

## 9.10. VLP 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 v01r01, Section II-J, RBW & VBW settings were based on 26dB bandwidth test settings. Only Partial RU 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	RU 52T: 300kHz/910kHz RU 106T: 300kHz/910kHz MRU 106+26T: 300kHz/910kHz	RU 52T: 510kHz/1.6MHz RU 106T: 510kHz/1.6MHz MRU 106+26T: 510kHz/1.6MHz RU 242T: 510kHz/1.6MHz	RU 106T: 510kHz/1.6MHz MRU 106+26T: 510kHz/1.6MHz RU 242T: 510kHz/1.6MHz RU 484T: 510kHz/1.6MHz MRU 484+242T: 1MHz/3MHz	MRU 52+26T: 510kHz/1.6MHz RU106T: 510kHz/1.6MHz MRU 106+26T: 510kHz/1.6MHz RU 242T: 510kHz/1.6MHz RU 996T: 1MHz/3MHz MRU 996+484T: 2MHz/6MHz
	SU	300kHz/910kHz	510kHz/1.6MHz	1MHz/3MHz	2MHz/6MHz

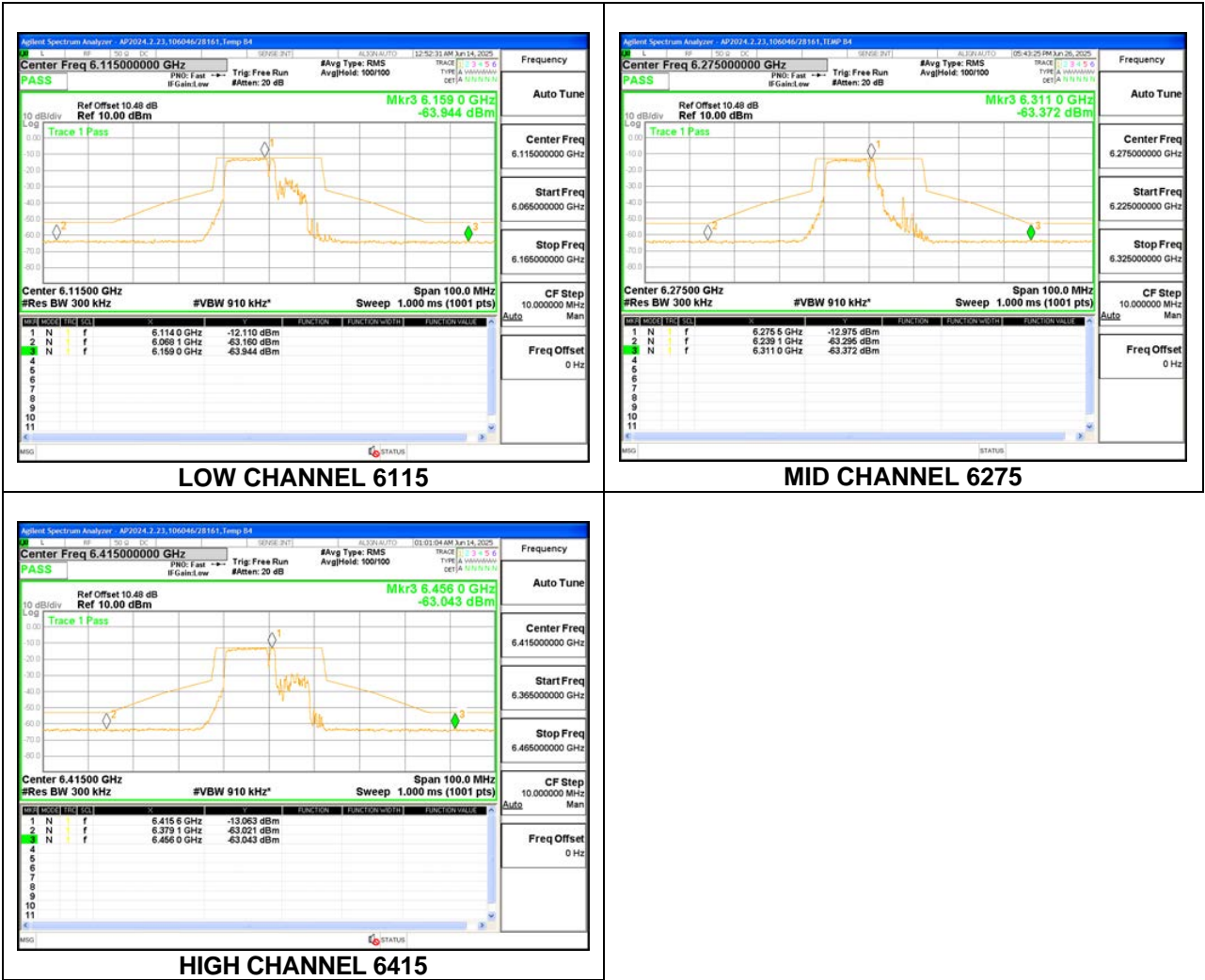
\*Different RBW/VBW settings due to different partial tones.

### RESULTS

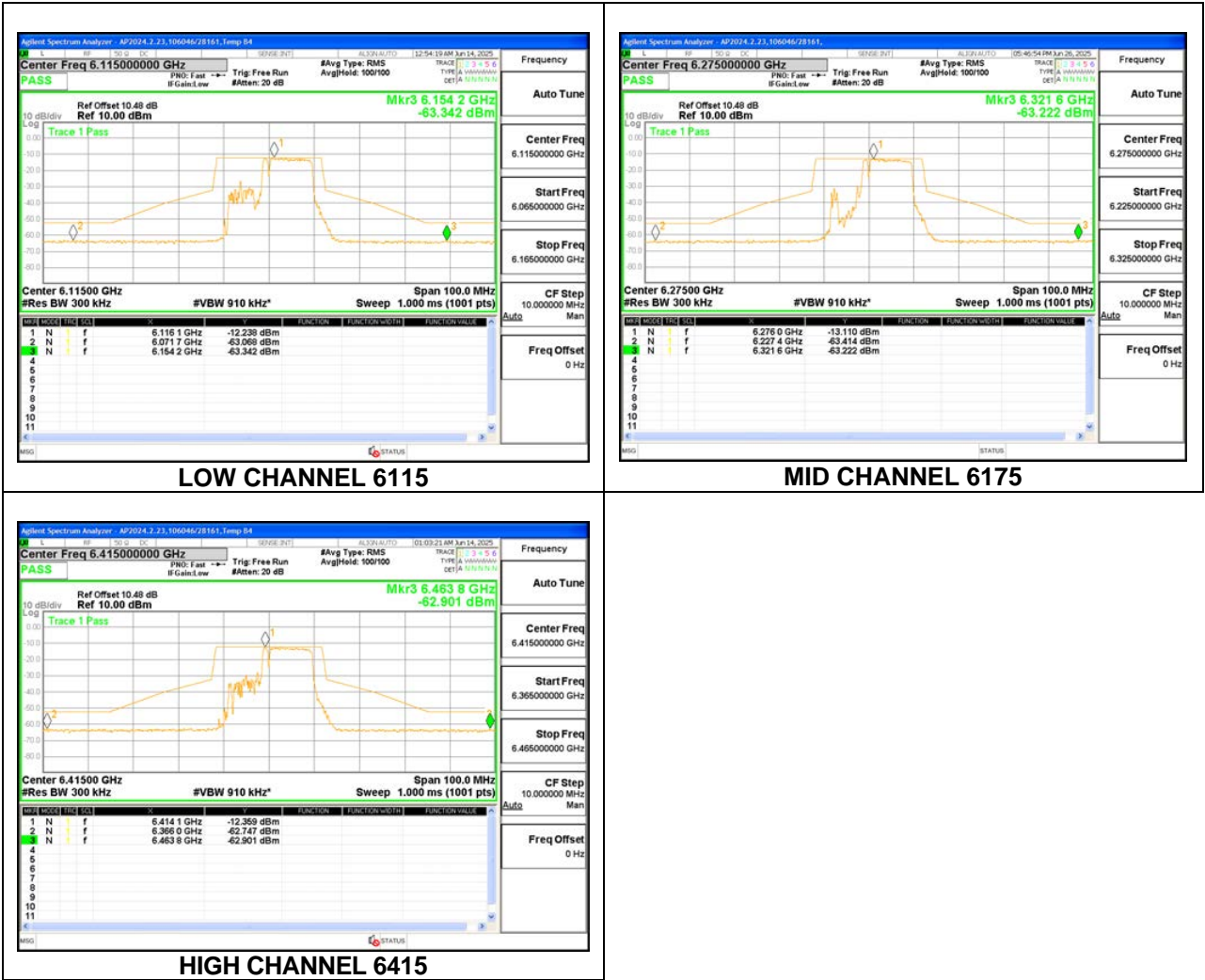
For mask and bandwidth measurements partial RU allocations are tested with the RUs allocated at the lower and upper positions within the channel for the low mid and high channels in each band. Additionally, the center channel is also tested with the RU allocated in the center of the channel to verify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

9.10.1. 802.11be EHT20 MODE IN THE UNII-5 BAND

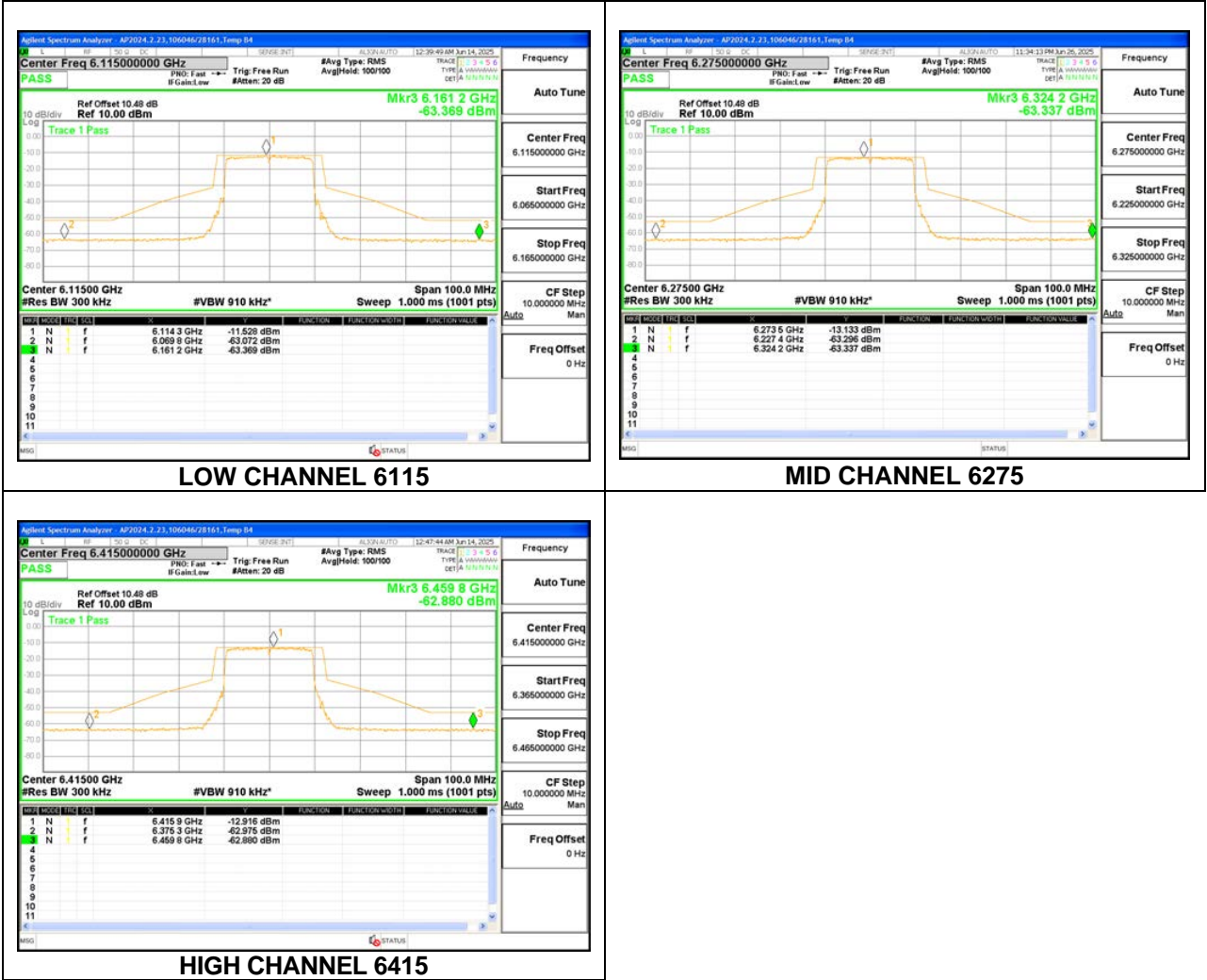
1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 82

