RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	MINI PC
Test Model:	MN
Sample ID:	RW-C-202404-0249-5-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	48%
Test Voltage:	DC 19V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202404-0249-55 The report only show the worst case data.	

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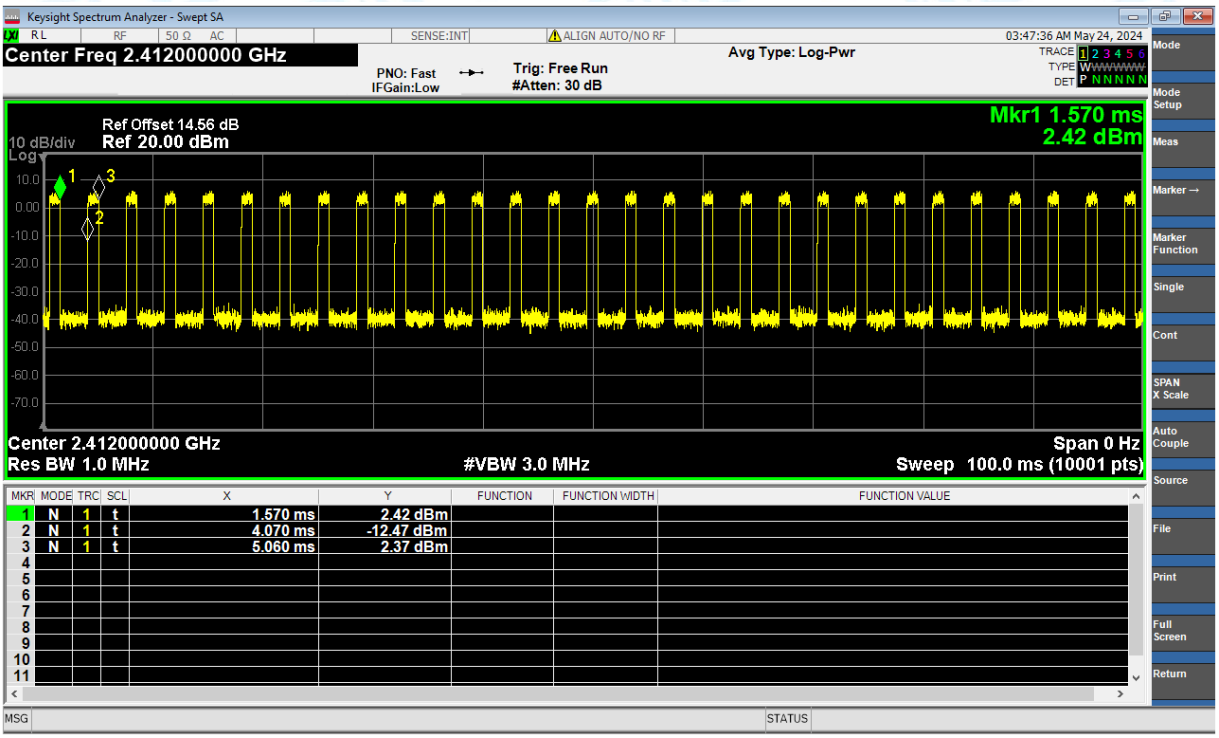
1. Duty Cycle

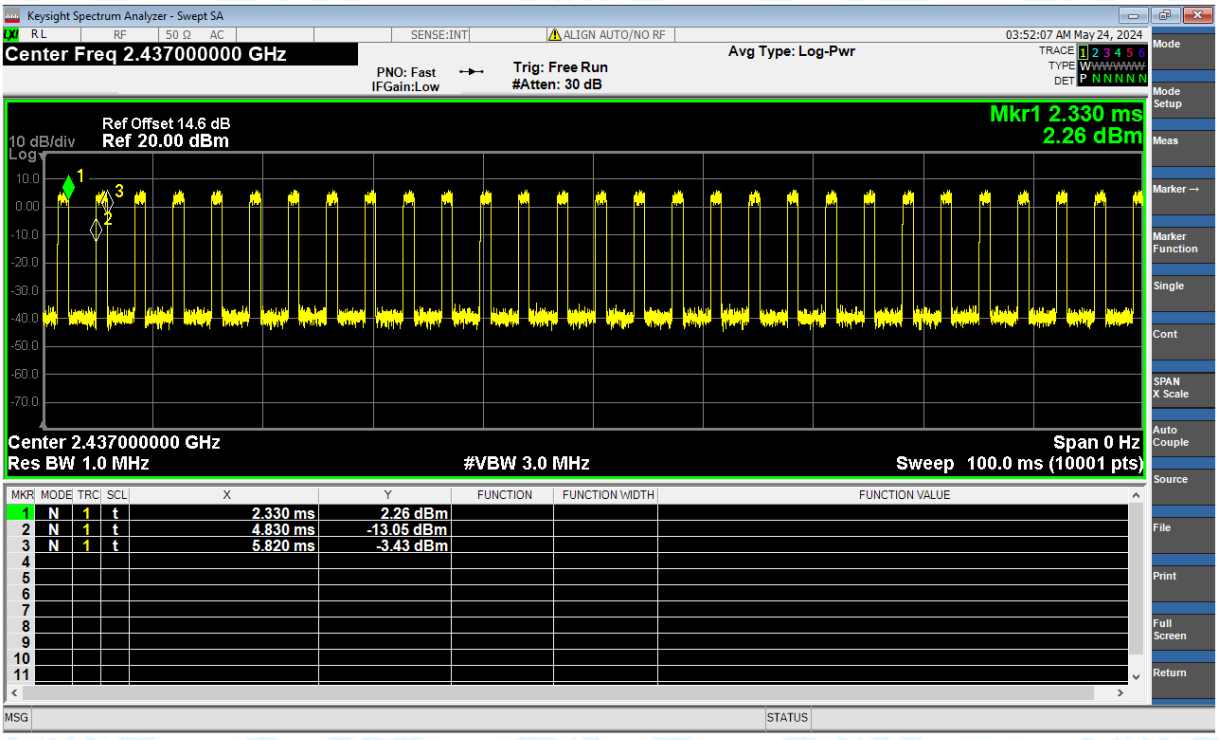
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Sum	28.37	5.47	1.01
NVNT	ax(VHT20)	2437	Sum	28.37	5.47	1.01
NVNT	ax(VHT20)	2462	Sum	28.37	5.47	1.01
NVNT	ax(VHT40)	2422	Sum	16.89	7.72	1.96
NVNT	ax(VHT40)	2437	Sum	16.89	7.72	1.96
NVNT	ax(VHT40)	2452	Sum	16.89	7.72	1.96
NVNT	b	2412	Sum	76.54	1.16	0.12
NVNT	b	2437	Sum	76.61	1.16	0.12
NVNT	b	2462	Sum	76.64	1.16	0.12
NVNT	g	2412	Sum	35.23	4.53	0.74
NVNT	g	2437	Sum	35.4	4.51	0.73
NVNT	g	2462	Sum	35.23	4.53	0.74
NVNT	n(HT20)	2412	Sum	31.23	5.05	0.88
NVNT	n(HT20)	2437	Sum	31.51	5.02	0.87
NVNT	n(HT20)	2462	Sum	31.23	5.05	0.88
NVNT	n(HT40)	2422	Sum	18.51	7.33	1.75
NVNT	n(HT40)	2437	Sum	18.24	7.39	1.79
NVNT	n(HT40)	2452	Sum	18.51	7.33	1.75

