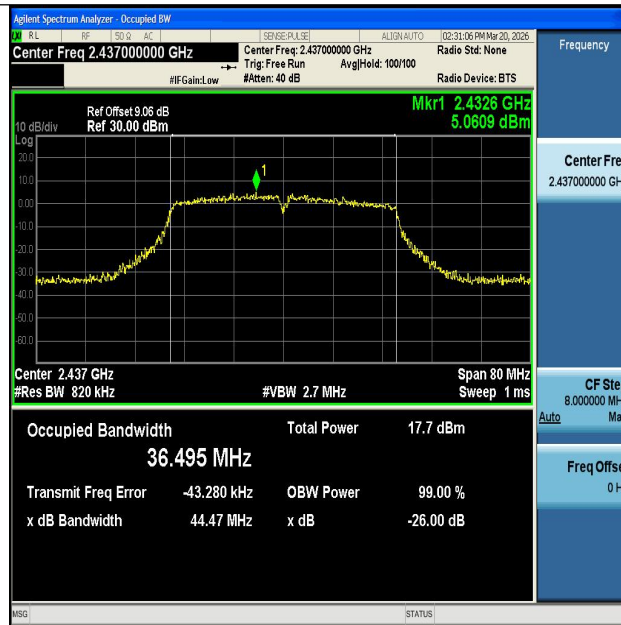
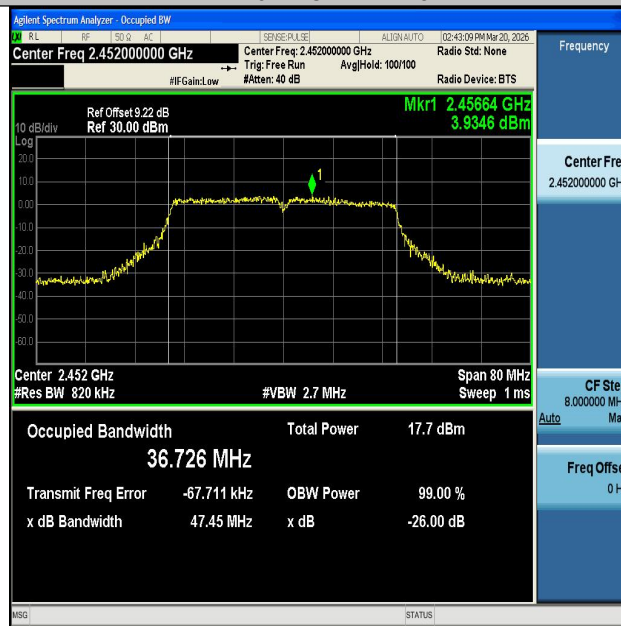


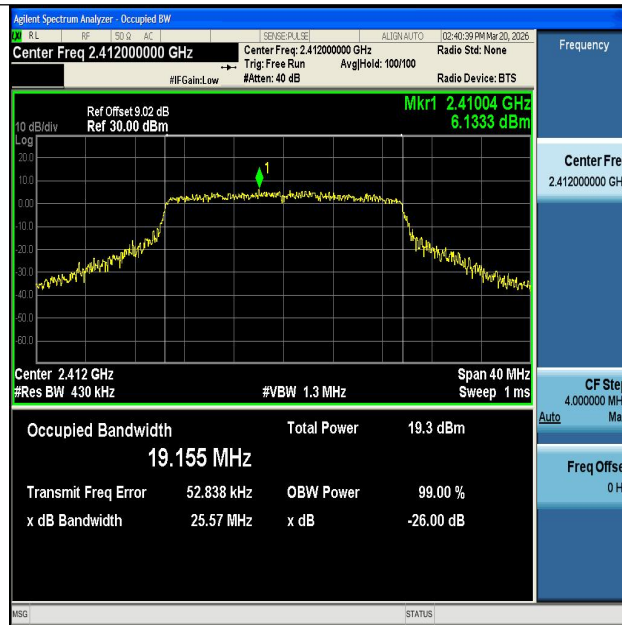


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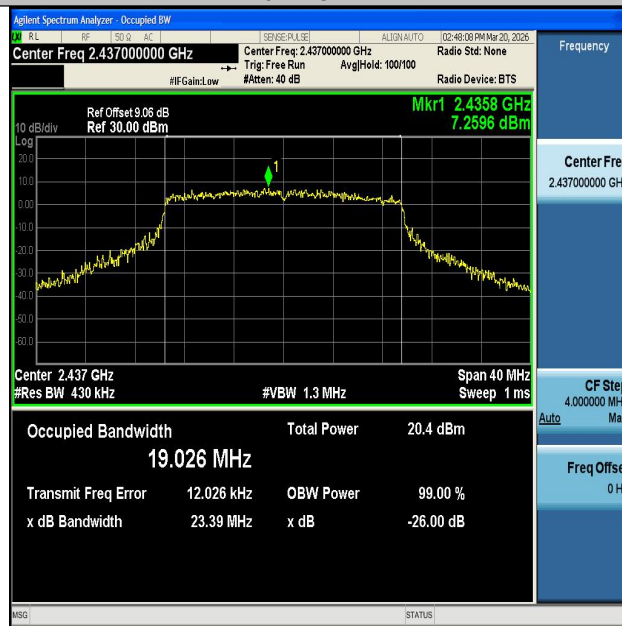


