

FCC Test Report

Product Name : 5G CPE
Trade Name : WNC
Model No. : FWAR
FCC ID : NKR-LAA2

Applicant : Wistron NeWeb Corporation

Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan

Date of Receipt : Nov. 16, 2020
Issued Date : Dec. 09, 2020
Report No. : 20B0401R-E3032110113
Report Version : V1.0



The test results relate only to the samples tested.

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Test Report Certification

Issued Date : Dec. 09, 2020

Report No.: 20B0401R-E3032110113



Product Name : 5G CPE
 Applicant : Wistron NeWeb Corporation
 Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
 Manufacturer : Wistron NeWeb Corporation
 Address : 20 Park Avenue II, Hsinchu Science Park, Hsinchu 308, Taiwan
 Model No. : FWAR
 FCC ID : NKR-LAA2
 EUT Test Voltage : AC 100-240V / 50-60Hz
 Testing Voltage : AC 120V / 60Hz
 Trade Name : WNC
 Applicable Standard : FCC CFR Title 47 Part 15 Subpart C Section 15.247: 2019
 ANSI C63.10: 2013
 Laboratory Name : Hsin Chu Laboratory
 Address : No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu
 County 310, Taiwan, R.O.C.
 TEL: +886-3-582-8001 / FAX: +886-3-582-8958
 Test Result : Complied

Documented By :

(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By :

(Neil Yeh / Senior Engineer)

Approved By :

(Louis Hsu / Deputy Manager)

Revision History

| Version | Description | Issued Date |
|---------|-------------------------|---------------|
| V1.0 | Initial issue of report | Dec. 09, 2020 |
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Attachment 1: EUT Test Photographs

1. General Information

1.1. EUT Description

| | |
|--------------------|--|
| Product Name | 5G CPE |
| Trade Name | WNC |
| Model No. | FWAR |
| Frequency Range | 2412-2462MHz for 802.11b/g/n/ac/ax-20BW 2422-2452MHz for 802.11n/ac/ax-40BW |
| Number of channel | 802.11b/g/n/ac/ax-20MHz: 11; 802.11n/ac/ax-40MHz: 7 |
| Channel separation | 802.11b/g/n/ac/ax: 5 MHz |
| Type of Modulation | 802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n/ax: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) |
| Data Speed | 802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 300Mbps 802.11ac: up to 400Mbps, 802.11ax: up to 573.5Mbps |
| Antenna Type | Dipole Antenna |
| Antenna Gain | Refer to the table "Antenna List" |
| HW Version | 0.3.3 |
| SW Version | 0.16.06.1dbg |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Gain |
|-----|--------------|-----------------|----------------|---------|
| 1. | WNC | 95XKAC15.GDNDVZ | Dipole antenna | 3.36dBi |
| 2. | WNC | 95XKAC15.GDOVZ | Dipole antenna | |

| Accessories Information | |
|---|---|
| Power Adapter (1) (White/Black/Gray) | MFR: Delta, M/N: ADP-120VH D Input: AC 100-240V~2.5A, 50-60Hz Output: 20V, 6A Cable Out: Non-Shielded, 3.0m Power Cord: Non-Shielded, 1.8m |
| Power Adapter (2) (White/Black/Gray) | MFR: Delta, M/N: ADP-65JH HB Input: AC 100-240V~2.5A, 50-60Hz Output: 19V, 3.42A Cable Out: Non-Shielded, 3.0m Power Cord: Non-Shielded, 1.8m |

Channel List

IEEE 802.11b/g & IEEE 802.11n/ac/ax(20MHz)

| Working Frequency of Each Channel | | | | | | | |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 01 | 2412 MHz | 02 | 2417 MHz | 03 | 2422 MHz | 04 | 2427 MHz |
| 05 | 2432 MHz | 06 | 2437 MHz | 07 | 2442 MHz | 08 | 2447 MHz |
| 09 | 2452 MHz | 10 | 2457 MHz | 11 | 2462 MHz | - | - |

IEEE 802.11n/ac/ax(40MHz)

| Working Frequency of Each Channel | | | | | | | |
|-----------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 03 | 2422 MHz | 04 | 2427 MHz | 05 | 2432 MHz | 06 | 2437 MHz |
| 07 | 2442 MHz | 08 | 2447 MHz | 09 | 2452 MHz | - | - |

Note:

1. This device including 2.4GHz b/g/n/ac/ax and 5GHz a/n/ac/ax transmitting and receiving functions.
2. The EUT description is from the customer declaration.
3. This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:
 - 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
 - 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

1.2. Test Mode

| | |
|-----------|--|
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) Mode 2: Transmit Mode (ADP: ADP-65JH HB) |
|-----------|--|

| Test Items | Modulation | Channel | Antenna | Result |
|-----------------------------|------------|---------|---------|----------|
| Conducted Emission | 11g | 11 | 0+1 | Complies |
| Radiated Emission | 11g | 11 | 0+1 | Complies |
| Radiated Emission Band Edge | 11g | 11 | 0+1 | Complies |

Note:

This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

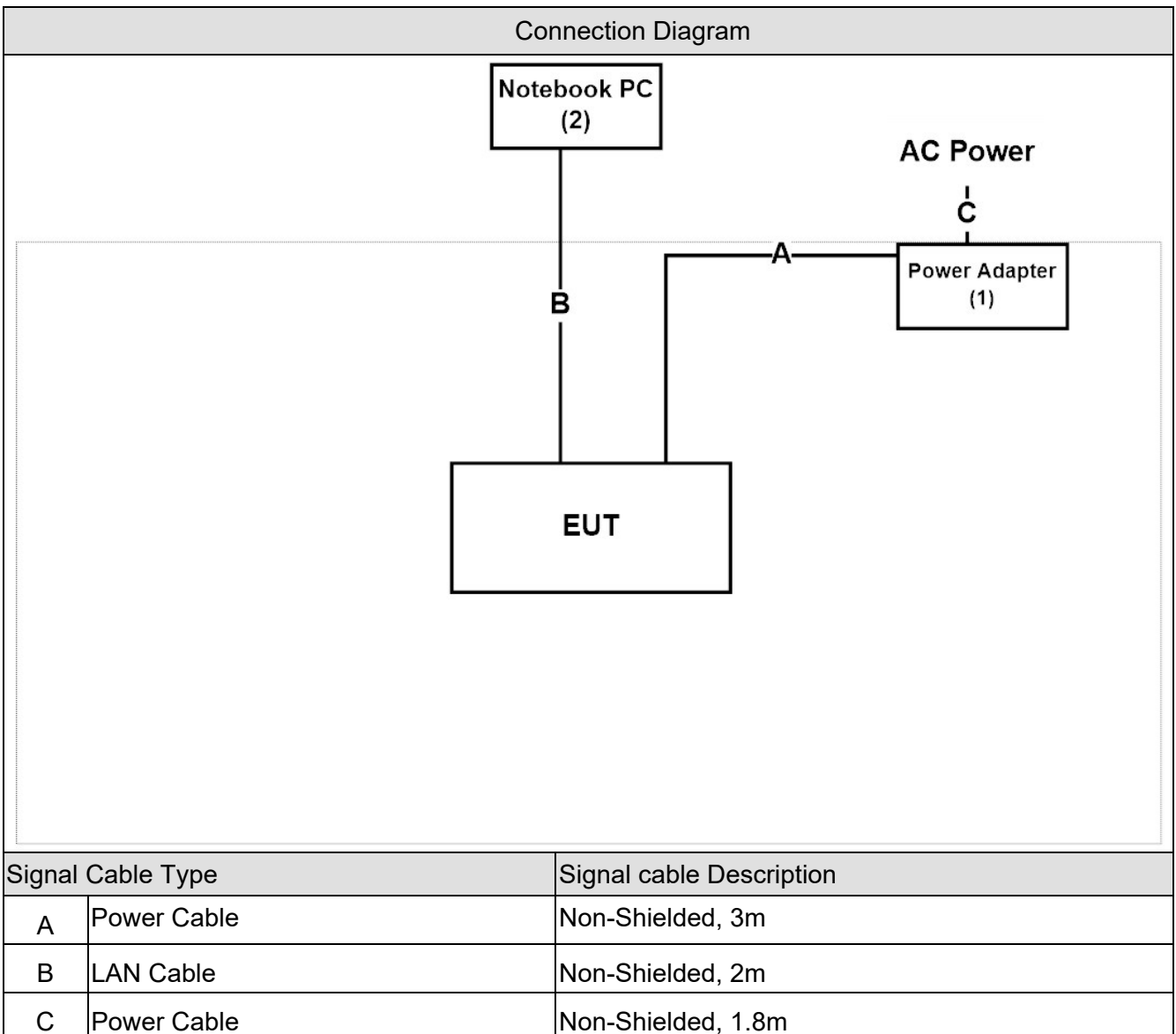
Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system are:

| Product | Manufacturer | Model No. | Serial No. | Power Cord |
|---------|---------------|-----------|-----------------------------|------------|
| 1 | Power Adapter | Delta | ADP-120VH D/ ADP-65JH HB | N/A |
| 2 | Notebook PC | DELL | Latitude 5501 | 9V4JL13 |

1.4. Configuration of tested System



1.5. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT as shown in Section 1.4. |
| 2 | Execute software "QSPR v5.0-00163" on the Notebook PC. |
| 3 | Configure the test mode, the test channel, and the data rate. |
| 4 | Press "OK" to start the continuous Transmit. |
| 5 | Verify that the EUT works properly. |

1.6. Comments and Remarks

The product specification and testing instructions for the EUT declared in the report are provided by the manufacturer who will take all responsibilities for the accuracy.

1.7. Test Facility

Ambient conditions in the laboratory:

| Items | Test Item | Required | Test Site |
|------------------|-----------------------------|----------|-----------|
| Temperature (°C) | FCC PART 15 C 15.207 | 15 - 35 | 2 |
| Humidity (%RH) | Conducted Emission | 25 - 75 | |
| Temperature (°C) | FCC PART 15 C 15.247 | 15 - 35 | 1 |
| Humidity (%RH) | Radiated Emission | 25 - 75 | |
| Temperature (°C) | FCC PART 15 C 15.247 | 15 - 35 | 1 |
| Humidity (%RH) | Radiated Emission Band Edge | 25 - 75 | |

Note: Test site information refers to Laboratory Information.

