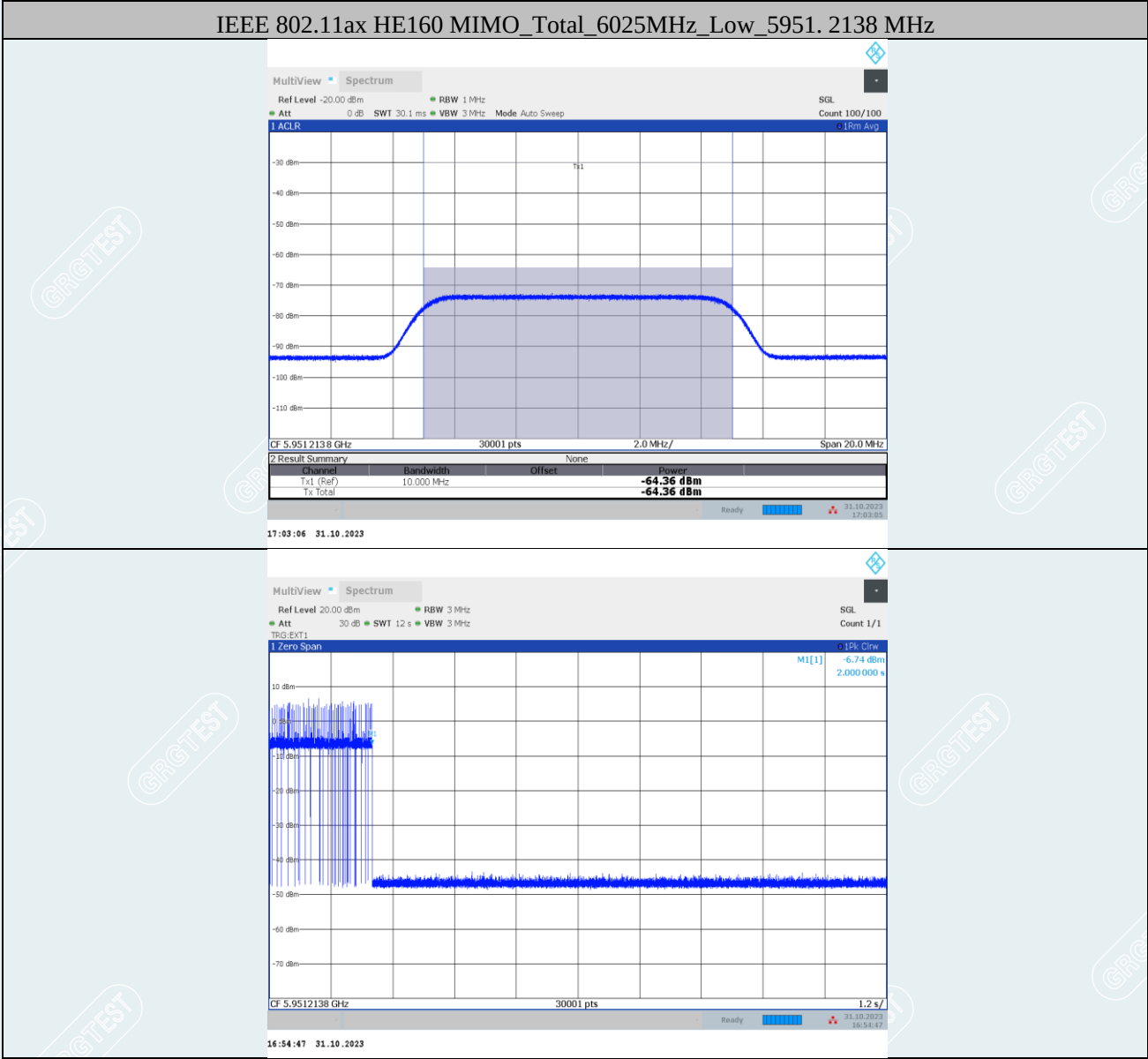


Frequency [MHz]	Interference Frequency [MHz]	1	2	3	4	5	6	7	8	9	10	Detection Rate [%]	Detection Rate Limit[%]	Verdict
6025	Low	5951.2138	1	1	1	0	1	1	1	1	1	90	90	PASS
	Center	6025	1	1	1	1	1	0	1	1	1	90	90	PASS
	High	6098.8715	1	1	1	1	1	1	1	1	1	100	90	PASS
6505	Low	6429.9205	1	1	1	1	1	1	1	1	1	100	90	PASS
	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