11N40SISO-Ant1-2452

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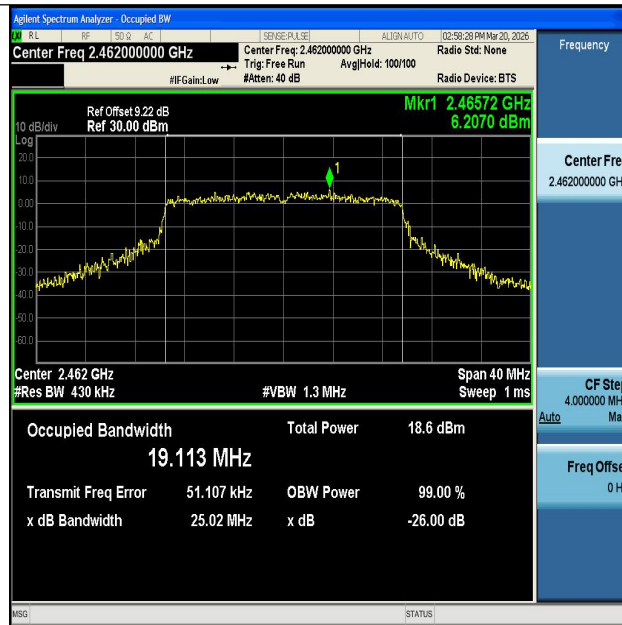
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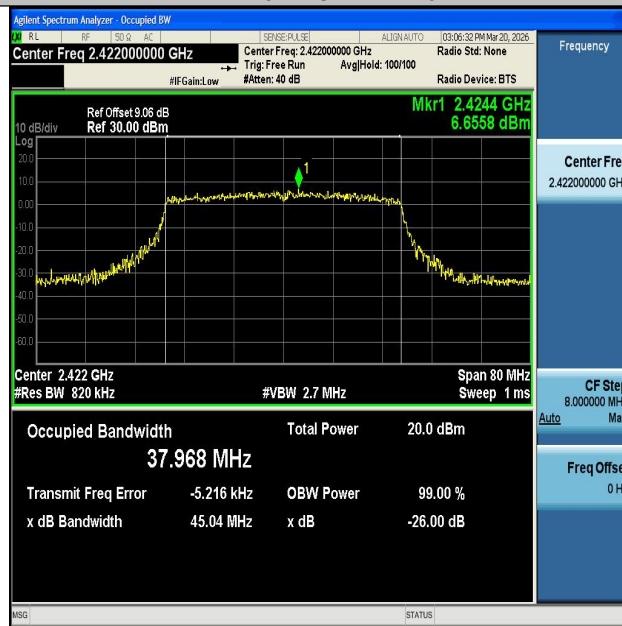
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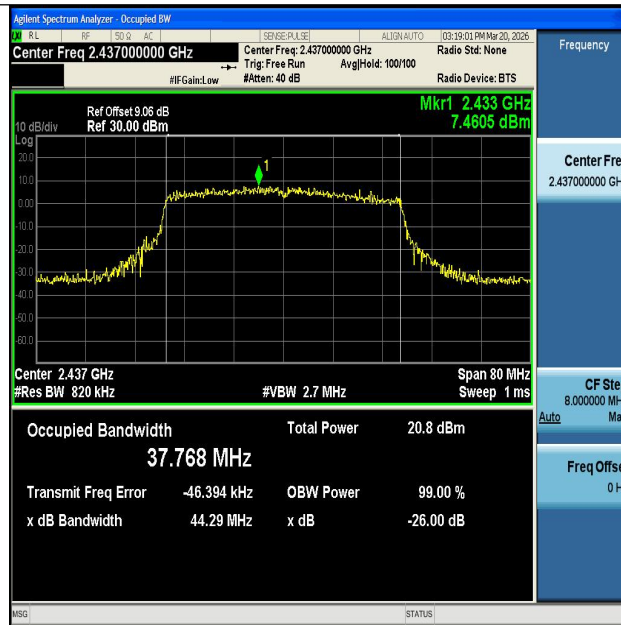


