

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

General Description of EUT	
Product Name:	Tablet
Test Model:	CP81
Sample ID:	202404-0010-6-2#
Environmental Conditions	
Temperature:	25°C
Relative Humidity:	55%
Test Voltage:	DC 3.8V
Test Engineer:	ZKN Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202404-0010-112 The report only show the worst case data.	



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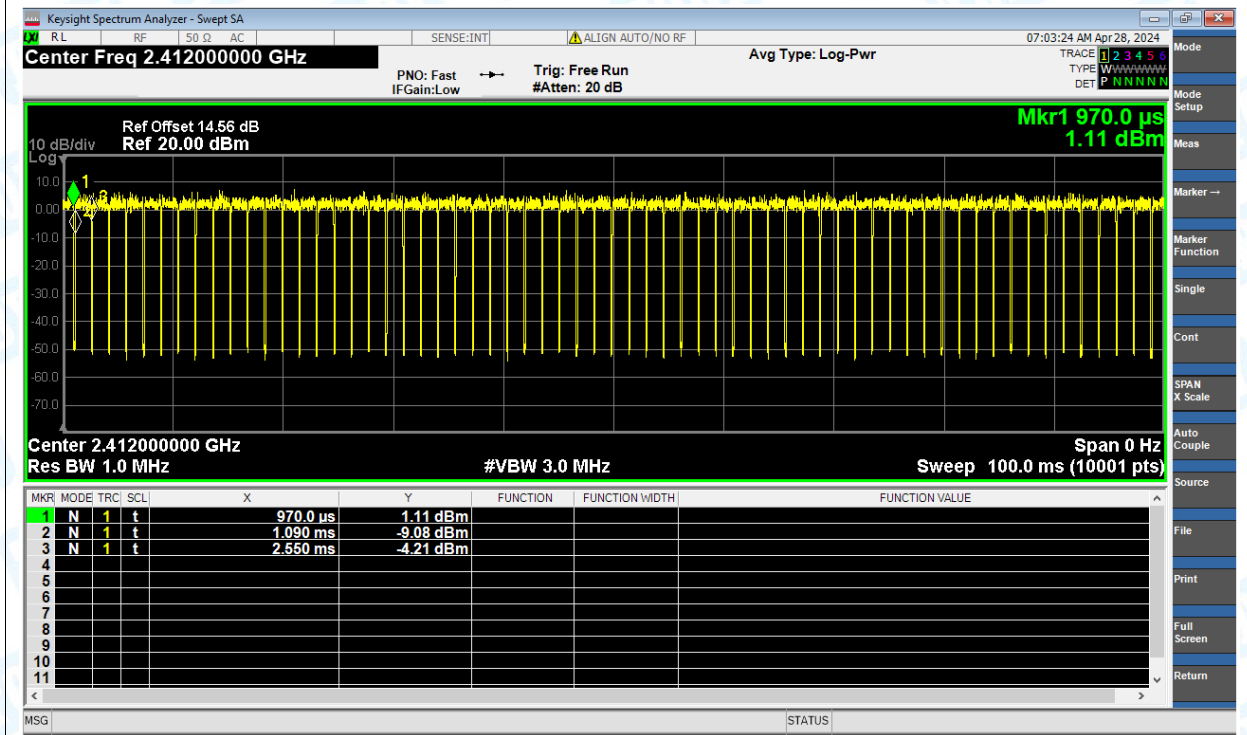


# 1. Duty Cycle

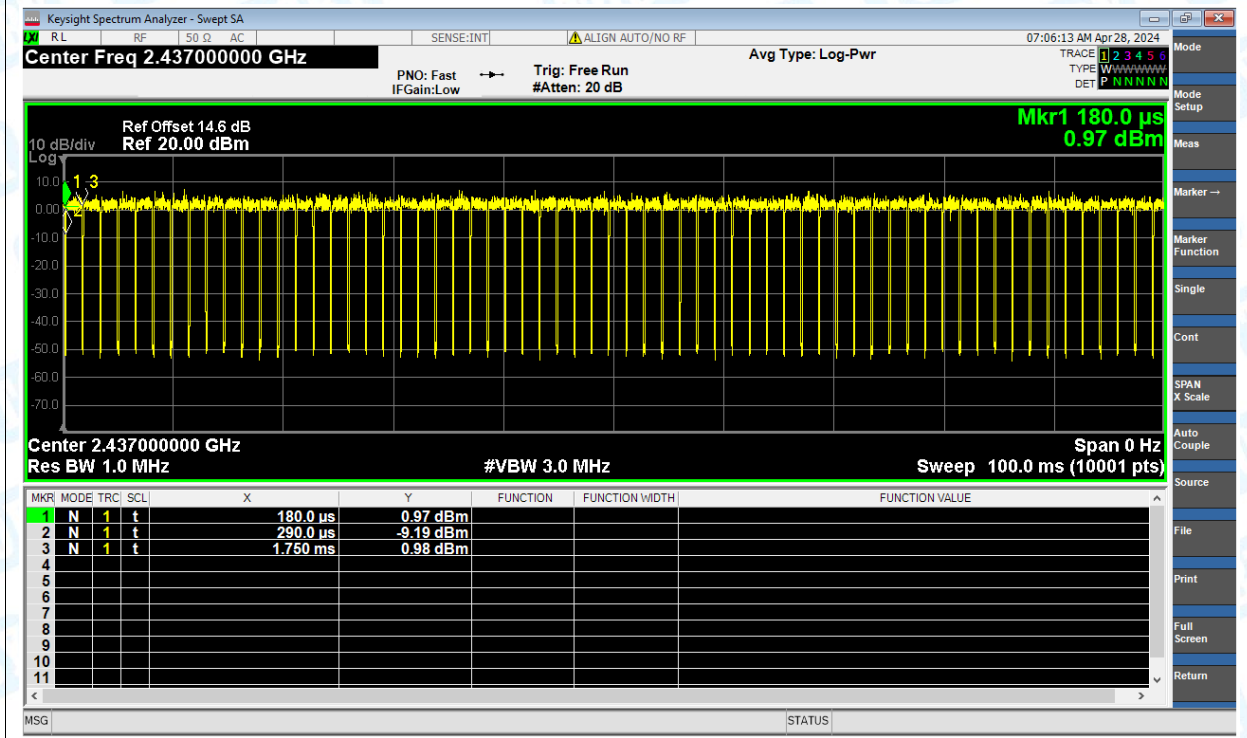
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax(VHT20)	2412	Ant1	92.41	0.34	0.68
NVNT	ax(VHT20)	2437	Ant1	92.99	0.32	0.68
NVNT	ax(VHT20)	2462	Ant1	92.41	0.34	0.68
NVNT	ax(VHT40)	2422	Ant1	83.7	0.77	1.3
NVNT	ax(VHT40)	2437	Ant1	83.52	0.78	1.32
NVNT	ax(VHT40)	2452	Ant1	85.39	0.69	1.32
NVNT	b	2412	Ant1	99.11	0.04	0.08
NVNT	b	2437	Ant1	98.79	0.05	0.08
NVNT	b	2462	Ant1	98.87	0.05	0.08
NVNT	g	2412	Ant1	94.44	0.25	0.49
NVNT	g	2437	Ant1	94.86	0.23	0.49
NVNT	g	2462	Ant1	92.73	0.33	0.49
NVNT	n(HT20)	2412	Ant1	93.6	0.29	0.53
NVNT	n(HT20)	2437	Ant1	94.03	0.27	0.53
NVNT	n(HT20)	2462	Ant1	91.3	0.4	0.53
NVNT	n(HT40)	2422	Ant1	87.85	0.56	1.06
NVNT	n(HT40)	2437	Ant1	89.52	0.48	1.06
NVNT	n(HT40)	2452	Ant1	88.57	0.53	1.08

