

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	Football Eye
Test Model:	VT67
Sample ID:	HC-C-202604-0494-01-01
Environmental Conditions	
Temperature:	25.6℃
Relative Humidity:	46.8%
Test Voltage:	DC 5V
Test Engineer:	Lily zhang
Note: For a more detailed features description, please refer to the report TBR-C-202604-0494-11 The report only show the worst case data.	

Contents

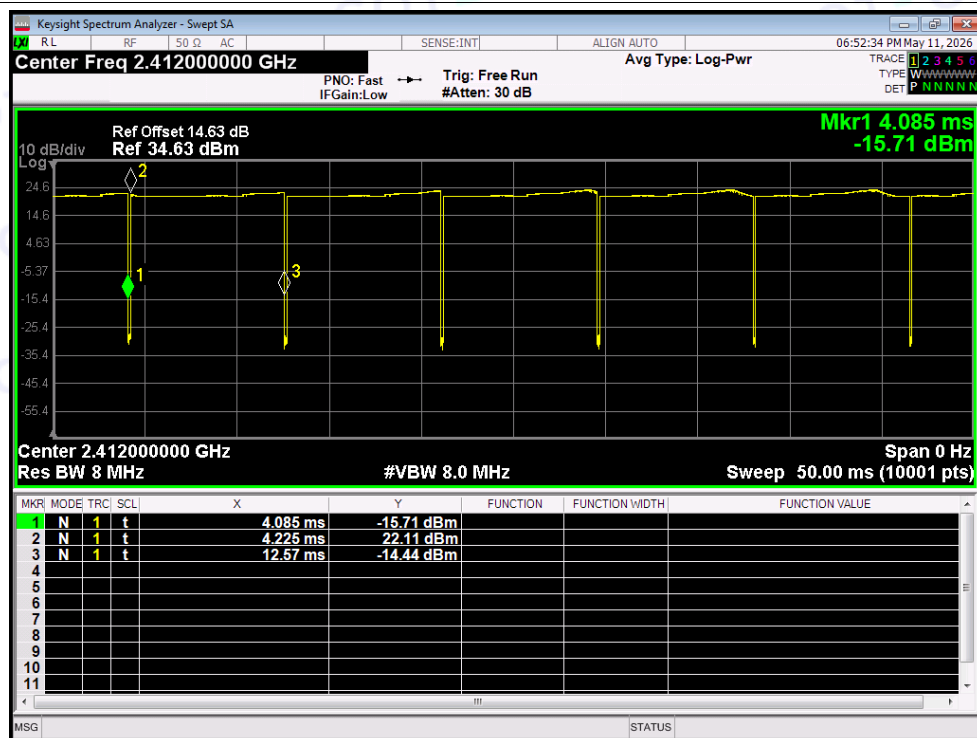
1.	Duty Cycle	3
2.	Maximum Conducted Output Power	9
3.	-6dB Bandwidth	10
4.	Occupied Channel Bandwidth	16
5.	Maximum Power Spectral Density Level	22
6.	Band Edge	28
7.	Conducted RF Spurious Emission	35

1. Duty Cycle

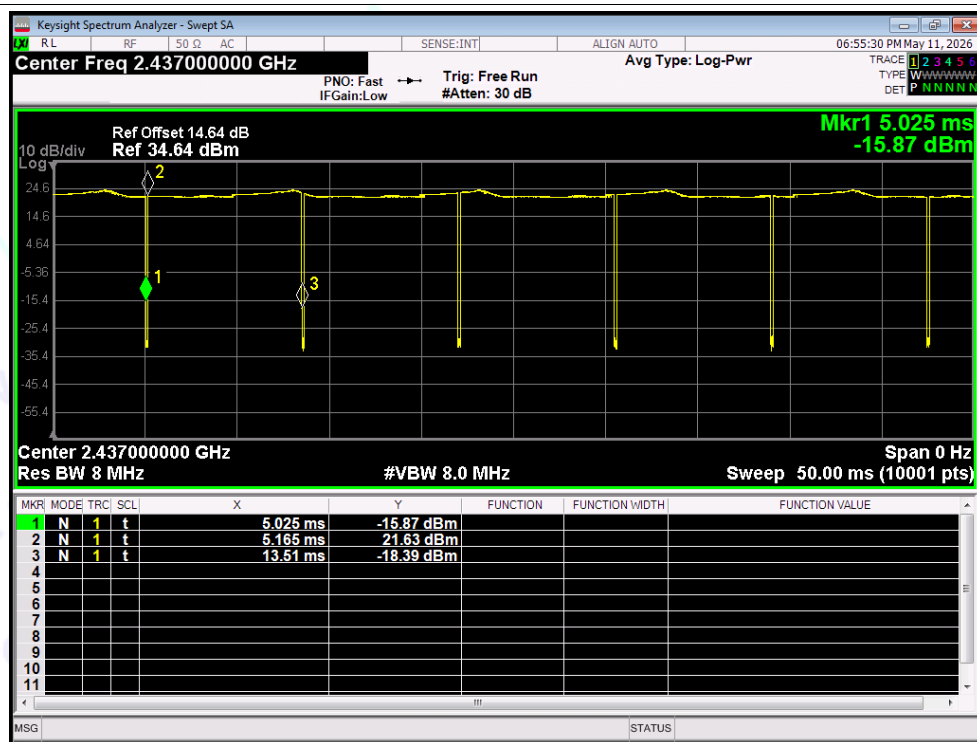
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	98.35	0.07	0.12
NVNT	b	2437	Ant1	98.35	0.07	0.12
NVNT	b	2462	Ant1	98.35	0.07	0.12
NVNT	g	2412	Ant1	97.18	0.12	0.73
NVNT	g	2437	Ant1	97.32	0.12	0.73
NVNT	g	2462	Ant1	97.18	0.12	0.73
NVNT	n(HT20)	2412	Ant1	96.99	0.13	0.78
NVNT	n(HT20)	2437	Ant1	96.99	0.13	0.78
NVNT	n(HT20)	2462	Ant1	96.99	0.13	0.78

