

Appendix Test Data

Report No.:	1813C50044712503	Test Sample No.:	1-2-2
Start Test Date:	2025.2.14	Finish Test Date:	2025.2.21
Test Engineer:	<i>Liangfei Yang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	20.5°C	Relative Humidity:	45%
Pressure:	101kPa		

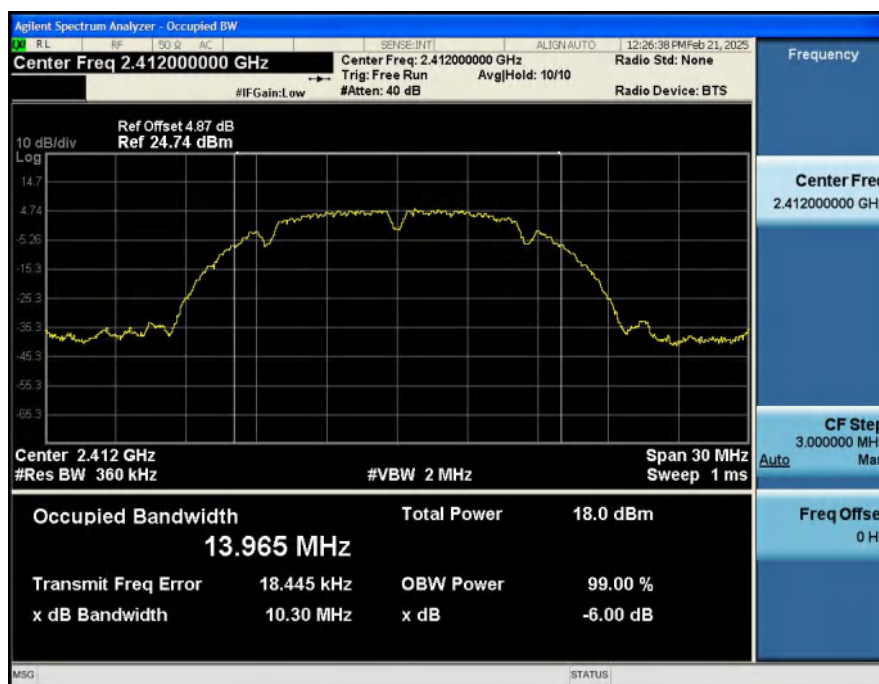
Appendix A: -6dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-6dB BW(MHz)	limit(kHz)	Result
NVNT	ANT1	802.11b	2412.00	10.30	500	Pass
NVNT	ANT2	802.11b	2412.00	10.32	500	Pass
NVNT	ANT1	802.11b	2437.00	10.32	500	Pass
NVNT	ANT2	802.11b	2437.00	10.29	500	Pass
NVNT	ANT1	802.11b	2462.00	10.31	500	Pass
NVNT	ANT2	802.11b	2462.00	10.31	500	Pass
NVNT	ANT1	802.11g	2412.00	14.98	500	Pass
NVNT	ANT2	802.11g	2412.00	14.15	500	Pass
NVNT	ANT1	802.11g	2437.00	14.97	500	Pass
NVNT	ANT2	802.11g	2437.00	14.11	500	Pass
NVNT	ANT1	802.11g	2462.00	14.98	500	Pass
NVNT	ANT2	802.11g	2462.00	14.09	500	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	16.27	500	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	16.06	500	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	16.08	500	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	16.08	500	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	15.83	500	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	16.01	500	Pass
NVNT	ANT1	802.11ax(HEW20)	2412.00	14.87	500	Pass
NVNT	ANT2	802.11ax(HEW20)	2412.00	14.86	500	Pass
NVNT	ANT1	802.11ax(HEW20)	2437.00	13.98	500	Pass
NVNT	ANT2	802.11ax(HEW20)	2437.00	13.91	500	Pass
NVNT	ANT1	802.11ax(HEW20)	2462.00	14.02	500	Pass
NVNT	ANT2	802.11ax(HEW20)	2462.00	13.87	500	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	33.48	500	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	35.14	500	Pass

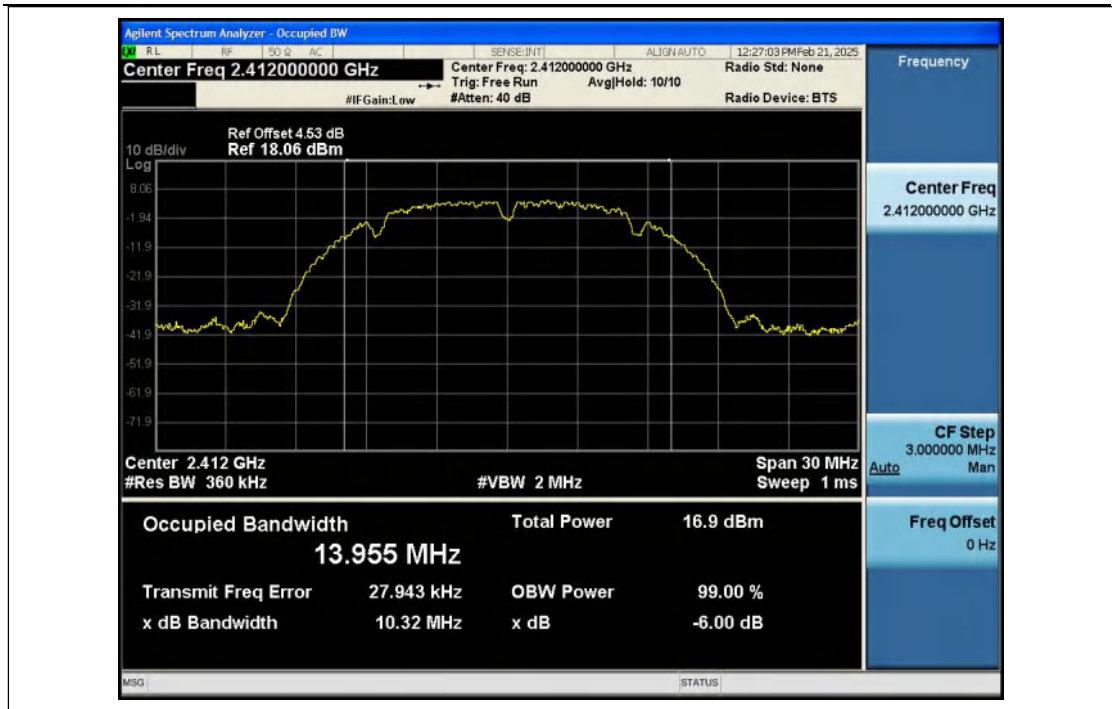
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NVNT	ANT1	802.11n(HT40)	2437.00	33.46	500	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	35.07	500	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	35.46	500	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	35.23	500	Pass
NVNT	ANT1	802.11ax(HEW40)	2422.00	26.95	500	Pass
NVNT	ANT2	802.11ax(HEW40)	2422.00	27.08	500	Pass
NVNT	ANT1	802.11ax(HEW40)	2437.00	27.10	500	Pass
NVNT	ANT2	802.11ax(HEW40)	2437.00	27.10	500	Pass
NVNT	ANT1	802.11ax(HEW40)	2452.00	29.00	500	Pass
NVNT	ANT2	802.11ax(HEW40)	2452.00	28.80	500	Pass