Test Graphs

Duty Cycle NVNT ax(VHT20) 2412MHz Ant1

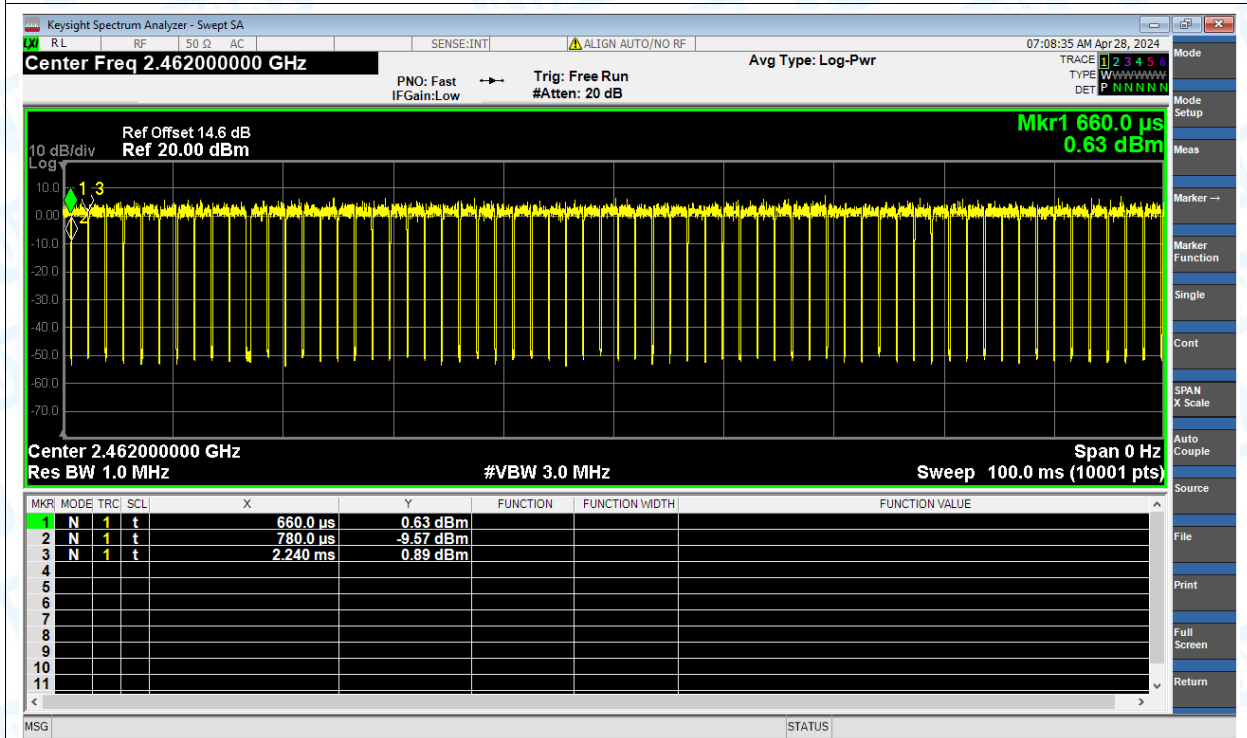


Duty Cycle NVNT ax(VHT20) 2437MHz Ant1

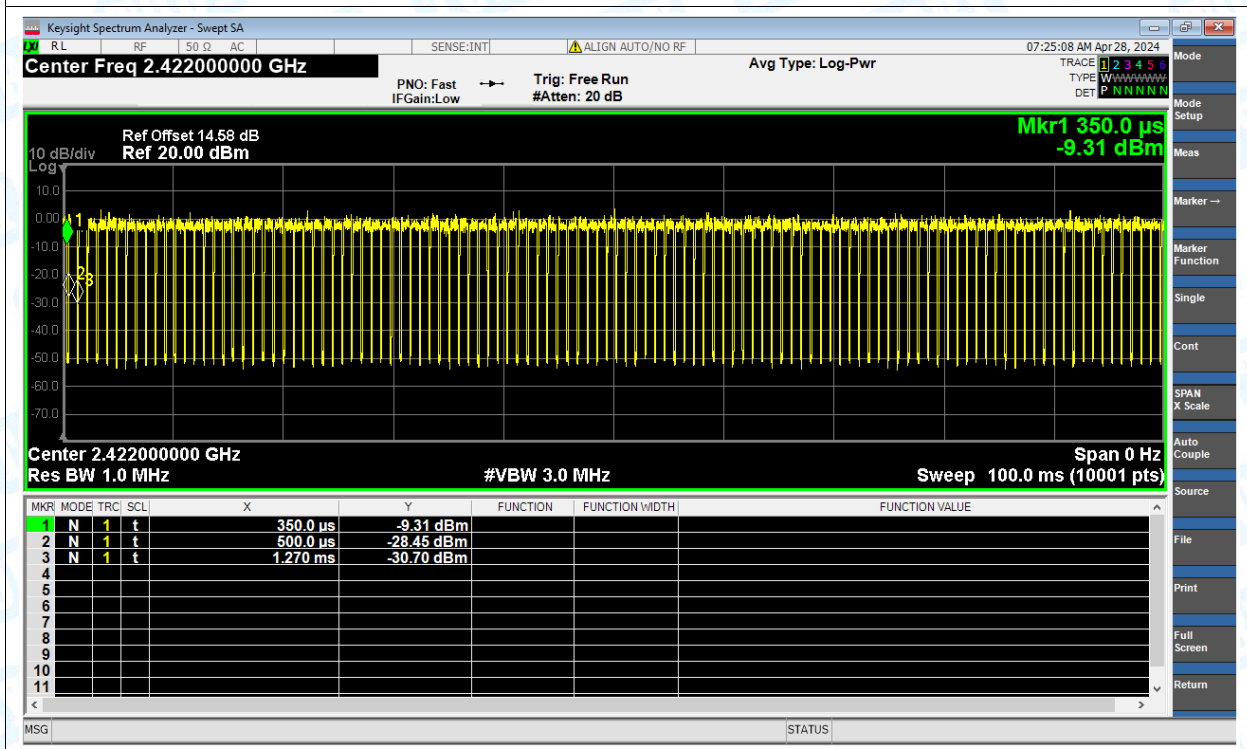




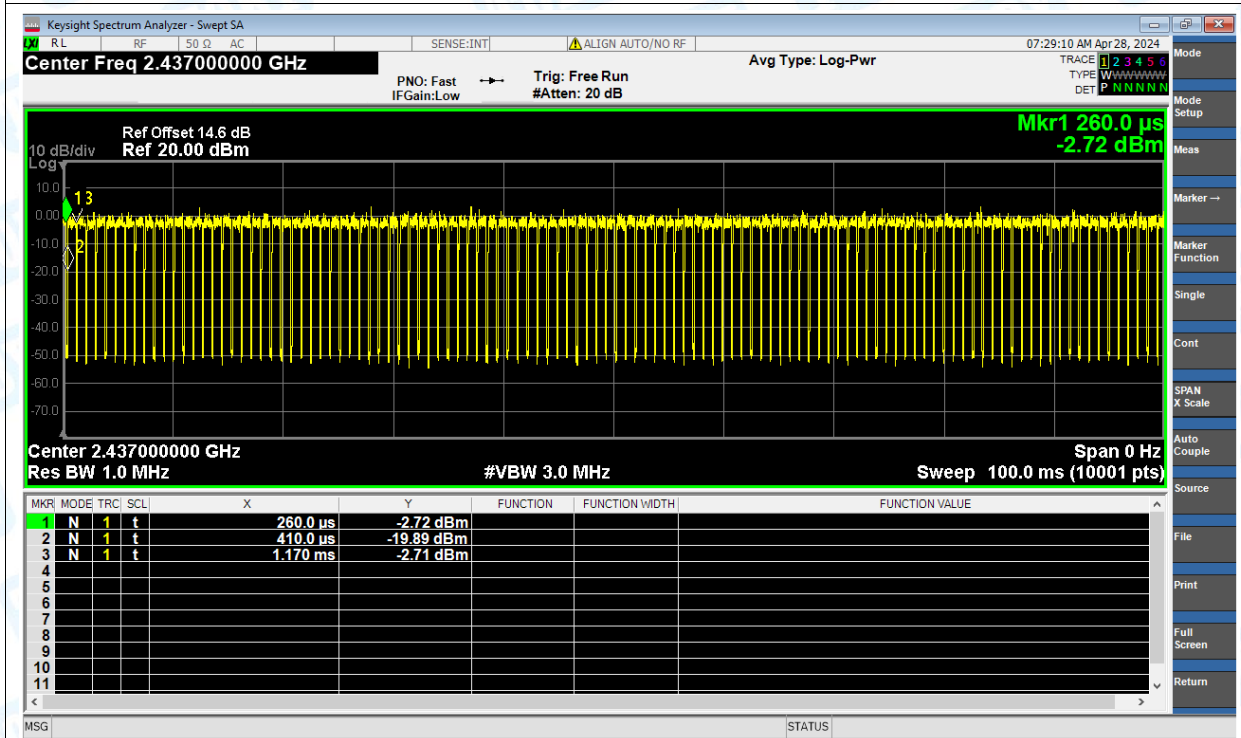
Duty Cycle NVNT ax(VHT20) 2462MHz Ant1



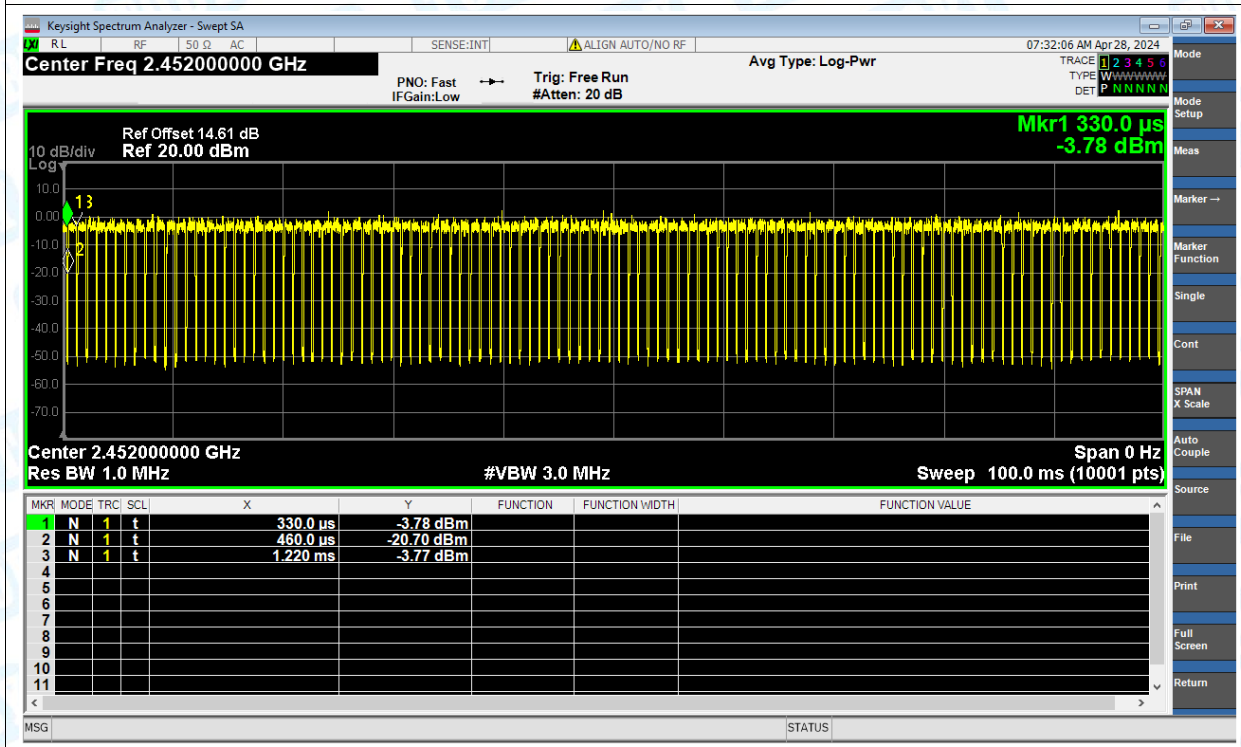
Duty Cycle NVNT ax(VHT40) 2422MHz Ant1



Duty Cycle NVNT ax(VHT40) 2437MHz Ant1

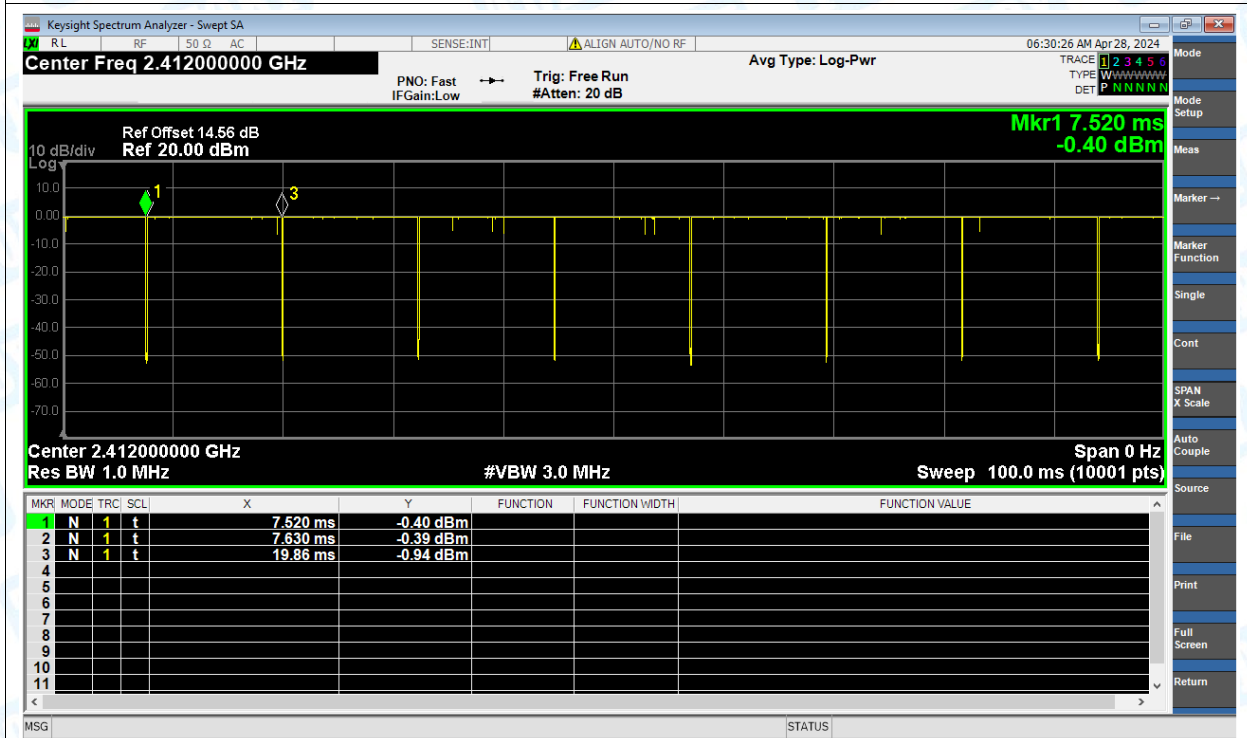


Duty Cycle NVNT ax(VHT40) 2452MHz Ant1

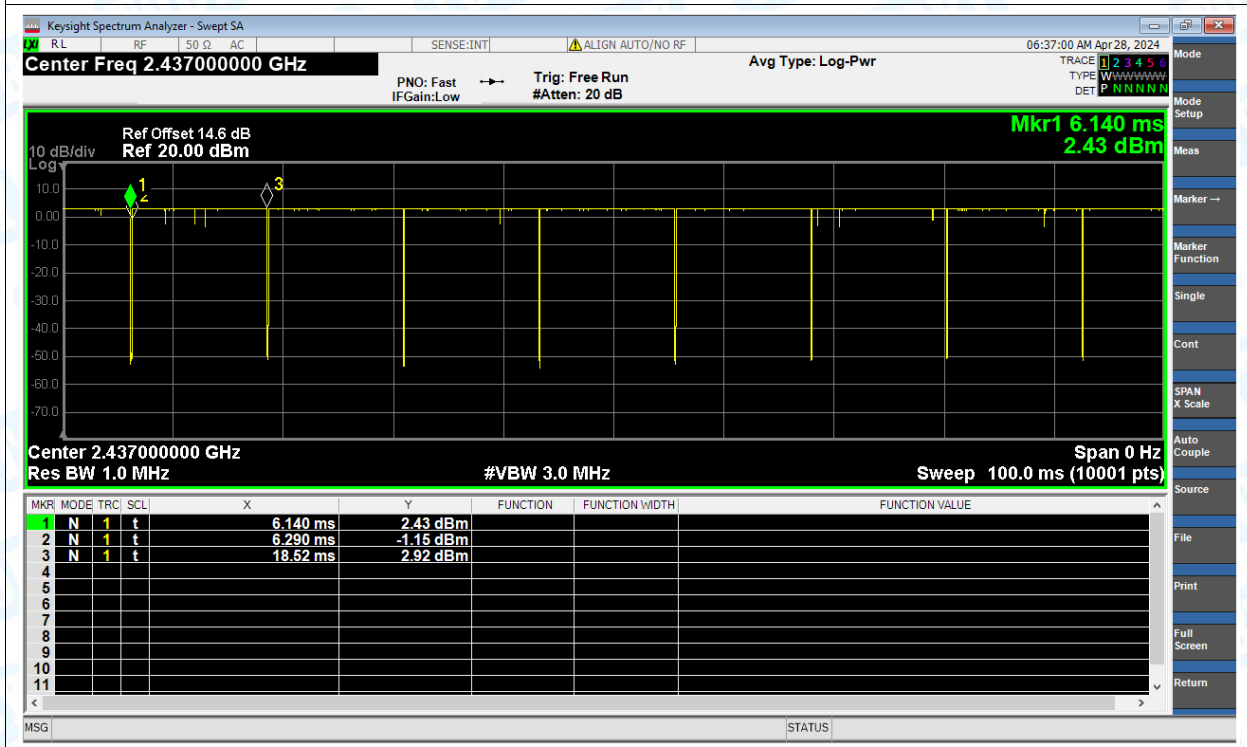




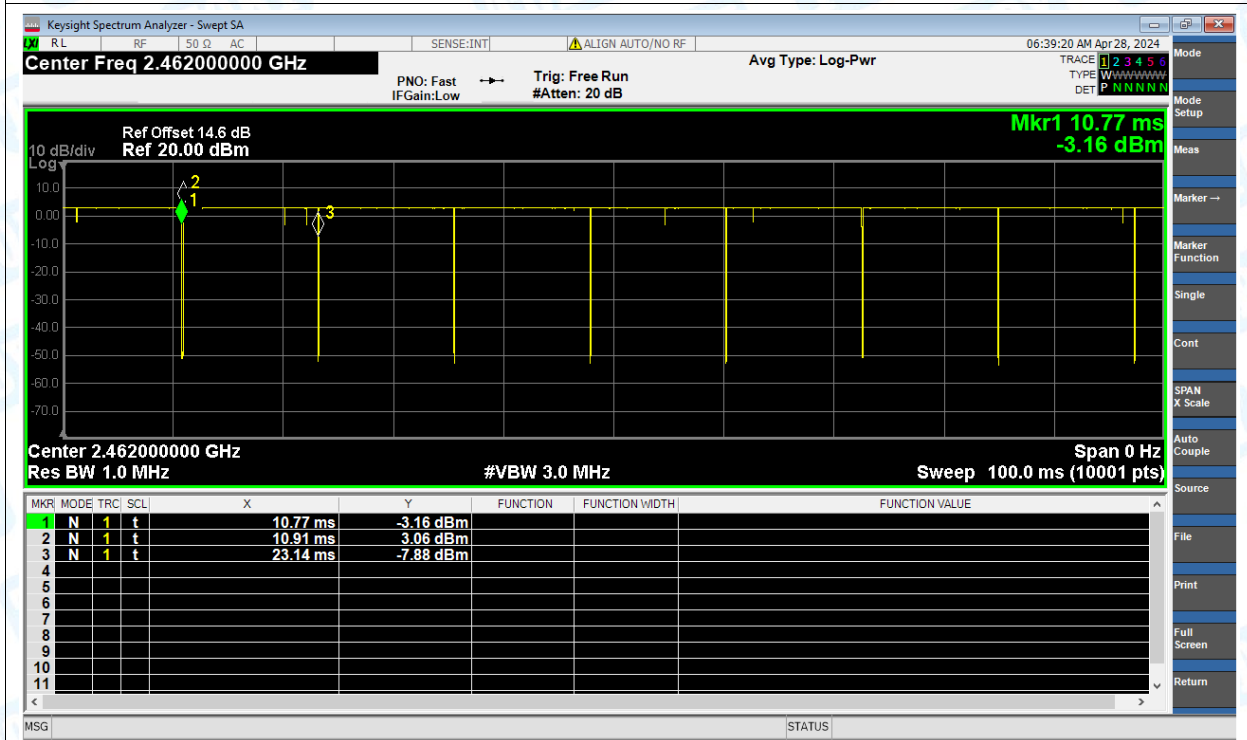
Duty Cycle NVNT b 2412MHz Ant1



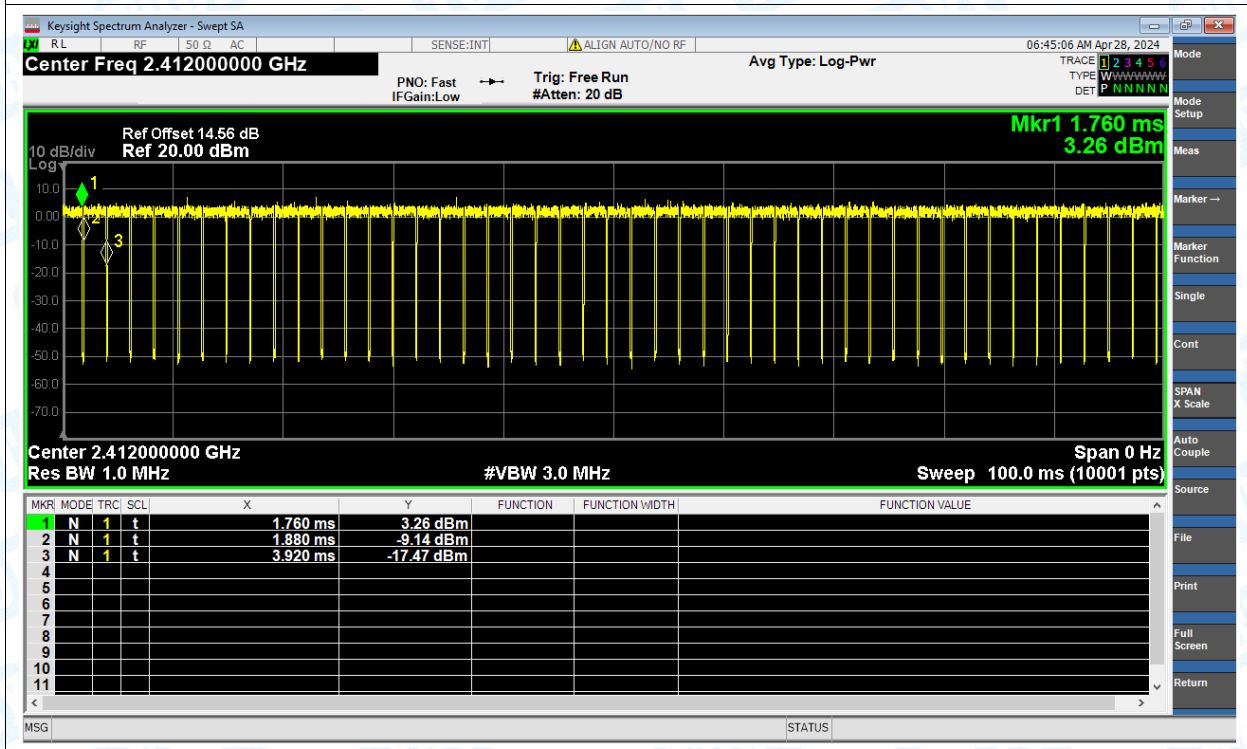
Duty Cycle NVNT b 2437MHz Ant1



Duty Cycle NVNT b 2462MHz Ant1

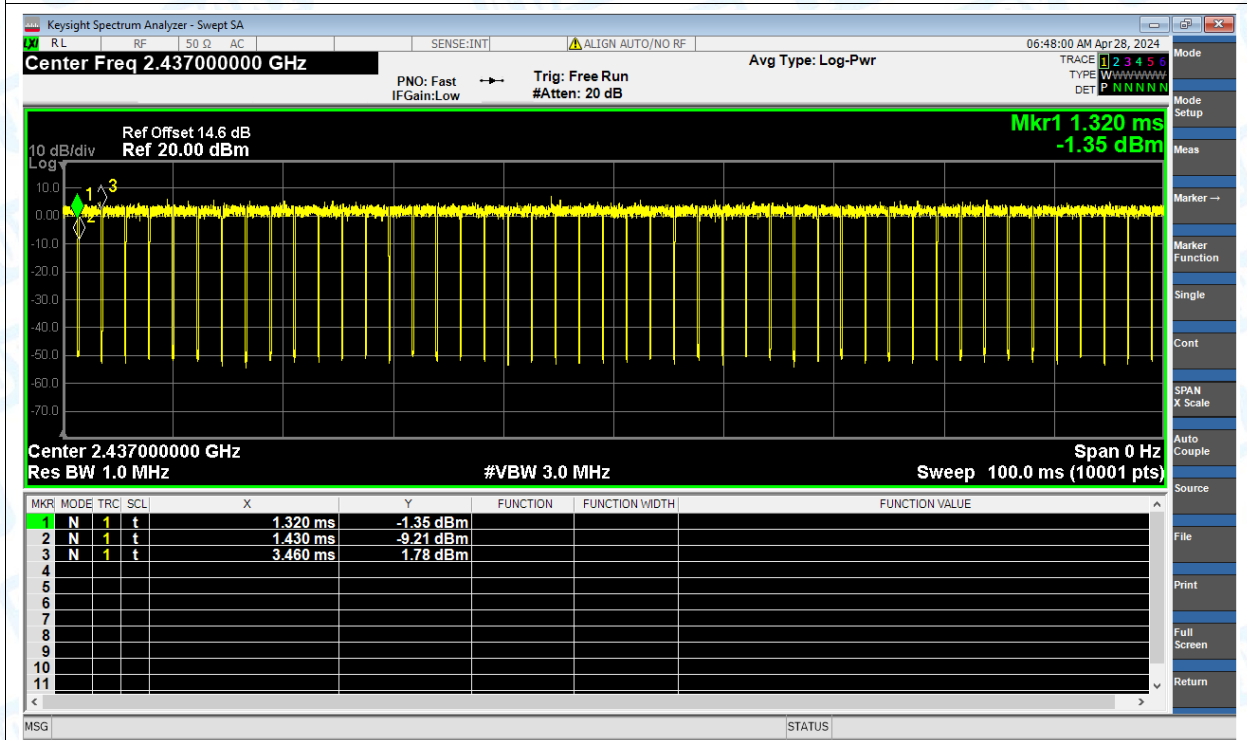


Duty Cycle NVNT g 2412MHz Ant1

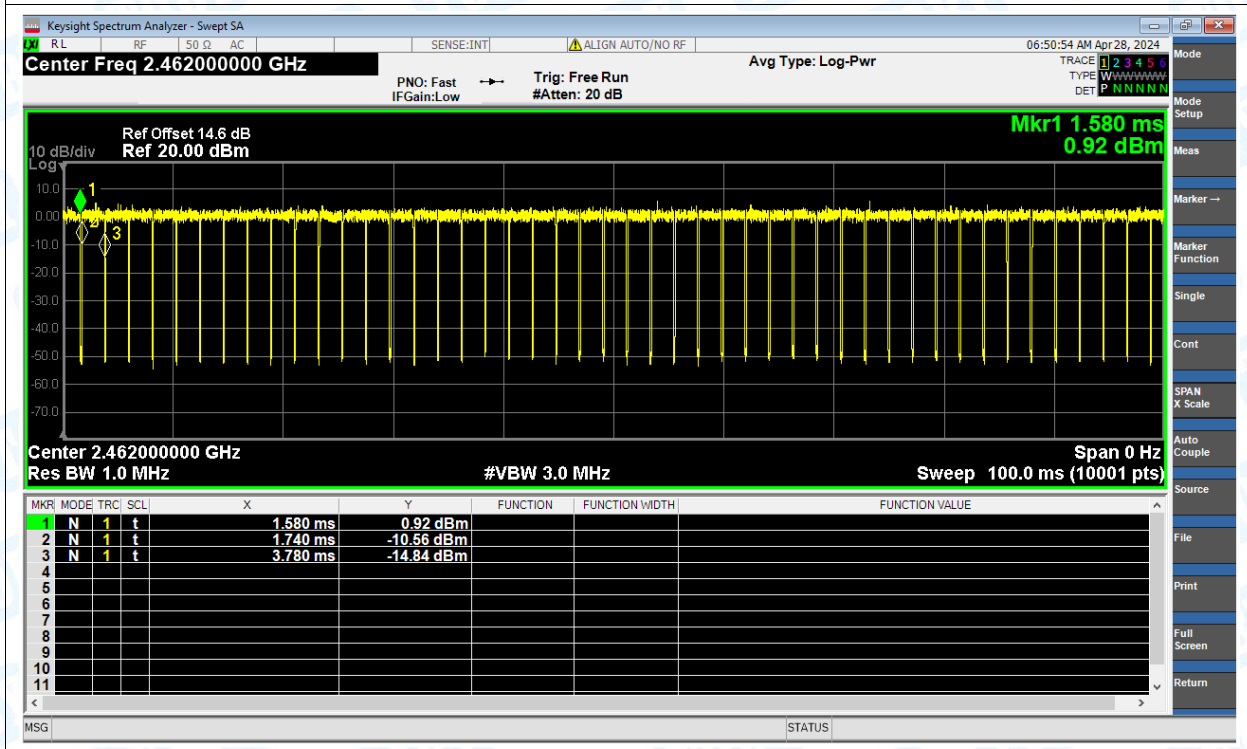




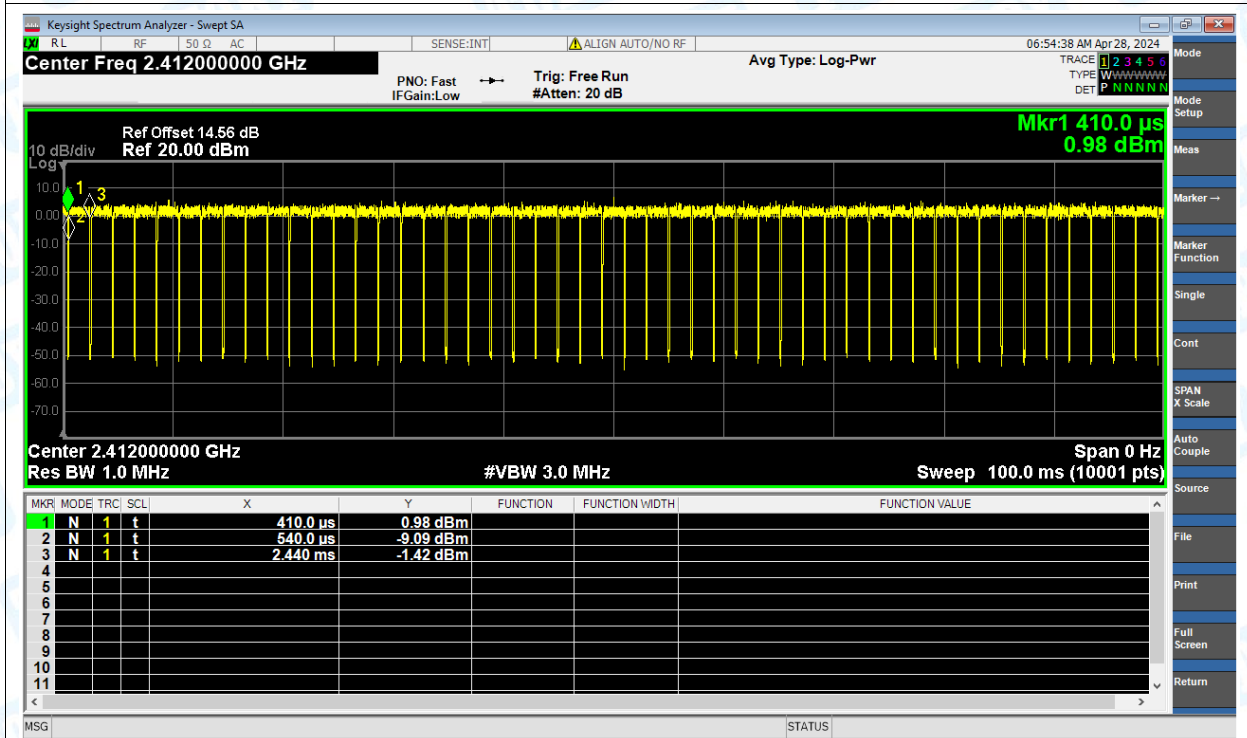
Duty Cycle NVNT g 2437MHz Ant1



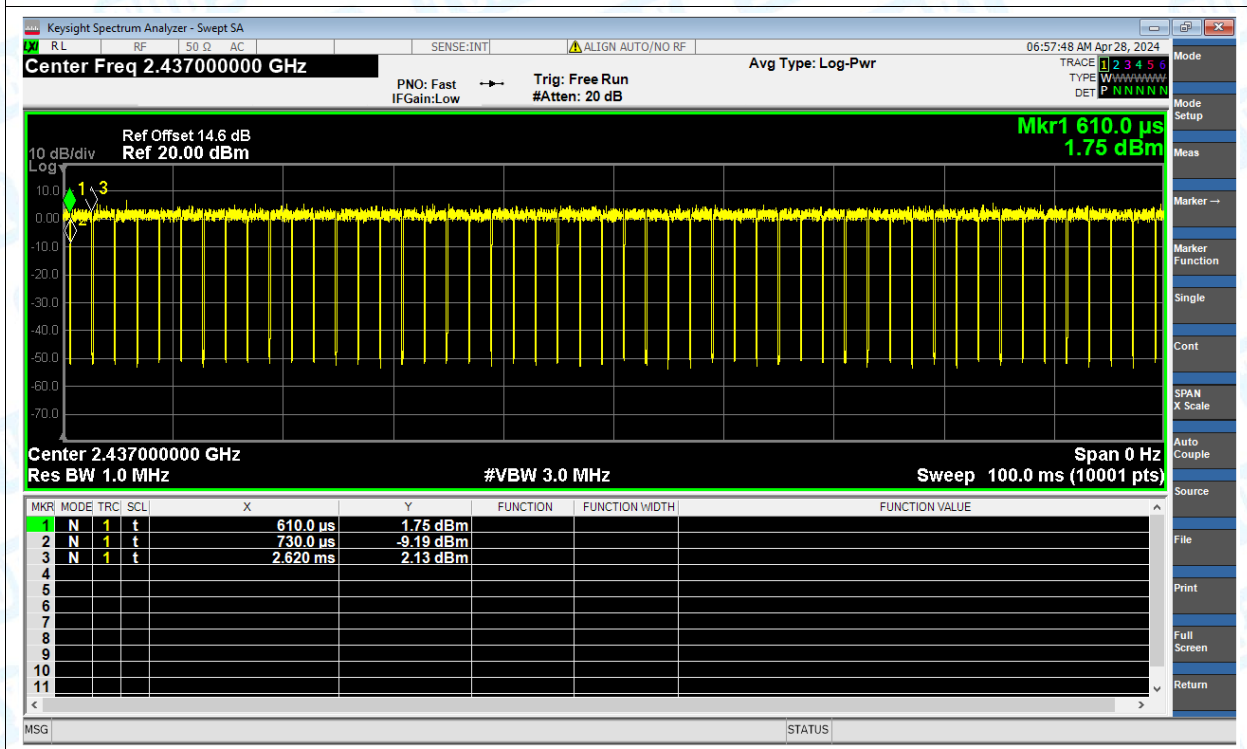
Duty Cycle NVNT g 2462MHz Ant1



Duty Cycle NVNT n(HT20) 2412MHz Ant1

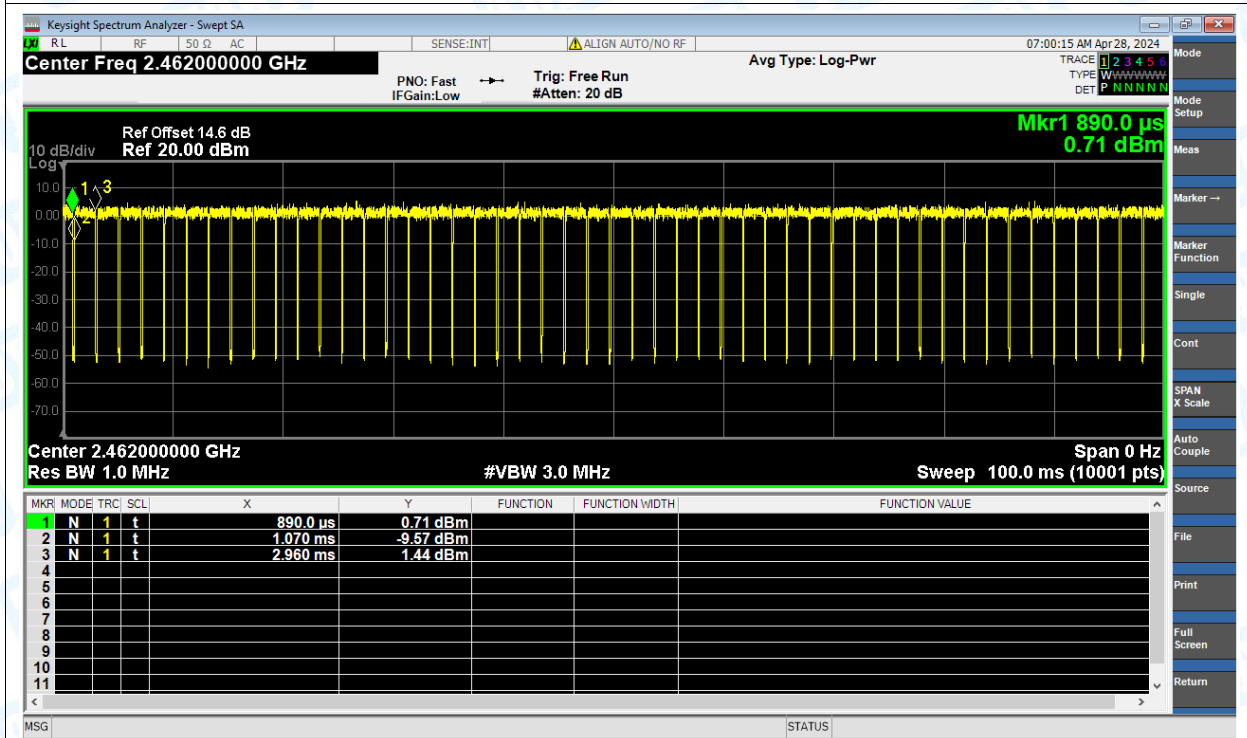


Duty Cycle NVNT n(HT20) 2437MHz Ant1

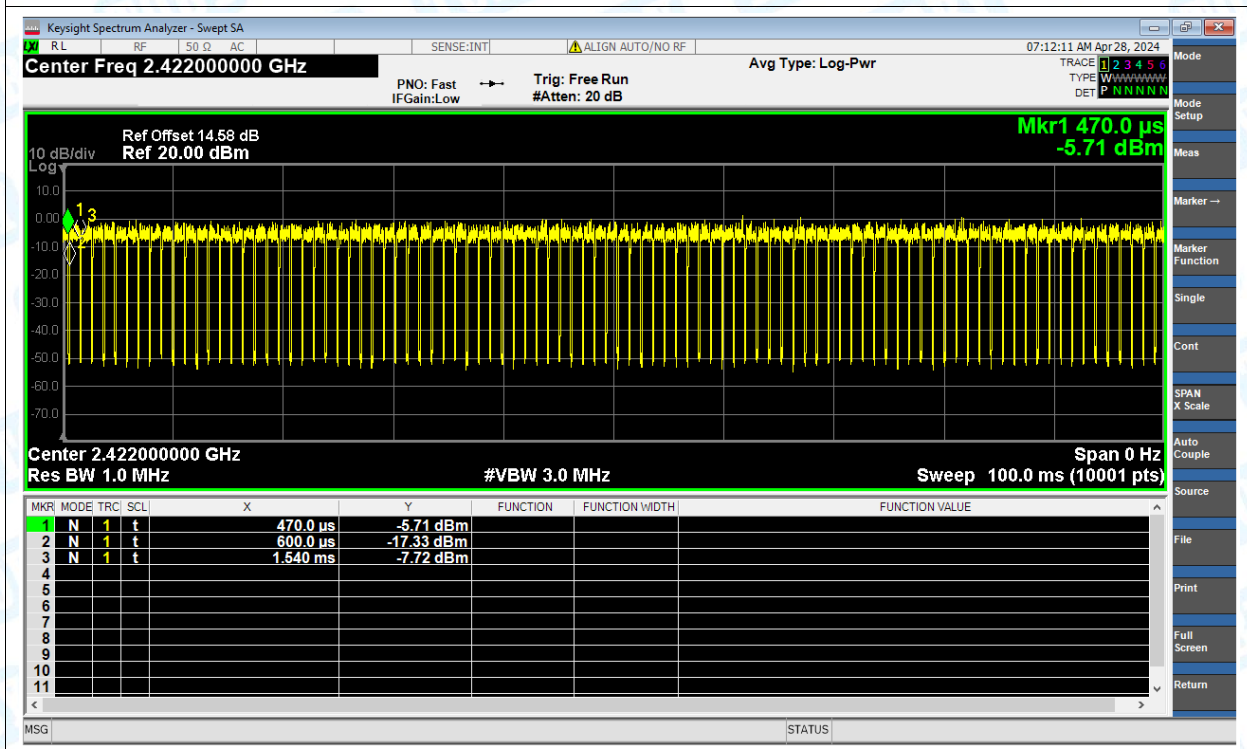




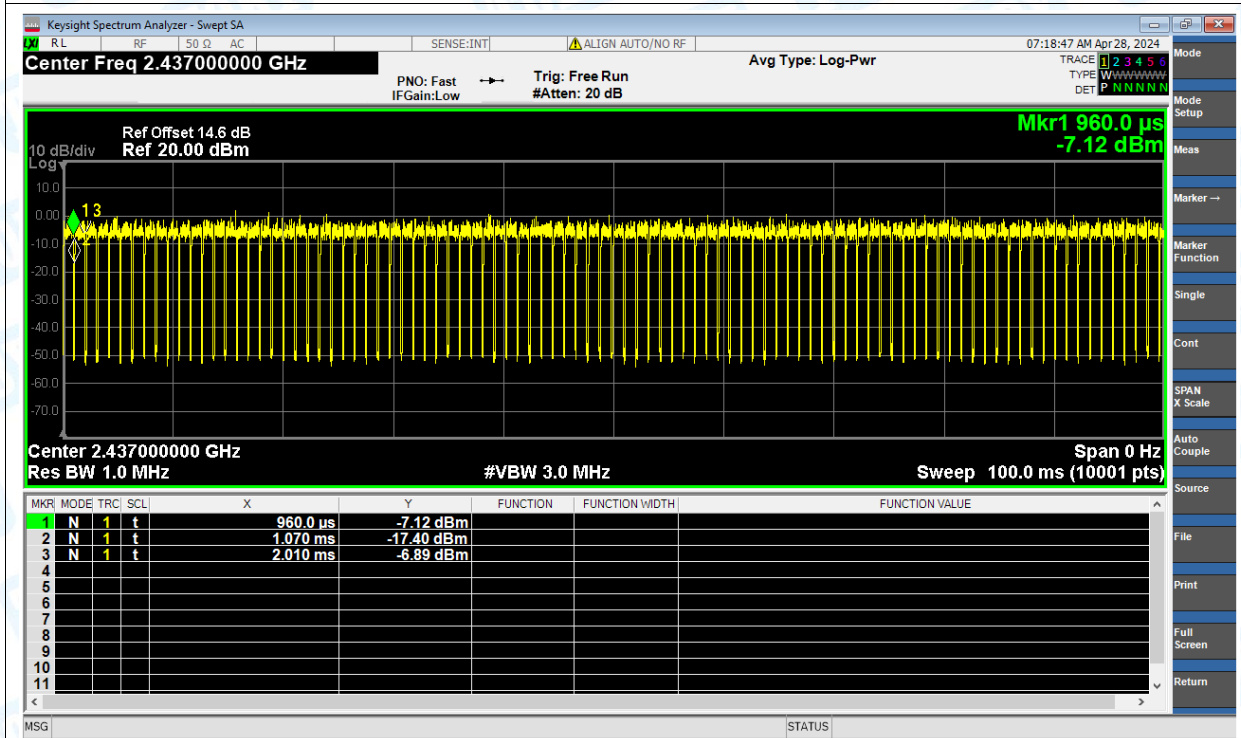
Duty Cycle NVNT n(HT20) 2462MHz Ant1



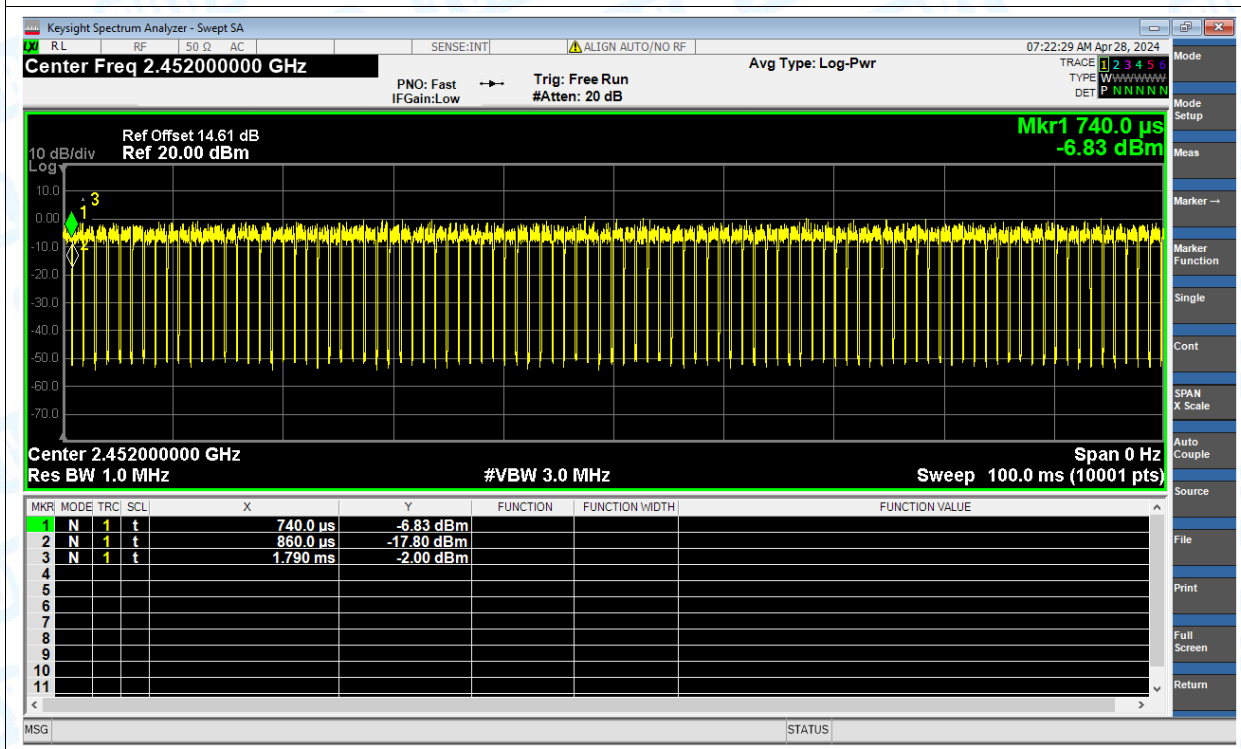
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1





## 2. Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	7.84	30	Pass
NVNT	ax(VHT20)	2437	Ant1	7.68	30	Pass
NVNT	ax(VHT20)	2462	Ant1	7.33	30	Pass
NVNT	ax(VHT40)	2422	Ant1	7.23	30	Pass
NVNT	ax(VHT40)	2437	Ant1	7.14	30	Pass
NVNT	ax(VHT40)	2452	Ant1	7.8	30	Pass
NVNT	b	2412	Ant1	7.7	30	Pass
NVNT	b	2437	Ant1	7.96	30	Pass
NVNT	b	2462	Ant1	7.01	30	Pass
NVNT	g	2412	Ant1	7.99	30	Pass
NVNT	g	2437	Ant1	7.8	30	Pass
NVNT	g	2462	Ant1	7.55	30	Pass
NVNT	n(HT20)	2412	Ant1	7.89	30	Pass
NVNT	n(HT20)	2437	Ant1	7.72	30	Pass
NVNT	n(HT20)	2462	Ant1	7.51	30	Pass
NVNT	n(HT40)	2422	Ant1	7.97	30	Pass
NVNT	n(HT40)	2437	Ant1	7.77	30	Pass
NVNT	n(HT40)	2452	Ant1	7.65	30	Pass

Note: The duty factor has been compensated into the result.



