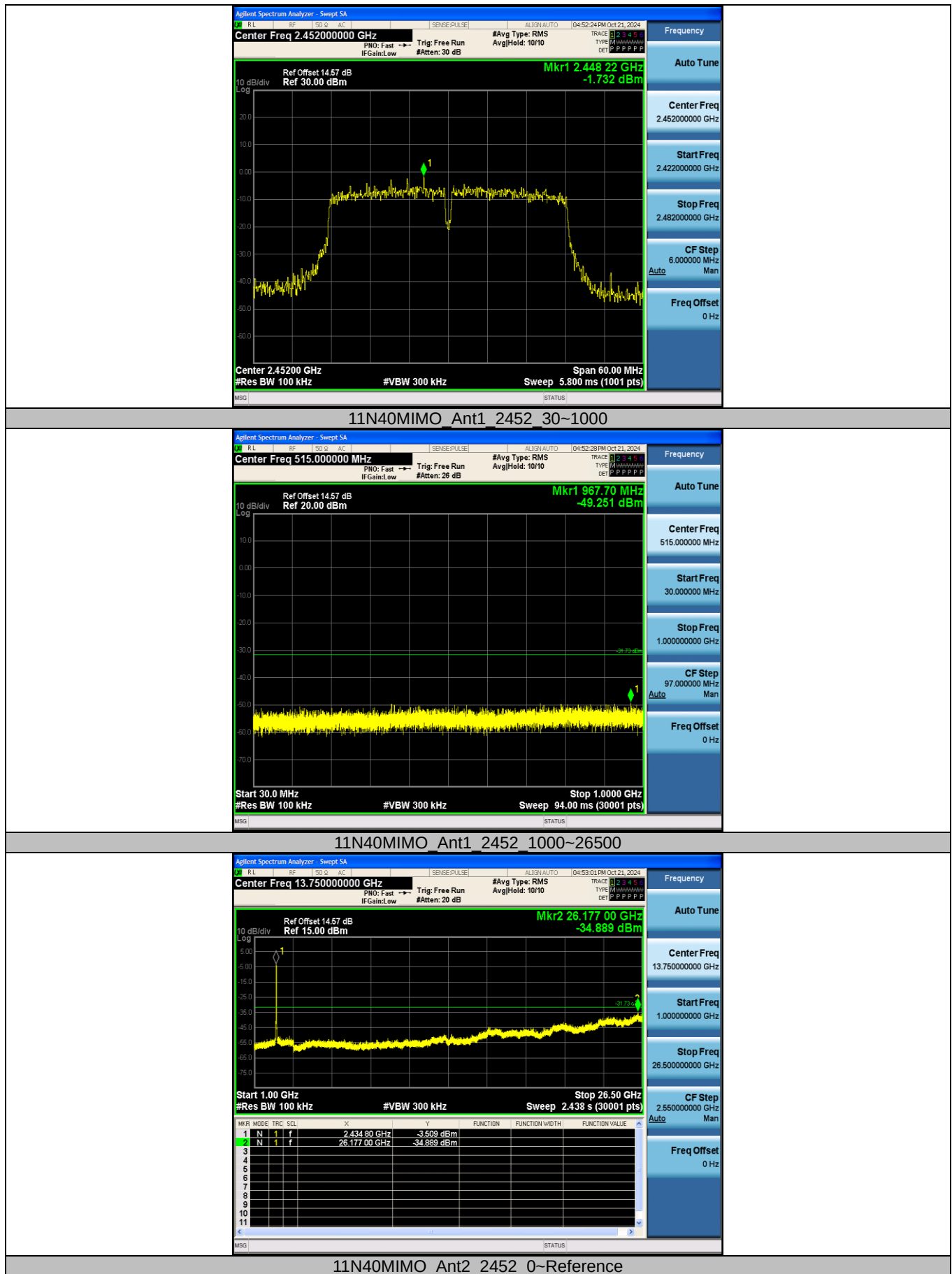


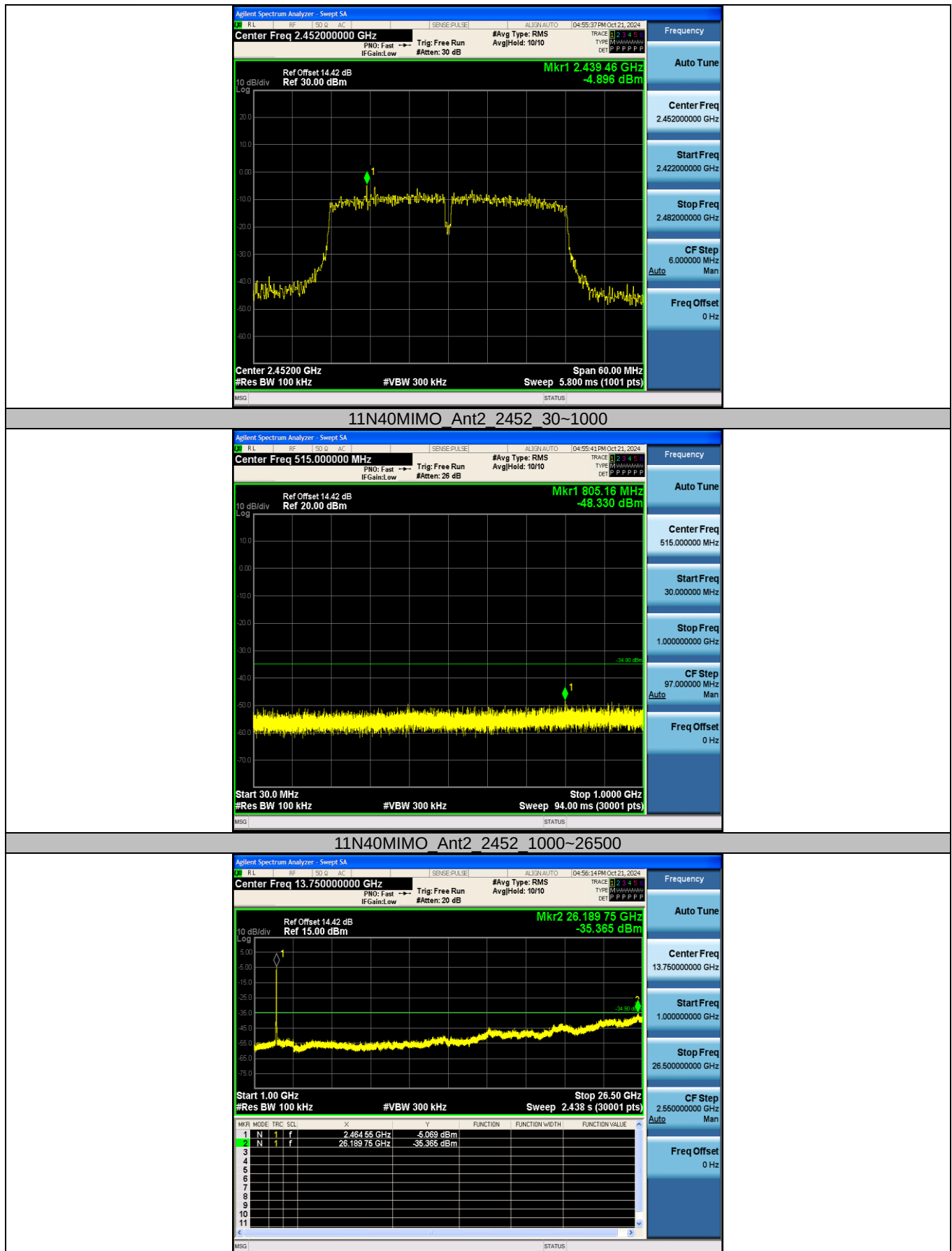


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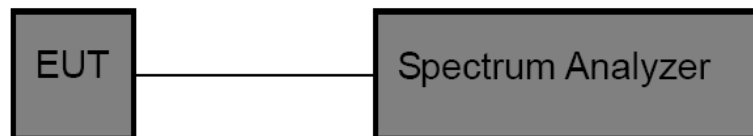
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥ 500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. DTS Spectrum Setting:
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.OCB Spectrum Setting:
 - (1) Set RBW = 1% ~ 5% occupied bandwidth.
 - (2) Set the video bandwidth (VBW) ≥ 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