Test Graphs

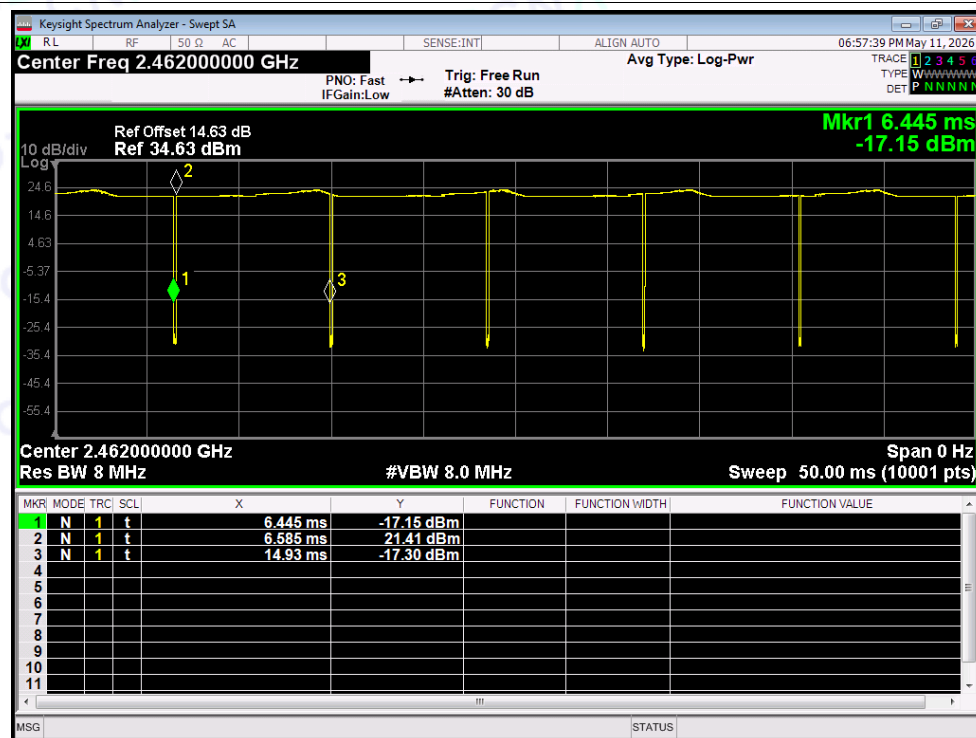
Duty Cycle NVNT b 2412MHz Ant1



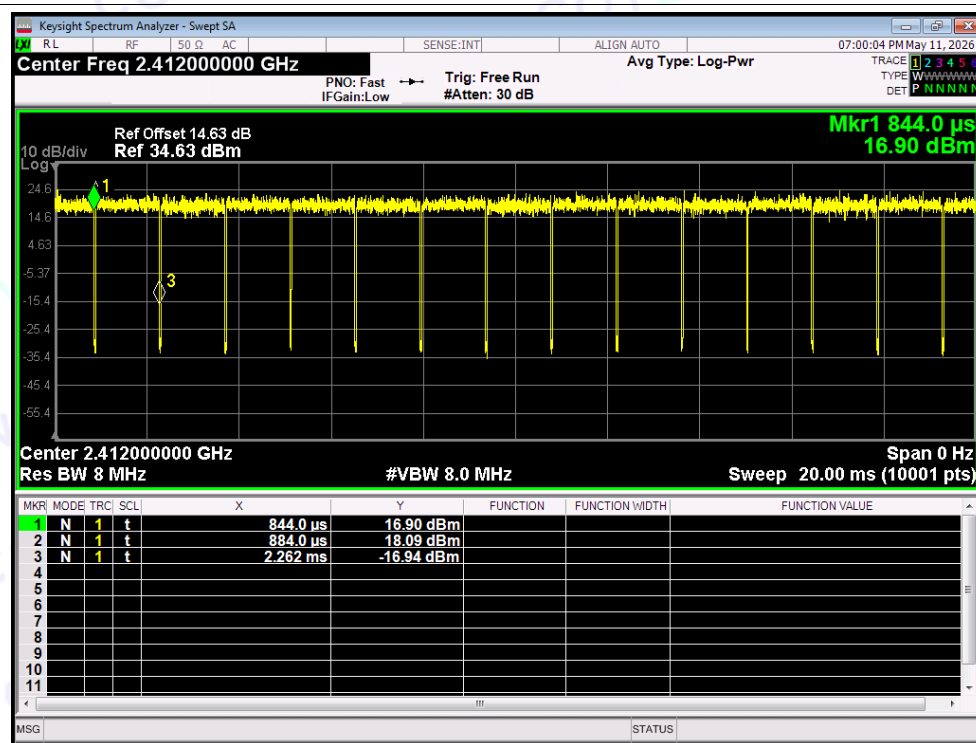
Duty Cycle NVNT b 2437MHz Ant1



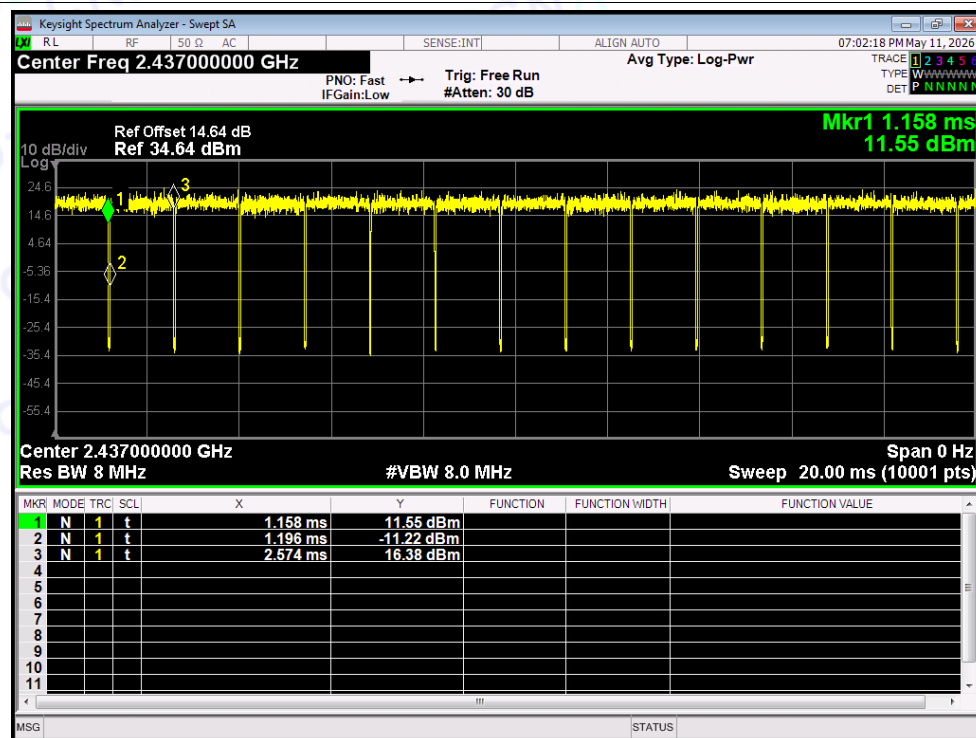
Duty Cycle NVNT b 2462MHz Ant1



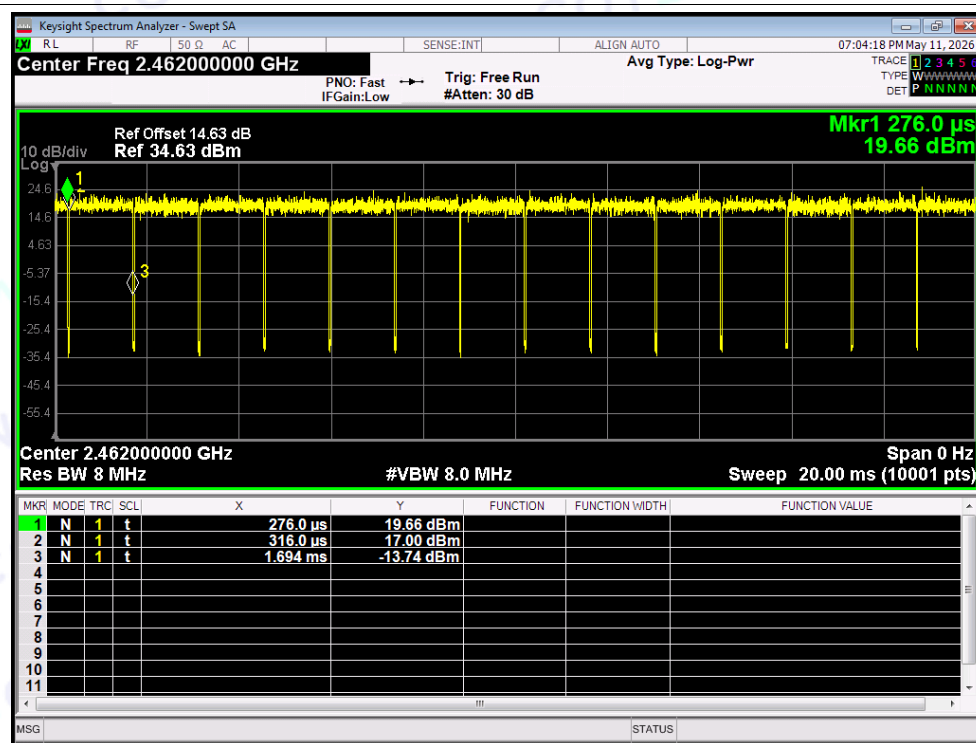
Duty Cycle NVNT g 2412MHz Ant1



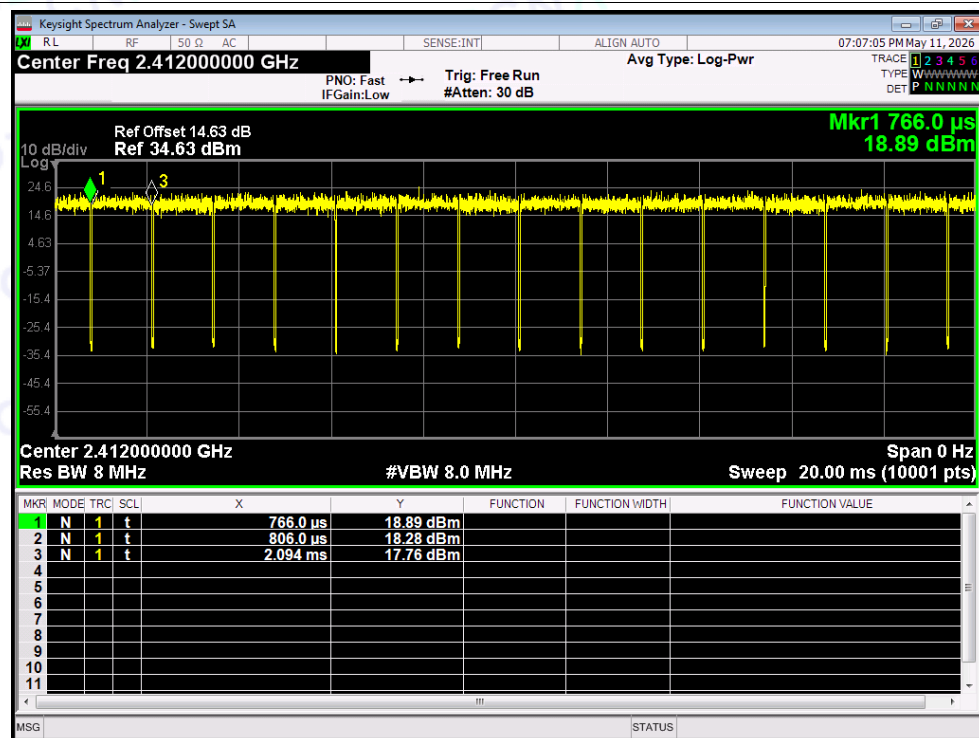
Duty Cycle NVNT g 2437MHz Ant1



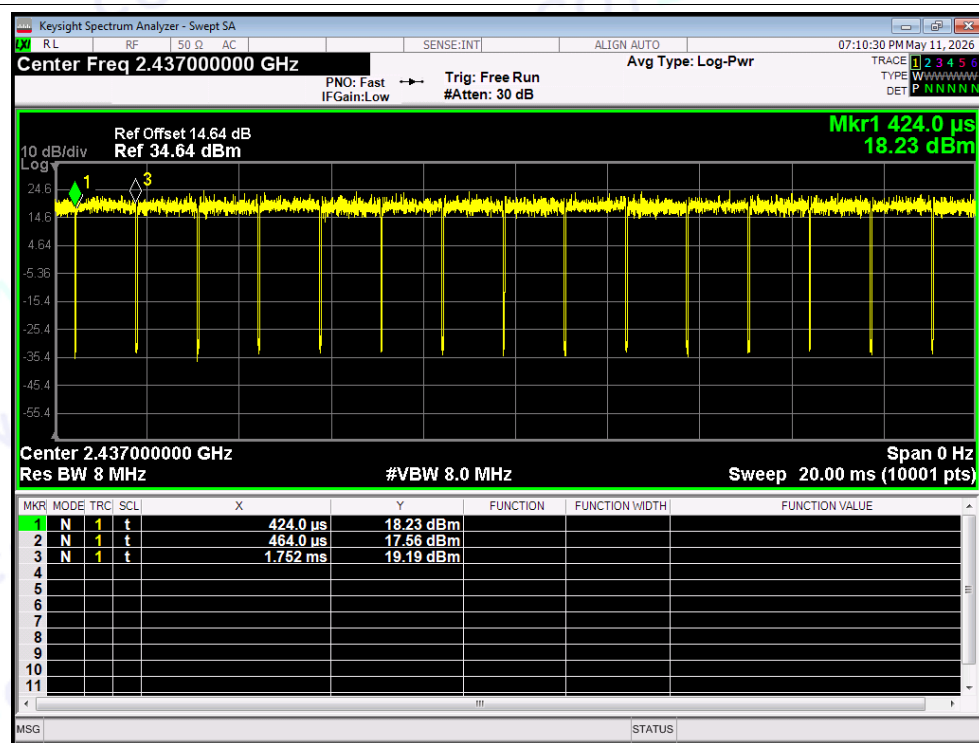
Duty Cycle NVNT g 2462MHz Ant1

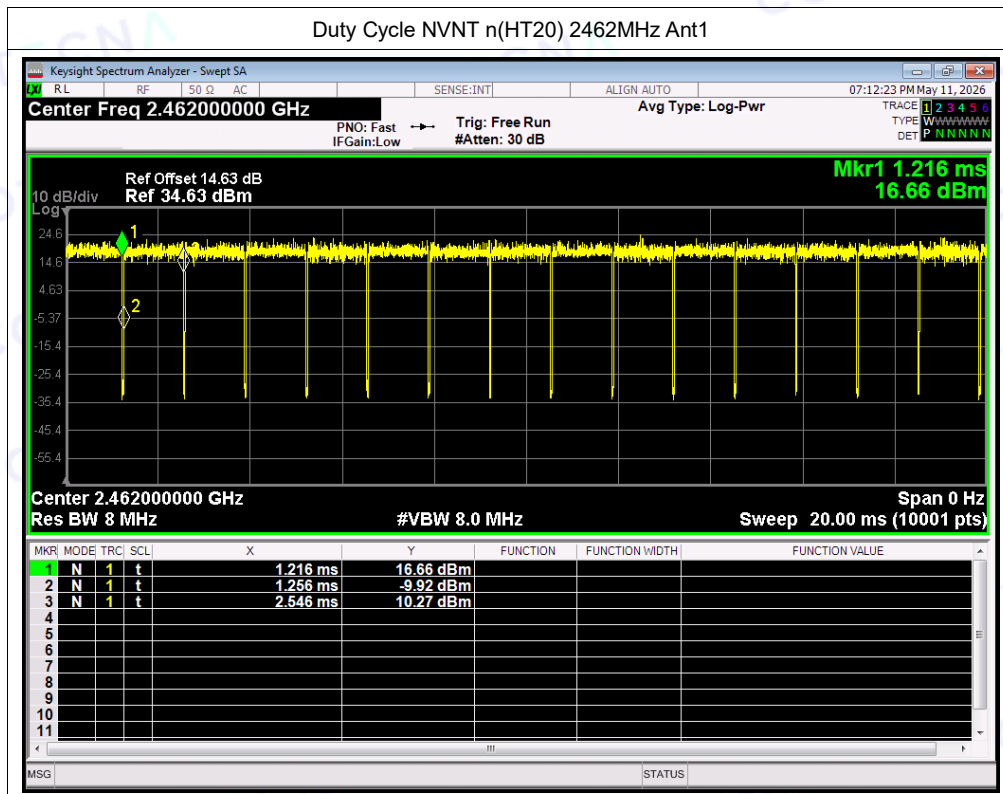


Duty Cycle NVNT n(HT20) 2412MHz Ant1



Duty Cycle NVNT n(HT20) 2437MHz Ant1





2. Maximum Conducted Output Power

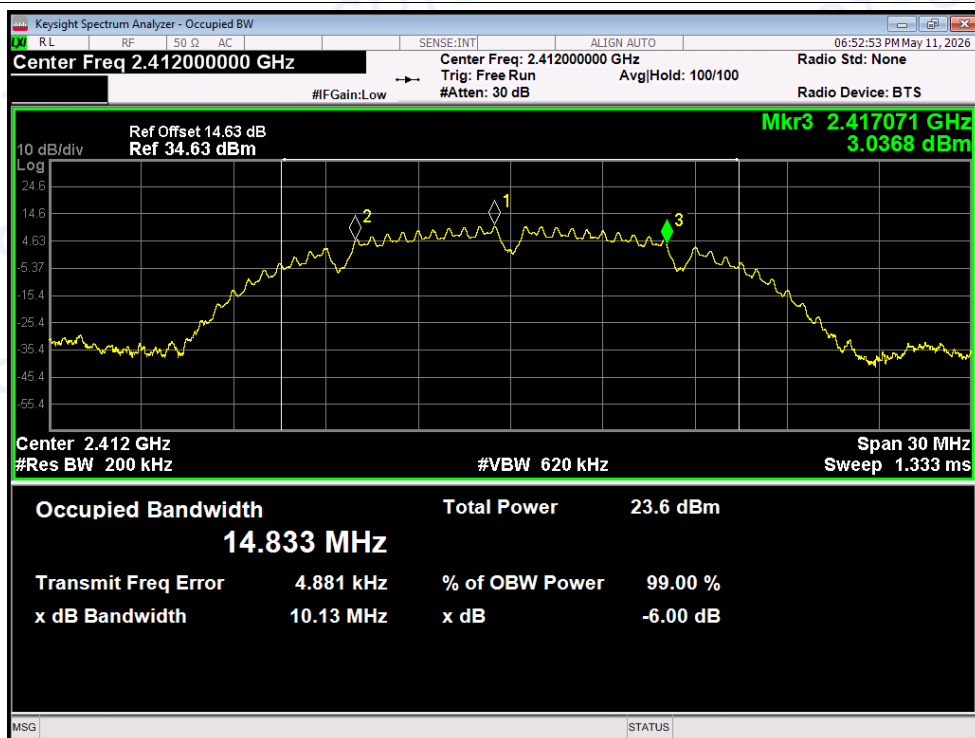
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.99	0.07	19.06	30	Pass
NVNT	b	2437	Ant1	18.94	0.07	19.01	30	Pass
NVNT	b	2462	Ant1	18.72	0.07	18.79	30	Pass
NVNT	g	2412	Ant1	16.7	0.12	16.82	30	Pass
NVNT	g	2437	Ant1	16.38	0.12	16.5	30	Pass
NVNT	g	2462	Ant1	16.32	0.12	16.44	30	Pass
NVNT	n(HT20)	2412	Ant1	16.67	0.13	16.8	30	Pass
NVNT	n(HT20)	2437	Ant1	16.36	0.13	16.49	30	Pass
NVNT	n(HT20)	2462	Ant1	16.25	0.13	16.38	30	Pass

3. -6dB Bandwidth

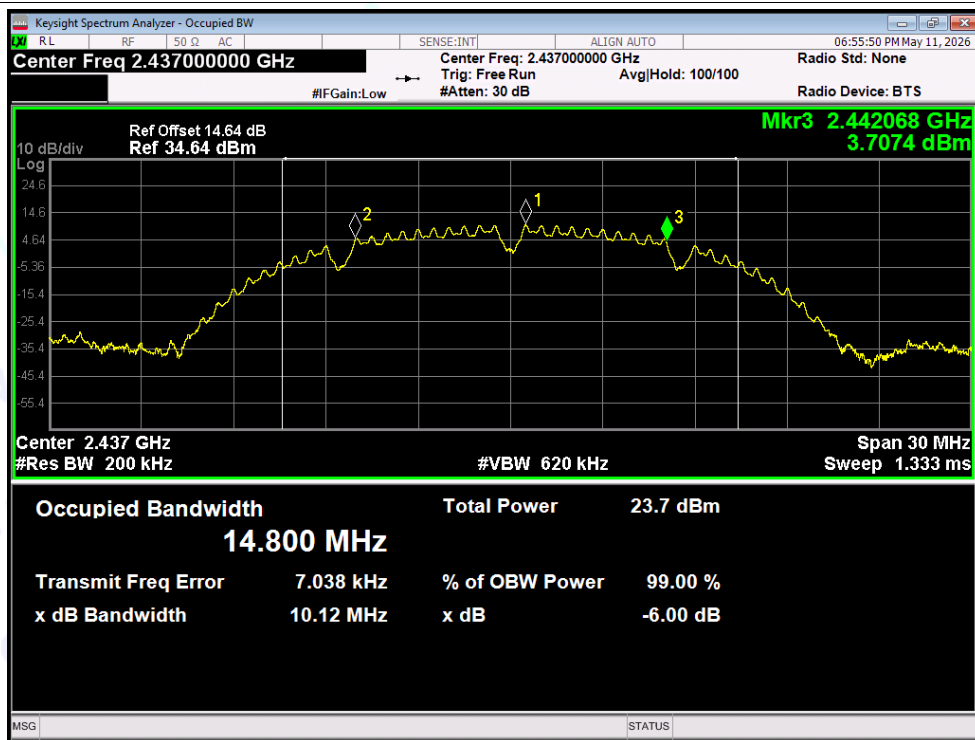
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.13	0.5	Pass
NVNT	b	2437	Ant1	10.12	0.5	Pass
NVNT	b	2462	Ant1	10.12	0.5	Pass
NVNT	g	2412	Ant1	16.41	0.5	Pass
NVNT	g	2437	Ant1	16.37	0.5	Pass
NVNT	g	2462	Ant1	16.42	0.5	Pass
NVNT	n(HT20)	2412	Ant1	17.5	0.5	Pass
NVNT	n(HT20)	2437	Ant1	17.44	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17.43	0.5	Pass