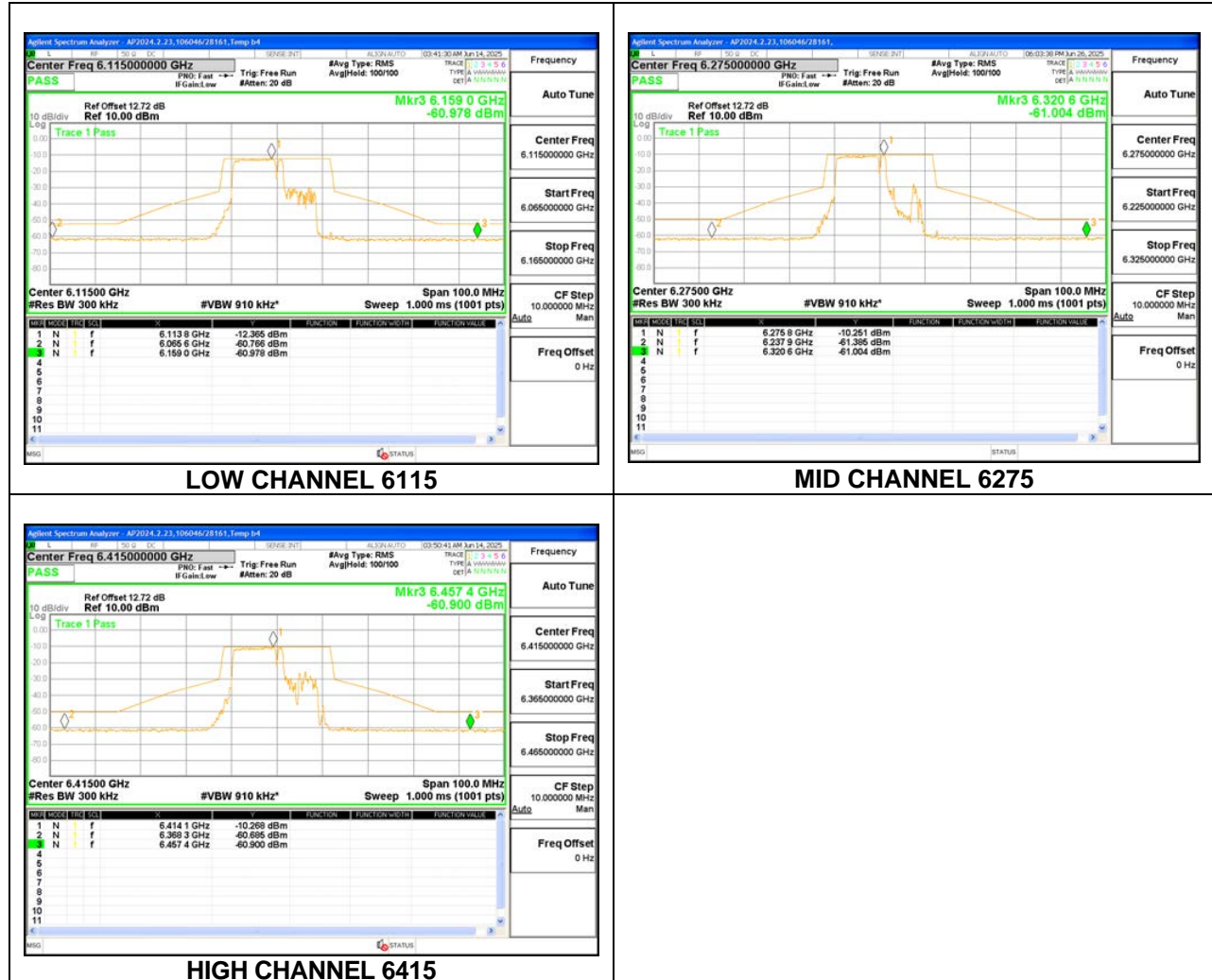


1TX Antenna 6 MODE (FCC-IC) MOBILE – 106+26-Tone, RU Index 83

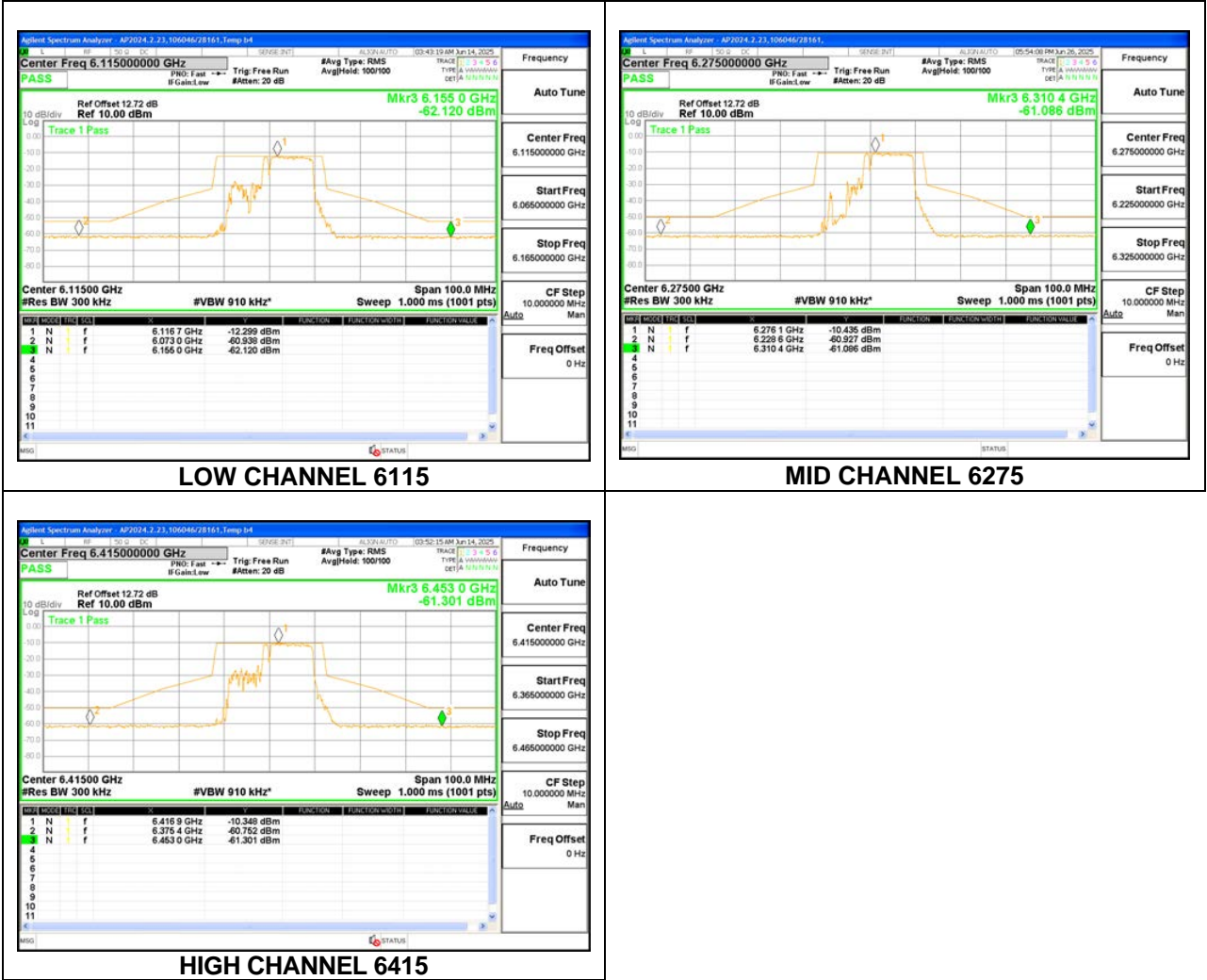


1TX Antenna 6 MODE (FCC+IC) MOBILE – SU MODE



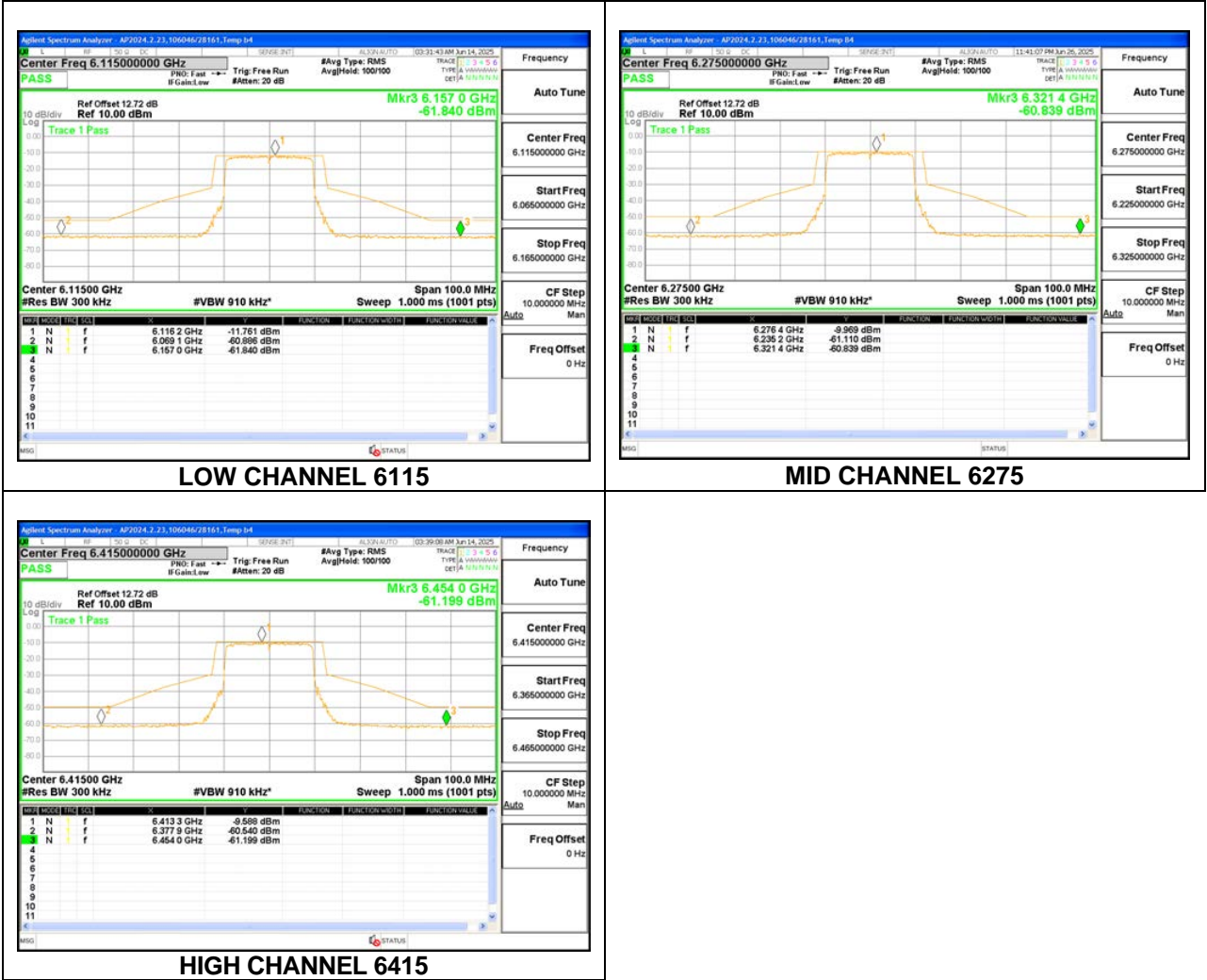
**1TX Antenna 5 MODE (FCC-IC) MOBILE – 106+26-Tone, RU Index 82**

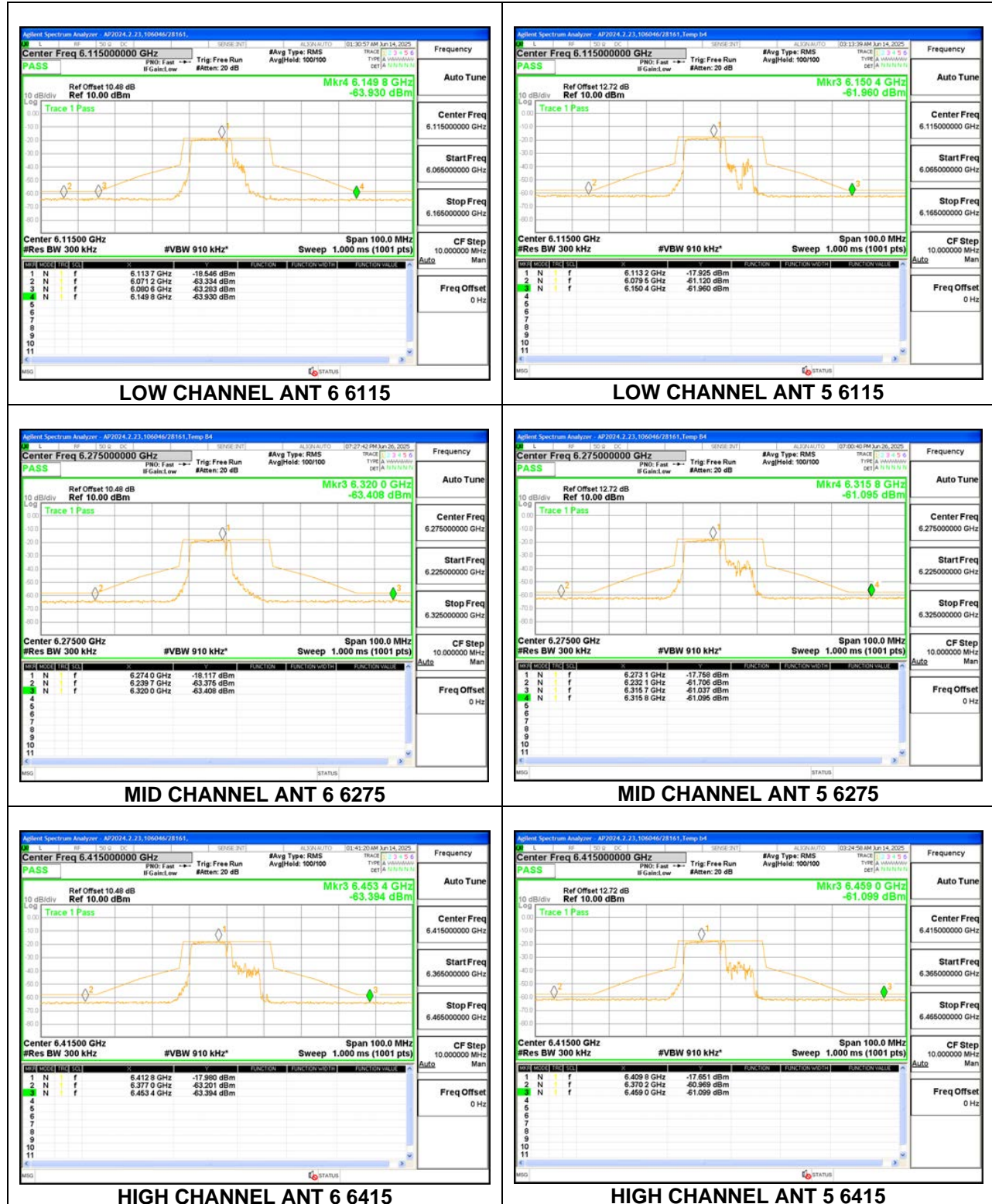
1TX Antenna 5 MODE (FCC-IC) MOBILE – 106+26-Tone, RU Index 83



