

# RF Test Data for 2.4G WiFi (Conducted Measurements)

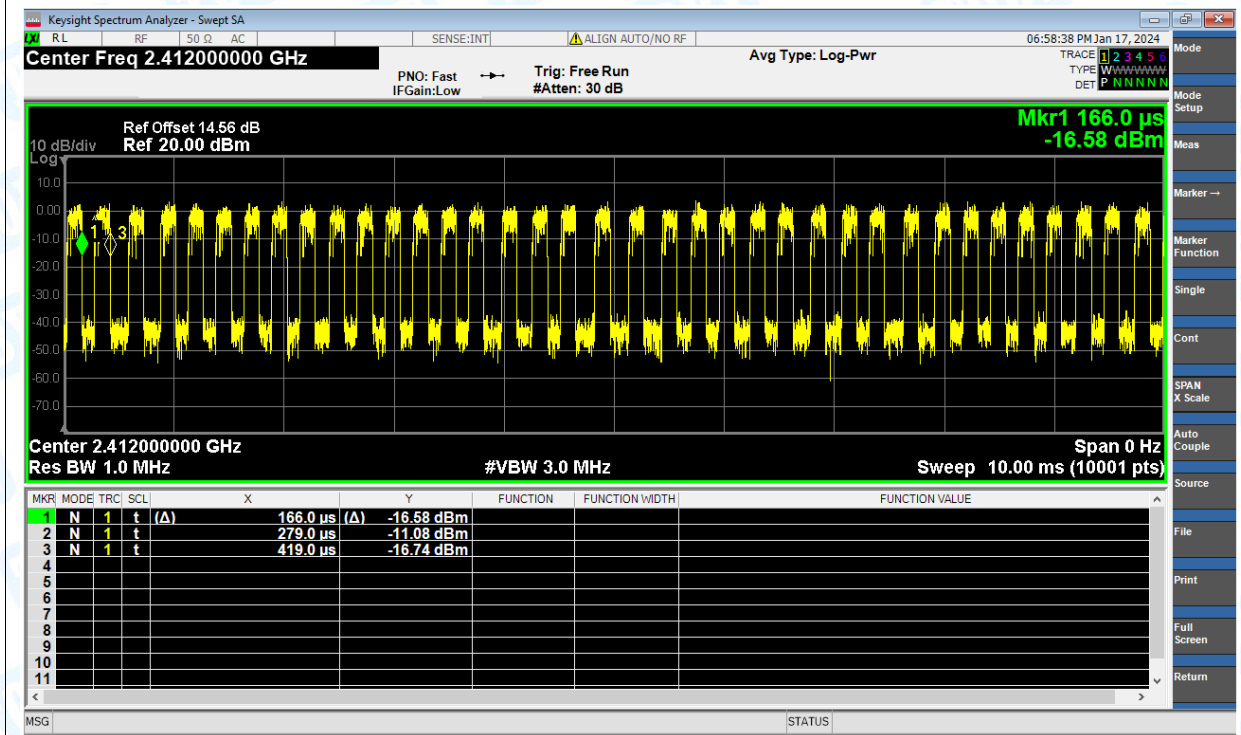
General Description of EUT	
<b>Product Name:</b>	Tablet
<b>Test Model:</b>	ZB10
<b>Sample ID:</b>	202312-0324-11-2#
Environmental Conditions	
<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	50%
<b>Test Voltage:</b>	DC 3.8V
<b>Test Engineer:</b>	yanzhenming
Note: For a more detailed features description, please refer to the report TBR-C-202312-0324-36 The report only show the worst case data.	

## Duty Cycle

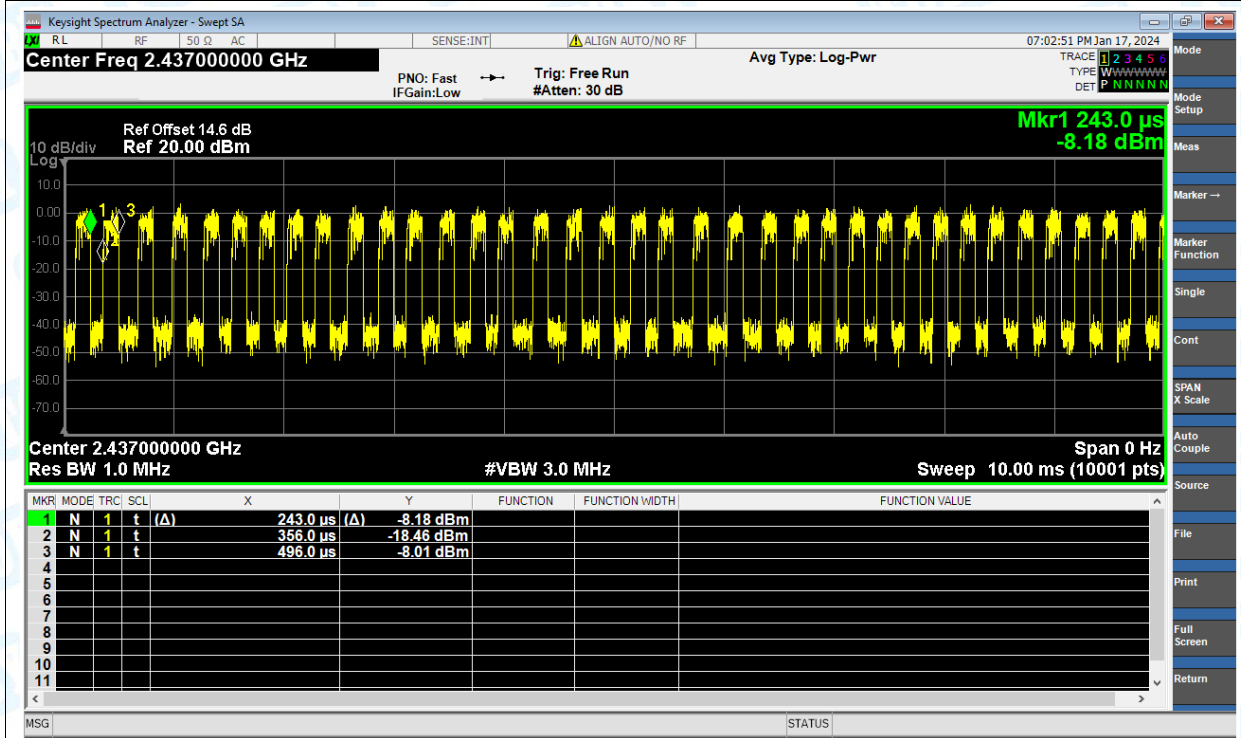
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	55.34	2.57	7.14
NVNT	ax(VHT20)	2437	Ant1	55.34	2.57	7.14
NVNT	ax(VHT20)	2462	Ant1	53.44	2.72	7.14
NVNT	ax(VHT40)	2422	Ant1	46.7	3.31	10.1
NVNT	ax(VHT40)	2437	Ant1	47.17	3.26	10
NVNT	ax(VHT40)	2452	Ant1	46.7	3.31	10.1
NVNT	b	2412	Ant1	98.79	0.05	0.08
NVNT	b	2437	Ant1	99.19	0.04	0.08
NVNT	b	2462	Ant1	99.35	0.03	0.08
NVNT	g	2412	Ant1	92.27	0.35	0.49
NVNT	g	2437	Ant1	93.12	0.31	0.49
NVNT	g	2462	Ant1	94.86	0.23	0.49
NVNT	n(HT20)	2412	Ant1	60.05	2.21	4.46
NVNT	n(HT20)	2437	Ant1	58.75	2.31	4.44
NVNT	n(HT20)	2462	Ant1	60.16	2.21	4.44
NVNT	n(HT40)	2422	Ant1	52.89	2.77	7.81
NVNT	n(HT40)	2437	Ant1	53.31	2.73	7.75
NVNT	n(HT40)	2452	Ant1	49.62	3.04	7.75

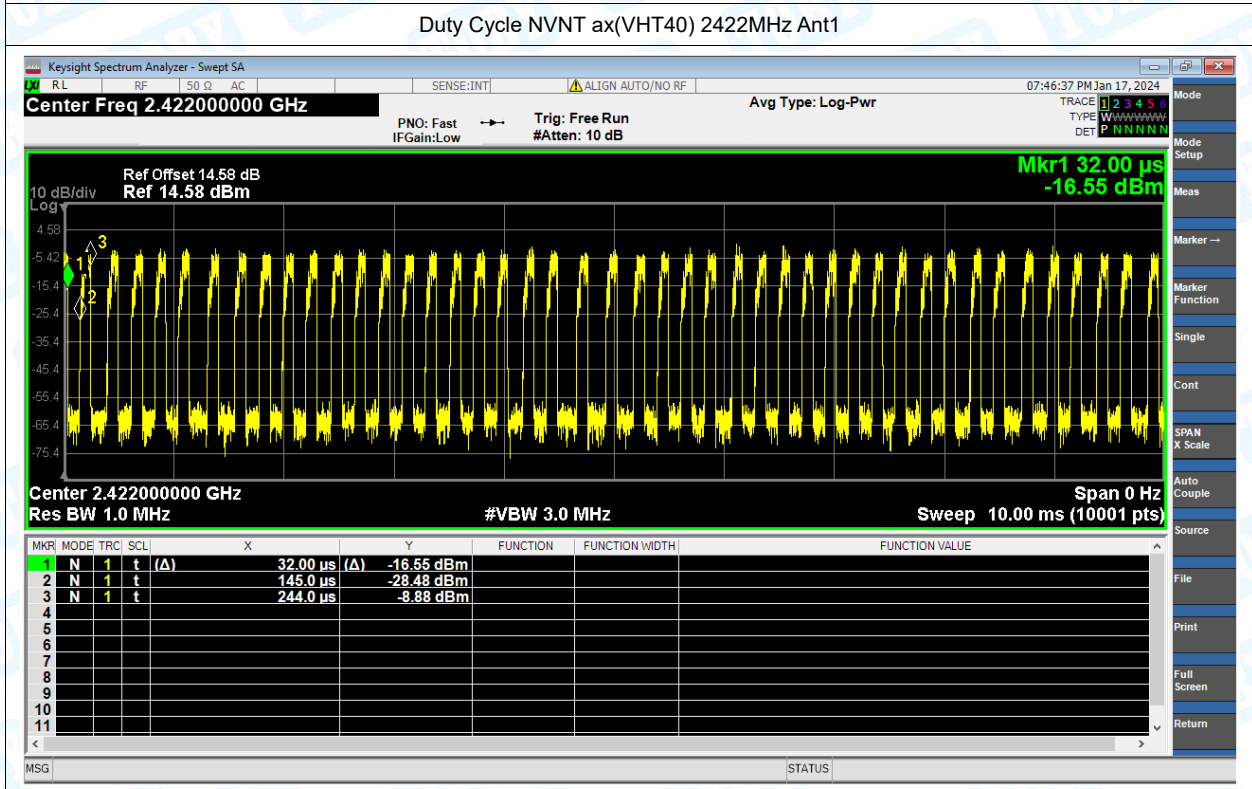
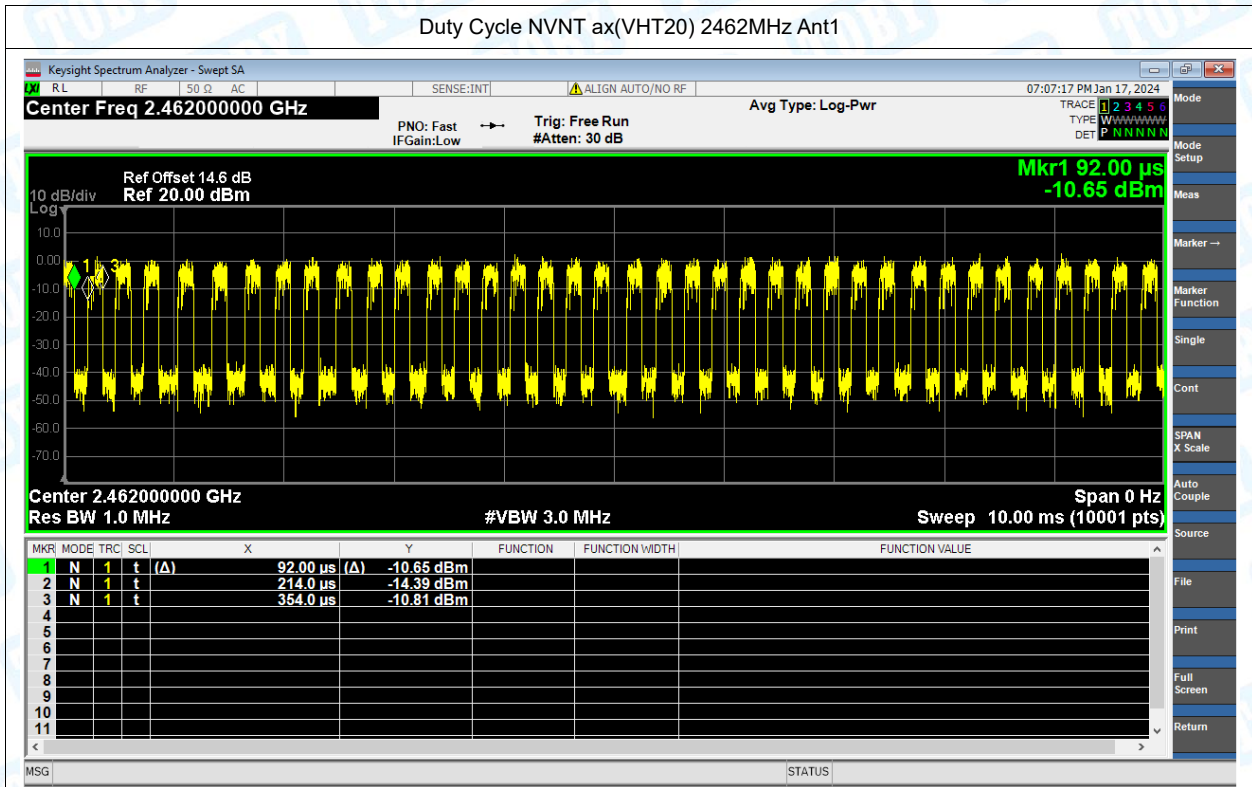
Test Graphs

