

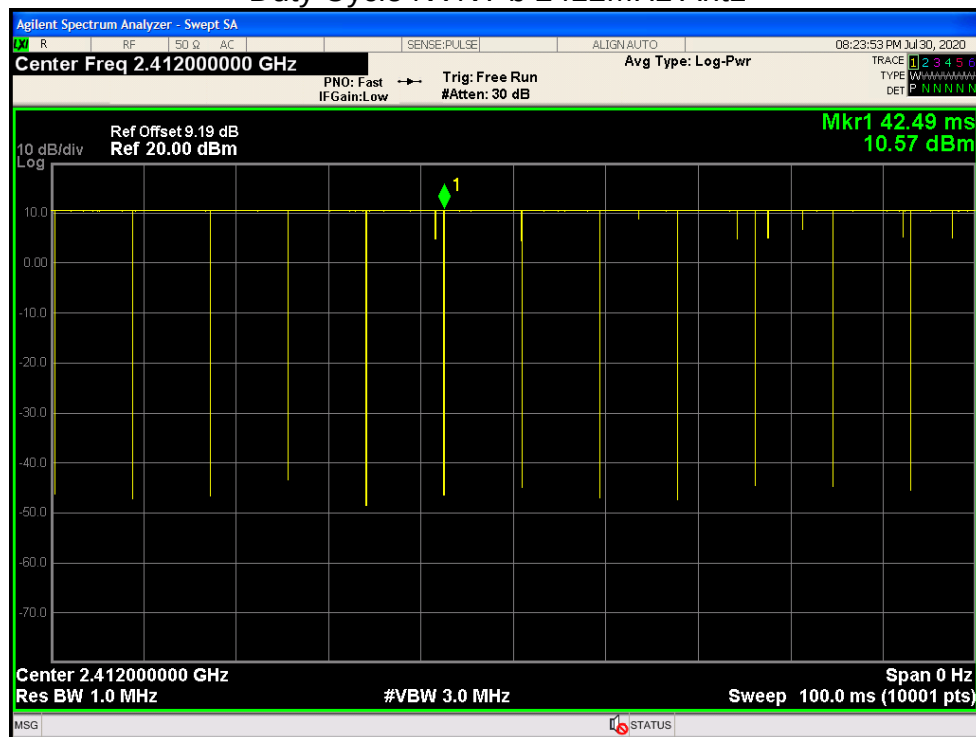
802.11n(HT40)									
Test channel: Lowest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	52.36	30.87	6.83	2.46	41.83	50.69	74.00	-23.31	Vertical
4844.00	51.47	30.87	6.83	2.46	41.83	49.80	74.00	-24.20	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4844.00	42.62	30.87	6.83	2.46	41.83	40.95	54.00	-13.05	Vertical
4844.00	40.33	30.87	6.83	2.46	41.83	38.66	54.00	-15.34	Horizontal
Test channel: Middle channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	51.49	30.93	6.85	2.47	41.84	49.90	74.00	-24.10	Vertical
4874.00	52.66	30.93	6.85	2.47	41.84	51.07	74.00	-22.93	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4874.00	41.52	30.93	6.85	2.47	41.84	39.93	54.00	-14.07	Vertical
4874.00	42.34	30.93	6.85	2.47	41.84	40.75	54.00	-13.25	Horizontal
Test channel: Highest channel									
Detector: Peak Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	52.26	30.99	6.87	2.48	41.85	50.75	74.00	-23.25	Vertical
4904.00	51.49	30.99	6.87	2.48	41.85	49.98	74.00	-24.02	Horizontal
Detector: Average Value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Aux Factor (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4904.00	40.25	30.99	6.87	2.48	41.85	38.74	54.00	-15.26	Vertical
4904.00	41.17	30.99	6.87	2.48	41.85	39.66	54.00	-14.34	Horizontal
Remark:									
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.									
2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.									

Appendix A – Wi-Fi

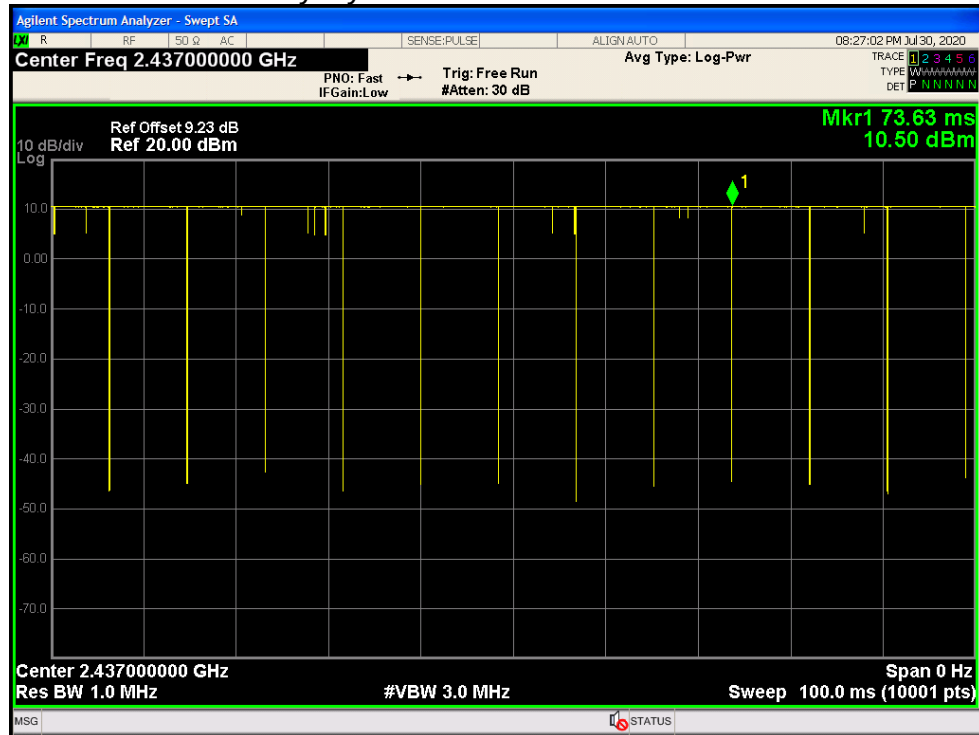
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	99.78	0.01
NVNT	b	2437	Ant1	99.79	0.01
NVNT	b	2462	Ant1	99.8	0.01
NVNT	g	2412	Ant1	98.32	0.07
NVNT	g	2437	Ant1	98.33	0.07
NVNT	g	2462	Ant1	98.33	0.07
NVNT	n20	2412	Ant1	98.21	0.08
NVNT	n20	2437	Ant1	98.2	0.08
NVNT	n20	2462	Ant1	98.24	0.08
NVNT	n40	2422	Ant1	96.58	0.15
NVNT	n40	2437	Ant1	96.55	0.15
NVNT	n40	2452	Ant1	96.58	0.15