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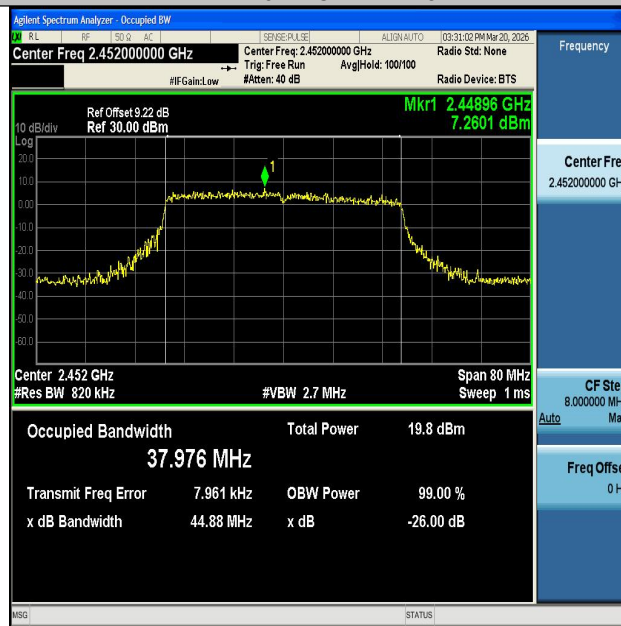


11AX40SISO-Ant1-2422

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11AX40SISO-Ant1-2452

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Test Graphs of DTS Bandwidth



11B-Ant1-2412-PASS



11B-Ant1-2437-PASS

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11B-Ant1-2462-PASS



11G-Ant1-2412-PASS

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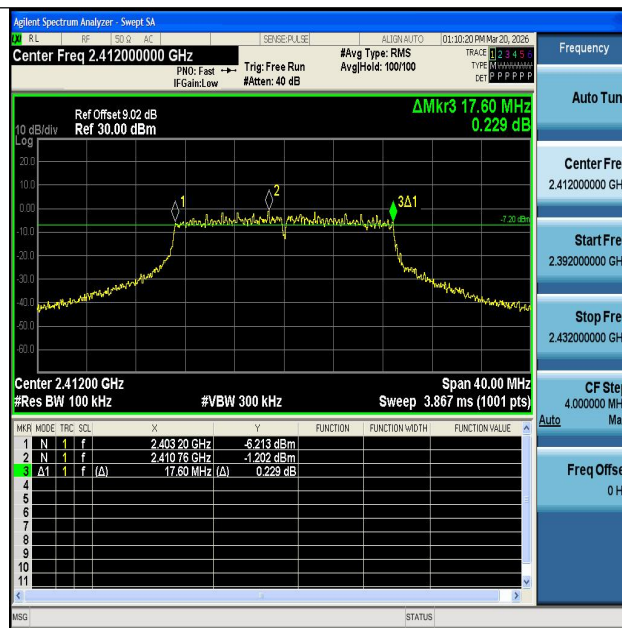
11G-Ant1-2437-PASS



