

TEST REPORT**6 Conducted Unwanted Emission**

Test result: Pass

6.1 Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

6.2 Measurement Procedure

In accordance with FCC rules, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

The spurious emissions from the antenna terminal were measured. The transmitter output power was attenuated using an attenuator and the frequency spectrum investigated from 9kHz to 20GHz. The resolution bandwidth of 1MHz was employed for frequency band 9kHz to 20GHz. The spectrum analyzer detector was set to RMS.

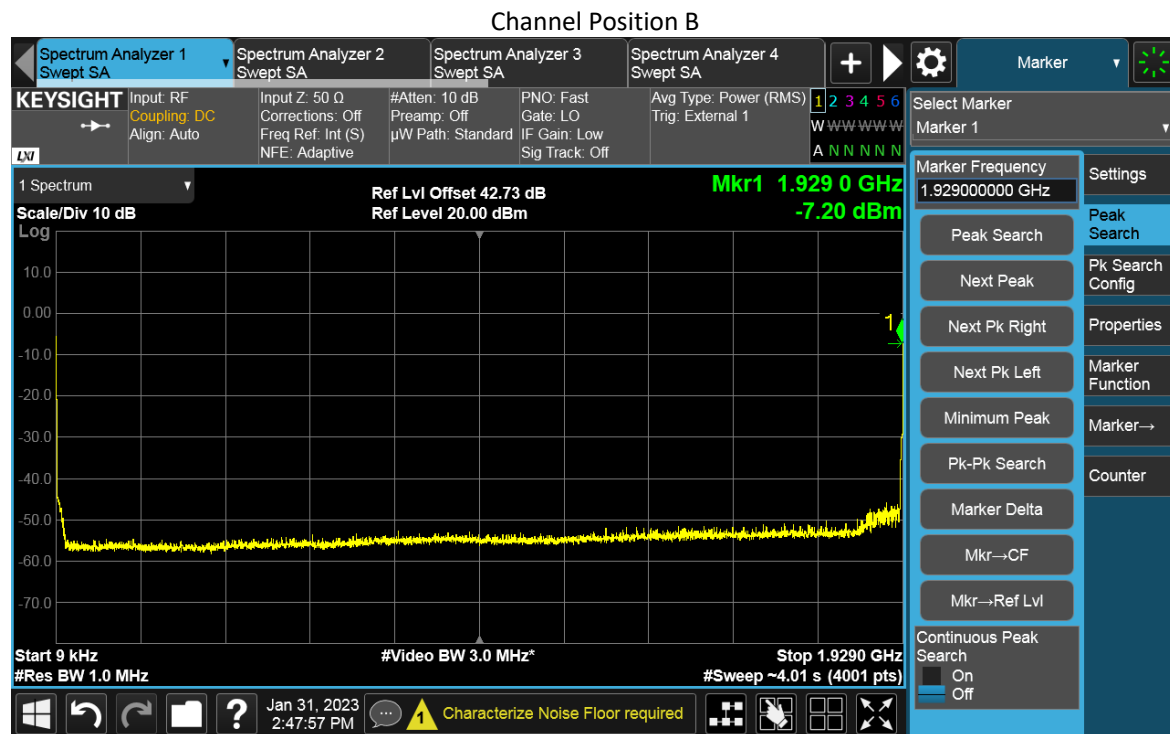
For MIMO mode configurations, the limit was adjusted with a correction of -6.02dB [$10\log(1/4)$] by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports. Then the limit was adjusted to -19.02dBm.

TEST REPORT

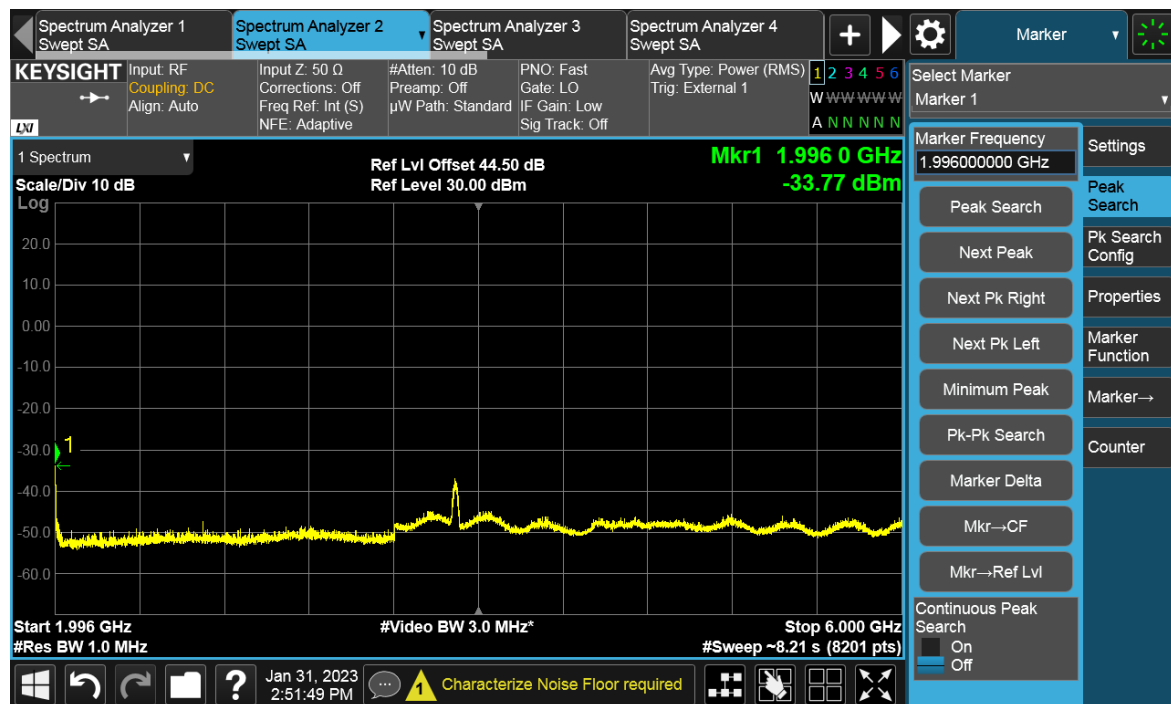
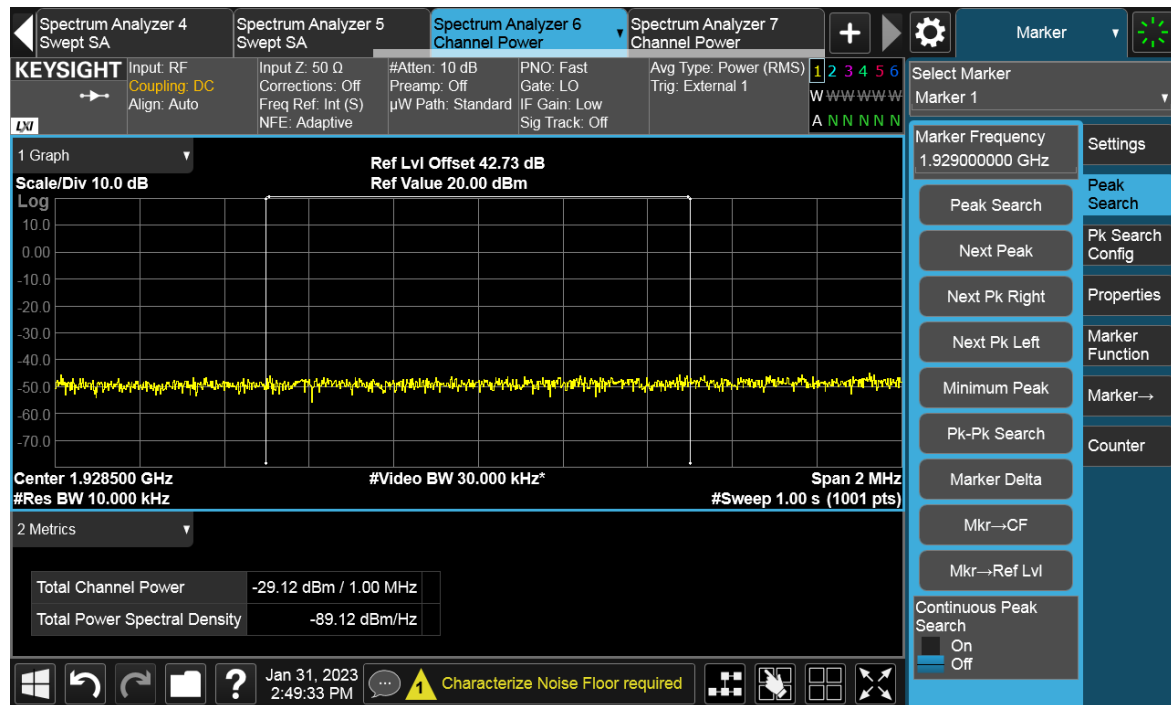
6.3 Measurement result

NR-1C

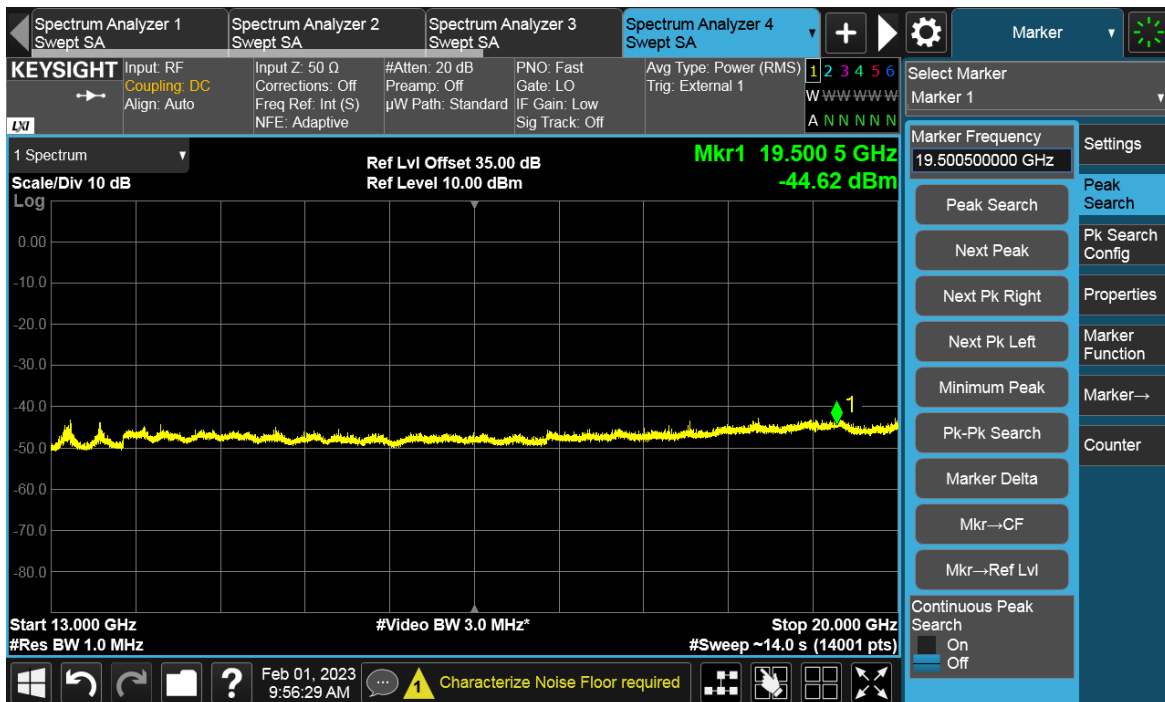
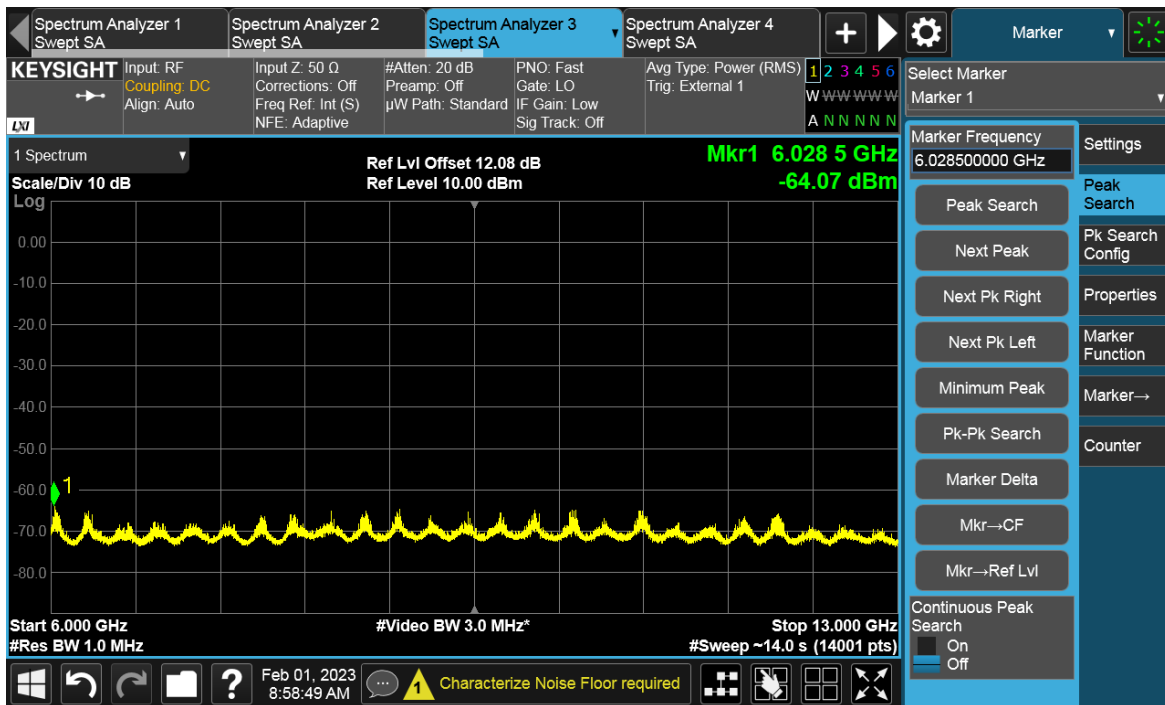
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	B	256QAM	25	1000	-19.02
D	M	256QAM	25	1000	-19.02
D	T	256QAM	25	1000	-19.02



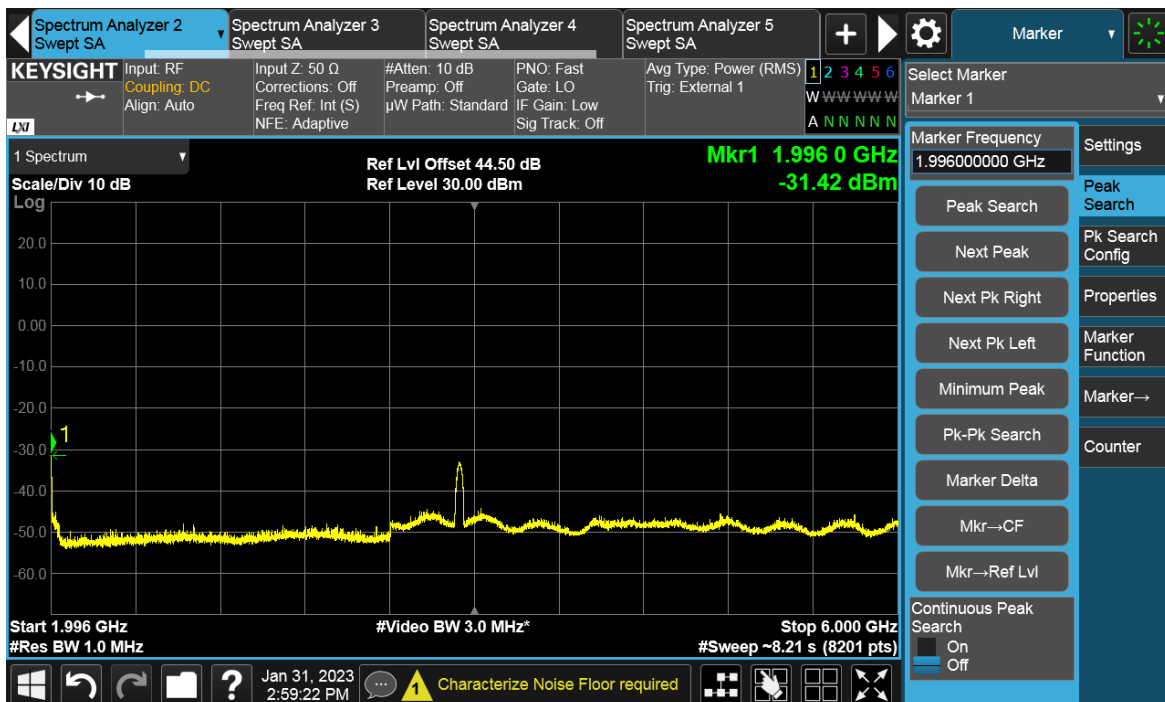
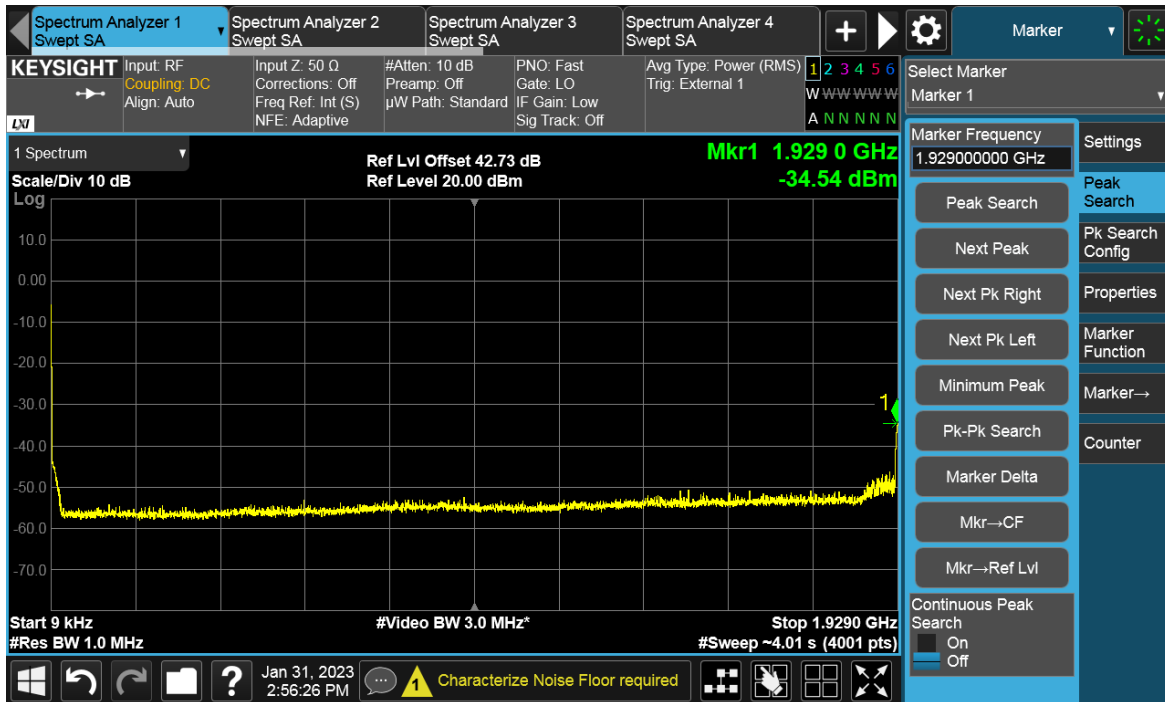
TEST REPORT



