

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Outdoor Wi-Fi Camera
Test Model:	CM-PT2WU
Sample ID:	HC-C-202603-0006-01-01#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 3.6V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202603-0006-61 The report only show the worst case data.	

Contents

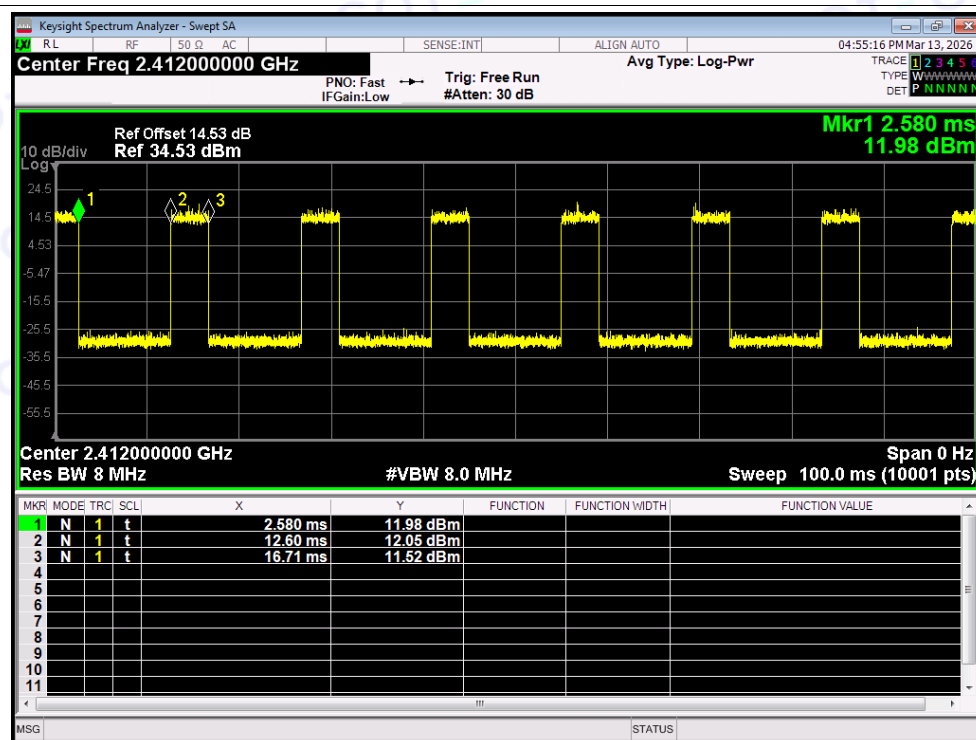
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1. Duty Cycle

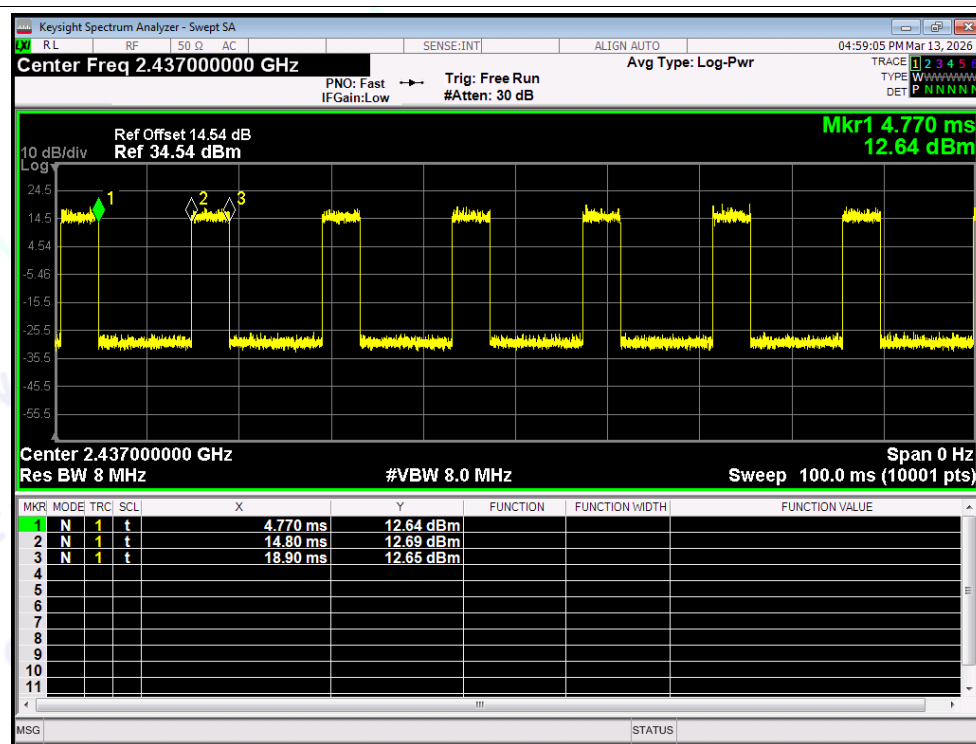
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(HE20)	2412	Ant1	29.09	5.36	0.24
NVNT	ax(HE20)	2437	Ant1	29.02	5.37	0.24
NVNT	ax(HE20)	2462	Ant1	29.02	5.37	0.24
NVNT	ax(HE40)	2422	Ant1	29.02	5.37	0.24
NVNT	ax(HE40)	2437	Ant1	29.02	5.37	0.24
NVNT	ax(HE40)	2452	Ant1	29.04	5.37	0.24
NVNT	b	2412	Ant1	45.66	3.4	0.12
NVNT	b	2437	Ant1	45.61	3.41	0.12
NVNT	b	2462	Ant1	45.63	3.41	0.12
NVNT	g	2412	Ant1	12.17	9.15	0.72
NVNT	g	2437	Ant1	12.26	9.12	0.71
NVNT	g	2462	Ant1	12.17	9.15	0.72
NVNT	n(HT20)	2412	Ant1	31.35	5.04	0.22
NVNT	n(HT20)	2437	Ant1	33.62	4.73	0.2
NVNT	n(HT20)	2462	Ant1	33.66	4.73	0.2
NVNT	n(HT40)	2422	Ant1	32.82	4.84	0.2
NVNT	n(HT40)	2437	Ant1	32.77	4.85	0.2
NVNT	n(HT40)	2452	Ant1	32.77	4.85	0.2

