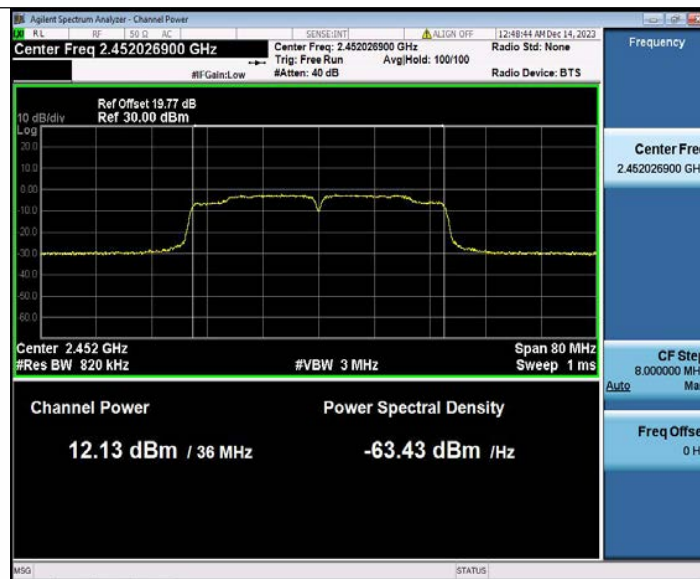
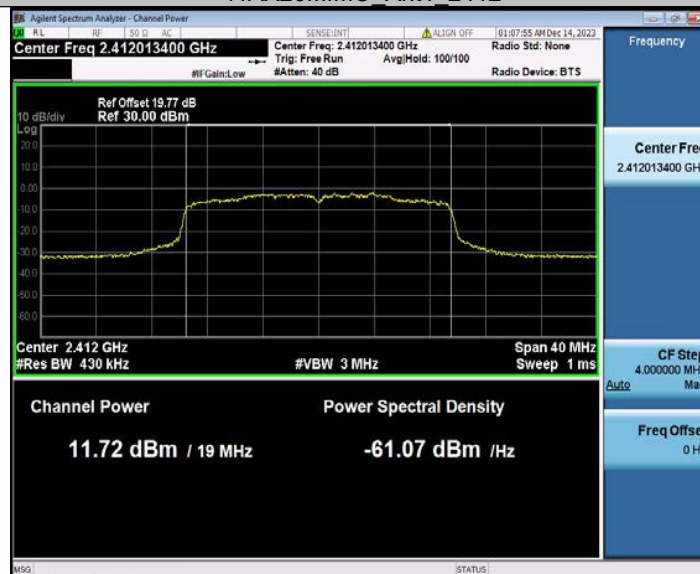




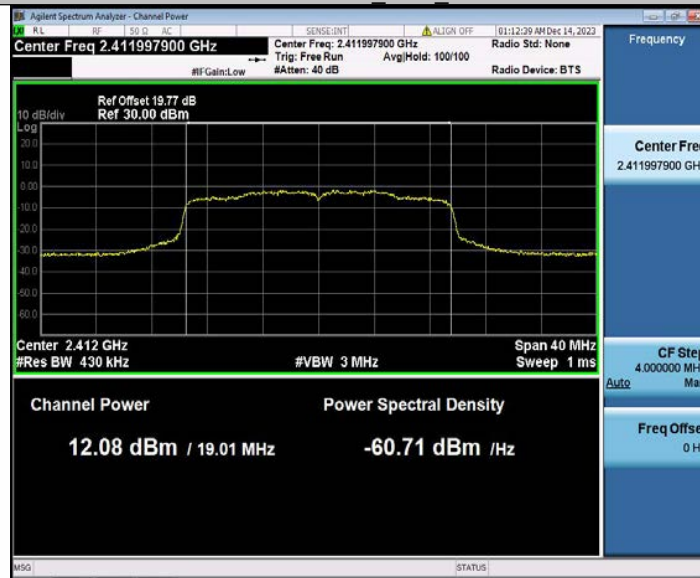
11N40MIMO_Ant2_2452



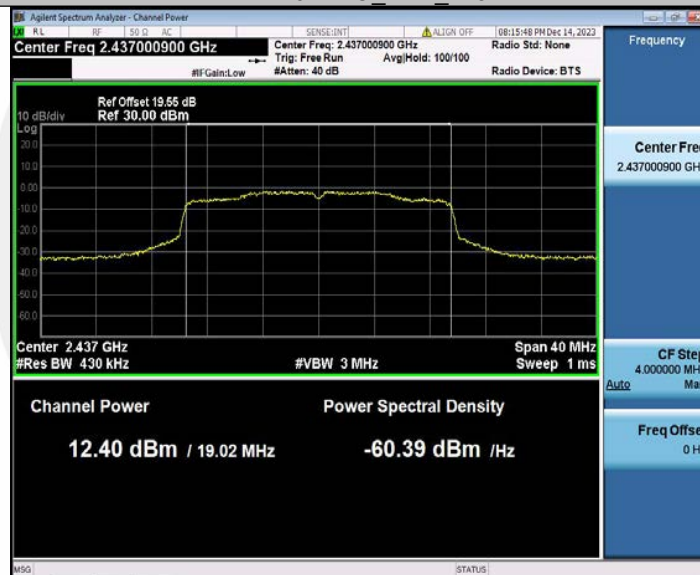
11AX20MIMO_Ant1_2412



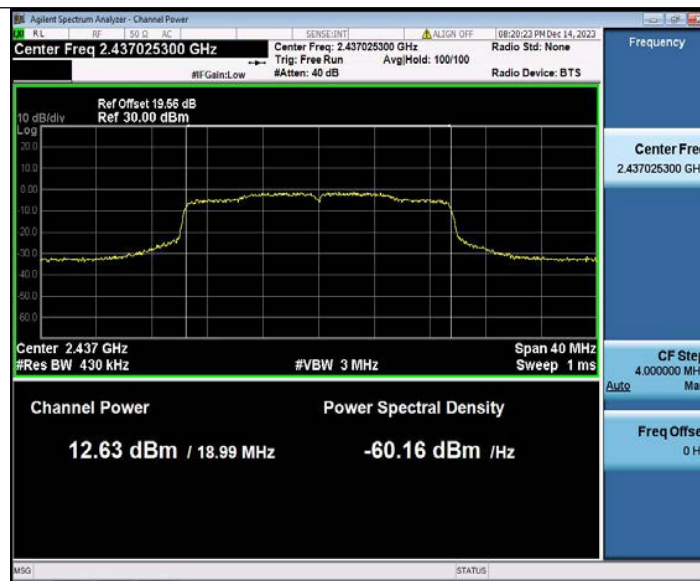
11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



