

9.8. LP SPURIOUS EMISSIONS IN-BAND – EMISSION MASK

LIMITS

FCC §15.407

(b)(7) For transmitters operating within the 5.925-7.125 GHz bands: power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

TEST PROCEDURE

Follow KDB 987594 D02, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only RU26 tone for all bandwidths, the RBW & VBW settings were used equal or greater than 26dB bandwidth test settings.

| Band | Tones | *20MHz (RBW/VBW) | *40MHz (RBW/VBW) | *80MHz (RBW/VBW) | *160MHz (RBW/VBW) |
|--------------|------------|--|--|---|--|
| UNII-5/6/7/8 | Partial RU | MRU106+26T: 300kHz/910kHz 52T: 300kHz/910kHz 106T: 300kHz/910kHz | 52T: 510kHz/1.6MHz 106T: 510kHz/1.6MHz 242T: 510kHz/1.6MHz | 484T: 820kHz/2.7MHz MRU484+242T: 1MHz/3MHz | 52T: 510kHz/1.6MHz (UNII-5/-7) 52T: 820kHz/2.7MHz (UNII-6) 484T: 820kHz/2.7MHz MRU484+242T: 1MHz/3MHz |
| | SU | 300kHz/910kHz | 510kHz/1.6MHz | 1MHz/3MHz | 2MHz/6MHz |

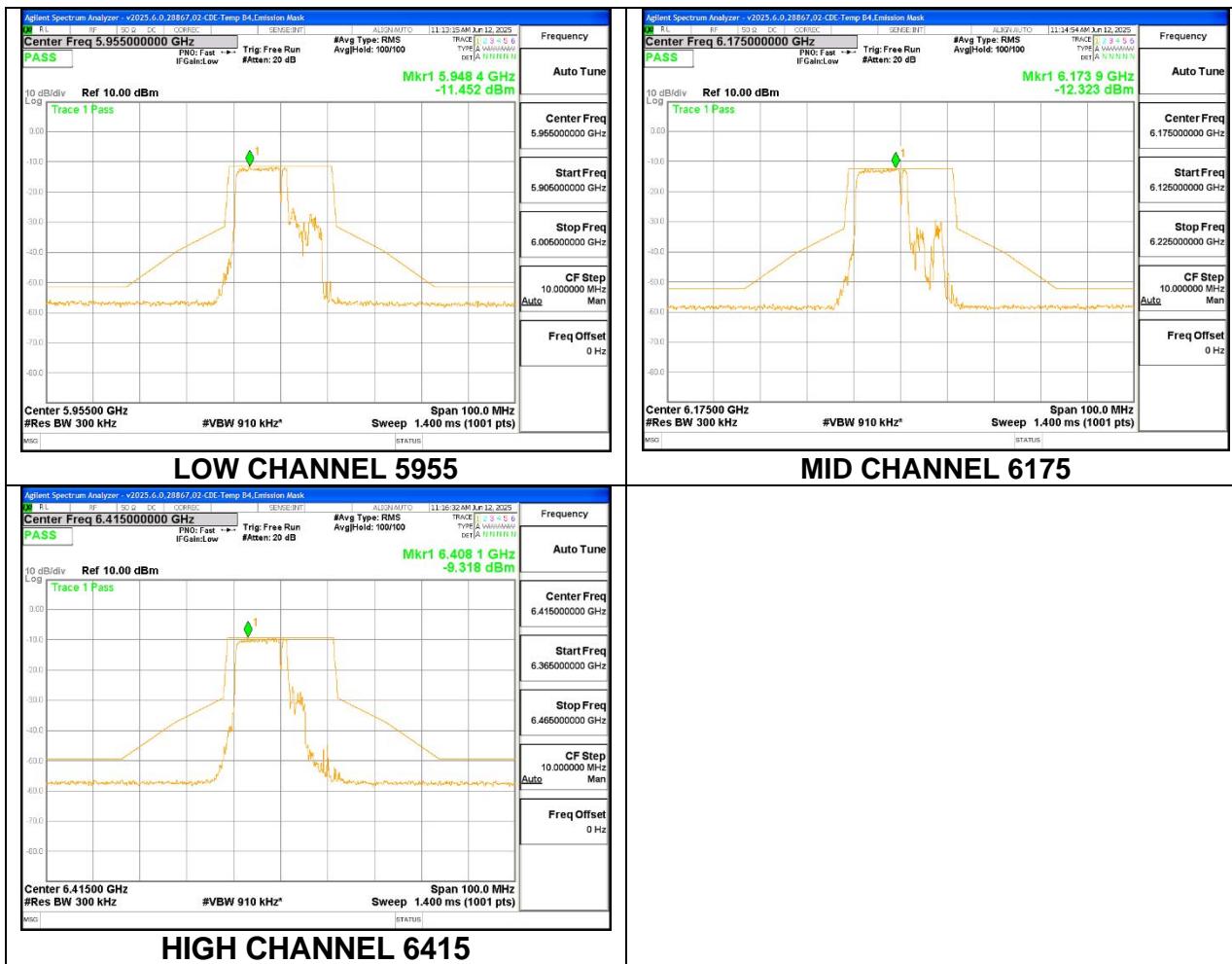
*Different RBW/VBW due to different partial tones.

RESULTS

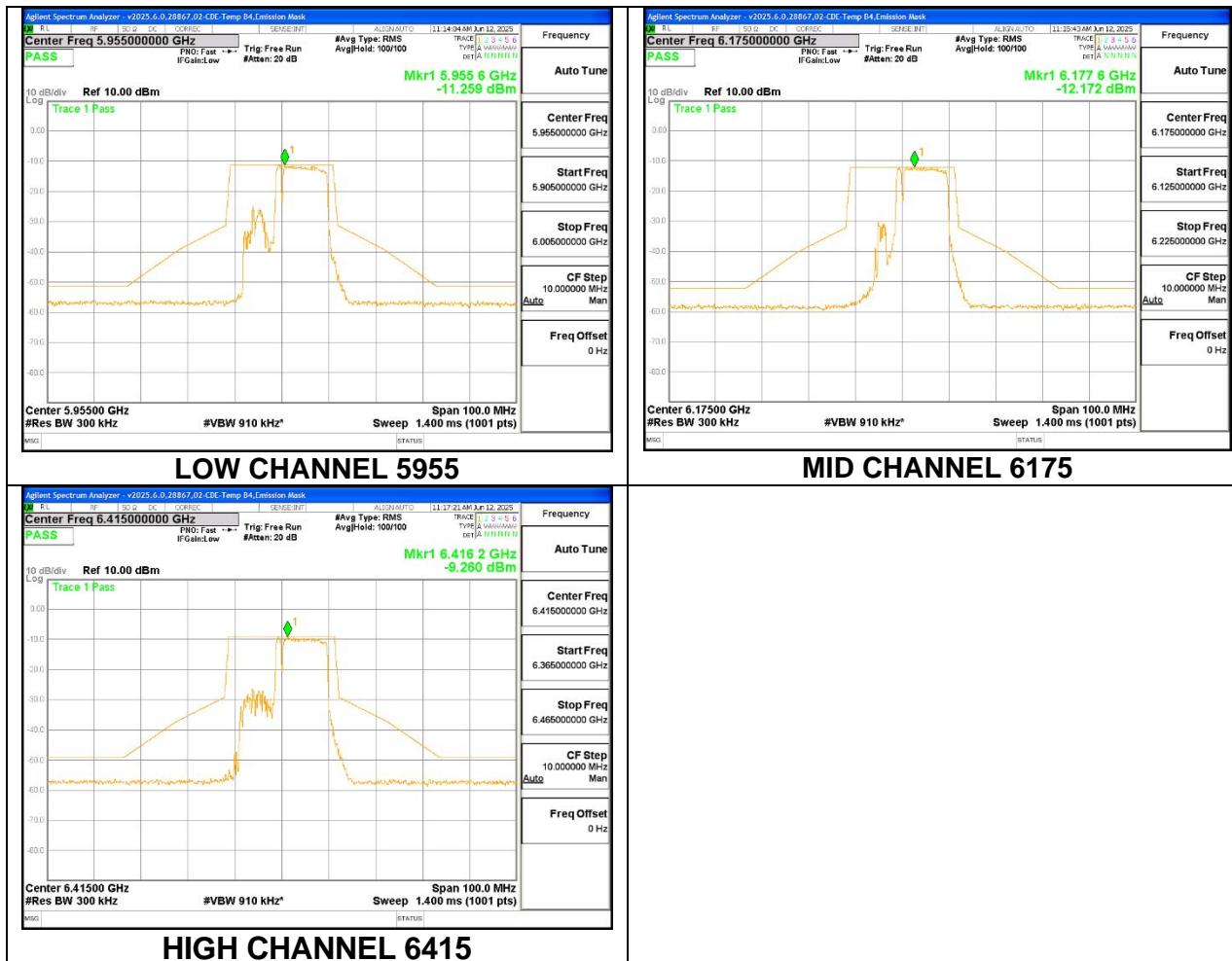
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low, mid and high channels in each band. Additionally, the mid channel is also tested with the RU allocated in the center of the channel to verify that the low / high RU allocations are worst case.