Test Graphs

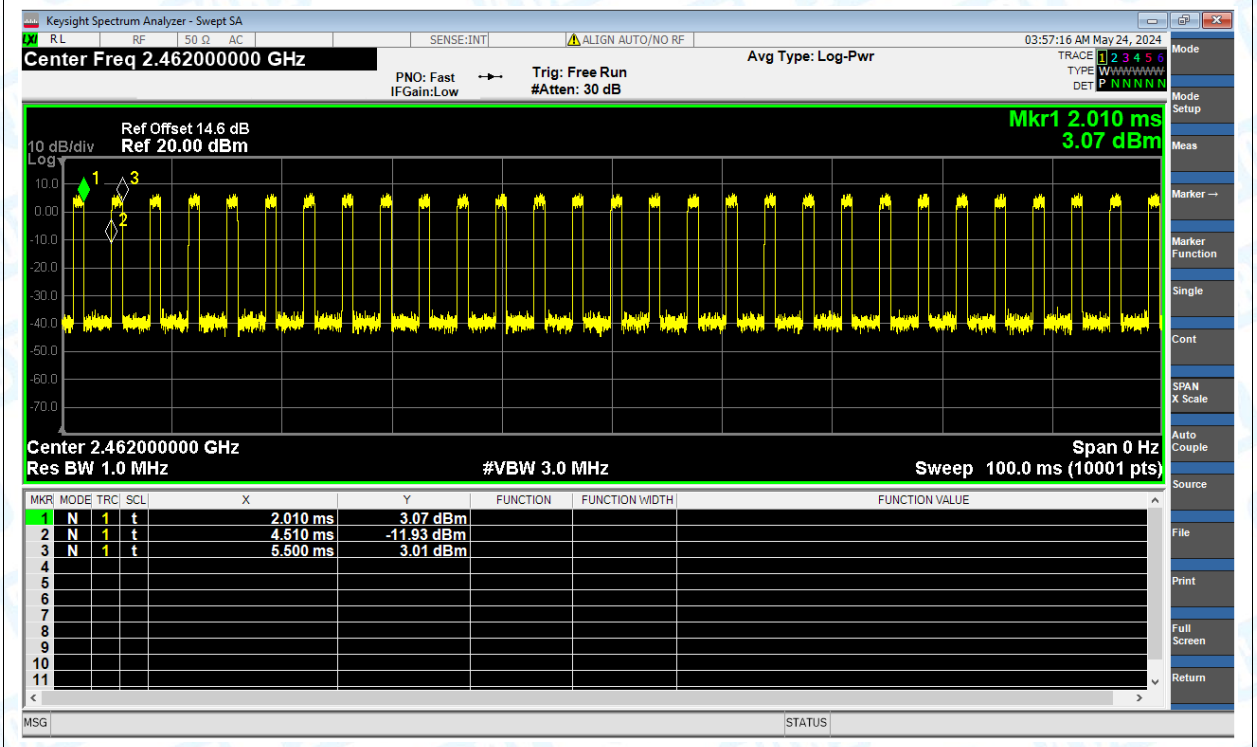
Duty Cycle NVNT ax(VHT20) 2412MHz Sum



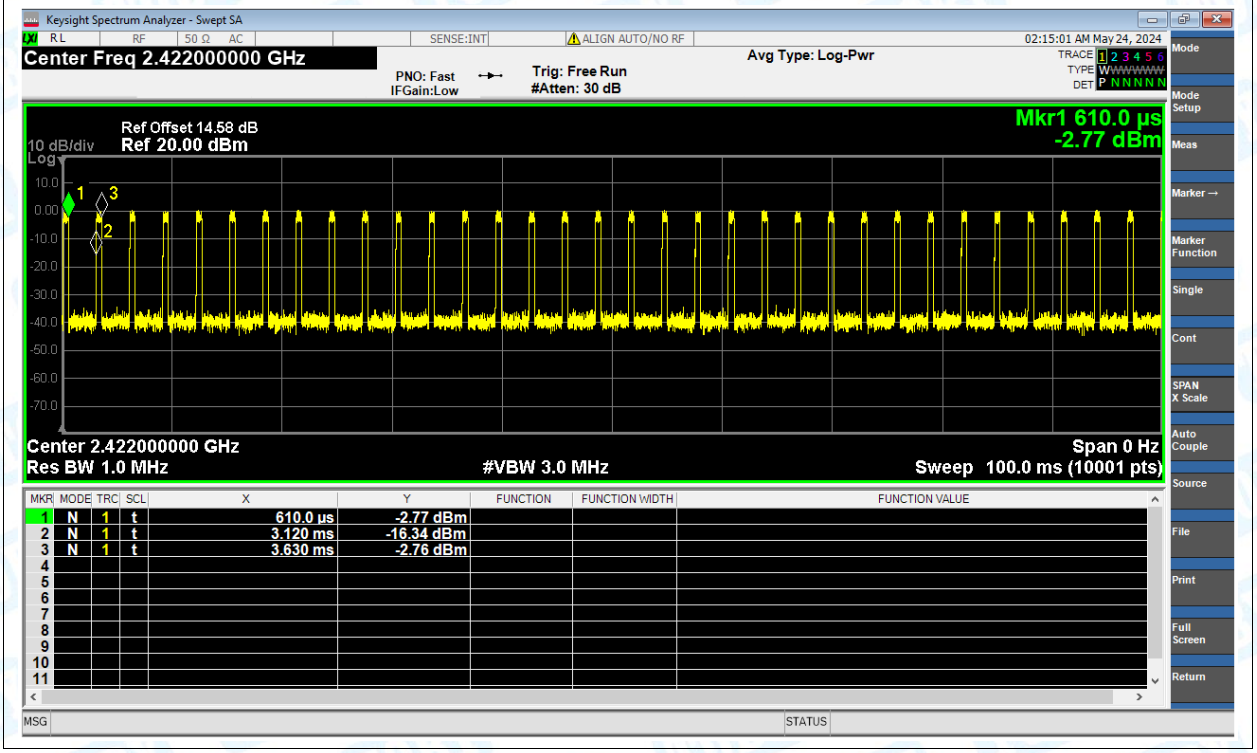
Duty Cycle NVNT ax(VHT20) 2437MHz Sum



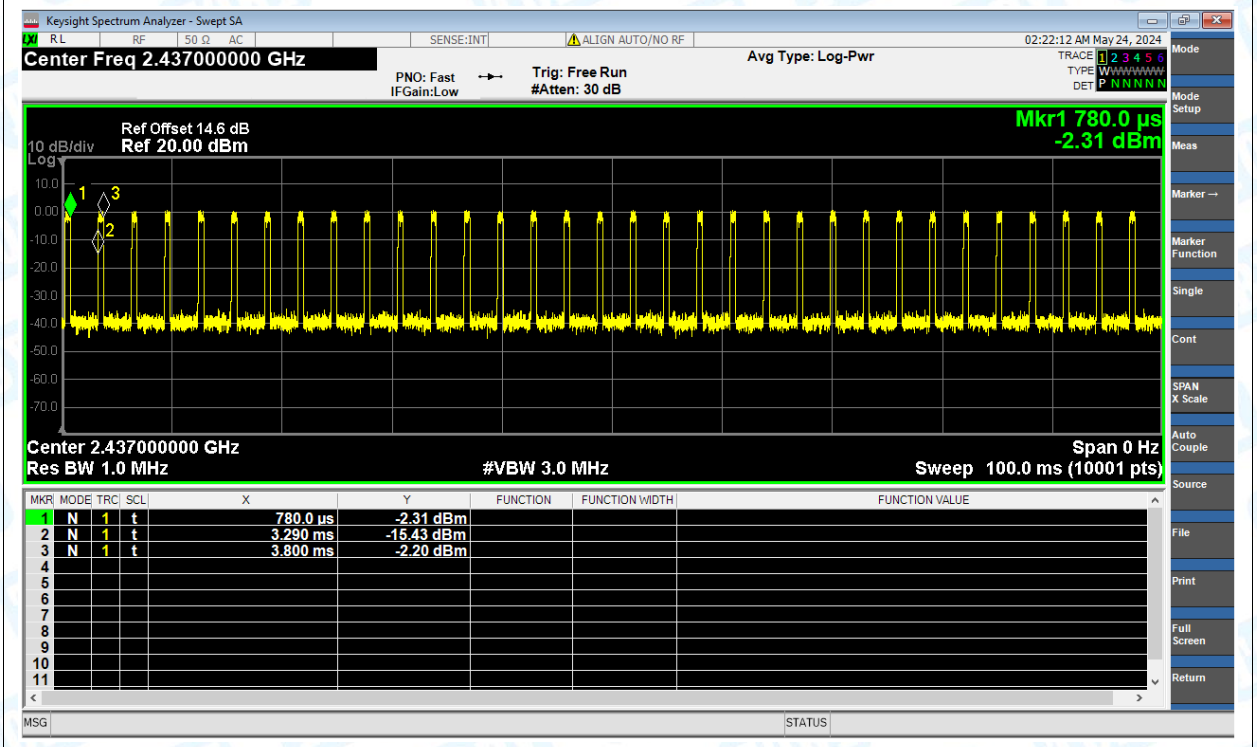
Duty Cycle NVNT ax(VHT20) 2462MHz Sum



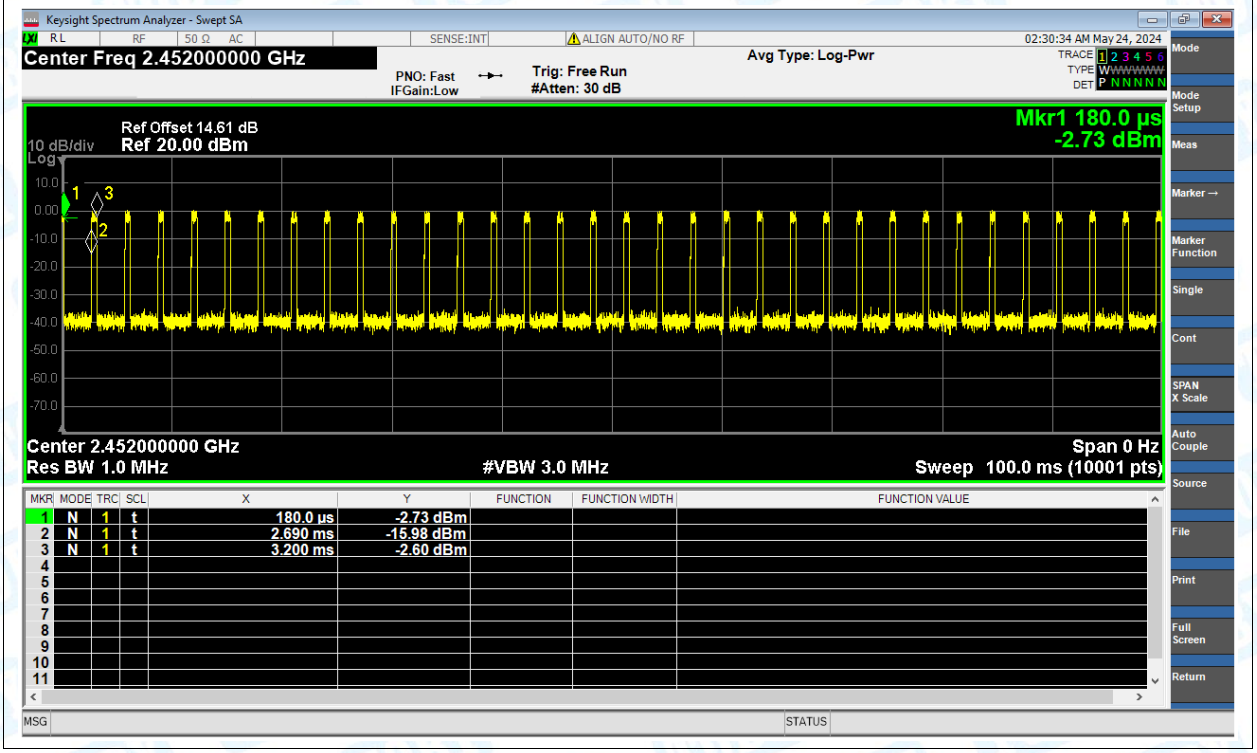
Duty Cycle NVNT ax(VHT40) 2422MHz Sum



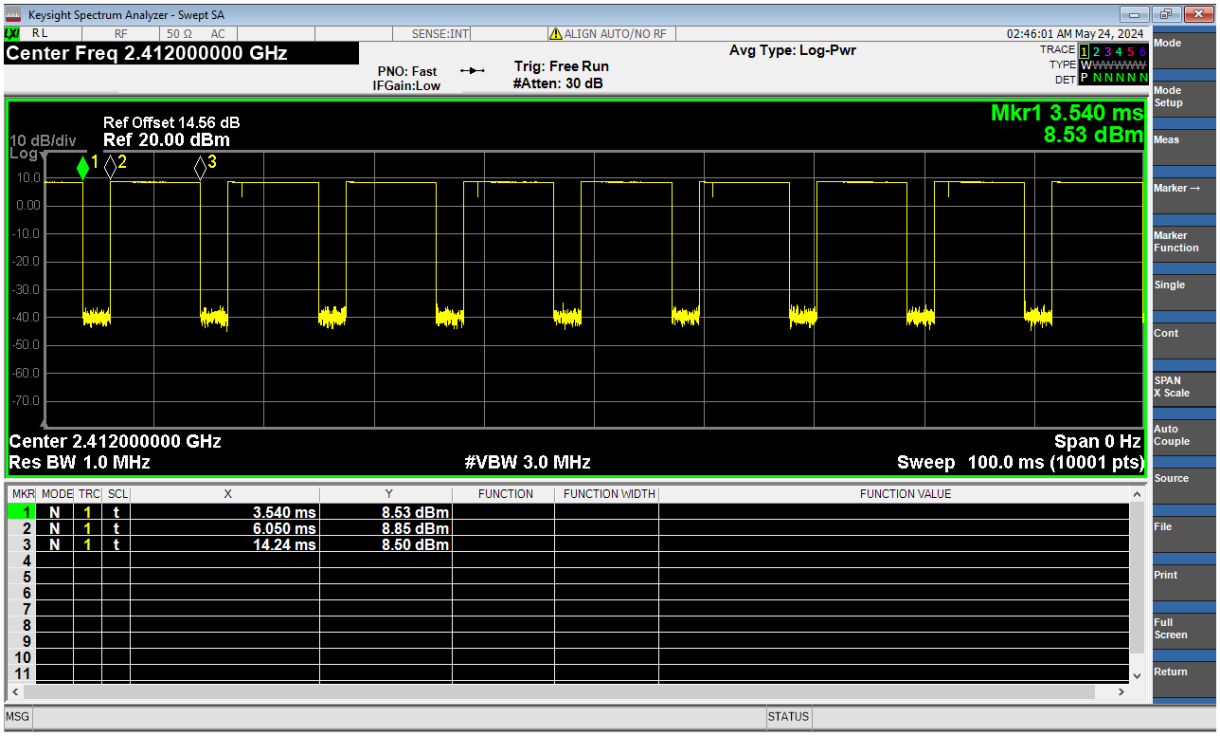
Duty Cycle NVNT ax(VHT40) 2437MHz Sum



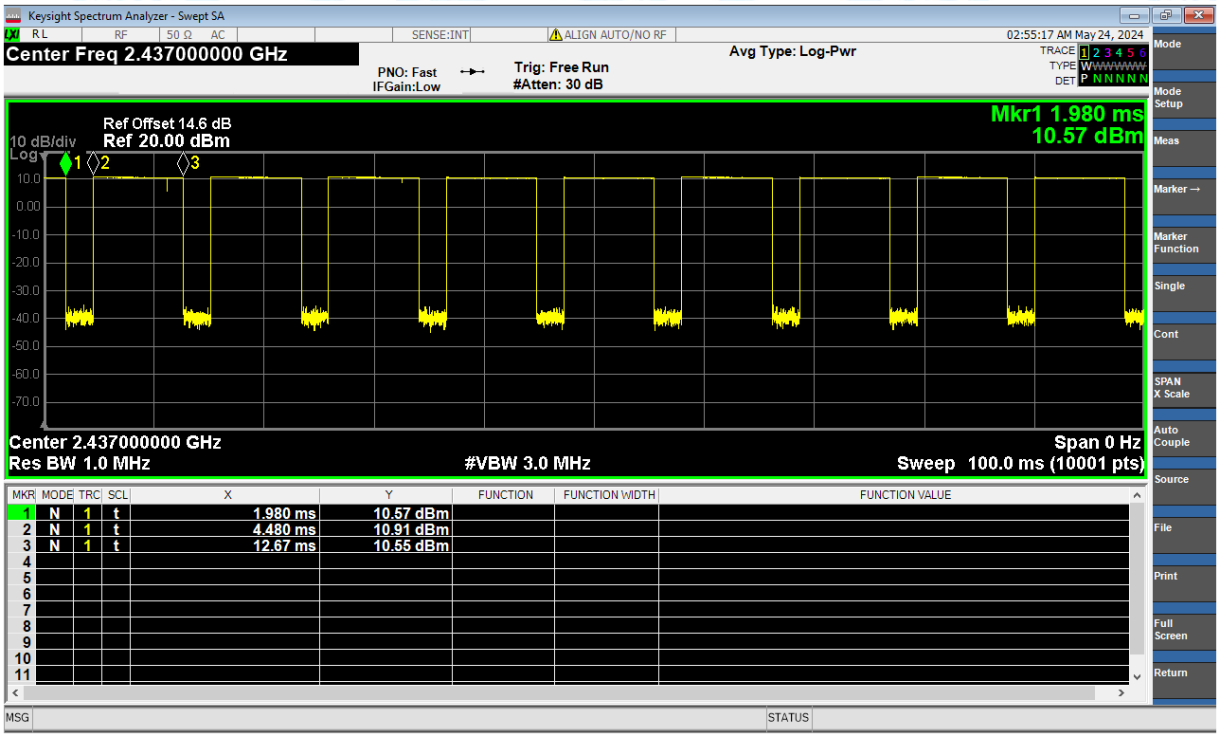
Duty Cycle NVNT ax(VHT40) 2452MHz Sum



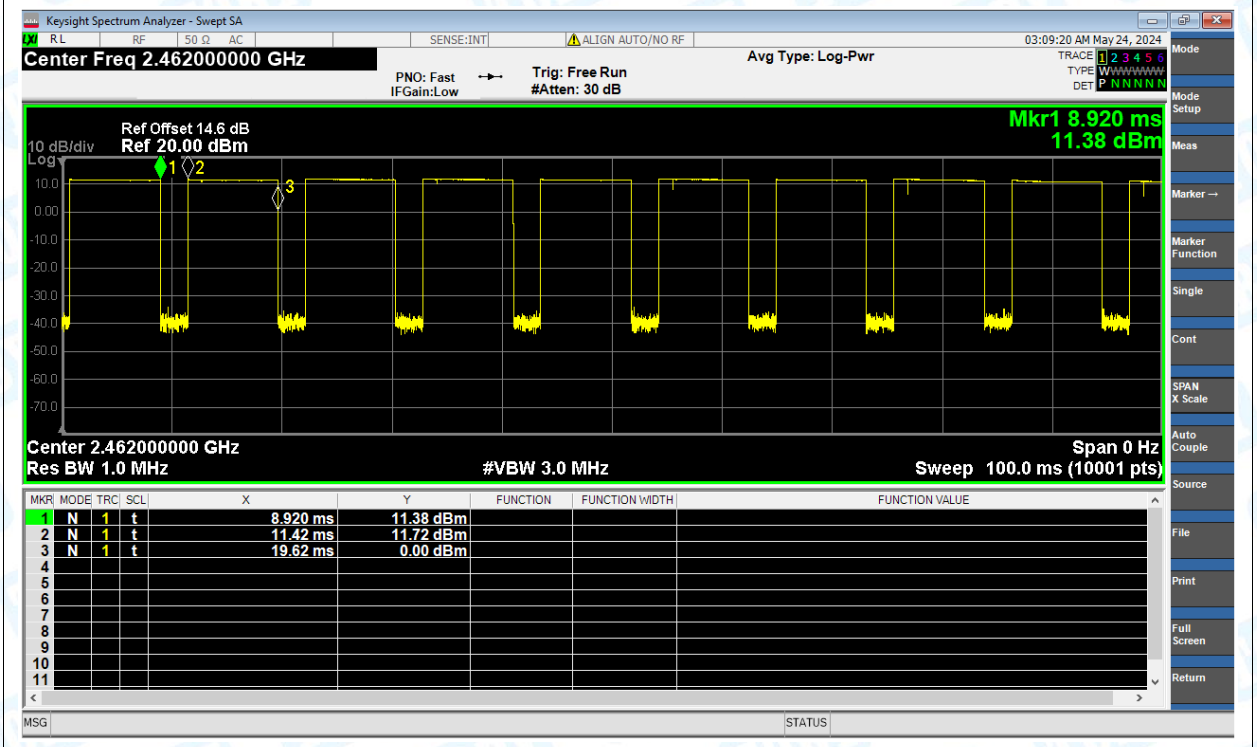
Duty Cycle NVNT b 2412MHz Sum



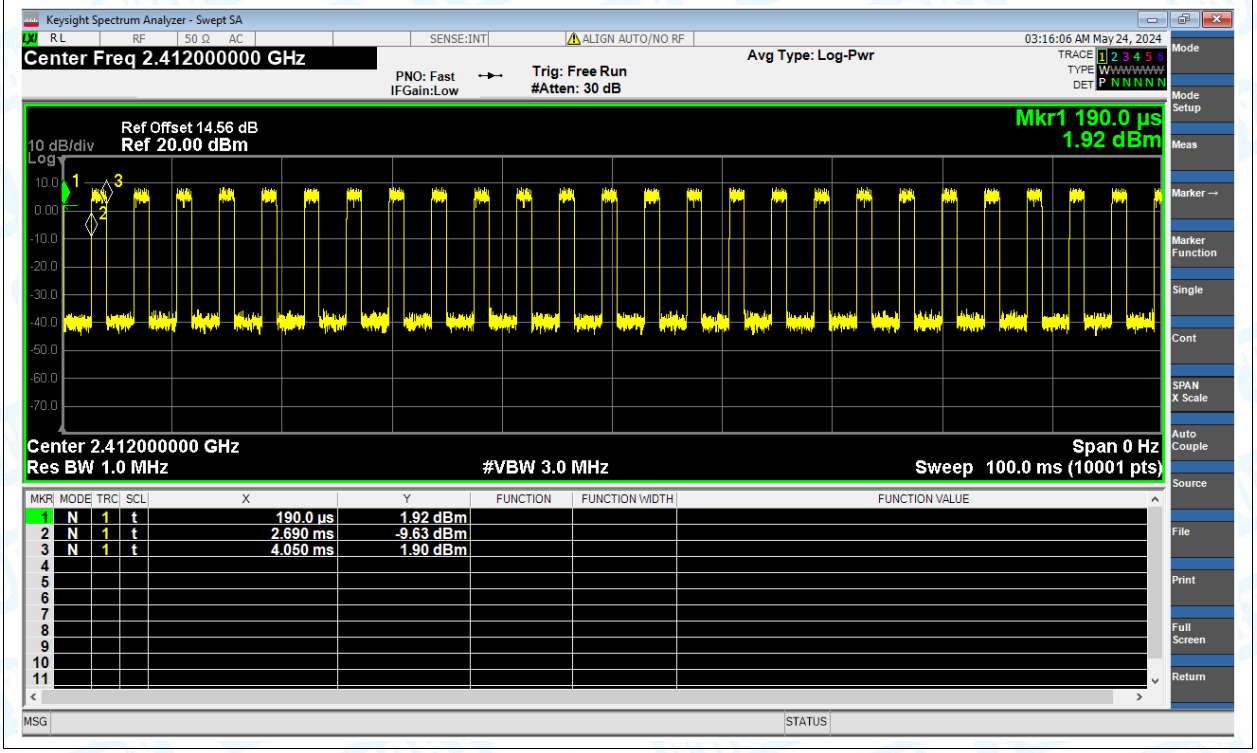
Duty Cycle NVNT b 2437MHz Sum



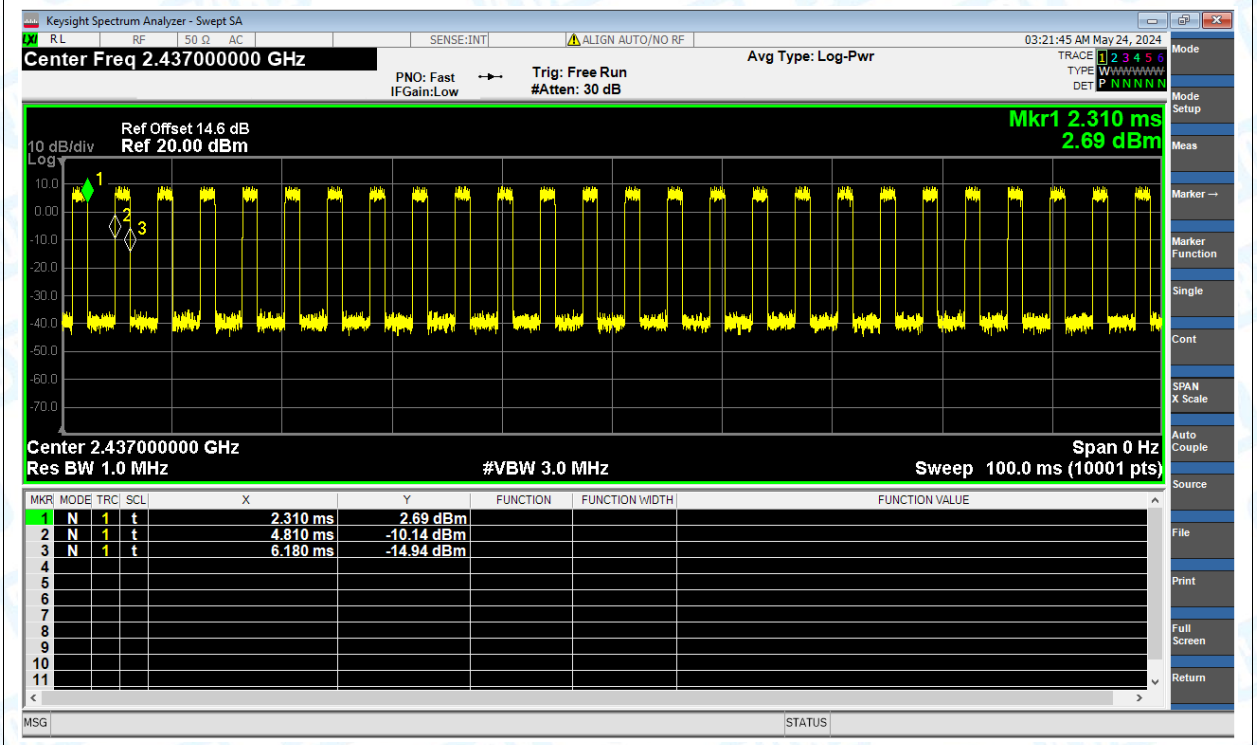
Duty Cycle NVNT b 2462MHz Sum



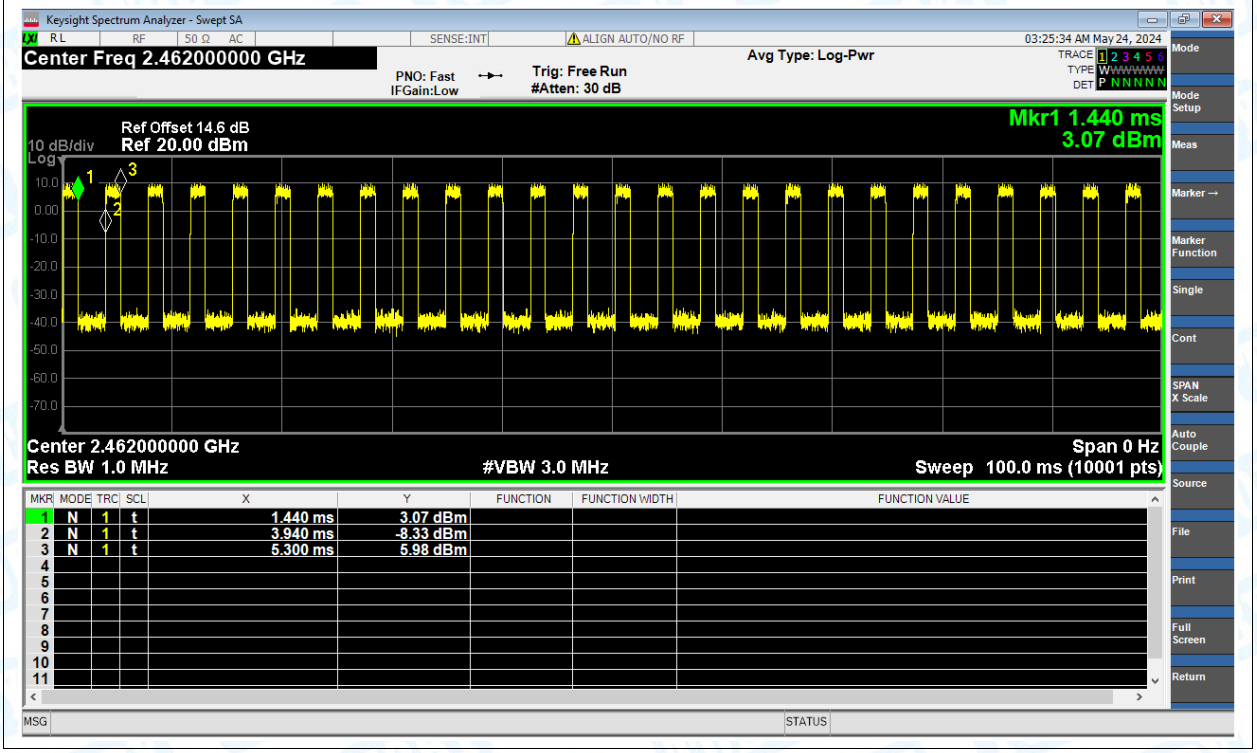
Duty Cycle NVNT g 2412MHz Sum



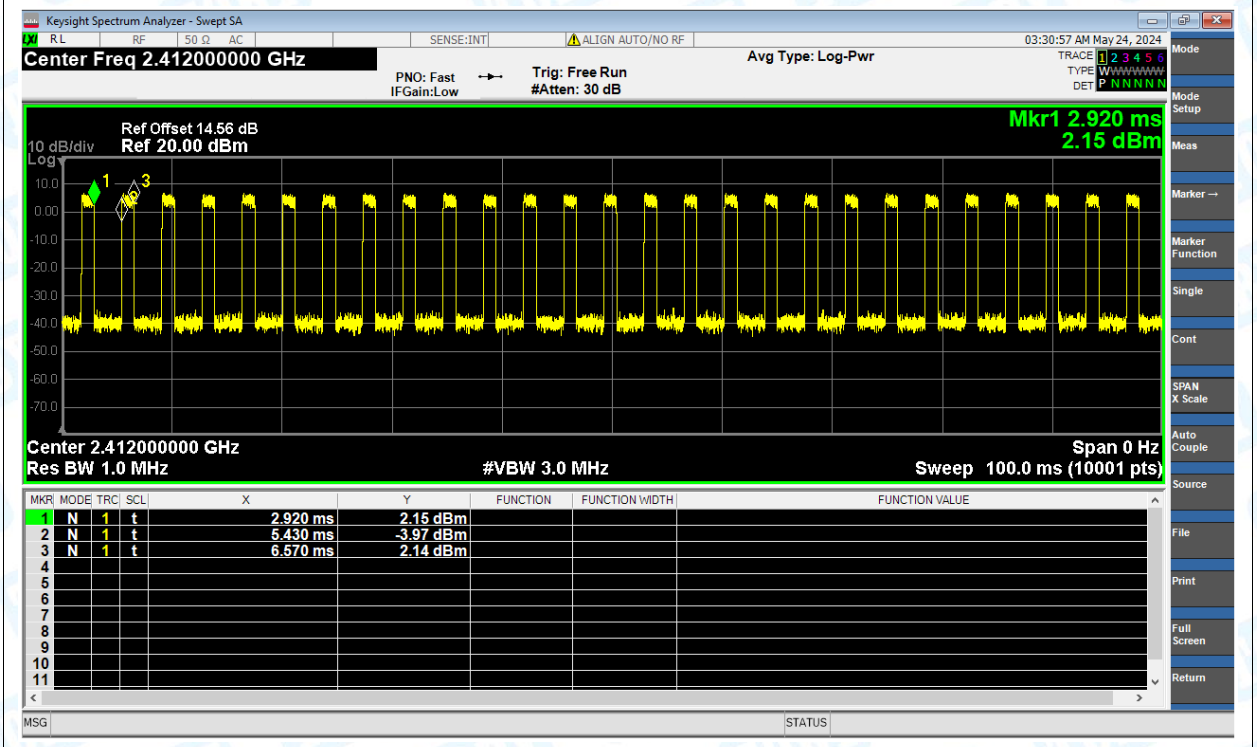
Duty Cycle NVNT g 2437MHz Sum



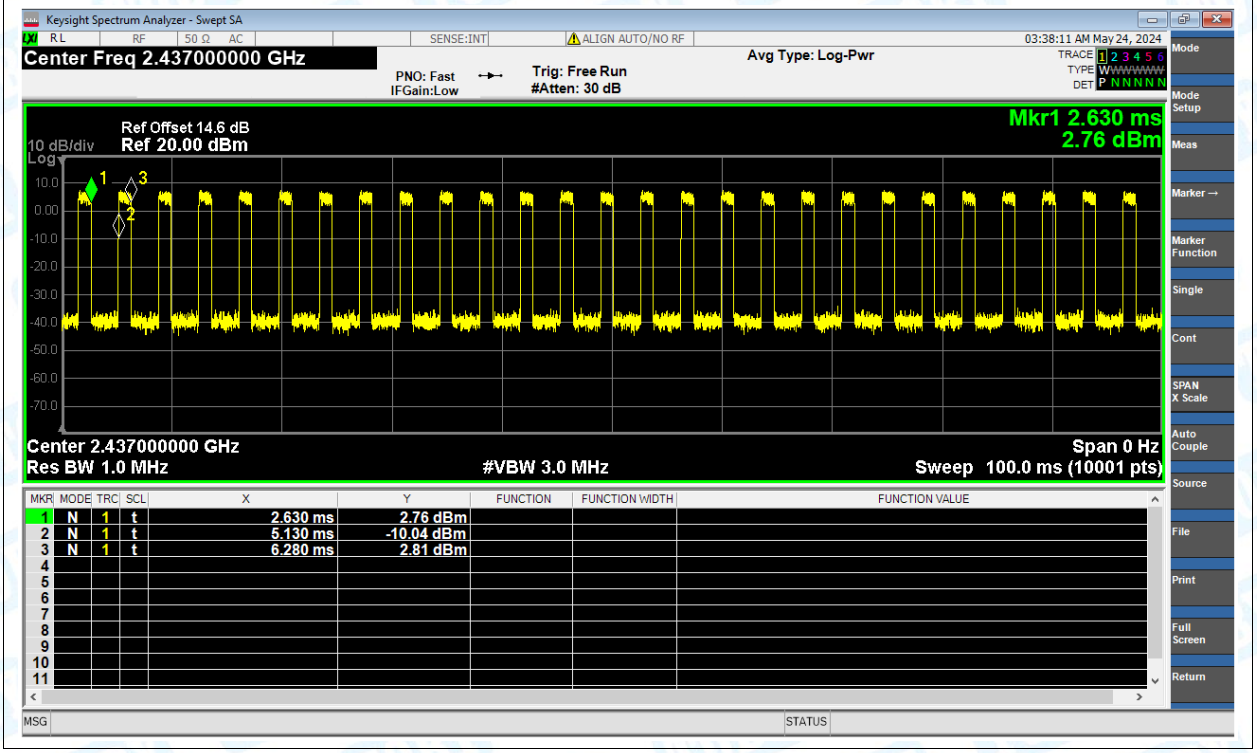
Duty Cycle NVNT g 2462MHz Sum



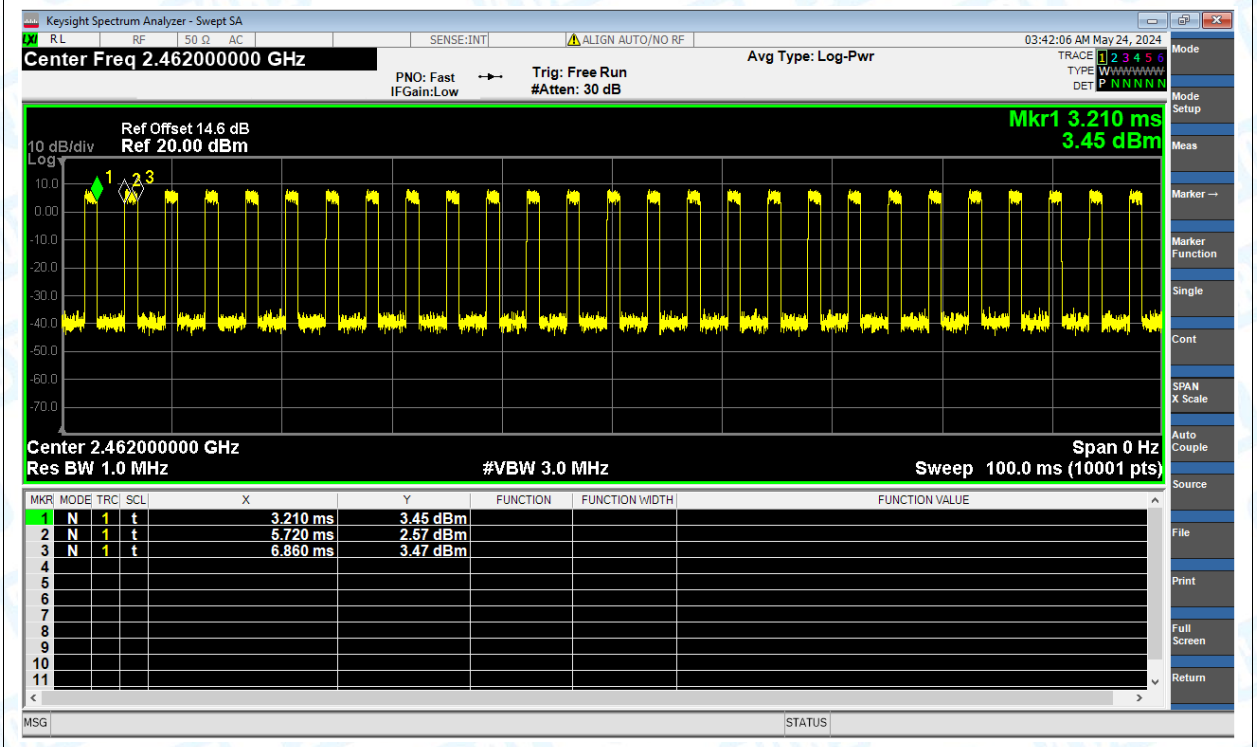
Duty Cycle NVNT n(HT20) 2412MHz Sum



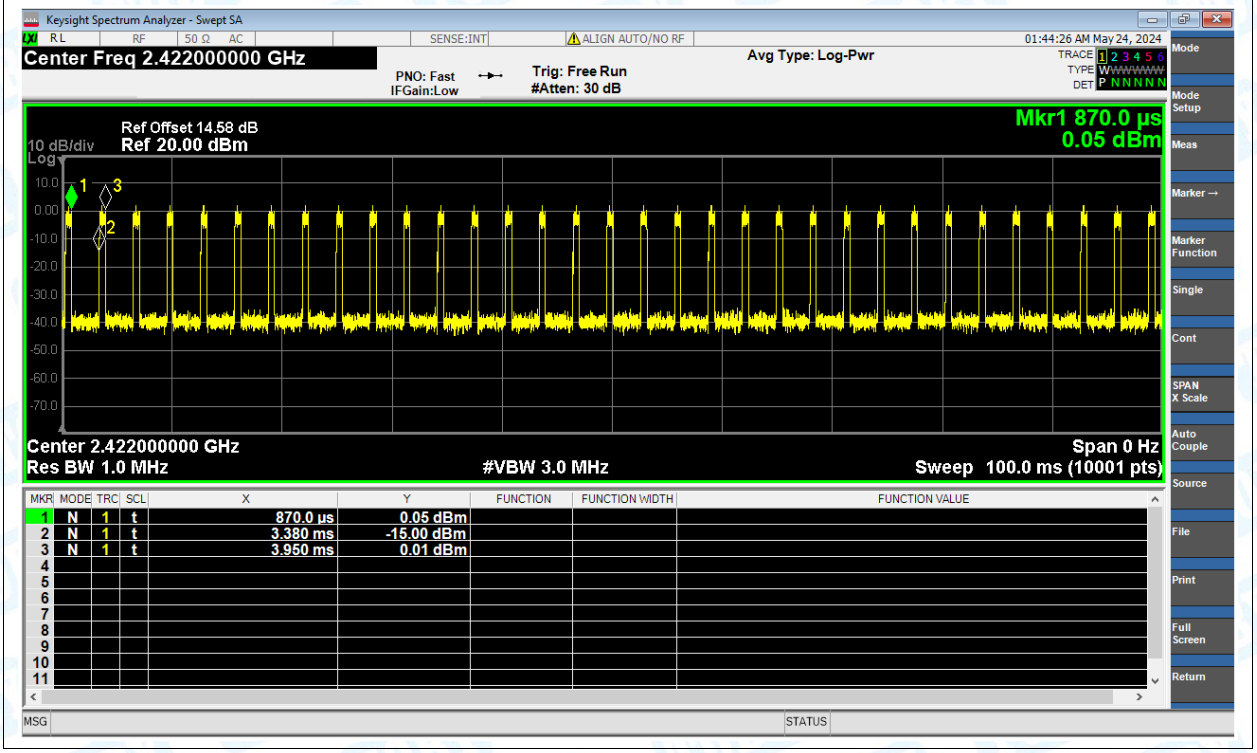
Duty Cycle NVNT n(HT20) 2437MHz Sum



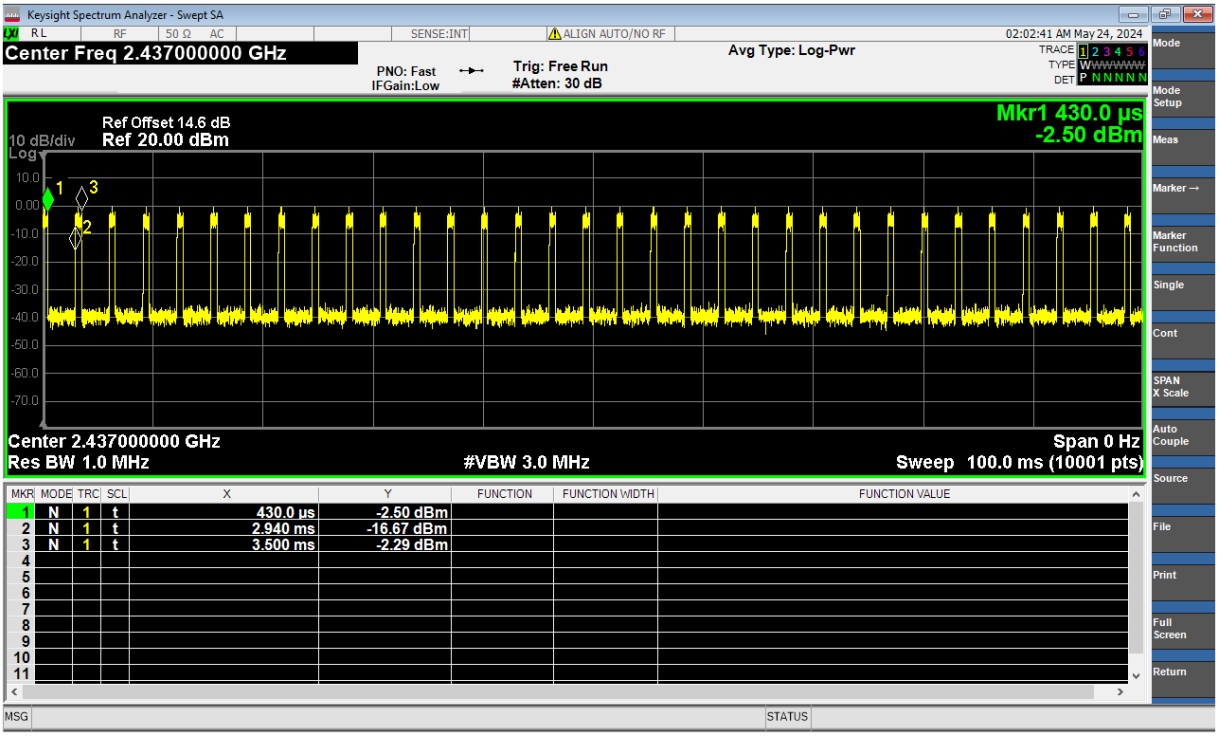
Duty Cycle NVNT n(HT20) 2462MHz Sum



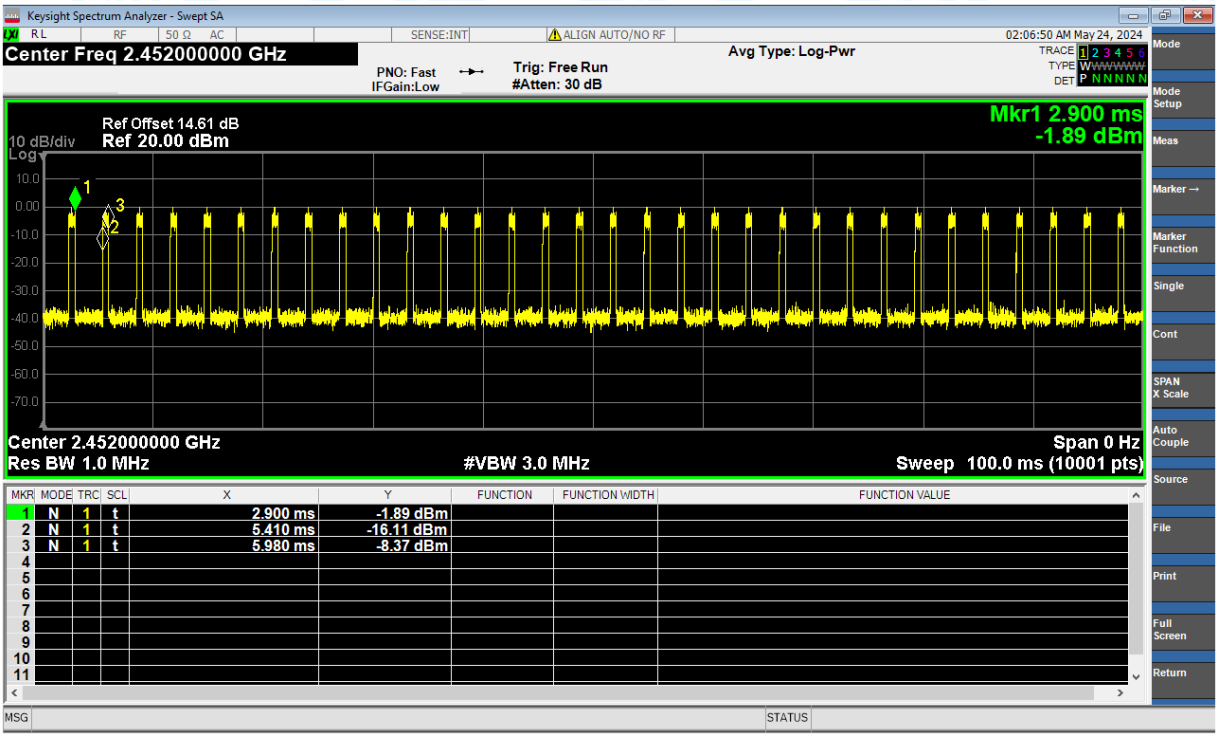
Duty Cycle NVNT n(HT40) 2422MHz Sum



Duty Cycle NVNT n(HT40) 2437MHz Sum



Duty Cycle NVNT n(HT40) 2452MHz Sum



2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	15.94	30	Pass
NVNT	ax(VHT20)	2412	Ant2	17.43	30	Pass
NVNT	ax(VHT20)	2412	Sum	19.759	30	Pass
NVNT	ax(VHT20)	2437	Ant1	16.28	30	Pass
NVNT	ax(VHT20)	2437	Ant2	17.52	30	Pass
NVNT	ax(VHT20)	2437	Sum	19.954	30	Pass
NVNT	ax(VHT20)	2462	Ant1	16.56	30	Pass
NVNT	ax(VHT20)	2462	Ant2	16.8	30	Pass
NVNT	ax(VHT20)	2462	Sum	19.692	30	Pass
NVNT	ax(VHT40)	2422	Ant1	16.78	30	Pass
NVNT	ax(VHT40)	2422	Ant2	18.18	30	Pass
NVNT	ax(VHT40)	2422	Sum	20.546	30	Pass
NVNT	ax(VHT40)	2437	Ant1	16.82	30	Pass
NVNT	ax(VHT40)	2437	Ant2	17.91	30	Pass
NVNT	ax(VHT40)	2437	Sum	20.409	30	Pass
NVNT	ax(VHT40)	2452	Ant1	17.07	30	Pass
NVNT	ax(VHT40)	2452	Ant2	17.6	30	Pass
NVNT	ax(VHT40)	2452	Sum	20.353	30	Pass
NVNT	b	2412	Ant1	18.29	30	Pass
NVNT	b	2412	Ant2	19.54	30	Pass
NVNT	b	2412	Sum	21.97	30	Pass
NVNT	b	2437	Ant1	18.8	30	Pass
NVNT	b	2437	Ant2	19.7	30	Pass
NVNT	b	2437	Sum	22.284	30	Pass
NVNT	b	2462	Ant1	19.1	30	Pass
NVNT	b	2462	Ant2	19.12	30	Pass
NVNT	b	2462	Sum	22.12	30	Pass
NVNT	g	2412	Ant1	17.23	30	Pass
NVNT	g	2412	Ant2	18.87	30	Pass
NVNT	g	2412	Sum	21.137	30	Pass
NVNT	g	2437	Ant1	17.77	30	Pass
NVNT	g	2437	Ant2	19.18	30	Pass
NVNT	g	2437	Sum	21.542	30	Pass
NVNT	g	2462	Ant1	18.13	30	Pass
NVNT	g	2462	Ant2	18.46	30	Pass
NVNT	g	2462	Sum	21.308	30	Pass
NVNT	n(HT20)	2412	Ant1	17.07	30	Pass
NVNT	n(HT20)	2412	Ant2	18.58	30	Pass
NVNT	n(HT20)	2412	Sum	20.901	30	Pass
NVNT	n(HT20)	2437	Ant1	17.45	30	Pass
NVNT	n(HT20)	2437	Ant2	18.57	30	Pass
NVNT	n(HT20)	2437	Sum	21.056	30	Pass

NVNT	n(HT20)	2462	Ant1	17.77	30	Pass
NVNT	n(HT20)	2462	Ant2	18.1	30	Pass
NVNT	n(HT20)	2462	Sum	20.948	30	Pass
NVNT	n(HT40)	2422	Ant1	15.86	30	Pass
NVNT	n(HT40)	2422	Ant2	17.24	30	Pass
NVNT	n(HT40)	2422	Sum	19.615	30	Pass
NVNT	n(HT40)	2437	Ant1	16.46	30	Pass
NVNT	n(HT40)	2437	Ant2	17.43	30	Pass
NVNT	n(HT40)	2437	Sum	19.982	30	Pass
NVNT	n(HT40)	2452	Ant1	16.53	30	Pass
NVNT	n(HT40)	2452	Ant2	17.01	30	Pass
NVNT	n(HT40)	2452	Sum	19.787	30	Pass

Note：The Duty Cycle Factor is compensated in the graph.

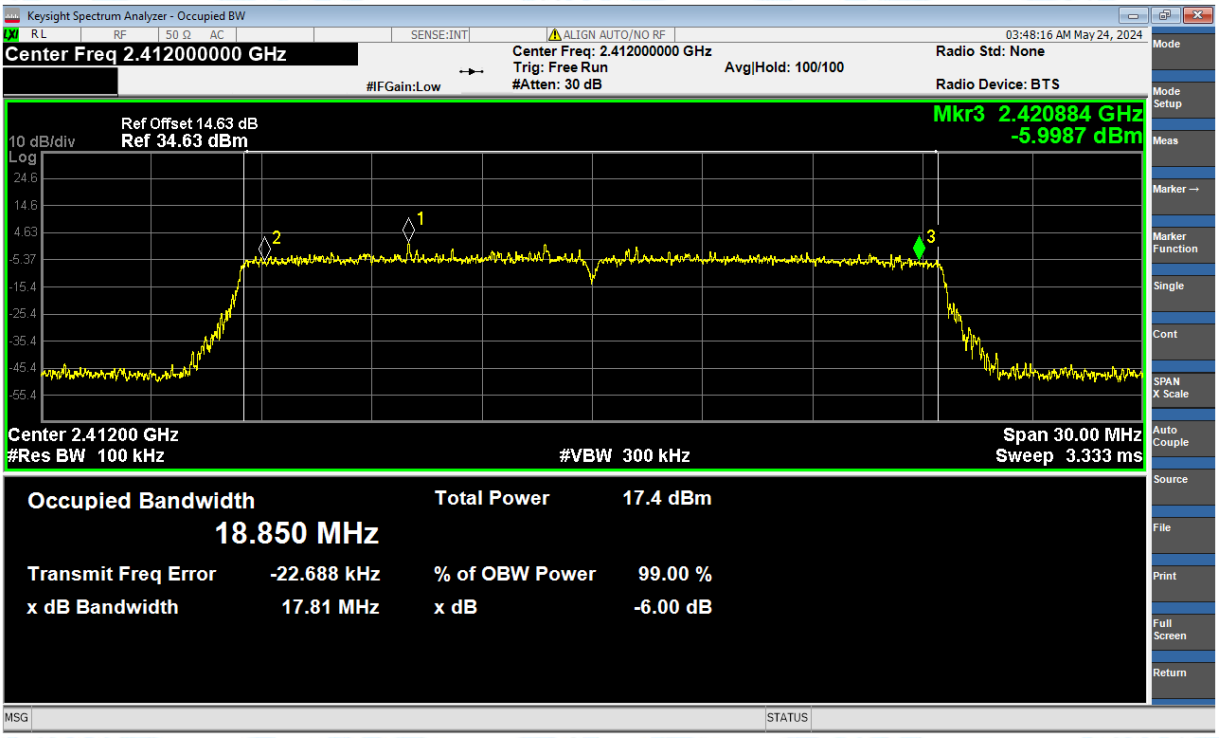
3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	18.2	0.5	Pass
NVNT	ax(VHT20)	2412	Ant2	17.81	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	18.81	0.5	Pass
NVNT	ax(VHT20)	2437	Ant2	17.88	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.23	0.5	Pass
NVNT	ax(VHT20)	2462	Ant2	17.99	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	37.39	0.5	Pass
NVNT	ax(VHT40)	2422	Ant2	37.65	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	36.99	0.5	Pass
NVNT	ax(VHT40)	2437	Ant2	37.95	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	37.8	0.5	Pass
NVNT	ax(VHT40)	2452	Ant2	36.59	0.5	Pass
NVNT	b	2412	Ant1	11.06	0.5	Pass
NVNT	b	2412	Ant2	12.02	0.5	Pass
NVNT	b	2437	Ant1	11.07	0.5	Pass
NVNT	b	2437	Ant2	10.12	0.5	Pass
NVNT	b	2462	Ant1	10.12	0.5	Pass
NVNT	b	2462	Ant2	11.07	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2412	Ant2	16.31	0.5	Pass
NVNT	g	2437	Ant1	16.31	0.5	Pass
NVNT	g	2437	Ant2	16.3	0.5	Pass
NVNT	g	2462	Ant1	16.31	0.5	Pass
NVNT	g	2462	Ant2	16.3	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.54	0.5	Pass
NVNT	n(HT20)	2412	Ant2	16.96	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.69	0.5	Pass
NVNT	n(HT20)	2437	Ant2	17.39	0.5	Pass
NVNT	n(HT20)	2462	Ant1	16.99	0.5	Pass
NVNT	n(HT20)	2462	Ant2	17.11	0.5	Pass
NVNT	n(HT40)	2422	Ant1	28.78	0.5	Pass
NVNT	n(HT40)	2422	Ant2	30.08	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.23	0.5	Pass
NVNT	n(HT40)	2437	Ant2	36.43	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.24	0.5	Pass
NVNT	n(HT40)	2452	Ant2	36.16	0.5	Pass

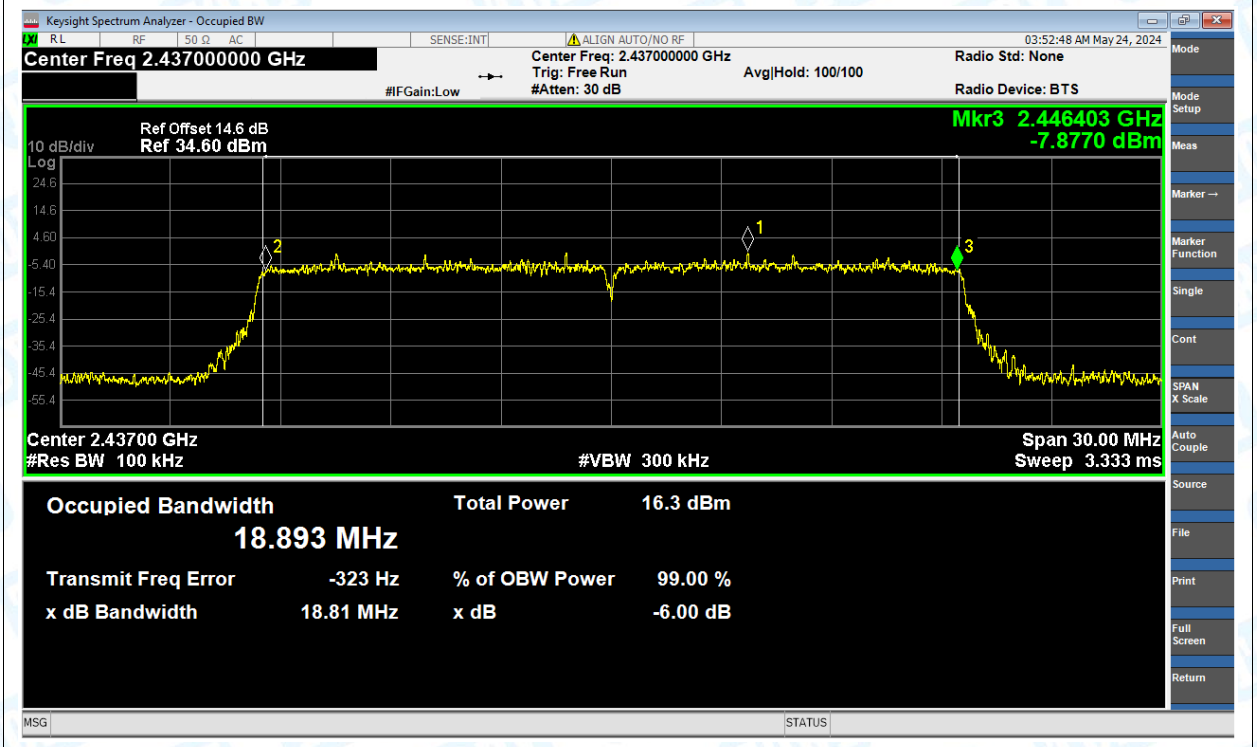
Test Graphs

-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1

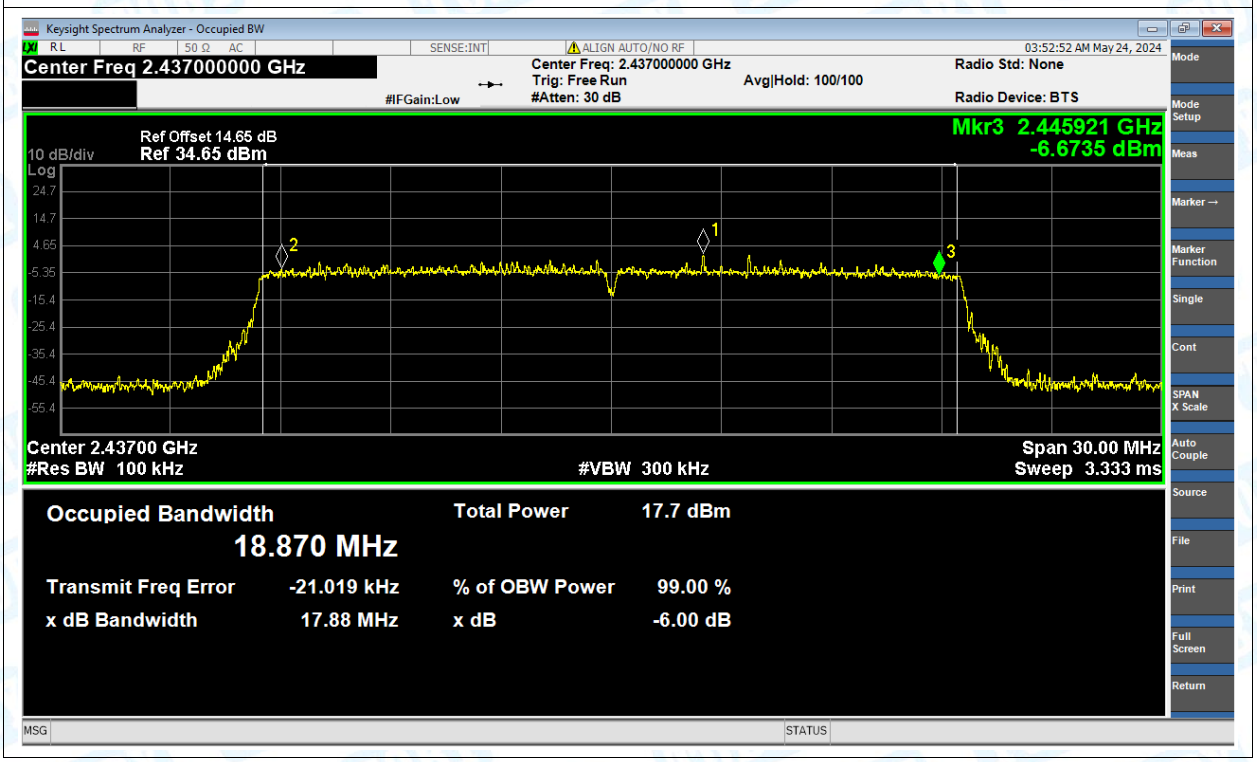
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant2



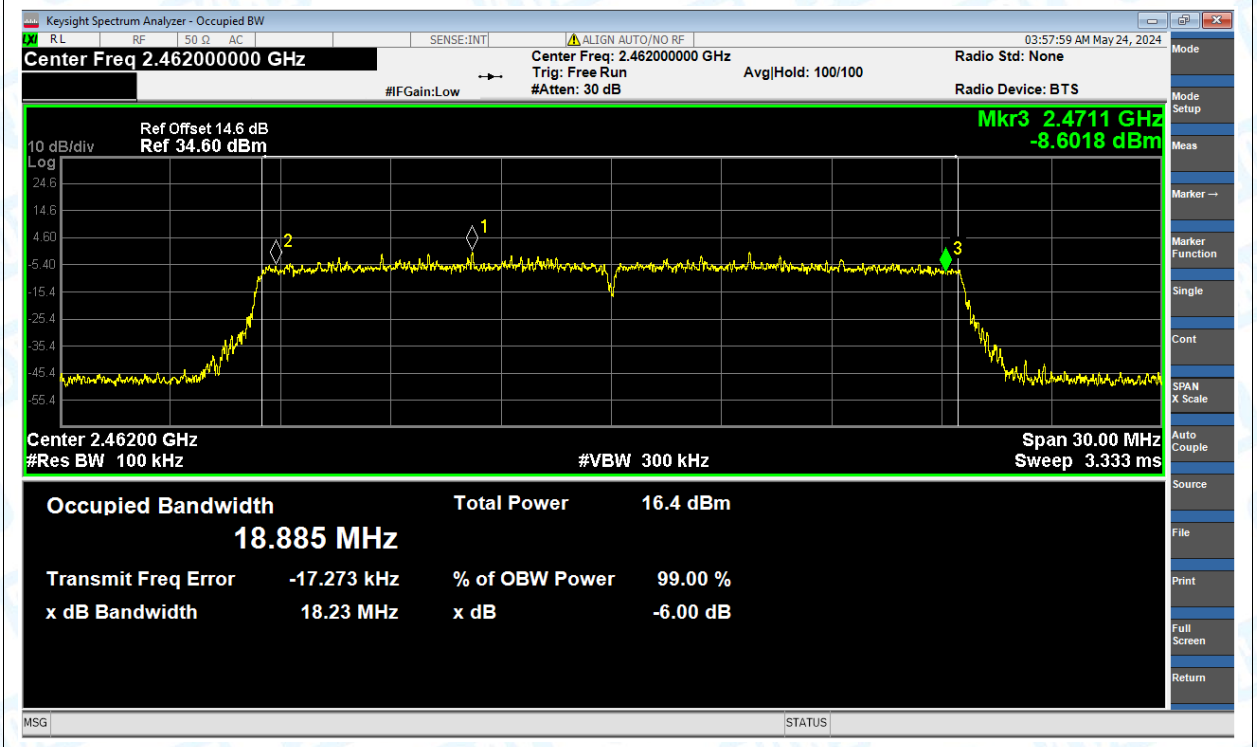
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



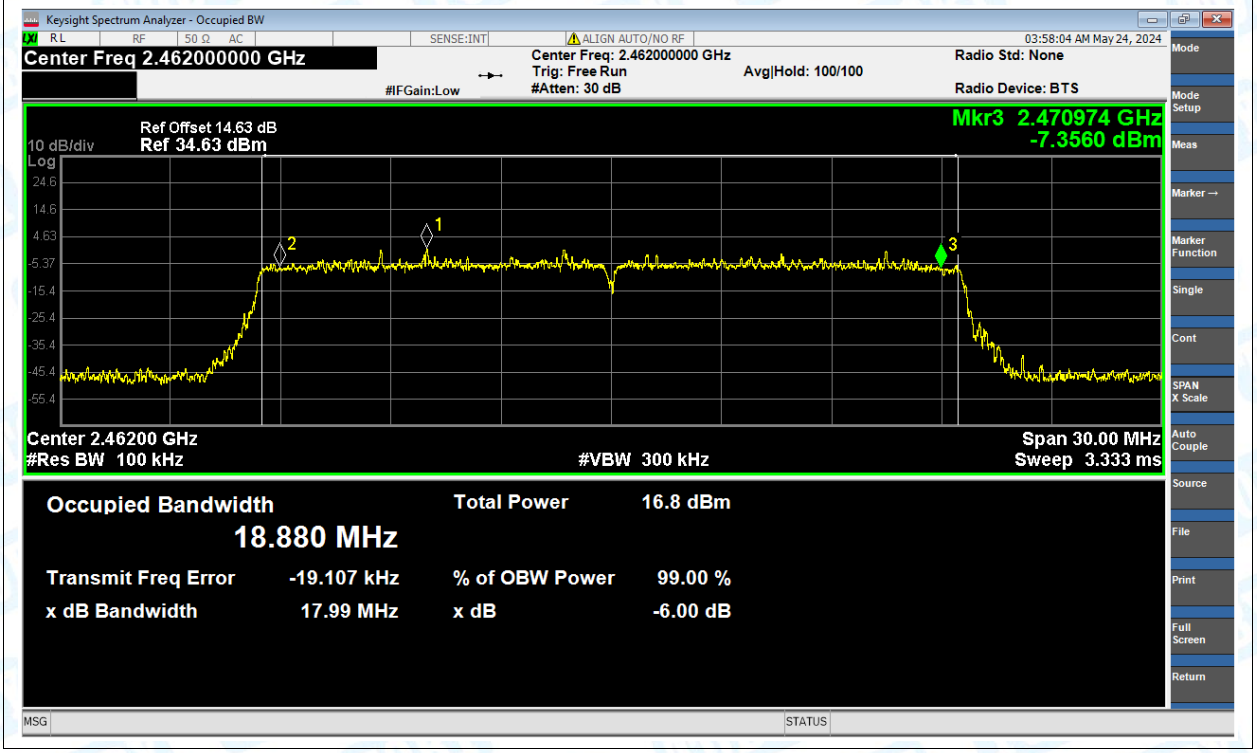
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant2



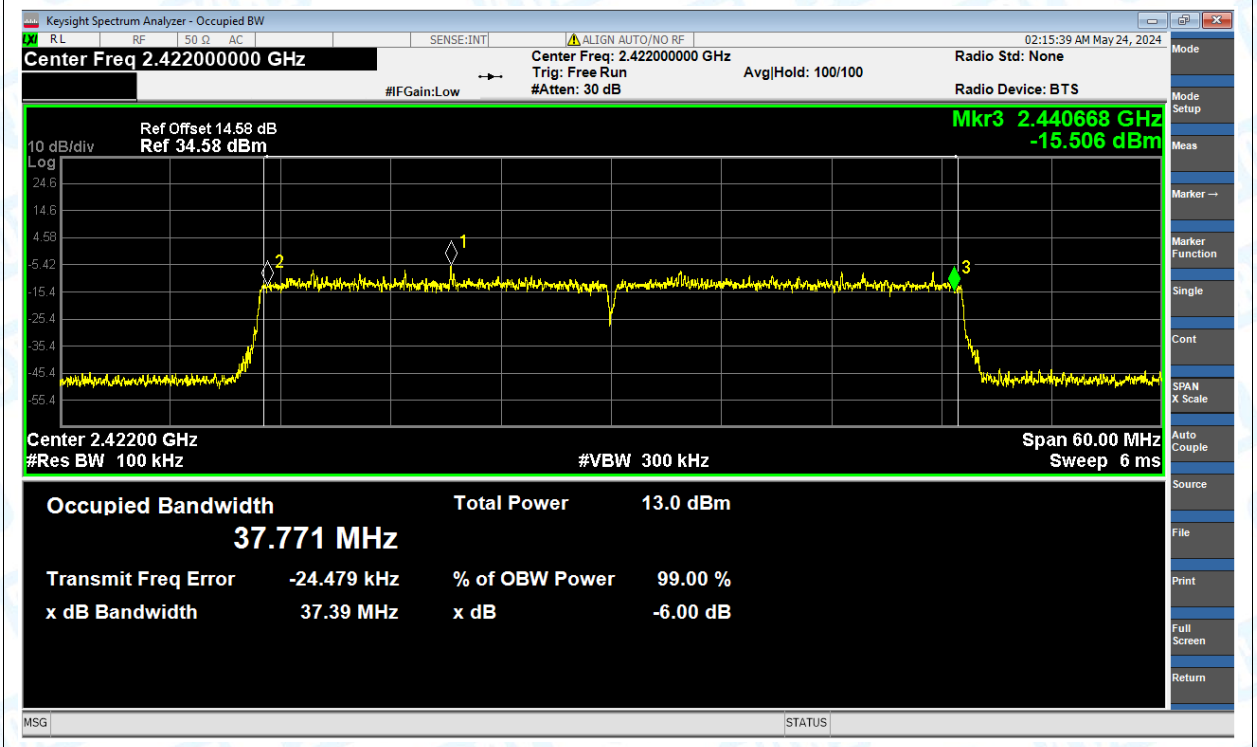
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



