

8.3.4 Test Procedure

Methods refer to FCC KDB 789033.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections.

5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

8.3.5 Test Results

Temperature : 25°C
Humidity : 60 %

ATM Pressure:: 1011 mbar
Test Engineer: Calvin

Power Density

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.22	≤11.00	PASS
11A	Ant1	5200	-0.86	≤11.00	PASS
11A	Ant1	5240	-0.36	≤11.00	PASS
11A	Ant1	5260	-0.52	≤11.00	PASS
11A	Ant1	5280	-0.38	≤11.00	PASS
11A	Ant1	5320	-0.92	≤11.00	PASS
11A	Ant1	5500	-3.18	≤11.00	PASS
11A	Ant1	5580	-4.42	≤11.00	PASS
11A	Ant1	5700	-3.76	≤11.00	PASS
11A	Ant1	5745	-8.43	≤30.00	PASS
11A	Ant1	5785	-10.46	≤30.00	PASS
11A	Ant1	5825	-10.09	≤30.00	PASS
11N20SISO	Ant1	5180	-1.87	≤11.00	PASS
11N20SISO	Ant1	5200	-1.59	≤11.00	PASS
11N20SISO	Ant1	5240	-0.90	≤11.00	PASS
11N20SISO	Ant1	5260	-1.39	≤11.00	PASS
11N20SISO	Ant1	5280	-1.16	≤11.00	PASS
11N20SISO	Ant1	5320	-1.08	≤11.00	PASS
11N20SISO	Ant1	5500	-3.69	≤11.00	PASS
11N20SISO	Ant1	5580	-4.59	≤11.00	PASS
11N20SISO	Ant1	5700	-4.21	≤11.00	PASS
11N20SISO	Ant1	5745	-8.73	≤30.00	PASS
11N20SISO	Ant1	5785	-10.80	≤30.00	PASS
11N20SISO	Ant1	5825	-10.26	≤30.00	PASS
11N40SISO	Ant1	5190	-5.13	≤11.00	PASS
11N40SISO	Ant1	5230	-4.50	≤11.00	PASS
11N40SISO	Ant1	5270	-4.64	≤11.00	PASS
11N40SISO	Ant1	5310	-4.69	≤11.00	PASS
11N40SISO	Ant1	5510	-7.66	≤11.00	PASS
11N40SISO	Ant1	5550	-8.04	≤11.00	PASS
11N40SISO	Ant1	5670	-7.85	≤11.00	PASS
11N40SISO	Ant1	5755	-13.20	≤30.00	PASS
11N40SISO	Ant1	5795	-14.66	≤30.00	PASS
11AC20SISO	Ant1	5180	-1.81	≤11.00	PASS
11AC20SISO	Ant1	5200	-1.07	≤11.00	PASS
11AC20SISO	Ant1	5240	-0.87	≤11.00	PASS
11AC20SISO	Ant1	5260	-1.08	≤11.00	PASS
11AC20SISO	Ant1	5280	-1.55	≤11.00	PASS
11AC20SISO	Ant1	5320	-2.04	≤11.00	PASS
11AC20SISO	Ant1	5500	-3.83	≤11.00	PASS
11AC20SISO	Ant1	5580	-4.75	≤11.00	PASS
11AC20SISO	Ant1	5700	-3.75	≤11.00	PASS
11AC20SISO	Ant1	5745	-8.56	≤30.00	PASS
11AC20SISO	Ant1	5785	-10.95	≤30.00	PASS
11AC20SISO	Ant1	5825	-9.99	≤30.00	PASS
11AX20SISO	Ant1	5180	-2.09	≤11.00	PASS
11AX20SISO	Ant1	5200	-1.84	≤11.00	PASS

11AX20SISO	Ant1	5240	-1.08	≤11.00	PASS
11AX20SISO	Ant1	5260	-1.36	≤11.00	PASS
11AX20SISO	Ant1	5280	-1.40	≤11.00	PASS
11AX20SISO	Ant1	5320	-2.11	≤11.00	PASS
11AX20SISO	Ant1	5500	-3.59	≤11.00	PASS
11AX20SISO	Ant1	5580	-4.64	≤11.00	PASS
11AX20SISO	Ant1	5700	-3.86	≤11.00	PASS
11AX20SISO	Ant1	5745	-8.43	≤30.00	PASS
11AX20SISO	Ant1	5785	-5.68	≤30.00	PASS
11AX20SISO	Ant1	5825	-5.70	≤30.00	PASS



