



## Appendix C

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Mobile phone

Test Model: A07

#### Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Nick Peng





### C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant	8.579	$\geq 0.5$	Pass
NVNT	b	2437	Ant	8.1	$\geq 0.5$	Pass
NVNT	b	2462	Ant	8.084	$\geq 0.5$	Pass
NVNT	g	2412	Ant	15.699	$\geq 0.5$	Pass
NVNT	g	2437	Ant	16.352	$\geq 0.5$	Pass
NVNT	g	2462	Ant	16.045	$\geq 0.5$	Pass
NVNT	n20	2412	Ant	16.447	$\geq 0.5$	Pass
NVNT	n20	2437	Ant	17.377	$\geq 0.5$	Pass
NVNT	n20	2462	Ant	16.856	$\geq 0.5$	Pass

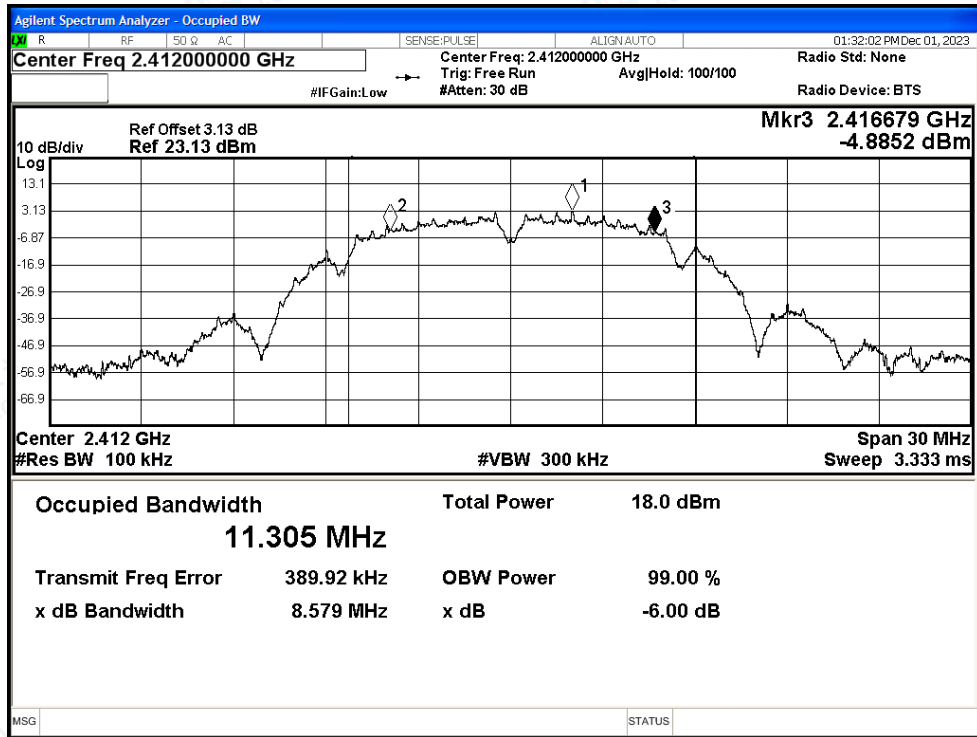


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Scan code to check authenticity

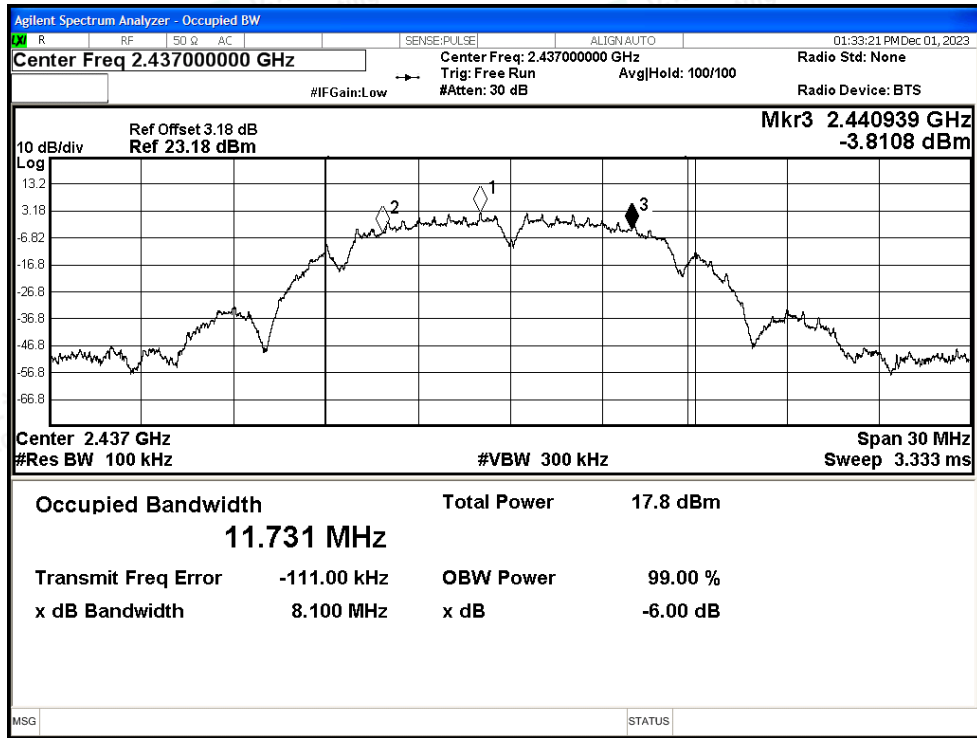


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant

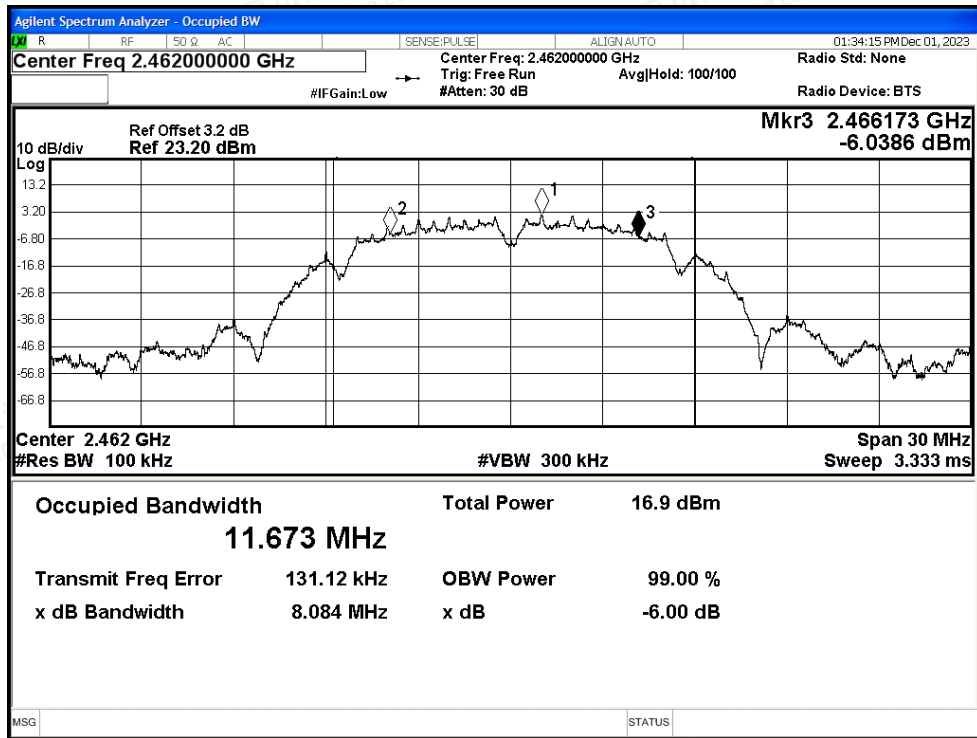


-6dB Bandwidth NVNT b 2437MHz Ant

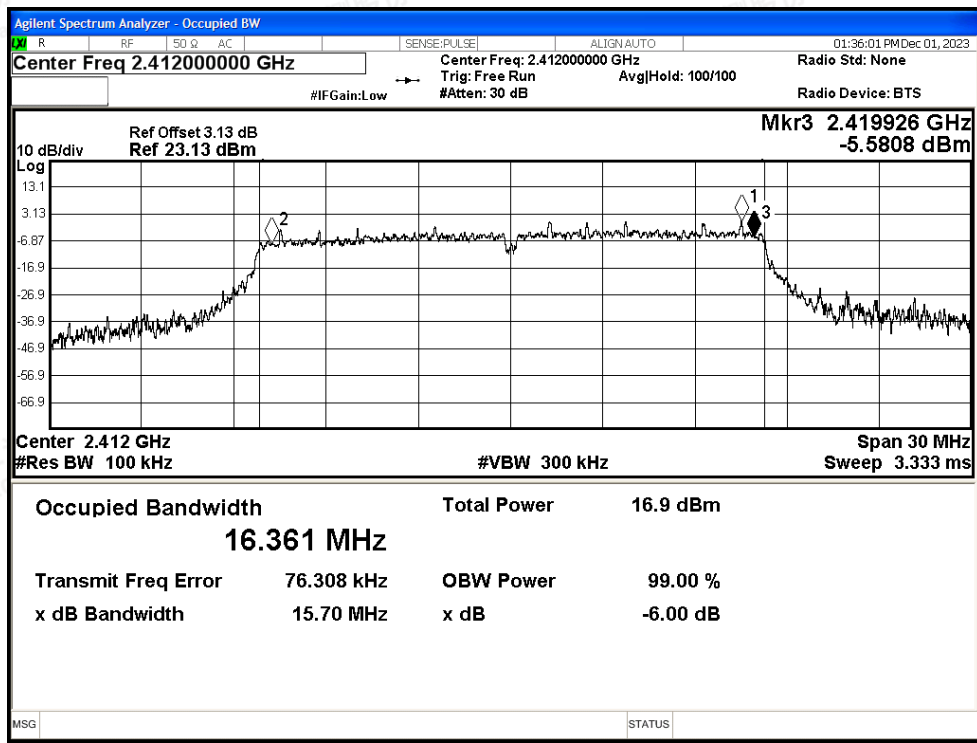




-6dB Bandwidth NVNT b 2462MHz Ant

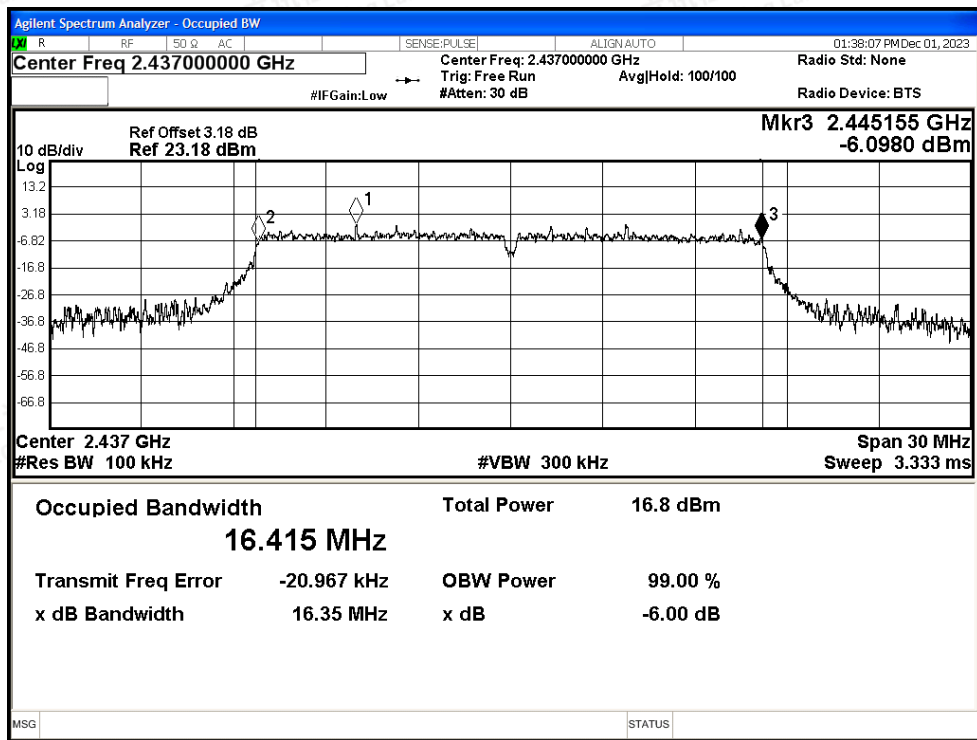


-6dB Bandwidth NVNT g 2412MHz Ant

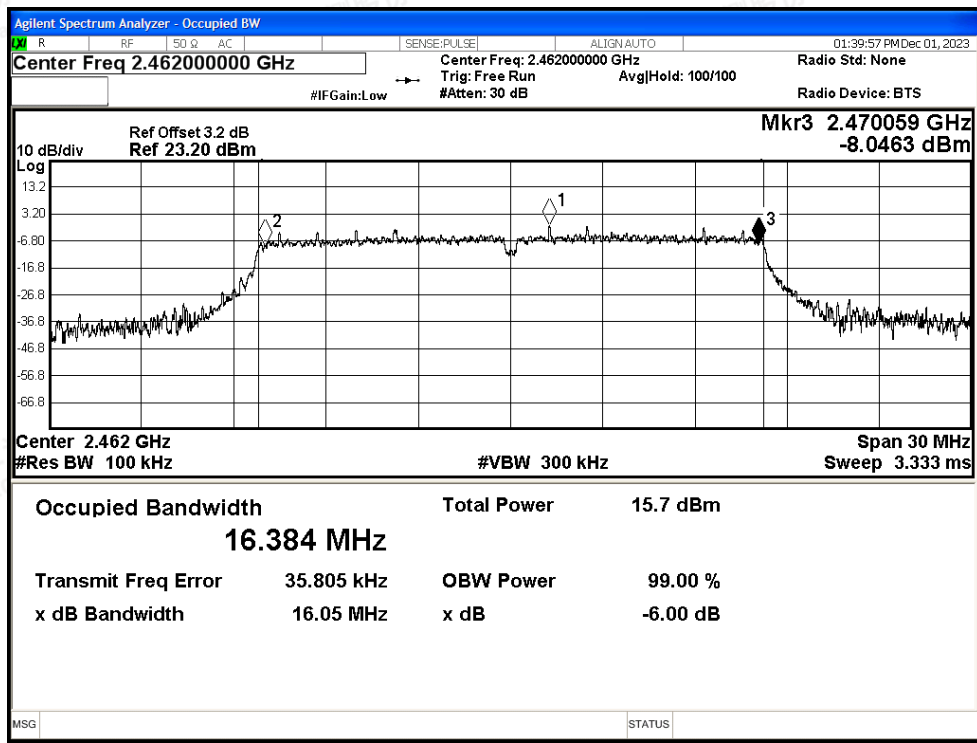




-6dB Bandwidth NVNT g 2437MHz Ant

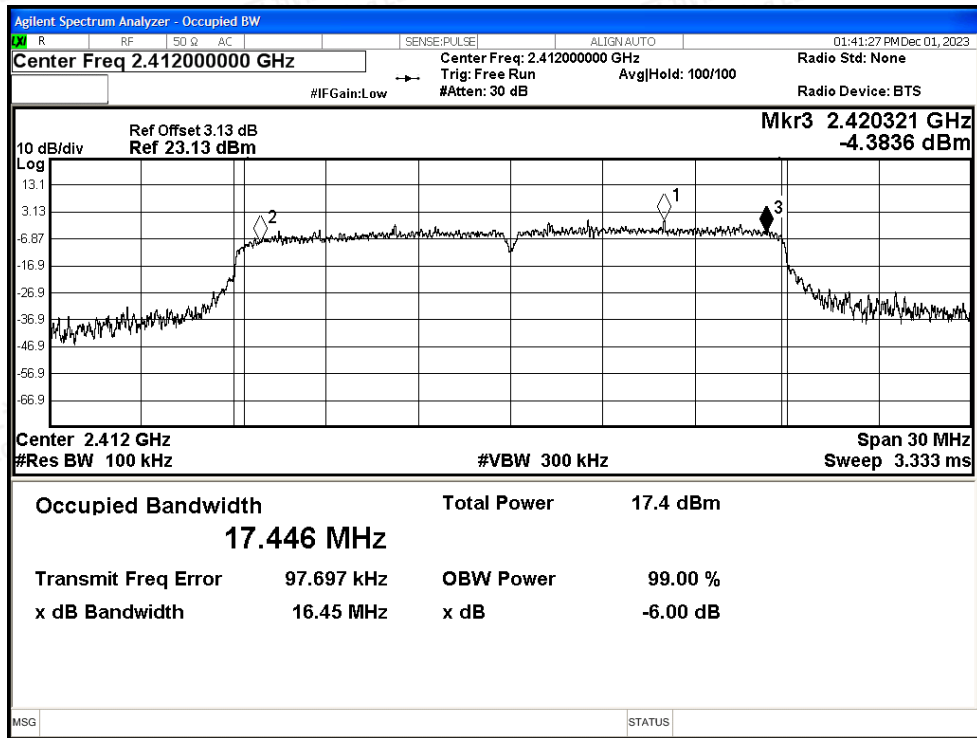


-6dB Bandwidth NVNT g 2462MHz Ant

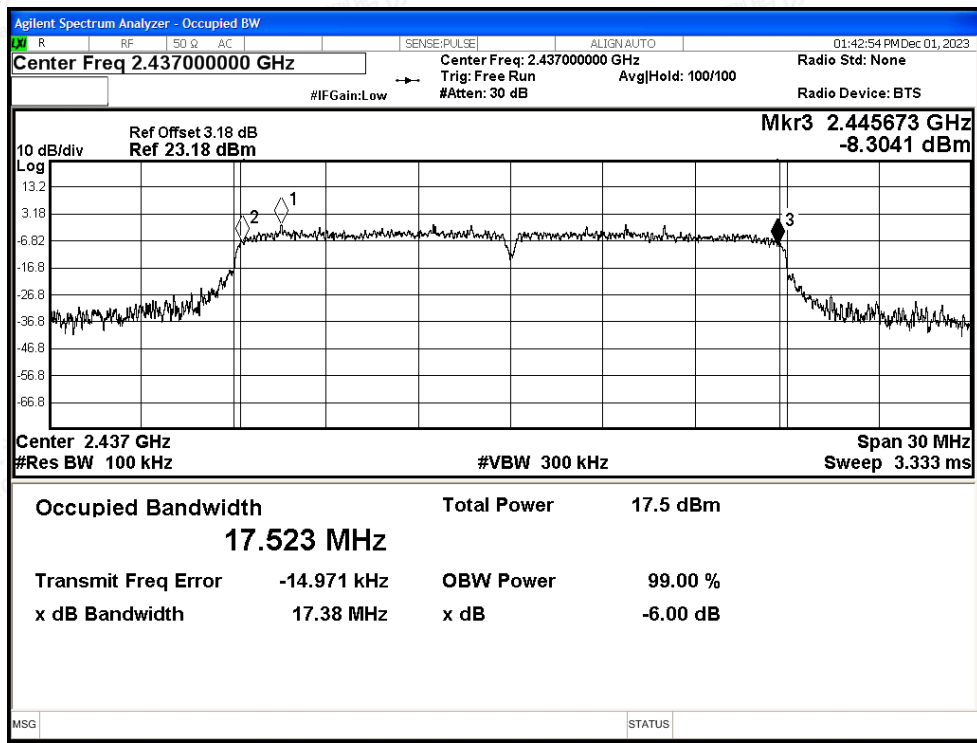


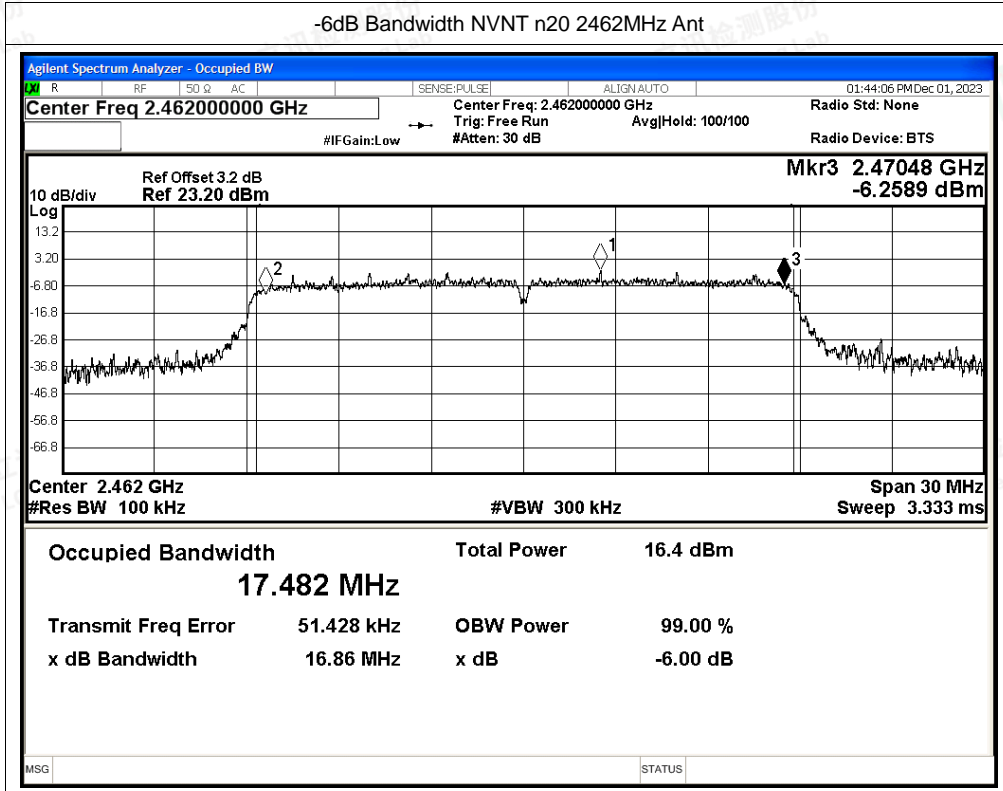


-6dB Bandwidth NVNT n20 2412MHz Ant



-6dB Bandwidth NVNT n20 2437MHz Ant







## C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant	13.09	30	Pass
NVNT	b	2437	Ant	12.84	30	Pass
NVNT	b	2462	Ant	11.93	30	Pass
NVNT	g	2412	Ant	15.54	30	Pass
NVNT	g	2437	Ant	15.54	30	Pass
NVNT	g	2462	Ant	14.43	30	Pass
NVNT	n20	2412	Ant	16.05	30	Pass
NVNT	n20	2437	Ant	16.08	30	Pass
NVNT	n20	2462	Ant	14.93	30	Pass







