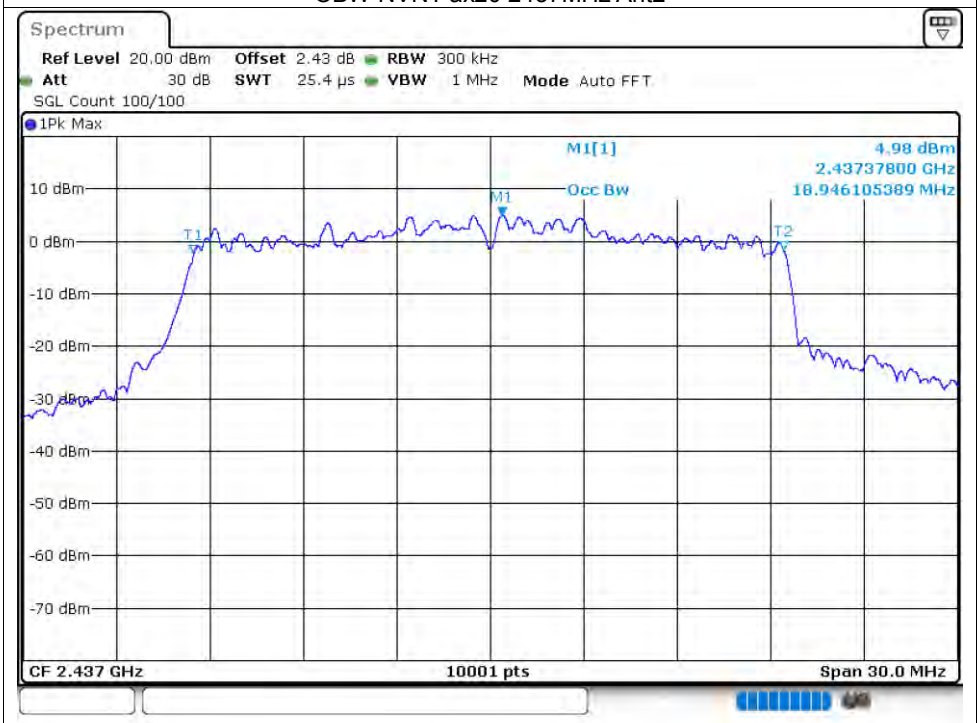
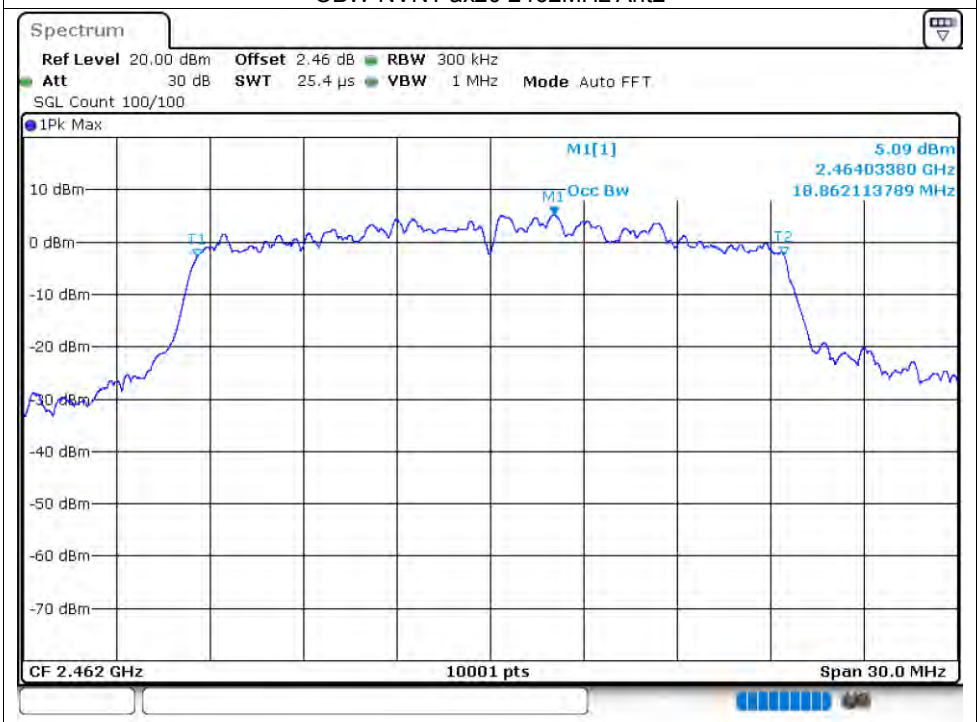
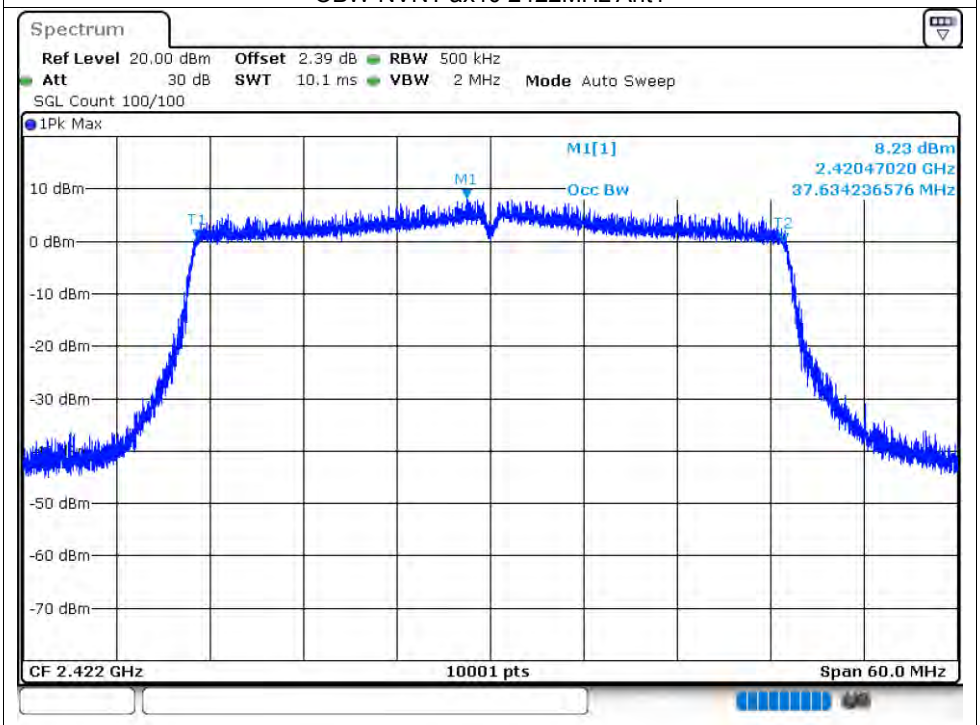
OBW NVNT ax20 2437MHz Ant2