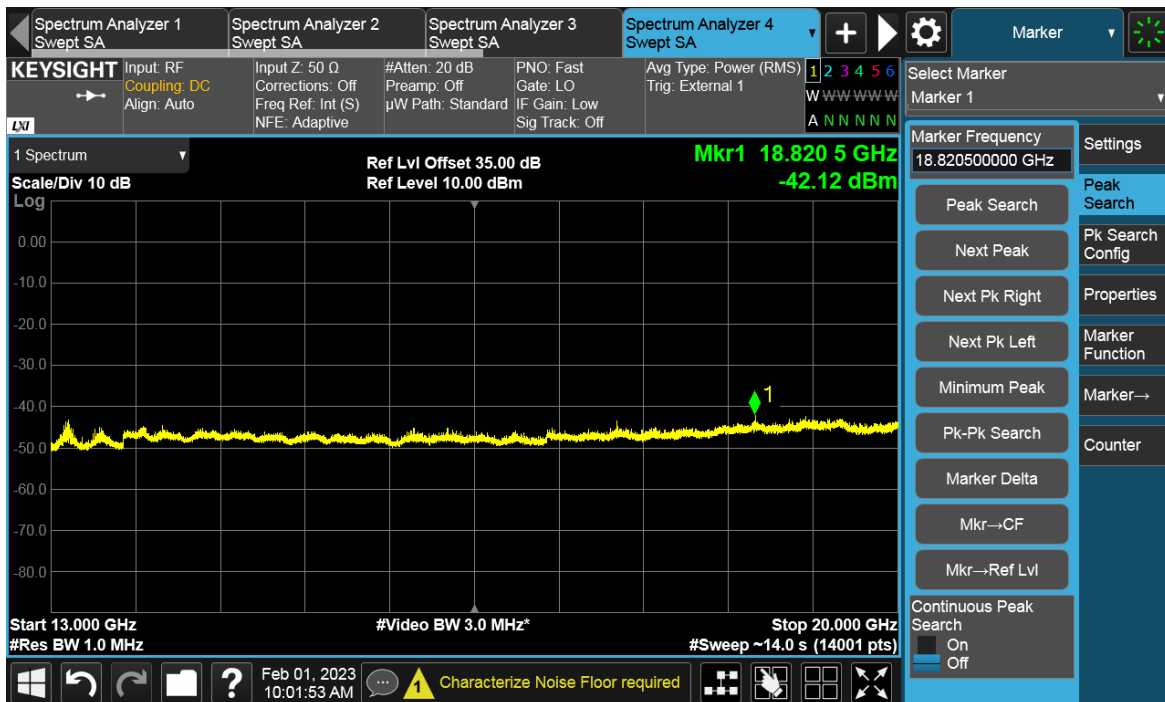
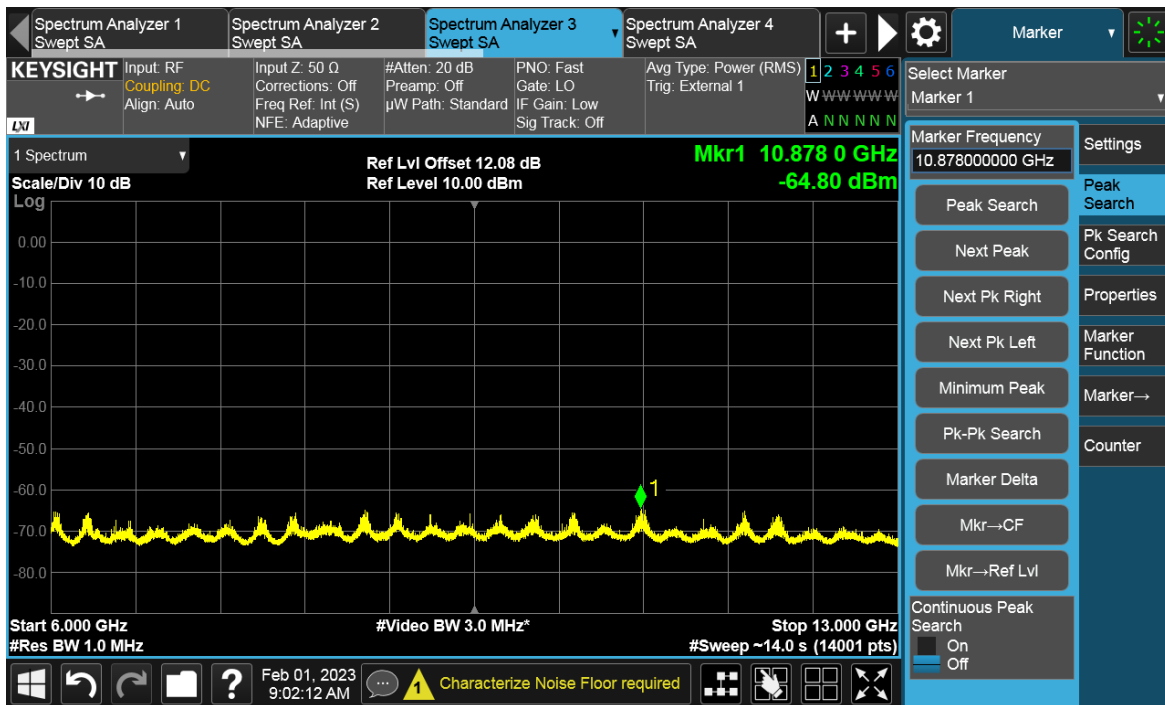
TEST REPORT



Channel Position M

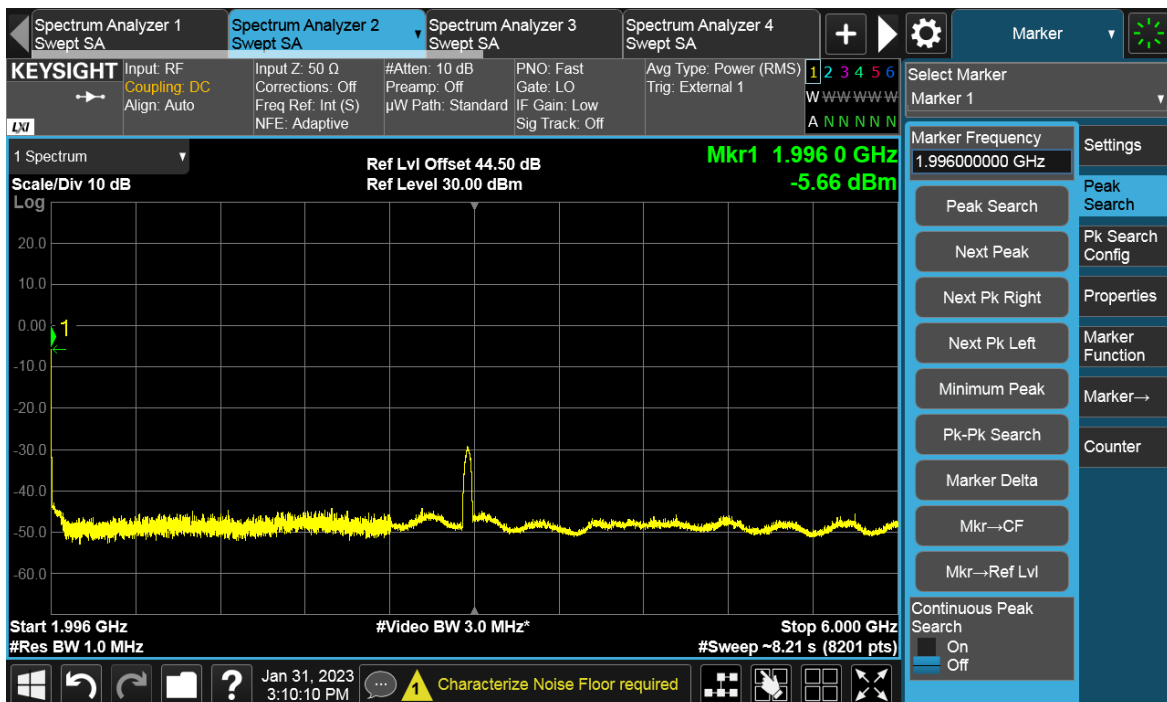
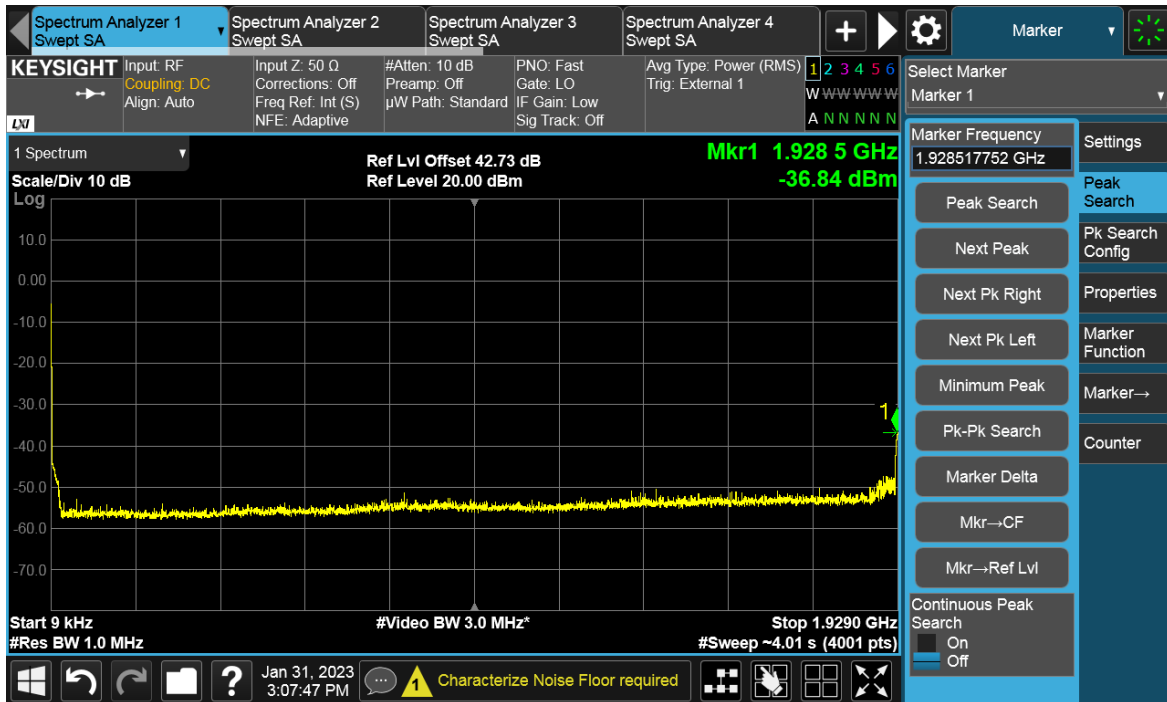


TEST REPORT

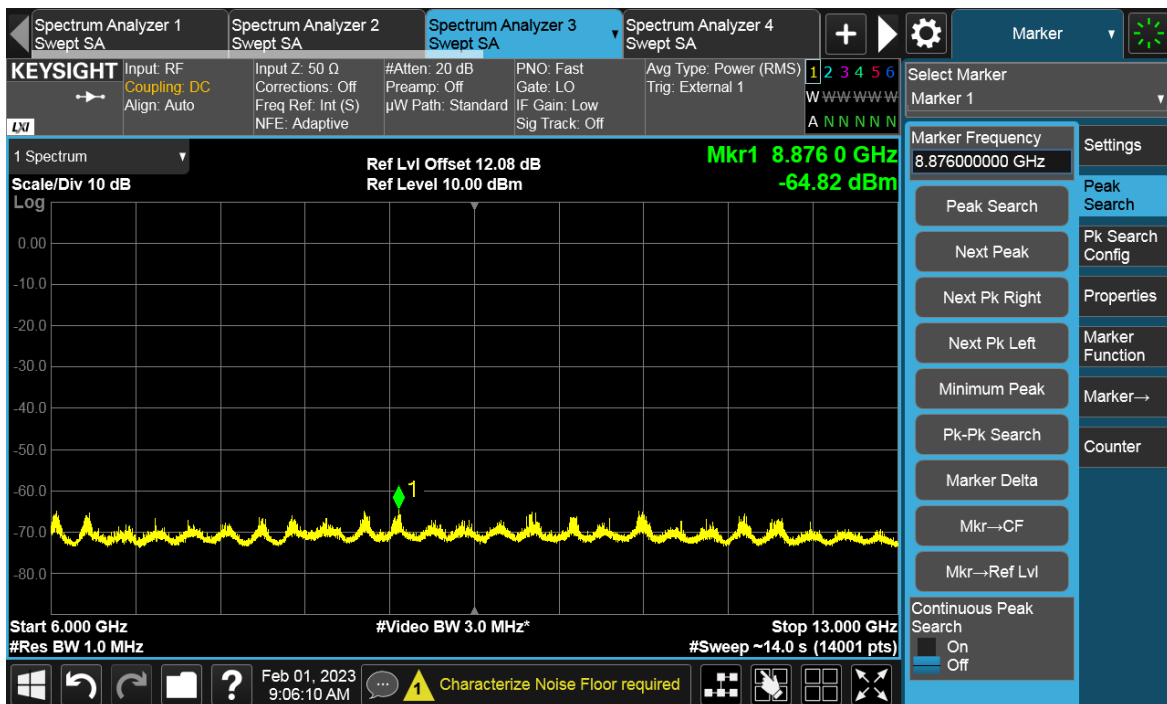
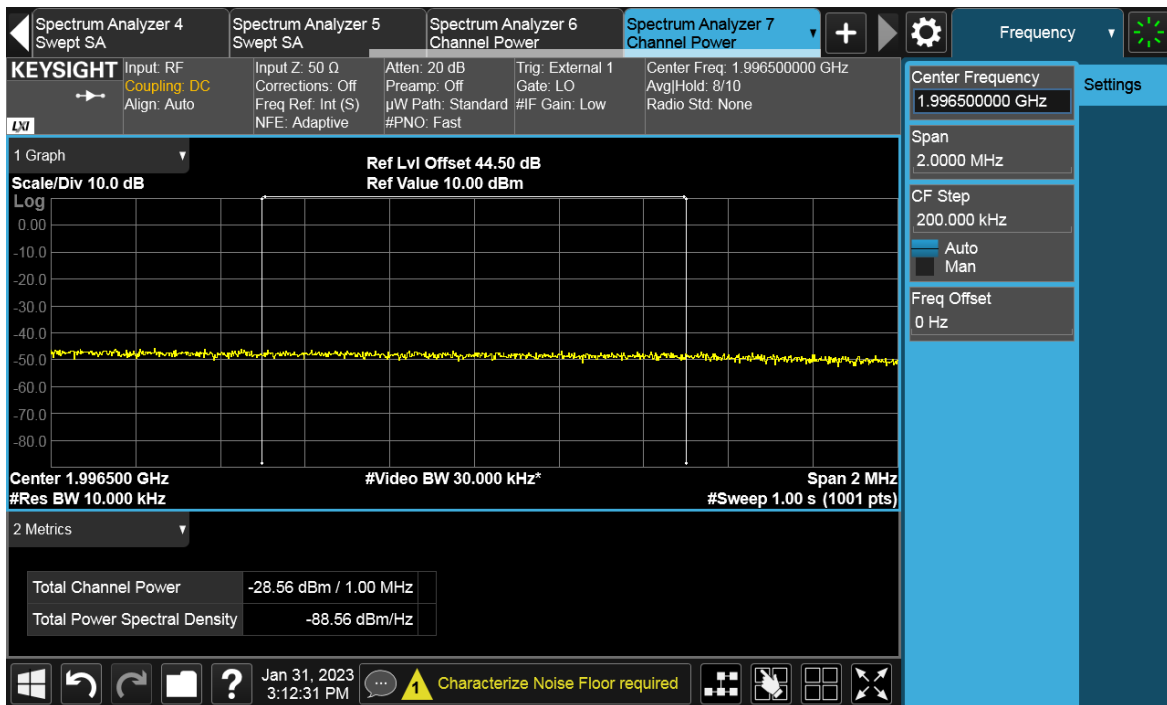