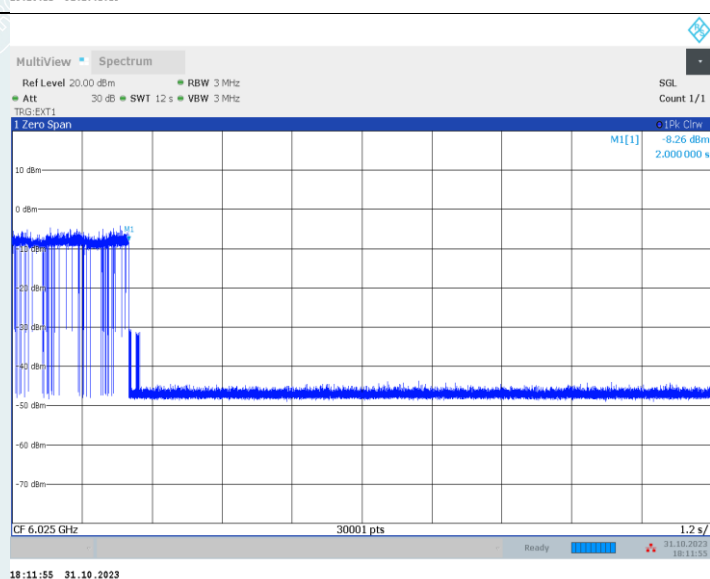
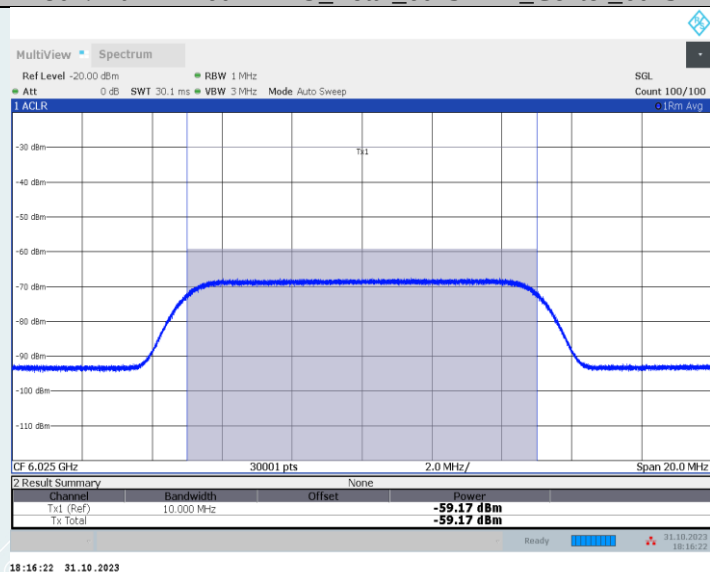
Note: Contention-based protocol Detection Trials(1=Detection, 0=No Detection)

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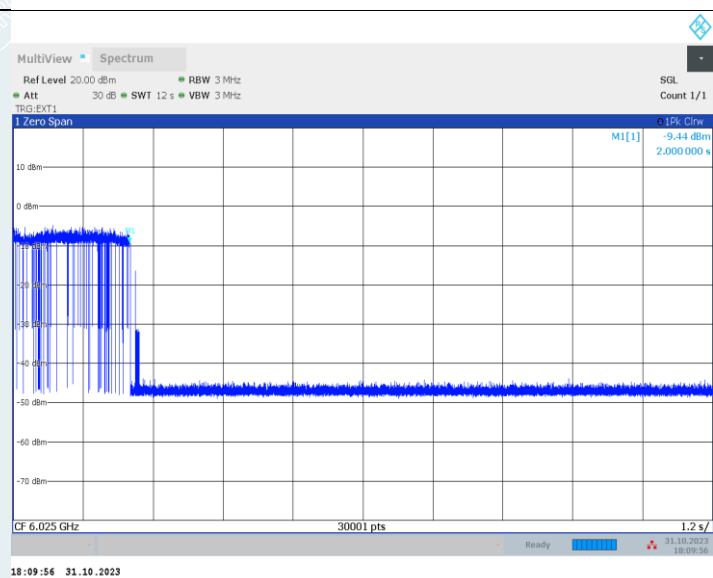
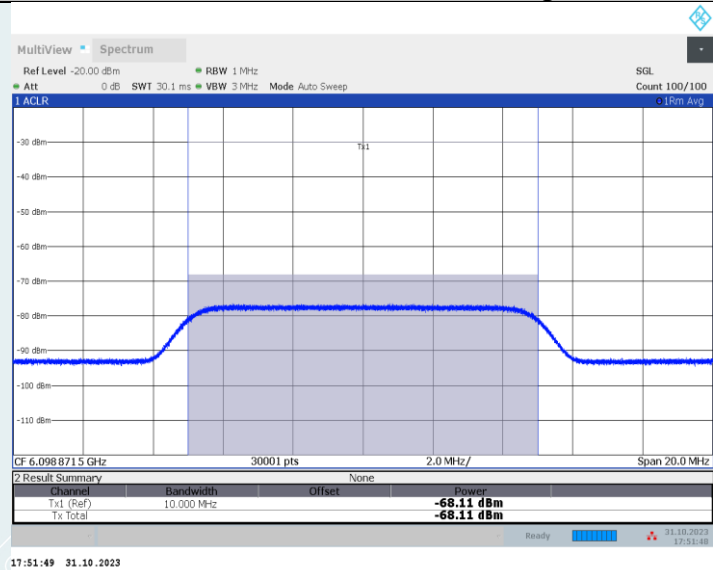
Test Graphs