9.8.1. 802.11be EHT20 MODE IN THE UNII-5 BAND

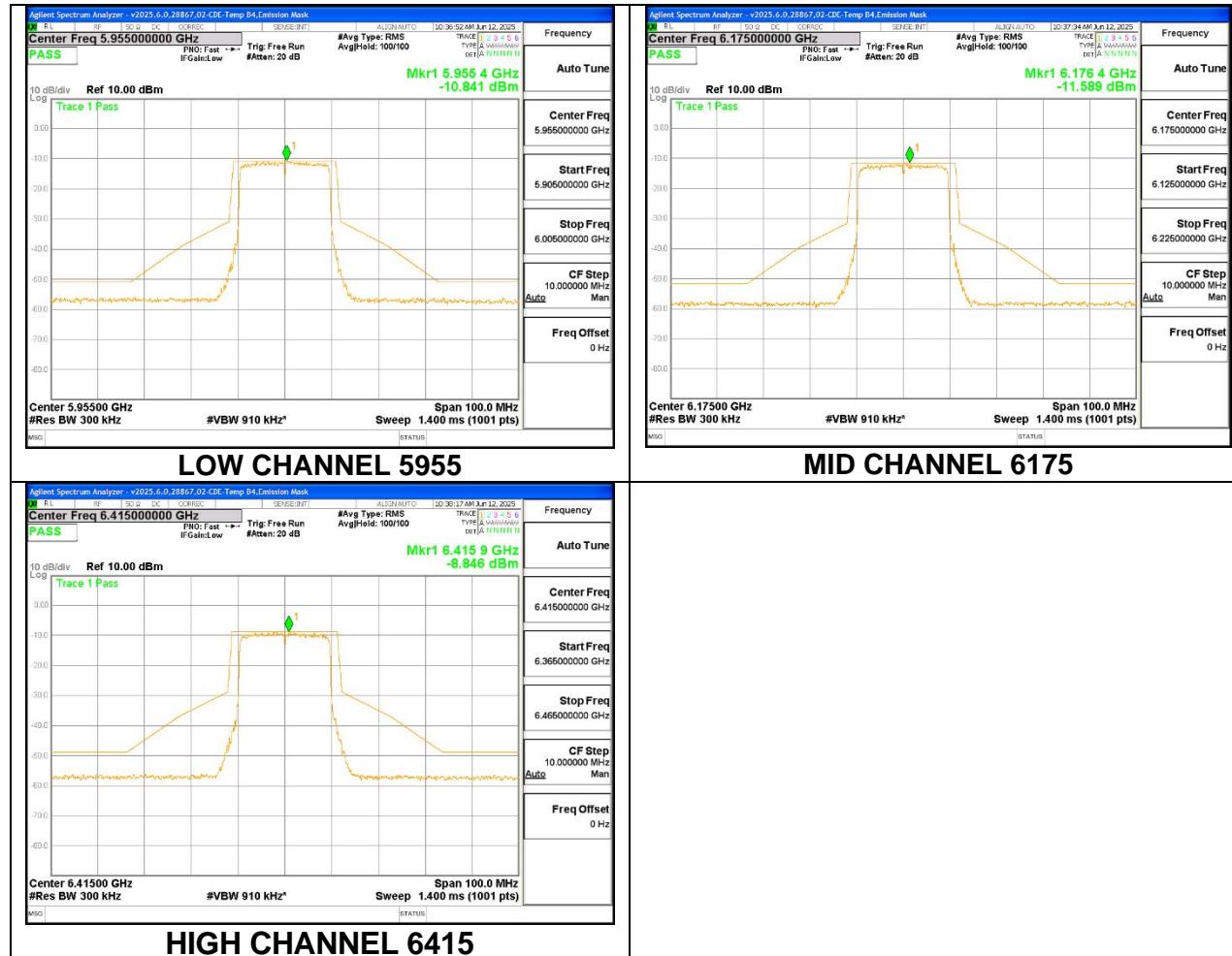
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82

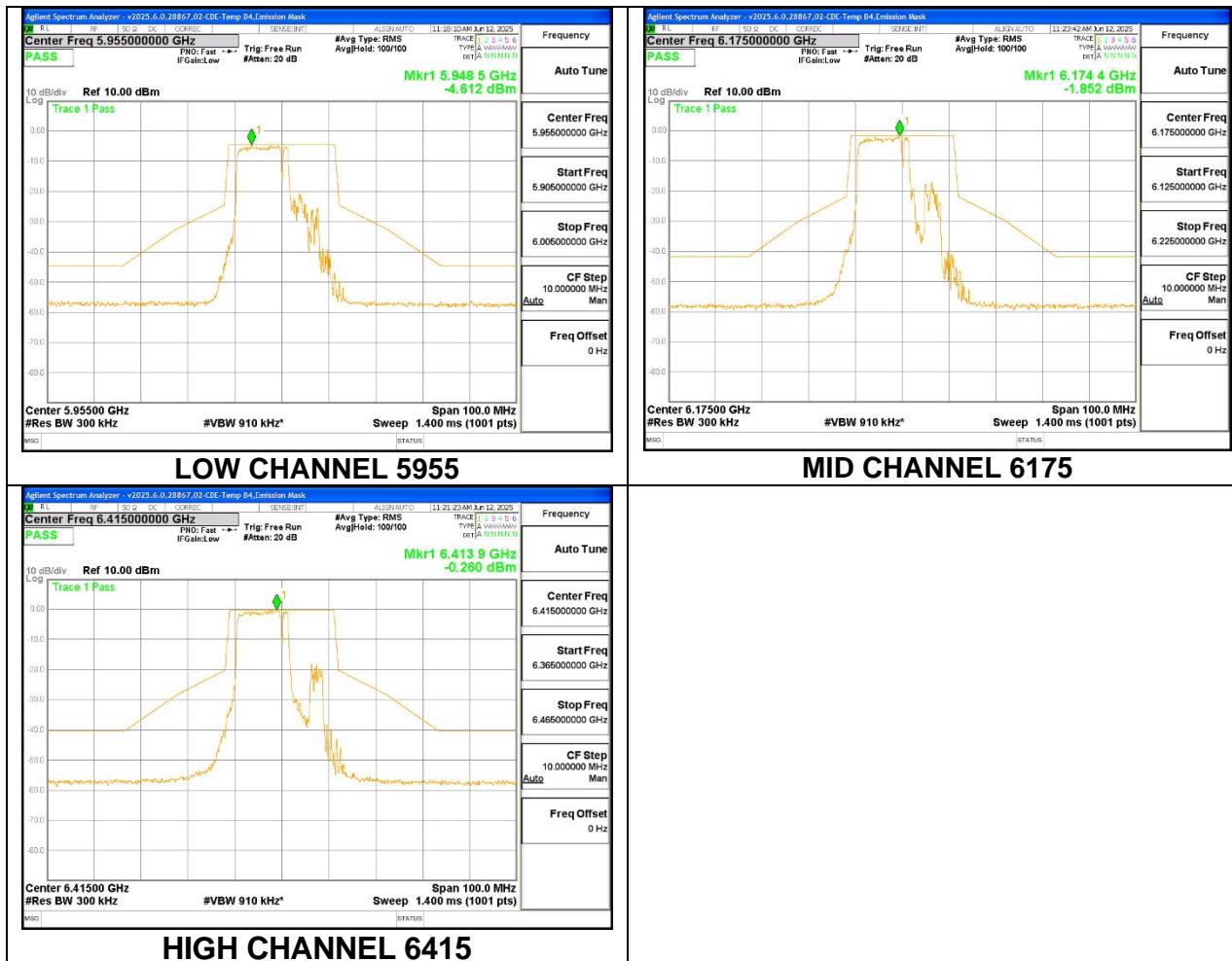


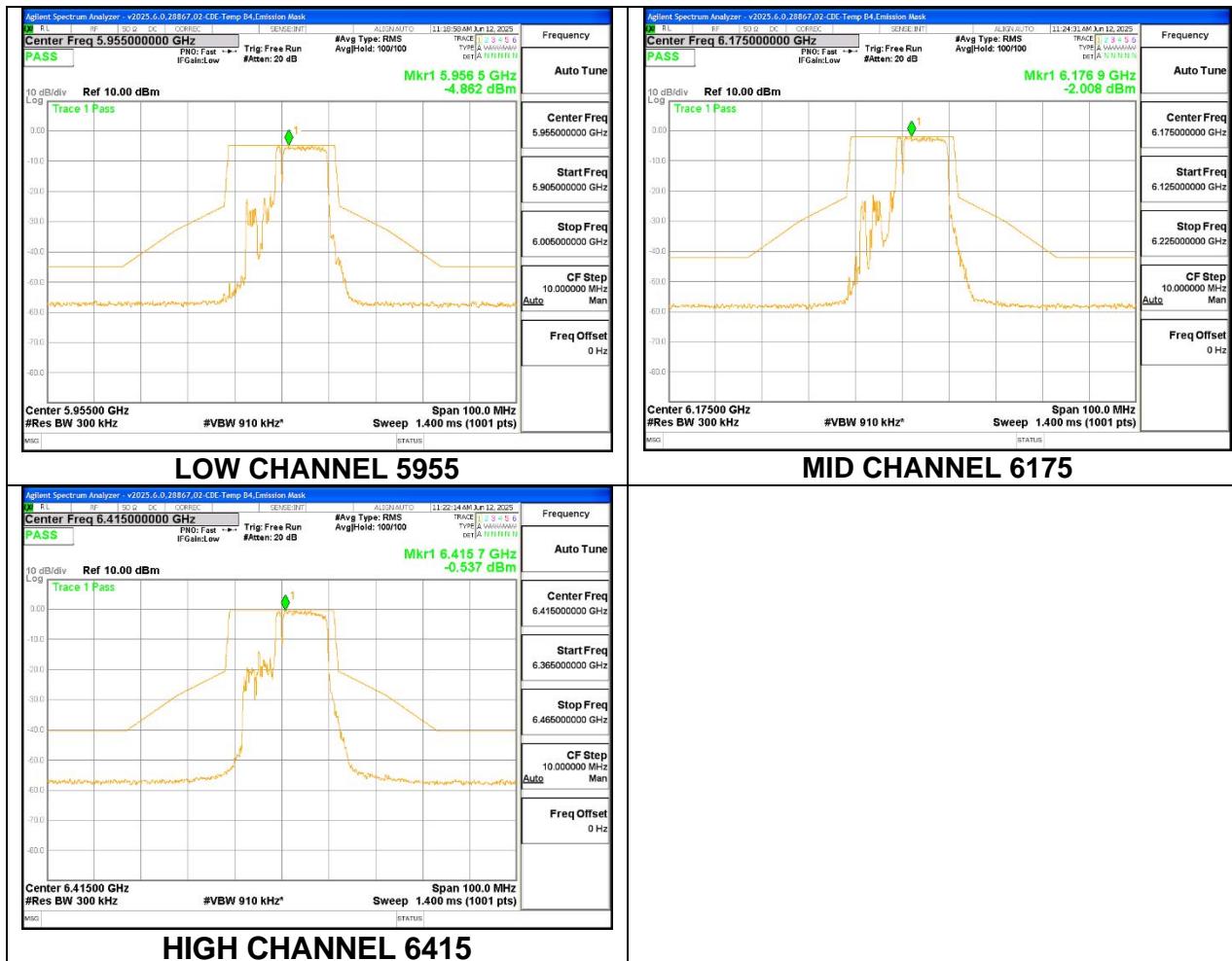
1TX Antenna 6 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83