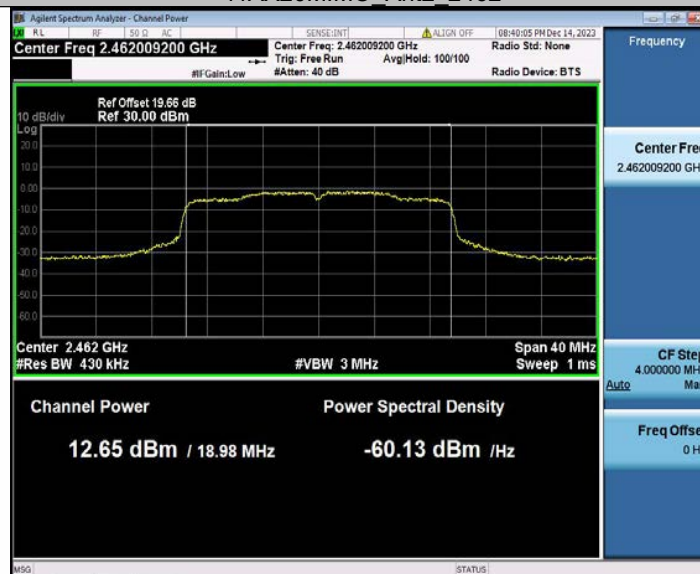
11AX20MIMO_Ant2_2437



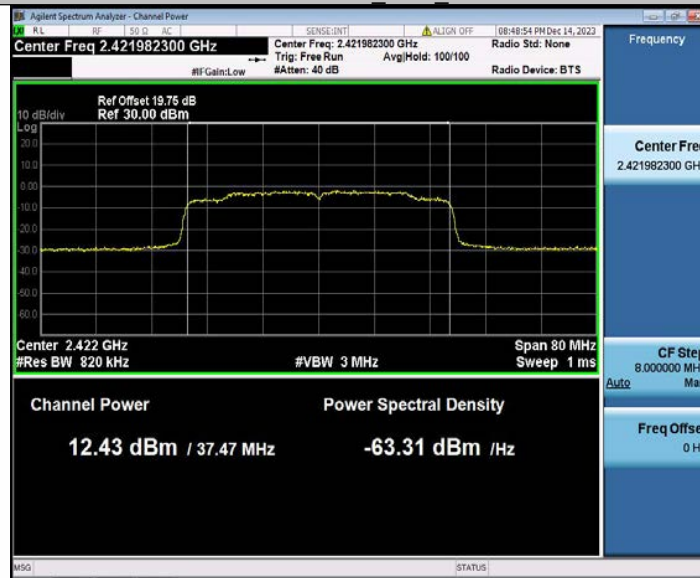
11AX20MIMO_Ant1_2462



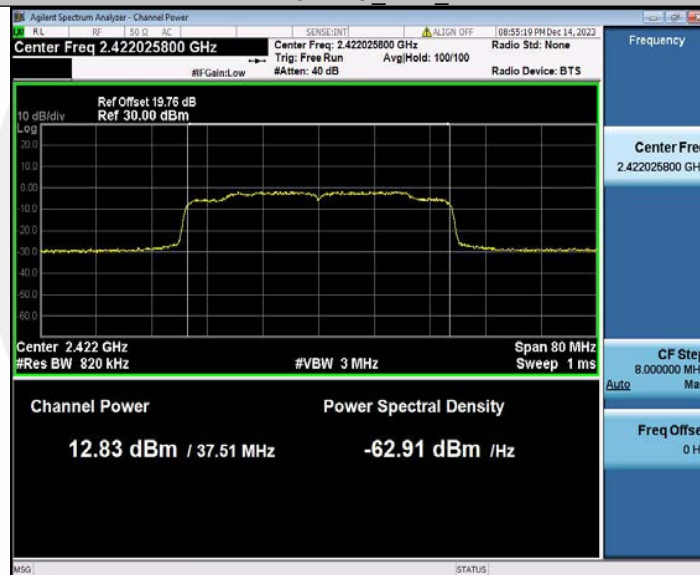
11AX20MIMO_Ant2_2462



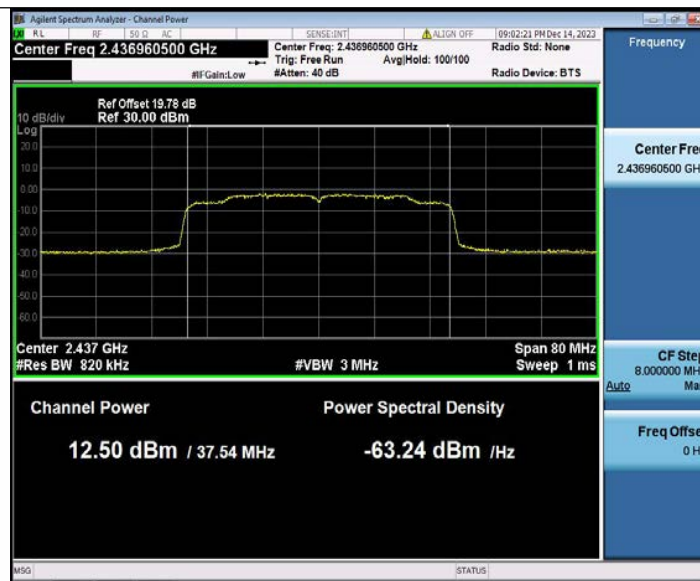
11AX40MIMO_Ant1_2422



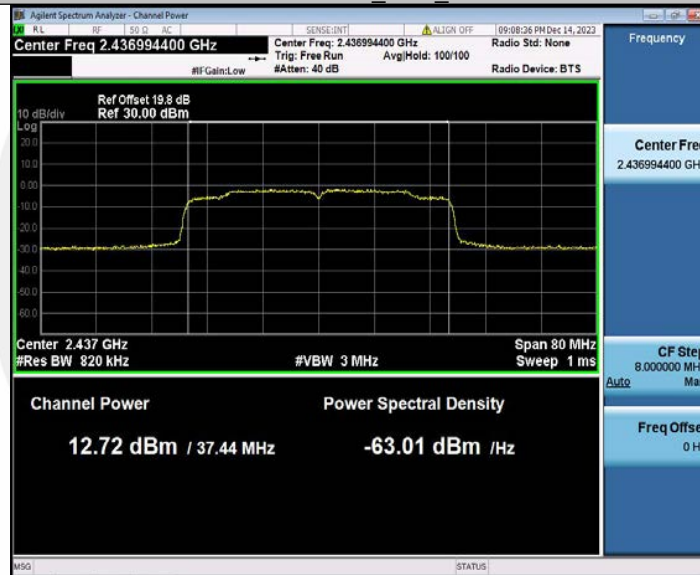
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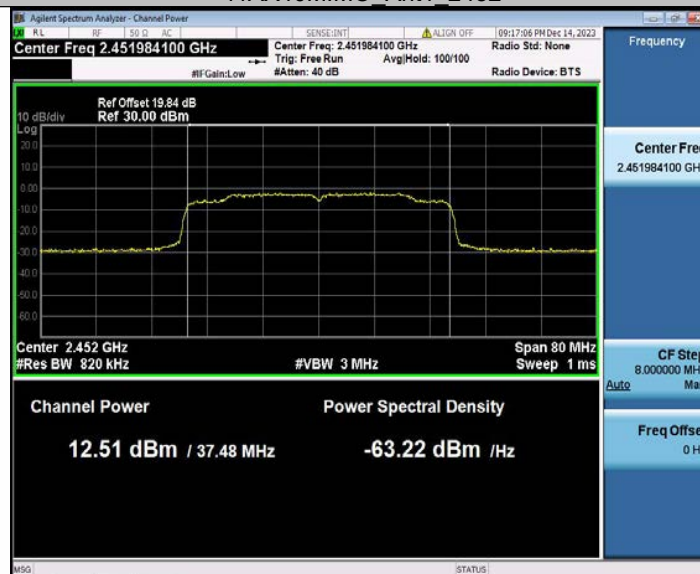
11AX40MIMO_Ant1_2437

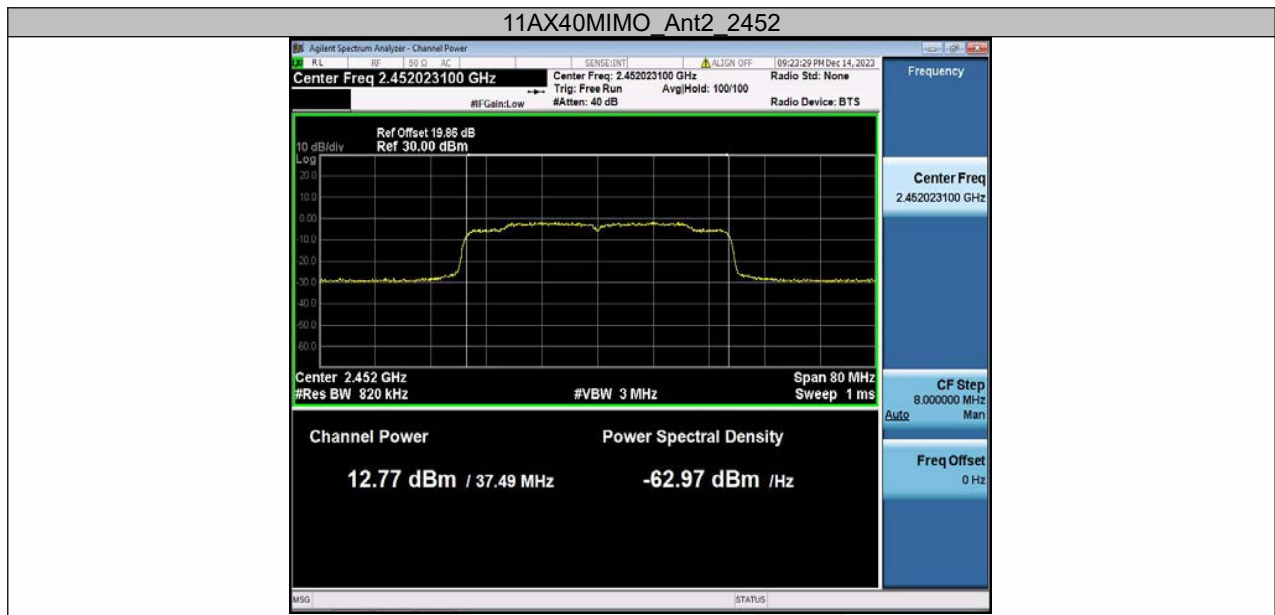


11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452





8.4 MAXIMUM POWER SPECTRAL DENSITY

8.4.1 Applicable Standard

According to FCC Part15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02
According to RSS-247, 5.2(b) and RSS-Gen6.12

8.4.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of section 5.4(d), (i.e. the power spectral density shall be determined using the same method as is used to determine the conducted output power).

8.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.4.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

8.4.5 Test Results

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

Note: N/A

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.57	≤8.00	PASS
	Ant2	2412	-17.55	≤8.00	PASS
	Ant1	2437	-18.39	≤8.00	PASS
	Ant2	2437	-17.72	≤8.00	PASS
	Ant1	2462	-18.02	≤8.00	PASS
11G	Ant2	2462	-17.51	≤8.00	PASS
	Ant1	2412	-17.93	≤8.00	PASS
	Ant2	2412	-17.67	≤8.00	PASS
	Ant1	2437	-18.03	≤8.00	PASS
	Ant2	2437	-16.89	≤8.00	PASS
11N20MIMO	Ant1	2462	-18.23	≤8.00	PASS
	Ant2	2462	-17.25	≤8.00	PASS
	Ant1	2412	-19.22	≤8.00	PASS
	Ant2	2412	-18.41	≤8.00	PASS
	total	2412	-15.79	≤8.00	PASS
	Ant1	2437	-18.35	≤8.00	PASS
	Ant2	2437	-18.48	≤8.00	PASS
	total	2437	-15.40	≤8.00	PASS
11N40MIMO	Ant1	2462	-19.09	≤8.00	PASS
	Ant2	2462	-17.84	≤8.00	PASS
	total	2462	-15.41	≤8.00	PASS
	Ant1	2422	-21.71	≤8.00	PASS
	Ant2	2422	-21.30	≤8.00	PASS
	total	2422	-18.49	≤8.00	PASS
	Ant1	2437	-21.80	≤8.00	PASS
	Ant2	2437	-21.39	≤8.00	PASS
11AX20MIMO	total	2437	-18.58	≤8.00	PASS
	Ant1	2452	-21.38	≤8.00	PASS
	Ant2	2452	-21.54	≤8.00	PASS
	total	2452	-18.45	≤8.00	PASS
	Ant1	2412	-17.91	≤8.00	PASS
	Ant2	2412	-19.44	≤8.00	PASS
	total	2412	-15.60	≤8.00	PASS
	Ant1	2437	-18.76	≤8.00	PASS
11AX40MIMO	Ant2	2437	-19.16	≤8.00	PASS
	total	2437	-15.95	≤8.00	PASS
	Ant1	2462	-19.65	≤8.00	PASS
	Ant2	2462	-19.32	≤8.00	PASS
	total	2462	-16.47	≤8.00	PASS
	Ant1	2422	-21.97	≤8.00	PASS
	Ant2	2422	-21.59	≤8.00	PASS
	total	2422	-18.77	≤8.00	PASS
11AX20MIMO	Ant1	2437	-22.42	≤8.00	PASS
	Ant2	2437	-21.82	≤8.00	PASS
	total	2437	-19.10	≤8.00	PASS
	Ant1	2452	-21.49	≤8.00	PASS
	Ant2	2452	-22.16	≤8.00	PASS
	total	2452	-18.80	≤8.00	PASS
	Ant1	2412	-18.57	≤8.00	PASS
	Ant2	2412	-17.55	≤8.00	PASS

