

RF Test Data for 2.4G WiFi (Conducted Measurements)

General Description of EUT	
Product Name:	7"core tablet
Test Model:	TBBLU36020962
Sample ID:	HC-C-202512-0001-01-01
Test Standard:	FCC Part 15.247 & RSS 247 Issue 4
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	47%
Test Voltage:	DC 3.85V
Test Engineer:	Lily Zhang
Note: For a more detailed features description, please refer to the report TBR-C-202512-0001-82 The report only show the worst case data.	

Contents

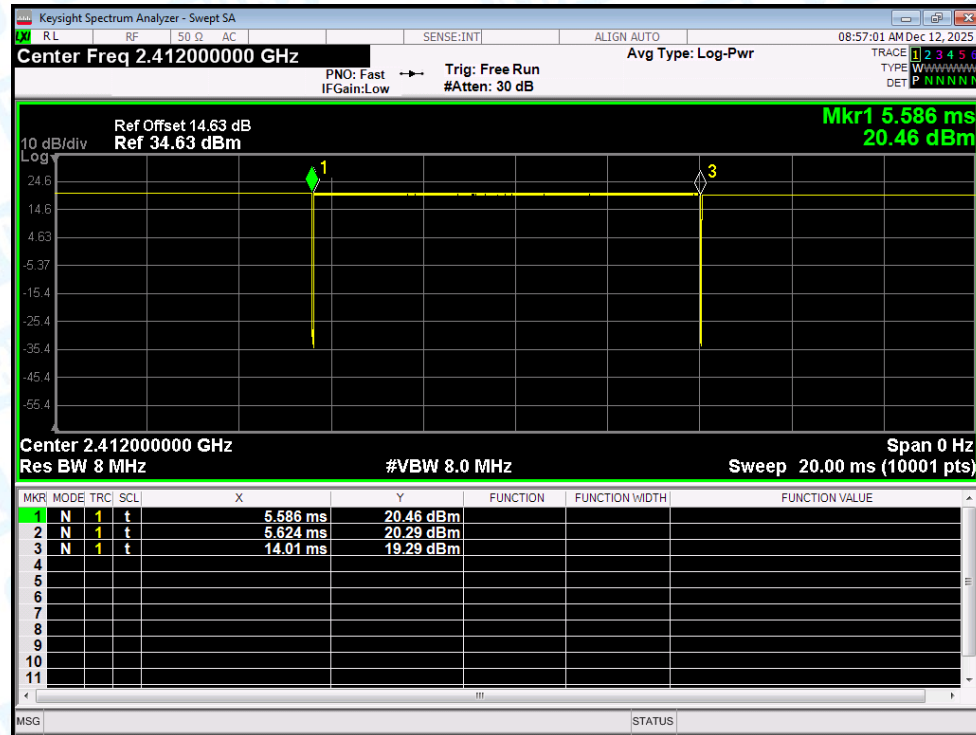
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1.Duty Cycle

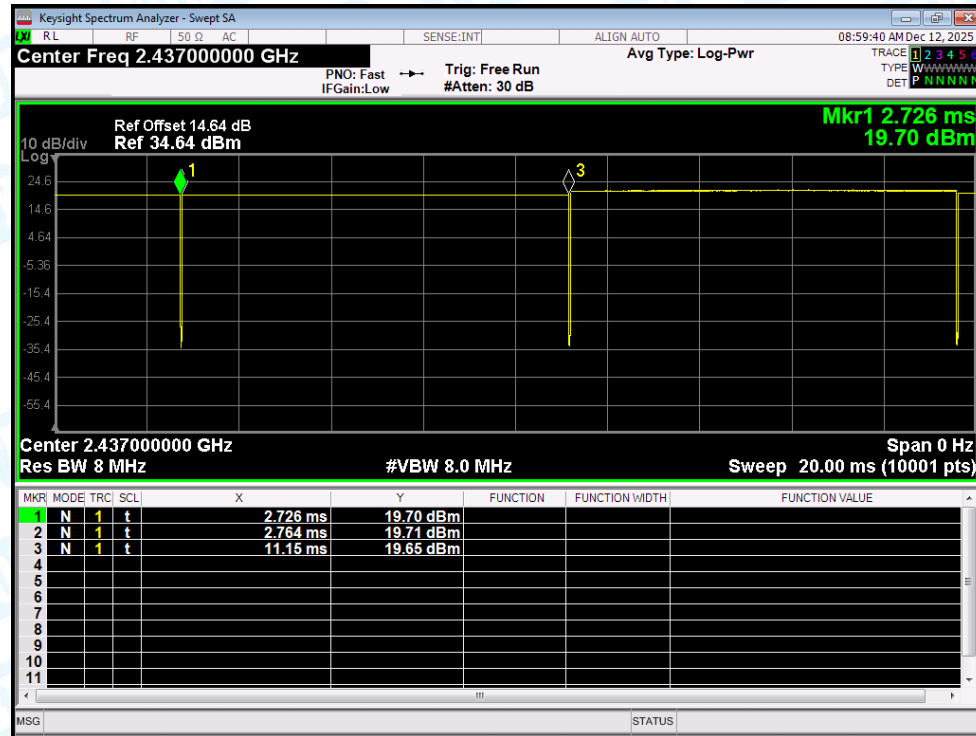
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.55	0.02	0.12
NVNT	b	2437	Ant1	99.55	0.02	0.12
NVNT	b	2462	Ant1	99.55	0.02	0.12
NVNT	g	2412	Ant1	96.94	0.13	0.72
NVNT	g	2437	Ant1	96.94	0.13	0.72
NVNT	g	2462	Ant1	96.94	0.13	0.72
NVNT	n(HT20)	2412	Ant1	96.73	0.14	0.77
NVNT	n(HT20)	2437	Ant1	96.73	0.14	0.77
NVNT	n(HT20)	2462	Ant1	96.73	0.14	0.77
NVNT	n(HT40)	2422	Ant1	93.64	0.29	1.54
NVNT	n(HT40)	2437	Ant1	93.64	0.29	1.54
NVNT	n(HT40)	2452	Ant1	93.64	0.29	1.54