### C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant	-10.51	8	Pass
NVNT	b	2437	Ant	-10.56	8	Pass
NVNT	b	2462	Ant	-8.72	8	Pass
NVNT	g	2412	Ant	-14.94	8	Pass
NVNT	g	2437	Ant	-15.23	8	Pass
NVNT	g	2462	Ant	-16.03	8	Pass
NVNT	n20	2412	Ant	-14.32	8	Pass
NVNT	n20	2437	Ant	-13.1	8	Pass
NVNT	n20	2462	Ant	-15.06	8	Pass

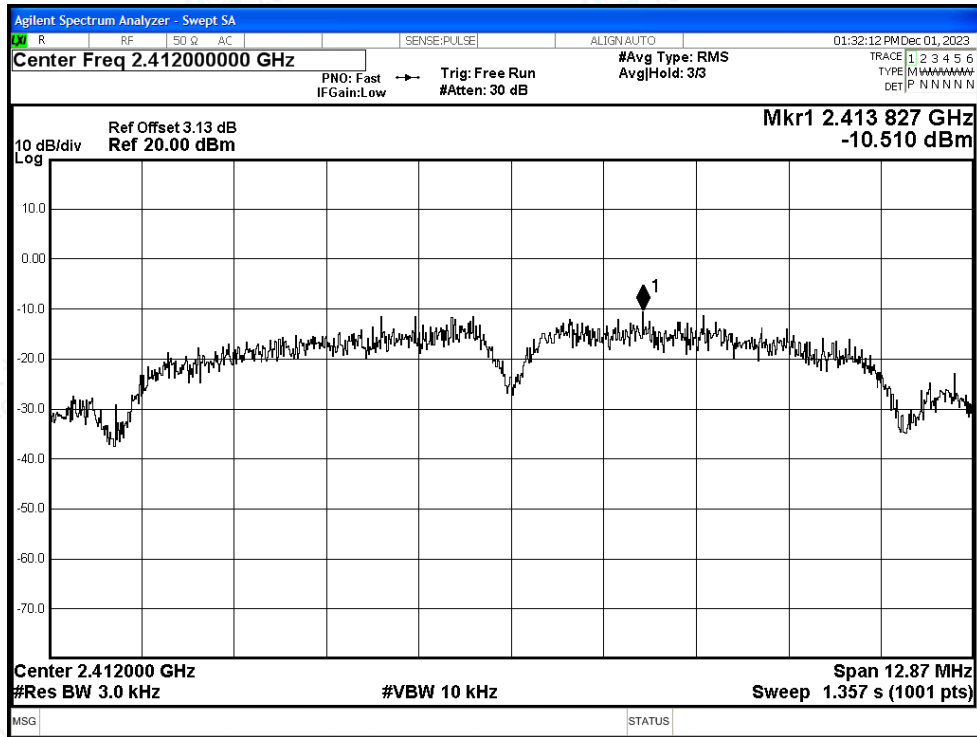


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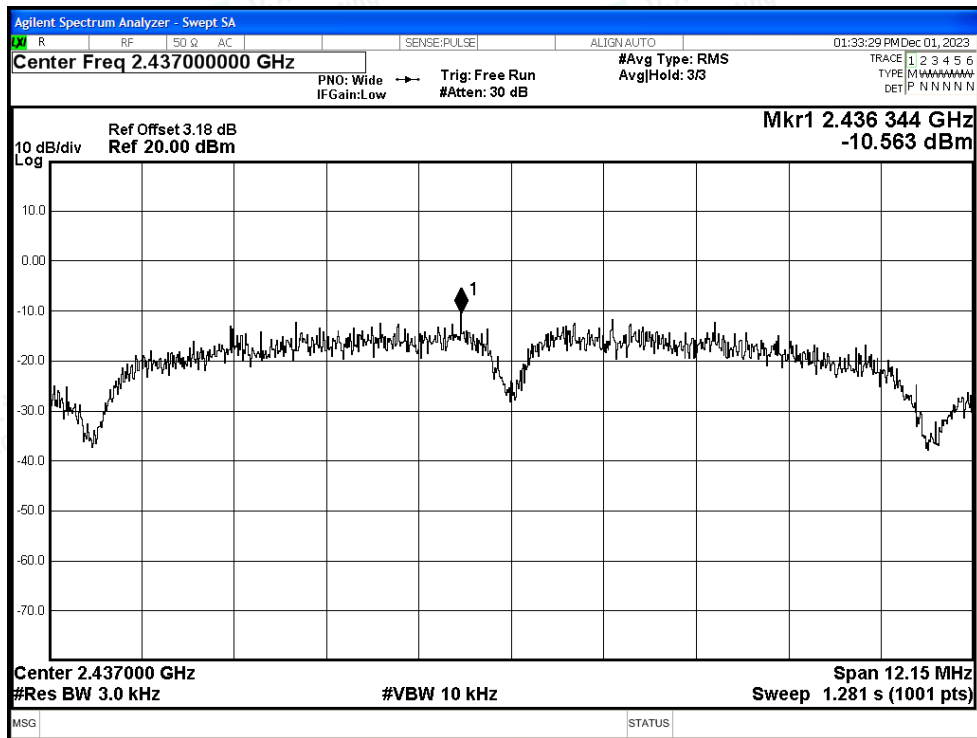


Test Graphs

PSD NVNT b 2412MHz Ant

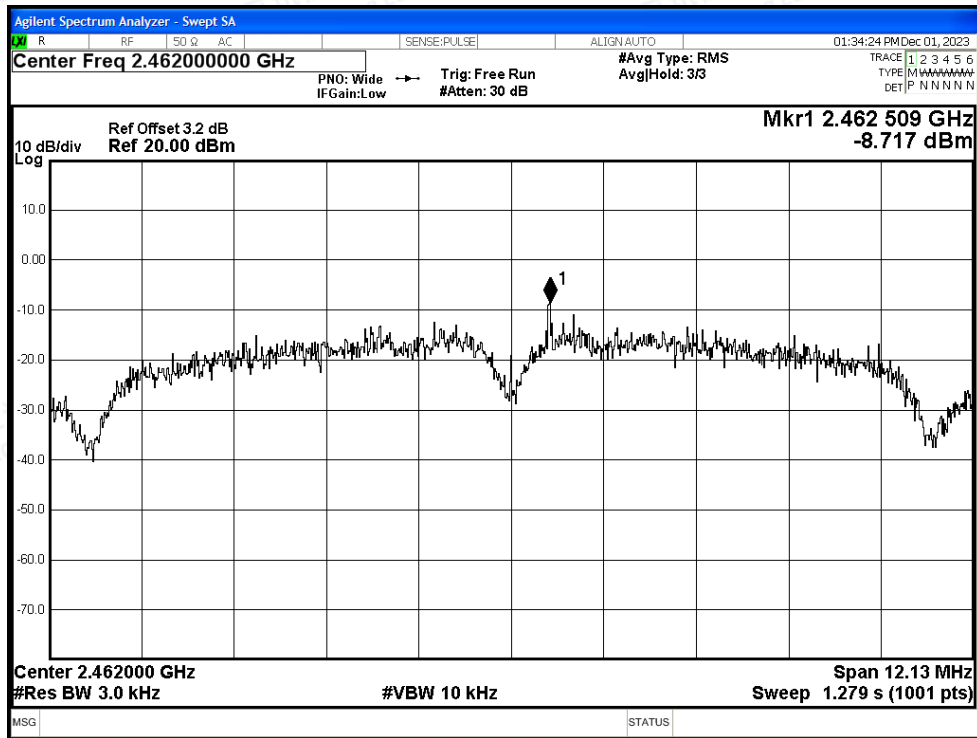


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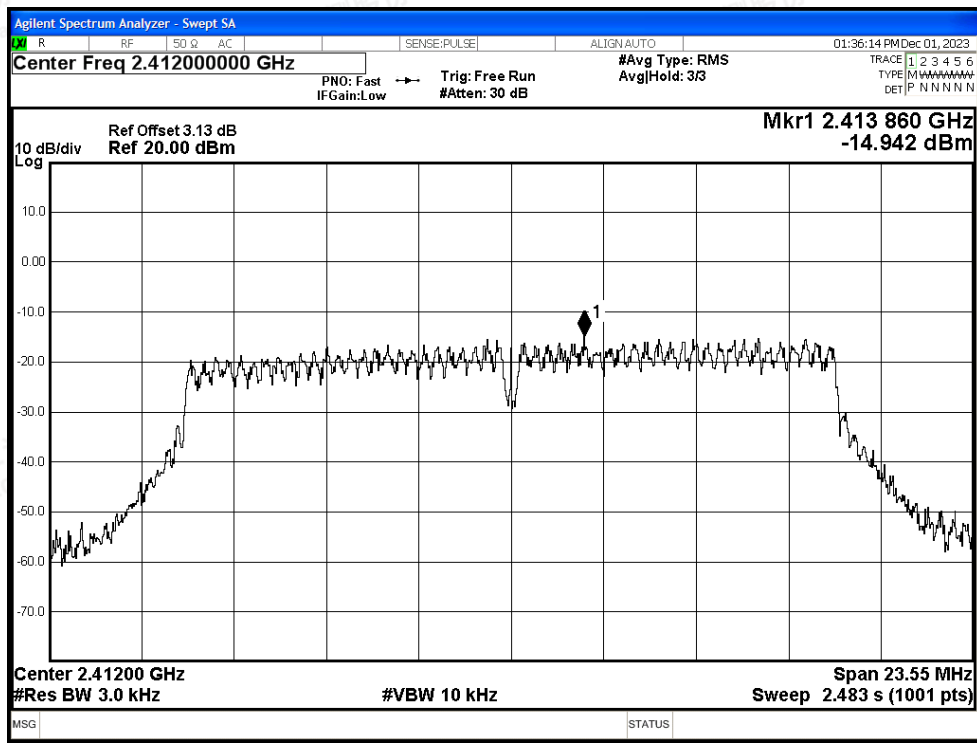




PSD NVNT b 2462MHz Ant

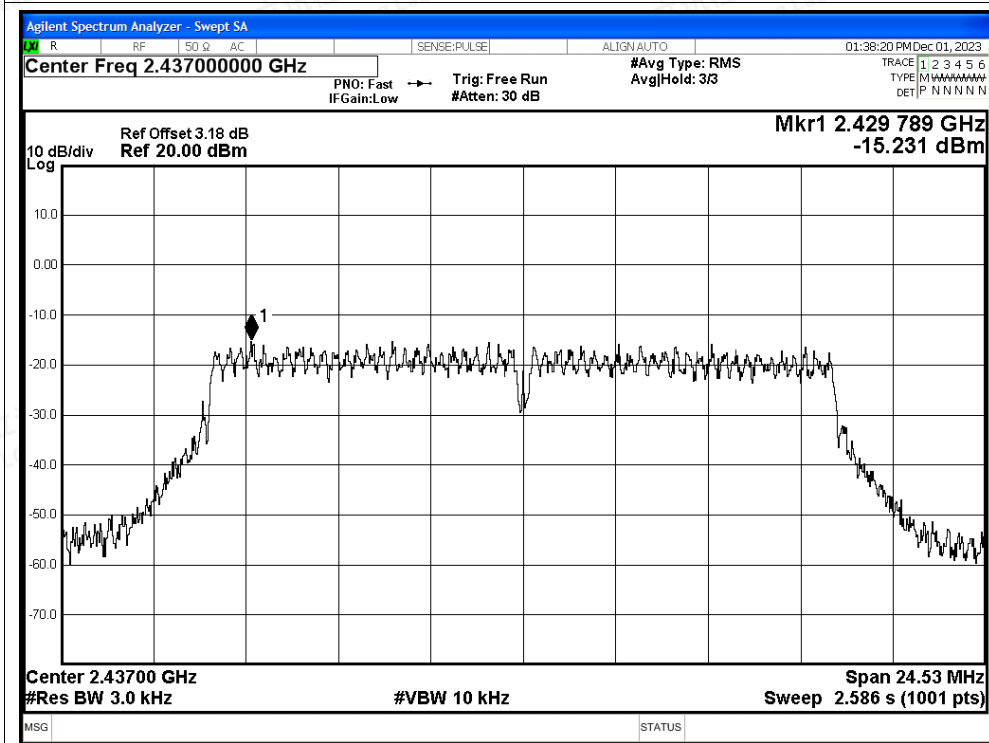


PSD NVNT g 2412MHz Ant

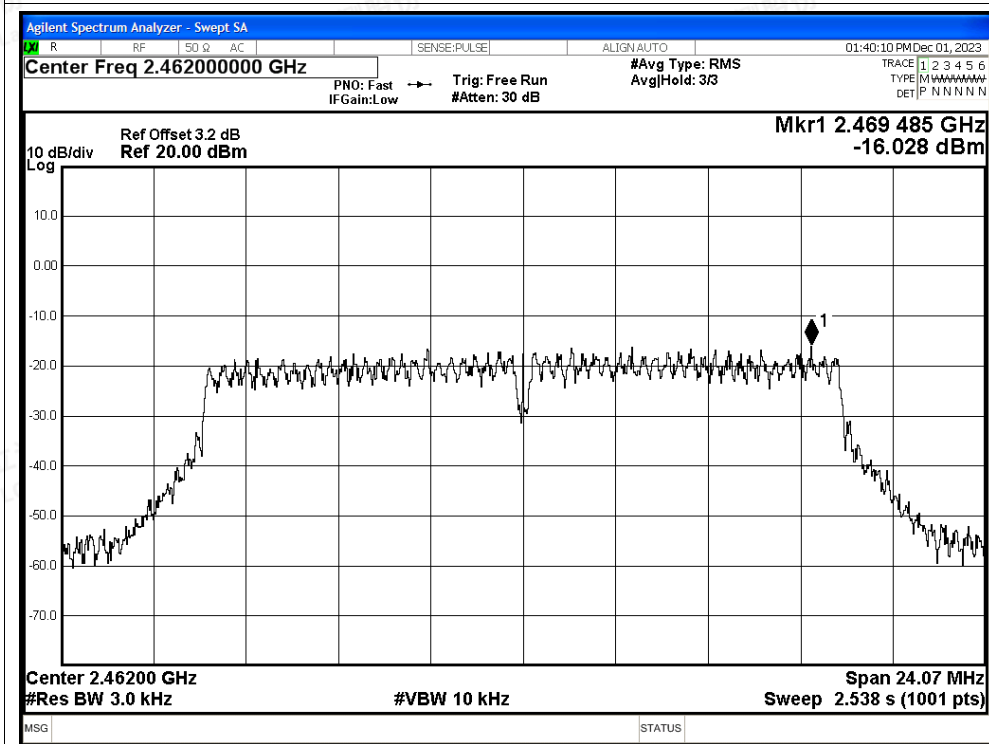


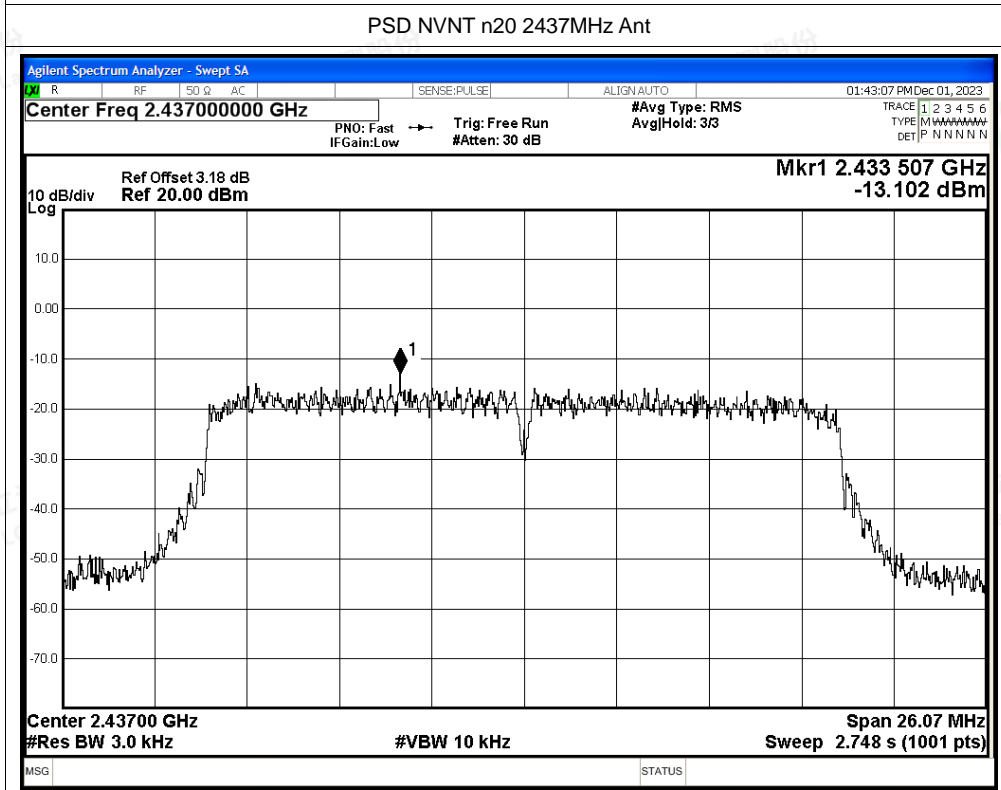
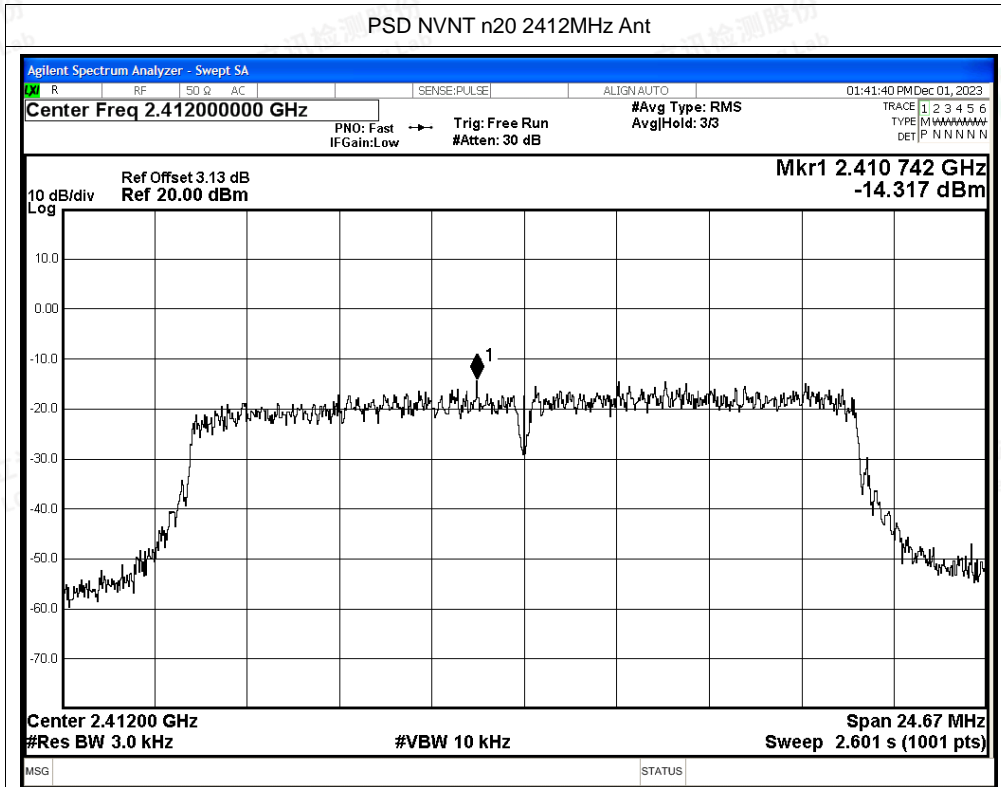