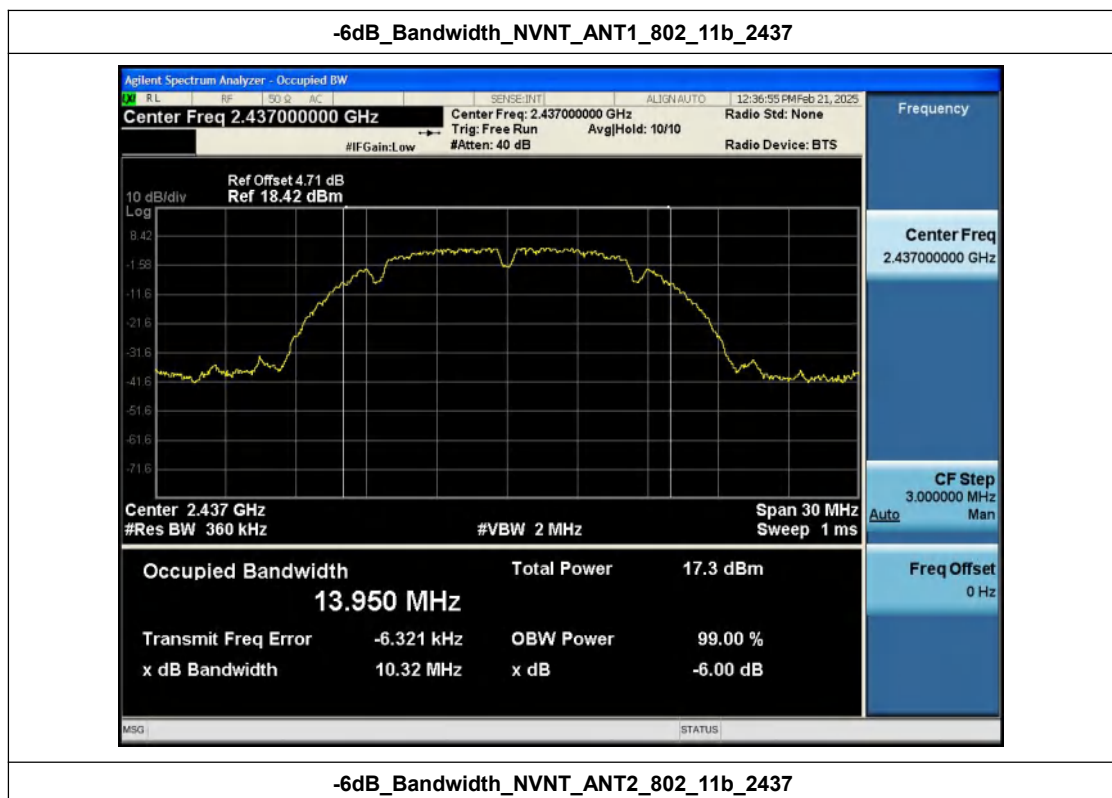
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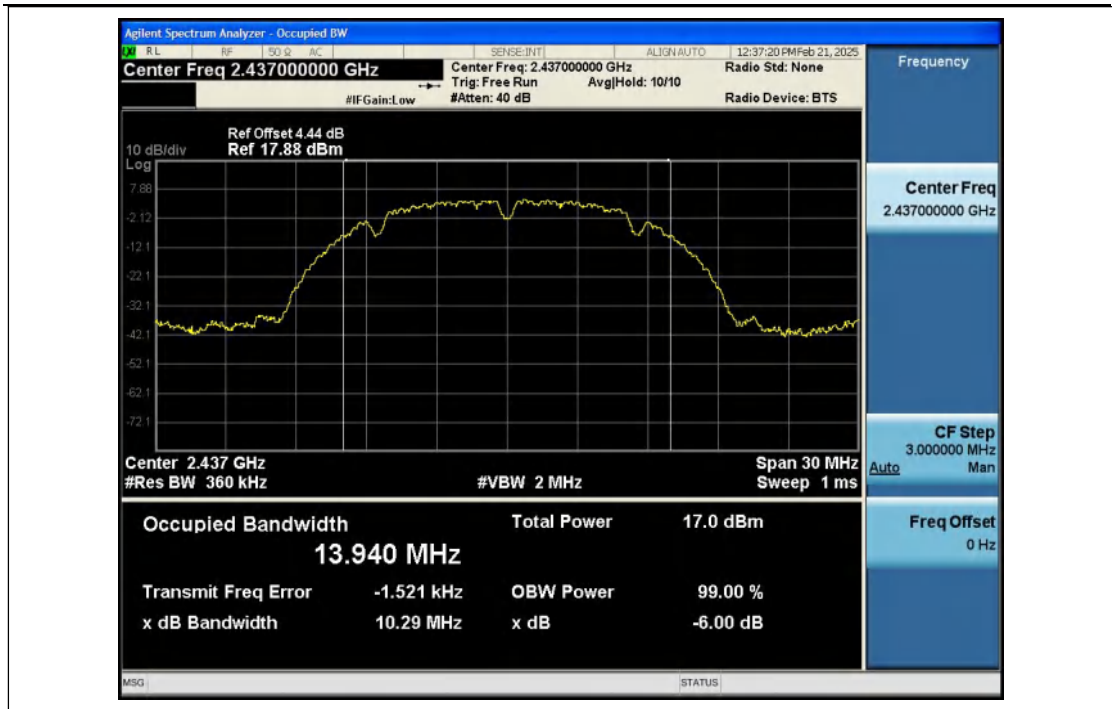
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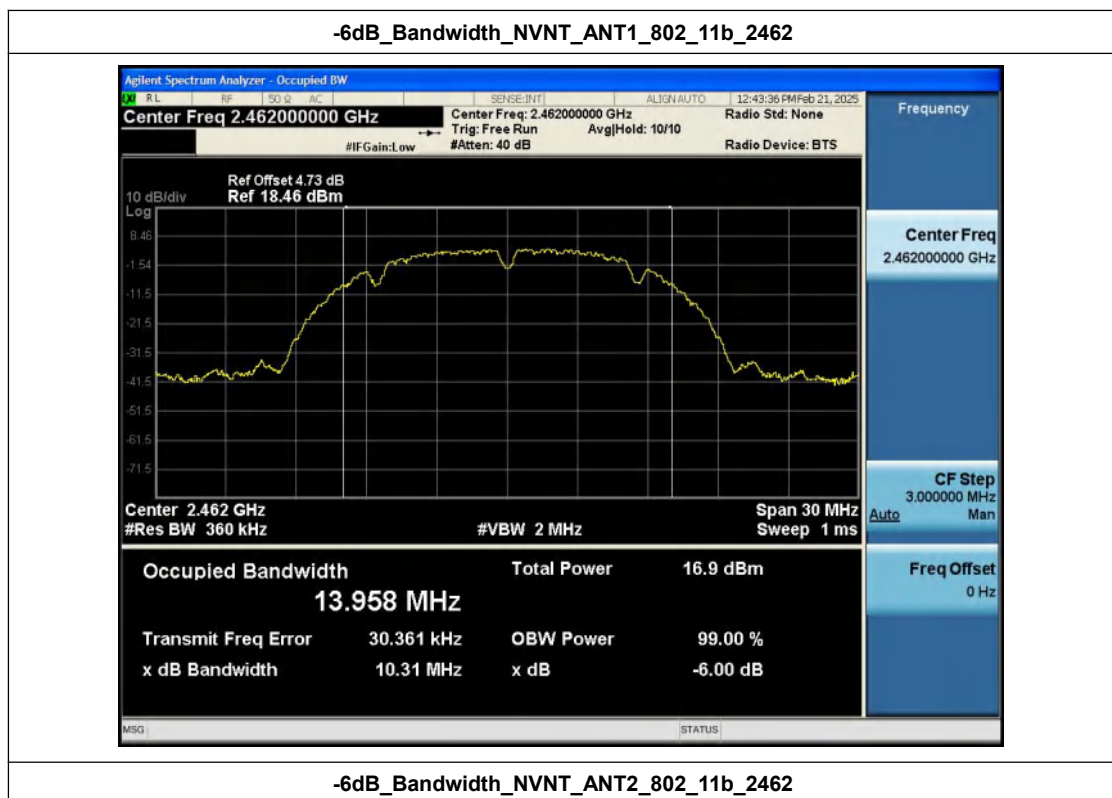
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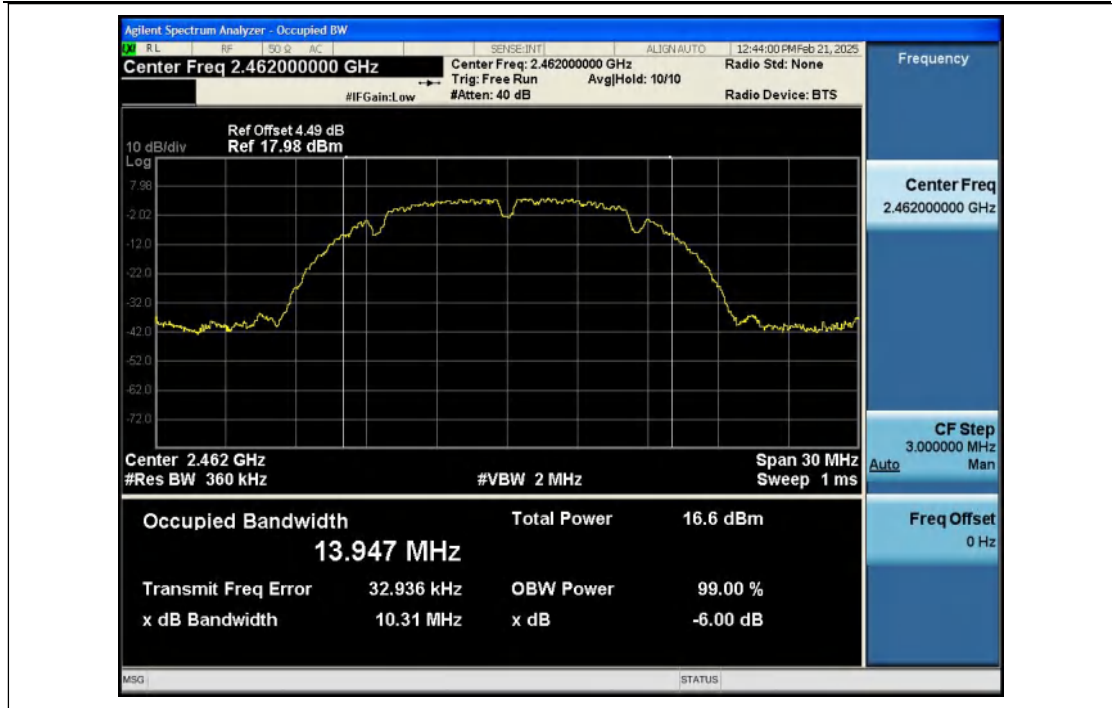
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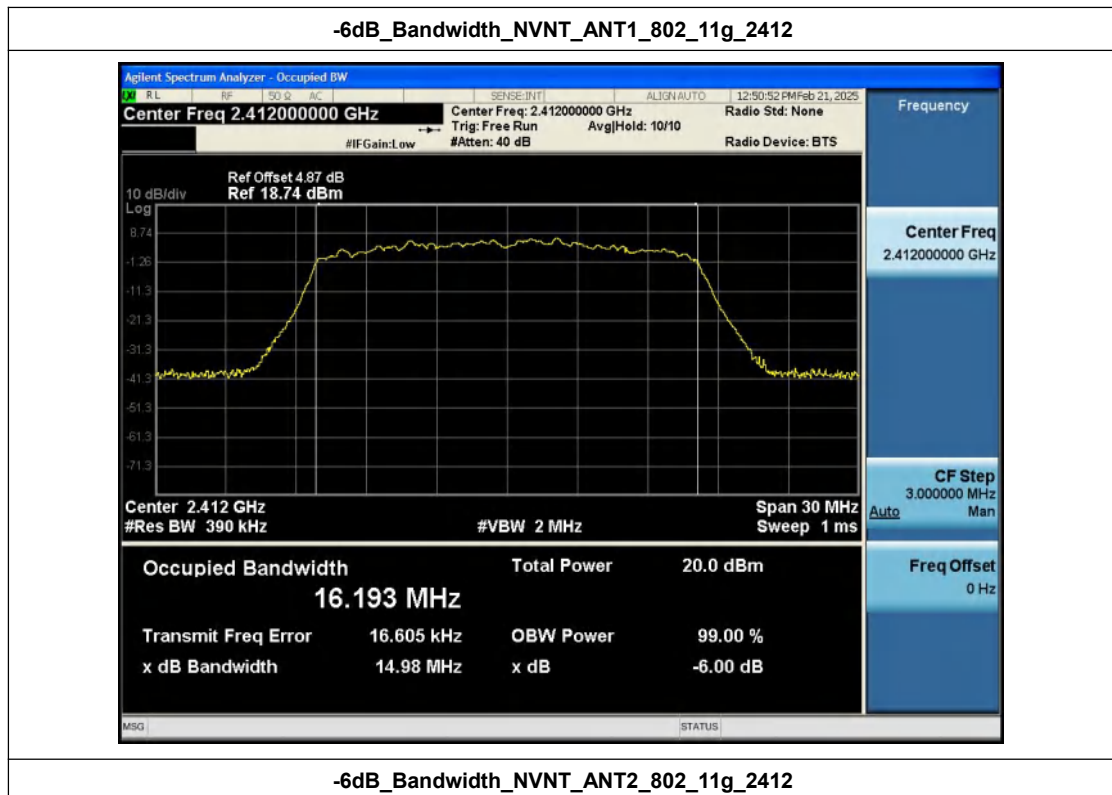
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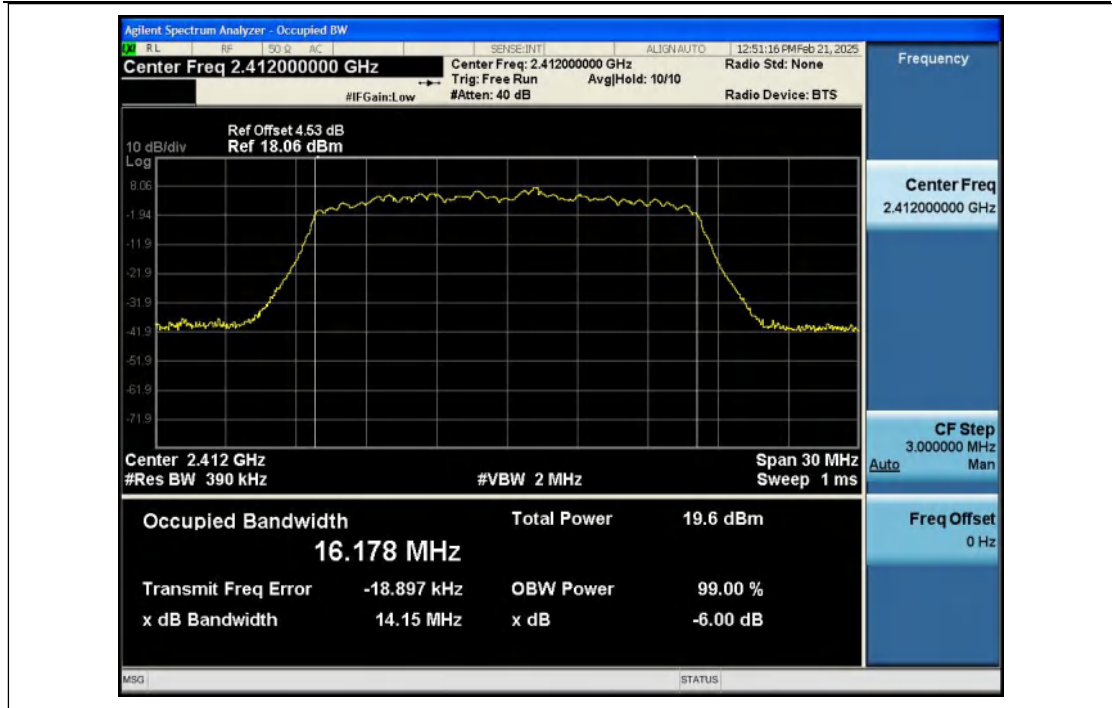
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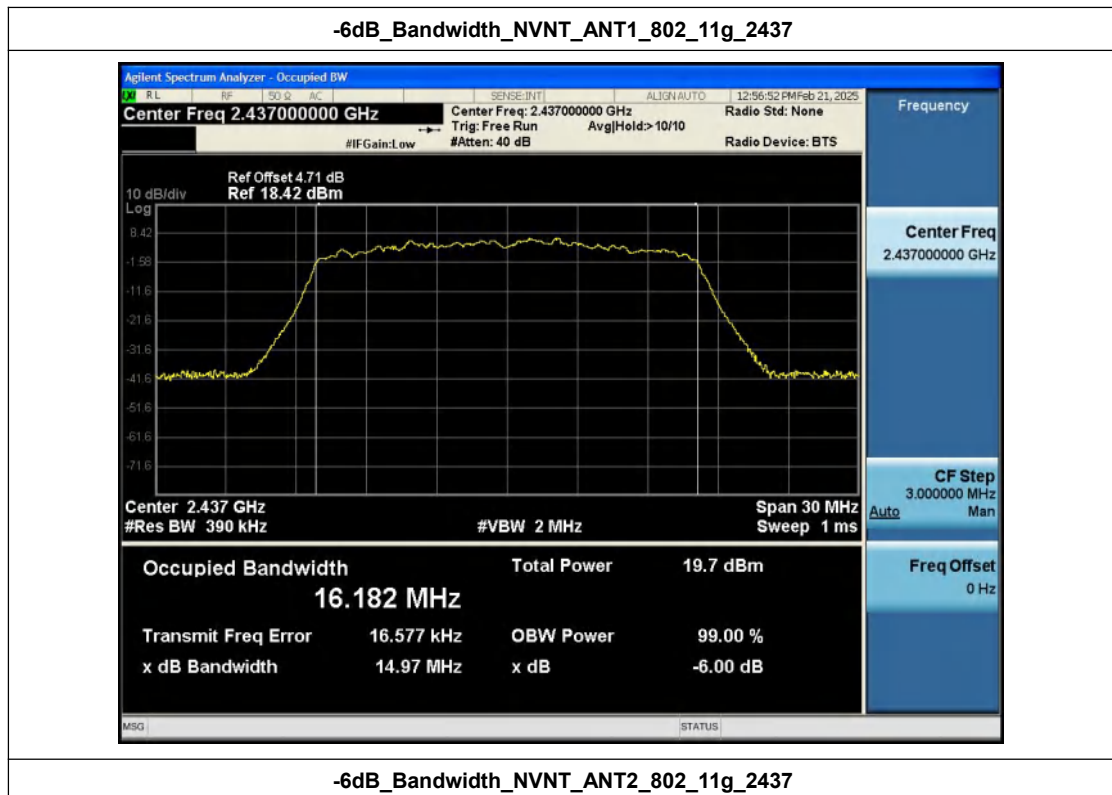
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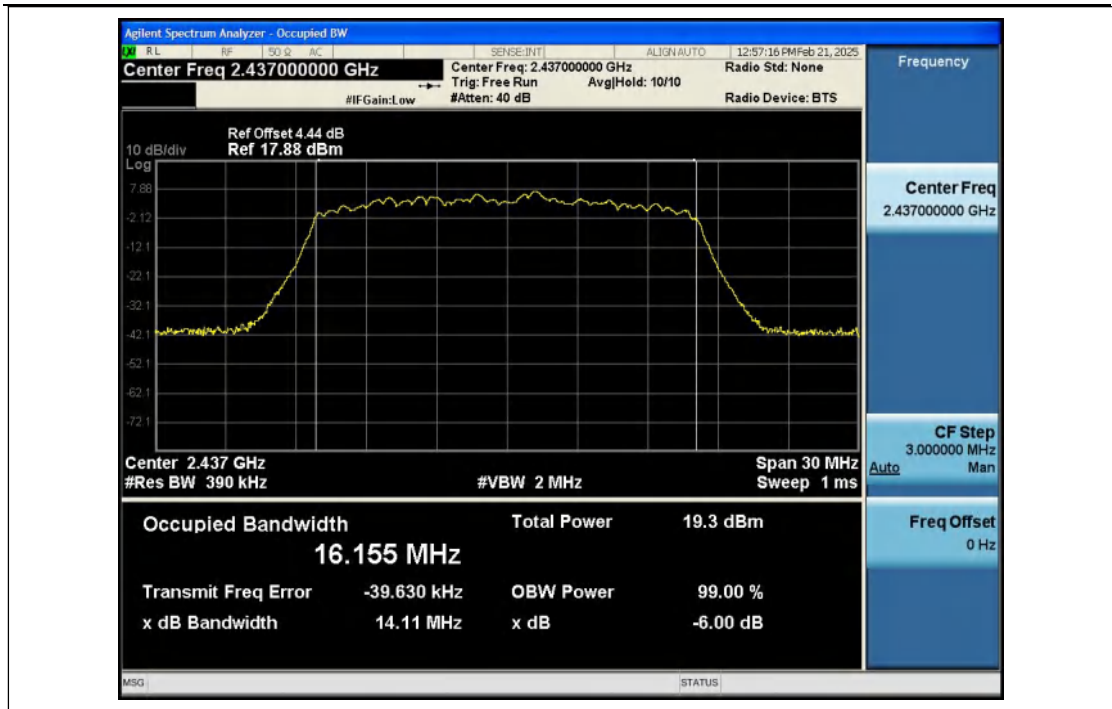
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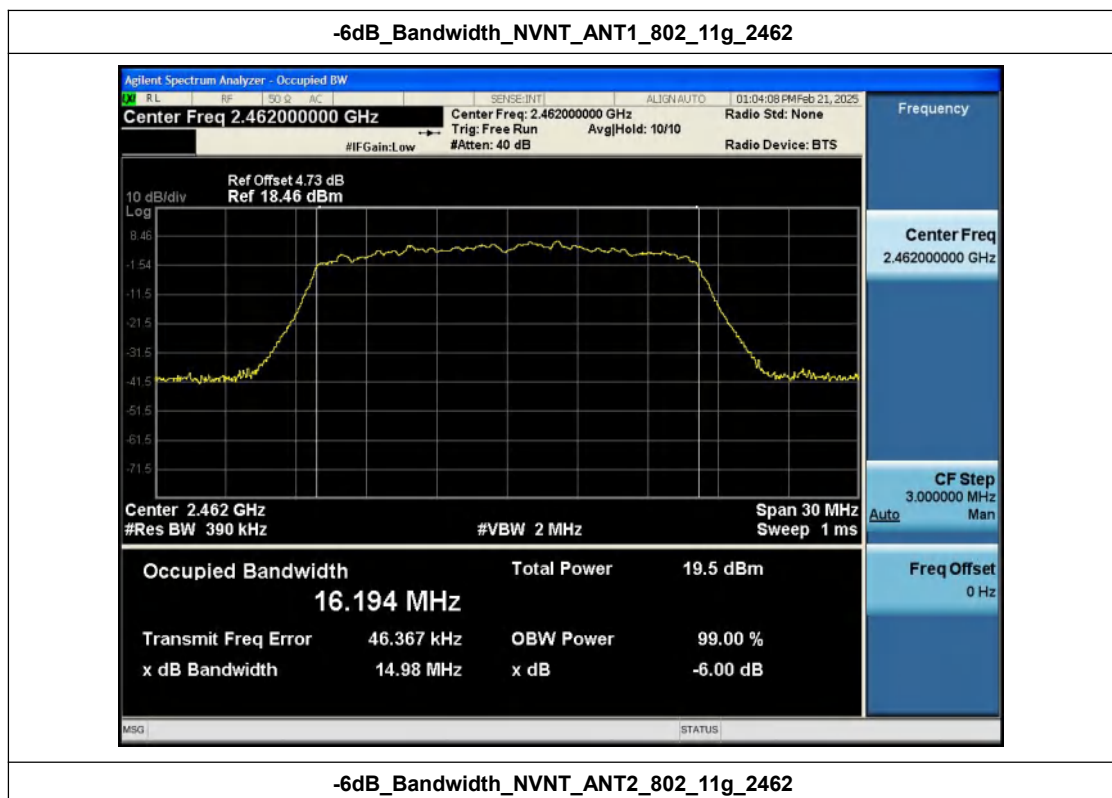
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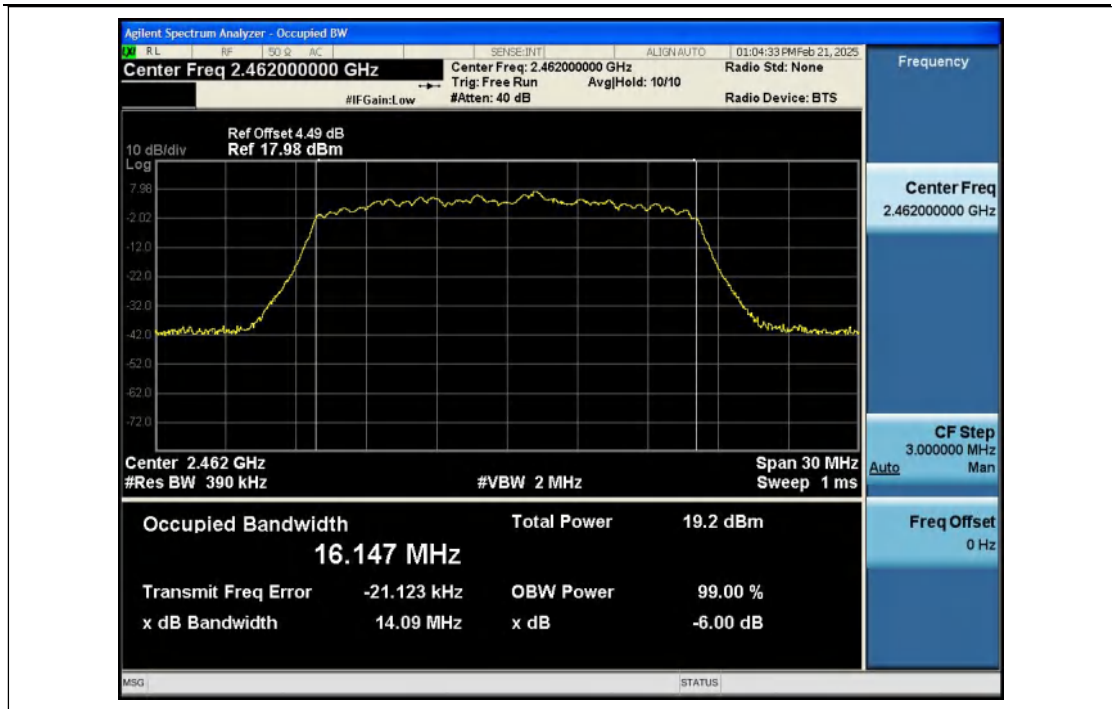
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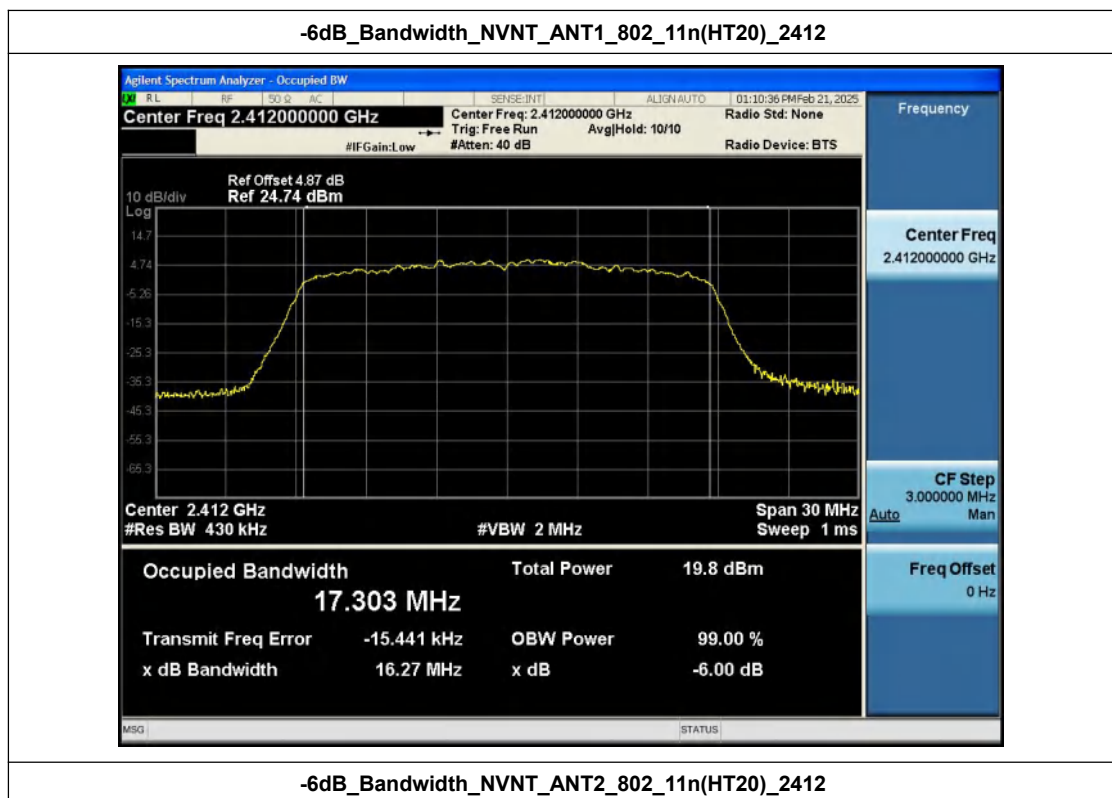
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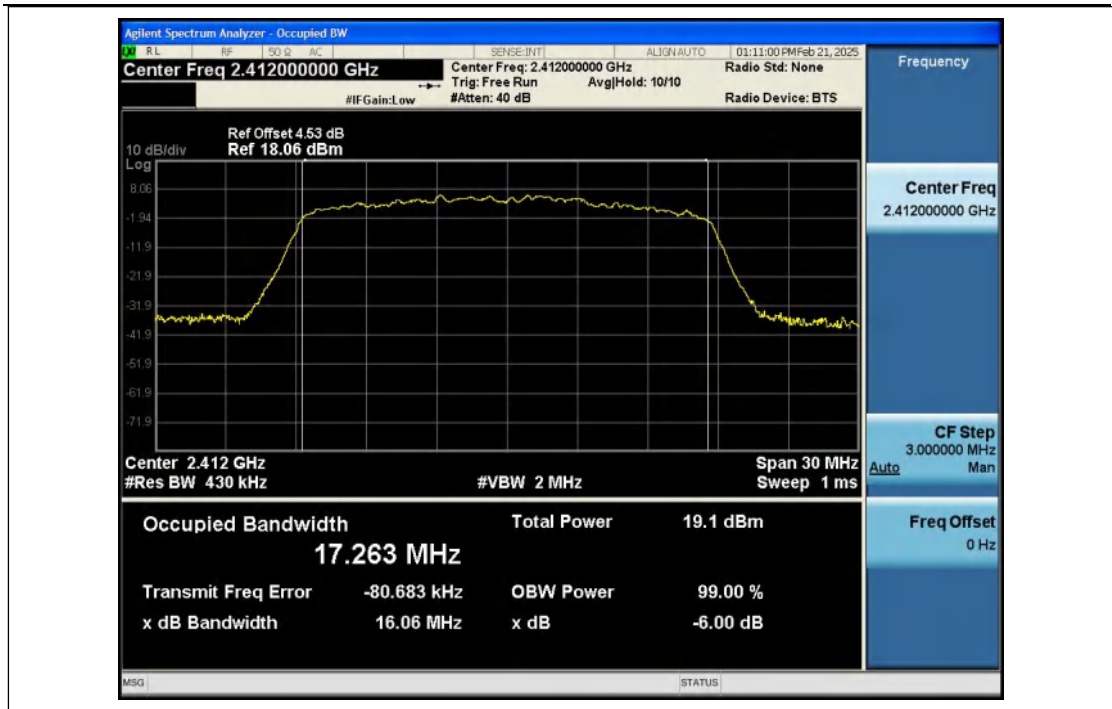
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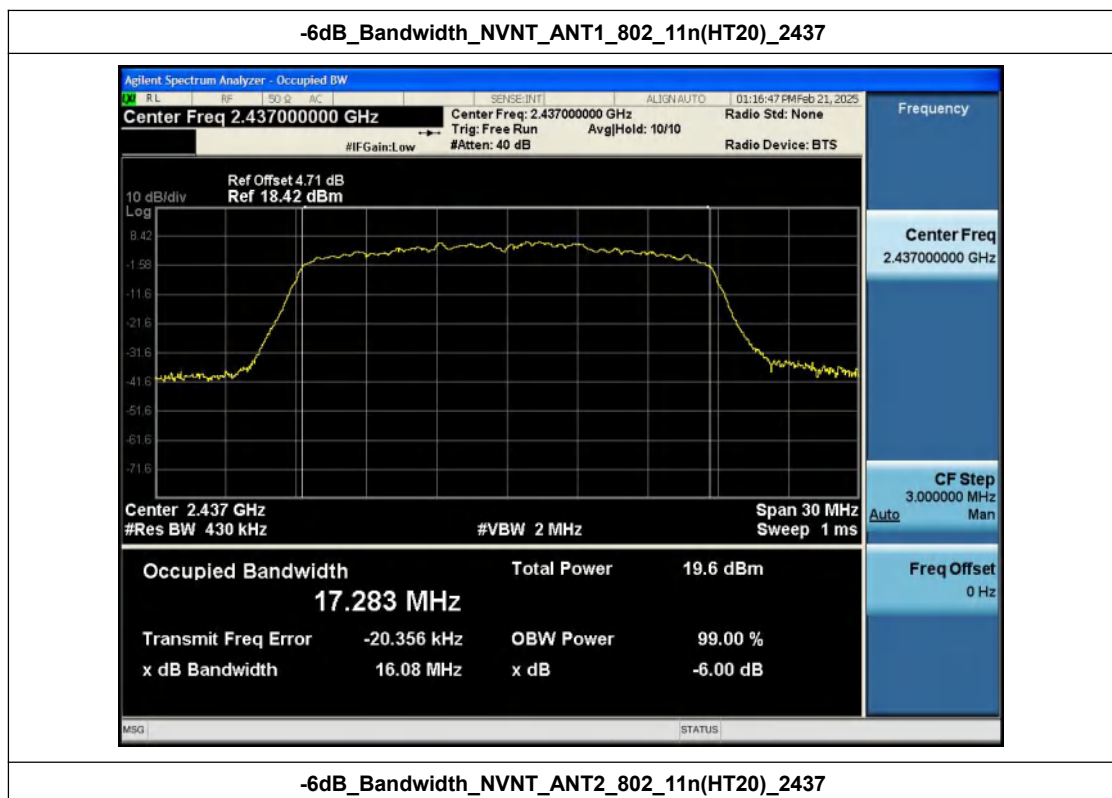
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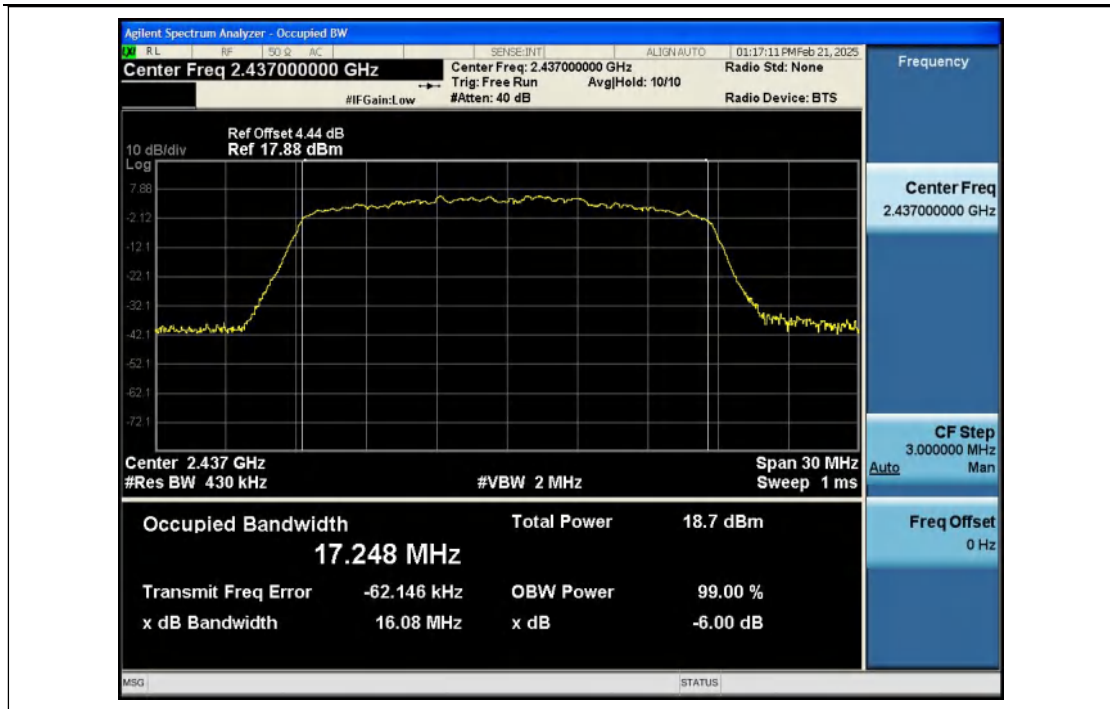
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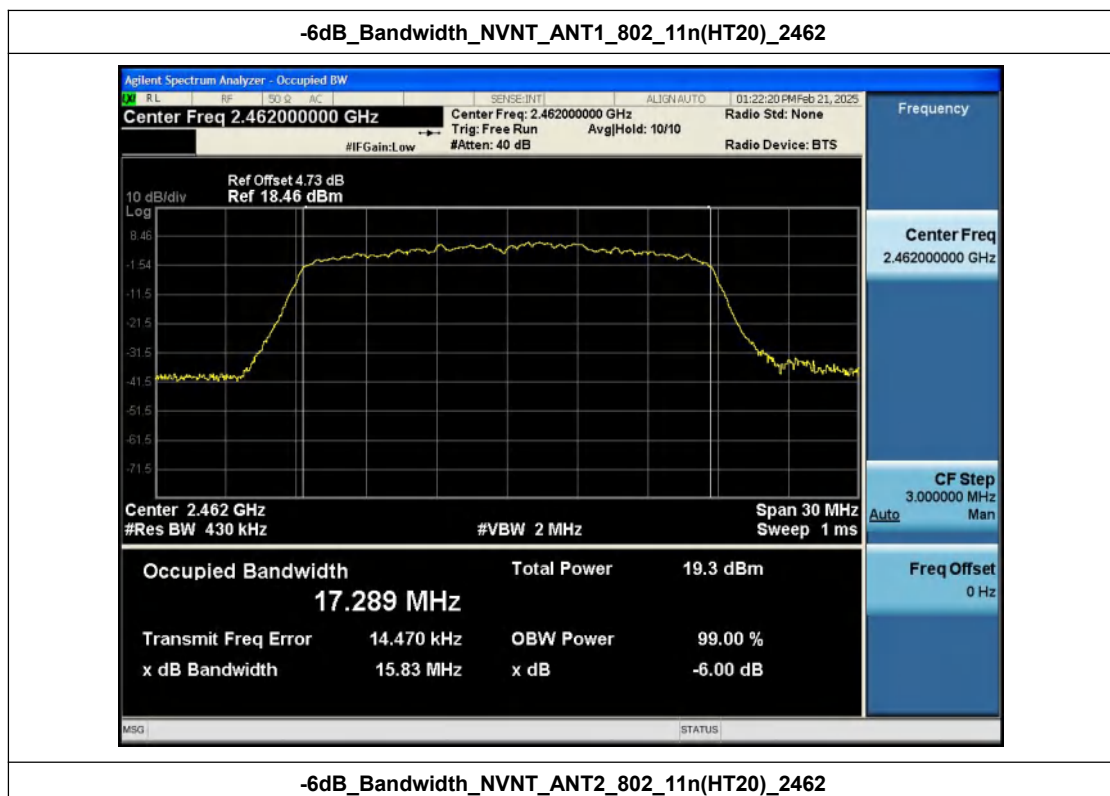
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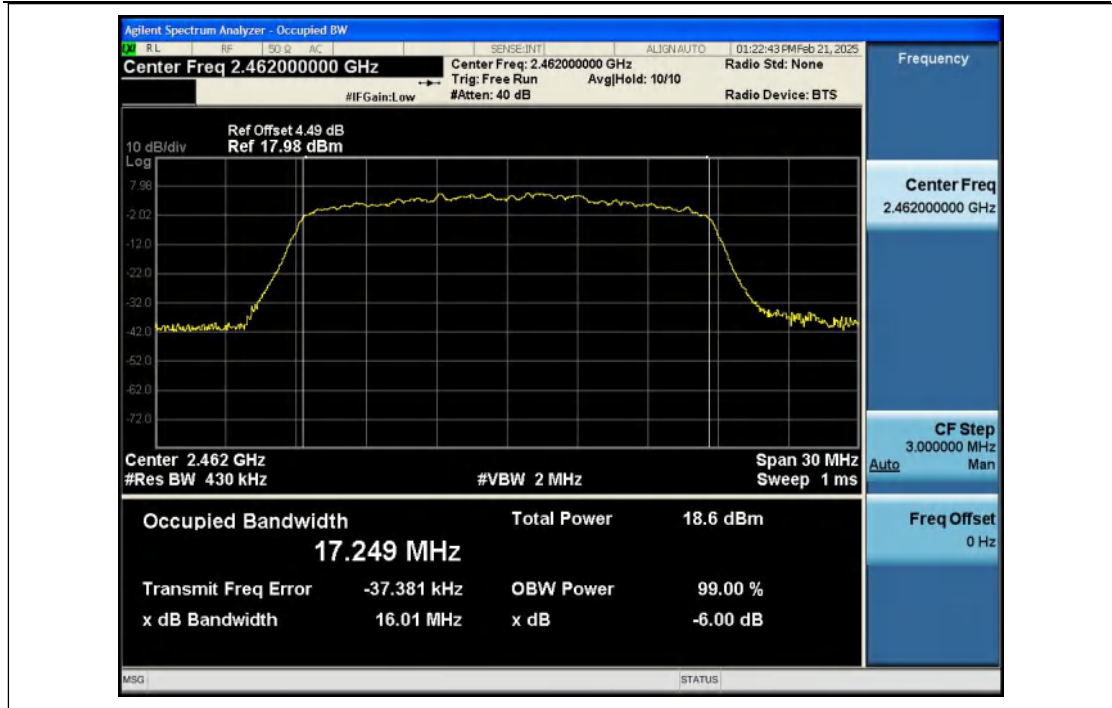
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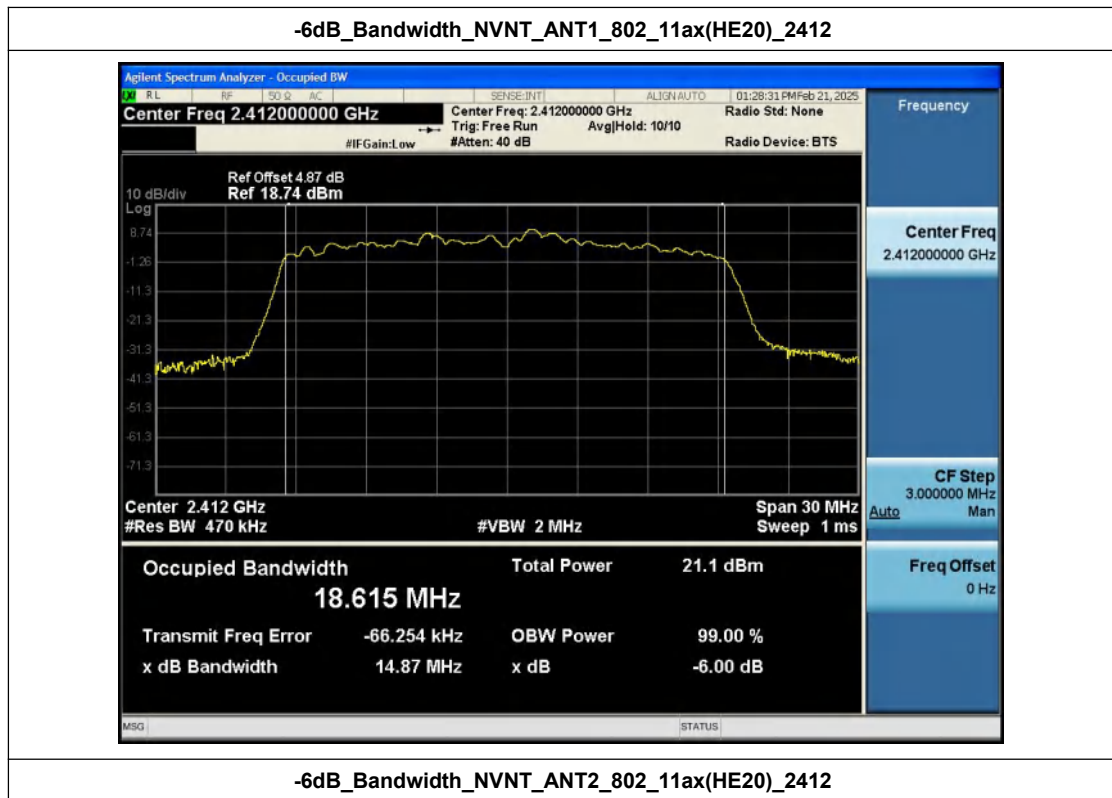
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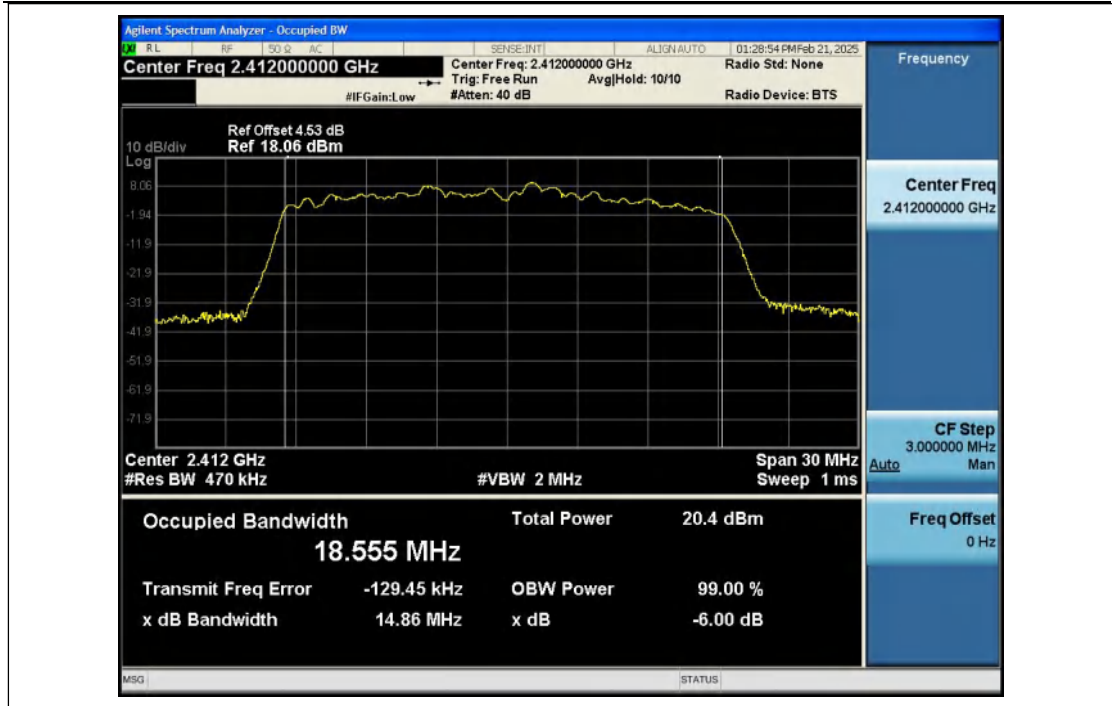
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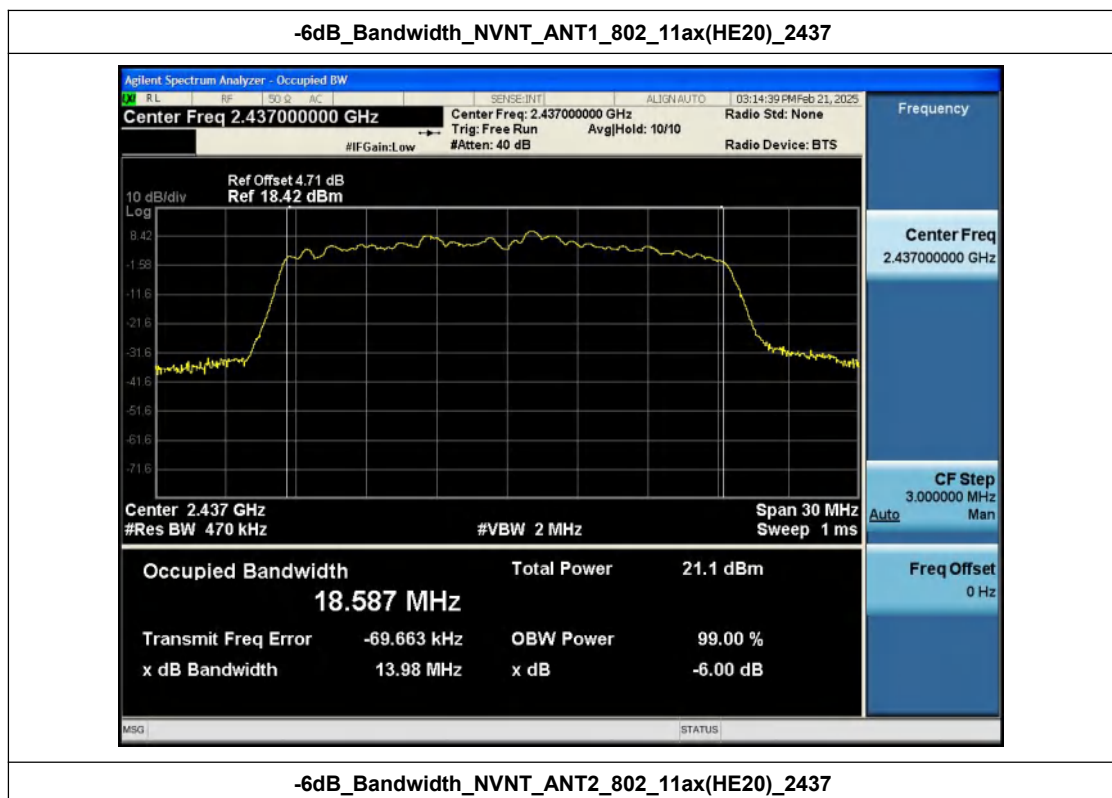
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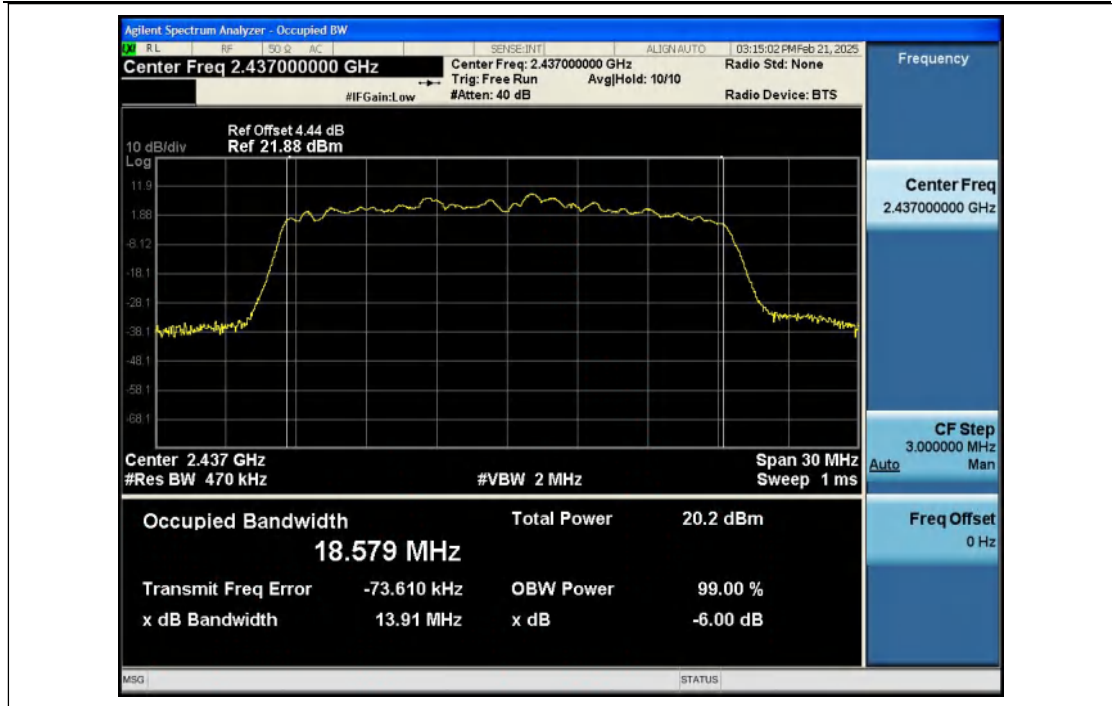
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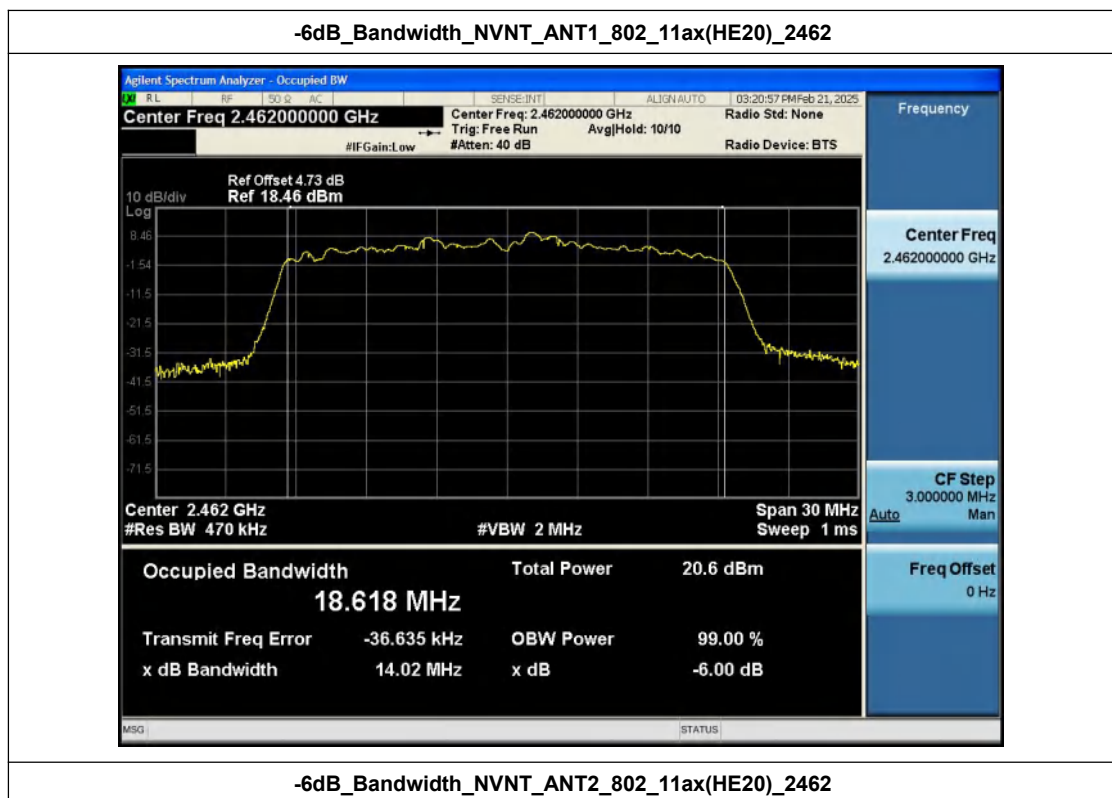
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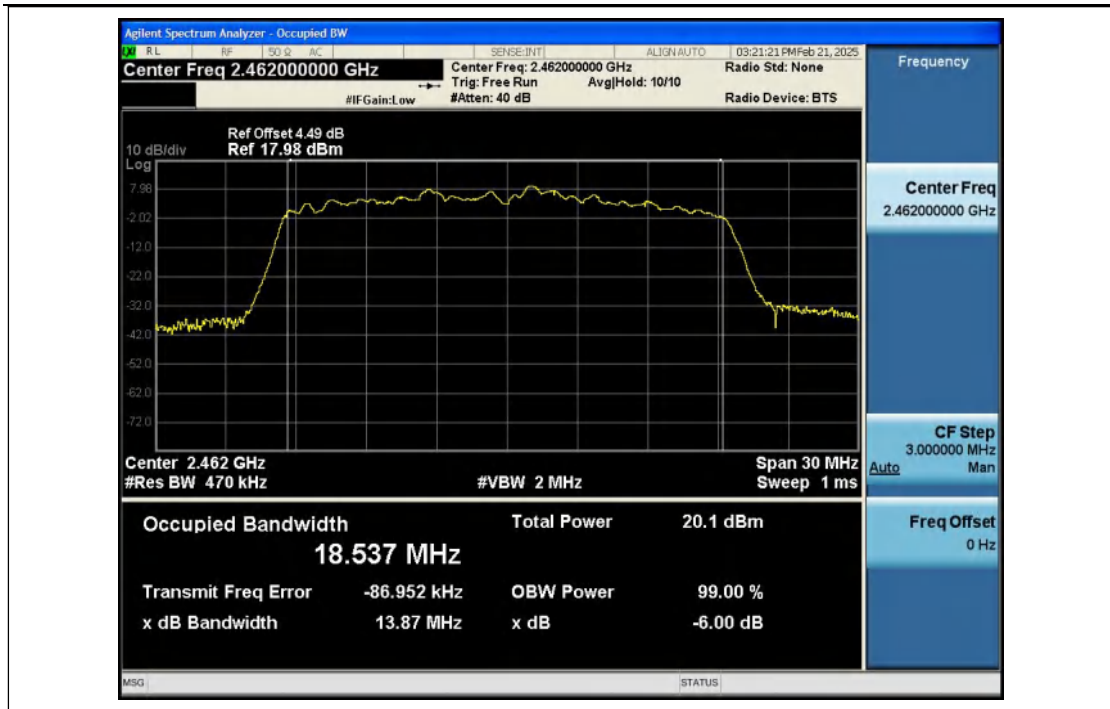
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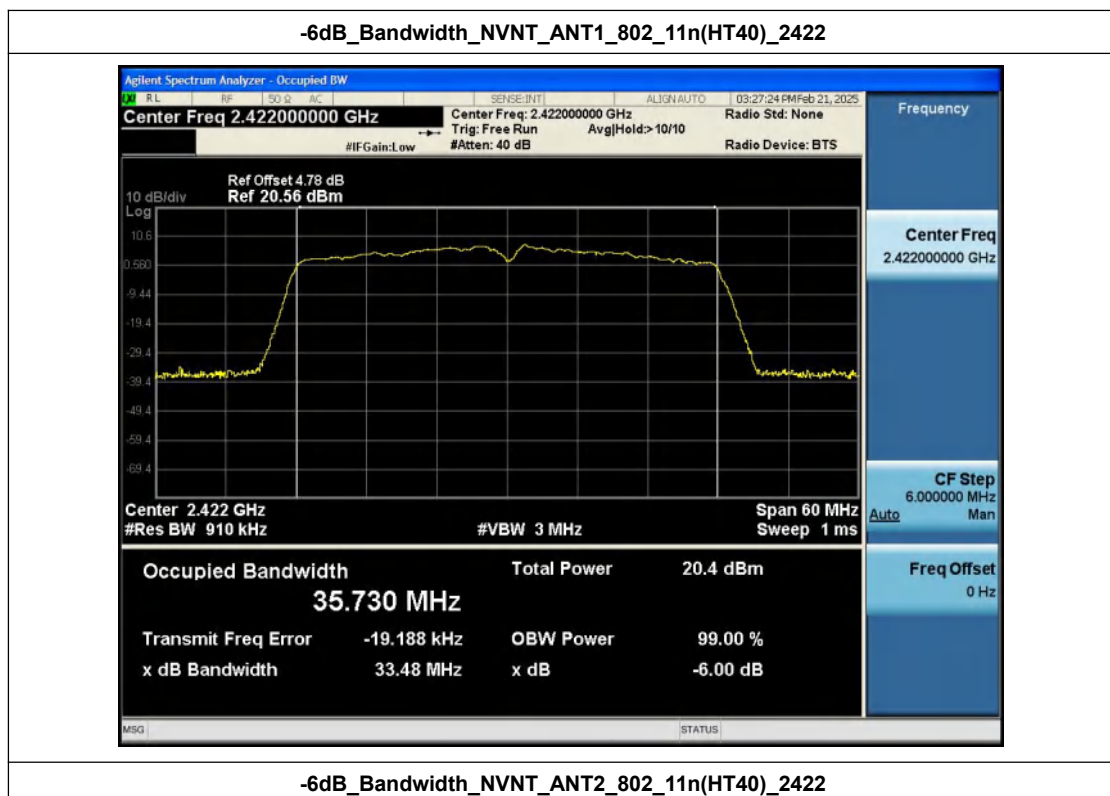
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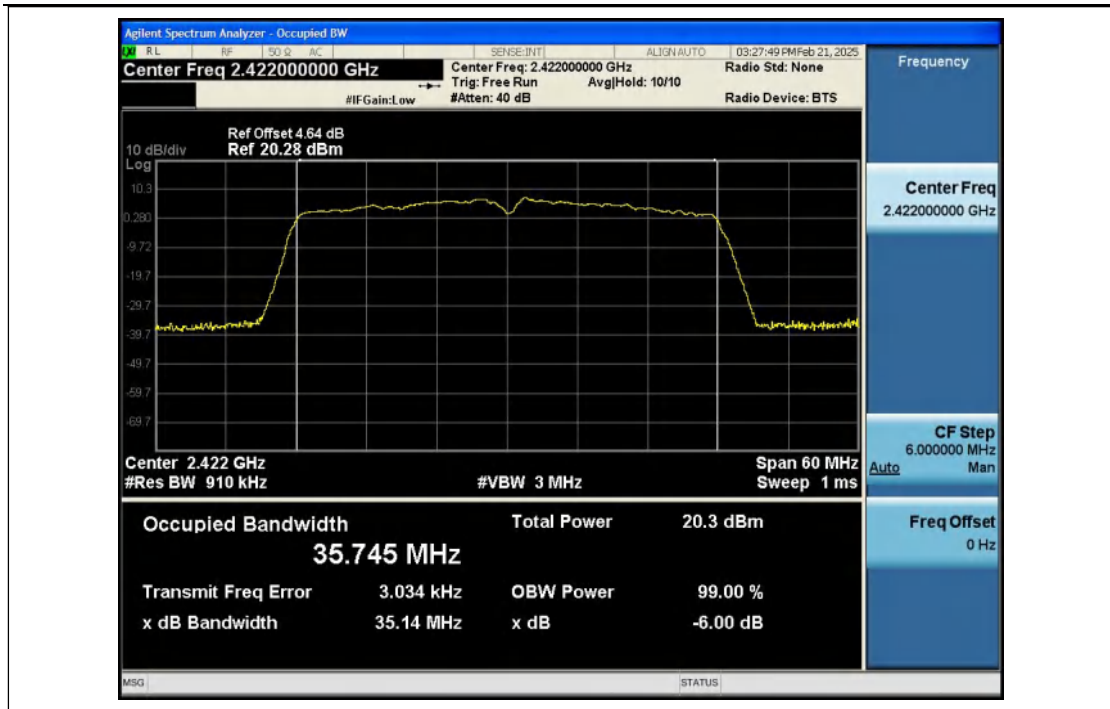
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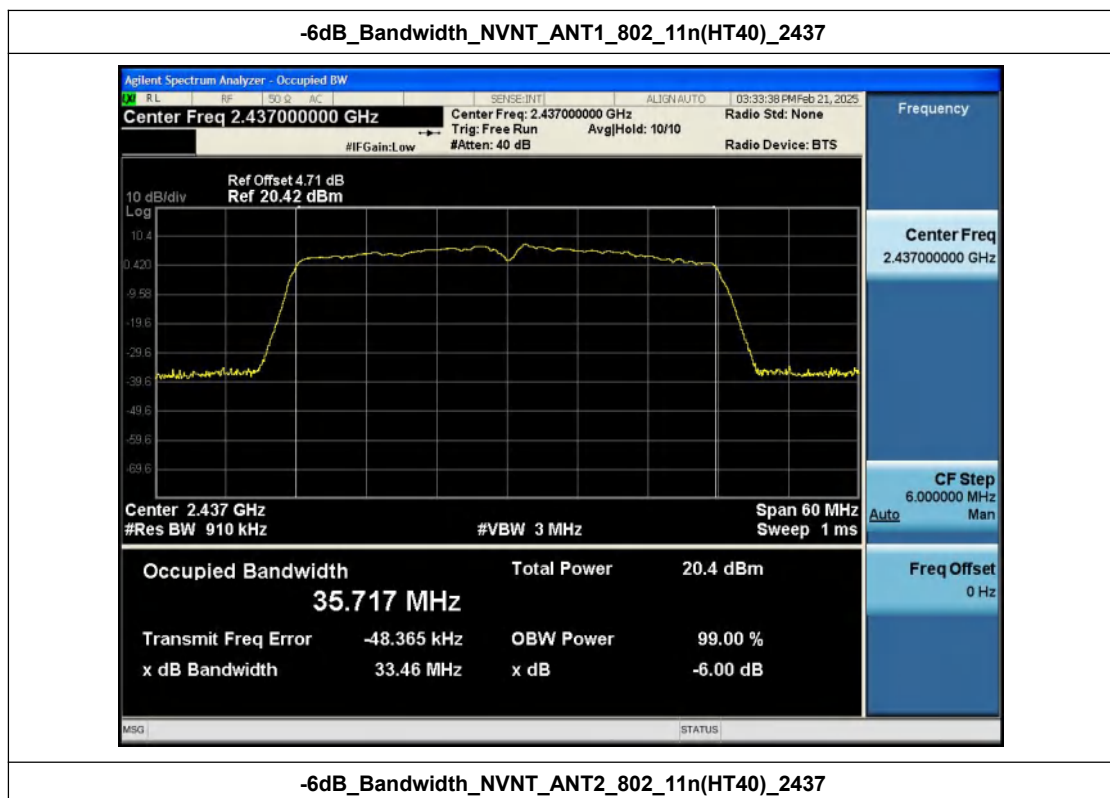
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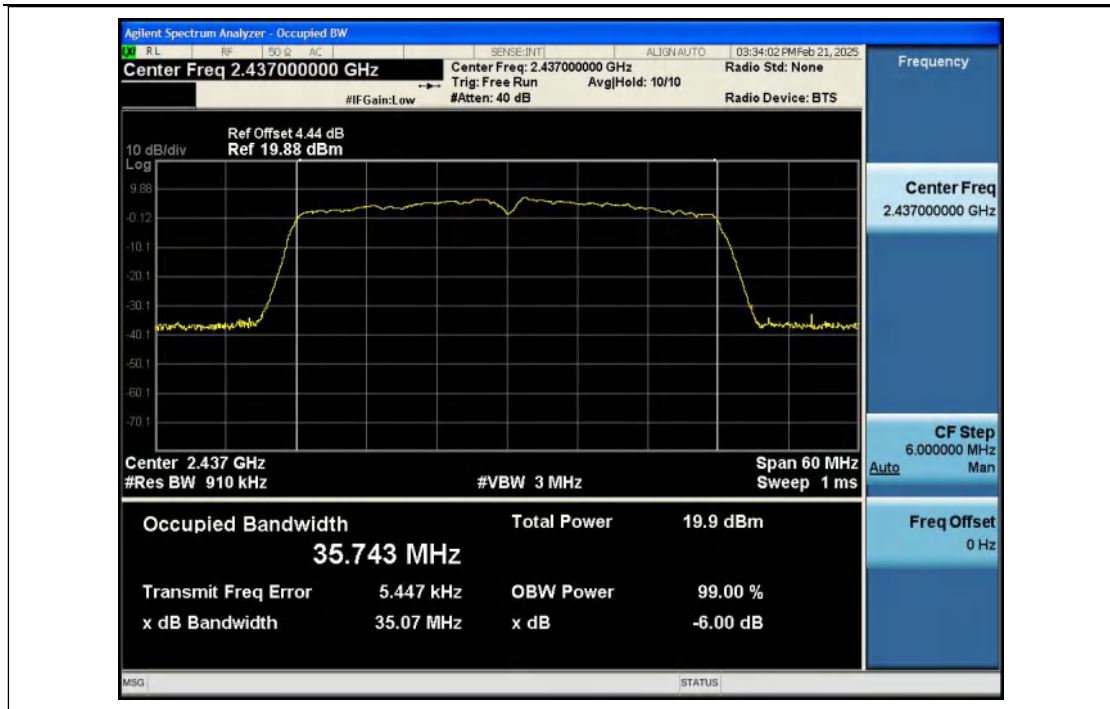
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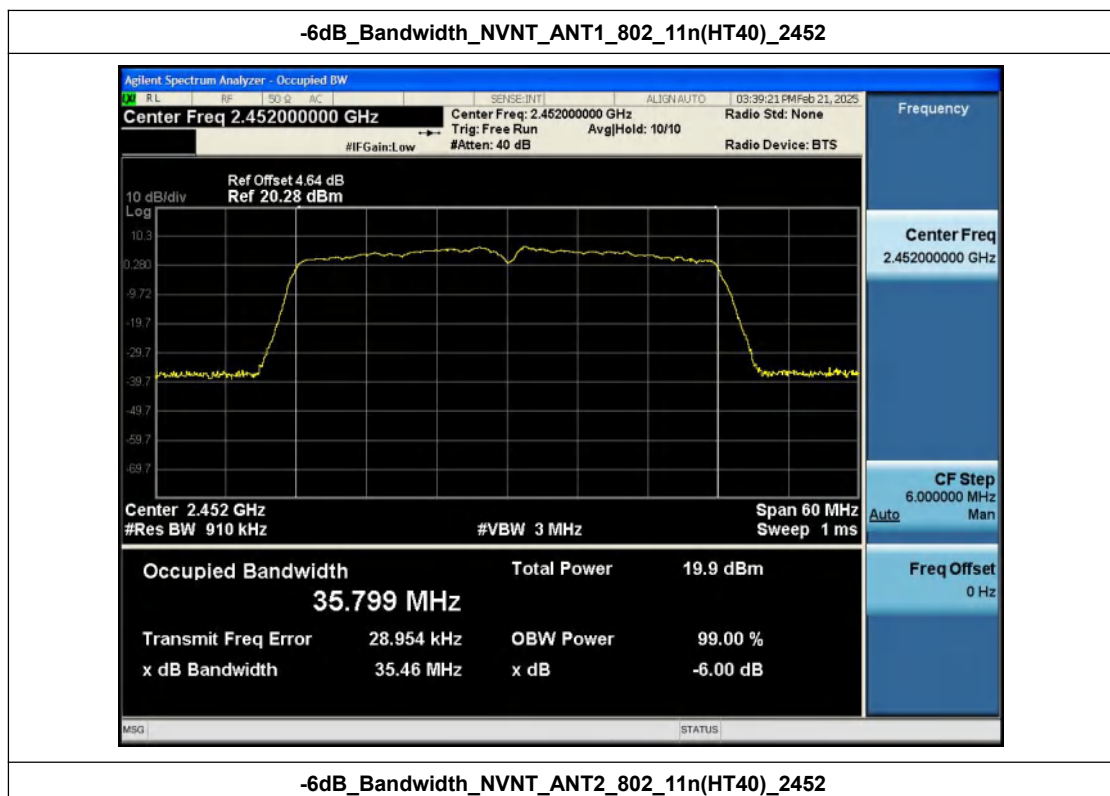
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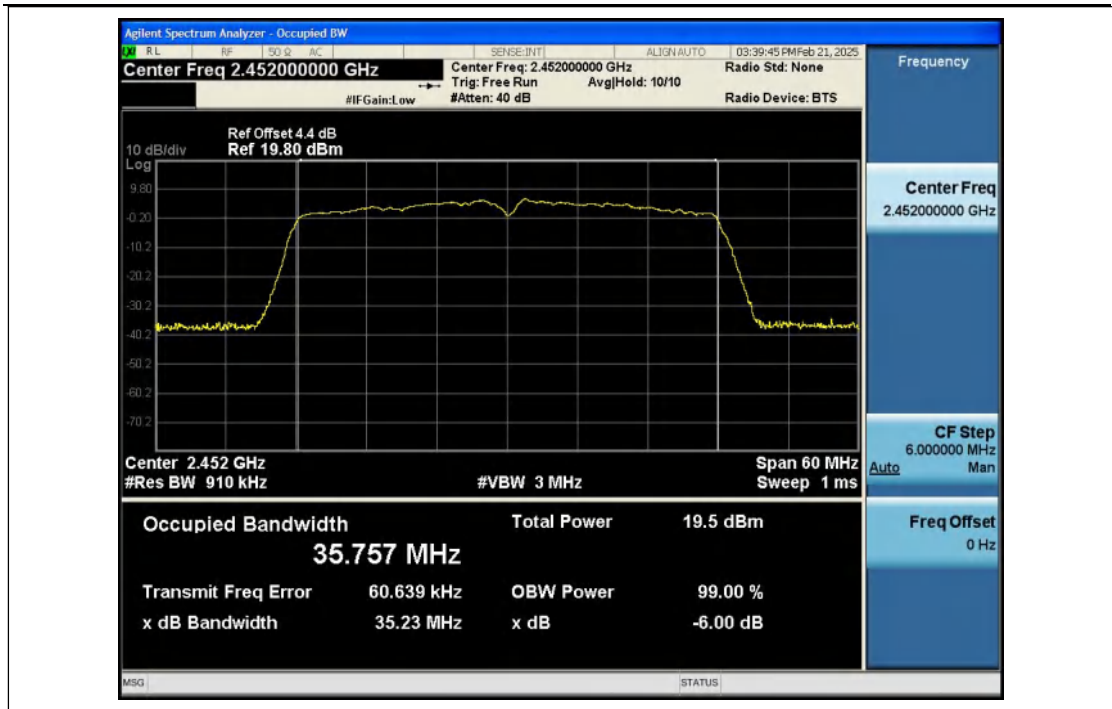
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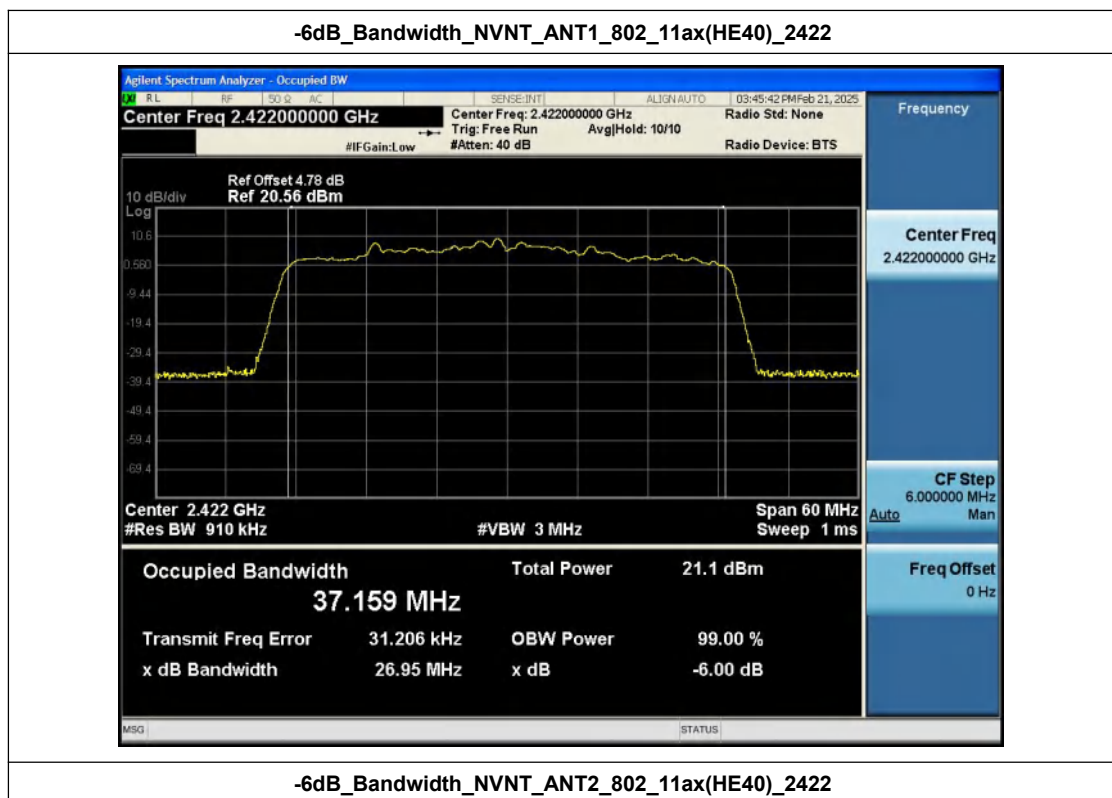
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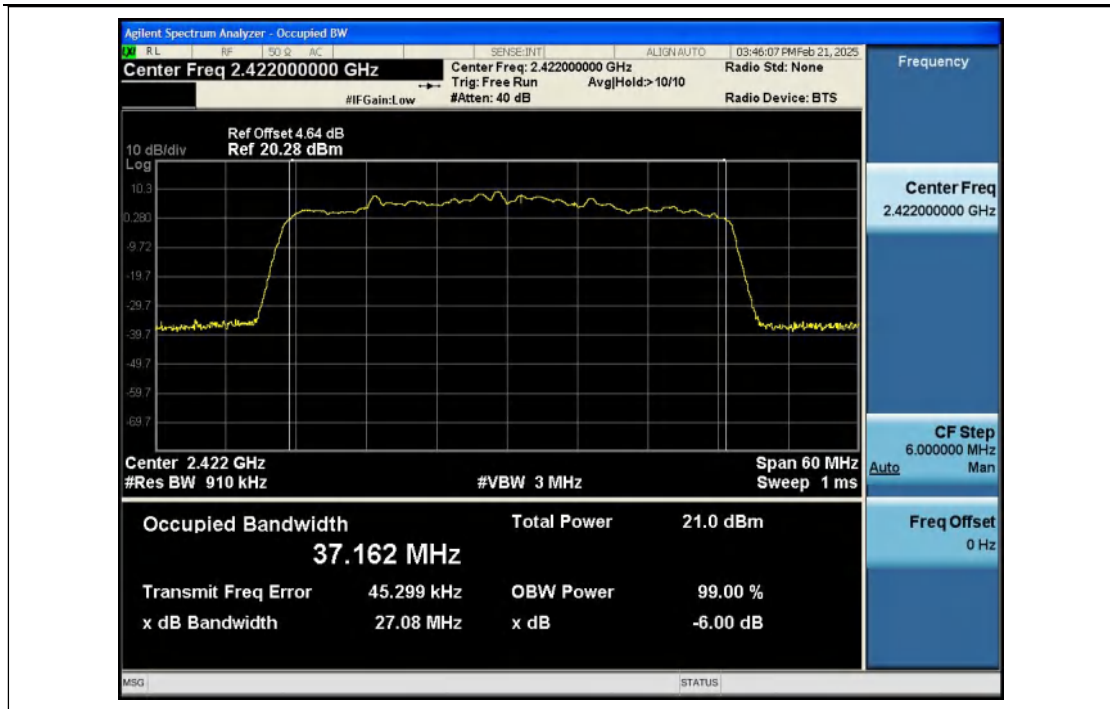
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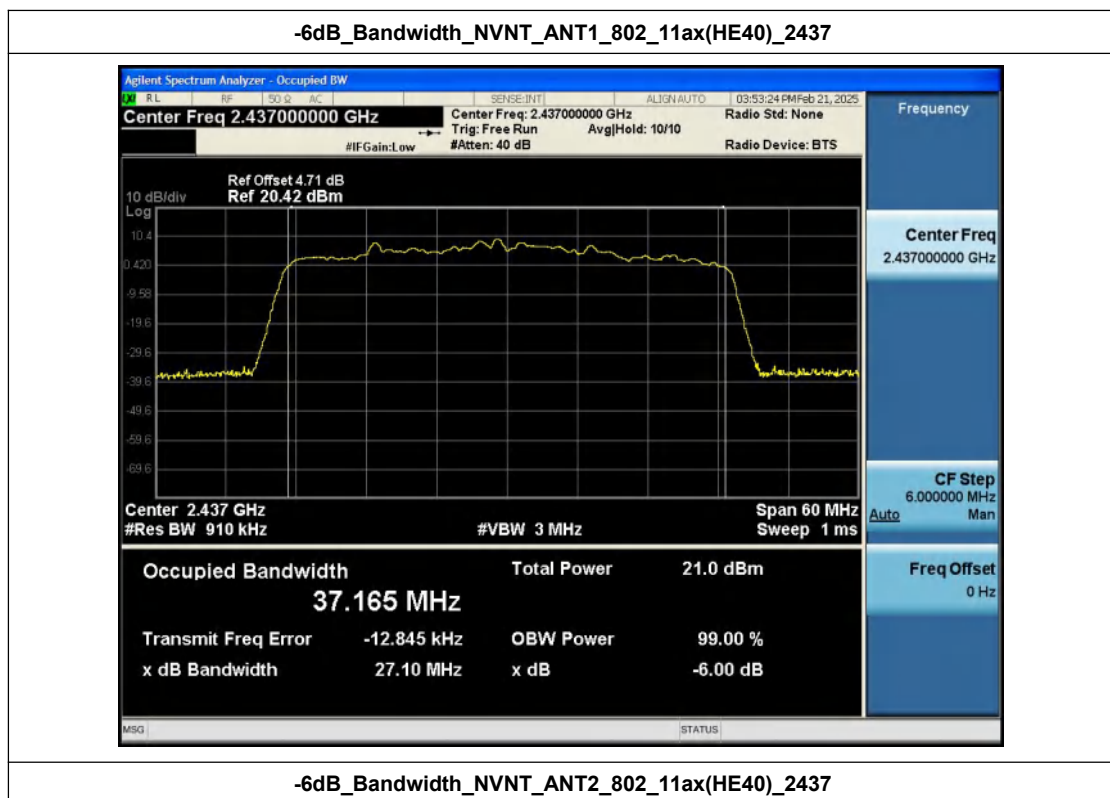
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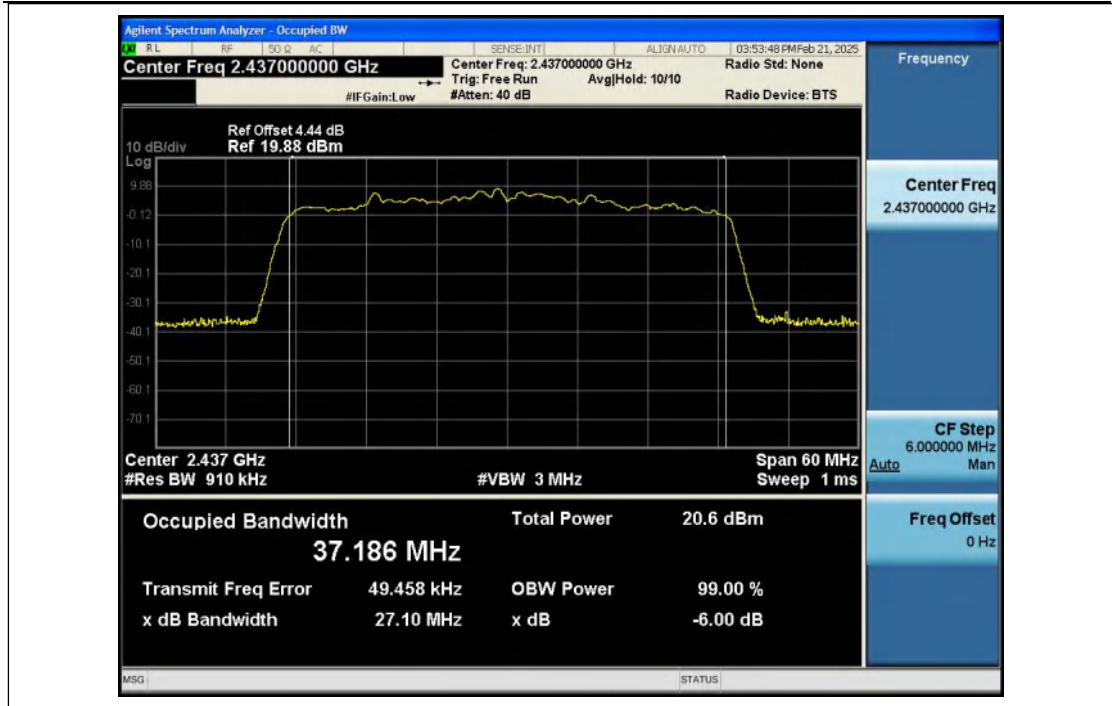
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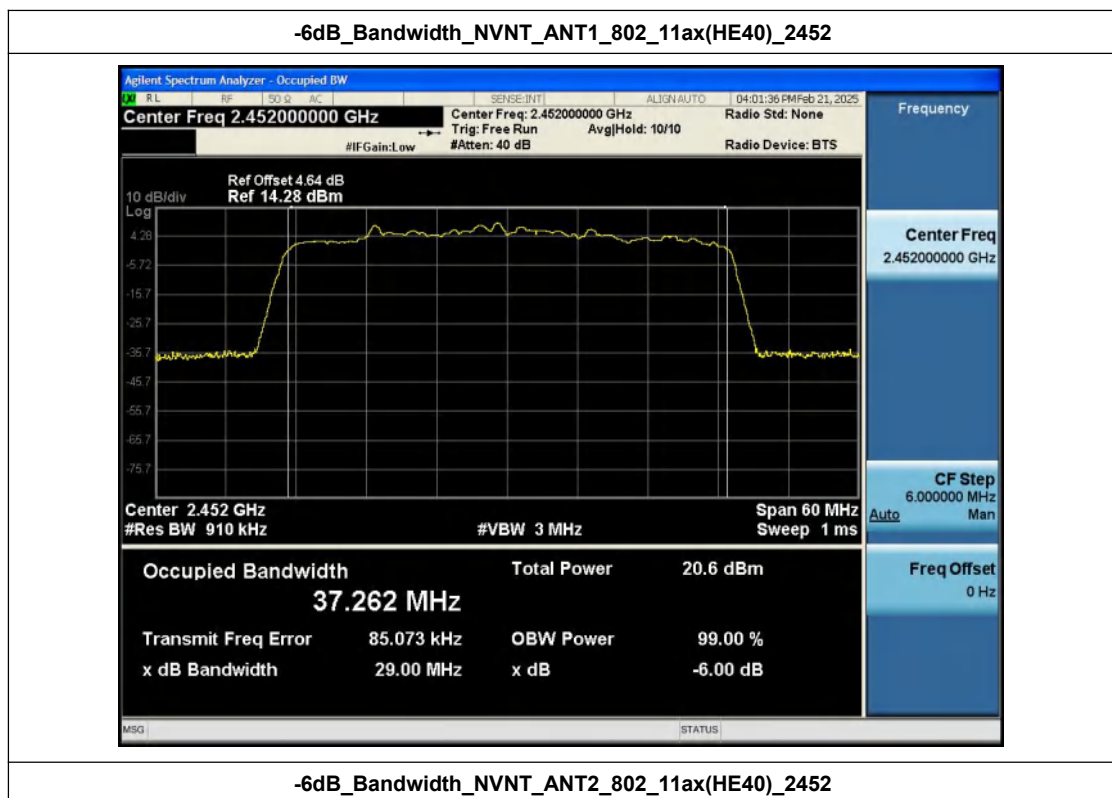
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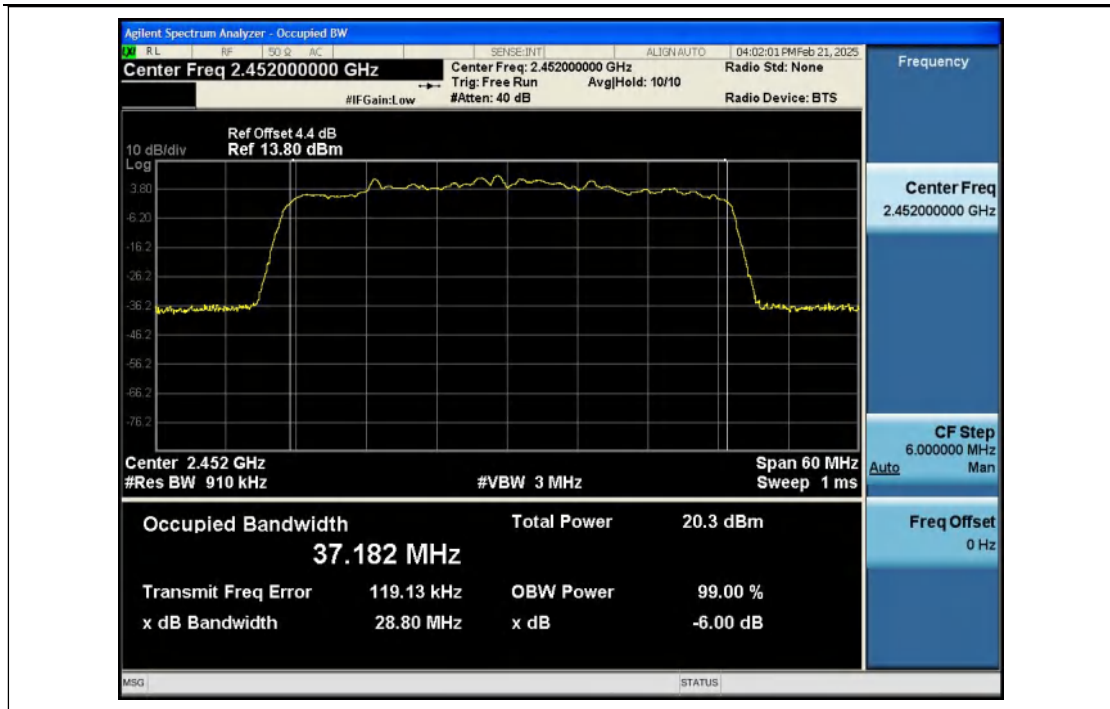
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-6dB_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