Test Graphs

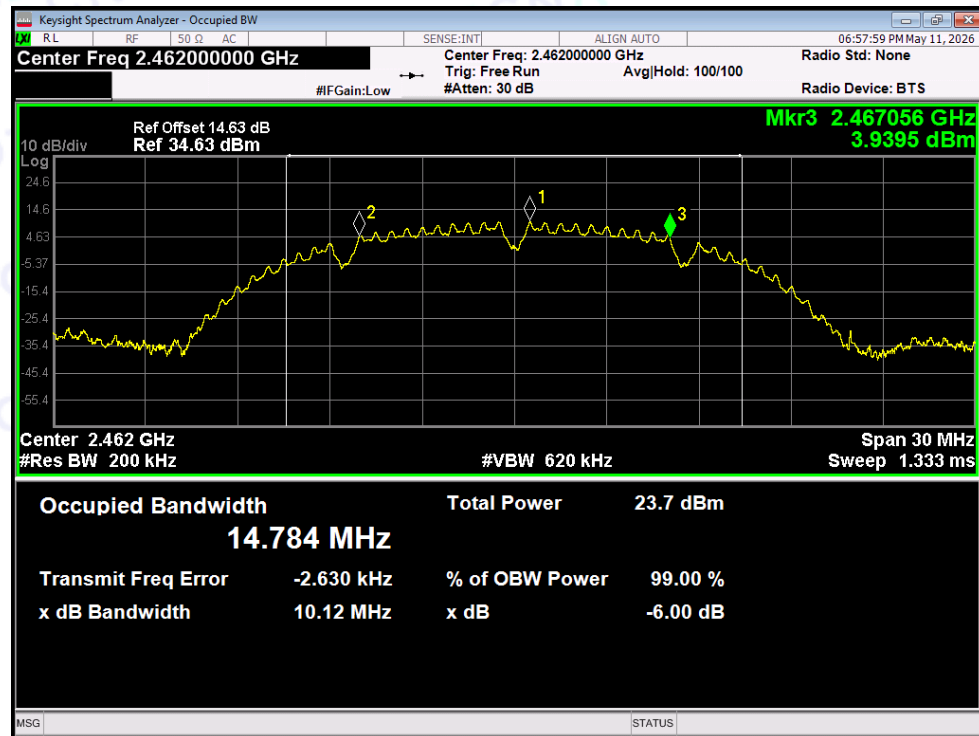
-6dB Bandwidth NVNT b 2412MHz Ant1



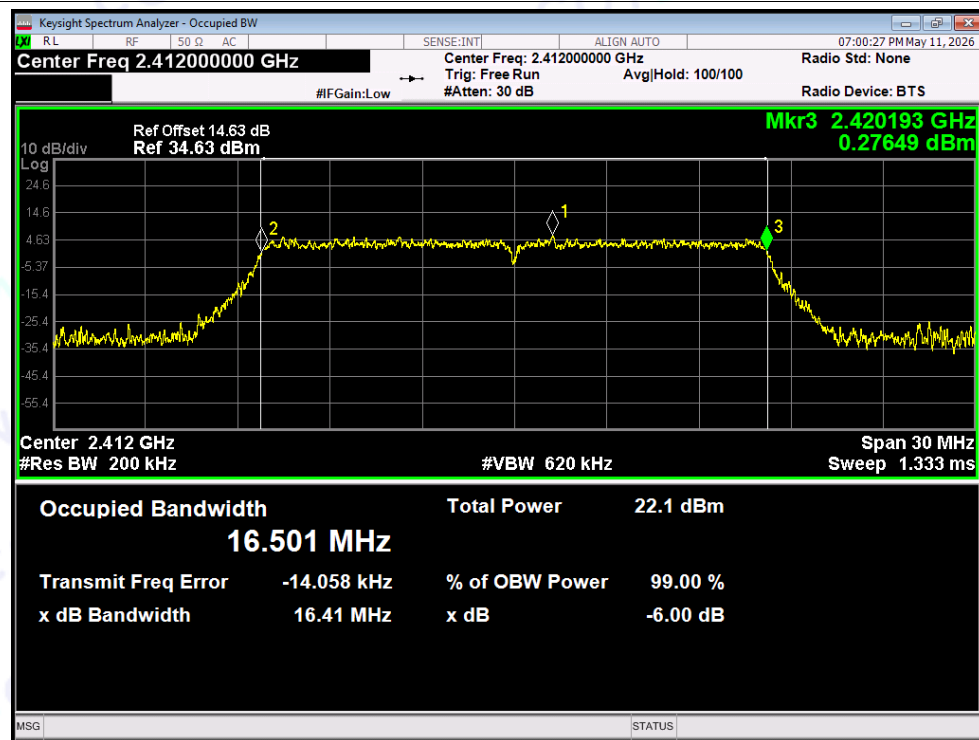
-6dB Bandwidth NVNT b 2437MHz Ant1



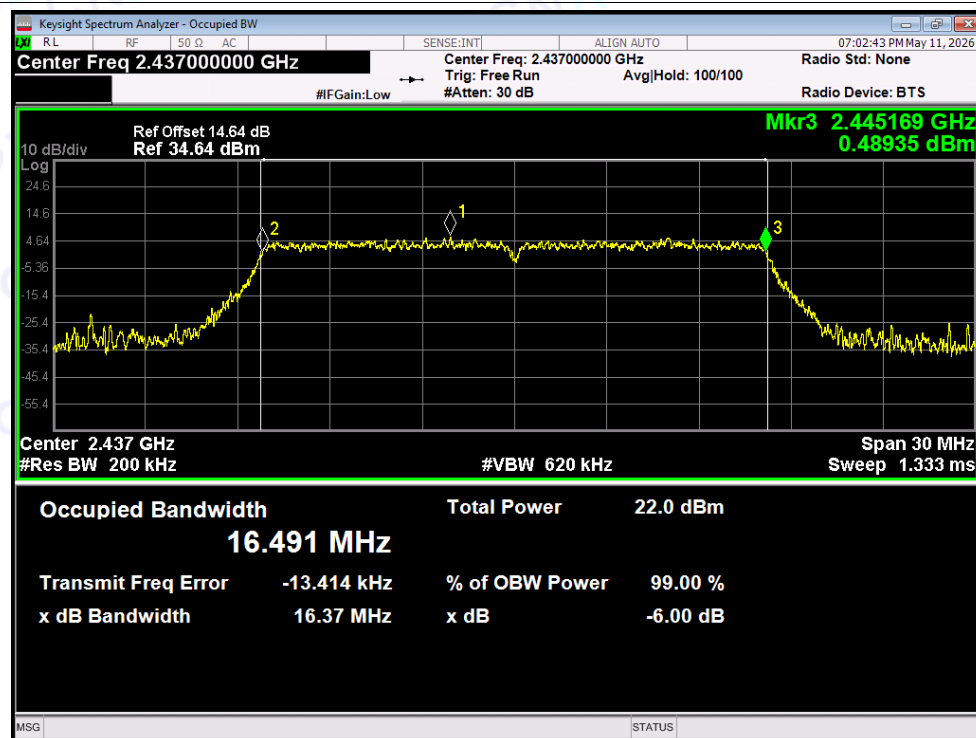
-6dB Bandwidth NVNT b 2462MHz Ant1



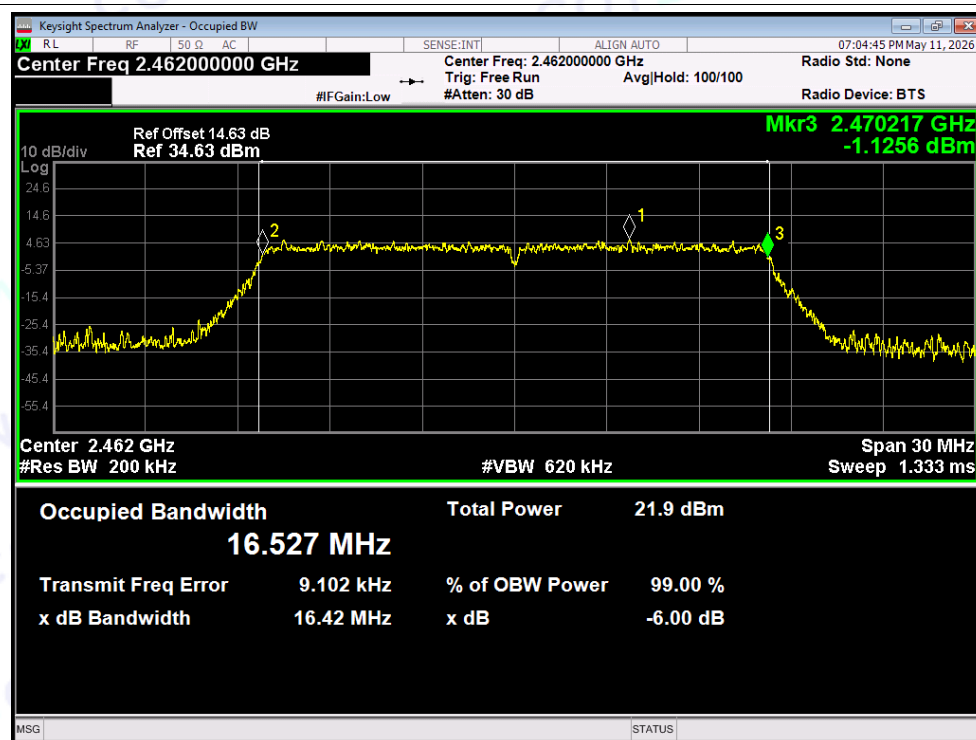
-6dB Bandwidth NVNT g 2412MHz Ant1



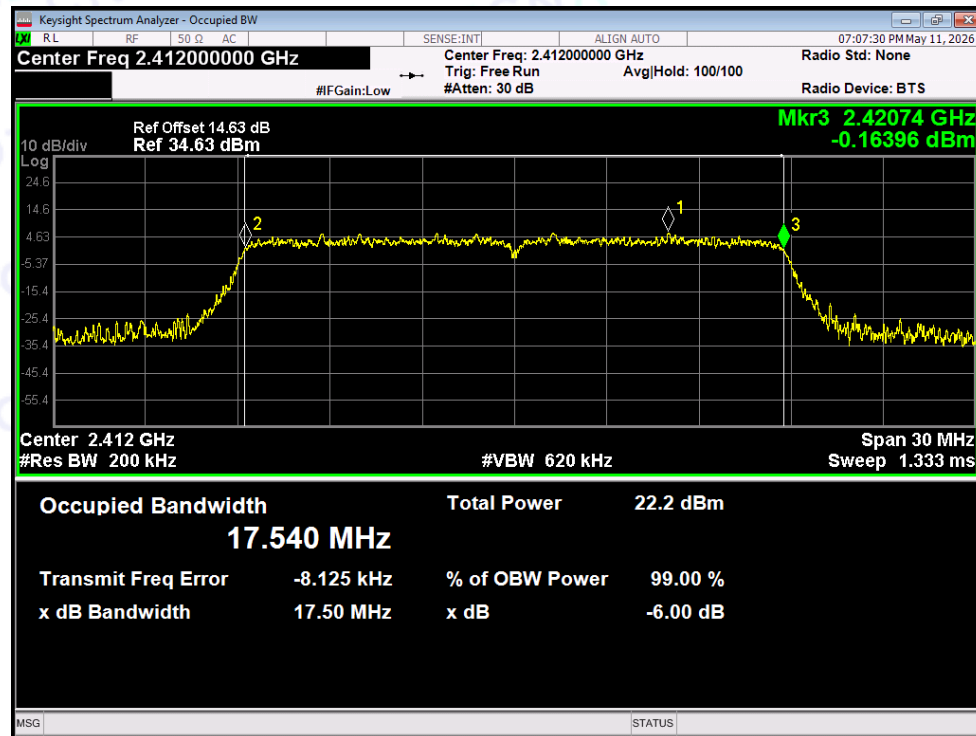
-6dB Bandwidth NVNT g 2437MHz Ant1



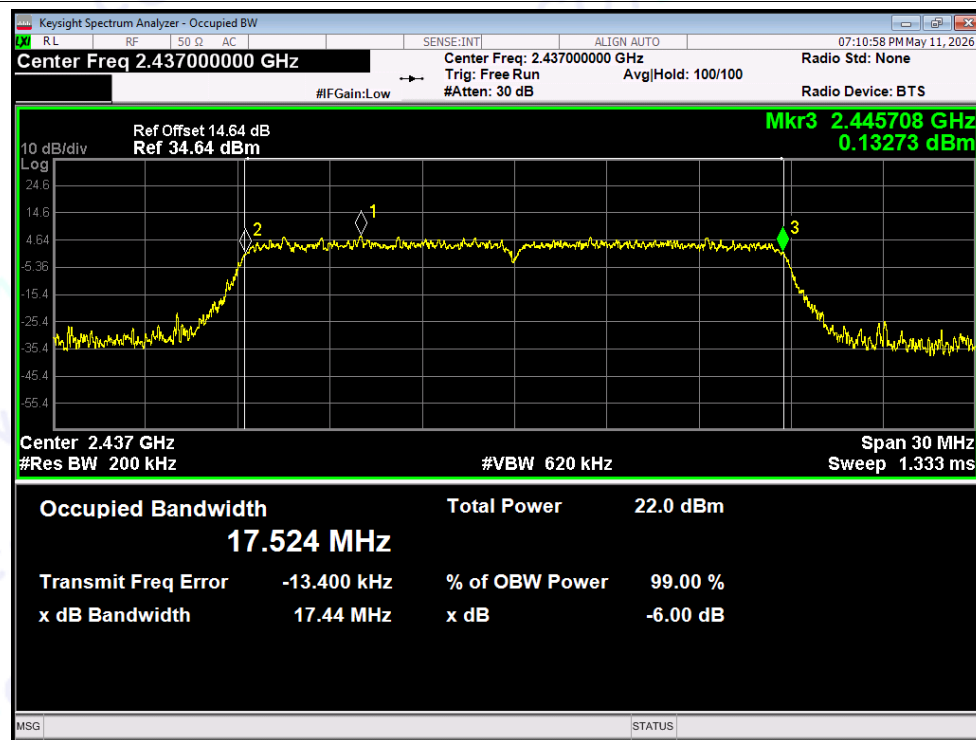
-6dB Bandwidth NVNT g 2462MHz Ant1

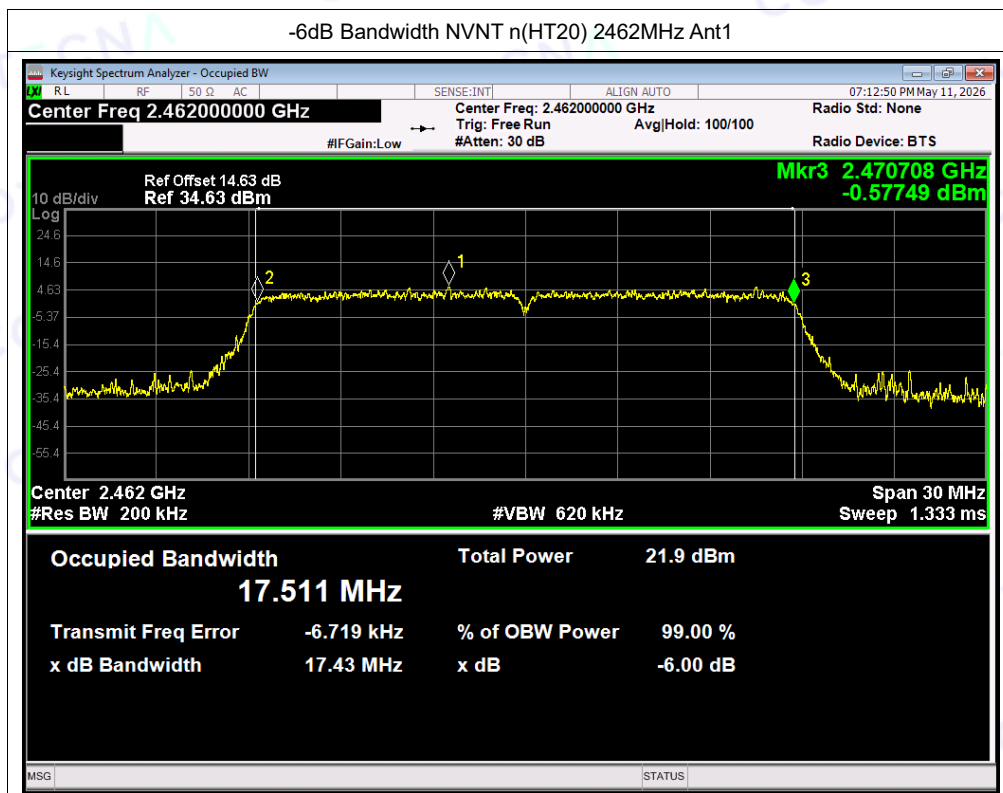


-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



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



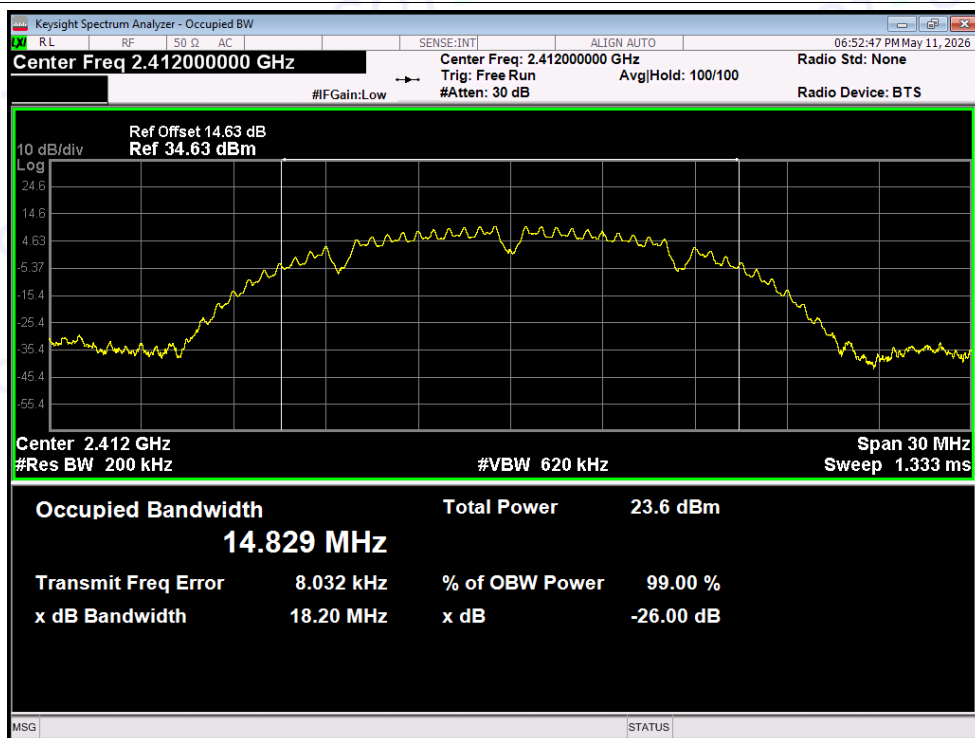


4. Occupied Channel Bandwidth

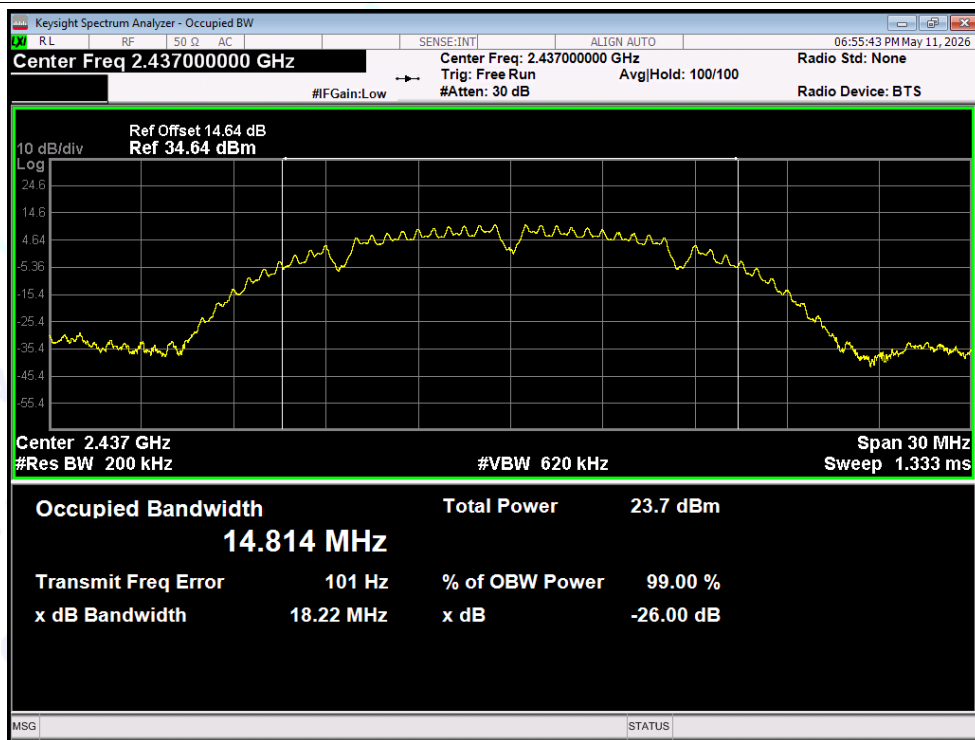
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.829
NVNT	b	2437	Ant1	14.814
NVNT	b	2462	Ant1	14.809
NVNT	g	2412	Ant1	16.493
NVNT	g	2437	Ant1	16.485
NVNT	g	2462	Ant1	16.52
NVNT	n(HT20)	2412	Ant1	17.519
NVNT	n(HT20)	2437	Ant1	17.518
NVNT	n(HT20)	2462	Ant1	17.525

