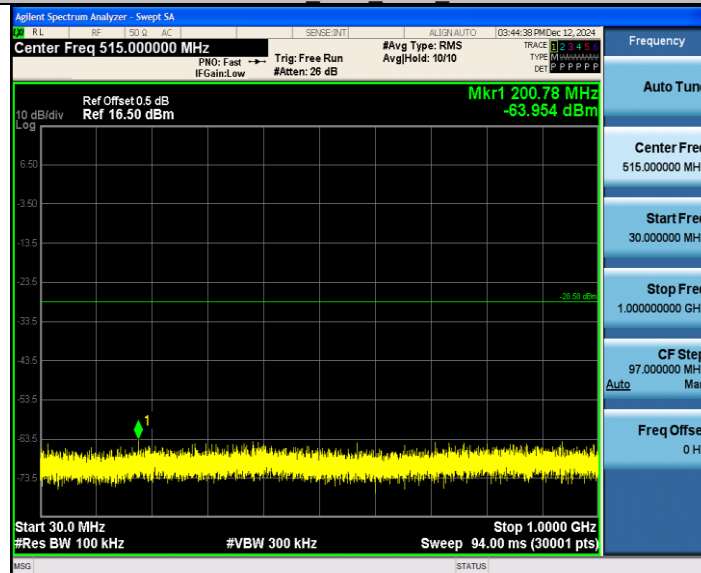
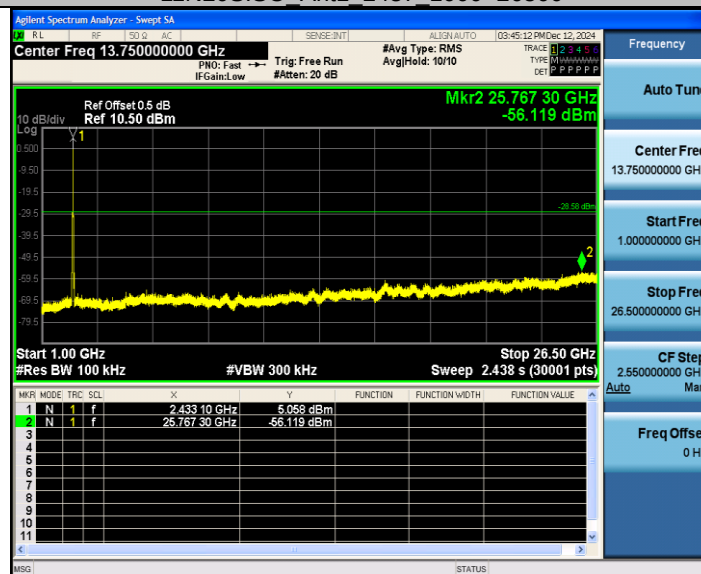




11N20SISO_Ant1_2437_30~1000



11N20SISO_Ant1_2437_1000~26500



11N20SISO_Ant1_2462_0~Reference

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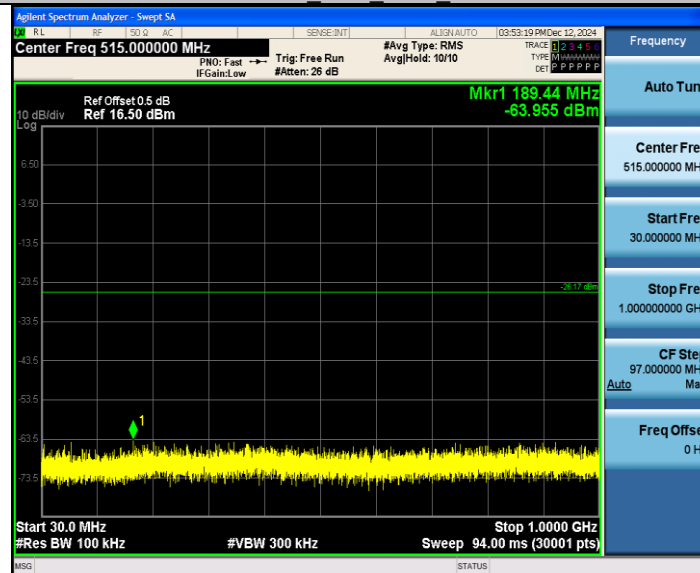
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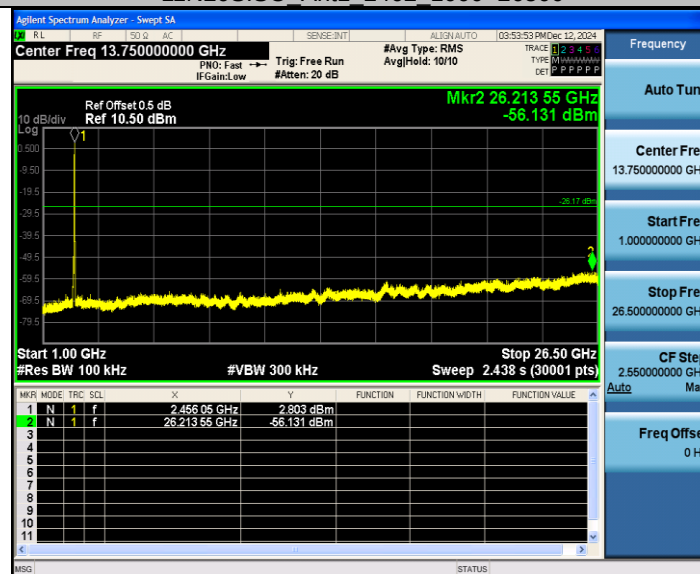
For anti-fake verification, please visit the official website of China Inspection And Testing Society : yz.cnca.cn