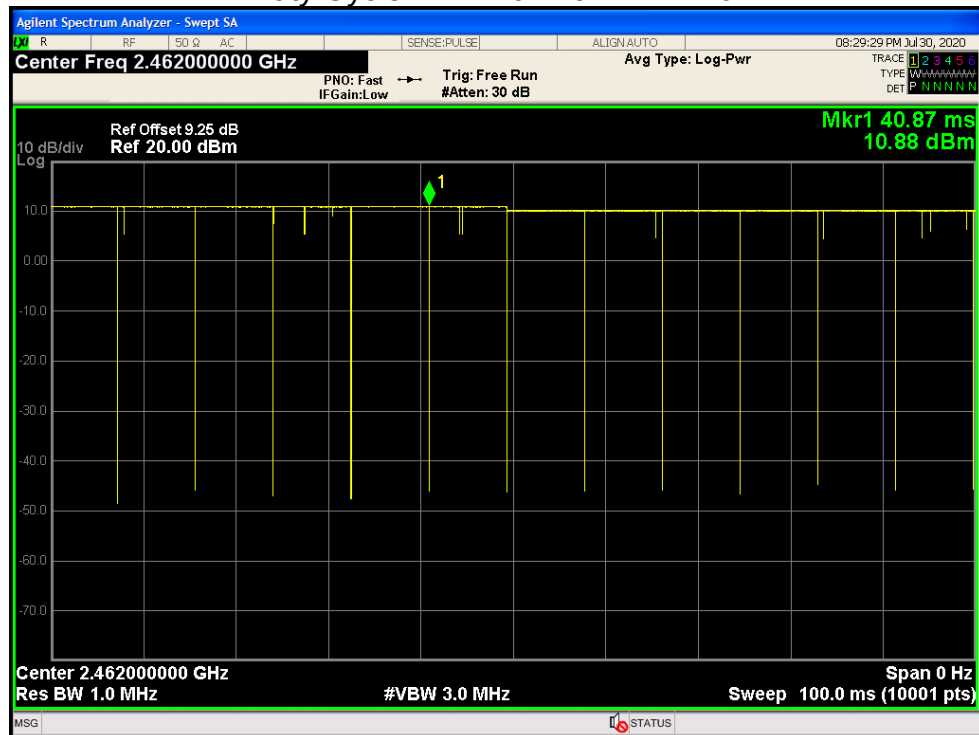
Duty Cycle NVNT b 2412MHz Ant1



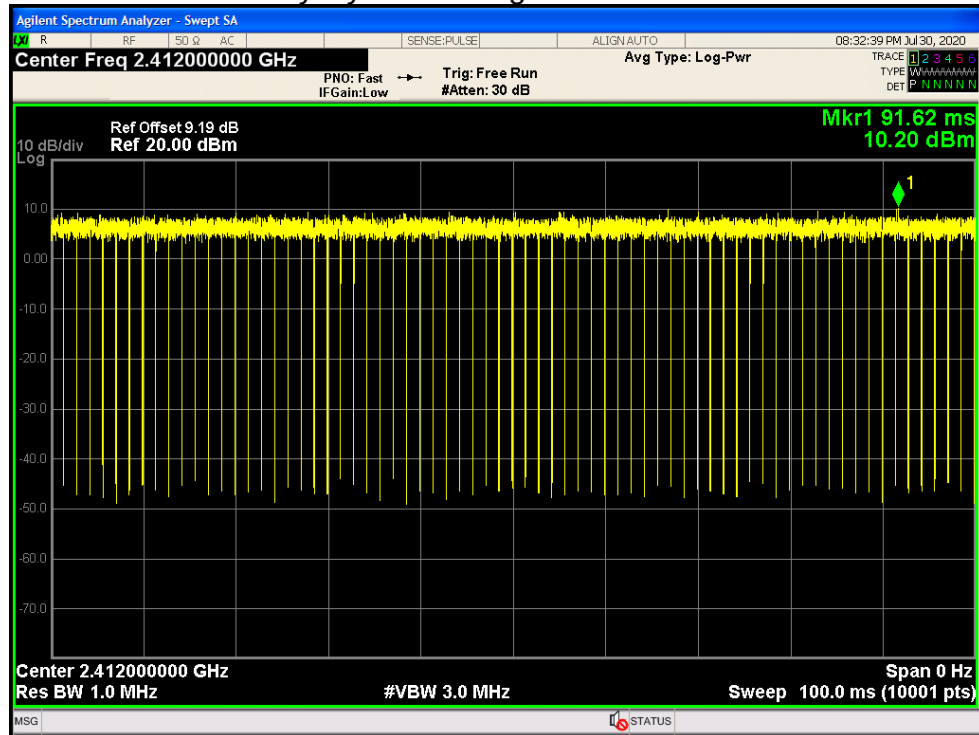
Duty Cycle NVNT b 2437MHz Ant1



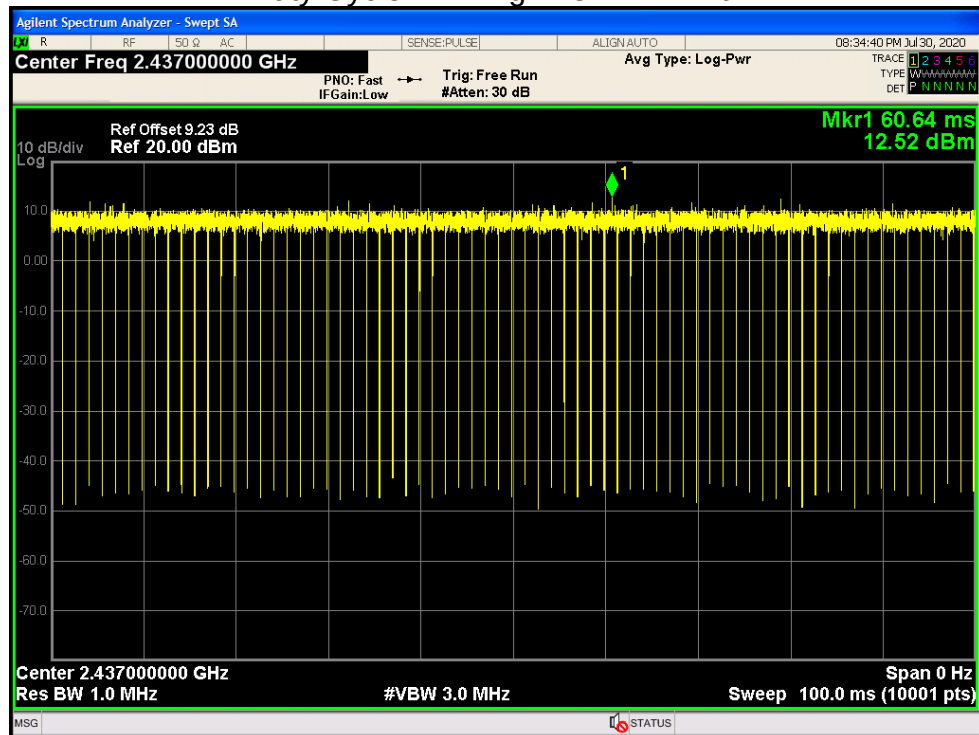
Duty Cycle NVNT b 2462MHz Ant1



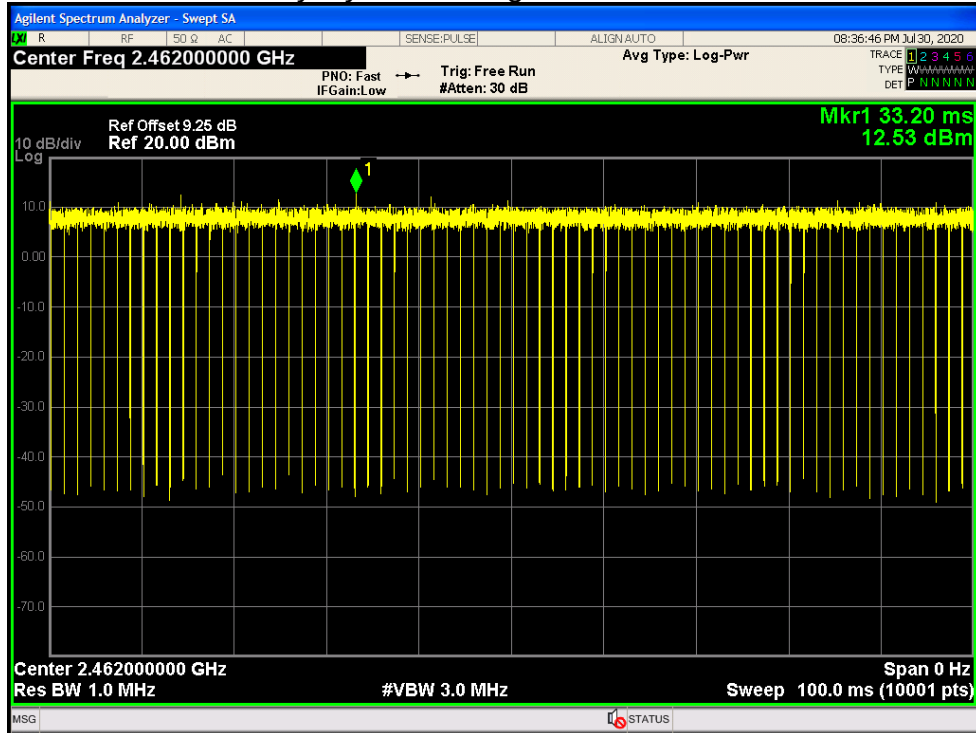
Duty Cycle NVNT g 2412MHz Ant1



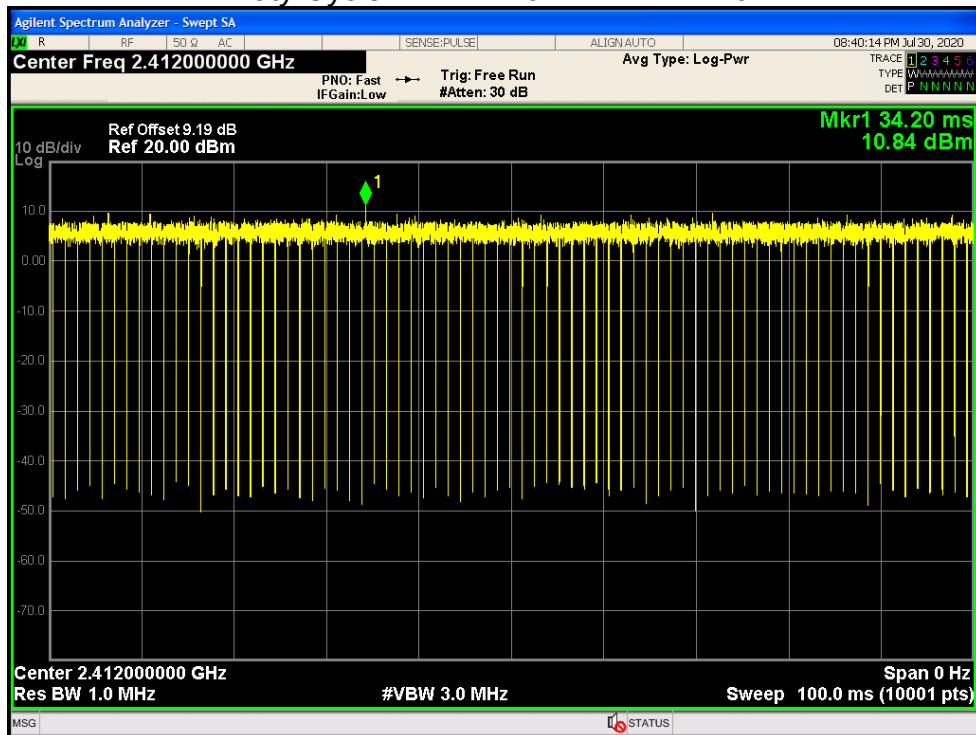
Duty Cycle NVNT g 2437MHz Ant1



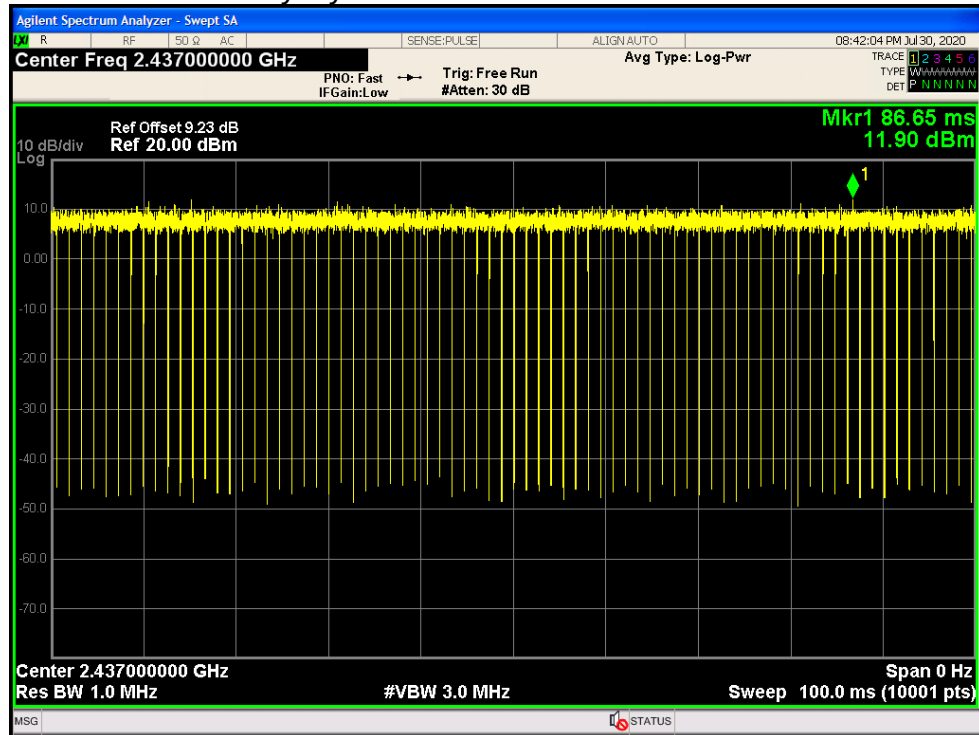
Duty Cycle NVNT g 2462MHz Ant1



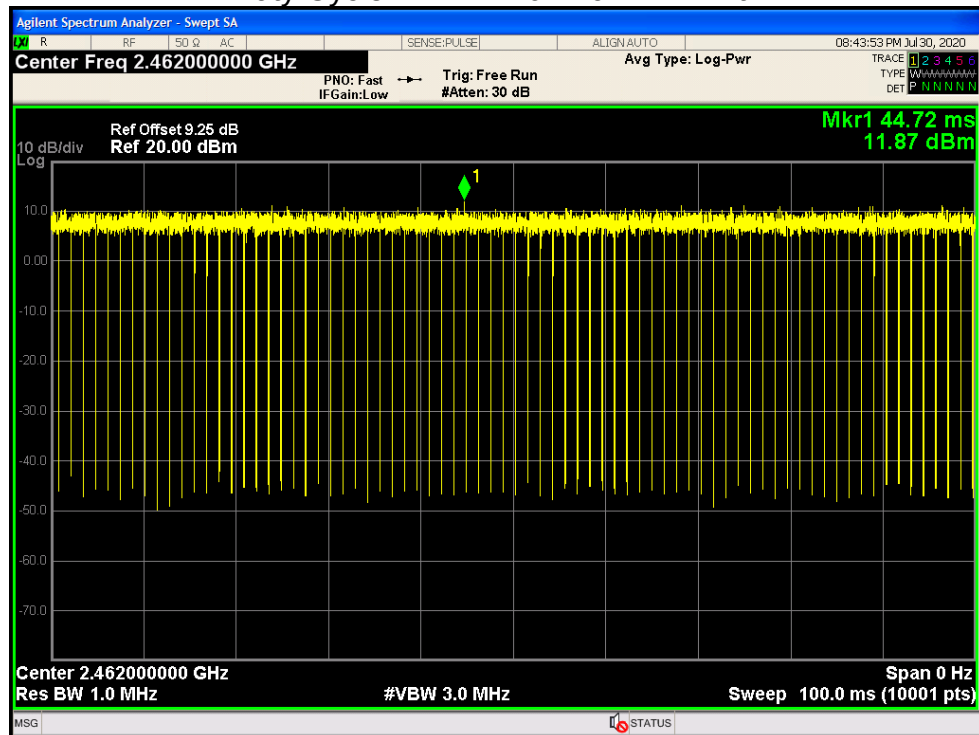
Duty Cycle NVNT n20 2412MHz Ant1



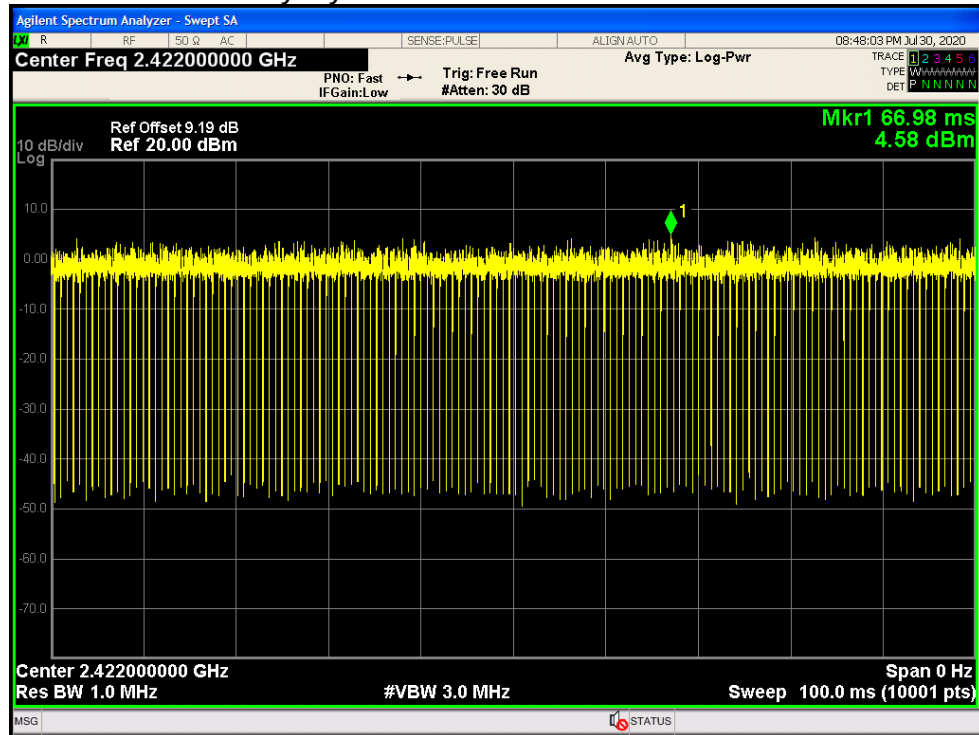
Duty Cycle NVNT n20 2437MHz Ant1



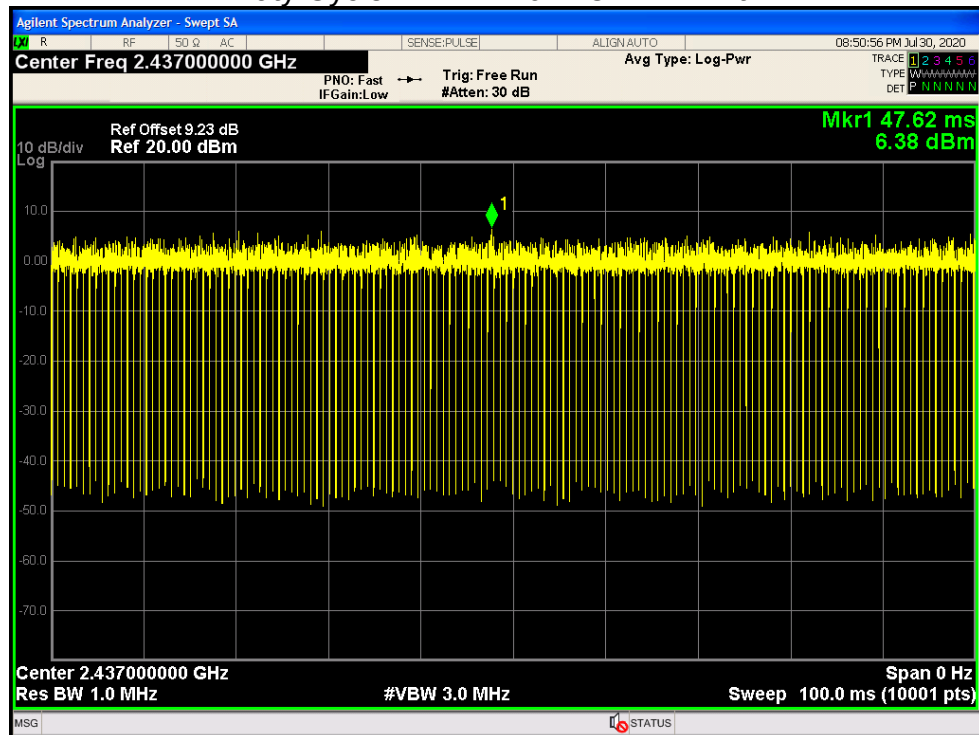
Duty Cycle NVNT n20 2462MHz Ant1



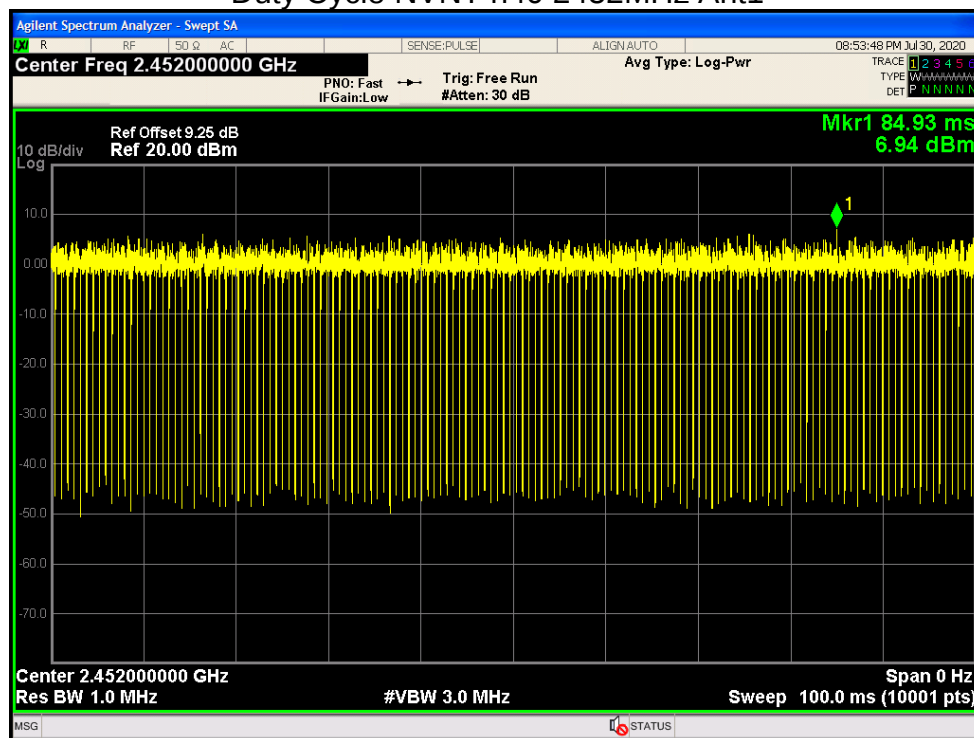
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



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	16.97	0.01	16.98	30	Pass
NVNT	b	2437	Ant1	17.04	0.01	17.05	30	Pass
NVNT	b	2462	Ant1	17.04	0.01	17.05	30	Pass
NVNT	g	2412	Ant1	13.44	0.07	13.51	30	Pass
NVNT	g	2437	Ant1	15.25	0.07	15.32	30	Pass
NVNT	g	2462	Ant1	14.85	0.07	14.92	30	Pass
NVNT	n20	2412	Ant1	13.15	0.08	13.23	30	Pass
NVNT	n20	2437	Ant1	15.09	0.08	15.17	30	Pass
NVNT	n20	2462	Ant1	14.88	0.08	14.96	30	Pass
NVNT	n40	2422	Ant1	13.12	0.15	13.27	30	Pass
NVNT	n40	2437	Ant1	14.61	0.15	14.76	30	Pass
NVNT	n40	2452	Ant1	14.48	0.15	14.63	30	Pass

-6dB Bandwidth

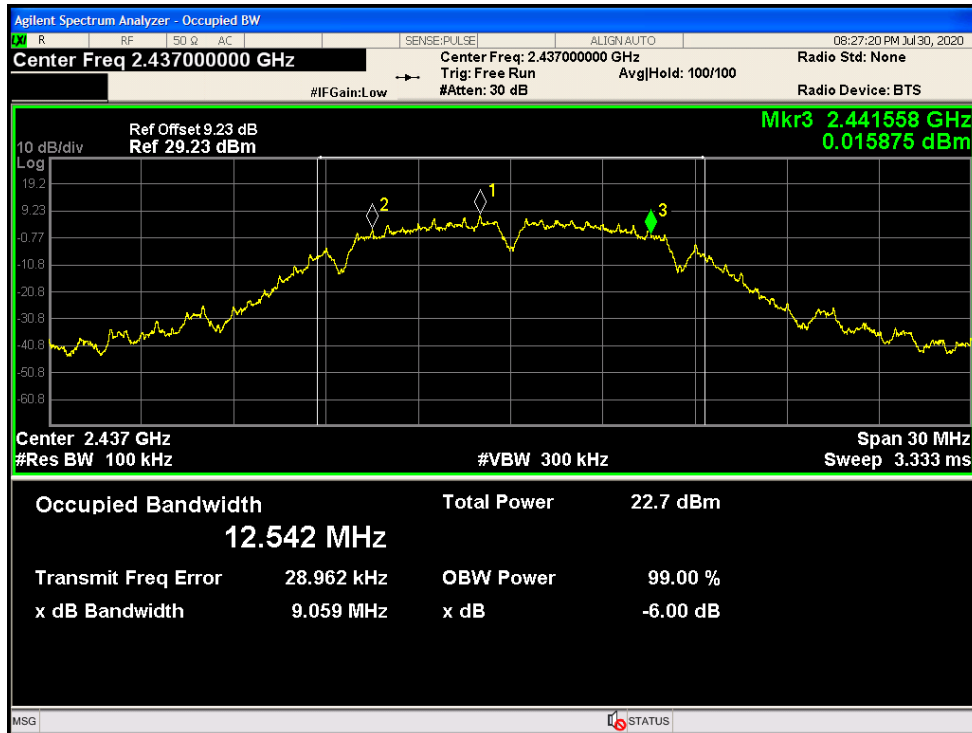
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.045	0.5	Pass
NVNT	b	2437	Ant1	9.059	0.5	Pass

NVNT	b	2462	Ant1	9.562	0.5	Pass
NVNT	g	2412	Ant1	15.007	0.5	Pass
NVNT	g	2437	Ant1	15.799	0.5	Pass
NVNT	g	2462	Ant1	14.203	0.5	Pass
NVNT	n20	2412	Ant1	15.008	0.5	Pass
NVNT	n20	2437	Ant1	15.08	0.5	Pass
NVNT	n20	2462	Ant1	15.083	0.5	Pass
NVNT	n40	2422	Ant1	35.136	0.5	Pass
NVNT	n40	2437	Ant1	35.144	0.5	Pass
NVNT	n40	2452	Ant1	35.158	0.5	Pass

