

10.1.2. Result

This project is only reported and checked, the frequency range of this EUT meets the above regulatory requirements.

———— The following blanks ————

10.2. Input Signals

Test requirement: KDB 935210 D05 clause 4.1

10.2.1. Requirements

According to FCC regulations, KDB 935210 D05 clause 4.1 have relevant input signals requirements.

The procedures in this clause are specific to EUTs intended for operating in the Private Land Mobile Radio Services (PLMRS) and Public Safety Radio Services (PSRS)⁵, which are governed under the provisions and requirements of the Part 90 rules (i.e., Section 90.219 applies).

Table 1 depicts signal types associated with PLMRS operations, which are to be considered as test signals to be used in performing compliance testing on PLMRS amplifiers, repeaters, and industrial boosters. Not all of the procedures in this clause will require using each of the signals listed in Table 1, because for

⁵ As explained in § 90.16, Public Safety Radio Services is part of the Public Safety Radio Pool, also known as the Public Safety Pool.

many EUTs a CW tone can adequately model the narrowband signals typically encountered within these services. For EUTs supporting digitally modulated signals, the intended operating signal types should be tested (e.g., P25 Phase 1, P25 Phase 2, TETRA, etc.), especially for PSRS devices. Devices intended for use in 700 MHz Public Safety Broadband spectrum shall be tested using a representative band-limited AWGN signal (99 % OBW of 4.1 MHz) or the applicable signal type (e.g., LTE).

Table 1—Test signals for PLMRS devices

Emission Designator	Modulation	Occupied Bandwidth	Channel Bandwidth	Audio Frequency
16K0F3E	FM	16 kHz	25 kHz	1 kHz
11K3F3E	FM	11.3 kHz	12.5 kHz	1 kHz
4K00F1E	FM	4 kHz	6.25 kHz	1 kHz
N/A	CW	N/A	N/A	N/A

10.2.2. Result

Test Date (yy-mm-dd): 2024-01-24

Normal condition: Temp: 20.1°C, Humid: 12%, Atmospheric Pressure:101kpa

Supply Voltage: DC +24V

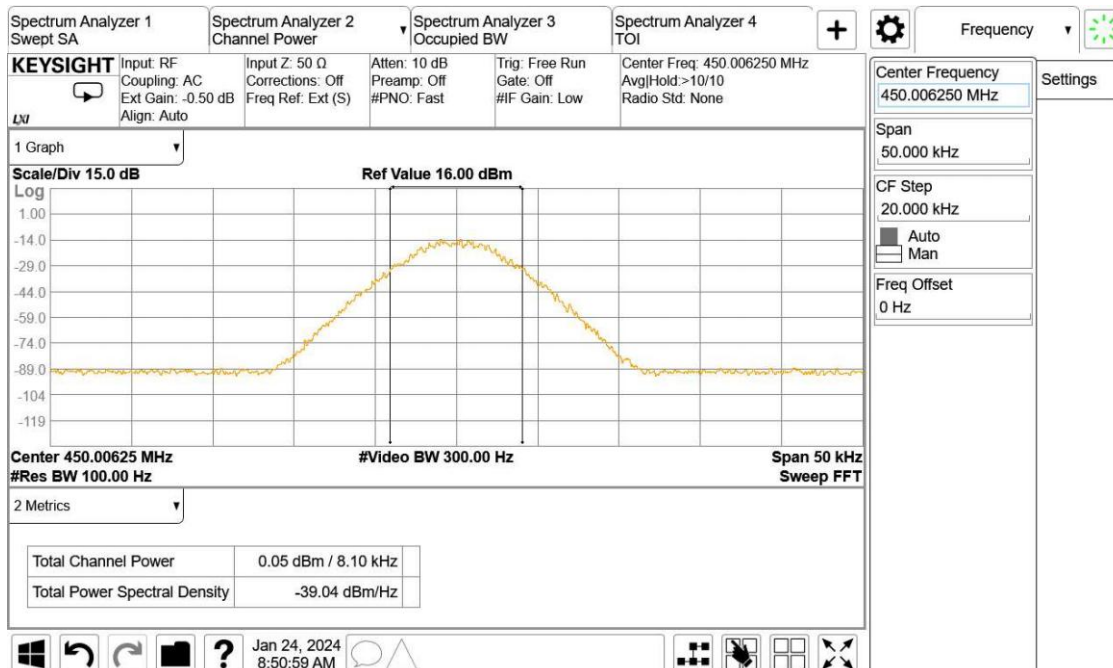
This project is only reported and checked.