Duty Cycle NVNT ax(VHT20) 2412MHz Ant1

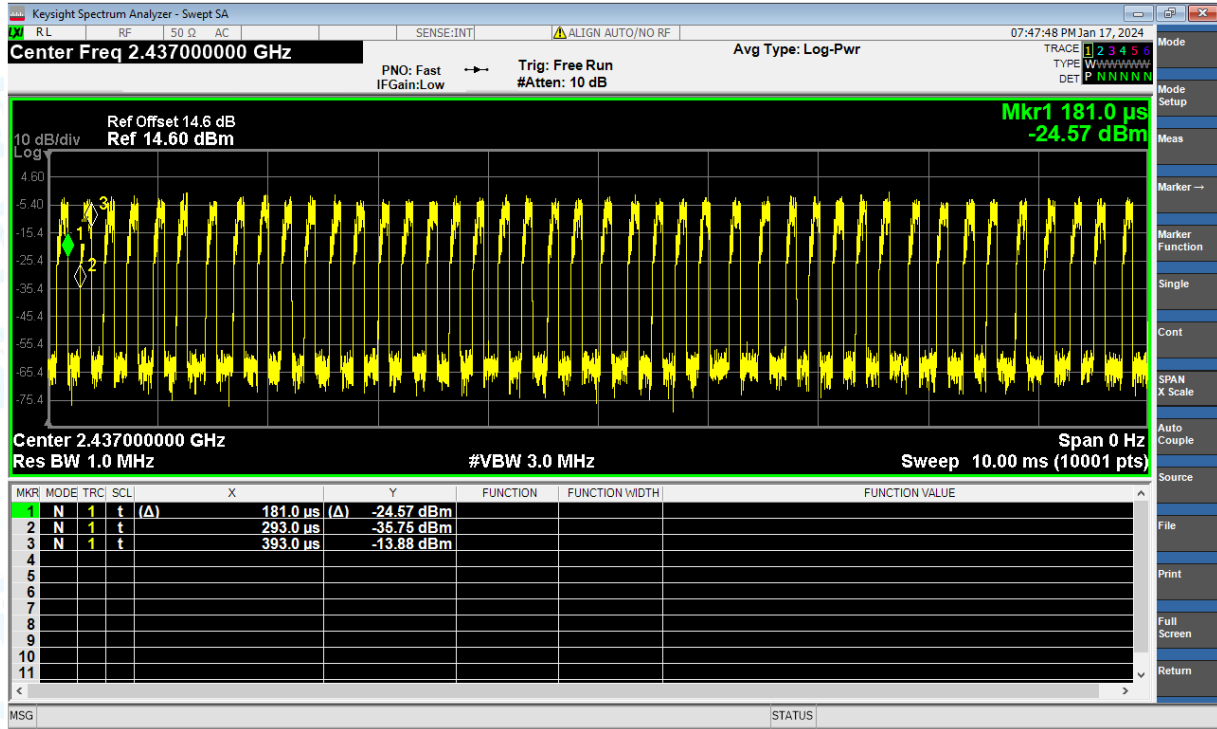


Duty Cycle NVNT ax(VHT20) 2437MHz Ant1

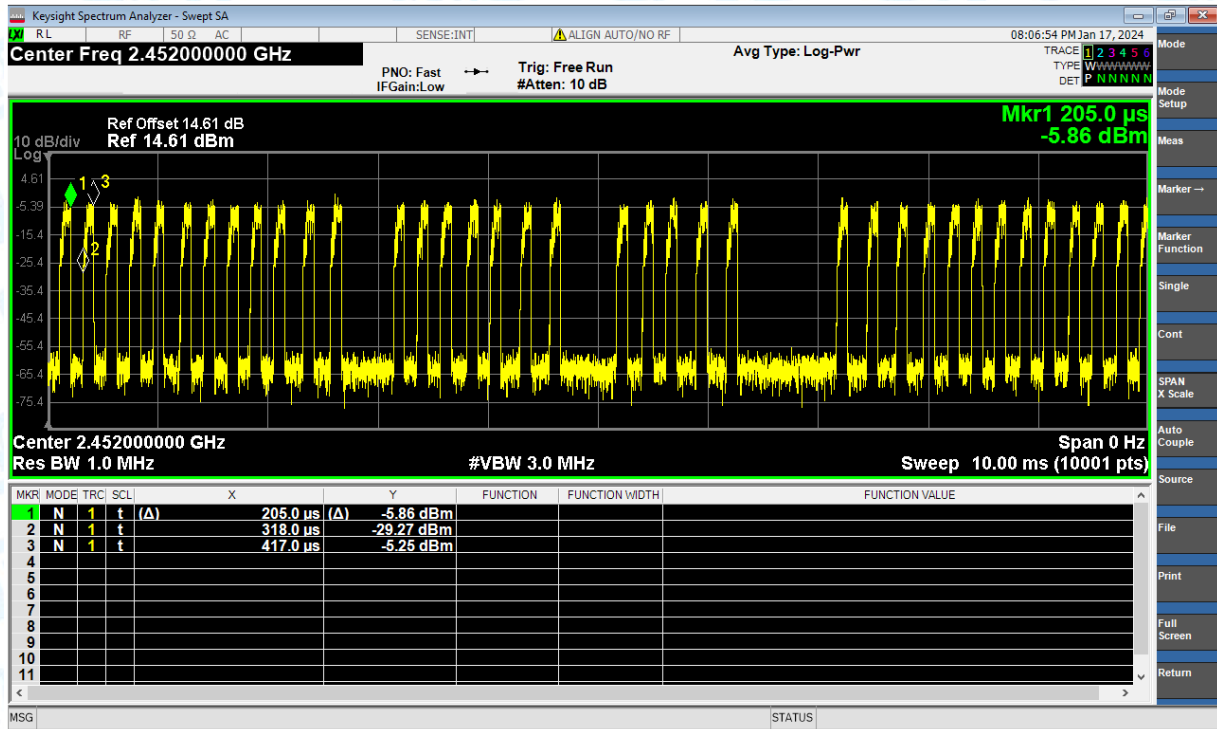




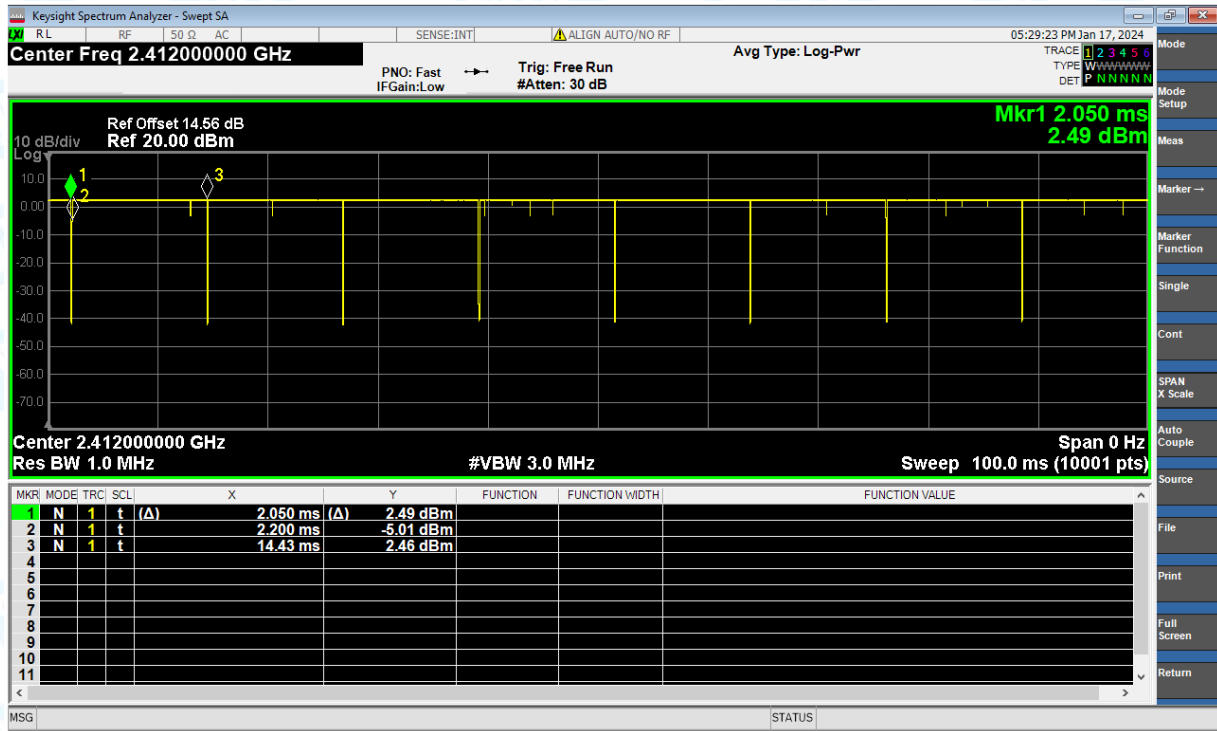
Duty Cycle NVNT ax(VHT40) 2437MHz Ant1



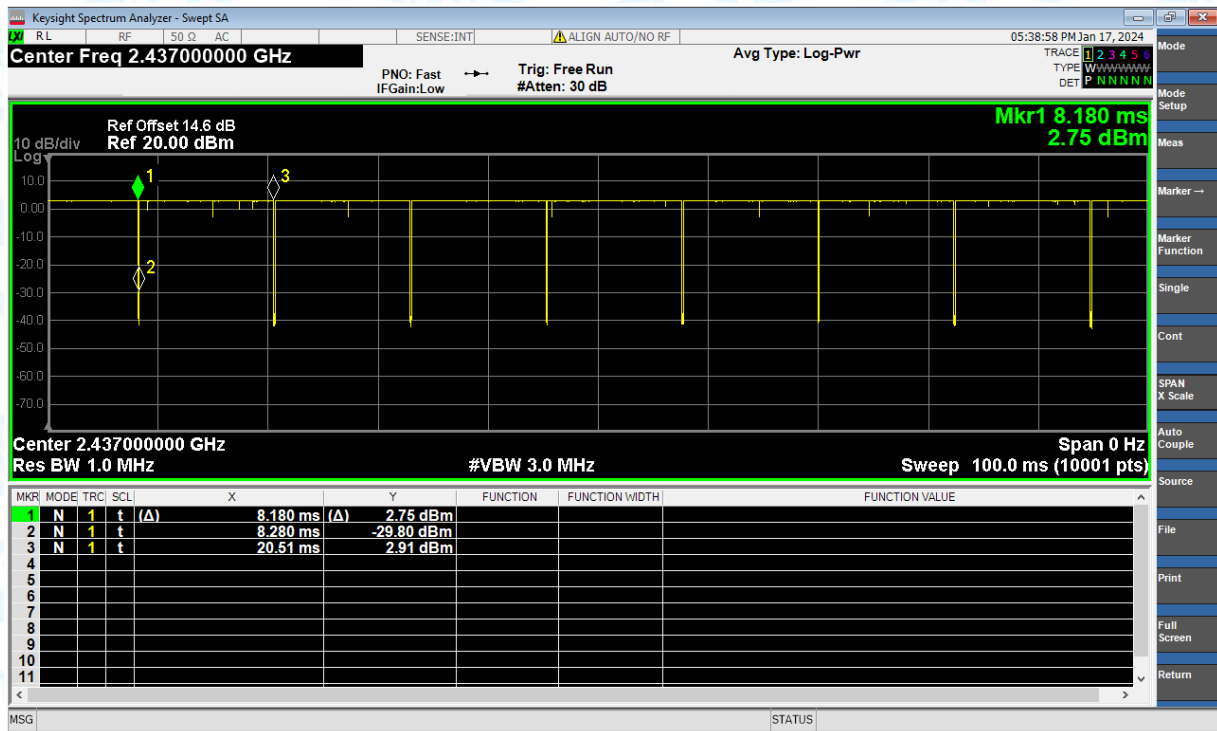
Duty Cycle NVNT ax(VHT40) 2452MHz Ant1



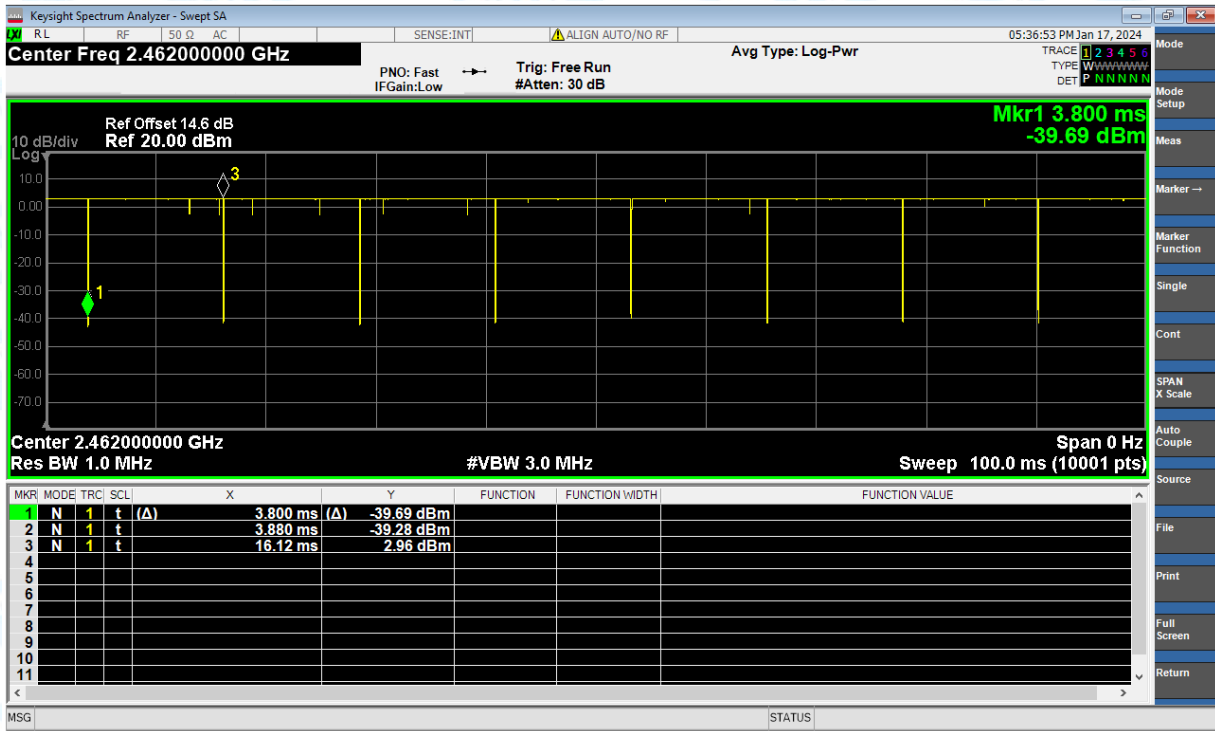
Duty Cycle NVNT b 2412MHz Ant1



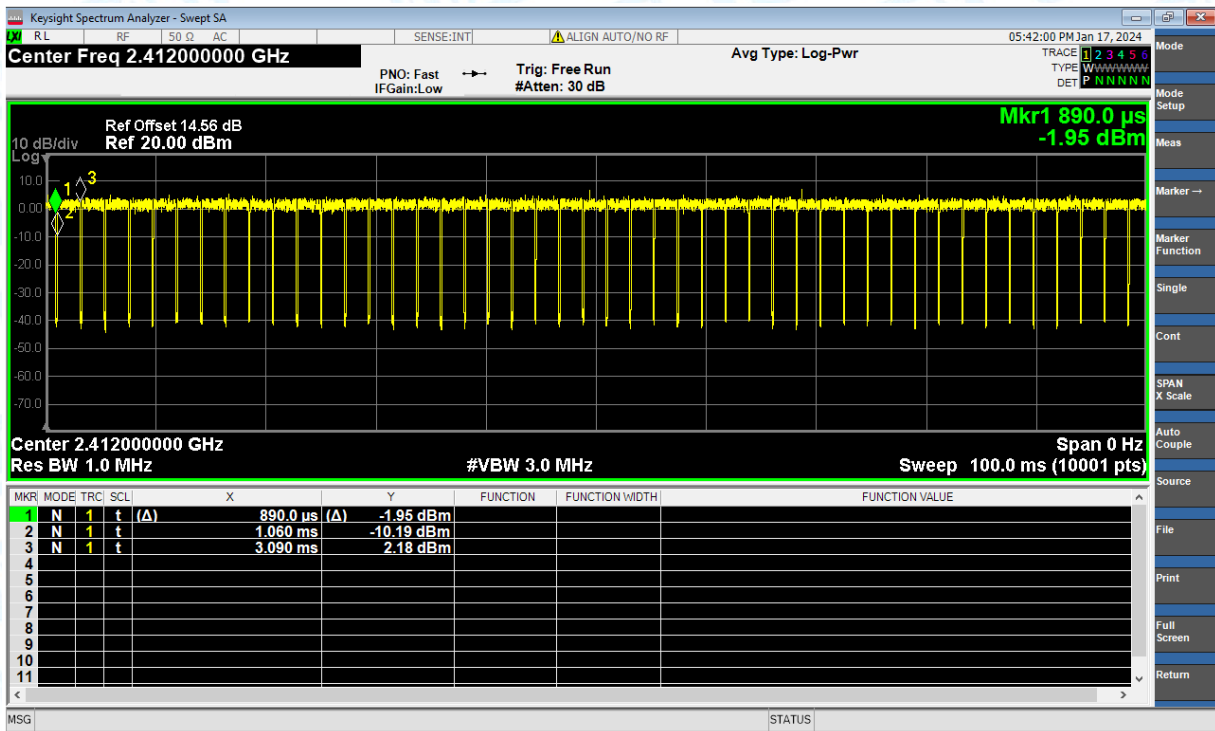
Duty Cycle NVNT b 2437MHz Ant1



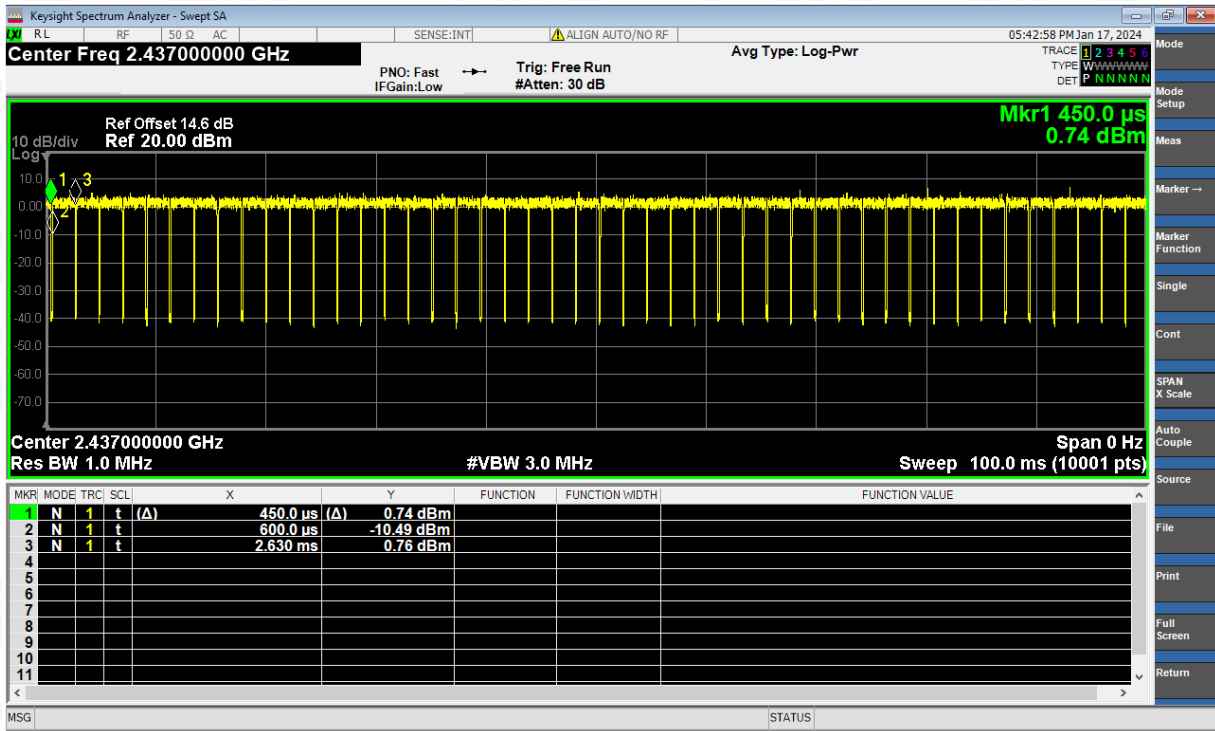
Duty Cycle NVNT b 2462MHz Ant1



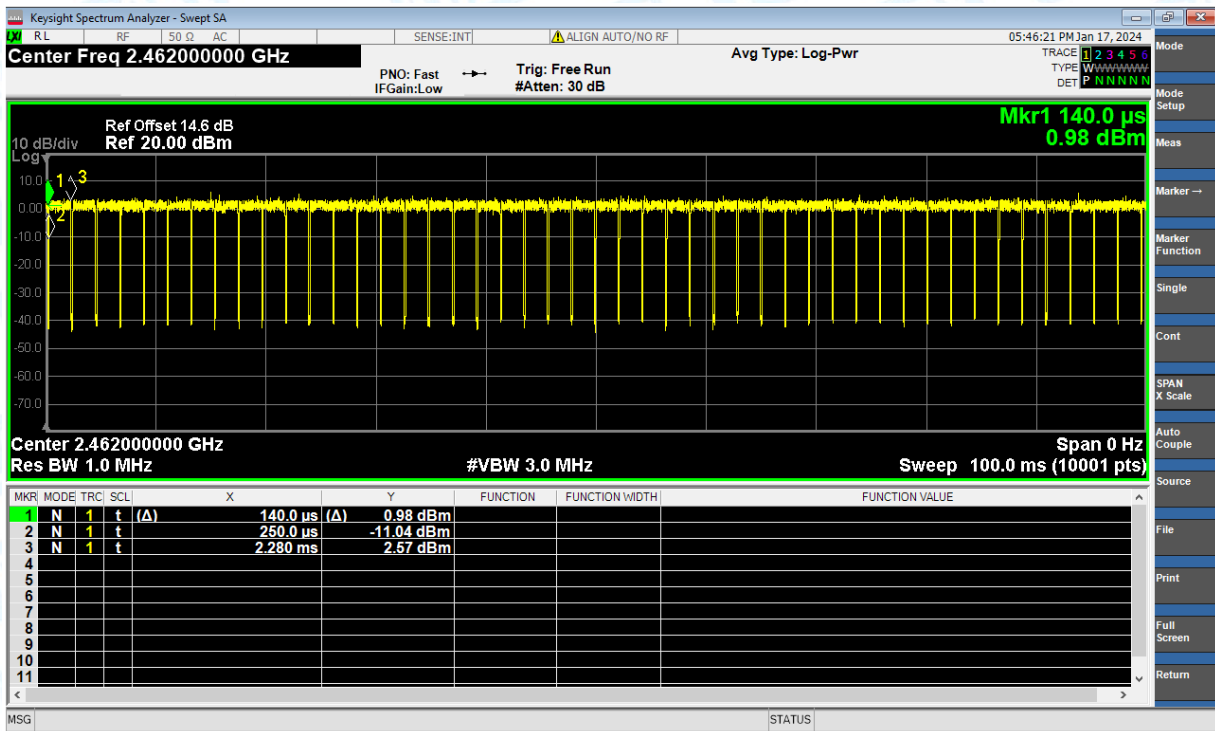
Duty Cycle NVNT g 2412MHz Ant1



Duty Cycle NVNT g 2437MHz Ant1

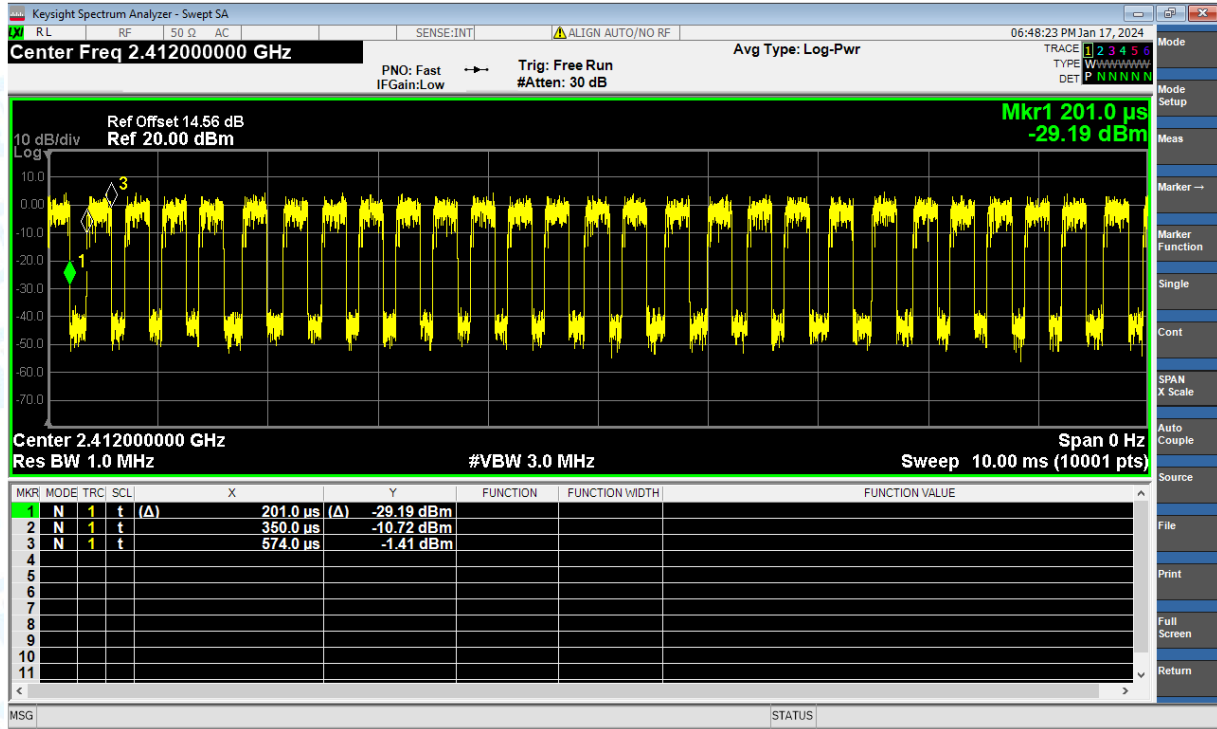


Duty Cycle NVNT g 2462MHz Ant1

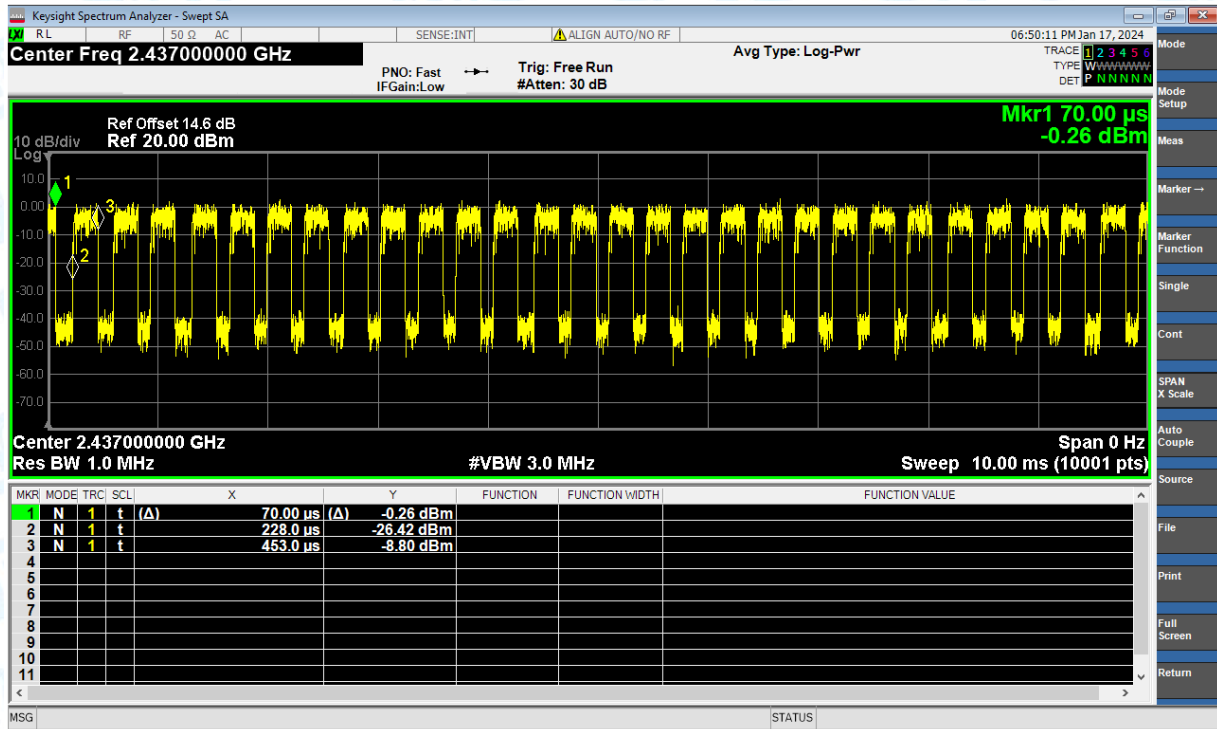




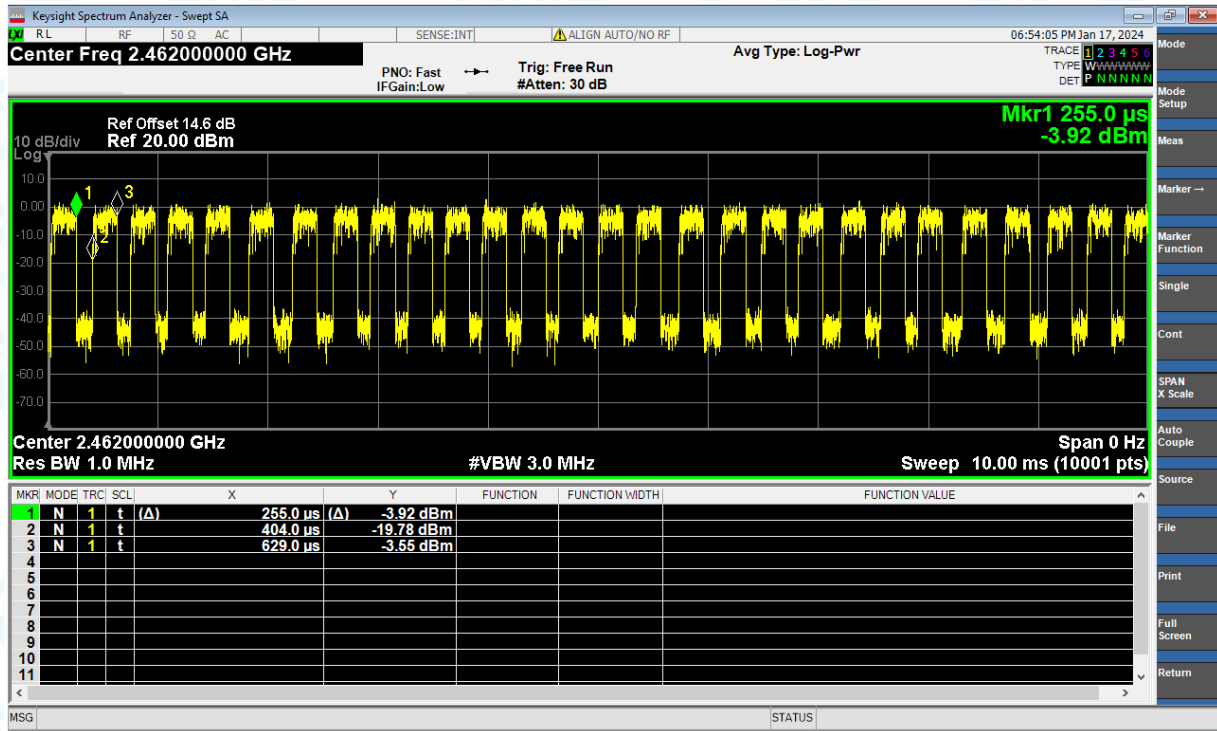
Duty Cycle NVNT n(HT20) 2412MHz Ant1



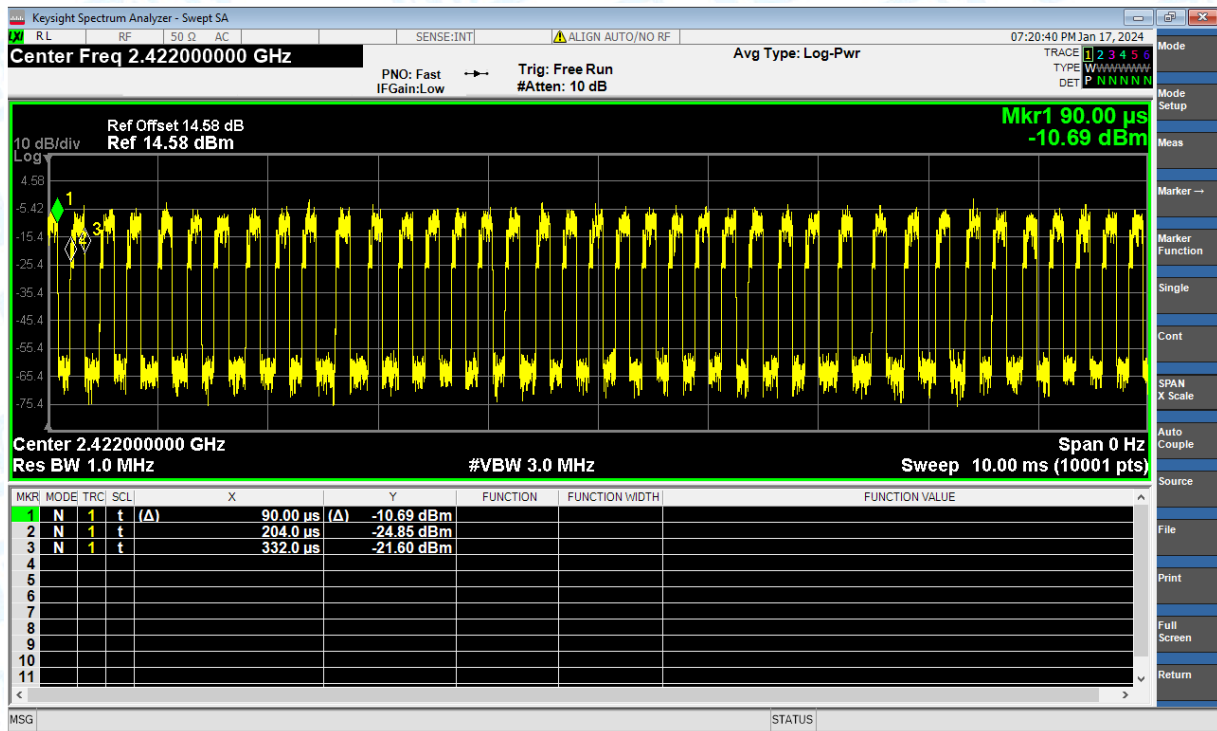
Duty Cycle NVNT n(HT20) 2437MHz Ant1



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



## Maximum Conducted Output Power

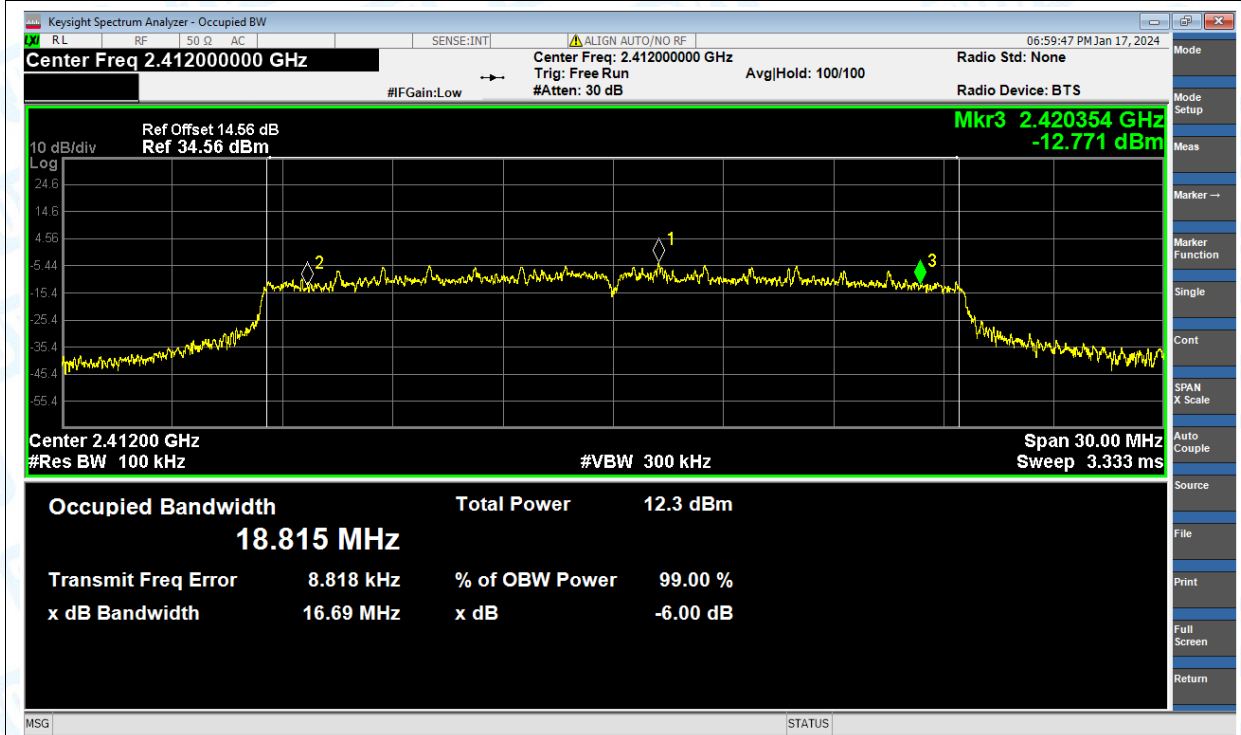
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	5.25	2.57	7.82	30	Pass
NVNT	ax(VHT20)	2437	Ant1	5.05	2.57	7.62	30	Pass
NVNT	ax(VHT20)	2462	Ant1	4.69	2.72	7.41	30	Pass
NVNT	ax(VHT40)	2422	Ant1	5.05	3.31	8.36	30	Pass
NVNT	ax(VHT40)	2437	Ant1	4.93	3.26	8.19	30	Pass
NVNT	ax(VHT40)	2452	Ant1	4.71	3.31	8.02	30	Pass
NVNT	b	2412	Ant1	7.75	0.04	7.79	30	Pass
NVNT	b	2437	Ant1	7.82	0.04	7.86	30	Pass
NVNT	b	2462	Ant1	7.96	0.03	7.99	30	Pass
NVNT	g	2412	Ant1	7.16	0.35	7.51	30	Pass
NVNT	g	2437	Ant1	6.95	0.31	7.26	30	Pass
NVNT	g	2462	Ant1	6.57	0.23	6.8	30	Pass
NVNT	n(HT20)	2412	Ant1	5.33	2.21	7.54	30	Pass
NVNT	n(HT20)	2437	Ant1	5.11	2.31	7.42	30	Pass
NVNT	n(HT20)	2462	Ant1	4.72	2.21	6.93	30	Pass
NVNT	n(HT40)	2422	Ant1	5.09	2.77	7.86	30	Pass
NVNT	n(HT40)	2437	Ant1	4.94	2.73	7.67	30	Pass
NVNT	n(HT40)	2452	Ant1	4.73	3.04	7.77	30	Pass

## -6dB Bandwidth

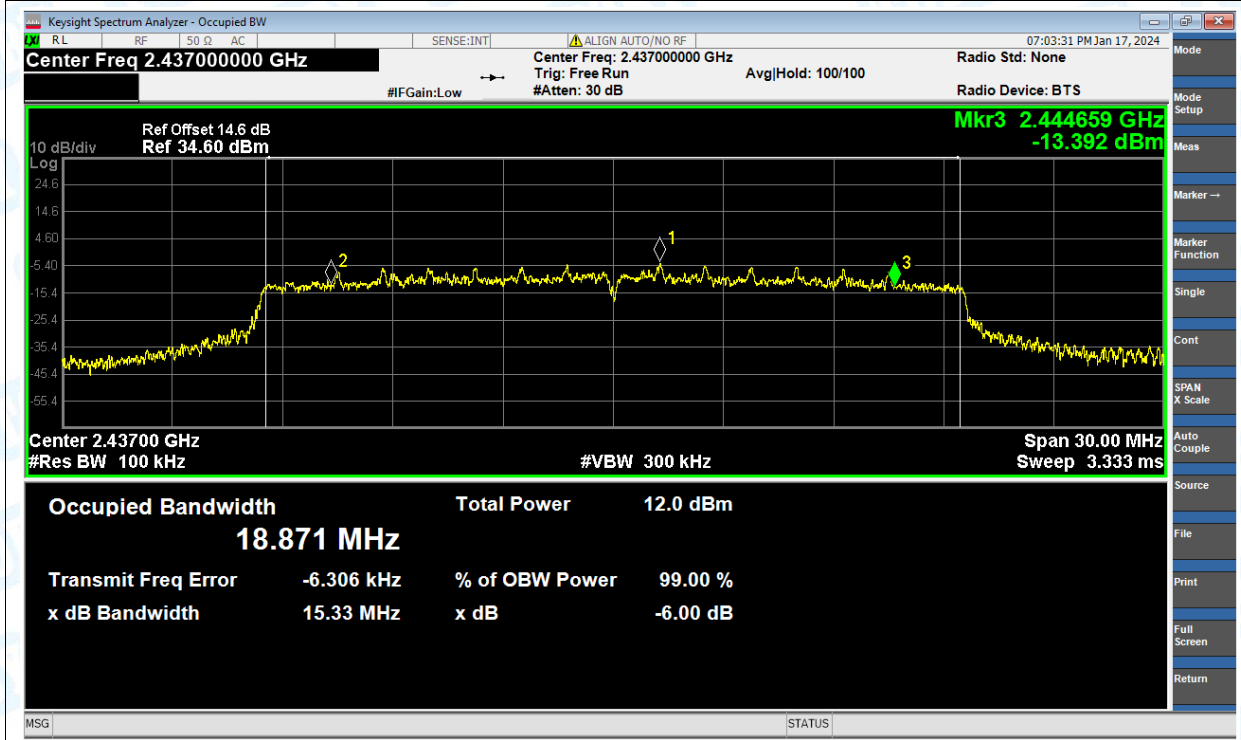
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	16.69	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	15.33	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	15.94	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	36.39	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	36.39	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	36.37	0.5	Pass
NVNT	b	2412	Ant1	10.03	0.5	Pass
NVNT	b	2437	Ant1	10.04	0.5	Pass
NVNT	b	2462	Ant1	10.03	0.5	Pass
NVNT	g	2412	Ant1	15.08	0.5	Pass
NVNT	g	2437	Ant1	16.05	0.5	Pass
NVNT	g	2462	Ant1	15.39	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.96	0.5	Pass
NVNT	n(HT20)	2437	Ant1	15.74	0.5	Pass
NVNT	n(HT20)	2462	Ant1	15.61	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.71	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.13	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.71	0.5	Pass

Test Graphs

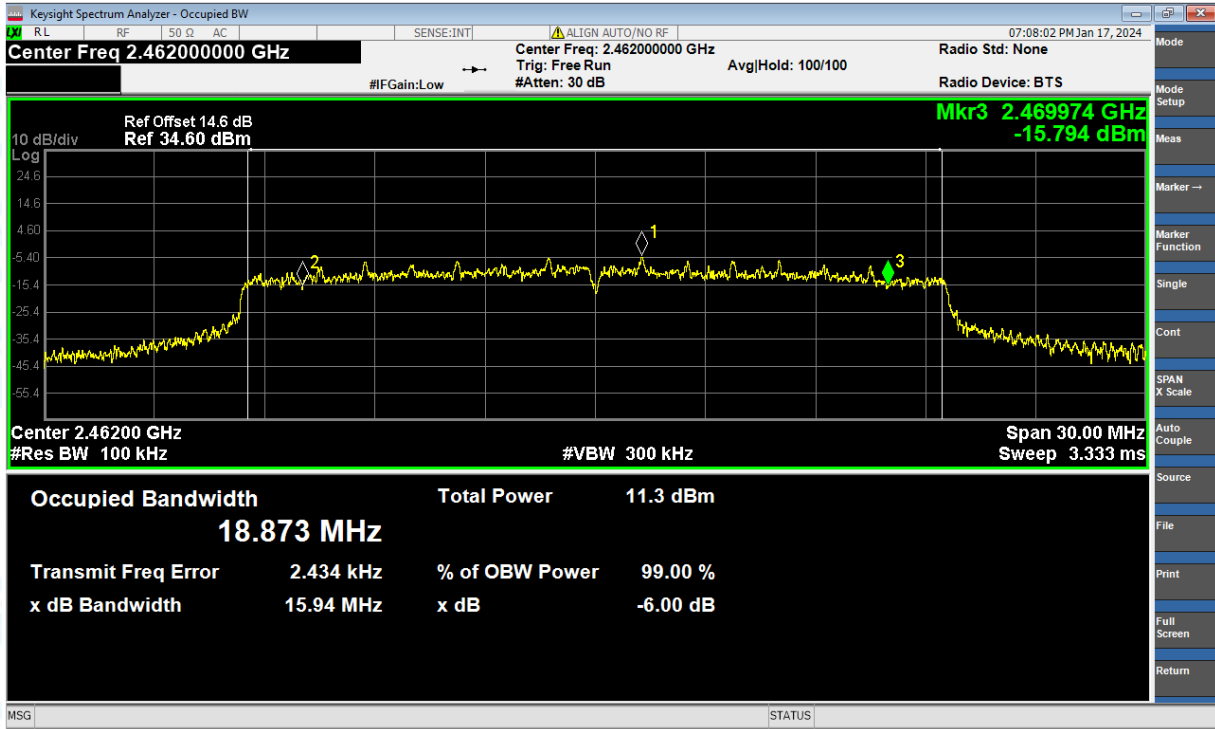
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



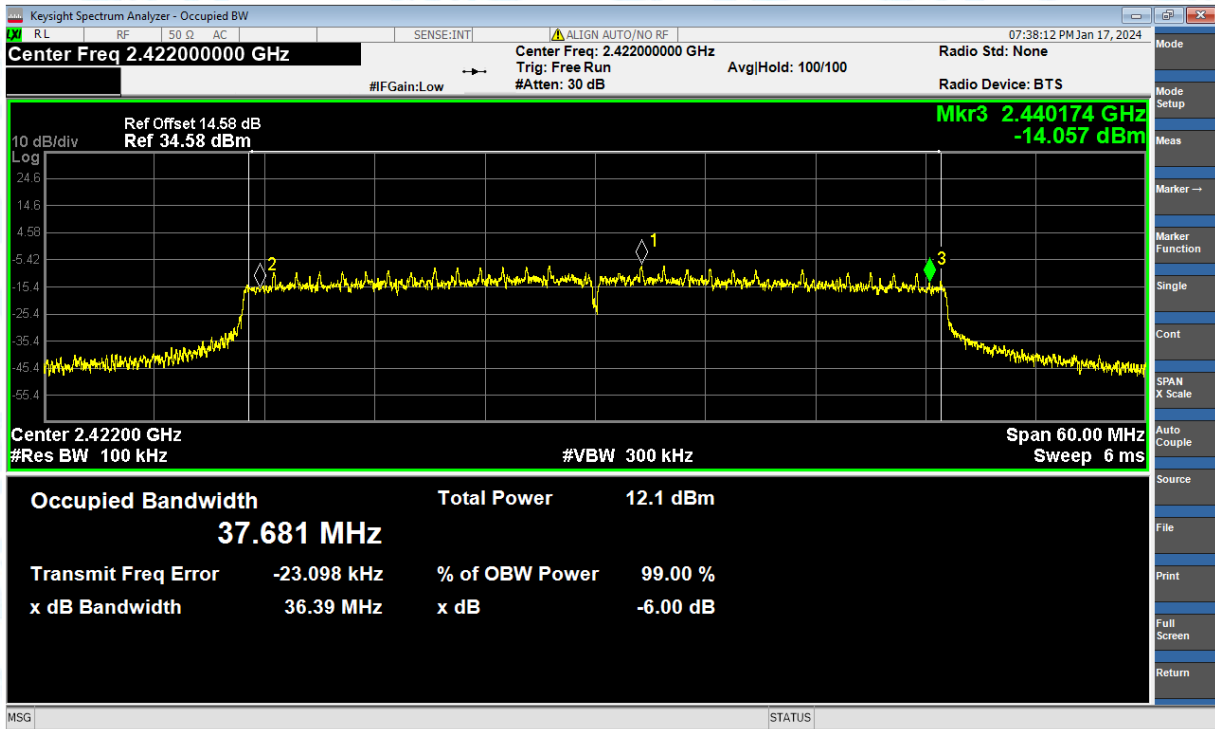
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



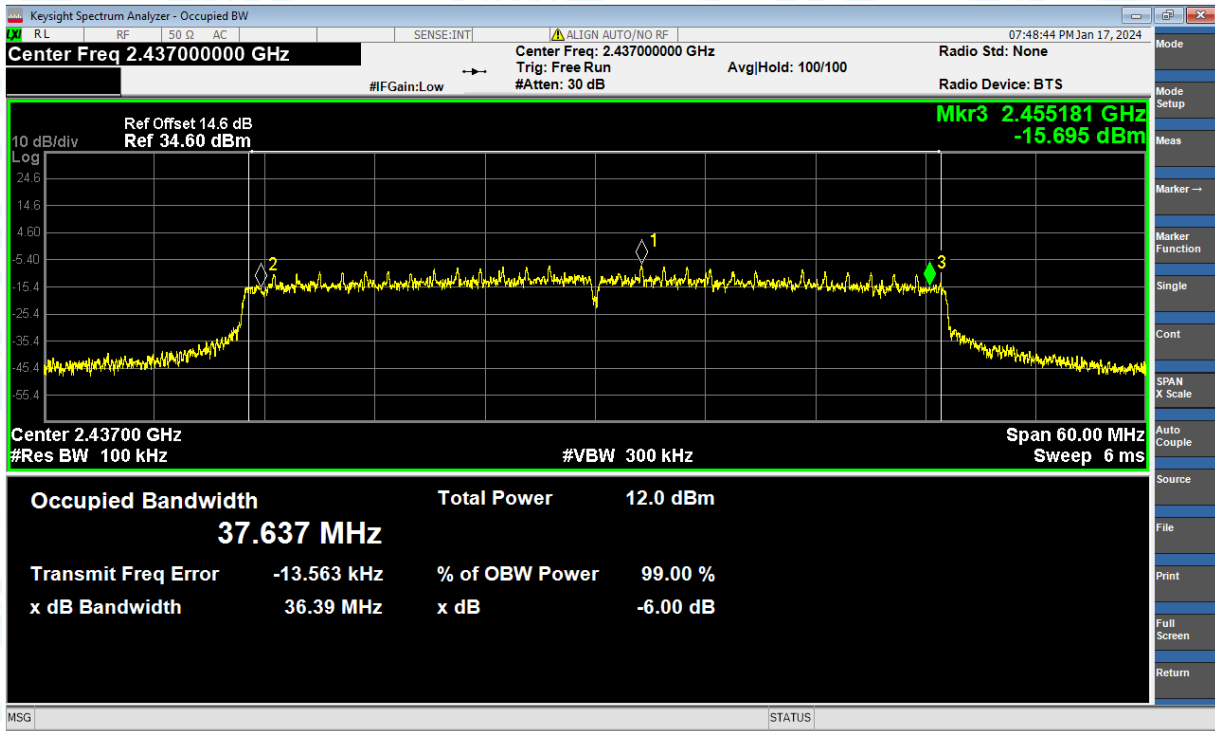
-6dB Bandwidth NVNT ax(VHT20) 2462MHz Ant1



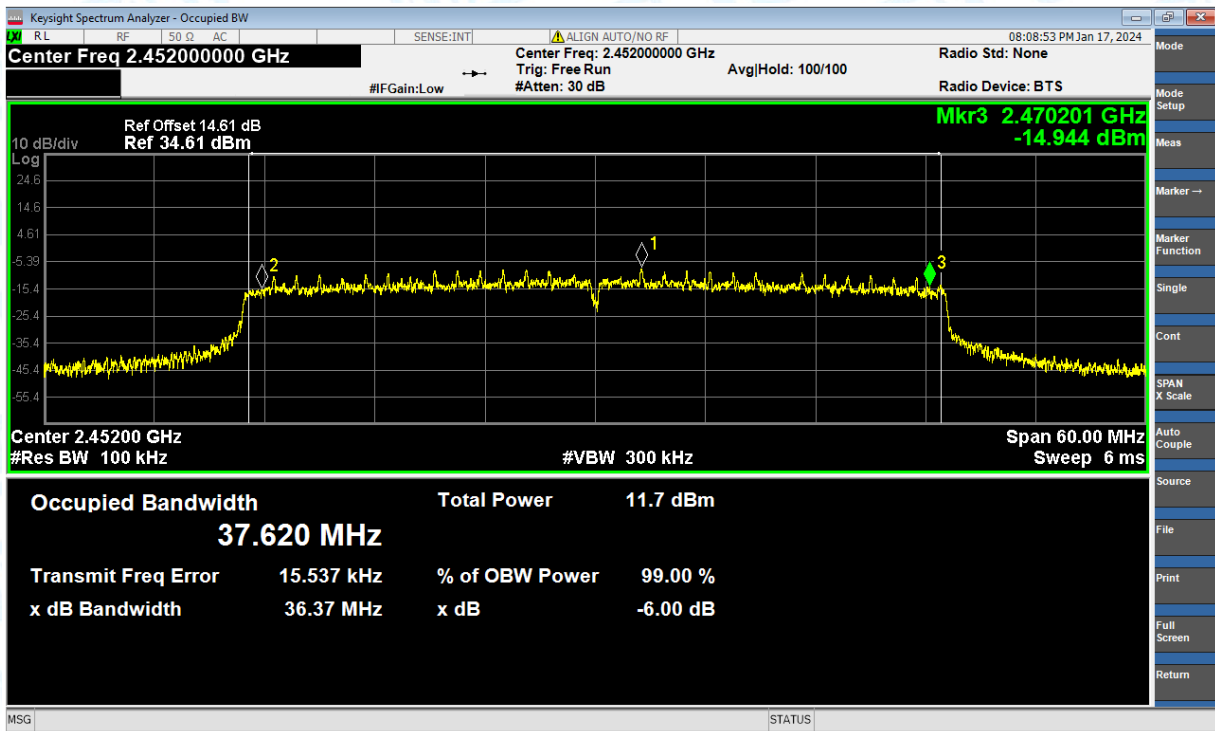
-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1