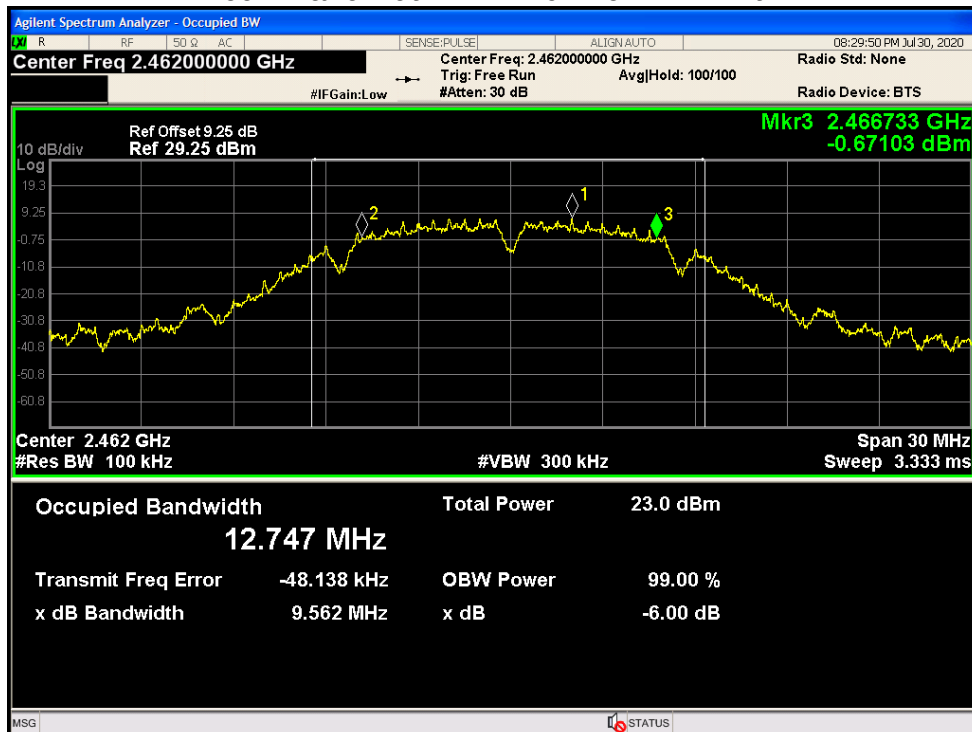
-6dB Bandwidth NVNT b 2412MHz Ant1



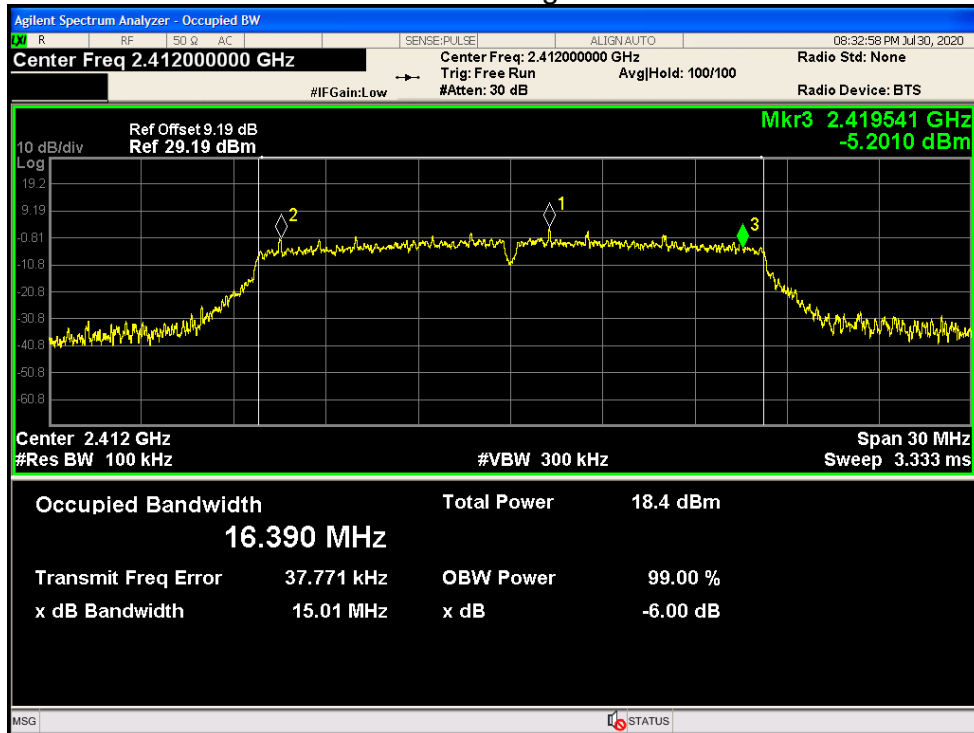
-6dB Bandwidth NVNT b 2437MHz Ant1



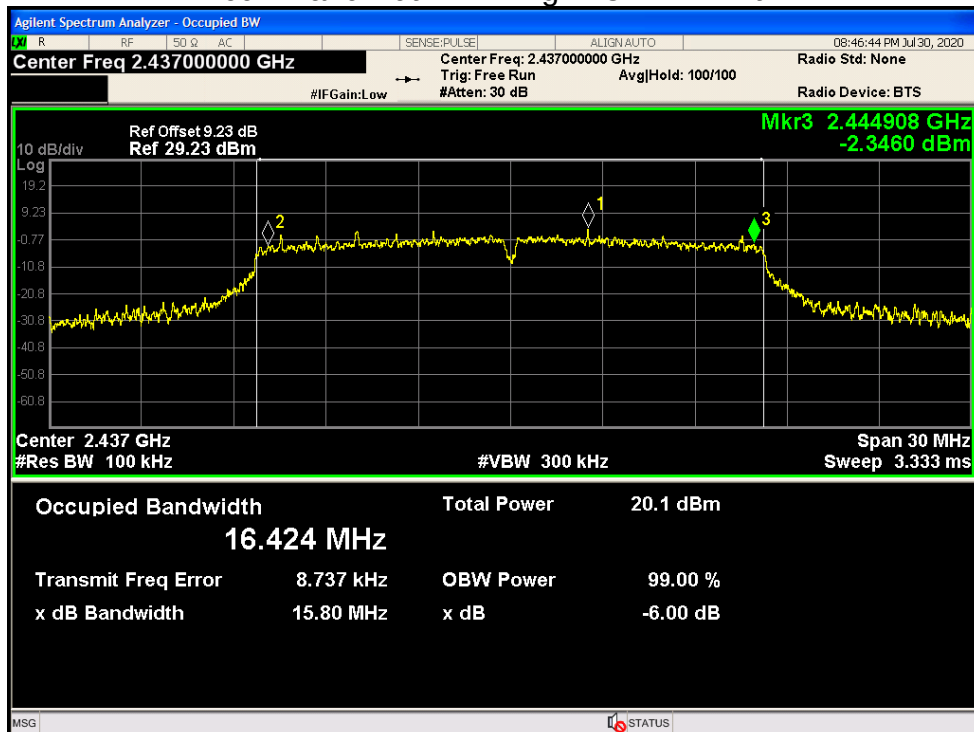
-6dB Bandwidth NVNT b 2462MHz Ant1



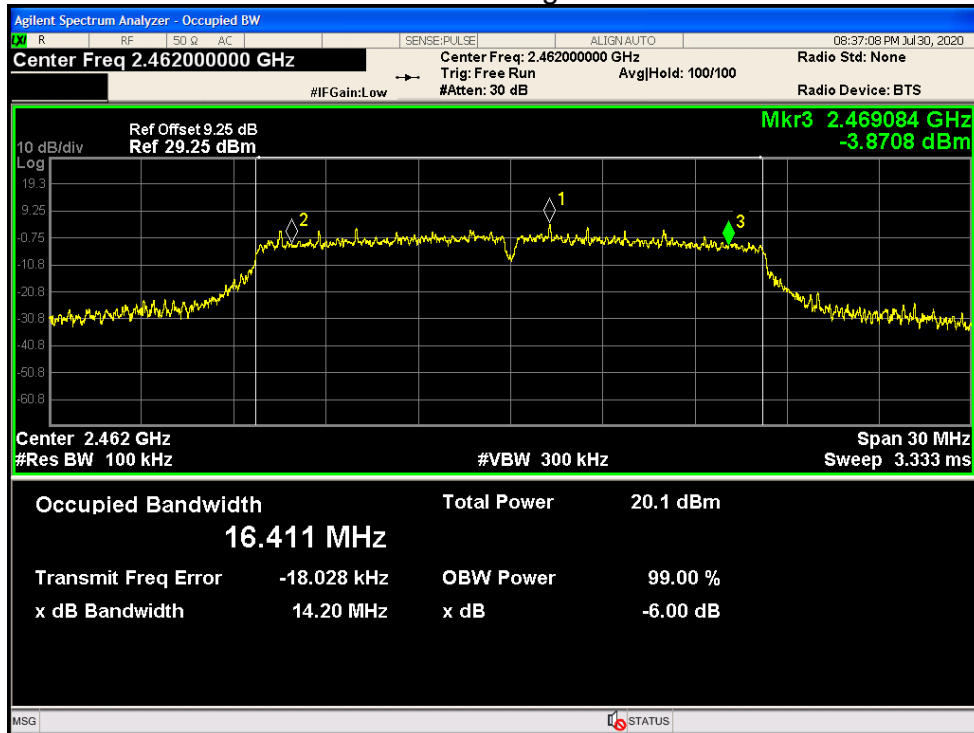
-6dB Bandwidth NVNT g 2412MHz Ant1



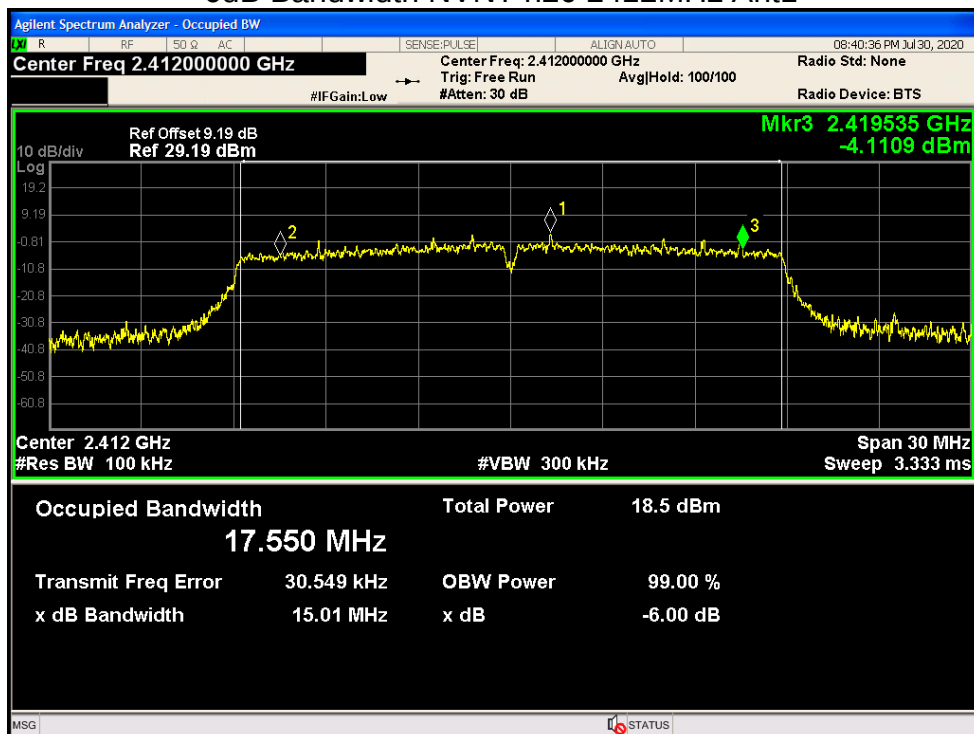
-6dB Bandwidth NVNT g 2437MHz Ant1



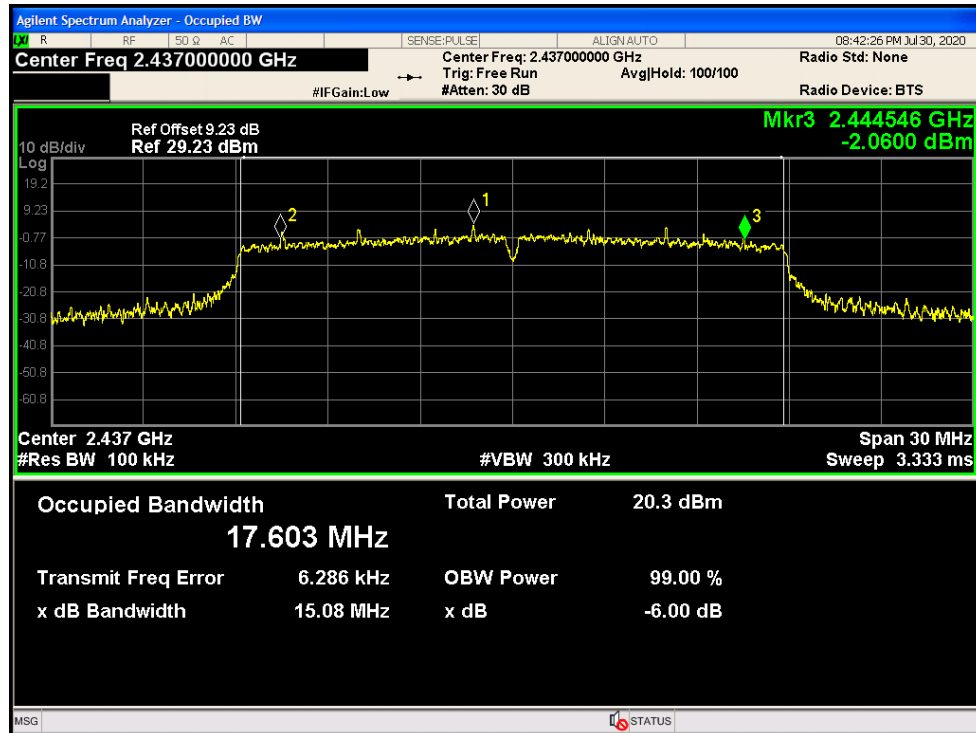
-6dB Bandwidth NVNT g 2462MHz Ant1



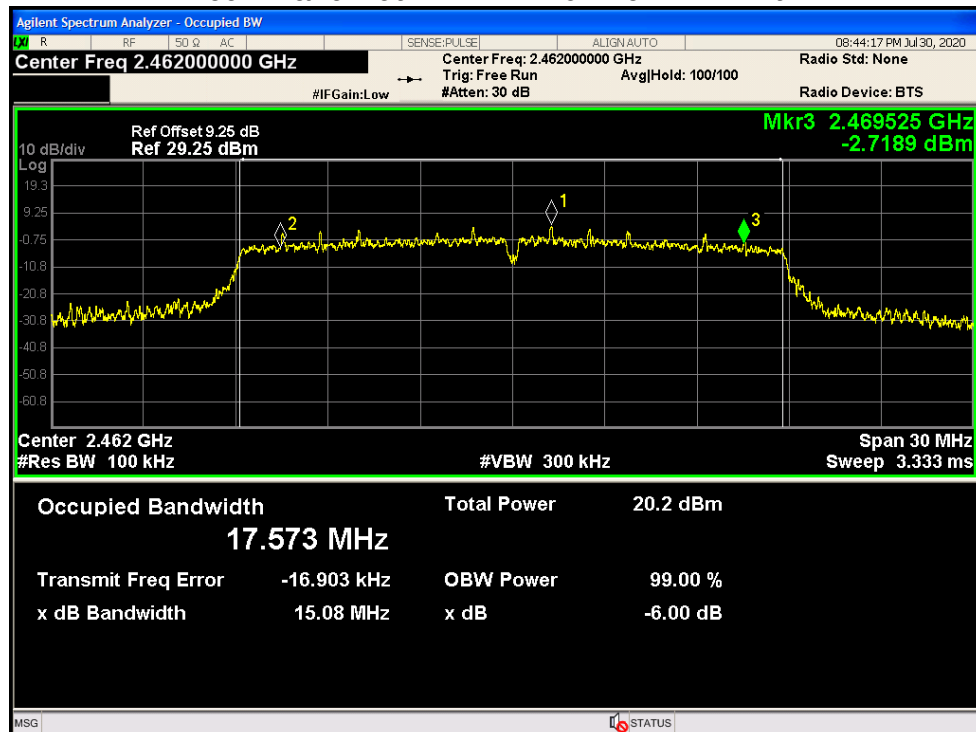
-6dB Bandwidth NVNT n20 2412MHz Ant1



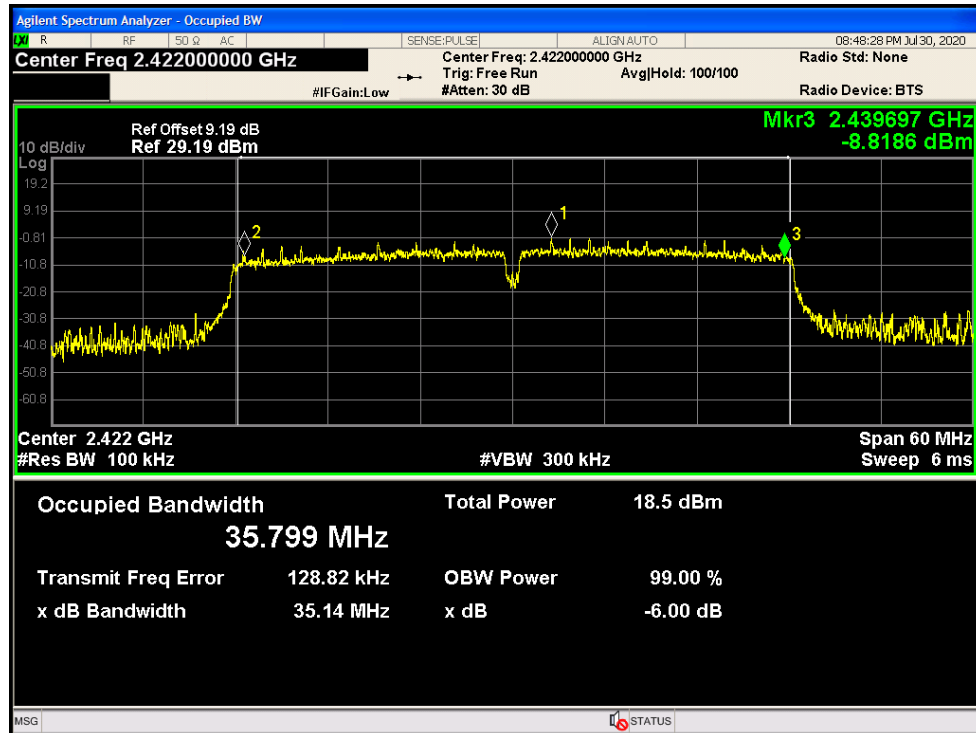
-6dB Bandwidth NVNT n20 2437MHz Ant1



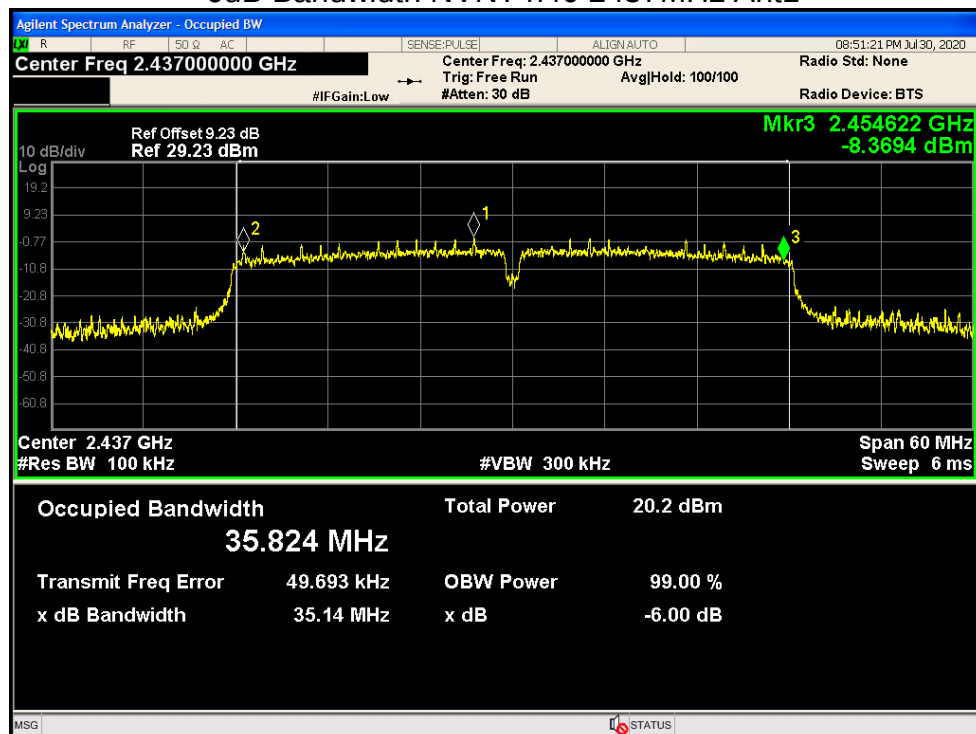
-6dB Bandwidth NVNT n20 2462MHz Ant1



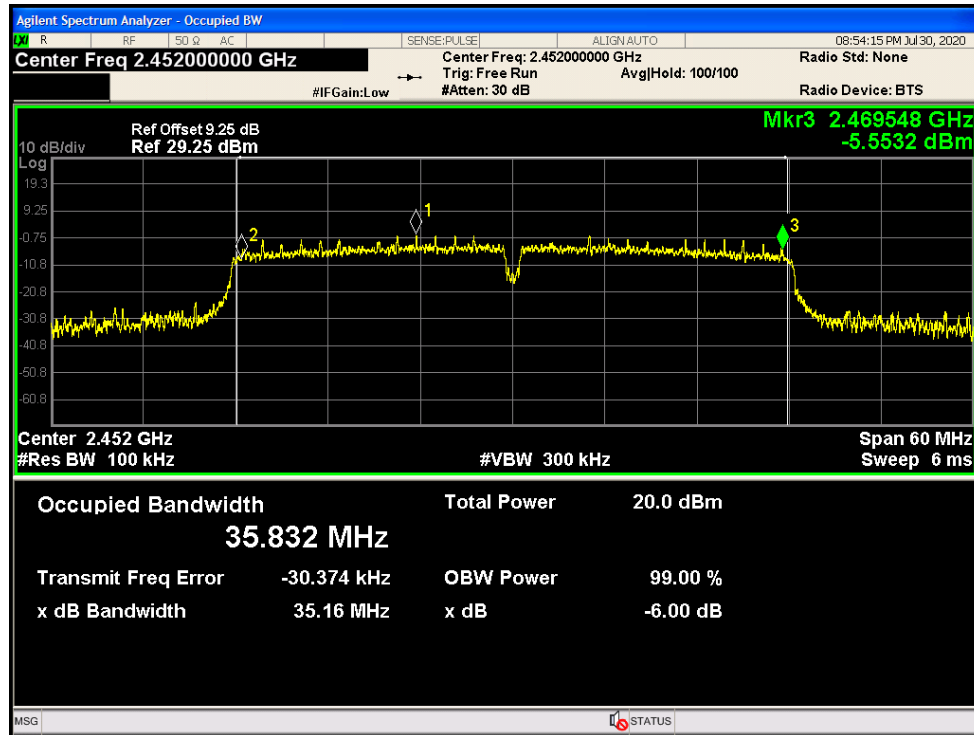
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



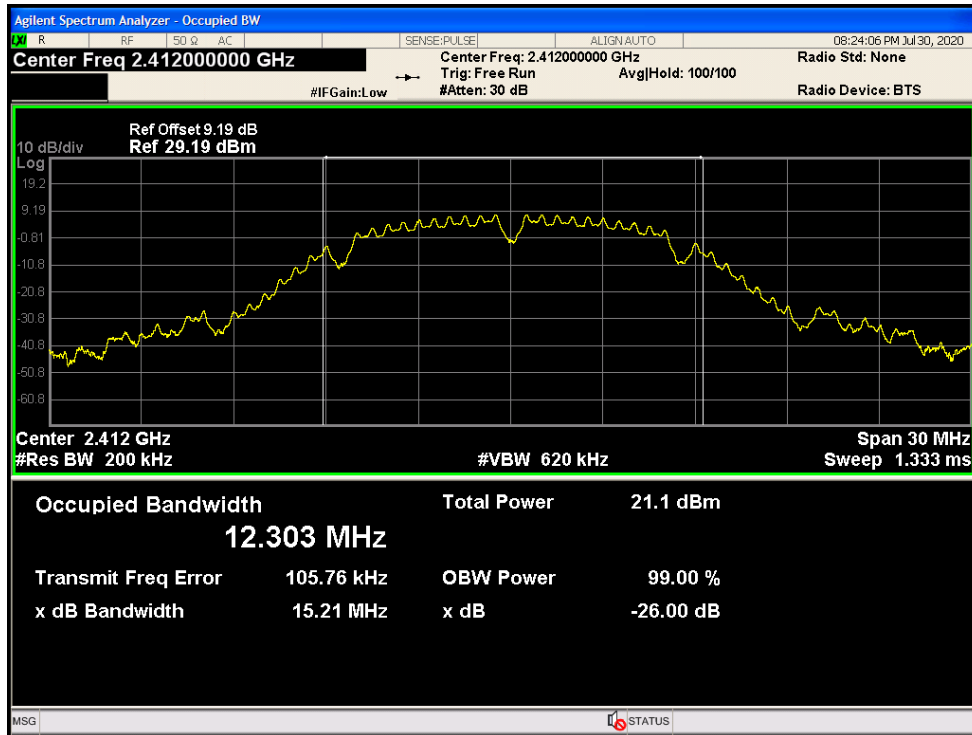
-6dB Bandwidth NVNT n40 2452MHz Ant1



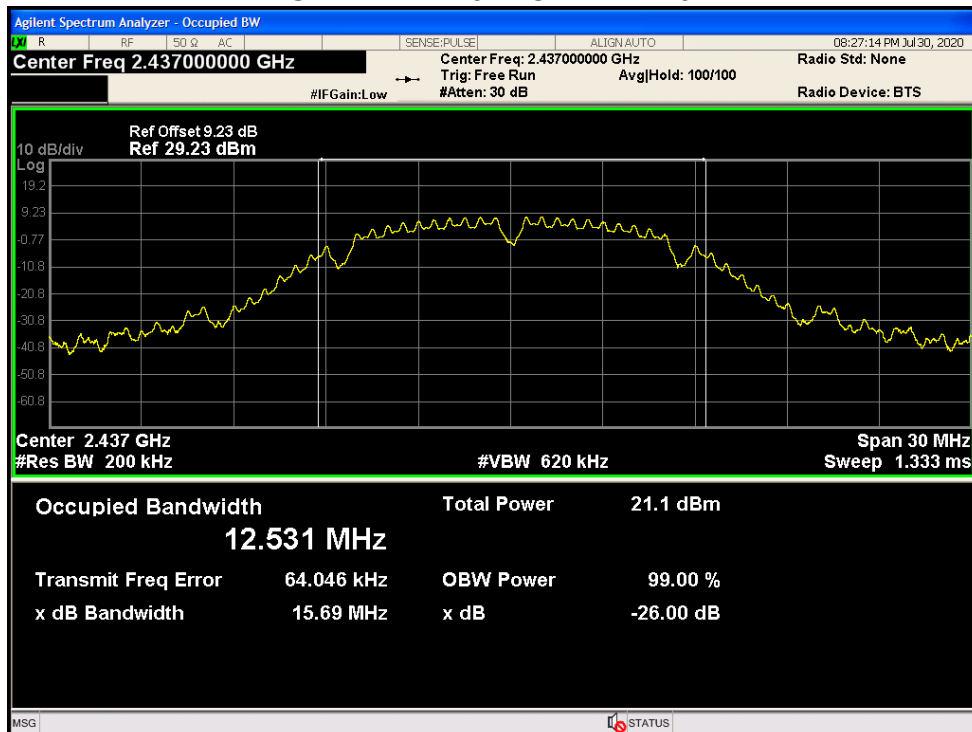
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.30346063
NVNT	b	2437	Ant1	12.53135771
NVNT	b	2462	Ant1	12.76994008
NVNT	g	2412	Ant1	16.4495255
NVNT	g	2437	Ant1	16.56220717
NVNT	g	2462	Ant1	16.54636564
NVNT	n20	2412	Ant1	17.58596233
NVNT	n20	2437	Ant1	17.60435736
NVNT	n20	2462	Ant1	17.60106046
NVNT	n40	2422	Ant1	35.92048676
NVNT	n40	2437	Ant1	35.99580783
NVNT	n40	2452	Ant1	35.95015932