Test Graphs

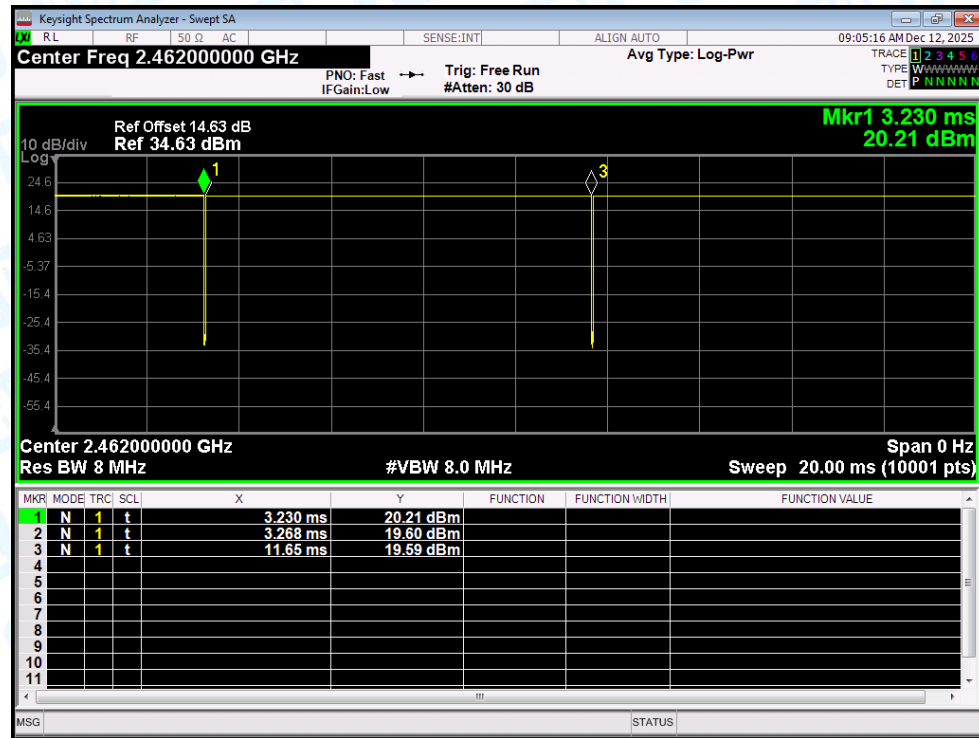
Duty Cycle NVNT b 2412MHz Ant1



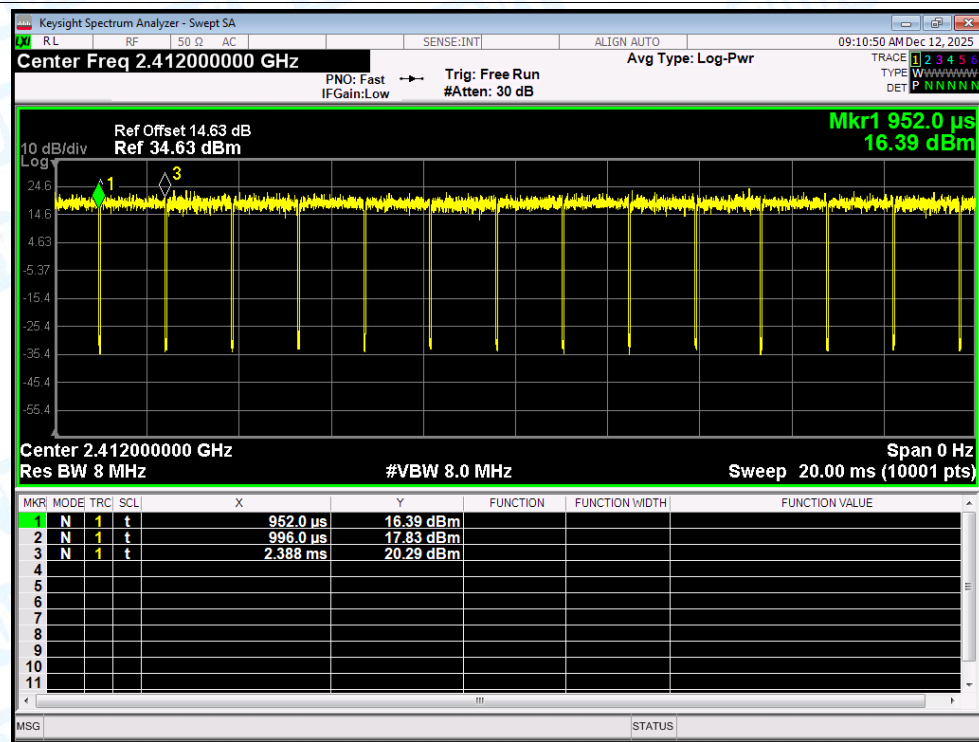
Duty Cycle NVNT b 2437MHz Ant1



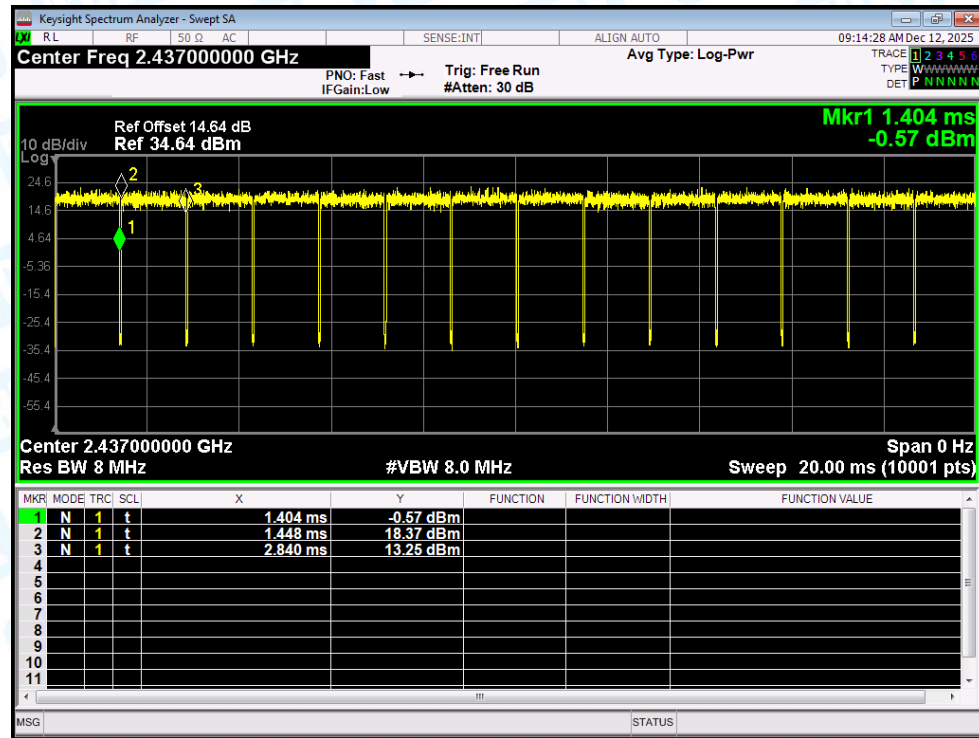
Duty Cycle NVNT b 2462MHz Ant1



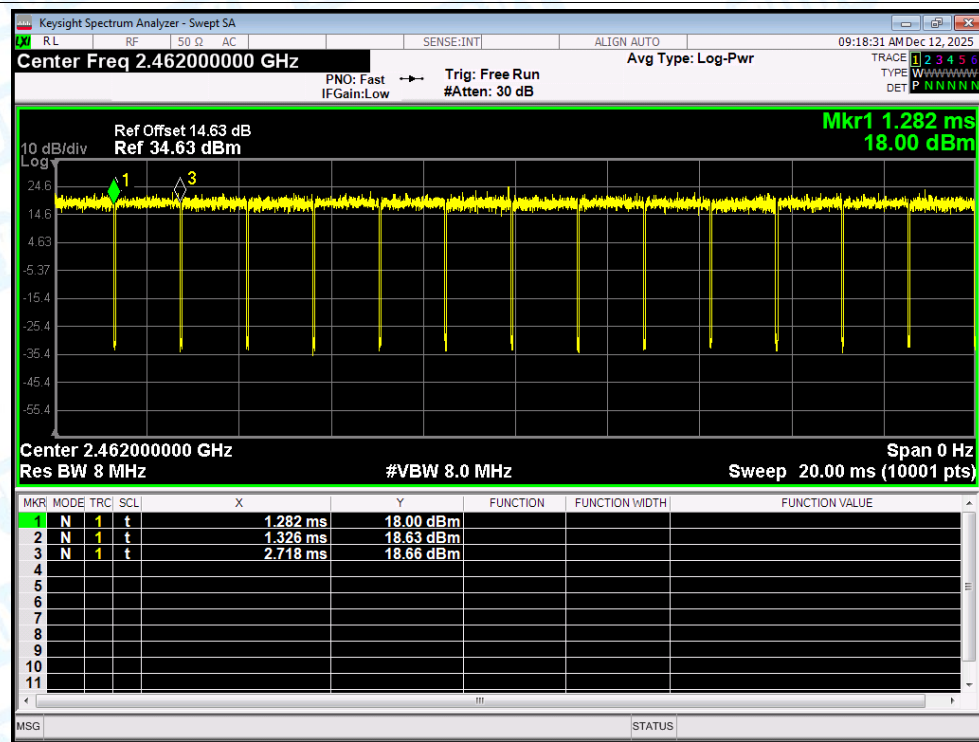
Duty Cycle NVNT g 2412MHz Ant1



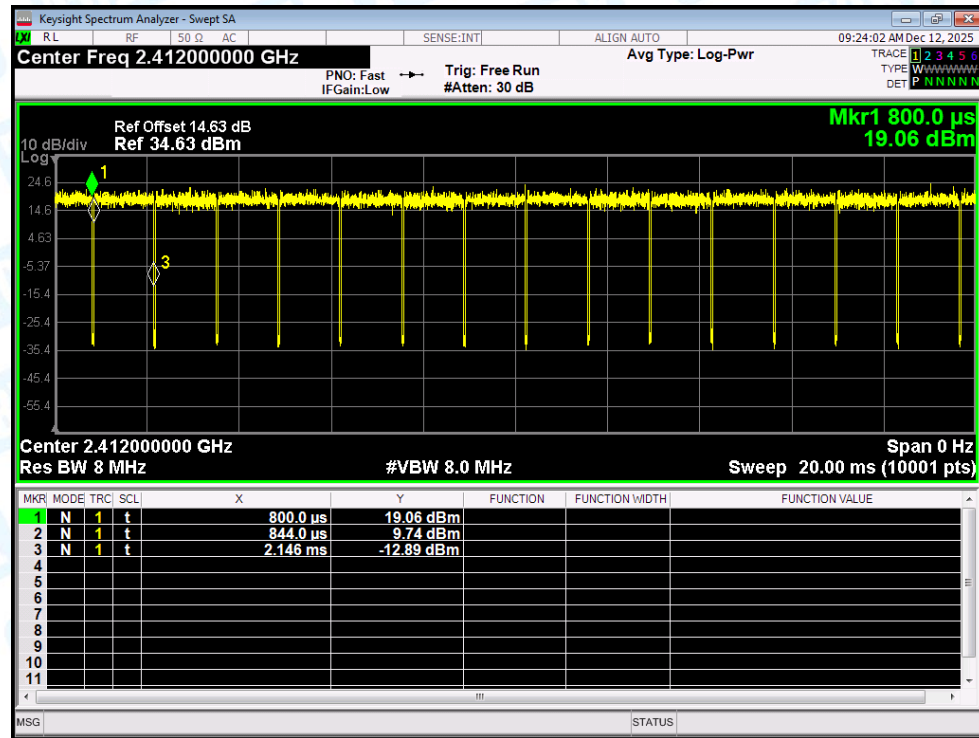
Duty Cycle NVNT g 2437MHz Ant1



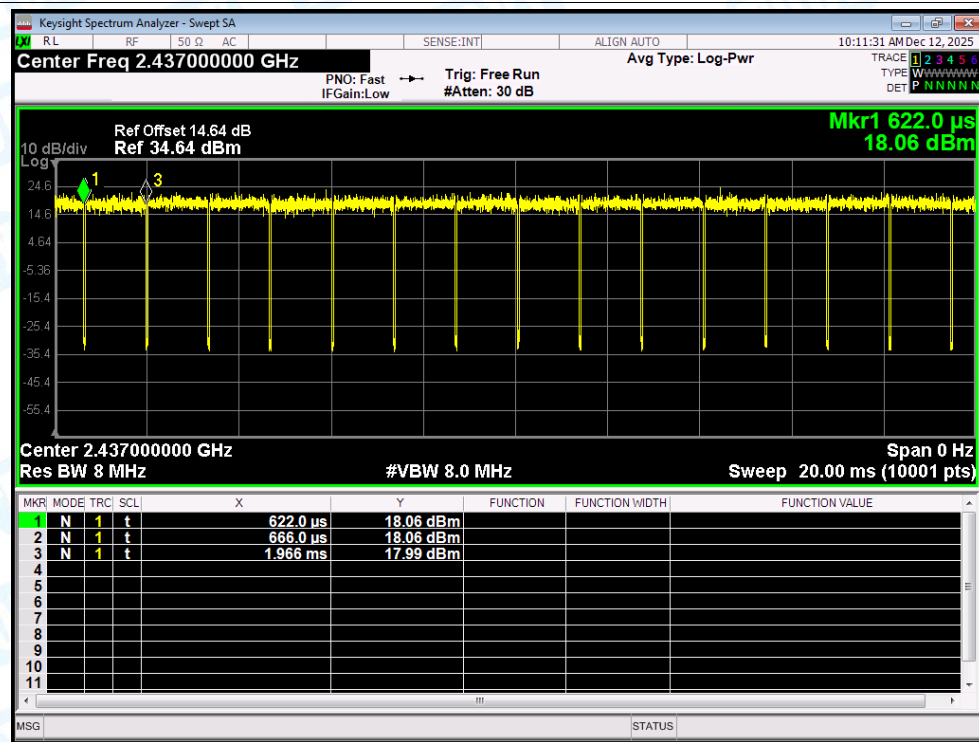
Duty Cycle NVNT g 2462MHz Ant1



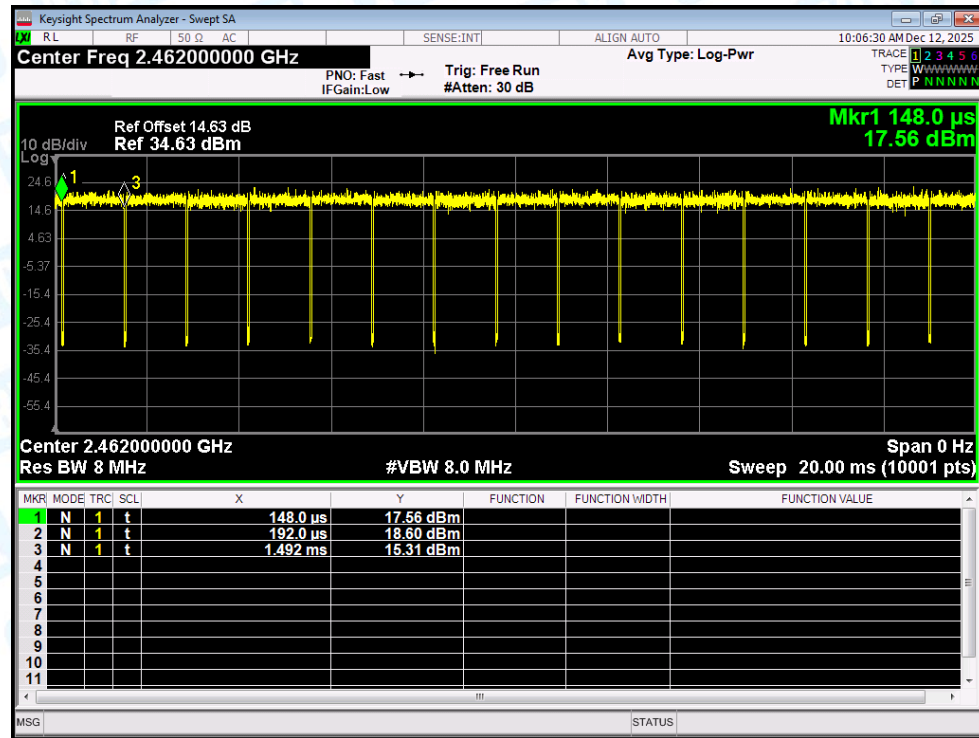
Duty Cycle NVNT n(HT20) 2412MHz Ant1



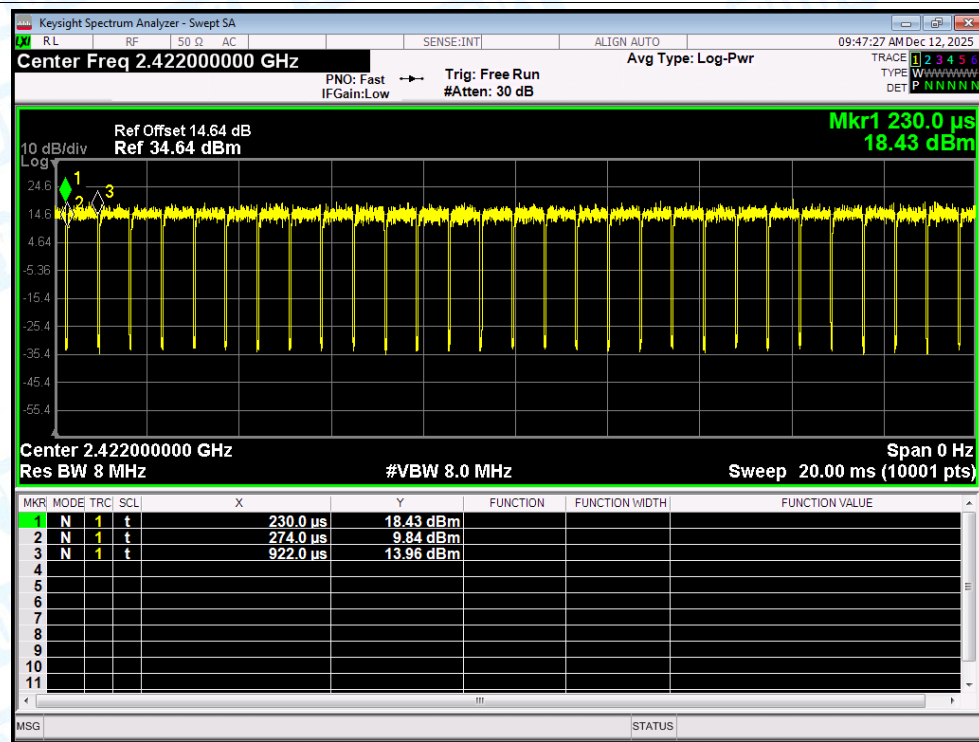
Duty Cycle NVNT n(HT20) 2437MHz Ant1



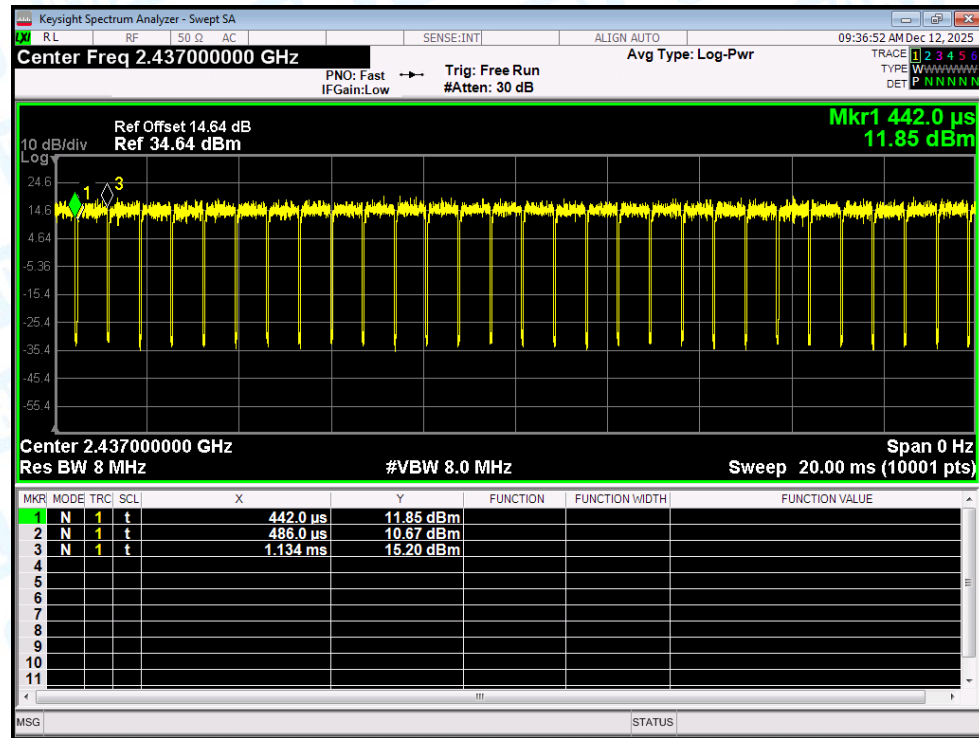
Duty Cycle NVNT n(HT20) 2462MHz Ant1



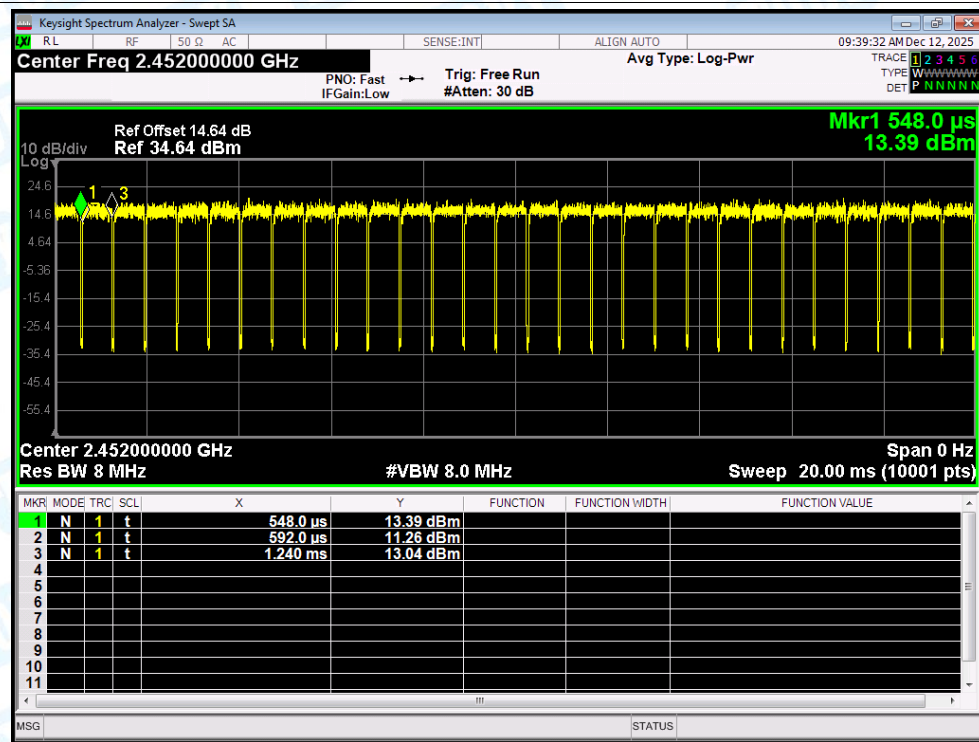
Duty Cycle NVNT n(HT40) 2422MHz Ant1



Duty Cycle NVNT n(HT40) 2437MHz Ant1



Duty Cycle NVNT n(HT40) 2452MHz Ant1



2.Maximum Conducted AVG Power&EIRP

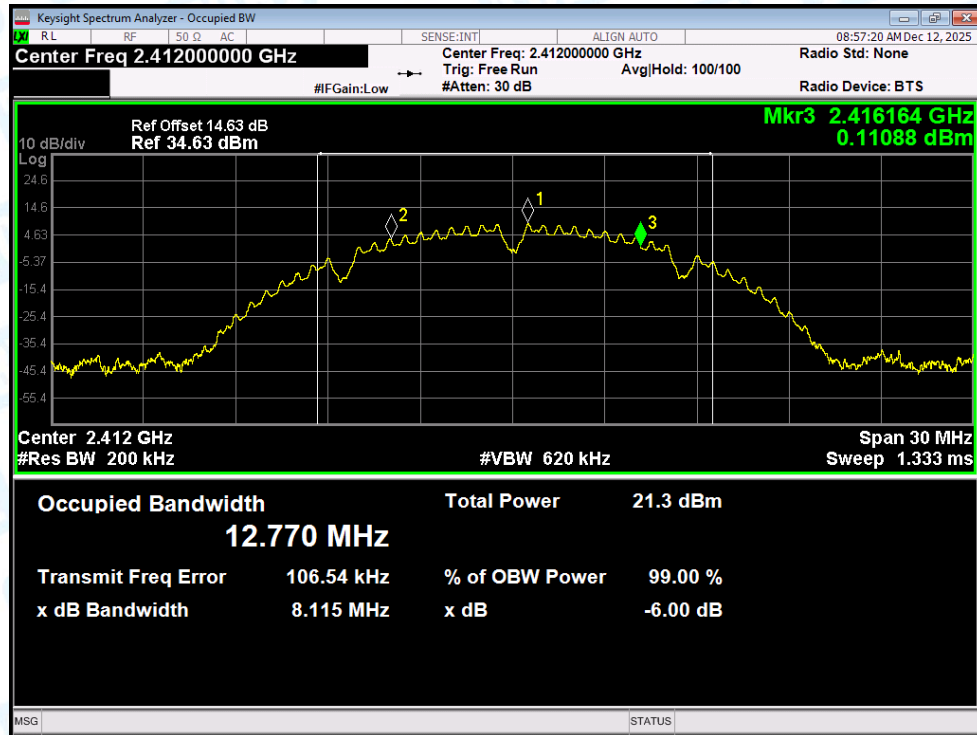
Condition	Mode	Frequency (MHz)	Ant.	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.58	0.02	16.6	30	4.7	21.30	36	Pass
NVNT	b	2437	Ant1	16.63	0.02	16.65	30	4.7	21.35	36	Pass
NVNT	b	2462	Ant1	16.69	0.02	16.71	30	4.7	21.41	36	Pass
NVNT	g	2412	Ant1	16.09	0.13	16.22	30	4.7	20.92	36	Pass
NVNT	g	2437	Ant1	16.11	0.13	16.24	30	4.7	20.94	36	Pass
NVNT	g	2462	Ant1	16.13	0.13	16.26	30	4.7	20.96	36	Pass
NVNT	n(HT20)	2412	Ant1	16.15	0.14	16.29	30	4.7	20.99	36	Pass
NVNT	n(HT20)	2437	Ant1	16.05	0.14	16.19	30	4.7	20.89	36	Pass
NVNT	n(HT20)	2462	Ant1	16.05	0.13	16.18	30	4.7	20.88	36	Pass
NVNT	n(HT40)	2422	Ant1	15.03	0.29	15.32	30	4.7	20.02	36	Pass
NVNT	n(HT40)	2437	Ant1	15.17	0.29	15.46	30	4.7	20.16	36	Pass
NVNT	n(HT40)	2452	Ant1	14.94	0.29	15.23	30	4.7	19.93	36	Pass

3.-6dB Bandwidth

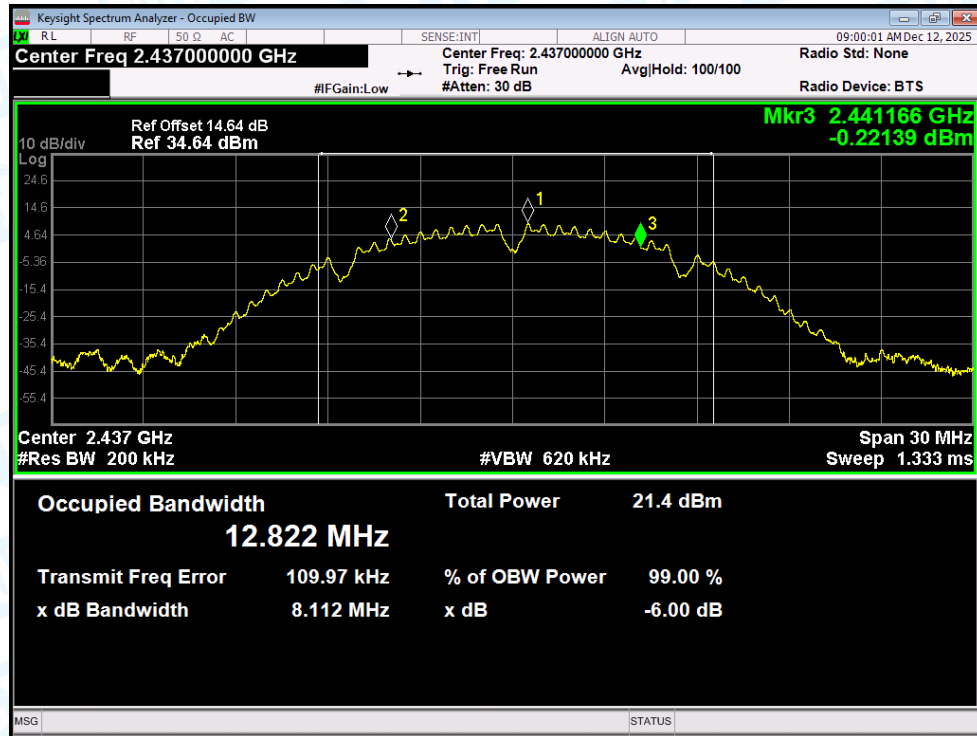
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.12	0.5	Pass
NVNT	b	2437	Ant1	8.11	0.5	Pass
NVNT	b	2462	Ant1	8.13	0.5	Pass
NVNT	g	2412	Ant1	15.87	0.5	Pass
NVNT	g	2437	Ant1	15.84	0.5	Pass
NVNT	g	2462	Ant1	15.96	0.5	Pass
NVNT	n(HT20)	2412	Ant1	16.5	0.5	Pass
NVNT	n(HT20)	2437	Ant1	16.57	0.5	Pass
NVNT	n(HT20)	2462	Ant1	17	0.5	Pass
NVNT	n(HT40)	2422	Ant1	35.22	0.5	Pass
NVNT	n(HT40)	2437	Ant1	33.82	0.5	Pass
NVNT	n(HT40)	2452	Ant1	34.77	0.5	Pass

Test Graphs

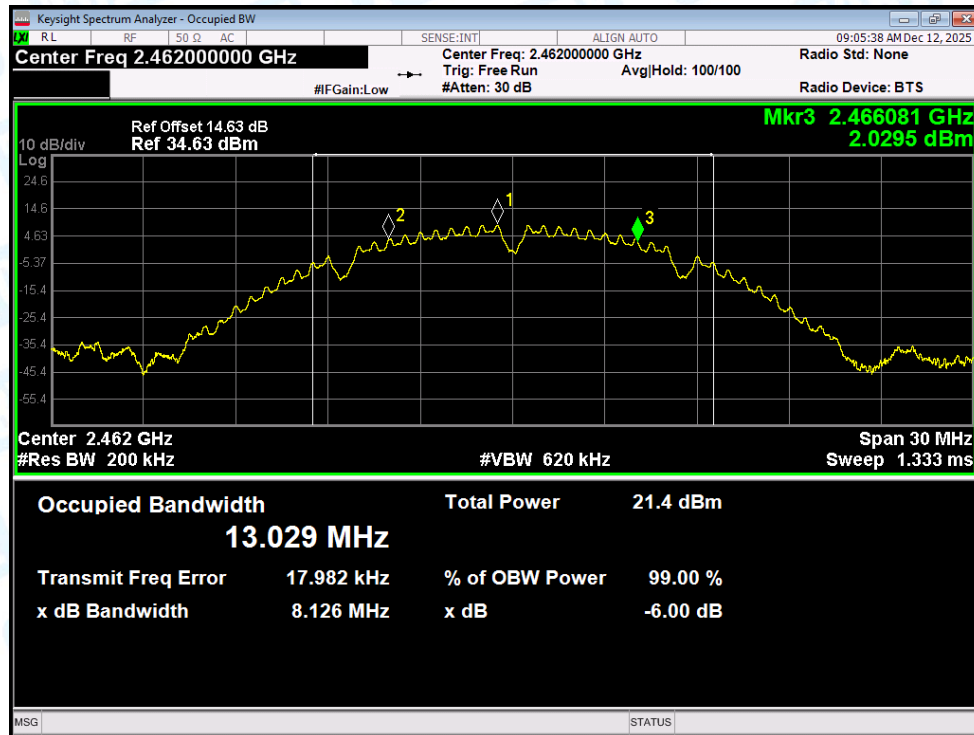
-6dB Bandwidth NVNT b 2412MHz Ant1



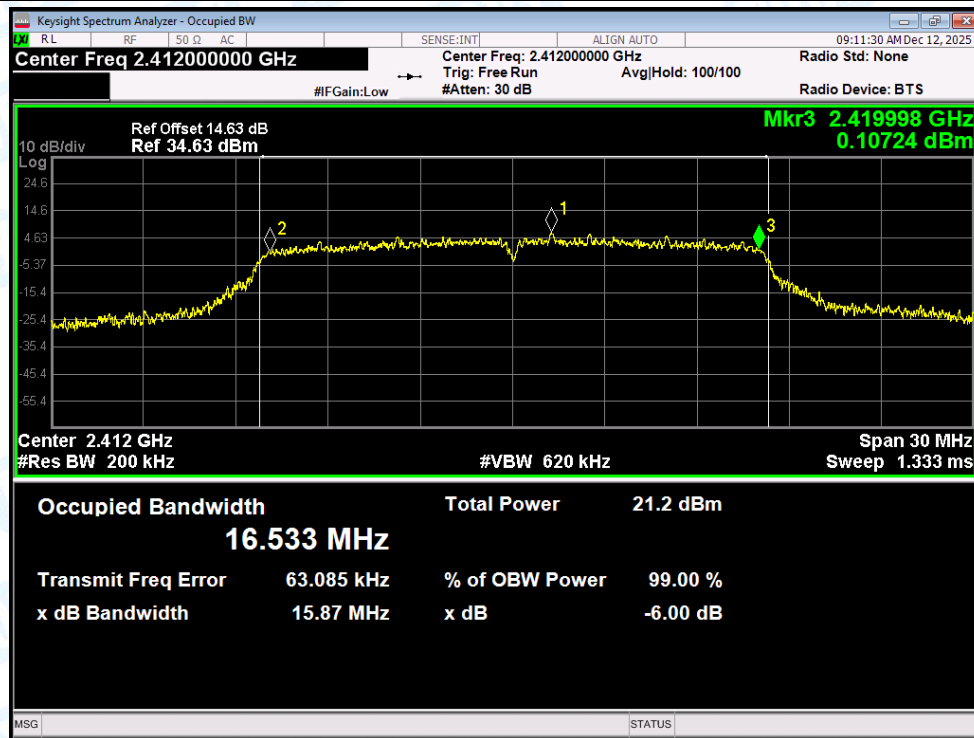
-6dB Bandwidth NVNT b 2437MHz Ant1



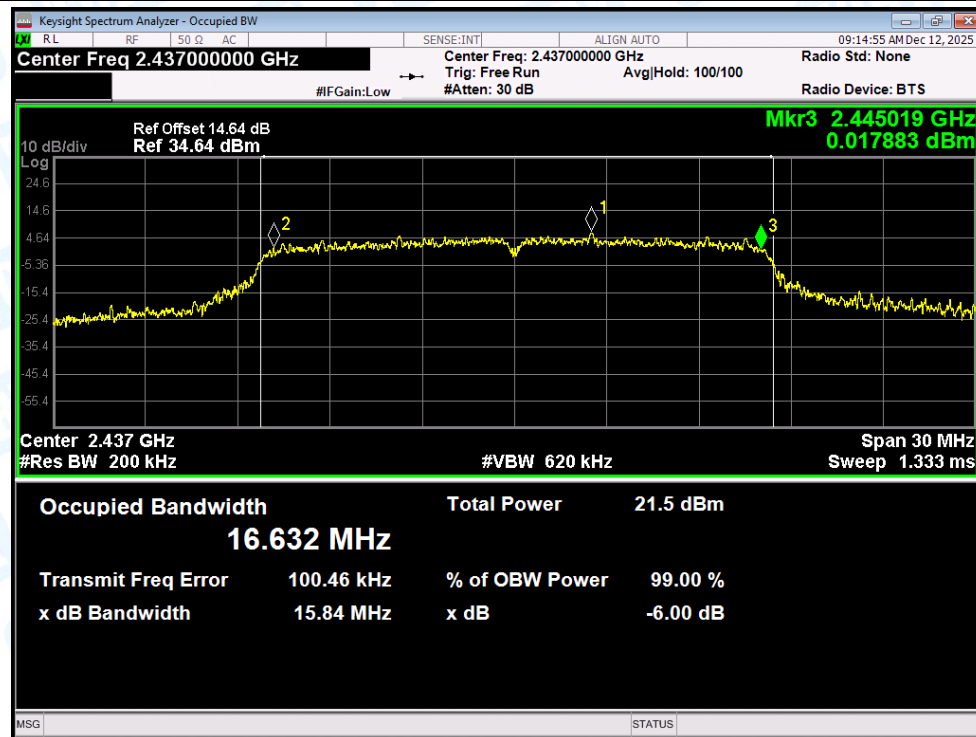
-6dB Bandwidth NVNT b 2462MHz Ant1



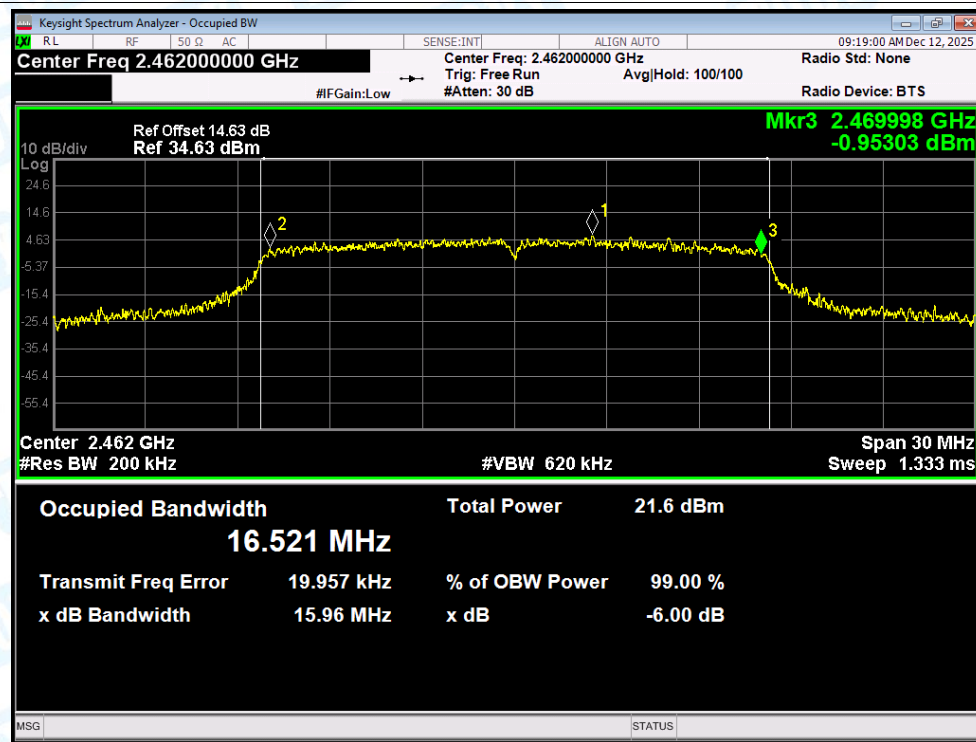
-6dB Bandwidth NVNT g 2412MHz Ant1



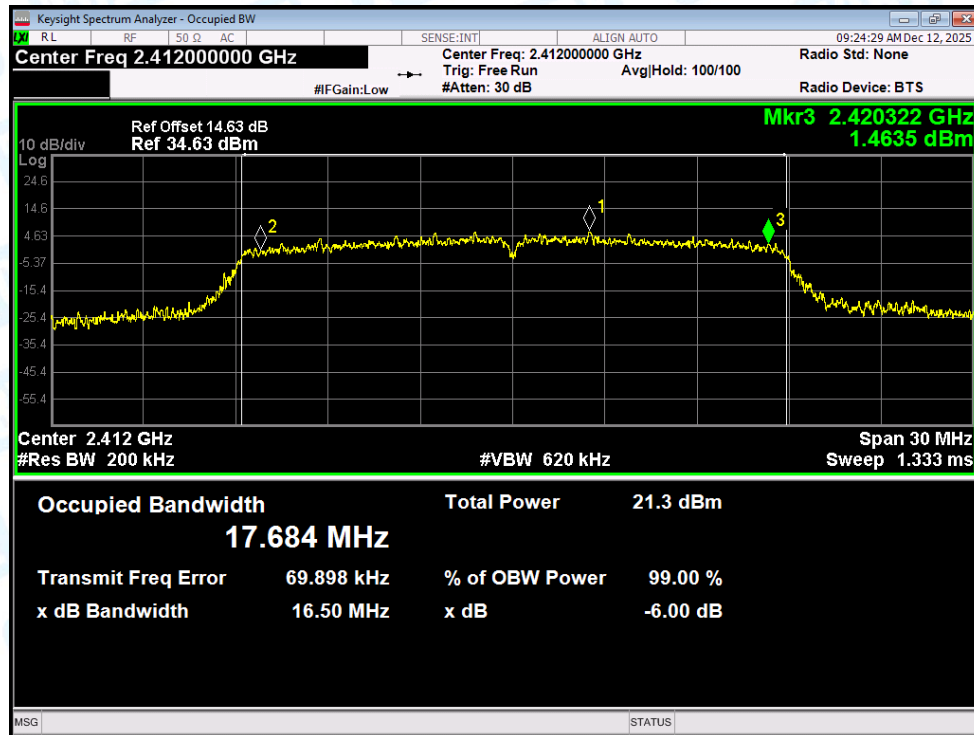
-6dB Bandwidth NVNT g 2437MHz Ant1



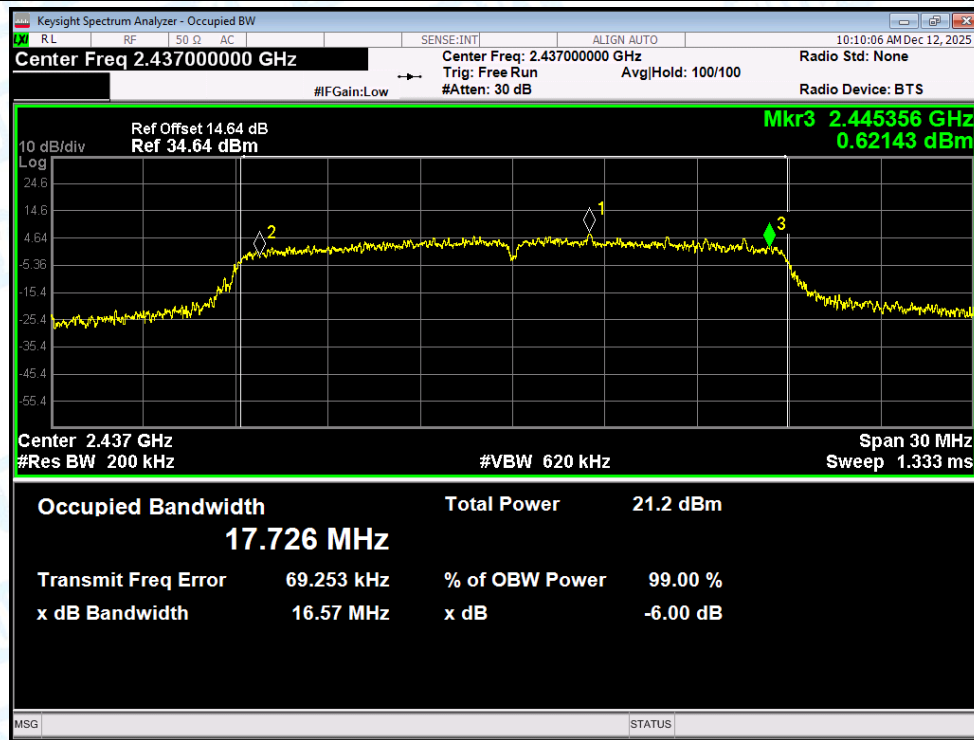
-6dB Bandwidth NVNT g 2462MHz Ant1



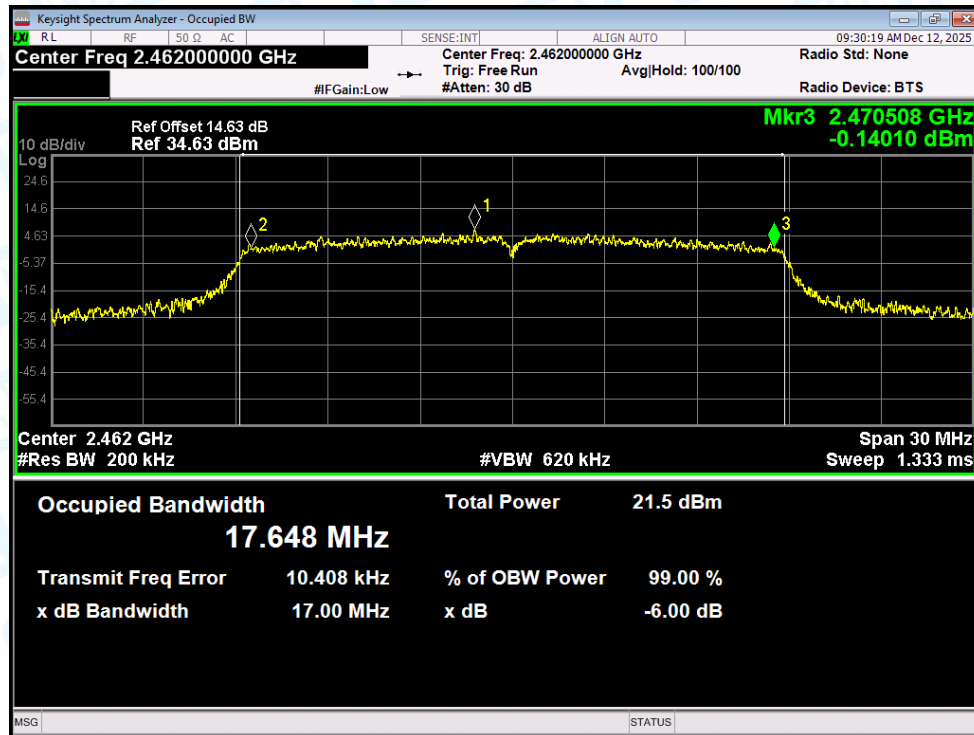
-6dB Bandwidth NVNT n(HT20) 2412MHz Ant1