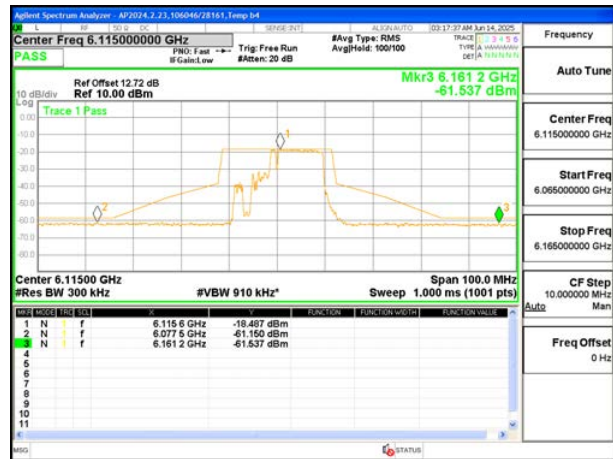
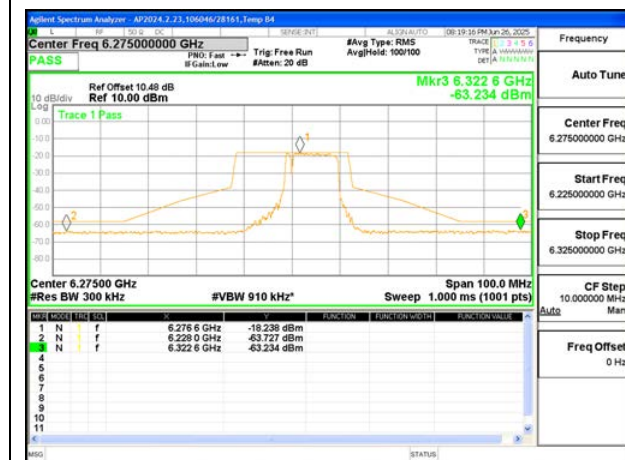


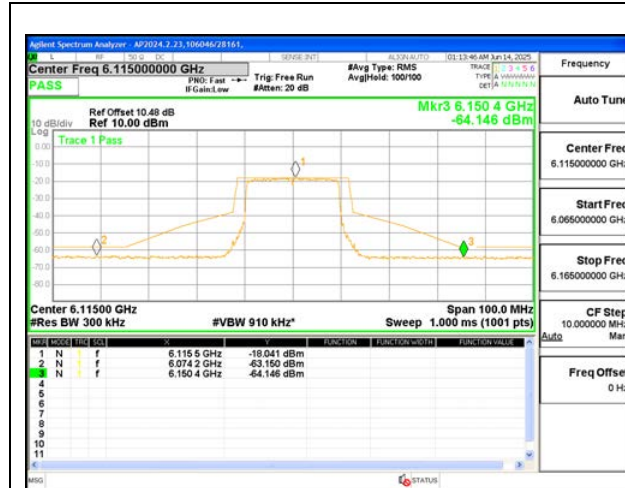
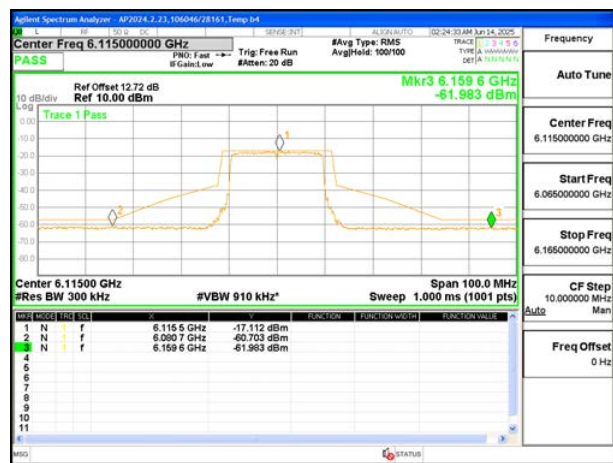
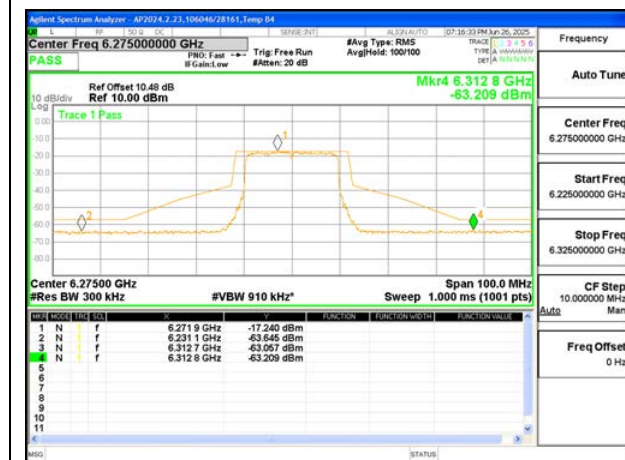
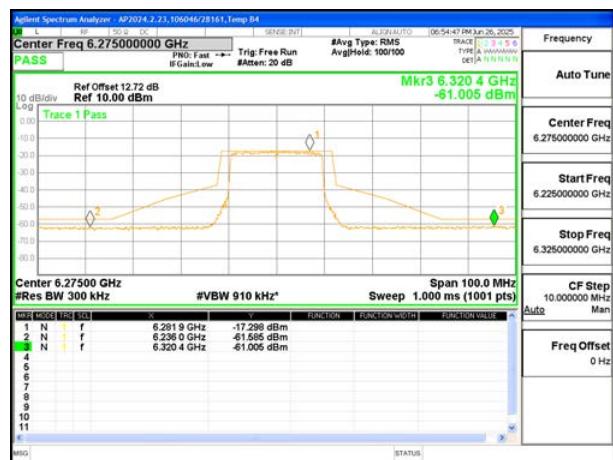
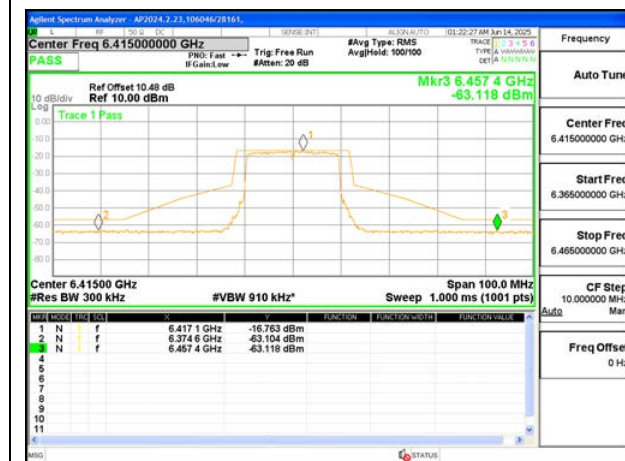
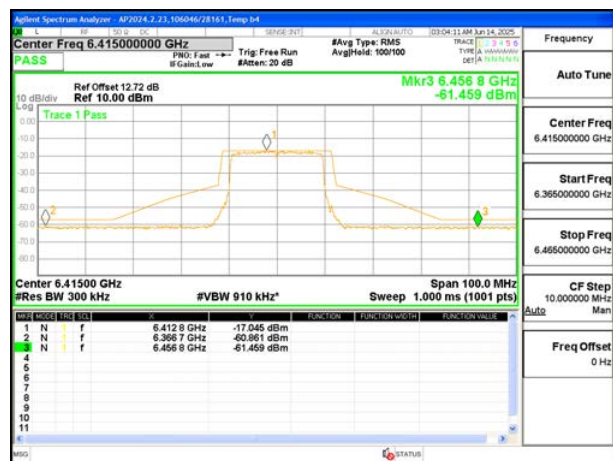
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE



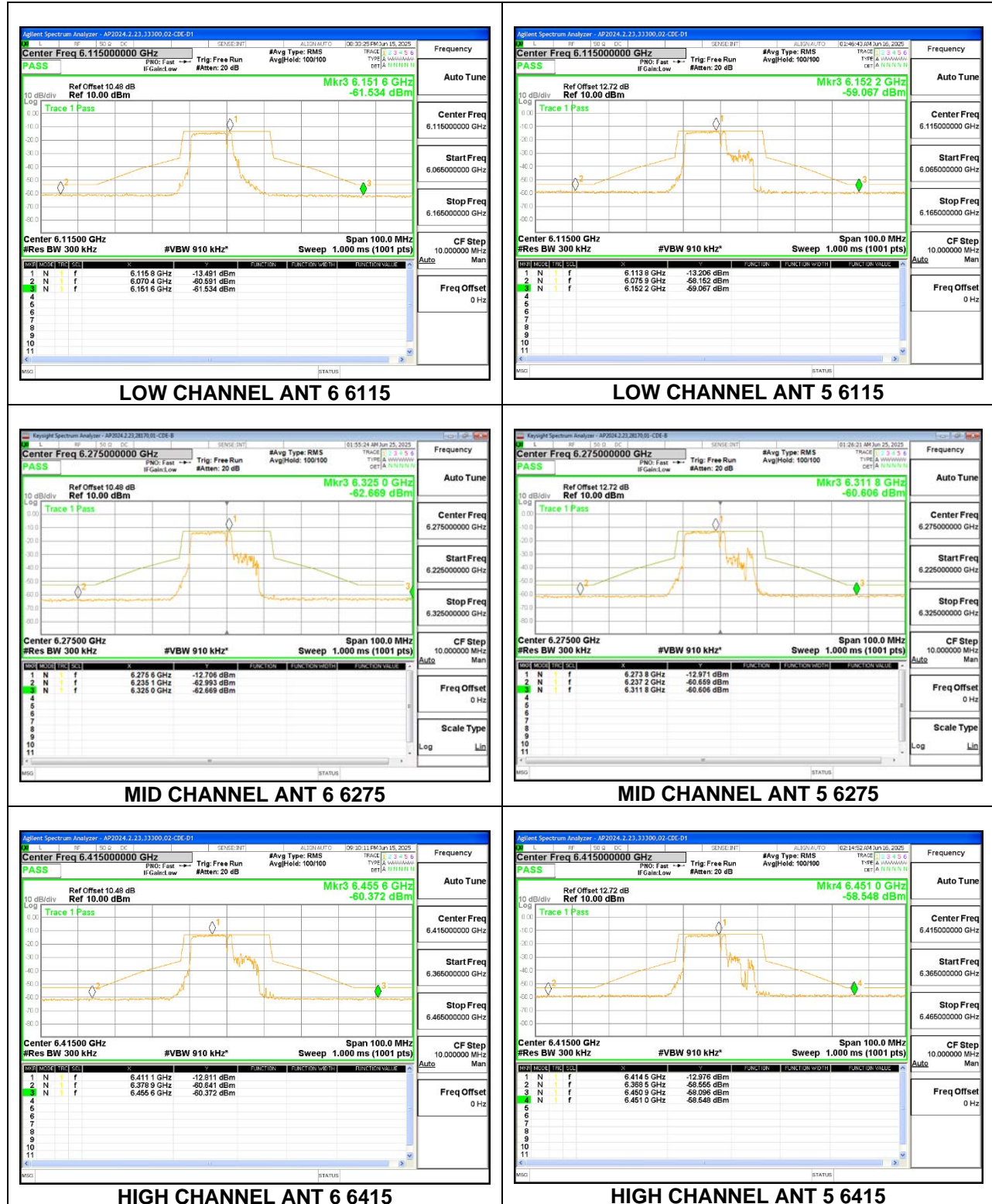
**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 106+26-Tone, RU Index 82**

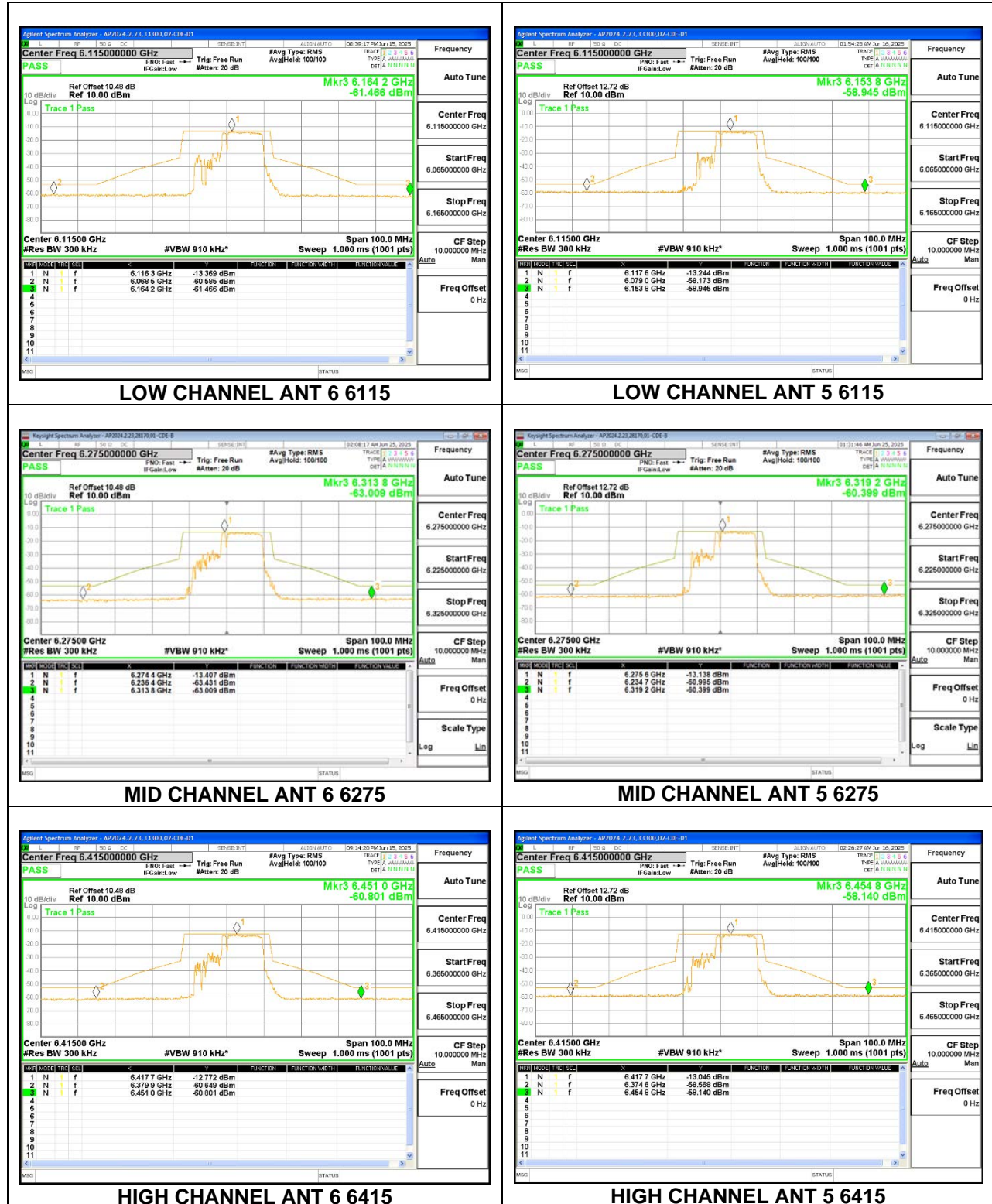


**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 106+26-Tone, RU Index 83****LOW CHANNEL ANT 6 6115****LOW CHANNEL ANT 5 6115****MID CHANNEL ANT 6 6275****MID CHANNEL ANT 5 6275****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – SU MODE****LOW CHANNEL ANT 6 6115****LOW CHANNEL ANT 5 6115****MID CHANNEL ANT 6 6275****MID CHANNEL ANT 5 6275****HIGH CHANNEL ANT 6 6415****HIGH CHANNEL ANT 5 6415**

