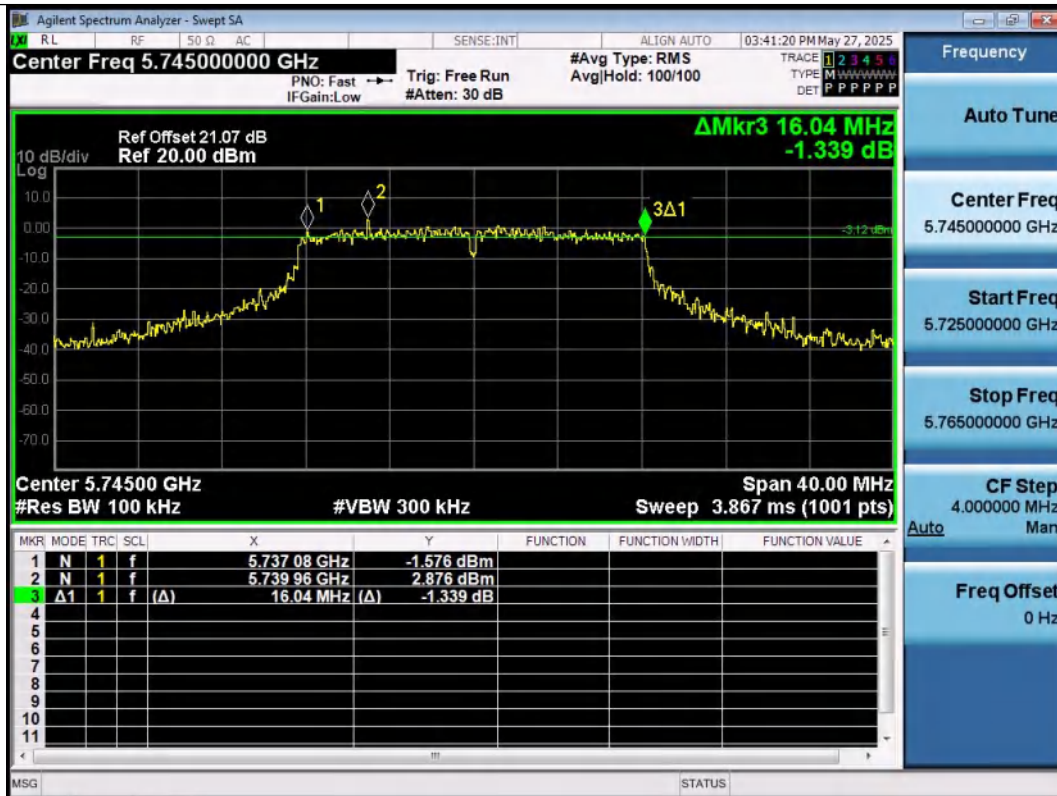
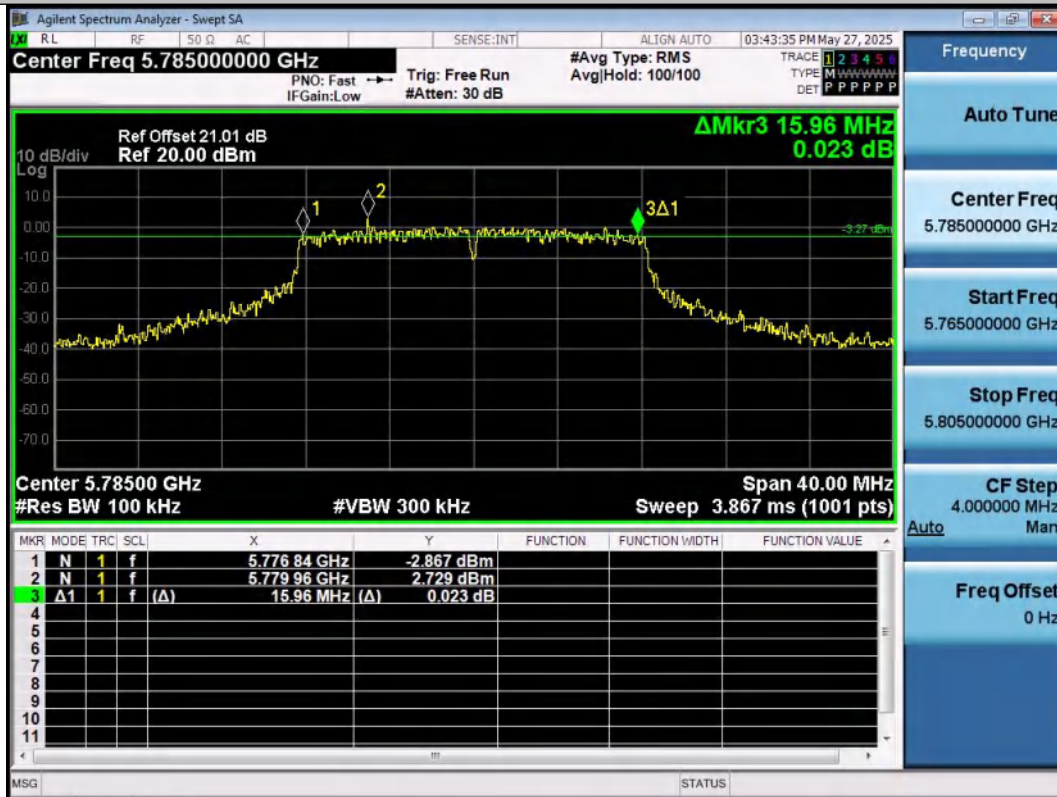
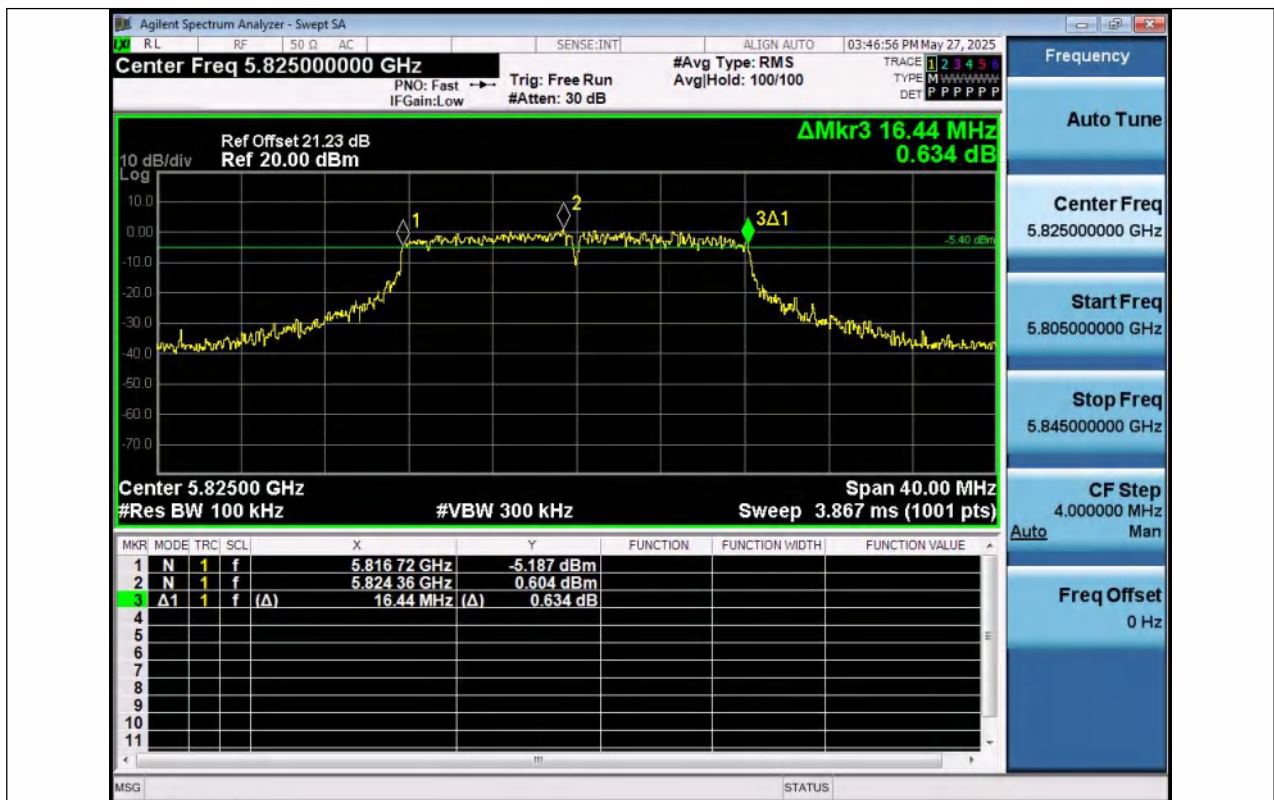




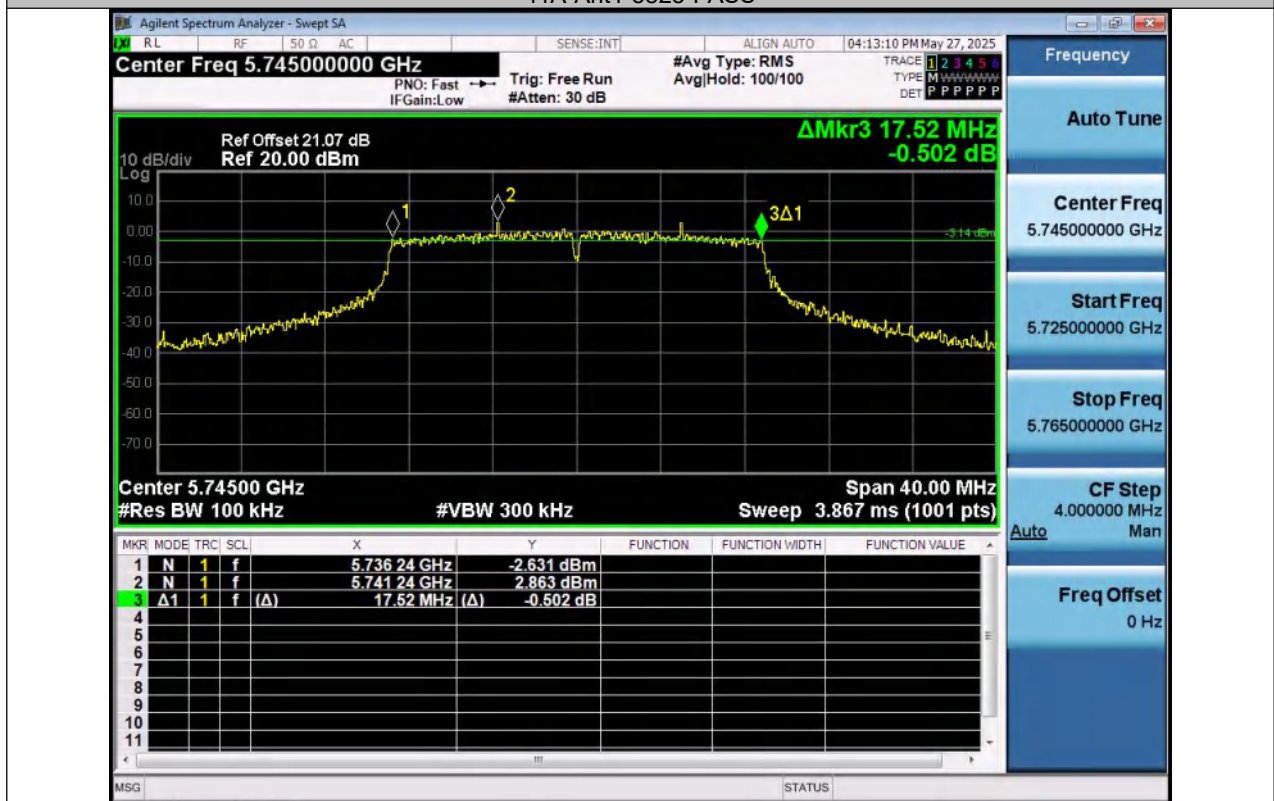
11A-Ant1-5745-PASS



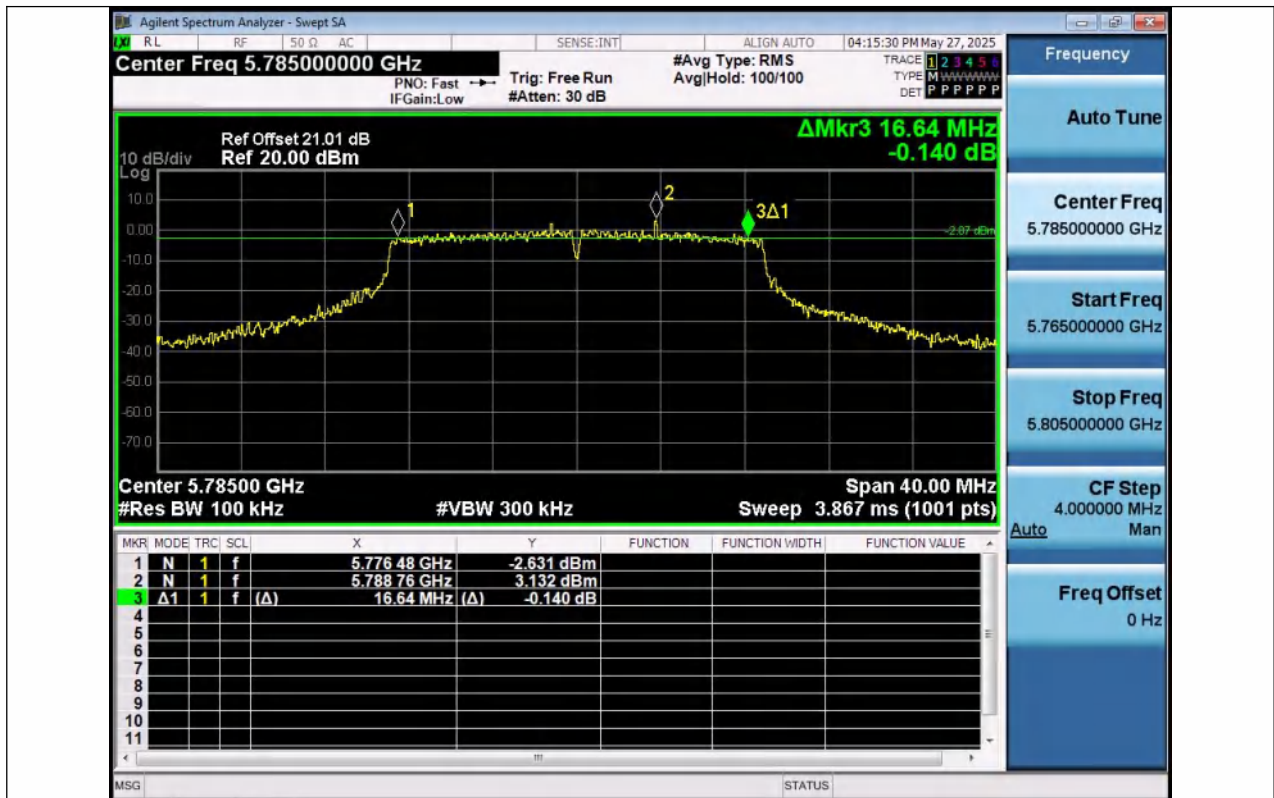
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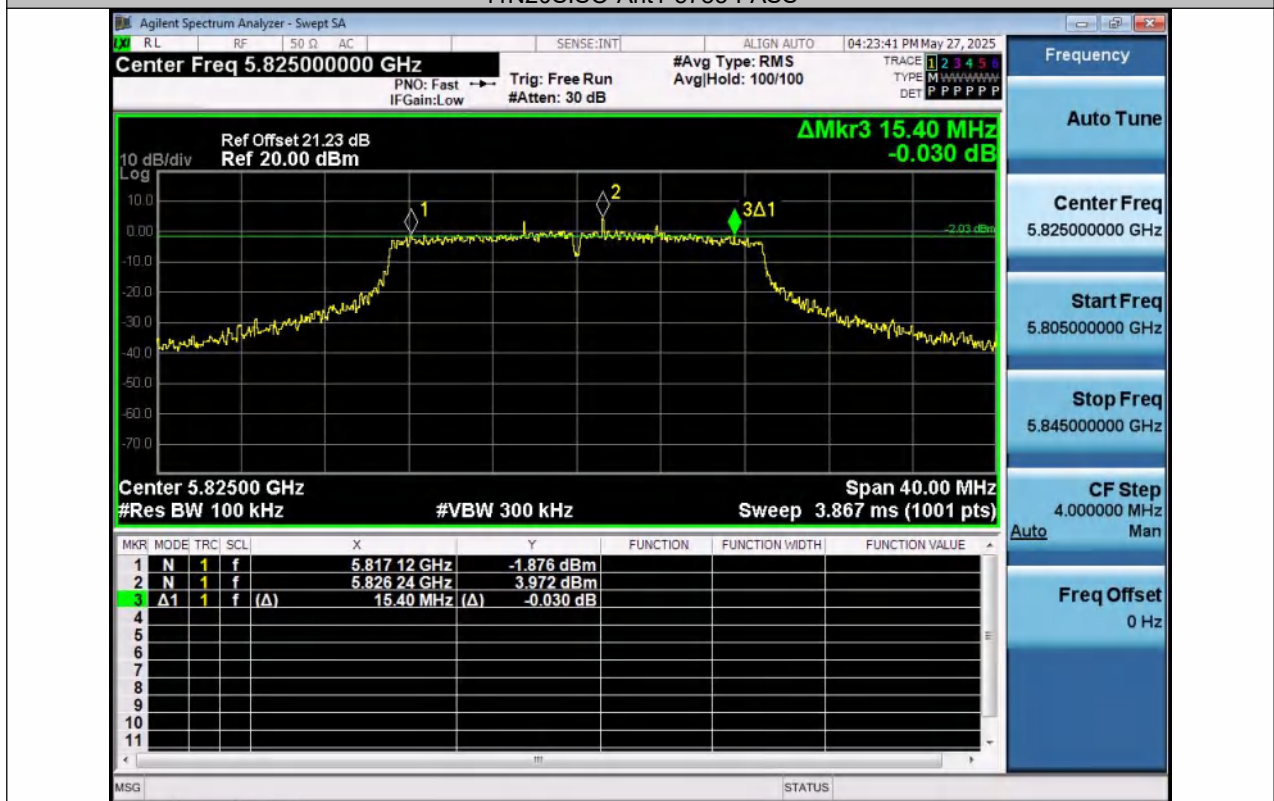
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11N20SISO-Ant1-5745-PASS



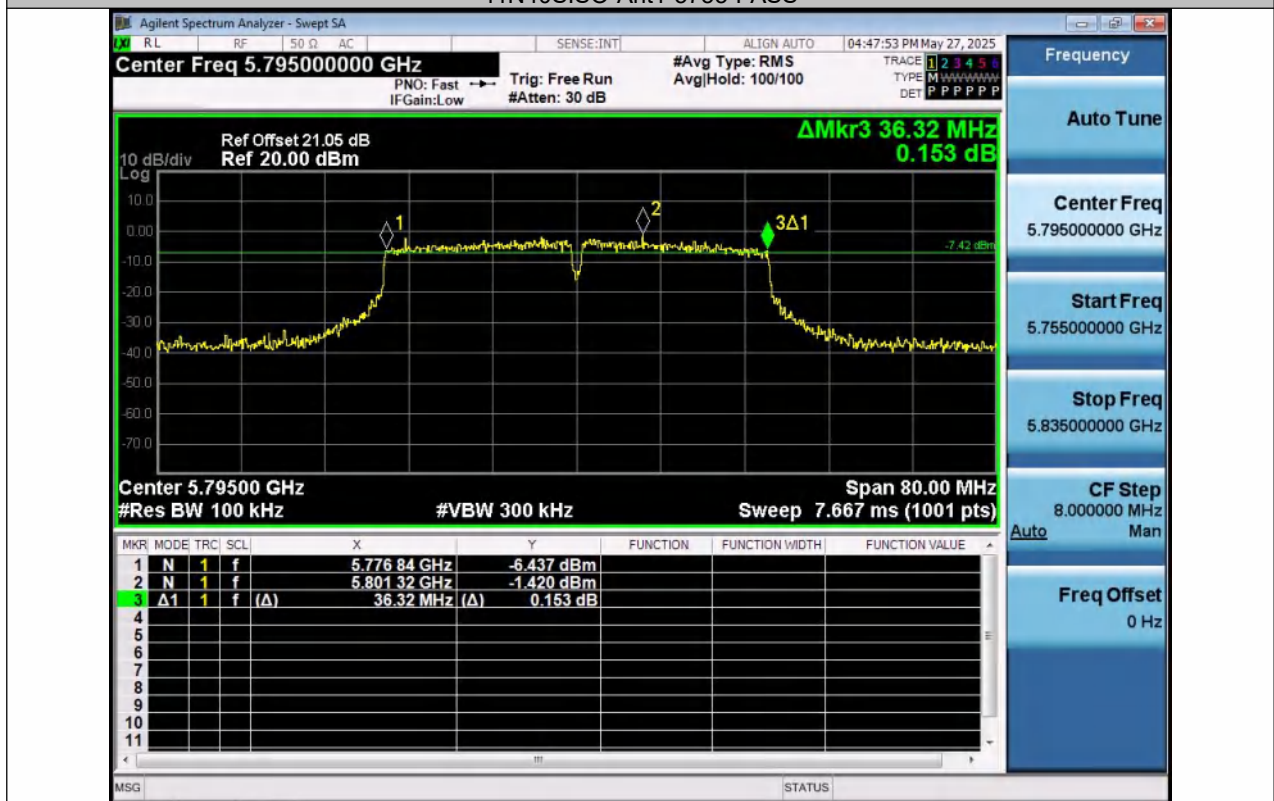
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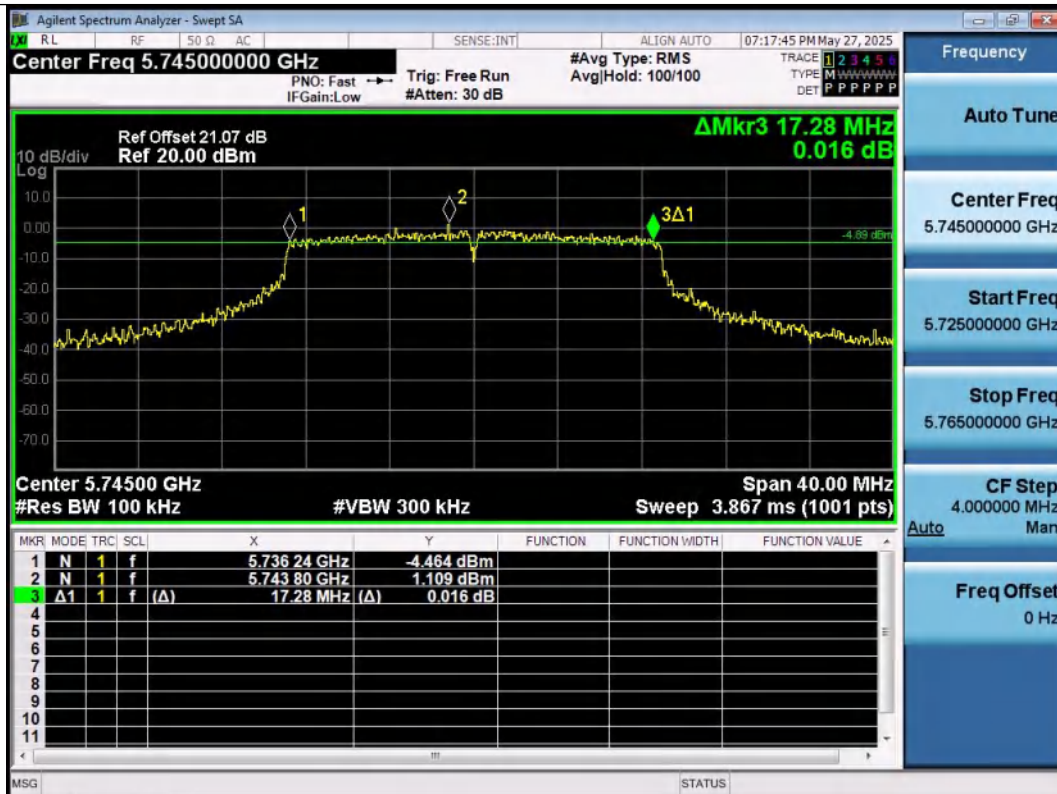
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11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



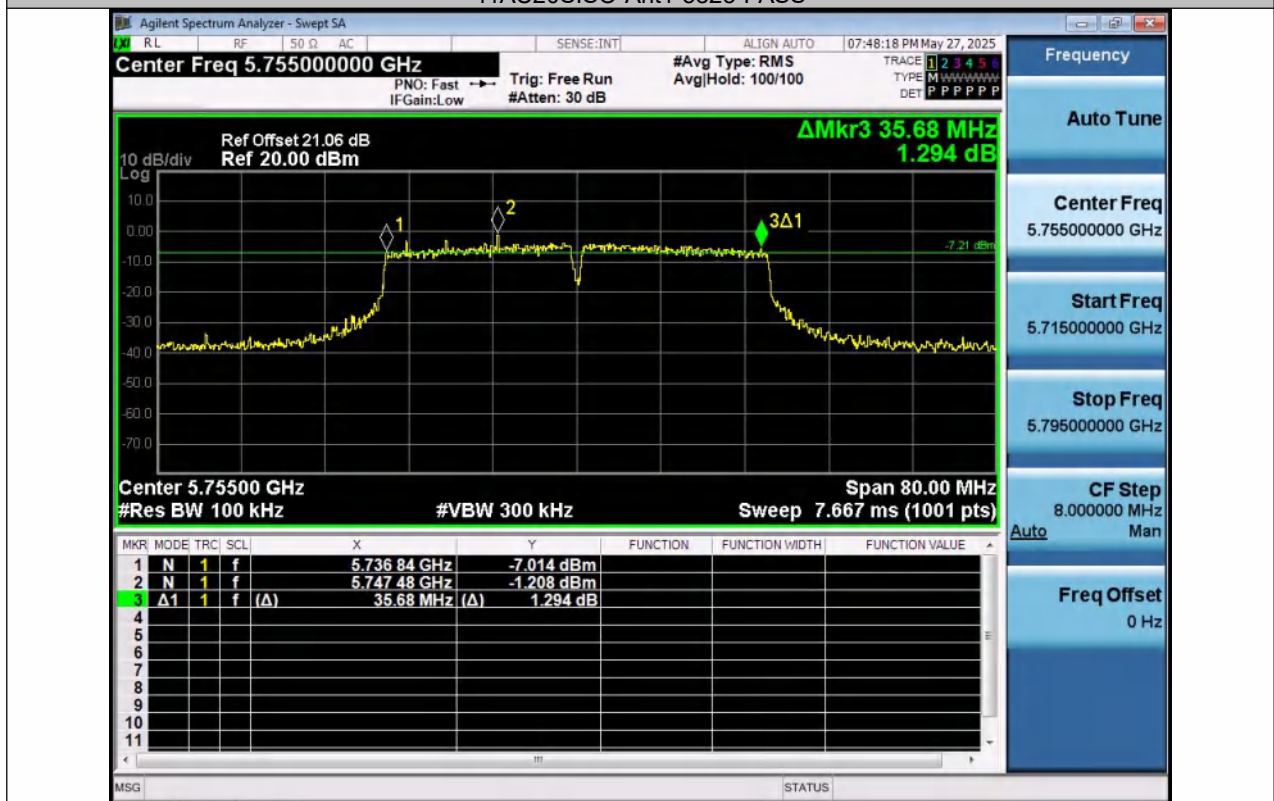
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11AC20SISO-Ant1-5785-PASS