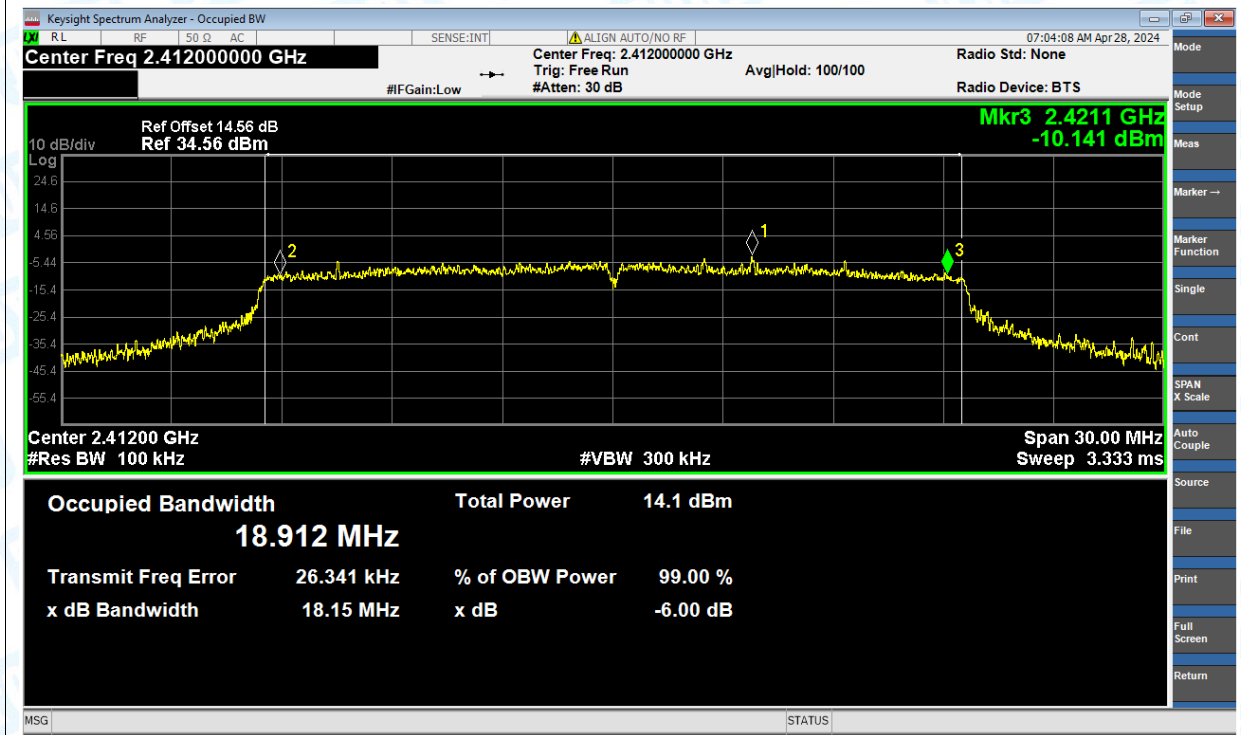
### 3. -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax(VHT20)	2412	Ant1	18.15	0.5	Pass
NVNT	ax(VHT20)	2437	Ant1	17.37	0.5	Pass
NVNT	ax(VHT20)	2462	Ant1	18.7	0.5	Pass
NVNT	ax(VHT40)	2422	Ant1	36.11	0.5	Pass
NVNT	ax(VHT40)	2437	Ant1	35.02	0.5	Pass
NVNT	ax(VHT40)	2452	Ant1	35.38	0.5	Pass
NVNT	b	2412	Ant1	9.8	0.5	Pass
NVNT	b	2437	Ant1	9.6	0.5	Pass
NVNT	b	2462	Ant1	9.08	0.5	Pass
NVNT	g	2412	Ant1	15.48	0.5	Pass
NVNT	g	2437	Ant1	15.29	0.5	Pass
NVNT	g	2462	Ant1	15.42	0.5	Pass
NVNT	n(HT20)	2412	Ant1	13.81	0.5	Pass
NVNT	n(HT20)	2437	Ant1	14.4	0.5	Pass
NVNT	n(HT20)	2462	Ant1	14.98	0.5	Pass
NVNT	n(HT40)	2422	Ant1	33.87	0.5	Pass
NVNT	n(HT40)	2437	Ant1	35.14	0.5	Pass
NVNT	n(HT40)	2452	Ant1	35.4	0.5	Pass

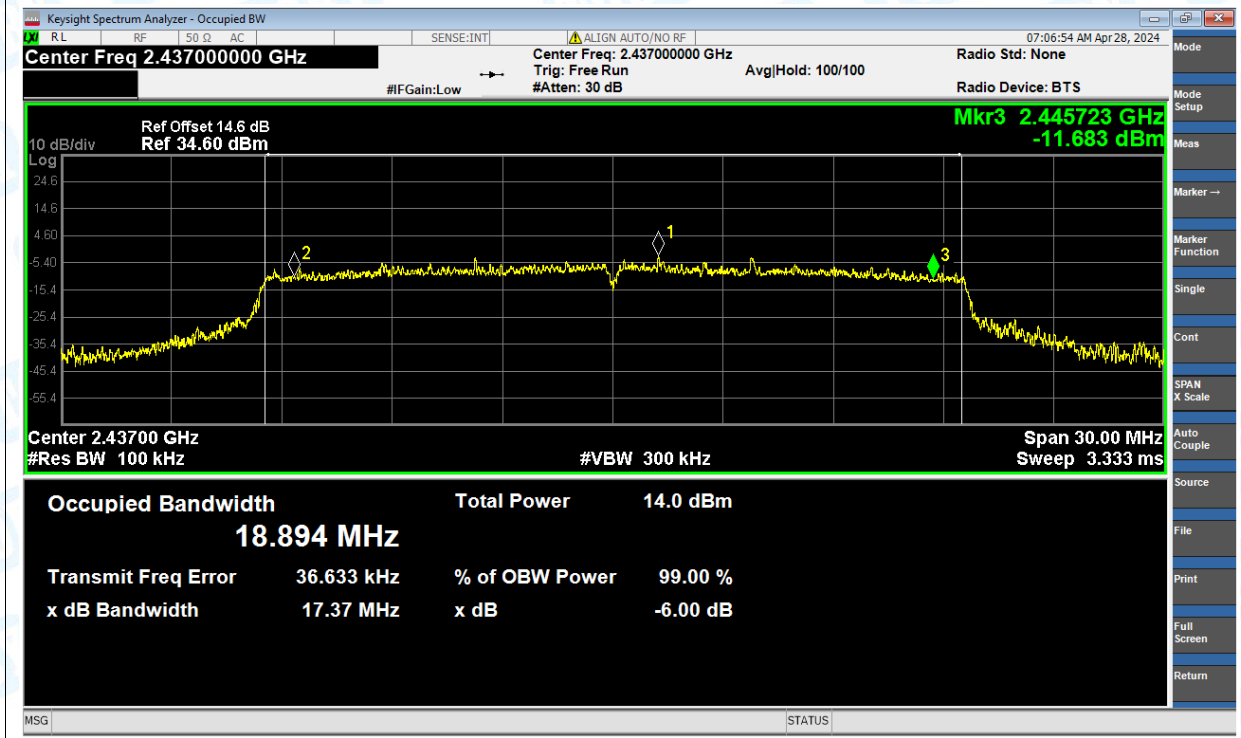


Test Graphs

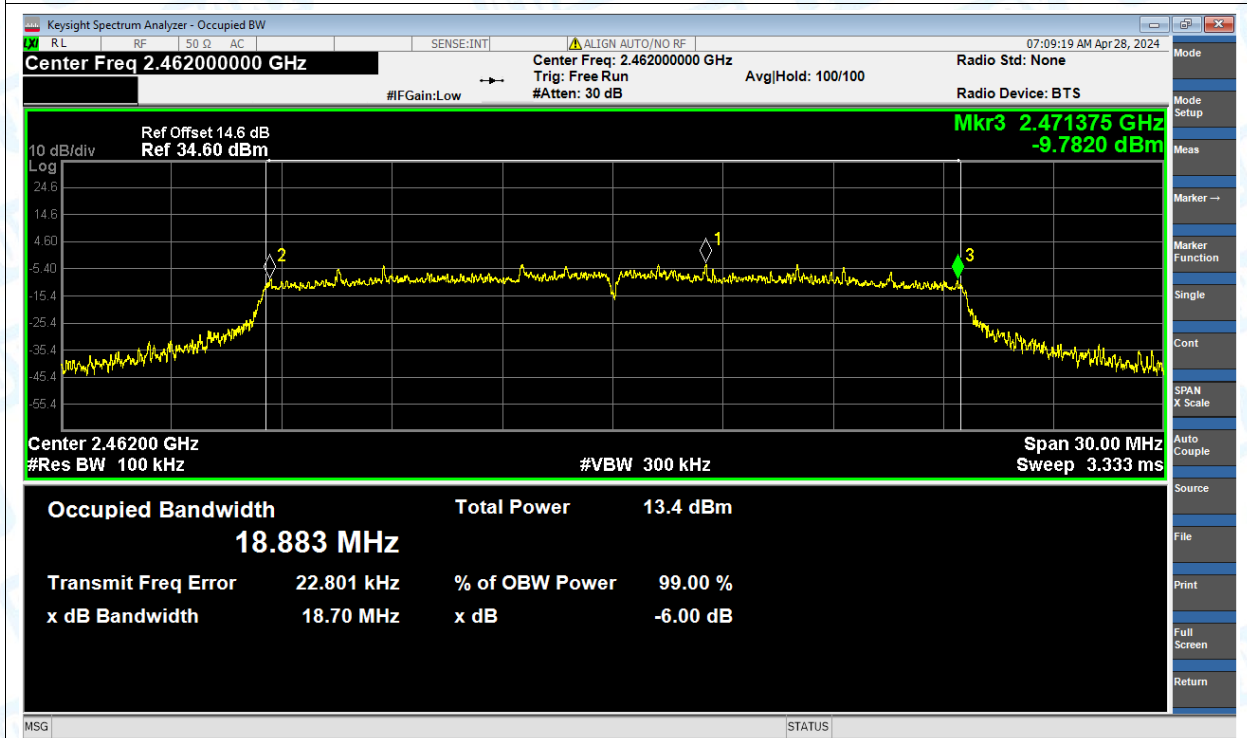
-6dB Bandwidth NVNT ax(VHT20) 2412MHz Ant1



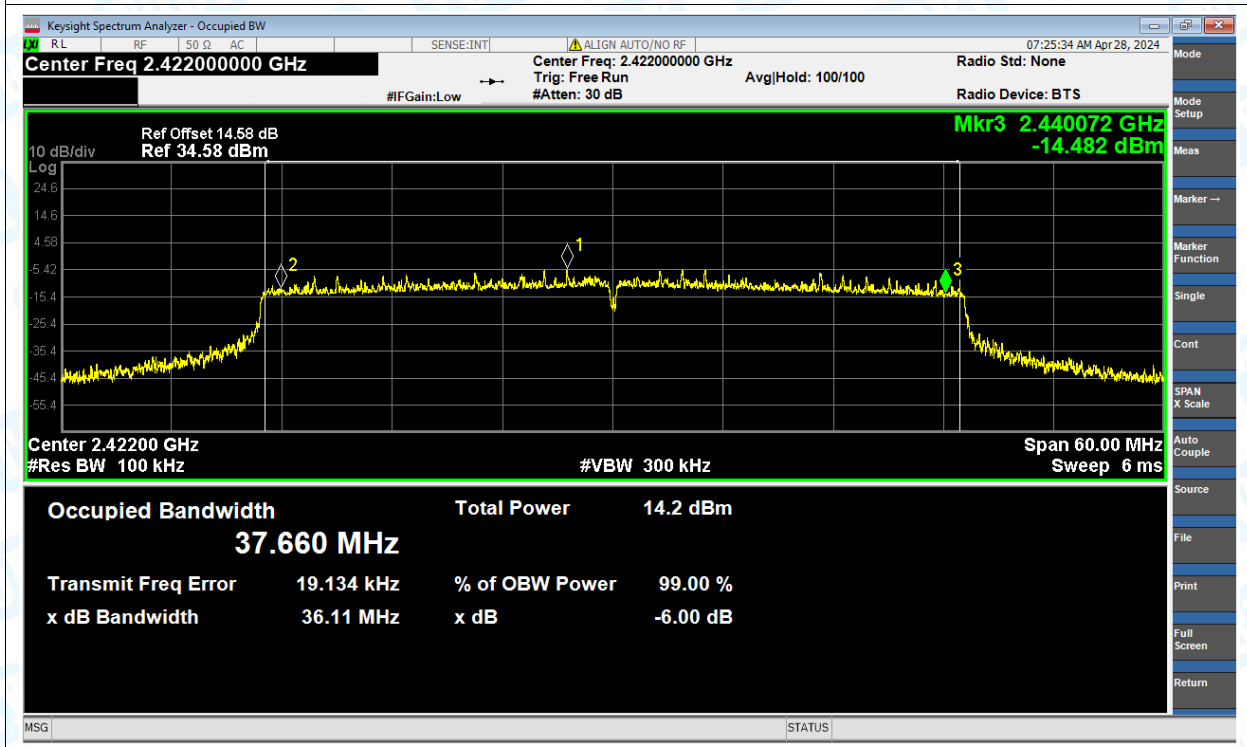
-6dB Bandwidth NVNT ax(VHT20) 2437MHz Ant1



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

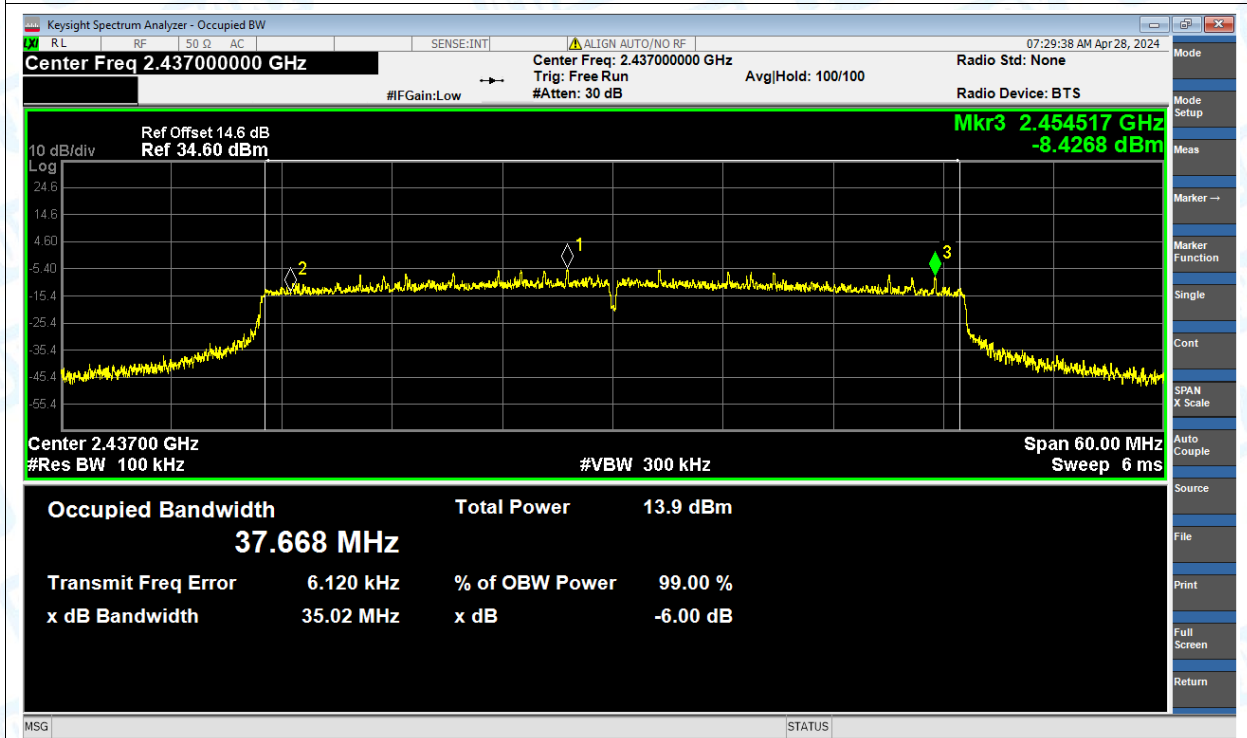


-6dB Bandwidth NVNT ax(VHT40) 2422MHz Ant1

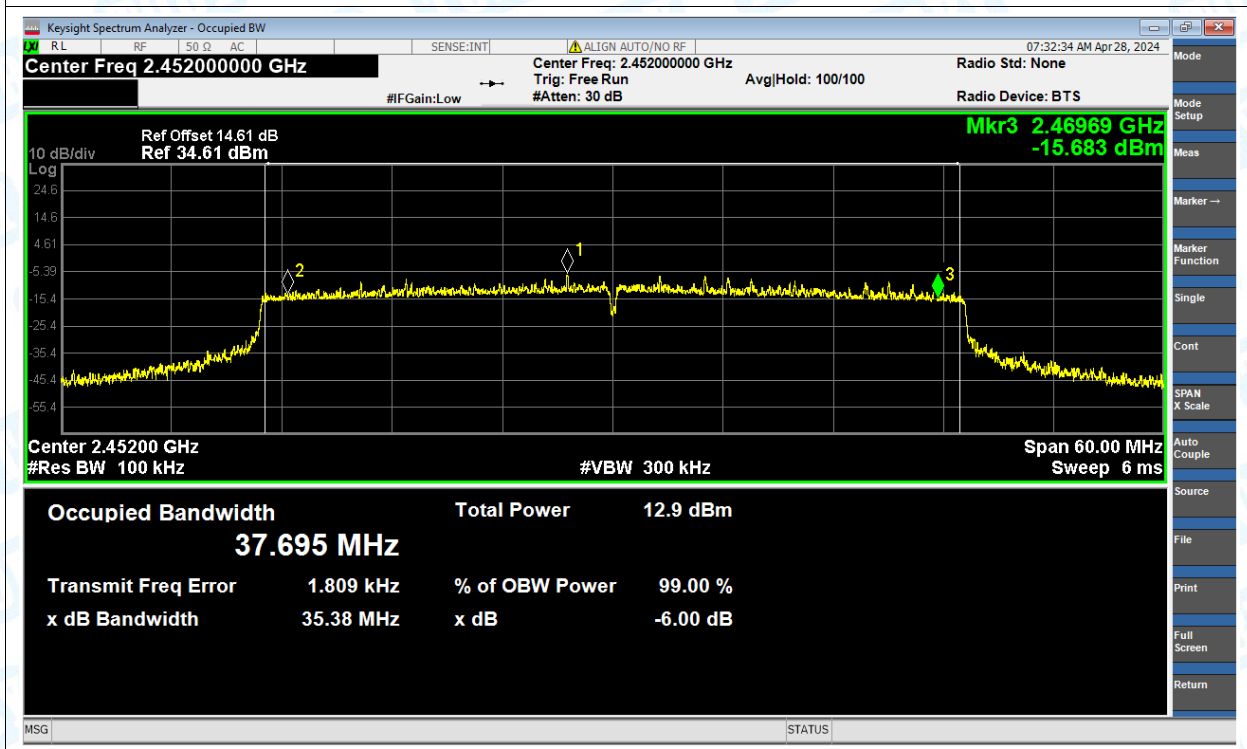




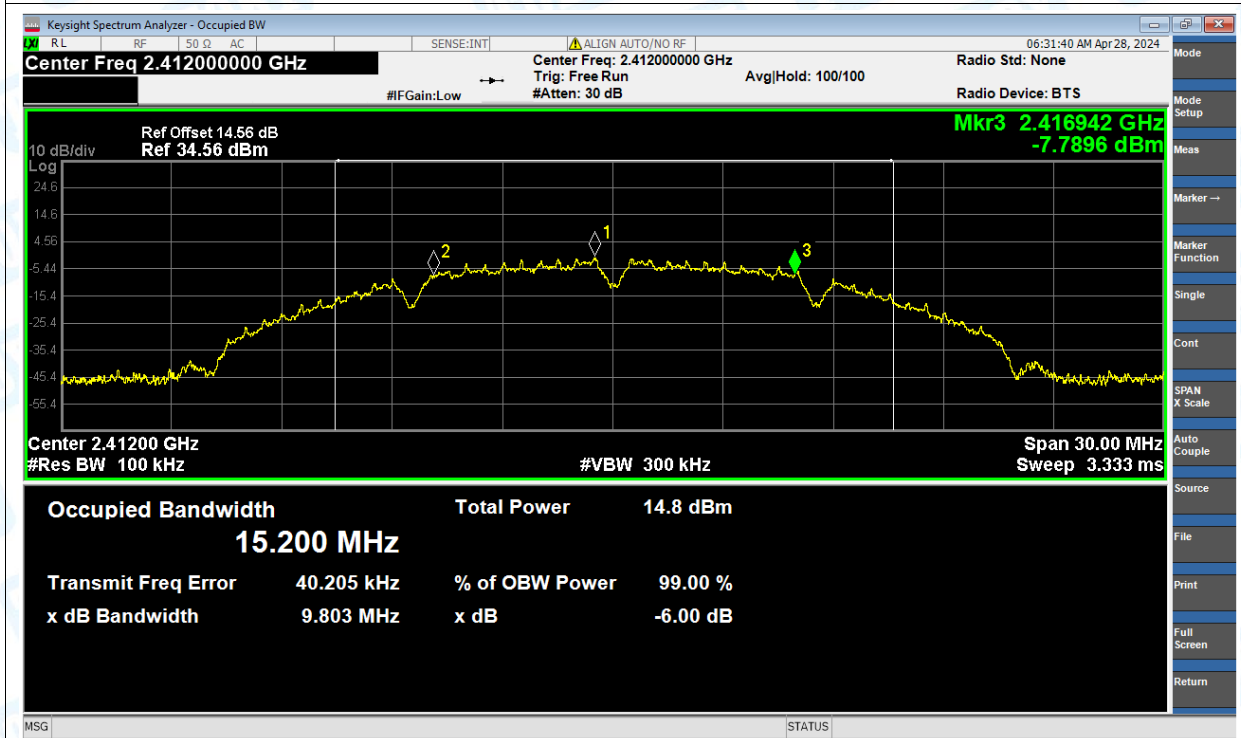
-6dB Bandwidth NVNT ax(VHT40) 2437MHz Ant1



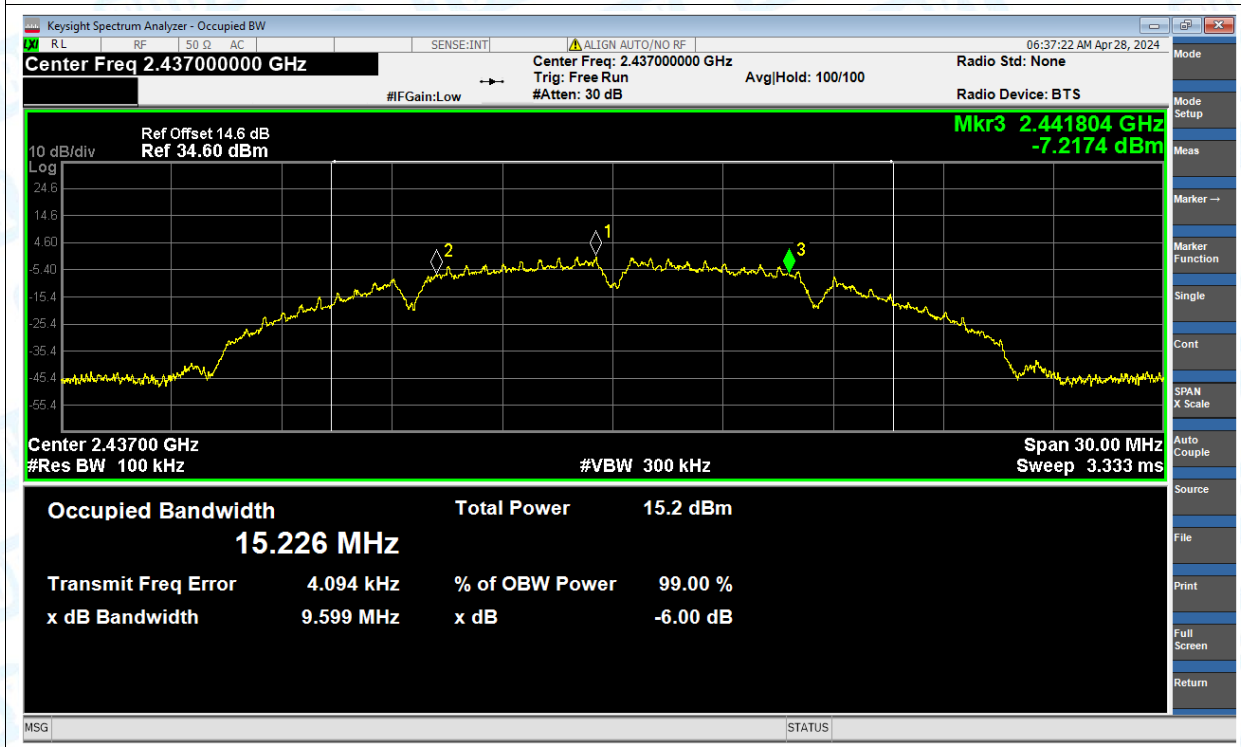
-6dB Bandwidth NVNT ax(VHT40) 2452MHz Ant1