———— The following blanks ————

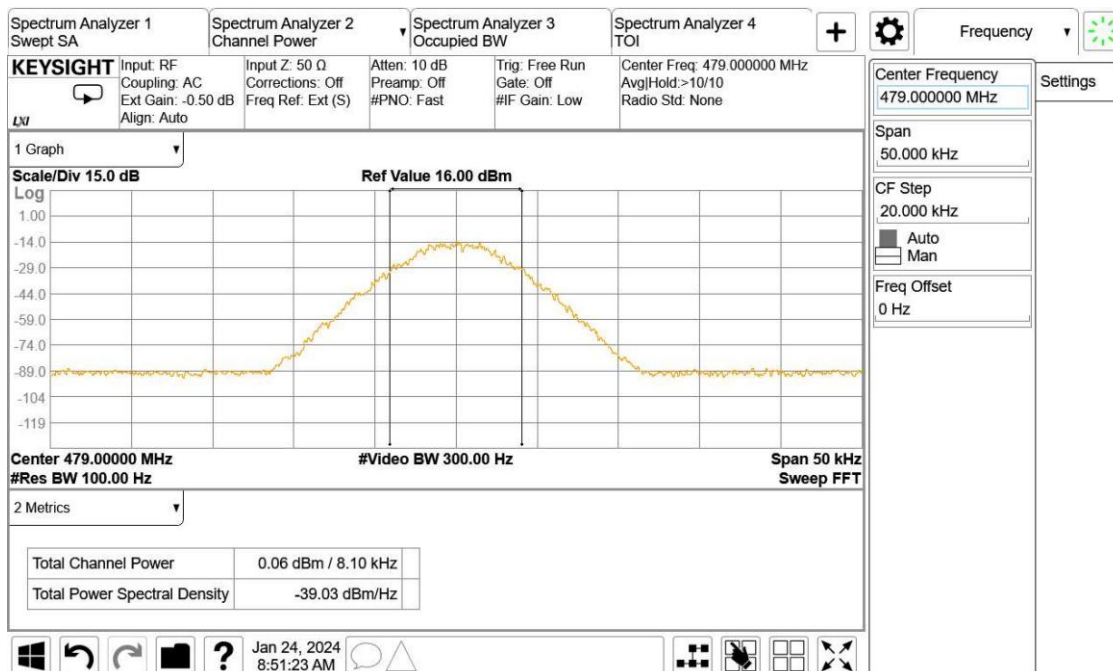
10.2.3. Input Signals screenshot

10.2.3.1. P25 Phase I(C4FM) mode

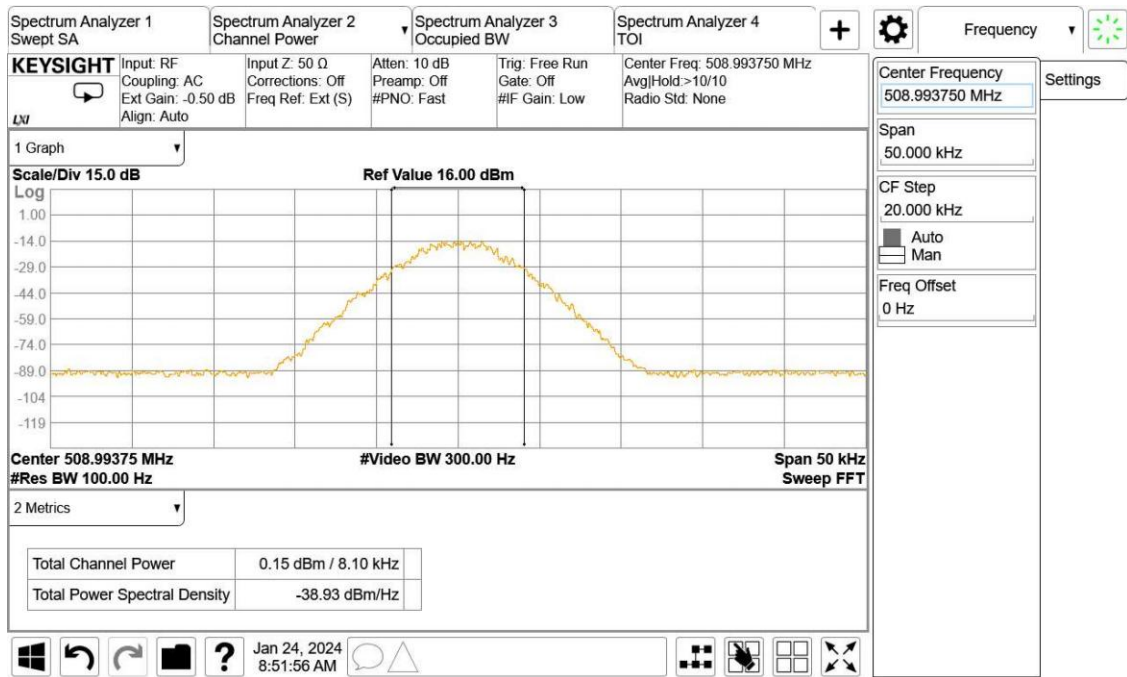
10.2.3.1.1. Downlink



Low Frequency: 450.00625MHz

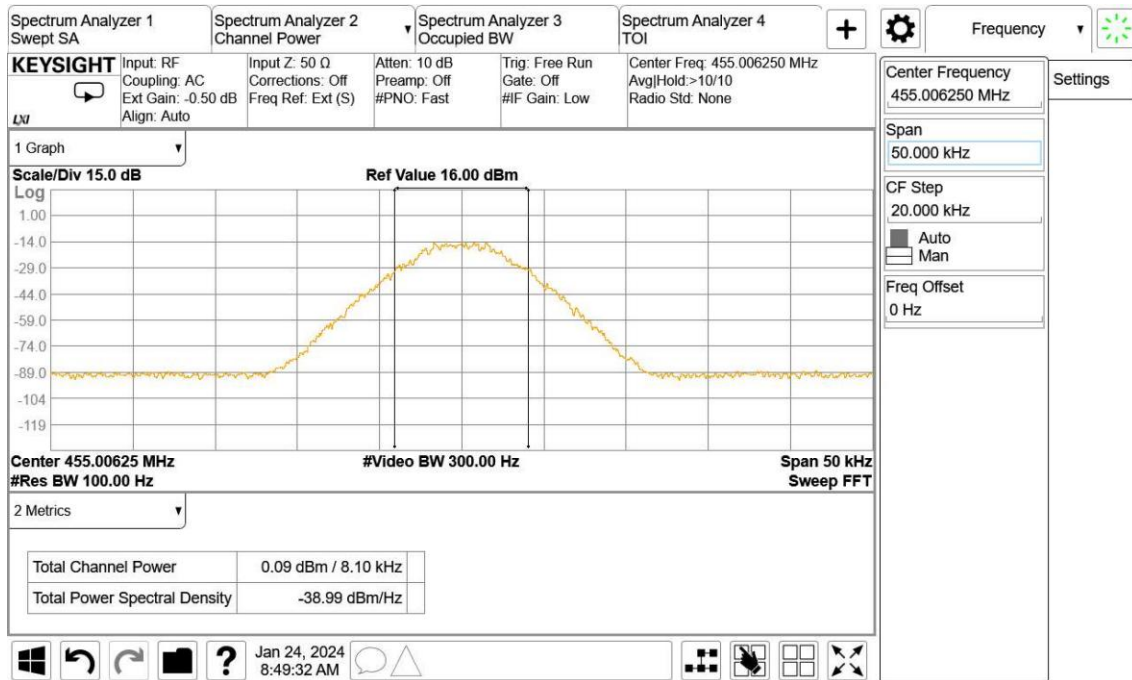


Middle Frequency: 479.0MHz

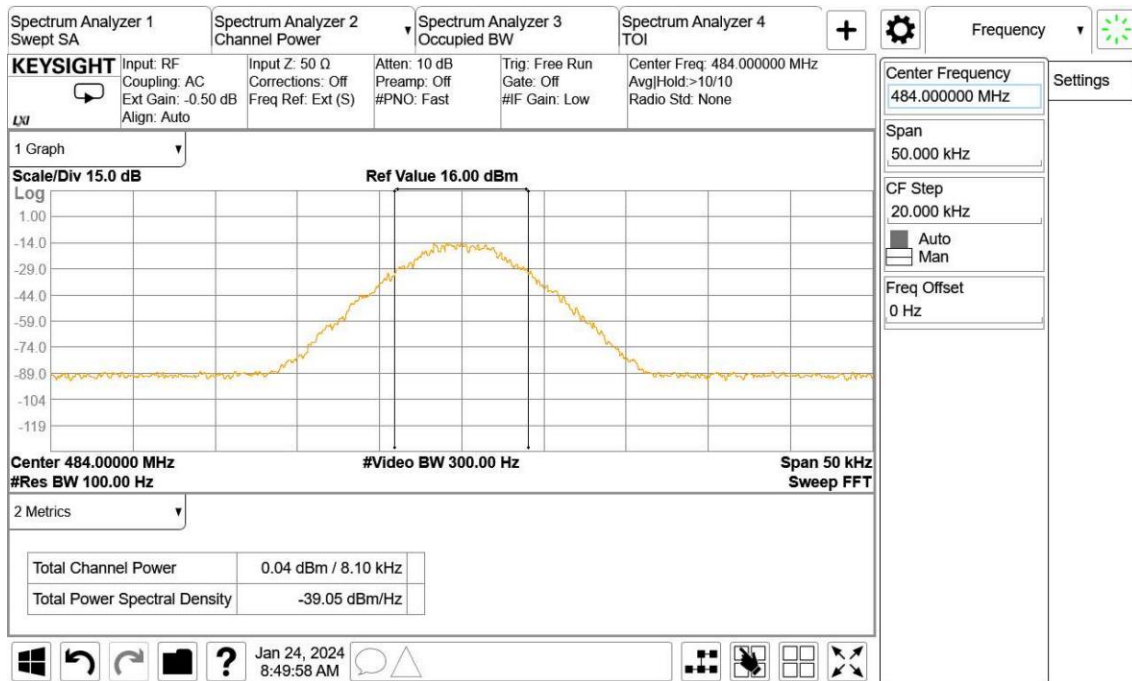