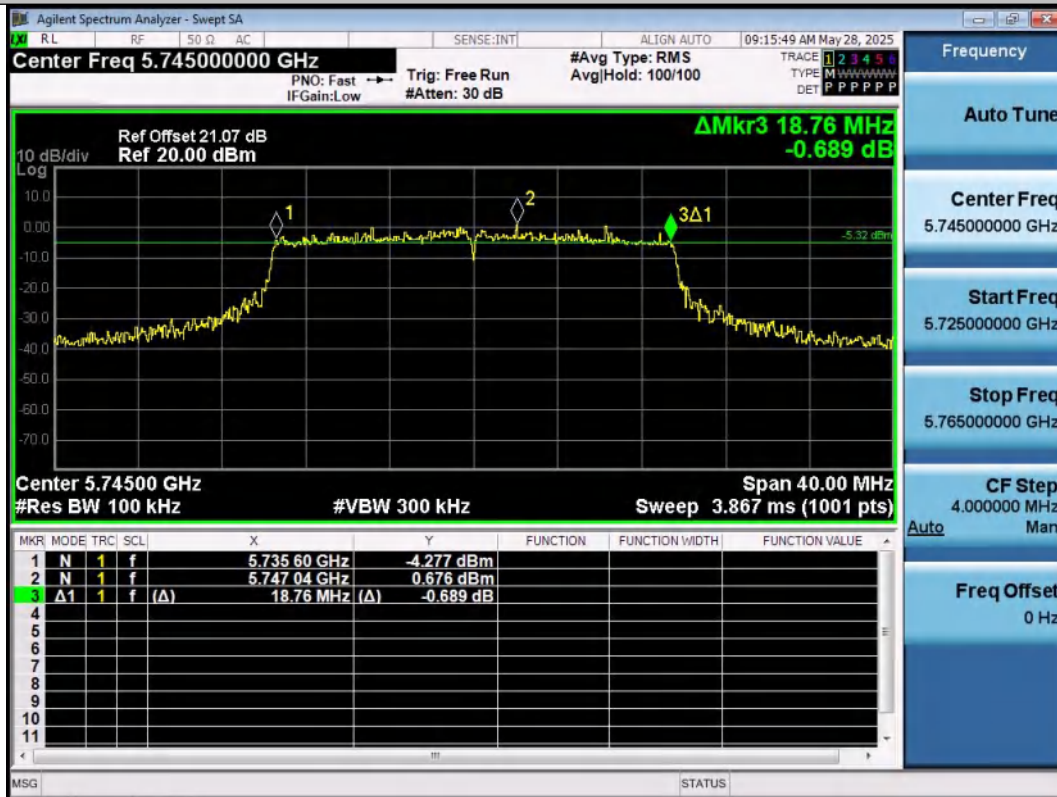
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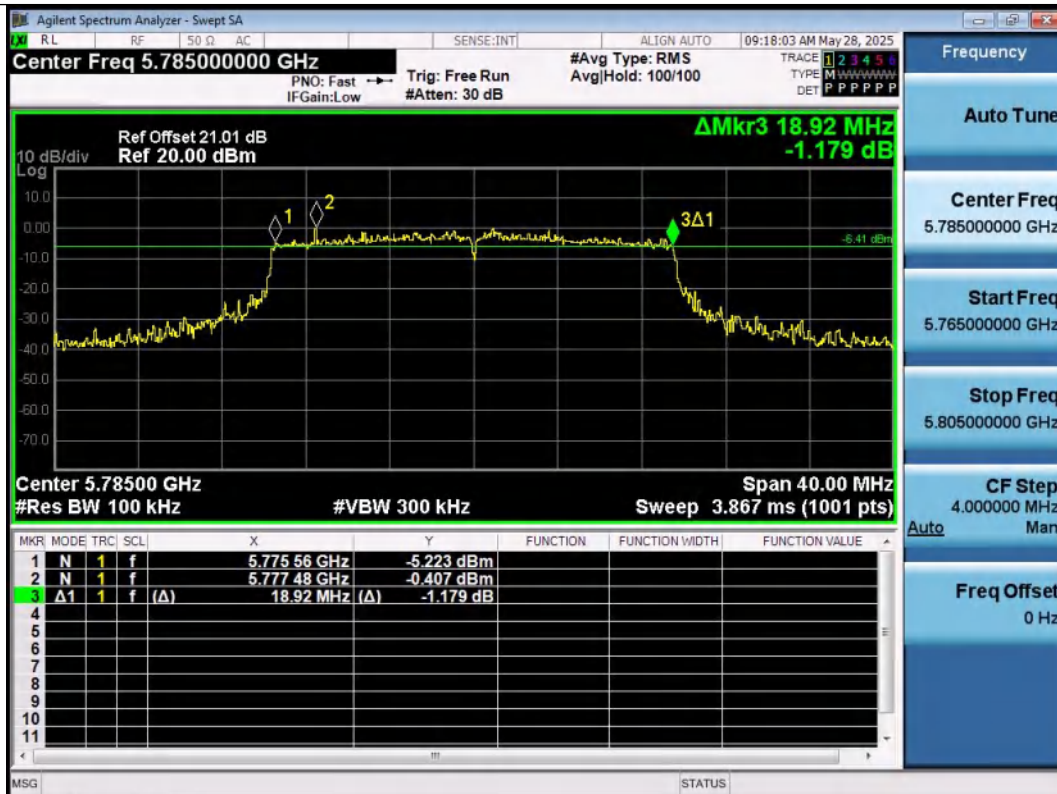
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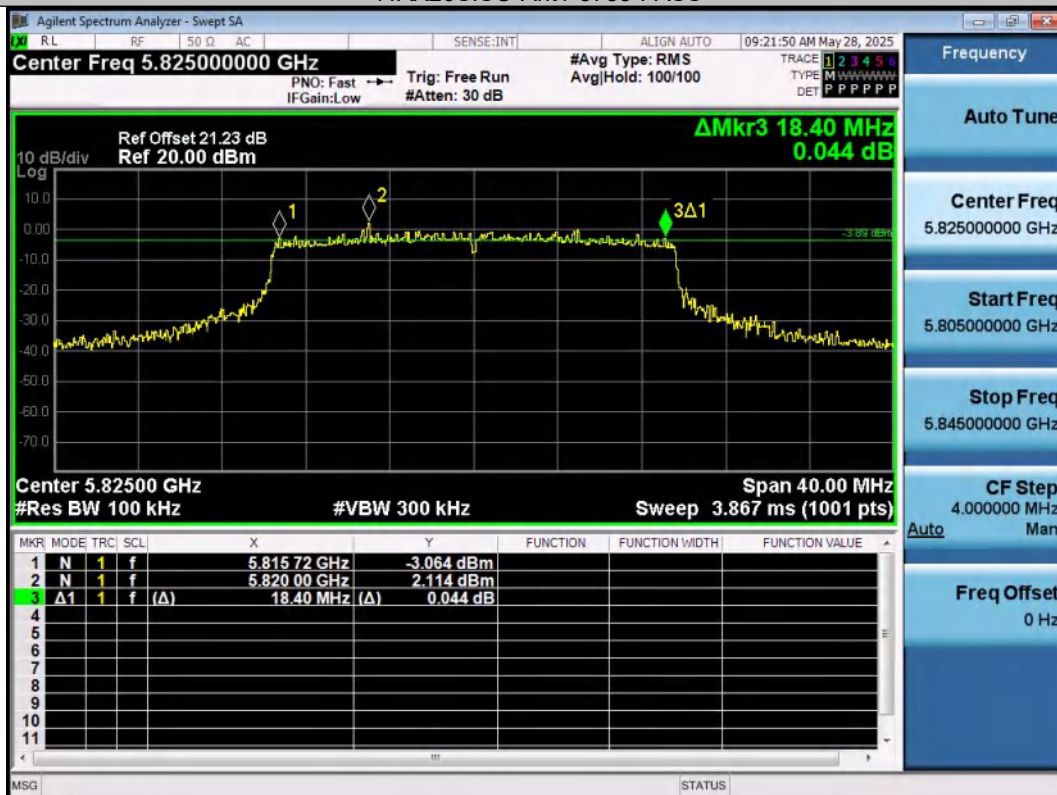
11AC40SISO-Ant1-5795-PASS



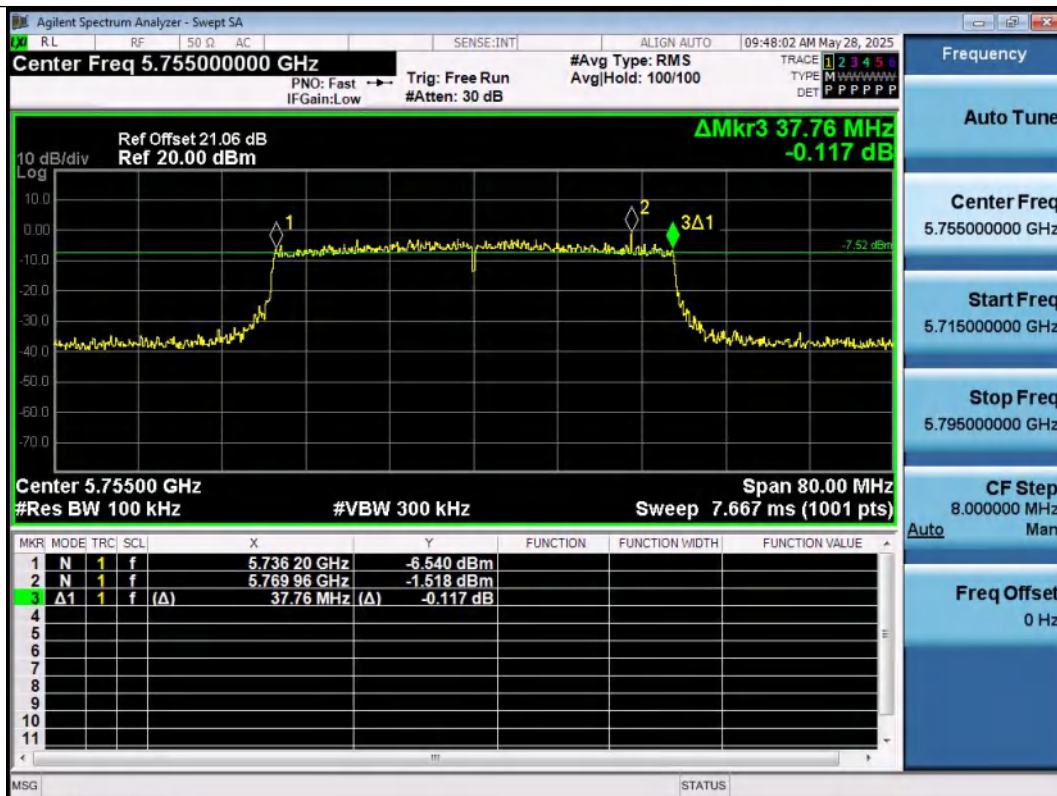
11AX20SISO-Ant1-5745-PASS



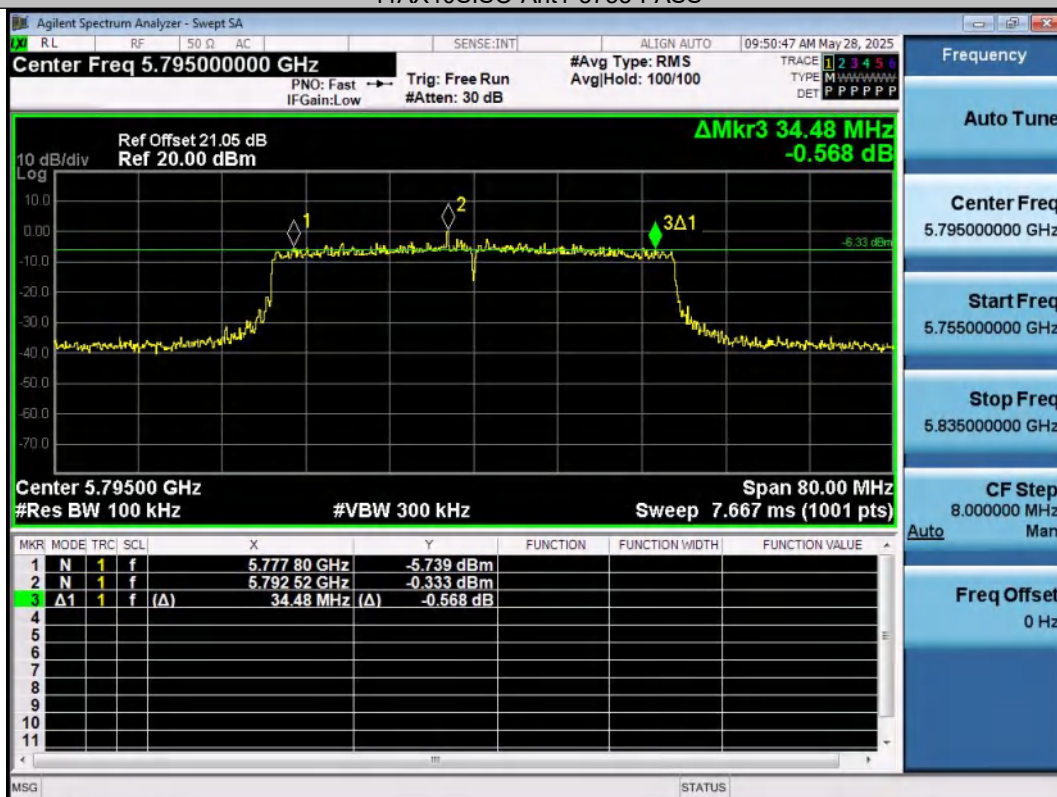
11AX20SISO-Ant1-5785-PASS



11AX20SISO-Ant1-5825-PASS



11AX40SISO-Ant1-5755-PASS



11AX40SISO-Ant1-5795-PASS



8.2 MAXIMUM CONDUCTED OUTPUT POWER

8.2.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I
According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C
According to FCC Part 15.407(a)(3) for UNII Band III
According to 789033 D02 Section II(E)
According to RSS 247, 6.2

8.2.2 Conformance Limit

FCC Limit:

■ For the band 5.15-5.25 GHz

(a)(1) (i) For an outdoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For client devices, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the 5.25-5.35 GHz and 5.47-5.725 GHz bands

(a) (2) The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

■ For the band 5.725-5.85 GHz

(a) (3) The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional

applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations

IC Limit:

■ Frequency band 5150-5250 MHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz.

■ Frequency band 5250-5350 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dBm, whichever is less.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

■ Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

8.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.2.4 Test Procedure

The maximum average conducted output power can be measured using Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

- The Transmitter output (antenna port) was connected to the power meter.
- Turn on the EUT and power meter and then record the power value.
- Repeat above procedures on all channels needed to be tested.

8.2.5 Test Results

Temperature:	25 °C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

Test Mode	Antenna	Frequency[MHz]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	12.26	9.12	15.86	≤23.98	1.38	17.24	---	PASS
11A	Ant1	5200	12.26	9.12	16.15	≤23.98	1.38	17.53	---	PASS
11A	Ant1	5240	12.25	9.12	16.34	≤23.98	1.38	17.72	---	PASS
11A	Ant1	5260	12.26	9.12	17.18	≤23.98	1.38	18.56	---	PASS
11A	Ant1	5280	12.18	9.14	17.53	≤23.98	1.38	18.91	---	PASS
11A	Ant1	5320	12.25	9.12	16.36	≤23.98	1.38	17.74	---	PASS
11A	Ant1	5500	12.25	9.12	15.77	≤23.98	1.42	17.19	---	PASS
11A	Ant1	5580	12.25	9.12	16.08	≤23.98	1.42	17.50	---	PASS
11A	Ant1	5700	12.18	9.14	14.21	≤23.98	1.42	15.63	---	PASS
11A	Ant1	5745	12.25	9.12	13.81	≤30.00	1.47	15.28	---	PASS
11A	Ant1	5785	12.18	9.14	15.04	≤30.00	1.47	16.51	---	PASS
11A	Ant1	5825	12.34	9.09	14.07	≤30.00	1.47	15.54	---	PASS
11N20SIS O	Ant1	5180	33.64	4.73	15.64	≤23.98	1.38	17.02	---	PASS
11N20SIS O	Ant1	5200	33.64	4.73	15.92	≤23.98	1.38	17.30	---	PASS
11N20SIS O	Ant1	5240	33.71	4.72	16.09	≤23.98	1.38	17.47	---	PASS
11N20SIS O	Ant1	5260	33.60	4.74	16.77	≤23.98	1.38	18.15	---	PASS
11N20SIS O	Ant1	5280	33.73	4.72	16.53	≤23.98	1.38	17.91	---	PASS
11N20SIS O	Ant1	5320	33.64	4.73	15.75	≤23.98	1.38	17.13	---	PASS
11N20SIS O	Ant1	5500	33.64	4.73	16.53	≤23.98	1.42	17.95	---	PASS
11N20SIS O	Ant1	5580	33.71	4.72	15.88	≤23.98	1.42	17.30	---	PASS
11N20SIS O	Ant1	5700	33.64	4.73	14.03	≤23.98	1.42	15.45	---	PASS
11N20SIS O	Ant1	5745	33.73	4.72	14.48	≤30.00	1.47	15.95	---	PASS
11N20SIS O	Ant1	5785	33.64	4.73	14.34	≤30.00	1.47	15.81	---	PASS
11N20SIS O	Ant1	5825	33.60	4.74	14.70	≤30.00	1.47	16.17	---	PASS
11N40SIS O	Ant1	5190	32.80	4.84	16.03	≤23.98	1.38	17.41	---	PASS
11N40SIS O	Ant1	5230	32.77	4.85	16.29	≤23.98	1.38	17.67	---	PASS
11N40SIS O	Ant1	5270	32.75	4.85	16.62	≤23.98	1.38	18.00	---	PASS
11N40SIS O	Ant1	5310	32.84	4.84	15.92	≤23.98	1.38	17.30	---	PASS
11N40SIS O	Ant1	5510	32.84	4.84	16.86	≤23.98	1.42	18.28	---	PASS
11N40SIS O	Ant1	5550	32.80	4.84	16.62	≤23.98	1.42	18.04	---	PASS
11N40SIS	Ant1	5670	32.75	4.85	14.42	≤23.98	1.42	15.84	---	PASS

O										
11N40SIS O	Ant1	5755	32.89	4.83	14.20	≤30.00	1.47	15.67	---	PASS
11N40SIS O	Ant1	5795	32.82	4.84	14.18	≤30.00	1.47	15.65	---	PASS
11AC20SI SO	Ant1	5180	33.64	4.73	15.32	≤23.98	1.38	16.70	---	PASS
11AC20SI SO	Ant1	5200	33.71	4.72	15.00	≤23.98	1.38	16.38	---	PASS
11AC20SI SO	Ant1	5240	33.71	4.72	15.35	≤23.98	1.38	16.73	---	PASS
11AC20SI SO	Ant1	5260	33.73	4.72	15.54	≤23.98	1.38	16.92	---	PASS
11AC20SI SO	Ant1	5280	33.73	4.72	15.48	≤23.98	1.38	16.86	---	PASS
11AC20SI SO	Ant1	5320	33.73	4.72	14.81	≤23.98	1.38	16.19	---	PASS
11AC20SI SO	Ant1	5500	33.60	4.74	15.47	≤23.98	1.42	16.89	---	PASS
11AC20SI SO	Ant1	5580	33.73	4.72	14.91	≤23.98	1.42	16.33	---	PASS
11AC20SI SO	Ant1	5700	33.73	4.72	12.73	≤23.98	1.42	14.15	---	PASS
11AC20SI SO	Ant1	5745	33.69	4.72	13.46	≤30.00	1.47	14.93	---	PASS
11AC20SI SO	Ant1	5785	33.69	4.72	13.26	≤30.00	1.47	14.73	---	PASS
11AC20SI SO	Ant1	5825	33.73	4.72	13.57	≤30.00	1.47	15.04	---	PASS
11AC40SI SO	Ant1	5190	32.84	4.84	15.04	≤23.98	1.38	16.42	---	PASS
11AC40SI SO	Ant1	5230	32.80	4.84	15.18	≤23.98	1.38	16.56	---	PASS
11AC40SI SO	Ant1	5270	32.84	4.84	15.59	≤23.98	1.38	16.97	---	PASS
11AC40SI SO	Ant1	5310	32.80	4.84	14.62	≤23.98	1.38	16.00	---	PASS
11AC40SI SO	Ant1	5510	32.80	4.84	15.36	≤23.98	1.42	16.78	---	PASS
11AC40SI SO	Ant1	5550	32.80	4.84	15.84	≤23.98	1.42	17.26	---	PASS
11AC40SI SO	Ant1	5670	32.93	4.82	13.35	≤23.98	1.42	14.77	---	PASS
11AC40SI SO	Ant1	5755	32.82	4.84	13.31	≤30.00	1.47	14.78	---	PASS
11AC40SI SO	Ant1	5795	32.78	4.84	12.96	≤30.00	1.47	14.43	---	PASS
11AX20SIS O	Ant1	5180	27.91	5.54	15.21	≤23.98	1.38	16.59	---	PASS
11AX20SIS O	Ant1	5200	27.86	5.55	14.95	≤23.98	1.38	16.33	---	PASS
11AX20SIS O	Ant1	5240	27.91	5.54	15.40	≤23.98	1.38	16.78	---	PASS
11AX20SIS O	Ant1	5260	27.91	5.54	15.53	≤23.98	1.38	16.91	---	PASS
11AX20SIS O	Ant1	5280	27.70	5.58	15.77	≤23.98	1.38	17.15	---	PASS
11AX20SIS O	Ant1	5320	27.91	5.54	14.98	≤23.98	1.38	16.36	---	PASS

11AX20SIS O	Ant1	5500	27.91	5.54	15.51	≤23.98	1.42	16.93	---	PASS
11AX20SIS O	Ant1	5580	27.84	5.55	14.92	≤23.98	1.42	16.34	---	PASS
11AX20SIS O	Ant1	5700	27.91	5.54	13.02	≤23.98	1.42	14.44	---	PASS
11AX20SIS O	Ant1	5745	27.91	5.54	13.63	≤30.00	1.47	15.10	---	PASS
11AX20SIS O	Ant1	5785	27.91	5.54	13.63	≤30.00	1.47	15.10	---	PASS
11AX20SIS O	Ant1	5825	27.77	5.56	13.47	≤30.00	1.47	14.94	---	PASS
11AX40SIS O	Ant1	5190	27.65	5.58	15.10	≤23.98	1.38	16.48	---	PASS
11AX40SIS O	Ant1	5230	27.91	5.54	15.46	≤23.98	1.38	16.84	---	PASS
11AX40SIS O	Ant1	5270	27.84	5.55	15.89	≤23.98	1.38	17.27	---	PASS
11AX40SIS O	Ant1	5310	27.91	5.54	14.92	≤23.98	1.38	16.30	---	PASS
11AX40SIS O	Ant1	5510	27.91	5.54	15.72	≤23.98	1.42	17.14	---	PASS
11AX40SIS O	Ant1	5550	27.91	5.54	15.77	≤23.98	1.42	17.19	---	PASS
11AX40SIS O	Ant1	5670	27.72	5.57	13.59	≤23.98	1.42	15.01	---	PASS
11AX40SIS O	Ant1	5755	27.91	5.54	13.66	≤30.00	1.47	15.13	---	PASS
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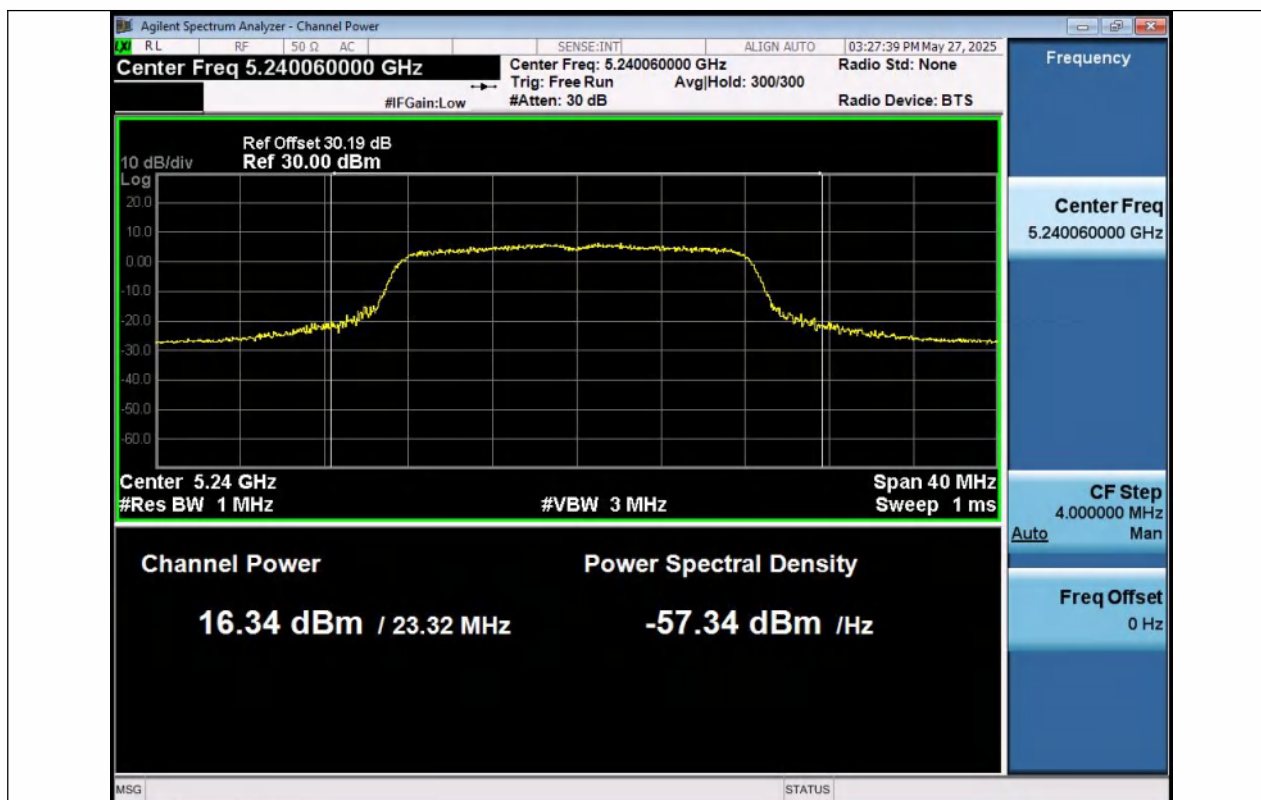
Note: The Duty Cycle Factor is compensated in the graph.
EIRP = conducted power + directional gain