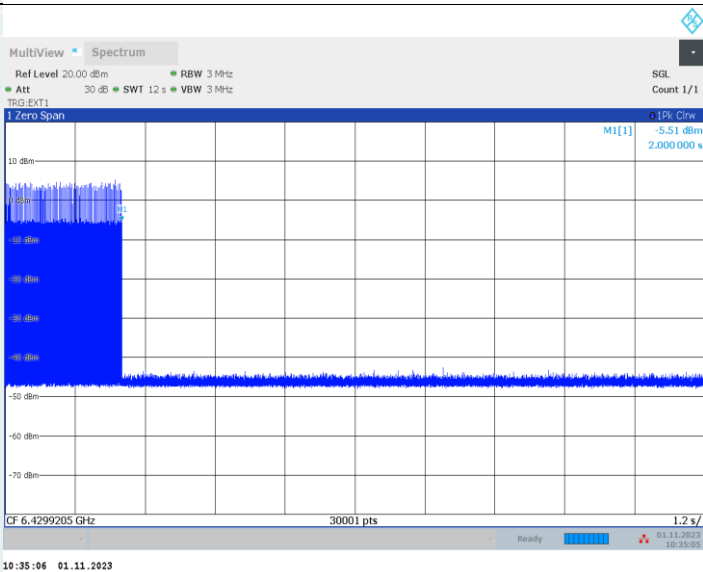
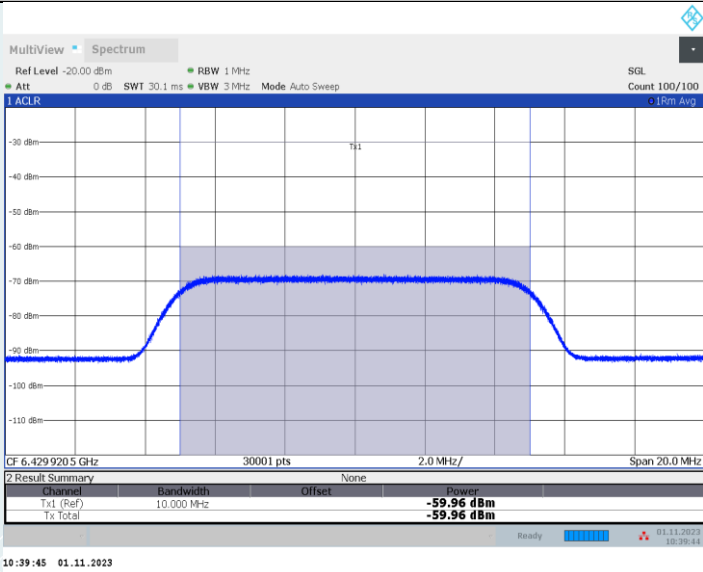
IEEE 802.11ax HE160 MIMO_Total_6025MHz_Center_6025 MHz