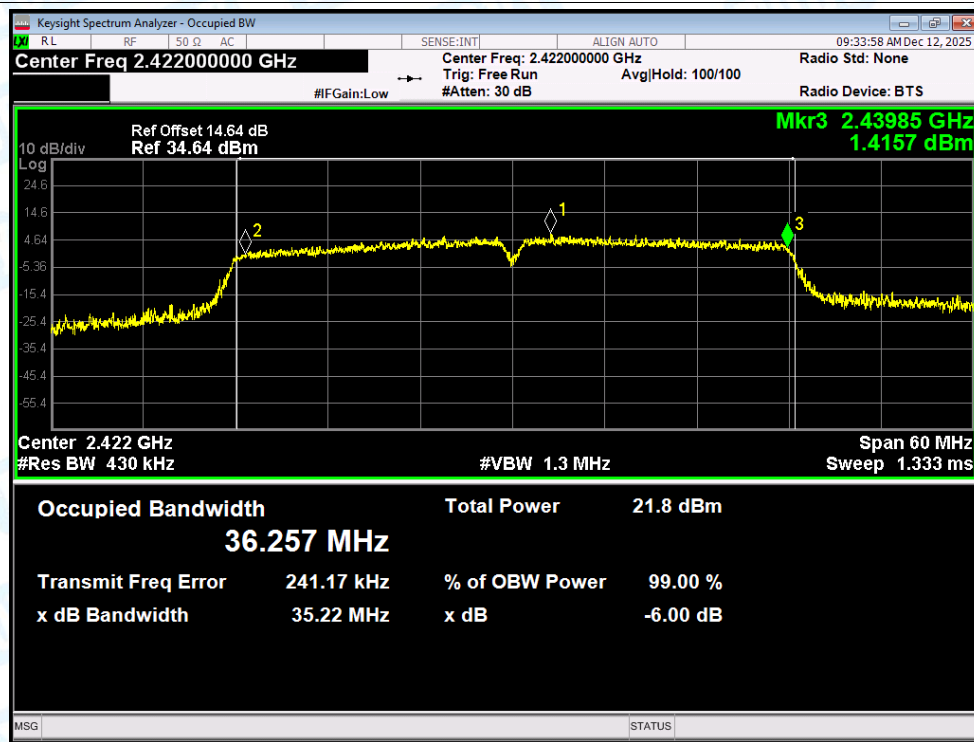
-6dB Bandwidth NVNT n(HT20) 2437MHz Ant1

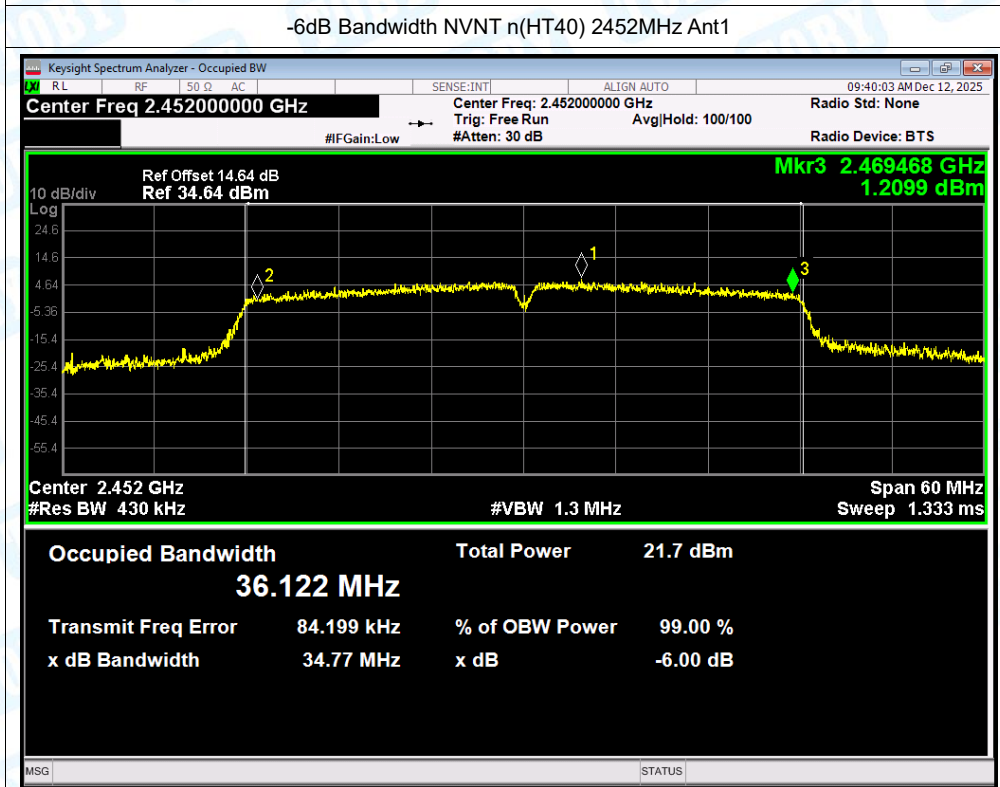
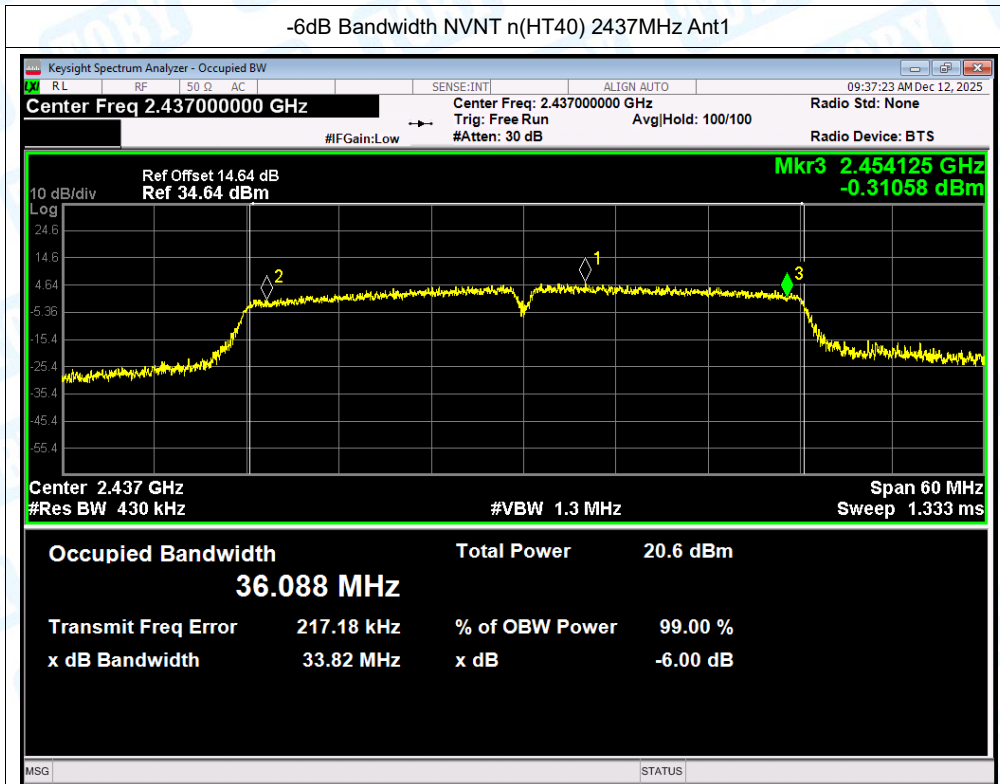


-6dB Bandwidth NVNT n(HT20) 2462MHz Ant1



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



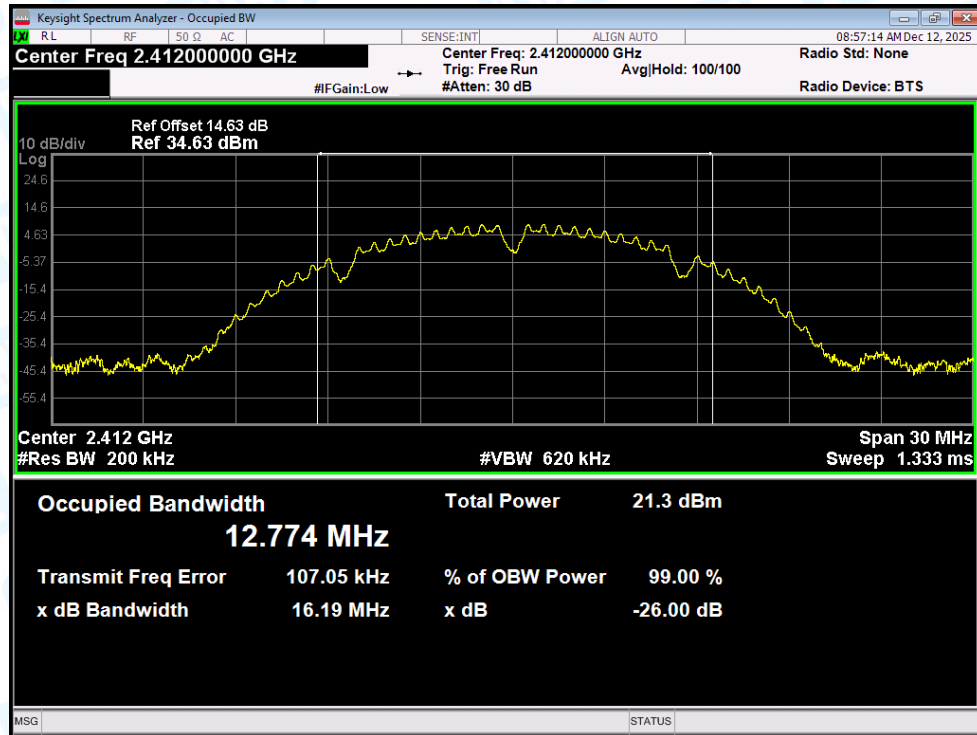


4.Occupied Channel Bandwidth

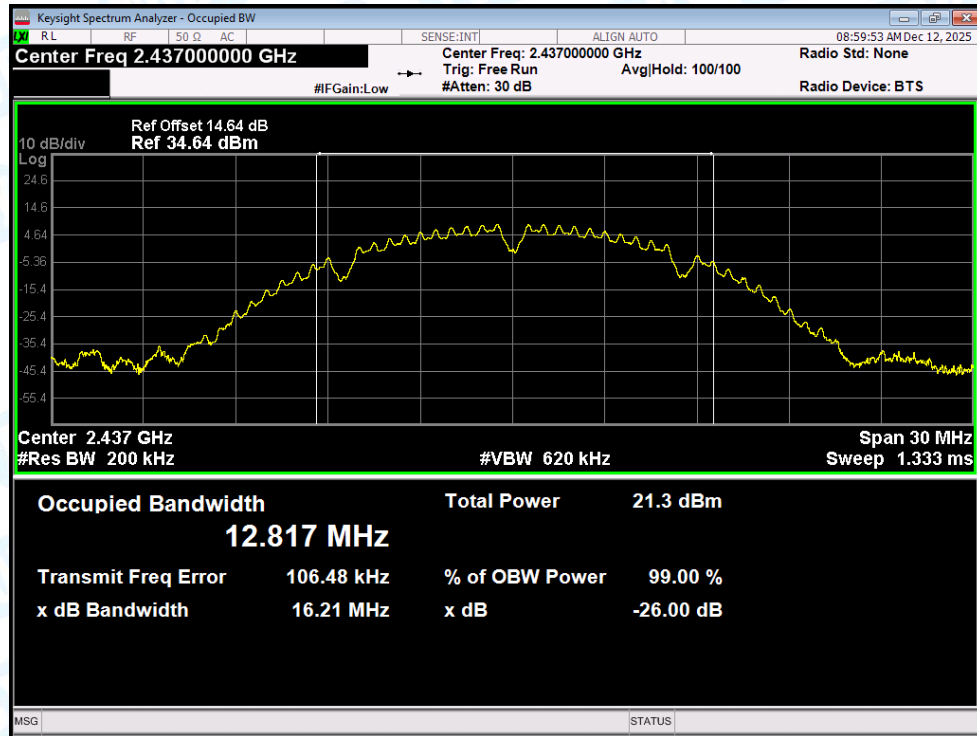
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.774
NVNT	b	2437	Ant1	12.817
NVNT	b	2462	Ant1	13.027
NVNT	g	2412	Ant1	16.555
NVNT	g	2437	Ant1	16.641
NVNT	g	2462	Ant1	16.593
NVNT	n(HT20)	2412	Ant1	17.666
NVNT	n(HT20)	2437	Ant1	17.729
NVNT	n(HT20)	2462	Ant1	17.654
NVNT	n(HT40)	2422	Ant1	36.221
NVNT	n(HT40)	2437	Ant1	36.164
NVNT	n(HT40)	2452	Ant1	36.103

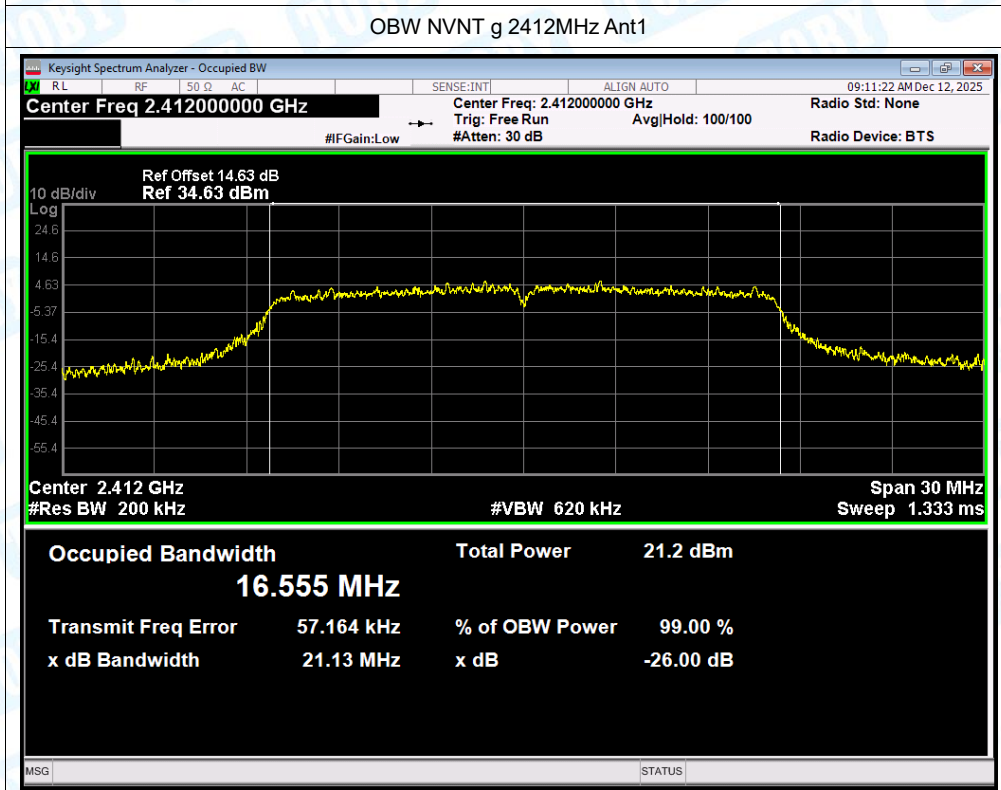
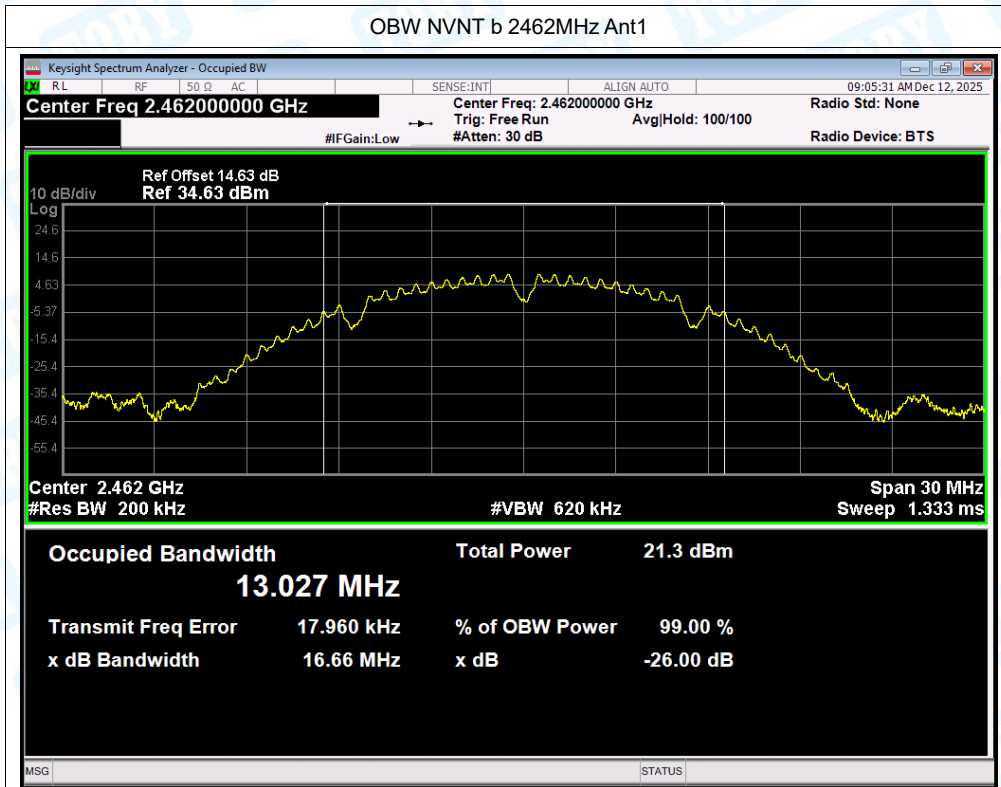
Test Graphs

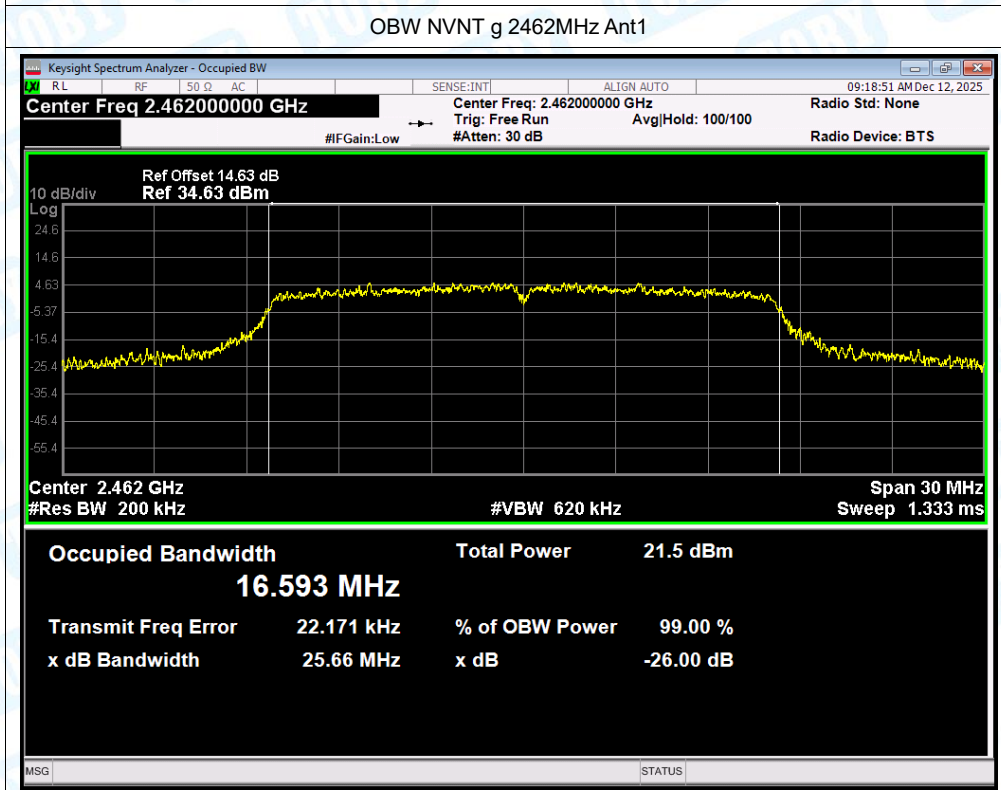
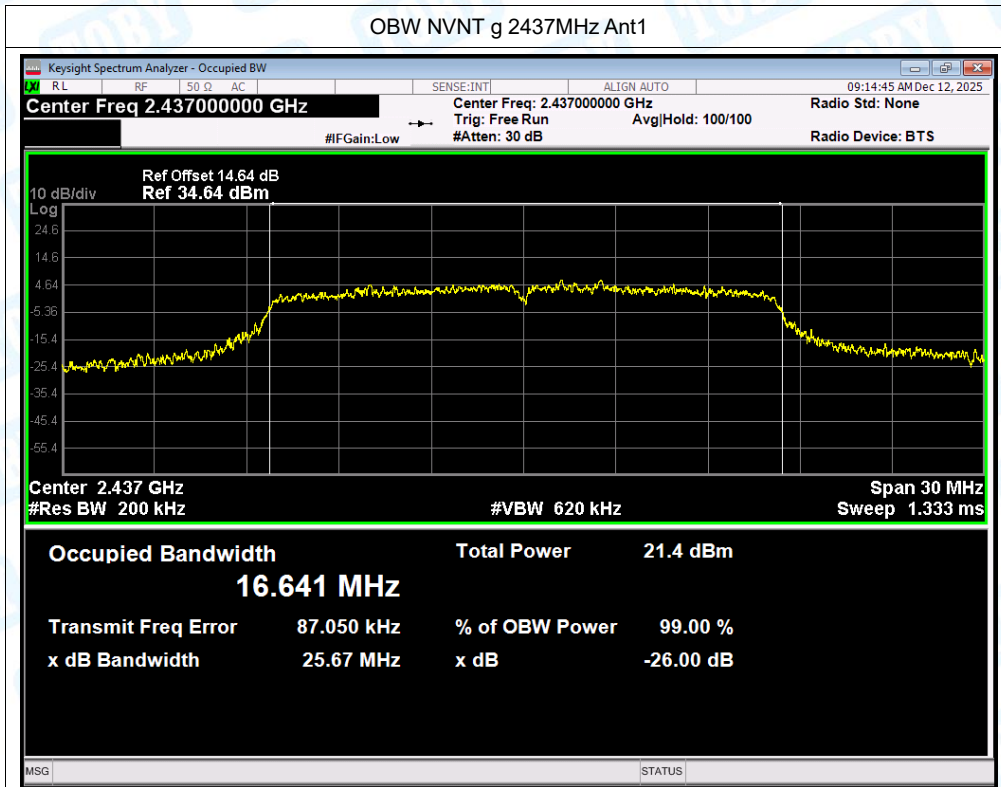
OBW NVNT b 2412MHz Ant1

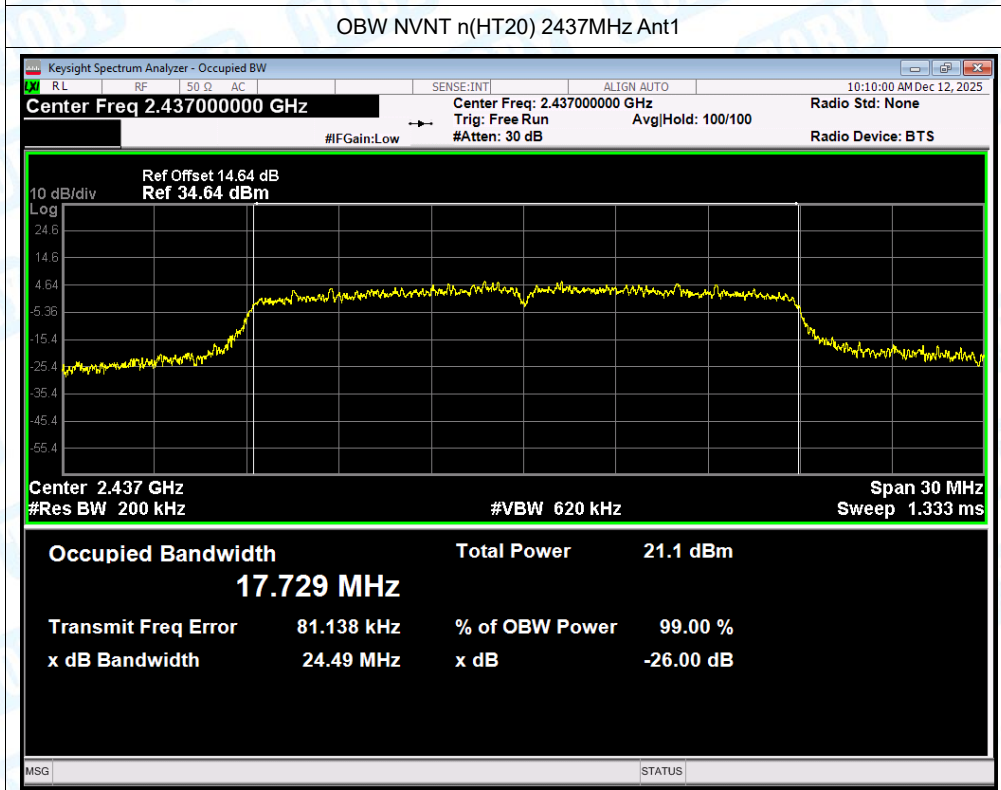
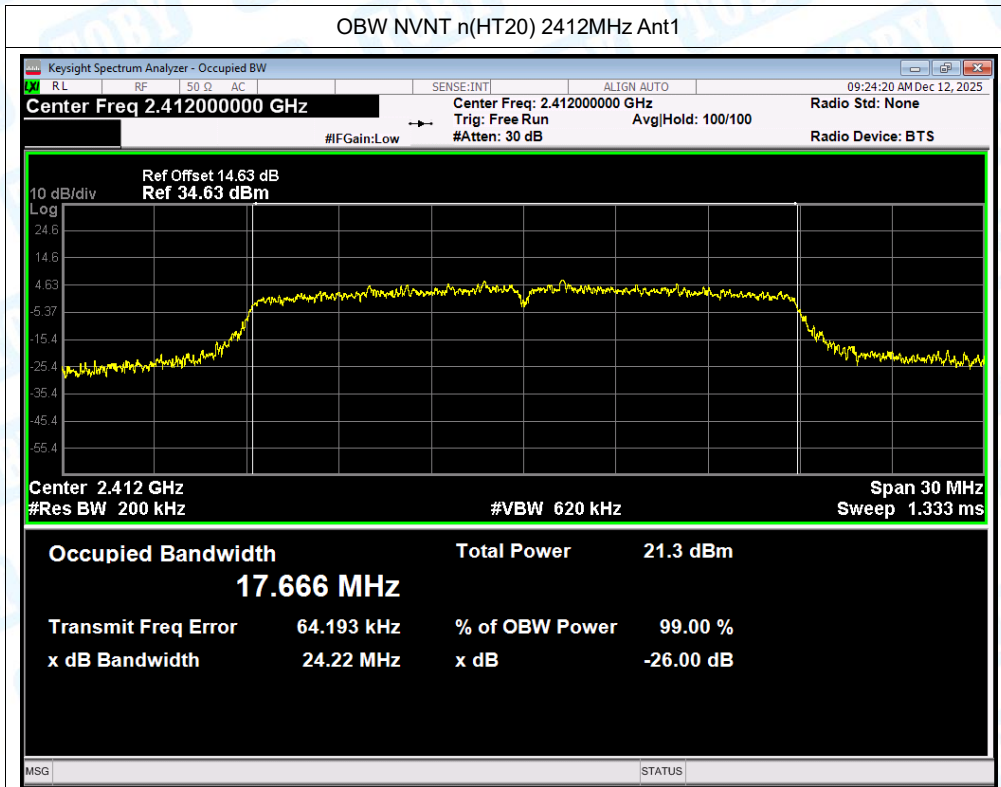