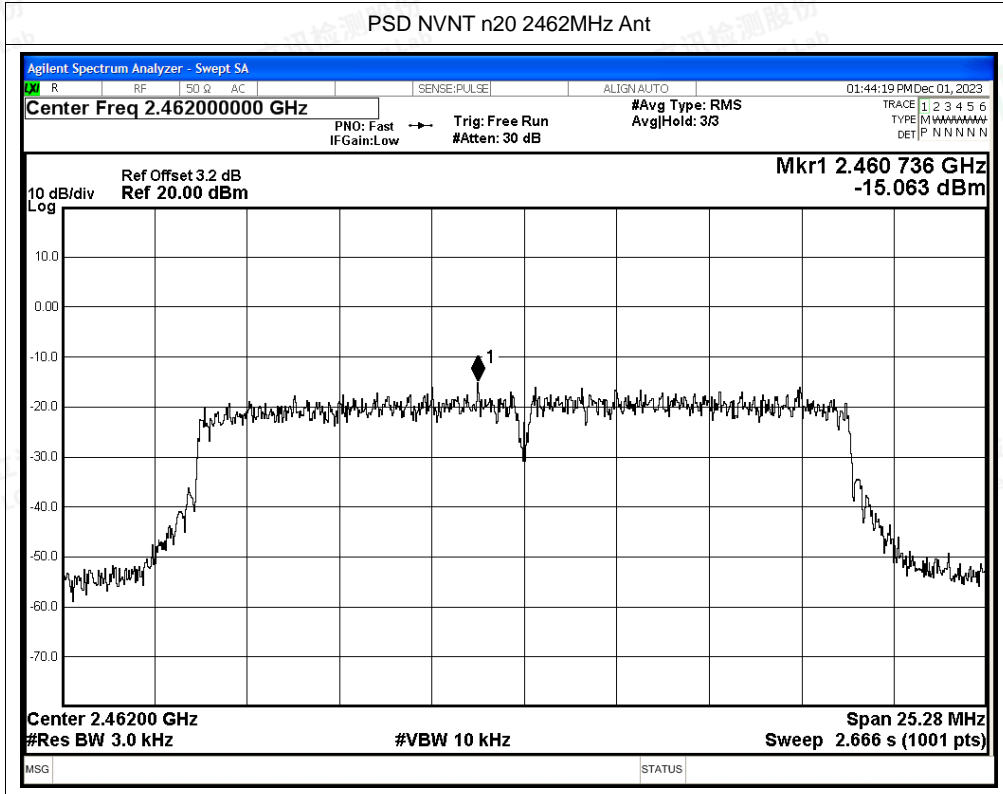
PSD NVNT g 2437MHz Ant



PSD NVNT g 2462MHz Ant









### C.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-50.47	-20	Pass
NVNT	b	2462	Ant	-55.05	-20	Pass
NVNT	g	2412	Ant	-32.45	-20	Pass
NVNT	g	2462	Ant	-42.19	-20	Pass
NVNT	n20	2412	Ant	-34.2	-20	Pass
NVNT	n20	2462	Ant	-39.84	-20	Pass

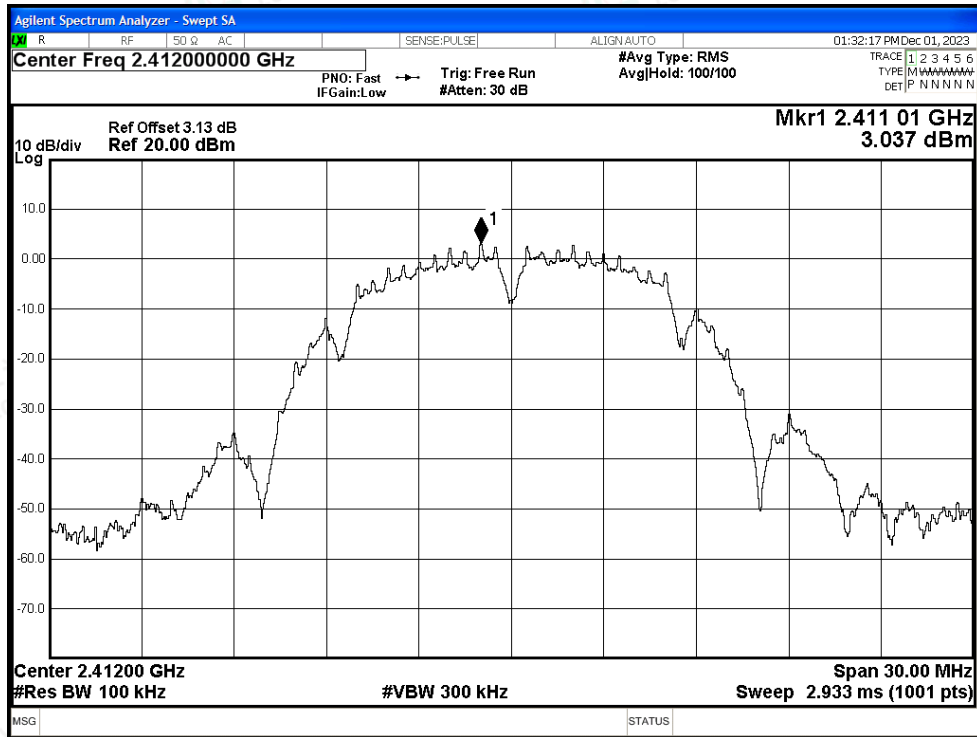


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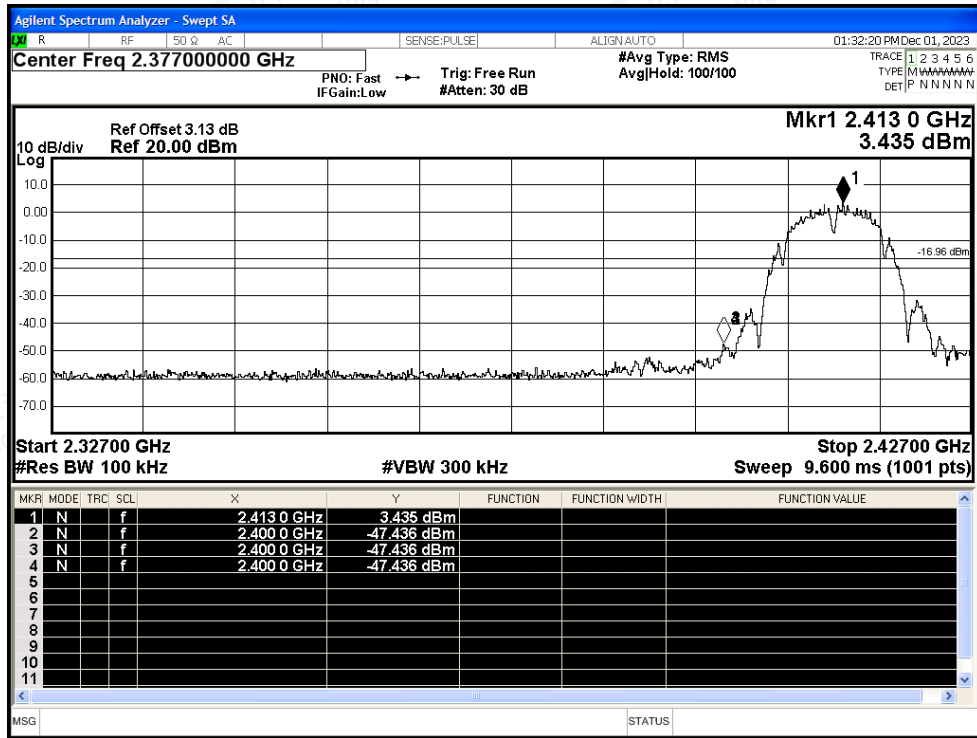


Test Graphs

Band Edge NVNT b 2412MHz Ant Ref



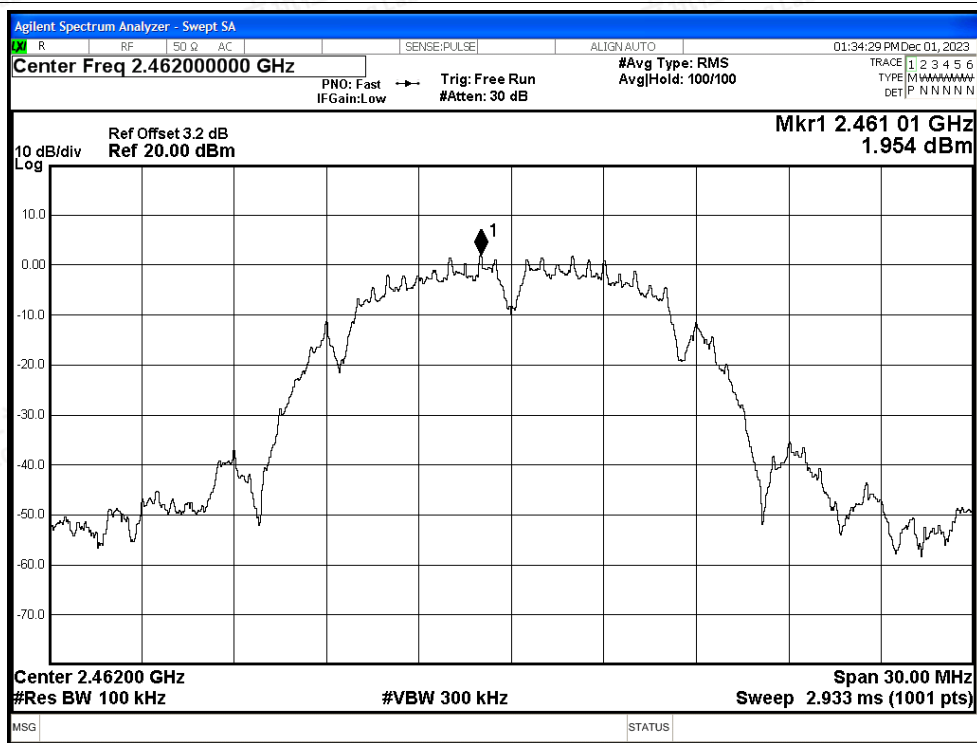
Band Edge NVNT b 2412MHz Ant Emission



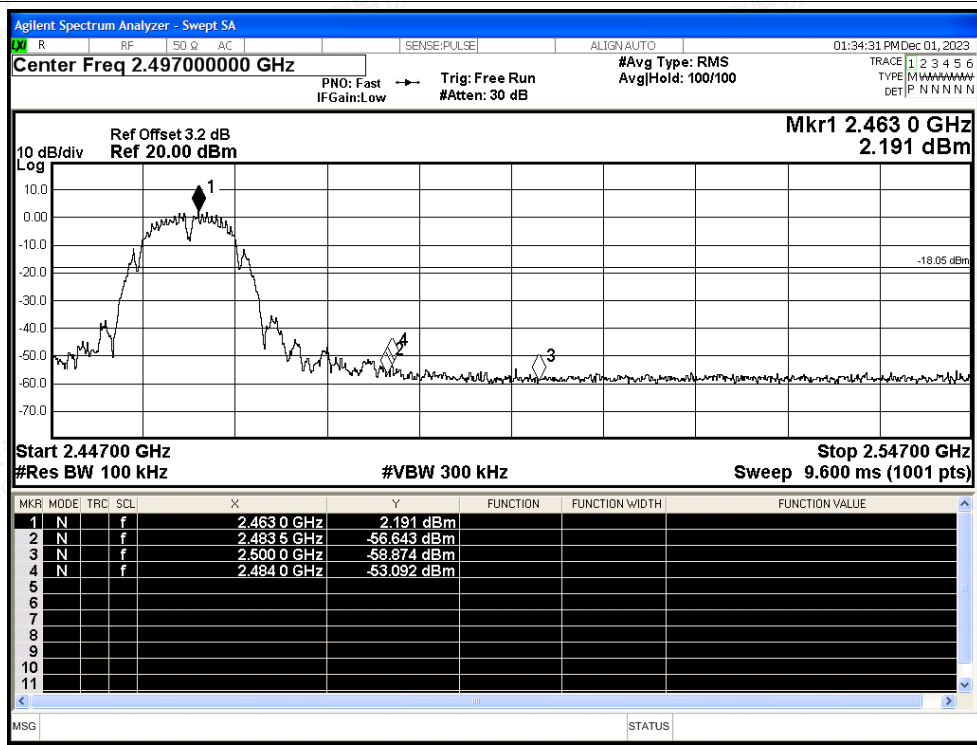




Band Edge NVNT b 2462MHz Ant Ref

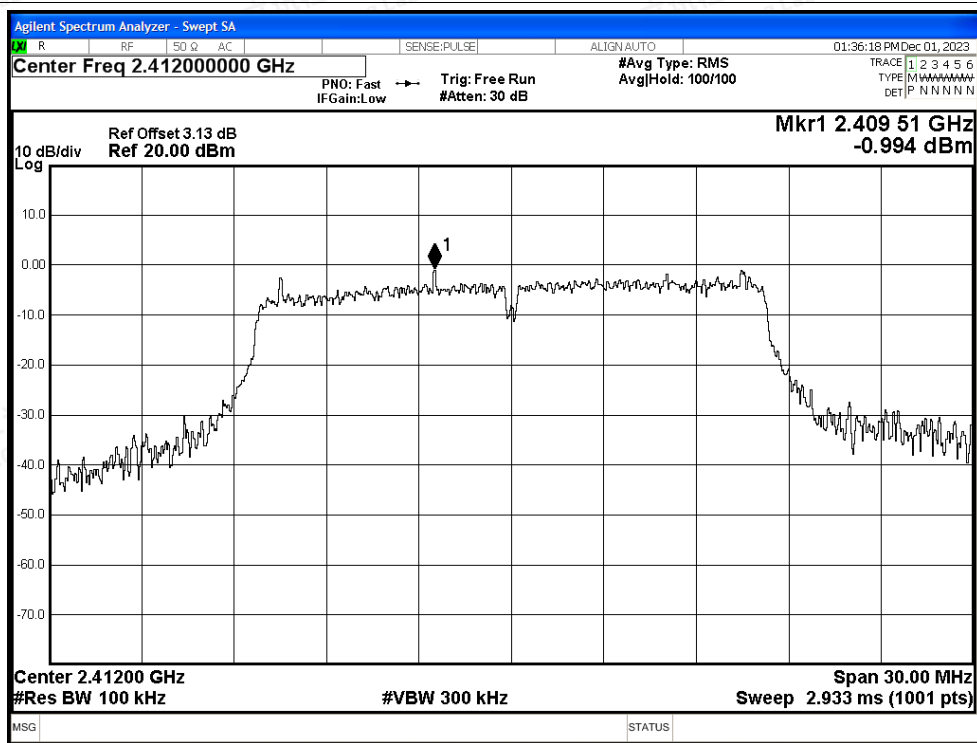


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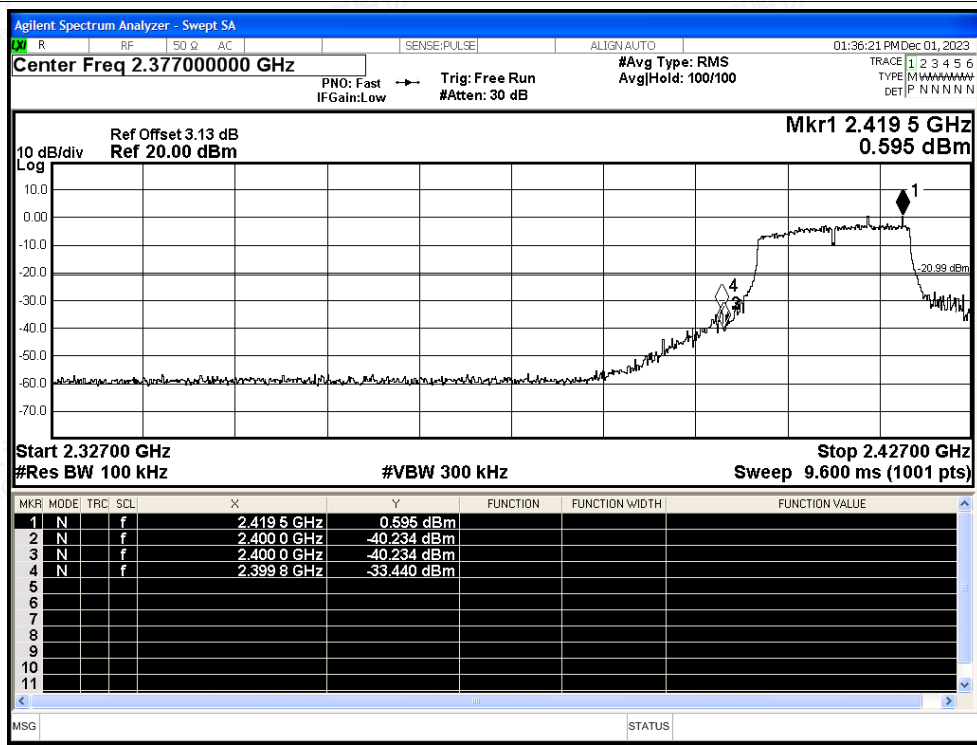




Band Edge NVNT g 2412MHz Ant Ref

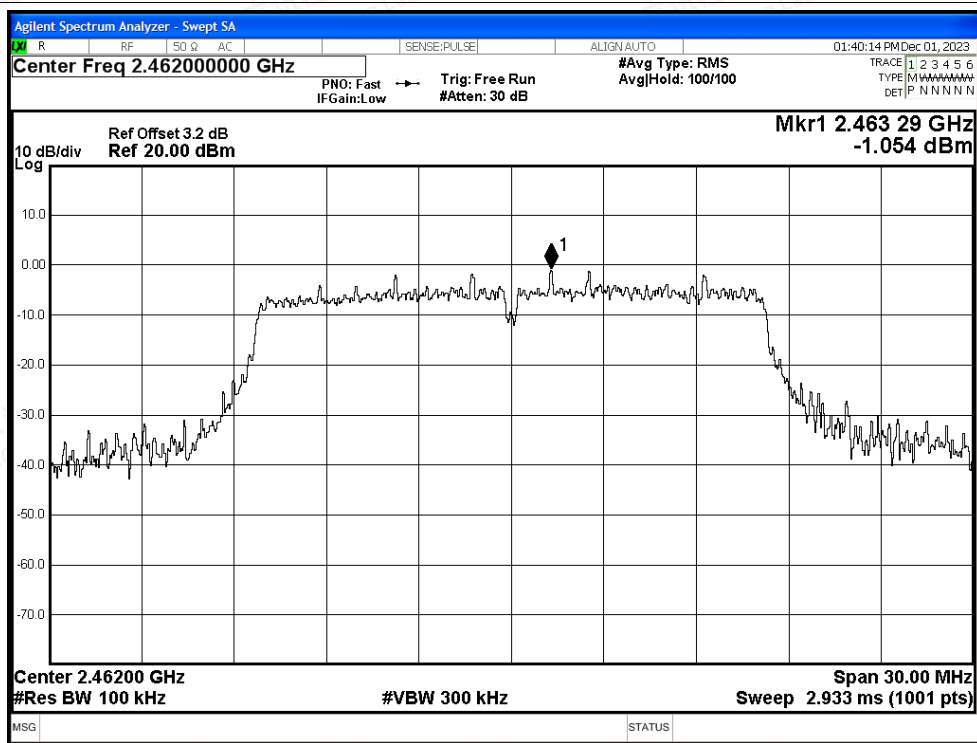


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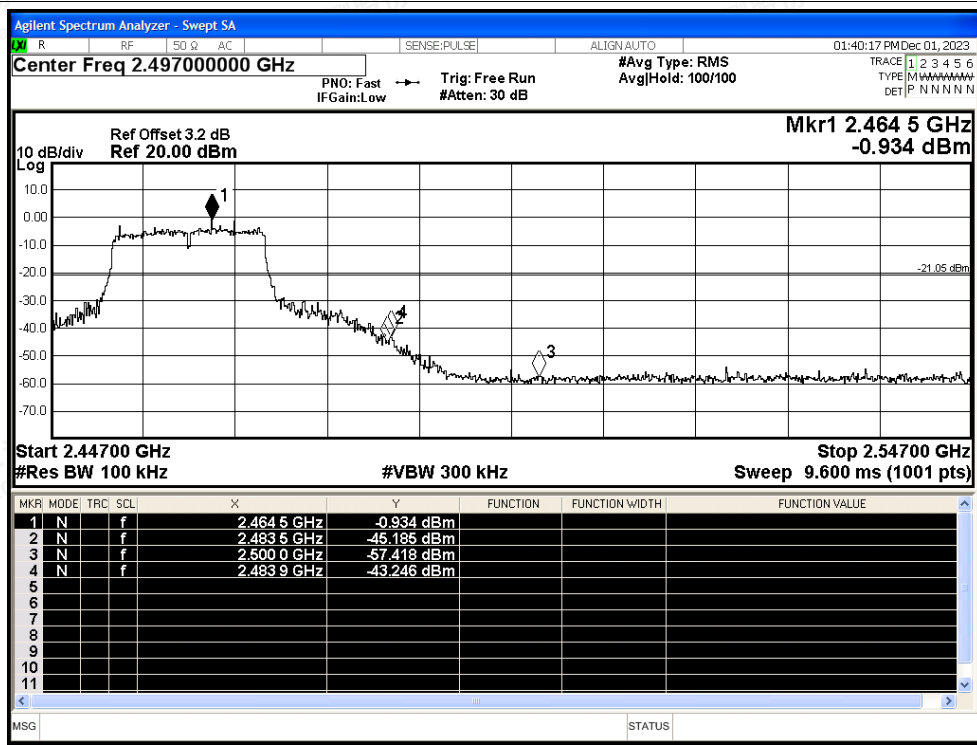