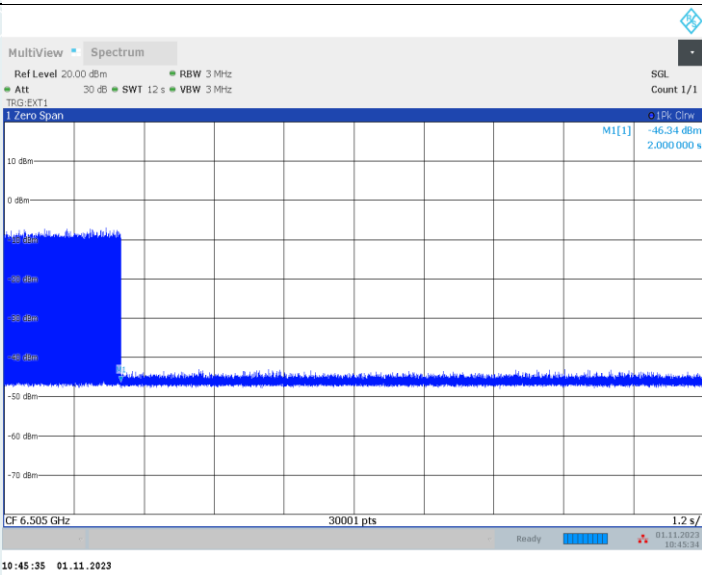
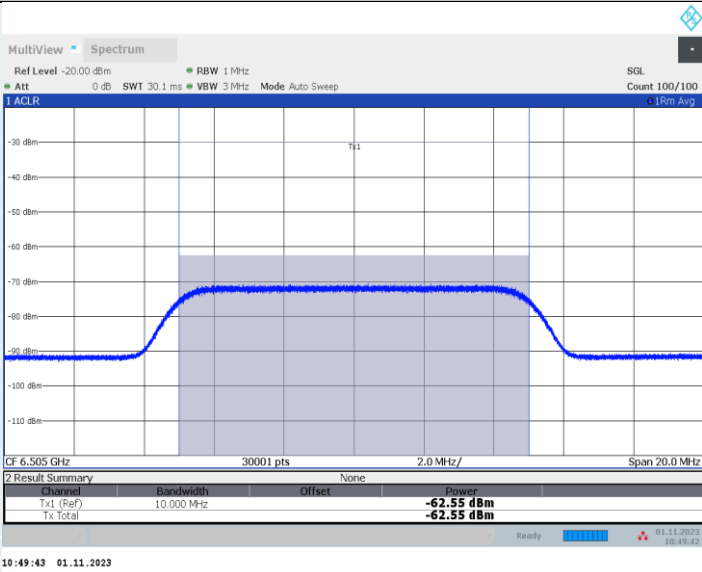
IEEE 802.11ax HE160 MIMO_Total_6025MHz_High_6098.8715 MHz



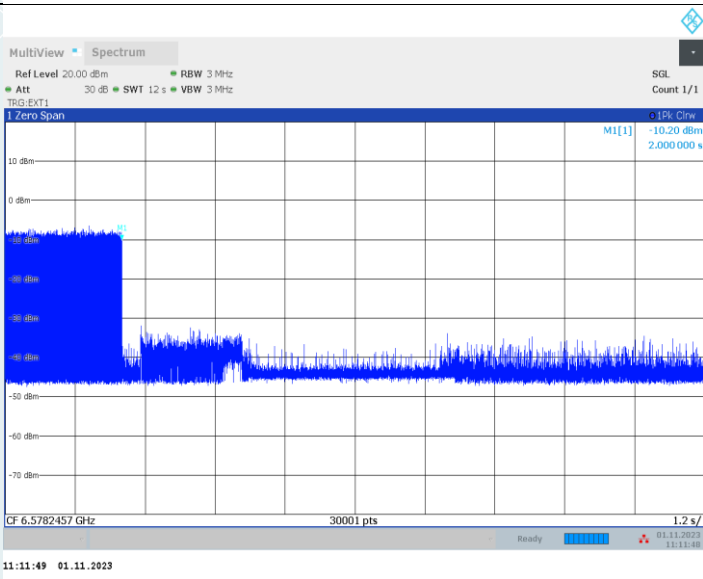
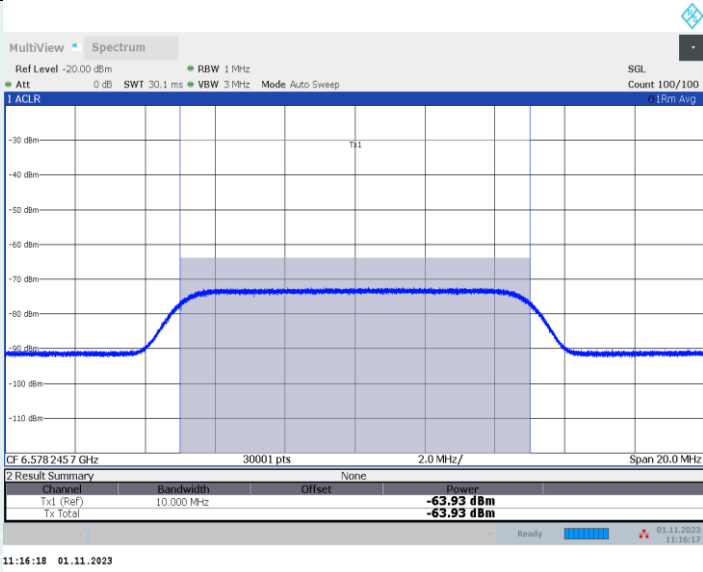
IEEE 802.11ax HE160 MIMO_Total_6505MHz_Low_6429.9205 MHz