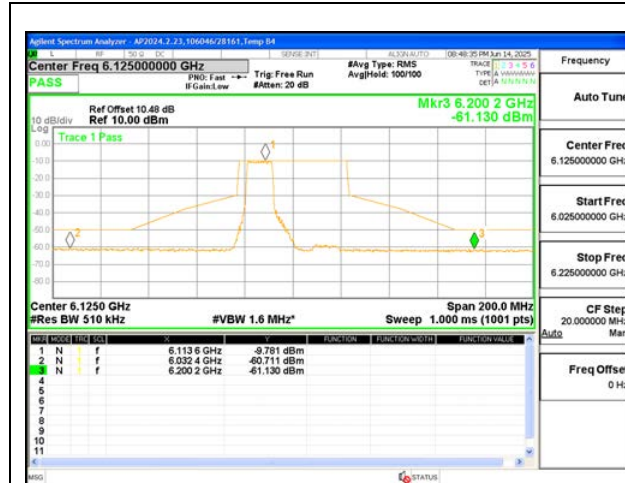
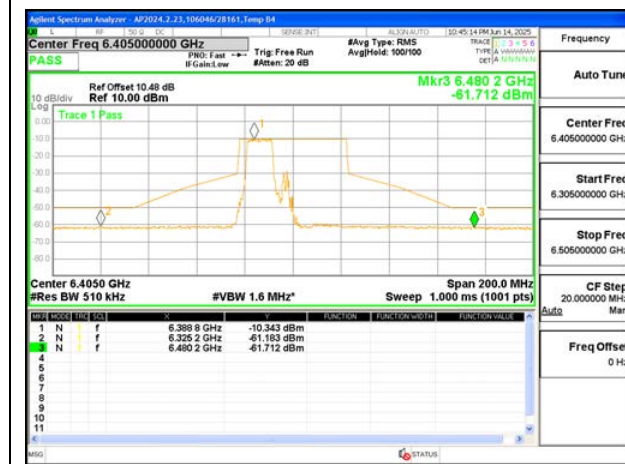


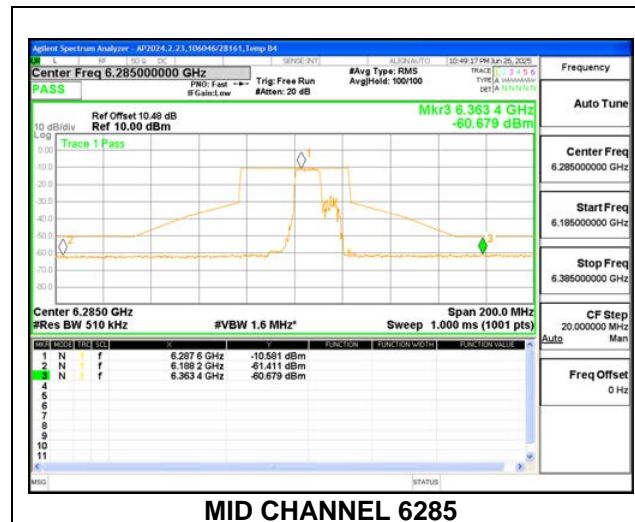
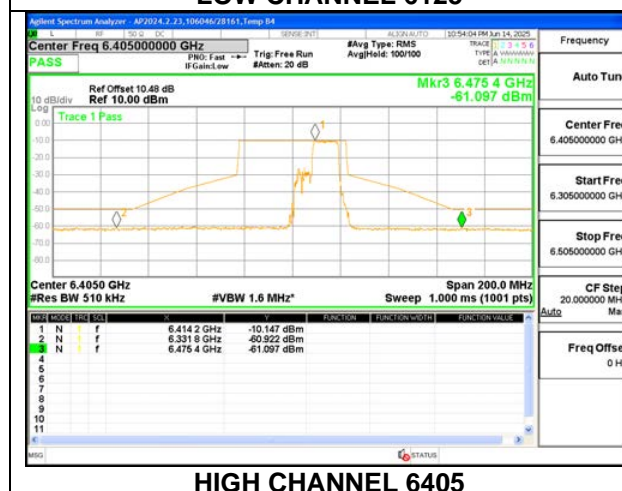
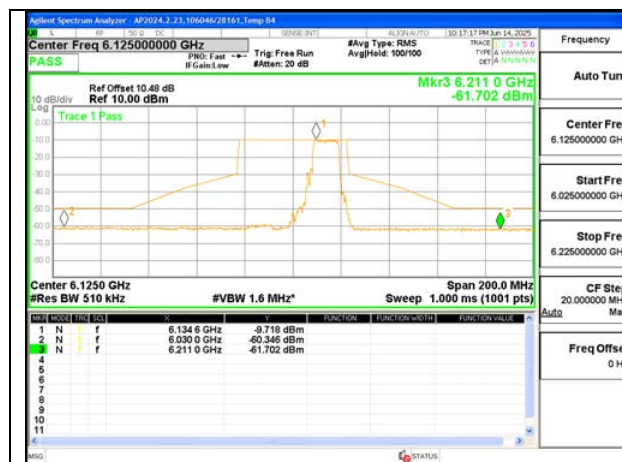
**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 106+26-Tone, RU Index 82**

**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 106+26-Tone, RU Index 83**

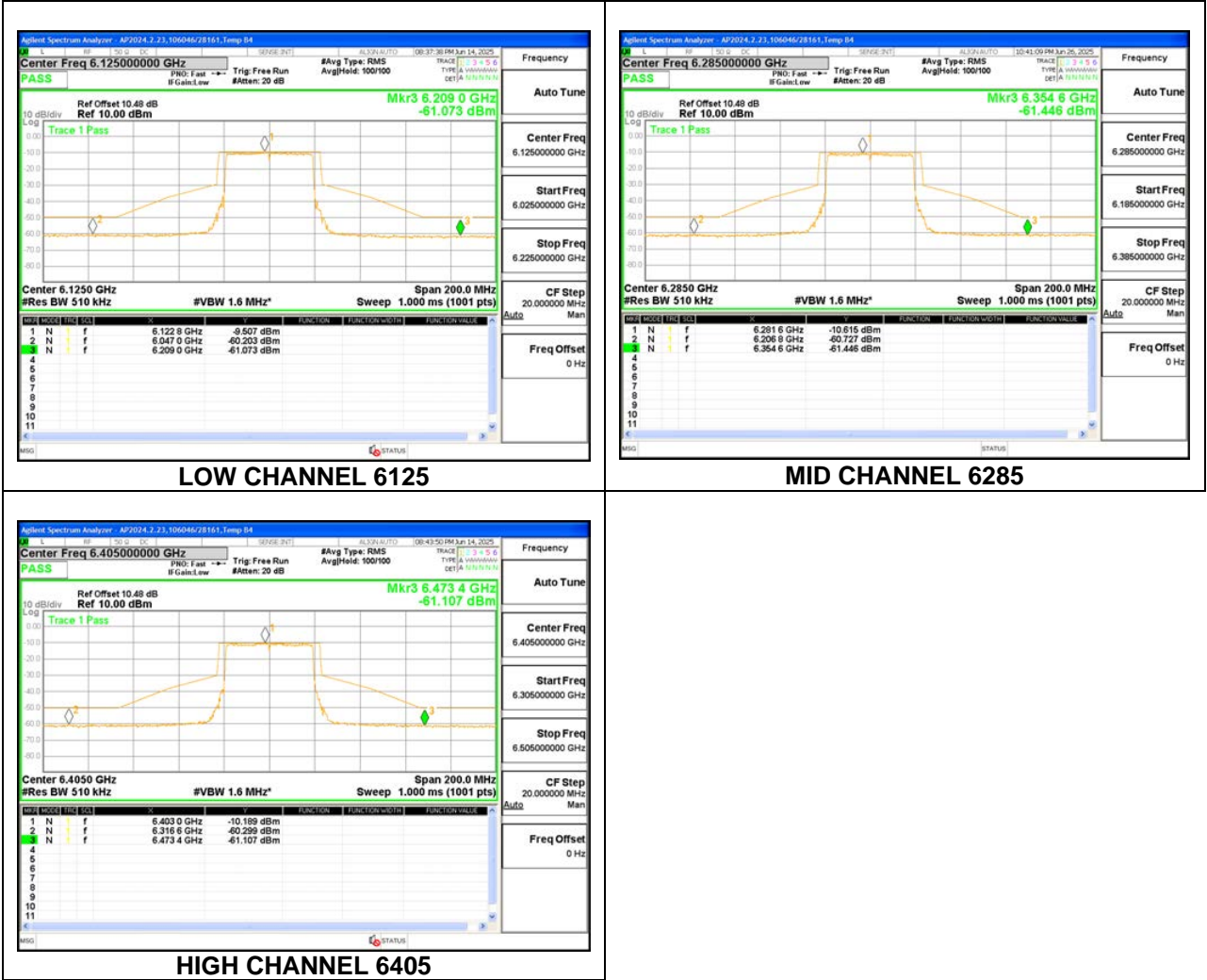
**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – SU MODE**



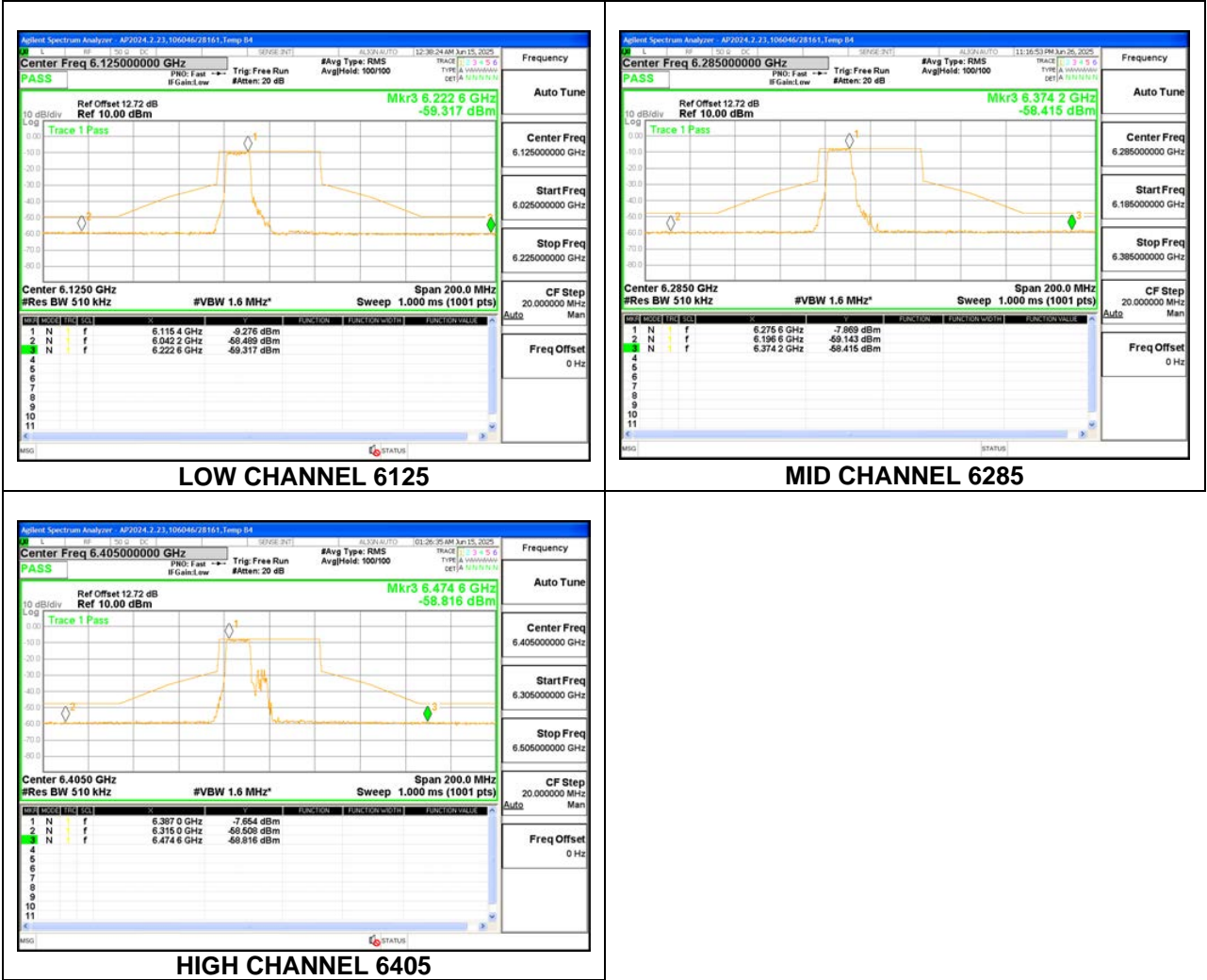
**9.10.2. 802.11be EHT40 MODE IN THE UNII-5 BAND****1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 82****LOW CHANNEL 6125****MID CHANNEL 6285****HIGH CHANNEL 6405**