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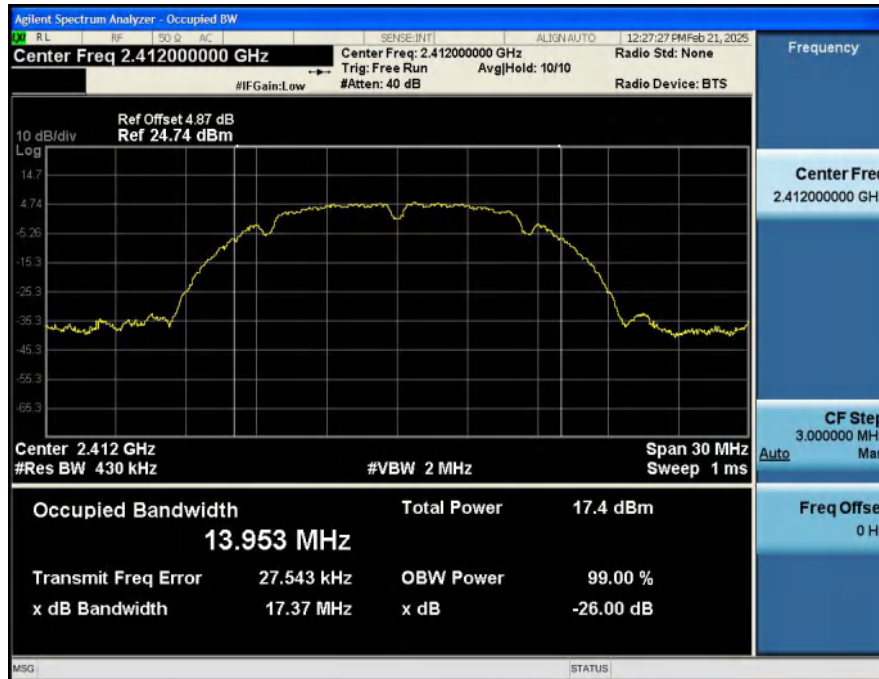
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotek.com

Hotline
400-003-0500
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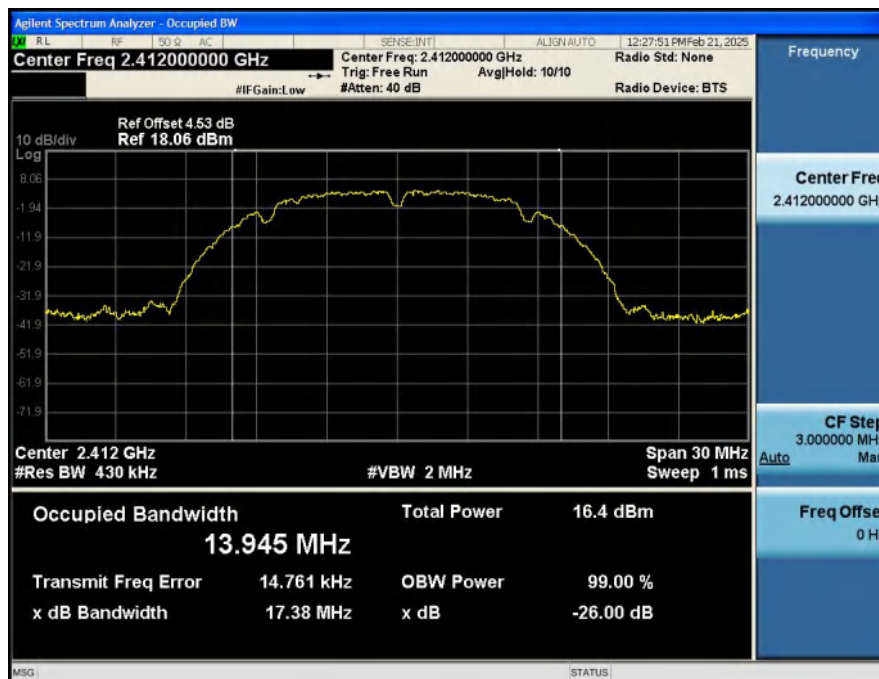
Appendix B: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	802.11b	2412.00	13.953
NVNT	ANT2	802.11b	2412.00	13.945
NVNT	ANT1	802.11b	2437.00	13.938
NVNT	ANT2	802.11b	2437.00	13.939
NVNT	ANT1	802.11b	2462.00	13.945
NVNT	ANT2	802.11b	2462.00	13.951
NVNT	ANT1	802.11g	2412.00	16.210
NVNT	ANT2	802.11g	2412.00	16.187
NVNT	ANT1	802.11g	2437.00	16.201
NVNT	ANT2	802.11g	2437.00	16.162
NVNT	ANT1	802.11g	2462.00	16.217
NVNT	ANT2	802.11g	2462.00	16.161
NVNT	ANT1	802.11n(HT20)	2412.00	17.311
NVNT	ANT2	802.11n(HT20)	2412.00	17.275
NVNT	ANT1	802.11n(HT20)	2437.00	17.295
NVNT	ANT2	802.11n(HT20)	2437.00	17.271
NVNT	ANT1	802.11n(HT20)	2462.00	17.298
NVNT	ANT2	802.11n(HT20)	2462.00	17.262
NVNT	ANT1	802.11ax(HEW20)	2412.00	18.615
NVNT	ANT2	802.11ax(HEW20)	2412.00	18.556
NVNT	ANT1	802.11ax(HEW20)	2437.00	18.586
NVNT	ANT2	802.11ax(HEW20)	2437.00	18.580
NVNT	ANT1	802.11ax(HEW20)	2462.00	18.613
NVNT	ANT2	802.11ax(HEW20)	2462.00	18.548
NVNT	ANT1	802.11n(HT40)	2422.00	35.728
NVNT	ANT2	802.11n(HT40)	2422.00	35.746
NVNT	ANT1	802.11n(HT40)	2437.00	35.710
NVNT	ANT2	802.11n(HT40)	2437.00	35.750
NVNT	ANT1	802.11n(HT40)	2452.00	35.802
NVNT	ANT2	802.11n(HT40)	2452.00	35.756
NVNT	ANT1	802.11ax(HEW40)	2422.00	37.158
NVNT	ANT2	802.11ax(HEW40)	2422.00	37.147
NVNT	ANT1	802.11ax(HEW40)	2437.00	37.158
NVNT	ANT2	802.11ax(HEW40)	2437.00	37.191
NVNT	ANT1	802.11ax(HEW40)	2452.00	37.262
NVNT	ANT2	802.11ax(HEW40)	2452.00	37.170