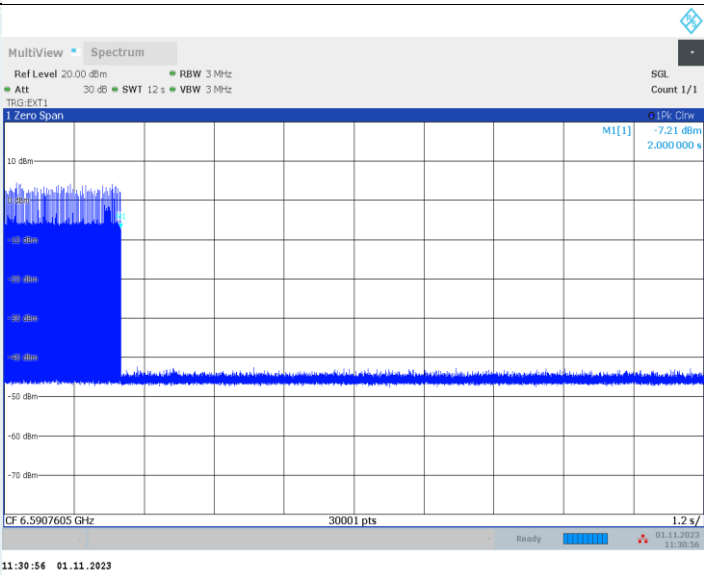
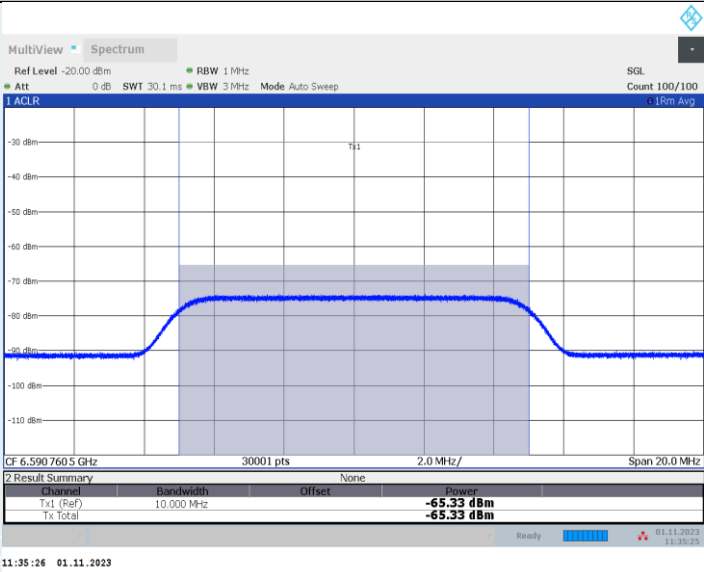
IEEE 802.11ax HE160 MIMO_Total_6505MHz_Center_6505 MHz



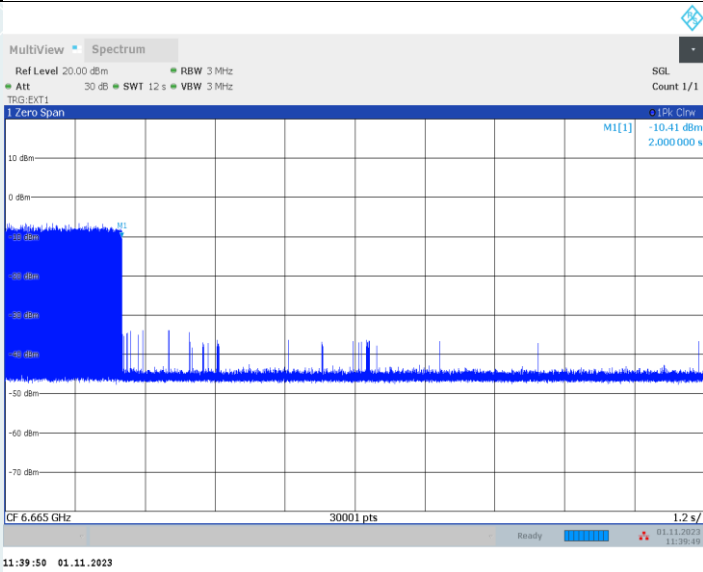
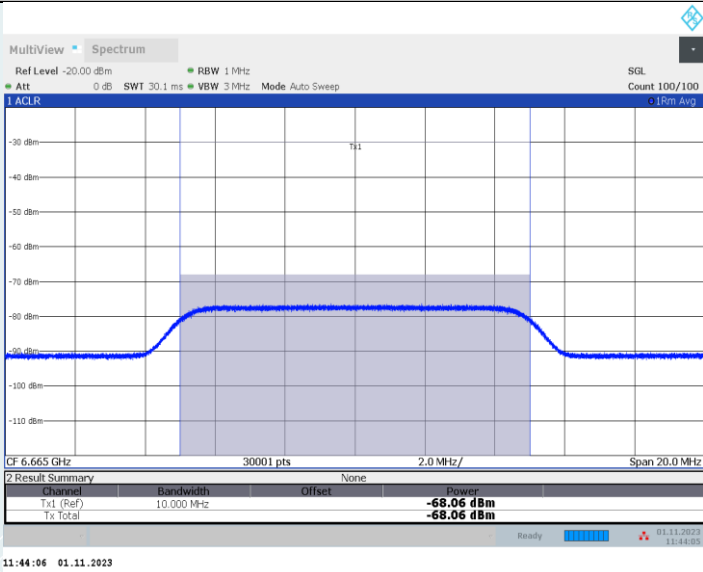
IEEE 802.11ax HE160 MIMO_Total_6505MHz_High_6578.2457 MHz



