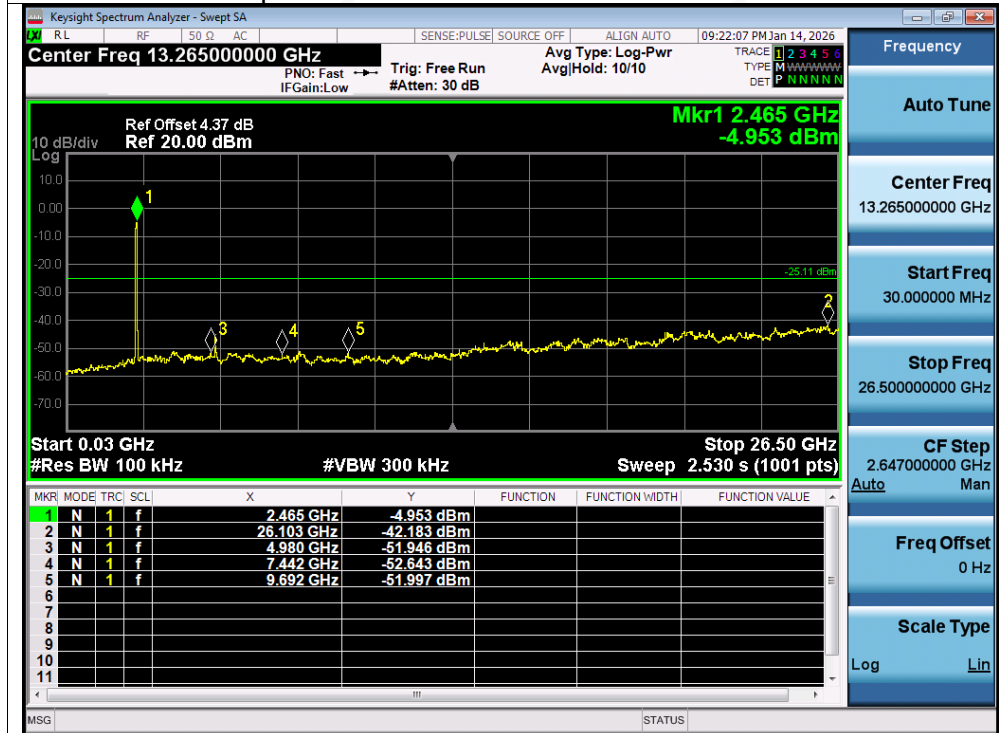




Tx. Spurious NVNT n40 2452MHz AntA Ref



Tx. Spurious NVNT n40 2452MHz AntA Emission

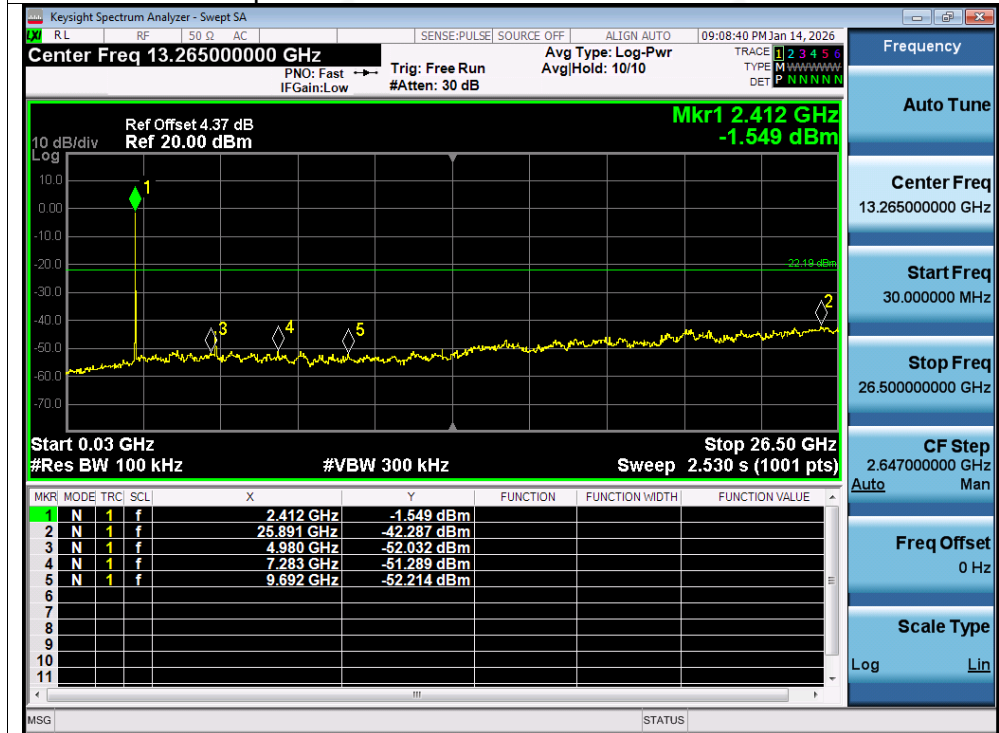




Tx. Spurious NVNT ax20 2412MHz AntA Ref



Tx. Spurious NVNT ax20 2412MHz AntA Emission

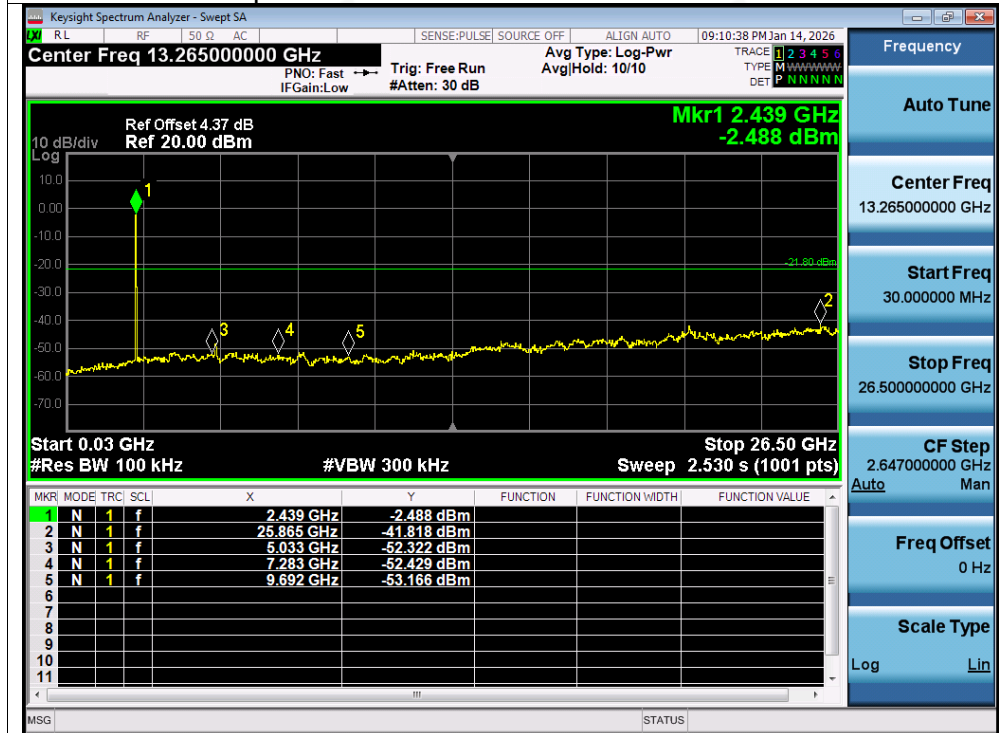




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Tx. Spurious NVNT ax20 2437MHz AntA Emission

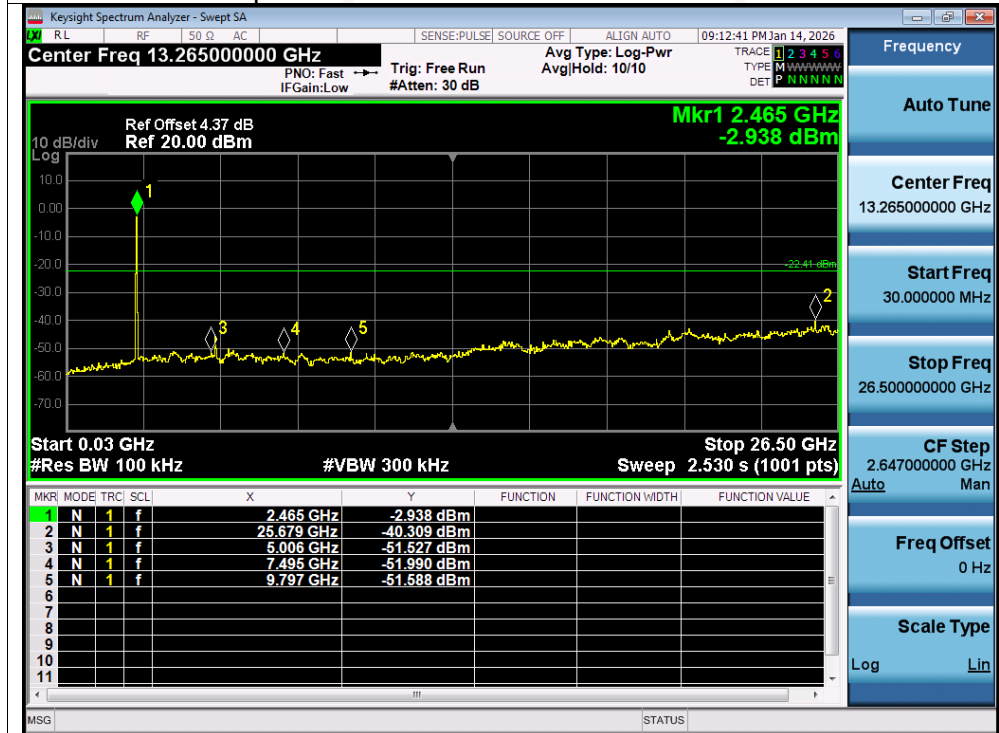




Tx. Spurious NVNT ax20 2462MHz AntA Ref



Tx. Spurious NVNT ax20 2462MHz AntA Emission

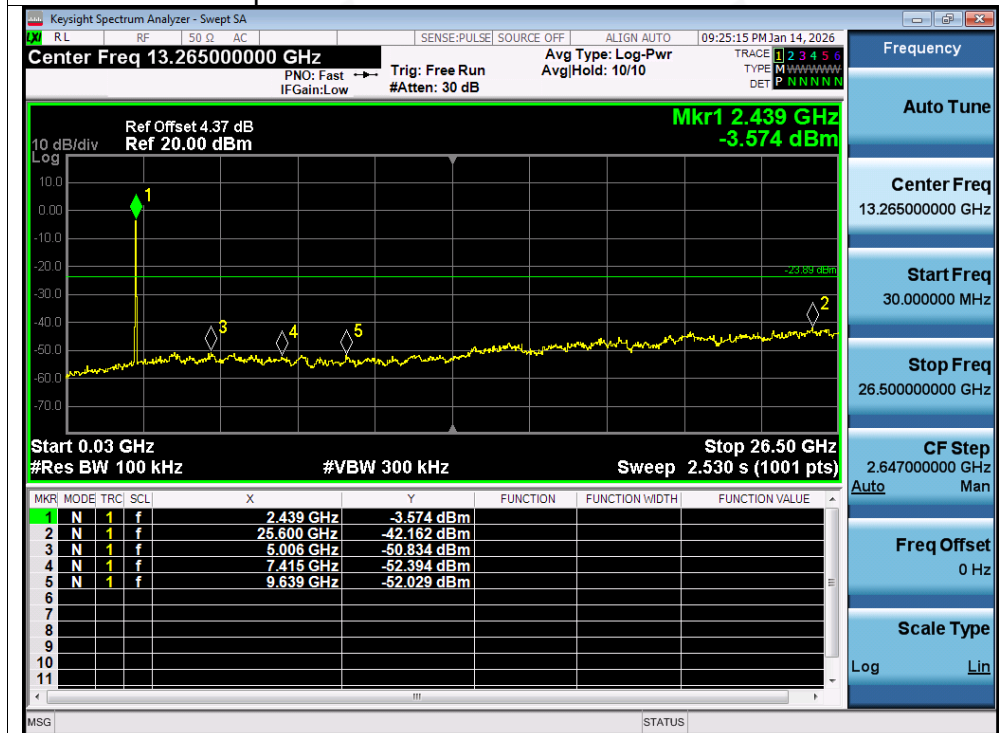




Tx. Spurious NVNT ax40 2422MHz AntA Ref



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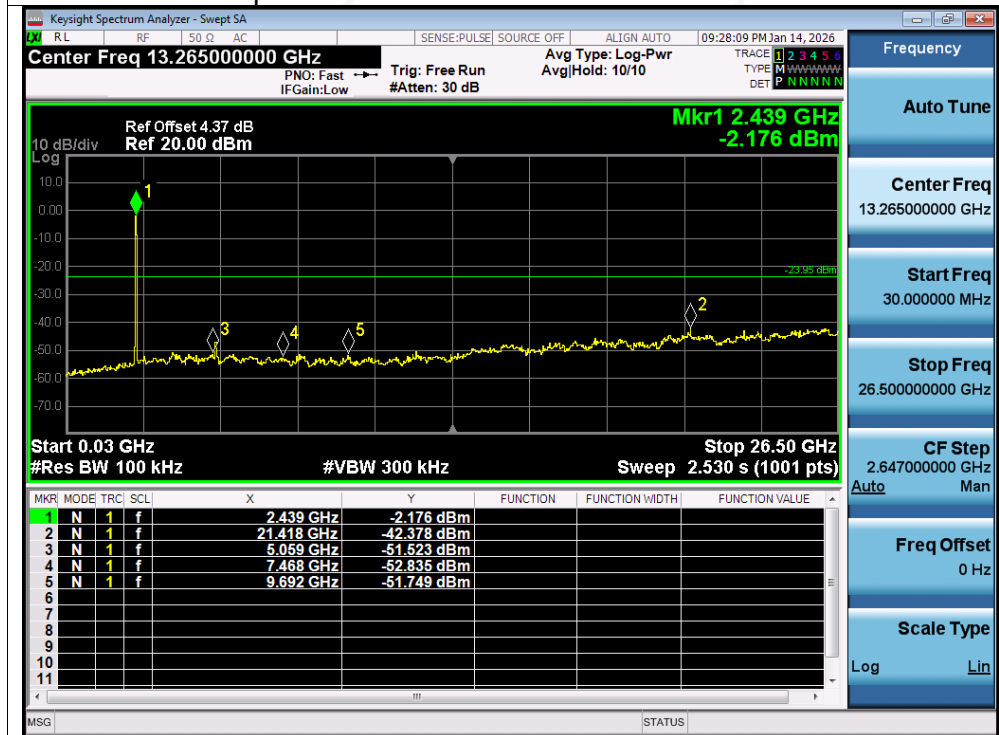