TEST REPORT

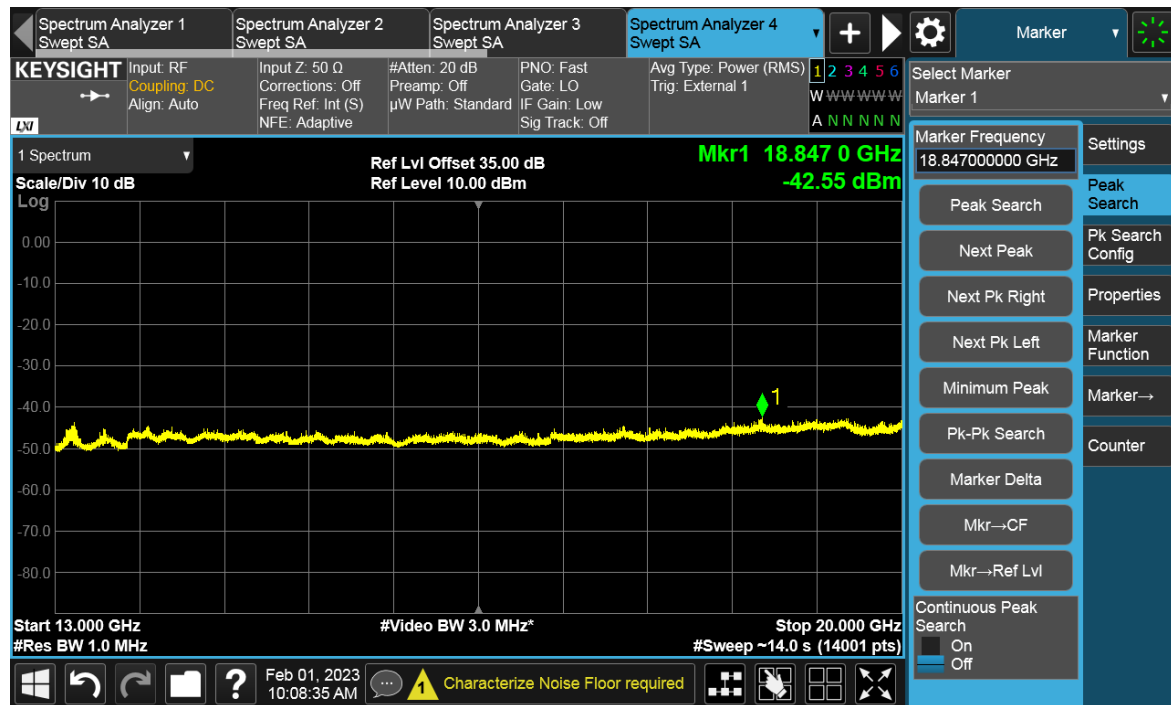
Channel Position T



TEST REPORT

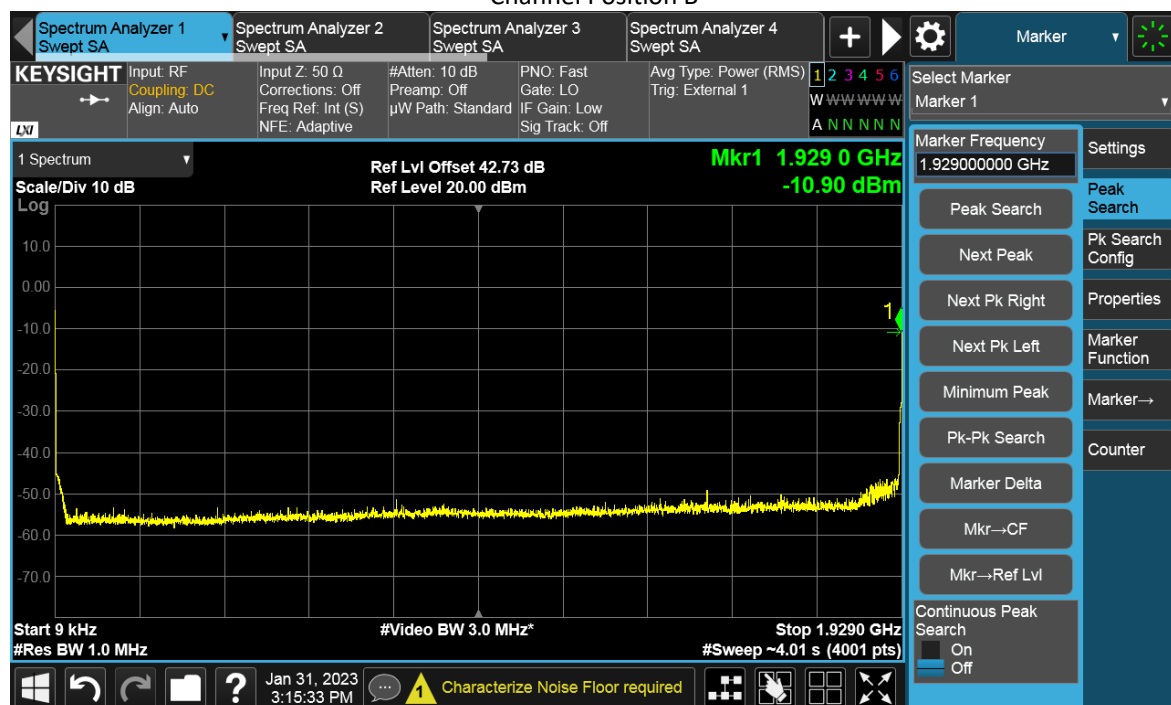


TEST REPORT

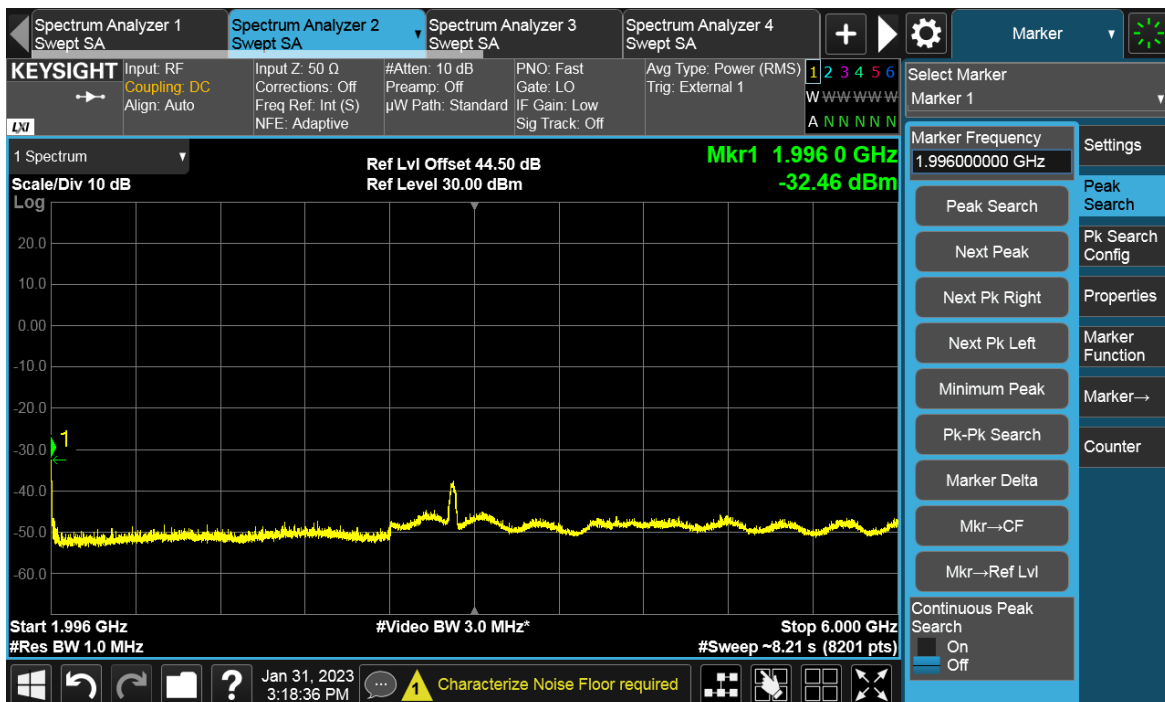
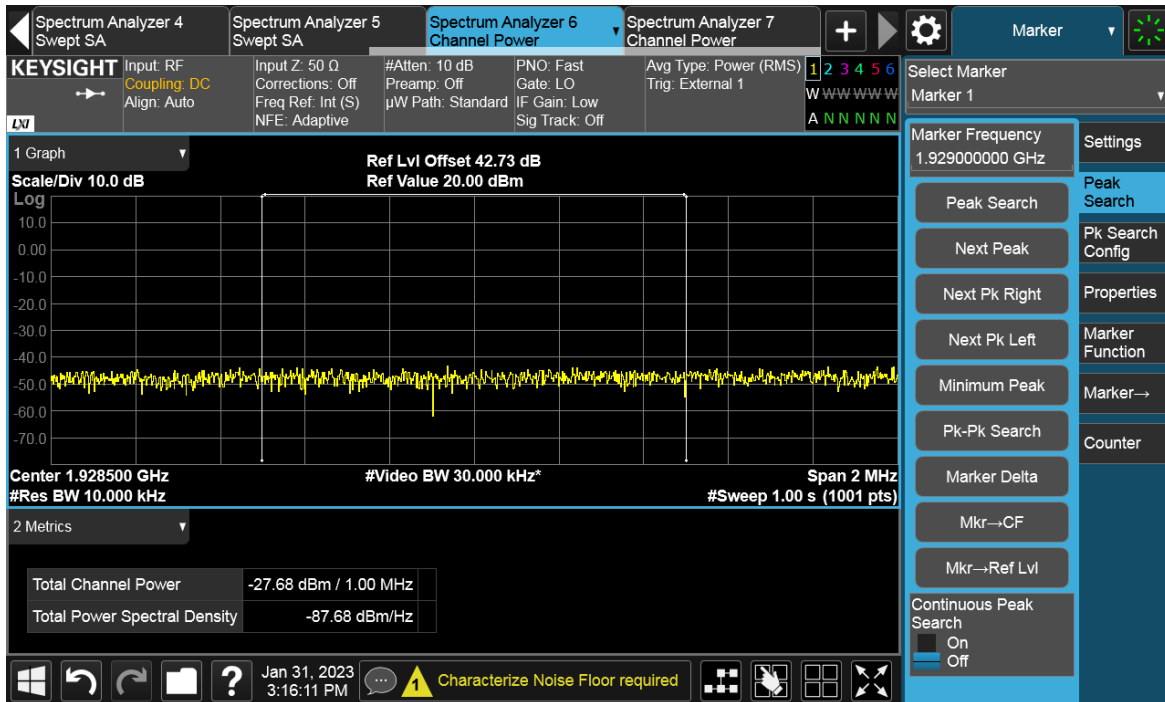


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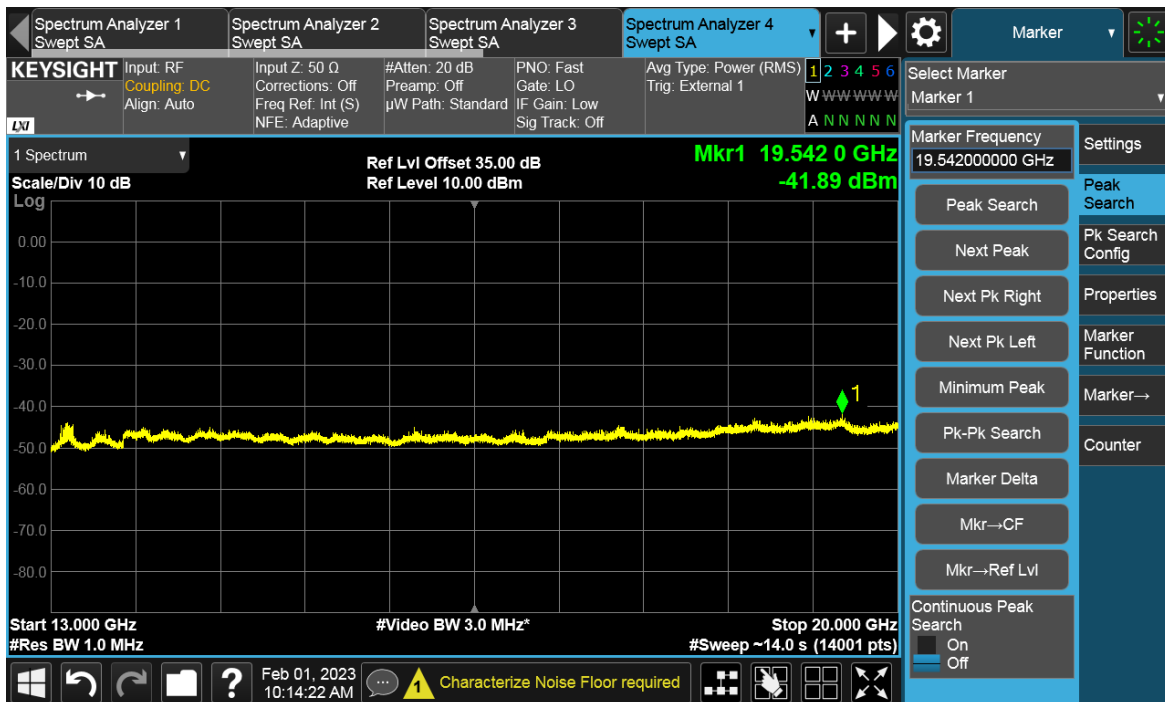
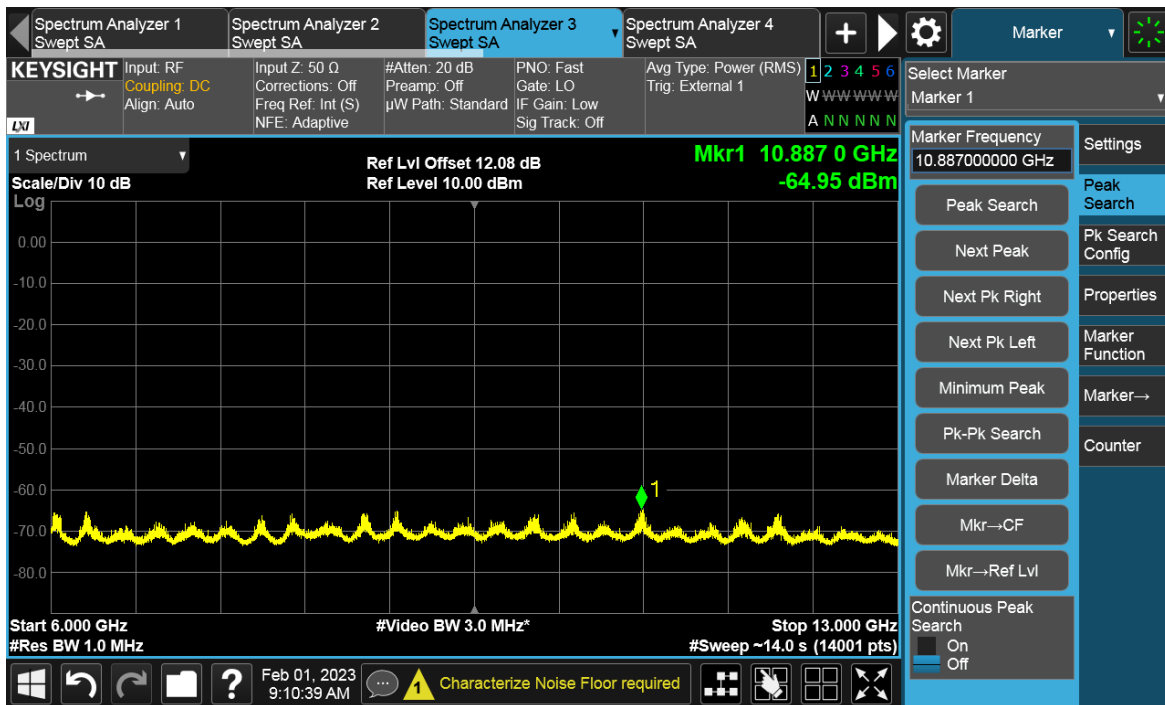
Channel Position B