High Frequency: 508.99375MHz

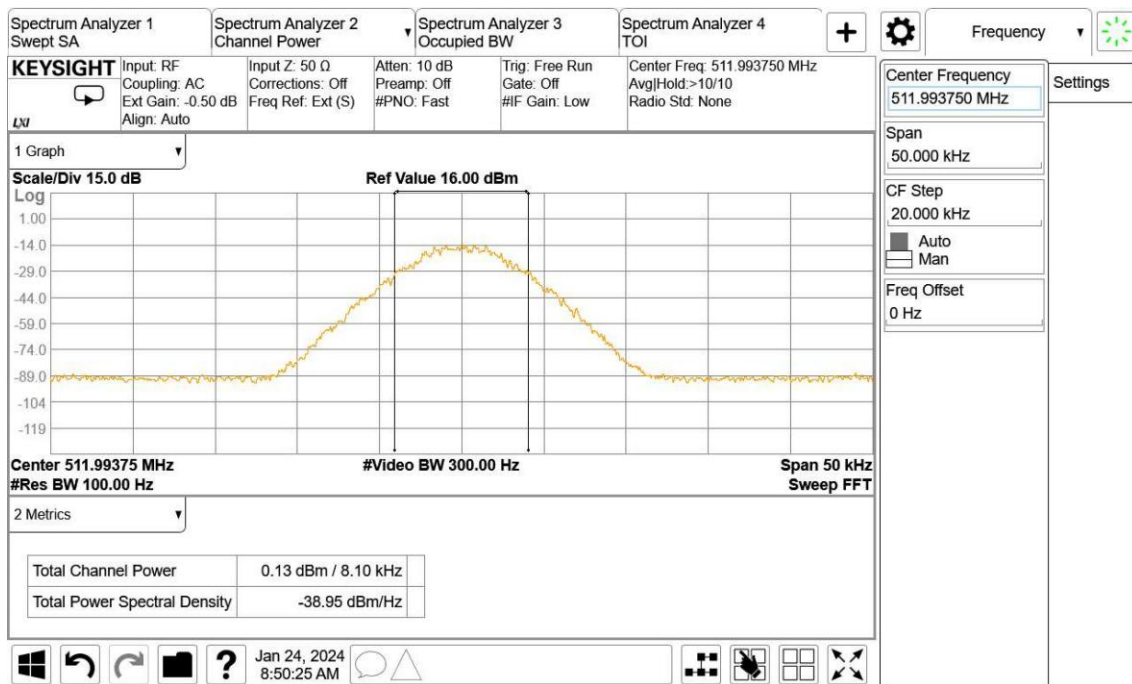
10.2.3.1.2. Uplink



Low Frequency: 455.00625MHz



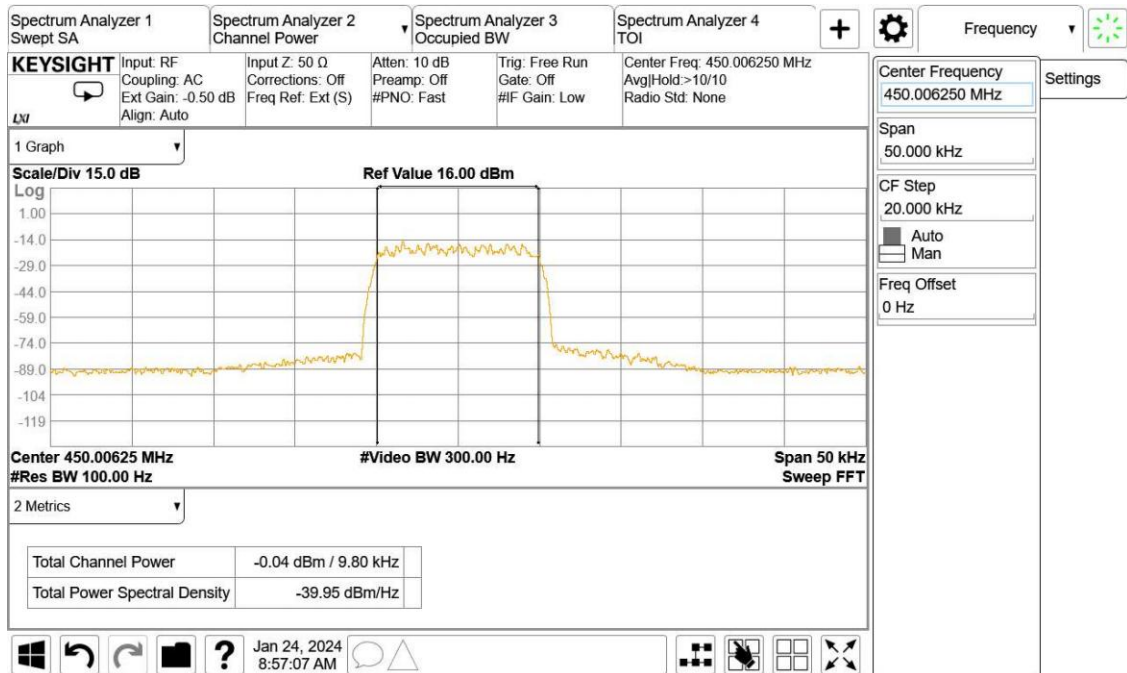
Middle Frequency: 484.0MHz



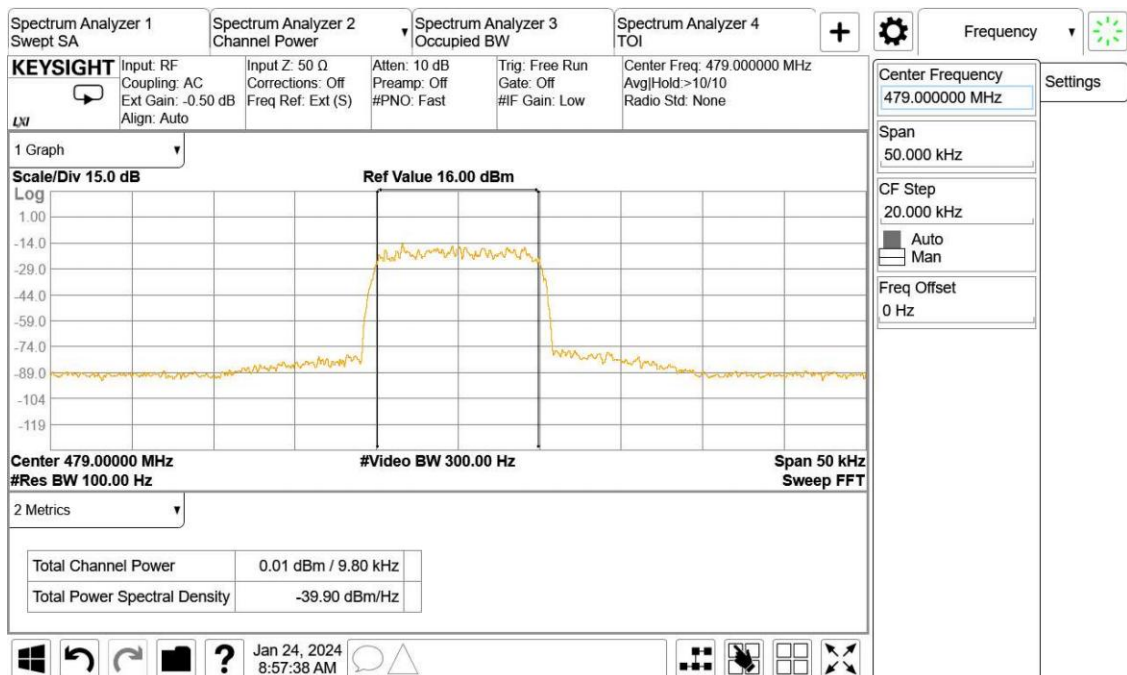
High Frequency: 511.99375MHz

10.2.3.2. P25 Phase II(H-DQPSK) mode

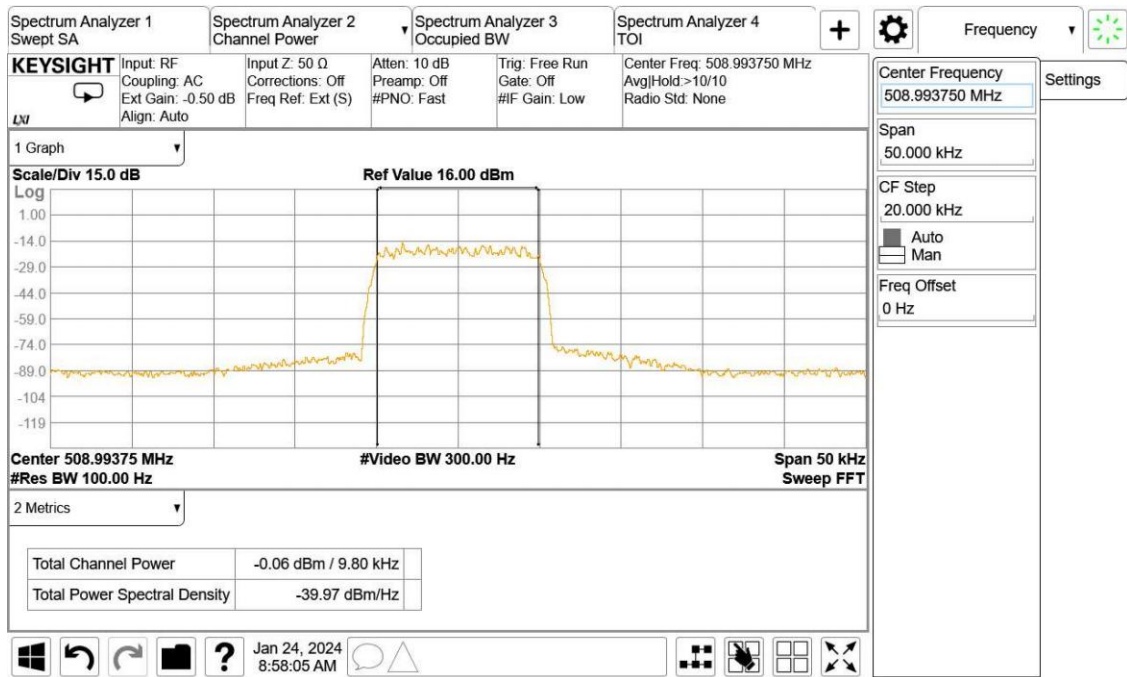