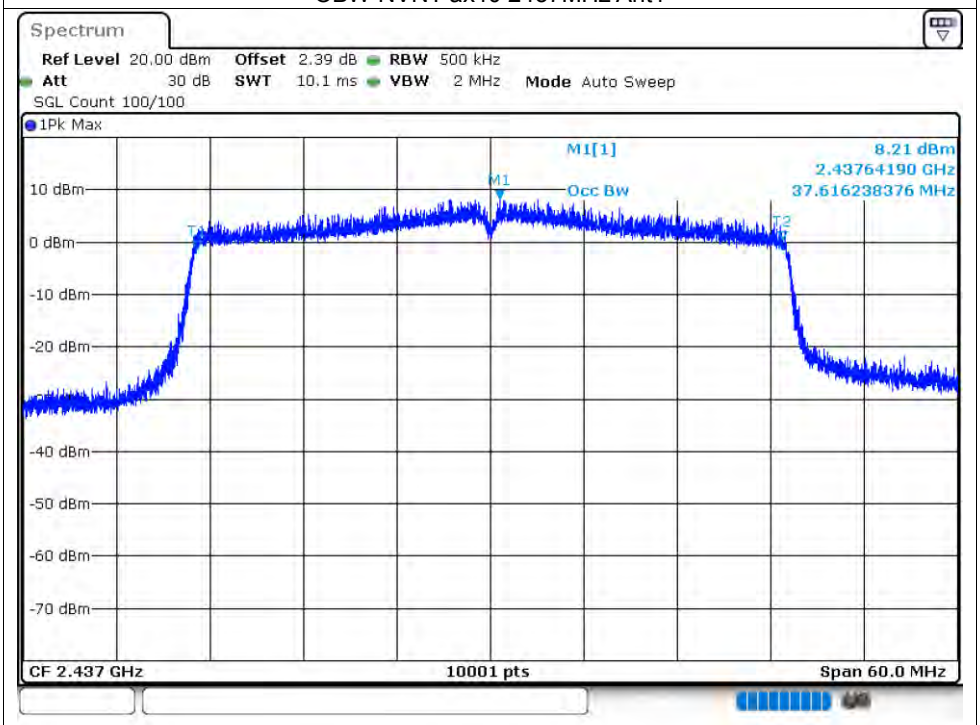
OBW NVNT ax20 2462MHz Ant2



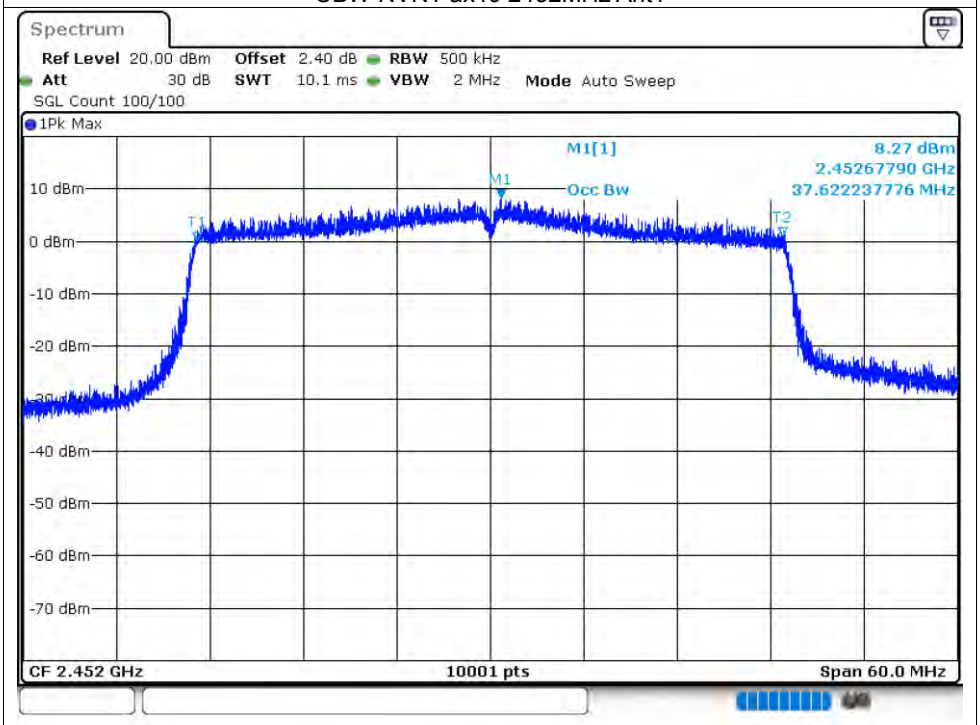
OBW NVNT ax40 2422MHz Ant1



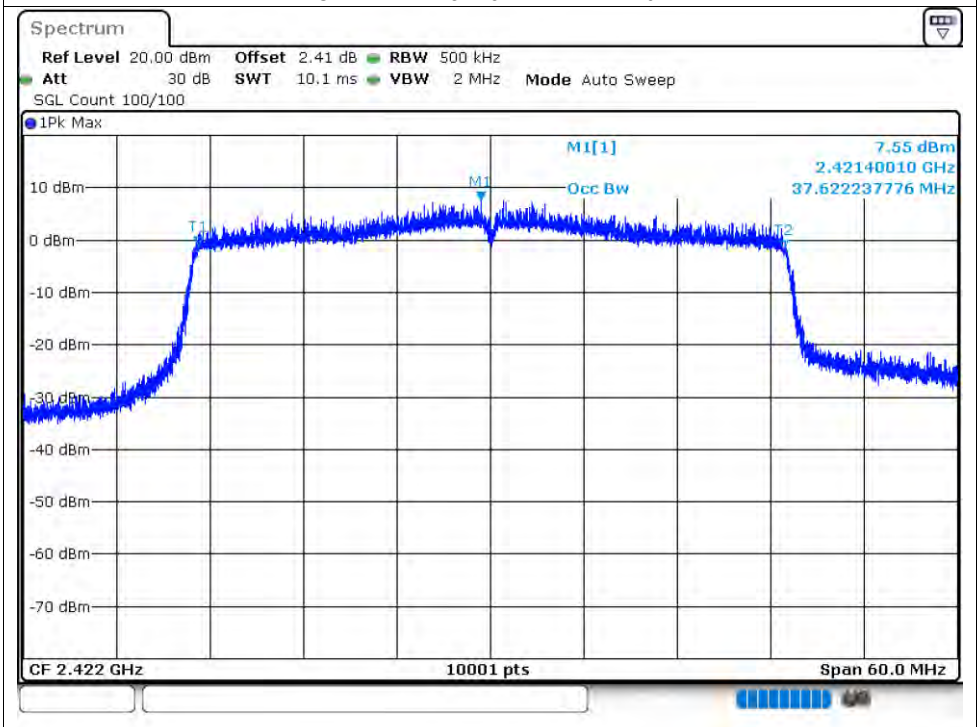
OBW NVNT ax40 2437MHz Ant1



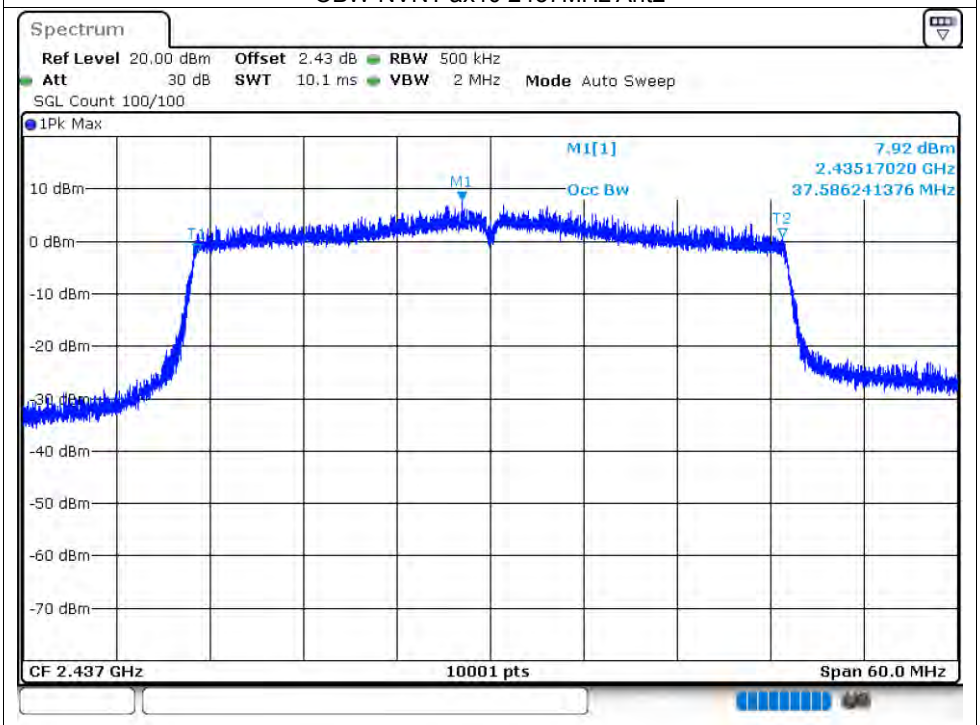
OBW NVNT ax40 2452MHz Ant1



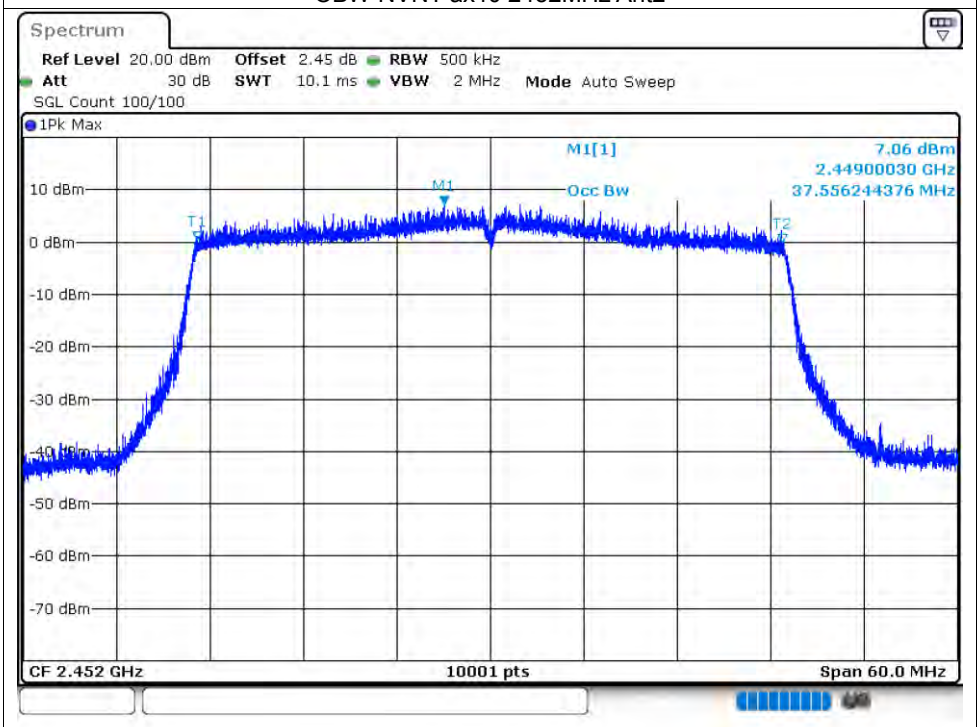
OBW NVNT ax40 2422MHz Ant2



OBW NVNT ax40 2437MHz Ant2



OBW NVNT ax40 2452MHz Ant2

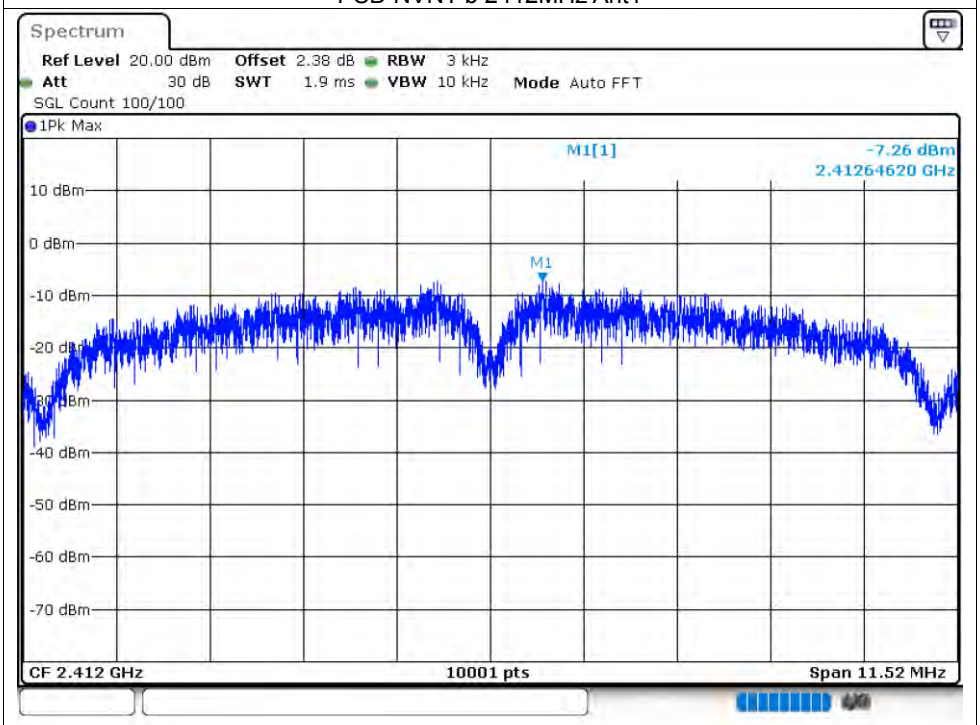


8.1.5 **Maximum Power Spectral Density Level**

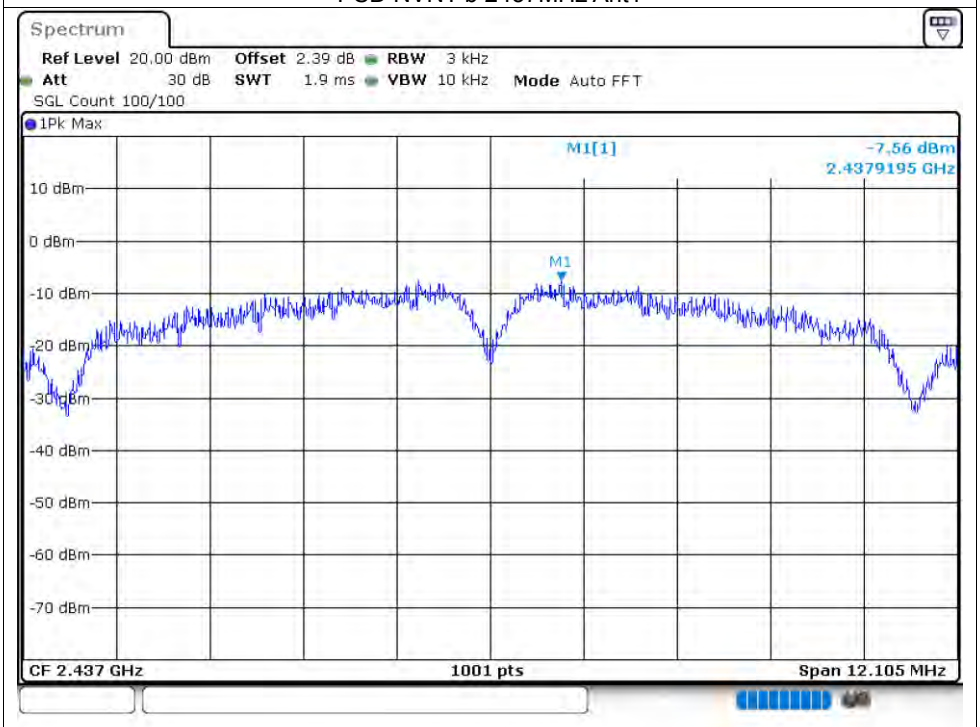
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-7.26	8	Pass
NVNT	b	2437	Ant1	-7.56	8	Pass
NVNT	b	2462	Ant1	-7.28	8	Pass
NVNT	b	2412	Ant2	-5.28	8	Pass
NVNT	b	2437	Ant2	-5.87	8	Pass
NVNT	b	2462	Ant2	-7.88	8	Pass
NVNT	g	2412	Ant1	-10.68	8	Pass
NVNT	g	2437	Ant1	-9.89	8	Pass
NVNT	g	2462	Ant1	-9.77	8	Pass
NVNT	g	2412	Ant2	-10.95	8	Pass
NVNT	g	2437	Ant2	-12.03	8	Pass
NVNT	g	2462	Ant2	-11.27	8	Pass
NVNT	n20	2412	Ant1	-9.42	8	Pass
NVNT	n20	2437	Ant1	-10.12	8	Pass
NVNT	n20	2462	Ant1	-10.27	8	Pass
NVNT	n20	2412	Ant2	-11.06	8	Pass
NVNT	n20	2437	Ant2	-11.51	8	Pass
NVNT	n20	2462	Ant2	-11.25	8	Pass
NVNT	n40	2422	Ant1	-12.4	8	Pass
NVNT	n40	2437	Ant1	-12.53	8	Pass
NVNT	n40	2452	Ant1	-12.5	8	Pass
NVNT	n40	2422	Ant2	-12.77	8	Pass
NVNT	n40	2437	Ant2	-13.02	8	Pass
NVNT	n40	2452	Ant2	-13.34	8	Pass
NVNT	ax20	2412	Ant1	-9.89	8	Pass
NVNT	ax20	2437	Ant1	-9.99	8	Pass
NVNT	ax20	2462	Ant1	-10.34	8	Pass
NVNT	ax20	2412	Ant2	-10.18	8	Pass
NVNT	ax20	2437	Ant2	-10.8	8	Pass
NVNT	ax20	2462	Ant2	-12.55	8	Pass
NVNT	ax40	2422	Ant1	-12.86	8	Pass
NVNT	ax40	2437	Ant1	-11.45	8	Pass
NVNT	ax40	2452	Ant1	-12.22	8	Pass
NVNT	ax40	2422	Ant2	-13.8	8	Pass
NVNT	ax40	2437	Ant2	-14.26	8	Pass
NVNT	ax40	2452	Ant2	-13.48	8	Pass

