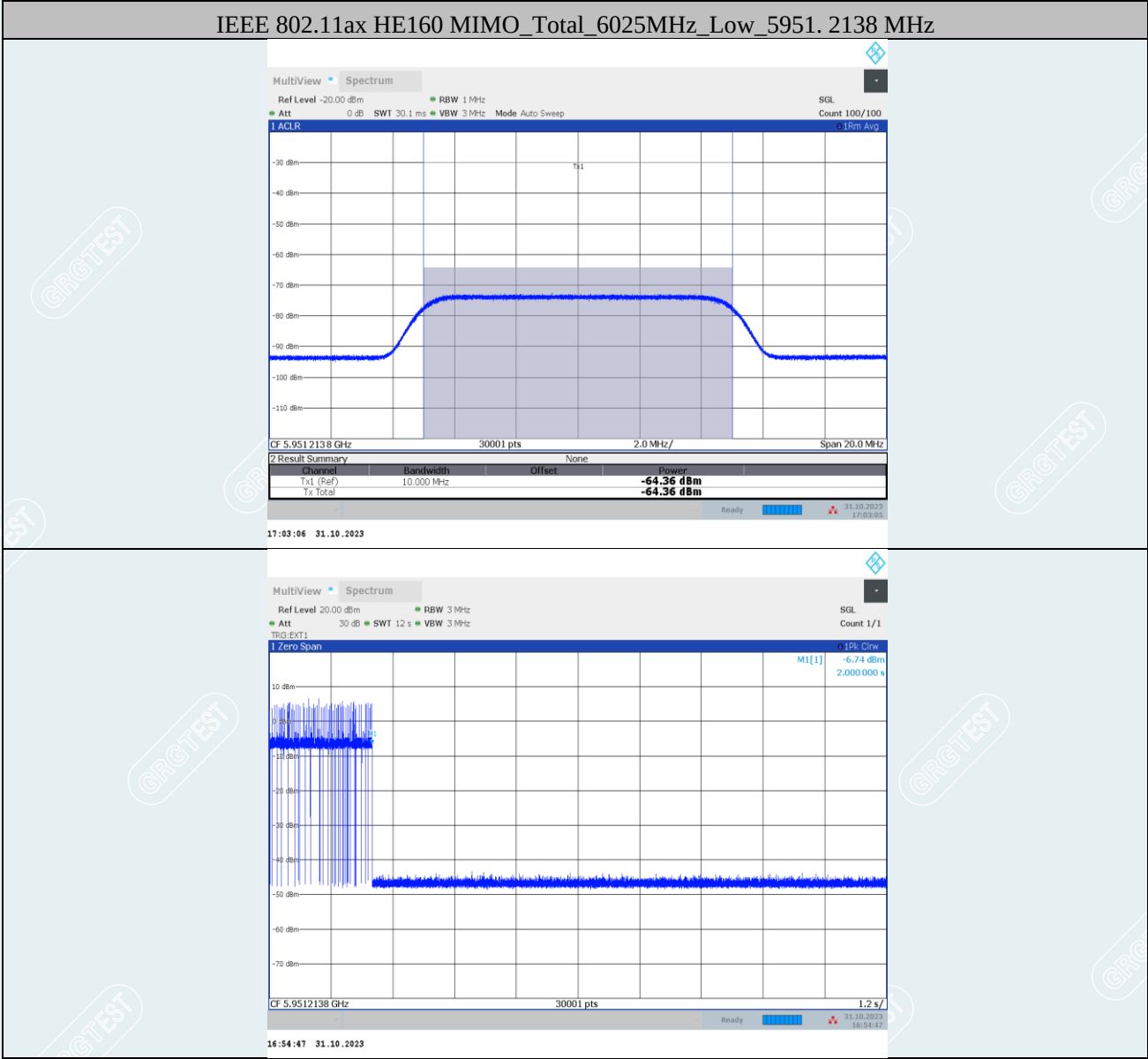


| Frequency [MHz] | Interference Frequency [MHz] | 1         | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Detection Rate [%] | Detection Rate Limit[%] | Verdict |
|-----------------|------------------------------|-----------|---|---|---|---|---|---|---|---|----|--------------------|-------------------------|---------|
| 6025            | Low                          | 5951.2138 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 90                 | 90                      | PASS    |
|                 | Center                       | 6025      | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  | 90                 | 90                      | PASS    |
|                 | High                         | 6098.8715 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 90                      | PASS    |
| 6505            | Low                          | 6429.9205 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 90                      | PASS    |
|                 | Center                       | 6505      | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 90                 | 90                      | PASS    |
|                 | High                         | 6578.2457 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  | 90                 | 90                      | PASS    |
| 6665            | Low                          | 6590.7605 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1  | 90                 | 90                      | PASS    |
|                 | Center                       | 6665      | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1  | 90                 | 90                      | PASS    |
|                 | High                         | 6738.8167 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1  | 90                 | 90                      | PASS    |
| 6985            | Low                          | 6909.6142 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 90                      | PASS    |
|                 | Center                       | 6985      | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 90                      | PASS    |
|                 | High                         | 7058.4510 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1  | 100                | 90                      | PASS    |