Power Density Test Graphs



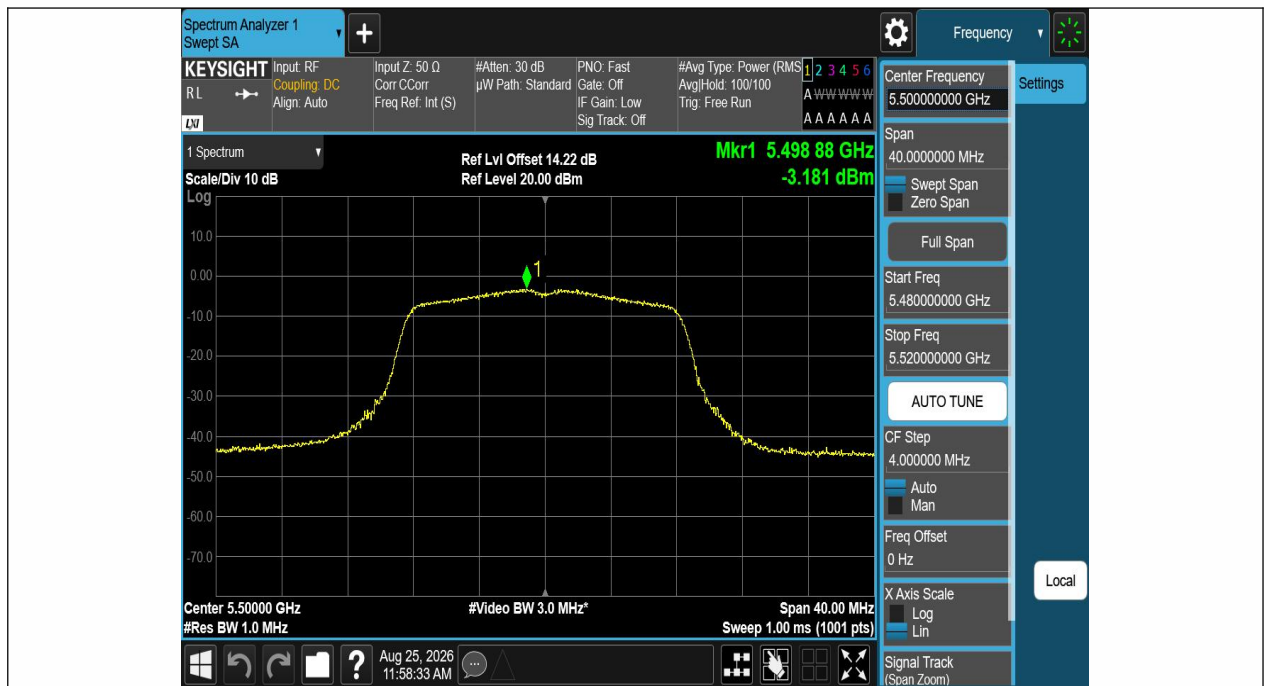


11A-Ant1-5240-PASS



11A-Ant1-5260-PASS