OBW NVNT b 2437MHz Ant1

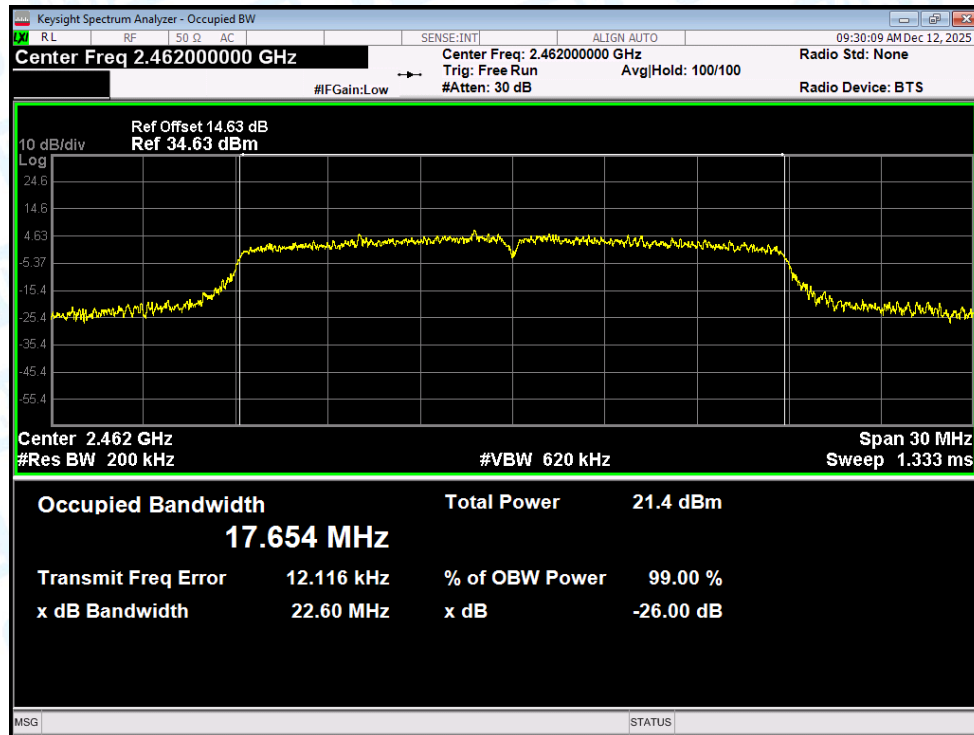




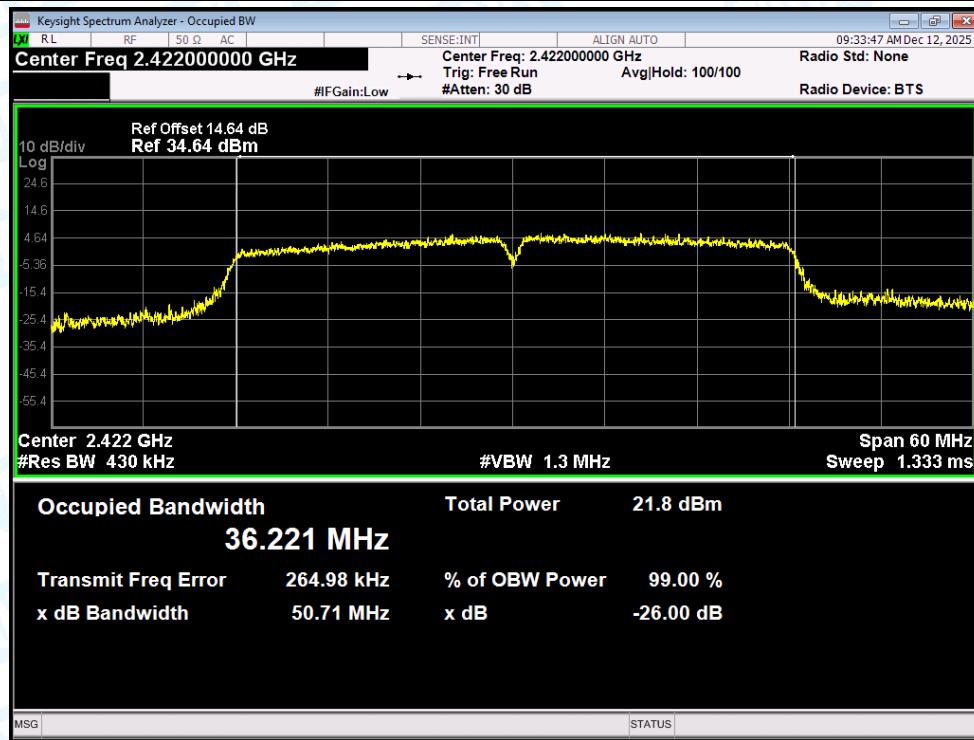


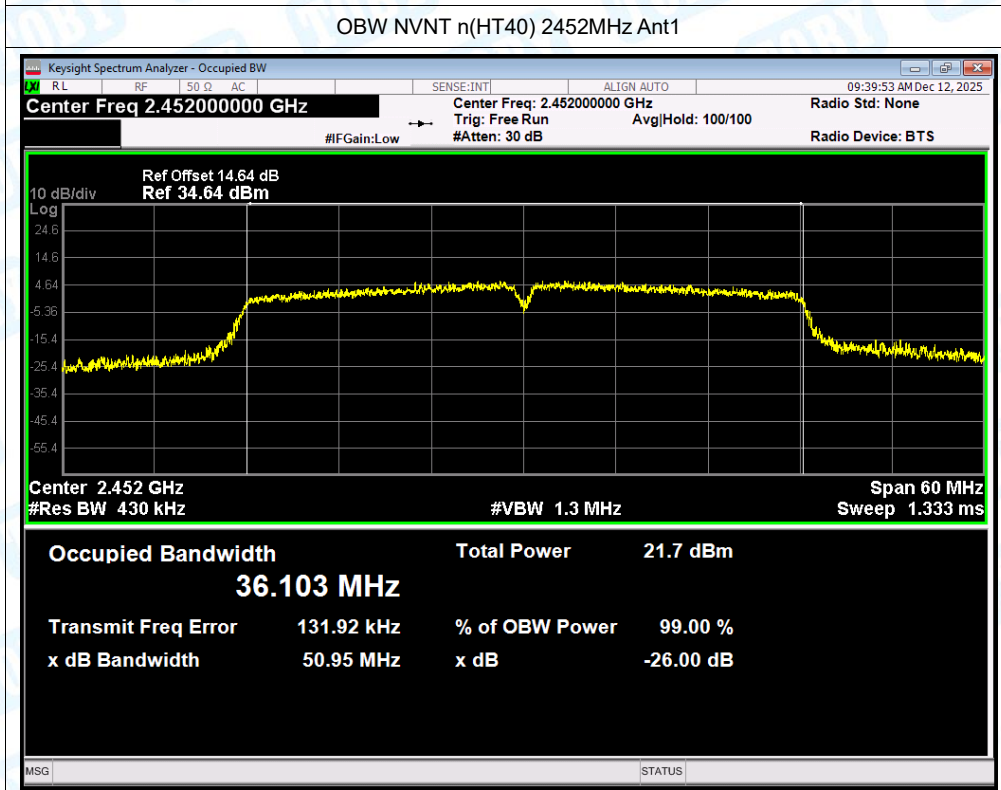
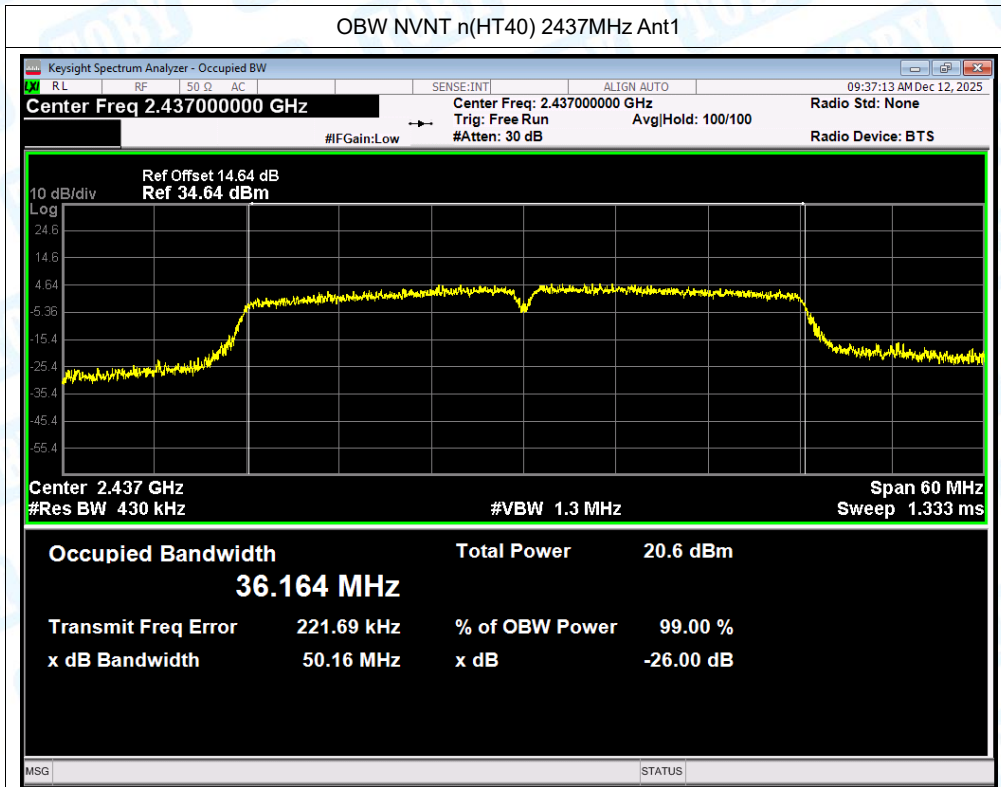


OBW NVNT n(HT20) 2462MHz Ant1



OBW NVNT n(HT40) 2422MHz Ant1



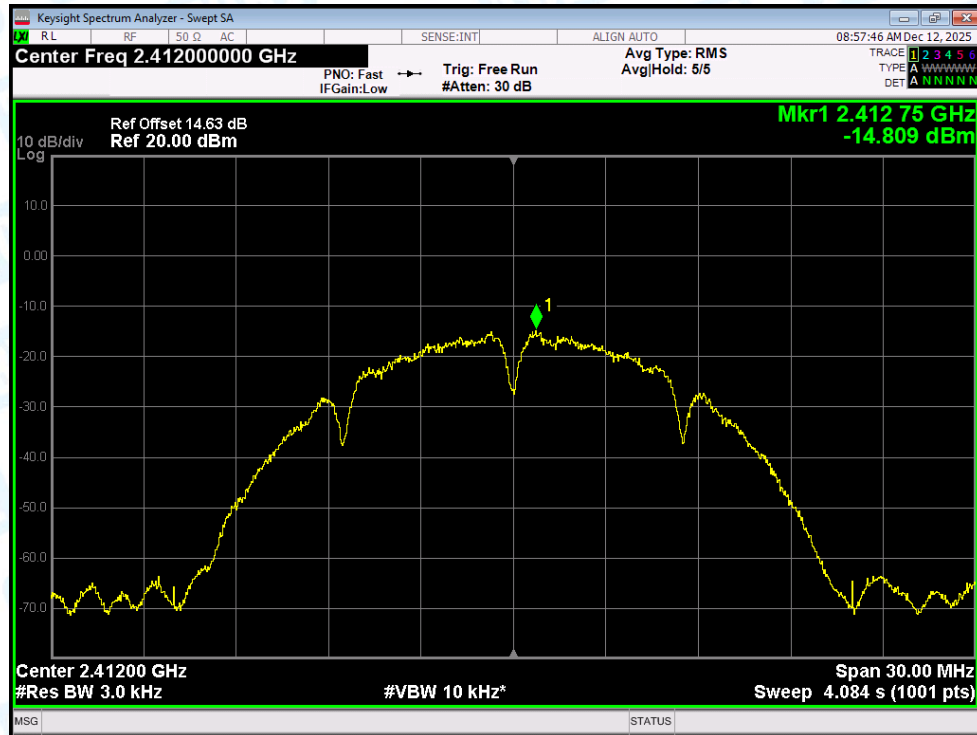


5.Maximum Power Spectral Density Level

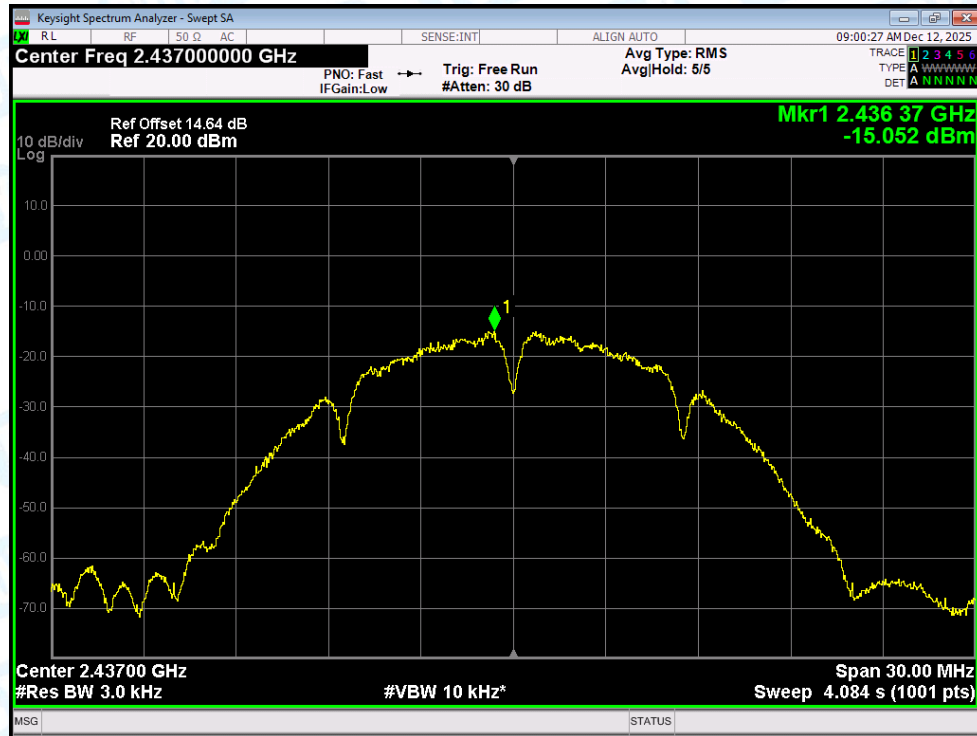
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-14.809	8	Pass
NVNT	b	2437	Ant1	-15.052	8	Pass
NVNT	b	2462	Ant1	-14.613	8	Pass
NVNT	g	2412	Ant1	-17.681	8	Pass
NVNT	g	2437	Ant1	-18.034	8	Pass
NVNT	g	2462	Ant1	-17.813	8	Pass
NVNT	n(HT20)	2412	Ant1	-17.603	8	Pass
NVNT	n(HT20)	2437	Ant1	-18.041	8	Pass
NVNT	n(HT20)	2462	Ant1	-17.843	8	Pass
NVNT	n(HT40)	2422	Ant1	-21.823	8	Pass
NVNT	n(HT40)	2437	Ant1	-22.003	8	Pass
NVNT	n(HT40)	2452	Ant1	-20.772	8	Pass

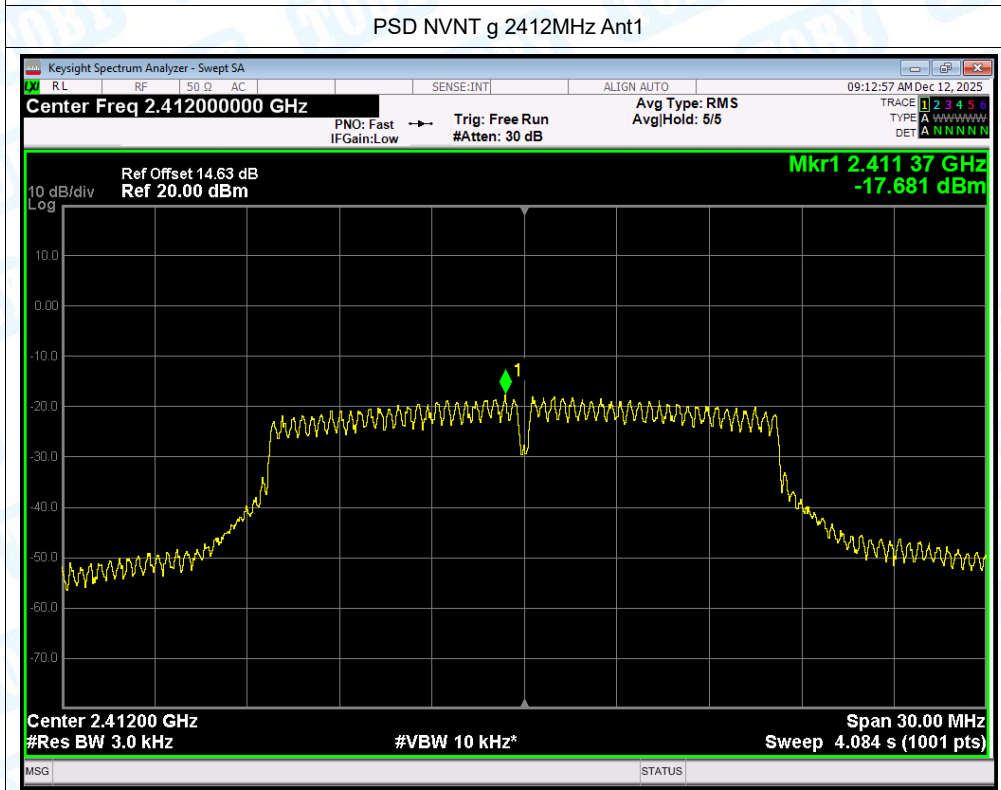
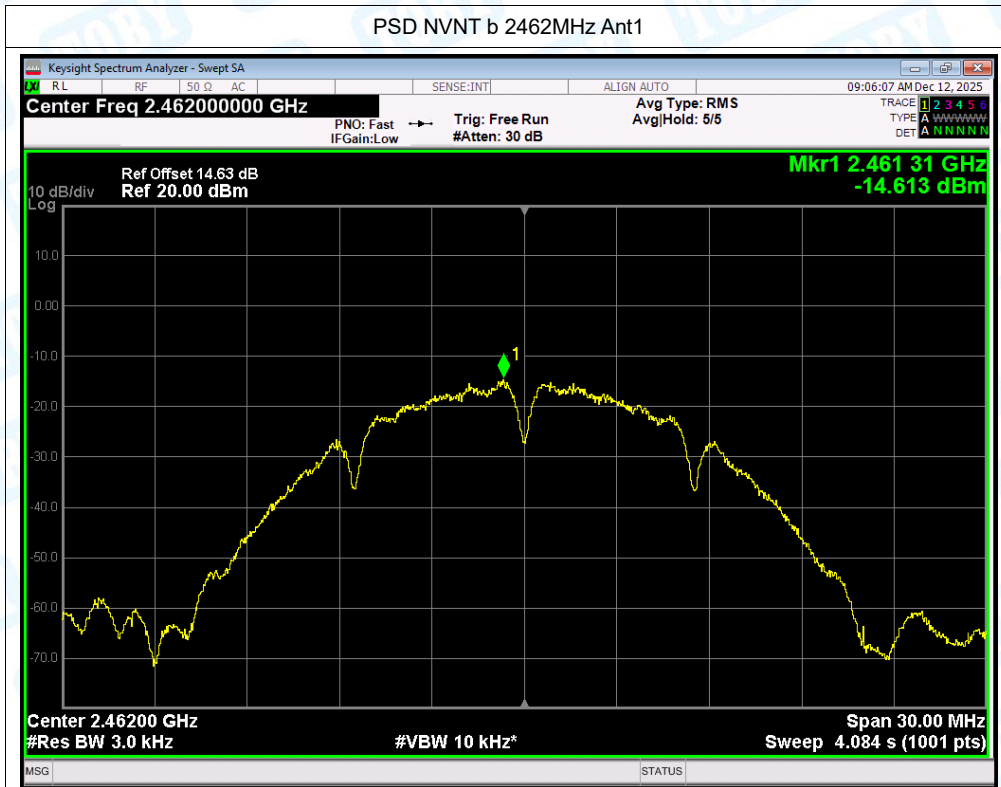
Test Graphs

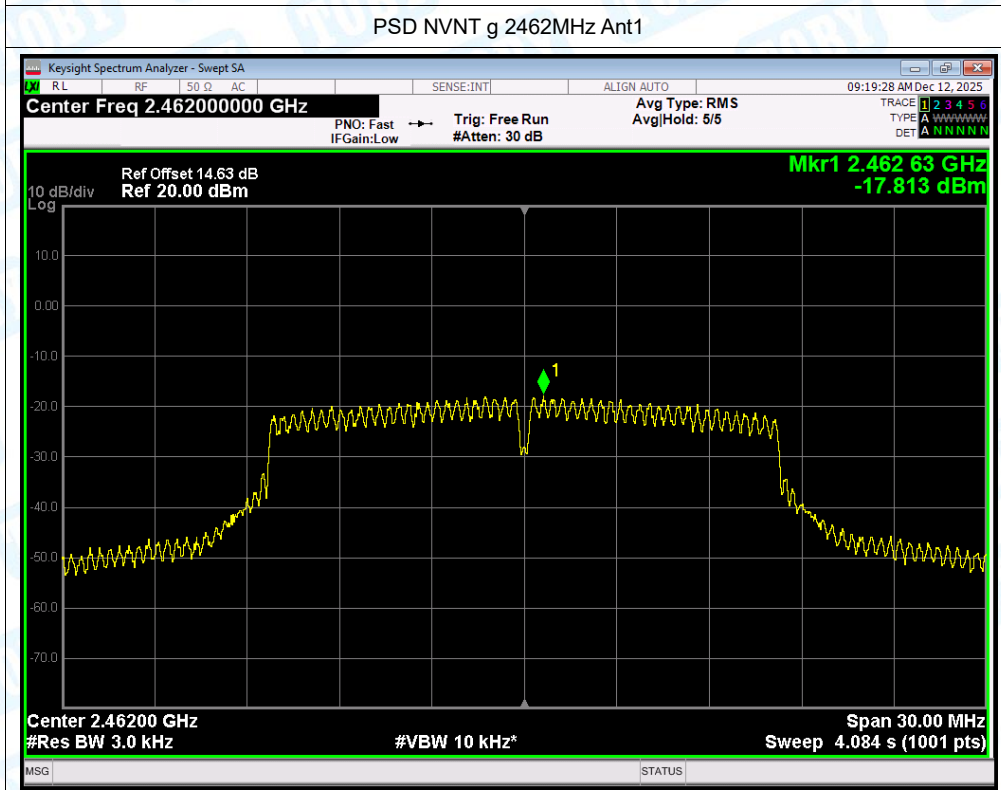
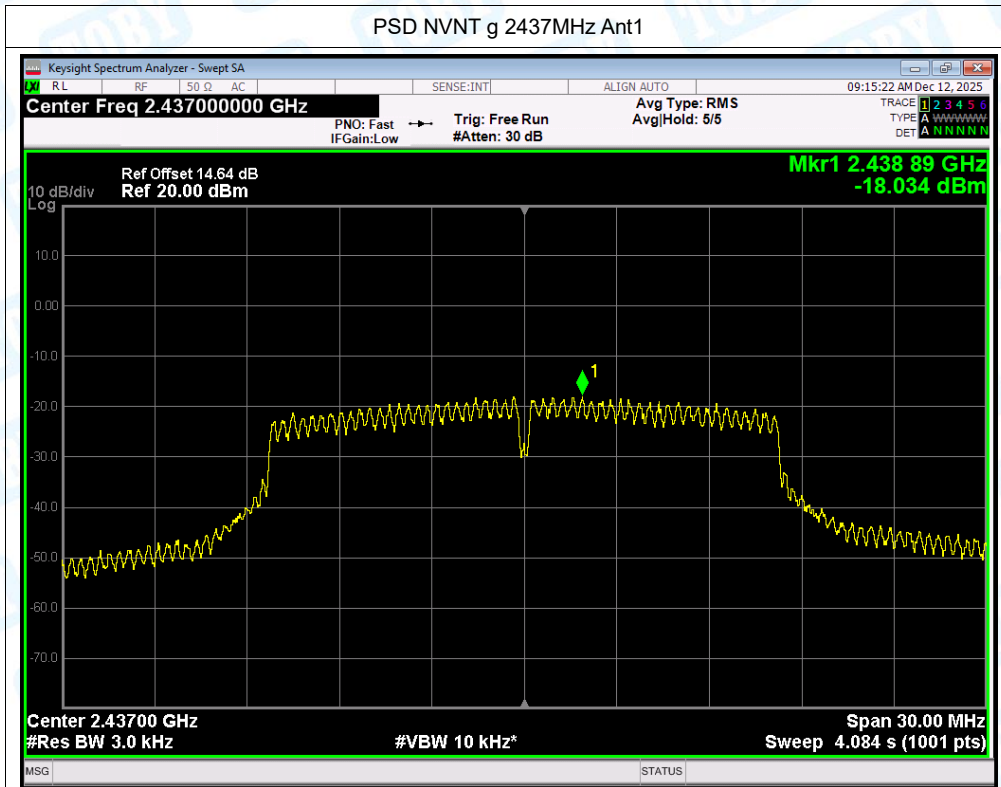
PSD NVNT b 2412MHz Ant1