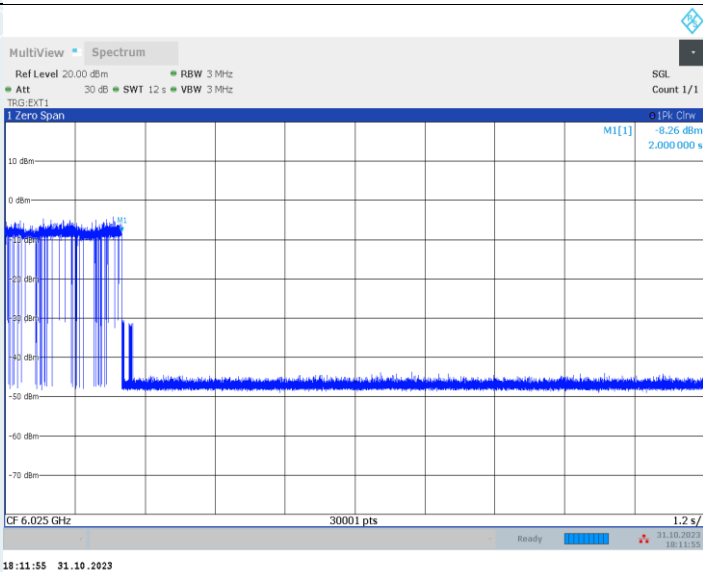
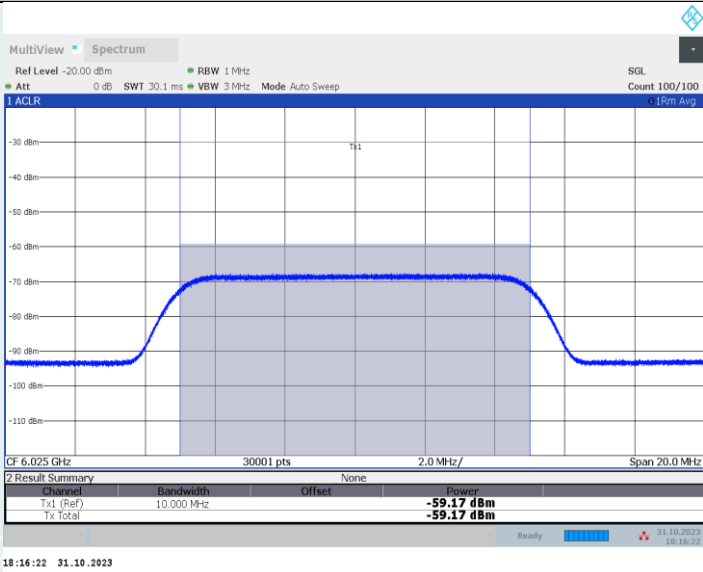
Note: Contention-based protocol Detection Trials(1=Detection, 0=No Detection)

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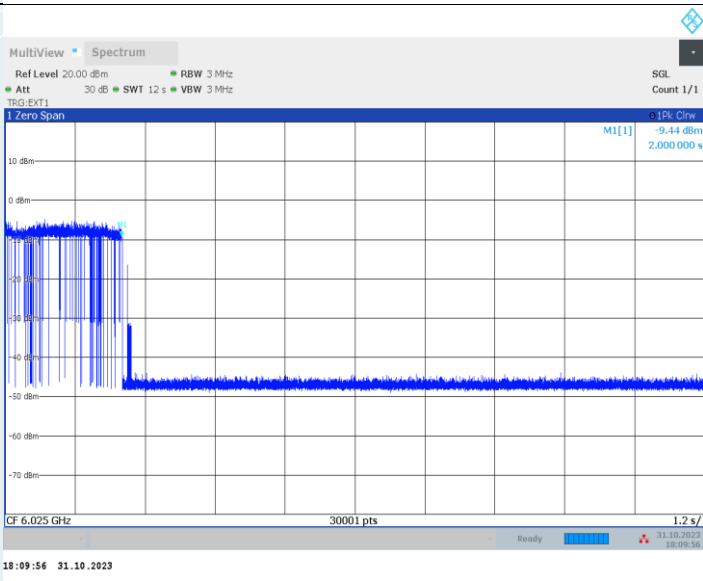
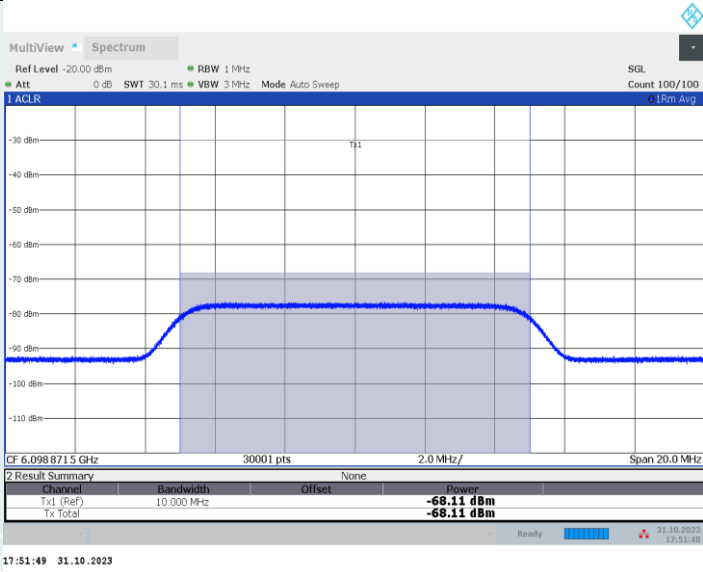
Test Graphs



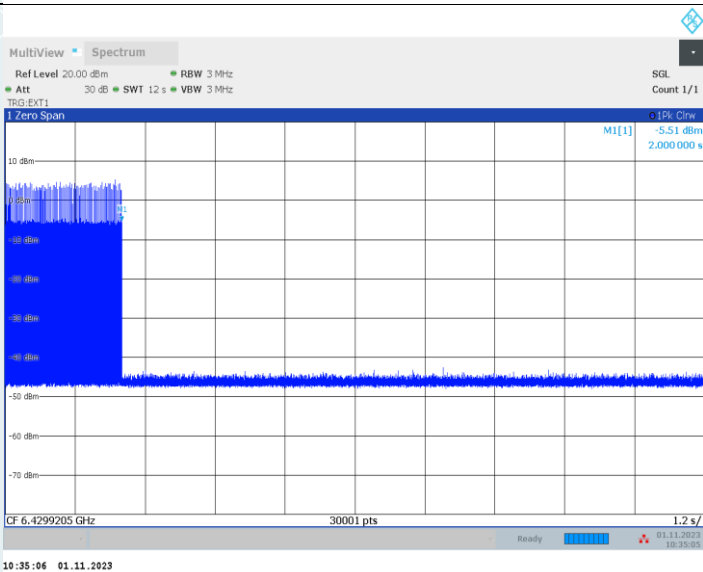
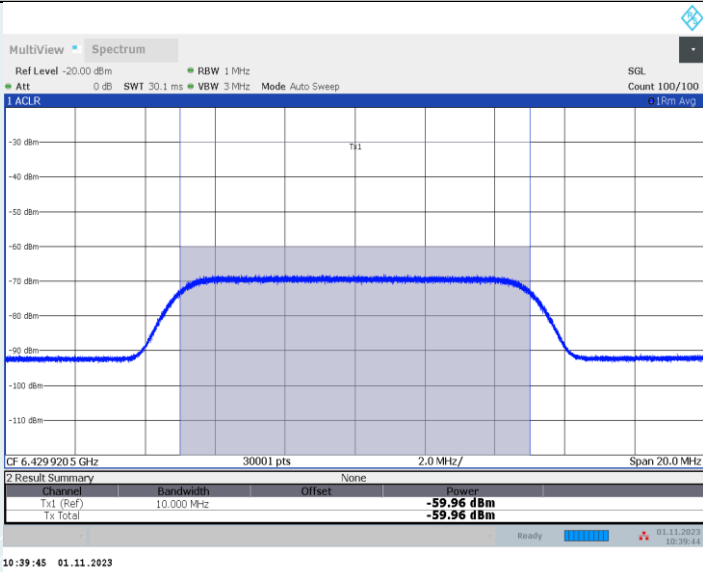
IEEE 802.11ax HE160 MIMO\_Total\_6025MHz\_Center\_6025 MHz