Test Graphs

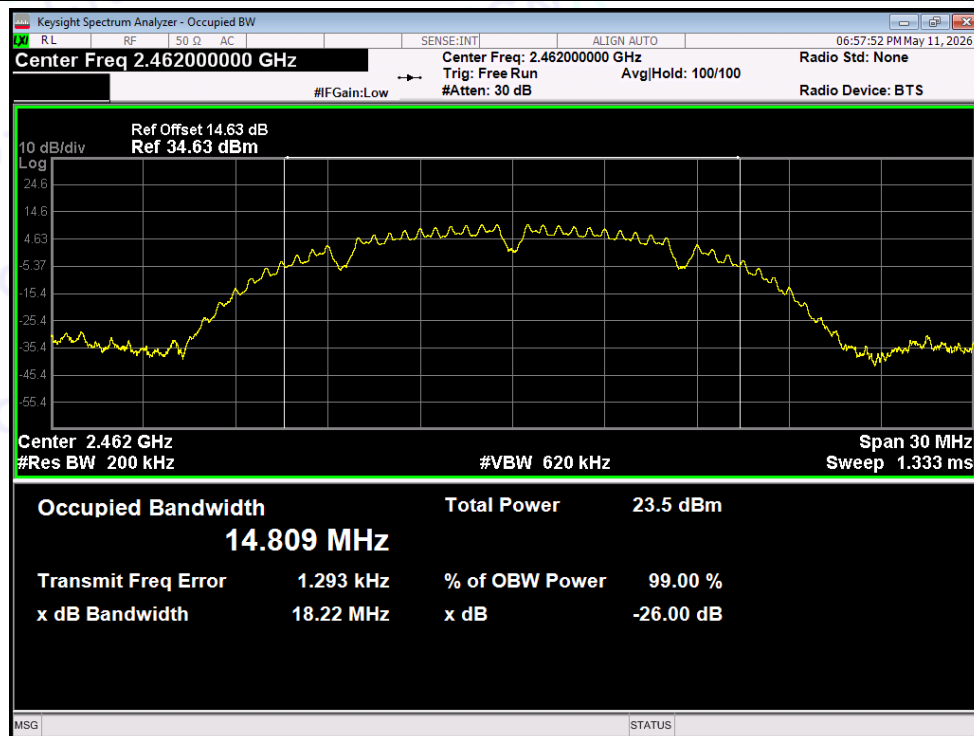
OBW NVNT b 2412MHz Ant1



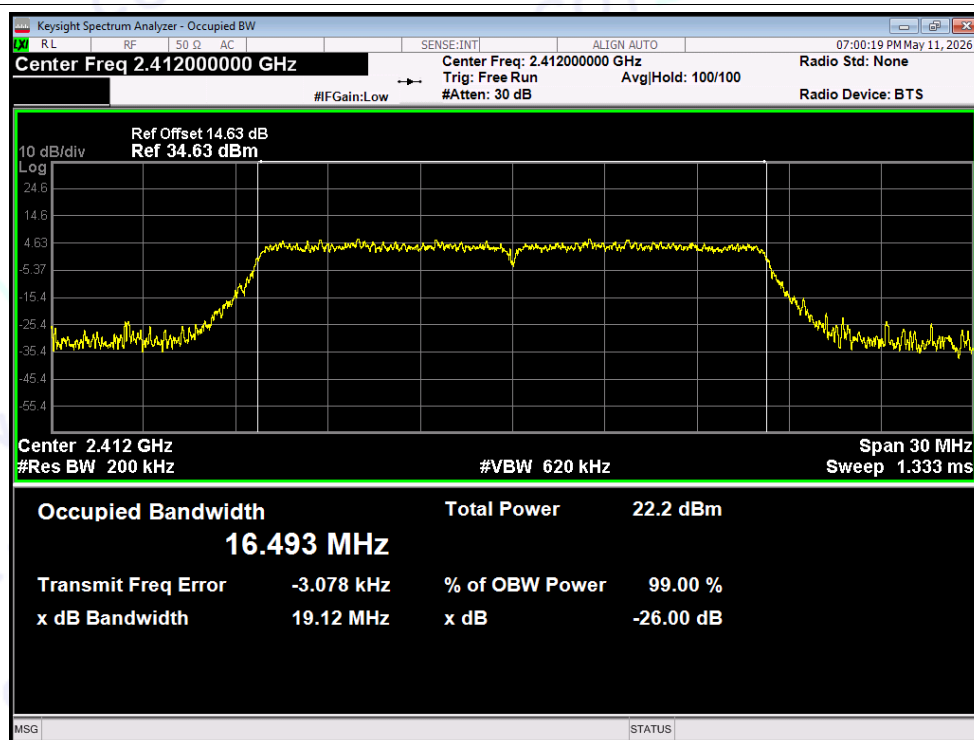
OBW NVNT b 2437MHz Ant1



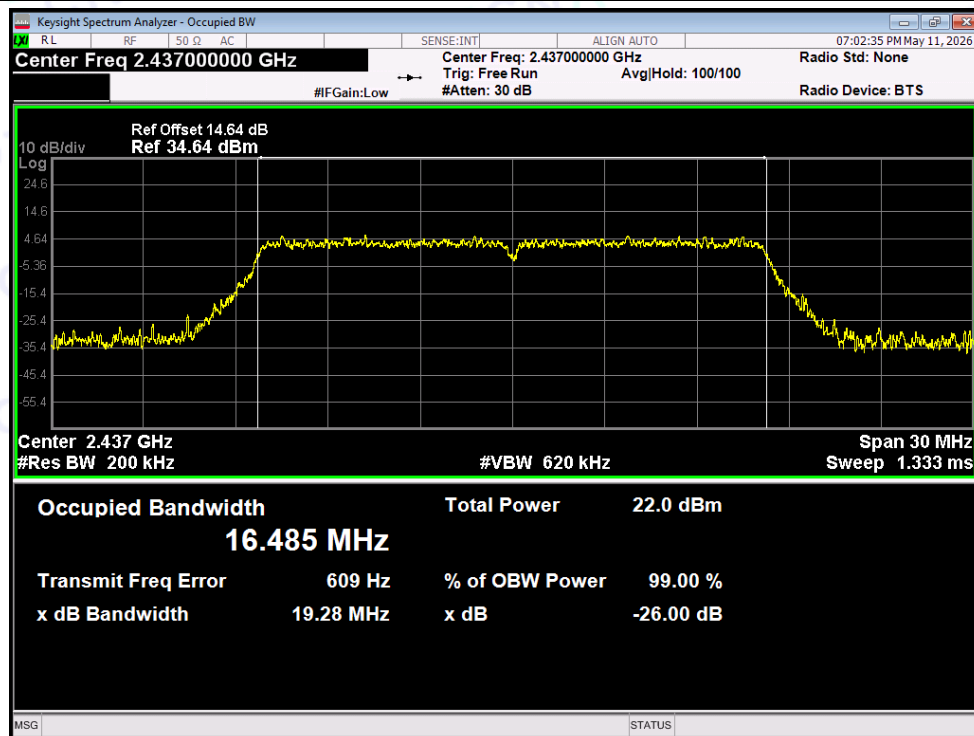
OBW NVNT b 2462MHz Ant1



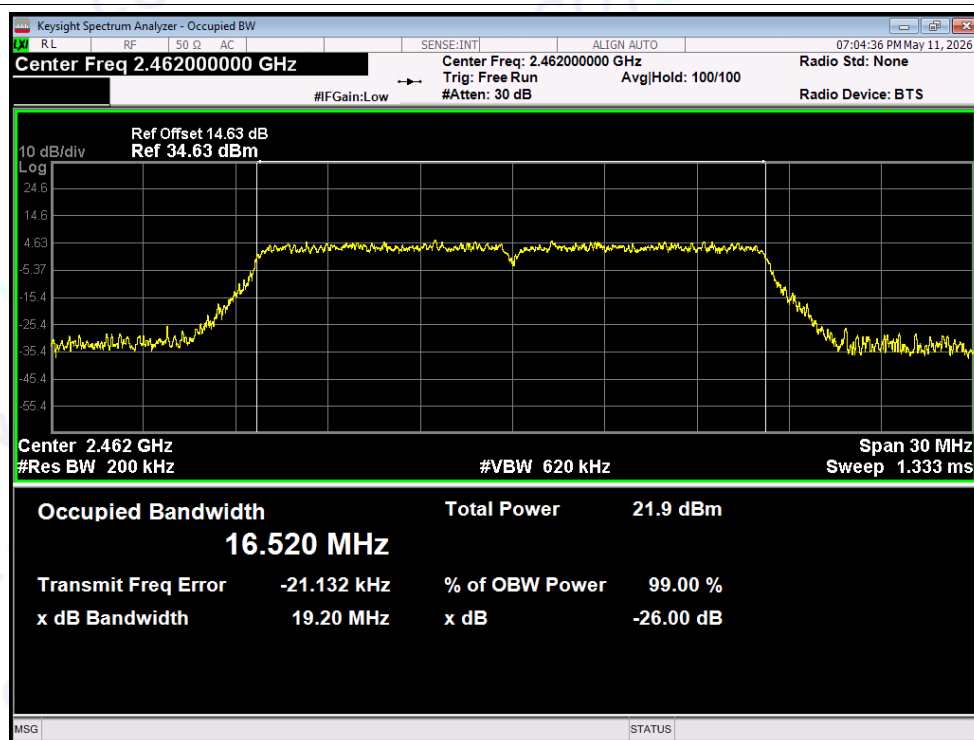
OBW NVNT g 2412MHz Ant1



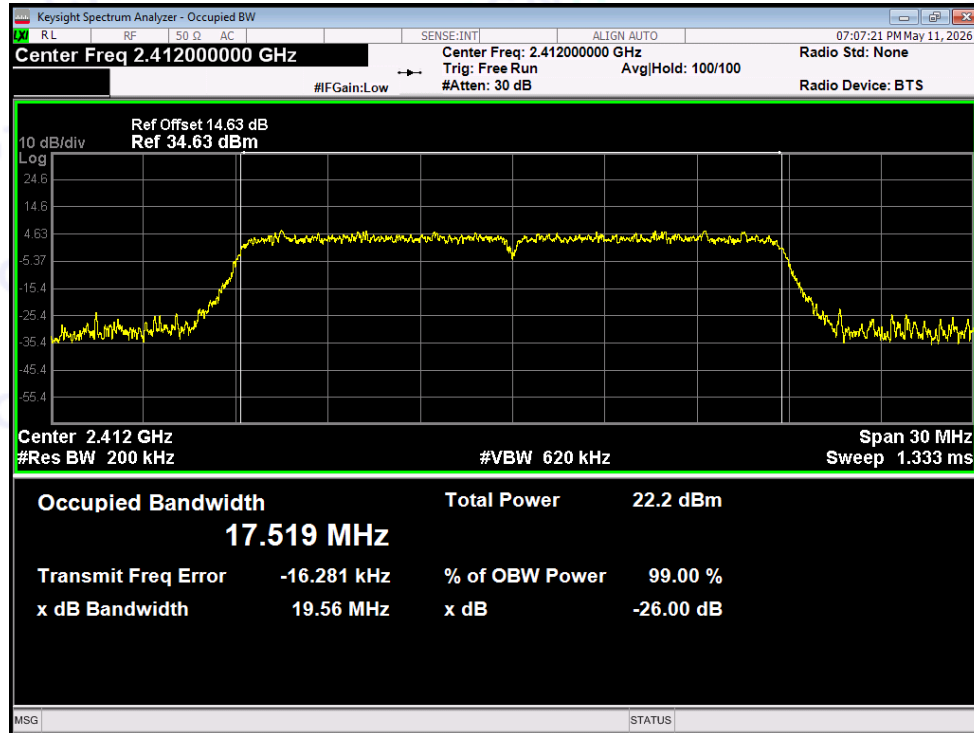
OBW NVNT g 2437MHz Ant1



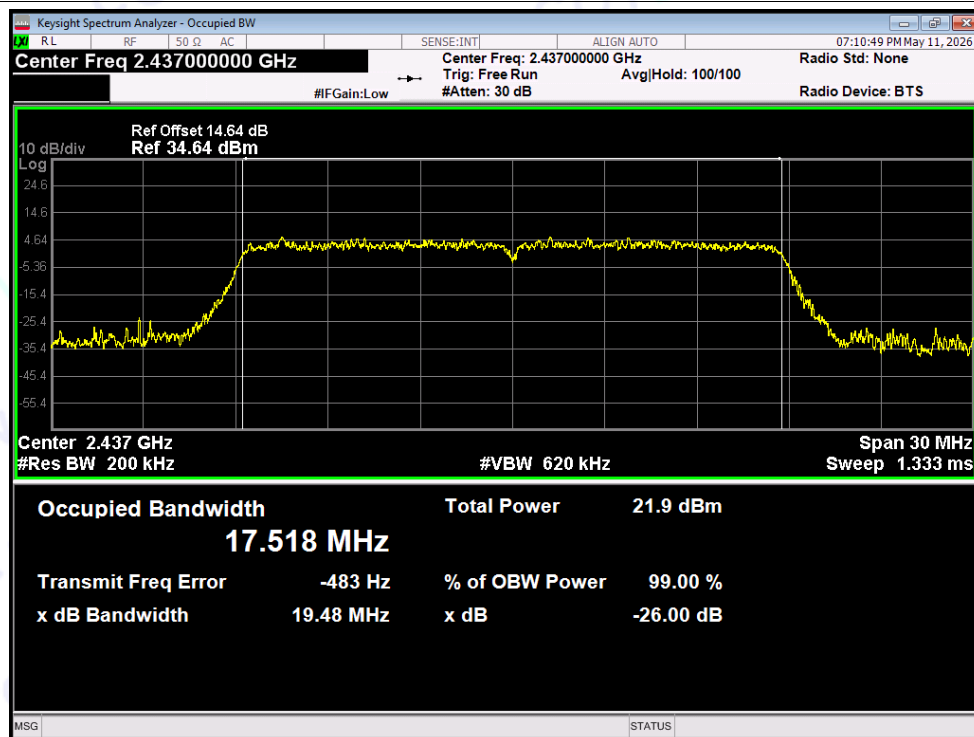
OBW NVNT g 2462MHz Ant1

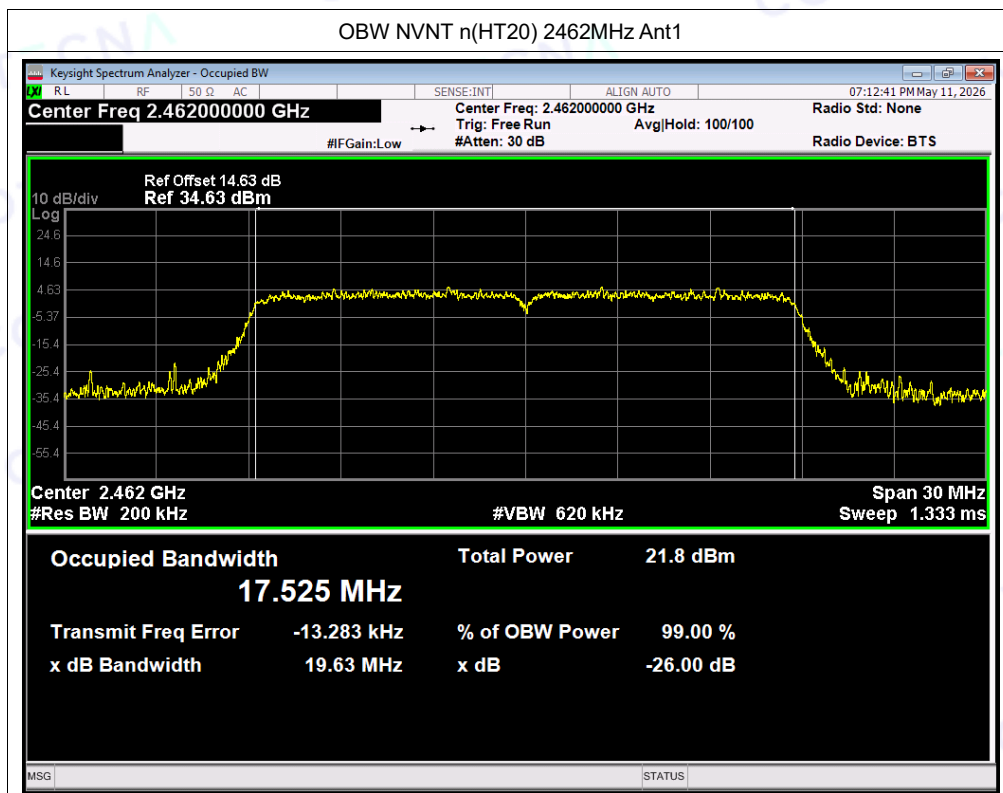


OBW NVNT n(HT20) 2412MHz Ant1



OBW NVNT n(HT20) 2437MHz Ant1



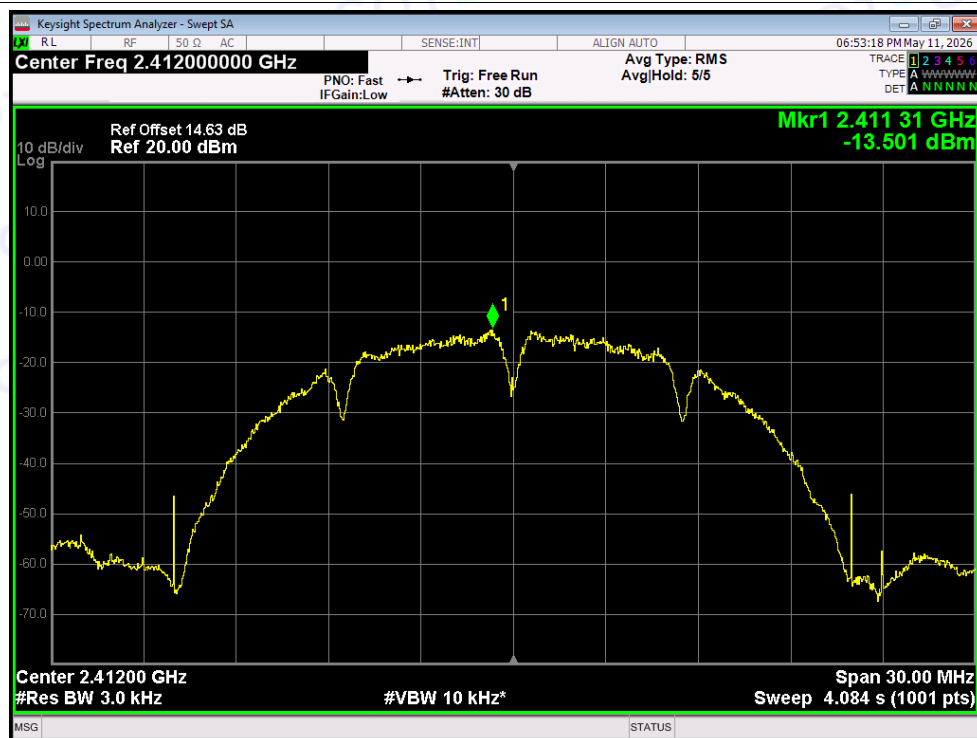


5. Maximum Power Spectral Density Level

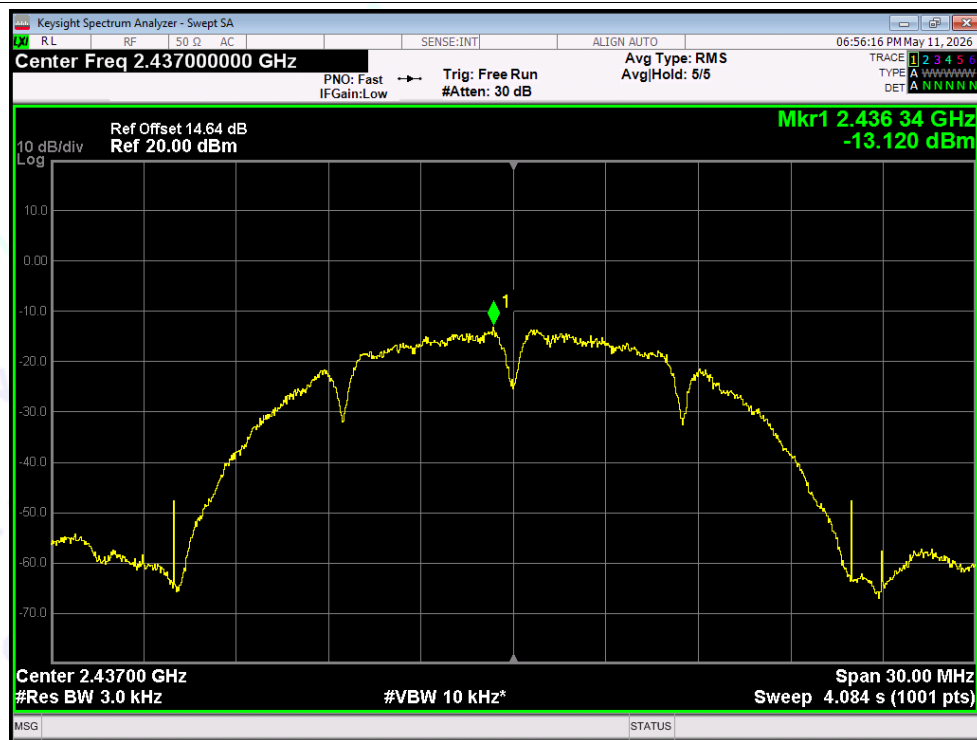
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-13.501	8	Pass
NVNT	b	2437	Ant1	-13.12	8	Pass
NVNT	b	2462	Ant1	-13.33	8	Pass
NVNT	g	2412	Ant1	-17.884	8	Pass
NVNT	g	2437	Ant1	-17.921	8	Pass
NVNT	g	2462	Ant1	-18.158	8	Pass
NVNT	n(HT20)	2412	Ant1	-17.966	8	Pass
NVNT	n(HT20)	2437	Ant1	-18.62	8	Pass
NVNT	n(HT20)	2462	Ant1	-18.136	8	Pass