11G-Ant1-2462-PASS

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11N20SISO-Ant1-2412-PASS



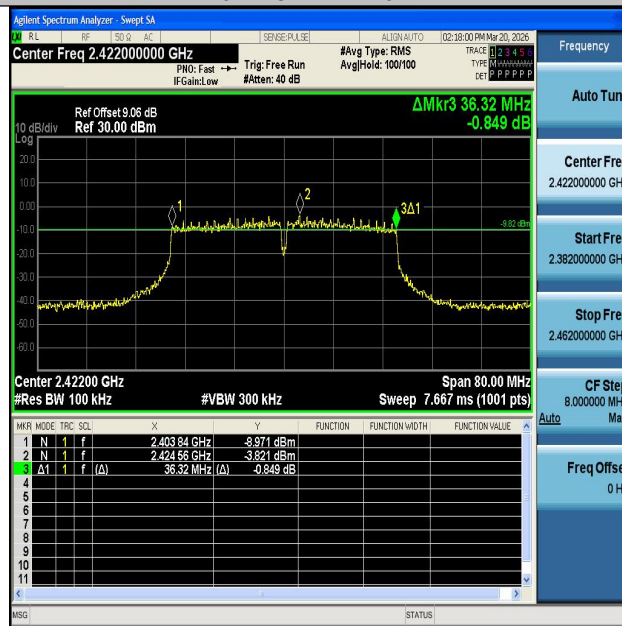
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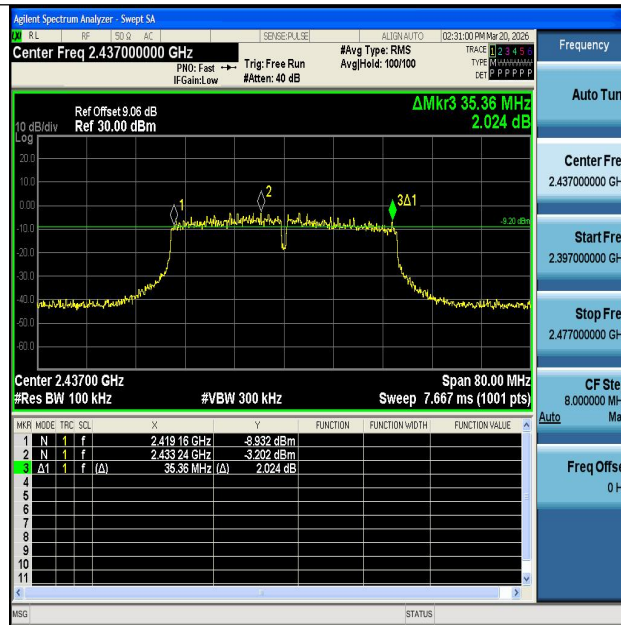
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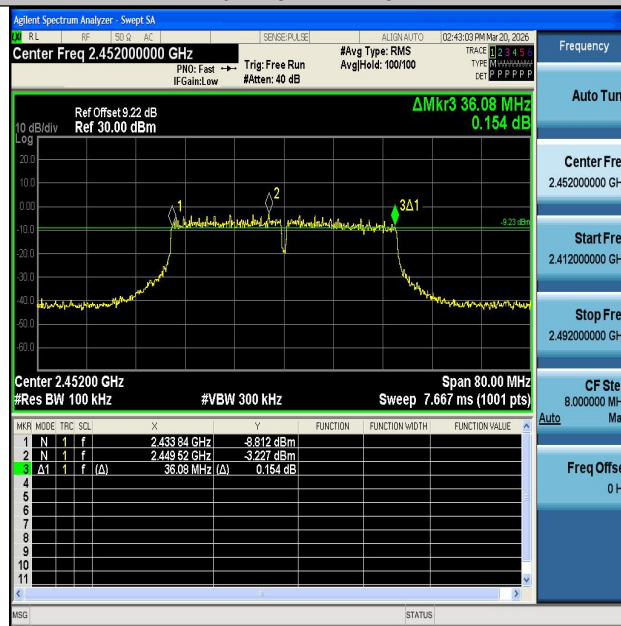
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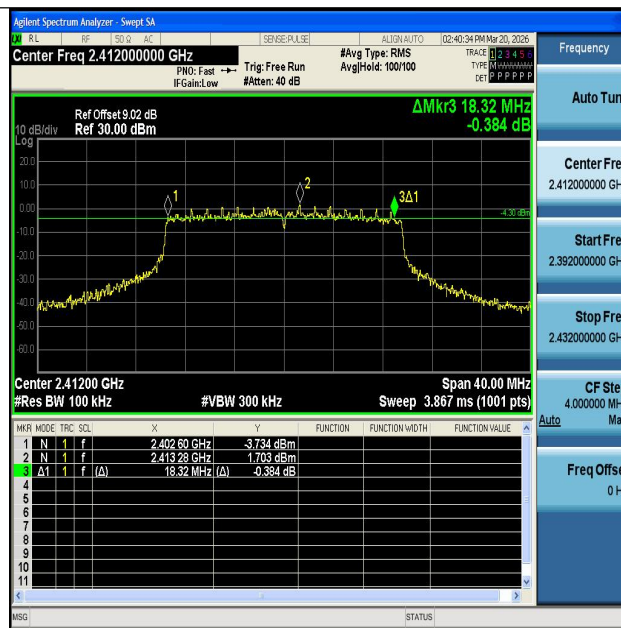
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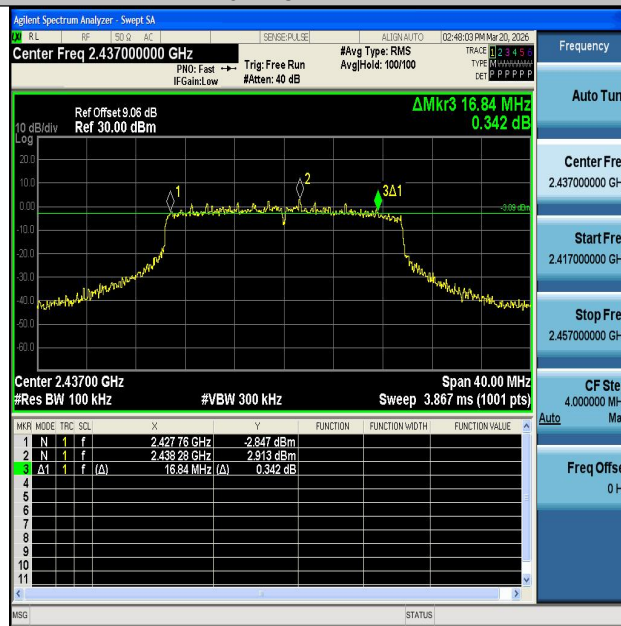