11B_Ant1_2412



11B_Ant2_2412



11B_Ant1_2437



11B Ant2 2437



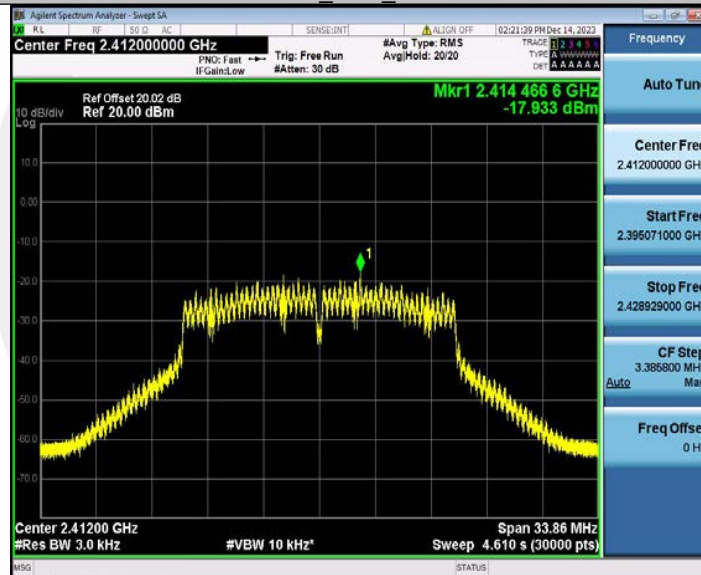
11B Ant1 2462



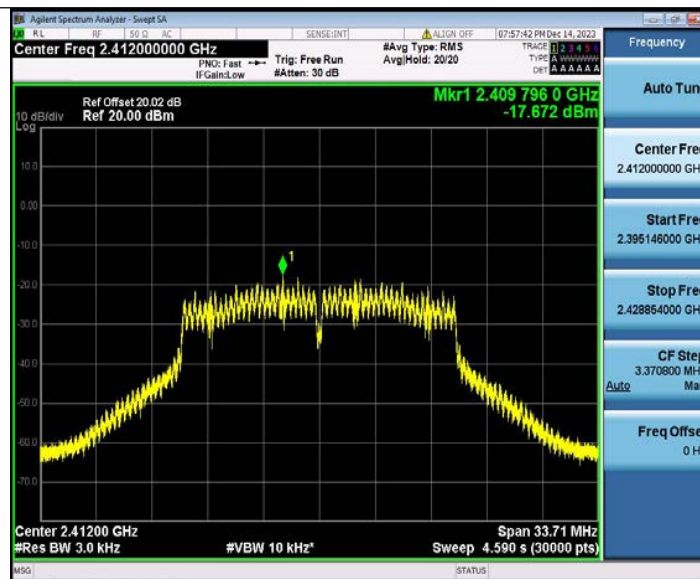
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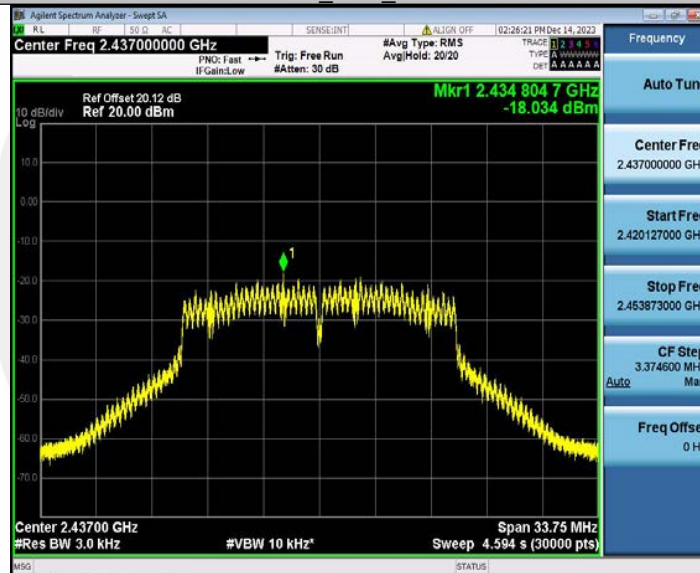
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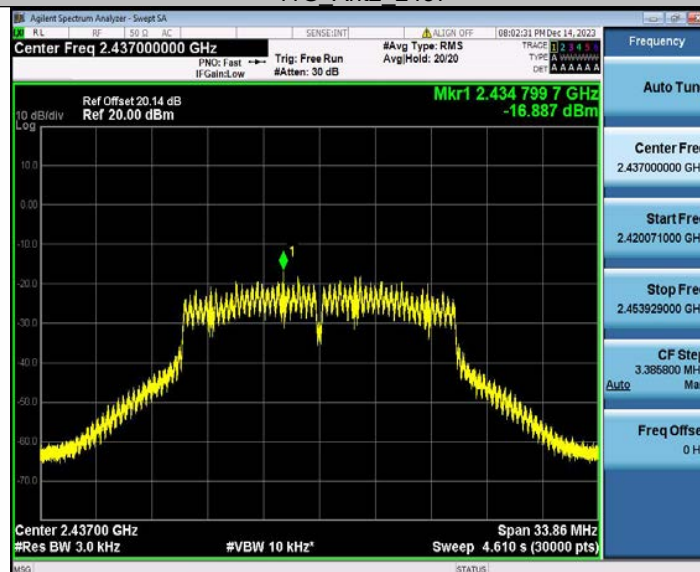
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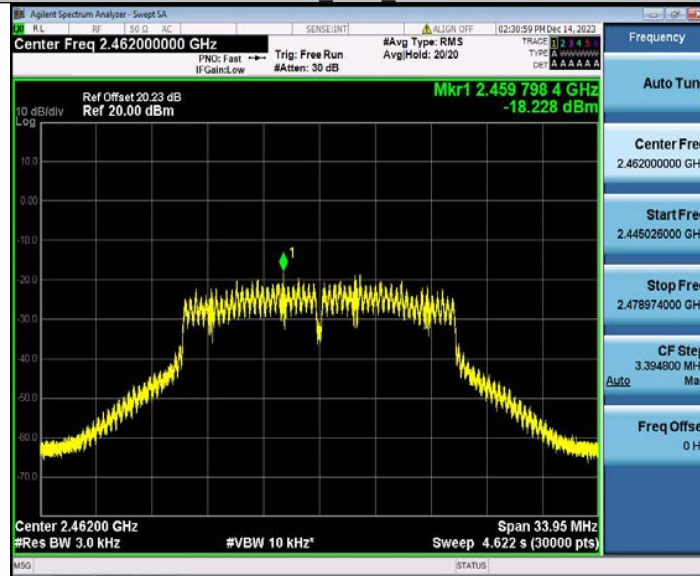
11G Ant1_2437



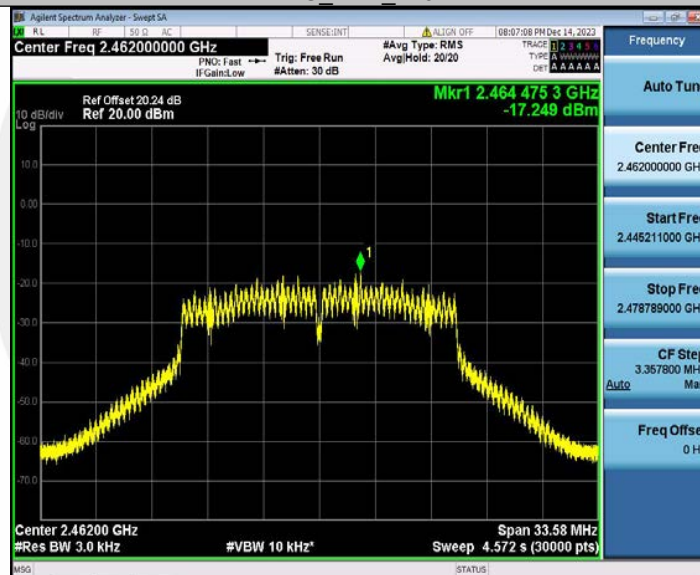
11G Ant2_2437



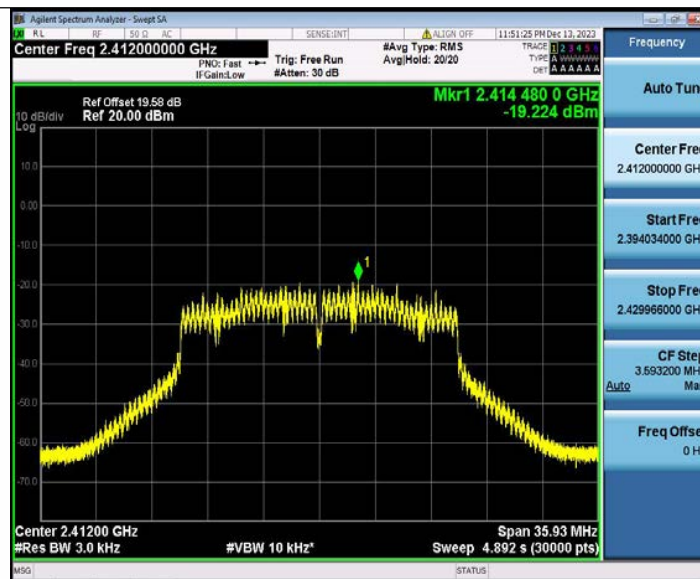
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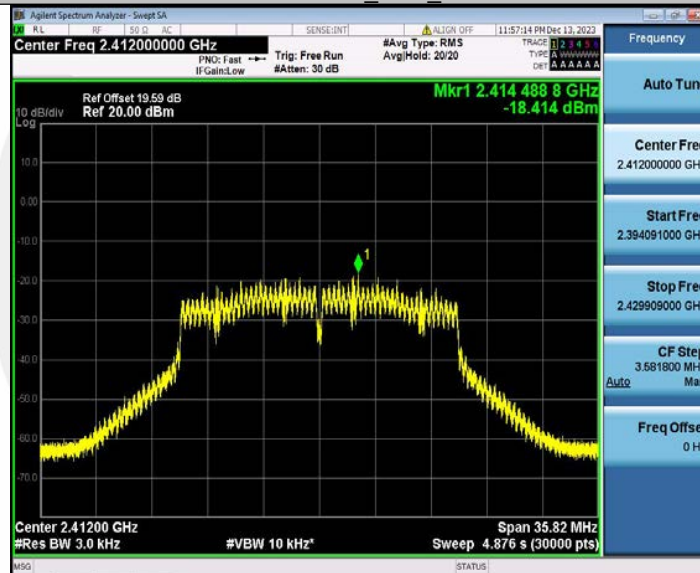
11G_Ant2_2462