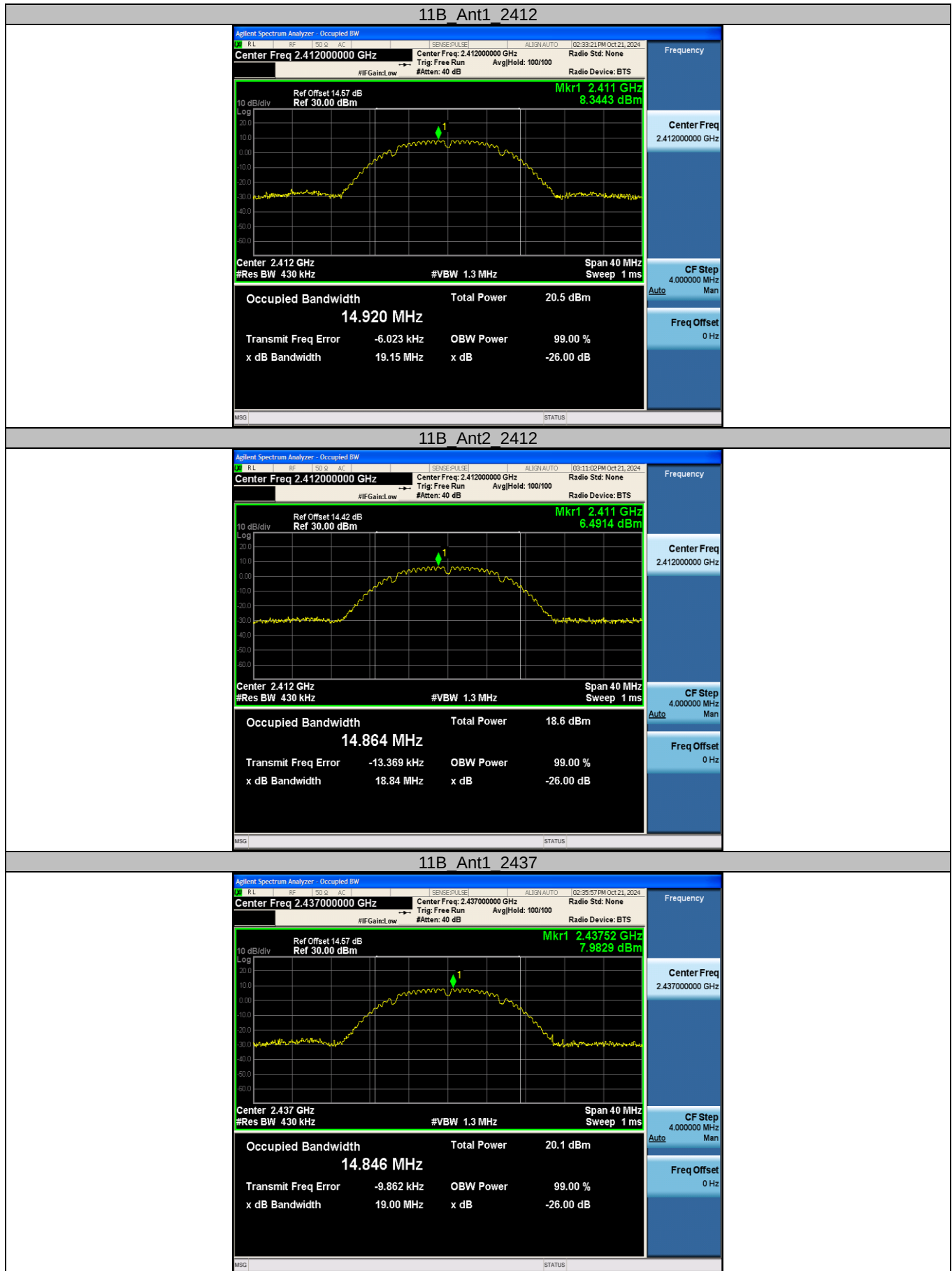
Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	DTS BW [MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.920	10.080	0.5	PASS
	Ant2	2412	14.864	10.040	0.5	PASS
	Ant1	2437	14.846	10.040	0.5	PASS
	Ant2	2437	14.826	10.080	0.5	PASS
	Ant1	2462	14.893	10.080	0.5	PASS
	Ant2	2462	14.779	10.040	0.5	PASS
11G	Ant1	2412	16.820	16.320	0.5	PASS
	Ant2	2412	16.845	15.120	0.5	PASS
	Ant1	2437	16.781	15.080	0.5	PASS
	Ant2	2437	16.932	15.440	0.5	PASS
	Ant1	2462	16.761	15.640	0.5	PASS
	Ant2	2462	16.899	15.240	0.5	PASS
11N20MIMO	Ant1	2412	17.871	16.800	0.5	PASS
	Ant2	2412	17.924	17.600	0.5	PASS
	Ant1	2437	17.903	16.320	0.5	PASS
	Ant2	2437	17.917	16.240	0.5	PASS
	Ant1	2462	17.881	16.560	0.5	PASS
	Ant2	2462	17.889	15.680	0.5	PASS
11N40MIMO	Ant1	2422	36.325	35.040	0.5	PASS
	Ant2	2422	36.321	35.120	0.5	PASS
	Ant1	2437	36.447	35.120	0.5	PASS
	Ant2	2437	36.375	35.120	0.5	PASS
	Ant1	2452	36.332	34.960	0.5	PASS
	Ant2	2452	36.436	34.640	0.5	PASS



99% Bandwidth:



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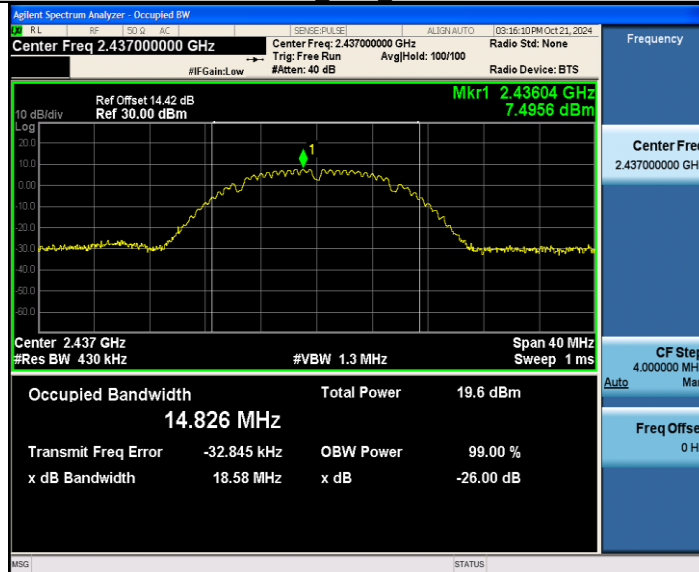
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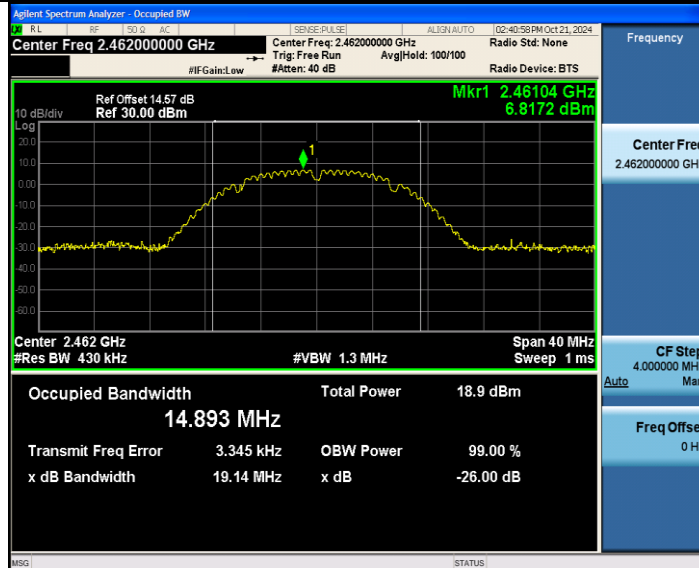
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11B_Ant2_2437