Test Graphs

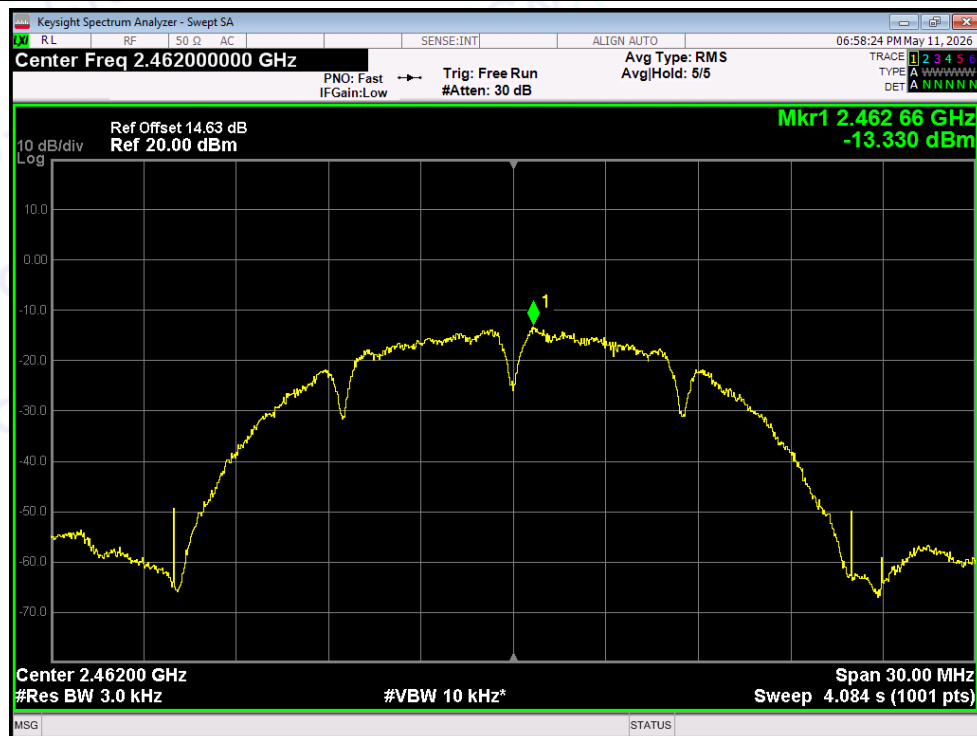
PSD NVNT b 2412MHz Ant1



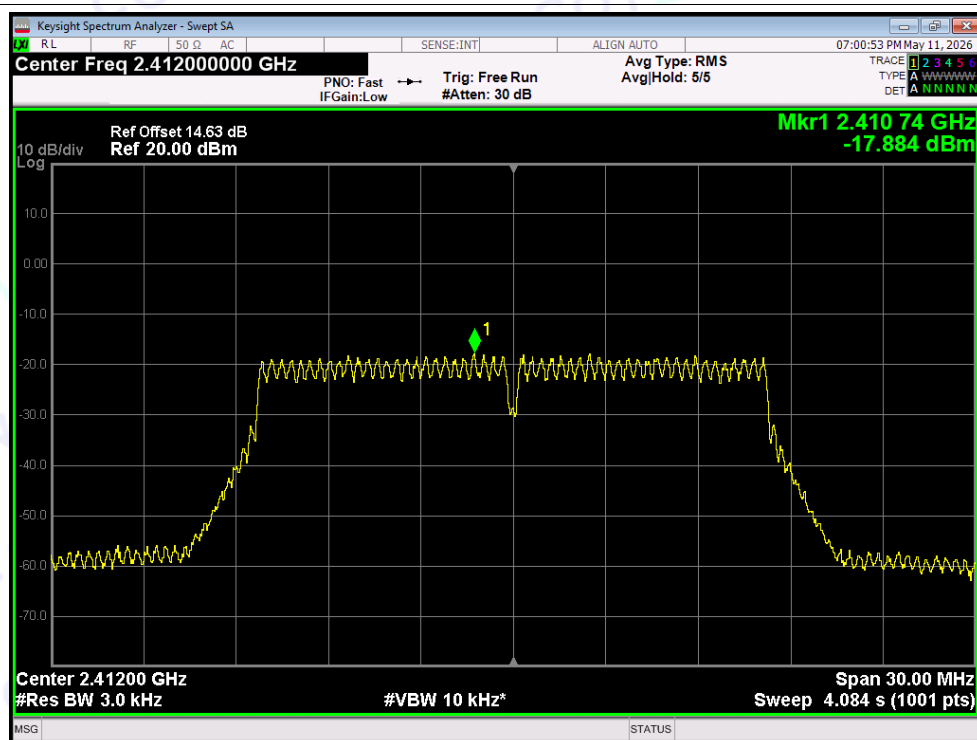
PSD NVNT b 2437MHz Ant1



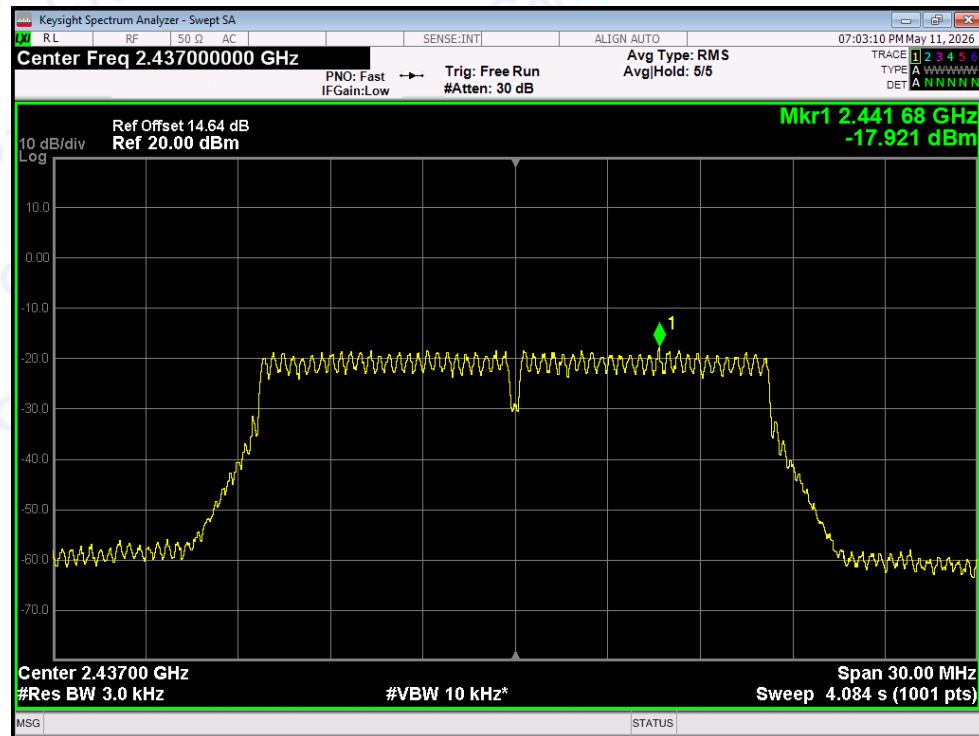
PSD NVNT b 2462MHz Ant1



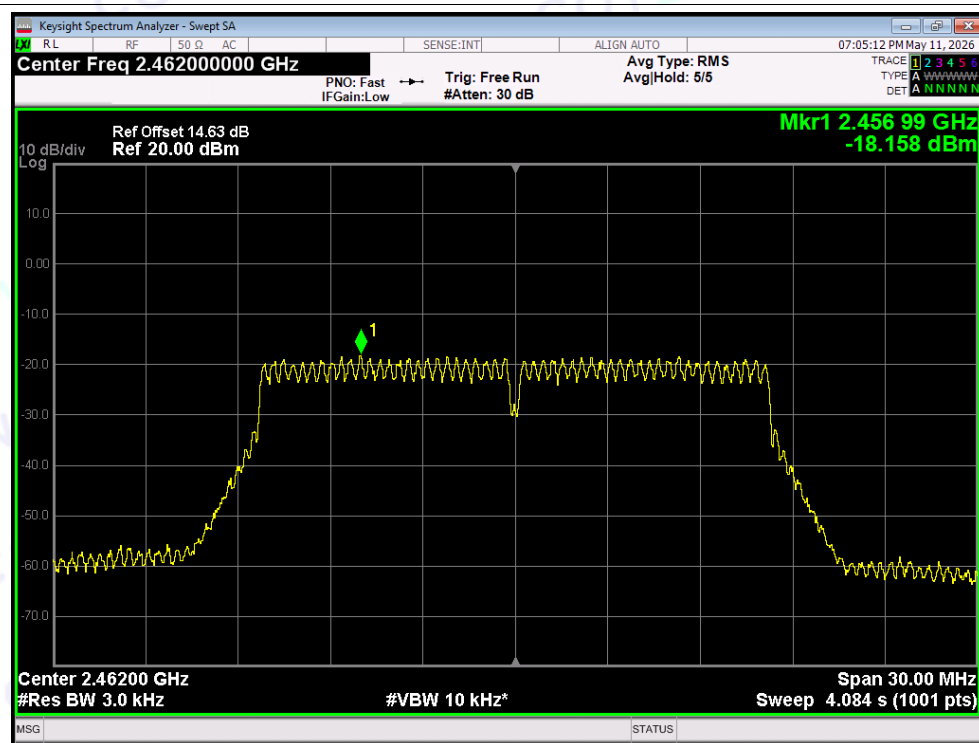
PSD NVNT g 2412MHz Ant1



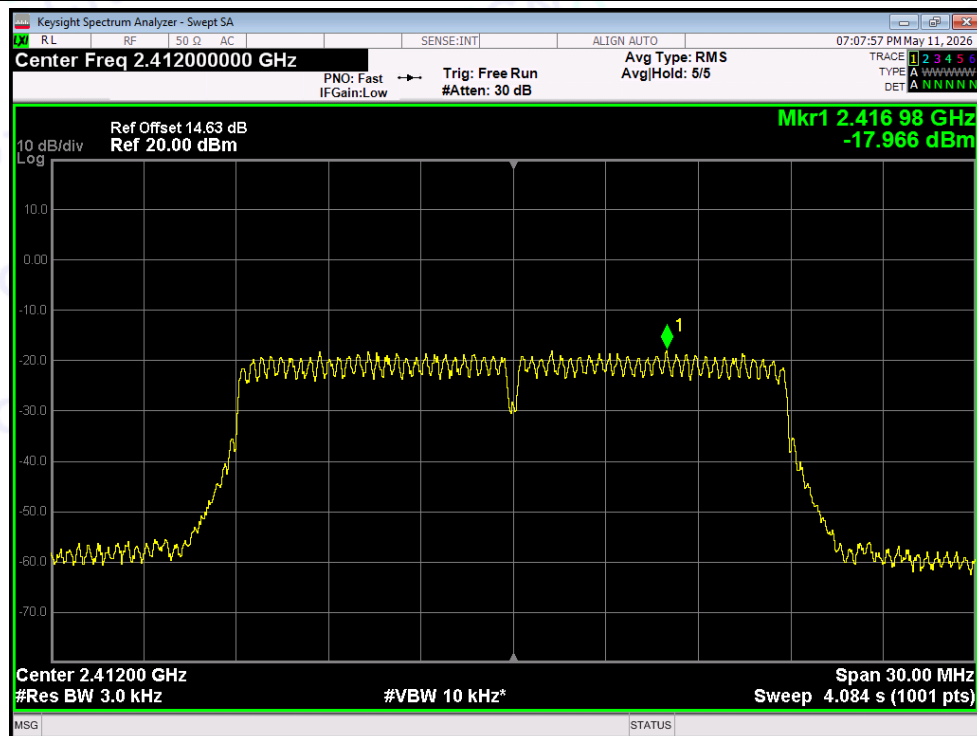
PSD NVNT g 2437MHz Ant1



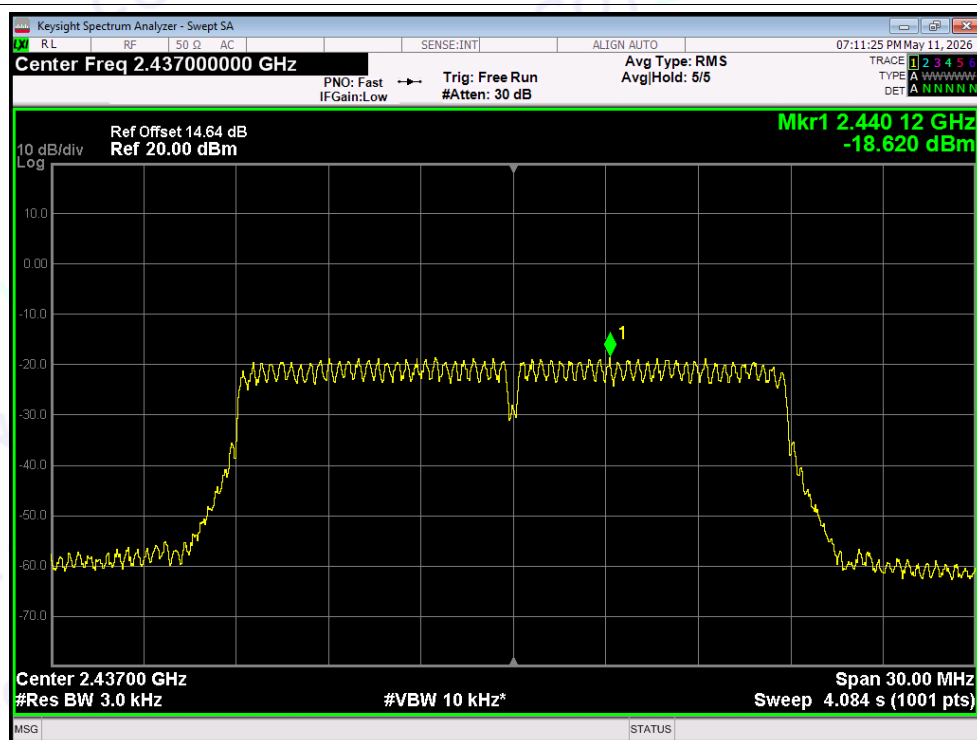
PSD NVNT g 2462MHz Ant1

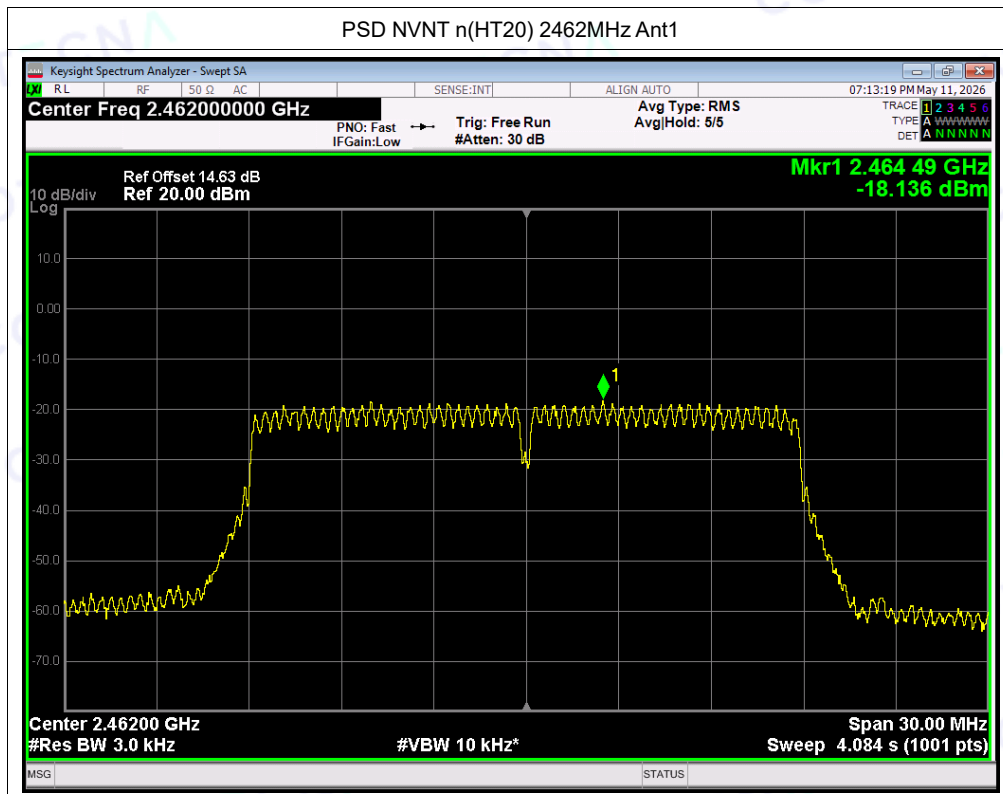


PSD NVNT n(HT20) 2412MHz Ant1



PSD NVNT n(HT20) 2437MHz Ant1



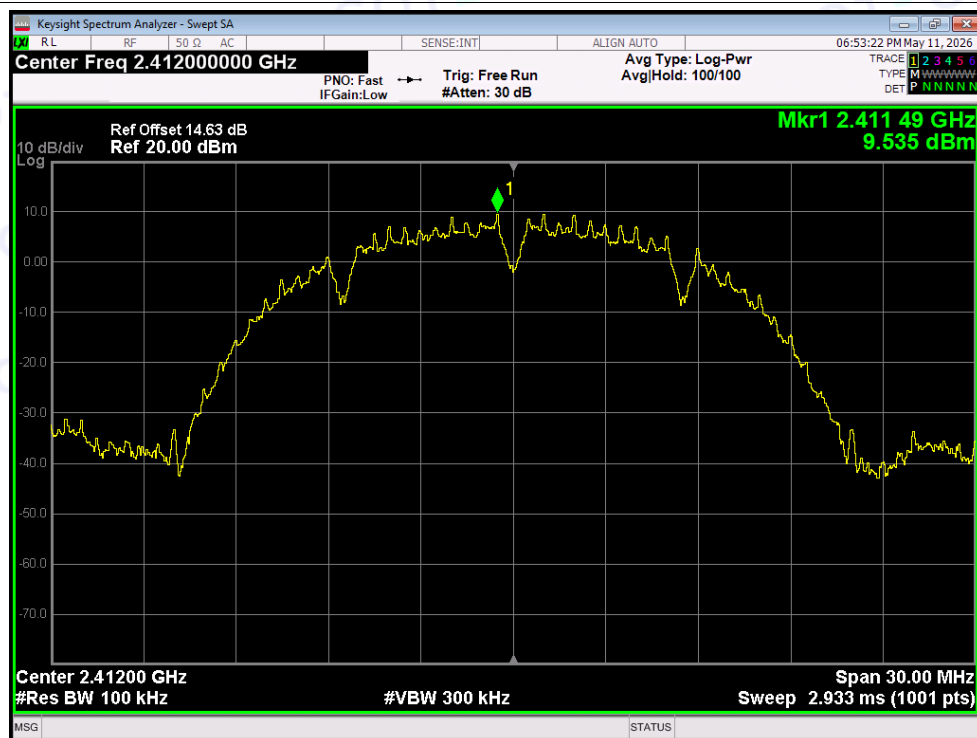


6. Band Edge

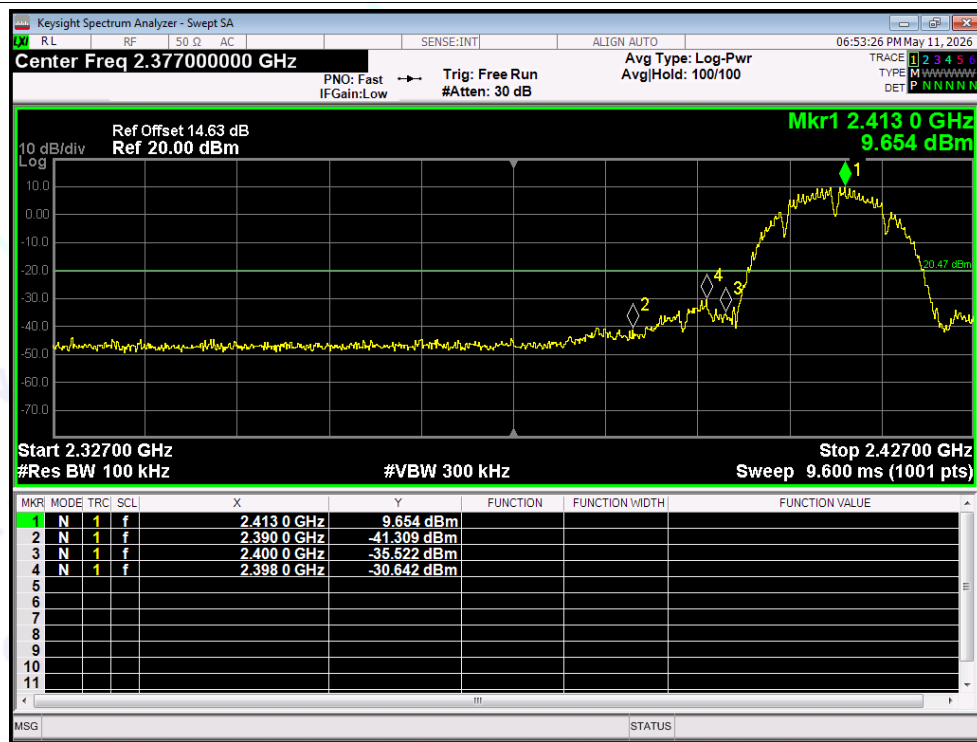
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.17	-30	Pass
NVNT	b	2462	Ant1	-48.84	-30	Pass
NVNT	g	2412	Ant1	-34.8	-30	Pass
NVNT	g	2462	Ant1	-42.86	-30	Pass
NVNT	n(HT20)	2412	Ant1	-33.96	-30	Pass
NVNT	n(HT20)	2462	Ant1	-44.18	-30	Pass