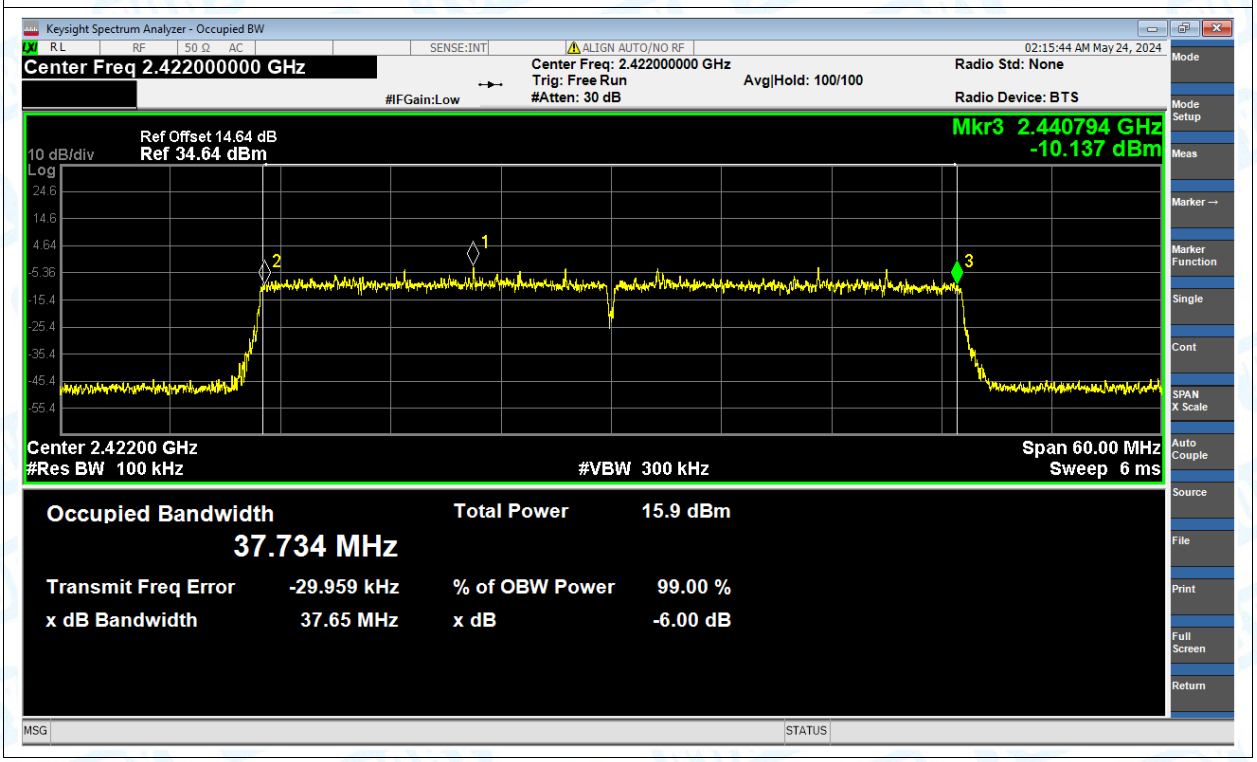
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant2



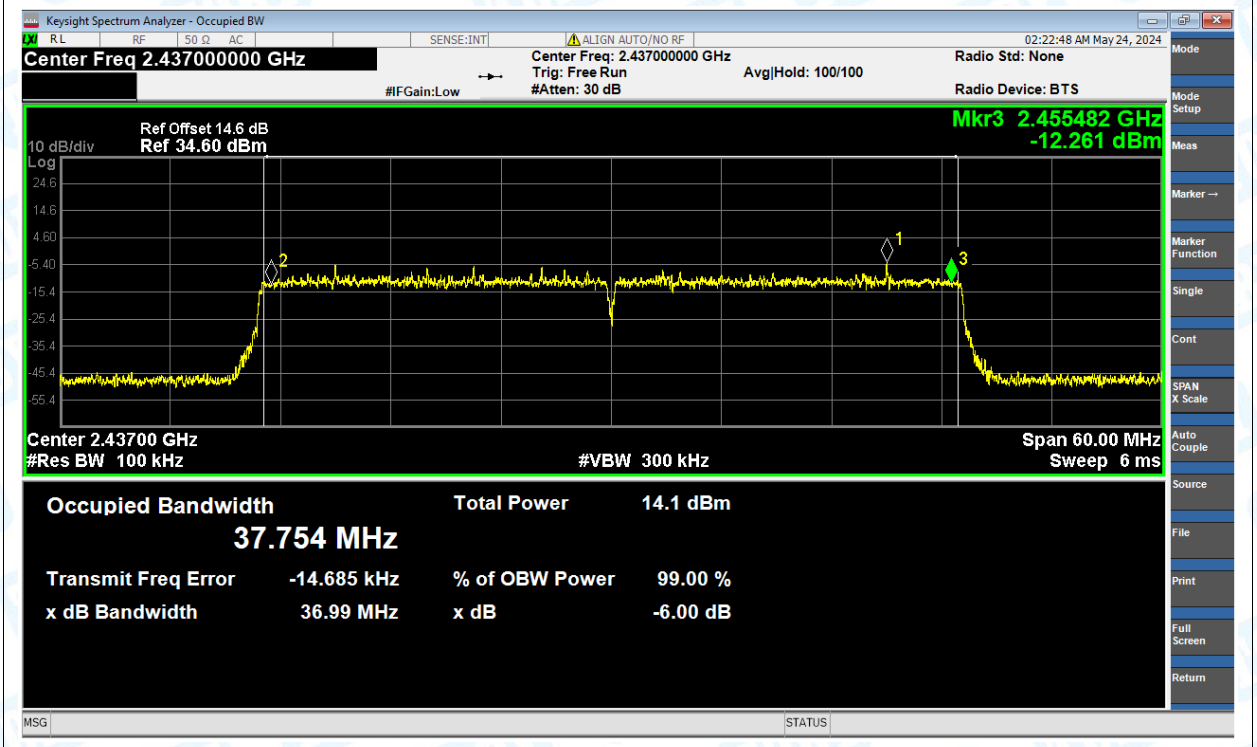
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



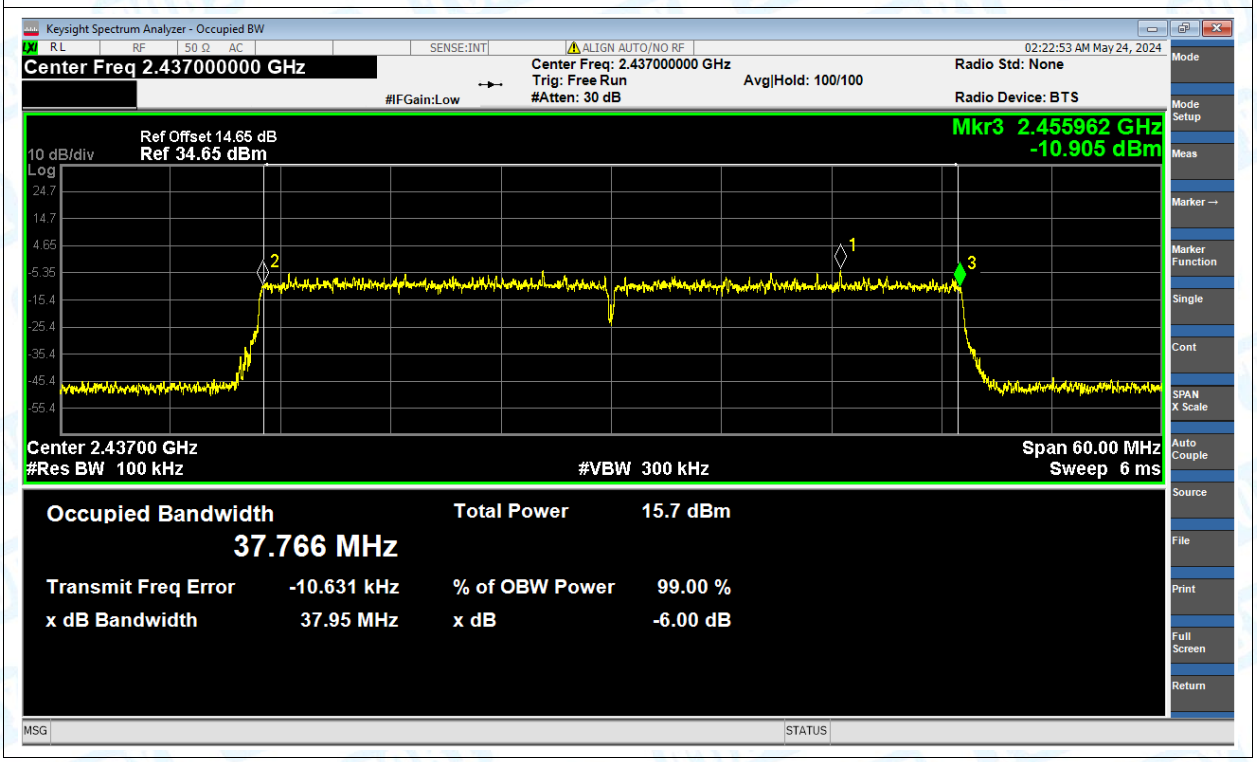
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant2



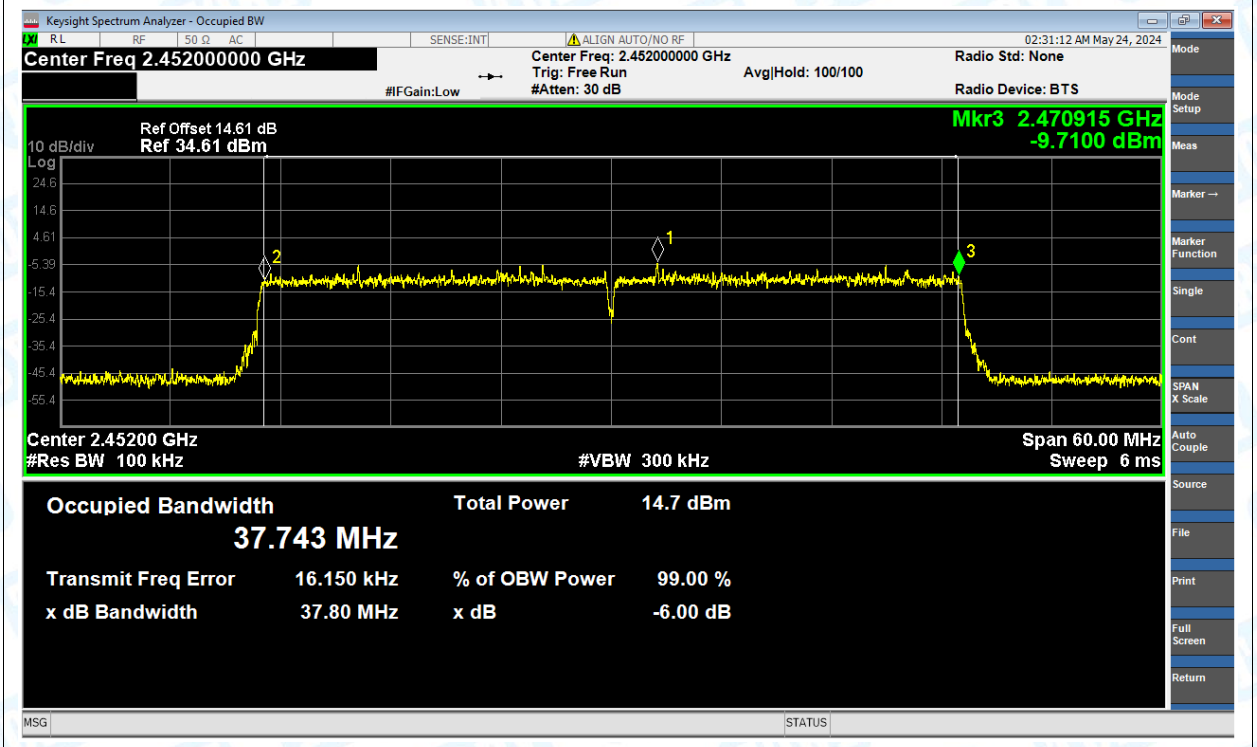
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



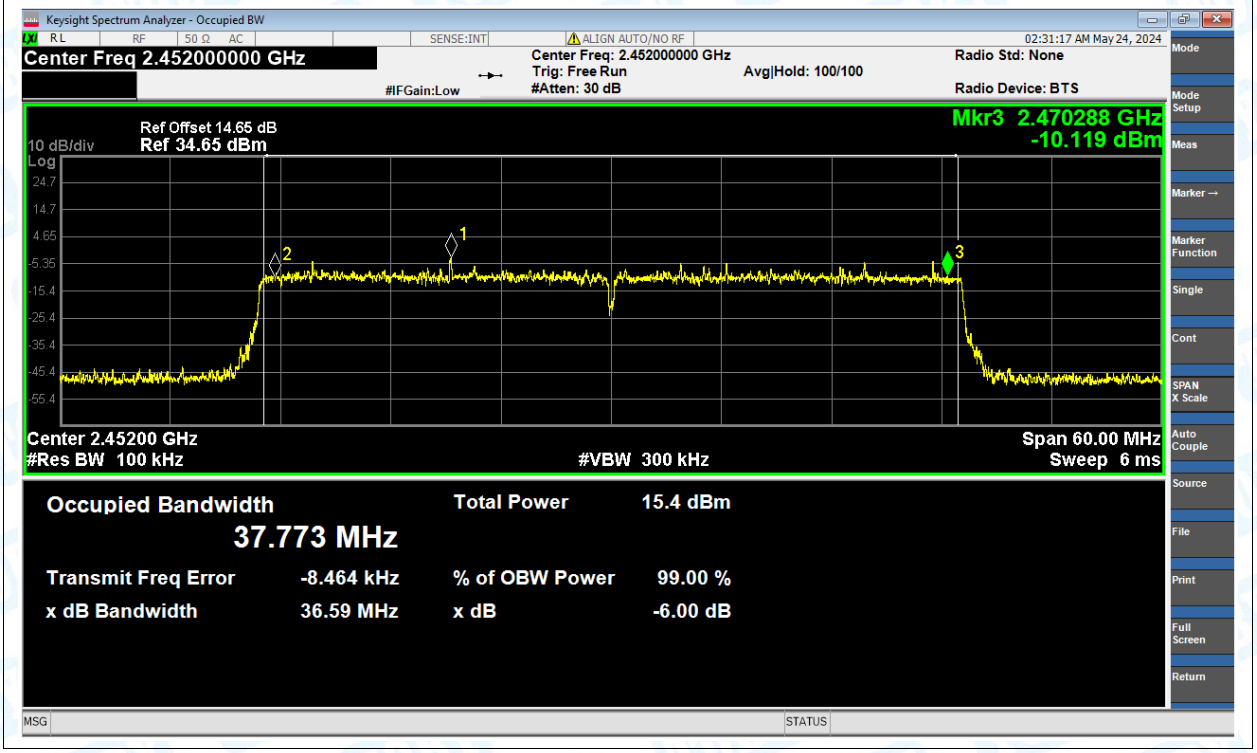
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant2



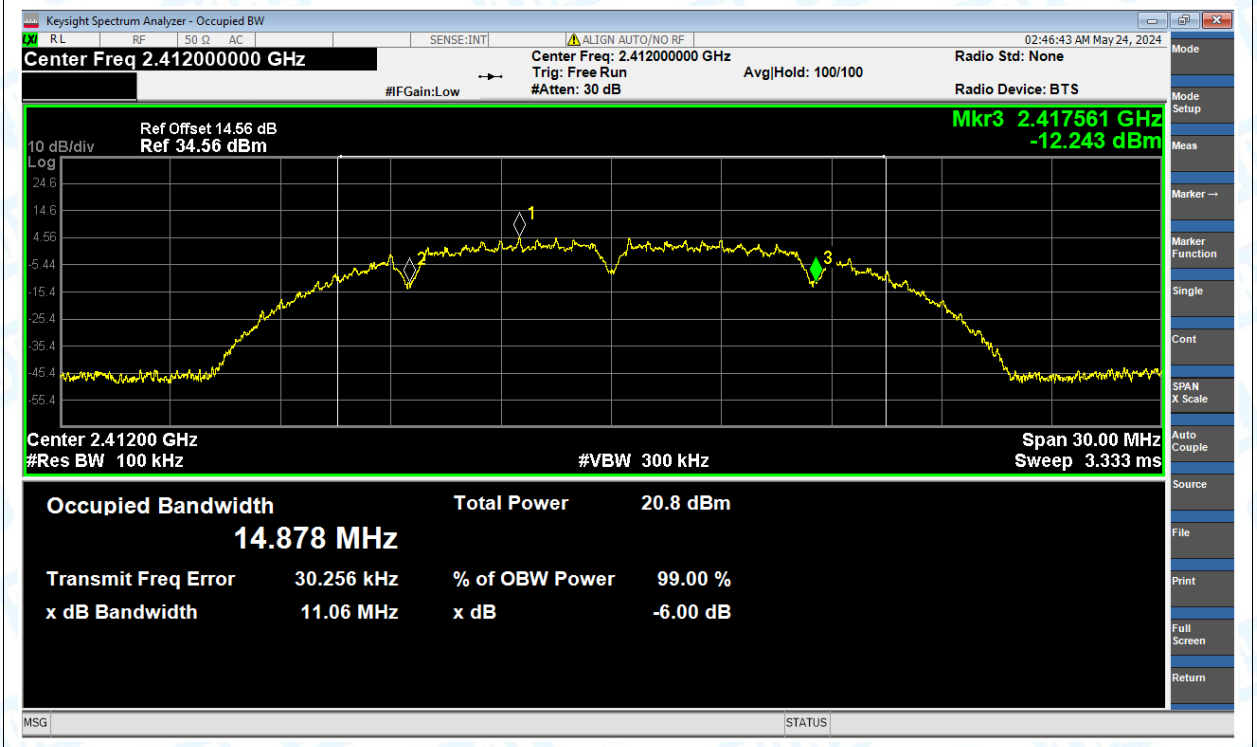
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



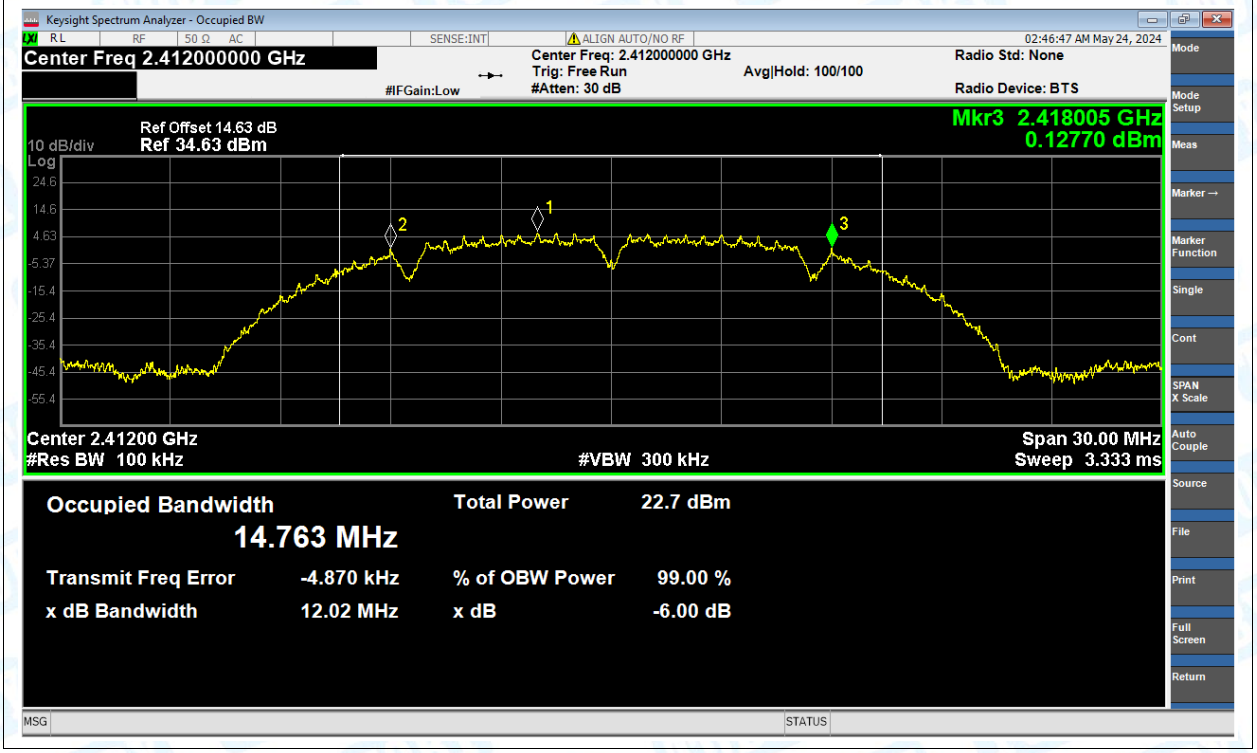
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant2



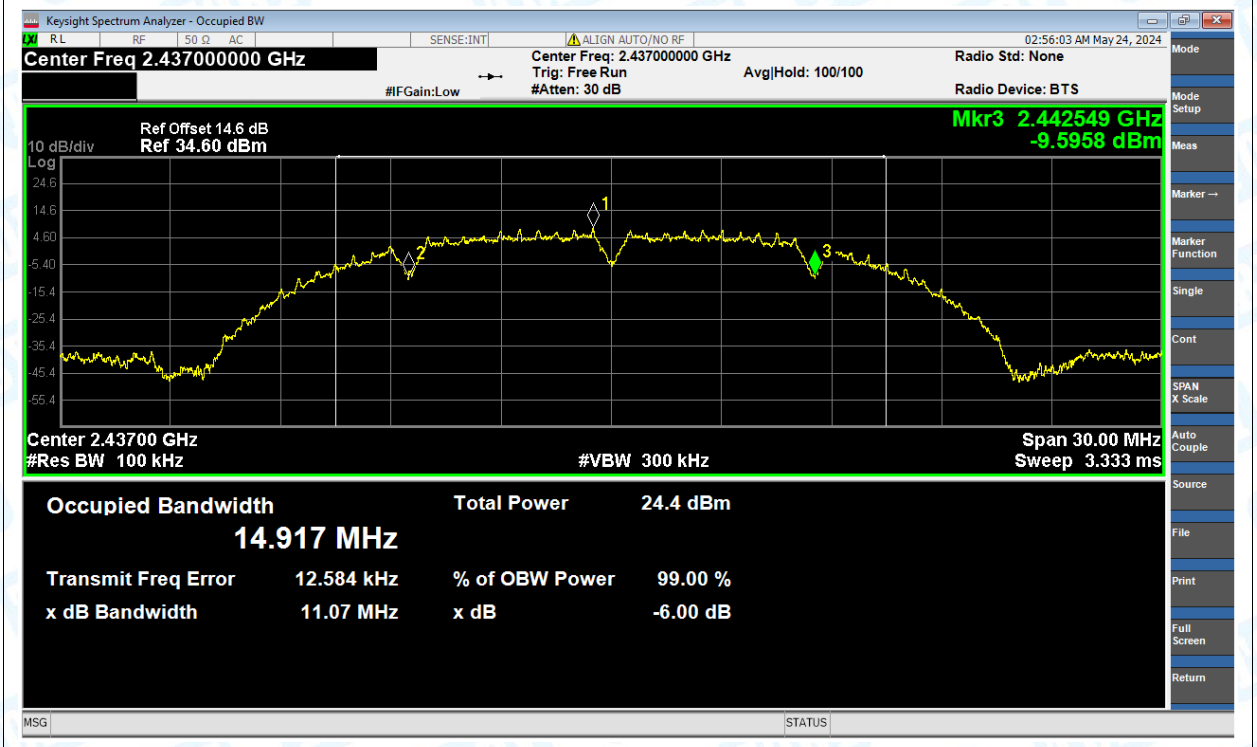
-6dB Bandwidth NVNT b 2412MHz Ant1



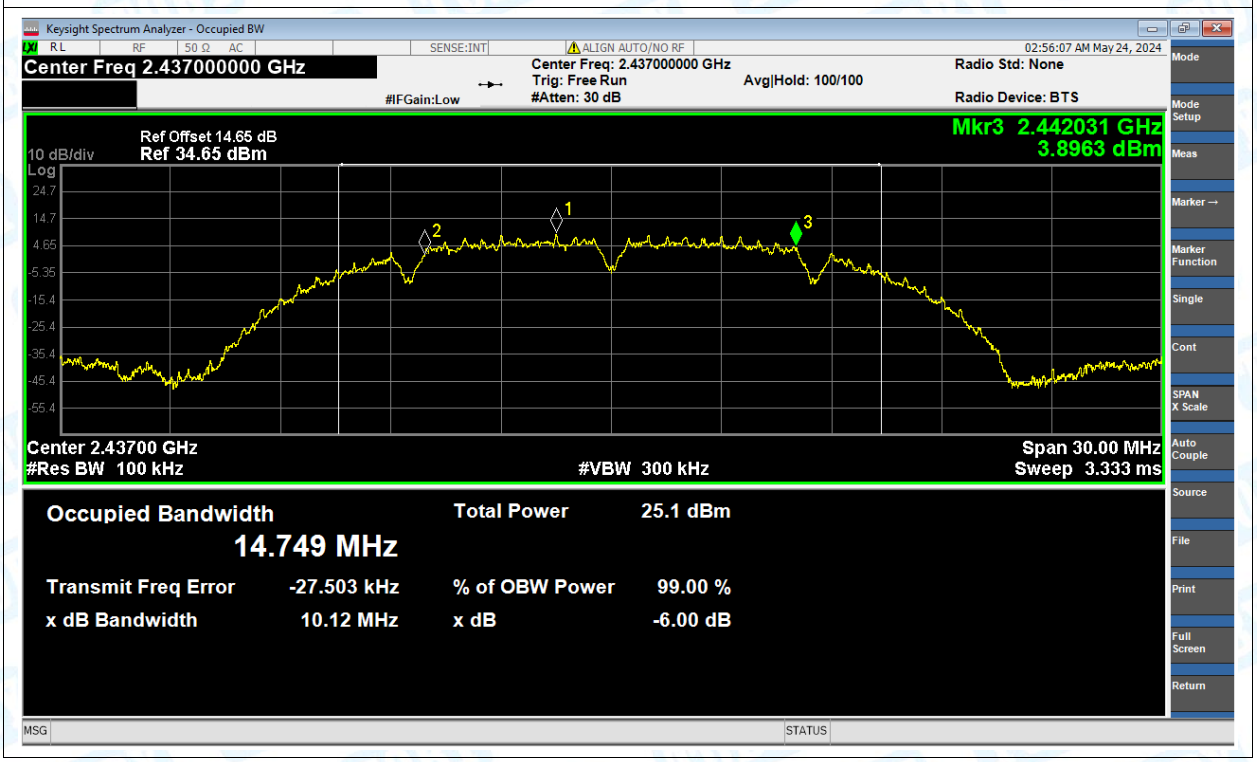
-6dB Bandwidth NVNT b 2412MHz Ant2



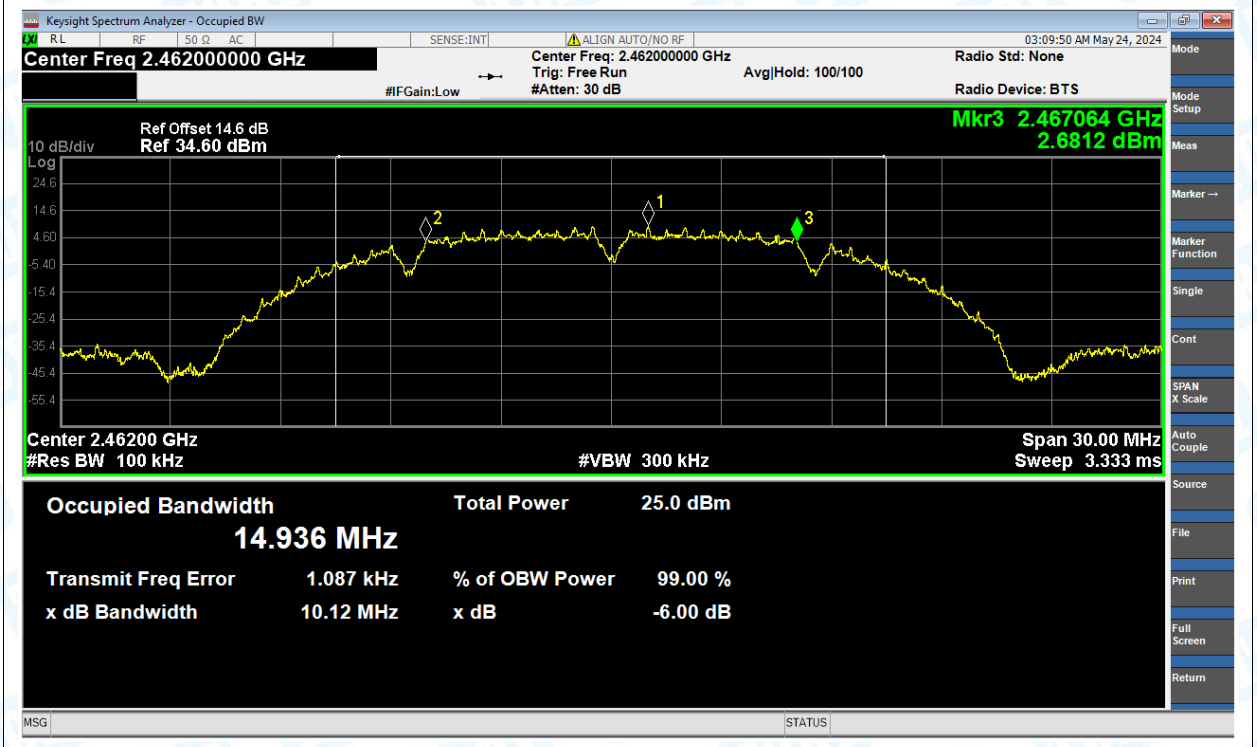
-6dB Bandwidth NVNT b 2437MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant2

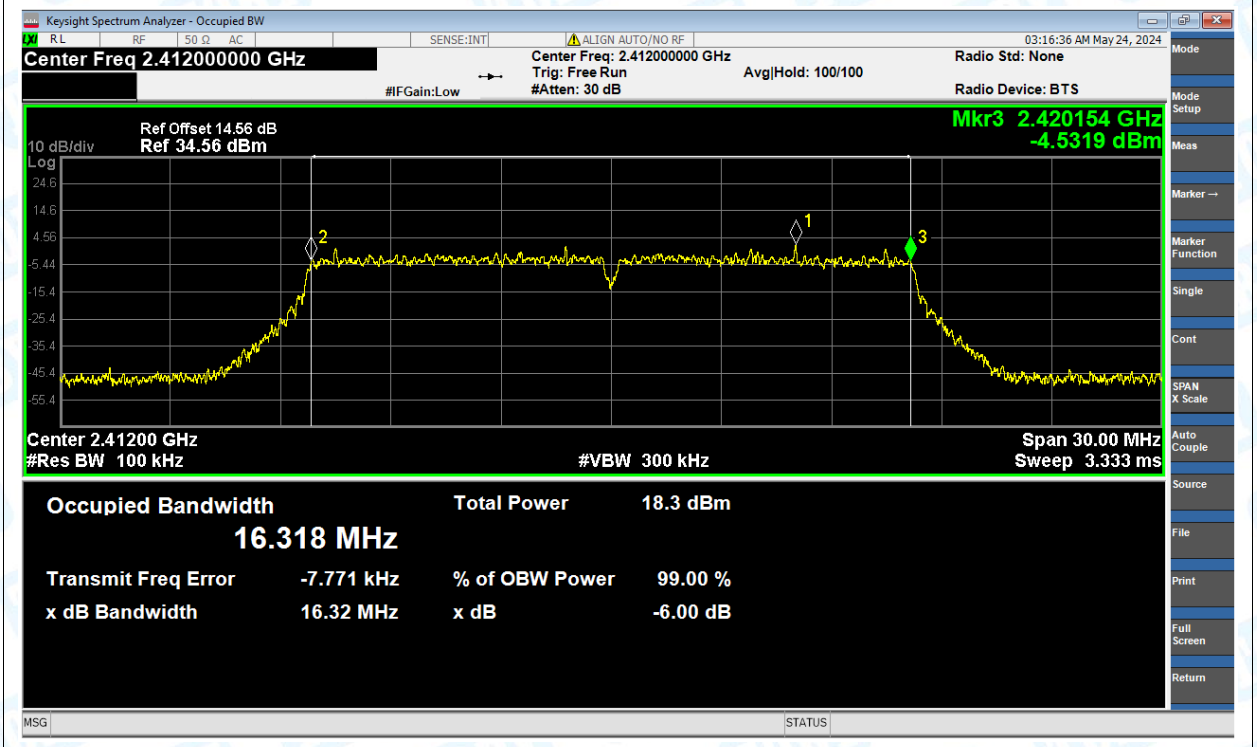


-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT b 2462MHz Ant2

-6dB Bandwidth NVNT g 2412MHz Ant1



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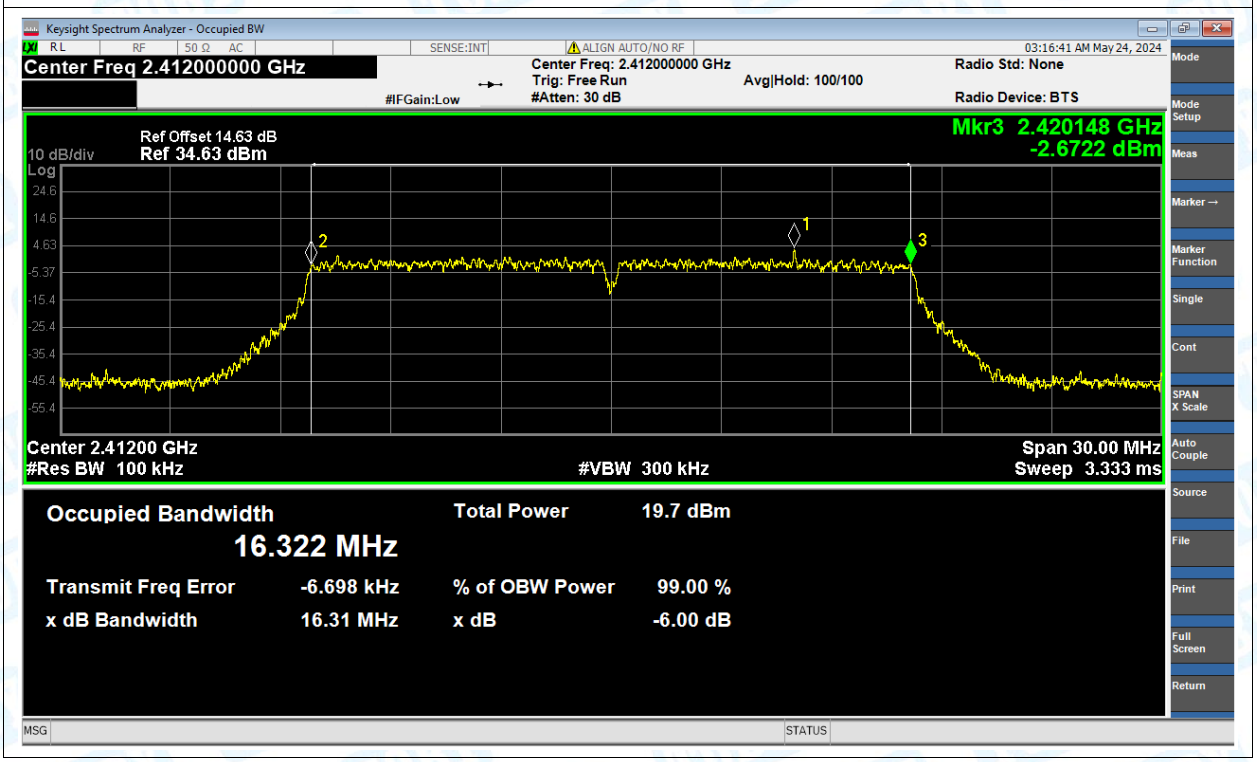
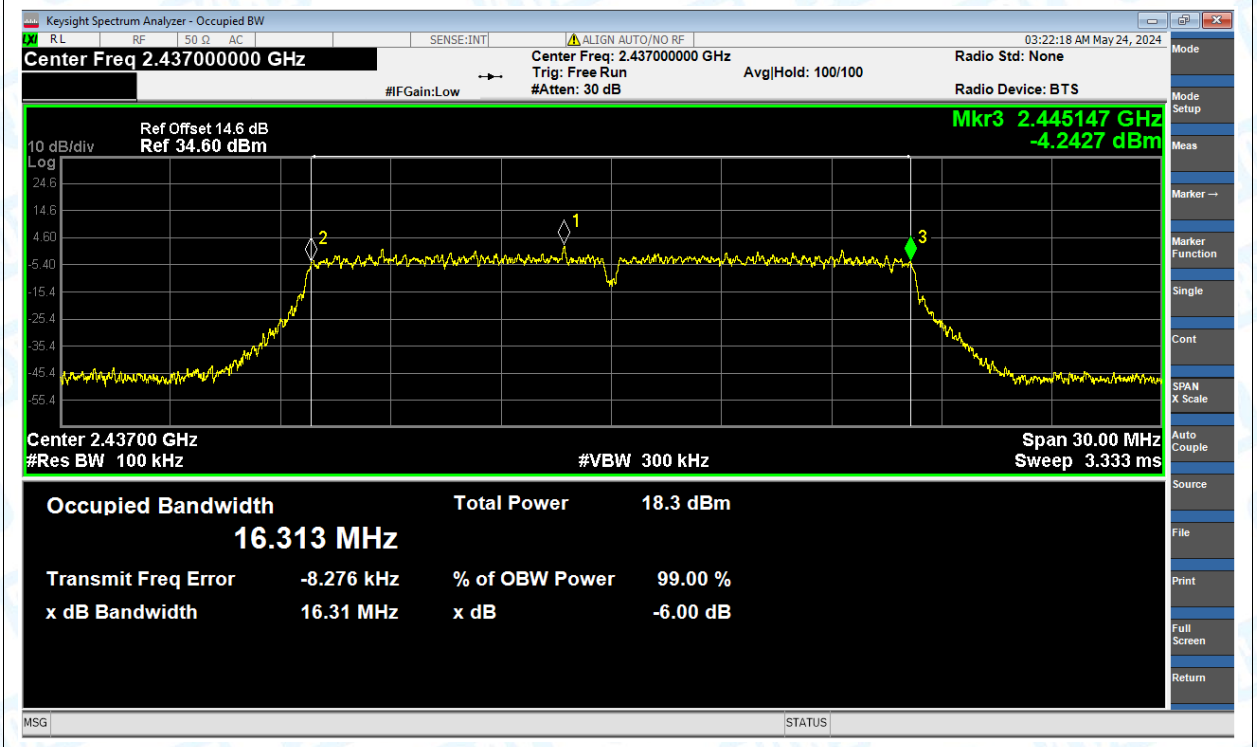