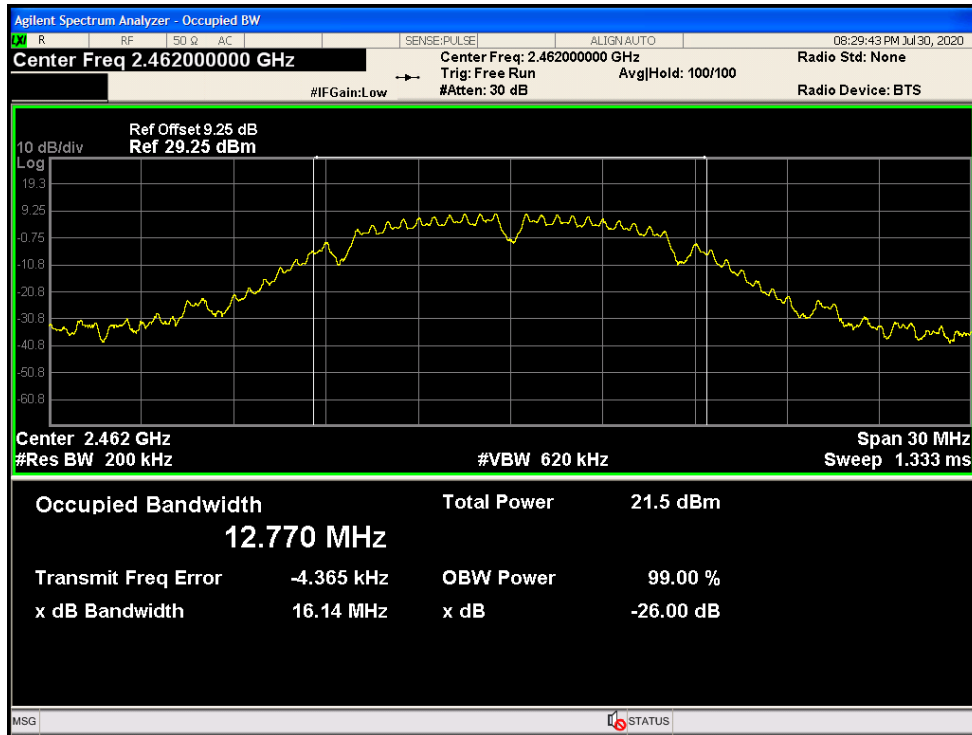
OBW NVNT b 2412MHz Ant1



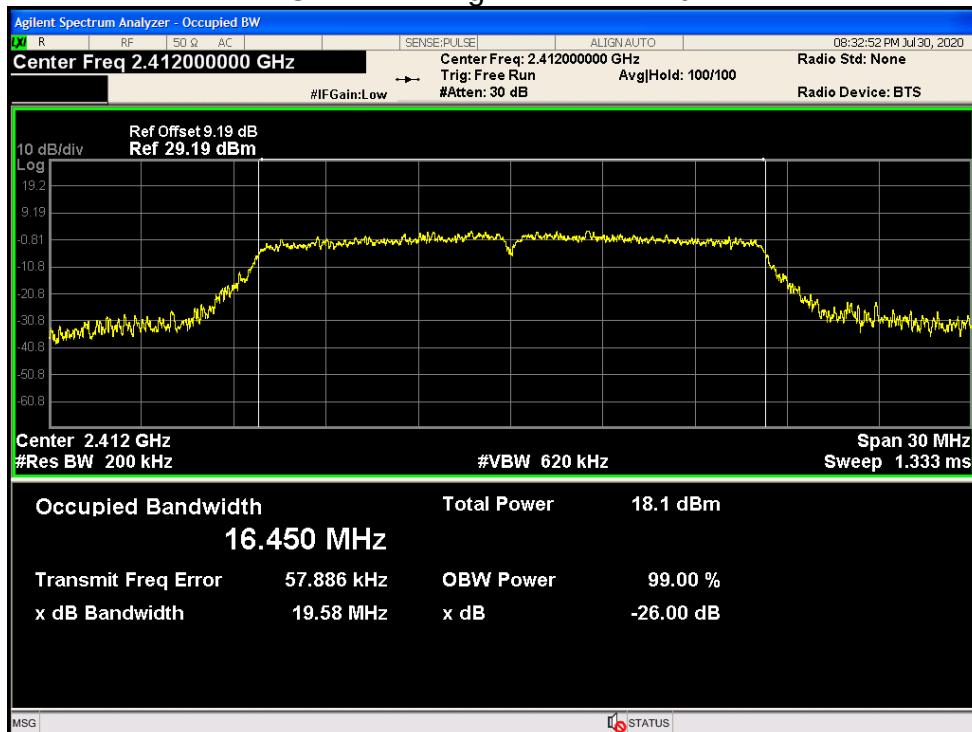
OBW NVNT b 2437MHz Ant1



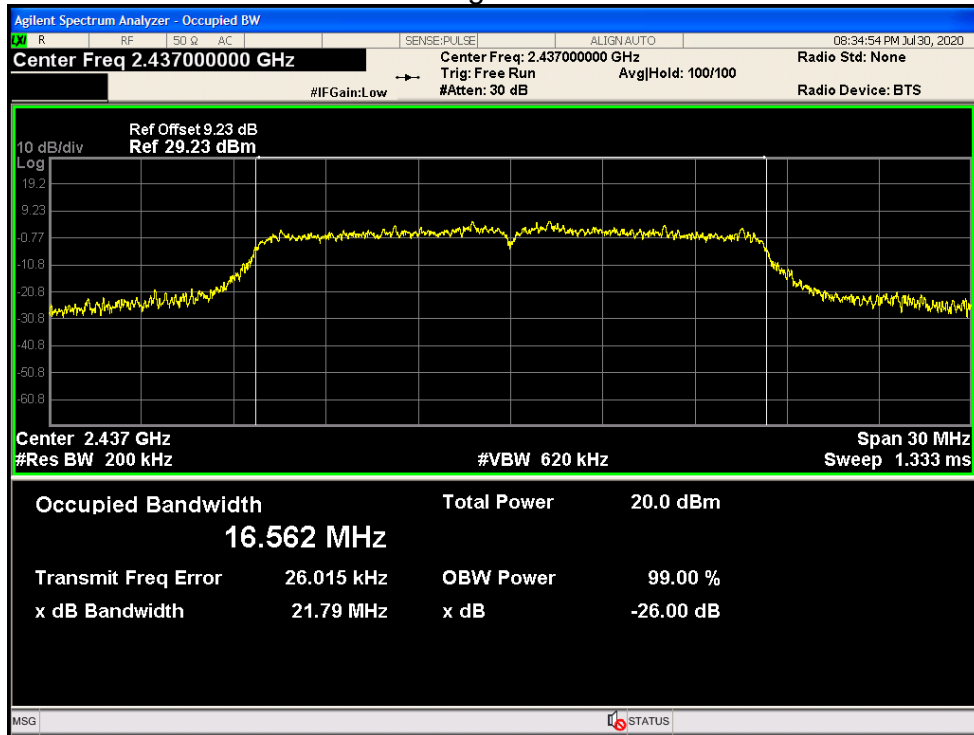
OBW NVNT b 2462MHz Ant1



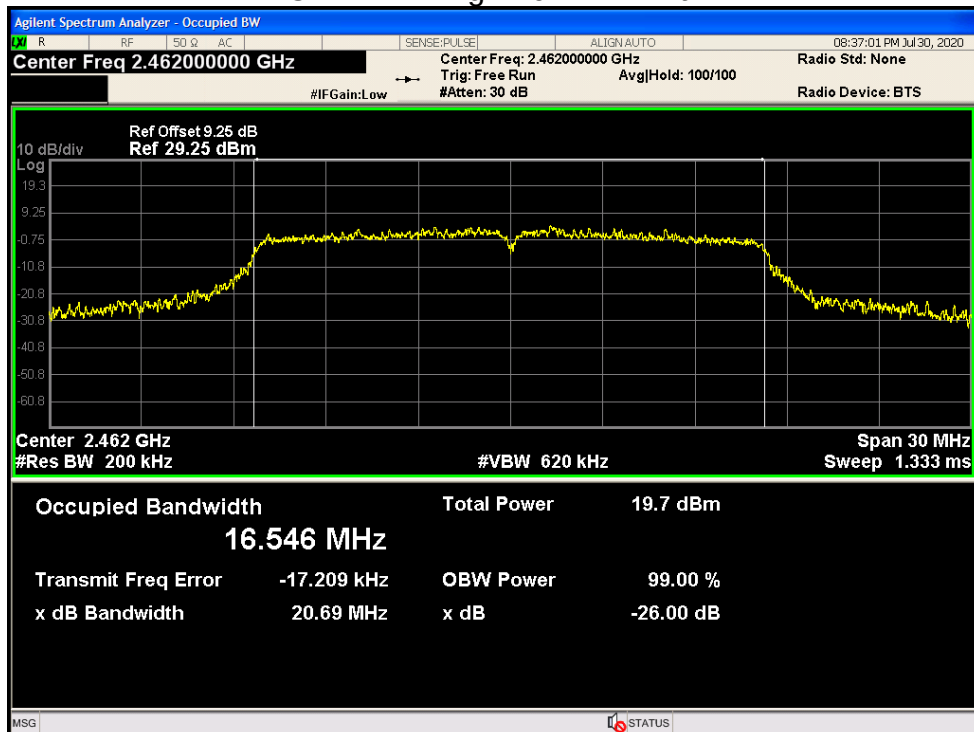
OBW NVNT g 2412MHz Ant1



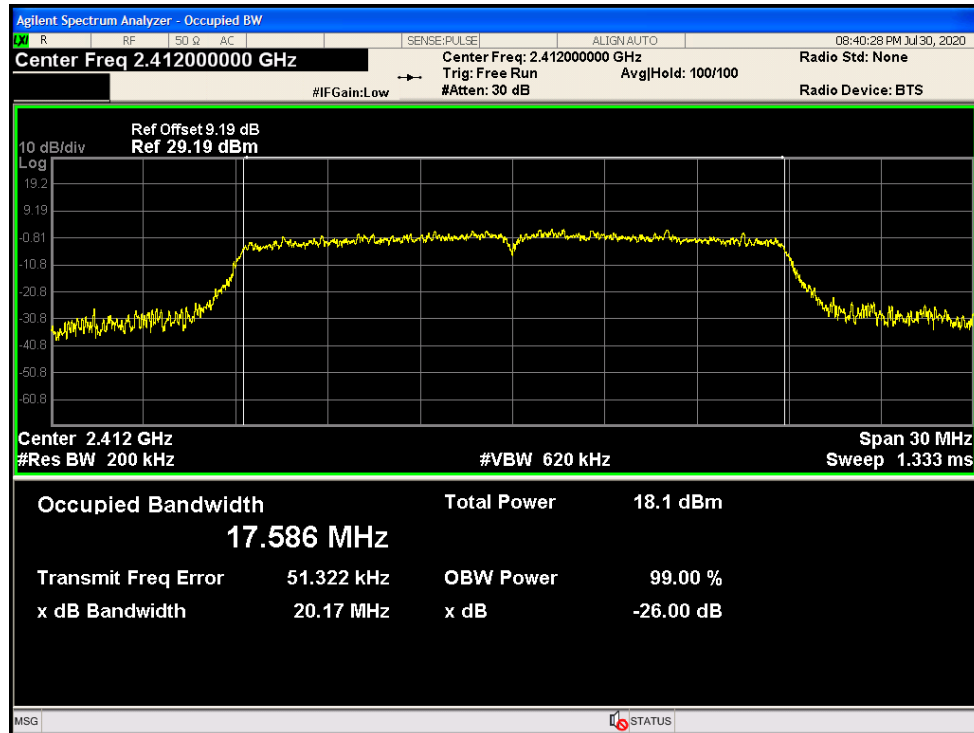
OBW NVNT g 2437MHz Ant1



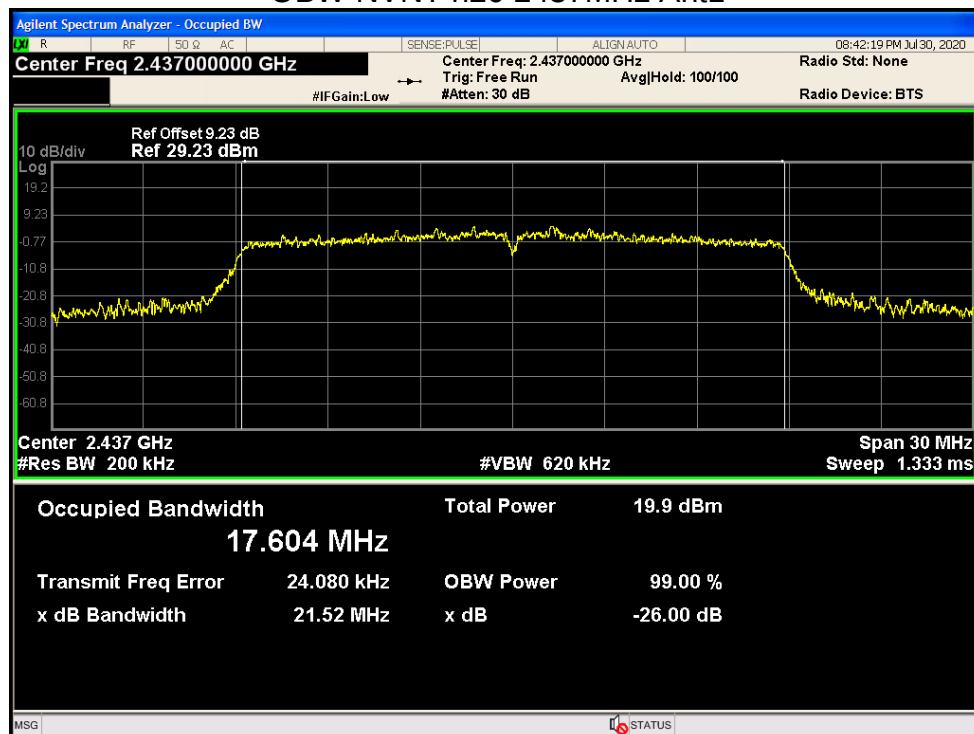
OBW NVNT g 2462MHz Ant1



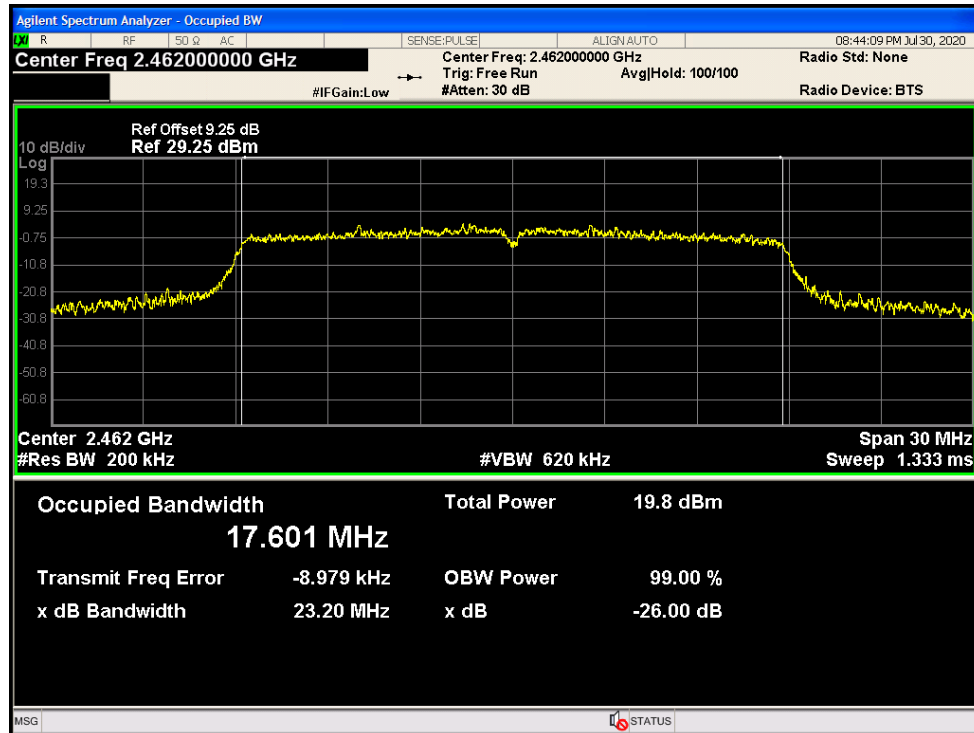
OBW NVNT n20 2412MHz Ant1



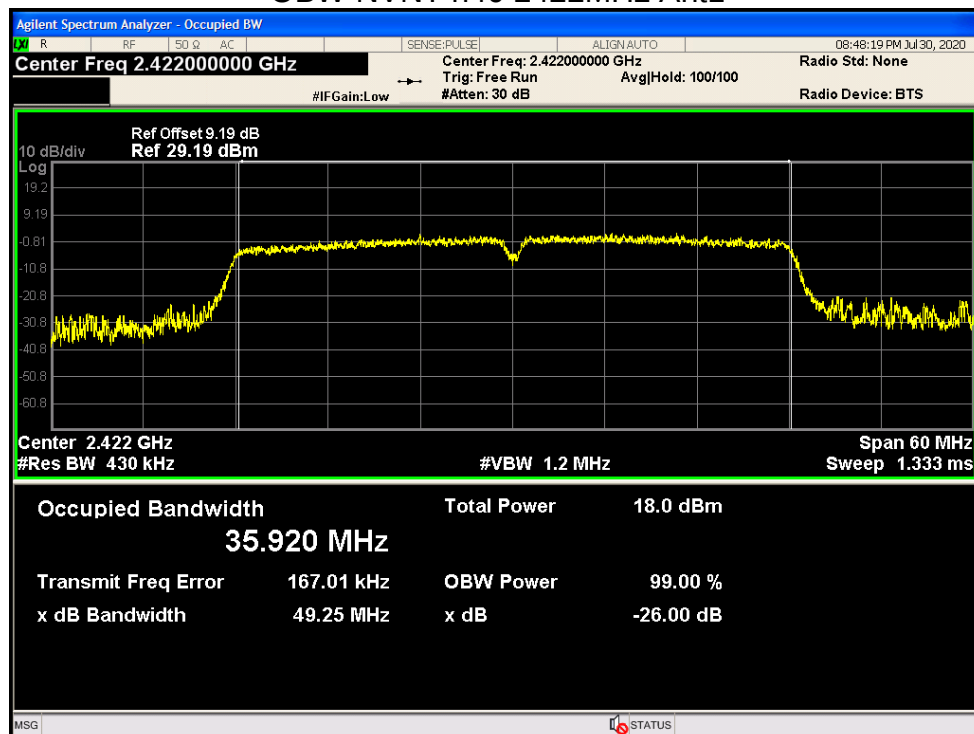
OBW NVNT n20 2437MHz Ant1



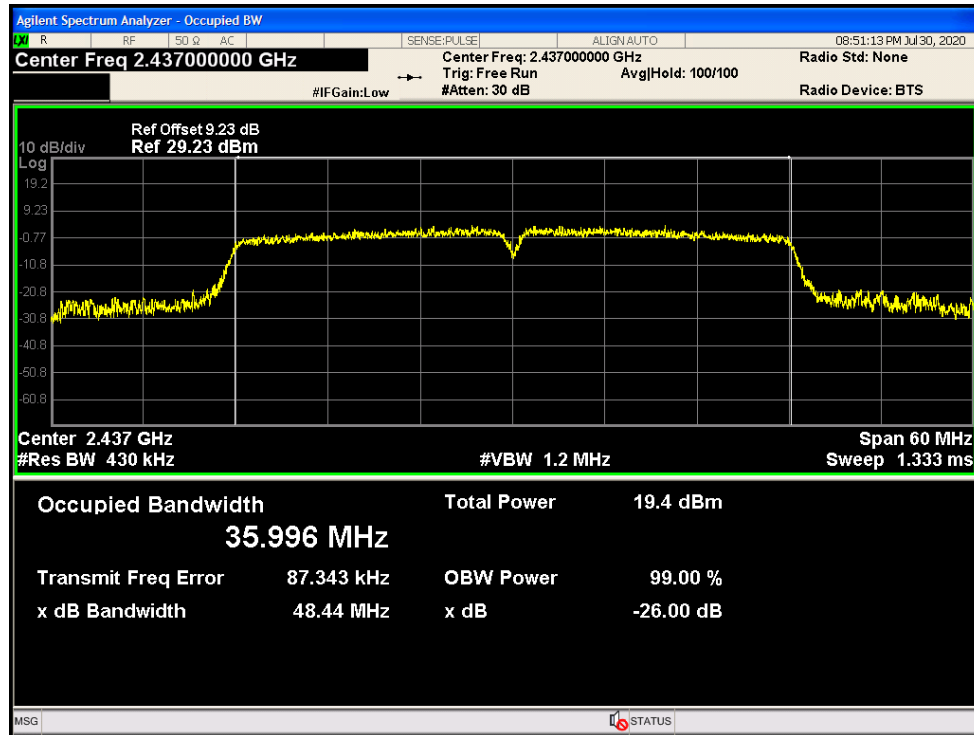
OBW NVNT n20 2462MHz Ant1



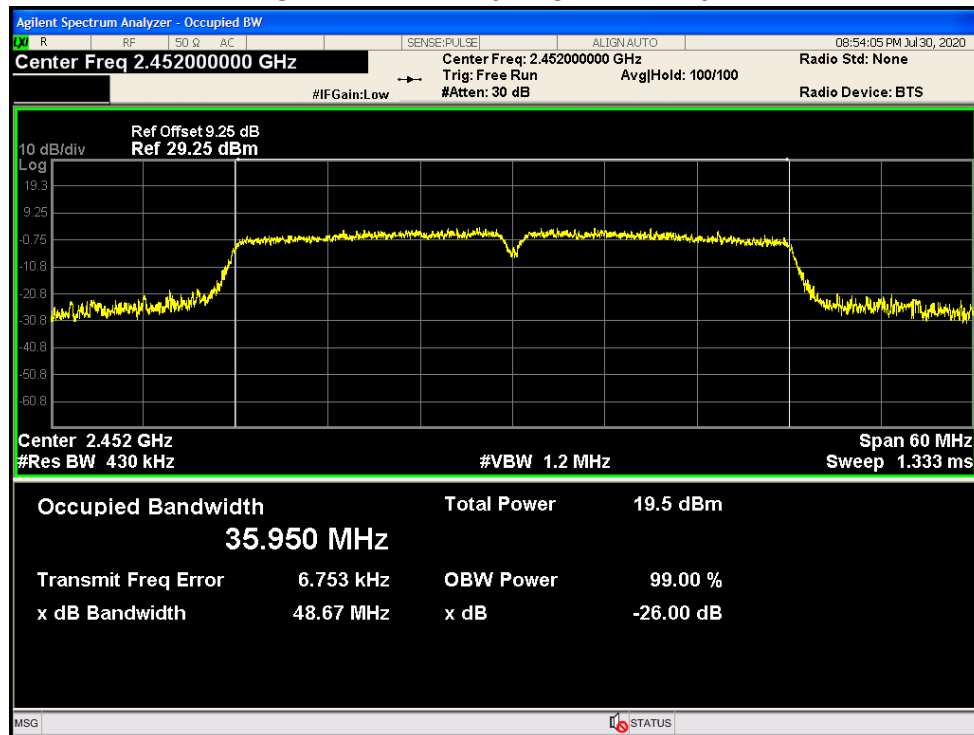
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-15.689	8	Pass
NVNT	b	2437	Ant1	-15.785	8	Pass
NVNT	b	2462	Ant1	-15.777	8	Pass
NVNT	g	2412	Ant1	-21.254	8	Pass

NVNT	g	2437	Ant1	-19.149	8	Pass
NVNT	g	2462	Ant1	-19.047	8	Pass
NVNT	n20	2412	Ant1	-20.939	8	Pass
NVNT	n20	2437	Ant1	-19.11	8	Pass
NVNT	n20	2462	Ant1	-18.853	8	Pass
NVNT	n40	2422	Ant1	-24.667	8	Pass
NVNT	n40	2437	Ant1	-22.997	8	Pass
NVNT	n40	2452	Ant1	-23.404	8	Pass