10.2.3.2.1. Downlink



Low Frequency: 450.00625MHz

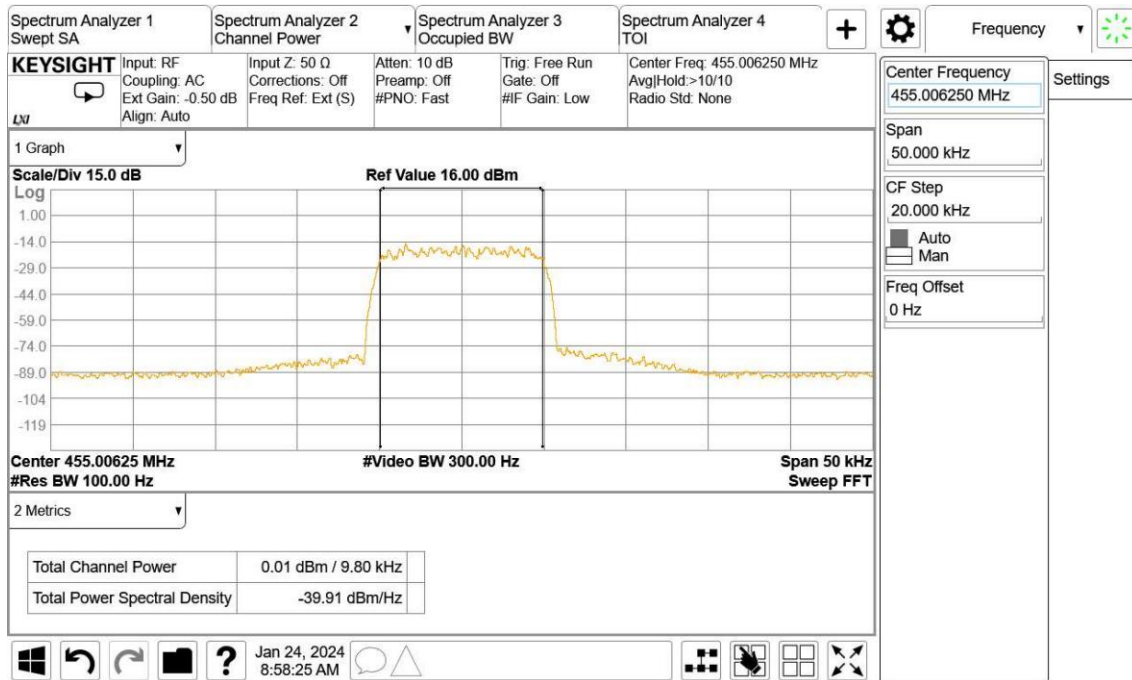


Middle Frequency: 479.0MHz

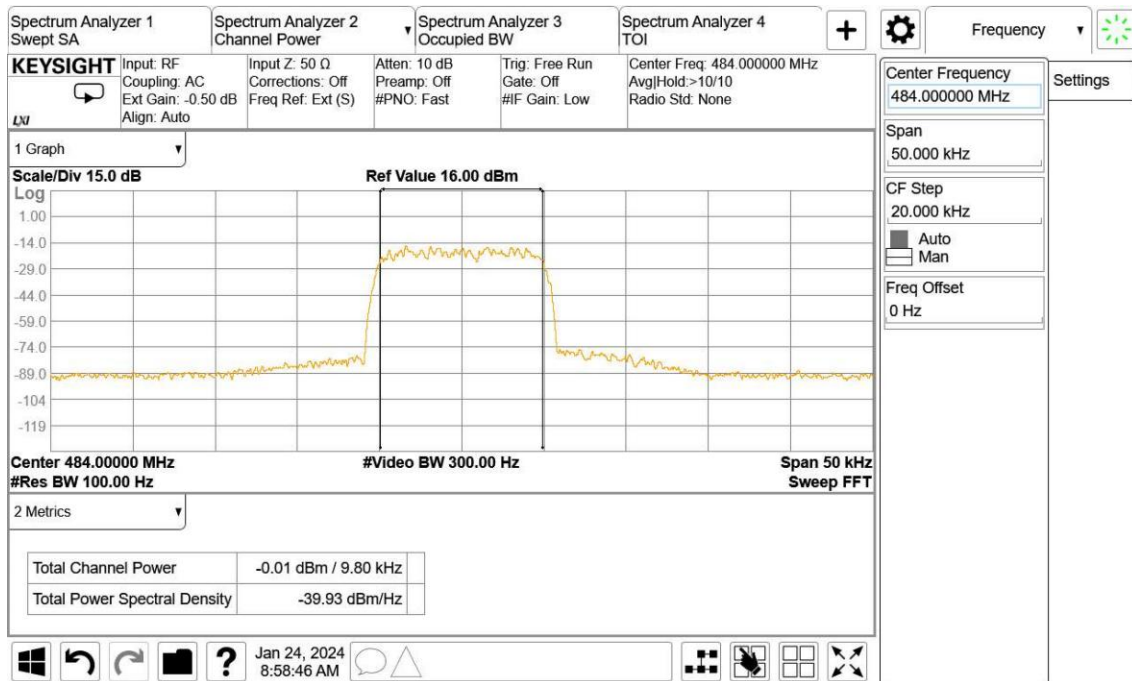


High Frequency: 508.99375MHz

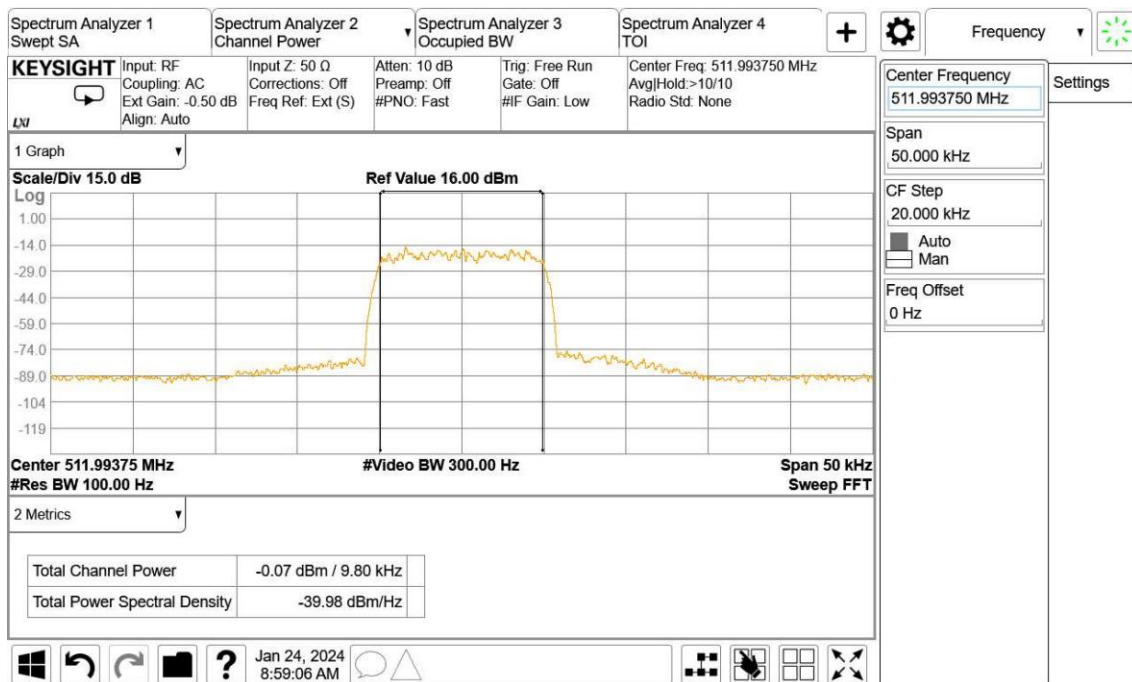
10.2.3.2.2. Uplink



Low Frequency: 455.00625MHz



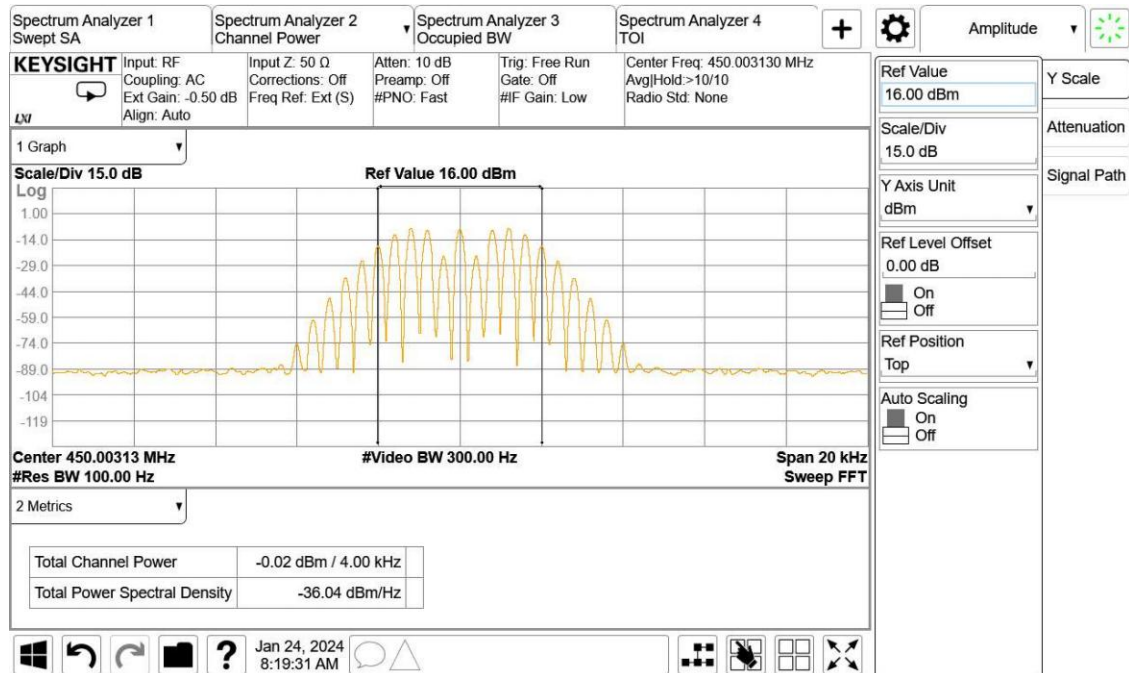