-6dB Bandwidth NVNT b 2412MHz Ant1

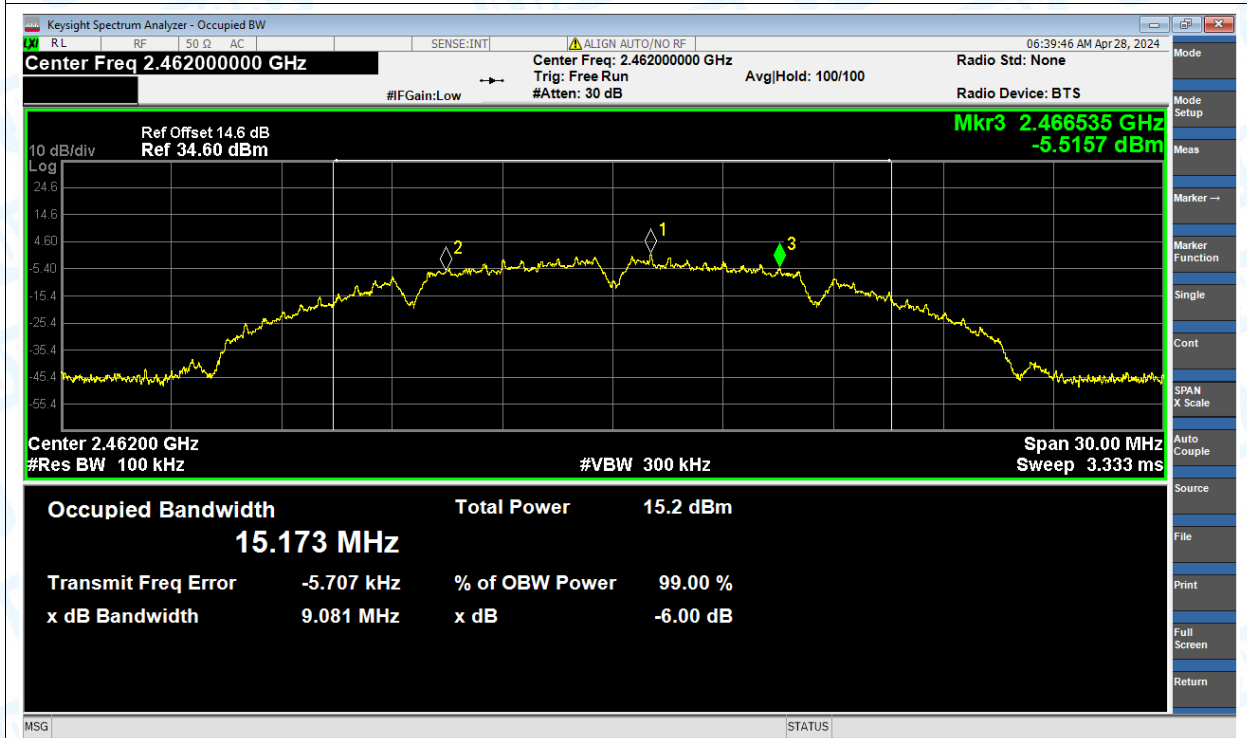


-6dB Bandwidth NVNT b 2437MHz Ant1

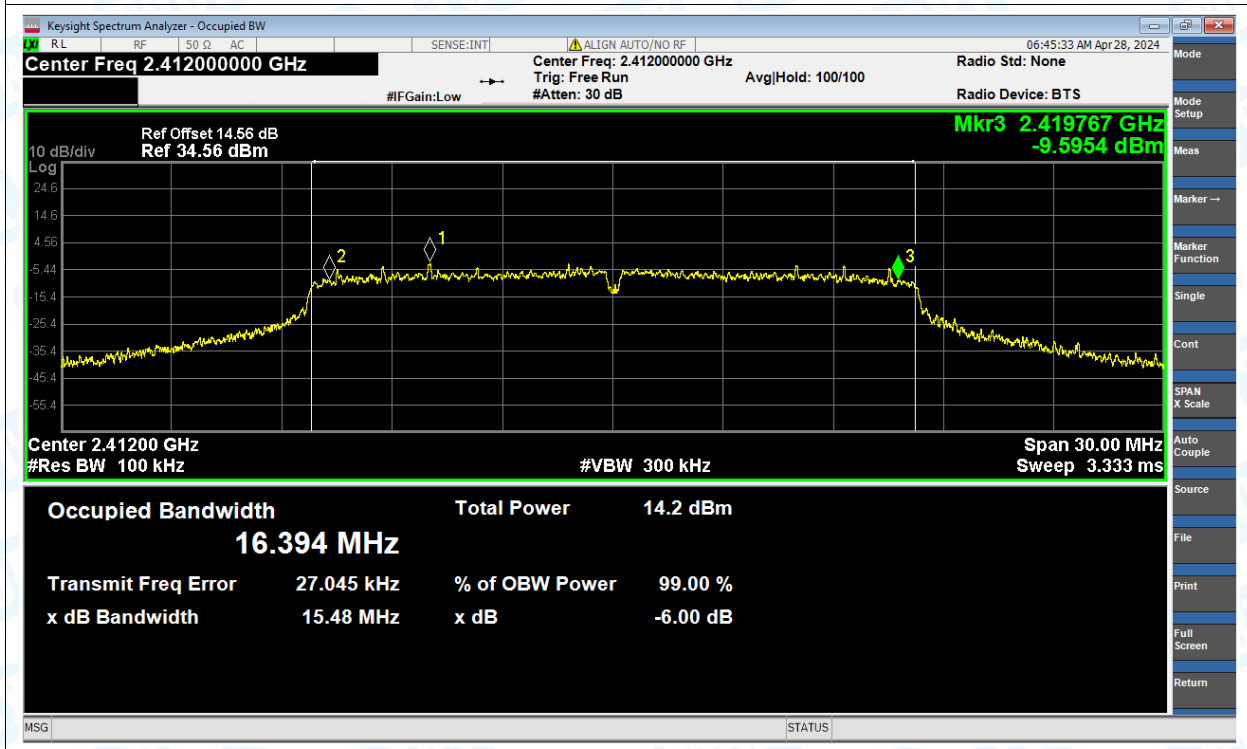




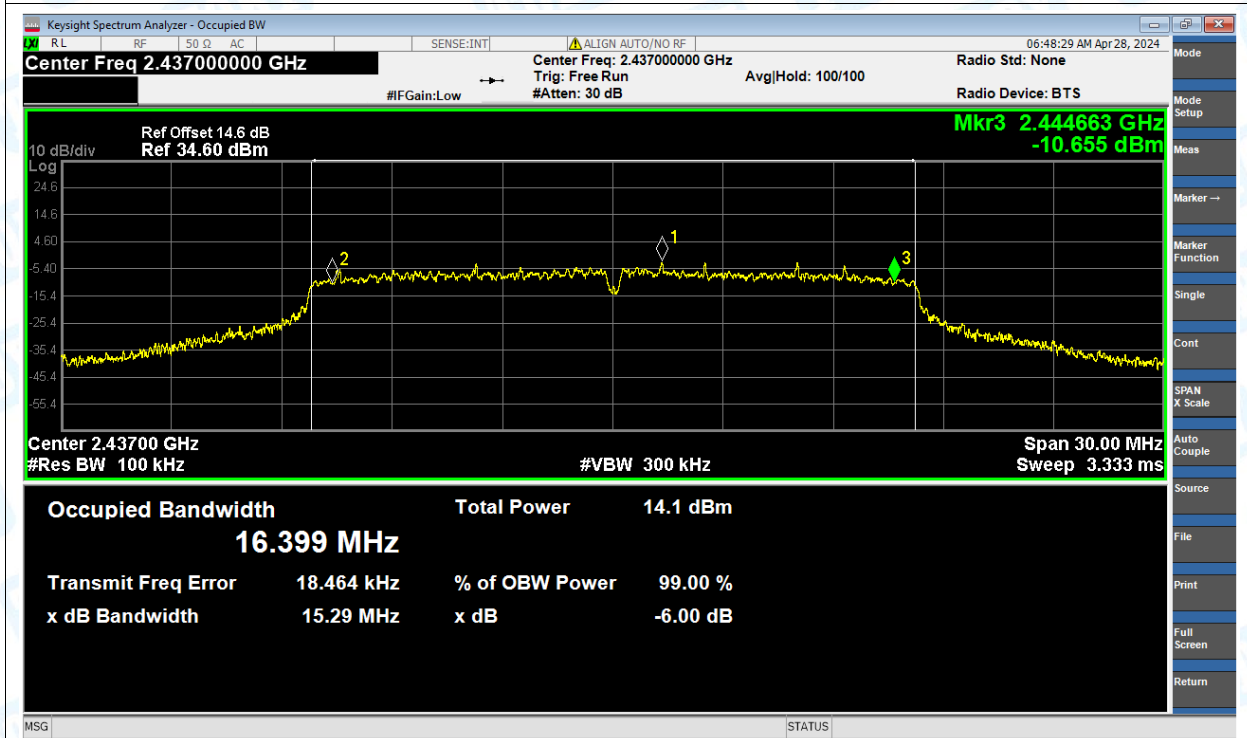
-6dB Bandwidth NVNT b 2462MHz Ant1



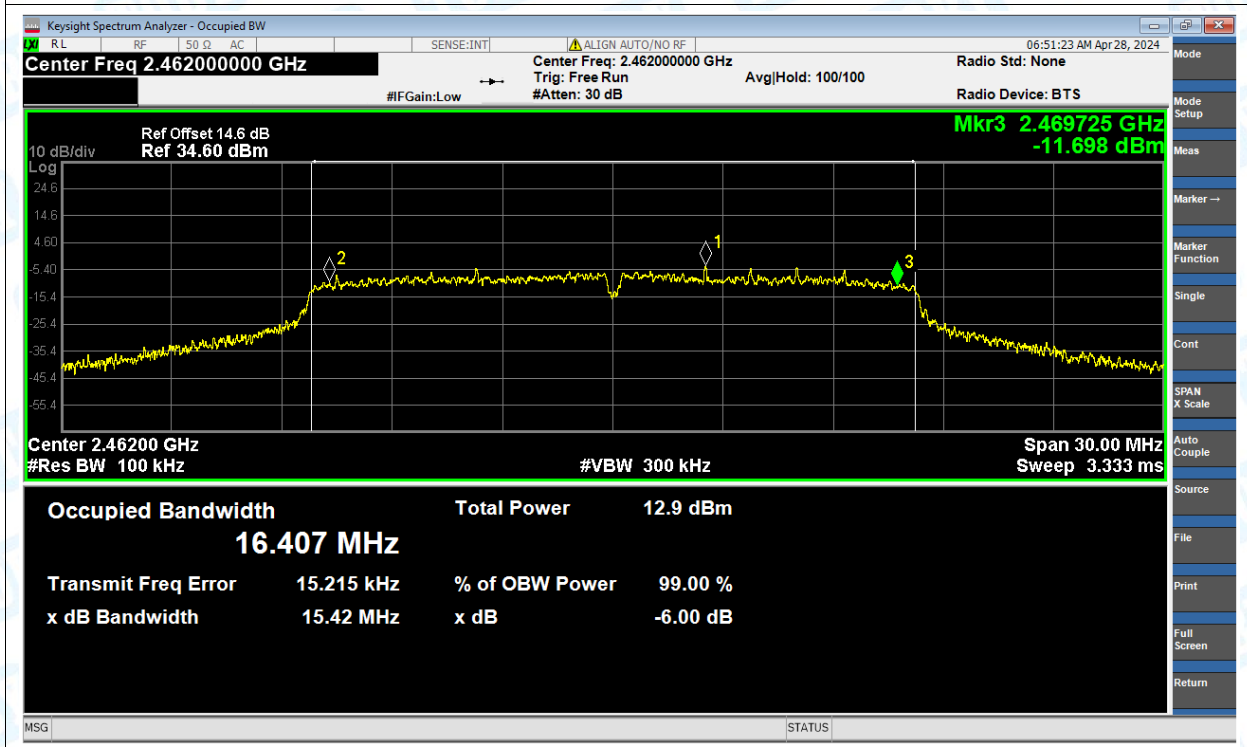
-6dB Bandwidth NVNT g 2412MHz Ant1



-6dB Bandwidth NVNT g 2437MHz Ant1

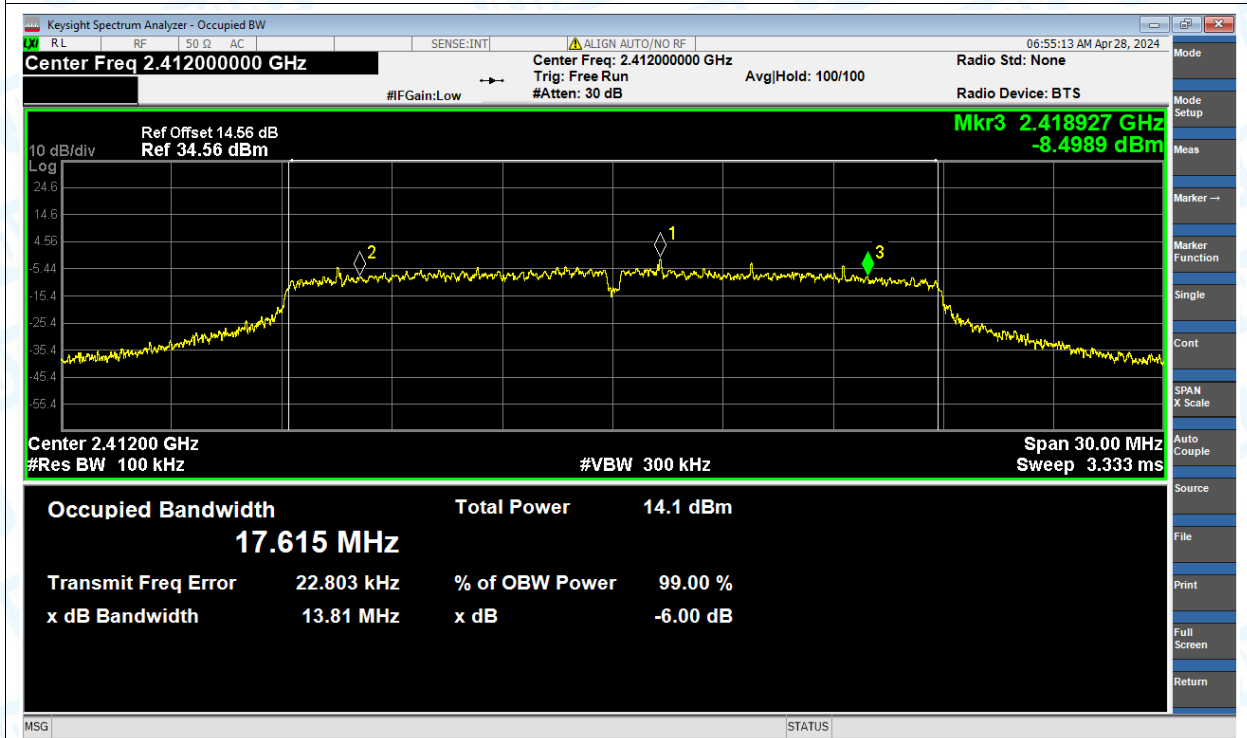


-6dB Bandwidth NVNT g 2462MHz Ant1

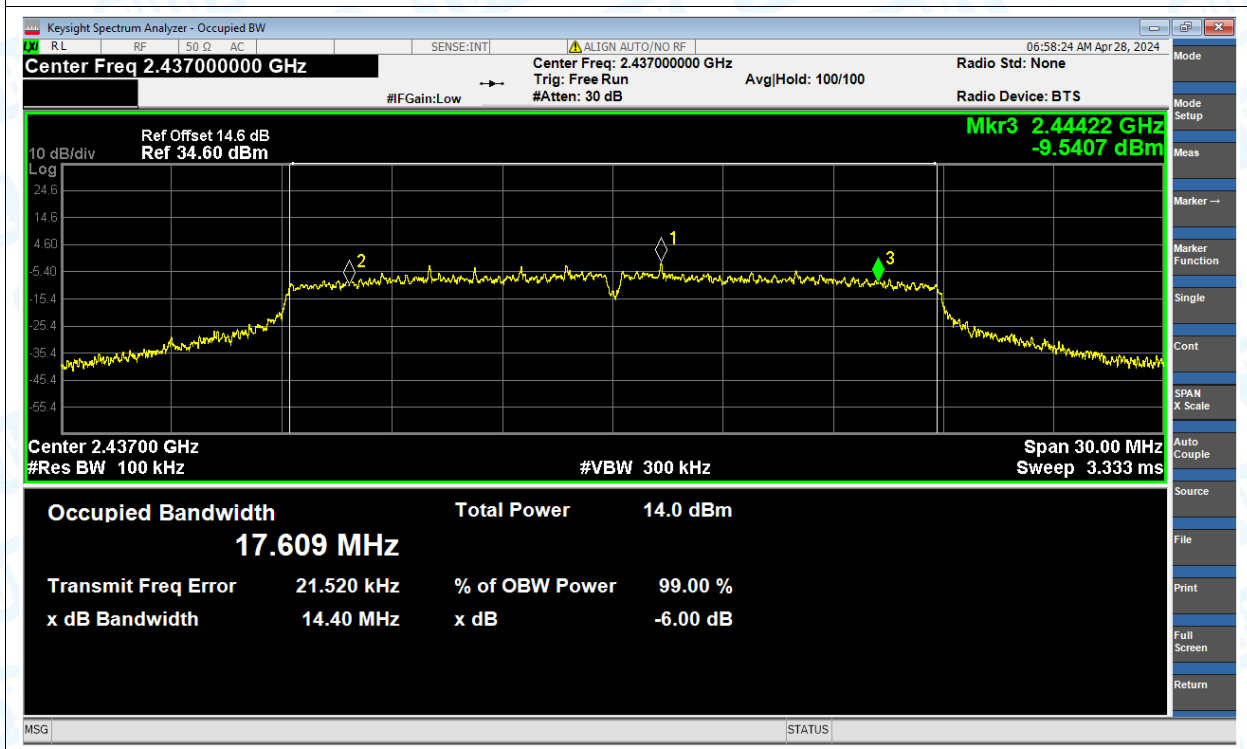




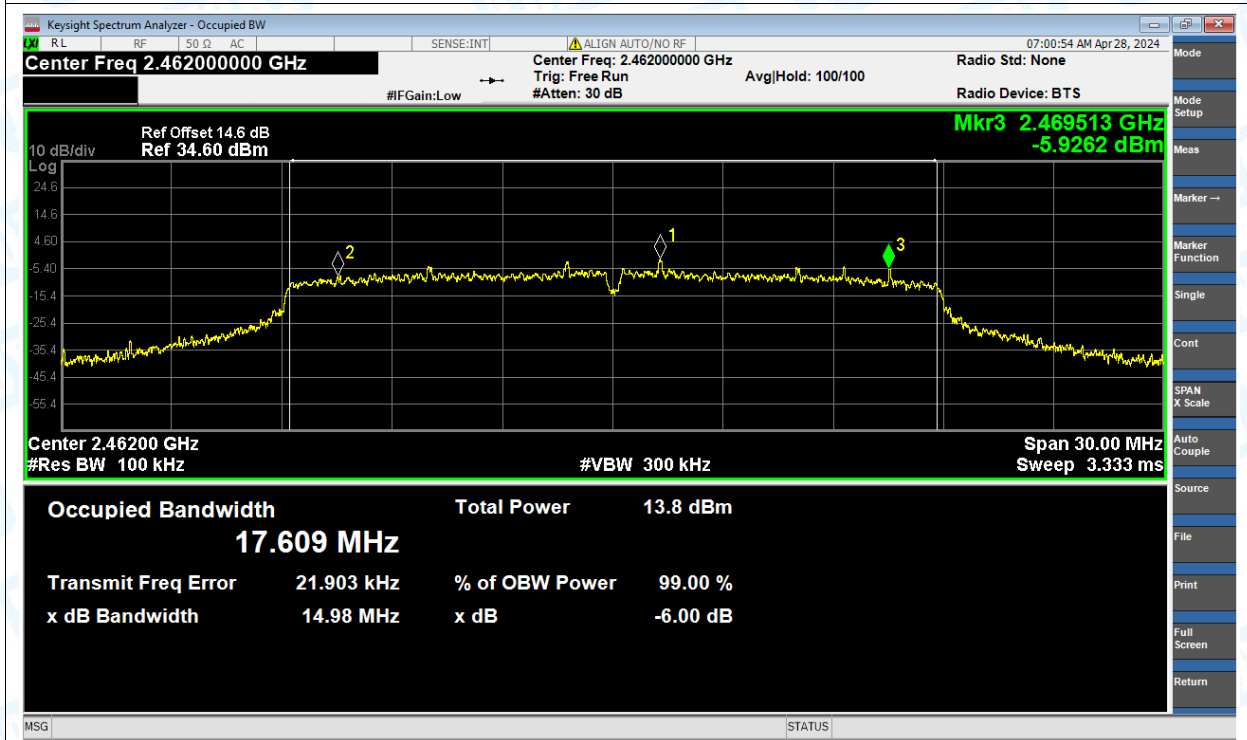
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



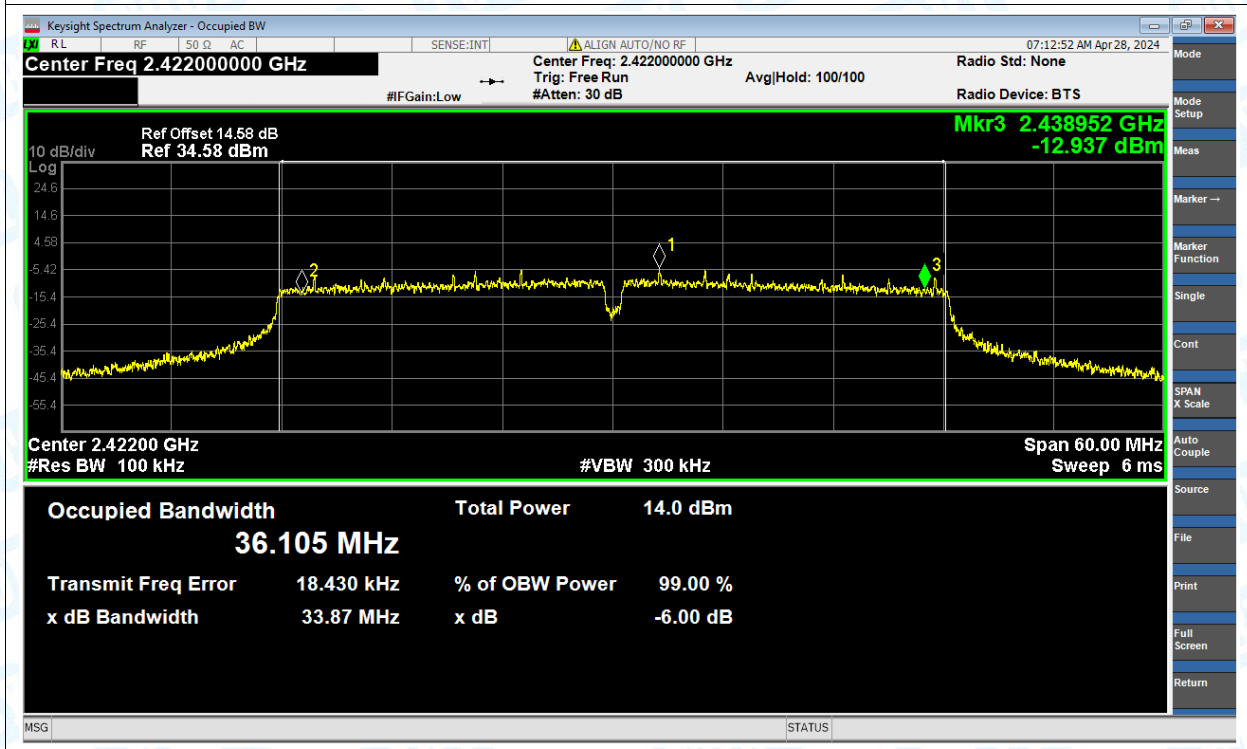
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1



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

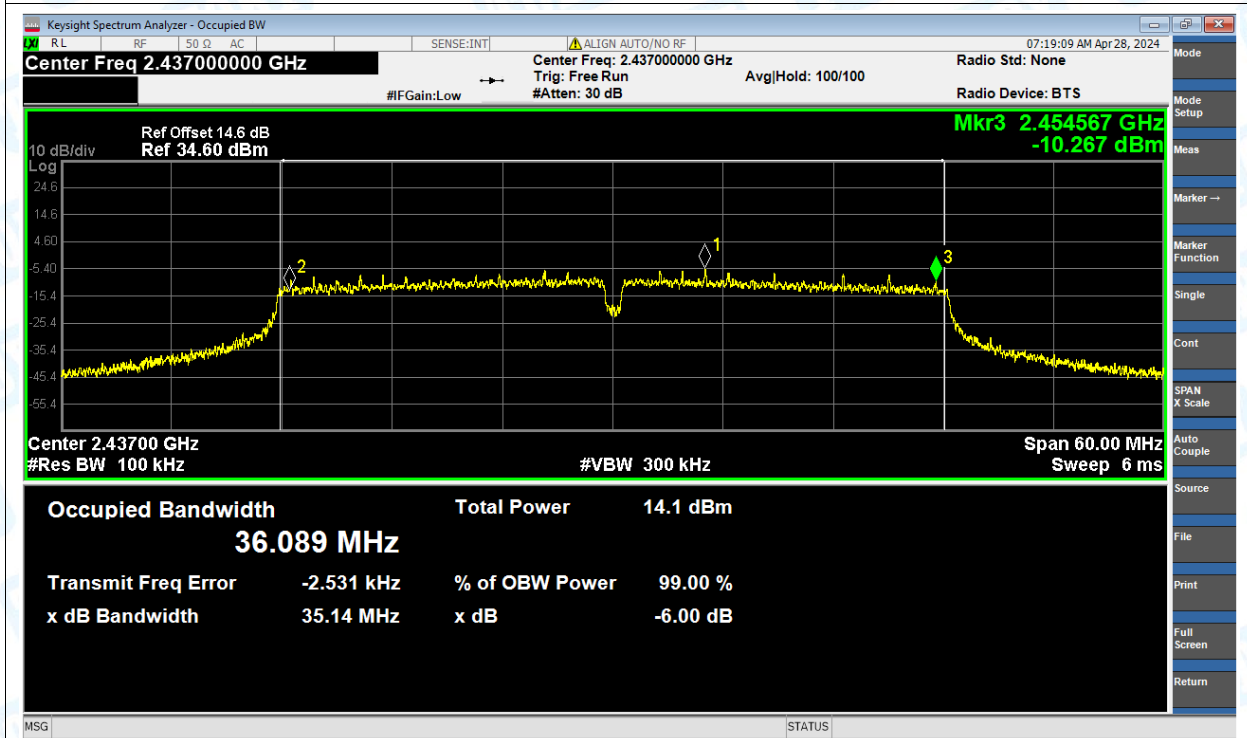


-6dB Bandwidth NVNT n(HT40) 2422MHz Ant1

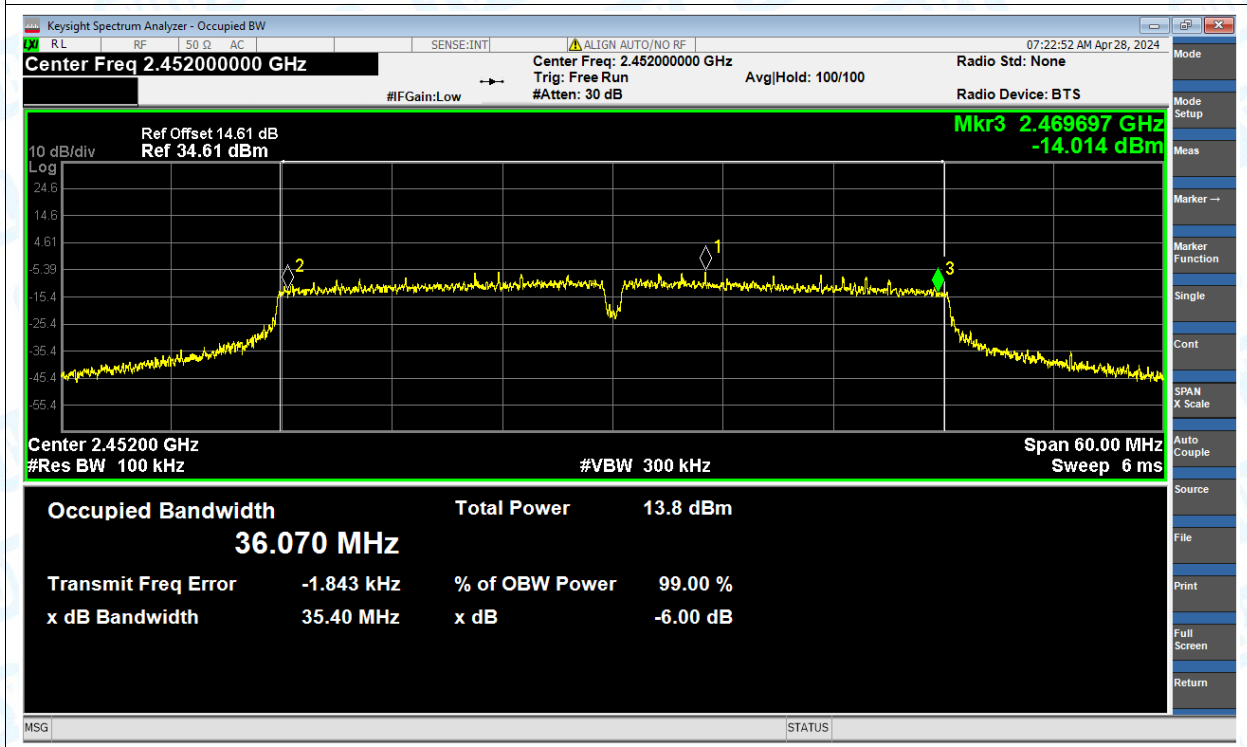




-6dB Bandwidth NVNT n(HT40) 2437MHz Ant1



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



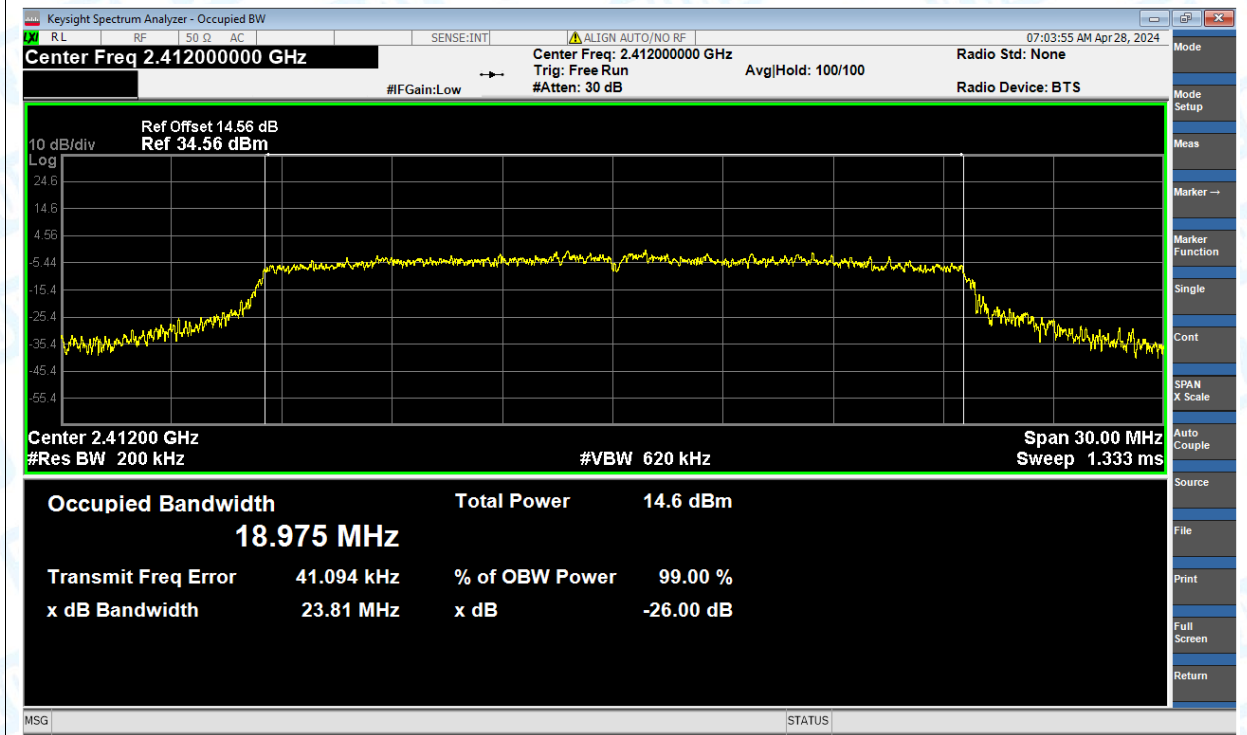
## 4. Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ax(VHT20)	2412	Ant1	18.975
NVNT	ax(VHT20)	2437	Ant1	18.947
NVNT	ax(VHT20)	2462	Ant1	18.931
NVNT	ax(VHT40)	2422	Ant1	37.754
NVNT	ax(VHT40)	2437	Ant1	37.759
NVNT	ax(VHT40)	2452	Ant1	37.71
NVNT	b	2412	Ant1	15.247
NVNT	b	2437	Ant1	15.247
NVNT	b	2462	Ant1	15.216
NVNT	g	2412	Ant1	16.499
NVNT	g	2437	Ant1	16.512
NVNT	g	2462	Ant1	16.52
NVNT	n(HT20)	2412	Ant1	17.727
NVNT	n(HT20)	2437	Ant1	17.707
NVNT	n(HT20)	2462	Ant1	17.728
NVNT	n(HT40)	2422	Ant1	36.342
NVNT	n(HT40)	2437	Ant1	36.391
NVNT	n(HT40)	2452	Ant1	36.398