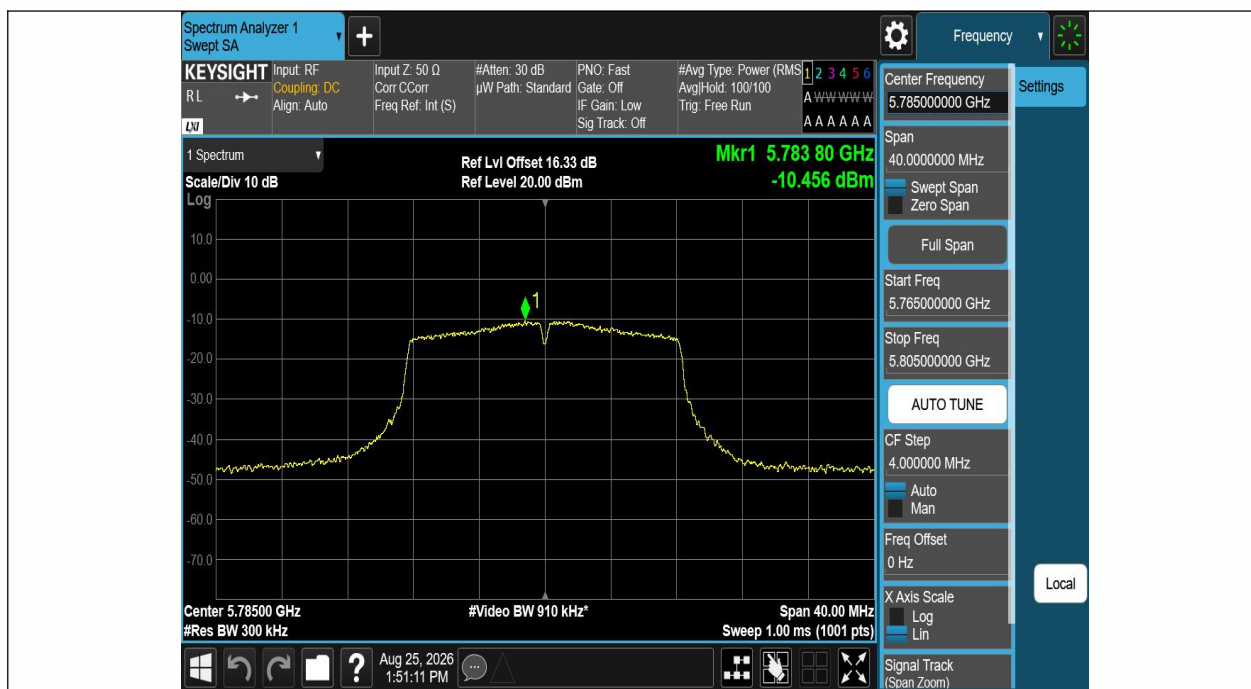


11A-Ant1-5500-PASS

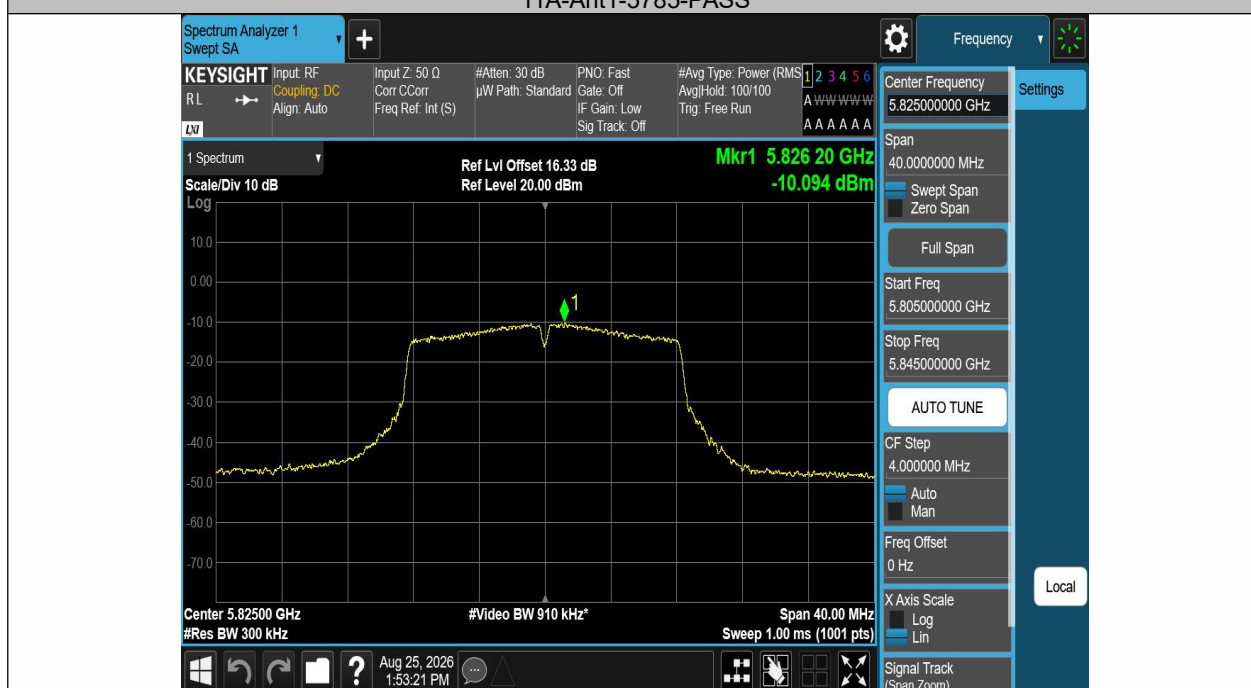


11A-Ant1-5580-PASS



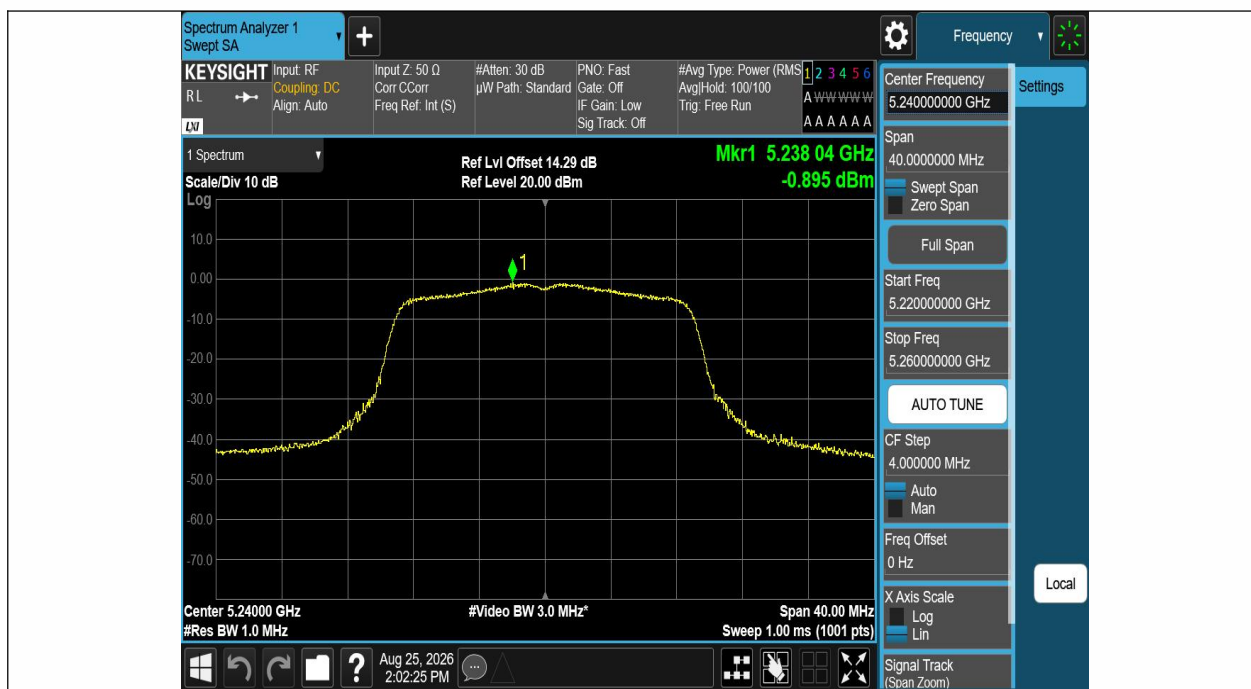