**1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 84****1TX Antenna 6 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 85**

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

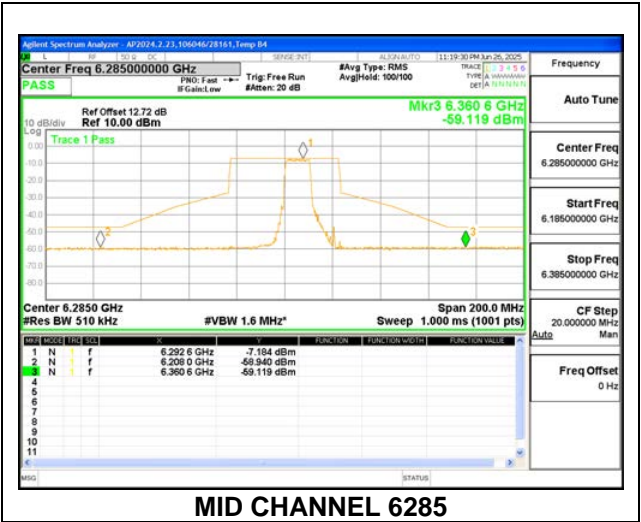


1TX Antenna 5 MODE (FCC-IC) MOBILE – 106+26-Tone, RU Index 82

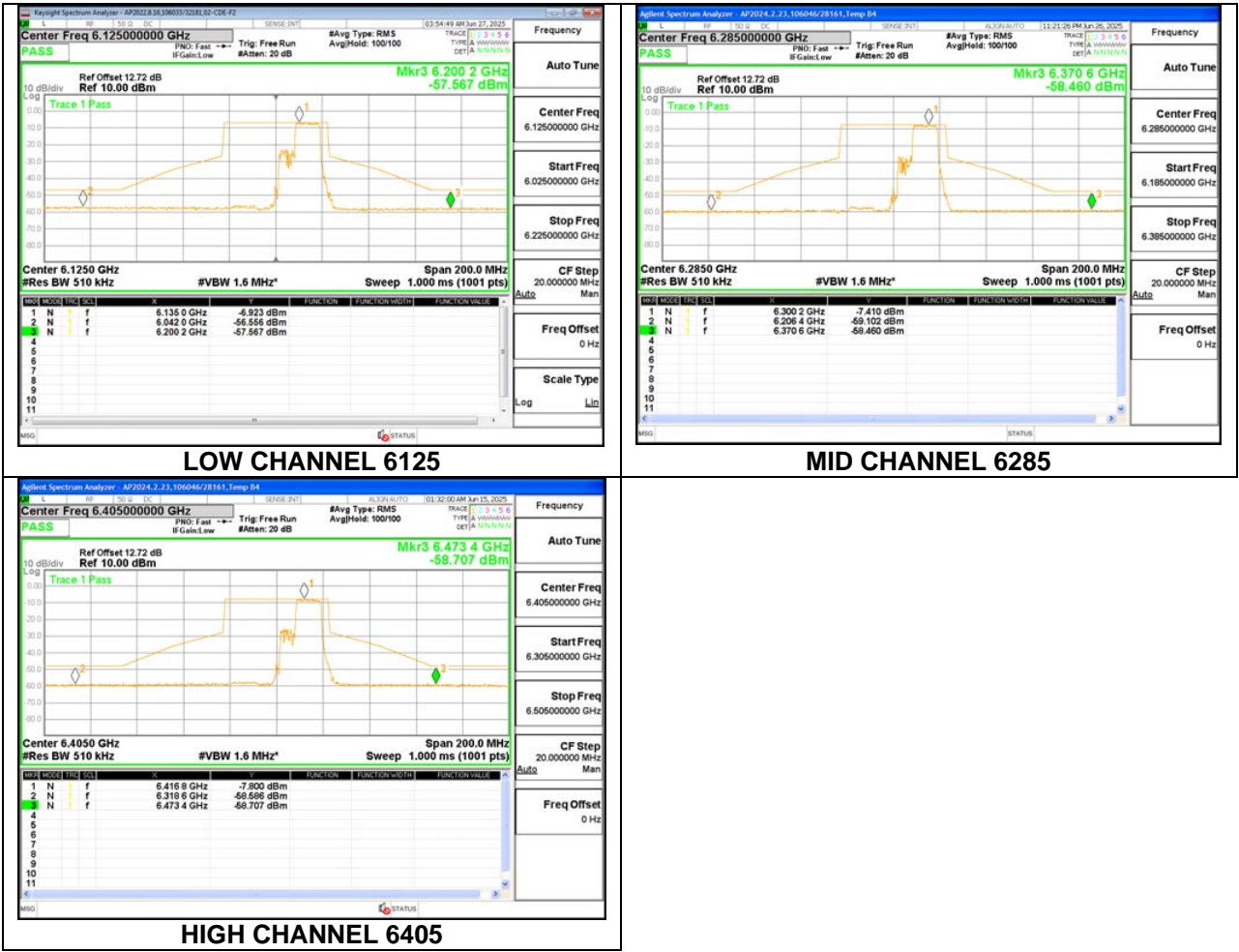