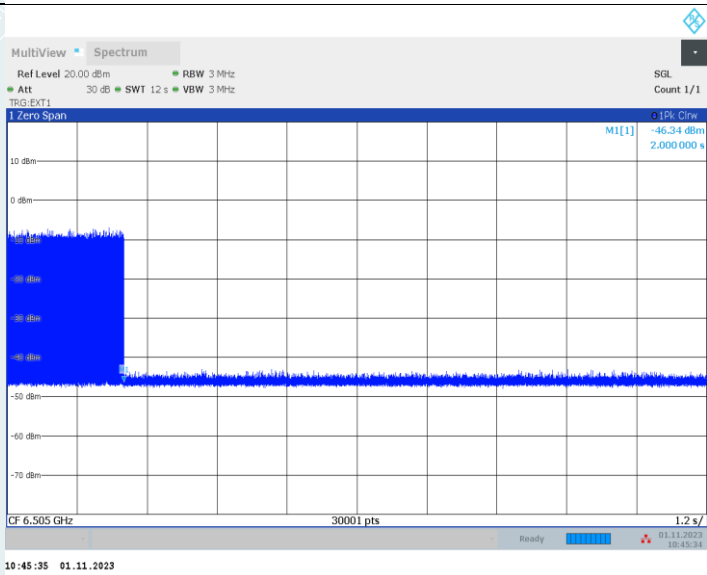
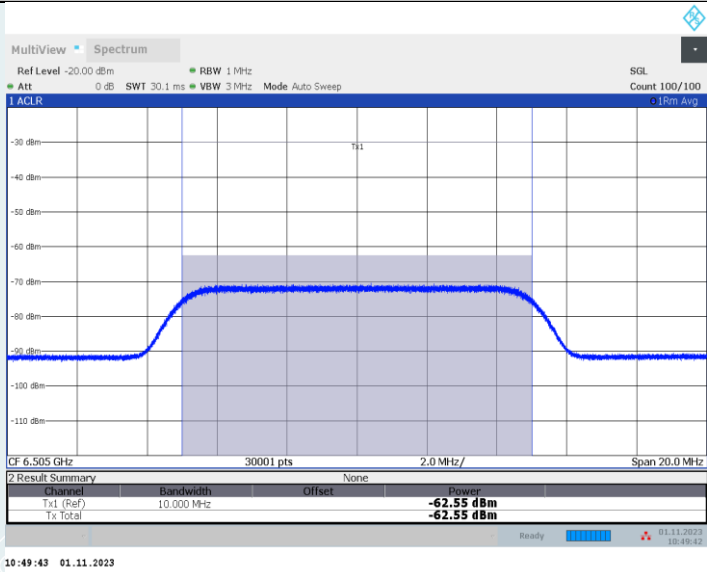
IEEE 802.11ax HE160 MIMO\_Total\_6025MHz\_High\_6098.8715 MHz



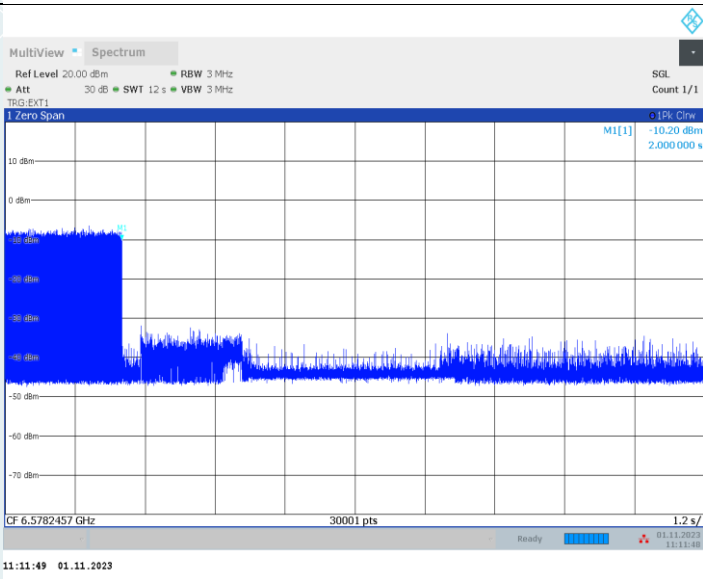
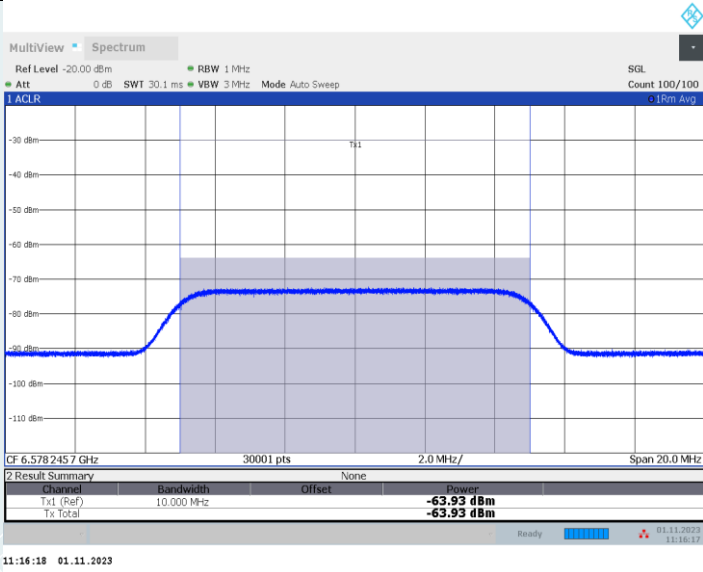
IEEE 802.11ax HE160 MIMO\_Total\_6505MHz\_Low\_6429.9205 MHz