11A-Ant1-5785-PASS



11A-Ant1-5825-PASS

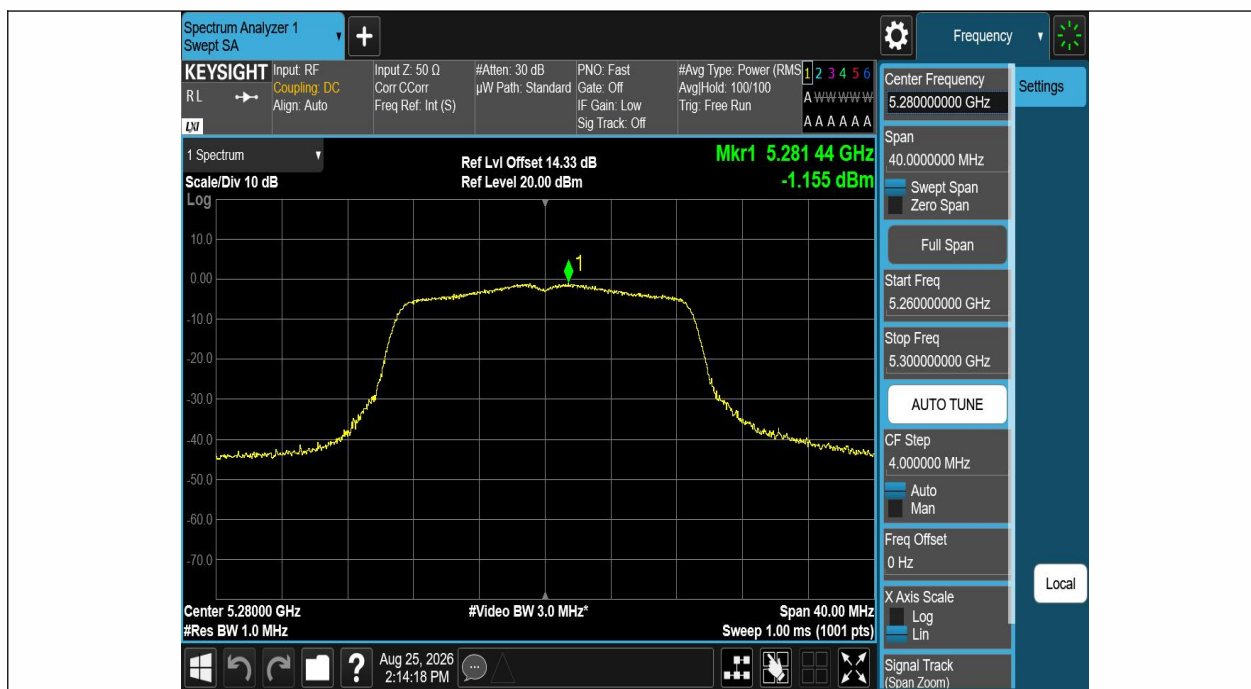




11N20SISO-Ant1-5240-PASS