-6dB Bandwidth NVNT g 2437MHz Ant1



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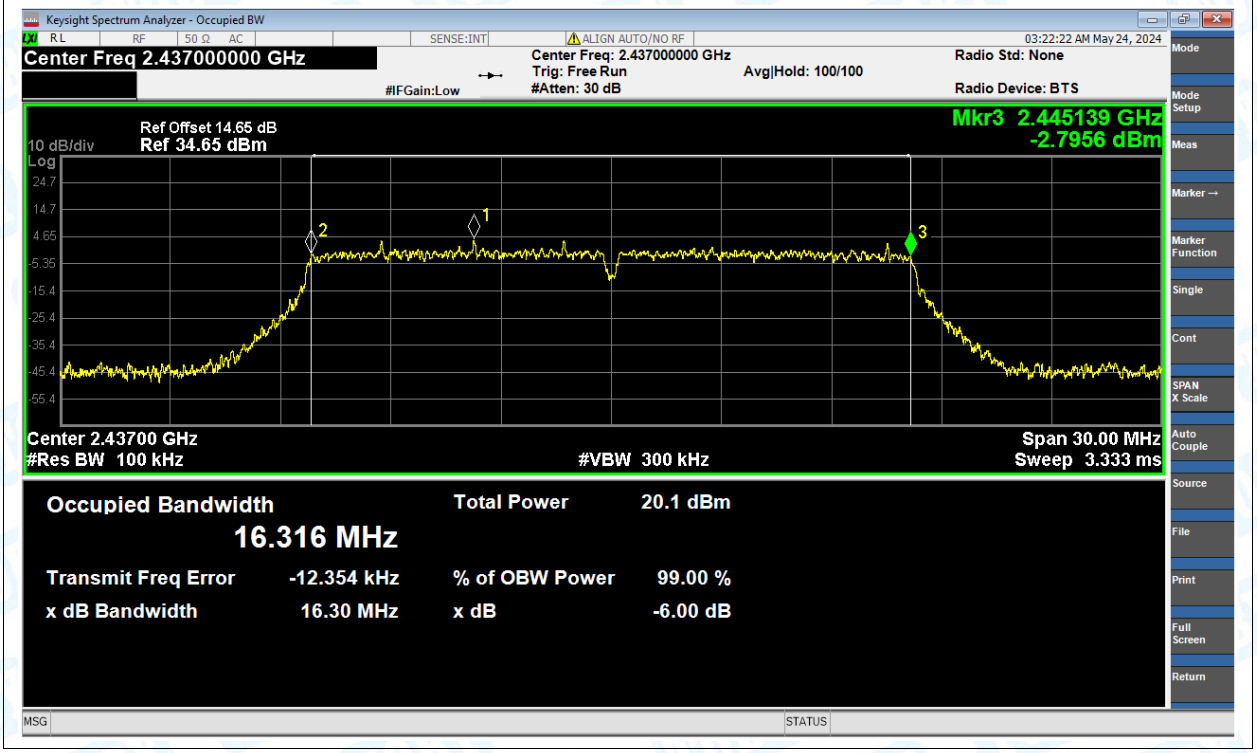

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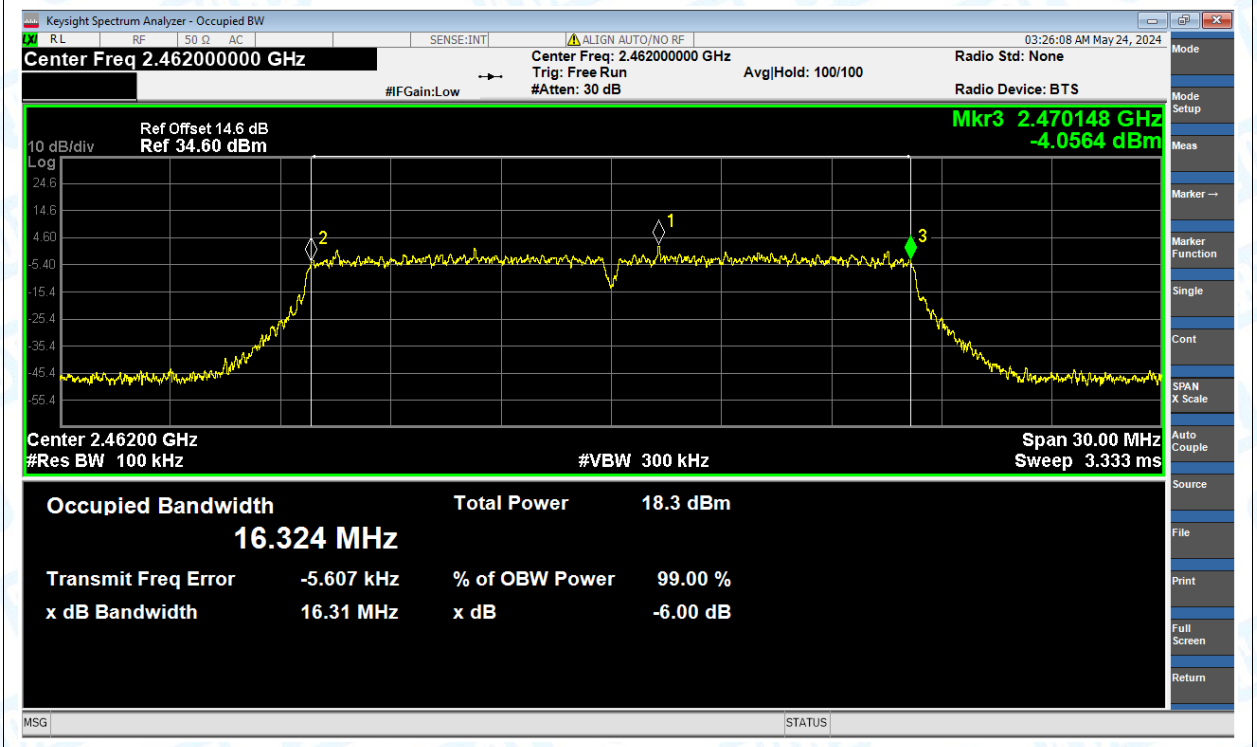
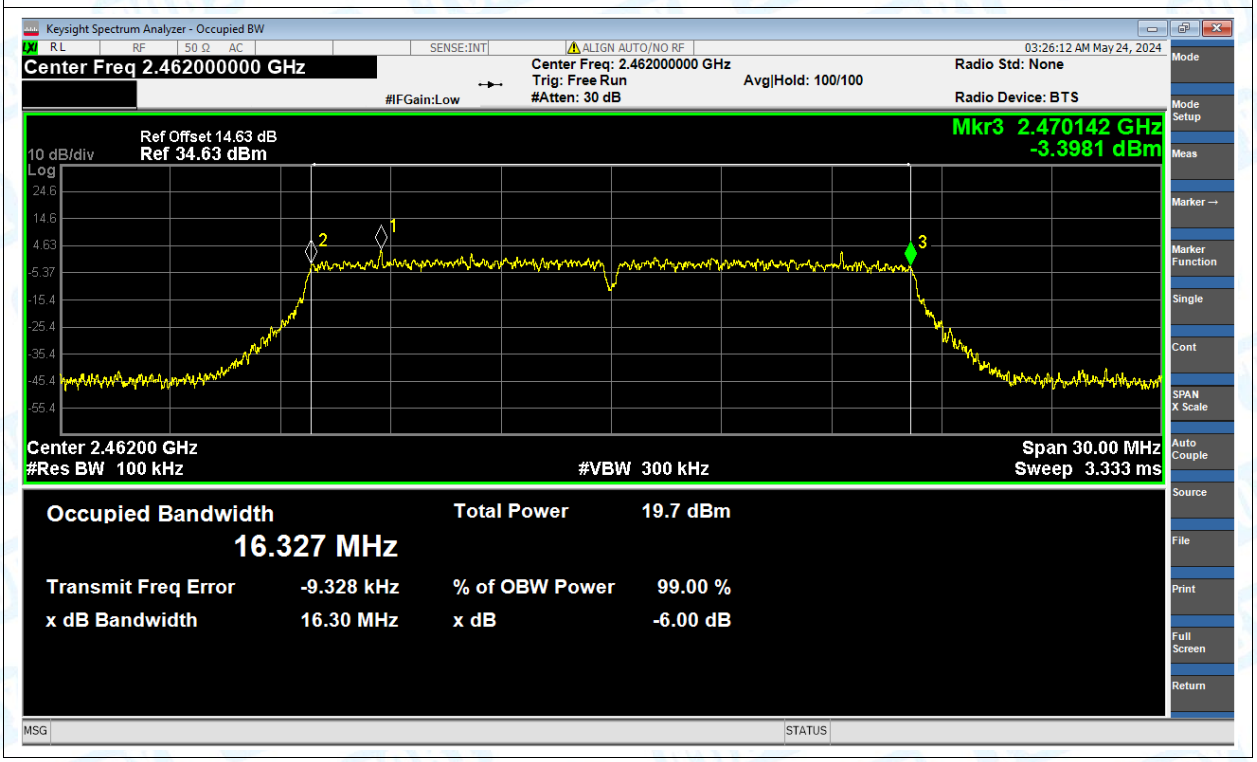
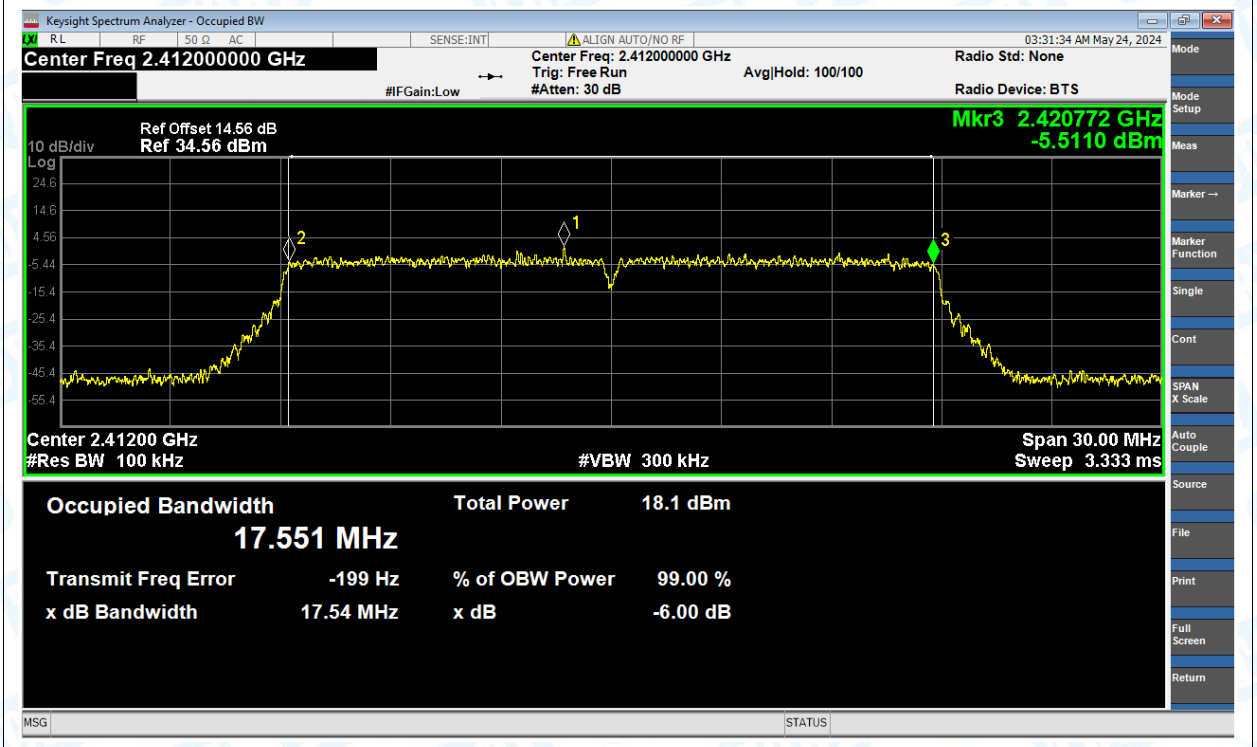


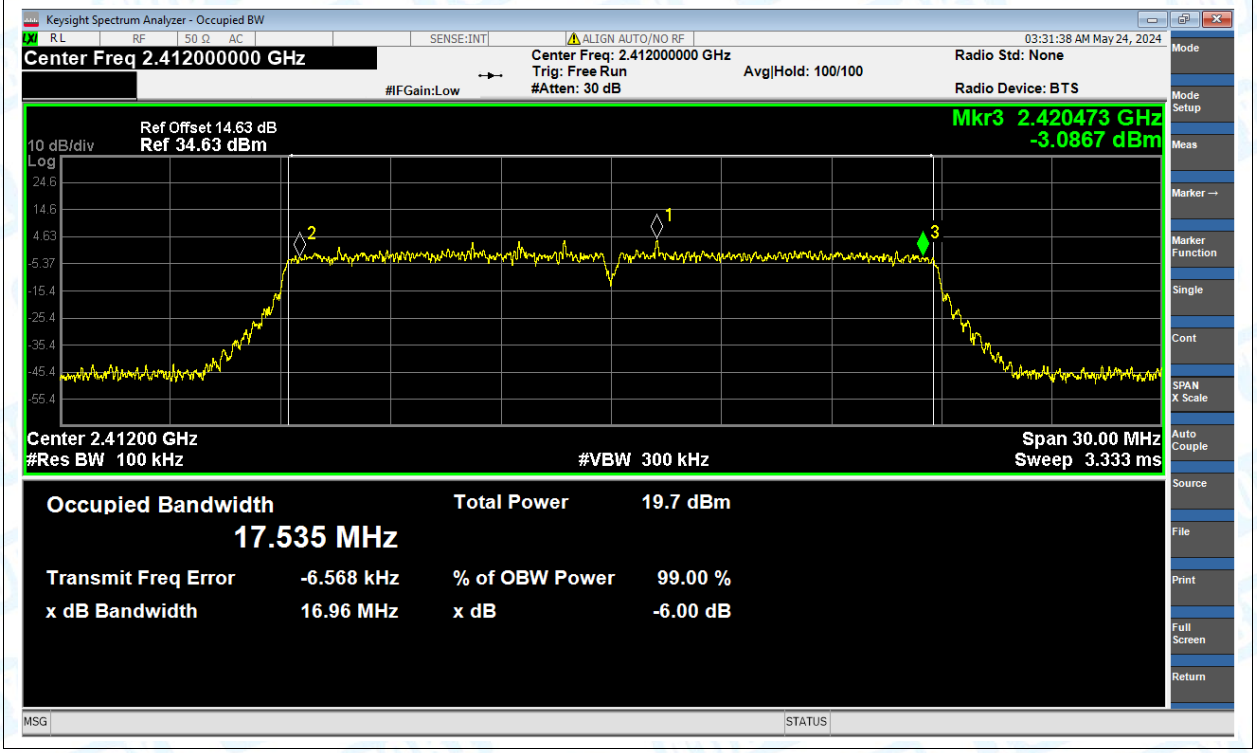
-6dB Bandwidth NVNT g 2462MHz Ant2



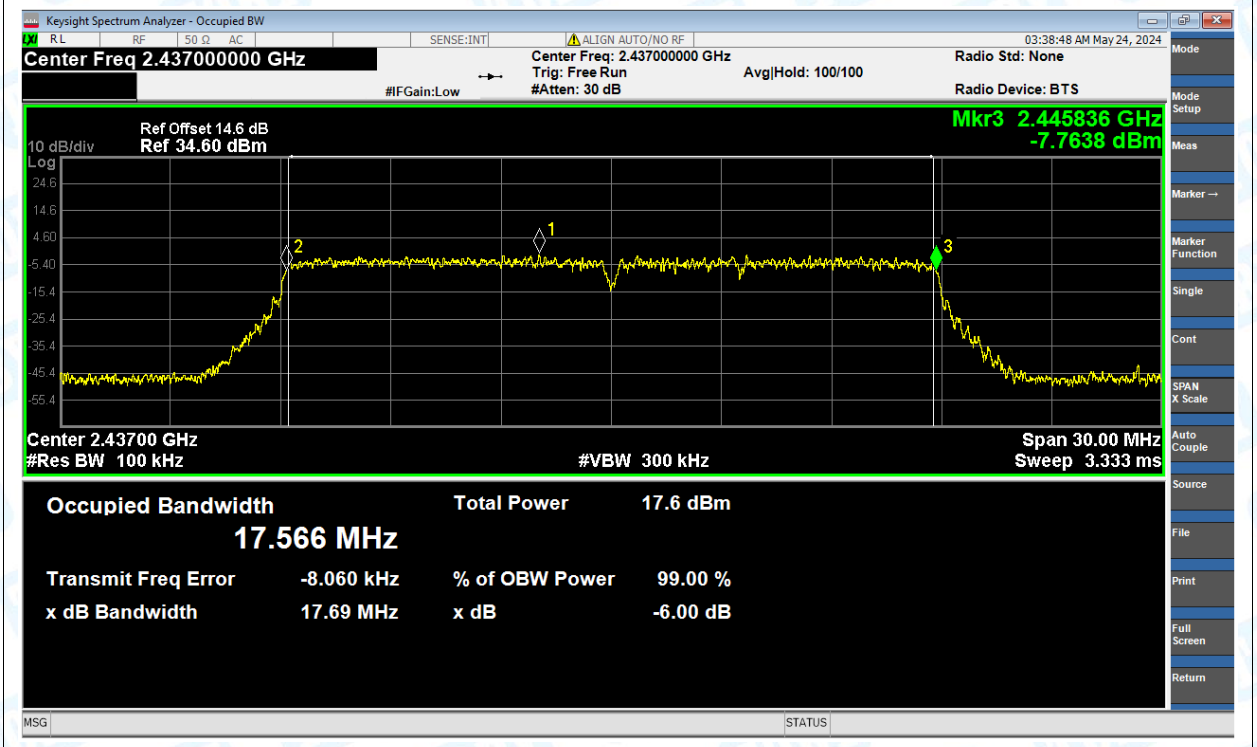
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



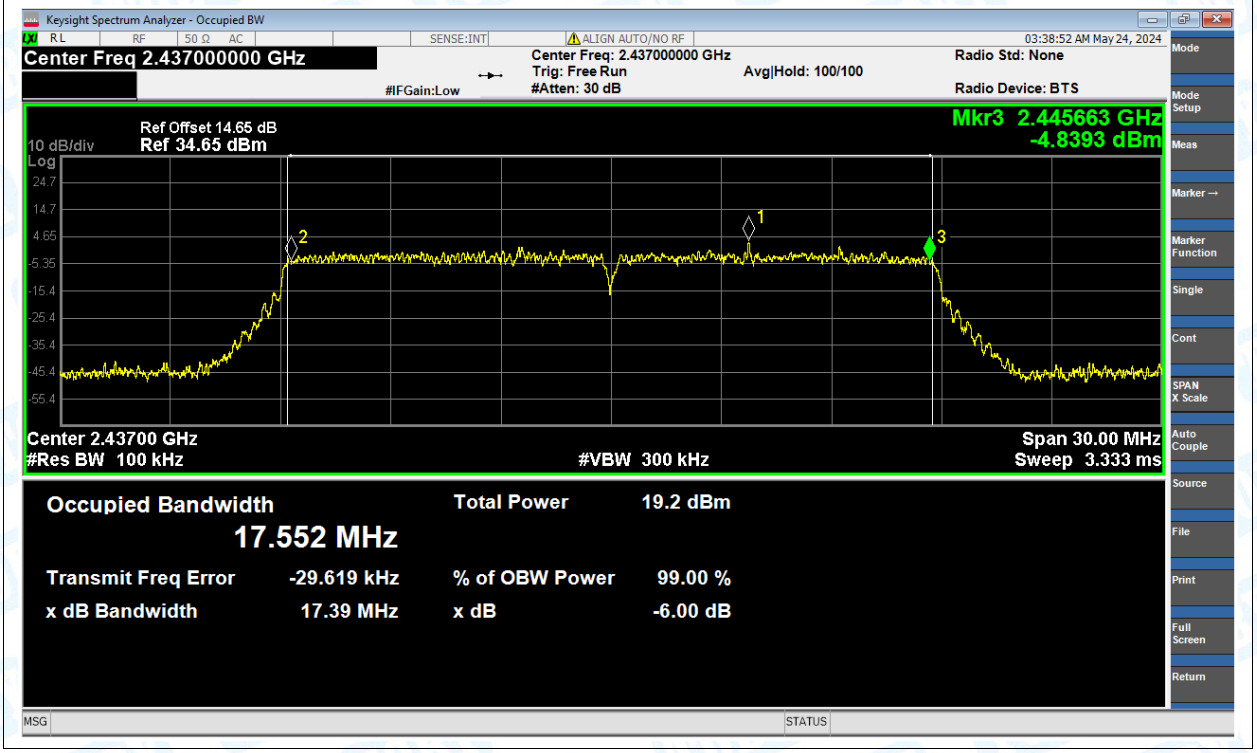
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant2



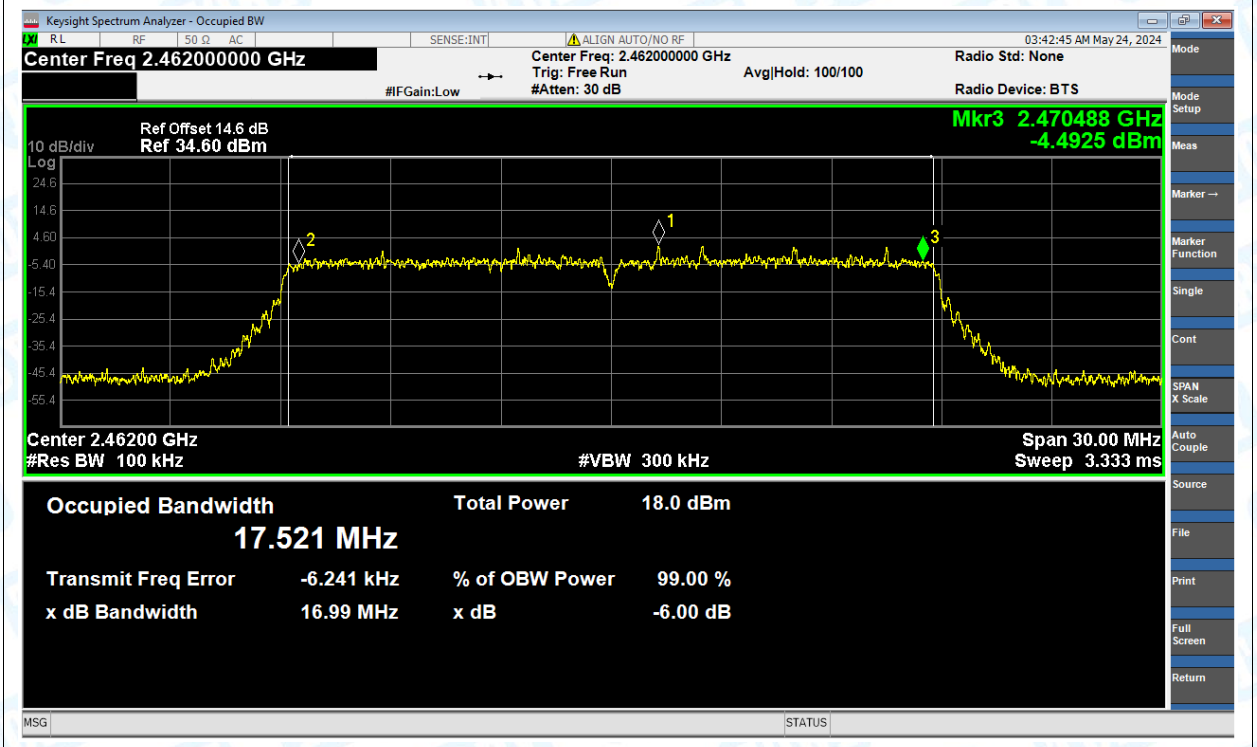
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



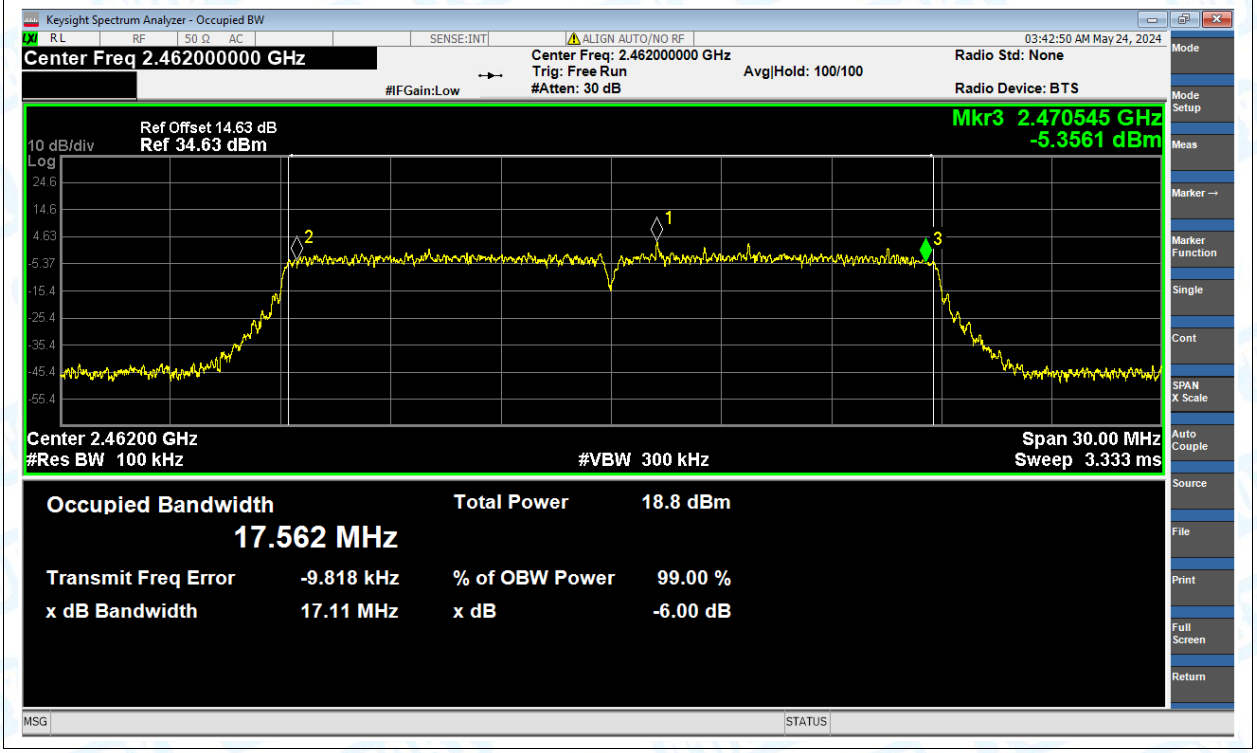
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant2



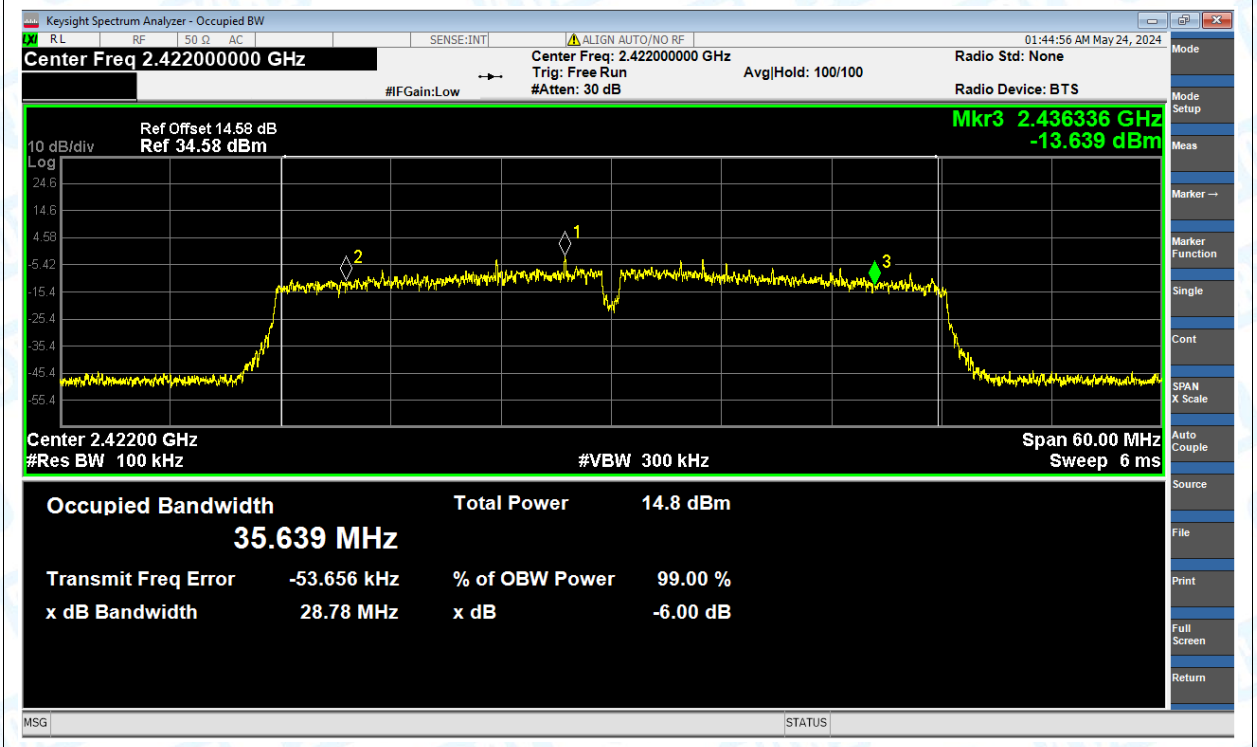
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



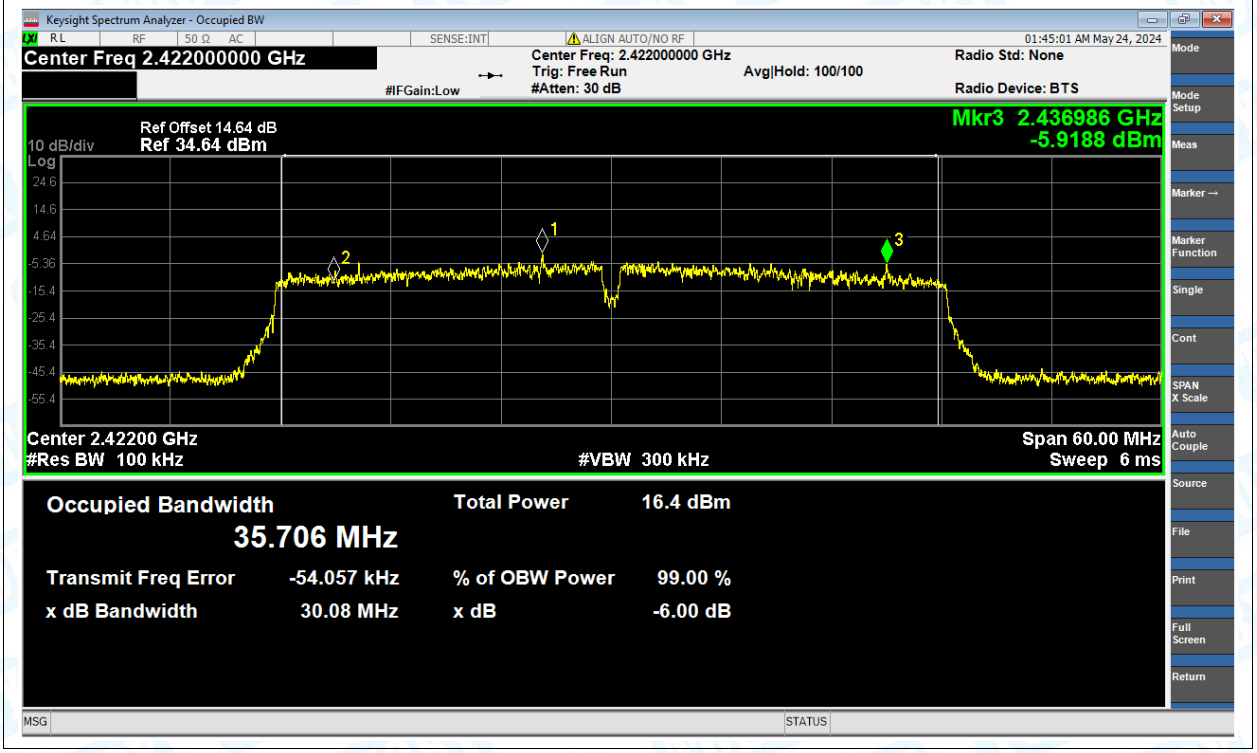
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant2



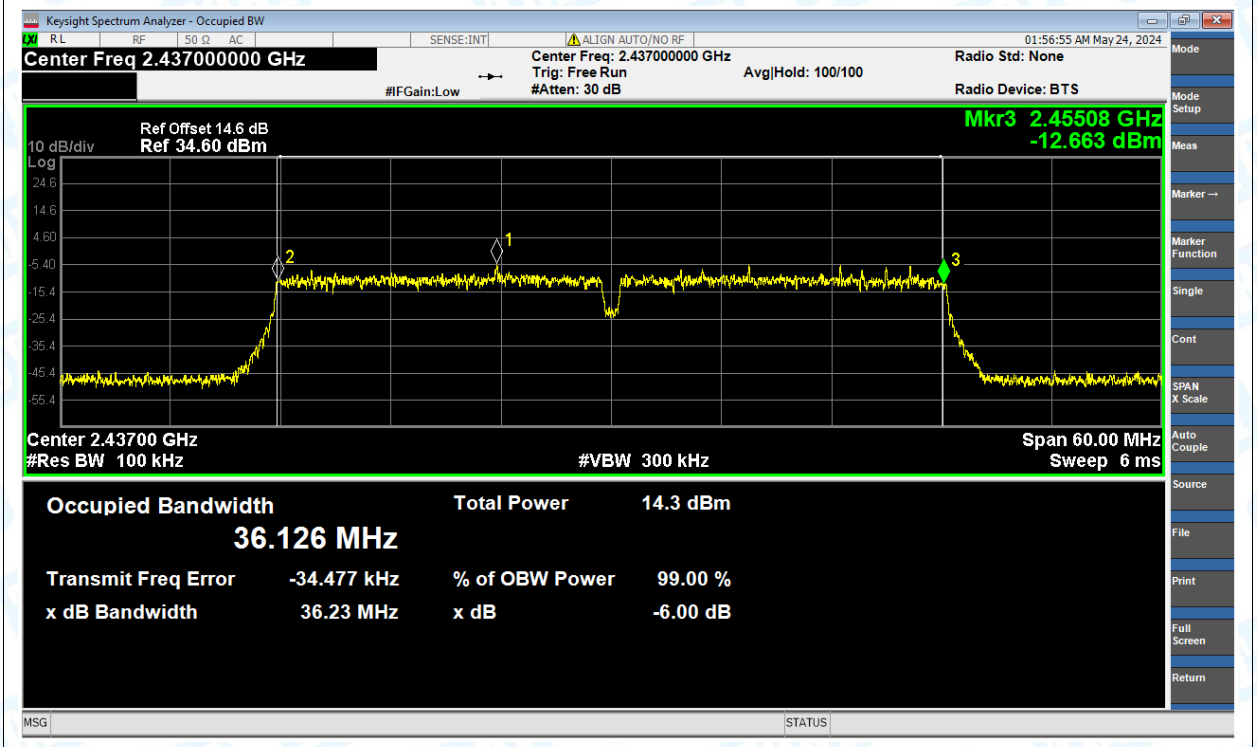
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



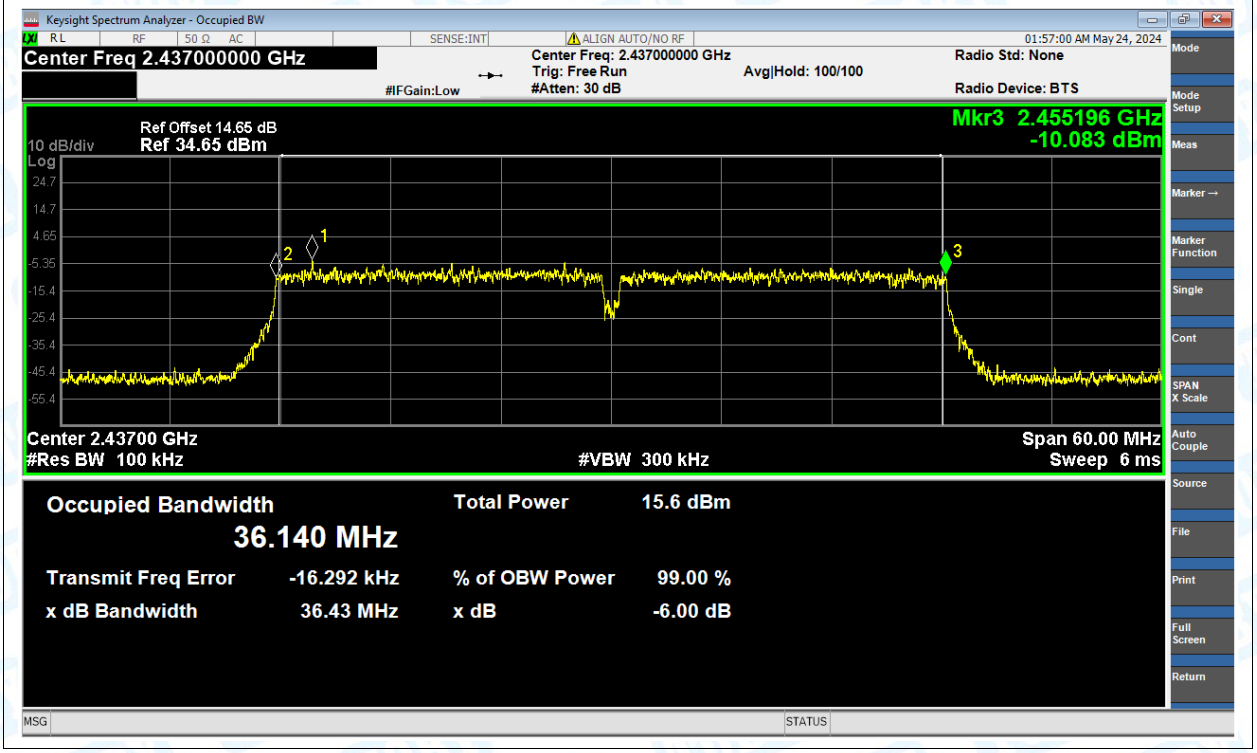
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant2