Test Graphs

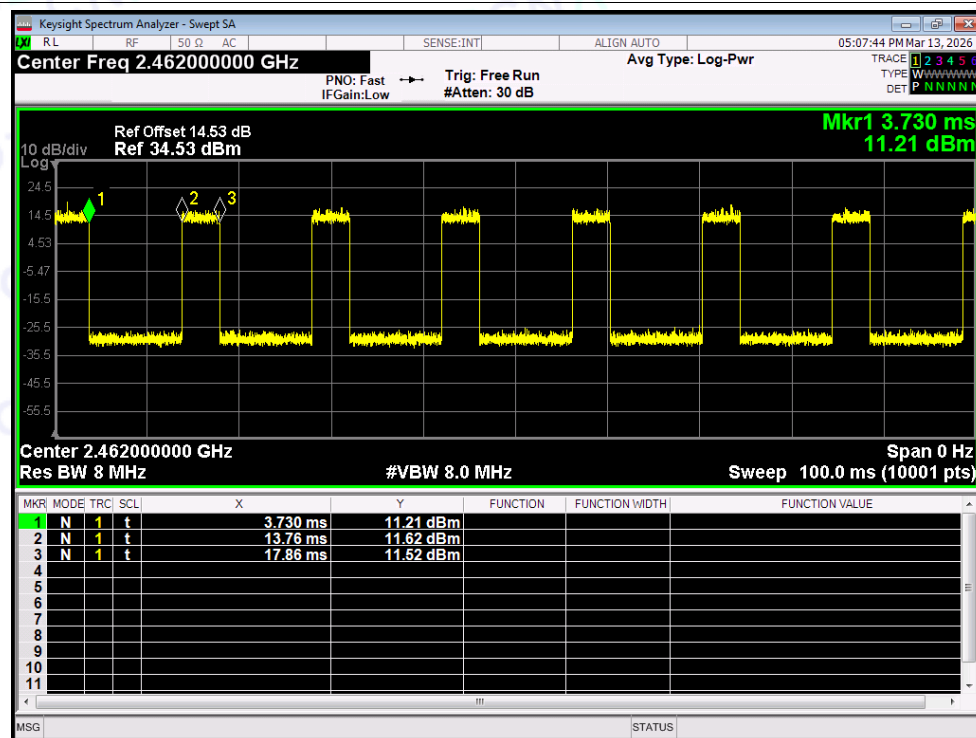
Duty Cycle NVNT ax(HE20) 2412MHz Ant1



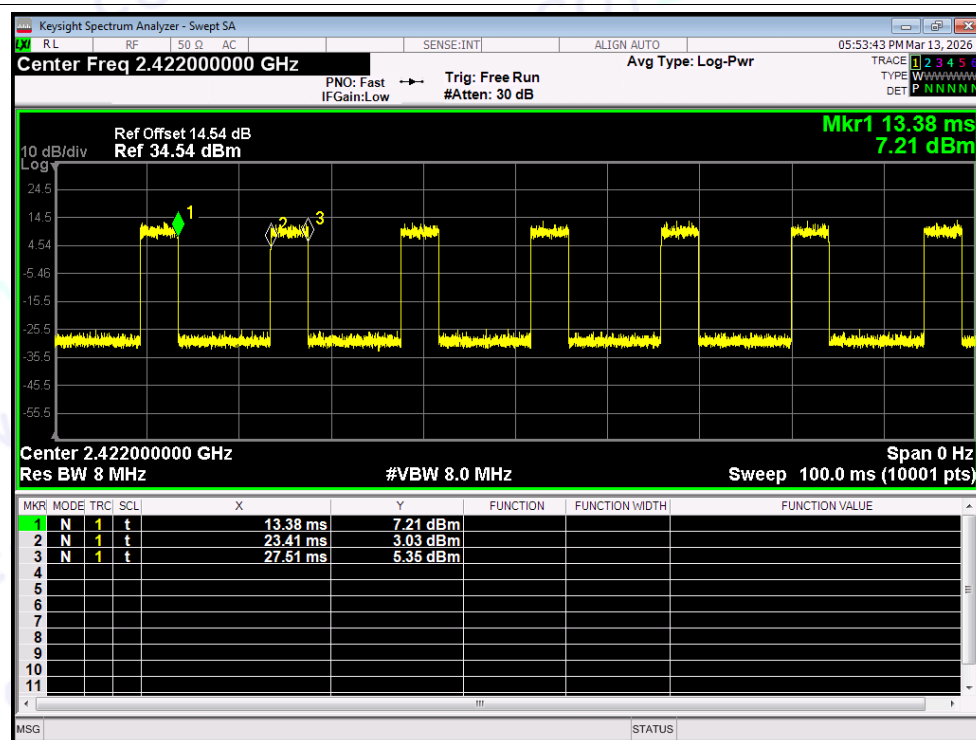
Duty Cycle NVNT ax(HE20) 2437MHz Ant1



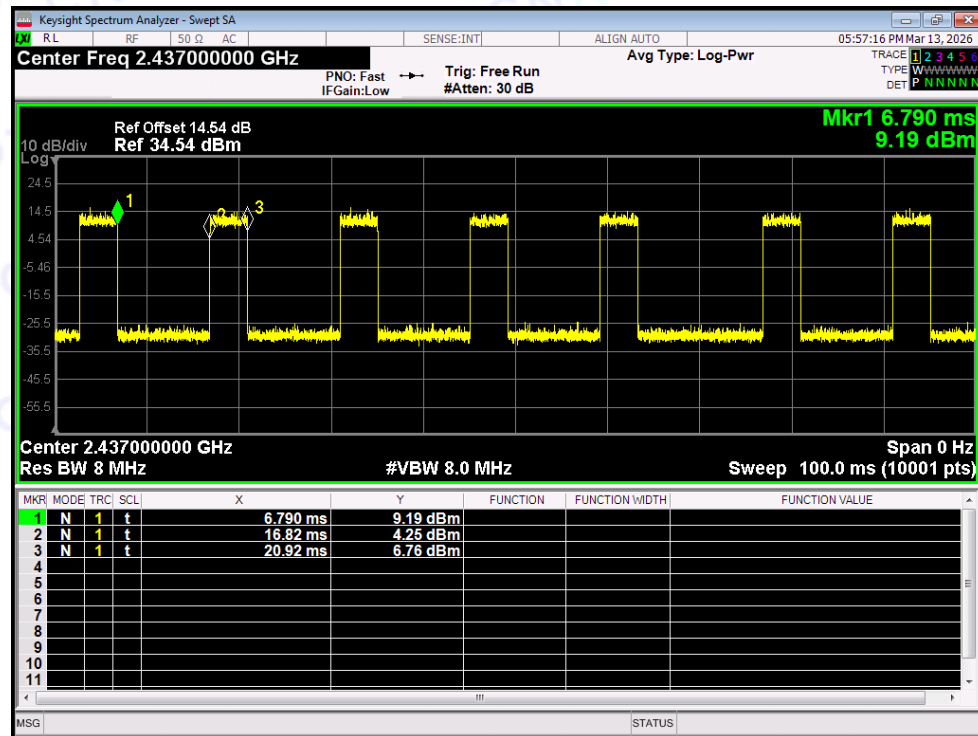
Duty Cycle NVNT ax(HE20) 2462MHz Ant1



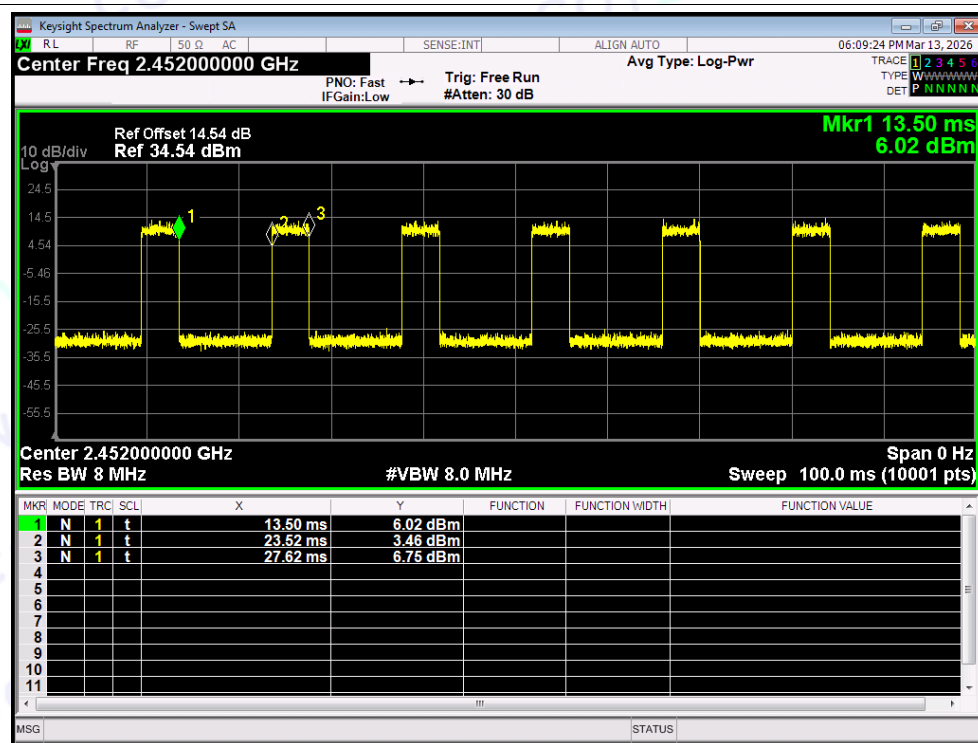
Duty Cycle NVNT ax(HE40) 2422MHz Ant1



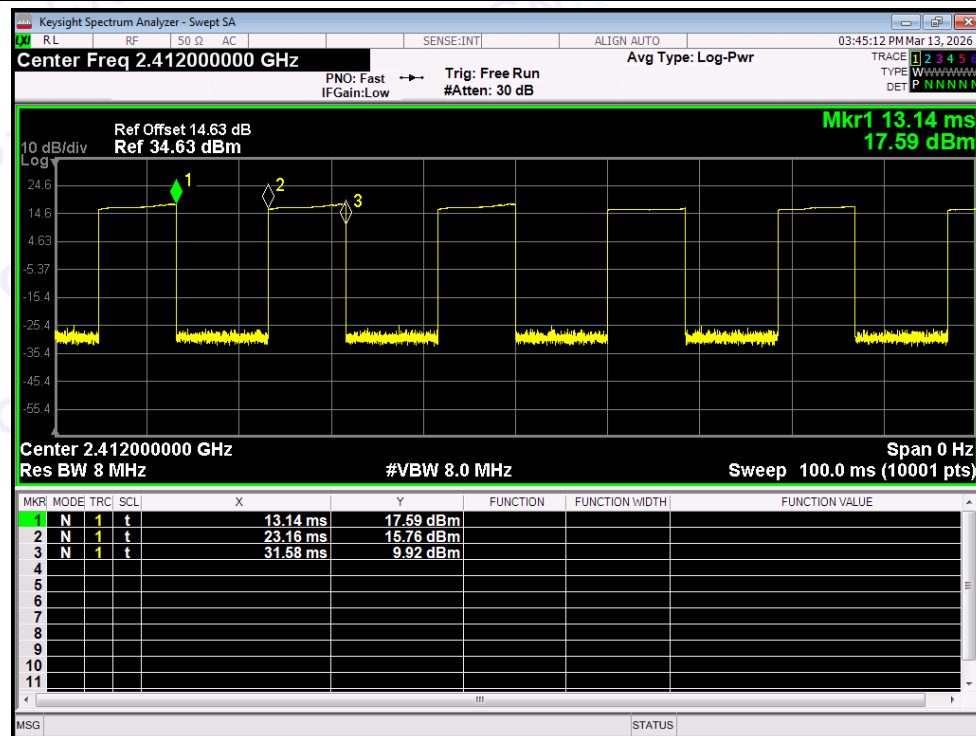
Duty Cycle NVNT ax(HE40) 2437MHz Ant1



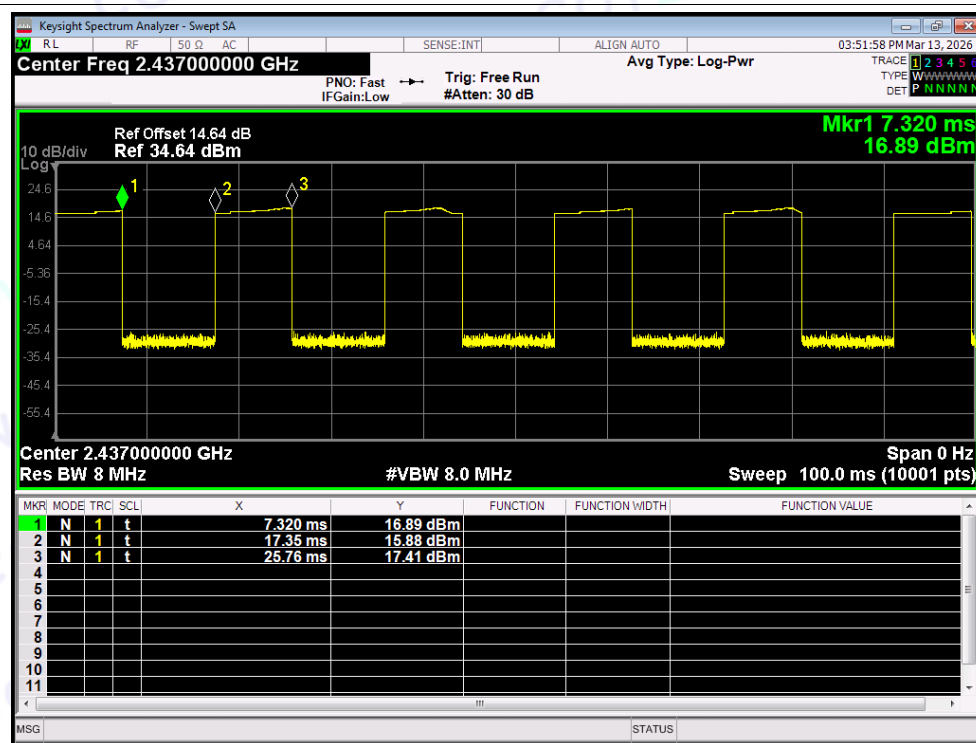
Duty Cycle NVNT ax(HE40) 2452MHz Ant1



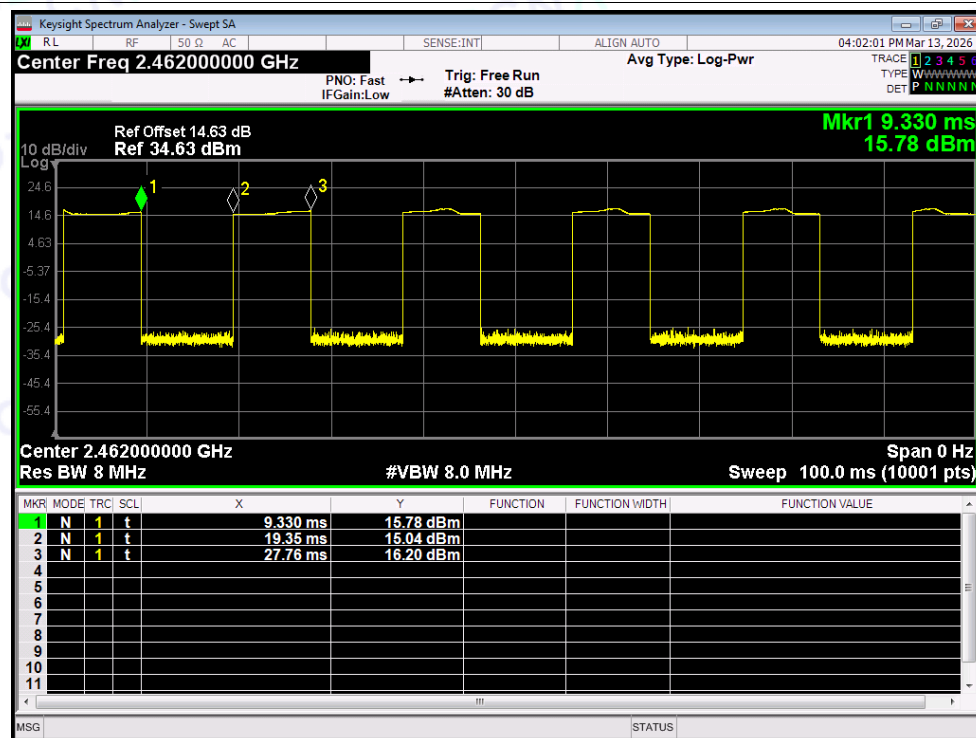
Duty Cycle NVNT b 2412MHz Ant1



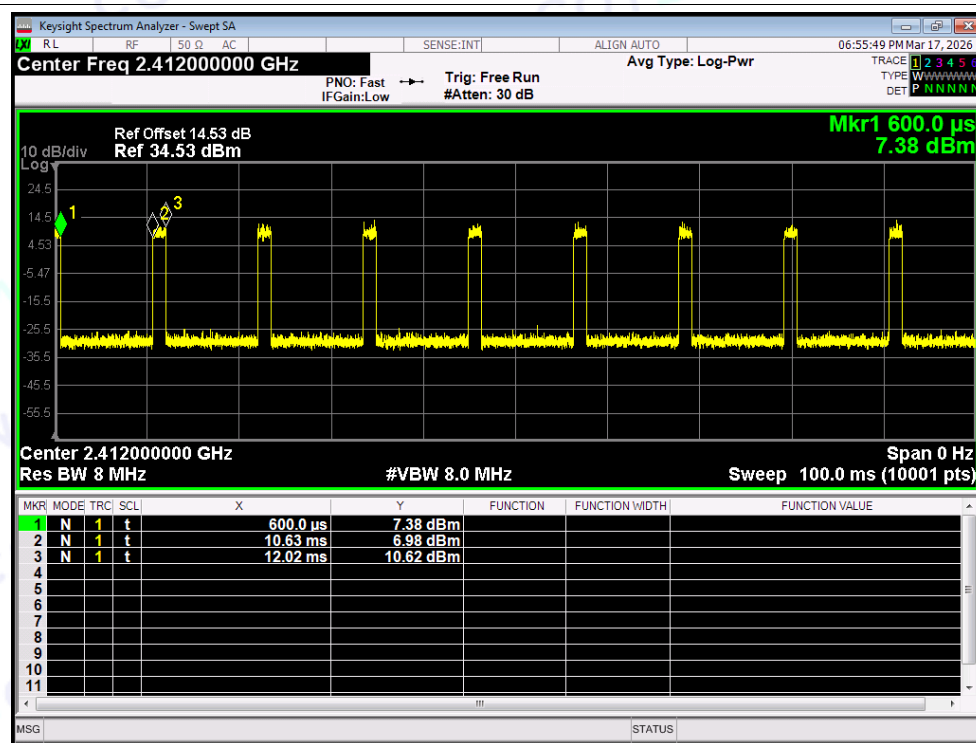
Duty Cycle NVNT b 2437MHz Ant1



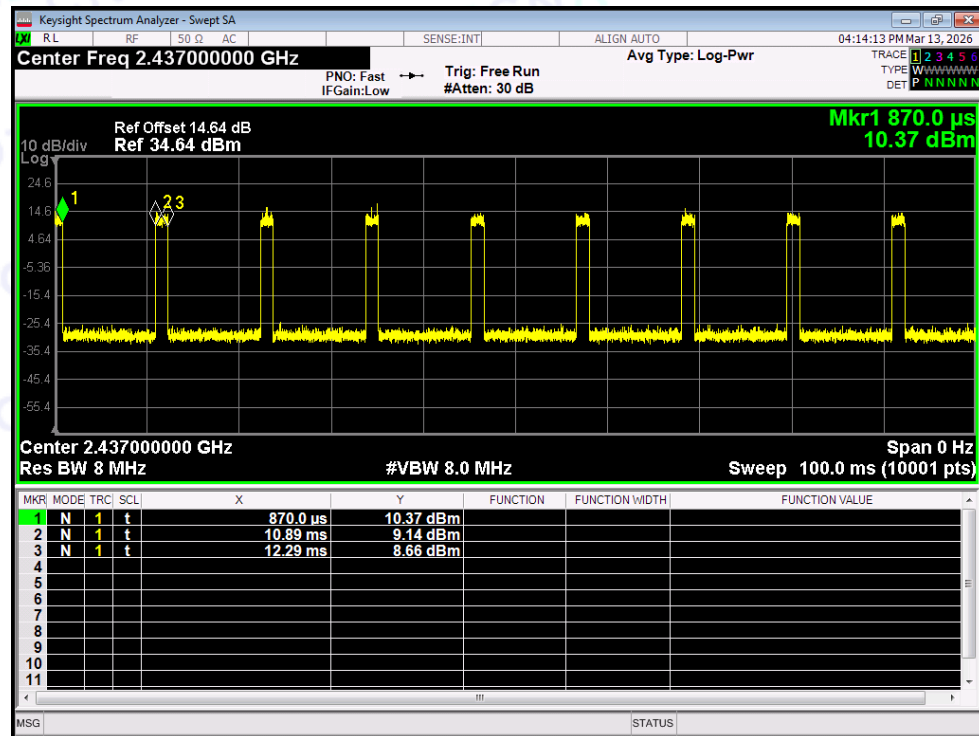
Duty Cycle NVNT b 2462MHz Ant1



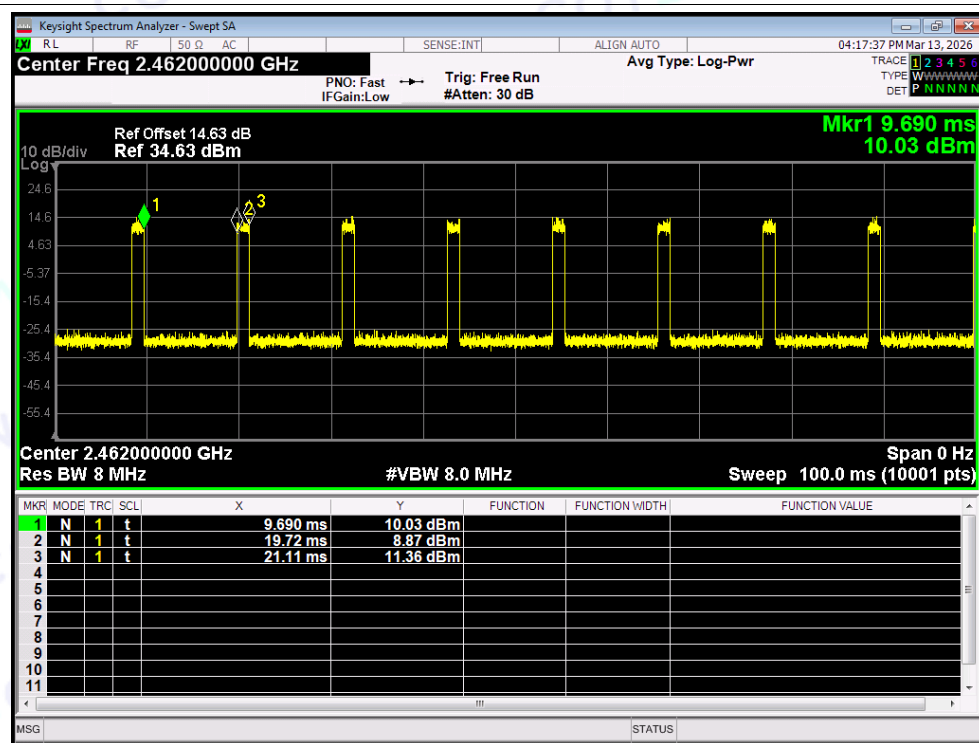
Duty Cycle NVNT g 2412MHz Ant1



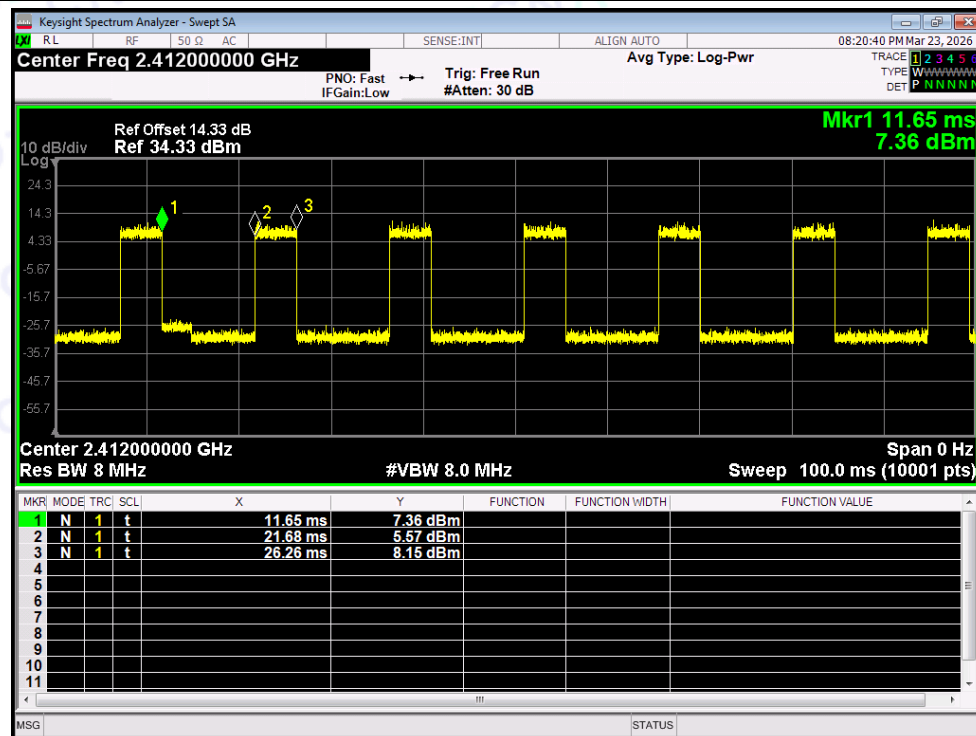
Duty Cycle NVNT g 2437MHz Ant1



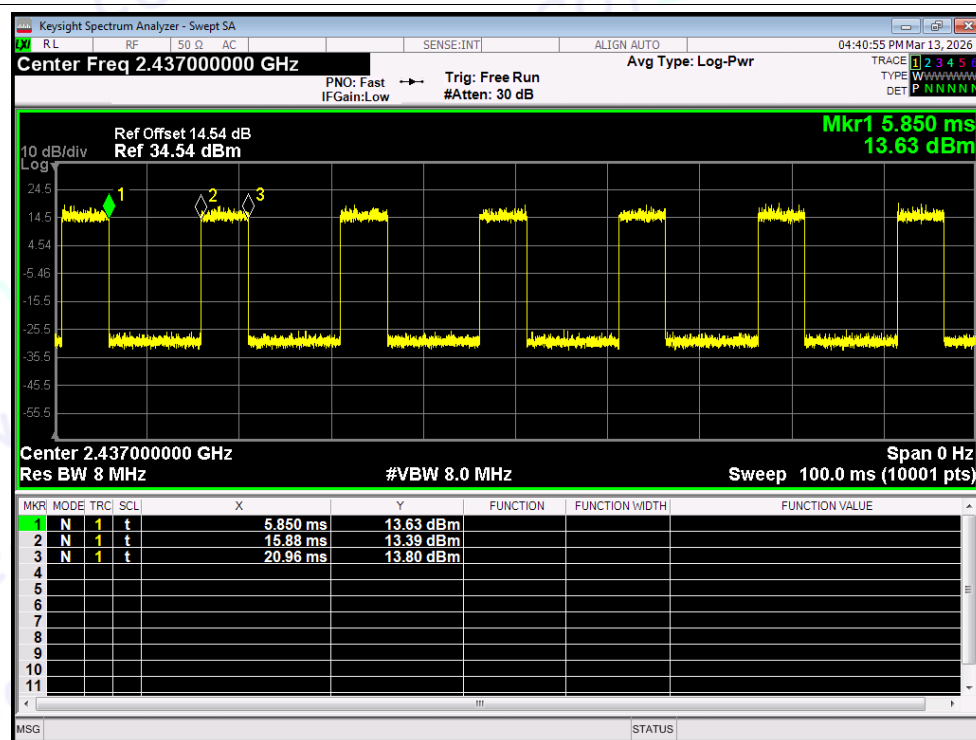
Duty Cycle NVNT g 2462MHz Ant1



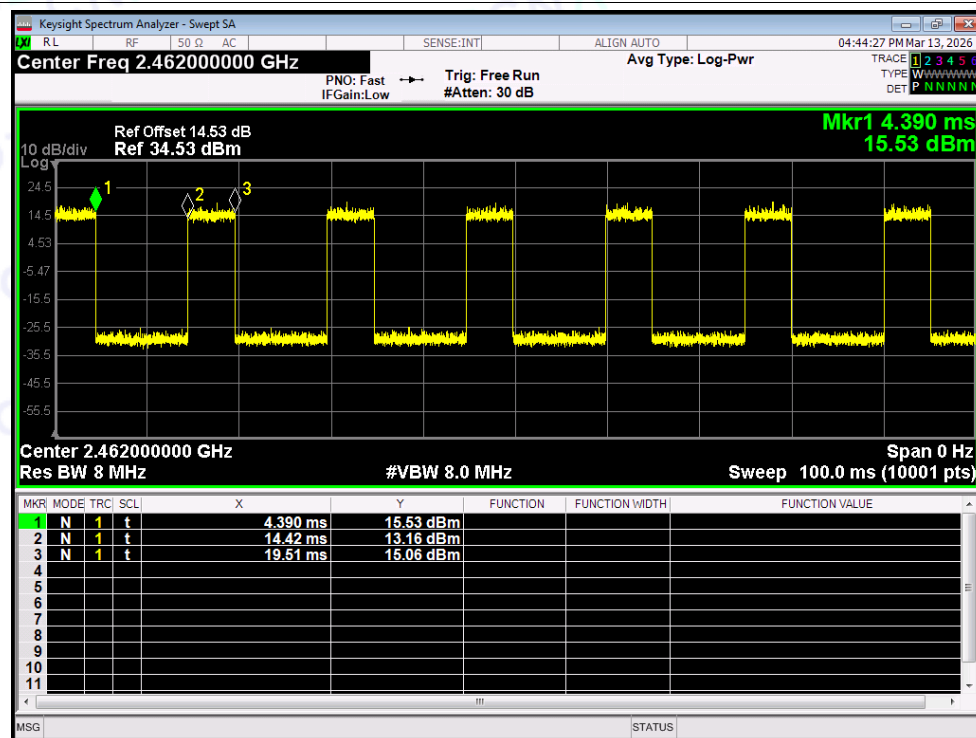
Duty Cycle NVNT n(HT20) 2412MHz Ant1



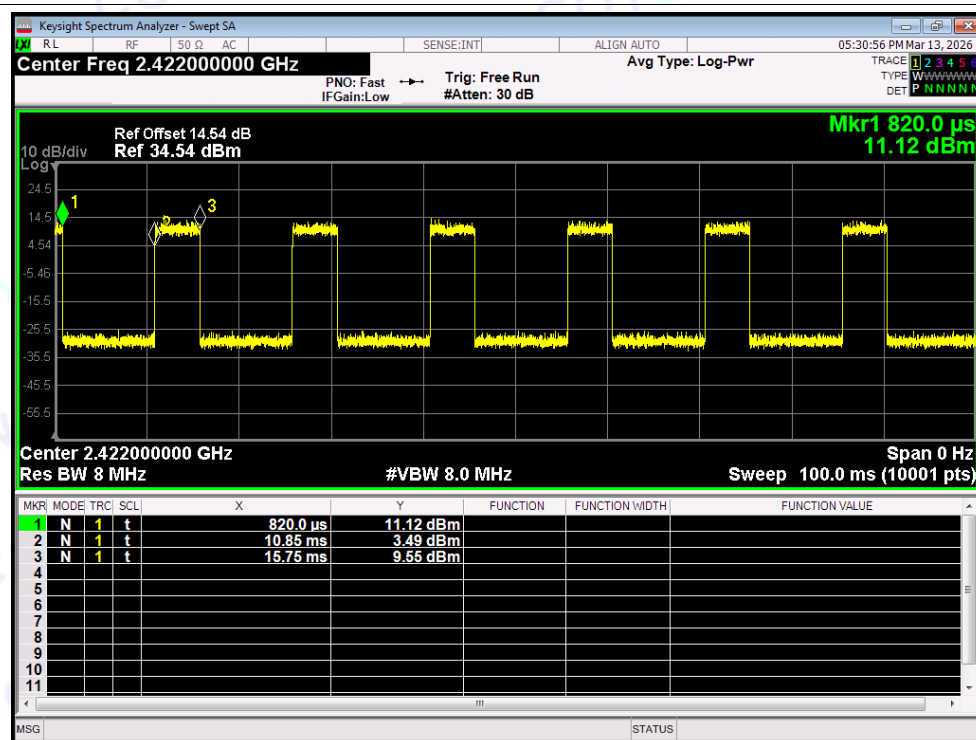
Duty Cycle NVNT n(HT20) 2437MHz Ant1



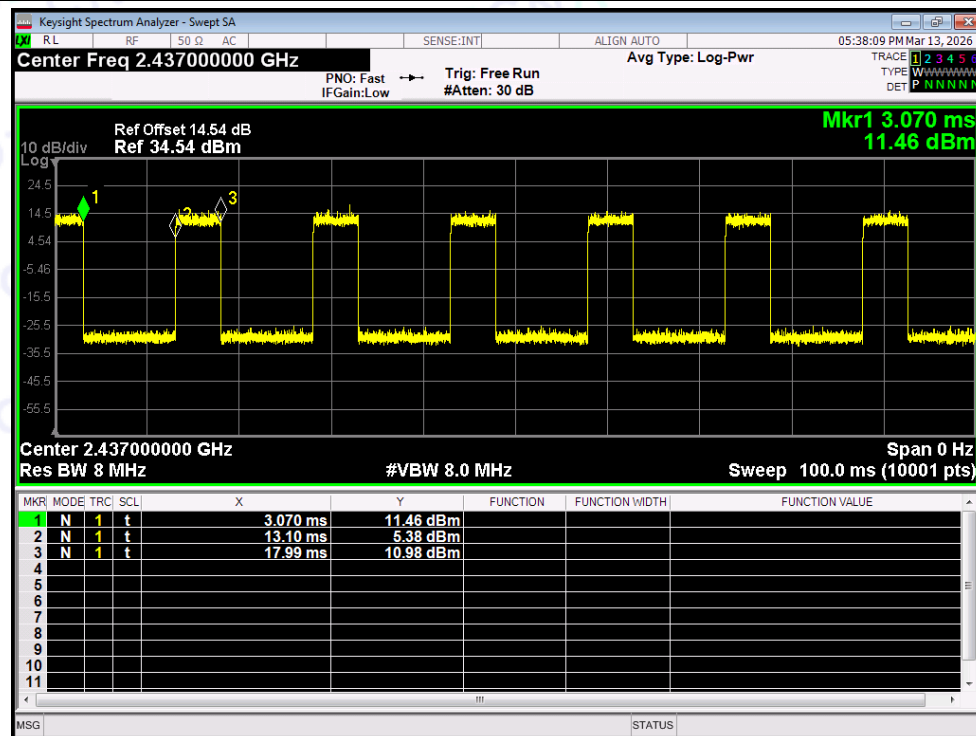
Duty Cycle NVNT n(HT20) 2462MHz Ant1



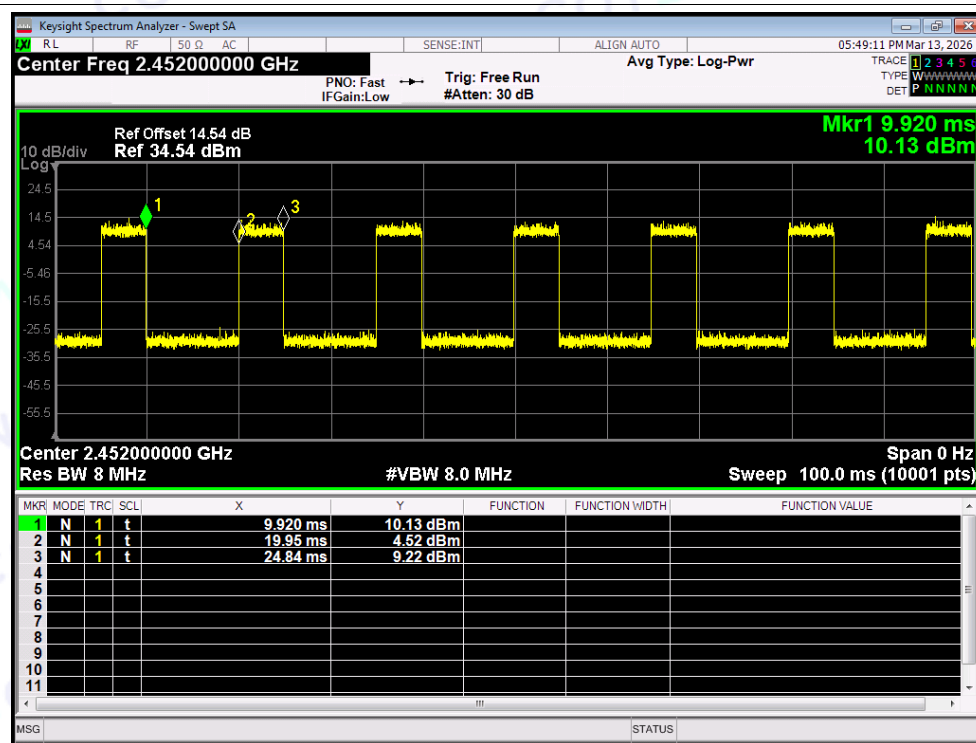
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2.Maximum Conducted Output Power

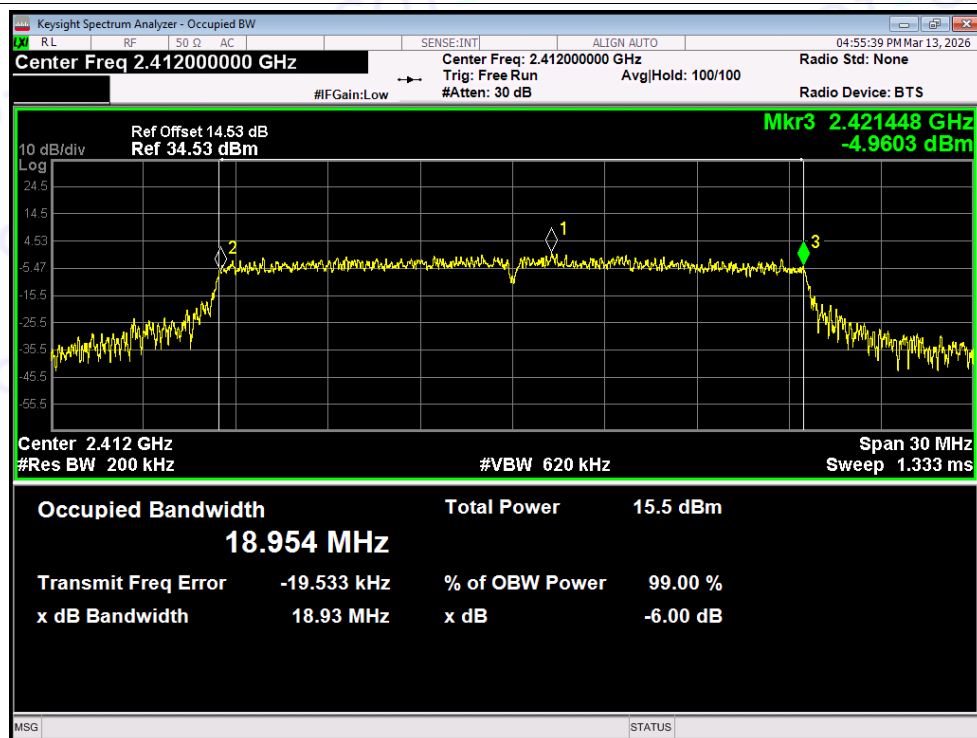
Condition	Mode	Frequency (MHz)	Antenna	RawPower [dBm]	DC Factor	Result [dBm]	Limit (dBm)	Verdict
NVNT	ax(HE20)	2412	Ant1	10.11	5.36	15.47	30	Pass
NVNT	ax(HE20)	2437	Ant1	9.74	5.37	15.11	30	Pass
NVNT	ax(HE20)	2462	Ant1	9.29	5.37	14.66	30	Pass
NVNT	ax(HE40)	2422	Ant1	7.84	5.37	13.21	30	Pass
NVNT	ax(HE40)	2437	Ant1	9.64	5.37	15.01	30	Pass
NVNT	ax(HE40)	2452	Ant1	8.36	5.37	13.73	30	Pass
NVNT	b	2412	Ant1	12.99	3.4	16.39	30	Pass
NVNT	b	2437	Ant1	12.99	3.41	16.4	30	Pass
NVNT	b	2462	Ant1	12.17	3.41	15.58	30	Pass
NVNT	g	2412	Ant1	4.99	9.15	14.14	30	Pass
NVNT	g	2437	Ant1	6.83	9.12	15.95	30	Pass
NVNT	g	2462	Ant1	6.42	9.15	15.57	30	Pass
NVNT	n(HT20)	2412	Ant1	3.52	5.04	8.56	30	Pass
NVNT	n(HT20)	2437	Ant1	10.74	4.73	15.47	30	Pass
NVNT	n(HT20)	2462	Ant1	9.41	4.73	14.14	30	Pass
NVNT	n(HT40)	2422	Ant1	8.94	4.84	13.78	30	Pass
NVNT	n(HT40)	2437	Ant1	10.70	4.85	15.55	30	Pass
NVNT	n(HT40)	2452	Ant1	8.43	4.85	13.28	30	Pass

3.-6dB Bandwidth

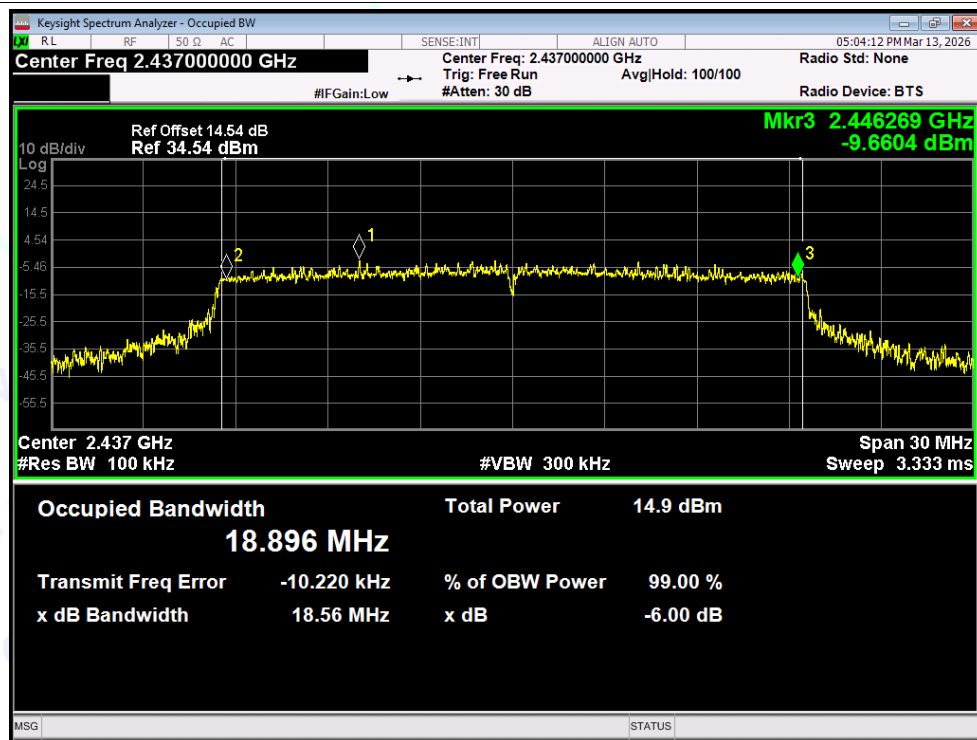
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(HE20)	2412	Ant1	18.93	0.5	Pass
NVNT	ax(HE20)	2437	Ant1	18.56	0.5	Pass
NVNT	ax(HE20)	2462	Ant1	18.9	0.5	Pass
NVNT	ax(HE40)	2422	Ant1	37.46	0.5	Pass
NVNT	ax(HE40)	2437	Ant1	37.39	0.5	Pass
NVNT	ax(HE40)	2452	Ant1	37.79	0.5	Pass
NVNT	b	2412	Ant1	9.11	0.5	Pass
NVNT	b	2437	Ant1	9.1	0.5	Pass
NVNT	b	2462	Ant1	9.07	0.5	Pass
NVNT	g	2412	Ant1	15.73	0.5	Pass
NVNT	g	2437	Ant1	16.31	0.5	Pass
NVNT	g	2462	Ant1	16.22	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.52	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.6	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.24	0.5	Pass
NVNT	n(HT40)	2422	Ant1	36.15	0.5	Pass
NVNT	n(HT40)	2437	Ant1	36.31	0.5	Pass
NVNT	n(HT40)	2452	Ant1	36.19	0.5	Pass

Test Graphs

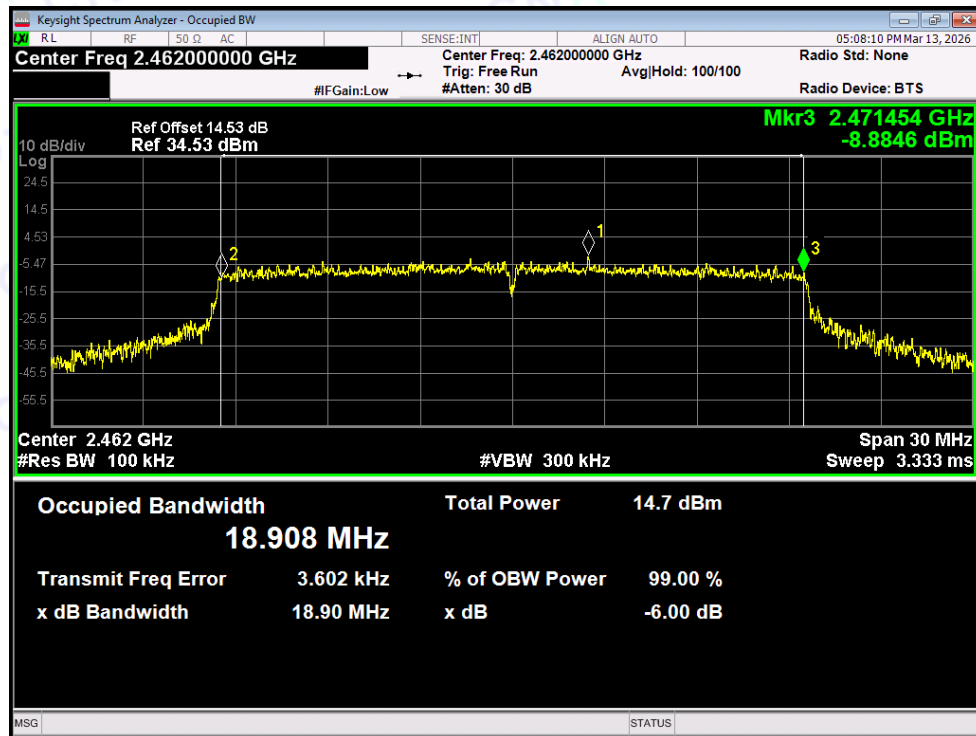
-6dB Bandwidth NVNT ax(HE20) 2412MHz Ant1



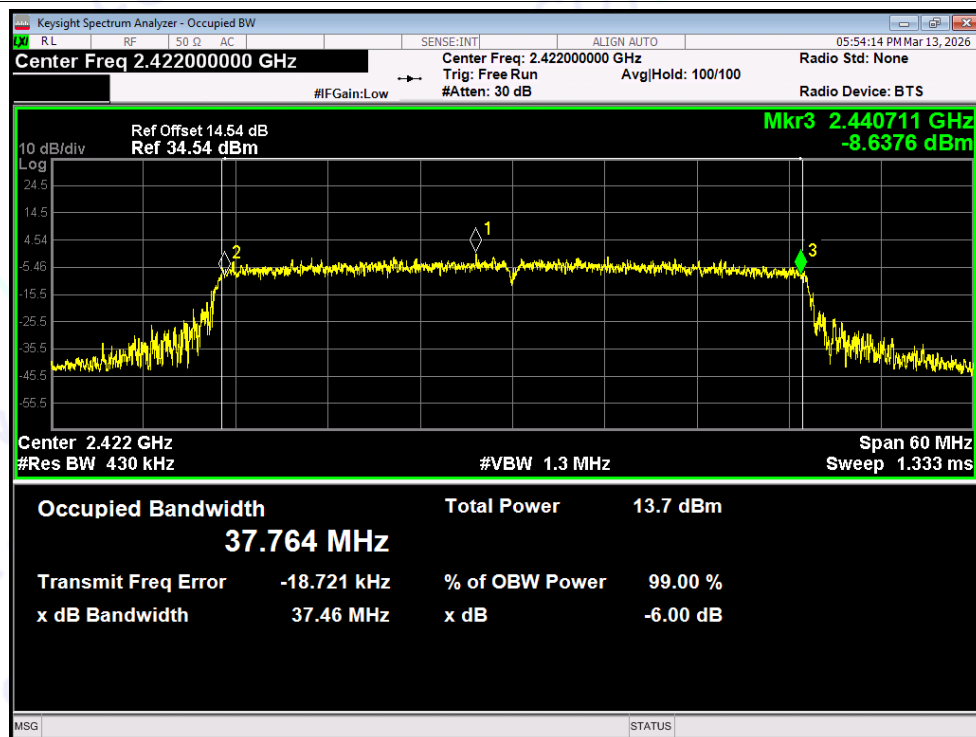
-6dB Bandwidth NVNT ax(HE20) 2437MHz Ant1



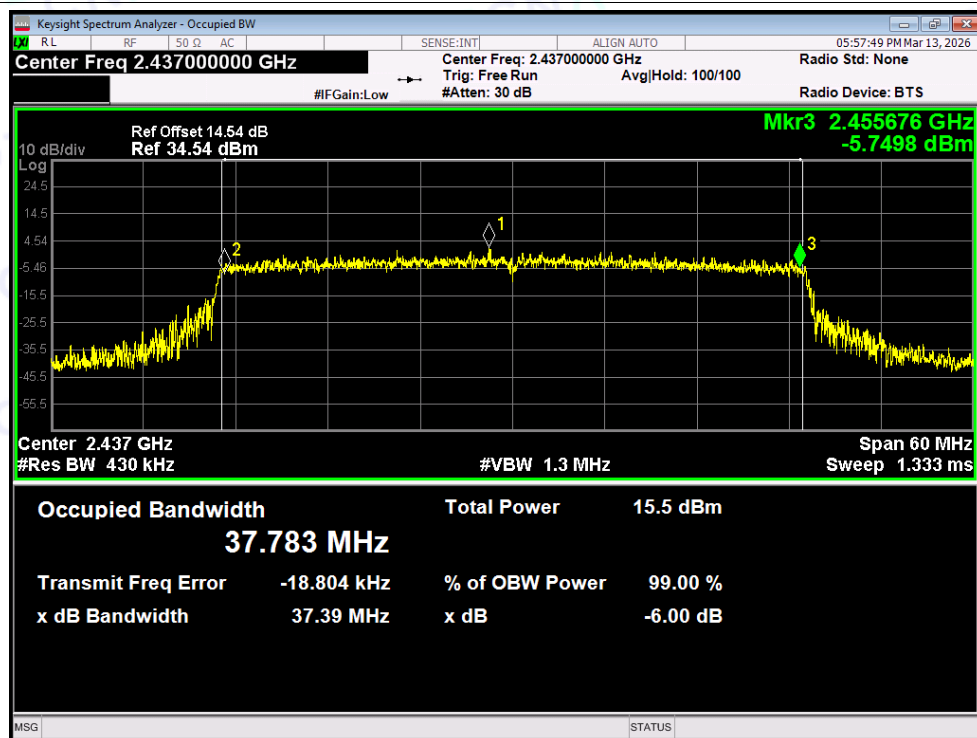
-6dB Bandwidth NVNT ax(HE20) 2462MHz Ant1



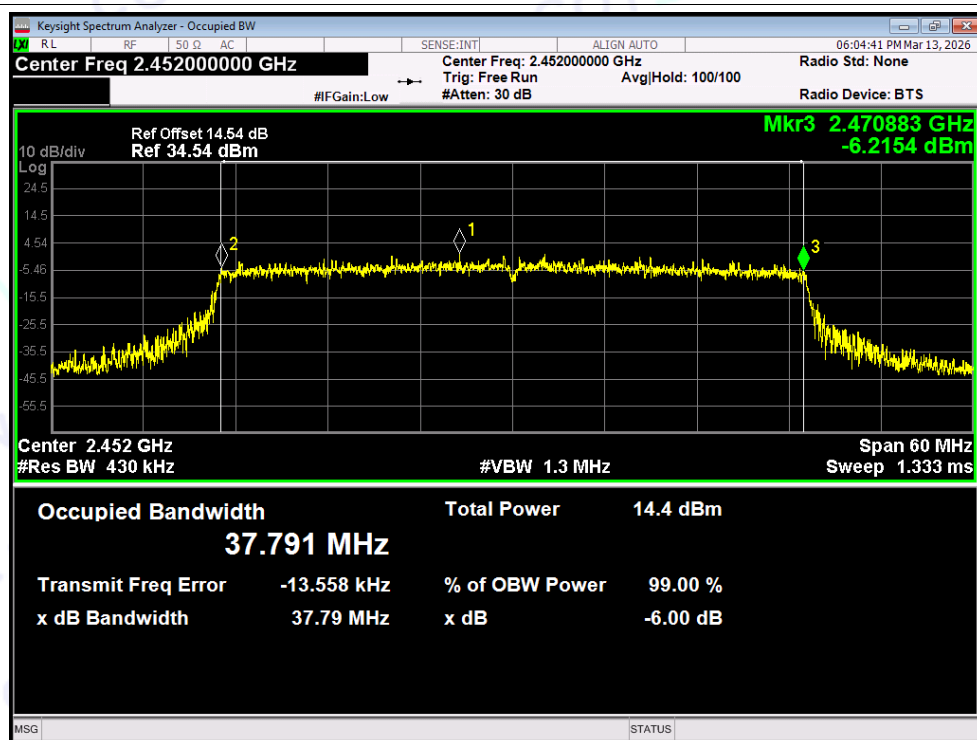
-6dB Bandwidth NVNT ax(HE40) 2422MHz Ant1



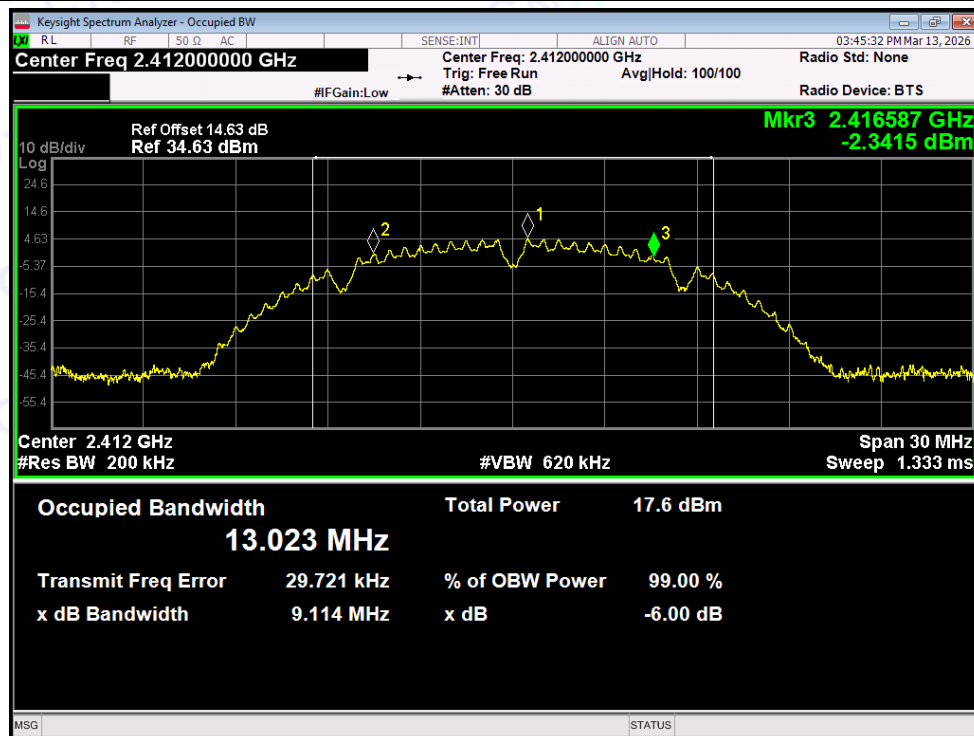
-6dB Bandwidth NVNT ax(HE40) 2437MHz Ant1



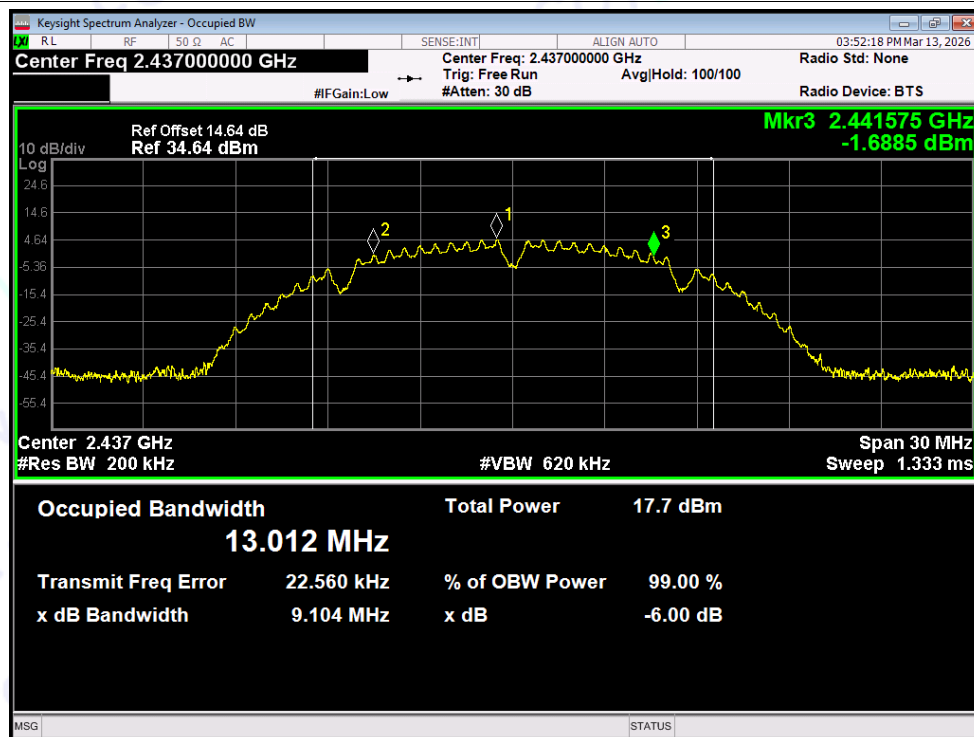
-6dB Bandwidth NVNT ax(HE40) 2452MHz Ant1