11N20SISO-Ant1-5260-PASS

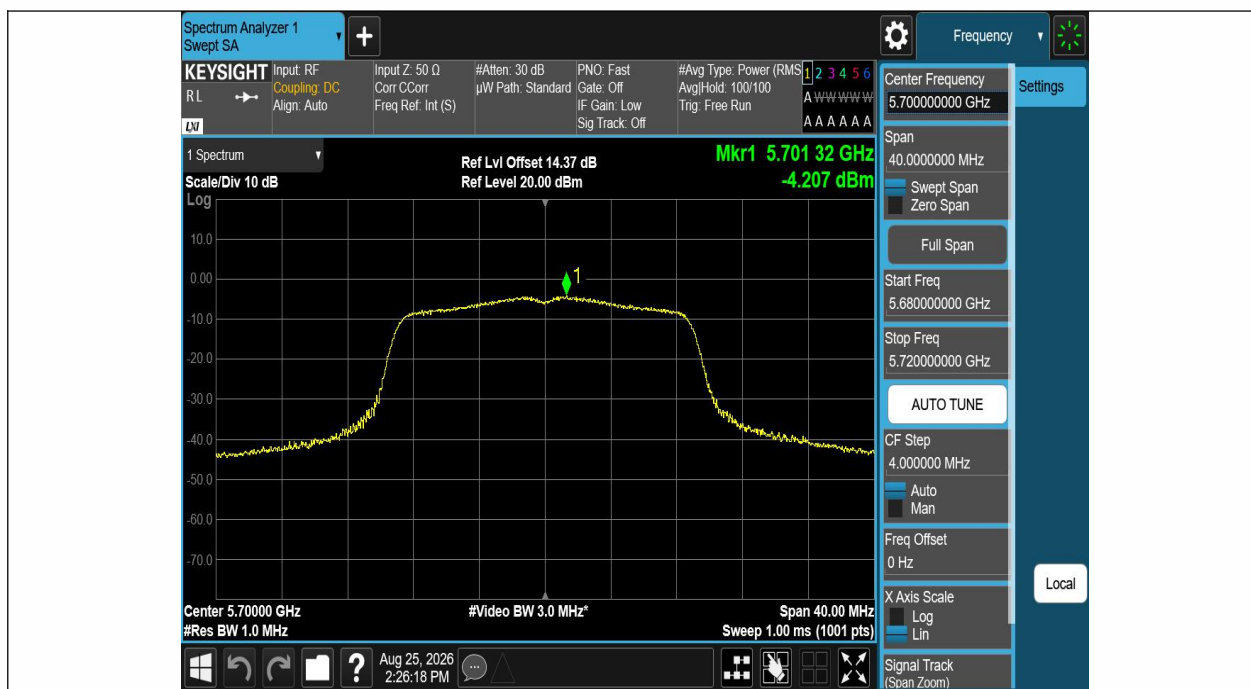


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