Test Graphs

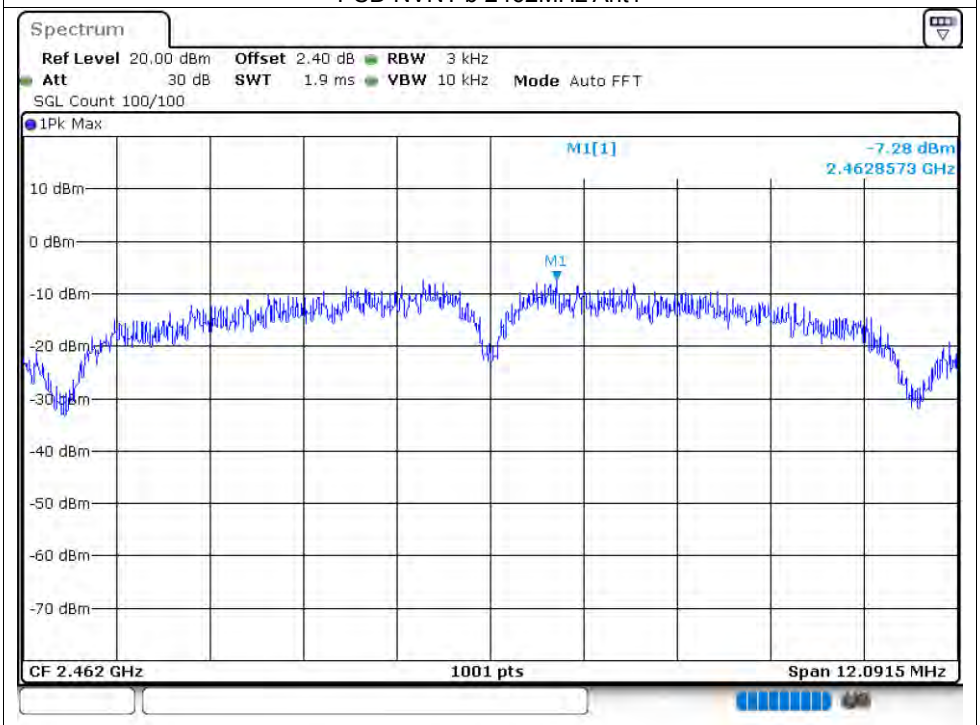
PSD NVNT b 2412MHz Ant1



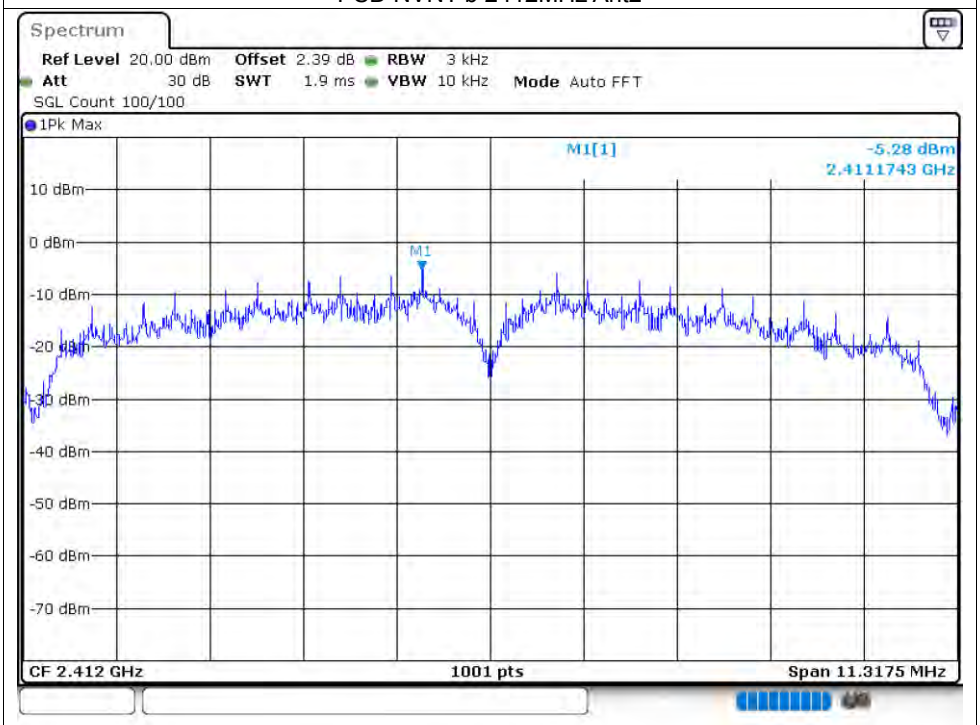
PSD NVNT b 2437MHz Ant1



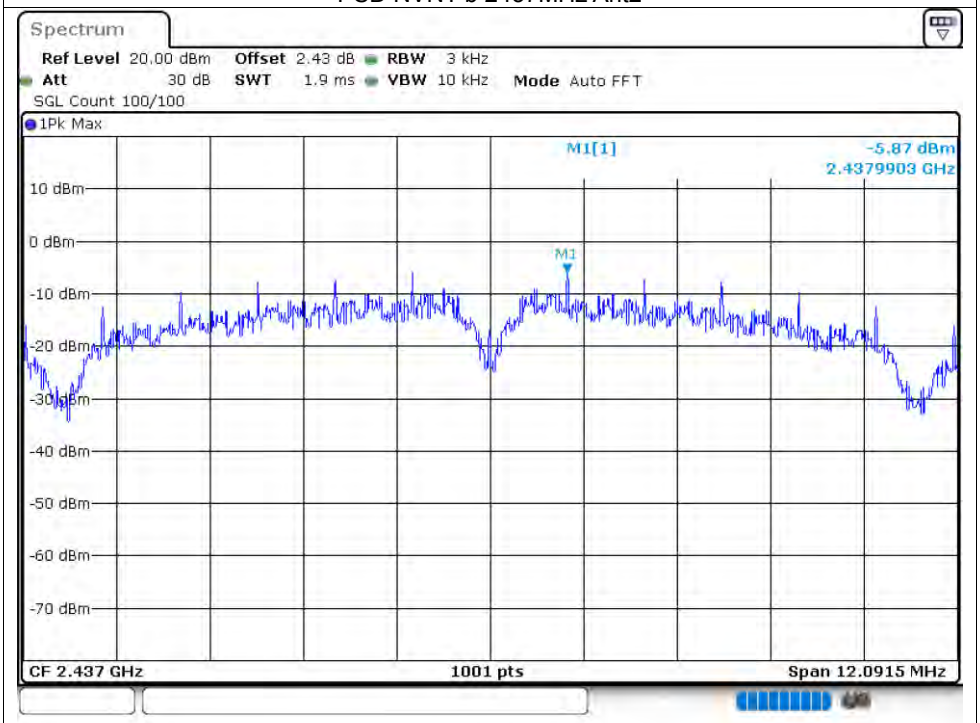
PSD NVNT b 2462MHz Ant1



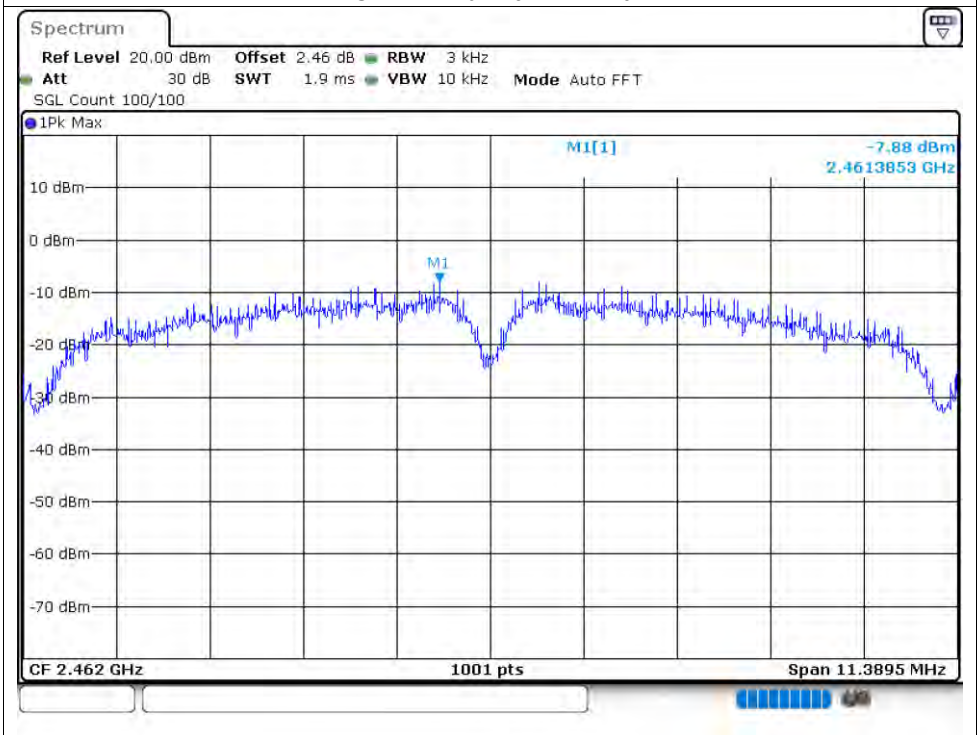
PSD NVNT b 2412MHz Ant2



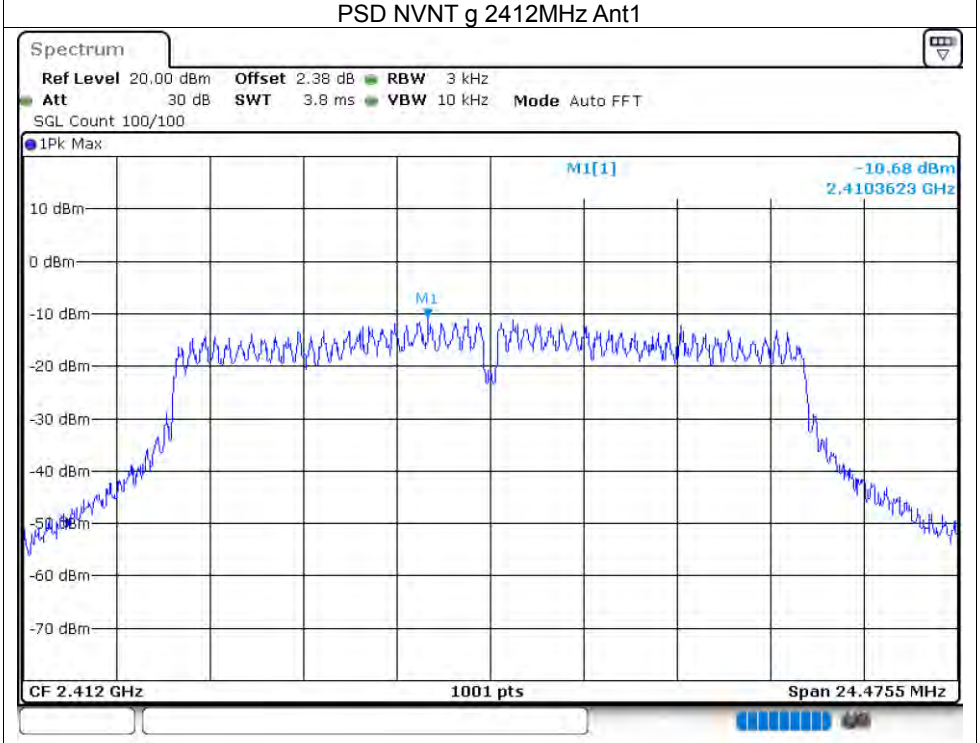
PSD NVNT b 2437MHz Ant2



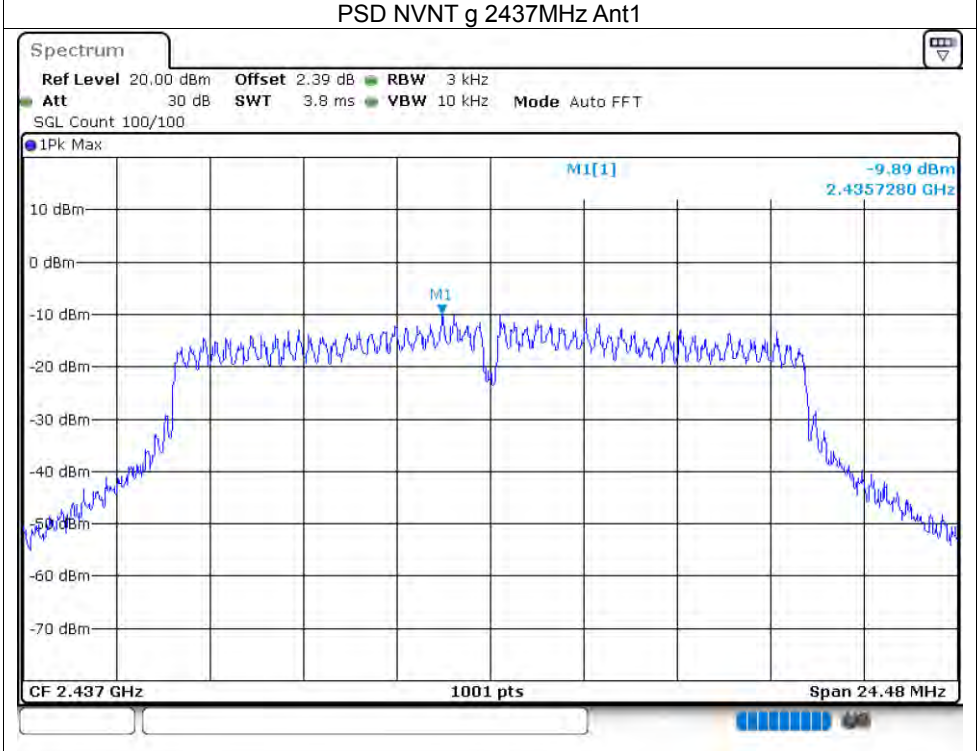