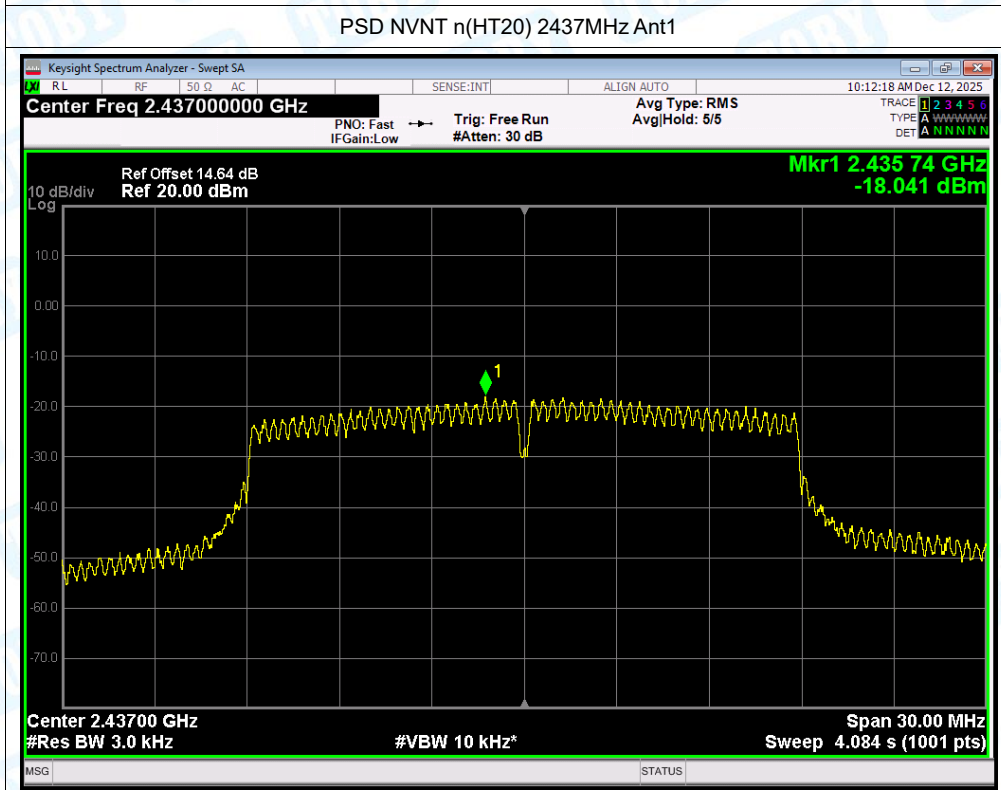
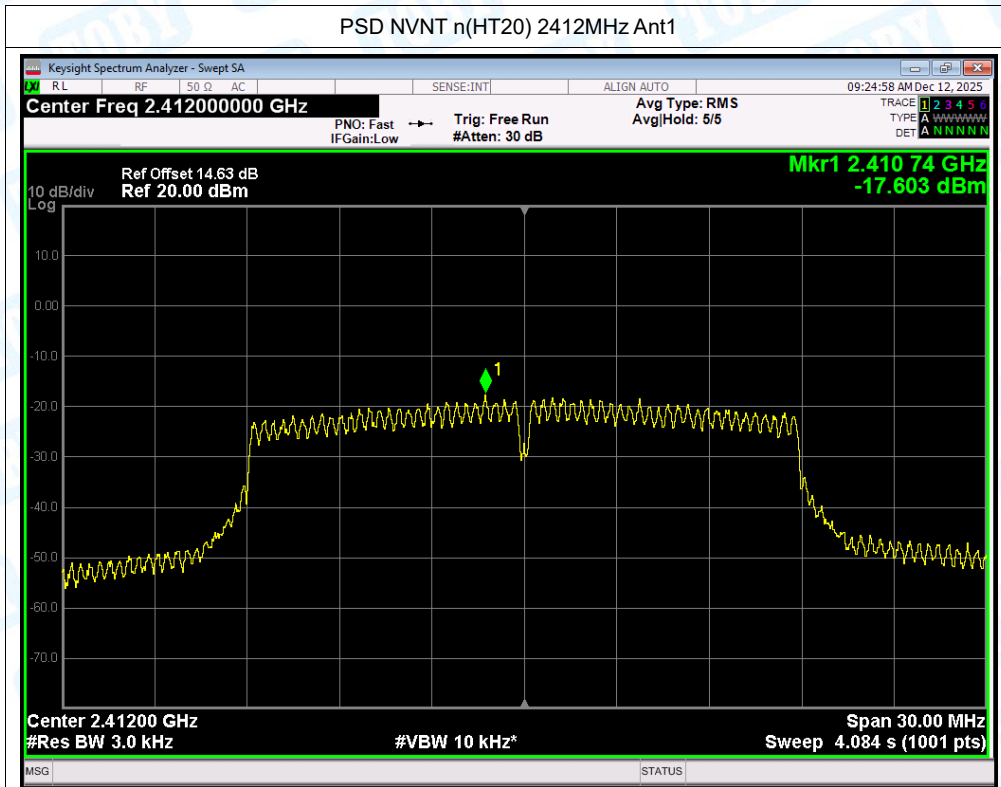


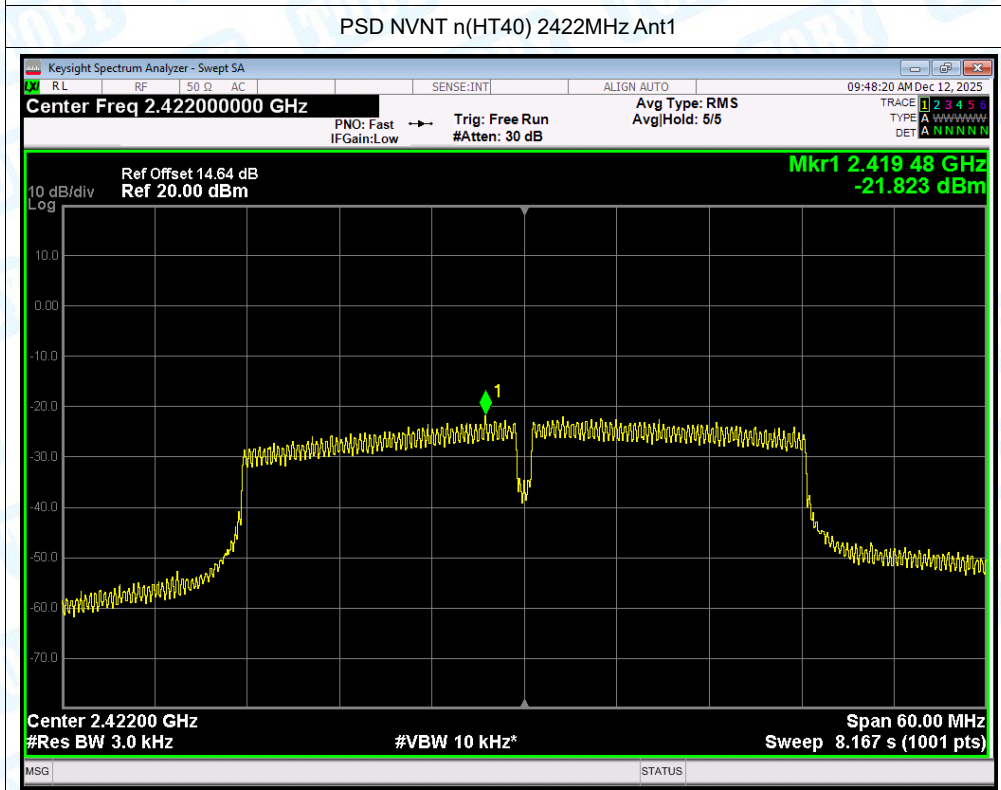
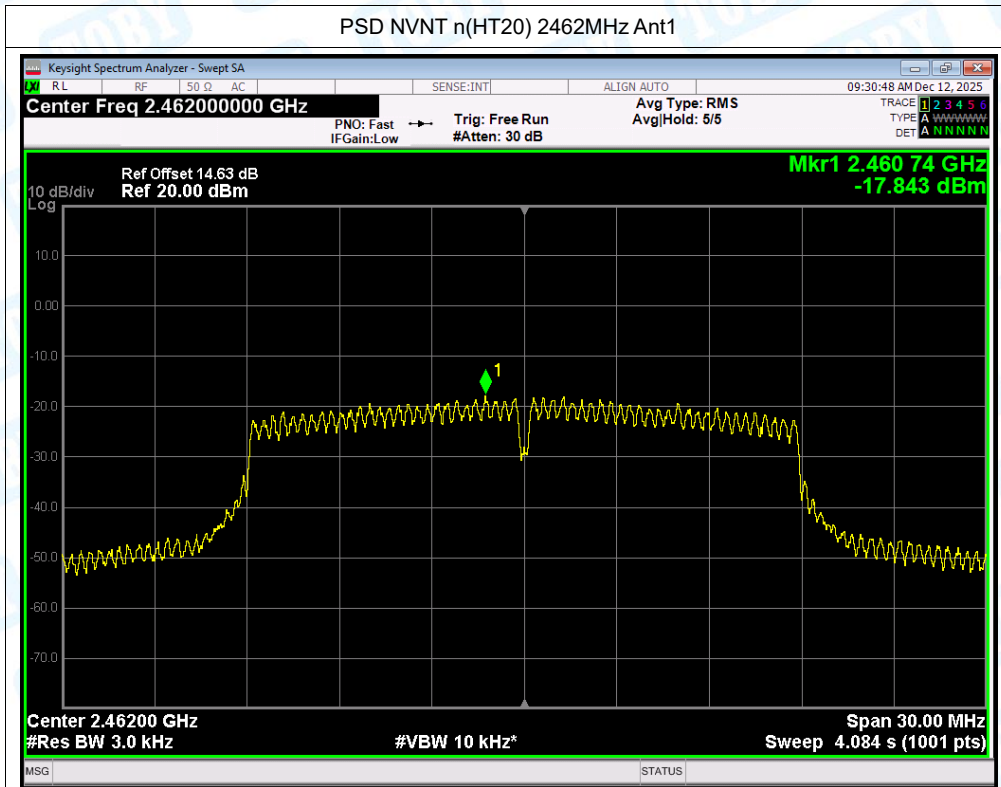
PSD NVNT b 2437MHz Ant1



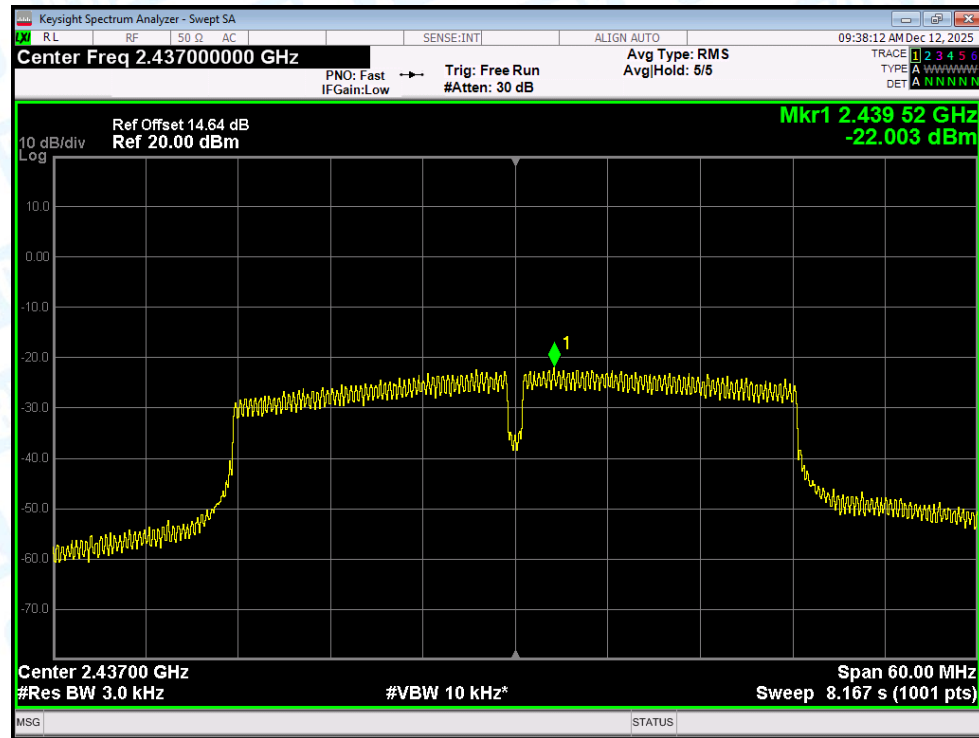




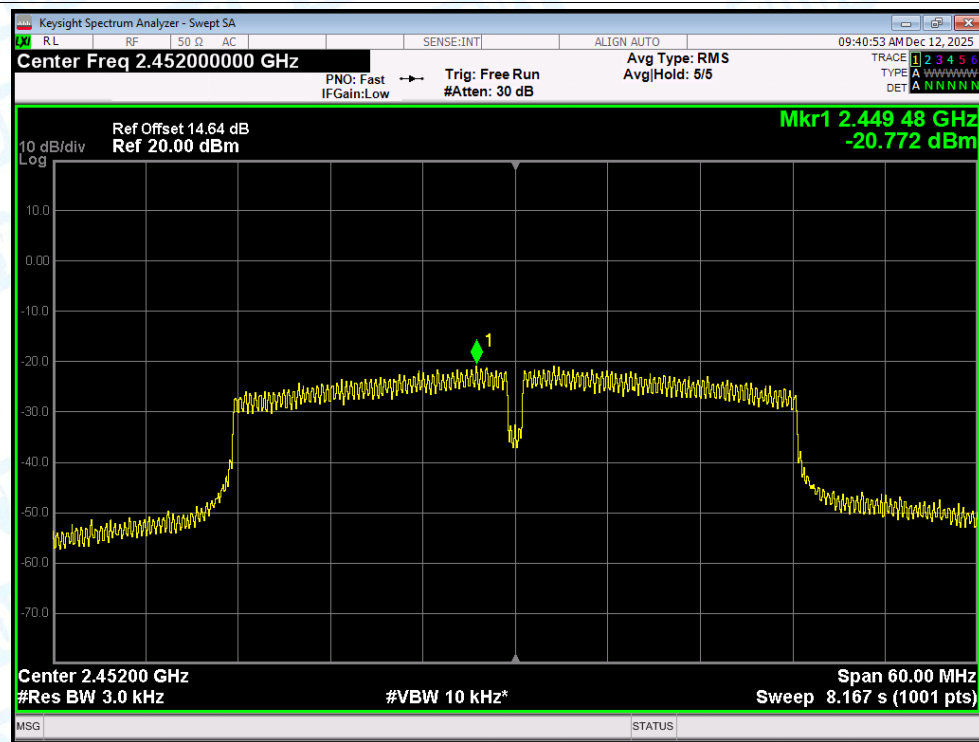




PSD NVNT n(HT40) 2437MHz Ant1



PSD NVNT n(HT40) 2452MHz Ant1

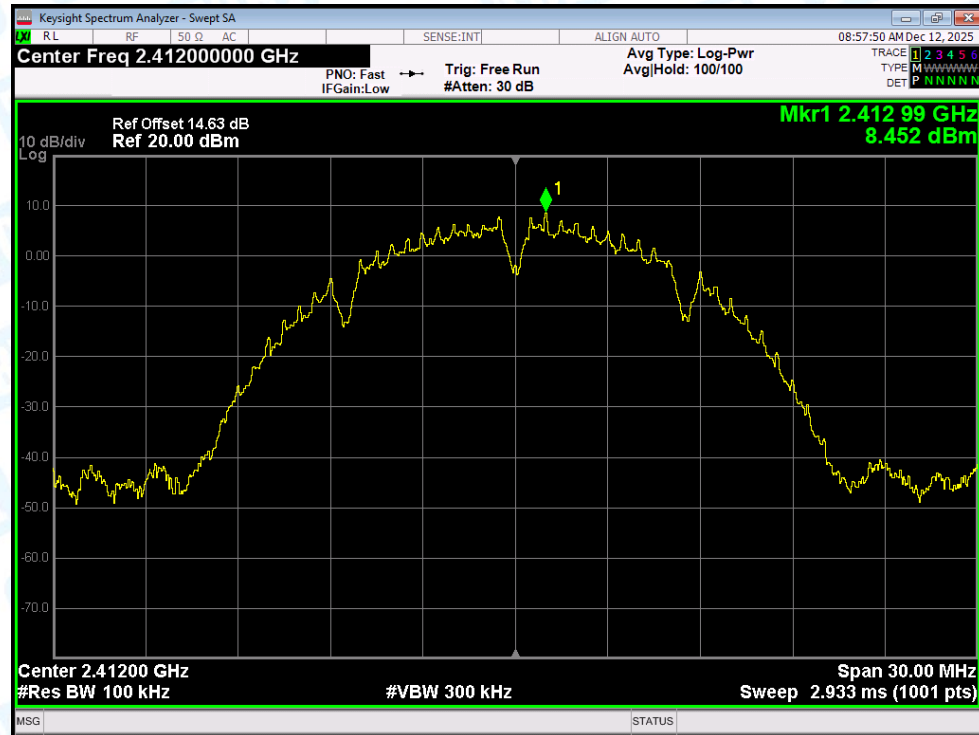


6.Band Edge

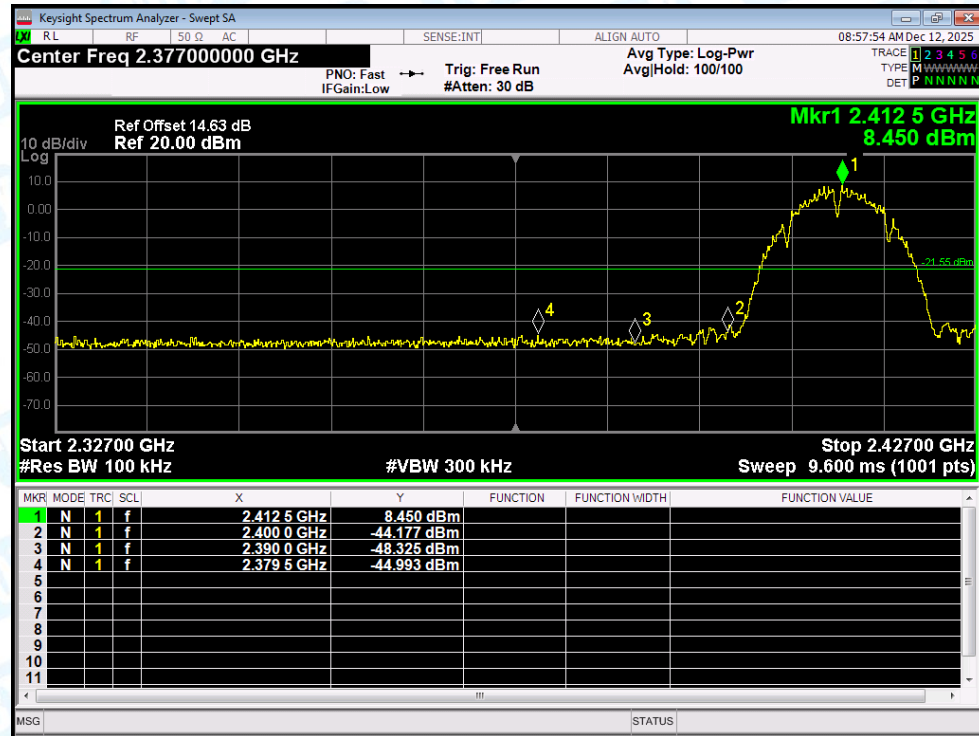
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.44	-30	Pass
NVNT	b	2462	Ant1	-52.49	-30	Pass
NVNT	g	2412	Ant1	-43.66	-30	Pass
NVNT	g	2462	Ant1	-39.71	-30	Pass
NVNT	n(HT20)	2412	Ant1	-40.71	-30	Pass
NVNT	n(HT20)	2462	Ant1	-39.87	-30	Pass
NVNT	n(HT40)	2422	Ant1	-34.26	-30	Pass
NVNT	n(HT40)	2452	Ant1	-30.69	-30	Pass