Tx. Spurious NVNT ax40 2437MHz AntA Ref



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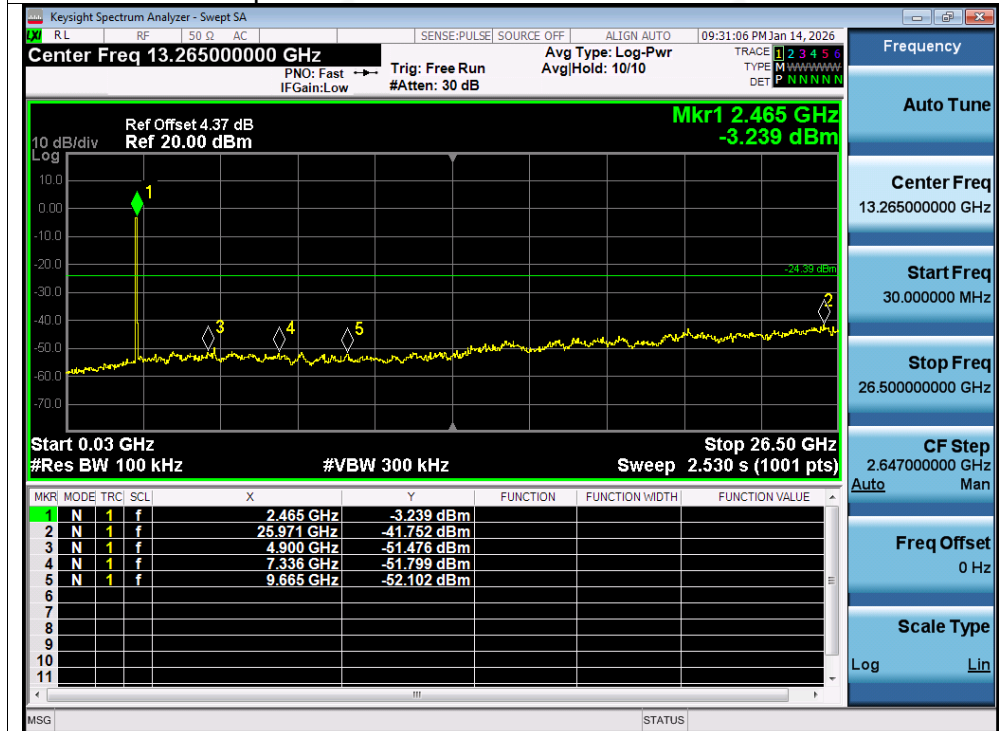




Tx. Spurious NVNT ax40 2452MHz AntA Ref



Tx. Spurious NVNT ax40 2452MHz AntA Emission





Antenna B

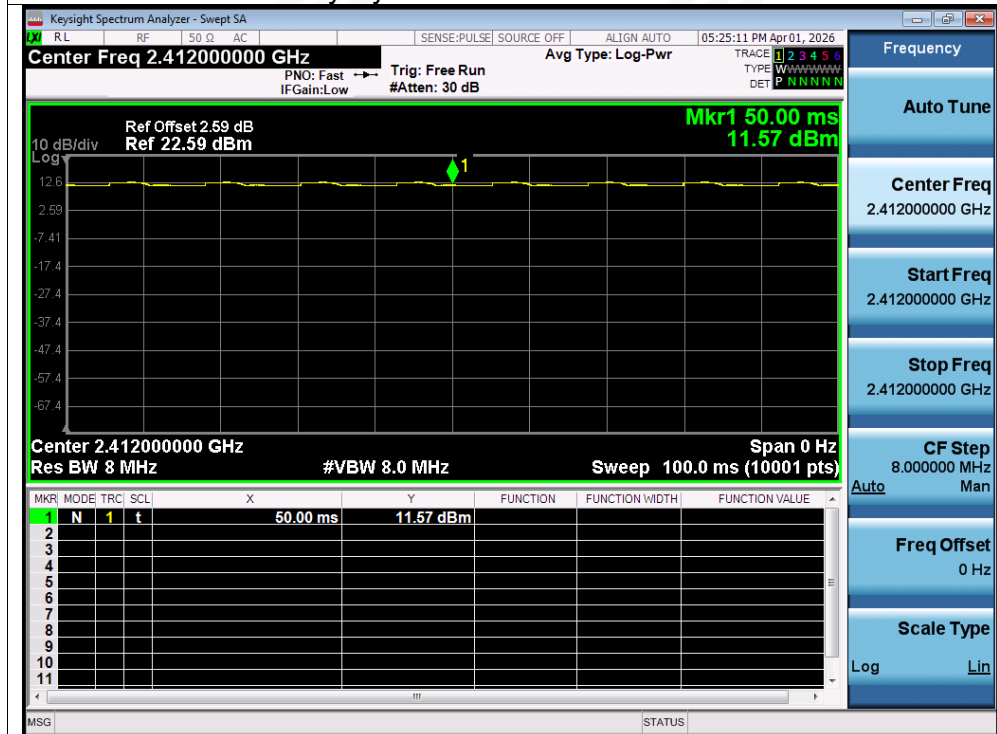
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	AntB	100	0
NVNT	g	2412	AntB	100	0
NVNT	n20	2412	AntB	100	0
NVNT	n40	2422	AntB	100	0
NVNT	ax20	2412	AntB	100	0
NVNT	ax40	2422	AntB	100	0

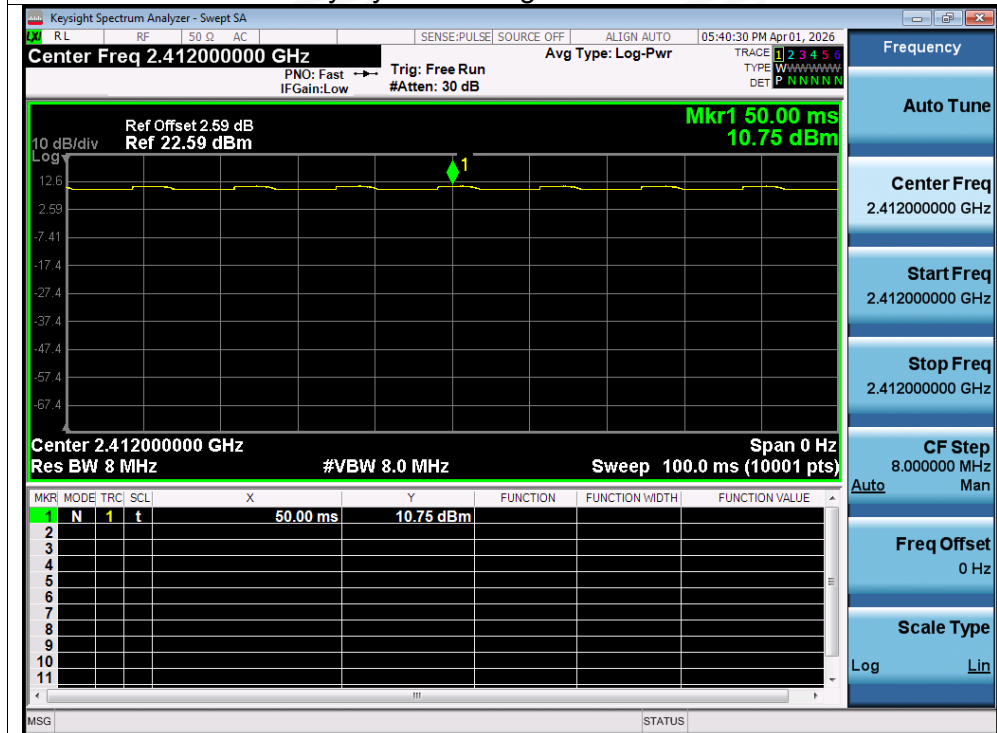


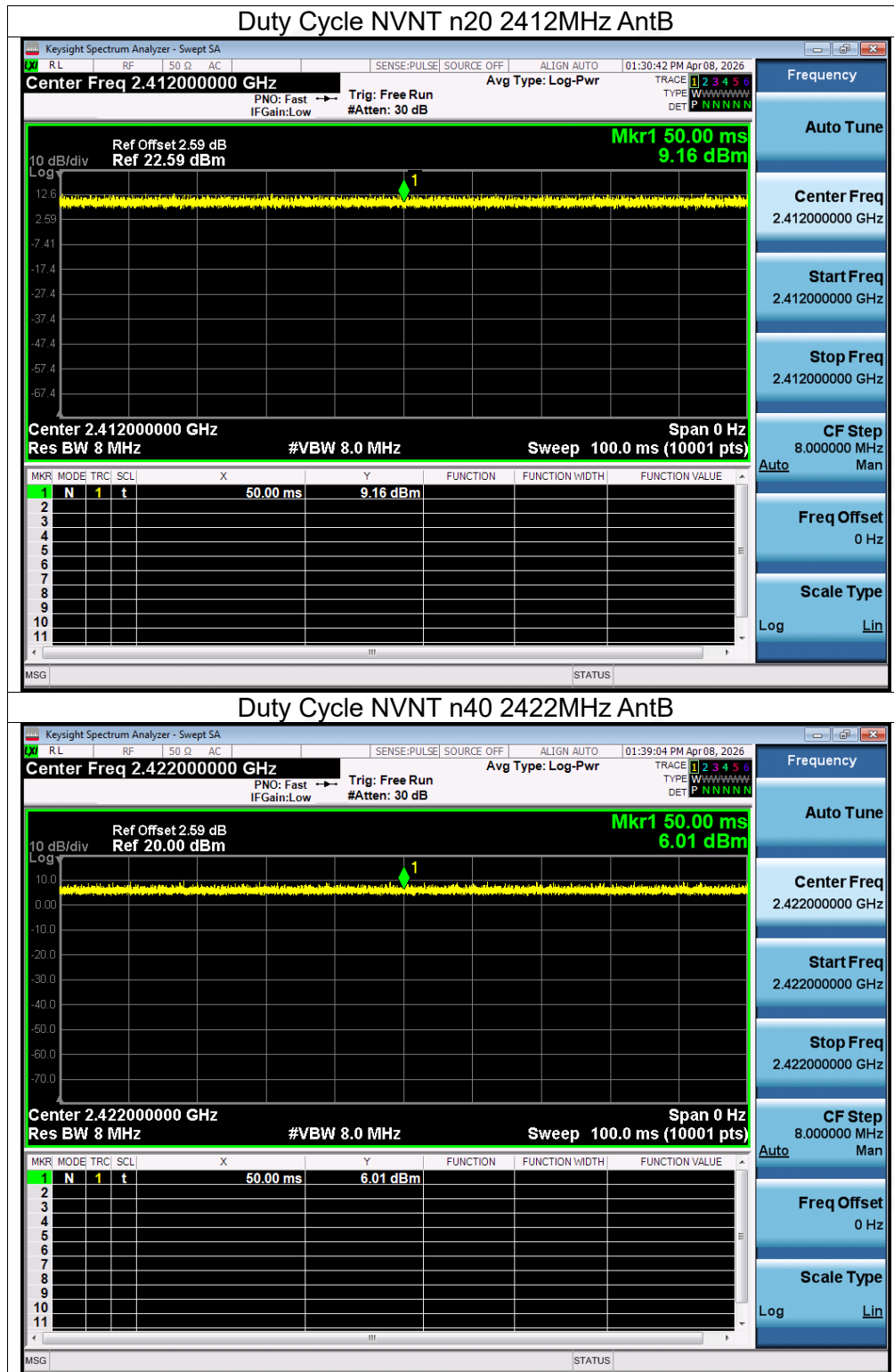
Test Graphs

Duty Cycle NVNT b 2412MHz AntB



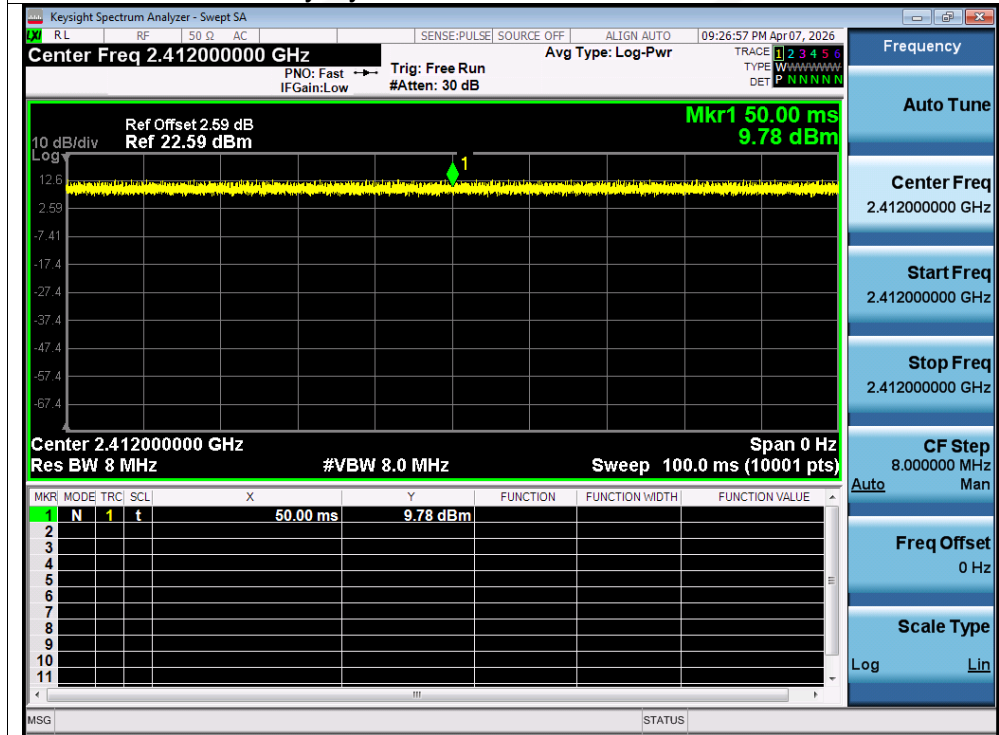
Duty Cycle NVNT g 2412MHz AntB



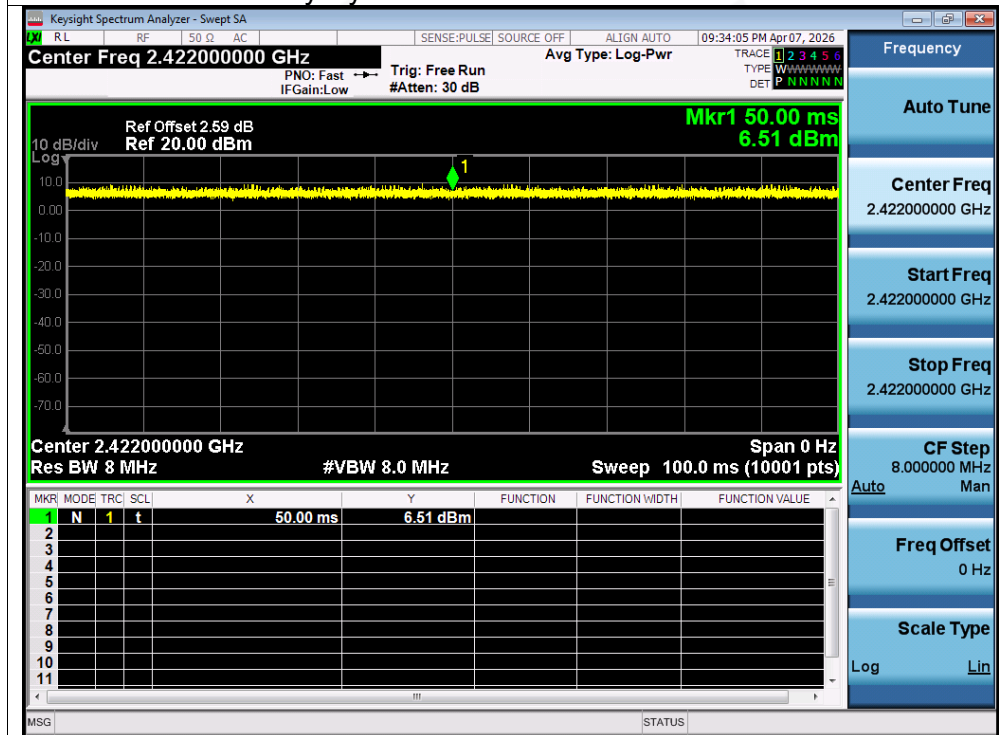




Duty Cycle NVNT ax20 2412MHz AntB



Duty Cycle NVNT ax40 2422MHz AntB





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	AntB	10.6	30	Pass
NVNT	b	2437	AntB	11.09	30	Pass
NVNT	b	2462	AntB	10.08	30	Pass
NVNT	g	2412	AntB	10.4	30	Pass
NVNT	g	2437	AntB	10.49	30	Pass
NVNT	g	2462	AntB	9.65	30	Pass
NVNT	n20	2412	AntB	9.28	30	Pass
NVNT	n20	2437	AntB	9.46	30	Pass
NVNT	n20	2462	AntB	8.54	30	Pass
NVNT	n40	2422	AntB	7.75	30	Pass
NVNT	n40	2437	AntB	7.58	30	Pass
NVNT	n40	2452	AntB	6.63	30	Pass
NVNT	ax20	2412	AntB	9.1	30	Pass
NVNT	ax20	2437	AntB	9.53	30	Pass
NVNT	ax20	2462	AntB	8.31	30	Pass
NVNT	ax40	2422	AntB	7.59	30	Pass
NVNT	ax40	2437	AntB	7.48	30	Pass
NVNT	ax40	2452	AntB	6.75	30	Pass

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)				Verdict
			ANT A	ANT B	Total	Limit	
NVNT	b	2412	12.33	10.6	/	30	Pass
NVNT	b	2437	12.46	11.09	/	30	Pass
NVNT	b	2462	11.77	10.08	/	30	Pass
NVNT	g	2412	11.34	10.4	/	30	Pass
NVNT	g	2437	11.82	10.49	/	30	Pass
NVNT	g	2462	11.05	9.65	/	30	Pass
NVNT	n20	2412	10.52	9.28	12.95	30	Pass
NVNT	n20	2437	10.74	9.46	13.16	30	Pass
NVNT	n20	2462	9.87	8.54	12.27	30	Pass
NVNT	n40	2422	9.53	7.75	11.74	30	Pass
NVNT	n40	2437	9.47	7.58	11.64	30	Pass
NVNT	n40	2452	8.87	6.63	10.90	30	Pass
NVNT	ax20	2412	10.35	9.1	12.78	30	Pass
NVNT	ax20	2437	10.55	9.53	13.08	30	Pass
NVNT	ax20	2462	9.84	8.31	12.15	30	Pass
NVNT	ax40	2422	8.7	7.59	11.19	30	Pass
NVNT	ax40	2437	8.82	7.48	11.21	30	Pass
NVNT	ax40	2452	8.11	6.75	10.49	30	Pass

Note:

Antenna Gain=0.7 dBi.