11A-Ant1-5180-PASS



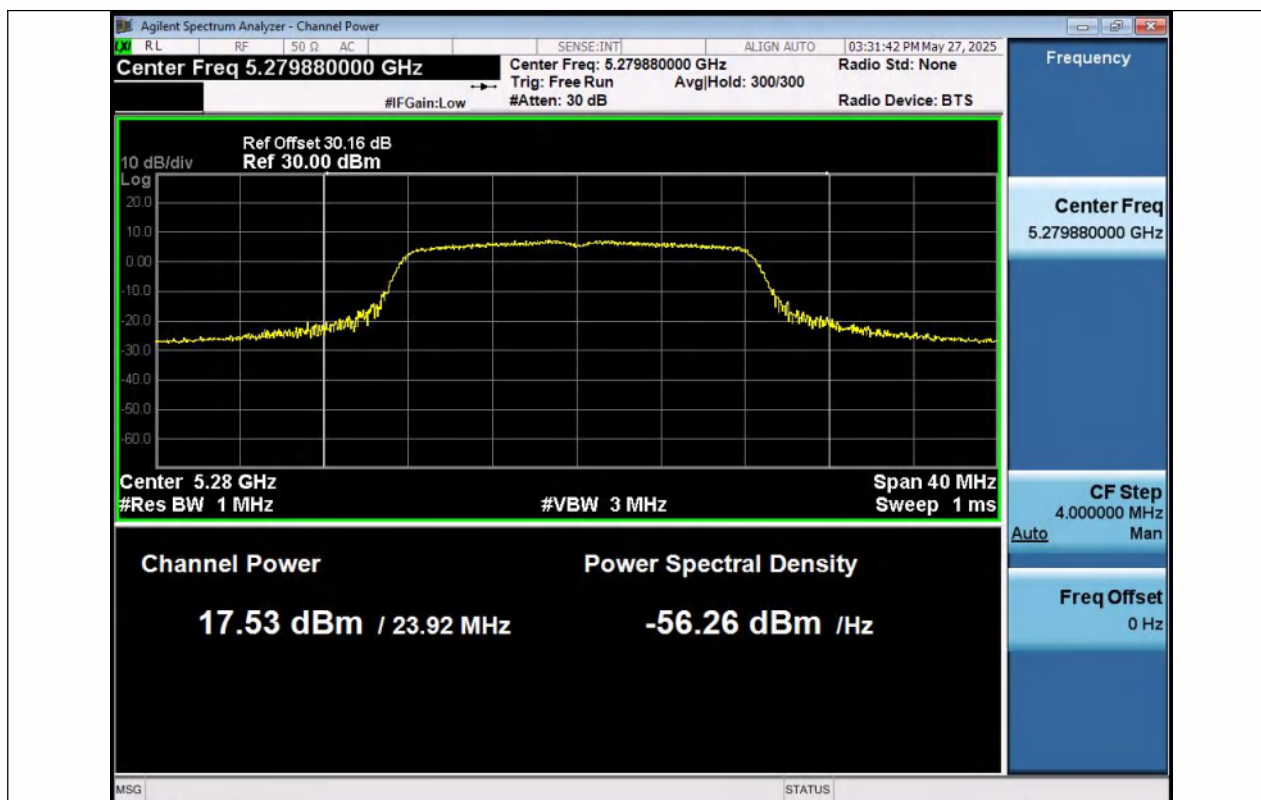
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11A-Ant1-5240-PASS



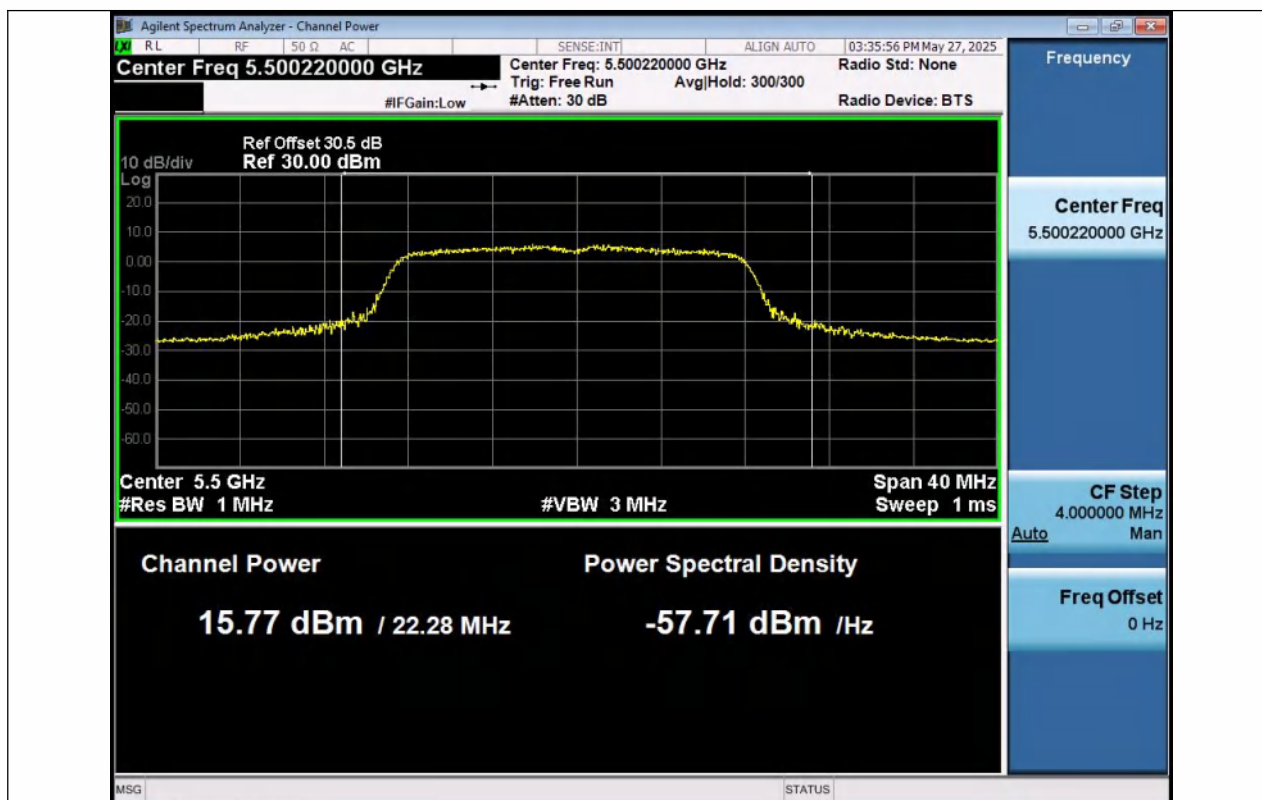
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11A-Ant1-5280-PASS



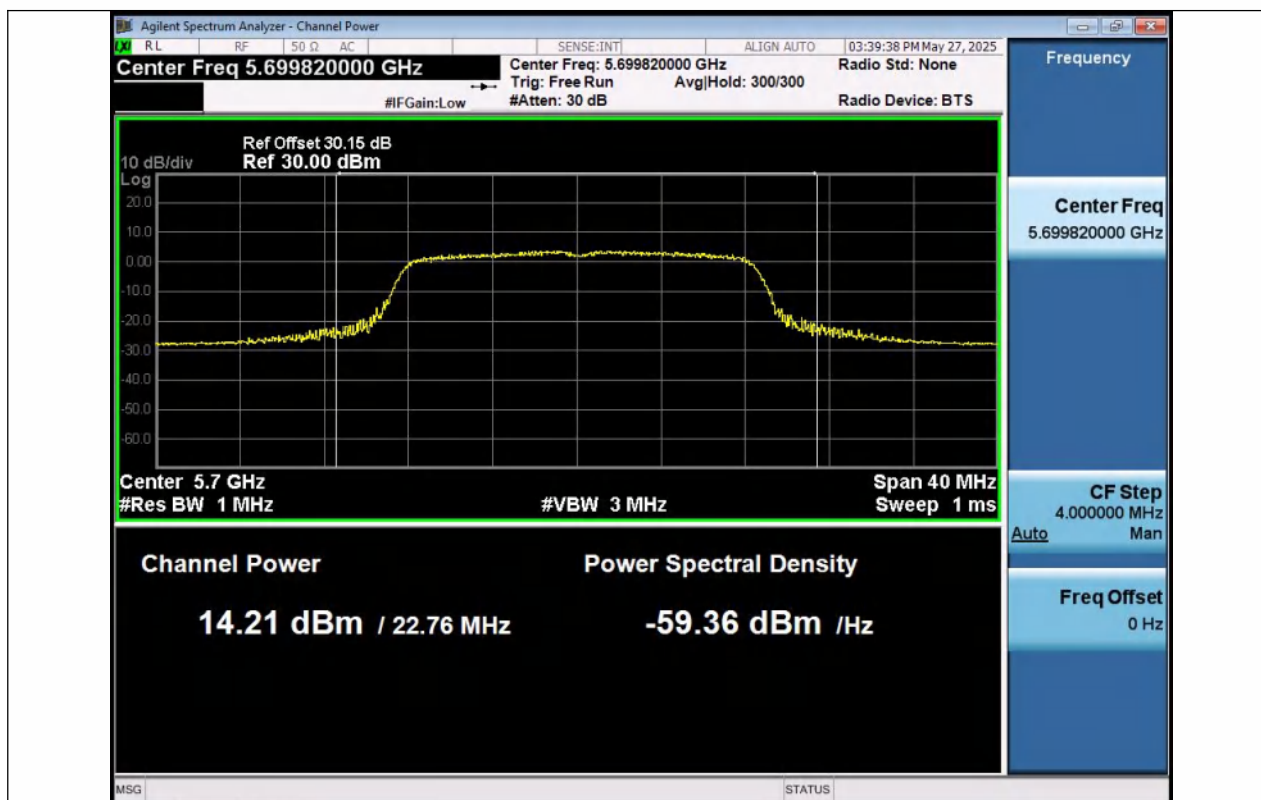
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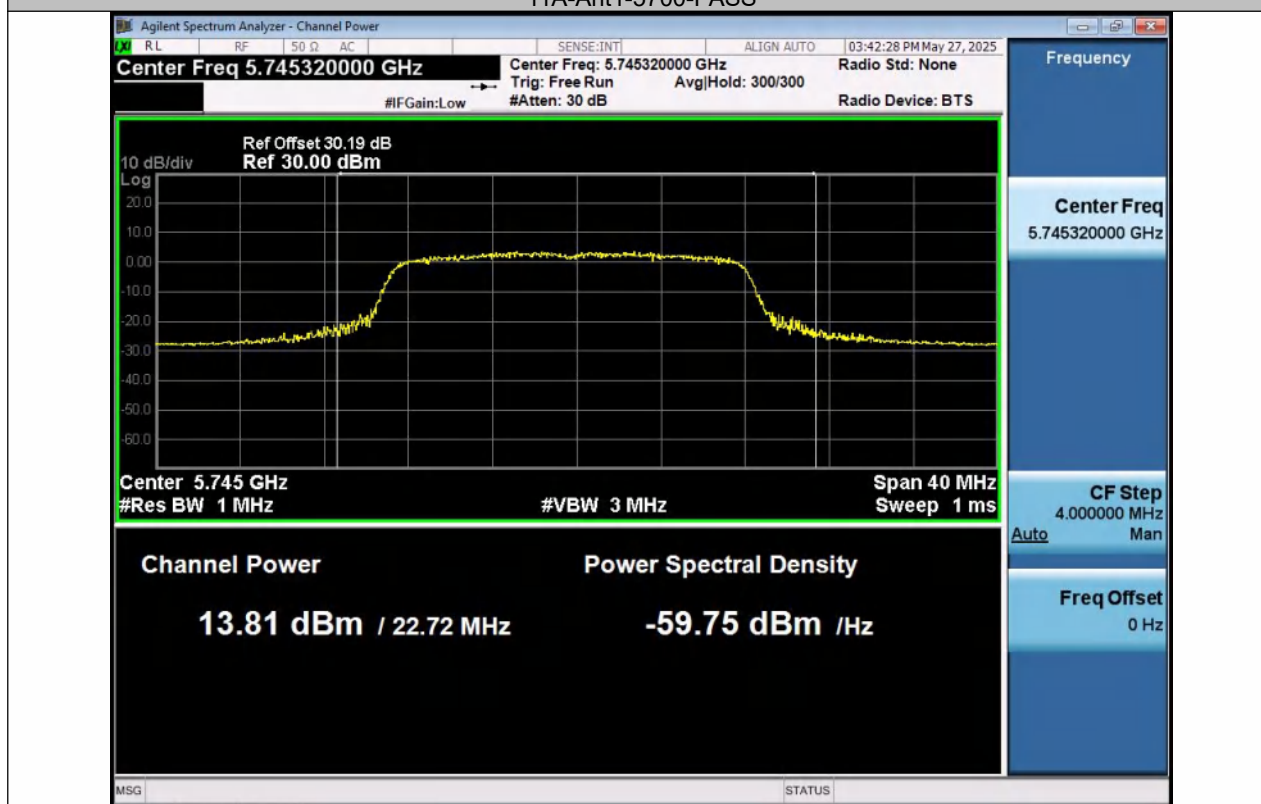
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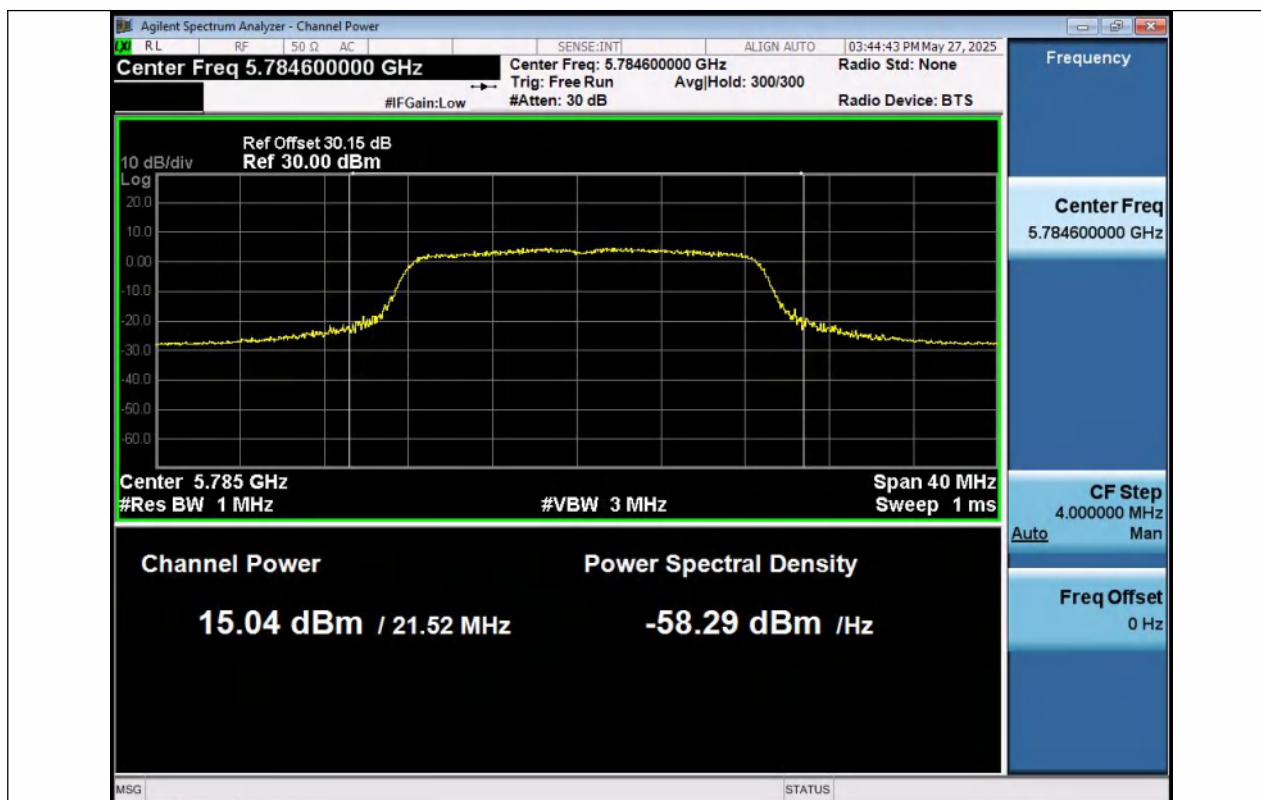
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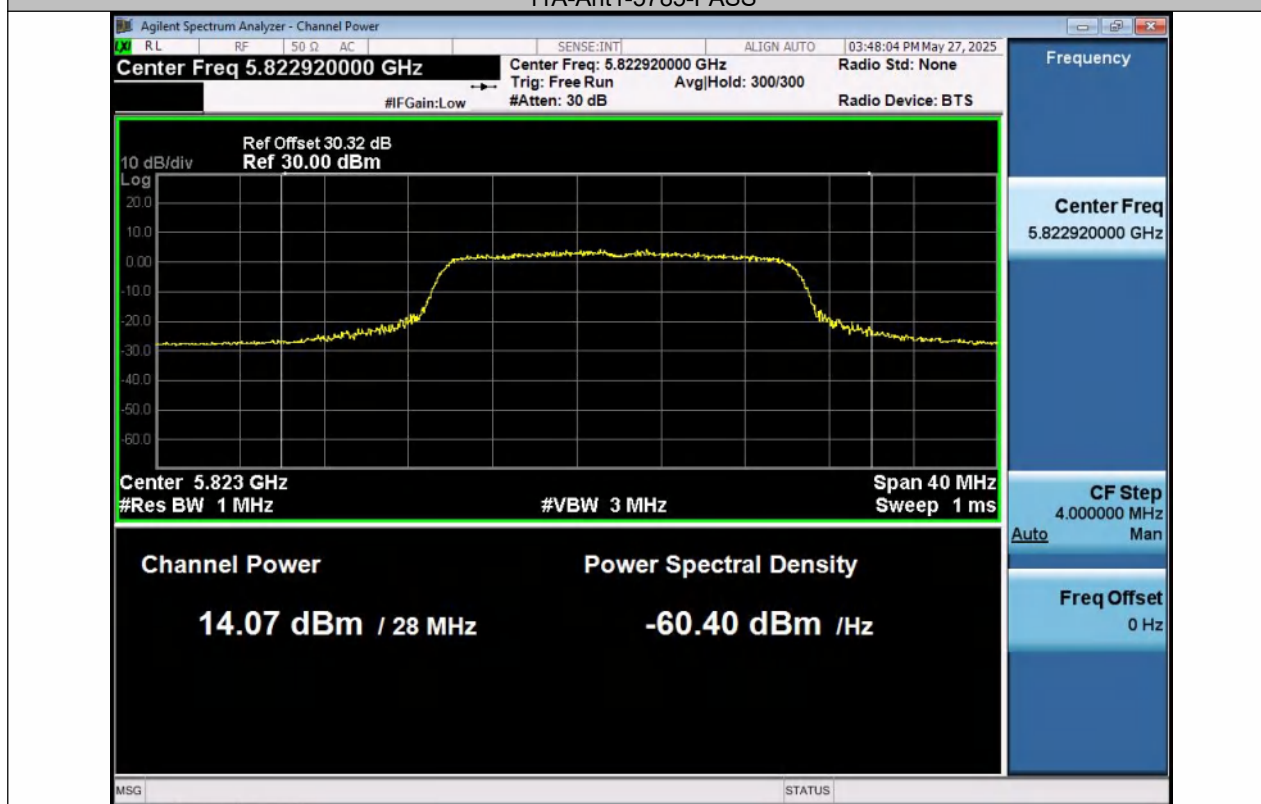
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11A-Ant1-5745-PASS



11A-Ant1-5785-PASS



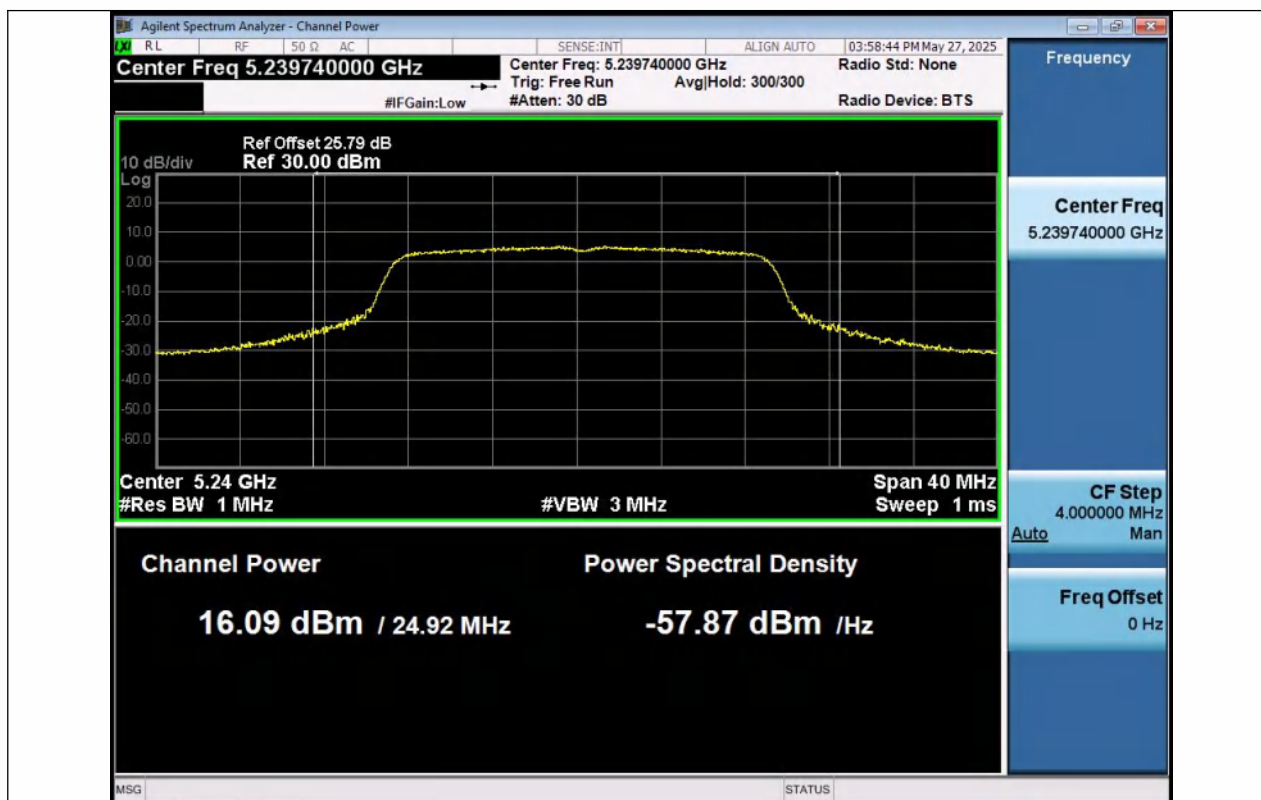
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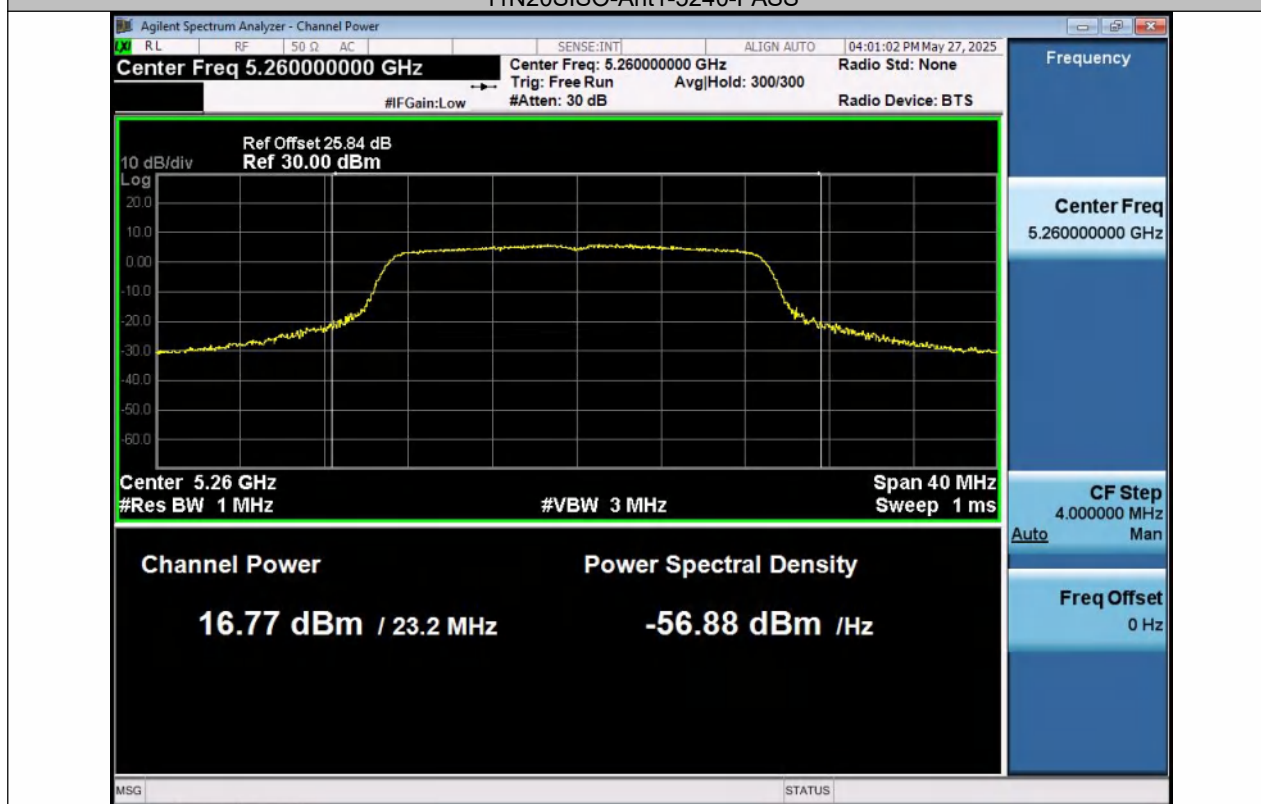
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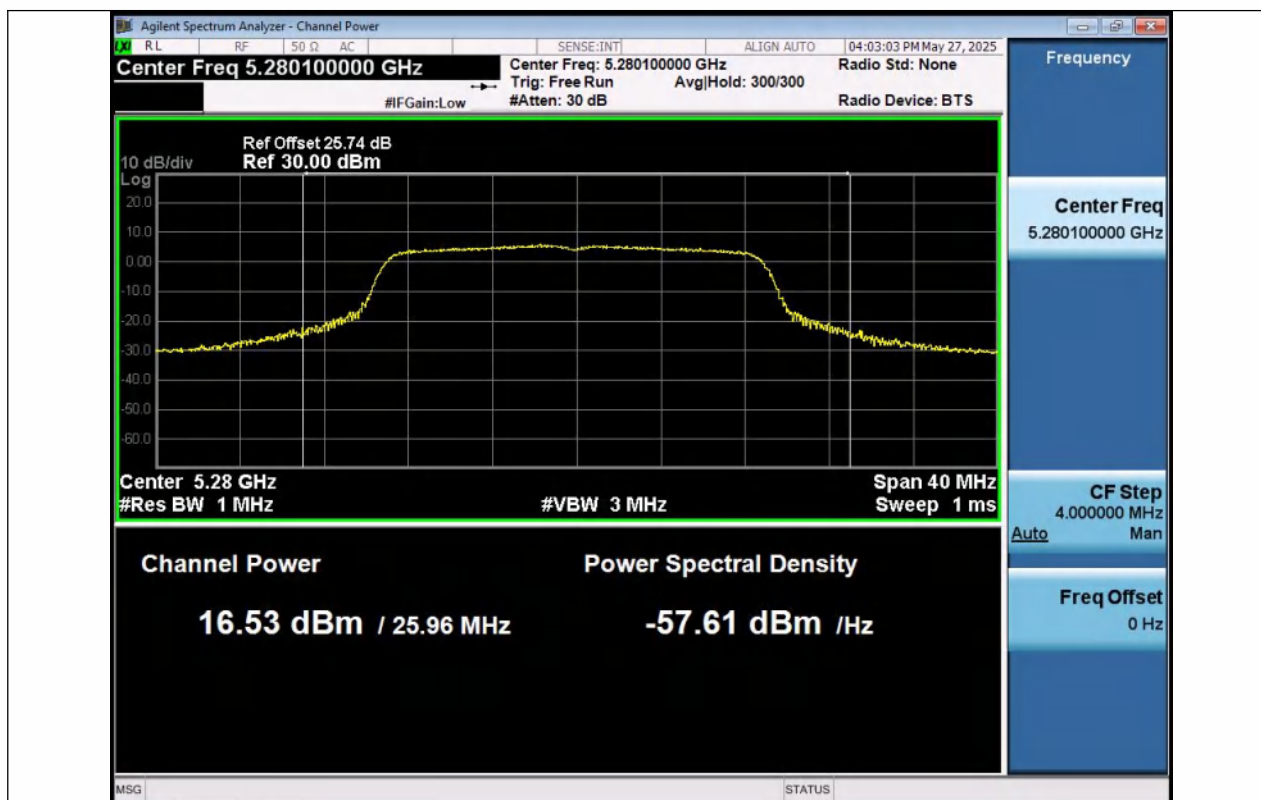
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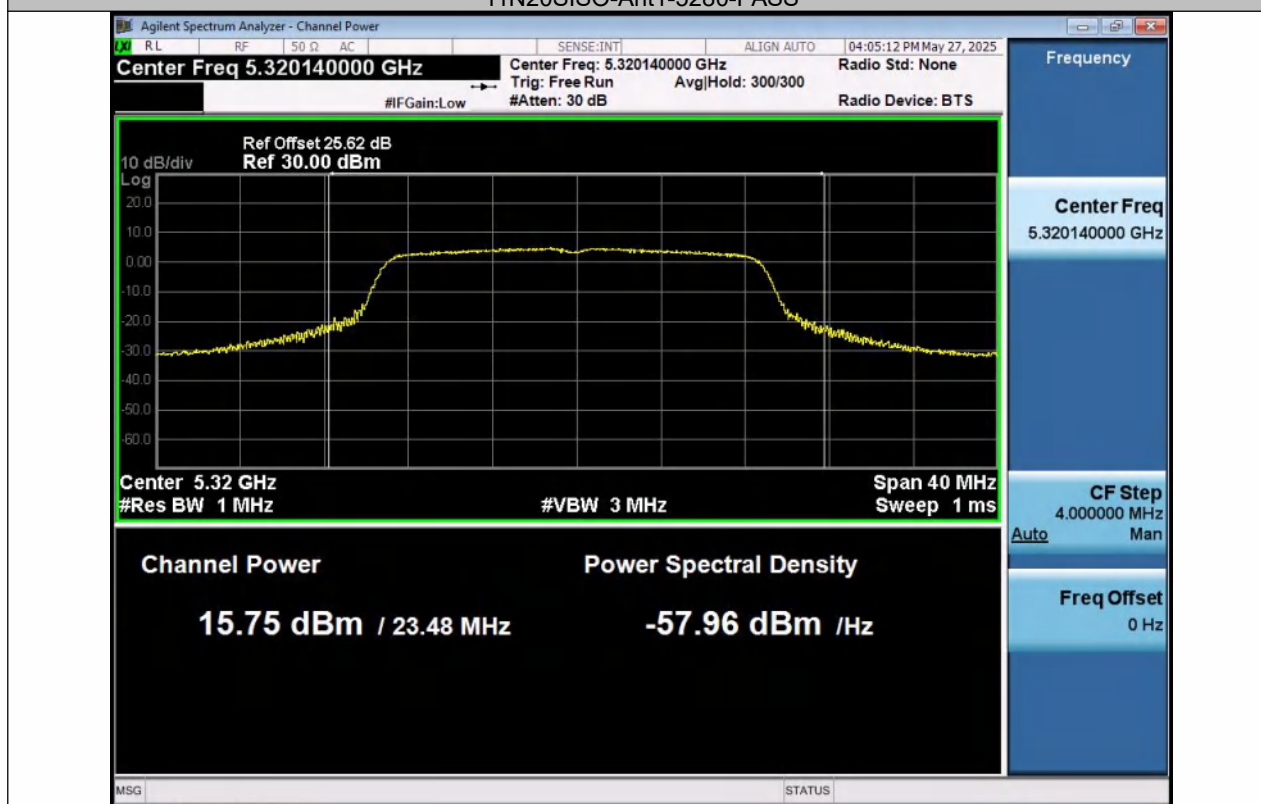
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11N20SISO-Ant1-5260-PASS