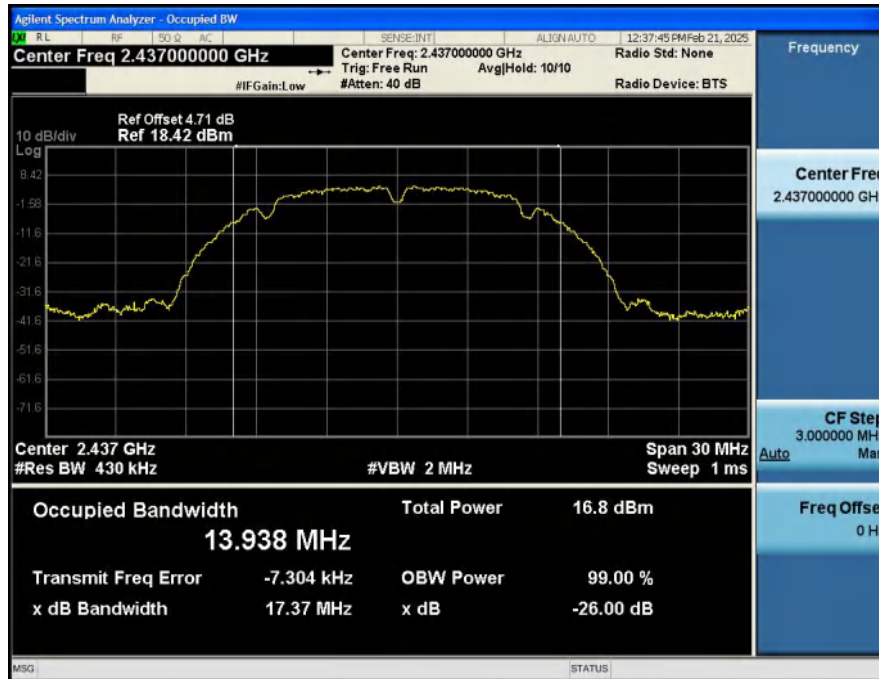
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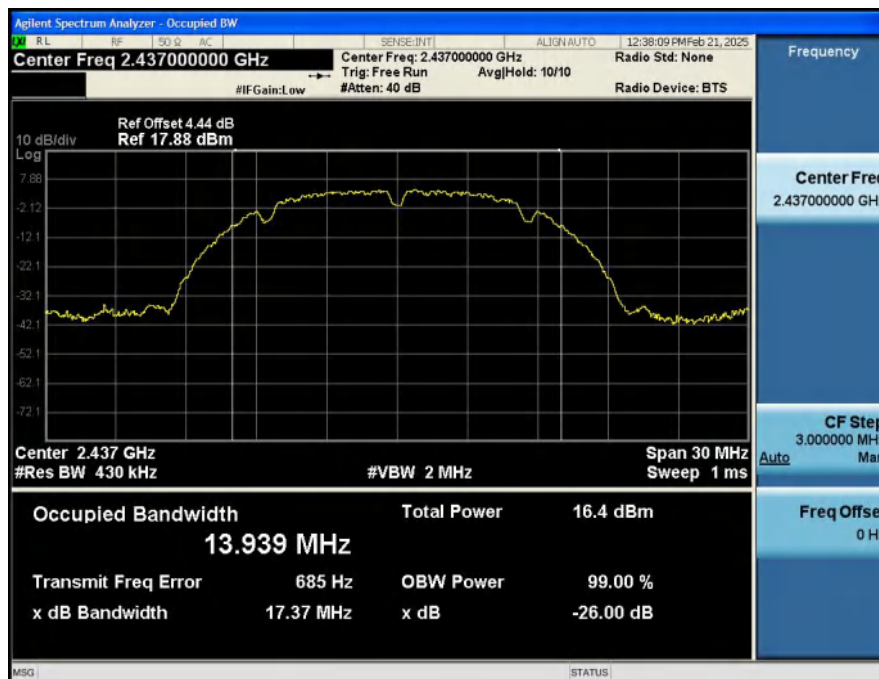
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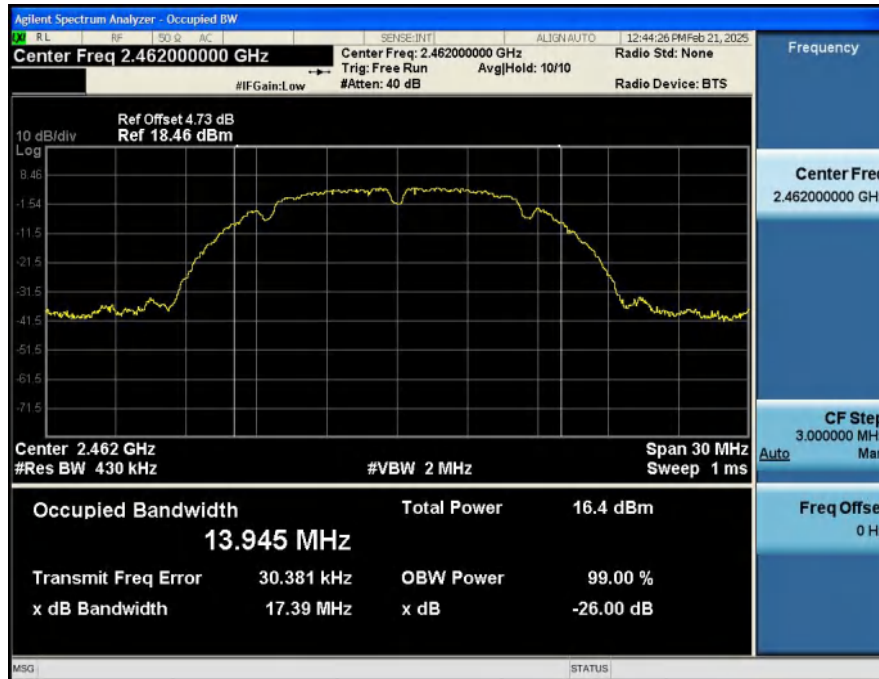
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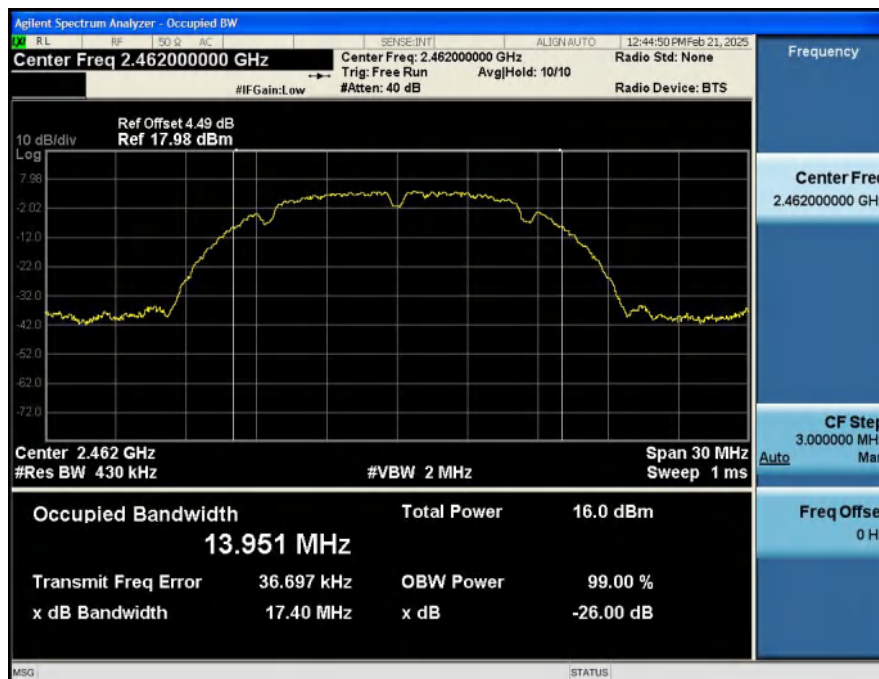
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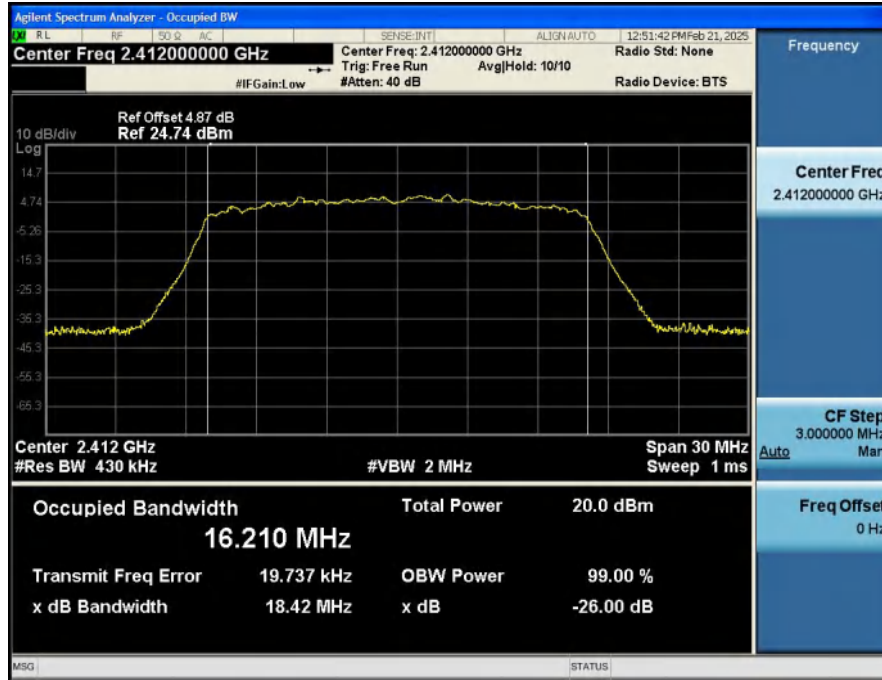
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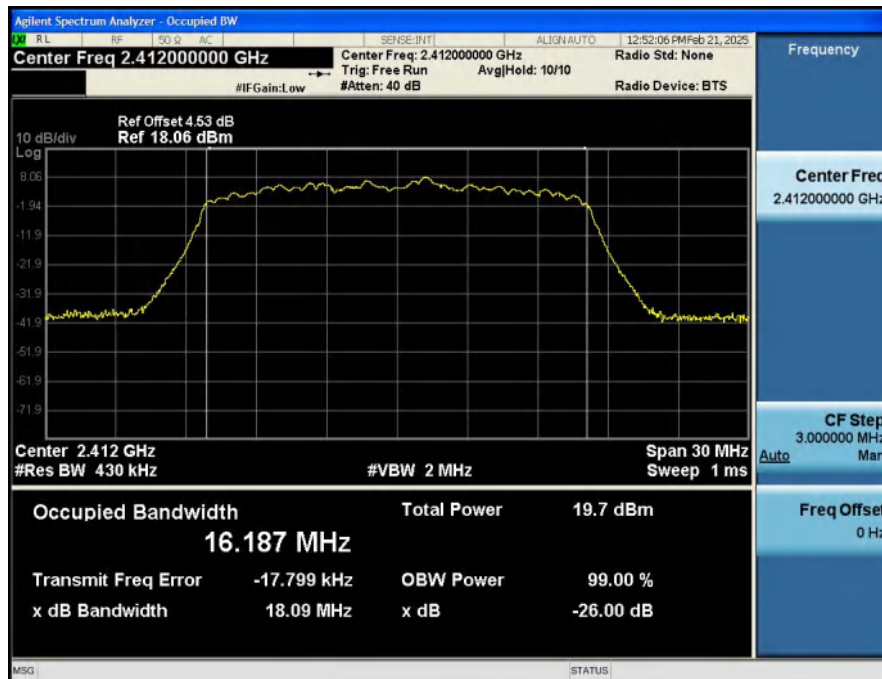
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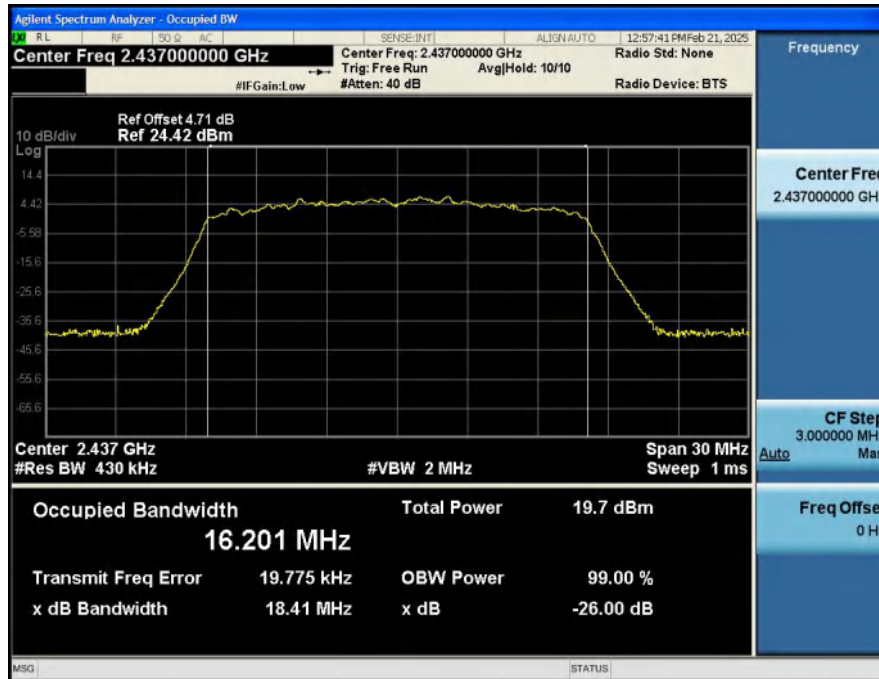
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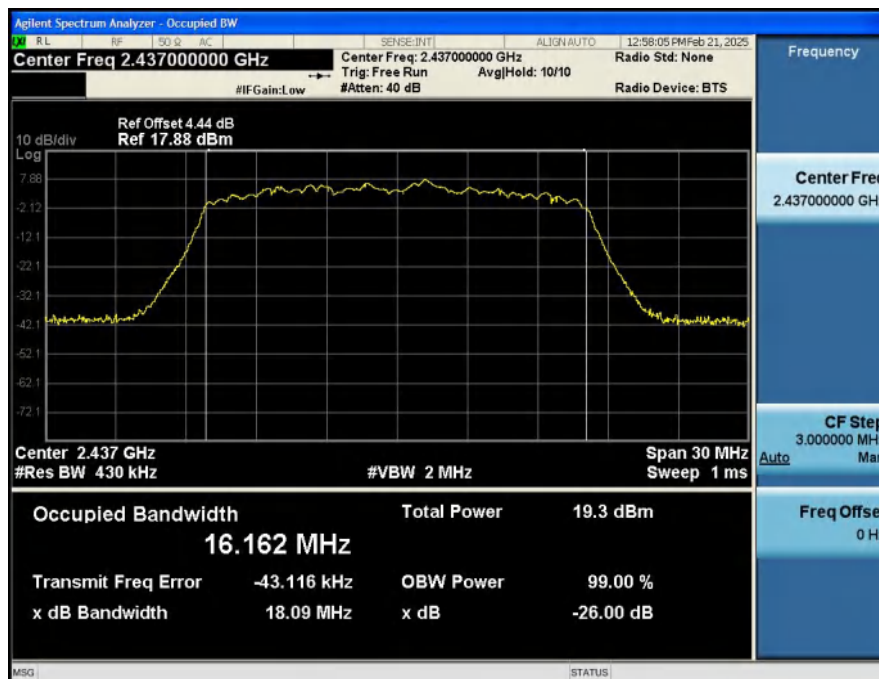
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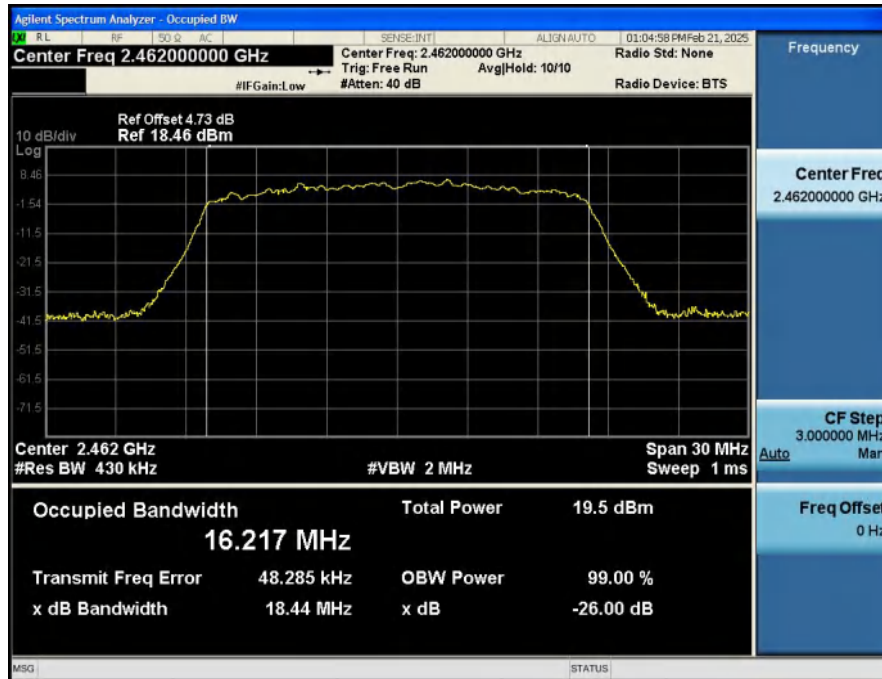
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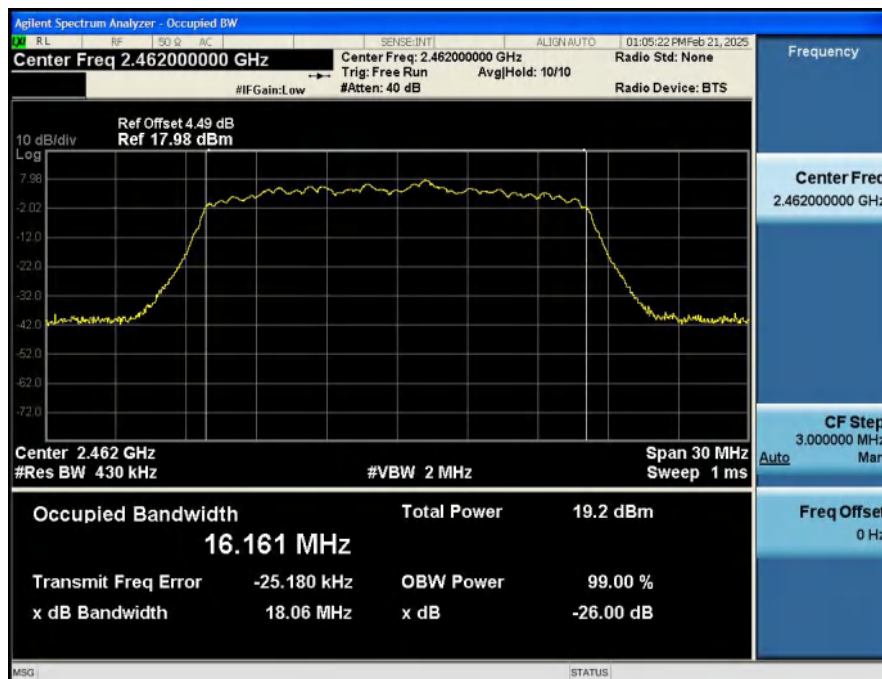
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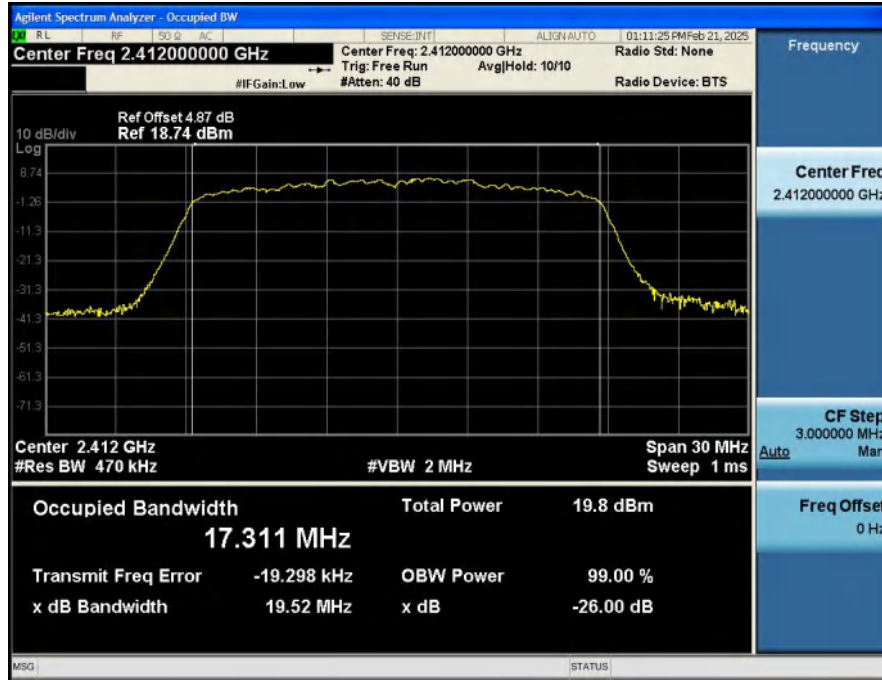
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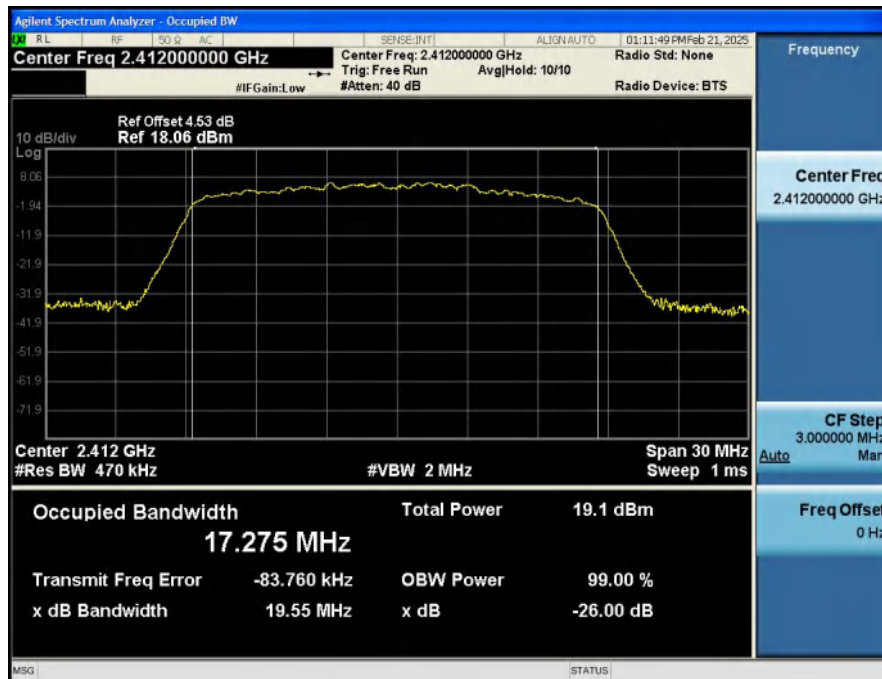
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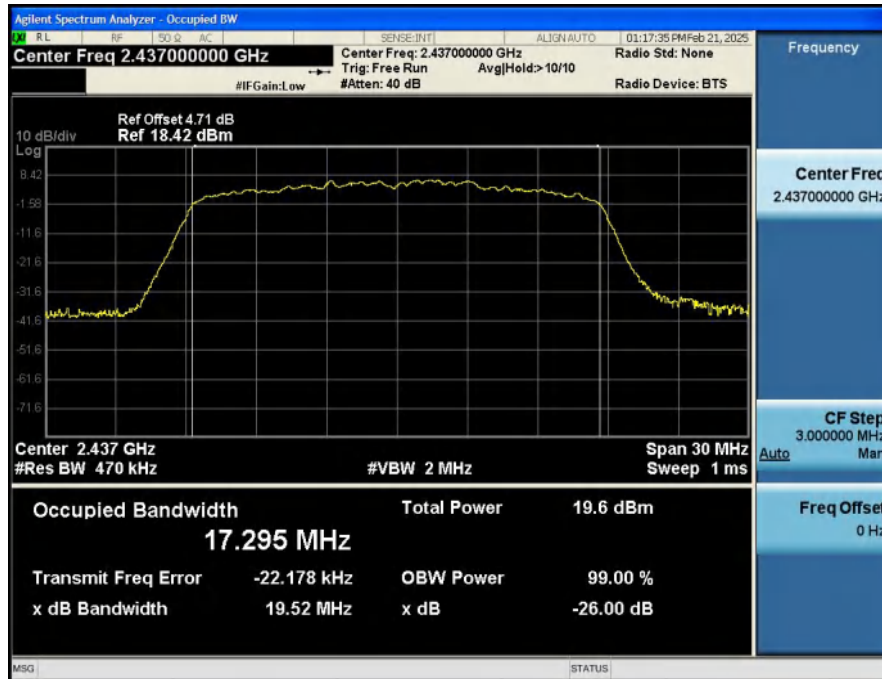
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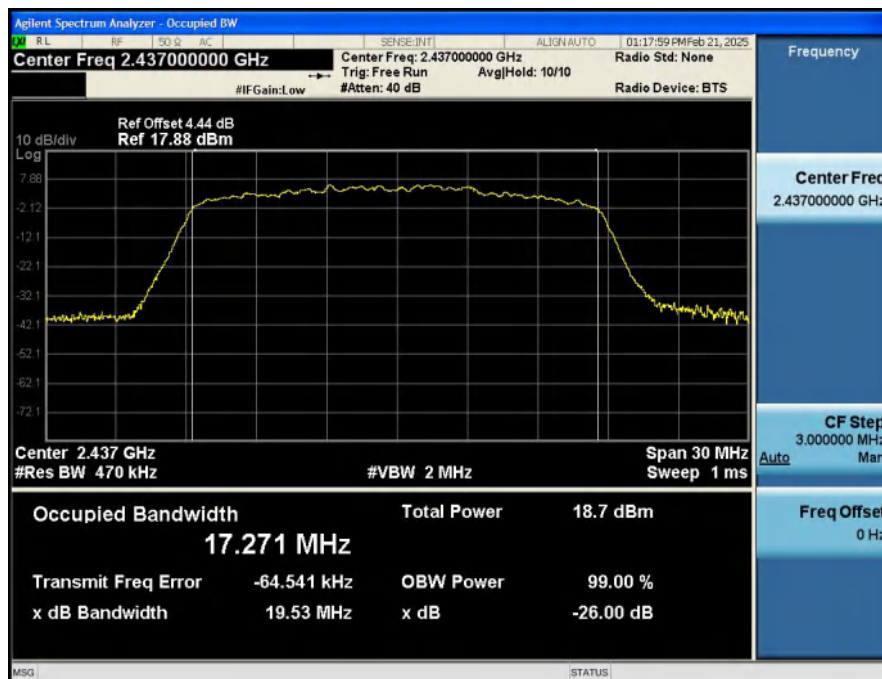
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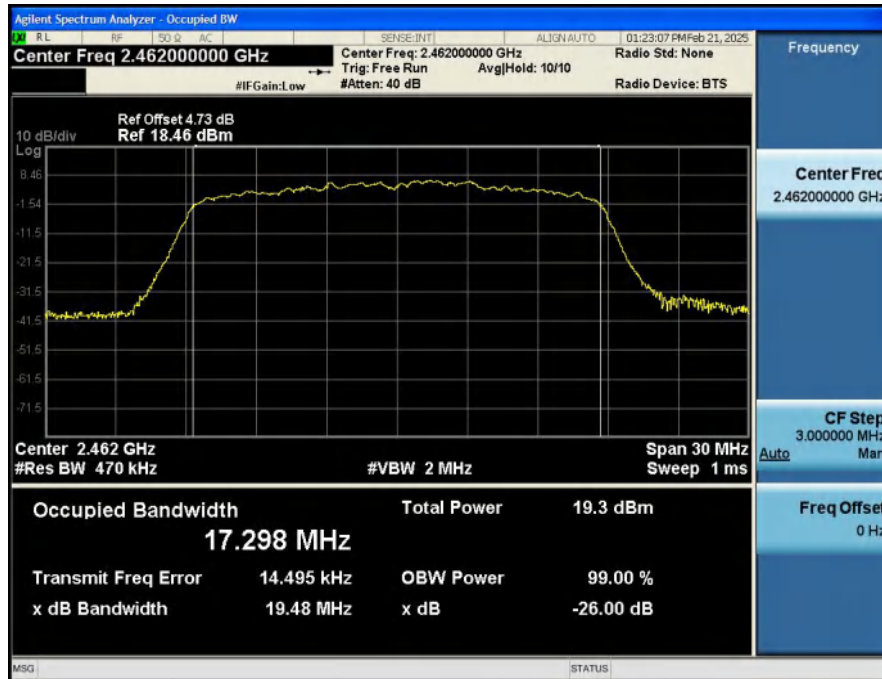
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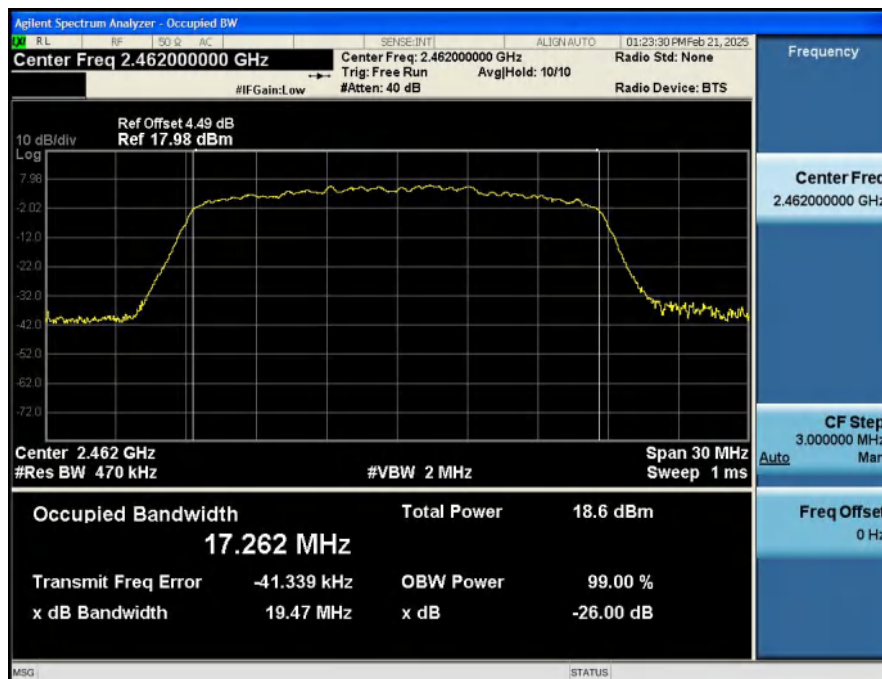
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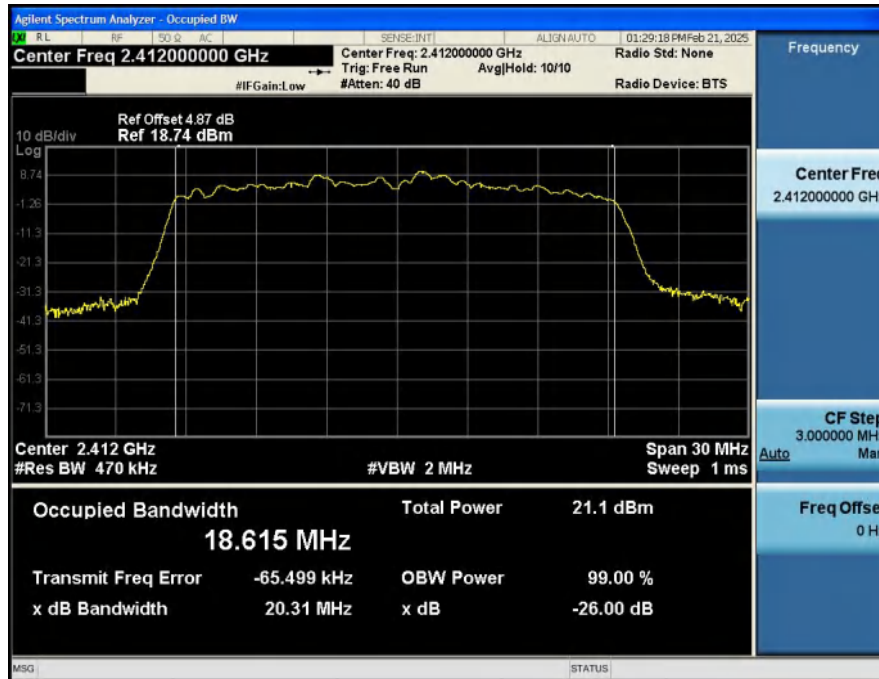
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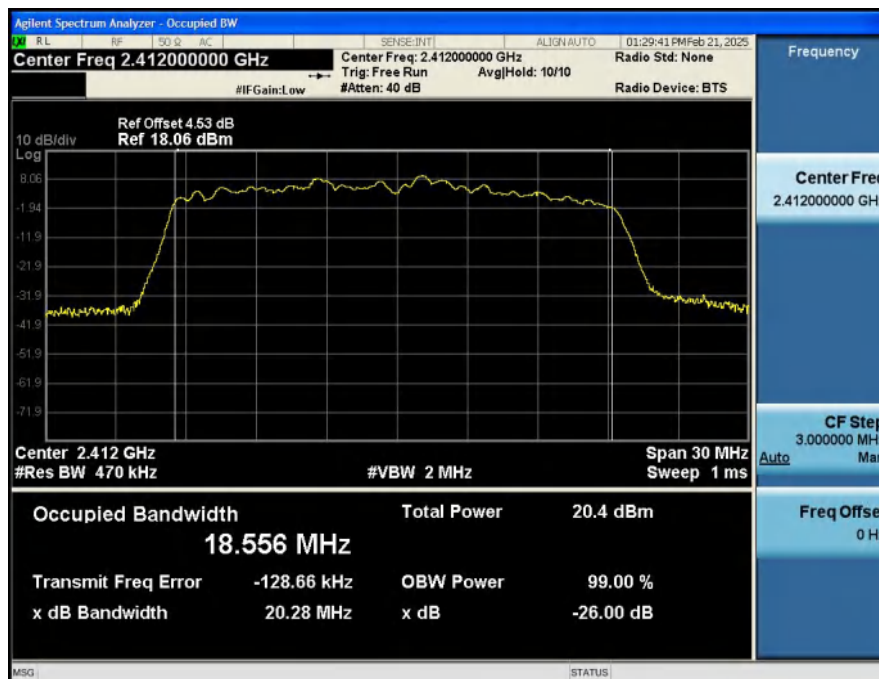
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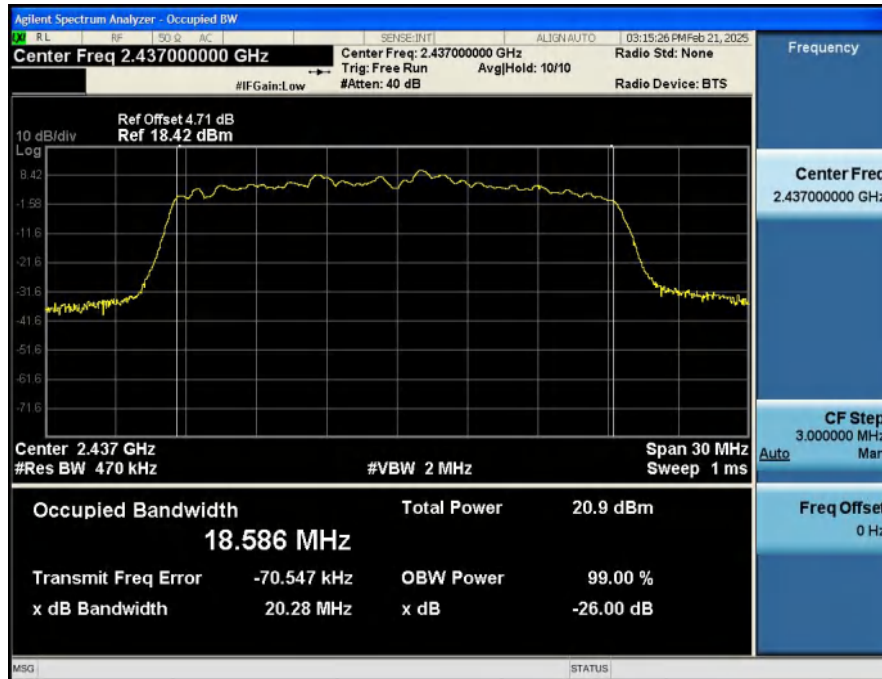
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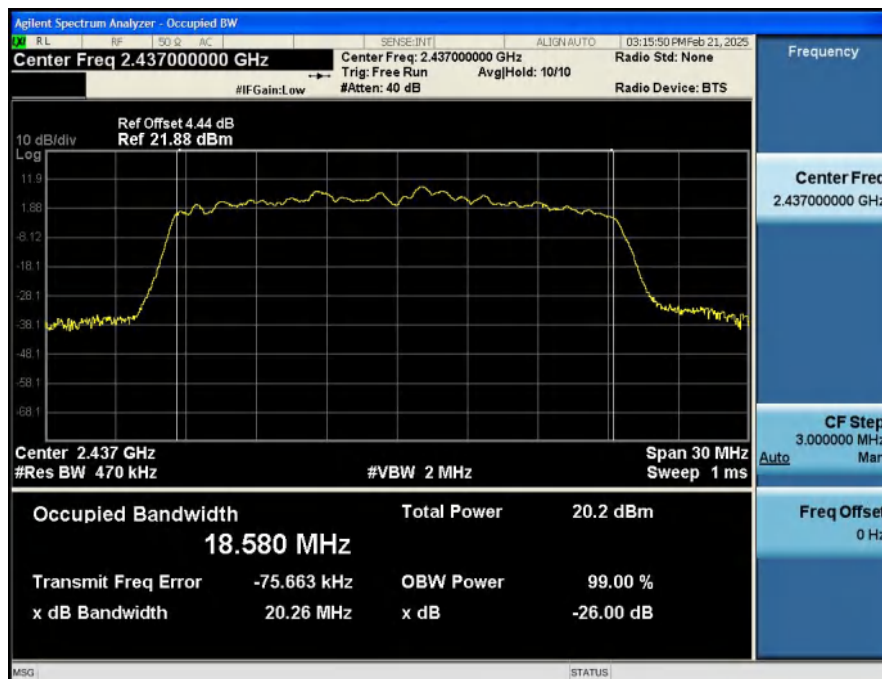
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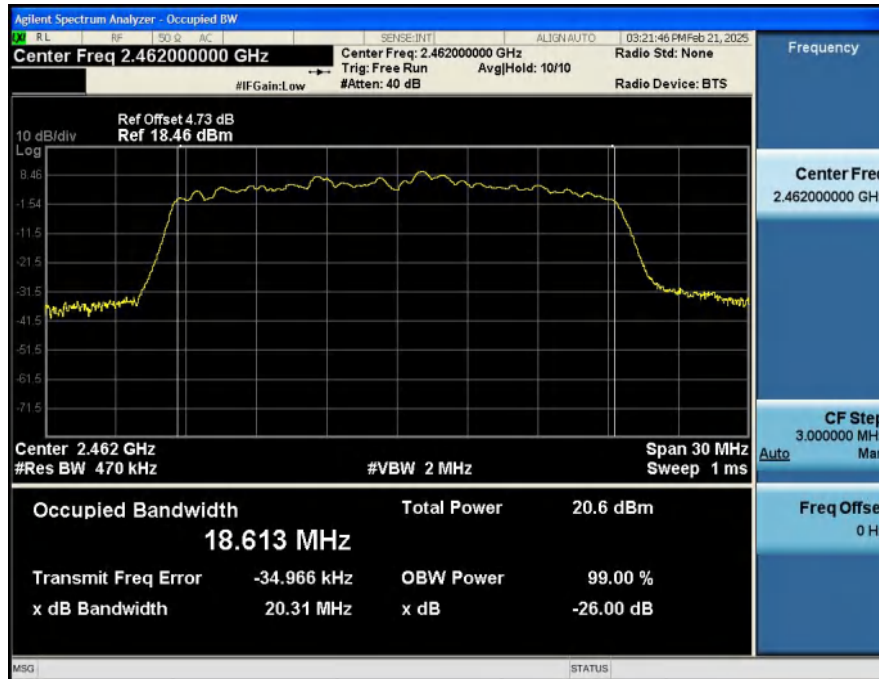
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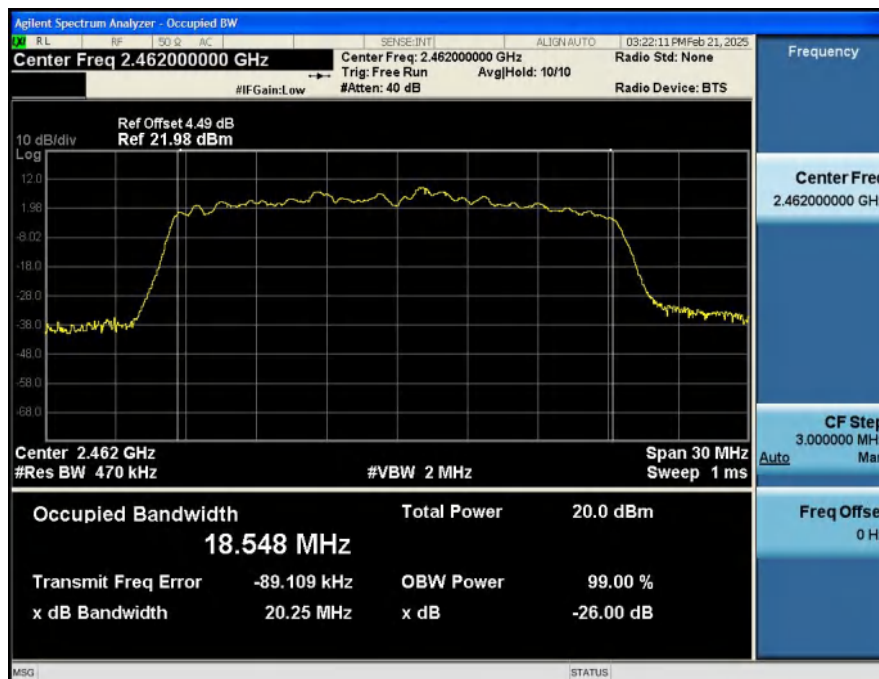
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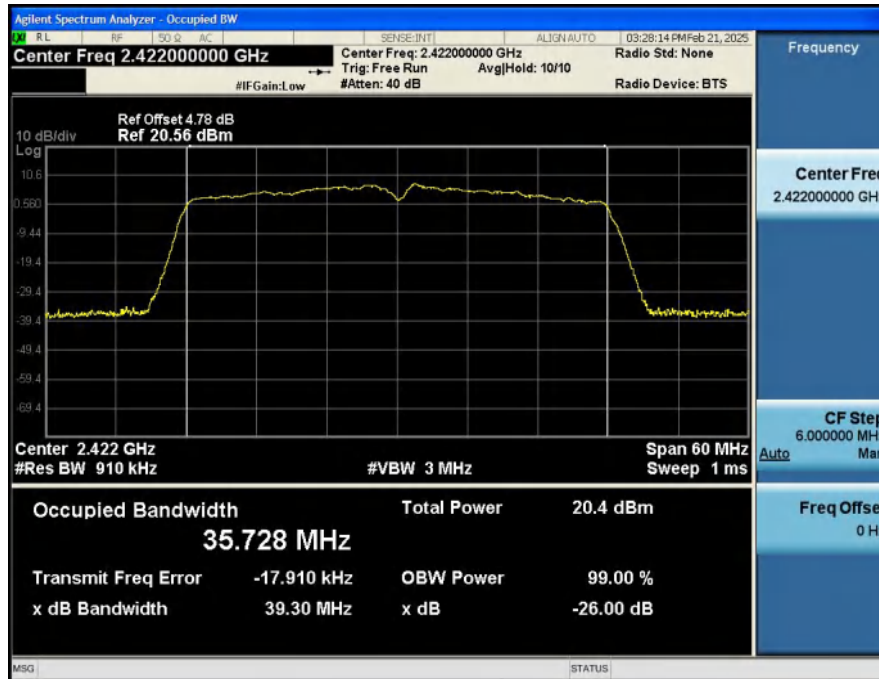
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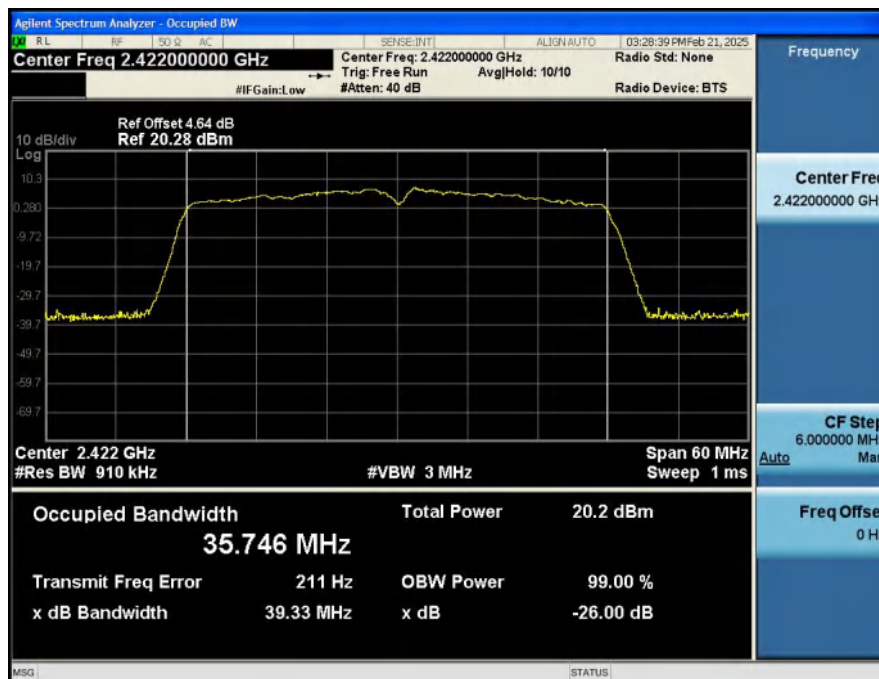
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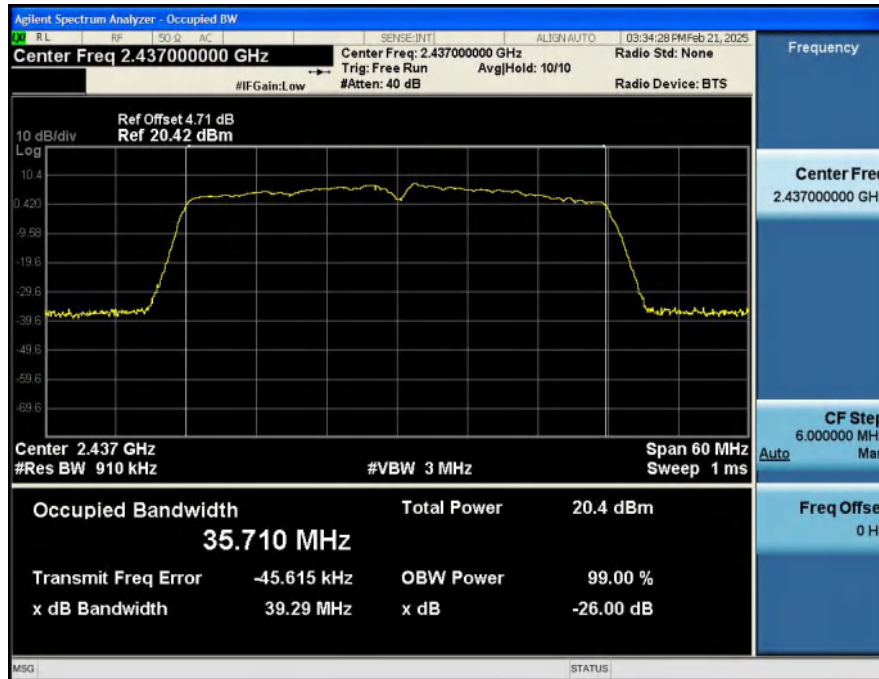
99%_Occupied_Bandwidth_NVNT_ANT1_802_11n(HT40)_2422