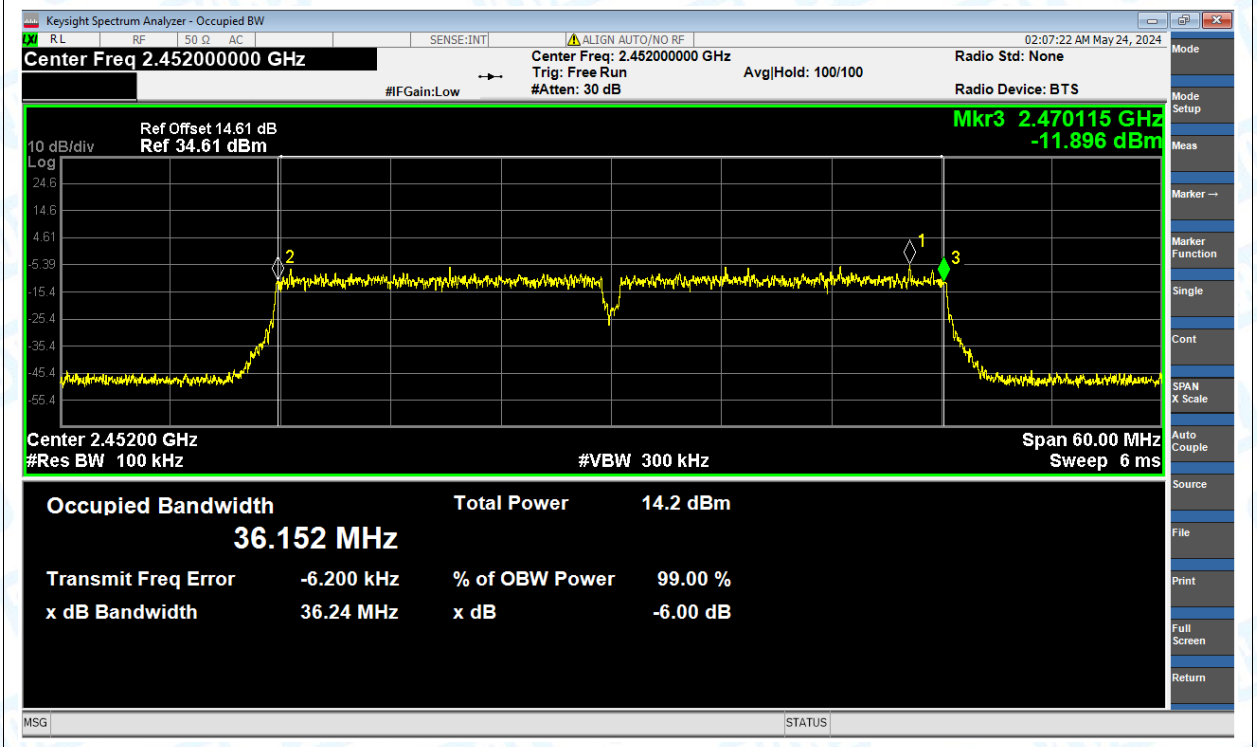
-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



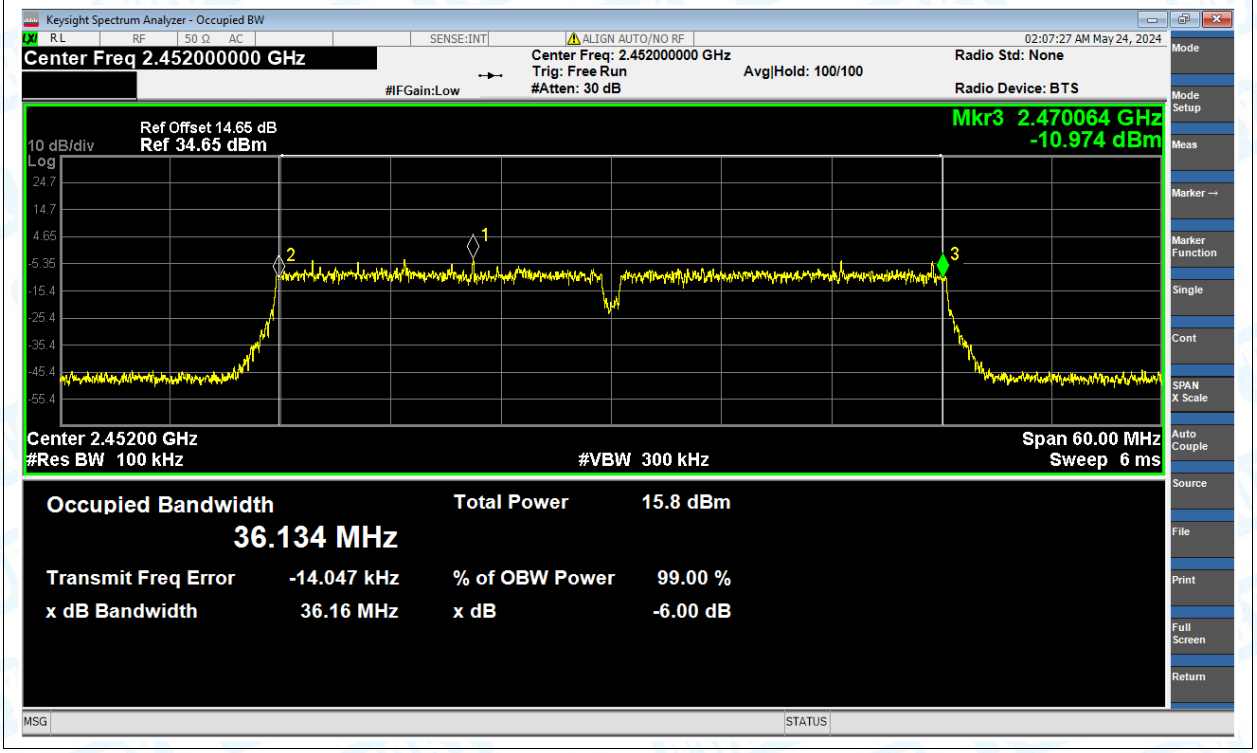
-6dB Bandwidth NVNT n(HT40) 2437MHz Ant2



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant1



-6dB Bandwidth NVNT n(HT40) 2452MHz Ant2

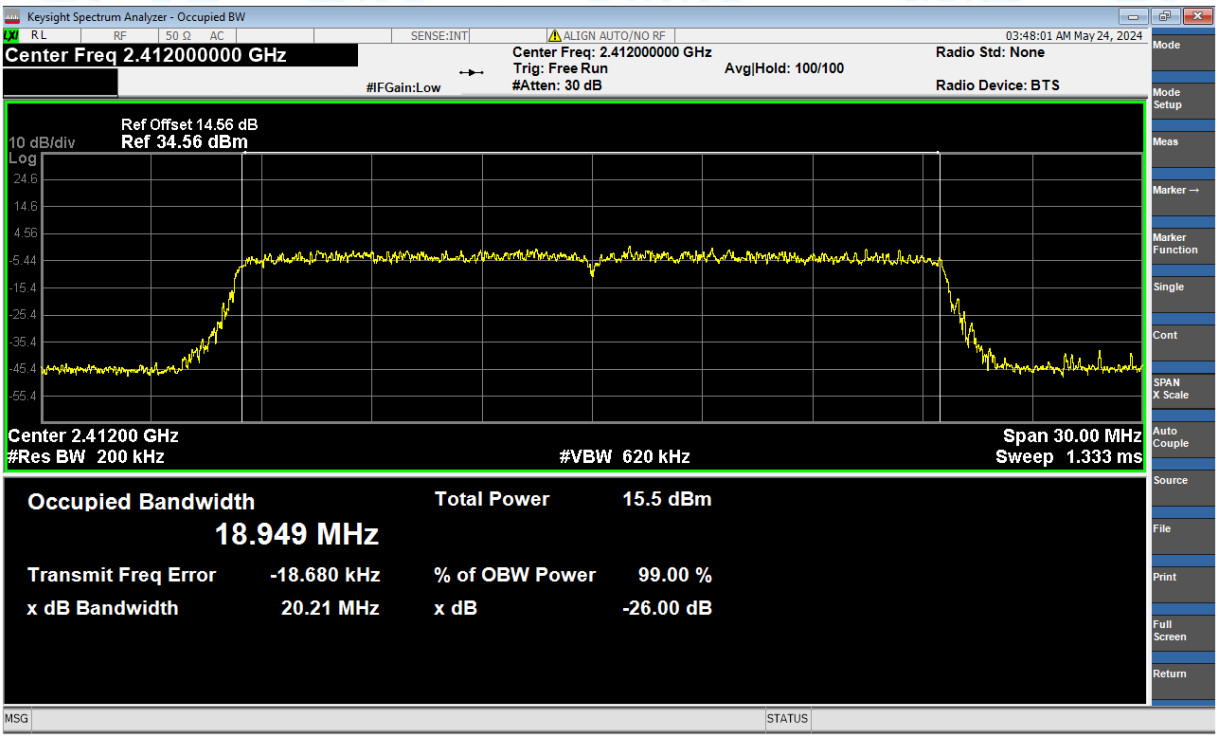


4. Occupied Channel Bandwidth

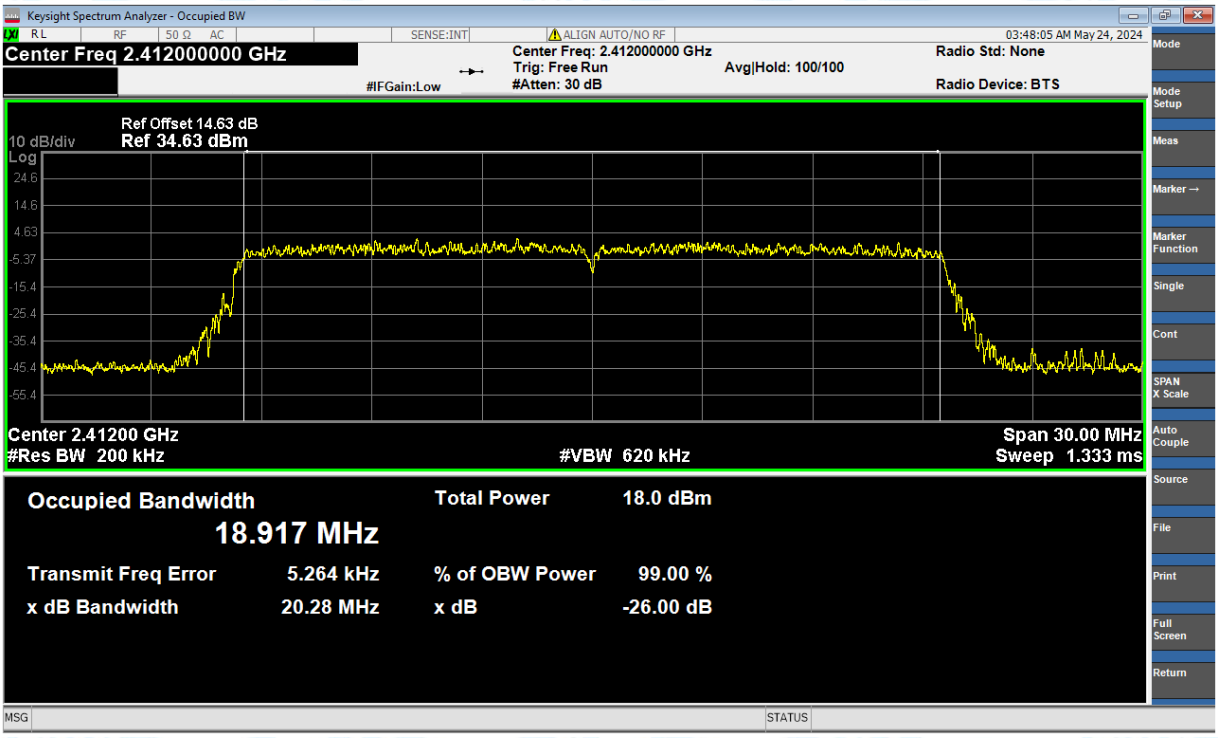
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.949
NVNT	ax(VHT20)	2412	Ant2	18.917
NVNT	ax(VHT20)	2437	Ant1	18.905
NVNT	ax(VHT20)	2437	Ant2	18.902
NVNT	ax(VHT20)	2462	Ant1	18.897
NVNT	ax(VHT20)	2462	Ant2	18.878
NVNT	ax(VHT40)	2422	Ant1	37.818
NVNT	ax(VHT40)	2422	Ant2	37.76
NVNT	ax(VHT40)	2437	Ant1	37.818
NVNT	ax(VHT40)	2437	Ant2	37.762
NVNT	ax(VHT40)	2452	Ant1	37.799
NVNT	ax(VHT40)	2452	Ant2	37.827
NVNT	b	2412	Ant1	14.875
NVNT	b	2412	Ant2	14.872
NVNT	b	2437	Ant1	14.934
NVNT	b	2437	Ant2	14.855
NVNT	b	2462	Ant1	14.938
NVNT	b	2462	Ant2	14.866
NVNT	g	2412	Ant1	16.345
NVNT	g	2412	Ant2	16.363
NVNT	g	2437	Ant1	16.339
NVNT	g	2437	Ant2	16.357
NVNT	g	2462	Ant1	16.355
NVNT	g	2462	Ant2	16.334
NVNT	n(HT20)	2412	Ant1	17.556
NVNT	n(HT20)	2412	Ant2	17.539
NVNT	n(HT20)	2437	Ant1	17.557
NVNT	n(HT20)	2437	Ant2	17.538
NVNT	n(HT20)	2462	Ant1	17.557
NVNT	n(HT20)	2462	Ant2	17.529
NVNT	n(HT40)	2422	Ant1	35.67
NVNT	n(HT40)	2422	Ant2	35.721
NVNT	n(HT40)	2437	Ant1	36.264
NVNT	n(HT40)	2437	Ant2	36.199
NVNT	n(HT40)	2452	Ant1	36.206
NVNT	n(HT40)	2452	Ant2	36.227