11N20SISO_Ant1_2462_30~1000



11N20SISO_Ant1_2462_1000~26500



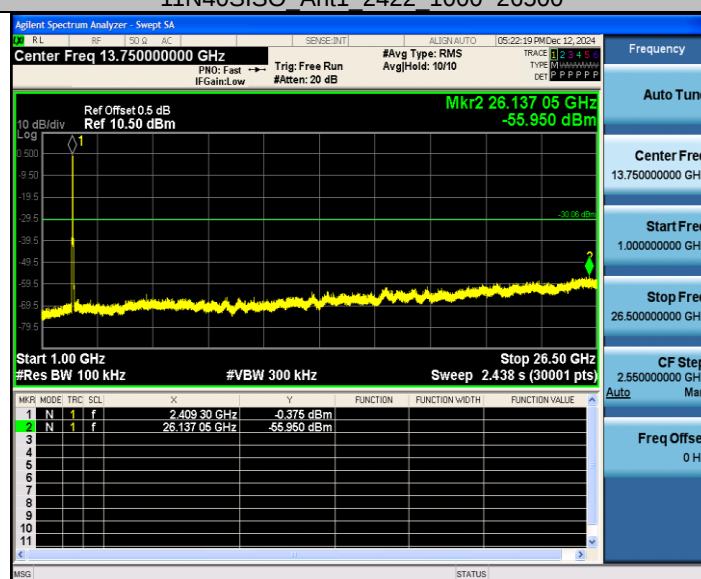
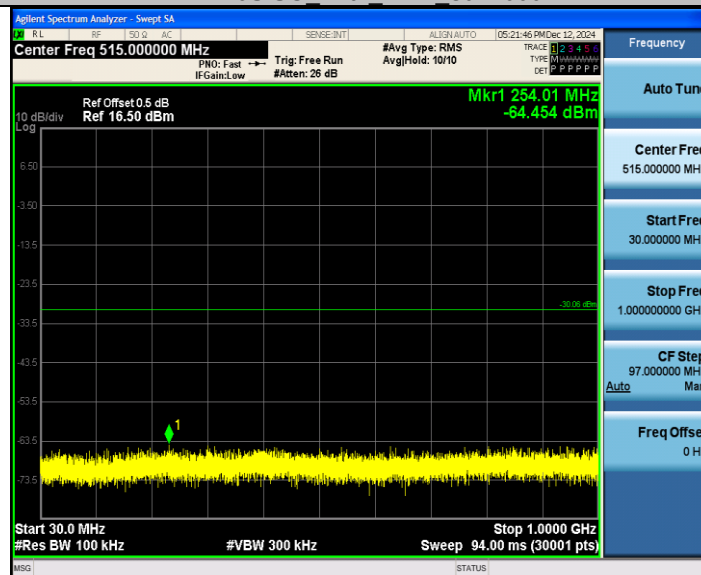
11N40SISO_Ant1_2422_0~Reference

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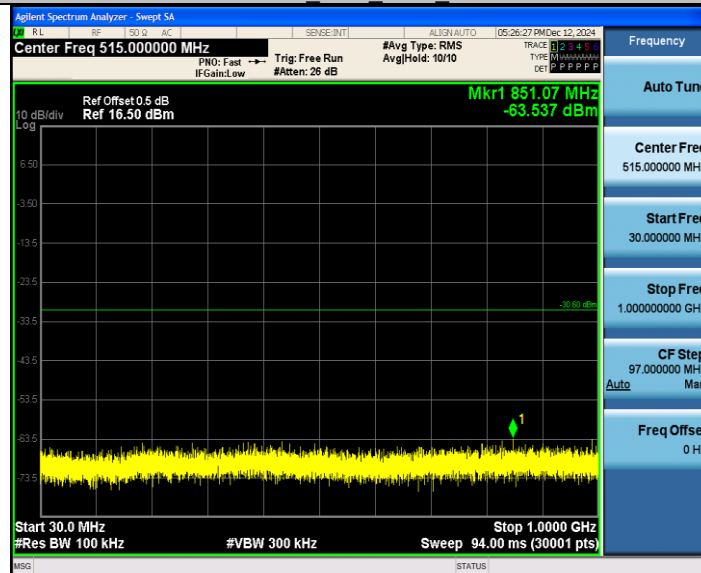
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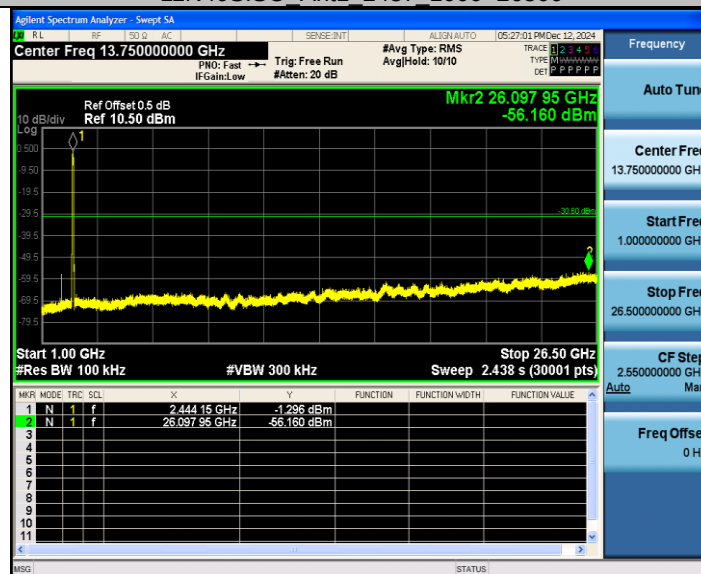
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11N40SISO_Ant1_2437_30~1000