11B_Ant1_2462



11B_Ant2_2462



11G_Ant1_2412

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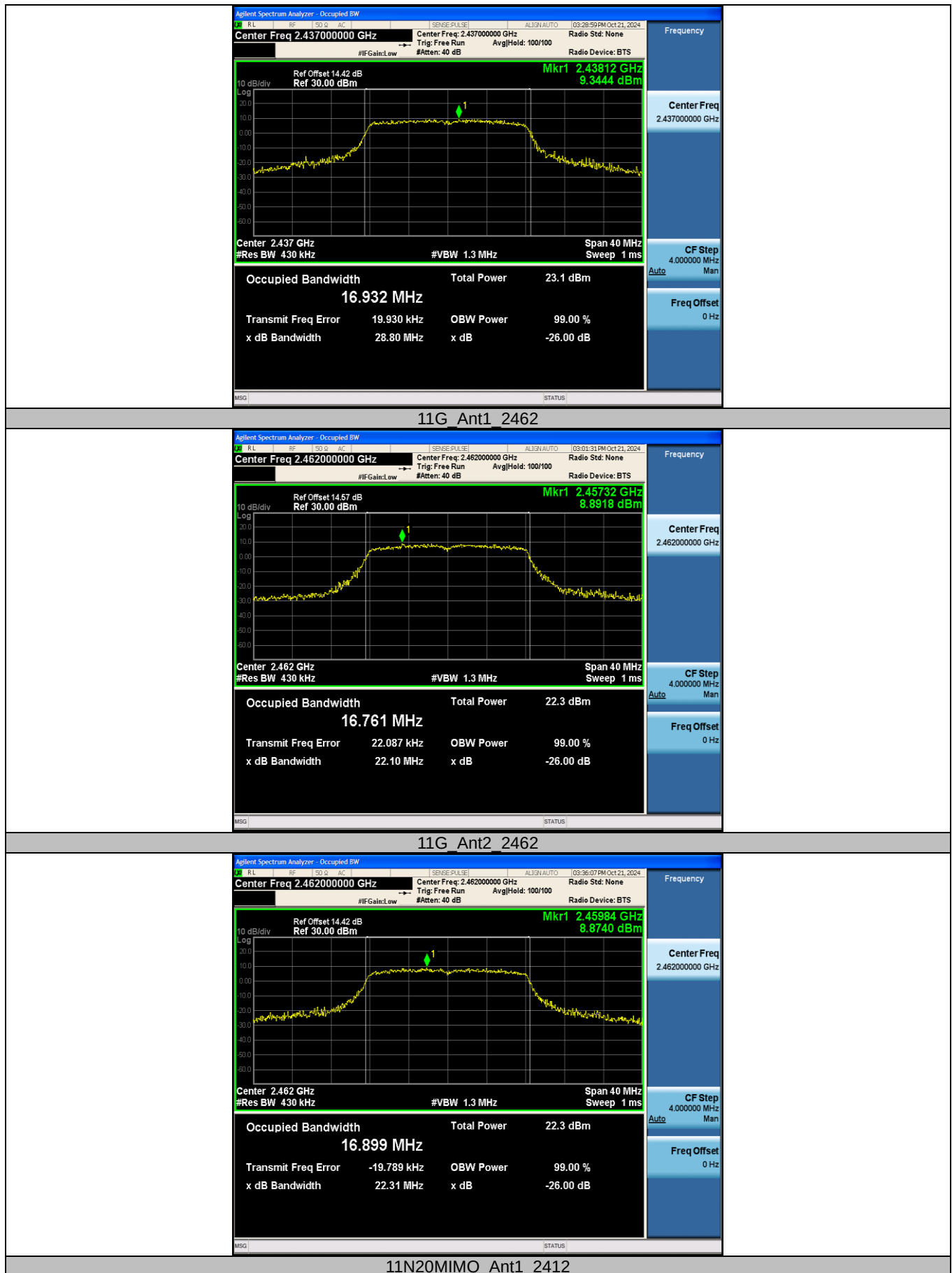


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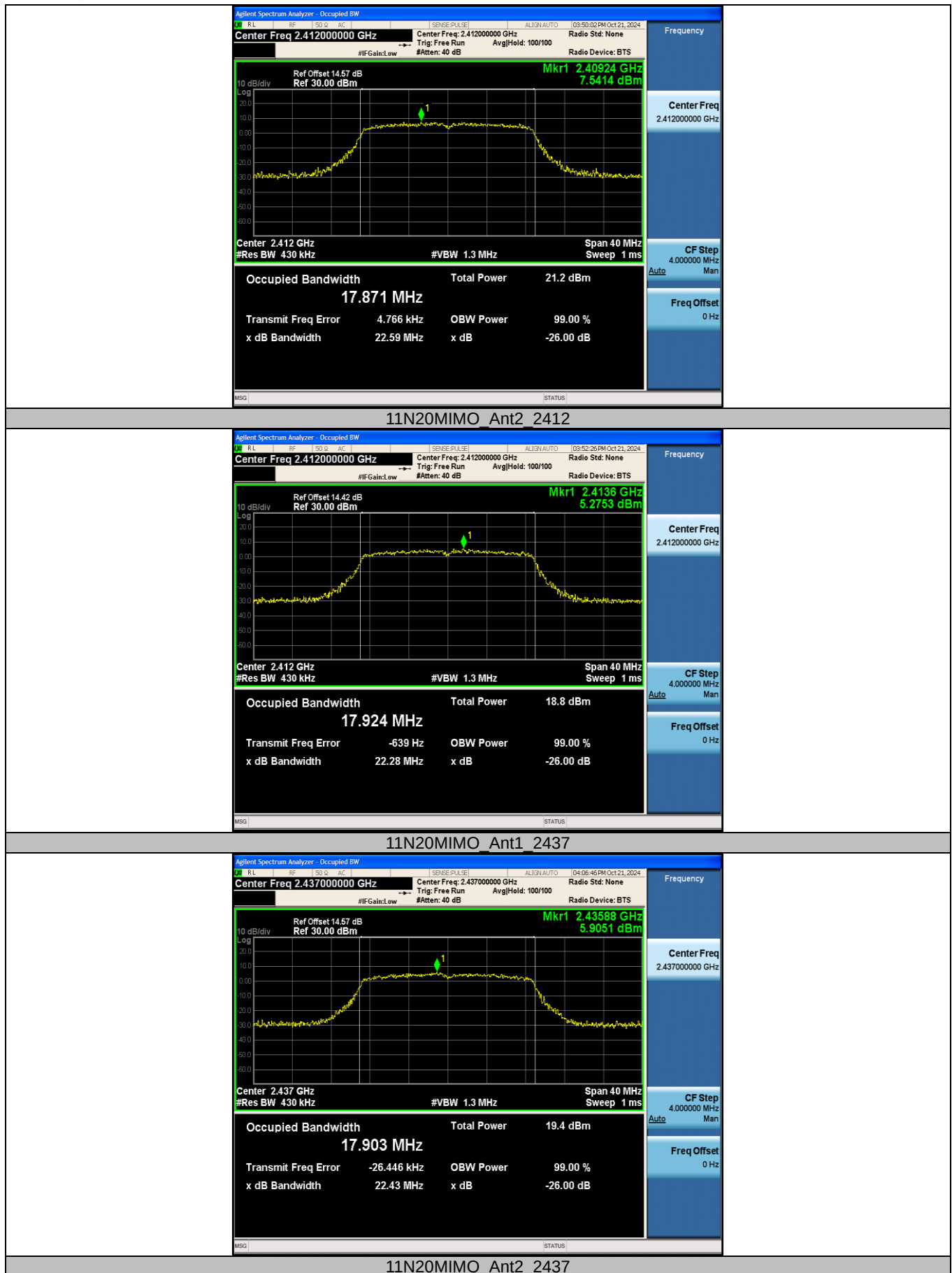


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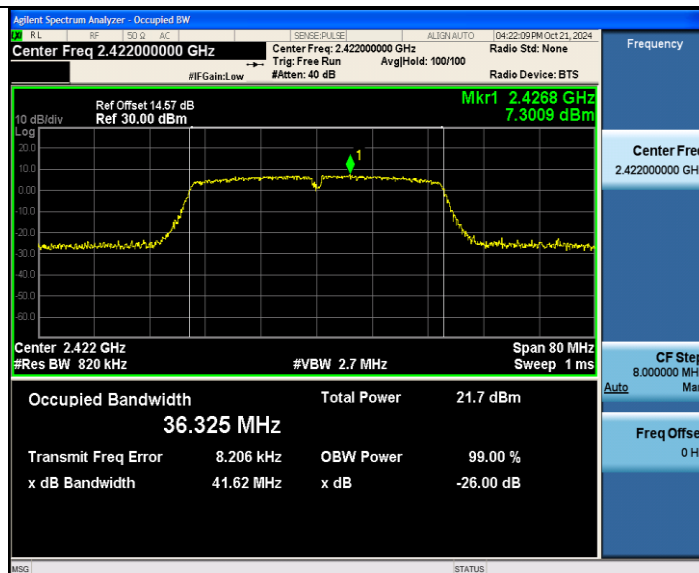