Middle Frequency: 484.0MHz



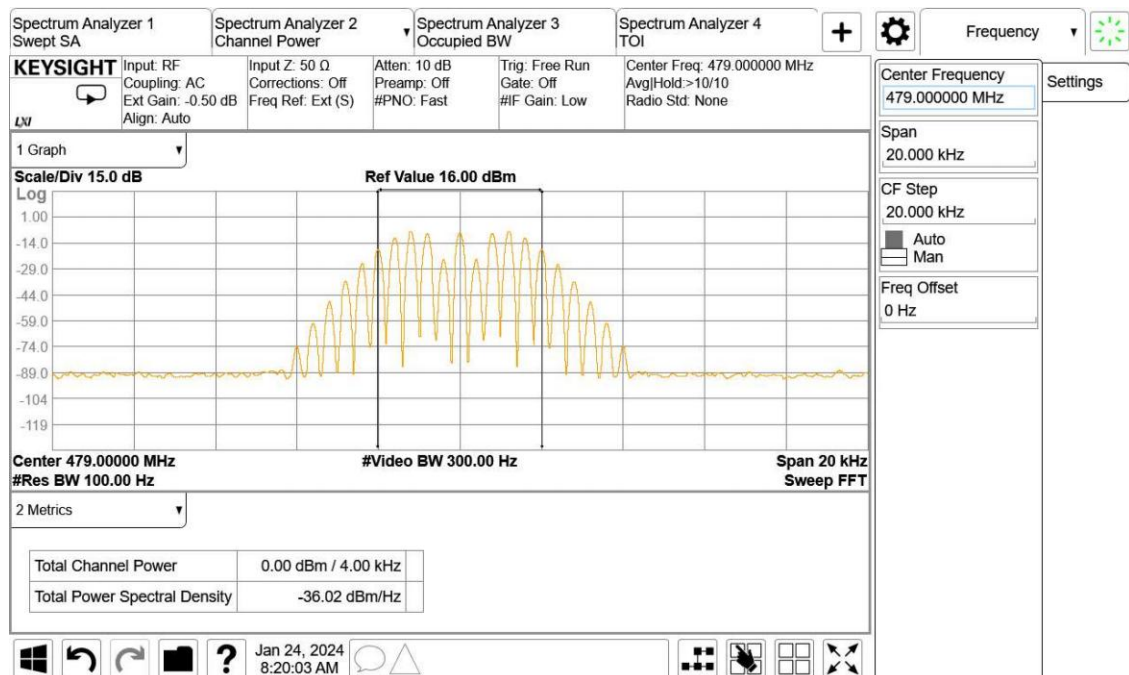
High Frequency: 511.99375MHz

10.2.3.3. Analog FM (6.25kHz)

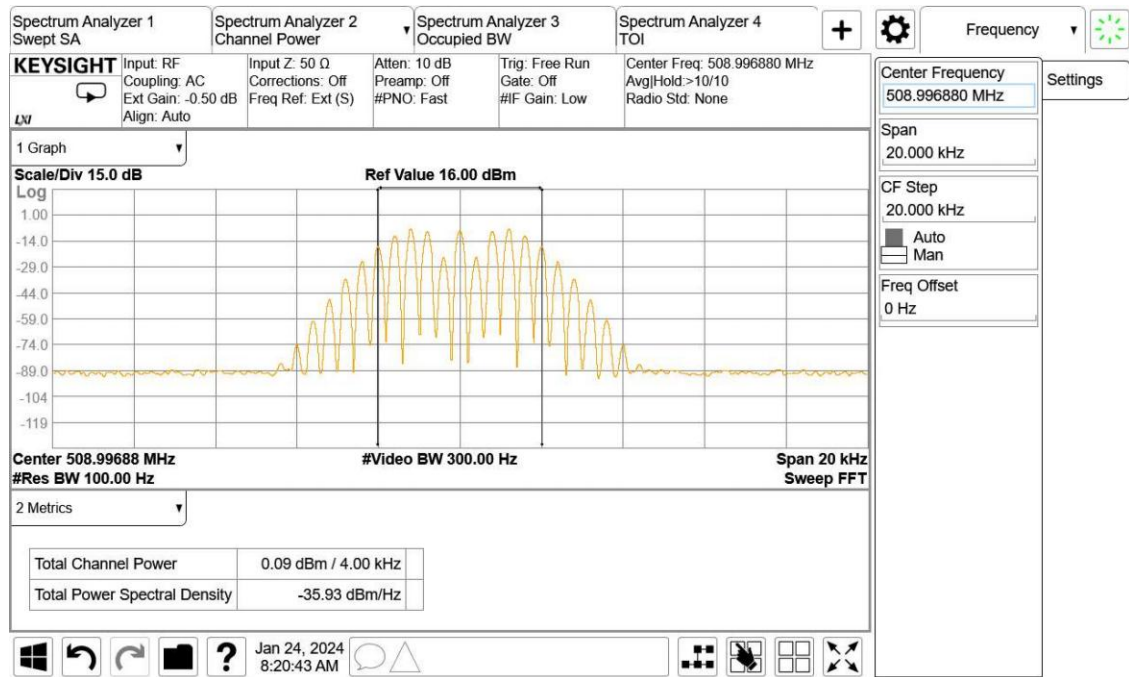
10.2.3.3.1. Downlink



Low Frequency: 450.00313MHz

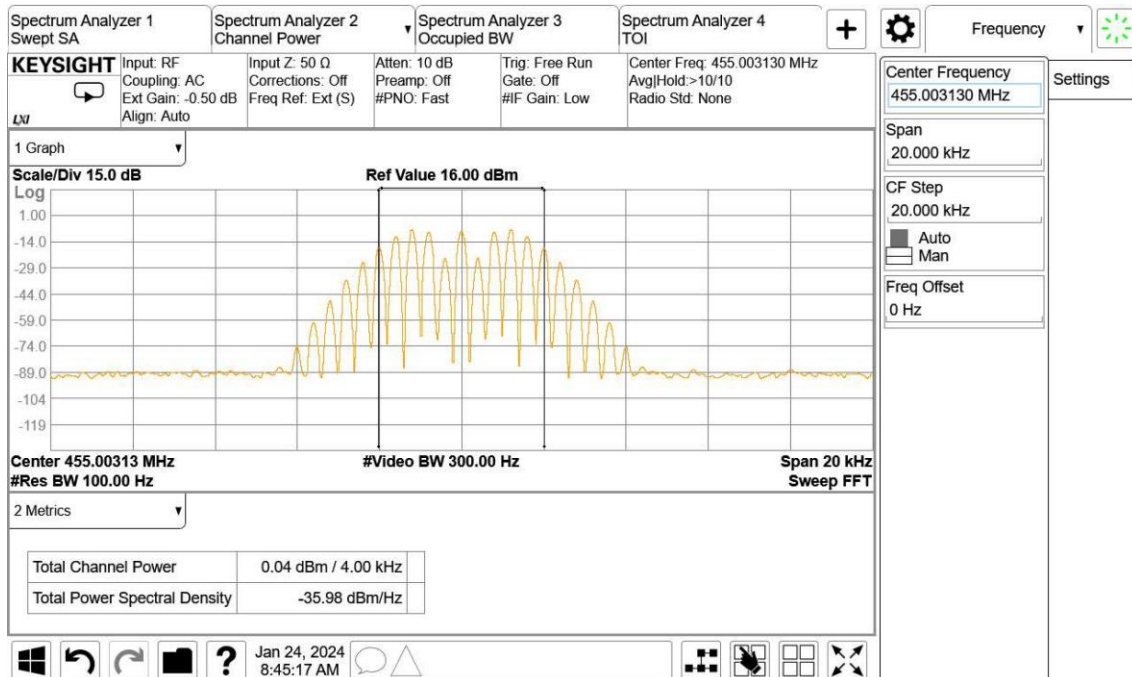


Middle Frequency: 479.0MHz

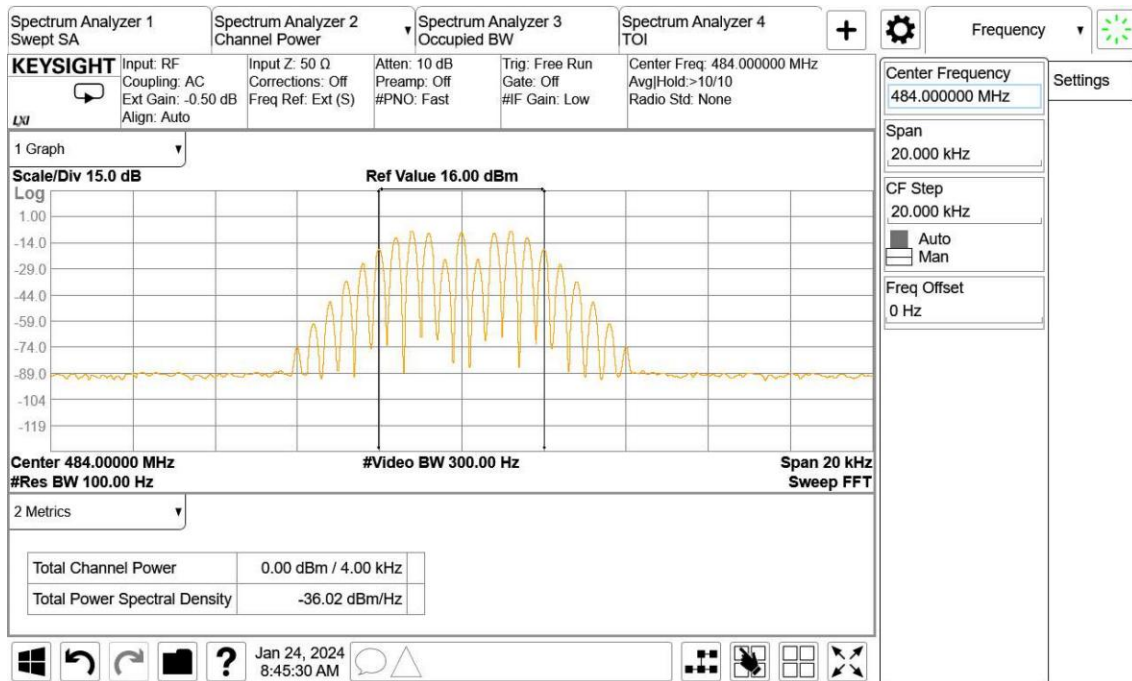