11N40SISO_Ant1_2437_1000~26500



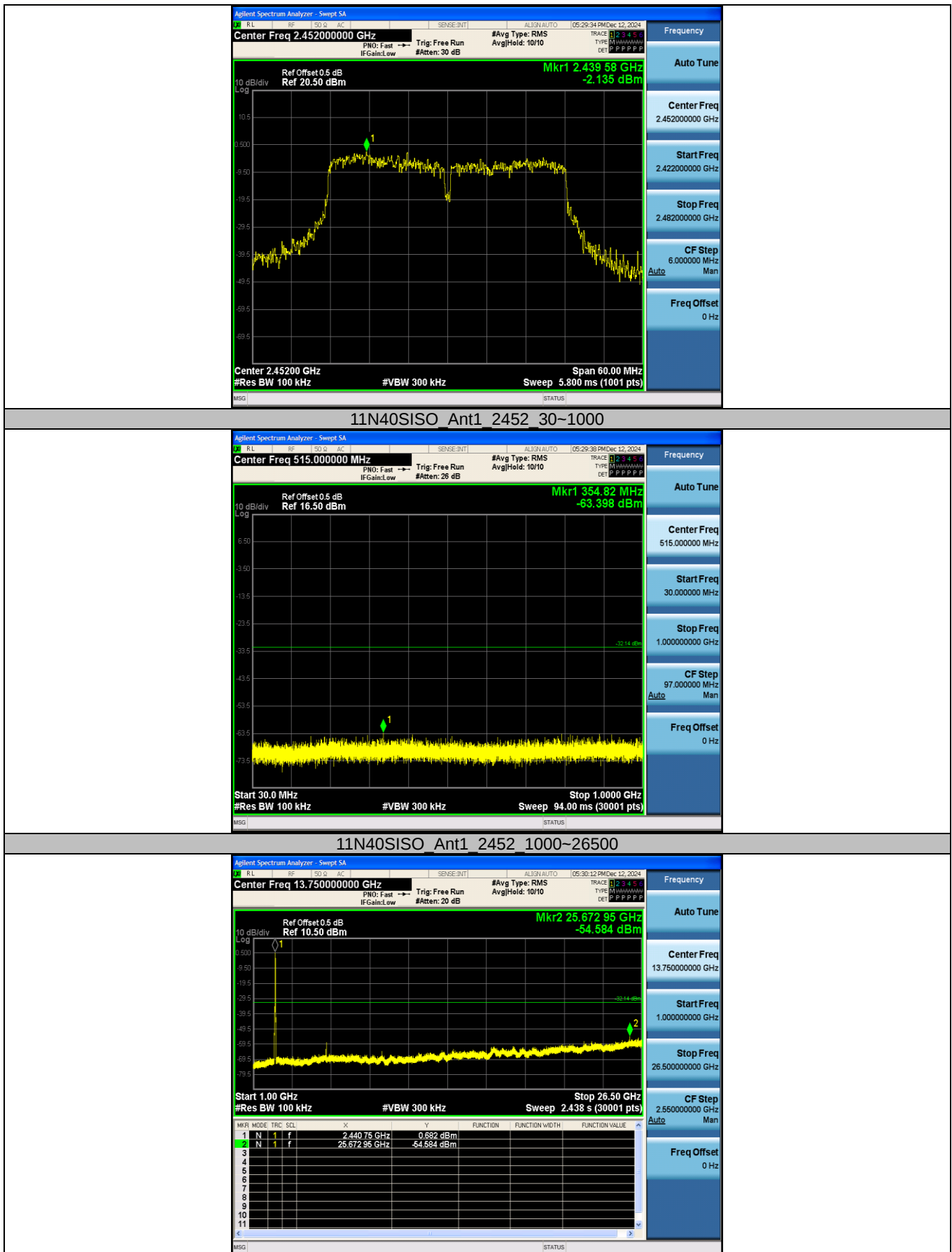
11N40SISO_Ant1_2452_0~Reference

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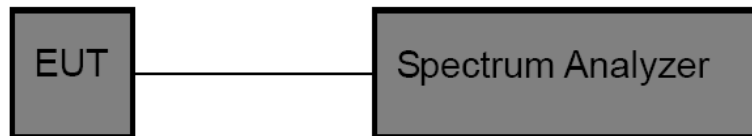
3.5. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2) / RSS-247 5.2 a

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**

Test Mode	Frequency (MHz)	99% Bandwidth (MHz)	DTS Bandwidth (MHz)	Limit (MHz)	Verdict
802.11b	2412	13.151	8.040	≥0.5	Pass
	2437	12.819	8.560	≥0.5	Pass
	2462	12.974	8.040	≥0.5	Pass
802.11g	2412	17.249	16.400	≥0.5	Pass
	2437	17.118	15.920	≥0.5	Pass
	2462	17.326	16.120	≥0.5	Pass
802.11n(HT20)	2412	18.324	16.360	≥0.5	Pass
	2437	18.169	17.120	≥0.5	Pass
	2462	18.336	17.280	≥0.5	Pass
802.11n(HT40)	2422	36.628	35.120	≥0.5	Pass
	2437	35.984	35.040	≥0.5	Pass
	2452	36.702	35.440	≥0.5	Pass

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99% Bandwidth:



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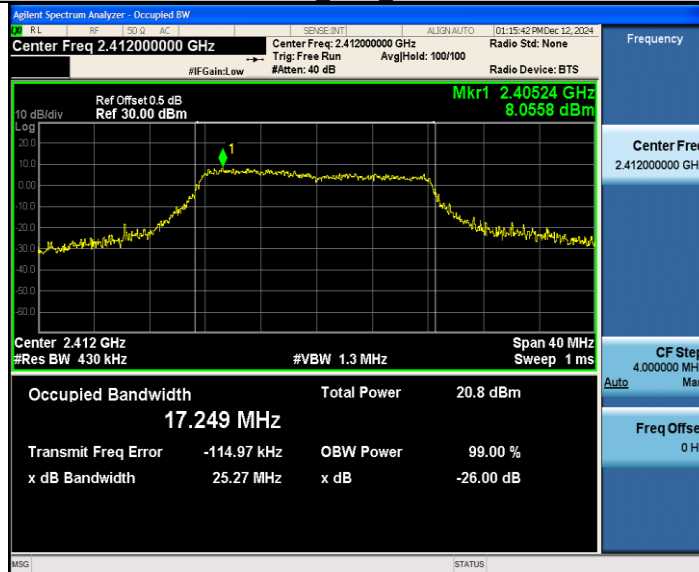
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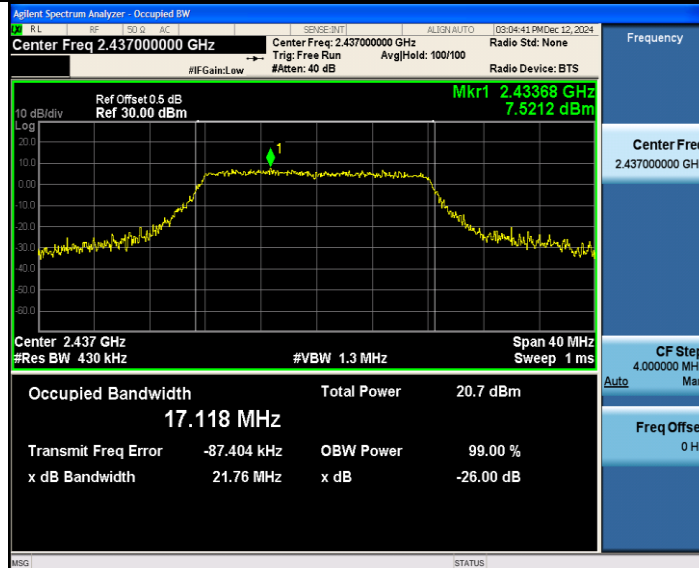
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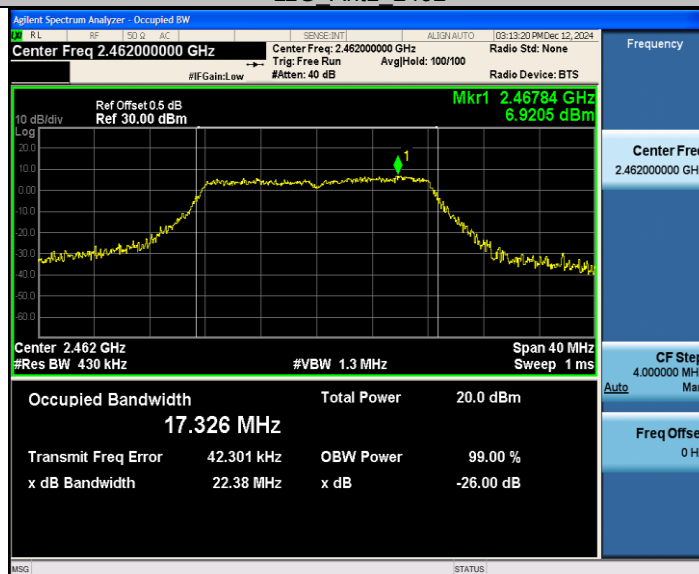
11G Ant1 2412