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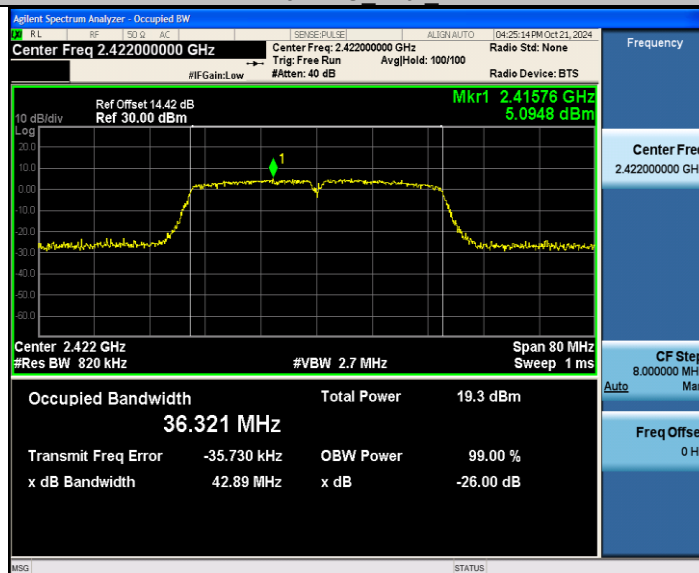
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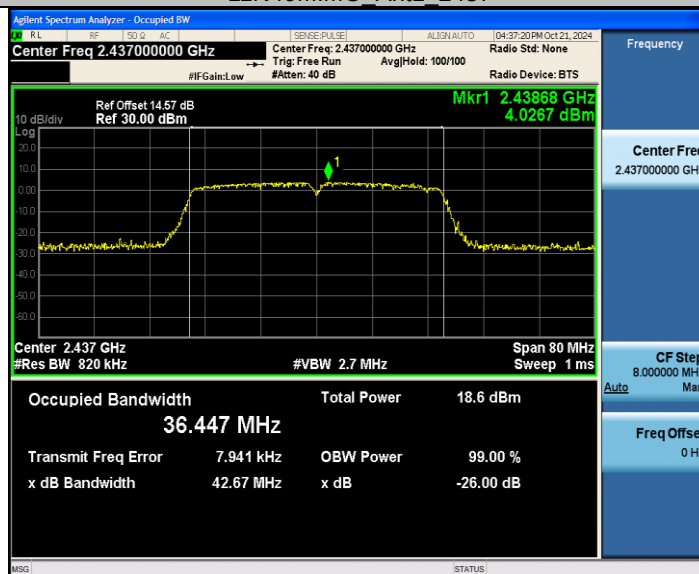
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11N40MIMO_Ant2_2422



11N40MIMO_Ant1_2437



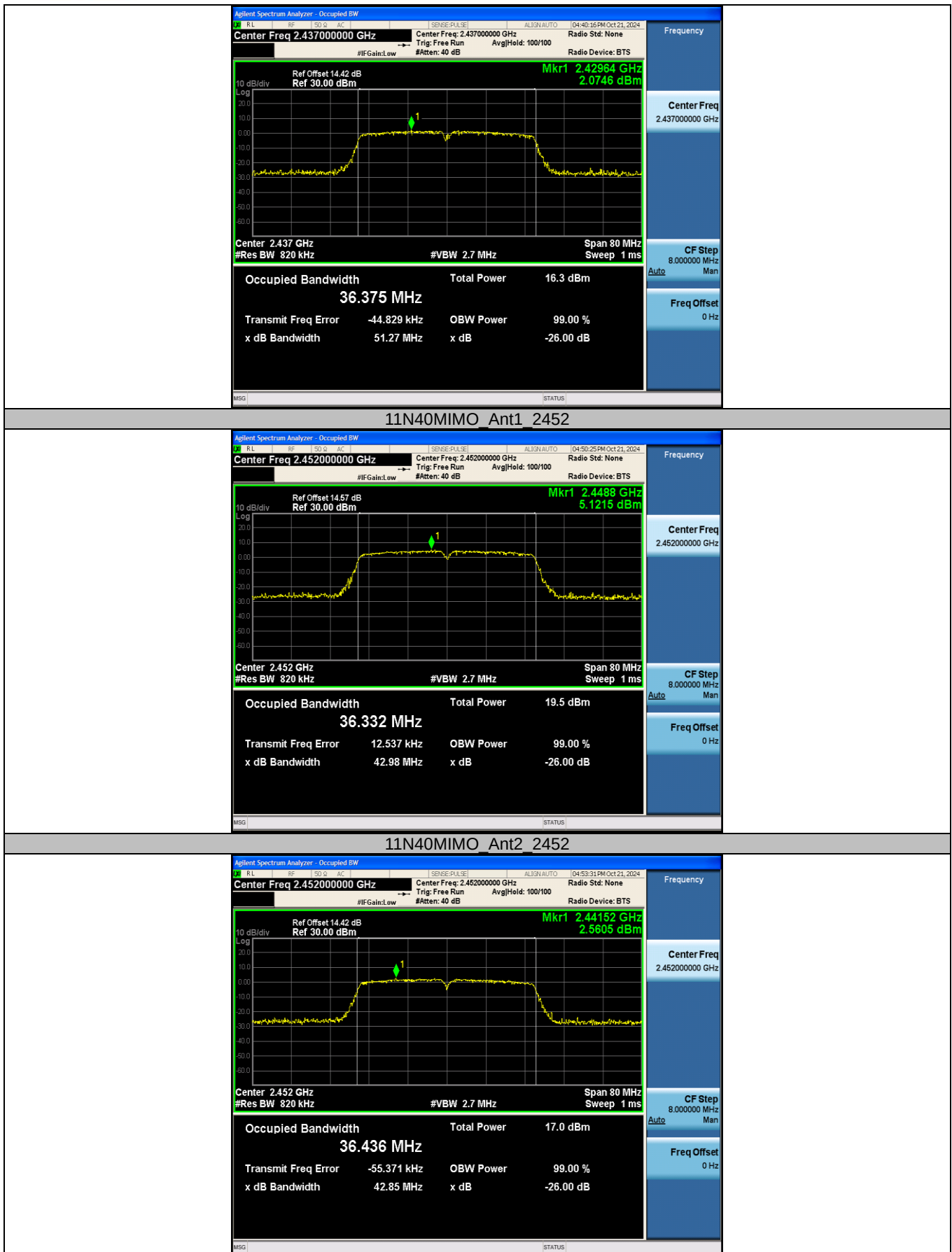
11N40MIMO_Ant2_2437

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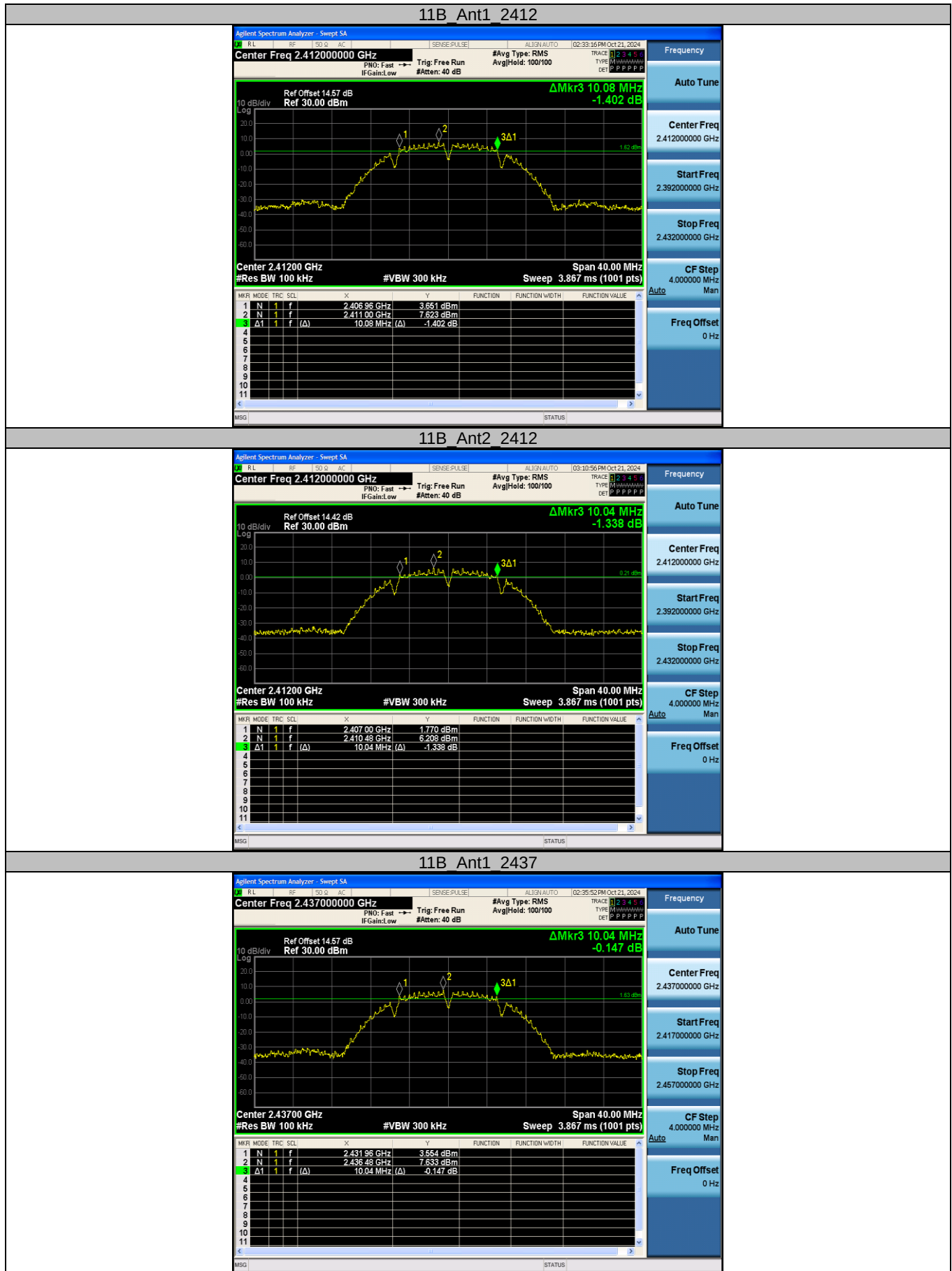
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DTS Bandwidth:



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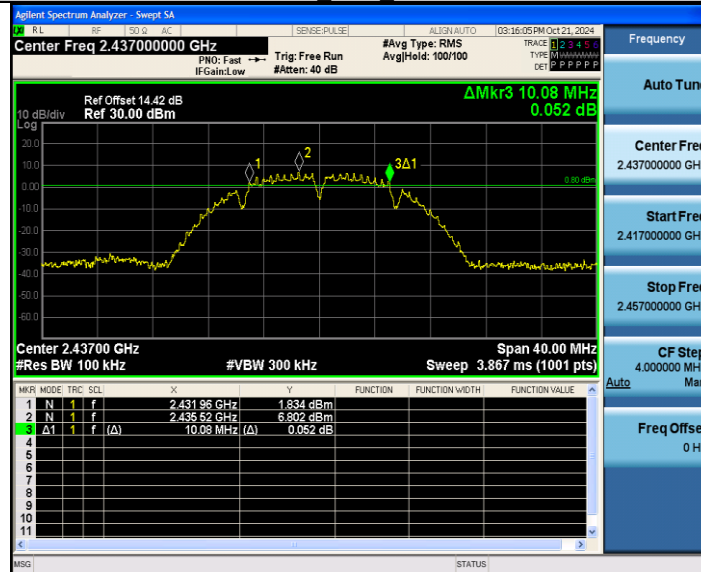
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TRF No: CTC-TR-057_A1

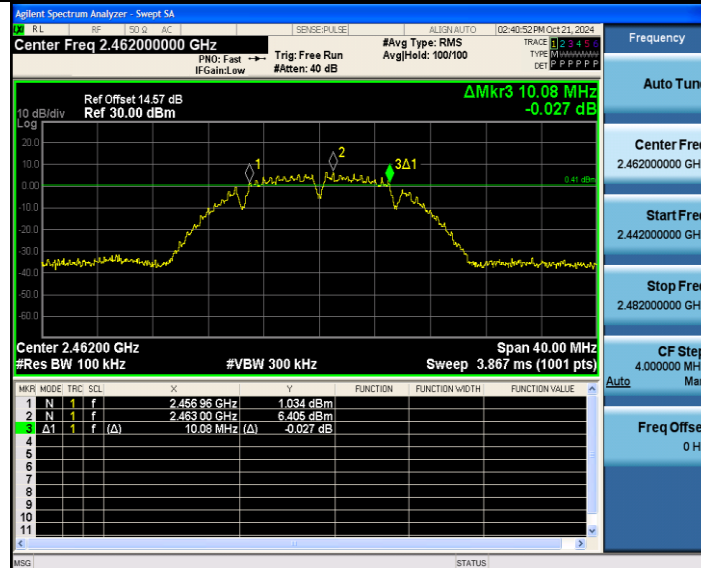
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11B Ant2 2437