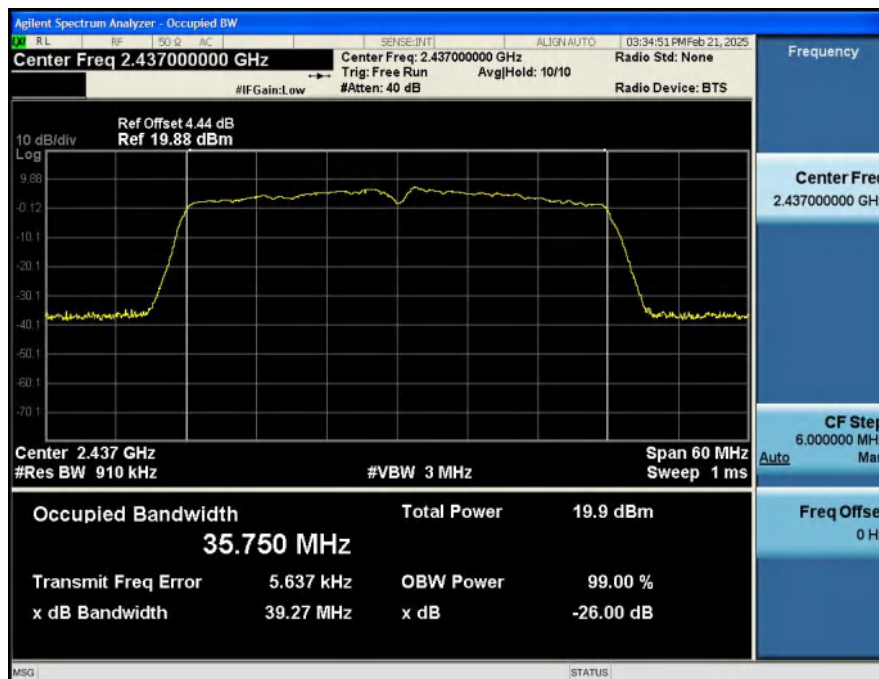
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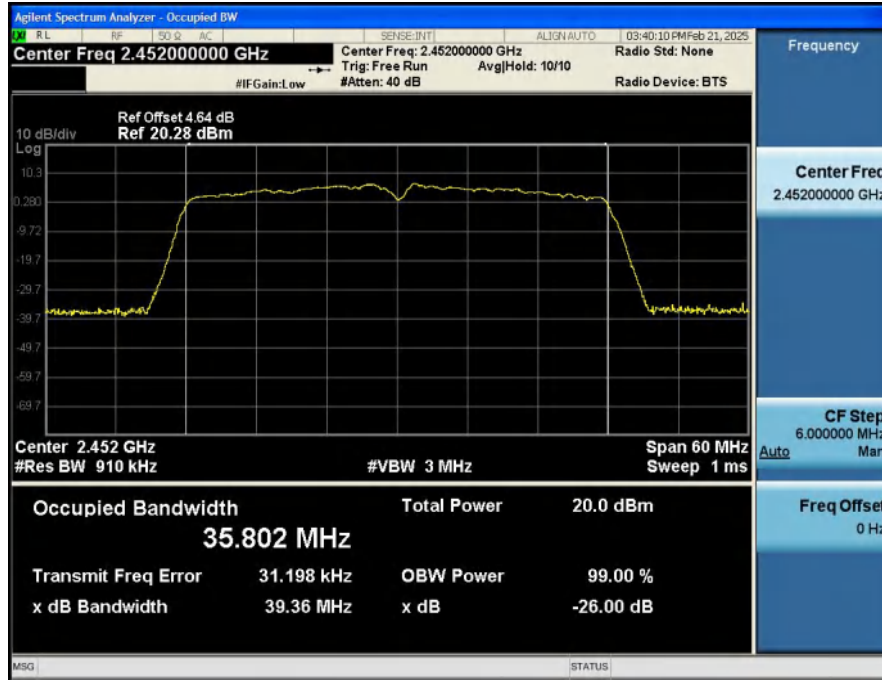
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99%_Occupied_Bandwidth_NVNT_ANT2_802_11n(HT40)_2437



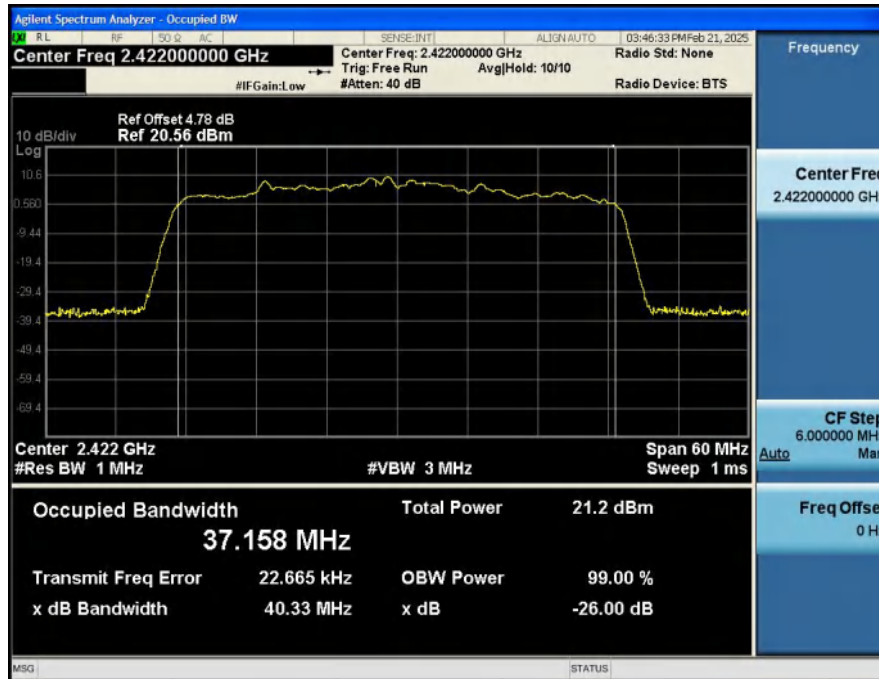
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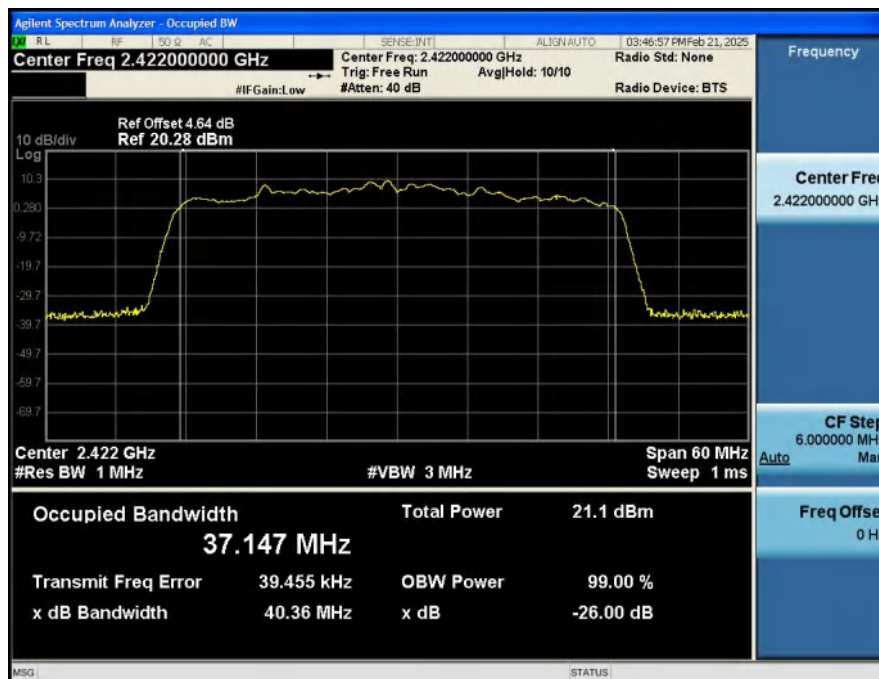
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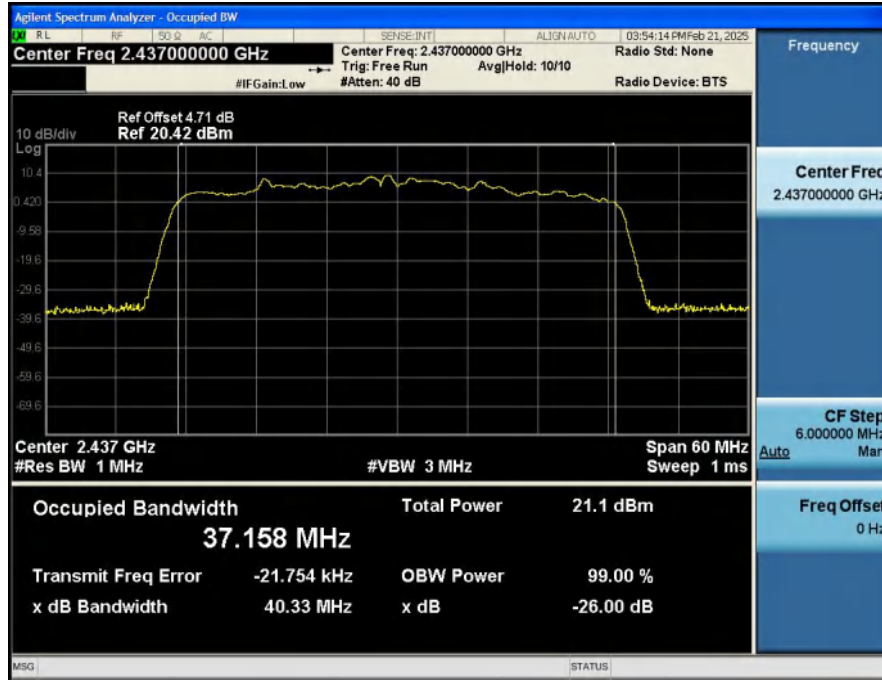
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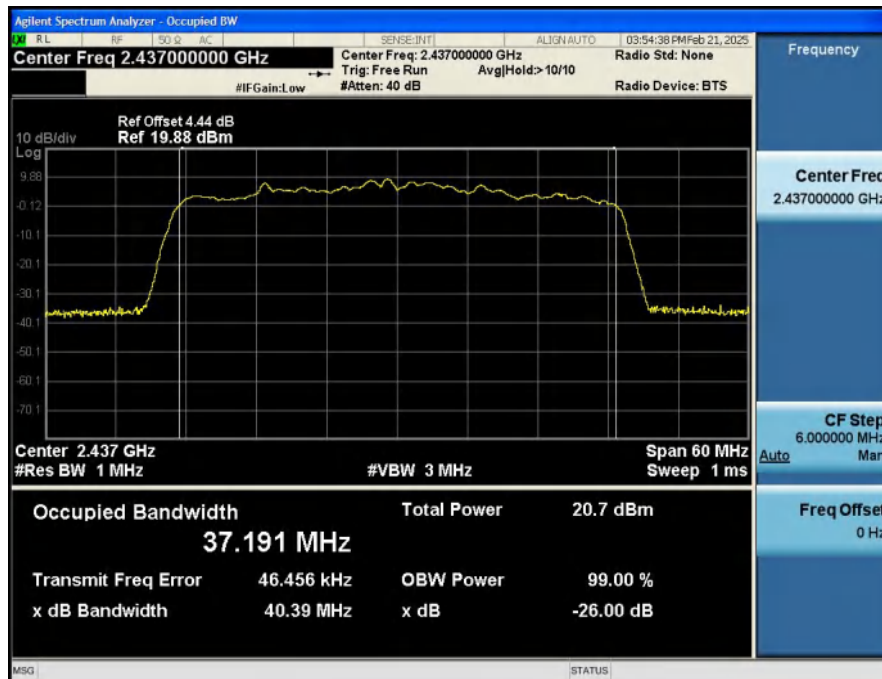
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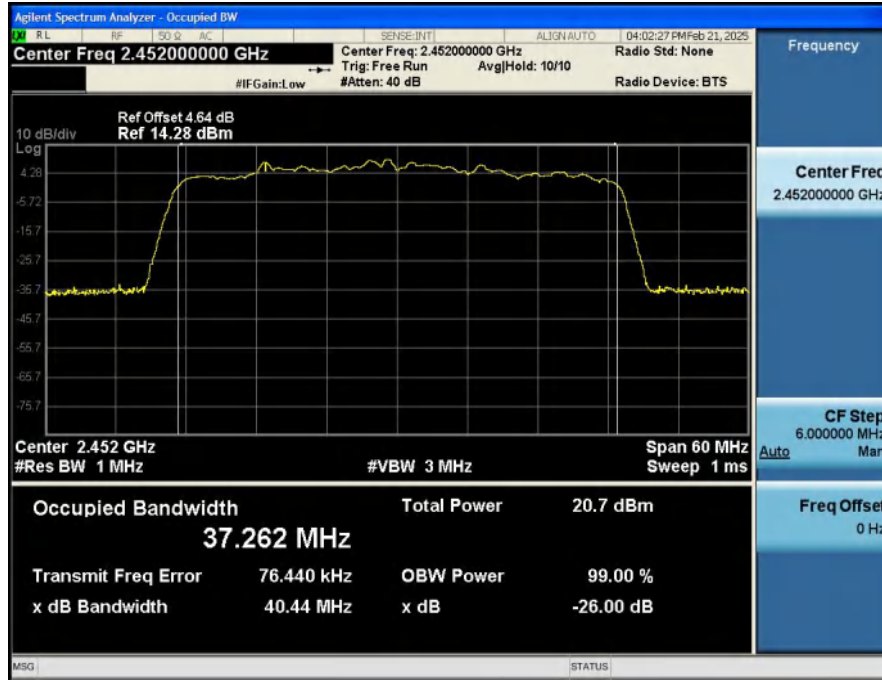
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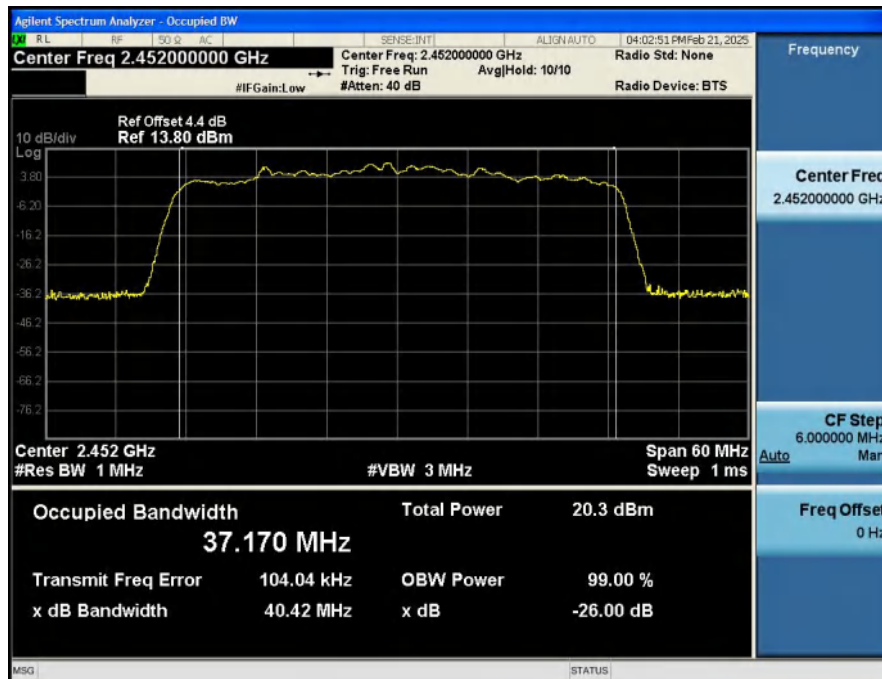
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99%_Occupied_Bandwidth_NVNT_ANT1_802_11ax(HE40)_2452



99%_Occupied_Bandwidth_NVNT_ANT2_802_11ax(HE40)_2452



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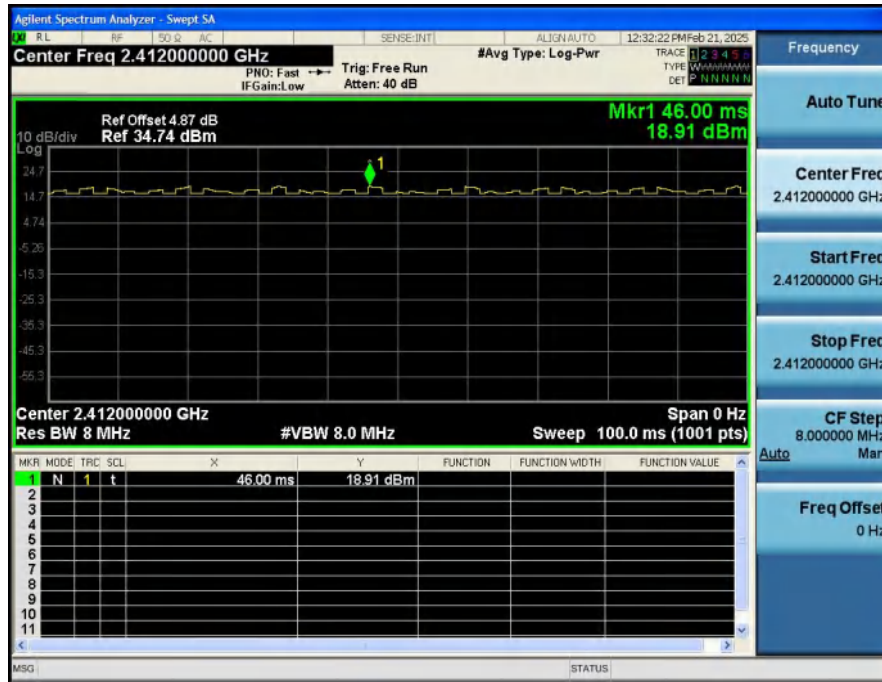
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotech.com

Hotline
400-003-0500
www.anbotech.com

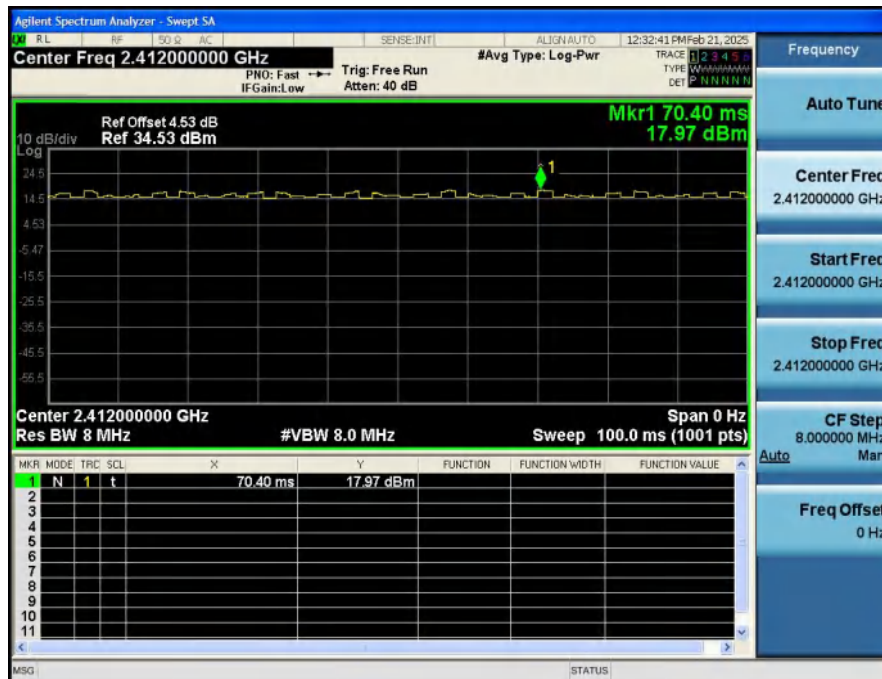
Appendix C: Duty Cycle

Condition	Antenna	Modulation	Frequency (MHz)	Duty cycle(%)	Duty factor(dB)
NVNT	ANT1	802.11b	2412.00	100	0.00
NVNT	ANT2	802.11b	2412.00	100	0.00
NVNT	ANT1	802.11b	2437.00	100	0.00
NVNT	ANT2	802.11b	2437.00	100	0.00
NVNT	ANT1	802.11b	2462.00	100	0.00
NVNT	ANT2	802.11b	2462.00	100	0.00
NVNT	ANT1	802.11g	2412.00	100	0.00
NVNT	ANT2	802.11g	2412.00	100	0.00
NVNT	ANT1	802.11g	2437.00	100	0.00
NVNT	ANT2	802.11g	2437.00	100	0.00
NVNT	ANT1	802.11g	2462.00	100	0.00
NVNT	ANT2	802.11g	2462.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT2	802.11n(HT20)	2412.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT2	802.11n(HT20)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT2	802.11n(HT20)	2462.00	100	0.00
NVNT	ANT1	802.11ax(HEW20)	2412.00	100	0.00
NVNT	ANT2	802.11ax(HEW20)	2412.00	100	0.00
NVNT	ANT1	802.11ax(HEW20)	2437.00	100	0.00
NVNT	ANT2	802.11ax(HEW20)	2437.00	100	0.00
NVNT	ANT1	802.11ax(HEW20)	2462.00	100	0.00
NVNT	ANT2	802.11ax(HEW20)	2462.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT2	802.11n(HT40)	2422.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT2	802.11n(HT40)	2437.00	100	0.00
NVNT	ANT1	802.11n(HT40)	2452.00	100	0.00
NVNT	ANT2	802.11n(HT40)	2452.00	100	0.00
NVNT	ANT1	802.11ax(HEW40)	2422.00	100	0.00
NVNT	ANT2	802.11ax(HEW40)	2422.00	100	0.00
NVNT	ANT1	802.11ax(HEW40)	2437.00	100	0.00
NVNT	ANT2	802.11ax(HEW40)	2437.00	100	0.00
NVNT	ANT1	802.11ax(HEW40)	2452.00	100	0.00
NVNT	ANT2	802.11ax(HEW40)	2452.00	100	0.00