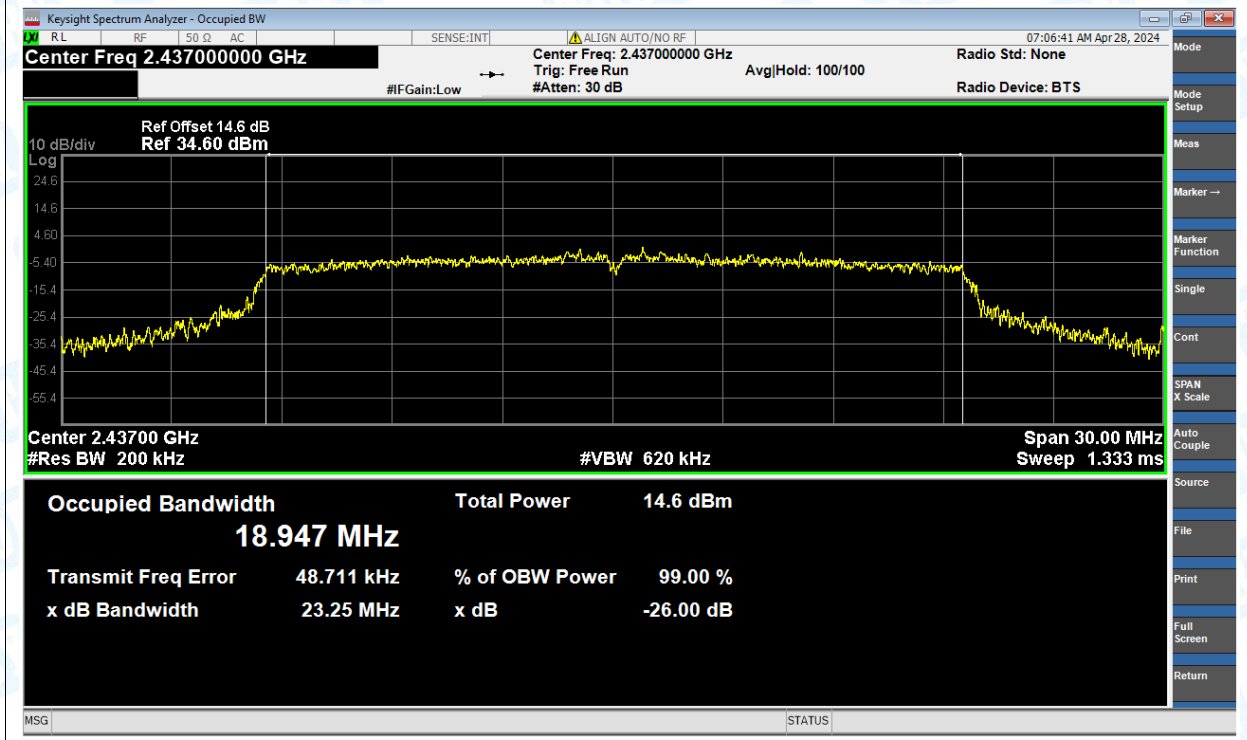


Test Graphs

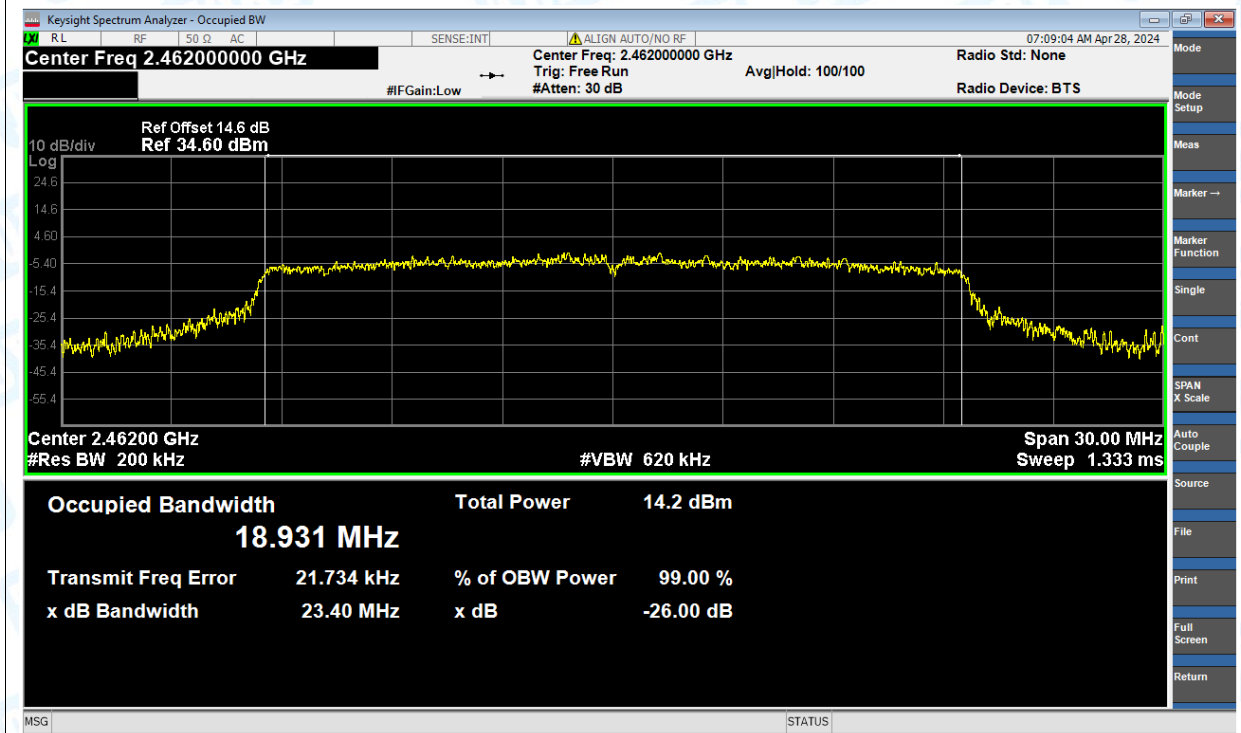
OBW NVNT ax(VHT20) 2412MHz Ant1



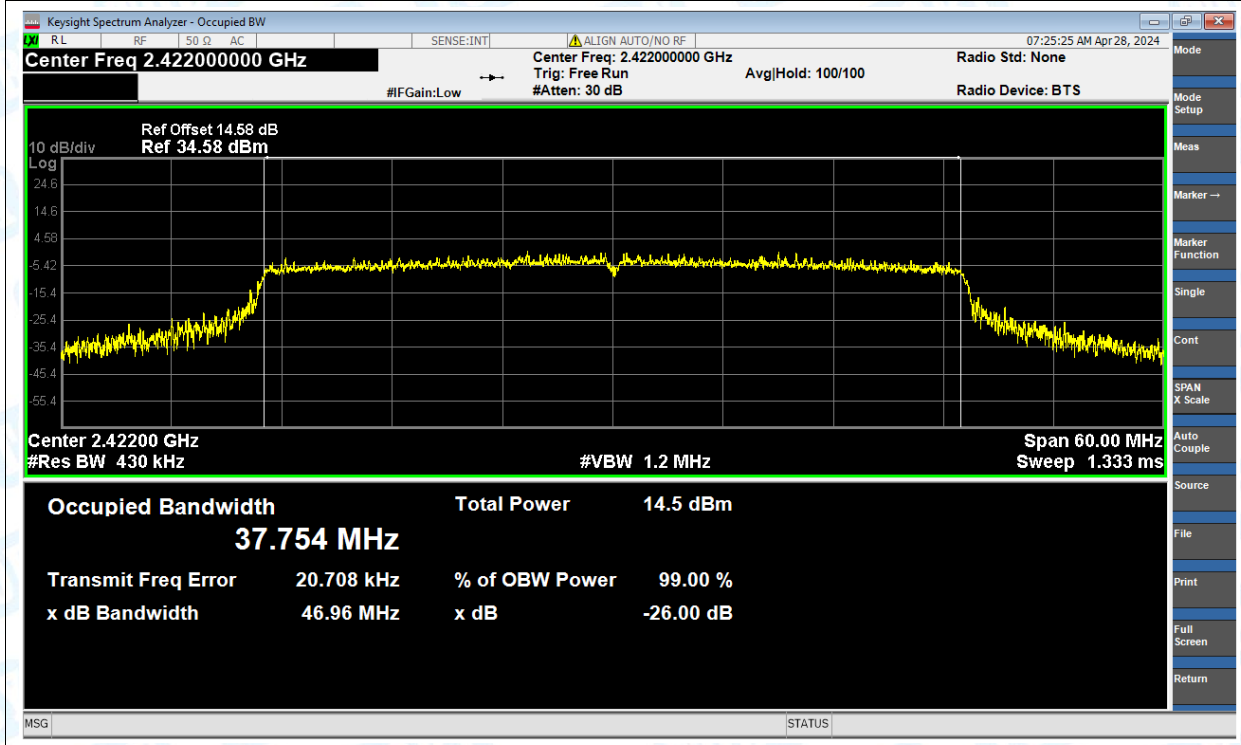
OBW NVNT ax(VHT20) 2437MHz Ant1



OBW NVNT ax(VHT20) 2462MHz Ant1

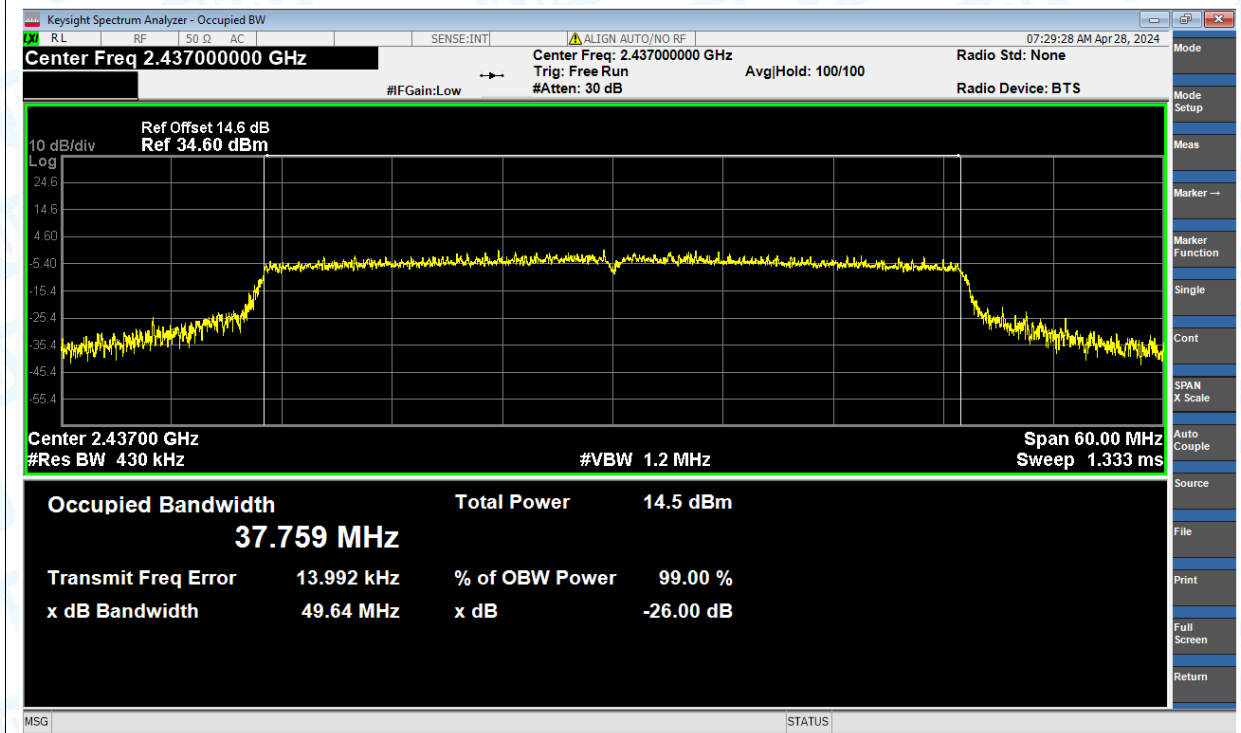


OBW NVNT ax(VHT40) 2422MHz Ant1

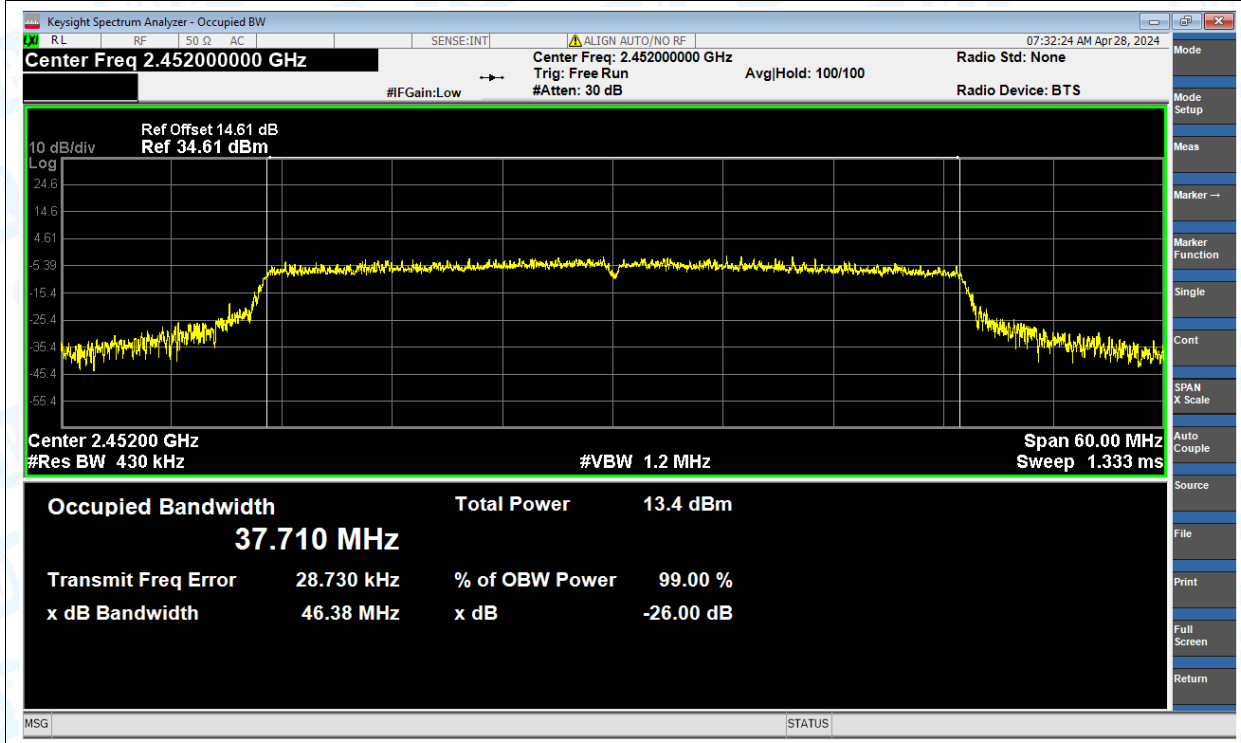




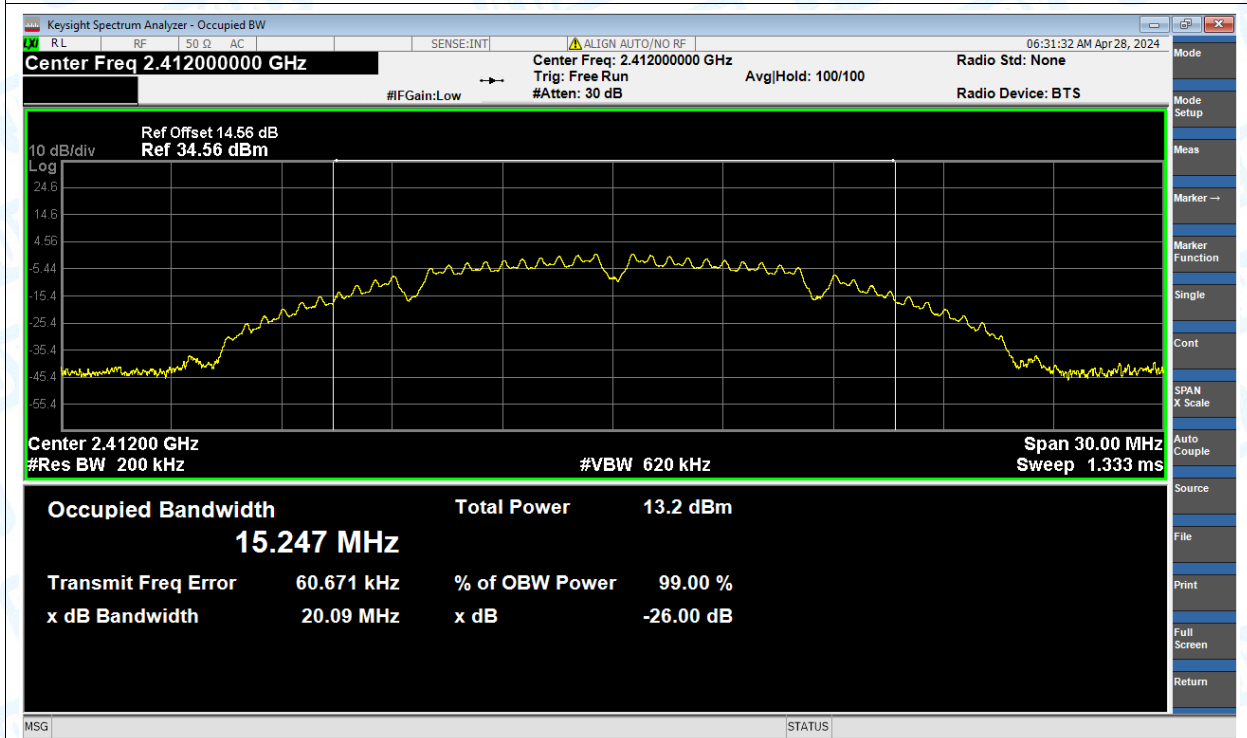
OBW NVNT ax(VHT40) 2437MHz Ant1



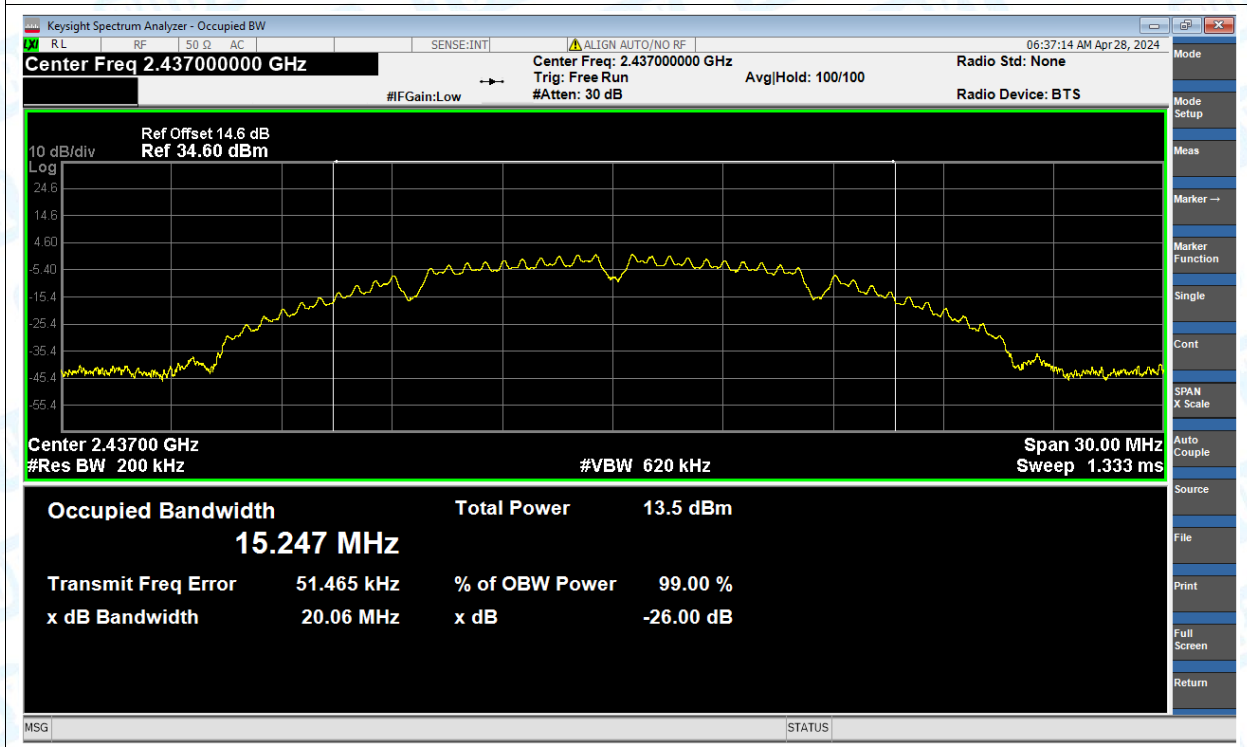
OBW NVNT ax(VHT40) 2452MHz Ant1



OBW NVNT b 2412MHz Ant1

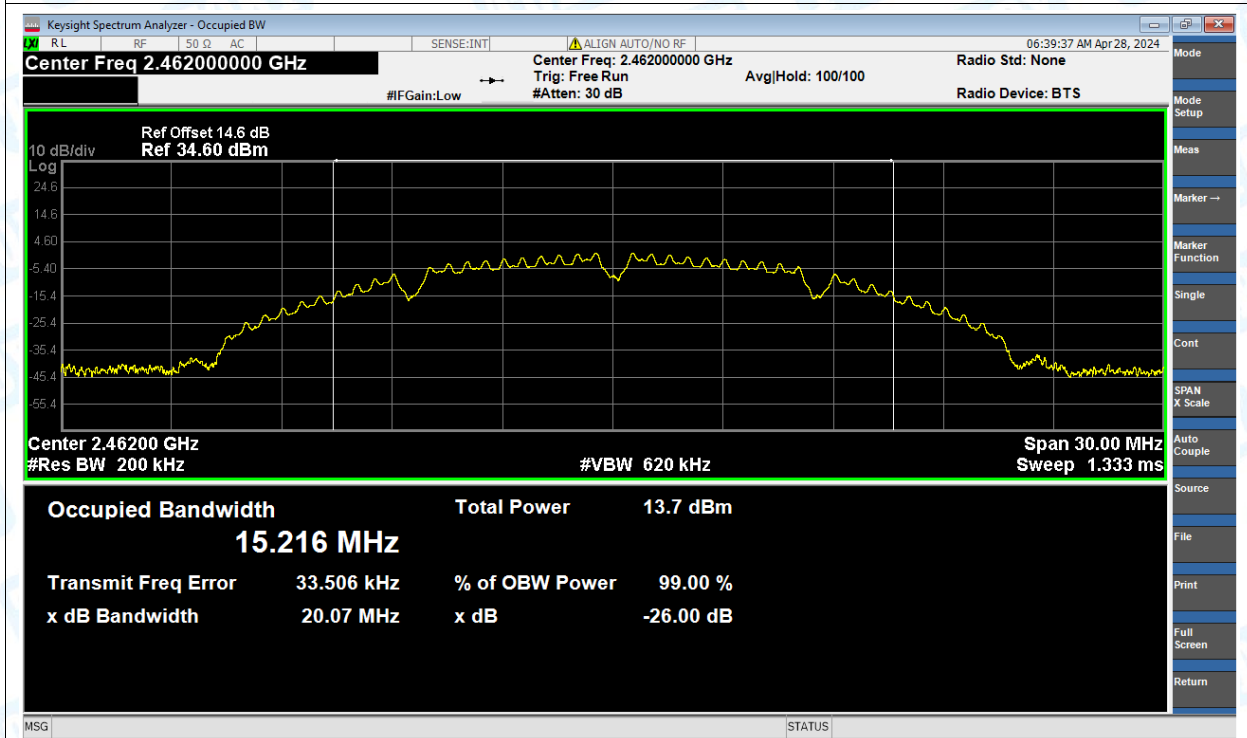


OBW NVNT b 2437MHz Ant1

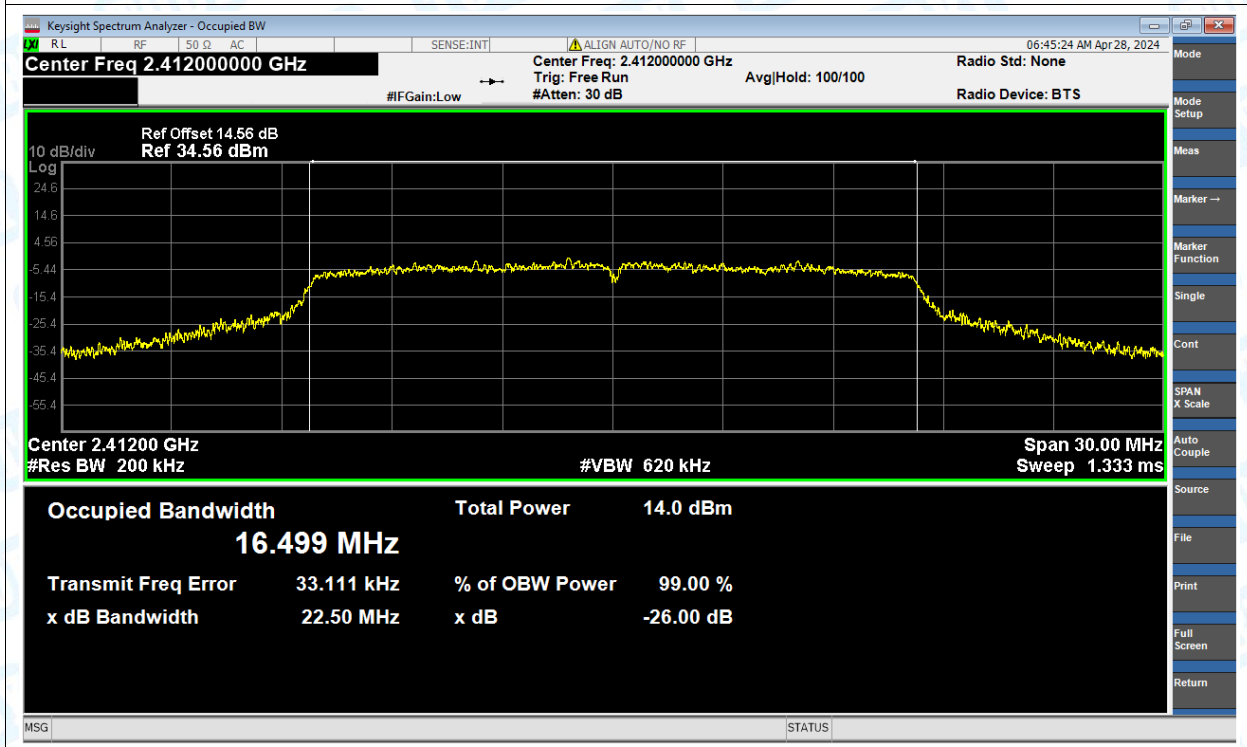




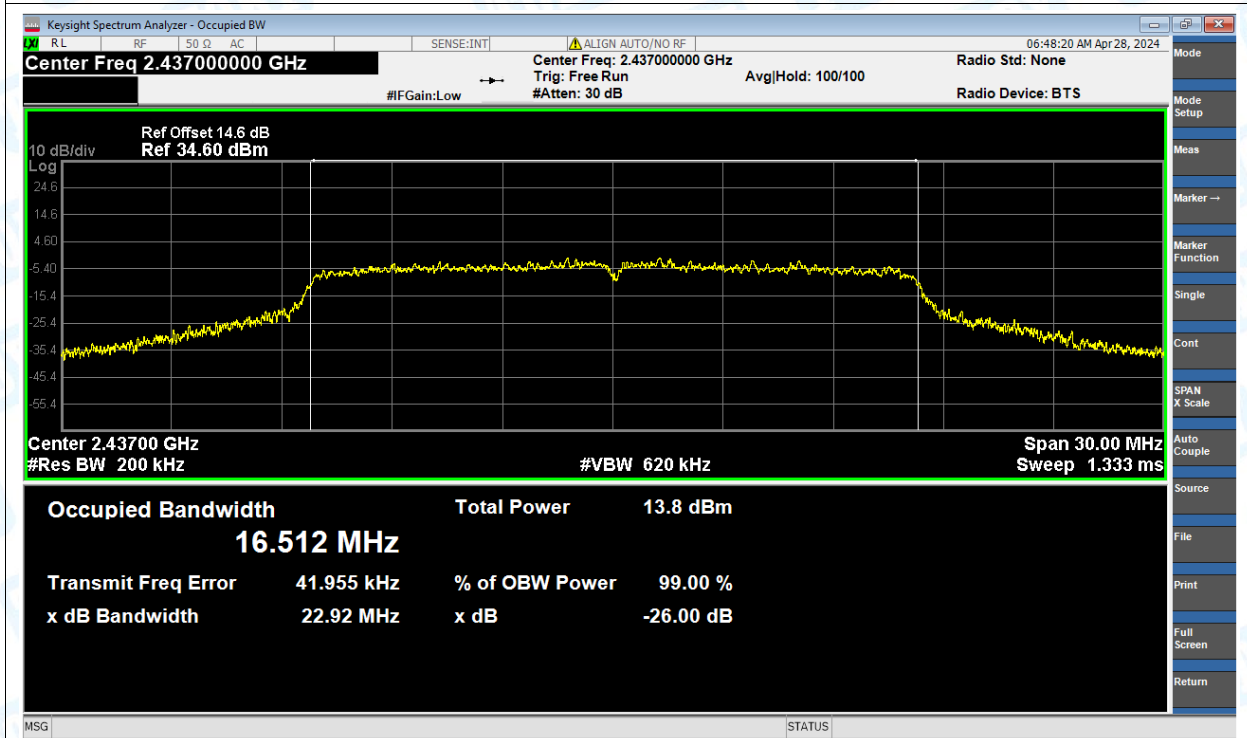
OBW NVNT b 2462MHz Ant1



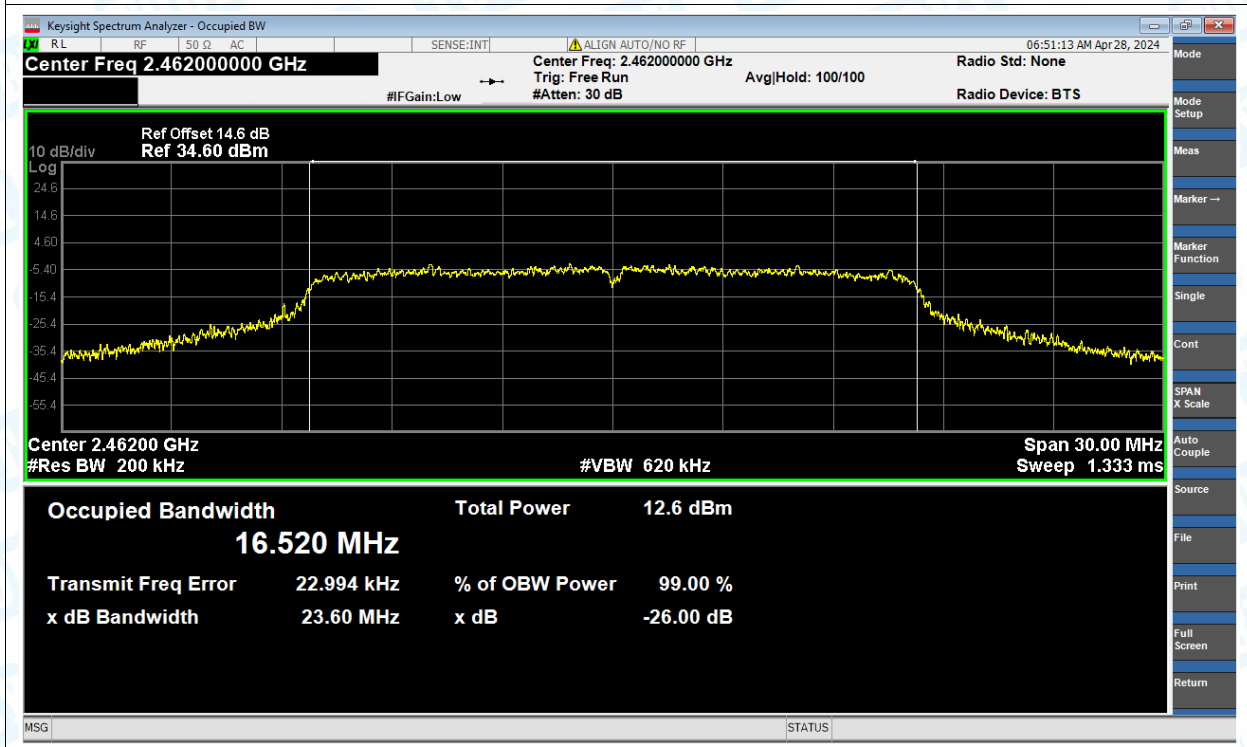
OBW NVNT g 2412MHz Ant1



OBW NVNT g 2437MHz Ant1

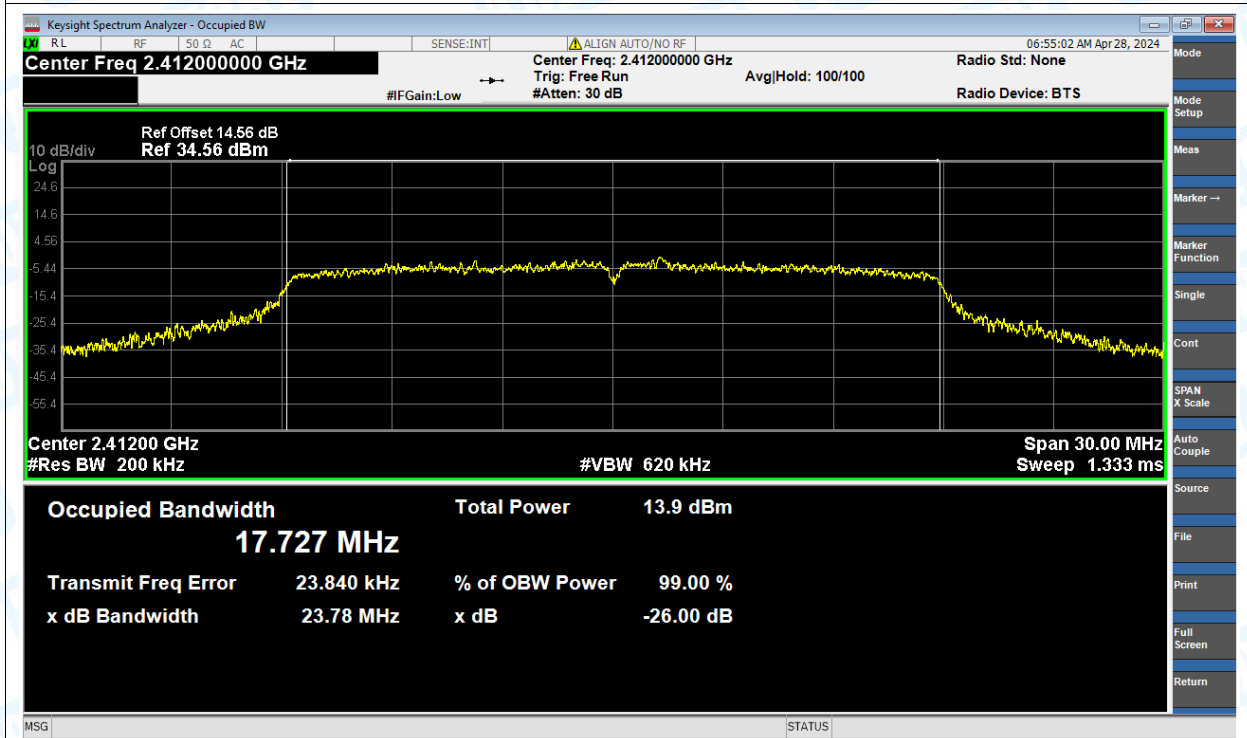


OBW NVNT g 2462MHz Ant1

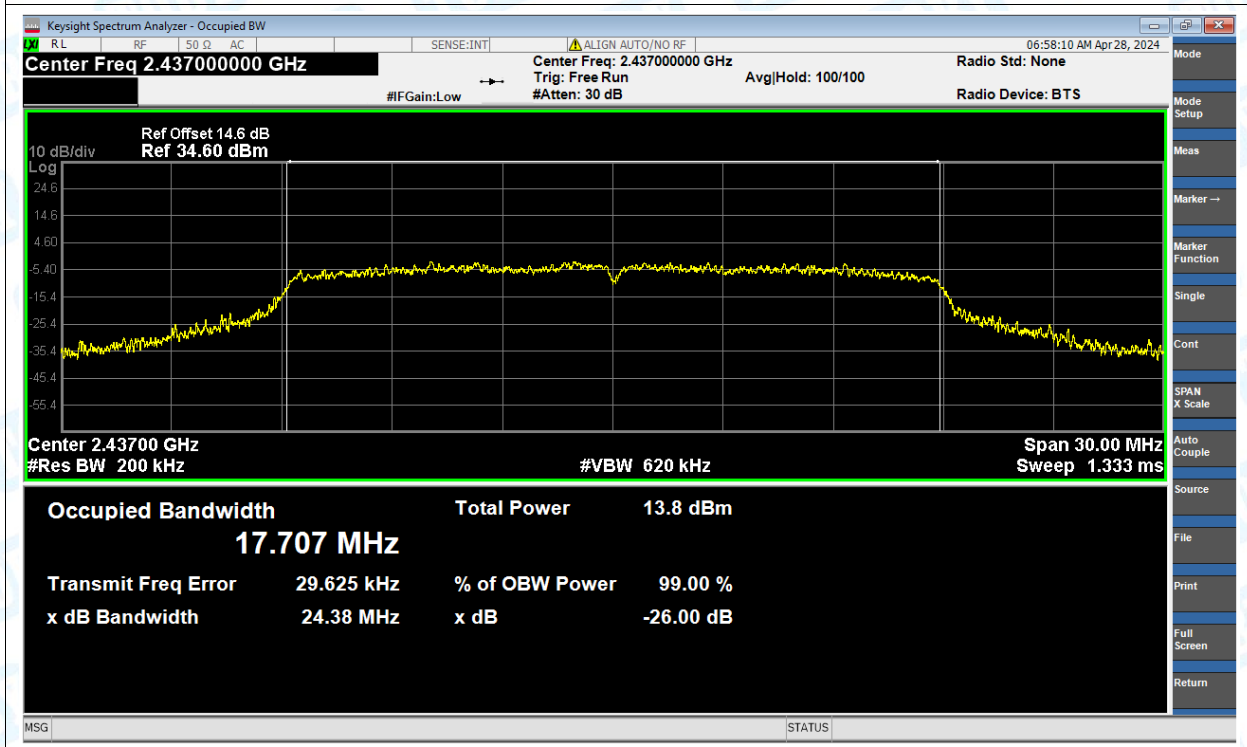




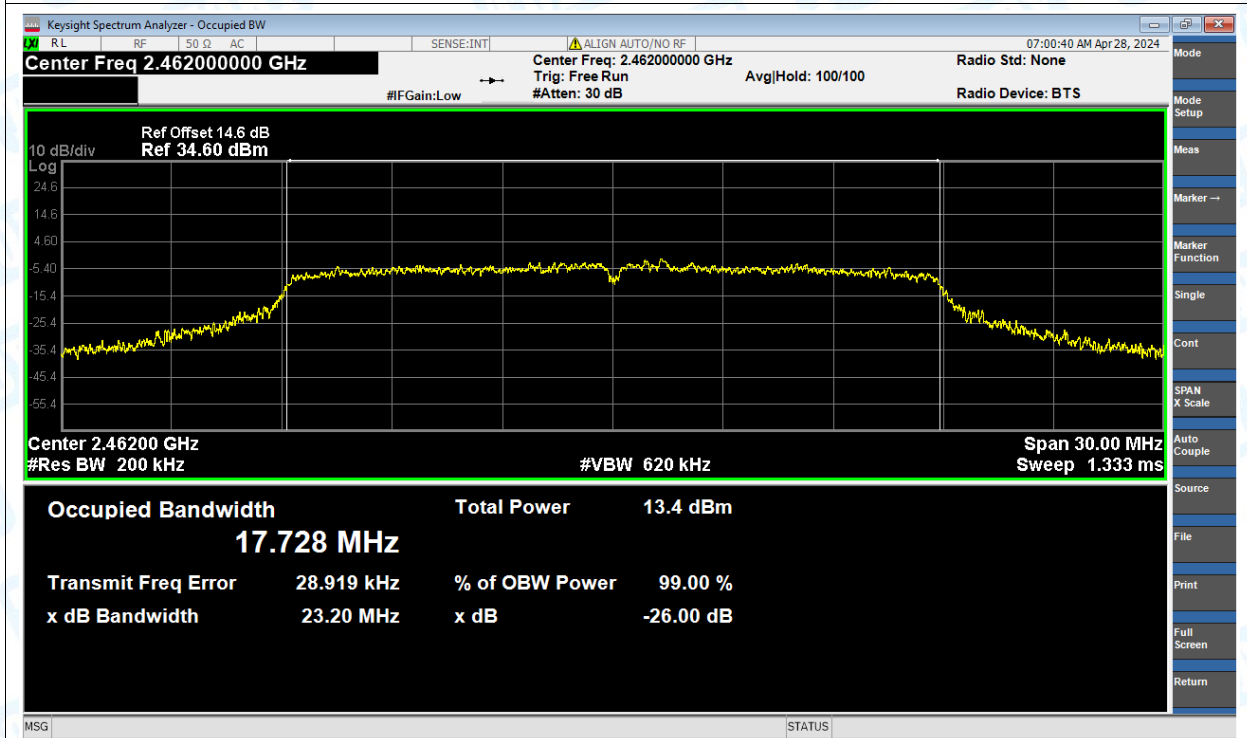
OBV NVNT n(HT20) 2412MHz Ant1



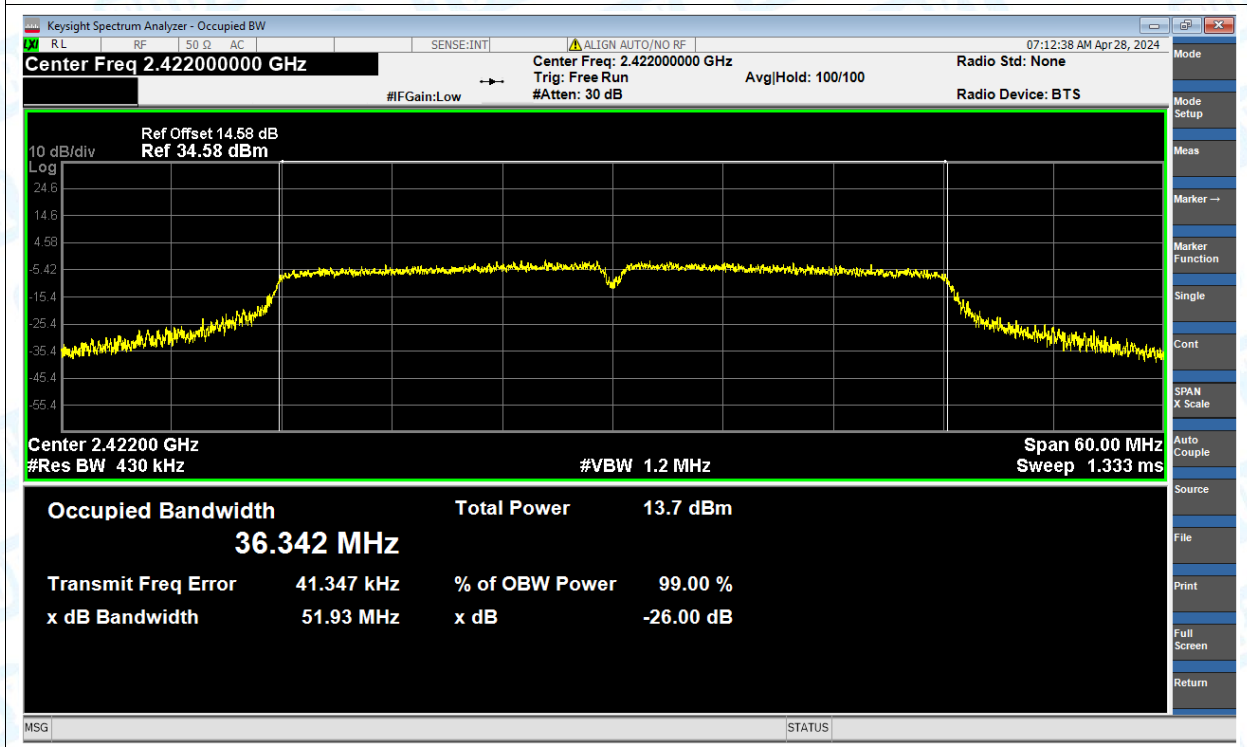
OBV NVNT n(HT20) 2437MHz Ant1



OBV NVNT n(HT20) 2462MHz Ant1

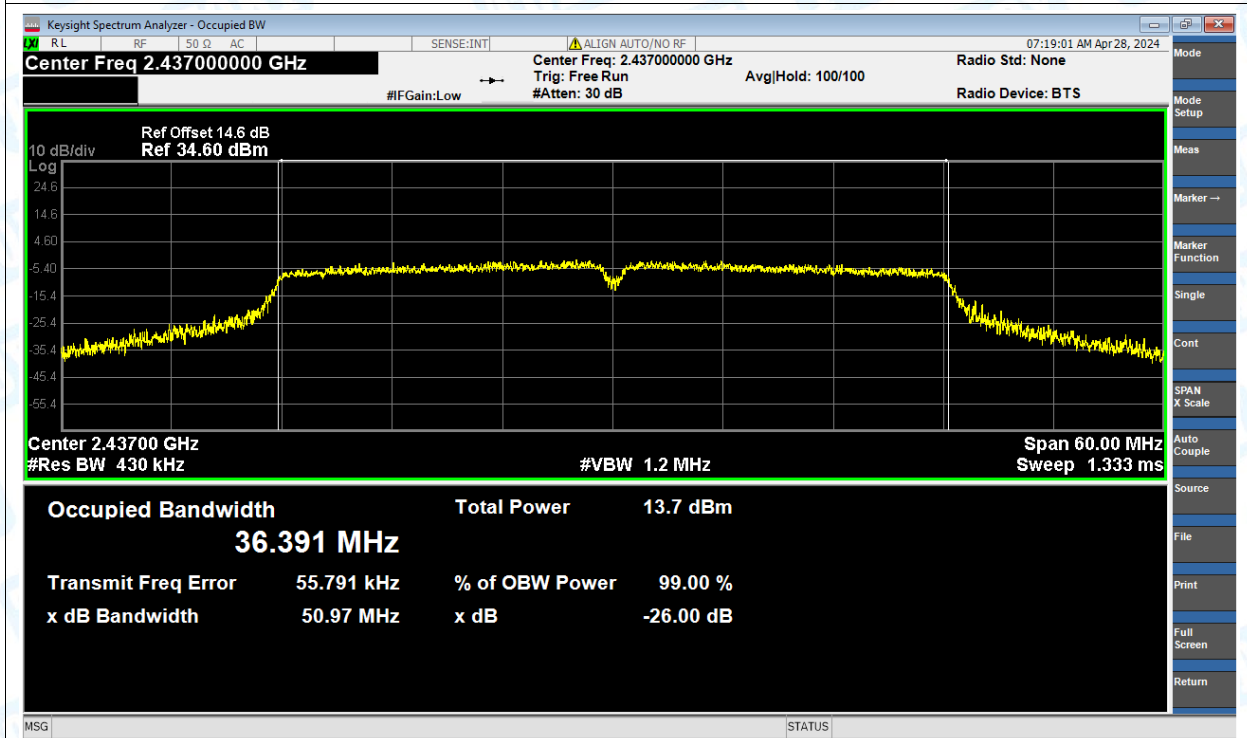


OBV NVNT n(HT40) 2422MHz Ant1

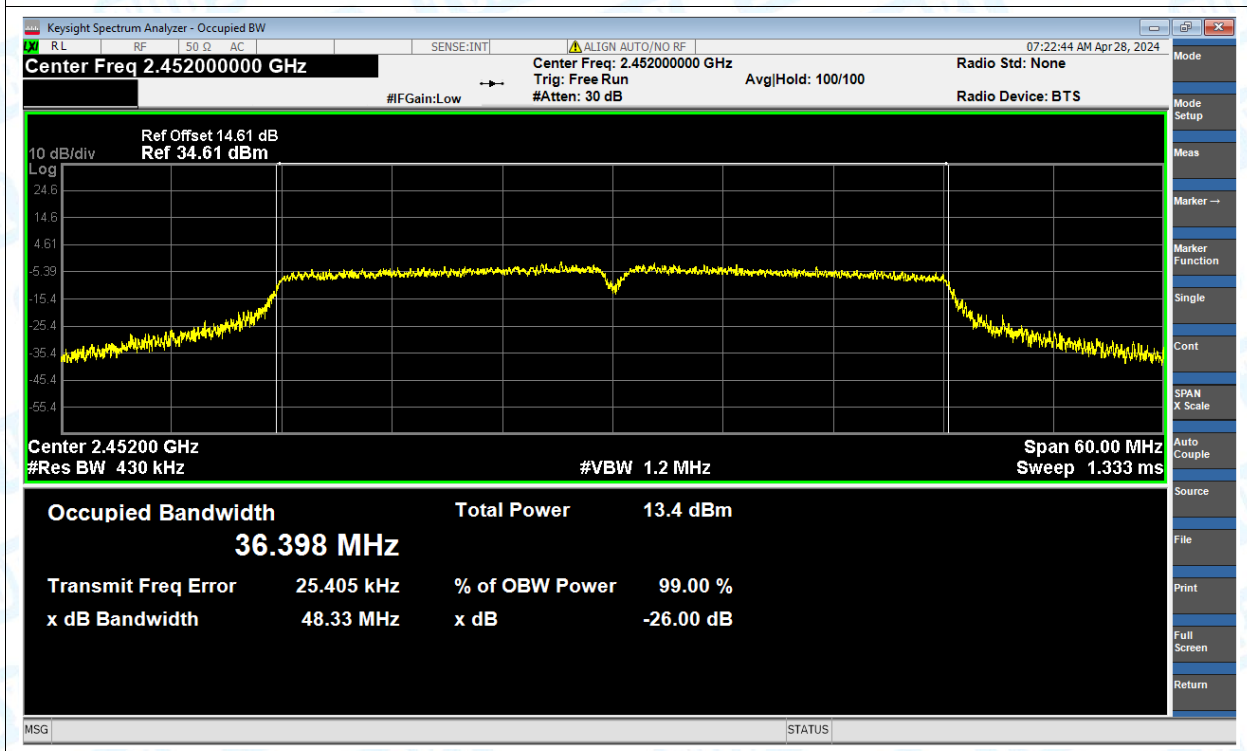