1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 84

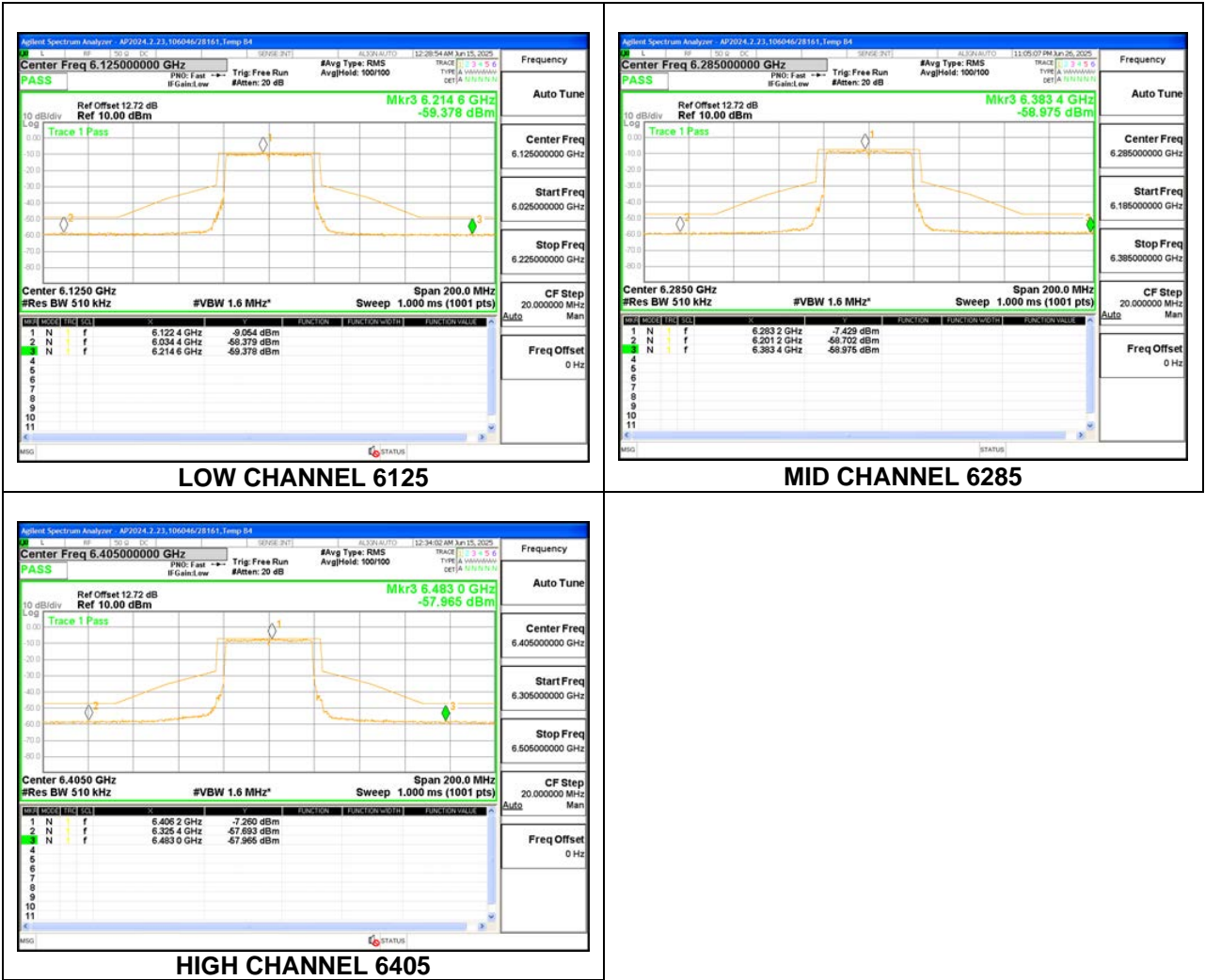


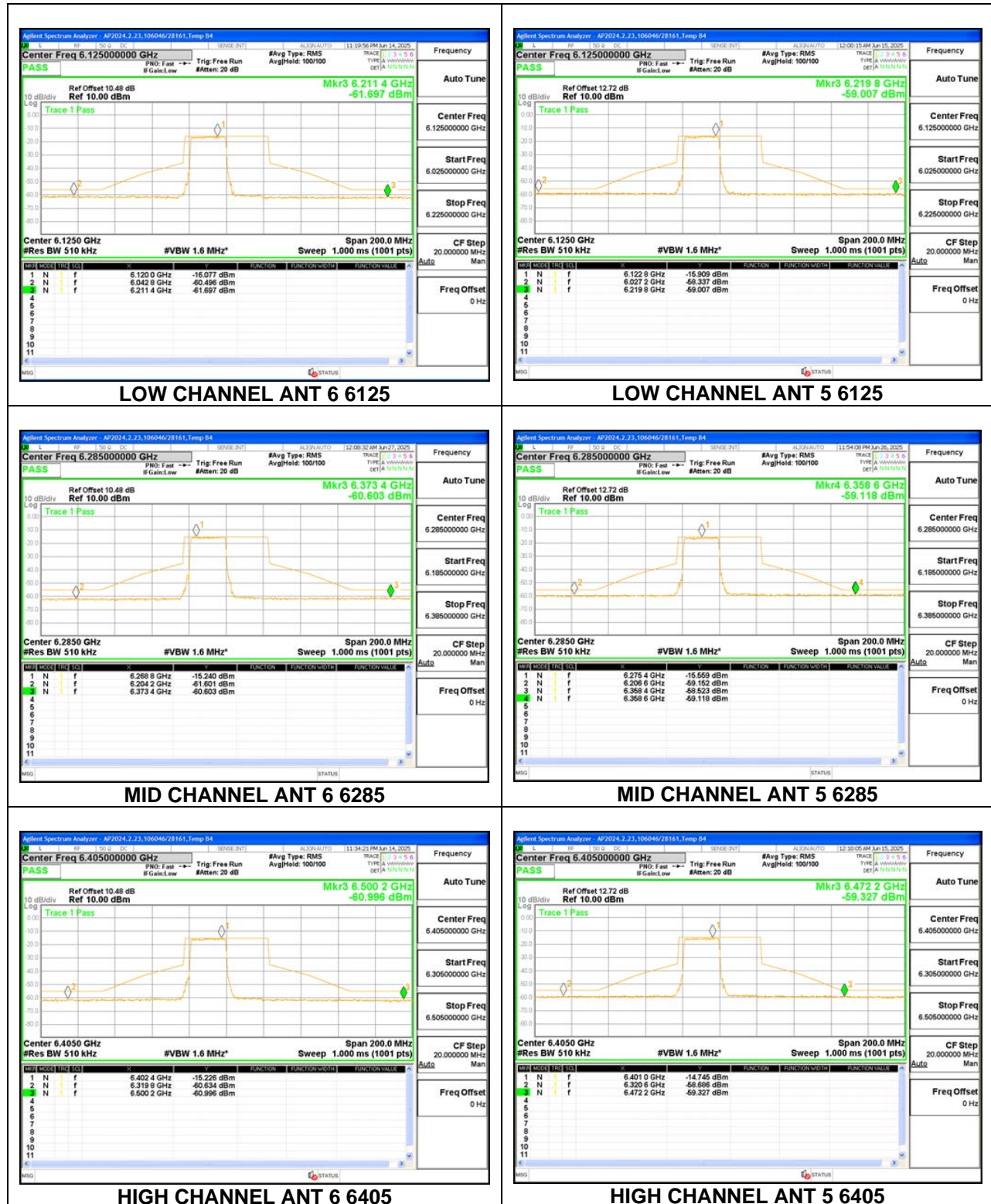
1TX Antenna 5 MODE (FCC+IC) MOBILE – 106+26-Tone, RU Index 85

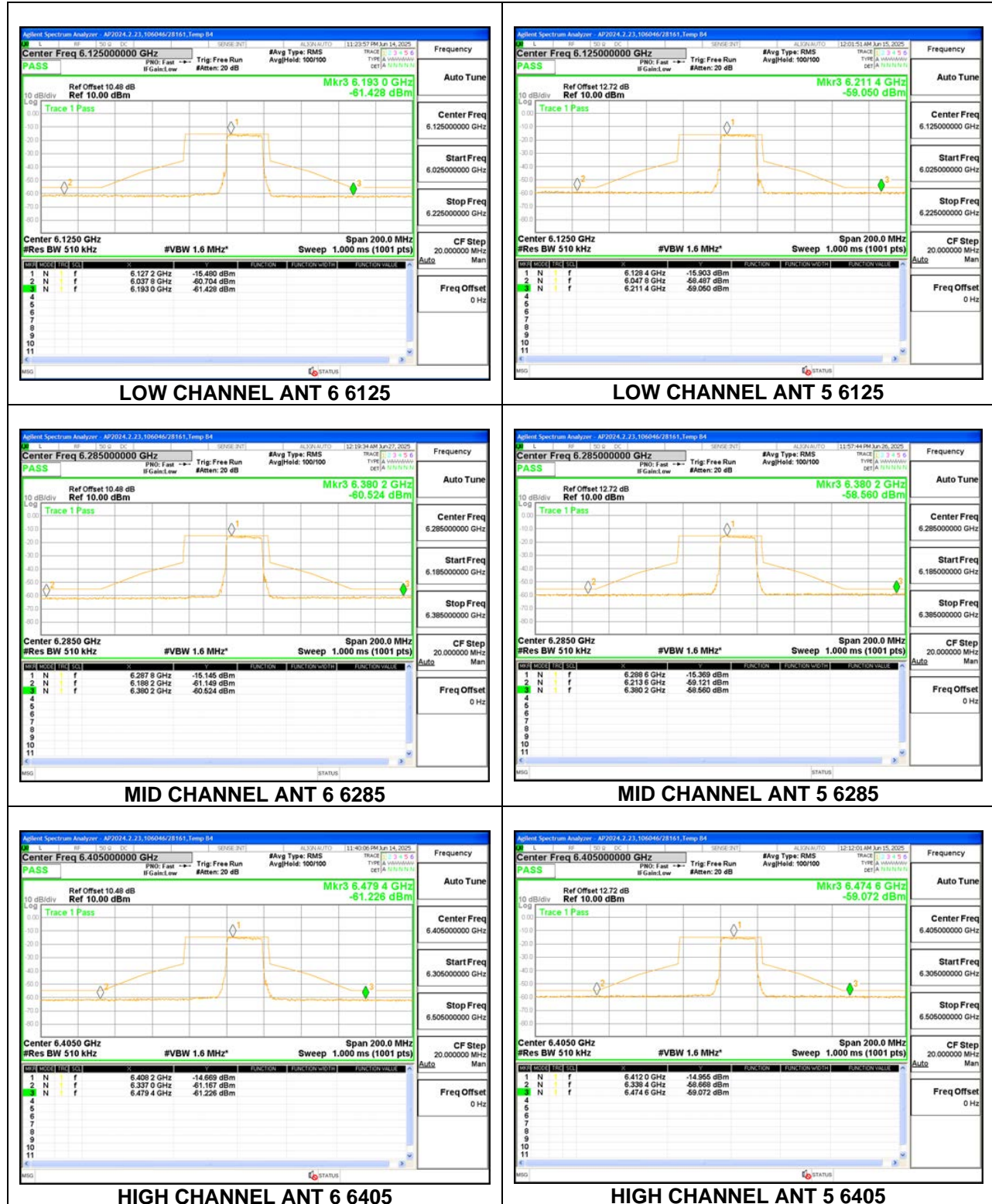




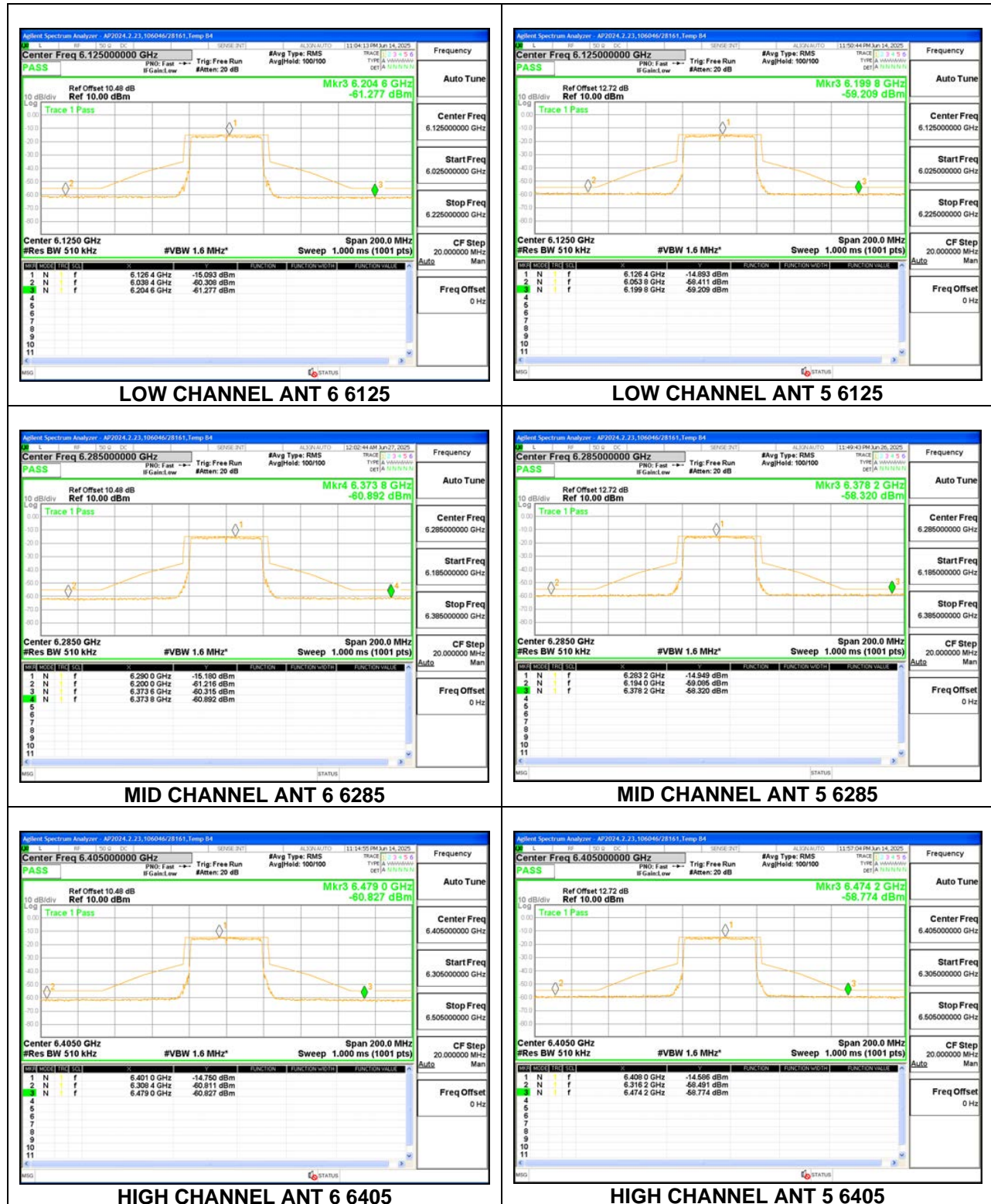
1TX Antenna 5 MODE (FCC+IC) MOBILE – SU MODE