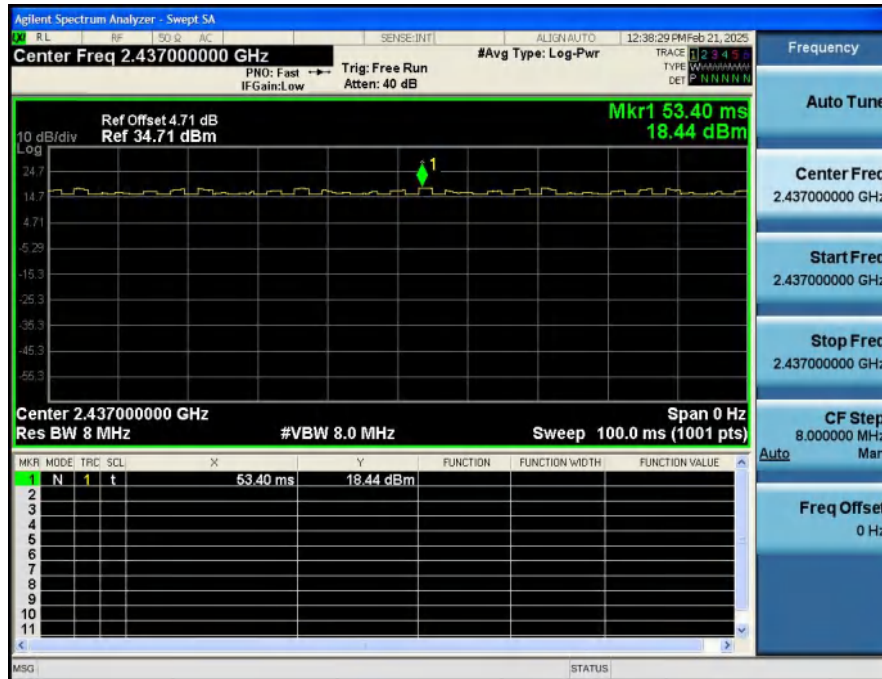
Duty_Cycle_NVNT_ANT1_802_11b_2412



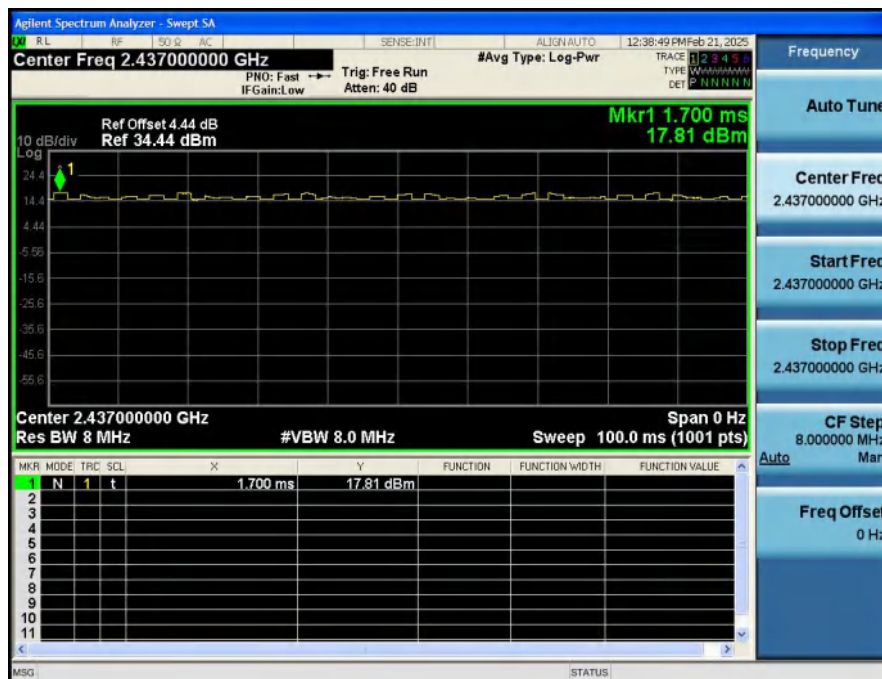
Duty_Cycle_NVNT_ANT2_802_11b_2412



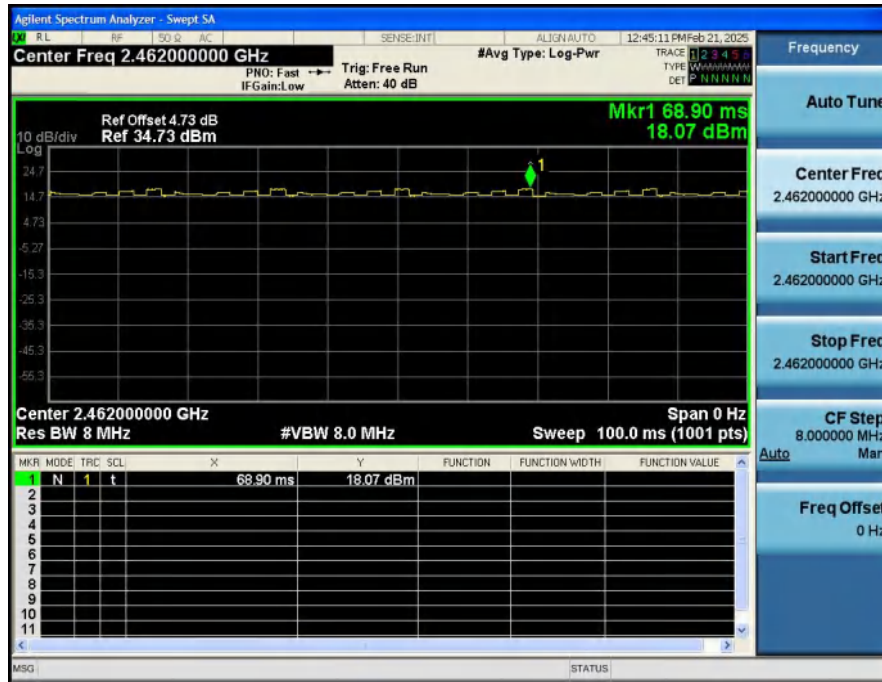
Duty_Cycle_NVNT_ANT1_802_11b_2437



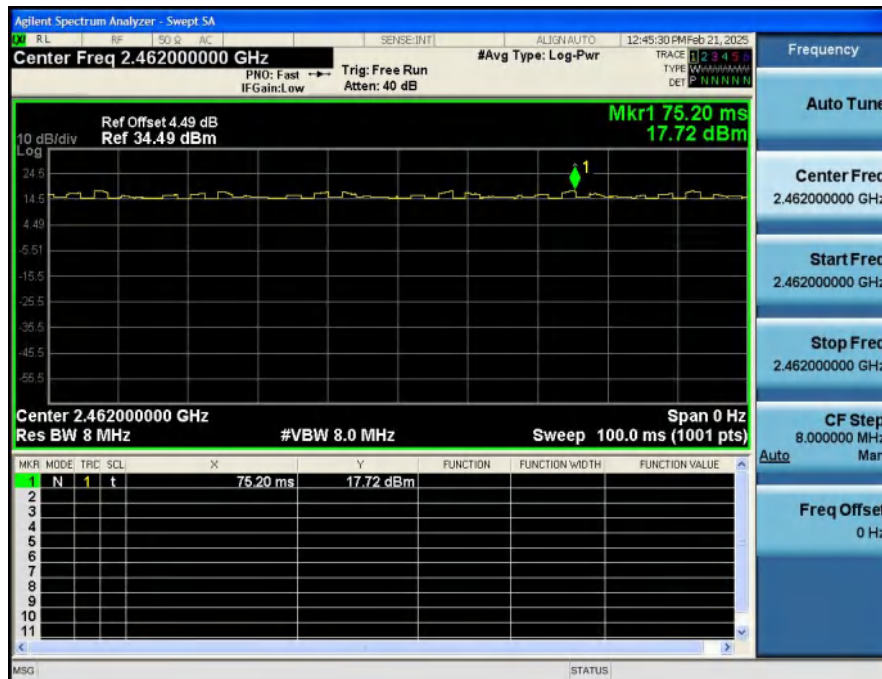
Duty_Cycle_NVNT_ANT2_802_11b_2437



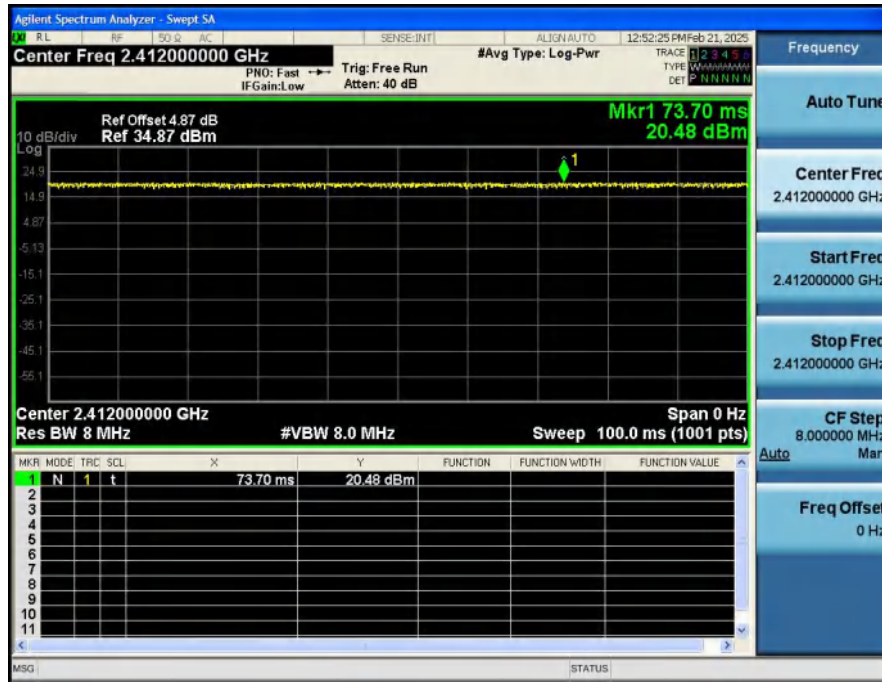
Duty_Cycle_NVNT_ANT1_802_11b_2462



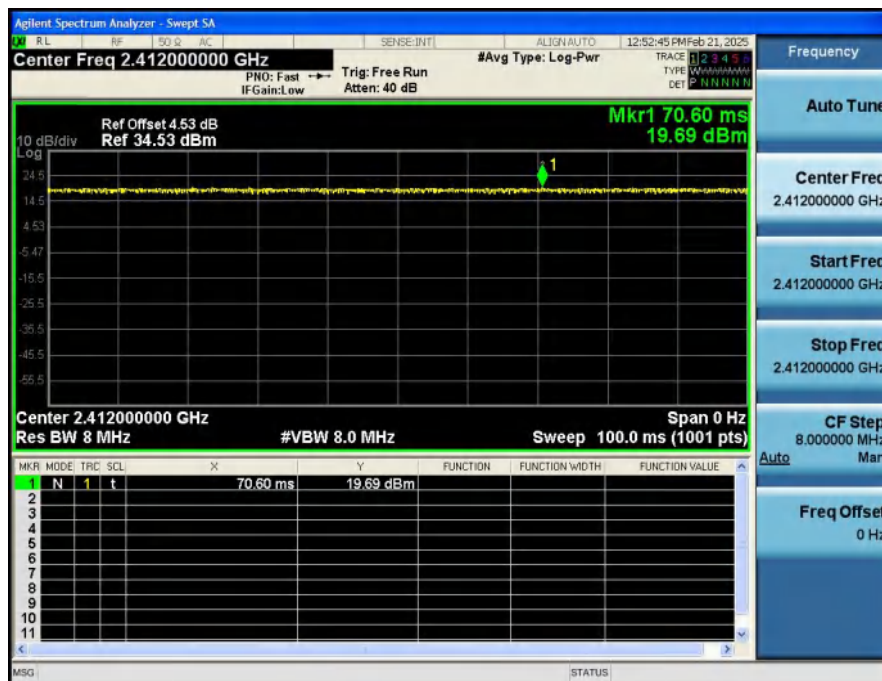
Duty_Cycle_NVNT_ANT2_802_11b_2462



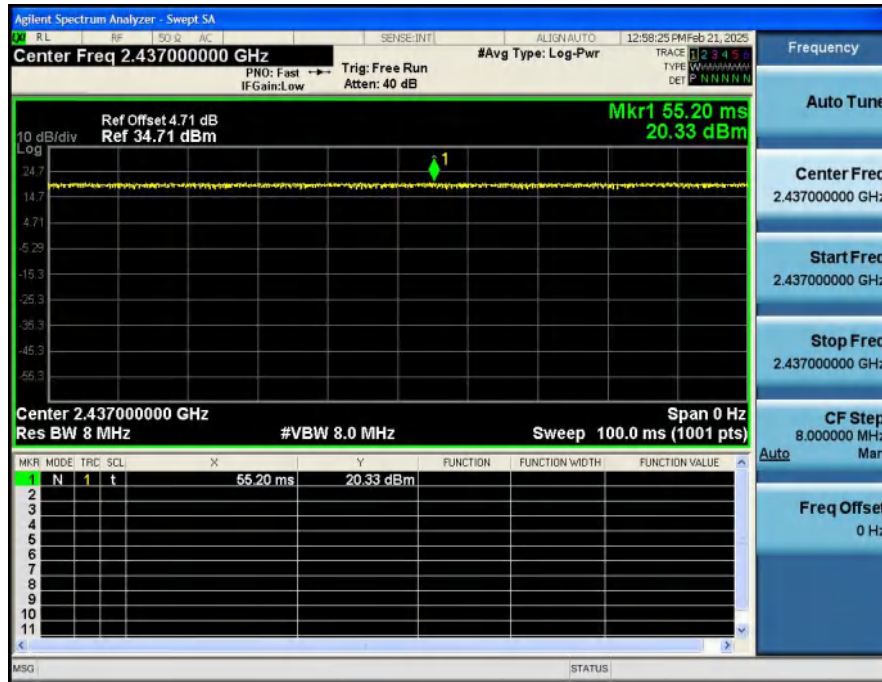
Duty_Cycle_NVNT_ANT1_802_11g_2412



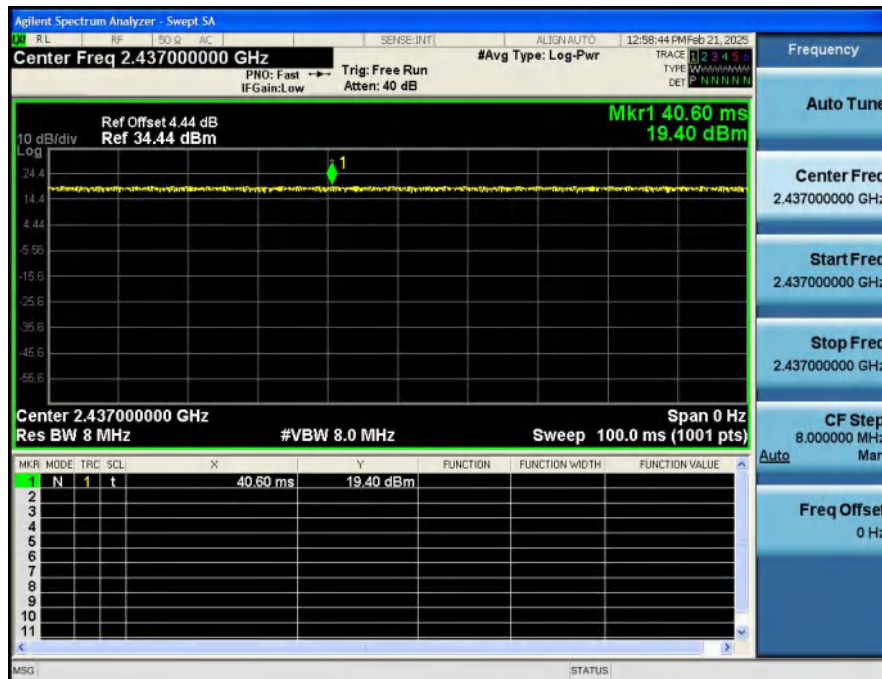
Duty_Cycle_NVNT_ANT2_802_11g_2412



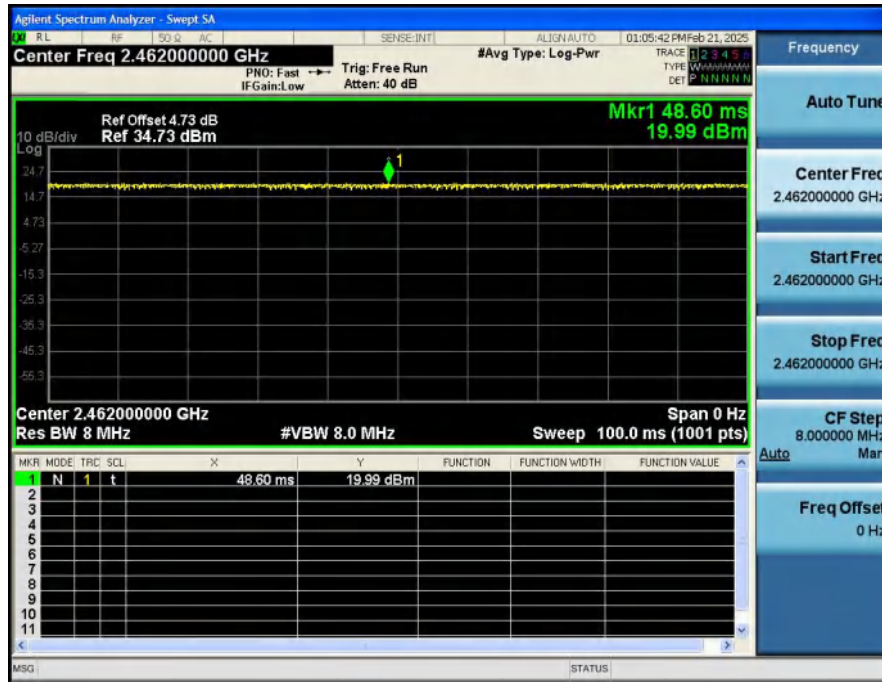
Duty_Cycle_NVNT_ANT1_802_11g_2437



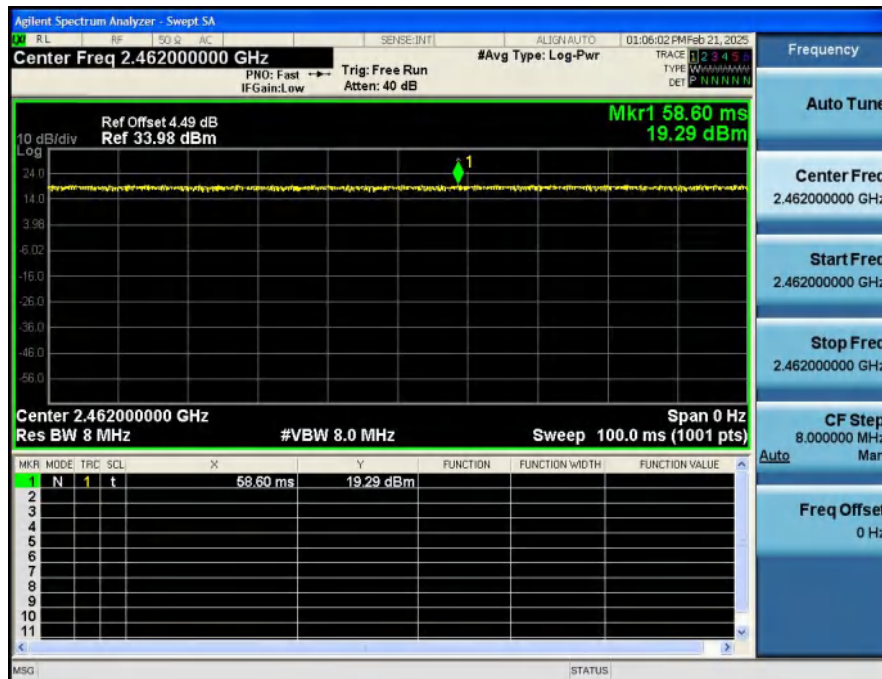
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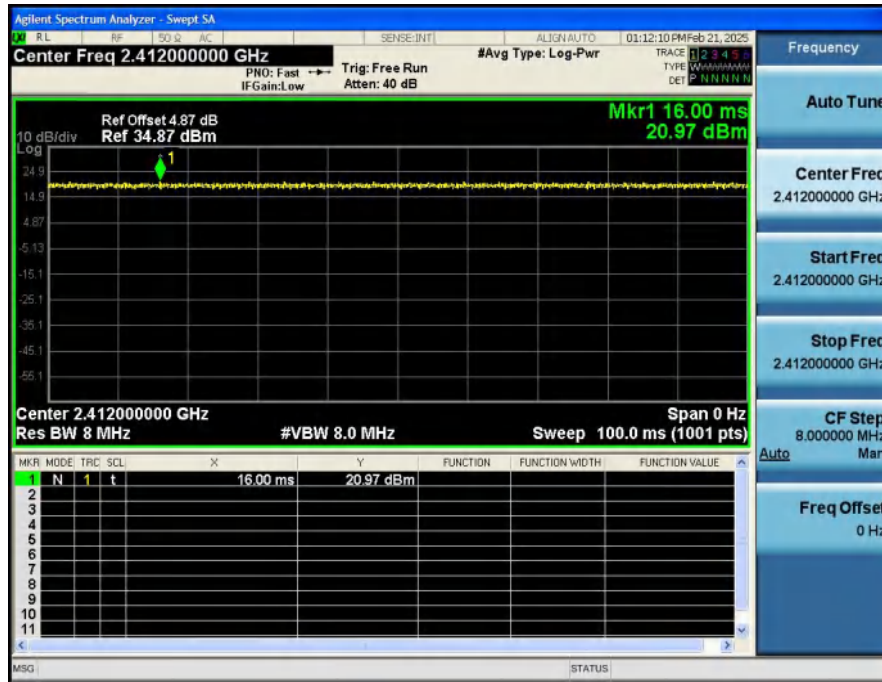
Duty_Cycle_NVNT_ANT1_802_11g_2462



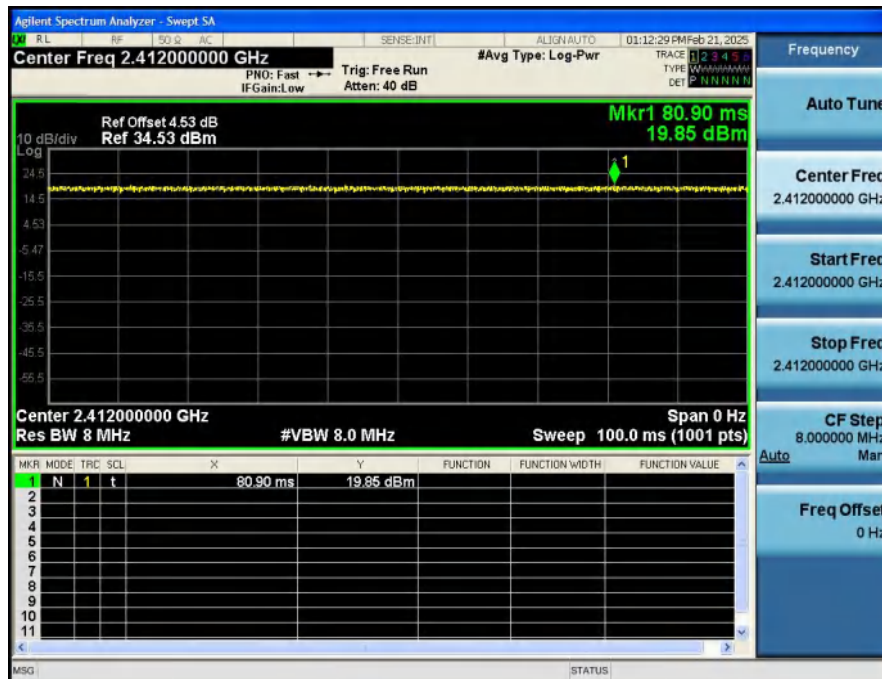
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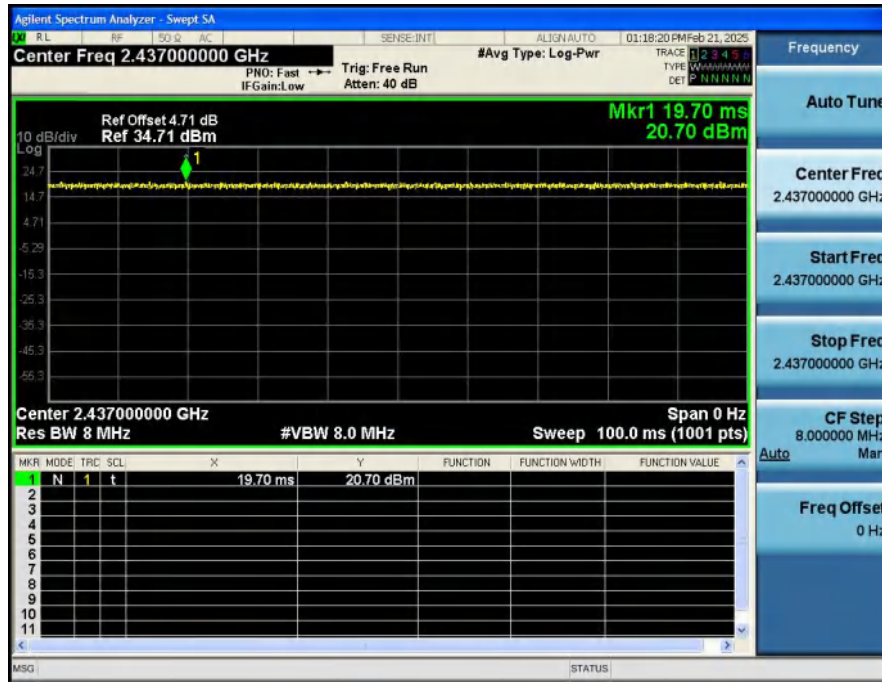
Duty_Cycle_NVNT_ANT1_802_11n(HT20)_2412



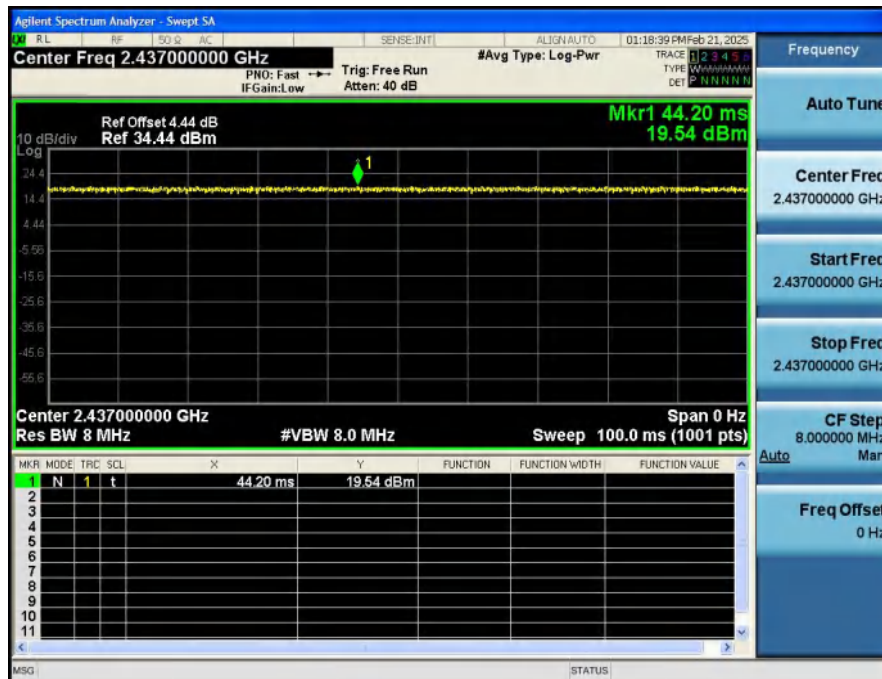
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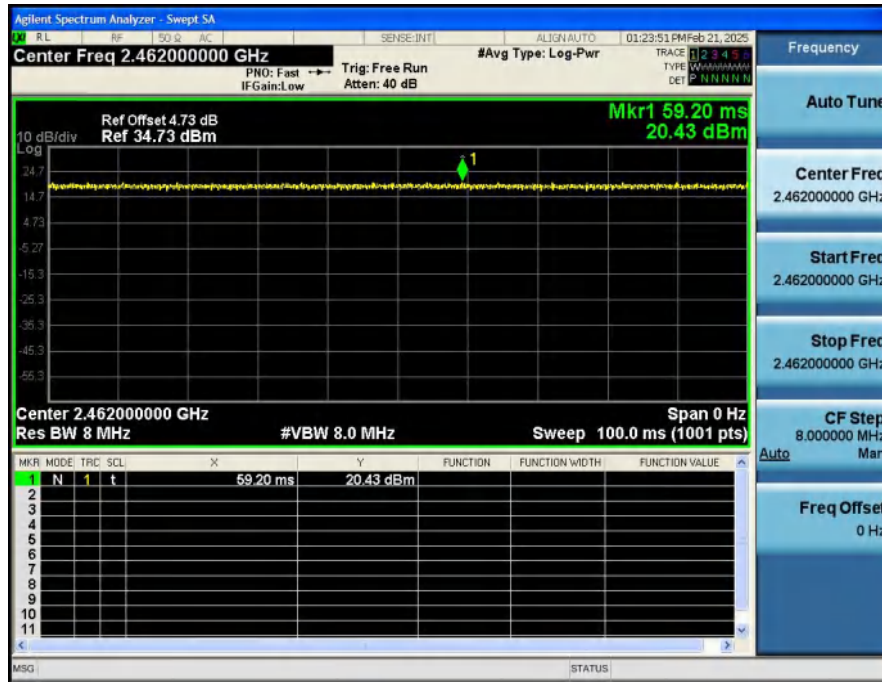
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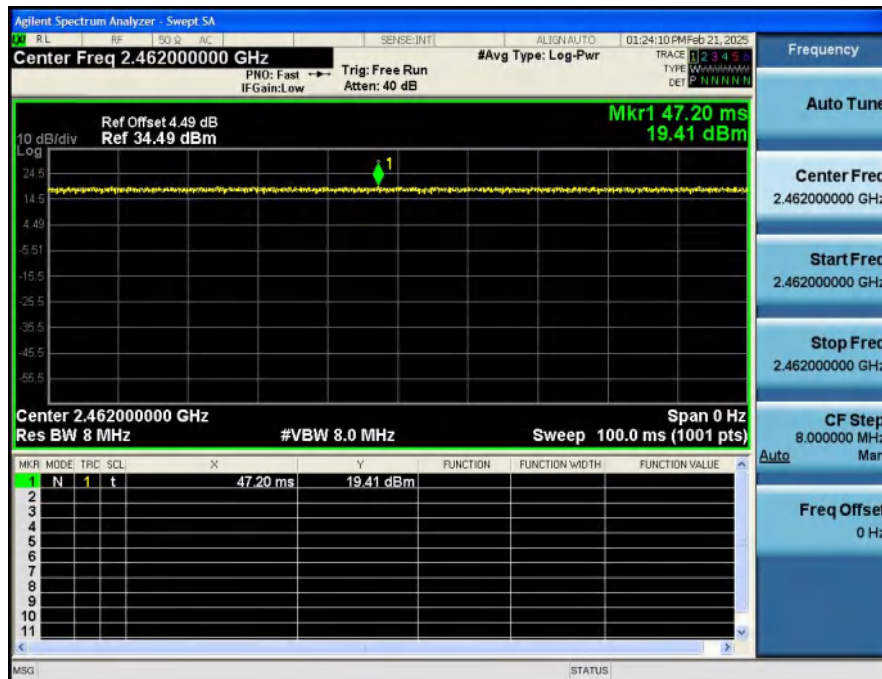
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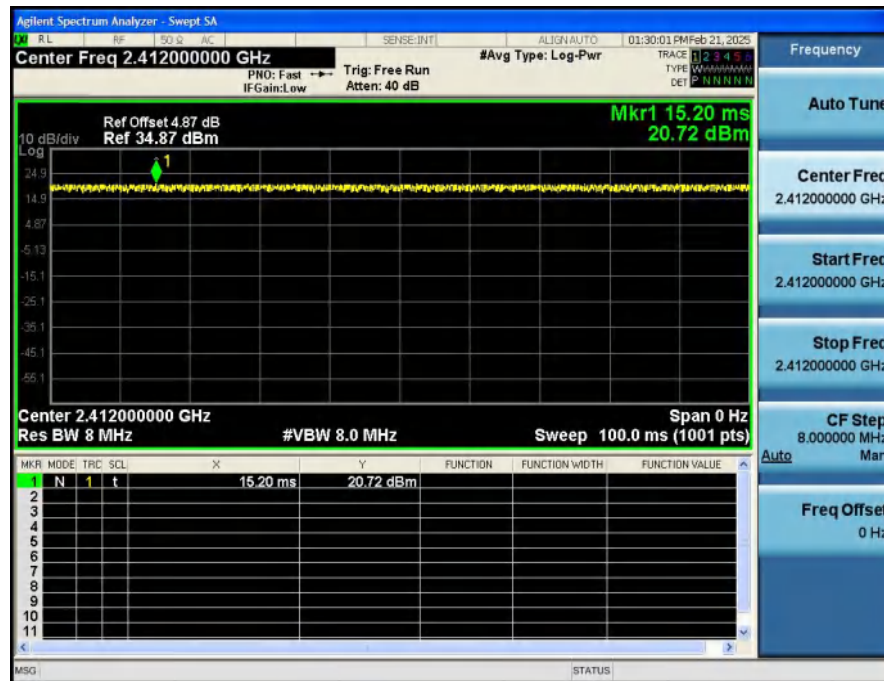
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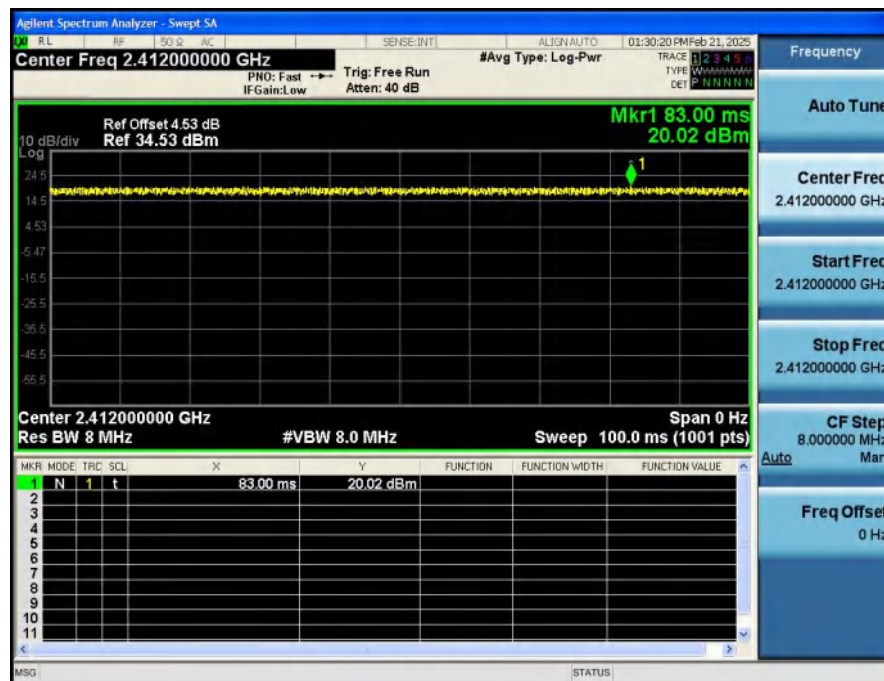
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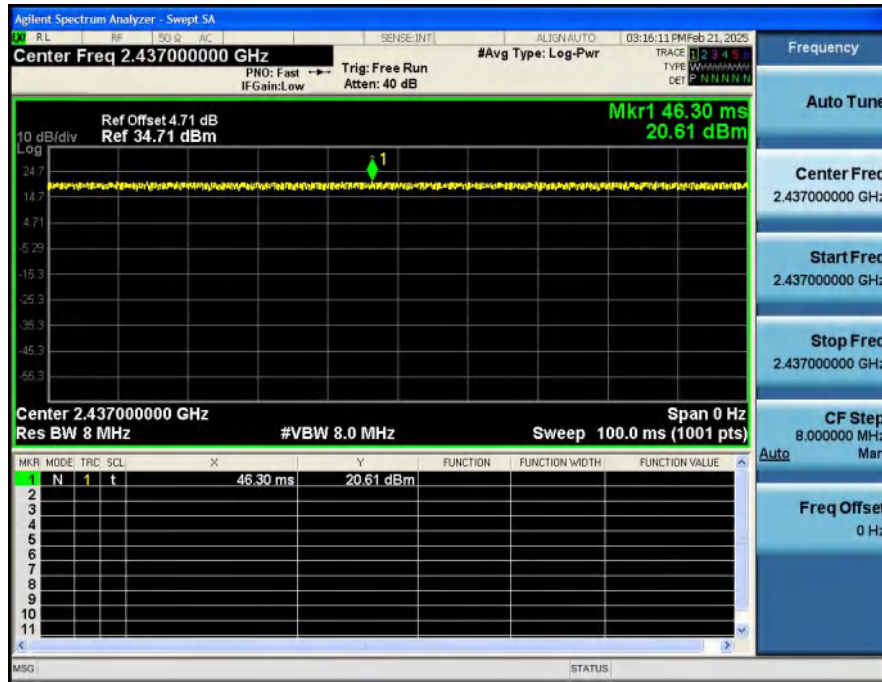
Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2412