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

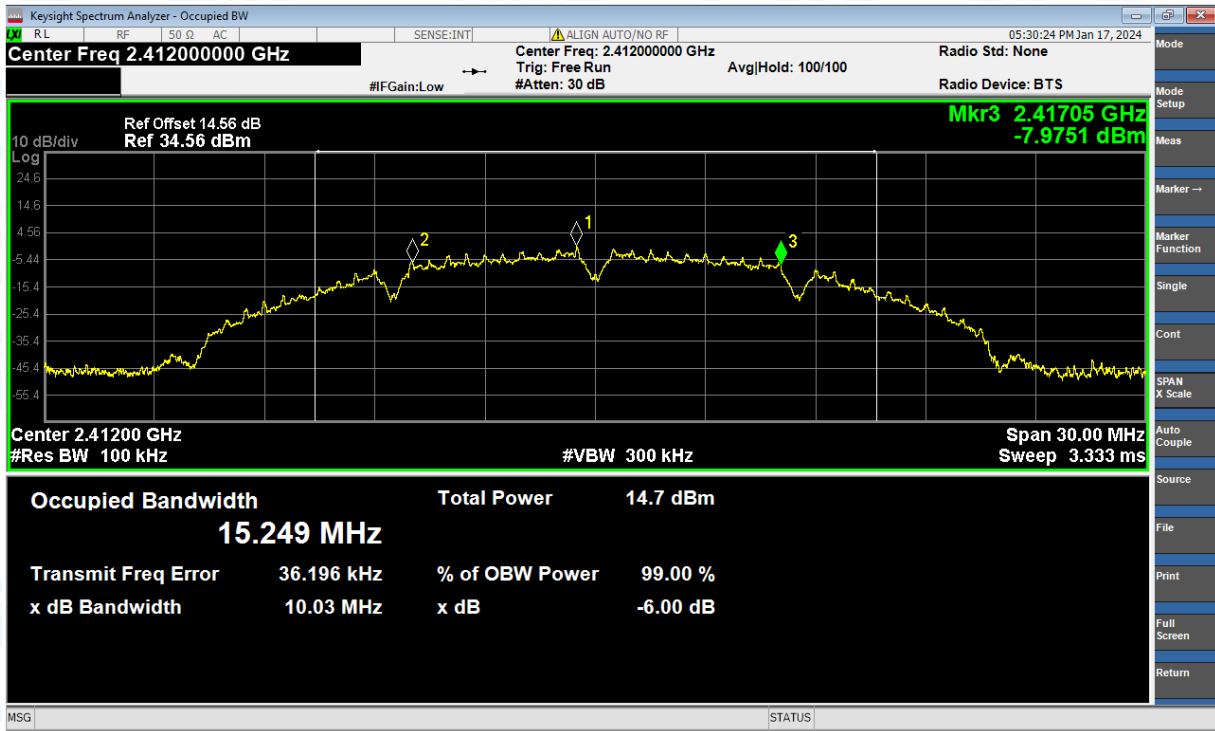


-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1

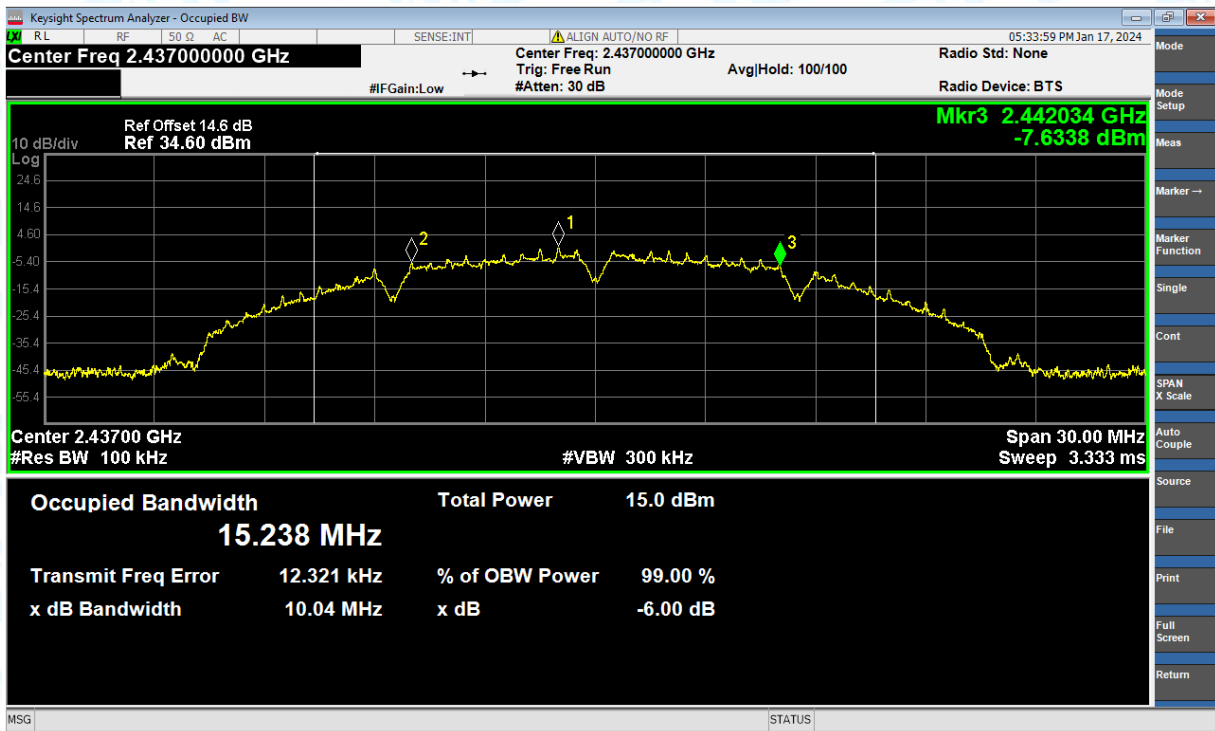




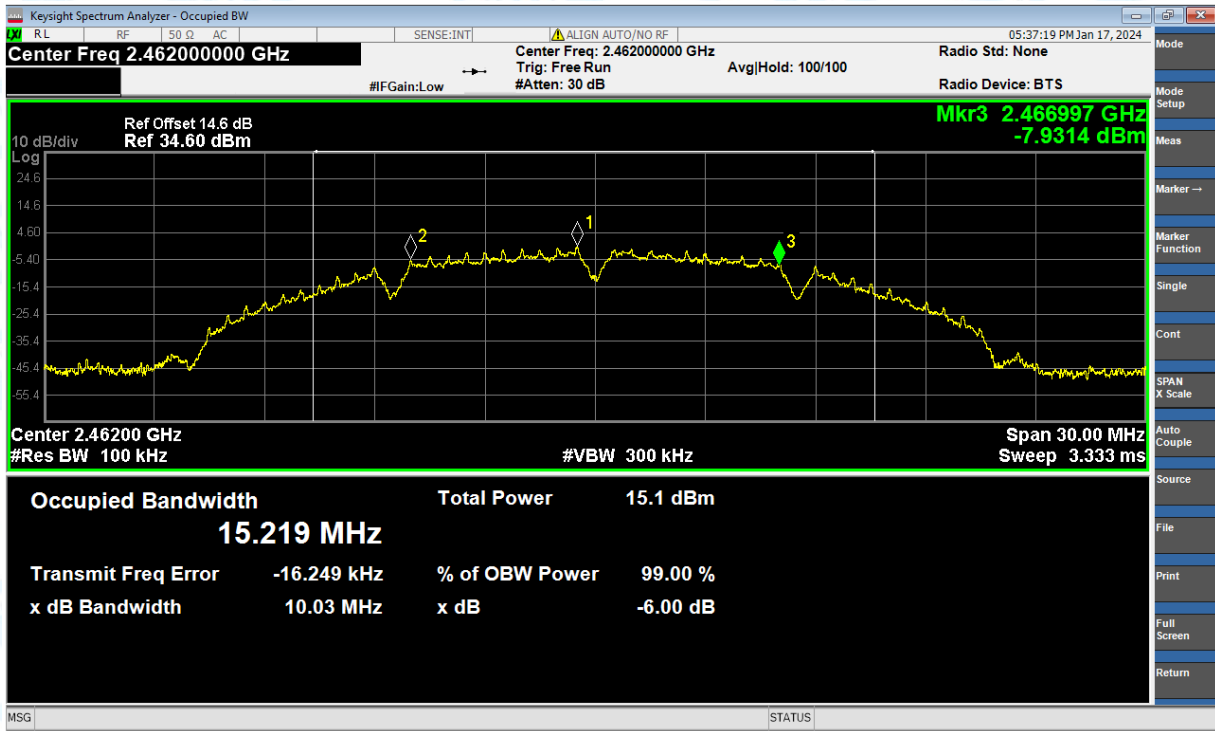
-6dB Bandwidth NVNT b 2412MHz Ant1



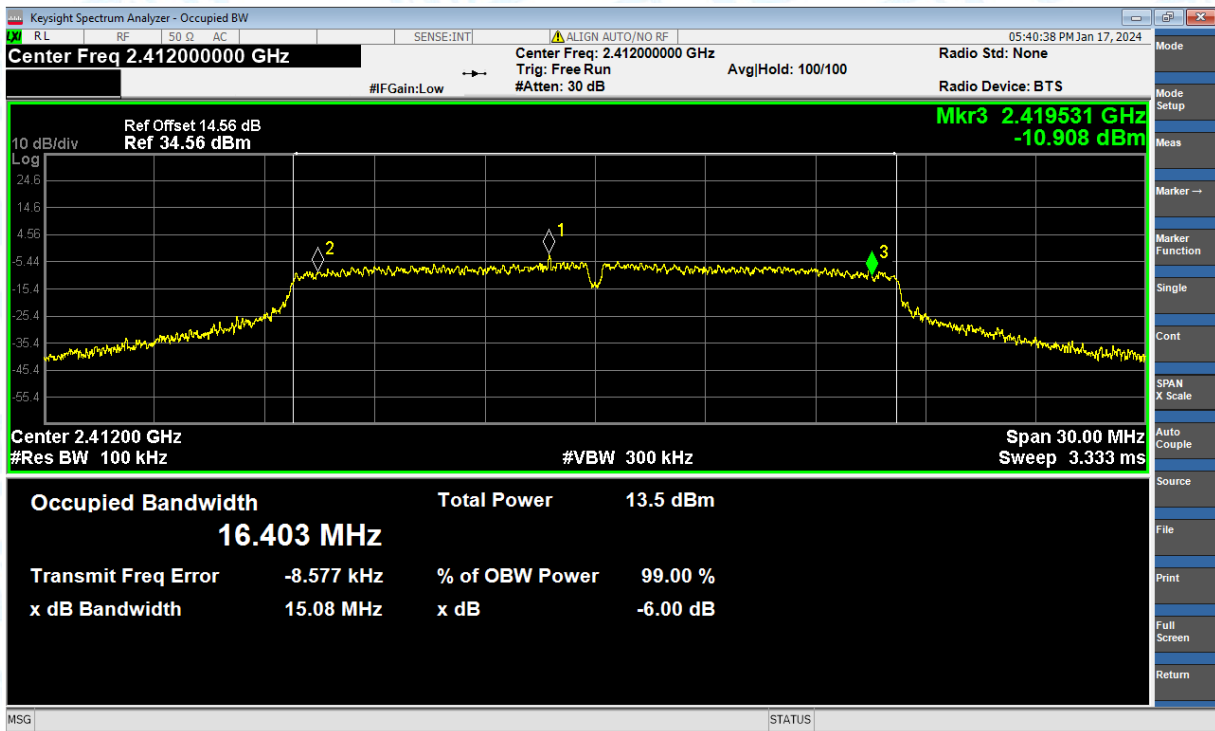
-6dB Bandwidth NVNT b 2437MHz Ant1



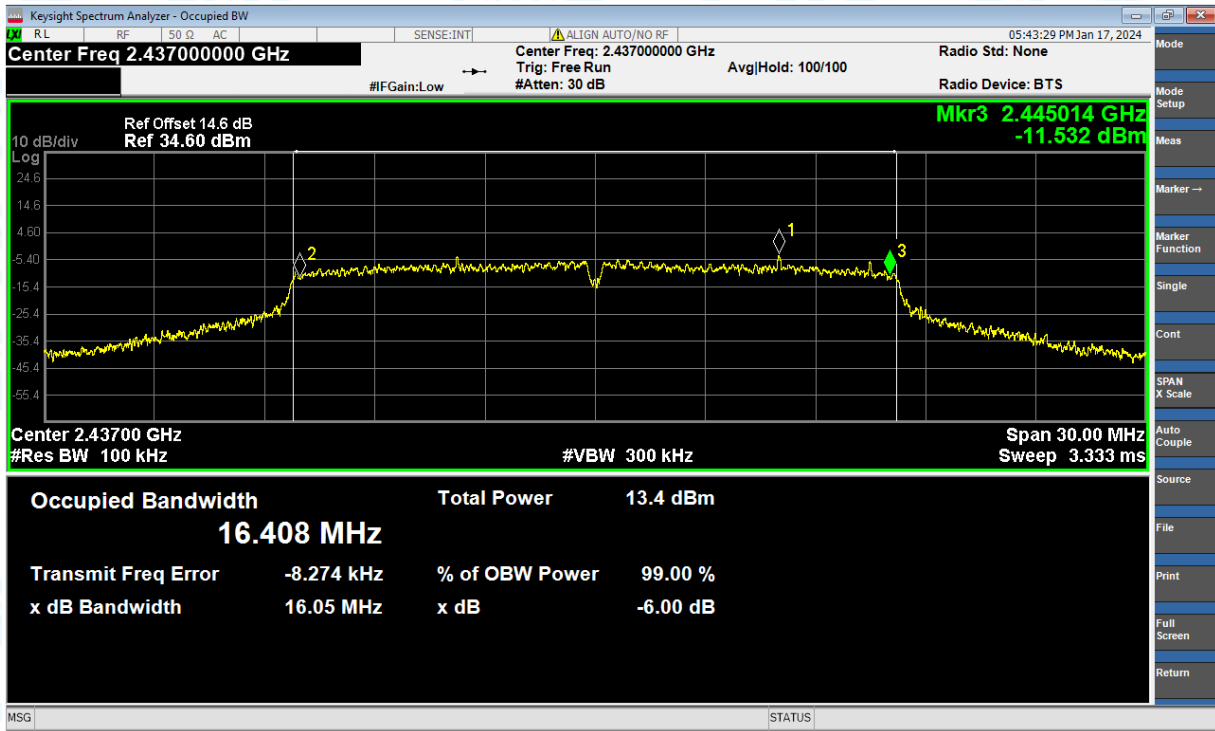
-6dB Bandwidth NVNT b 2462MHz Ant1



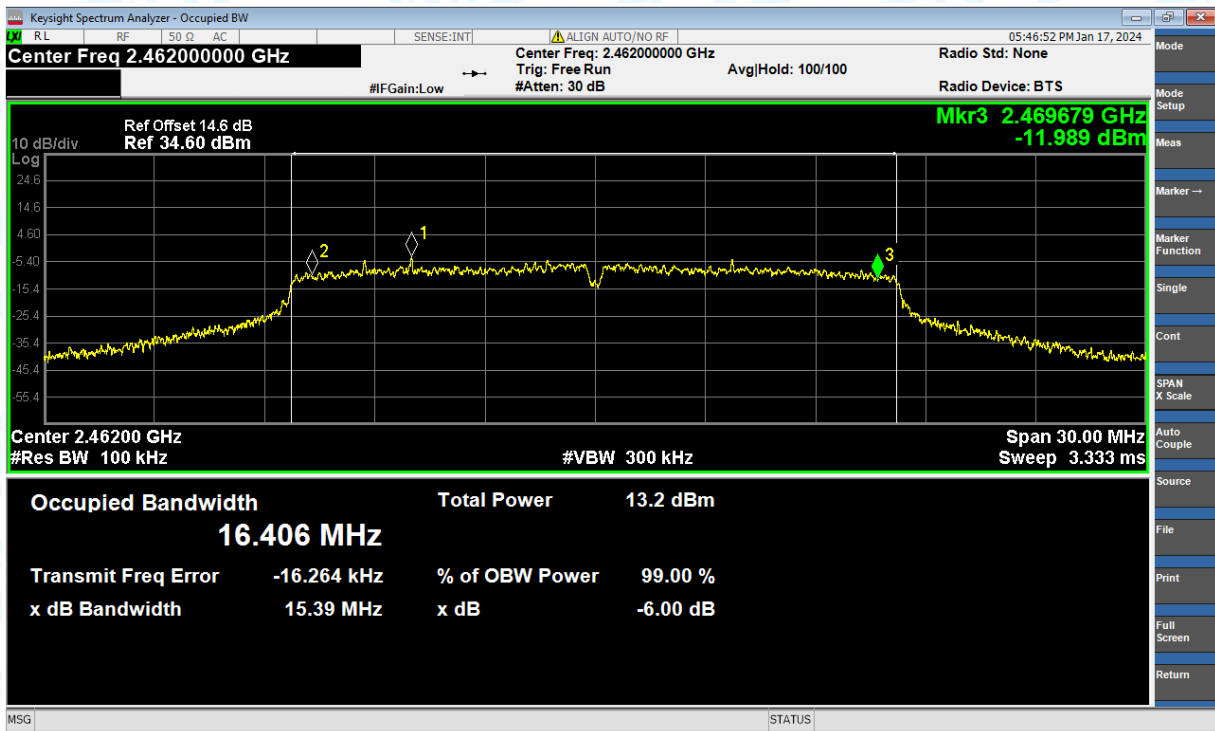
-6dB Bandwidth NVNT g 2412MHz Ant1



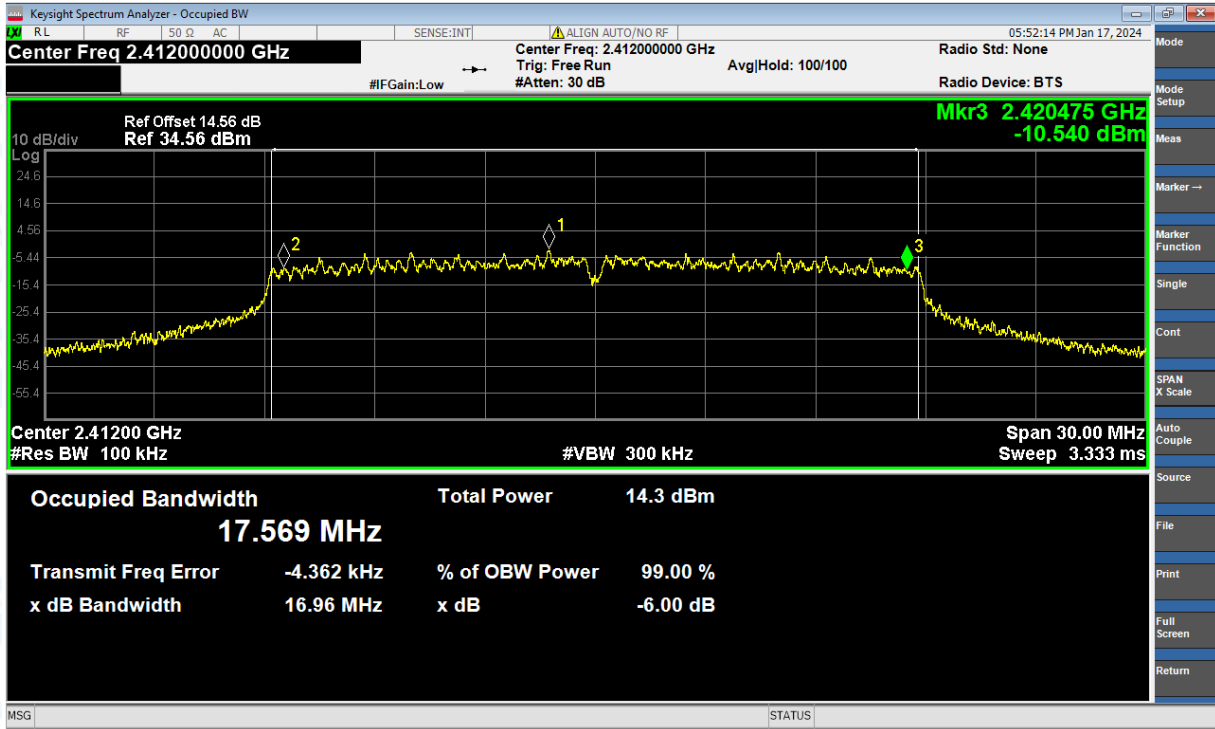
-6dB Bandwidth NVNT g 2437MHz Ant1



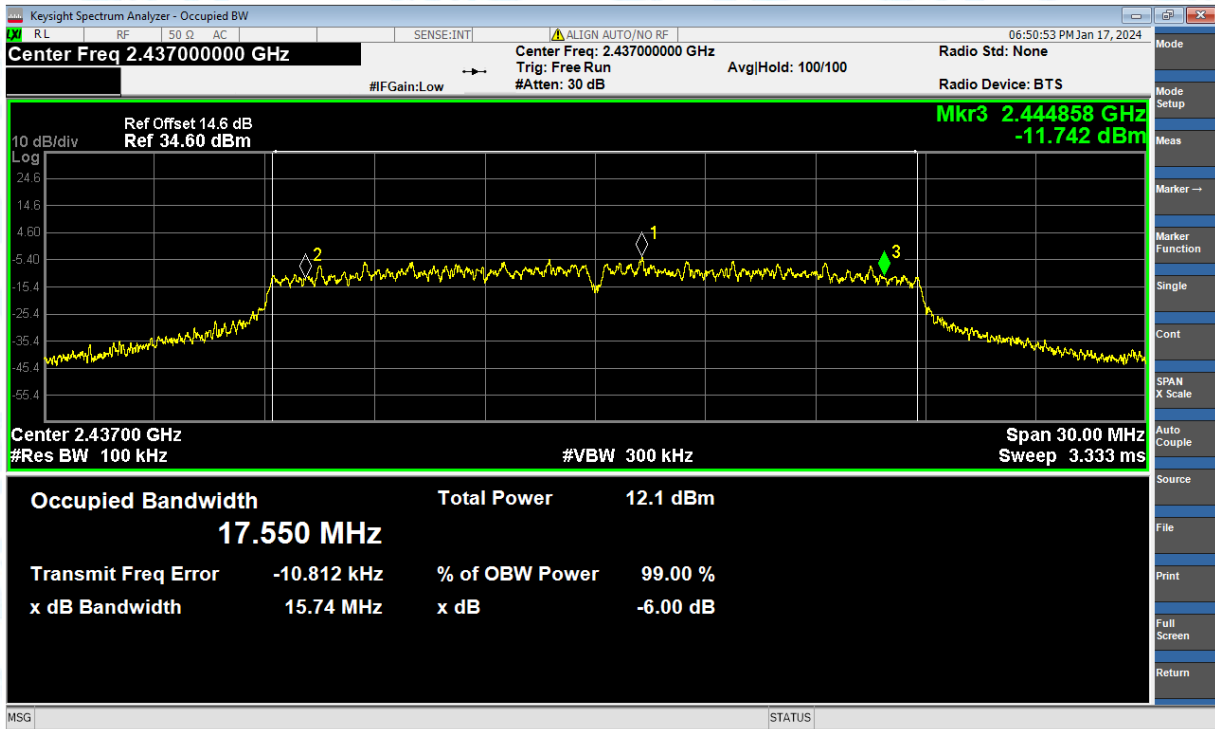
-6dB Bandwidth NVNT g 2462MHz Ant1



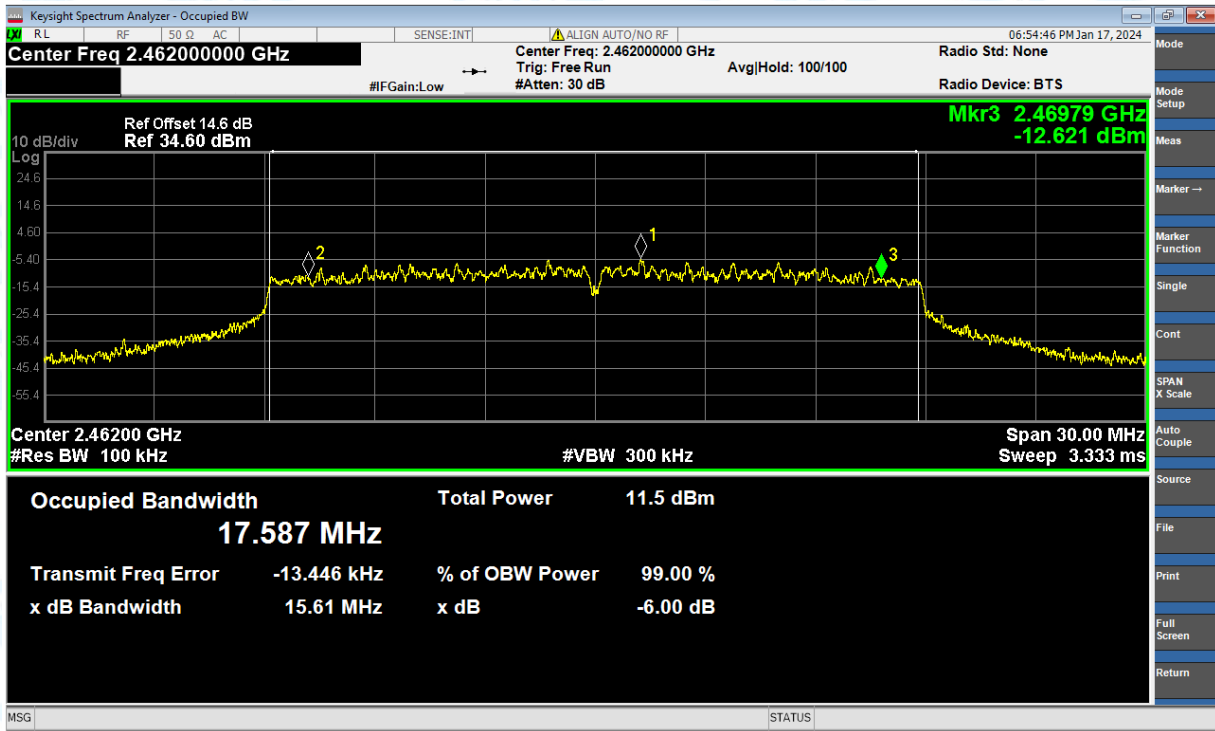
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



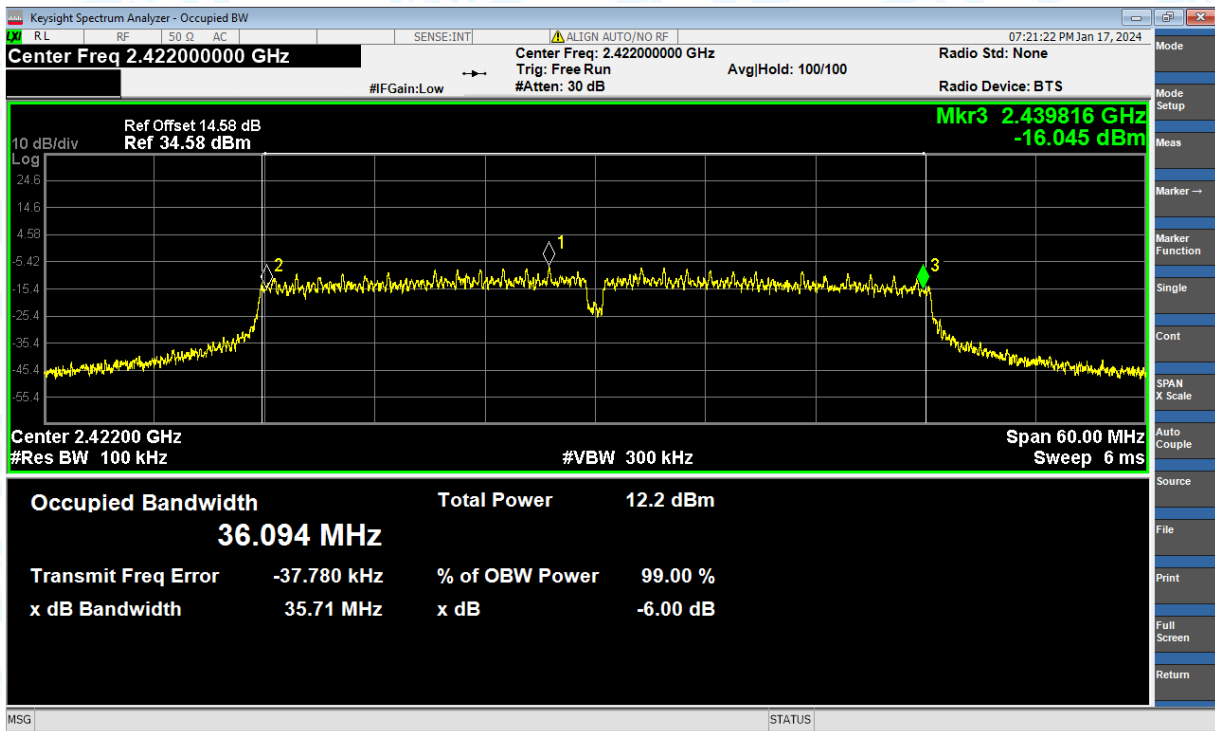
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



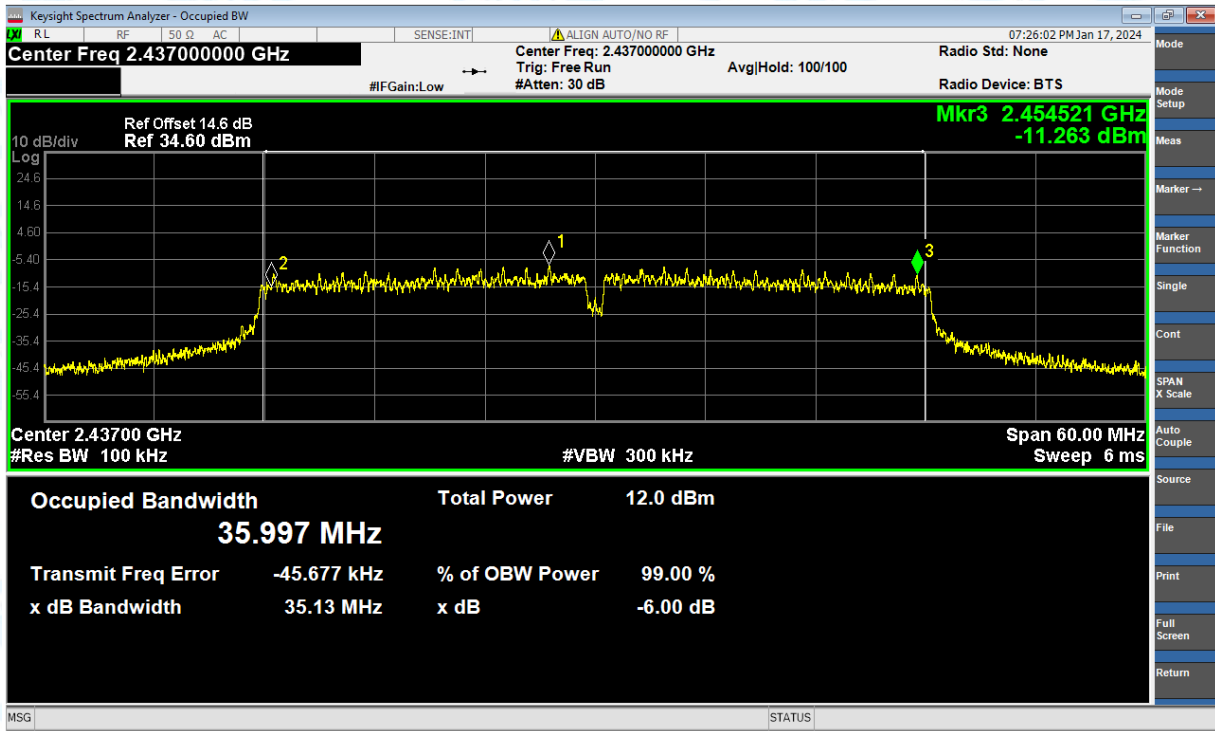
-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