Test Graphs

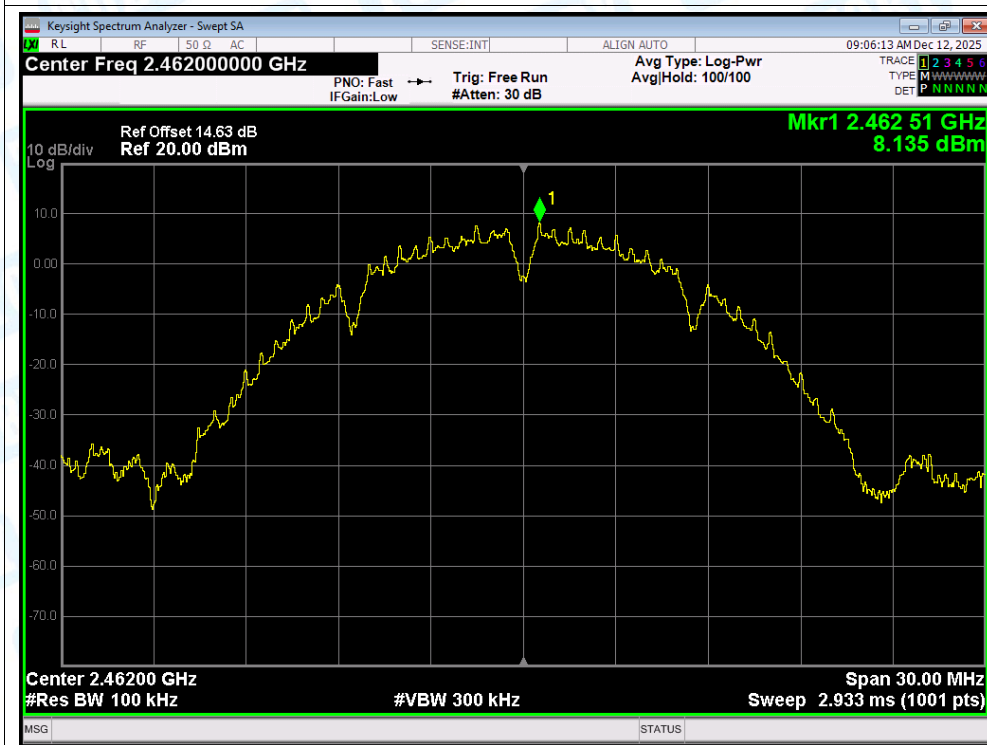
Band Edge NVNT b 2412MHz Ant1 Ref



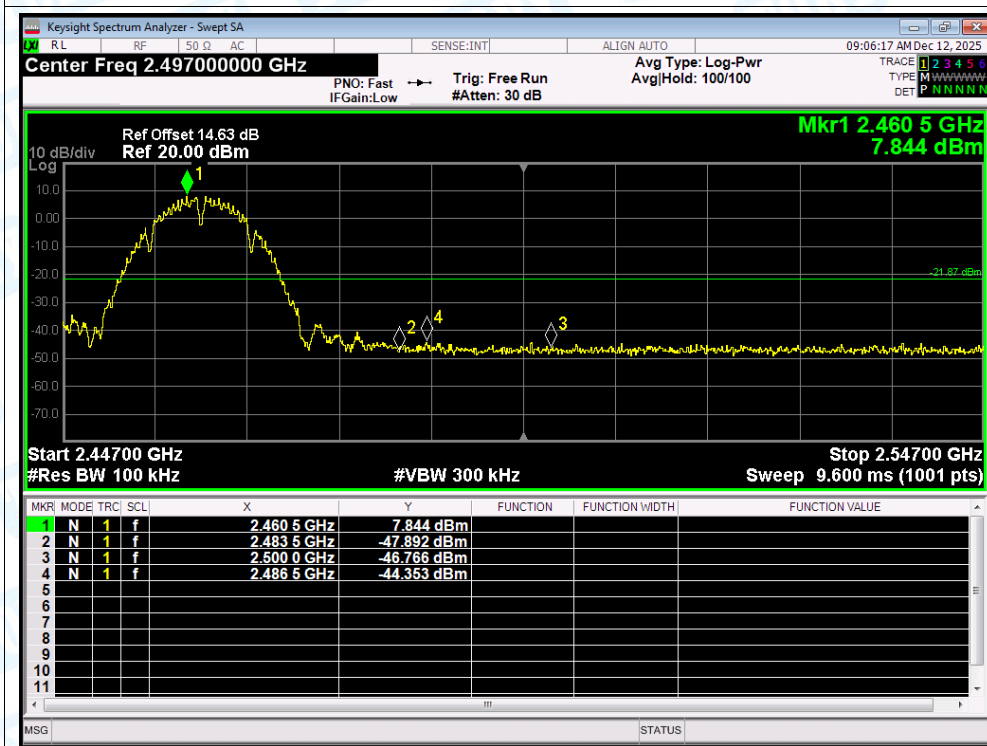
Band Edge NVNT b 2412MHz Ant1 Emission



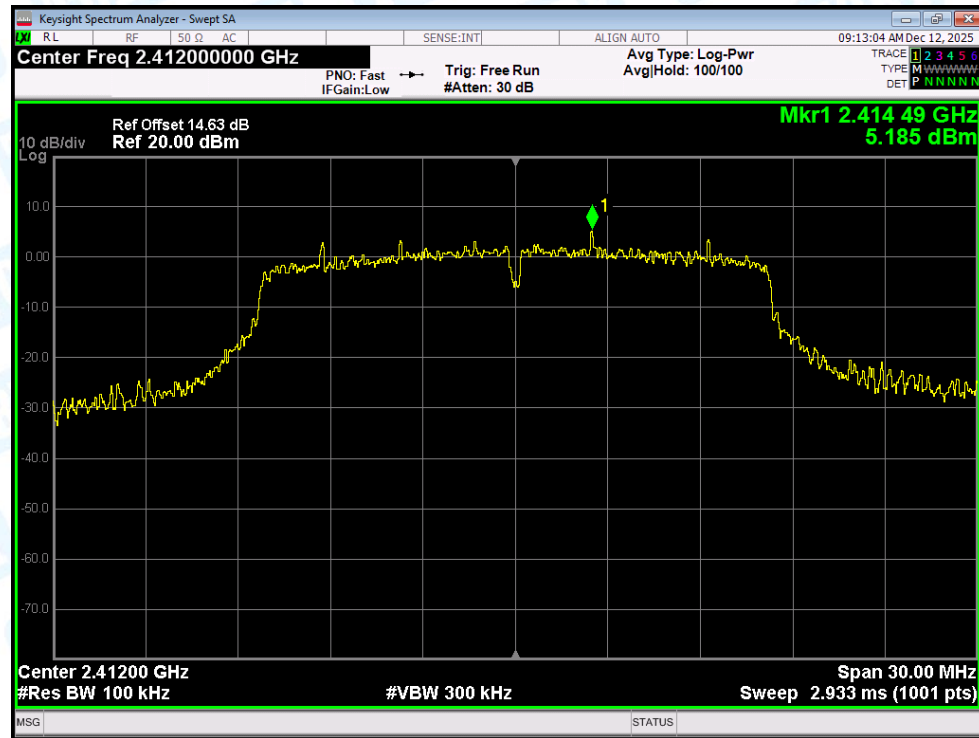
Band Edge NVNT b 2462MHz Ant1 Ref



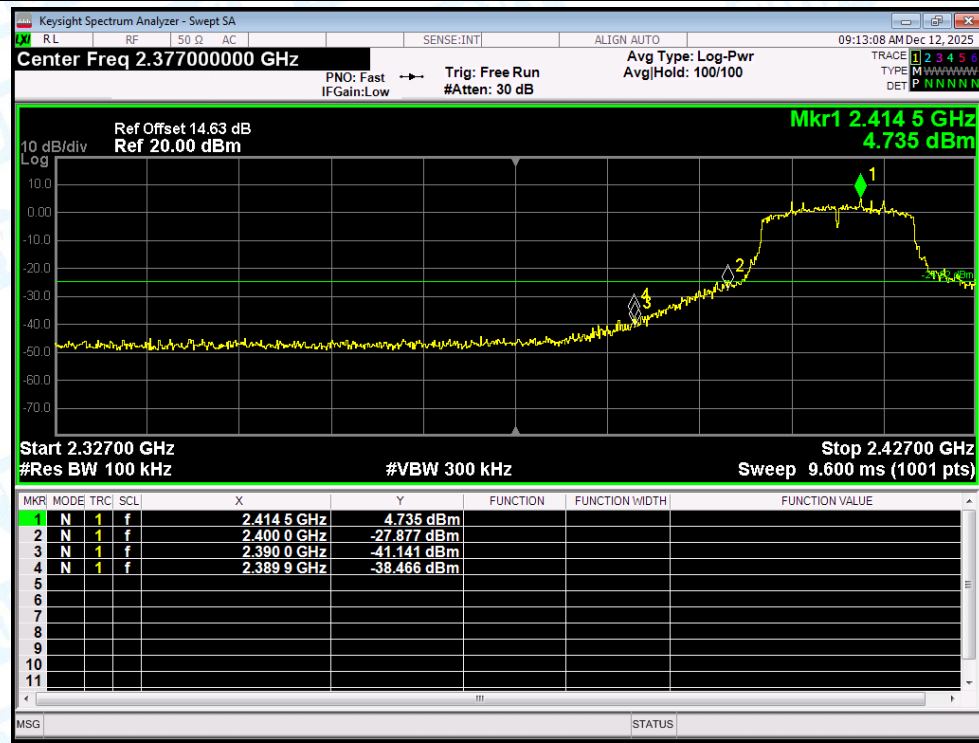
Band Edge NVNT b 2462MHz Ant1 Emission



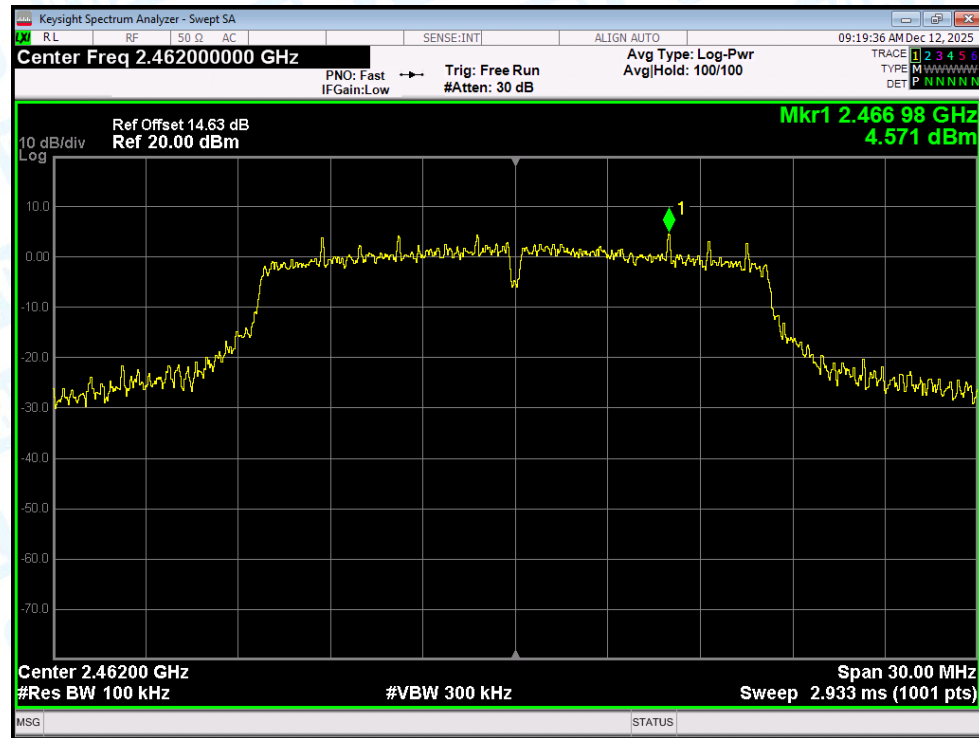
Band Edge NVNT g 2412MHz Ant1 Ref



Band Edge NVNT g 2412MHz Ant1 Emission



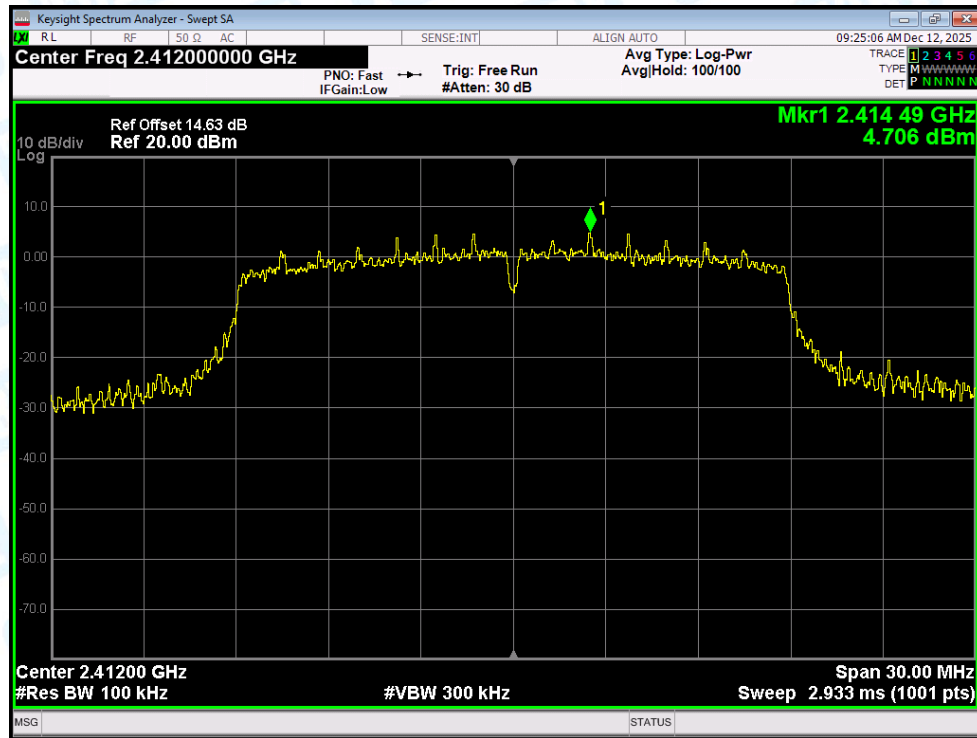
Band Edge NVNT g 2462MHz Ant1 Ref



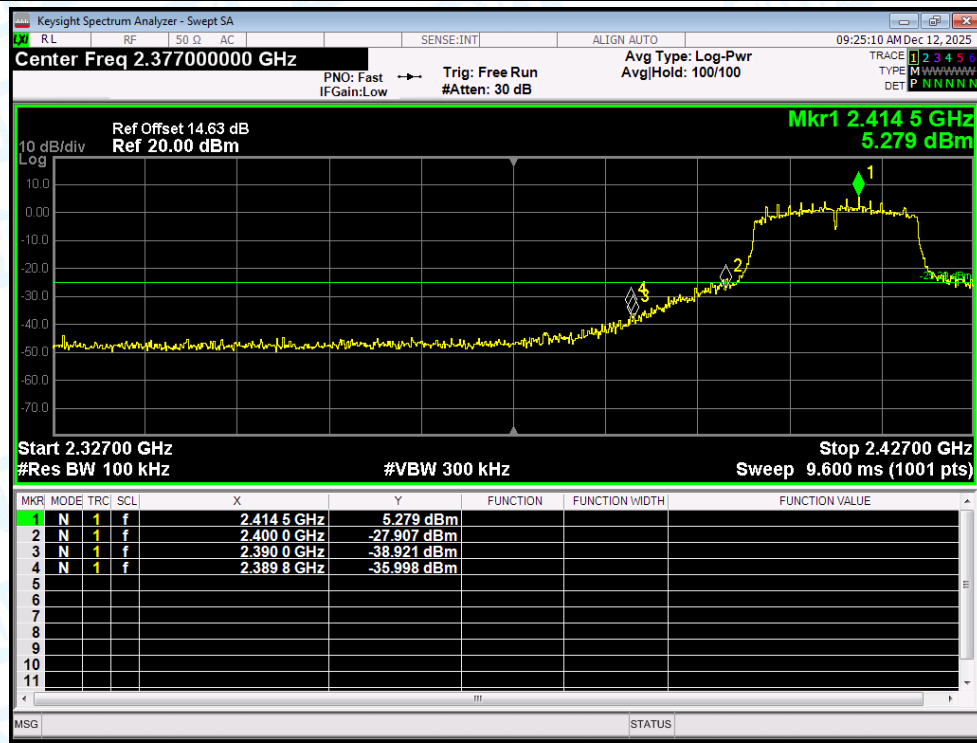
Band Edge NVNT g 2462MHz Ant1 Emission

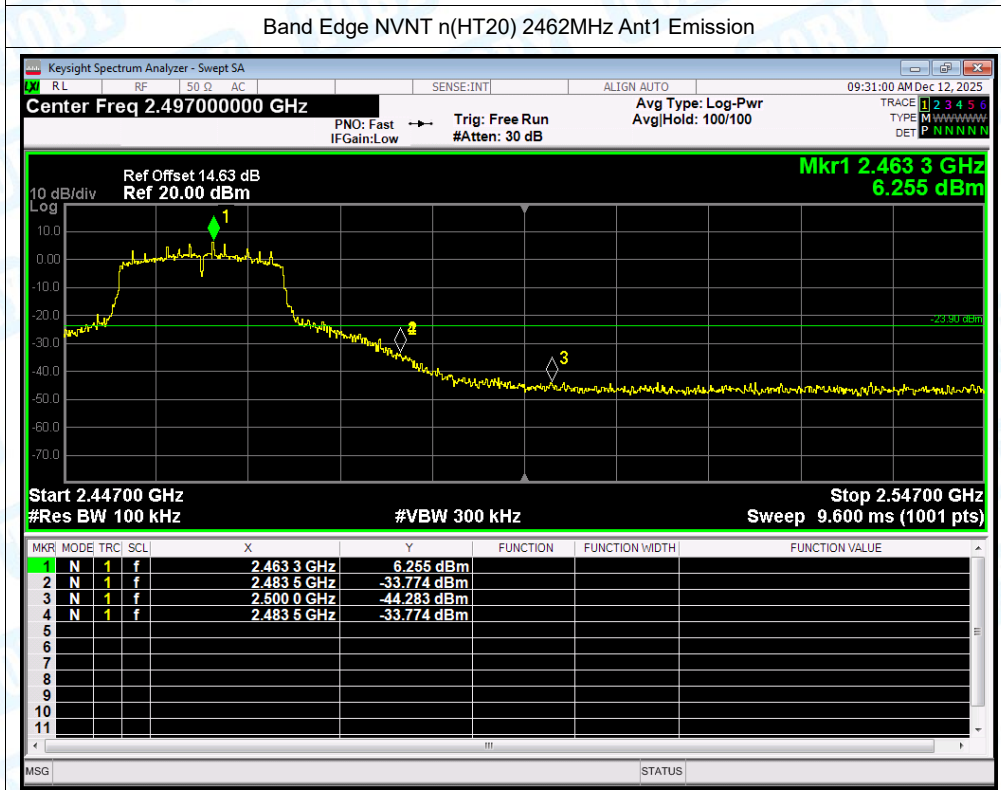
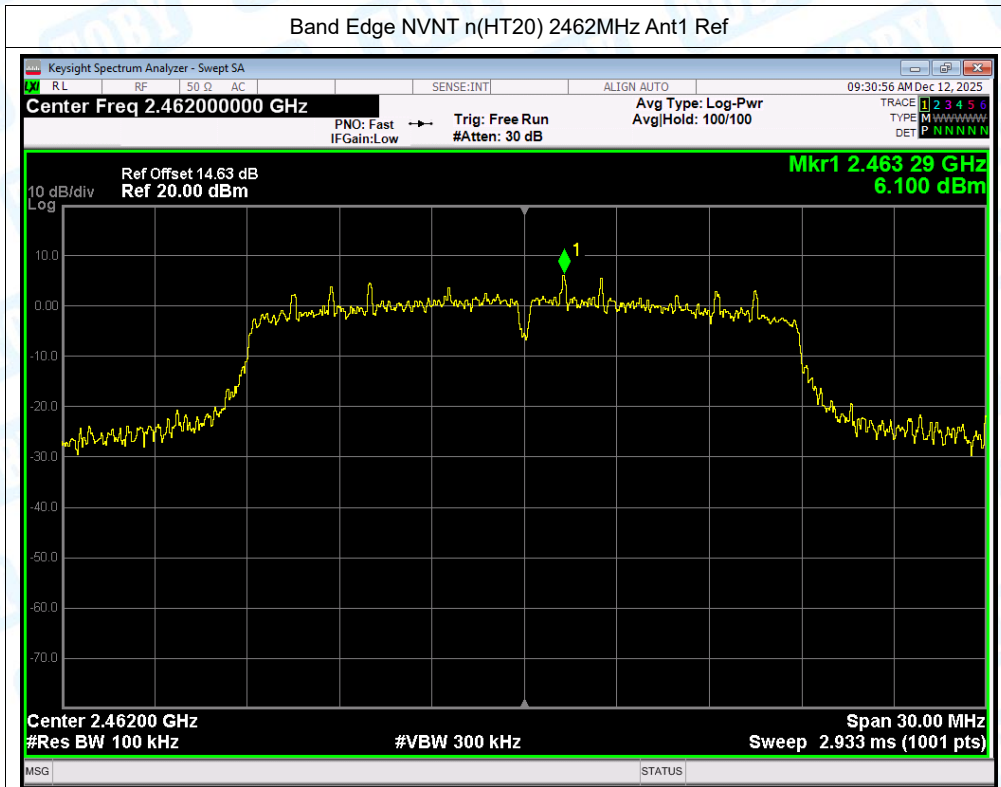


Band Edge NVNT n(HT20) 2412MHz Ant1 Ref

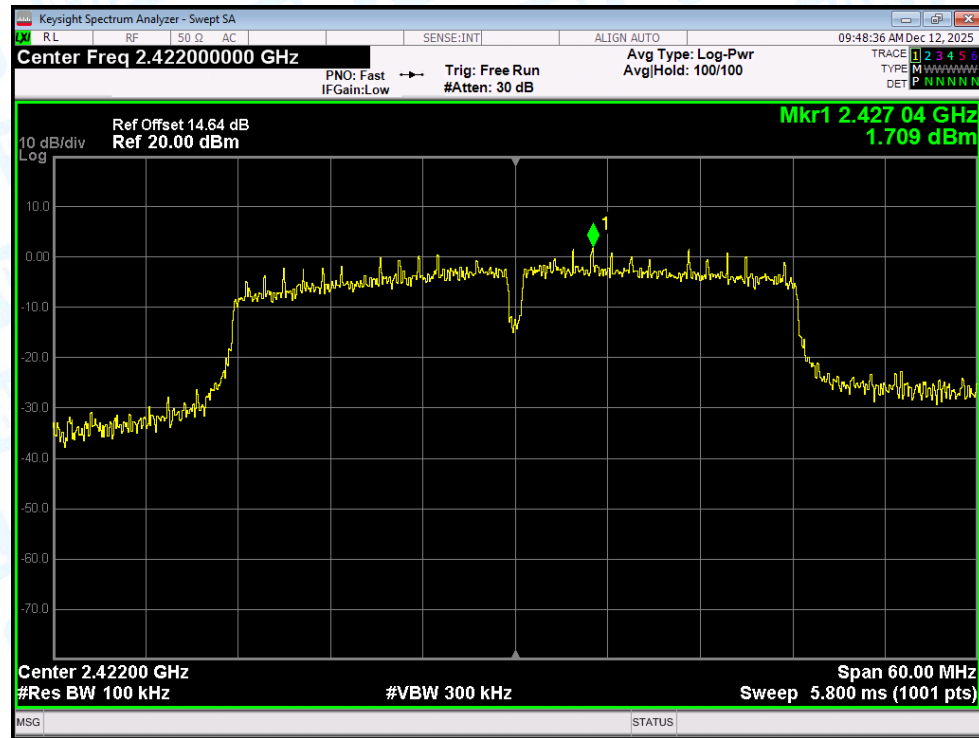


Band Edge NVNT n(HT20) 2412MHz Ant1 Emission

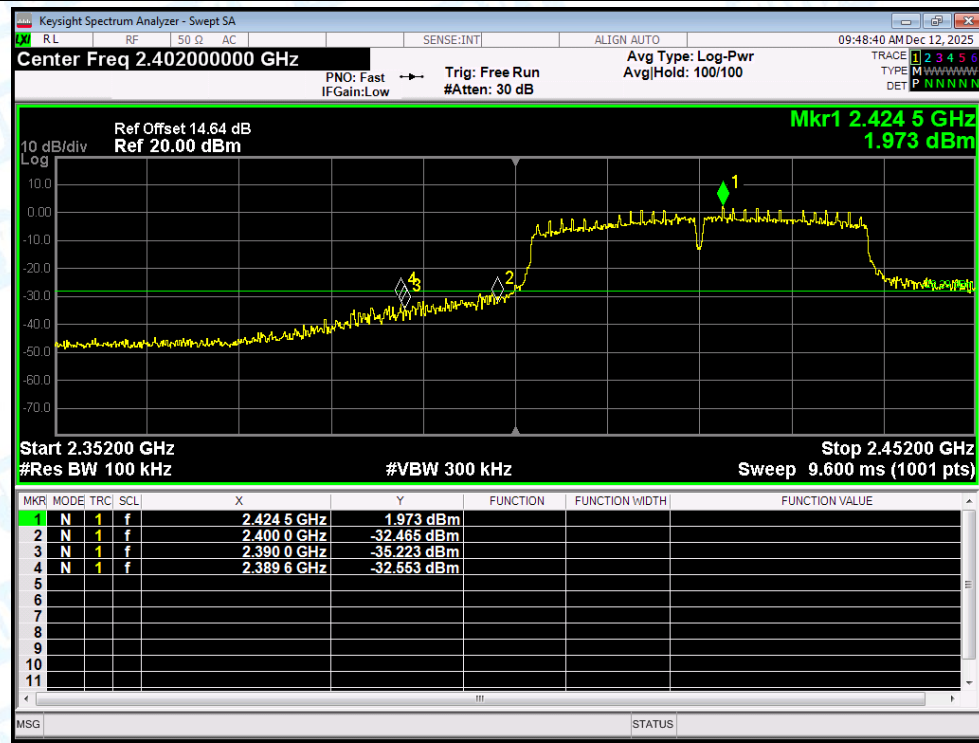




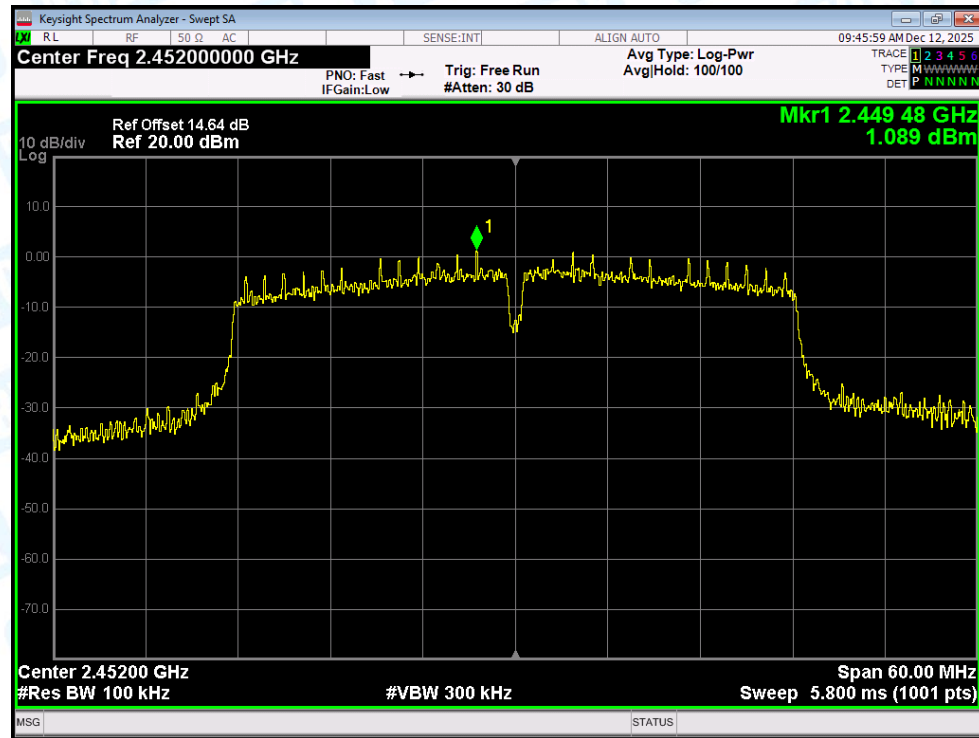
Band Edge NVNT n(HT40) 2422MHz Ant1 Ref



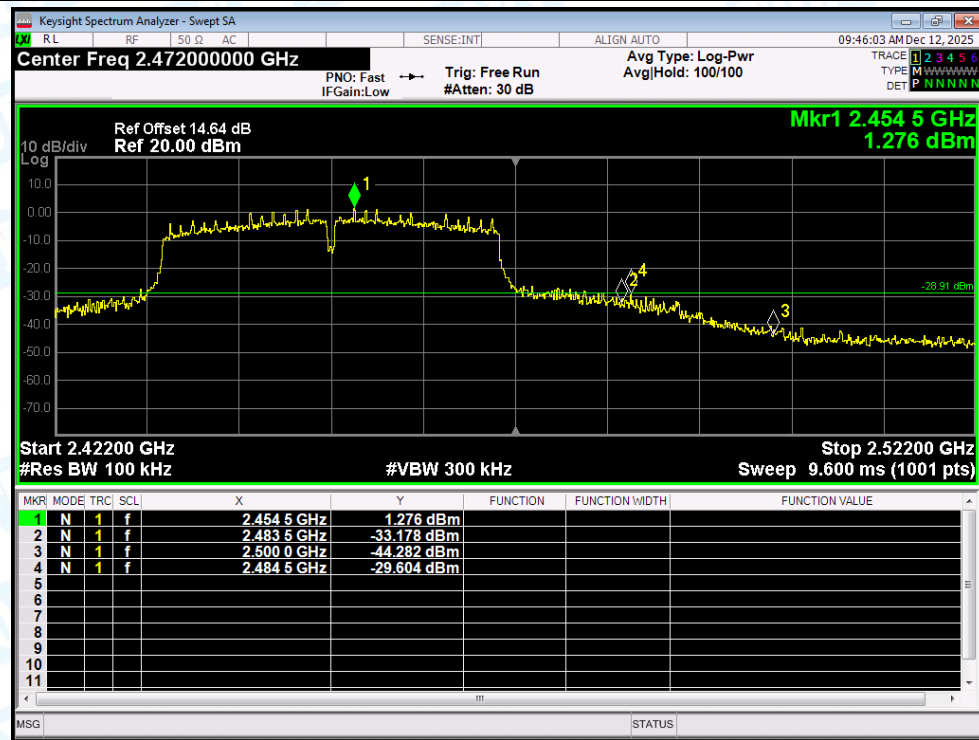
Band Edge NVNT n(HT40) 2422MHz Ant1 Emission



Band Edge NVNT n(HT40) 2452MHz Ant1 Ref



Band Edge NVNT n(HT40) 2452MHz Ant1 Emission

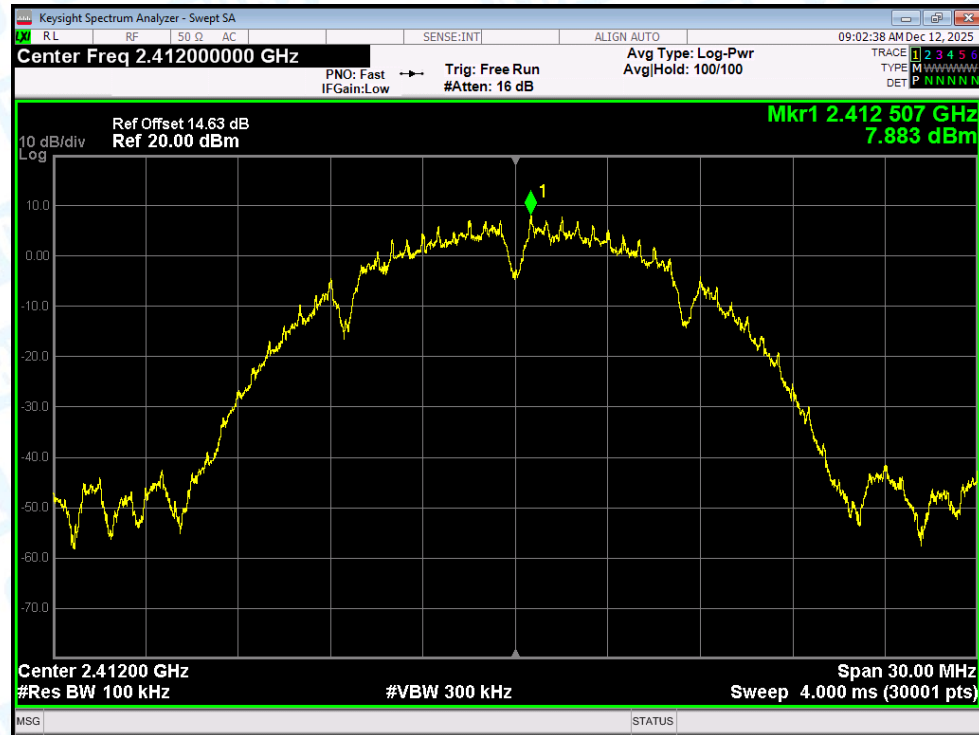


7. Conducted RF Spurious Emission

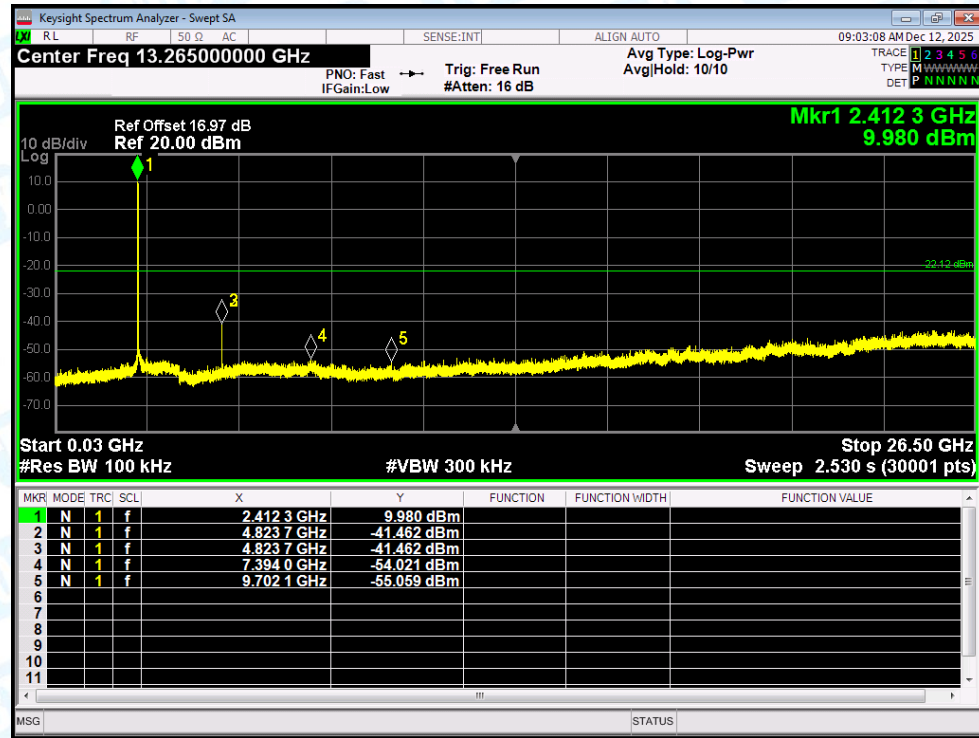
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-49.34	-30	Pass
NVNT	b	2437	Ant1	-51.9	-30	Pass
NVNT	b	2462	Ant1	-51.71	-30	Pass
NVNT	g	2412	Ant1	-49.25	-30	Pass
NVNT	g	2437	Ant1	-48.51	-30	Pass
NVNT	g	2462	Ant1	-47.84	-30	Pass
NVNT	n(HT20)	2412	Ant1	-48.86	-30	Pass
NVNT	n(HT20)	2437	Ant1	-48.31	-30	Pass
NVNT	n(HT20)	2462	Ant1	-47.89	-30	Pass
NVNT	n(HT40)	2422	Ant1	-45.03	-30	Pass
NVNT	n(HT40)	2437	Ant1	-45.21	-30	Pass
NVNT	n(HT40)	2452	Ant1	-40.29	-30	Pass