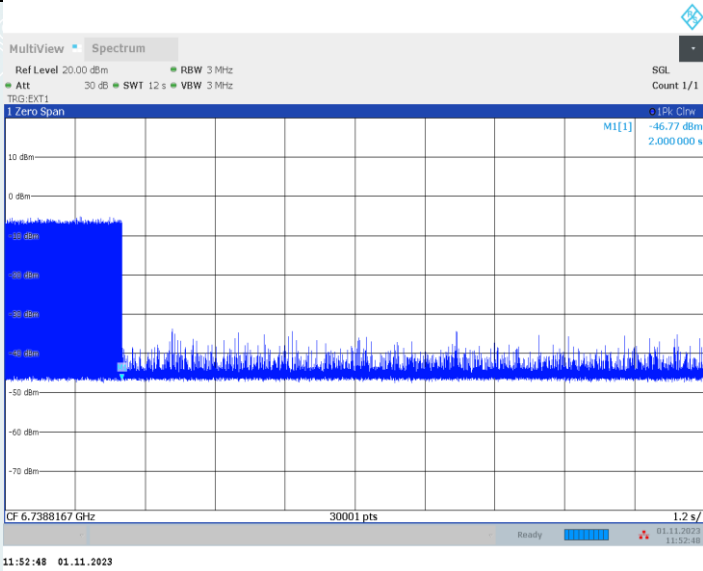
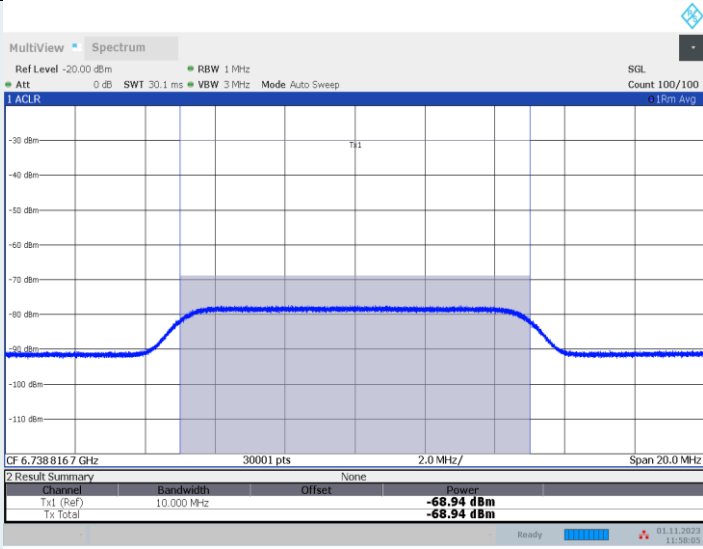
IEEE 802.11ax HE160 MIMO_Total_6665MHz_Low_6590.7605 MHz