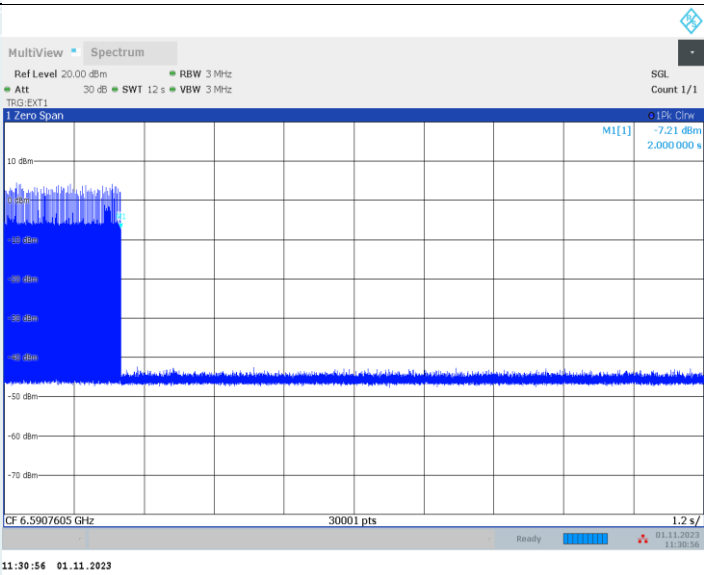
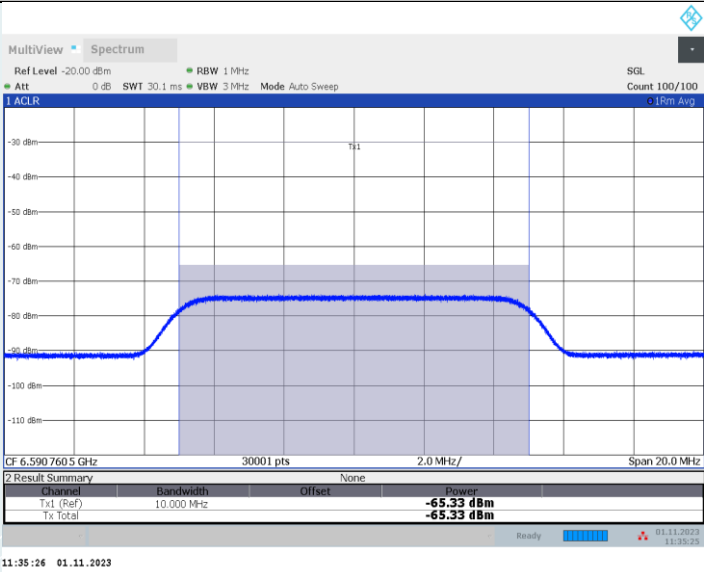
IEEE 802.11ax HE160 MIMO\_Total\_6505MHz\_Center\_6505 MHz



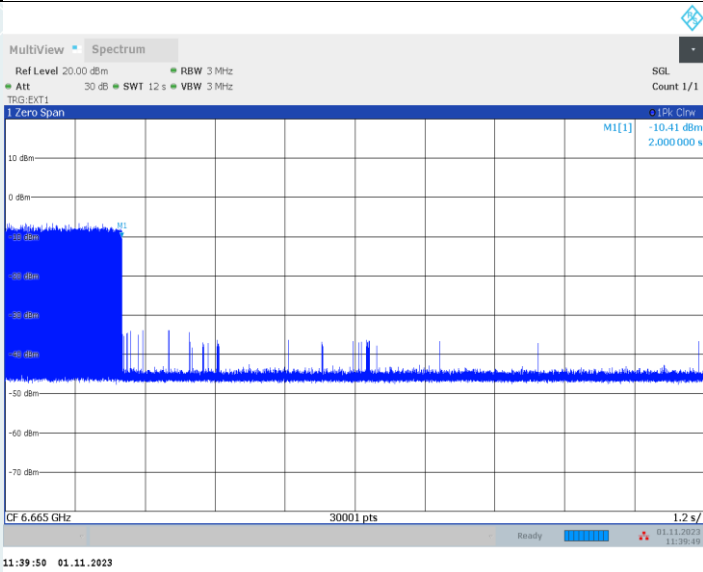
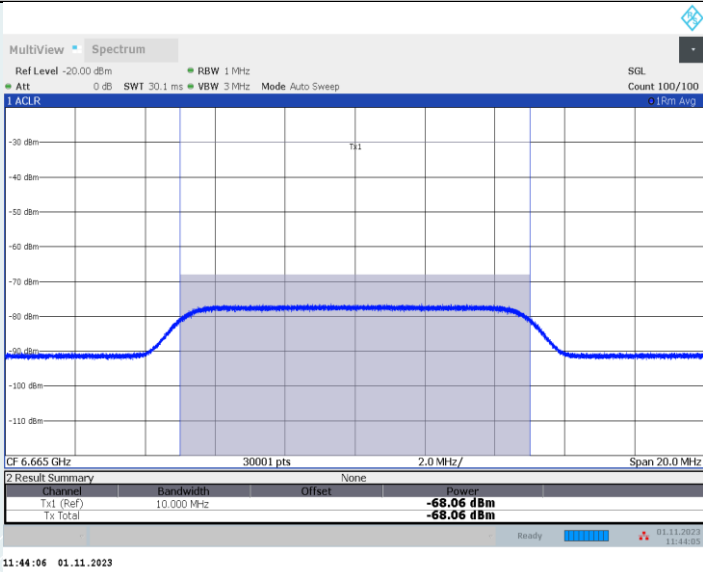
IEEE 802.11ax HE160 MIMO\_Total\_6505MHz\_High\_6578.2457 MHz