High Frequency: 508.99688MHz

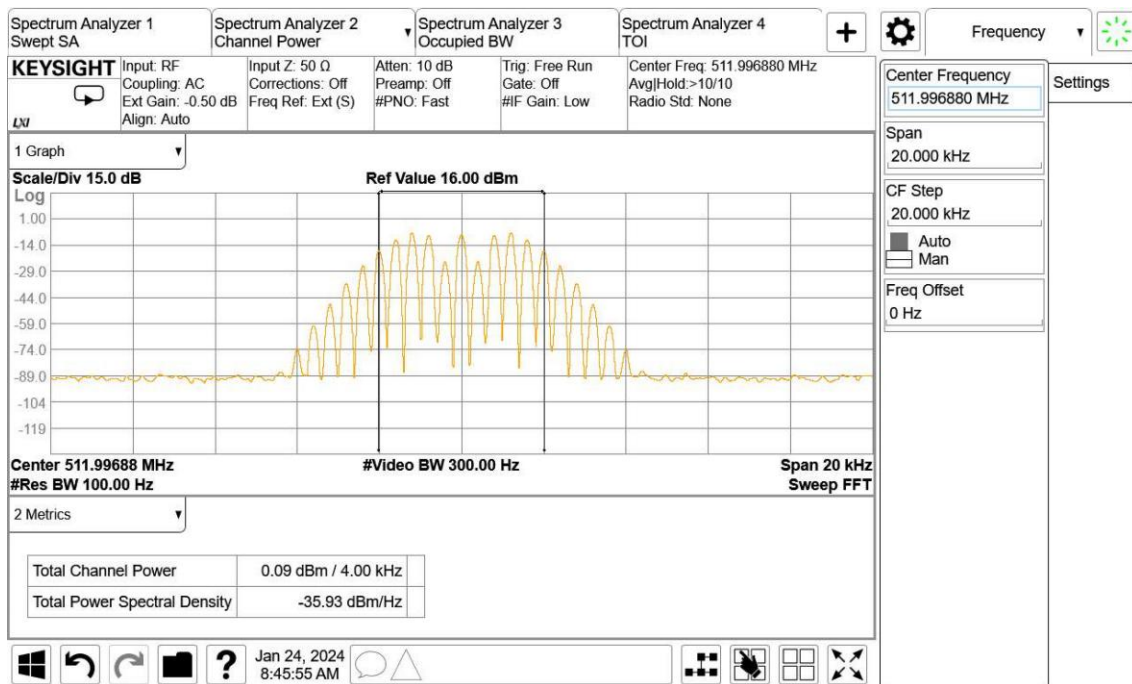
10.2.3.3.2. Uplink



Low Frequency: 455.00313MHz



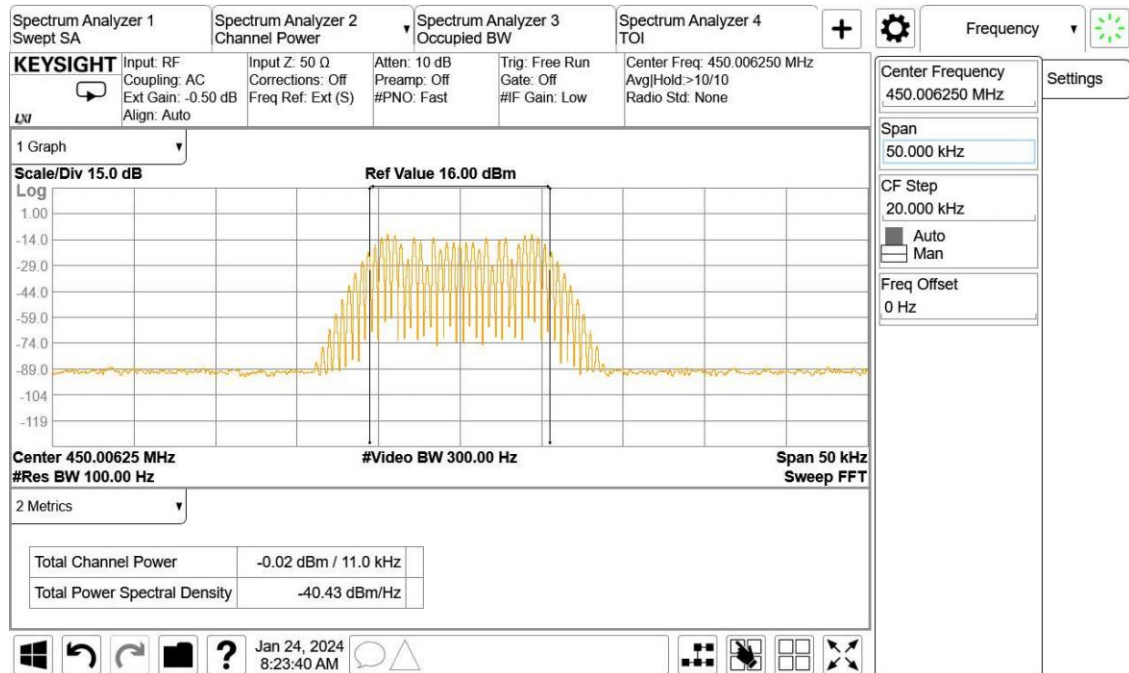
Middle Frequency: 484.0MHz



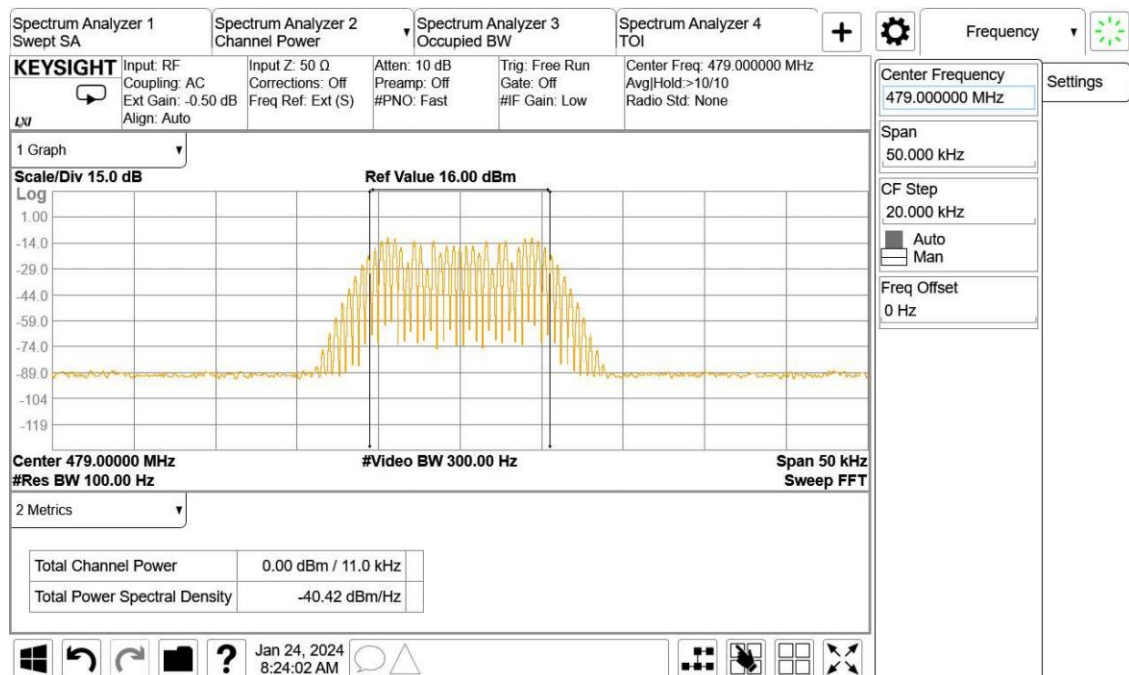
High Frequency: 511.99688MHz

10.2.3.4. Analog FM (12.5kHz)

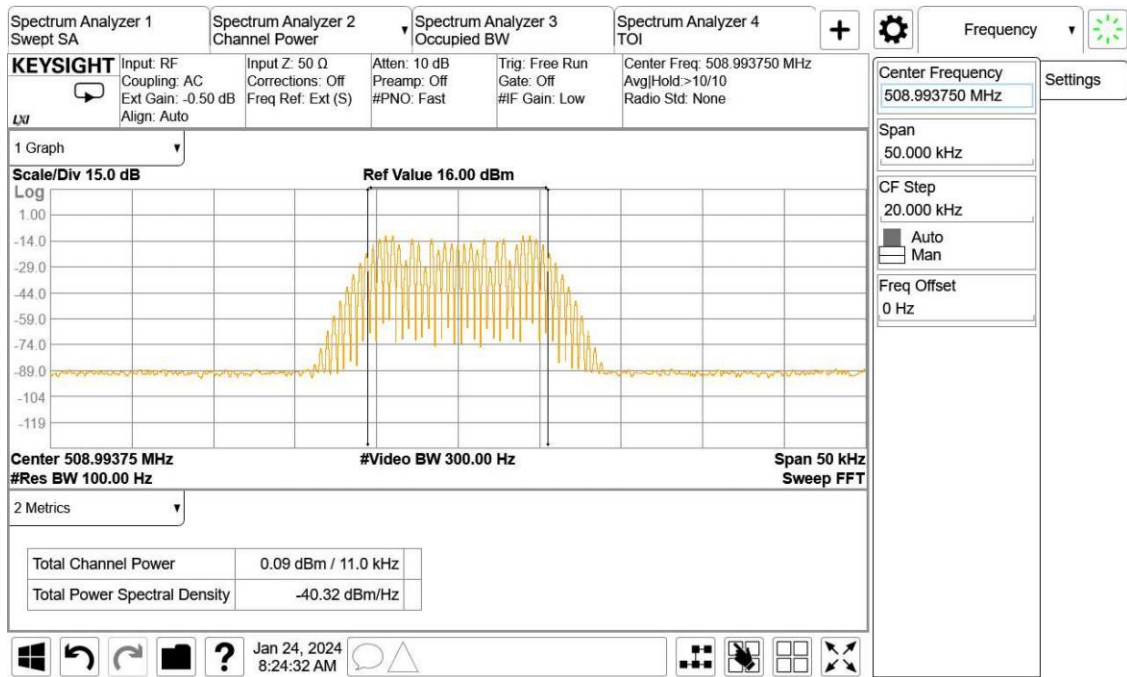
10.2.3.4.1. Downlink