Laboratory Information

| | | |
|---------------|----------|--|
| USA | : | FCC Registration Number: TW3024 |
| Canada | : | IC Registration Number: 22397-1 / 22397-2 / 22397-3 |

The address and introduction of DEKRA Testing and Certification Co., Ltd. laboratories can be founded in our Web site: <http://www.dekra.com.tw>

If you have any comments, please don't hesitate to contact us. Our test sites as below:

| | |
|-----------------|--|
| Test Laboratory | DEKRA Testing and Certification Co., Ltd. |
| Address | 1. No.372, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. 2. No.372-2, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County 31061, Taiwan, R.O.C. |
| Phone number | 1. +886-3-582-8001 2. +886-3-582-8001 |
| Fax number | 1. +886-3-582-8958 2. +886-3-582-8958 |
| Email address | info.tw@dekra.com |
| Website | http://www.dekra.com.tw |

1.8. List of Test Equipment

Conducted Emission / SR2-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|--------------------------|--------------|-----------|------------|------------|----------------|
| Artificial Mains Network | R&S | ENV4200 | 848411/010 | 2020/01/08 | 2021/01/07 |
| Test Receiver | R&S | ESCS 30 | 836858/022 | 2020/02/25 | 2021/02/24 |
| LISN | R&S | ENV216 | 100092 | 2020/06/22 | 2021/06/21 |

Radiated Emission / CB2-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|----------------------------|---------------|-------------|------------|------------|----------------|
| Signal Analyzer | R&S | FSVA40 | 101455 | 2020/10/12 | 2021/10/11 |
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Bilog Antenna | Teseq | CBL6112D | 23191 | 2020/06/12 | 2021/06/11 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 639 | 2020/06/04 | 2021/06/03 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 202 | 2019/12/27 | 2020/12/26 |
| Pre-Amplifier | DEKRA | AP-025C | 12183122 | 2020/09/03 | 2021/09/02 |
| Pre-Amplifier | EMCI | EMC11830I | 980366 | 2020/11/30 | 2021/11/29 |
| Pre-Amplifier | DEKRA | AP-400C | 201801231 | 2019/12/03 | 2020/12/02 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 01656 | 2020/10/14 | 2021/10/13 |
| Band Reject Filter | Micro-Tronics | BRM50702 | G192 | 2020/03/09 | 2021/03/08 |
| Signal Analyzer | R&S | FSV40 | 101435 | 2020/06/24 | 2021/06/23 |
| Coaxial Cable(13m) | Huber+Suhner | SF104 | CB2-H | 2020/07/25 | 2021/07/24 |
| DEKRA Testing System | DEKRA | Version 1.2 | CB2-H | NA | NA |

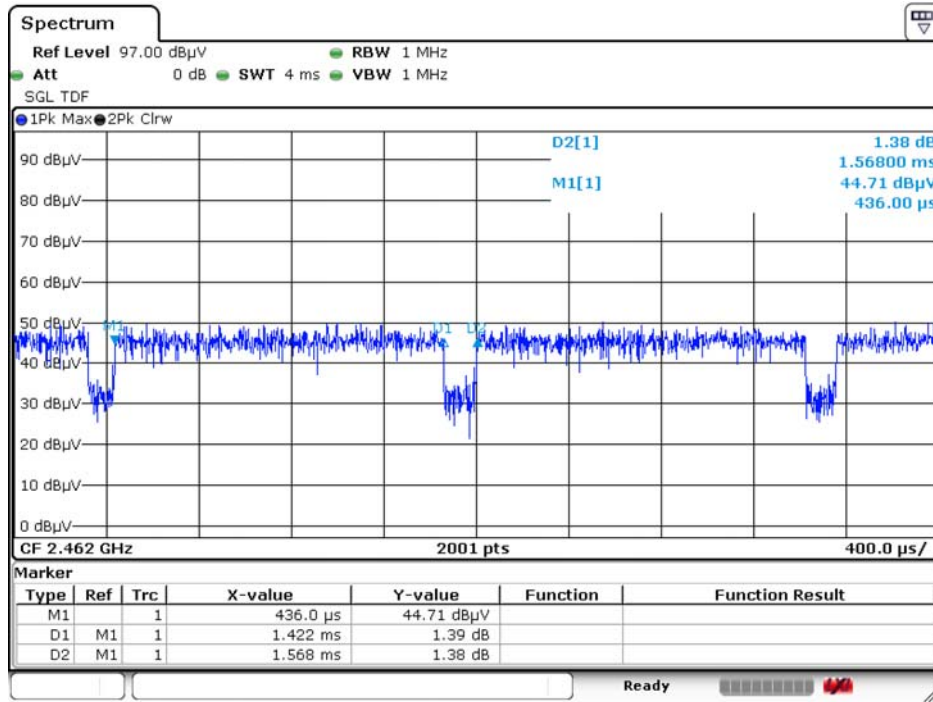
Radiated Emission Band Edge / CB2-H

| Instrument | Manufacturer | Model No. | Serial No. | Cal. Date | Next Cal. Date |
|----------------------------|---------------|-------------|------------|------------|----------------|
| Signal Analyzer | R&S | FSVA40 | 101455 | 2020/10/12 | 2021/10/11 |
| Signal & Spectrum Analyzer | R&S | FSV40 | 101049 | 2020/03/30 | 2021/03/29 |
| EXA Signal Analyzer | Keysight | N9010A | MY51440132 | 2020/02/21 | 2021/02/20 |
| Bilog Antenna | Teseq | CBL6112D | 23191 | 2020/06/12 | 2021/06/11 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 639 | 2020/06/04 | 2021/06/03 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 202 | 2019/12/27 | 2020/12/26 |
| Pre-Amplifier | DEKRA | AP-025C | 12183122 | 2020/09/03 | 2021/09/02 |
| Pre-Amplifier | EMCI | EMC11830I | 980366 | 2020/11/30 | 2021/11/29 |
| Pre-Amplifier | DEKRA | AP-400C | 201801231 | 2019/12/03 | 2020/12/02 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 01656 | 2020/10/14 | 2021/10/13 |
| Band Reject Filter | Micro-Tronics | BRM50702 | G192 | 2020/03/09 | 2021/03/08 |
| Signal Analyzer | R&S | FSV40 | 101435 | 2020/06/24 | 2021/06/23 |
| Coaxial Cable(13m) | Huber+Suhner | SF104 | CB2-H | 2020/07/25 | 2021/07/24 |
| DEKRA Testing System | DEKRA | Version 1.2 | CB2-H | NA | NA |

Note: All equipment upon which need to calibrated are with calibration period of 1 year.

1.9. Duty Cycle

| Mode | On Time (ms) | On+Off Time (ms) | Duty Cycle (%) | Duty Factor(dB) linear voltage | Duty Factor(dB) Power | 1/T Minimum VBW (kHz) |
|------|--------------|------------------|----------------|--------------------------------|-----------------------|-----------------------|
| 11G | 1.422 | 1.568 | 90.69% | 0.848929 | 0.42 | 0.703 |



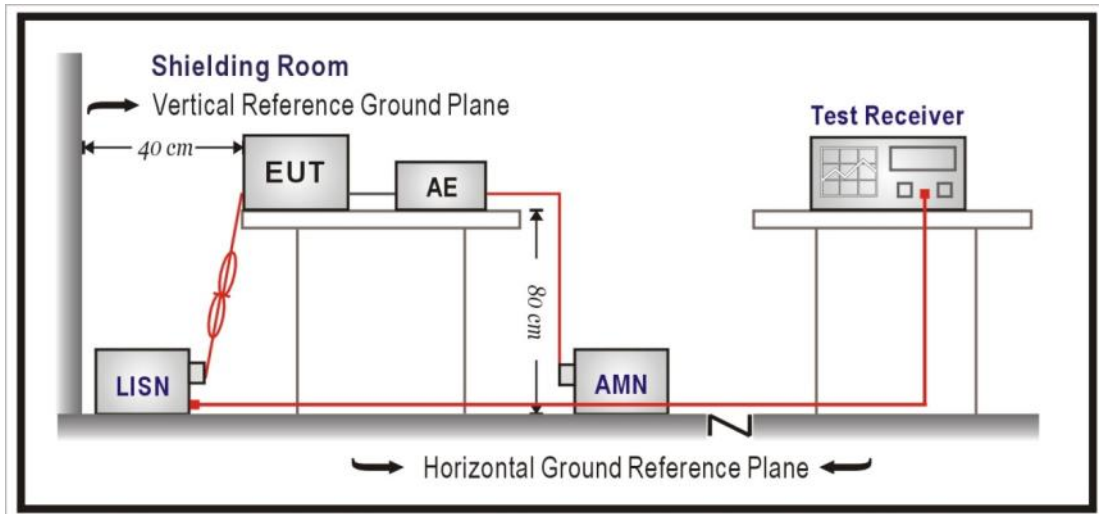
Date: 19.NOV.2020 06:29:31

1.10. Uncertainty

| Test item | Uncertainty |
|-----------------------------|--|
| Conducted Emission | ± 2.26 dB |
| Radiated Emission | 30MHz~1GHz as ±3.43 dB 1GHz~26.5GHz as ±3.65 dB |
| Radiated Emission Band Edge | ± 3.9 dB |

2. Conducted Emission

2.1. Test Setup



2.2. Limits

| FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV) | | |
|--|---------|---------|
| Frequency (MHz) | QP | AV |
| 0.15 - 0.50 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

The EUT was setup according to ANSI C63.4: 2013 and tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)

Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

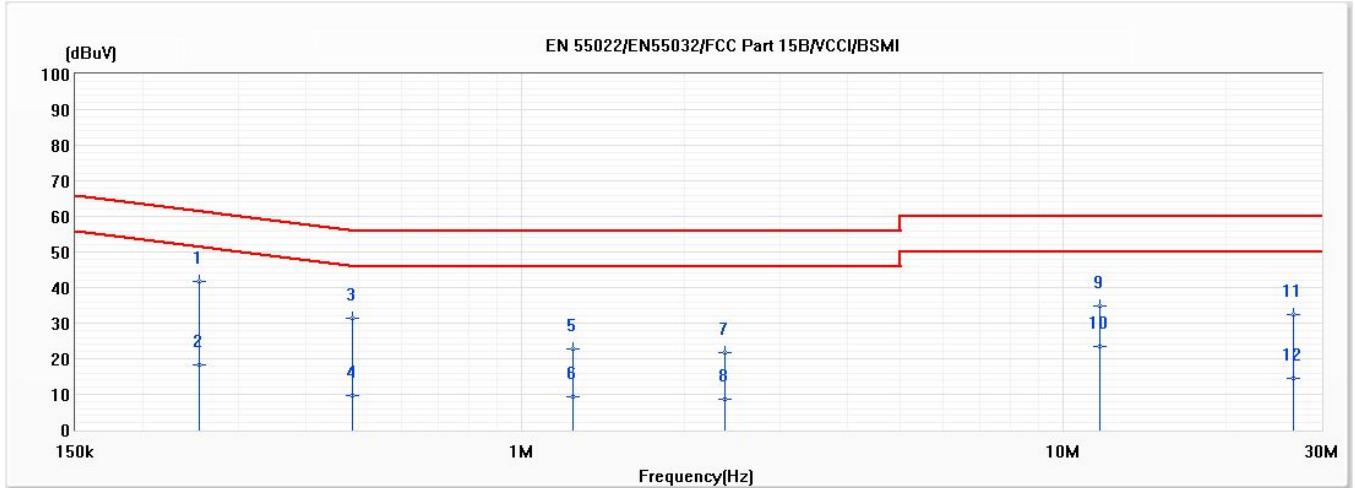
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.207: 2019

2.5. Test Result

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | SR2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Neil Yeh |
| Phase | L | Temperature (°C) | 22.3 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 60 |

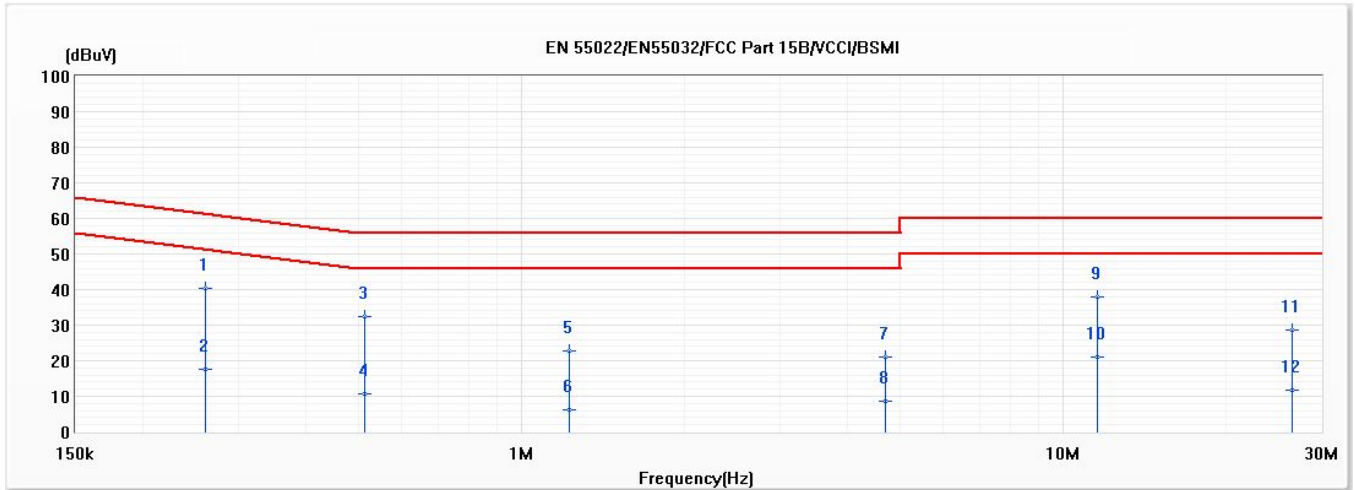


| No | Frequency (MHz) | Emission Level (dBuV) | Limit (dBuV) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|----|-----------------|-----------------------|--------------|-------------|----------------------|---------------------|---------------|
| *1 | 0.254 | 41.62 | 61.64 | -20.02 | 31.96 | 9.65 | QP |
| 2 | 0.254 | 18.30 | 51.64 | -33.33 | 8.65 | 9.65 | AV |
| 3 | 0.488 | 31.35 | 56.20 | -24.85 | 21.66 | 9.69 | QP |
| 4 | 0.488 | 9.66 | 46.20 | -36.55 | -0.03 | 9.69 | AV |
| 5 | 1.246 | 22.73 | 56.00 | -33.27 | 12.98 | 9.75 | QP |
| 6 | 1.246 | 9.32 | 46.00 | -36.68 | -0.43 | 9.75 | AV |
| 7 | 2.371 | 21.59 | 56.00 | -34.41 | 11.78 | 9.80 | QP |
| 8 | 2.371 | 8.47 | 46.00 | -37.53 | -1.34 | 9.80 | AV |
| 9 | 11.688 | 34.94 | 60.00 | -25.06 | 24.77 | 10.16 | QP |
| 10 | 11.688 | 23.56 | 50.00 | -26.44 | 13.39 | 10.16 | AV |
| 11 | 26.566 | 32.55 | 60.00 | -27.45 | 22.10 | 10.45 | QP |
| 12 | 26.566 | 14.41 | 50.00 | -35.59 | 3.97 | 10.45 | AV |

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | SR2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Neil Yeh |
| Phase | N | Temperature (°C) | 22.3 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 60 |

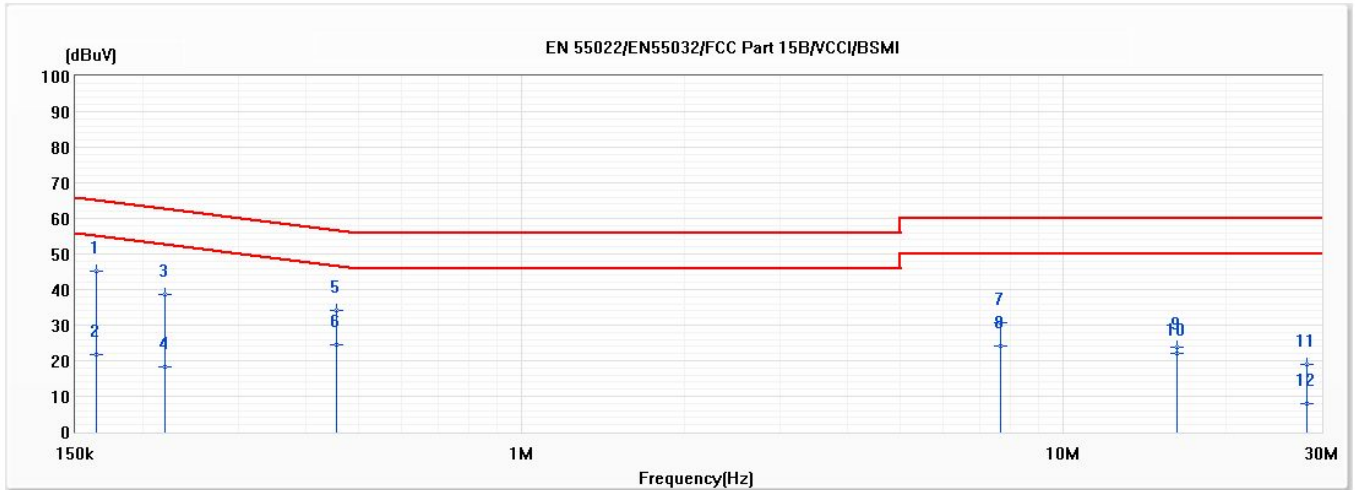


| No | Frequency (MHz) | Emission Level (dBuV) | Limit (dBuV) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|----|-----------------|-----------------------|--------------|-------------|----------------------|---------------------|---------------|
| *1 | 0.261 | 40.40 | 61.41 | -21.02 | 30.75 | 9.64 | QP |
| 2 | 0.261 | 17.64 | 51.41 | -33.77 | 8.00 | 9.64 | AV |
| 3 | 0.512 | 32.30 | 56.00 | -23.70 | 22.62 | 9.68 | QP |
| 4 | 0.512 | 10.52 | 46.00 | -35.48 | 0.84 | 9.68 | AV |
| 5 | 1.225 | 22.69 | 56.00 | -33.31 | 12.96 | 9.73 | QP |
| 6 | 1.225 | 6.37 | 46.00 | -39.63 | -3.36 | 9.73 | AV |
| 7 | 4.698 | 21.04 | 56.00 | -34.96 | 11.12 | 9.92 | QP |
| 8 | 4.698 | 8.47 | 46.00 | -37.53 | -1.45 | 9.92 | AV |
| 9 | 11.553 | 38.08 | 60.00 | -21.92 | 27.88 | 10.20 | QP |
| 10 | 11.553 | 20.91 | 50.00 | -29.09 | 10.71 | 10.20 | AV |
| 11 | 26.469 | 28.58 | 60.00 | -31.42 | 17.92 | 10.67 | QP |
| 12 | 26.469 | 11.72 | 50.00 | -38.28 | 1.05 | 10.67 | AV |

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | SR2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 2: Transmit Mode (ADP: ADP-65JH HB) | Engineer | Neil Yeh |
| Phase | L | Temperature (°C) | 22.3 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 60 |