TEST REPORT

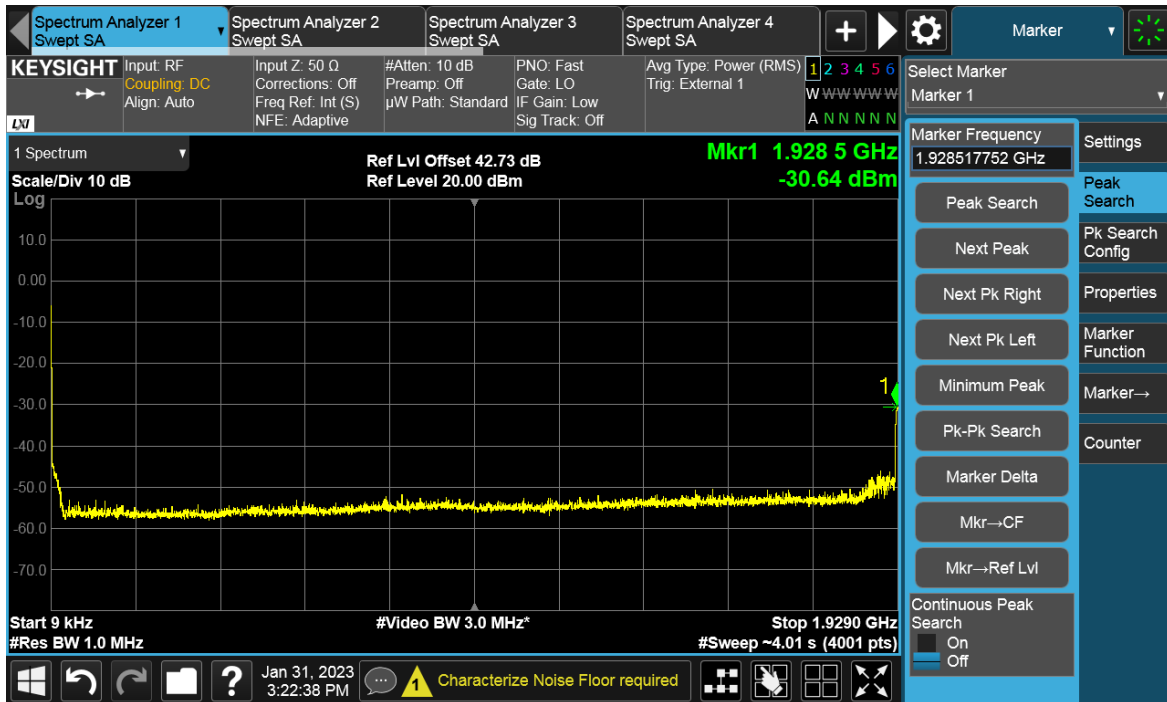


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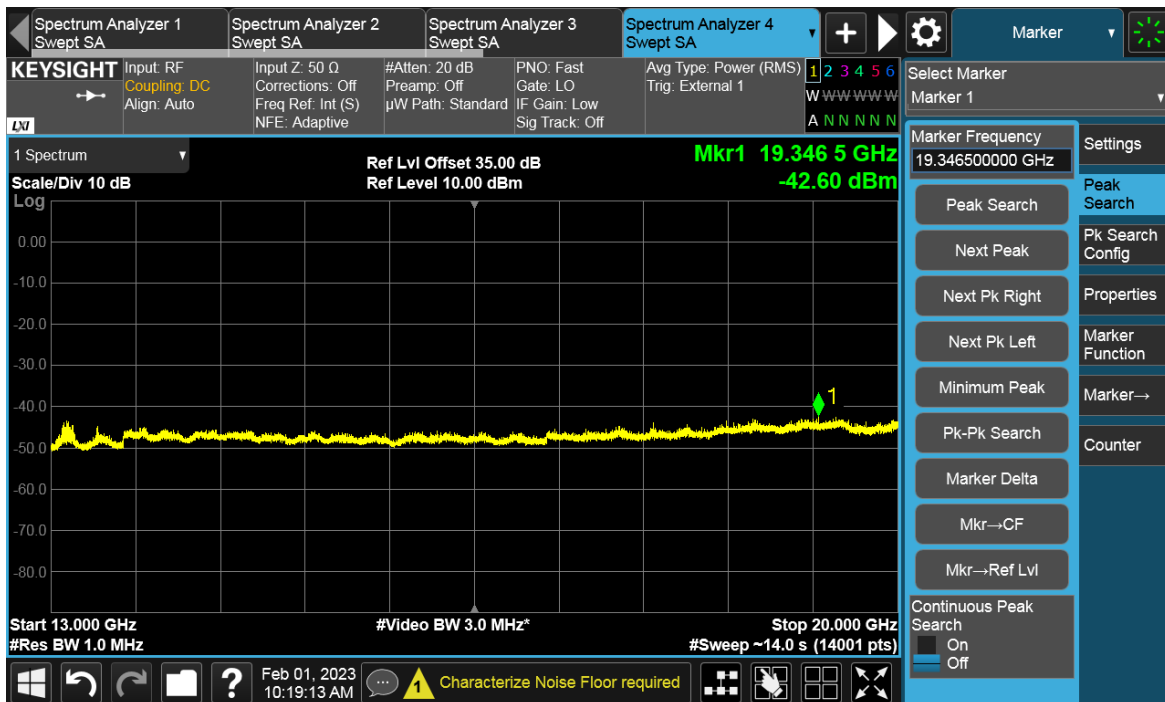
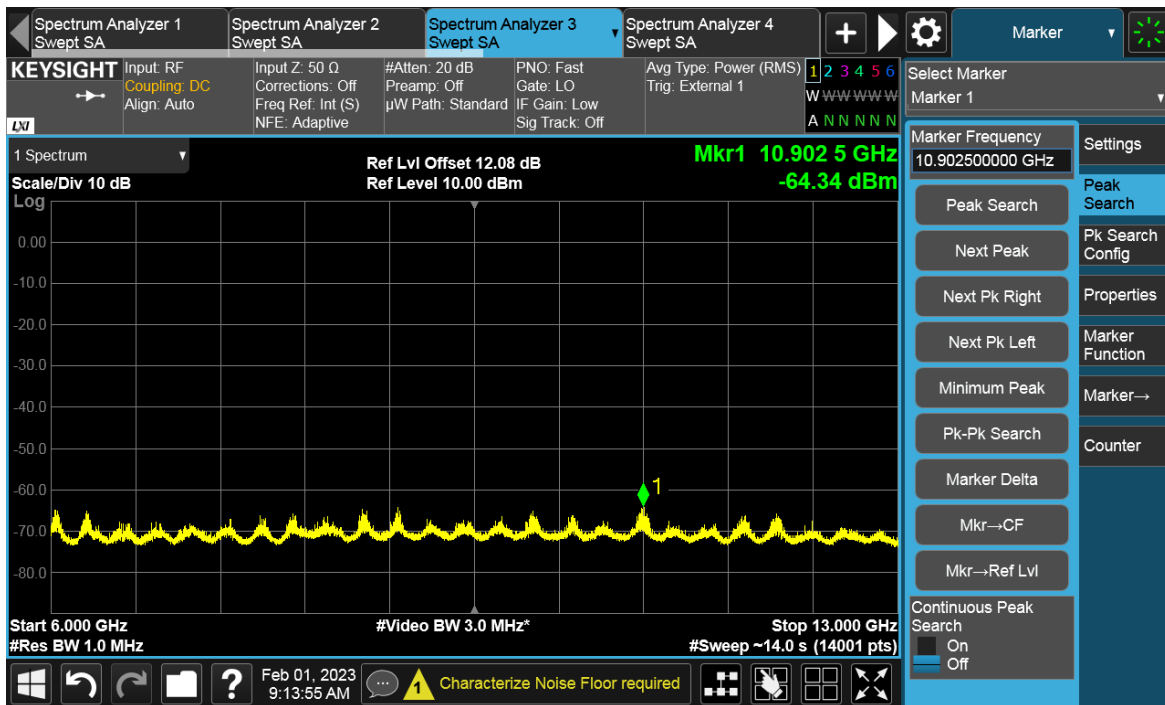


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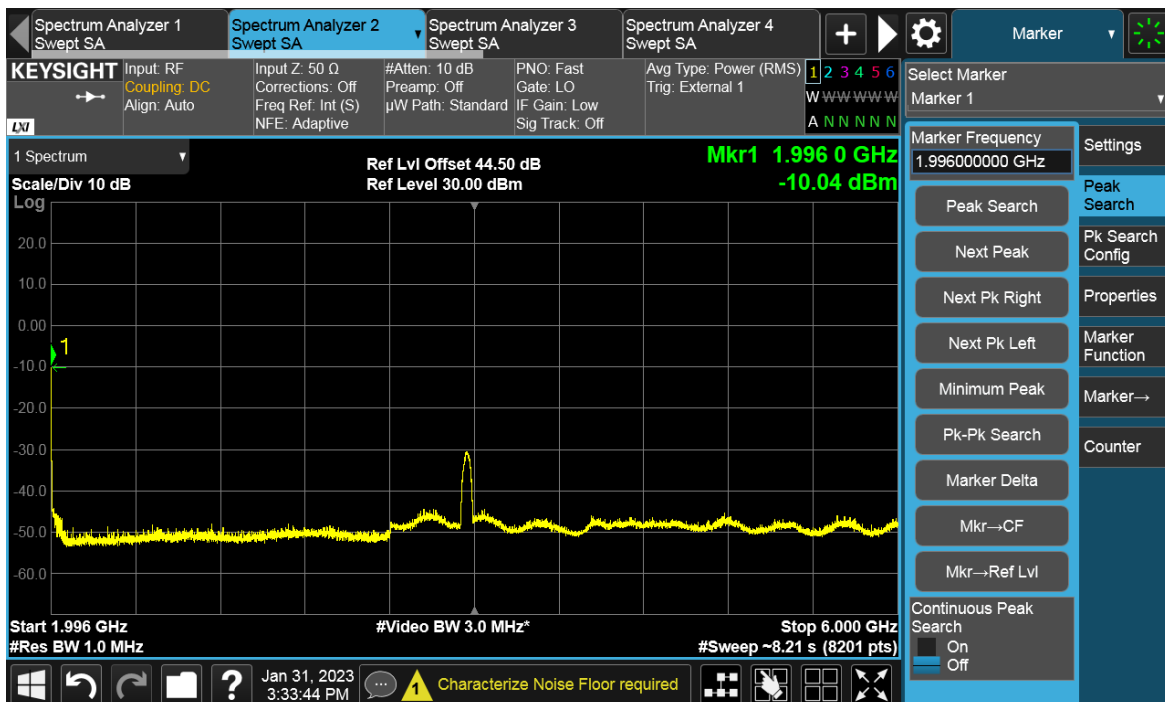
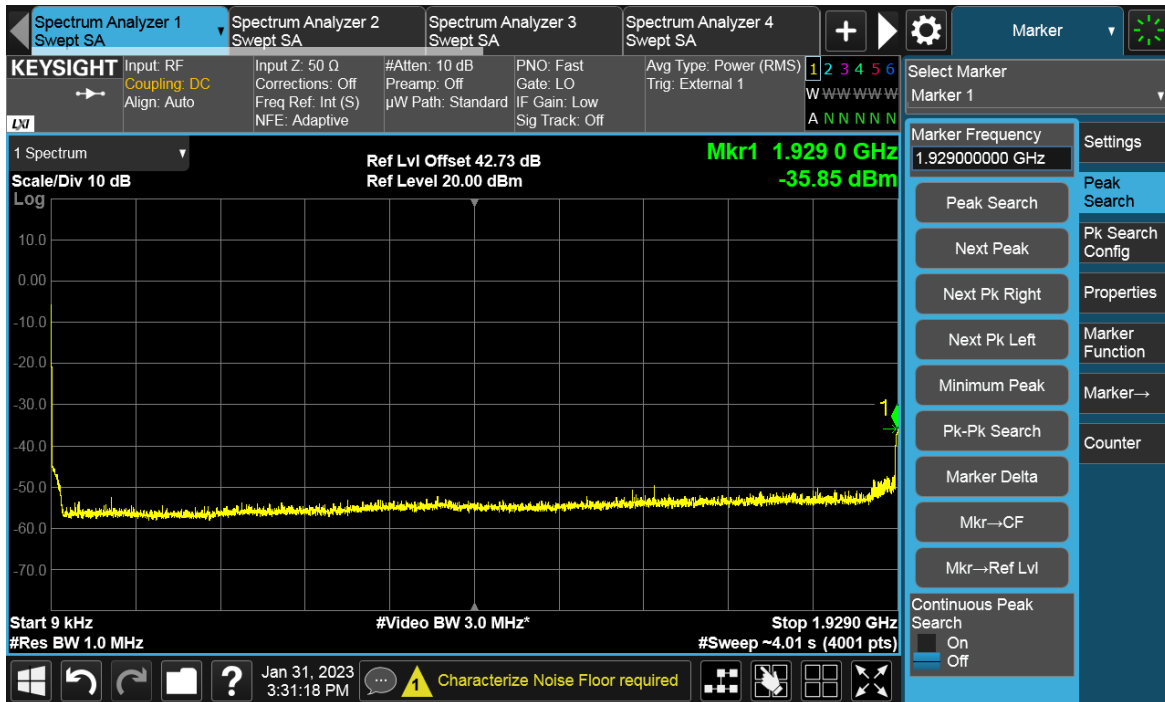
Channel Position M



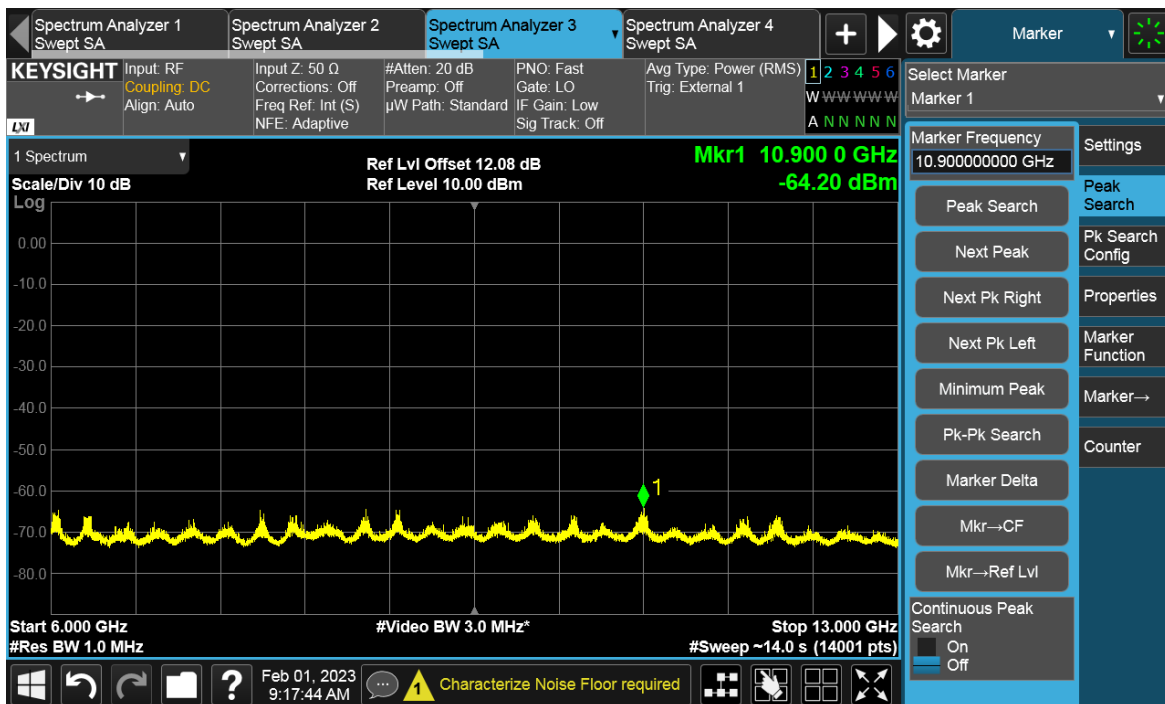
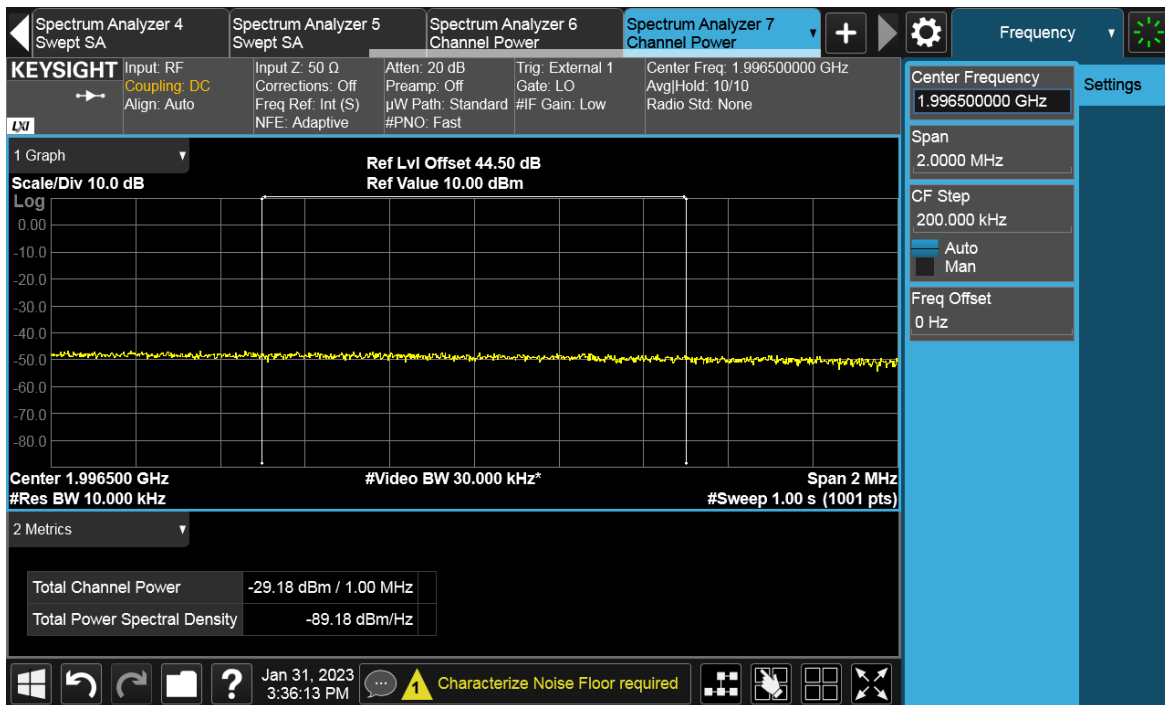
TEST REPORT