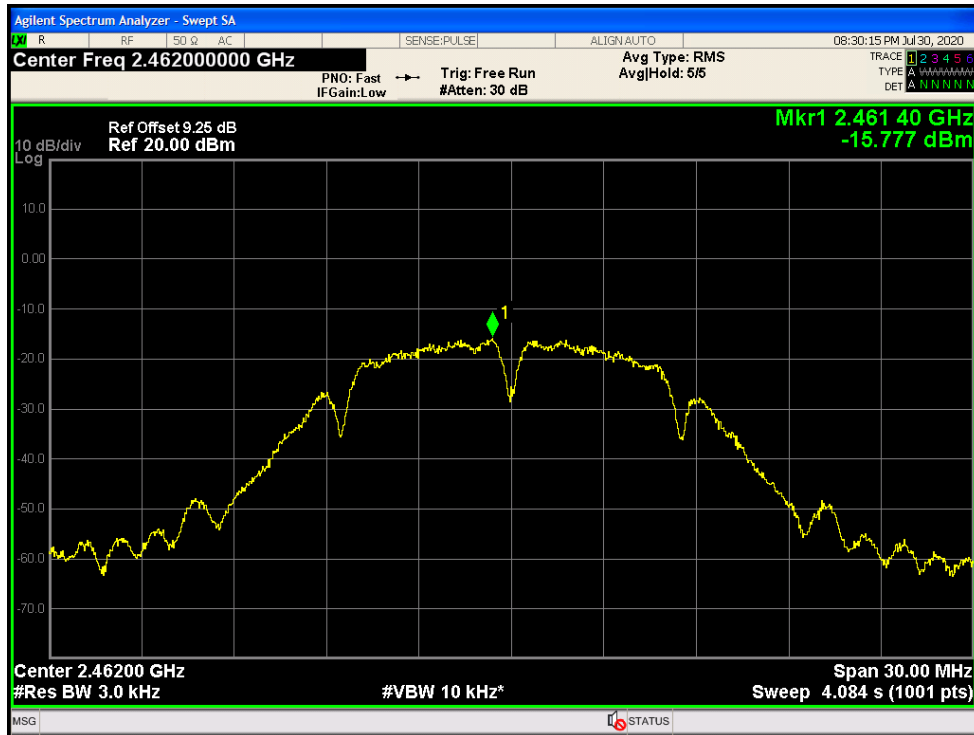
PSD NVNT b 2412MHz Ant1



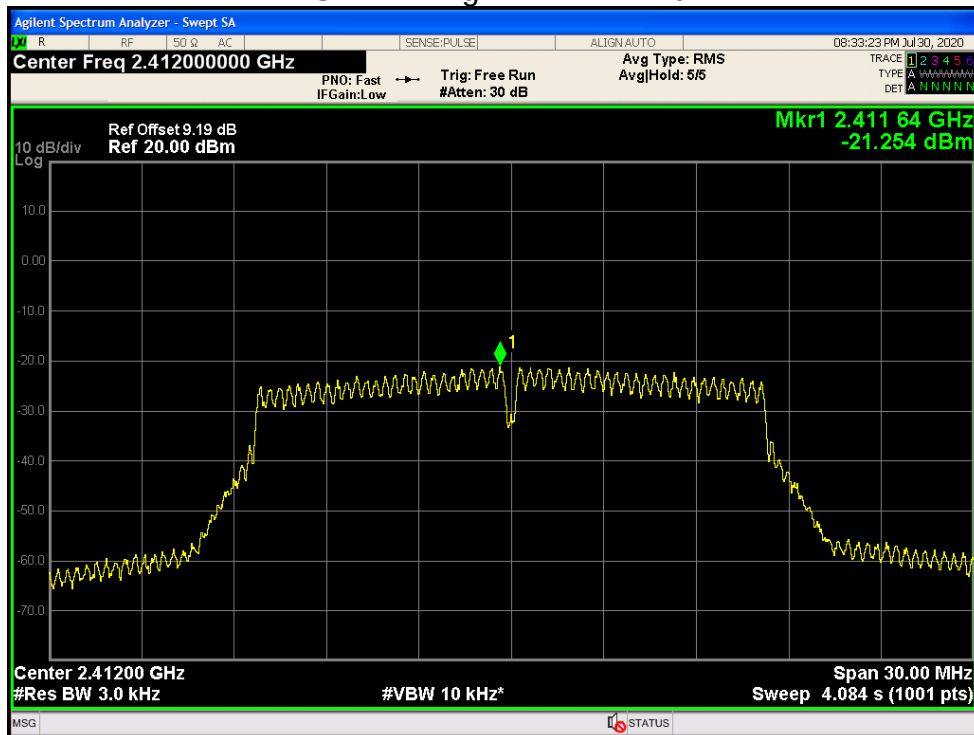
PSD NVNT b 2437MHz Ant1



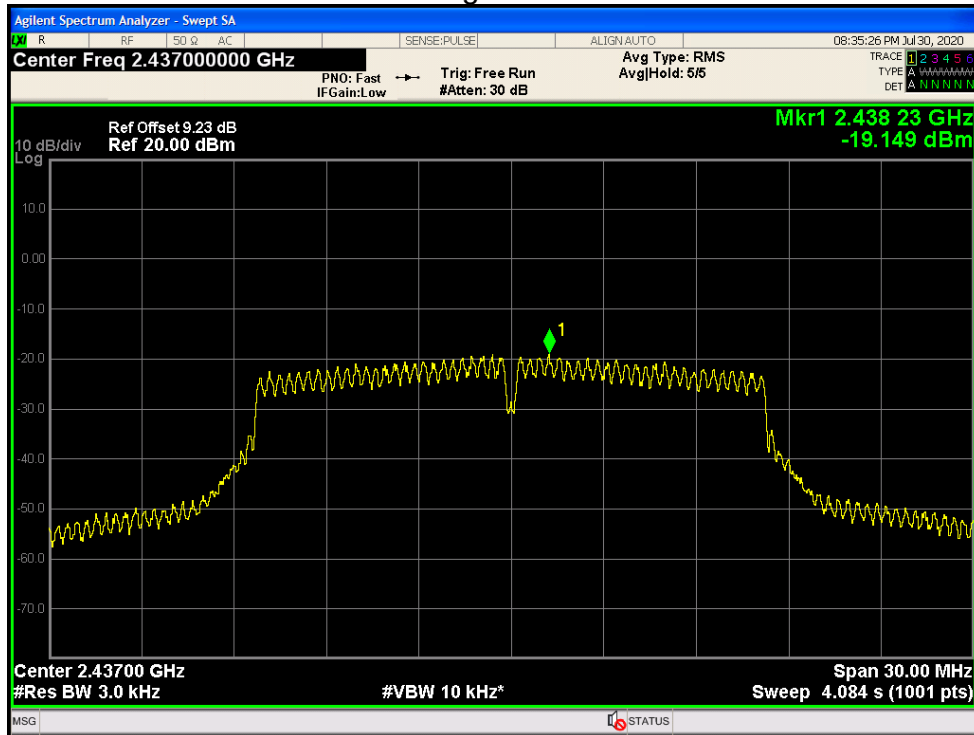
PSD NVNT b 2462MHz Ant1



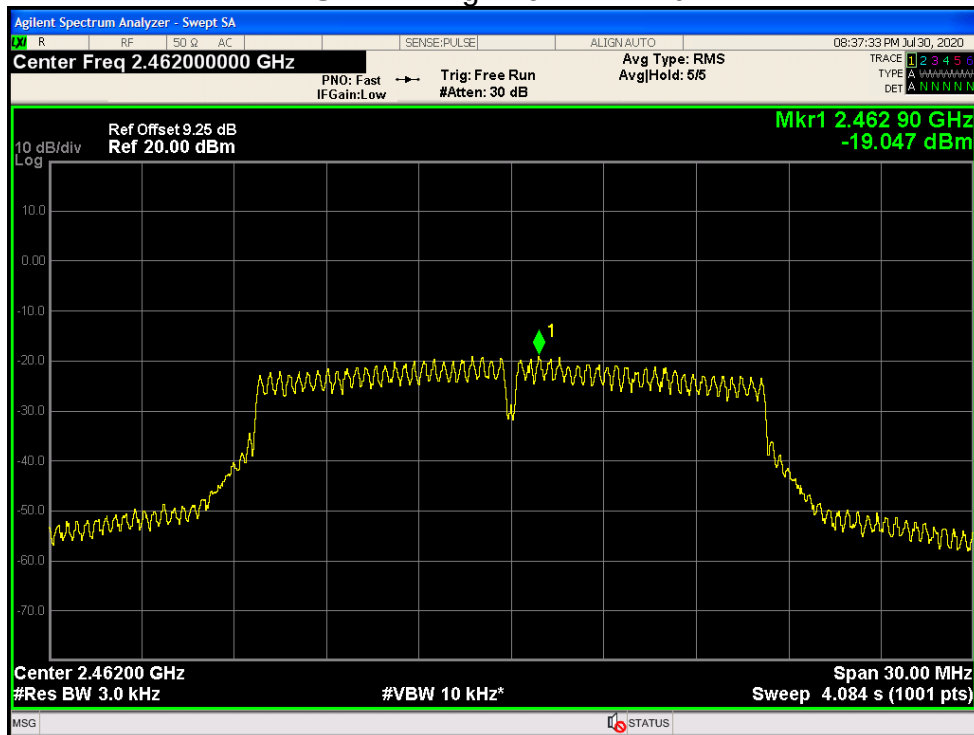
PSD NVNT g 2412MHz Ant1



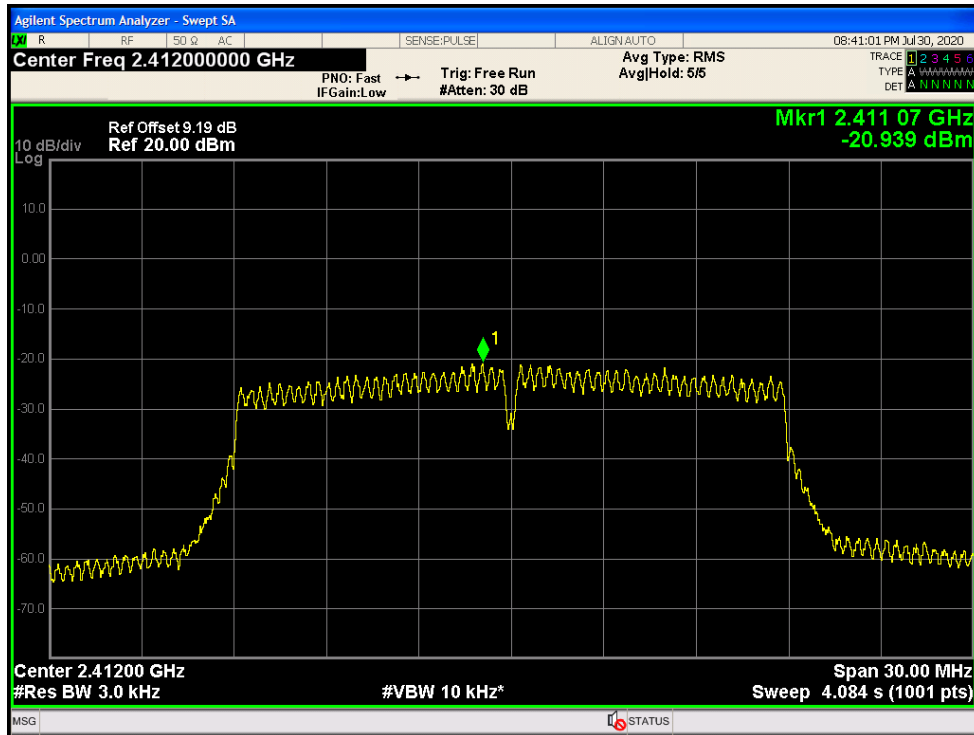
PSD NVNT g 2437MHz Ant1



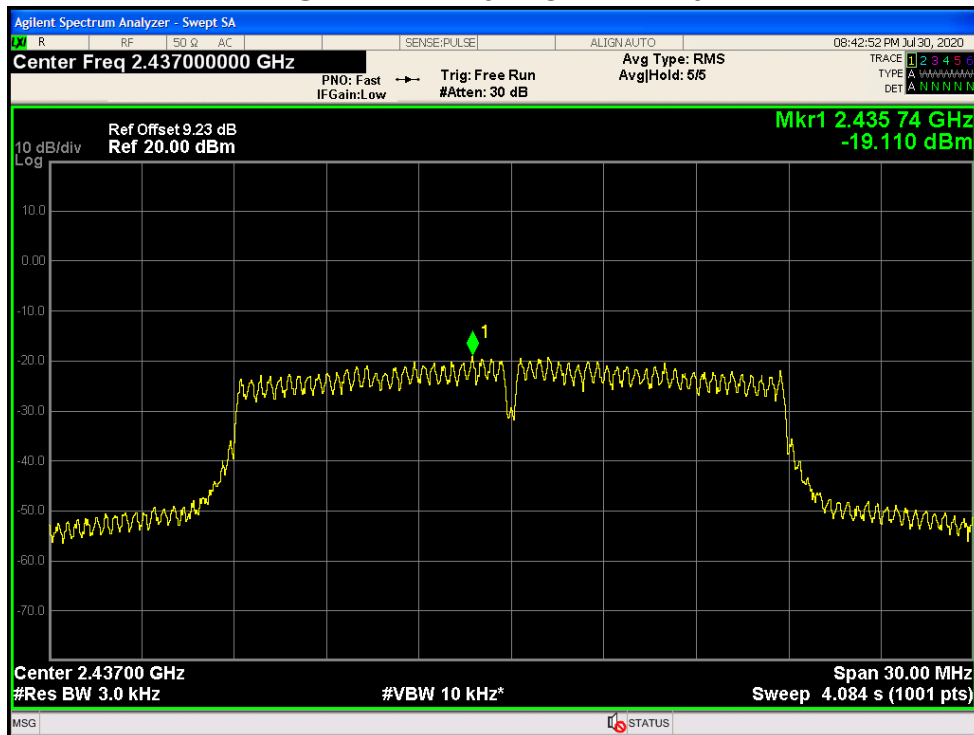
PSD NVNT g 2462MHz Ant1



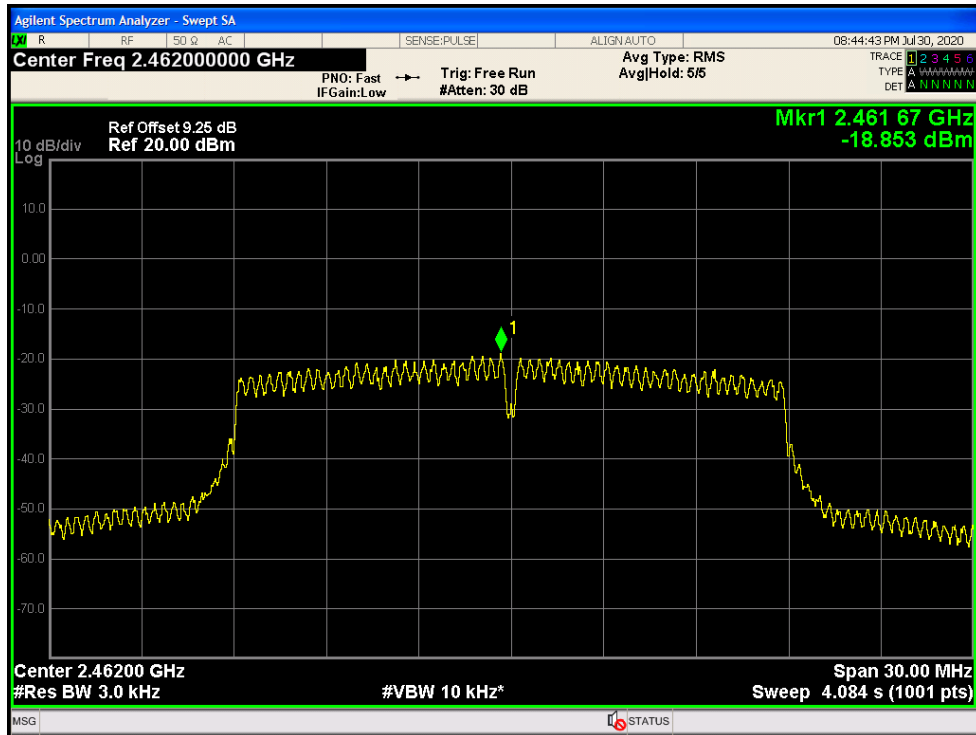
PSD NVNT n20 2412MHz Ant1



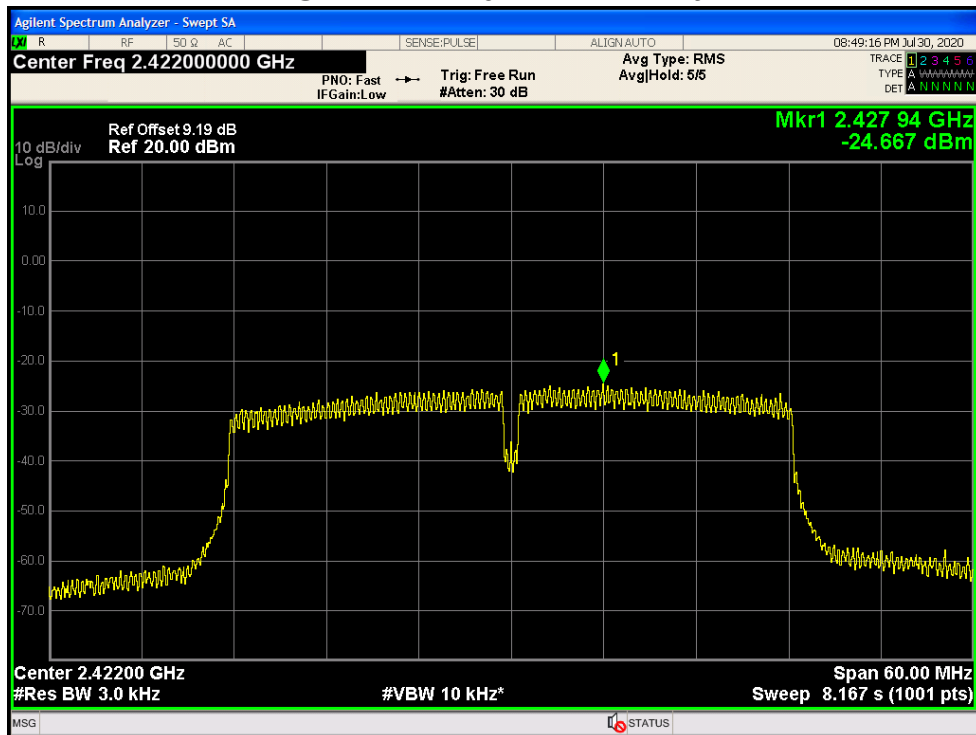
PSD NVNT n20 2437MHz Ant1



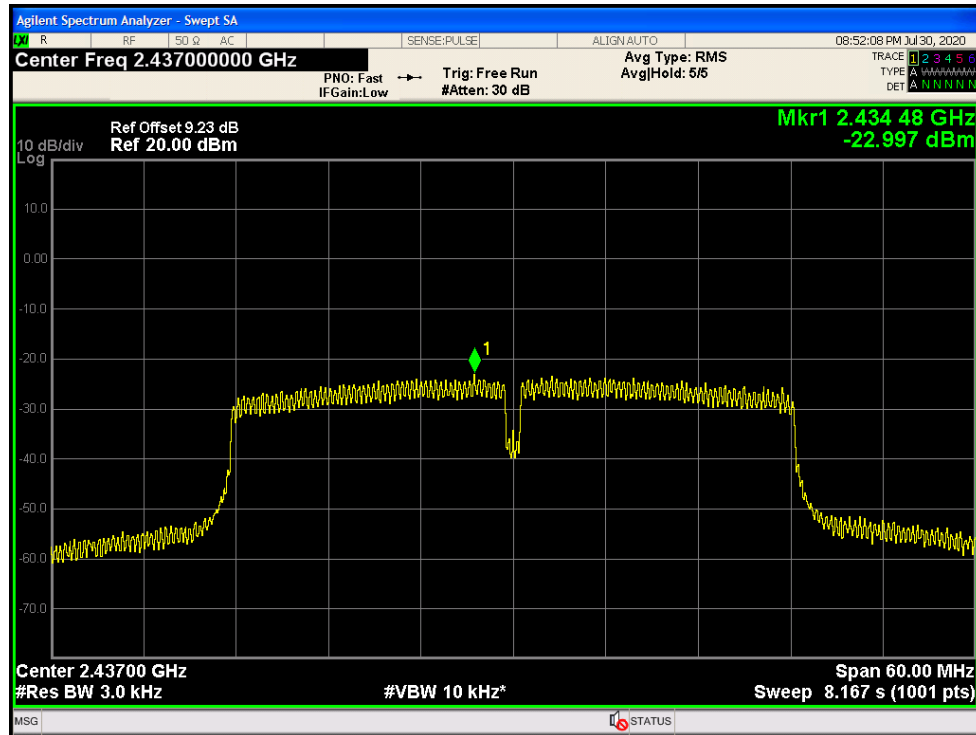
PSD NVNT n20 2462MHz Ant1



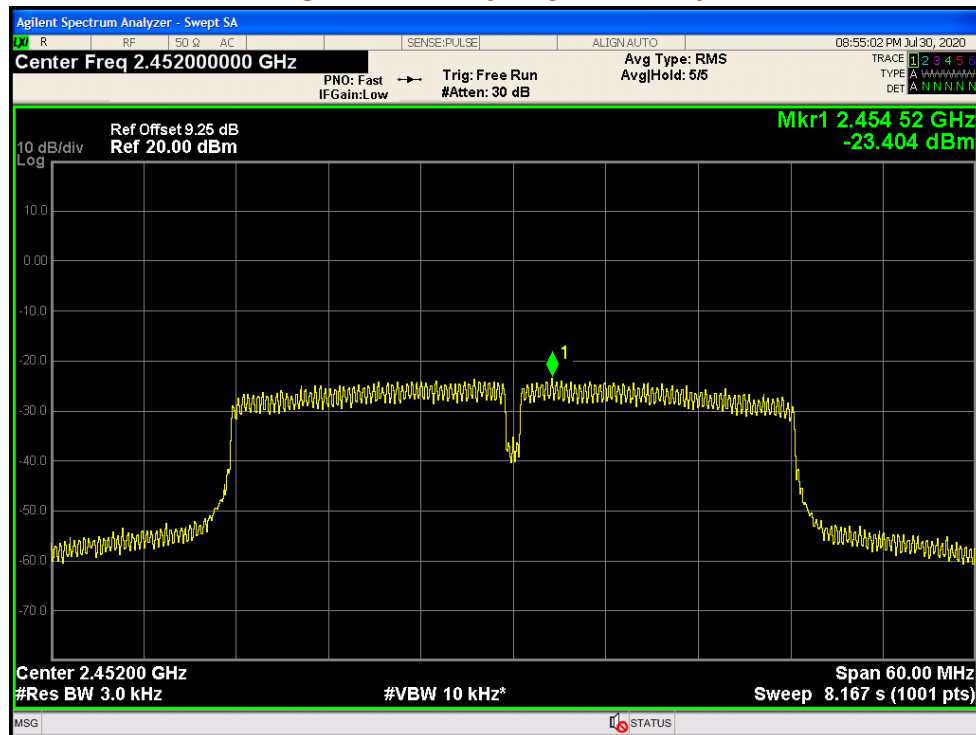
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

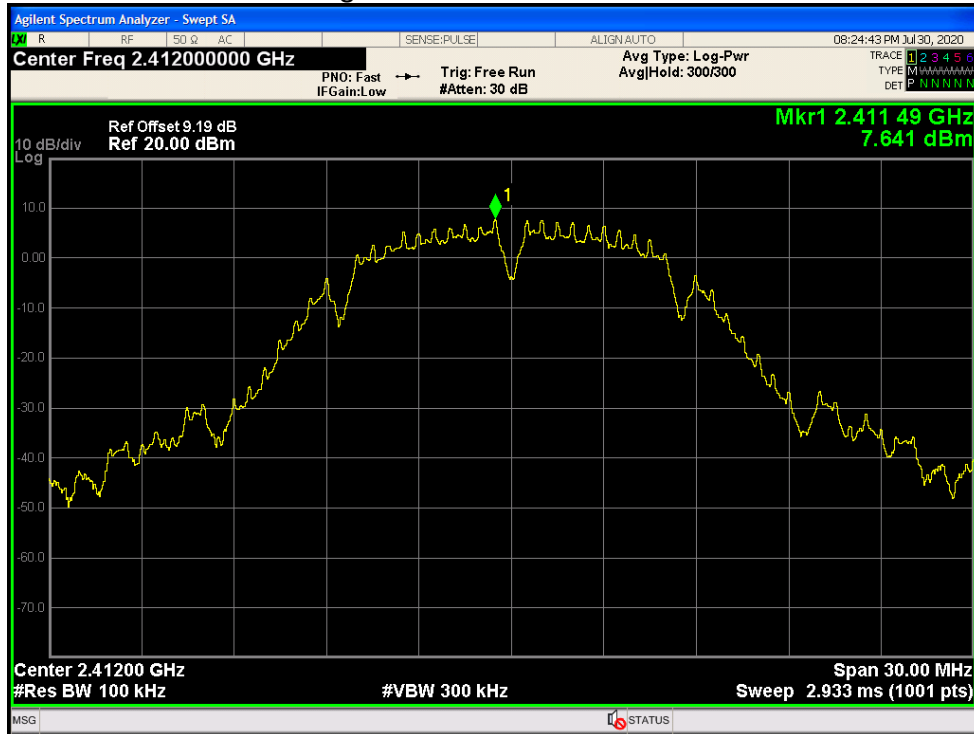


Band Edge

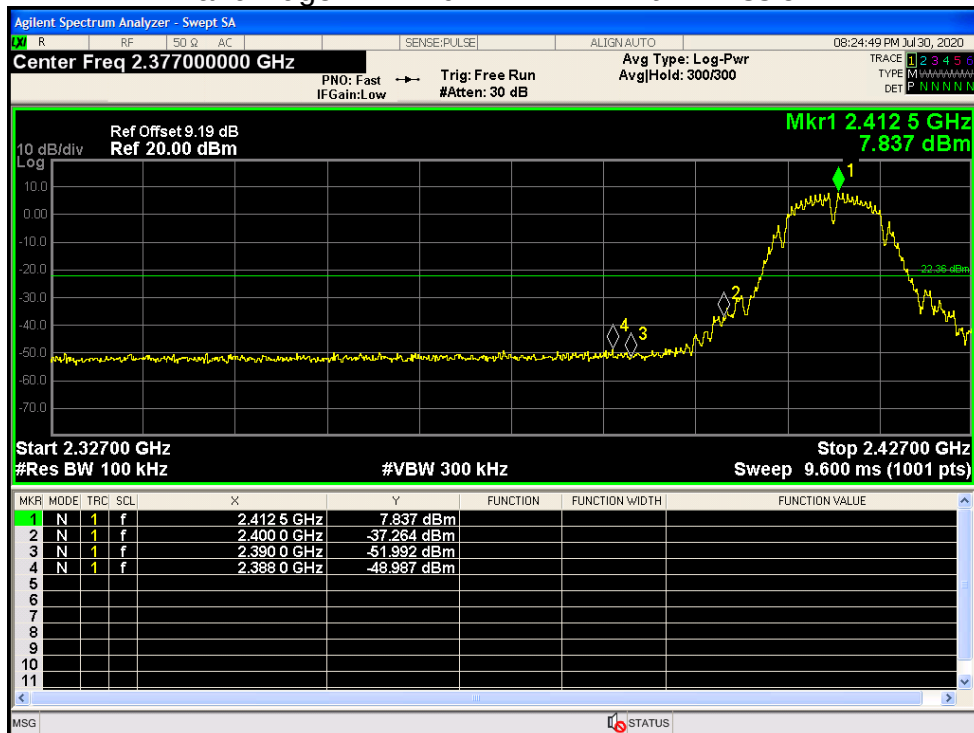
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.62	-30	Pass
NVNT	b	2462	Ant1	-55.92	-30	Pass
NVNT	g	2412	Ant1	-48.39	-30	Pass
NVNT	g	2462	Ant1	-45.23	-30	Pass

NVNT	n20	2412	Ant1	-46.25	-30	Pass
NVNT	n20	2462	Ant1	-39.86	-30	Pass
NVNT	n40	2422	Ant1	-34.57	-30	Pass
NVNT	n40	2452	Ant1	-30.6	-30	Pass