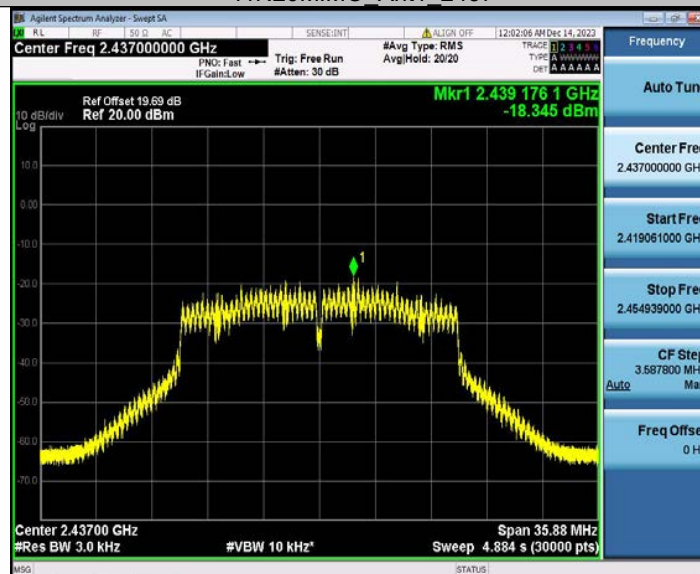
11N20MIMO_Ant1_2412



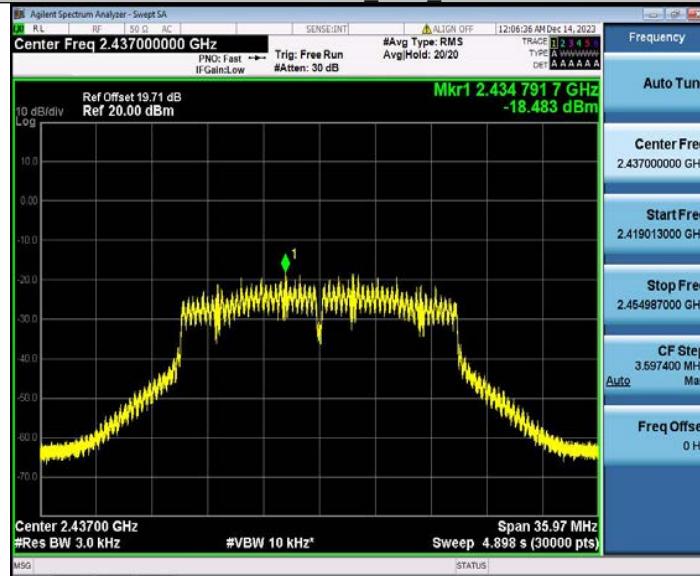
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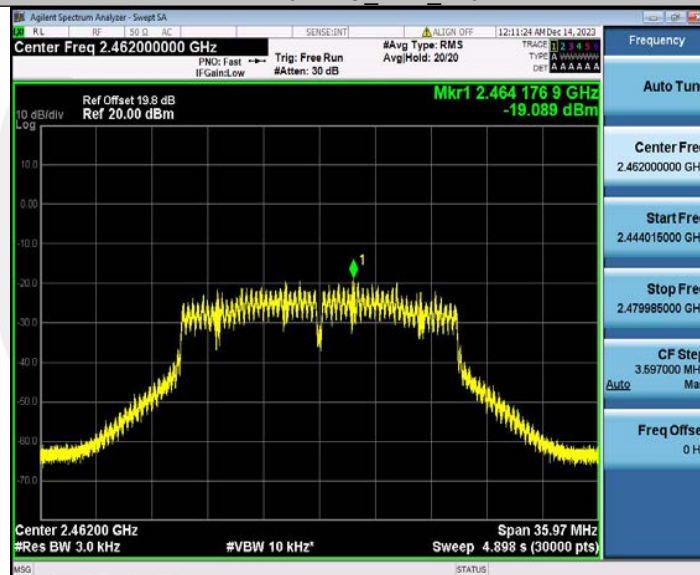
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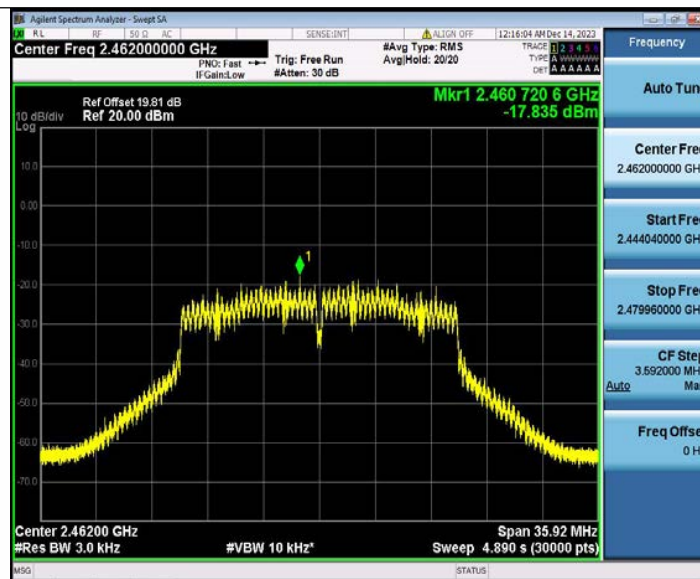
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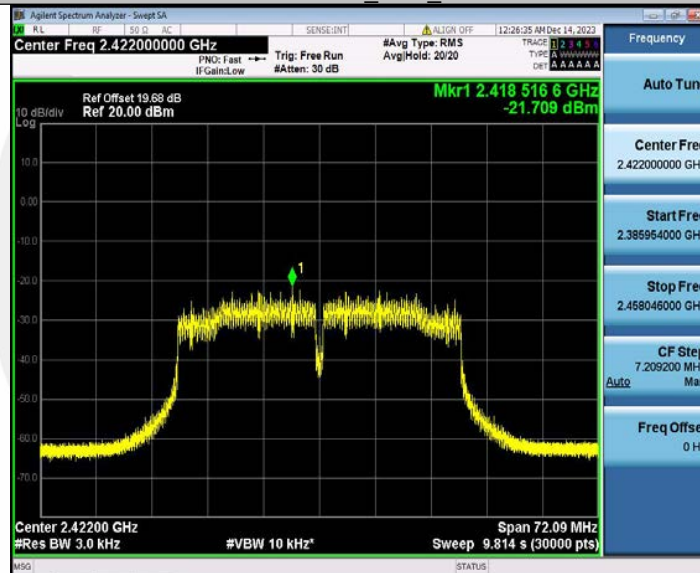
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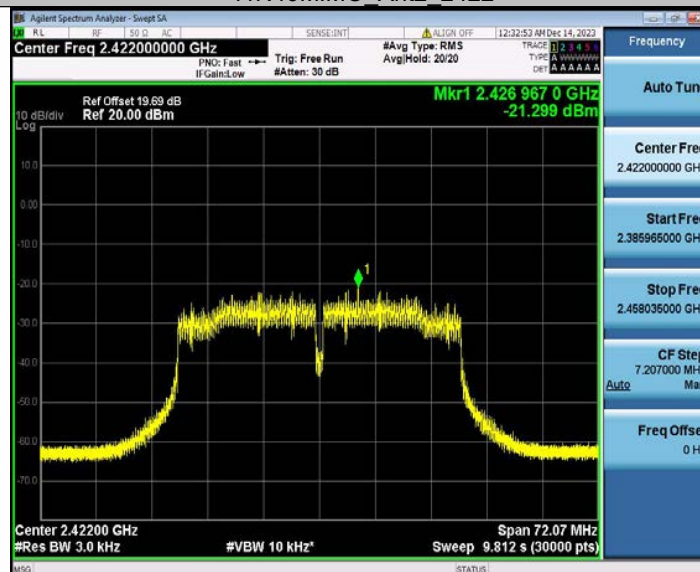
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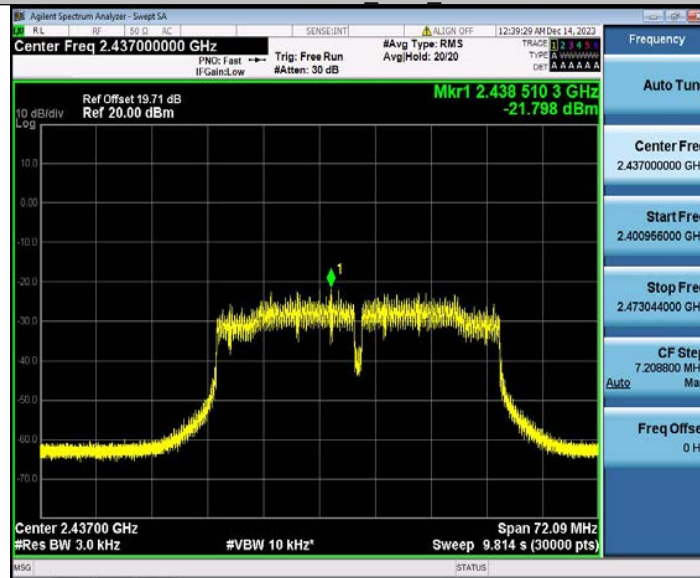
11N40MIMO_Ant1_2422



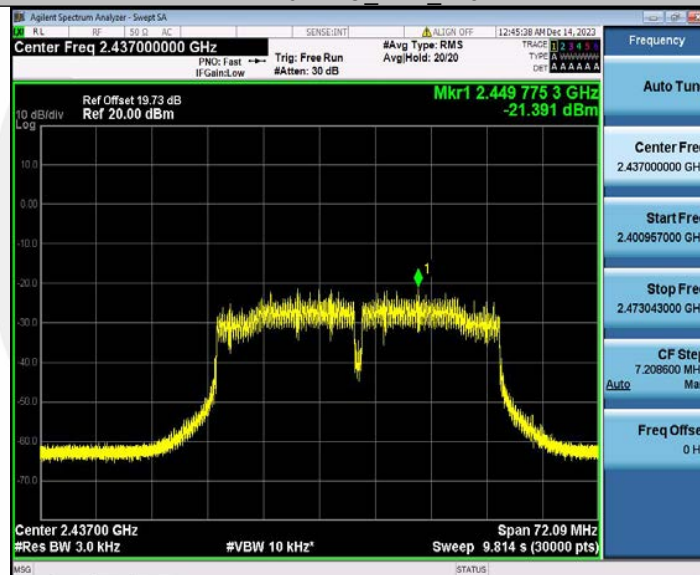
11N40MIMO_Ant2_2422



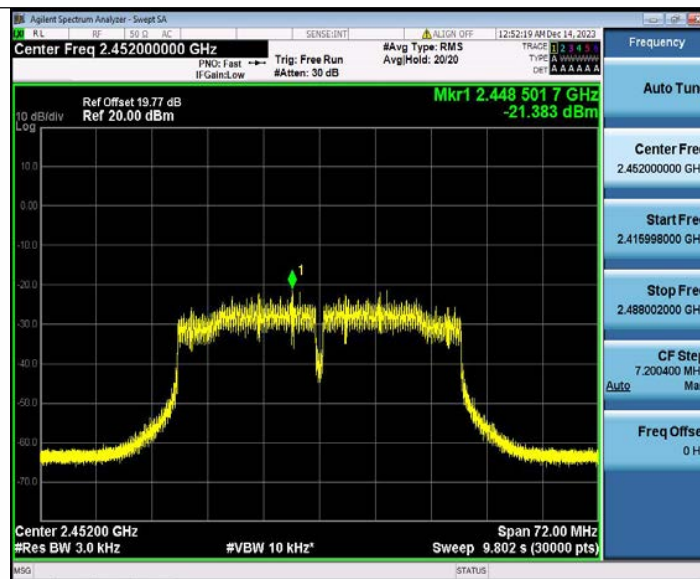
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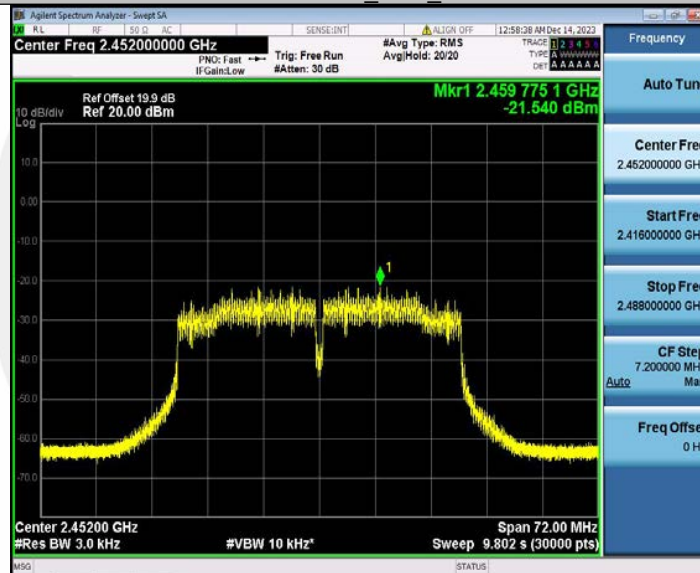
11N40MIMO_Ant2_2437