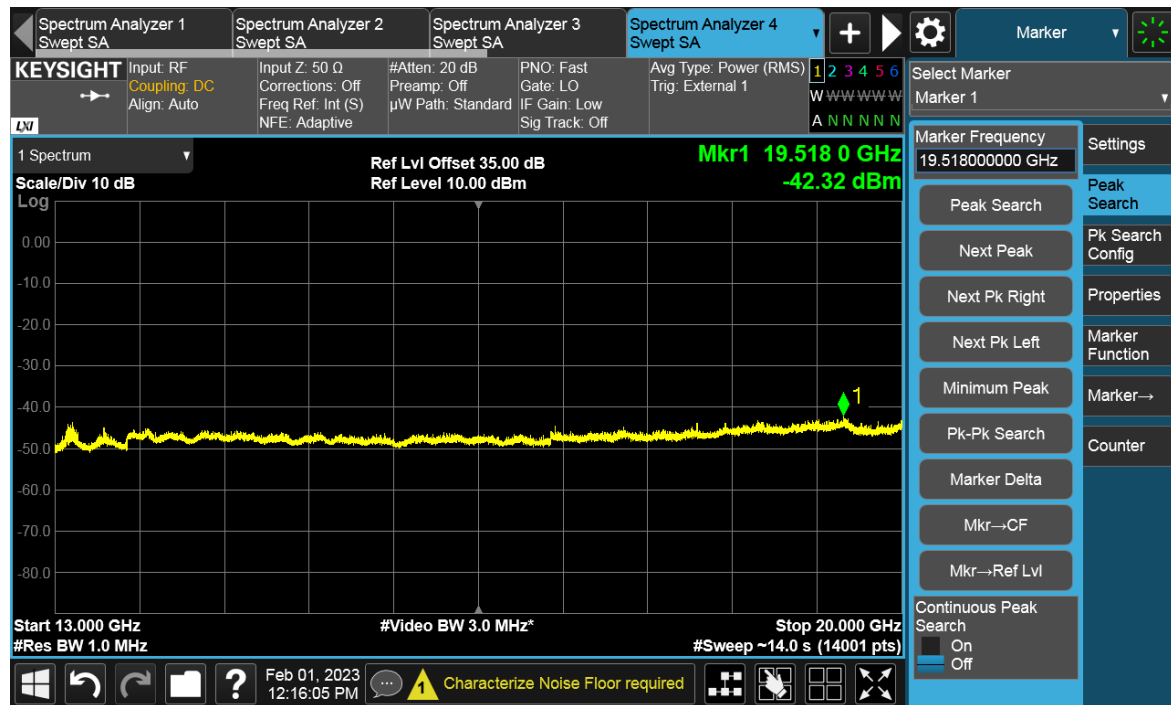
Channel Position T



TEST REPORT

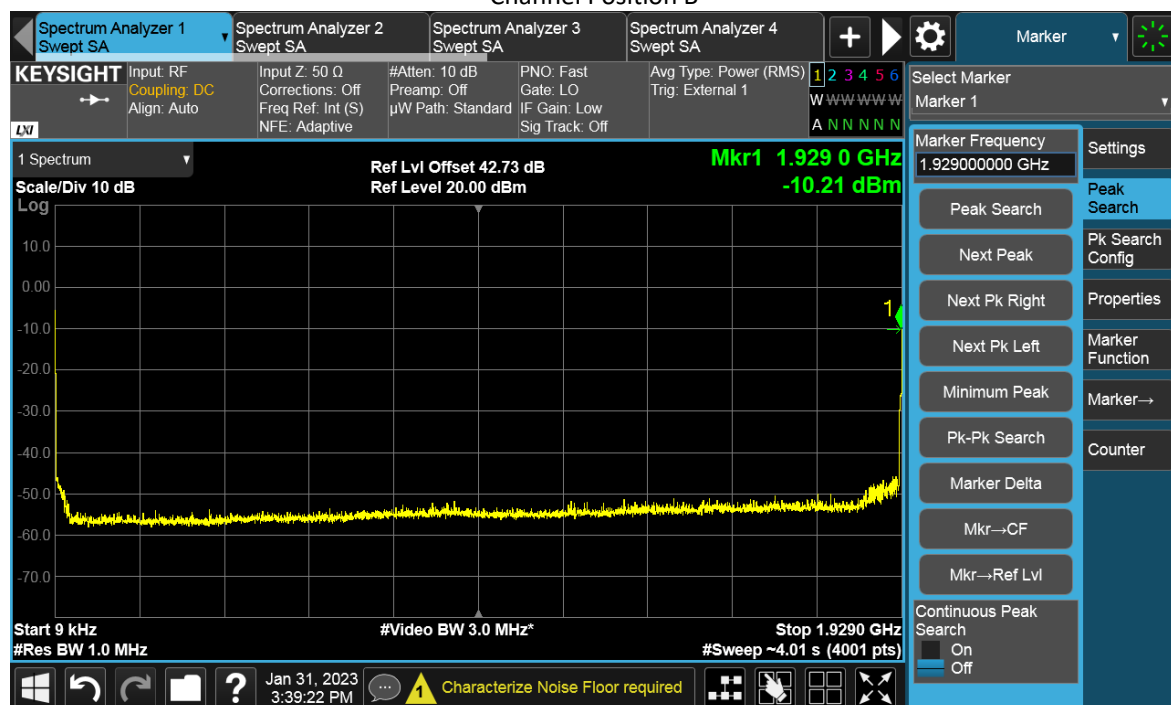


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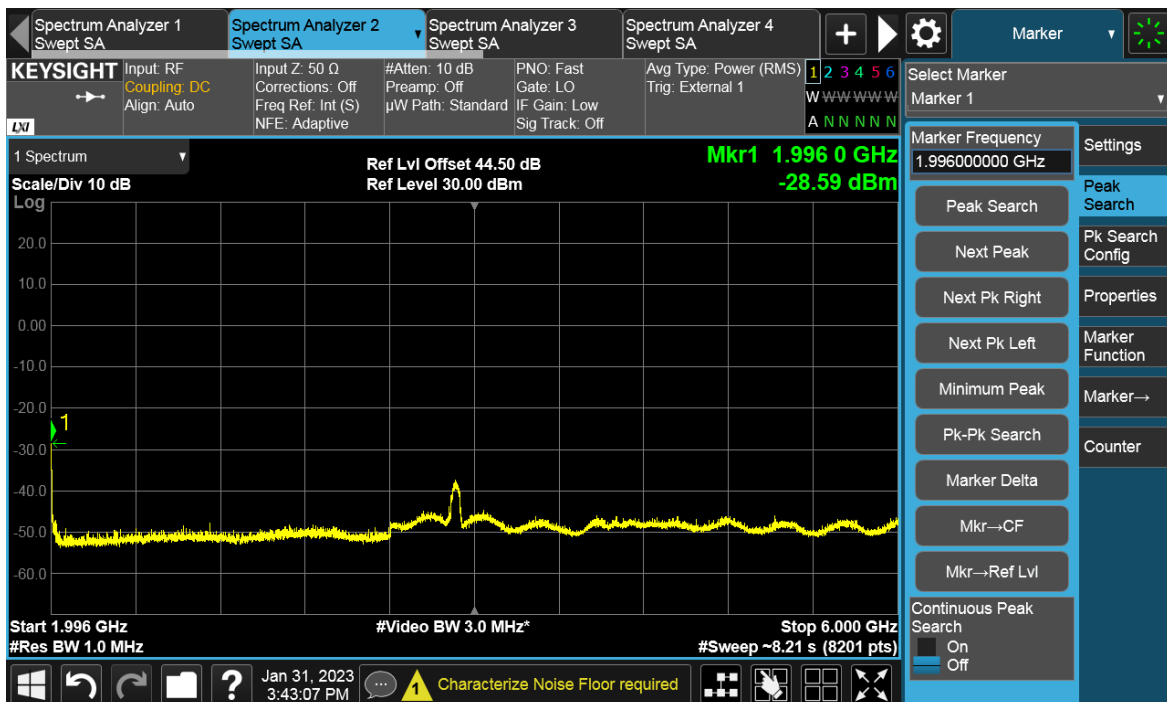
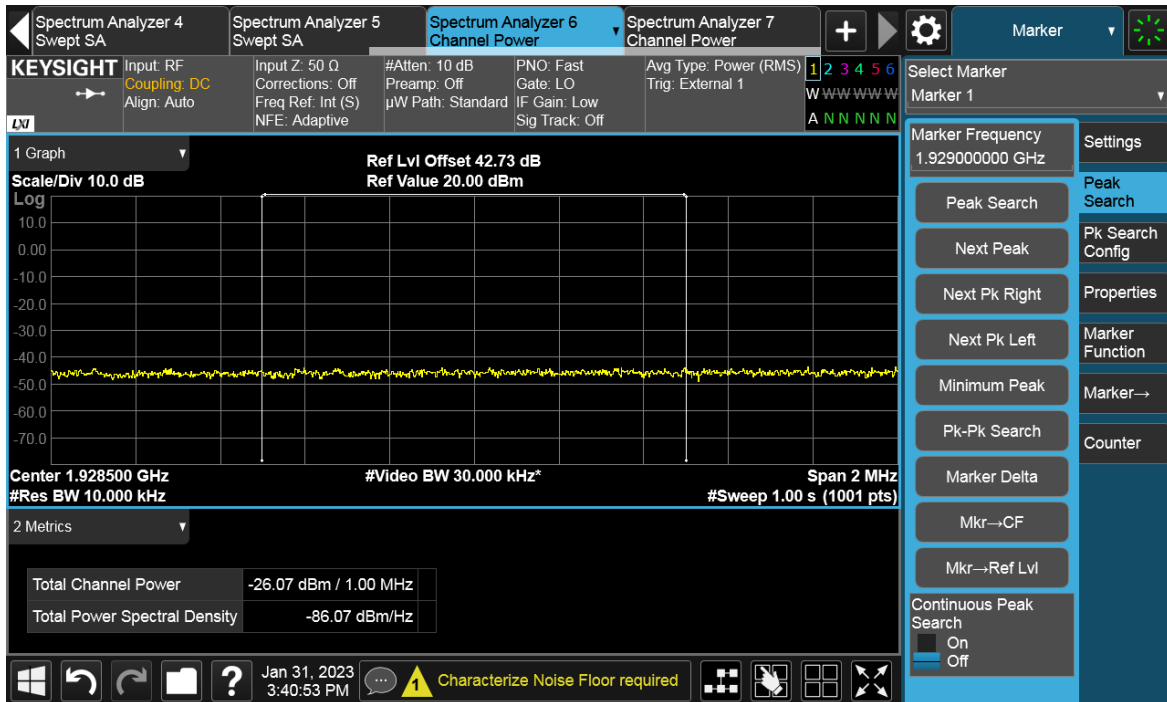


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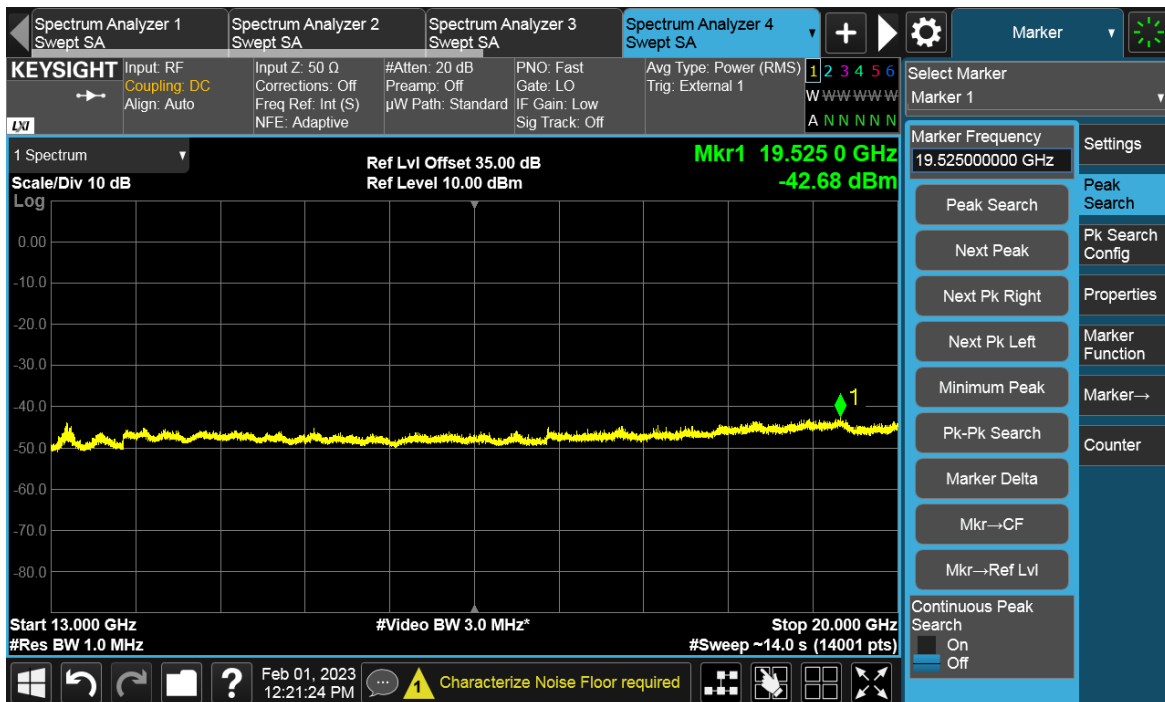
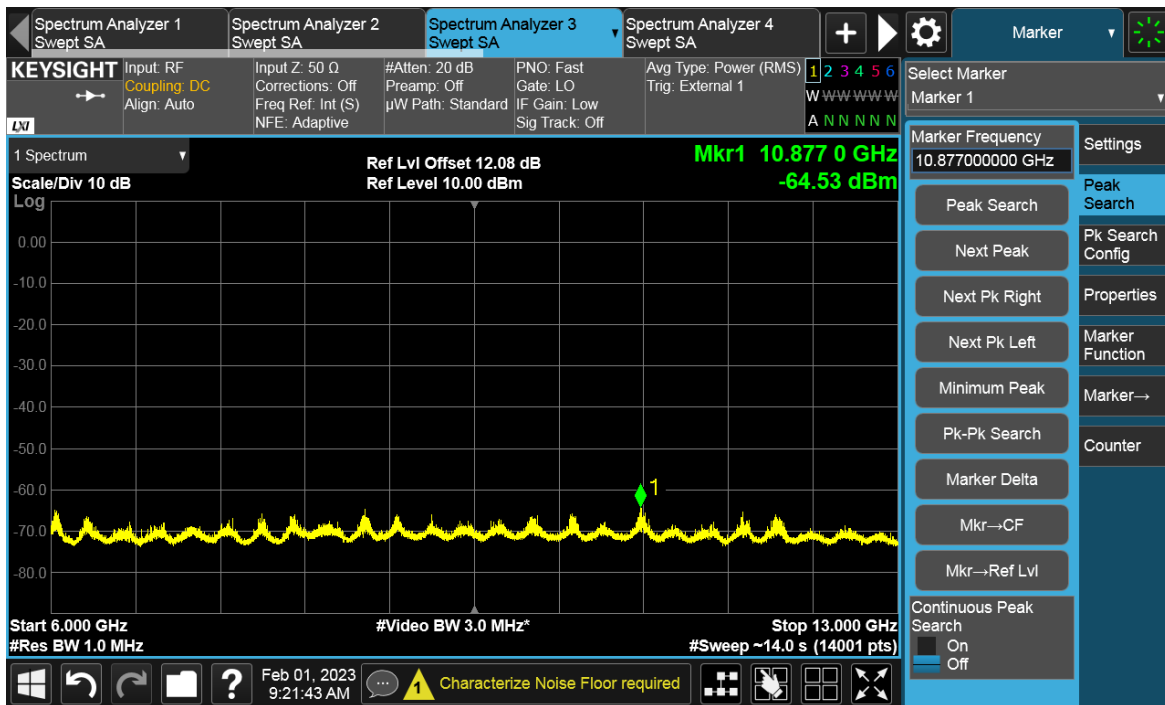
Channel Position B