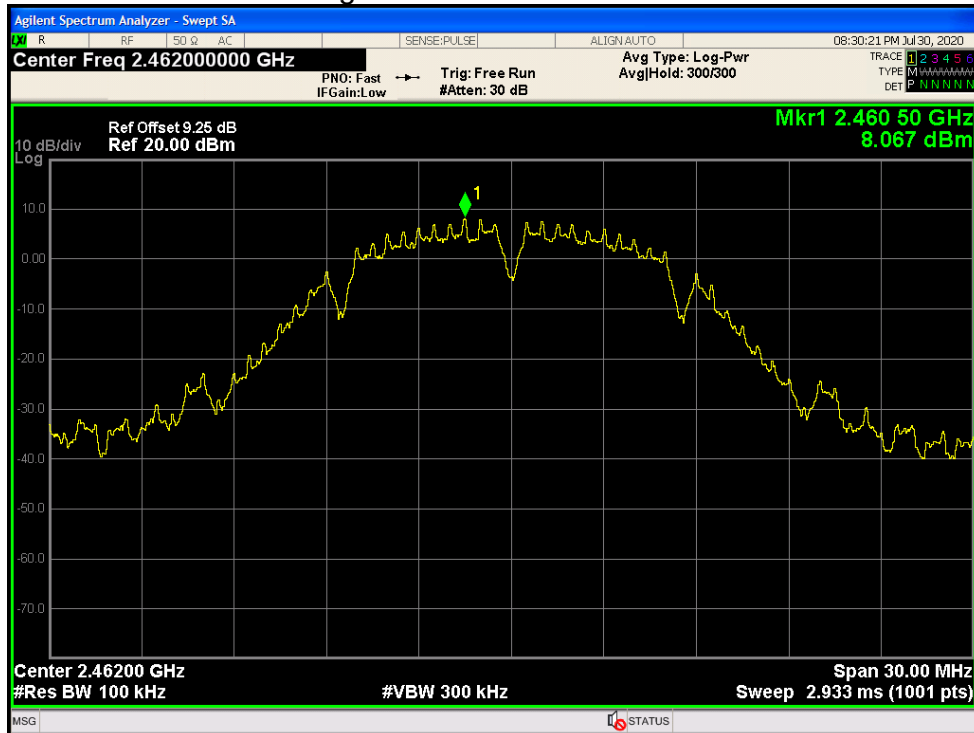
Band Edge NVNT b 2412MHz Ant1 Ref



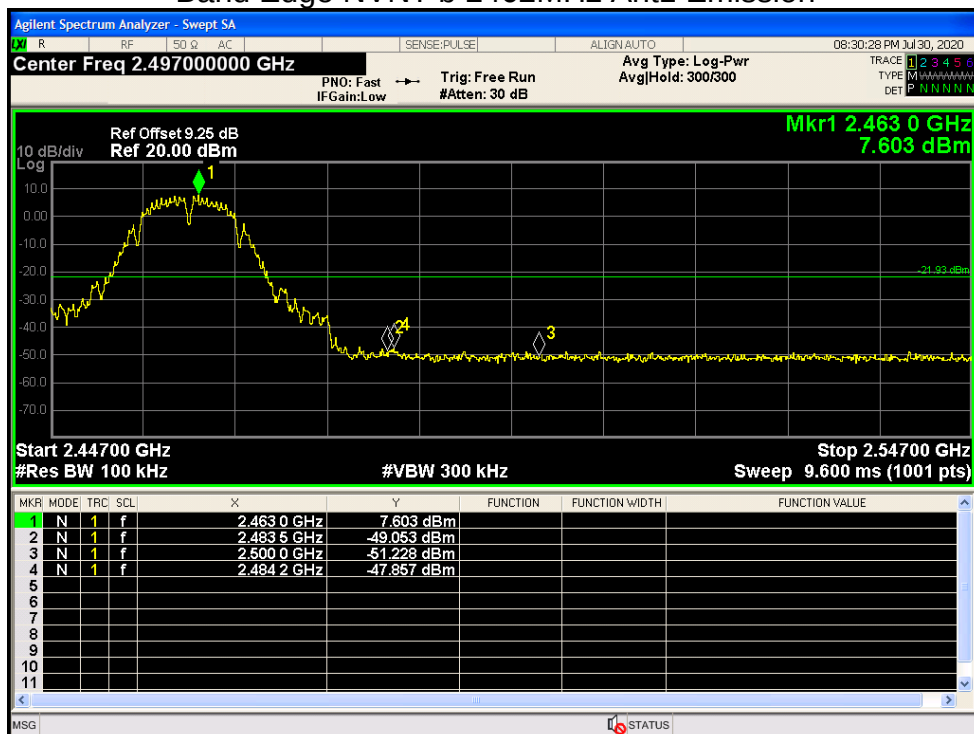
Band Edge NVNT b 2412MHz Ant1 Emission



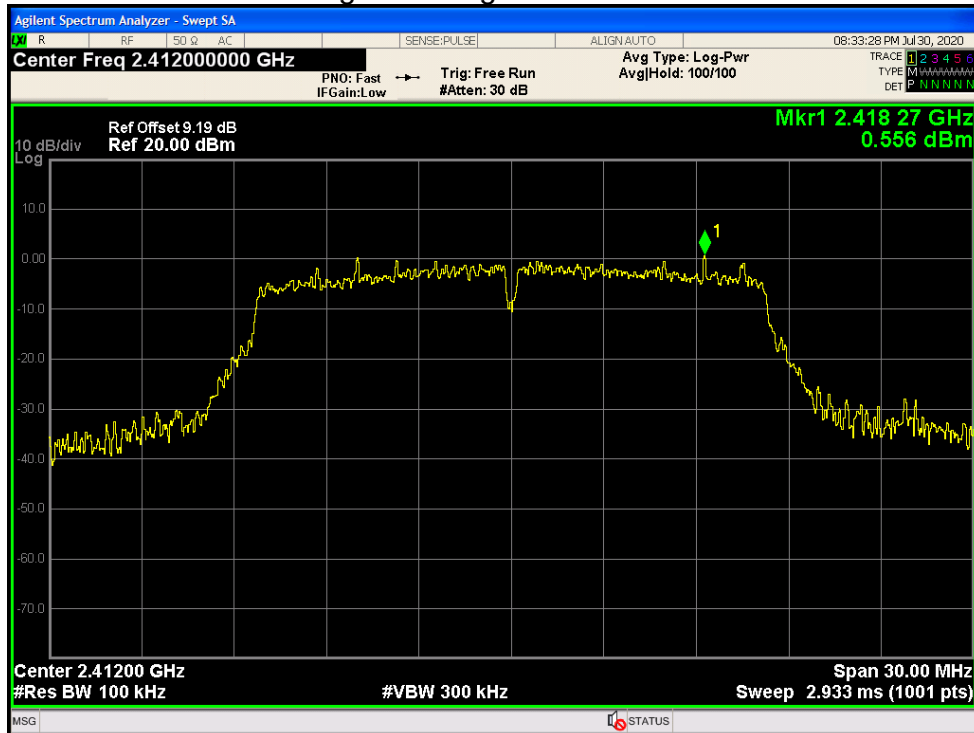
Band Edge NVNT b 2462MHz Ant1 Ref



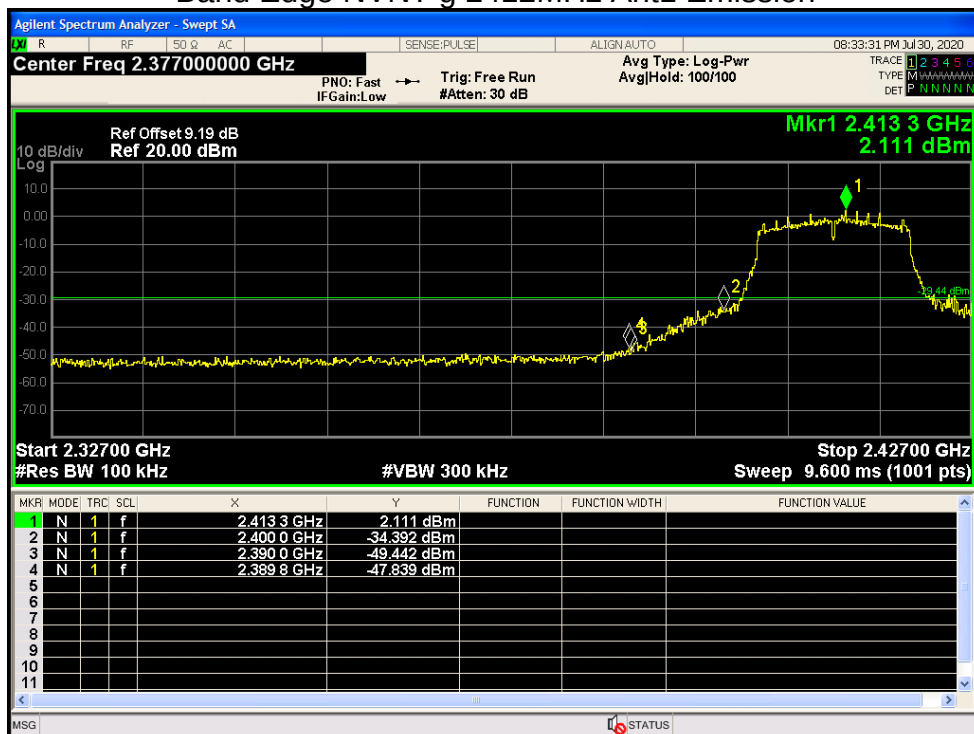
Band Edge NVNT b 2462MHz Ant1 Emission



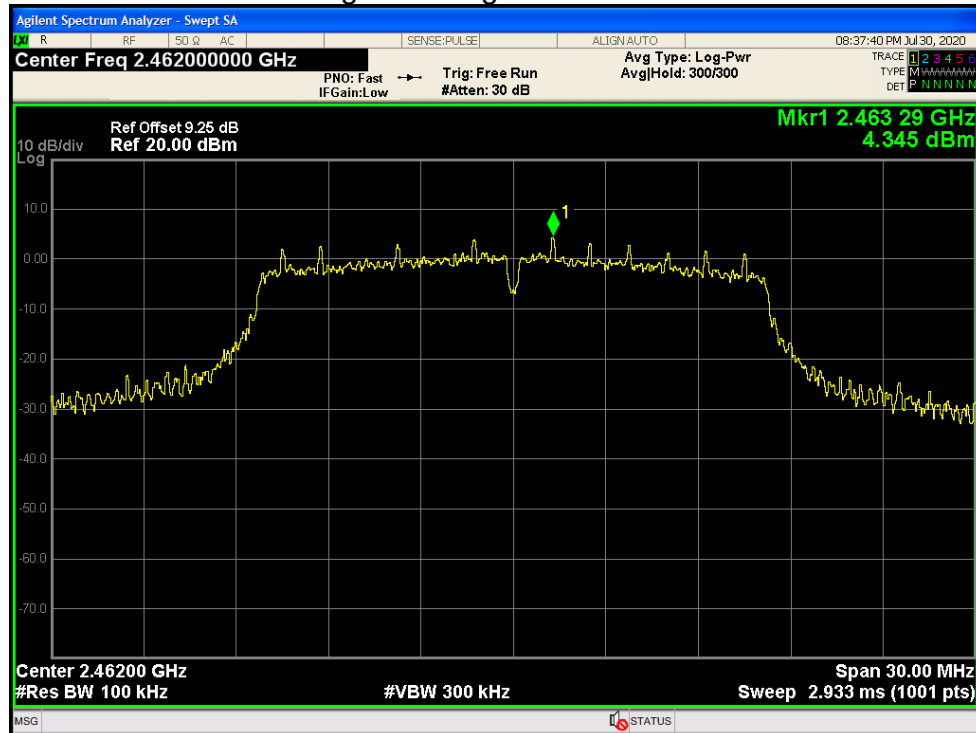
Band Edge NVNT g 2412MHz Ant1 Ref



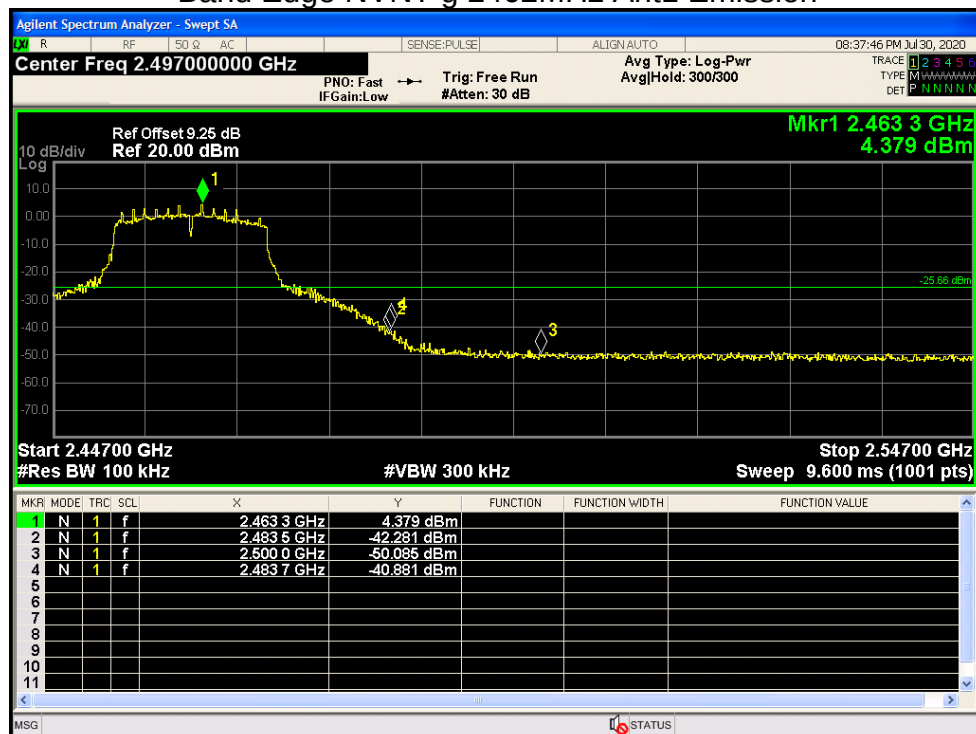
Band Edge NVNT g 2412MHz Ant1 Emission



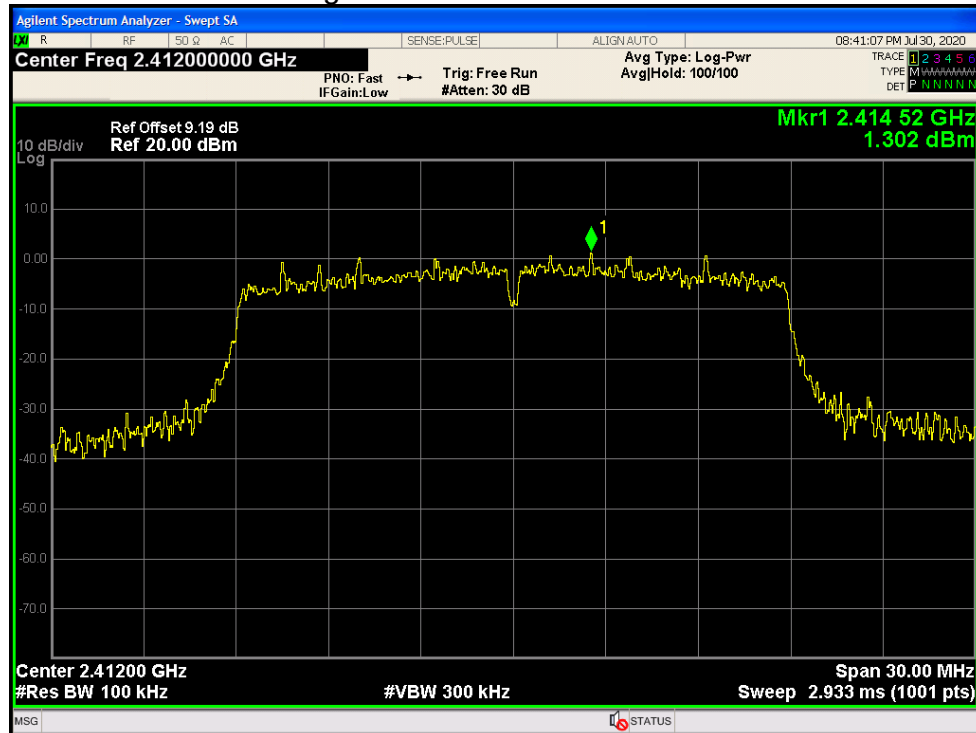
Band Edge NVNT g 2462MHz Ant1 Ref



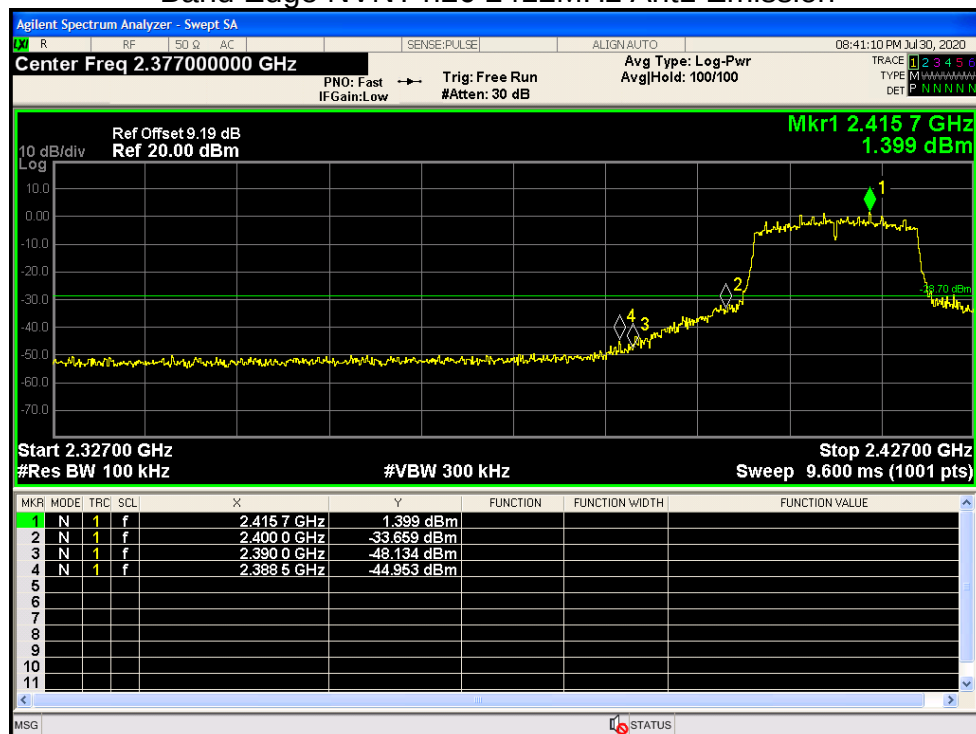
Band Edge NVNT g 2462MHz Ant1 Emission



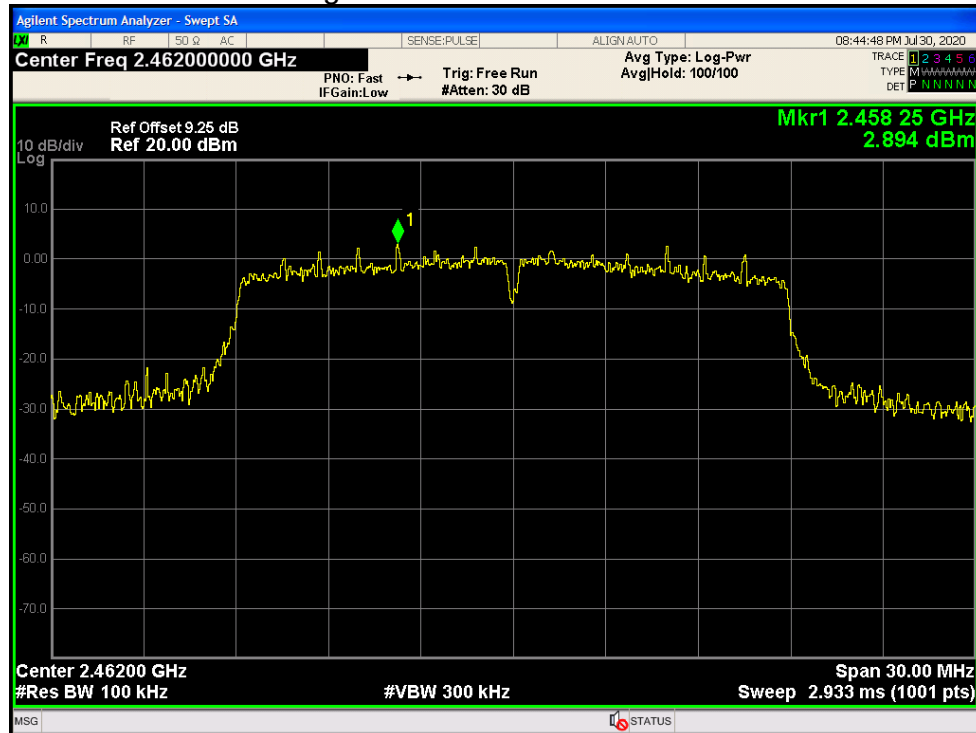
Band Edge NVNT n20 2412MHz Ant1 Ref



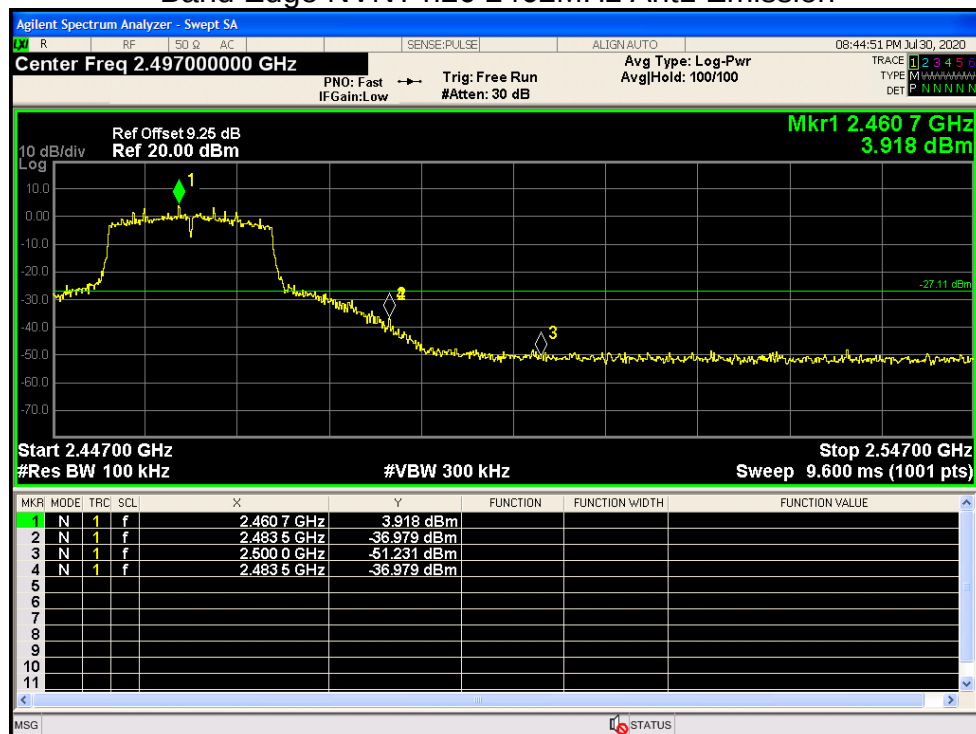
Band Edge NVNT n20 2412MHz Ant1 Emission



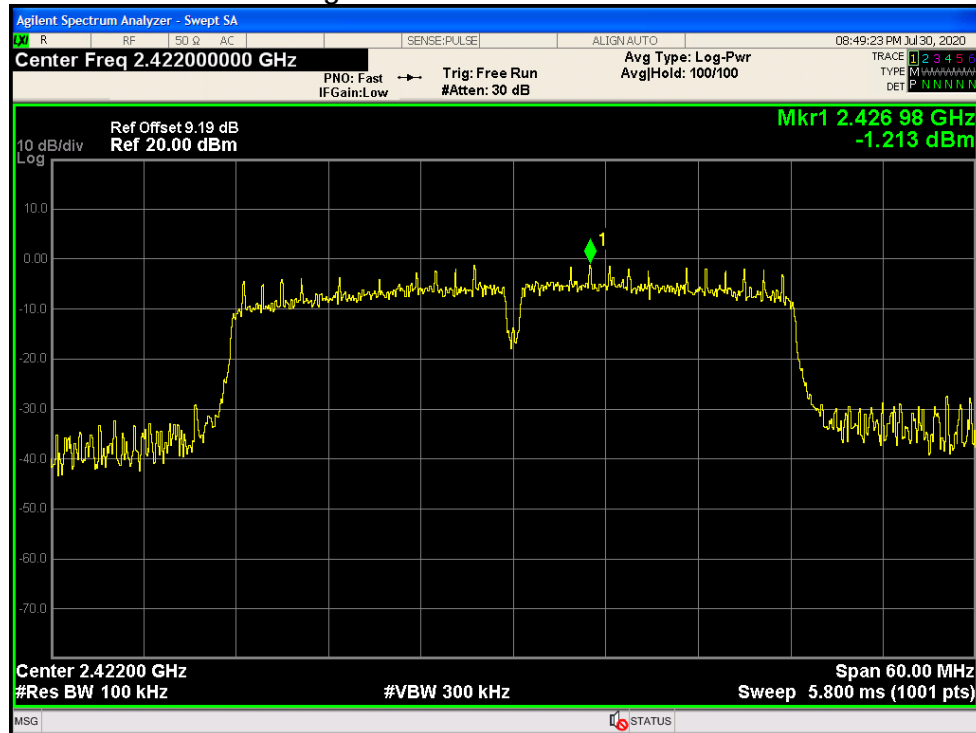
Band Edge NVNT n20 2462MHz Ant1 Ref



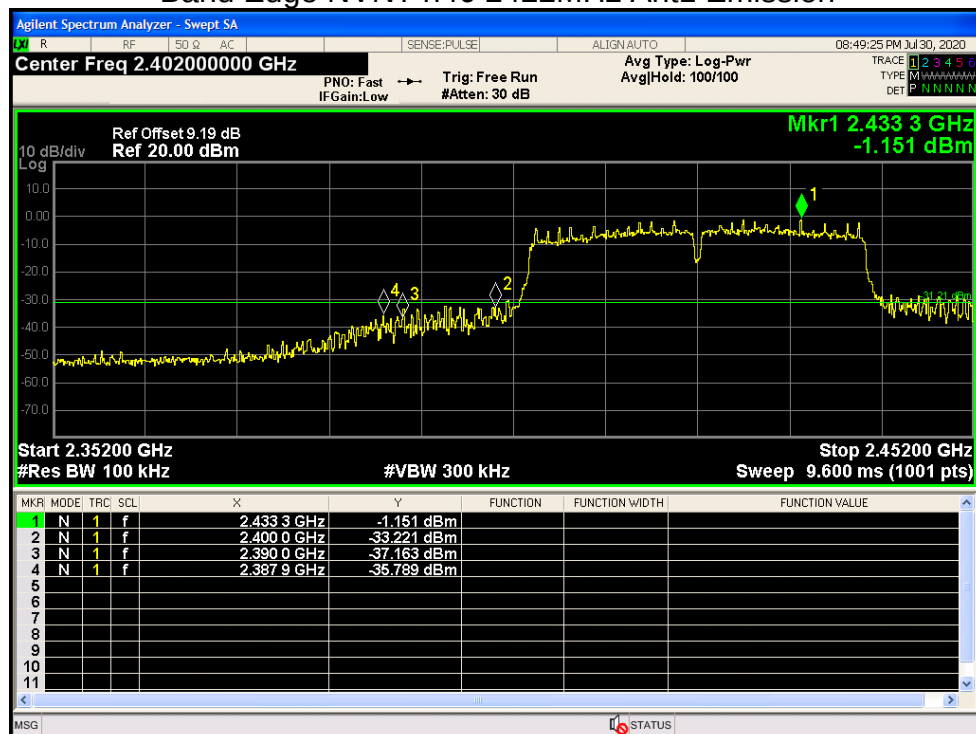
Band Edge NVNT n20 2462MHz Ant1 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



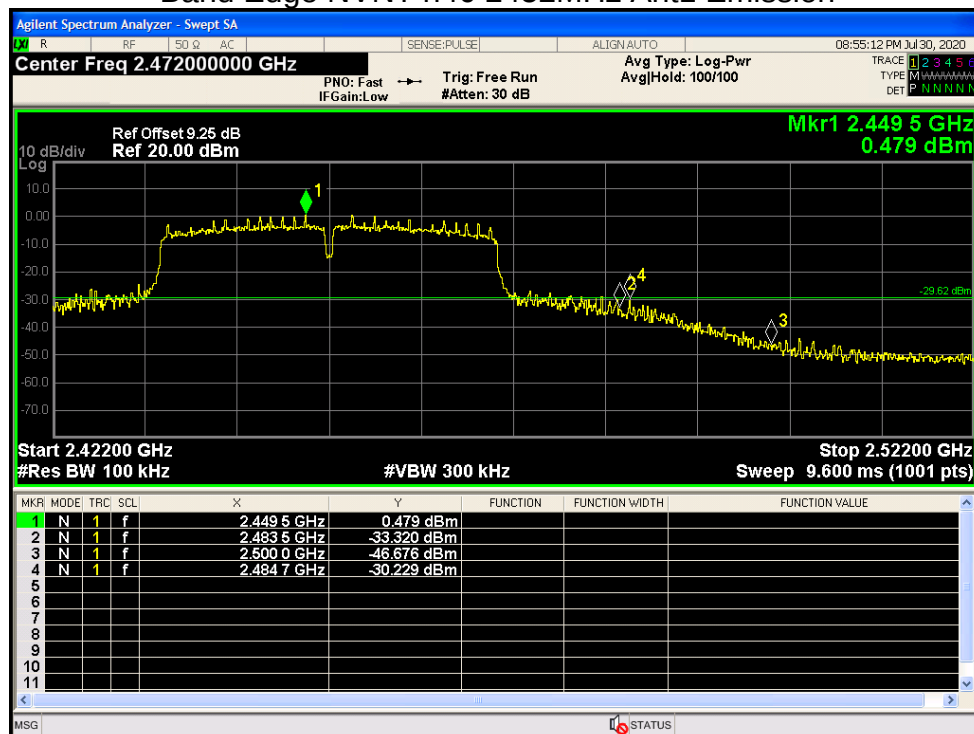
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

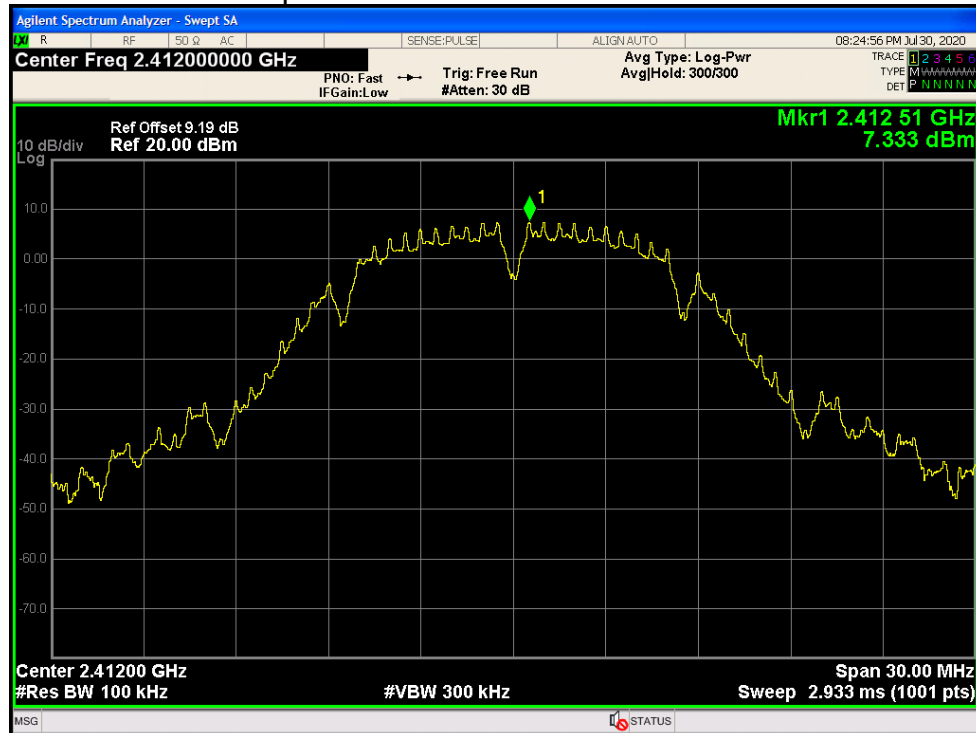


Conducted RF Spurious Emission

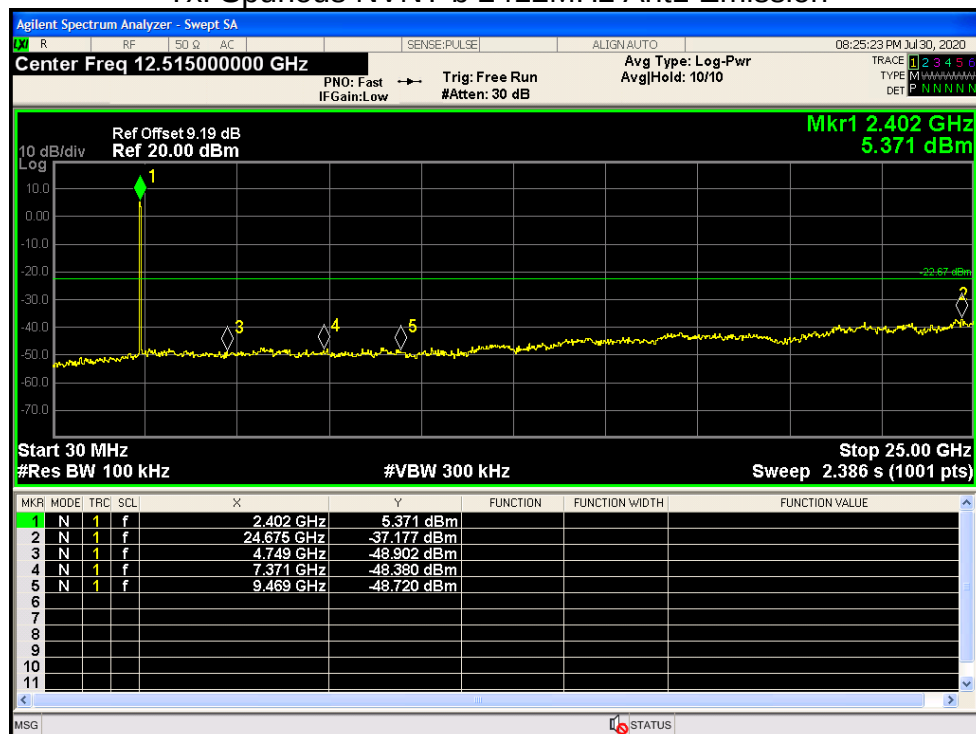
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.5	-30	Pass
NVNT	b	2437	Ant1	-44.41	-30	Pass
NVNT	b	2462	Ant1	-44.54	-30	Pass
NVNT	g	2412	Ant1	-40.1	-30	Pass