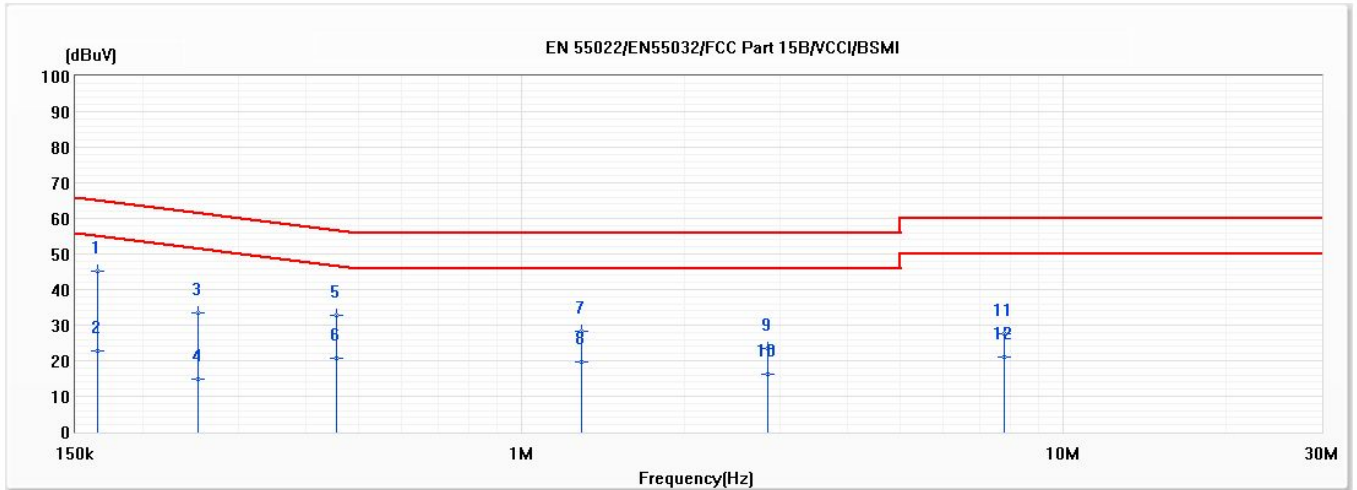


| No | Frequency (MHz) | Emission Level (dBuV) | Limit (dBuV) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|----|-----------------|-----------------------|--------------|-------------|----------------------|---------------------|---------------|
| *1 | 0.164 | 45.23 | 65.27 | -20.05 | 35.58 | 9.65 | QP |
| 2 | 0.164 | 21.81 | 55.27 | -33.47 | 12.16 | 9.65 | AV |
| 3 | 0.219 | 38.55 | 62.86 | -24.31 | 28.90 | 9.65 | QP |
| 4 | 0.219 | 18.36 | 52.86 | -34.50 | 8.71 | 9.65 | AV |
| 5 | 0.454 | 34.22 | 56.80 | -22.58 | 24.53 | 9.68 | QP |
| 6 | 0.454 | 24.33 | 46.80 | -22.47 | 14.64 | 9.68 | AV |
| 7 | 7.664 | 30.70 | 60.00 | -29.30 | 20.66 | 10.03 | QP |
| 8 | 7.664 | 24.12 | 50.00 | -25.88 | 14.08 | 10.03 | AV |
| 9 | 16.228 | 23.78 | 60.00 | -36.22 | 13.49 | 10.29 | QP |
| 10 | 16.228 | 22.19 | 50.00 | -27.81 | 11.91 | 10.29 | AV |
| 11 | 28.210 | 18.87 | 60.00 | -41.13 | 8.41 | 10.46 | QP |
| 12 | 28.210 | 7.88 | 50.00 | -42.12 | -2.59 | 10.46 | AV |

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | SR2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 2: Transmit Mode (ADP: ADP-65JH HB) | Engineer | Neil Yeh |
| Phase | N | Temperature (°C) | 22.3 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 60 |



| No | Frequency (MHz) | Emission Level (dBuV) | Limit (dBuV) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|----|-----------------|-----------------------|--------------|-------------|----------------------|---------------------|---------------|
| *1 | 0.164 | 45.07 | 65.24 | -20.17 | 35.44 | 9.64 | QP |
| 2 | 0.164 | 22.62 | 55.24 | -32.62 | 12.98 | 9.64 | AV |
| 3 | 0.252 | 33.42 | 61.68 | -28.26 | 23.78 | 9.64 | QP |
| 4 | 0.252 | 14.75 | 51.68 | -36.94 | 5.10 | 9.64 | AV |
| 5 | 0.454 | 32.77 | 56.80 | -24.04 | 23.09 | 9.67 | QP |
| 6 | 0.454 | 20.76 | 46.80 | -26.05 | 11.08 | 9.67 | AV |
| 7 | 1.292 | 28.13 | 56.00 | -27.87 | 18.39 | 9.73 | QP |
| 8 | 1.292 | 19.73 | 46.00 | -26.27 | 9.99 | 9.73 | AV |
| 9 | 2.845 | 23.61 | 56.00 | -32.39 | 13.79 | 9.82 | QP |
| 10 | 2.845 | 16.11 | 46.00 | -29.89 | 6.29 | 9.82 | AV |
| 11 | 7.779 | 27.43 | 60.00 | -32.57 | 17.38 | 10.05 | QP |
| 12 | 7.779 | 20.99 | 50.00 | -29.01 | 10.94 | 10.05 | AV |

Remark:

1. "*" means this data is the worst emission level.
2. Emission Level = Reading Level + Correct Factor (Correct Factor = LISN Insertion Loss + Cable Loss).
3. Margin = Emission Level - Limit.

Note:

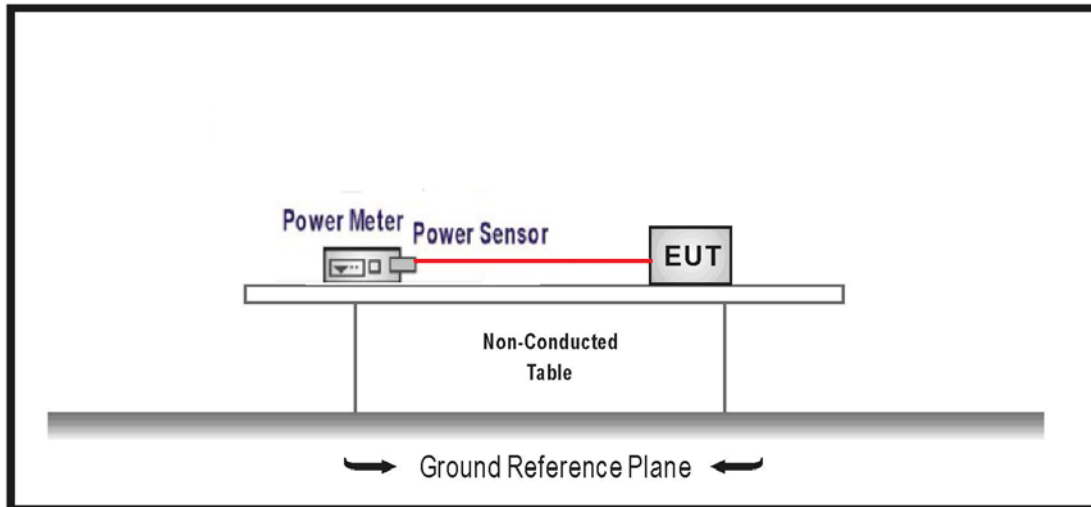
This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

3. Maximum peak conducted output power

3.1. Test Setup



3.2. Test procedures

The EUT was tested according to DTS test procedure section 8.3.1.3 of KDB 558074 D01 v05r02 & Subclause 11.9.1.3 of ANSI C63.10 Measurement to FCC 47CFR 15.247 requirements.

3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

3.5. Test Result

Note:

This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

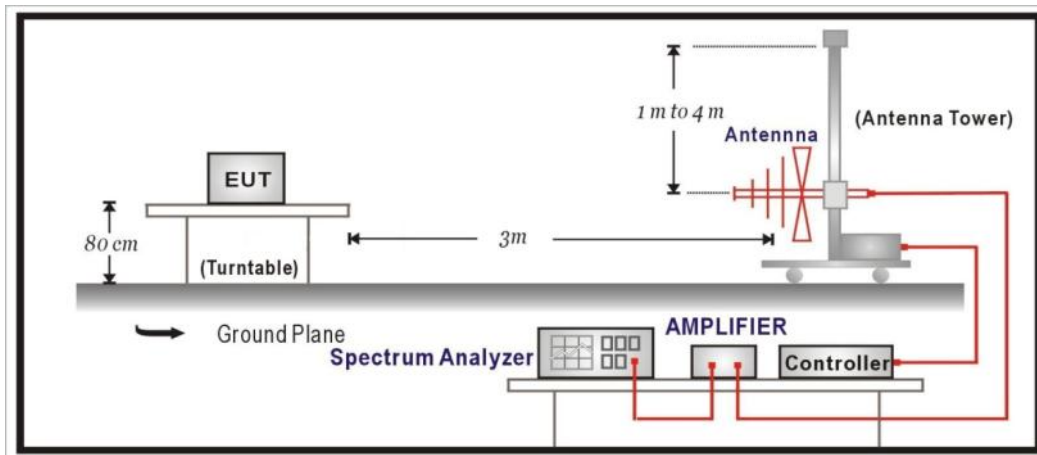
- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

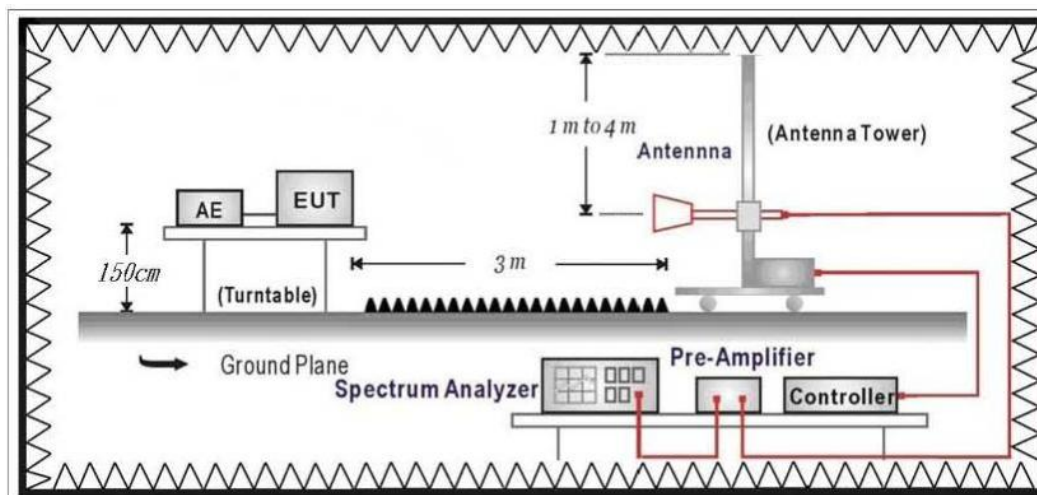
4. Radiated Emission

4.1. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|---|--------|--------|
| Frequency MHz | dBuV/m | dBuV/m |
| 30 - 88 | 100 | 40 |
| 88 - 216 | 150 | 43.5 |
| 216 - 960 | 200 | 46 |
| Above 960 | 500 | 54 |