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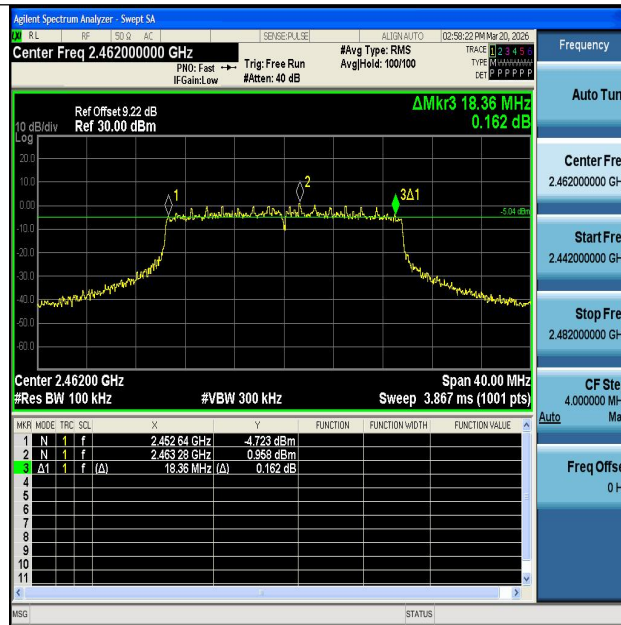
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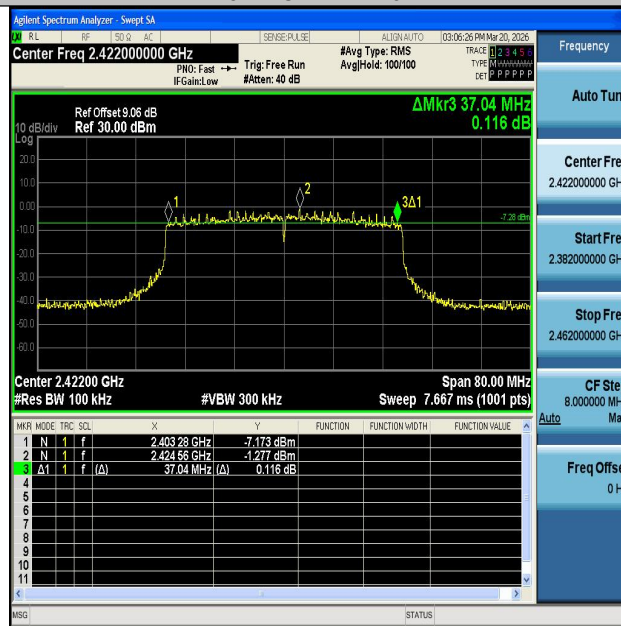
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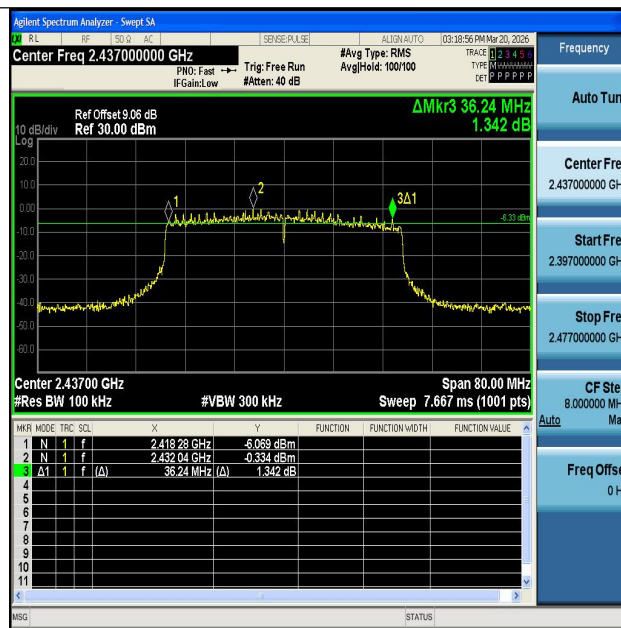
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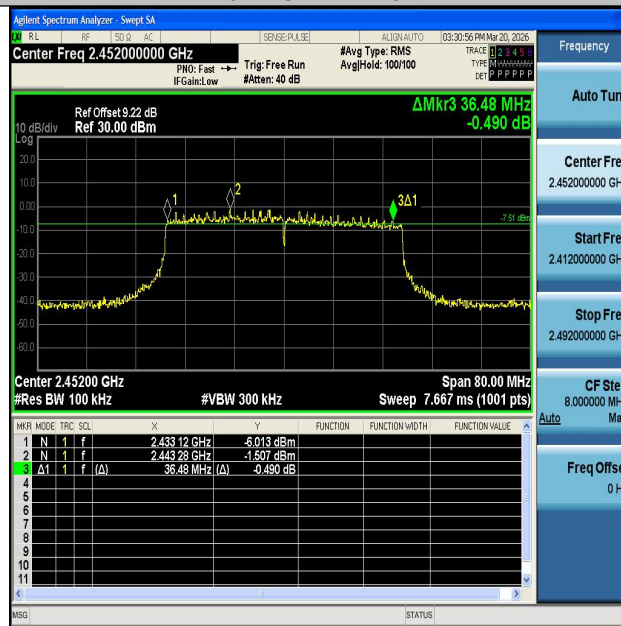
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9. Power Spectral Density Measurement