11B Ant1 2462



11B Ant2 2462



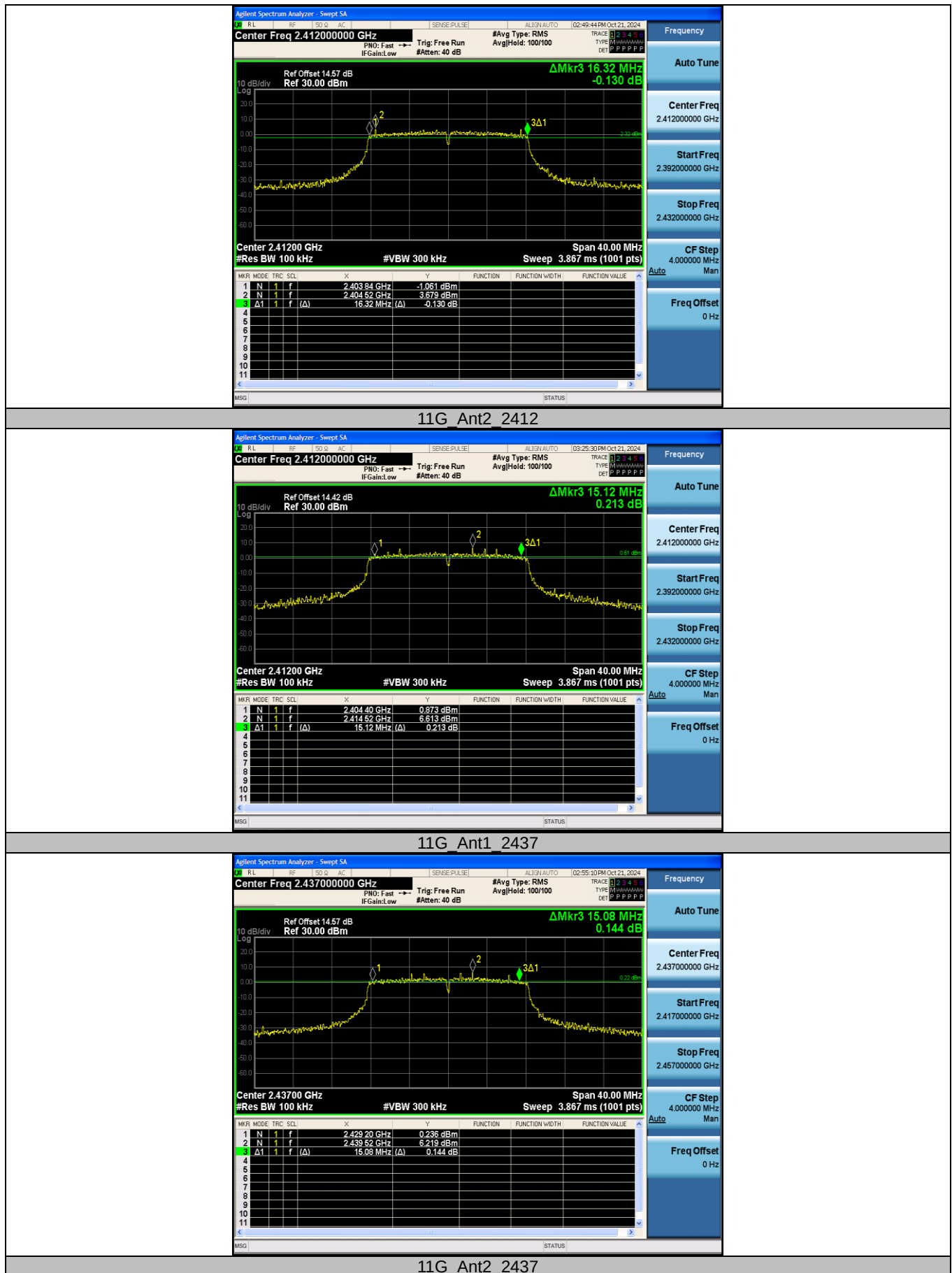
11G Ant1 2412

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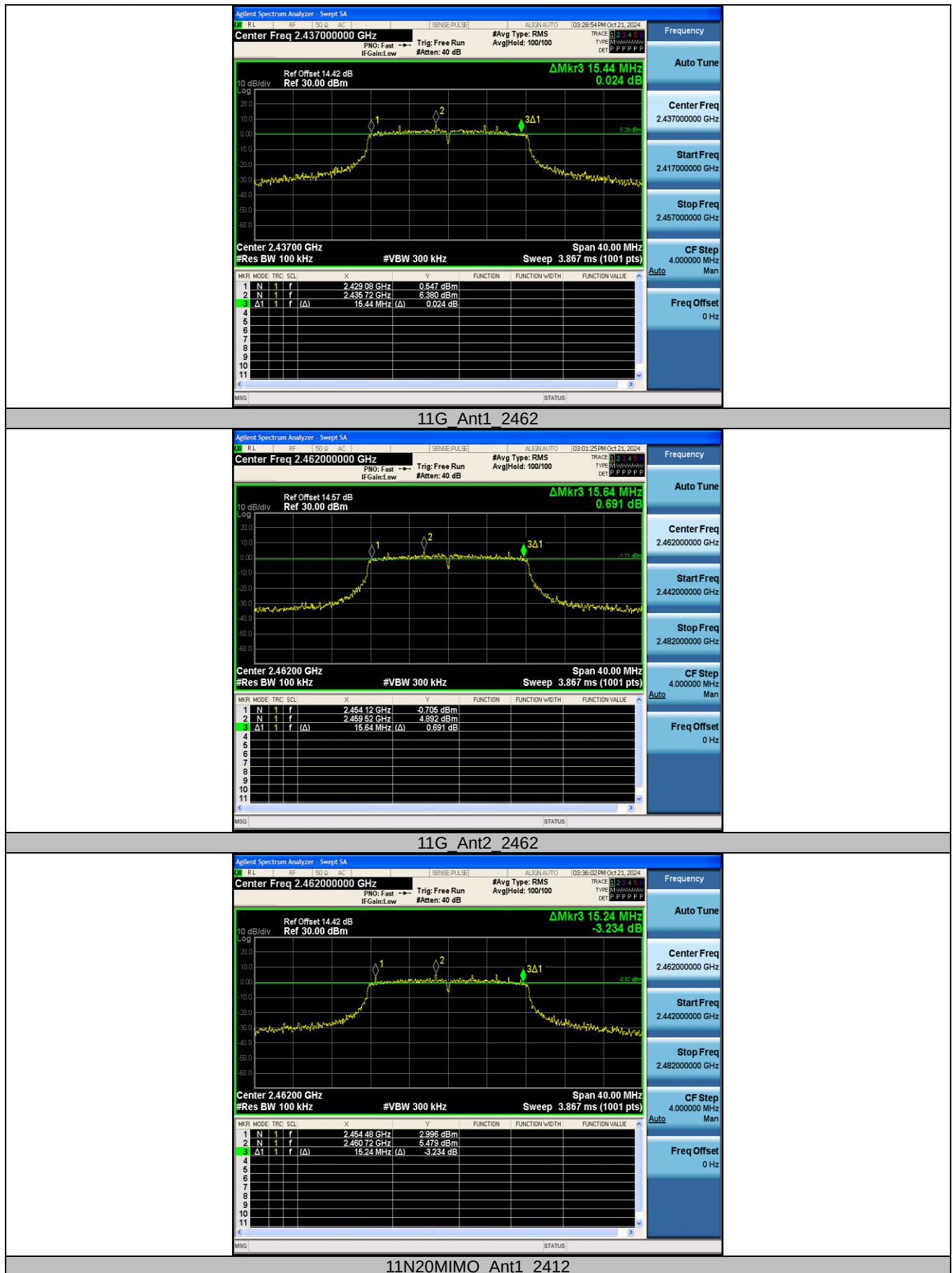


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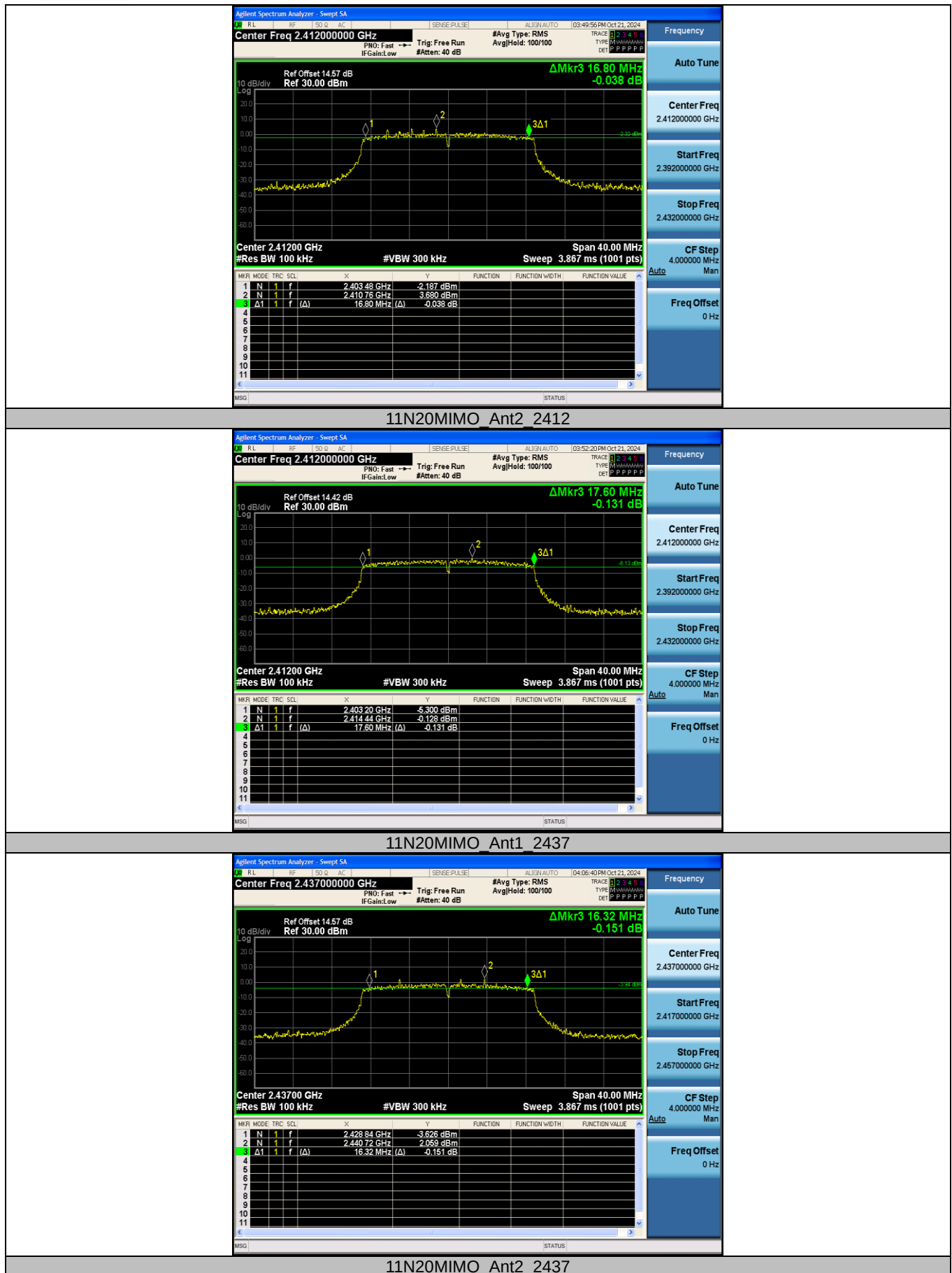


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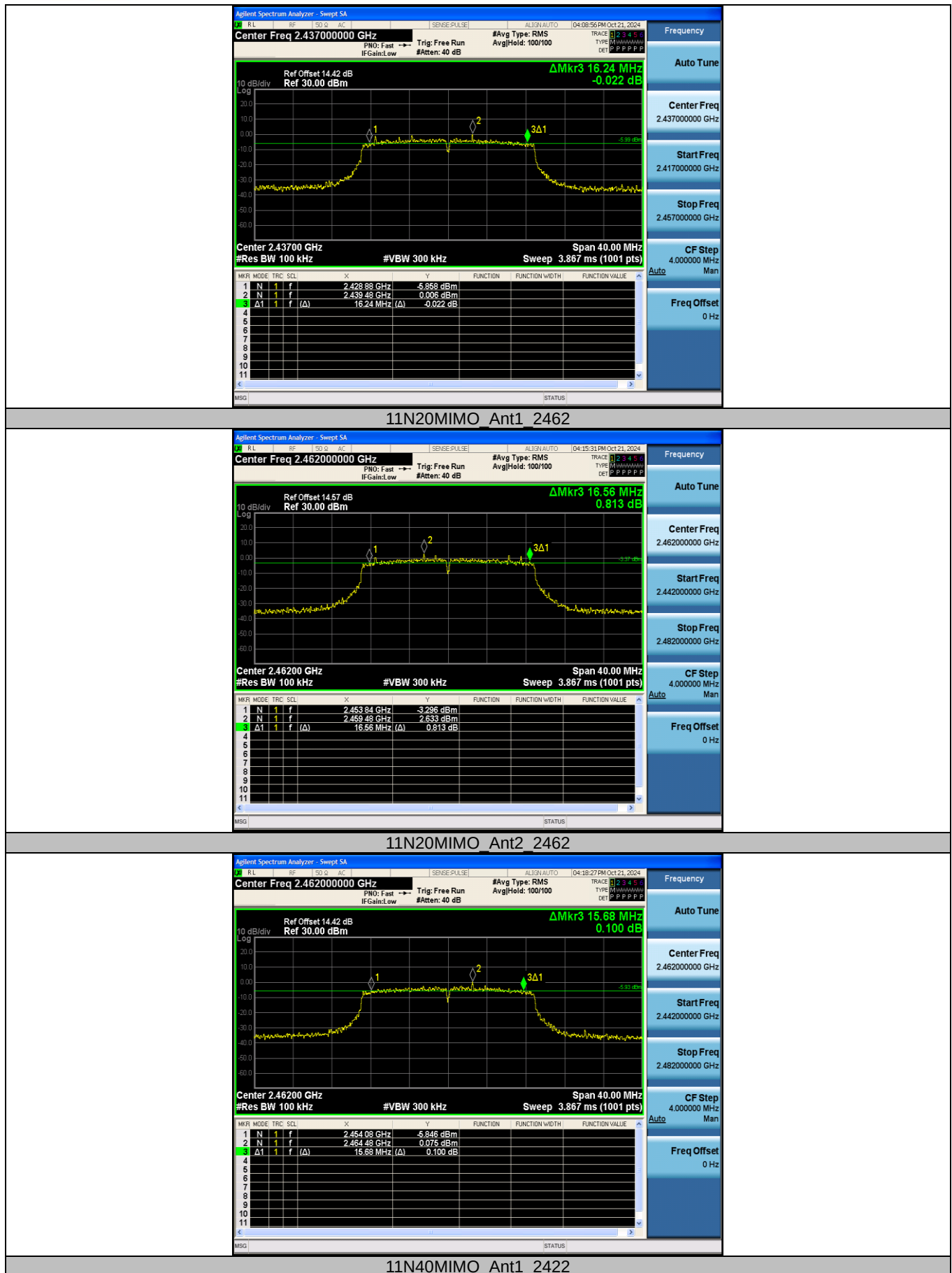