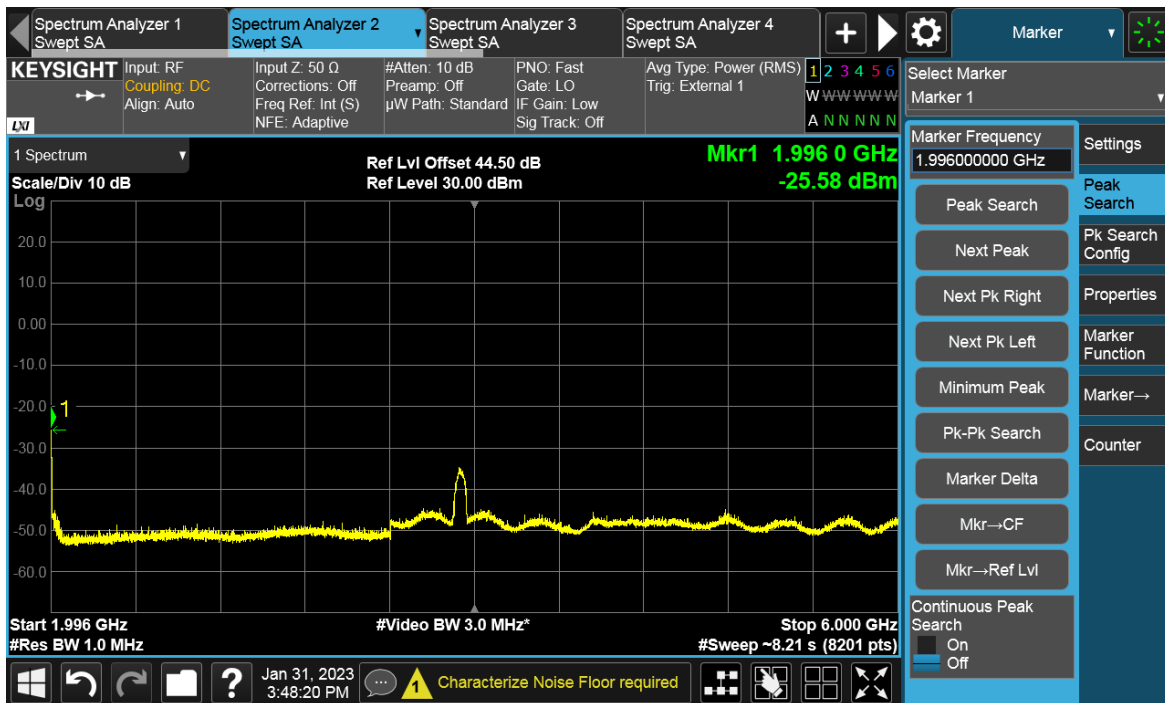
TEST REPORT



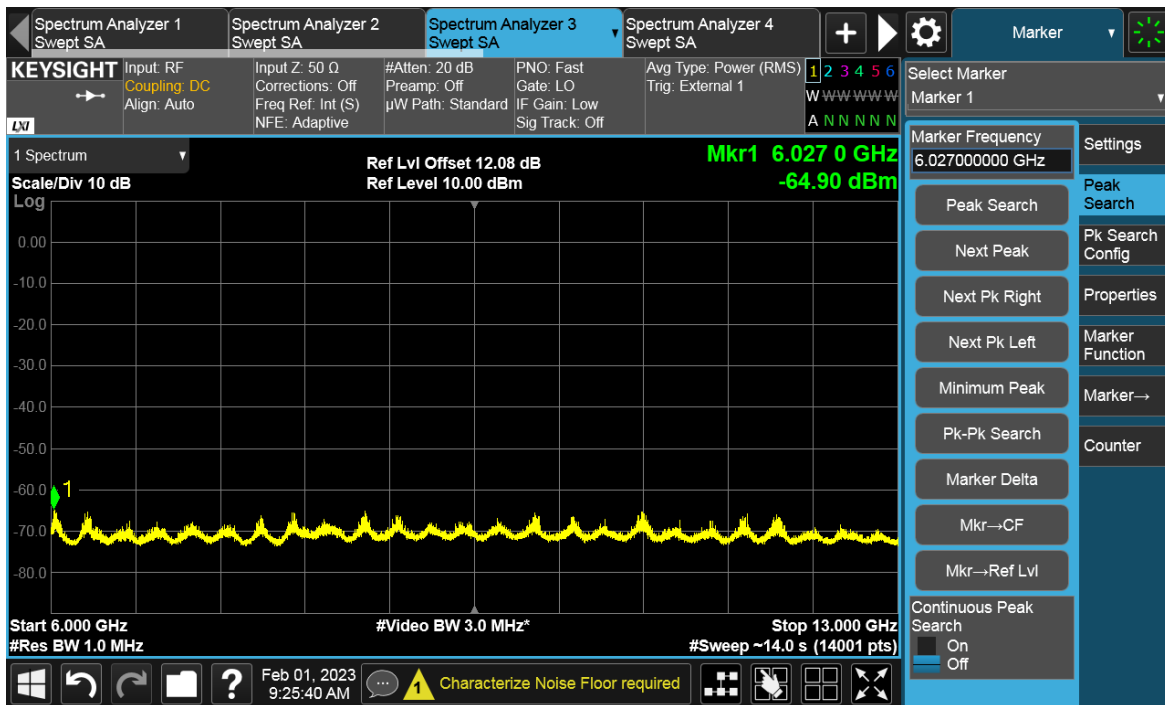
TEST REPORT



Channel Position M

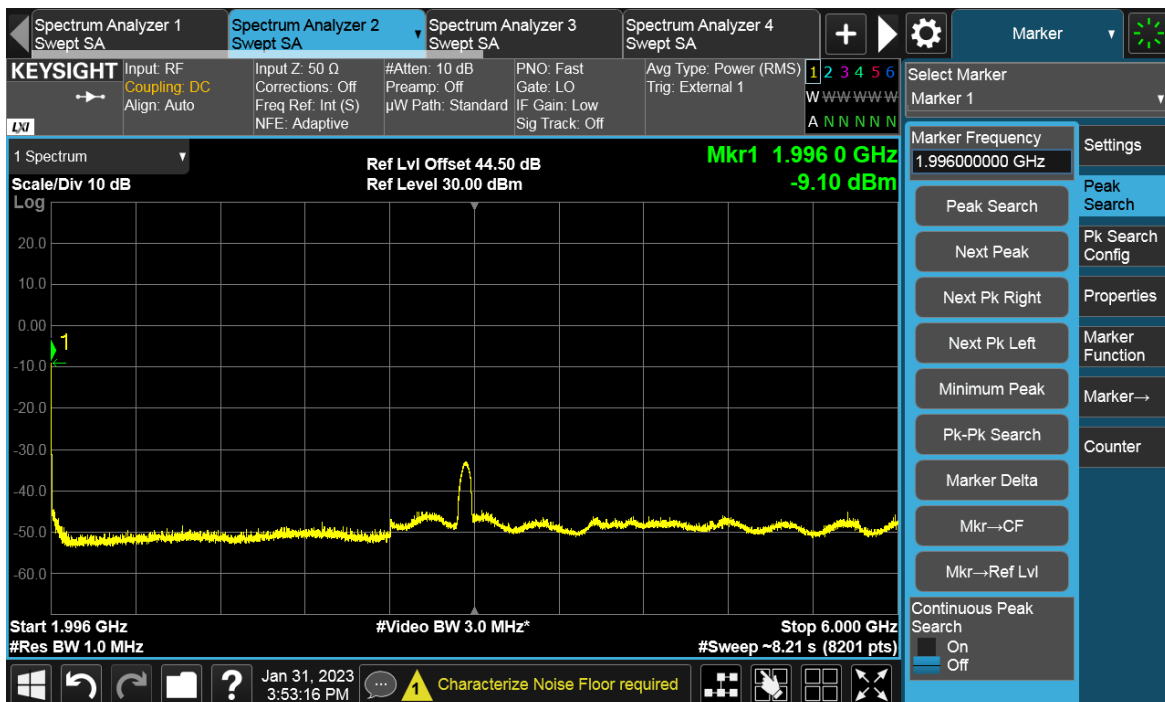


TEST REPORT

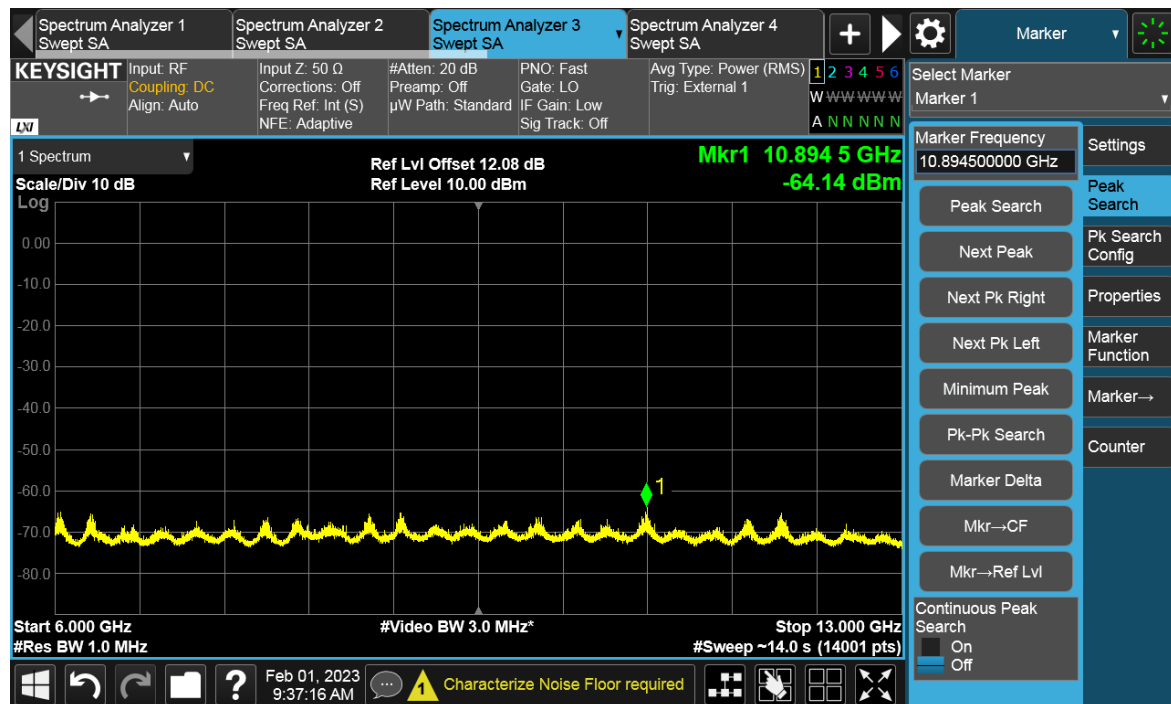
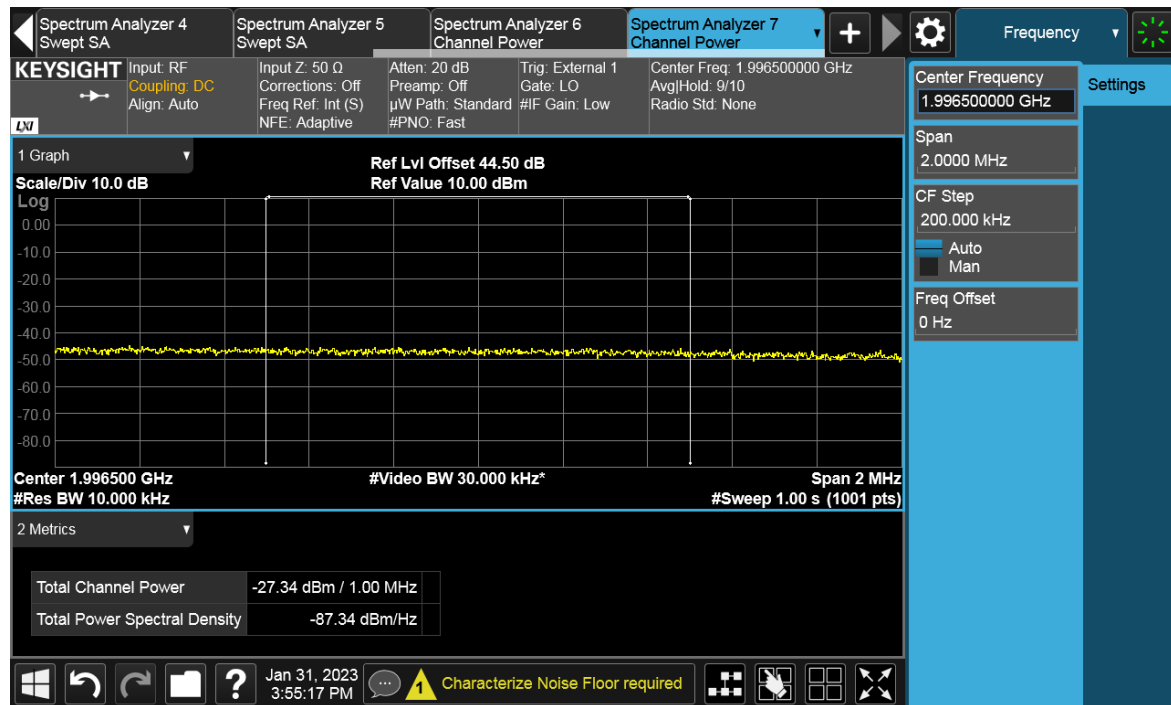


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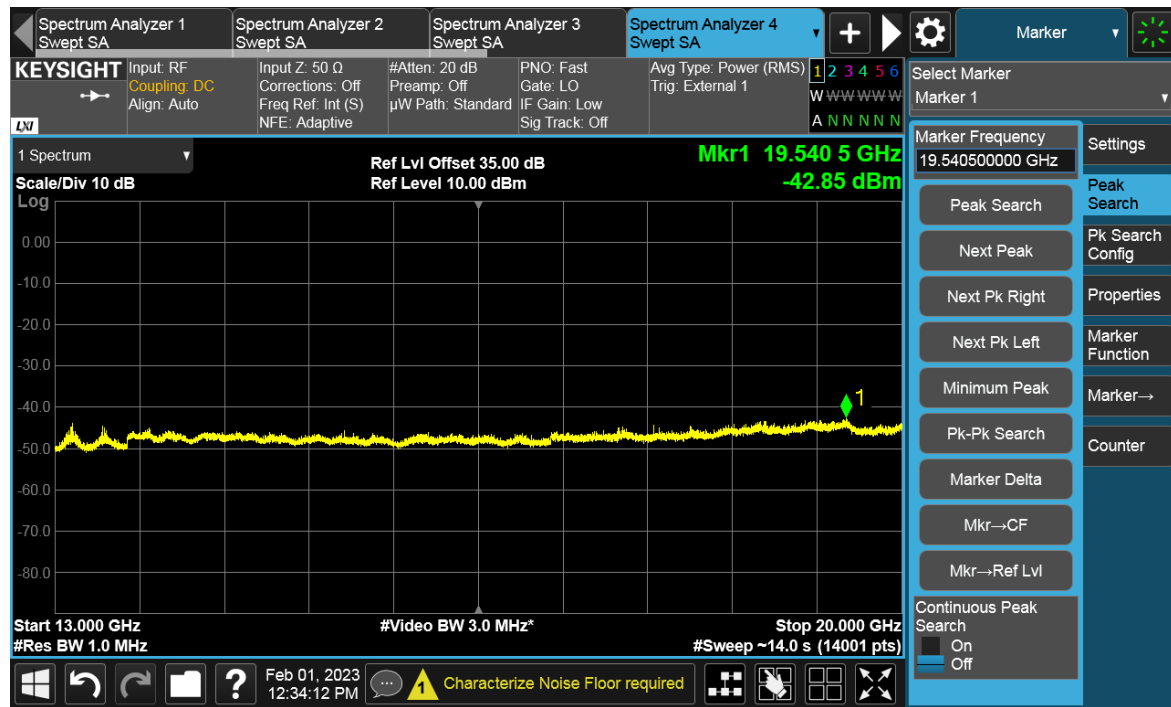
Channel Position T