9.1 Provisions Applicable

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.

9.2 Measurement Procedure

☒ For Peak power spectral density test:

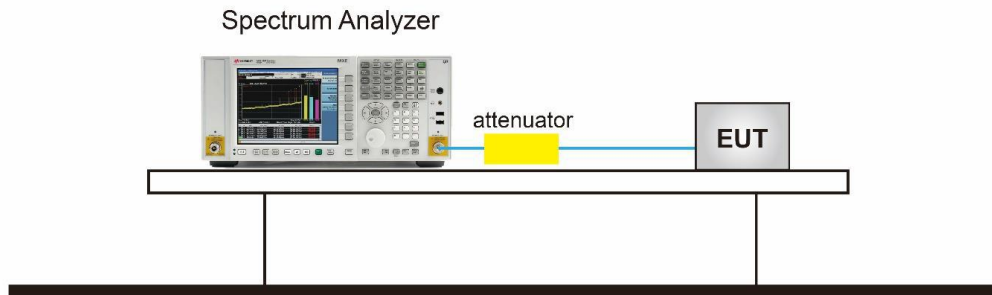
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set the RBW = 3 kHz.
4. Set the VBW $\geq [3 \times \text{RBW}]$.
5. Set the Span $\geq [1.5 \times \text{DTS bandwidth}]$.
6. Sweep time=Auto couple.
7. Detector function=Peak.
8. Trace Mode=Max hold.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$ is added to the measurement result.
10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
11. The indicated level is the peak output power, after any corrections for external attenuators and cables.

☐ For Average power spectral density test:

1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
3. Set Span to at least 1.5 times the OBW.
4. Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Sweep Time=Auto couple.
7. Detector function=RMS (i.e., power averaging).
8. Trace average at least 100 traces in power averaging (rms) mode.
9. When the measurement bandwidth of the maximum PSD is 3 kHz, a constant factor of $10 \cdot \log(3\text{kHz}/20\text{kHz}) = -8.23 \text{ dB}$ is added to the measurement result.
10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
11. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.
12. Record the test results in the report.

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9.3 Measurement Setup (Block Diagram of Configuration)



9.4 Measurement Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-3.55	≤8.00	PASS
11B	Ant1	2437	-2.64	≤8.00	PASS
11B	Ant1	2462	-4.49	≤8.00	PASS
11G	Ant1	2412	-13.36	≤8.00	PASS
11G	Ant1	2437	-12.20	≤8.00	PASS
11G	Ant1	2462	-13.08	≤8.00	PASS
11N20SISO	Ant1	2412	-14.41	≤8.00	PASS
11N20SISO	Ant1	2437	-12.58	≤8.00	PASS
11N20SISO	Ant1	2462	-13.66	≤8.00	PASS
11N40SISO	Ant1	2422	-16.77	≤8.00	PASS
11N40SISO	Ant1	2437	-15.71	≤8.00	PASS
11N40SISO	Ant1	2452	-16.37	≤8.00	PASS
11AX20SISO	Ant1	2412	-12.38	≤8.00	PASS
11AX20SISO	Ant1	2437	-11.07	≤8.00	PASS
11AX20SISO	Ant1	2462	-13.75	≤8.00	PASS
11AX40SISO	Ant1	2422	-15.40	≤8.00	PASS
11AX40SISO	Ant1	2437	-13.61	≤8.00	PASS
11AX40SISO	Ant1	2452	-15.52	≤8.00	PASS

Note:

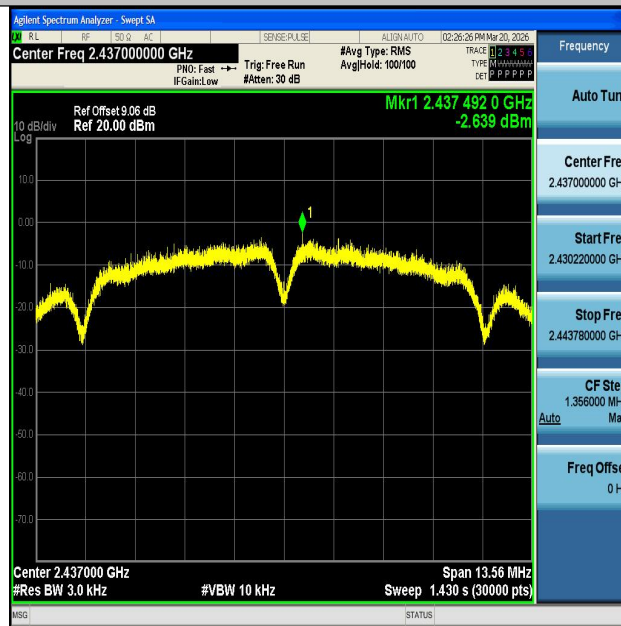
- The Total Power Spectral Density (dBm) = $10 \cdot \log \{10^{(\text{Ant1 PSD} / 10)} + 10^{(\text{Ant2 PSD} / 10)}\}$.