11G Ant1 2437



11G Ant1 2462



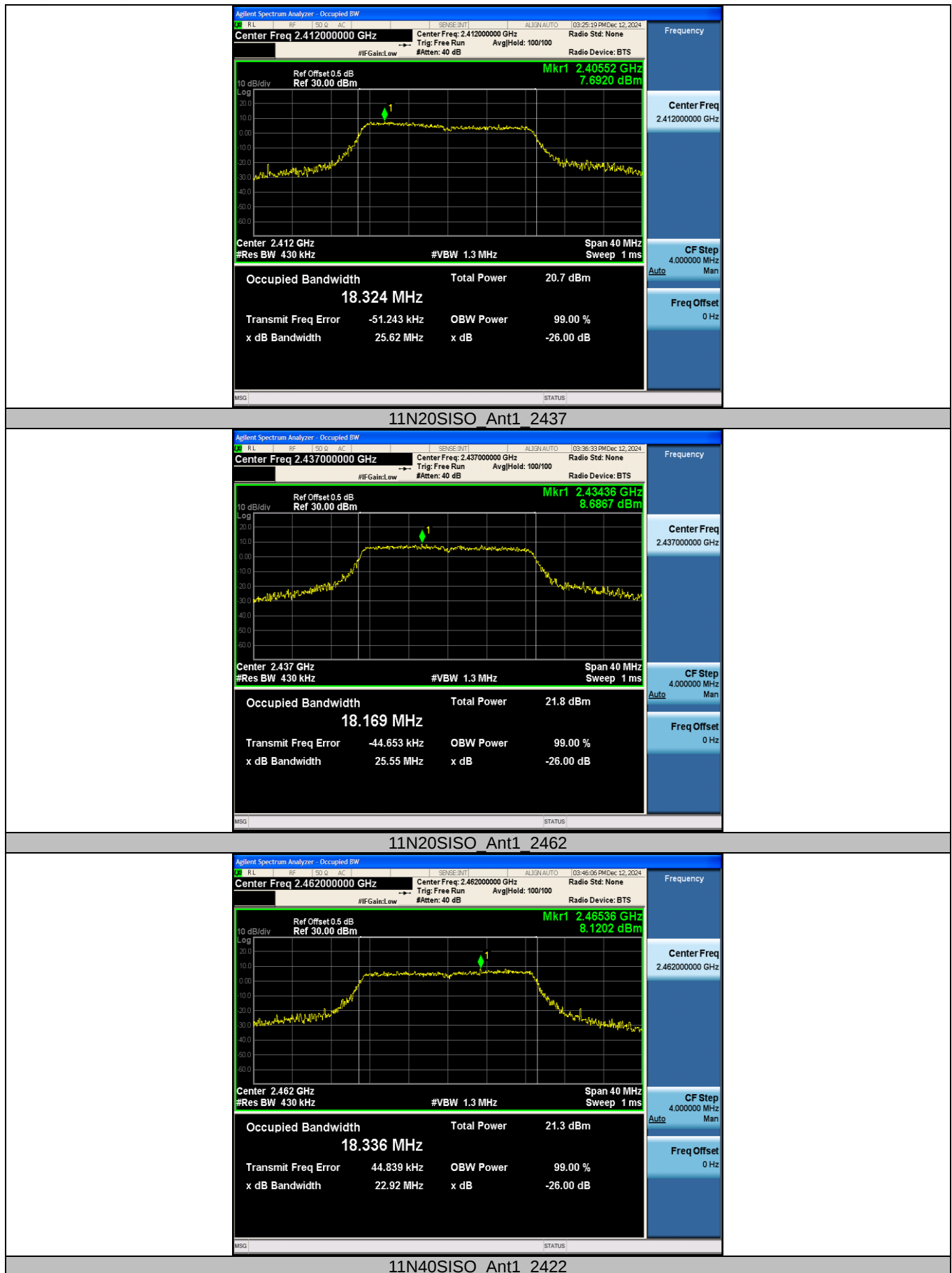
11N20SISO Ant1 2412

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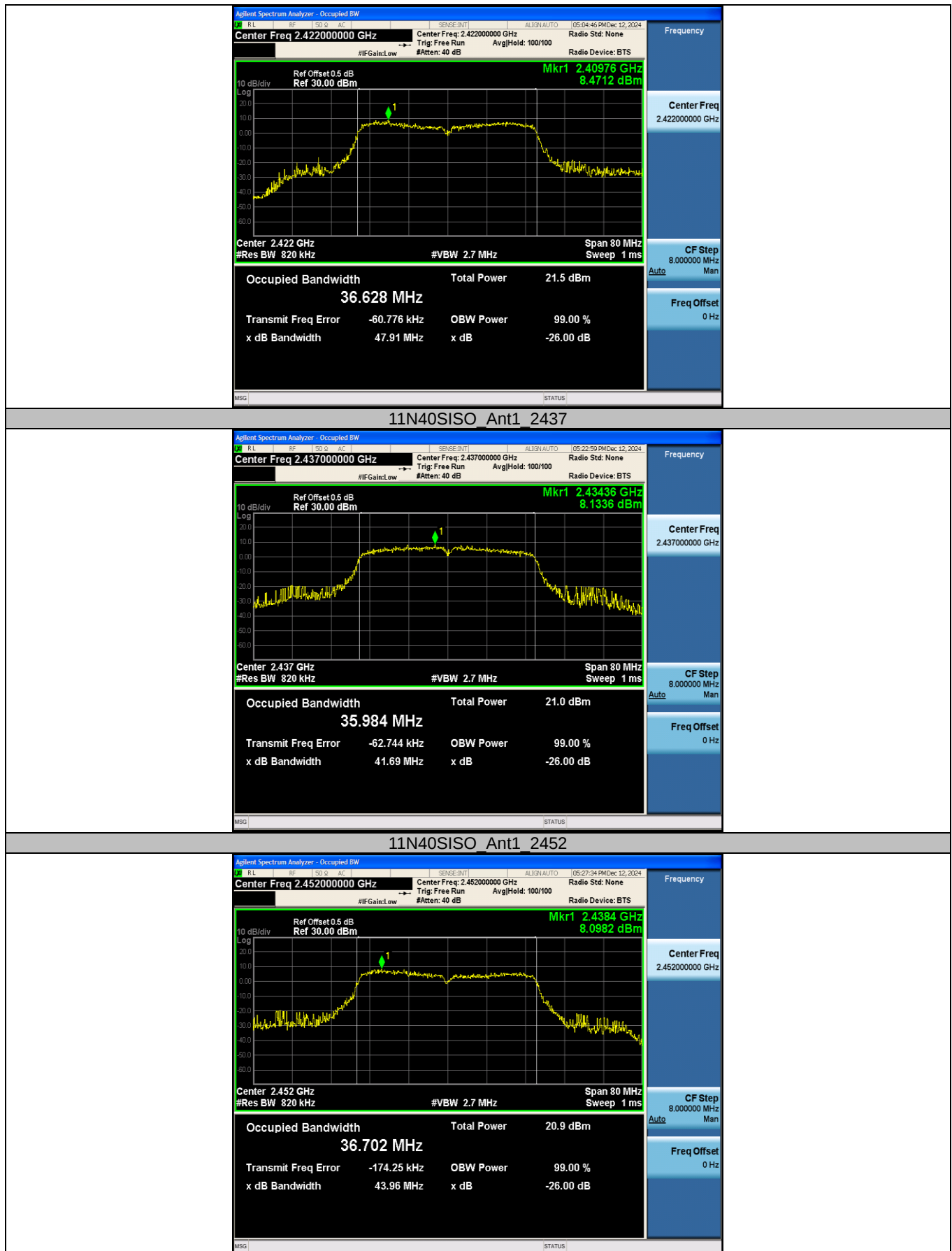


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DTS Bandwidth:



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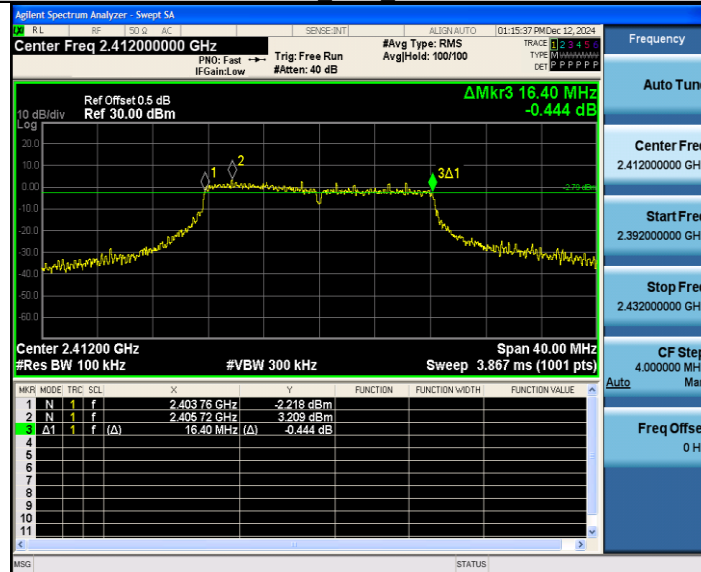
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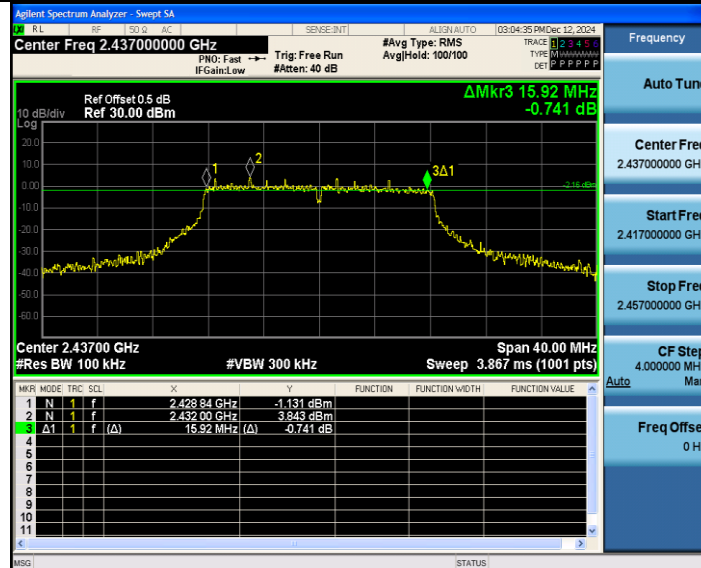
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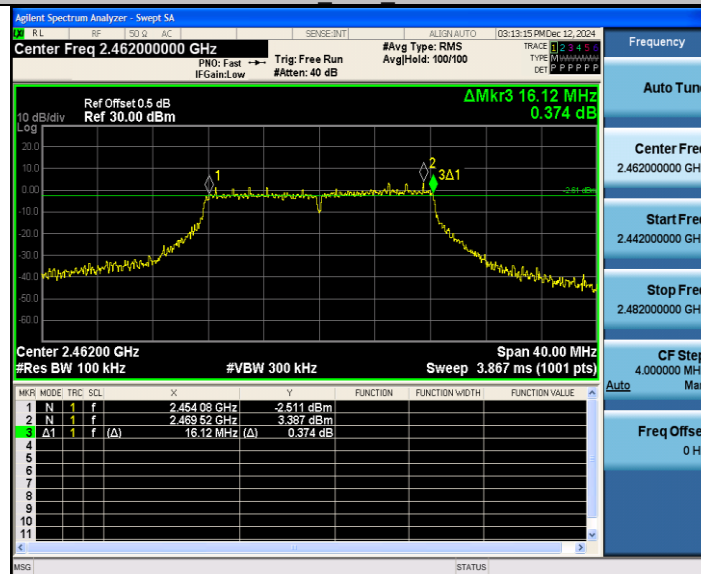
11G Ant1 2412