Test Graphs

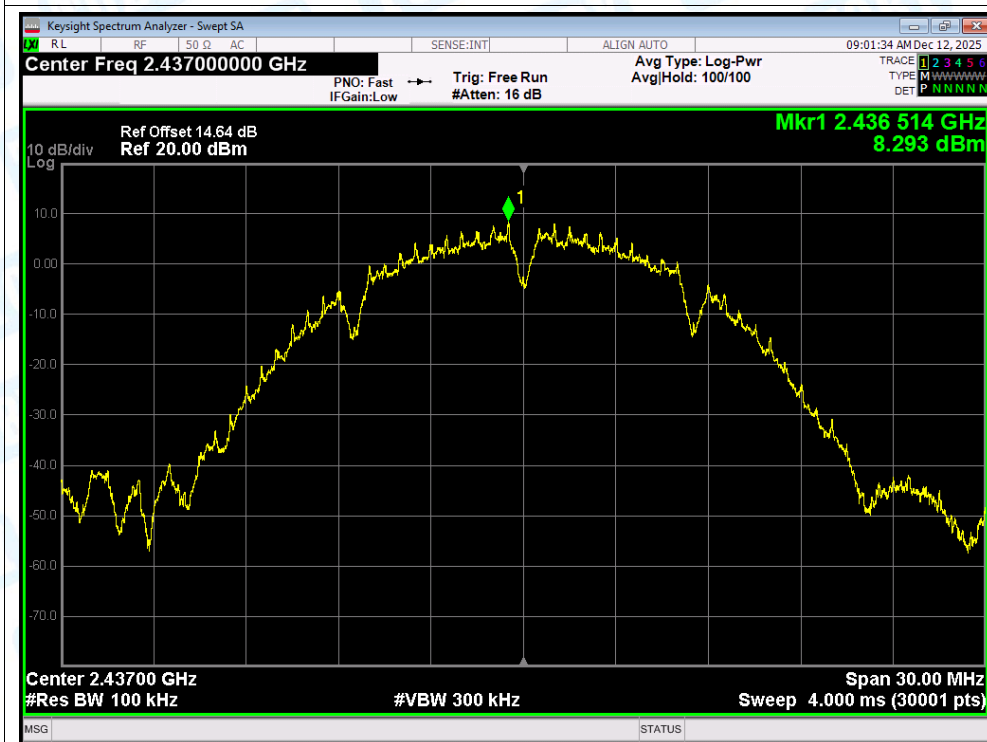
Tx. Spurious NVNT b 2412MHz Ant1 Ref



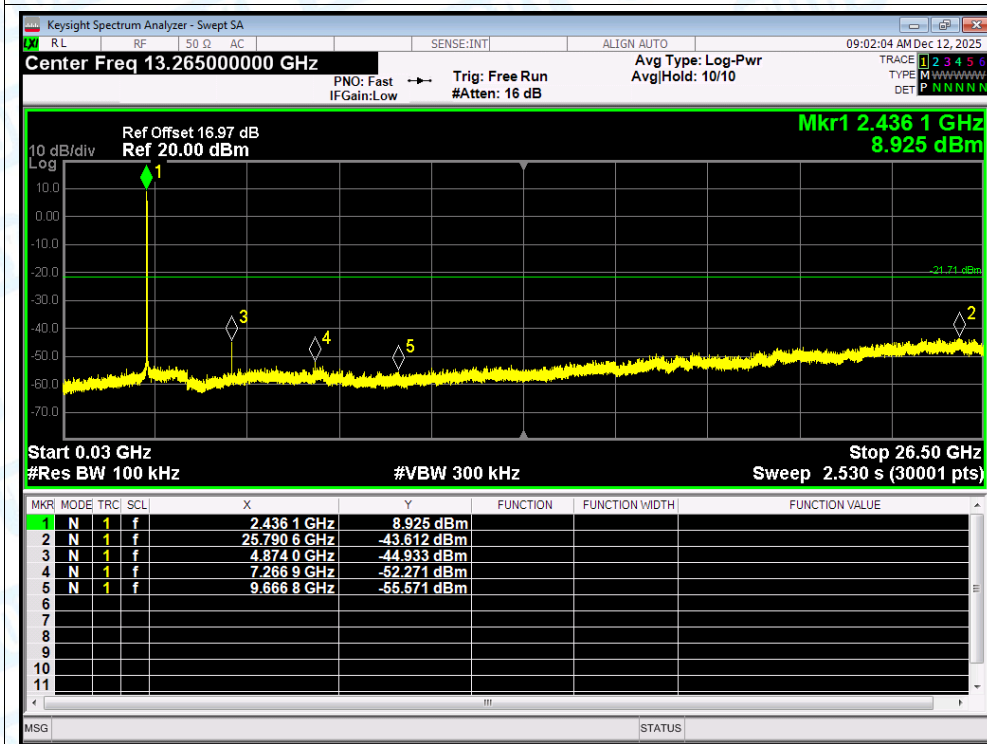
Tx. Spurious NVNT b 2412MHz Ant1 Emission



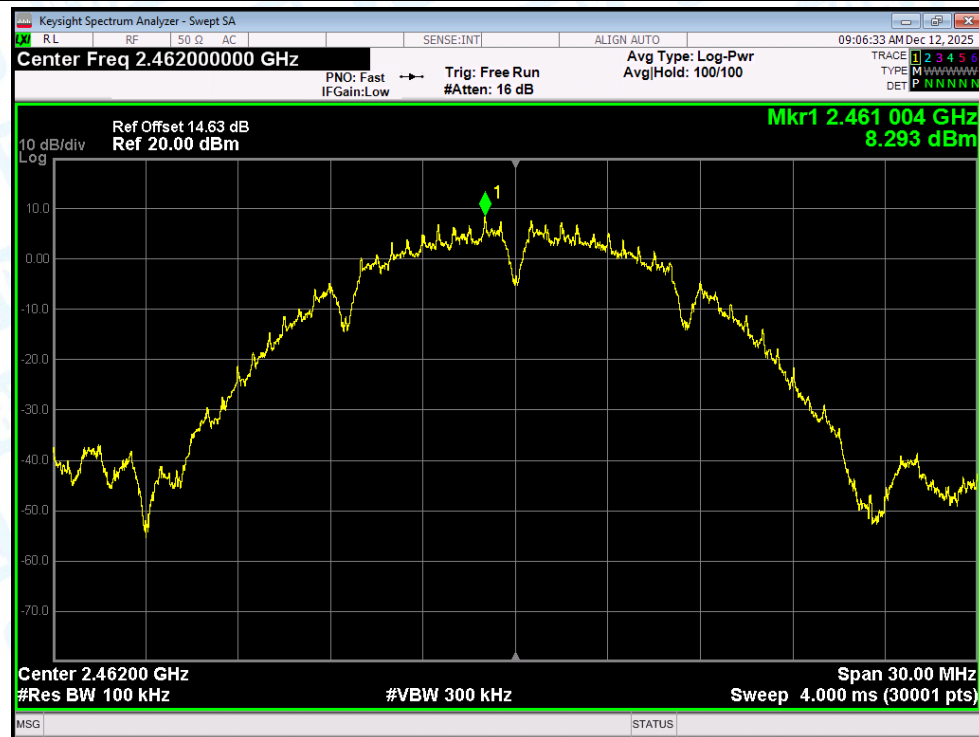
Tx. Spurious NVNT b 2437MHz Ant1 Ref



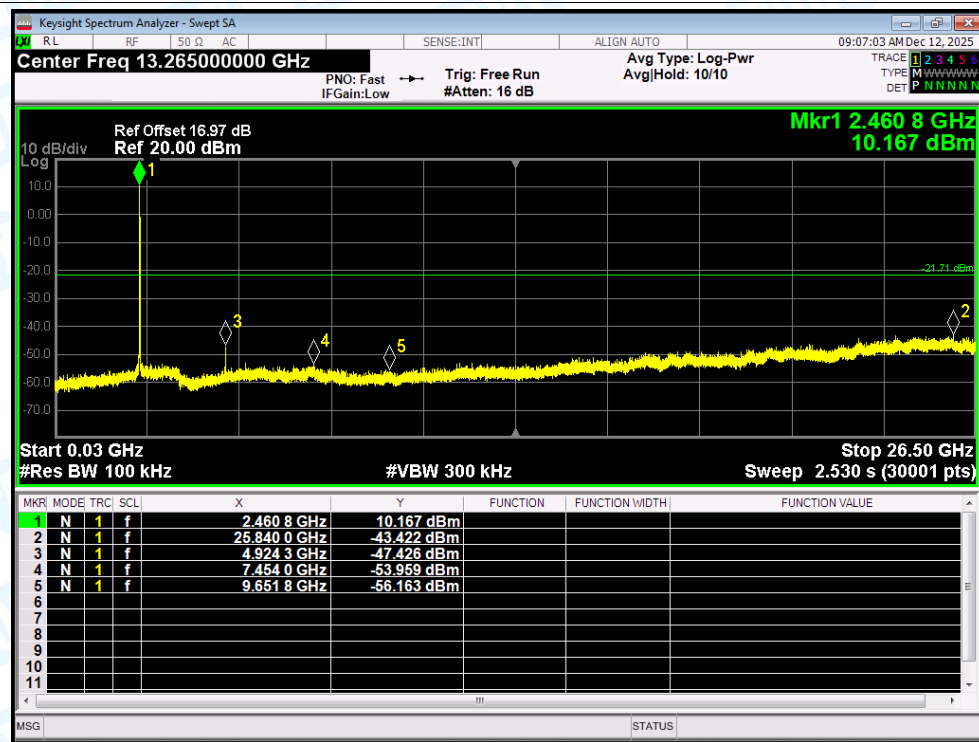
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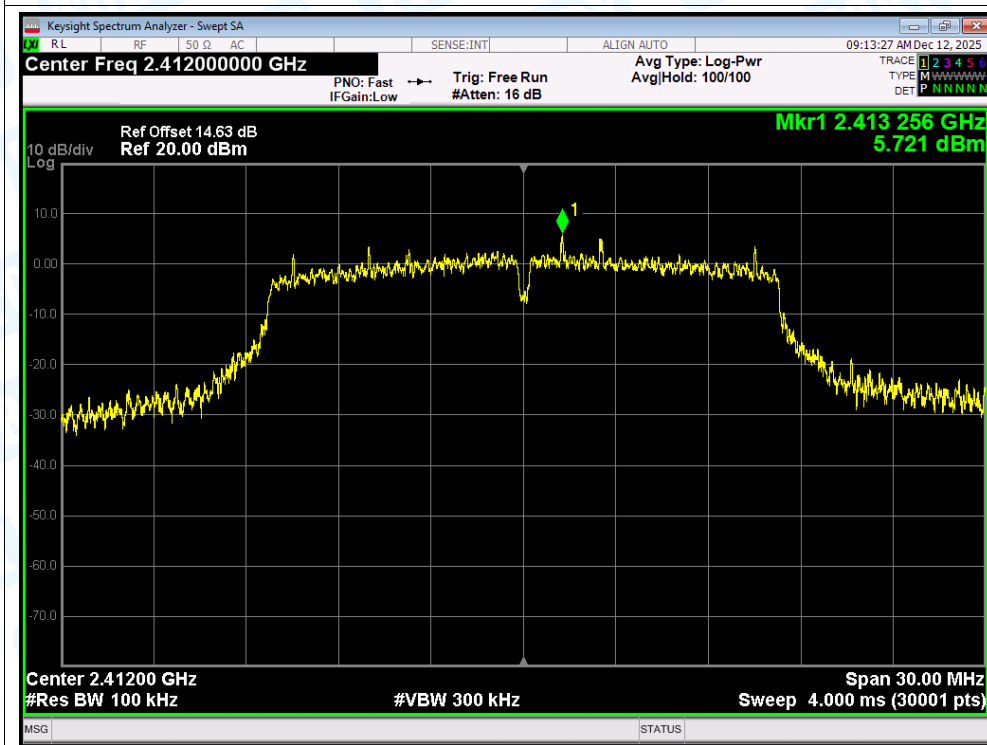
Tx. Spurious NVNT b 2462MHz Ant1 Ref



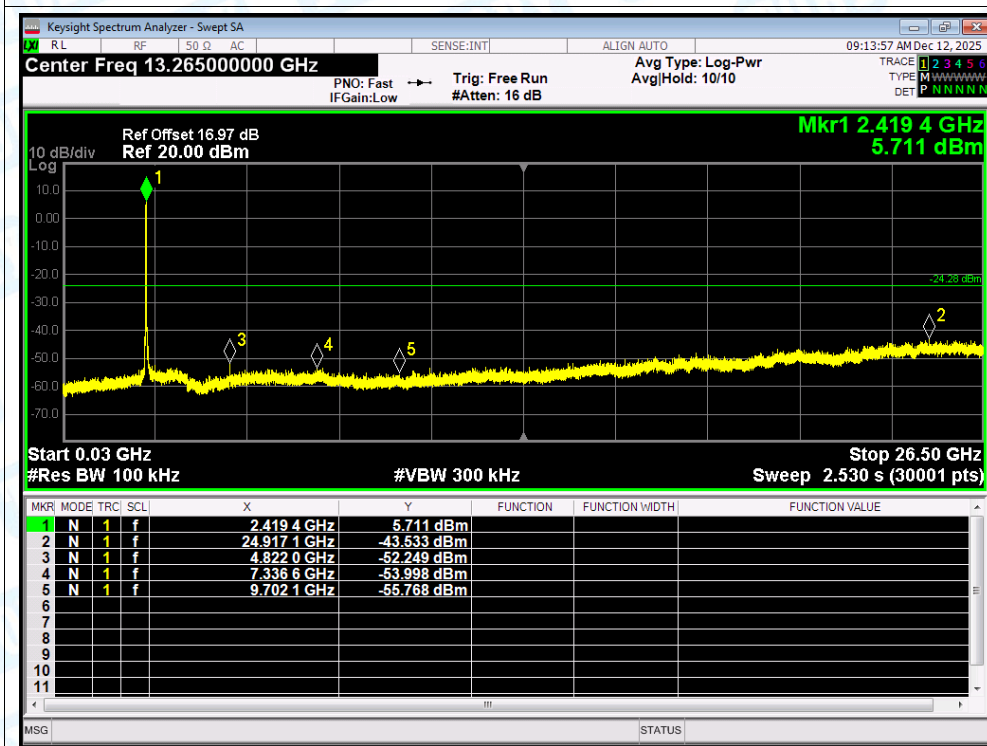
Tx. Spurious NVNT b 2462MHz Ant1 Emission



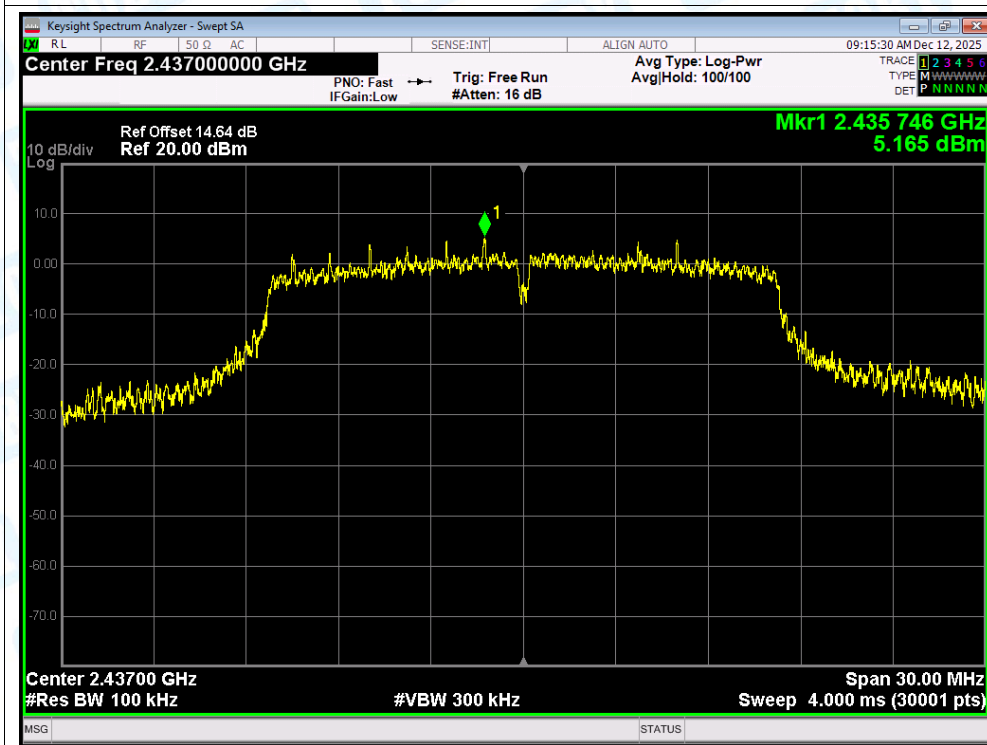
Tx. Spurious NVNT g 2412MHz Ant1 Ref



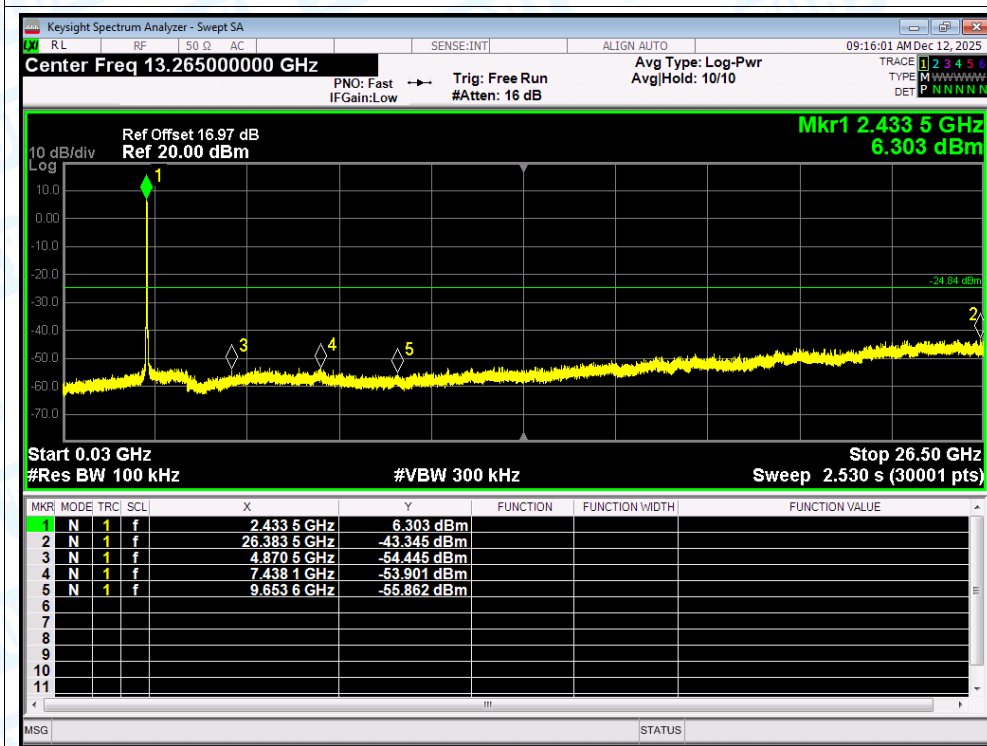
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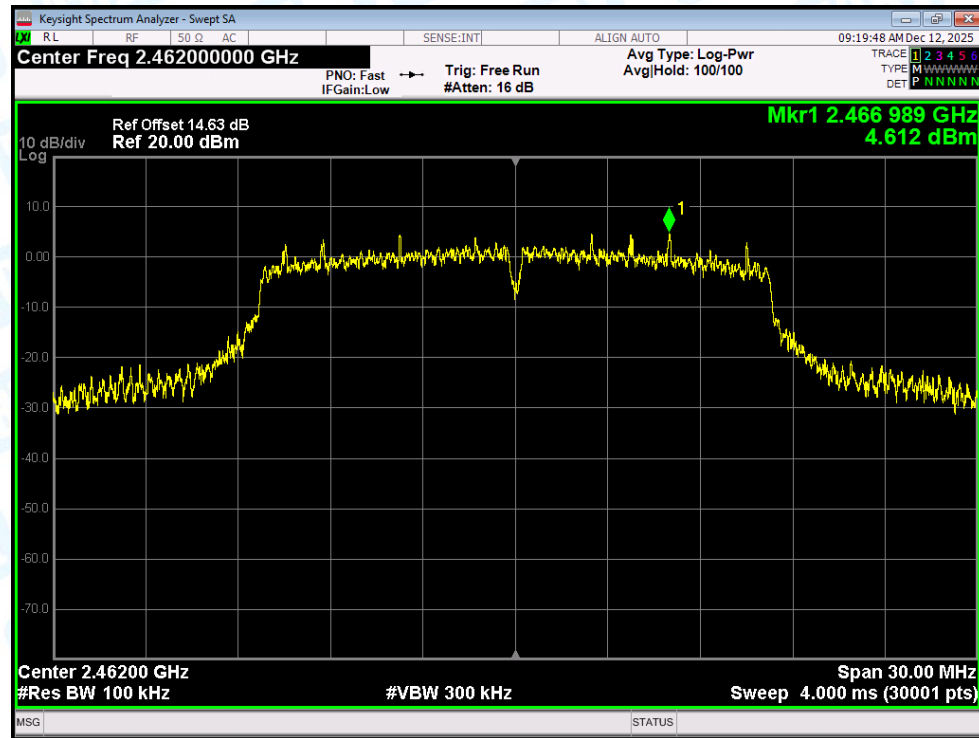
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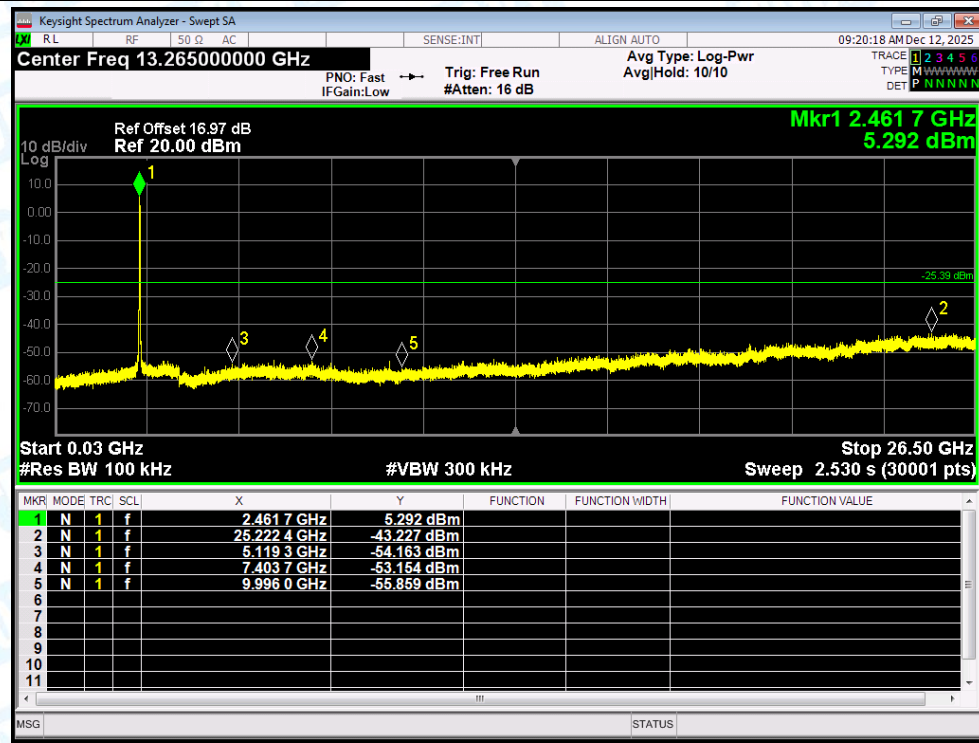
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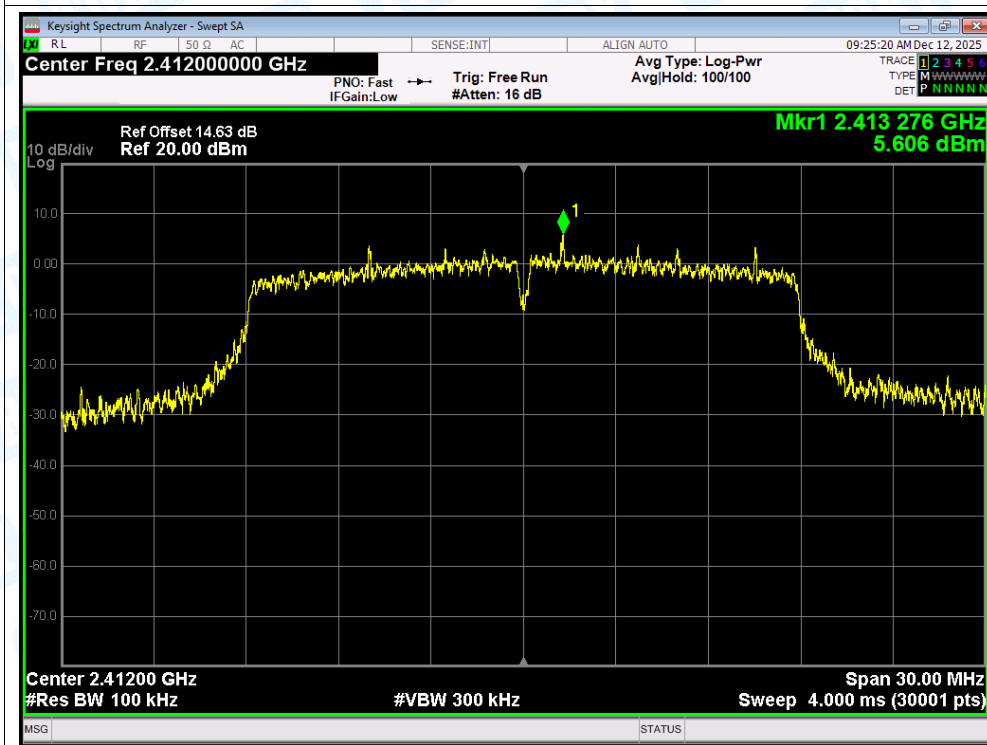
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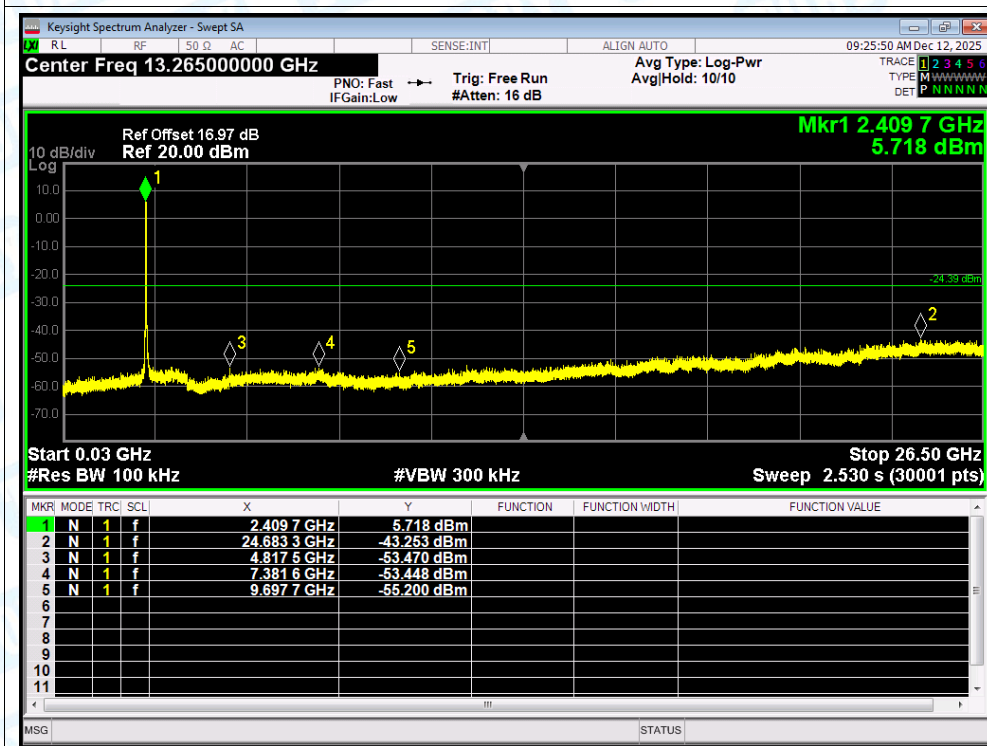
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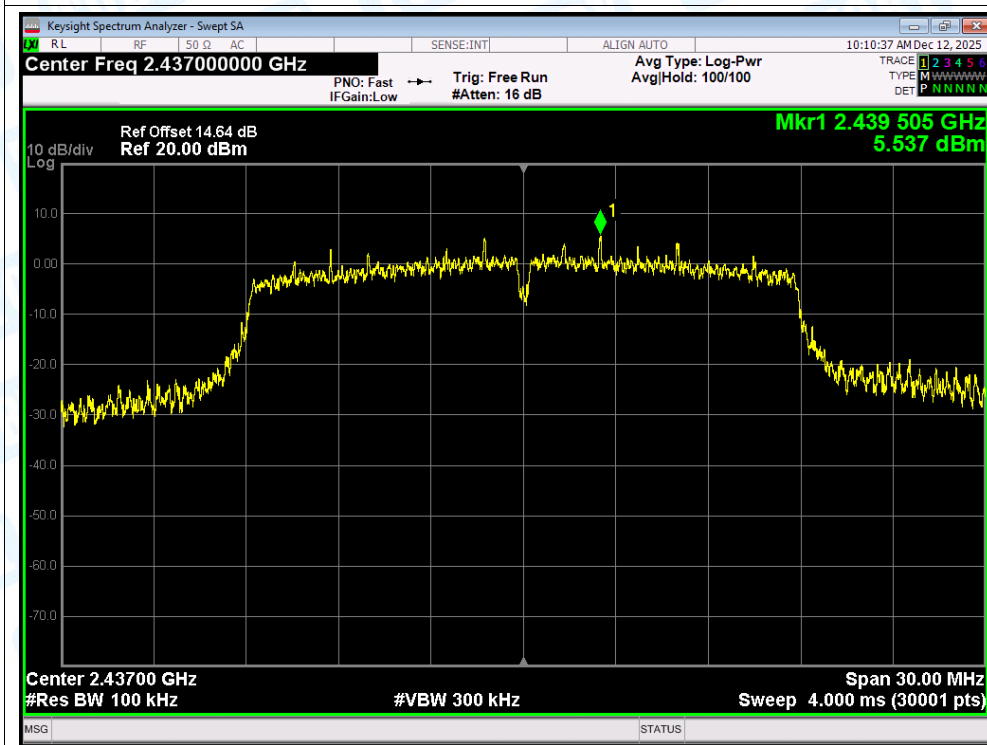
Tx. Spurious NVNT n(HT20) 2412MHz Ant1 Ref