11N20SISO-Ant1-5280-PASS



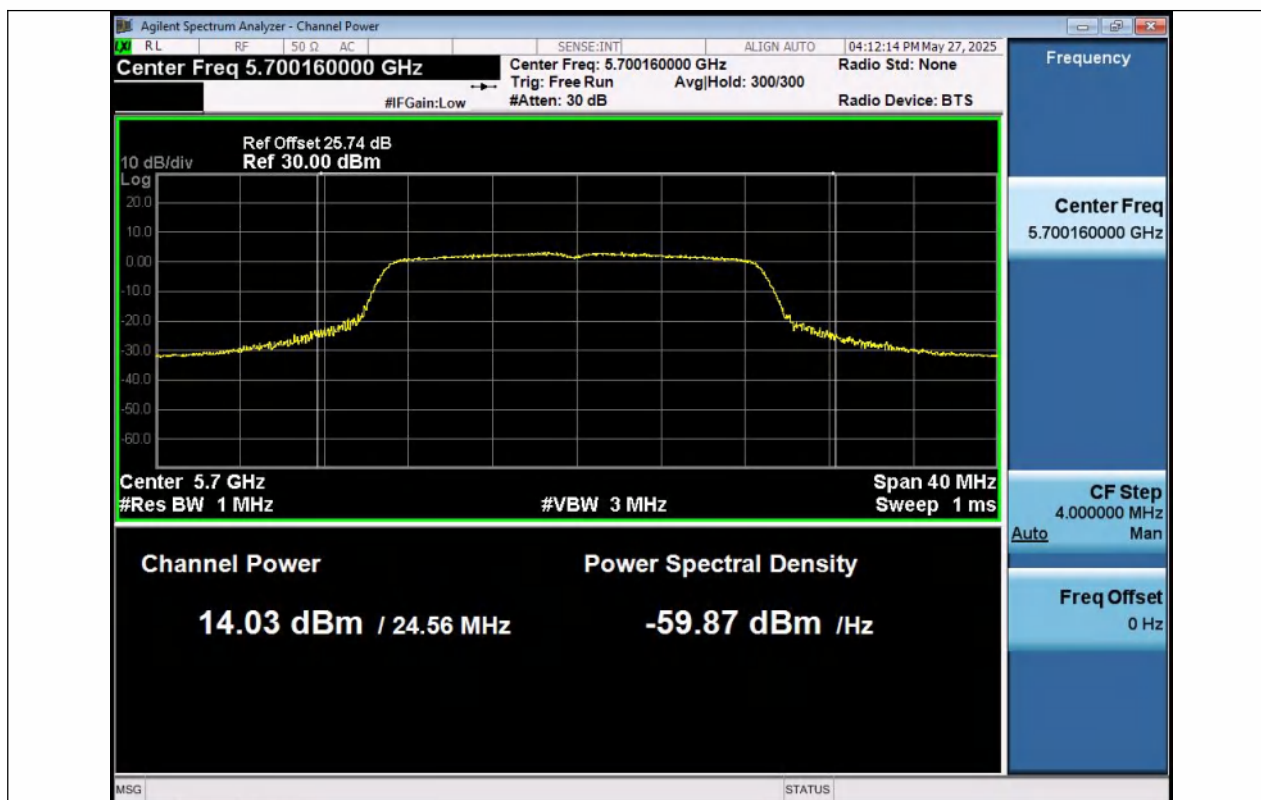
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11N20SISO-Ant1-5500-PASS



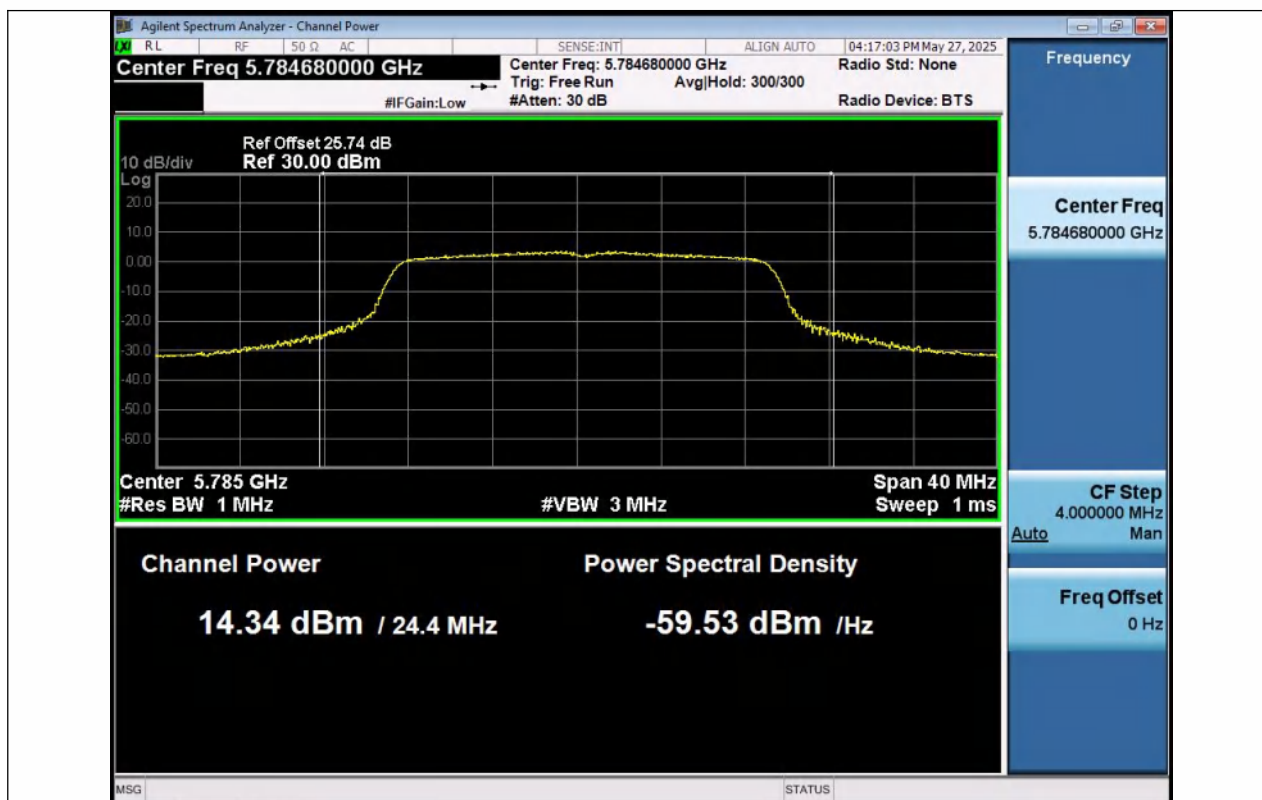
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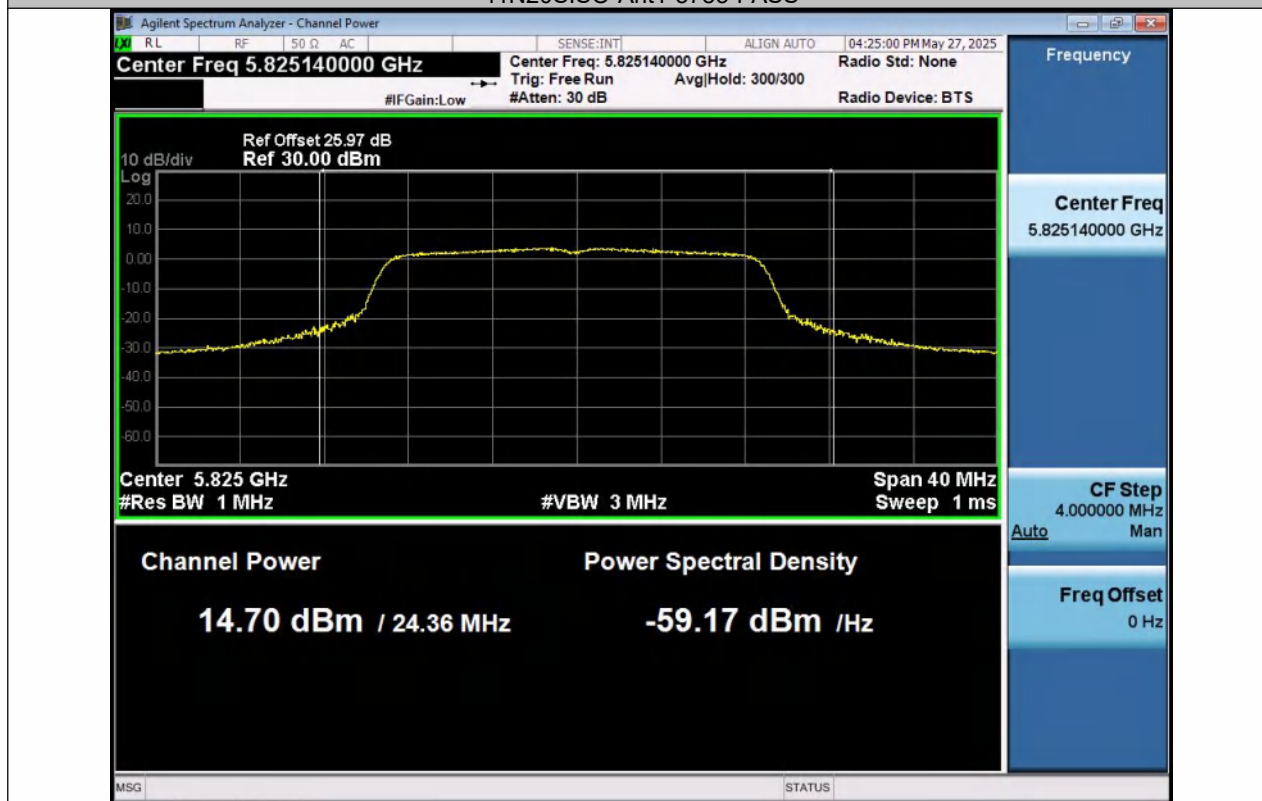
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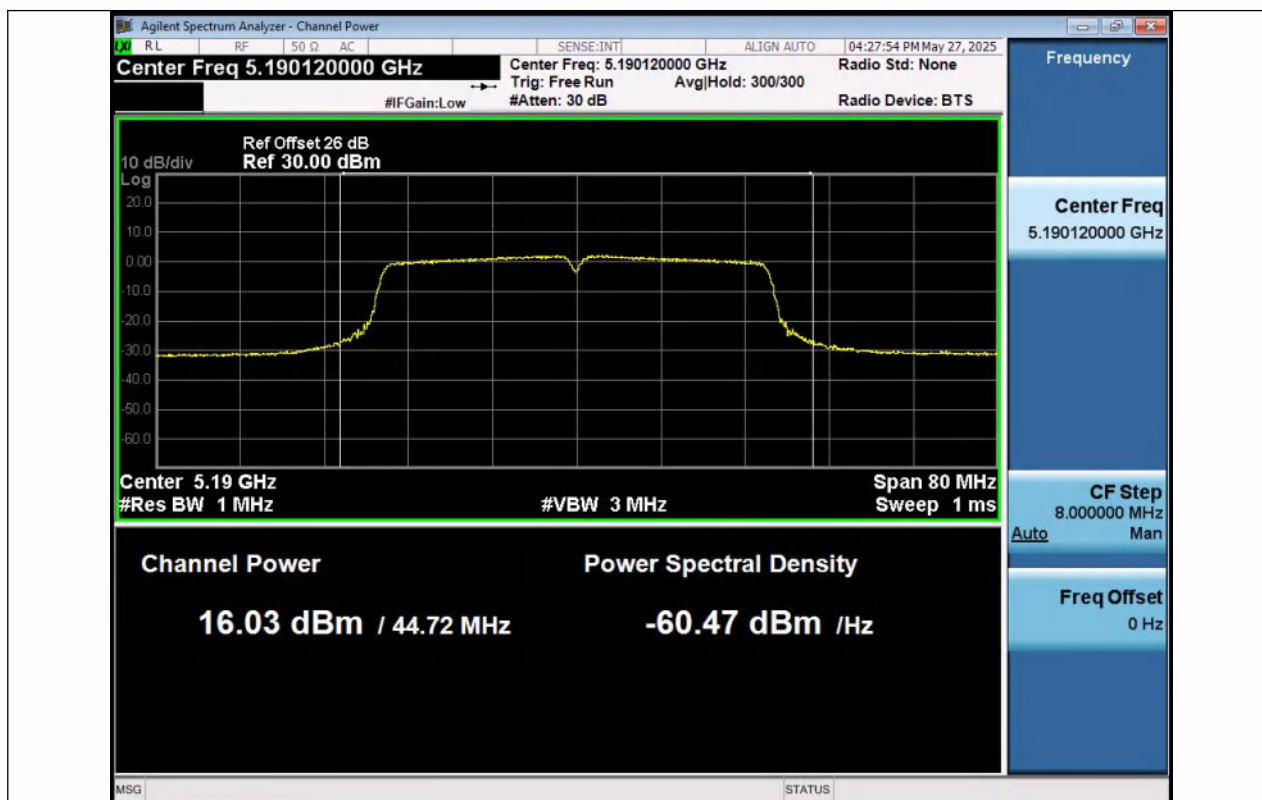
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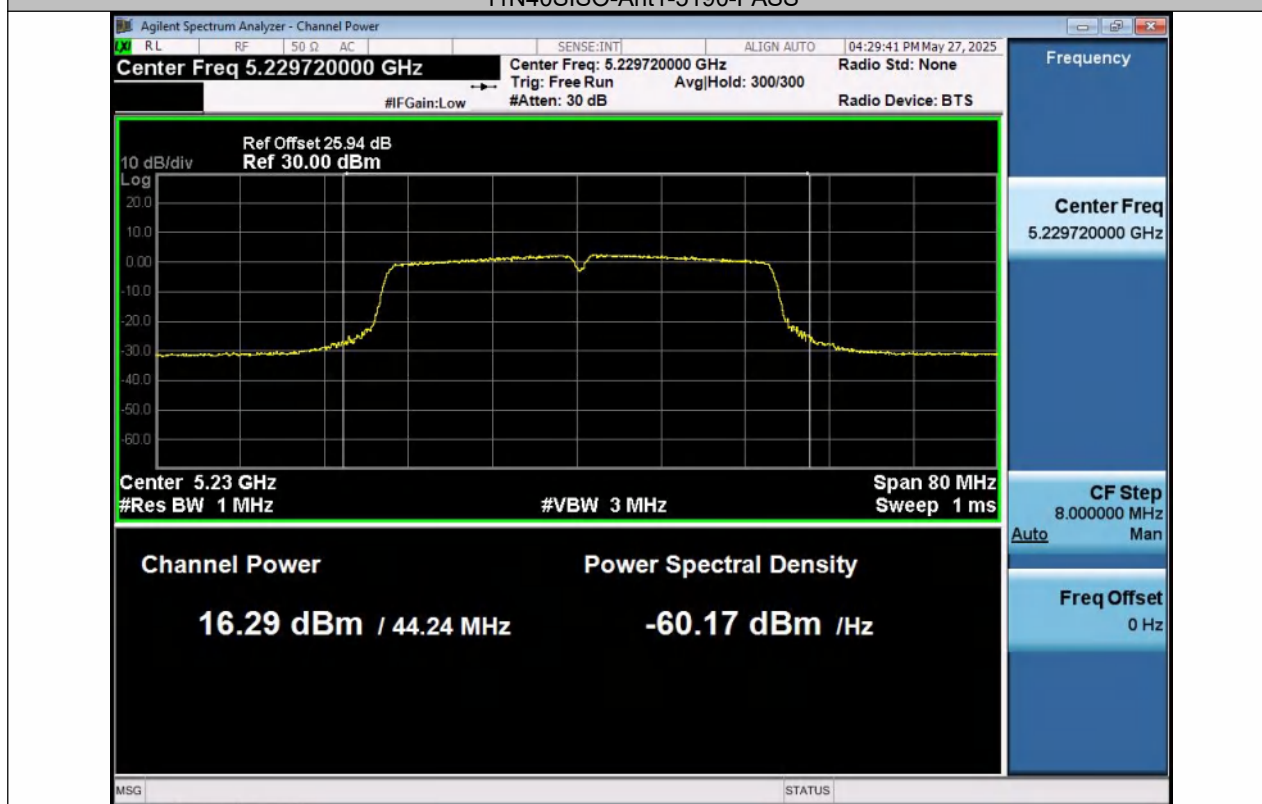
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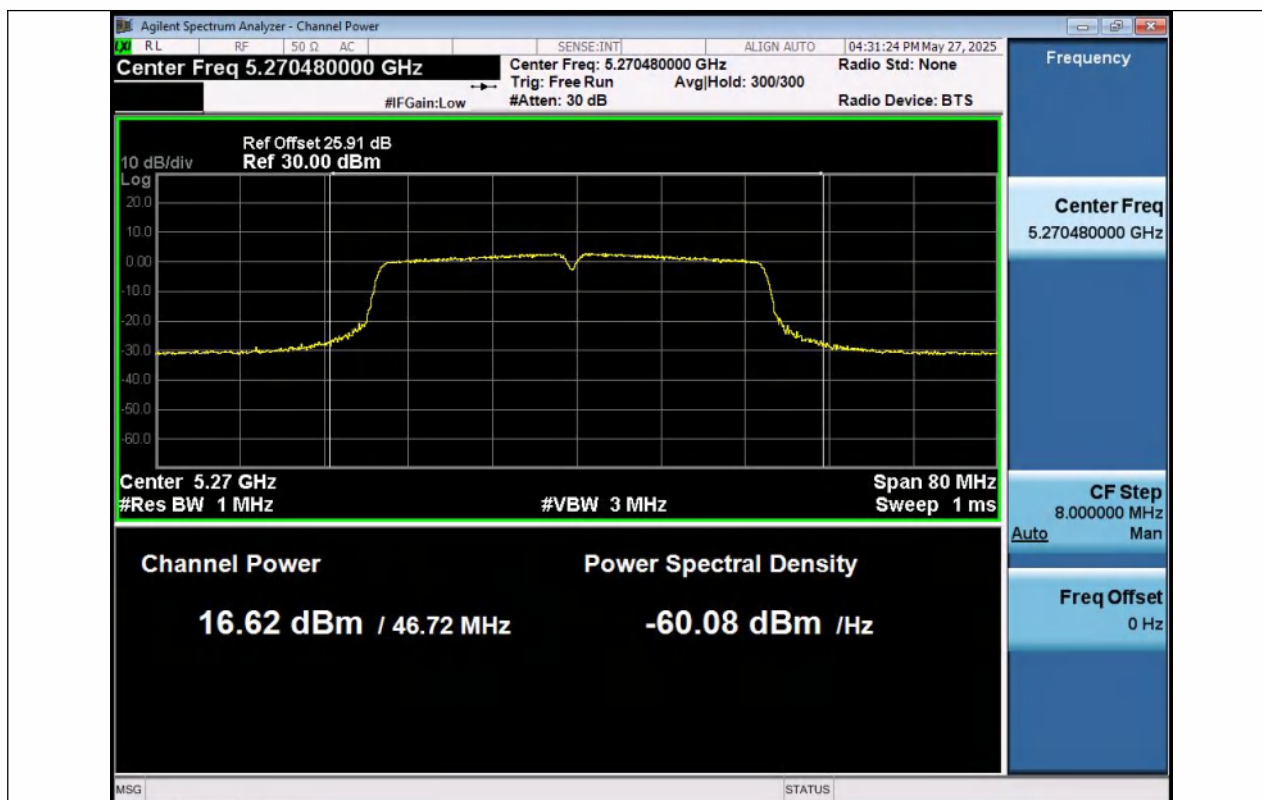
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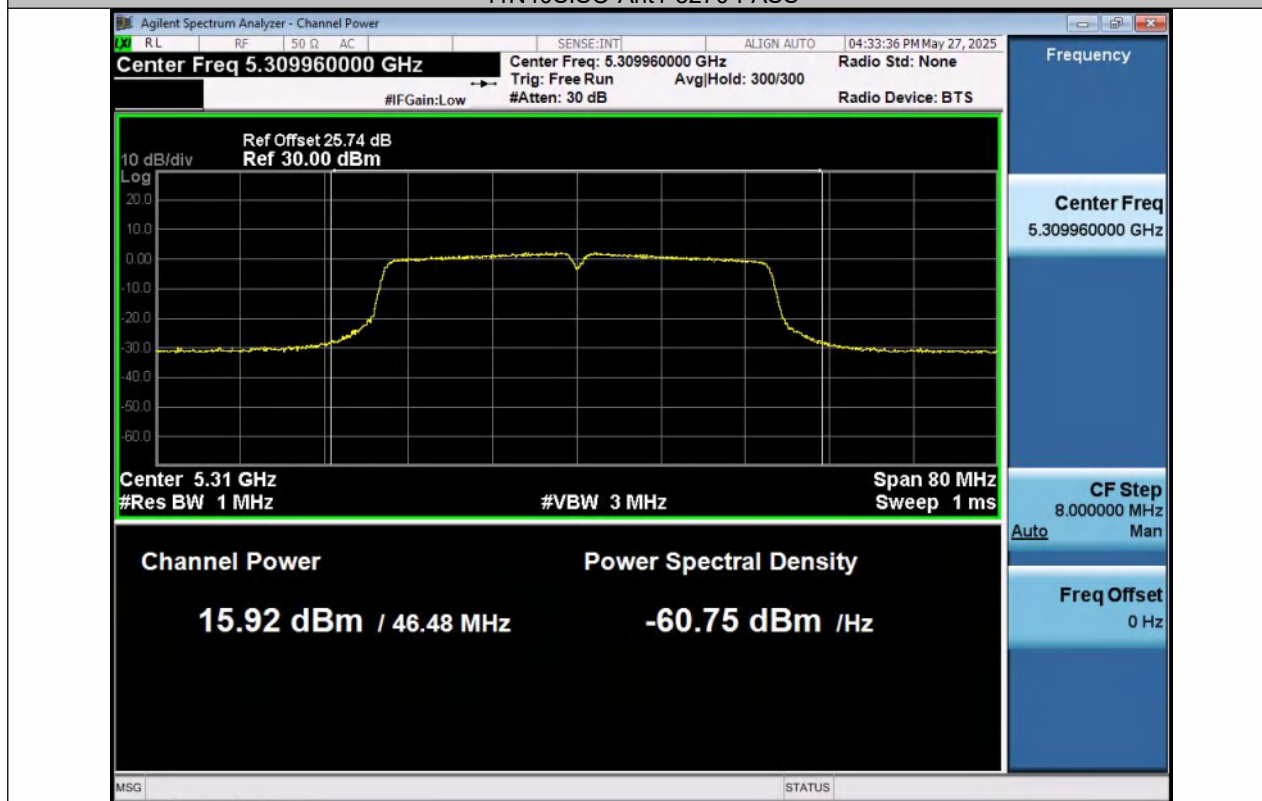
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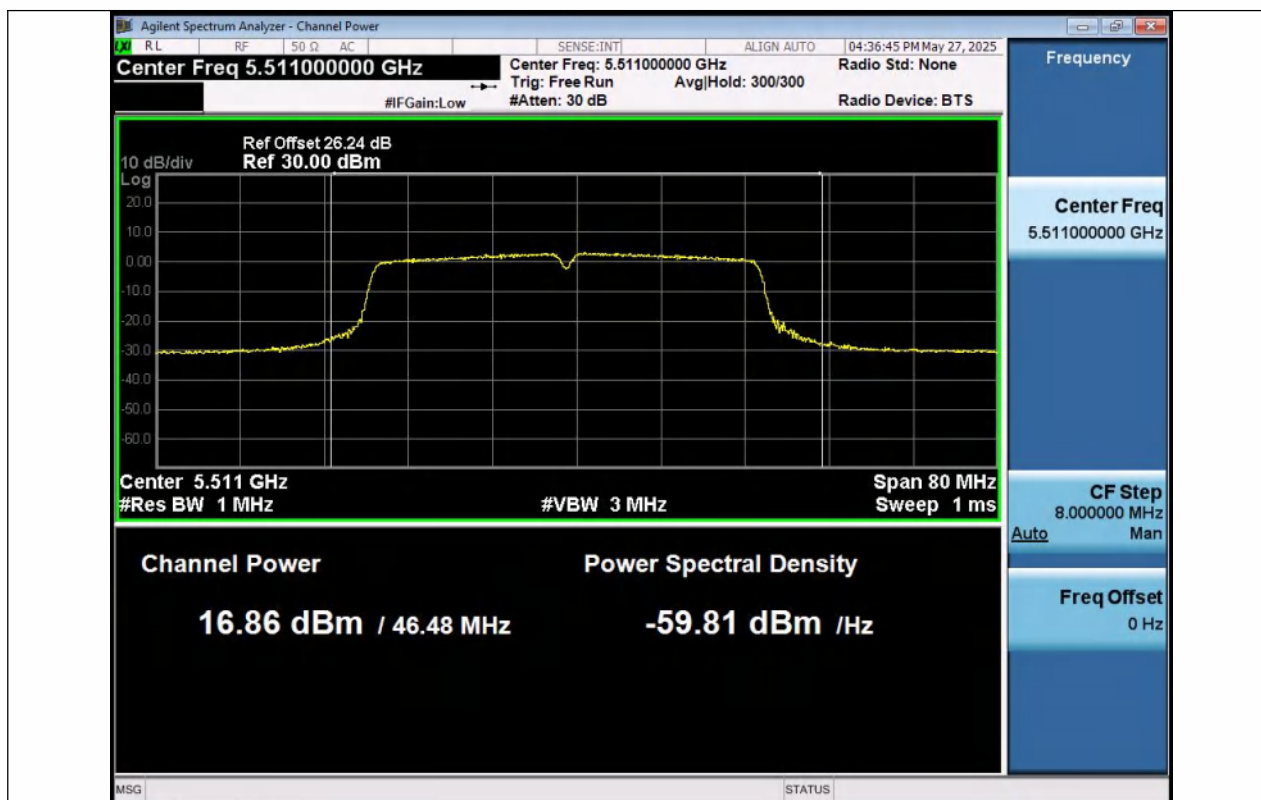
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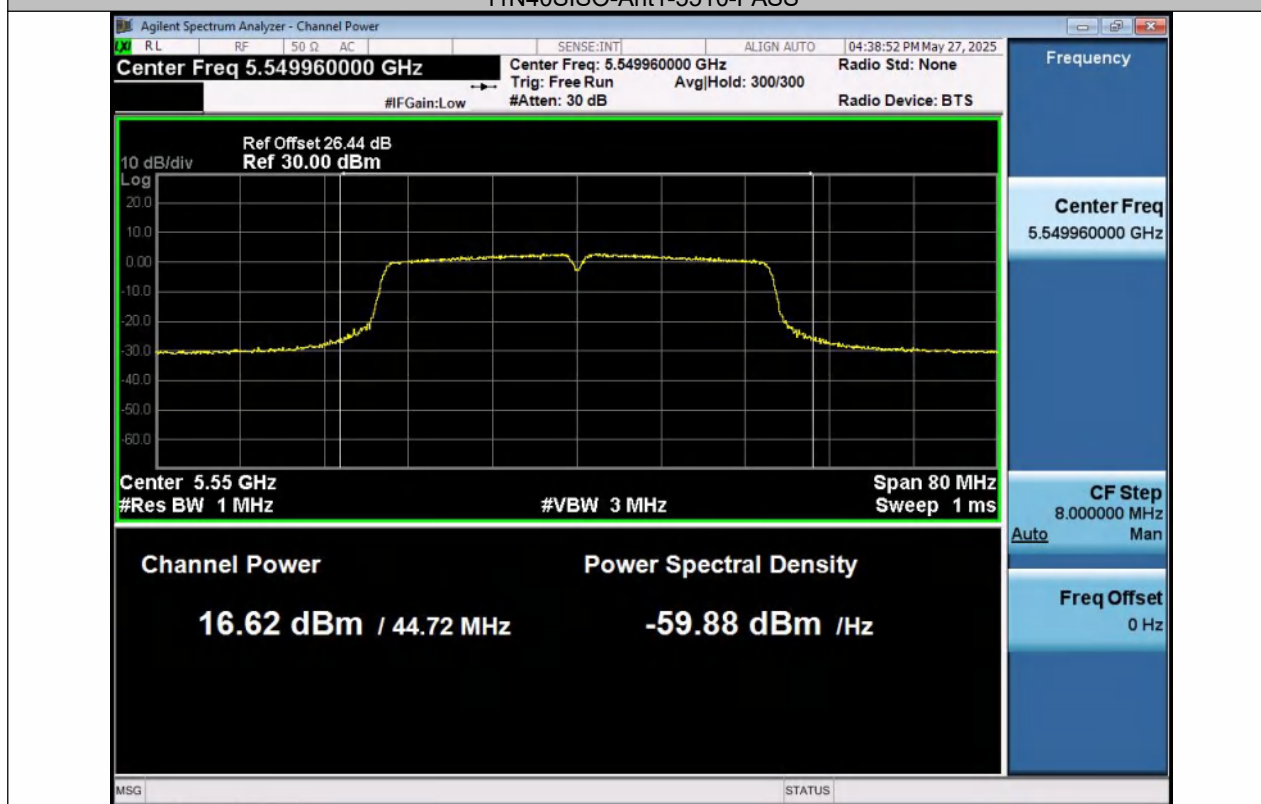
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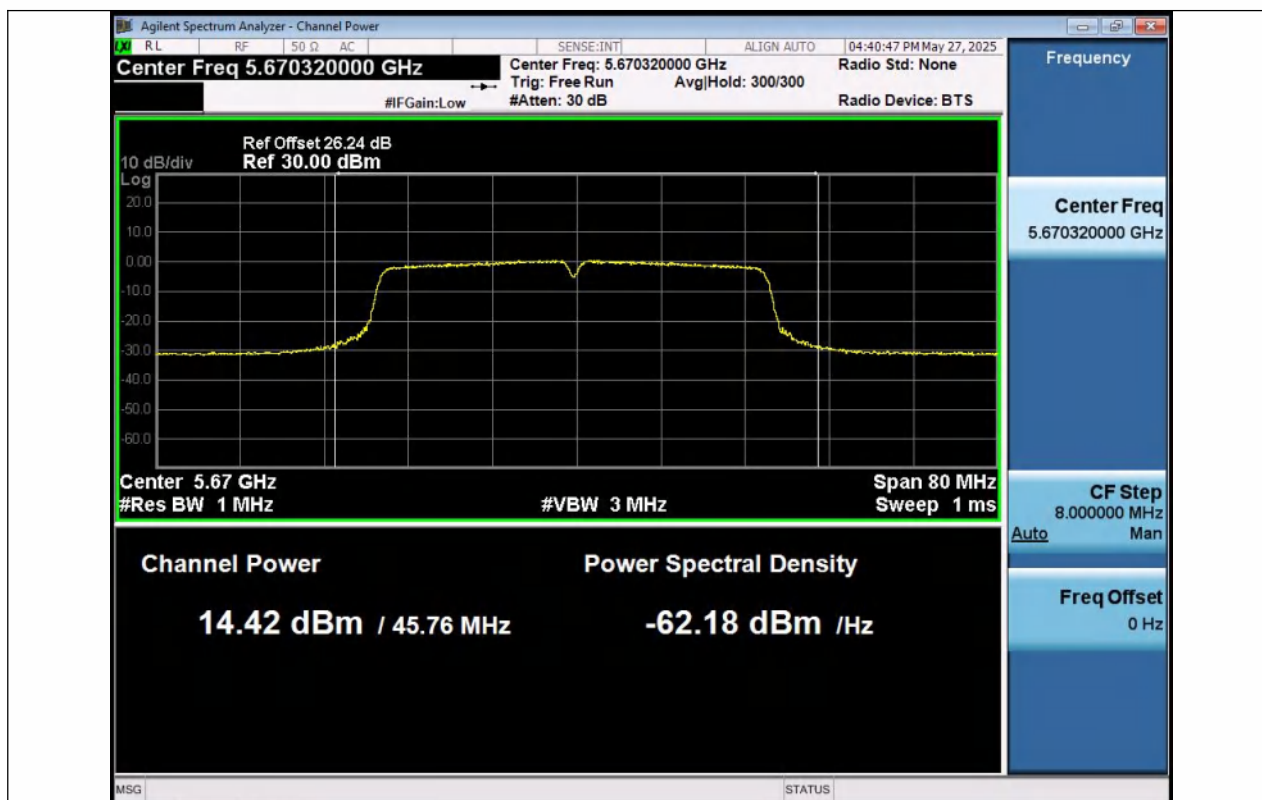
11N40SISO-Ant1-5310-PASS