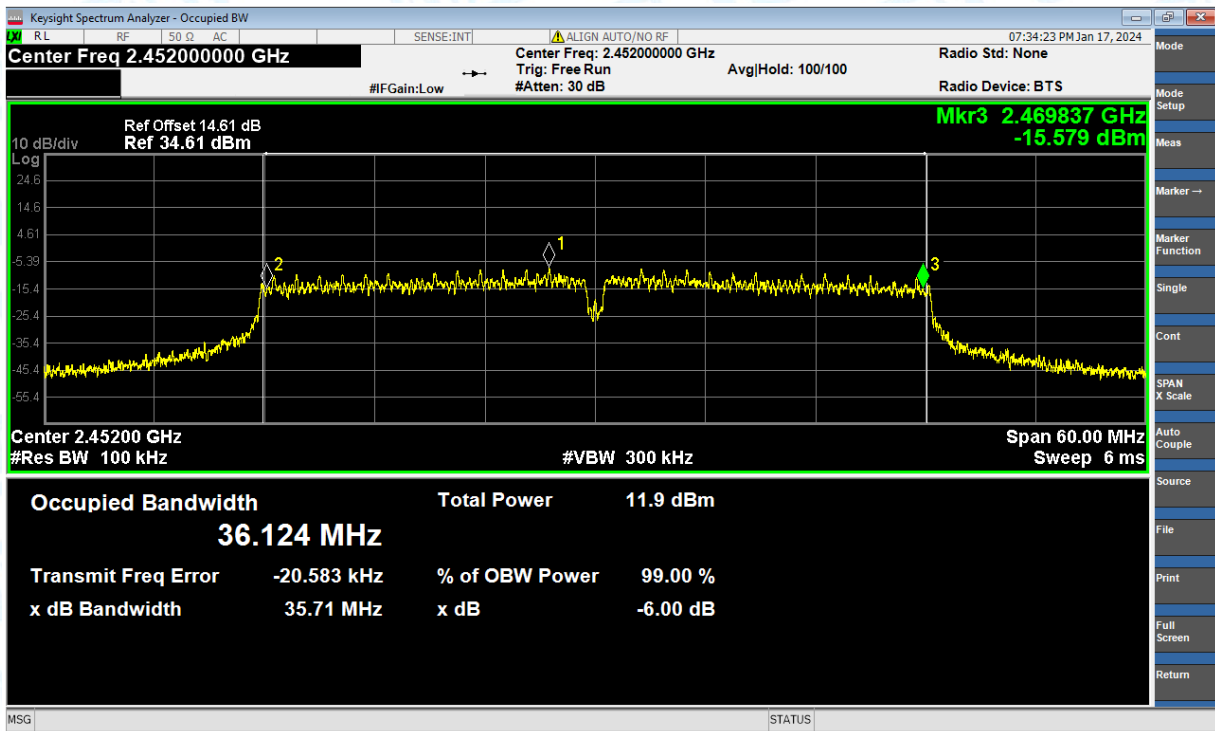
-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1



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



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

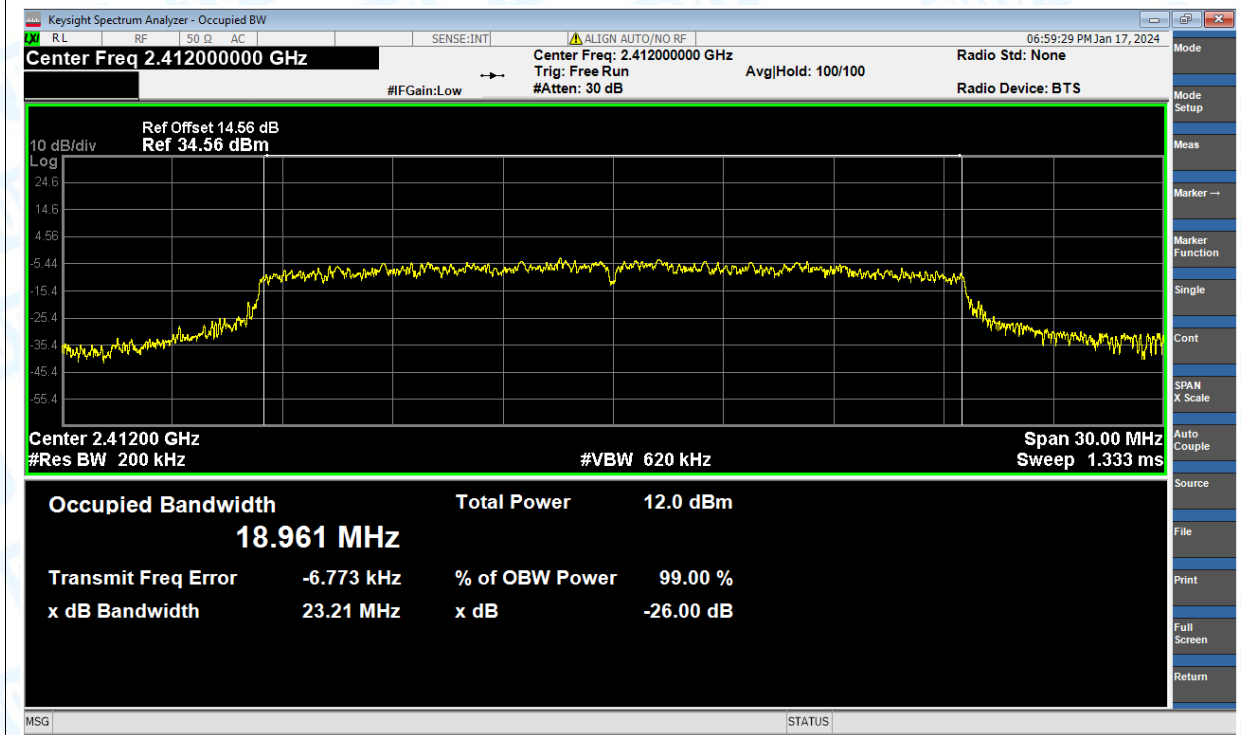


## Occupied Channel Bandwidth

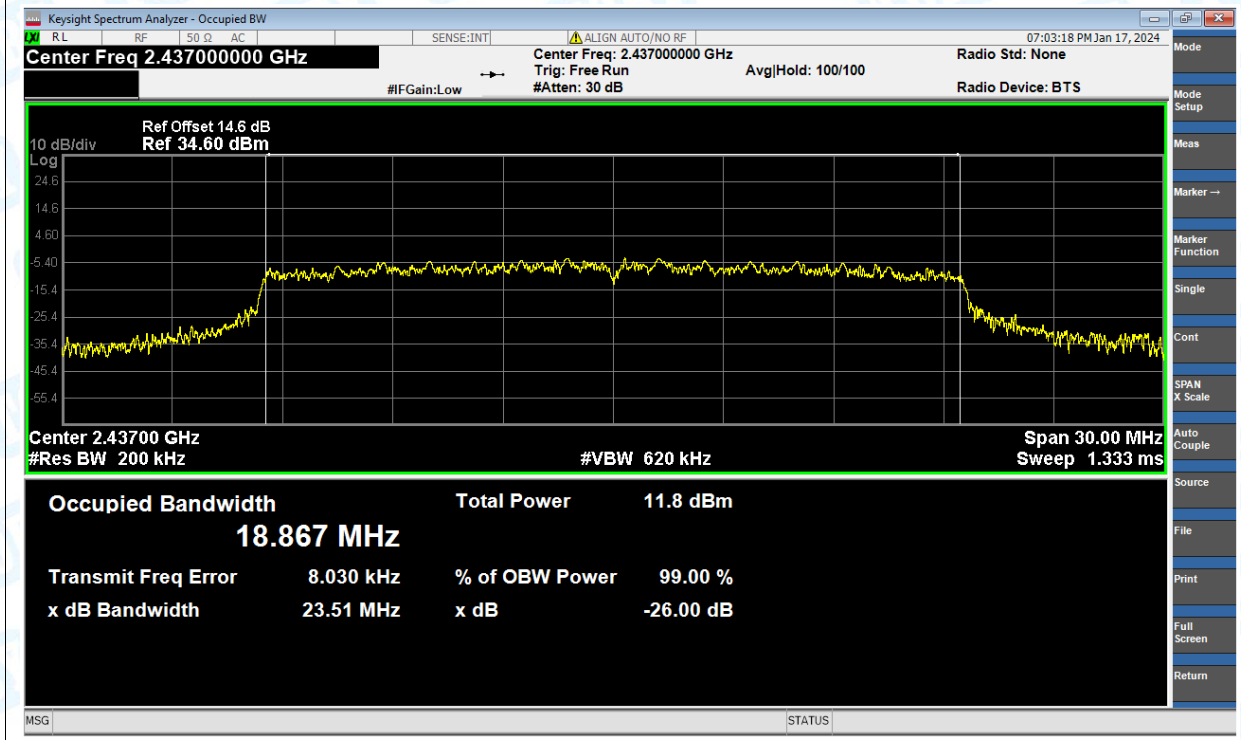
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.961
NVNT	ax(VHT20)	2437	Ant1	18.867
NVNT	ax(VHT20)	2462	Ant1	18.935
NVNT	ax(VHT40)	2422	Ant1	37.837
NVNT	ax(VHT40)	2437	Ant1	37.886
NVNT	ax(VHT40)	2452	Ant1	37.84
NVNT	b	2412	Ant1	15.236
NVNT	b	2437	Ant1	15.243
NVNT	b	2462	Ant1	15.24
NVNT	g	2412	Ant1	16.551
NVNT	g	2437	Ant1	16.546
NVNT	g	2462	Ant1	16.541
NVNT	n(HT20)	2412	Ant1	17.629
NVNT	n(HT20)	2437	Ant1	17.644
NVNT	n(HT20)	2462	Ant1	17.635
NVNT	n(HT40)	2422	Ant1	36.205
NVNT	n(HT40)	2437	Ant1	36.27
NVNT	n(HT40)	2452	Ant1	36.279