OBW NVNT n(HT40) 2437MHz Ant1



OBW NVNT n(HT40) 2452MHz Ant1



## 5. Maximum Power Spectral Density Level

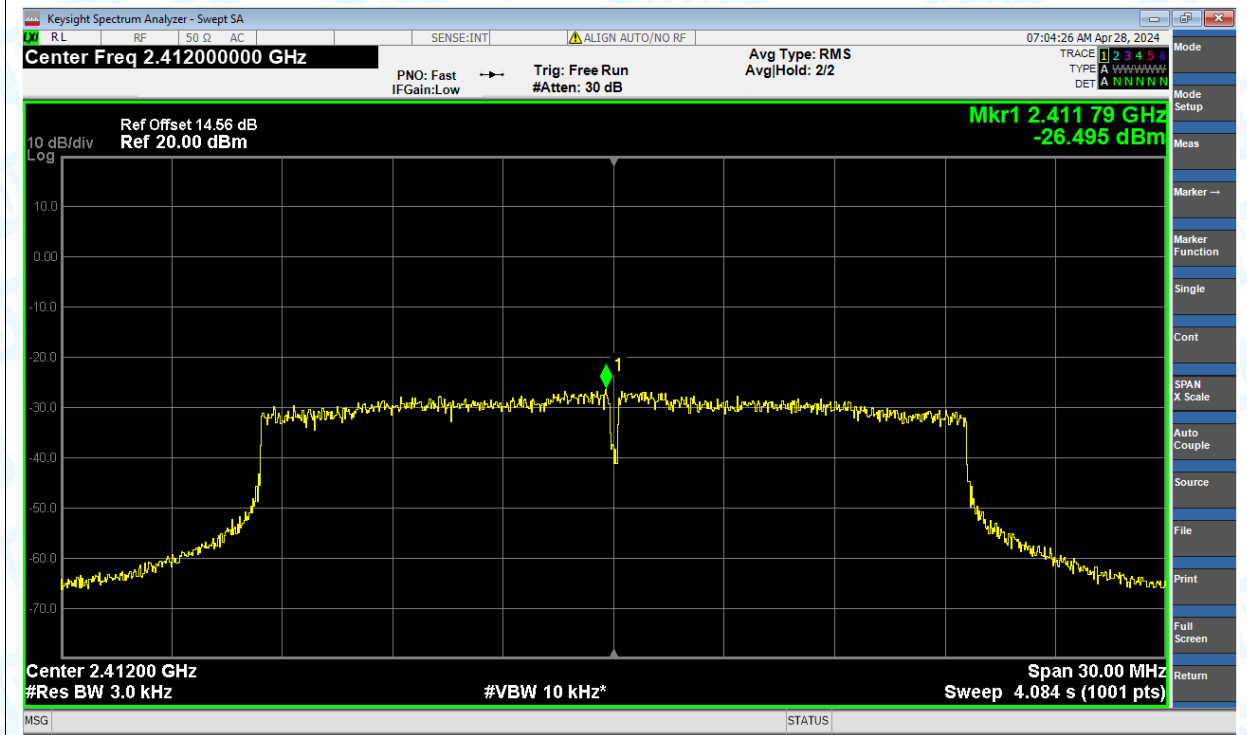
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-26.495	8	Pass
NVNT	ax(VHT20)	2437	Ant1	-26.354	8	Pass
NVNT	ax(VHT20)	2462	Ant1	-26.653	8	Pass
NVNT	ax(VHT40)	2422	Ant1	-31.404	8	Pass
NVNT	ax(VHT40)	2437	Ant1	-31.971	8	Pass
NVNT	ax(VHT40)	2452	Ant1	-30.219	8	Pass
NVNT	b	2412	Ant1	-22.737	8	Pass
NVNT	b	2437	Ant1	-22.795	8	Pass
NVNT	b	2462	Ant1	-22.594	8	Pass
NVNT	g	2412	Ant1	-24.691	8	Pass
NVNT	g	2437	Ant1	-24.774	8	Pass
NVNT	g	2462	Ant1	-25.343	8	Pass
NVNT	n(HT20)	2412	Ant1	-25.003	8	Pass
NVNT	n(HT20)	2437	Ant1	-25.163	8	Pass
NVNT	n(HT20)	2462	Ant1	-25.566	8	Pass
NVNT	n(HT40)	2422	Ant1	-29.166	8	Pass
NVNT	n(HT40)	2437	Ant1	-29.375	8	Pass
NVNT	n(HT40)	2452	Ant1	-30.117	8	Pass

Note: The duty factor has been compensated into the result.

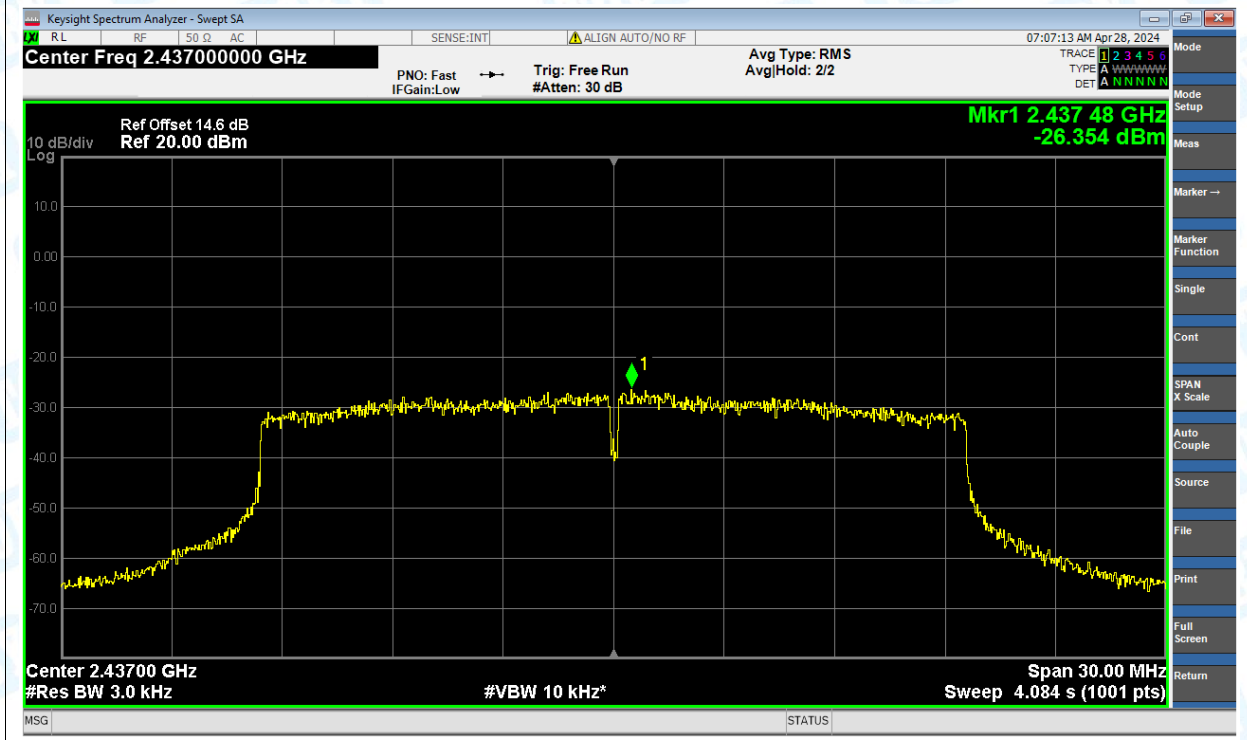


Test Graphs

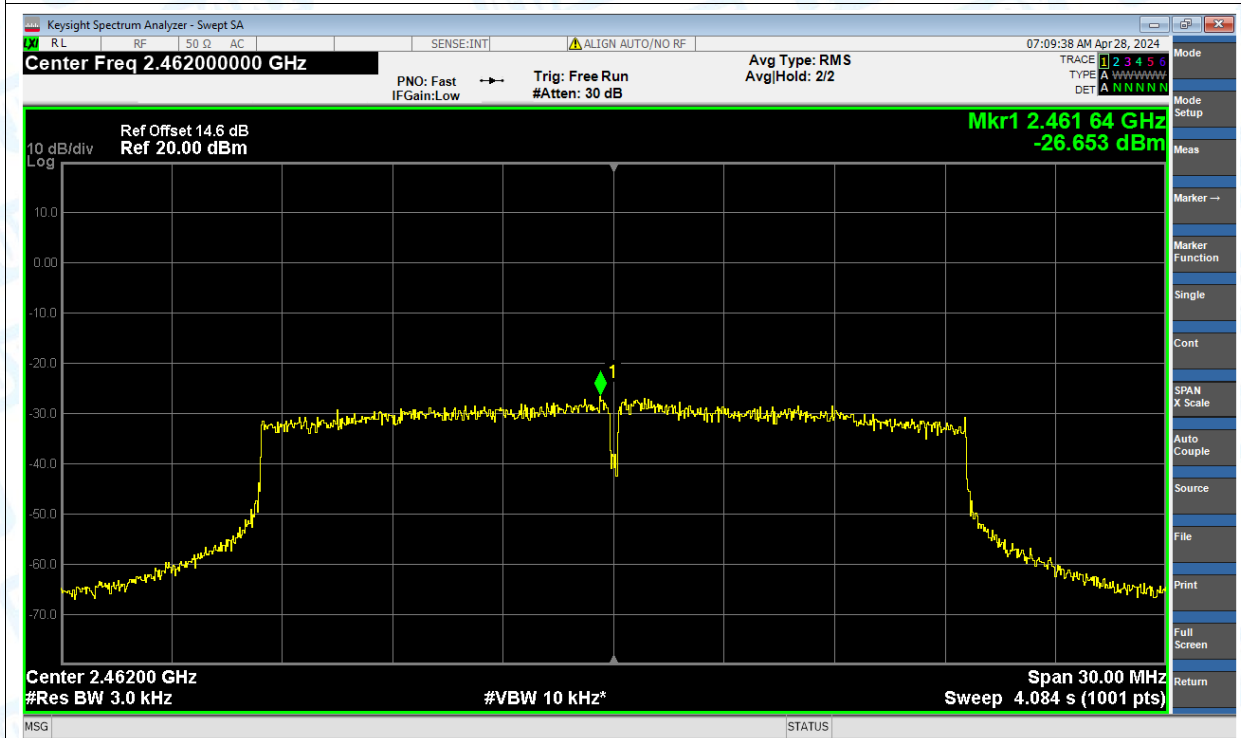
PSD NVNT ax(VHT20) 2412MHz Ant1



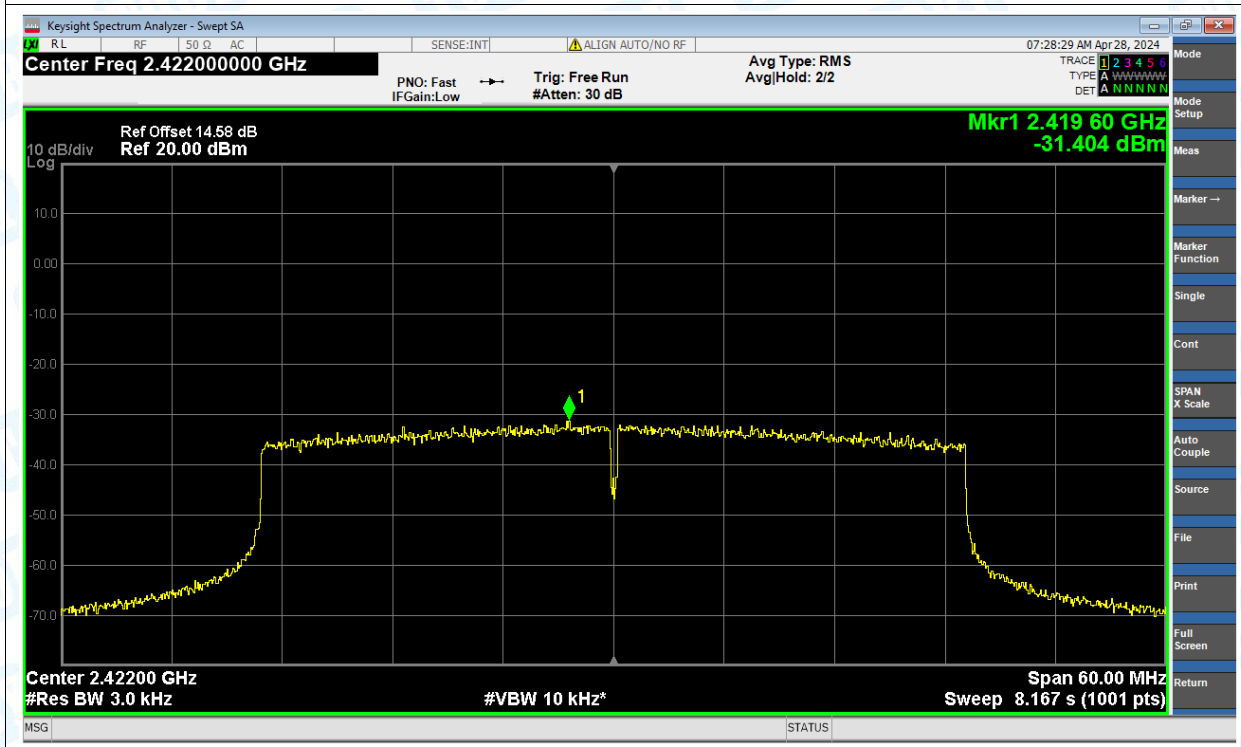
PSD NVNT ax(VHT20) 2437MHz Ant1



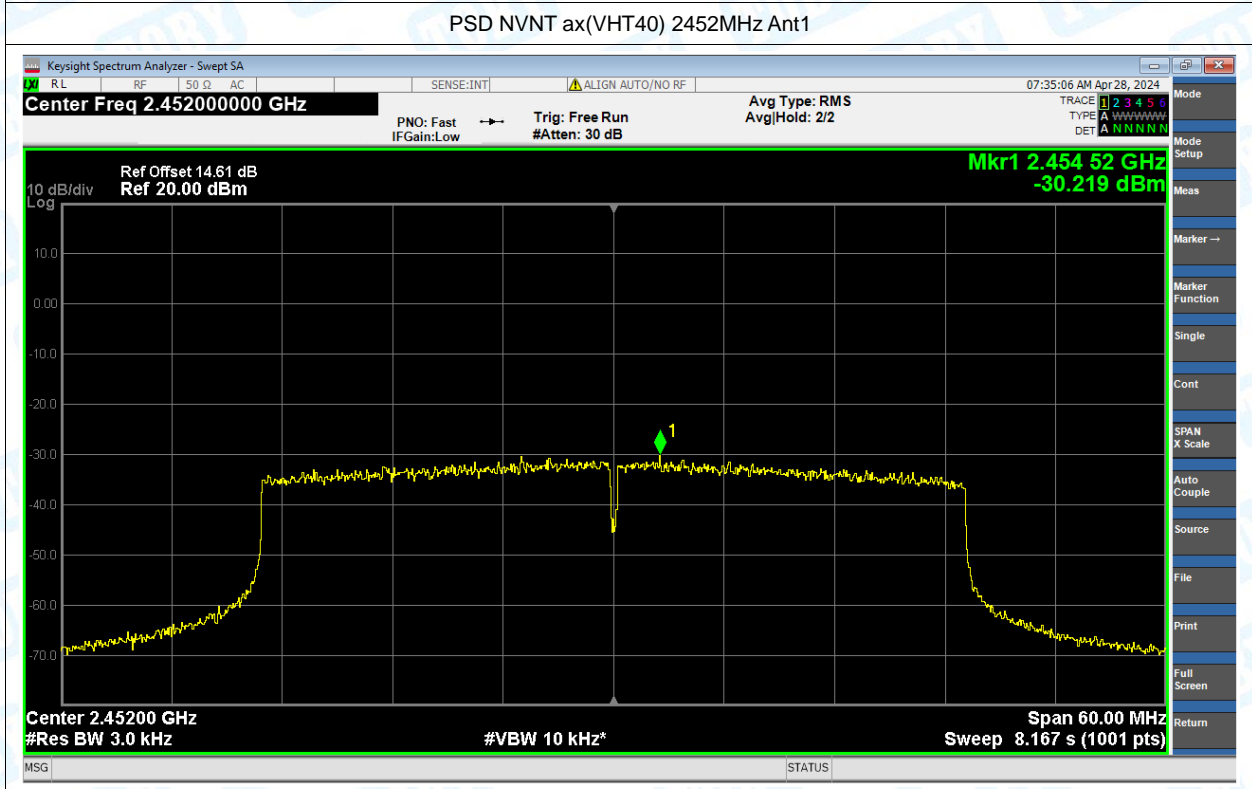
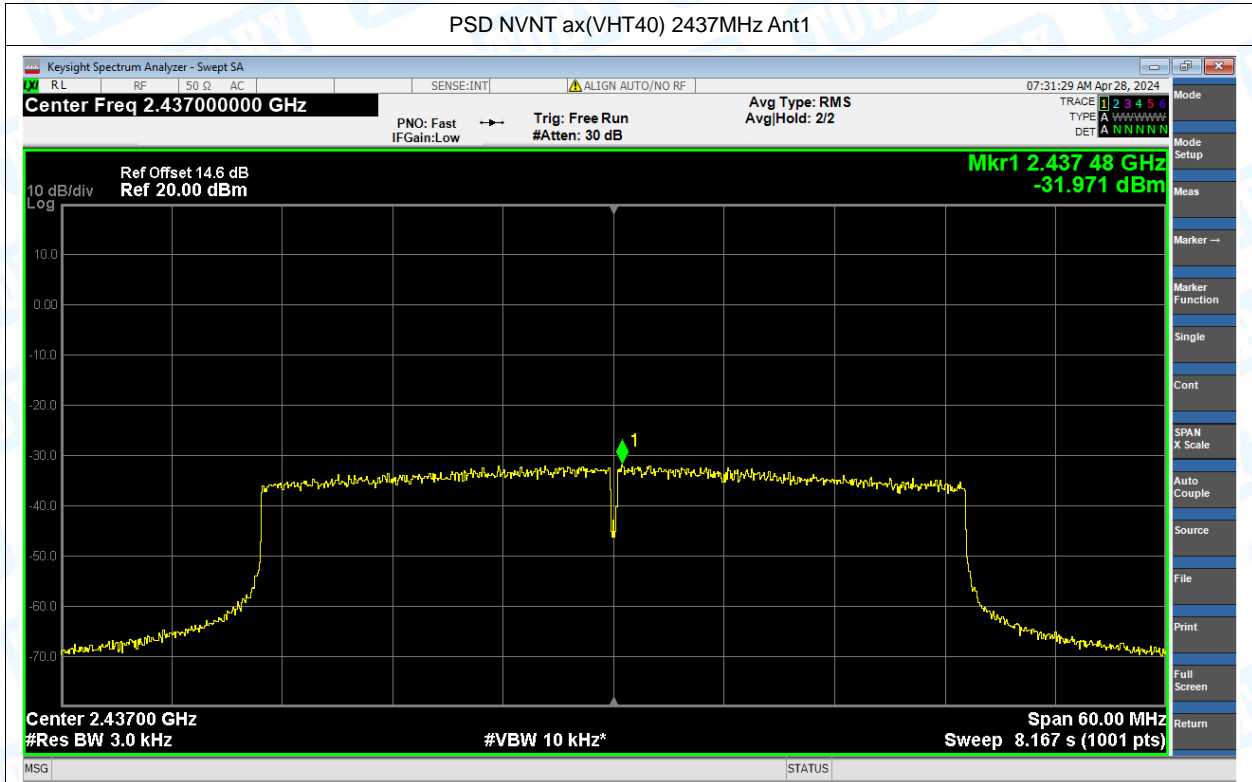
PSD NVNT ax(VHT20) 2462MHz Ant1