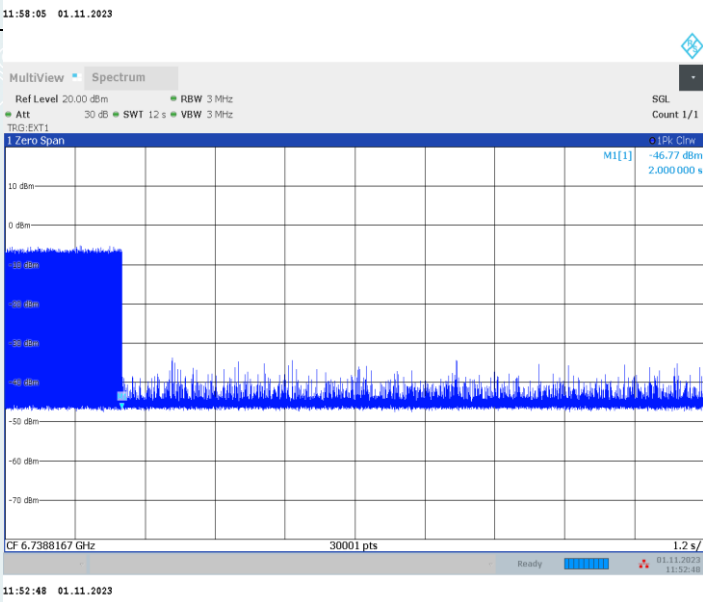
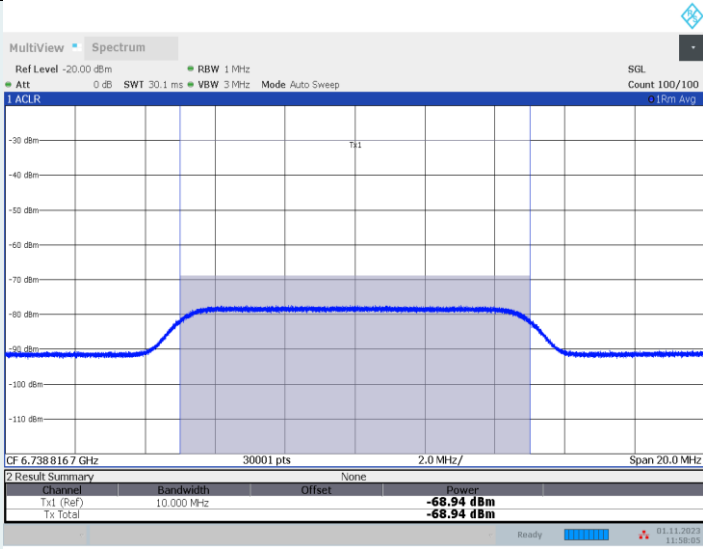
IEEE 802.11ax HE160 MIMO\_Total\_6665MHz\_Low\_6590.7605 MHz



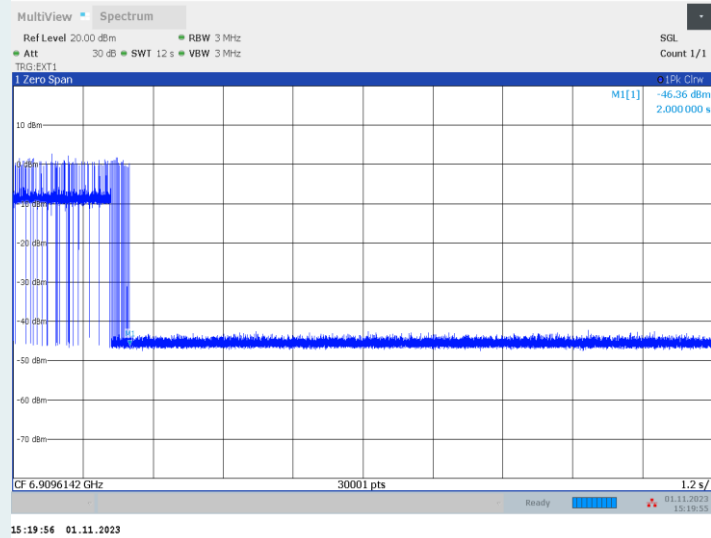
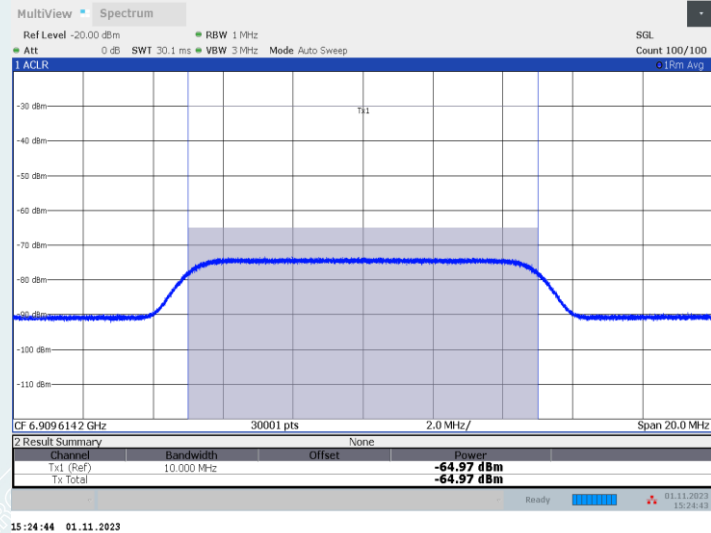
IEEE 802.11ax HE160 MIMO\_Total\_6665MHz\_Center\_6665 MHz