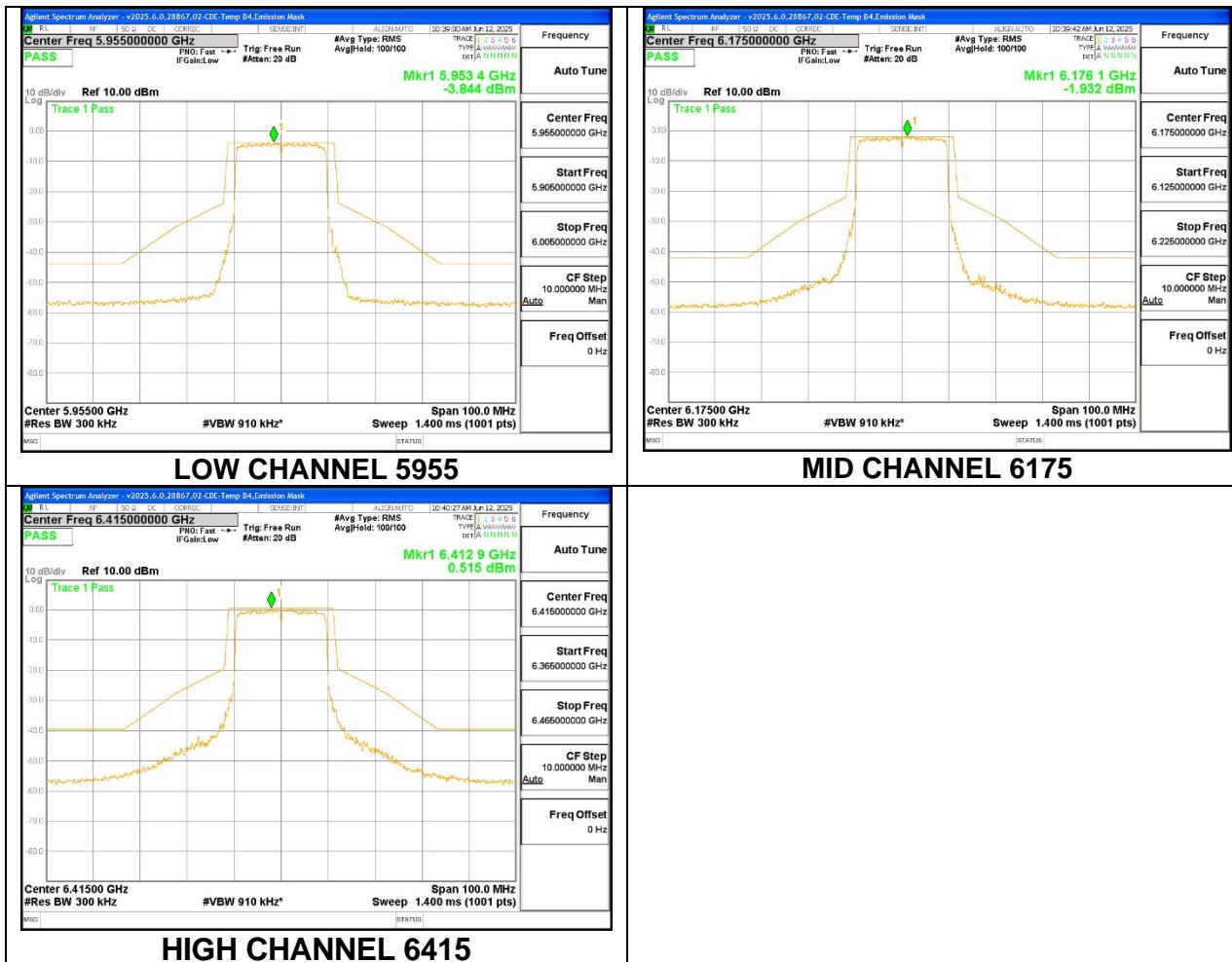


1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 82

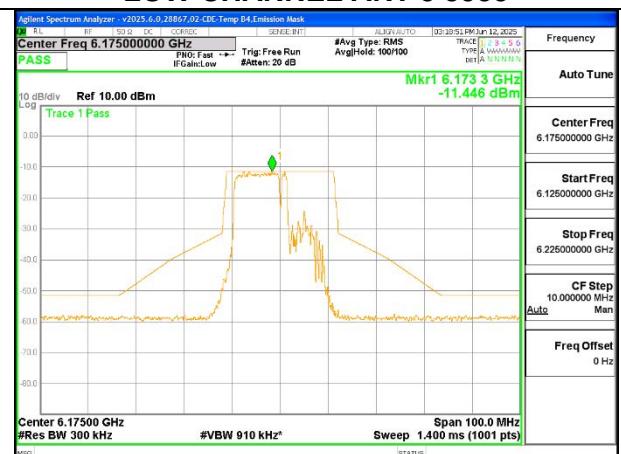
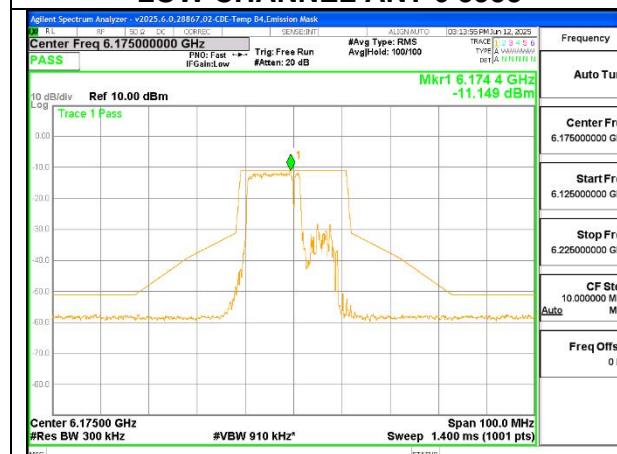
1TX Antenna 5 MODE (FCC+IC) MOBILE – MRU106+26-Tones, RU Index 83

1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE

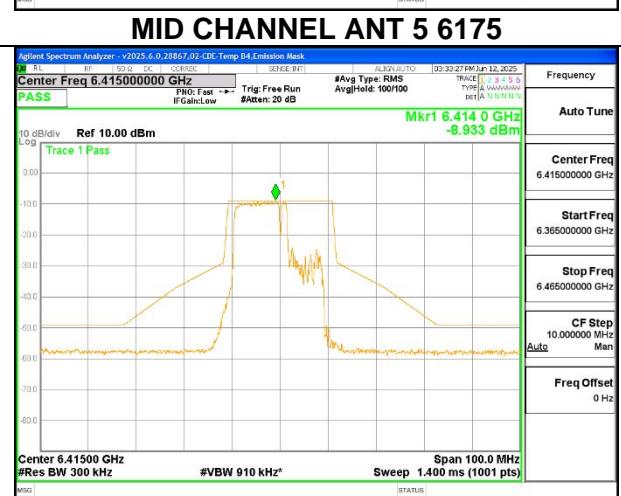
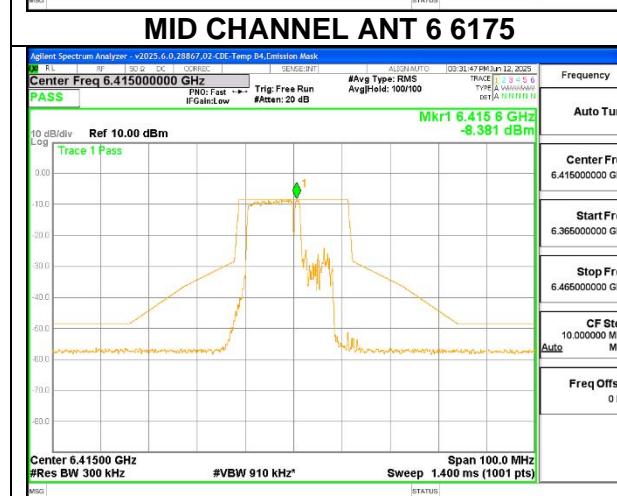
2TX CDD MODE (FCC + IC) – MRU106+26-Tones, RU Index 82