11N40SISO-Ant1-5510-PASS



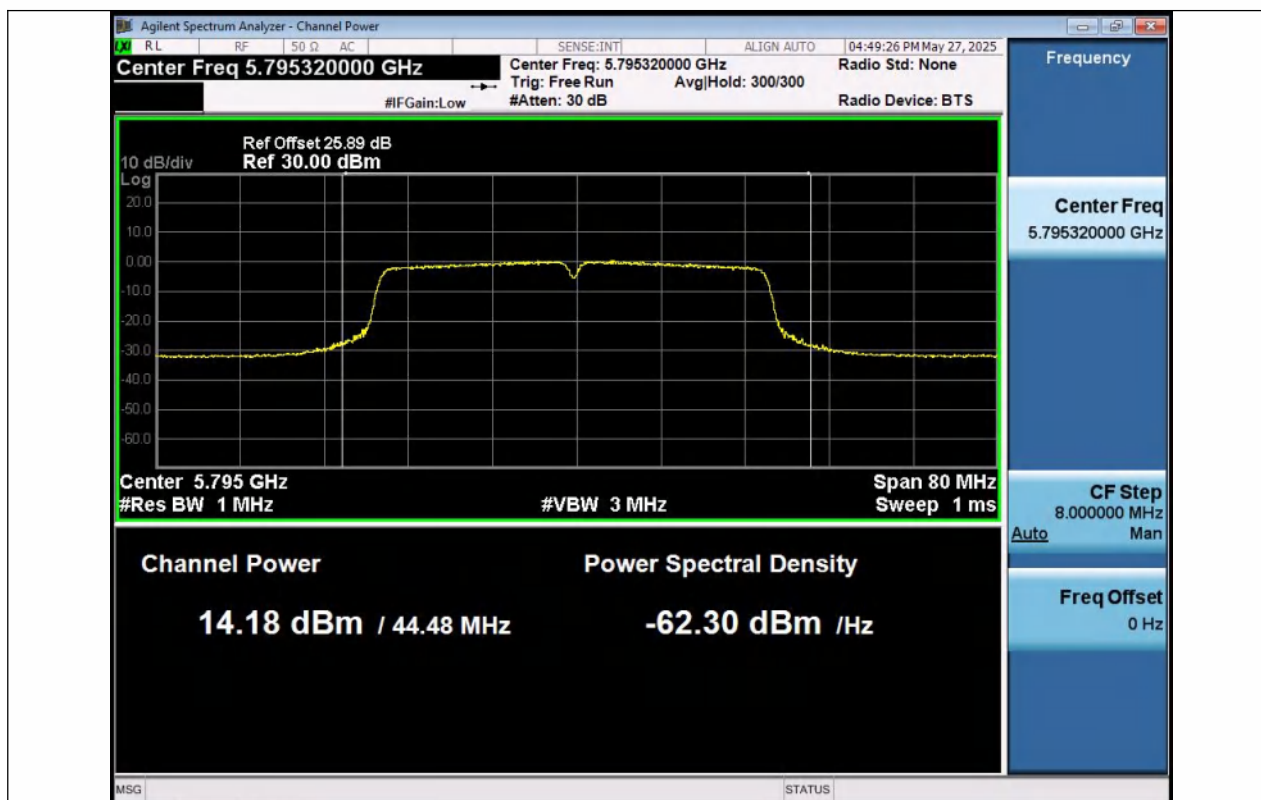
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11N40SISO-Ant1-5670-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



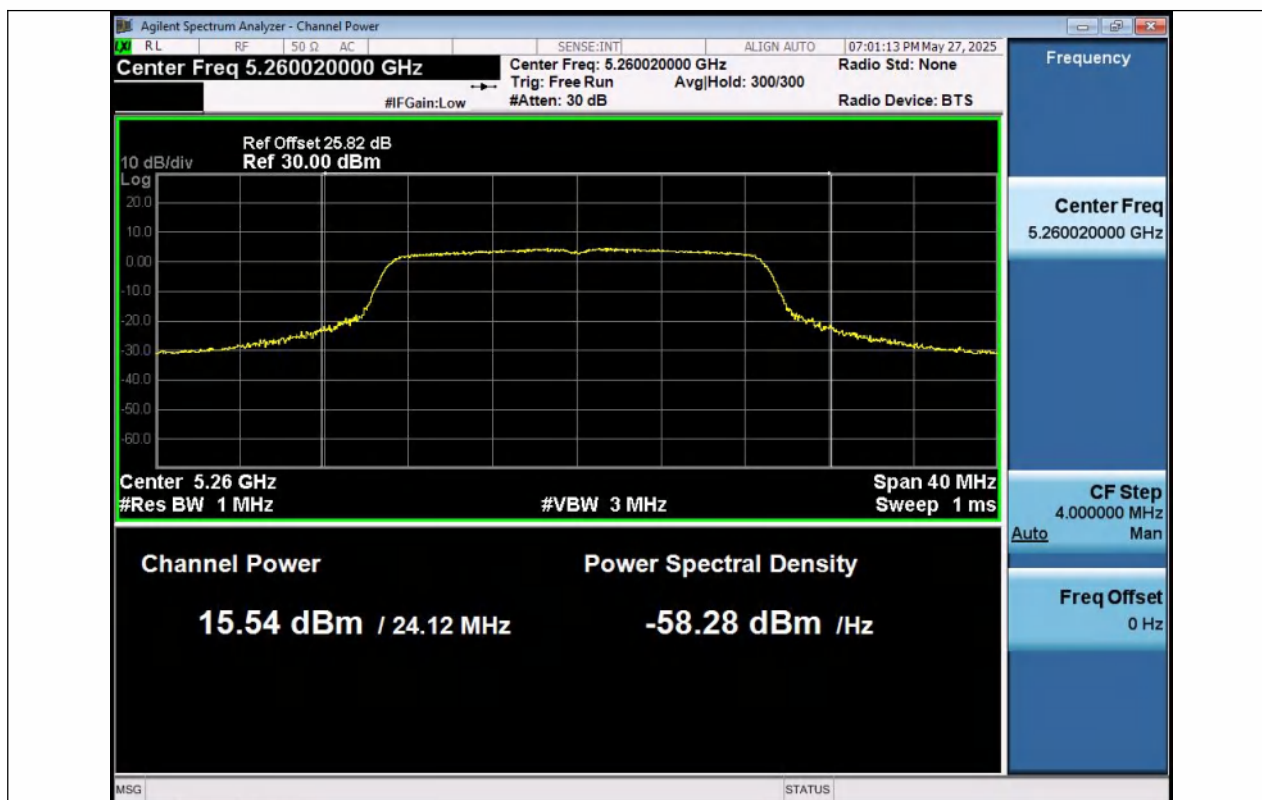
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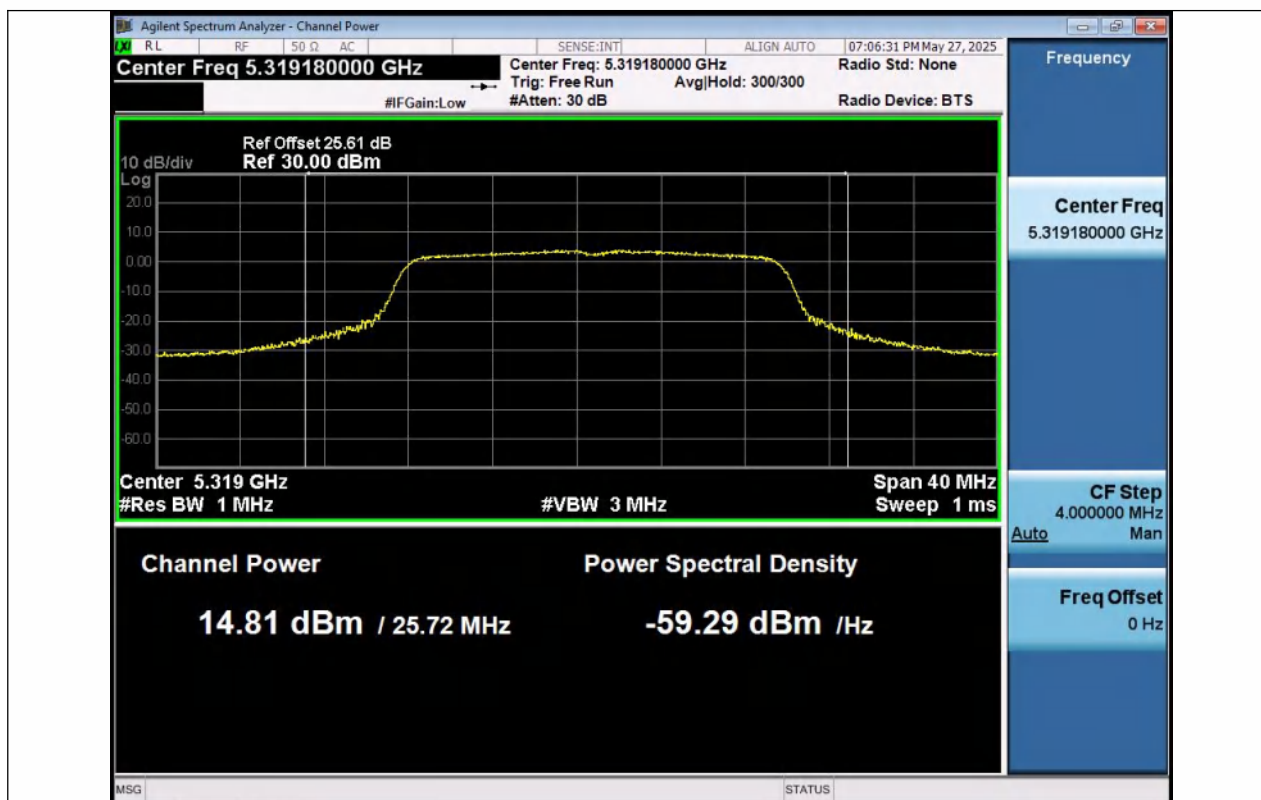
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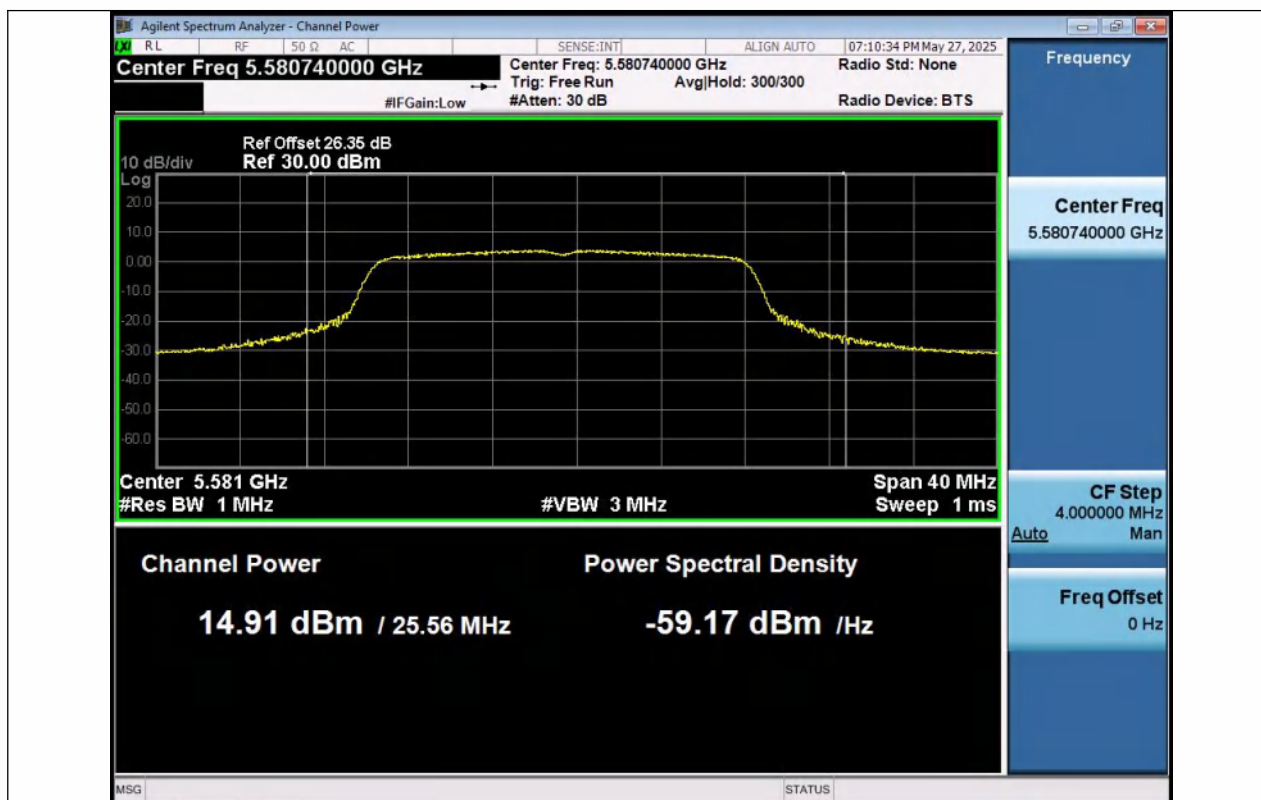
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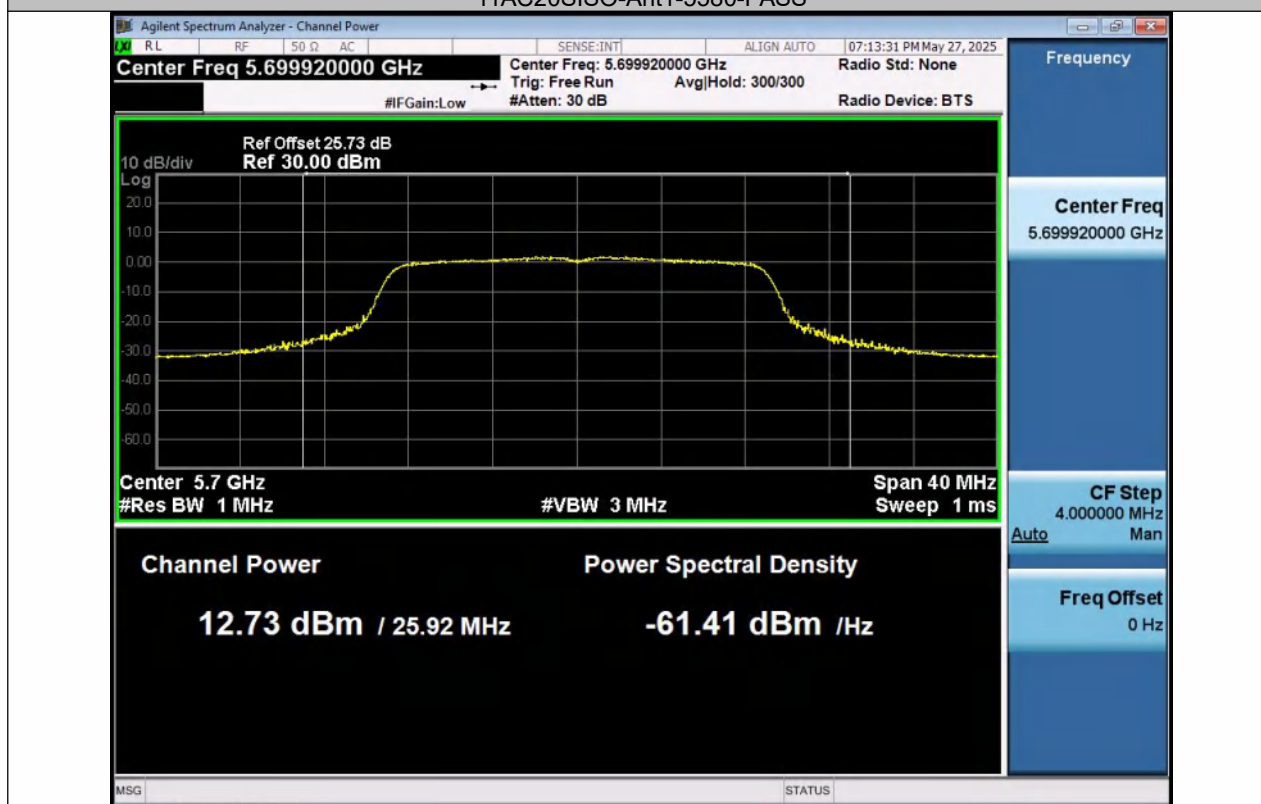
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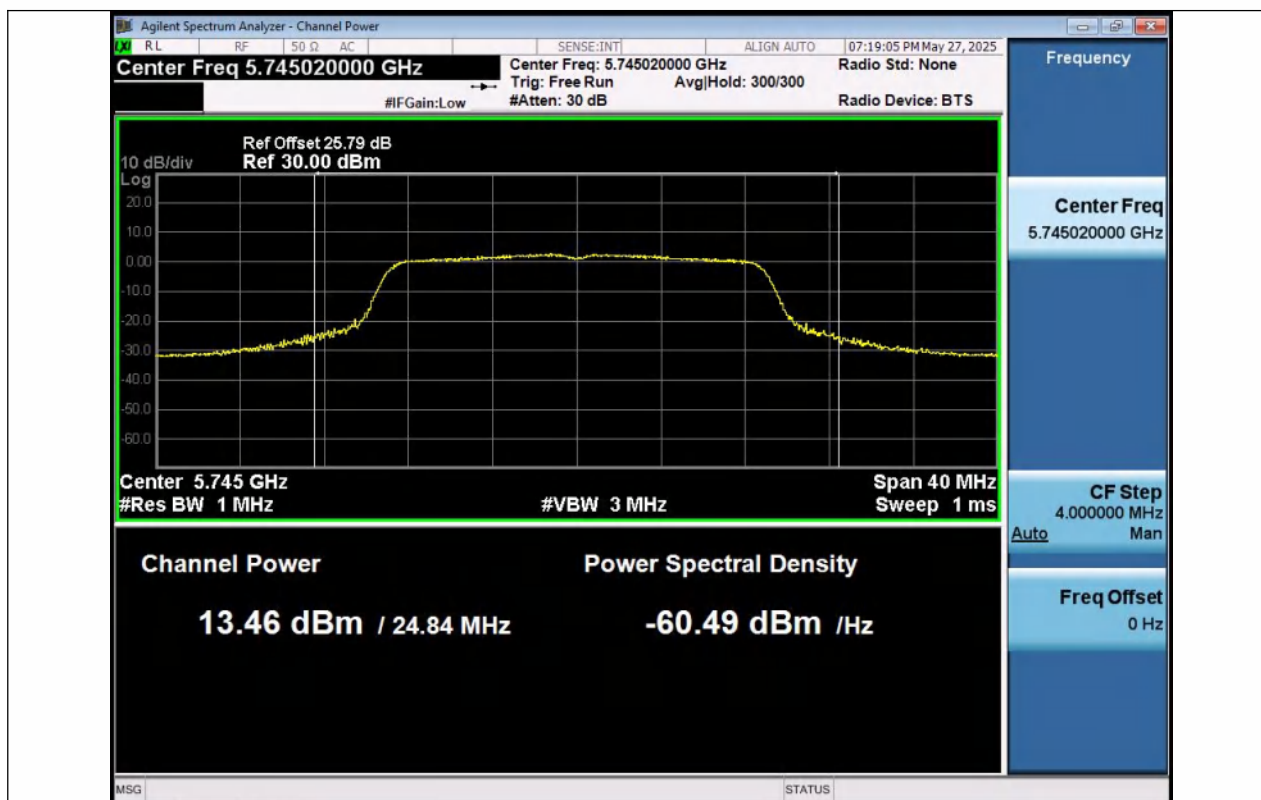
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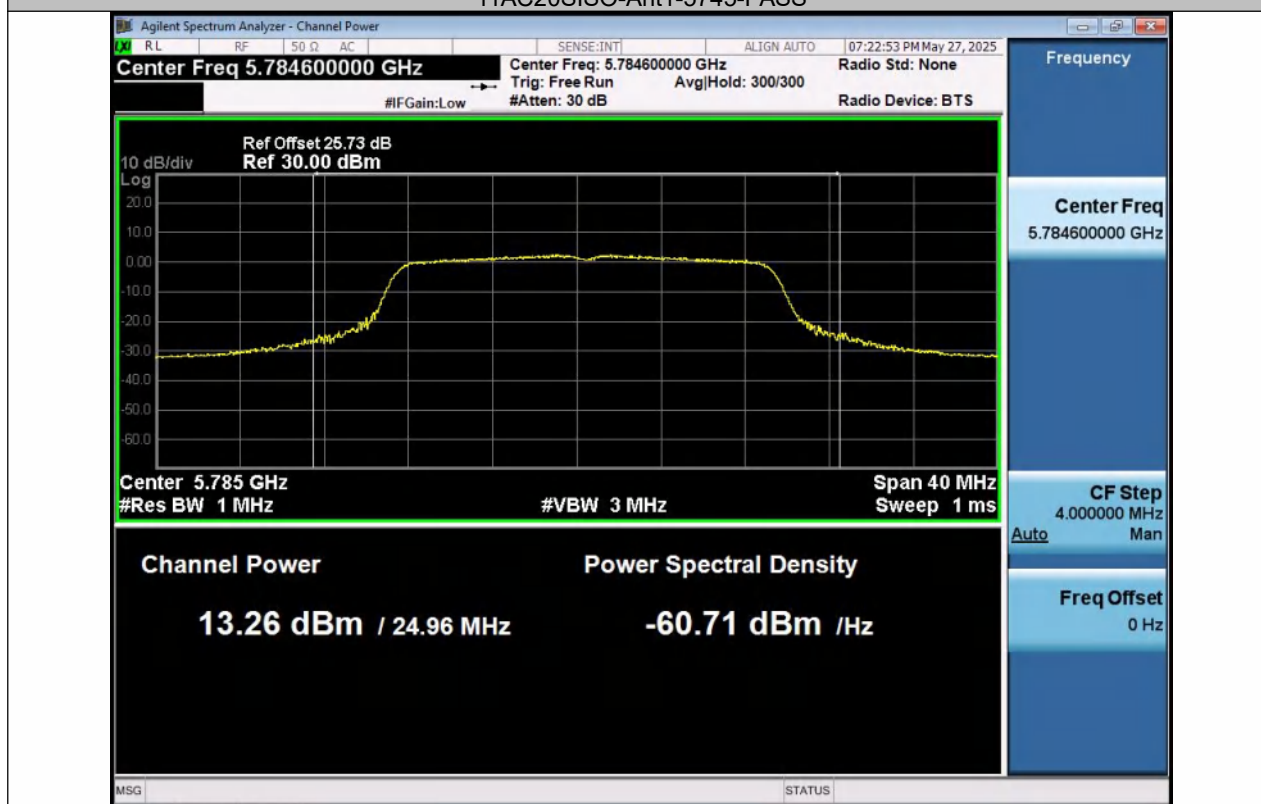
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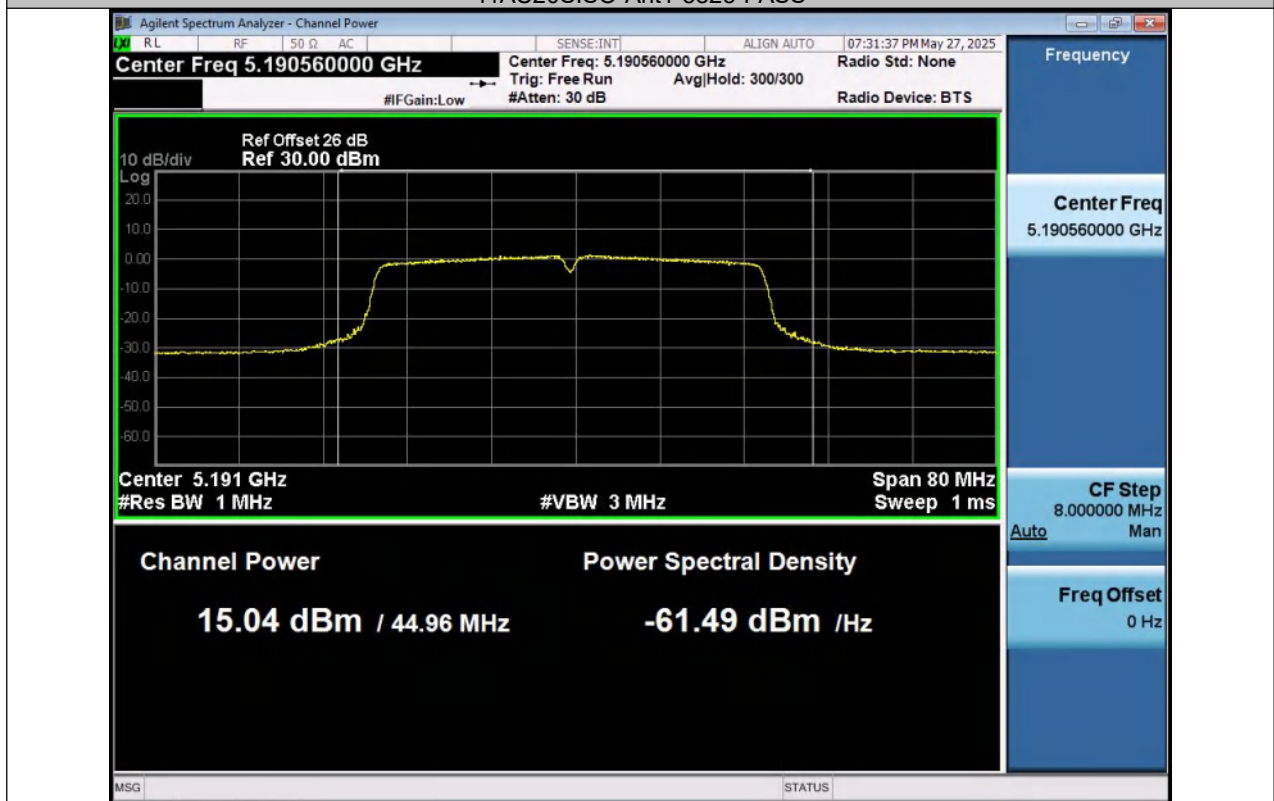
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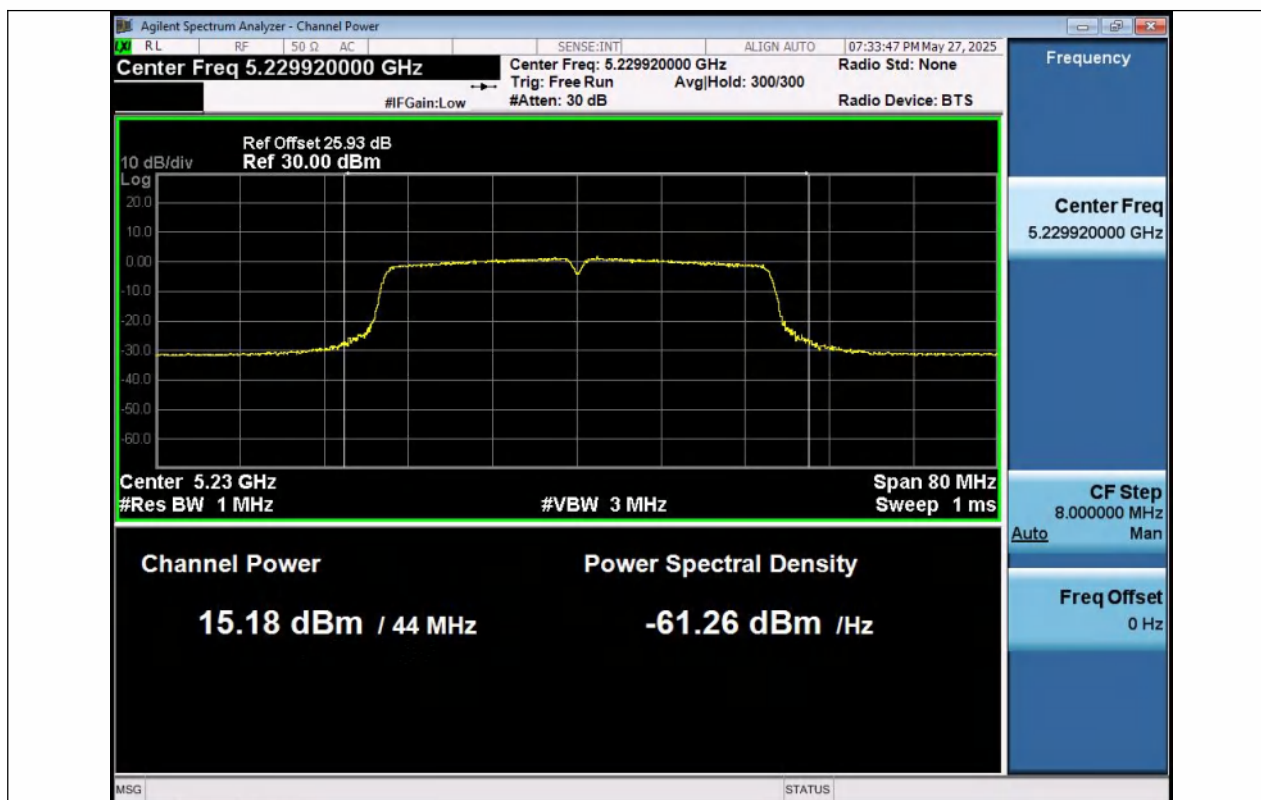
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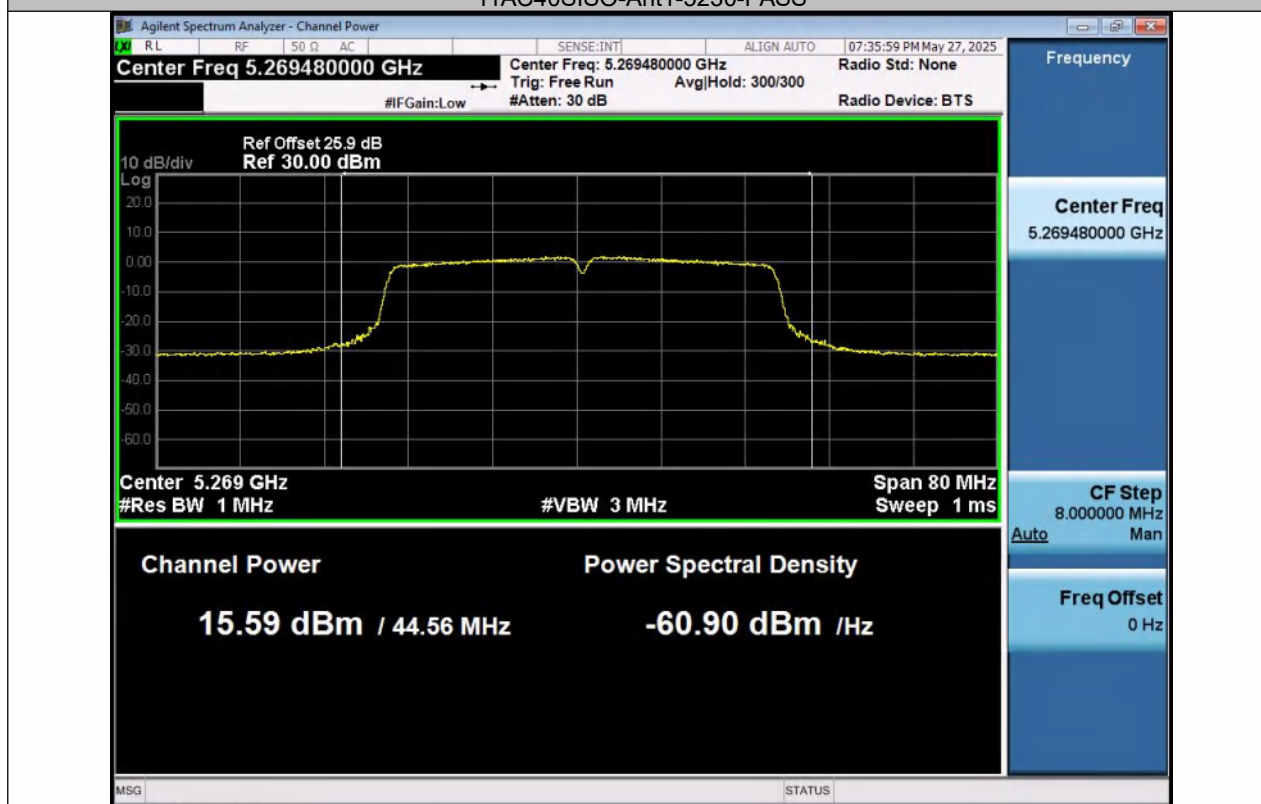
11AC20SISO-Ant1-5825-PASS