Directional gain = GANT + 10 log(NANT) dBi=0.7+10log(2)=3.71dBi



-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	AntB	8.157	0.5	Pass
		2437		8.154	0.5	Pass
		2462		8.155	0.5	Pass
	g	2412		16.33	0.5	Pass
		2437		16.44	0.5	Pass
		2462		16.402	0.5	Pass
	n20	2412		17.32	0.5	Pass
		2437		17.709	0.5	Pass
		2462		17.697	0.5	Pass
	n40	2422		35.472	0.5	Pass
		2437		35.703	0.5	Pass
		2452		35.774	0.5	Pass
	ax20	2412		18.955	0.5	Pass
		2437		19.133	0.5	Pass
		2462		18.901	0.5	Pass
	ax40	2422		36.634	0.5	Pass
		2437		36.657	0.5	Pass
		2452		37.649	0.5	Pass



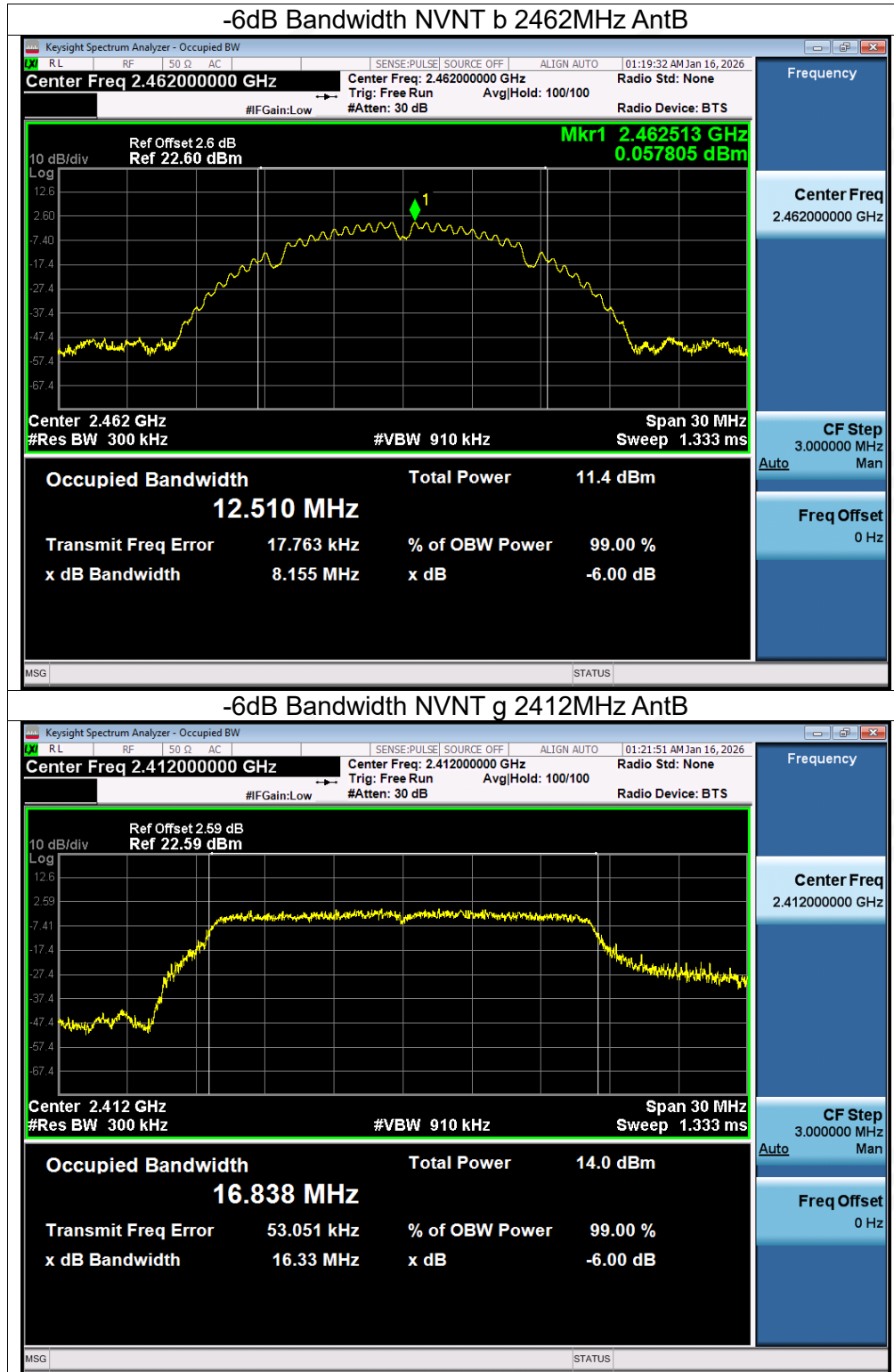
Test Graphs

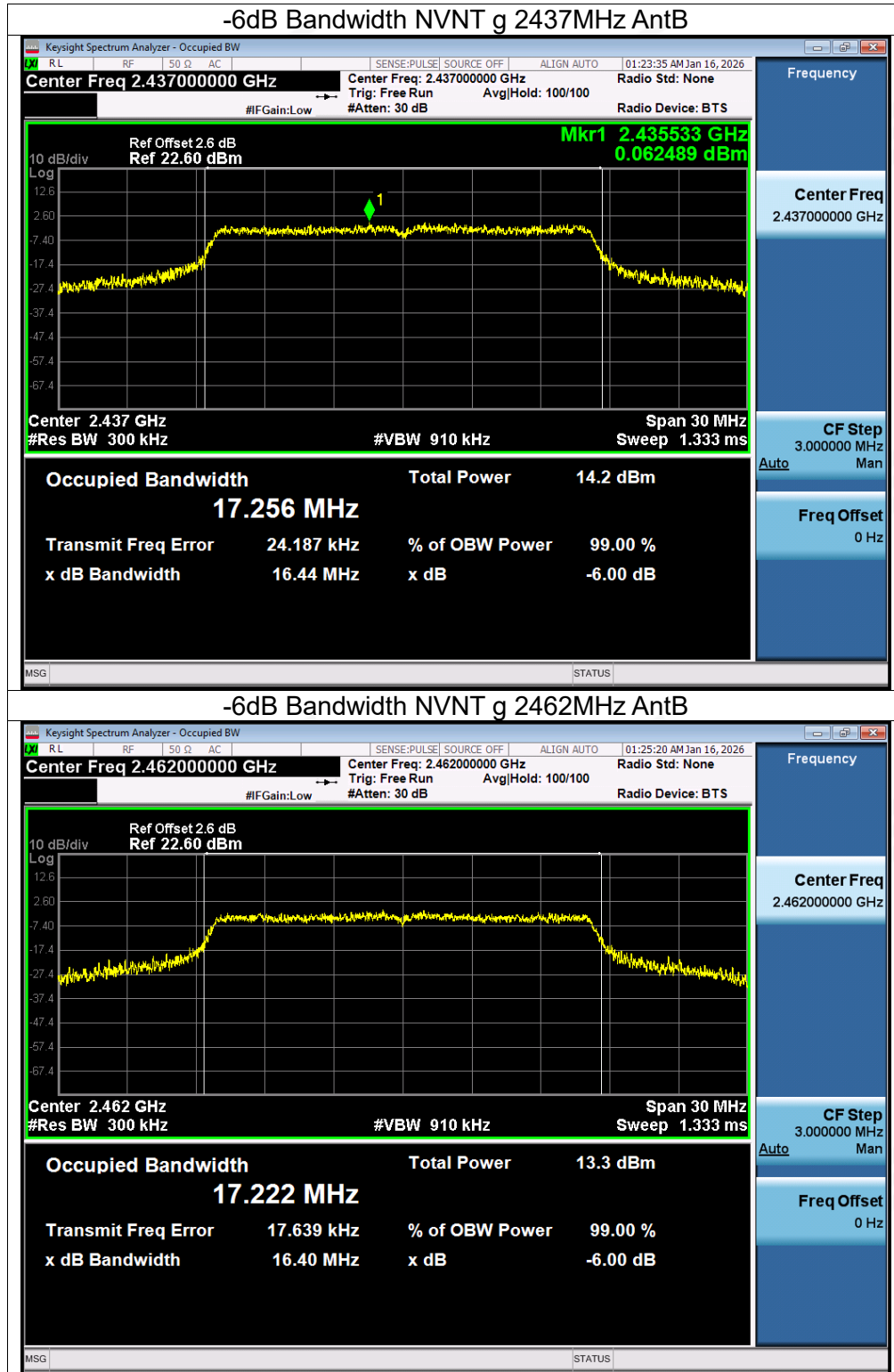
-6dB Bandwidth NVNT b 2412MHz AntB

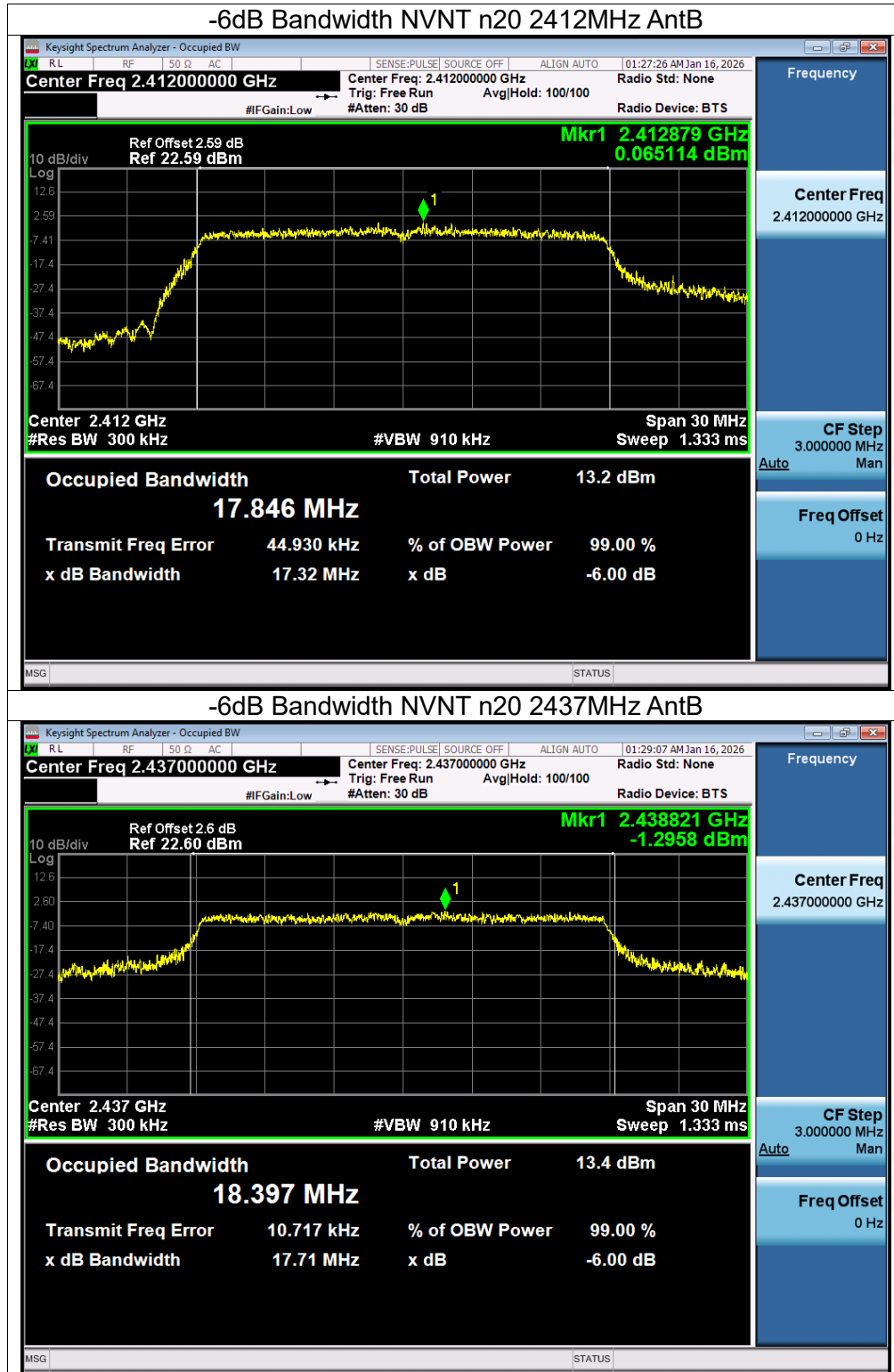


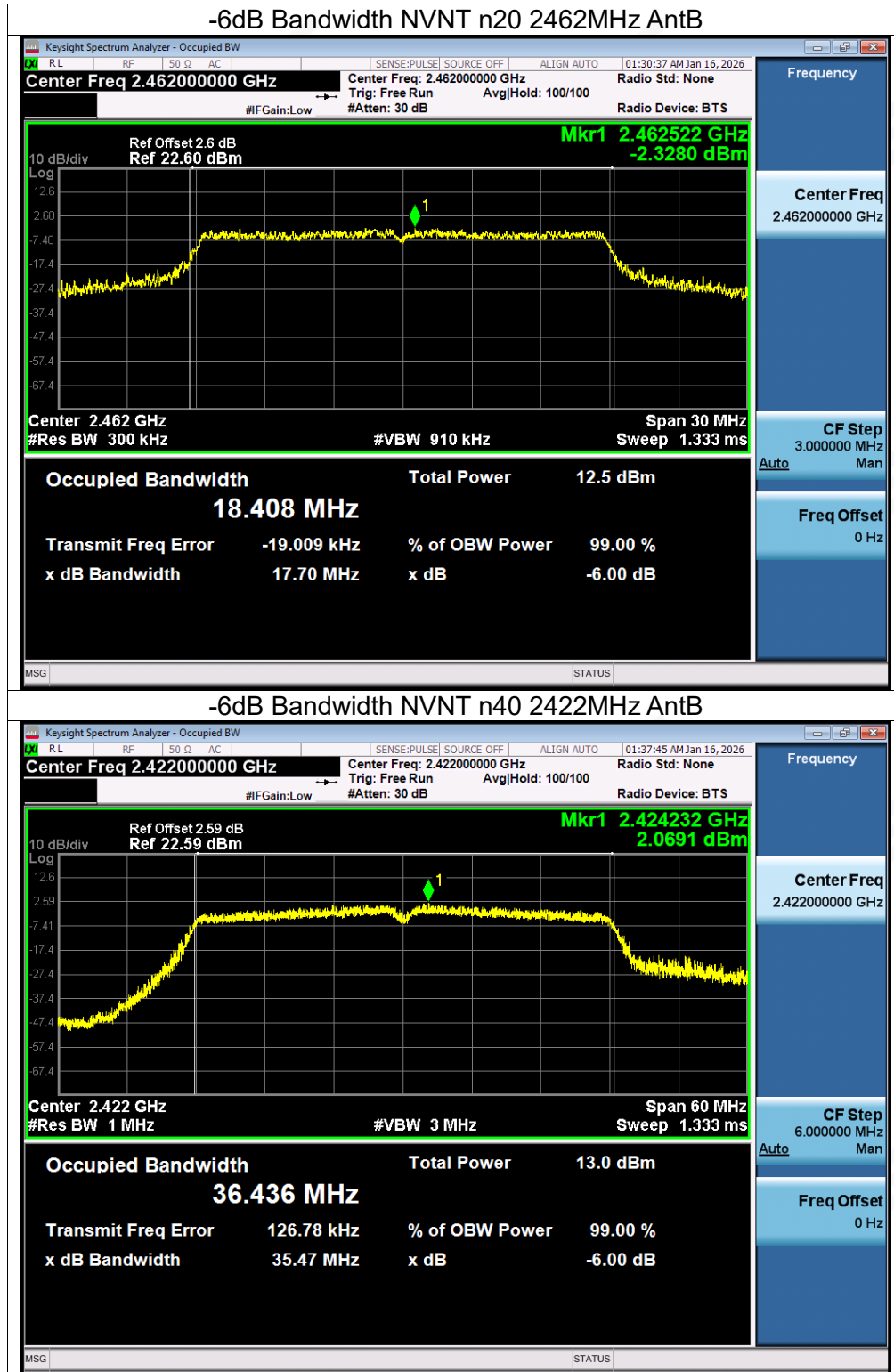
-6dB Bandwidth NVNT b 2437MHz AntB

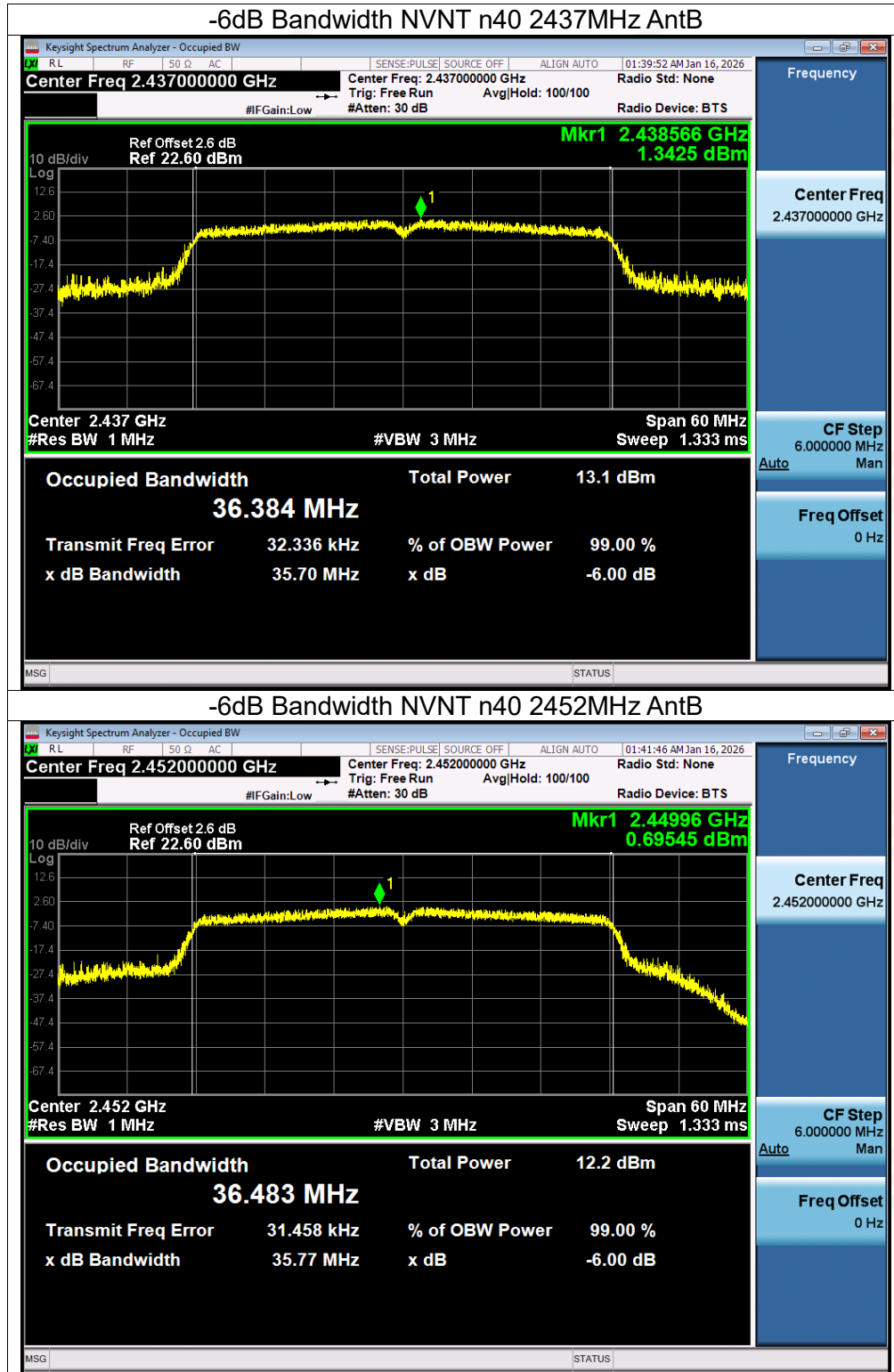


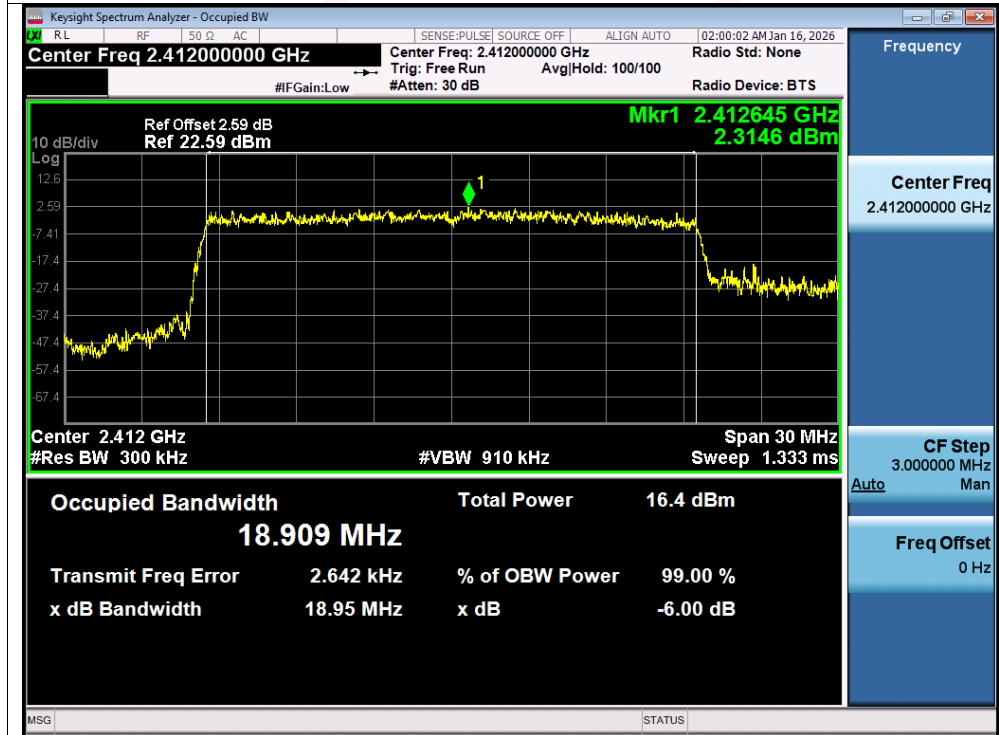


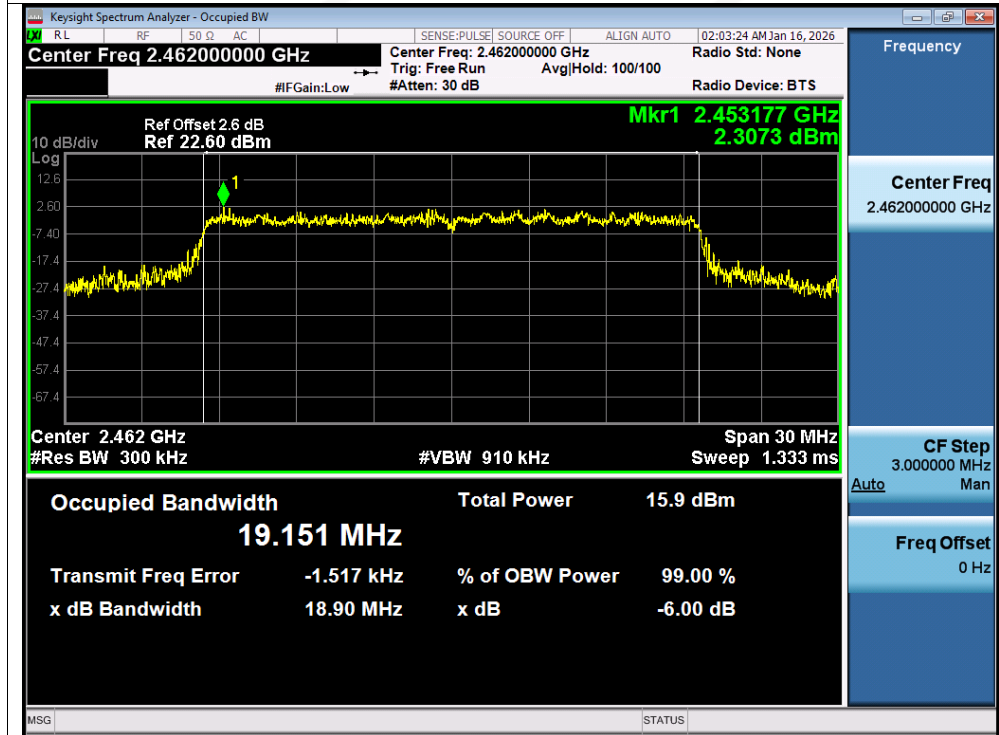
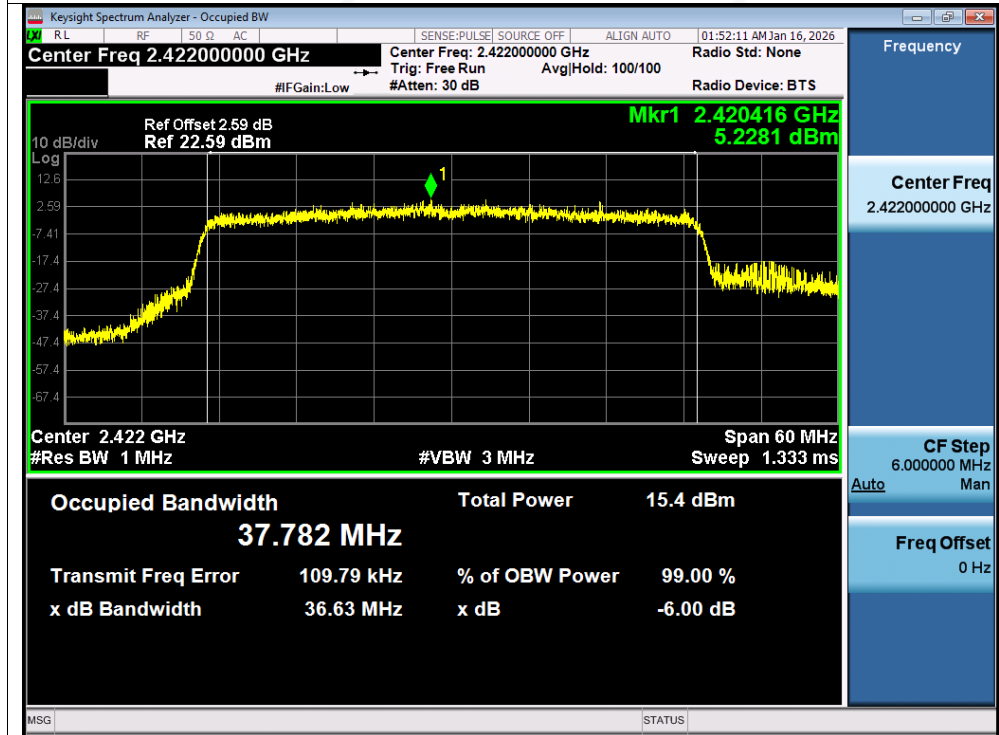