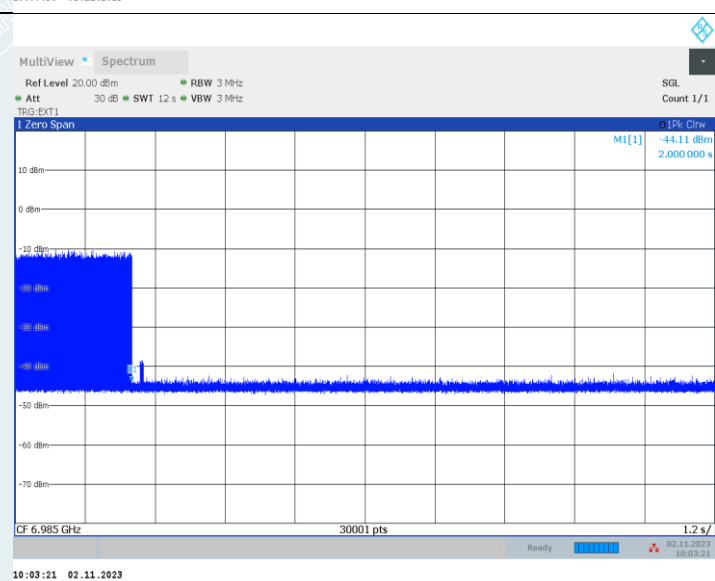
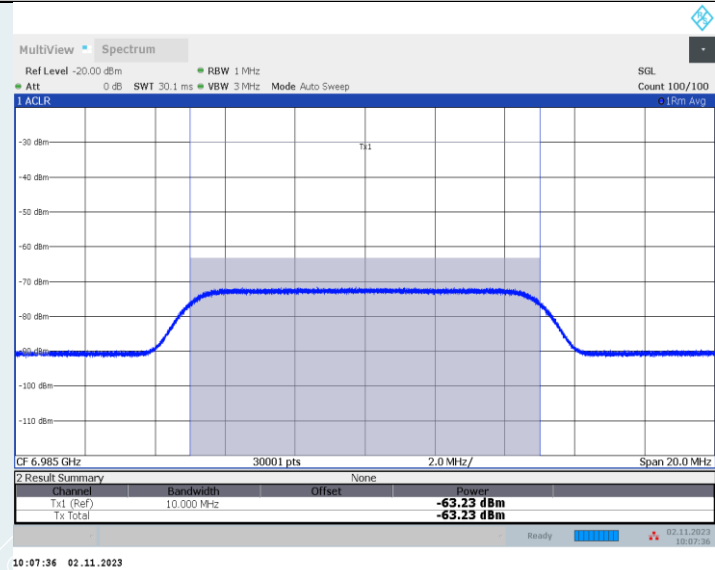
IEEE 802.11ax HE160 MIMO\_Total\_6665MHz\_High\_6738.8167 MHz



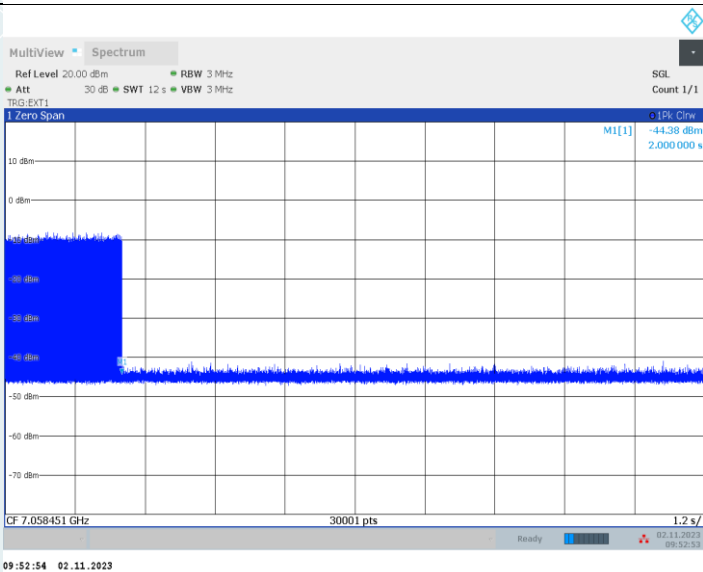
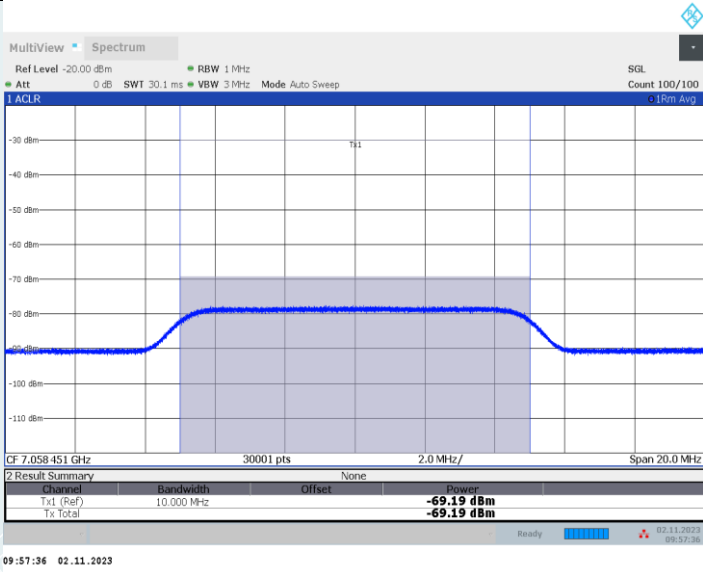
## IEEE 802.11ax HE160 MIMO\_Total\_6985 MHz\_Low\_6909.6142 MHz



## IEEE 802.11ax HE160 MIMO\_Total\_6985 MHz\_Center\_6985 MHz



IEEE 802.11ax HE160 MIMO\_Total\_6985 MHz\_High\_7058.451 MHz



### 13. FREQUENCY STABILITY

#### 13.1. LIMITS

According to §15.407(g), manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

#### 13.2. TEST PROCEDURES

##### (1) Frequency stability with respect to ambient temperature

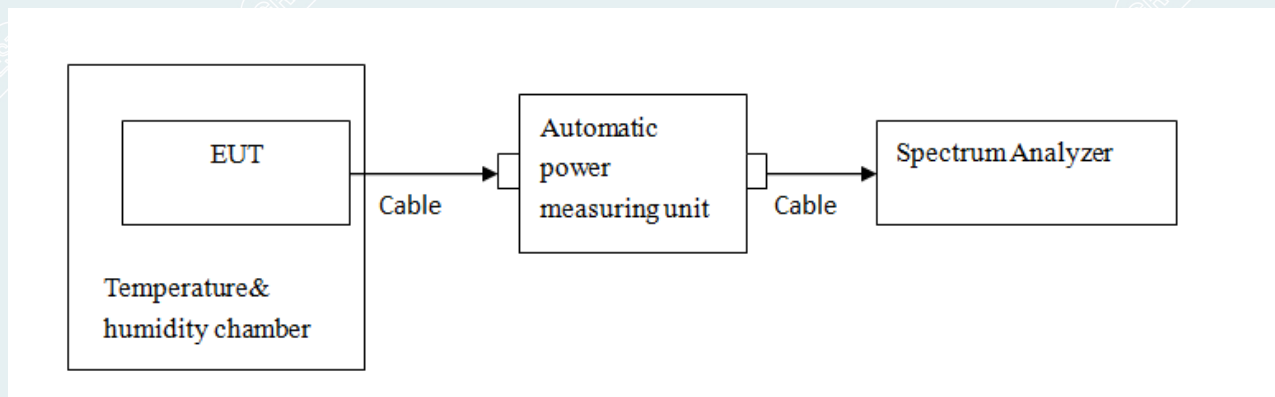
- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped with a permanently attached, adjustable-length antenna, then the EUT shall be placed in the center of the chamber with the antenna adjusted to the shortest length possible. Turn ON the EUT and tune it to one of the number of frequencies shown in §ANSI C63.10-2020(5.6).
- b) Couple the unlicensed wireless device output to the measuring instrument by connecting an antenna to the measuring instrument with a suitable length of coaxial cable and placing the measuring antenna near the EUT (e.g., 15 cm away), or by connecting a dummy load to the measuring instrument, through an attenuator if necessary.

NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.

- c) Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- d) Turn the EUT OFF and place it inside the environmental temperature chamber. For devices that have oscillator heaters, energize only the heater circuit.
- e) Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
- f) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- g) Measure the frequency at each of frequencies specified in §ANSI C63.10-2020(5.6).
- h) Switch OFF the EUT but do not switch OFF the oscillator heater.
- i) Lower the chamber temperature by not more than 10°C, and allow the temperature inside the chamber to stabilize.
- j) Repeat step a) through step d) down to the lowest specified temperature.

**(2) Frequency stability when varying supply voltage**

- a) Supply the EUT with nominal voltage or install a new or fully charged battery in the EUT. Turn ON the EUT and couple its output to a frequency counter or other frequency-measuring instrument. NOTE—An instrument that has an adequate level of accuracy as specified by the procuring or regulatory agency is the recommended measuring instrument.
- b) Tune the EUT to one of the number of frequencies required in §ANSI C63.10-2020(5.6). Adjust the location of the measurement antenna and the controls on the measurement instrument to obtain a suitable signal level (i.e., a level that will not overload the measurement instrument but is strong enough to allow measurement of the operating or fundamental frequency of the EUT).
- c) Measure the frequency at each of the frequencies specified in §ANSI C63.10-2020(5.6).
- d) Repeat the above procedure at 85% and 115% of the nominal supply voltage as described in §ANSI C63.10-2020(5.13).

**13.3. TEST SETUP**

----- The following blanks -----

## 13.4. TEST RESULTS

|                          |                      |              |            |
|--------------------------|----------------------|--------------|------------|
| Tested By                | Qin Tingting         | Tested Date  | 2023-10-21 |
| Environmental Conditions | 24.6℃/64%RH/101.0kPa | Test Voltage | DC 12V     |

| Voltage             |         |            |         |             |                |                 |             |         |
|---------------------|---------|------------|---------|-------------|----------------|-----------------|-------------|---------|
| Test Mode           | Antenna | Freq (MHz) | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| IEEE 802.11ax HE160 | Ant1    | 6025       | NV      | NT          | -60900.00      | -10.107884      | 20          | PASS    |
|                     |         |            | LV      | NT          | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | HV      | NT          | -60900.00      | -10.107884      | 20          | PASS    |
|                     | Ant2    | 6025       | NV      | NT          | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | LV      | NT          | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | HV      | NT          | -58900.00      | -9.775934       | 20          | PASS    |
|                     | Ant1    | 6185       | NV      | NT          | -50000.00      | -8.084074       | 20          | PASS    |
|                     |         |            | LV      | NT          | -55900.00      | -9.037995       | 20          | PASS    |
|                     |         |            | HV      | NT          | -57900.00      | -9.361358       | 20          | PASS    |
|                     | Ant2    | 6185       | NV      | NT          | -60900.00      | -9.846403       | 20          | PASS    |
|                     |         |            | LV      | NT          | -60900.00      | -9.846403       | 20          | PASS    |
|                     |         |            | HV      | NT          | -60900.00      | -9.846403       | 20          | PASS    |
|                     | Ant1    | 6345       | NV      | NT          | -55900.00      | -8.810087       | 20          | PASS    |
|                     |         |            | LV      | NT          | -58900.00      | -9.282900       | 20          | PASS    |
|                     |         |            | HV      | NT          | -61900.00      | -9.755713       | 20          | PASS    |
|                     | Ant2    | 6345       | NV      | NT          | -62900.00      | -9.913318       | 20          | PASS    |
|                     |         |            | LV      | NT          | -62900.00      | -9.913318       | 20          | PASS    |
|                     |         |            | HV      | NT          | -62900.00      | -9.913318       | 20          | PASS    |
|                     | Ant1    | 6505       | NV      | NT          | -63900.00      | -9.823213       | 20          | PASS    |
|                     |         |            | LV      | NT          | -61900.00      | -9.515757       | 20          | PASS    |
|                     |         |            | HV      | NT          | -64900.00      | -9.976941       | 20          | PASS    |
|                     | Ant2    | 6505       | NV      | NT          | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | LV      | NT          | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | HV      | NT          | -64900.00      | -9.976941       | 20          | PASS    |
|                     | Ant1    | 6665       | NV      | NT          | -60900.00      | -9.137284       | 20          | PASS    |
|                     |         |            | LV      | NT          | -62900.00      | -9.437359       | 20          | PASS    |
|                     |         |            | HV      | NT          | -64900.00      | -9.737434       | 20          | PASS    |
|                     | Ant2    | 6665       | NV      | NT          | -66900.00      | -10.037509      | 20          | PASS    |
|                     |         |            | LV      | NT          | -66900.00      | -10.037509      | 20          | PASS    |
|                     |         |            | HV      | NT          | -66900.00      | -10.037509      | 20          | PASS    |
|                     | Ant1    | 6825       | NV      | NT          | -57900.00      | -8.483516       | 20          | PASS    |
|                     |         |            | LV      | NT          | -62900.00      | -9.216117       | 20          | PASS    |
|                     |         |            | HV      | NT          | -64900.00      | -9.509158       | 20          | PASS    |
|                     | Ant2    | 6825       | NV      | NT          | -65900.00      | -9.655678       | 20          | PASS    |
|                     |         |            | LV      | NT          | -66900.00      | -9.802198       | 20          | PASS    |
|                     |         |            | HV      | NT          | -66900.00      | -9.802198       | 20          | PASS    |
|                     | Ant1    | 6985       | NV      | NT          | -58900.00      | -8.432355       | 20          | PASS    |
|                     |         |            | LV      | NT          | -64900.00      | -9.291339       | 20          | PASS    |
|                     |         |            | HV      | NT          | -66900.00      | -9.577666       | 20          | PASS    |
|                     | Ant2    | 6985       | NV      | NT          | -68900.00      | -9.863994       | 20          | PASS    |
|                     |         |            | LV      | NT          | -68900.00      | -9.863994       | 20          | PASS    |
|                     |         |            | HV      | NT          | -67900.00      | -9.720830       | 20          | PASS    |