11N40MIMO_Ant1_2452



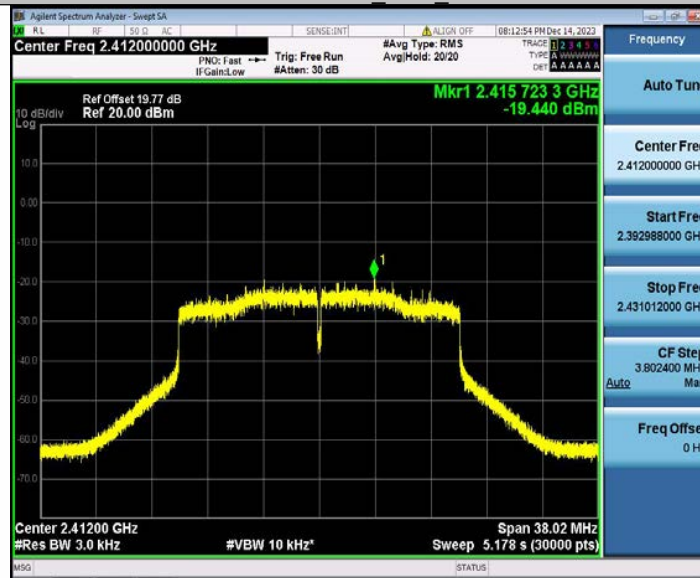
11N40MIMO_Ant2_2452



11AX20MIMO_Ant1_2412



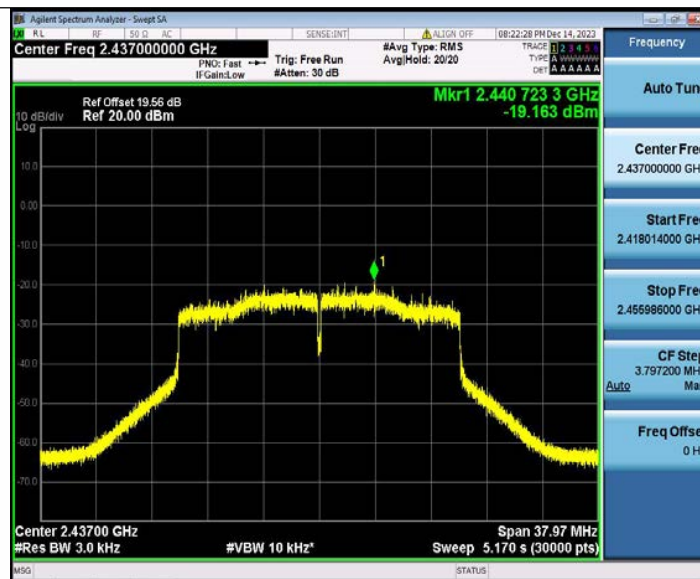
11AX20MIMO_Ant2_2412



11AX20MIMO_Ant1_2437



11AX20MIMO_Ant2_2437



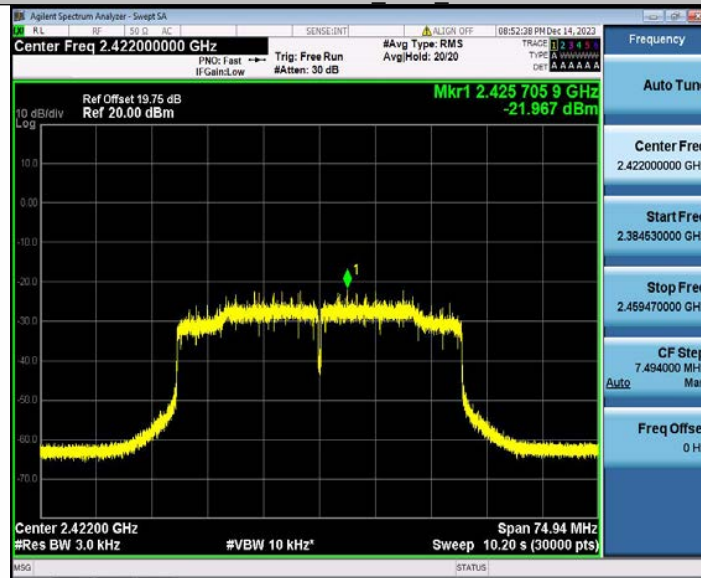
11AX20MIMO_Ant1_2462



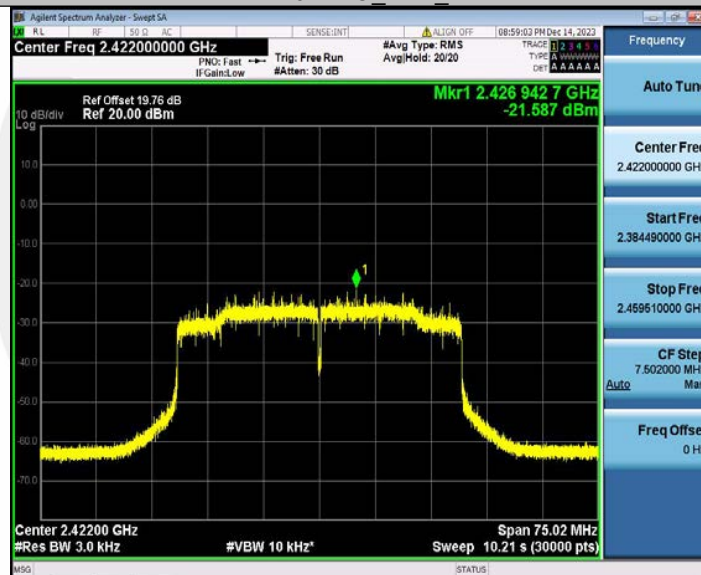
11AX20MIMO_Ant2_2462



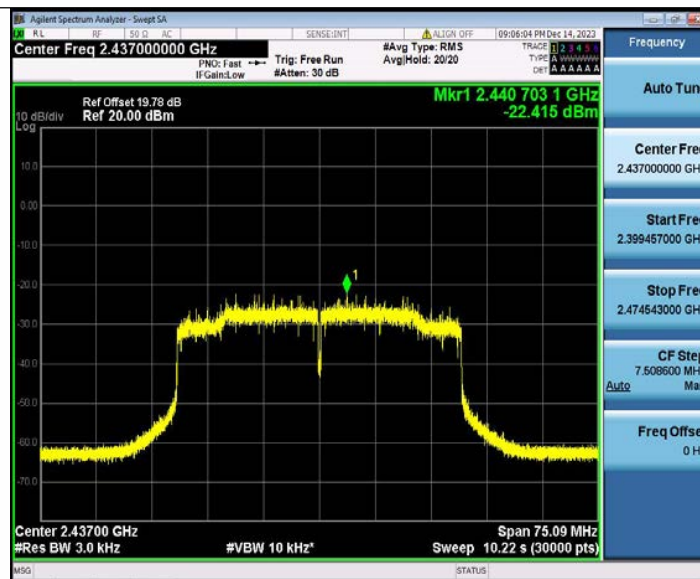
11AX40MIMO_Ant1_2422



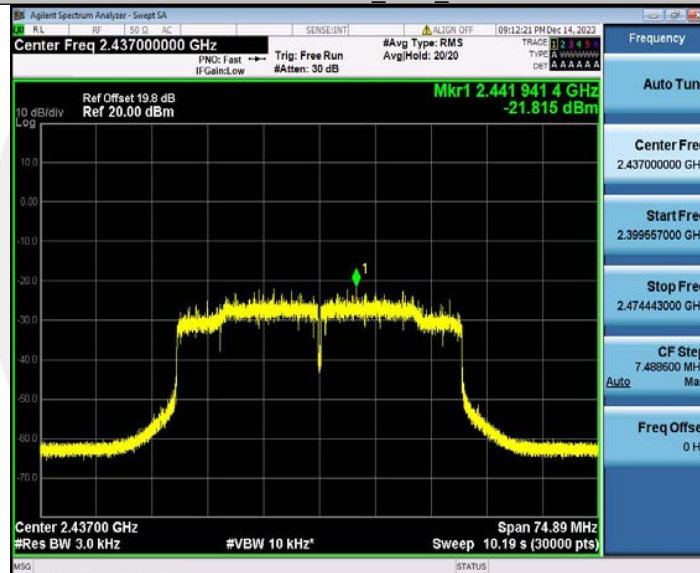
11AX40MIMO_Ant2_2422



11AX40MIMO_Ant1_2437

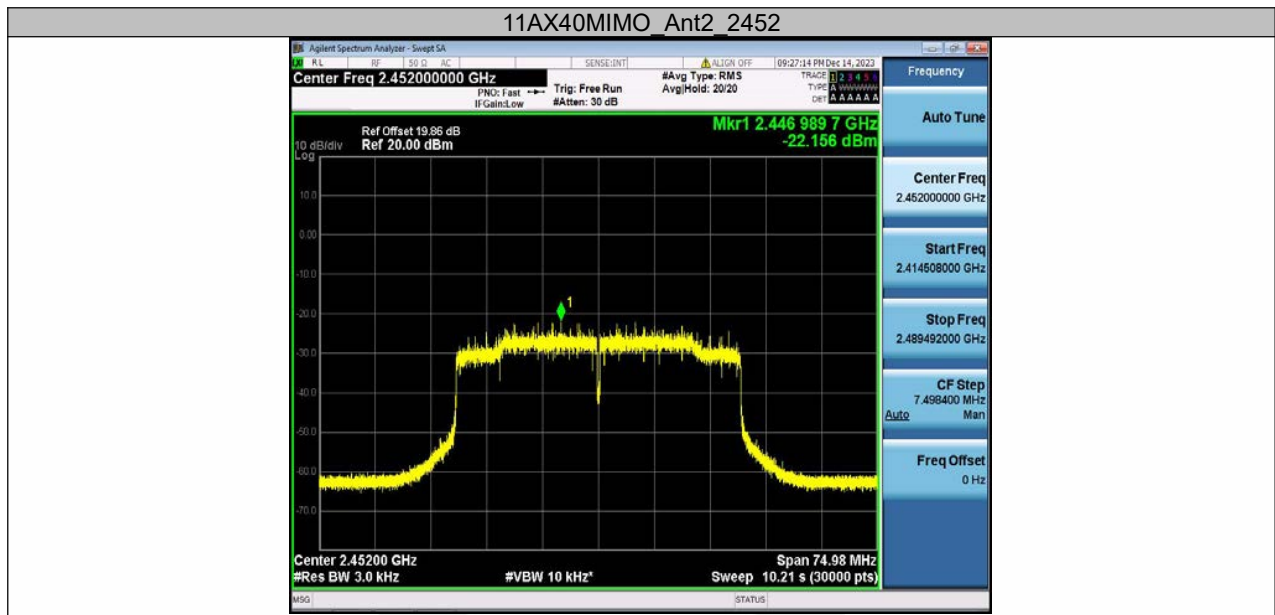


11AX40MIMO_Ant2_2437



11AX40MIMO_Ant1_2452





8.5 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

8.5.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02
According to RSS-247, 5.5

8.5.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

8.5.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.5.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW $\geq 1\%$ of the span = 100 kHz Set VBW $\geq 3 \times$ RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

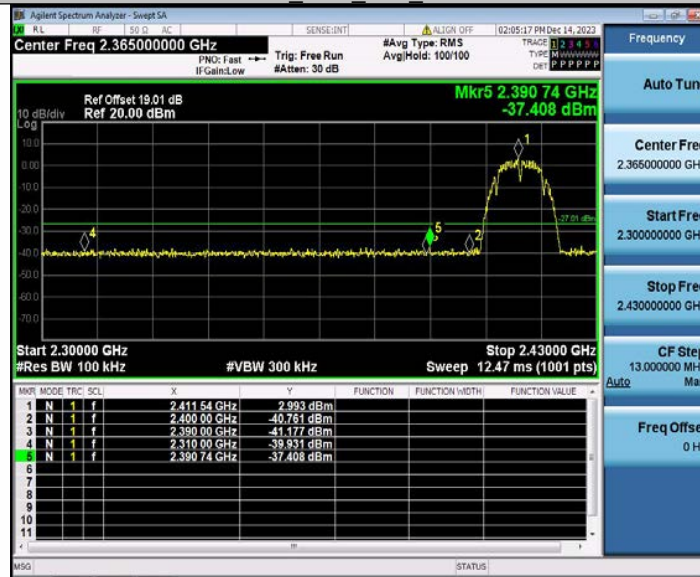
8.5.5 Test Results

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

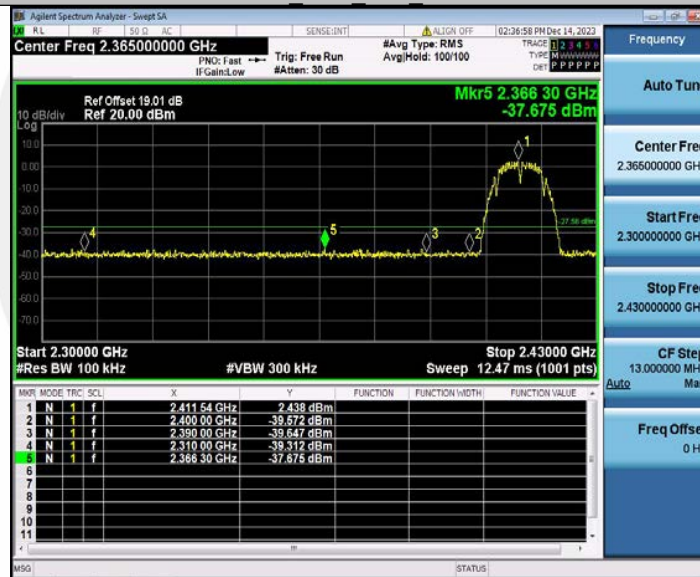
Note: N/A

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.99	-37.41	≤-27.01	PASS
	Ant2	Low	2412	2.44	-37.68	≤-27.56	PASS
	Ant1	High	2462	2.67	-36.33	≤-27.33	PASS
	Ant2	High	2462	3.33	-35.88	≤-26.67	PASS
11G	Ant1	Low	2412	2.26	-27.82	≤-27.74	PASS
	Ant2	Low	2412	2.75	-26.38	≤-17.25	PASS
	Ant1	High	2462	2.39	-36.67	≤-27.61	PASS
	Ant2	High	2462	3.06	-37.12	≤-26.95	PASS
11N20MIMO	Ant1	Low	2412	2.53	-27.78	≤-17.47	PASS
	Ant2	Low	2412	2.75	-27.59	≤-17.25	PASS
	Ant1	High	2462	2.28	-37.38	≤-27.72	PASS
	Ant2	High	2462	2.57	-37.56	≤-27.44	PASS
11N40MIMO	Ant1	Low	2422	-1.23	-32.73	≤-31.23	PASS
	Ant2	Low	2422	-0.67	-31.83	≤-30.67	PASS
	Ant1	High	2452	-1.01	-37.15	≤-31.01	PASS
	Ant2	High	2452	-0.76	-37.53	≤-30.76	PASS
11AX20MIMO	Ant1	Low	2412	2.35	-27.42	≤-17.65	PASS
	Ant2	Low	2412	2.61	-25.26	≤-17.39	PASS
	Ant1	High	2462	2.19	-36.53	≤-17.81	PASS
	Ant2	High	2462	3.08	-36.5	≤-16.92	PASS
11AX40MIMO	Ant1	Low	2422	-1.12	-31.46	≤-21.12	PASS
	Ant2	Low	2422	-0.56	-32.52	≤-20.56	PASS
	Ant1	High	2452	-0.79	-35.96	≤-20.79	PASS
	Ant2	High	2452	-0.68	-36.89	≤-20.68	PASS