Test Graphs

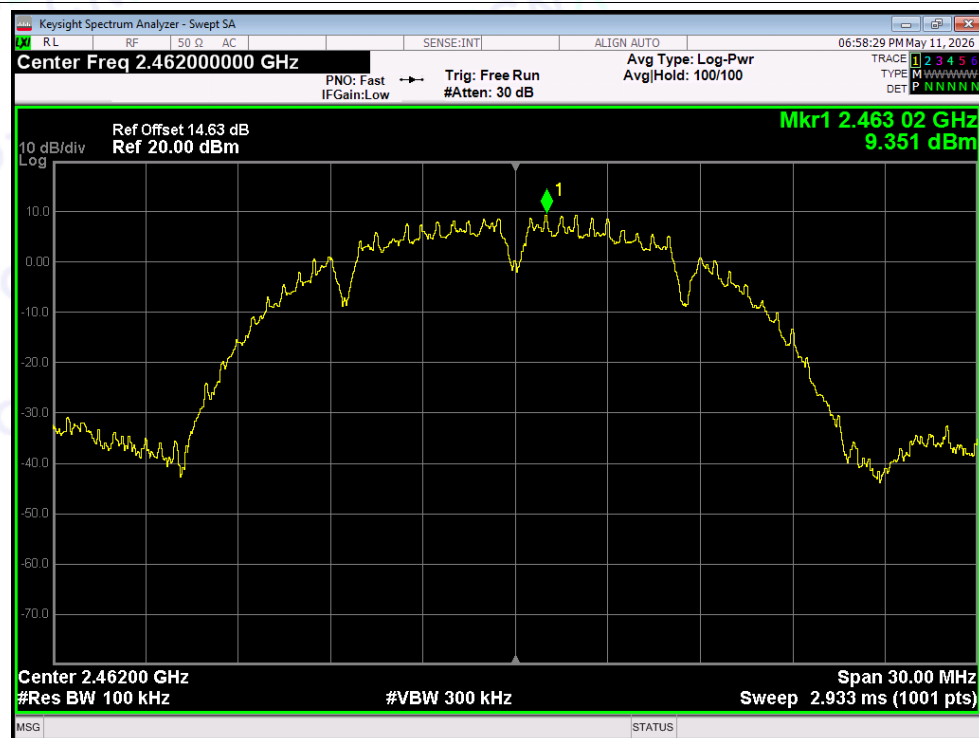
Band Edge NVNT b 2412MHz Ant1 Ref



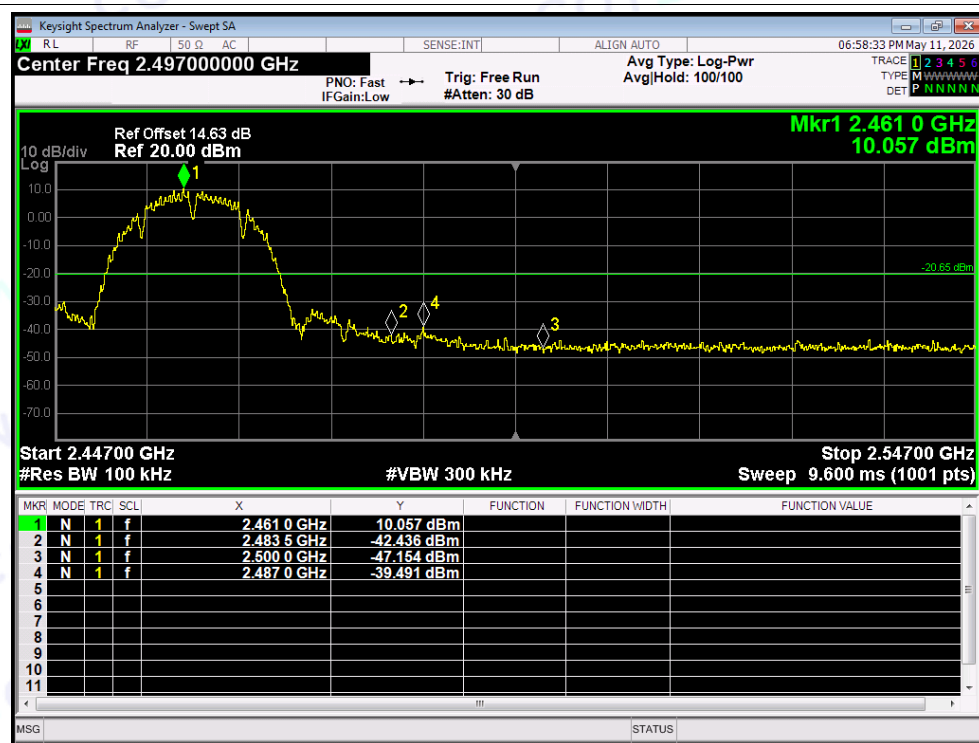
Band Edge NVNT b 2412MHz Ant1 Emission



Band Edge NVNT b 2462MHz Ant1 Ref



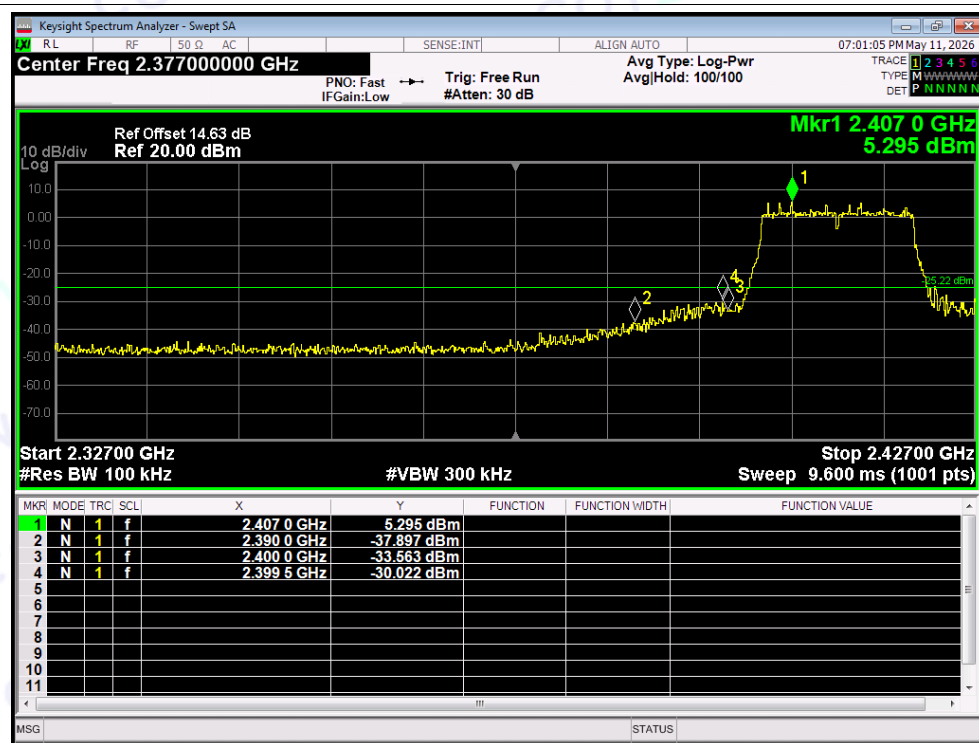
Band Edge NVNT b 2462MHz Ant1 Emission



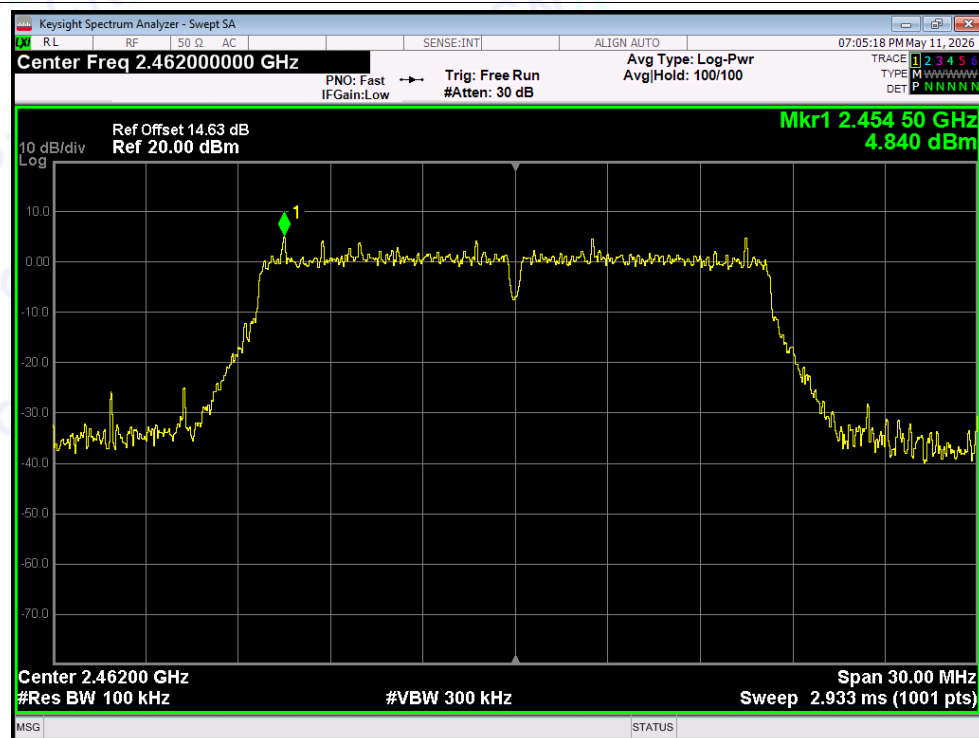
Band Edge NVNT g 2412MHz Ant1 Ref



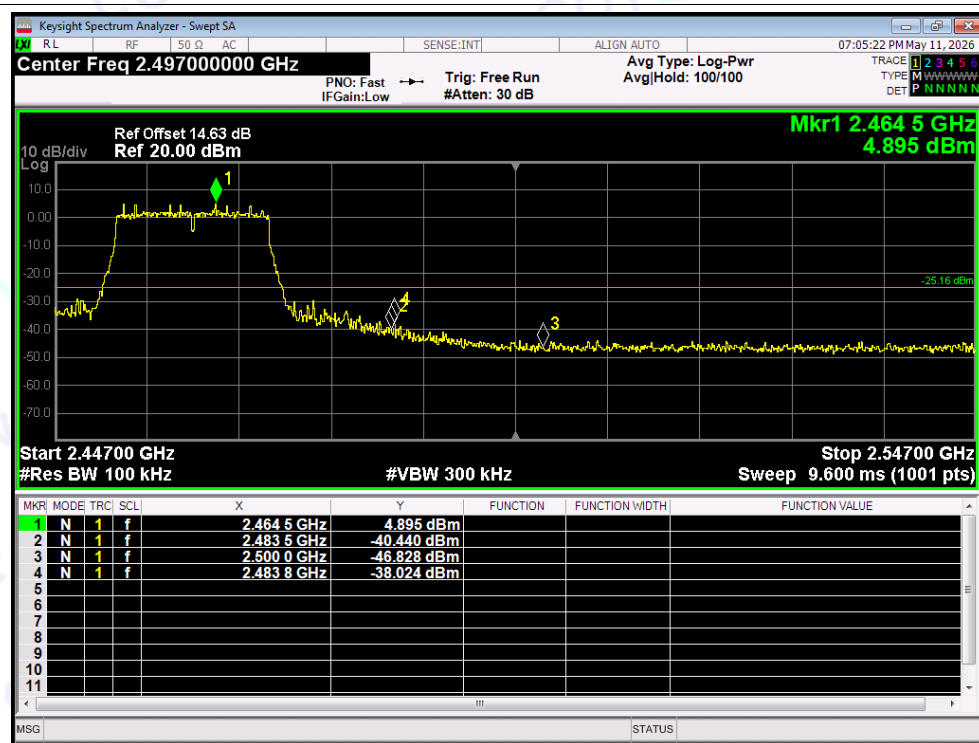
Band Edge NVNT g 2412MHz Ant1 Emission



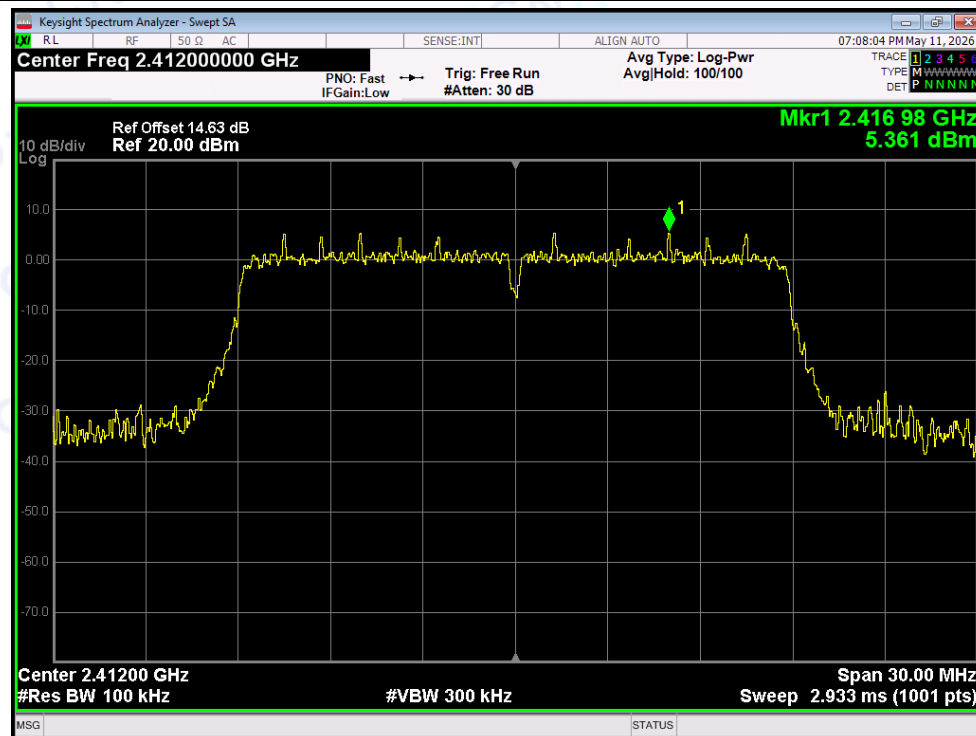
Band Edge NVNT g 2462MHz Ant1 Ref



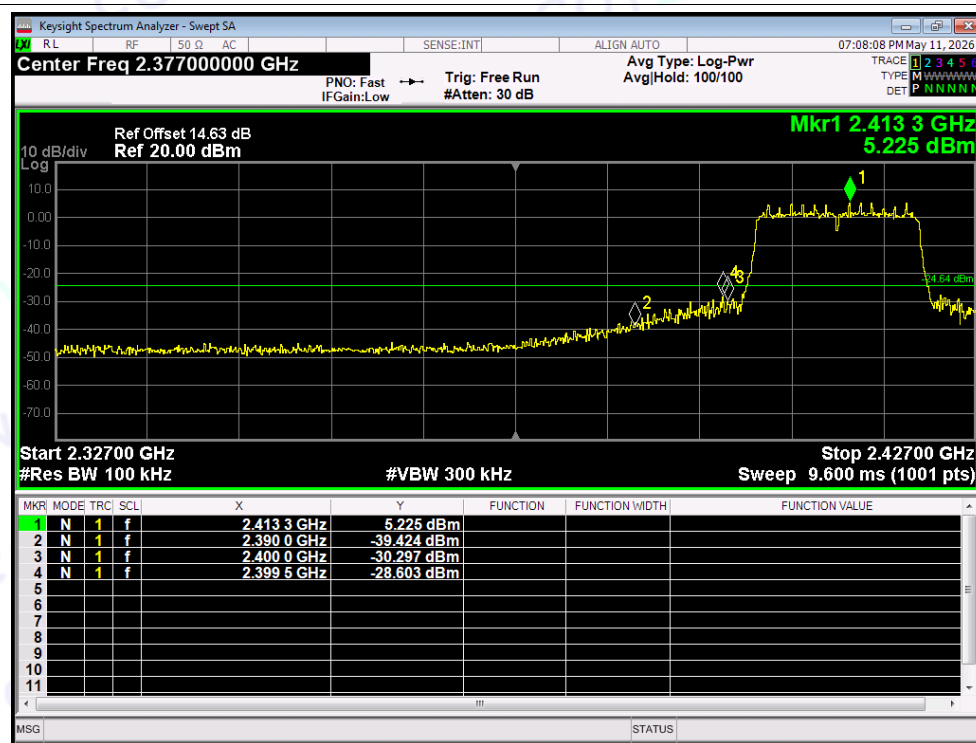
Band Edge NVNT g 2462MHz Ant1 Emission



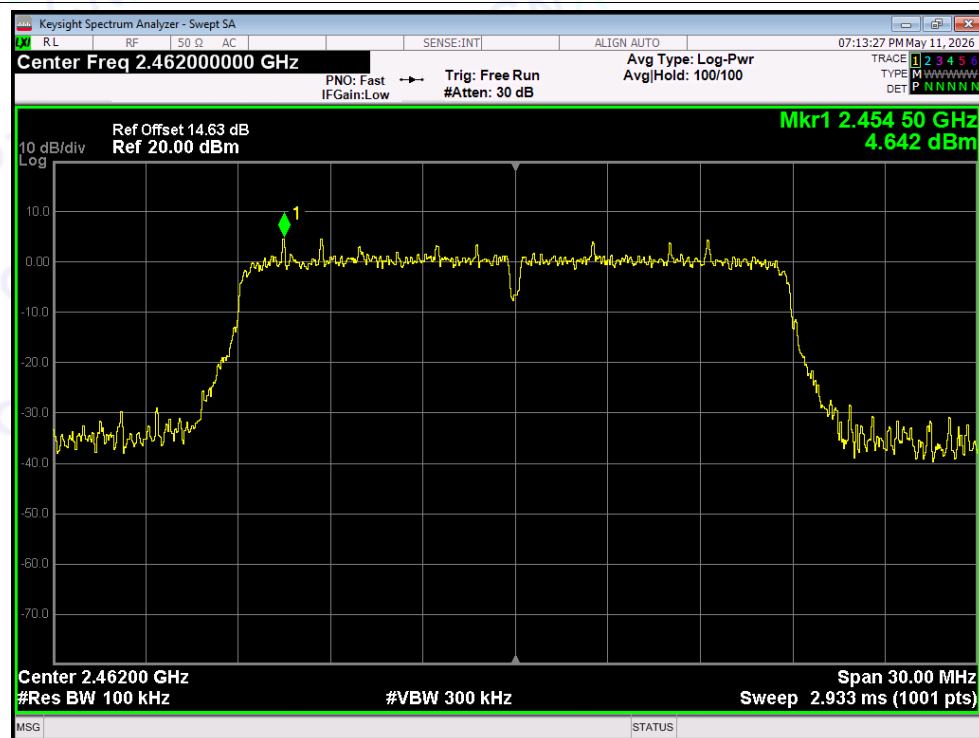
Band Edge NVNT n(HT20) 2412MHz Ant1 Ref



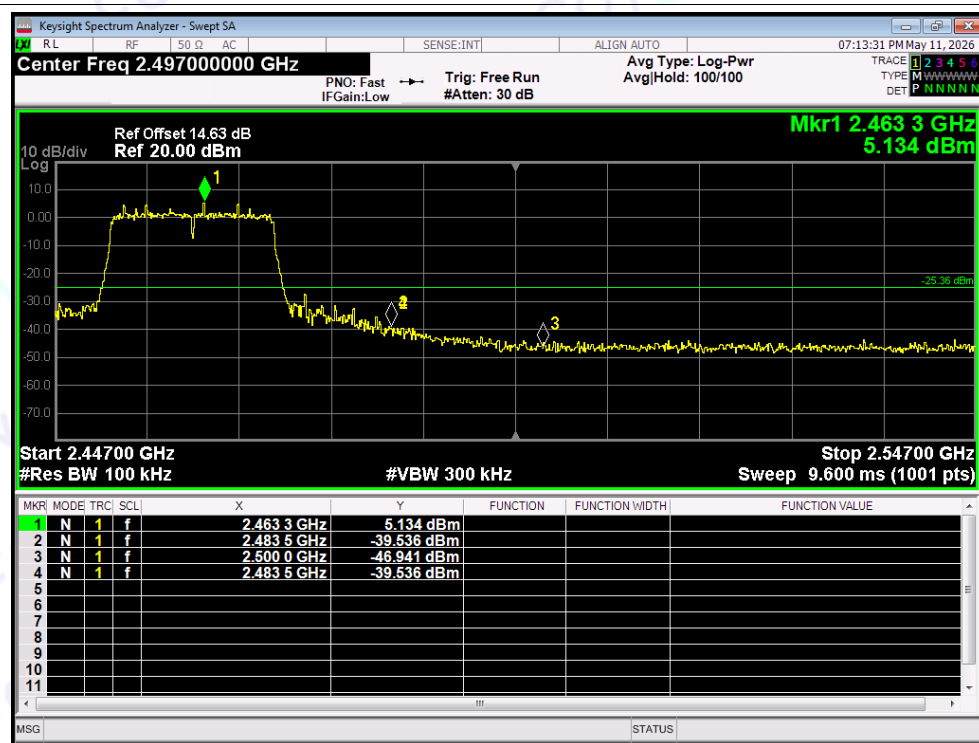
Band Edge NVNT n(HT20) 2412MHz Ant1 Emission



Band Edge NVNT n(HT20) 2462MHz Ant1 Ref



Band Edge NVNT n(HT20) 2462MHz Ant1 Emission

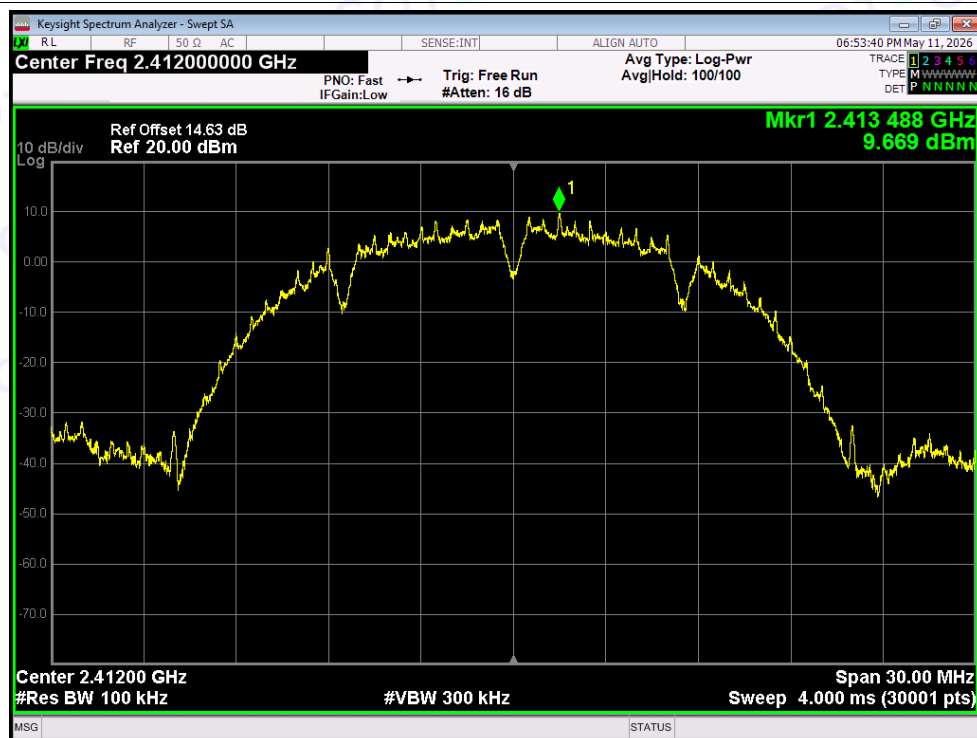


7. Conducted RF Spurious Emission

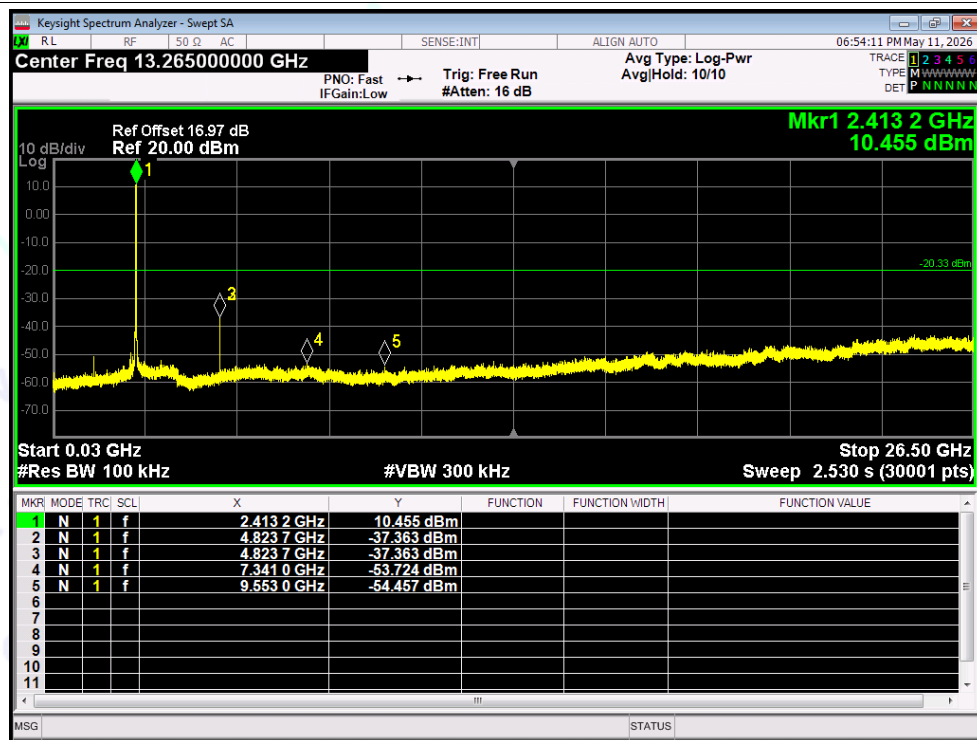
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-47.03	-30	Pass
NVNT	b	2437	Ant1	-47.4	-30	Pass
NVNT	b	2462	Ant1	-48.7	-30	Pass
NVNT	g	2412	Ant1	-48.11	-30	Pass
NVNT	g	2437	Ant1	-47.25	-30	Pass
NVNT	g	2462	Ant1	-47.73	-30	Pass
NVNT	n(HT20)	2412	Ant1	-47.73	-30	Pass
NVNT	n(HT20)	2437	Ant1	-45.52	-30	Pass
NVNT	n(HT20)	2462	Ant1	-47.3	-30	Pass