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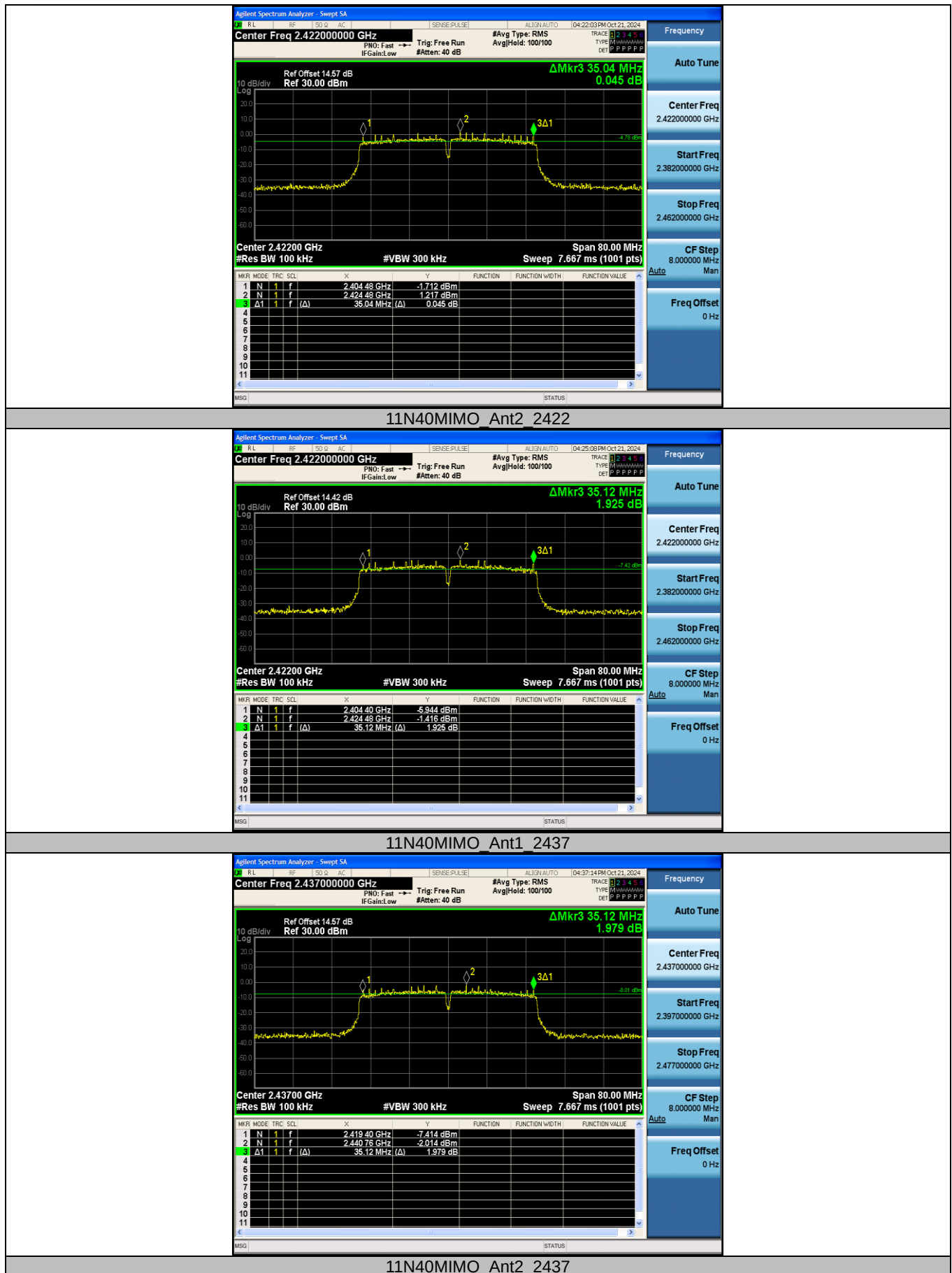


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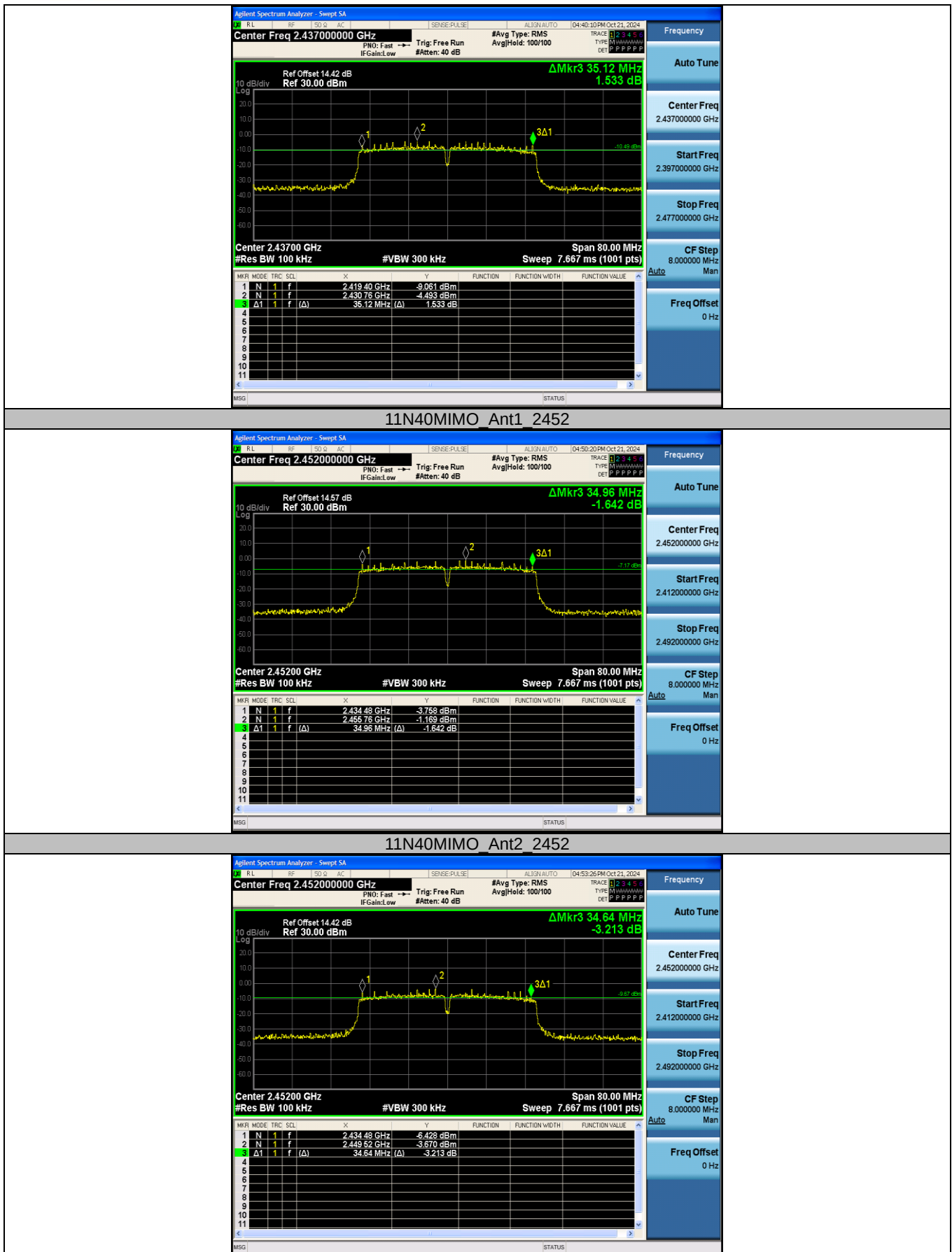