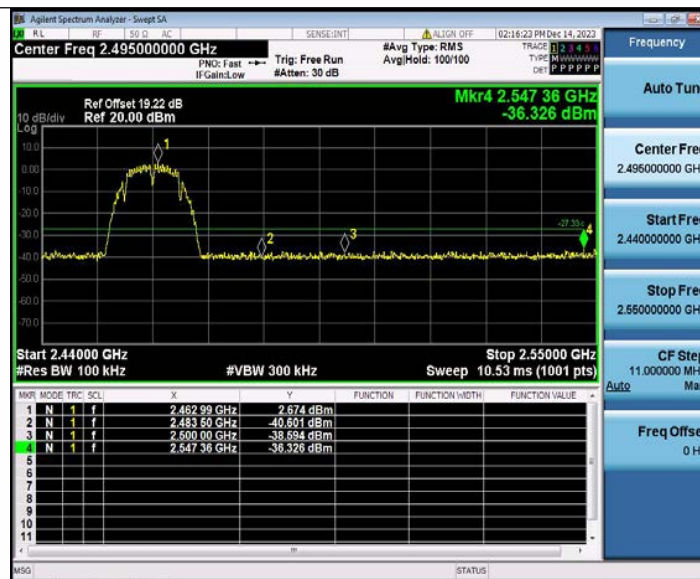
11B_Ant1_Low_2412



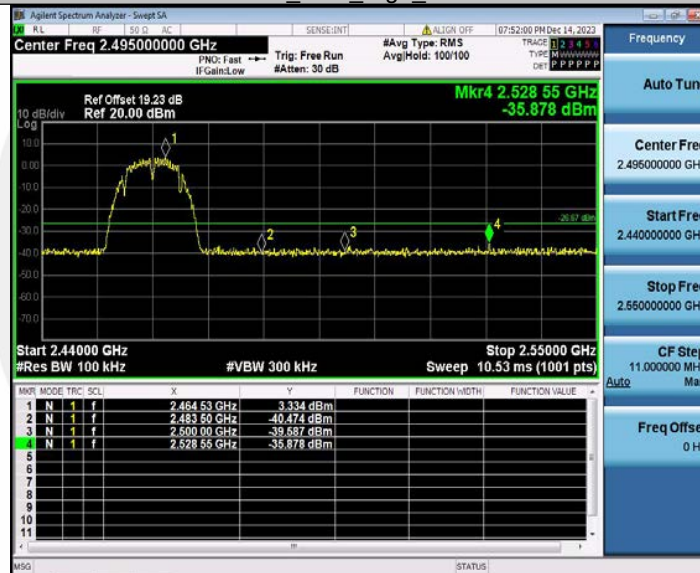
11B_Ant2_Low_2412



11B_Ant1_High_2462



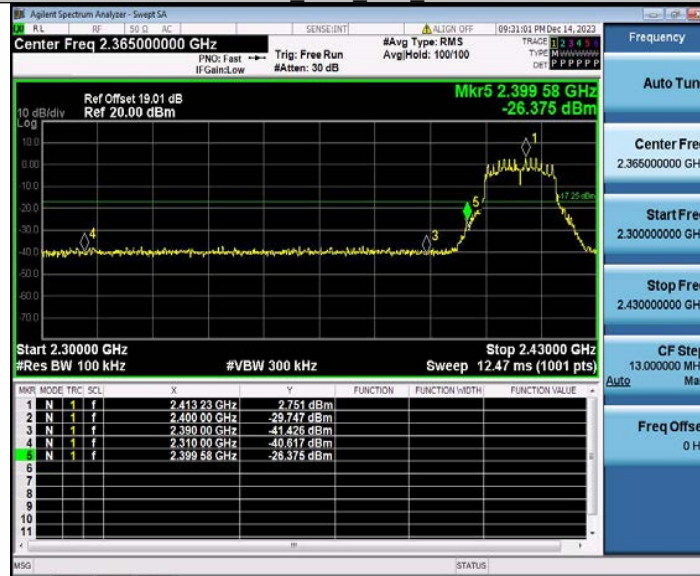
11B Ant2 High 2462



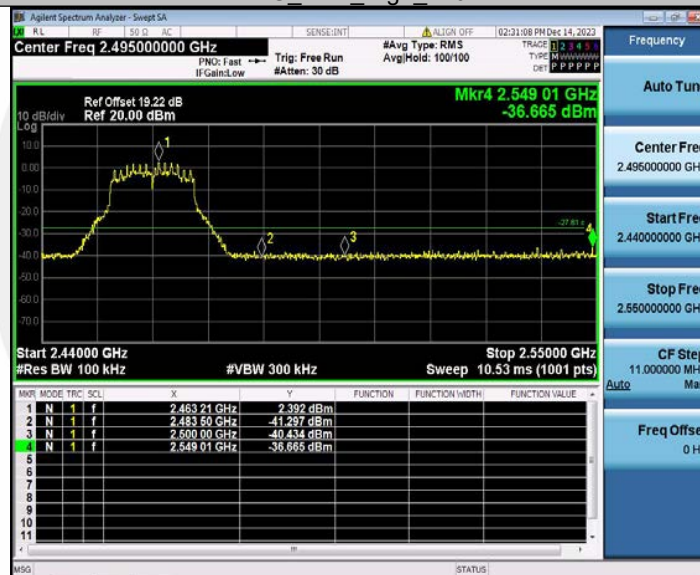
11G Ant1 Low 2412



11G Ant2_Low_2412



11G Ant1_High_2462



11G Ant2_High_2462



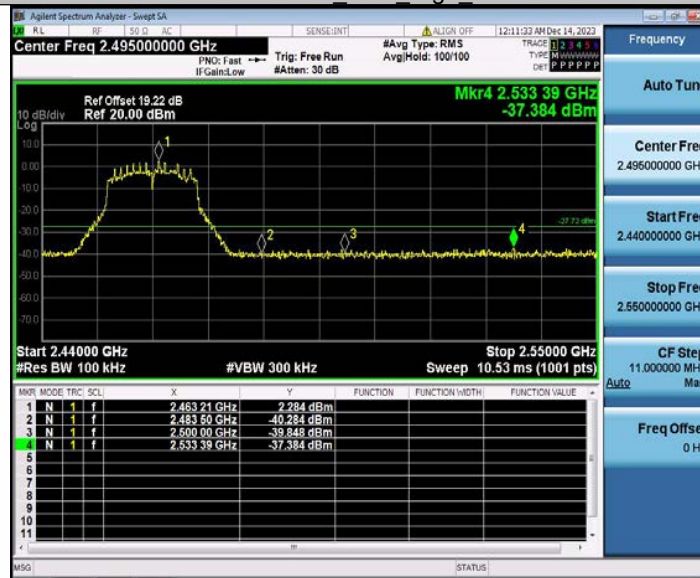
11N20MIMO Ant1 Low 2412



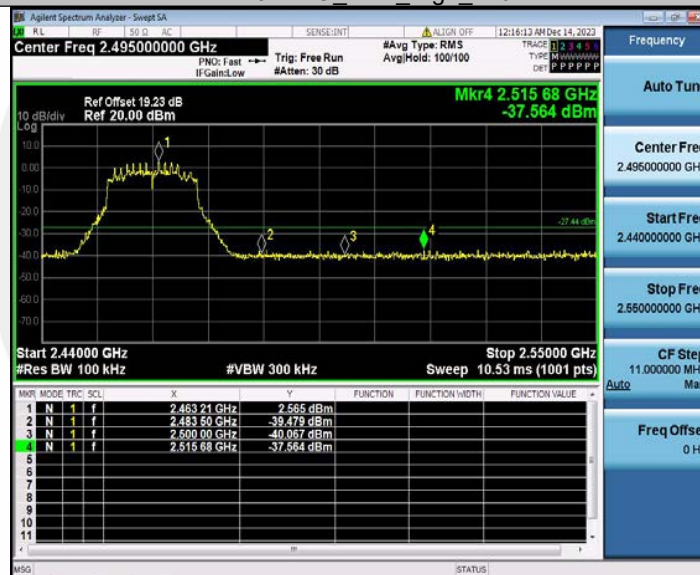
11N20MIMO Ant2 Low 2412



11N20MIMO_Ant1_High_2462



11N20MIMO_Ant2_High_2462



11N40MIMO_Ant1_Low_2422



11N40MIMO Ant2 Low 2422



11N40MIMO Ant1 High 2452



11N40MIMO_Ant2_High_2452



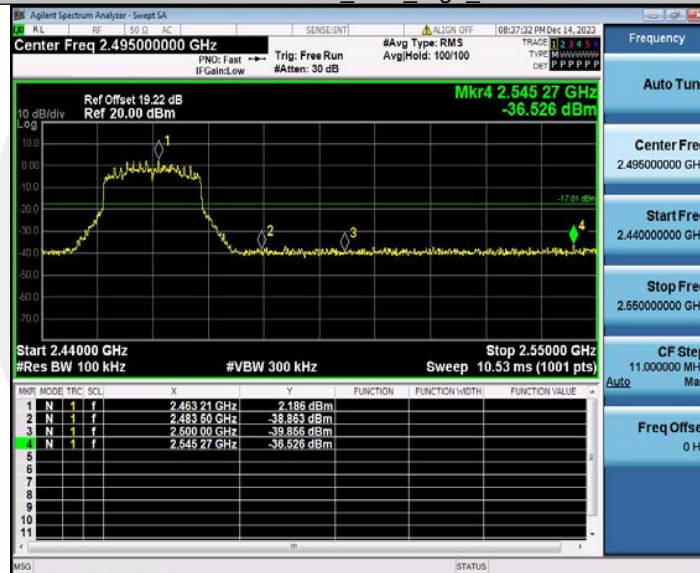
11AX20MIMO_Ant1_Low_2412



11AX20MIMO_Ant2_Low_2412



11AX20MIMO_Ant1_High_2462



11AX20MIMO_Ant2_High_2462



11AX40MIMO_Ant1_Low_2422



11AX40MIMO_Ant2_Low_2422



11AX40MIMO_Ant1_High_2452



11AX40MIMO_Ant2_High_2452



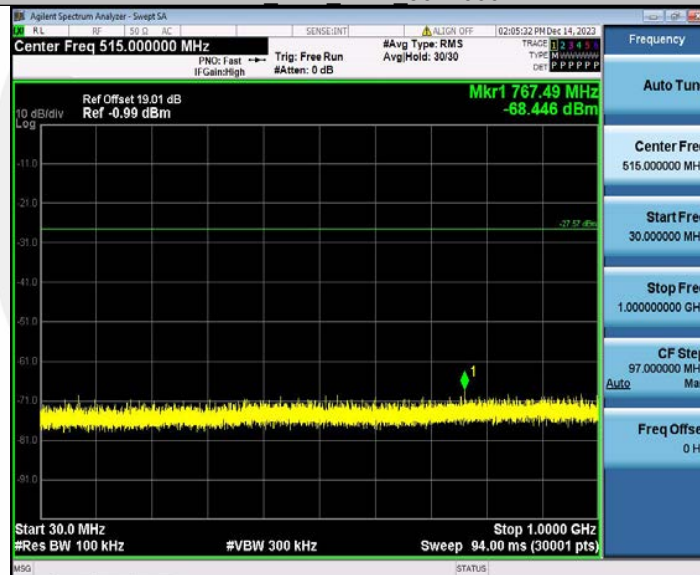
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.43	2.43	---	PASS
			30~1000	2.43	-68.45	≤-17.57	PASS
			1000~26500	2.43	-53.96	≤-17.57	PASS
	Ant2	2412	Reference	2.60	2.60	---	PASS
			30~1000	2.60	-69.91	≤-17.4	PASS
			1000~26500	2.60	-53.66	≤-17.4	PASS
	Ant1	2437	Reference	2.52	2.52	---	PASS
			30~1000	2.52	-68.6	≤-17.48	PASS
			1000~26500	2.52	-52.55	≤-17.48	PASS
	Ant2	2437	Reference	2.98	2.98	---	PASS
			30~1000	2.98	-69.25	≤-17.02	PASS
			1000~26500	2.98	-52.79	≤-17.02	PASS
	Ant1	2462	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-69.42	≤-17.86	PASS
			1000~26500	2.14	-53.23	≤-17.86	PASS
11G	Ant1	2412	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-69.74	≤-17.88	PASS
			1000~26500	2.12	-53.4	≤-17.88	PASS
	Ant2	2412	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-68.08	≤-17.43	PASS
			1000~26500	2.57	-53.27	≤-17.43	PASS
	Ant1	2437	Reference	2.01	2.01	---	PASS
			30~1000	2.01	-69.85	≤-17.99	PASS
			1000~26500	2.01	-53.43	≤-17.99	PASS
	Ant2	2437	Reference	2.56	2.56	---	PASS
			30~1000	2.56	-69.84	≤-17.44	PASS
			1000~26500	2.56	-52.57	≤-17.44	PASS
	Ant1	2462	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-68.79	≤-21.34	PASS
			1000~26500	-1.34	-53.22	≤-21.34	PASS
11N20MIMO	Ant1	2412	Reference	1.26	1.26	---	PASS
			30~1000	1.26	-69.46	≤-18.74	PASS
			1000~26500	1.26	-52.82	≤-18.74	PASS
	Ant2	2412	Reference	-0.38	-0.38	---	PASS
			30~1000	-0.38	-69.22	≤-20.38	PASS
			1000~26500	-0.38	-53.08	≤-20.38	PASS
	Ant2	2412	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-69.05	≤-18.1	PASS
			1000~26500	1.90	-52.9	≤-18.1	PASS
	Ant1	2437	Reference	1.94	1.94	---	PASS