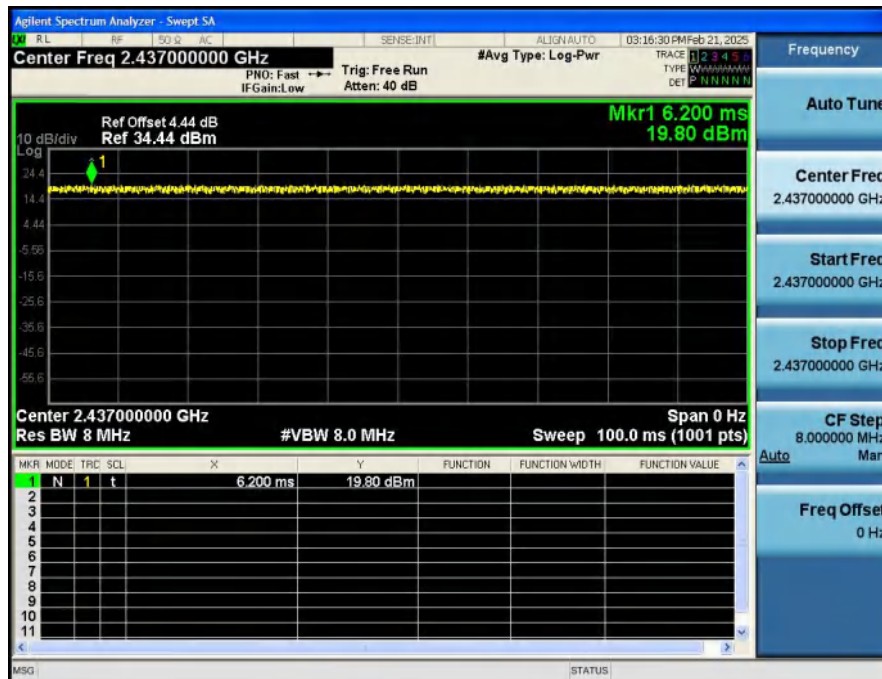
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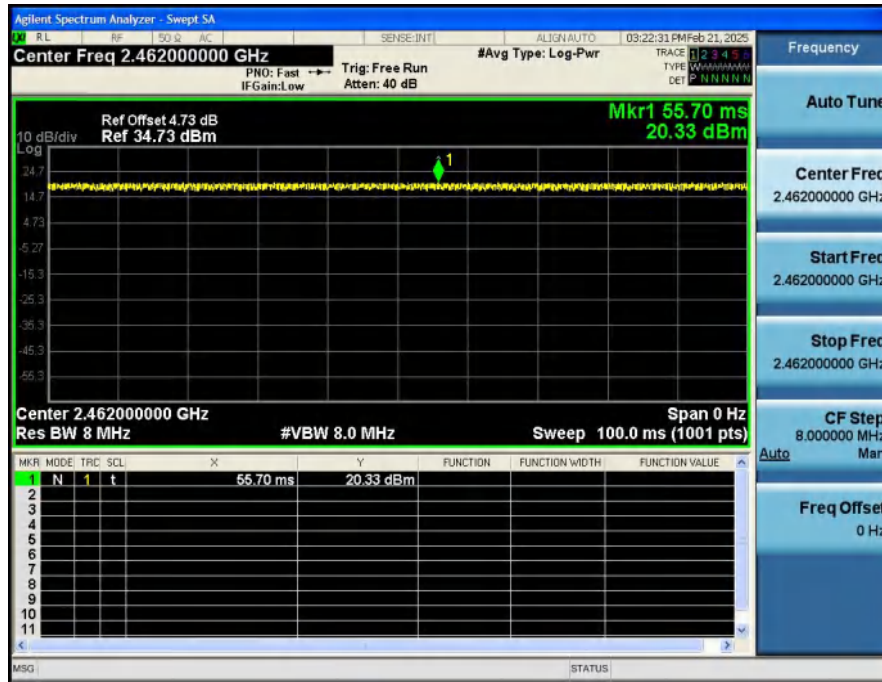
Duty_Cycle_NVNT_ANT1_802_11ax(HE20)_2437



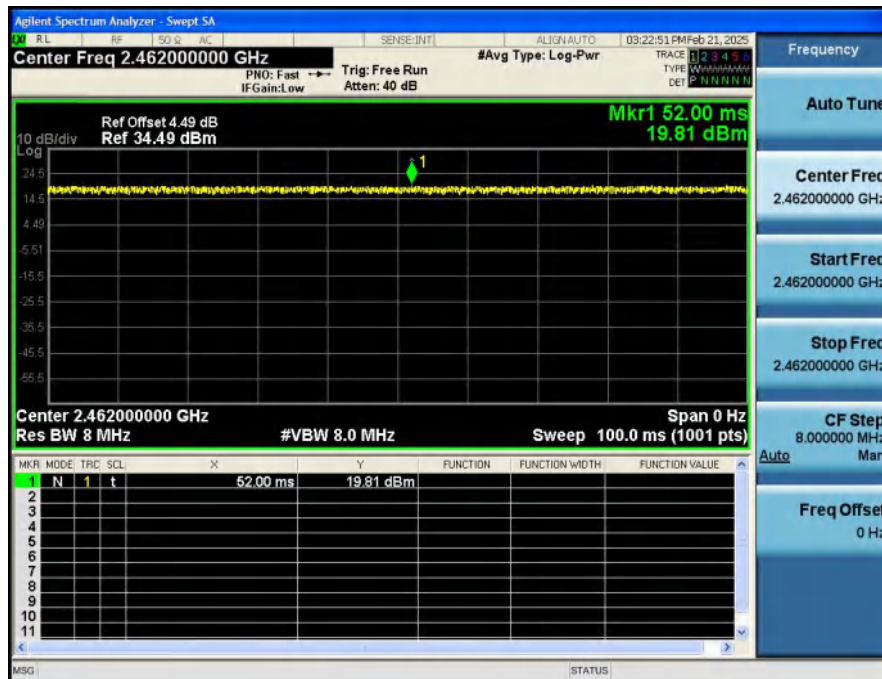
Duty_Cycle_NVNT_ANT2_802_11ax(HE20)_2437



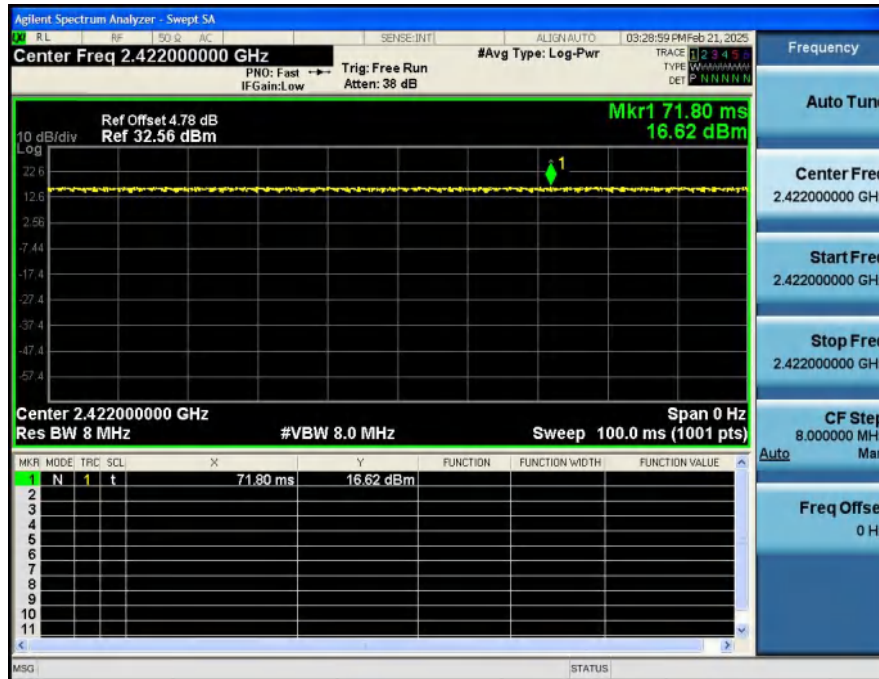
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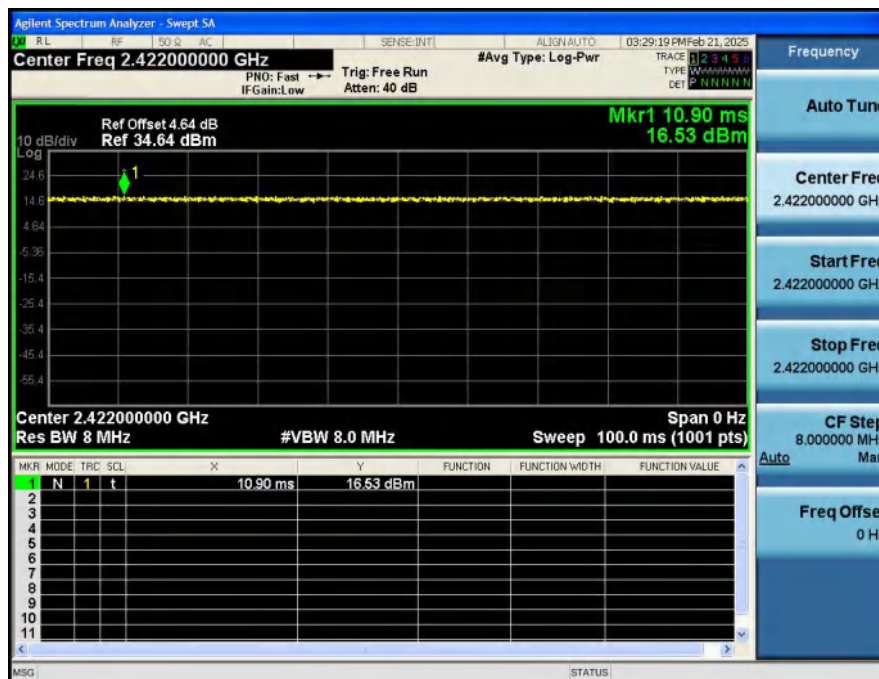
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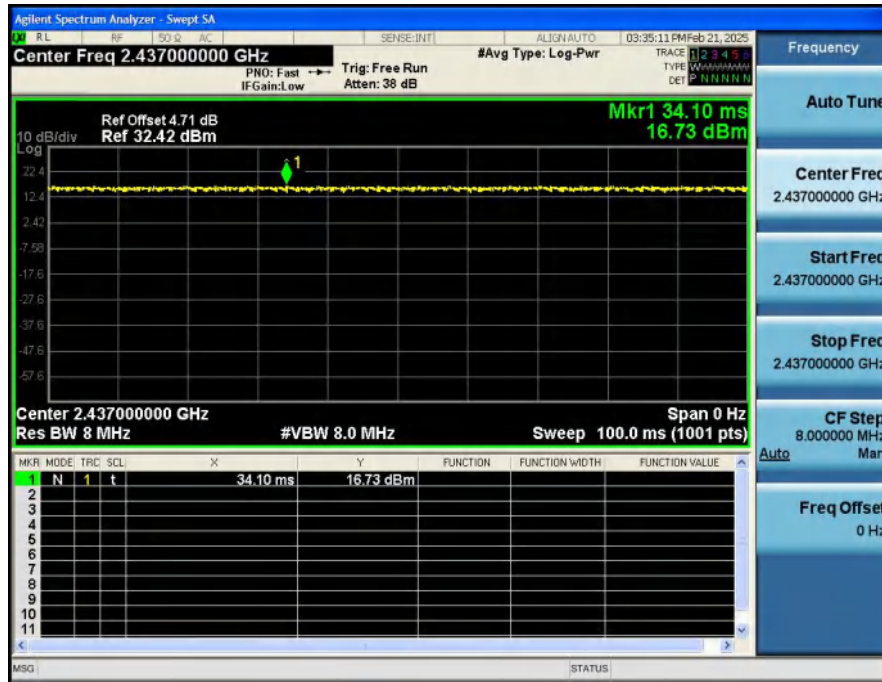
Duty_Cycle_NVNT_ANT1_802_11n(HT40)_2422



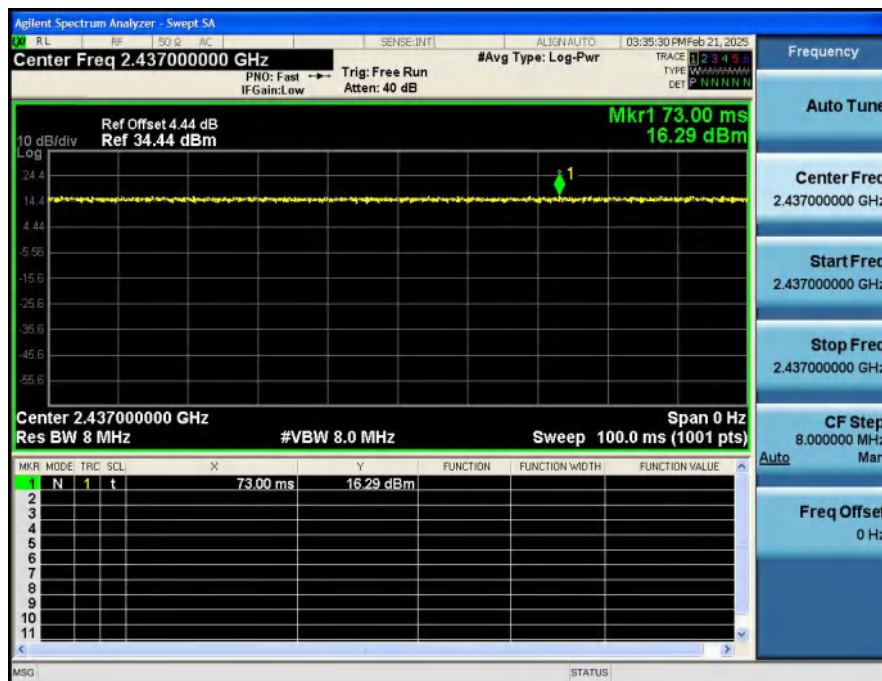
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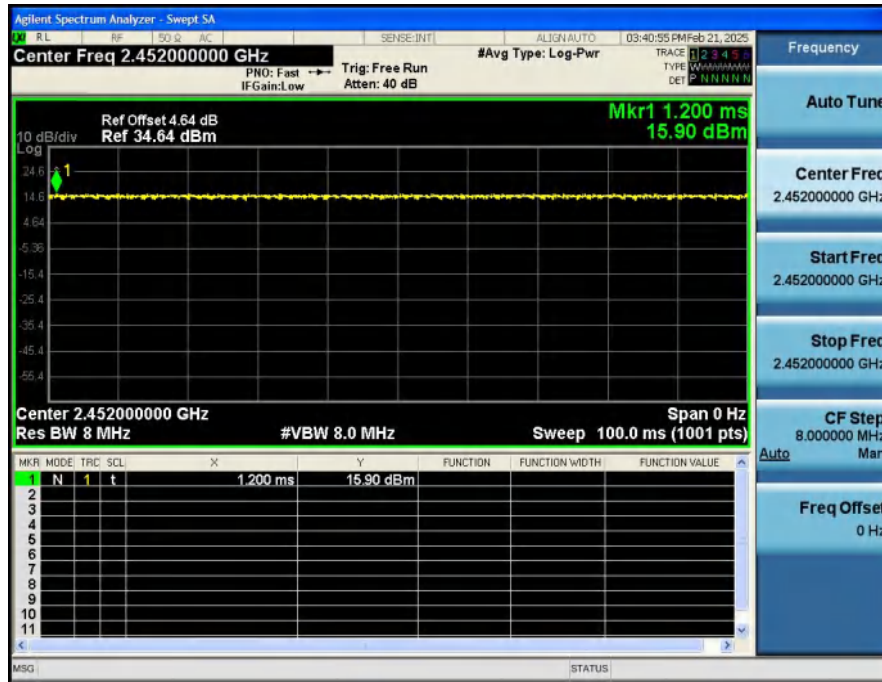
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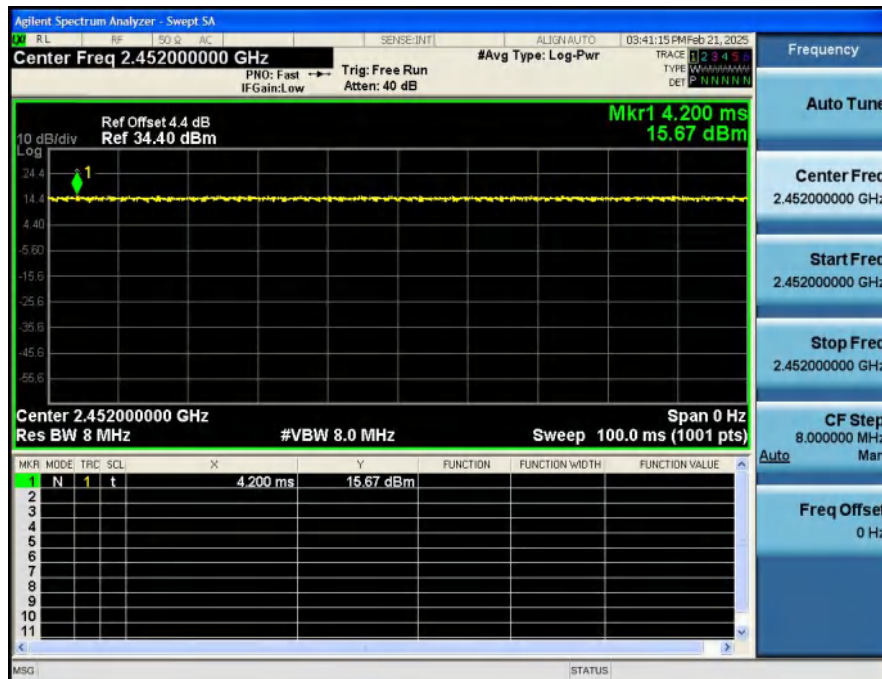
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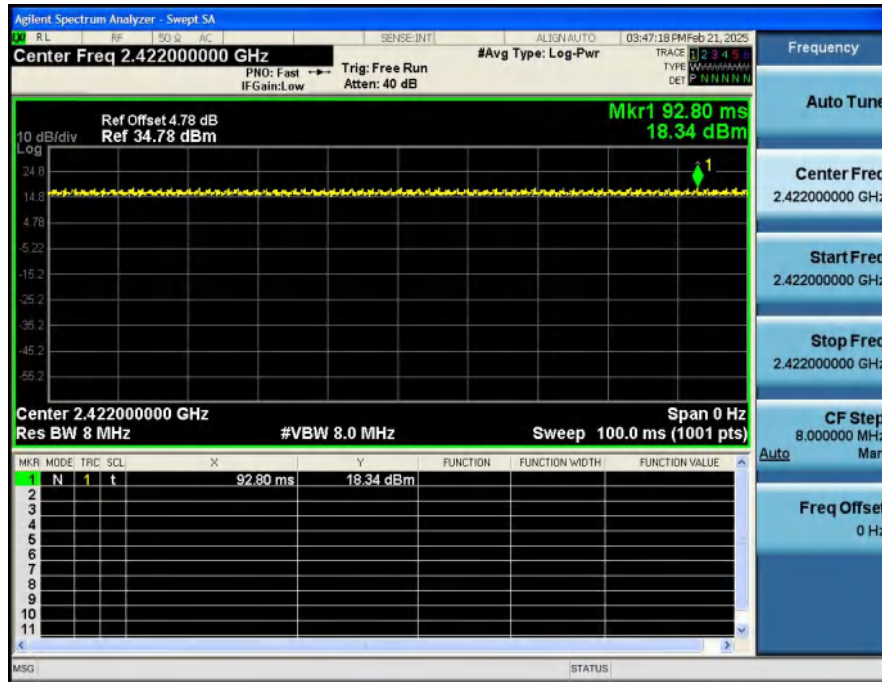
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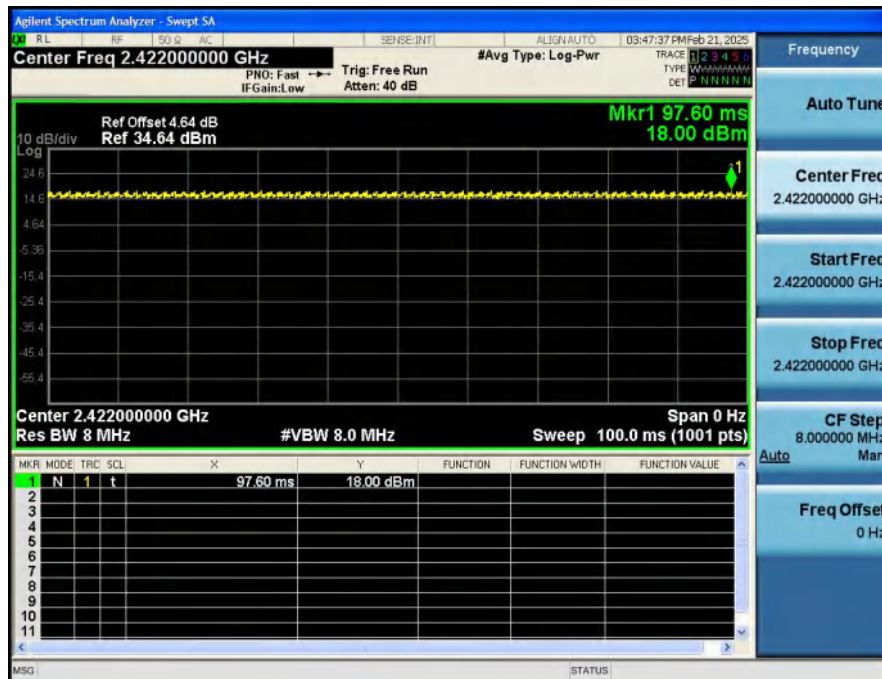
Duty_Cycle_NVNT_ANT2_802_11n(HT40)_2452



Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2422



Duty_Cycle_NVNT_ANT2_802_11ax(HE40)_2422

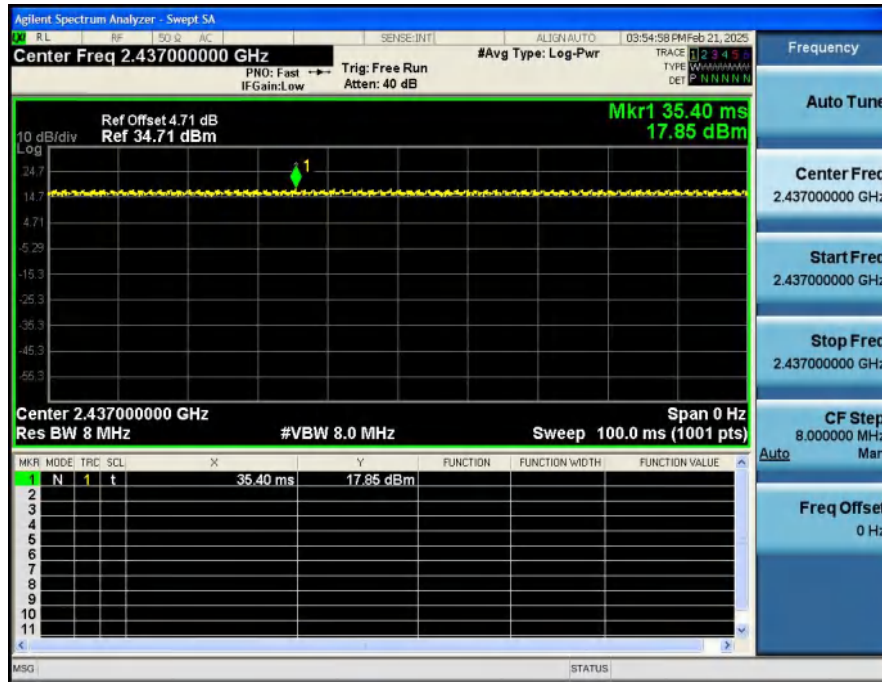


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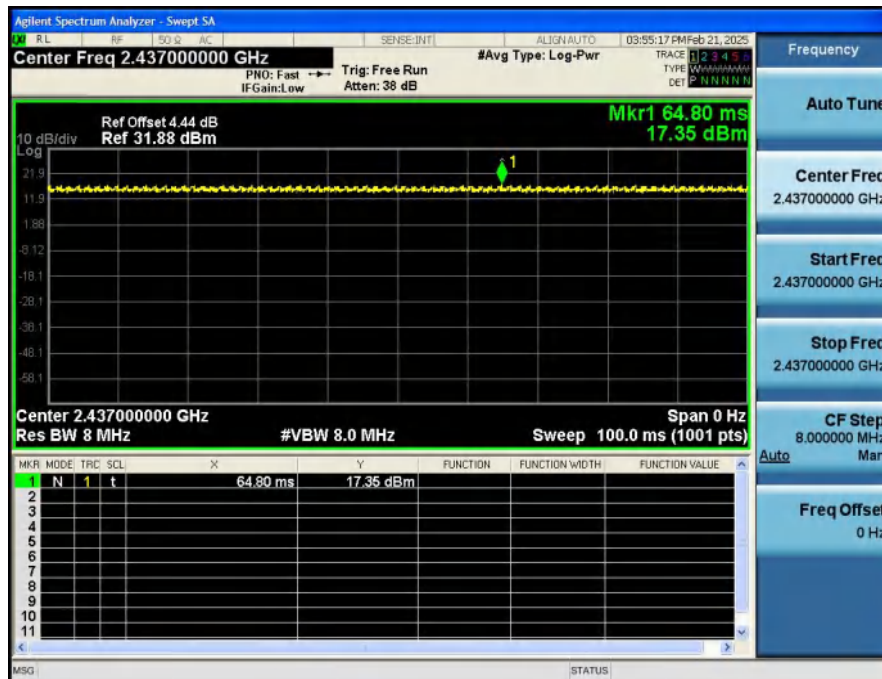
Shenzhen Anbotech Compliance Laboratory Limited

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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotech.com

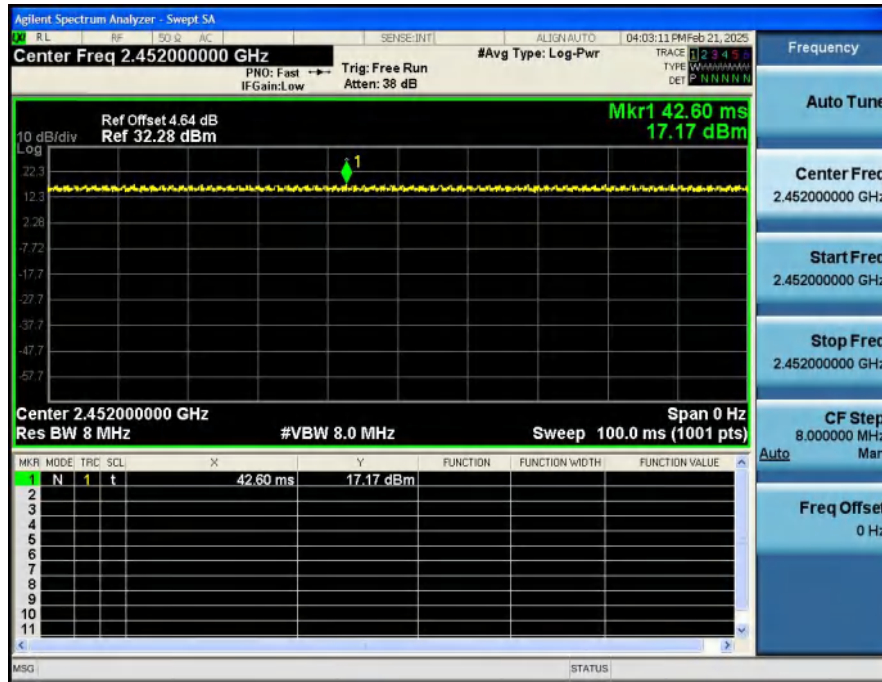
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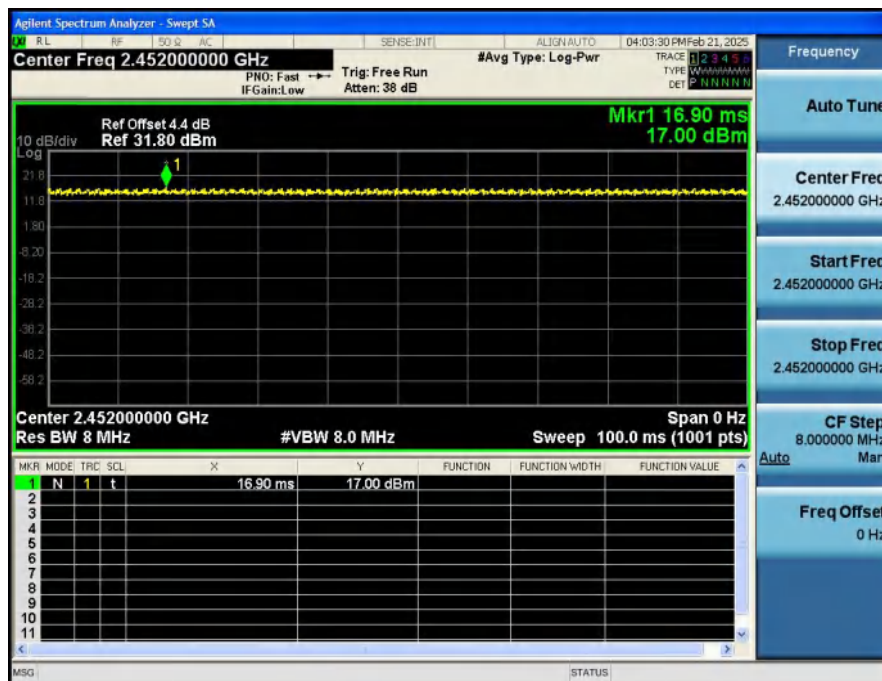
Duty_Cycle_NVNT_ANT2_802_11ax(HE40)_2437



Duty_Cycle_NVNT_ANT1_802_11ax(HE40)_2452



Duty_Cycle_NVNT_ANT2_802_11ax(HE40)_2452



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Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066440 Email: service@anbotech.com

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Appendix D: MAX. Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Detector	Conducted Power (dBm)	Duty factor (dB)	Total Power (dBm)	limit(dBm)	Result
NVNT	ANT1	802.11b	2412.00	RMS	13.80	0.00	13.80	30	Pass
NVNT	ANT2	802.11b	2412.00	RMS	12.84	0.00	12.84	30	Pass
NVNT	ANT1	802.11b	2437.00	RMS	13.41	0.00	13.41	30	Pass
NVNT	ANT2	802.11b	2437.00	RMS	12.74	0.00	12.74	30	Pass
NVNT	ANT1	802.11b	2462.00	RMS	12.99	0.00	12.99	30	Pass
NVNT	ANT2	802.11b	2462.00	RMS	12.52	0.00	12.52	30	Pass
NVNT	ANT1	802.11g	2412.00	RMS	13.38	0.00	13.38	30	Pass
NVNT	ANT2	802.11g	2412.00	RMS	12.53	0.00	12.53	30	Pass
NVNT	ANT1	802.11g	2437.00	RMS	13.12	0.00	13.12	30	Pass
NVNT	ANT2	802.11g	2437.00	RMS	12.22	0.00	12.22	30	Pass
NVNT	ANT1	802.11g	2462.00	RMS	12.94	0.00	12.94	30	Pass
NVNT	ANT2	802.11g	2462.00	RMS	12.15	0.00	12.15	30	Pass
NVNT	ANT1	802.11n(HT20)	2412.00	RMS	13.20	0.00	13.20	30	Pass
NVNT	ANT2	802.11n(HT20)	2412.00	RMS	12.42	0.00	12.42	30	Pass
NVNT	ANT1	802.11n(HT20)	2437.00	RMS	12.94	0.00	12.94	30	Pass
NVNT	ANT2	802.11n(HT20)	2437.00	RMS	12.06	0.00	12.06	30	Pass
NVNT	ANT1	802.11n(HT20)	2462.00	RMS	12.74	0.00	12.74	30	Pass
NVNT	ANT2	802.11n(HT20)	2462.00	RMS	11.98	0.00	11.98	30	Pass
NVNT	ANT1	802.11ax(HEW20)	2412.00	RMS	13.13	0.00	13.13	30	Pass
NVNT	ANT2	802.11ax(HEW20)	2412.00	RMS	12.32	0.00	12.32	30	Pass
NVNT	ANT1	802.11ax(HEW20)	2437.00	RMS	12.90	0.00	12.90	30	Pass
NVNT	ANT2	802.11ax(HEW20)	2437.00	RMS	12.09	0.00	12.09	30	Pass
NVNT	ANT1	802.11ax(HEW20)	2462.00	RMS	12.66	0.00	12.66	30	Pass
NVNT	ANT2	802.11ax(HEW20)	2462.00	RMS	11.98	0.00	11.98	30	Pass
NVNT	ANT1	802.11n(HT40)	2422.00	RMS	12.73	0.00	12.73	30	Pass
NVNT	ANT2	802.11n(HT40)	2422.00	RMS	12.52	0.00	12.52	30	Pass
NVNT	ANT1	802.11n(HT40)	2437.00	RMS	12.71	0.00	12.71	30	Pass
NVNT	ANT2	802.11n(HT40)	2437.00	RMS	12.16	0.00	12.16	30	Pass
NVNT	ANT1	802.11n(HT40)	2452.00	RMS	12.29	0.00	12.29	30	Pass
NVNT	ANT2	802.11n(HT40)	2452.00	RMS	11.85	0.00	11.85	30	Pass
NVNT	ANT1	802.11ax(HEW40)	2422.00	RMS	12.78	0.00	12.78	30	Pass
NVNT	ANT2	802.11ax(HEW40)	2422.00	RMS	12.56	0.00	12.56	30	Pass
NVNT	ANT1	802.11ax(HEW40)	2437.00	RMS	12.67	0.00	12.67	30	Pass
NVNT	ANT2	802.11ax(HEW40)	2437.00	RMS	12.15	0.00	12.15	30	Pass
NVNT	ANT1	802.11ax(HEW40)	2452.00	RMS	12.21	0.00	12.21	30	Pass
NVNT	ANT2	802.11ax(HEW40)	2452.00	RMS	11.83	0.00	11.83	30	Pass

Note: 1.The cable loss are compensated in the graph.