Test Graphs

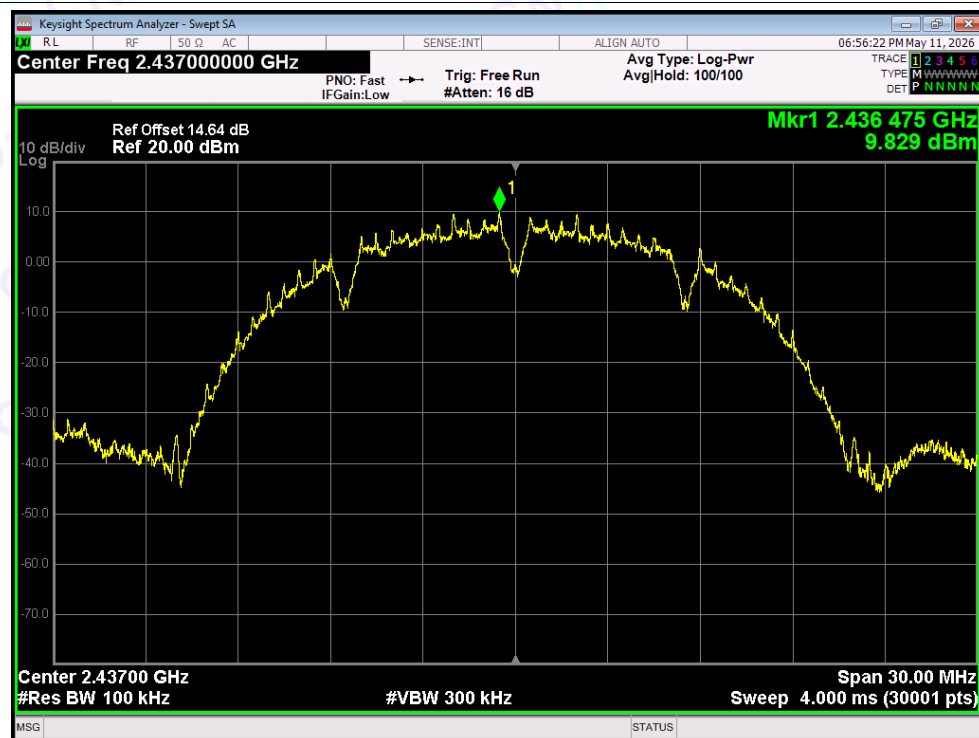
Tx. Spurious NVNT b 2412MHz Ant1 Ref



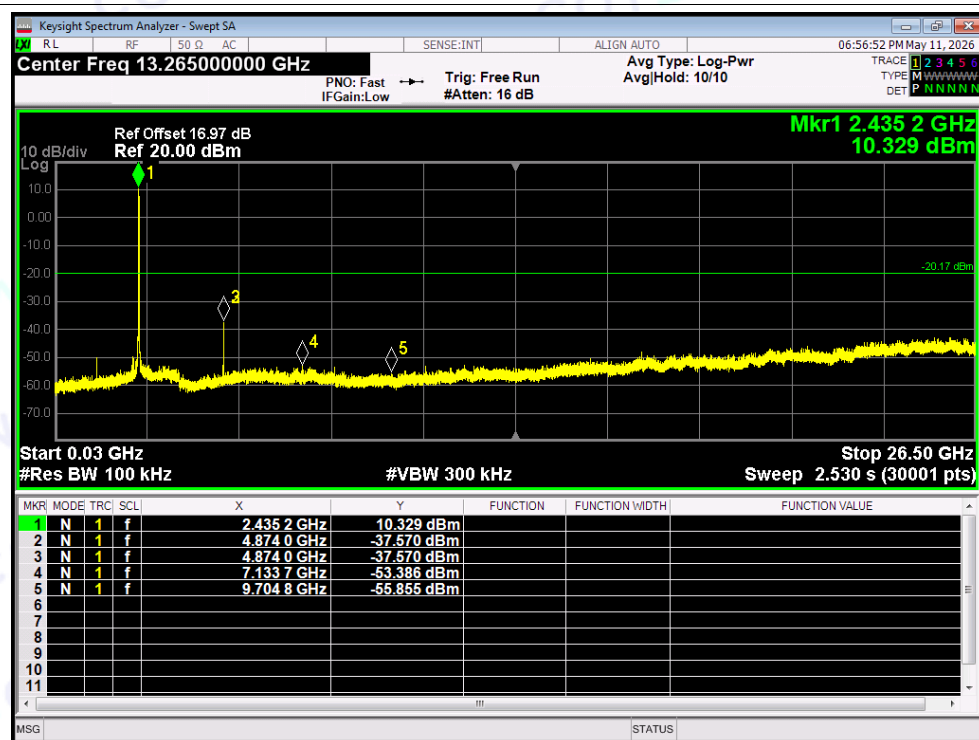
Tx. Spurious NVNT b 2412MHz Ant1 Emission



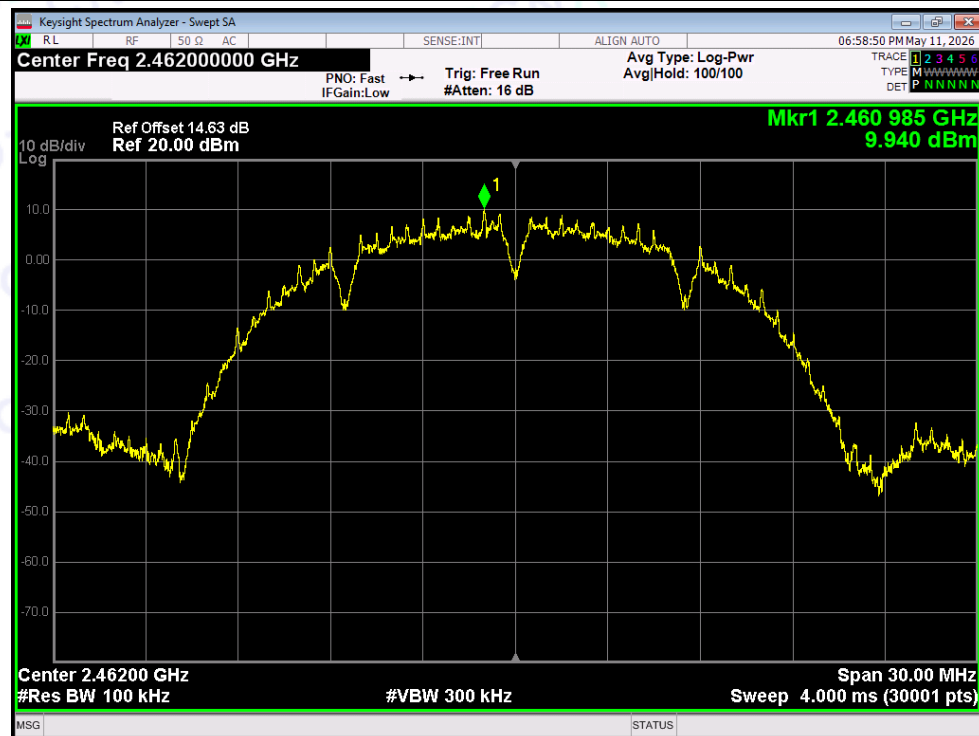
Tx. Spurious NVNT b 2437MHz Ant1 Ref



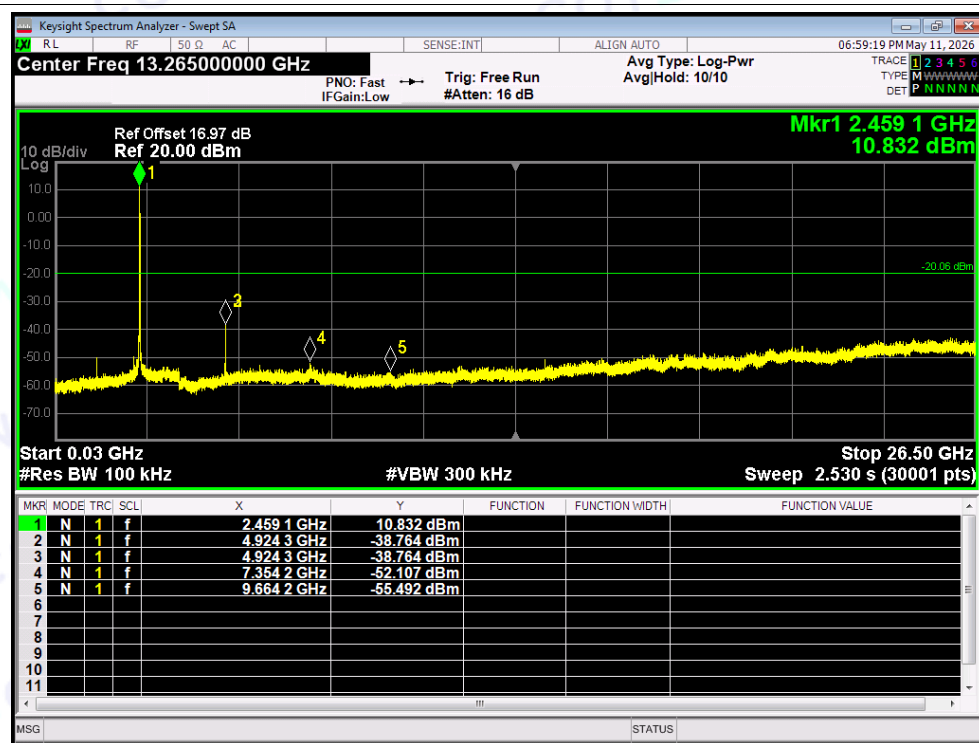
Tx. Spurious NVNT b 2437MHz Ant1 Emission



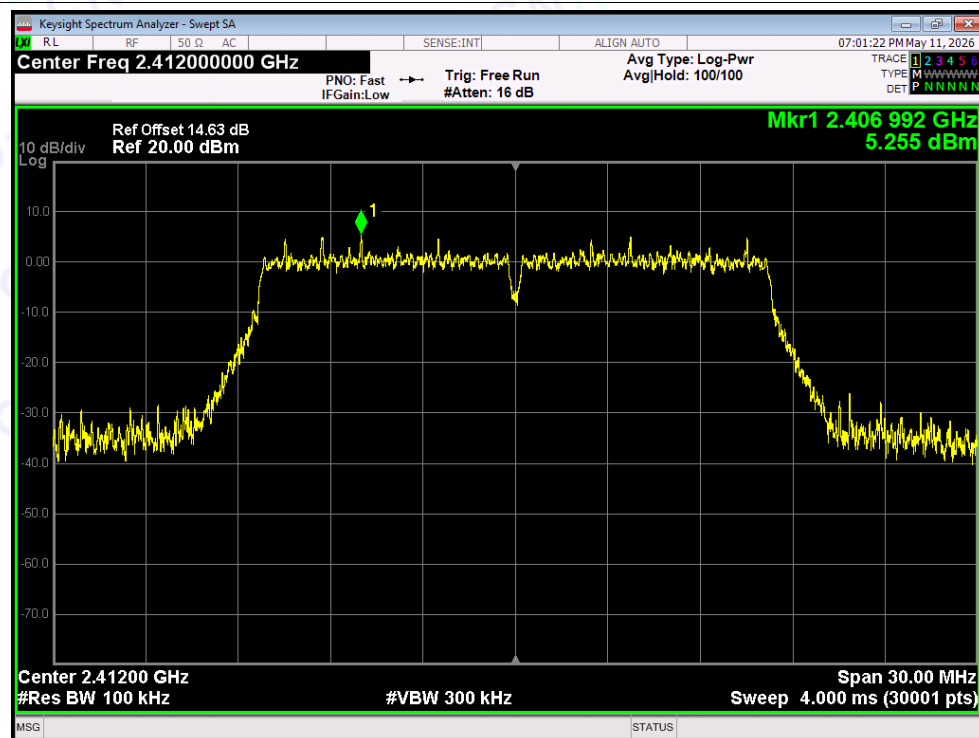
Tx. Spurious NVNT b 2462MHz Ant1 Ref



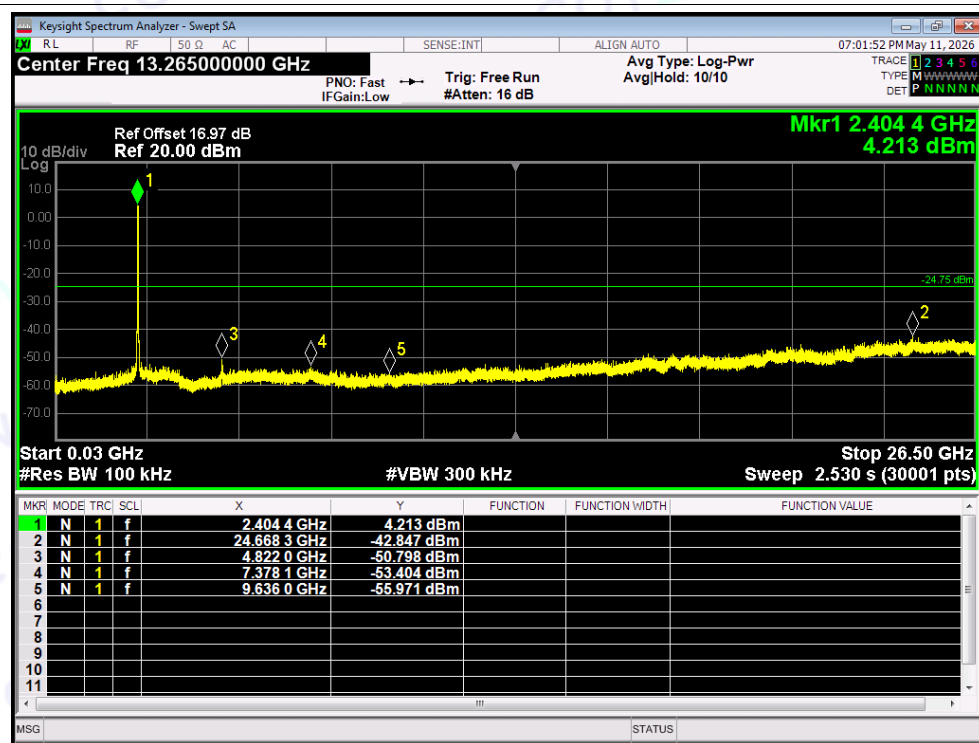
Tx. Spurious NVNT b 2462MHz Ant1 Emission



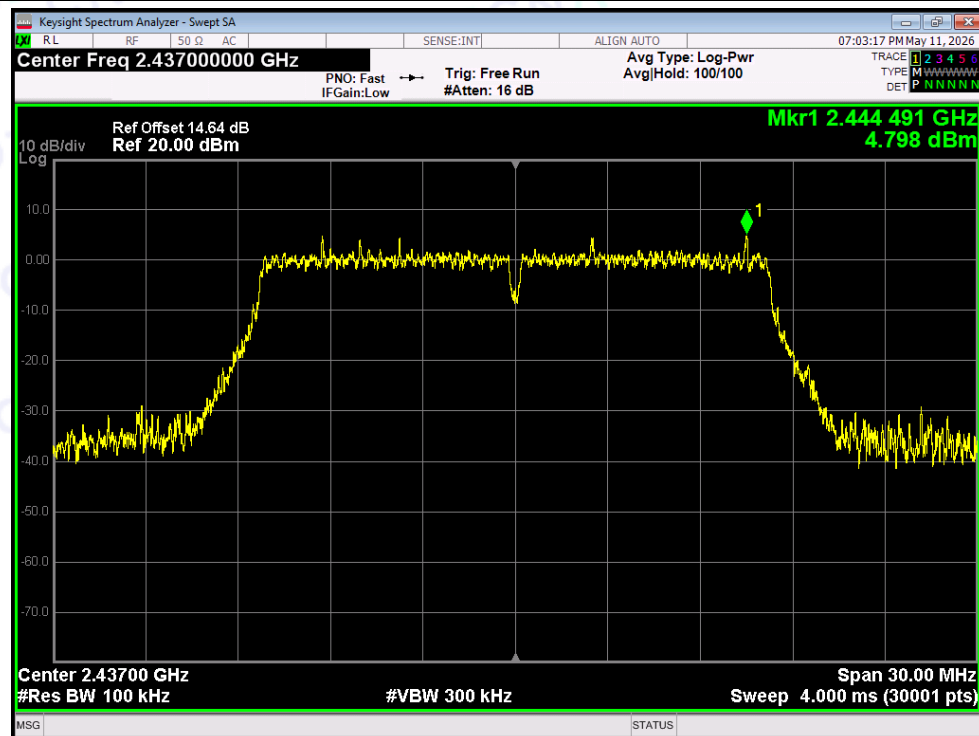
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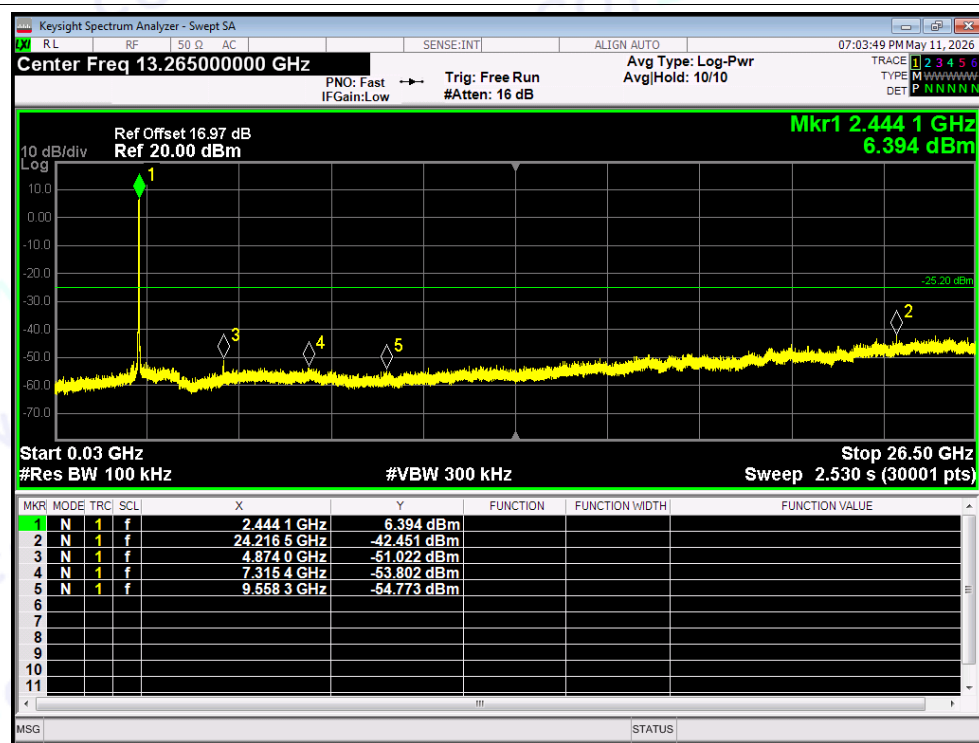
Tx. Spurious NVNT g 2412MHz Ant1 Emission