LOW CHANNEL ANT 6 5955



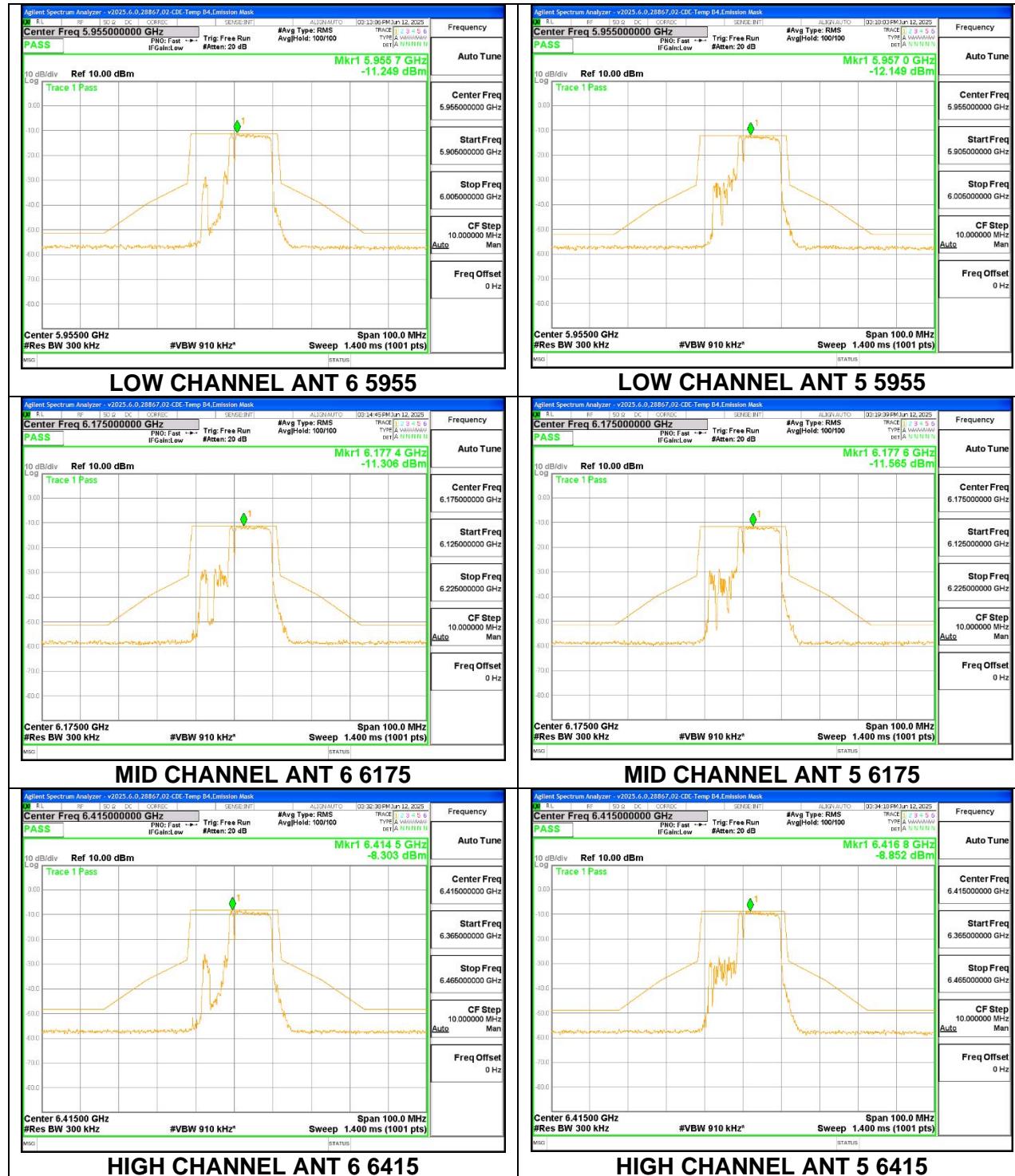
LOW CHANNEL ANT 5 5955

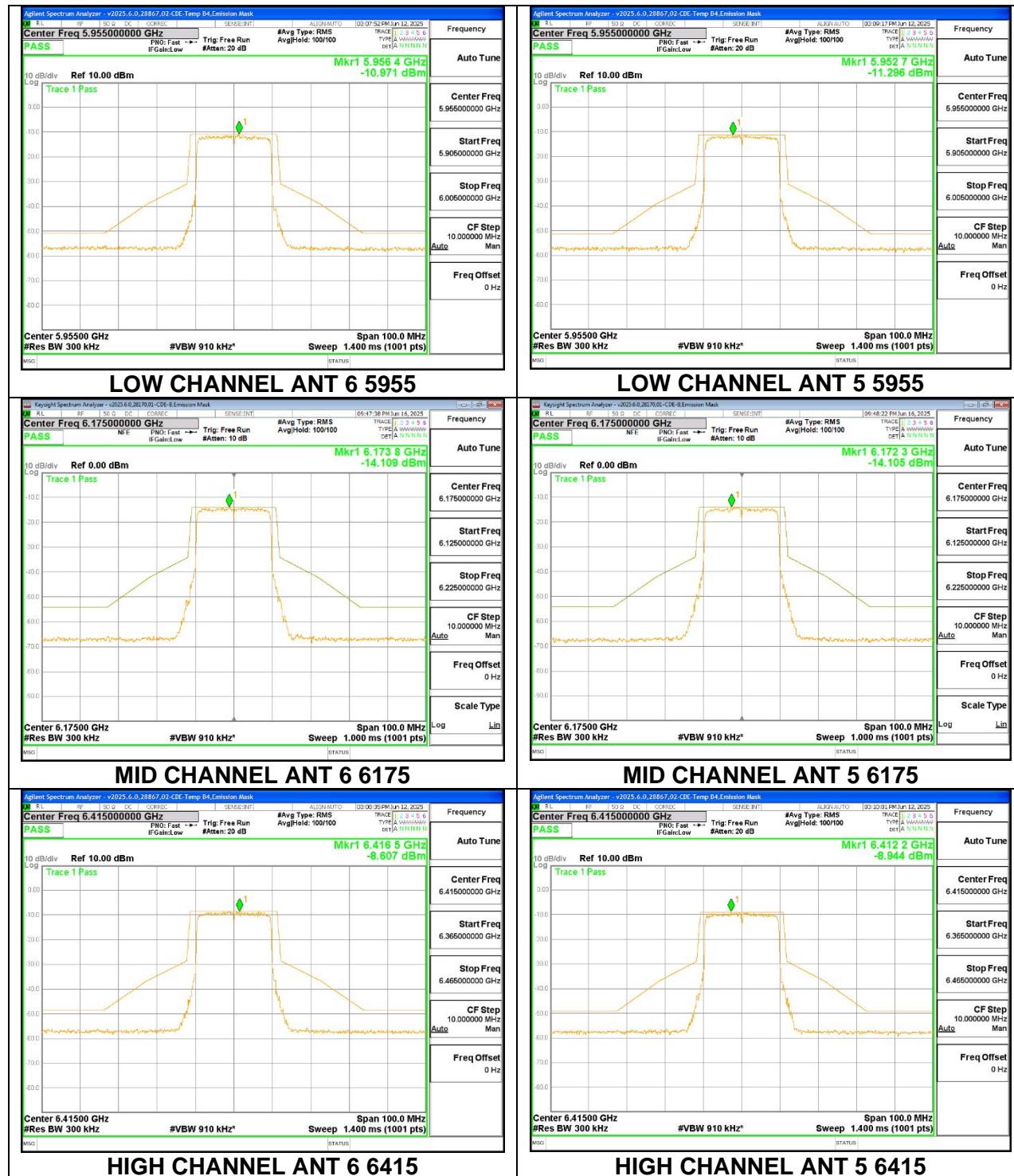


HIGH CHANNEL ANT 6 6415

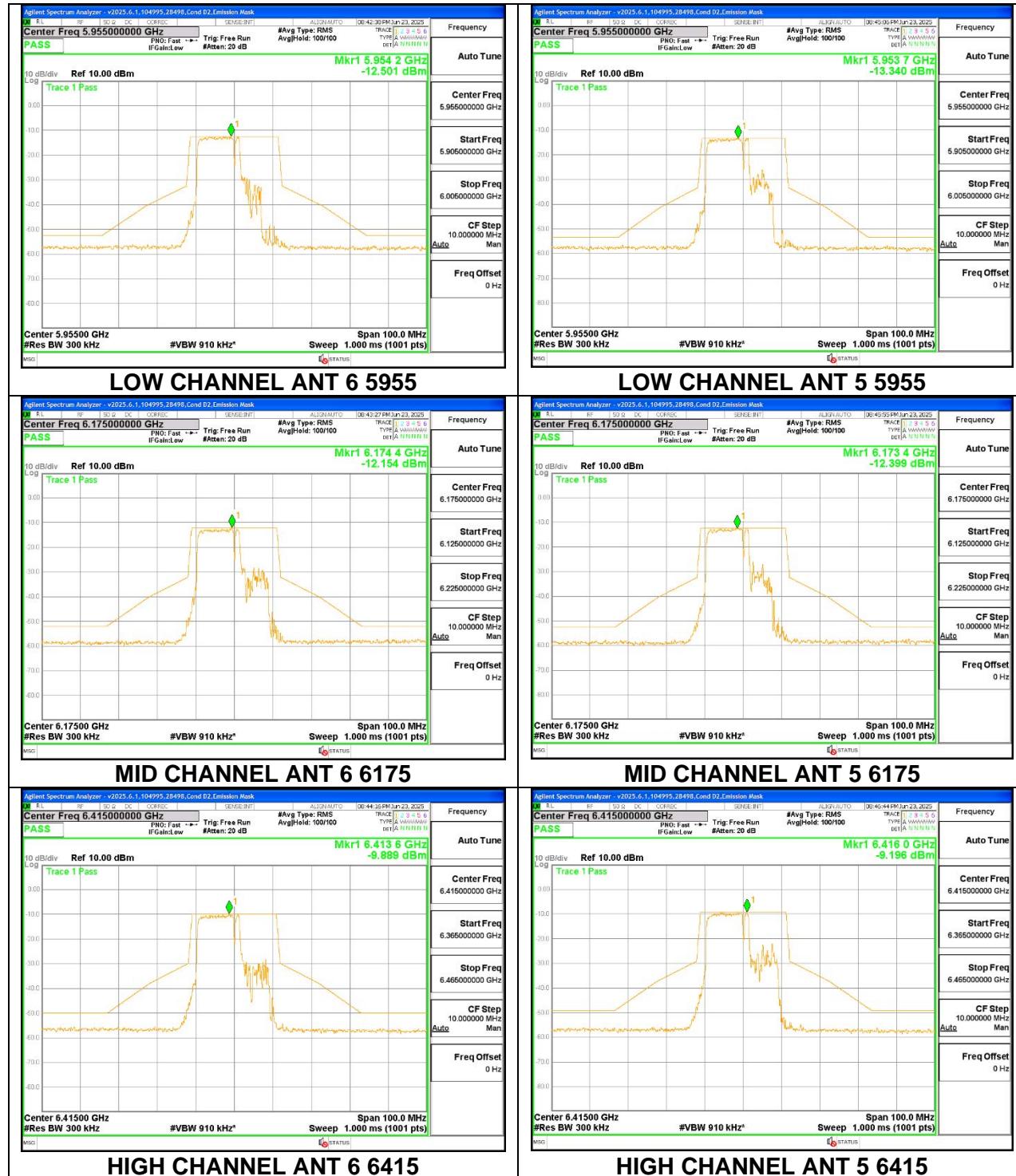
HIGH CHANNEL ANT 5 6415

2TX CDD MODE (FCC + IC) – MRU106+26T-Tones, RU Index 83