Condition	Antenna	Mode	Frequency (MHz)	MIMO_Conducted_Power (dBm)	Limit(dBm)	Result
NVNT	MIMO_TX	802.11n(HT20)	2412.00	15.84	28.32	Pass
NVNT	MIMO_TX	802.11n(HT20)	2437.00	15.53	28.32	Pass
NVNT	MIMO_TX	802.11n(HT20)	2462.00	15.39	28.32	Pass
NVNT	MIMO_TX	802.11ax(HEW20)	2412.00	15.76	28.32	Pass
NVNT	MIMO_TX	802.11ax(HEW20)	2437.00	15.53	28.32	Pass
NVNT	MIMO_TX	802.11ax(HEW20)	2462.00	15.34	28.32	Pass
NVNT	MIMO_TX	802.11n(HT40)	2422.00	15.64	28.32	Pass
NVNT	MIMO_TX	802.11n(HT40)	2437.00	15.46	28.32	Pass
NVNT	MIMO_TX	802.11n(HT40)	2452.00	15.09	28.32	Pass
NVNT	MIMO_TX	802.11ax(HEW40)	2422.00	15.68	28.32	Pass
NVNT	MIMO_TX	802.11ax(HEW40)	2437.00	15.43	28.32	Pass
NVNT	MIMO_TX	802.11ax(HEW40)	2452.00	15.03	28.32	Pass

Note:

1. As Directional gain = $10 \log[(10G^{1/20} + 10G^{2/20})^2 / N_{ANT}]$ dBi= 7.6 > 6dBi, so limit=30dBm-(7.68-6)=28.32dBm
2. MIMO= $10 \cdot \log((10^{ANT1/10}) + 10^{(ANT2/10)})$

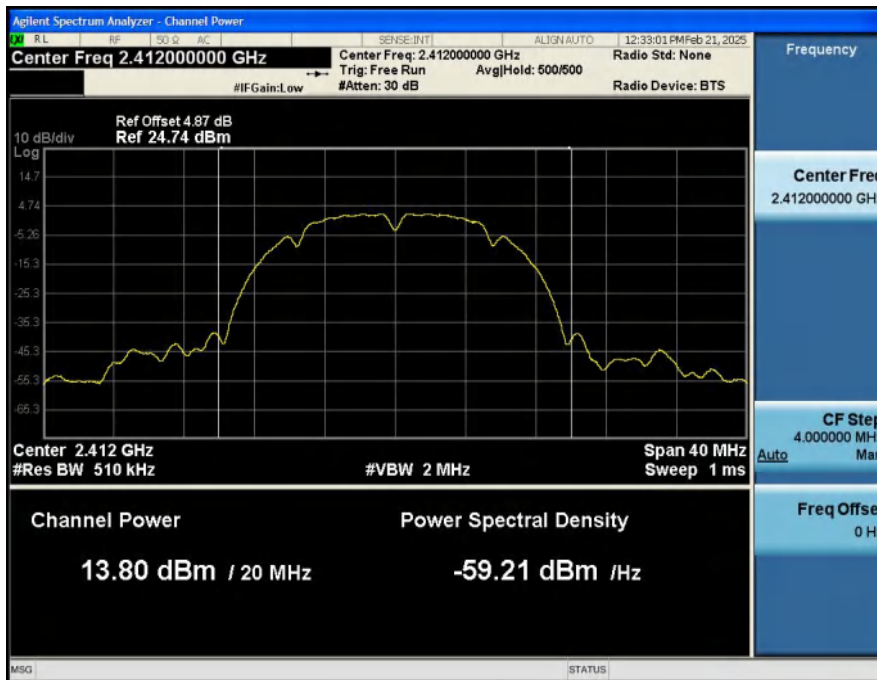
Shenzhen Anbotech Compliance Laboratory Limited

Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park,
Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)0755-26066440 Email:service@anbotech.com

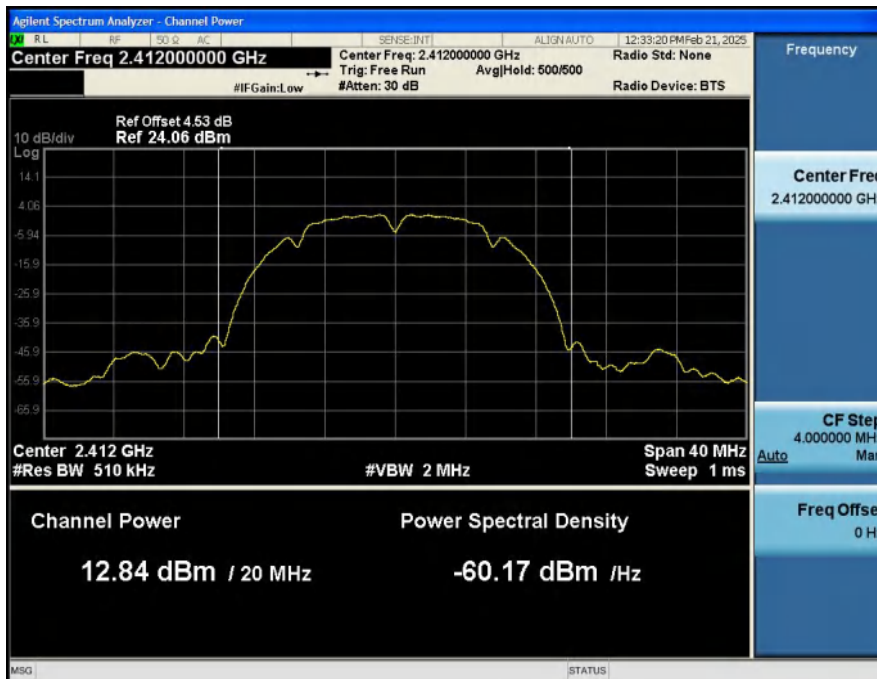


Hotline
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www.anbotech.com

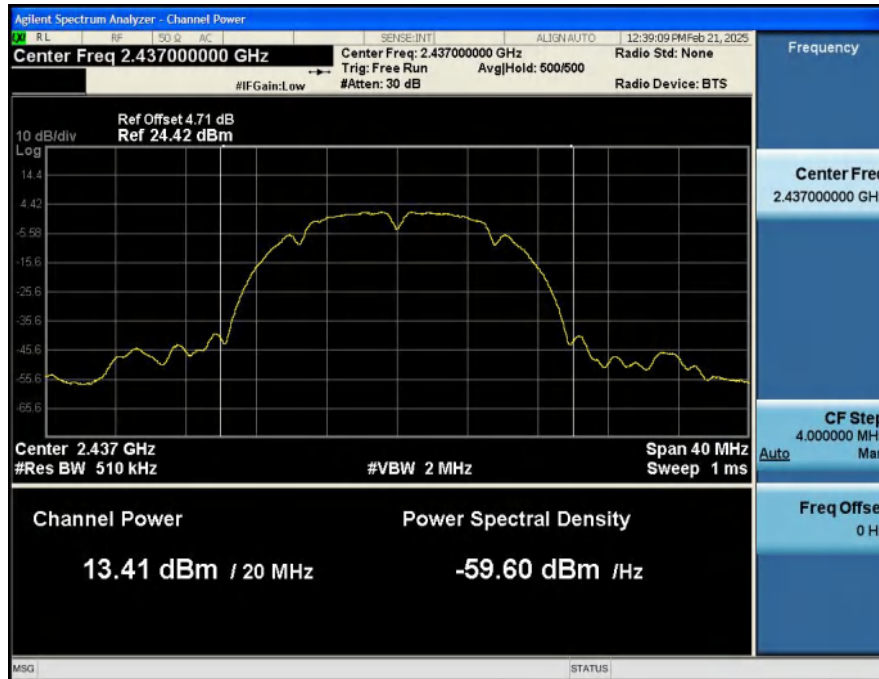
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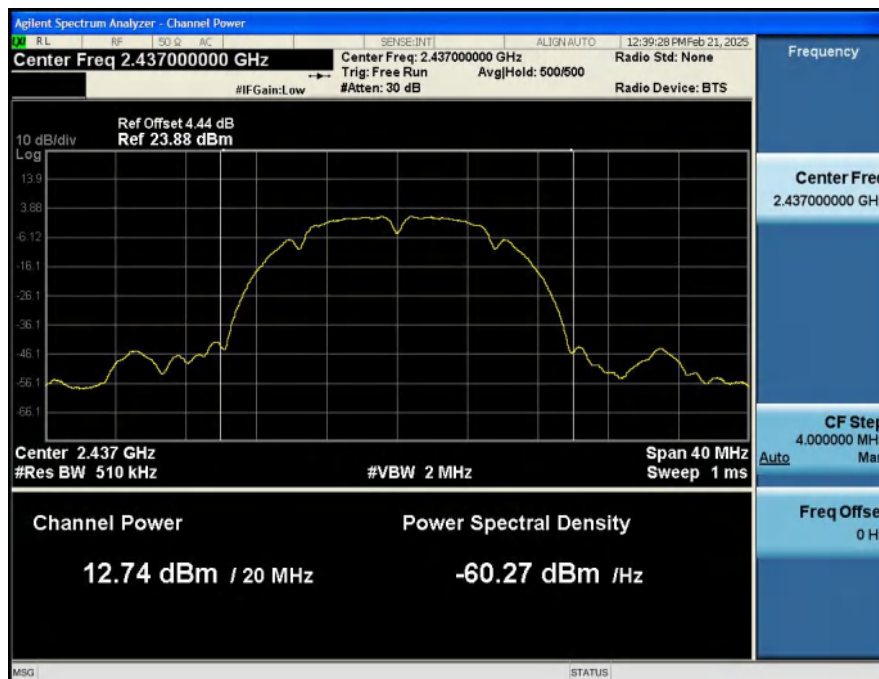
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MAX__Output_Power_NVNT_ANT1_802_11b_2437



MAX__Output_Power_NVNT_ANT2_802_11b_2437



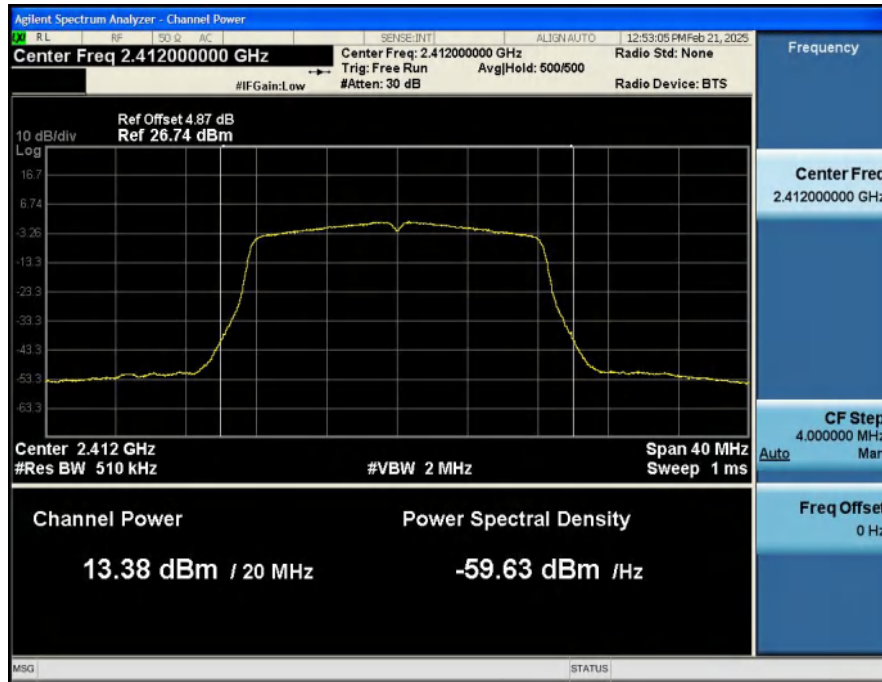
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MAX__Output_Power_NVNT_ANT1_802_11g_2412



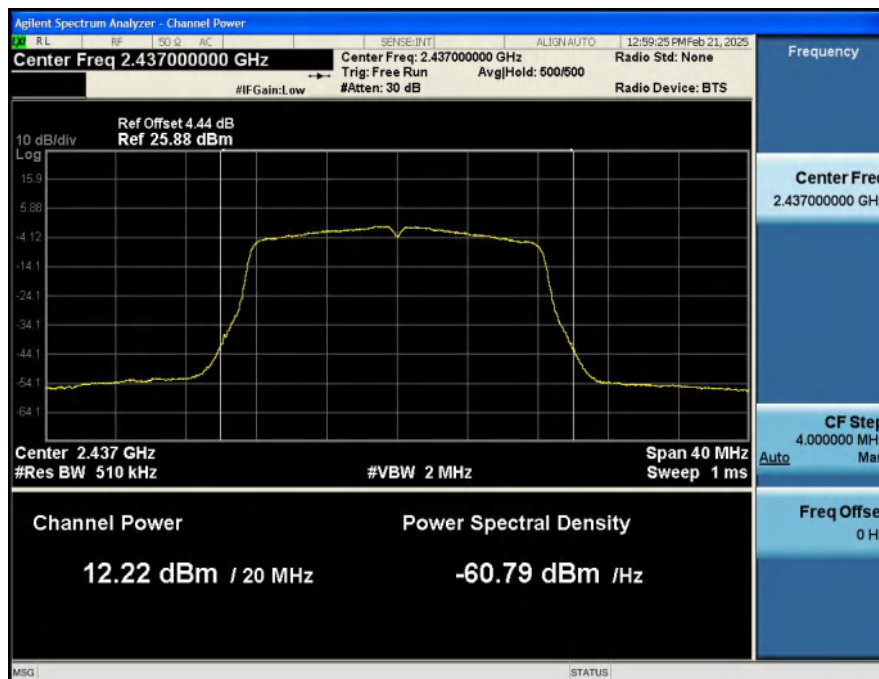
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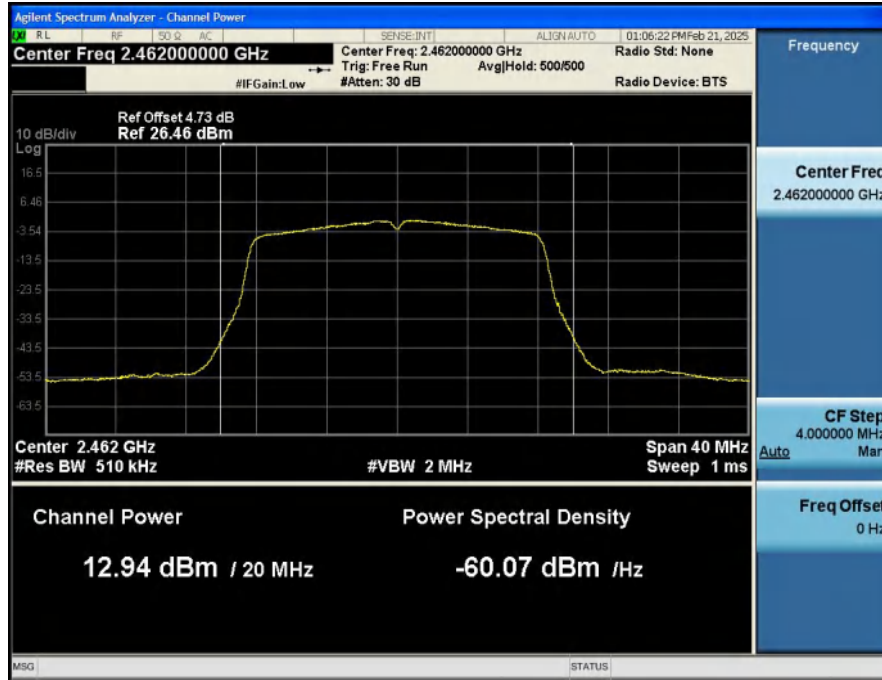
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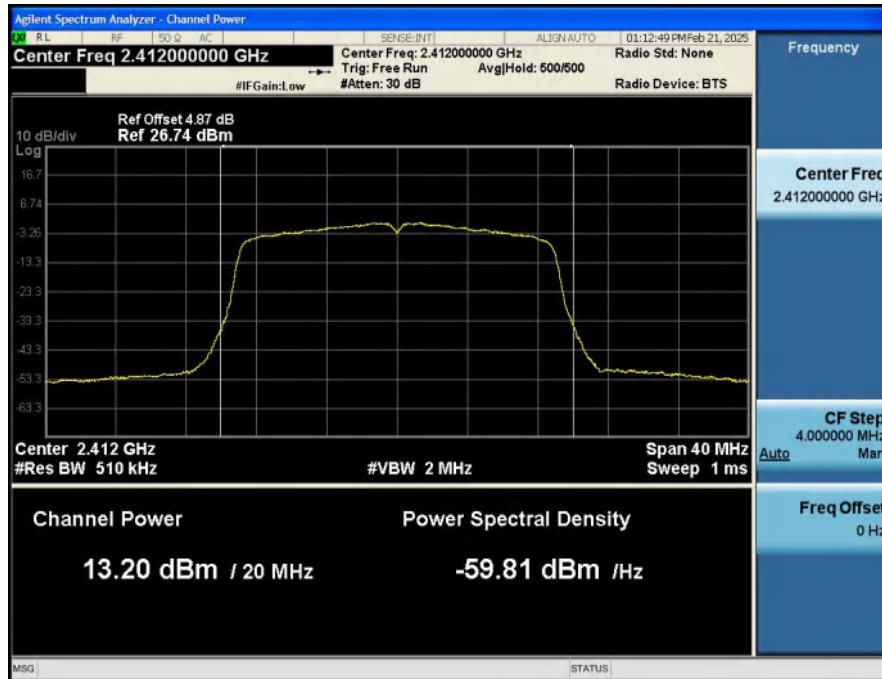
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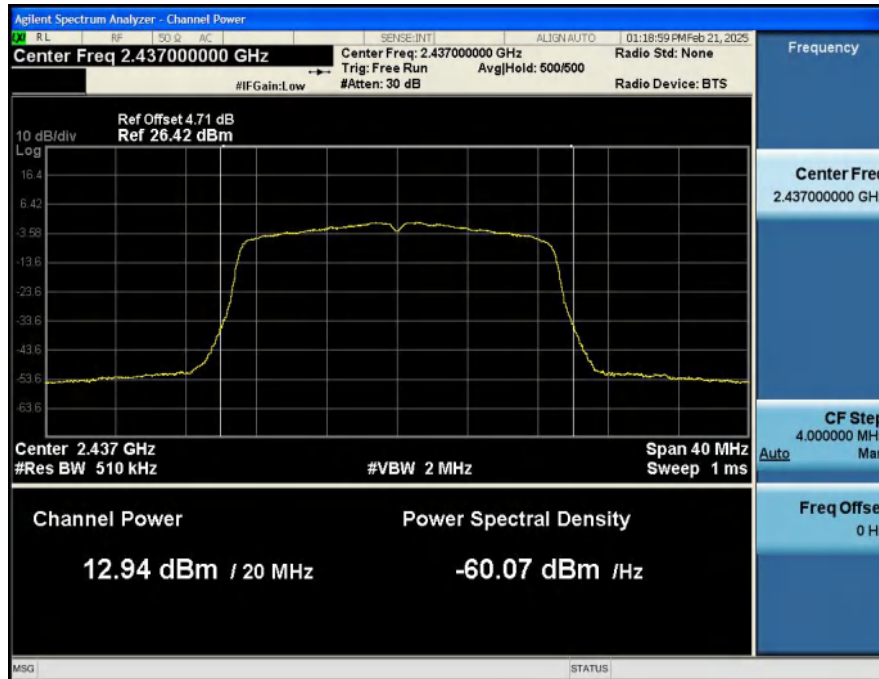
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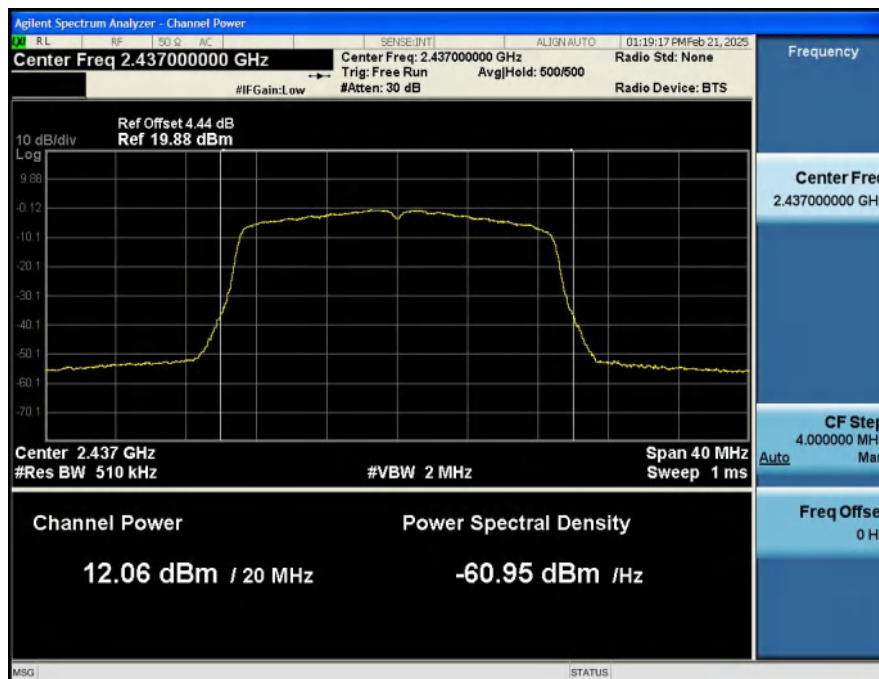
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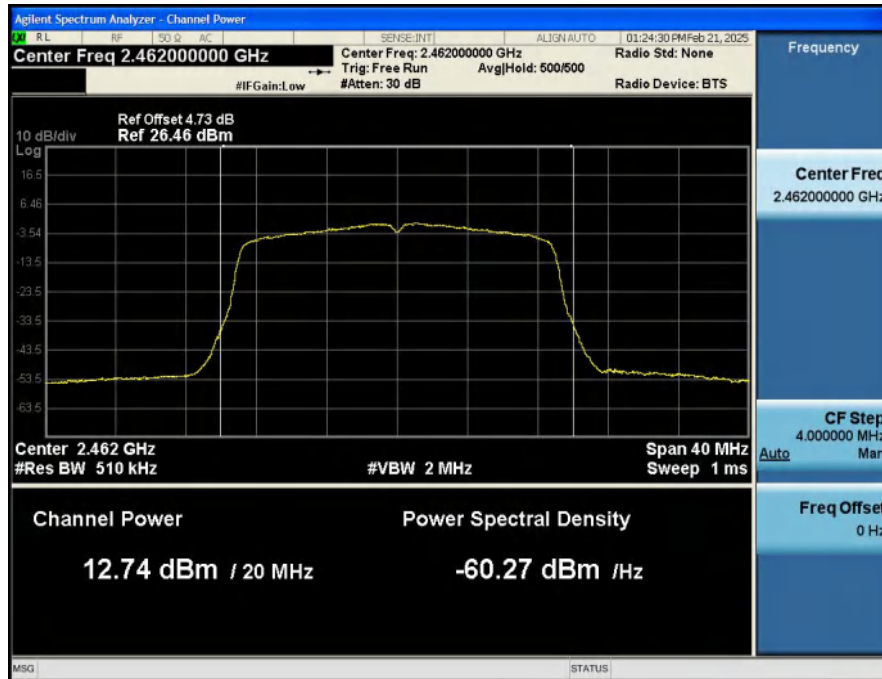
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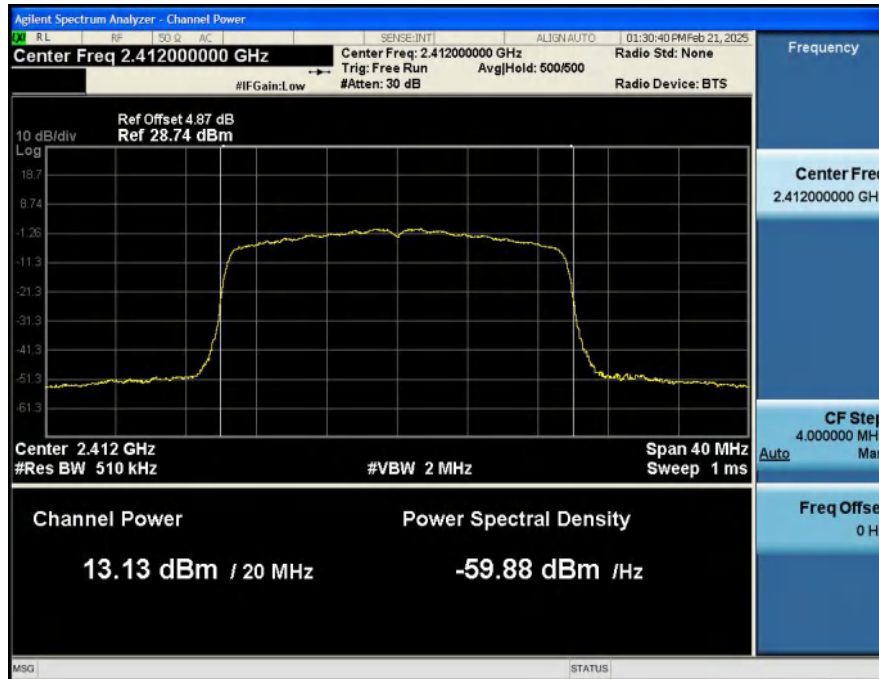
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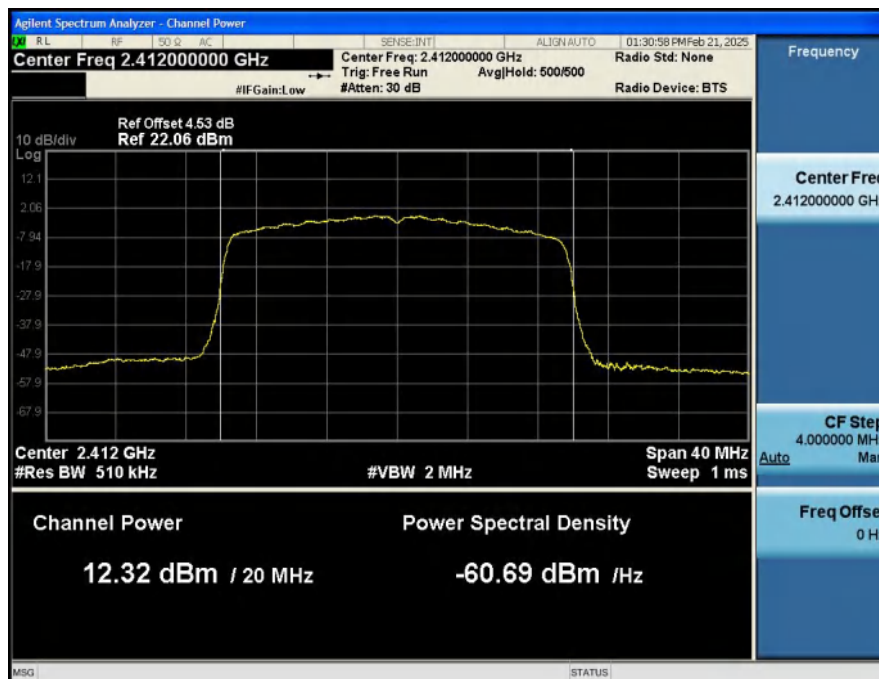
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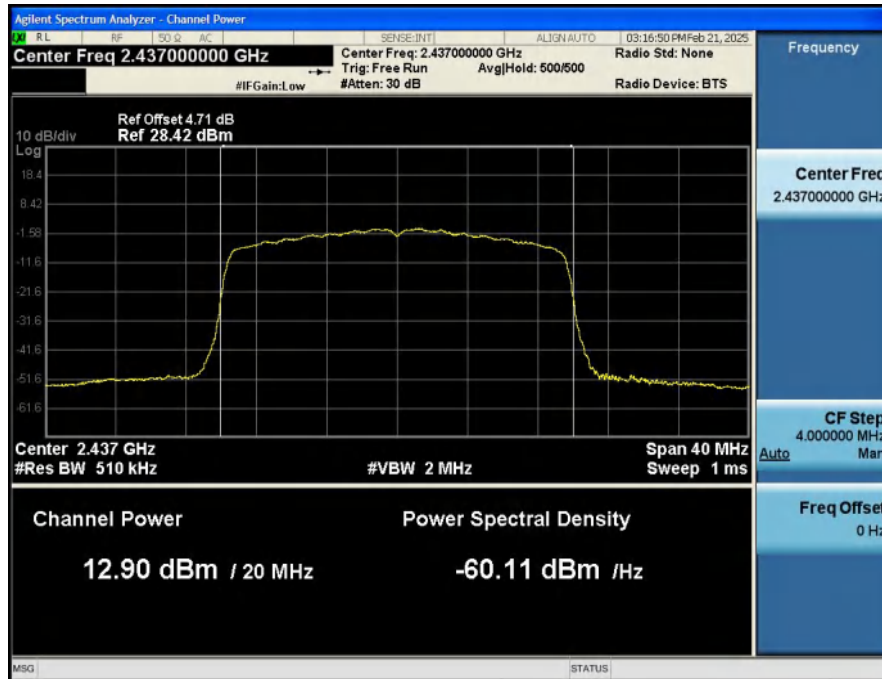
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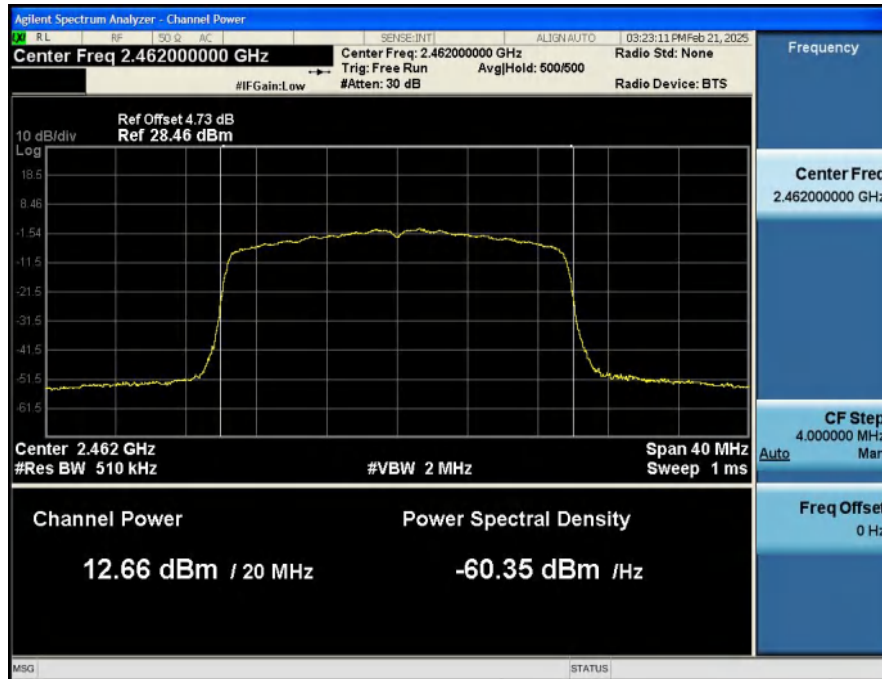
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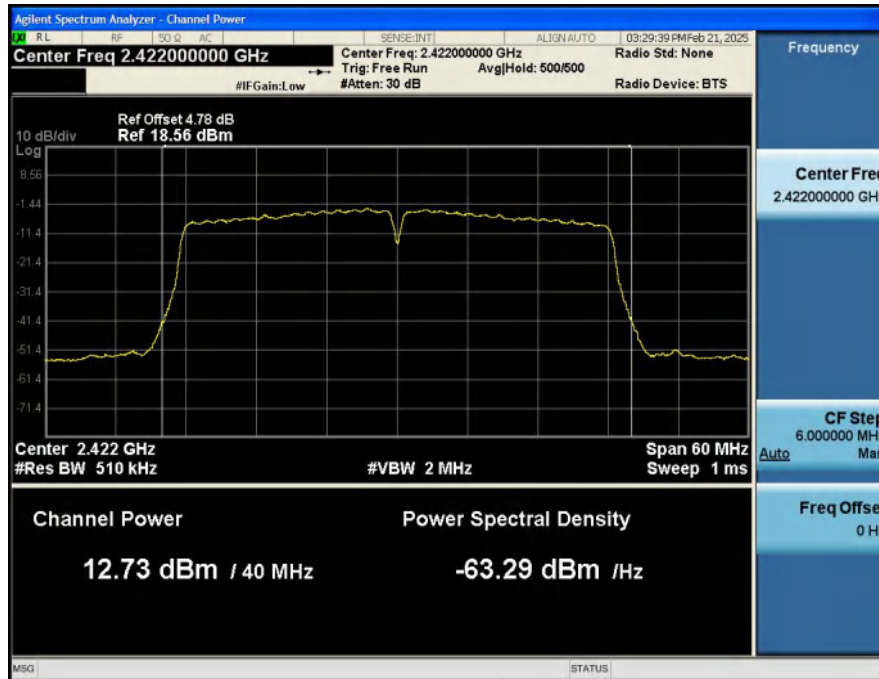
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MAX__Output_Power_NVNT_ANT2_802_11ax(HE20)_2462



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT2_802_11n(HT40)_2422



MAX__Output_Power_NVNT_ANT1_802_11n(HT40)_2437