PSD NVNT b 2462MHz Ant2



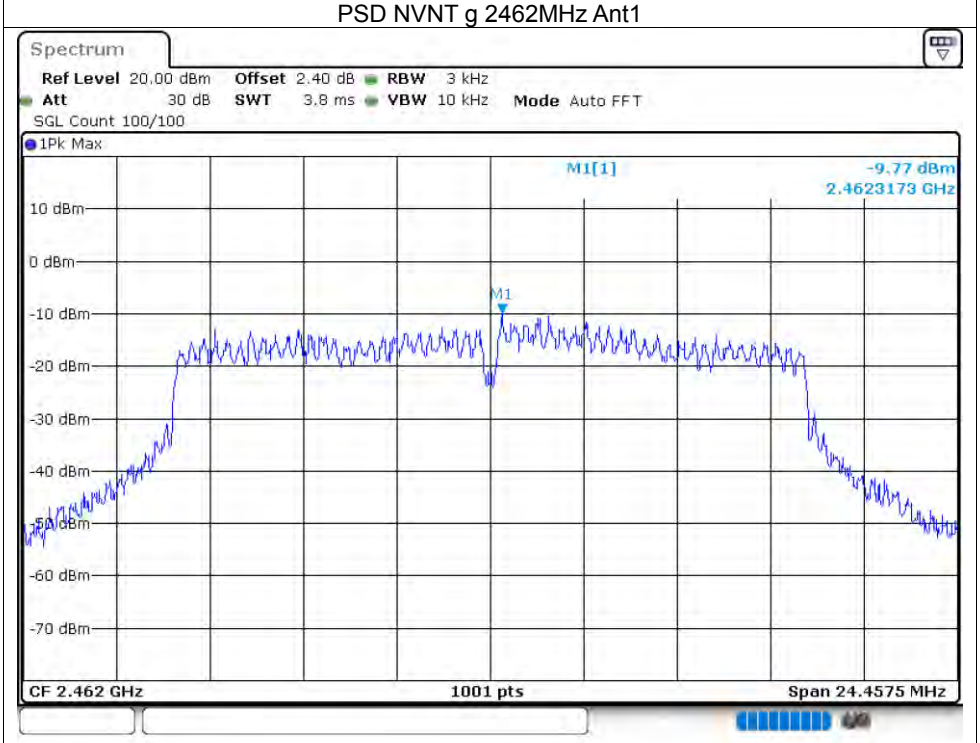
PSD NVNT g 2412MHz Ant1



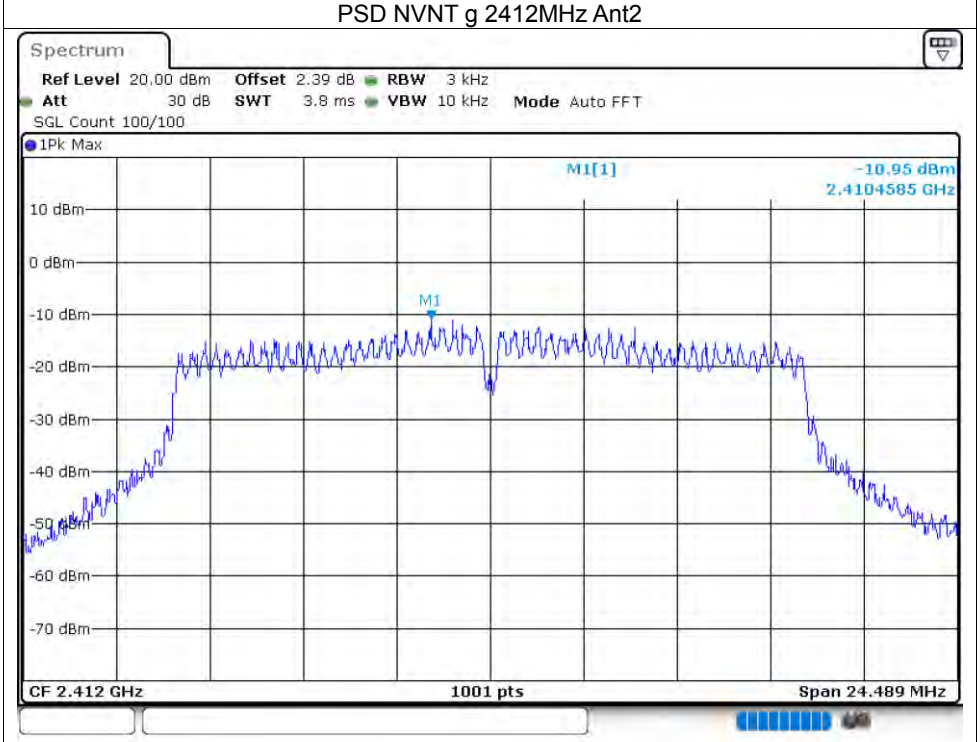
PSD NVNT g 2437MHz Ant1



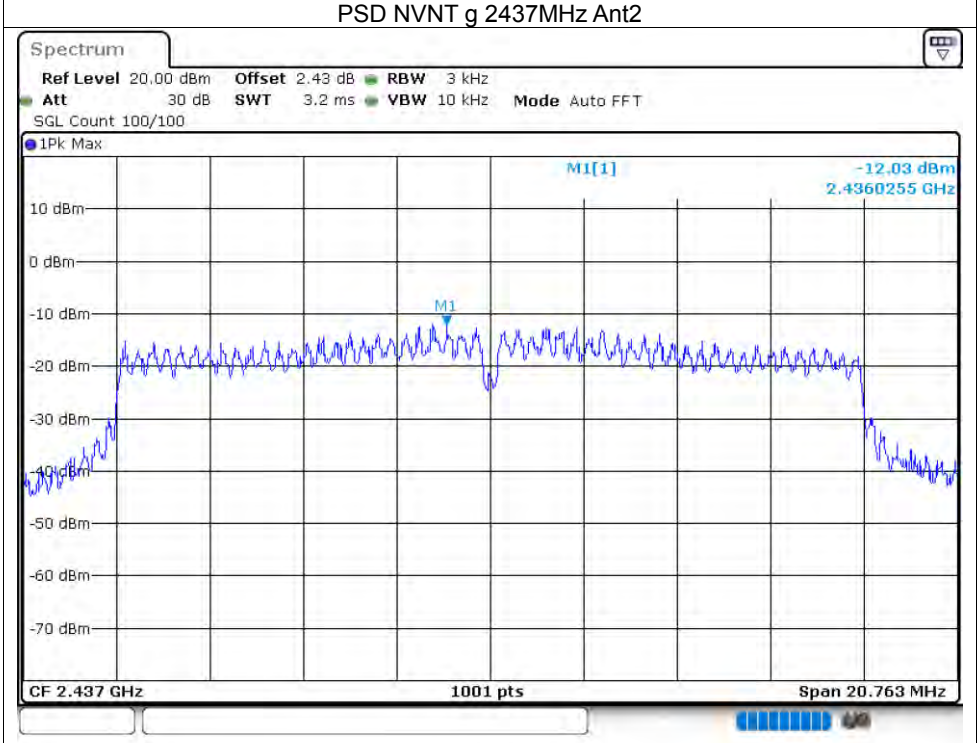
PSD NVNT g 2462MHz Ant1



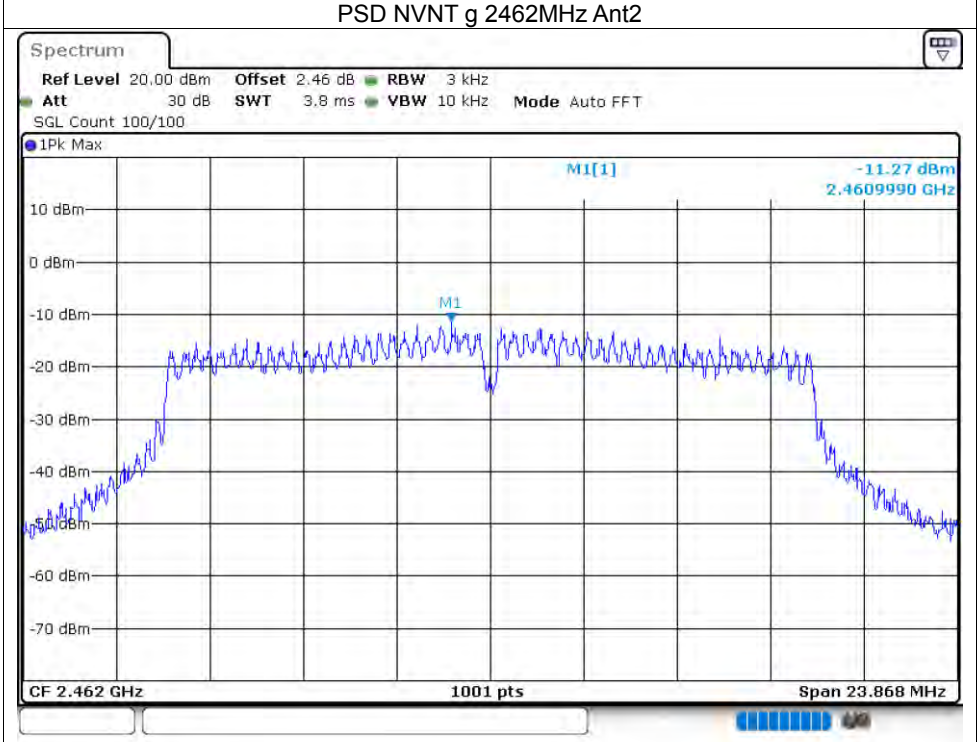
PSD NVNT g 2412MHz Ant2



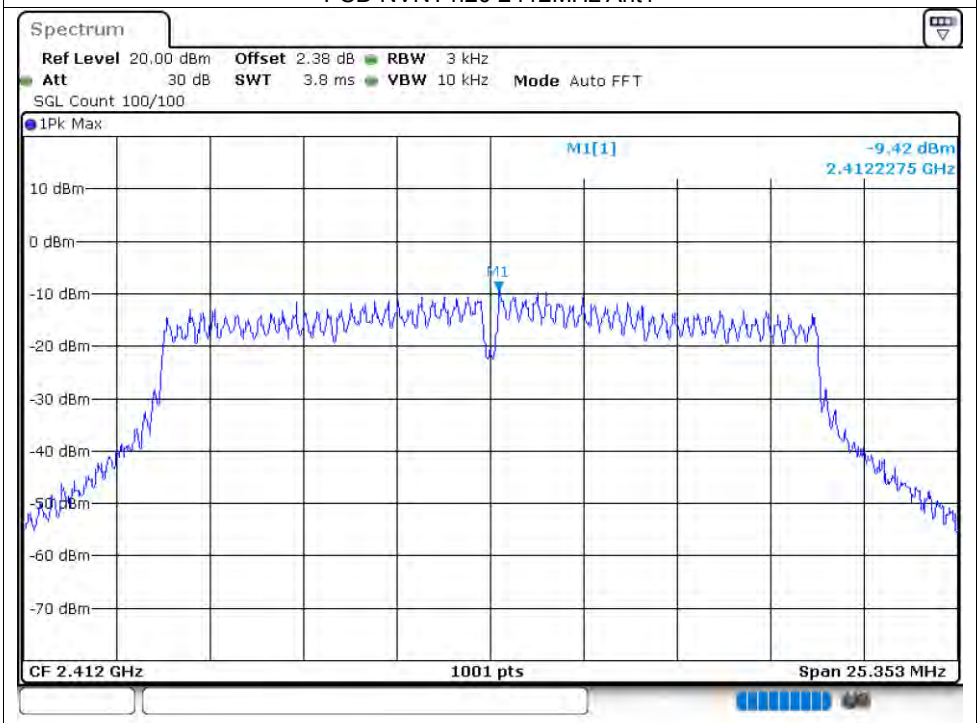
PSD NVNT g 2437MHz Ant2