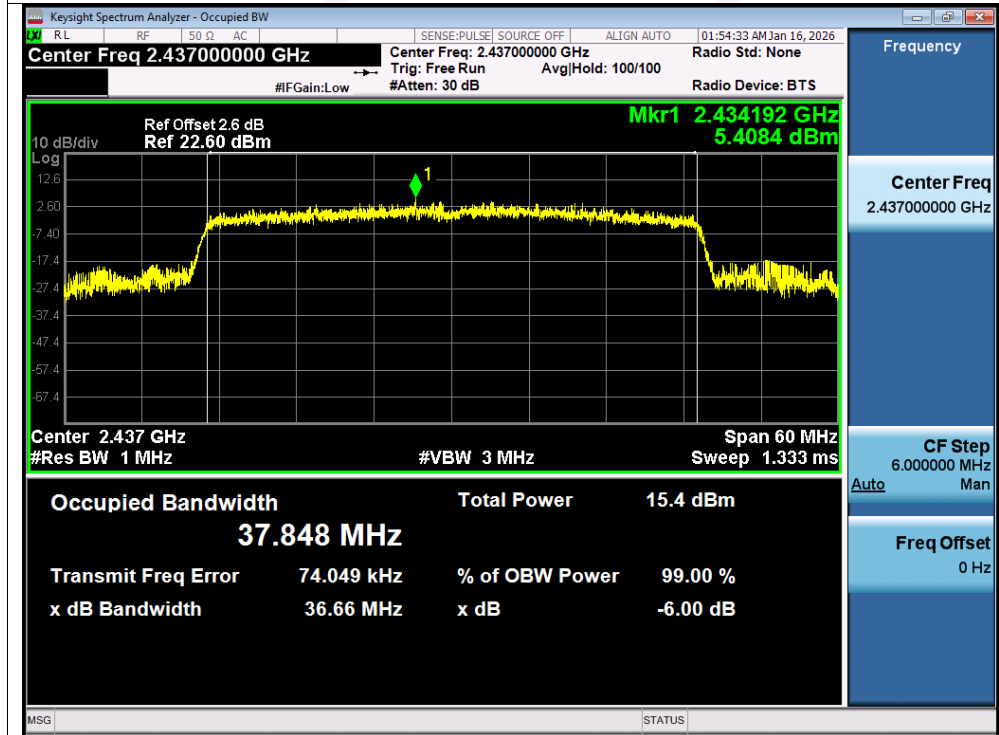
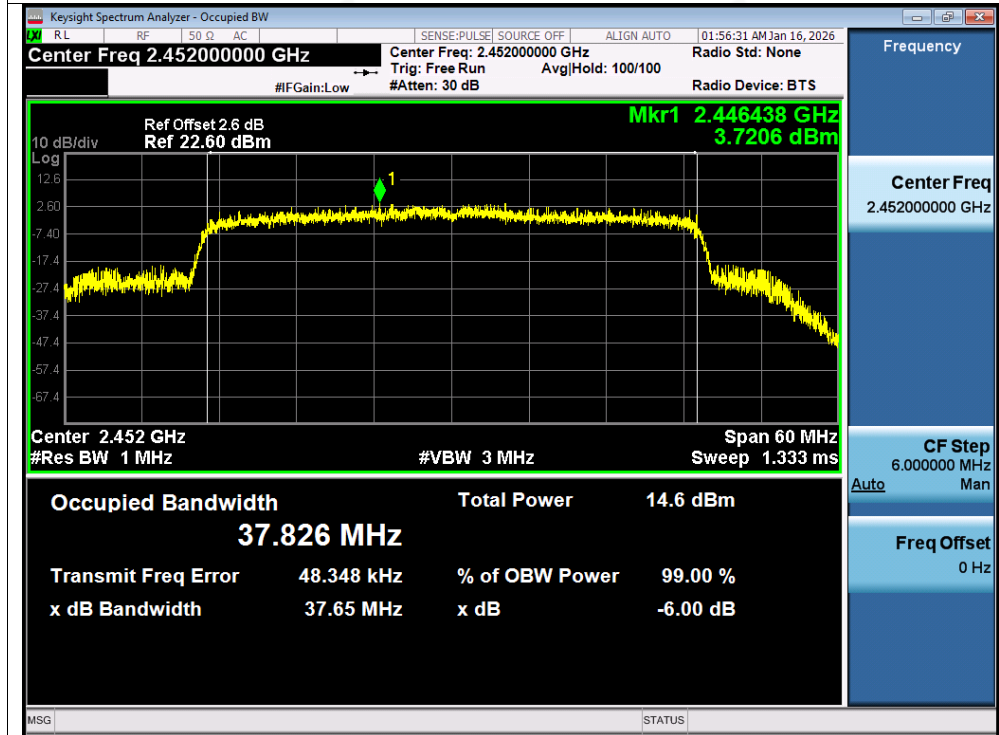






**-6dB Bandwidth NVNT ax20 2412MHz AntB****-6dB Bandwidth NVNT ax20 2437MHz AntB**

**-6dB Bandwidth NVNT ax20 2462MHz AntB****-6dB Bandwidth NVNT ax40 2422MHz AntB**

**-6dB Bandwidth NVNT ax40 2437MHz AntB****-6dB Bandwidth NVNT ax40 2452MHz AntB**



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	AntB	12.526
		2437		12.505
		2462		12.519
	g	2412		16.638
		2437		17.022
		2462		16.986
	n20	2412		17.729
		2437		18.138
		2462		18.094
	n40	2422		36.187
		2437		36.243
		2452		36.142
	ax20	2412		18.866
		2437		19.085
		2462		19.189
	ax40	2422		37.588
		2437		37.583
		2452		37.639



Test Graphs

OBW NVNT b 2412MHz AntB

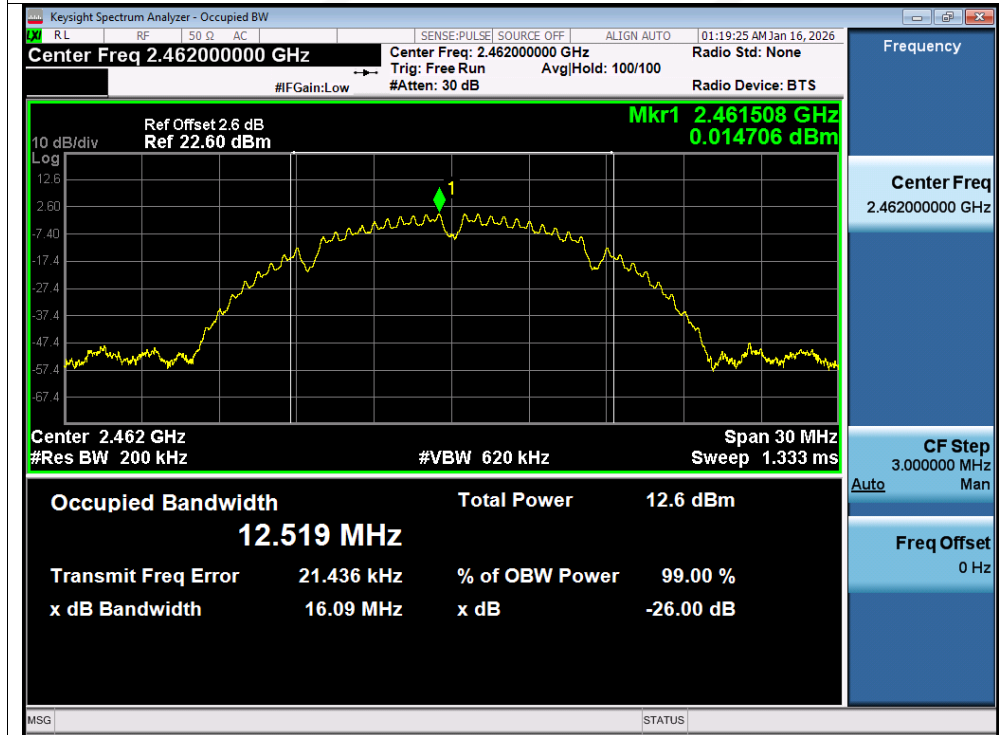


OBW NVNT b 2437MHz AntB





OBW NVNT b 2462MHz AntB

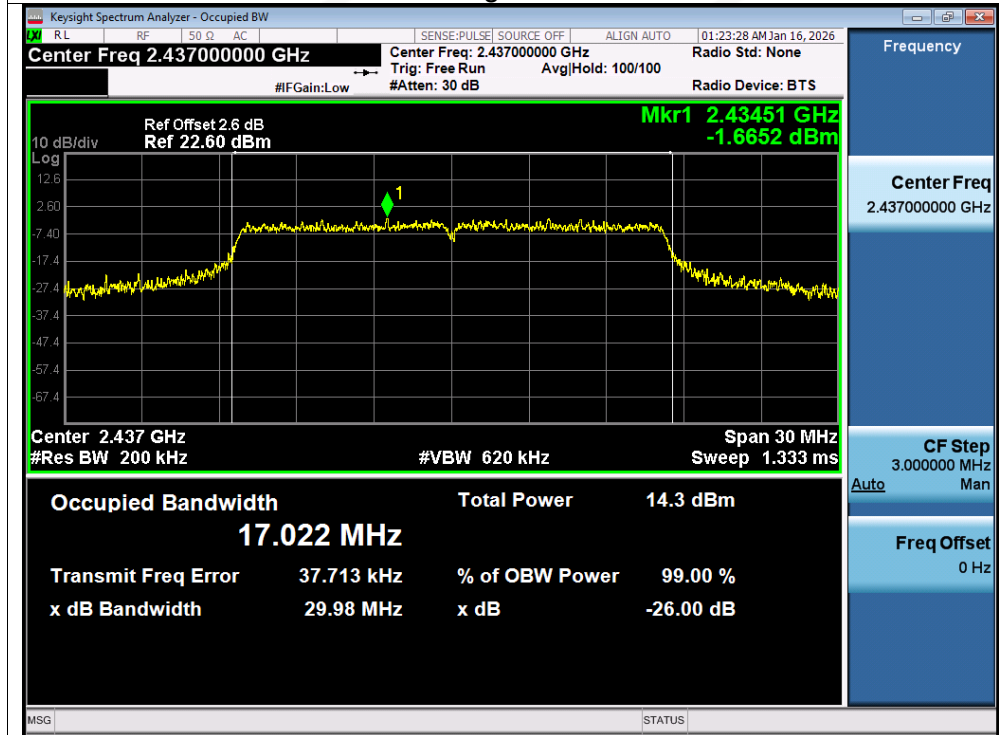


OBW NVNT g 2412MHz AntB

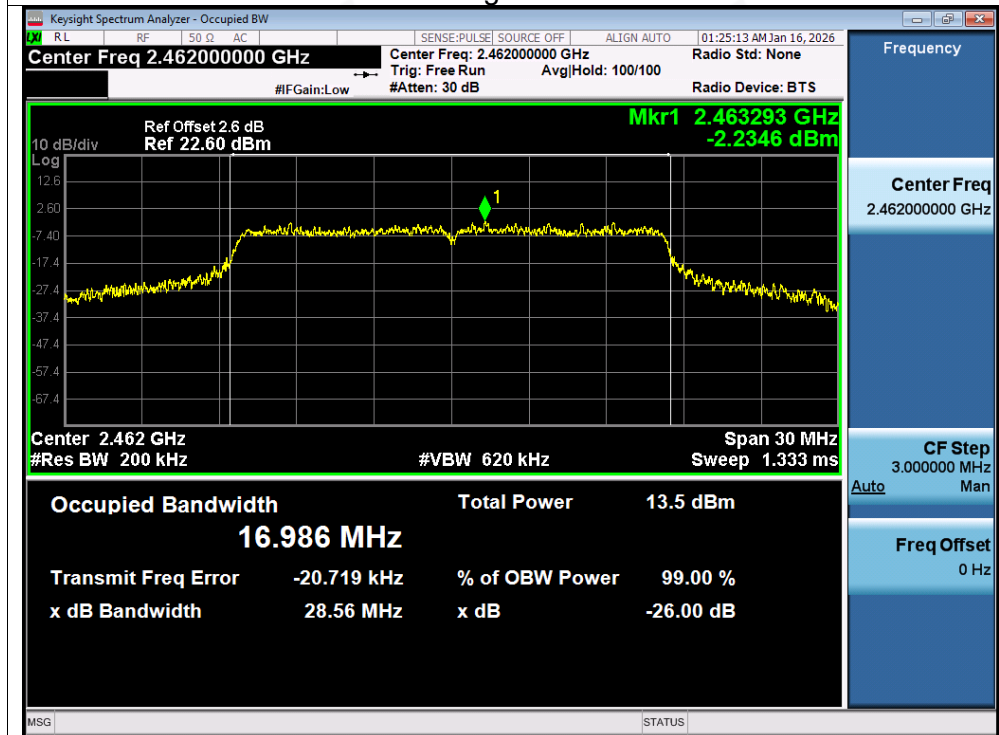




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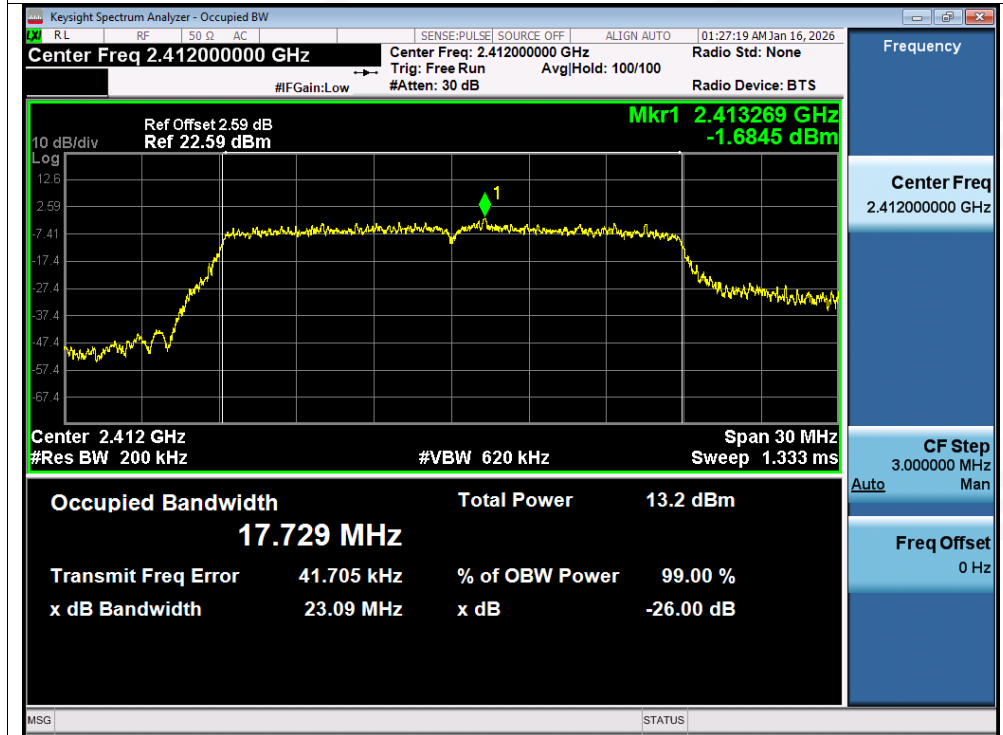


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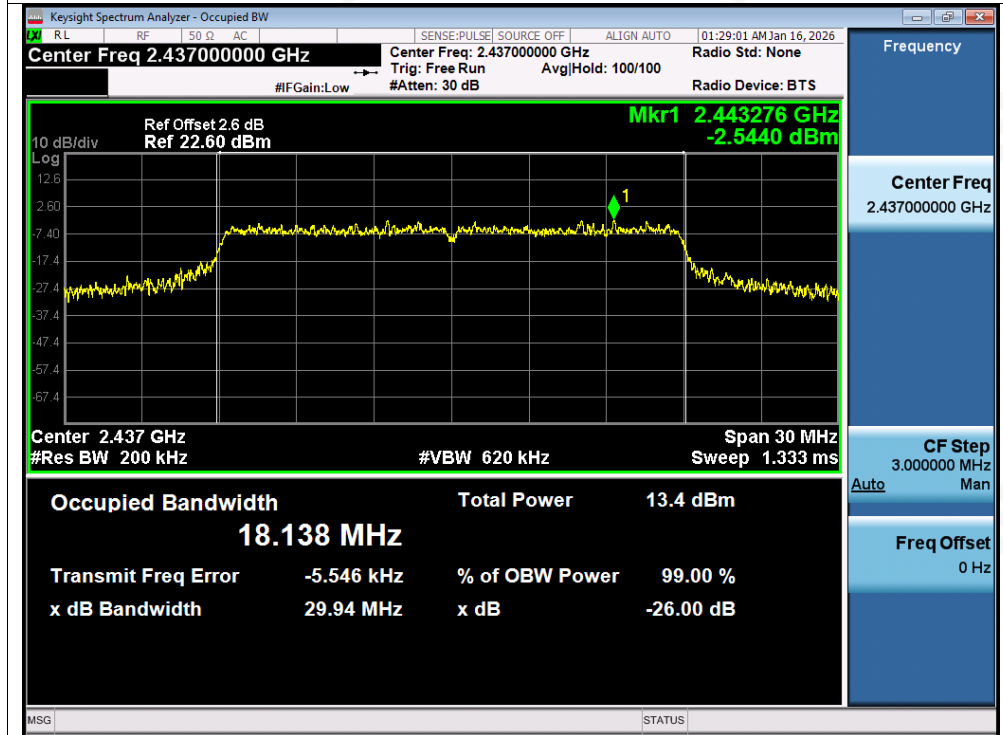