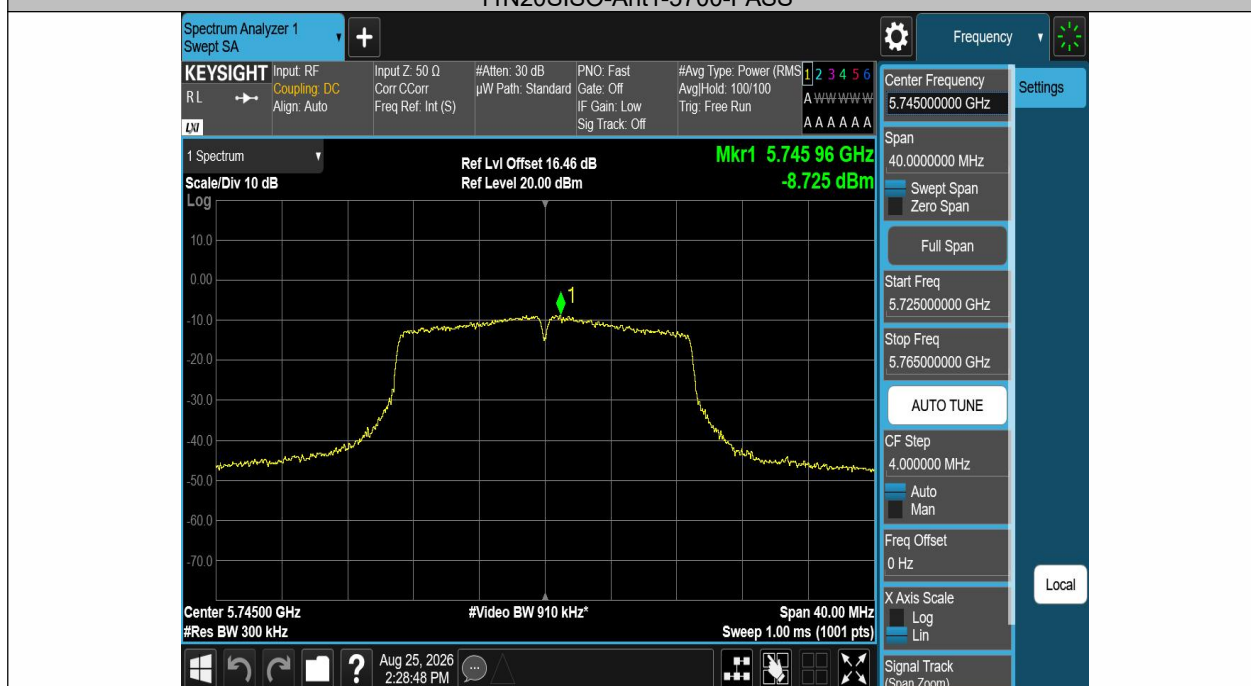


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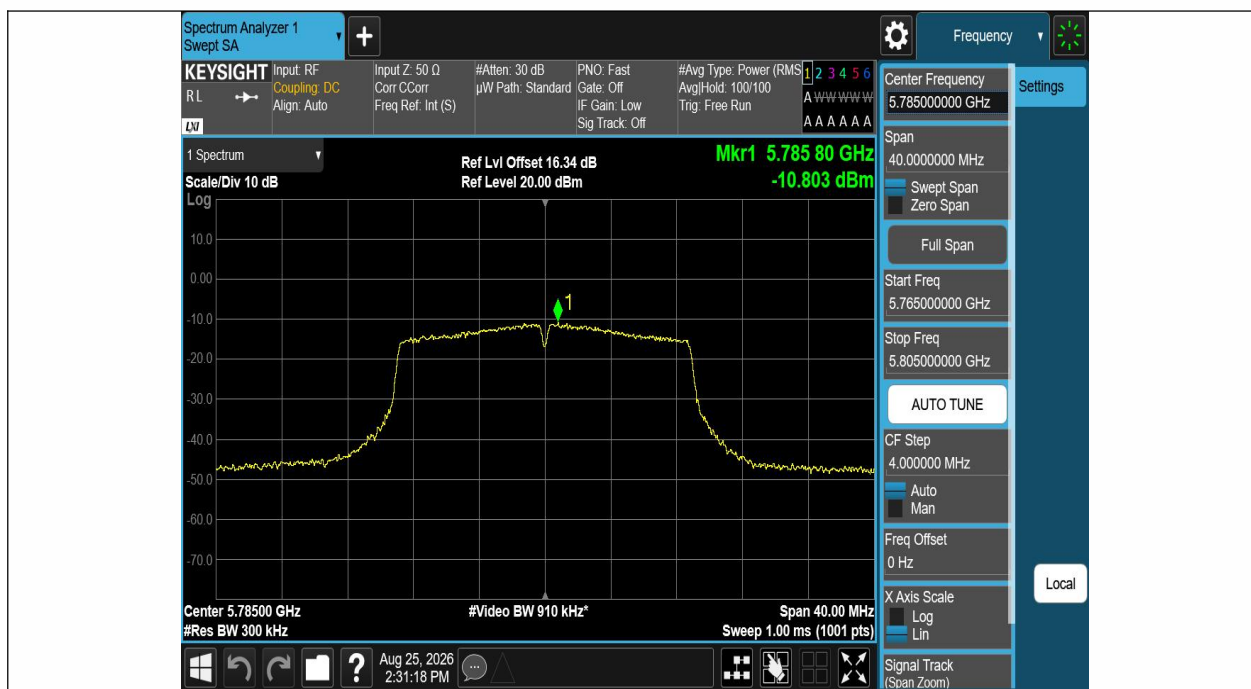