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.3. Test Procedure

The EUT was setup according to ANSI C63.10:2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground (under 1GHz) or 1.5 meter above ground (above 1GHz). The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

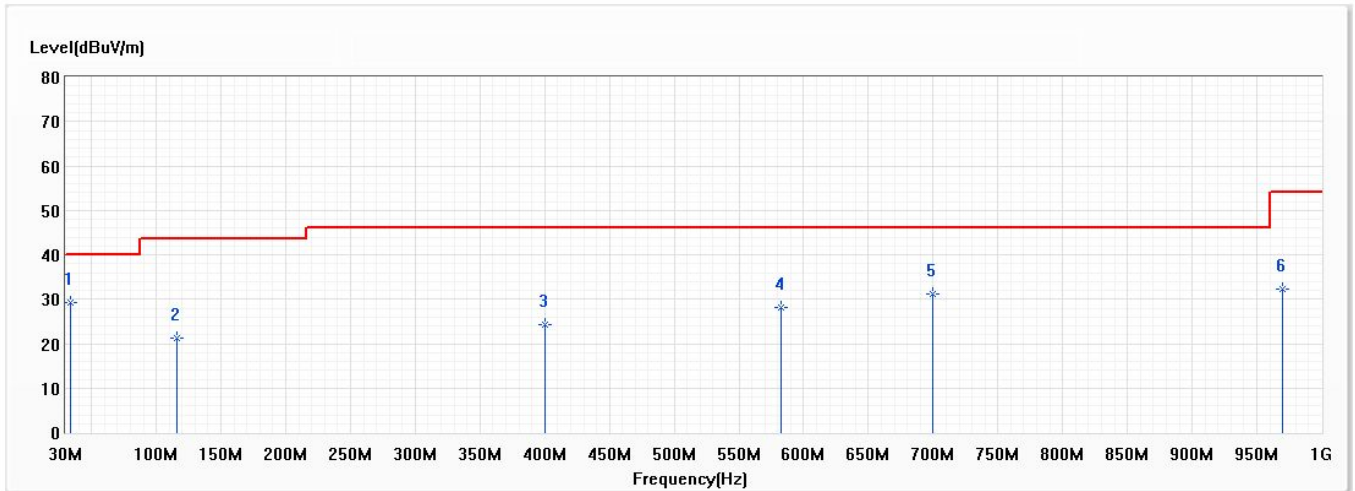
4.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

4.5. Test Result

30MHz-1GHz Spurious

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Horizontal | Temperature (°C) | 23.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

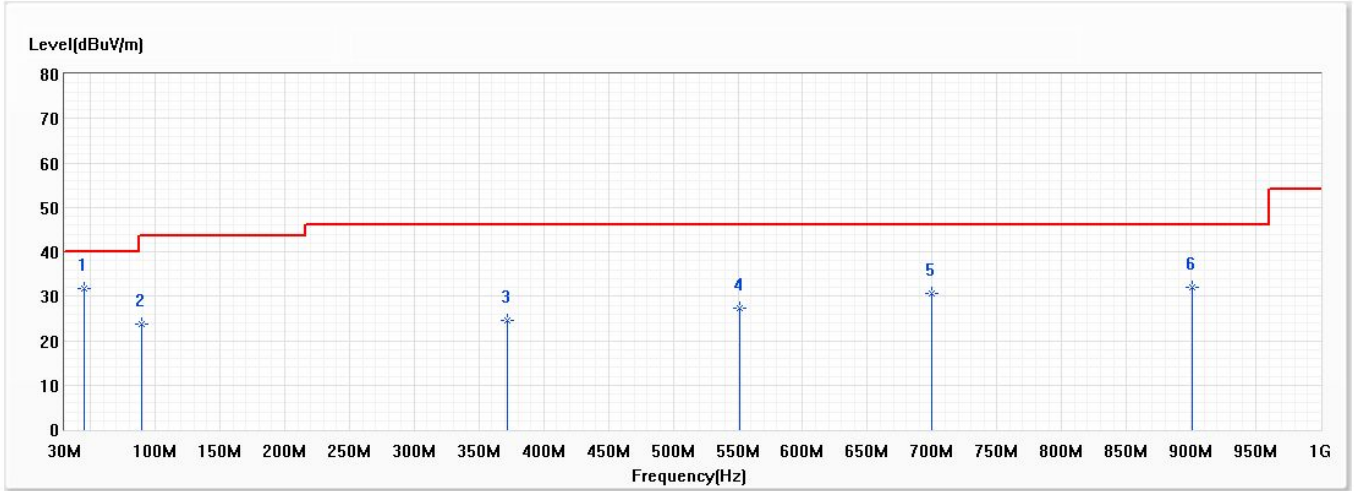


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| * 1 | 34.001 | 29.29 | 40.00 | -10.71 | 26.88 | 2.41 | QP |
| 2 | 115.603 | 21.35 | 43.50 | -22.15 | 24.00 | -2.65 | QP |
| 3 | 400.661 | 24.31 | 46.00 | -21.69 | 22.60 | 1.71 | QP |
| 4 | 582.779 | 28.19 | 46.00 | -17.81 | 23.20 | 4.99 | QP |
| 5 | 699.300 | 31.20 | 46.00 | -14.80 | 25.04 | 6.16 | QP |
| 6 | 969.809 | 32.38 | 54.00 | -21.62 | 23.17 | 9.21 | QP |

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Vertical | Temperature (°C) | 23.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

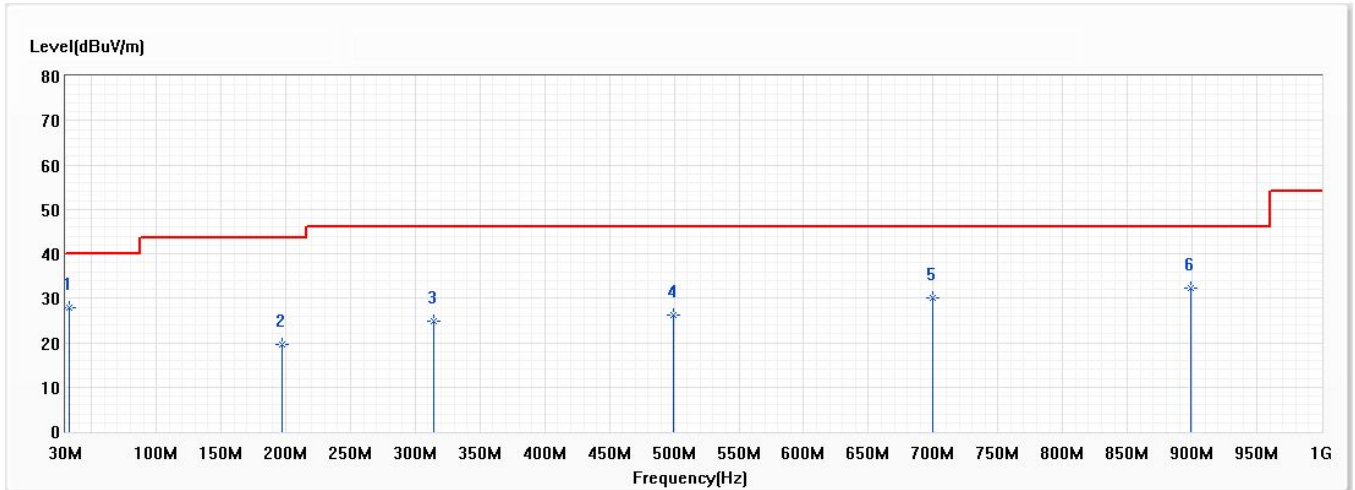


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| * 1 | 45.035 | 31.61 | 40.00 | -8.39 | 35.77 | -4.16 | QP |
| 2 | 89.898 | 23.84 | 43.50 | -19.66 | 30.47 | -6.63 | QP |
| 3 | 371.925 | 24.61 | 46.00 | -21.39 | 23.93 | 0.68 | QP |
| 4 | 551.011 | 27.32 | 46.00 | -18.68 | 22.78 | 4.54 | QP |
| 5 | 699.300 | 30.71 | 46.00 | -15.29 | 24.55 | 6.16 | QP |
| 6 | 900.454 | 31.98 | 46.00 | -14.02 | 23.54 | 8.44 | QP |

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 2: Transmit Mode (ADP: ADP-65JH HB) | Engineer | Ling Chen |
| Polarity | Horizontal | Temperature (°C) | 23.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

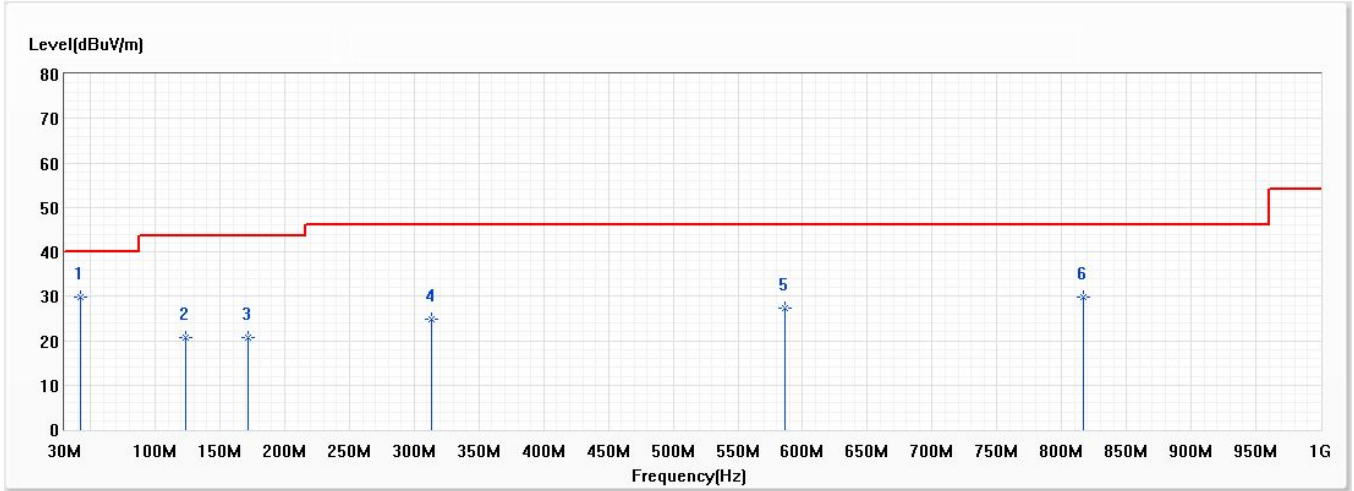


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| * 1 | 32.789 | 27.92 | 40.00 | -12.08 | 24.71 | 3.21 | QP |
| 2 | 196.719 | 19.66 | 43.50 | -23.84 | 25.15 | -5.49 | QP |
| 3 | 314.574 | 24.81 | 46.00 | -21.19 | 25.86 | -1.05 | QP |
| 4 | 499.844 | 26.13 | 46.00 | -19.87 | 22.90 | 3.23 | QP |
| 5 | 699.300 | 29.94 | 46.00 | -16.06 | 23.78 | 6.16 | QP |
| 6 | 898.756 | 32.30 | 46.00 | -13.70 | 23.88 | 8.42 | QP |