Test Graphs

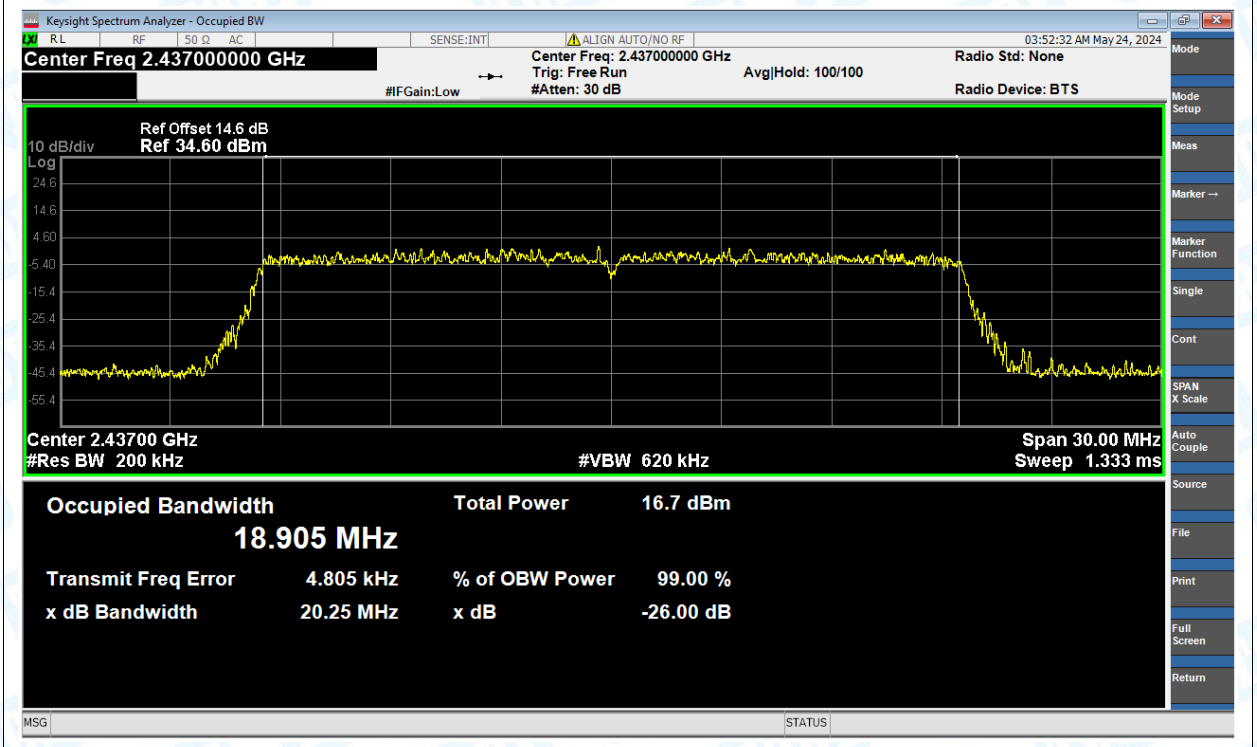
OBW NVNT ax(VHT20) 2412MHz Ant1



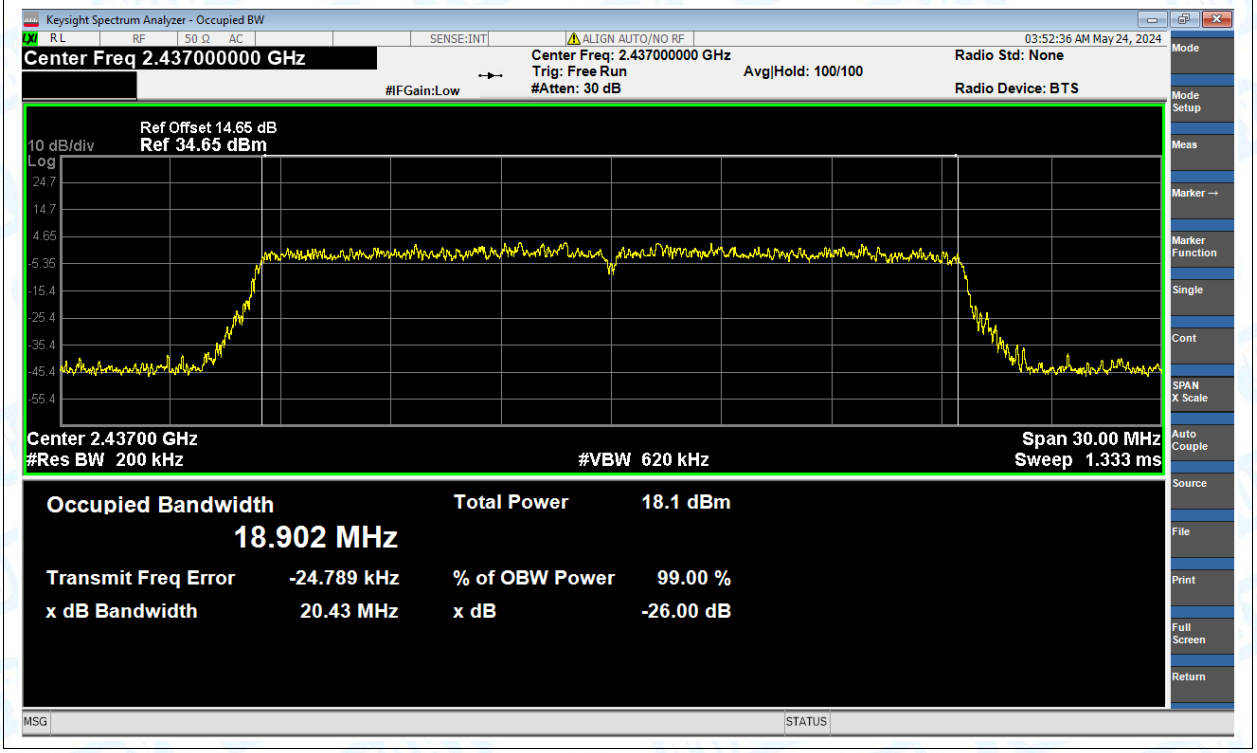
OBW NVNT ax(VHT20) 2412MHz Ant2



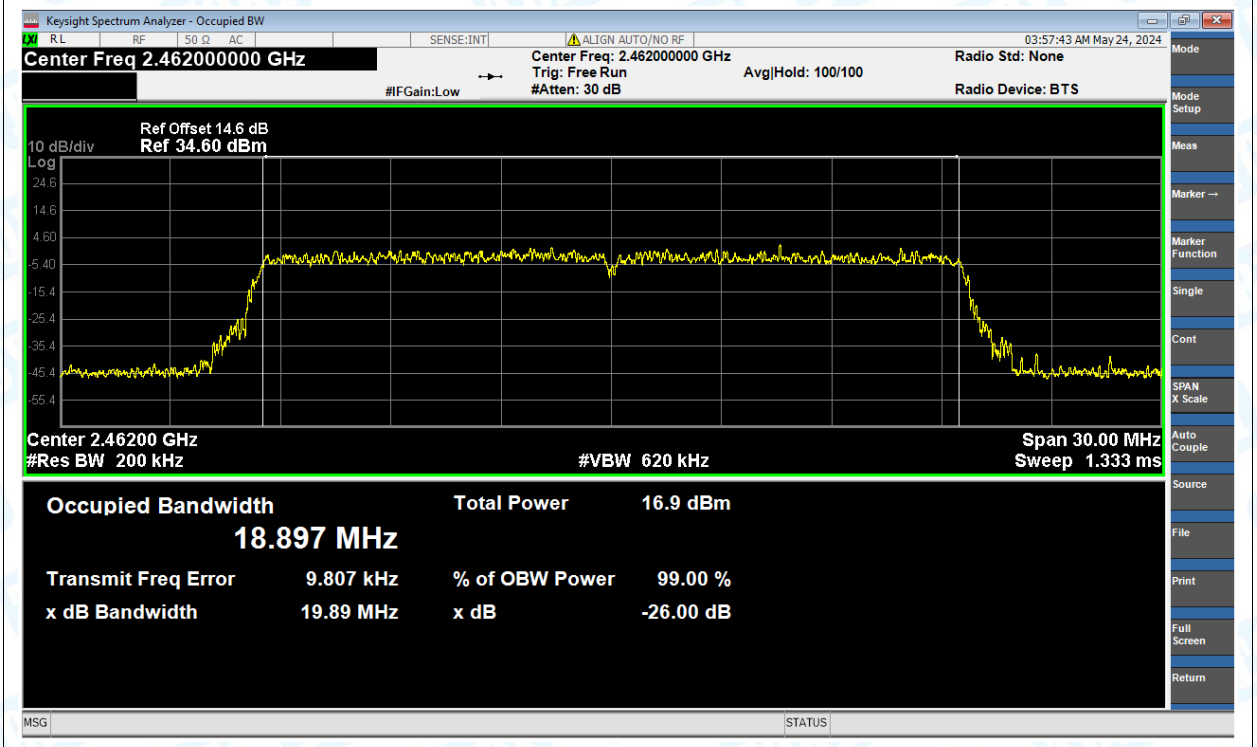
OBW NVNT ax(VHT20) 2437MHz Ant1



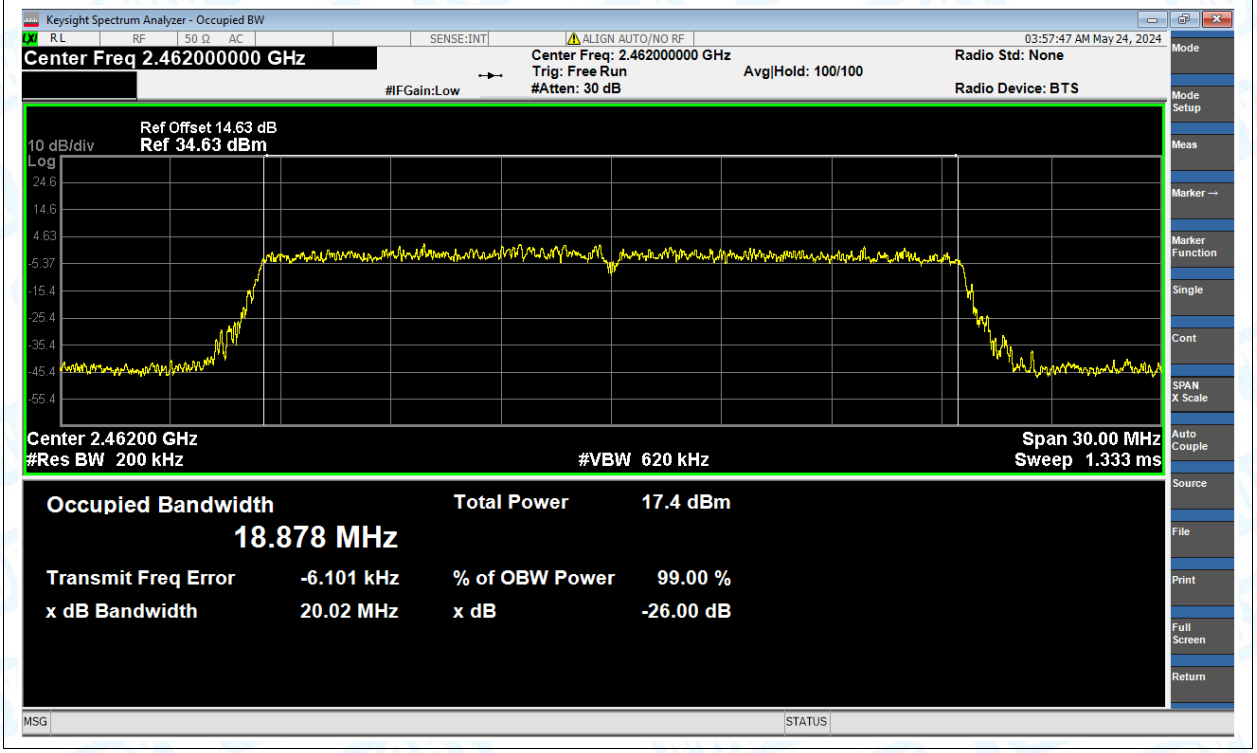
OBW NVNT ax(VHT20) 2437MHz Ant2



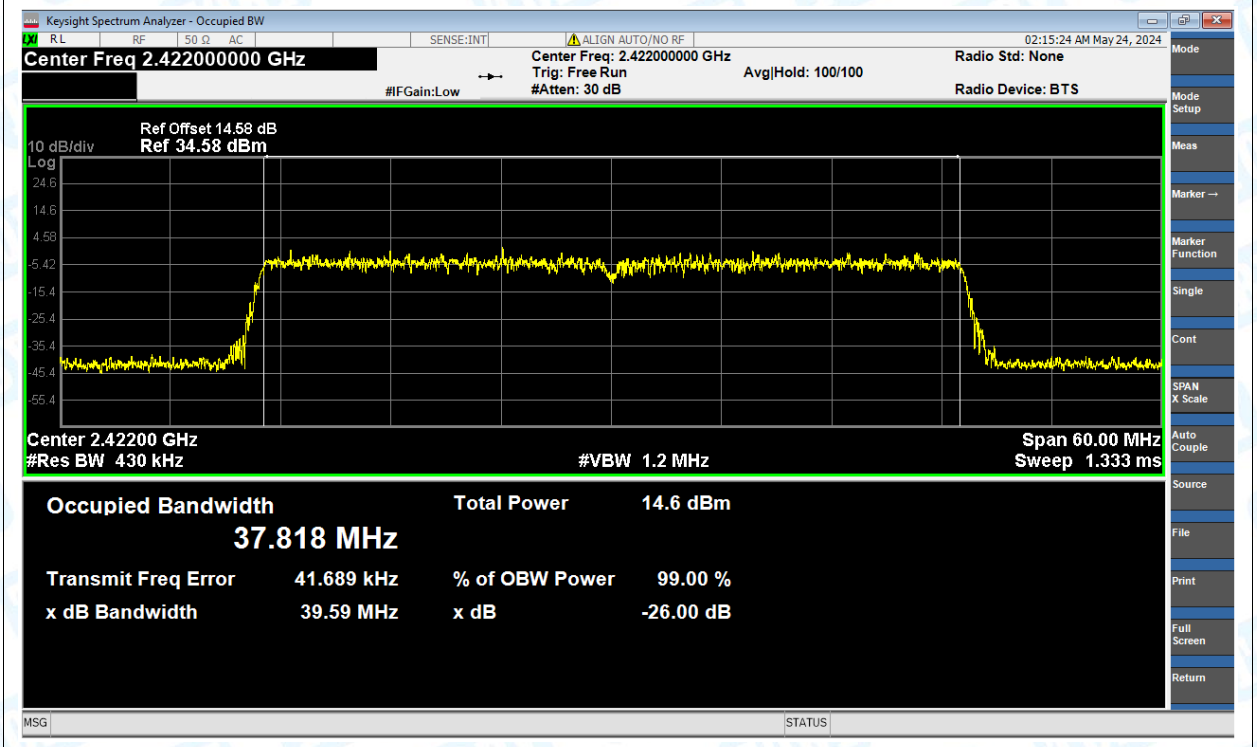
OBW NVNT ax(VHT20) 2462MHz Ant1



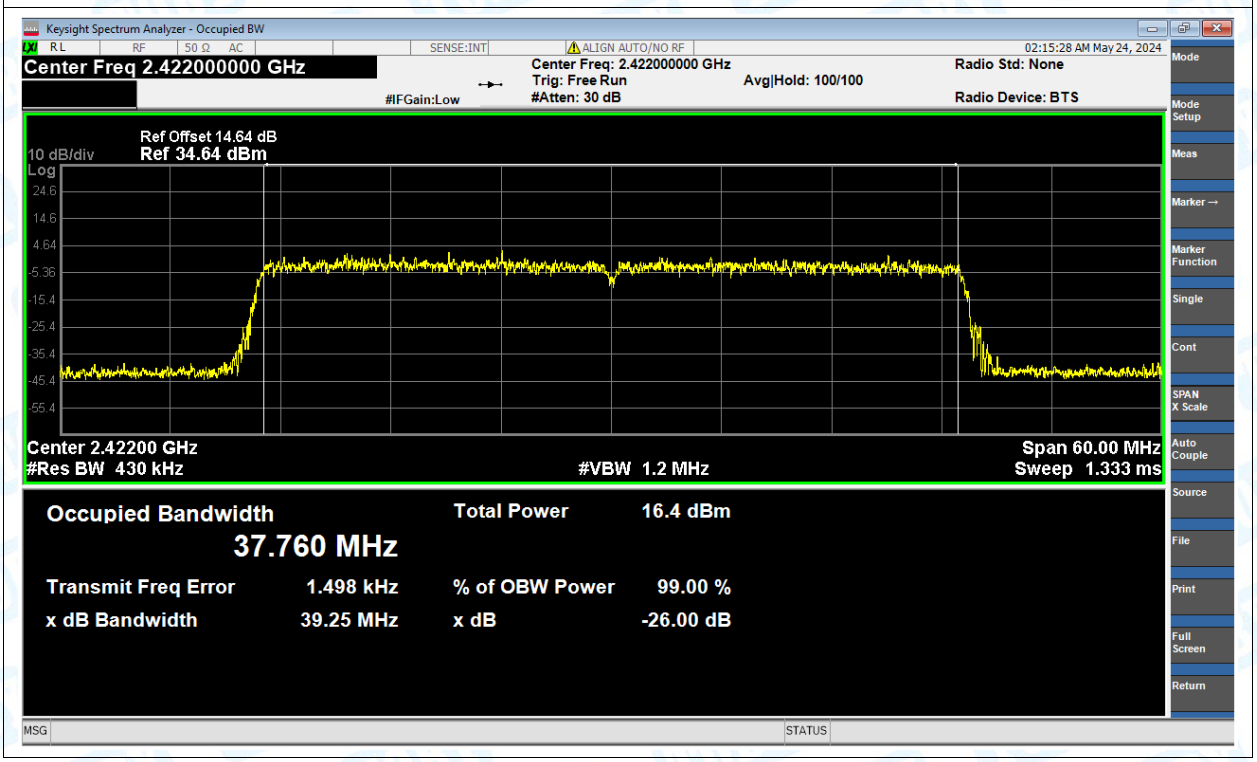
OBW NVNT ax(VHT20) 2462MHz Ant2



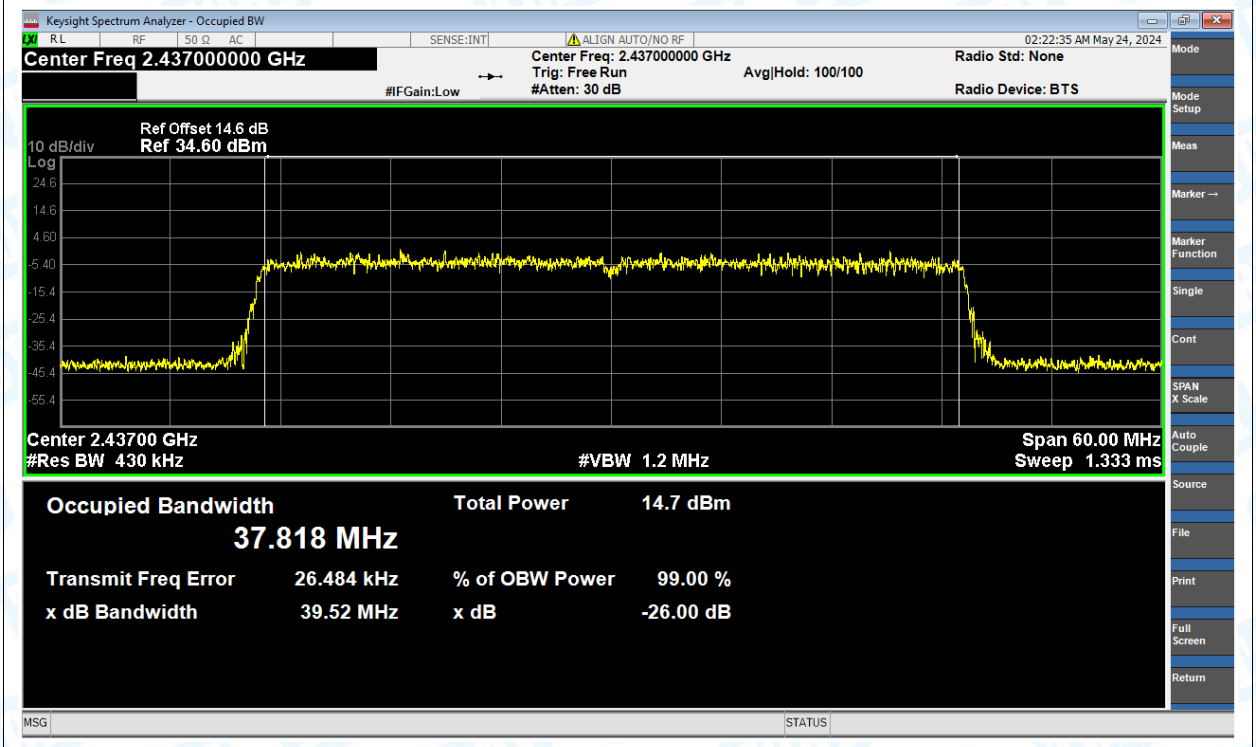
OBW NVNT ax(VHT40) 2422MHz Ant1



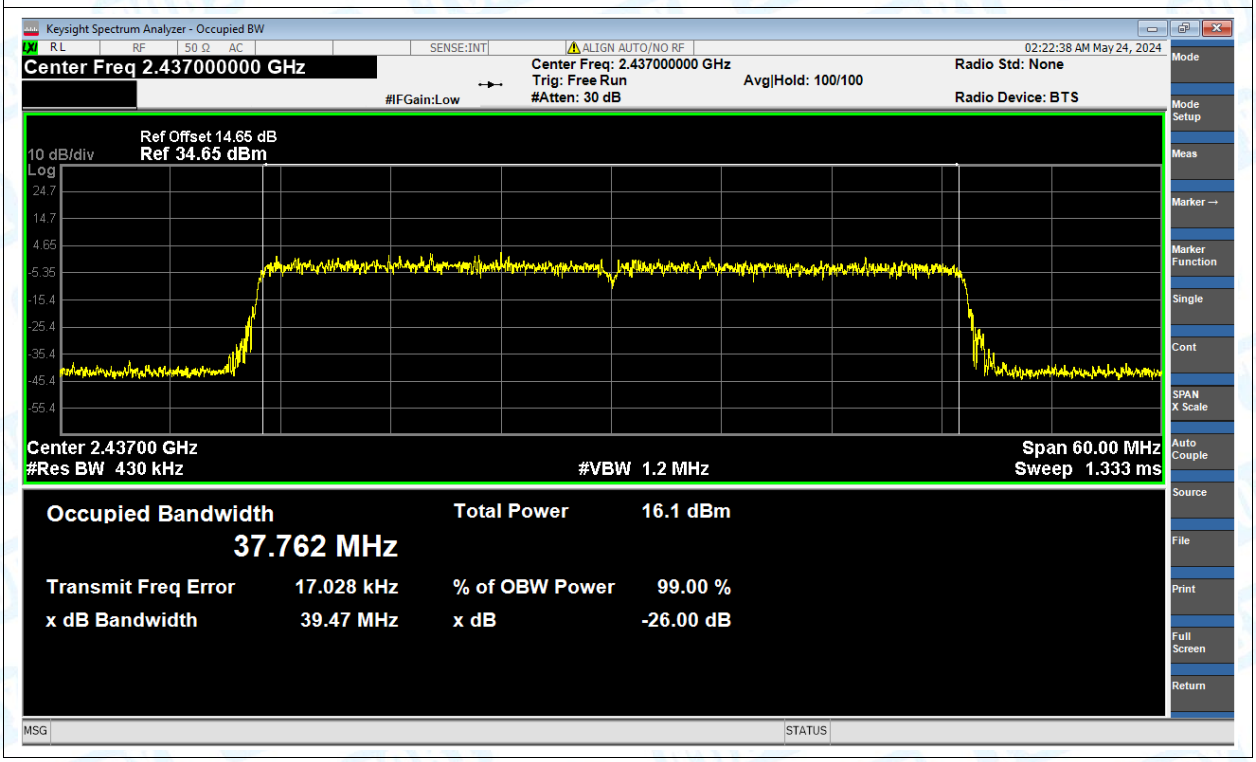
OBW NVNT ax(VHT40) 2422MHz Ant2



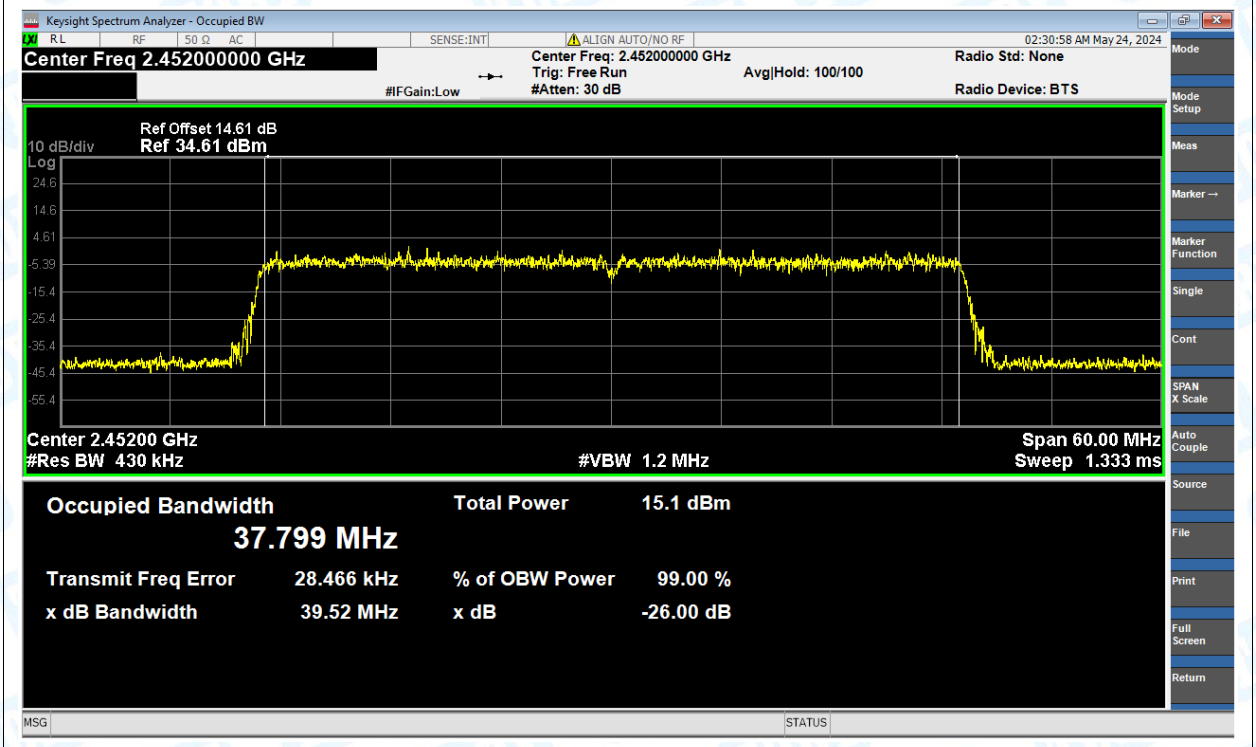
OBW NVNT ax(VHT40) 2437MHz Ant1



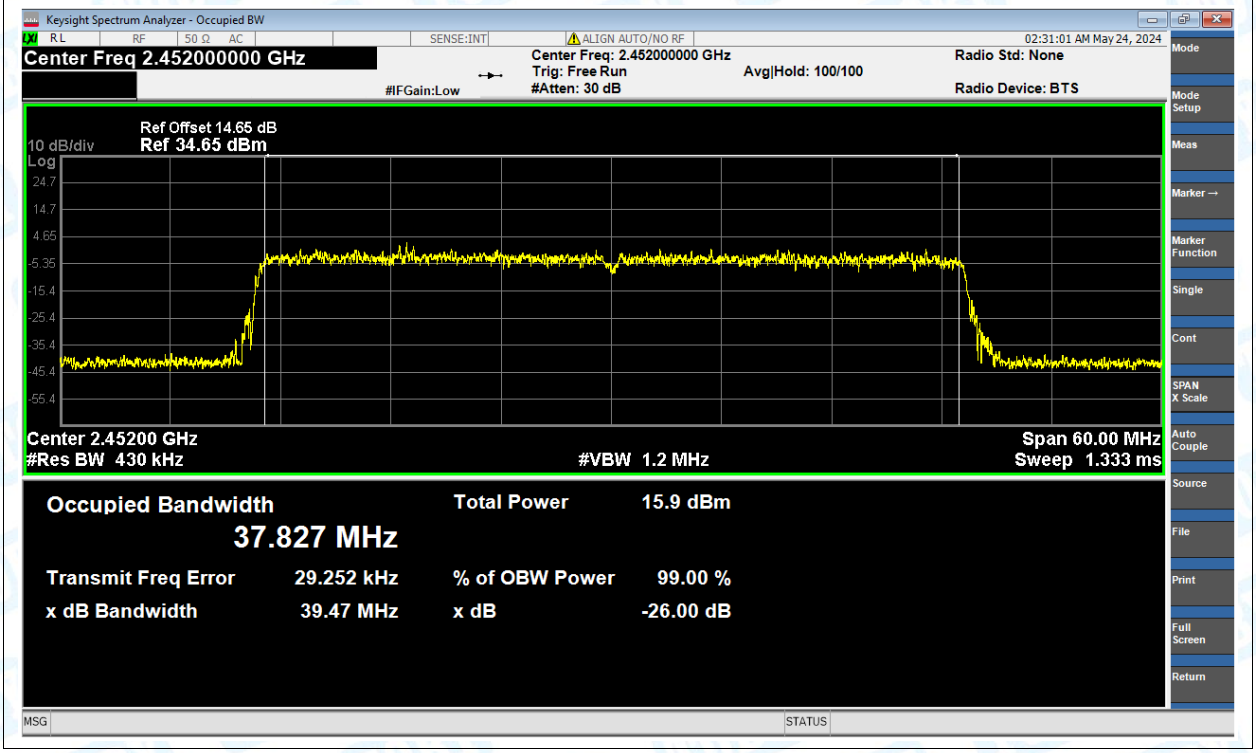
OBW NVNT ax(VHT40) 2437MHz Ant2



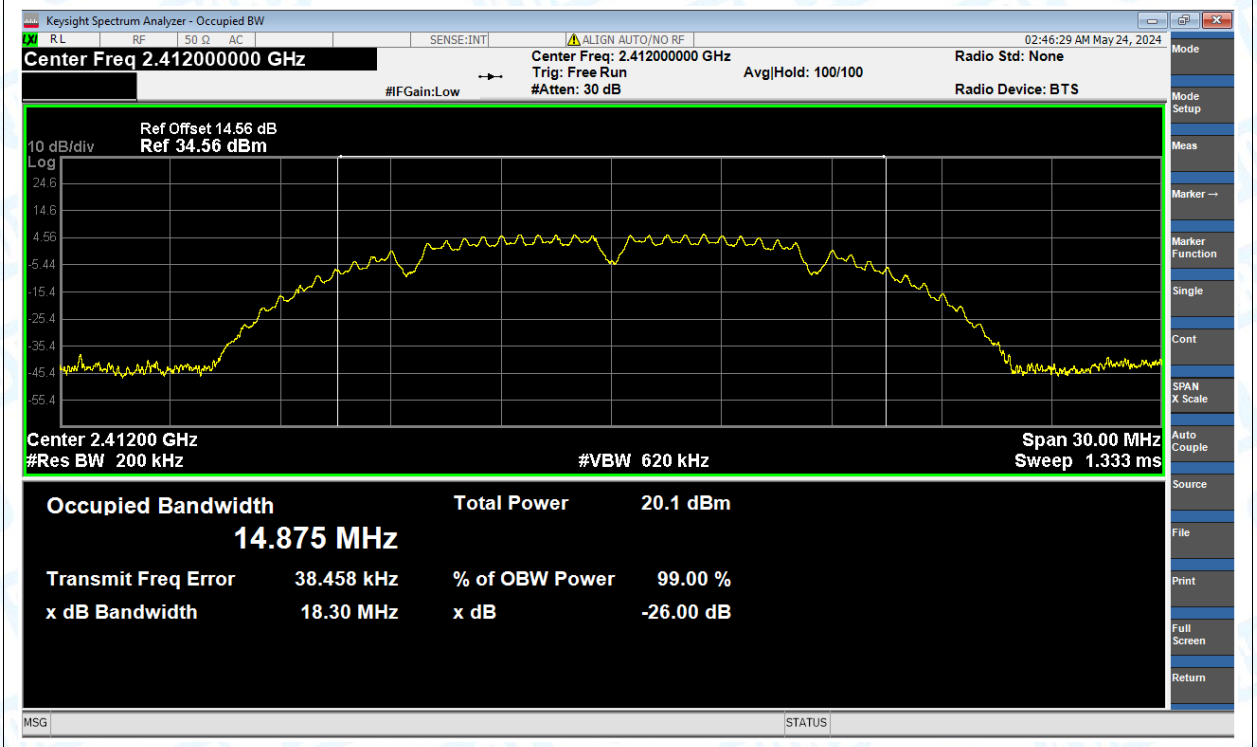
OBW NVNT ax(VHT40) 2452MHz Ant1



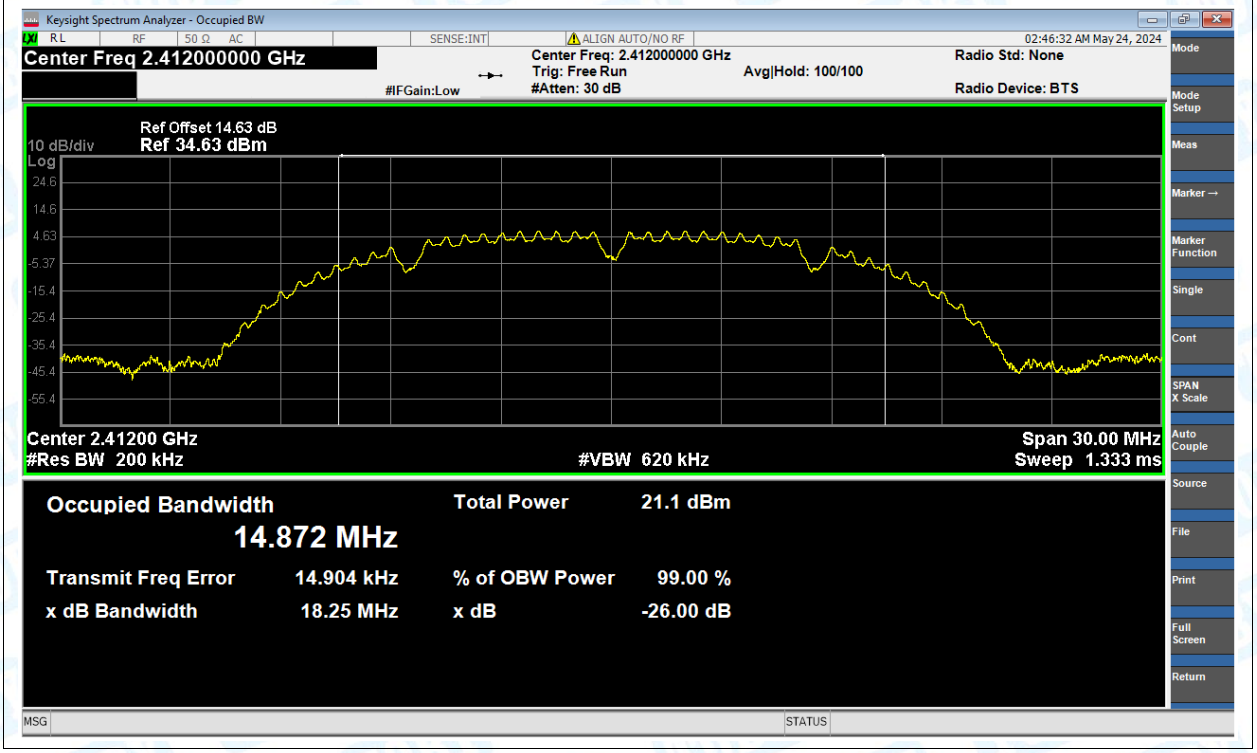
OBW NVNT ax(VHT40) 2452MHz Ant2



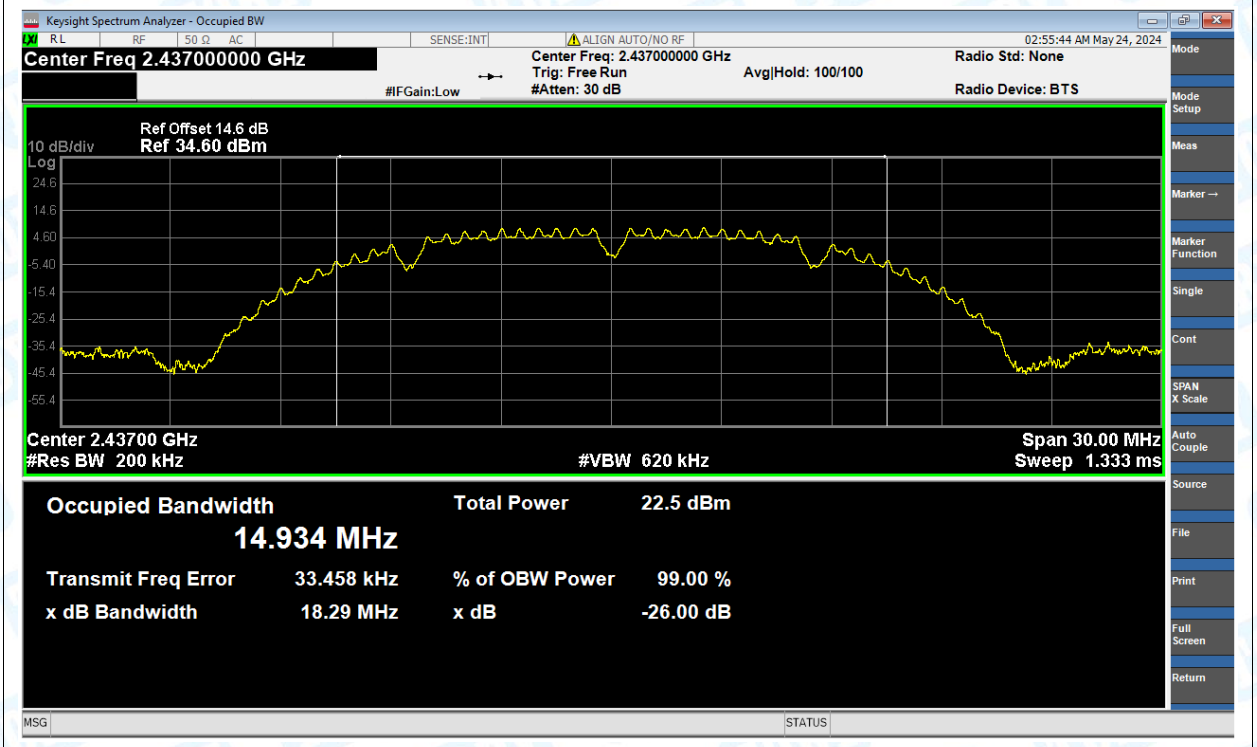
OBW NVNT b 2412MHz Ant1



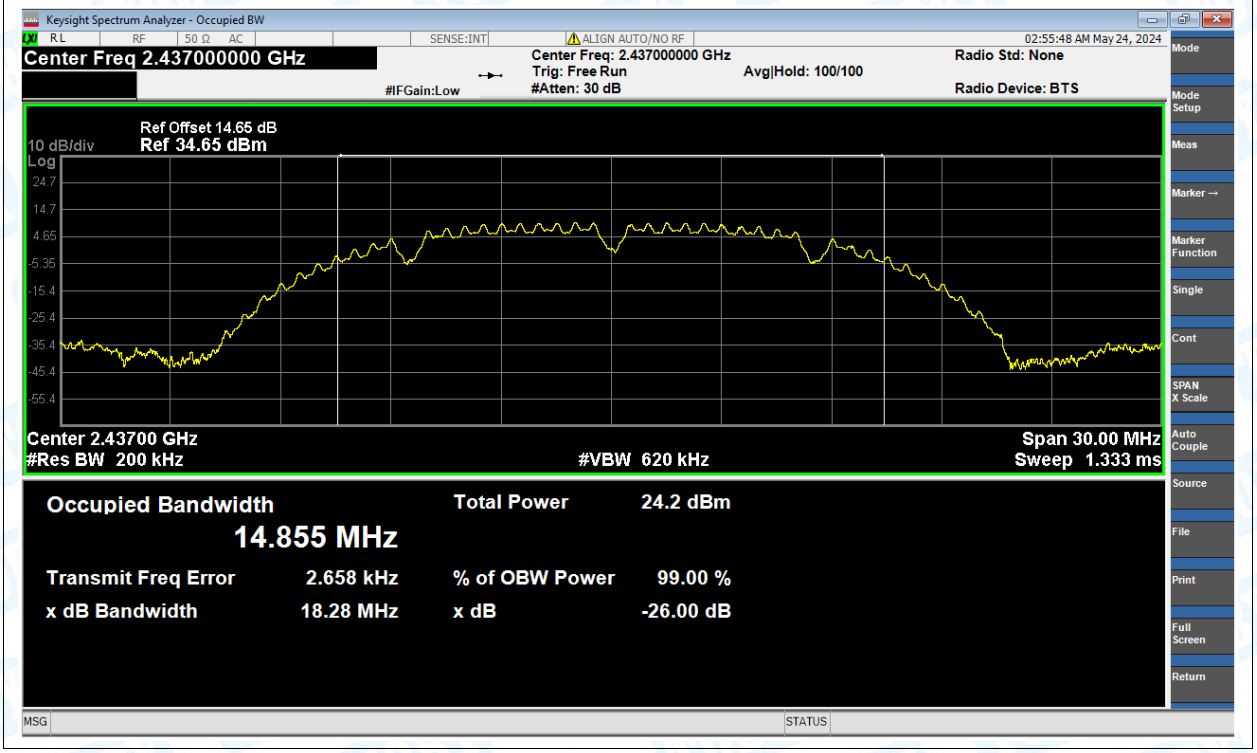
OBW NVNT b 2412MHz Ant2



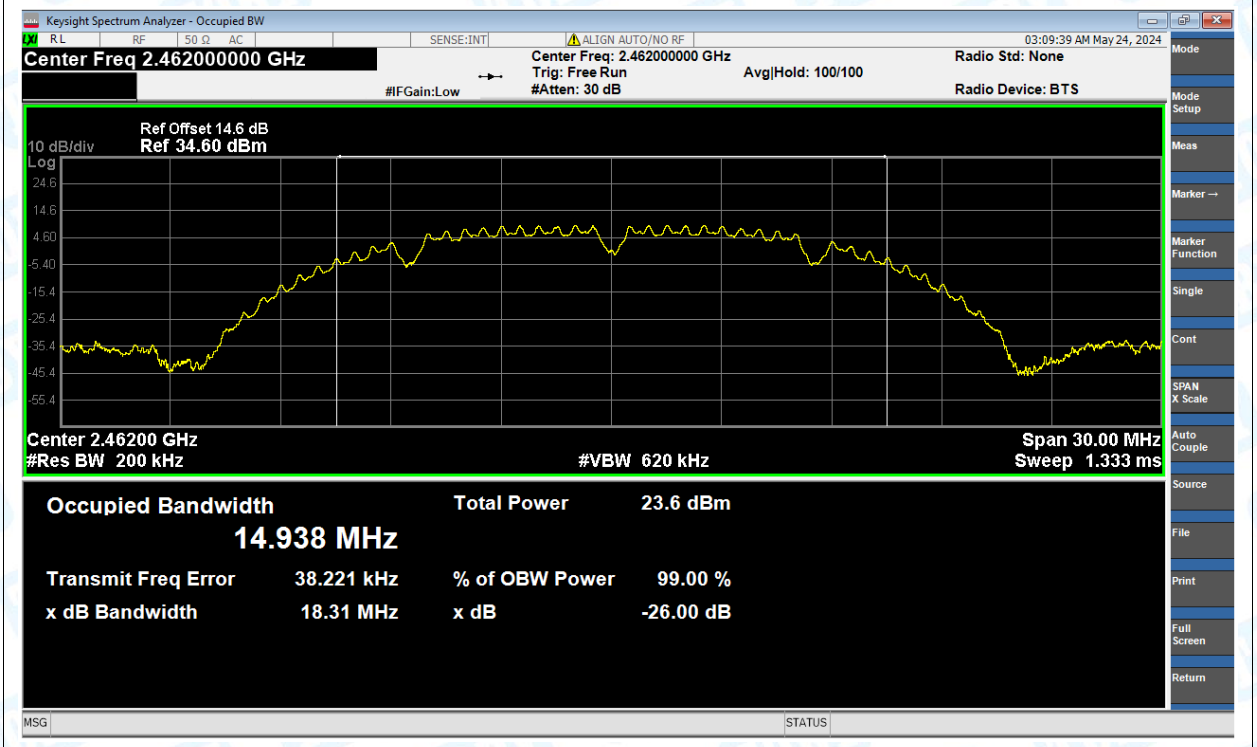
OBW NVNT b 2437MHz Ant1



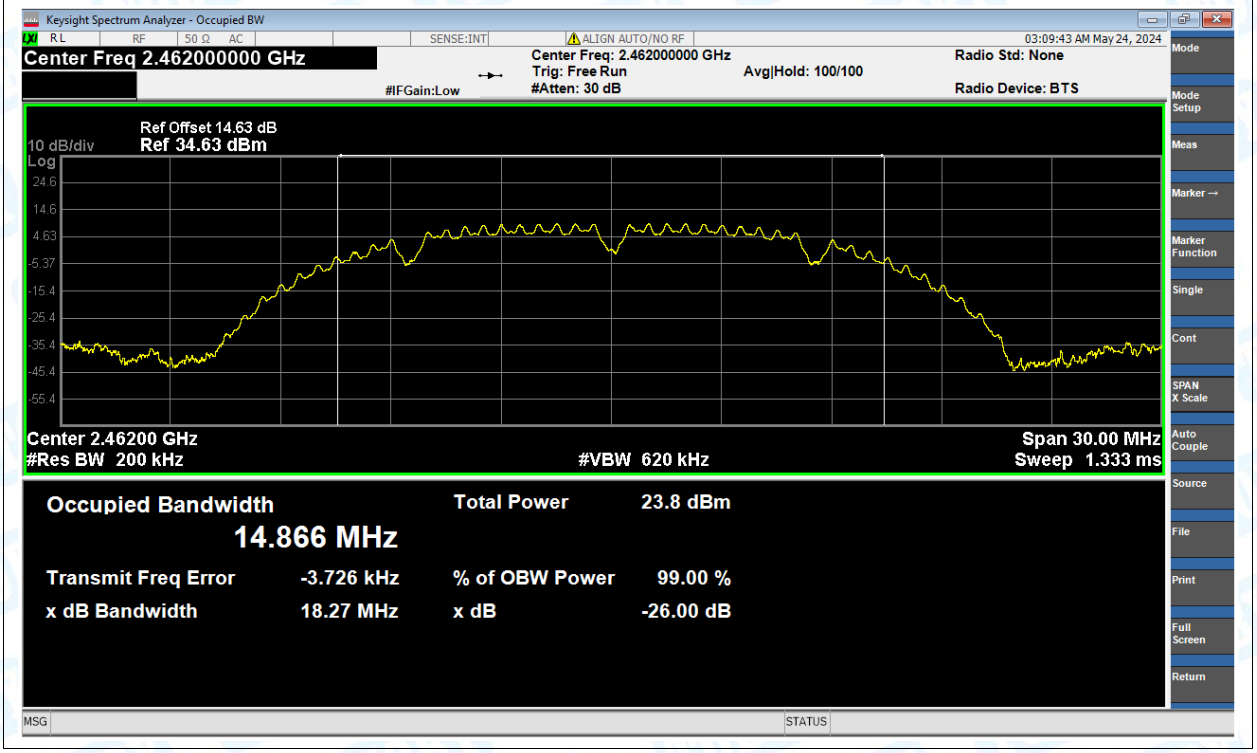
OBW NVNT b 2437MHz Ant2



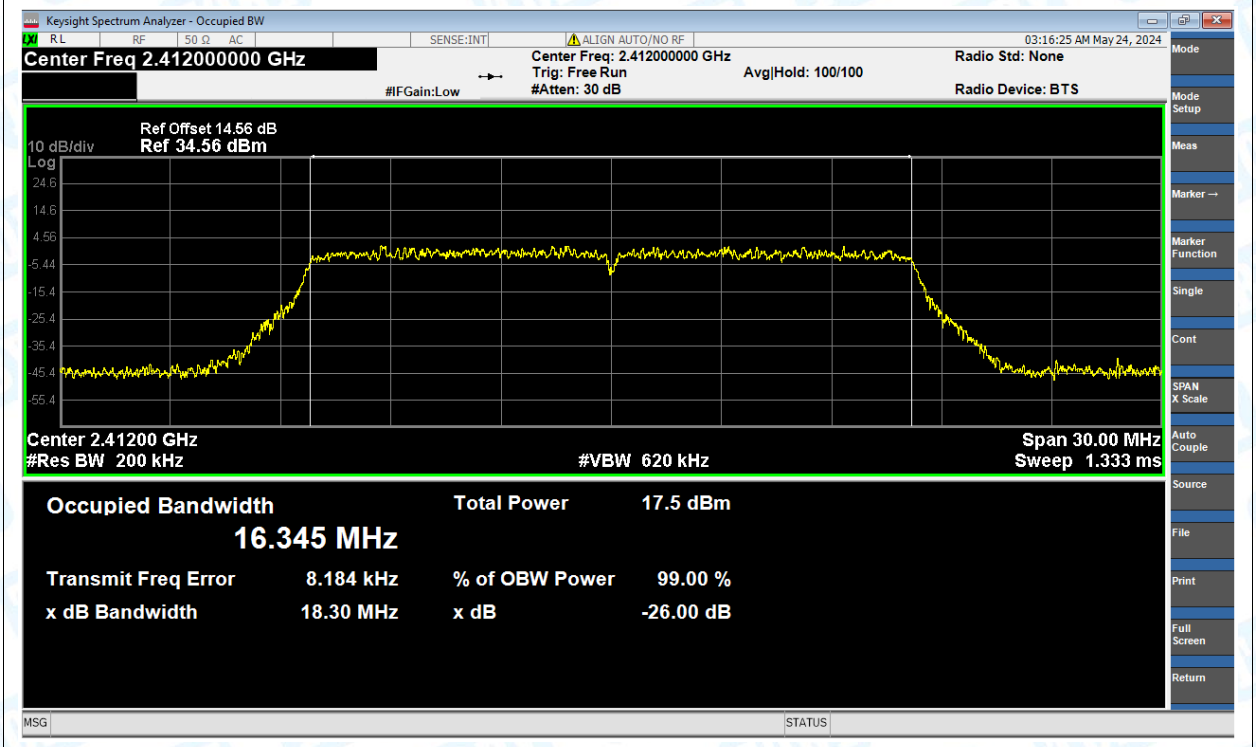
OBW NVNT b 2462MHz Ant1



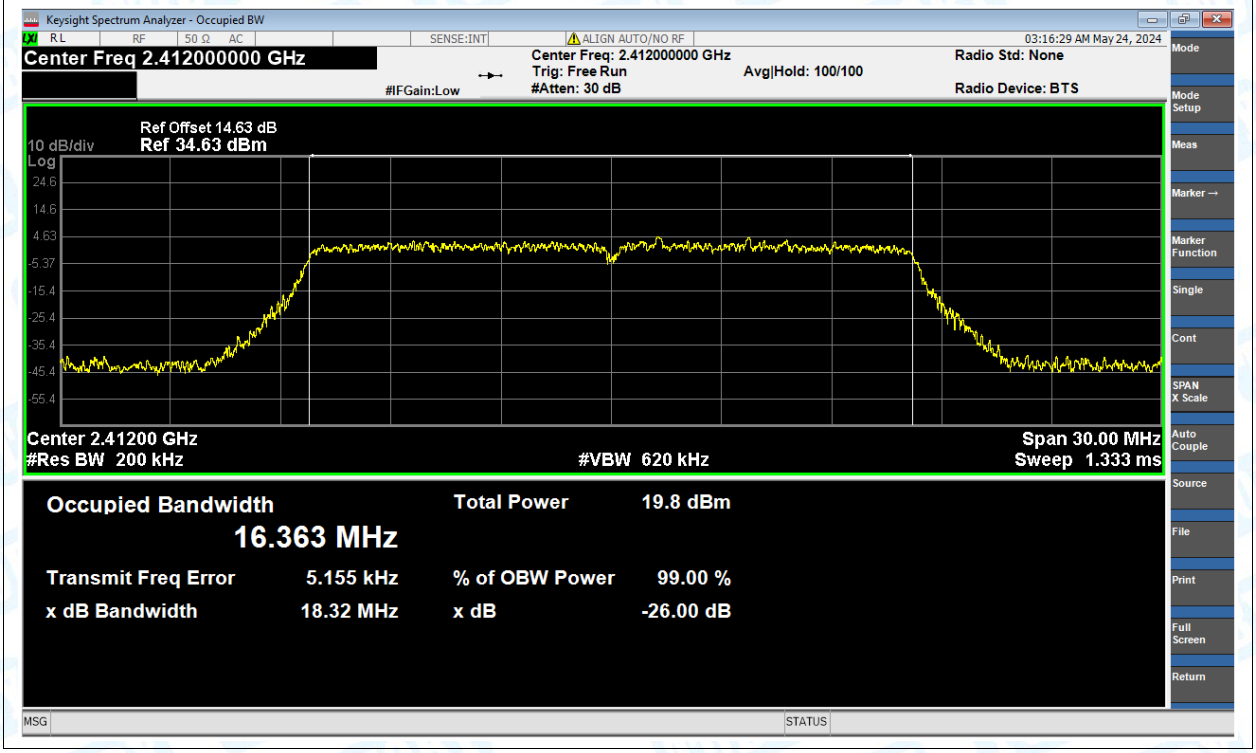
OBW NVNT b 2462MHz Ant2



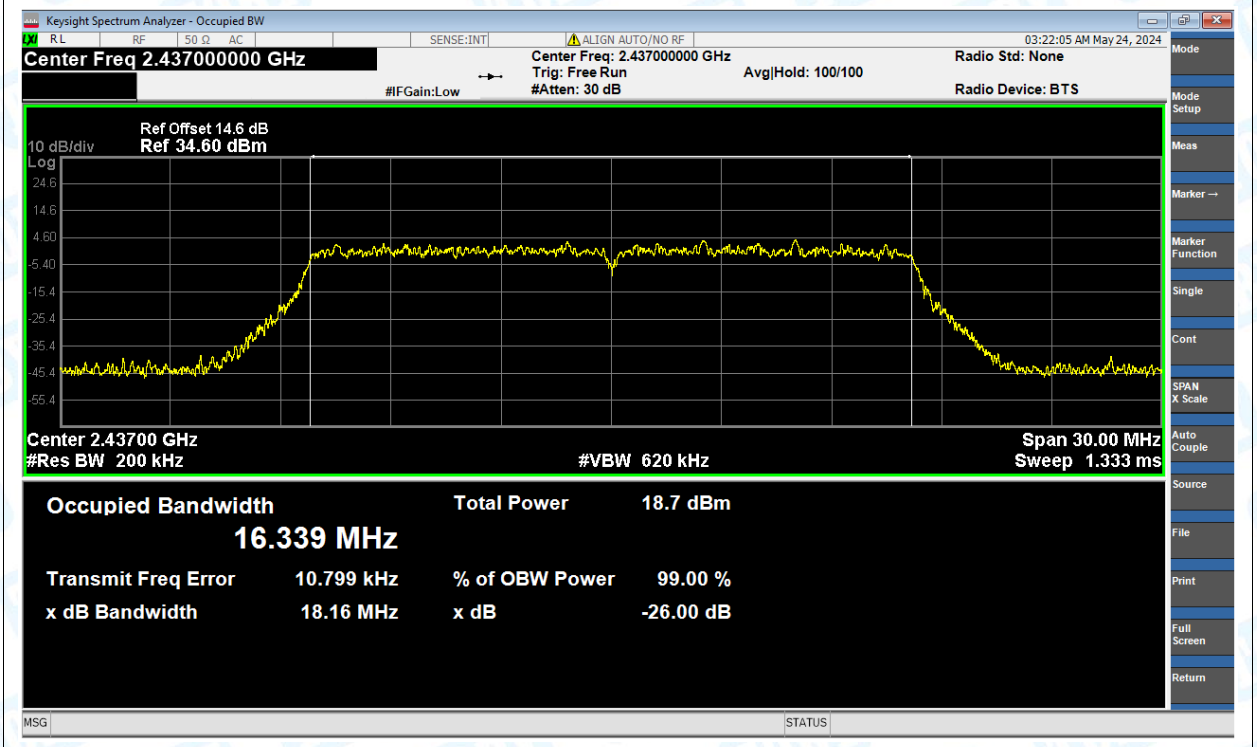
OBW NVNT g 2412MHz Ant1



OBW NVNT g 2412MHz Ant2



OBW NVNT g 2437MHz Ant1



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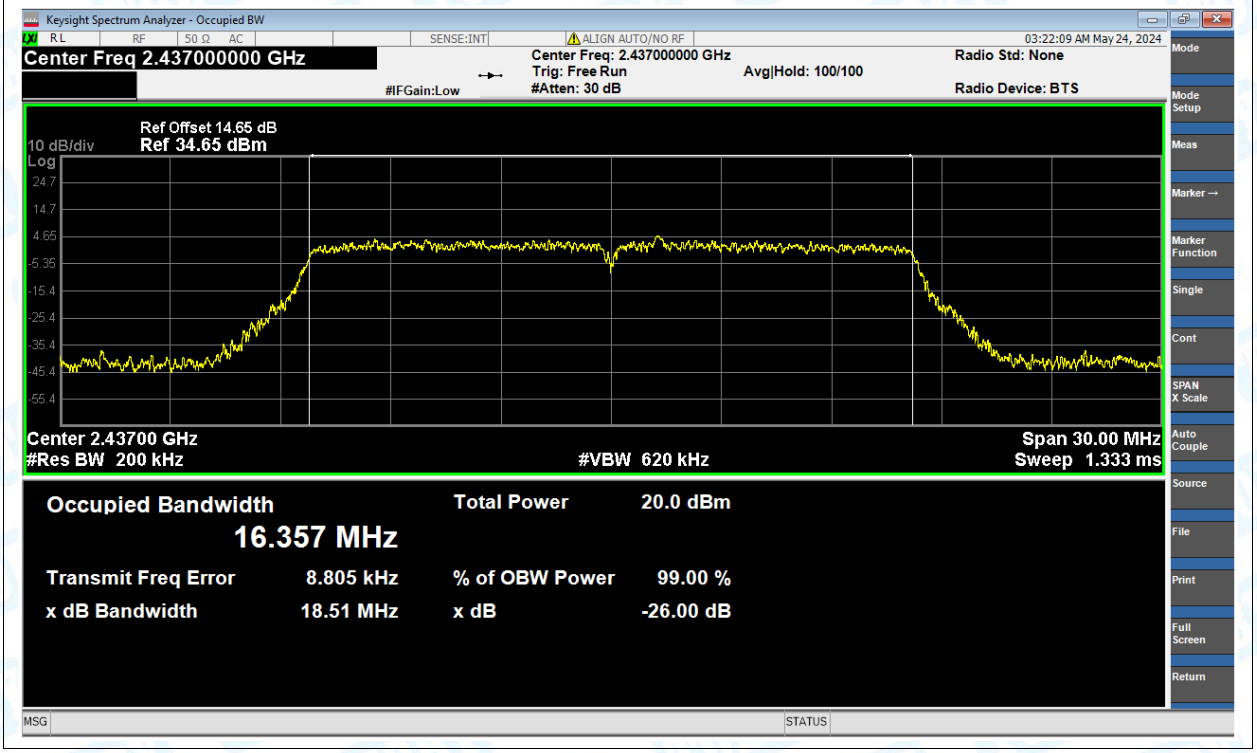
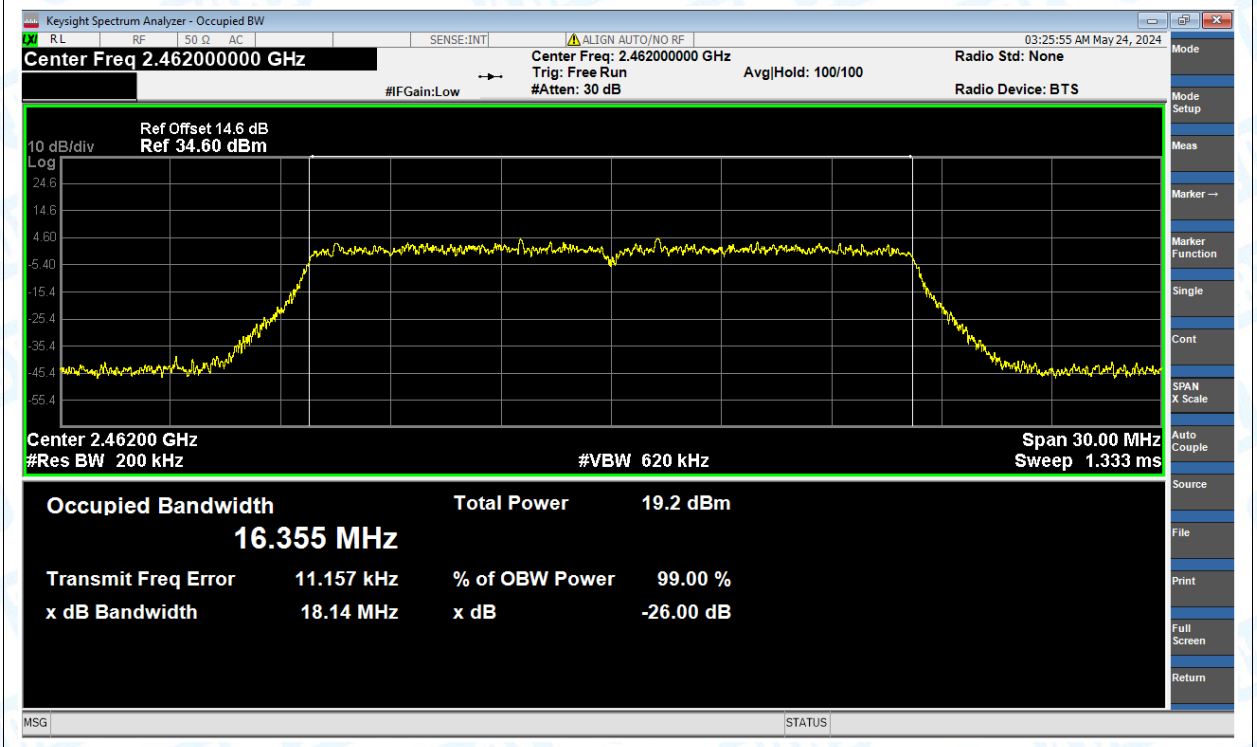
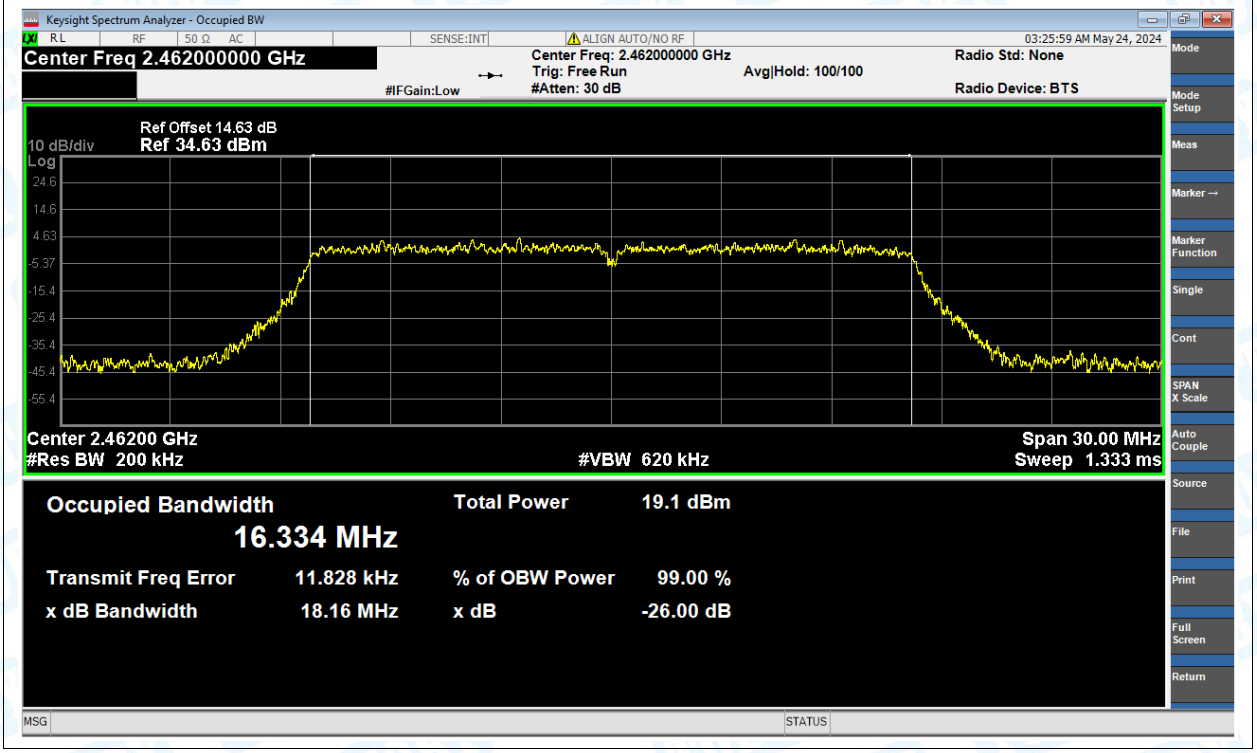