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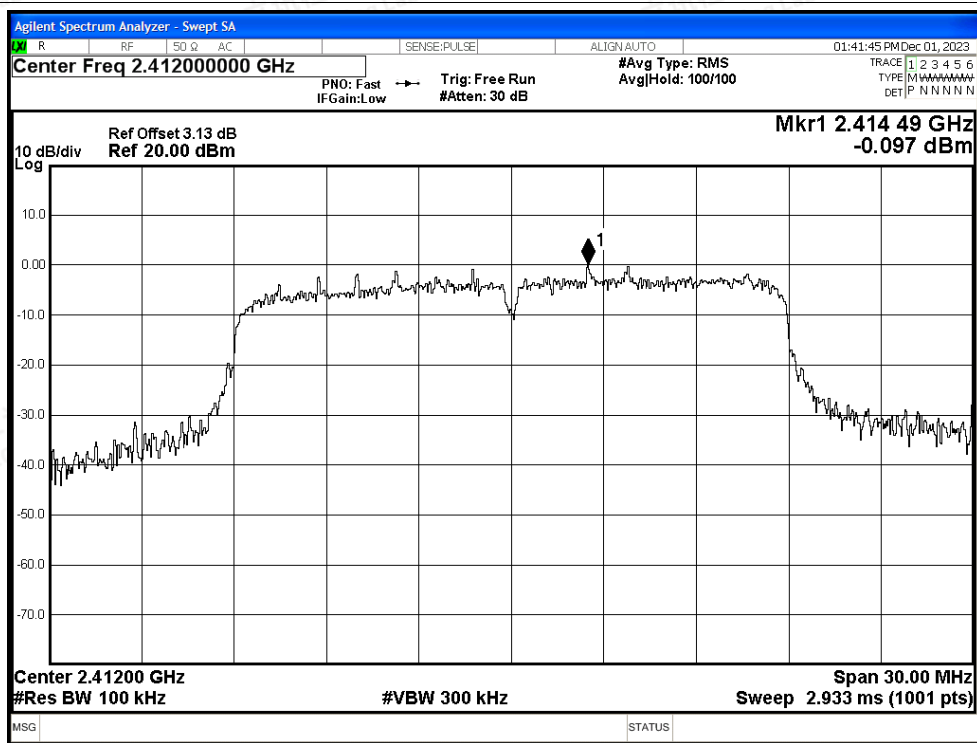


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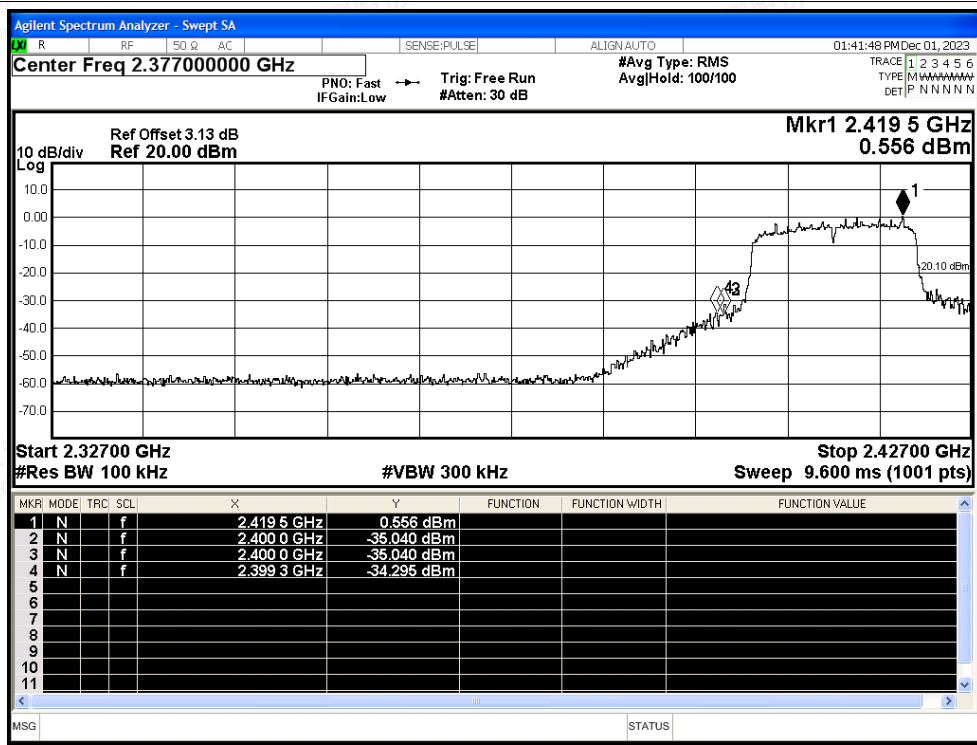




Band Edge NVNT n20 2412MHz Ant Ref

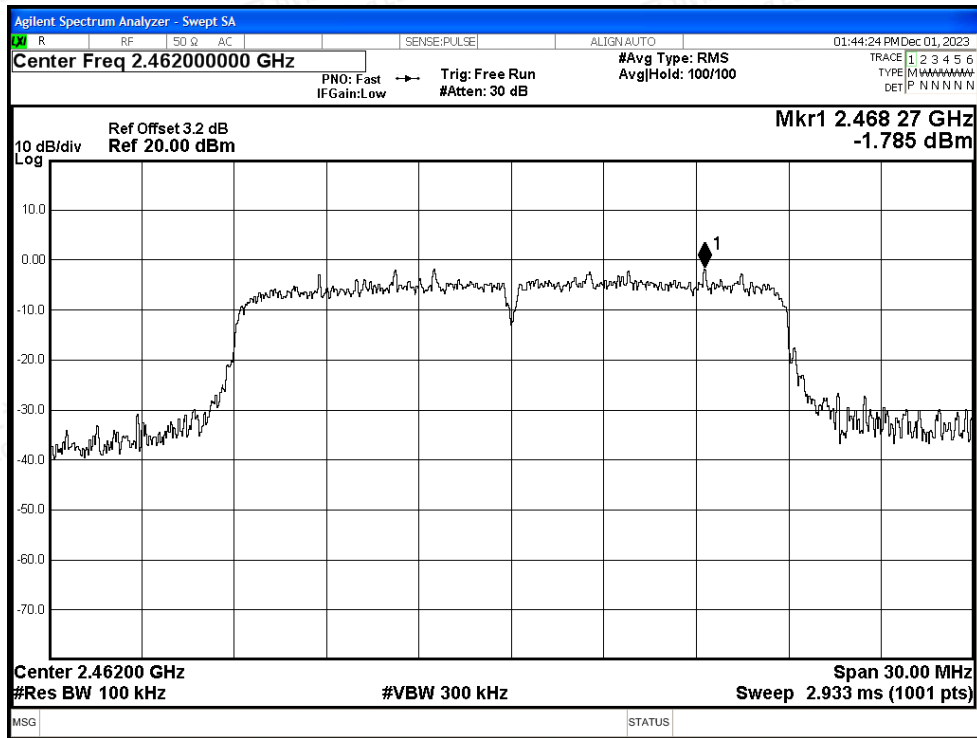


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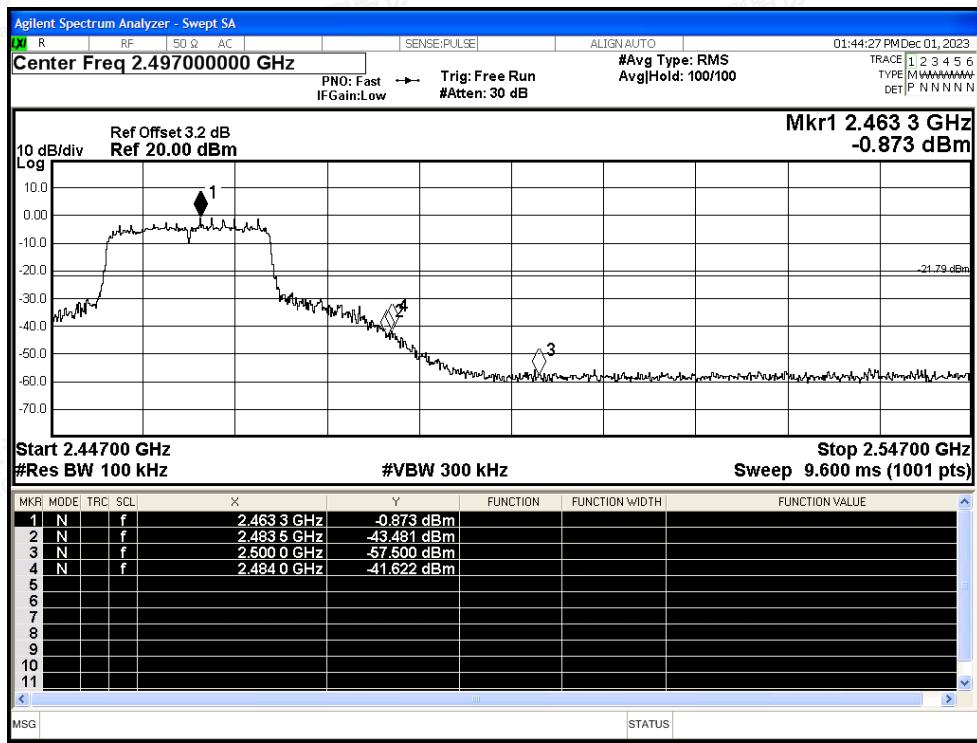




Band Edge NVNT n20 2462MHz Ant Ref



Band Edge NVNT n20 2462MHz Ant Emission





### C.5 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant	-49.05	-20	Pass
NVNT	b	2437	Ant	-47.83	-20	Pass
NVNT	b	2462	Ant	-47.09	-20	Pass
NVNT	g	2412	Ant	-45.95	-20	Pass
NVNT	g	2437	Ant	-44.81	-20	Pass
NVNT	g	2462	Ant	-43.31	-20	Pass
NVNT	n20	2412	Ant	-45.56	-20	Pass
NVNT	n20	2437	Ant	-44.56	-20	Pass
NVNT	n20	2462	Ant	-42.55	-20	Pass

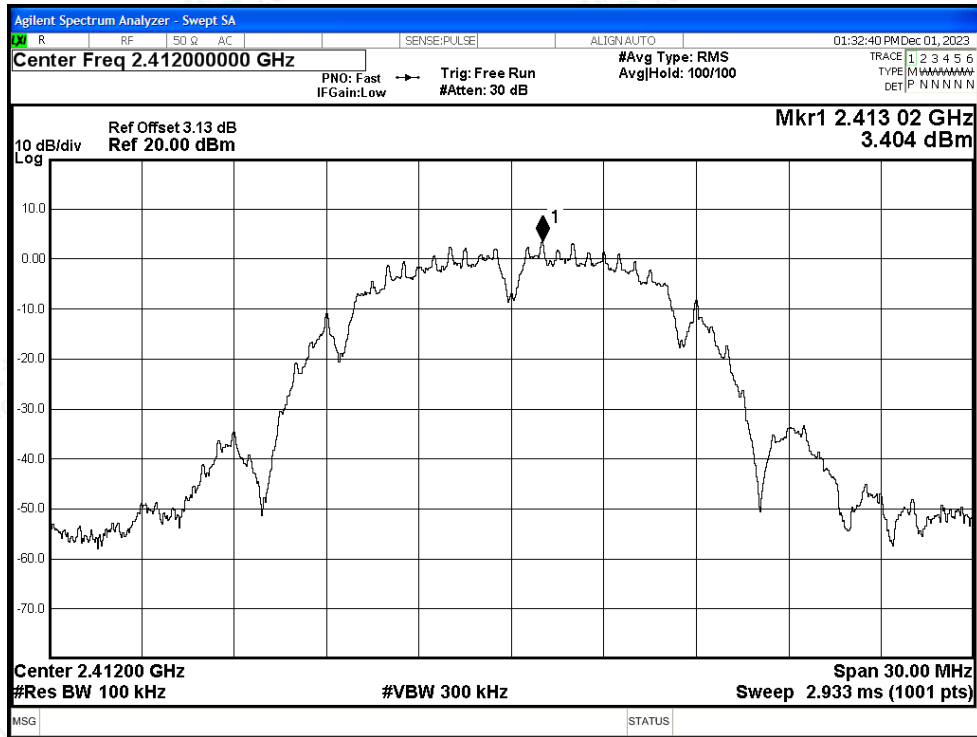


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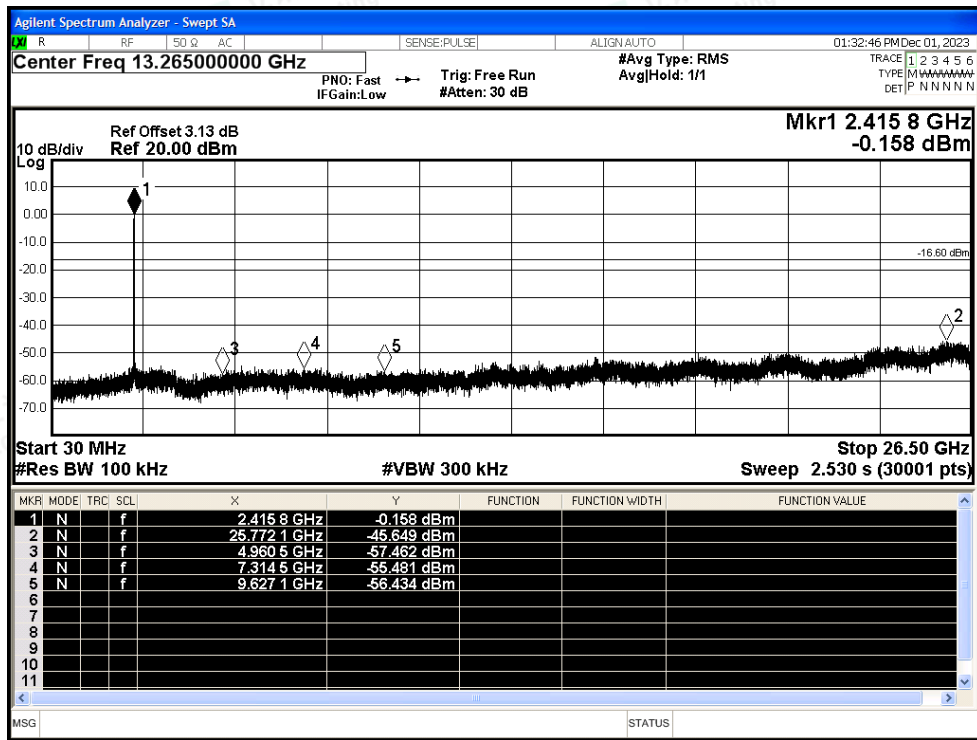