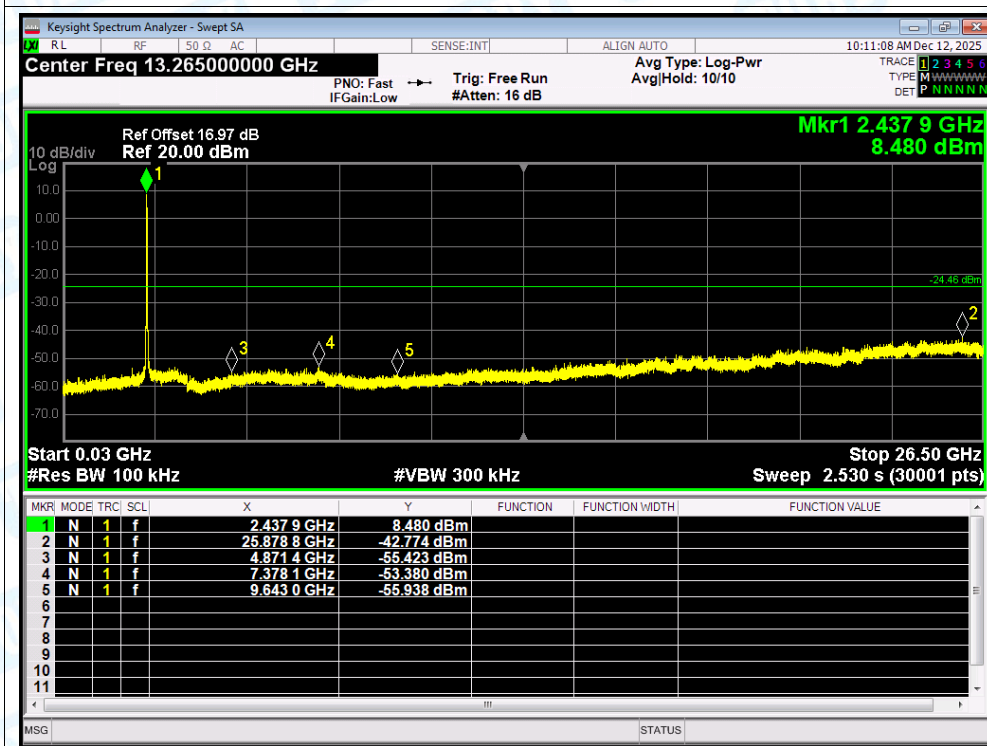
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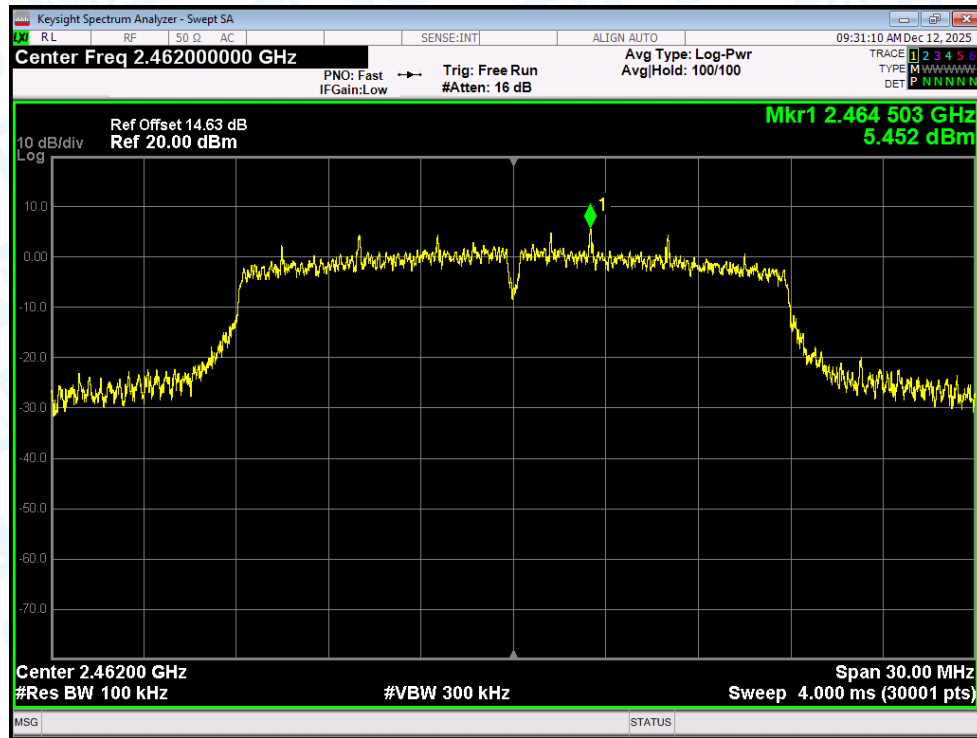
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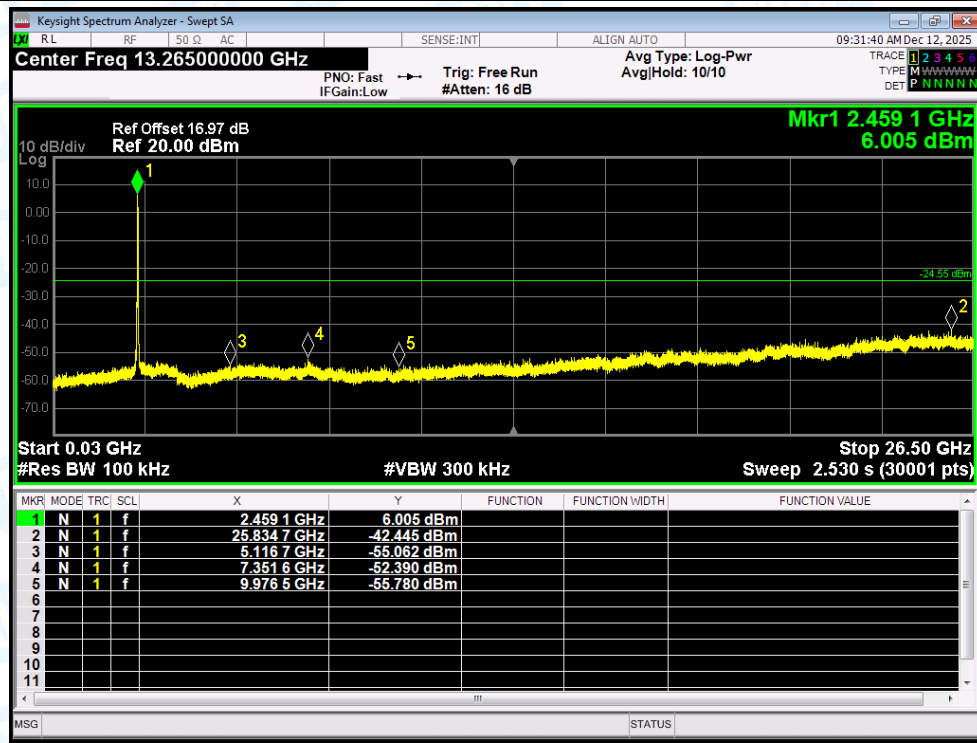
Tx. Spurious NVNT n(HT20) 2437MHz Ant1 Emission



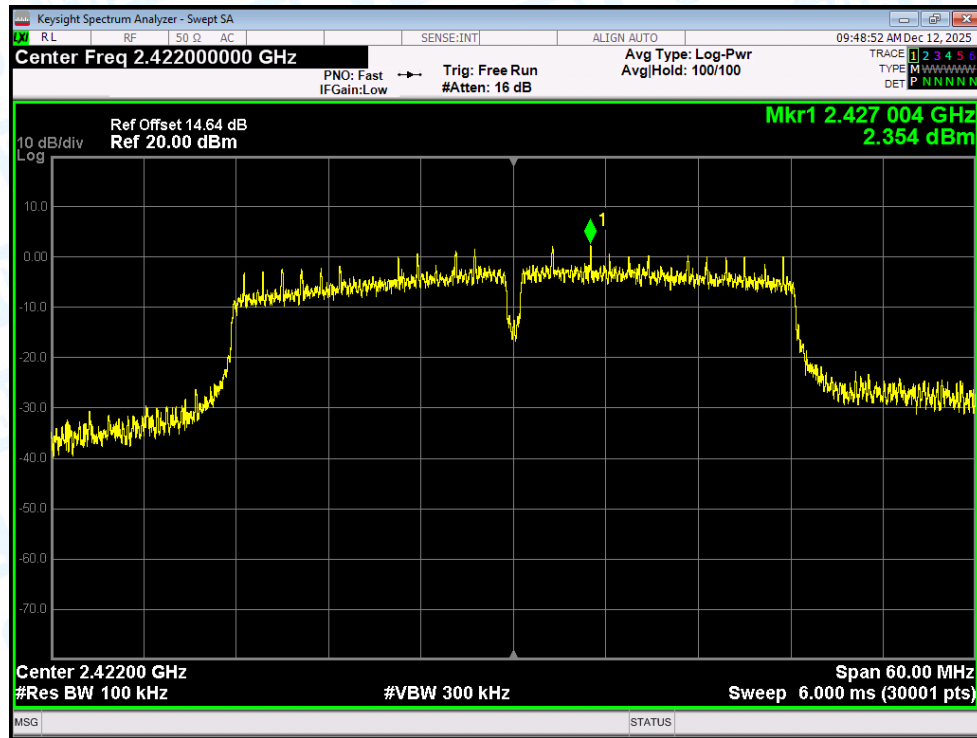
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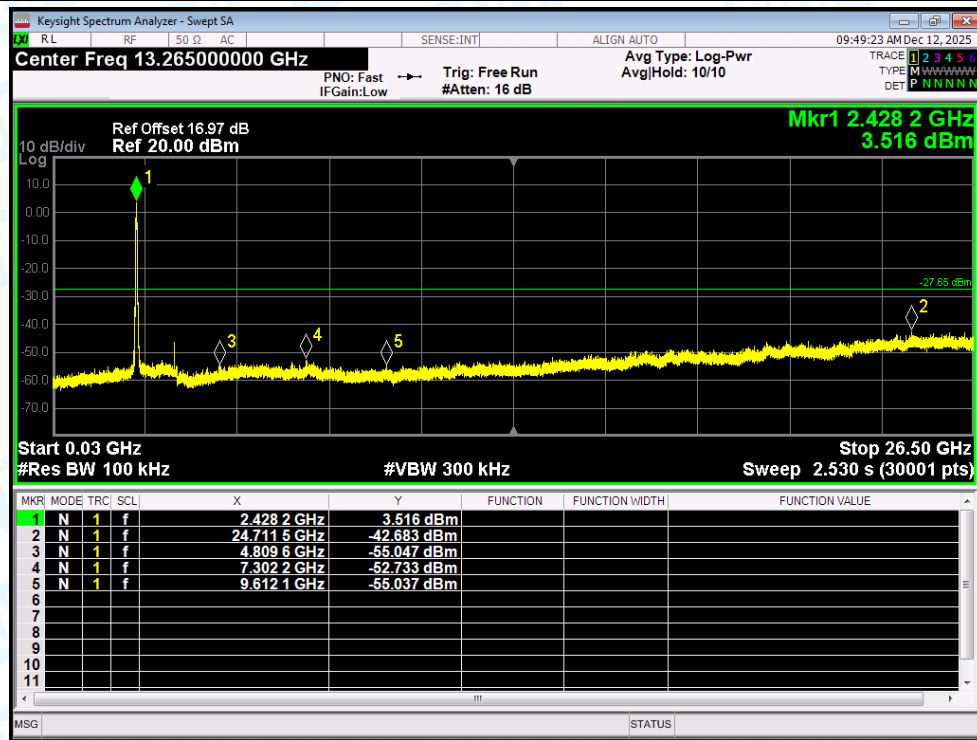
Tx. Spurious NVNT n(HT20) 2462MHz Ant1 Emission



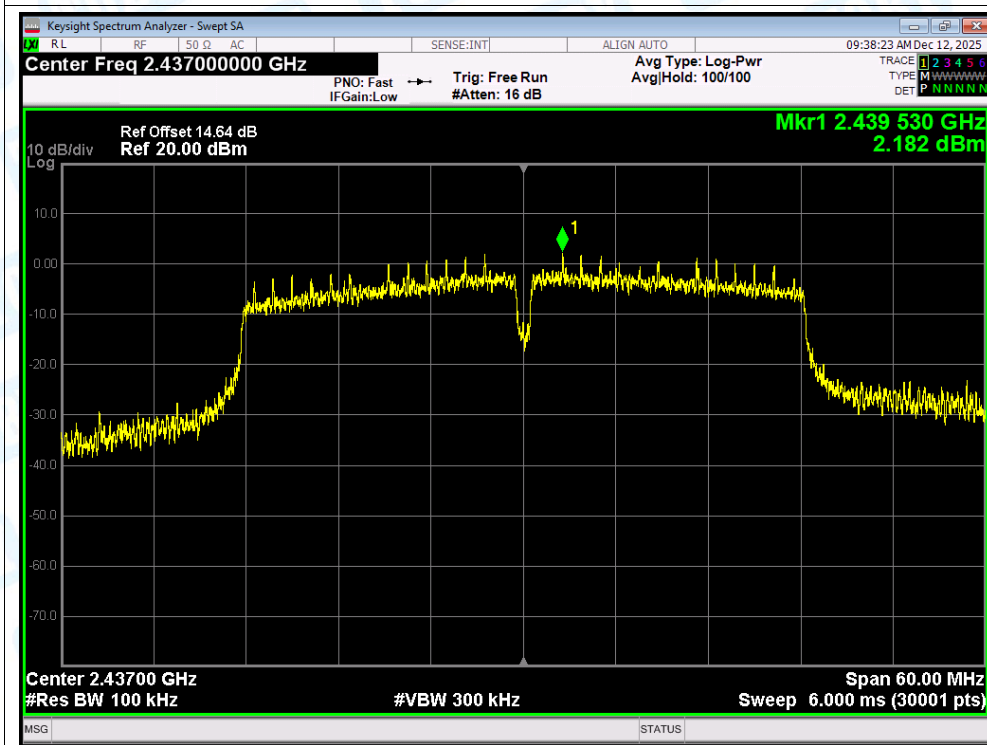
Tx. Spurious NVNT n(HT40) 2422MHz Ant1 Ref



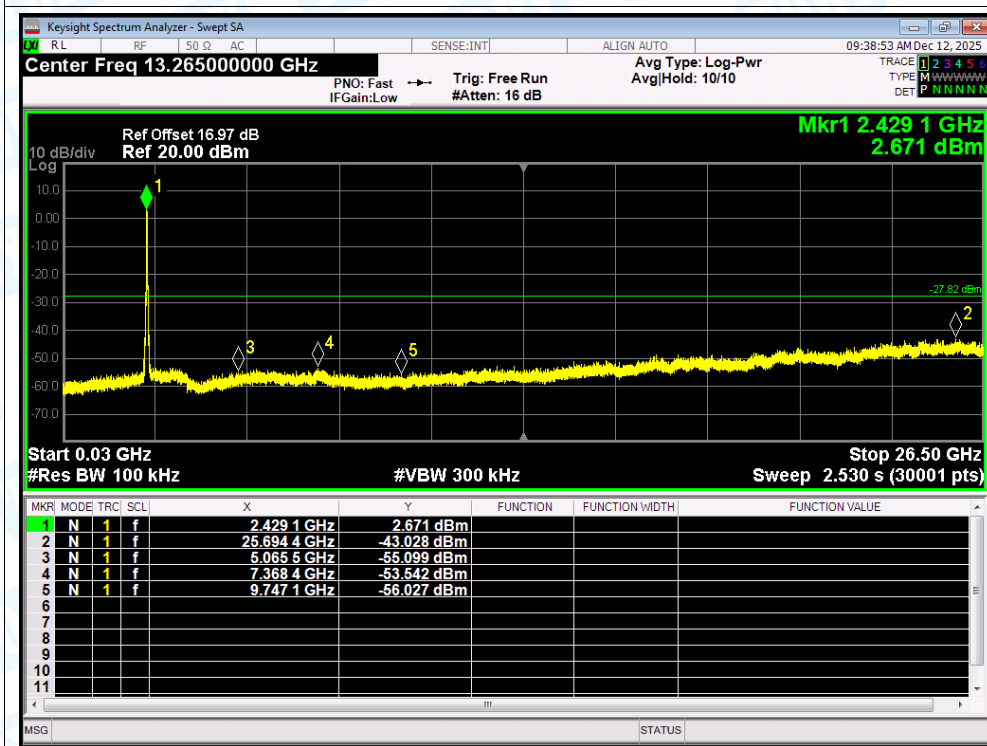
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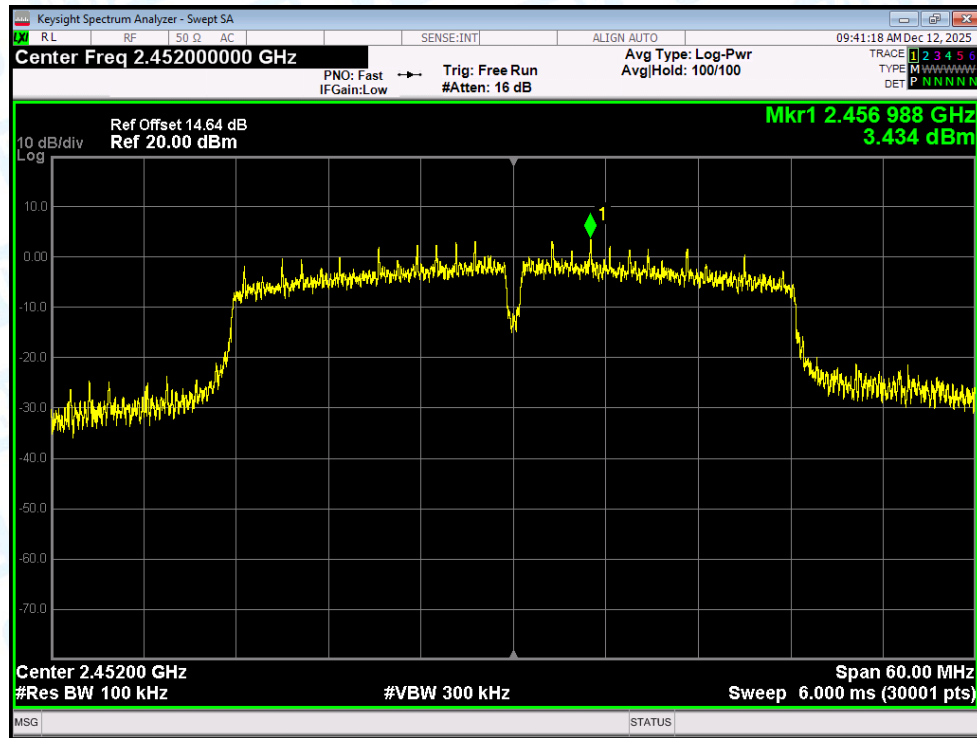
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Ref



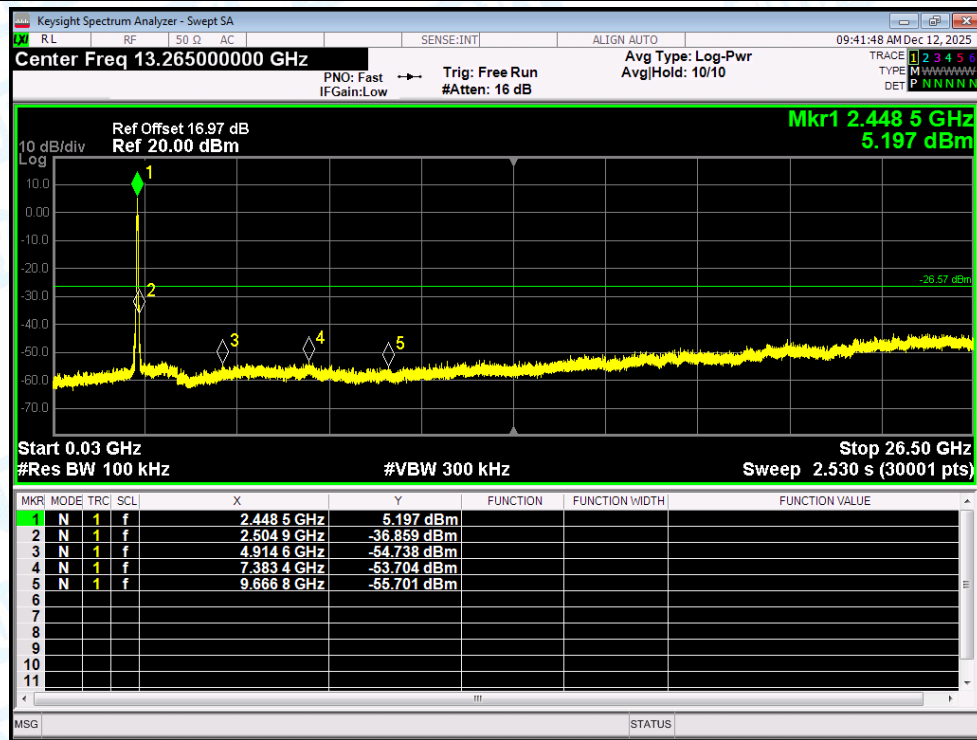
Tx. Spurious NVNT n(HT40) 2437MHz Ant1 Emission



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Ref



Tx. Spurious NVNT n(HT40) 2452MHz Ant1 Emission



-----END OF THE REPORT-----