11G Ant1 2437



11G Ant1 2462



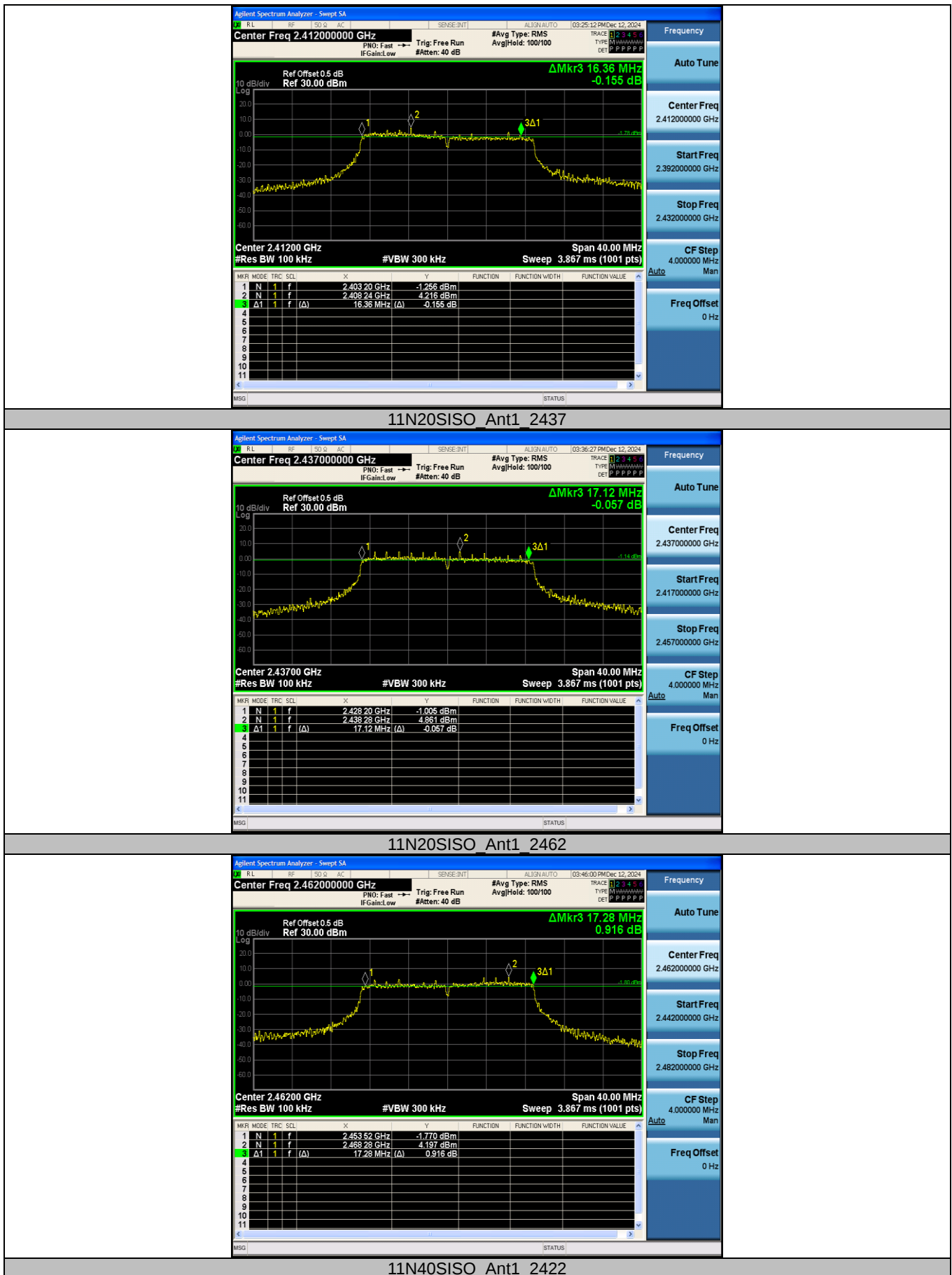
11N20SISO Ant1 2412

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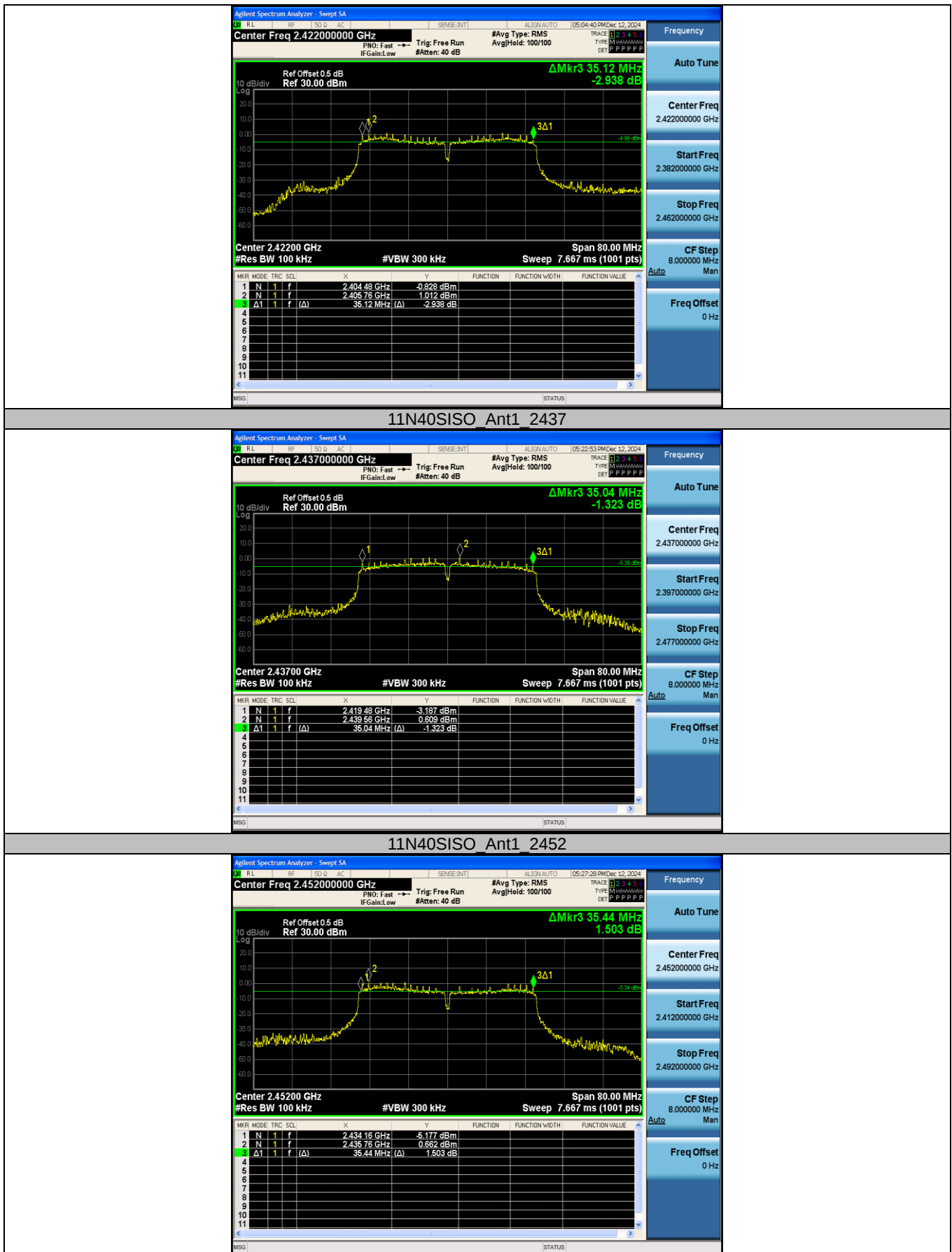