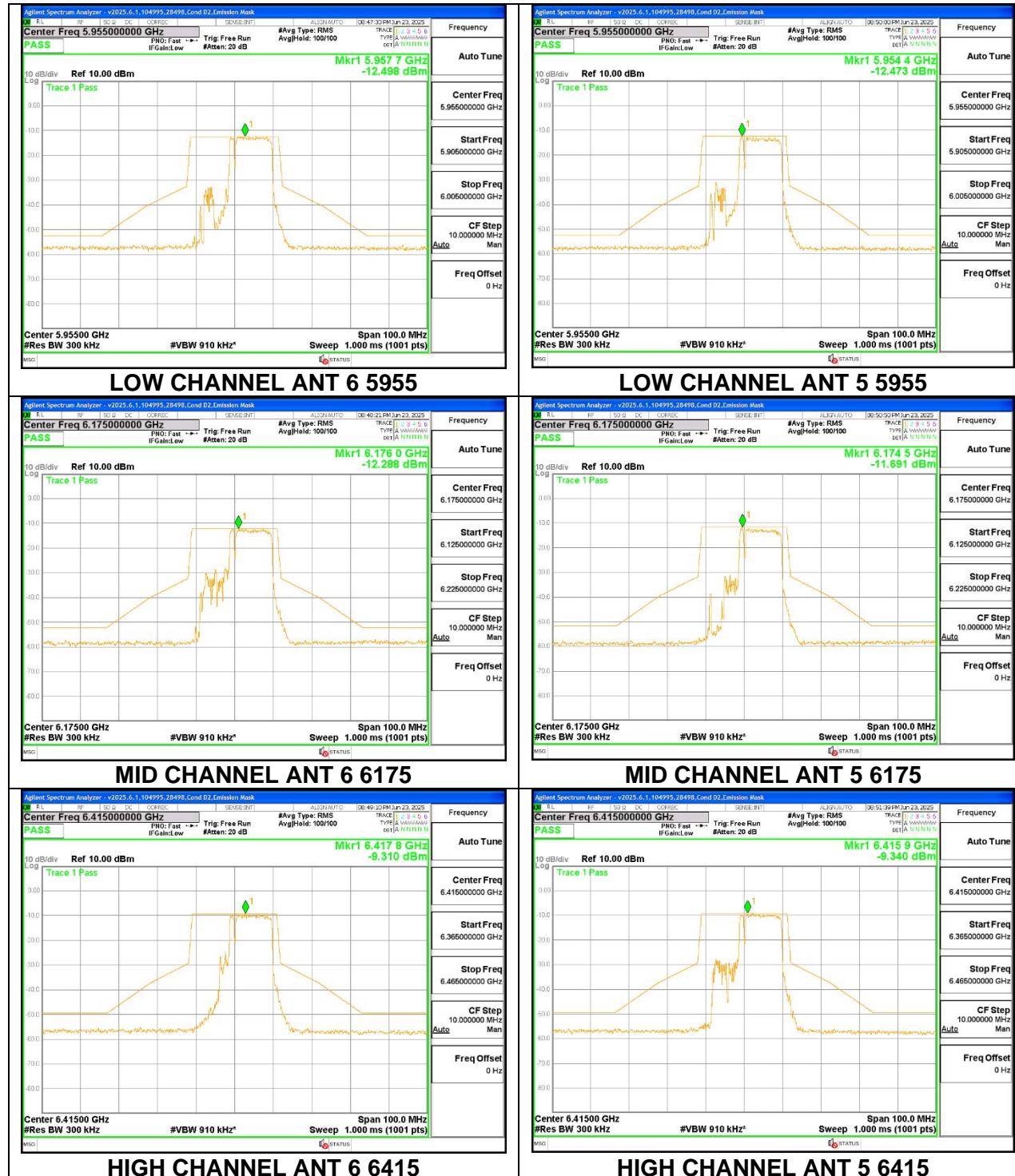


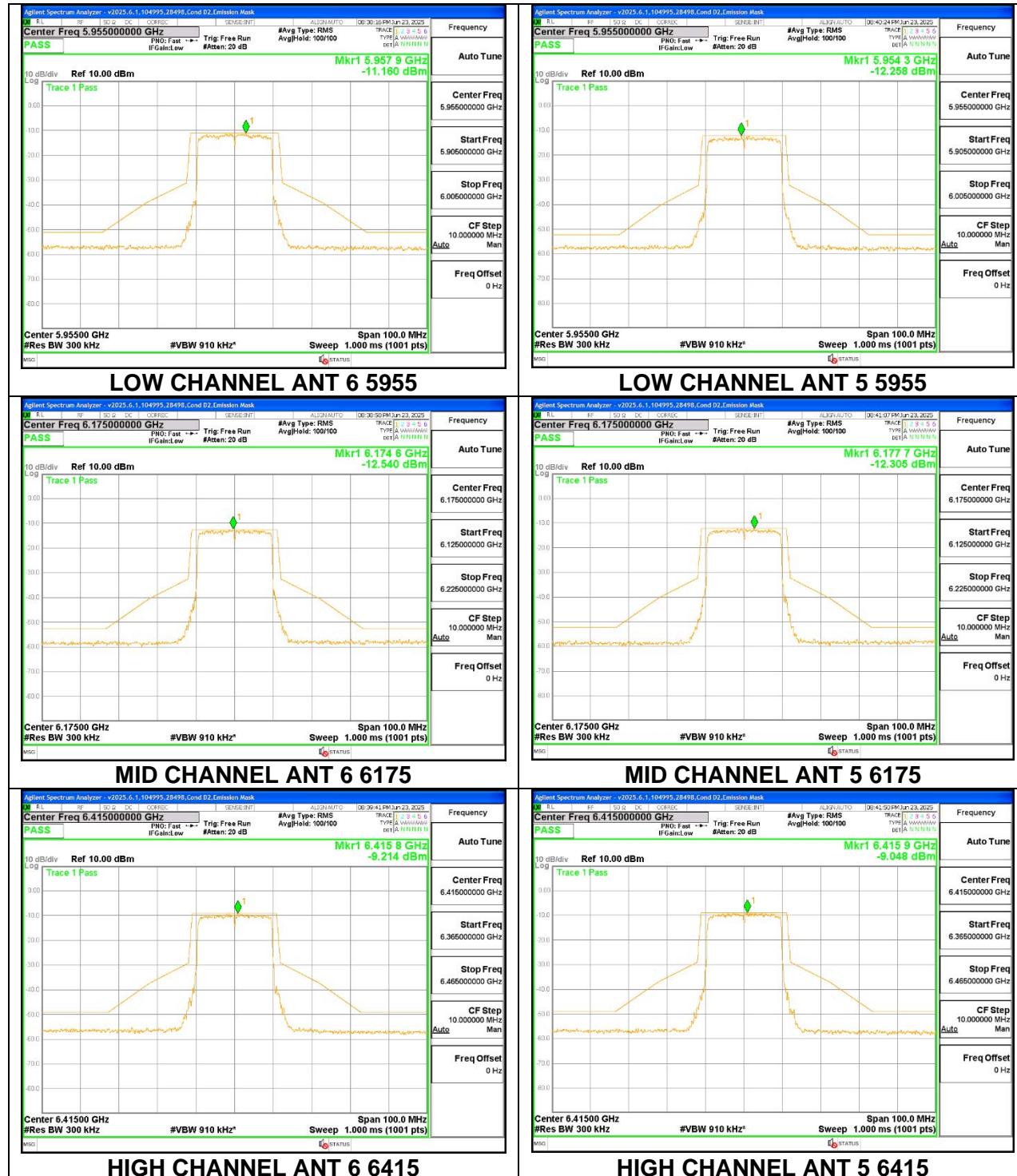
2TX CDD MODE (FCC + IC) – SU MODE

2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 82



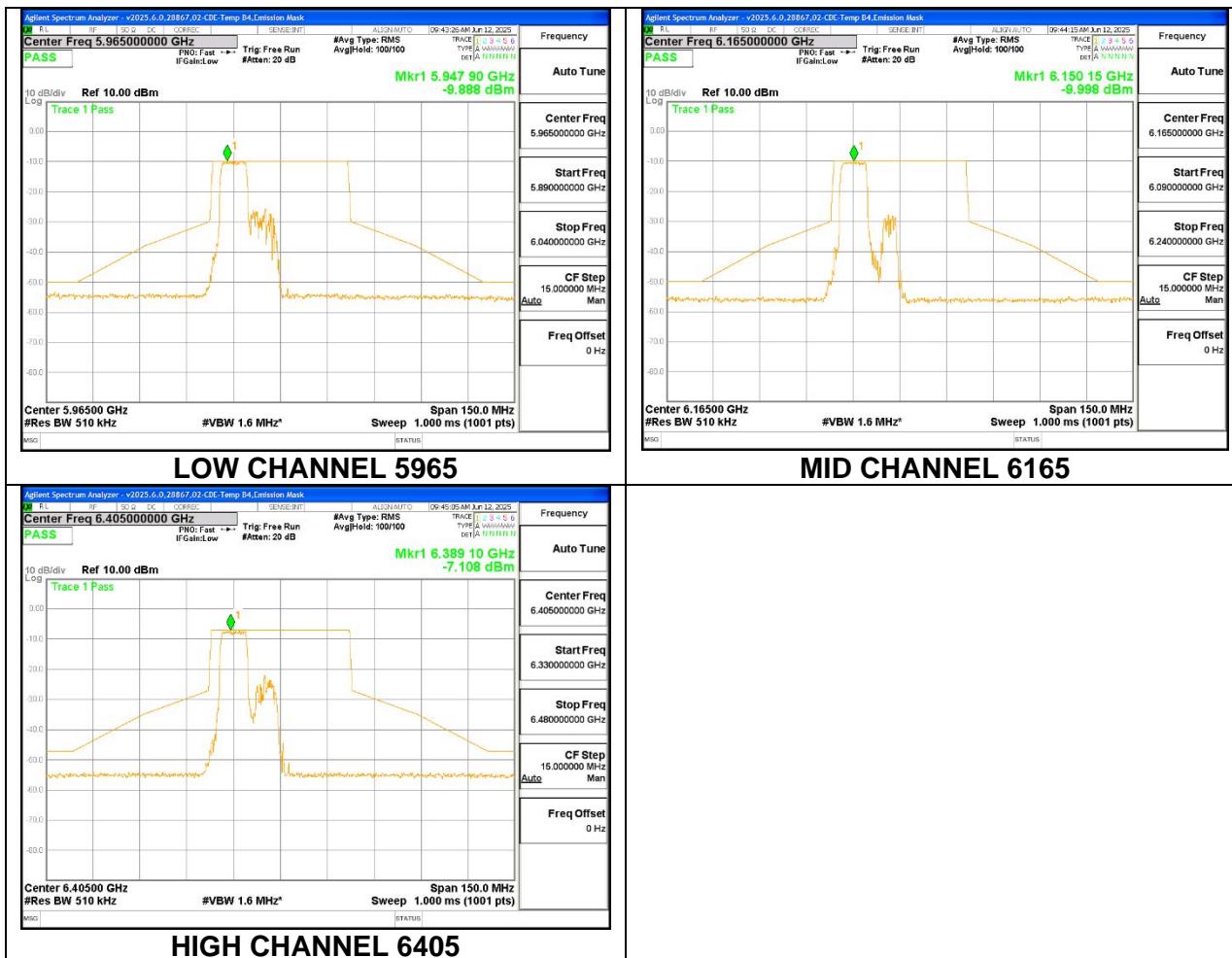
2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – MRU106+26-Tones, RU Index 83