OBW NVNT n20 2412MHz AntB

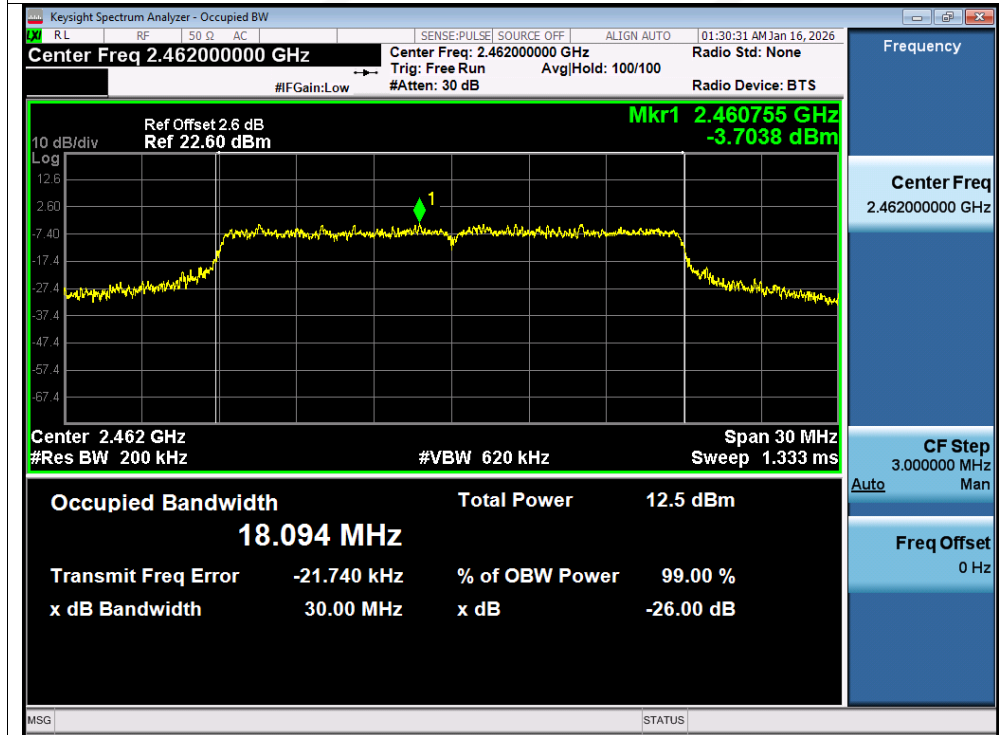


OBW NVNT n20 2437MHz AntB





OBW NVNT n20 2462MHz AntB



OBW NVNT n40 2422MHz AntB





OBW NVNT n40 2437MHz AntB

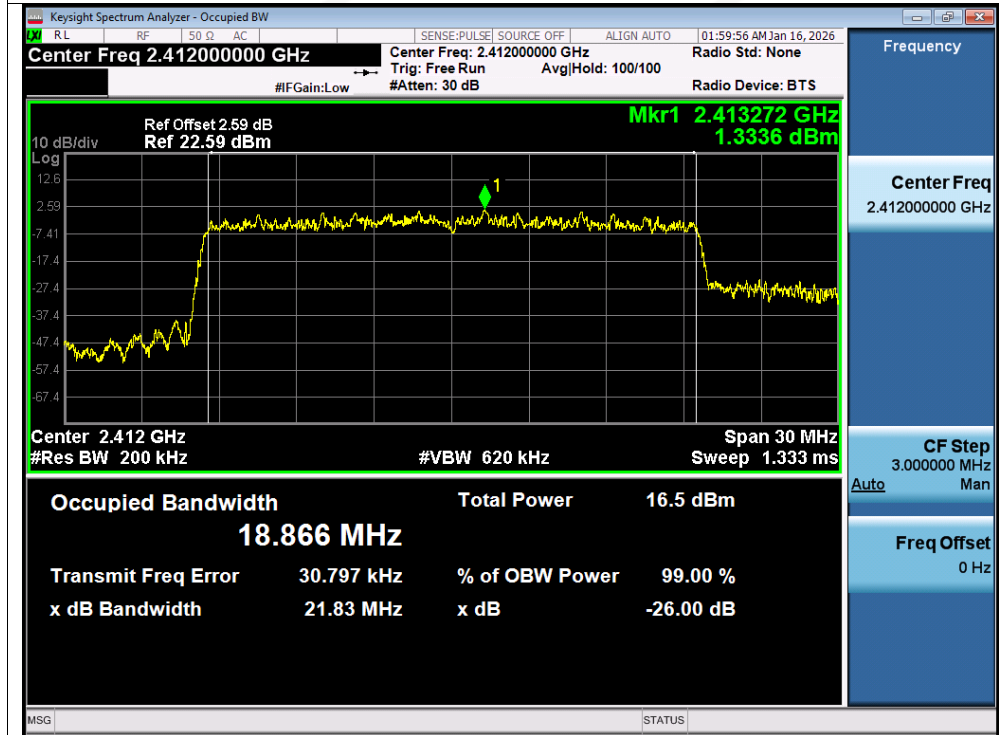


OBW NVNT n40 2452MHz AntB

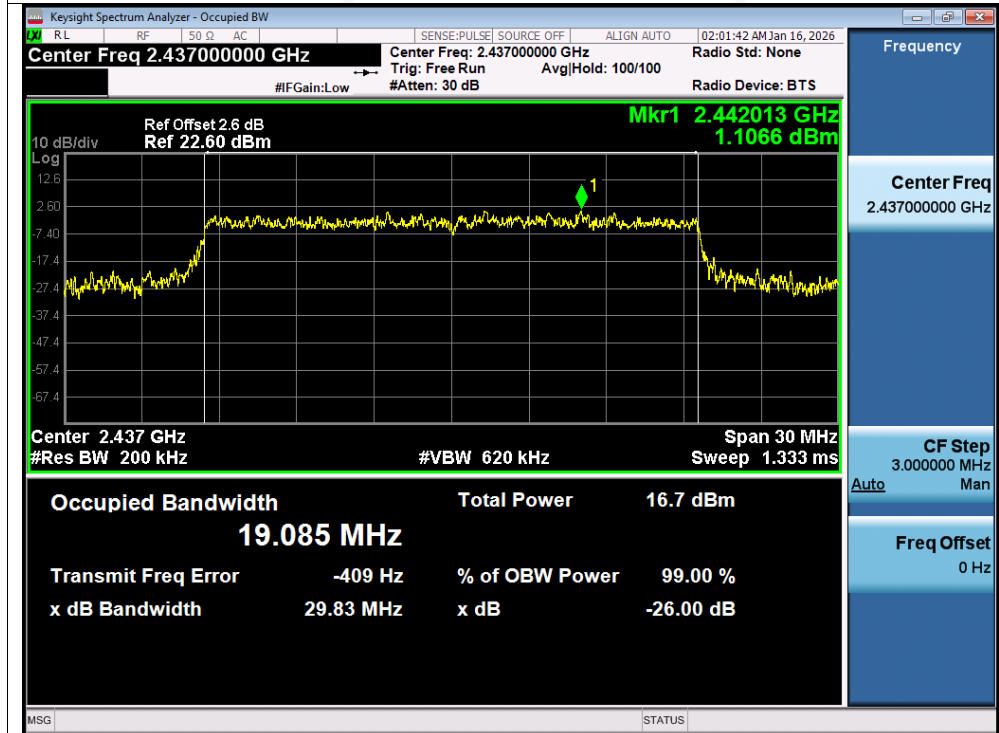




OBW NVNT ax20 2412MHz AntB

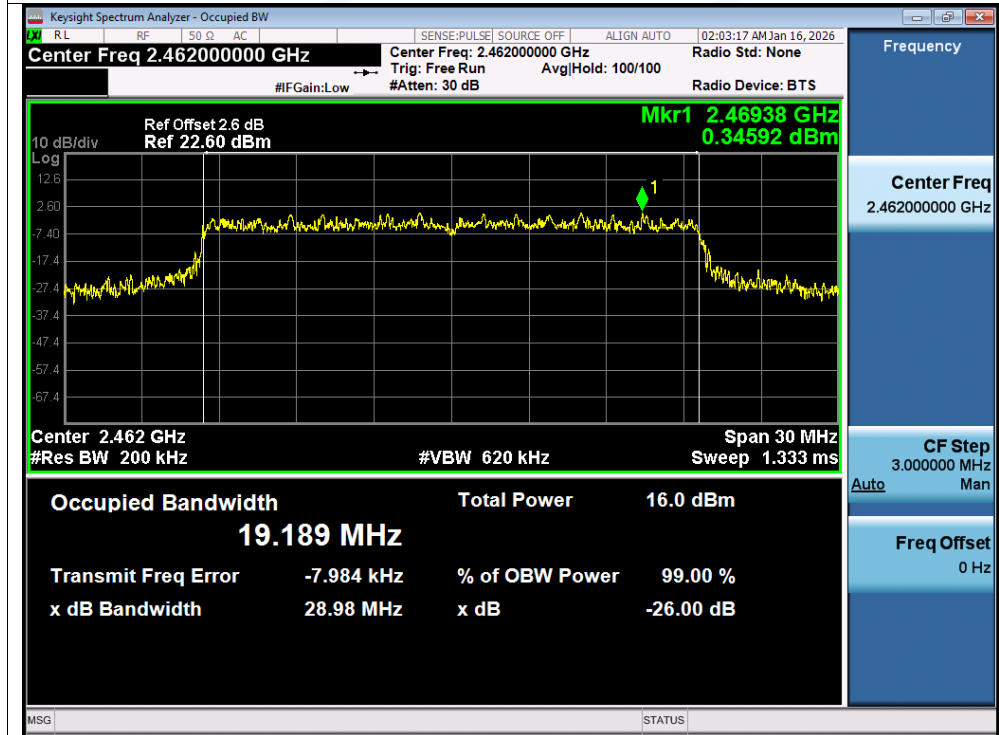


OBW NVNT ax20 2437MHz AntB





OBW NVNT ax20 2462MHz AntB

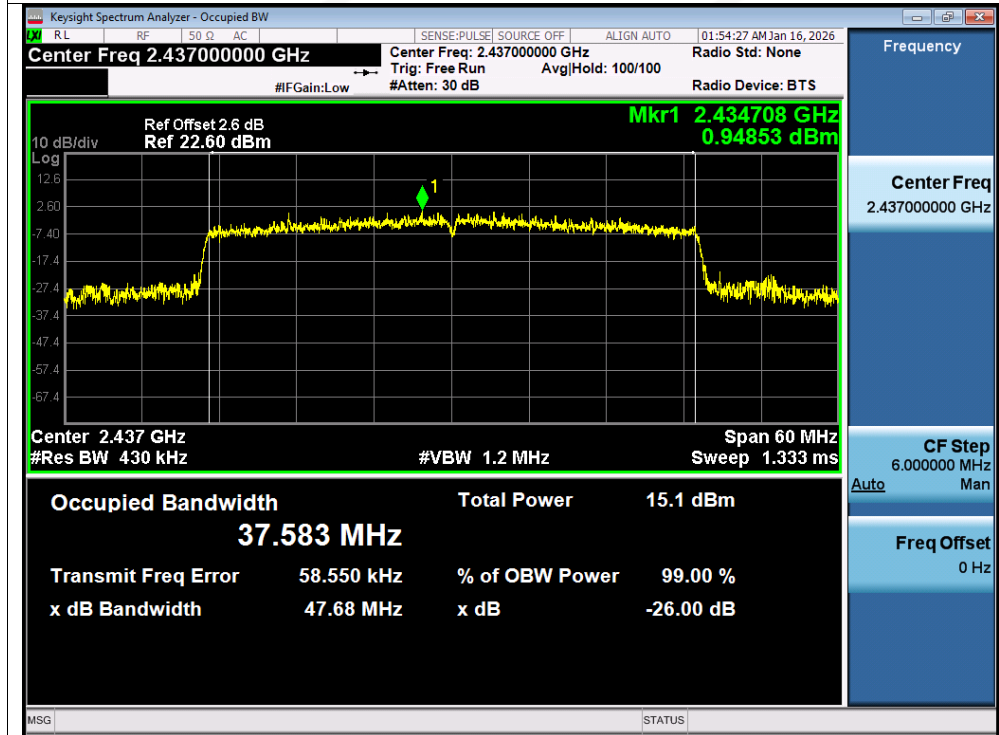


OBW NVNT ax40 2422MHz AntB





OBW NVNT ax40 2437MHz AntB



OBW NVNT ax40 2452MHz AntB





Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	AntB	-9.81	8	Pass
NVNT	b	2437	AntB	-10.23	8	Pass
NVNT	b	2462	AntB	-10.23	8	Pass
NVNT	g	2412	AntB	-14.39	8	Pass
NVNT	g	2437	AntB	-13.81	8	Pass
NVNT	g	2462	AntB	-13.67	8	Pass
NVNT	n20	2412	AntB	-13.99	8	Pass
NVNT	n20	2437	AntB	-15.31	8	Pass
NVNT	n20	2462	AntB	-14.9	8	Pass
NVNT	n40	2422	AntB	-17.9	8	Pass
NVNT	n40	2437	AntB	-17.89	8	Pass
NVNT	n40	2452	AntB	-18.44	8	Pass
NVNT	ax20	2412	AntB	-16.68	8	Pass
NVNT	ax20	2437	AntB	-17.23	8	Pass
NVNT	ax20	2462	AntB	-17.23	8	Pass
NVNT	ax40	2422	AntB	-17.33	8	Pass
NVNT	ax40	2437	AntB	-19.09	8	Pass
NVNT	ax40	2452	AntB	-17.99	8	Pass

Condition	Mode	Frequency (MHz)	Conducted PSD (dBm/3kHz)				Verdict
			ANT A	ANT B	Total	Limit	
NVNT	b	2412	-9.24	-9.81	/	8	Pass
NVNT	b	2437	-9.46	-10.23	/	8	Pass
NVNT	b	2462	-10.73	-10.23	/	8	Pass
NVNT	g	2412	-13.51	-14.39	/	8	Pass
NVNT	g	2437	-13.4	-13.81	/	8	Pass
NVNT	g	2462	-14.17	-13.67	/	8	Pass
NVNT	n20	2412	-15.16	-13.99	-11.53	8	Pass
NVNT	n20	2437	-15.19	-15.31	-12.24	8	Pass
NVNT	n20	2462	-14.63	-14.9	-11.75	8	Pass
NVNT	n40	2422	-17.47	-17.9	-14.67	8	Pass
NVNT	n40	2437	-16.79	-17.89	-14.29	8	Pass
NVNT	n40	2452	-18.08	-18.44	-15.25	8	Pass
NVNT	ax20	2412	-15.68	-16.68	-13.14	8	Pass
NVNT	ax20	2437	-15.09	-17.23	-13.02	8	Pass
NVNT	ax20	2462	-15.9	-17.23	-13.50	8	Pass
NVNT	ax40	2422	-19.65	-17.33	-15.33	8	Pass
NVNT	ax40	2437	-19.65	-19.09	-16.35	8	Pass
NVNT	ax40	2452	-19.45	-17.99	-15.65	8	Pass