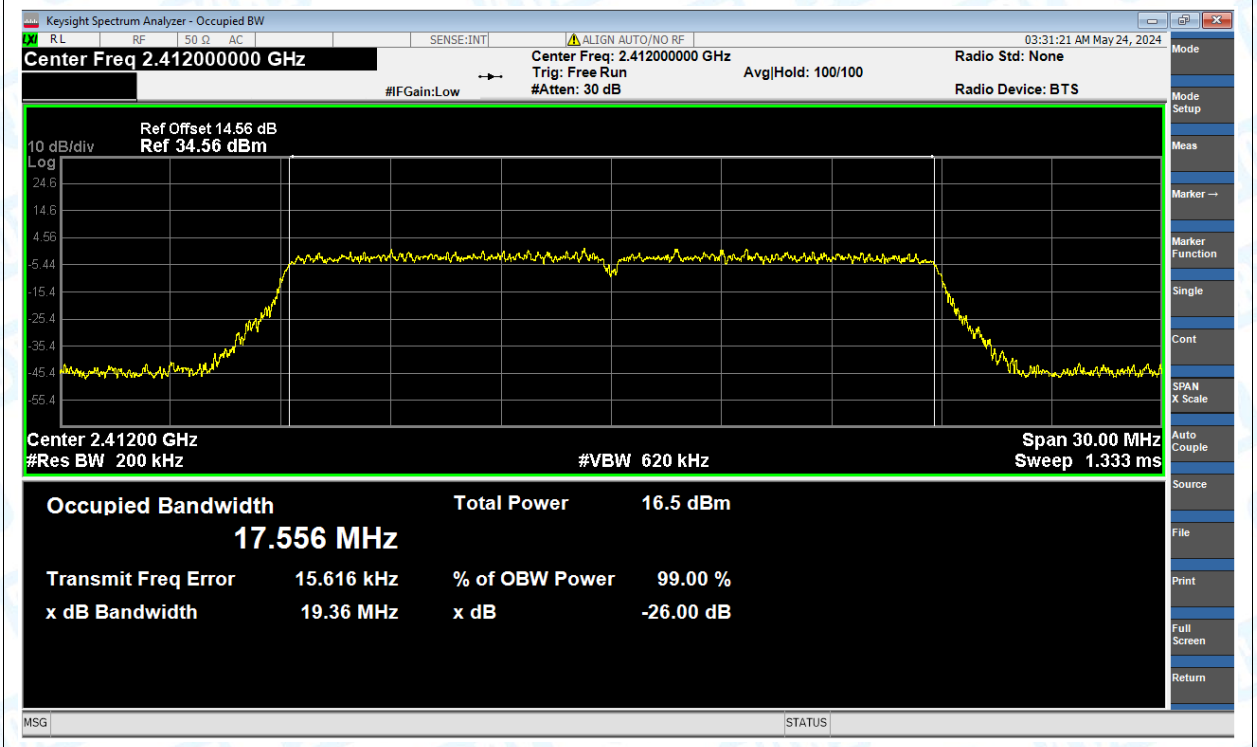
OBW NVNT g 2462MHz Ant1



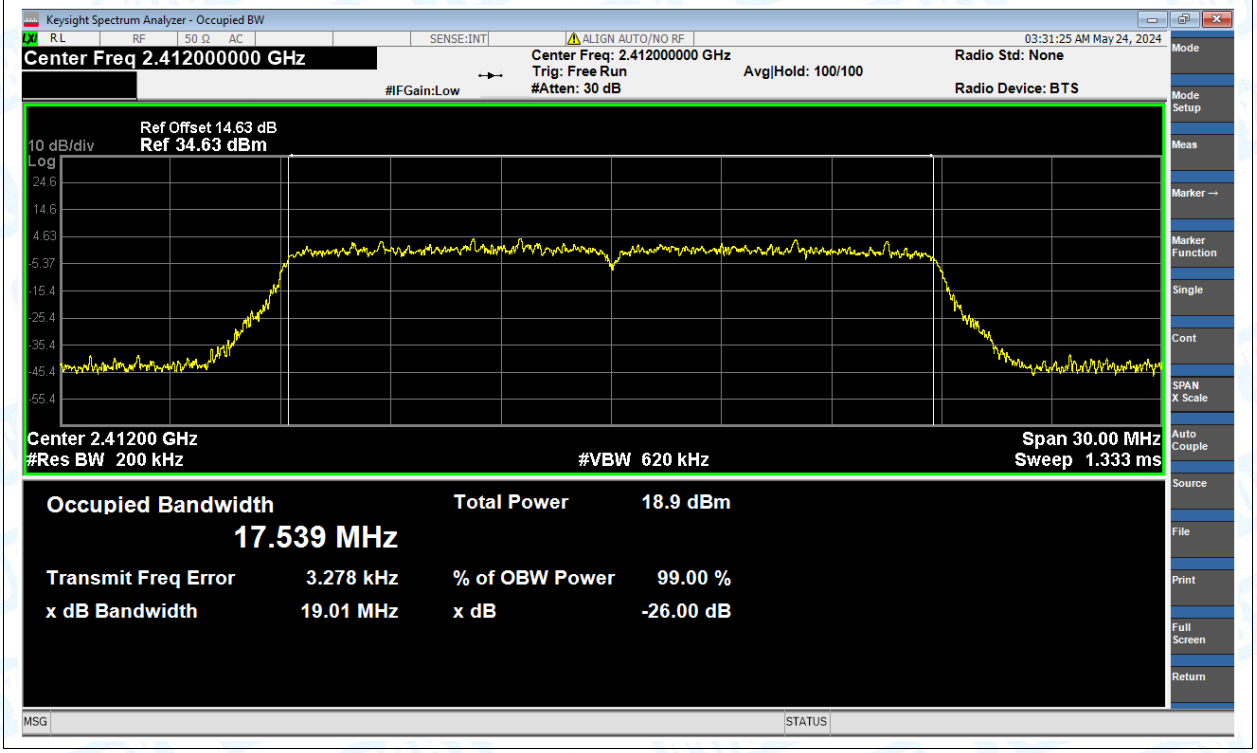
OBW NVNT g 2462MHz Ant2



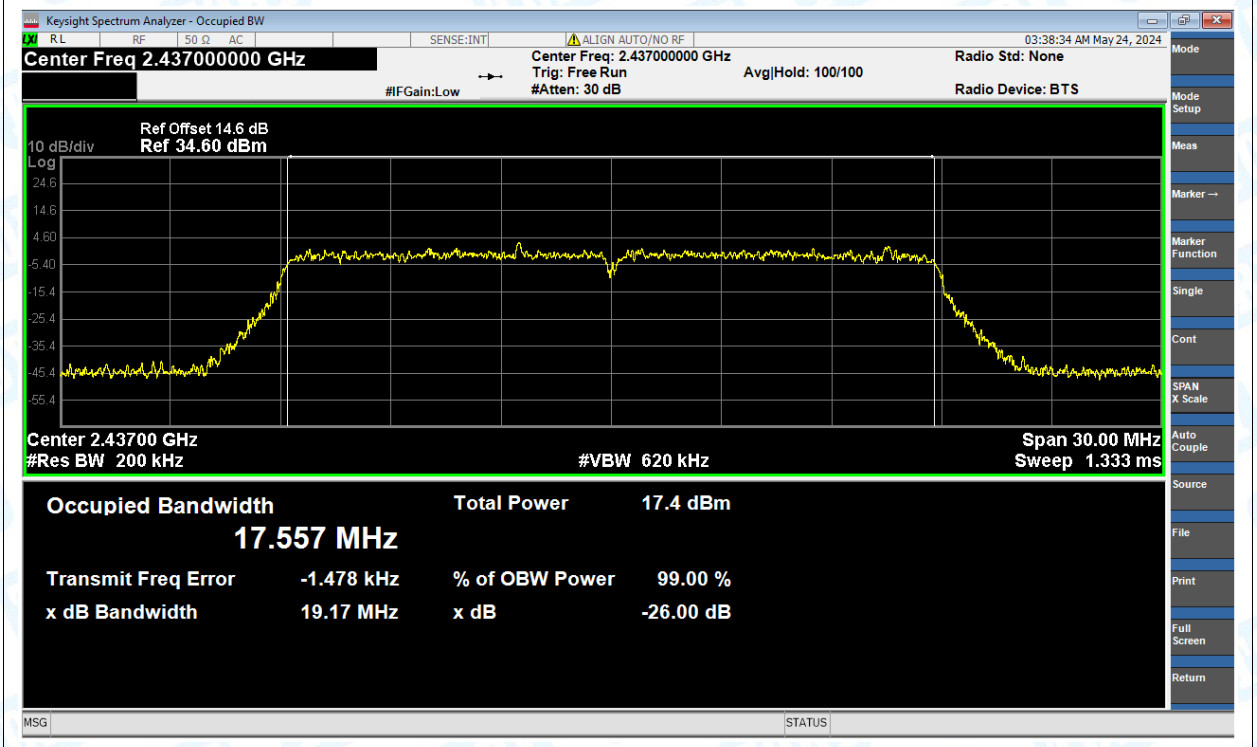
OBW NVNT n(HT20) 2412MHz Ant1



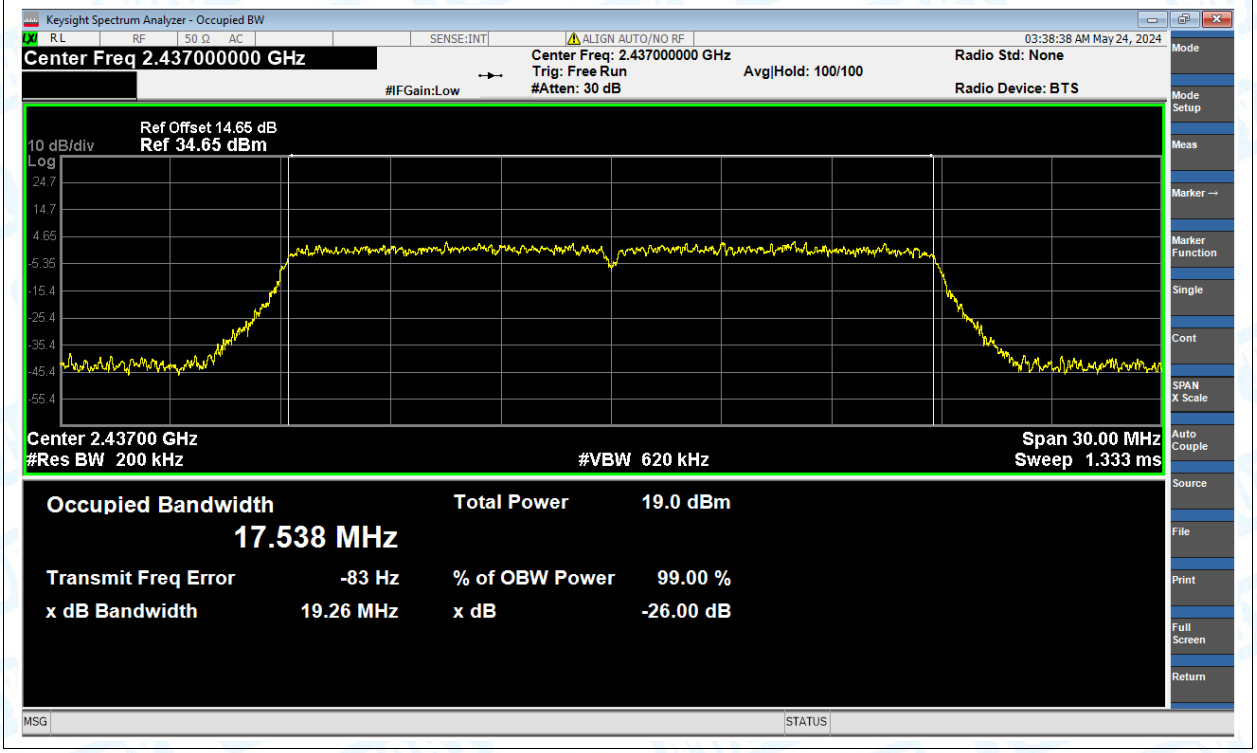
OBW NVNT n(HT20) 2412MHz Ant2



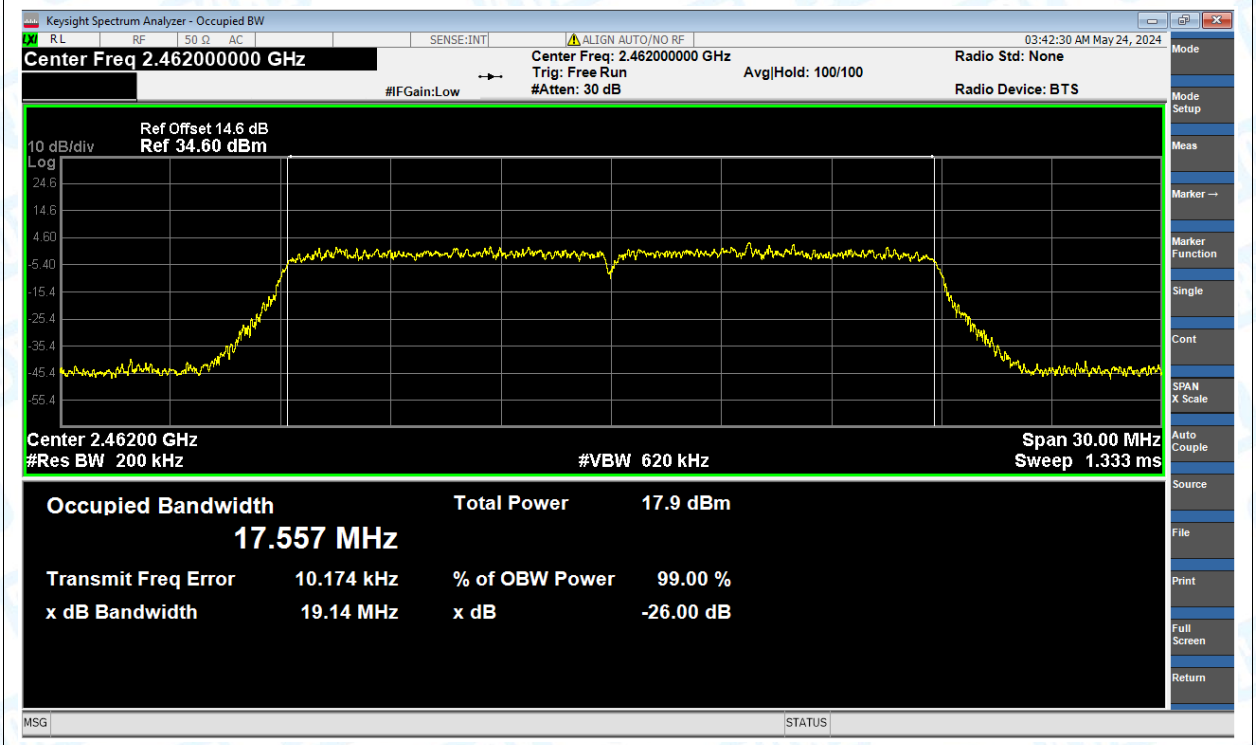
OBW NVNT n(HT20) 2437MHz Ant1



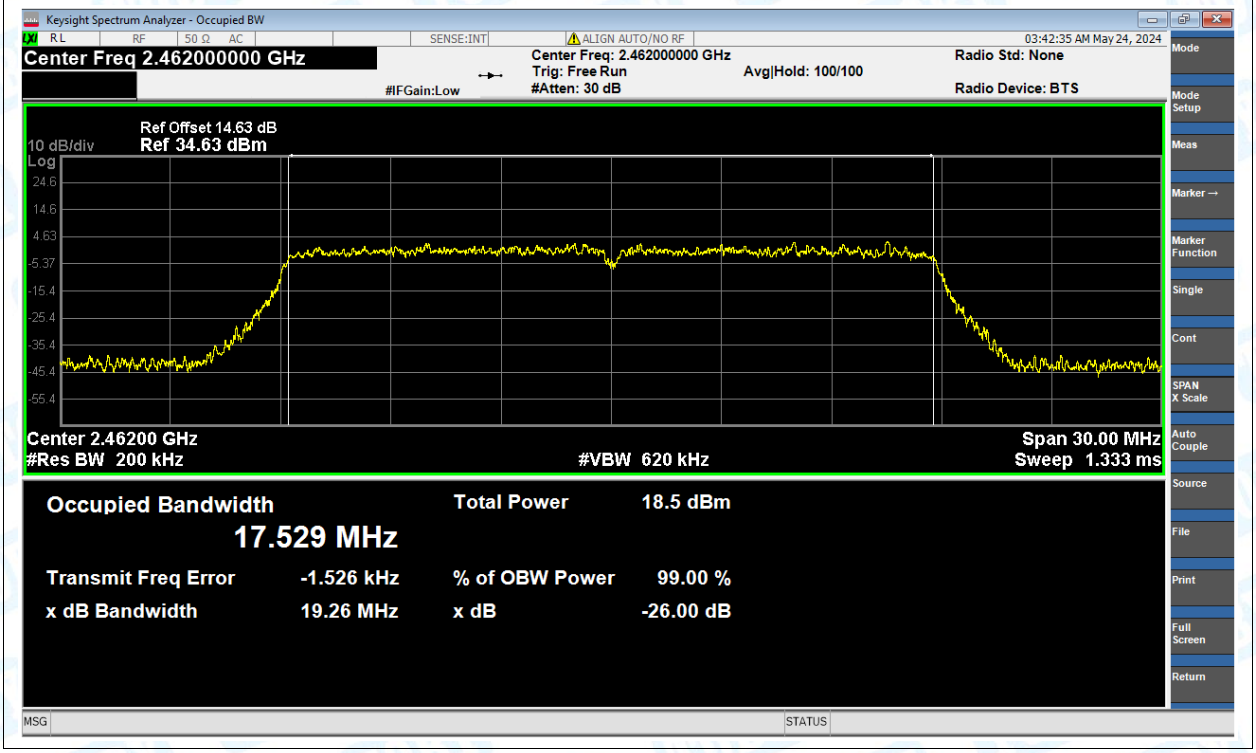
OBW NVNT n(HT20) 2437MHz Ant2



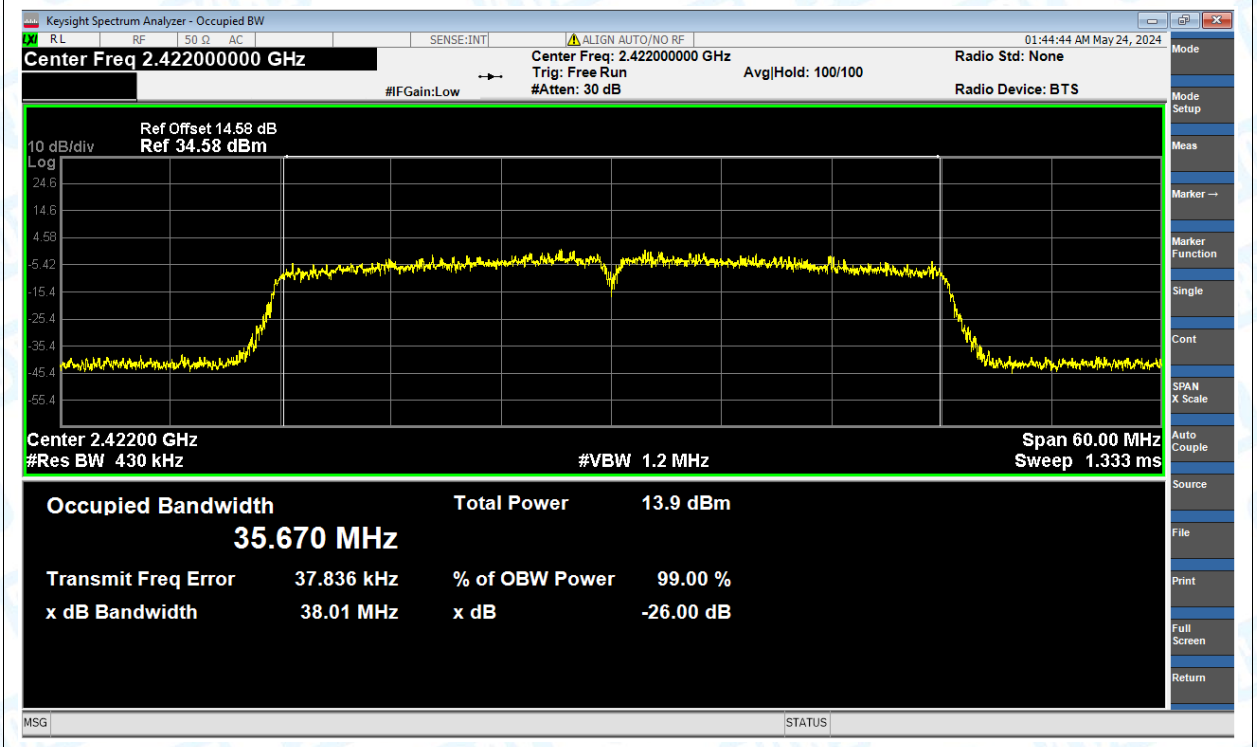
OBW NVNT n(HT20) 2462MHz Ant1



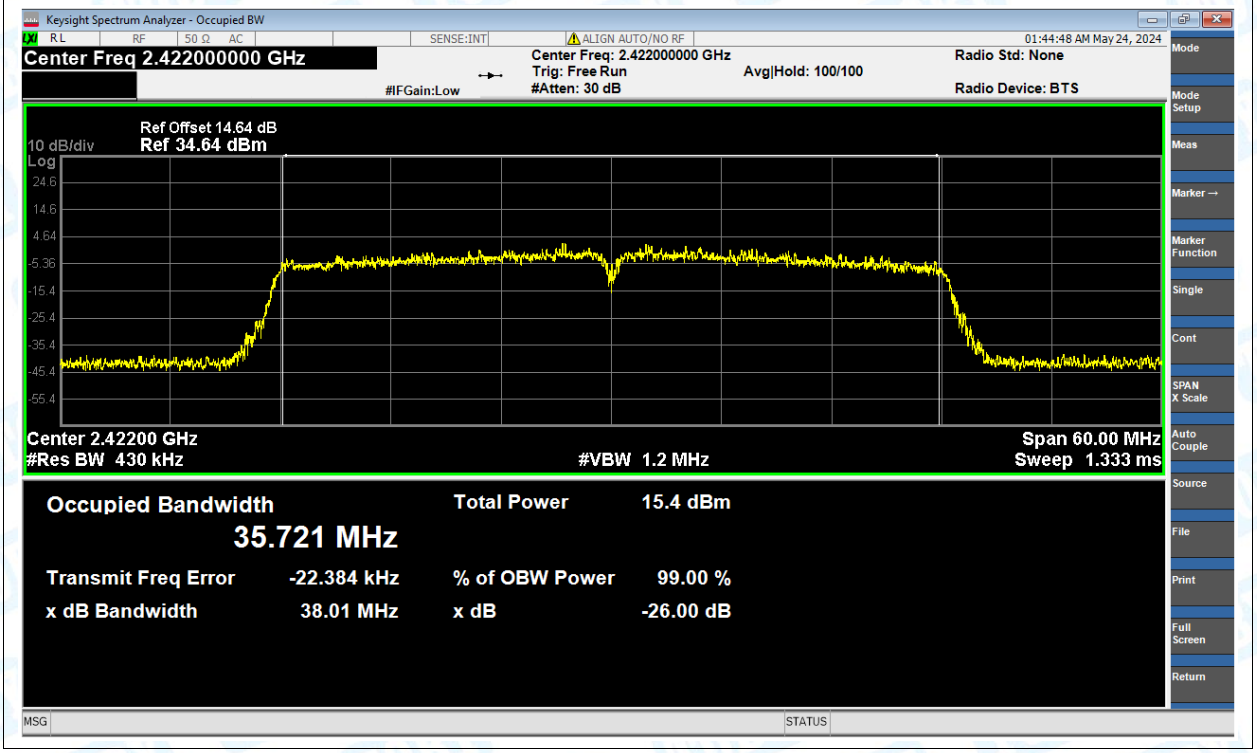
OBW NVNT n(HT20) 2462MHz Ant2



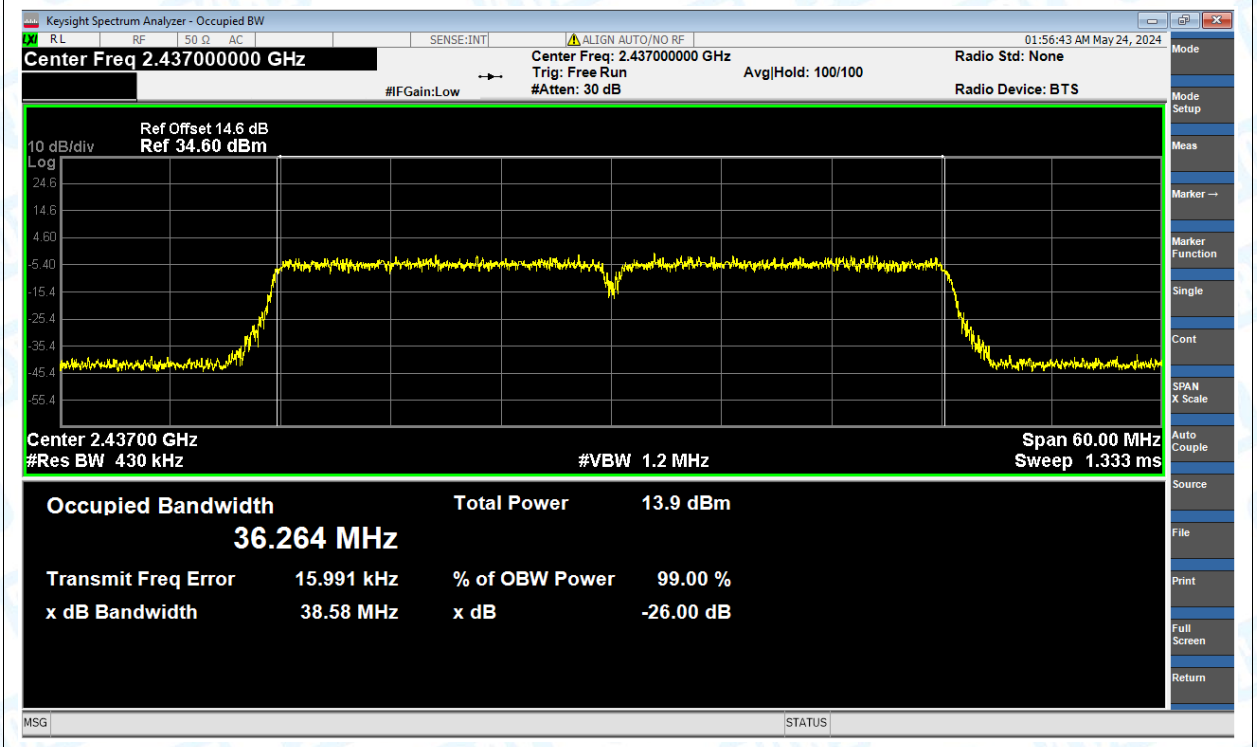
OBW NVNT n(HT40) 2422MHz Ant1



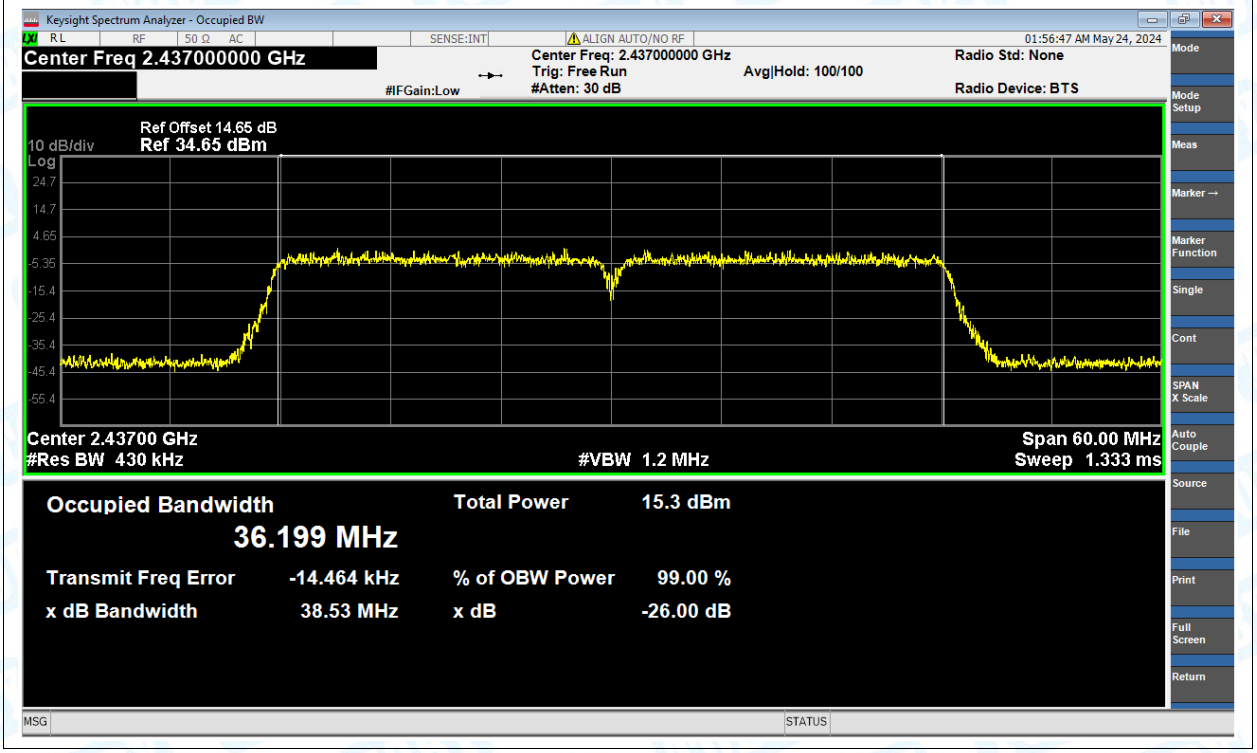
OBW NVNT n(HT40) 2422MHz Ant2



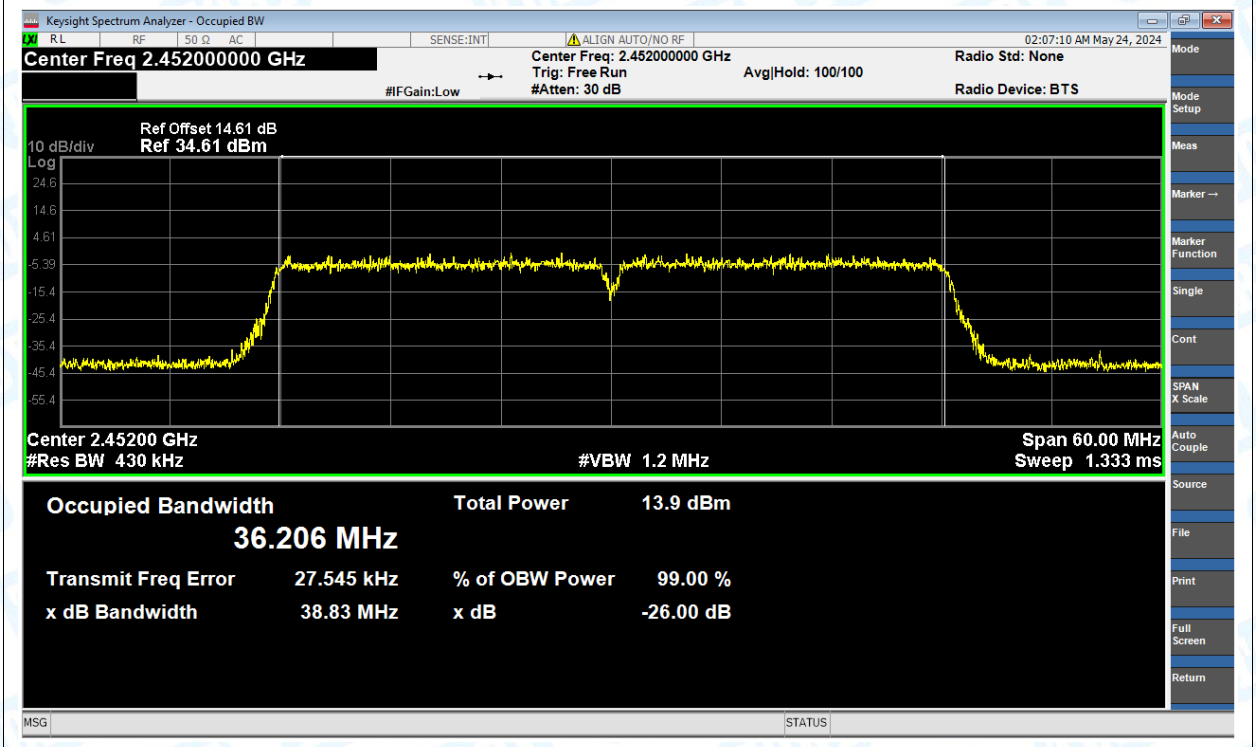
OBW NVNT n(HT40) 2437MHz Ant1



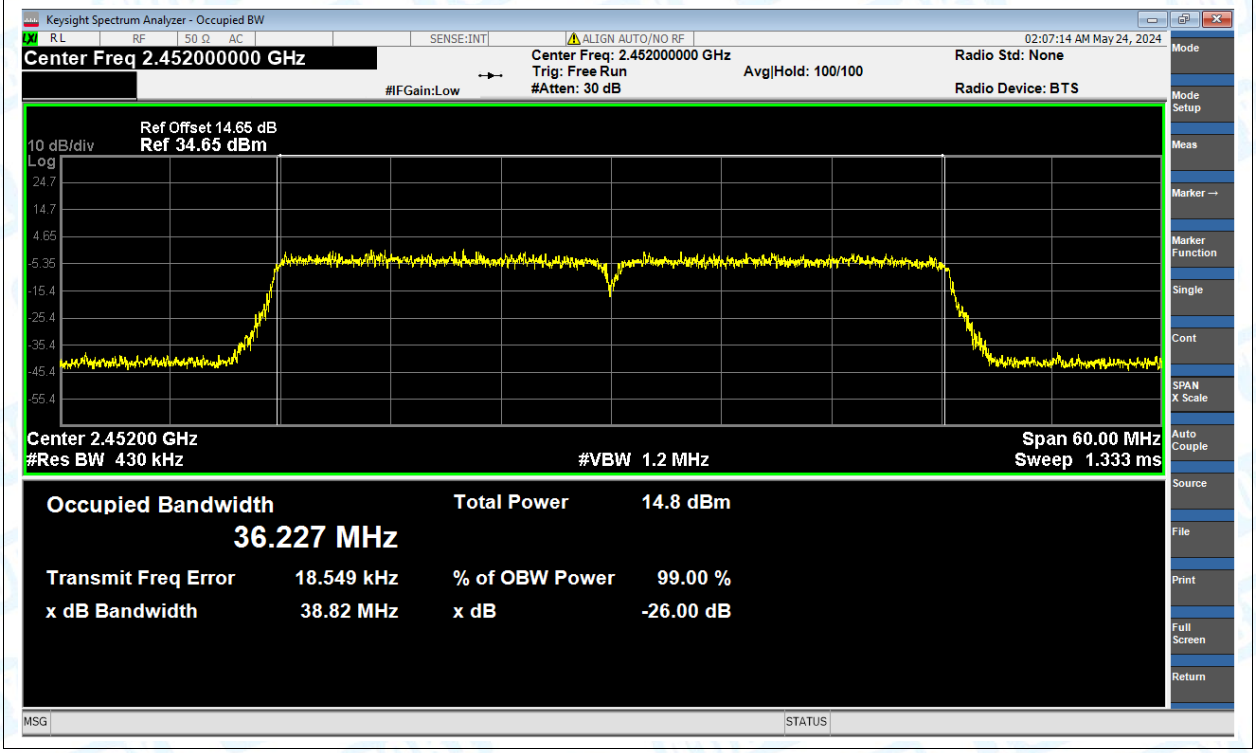
OBW NVNT n(HT40) 2437MHz Ant2



OBW NVNT n(HT40) 2452MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant2



5. Maximum Power Spectral Density Level

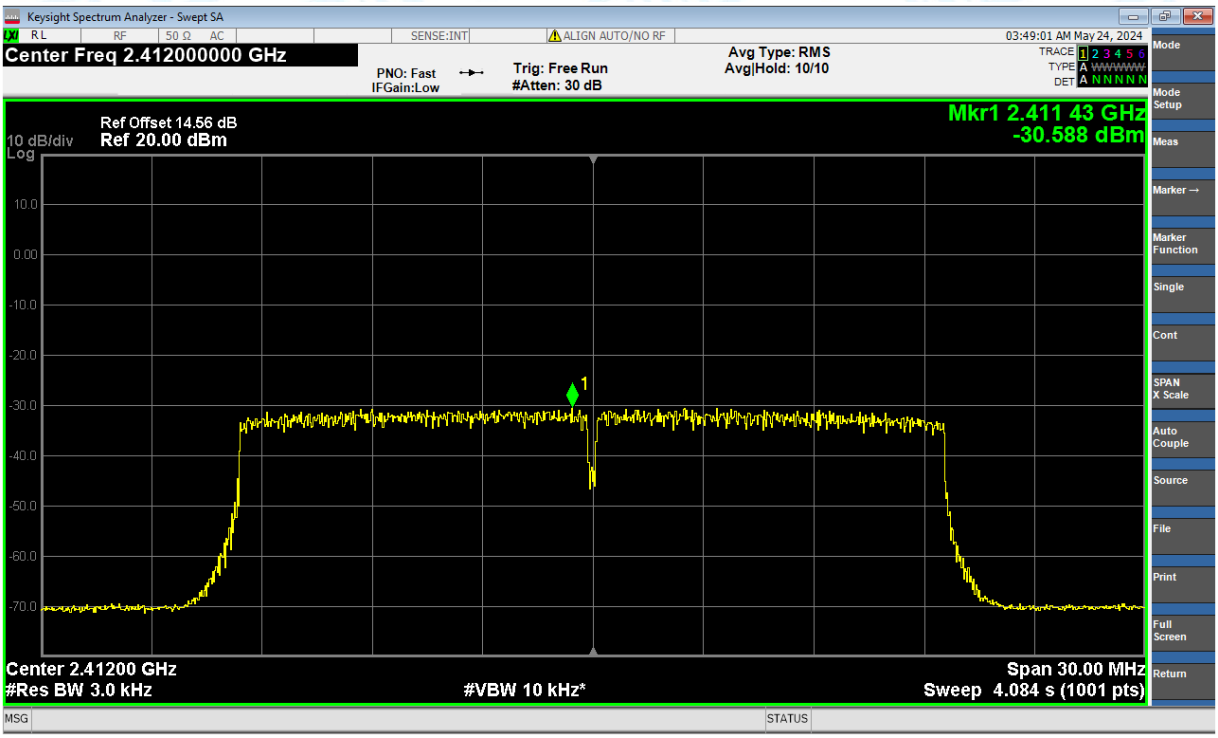
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-30.588	8	Pass
NVNT	ax(VHT20)	2412	Ant2	-27.476	8	Pass
NVNT	ax(VHT20)	2412	Sum	-25.749	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-29.591	8	Pass
NVNT	ax(VHT20)	2437	Ant2	-28.261	8	Pass
NVNT	ax(VHT20)	2437	Sum	-25.865	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-29.507	8	Pass
NVNT	ax(VHT20)	2462	Ant2	-28.457	8	Pass
NVNT	ax(VHT20)	2462	Sum	-25.94	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-37.082	8	Pass
NVNT	ax(VHT40)	2422	Ant2	-34.788	8	Pass
NVNT	ax(VHT40)	2422	Sum	-32.775	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-36.237	8	Pass
NVNT	ax(VHT40)	2437	Ant2	-34.526	8	Pass
NVNT	ax(VHT40)	2437	Sum	-32.287	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-36.304	8	Pass
NVNT	ax(VHT40)	2452	Ant2	-35.563	8	Pass
NVNT	ax(VHT40)	2452	Sum	-32.907	8	Pass
NVNT	b	2412	Ant1	-15.362	8	Pass
NVNT	b	2412	Ant2	-15.306	8	Pass
NVNT	b	2412	Sum	-12.324	8	Pass
NVNT	b	2437	Ant1	-16.343	8	Pass
NVNT	b	2437	Ant2	-14.718	8	Pass
NVNT	b	2437	Sum	-12.445	8	Pass
NVNT	b	2462	Ant1	-15.625	8	Pass
NVNT	b	2462	Ant2	-15.263	8	Pass
NVNT	b	2462	Sum	-12.43	8	Pass
NVNT	g	2412	Ant1	-26.023	8	Pass
NVNT	g	2412	Ant2	-23.721	8	Pass
NVNT	g	2412	Sum	-21.711	8	Pass
NVNT	g	2437	Ant1	-25.813	8	Pass
NVNT	g	2437	Ant2	-24.027	8	Pass
NVNT	g	2437	Sum	-21.819	8	Pass
NVNT	g	2462	Ant1	-24.723	8	Pass
NVNT	g	2462	Ant2	-24.891	8	Pass
NVNT	g	2462	Sum	-21.796	8	Pass
NVNT	n(HT20)	2412	Ant1	-27.74	8	Pass
NVNT	n(HT20)	2412	Ant2	-25.277	8	Pass
NVNT	n(HT20)	2412	Sum	-23.326	8	Pass
NVNT	n(HT20)	2437	Ant1	-27.088	8	Pass
NVNT	n(HT20)	2437	Ant2	-24.453	8	Pass
NVNT	n(HT20)	2437	Sum	-22.563	8	Pass
NVNT	n(HT20)	2462	Ant1	-27.02	8	Pass

NVNT	n(HT20)	2462	Ant2	-26.101	8	Pass
NVNT	n(HT20)	2462	Sum	-23.526	8	Pass
NVNT	n(HT40)	2422	Ant1	-35.155	8	Pass
NVNT	n(HT40)	2422	Ant2	-33.347	8	Pass
NVNT	n(HT40)	2422	Sum	-31.147	8	Pass
NVNT	n(HT40)	2437	Ant1	-36.241	8	Pass
NVNT	n(HT40)	2437	Ant2	-34.111	8	Pass
NVNT	n(HT40)	2437	Sum	-32.036	8	Pass
NVNT	n(HT40)	2452	Ant1	-36.338	8	Pass
NVNT	n(HT40)	2452	Ant2	-34.226	8	Pass
NVNT	n(HT40)	2452	Sum	-32.145	8	Pass

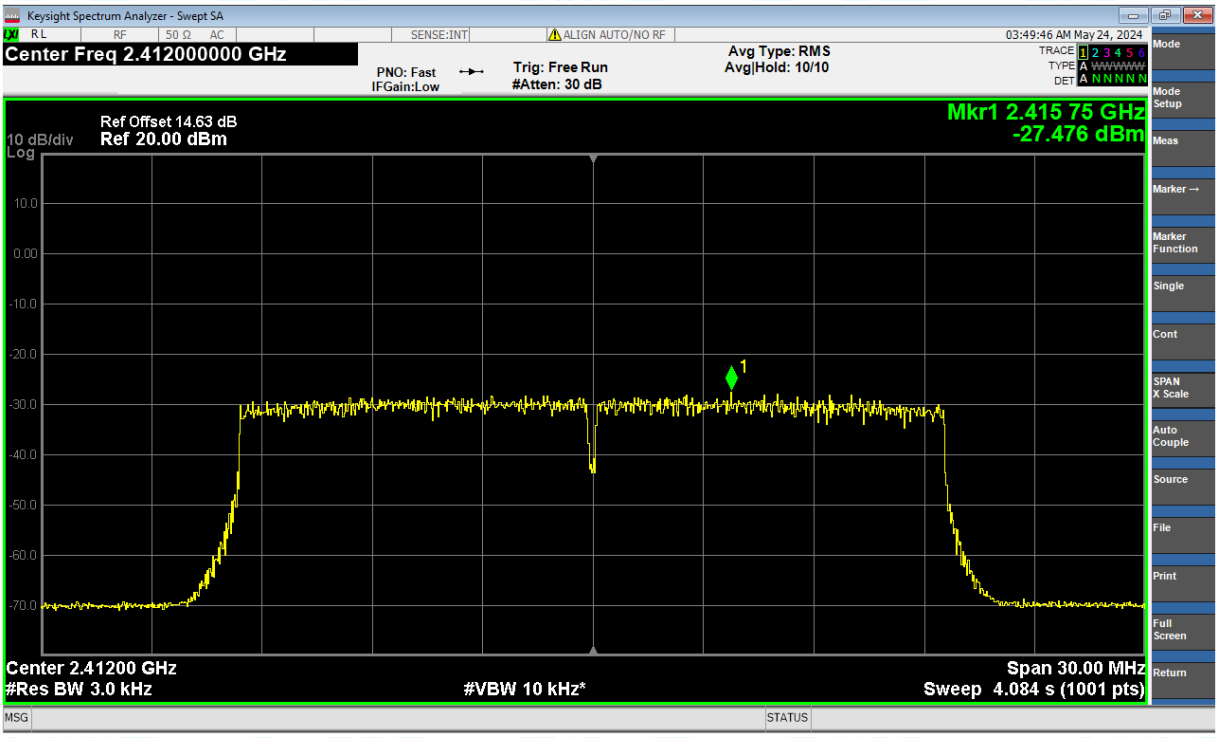
Note：The Duty Cycle Factor is compensated in the graph.

Test Graphs

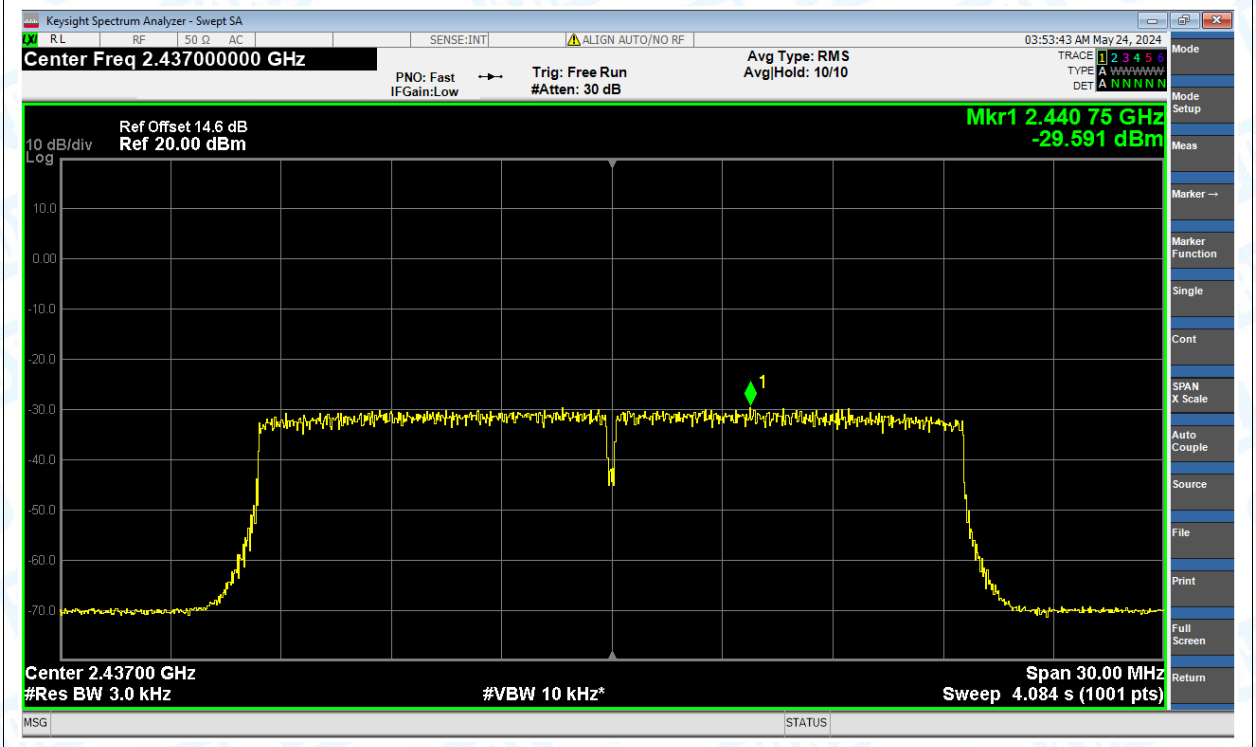
PSD NVNT ax(VHT20) 2412MHz Ant1



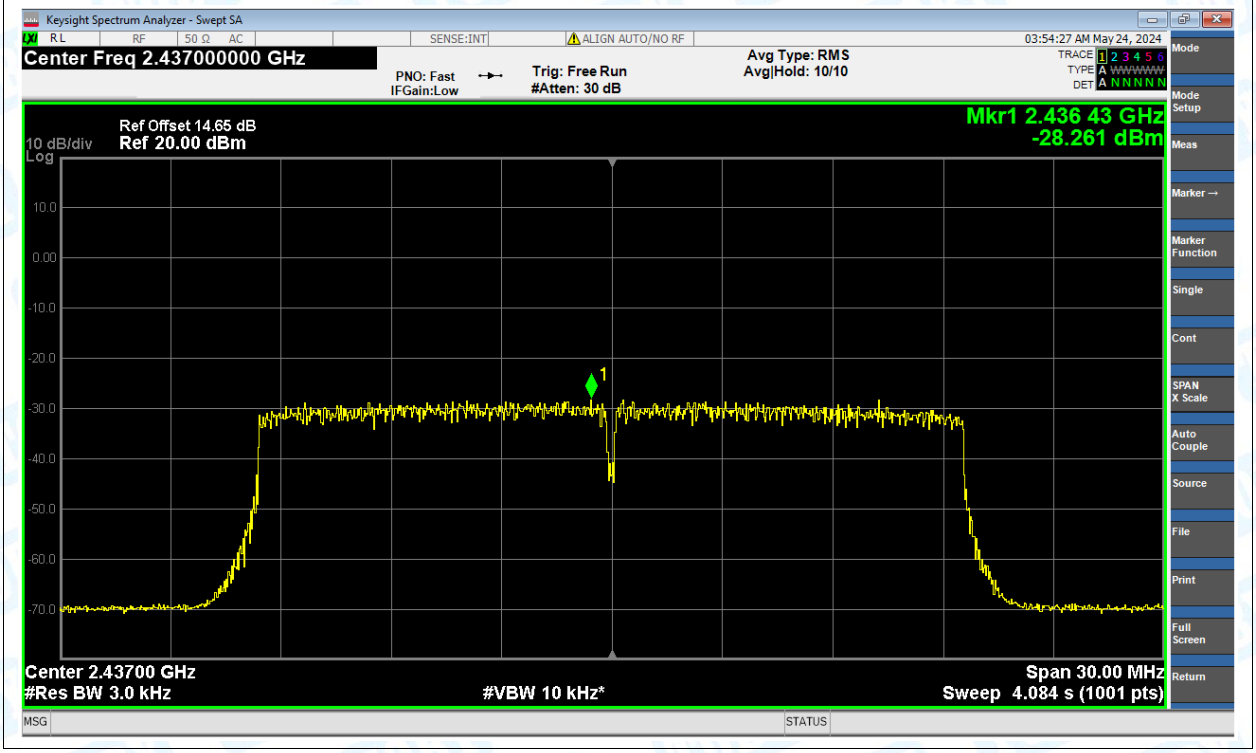
PSD NVNT ax(VHT20) 2412MHz Ant2



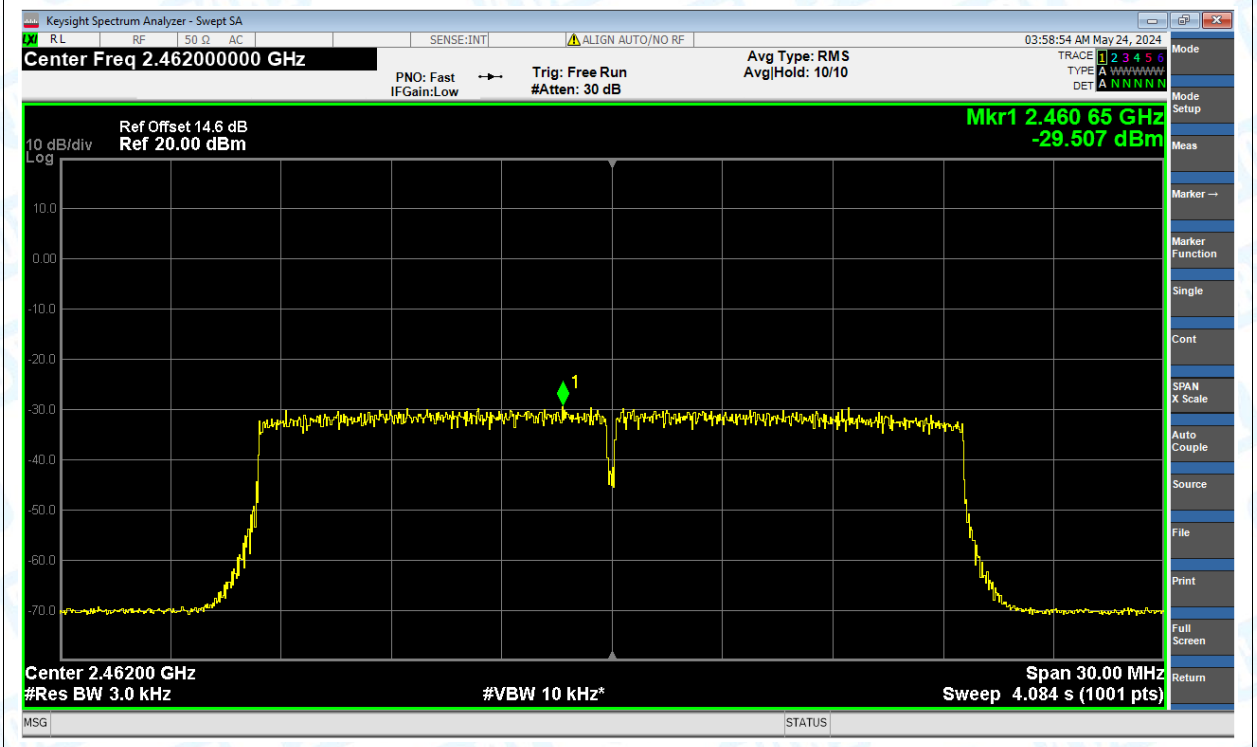
PSD NVNT ax(VHT20) 2437MHz Ant1



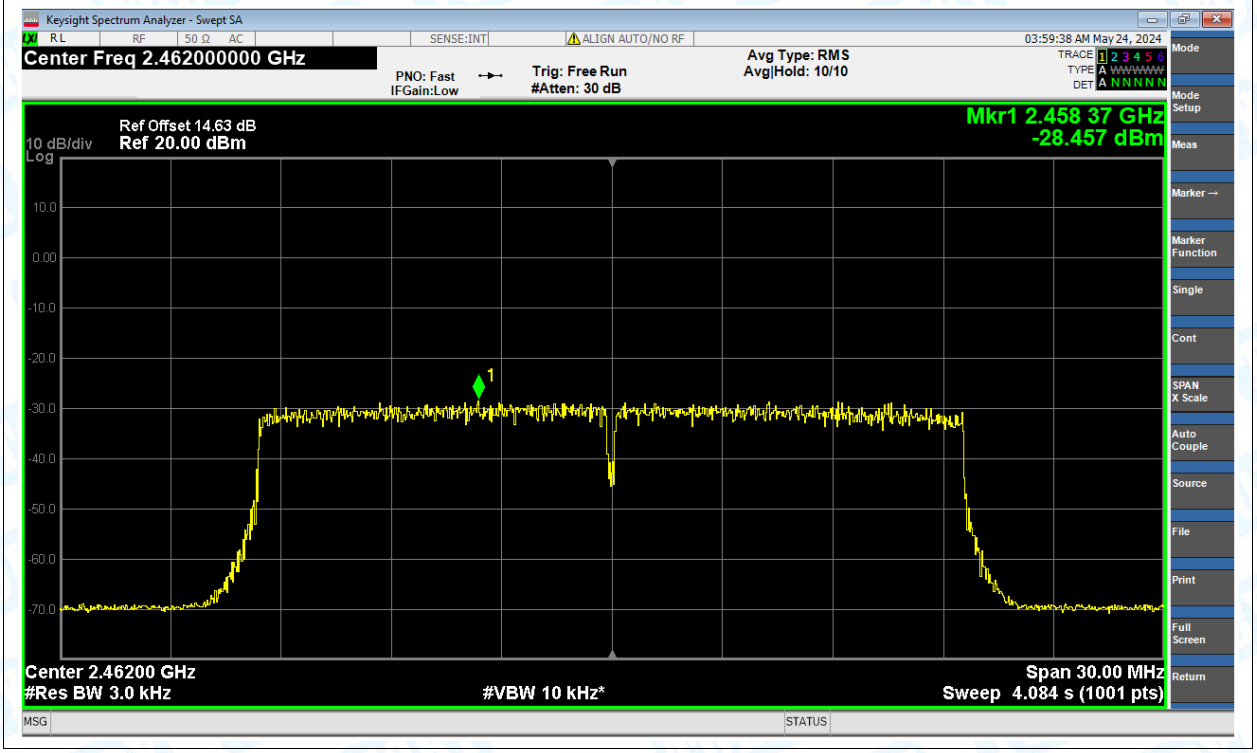
PSD NVNT ax(VHT20) 2437MHz Ant2



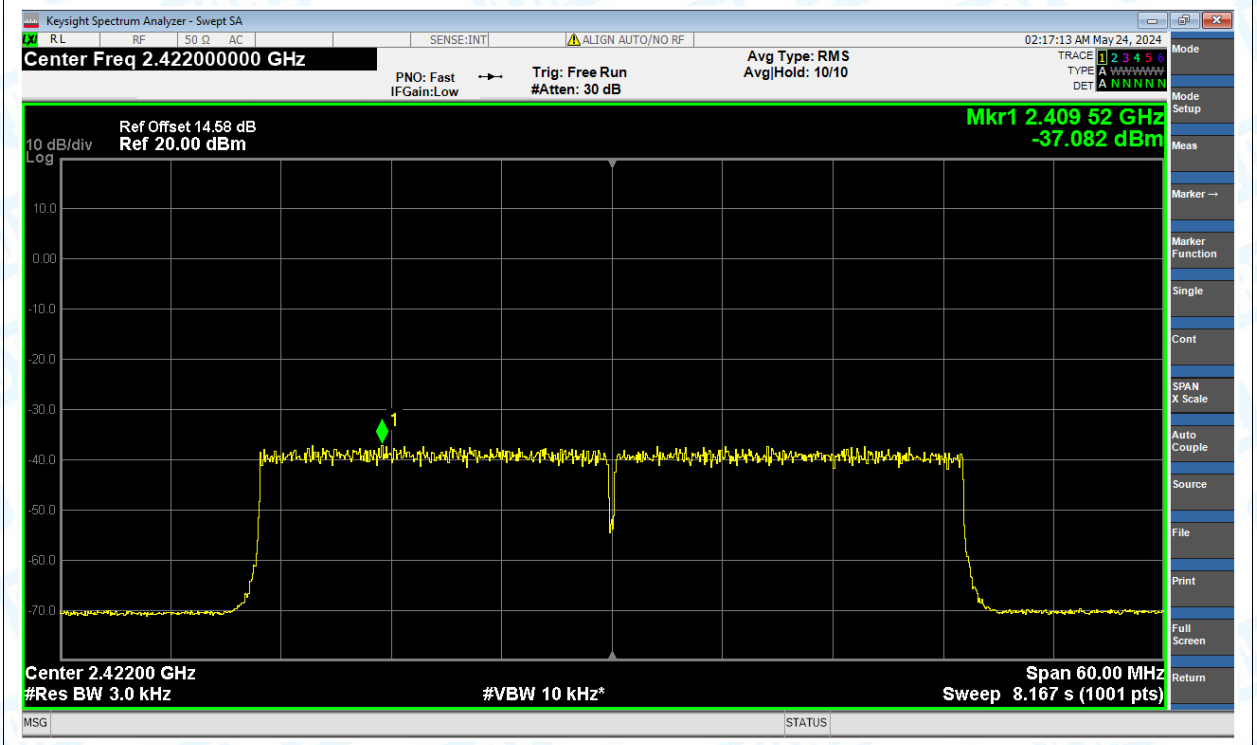
PSD NVNT ax(VHT20) 2462MHz Ant1



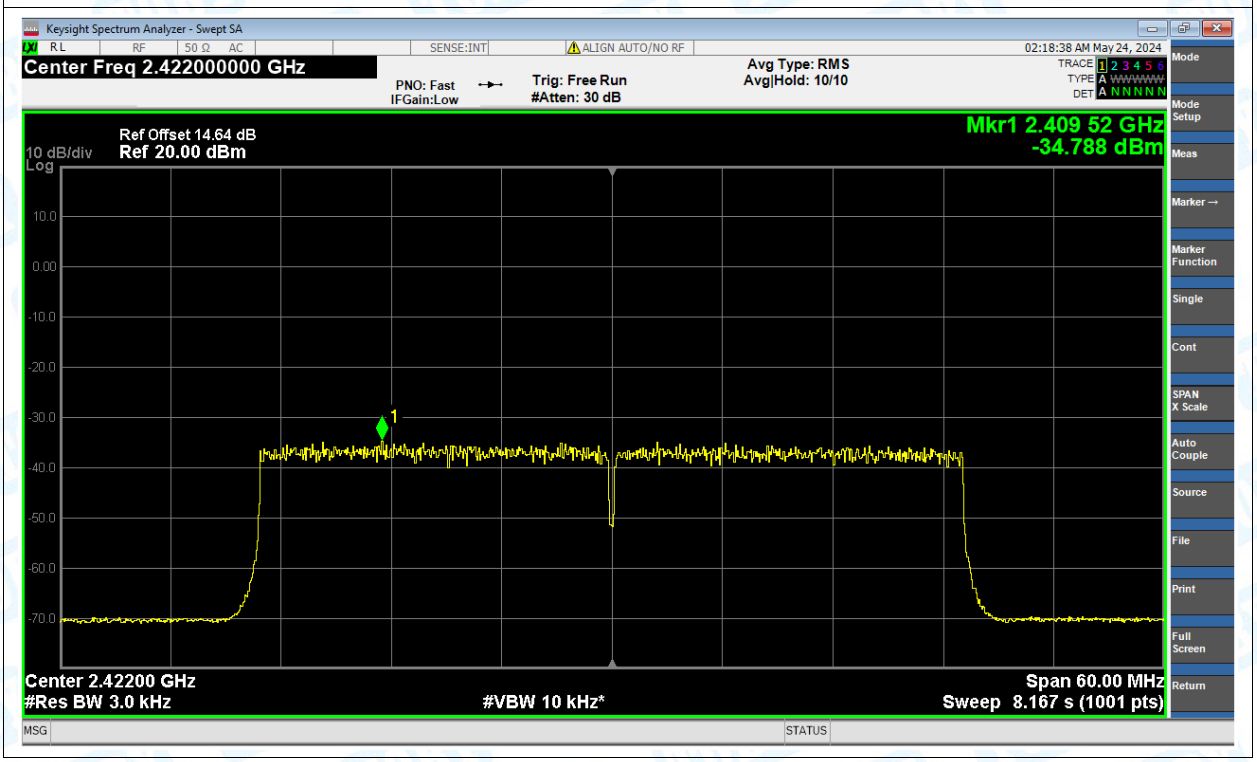
PSD NVNT ax(VHT20) 2462MHz Ant2



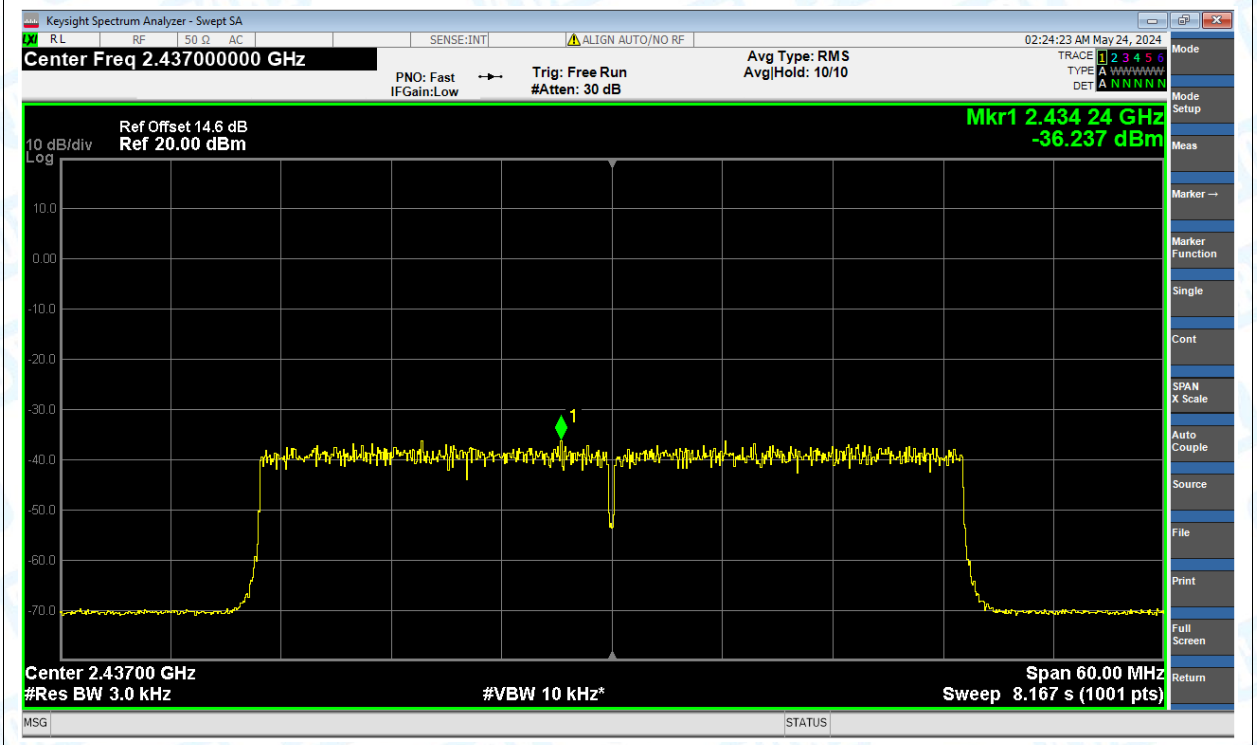
PSD NVNT ax(VHT40) 2422MHz Ant1



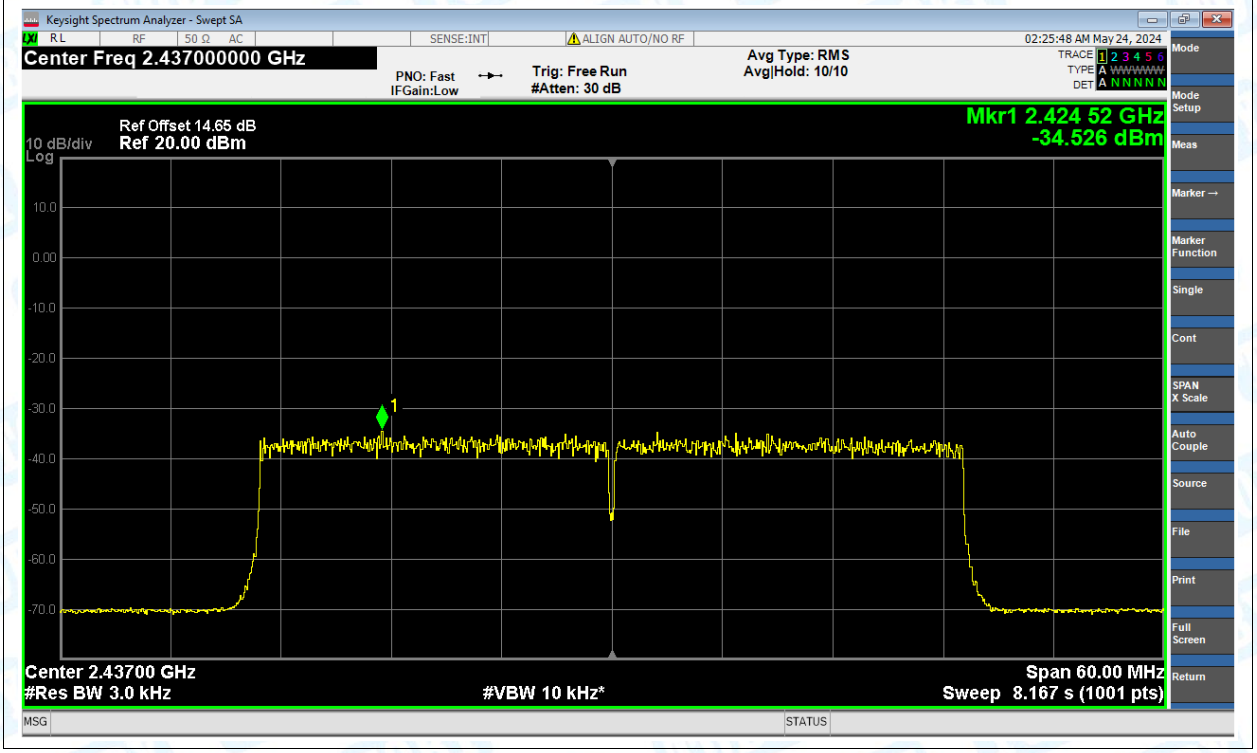
PSD NVNT ax(VHT40) 2422MHz Ant2



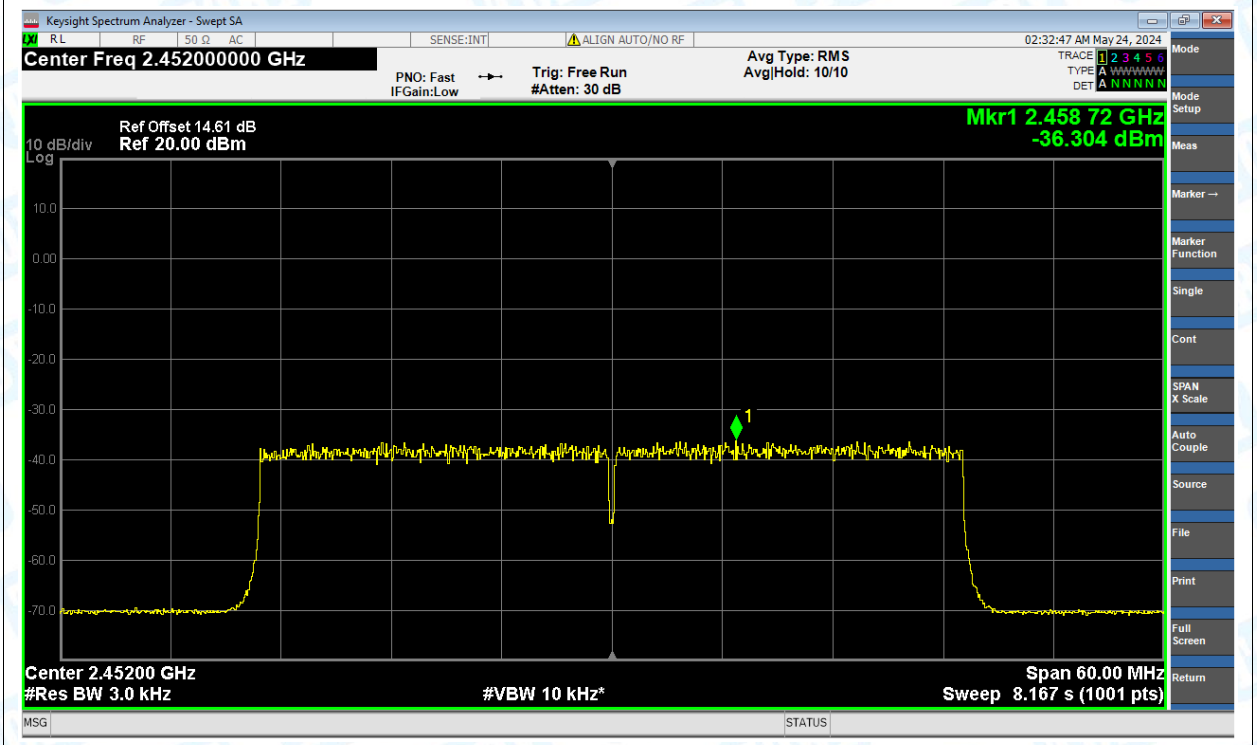
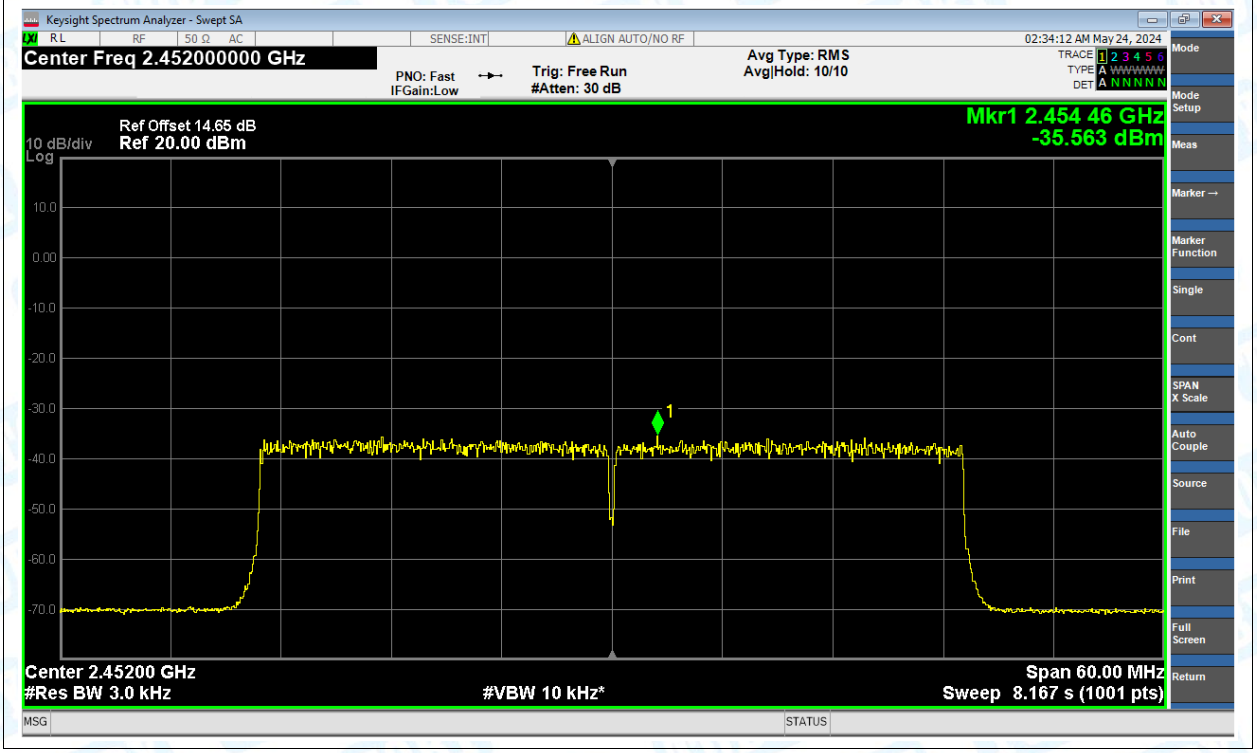
PSD NVNT ax(VHT40) 2437MHz Ant1



PSD NVNT ax(VHT40) 2437MHz Ant2



PSD NVNT ax(VHT40) 2452MHz Ant1



PSD NVNT ax(VHT40) 2452MHz Ant2