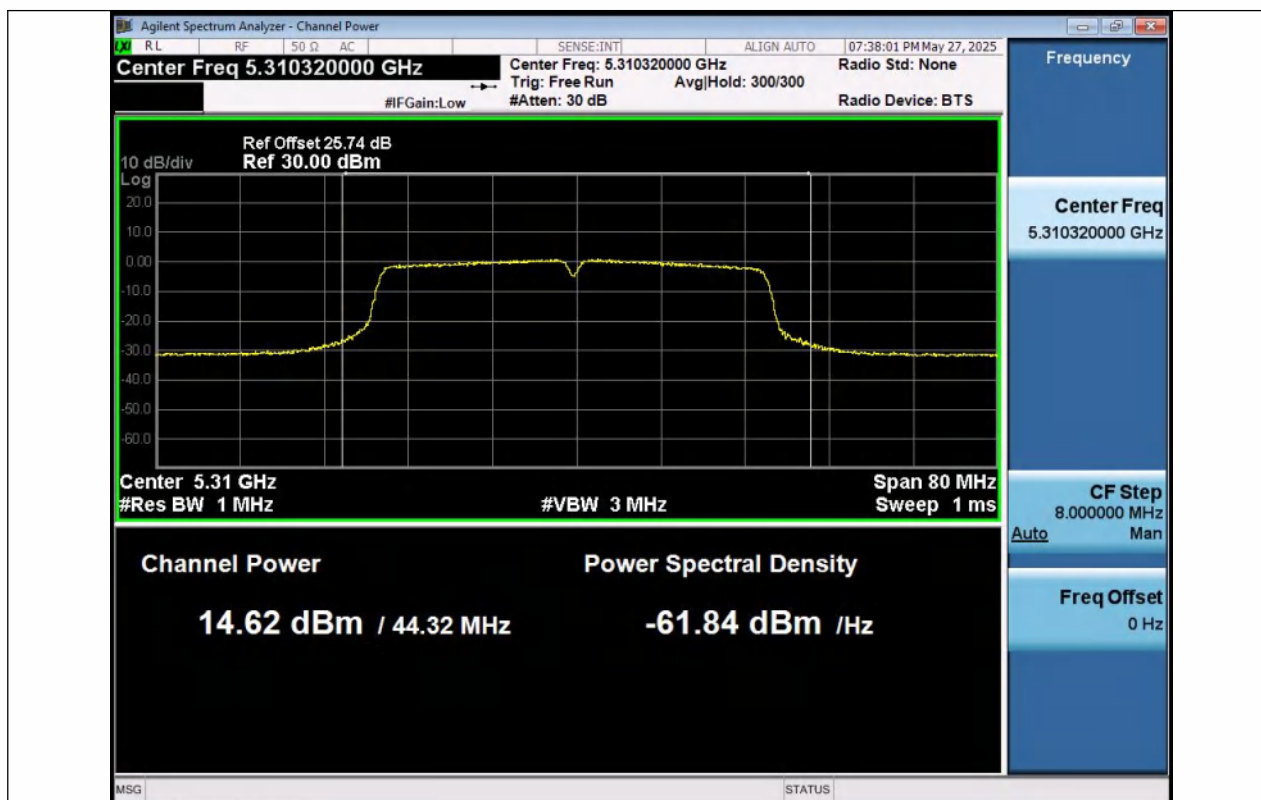
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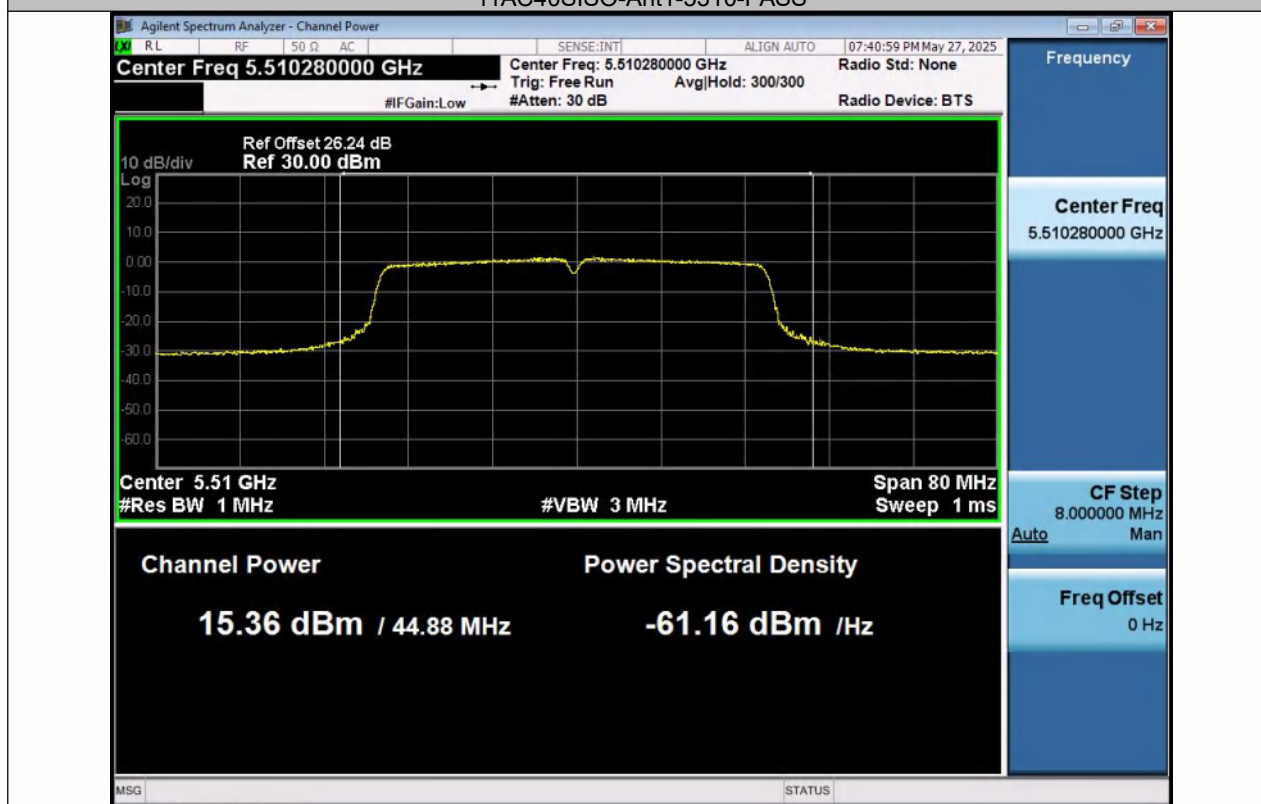
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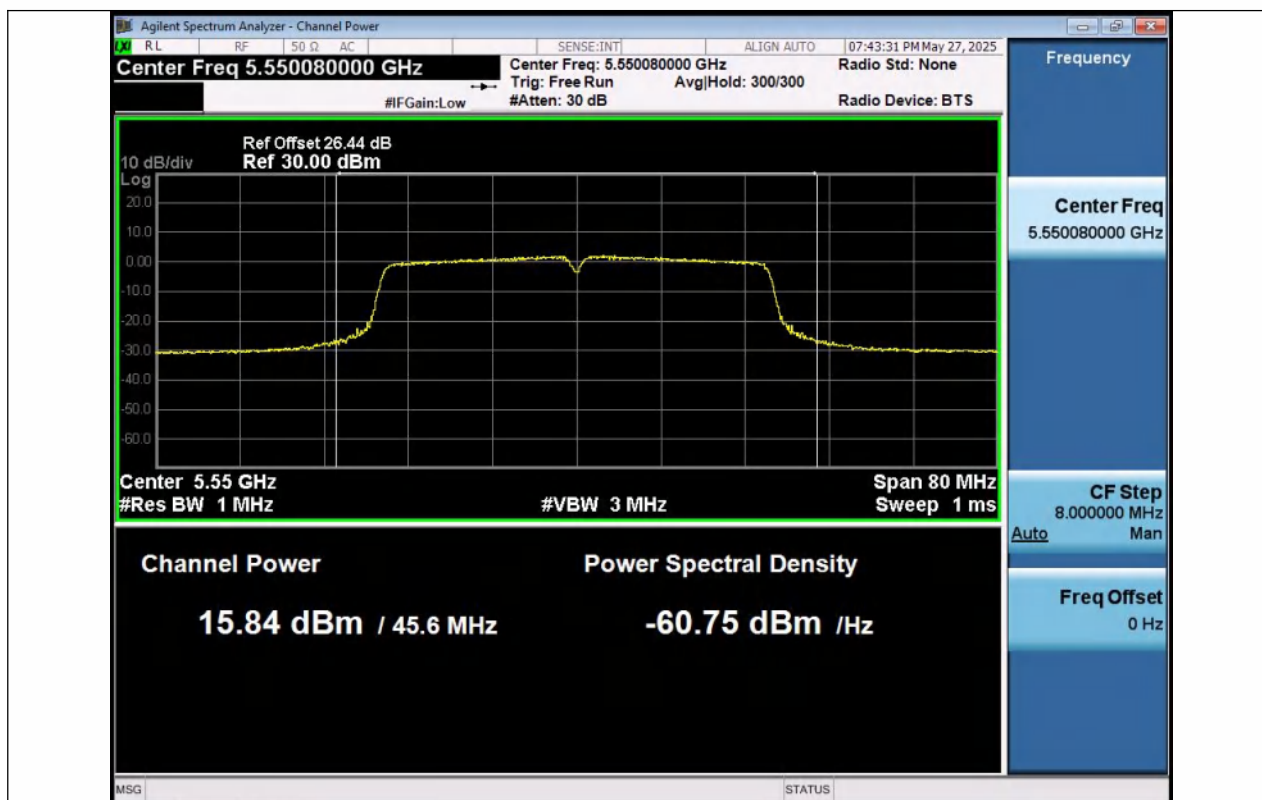
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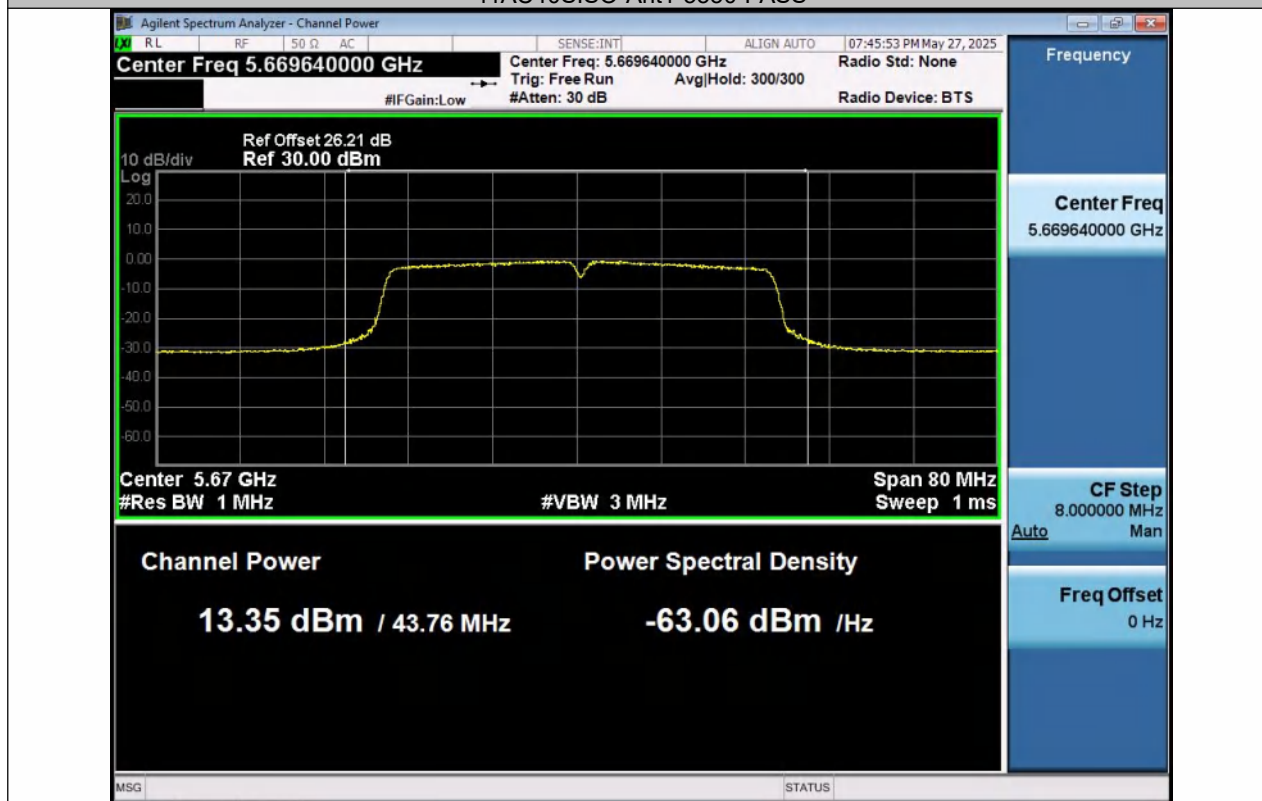
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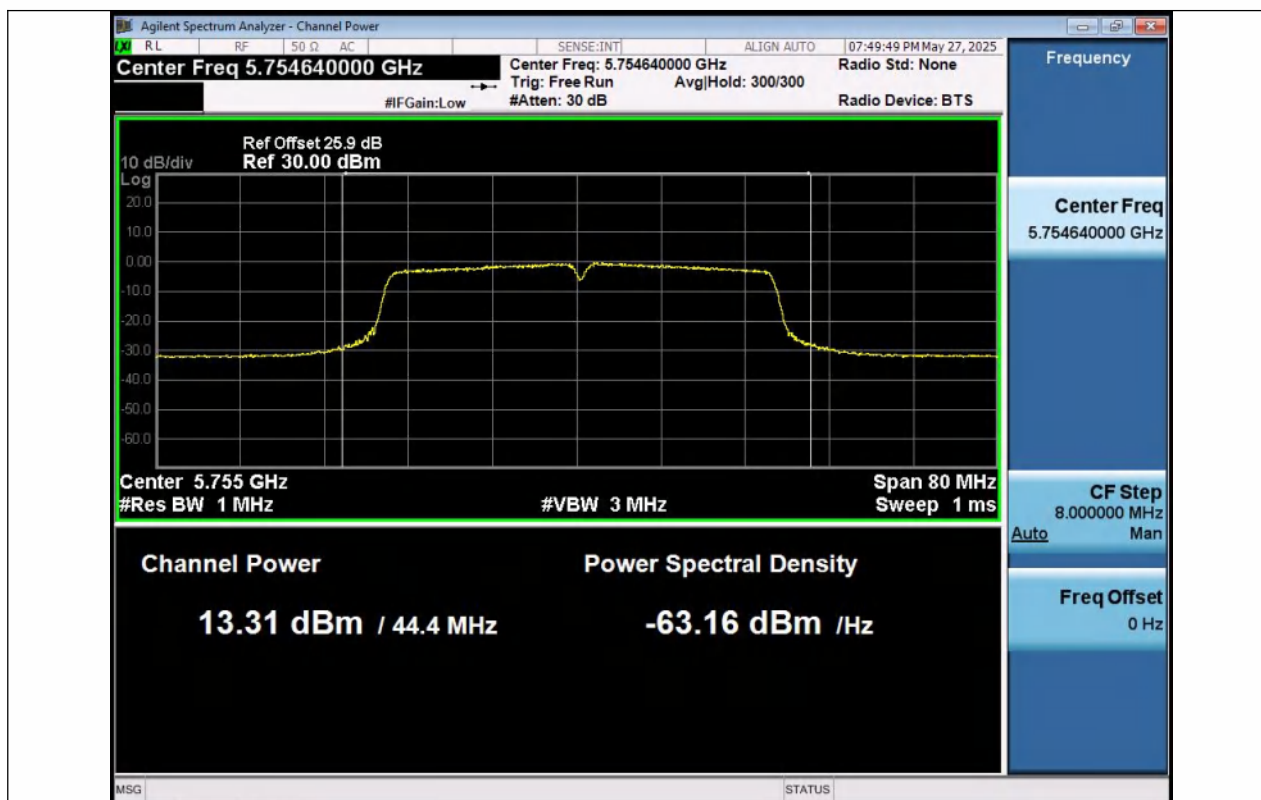
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11AC40SISO-Ant1-5550-PASS