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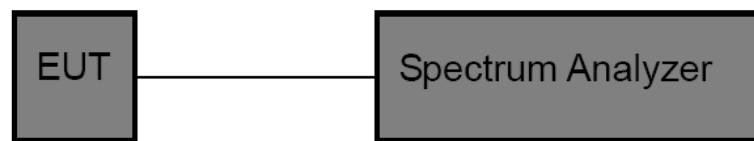
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3) / RSS-247 5.4 d

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part 15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5
ISED RSS-247 5.4 d	EIRP	4 Watt or 36dBm	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. Spectrum Setting:
 - (1) Set RBW > 20dB Bandwidth.
 - (2) Set VBW ≥ RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.
 - (6) Span = Approximately five times the 20dB bandwidth, centered on a hopping channel.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Frequency (MHz)	Conducted Output Power (dBm)	Antenna Gain (dBi)	E.I.R.P (dBm)	FCC Limit (dBm)	ISED Limit (dBm)	Verdict
802.11b	2412	15.79	3.24	19.03	≤30	≤36	Pass
	2437	15.77	3.24	19.01	≤30	≤36	Pass
	2462	15.52	3.24	18.76	≤30	≤36	Pass
802.11g	2412	14.84	3.24	18.08	≤30	≤36	Pass
	2437	14.82	3.24	18.06	≤30	≤36	Pass
	2462	14.77	3.24	18.01	≤30	≤36	Pass
802.11n(HT20)	2412	14.88	3.24	18.12	≤30	≤36	Pass
	2437	15.84	3.24	19.08	≤30	≤36	Pass
	2462	15.34	3.24	18.58	≤30	≤36	Pass
802.11n(HT40)	2422	13.30	3.24	16.54	≤30	≤36	Pass
	2437	13.93	3.24	17.17	≤30	≤36	Pass
	2452	13.88	3.24	17.12	≤30	≤36	Pass



Test plot as follows:



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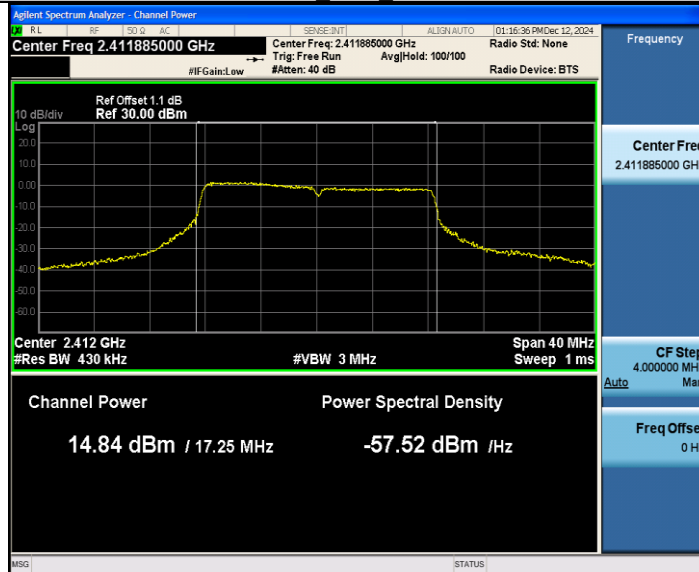
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11G Ant1 2412