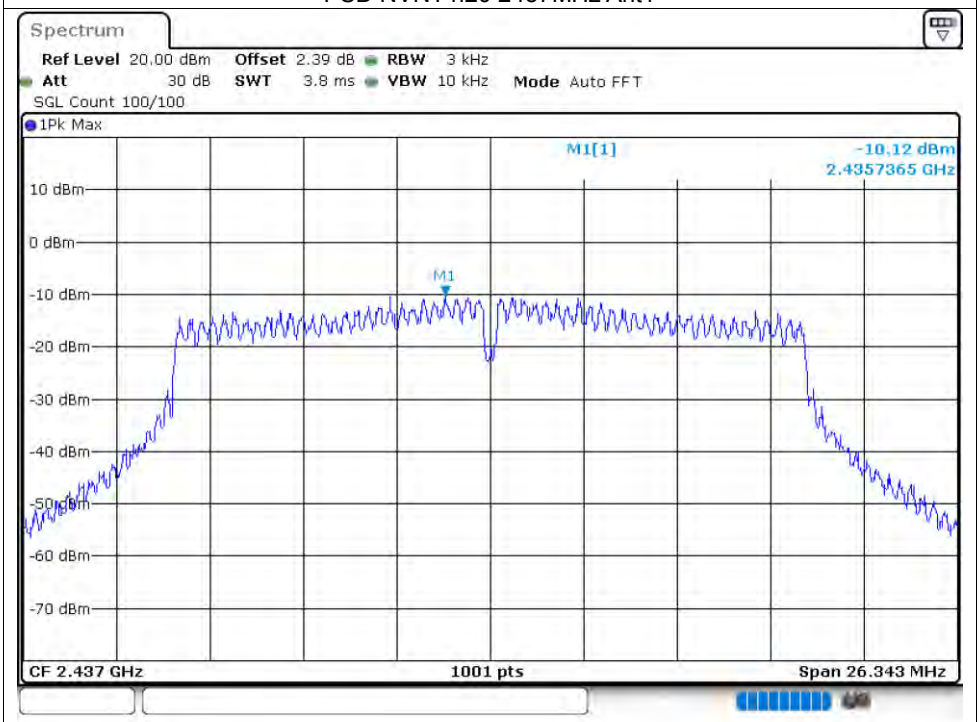
PSD NVNT g 2462MHz Ant2



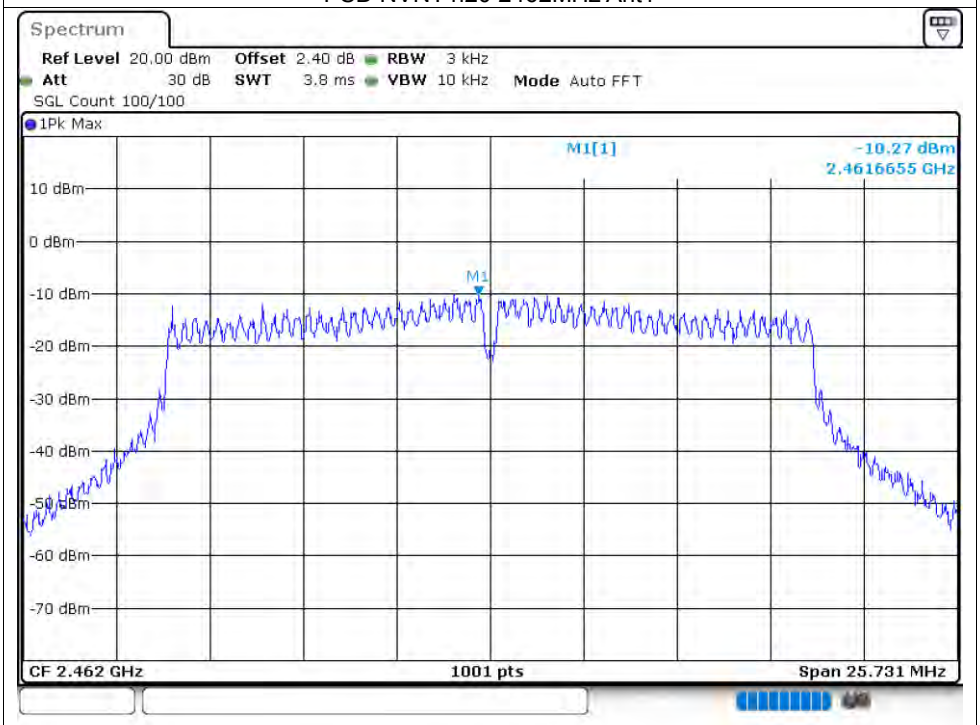
PSD NVNT n20 2412MHz Ant1



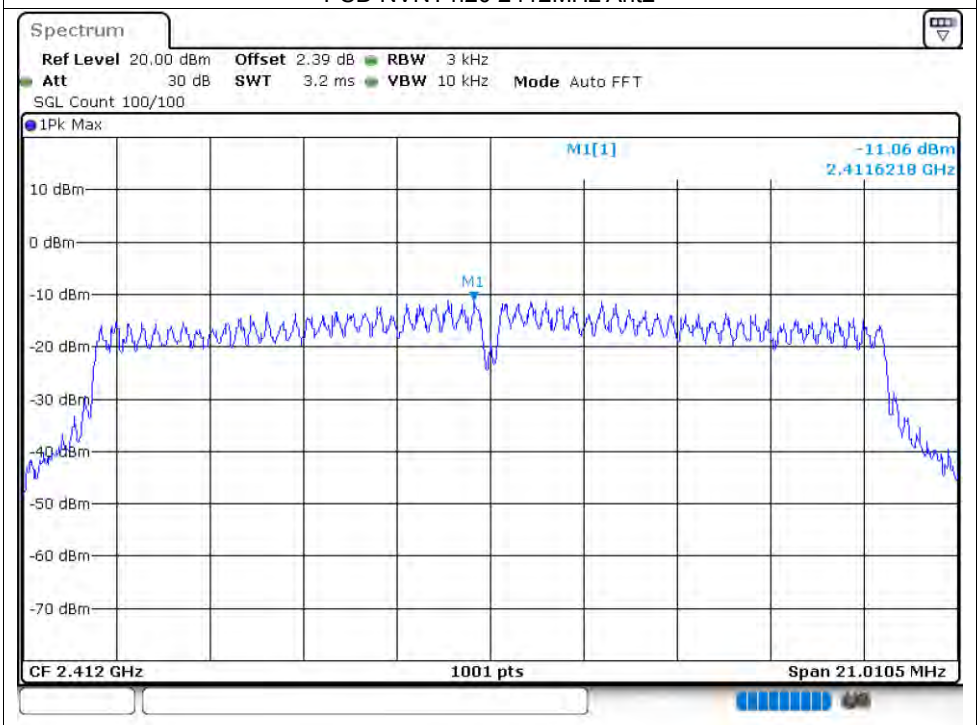
PSD NVNT n20 2437MHz Ant1



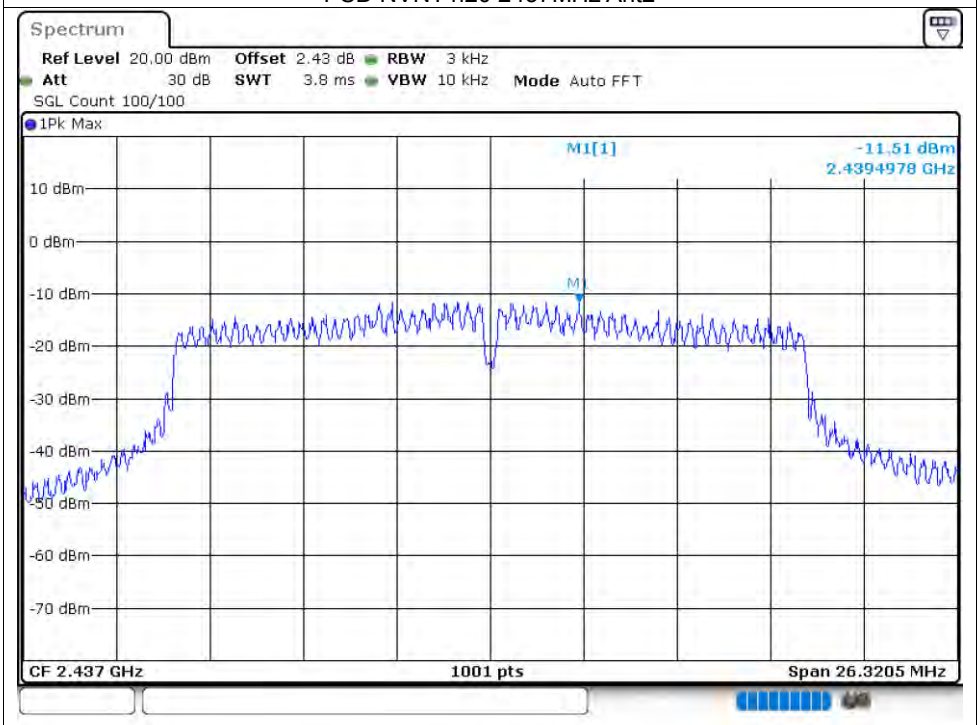
PSD NVNT n20 2462MHz Ant1



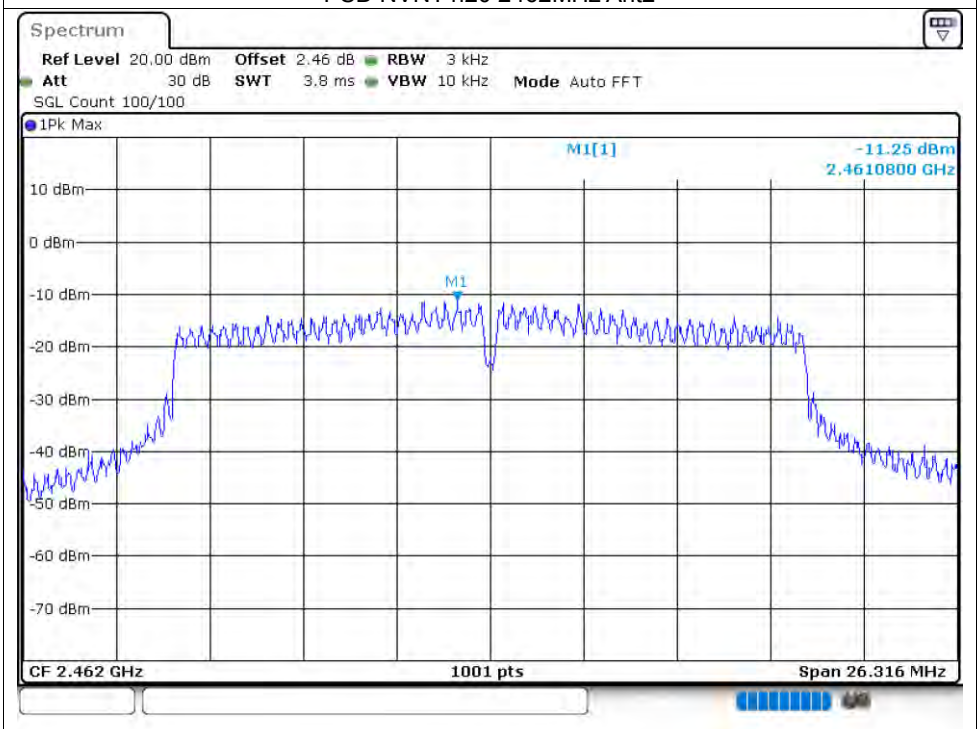
PSD NVNT n20 2412MHz Ant2



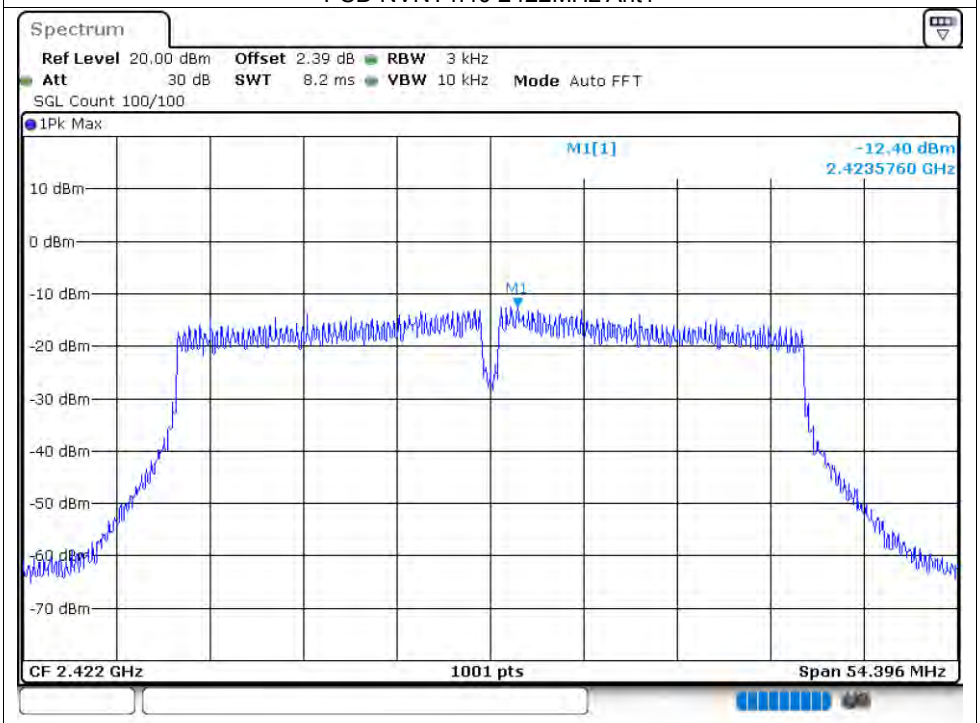