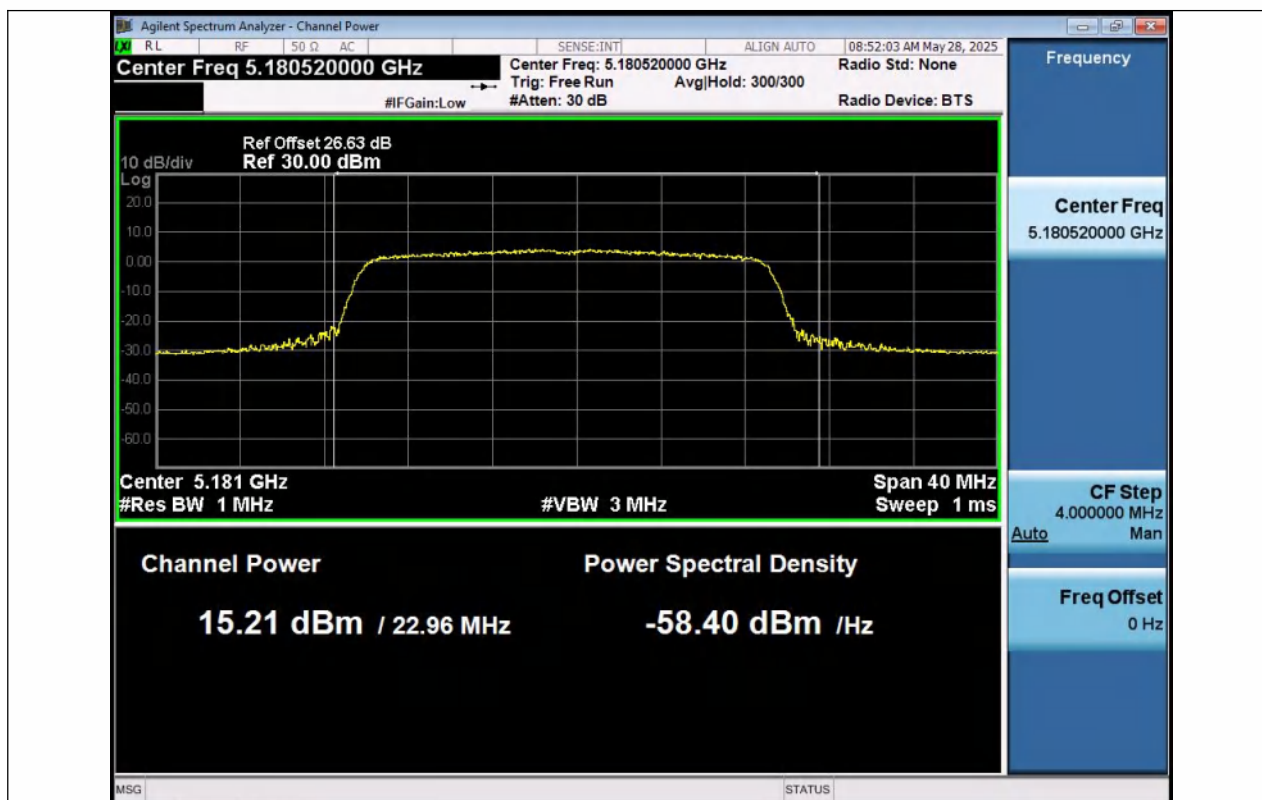
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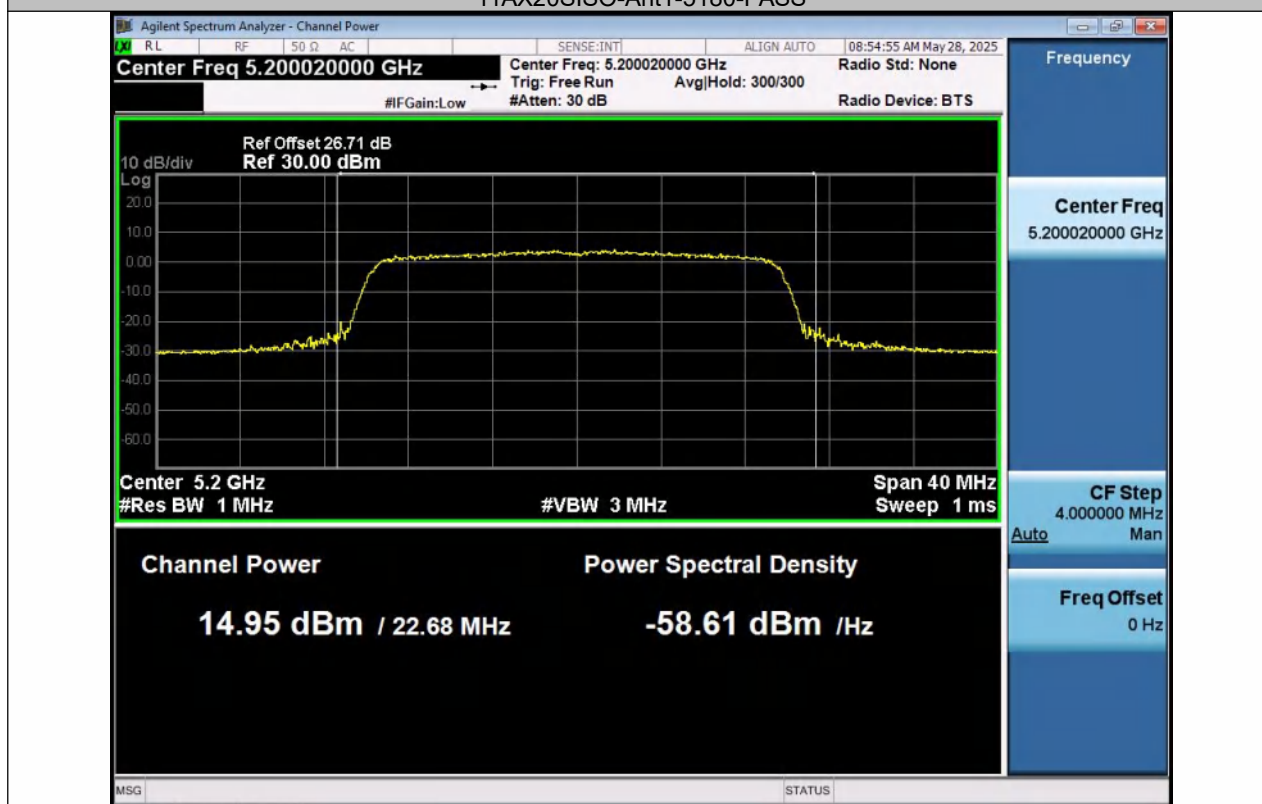
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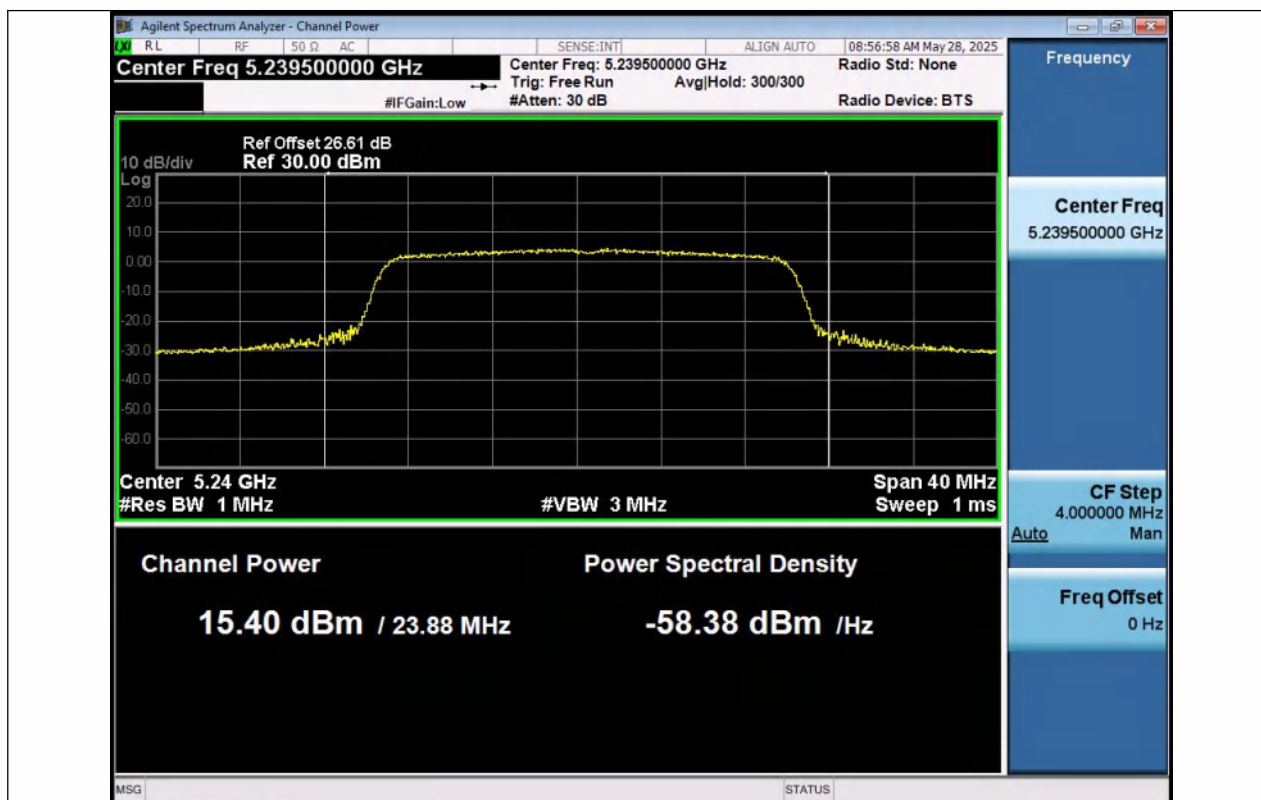
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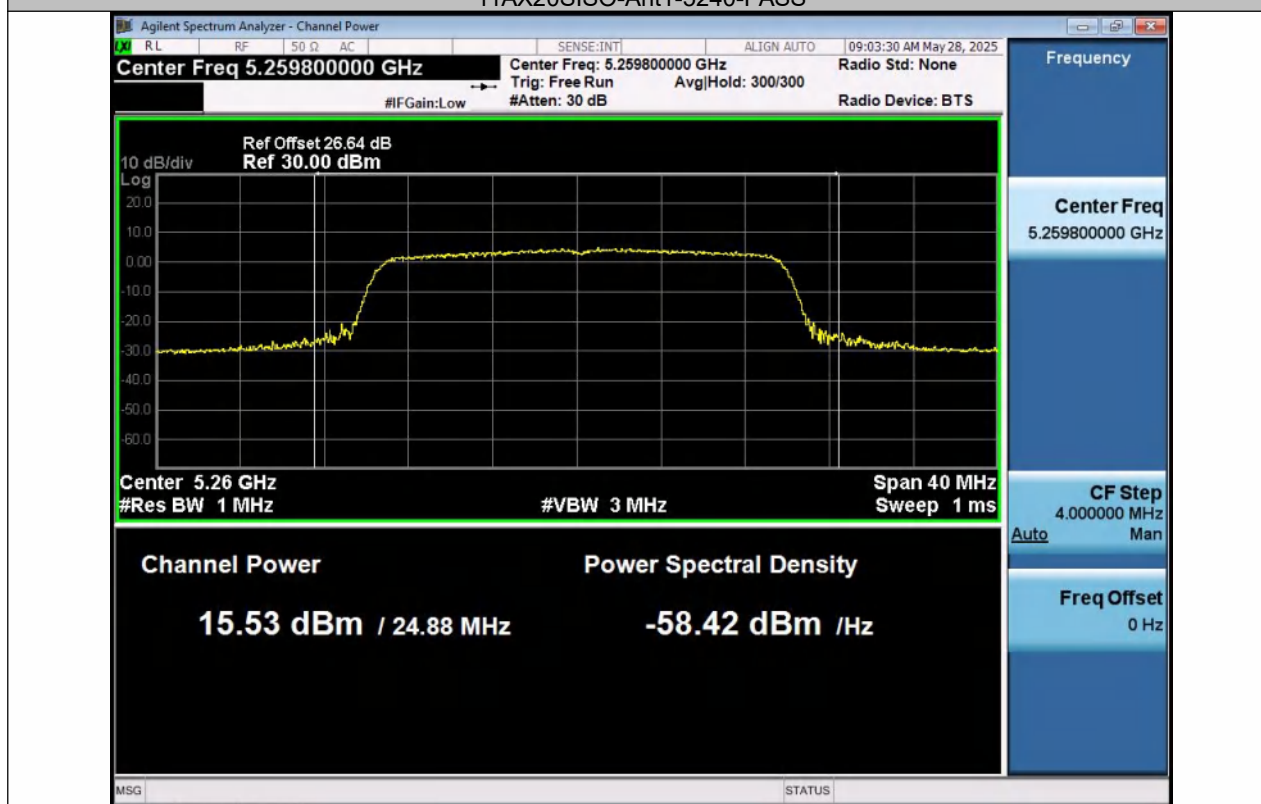
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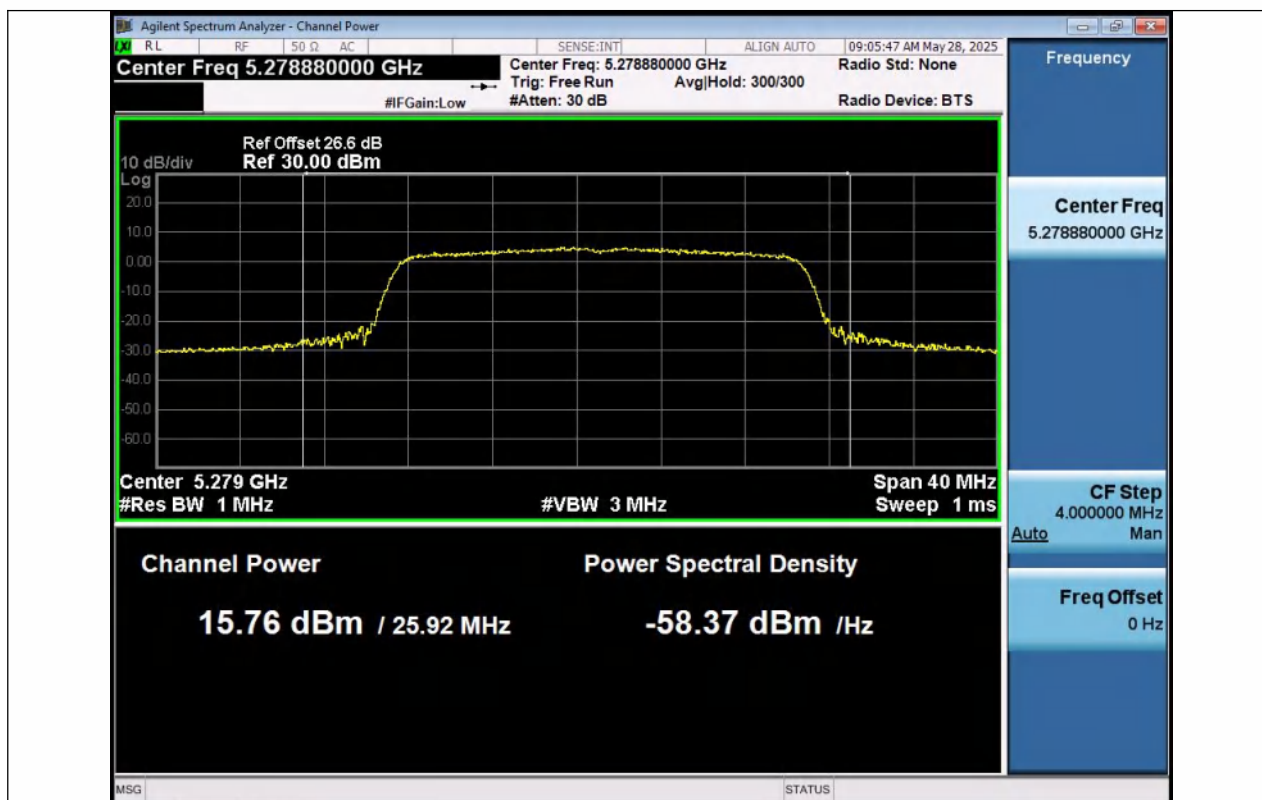
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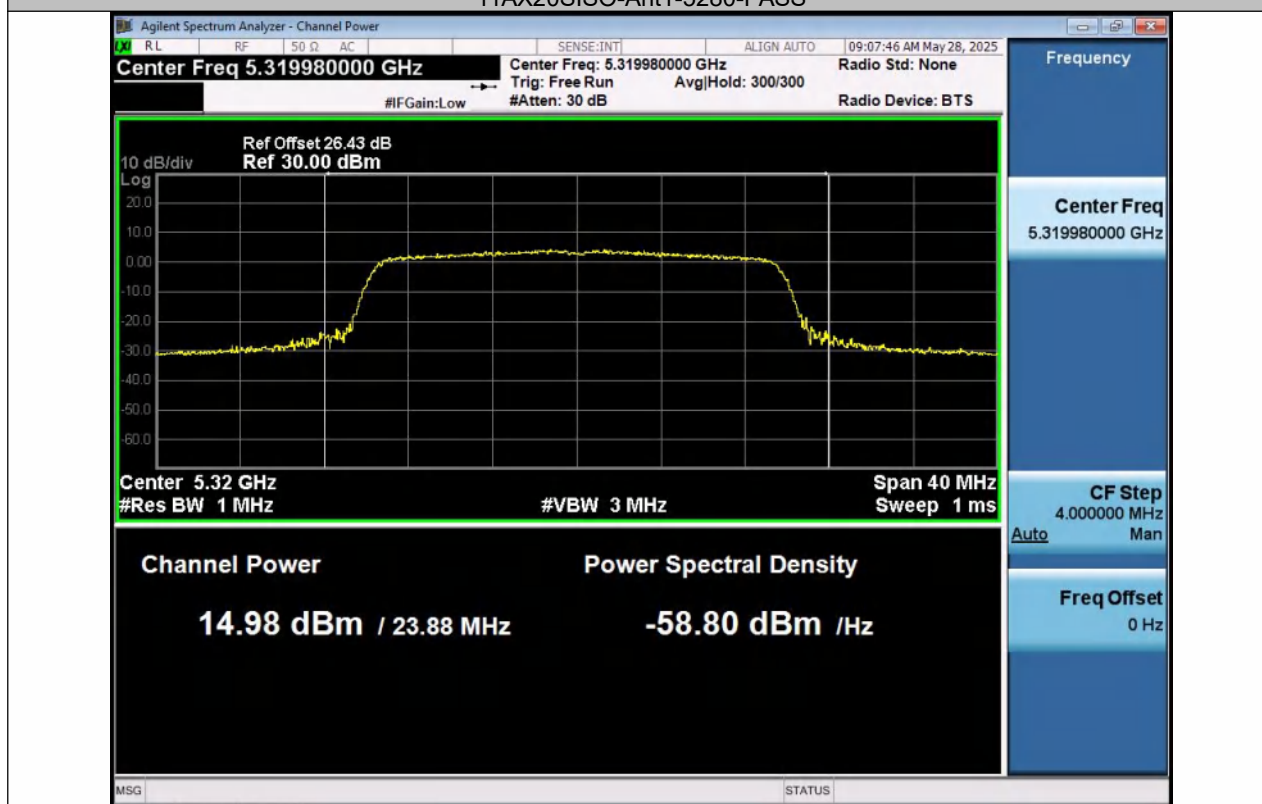
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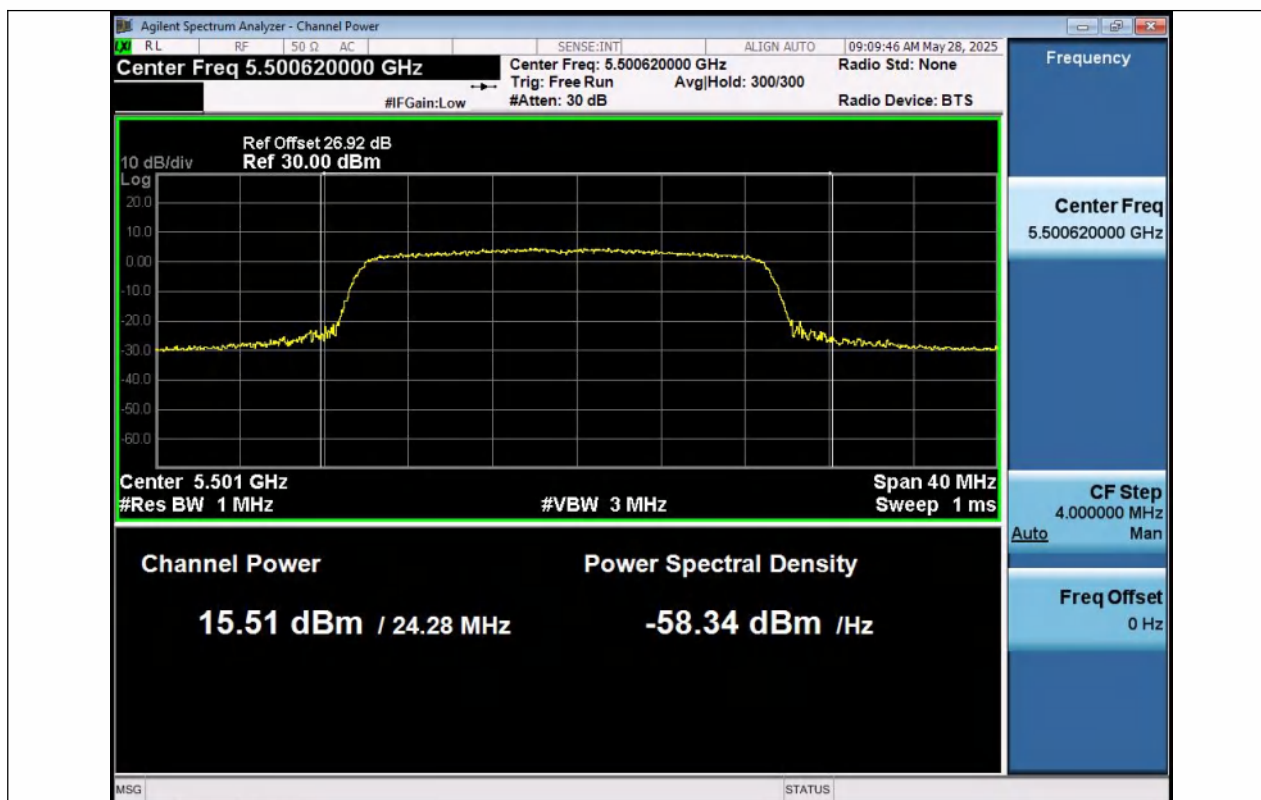
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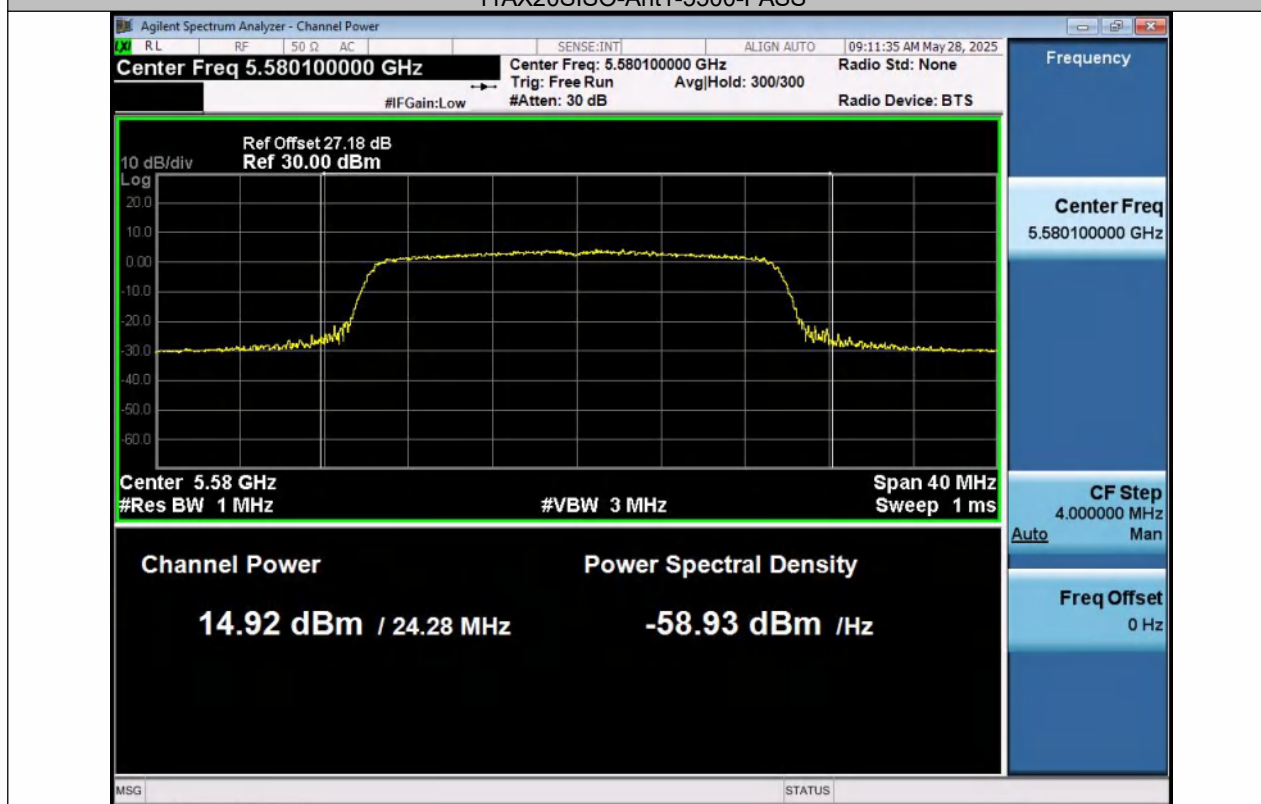
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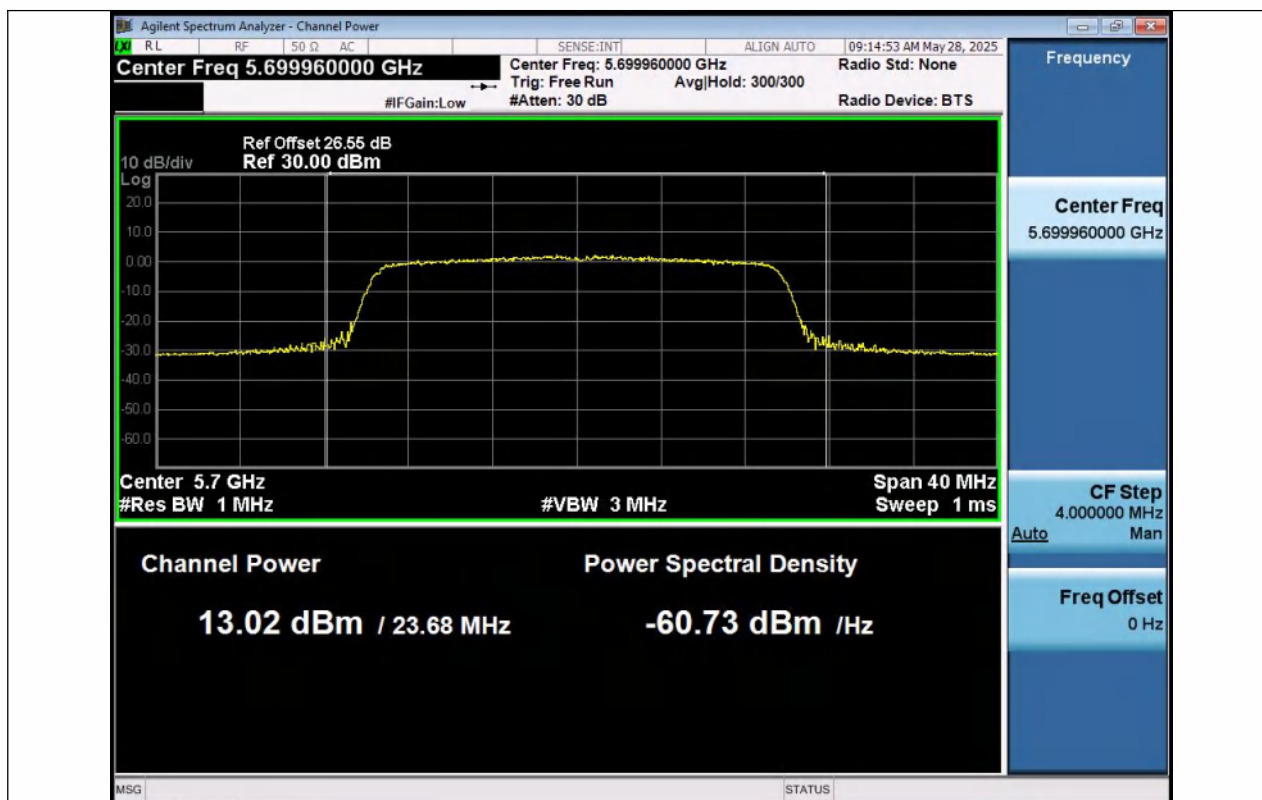