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant Ref

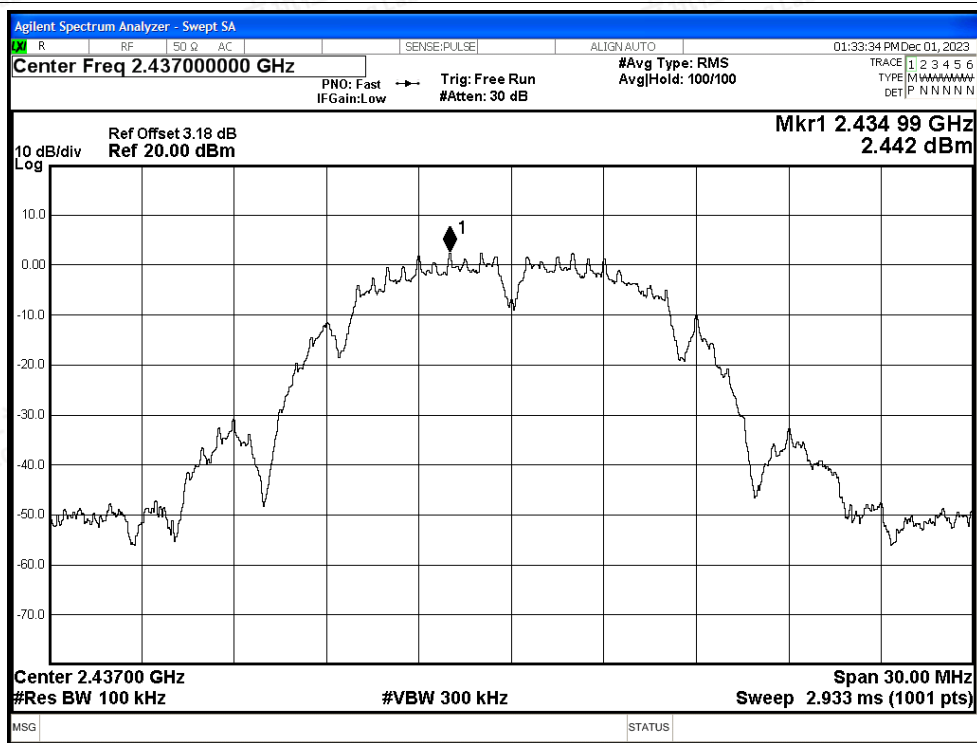


Tx. Spurious NVNT b 2412MHz Ant Emission

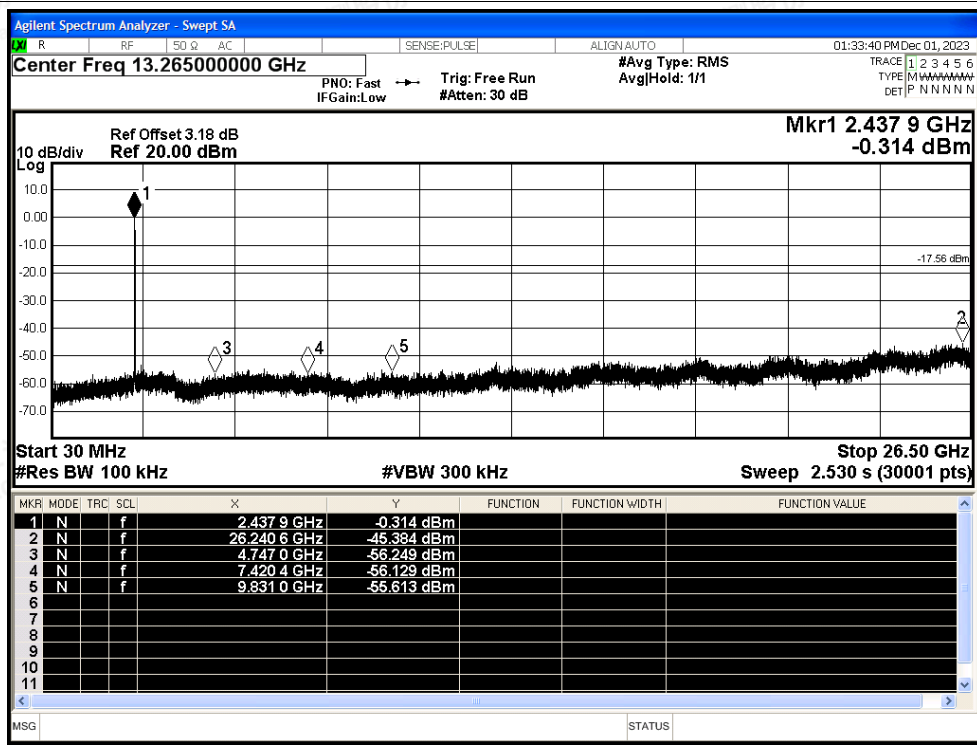




Tx. Spurious NVNT b 2437MHz Ant Ref



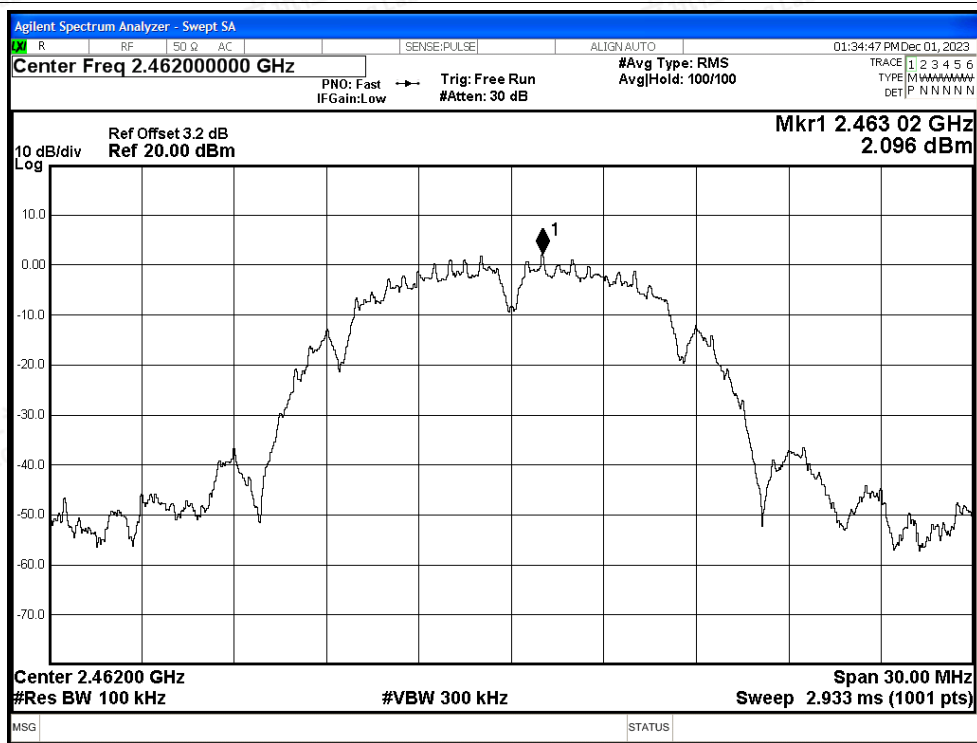
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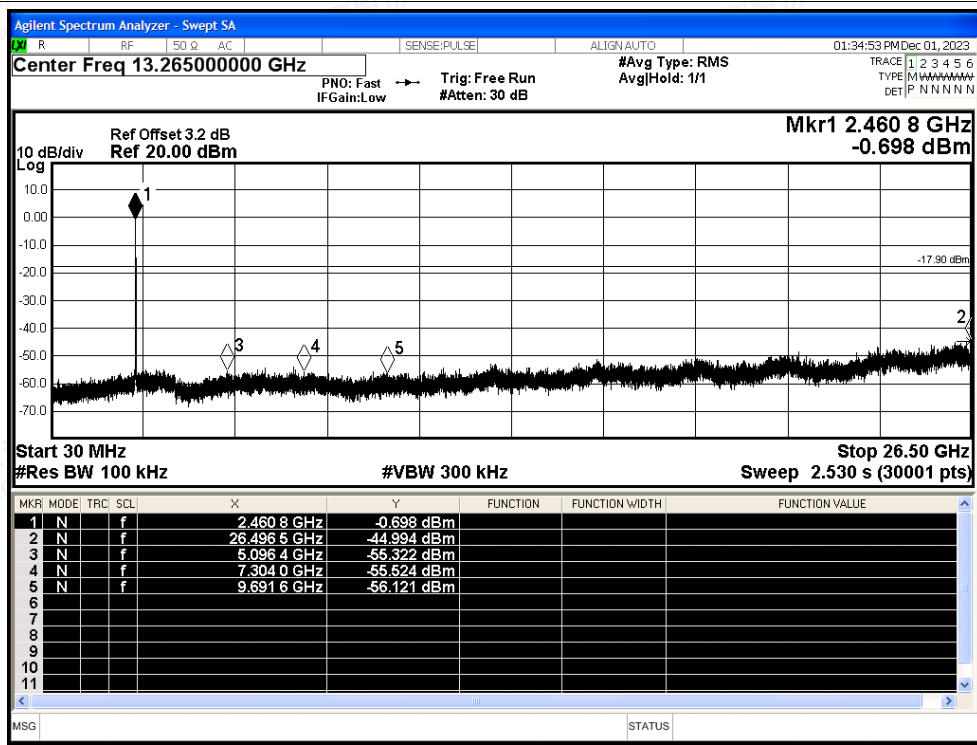




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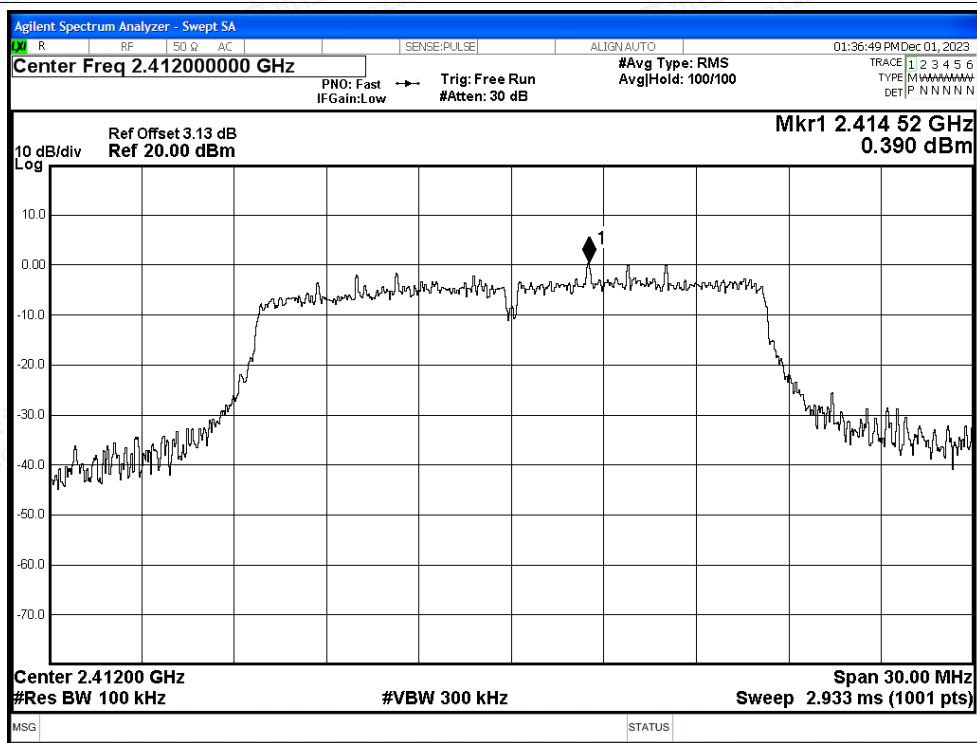


Tx. Spurious NVNT b 2462MHz Ant Emission

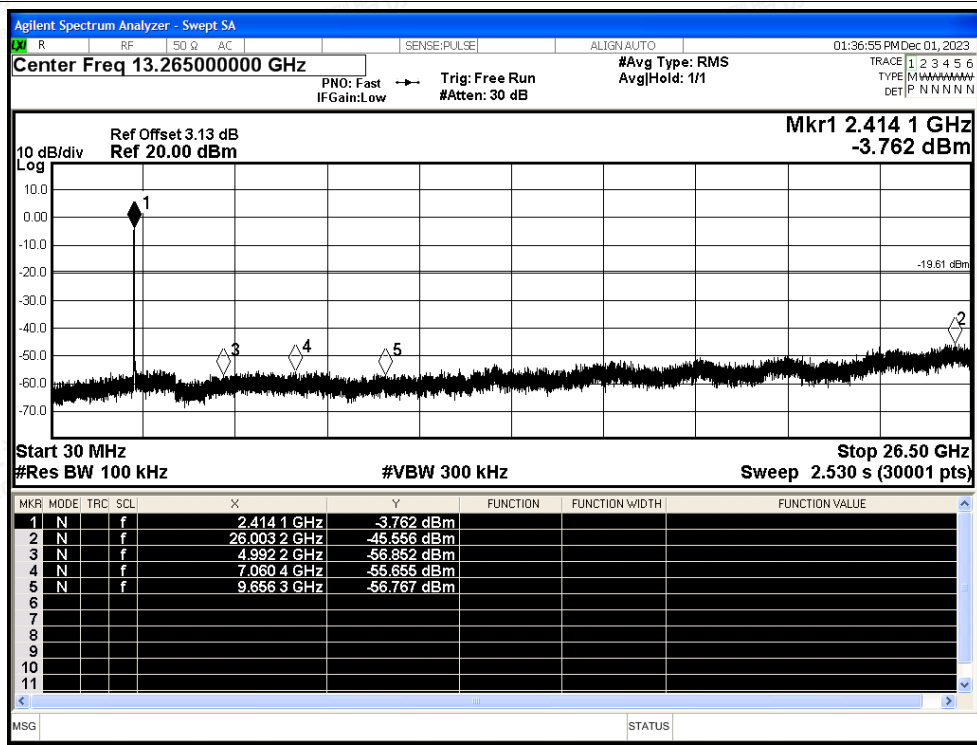




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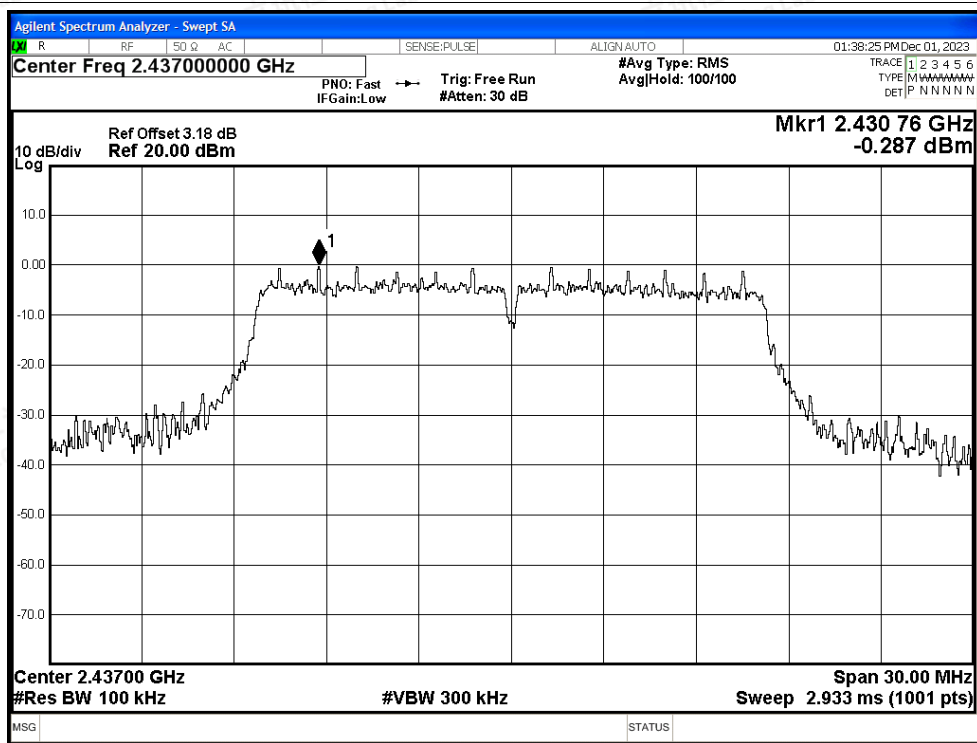


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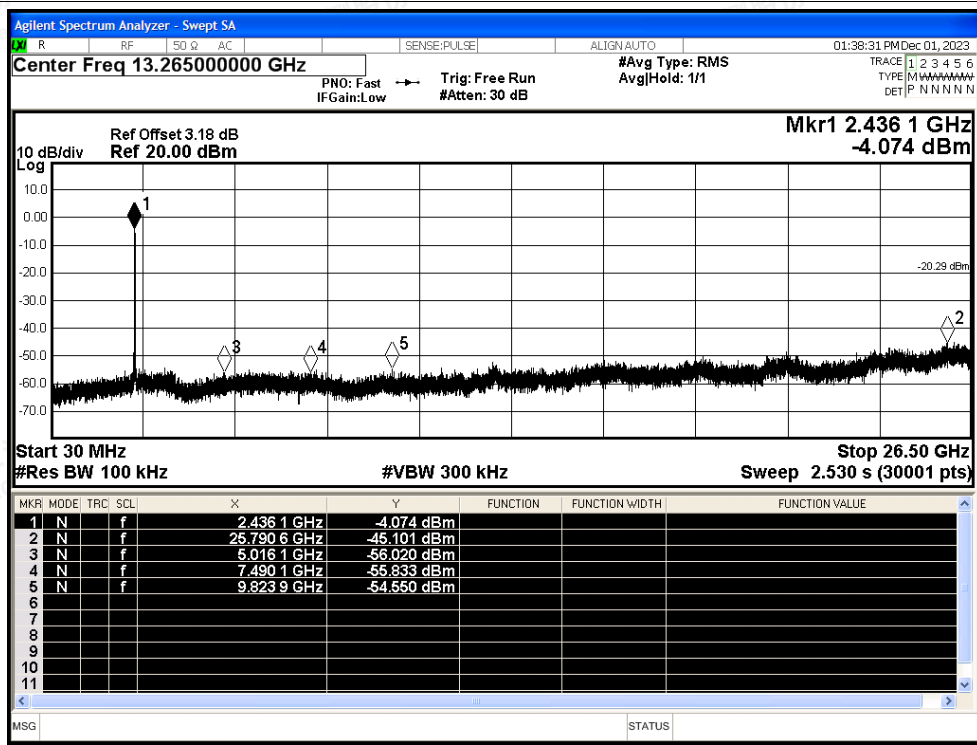




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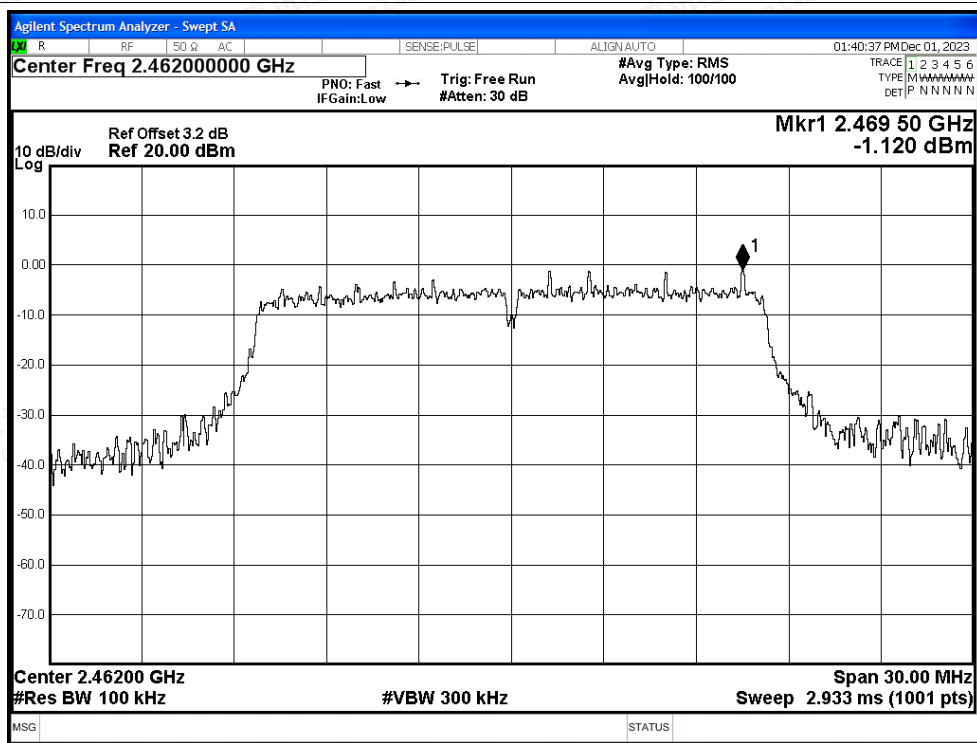


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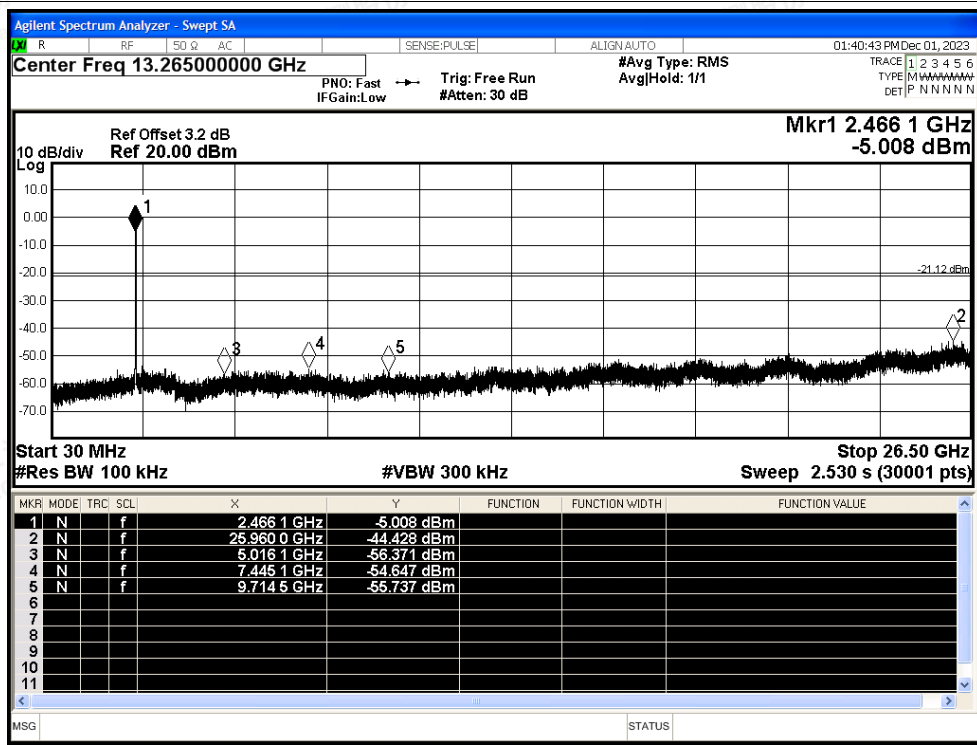




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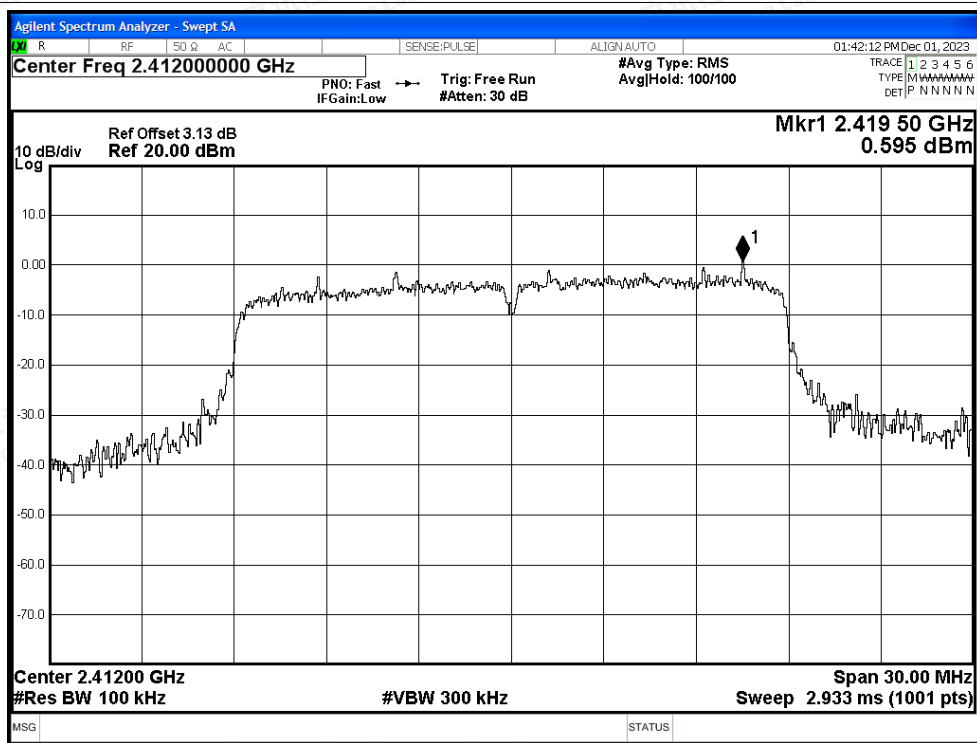