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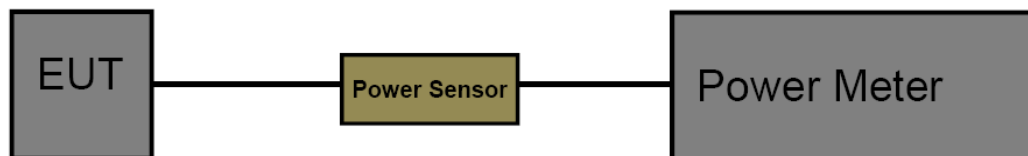
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	17.36	≤30.00	PASS
	Ant2	2412	17.05	≤30.00	PASS
	Ant1	2437	17.20	≤30.00	PASS
	Ant2	2437	17.23	≤30.00	PASS
	Ant1	2462	15.75	≤30.00	PASS
	Ant2	2462	16.92	≤30.00	PASS
11G	Ant1	2412	16.12	≤30.00	PASS
	Ant2	2412	17.65	≤30.00	PASS
	Ant1	2437	14.91	≤30.00	PASS
	Ant2	2437	14.27	≤30.00	PASS
	Ant1	2462	15.52	≤30.00	PASS
	Ant2	2462	12.86	≤30.00	PASS
11N20MIMO	Ant1	2412	14.73	≤30.00	PASS
	Ant2	2412	12.35	≤30.00	PASS
	total	2412	16.71	≤30.00	PASS
	Ant1	2437	12.77	≤30.00	PASS
	Ant2	2437	10.43	≤30.00	PASS
	total	2437	14.77	≤30.00	PASS
	Ant1	2462	12.85	≤30.00	PASS
	Ant2	2462	9.87	≤30.00	PASS
	total	2462	14.62	≤30.00	PASS
11N40MIMO	Ant1	2422	12.17	≤30.00	PASS
	Ant2	2422	8.86	≤30.00	PASS
	total	2422	13.83	≤30.00	PASS
	Ant1	2437	11.40	≤30.00	PASS
	Ant2	2437	8.77	≤30.00	PASS
	total	2437	13.29	≤30.00	PASS
	Ant1	2452	11.69	≤30.00	PASS
	Ant2	2452	8.16	≤30.00	PASS
	total	2452	13.28	≤30.00	PASS

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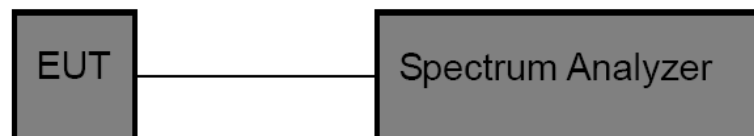
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set span to at least 1.5 times the OBW.
 - c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 - d) Set VBW $\geq [3 \times \text{RBW}]$.
 - e) Detector = power averaging (rms) or sample detector (when rms not available).
 - f) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - g) Sweep time = auto couple.
 - h) Employ trace averaging (rms) mode over a minimum of 100 traces.
 - i) Use the peak marker function to determine the maximum amplitude level.
 - j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

Test Mode

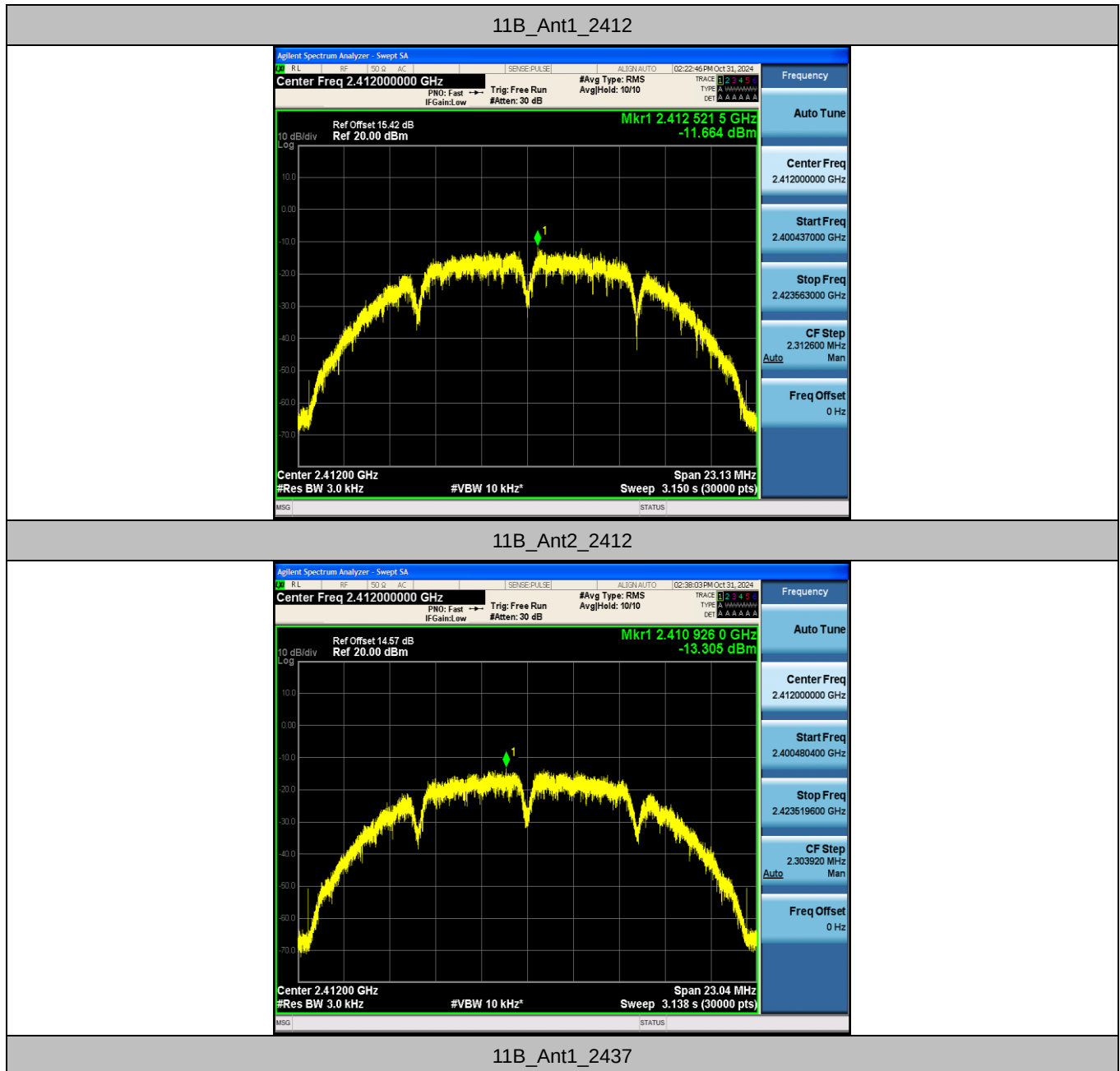
Please refer to the clause 2.4.

**Test Result**

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.66	≤8.00	PASS
	Ant2	2412	-13.31	≤8.00	PASS
	Ant1	2437	-13.23	≤8.00	PASS
	Ant2	2437	-12.53	≤8.00	PASS
	Ant1	2462	-14.45	≤8.00	PASS
	Ant2	2462	-13.31	≤8.00	PASS
11G	Ant1	2412	-14.68	≤8.00	PASS
	Ant2	2412	-12.65	≤8.00	PASS
	Ant1	2437	-13.29	≤8.00	PASS
	Ant2	2437	-14.53	≤8.00	PASS
	Ant1	2462	-14.63	≤8.00	PASS
	Ant2	2462	-15.84	≤8.00	PASS
11N20MIMO	Ant1	2412	-15.48	≤8.00	PASS
	Ant2	2412	-18.48	≤8.00	PASS
	total	2412	-13.72	≤8.00	PASS
	Ant1	2437	-16.34	≤8.00	PASS
	Ant2	2437	-19.63	≤8.00	PASS
	total	2437	-14.67	≤8.00	PASS
	Ant1	2462	-16.76	≤8.00	PASS
	Ant2	2462	-20.25	≤8.00	PASS
	total	2462	-15.15	≤8.00	PASS
11N40MIMO	Ant1	2422	-20.32	≤8.00	PASS
	Ant2	2422	-22.87	≤8.00	PASS
	total	2422	-18.40	≤8.00	PASS
	Ant1	2437	-21.62	≤8.00	PASS
	Ant2	2437	-23.65	≤8.00	PASS
	total	2437	-19.51	≤8.00	PASS
	Ant1	2452	-21.08	≤8.00	PASS
	Ant2	2452	-24.35	≤8.00	PASS
	total	2452	-19.40	≤8.00	PASS



Test plot as follows:



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