PSD NVNT n20 2437MHz Ant2



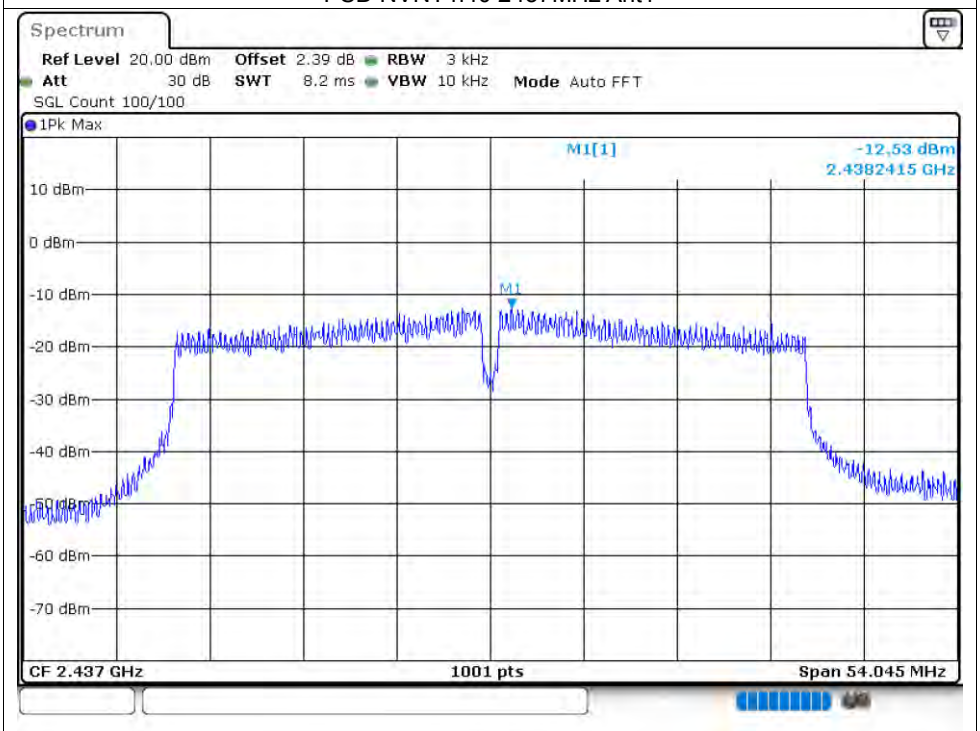
PSD NVNT n20 2462MHz Ant2



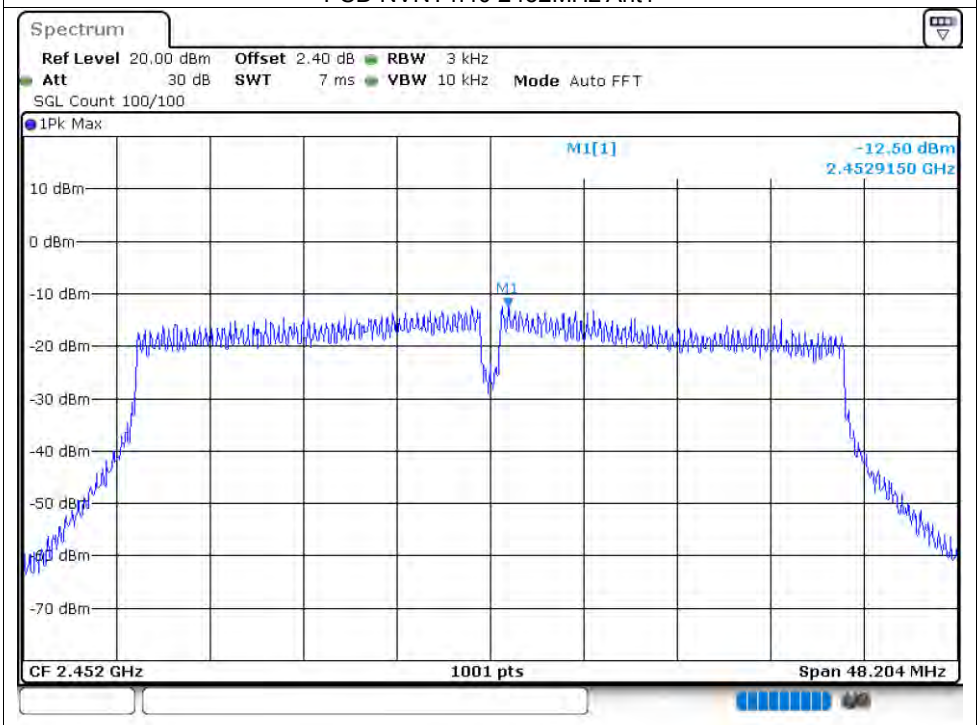
PSD NVNT n40 2422MHz Ant1



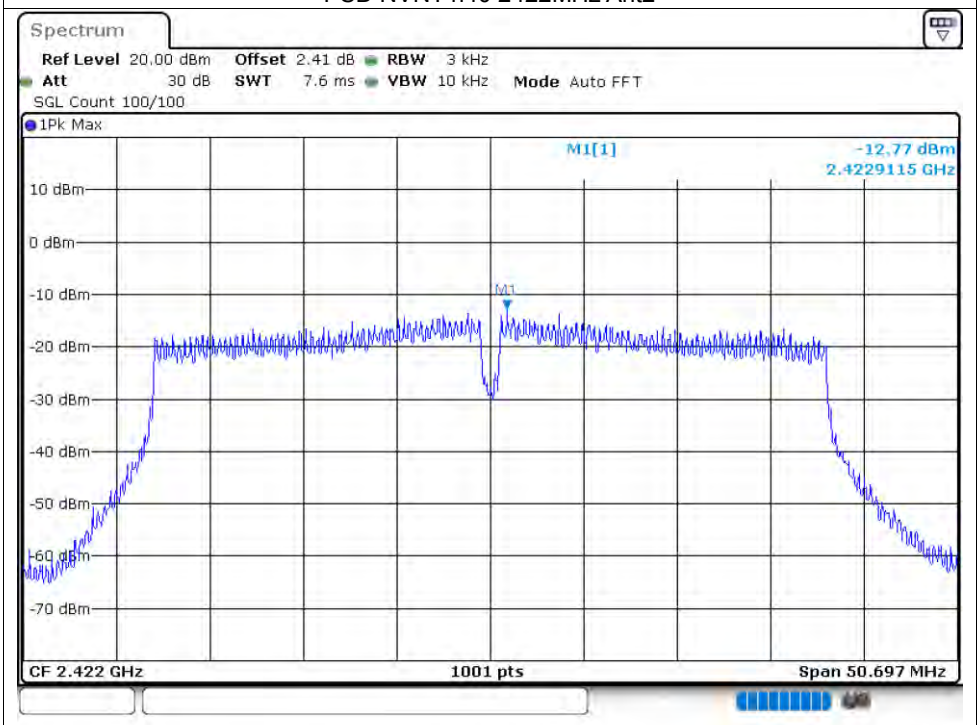
PSD NVNT n40 2437MHz Ant1



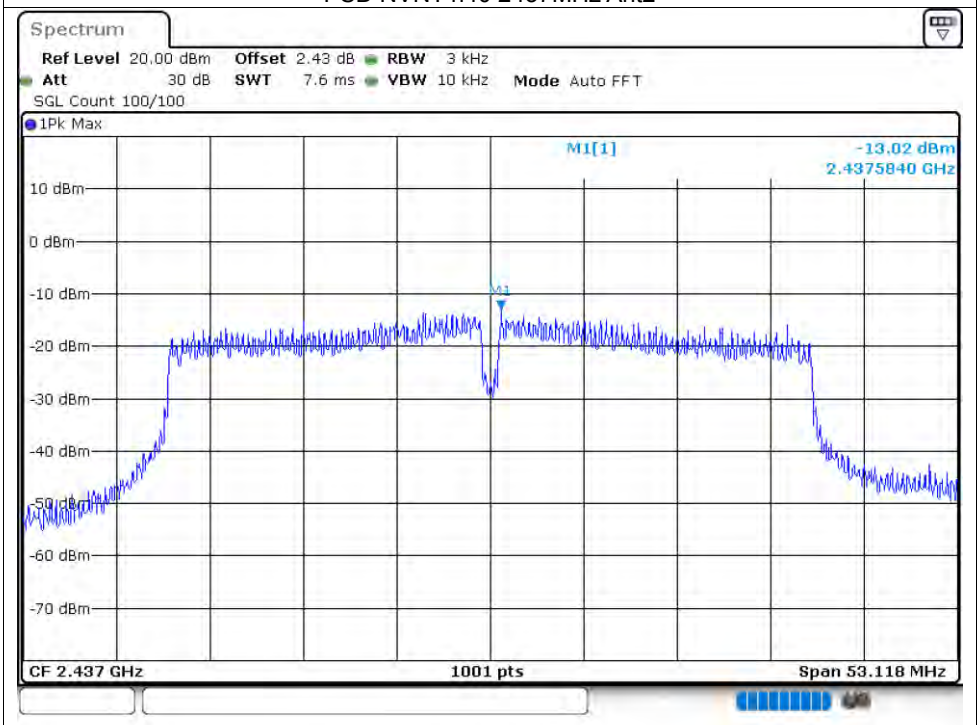
PSD NVNT n40 2452MHz Ant1



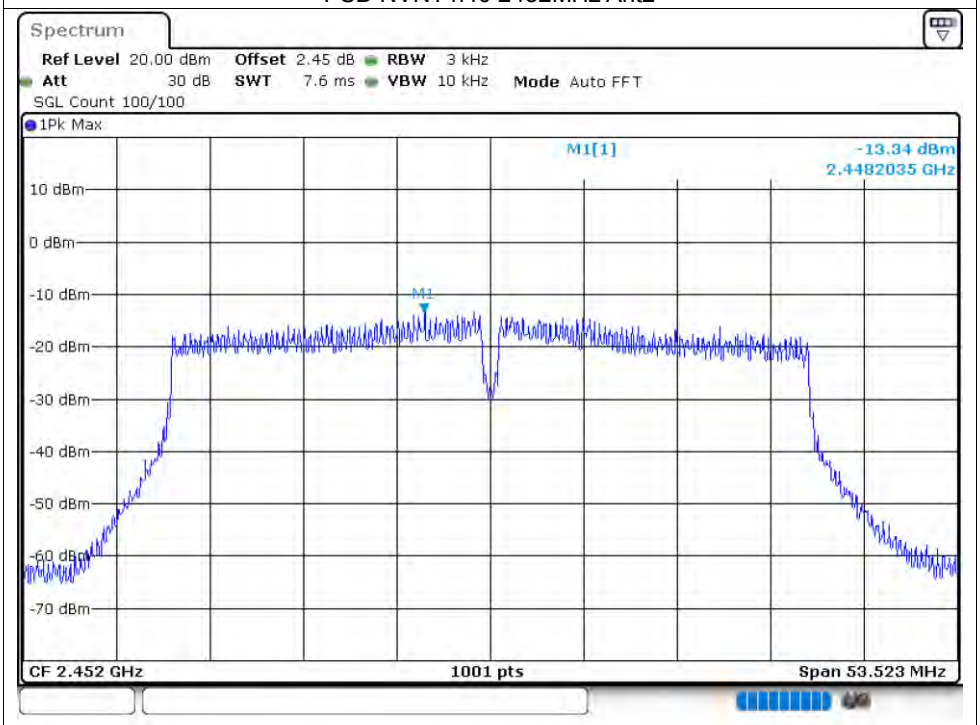
PSD NVNT n40 2422MHz Ant2