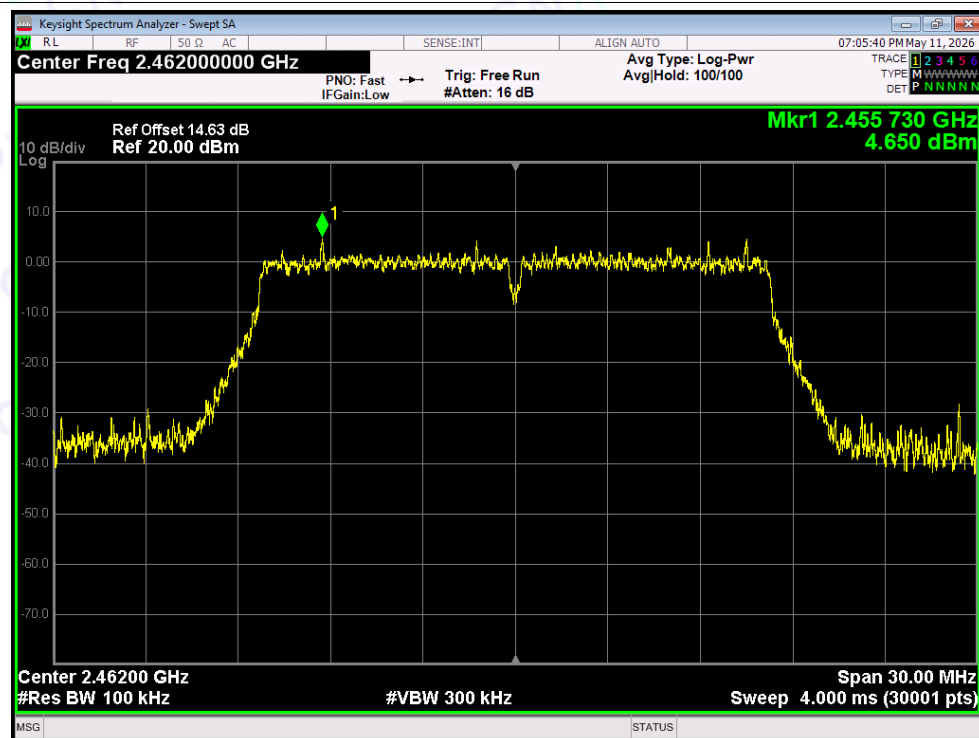
Tx. Spurious NVNT g 2437MHz Ant1 Ref



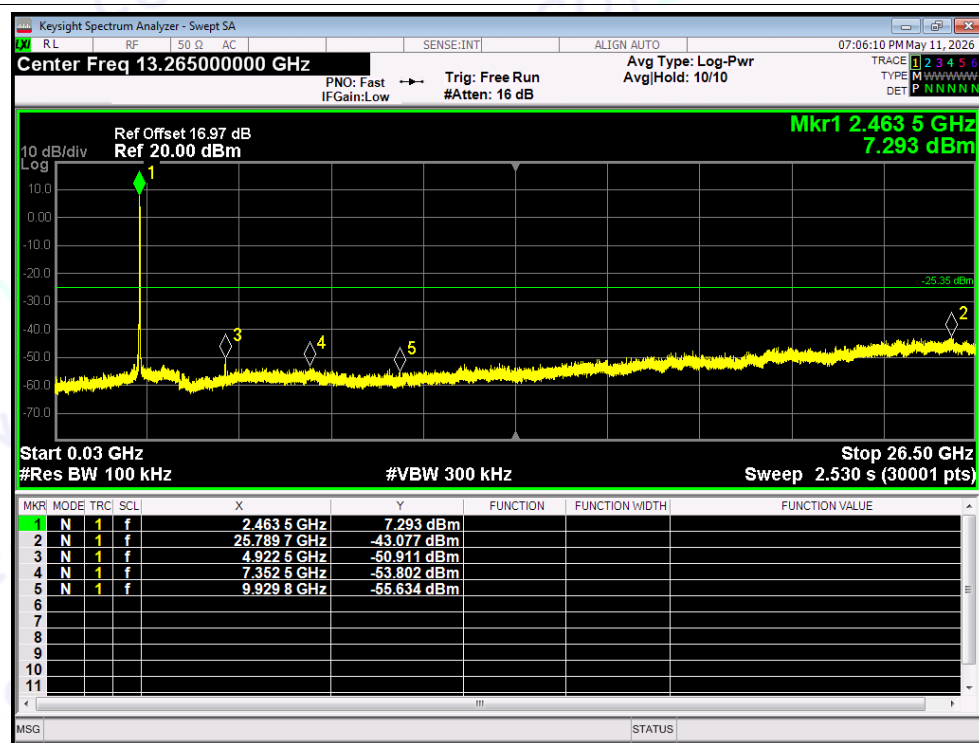
Tx. Spurious NVNT g 2437MHz Ant1 Emission



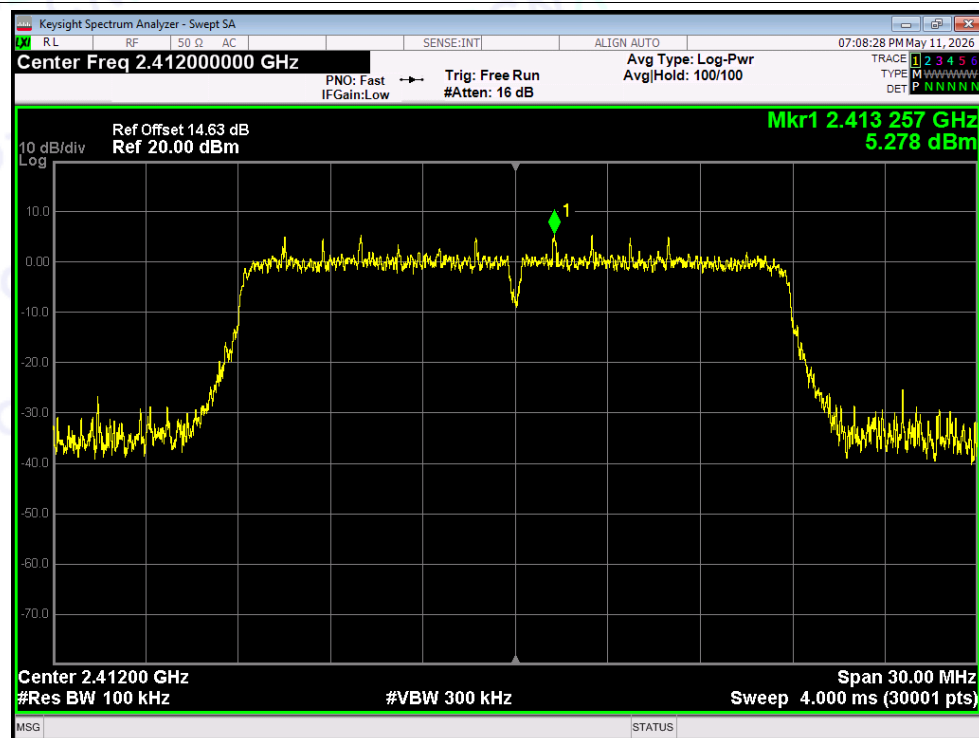
Tx. Spurious NVNT g 2462MHz Ant1 Ref



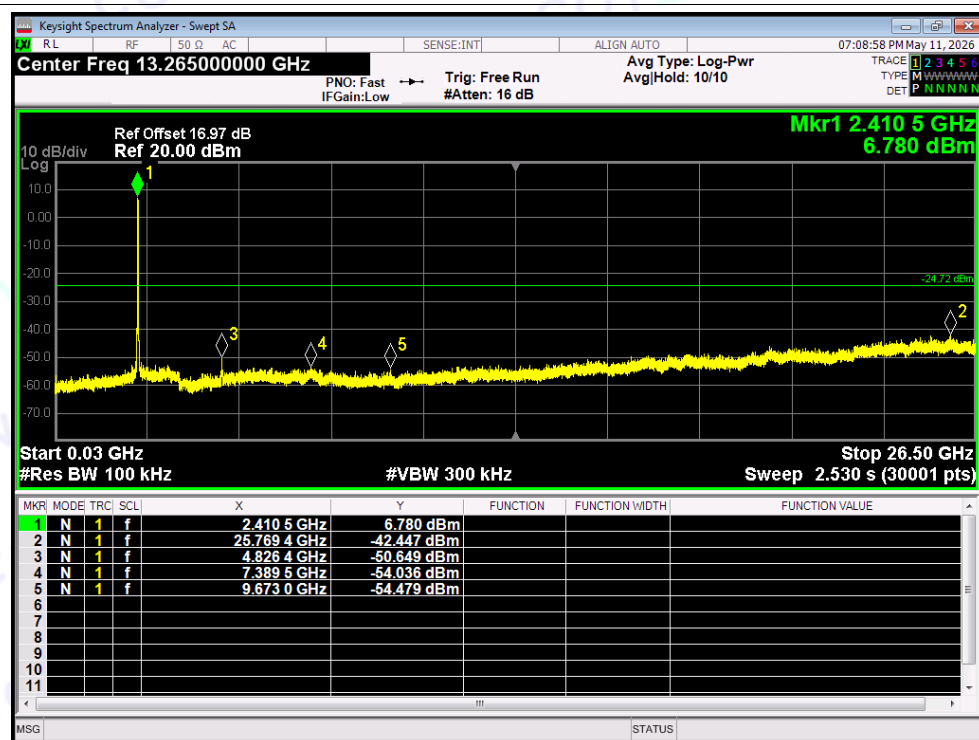
Tx. Spurious NVNT g 2462MHz Ant1 Emission



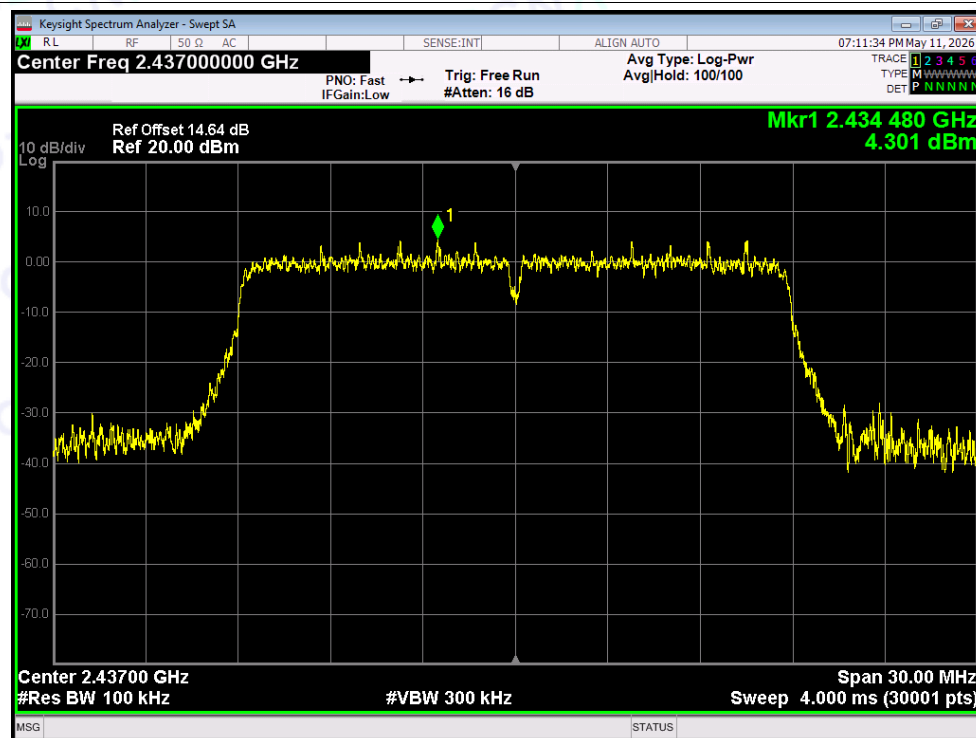
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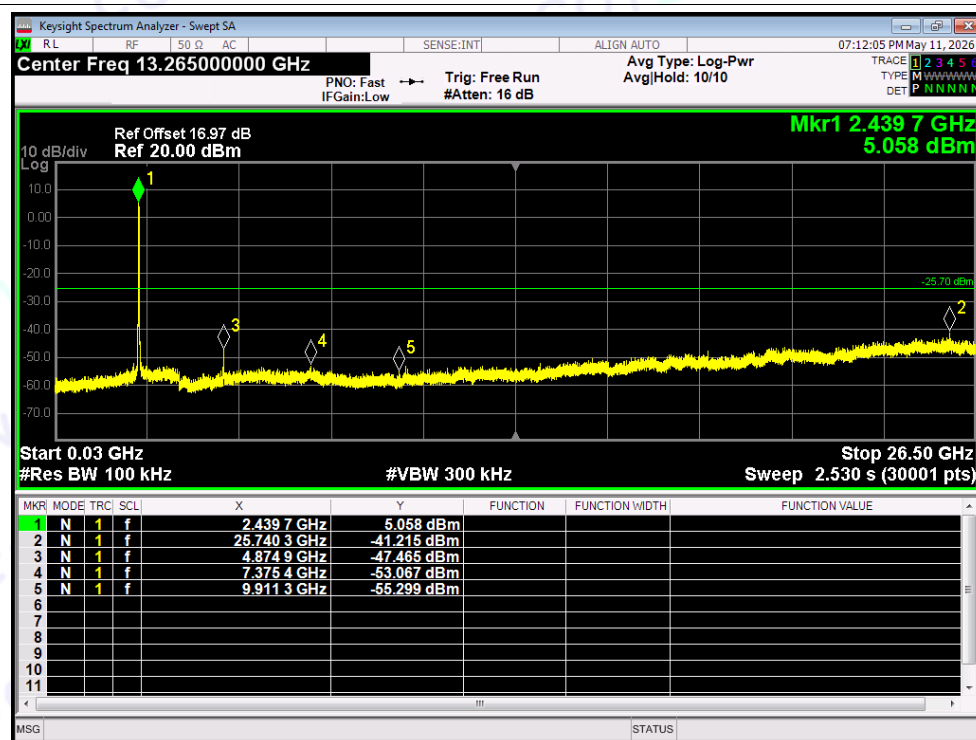
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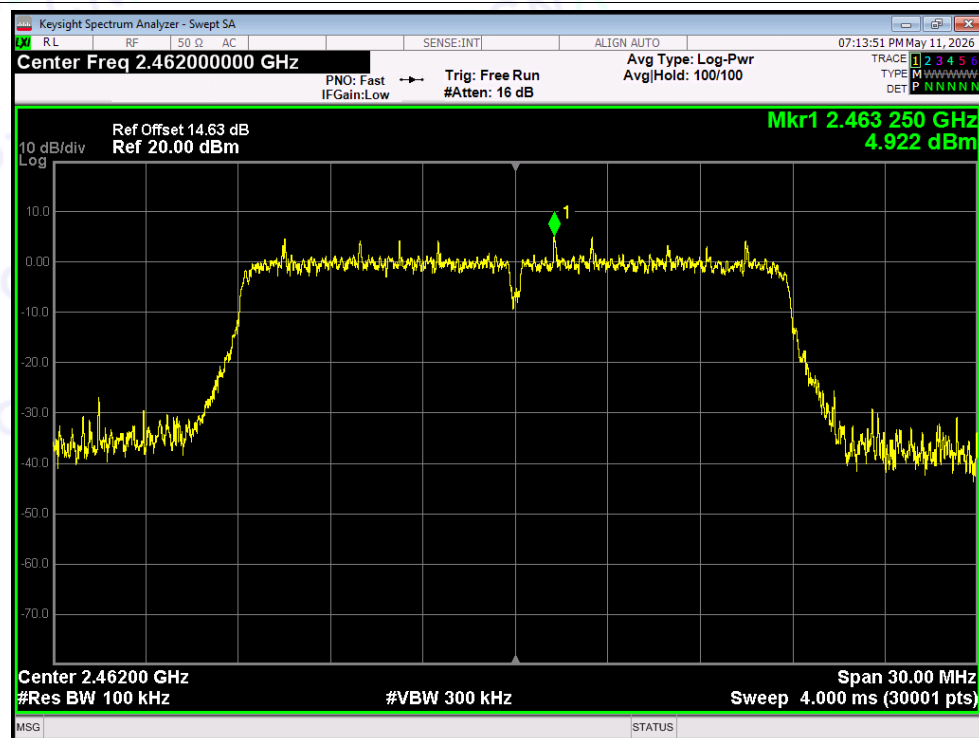
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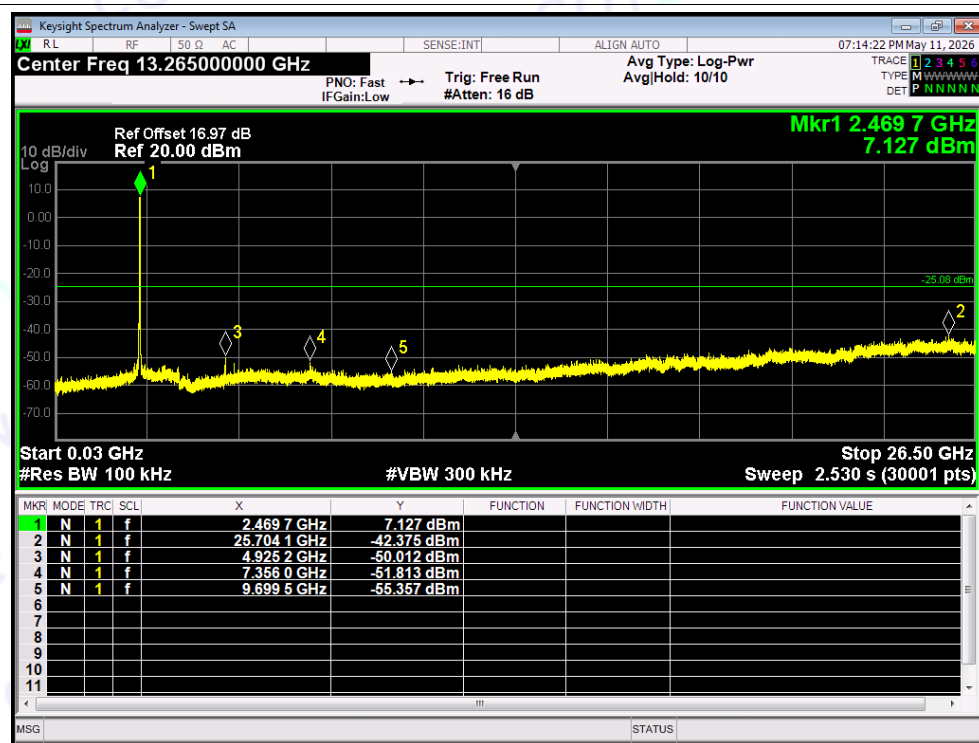
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



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



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



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