NVNT	g	2437	Ant1	-42.2	-30	Pass
NVNT	g	2462	Ant1	-40.84	-30	Pass
NVNT	n20	2412	Ant1	-37.83	-30	Pass
NVNT	n20	2437	Ant1	-38.17	-30	Pass
NVNT	n20	2462	Ant1	-40.78	-30	Pass
NVNT	n40	2422	Ant1	-35.98	-30	Pass
NVNT	n40	2437	Ant1	-38.22	-30	Pass
NVNT	n40	2452	Ant1	-37.97	-30	Pass

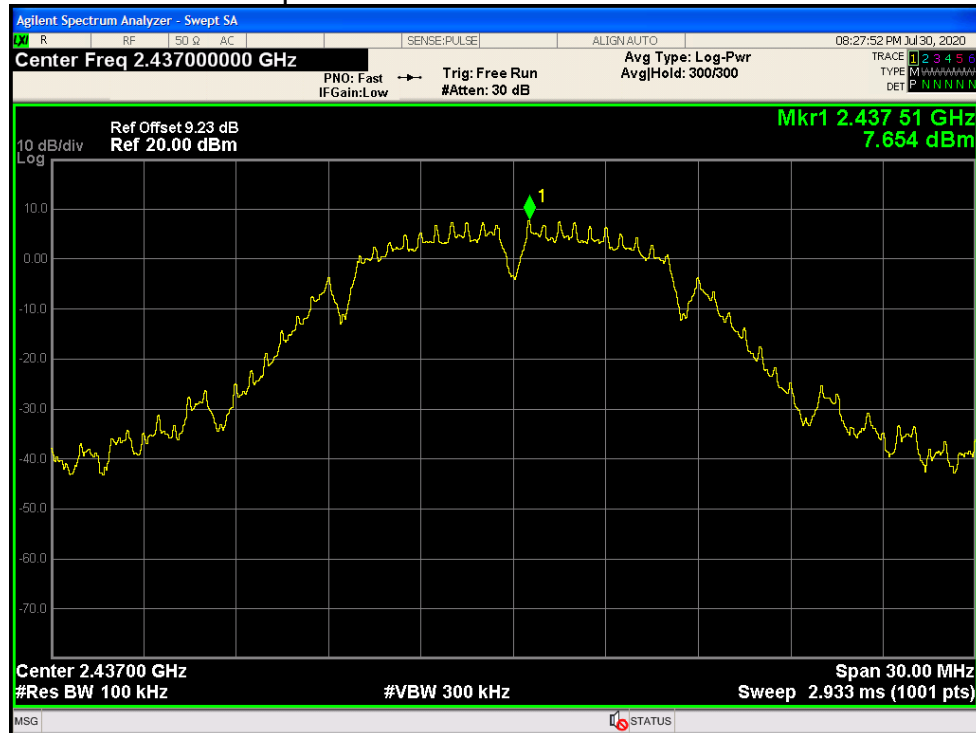
Tx. Spurious NVNT b 2412MHz Ant1 Ref



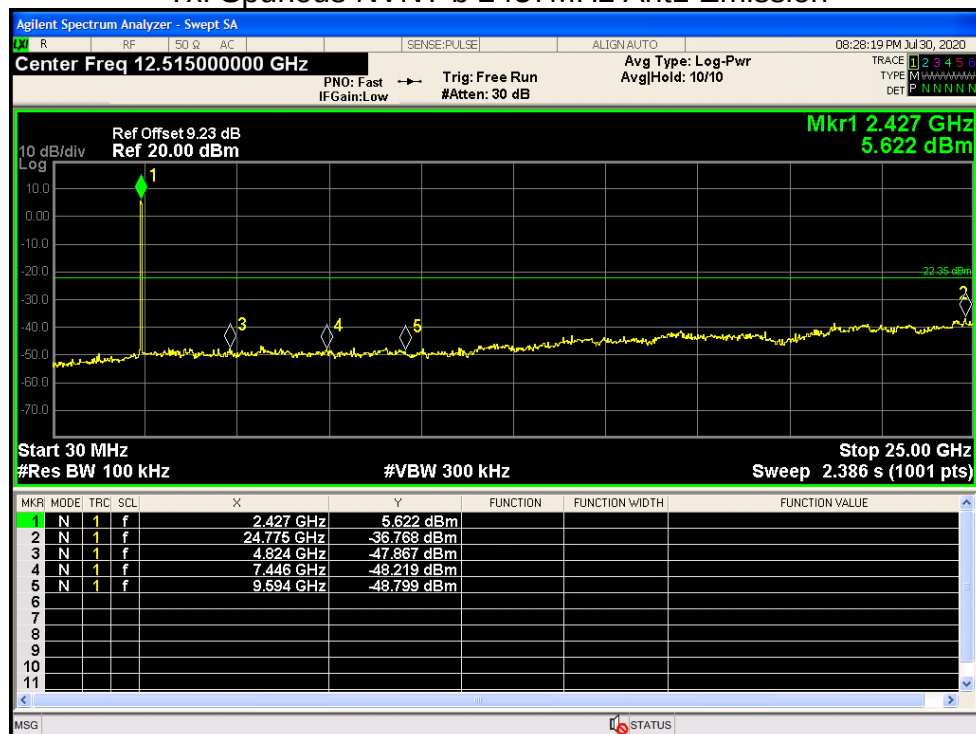
Tx. Spurious NVNT b 2412MHz Ant1 Emission



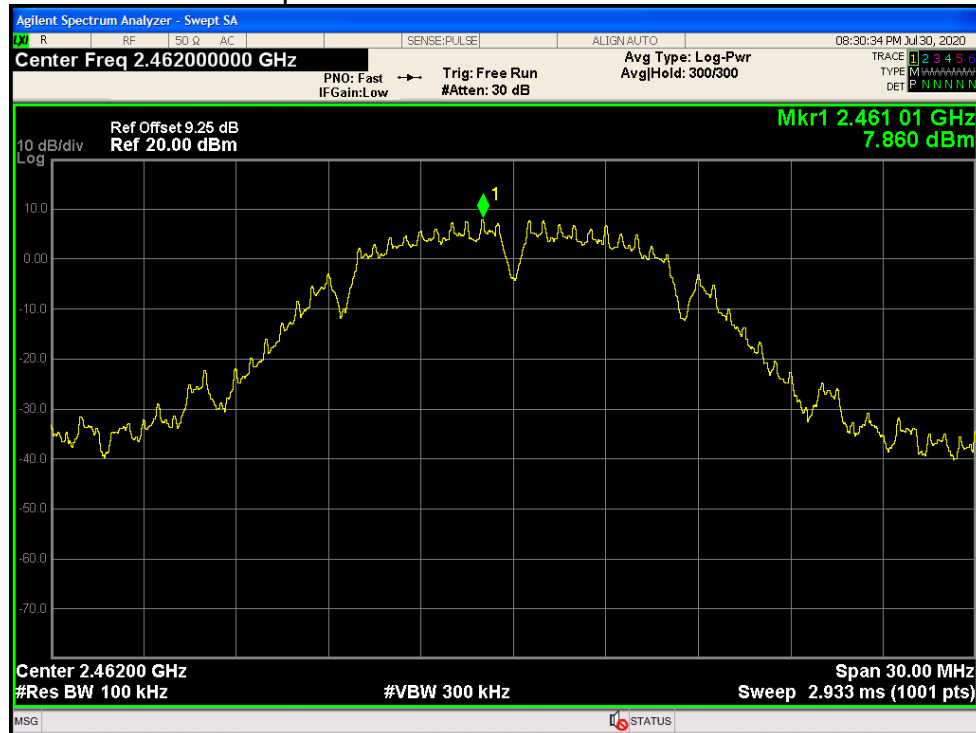
Tx. Spurious NVNT b 2437MHz Ant1 Ref



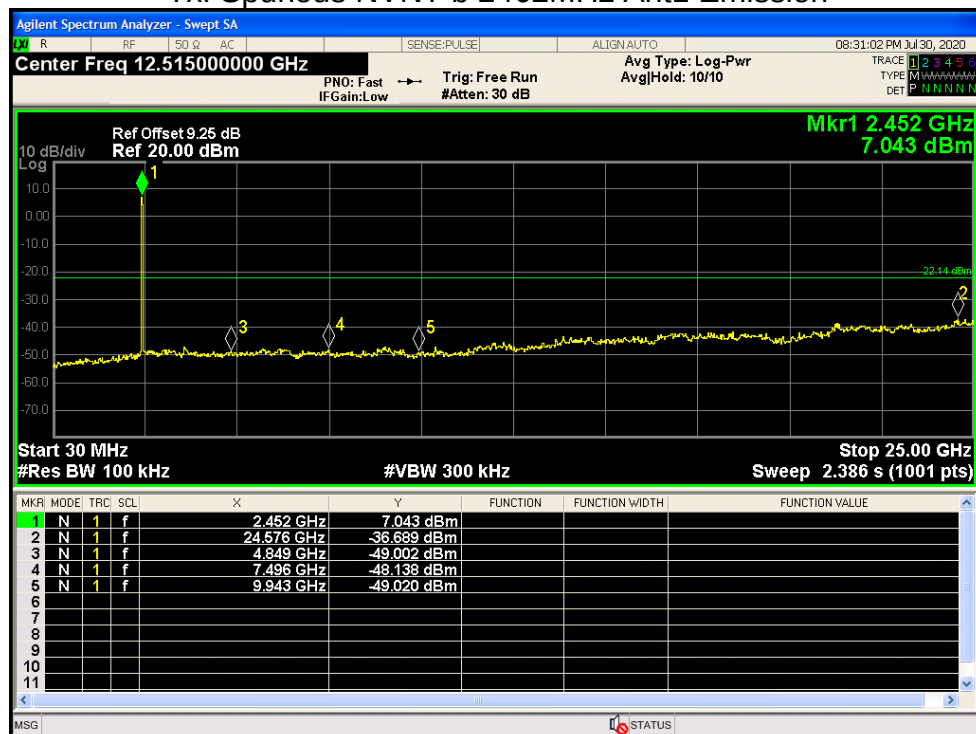
Tx. Spurious NVNT b 2437MHz Ant1 Emission



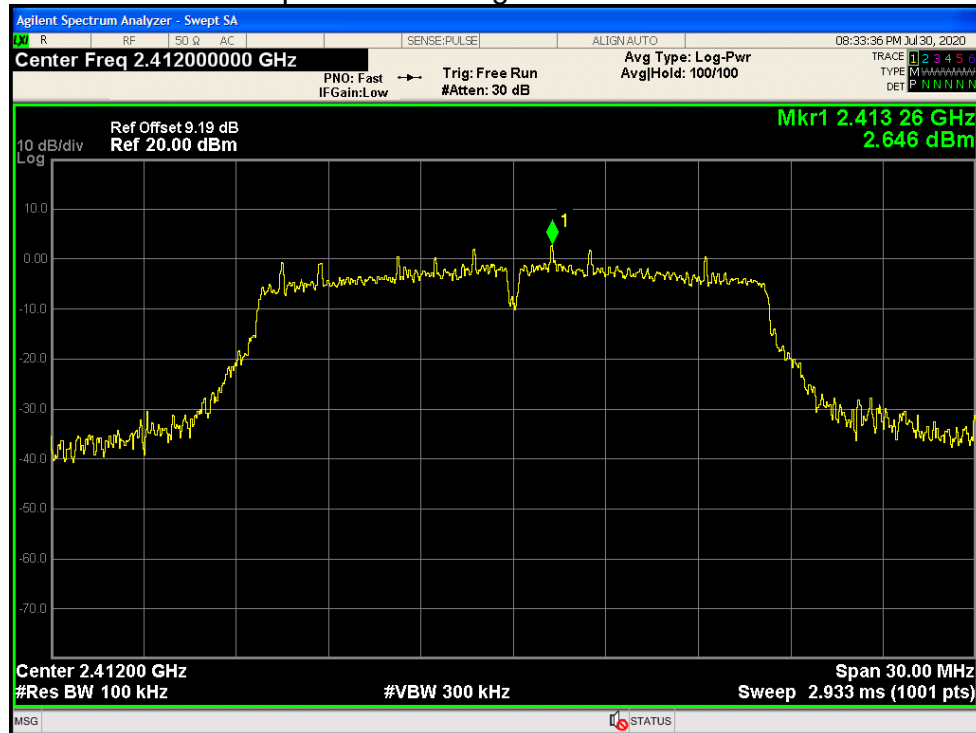
Tx. Spurious NVNT b 2462MHz Ant1 Ref



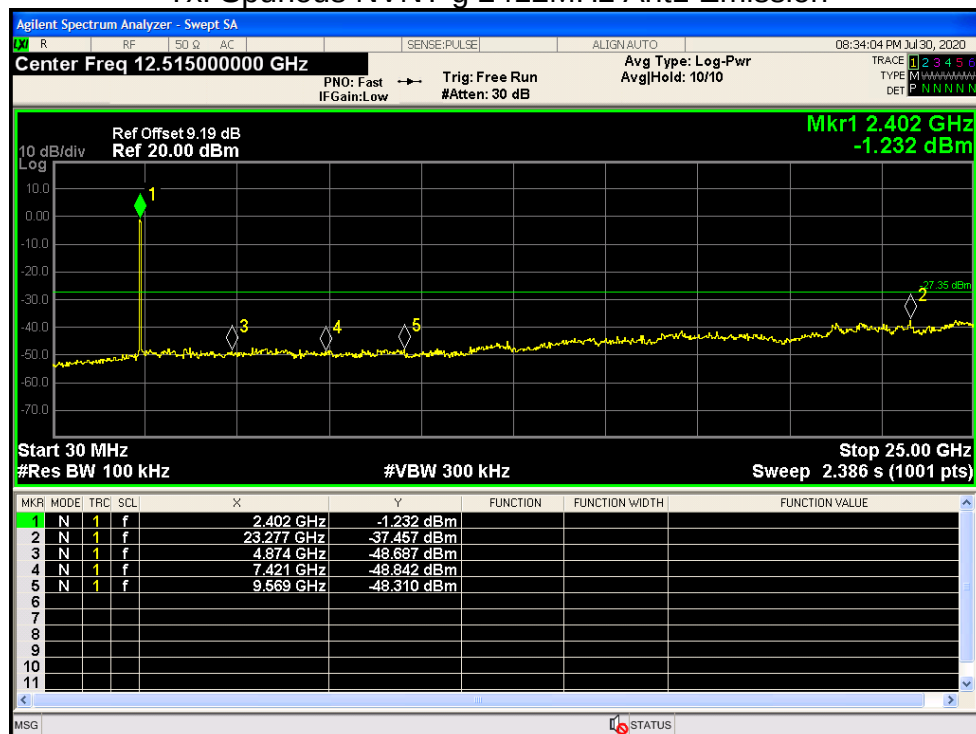
Tx. Spurious NVNT b 2462MHz Ant1 Emission



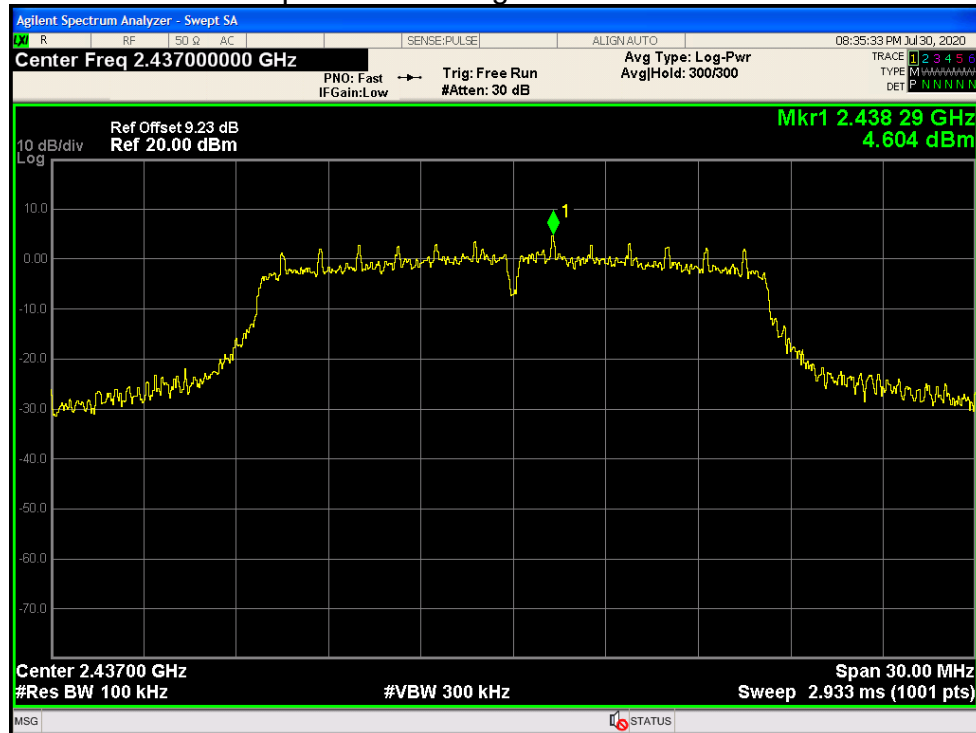
Tx. Spurious NVNT g 2412MHz Ant1 Ref



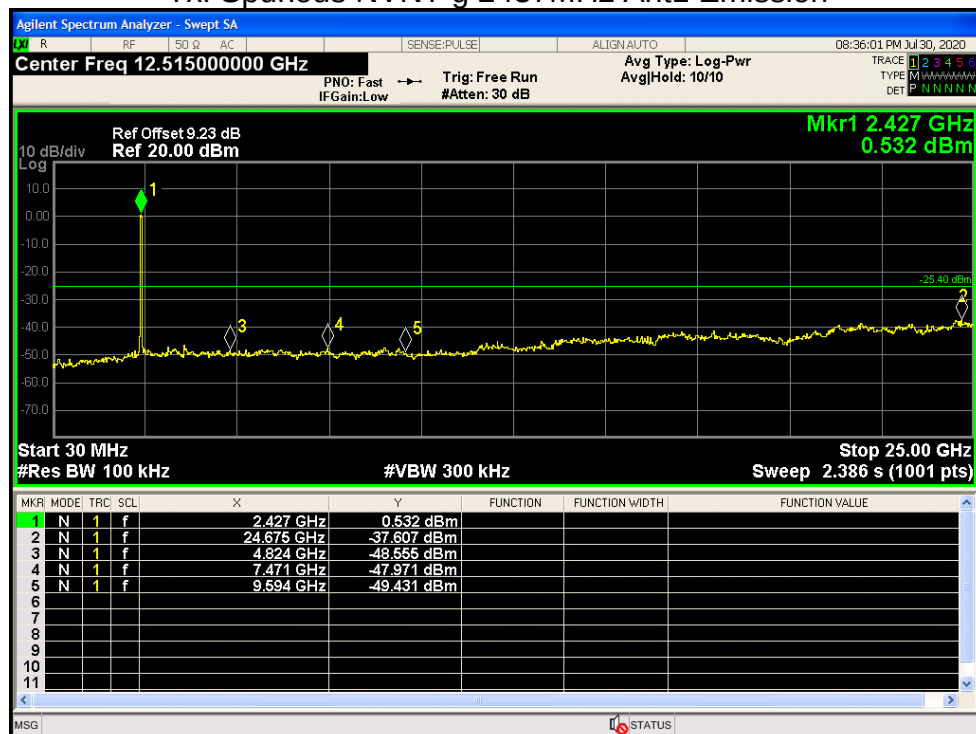
Tx. Spurious NVNT g 2412MHz Ant1 Emission



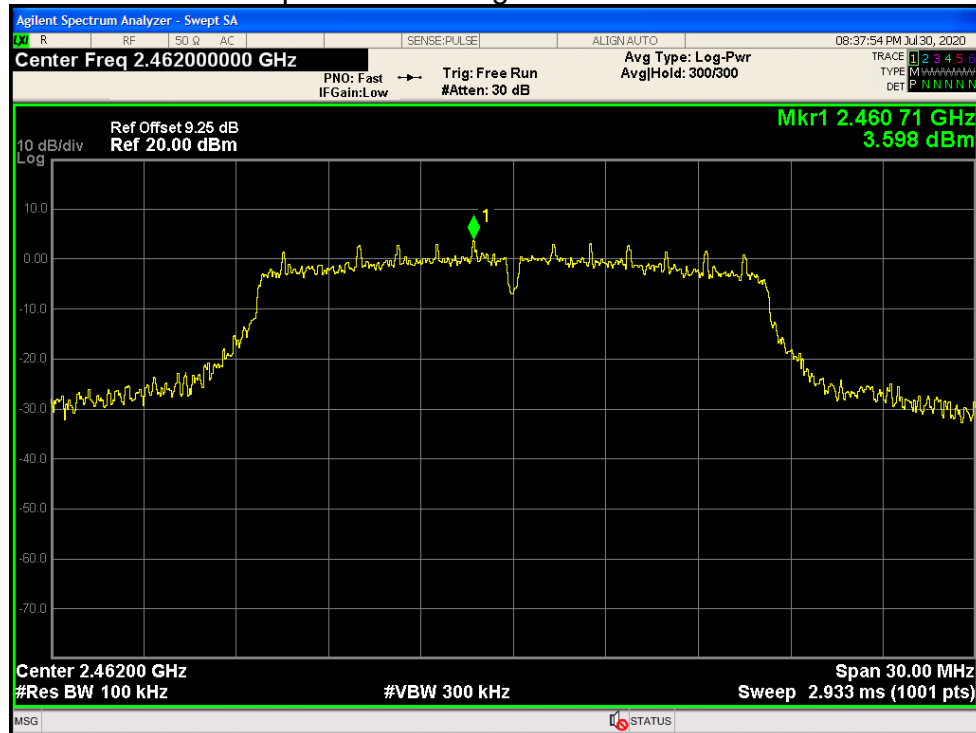
Tx. Spurious NVNT g 2437MHz Ant1 Ref



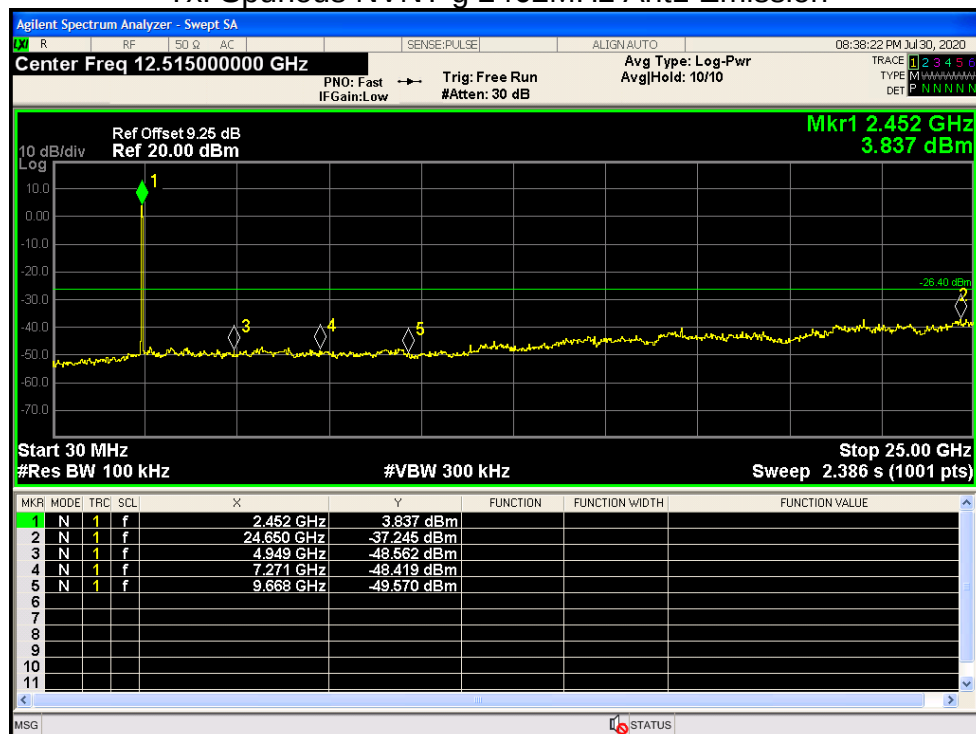
Tx. Spurious NVNT g 2437MHz Ant1 Emission