Test Graphs of Conducted Output Power Spectral Density

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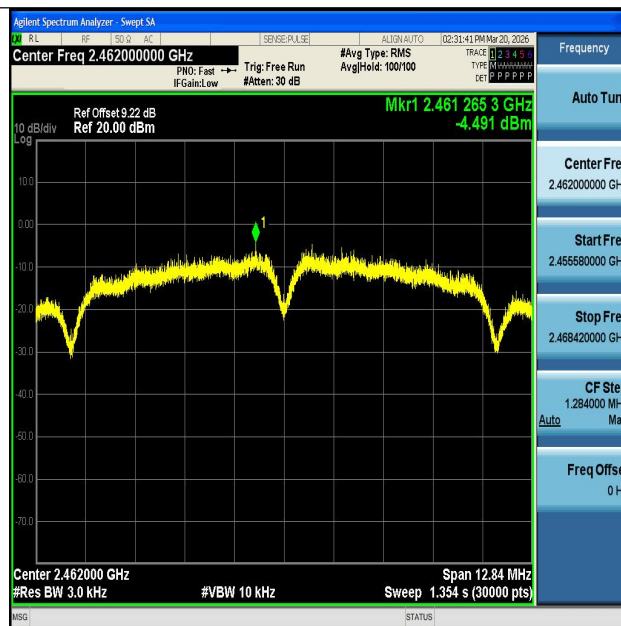
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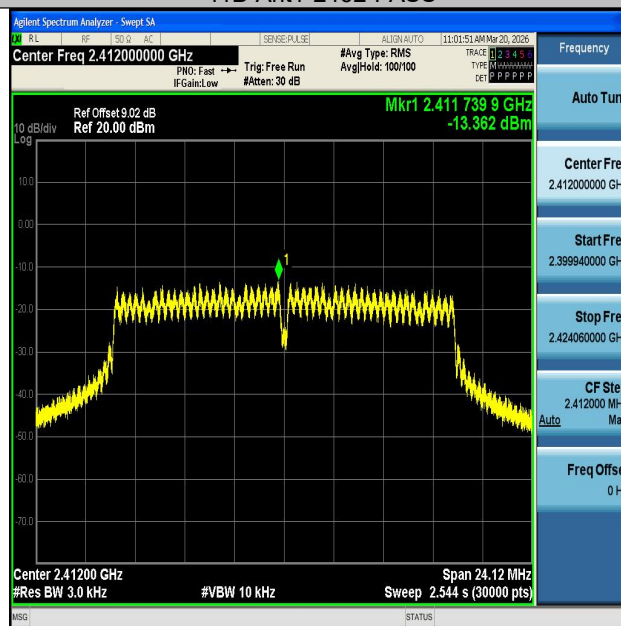
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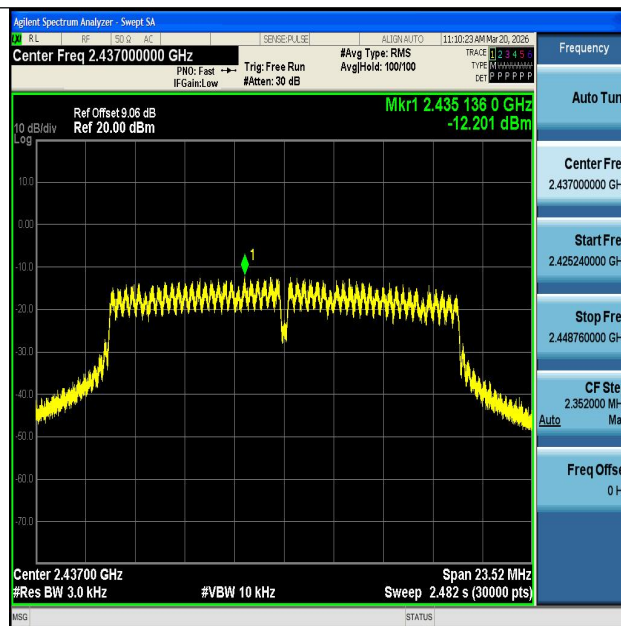
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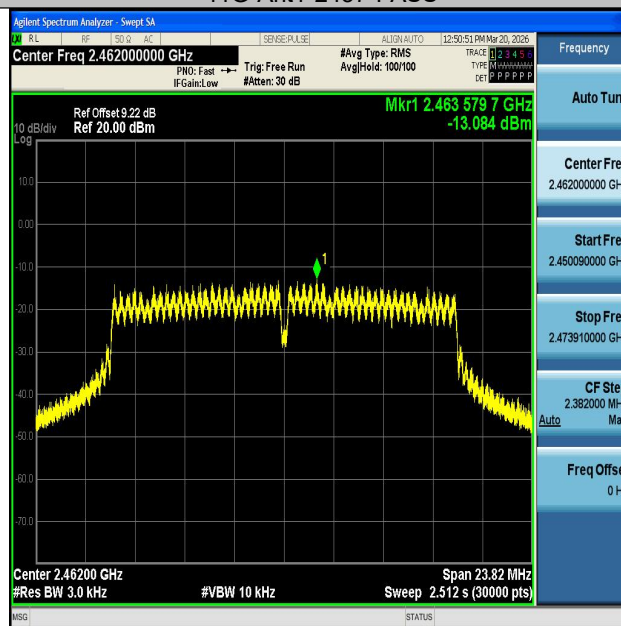
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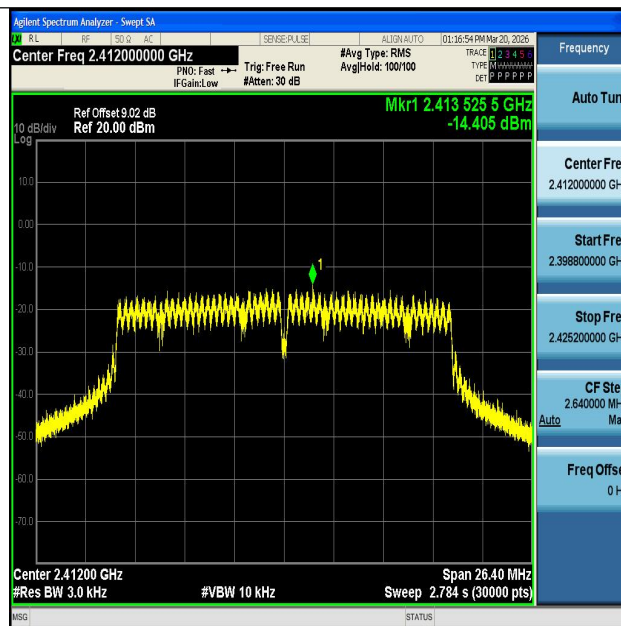
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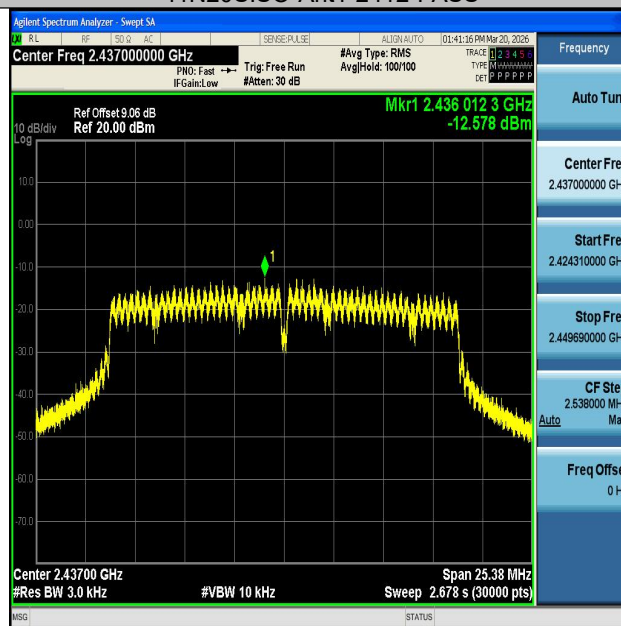
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