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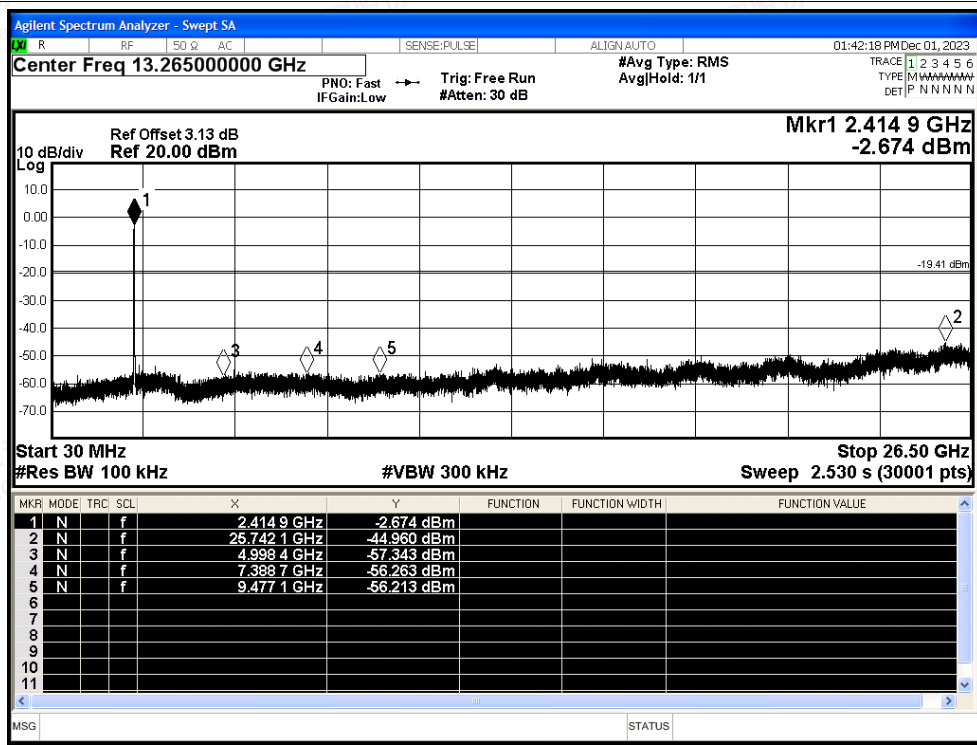




Tx. Spurious NVNT n20 2412MHz Ant Ref

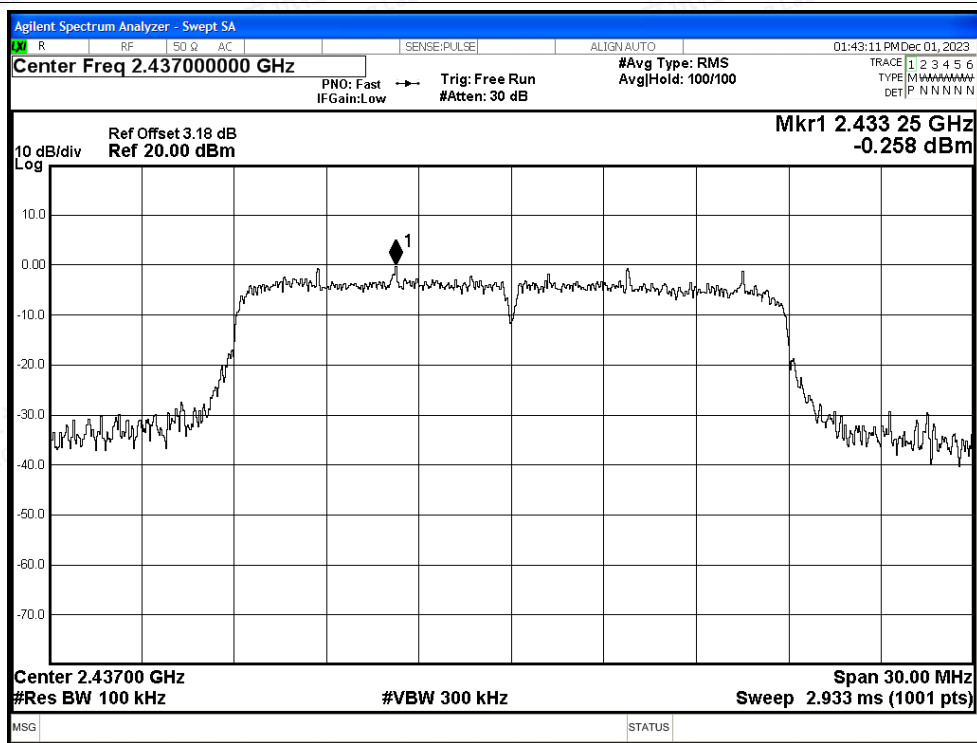


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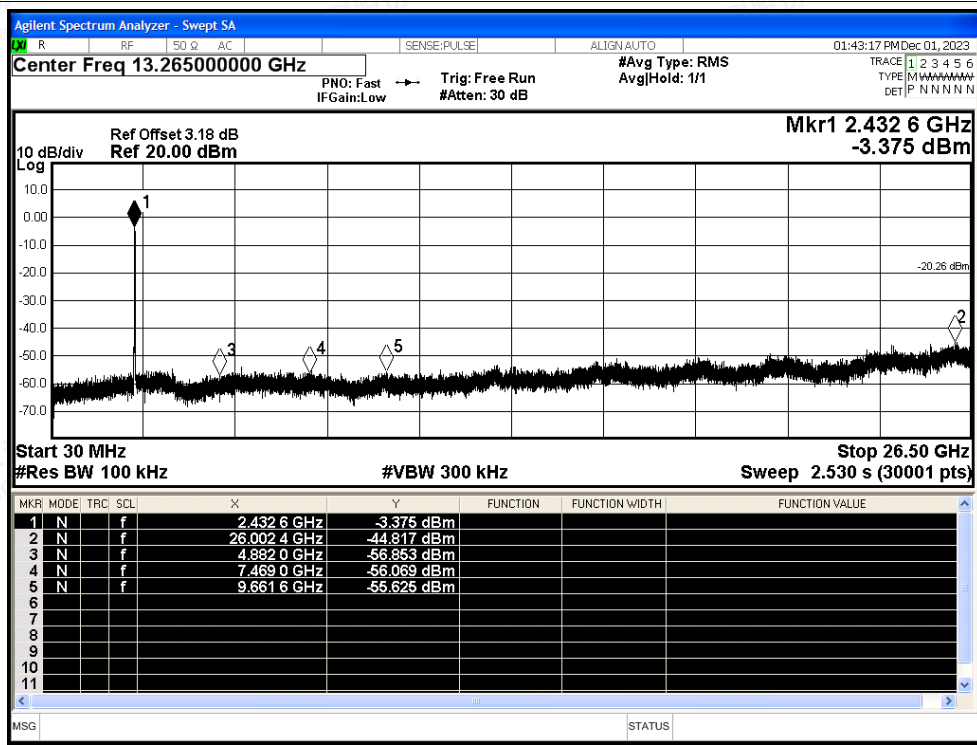




Tx. Spurious NVNT n20 2437MHz Ant Ref

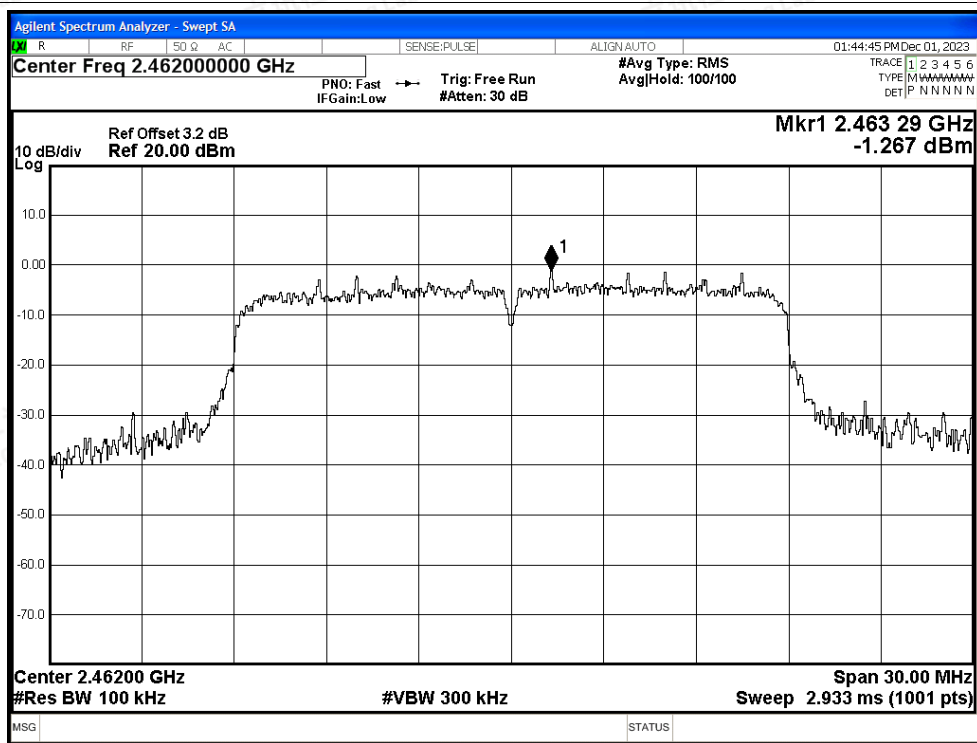


Tx. Spurious NVNT n20 2437MHz Ant Emission

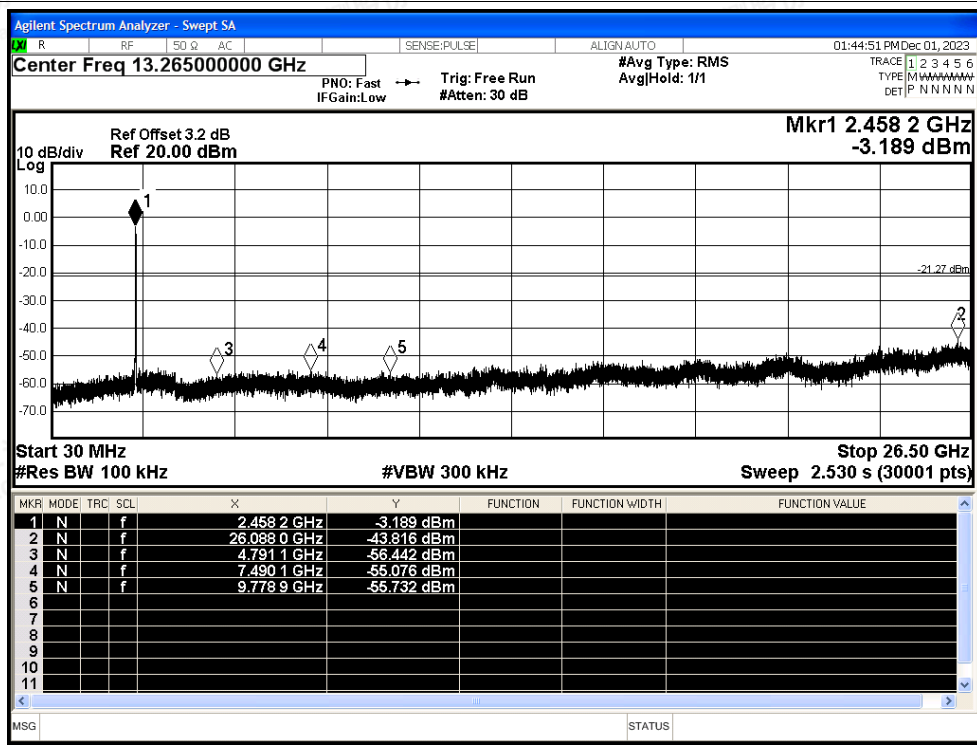




Tx. Spurious NVNT n20 2462MHz Ant Ref



Tx. Spurious NVNT n20 2462MHz Ant Emission





### C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant	99.32	0	0.12
NVNT	b	2437	Ant	99.34	0	0.12
NVNT	b	2462	Ant	99.32	0	0.12
NVNT	g	2412	Ant	95.75	0.19	0.72
NVNT	g	2437	Ant	95.75	0.19	0.72
NVNT	g	2462	Ant	95.75	0.19	0.72
NVNT	n20	2412	Ant	95.02	0.22	0.85
NVNT	n20	2437	Ant	95.02	0.22	0.85
NVNT	n20	2462	Ant	94.86	0.23	0.85



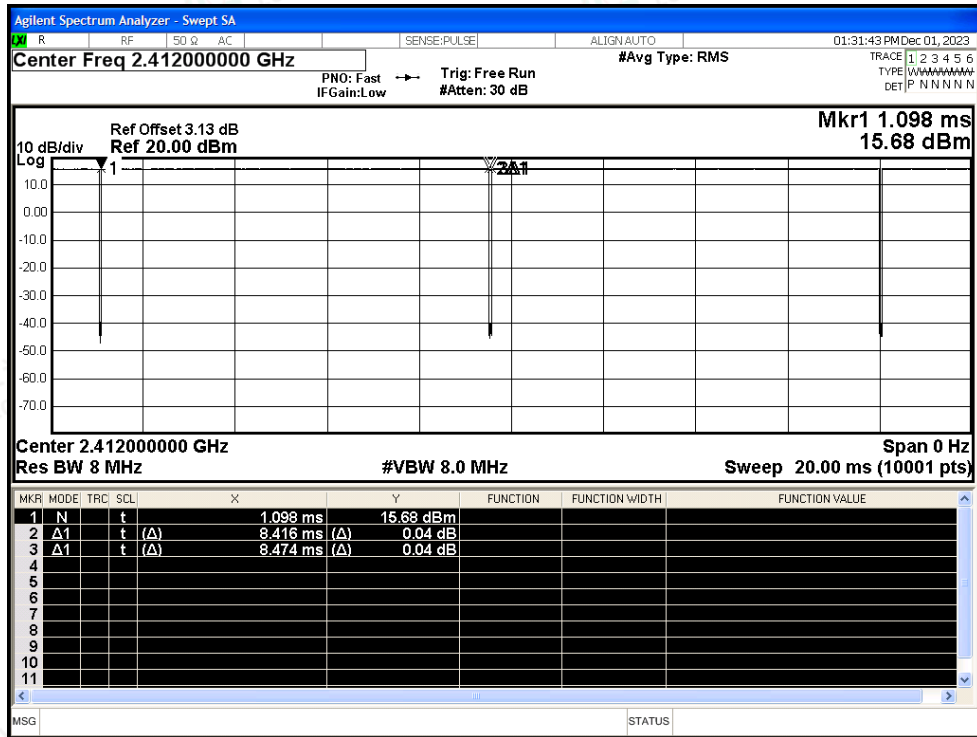
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Scan code to check authenticity