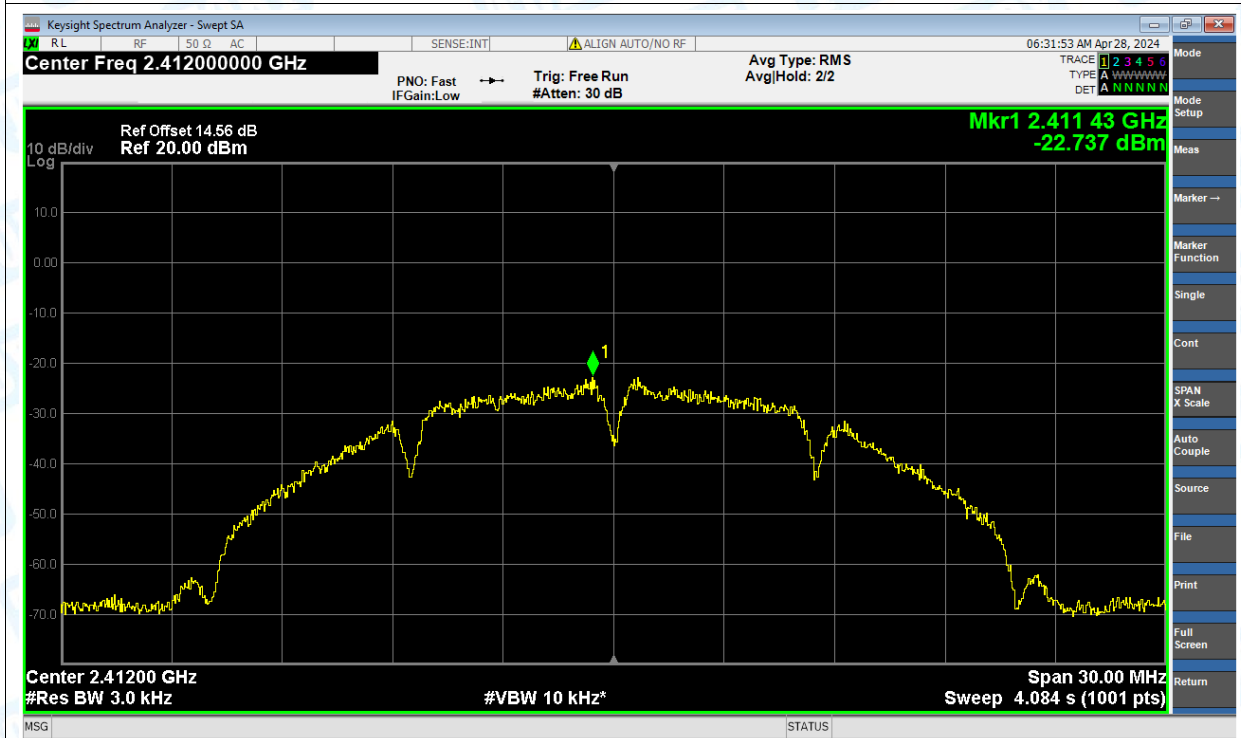
PSD NVNT ax(VHT40) 2422MHz Ant1



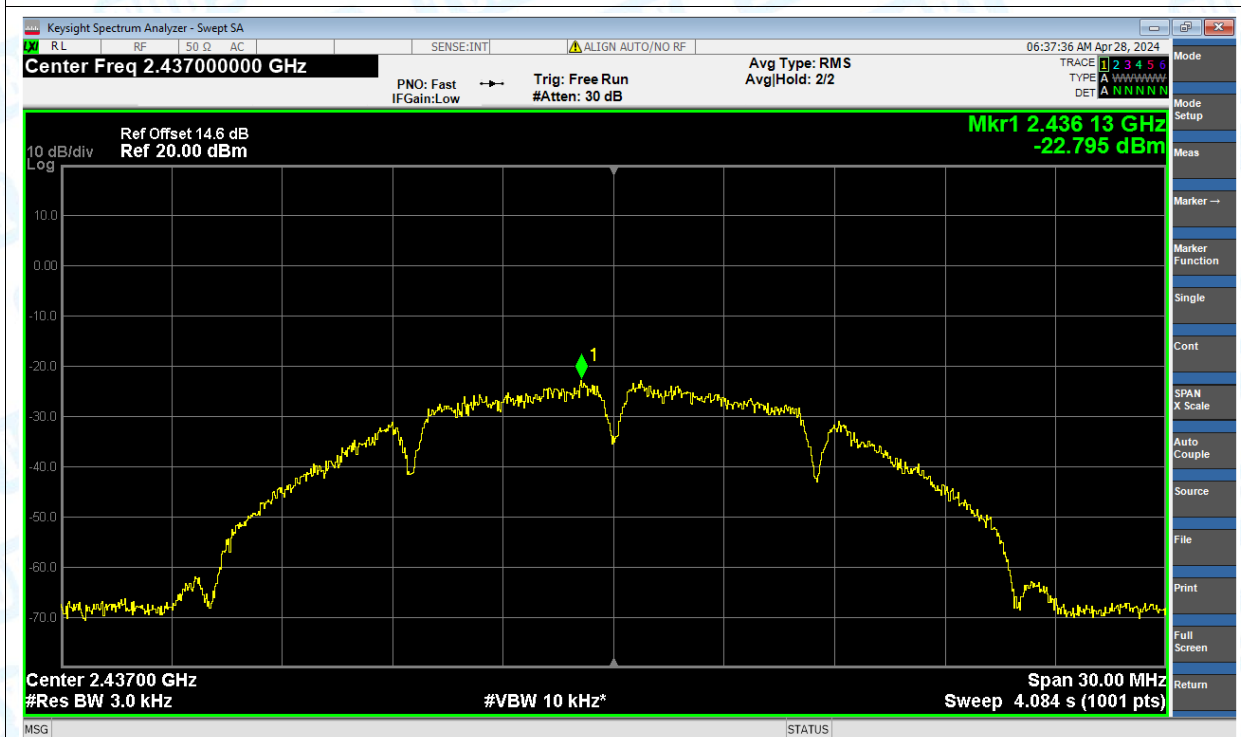




PSD NVNT b 2412MHz Ant1

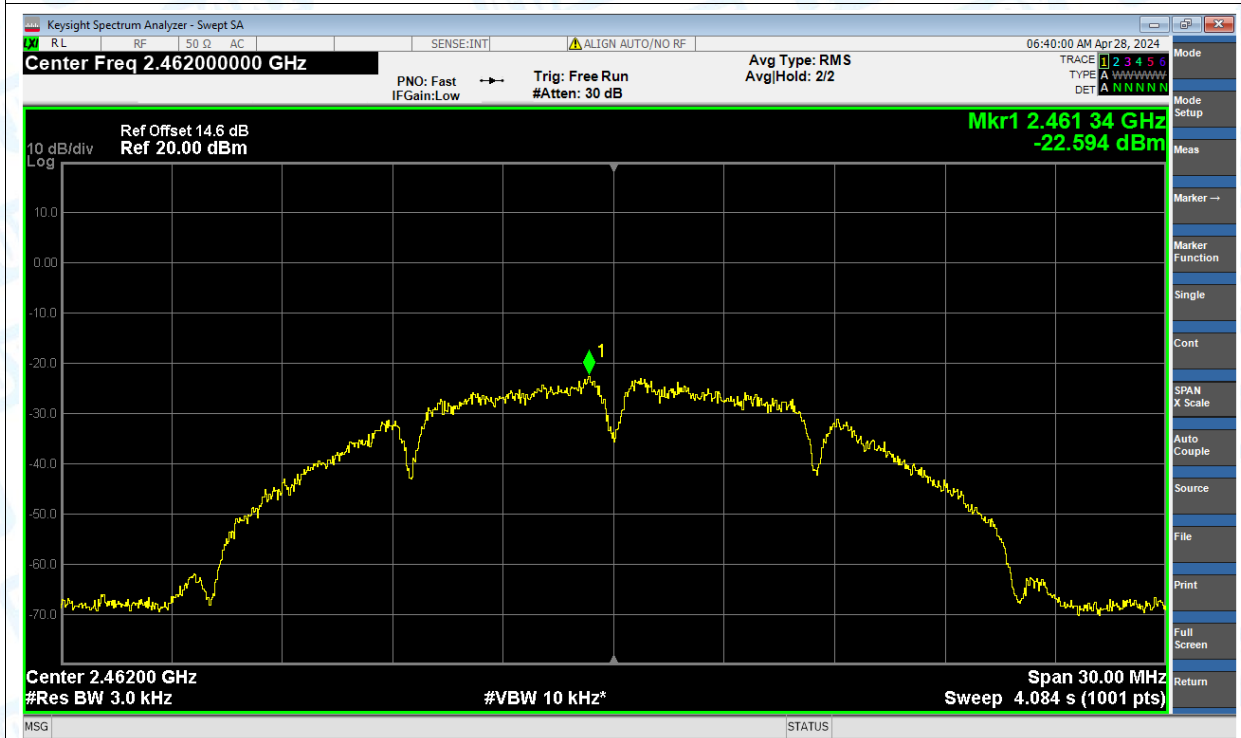


PSD NVNT b 2437MHz Ant1

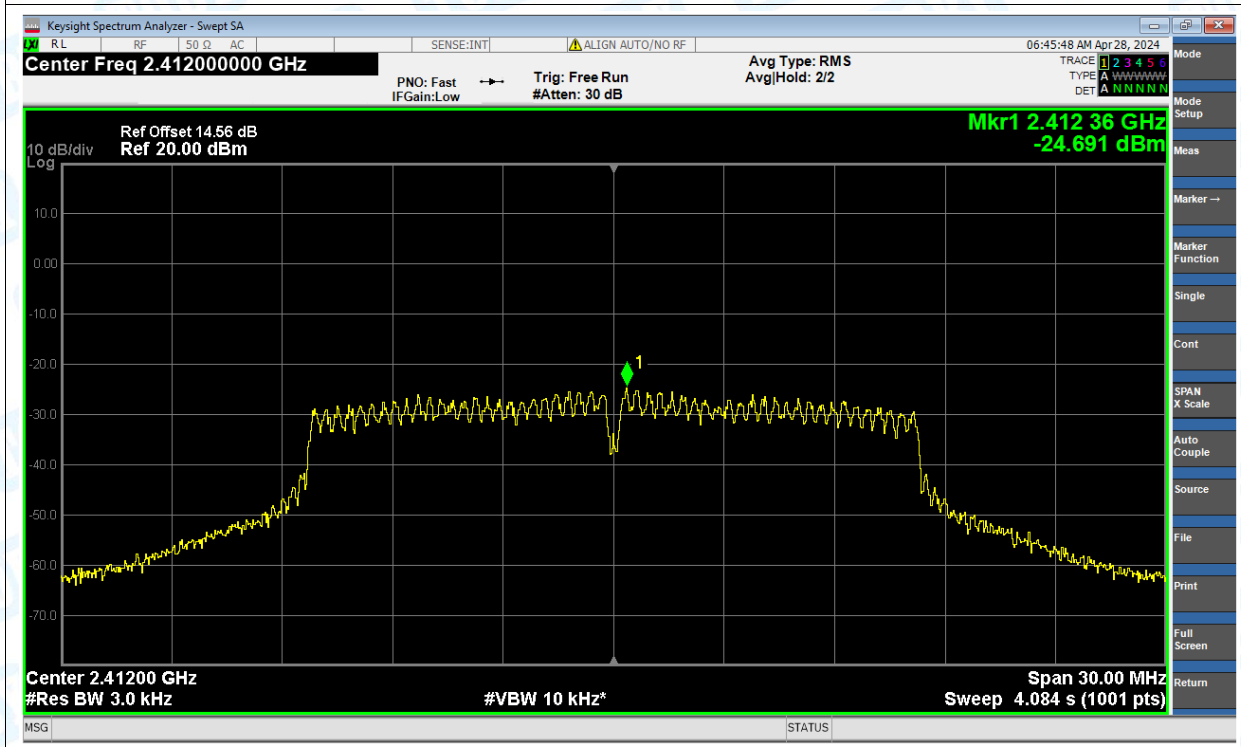




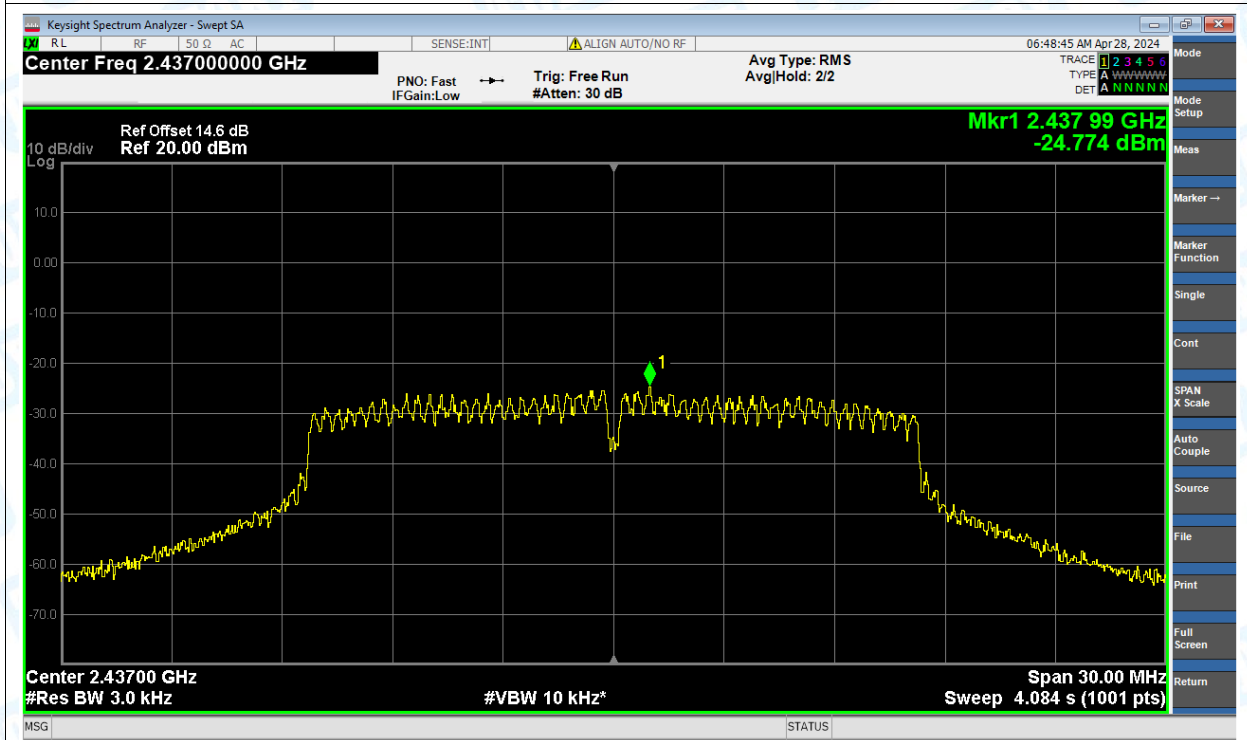
PSD NVNT b 2462MHz Ant1



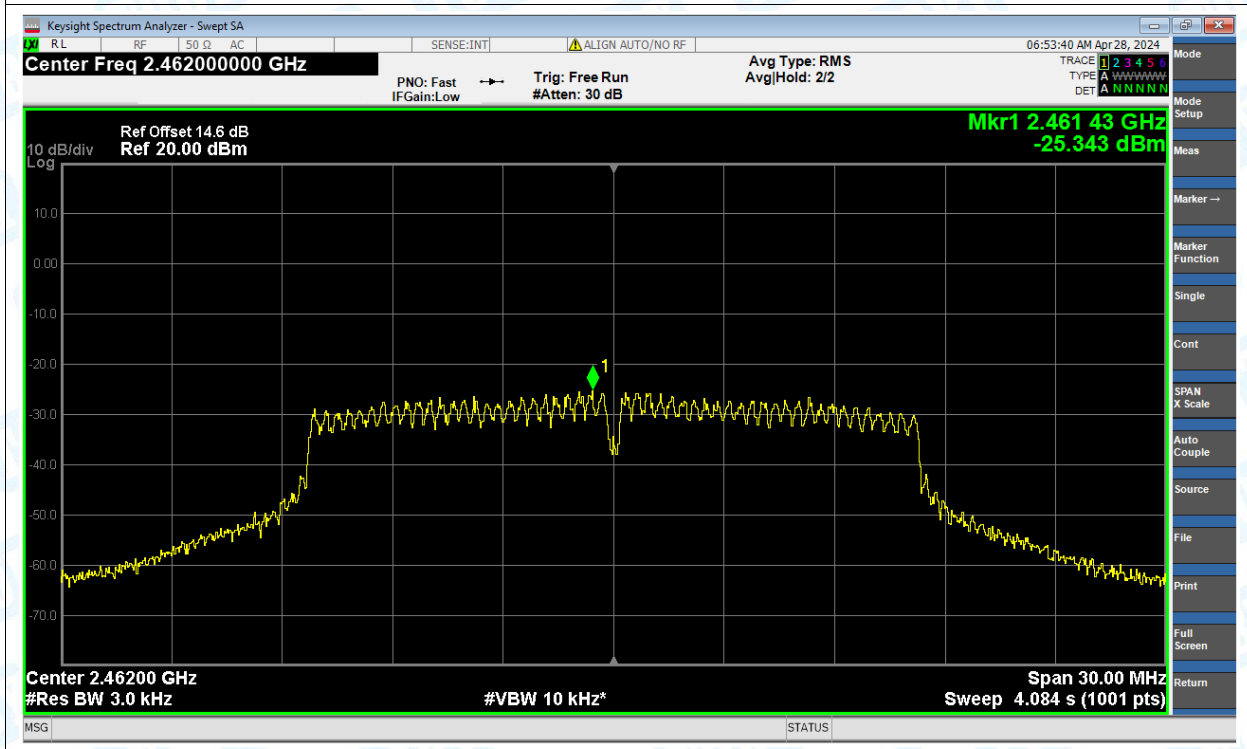
PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1