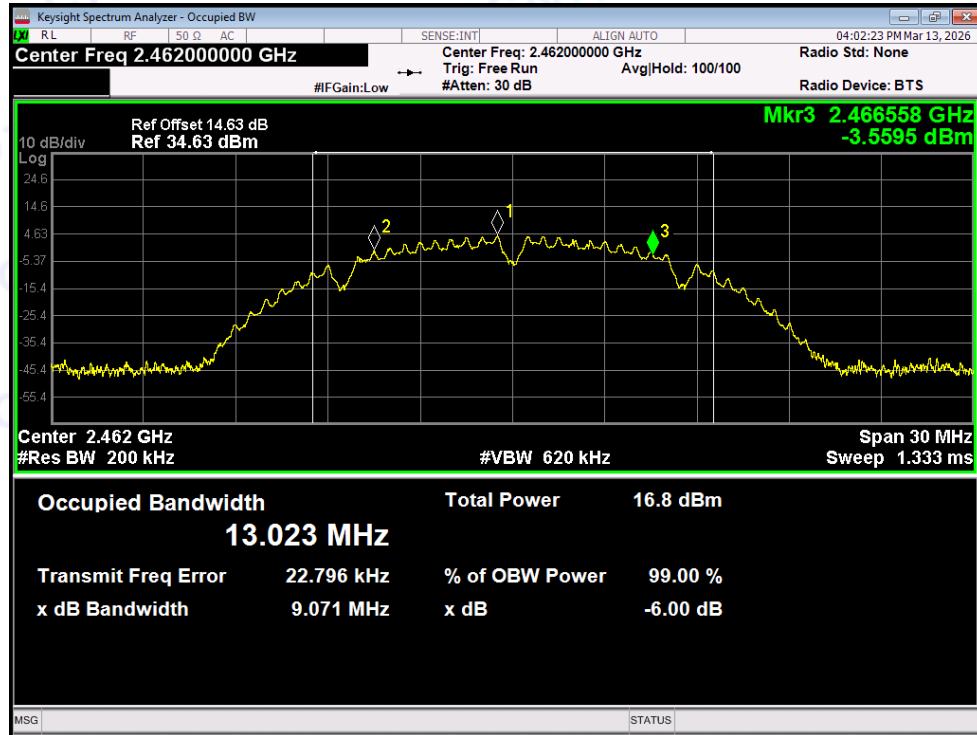
-6dB Bandwidth NVNT b 2412MHz Ant1



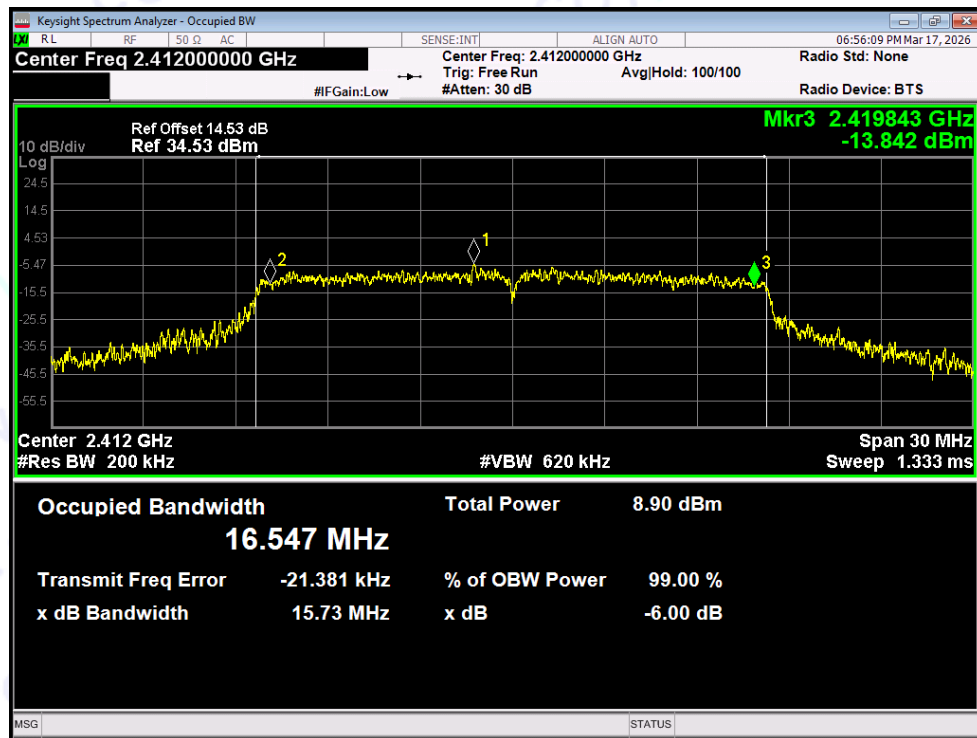
-6dB Bandwidth NVNT b 2437MHz Ant1



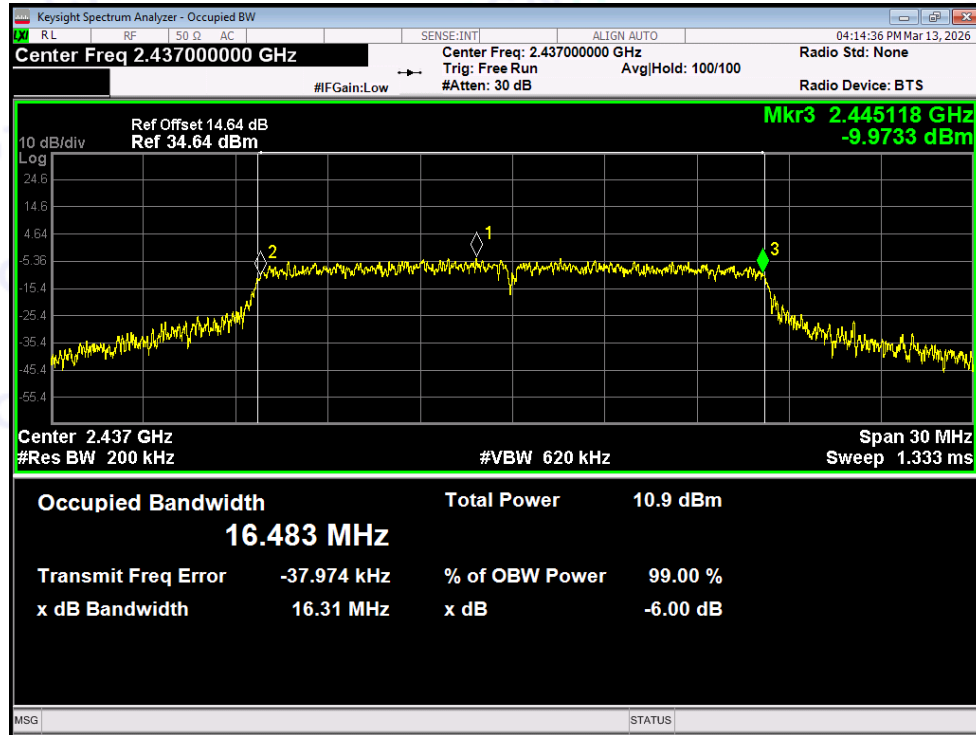
-6dB Bandwidth NVNT b 2462MHz Ant1



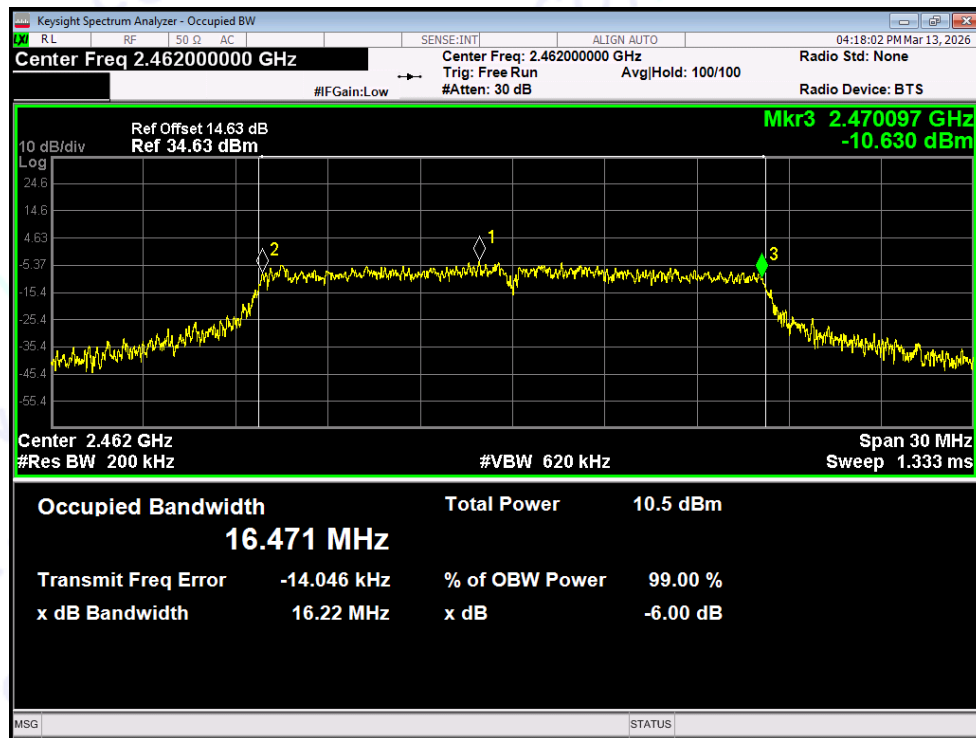
-6dB Bandwidth NVNT g 2412MHz Ant1



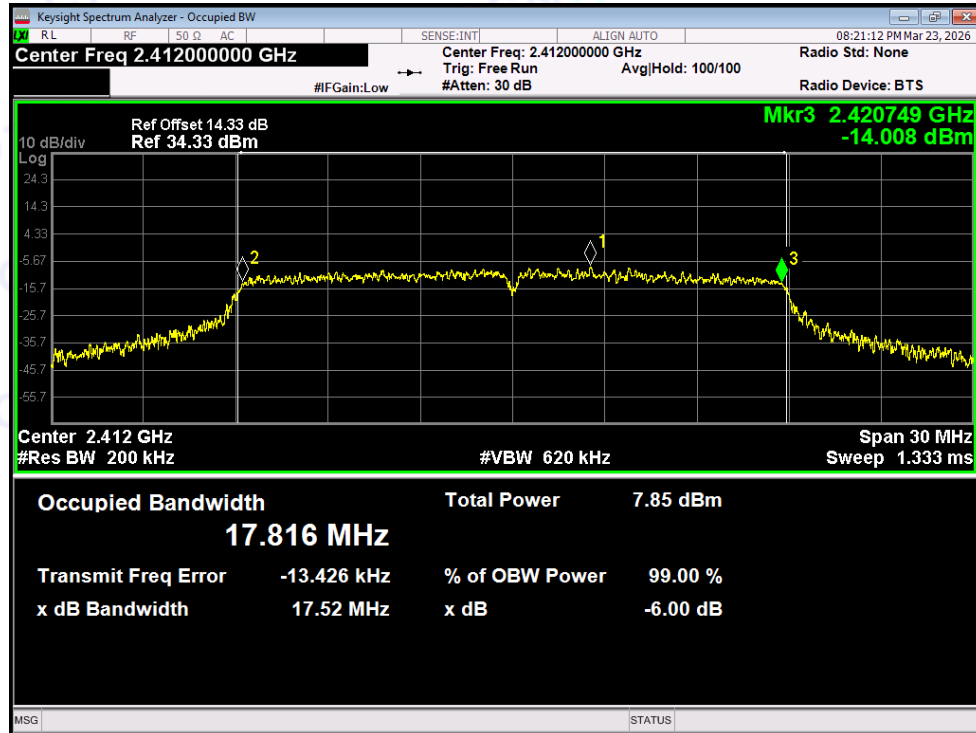
-6dB Bandwidth NVNT g 2437MHz Ant1



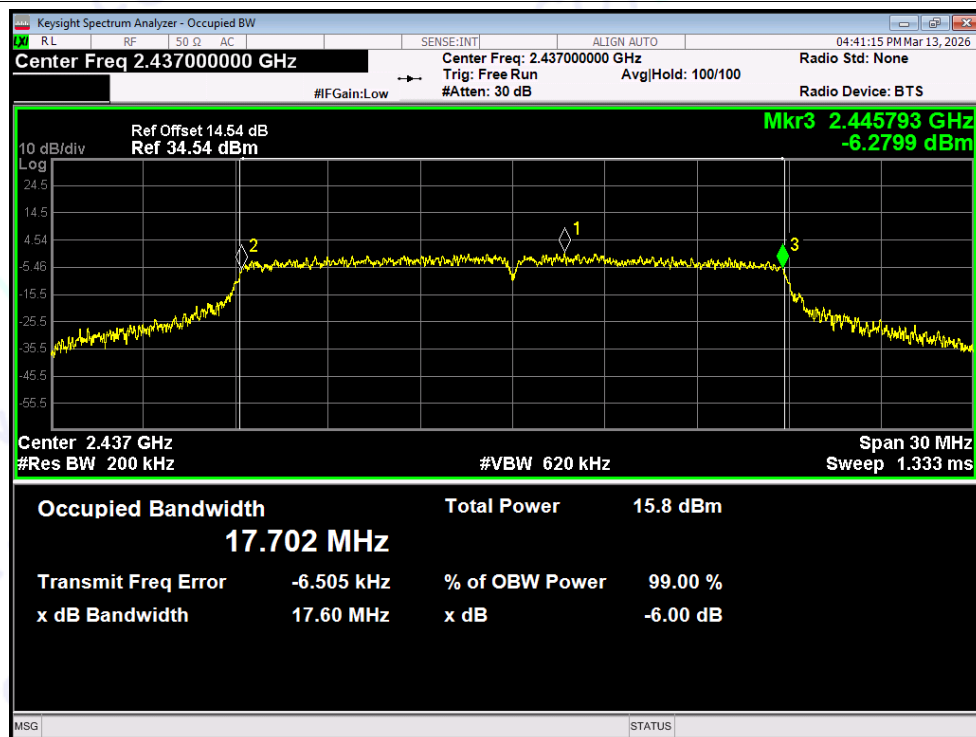
-6dB Bandwidth NVNT g 2462MHz Ant1



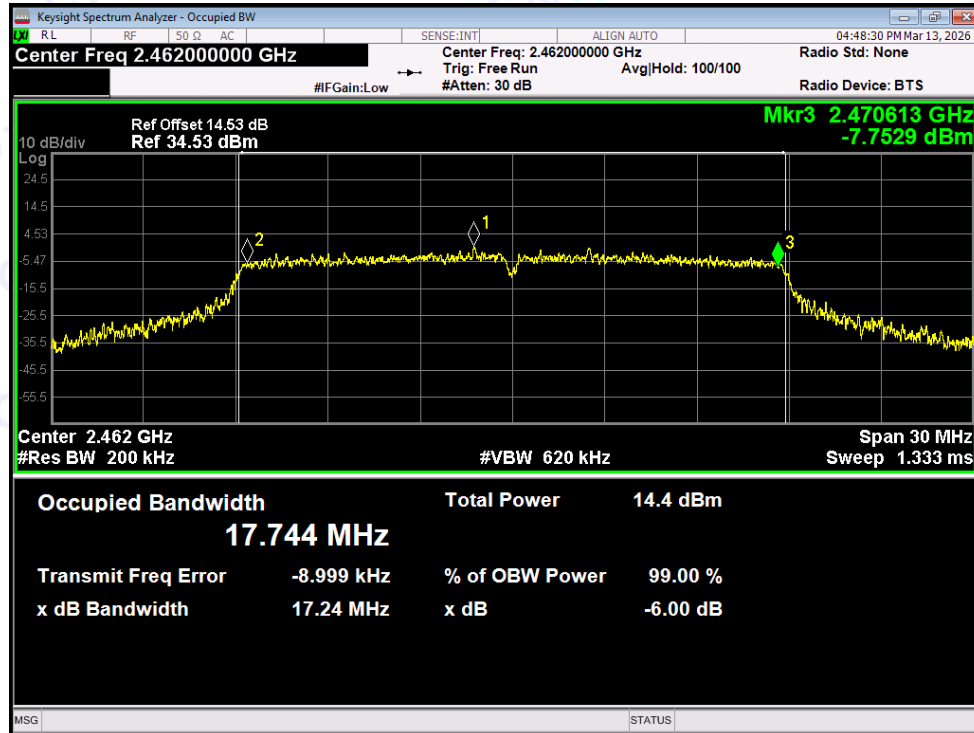
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



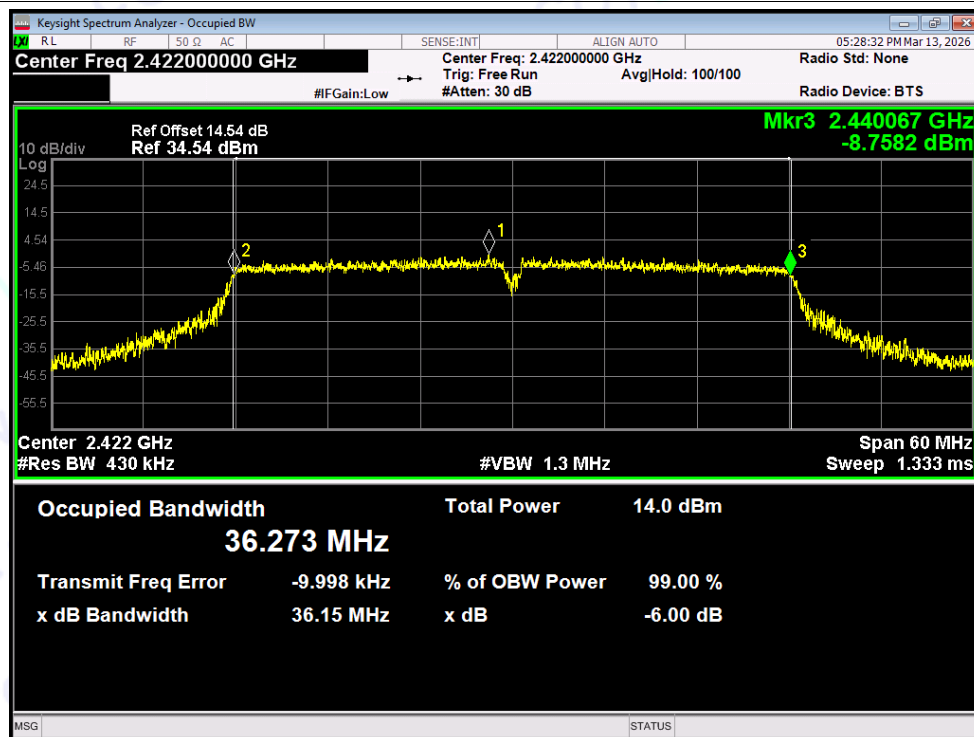
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



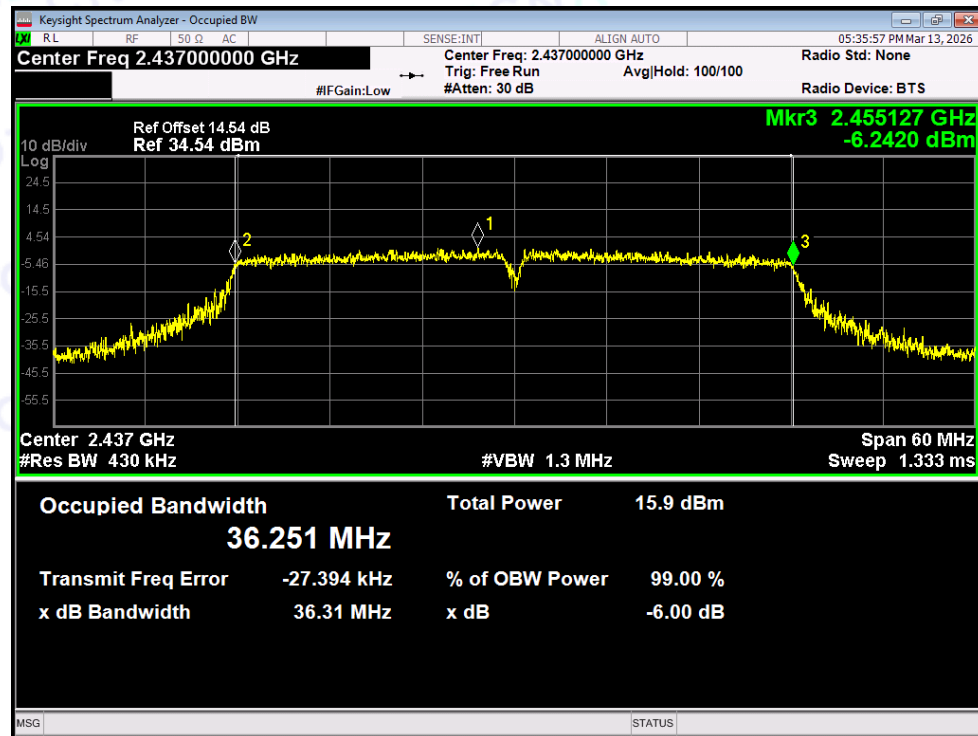
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



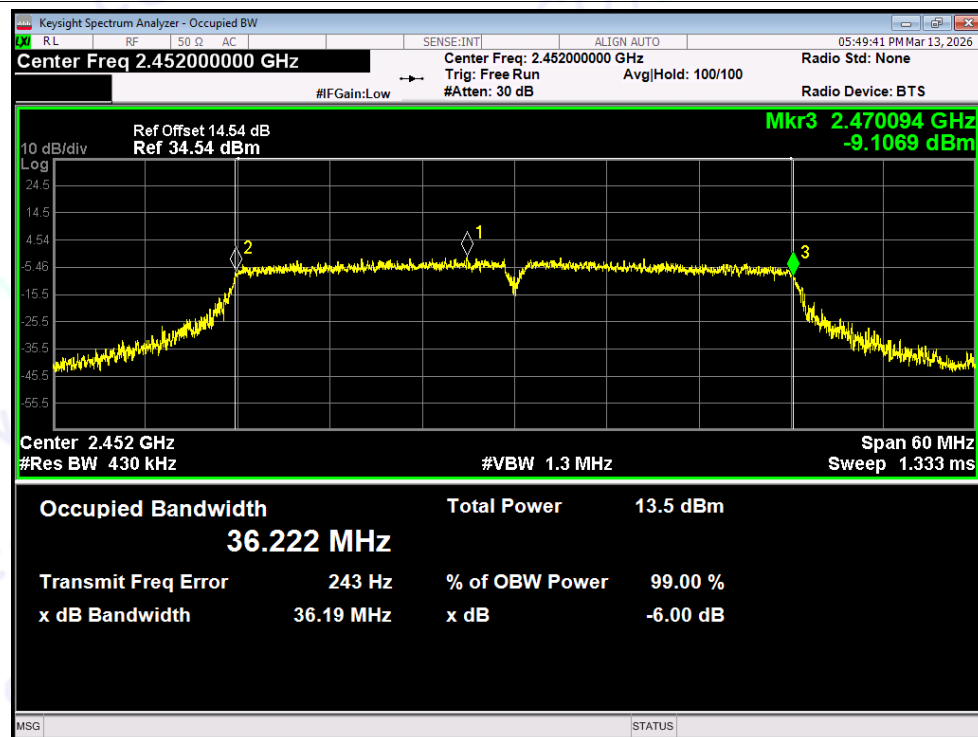
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

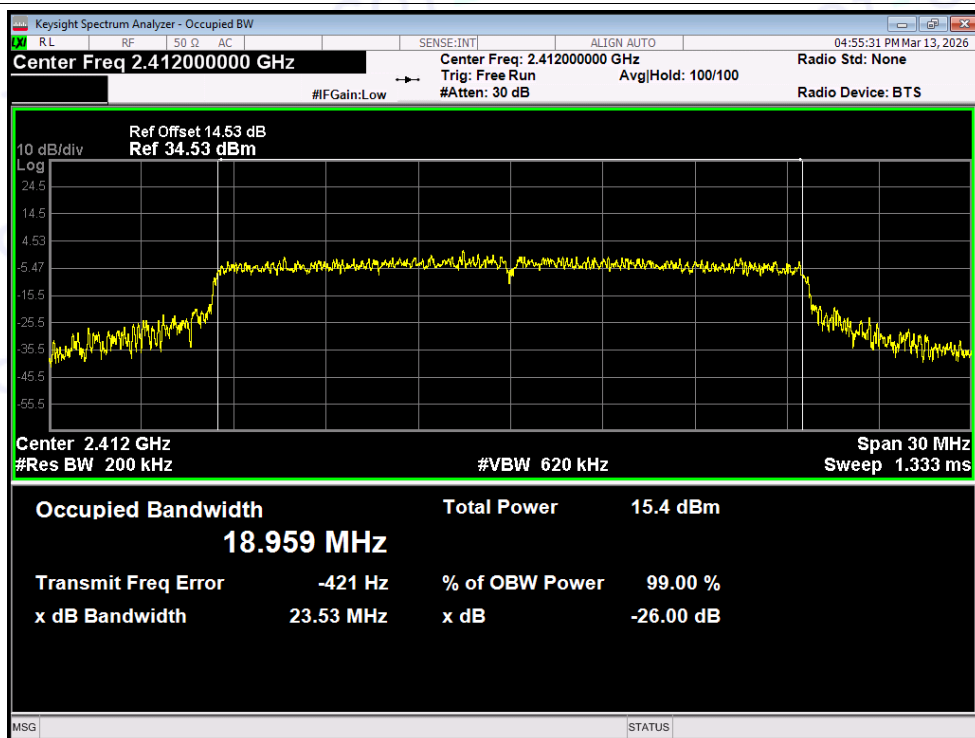


4.Occupied Channel Bandwidth

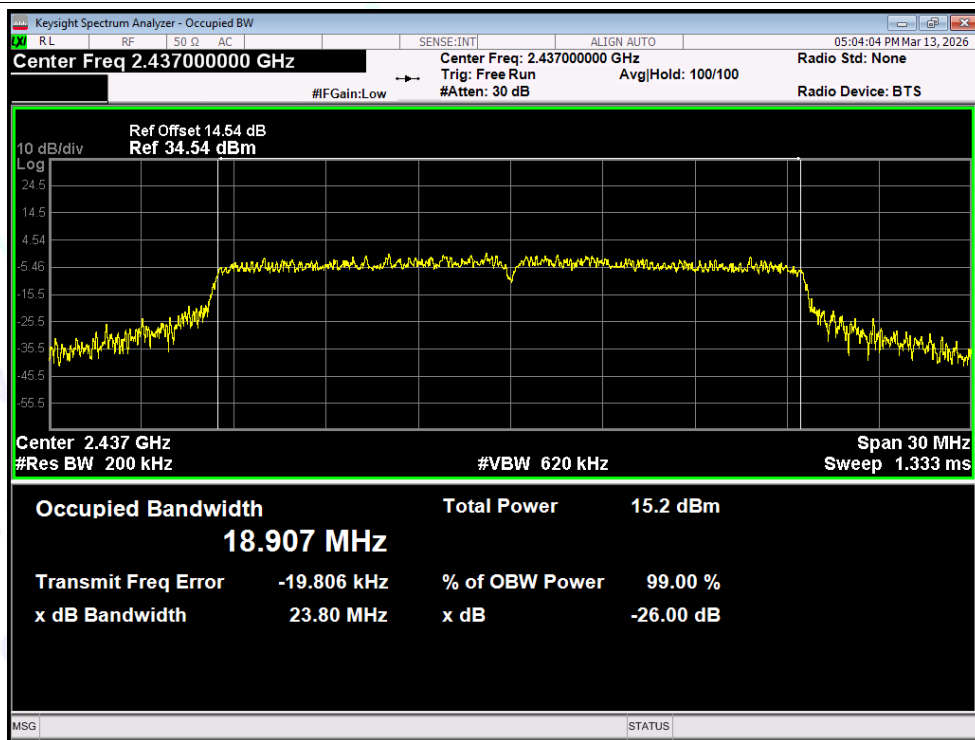
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(HE20)	2412	Ant1	18.959
NVNT	ax(HE20)	2437	Ant1	18.907
NVNT	ax(HE20)	2462	Ant1	18.902
NVNT	ax(HE40)	2422	Ant1	37.733
NVNT	ax(HE40)	2437	Ant1	37.674
NVNT	ax(HE40)	2452	Ant1	37.745
NVNT	b	2412	Ant1	13.05
NVNT	b	2437	Ant1	13.011
NVNT	b	2462	Ant1	13.016
NVNT	g	2412	Ant1	16.531
NVNT	g	2437	Ant1	16.507
NVNT	g	2462	Ant1	16.562
NVNT	n(HT20)	2412	Ant1	17.84
NVNT	n(HT20)	2437	Ant1	17.823
NVNT	n(HT20)	2462	Ant1	17.737
NVNT	n(HT40)	2422	Ant1	36.231
NVNT	n(HT40)	2437	Ant1	36.204
NVNT	n(HT40)	2452	Ant1	36.205