2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – SU Mode

9.8.2. 802.11be EHT40 MODE IN THE UNII-5 BAND

1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53



1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54

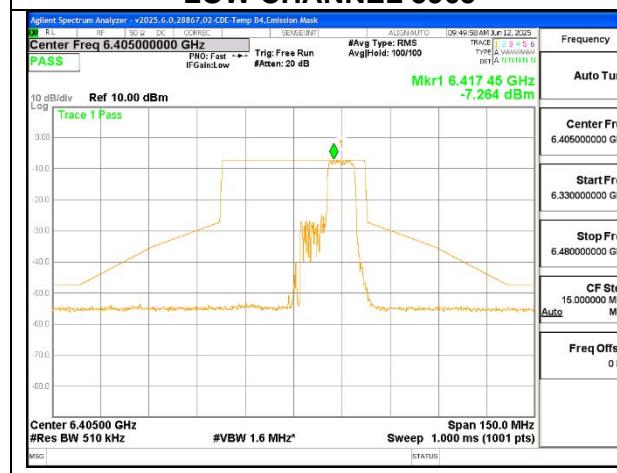


MID CHANNEL 6165

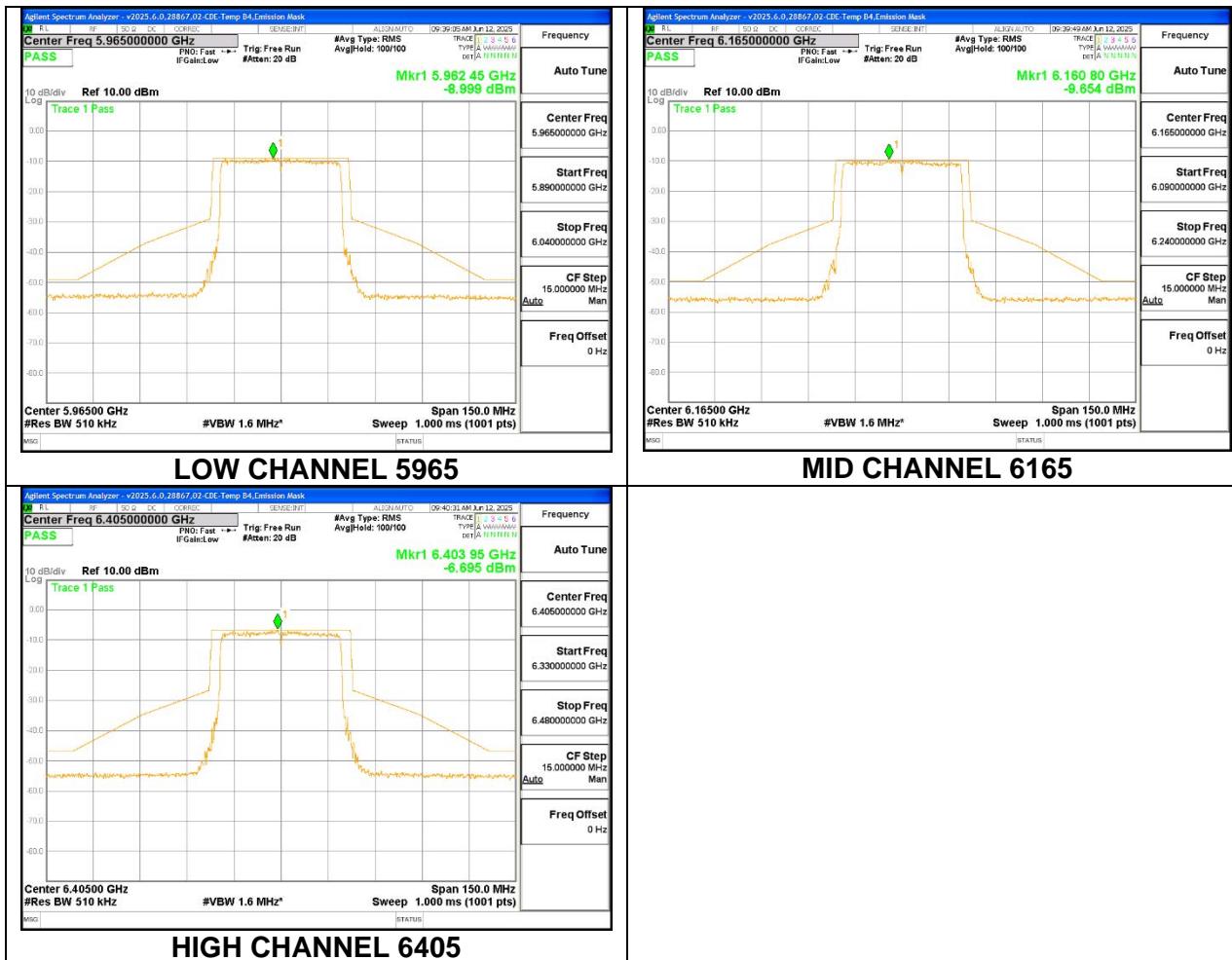
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 56