Low Frequency: 450.00625MHz

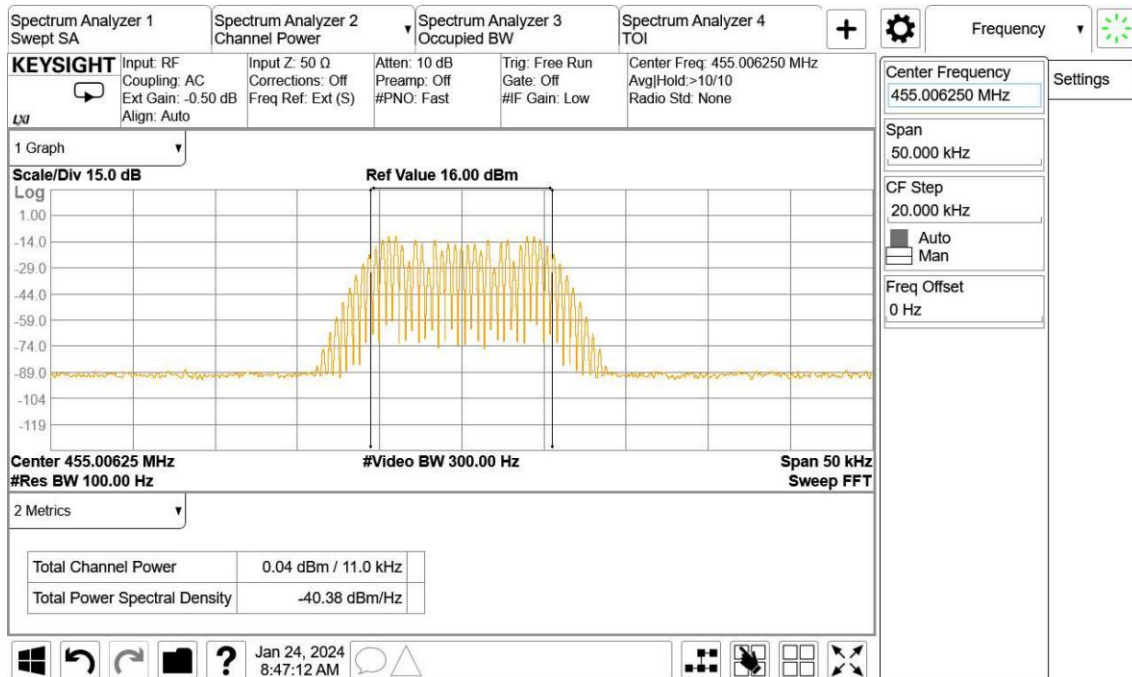


Middle Frequency: 479.0MHz

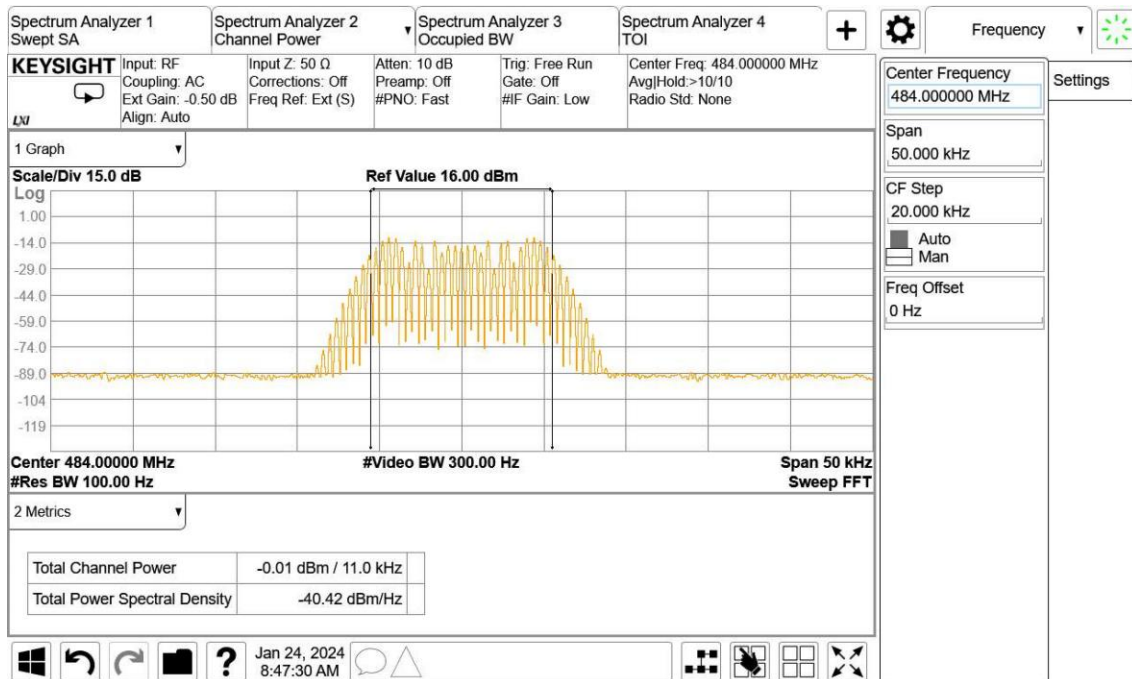


High Frequency: 508.99375MHz

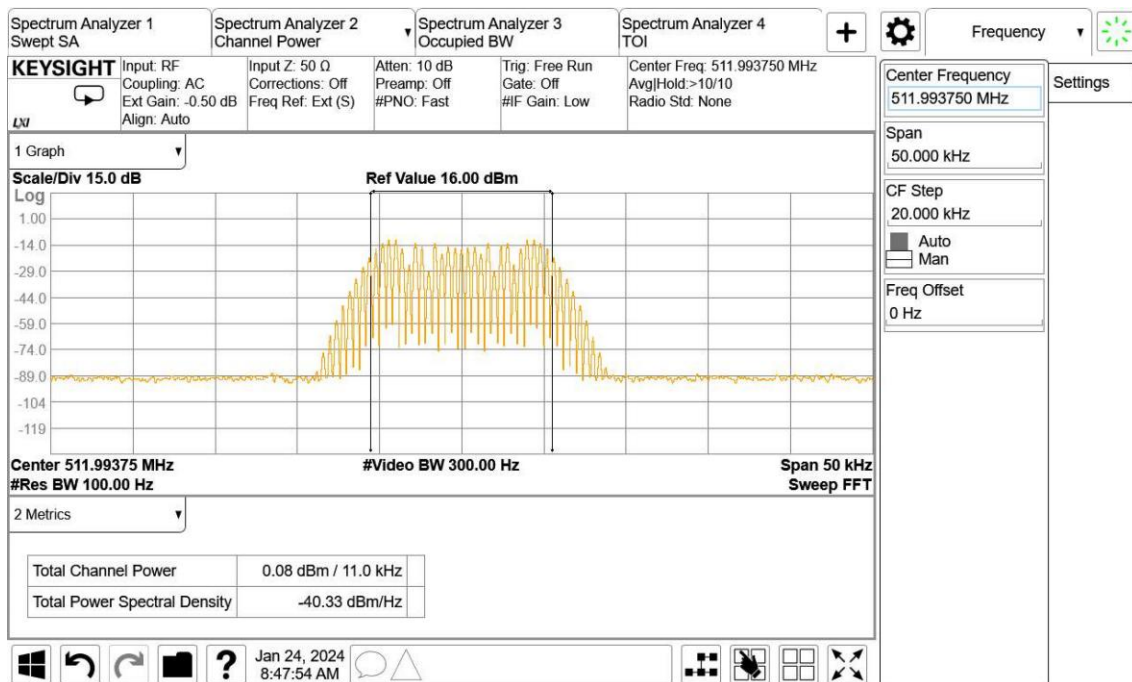
10.2.3.4.2. Uplink



Low Frequency: 455.00625MHz



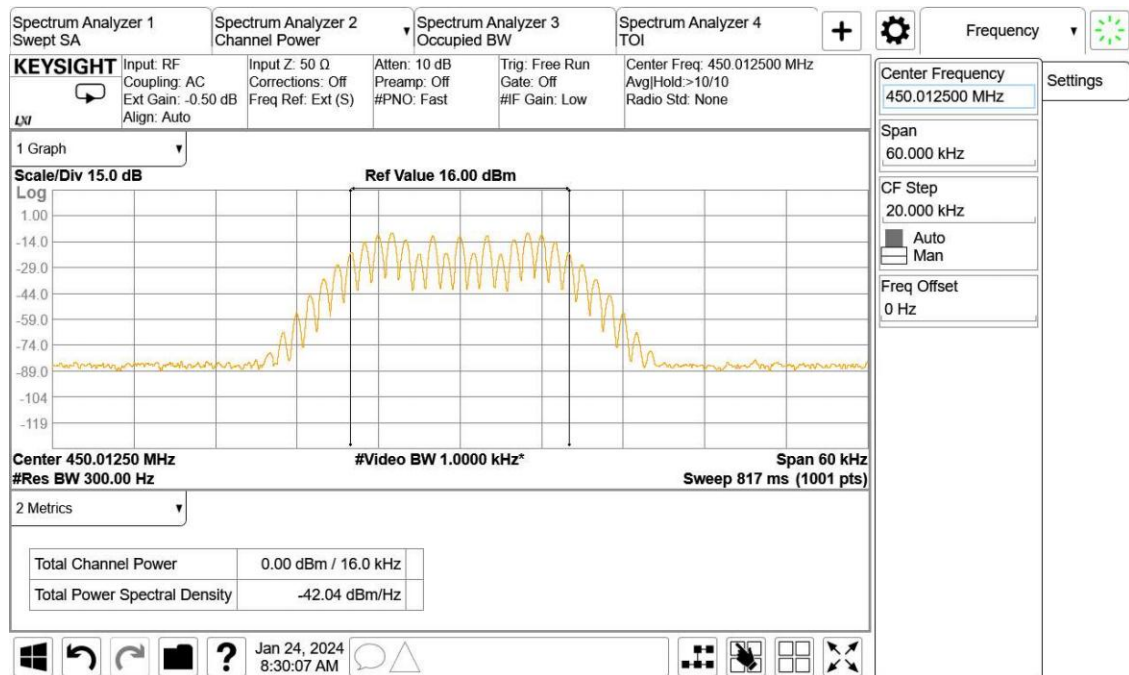
Middle Frequency: 484.0MHz