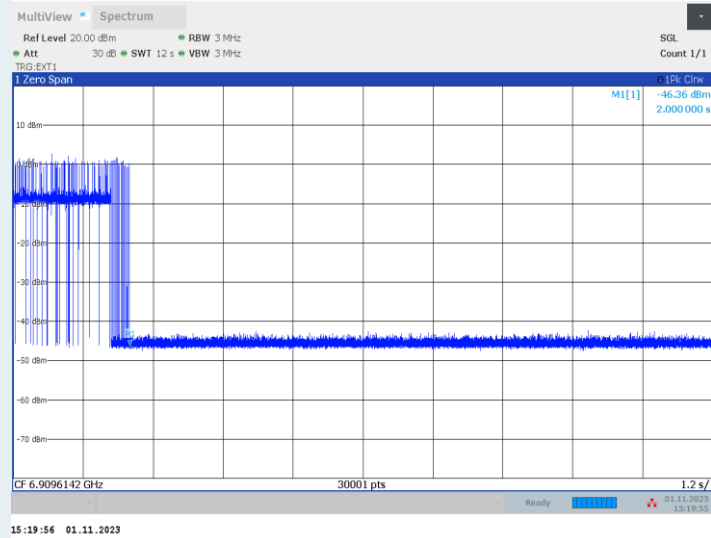
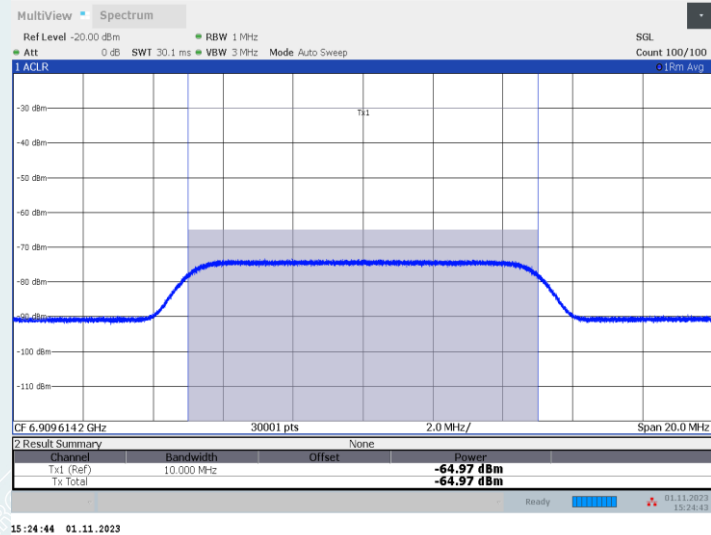
IEEE 802.11ax HE160 MIMO_Total_6665MHz_Center_6665 MHz



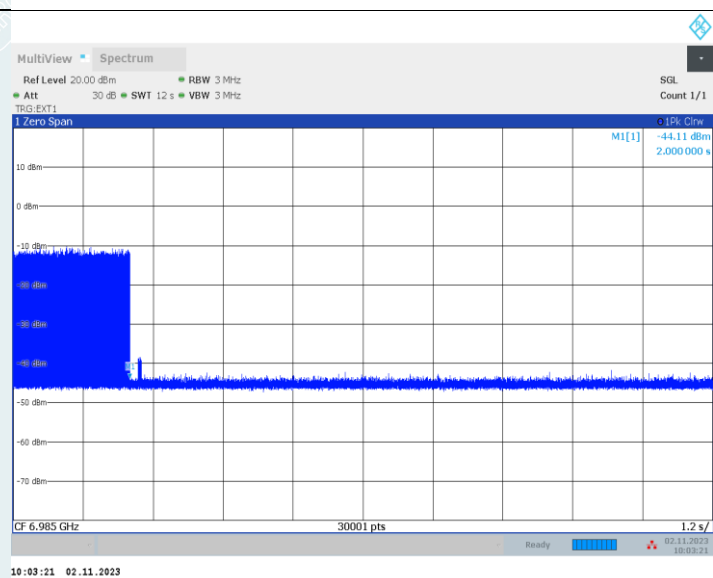
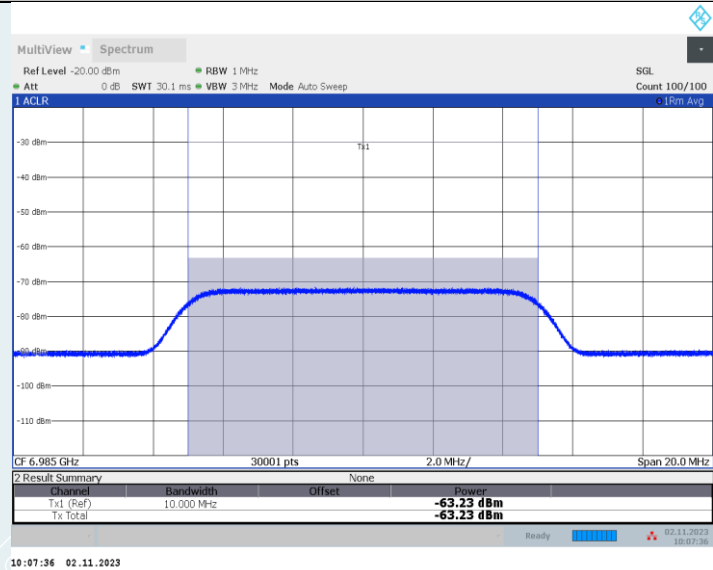
IEEE 802.11ax HE160 MIMO_Total_6665MHz_High_6738.8167 MHz