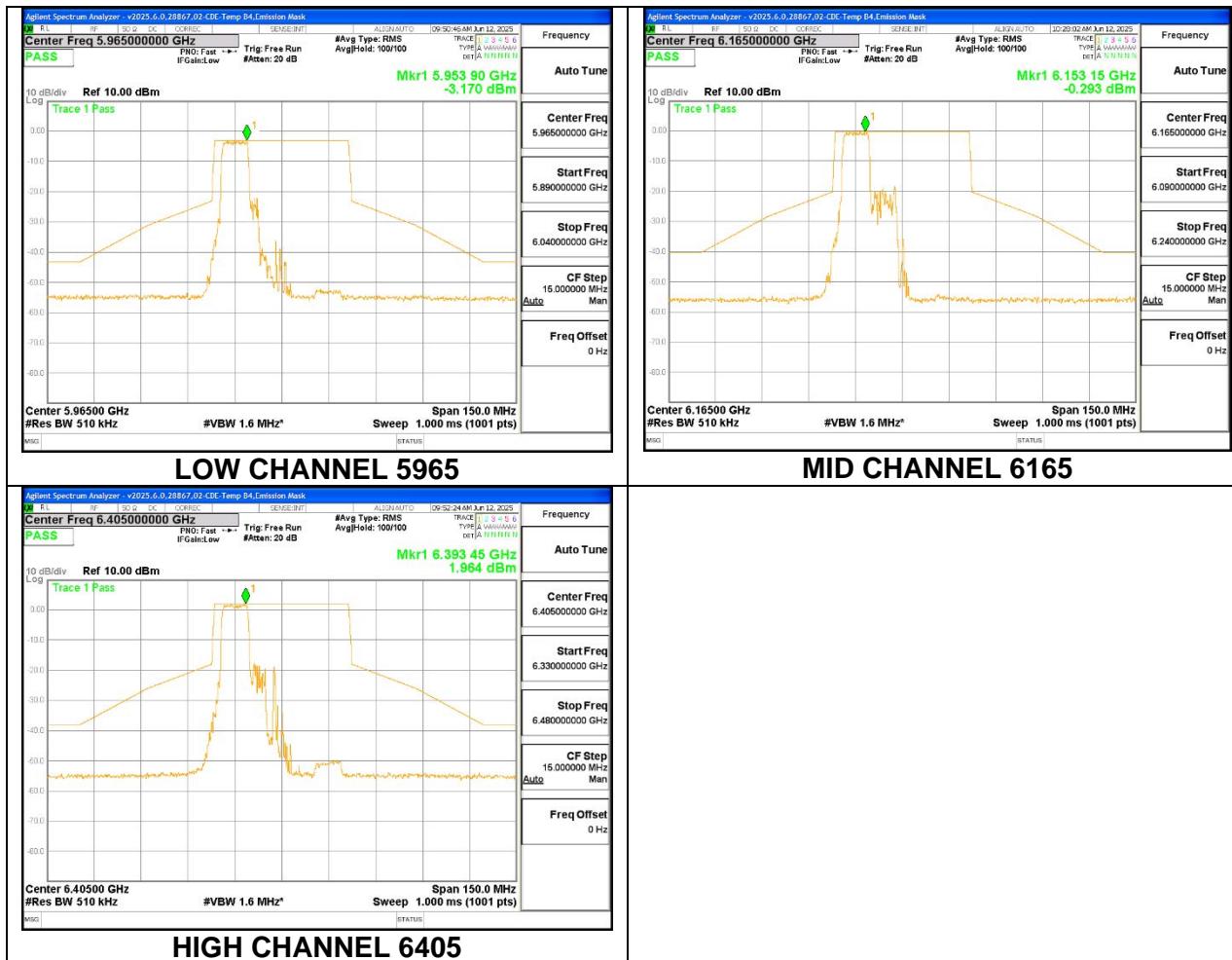


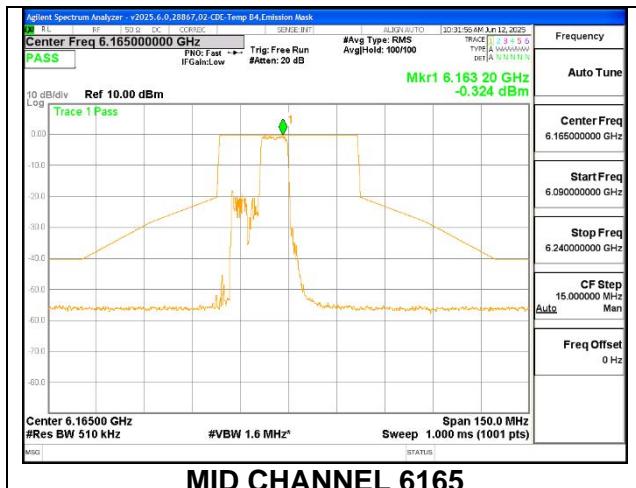
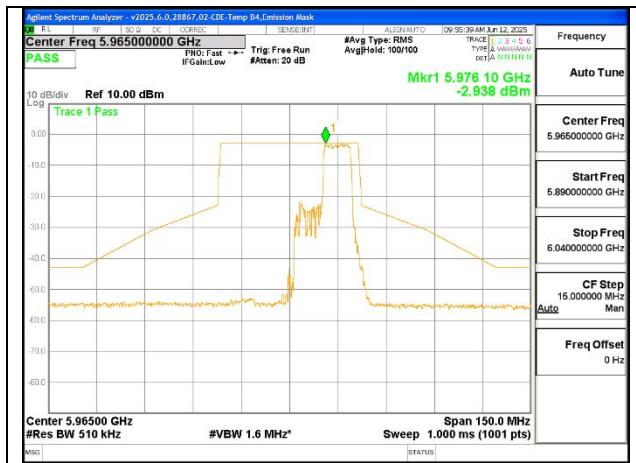
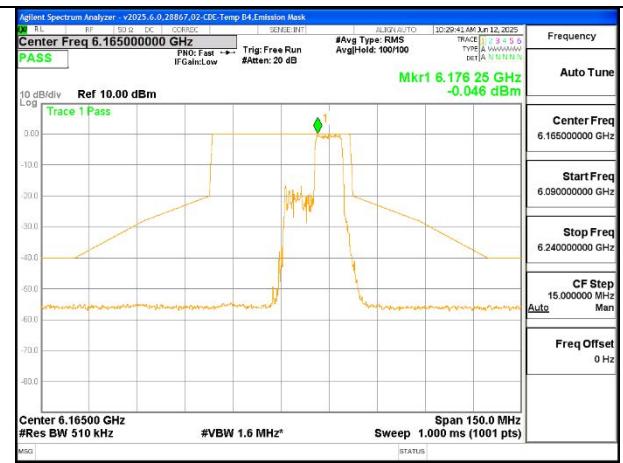
MID CHANNEL 6165

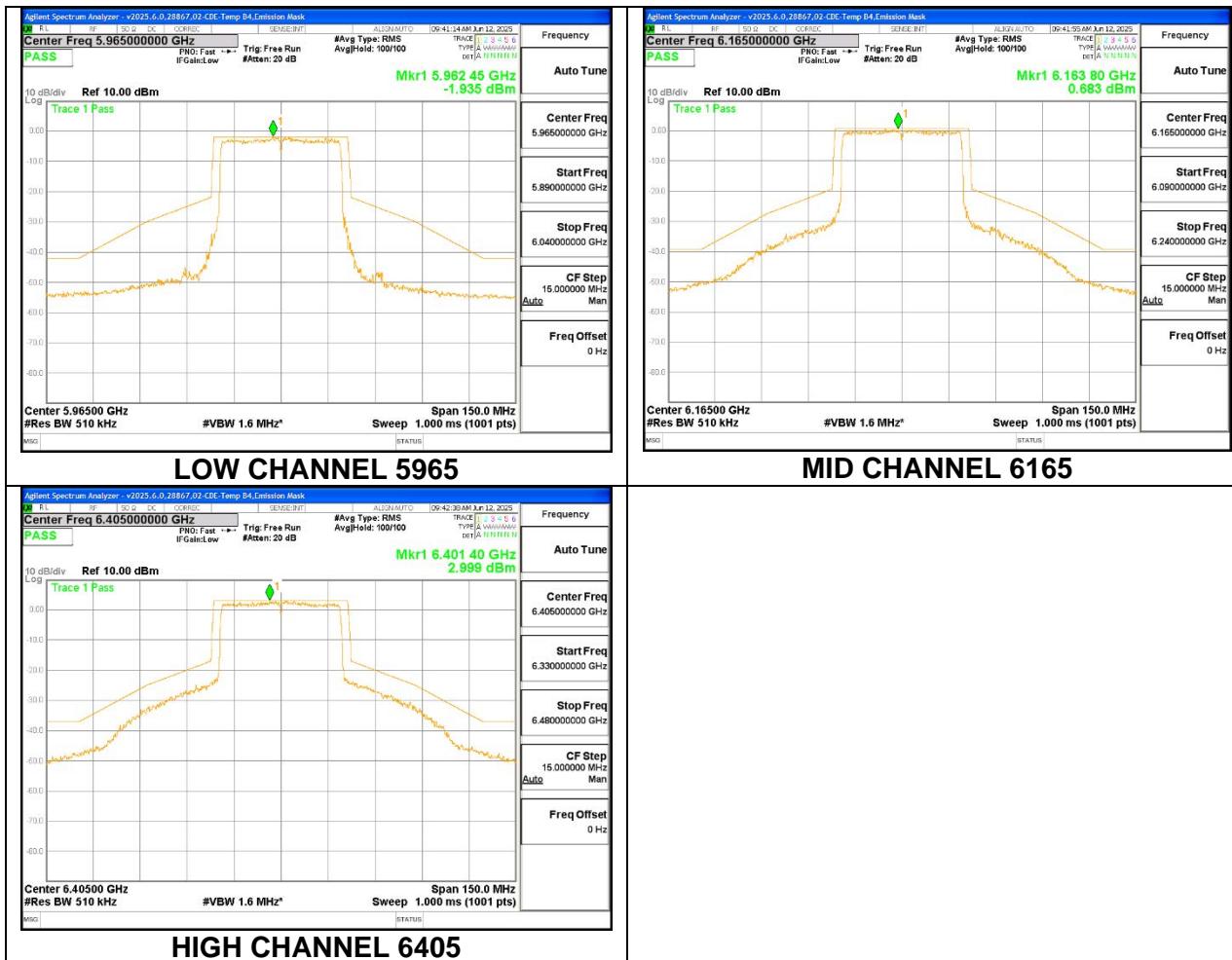


HIGH CHANNEL 6405

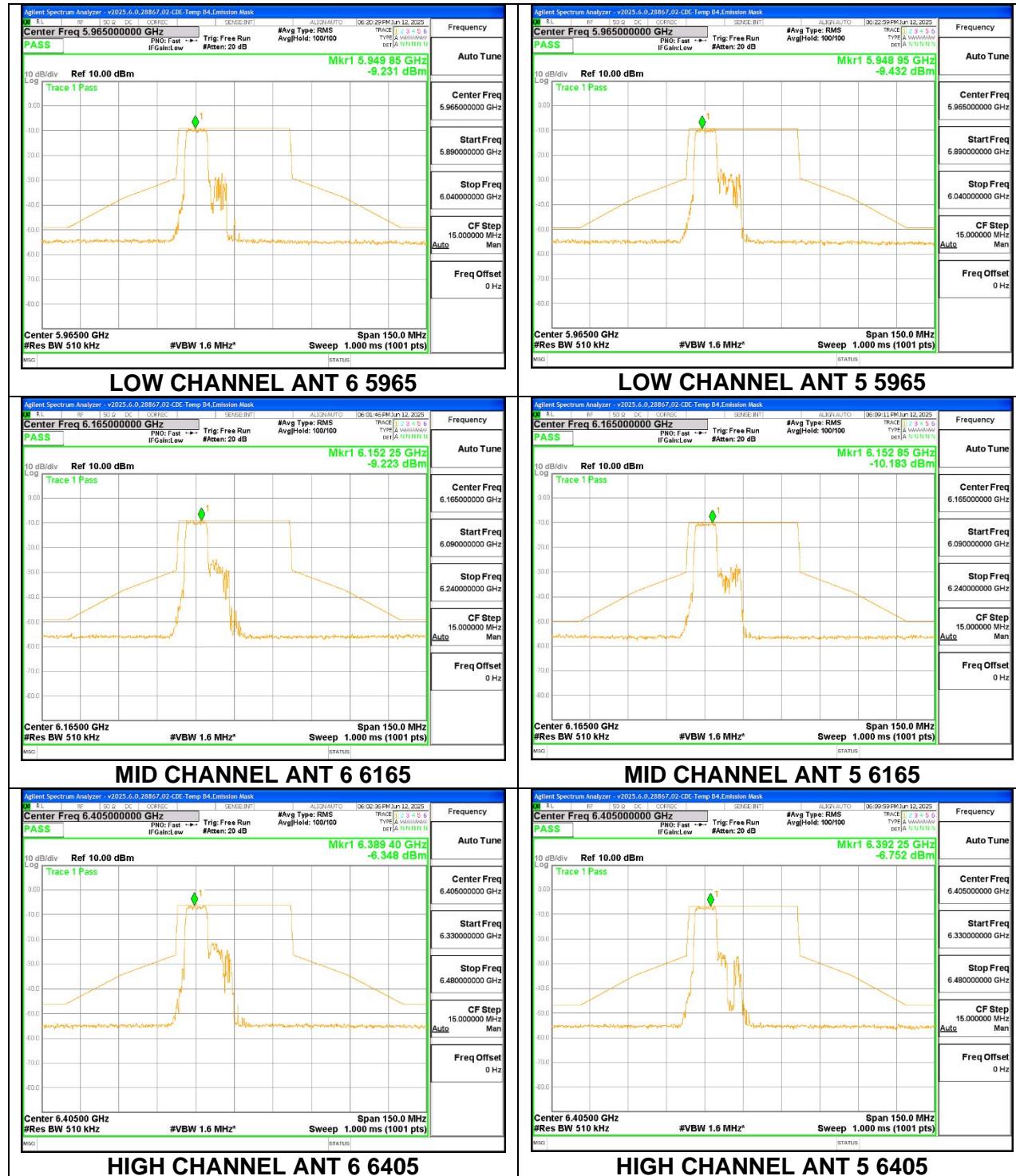
1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE

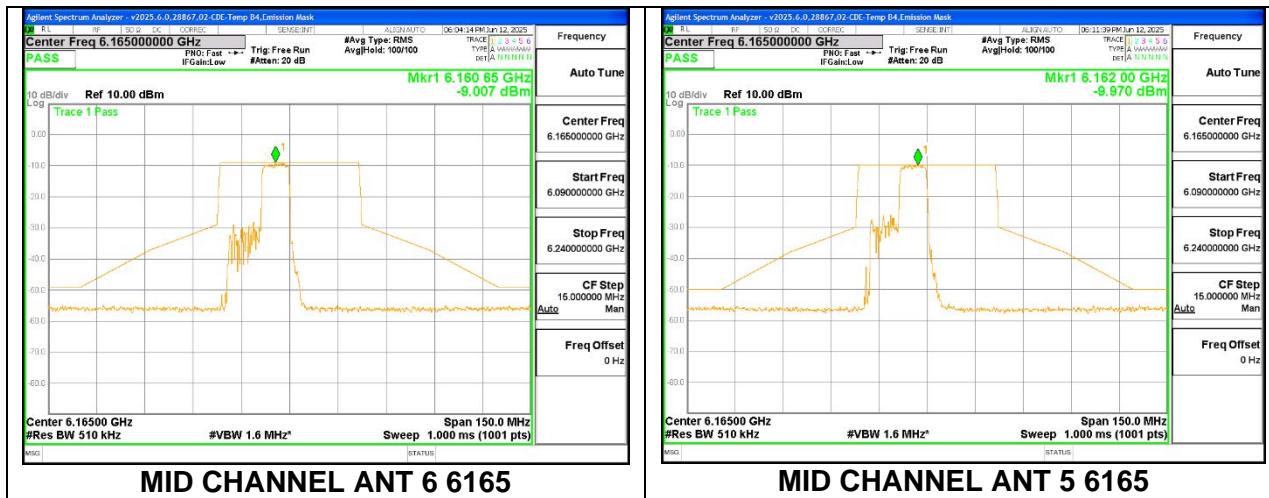
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 53

1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 54**MID CHANNEL 6165****1TX Antenna 5 MODE (FCC+IC) MOBILE – 106-Tones, RU Index 56****LOW CHANNEL 5965****MID CHANNEL 6165****HIGH CHANNEL 6405**

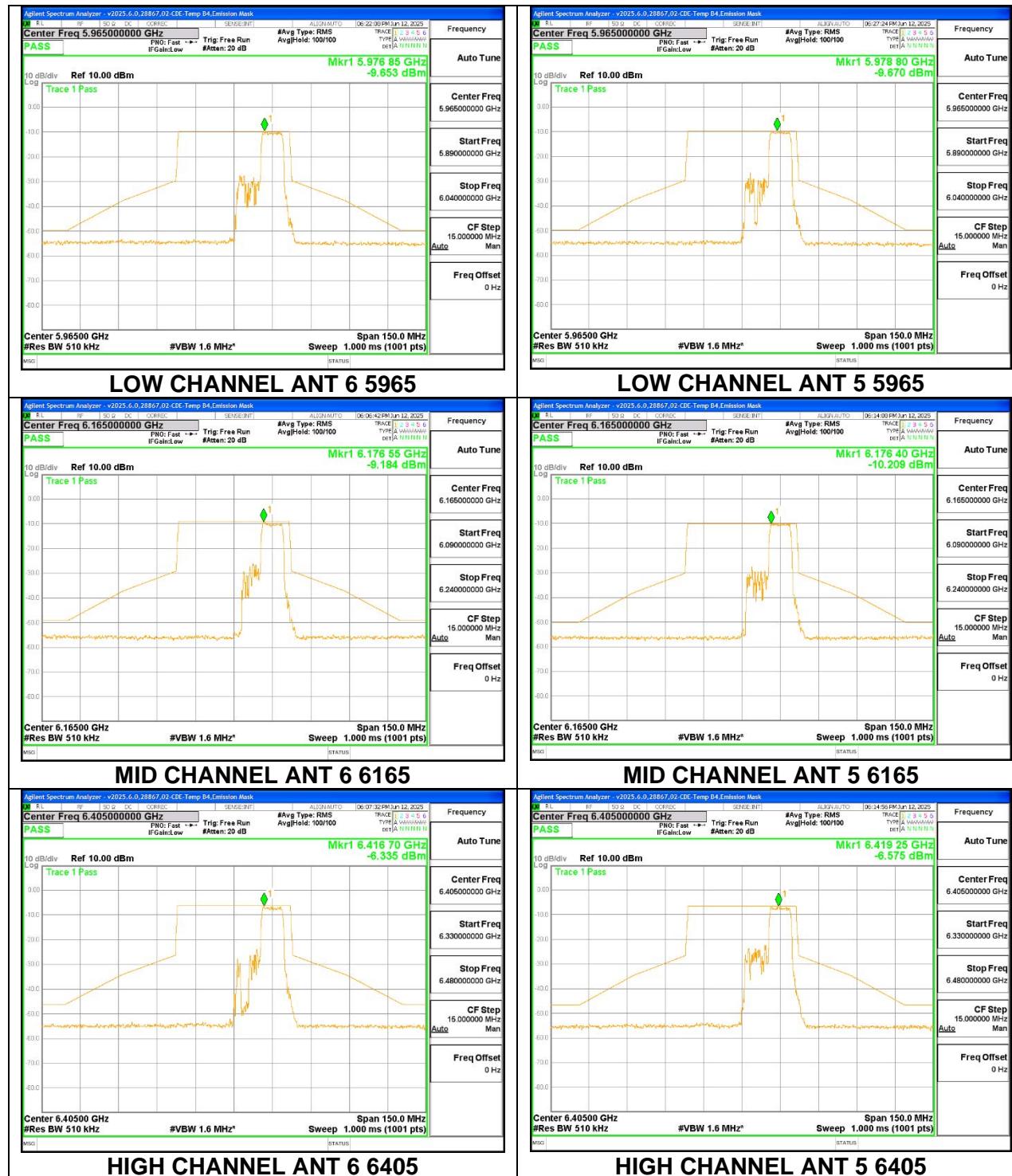
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE

2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 53

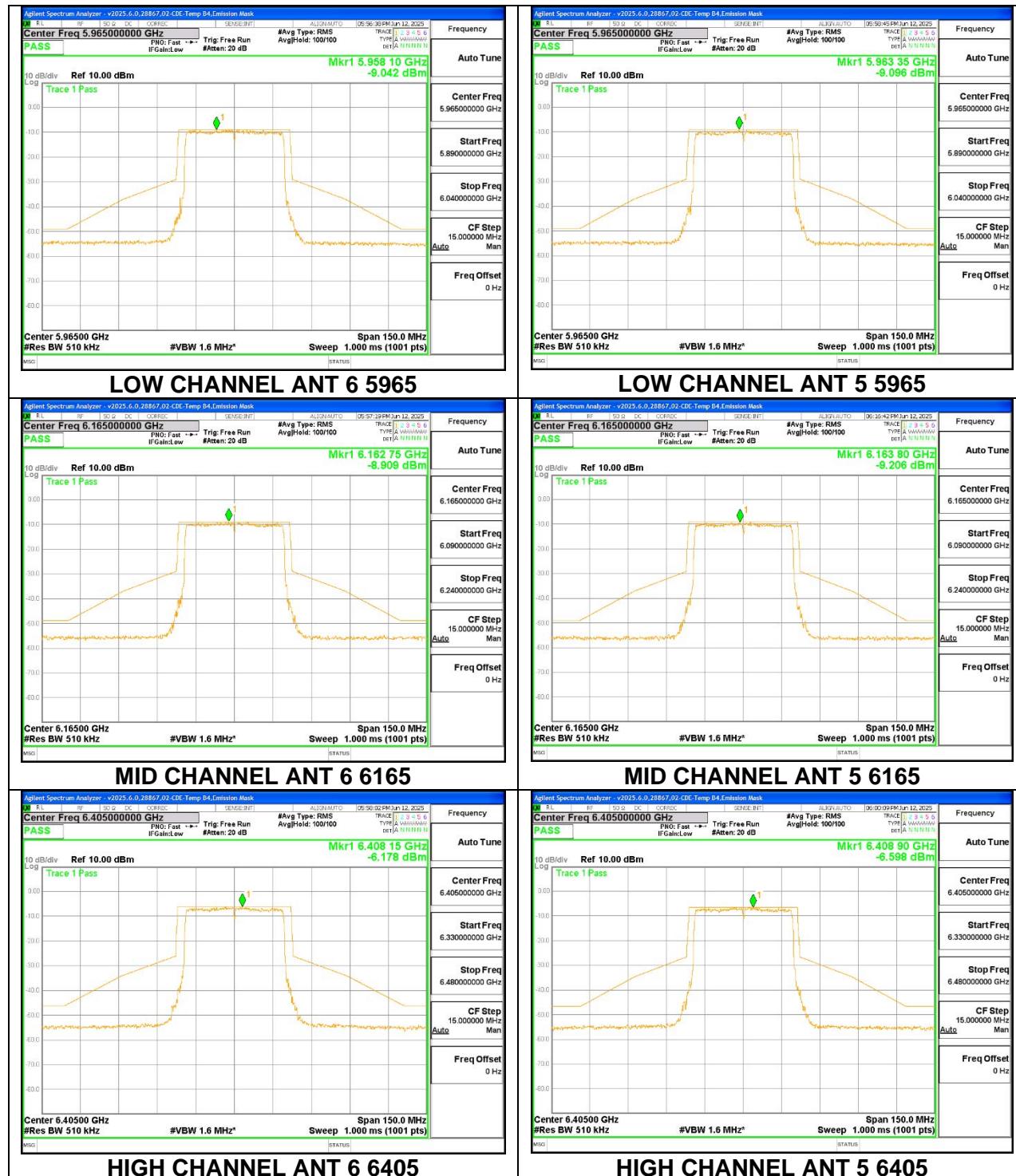


2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 54

2TX CDD MODE (FCC + IC) – 106-Tones, RU Index 56



2TX CDD MODE (FCC + IC) – SU MODE



2TX Antenna 6 + Antenna 5 SDM MODE (FCC + IC) – 106-Tones, RU Index 53