Tx. Spurious NVNT g 2462MHz Ant1 Ref

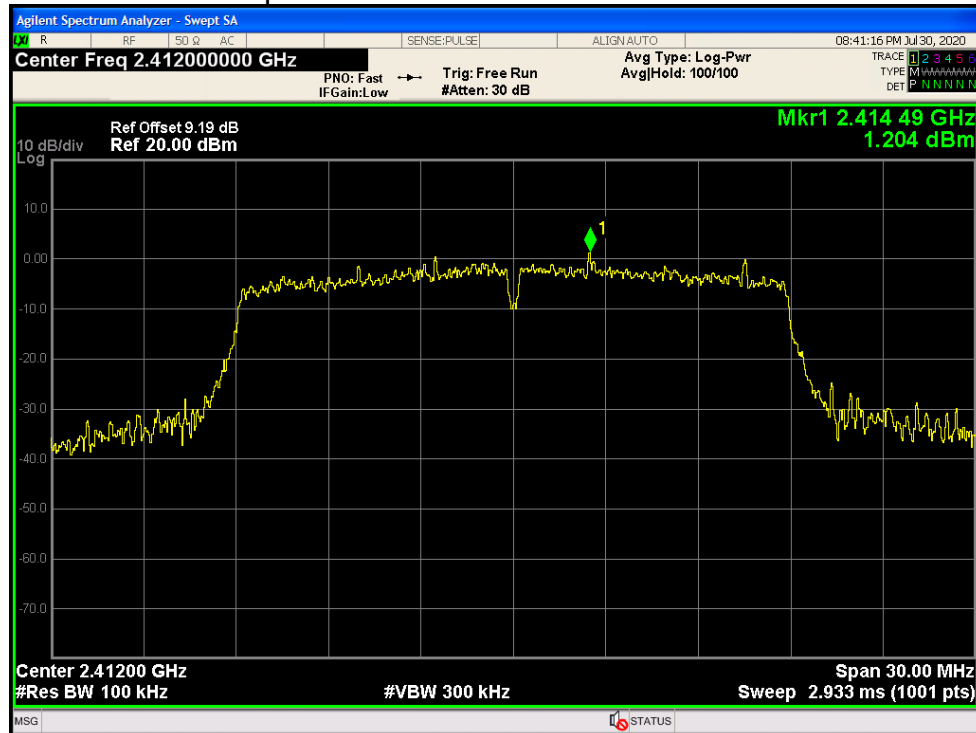


Tx. Spurious NVNT g 2462MHz Ant1 Emission

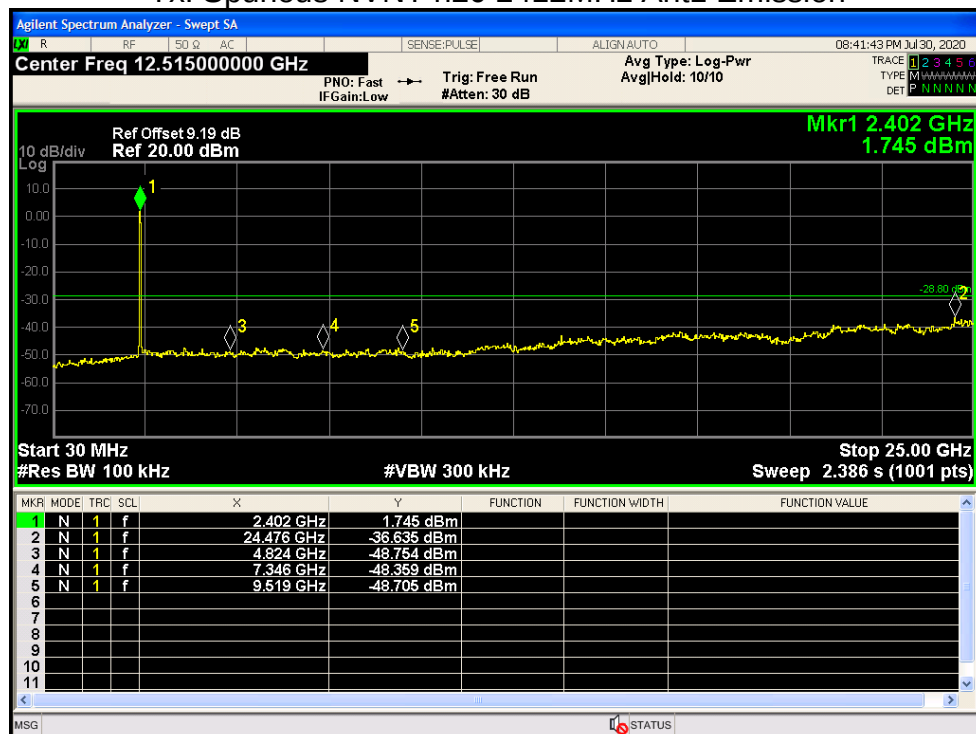


MRK	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.452 GHz	3.837 dBm			
2	N	1	f	24.650 GHz	-37.245 dBm			
3	N	1	f	49.49 GHz	-48.562 dBm			
4	N	1	f	7.271 GHz	-48.419 dBm			
5	N	1	f	9.668 GHz	-49.570 dBm			
6								
7								
8								
9								
10								
11								

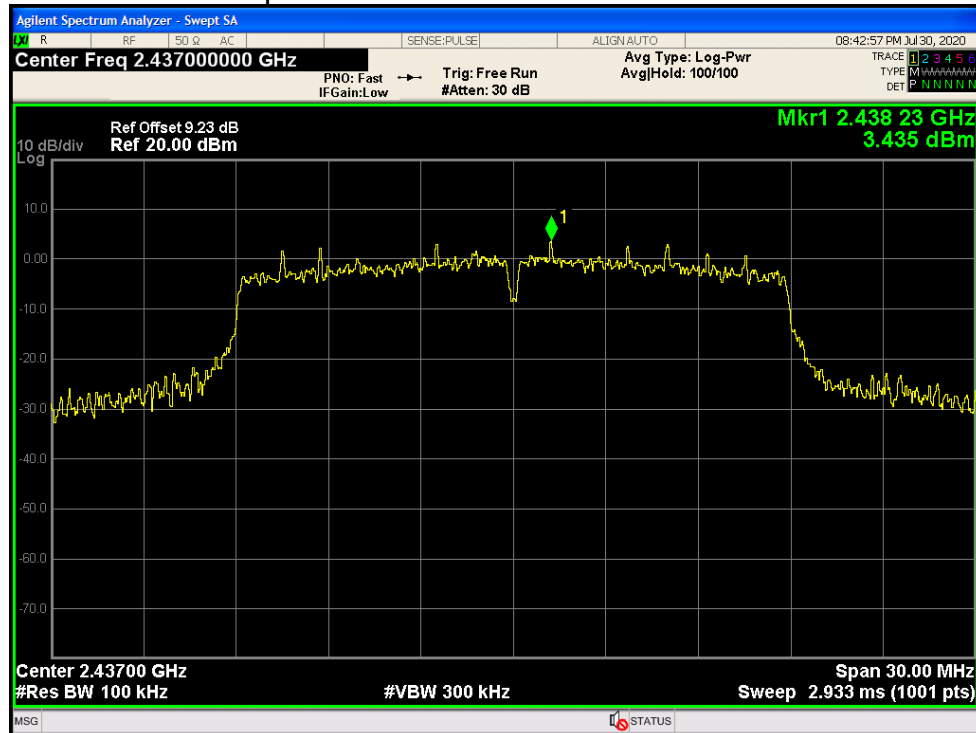
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



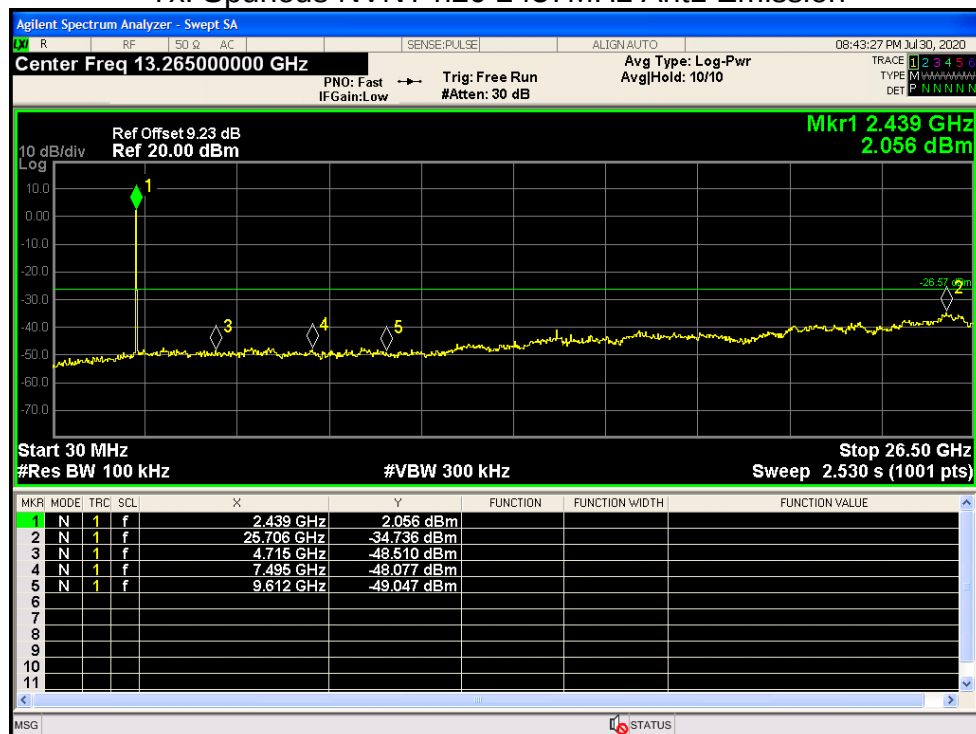
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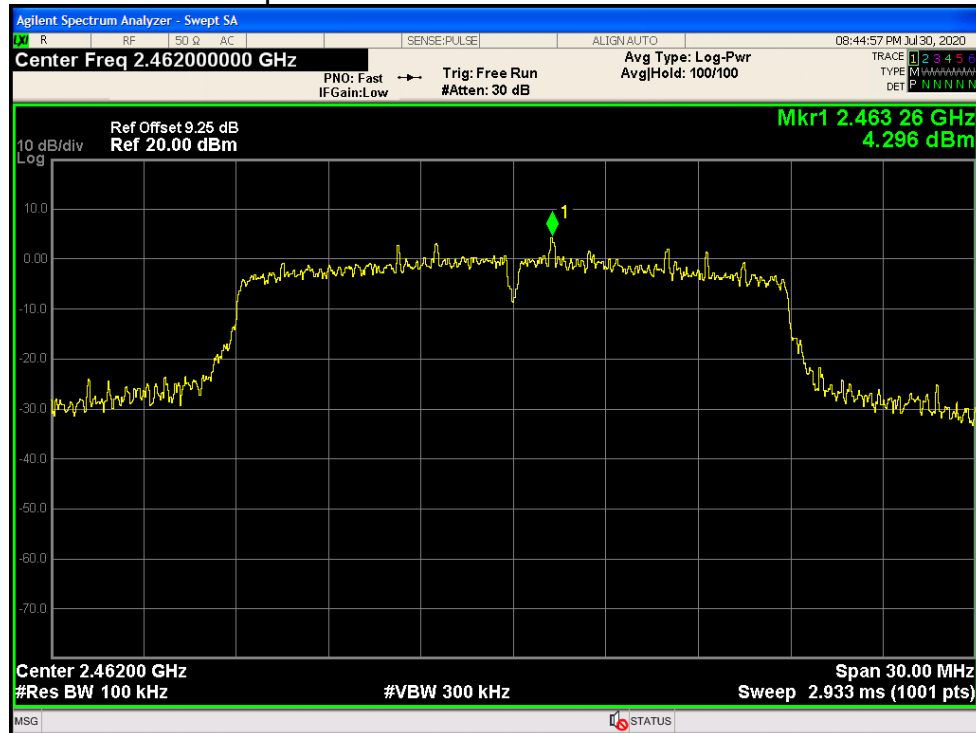
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



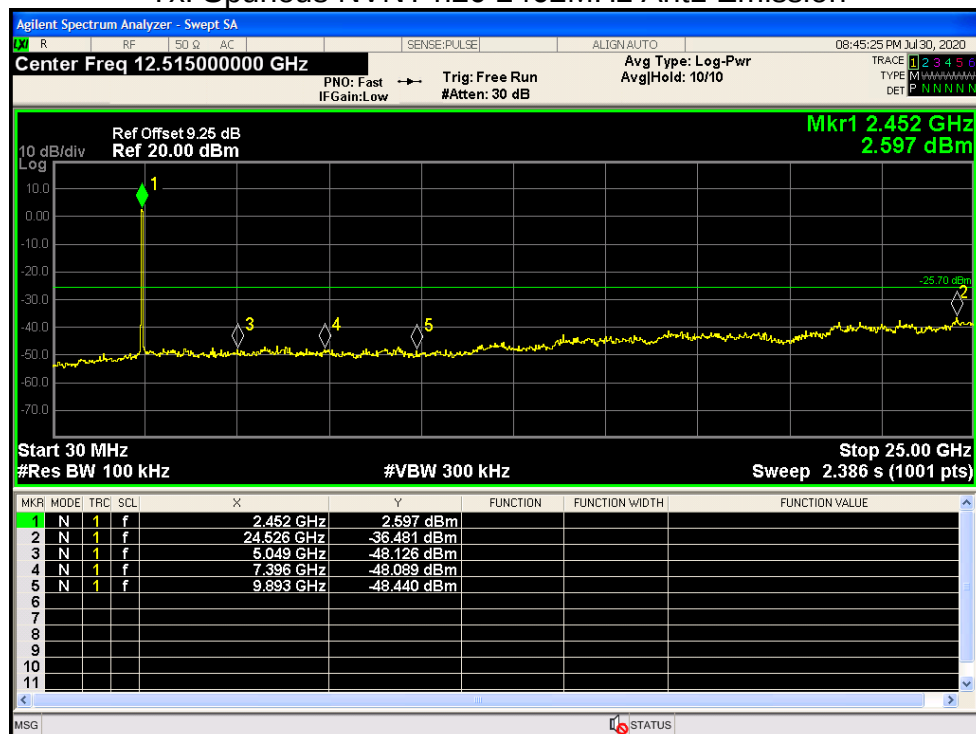
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



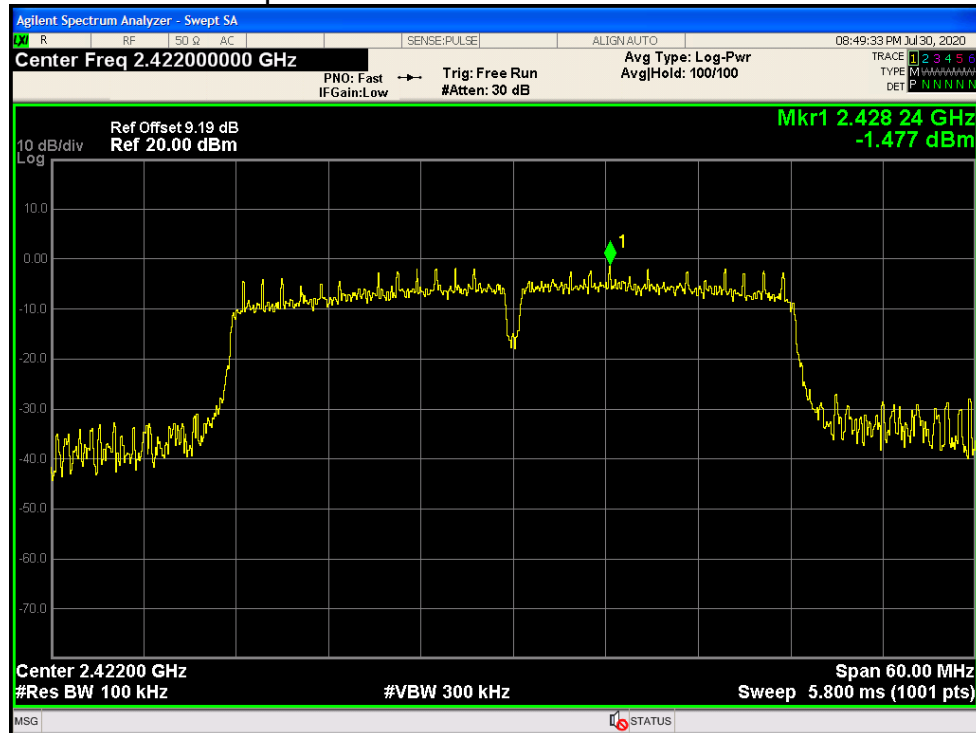
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



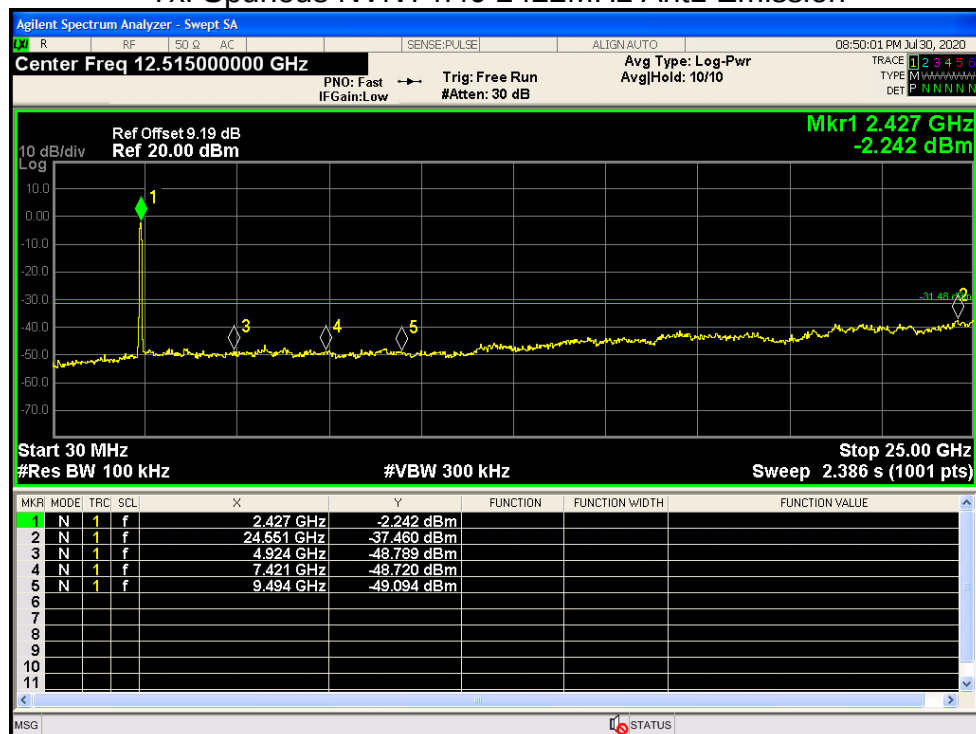
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref



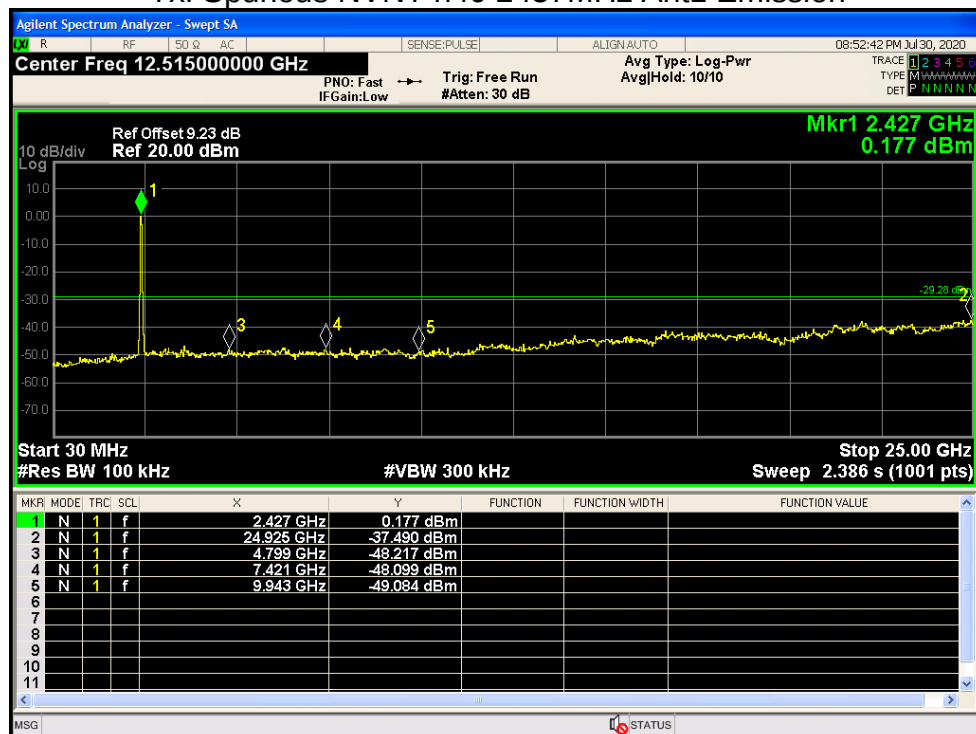
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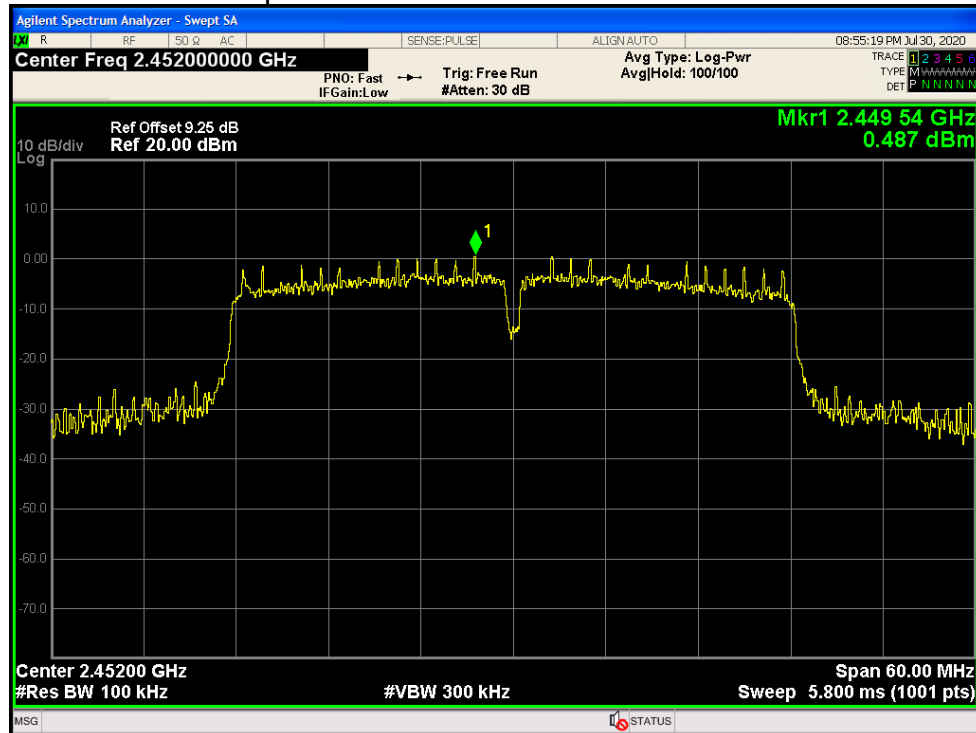
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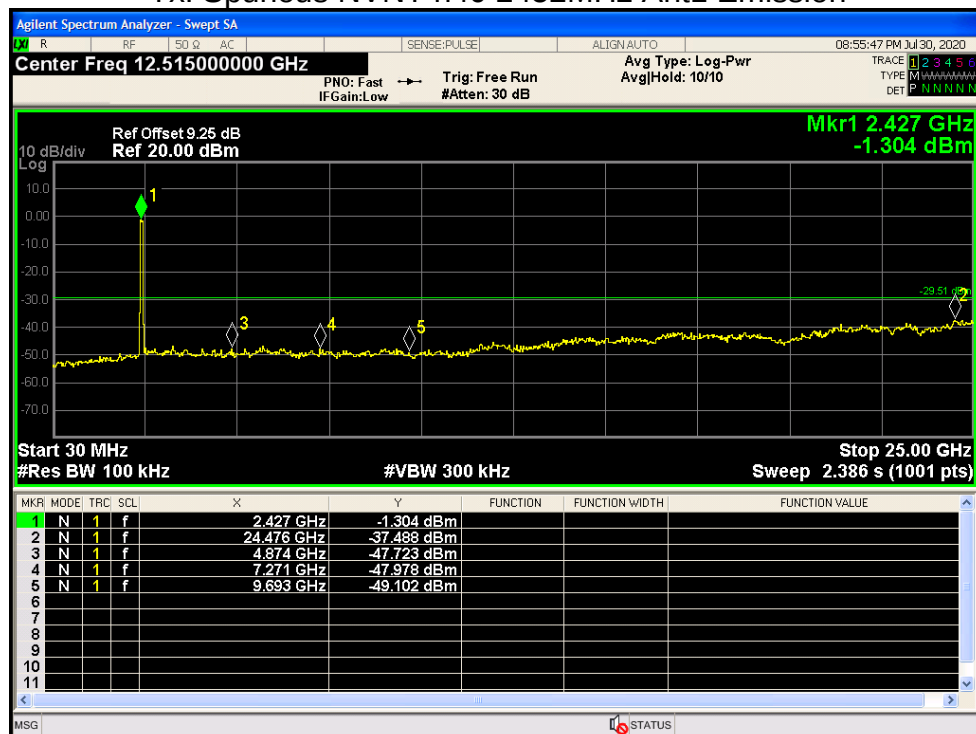
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



-----End of report-----