Test Graphs

OBW NVNT ax(VHT20) 2412MHz Ant1

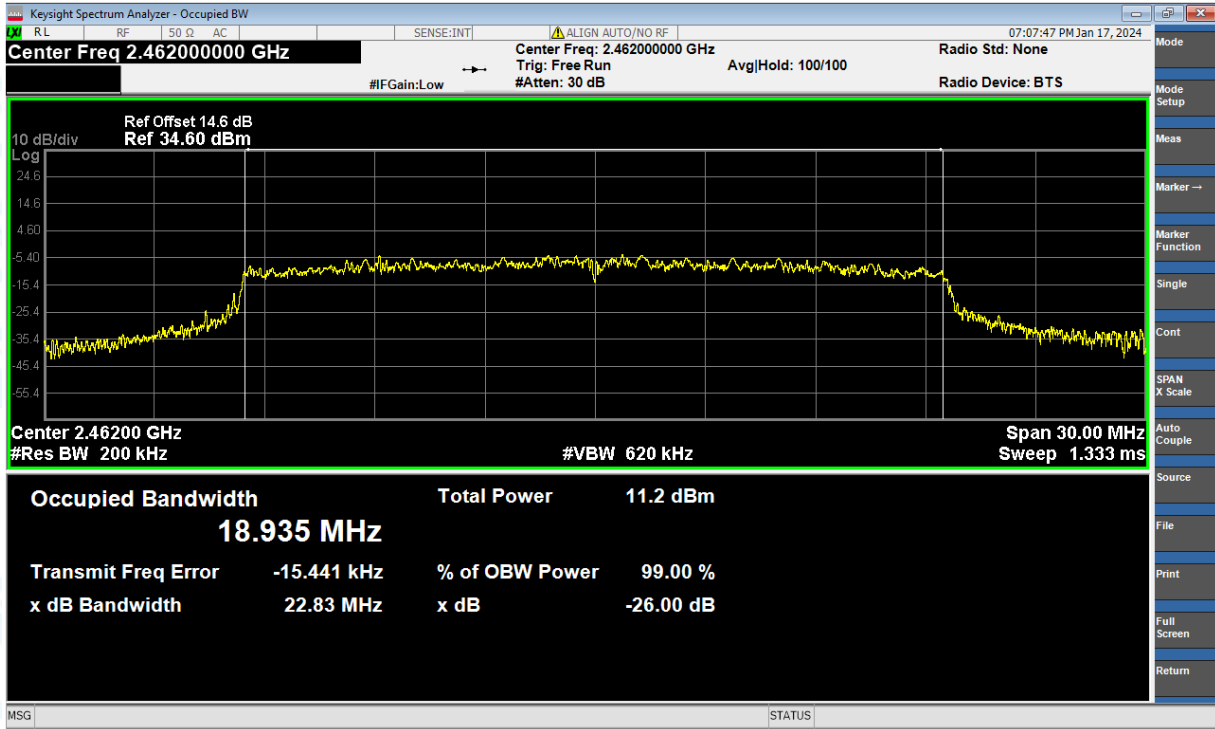


OBW NVNT ax(VHT20) 2437MHz Ant1

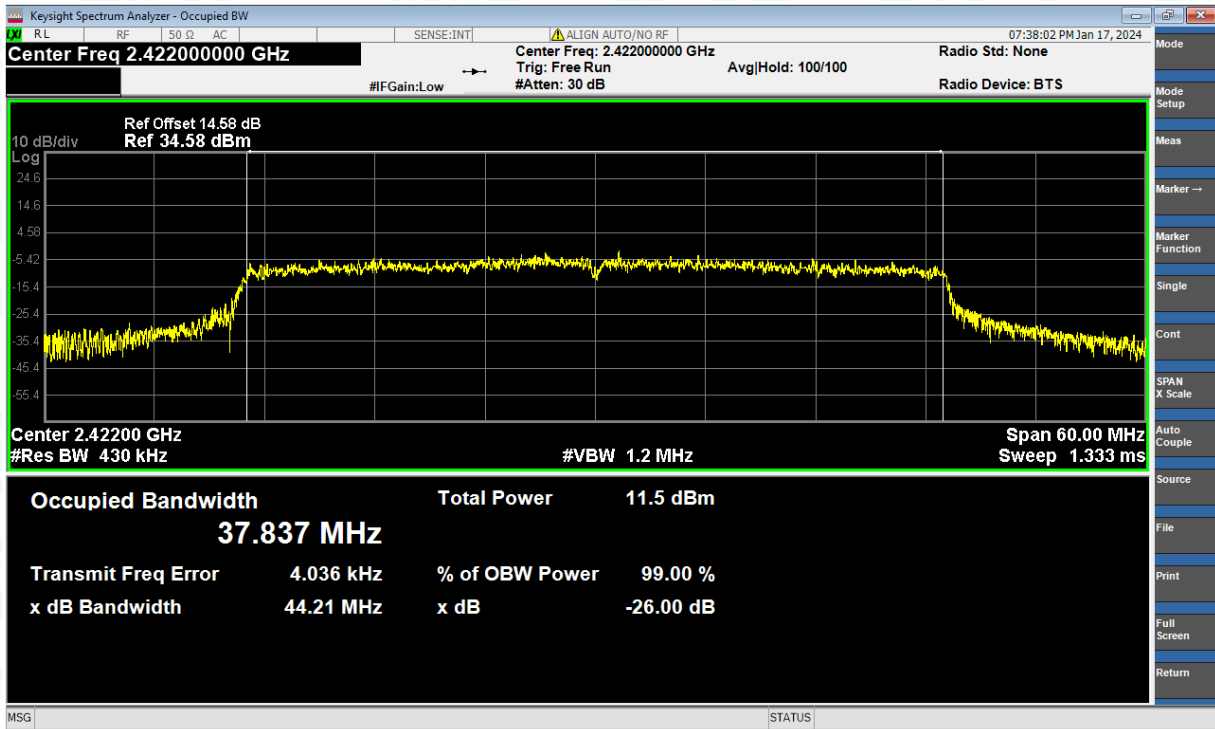




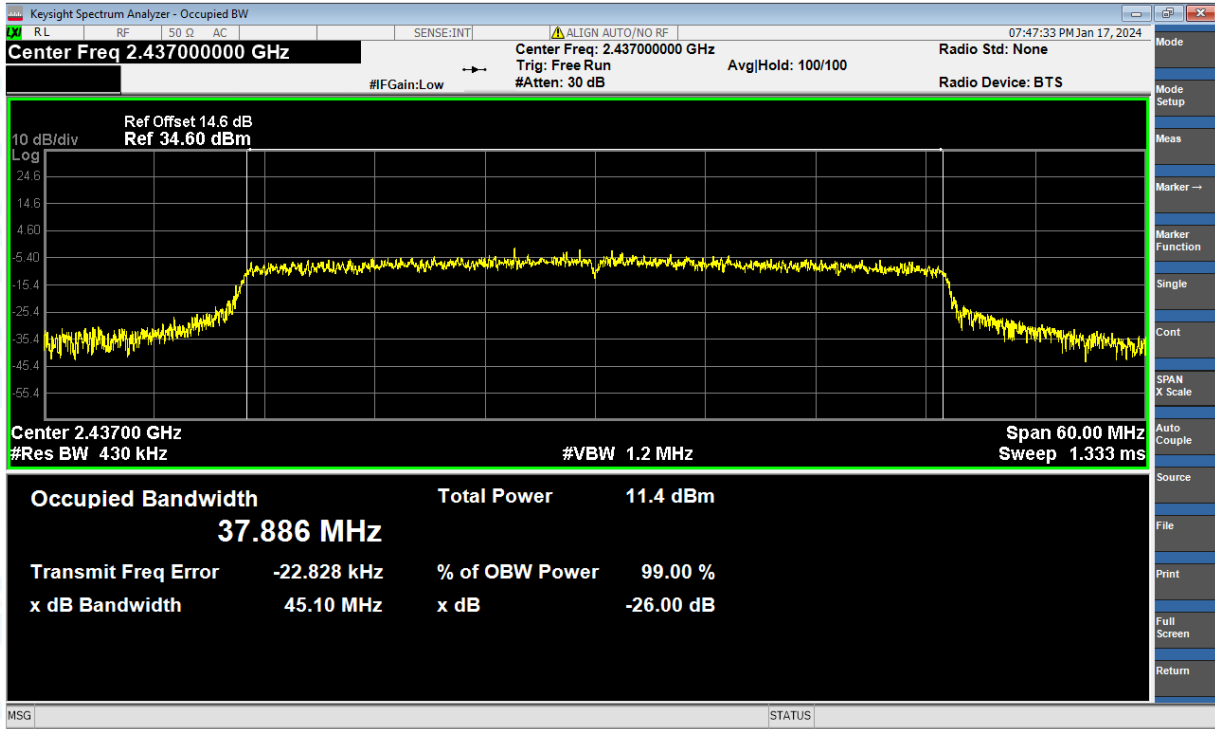
OBW NVNT ax(VHT20) 2462MHz Ant1



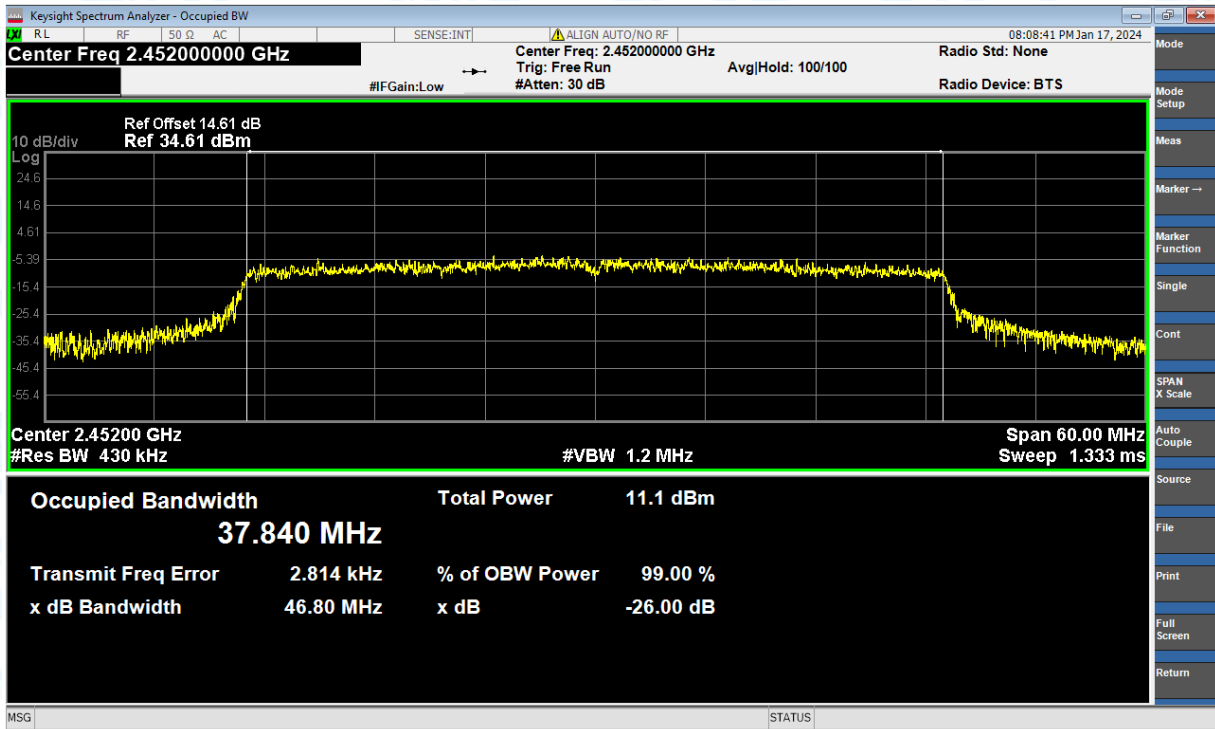
OBW NVNT ax(VHT40) 2422MHz Ant1



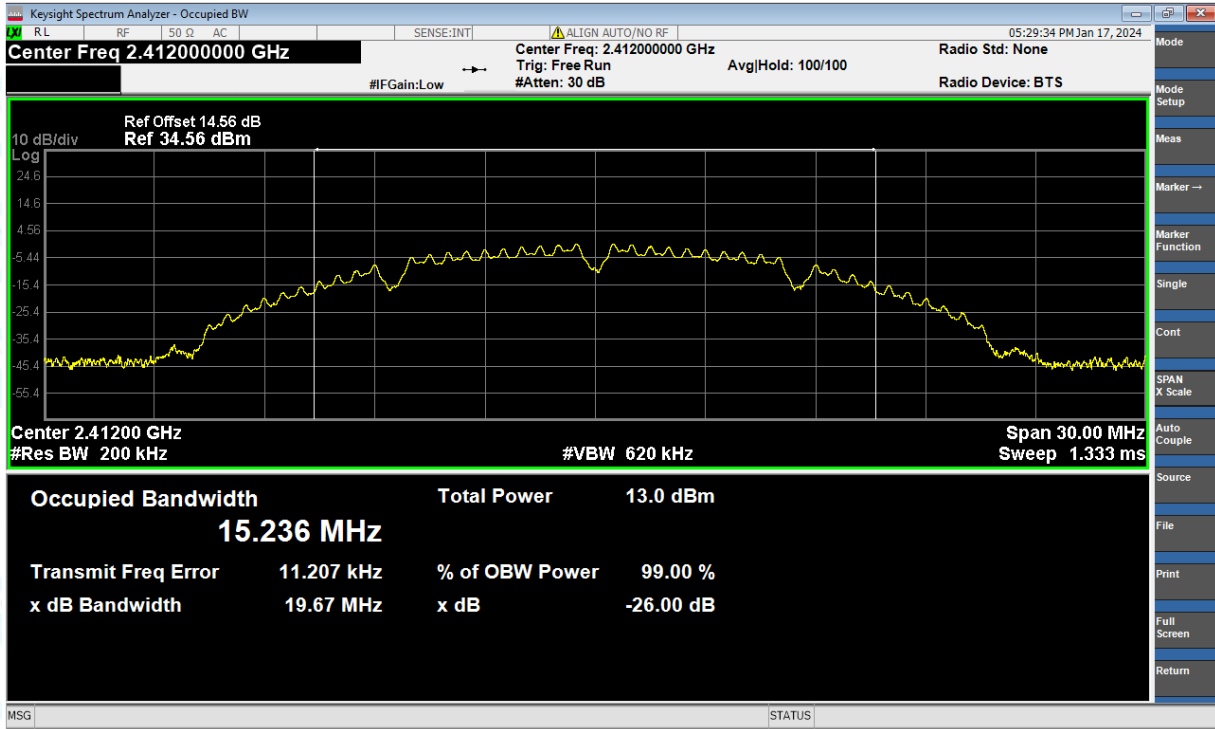
OBW NVNT ax(VHT40) 2437MHz Ant1



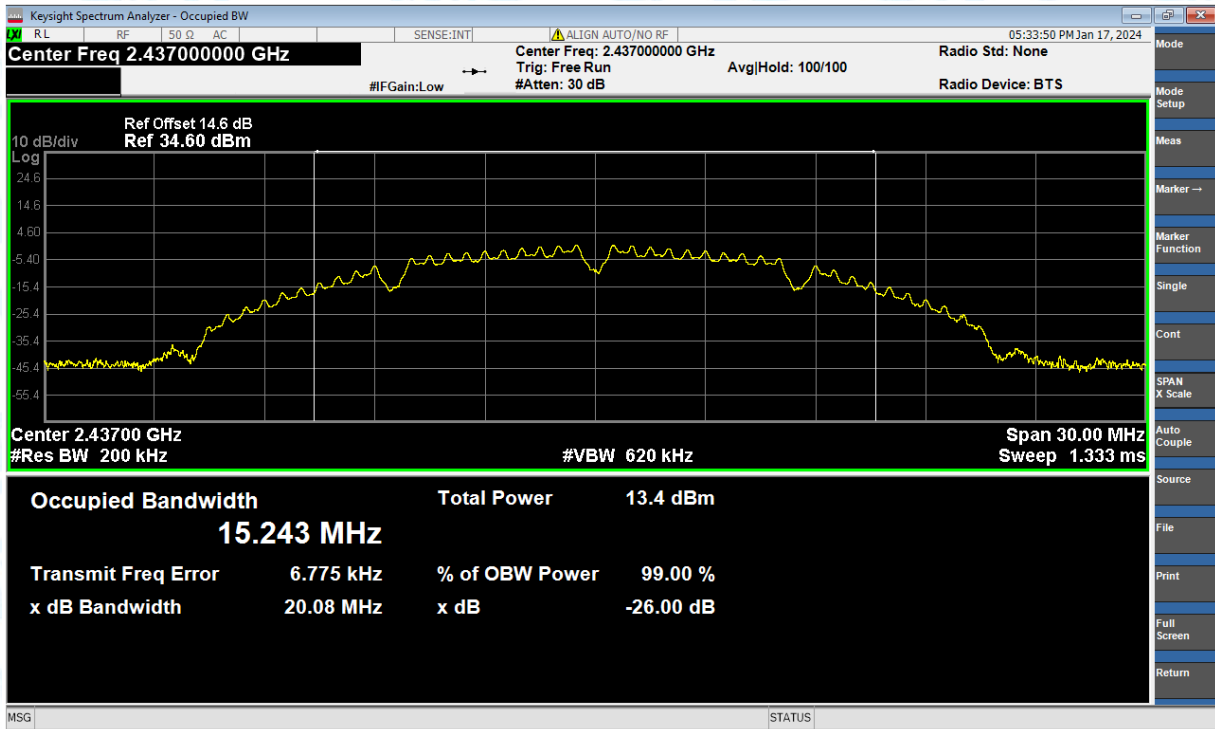
OBW NVNT ax(VHT40) 2452MHz Ant1



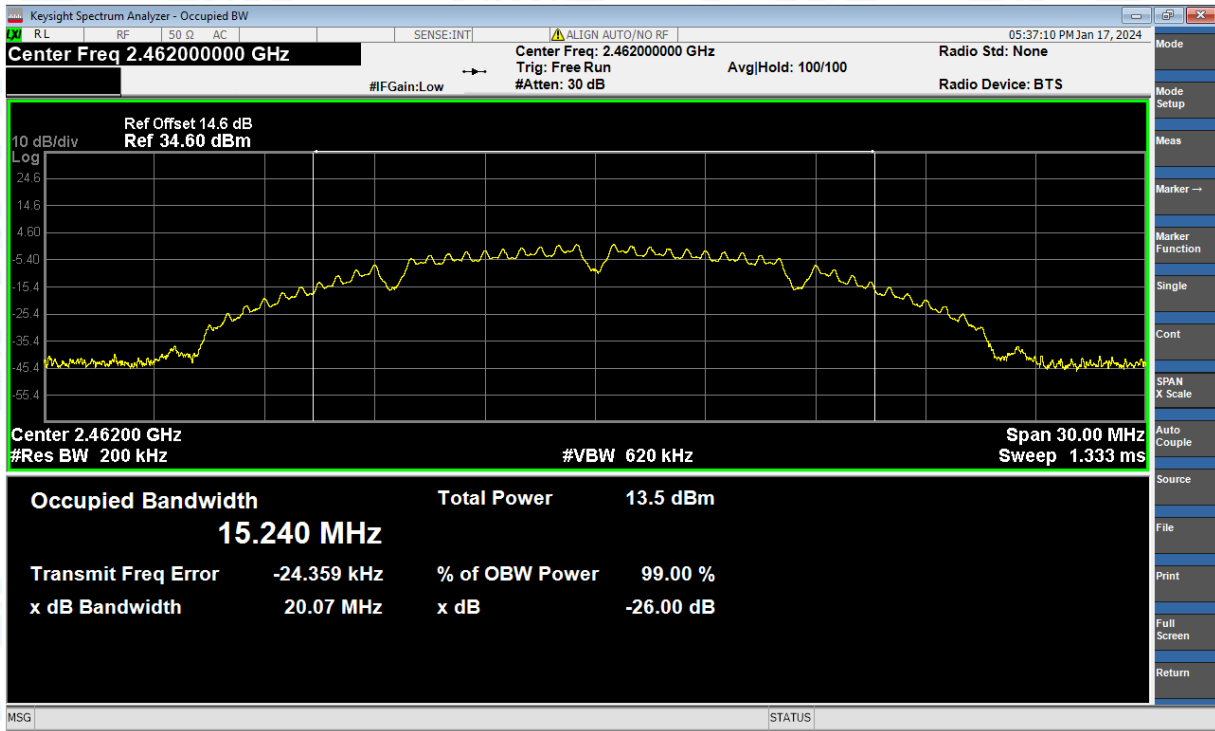
OBW NVNT b 2412MHz Ant1



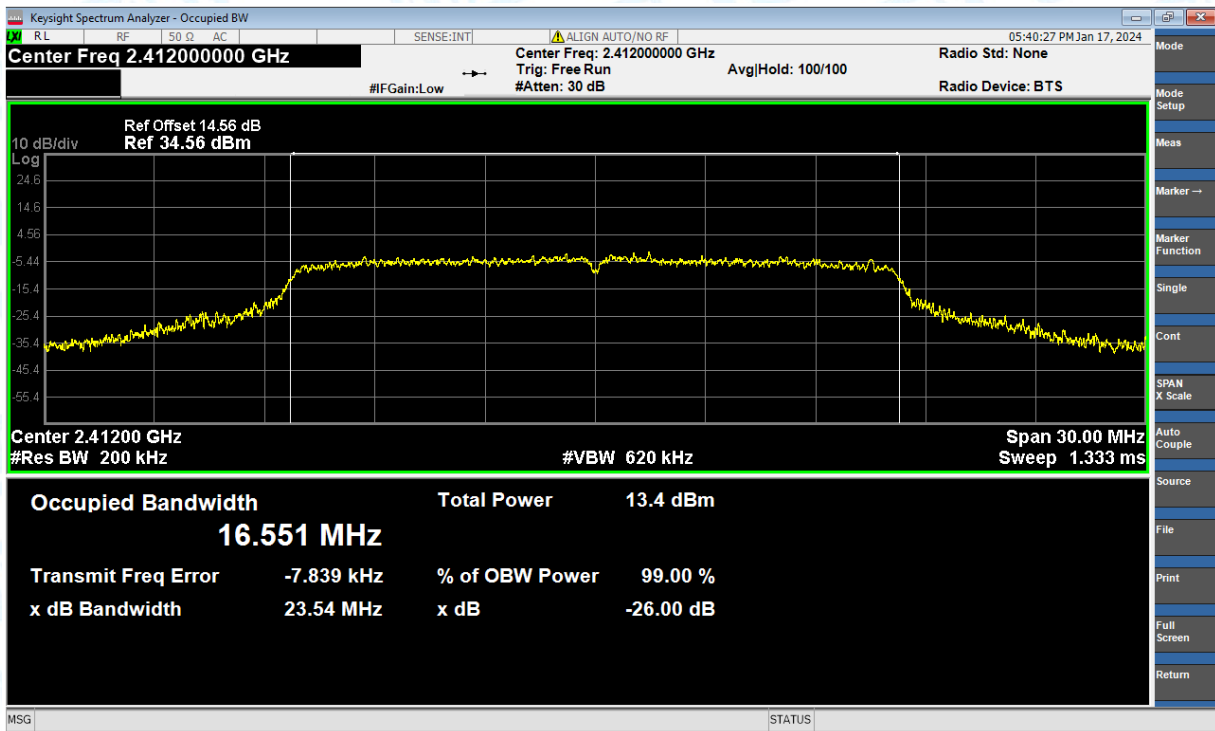
OBW NVNT b 2437MHz Ant1



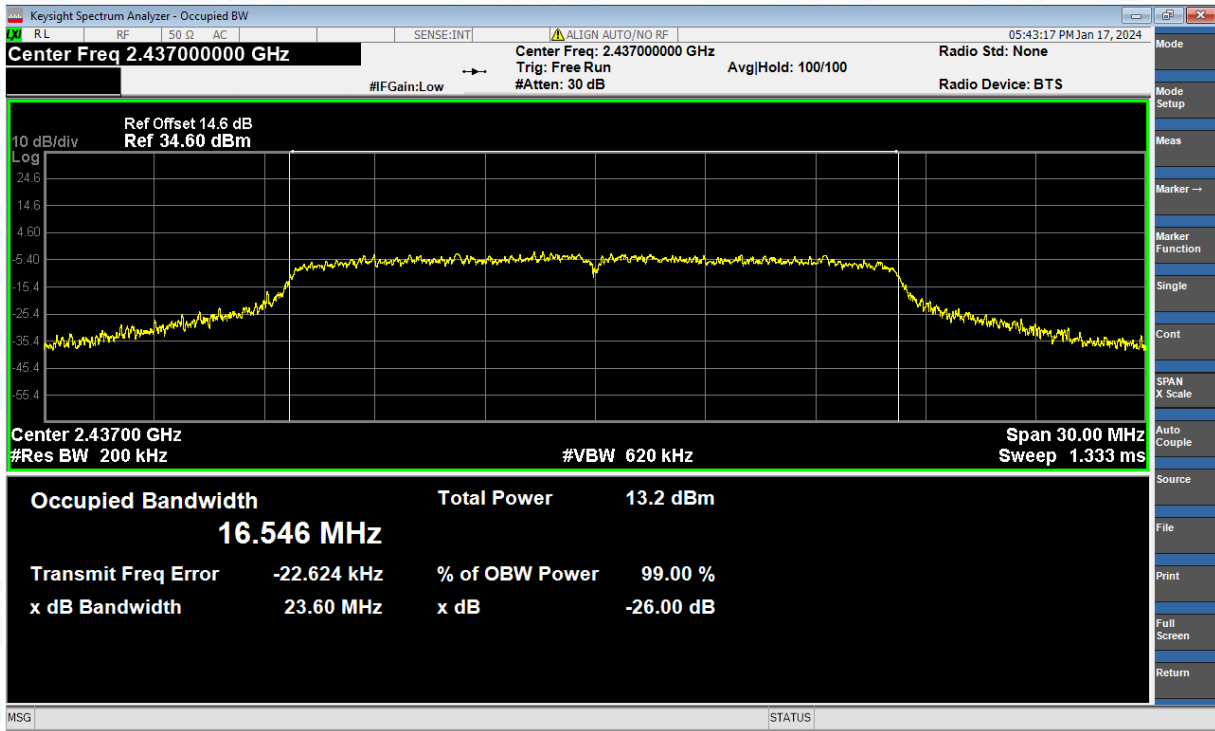
OBW NVNT b 2462MHz Ant1



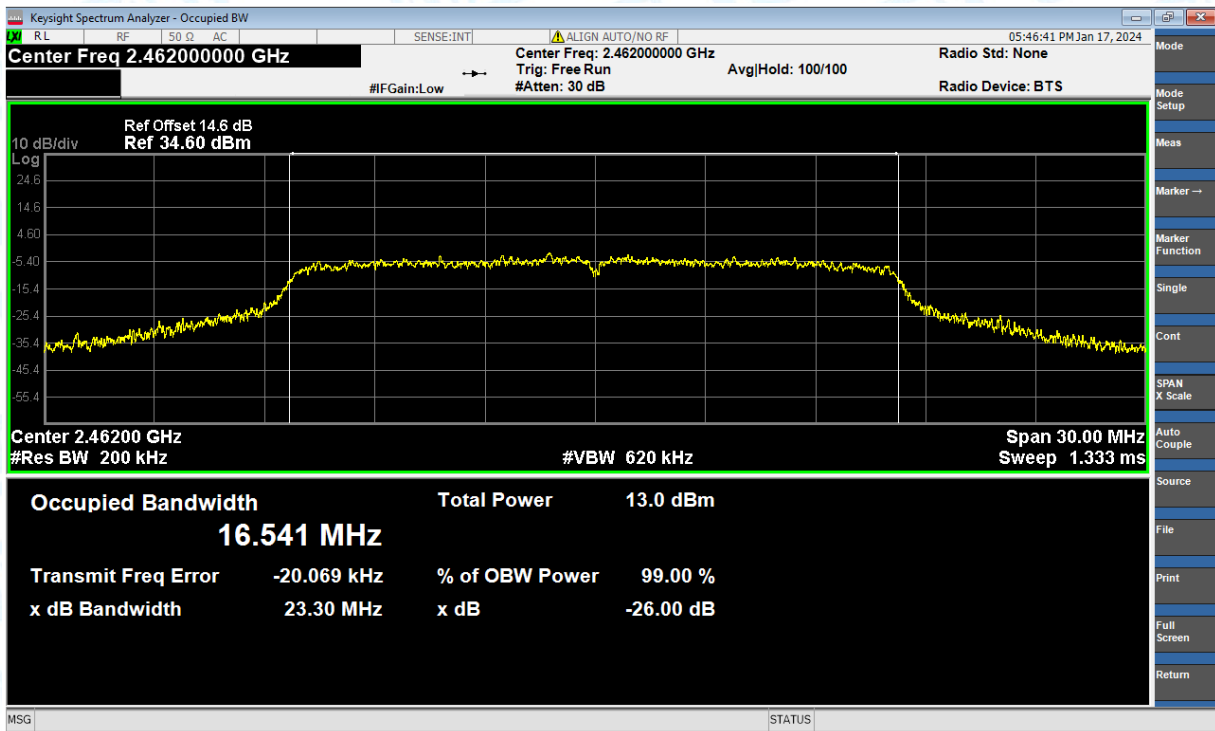
OBW NVNT g 2412MHz Ant1



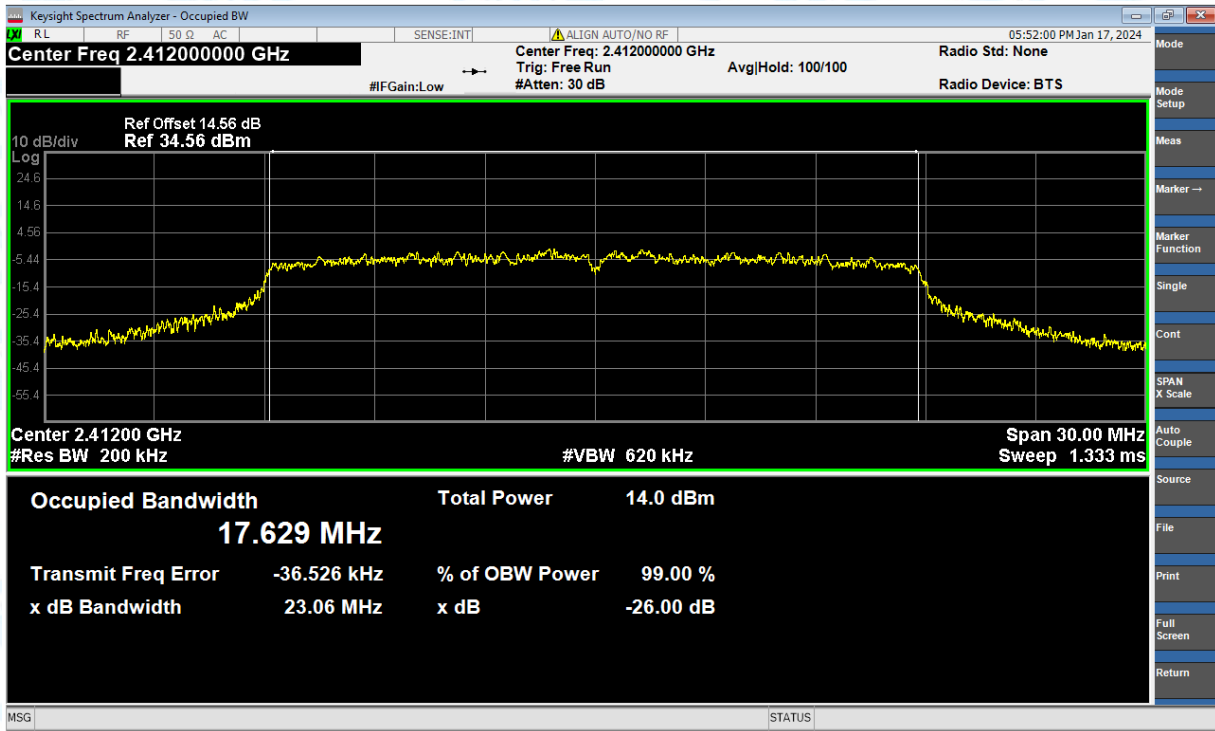
OBW NVNT g 2437MHz Ant1



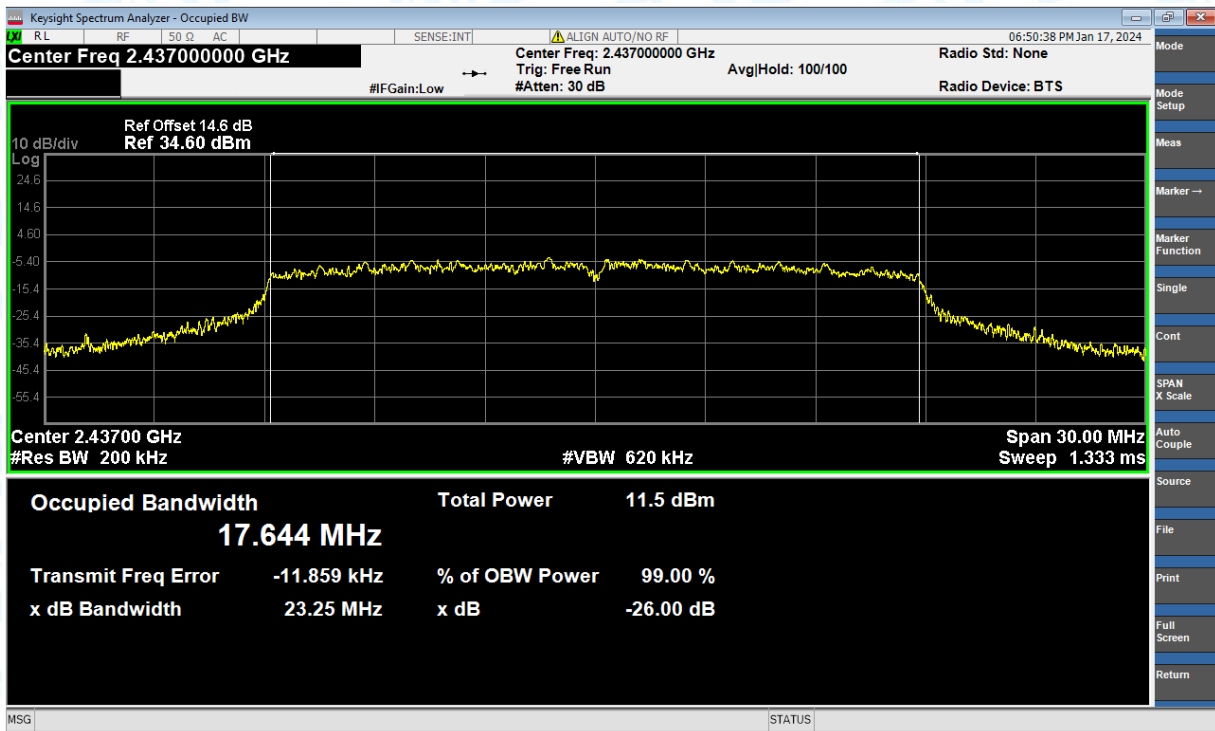
OBW NVNT g 2462MHz Ant1



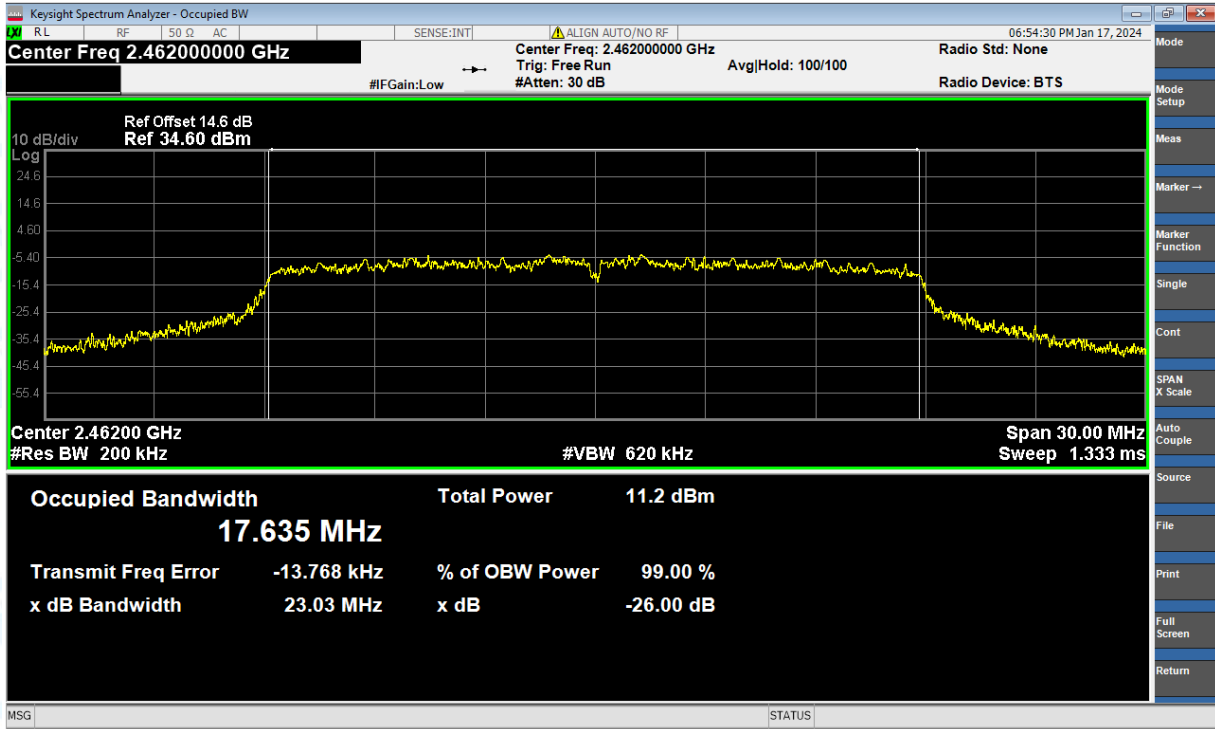
OBW NVNT n(HT20) 2412MHz Ant1



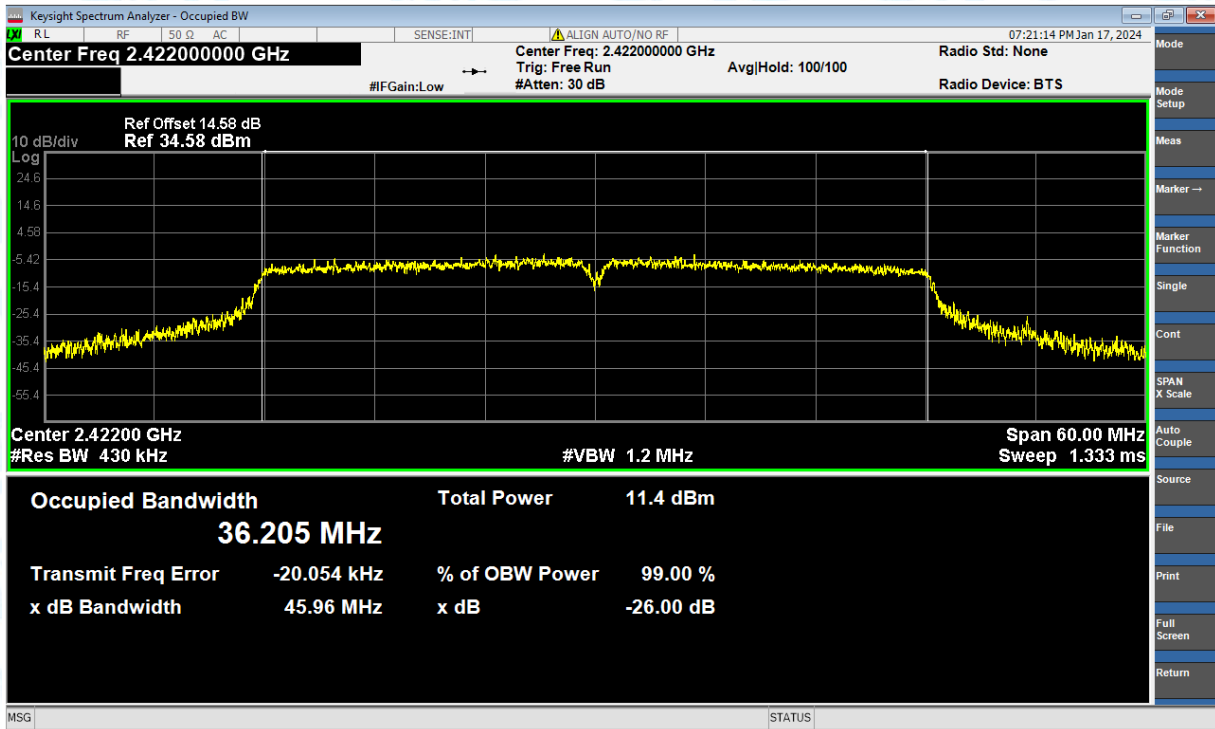
OBW NVNT n(HT20) 2437MHz Ant1



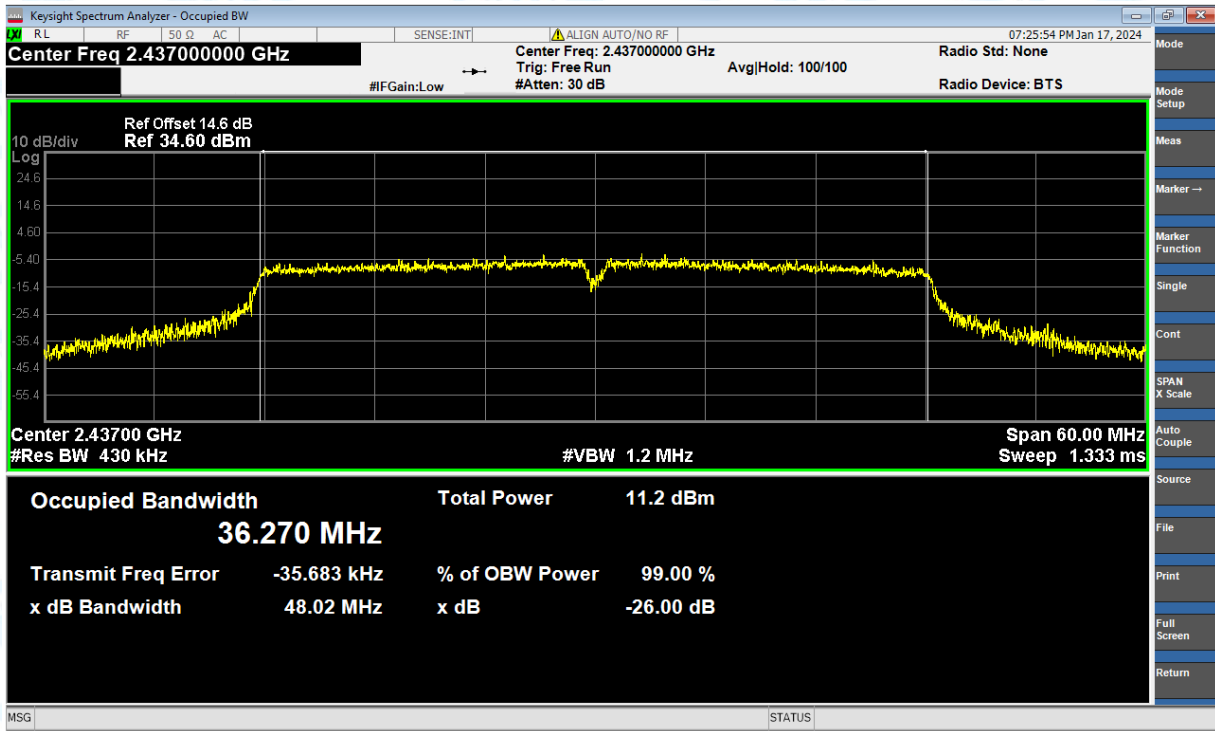
OBW NVNT n(HT20) 2462MHz Ant1



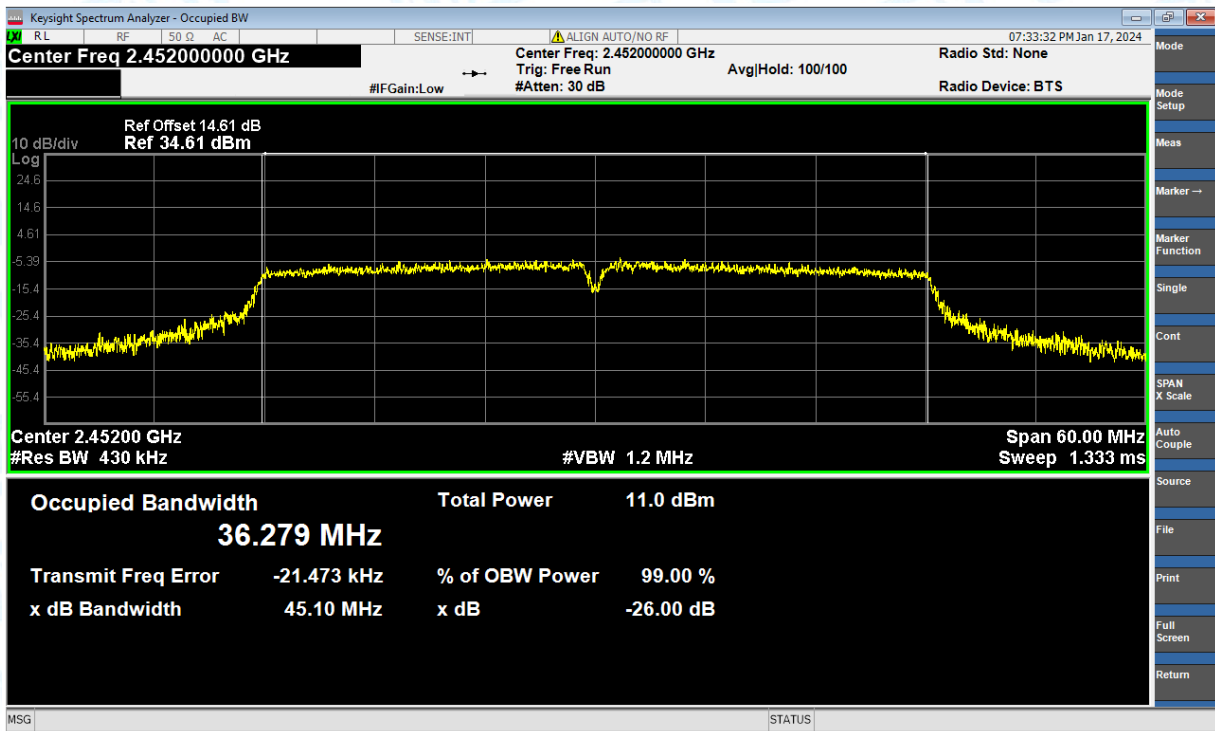
OBW NVNT n(HT40) 2422MHz Ant1



OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



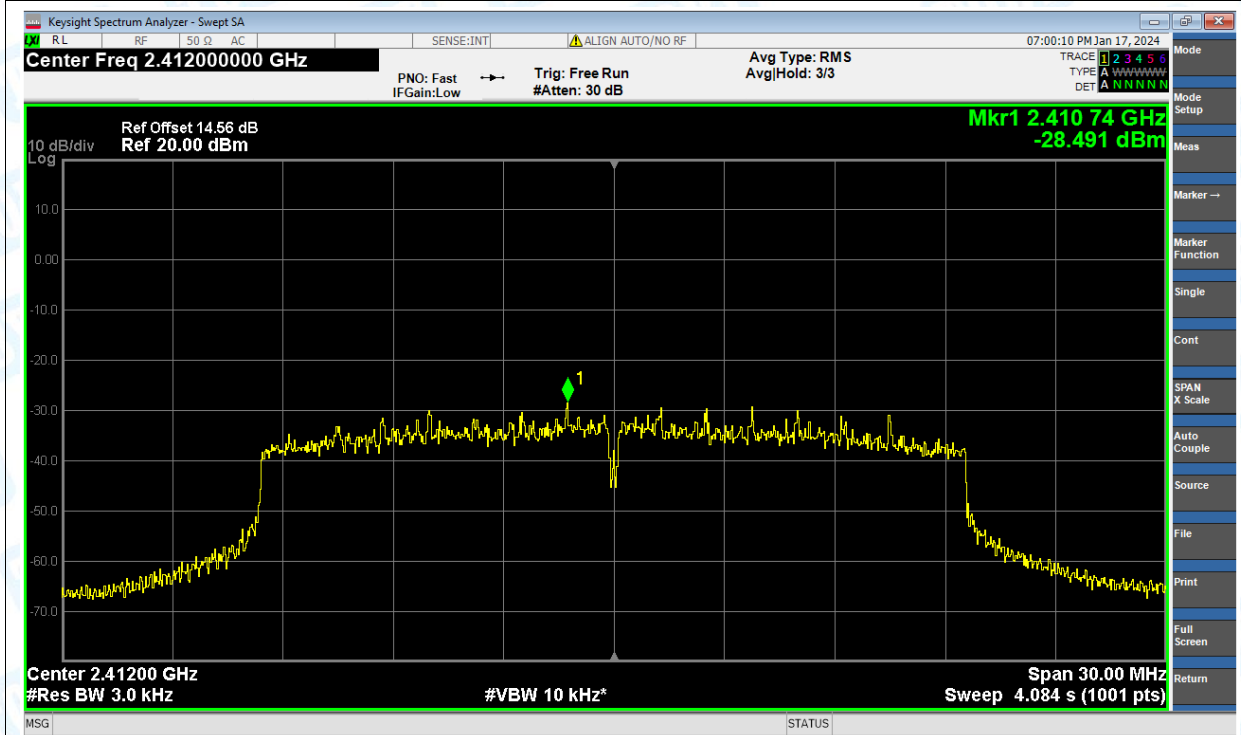


## Maximum Power Spectral Density Level

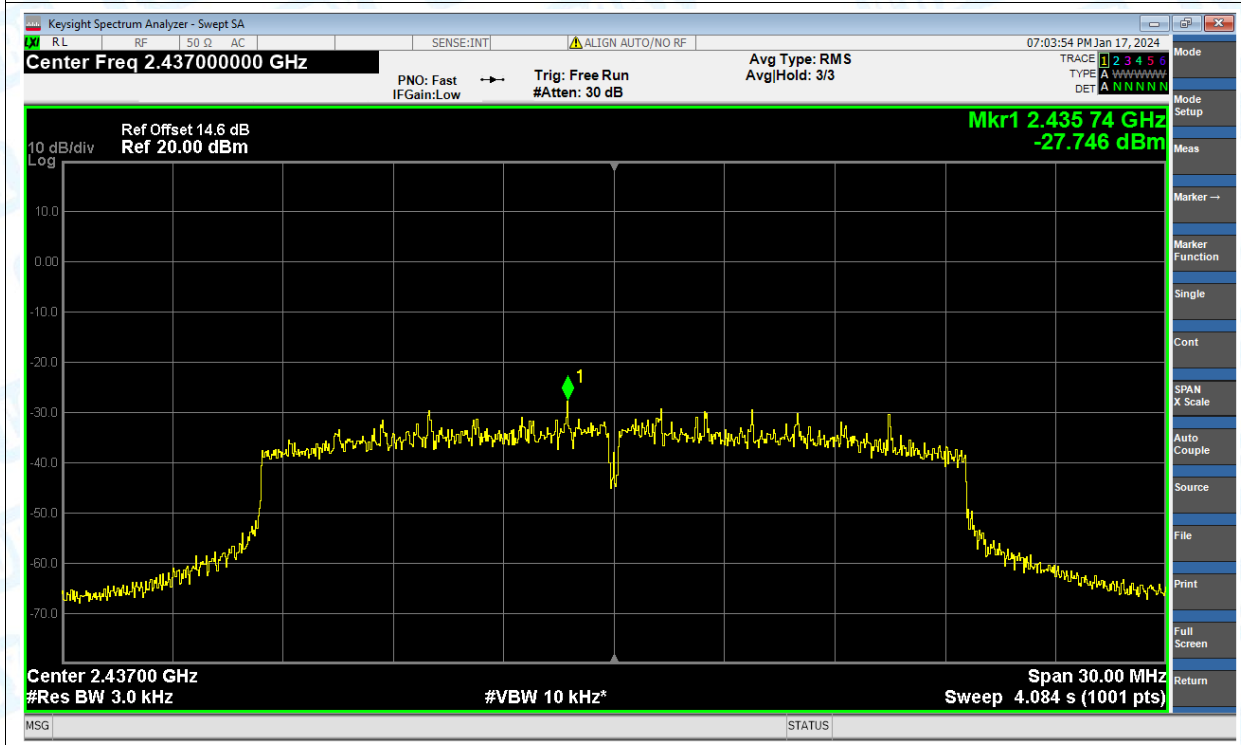
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-28.491	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-27.746	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-28.274	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-32.456	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-32.577	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-33.148	8	Pass
NVNT	b	2412	Ant1	-22.973	8	Pass
NVNT	b	2437	Ant1	-23.52	8	Pass
NVNT	b	2462	Ant1	-22.586	8	Pass
NVNT	g	2412	Ant1	-25.677	8	Pass
NVNT	g	2437	Ant1	-25.909	8	Pass
NVNT	g	2462	Ant1	-26.488	8	Pass
NVNT	n(HT20)	2412	Ant1	-25.954	8	Pass
NVNT	n(HT20)	2437	Ant1	-27.816	8	Pass
NVNT	n(HT20)	2462	Ant1	-28.932	8	Pass
NVNT	n(HT40)	2422	Ant1	-31.786	8	Pass
NVNT	n(HT40)	2437	Ant1	-31.864	8	Pass
NVNT	n(HT40)	2452	Ant1	-31.873	8	Pass