| Temperature         |         |            |         |                  |                |                 |             |         |
|---------------------|---------|------------|---------|------------------|----------------|-----------------|-------------|---------|
| Test Mode           | Antenna | Freq (MHz) | Voltage | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| IEEE 802.11ax HE160 | Ant1    | 6025       | NV      | 10               | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | NV      | 20               | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | NV      | 30               | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | NV      | 35               | -59900.00      | -9.941909       | 20          | PASS    |
|                     | Ant2    | 6025       | NV      | 10               | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | NV      | 20               | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | NV      | 30               | -59900.00      | -9.941909       | 20          | PASS    |
|                     |         |            | NV      | 35               | -59900.00      | -9.941909       | 20          | PASS    |
|                     | Ant1    | 6185       | NV      | 10               | -59900.00      | -9.684721       | 20          | PASS    |
|                     |         |            | NV      | 20               | -60900.00      | -9.846403       | 20          | PASS    |
|                     |         |            | NV      | 30               | -59900.00      | -9.684721       | 20          | PASS    |
|                     |         |            | NV      | 35               | -60900.00      | -9.846403       | 20          | PASS    |
|                     | Ant2    | 6185       | NV      | 10               | -60900.00      | -9.846403       | 20          | PASS    |
|                     |         |            | NV      | 20               | -59900.00      | -9.684721       | 20          | PASS    |
|                     |         |            | NV      | 30               | -60900.00      | -9.846403       | 20          | PASS    |
|                     |         |            | NV      | 35               | -60900.00      | -9.846403       | 20          | PASS    |
|                     | Ant1    | 6345       | NV      | 10               | -62900.00      | -9.913318       | 20          | PASS    |
|                     |         |            | NV      | 20               | -62900.00      | -9.913318       | 20          | PASS    |
|                     |         |            | NV      | 30               | -62900.00      | -9.913318       | 20          | PASS    |
|                     |         |            | NV      | 35               | -63900.00      | -10.070922      | 20          | PASS    |
|                     | Ant2    | 6345       | NV      | 10               | -63900.00      | -10.070922      | 20          | PASS    |
|                     |         |            | NV      | 20               | -62900.00      | -9.913318       | 20          | PASS    |
|                     |         |            | NV      | 30               | -63900.00      | -10.070922      | 20          | PASS    |
|                     |         |            | NV      | 35               | -63900.00      | -10.070922      | 20          | PASS    |
|                     | Ant1    | 6505       | NV      | 10               | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | NV      | 20               | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | NV      | 30               | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | NV      | 35               | -64900.00      | -9.976941       | 20          | PASS    |
|                     | Ant2    | 6505       | NV      | 10               | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | NV      | 20               | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | NV      | 30               | -64900.00      | -9.976941       | 20          | PASS    |
|                     |         |            | NV      | 35               | -64900.00      | -9.976941       | 20          | PASS    |
|                     | Ant1    | 6665       | NV      | 10               | -66900.00      | -10.037509      | 20          | PASS    |
|                     |         |            | NV      | 20               | -66900.00      | -10.037509      | 20          | PASS    |
|                     |         |            | NV      | 30               | -66900.00      | -10.037509      | 20          | PASS    |
|                     |         |            | NV      | 35               | -66900.00      | -10.037509      | 20          | PASS    |
|                     | Ant2    | 6665       | NV      | 10               | -65900.00      | -9.887472       | 20          | PASS    |
|                     |         |            | NV      | 20               | -65900.00      | -9.887472       | 20          | PASS    |

|  |      |      |    |    |           |            |    |      |
|--|------|------|----|----|-----------|------------|----|------|
|  |      |      | NV | 30 | -66900.00 | -10.037509 | 20 | PASS |
|  |      |      | NV | 35 | -66900.00 | -10.037509 | 20 | PASS |
|  | Ant1 | 6825 | NV | 10 | -65900.00 | -9.655678  | 20 | PASS |
|  |      |      | NV | 20 | -65900.00 | -9.655678  | 20 | PASS |
|  |      |      | NV | 30 | -66900.00 | -9.802198  | 20 | PASS |
|  |      |      | NV | 35 | -65900.00 | -9.655678  | 20 | PASS |
|  | Ant2 | 6825 | NV | 10 | -66900.00 | -9.802198  | 20 | PASS |
|  |      |      | NV | 20 | -66900.00 | -9.802198  | 20 | PASS |
|  |      |      | NV | 30 | -67900.00 | -9.948718  | 20 | PASS |
|  |      |      | NV | 35 | -67900.00 | -9.948718  | 20 | PASS |
|  | Ant1 | 6985 | NV | 10 | -67900.00 | -9.720830  | 20 | PASS |
|  |      |      | NV | 20 | -66900.00 | -9.577666  | 20 | PASS |
|  |      |      | NV | 30 | -68900.00 | -9.863994  | 20 | PASS |
|  |      |      | NV | 35 | -67900.00 | -9.720830  | 20 | PASS |
|  | Ant2 | 6985 | NV | 10 | -69900.00 | -10.007158 | 20 | PASS |
|  |      |      | NV | 20 | -68900.00 | -9.863994  | 20 | PASS |
|  |      |      | NV | 30 | -68900.00 | -9.863994  | 20 | PASS |
|  |      |      | NV | 35 | -68900.00 | -9.863994  | 20 | PASS |

Note: 1.This report records the worst case of temperature change test observation time 0/2/5/10min .  
 2. Test Voltage-NV: DC 12V, Test Voltage-LV: DC10.8V, Test Voltage-HV: DC 13.2V.  
 3. Temperature Range:10℃~35℃, Temperature-NT: 24.6℃.

----- The following blanks -----

**APPENDIX A. PHOTOGRAPH OF THE TEST CONNECTION DIAGRAM**

Please refer to the attached document E20231019753001-FCC Test photo.

**APPENDIX B. PHOTOGRAPH OF THE EUT**

Please refer to the attached document E20231019753001-EUT photo.

----- End of Report -----