Test Graphs

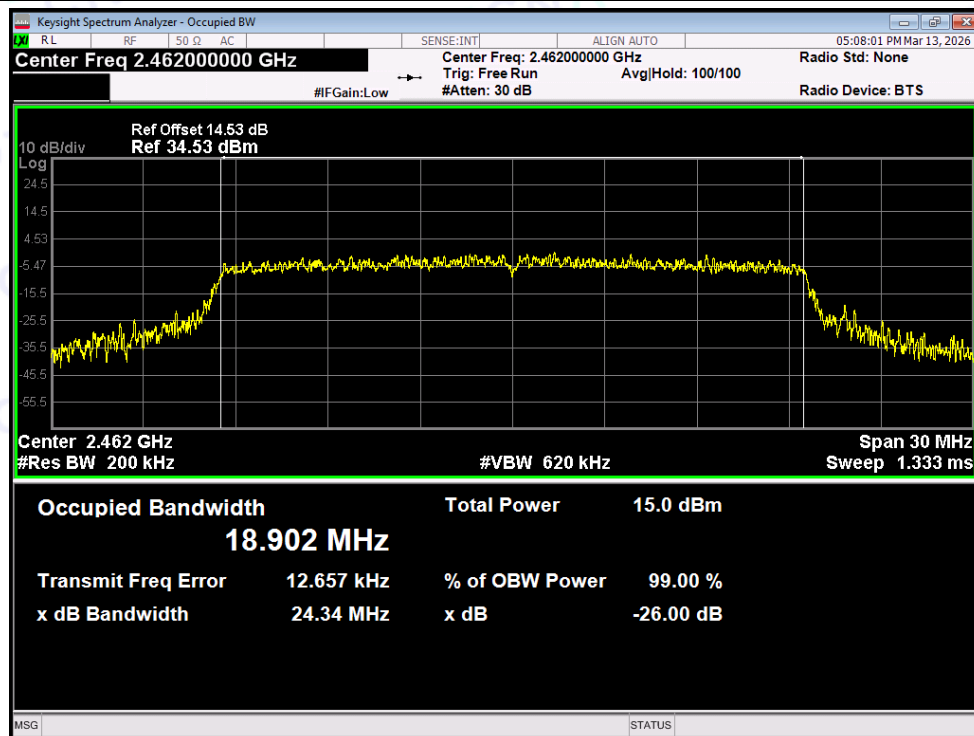
OBW NVNT ax(HE20) 2412MHz Ant1



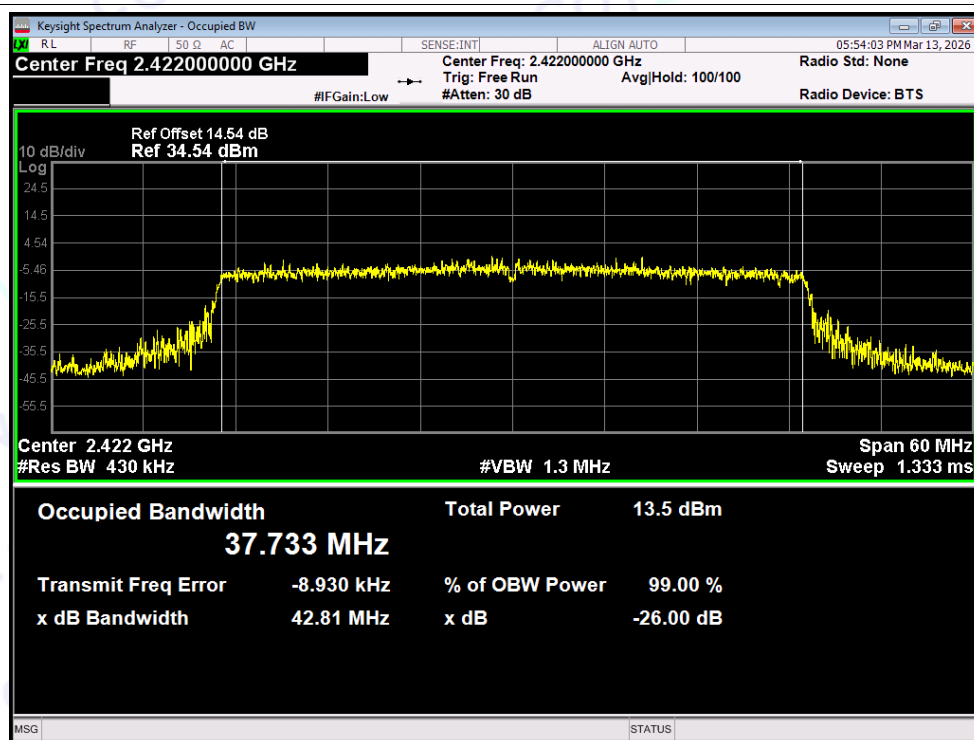
OBW NVNT ax(HE20) 2437MHz Ant1



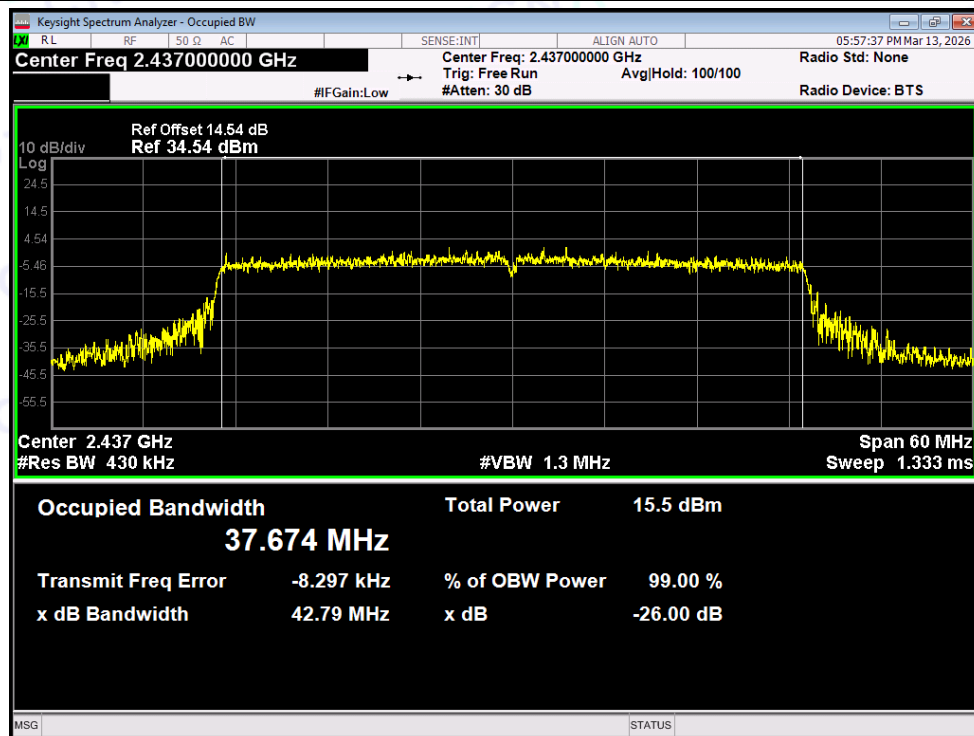
OBW NVNT ax(HE20) 2462MHz Ant1



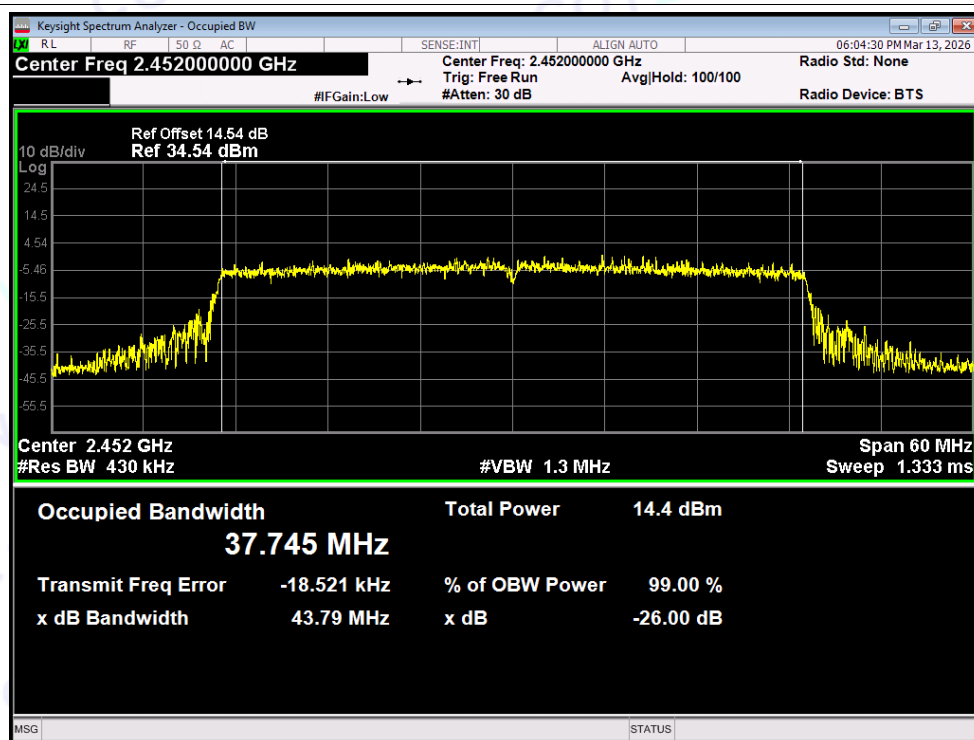
OBW NVNT ax(HE40) 2422MHz Ant1



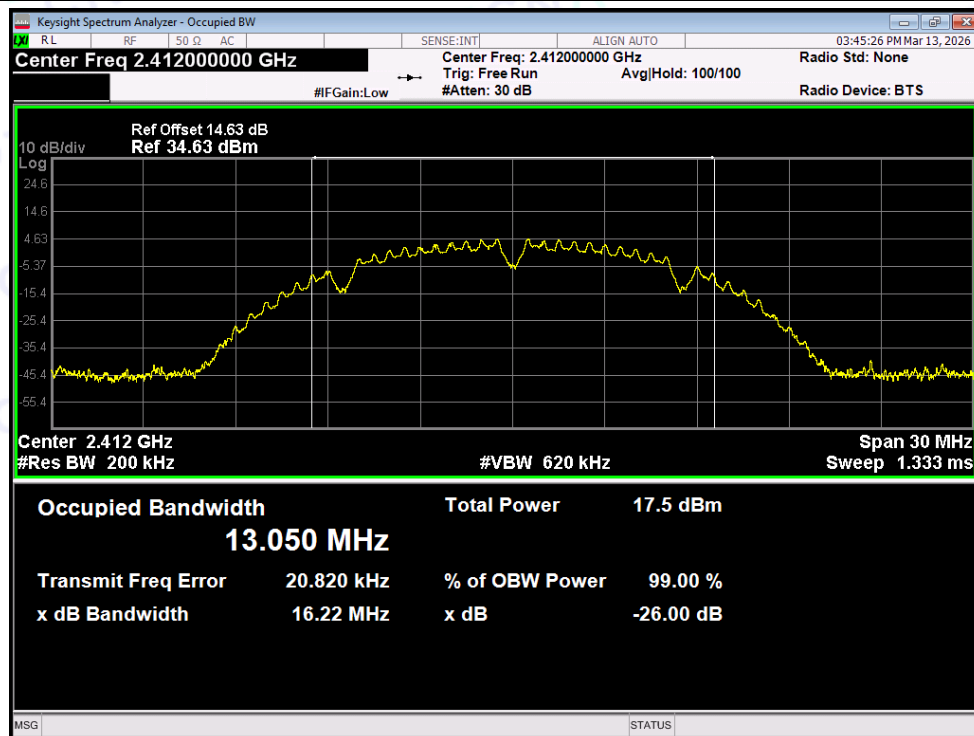
OBW NVNT ax(HE40) 2437MHz Ant1



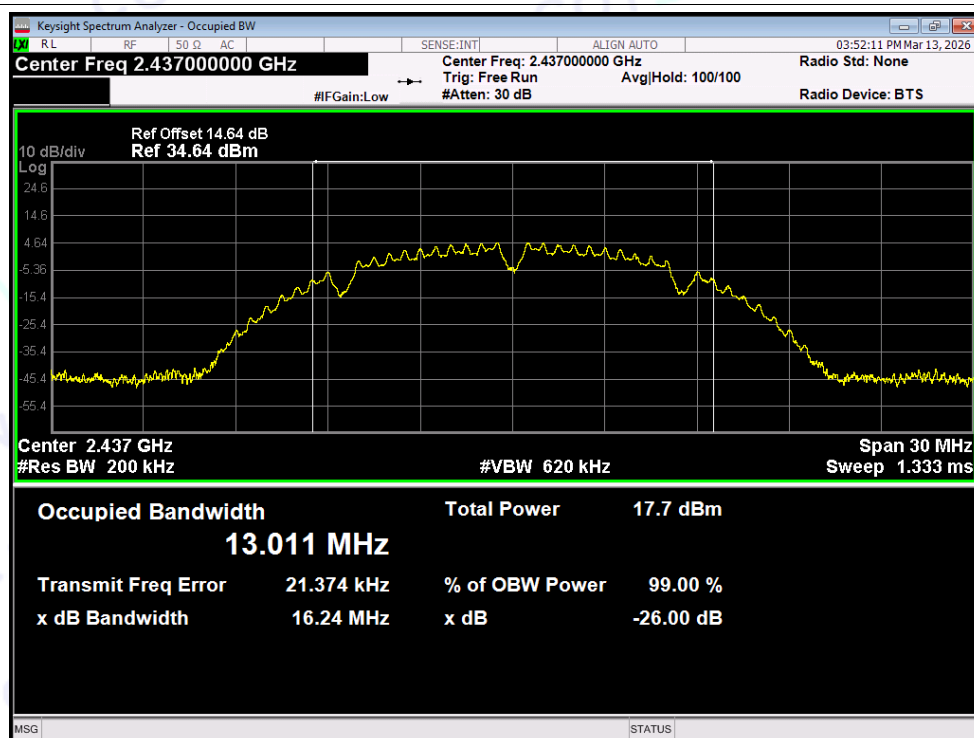
OBW NVNT ax(HE40) 2452MHz Ant1



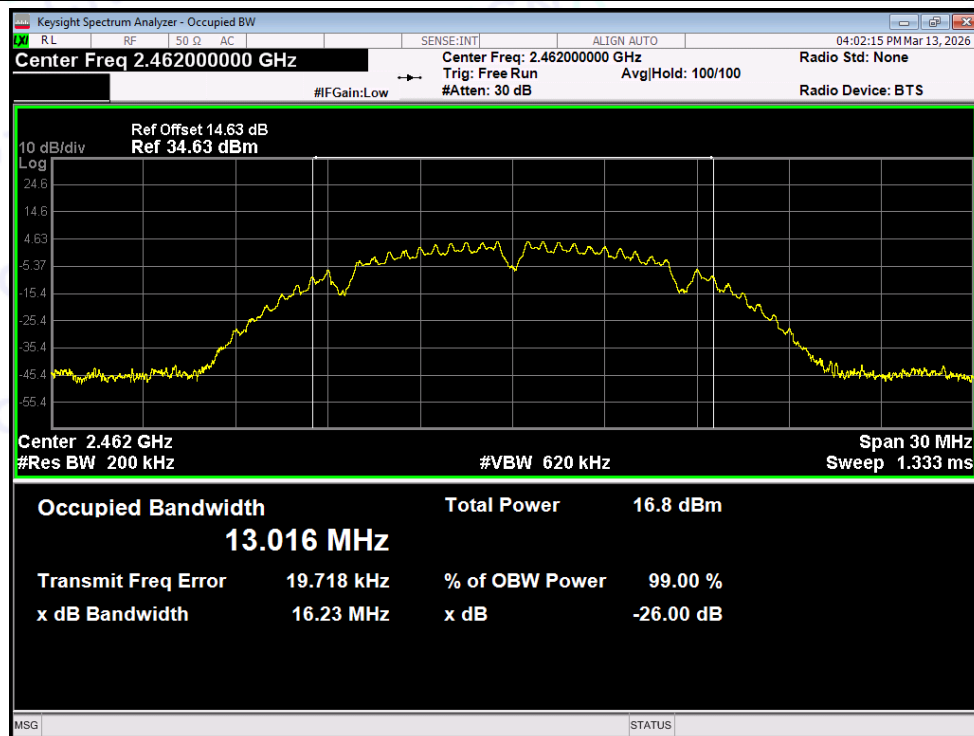
OBW NVNT b 2412MHz Ant1



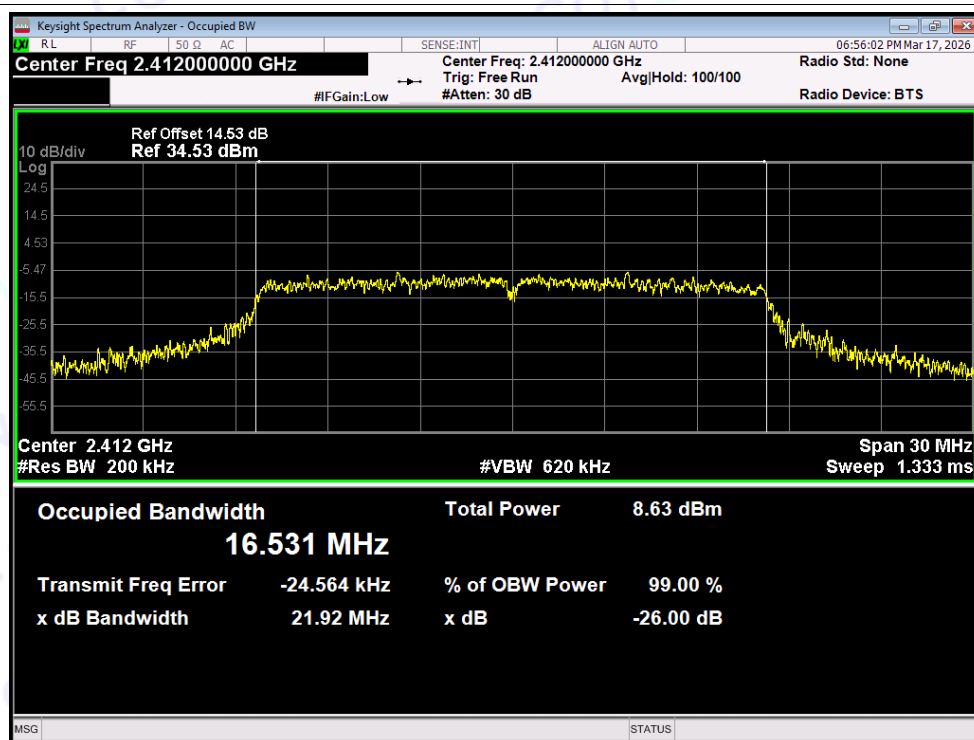
OBW NVNT b 2437MHz Ant1



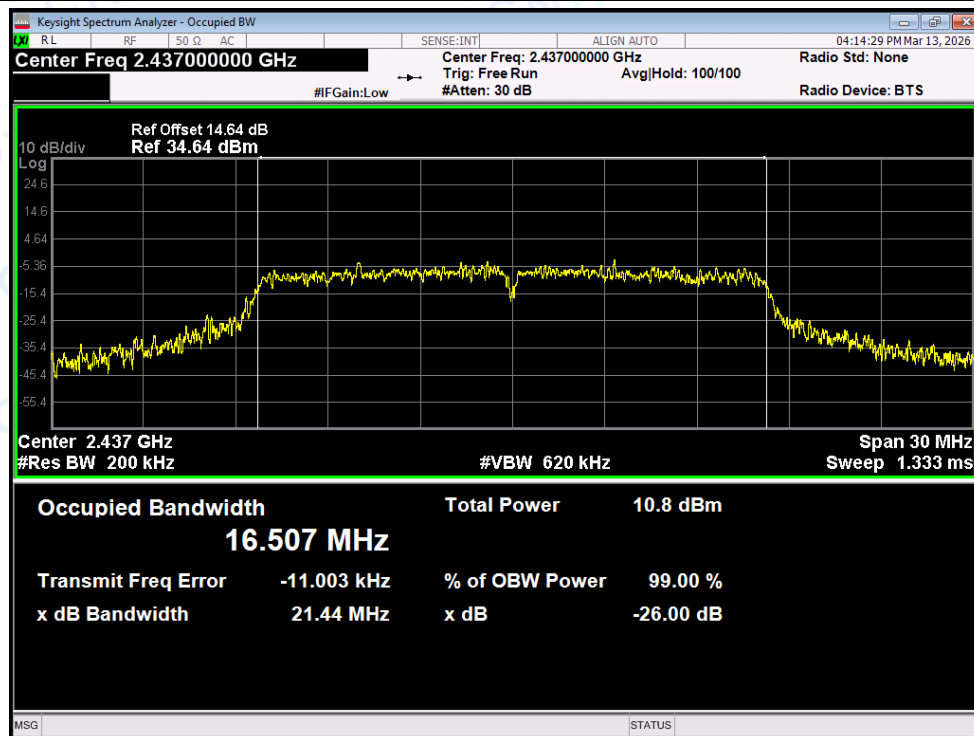
OBW NVNT b 2462MHz Ant1



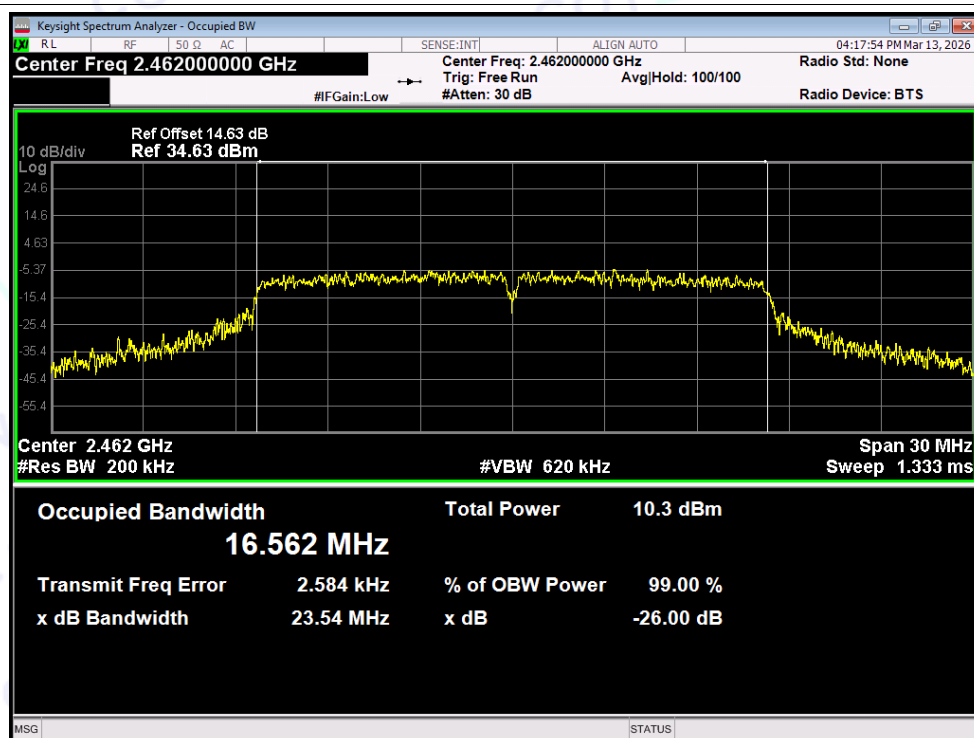
OBW NVNT g 2412MHz Ant1



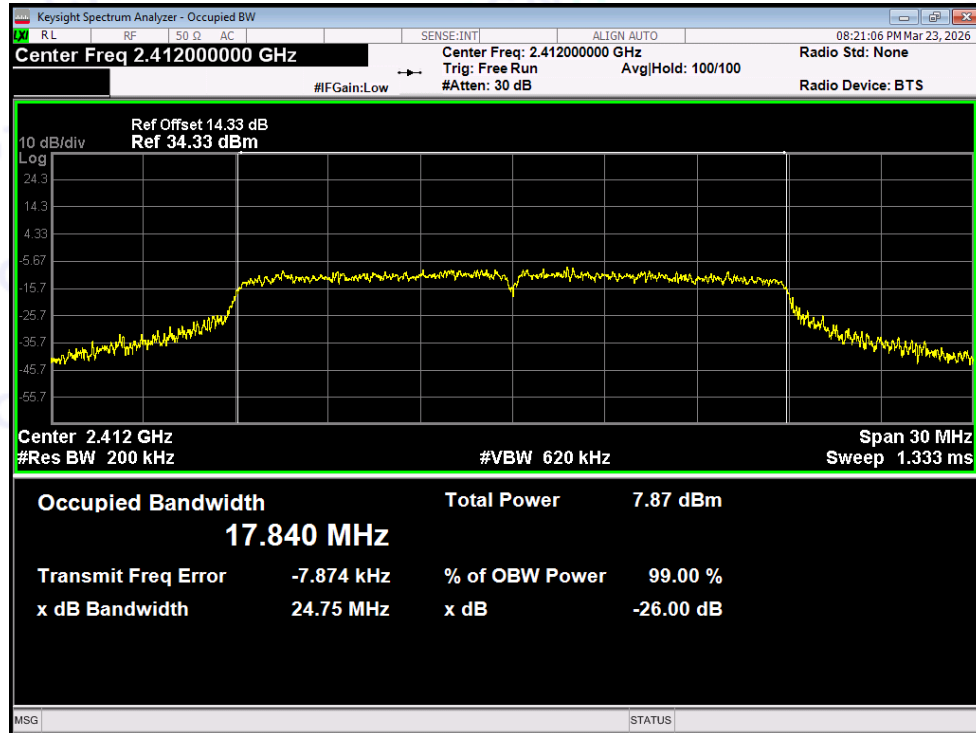
OBW NVNT g 2437MHz Ant1



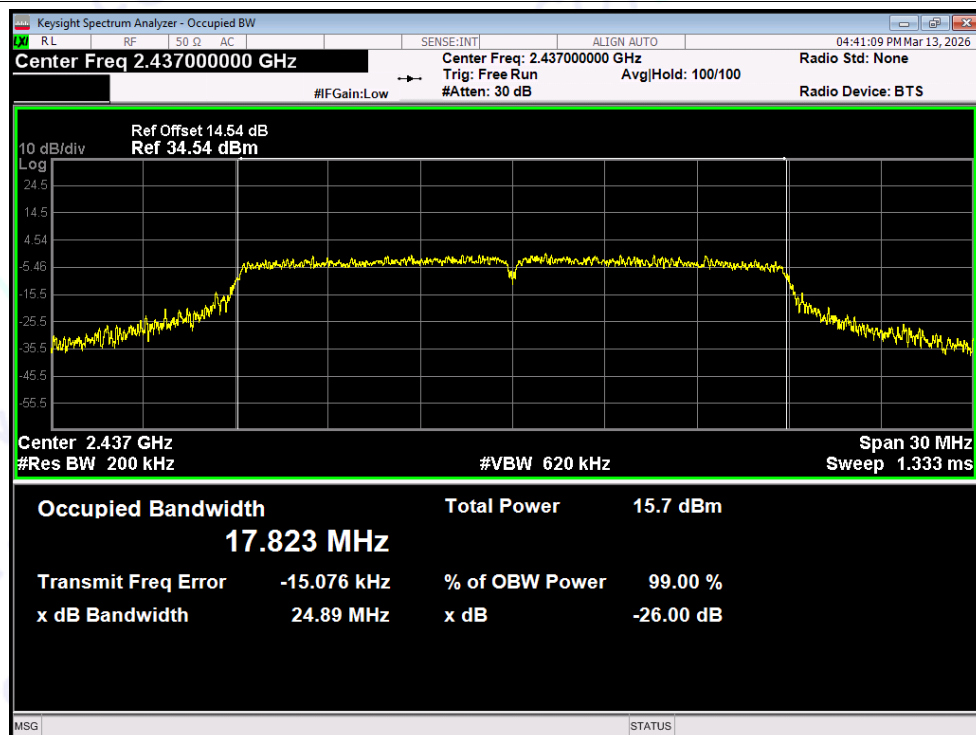
OBW NVNT g 2462MHz Ant1



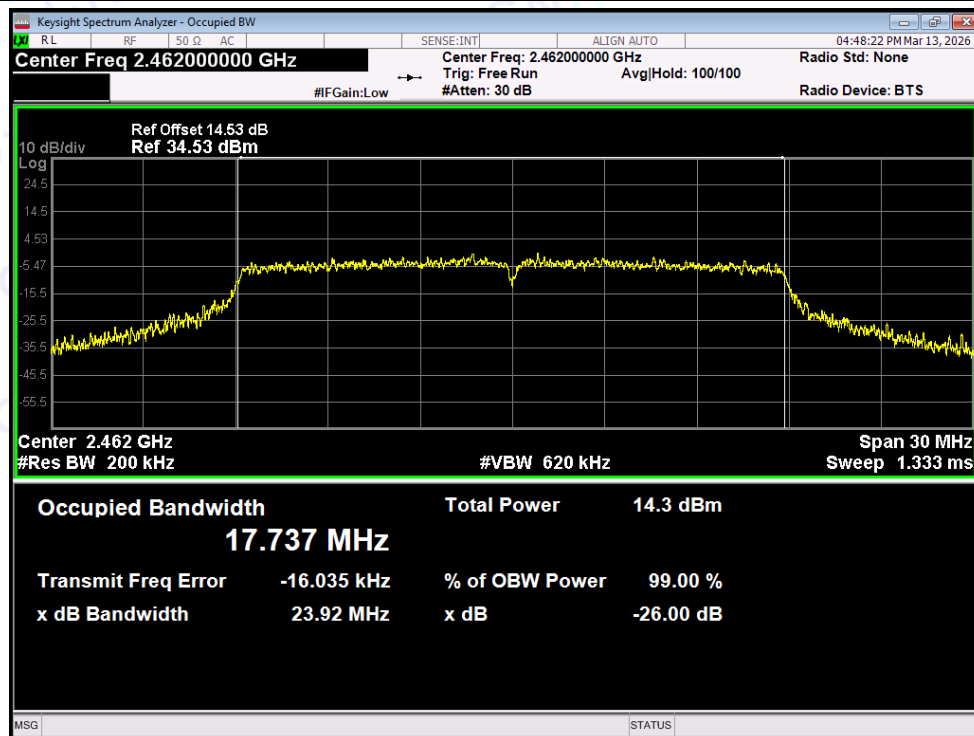
OBW NVNT n(HT20) 2412MHz Ant1



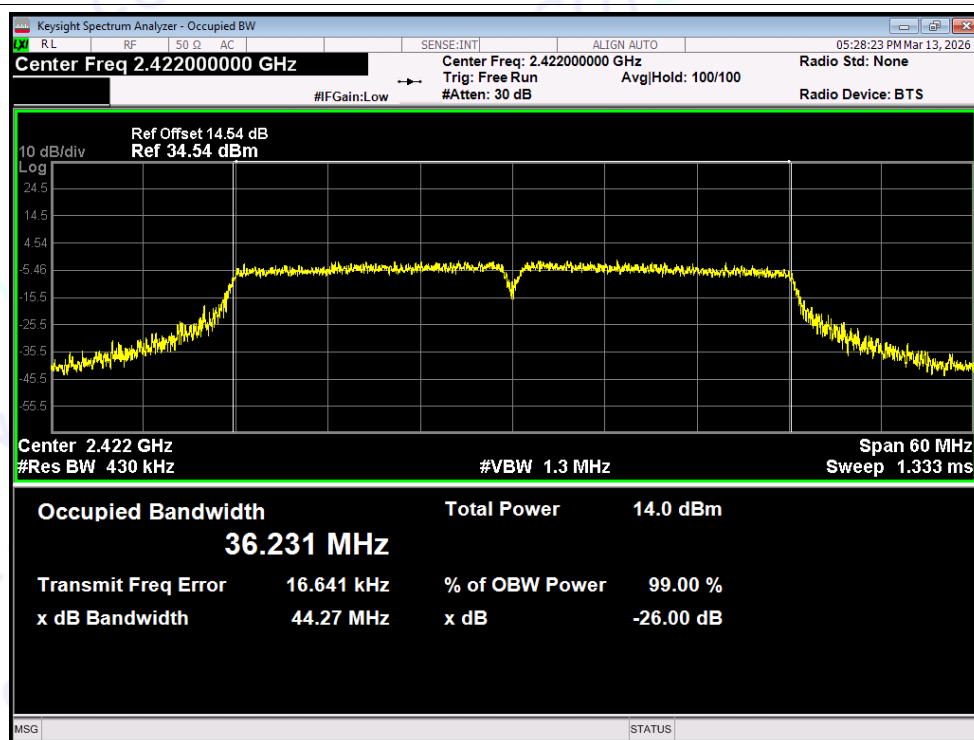
OBW NVNT n(HT20) 2437MHz Ant1



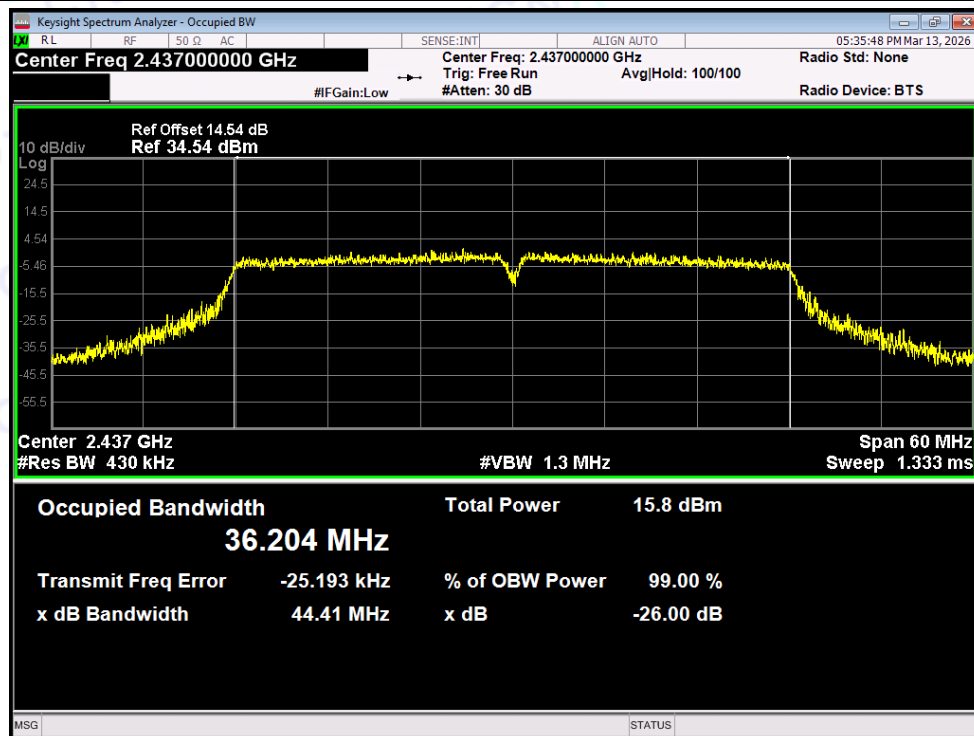
OBW NVNT n(HT20) 2462MHz Ant1



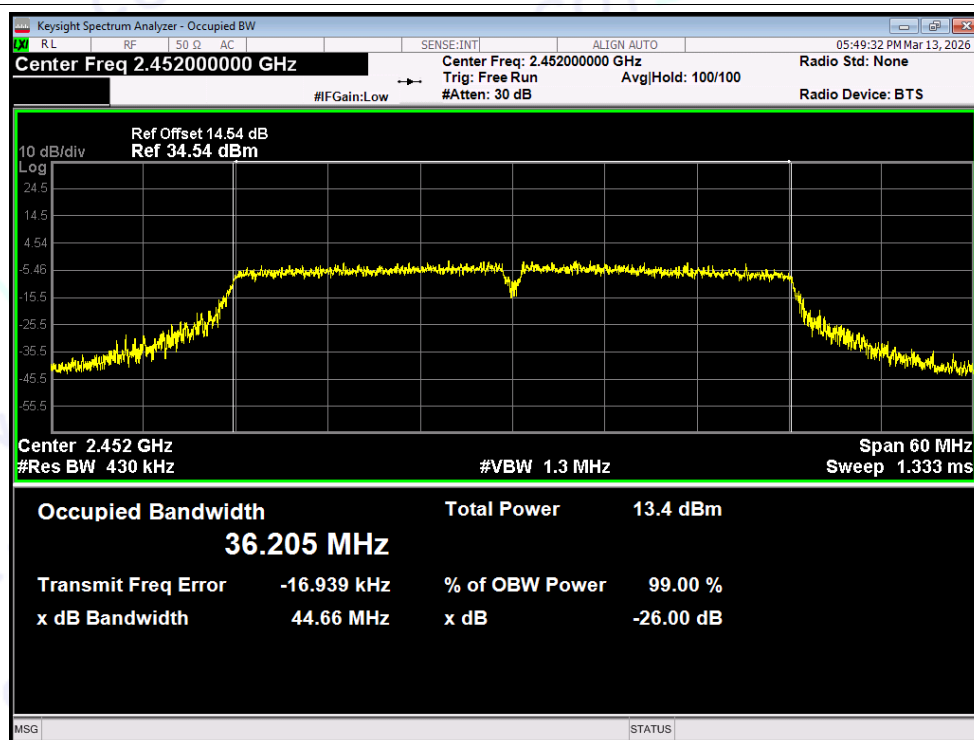
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1

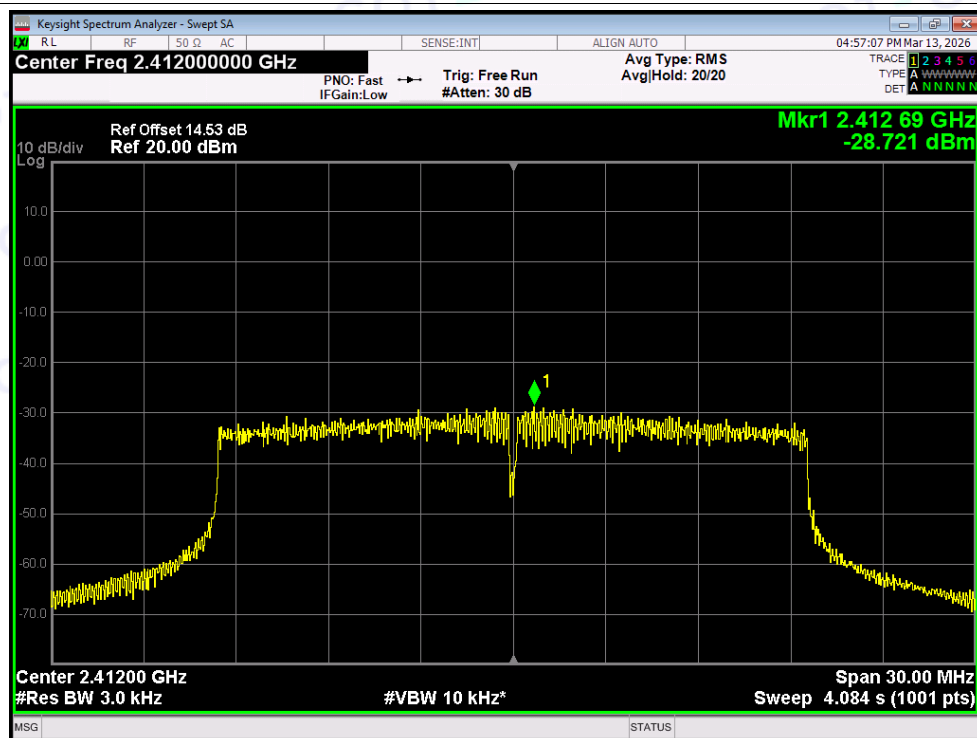


5.Maximum Power Spectral Density Level

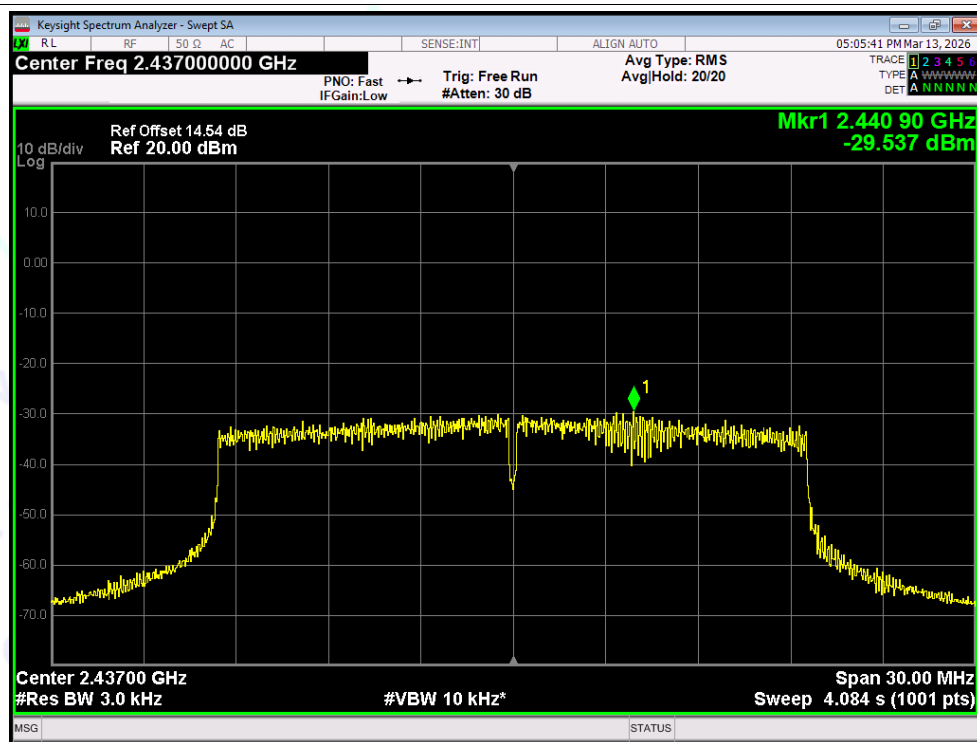
Condition	Mode	Frequency (MHz)	Antenna	RawData (dBm/3kHz)	Correction Factor (dB)	Max. PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	ax(HE20)	2412	Ant1	-28.721	5.36	-23.361	8	Pass
NVNT	ax(HE20)	2437	Ant1	-29.537	5.37	-24.167	8	Pass
NVNT	ax(HE20)	2462	Ant1	-30.519	5.37	-25.149	8	Pass
NVNT	ax(HE40)	2422	Ant1	-34.77	5.37	-29.40	8	Pass
NVNT	ax(HE40)	2437	Ant1	-33.72	5.37	-28.35	8	Pass
NVNT	ax(HE40)	2452	Ant1	-35.143	5.37	-29.773	8	Pass
NVNT	b	2412	Ant1	-21.661	3.4	-18.261	8	Pass
NVNT	b	2437	Ant1	-21.621	3.41	-18.211	8	Pass
NVNT	b	2462	Ant1	-23.187	3.41	-19.777	8	Pass
NVNT	g	2412	Ant1	-38.055	9.15	-28.905	8	Pass
NVNT	g	2437	Ant1	-34.466	9.12	-25.346	8	Pass
NVNT	g	2462	Ant1	-35.043	9.15	-25.893	8	Pass
NVNT	n(HT20)	2412	Ant1	-35.76	5.04	-30.72	8	Pass
NVNT	n(HT20)	2437	Ant1	-27.093	4.73	-22.363	8	Pass
NVNT	n(HT20)	2462	Ant1	-28.424	4.73	-23.694	8	Pass
NVNT	n(HT40)	2422	Ant1	-31.847	4.84	-27.007	8	Pass
NVNT	n(HT40)	2437	Ant1	-30.235	4.85	-25.385	8	Pass
NVNT	n(HT40)	2452	Ant1	-32.857	4.85	-28.007	8	Pass