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/30 |
| Test Mode | Mode 2: Transmit Mode (ADP: ADP-65JH HB) | Engineer | Ling Chen |
| Polarity | Vertical | Temperature (°C) | 23.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |



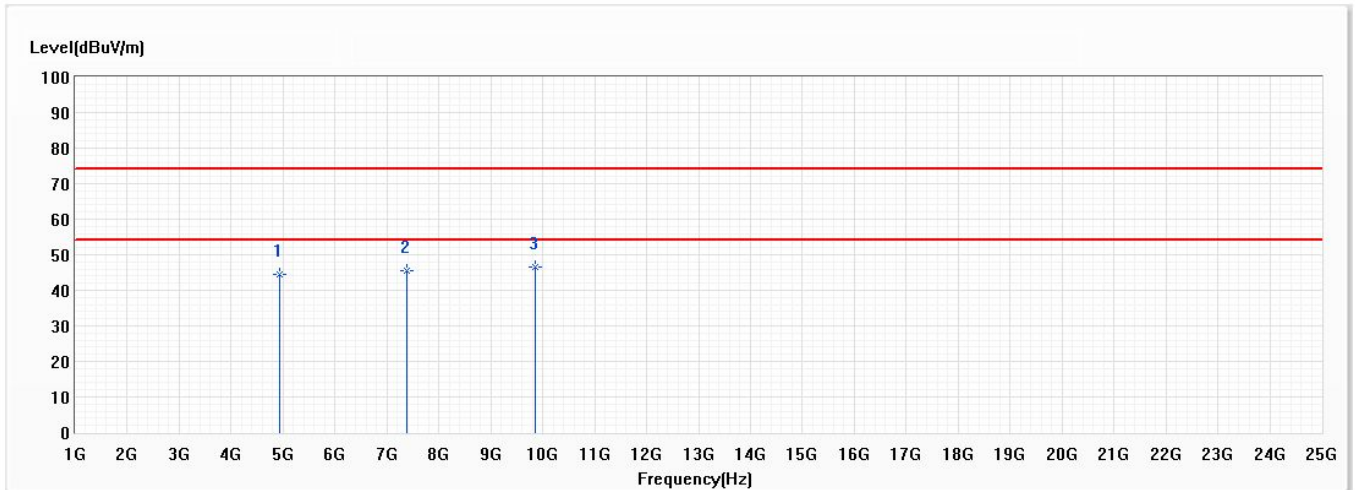
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| * 1 | 42.489 | 29.70 | 40.00 | -10.30 | 32.42 | -2.72 | QP |
| 2 | 123.726 | 20.72 | 43.50 | -22.78 | 23.01 | -2.29 | QP |
| 3 | 171.984 | 20.78 | 43.50 | -22.72 | 26.36 | -5.58 | QP |
| 4 | 312.998 | 24.75 | 46.00 | -21.25 | 25.80 | -1.05 | QP |
| 5 | 586.780 | 27.32 | 46.00 | -18.68 | 22.39 | 4.93 | QP |
| 6 | 816.670 | 29.92 | 46.00 | -16.08 | 22.83 | 7.09 | QP |

Note:

1. All reading levels is Quasi-Peak value.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor
4. The emission under 30MHz were not included is because their levels are lower than 20dB from limit.

Above 1GHz Spurious

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/25 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Horizontal | Temperature (°C) | 22.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

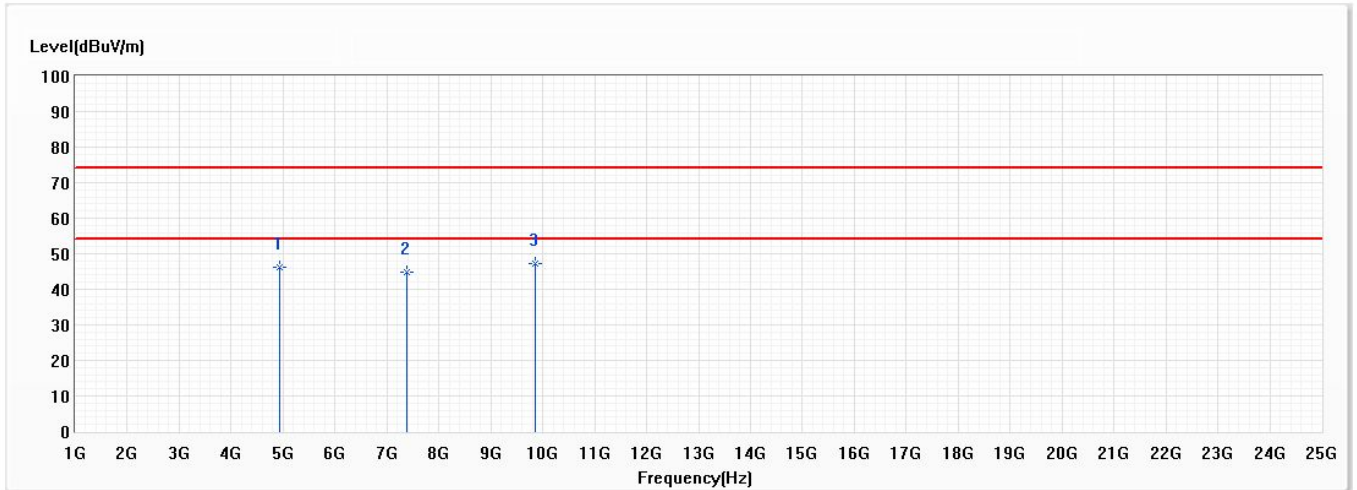


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| 1 | 4924.000 | 44.50 | 74.00 | -29.50 | 56.20 | -11.70 | PK |
| 2 | 7386.000 | 45.64 | 74.00 | -28.36 | 49.81 | -4.17 | PK |
| * 3 | 9848.000 | 46.55 | 74.00 | -27.45 | 47.77 | -1.22 | PK |

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/25 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Vertical | Temperature (°C) | 22.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |



| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| 1 | 4924.000 | 46.24 | 74.00 | -27.76 | 57.94 | -11.70 | PK |
| 2 | 7386.000 | 44.96 | 74.00 | -29.04 | 49.13 | -4.17 | PK |
| * 3 | 9848.000 | 47.10 | 74.00 | -26.90 | 48.32 | -1.22 | PK |

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. “ * ”, means this data is the worst value.
3. Emission Level = Reading Level + Correct Factor.
4. The average measurement was not performed when the peak measured data under the limit of average detection.
5. The emission above 13GHz were not included is because their levels are lower than 20dB form limit.

Note:

This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

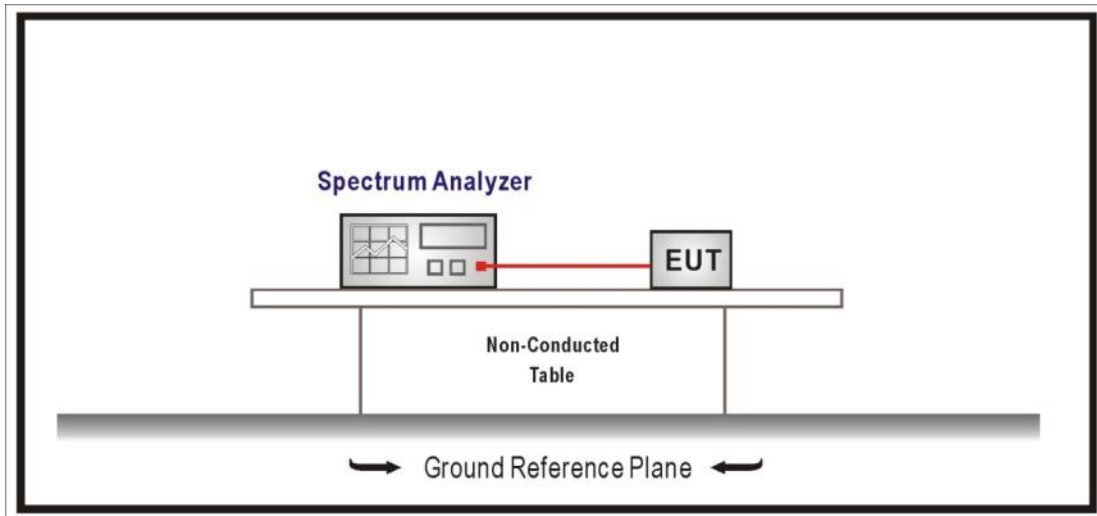
- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

5. RF antenna conducted test

5.1. Test Setup

RF Antenna Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

5.5. Test Result

Note:

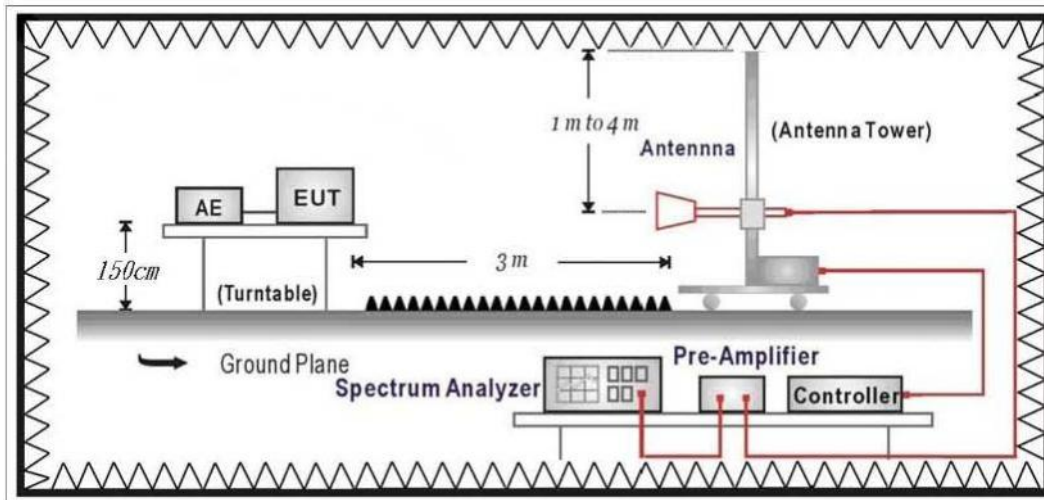
This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

6. Radiated Emission Band Edge

6.1. Test Setup



6.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

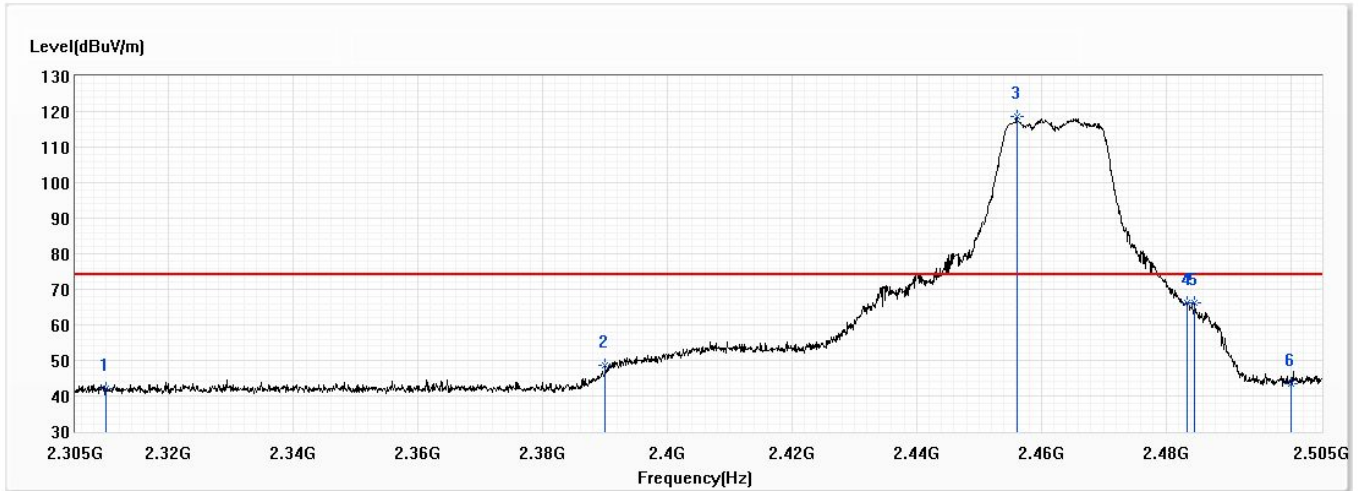
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

6.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

6.5. Test Result

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/25 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Horizontal | Temperature (°C) | 22.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

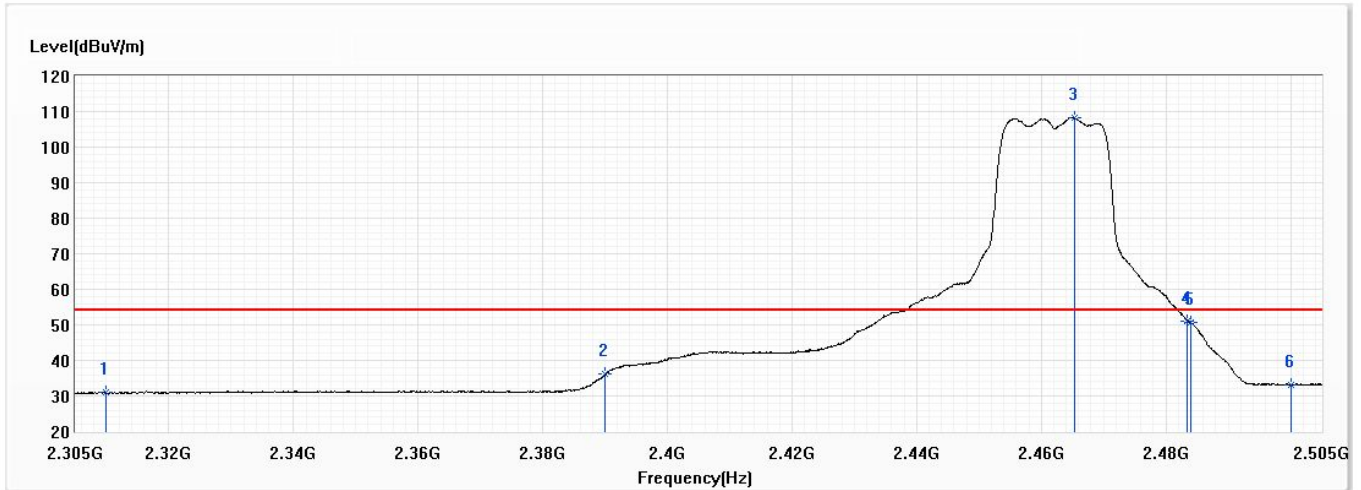


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| 1 | 2310.000 | 42.18 | 74.00 | -31.82 | 29.03 | 13.15 | PK |
| 2 | 2390.000 | 48.54 | 74.00 | -25.46 | 34.84 | 13.70 | PK |
| ! 3 | 2456.100 | 118.50 | 74.00 | 44.50 | 104.33 | 14.17 | PK |
| 4 | 2483.500 | 66.27 | 74.00 | -7.73 | 51.91 | 14.36 | PK |
| 5 | 2484.600 | 66.09 | 74.00 | -7.91 | 51.73 | 14.36 | PK |
| 6 | 2500.000 | 43.55 | 74.00 | -30.45 | 29.07 | 14.48 | PK |

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/25 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Horizontal | Temperature (°C) | 22.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

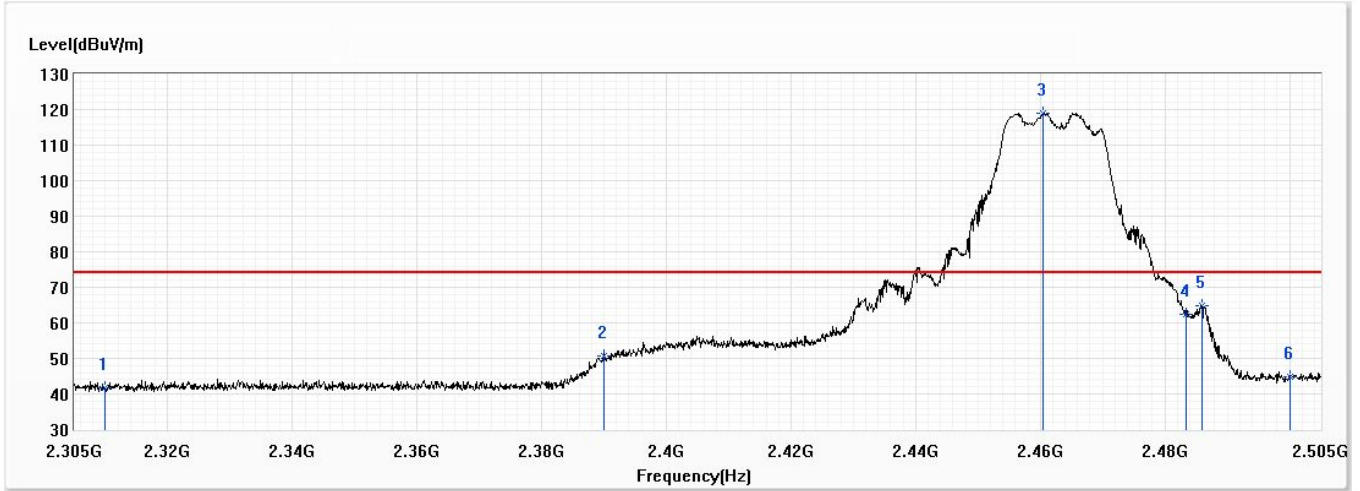


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| 1 | 2310.000 | 30.87 | 54.00 | -23.13 | 17.72 | 13.15 | AV |
| 2 | 2390.000 | 36.16 | 54.00 | -17.84 | 22.46 | 13.70 | AV |
| ! 3 | 2465.300 | 108.32 | 54.00 | 54.32 | 94.08 | 14.24 | AV |
| 4 | 2483.500 | 51.20 | 54.00 | -2.80 | 36.84 | 14.36 | AV |
| 5 | 2484.000 | 50.63 | 54.00 | -3.37 | 36.27 | 14.36 | AV |
| 6 | 2500.000 | 33.22 | 54.00 | -20.78 | 18.74 | 14.48 | AV |

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/25 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Vertical | Temperature (°C) | 22.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |

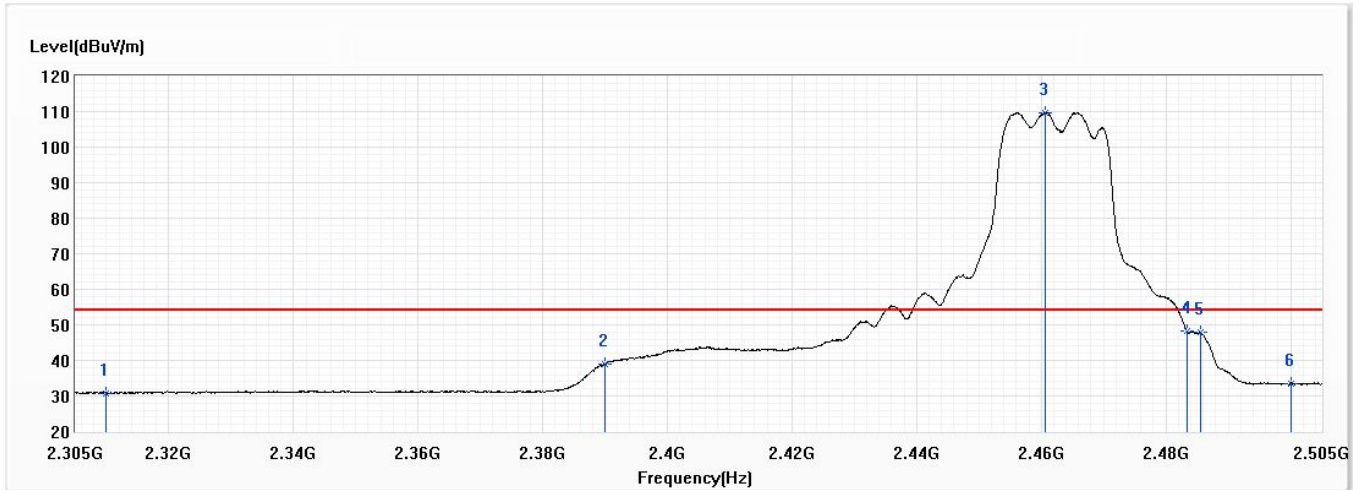


| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| 1 | 2310.000 | 41.80 | 74.00 | -32.20 | 28.65 | 13.15 | PK |
| 2 | 2390.000 | 50.81 | 74.00 | -23.19 | 37.11 | 13.70 | PK |
| ! 3 | 2460.500 | 118.86 | 74.00 | 44.86 | 104.66 | 14.20 | PK |
| 4 | 2483.500 | 62.41 | 74.00 | -11.59 | 48.05 | 14.36 | PK |
| 5 | 2486.000 | 64.80 | 74.00 | -9.20 | 50.42 | 14.38 | PK |
| 6 | 2500.000 | 44.96 | 74.00 | -29.04 | 30.48 | 14.48 | PK |

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.

| | | | |
|----------------|--|------------------|------------|
| Model No | FWAR | Site | CB2-H |
| Test Voltage | AC 120V/60Hz | Test Date | 2020/11/25 |
| Test Mode | Mode 1: Transmit Mode (ADP: ADP-120VH D) | Engineer | Ling Chen |
| Polarity | Vertical | Temperature (°C) | 22.0 |
| Test Condition | 802.11g-CDD-2462MHz | Humidity (%RH) | 55.0 |



| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Reading Level (dBuV) | Correct Factor (dB) | Detector Type |
|-----|-----------------|-------------------------|----------------|-------------|----------------------|---------------------|---------------|
| 1 | 2310.000 | 30.69 | 54.00 | -23.31 | 17.54 | 13.15 | AV |
| 2 | 2390.000 | 38.93 | 54.00 | -15.07 | 25.23 | 13.70 | AV |
| ! 3 | 2460.700 | 109.75 | 54.00 | 55.75 | 95.55 | 14.20 | AV |
| 4 | 2483.500 | 48.26 | 54.00 | -5.74 | 33.90 | 14.36 | AV |
| 5 | 2485.500 | 47.90 | 54.00 | -6.10 | 33.52 | 14.38 | AV |
| 6 | 2500.000 | 33.36 | 54.00 | -20.64 | 18.88 | 14.48 | AV |

Note:

1. All reading above 1GHz is performed with peak and/or average measurements as necessary.
2. Emission Level = Reading Level + Correct Factor.
3. The fundamental for reference only, it's not restricted by unwanted emission limit.

Note:

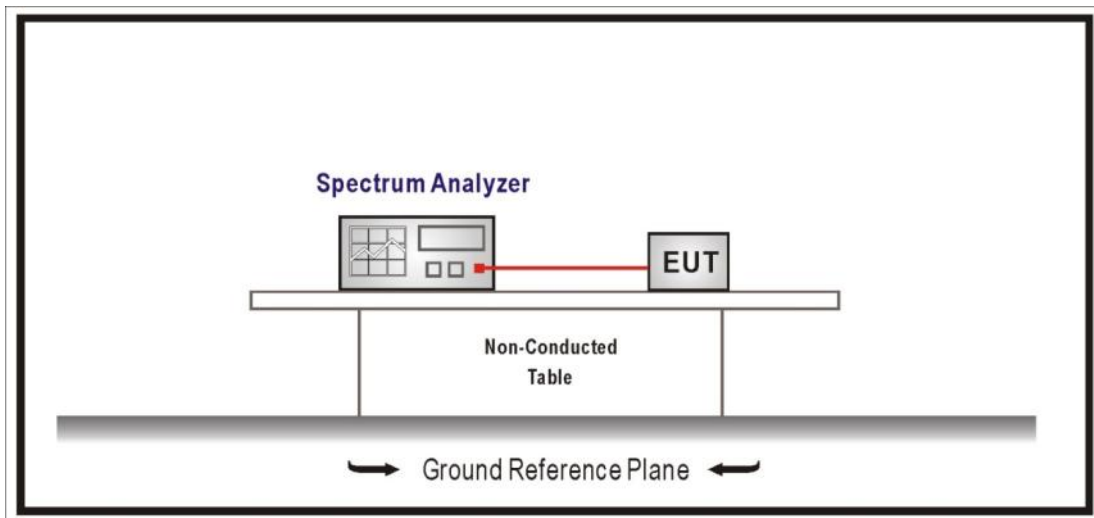
This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

7. DTS Bandwidth

7.1. Test Setup



7.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested procedure section 8.1 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100KHz, Set the $VBW \geq 3 \times RBW$, Sweep Time=Auto, Set Peak Detector.

7.3. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

7.5. Test Result

Note:

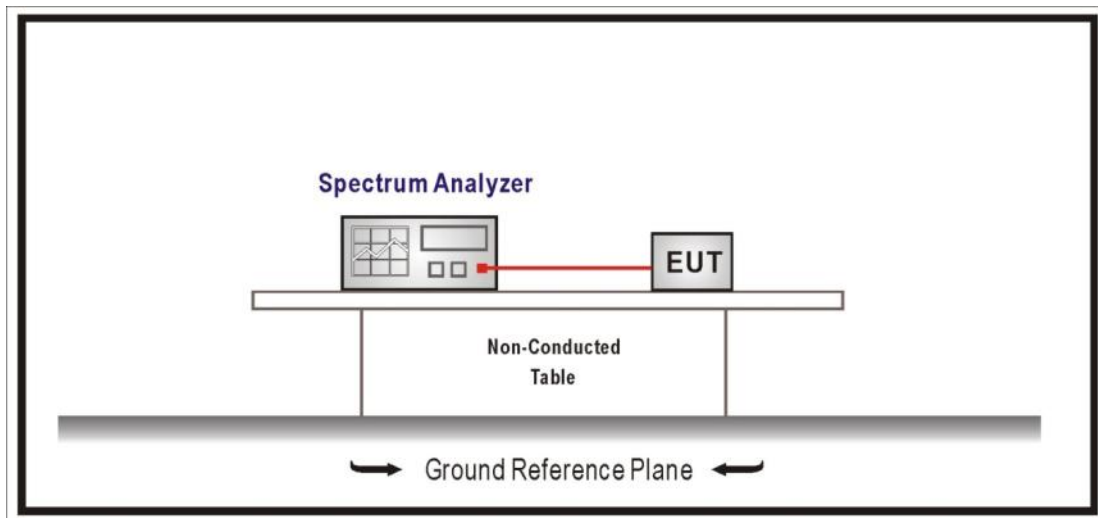
This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

8. Occupied Bandwidth

8.1. Test Setup



8.2. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the OBW, Set the $VBW \geq 3 \times RBW$, Sweep Time=Auto.

8.3. Limits

N/A

8.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

8.5. Test Result

Note:

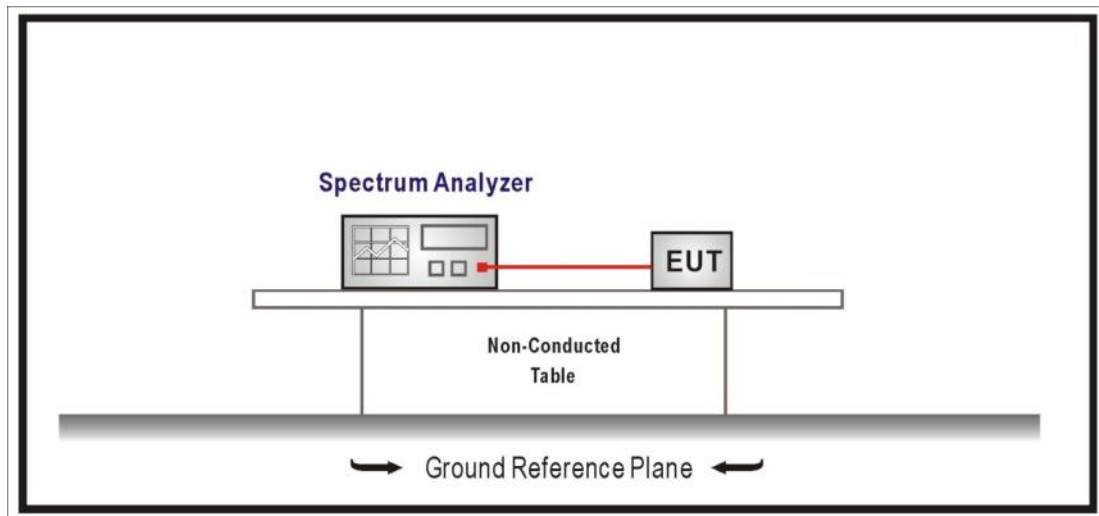
This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.

9. Power Density

9.1. Test Setup



9.2. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedures

The EUT was setup according to ANSI C63.10: 2013; tested according to DTS test procedure section 10.2 of KDB 558074 D01 v05r02 for compliance to FCC 47CFR 15.247 requirements.

Set 3KHz \leq RBW \leq 100 kHz, Set VBW \geq 3xRBW, Sweep time=Auto, Set Peak detector.

9.4. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2019

9.5. Test Result

Note:

This report is prepared for Class II permissive change. The difference compared with original report no.: 2050962R-E3032110114 is housing and software. The software changes as following:

- 1) Add LTE band 4, band 12, band 14, band 29 and close band 13 by software.
- 2) Close 5G FR2 band n261 by software.

According to above conditions, Conducted Emission, Radiated Emission and Radiated Emission Band Edge worst-case need to be performed and all data were verified to meet the requirements, and other test data refer to original report.