TEST REPORT



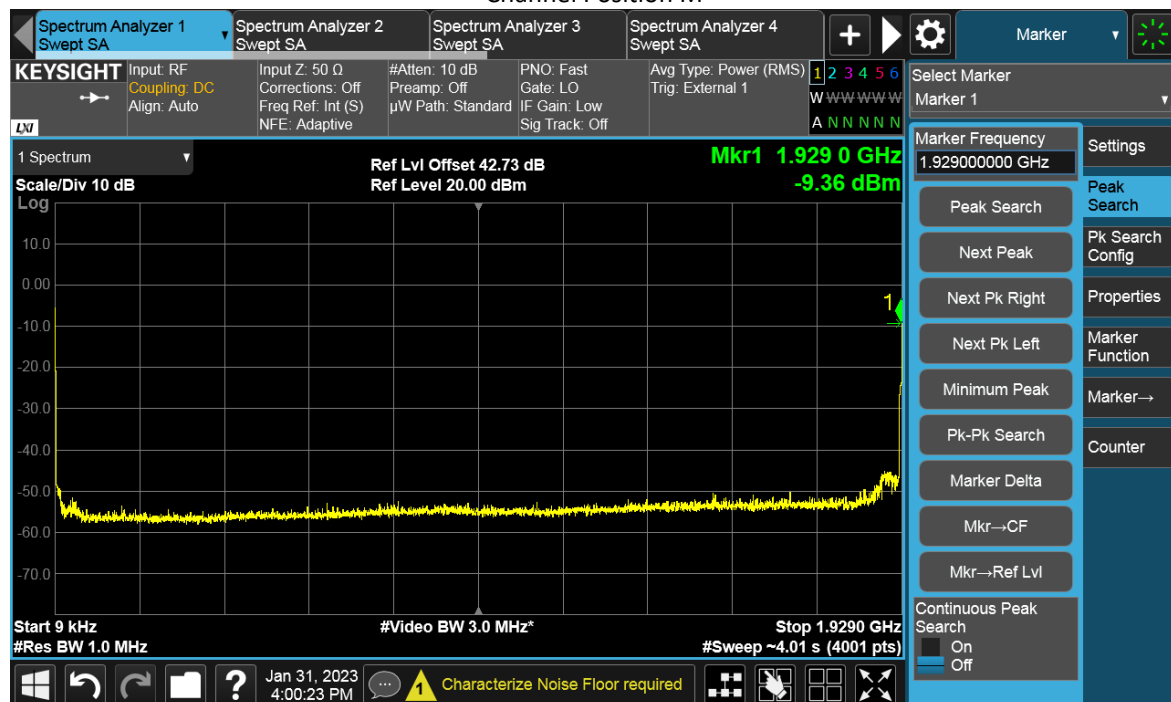
TEST REPORT



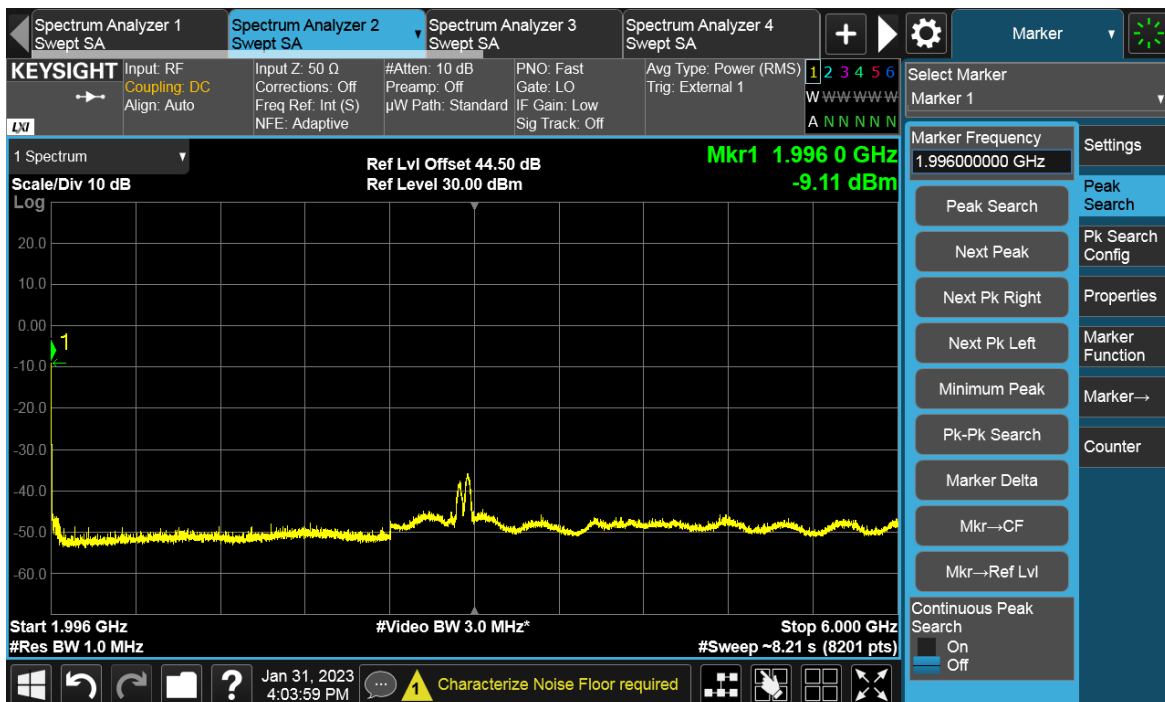
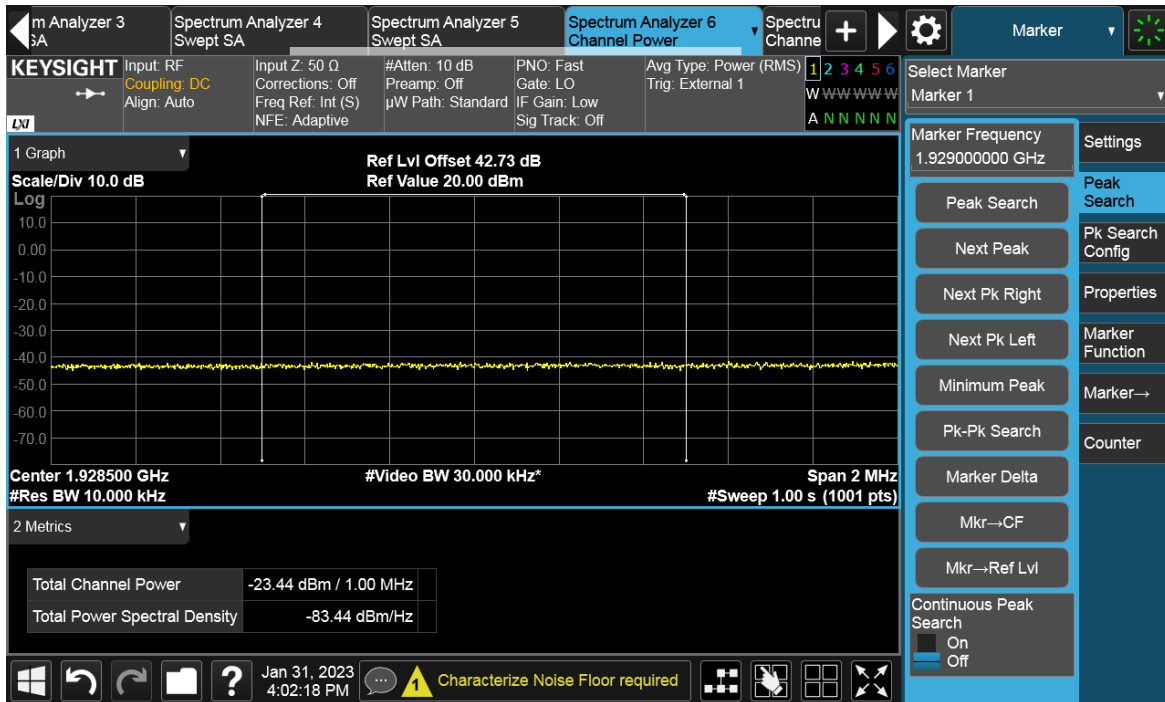
NR-2C

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	M	256QAM	25	1000	-19.02

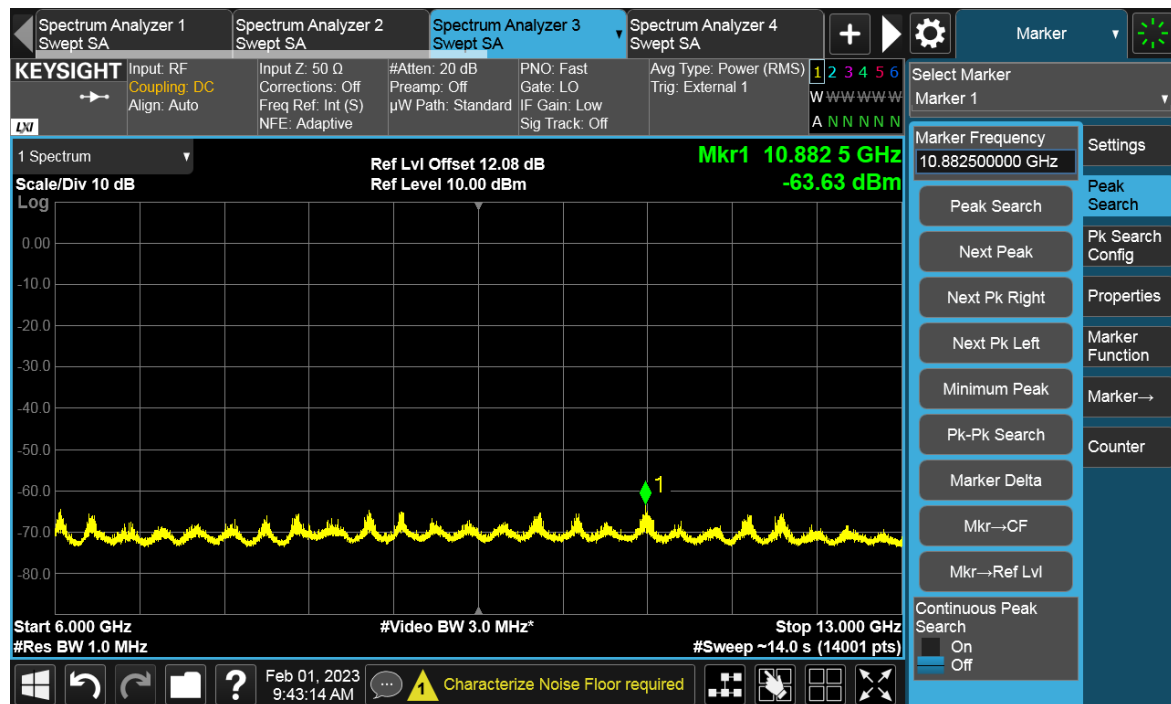
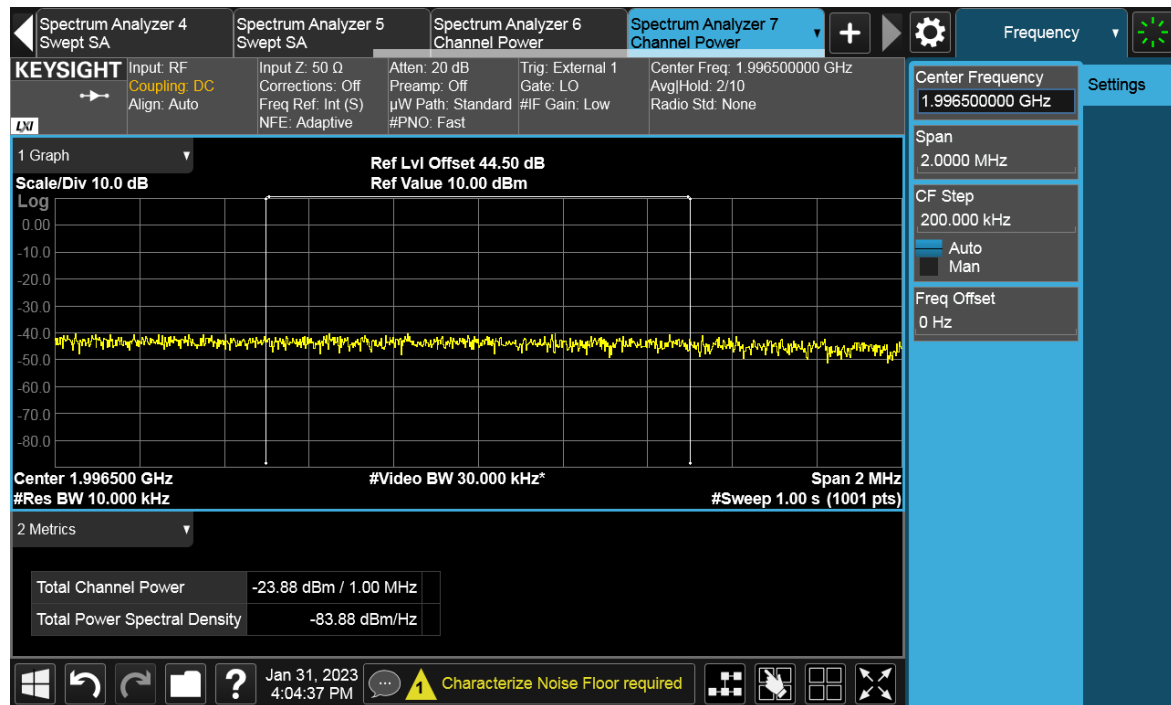
Channel Position M



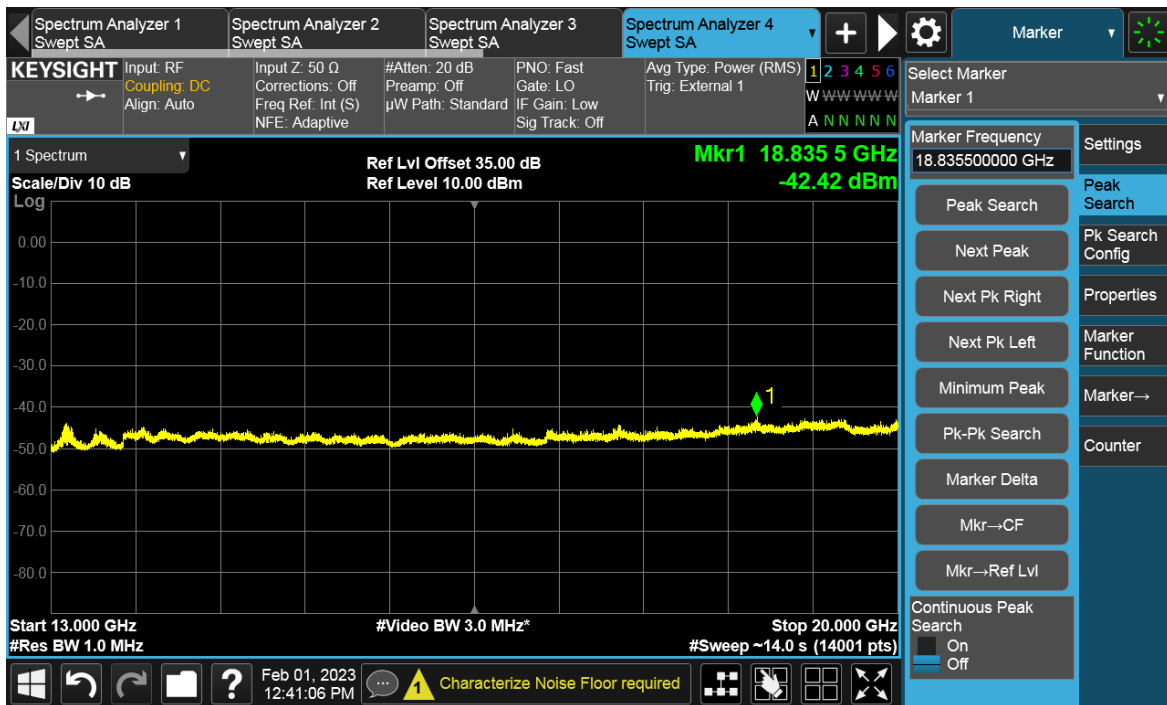
TEST REPORT



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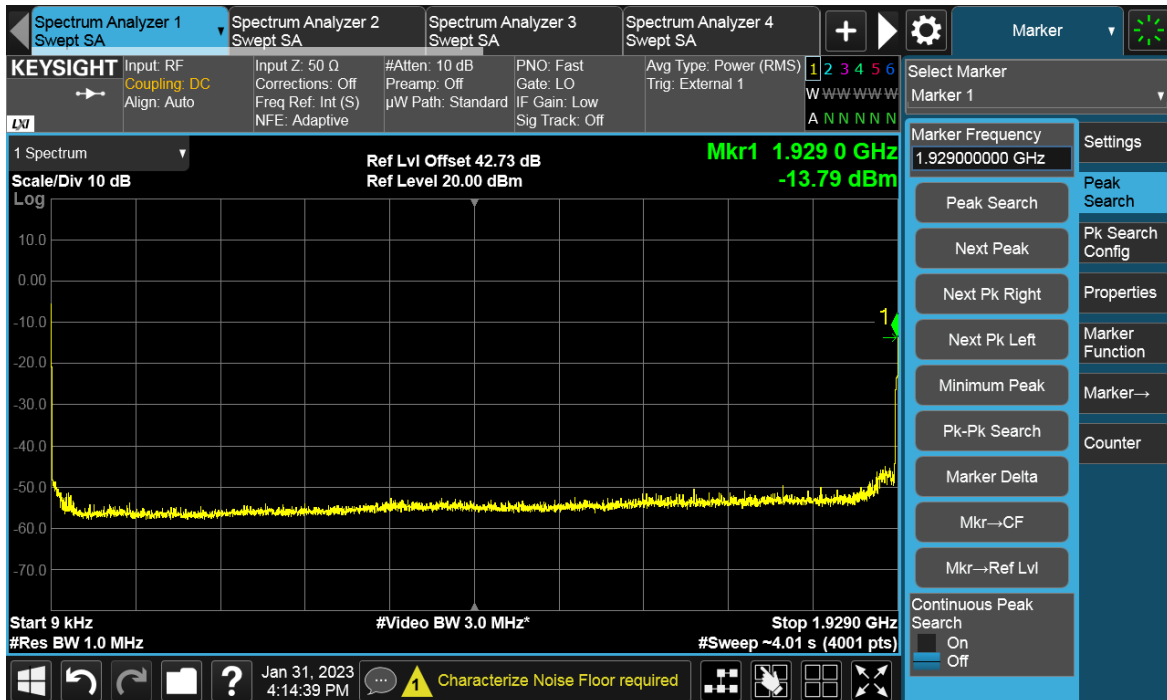