			30~1000	1.94	-69.11	≤-18.06	PASS
			1000~26500	1.94	-53.1	≤-18.06	PASS
	Ant2	2437	Reference	2.14	2.14	---	PASS
			30~1000	2.14	-68.96	≤-17.86	PASS
			1000~26500	2.14	-52.89	≤-17.86	PASS
11N40MIMO	Ant1	2462	Reference	1.76	1.76	---	PASS
			30~1000	1.76	-68.89	≤-18.24	PASS
			1000~26500	1.76	-53.25	≤-18.24	PASS
	Ant2	2462	Reference	2.45	2.45	---	PASS
			30~1000	2.45	-68.49	≤-17.55	PASS
			1000~26500	2.45	-52.8	≤-17.55	PASS
	Ant1	2422	Reference	-1.43	-1.43	---	PASS
			30~1000	-1.43	-69.09	≤-21.43	PASS
			1000~26500	-1.43	-53.12	≤-21.43	PASS
	Ant2	2422	Reference	-0.73	-0.73	---	PASS
			30~1000	-0.73	-69.71	≤-20.73	PASS

	Ant1	2437	1000~26500	-0.73	-53.34	≤ -20.73	PASS
			Reference	-1.86	-1.86	---	PASS
			30~1000	-1.86	-70.12	≤ -21.86	PASS
			1000~26500	-1.86	-53.1	≤ -21.86	PASS
	Ant2	2437	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-69.39	≤ -20.76	PASS
			1000~26500	-0.76	-53.35	≤ -20.76	PASS
			Reference	-1.72	-1.72	---	PASS
	Ant1	2452	30~1000	-1.72	-69.06	≤ -21.72	PASS
			1000~26500	-1.72	-53.19	≤ -21.72	PASS
			Reference	-1.05	-1.05	---	PASS
			30~1000	-1.05	-68.13	≤ -21.05	PASS
11AX20MIMO	Ant1	2412	1000~26500	-1.05	-53.31	≤ -21.05	PASS
			Reference	1.76	1.76	---	PASS
			30~1000	1.76	-69.59	≤ -18.24	PASS
			1000~26500	1.76	-53.27	≤ -18.24	PASS
	Ant2	2412	Reference	2.21	2.21	---	PASS
			30~1000	2.21	-69.08	≤ -17.79	PASS
			1000~26500	2.21	-52.62	≤ -17.79	PASS
	Ant1	2437	Reference	-1.15	-1.15	---	PASS
			30~1000	-1.15	-69.65	≤ -21.15	PASS
			1000~26500	-1.15	-52.72	≤ -21.15	PASS
	Ant2	2437	Reference	2.51	2.51	---	PASS
			30~1000	2.51	-69.18	≤ -17.49	PASS
			1000~26500	2.51	-53.34	≤ -17.49	PASS
11AX40MIMO	Ant1	2462	Reference	2.48	2.48	---	PASS
			30~1000	2.48	-69.09	≤ -17.52	PASS
			1000~26500	2.48	-53.07	≤ -17.52	PASS
	Ant2	2462	Reference	2.50	2.50	---	PASS
			30~1000	2.50	-69.45	≤ -17.5	PASS
			1000~26500	2.50	-51.32	≤ -17.5	PASS
	Ant1	2422	Reference	-1.67	-1.67	---	PASS
			30~1000	-1.67	-69.74	≤ -21.67	PASS
			1000~26500	-1.67	-53.2	≤ -21.67	PASS
	Ant2	2422	Reference	-1.35	-1.35	---	PASS
			30~1000	-1.35	-69.29	≤ -21.35	PASS
			1000~26500	-1.35	-53.28	≤ -21.35	PASS
	Ant1	2437	Reference	-1.98	-1.98	---	PASS
			30~1000	-1.98	-69.55	≤ -21.98	PASS
			1000~26500	-1.98	-53.39	≤ -21.98	PASS
	Ant2	2437	Reference	-0.89	-0.89	---	PASS
			30~1000	-0.89	-69.8	≤ -20.89	PASS
			1000~26500	-0.89	-53.14	≤ -20.89	PASS
	Ant1	2452	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-69.19	≤ -20.85	PASS
			1000~26500	-0.85	-52.89	≤ -20.85	PASS
	Ant2	2452	Reference	-1.34	-1.34	---	PASS
			30~1000	-1.34	-69.55	≤ -21.34	PASS
			1000~26500	-1.34	-53	≤ -21.34	PASS