Test Graphs

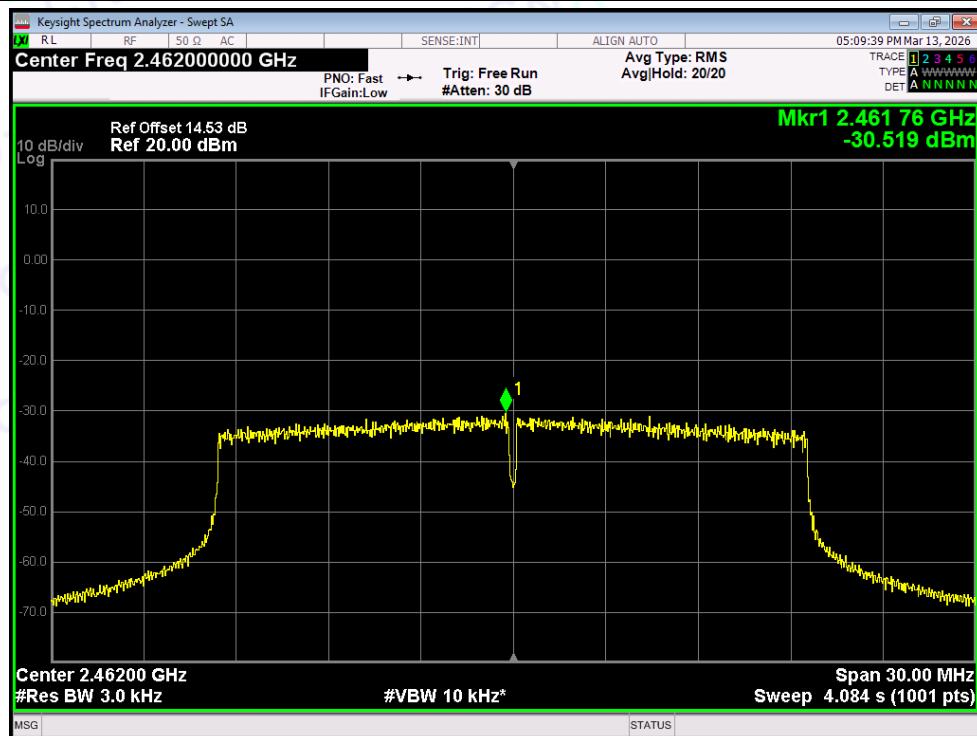
PSD NVNT ax(HE20) 2412MHz Ant1



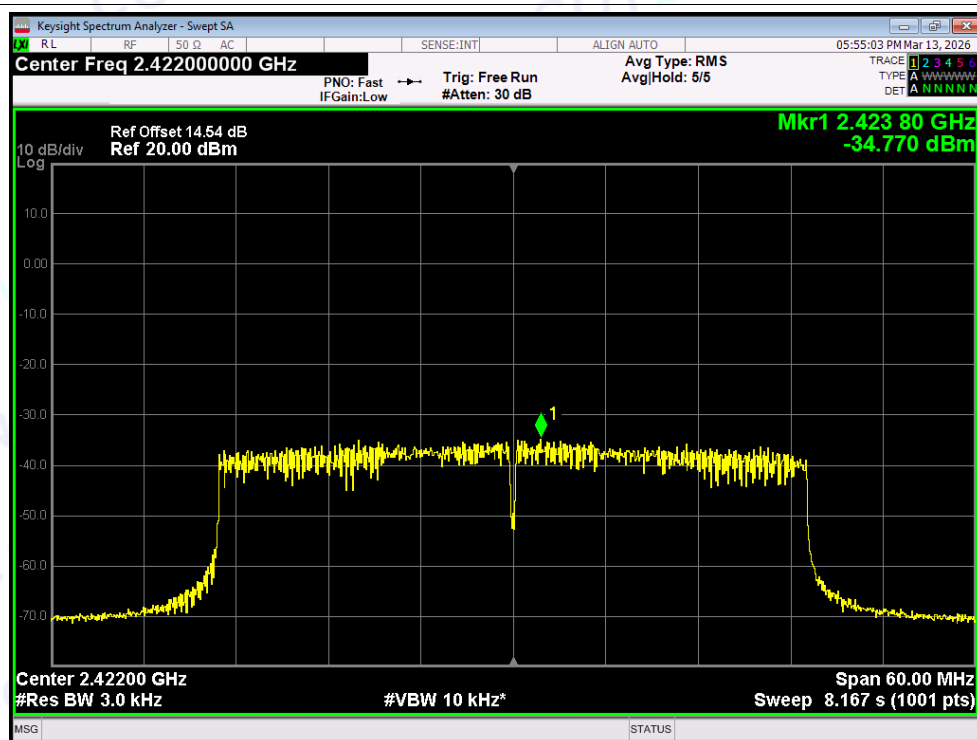
PSD NVNT ax(HE20) 2437MHz Ant1



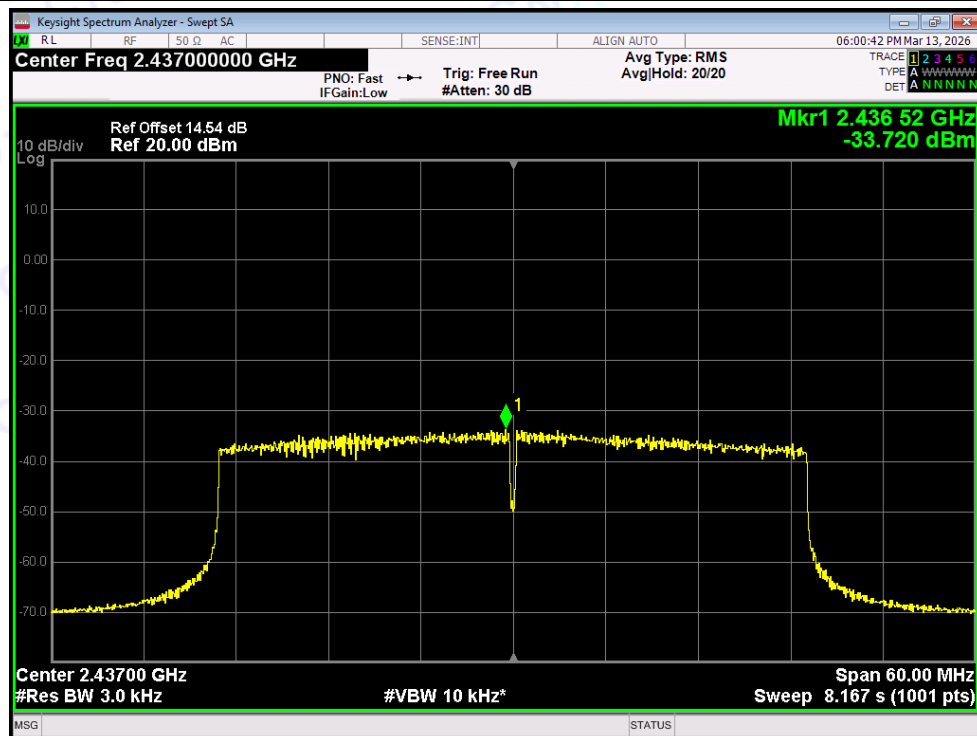
PSD NVNT ax(HE20) 2462MHz Ant1



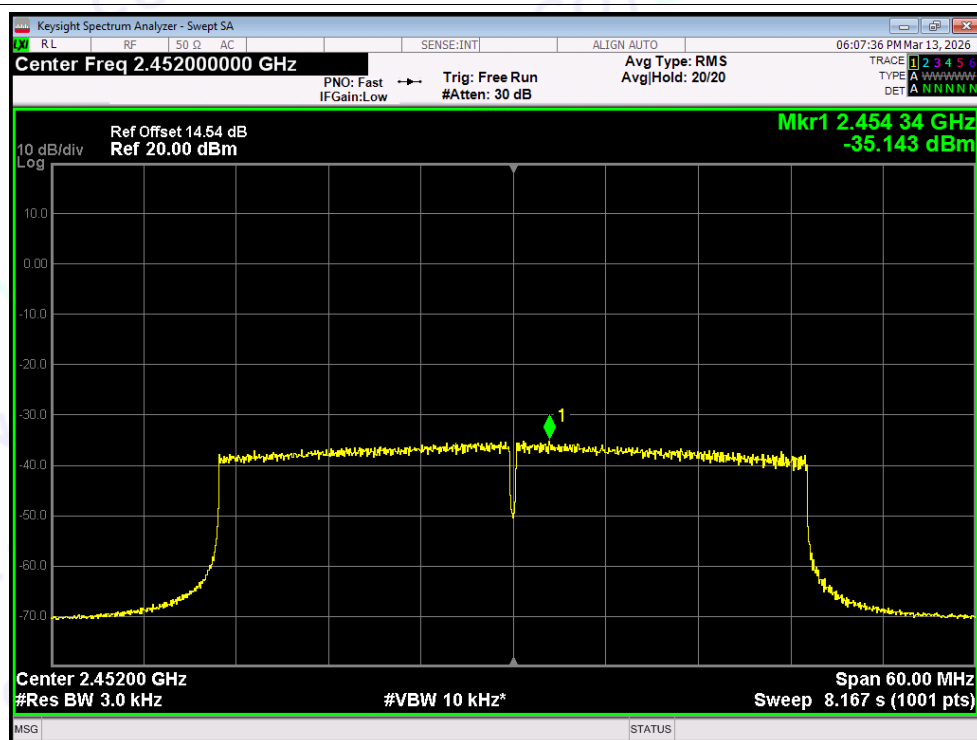
PSD NVNT ax(HE40) 2422MHz Ant1



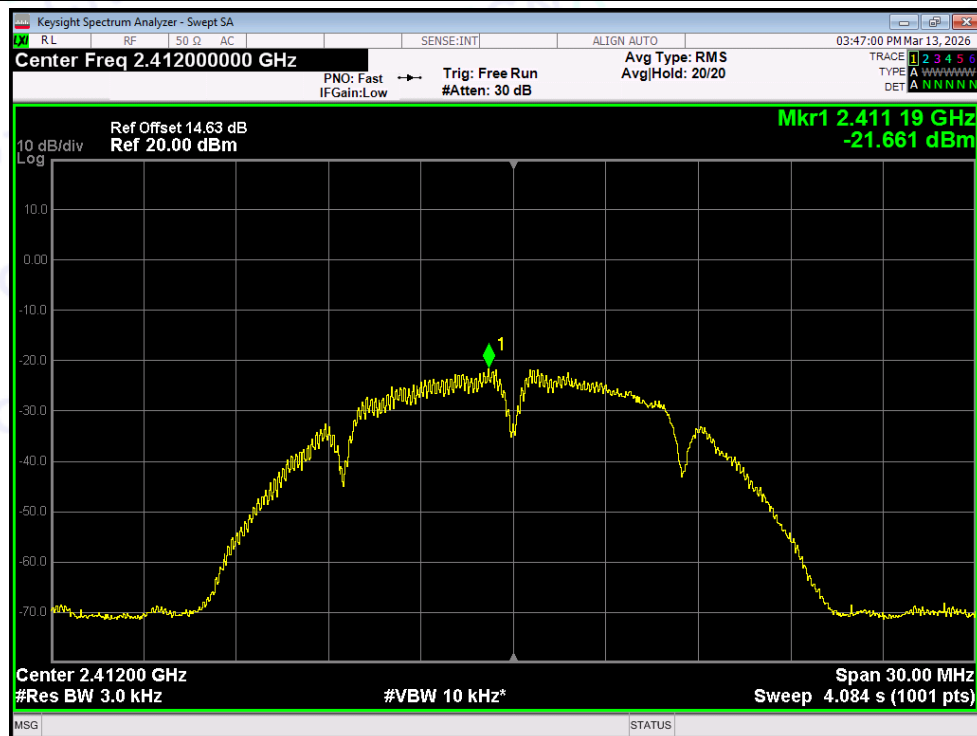
PSD NVNT ax(HE40) 2437MHz Ant1



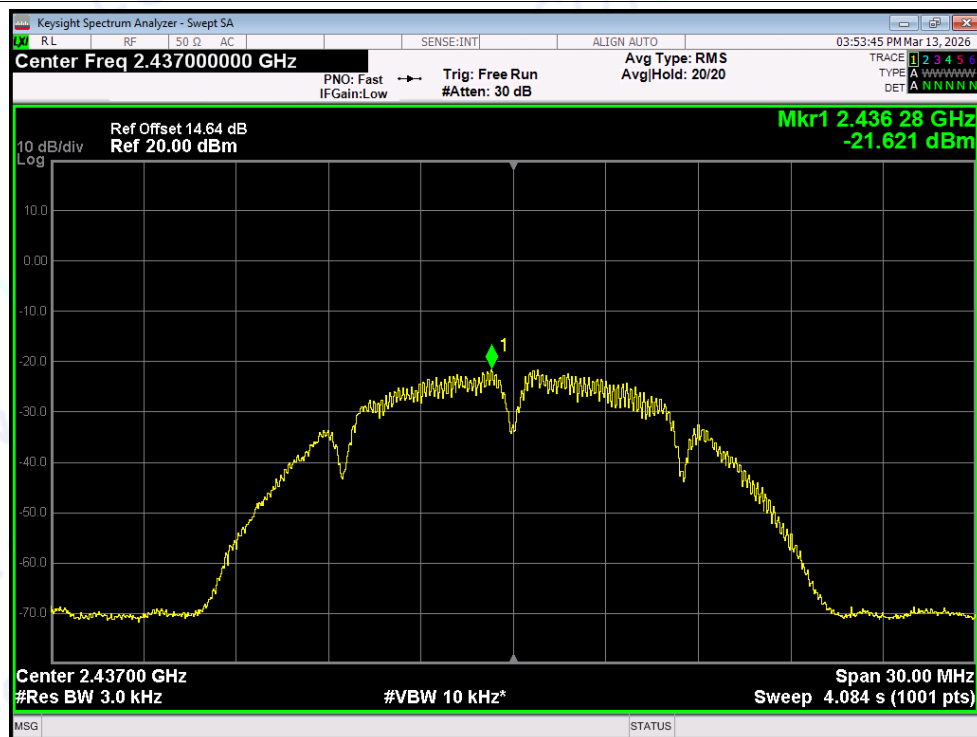
PSD NVNT ax(HE40) 2452MHz Ant1



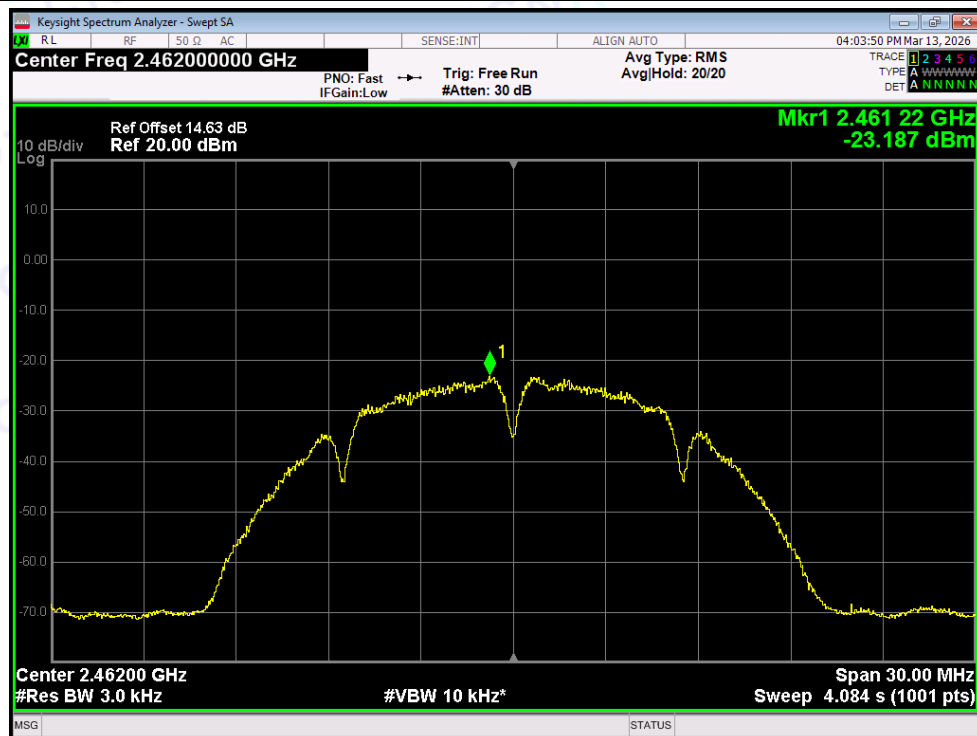
PSD NVNT b 2412MHz Ant1



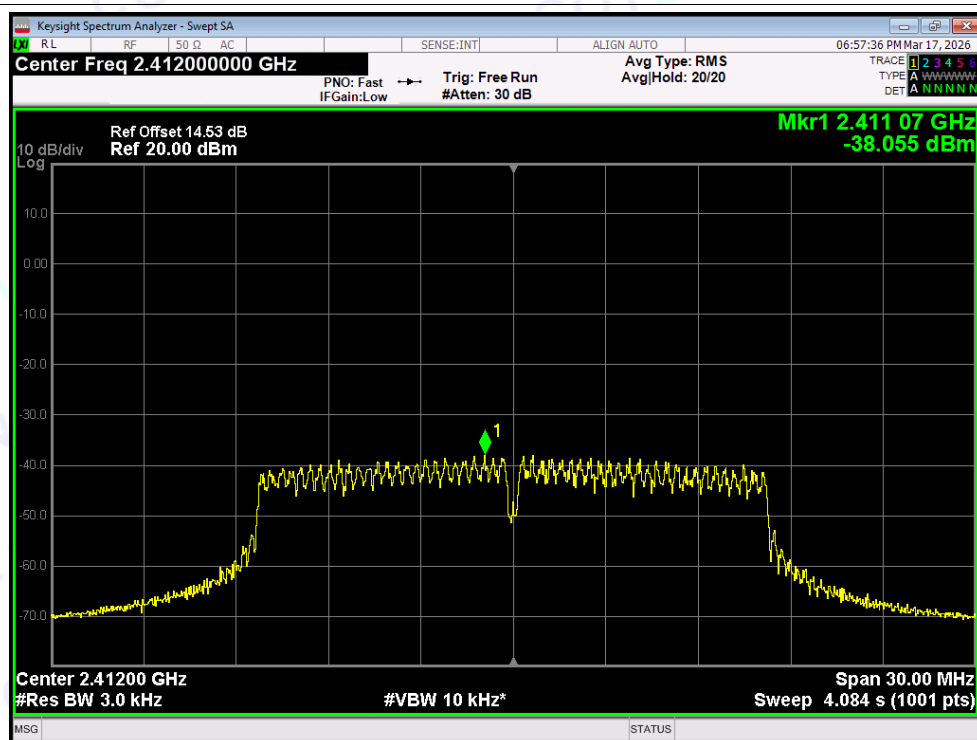
PSD NVNT b 2437MHz Ant1



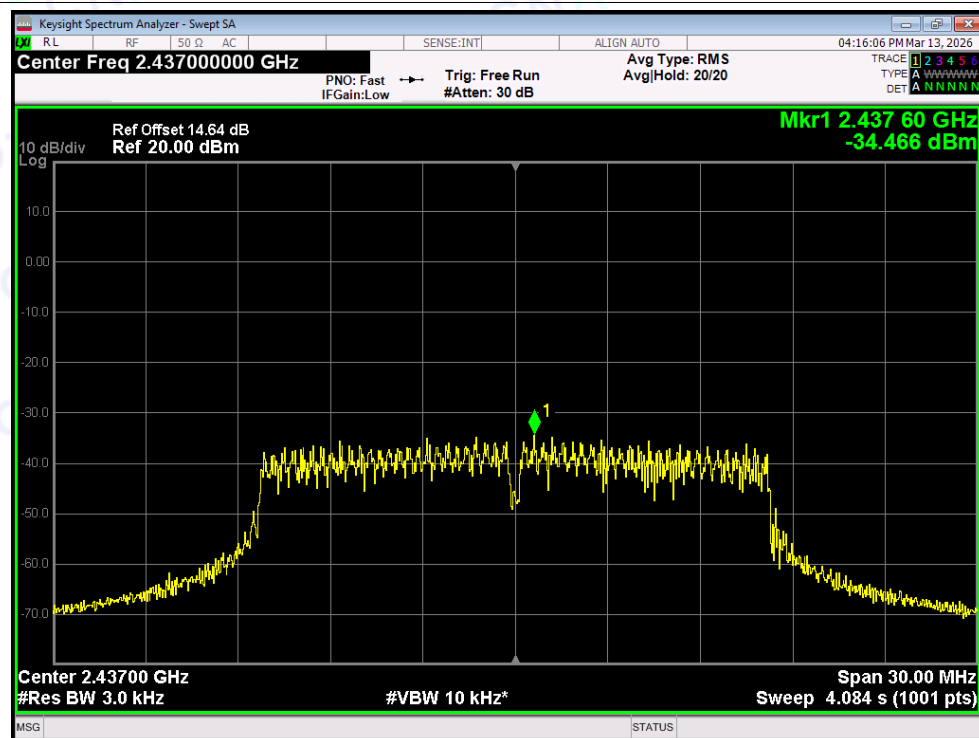
PSD NVNT b 2462MHz Ant1



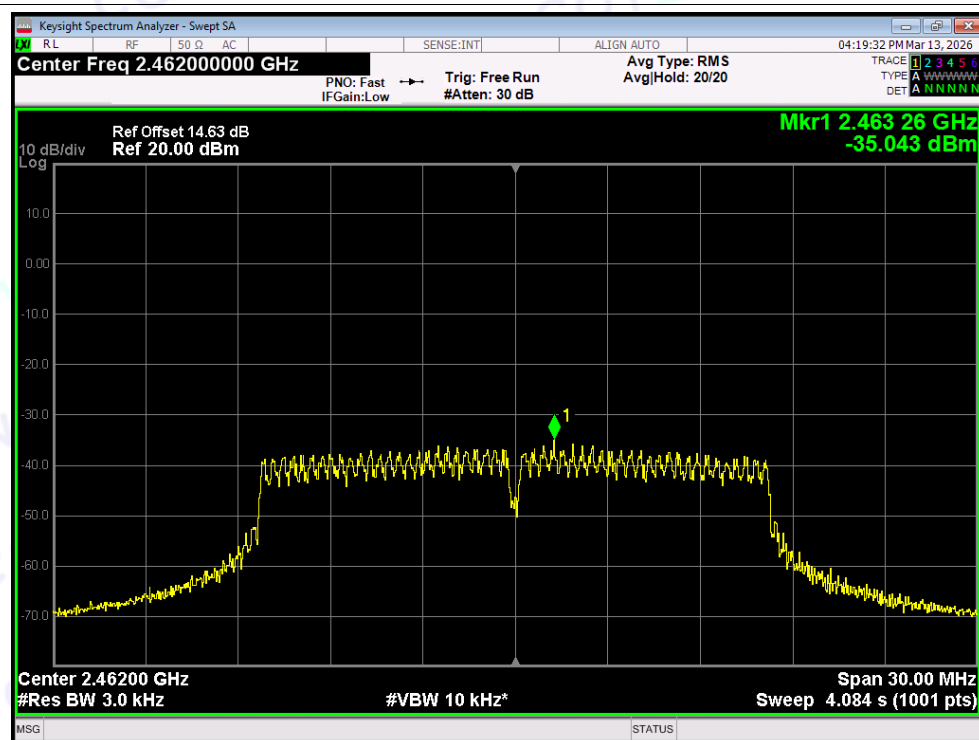
PSD NVNT g 2412MHz Ant1



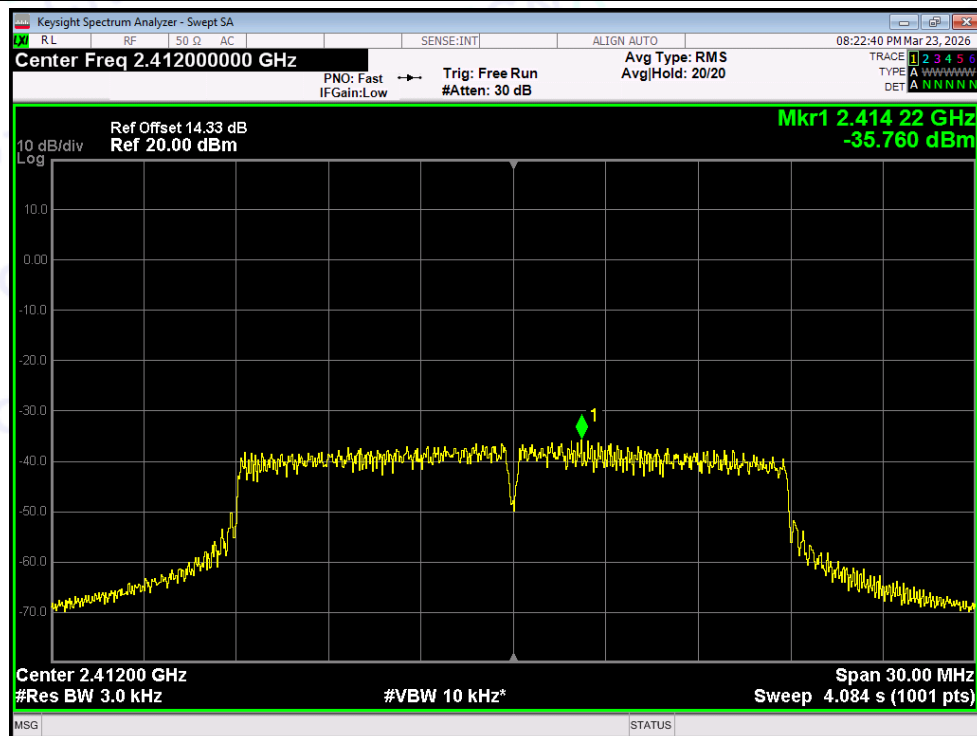
PSD NVNT g 2437MHz Ant1



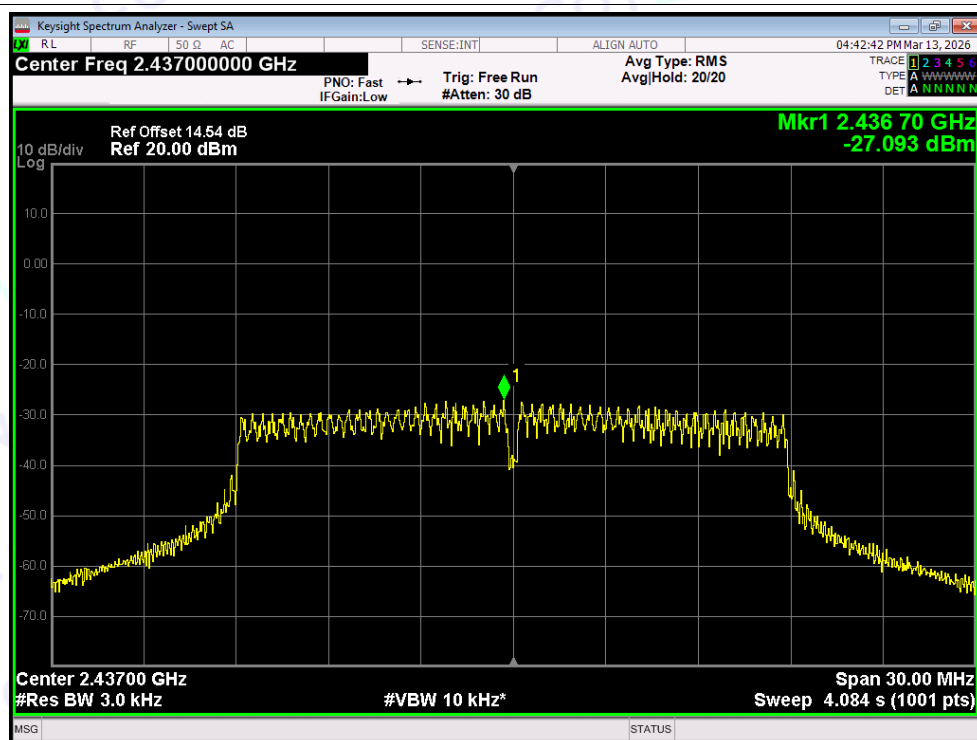
PSD NVNT g 2462MHz Ant1



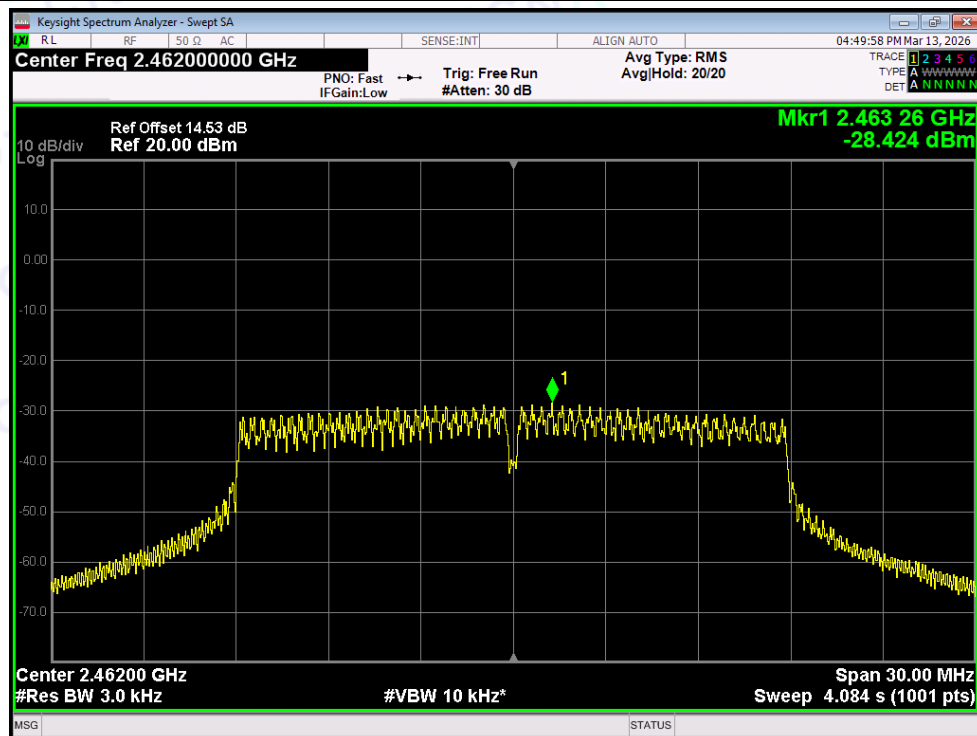
PSD NVNT n(HT20) 2412MHz Ant1



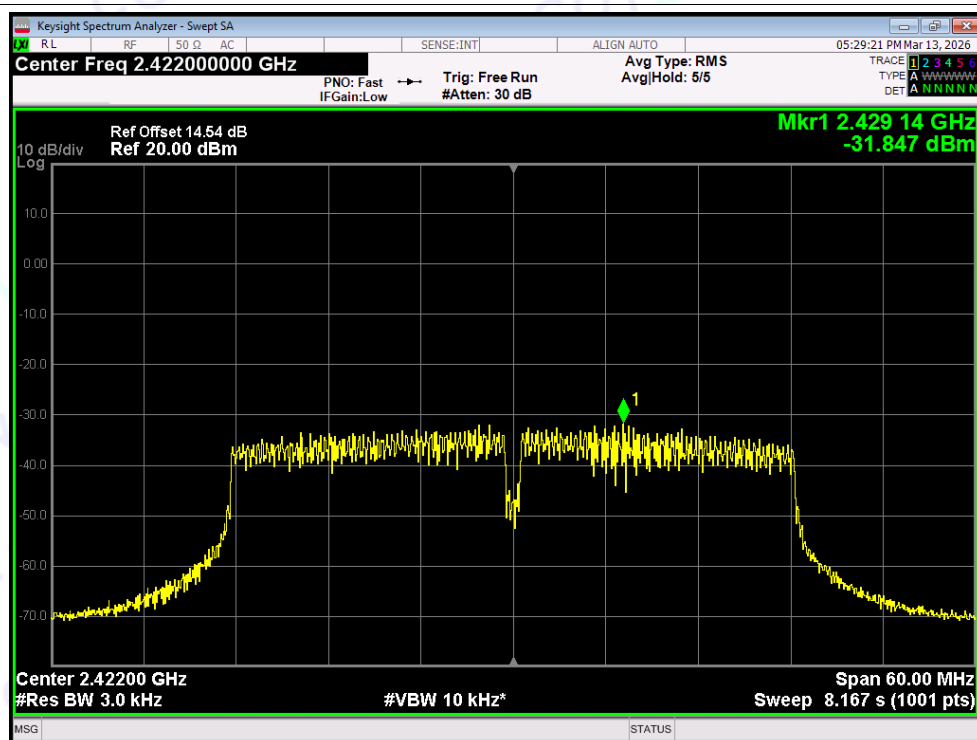
PSD NVNT n(HT20) 2437MHz Ant1



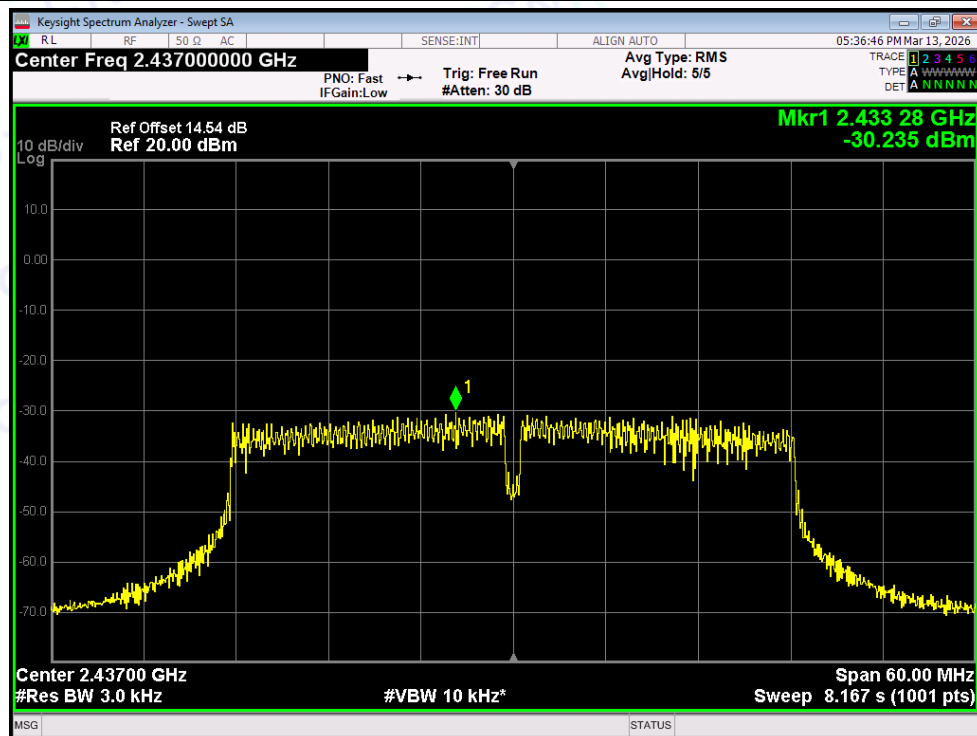
PSD NVNT n(HT20) 2462MHz Ant1



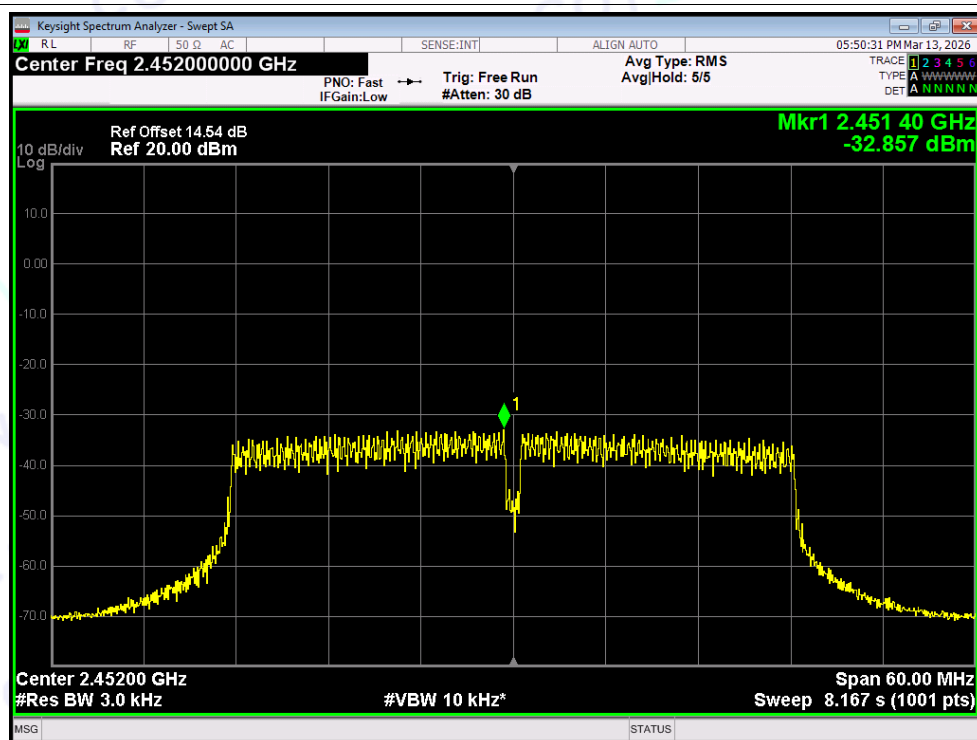
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1



6.Band Edge

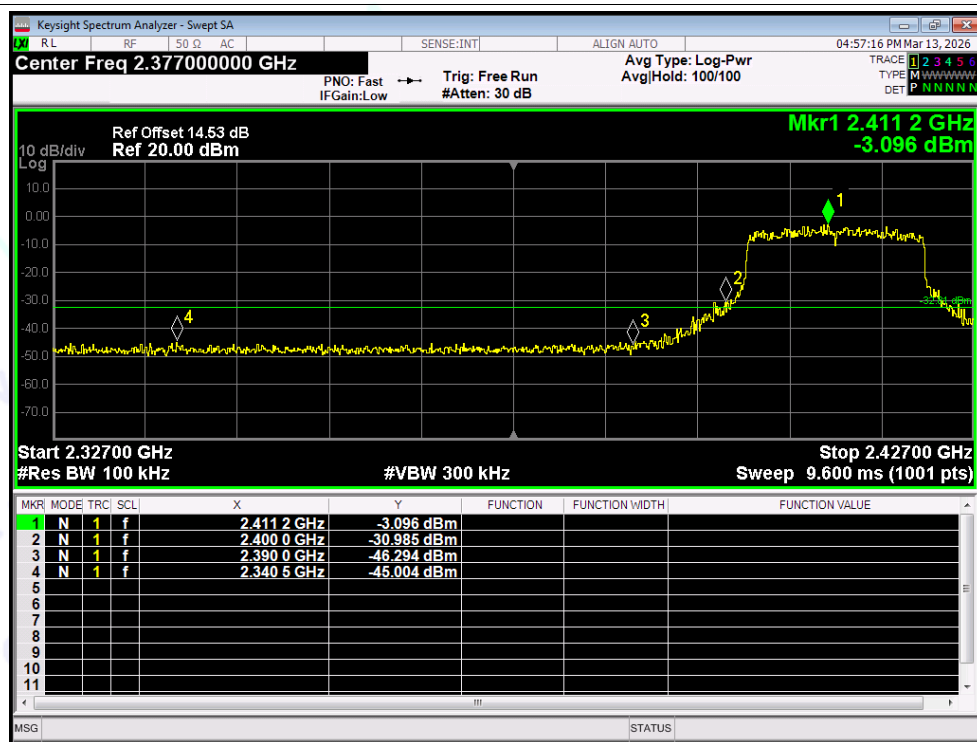
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(HE20)	2412	Ant1	-42.19	-30	Pass
NVNT	ax(HE20)	2462	Ant1	-42.27	-30	Pass
NVNT	ax(HE40)	2422	Ant1	-37.47	-30	Pass
NVNT	ax(HE40)	2452	Ant1	-37.87	-30	Pass
NVNT	b	2412	Ant1	-48.51	-30	Pass
NVNT	b	2462	Ant1	-46.85	-30	Pass
NVNT	g	2412	Ant1	-30.27	-30	Pass
NVNT	g	2462	Ant1	-37.92	-30	Pass
NVNT	n(HT20)	2412	Ant1	-48.62	-30	Pass
NVNT	n(HT20)	2462	Ant1	-40.67	-30	Pass
NVNT	n(HT40)	2422	Ant1	-38.77	-30	Pass
NVNT	n(HT40)	2452	Ant1	-38.63	-30	Pass

Test Graphs

Band Edge NVNT ax(HE20) 2412MHz Ant1 Ref



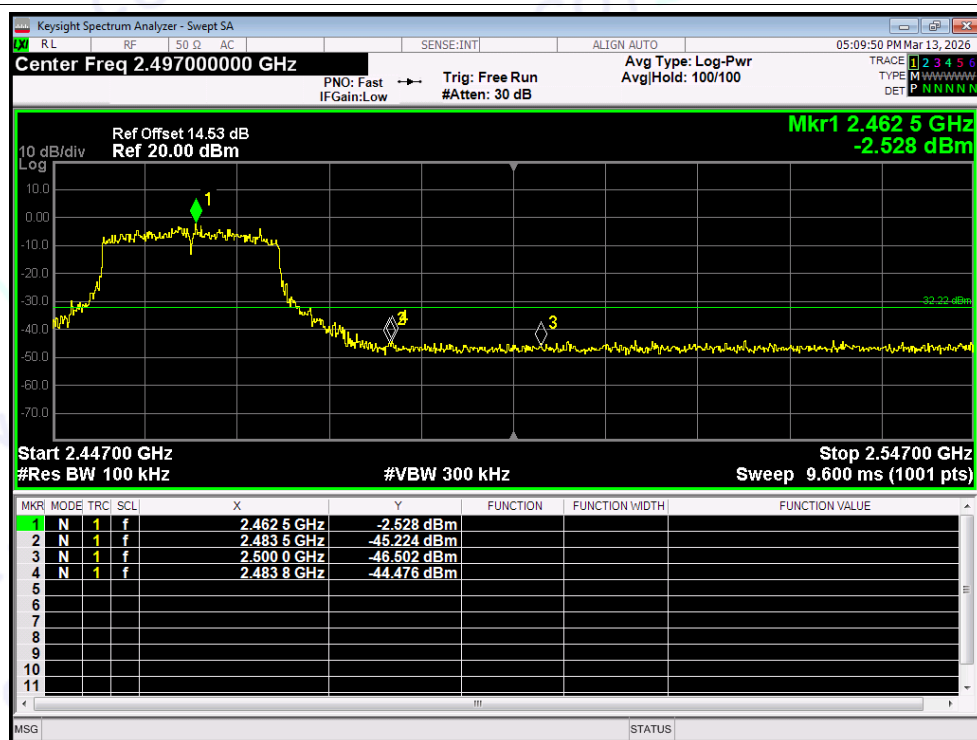
Band Edge NVNT ax(HE20) 2412MHz Ant1 Emission