Antenna gain:0.7dBi

Directional gain = GANT + 10 log(NANT) dBi=0.7+10log(2)=3.71dBi

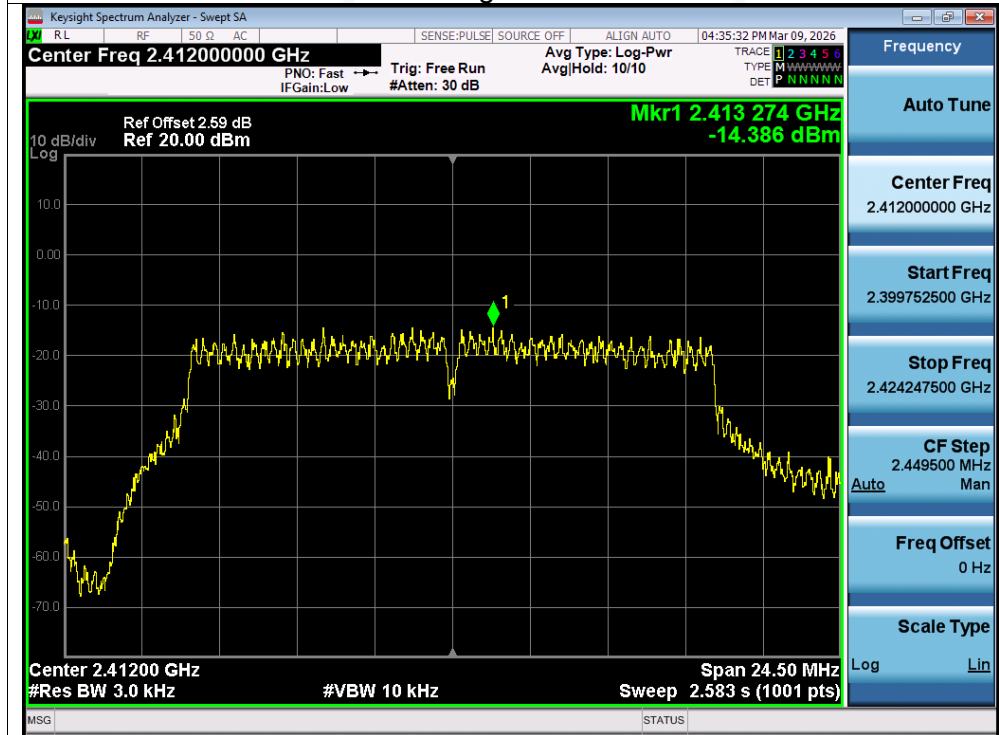




PSD NVNT b 2462MHz AntB

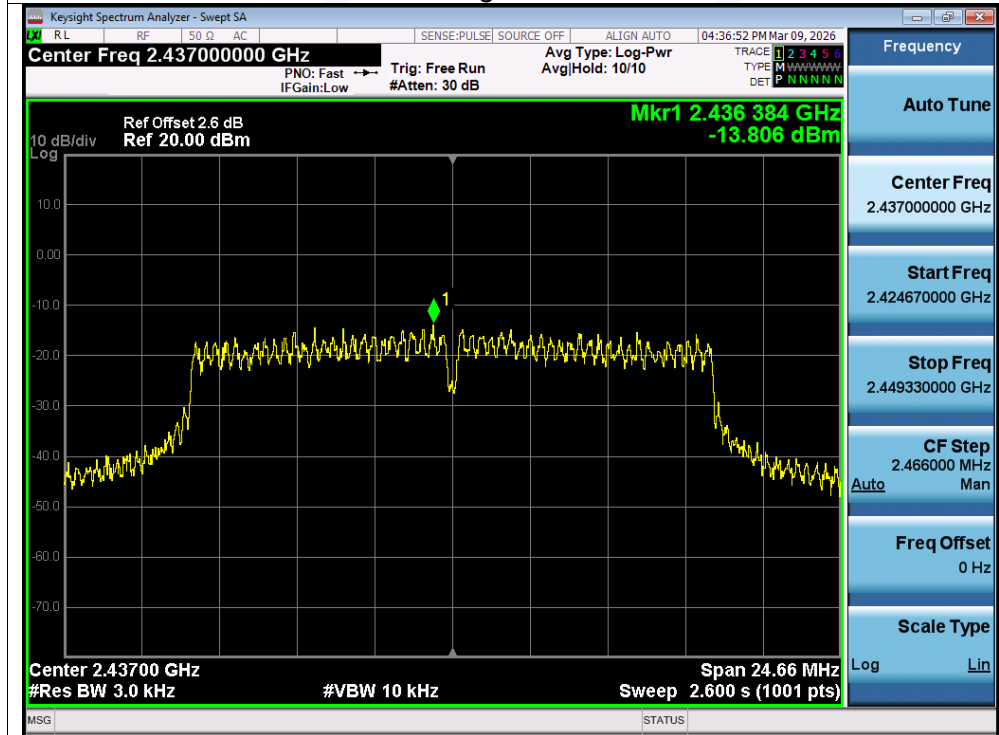


PSD NVNT g 2412MHz AntB

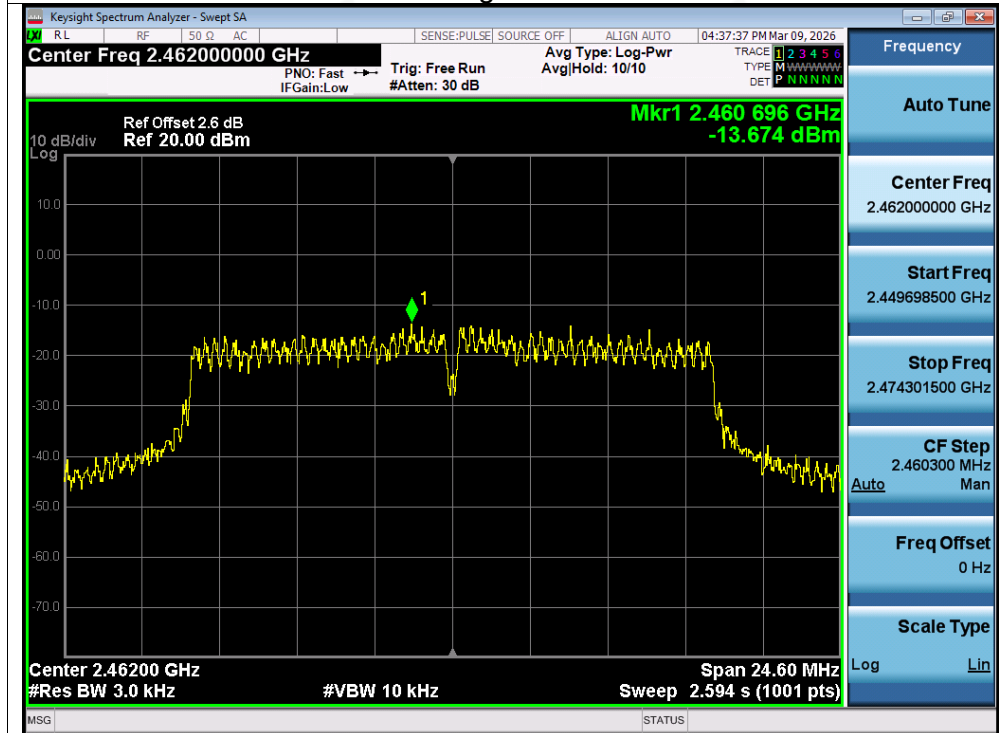




PSD NVNT g 2437MHz AntB

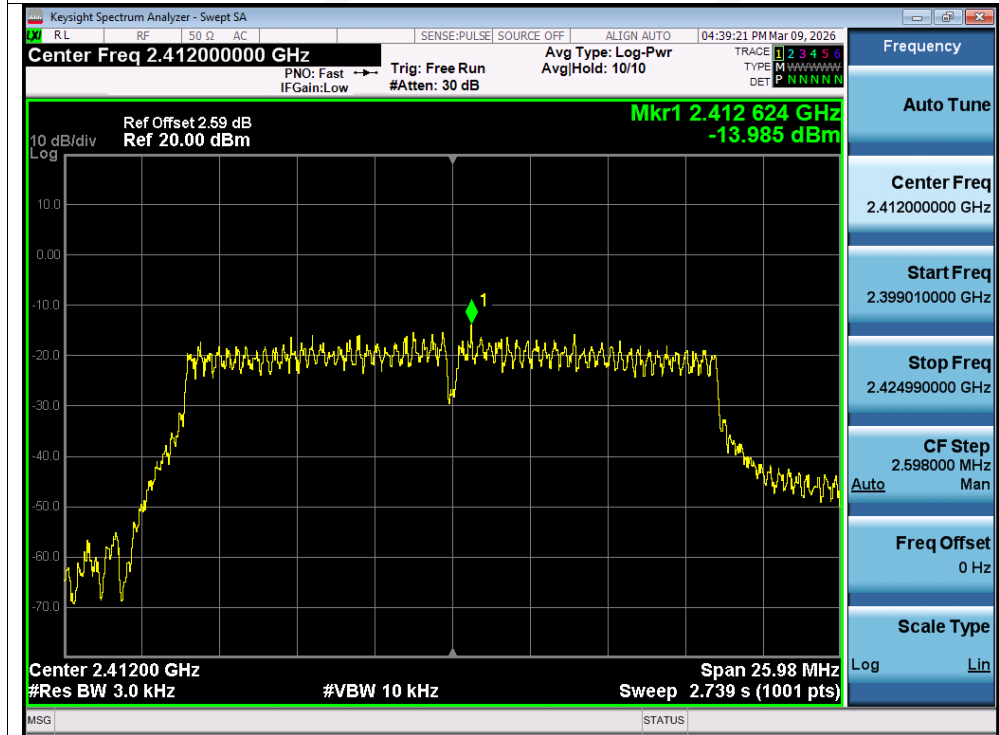


PSD NVNT g 2462MHz AntB

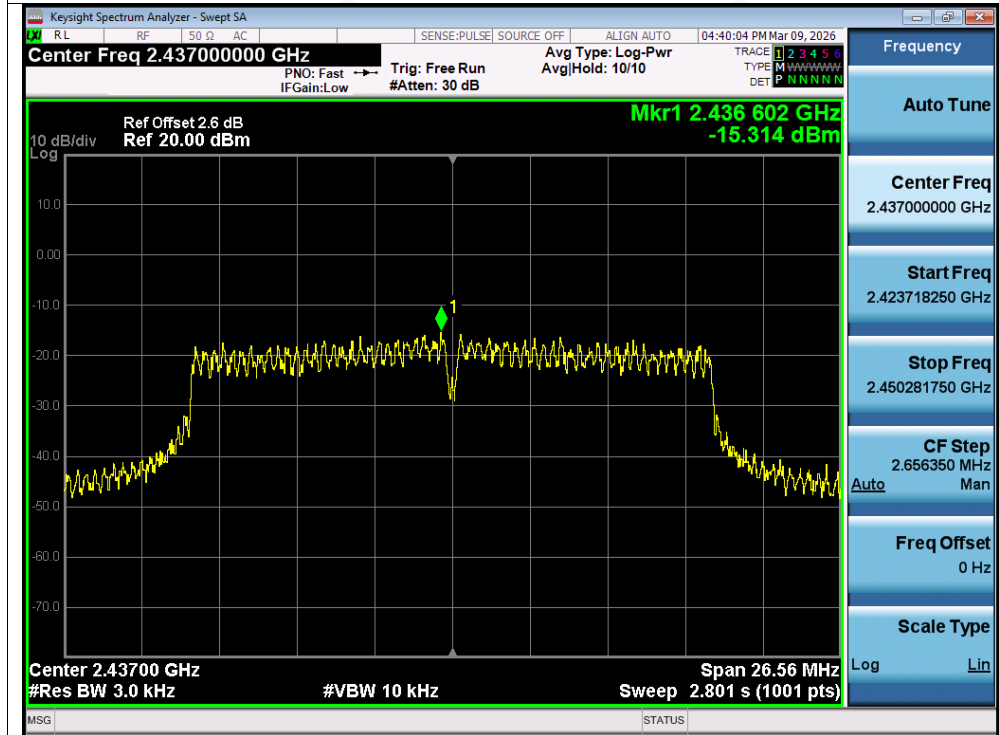




PSD NVNT n20 2412MHz AntB

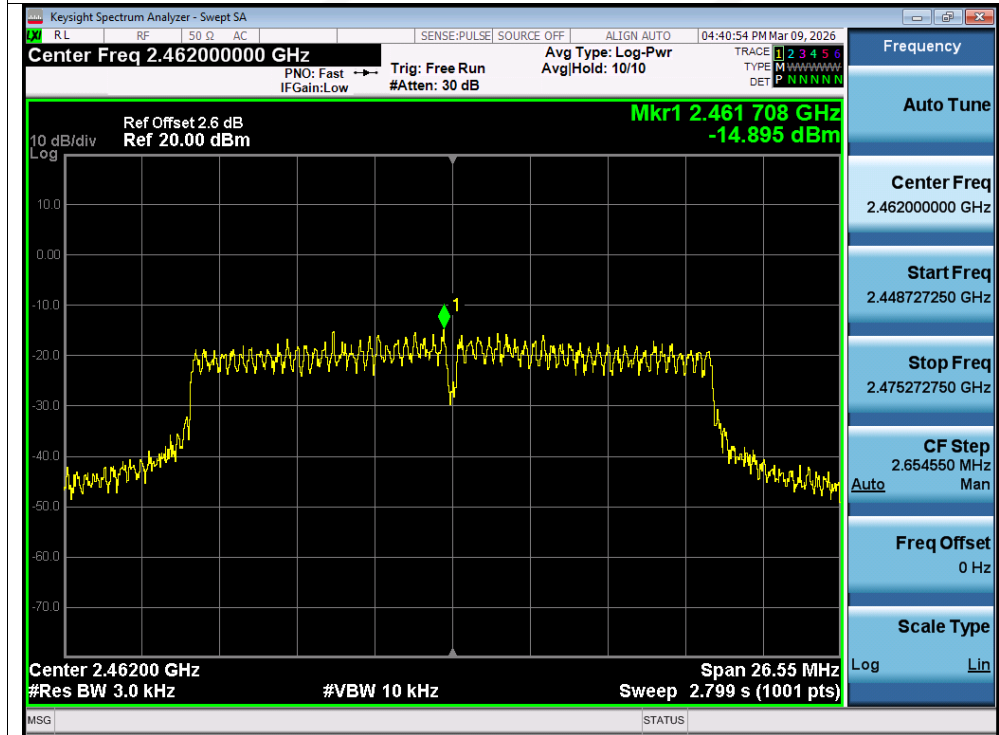