Test Graphs

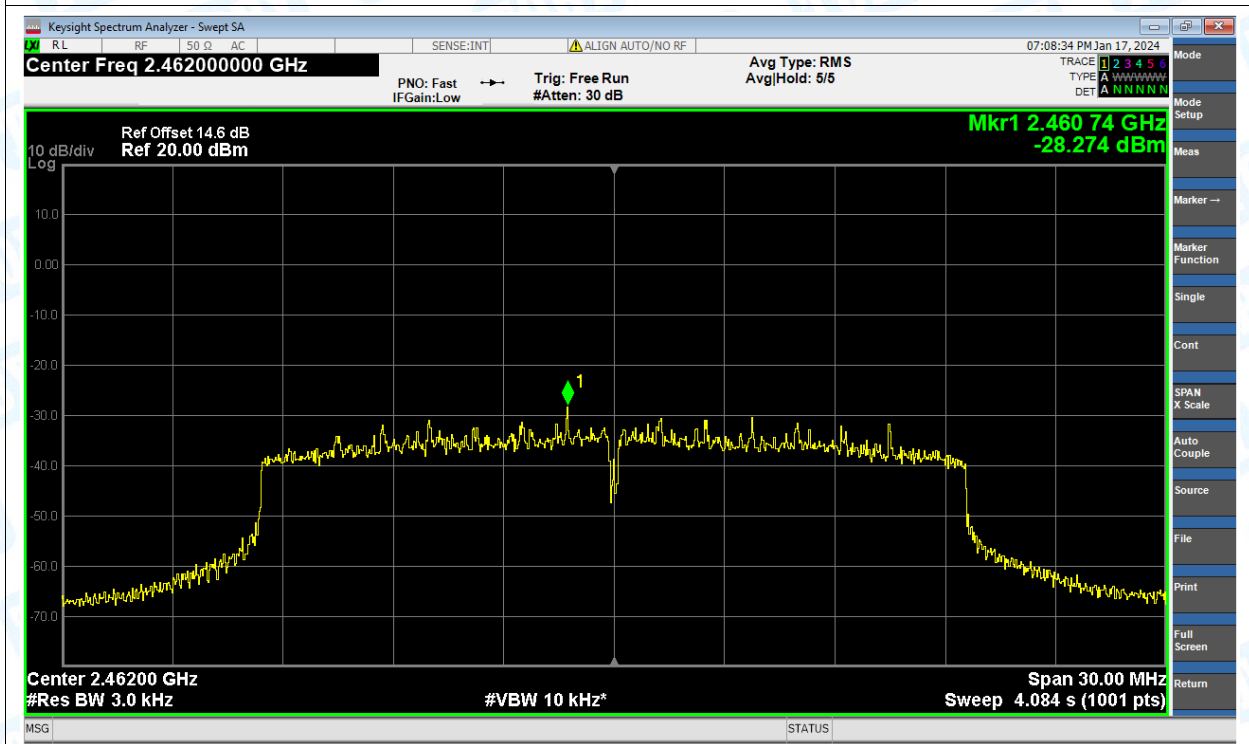
PSD NVNT ax(VHT20) 2412MHz Ant1



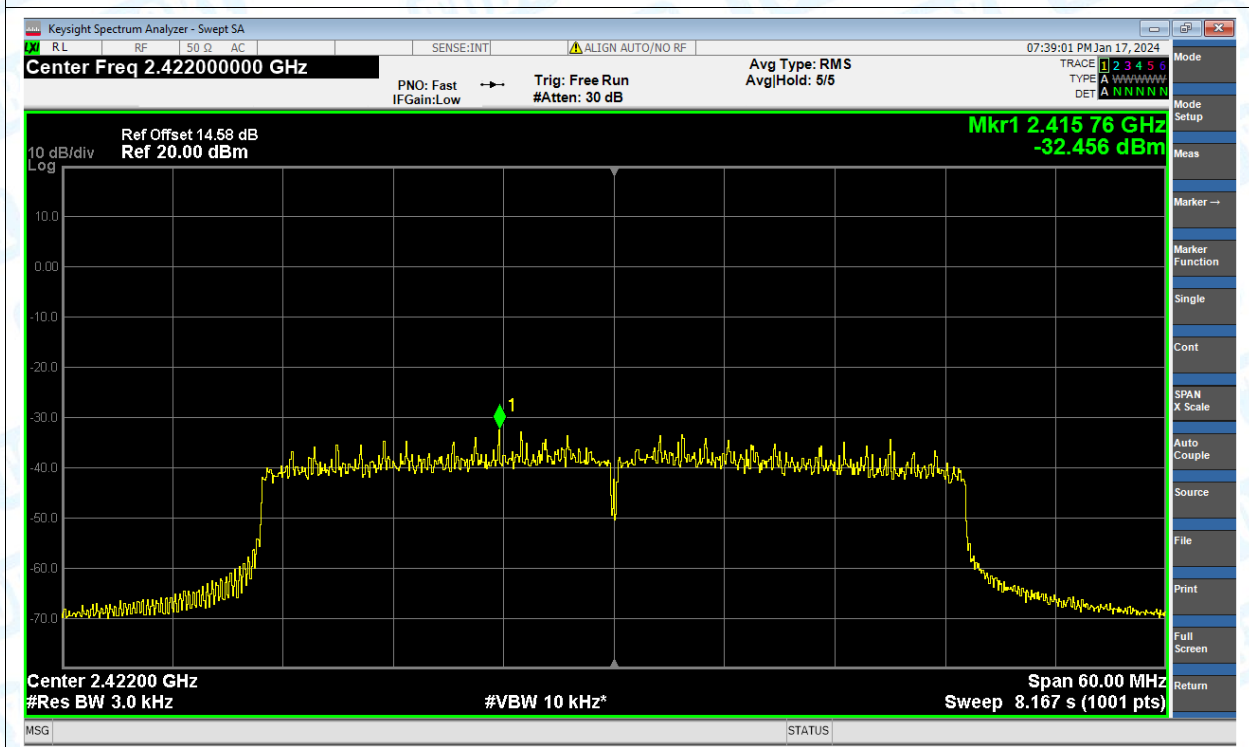
PSD NVNT ax(VHT20) 2437MHz Ant1

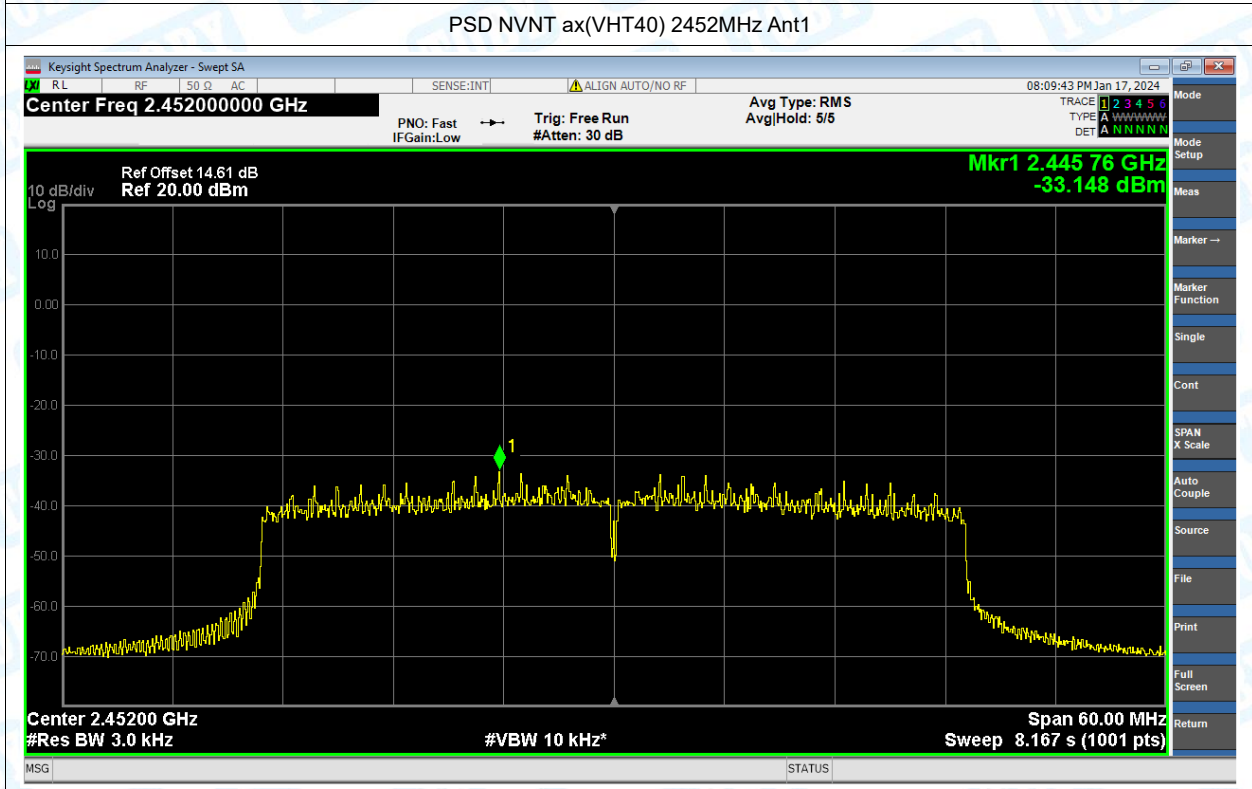
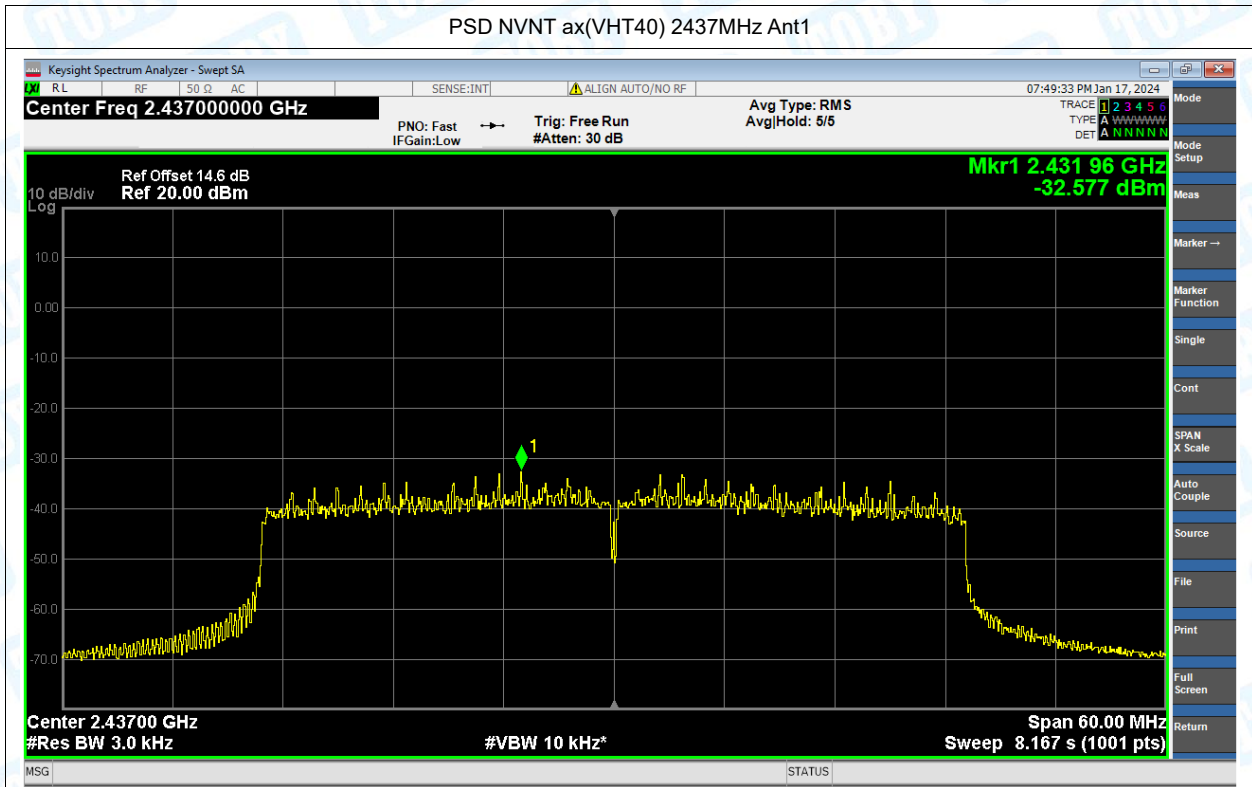