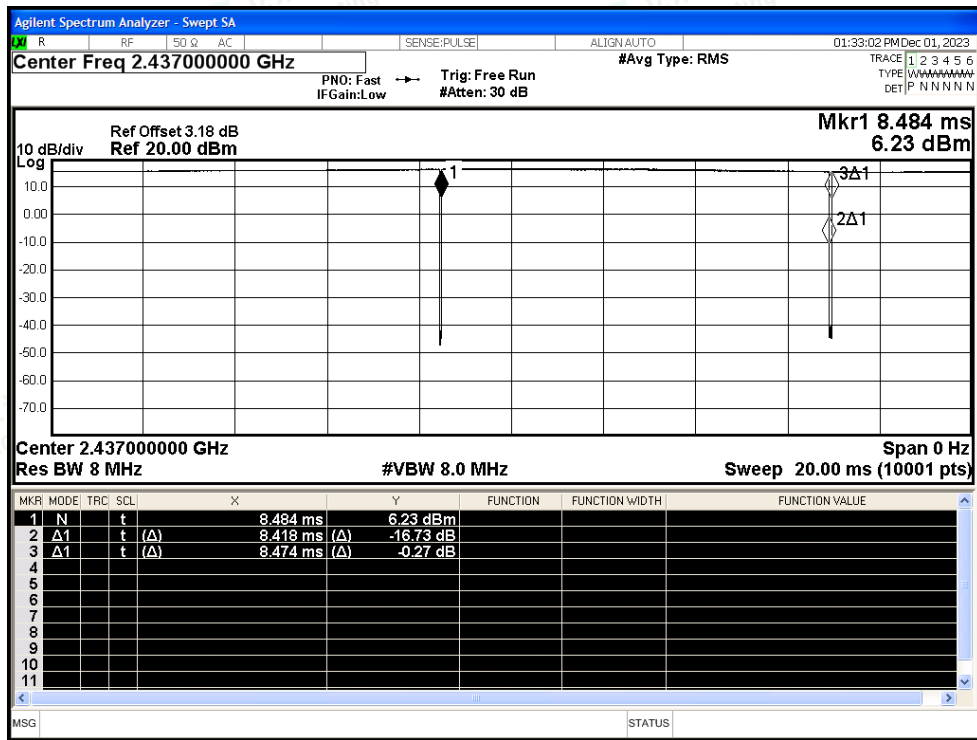


Test Graphs

Duty Cycle NVNT b 2412MHz Ant

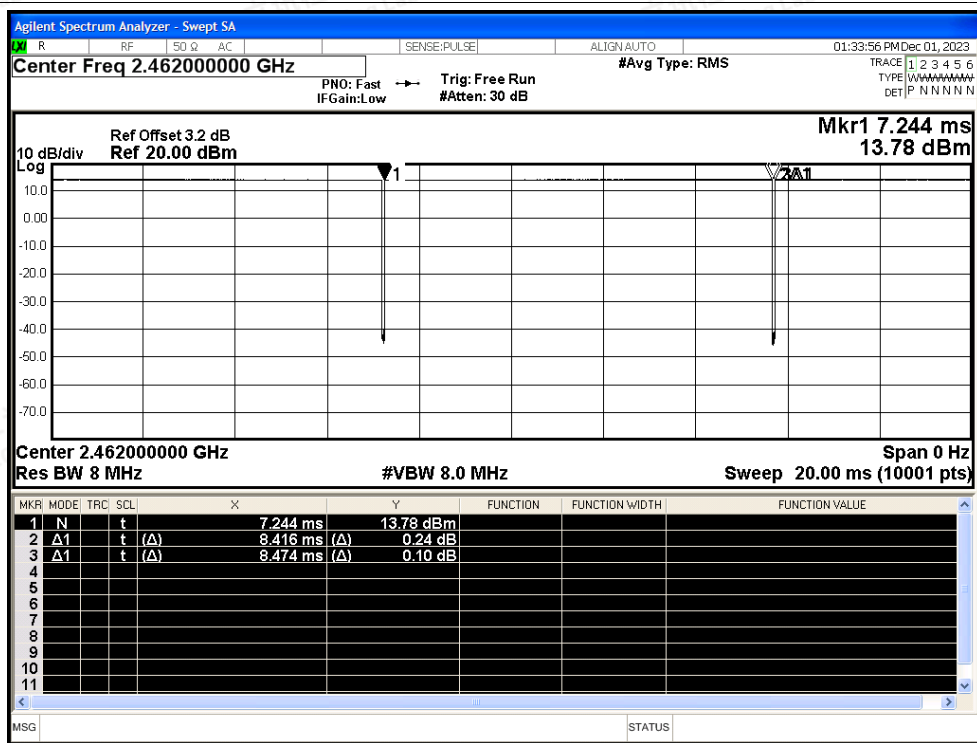


Duty Cycle NVNT b 2437MHz Ant

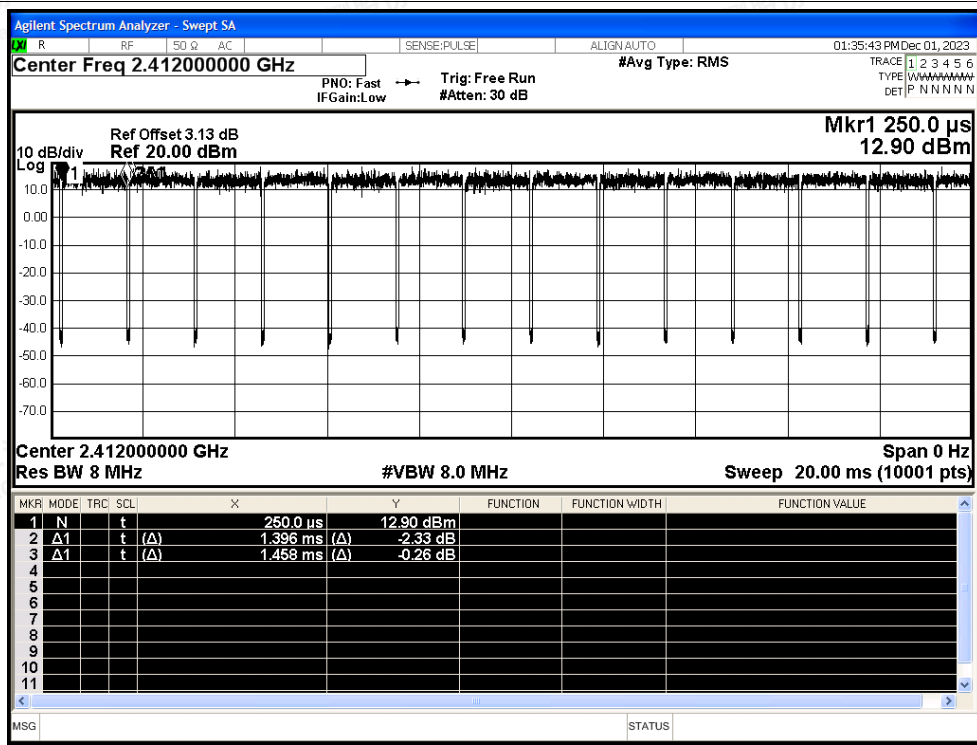




Duty Cycle NVNT b 2462MHz Ant

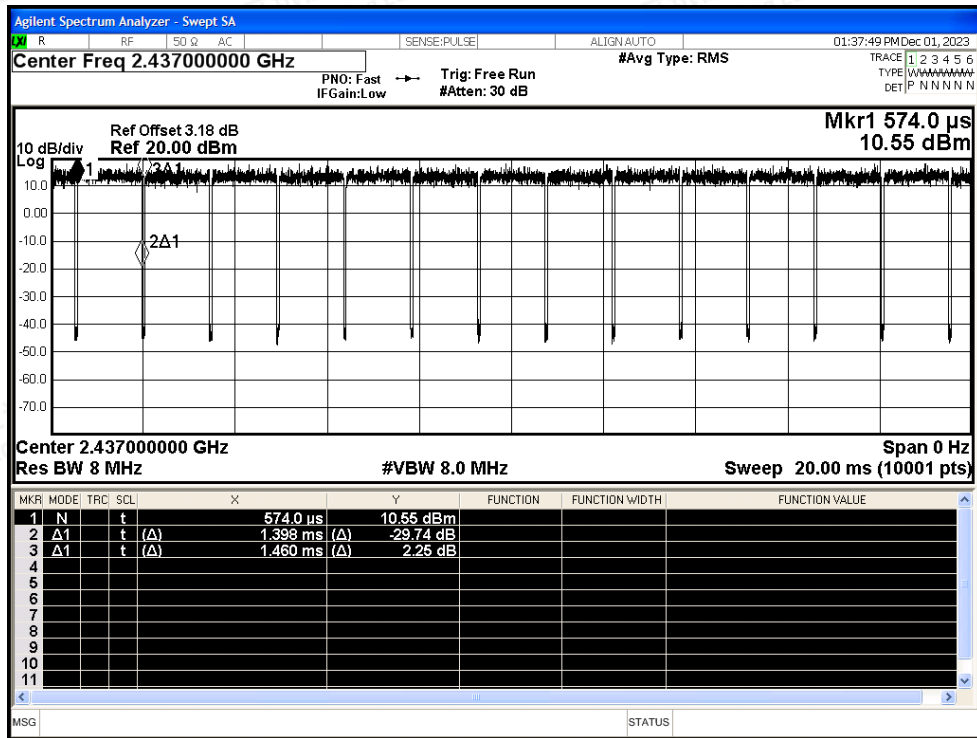


Duty Cycle NVNT g 2412MHz Ant

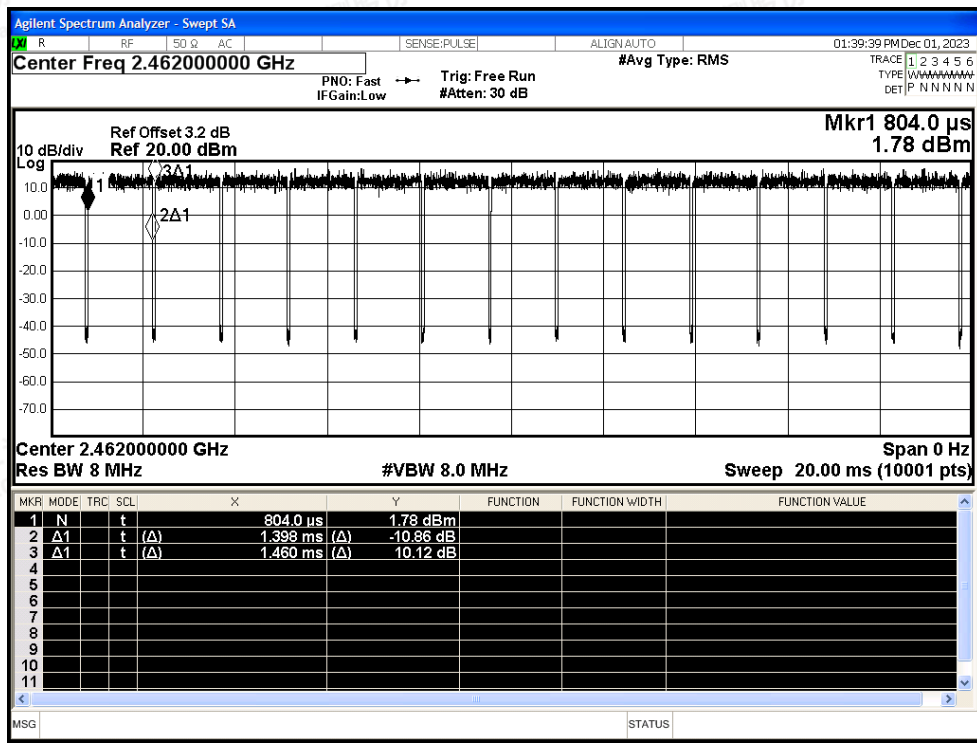




Duty Cycle NVNT g 2437MHz Ant

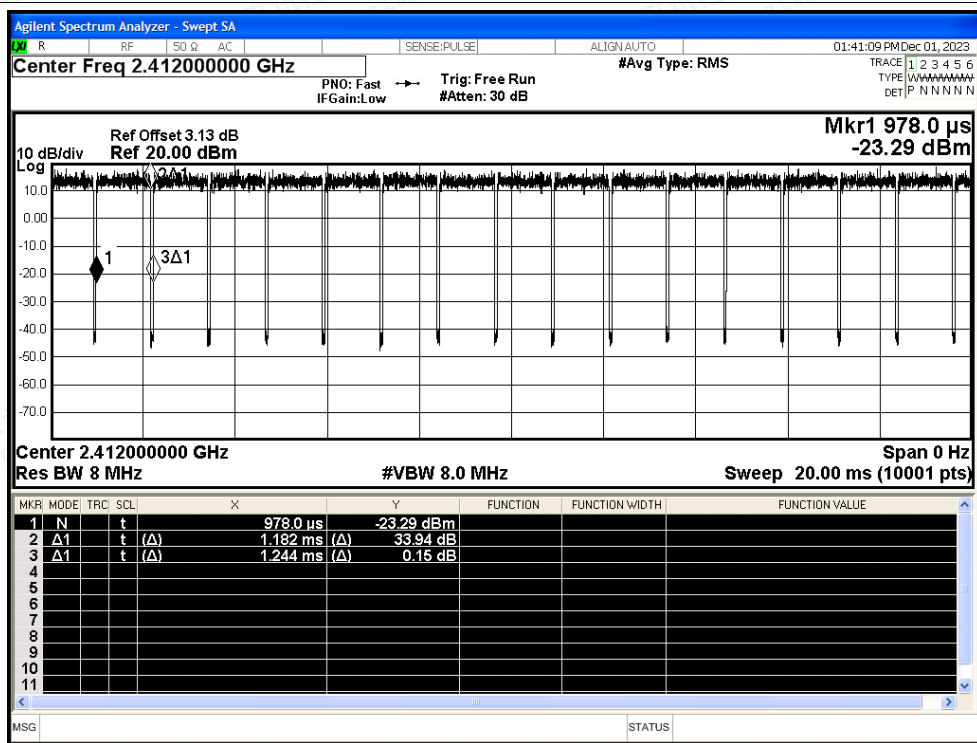


Duty Cycle NVNT g 2462MHz Ant

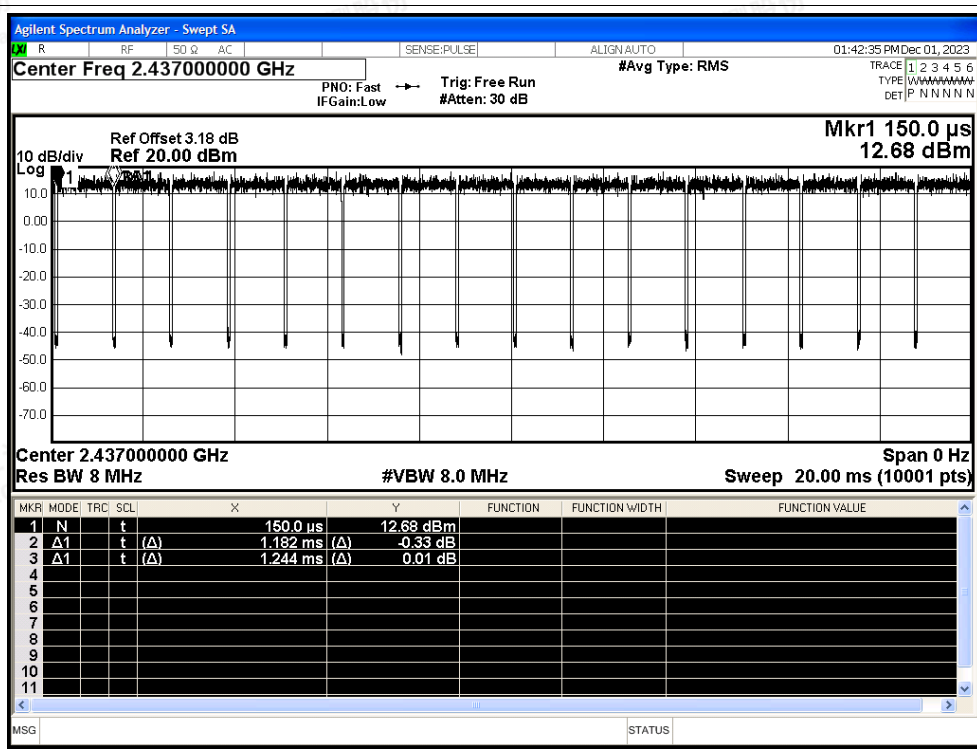




Duty Cycle NVNT n20 2412MHz Ant

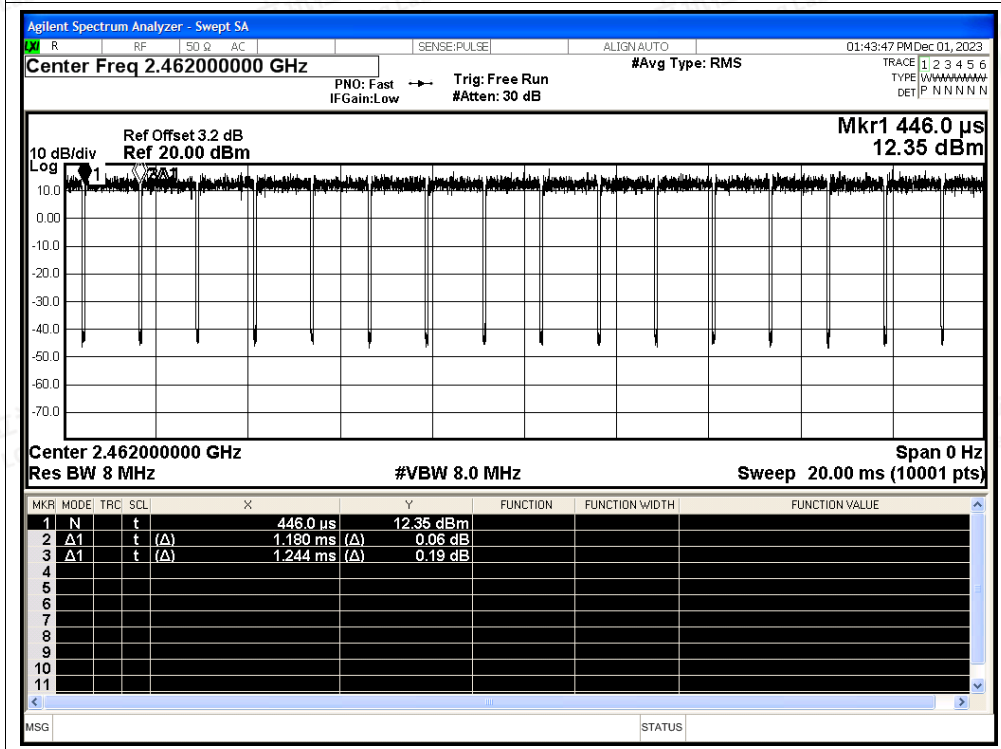


Duty Cycle NVNT n20 2437MHz Ant





Duty Cycle NVNT n20 2462MHz Ant





### C.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant	2310	-49.55	2	47.71	Peak	74	Pass
NVNT	b	2412	Ant	2310	-56.97	2	40.29	Average	54	Pass
NVNT	b	2412	Ant	2387.571	-46.49	2	50.77	Peak	74	Pass
NVNT	b	2412	Ant	2388.624	-54.93	2	42.33	Average	54	Pass
NVNT	b	2412	Ant	2390	-47.9	2	49.36	Peak	74	Pass
NVNT	b	2412	Ant	2390	-54.71	2	42.55	Average	54	Pass
NVNT	b	2462	Ant	2483.5	-45.89	2	51.37	Peak	74	Pass
NVNT	b	2462	Ant	2483.5	-53.22	2	44.04	Average	54	Pass
NVNT	b	2462	Ant	2485.955	-39.37	2	57.89	Peak	74	Pass
NVNT	b	2462	Ant	2483.994	-52.79	2	44.47	Average	54	Pass
NVNT	b	2462	Ant	2500	-47.76	2	49.5	Peak	74	Pass
NVNT	b	2462	Ant	2500	-56.21	2	41.05	Average	54	Pass
NVNT	g	2412	Ant	2310	-48.37	2	48.89	Peak	74	Pass
NVNT	g	2412	Ant	2310	-56.59	2	40.67	Average	54	Pass
NVNT	g	2412	Ant	2389.209	-42.62	2	54.64	Peak	74	Pass
NVNT	g	2412	Ant	2389.911	-51.87	2	45.39	Average	54	Pass
NVNT	g	2412	Ant	2390	-42.61	2	54.65	Peak	74	Pass
NVNT	g	2412	Ant	2390	-51.73	2	45.53	Average	54	Pass
NVNT	g	2462	Ant	2483.5	-29.56	2	67.7	Peak	74	Pass
NVNT	g	2462	Ant	2483.5	-44.63	2	52.63	Average	54	Pass
NVNT	g	2462	Ant	2483.676	-27.73	2	69.53	Peak	74	Pass
NVNT	g	2462	Ant	2483.623	-44.52	2	52.74	Average	54	Pass
NVNT	g	2462	Ant	2500	-50.69	2	46.57	Peak	74	Pass
NVNT	g	2462	Ant	2500	-55.99	2	41.27	Average	54	Pass
NVNT	n20	2412	Ant	2310	-50.36	2	46.9	Peak	74	Pass
NVNT	n20	2412	Ant	2310	-56.38	2	40.88	Average	54	Pass
NVNT	n20	2412	Ant	2389.911	-35.24	2	62.02	Peak	74	Pass
NVNT	n20	2412	Ant	2389.794	-49.89	2	47.37	Average	54	Pass
NVNT	n20	2412	Ant	2390	-36.17	2	61.09	Peak	74	Pass
NVNT	n20	2412	Ant	2390	-49.91	2	47.35	Average	54	Pass
NVNT	n20	2462	Ant	2483.5	-33.35	2	63.91	Peak	74	Pass
NVNT	n20	2462	Ant	2483.5	-48.89	2	48.37	Average	54	Pass
NVNT	n20	2462	Ant	2483.517	-33.35	2	63.91	Peak	74	Pass
NVNT	n20	2462	Ant	2483.517	-48.89	2	48.37	Average	54	Pass
NVNT	n20	2462	Ant	2500	-48.95	2	48.31	Peak	74	Pass
NVNT	n20	2462	Ant	2500	-55.93	2	41.33	Average	54	Pass

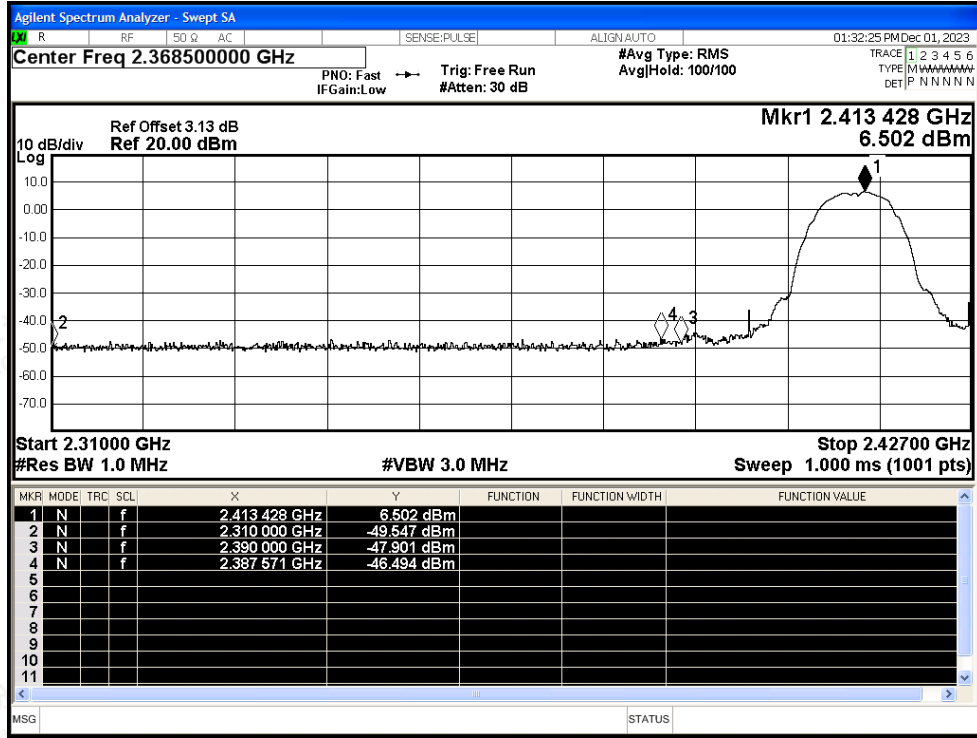


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 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
 Scan code to check authenticity