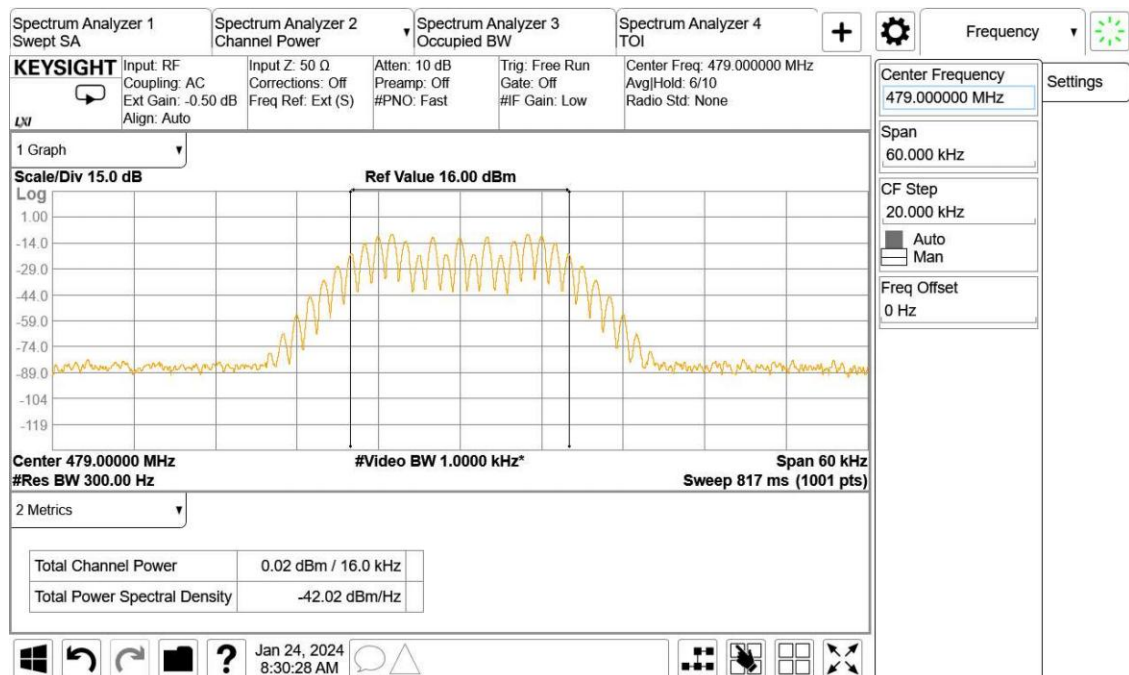
High Frequency: 511.99375MHz

10.2.3.5. Analog FM (25kHz)

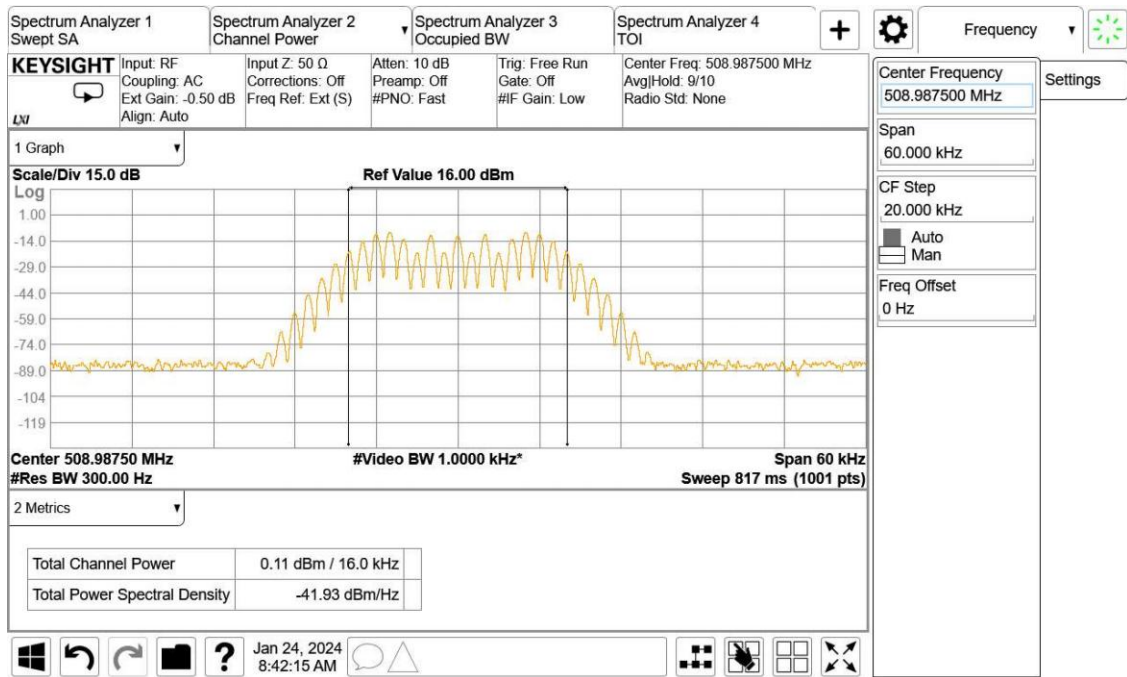
10.2.3.5.1. Downlink



Low Frequency: 450.0125MHz

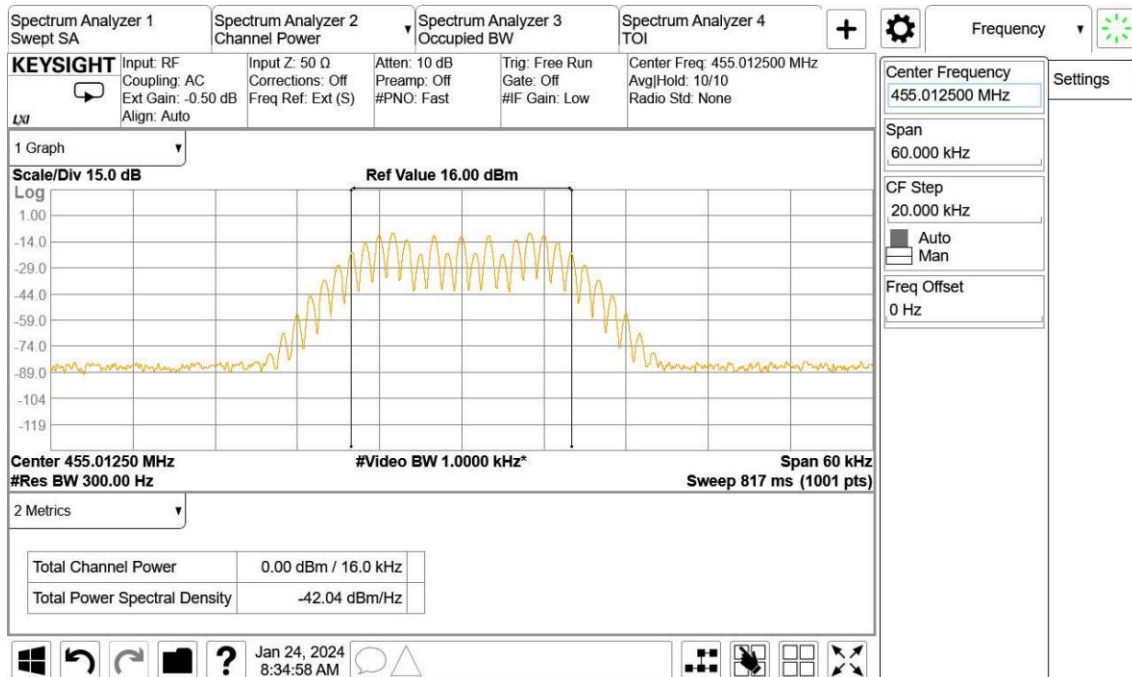


Middle Frequency: 479.0MHz



High Frequency: 508.9875MHz

10.2.3.5.2. Uplink



Low Frequency: 455.0125MHz