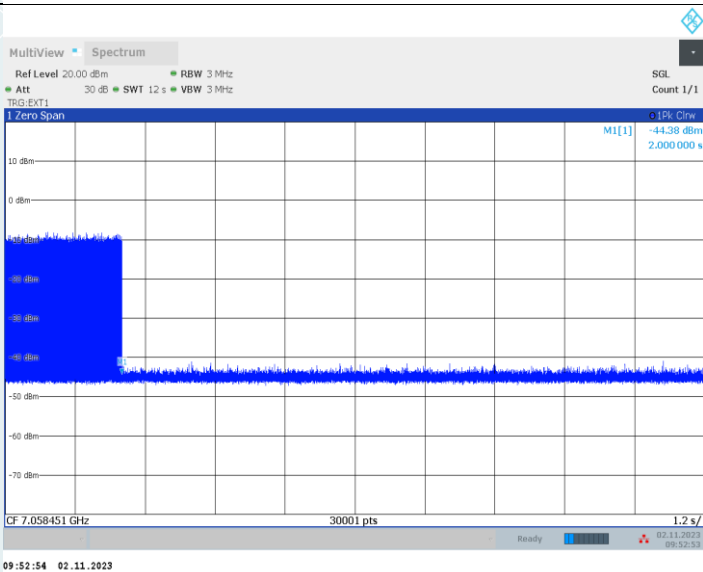
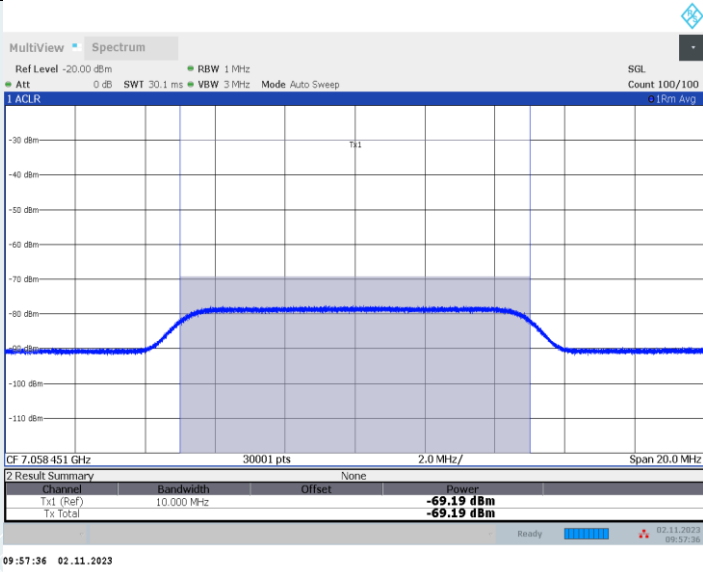
IEEE 802.11ax HE160 MIMO_Total_6985 MHz_Low_6909.6142 MHz



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

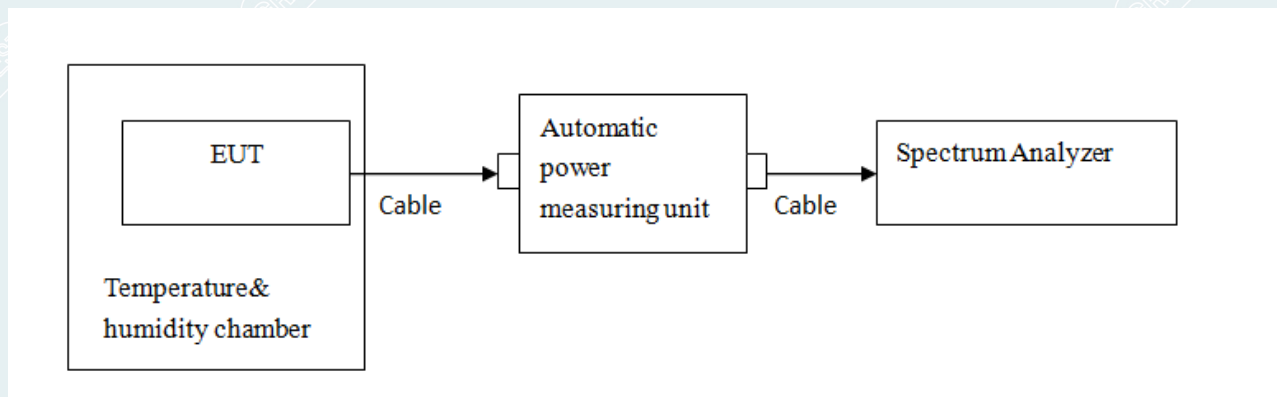
- a) Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT. If possible, a dummy load shall be connected to the EUT because an antenna near the metallic walls of an environmental test chamber could affect the output frequency of the EUT. If the EUT is equipped 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

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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℃.

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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 -----