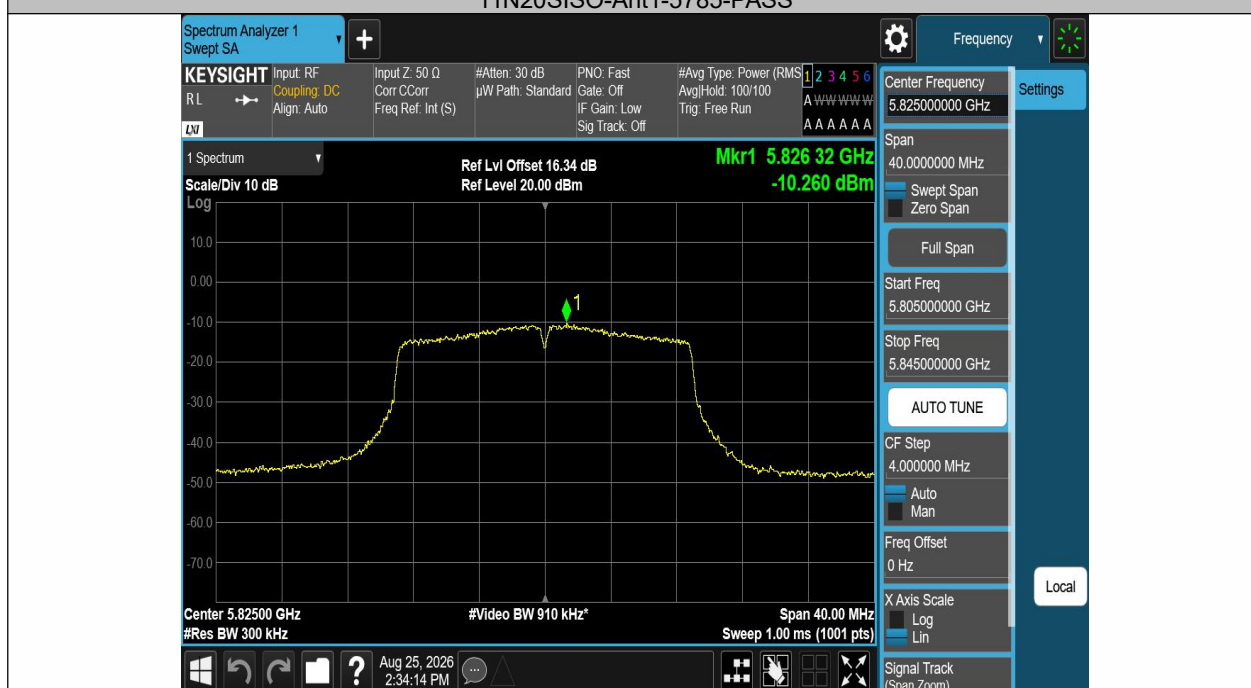
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11N20SISO-Ant1-5745-PASS