11B Ant1 2412 0~Reference



11B Ant1 2412 30~1000



11B Ant1 2412 1000~26500



11B_Ant2_2412_0~Reference



11B_Ant2_2412_30~1000



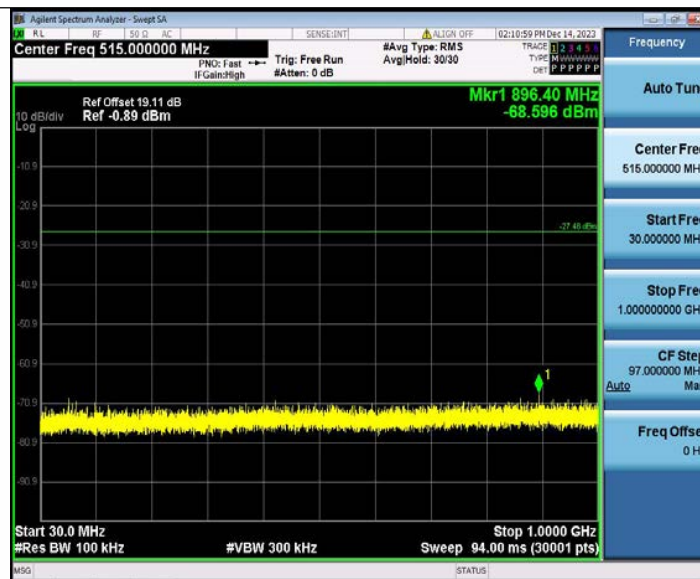
11B_Ant2_2412_1000~26500



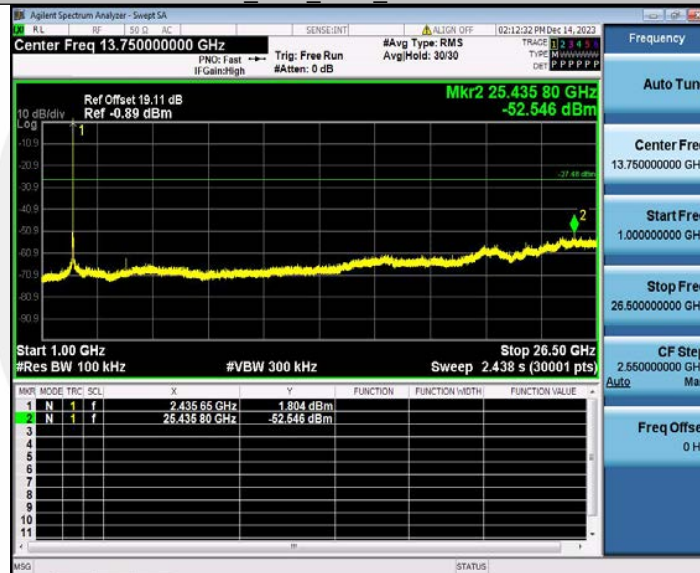
11B_Ant1_2437_0~Reference



11B_Ant1_2437_30~1000



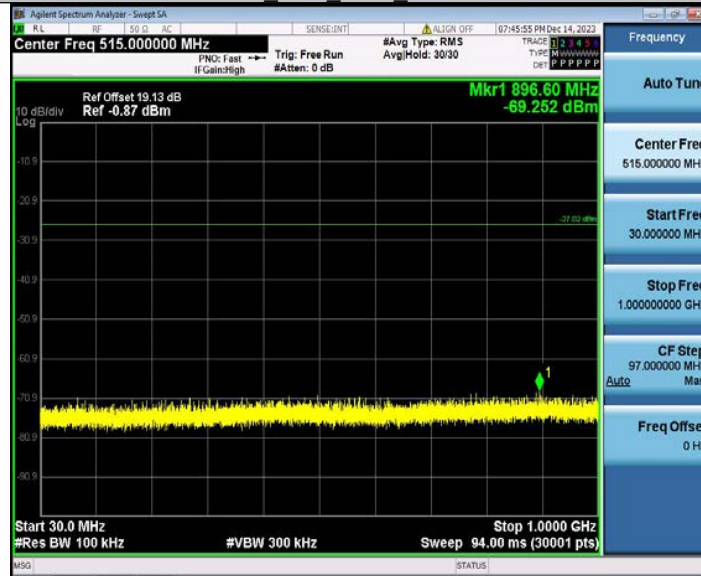
11B_Ant1 2437 1000~26500



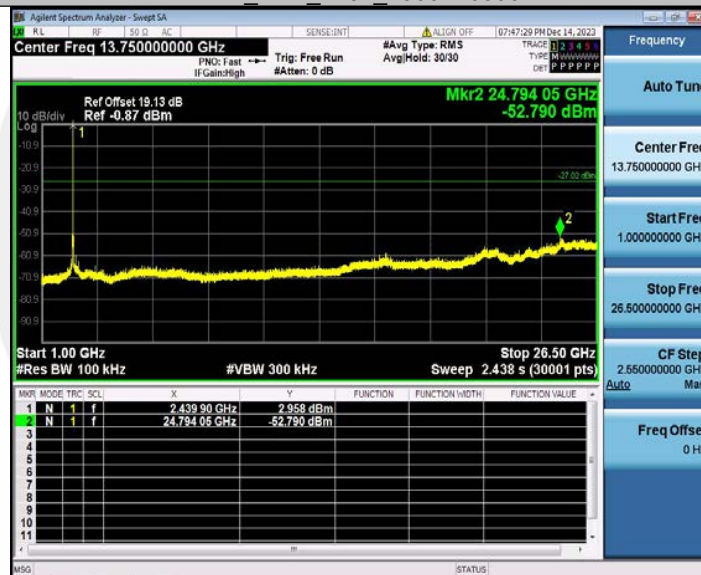
11B_Ant2 2437 0~Reference



11B_Ant2_2437_30~1000



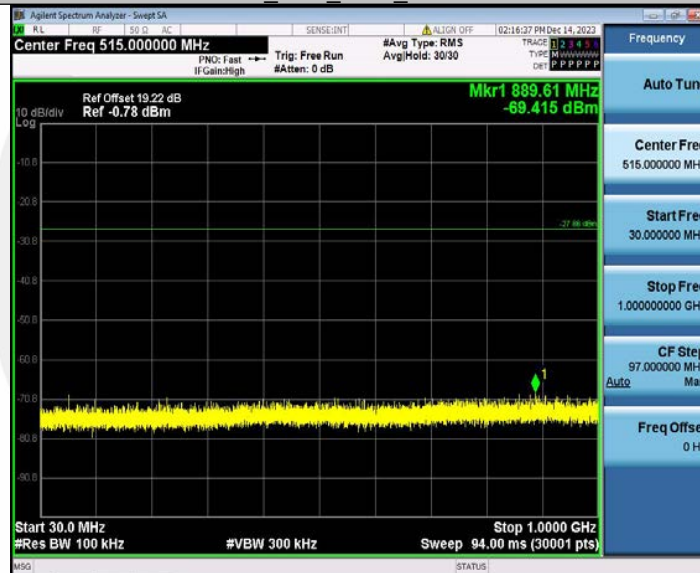
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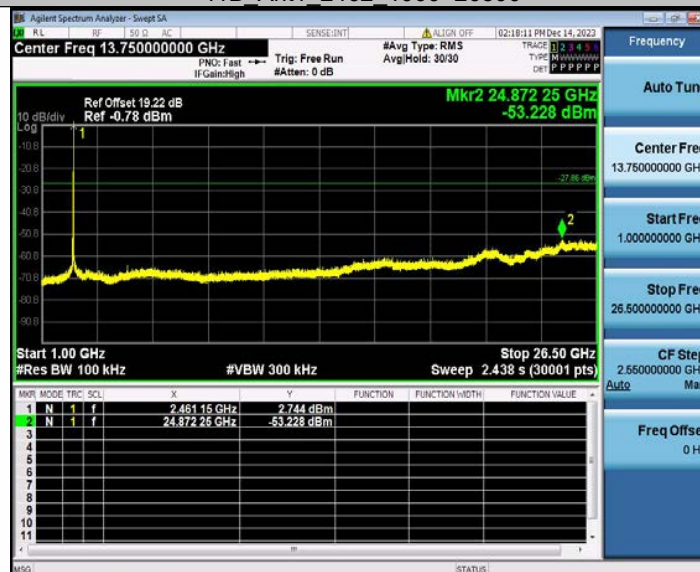
11B_Ant1_2462_0~Reference



11B_Ant1_2462_30~1000



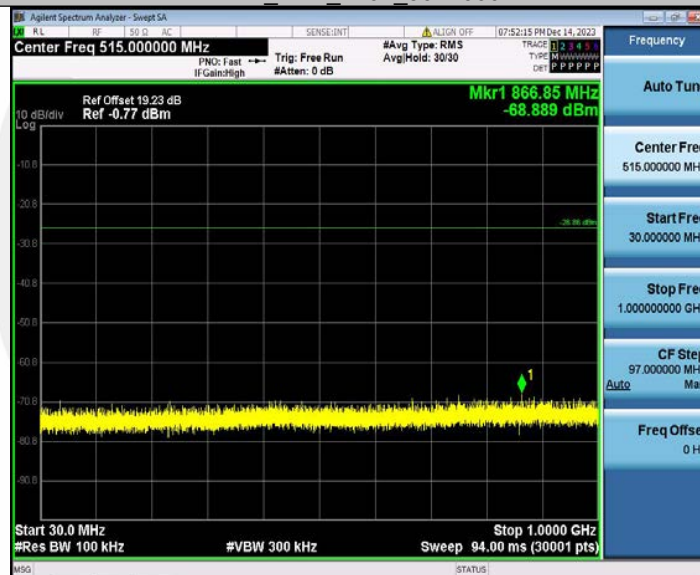
11B_Ant1_2462_1000~26500



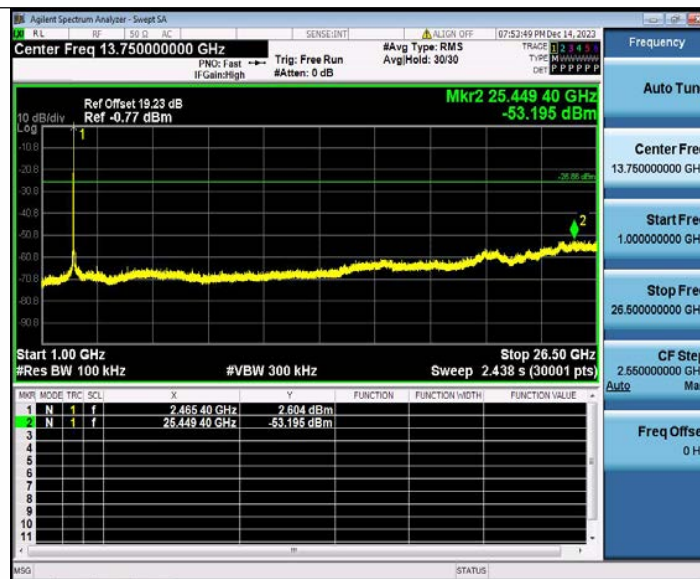
11B_Ant2_2462_0~Reference



11B_Ant2_2462_30~1000



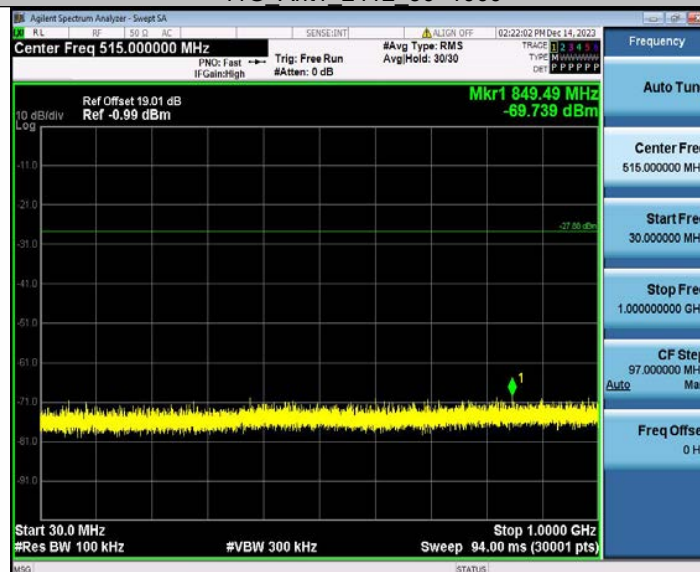
11B_Ant2_2462_1000~26500



11G_Ant1_2412_0~Reference



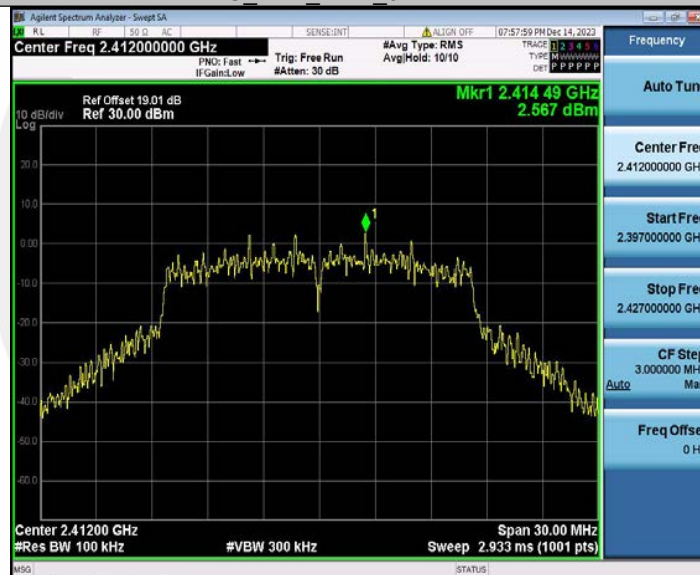
11G_Ant1_2412_30~1000



11G Ant1 2412 1000~26500



11G Ant2 2412 0~Reference



11G Ant2 2412 30~1000



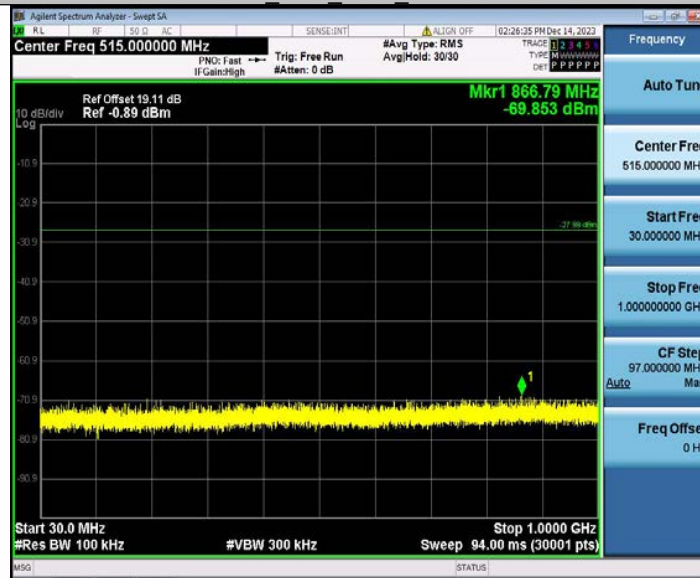
11G Ant2 2412 1000~26500



11G Ant1 2437 0~Reference



11G_Ant1_2437_30~1000



11G_Ant1_2437_1000~26500



11G_Ant2_2437_0~Reference