TEST REPORT

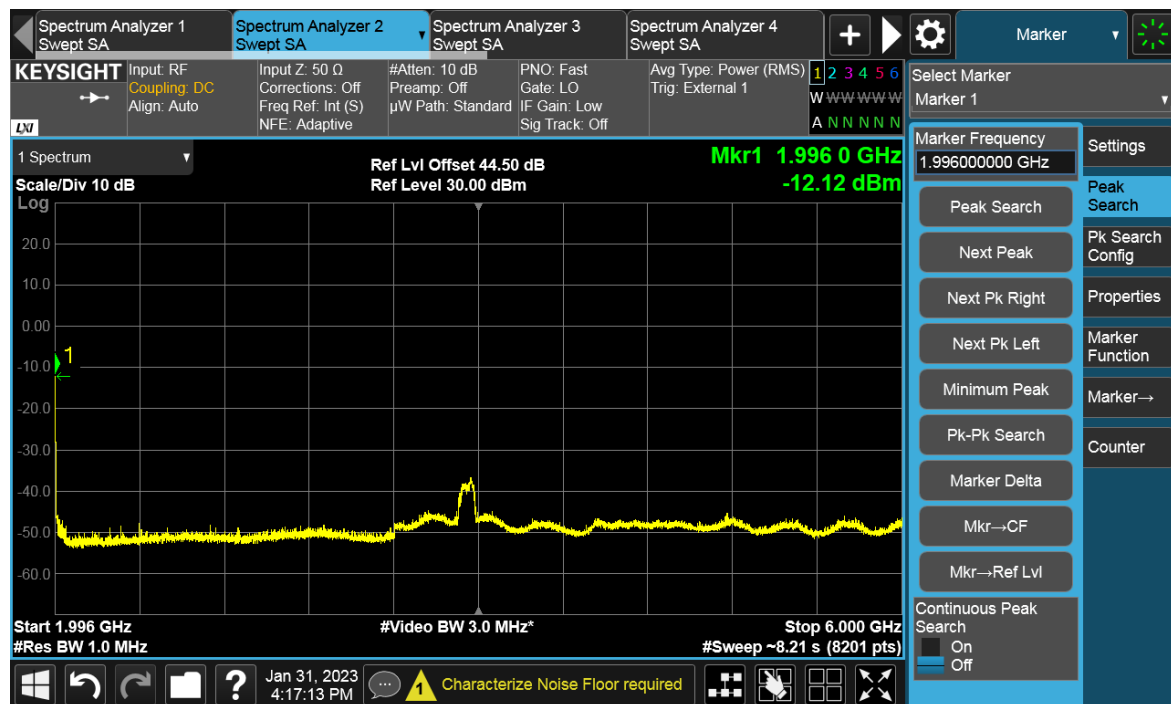
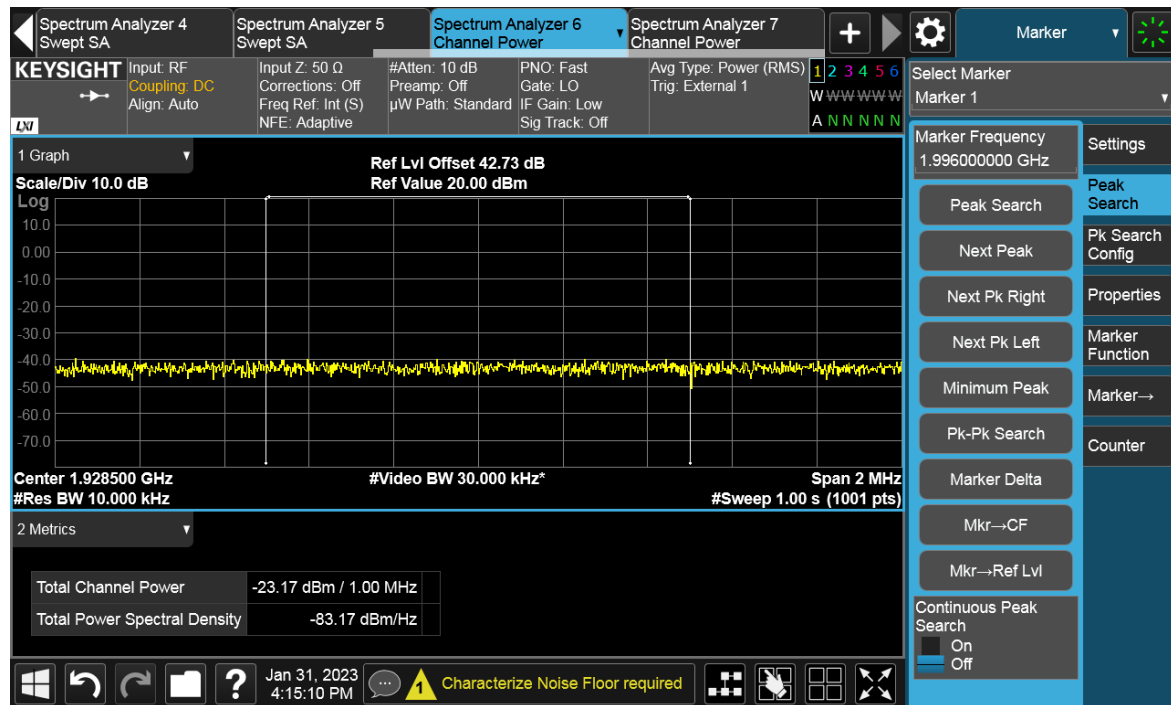


Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
D	M	256QAM	30	1000	-19.02

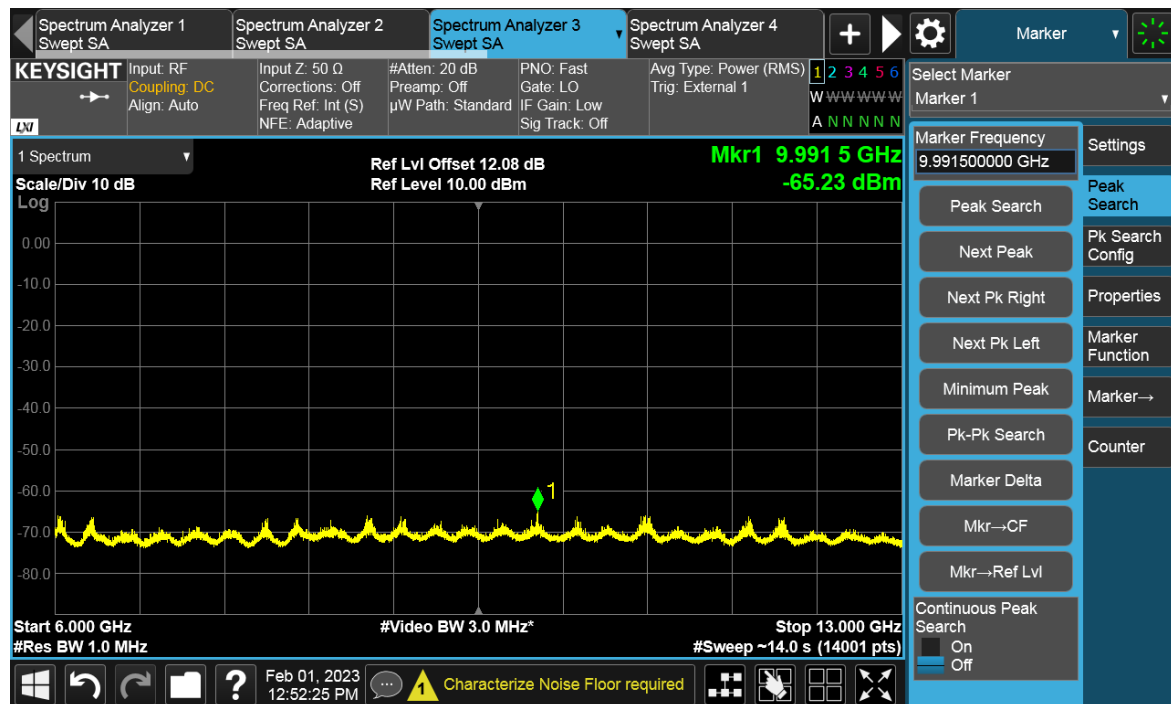
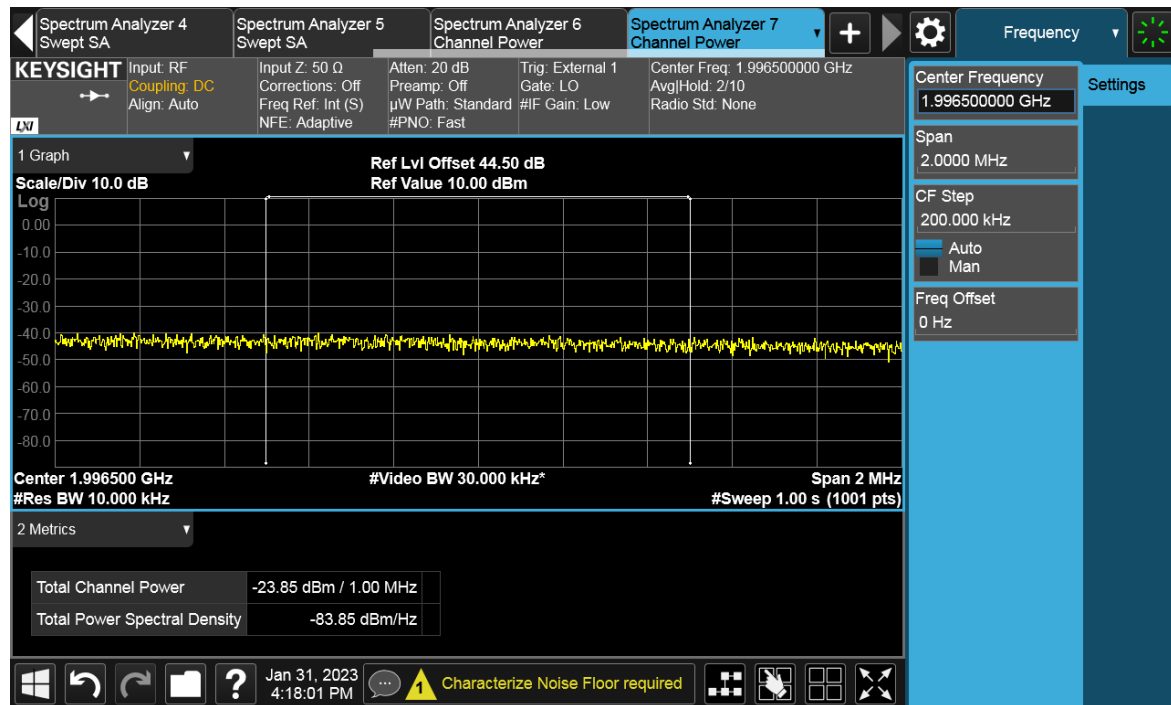
Channel Position M



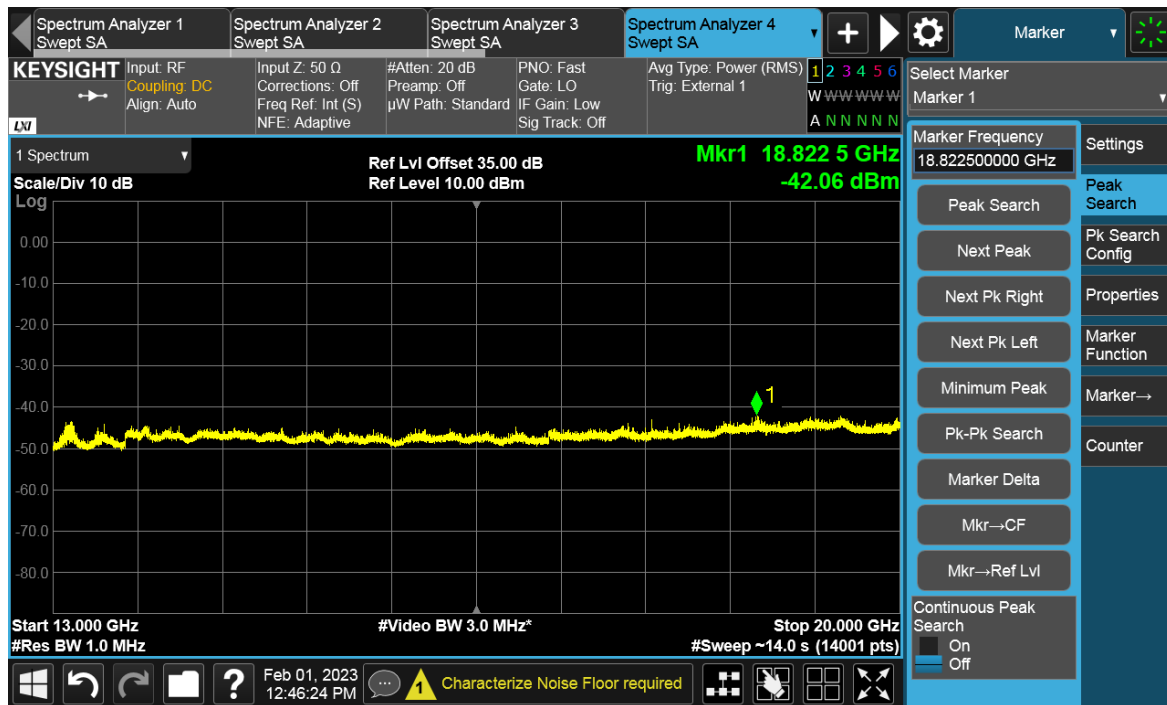
TEST REPORT



TEST REPORT



TEST REPORT



TEST REPORT**7 Frequency Stability****Test result:** **Tested****7.1 Limit**

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

7.2 Measurement Procedure**Temperature Variation**

The EUT was tested over the temperature range -30°C to +50°C in 10°C steps with -48 VDC Power Supply. At each temperature step, the Base Station was configured to transmit at maximum power on the middle channel of the operating band.

Voltage Variation

The EUT was tested at the supplied voltages varied from 85 to 115 percent of the nominal values of -48 VDC. At +20°C, the Base Station was configured to transmit at maximum power on the middle channel of the frequency block.

7.3 Measurement result

Frequency Error – Temperature Variation

NR-1C, Channel Bandwidth: 40MHz

Antenna Port	Modulation	Temperature (°C)	Frequency Stability (Hz)		
			Channel Position B	Channel Position M	Channel Position T
D	256QAM	-30	0.24	0.38	0.18
		-20	0.22	0.75	0.08
		-10	0.67	0.26	0.25
		0	0.19	0.56	0.33
		10	0.22	3.83	1.18
		20	1.45	1.53	2.09
		30	0.17	0.38	0.68
		40	0.86	0.35	0.01
		50	0.57	0.30	0.35

Frequency Error – Voltage Variation

NR-1C, Channel Bandwidth: 40MHz

Antenna Port	Modulation	Temperature (°C)	Supply Voltage (V)	Frequency Stability (Hz)		
				Channel Position B	Channel Position M	Channel Position T
D	256QAM	20	-40.8	1.43	0.56	0.99
			-48.0	1.45	1.53	2.09
			-55.2	0.94	2.23	1.92

***** END *****