PSD NVNT n20 2437MHz AntB

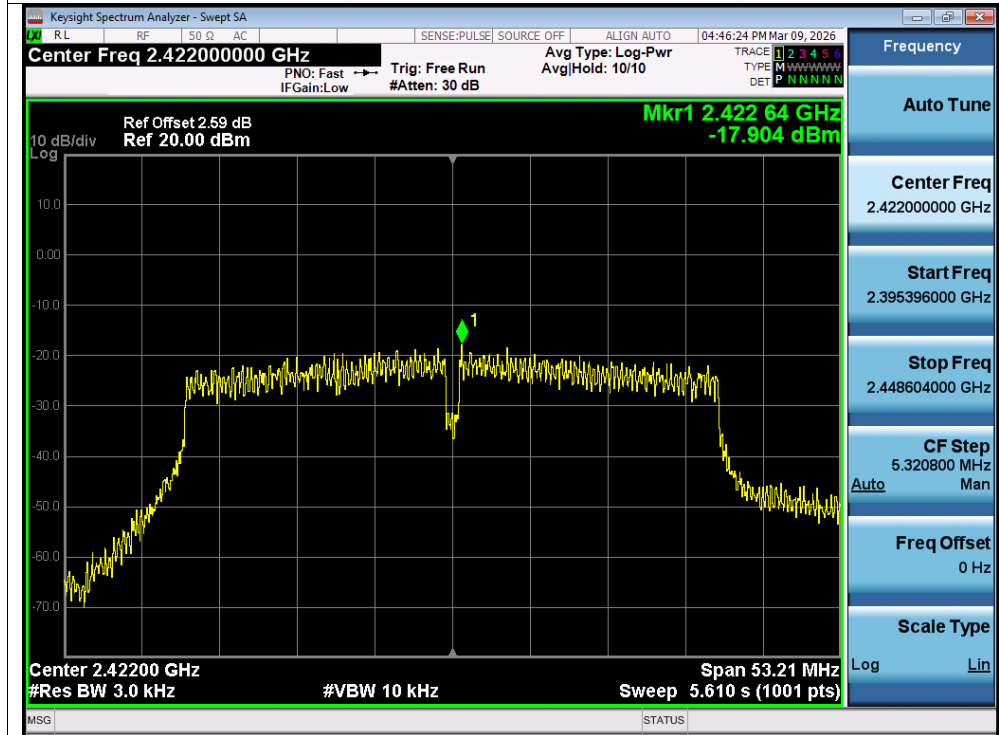




PSD NVNT n20 2462MHz AntB

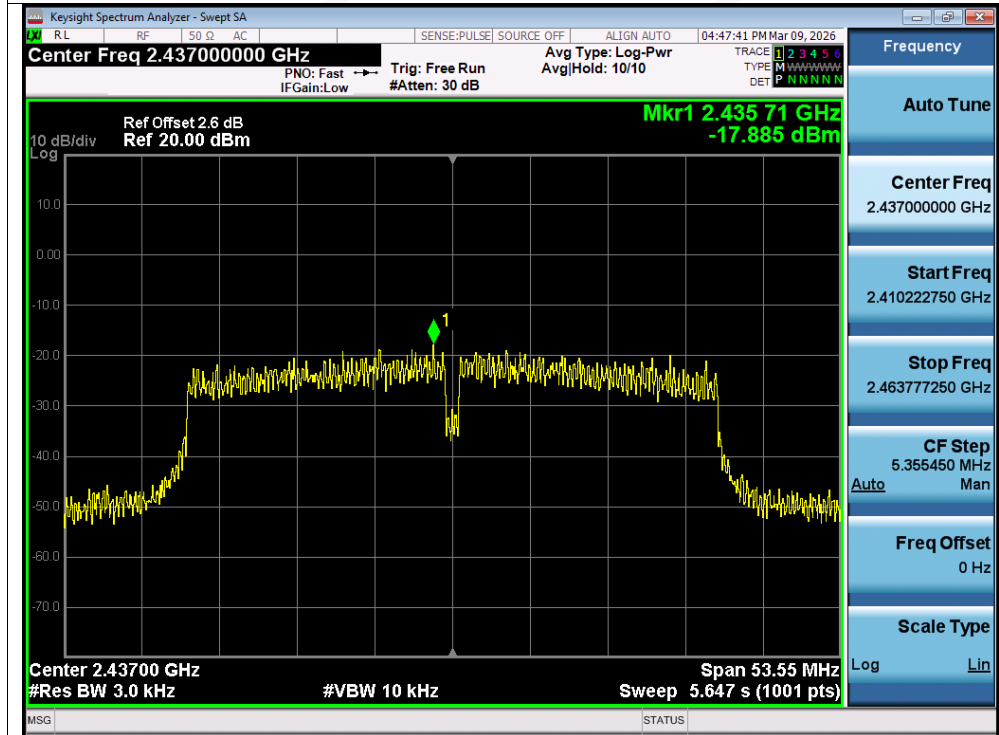


PSD NVNT n40 2422MHz AntB

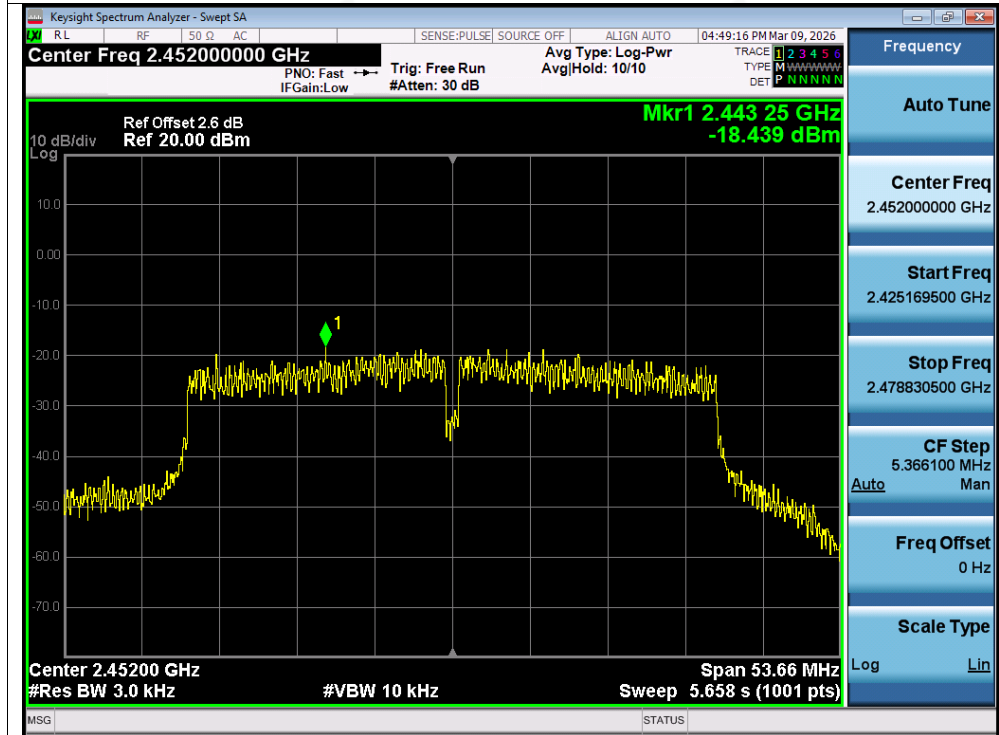


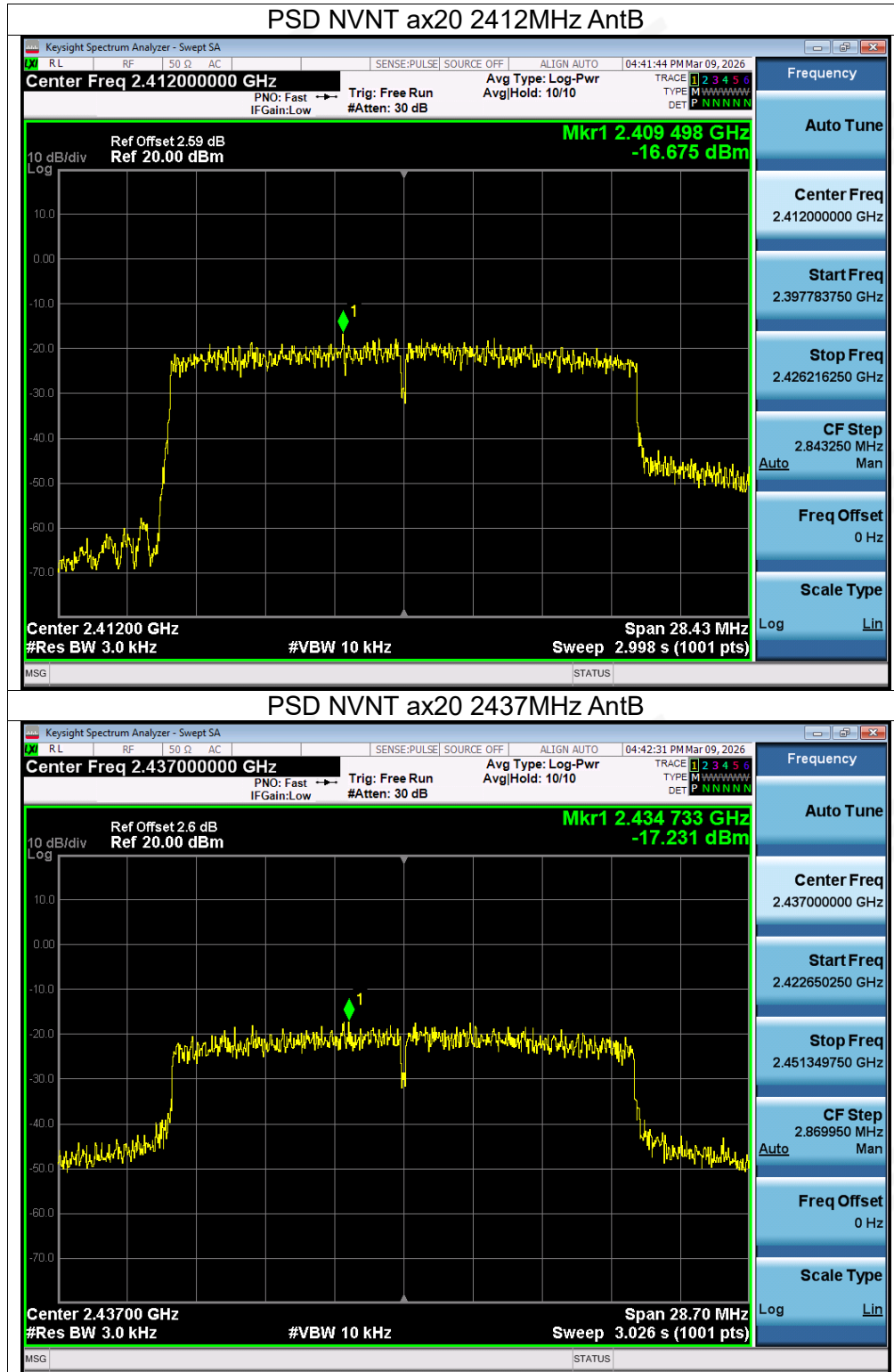


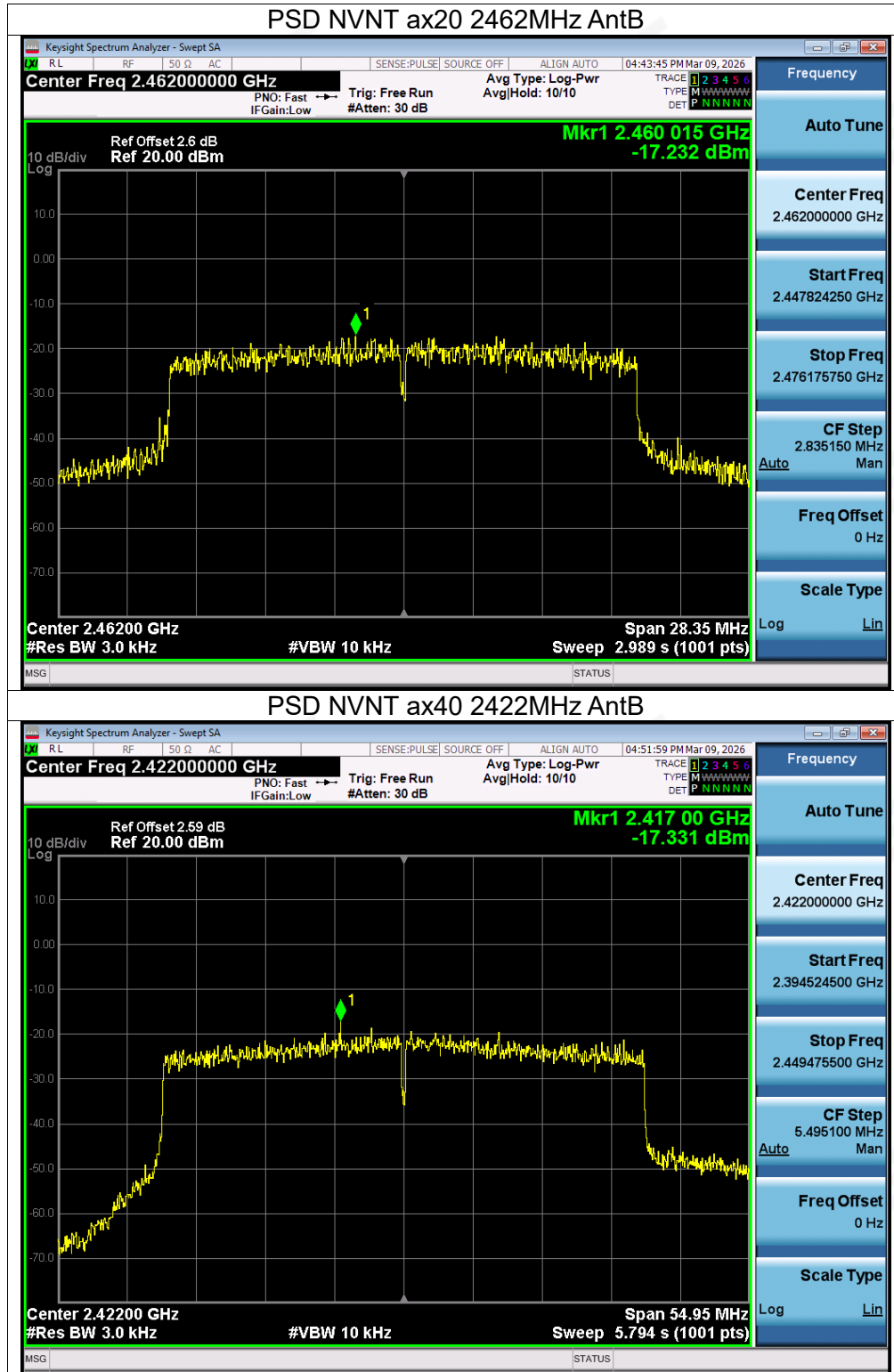
PSD NVNT n40 2437MHz AntB



PSD NVNT n40 2452MHz AntB

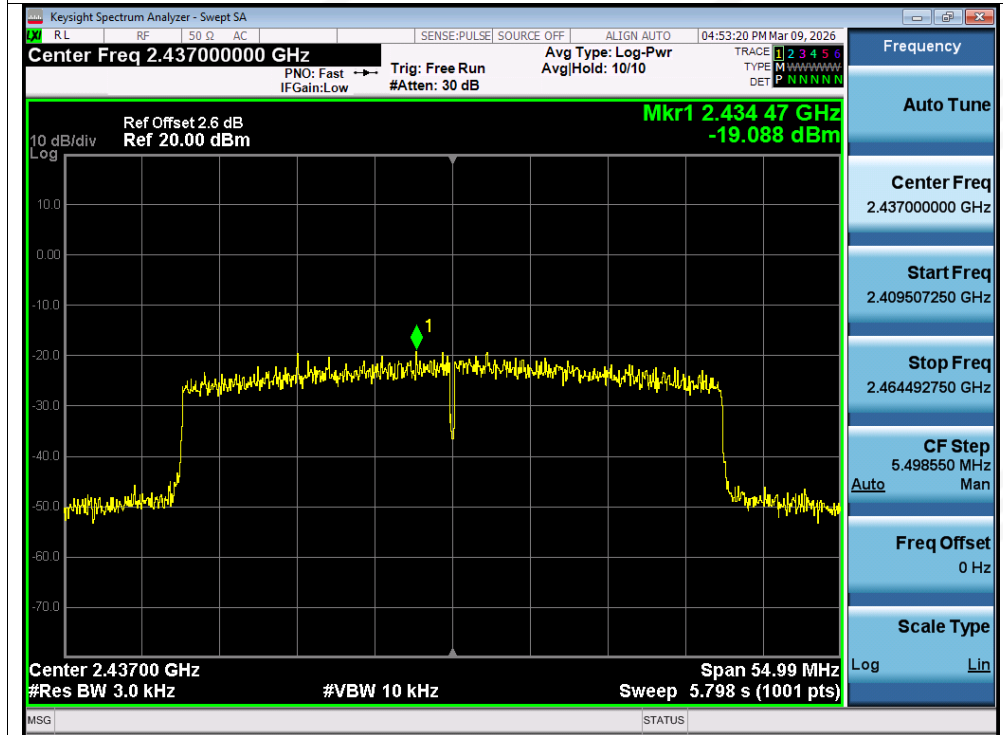








PSD NVNT ax40 2437MHz AntB



PSD NVNT ax40 2452MHz AntB