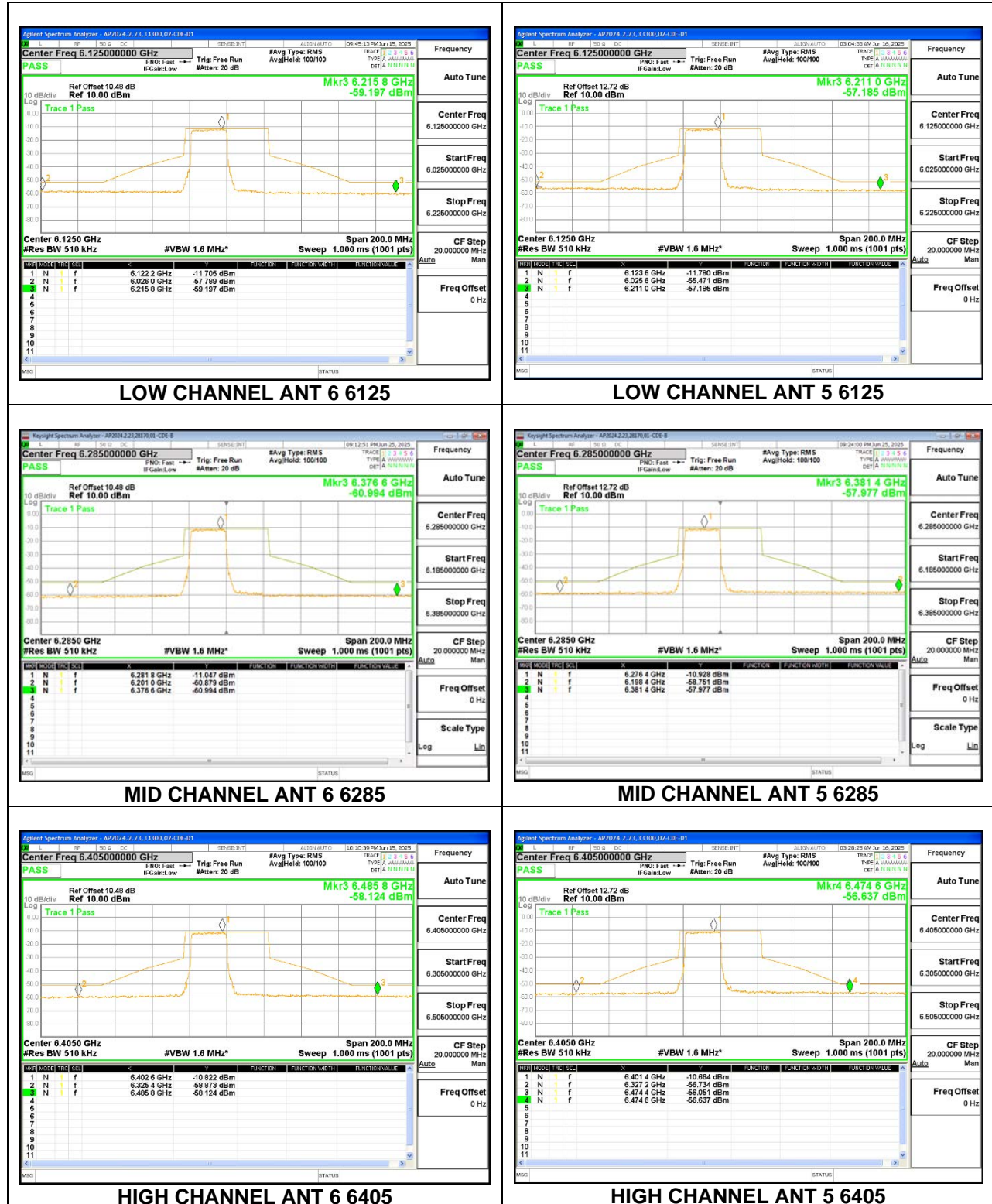


**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 242-Tone, RU Index 61**

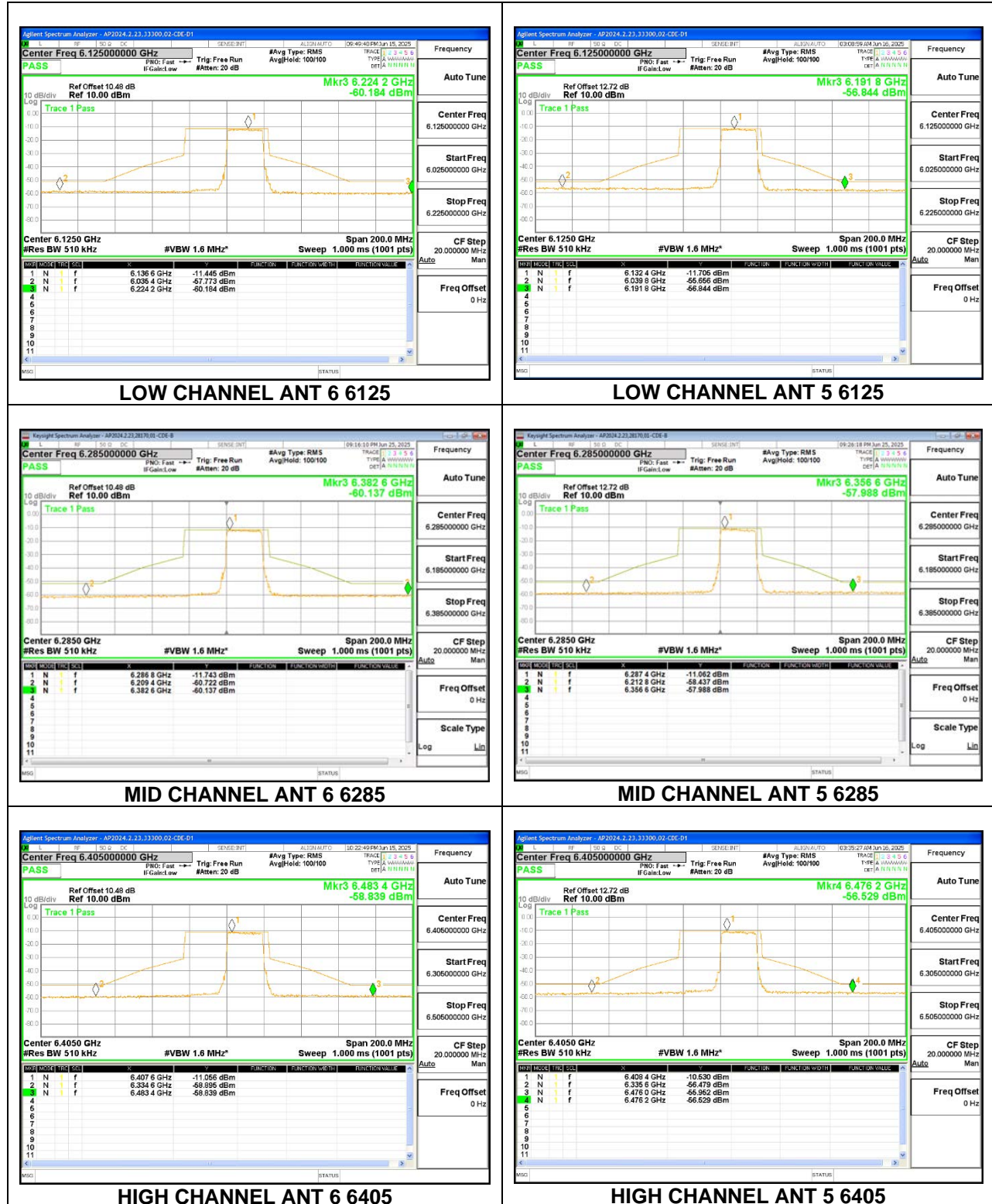
**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – 242-Tone, RU Index 62**

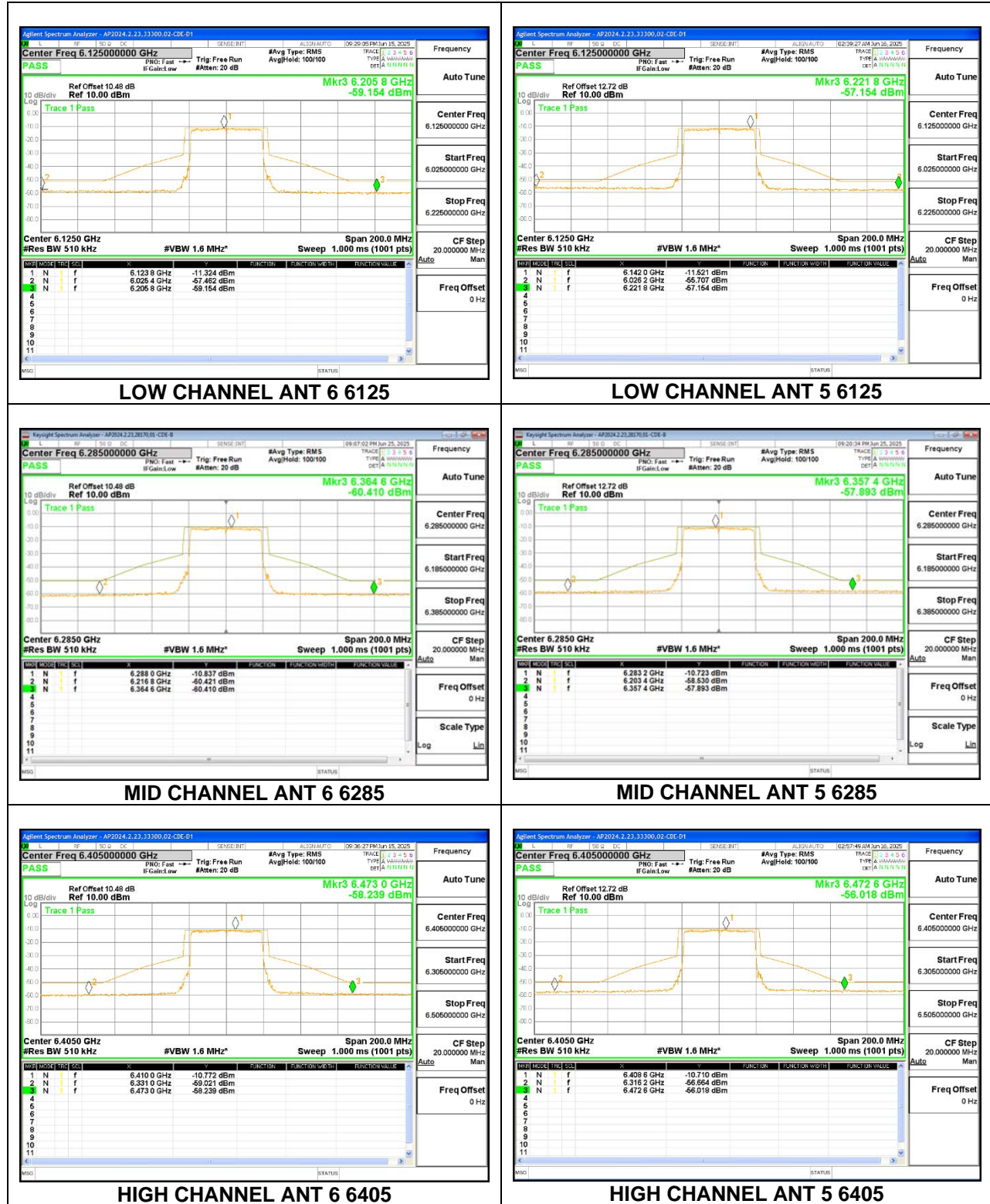


**2TX Antenna 6 + Antenna 5 CDD MODE (FCC+IC) – SU MODE**

**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 242-Tone, RU Index 61**



**2TX Antenna 6 + Antenna 5 SDM MODE (FCC+IC) – 242-Tone, RU Index 62**

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

### 9.10.3. 802.11be EHT80 MODE IN THE UNII-5 BAND

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