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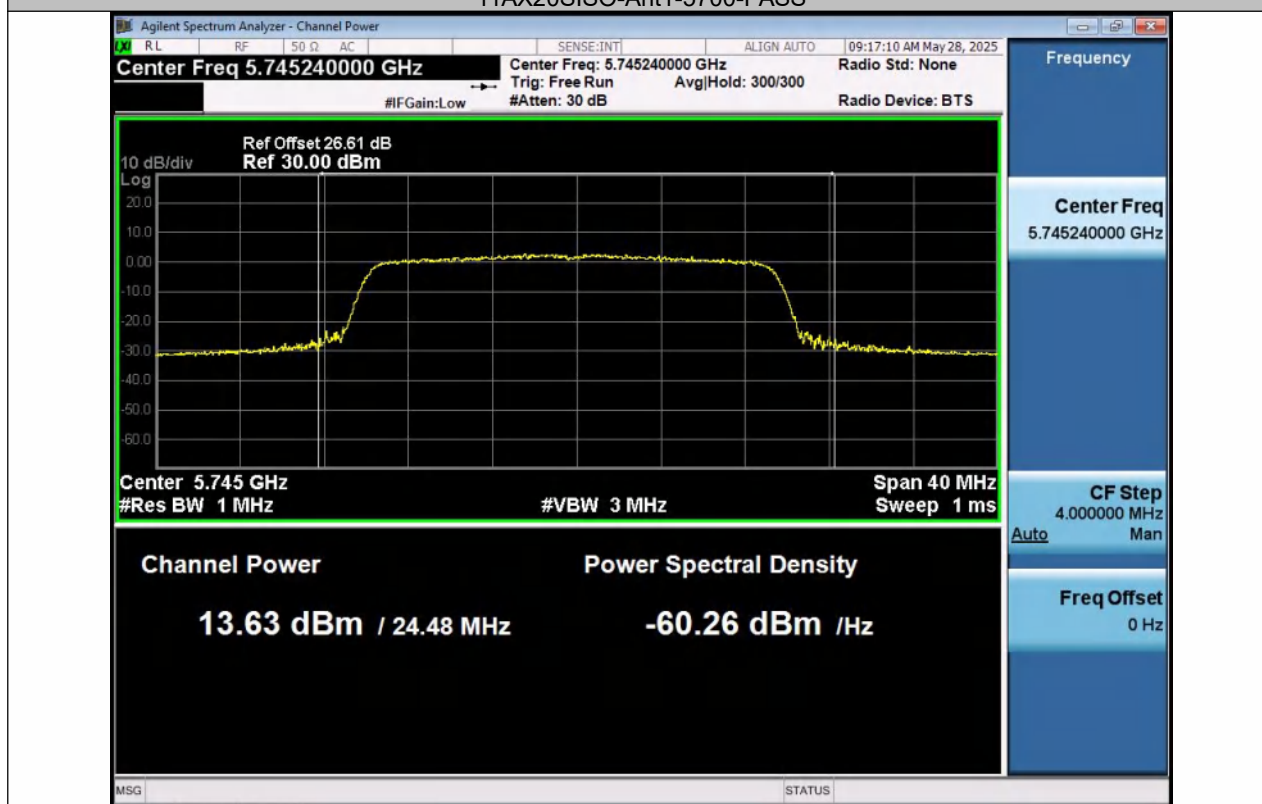
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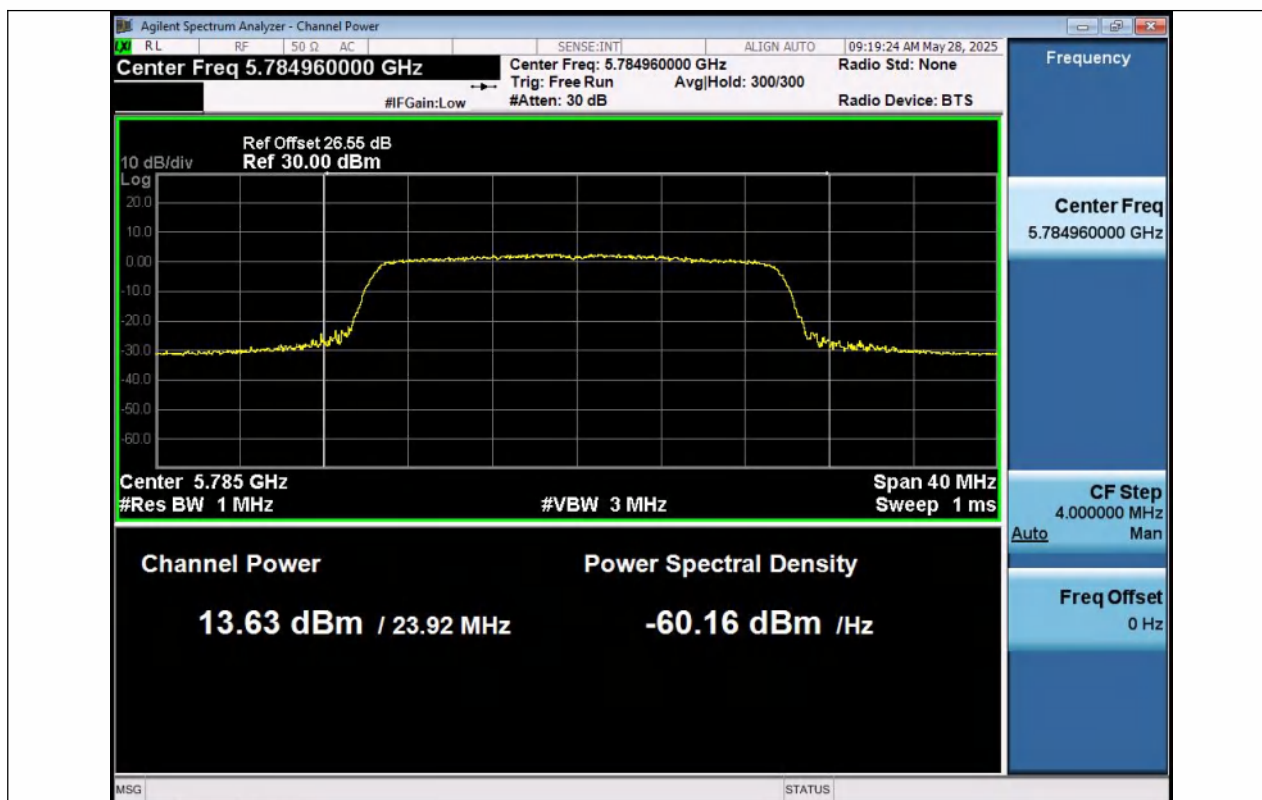
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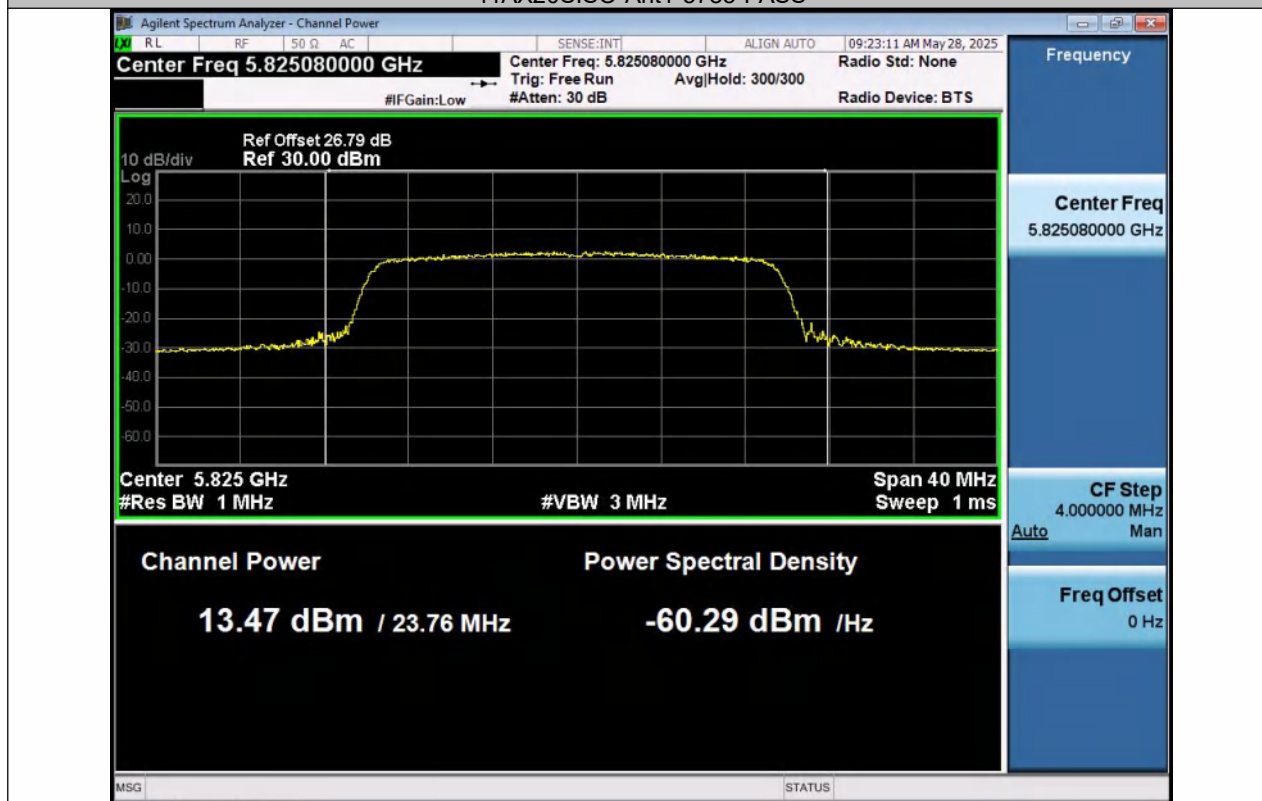
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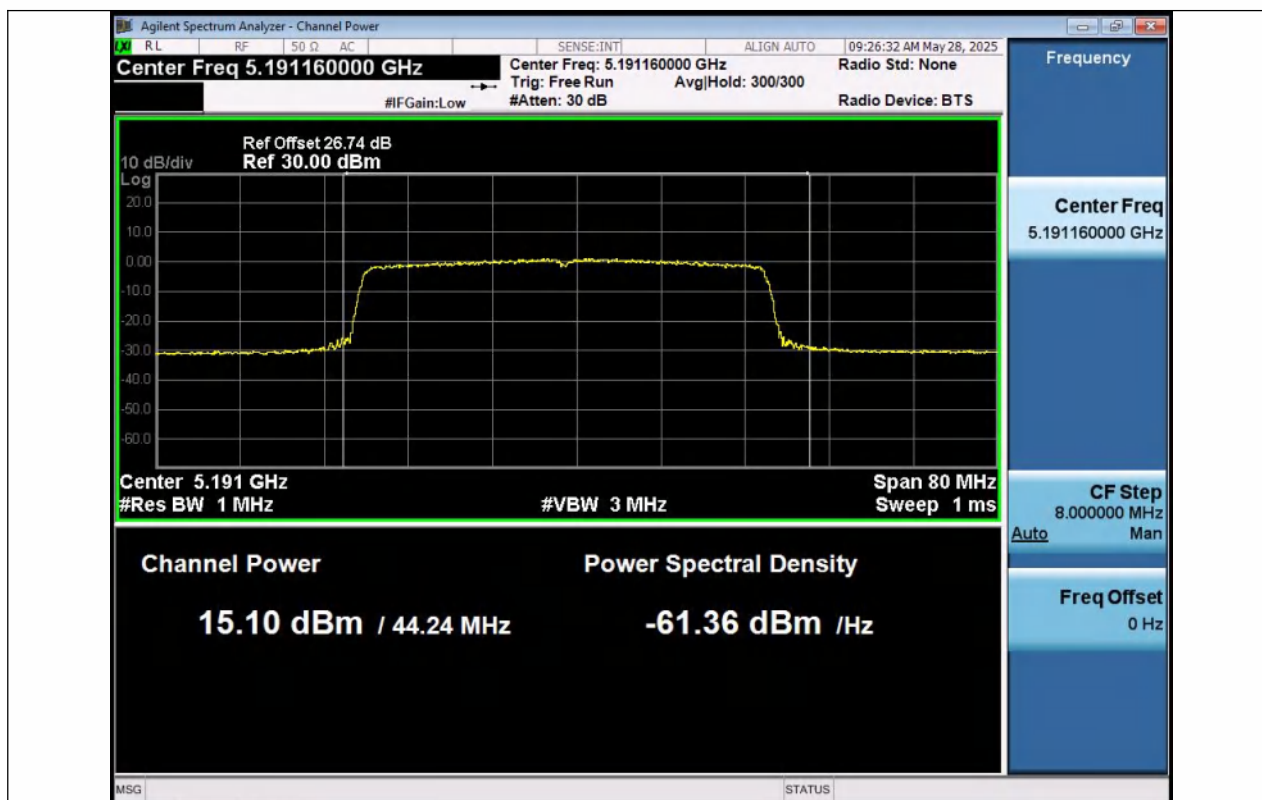
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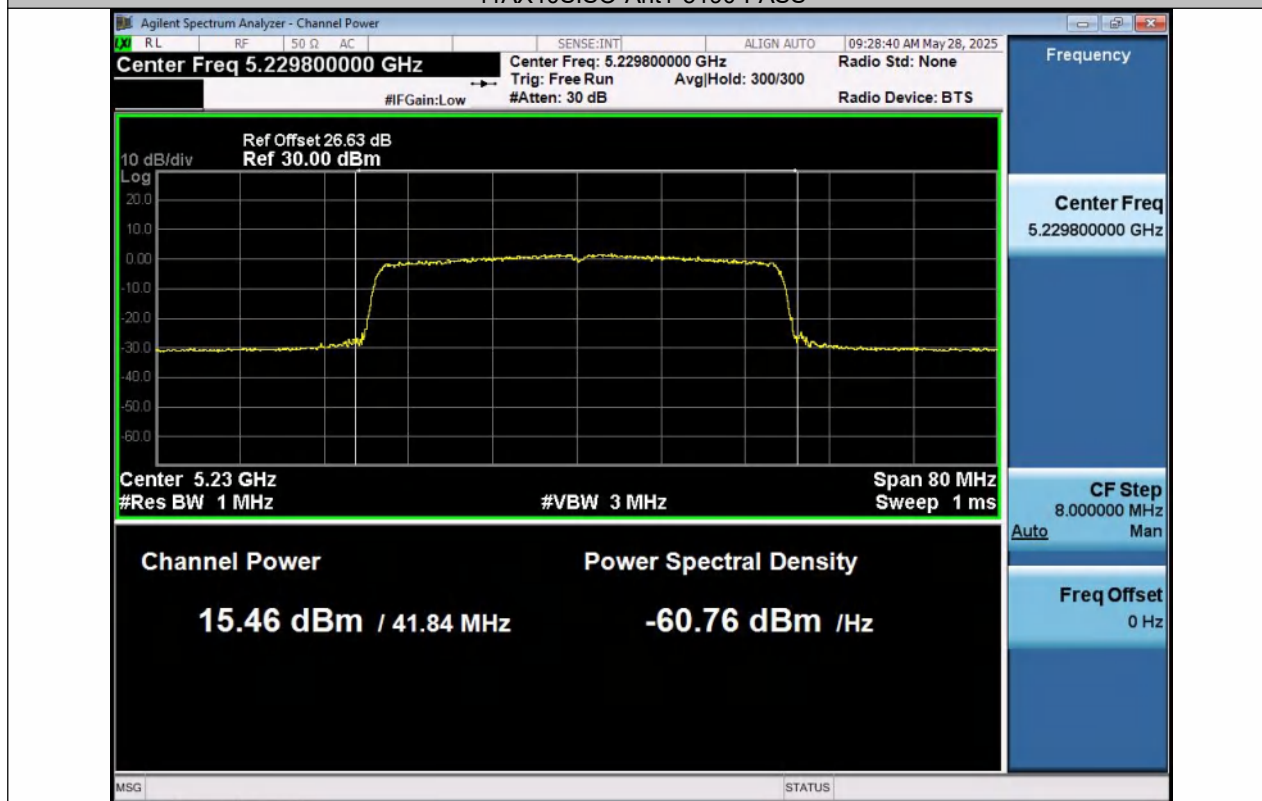
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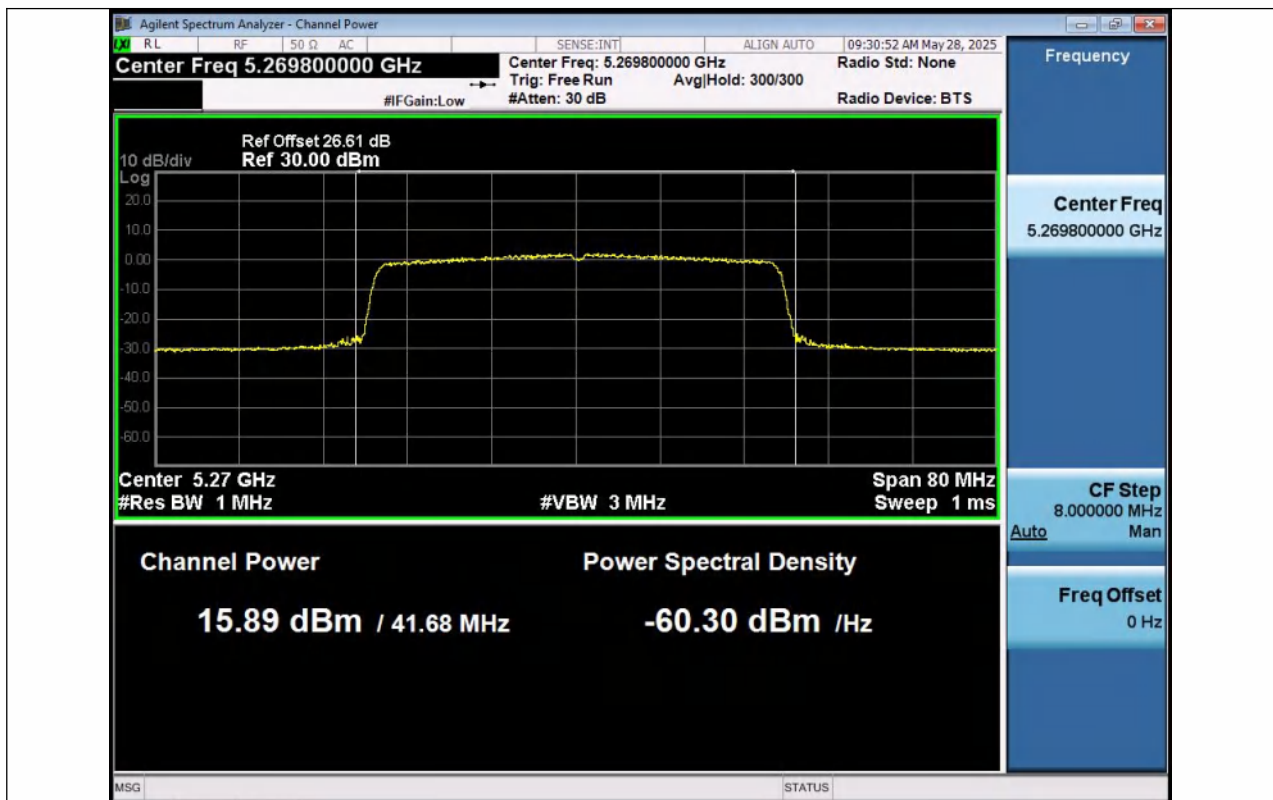
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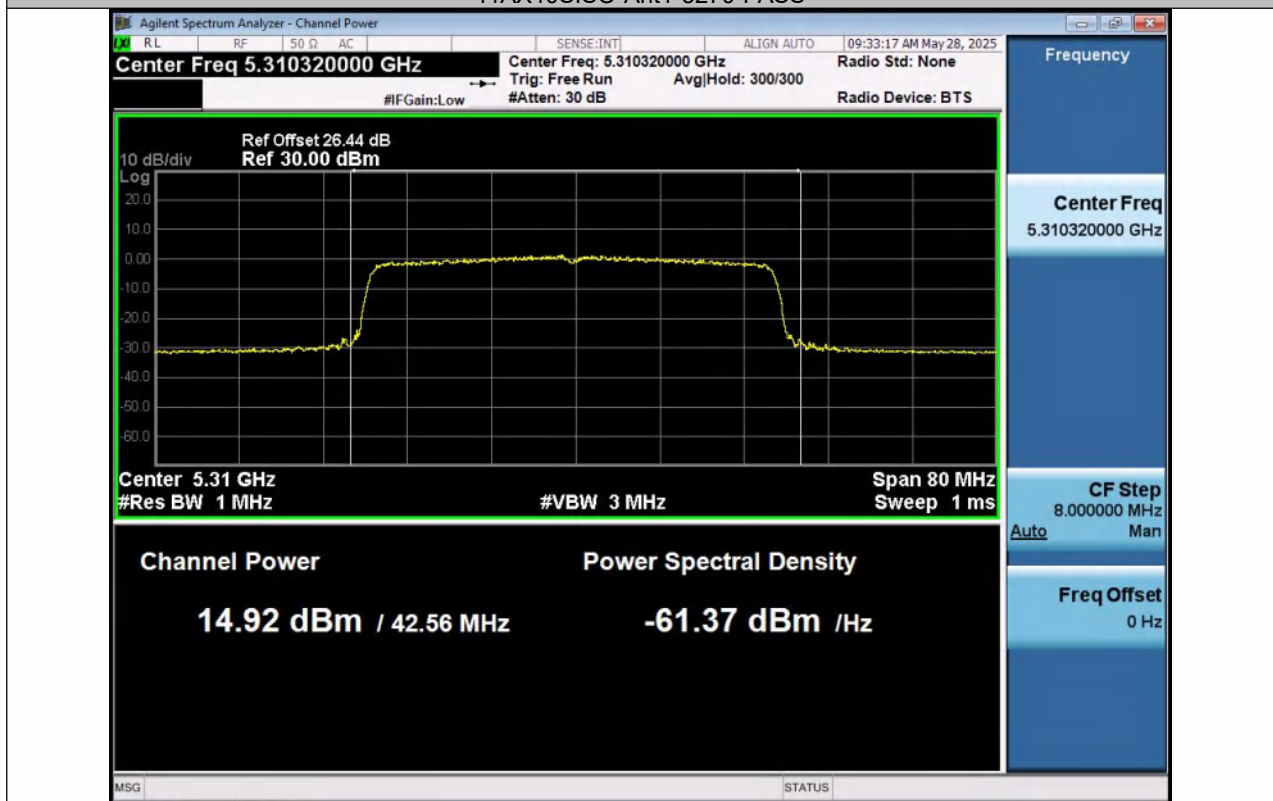
11AX40SISO-Ant1-5190-PASS



11AX40SISO-Ant1-5230-PASS



11AX40SISO-Ant1-5270-PASS



11AX40SISO-Ant1-5310-PASS