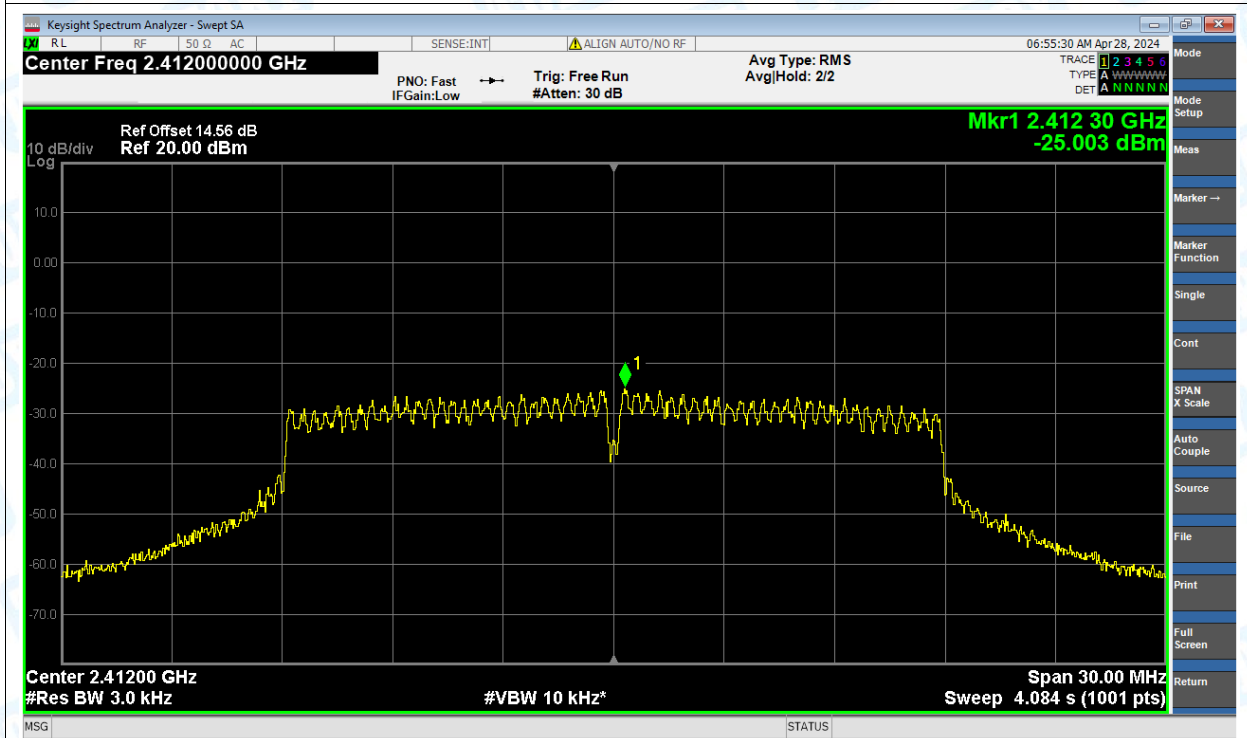


PSD NVNT g 2462MHz Ant1

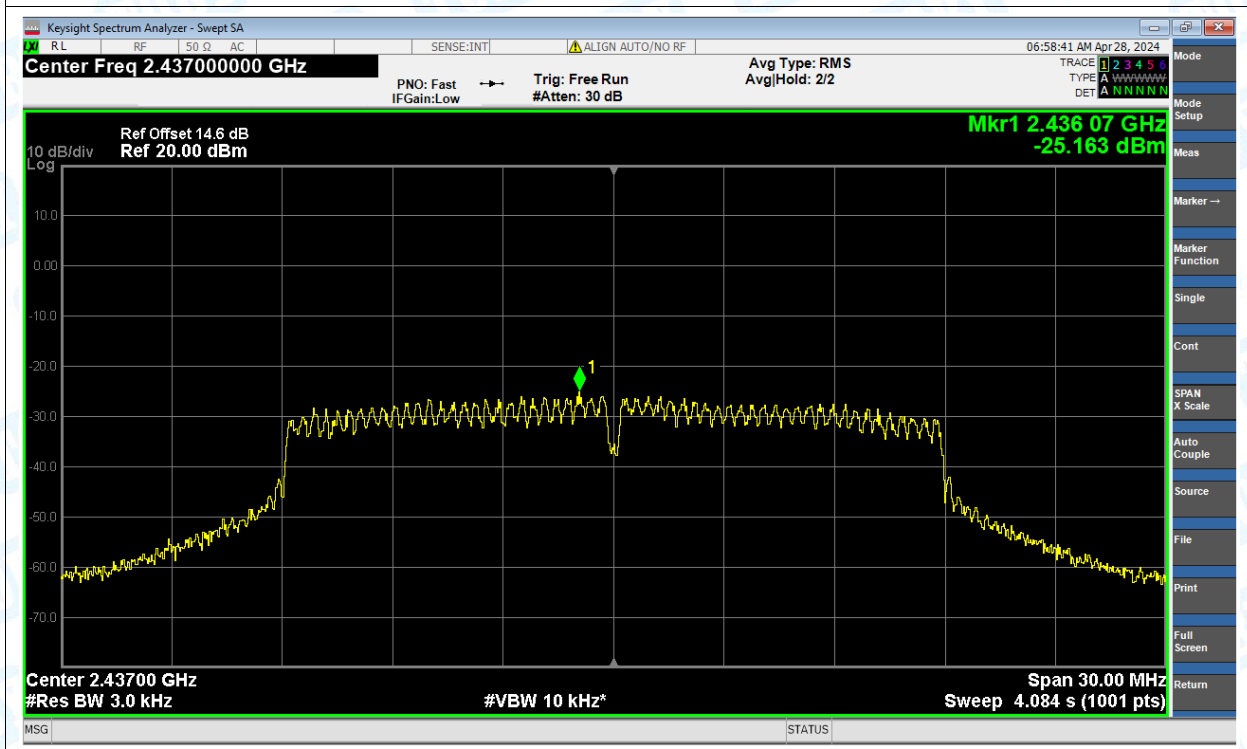




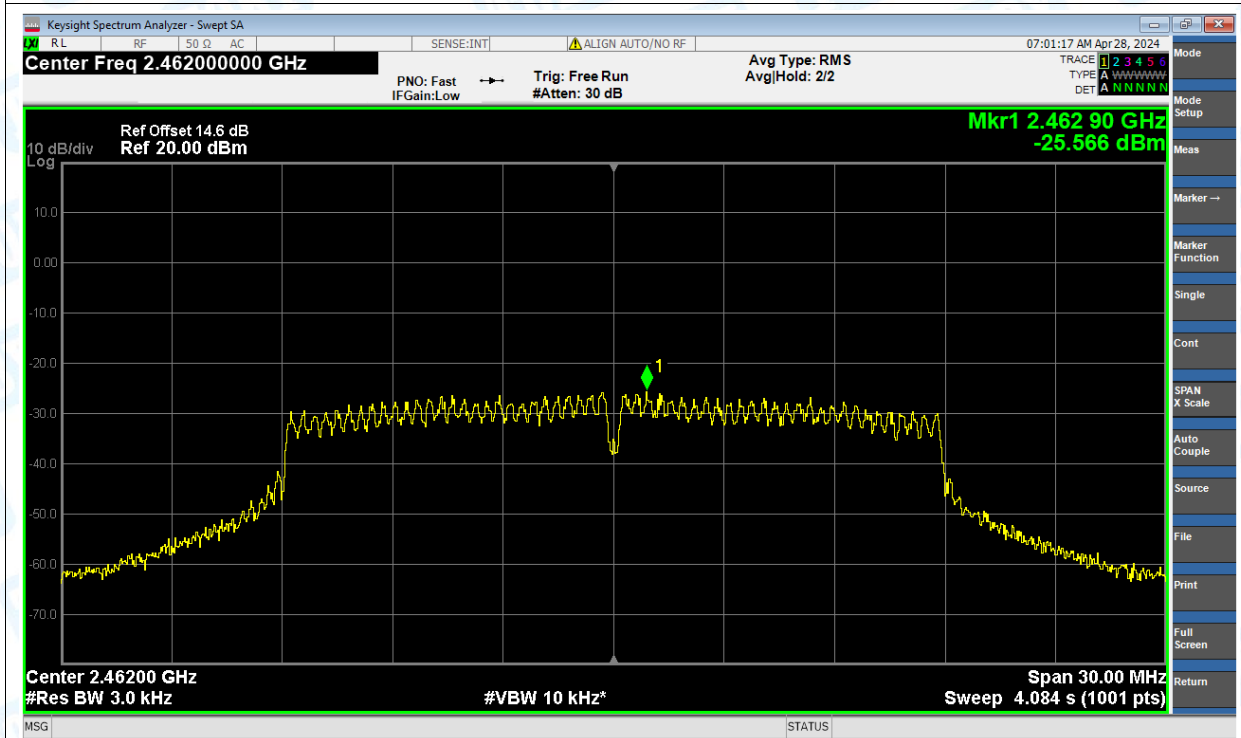
PSD NVNT n(HT20) 2412MHz Ant1



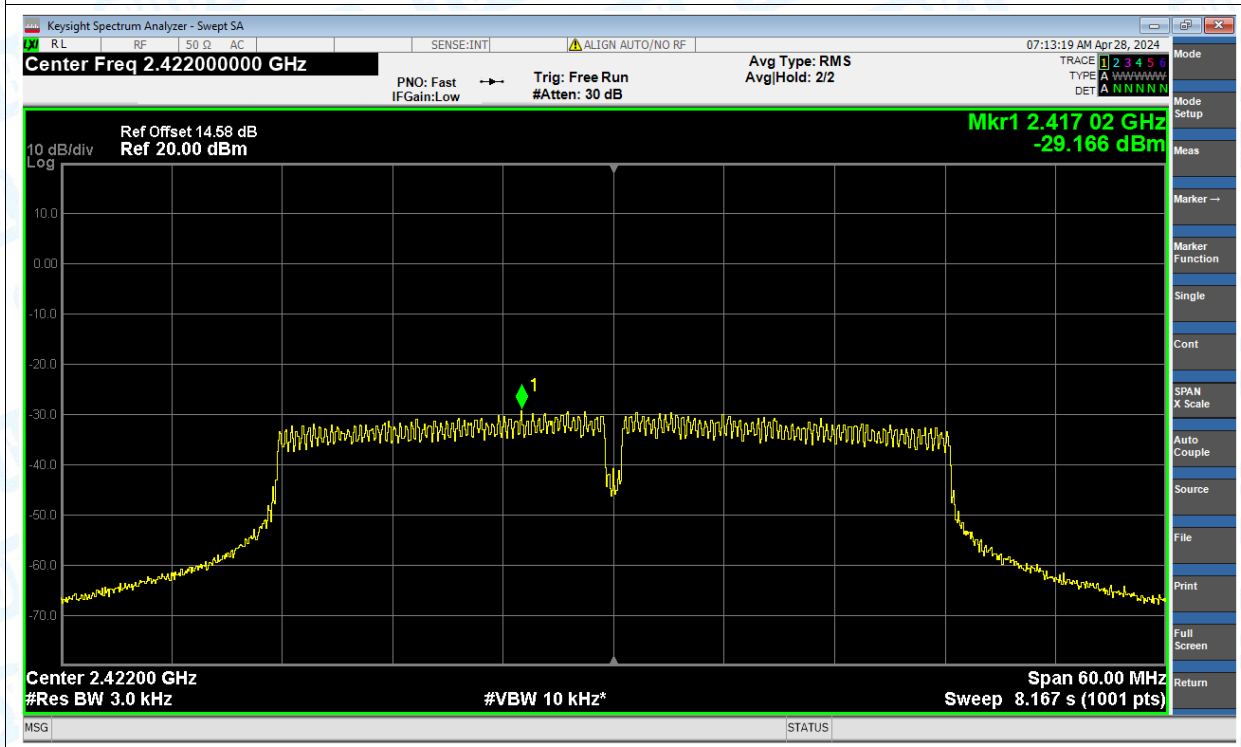
PSD NVNT n(HT20) 2437MHz Ant1



PSD NVNT n(HT20) 2462MHz Ant1

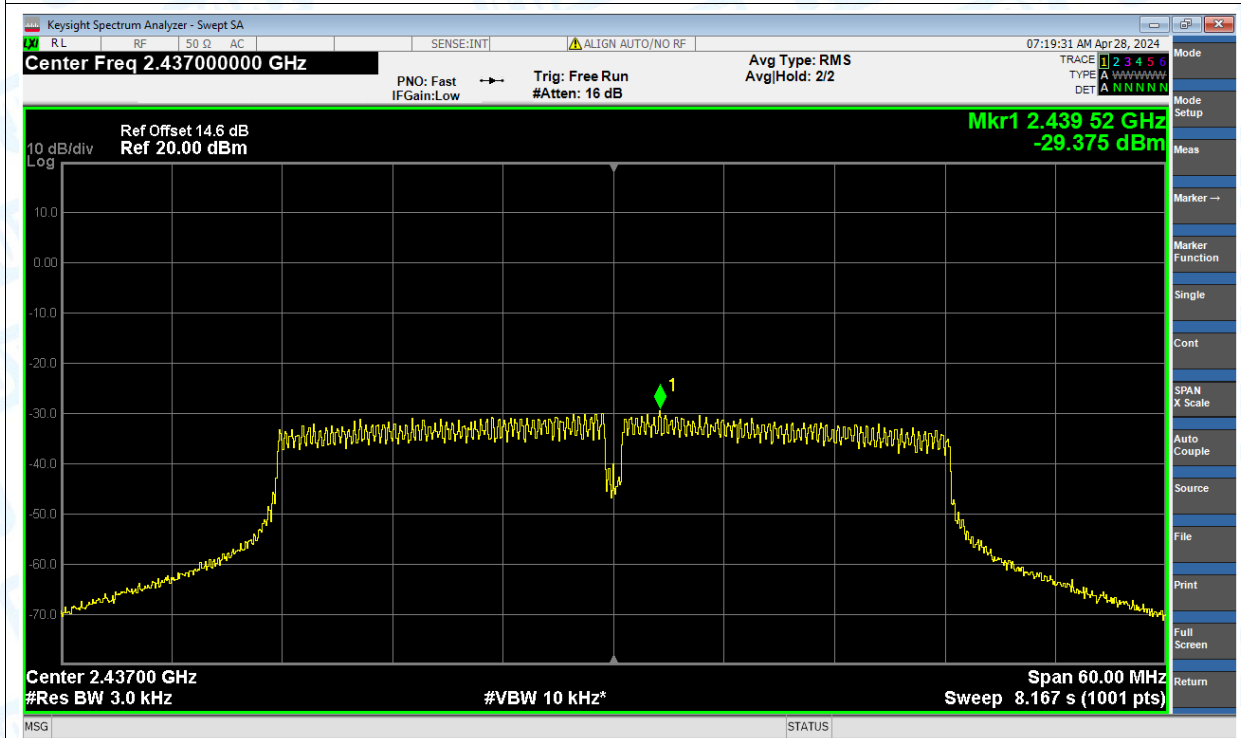


PSD NVNT n(HT40) 2422MHz Ant1

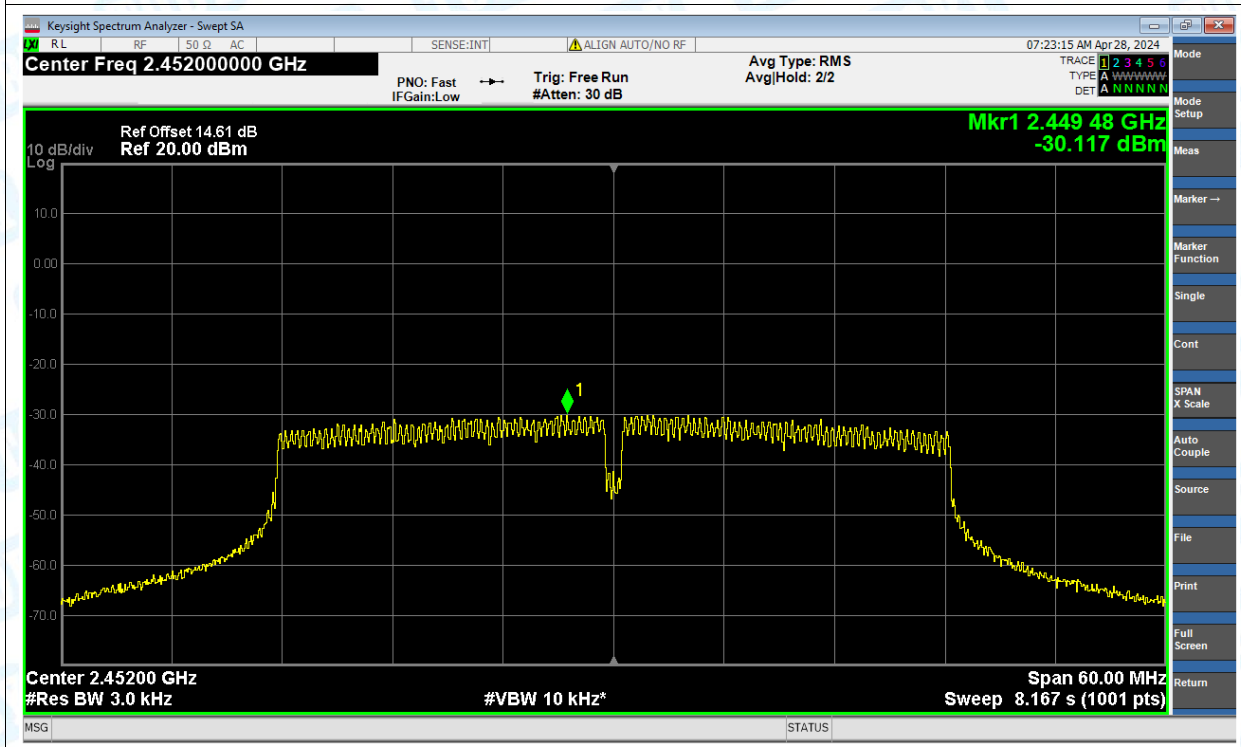




PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1



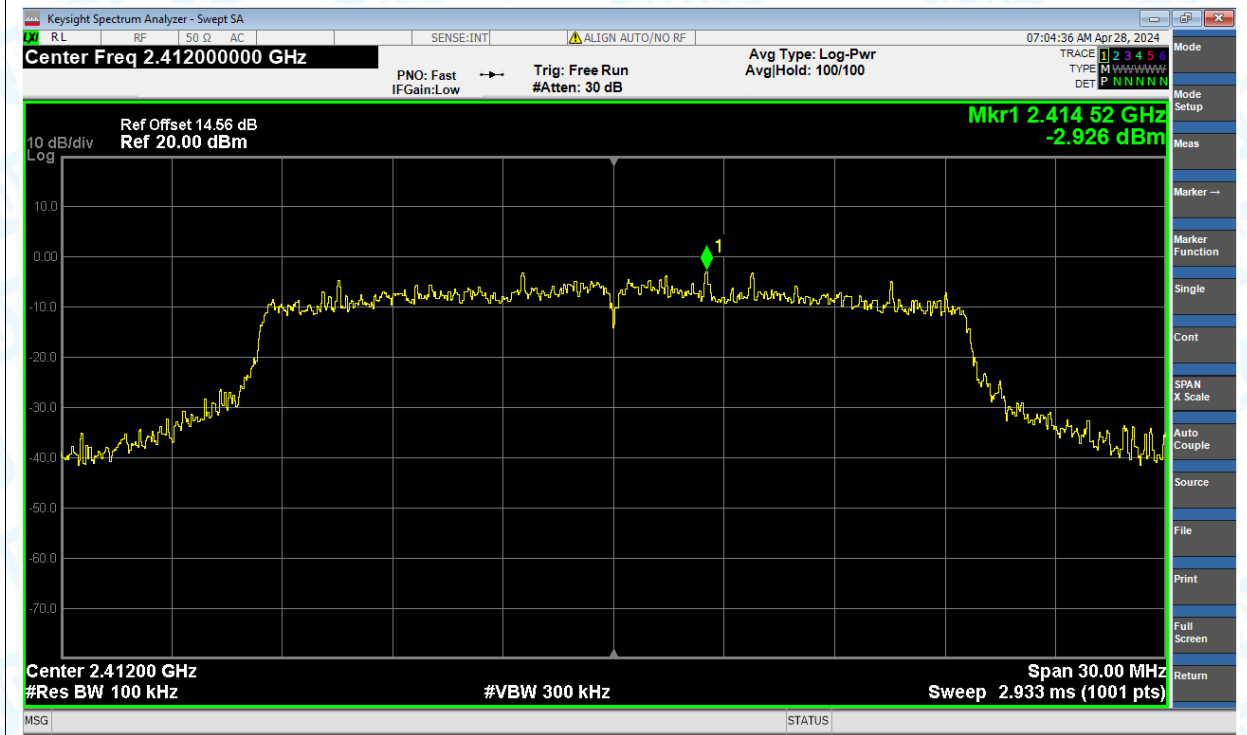
## 6. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ax(VHT20)	2412	Ant1	-41.38	-30	Pass
NVNT	ax(VHT20)	2462	Ant1	-40.75	-30	Pass
NVNT	ax(VHT40)	2422	Ant1	-38.04	-30	Pass
NVNT	ax(VHT40)	2452	Ant1	-38.11	-30	Pass
NVNT	b	2412	Ant1	-43.2	-30	Pass
NVNT	b	2462	Ant1	-44.95	-30	Pass
NVNT	g	2412	Ant1	-42.4	-30	Pass
NVNT	g	2462	Ant1	-41.17	-30	Pass
NVNT	n(HT20)	2412	Ant1	-41.7	-30	Pass
NVNT	n(HT20)	2462	Ant1	-38.98	-30	Pass
NVNT	n(HT40)	2422	Ant1	-38.18	-30	Pass
NVNT	n(HT40)	2452	Ant1	-37.07	-30	Pass

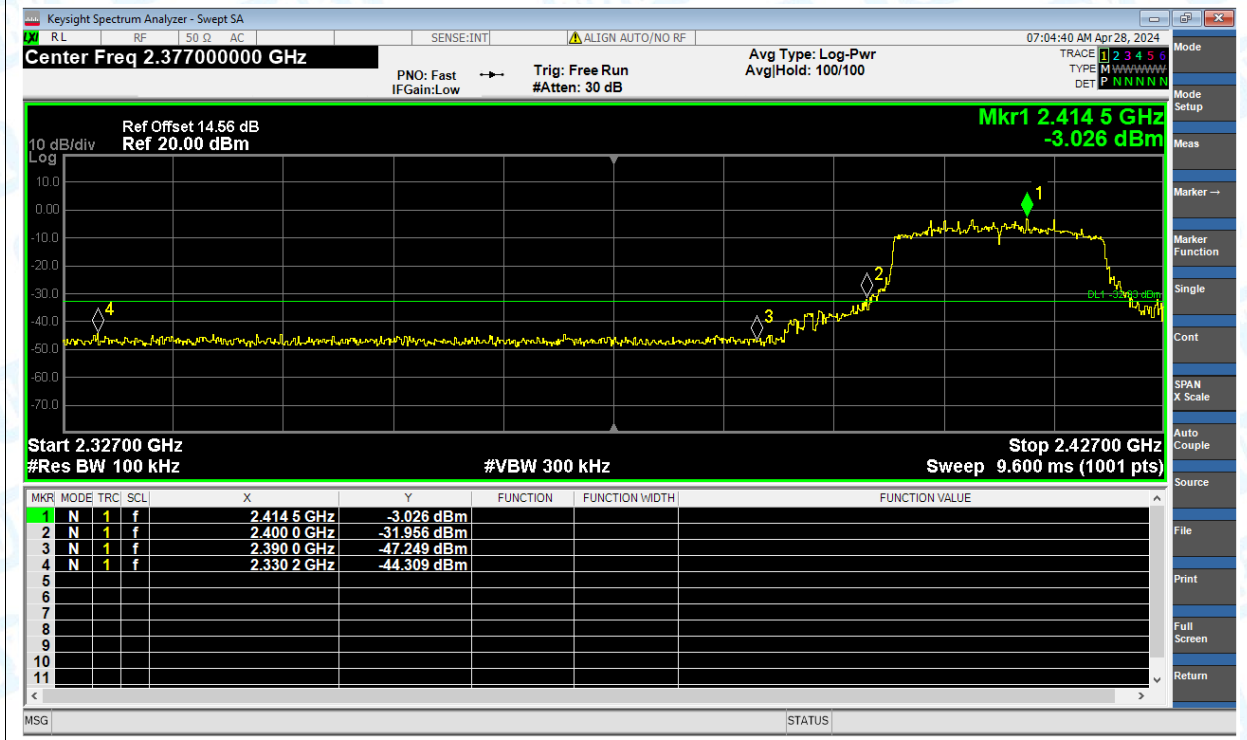


Test Graphs

Band Edge NVNT ax(VHT20) 2412MHz Ant1 Ref



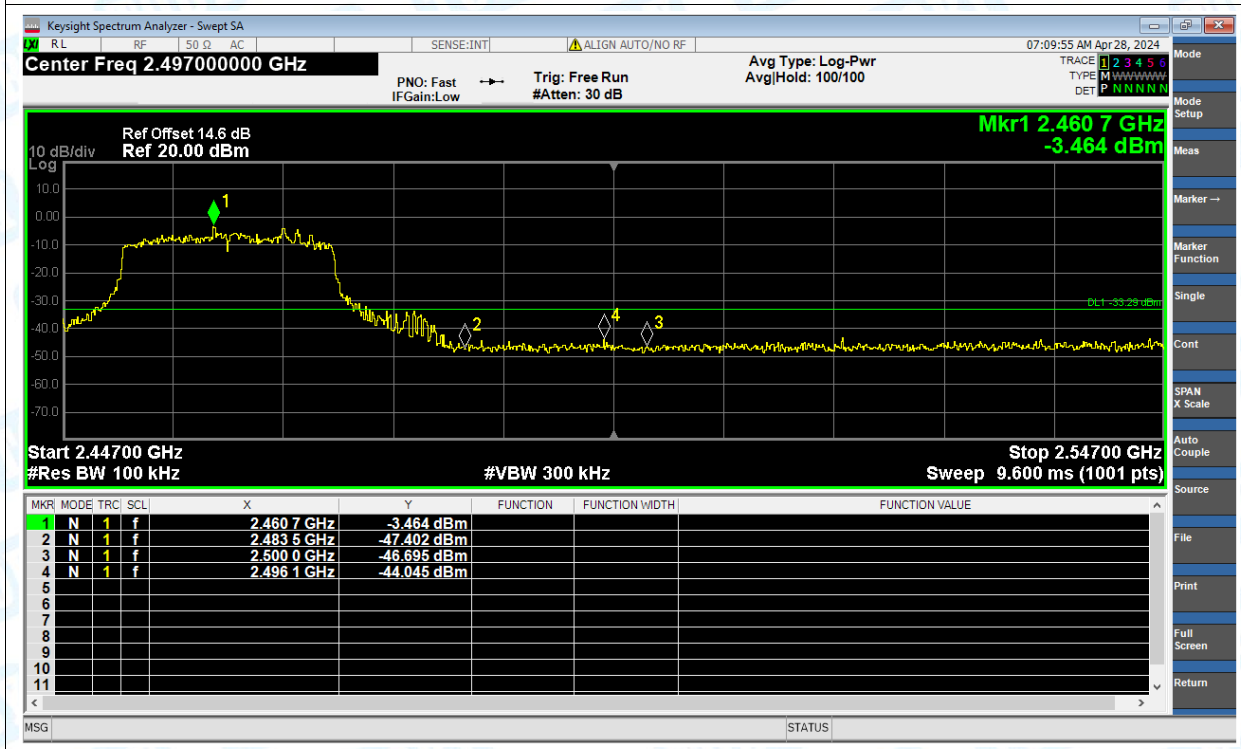
Band Edge NVNT ax(VHT20) 2412MHz Ant1 Emission



Band Edge NVNT ax(VHT20) 2462MHz Ant1 Ref

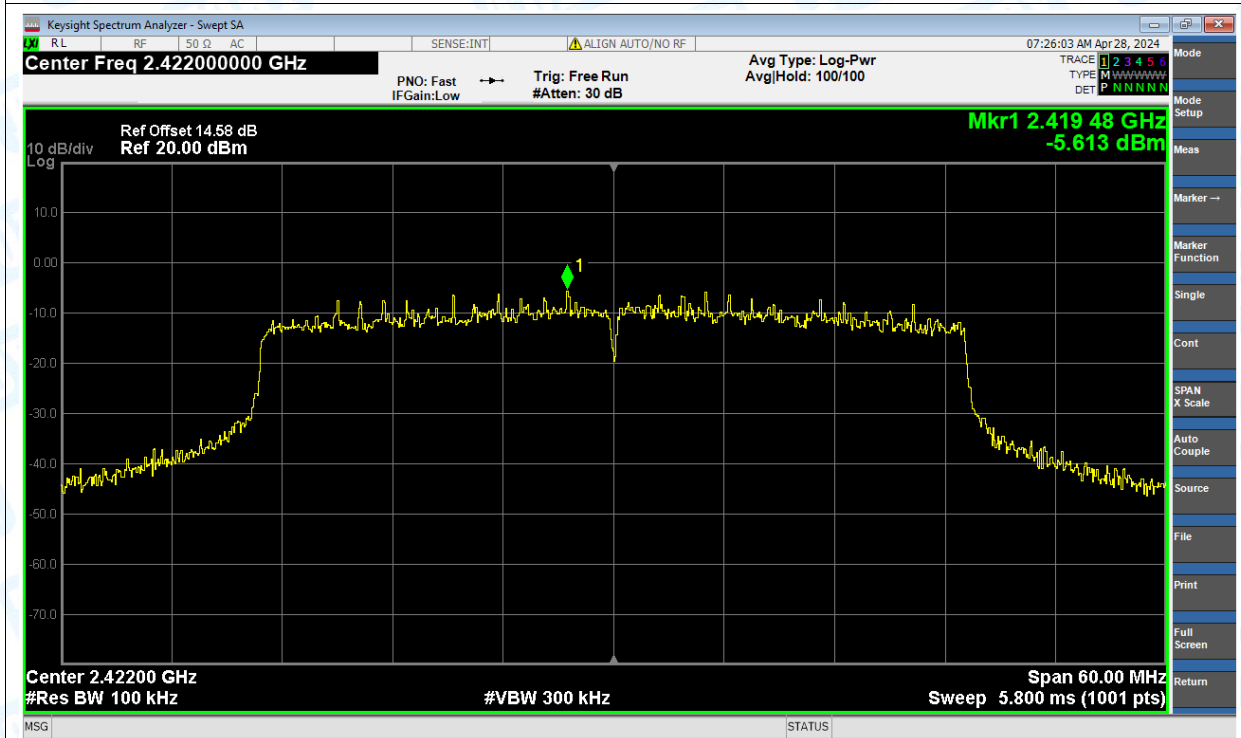


Band Edge NVNT ax(VHT20) 2462MHz Ant1 Emission

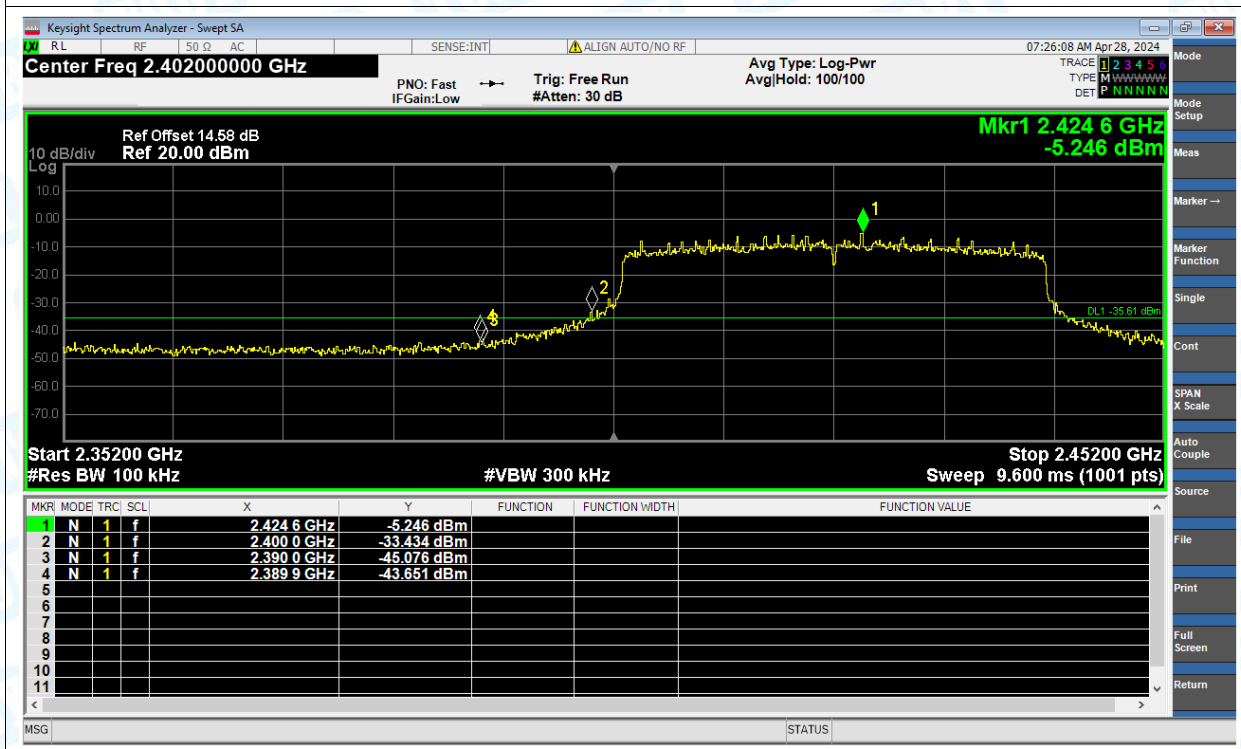




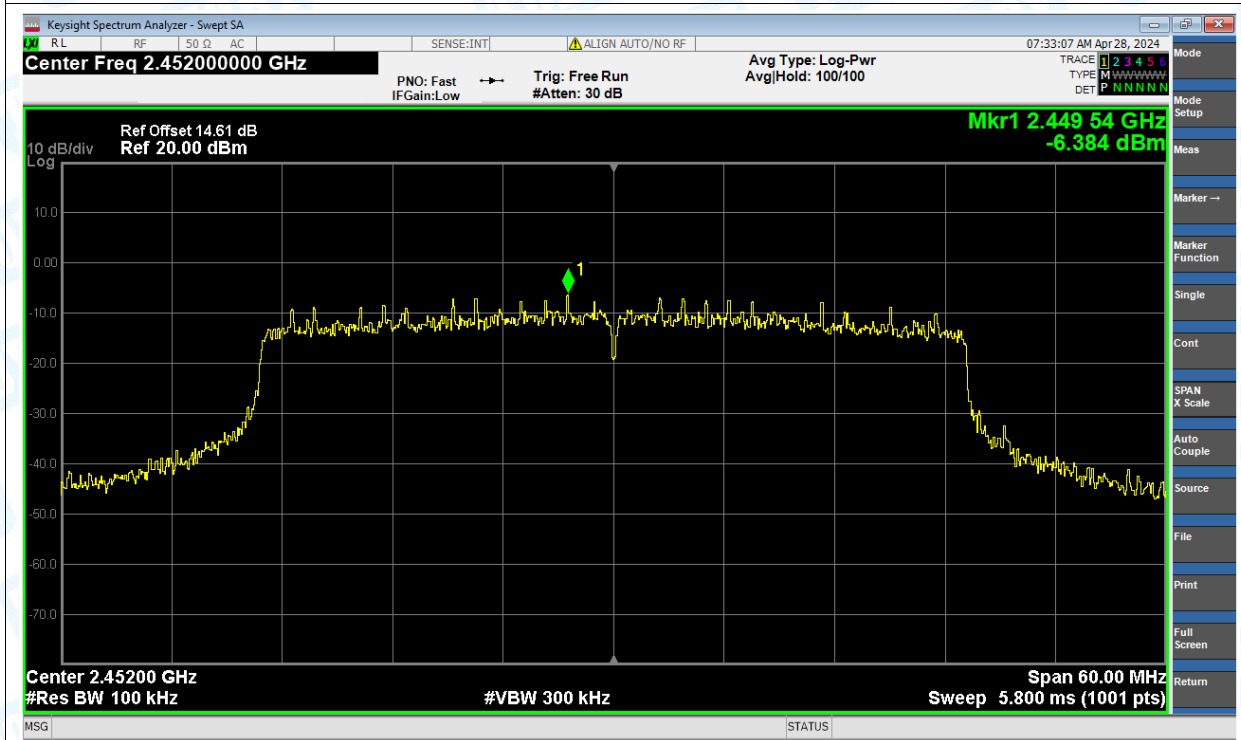
Band Edge NVNT ax(VHT40) 2422MHz Ant1 Ref



Band Edge NVNT ax(VHT40) 2422MHz Ant1 Emission



Band Edge NVNT ax(VHT40) 2452MHz Ant1 Ref

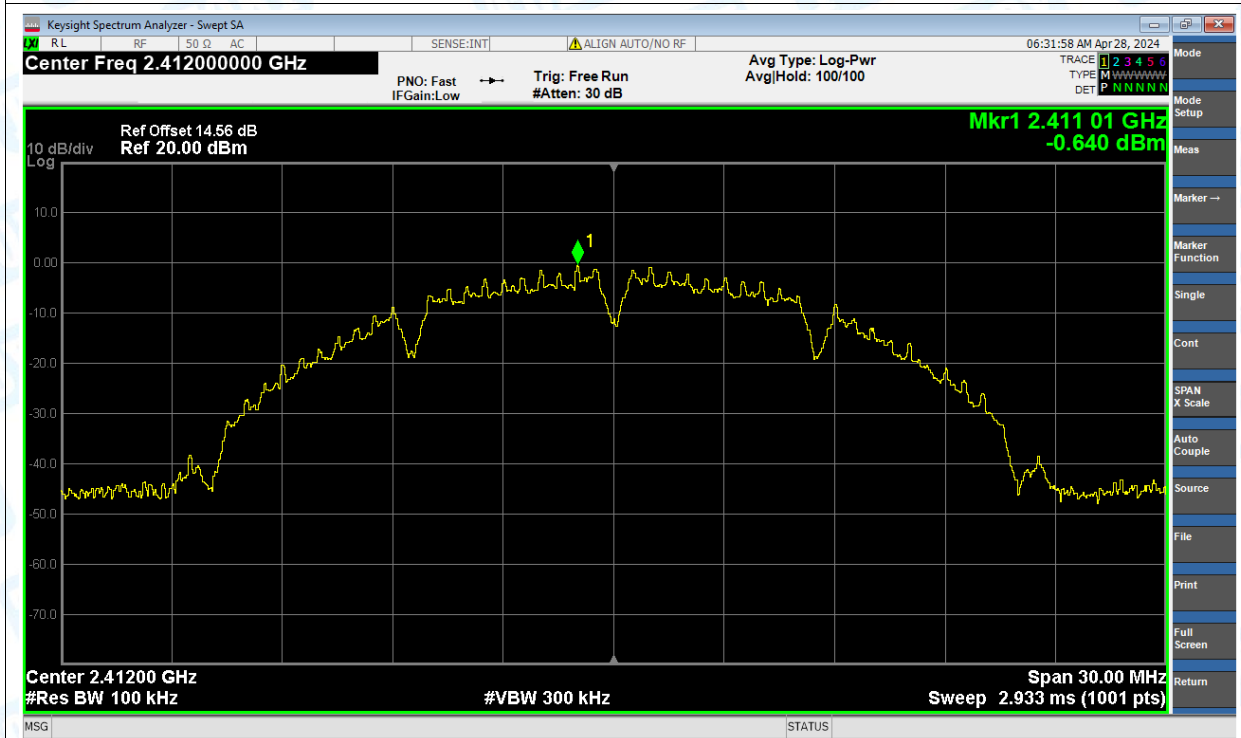


Band Edge NVNT ax(VHT40) 2452MHz Ant1 Emission





Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