11G Ant1 2437



11G Ant1 2462



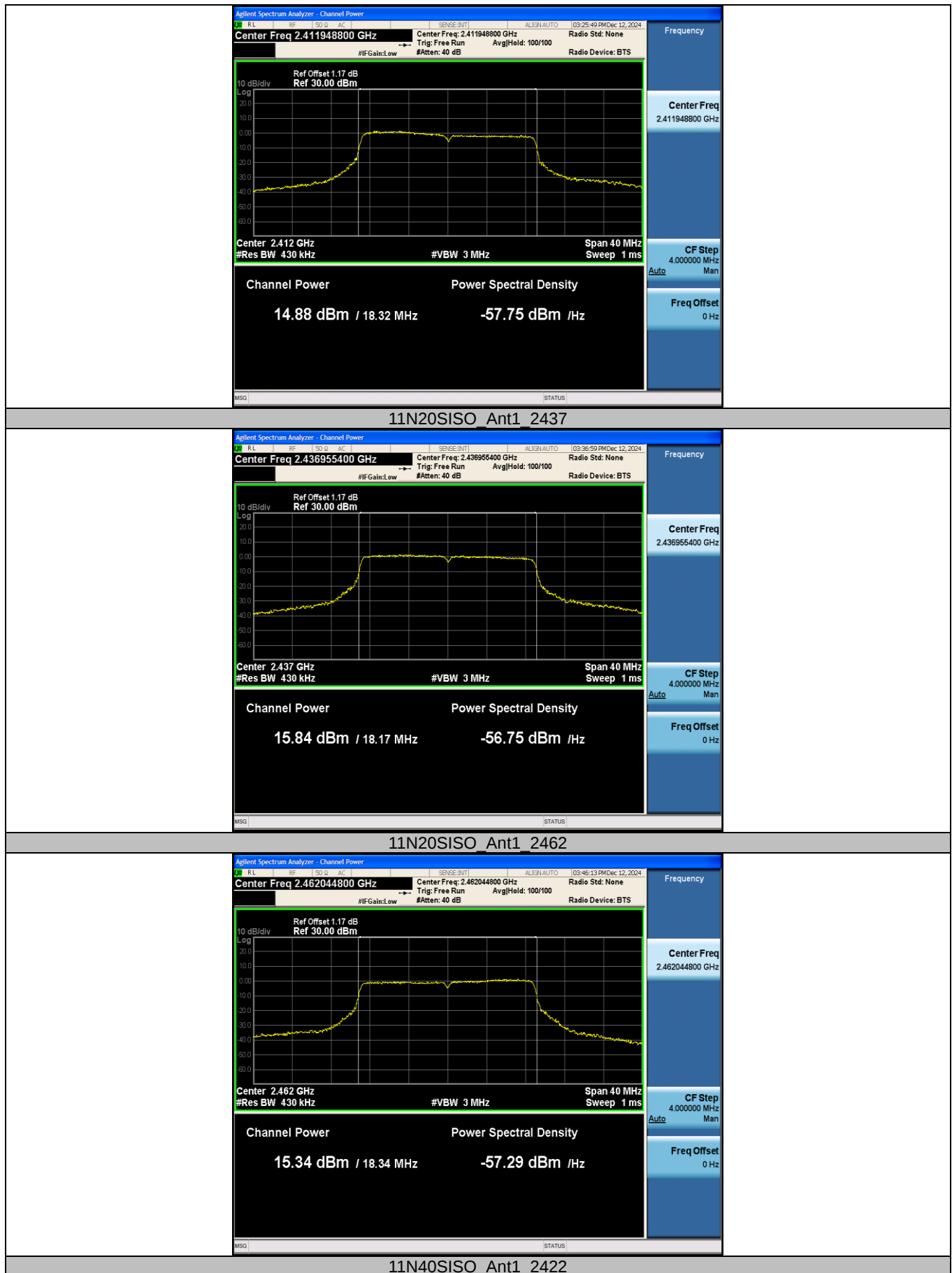
11N20SISO Ant1 2412

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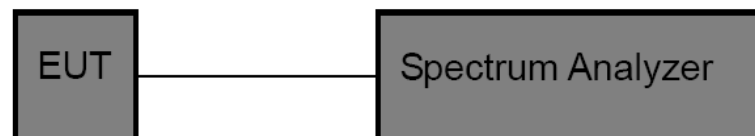
3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e) / RSS-247 5.2 b

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:
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.
Detector: peak.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	2412	-15.14	≤8	Pass
	2437	-15.41	≤8	Pass
	2462	-15.86	≤8	Pass
802.11g	2412	-18.43	≤8	Pass
	2437	-19.12	≤8	Pass
	2462	-17.51	≤8	Pass
802.11n(HT20)	2412	-17.61	≤8	Pass
	2437	-18.02	≤8	Pass
	2462	-17.27	≤8	Pass
802.11n(HT40)	2422	-16.58	≤8	Pass
	2437	-16.99	≤8	Pass
	2452	-15.17	≤8	Pass

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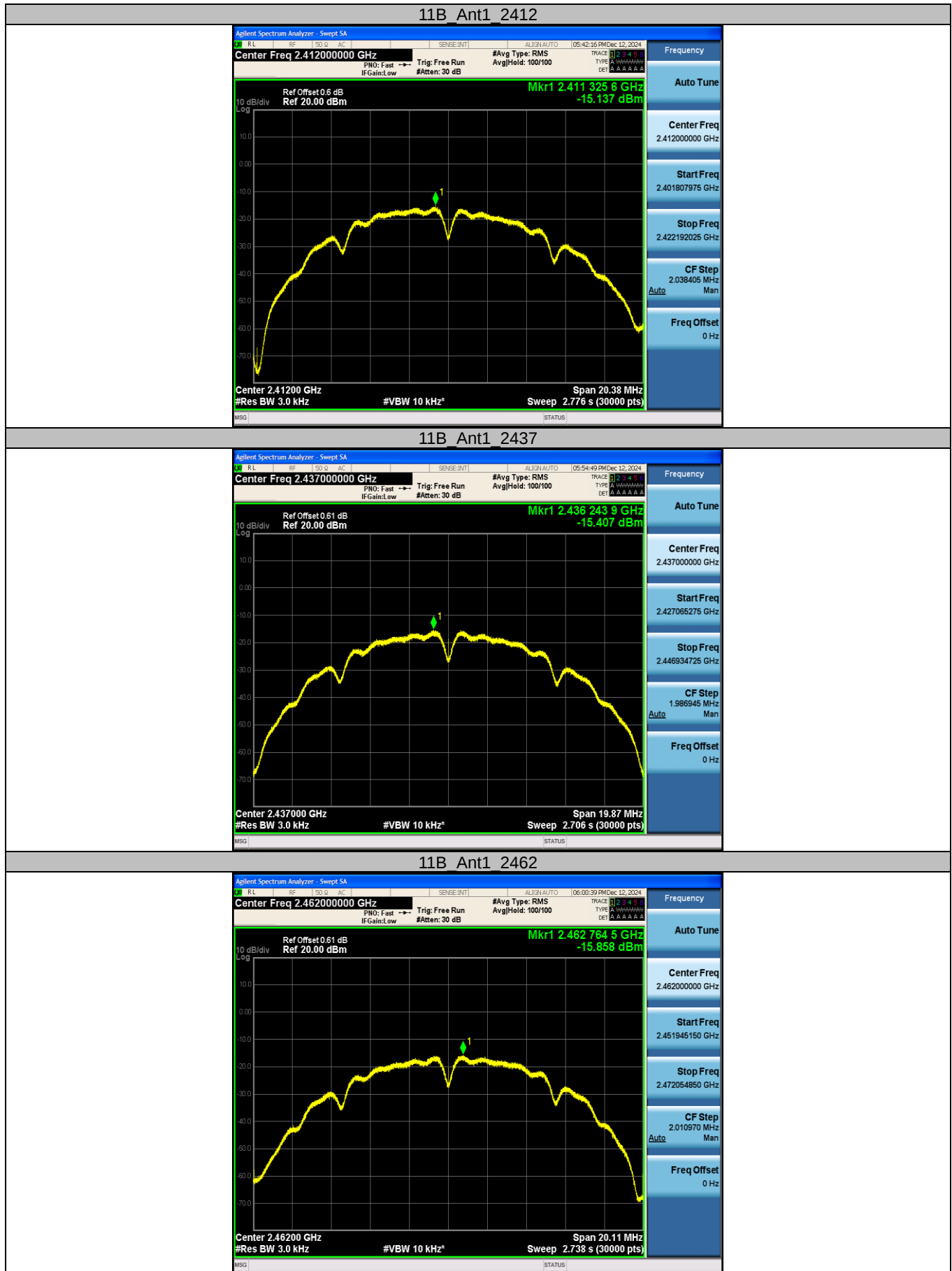
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Test plot as follows:



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