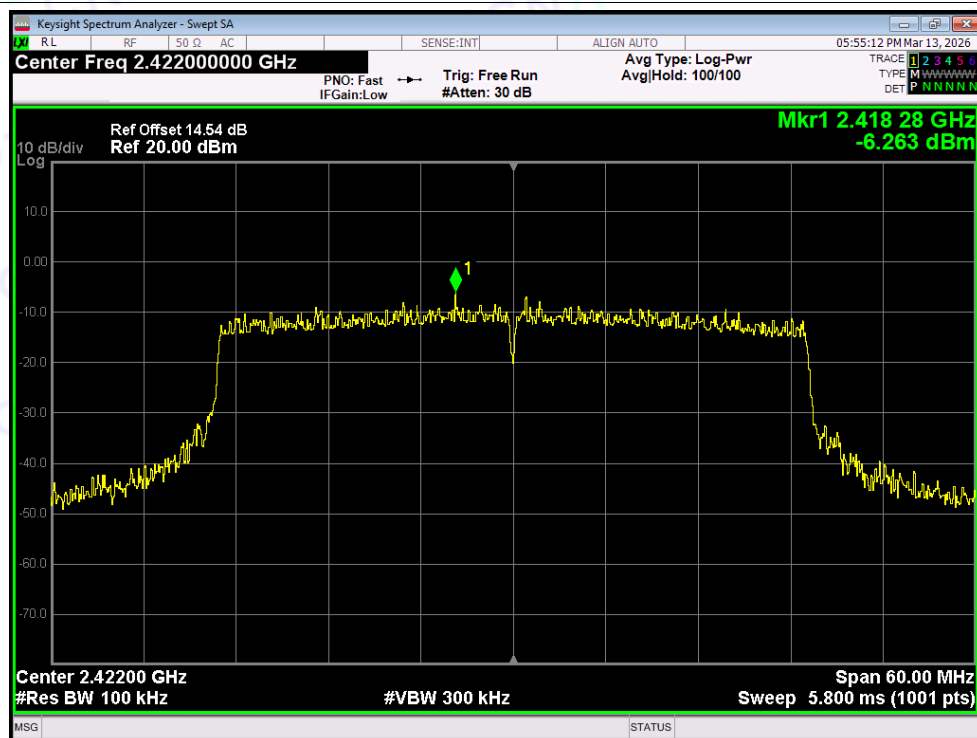
Band Edge NVNT ax(HE20) 2462MHz Ant1 Ref



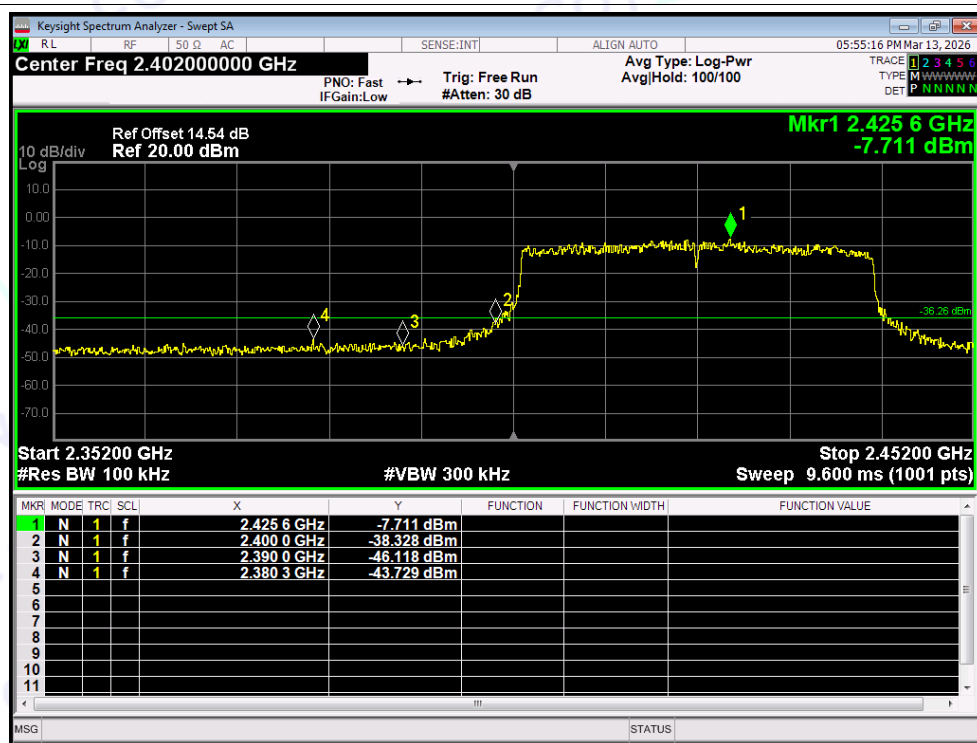
Band Edge NVNT ax(HE20) 2462MHz Ant1 Emission



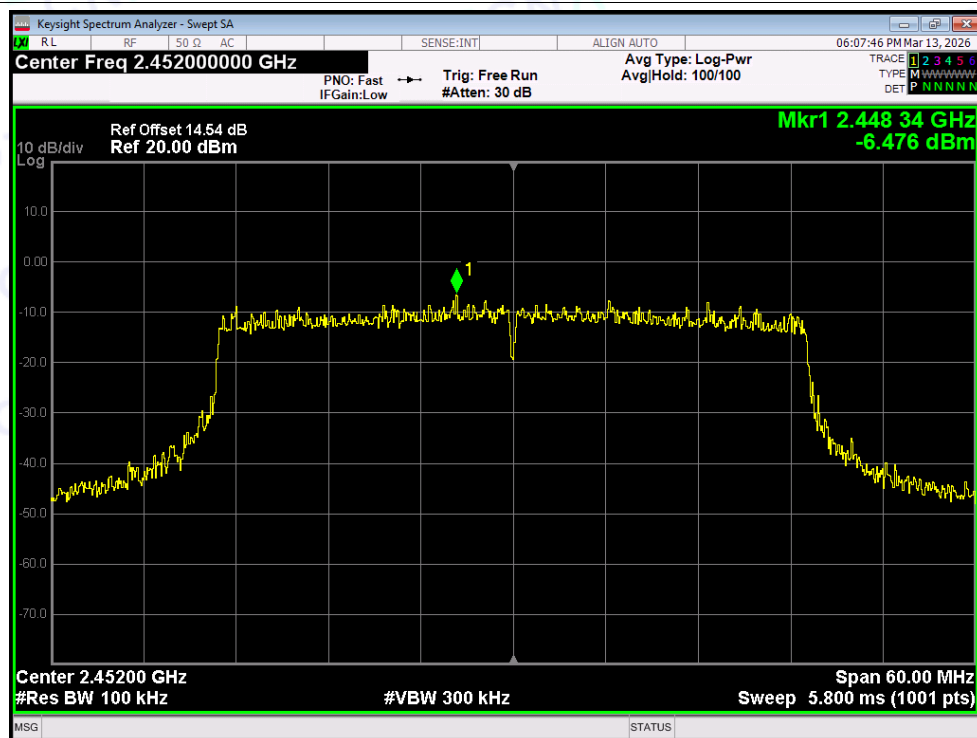
Band Edge NVNT ax(HE40) 2422MHz Ant1 Ref



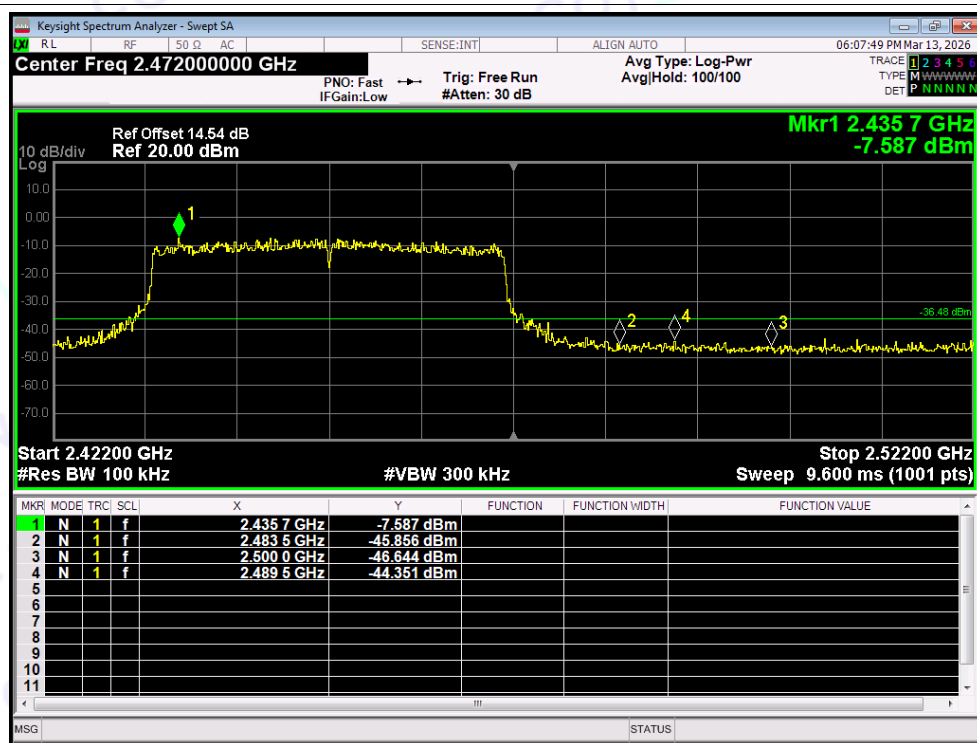
Band Edge NVNT ax(HE40) 2422MHz Ant1 Emission



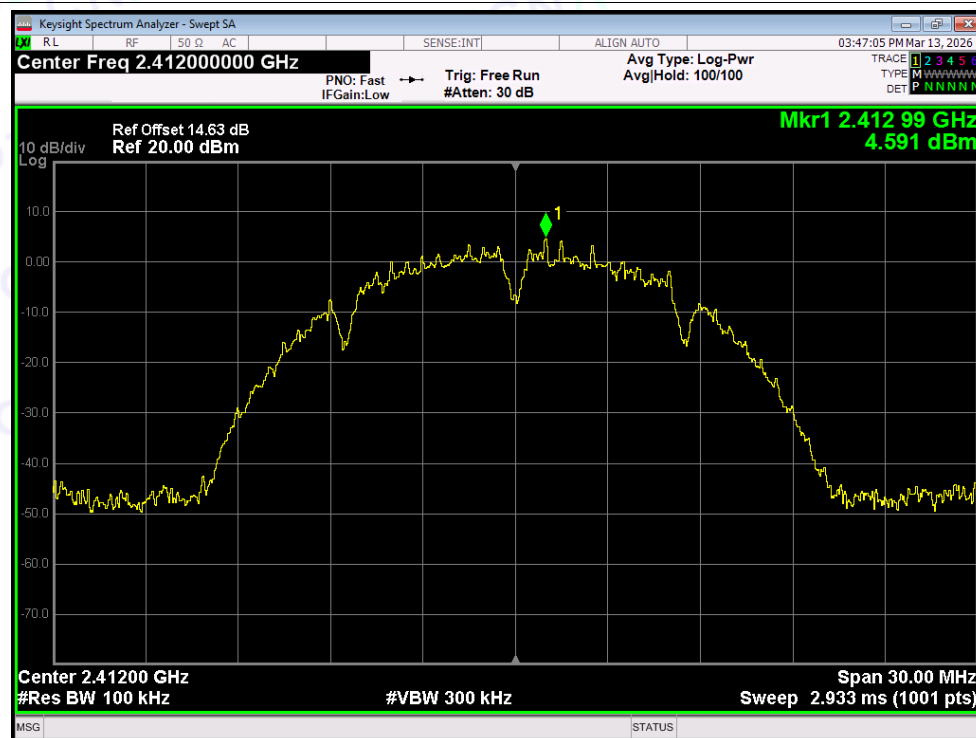
Band Edge NVNT ax(HE40) 2452MHz Ant1 Ref



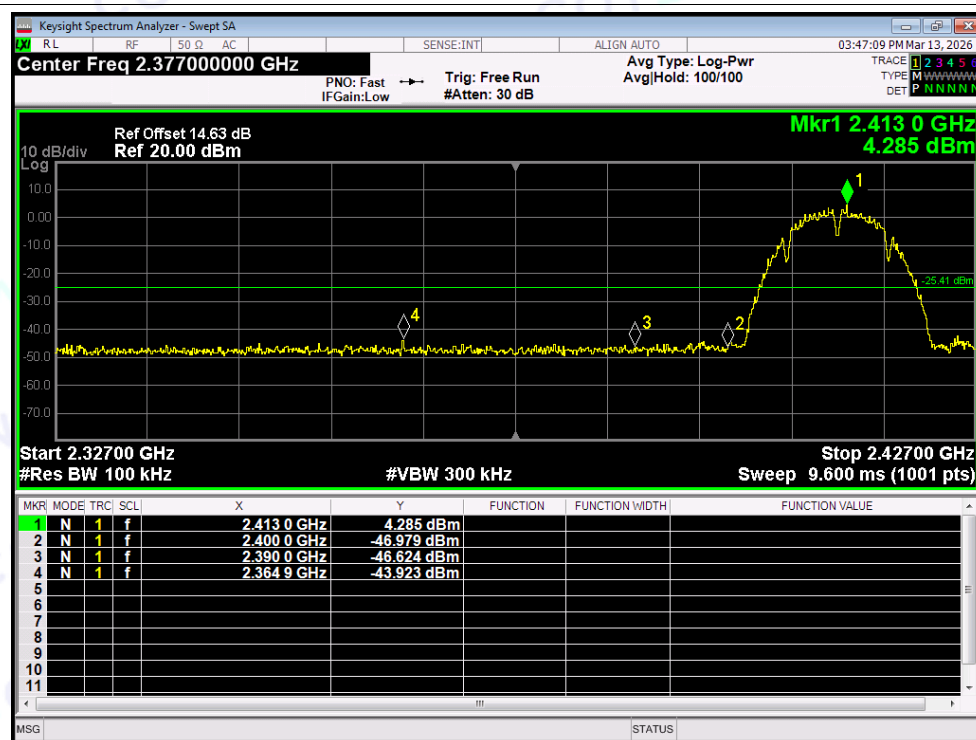
Band Edge NVNT ax(HE40) 2452MHz Ant1 Emission



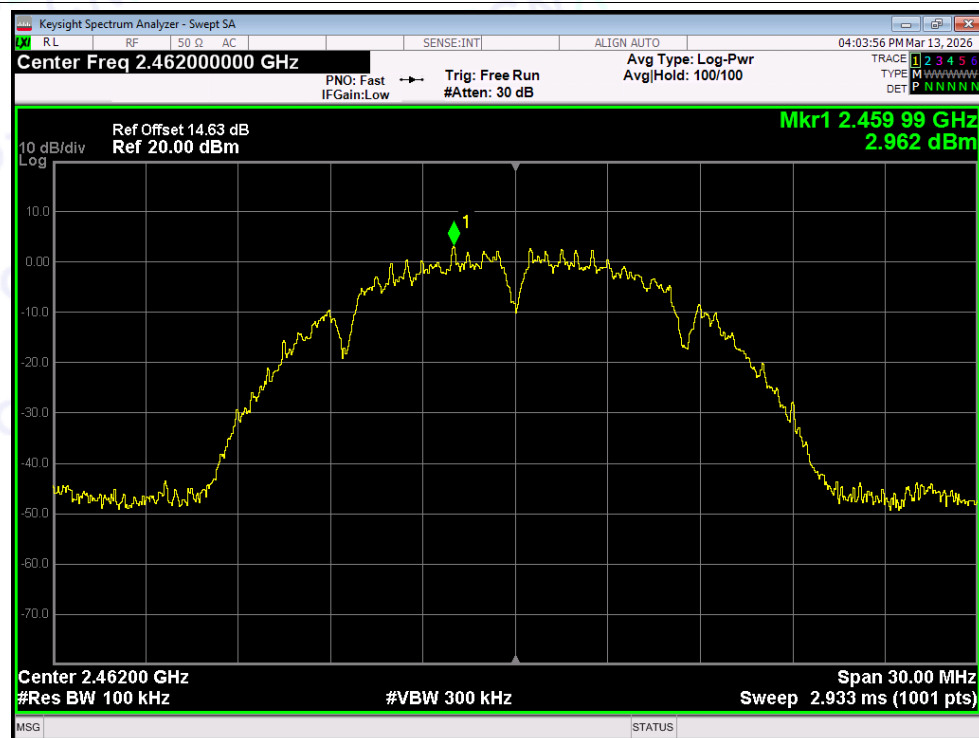
Band Edge NVNT b 2412MHz Ant1 Ref



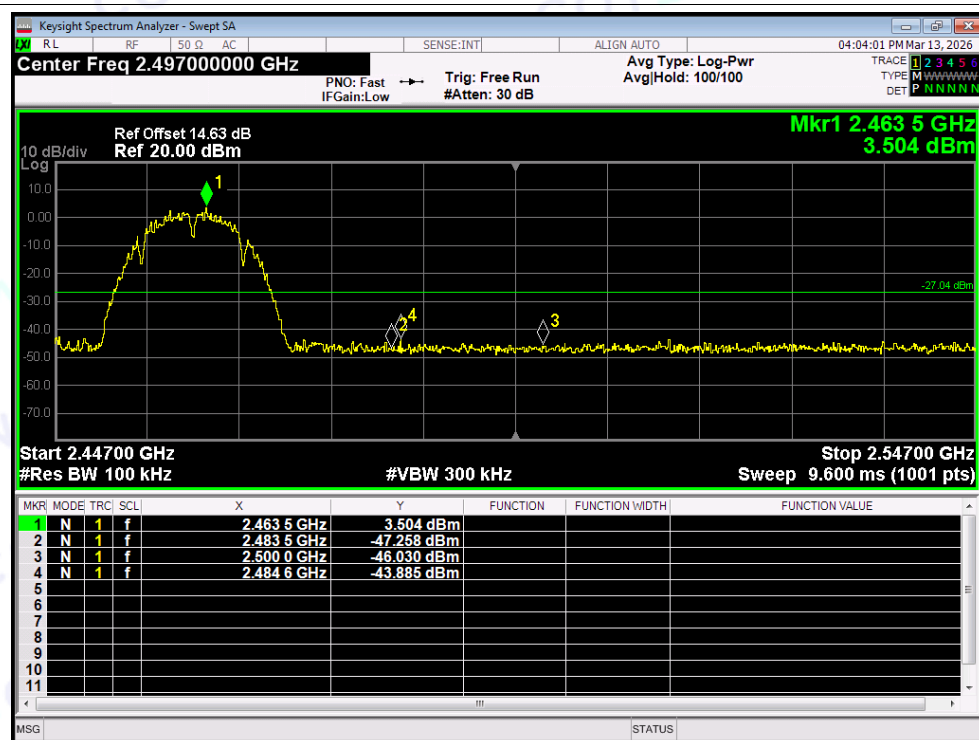
Band Edge NVNT b 2412MHz Ant1 Emission



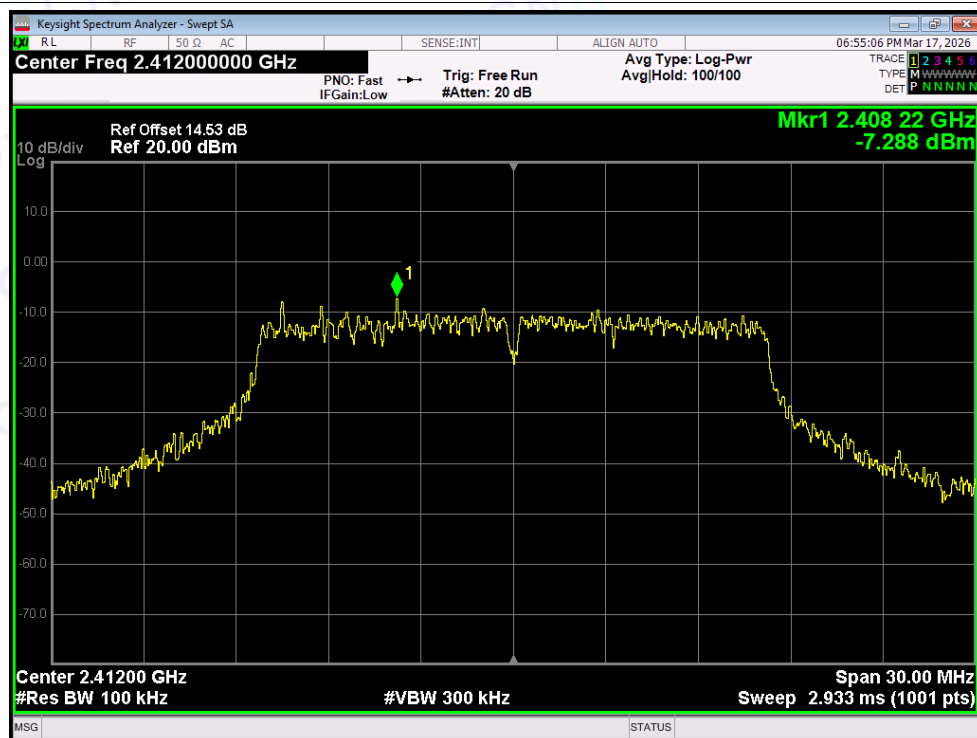
Band Edge NVNT b 2462MHz Ant1 Ref



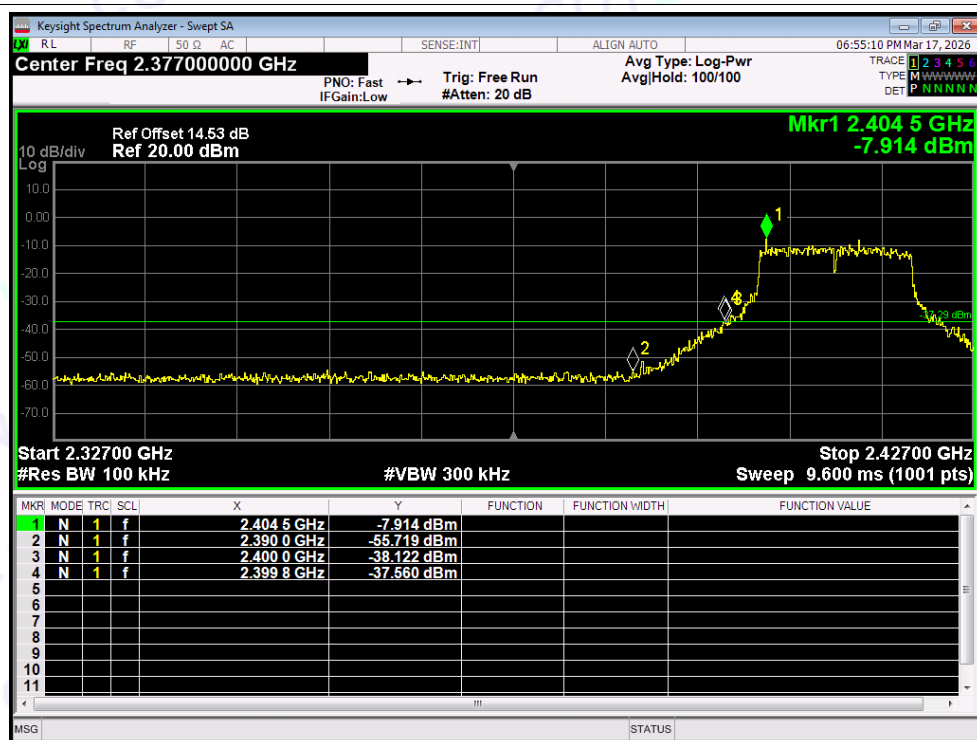
Band Edge NVNT b 2462MHz Ant1 Emission



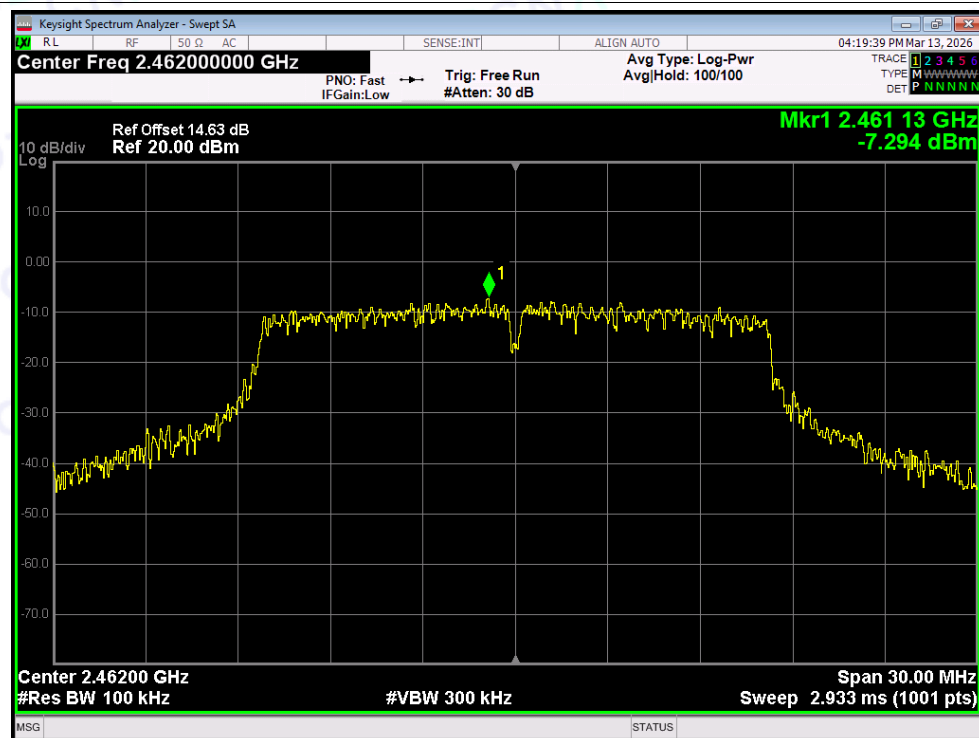
Band Edge NVNT g 2412MHz Ant1 Ref



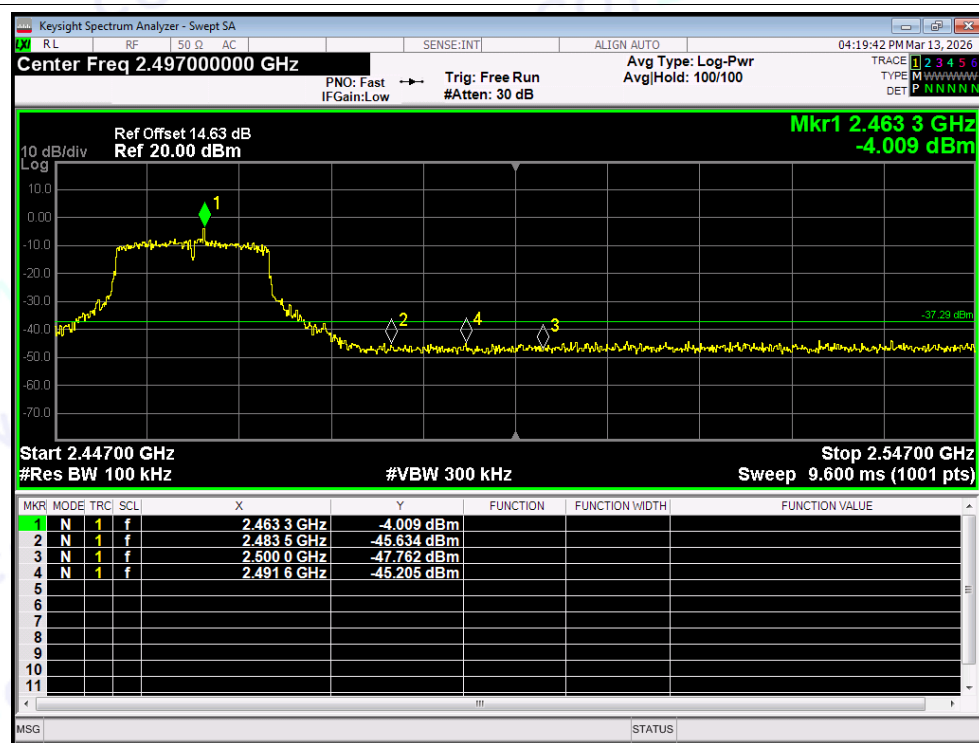
Band Edge NVNT g 2412MHz Ant1 Emission



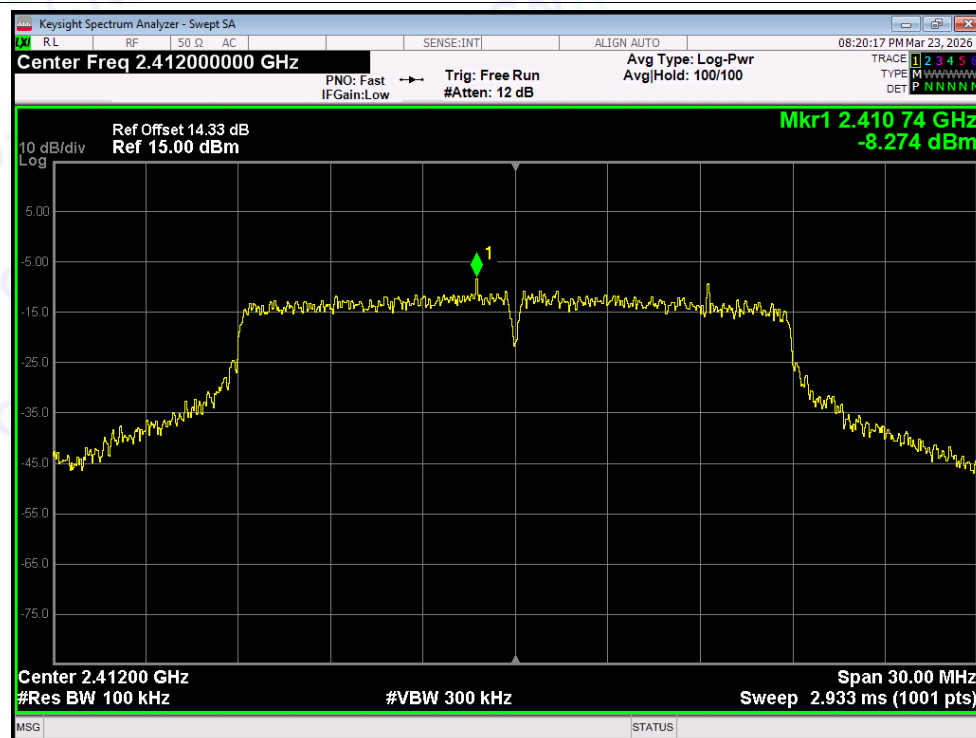
Band Edge NVNT g 2462MHz Ant1 Ref



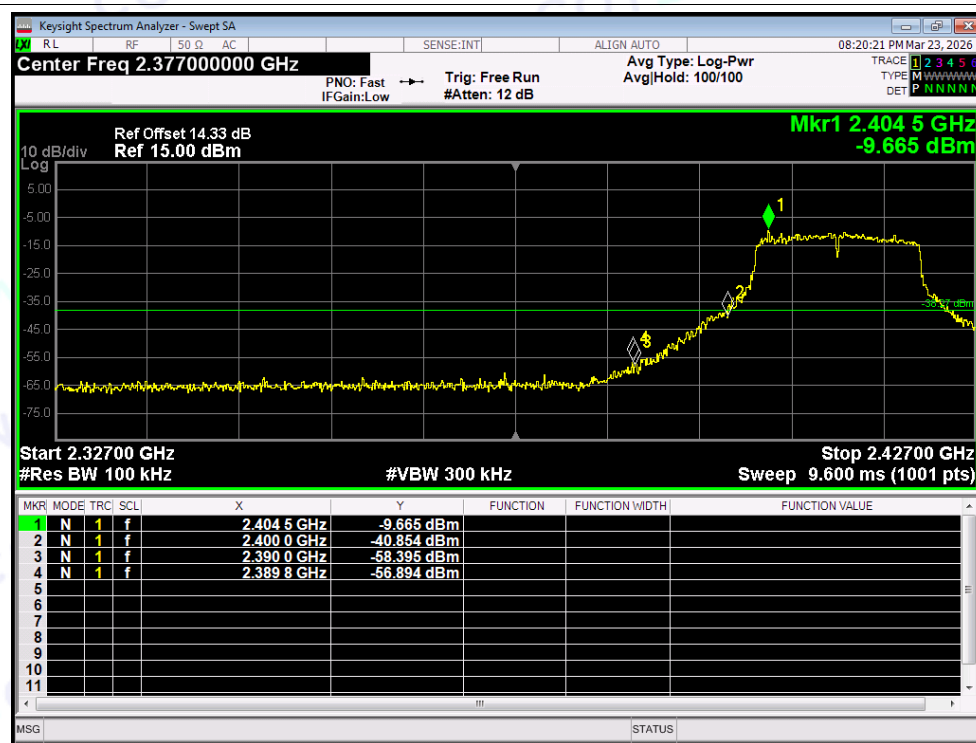
Band Edge NVNT g 2462MHz Ant1 Emission



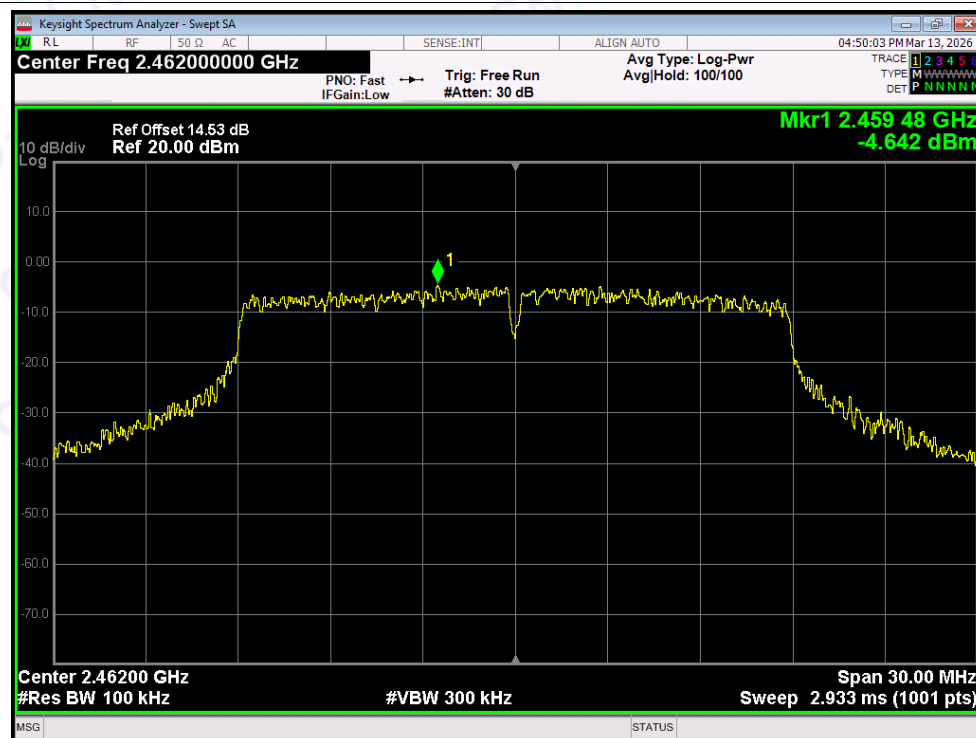
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



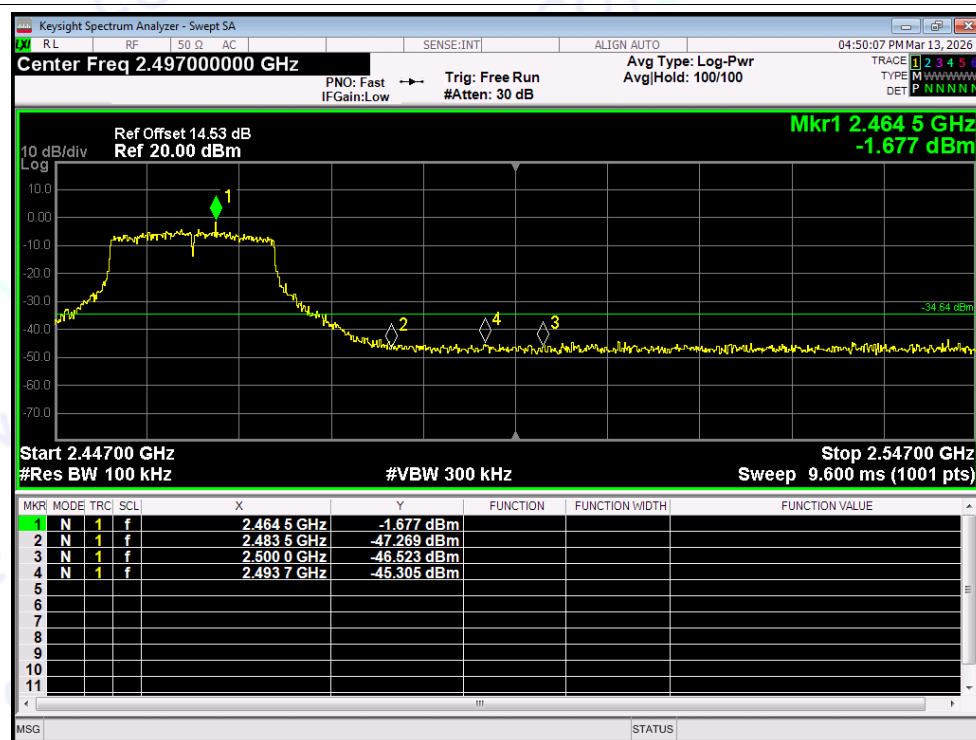
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