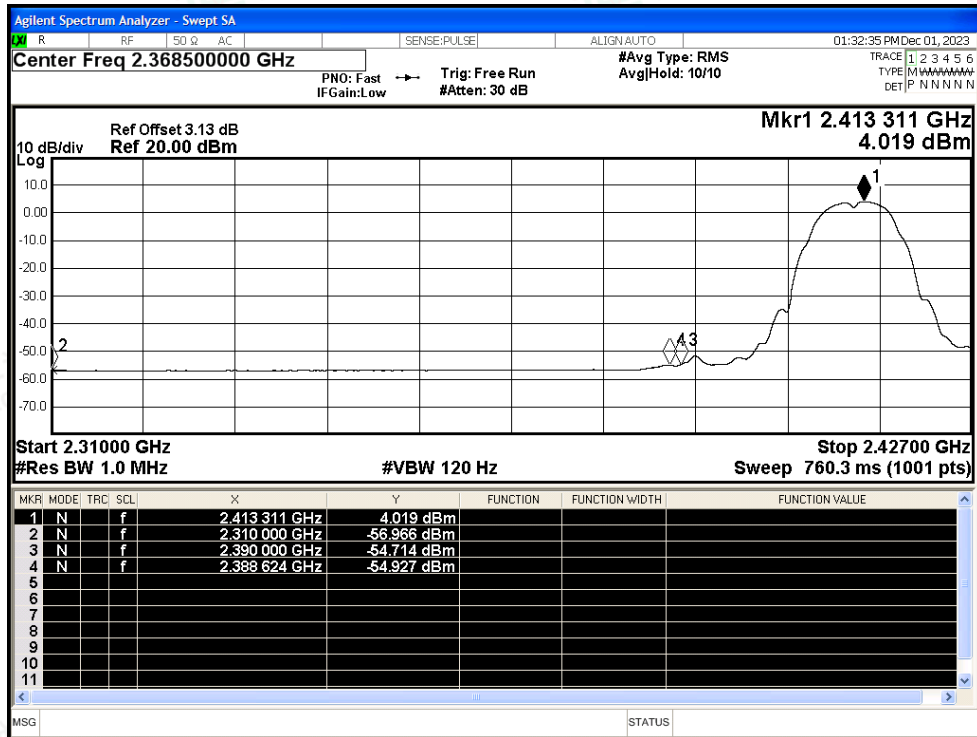


Test Graphs

Restrict Band NVNT b 2412MHz Ant Peak

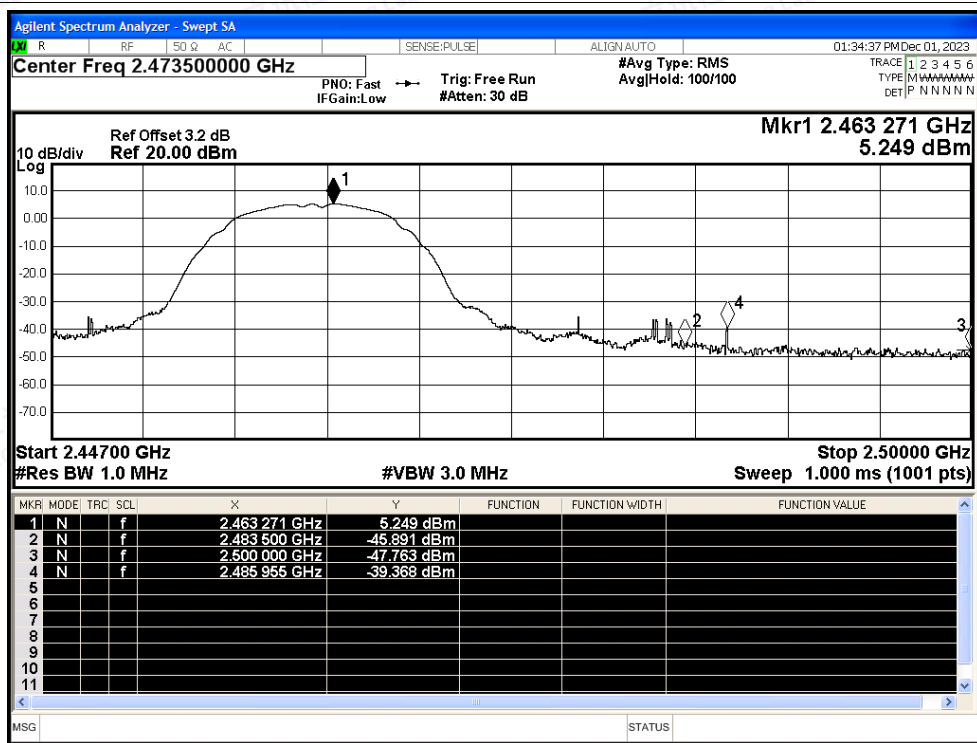


Restrict Band NVNT b 2412MHz Ant Average

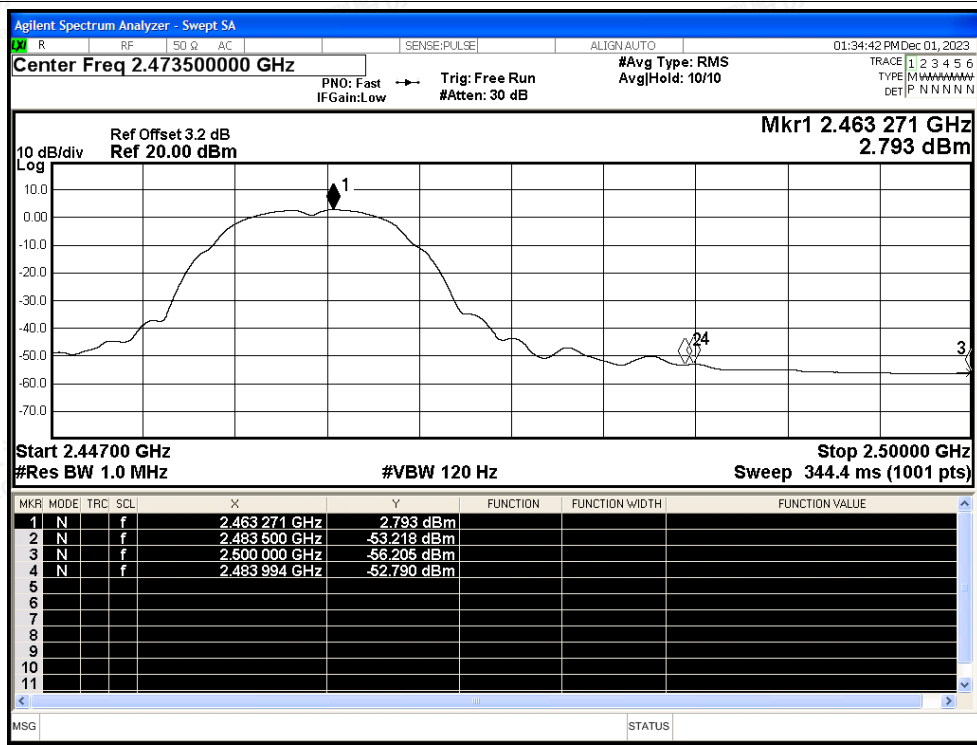




Restrict Band NVNT b 2462MHz Ant Peak



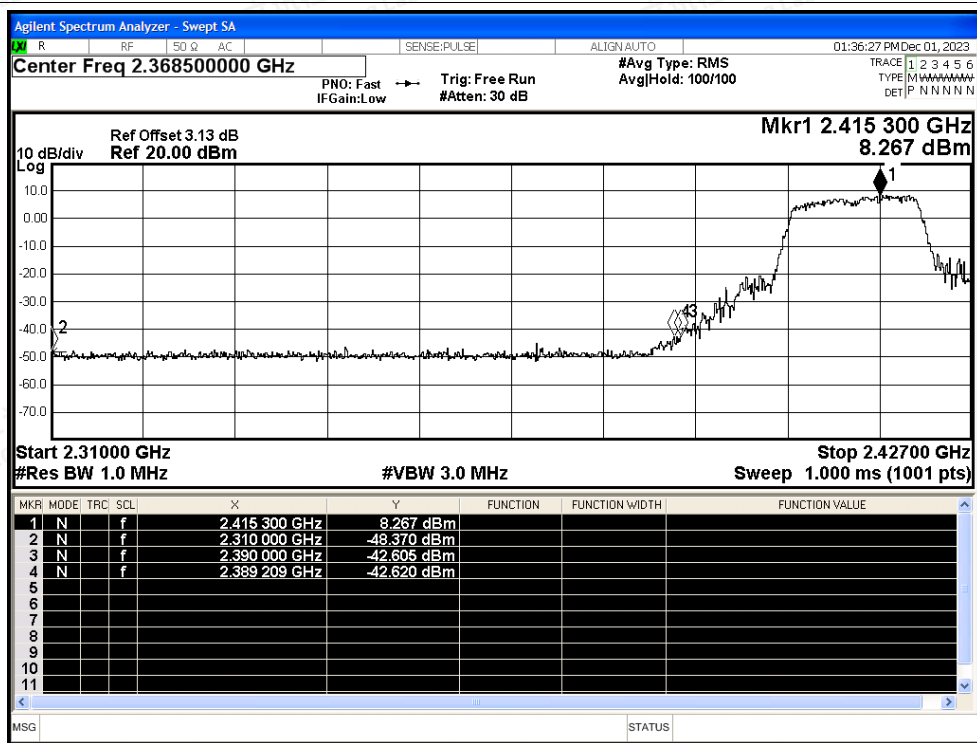
Restrict Band NVNT b 2462MHz Ant Average



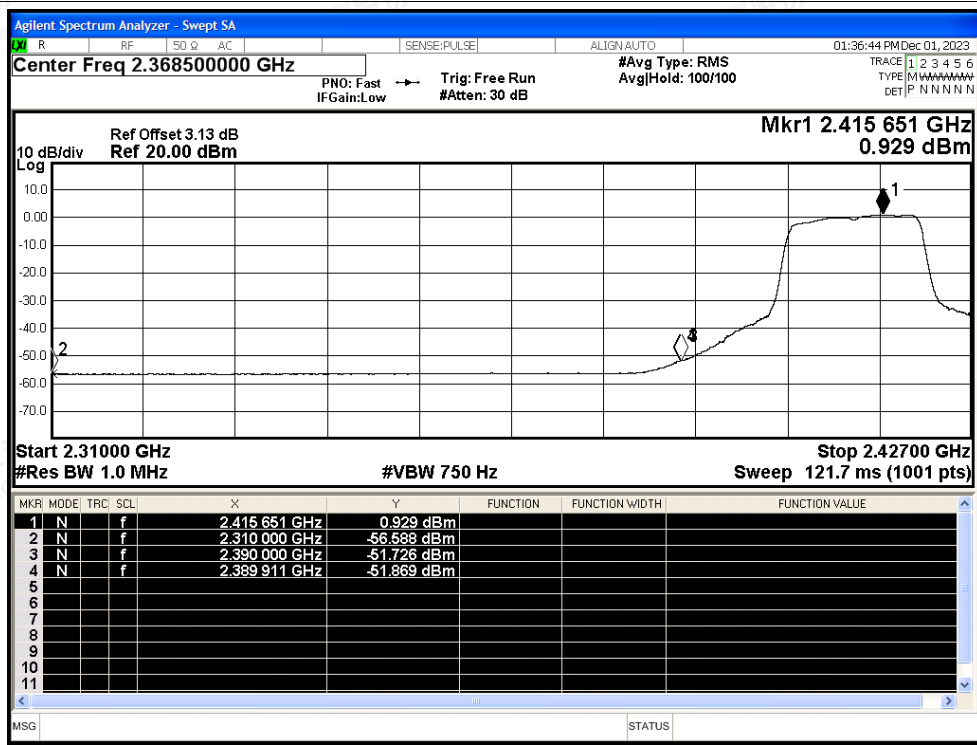




Restrict Band NVNT g 2412MHz Ant Peak

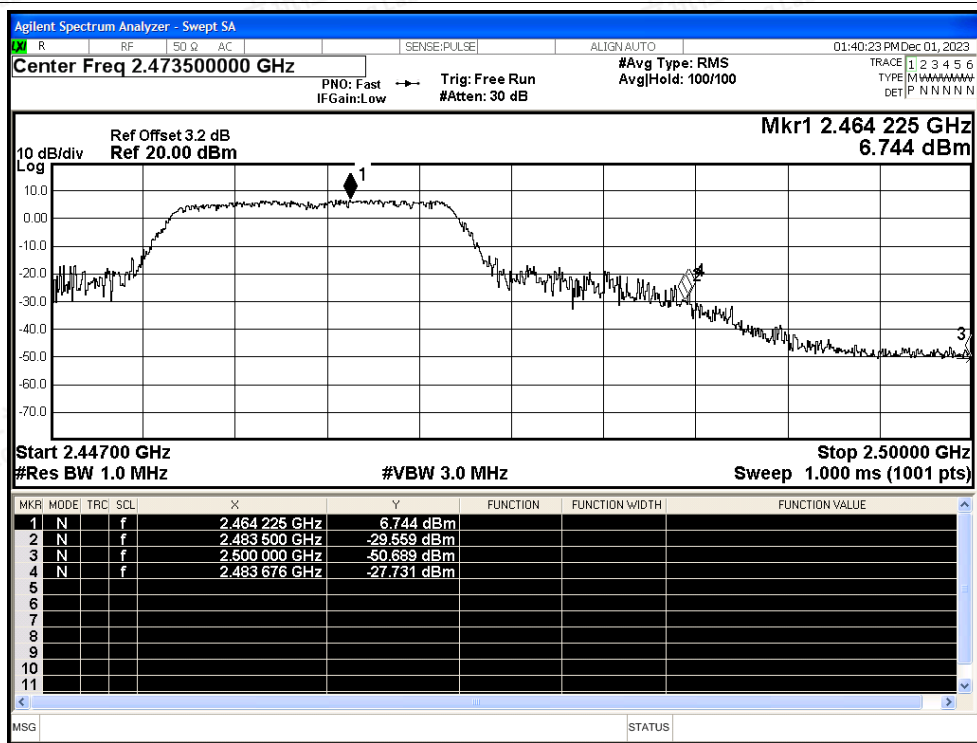


Restrict Band NVNT g 2412MHz Ant Average

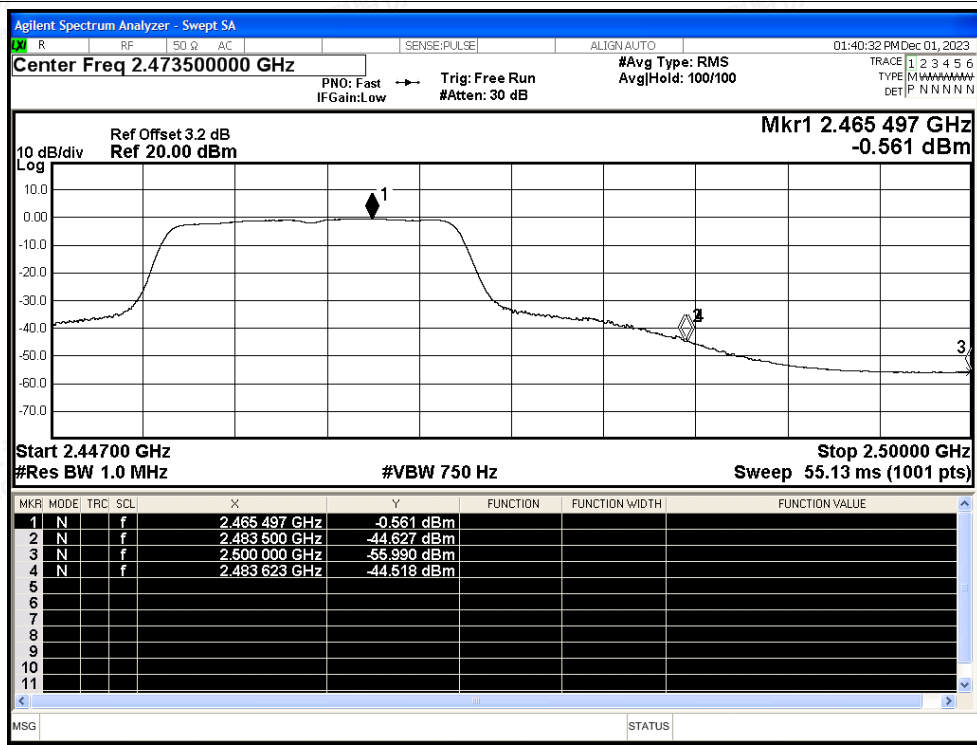




Restrict Band NVNT g 2462MHz Ant Peak

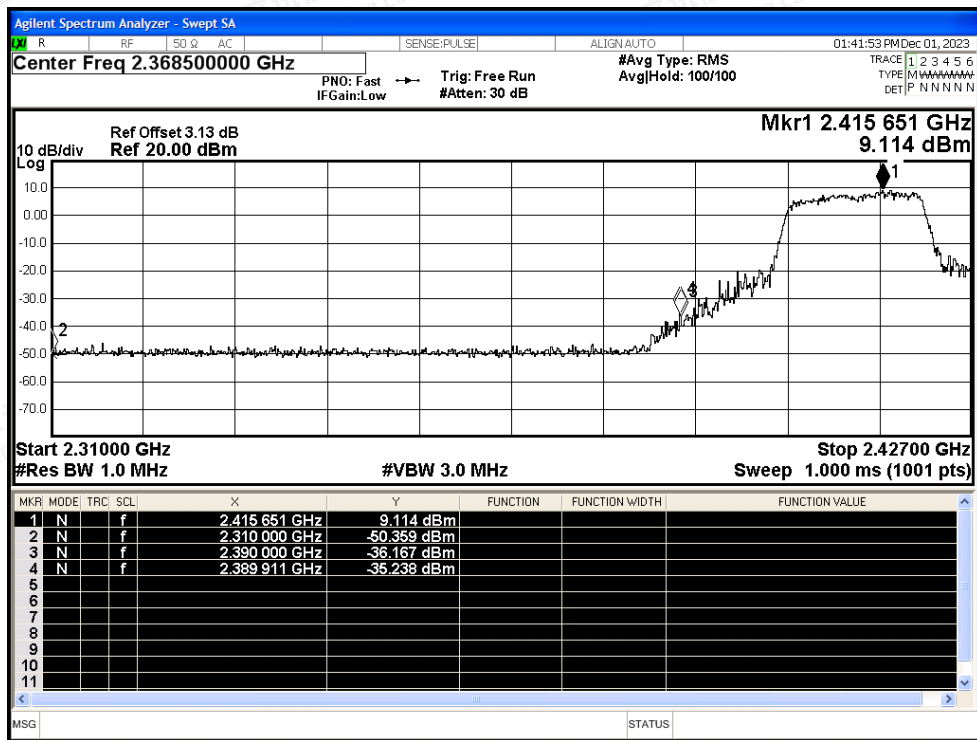


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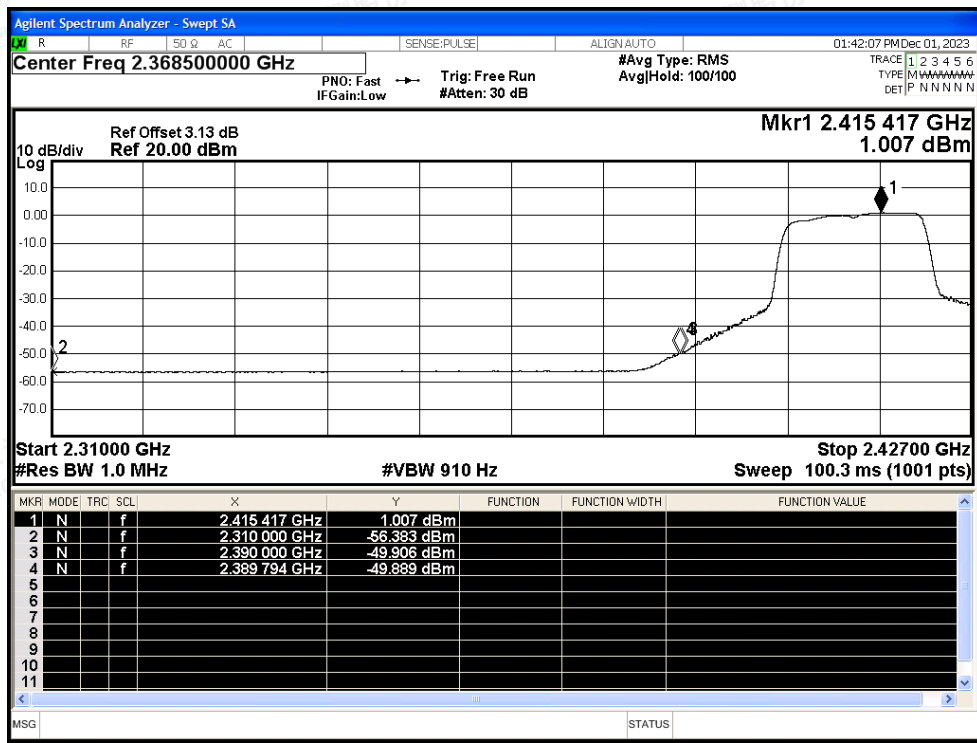




Restrict Band NVNT n20 2412MHz Ant Peak

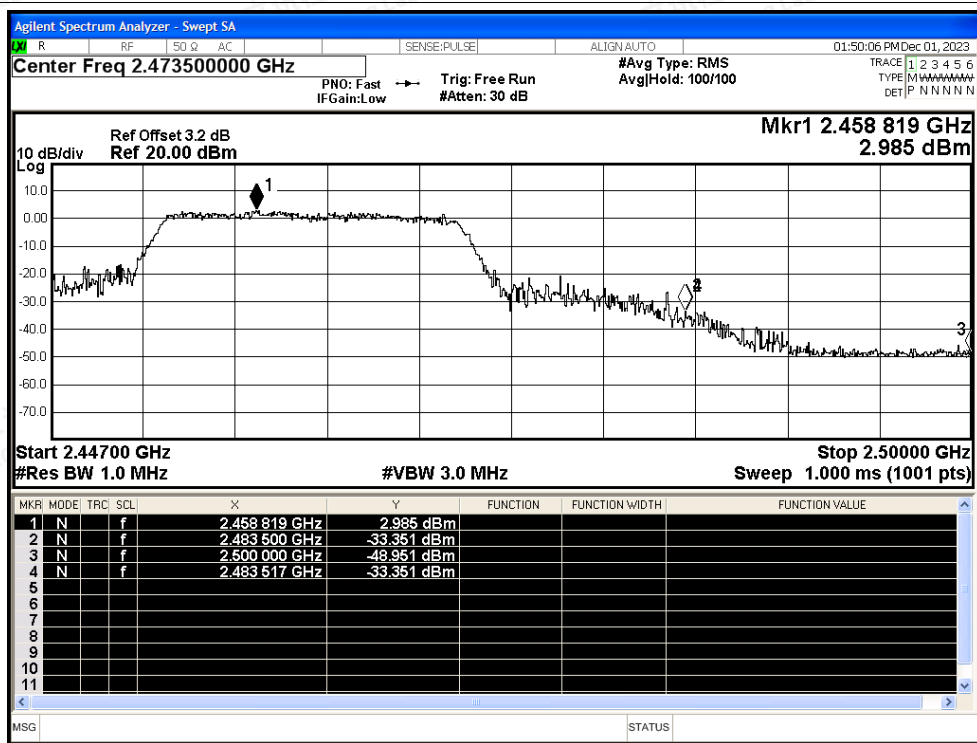


Restrict Band NVNT n20 2412MHz Ant Average





Restrict Band NVNT n20 2462MHz Ant Peak



Restrict Band NVNT n20 2462MHz Ant Average