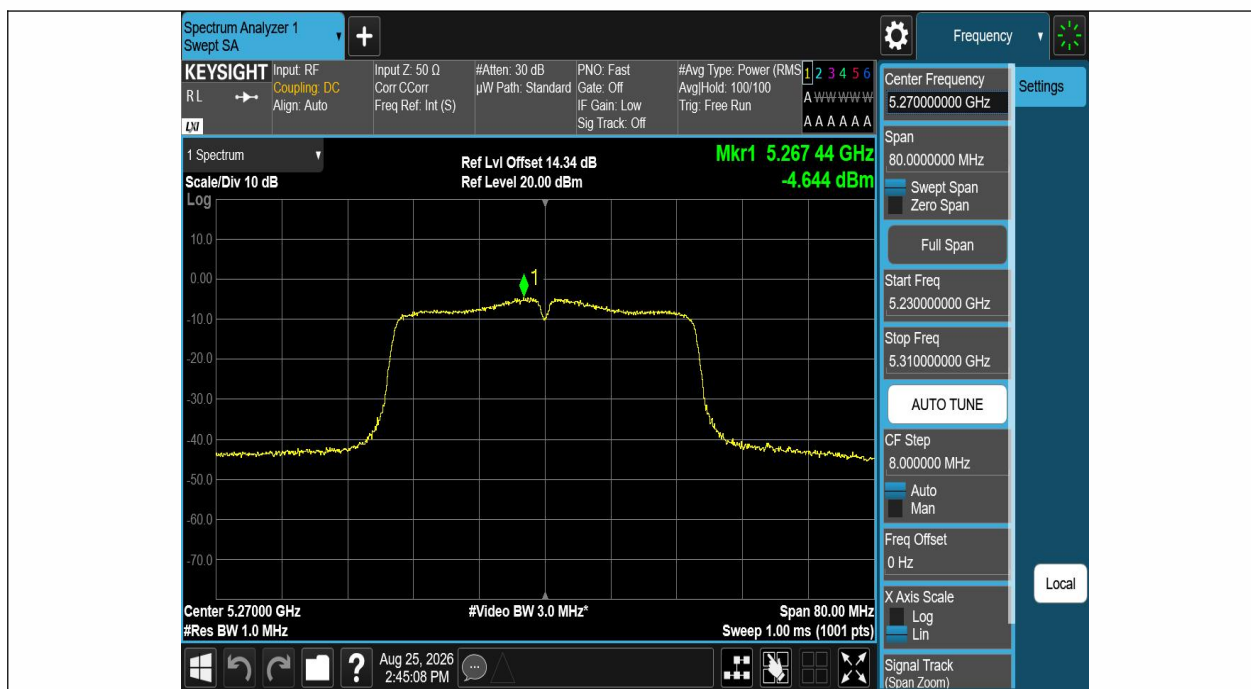


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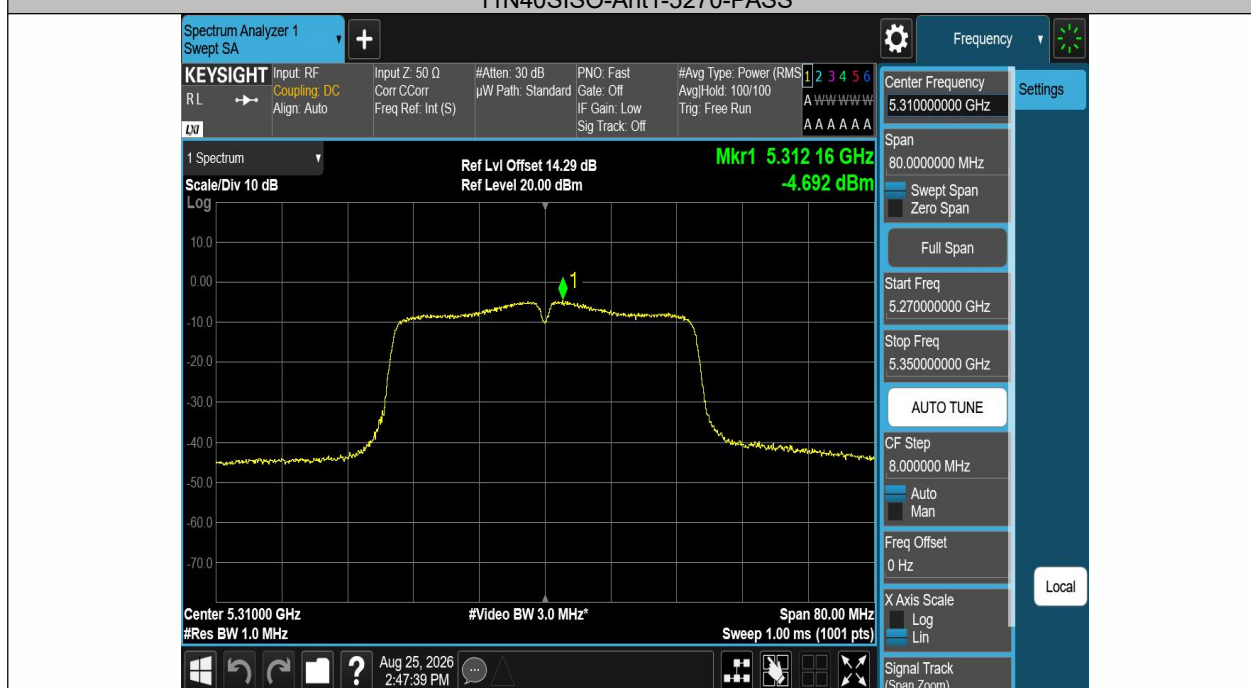


11N20SISO-Ant1-5825-PASS





11N40SISO-Ant1-5270-PASS



11N40SISO-Ant1-5310-PASS