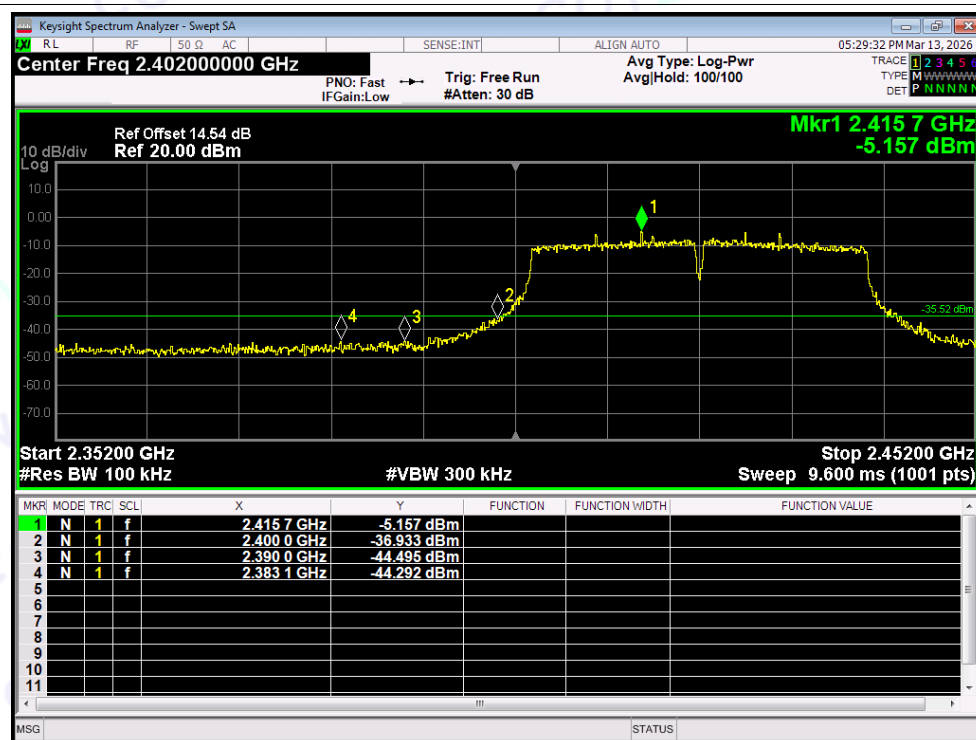
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



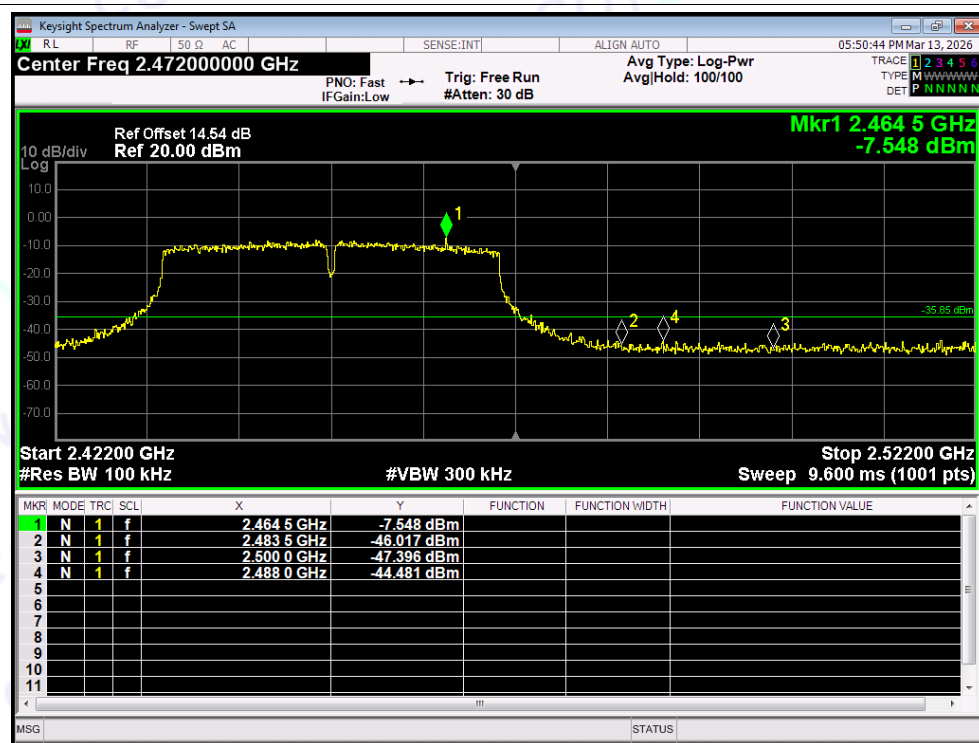
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

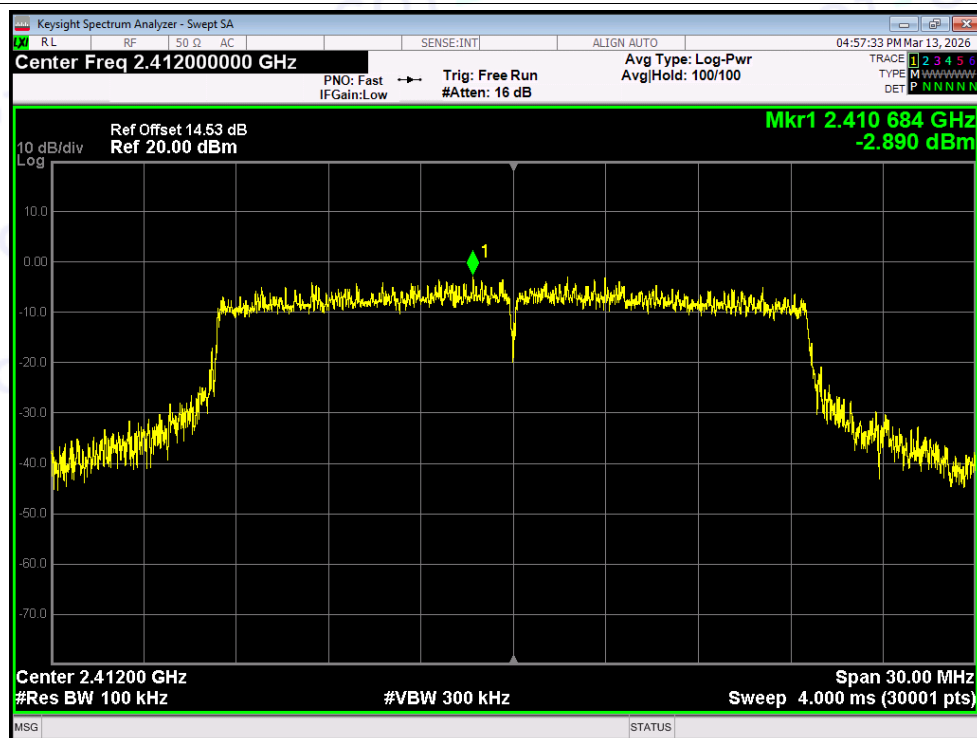


7. Conducted RF Spurious Emission

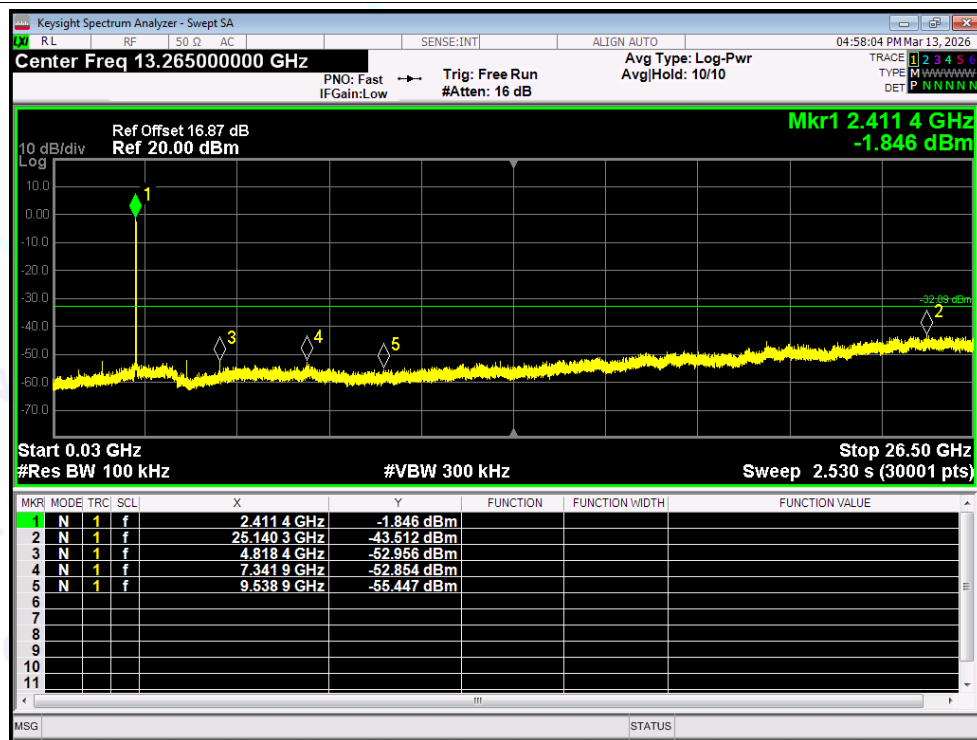
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(HE20)	2412	Ant1	-40.62	-30	Pass
NVNT	ax(HE20)	2437	Ant1	-40.92	-30	Pass
NVNT	ax(HE20)	2462	Ant1	-40.97	-30	Pass
NVNT	ax(HE40)	2422	Ant1	-34.82	-30	Pass
NVNT	ax(HE40)	2437	Ant1	-38.18	-30	Pass
NVNT	ax(HE40)	2452	Ant1	-37.66	-30	Pass
NVNT	b	2412	Ant1	-46.35	-30	Pass
NVNT	b	2437	Ant1	-47.34	-30	Pass
NVNT	b	2462	Ant1	-45.08	-30	Pass
NVNT	g	2412	Ant1	-33.44	-30	Pass
NVNT	g	2437	Ant1	-36.31	-30	Pass
NVNT	g	2462	Ant1	-35.74	-30	Pass
NVNT	n(HT20)	2412	Ant1	-31.73	-30	Pass
NVNT	n(HT20)	2437	Ant1	-43.36	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.36	-30	Pass
NVNT	n(HT40)	2422	Ant1	-37.64	-30	Pass
NVNT	n(HT40)	2437	Ant1	-38.66	-30	Pass
NVNT	n(HT40)	2452	Ant1	-35.89	-30	Pass

Test Graphs

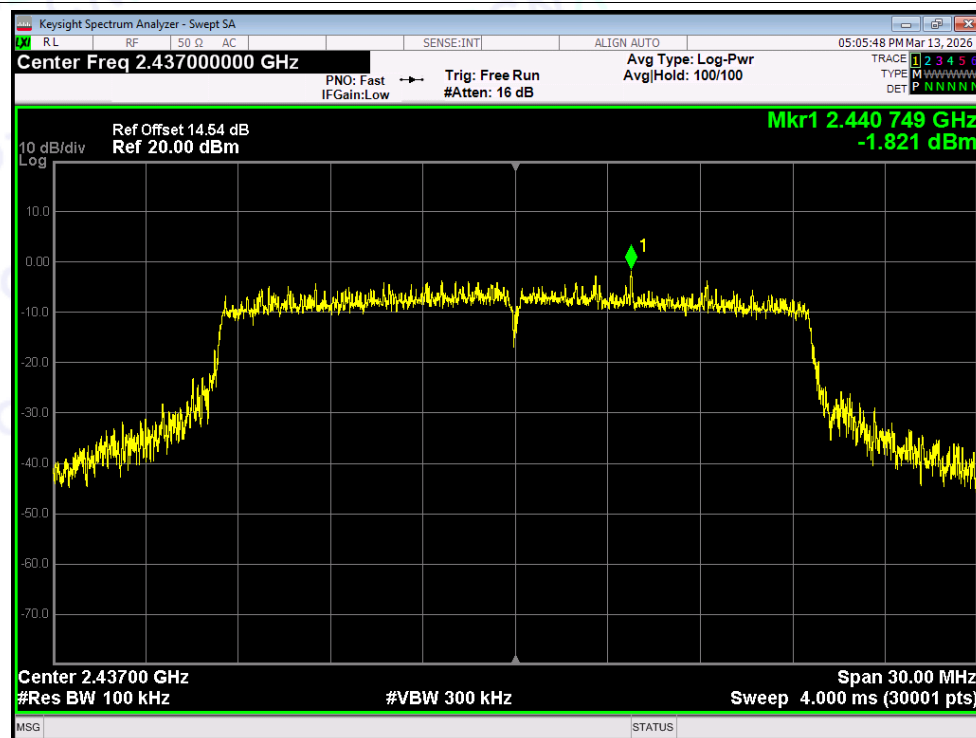
Tx. Spurious NVNT ax(HE20) 2412MHz Ant1 Ref



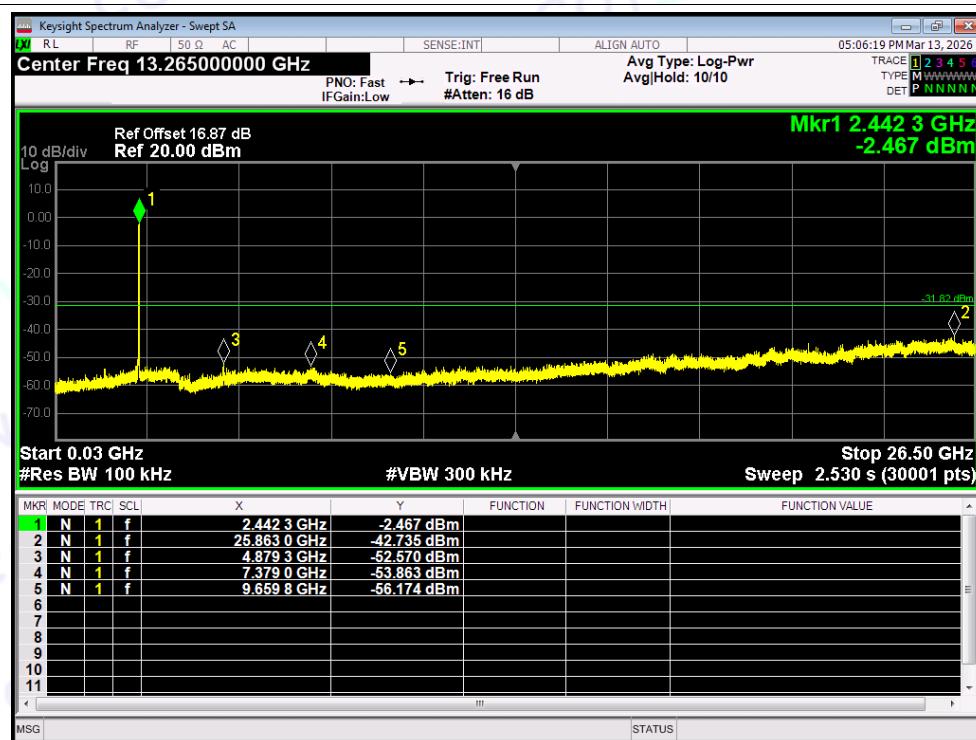
Tx. Spurious NVNT ax(HE20) 2412MHz Ant1 Emission



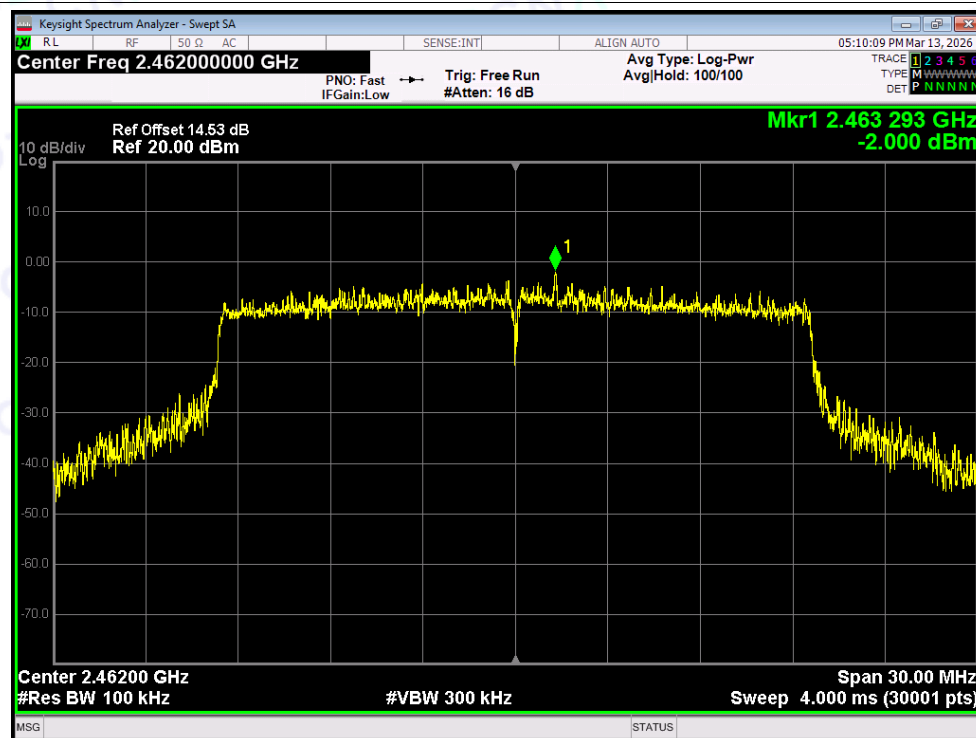
Tx. Spurious NVNT ax(HE20) 2437MHz Ant1 Ref



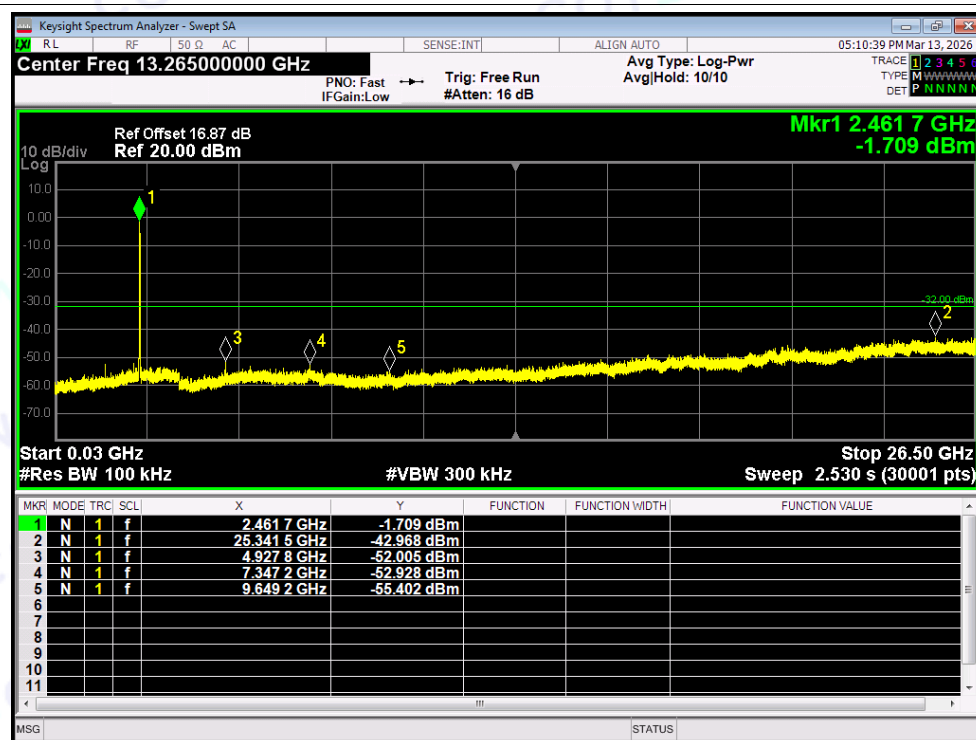
Tx. Spurious NVNT ax(HE20) 2437MHz Ant1 Emission



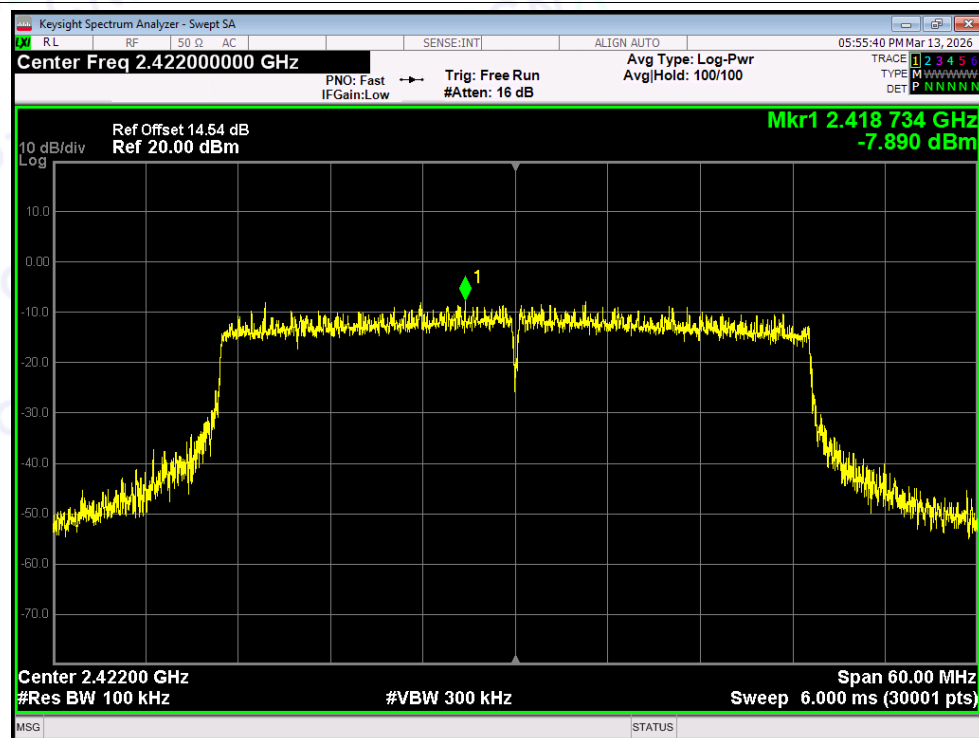
Tx. Spurious NVNT ax(HE20) 2462MHz Ant1 Ref



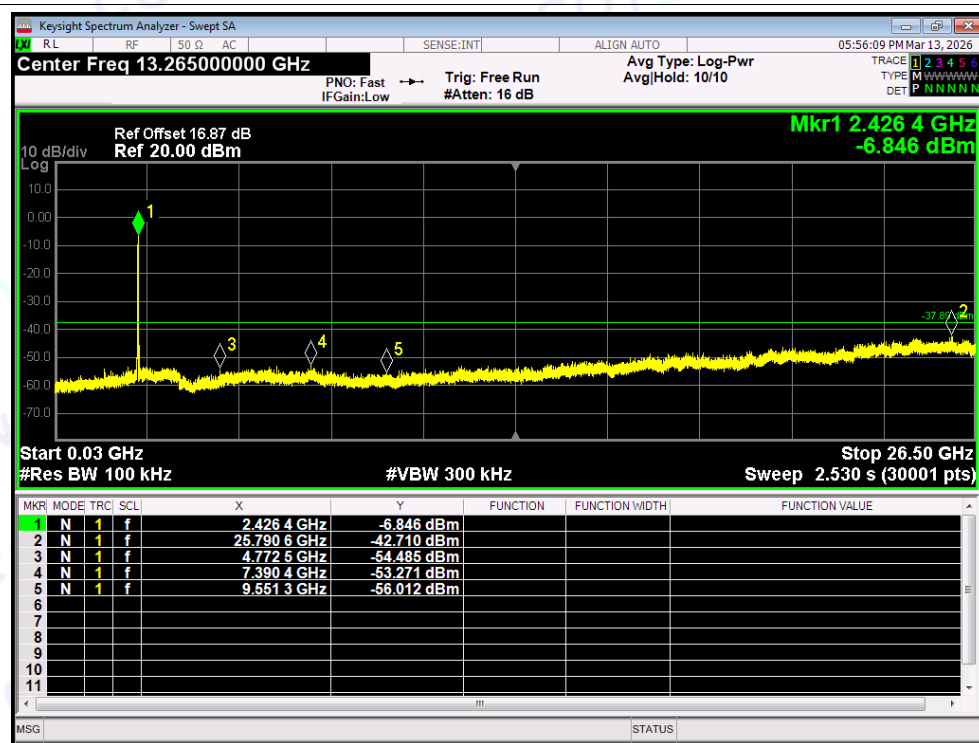
Tx. Spurious NVNT ax(HE20) 2462MHz Ant1 Emission



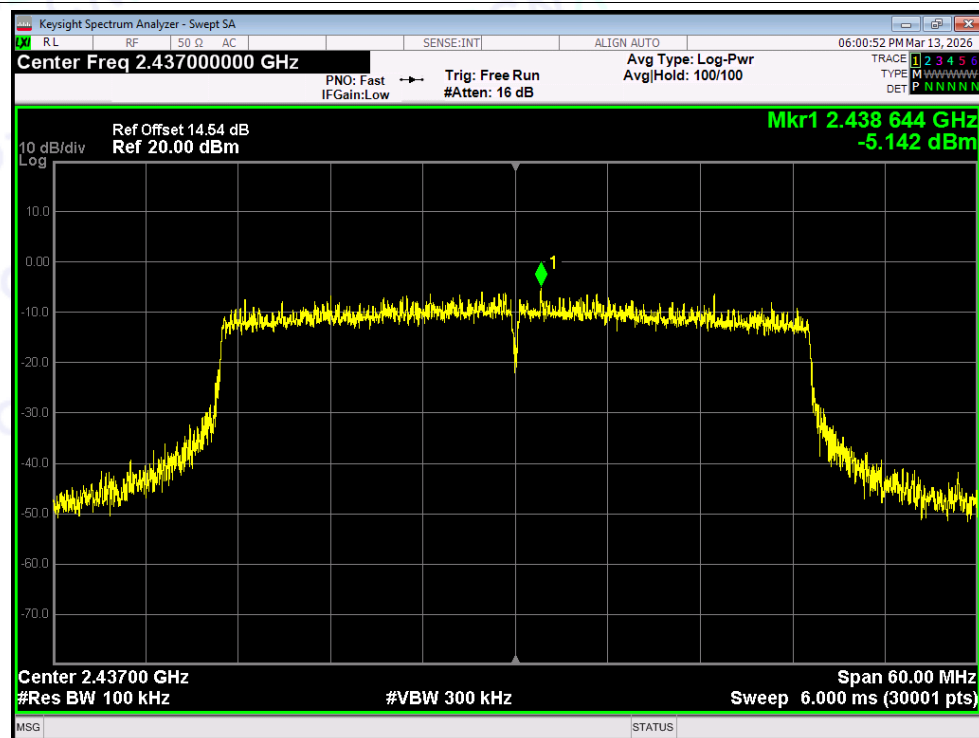
Tx. Spurious NVNT ax(HE40) 2422MHz Ant1 Ref



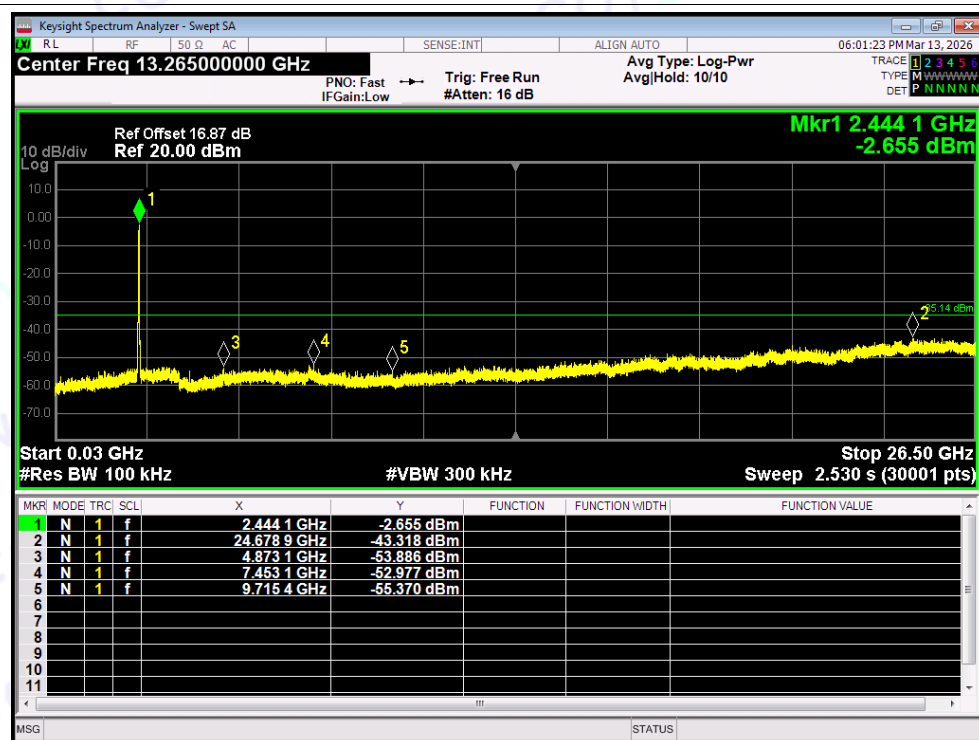
Tx. Spurious NVNT ax(HE40) 2422MHz Ant1 Emission



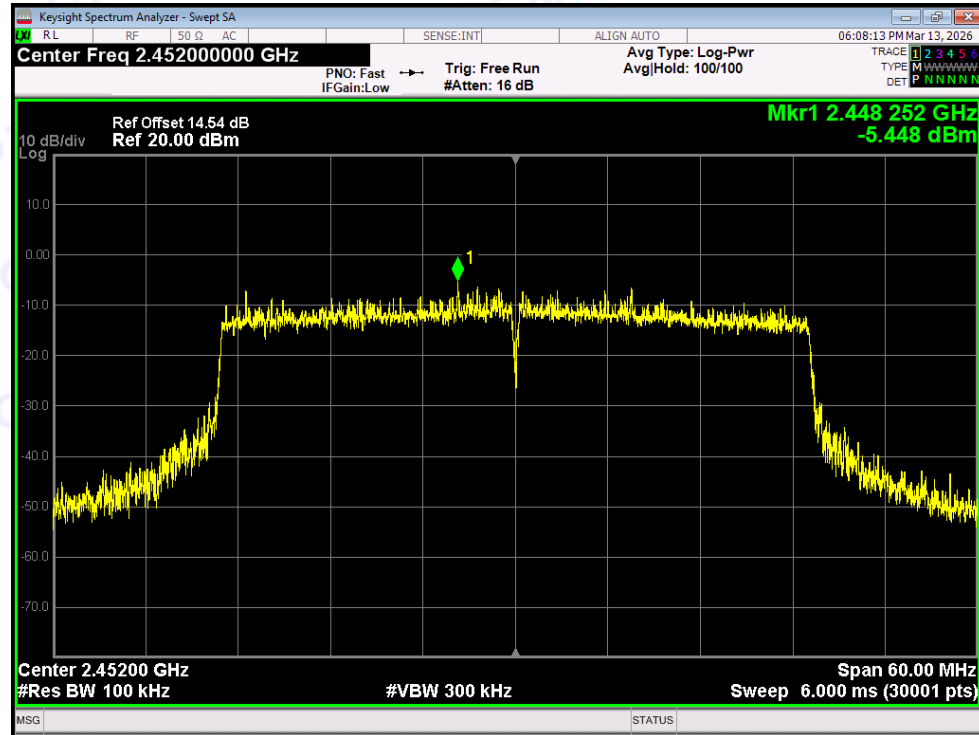
Tx. Spurious NVNT ax(HE40) 2437MHz Ant1 Ref



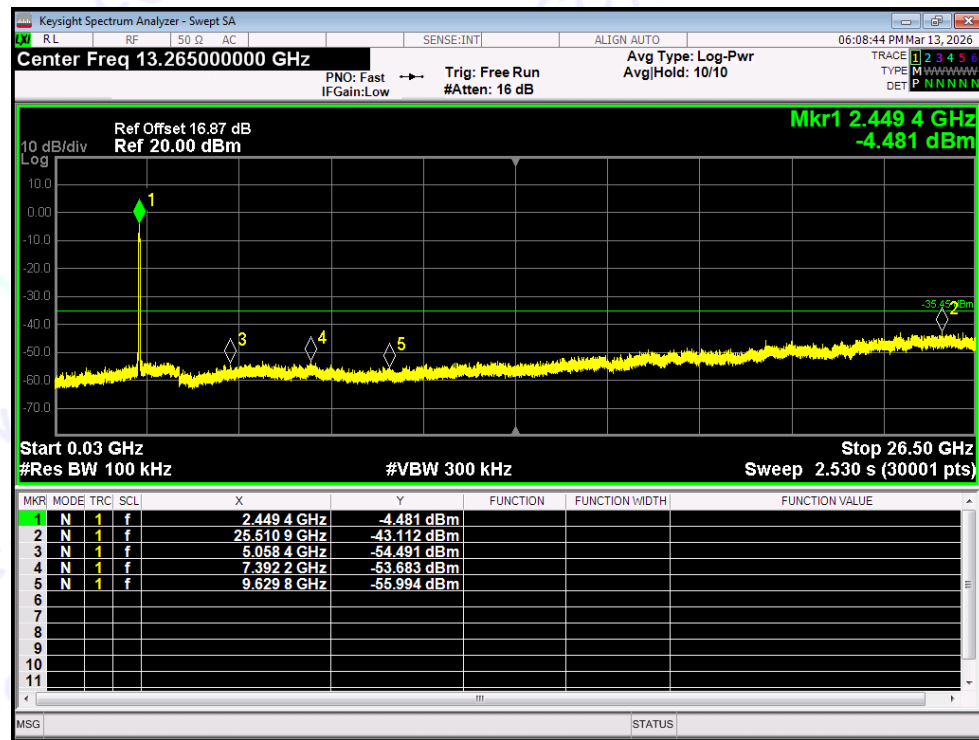
Tx. Spurious NVNT ax(HE40) 2437MHz Ant1 Emission



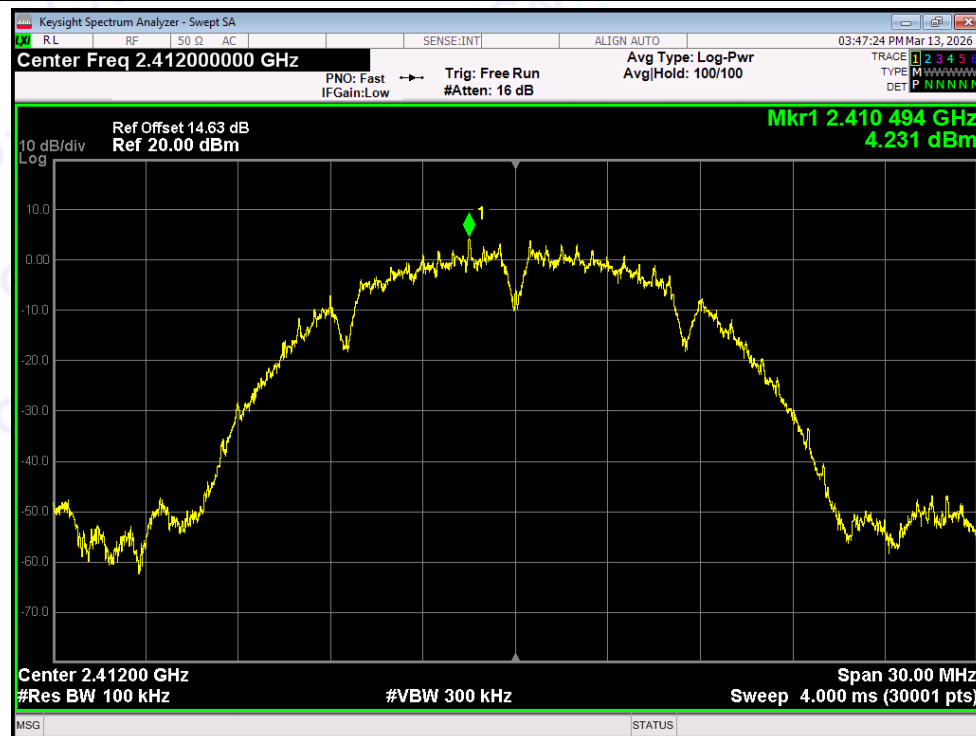
Tx. Spurious NVNT ax(HE40) 2452MHz Ant1 Ref