PSD NVNT ax(VHT20) 2462MHz Ant1

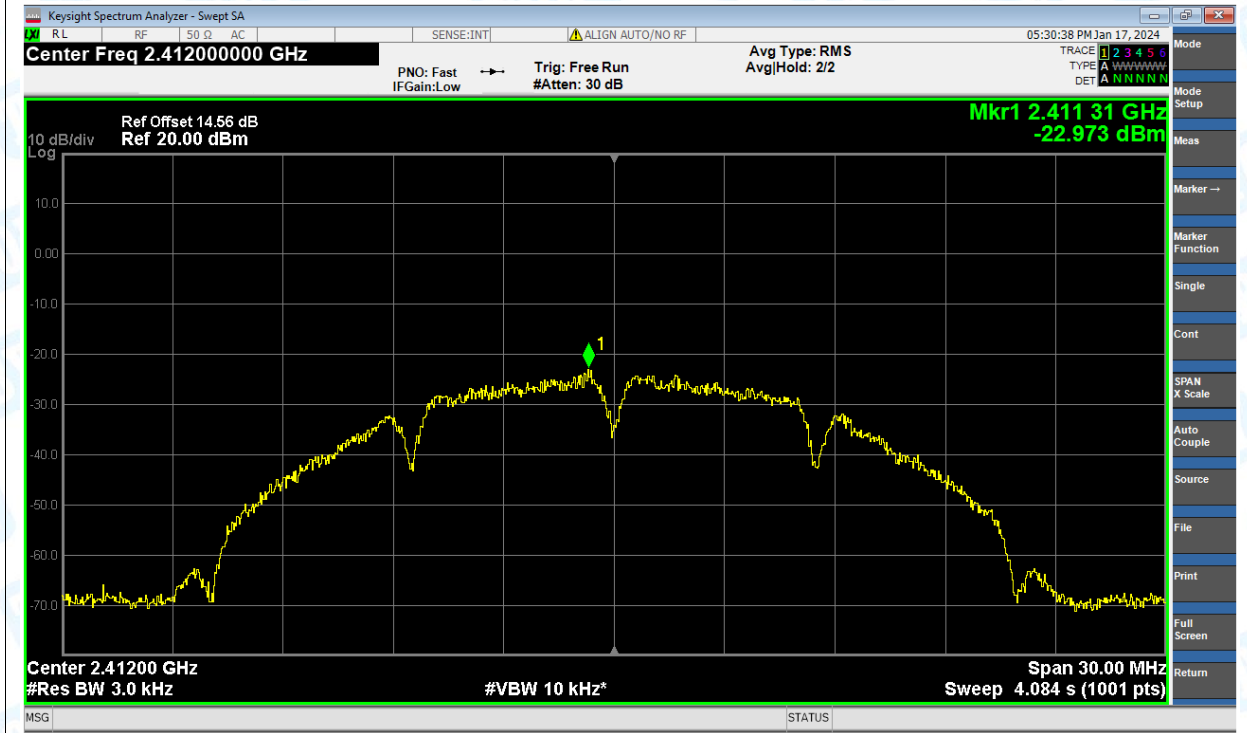


PSD NVNT ax(VHT40) 2422MHz Ant1





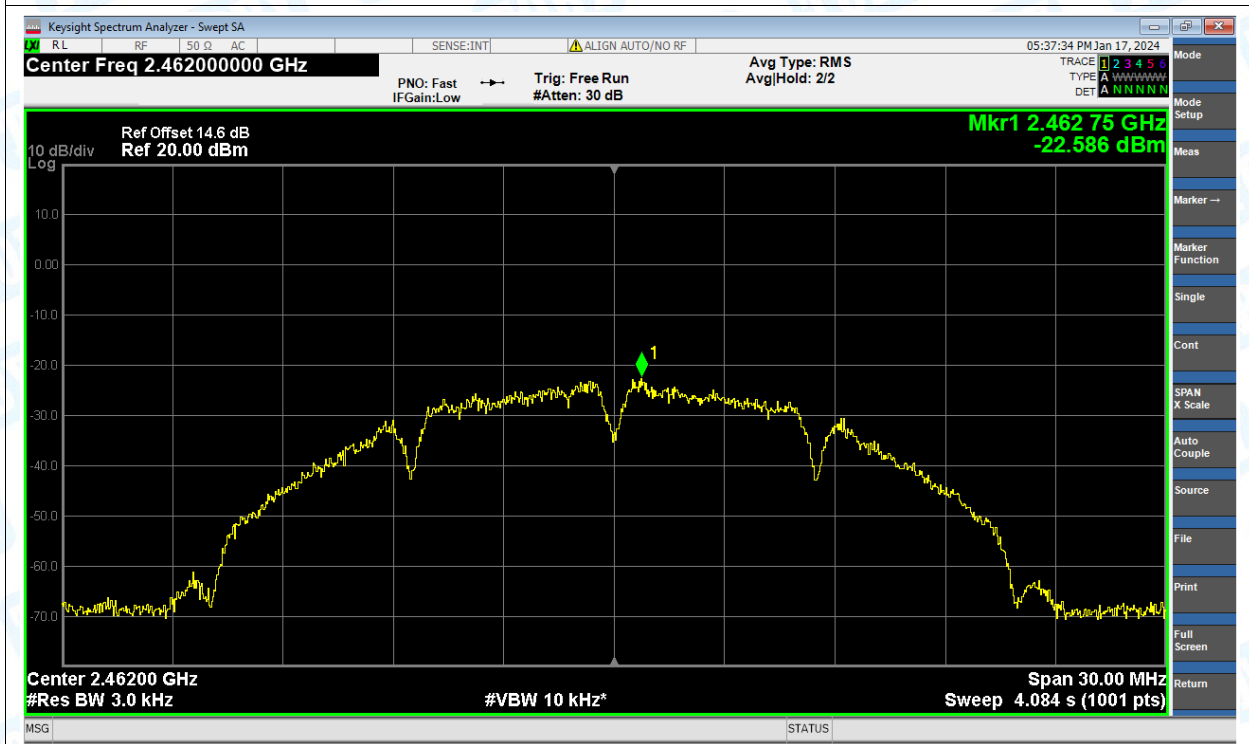
PSD NVNT b 2412MHz Ant1



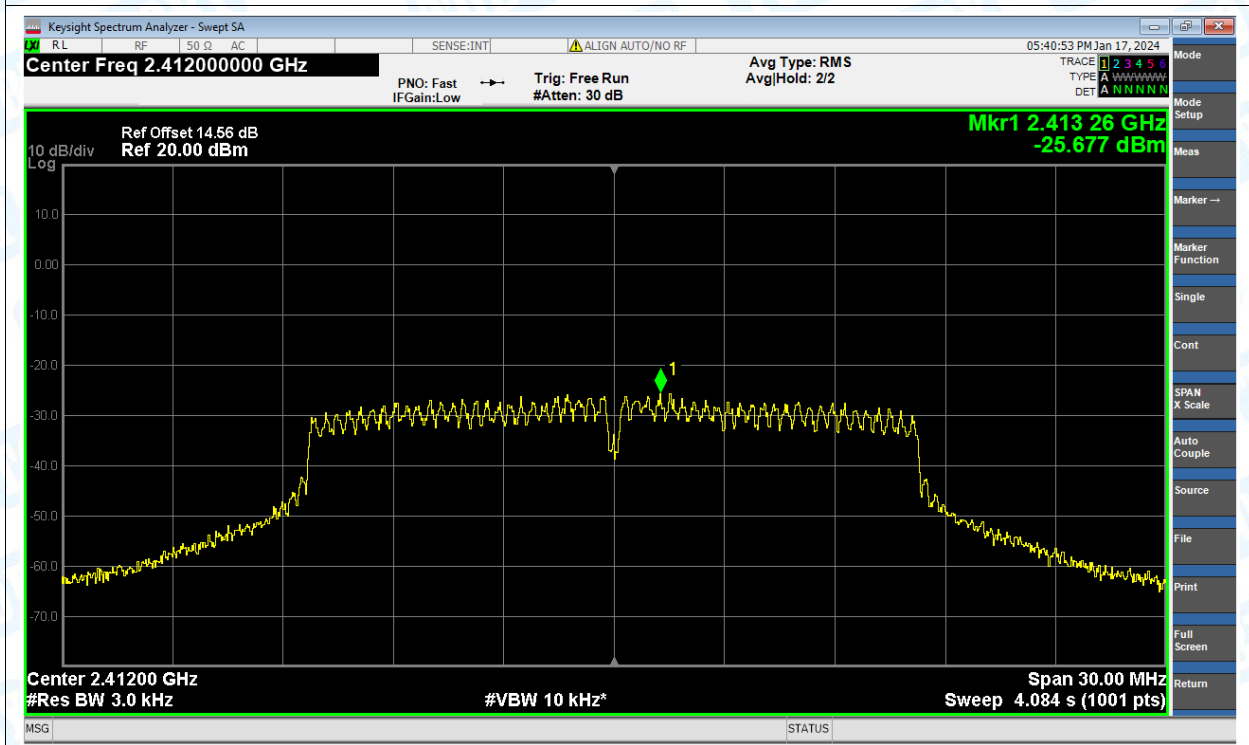
PSD NVNT b 2437MHz Ant1



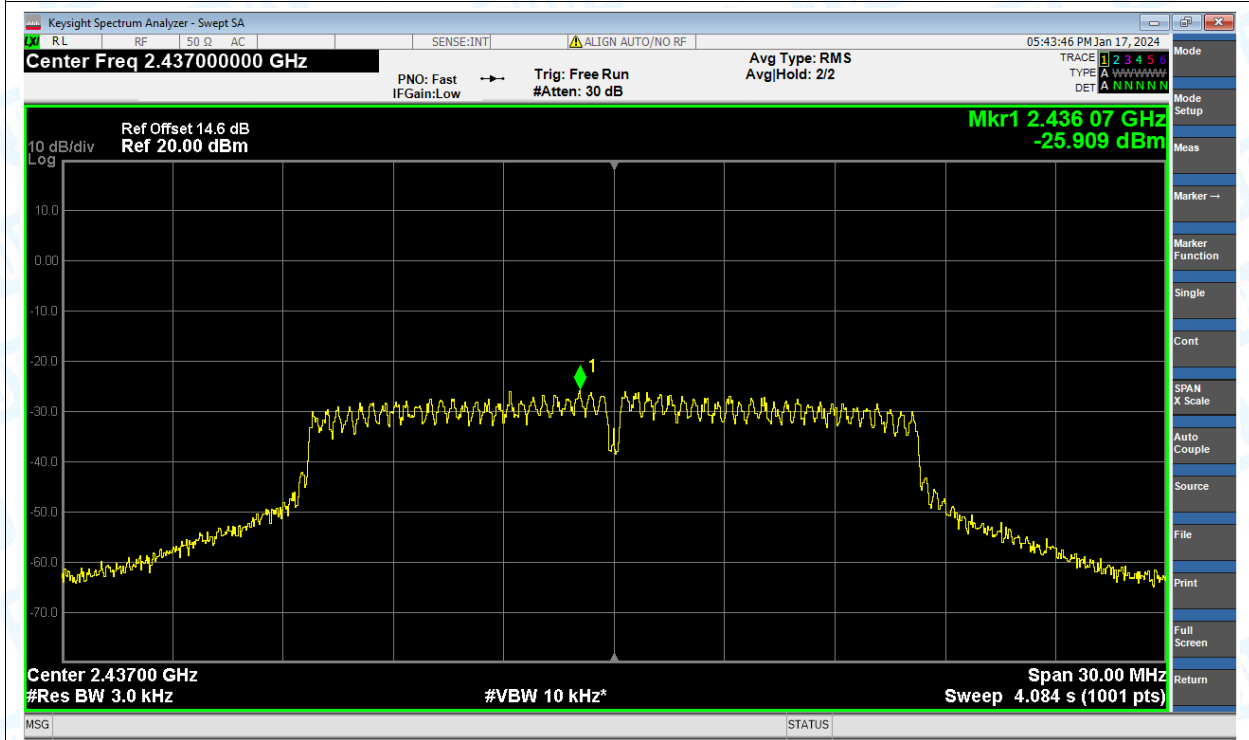
PSD NVNT b 2462MHz Ant1



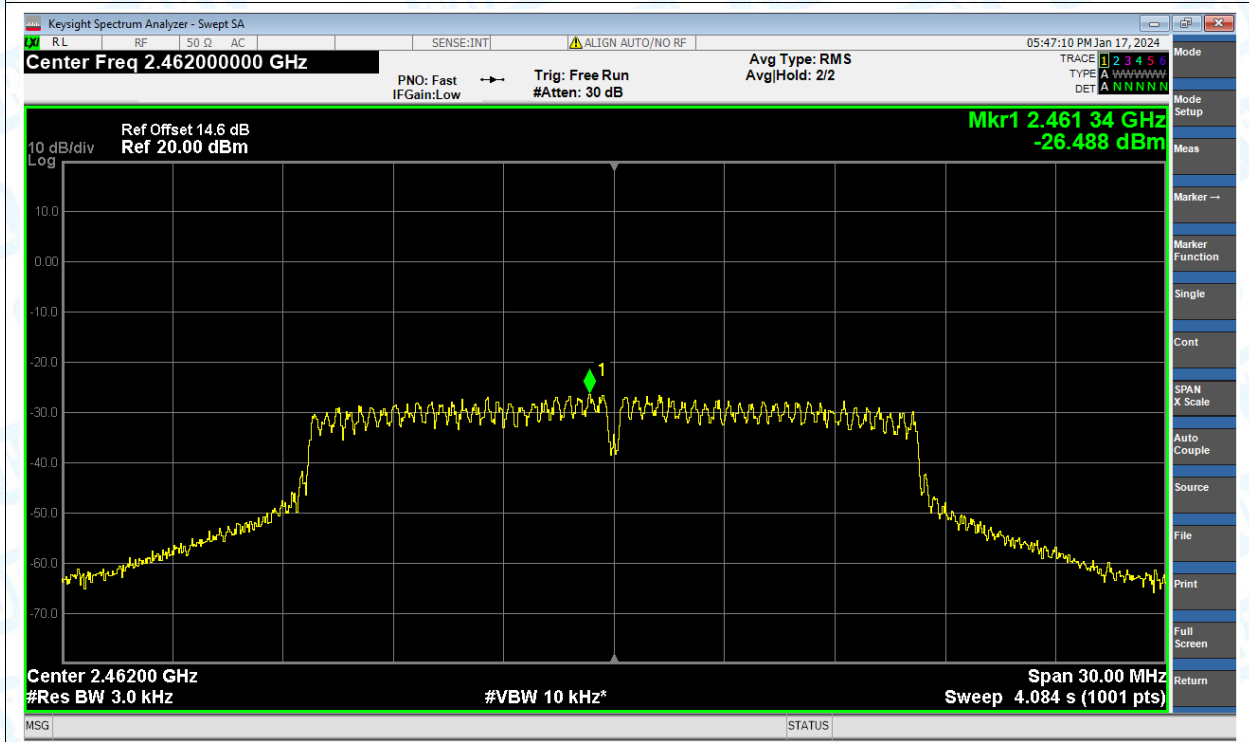
PSD NVNT g 2412MHz Ant1



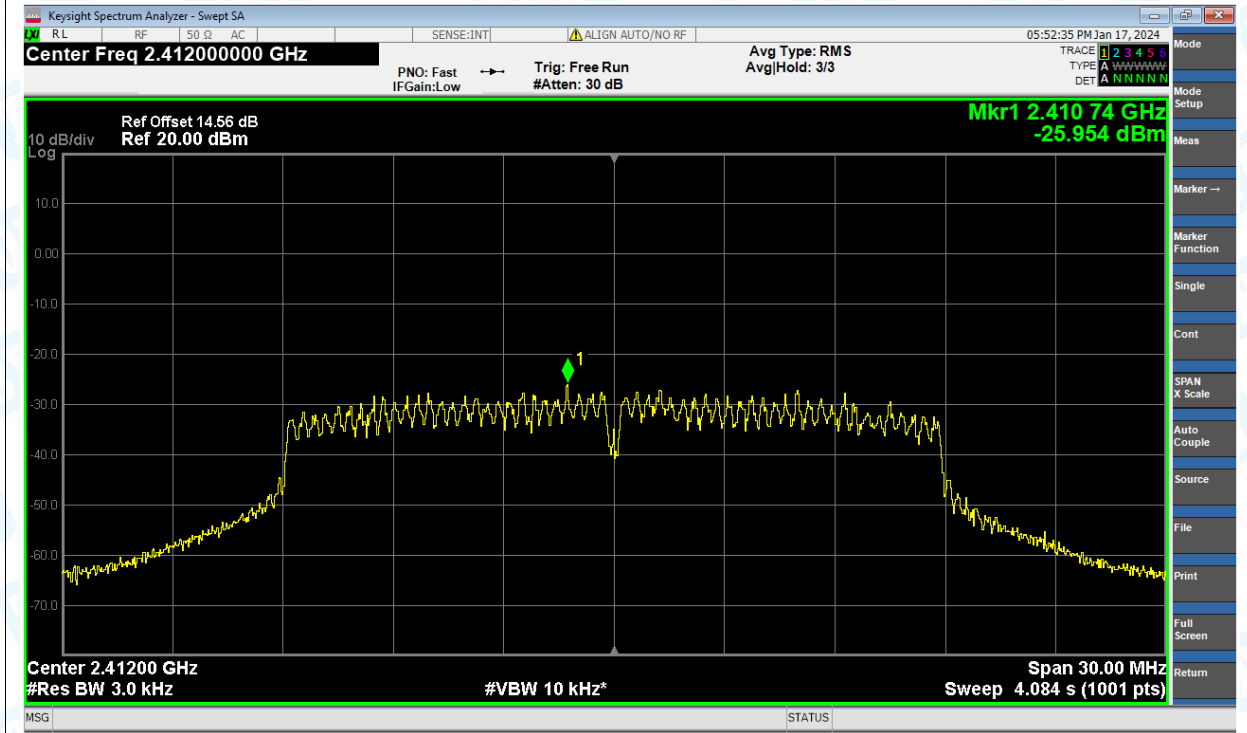
PSD NVNT g 2437MHz Ant1



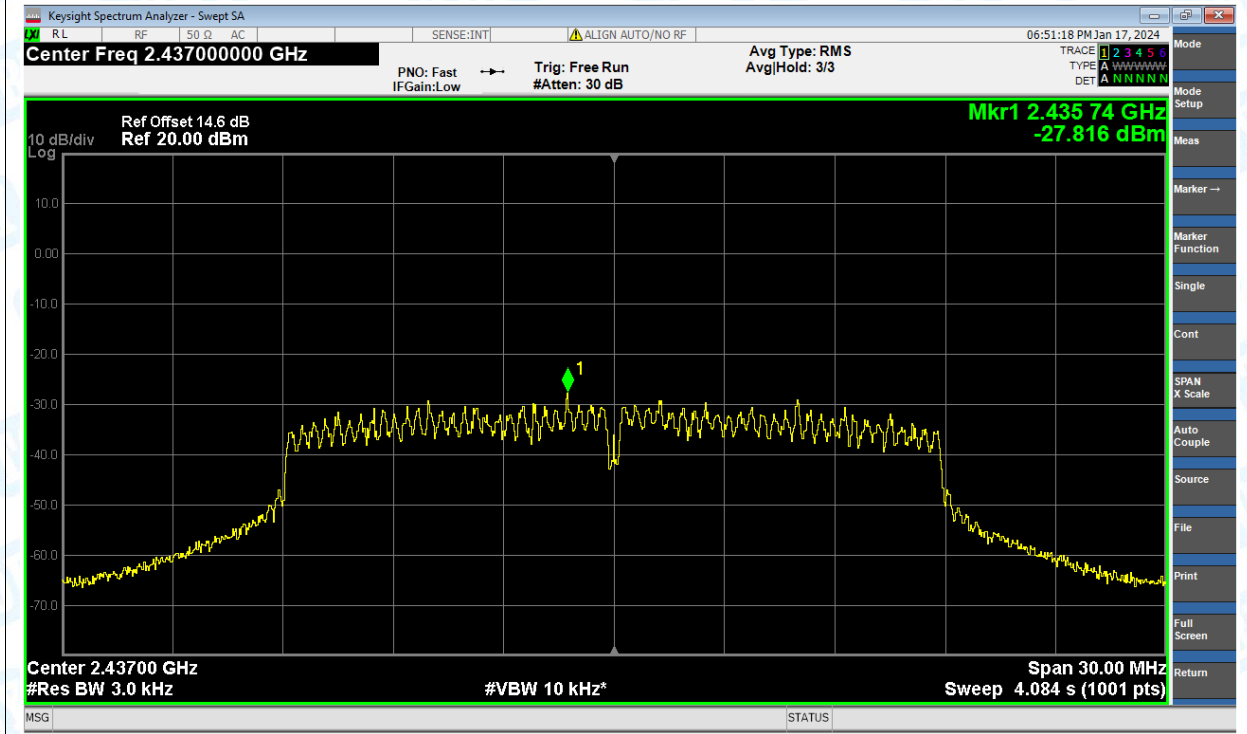
PSD NVNT g 2462MHz Ant1



PSD NVNT n(HT20) 2412MHz Ant1

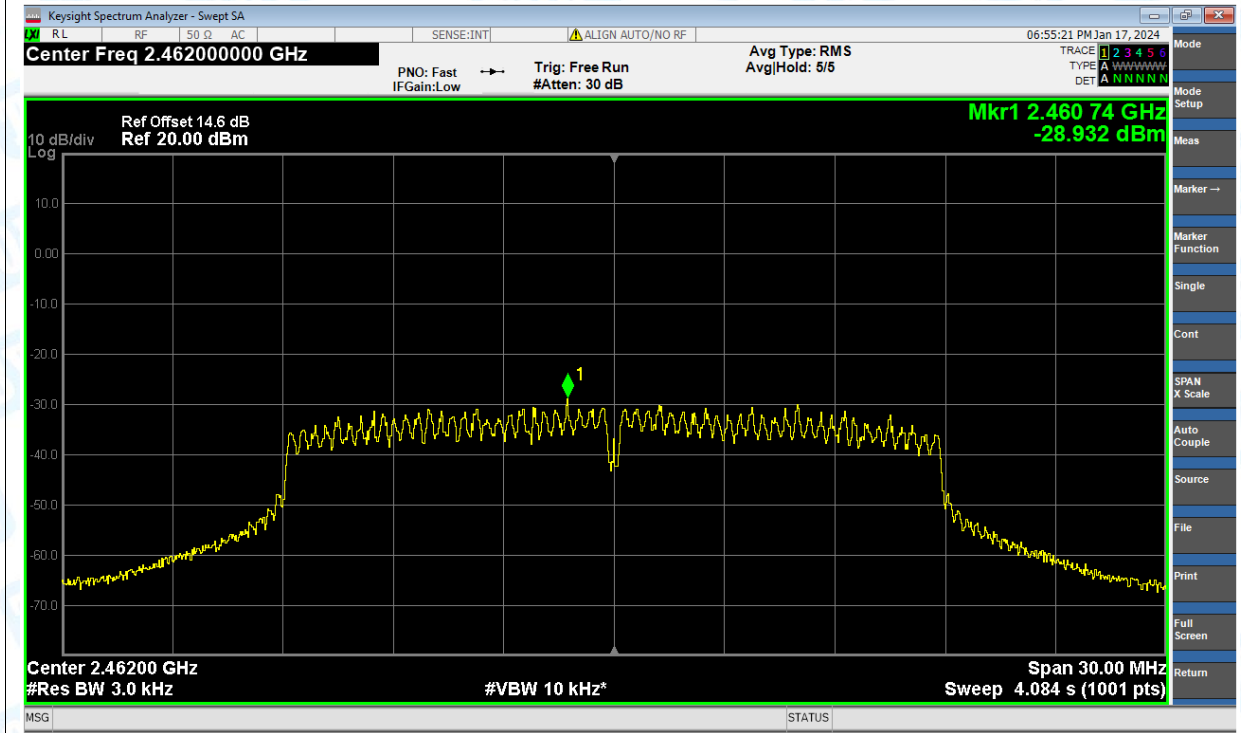


PSD NVNT n(HT20) 2437MHz Ant1

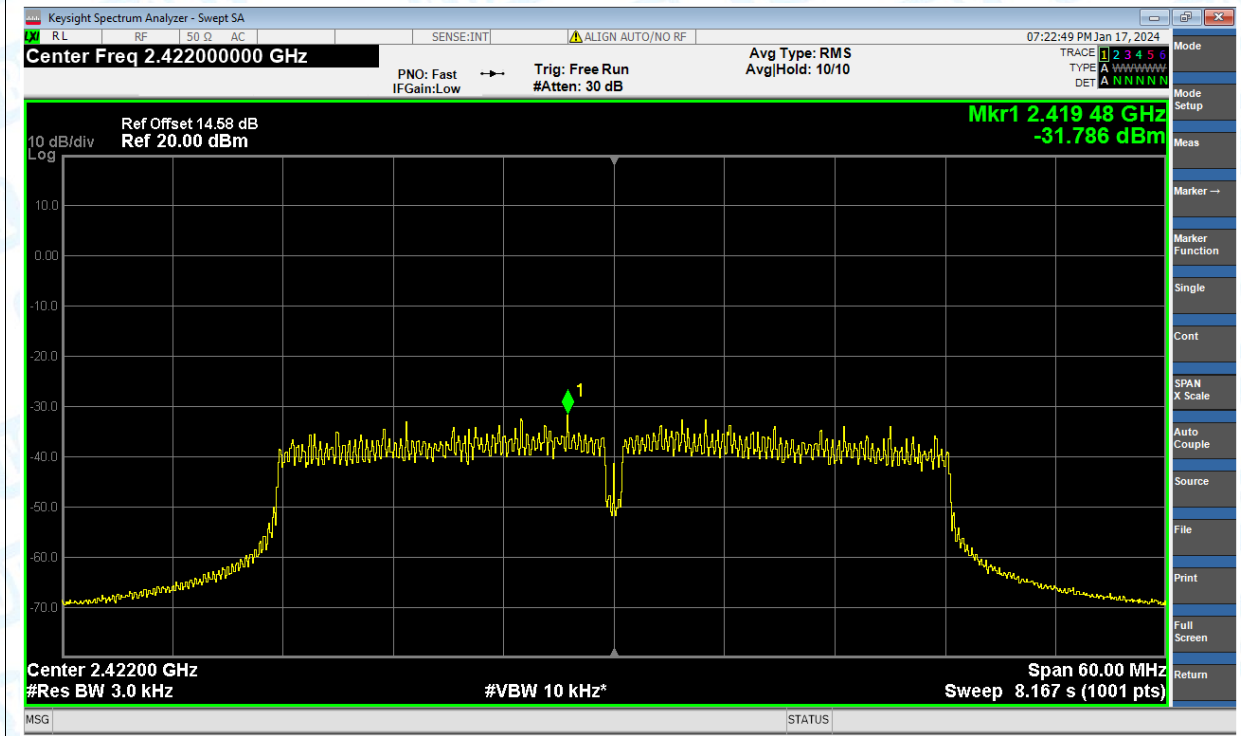




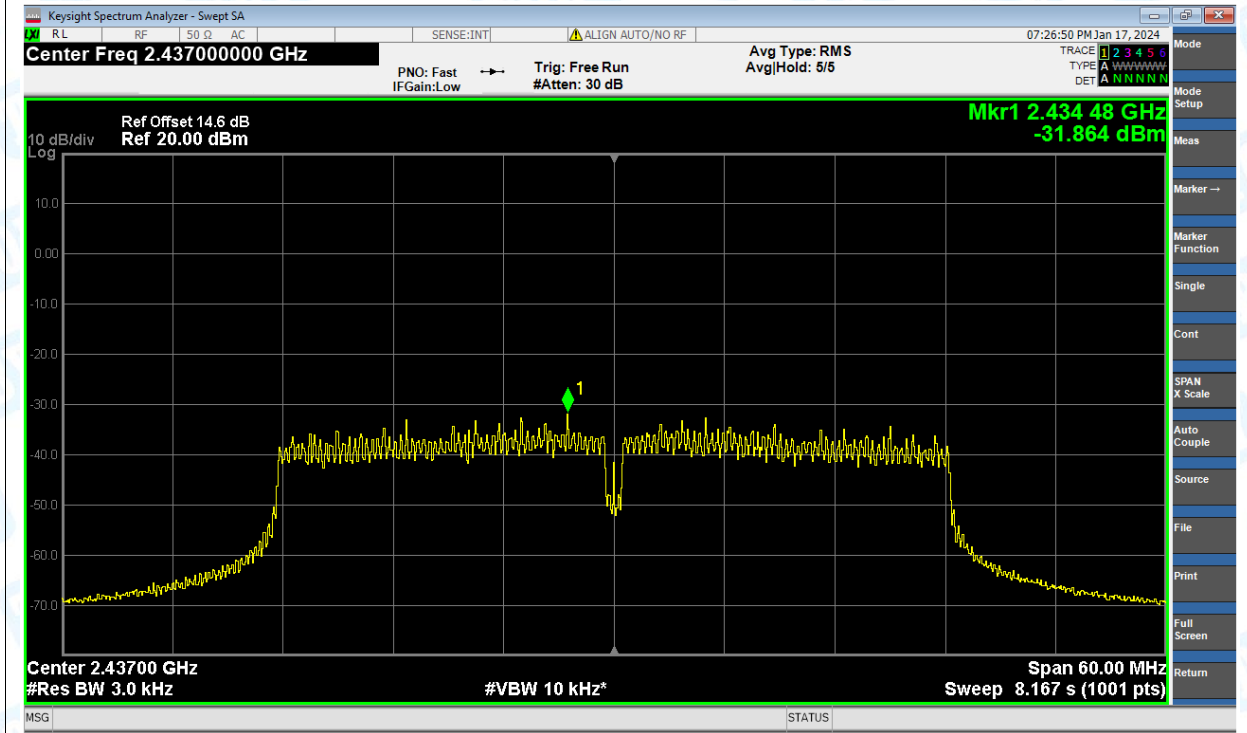
PSD NVNT n(HT20) 2462MHz Ant1



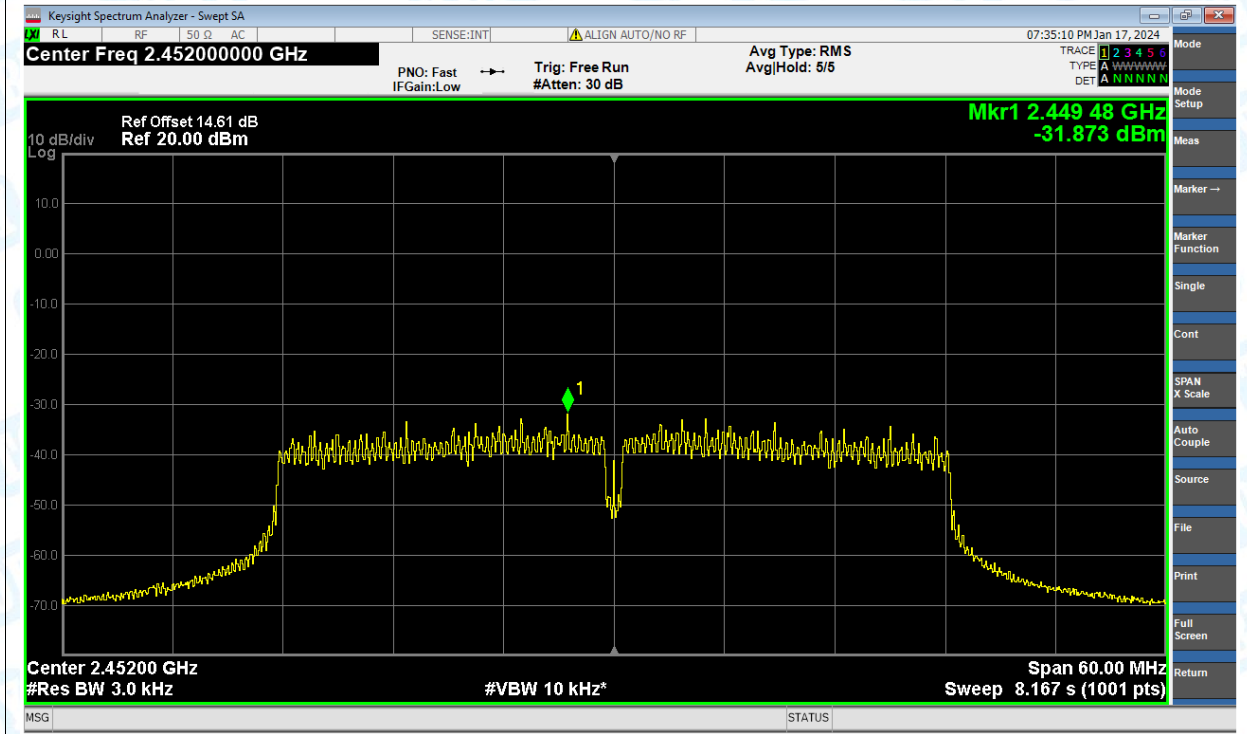
PSD NVNT n(HT40) 2422MHz Ant1



PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1



## Band Edge

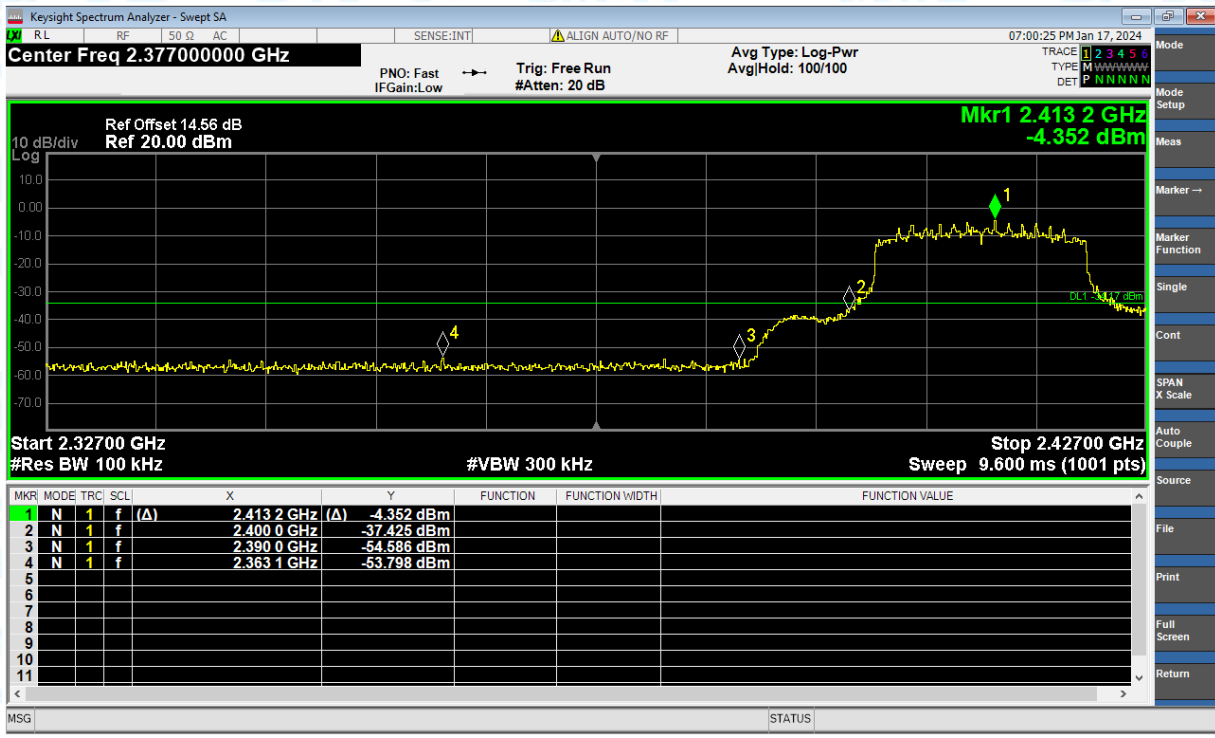
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-49.63	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-52.24	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-37.15	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-40.3	-30	Pass
NVNT	b	2412	Ant1	-53.4	-30	Pass
NVNT	b	2462	Ant1	-54.03	-30	Pass
NVNT	g	2412	Ant1	-50.17	-30	Pass
NVNT	g	2462	Ant1	-51.09	-30	Pass
NVNT	n(HT20)	2412	Ant1	-51.05	-30	Pass
NVNT	n(HT20)	2462	Ant1	-51.55	-30	Pass
NVNT	n(HT40)	2422	Ant1	-41.68	-30	Pass
NVNT	n(HT40)	2452	Ant1	-40.69	-30	Pass

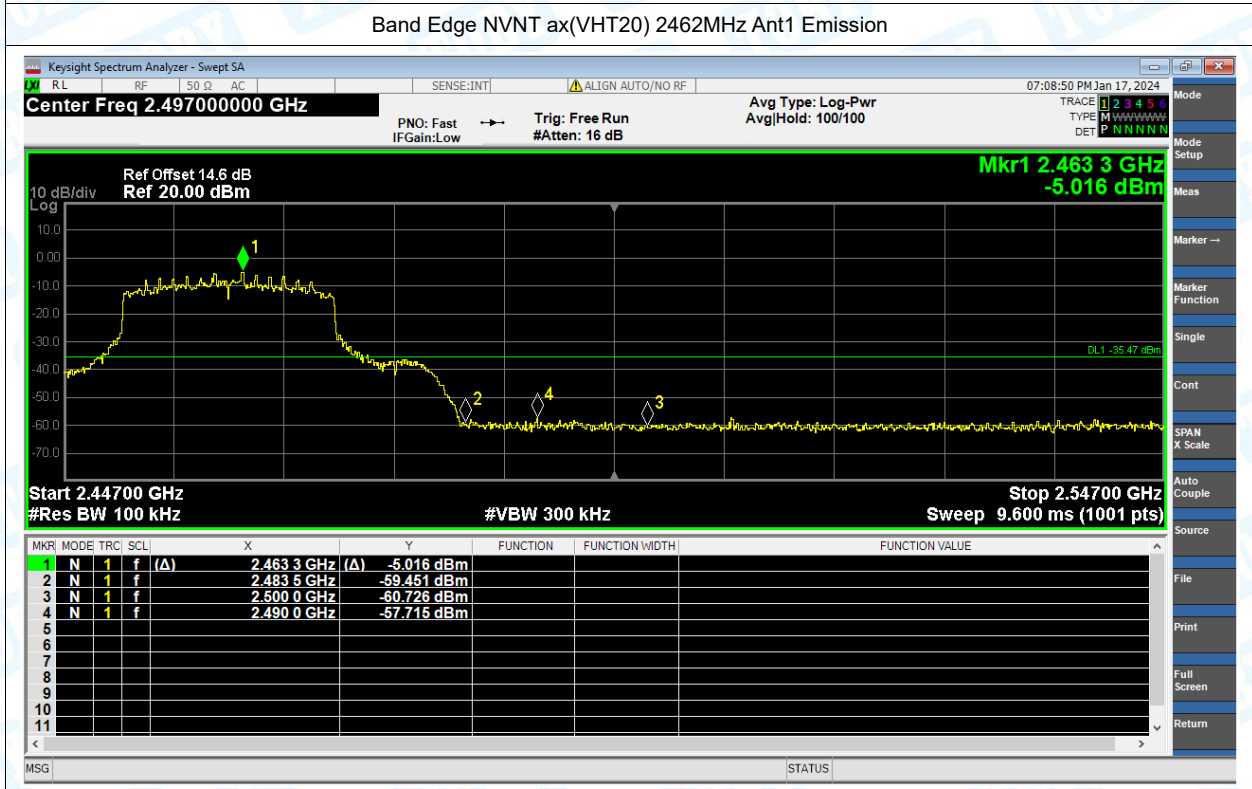
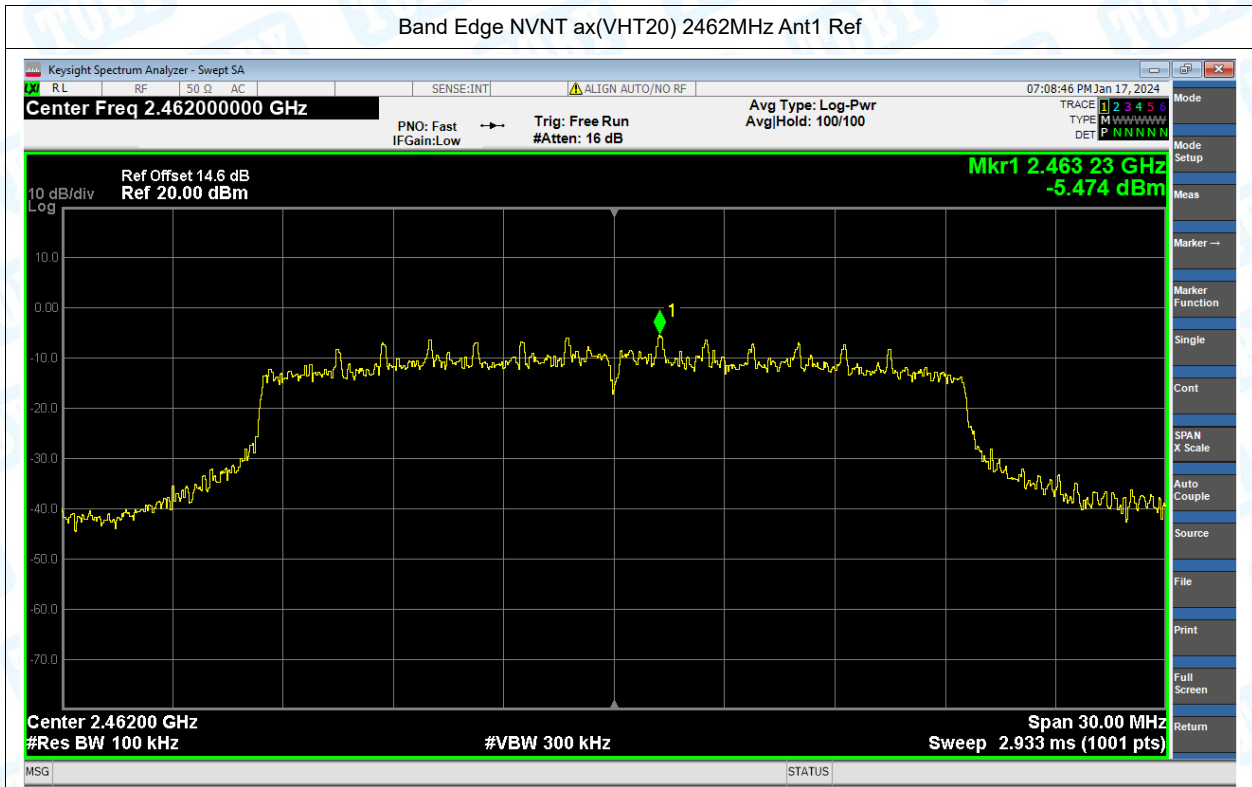
Test Graphs

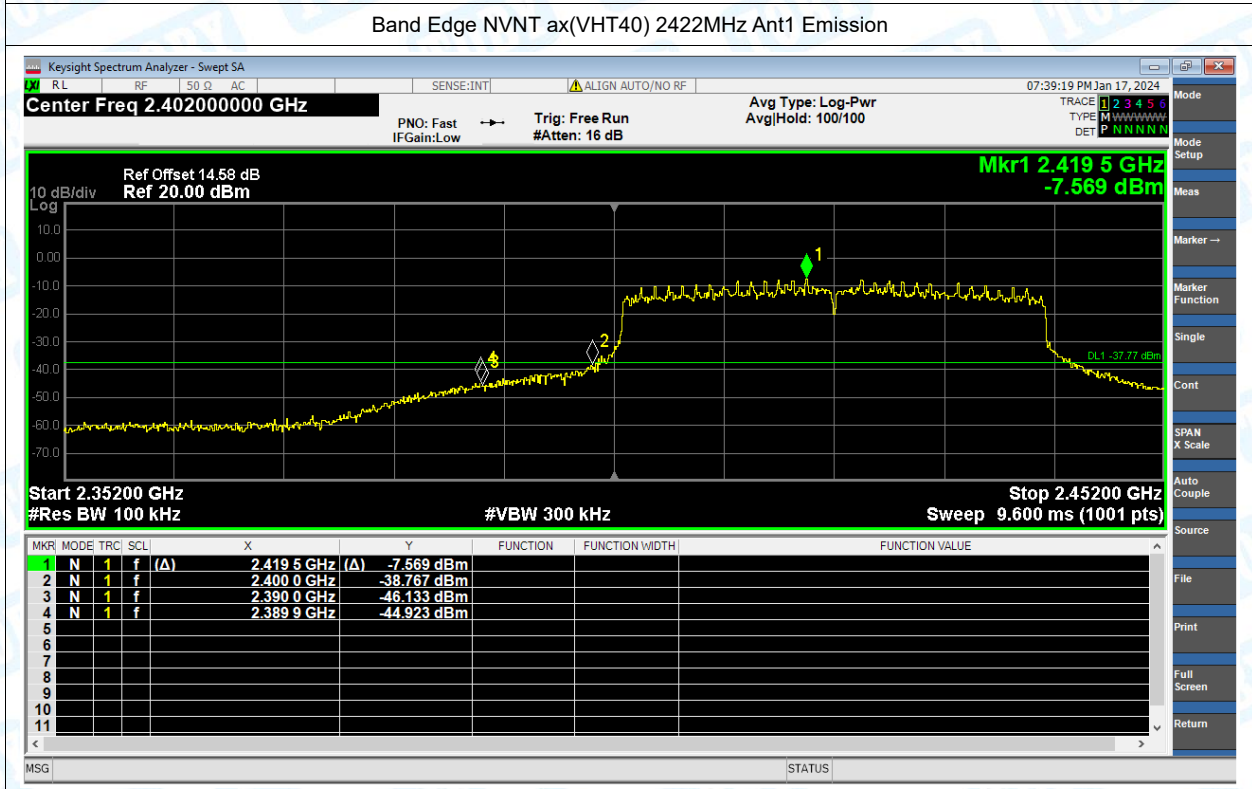
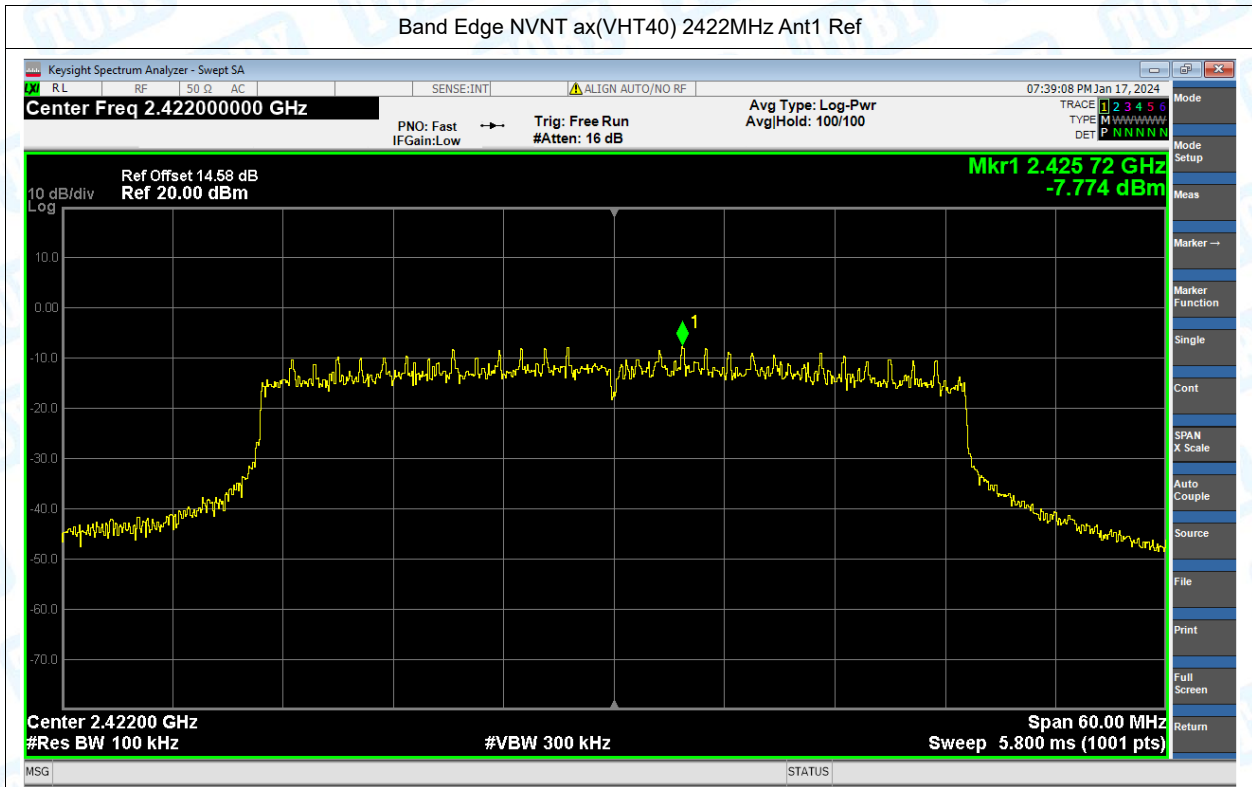
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref

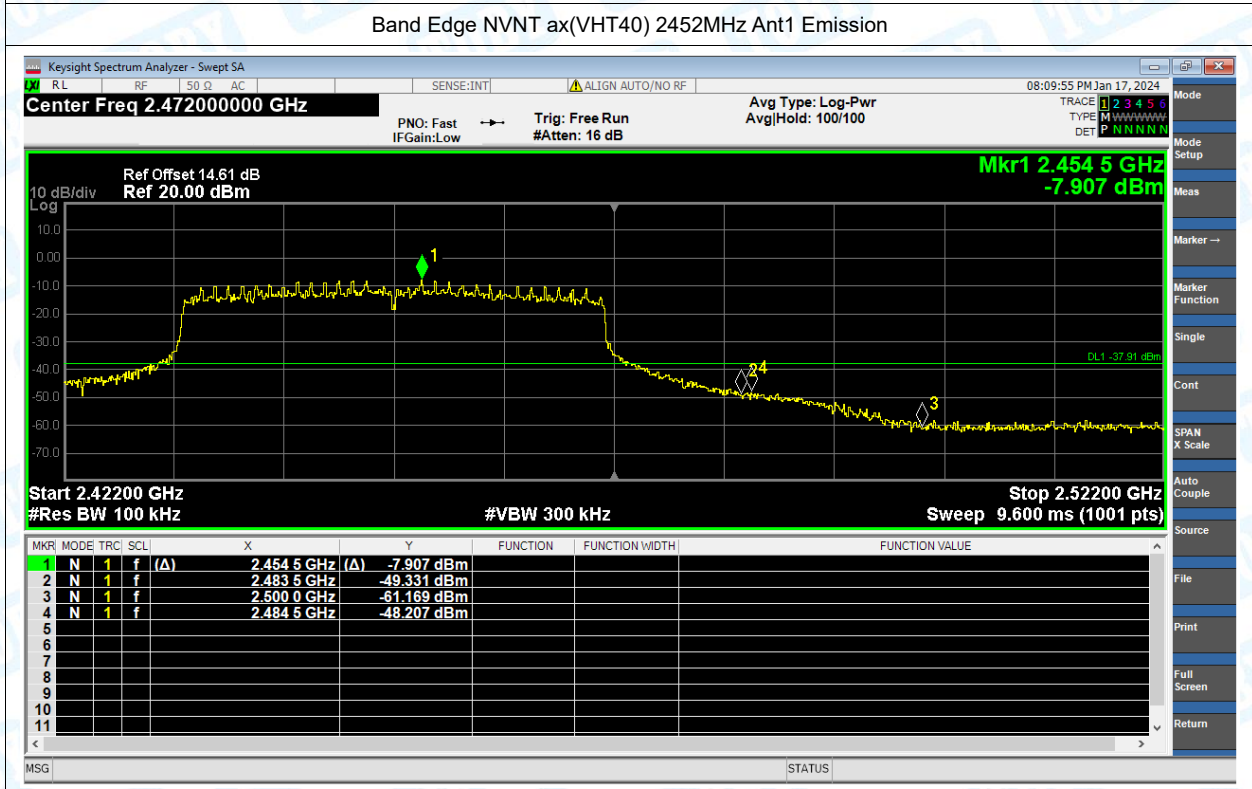
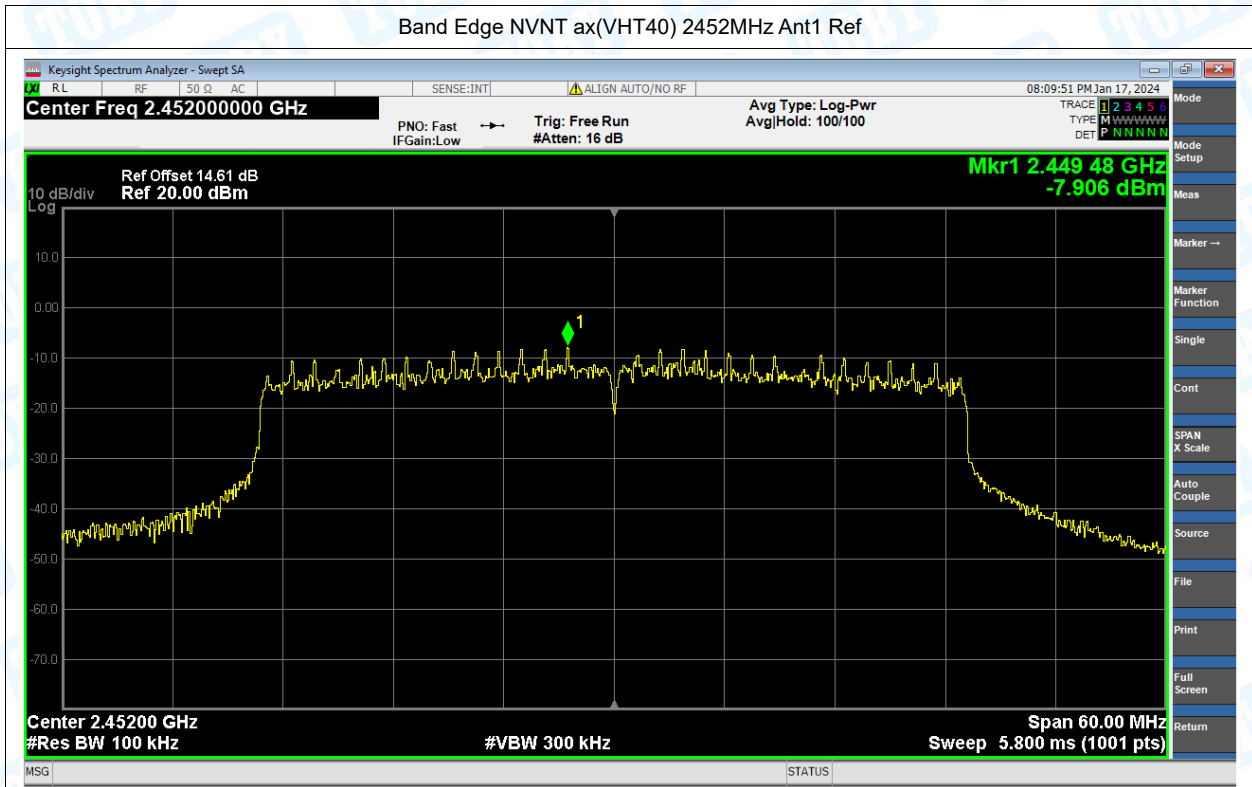


Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission

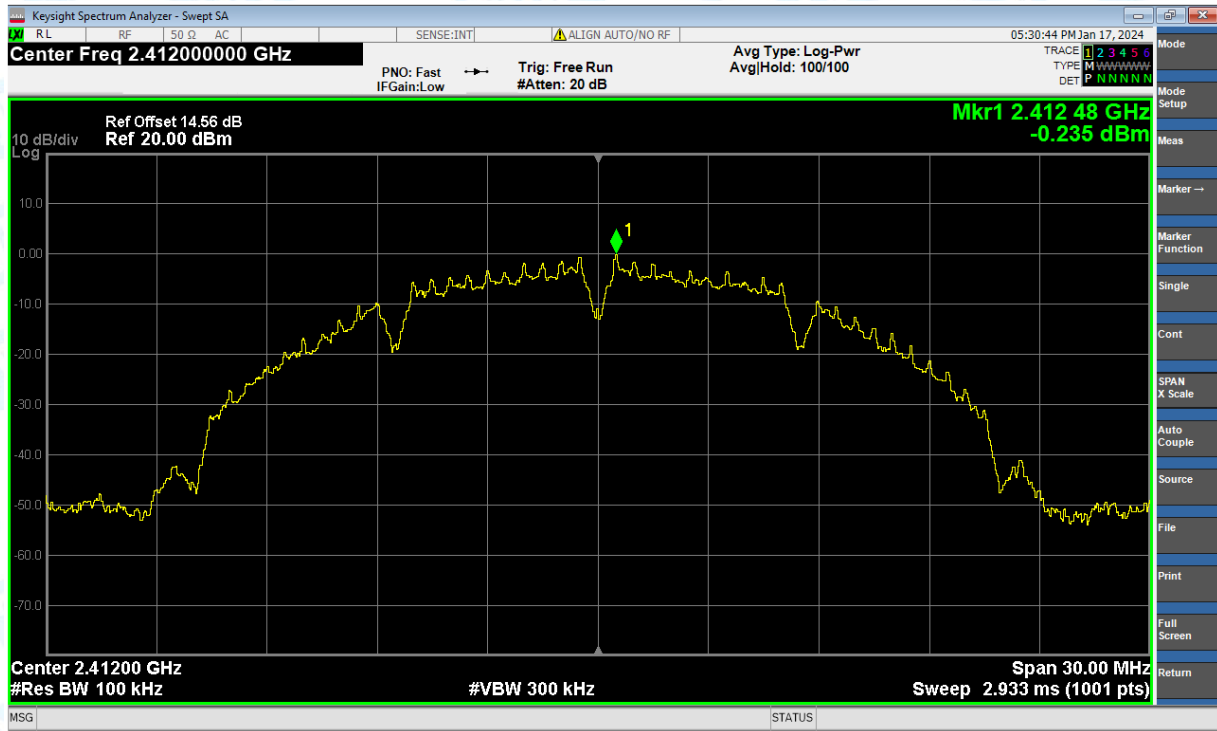




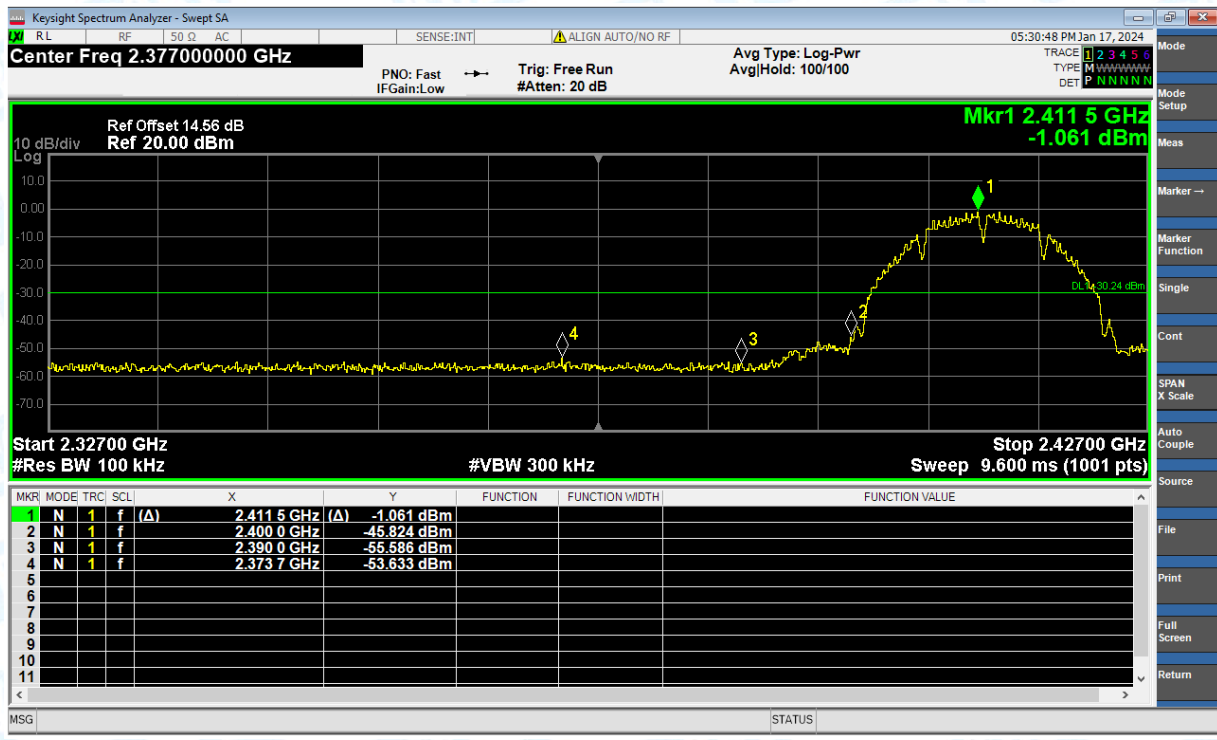




Band Edge NVNT b 2412MHz Ant1 Ref

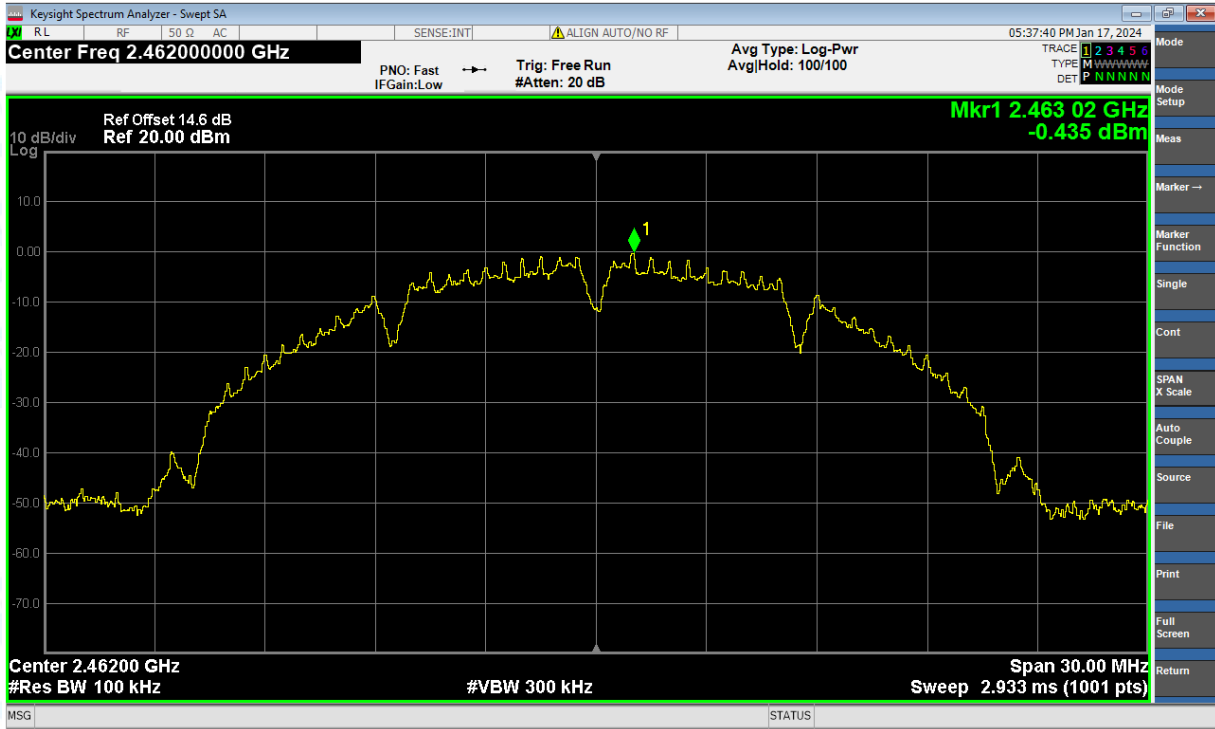


Band Edge NVNT b 2412MHz Ant1 Emission

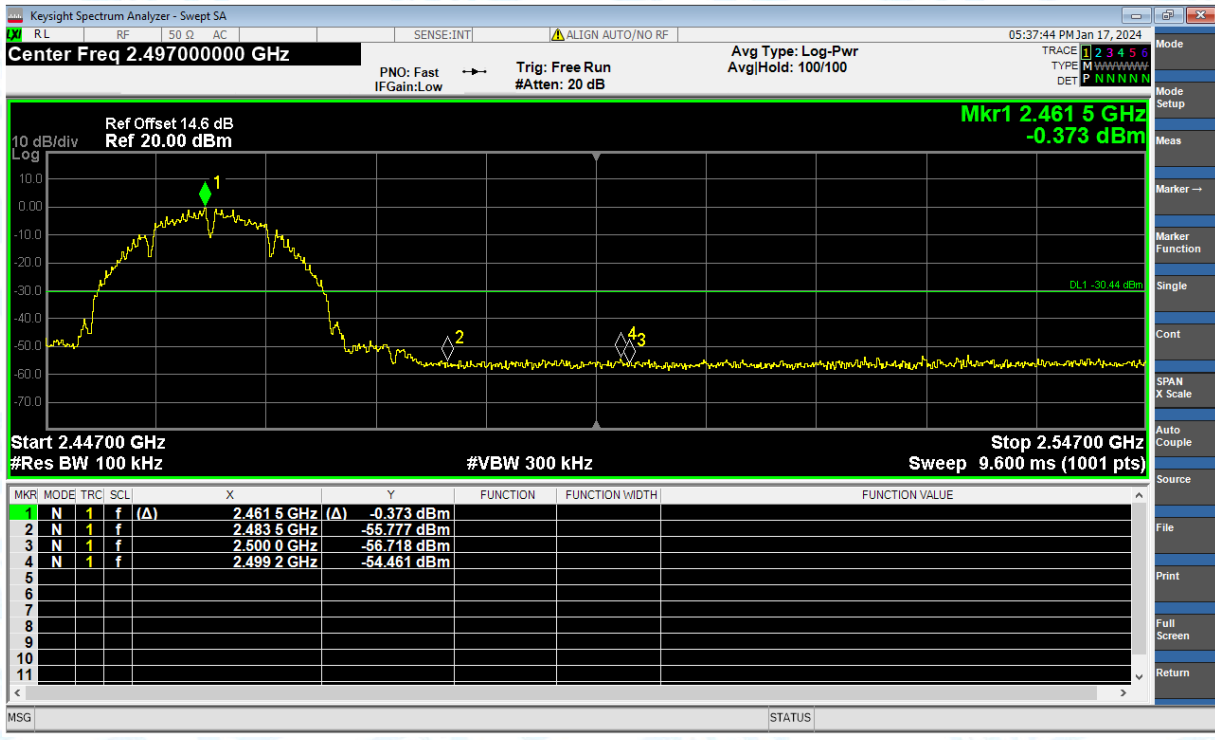




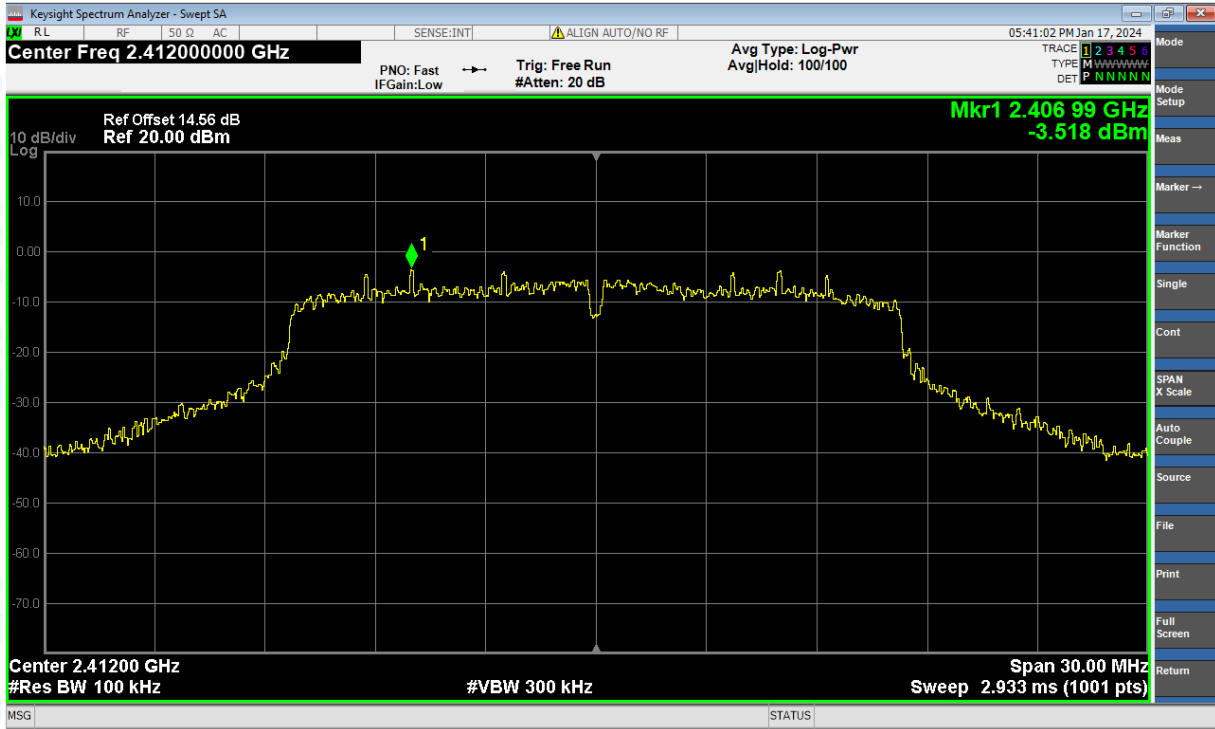
Band Edge NVNT b 2462MHz Ant1 Ref



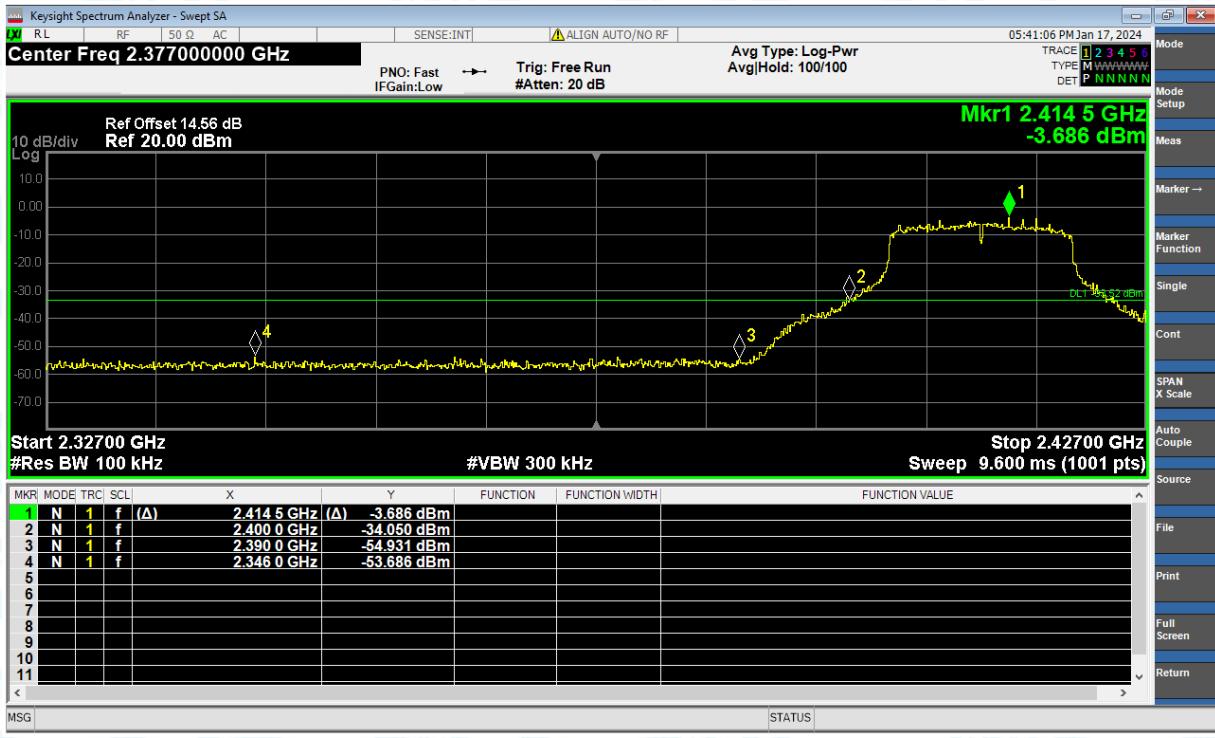
Band Edge NVNT b 2462MHz Ant1 Emission



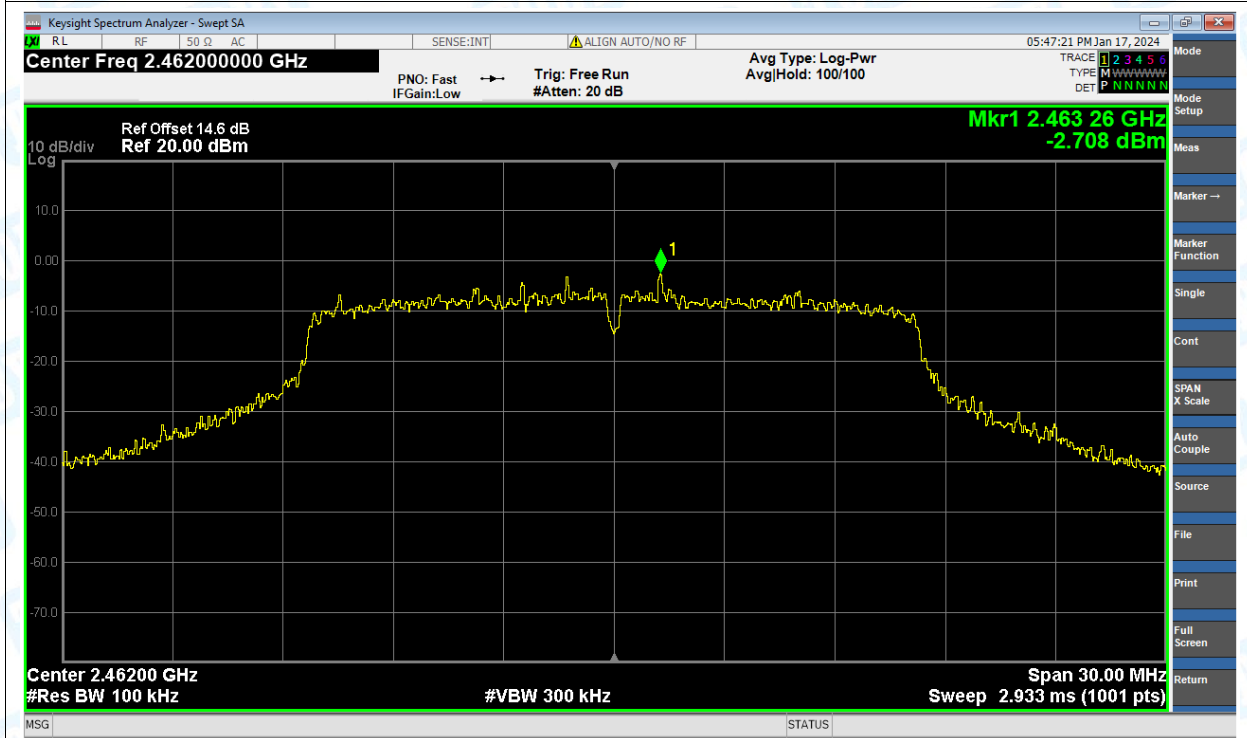
Band Edge NVNT g 2412MHz Ant1 Ref



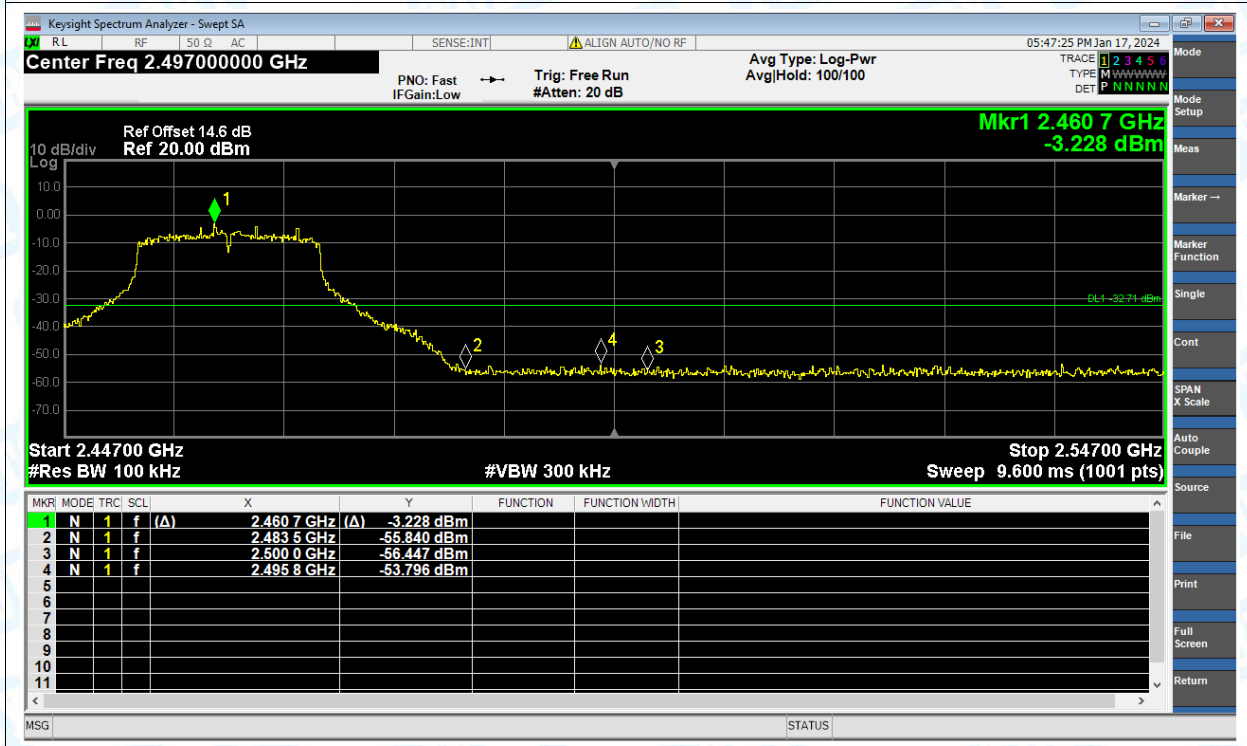
Band Edge NVNT g 2412MHz Ant1 Emission



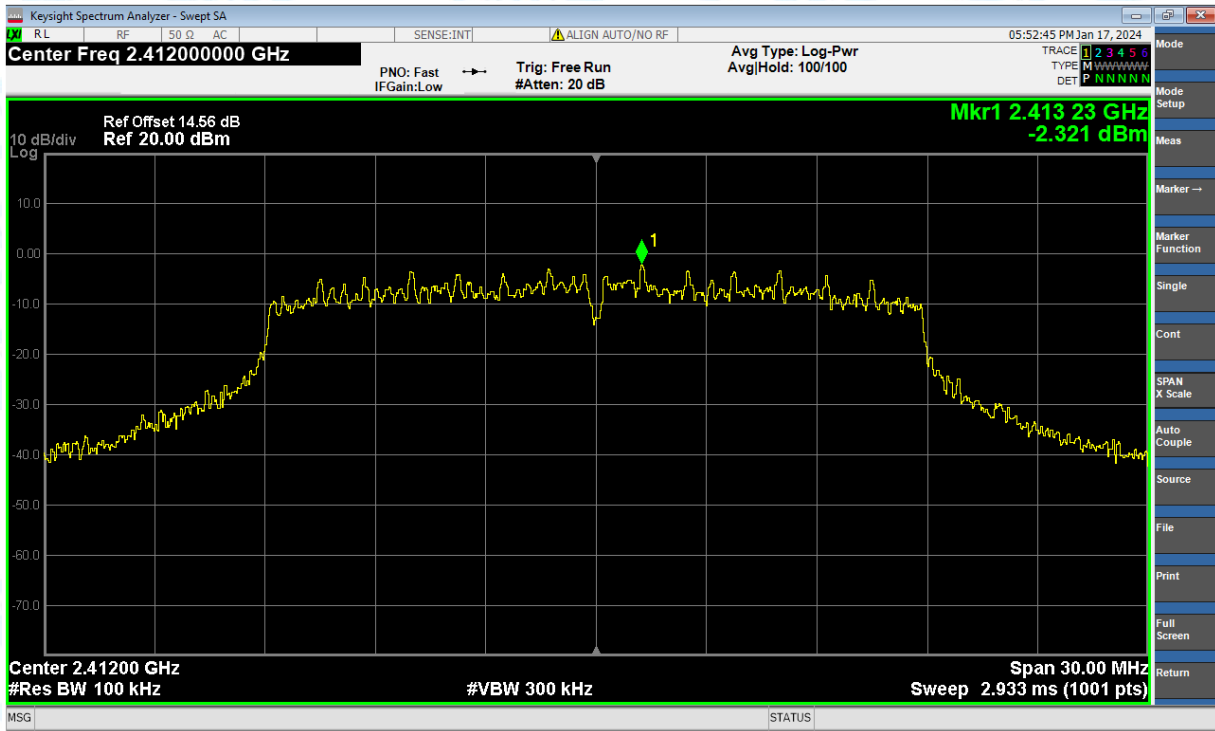
Band Edge NVNT g 2462MHz Ant1 Ref



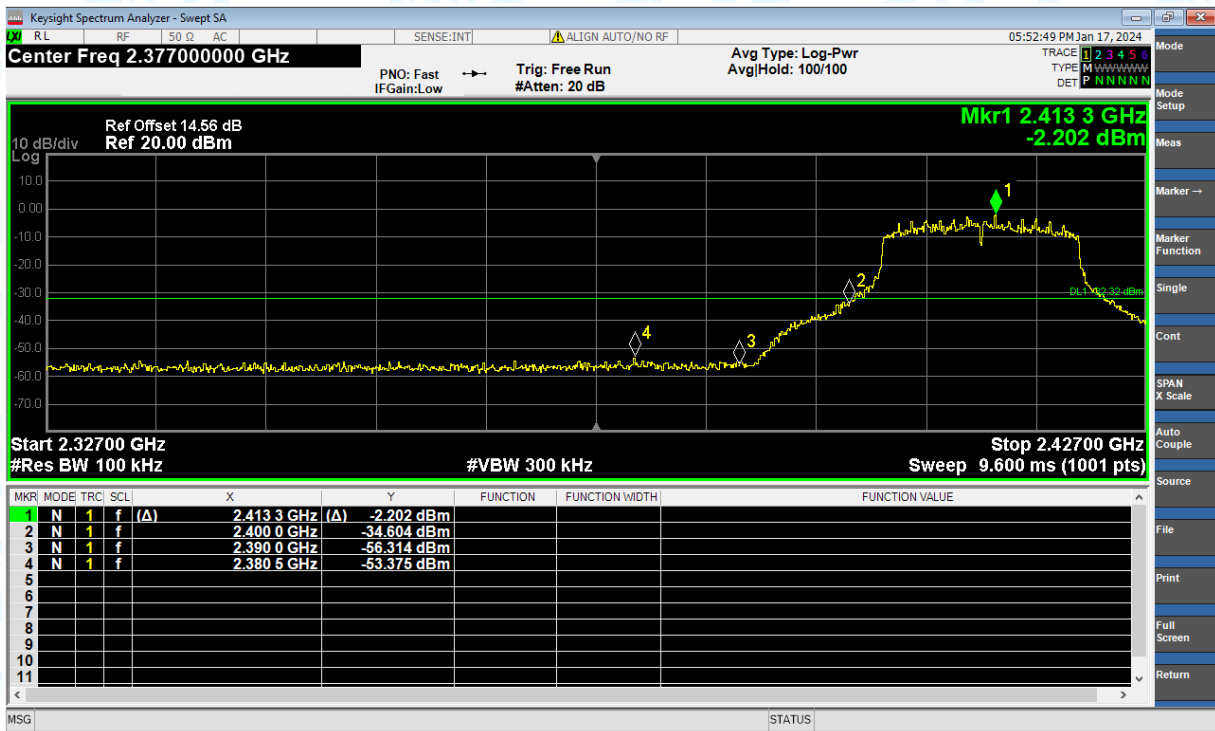
Band Edge NVNT g 2462MHz Ant1 Emission



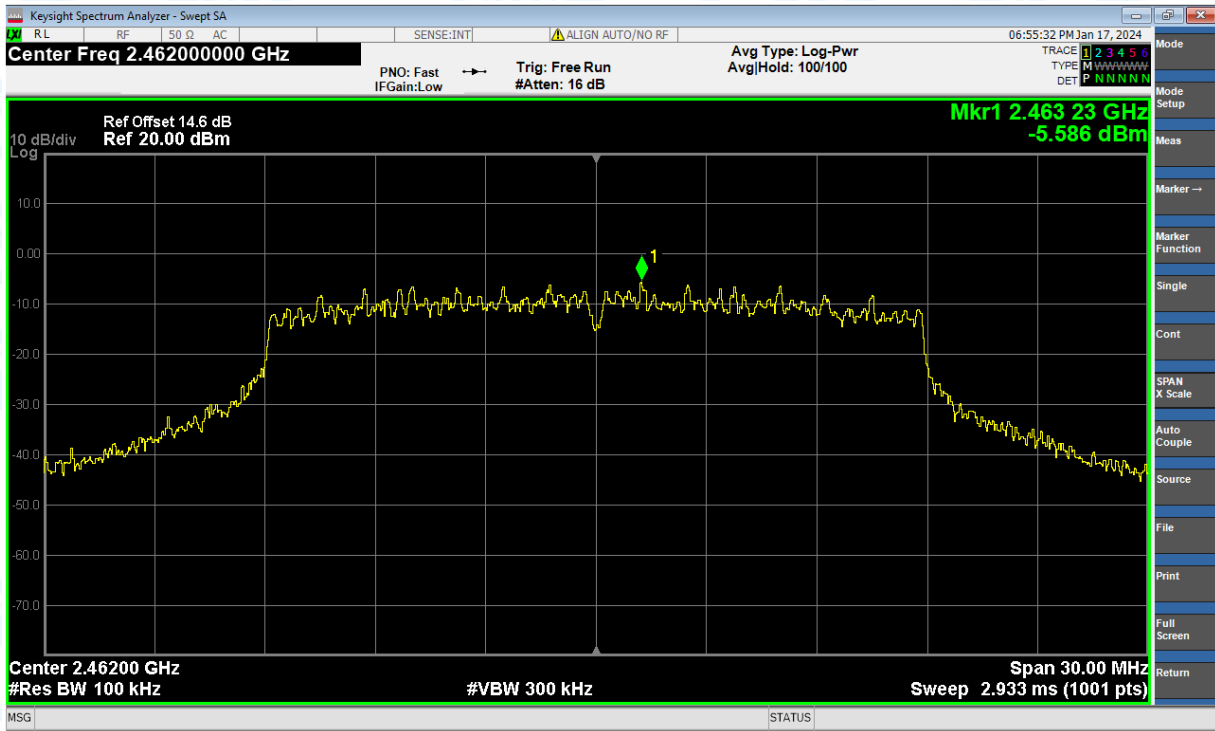
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



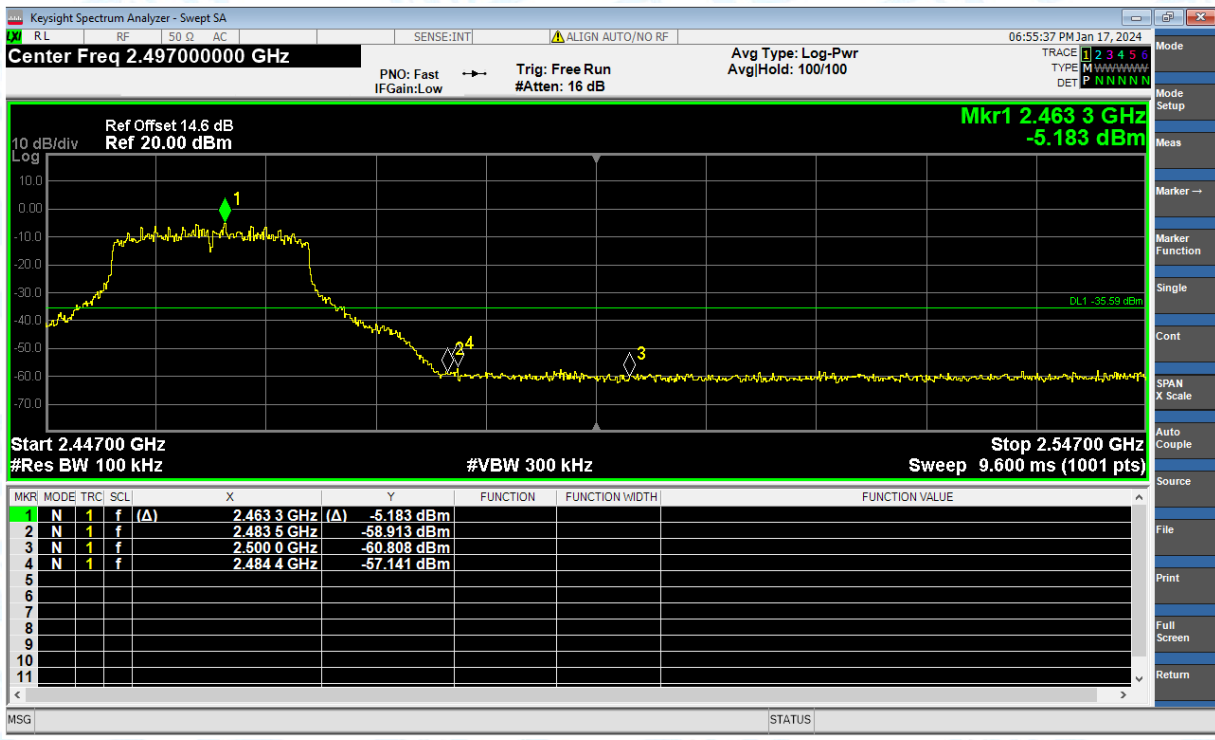
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



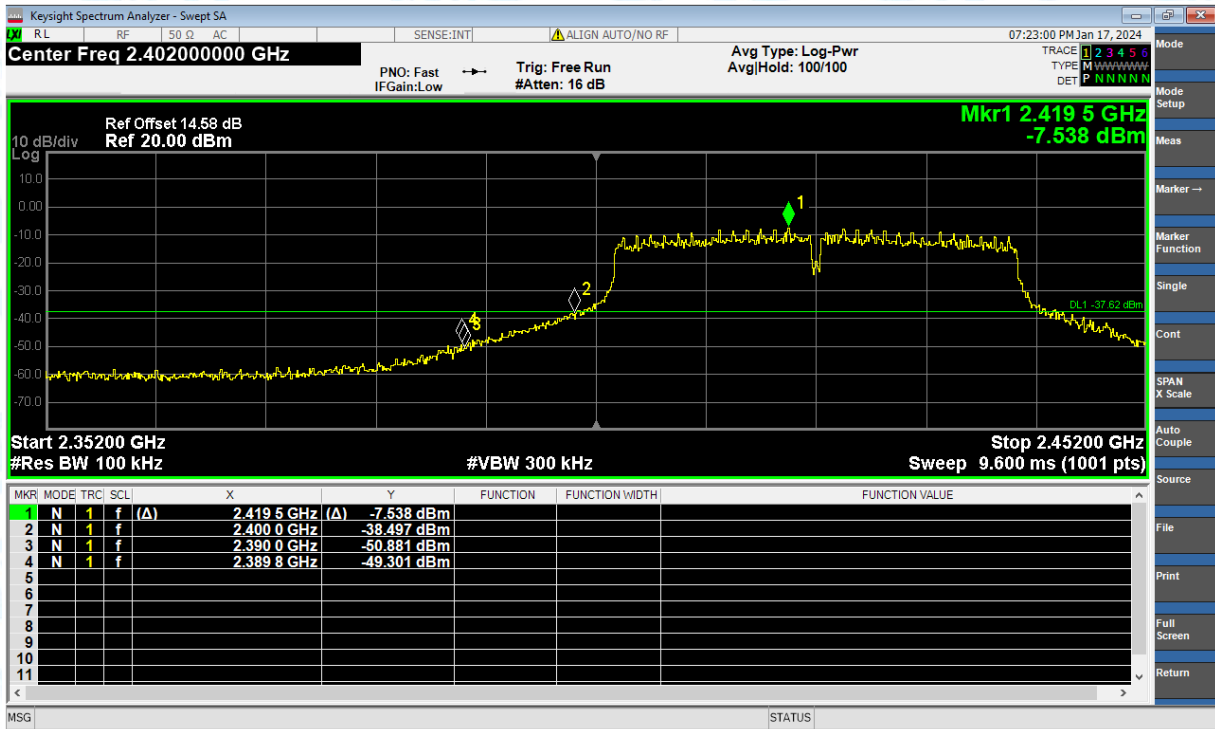
Band Edge NVNT n(HT20) 2462MHz Ant1 Emission



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



## Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-39.69	-30	Pass
NVNT	ax(VHT20)	2437	Ant1	-38.4	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-45.47	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-35.99	-30	Pass
NVNT	ax(VHT40)	2437	Ant1	-36.4	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-36.04	-30	Pass
NVNT	b	2412	Ant1	-40.2	-30	Pass
NVNT	b	2437	Ant1	-43.73	-30	Pass
NVNT	b	2462	Ant1	-39.95	-30	Pass
NVNT	g	2412	Ant1	-37.56	-30	Pass
NVNT	g	2437	Ant1	-36.76	-30	Pass
NVNT	g	2462	Ant1	-35.94	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.72	-30	Pass
NVNT	n(HT20)	2437	Ant1	-39.98	-30	Pass
NVNT	n(HT20)	2462	Ant1	-38.96	-30	Pass
NVNT	n(HT40)	2422	Ant1	-35	-30	Pass
NVNT	n(HT40)	2437	Ant1	-35.75	-30	Pass
NVNT	n(HT40)	2452	Ant1	-36.34	-30	Pass



Test Graphs

Tx. Spurious NVNT ax(VHT20) 2412MHz Ant1 Ref



Tx. Spurious NVNT ax(VHT20) 2412MHz Ant1 Emission