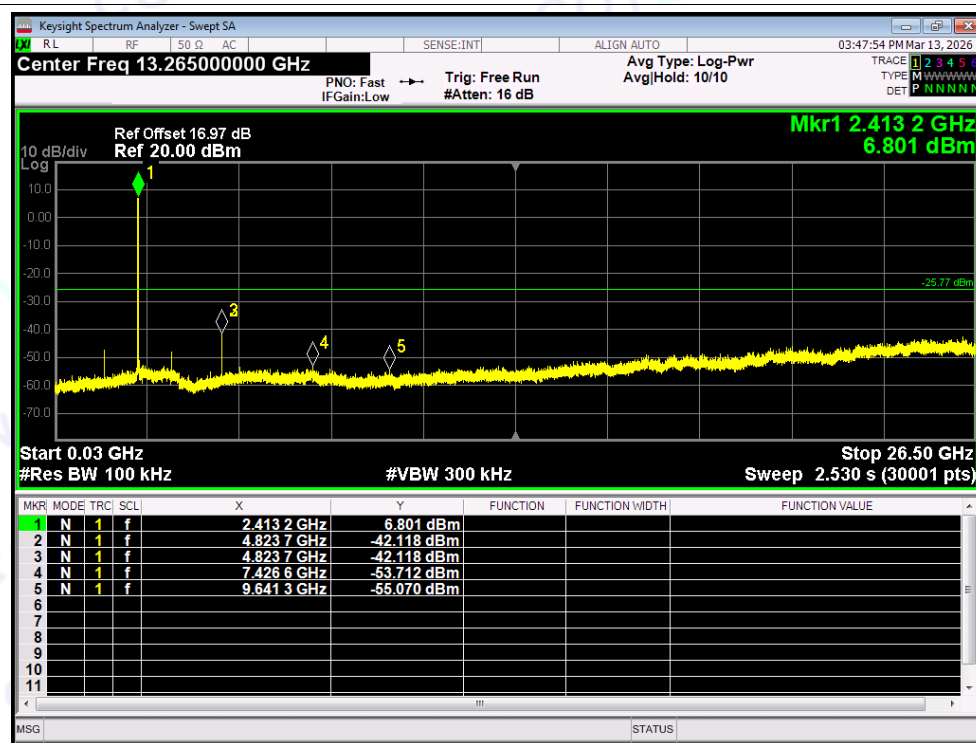
Tx. Spurious NVNT ax(HE40) 2452MHz Ant1 Emission



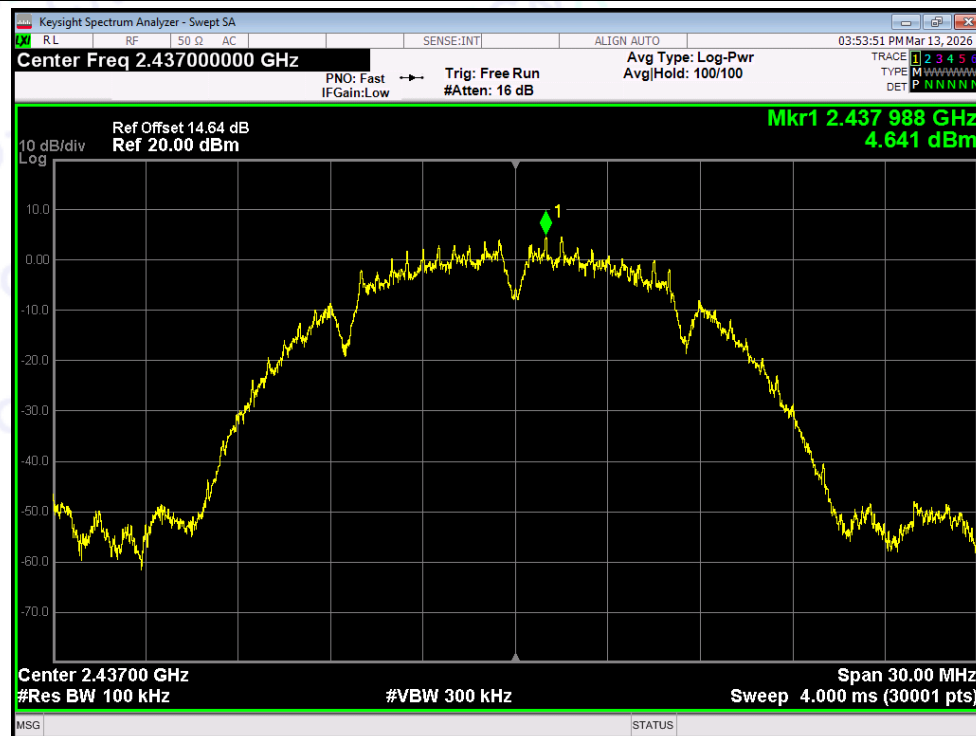
Tx. Spurious NVNT b 2412MHz Ant1 Ref



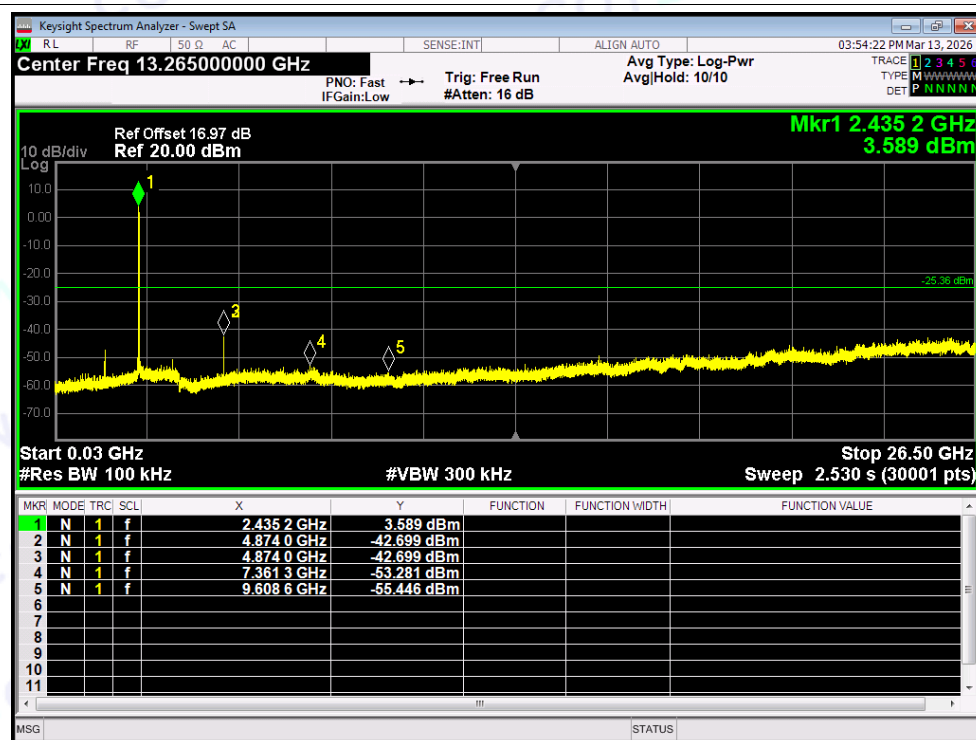
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



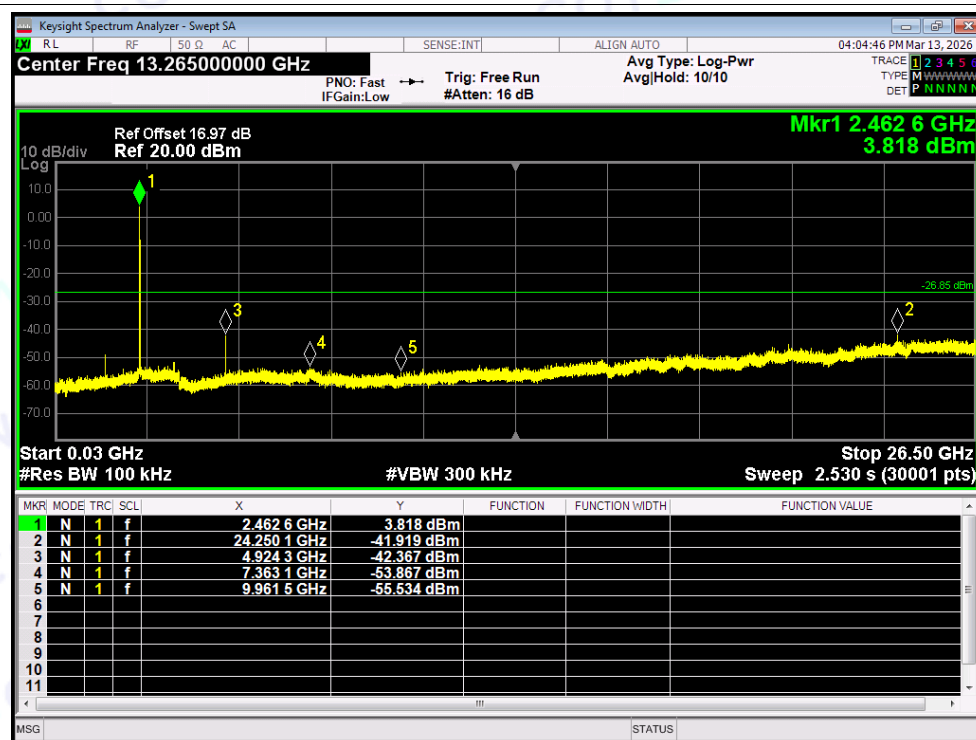
Tx. Spurious NVNT b 2437MHz Ant1 Emission



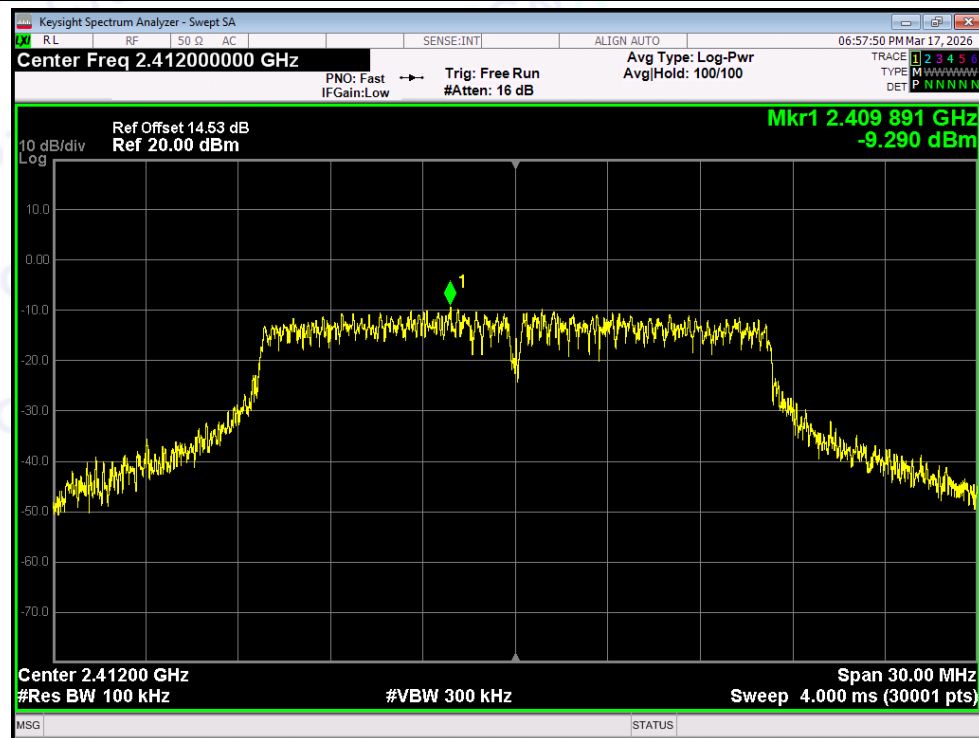
Tx. Spurious NVNT b 2462MHz Ant1 Ref



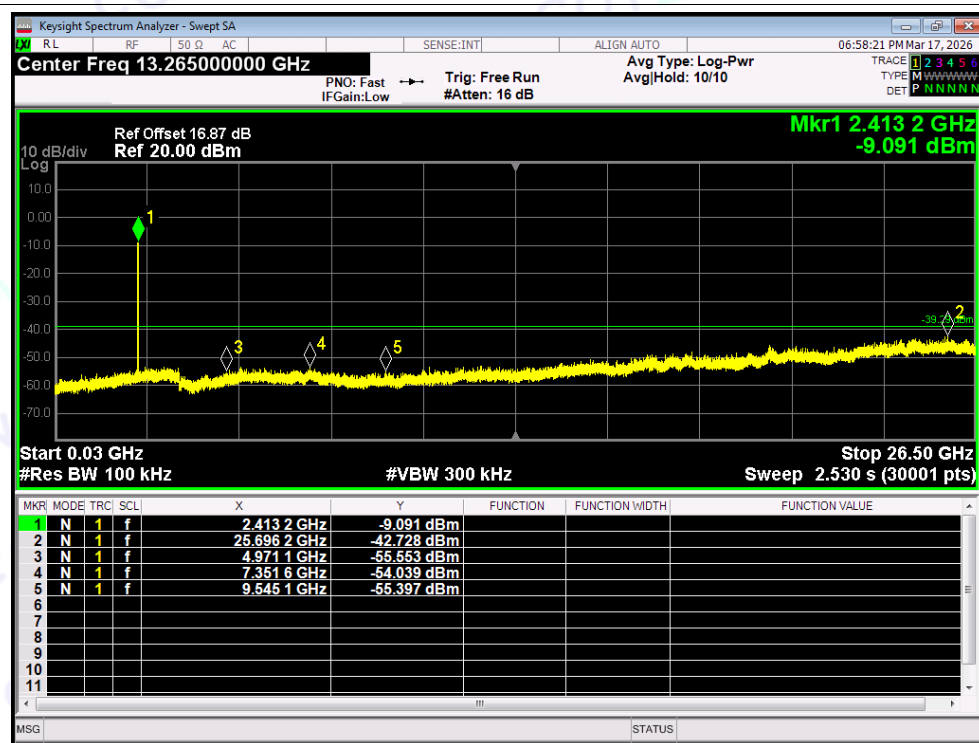
Tx. Spurious NVNT b 2462MHz Ant1 Emission



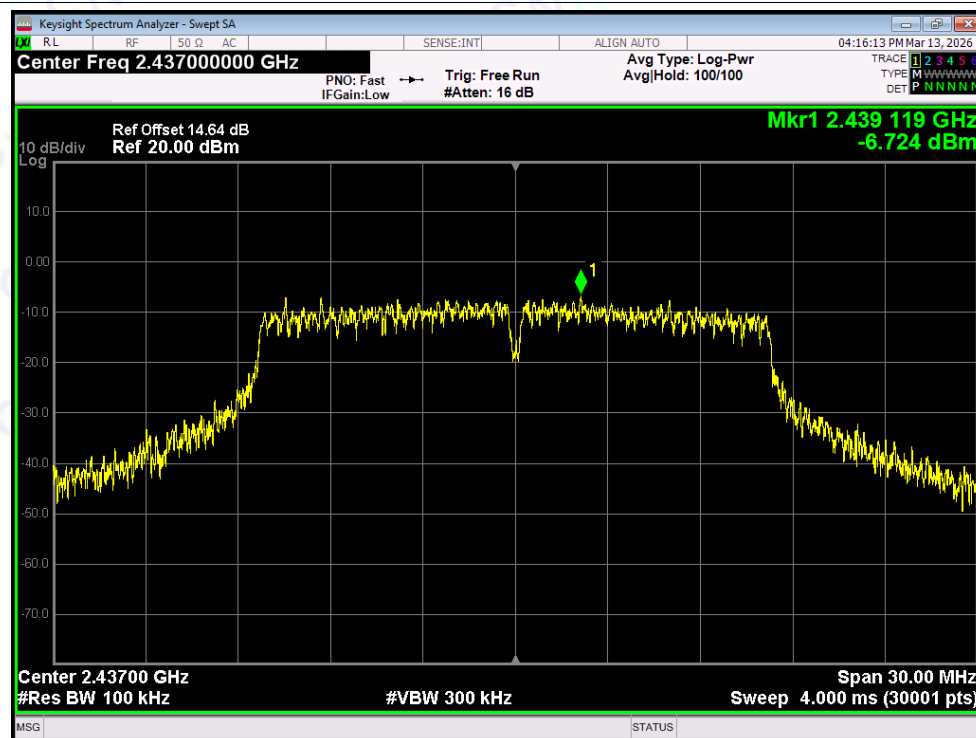
Tx. Spurious NVNT g 2412MHz Ant1 Ref



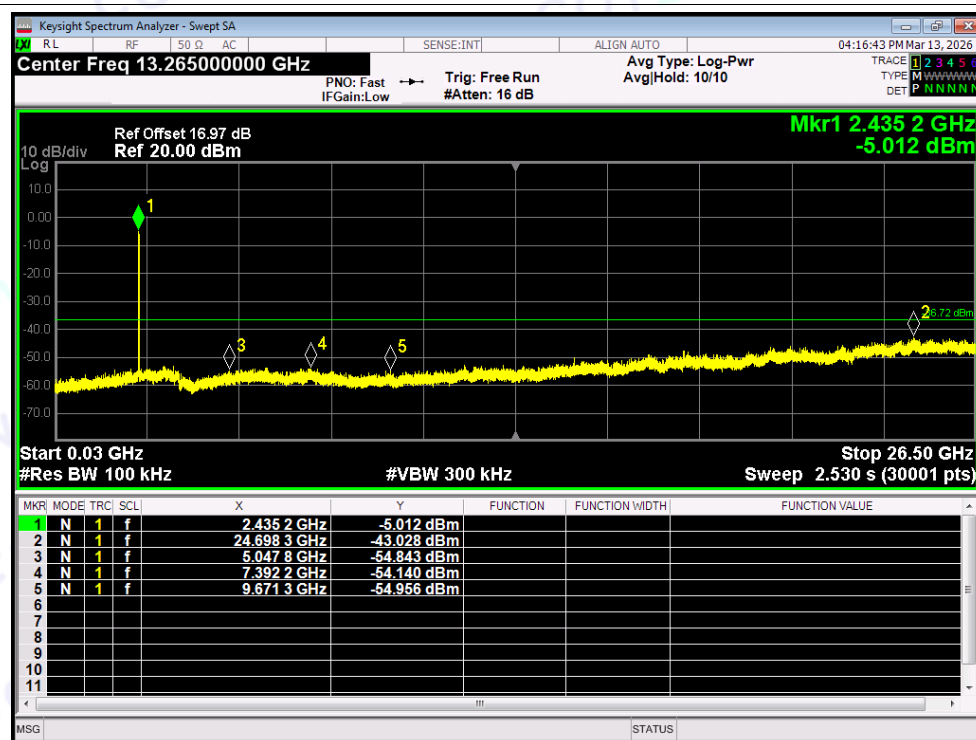
Tx. Spurious NVNT g 2412MHz Ant1 Emission



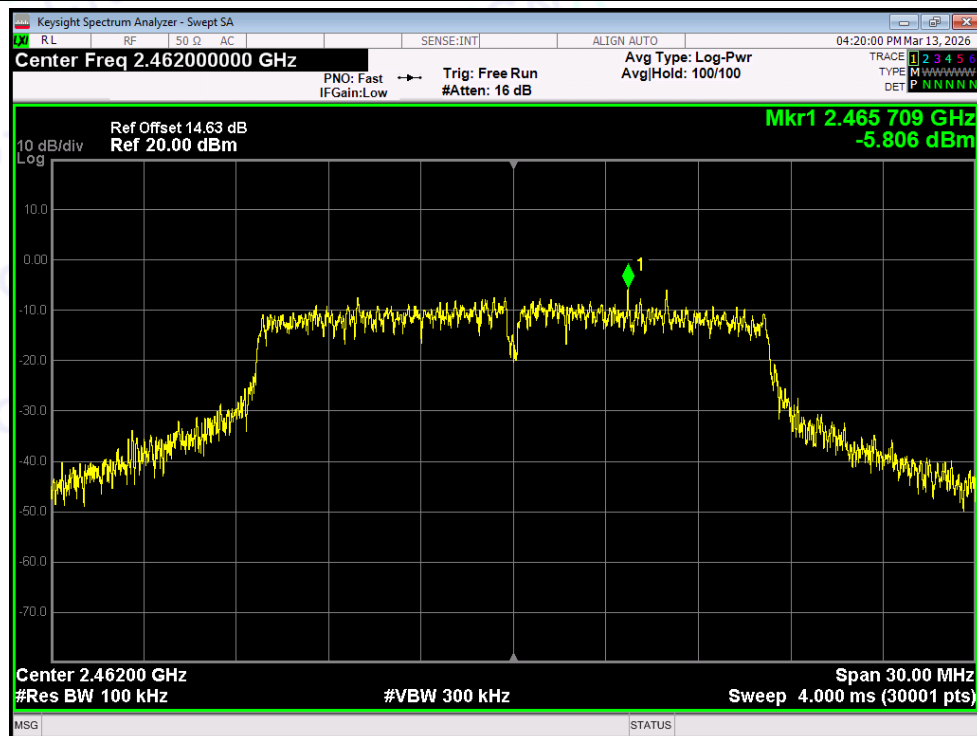
Tx. Spurious NVNT g 2437MHz Ant1 Ref



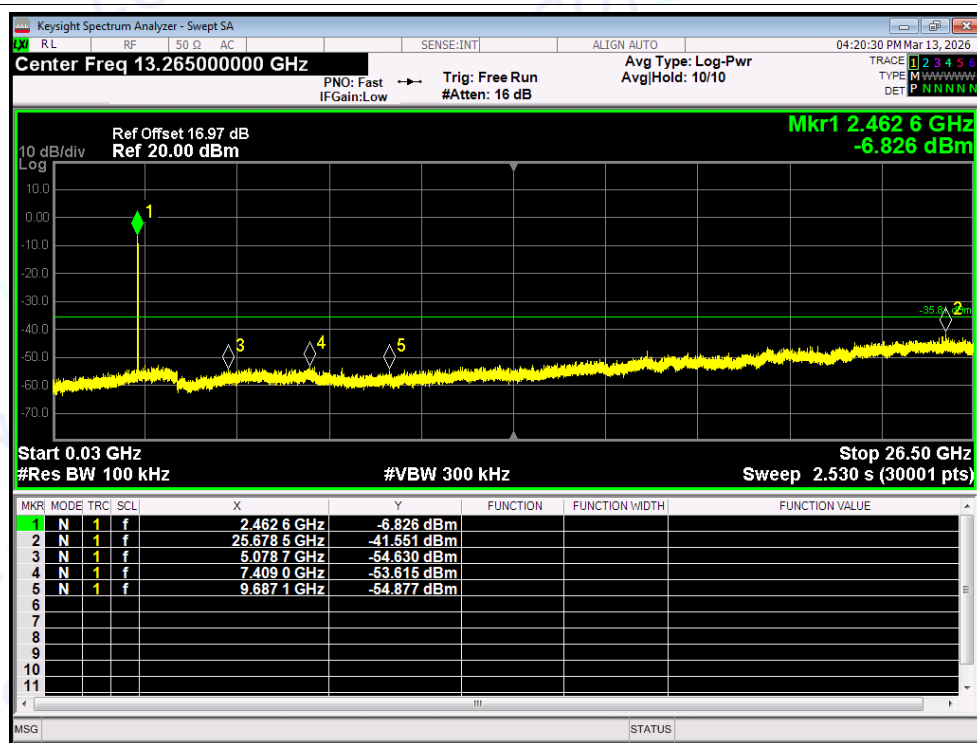
Tx. Spurious NVNT g 2437MHz Ant1 Emission



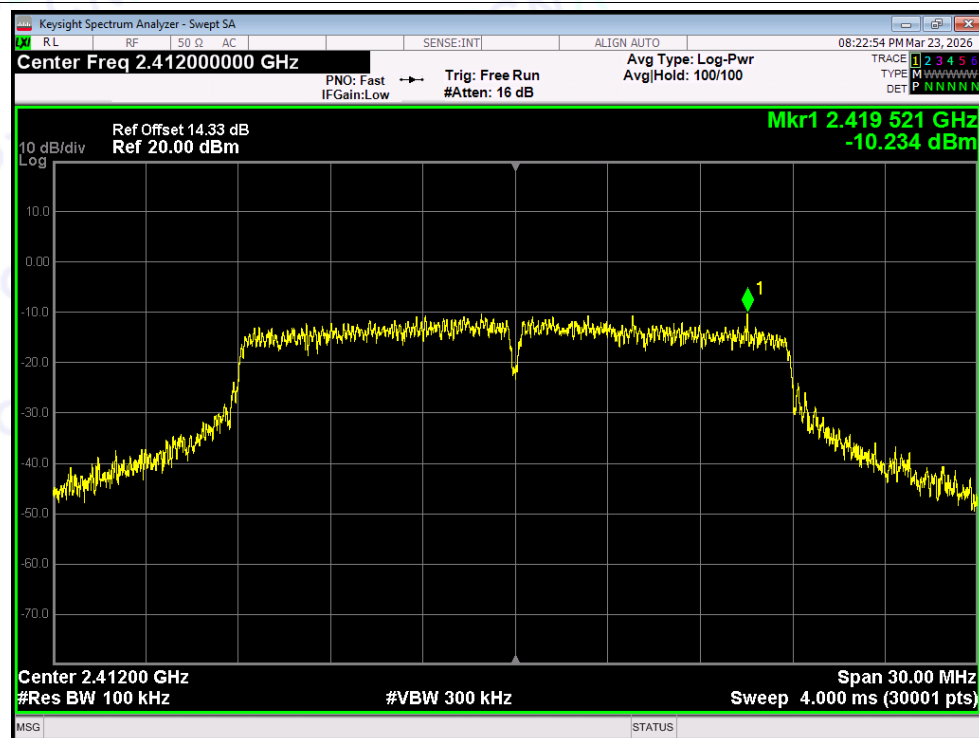
Tx. Spurious NVNT g 2462MHz Ant1 Ref



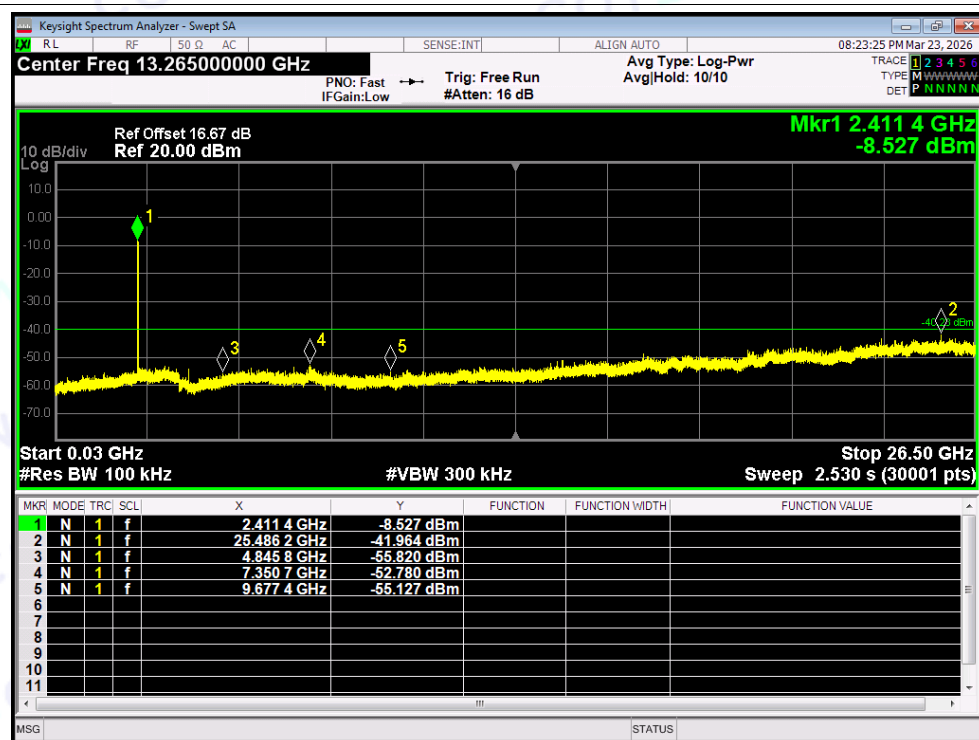
Tx. Spurious NVNT g 2462MHz Ant1 Emission



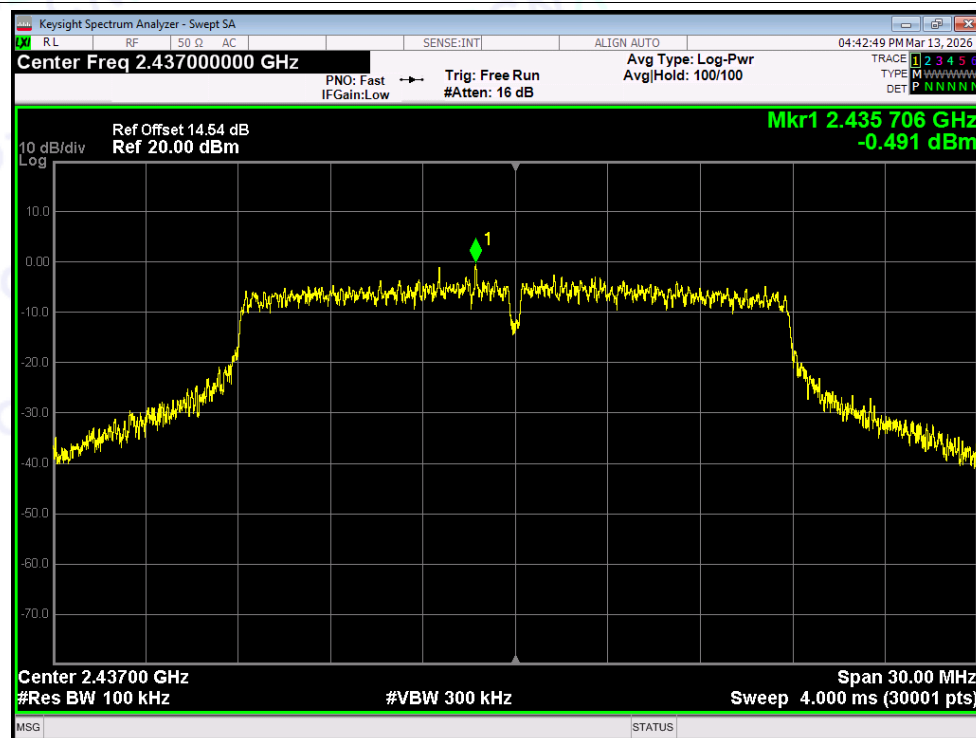
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



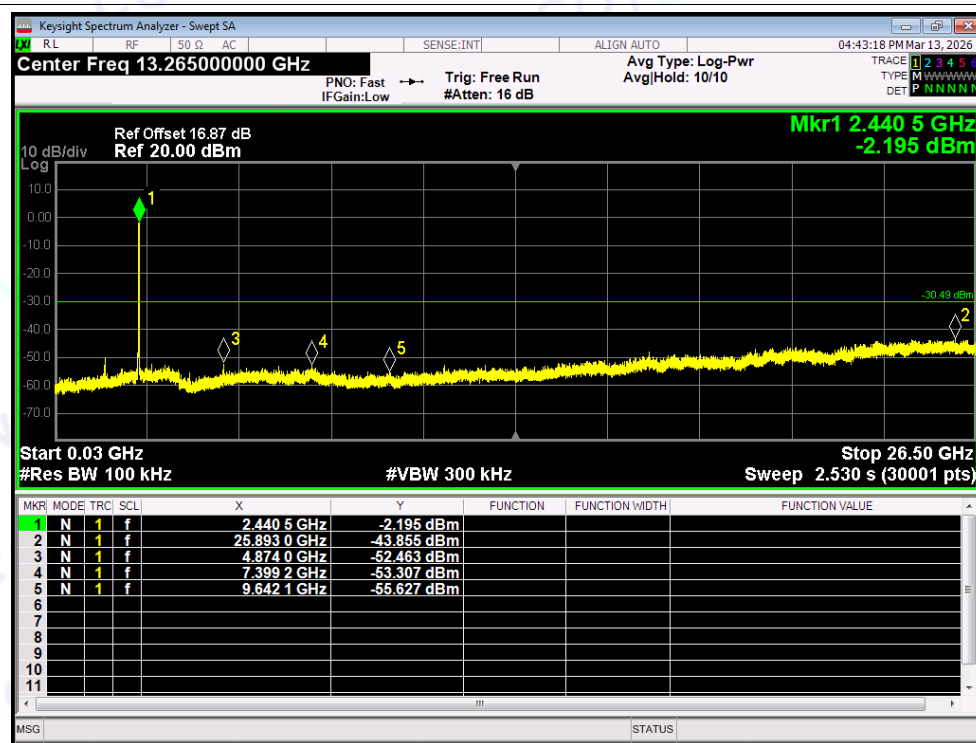
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Emission



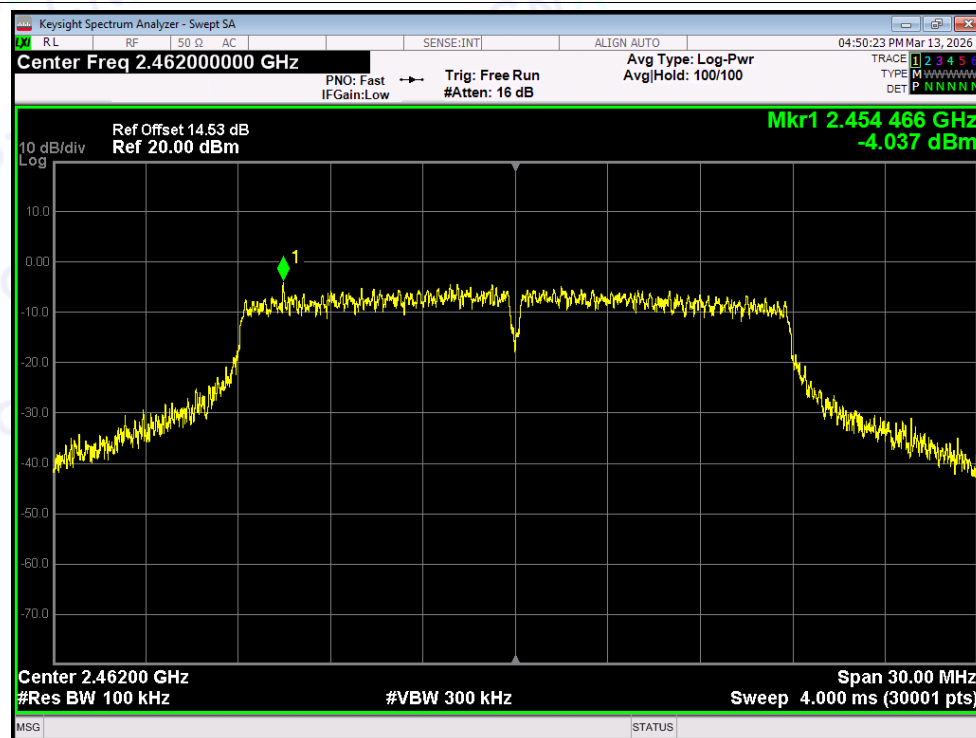
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Ref



Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Ref



Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission