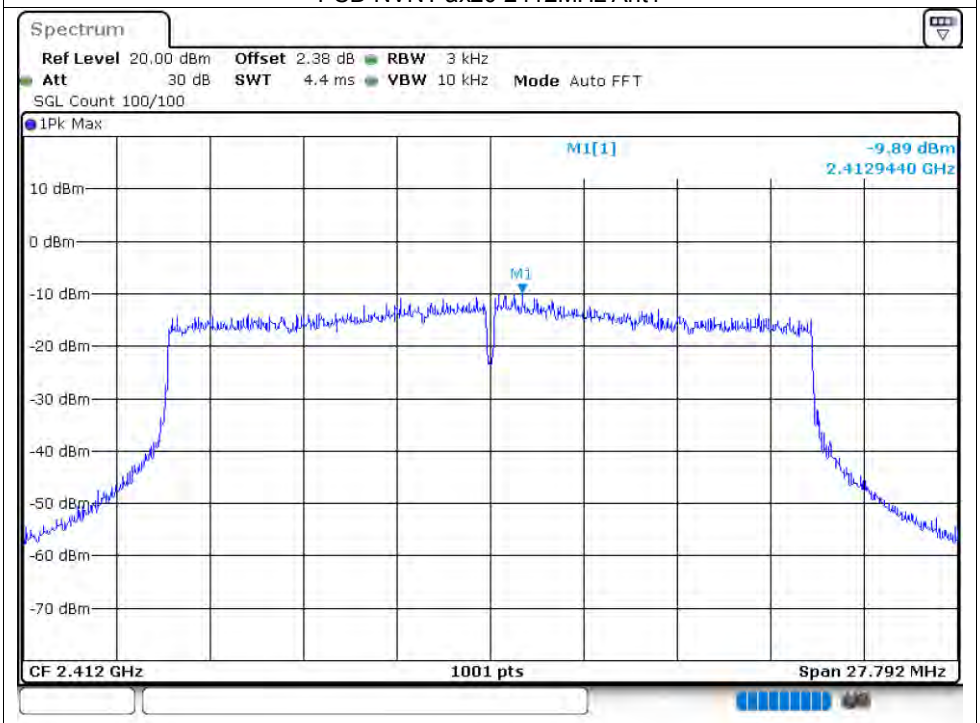
PSD NVNT n40 2437MHz Ant2



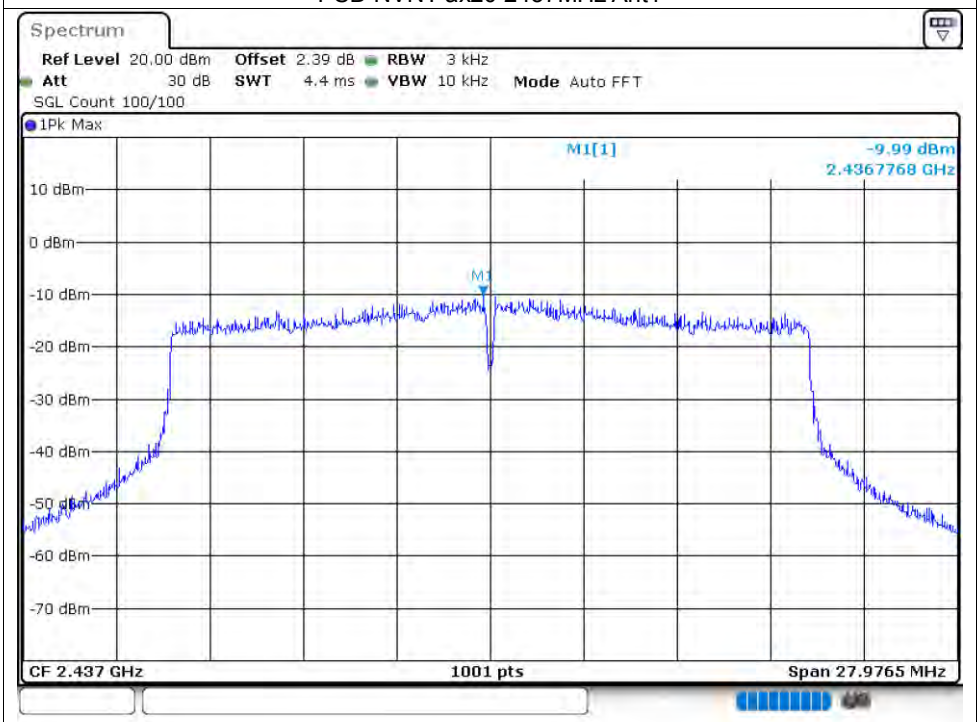
PSD NVNT n40 2452MHz Ant2



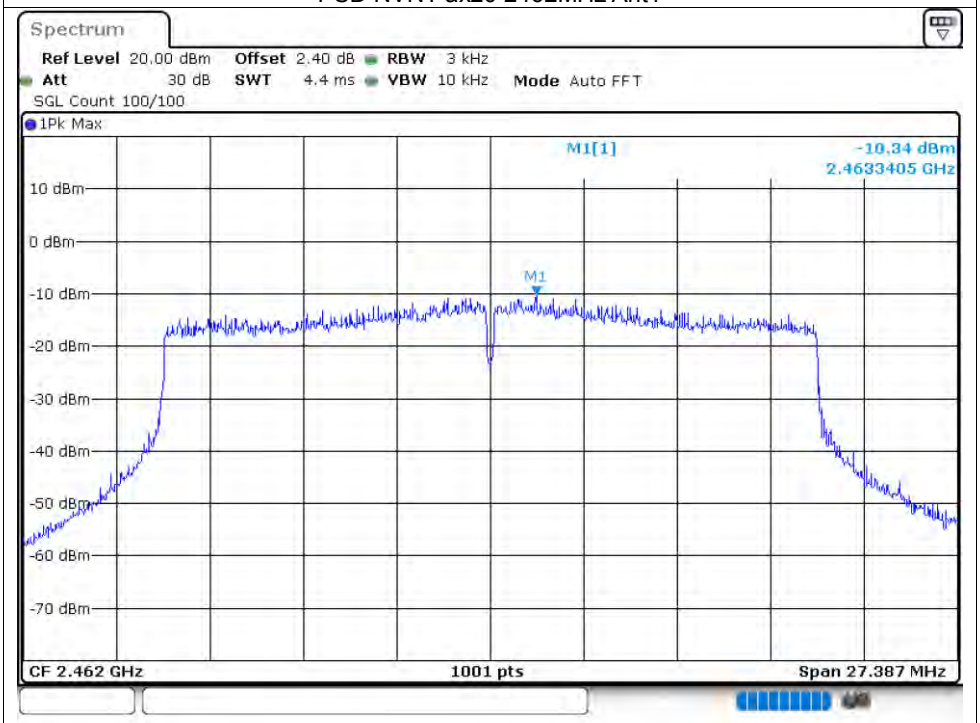
PSD NVNT ax20 2412MHz Ant1



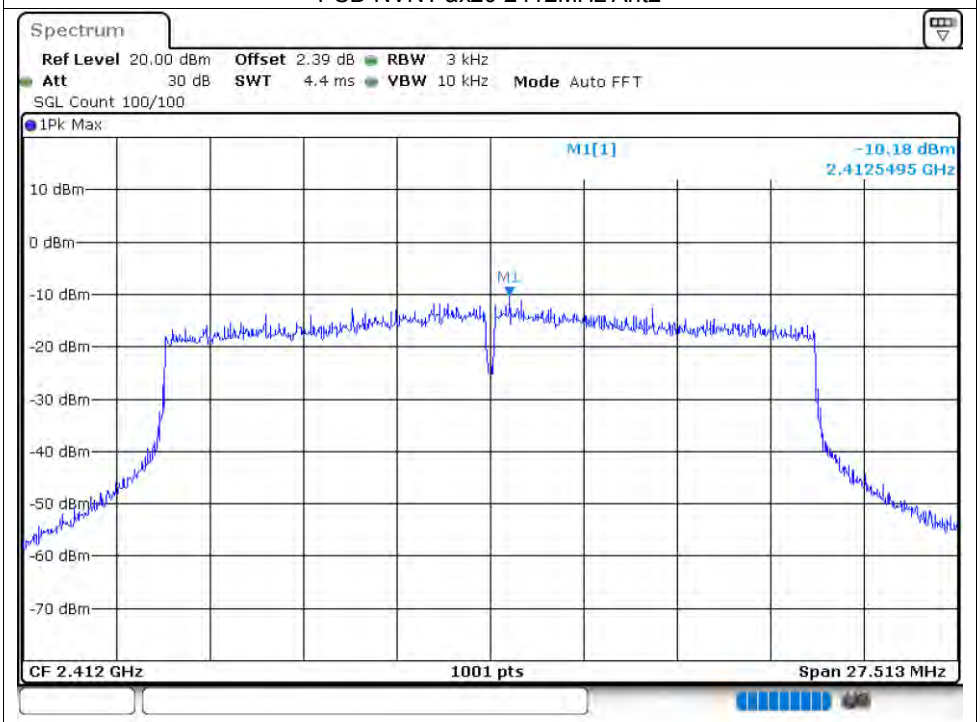
PSD NVNT ax20 2437MHz Ant1



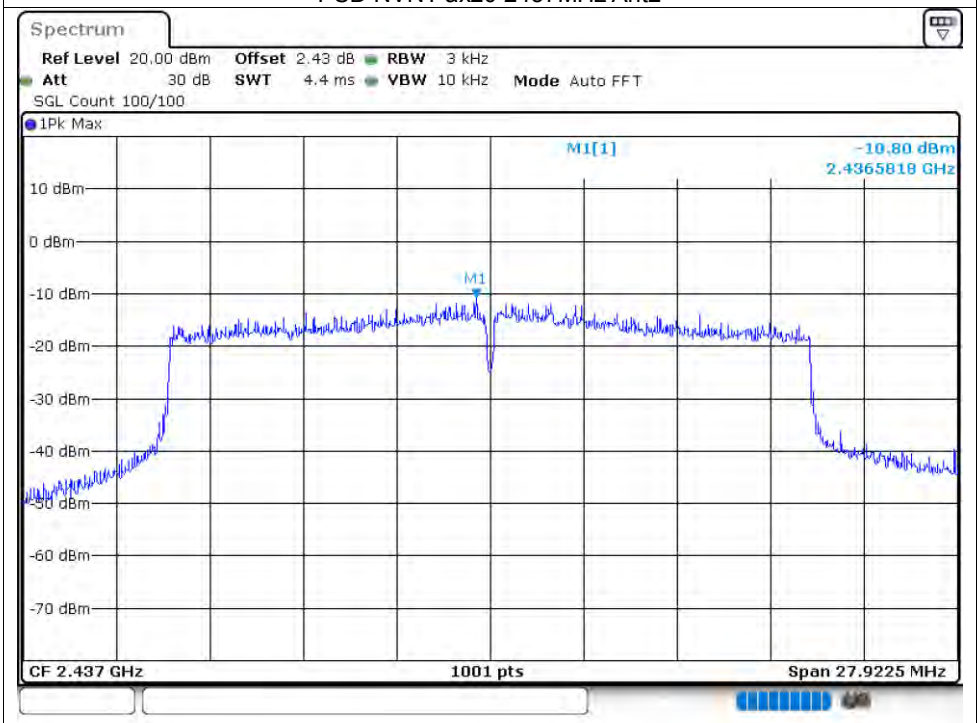
PSD NVNT ax20 2462MHz Ant1



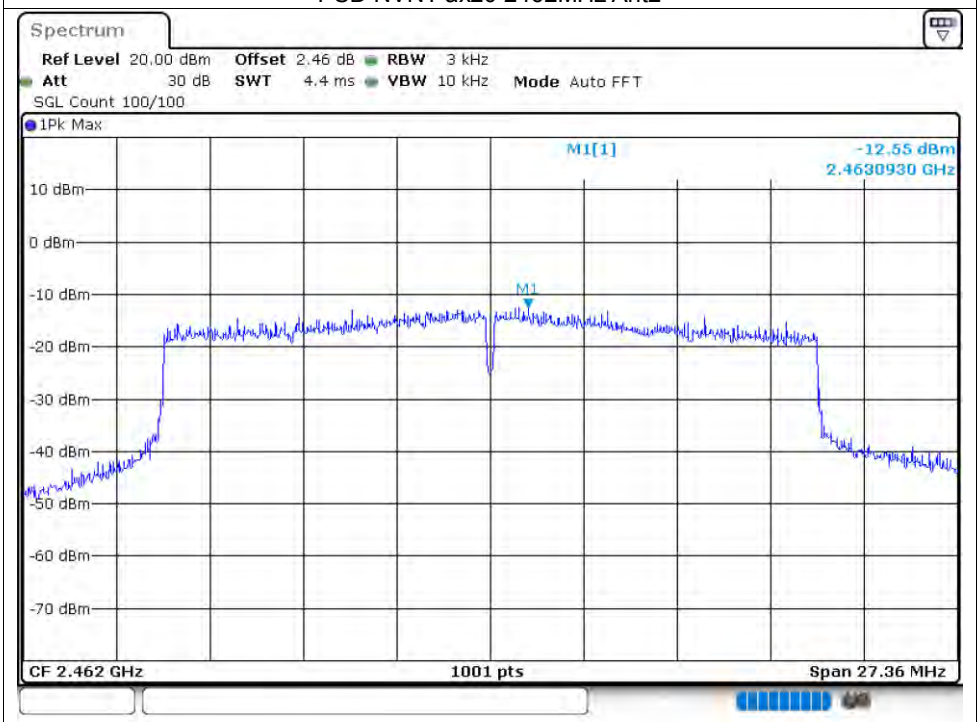
PSD NVNT ax20 2412MHz Ant2



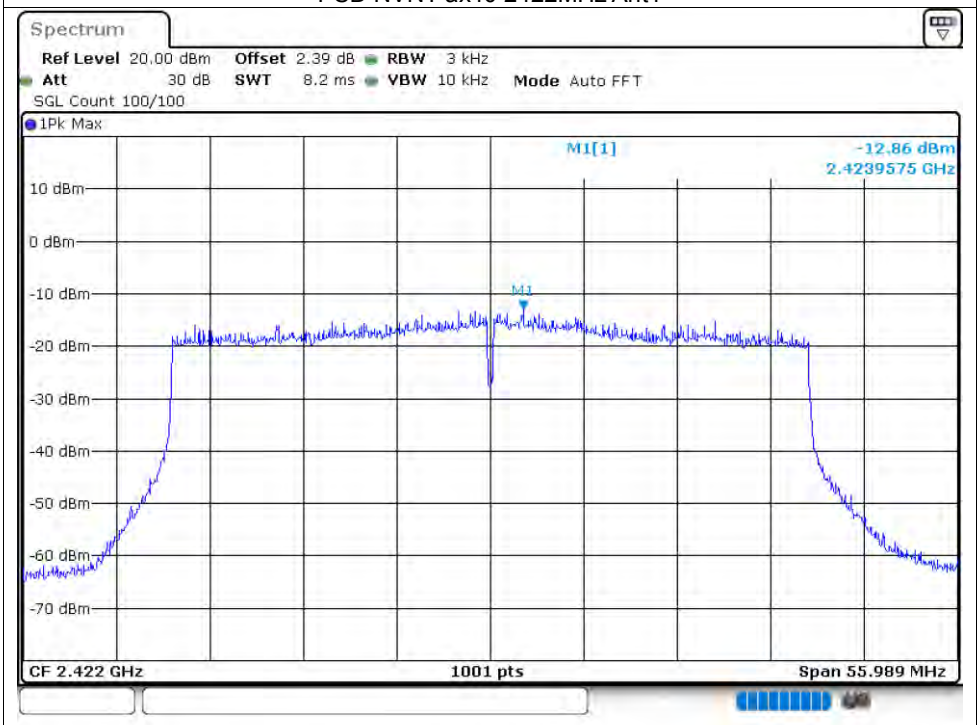
PSD NVNT ax20 2437MHz Ant2



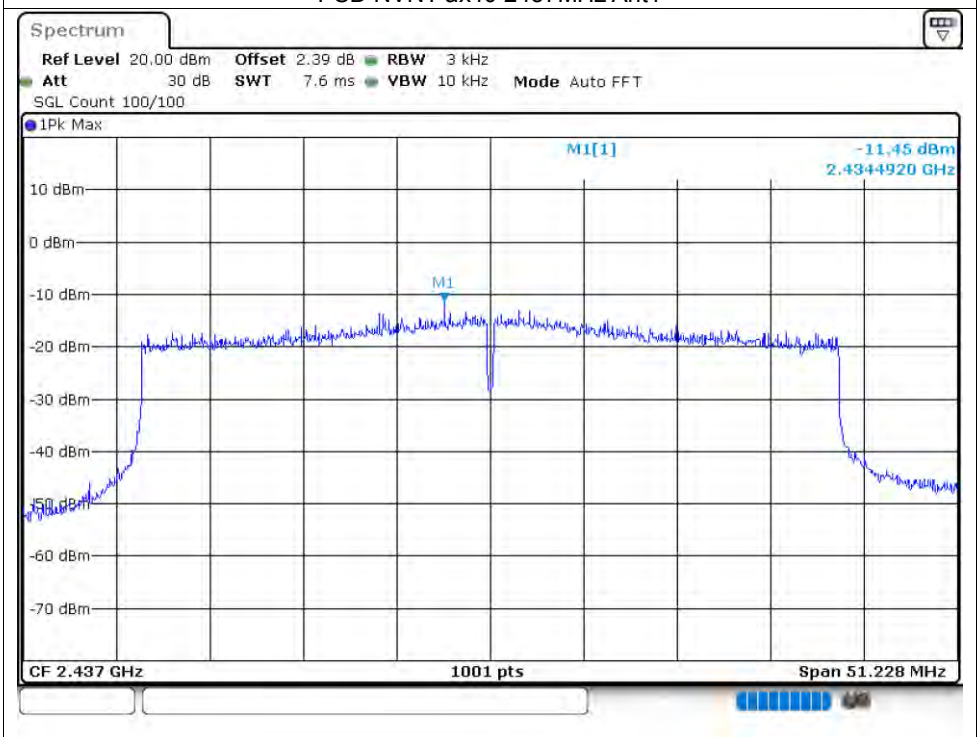
PSD NVNT ax20 2462MHz Ant2



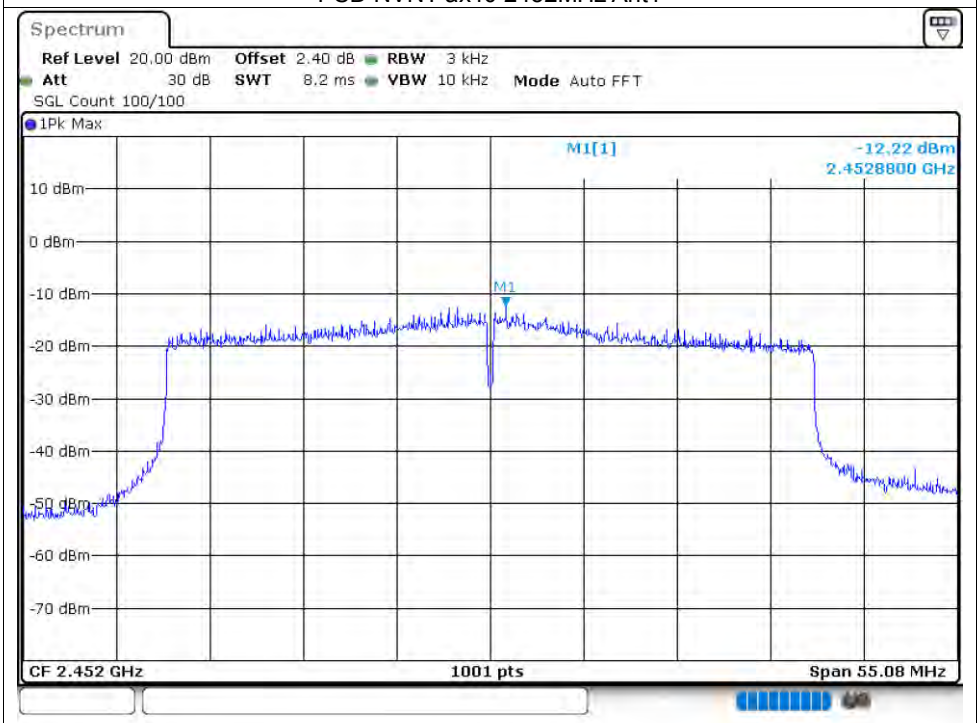
PSD NVNT ax40 2422MHz Ant1



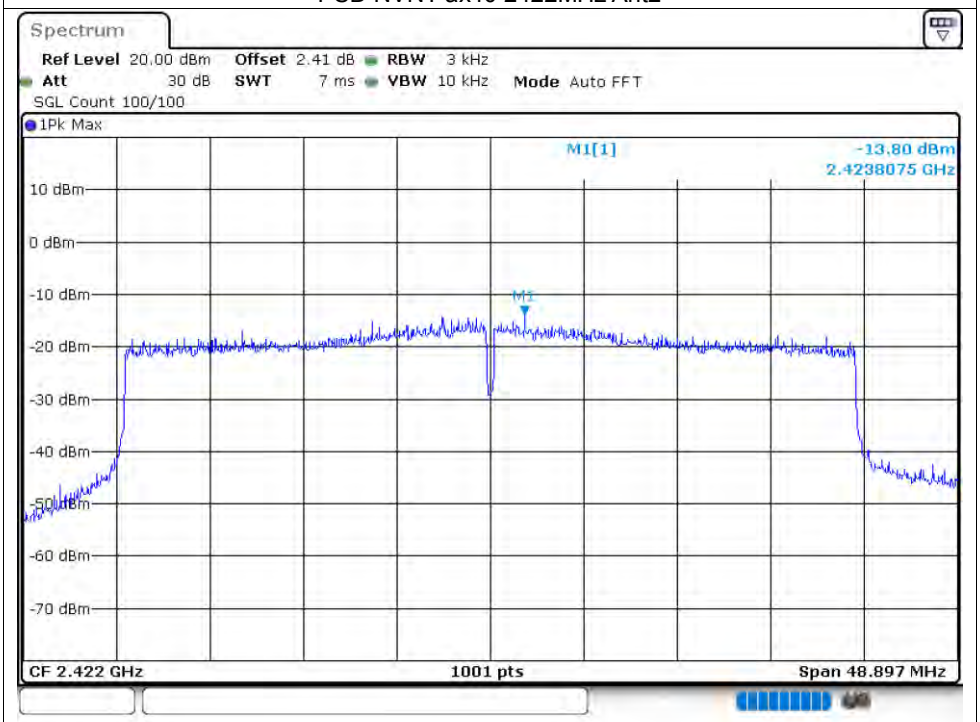
PSD NVNT ax40 2437MHz Ant1



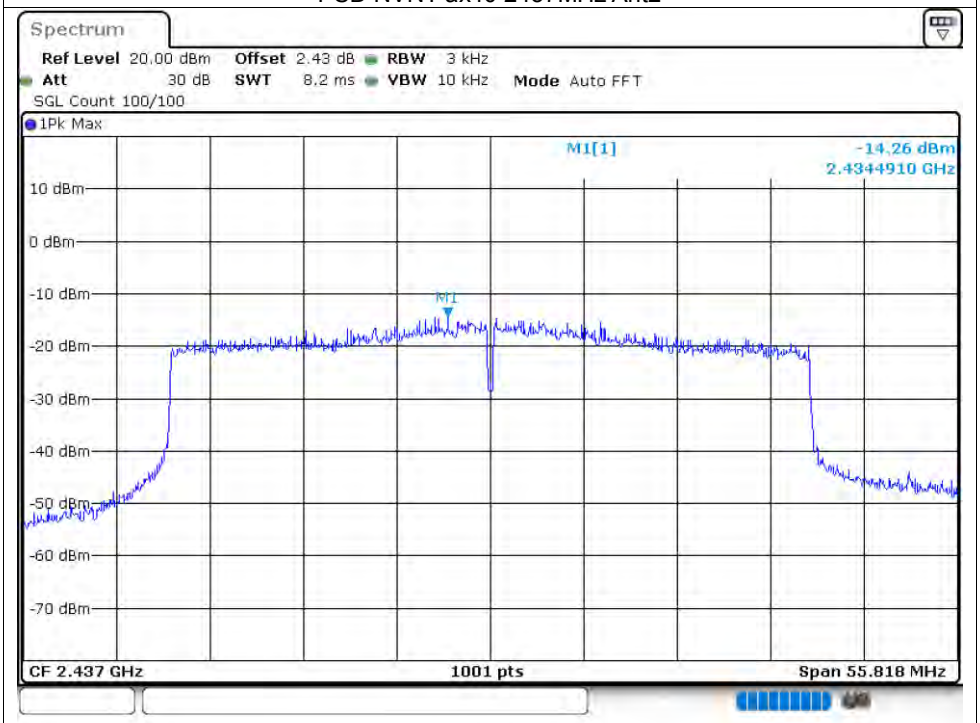
PSD NVNT ax40 2452MHz Ant1



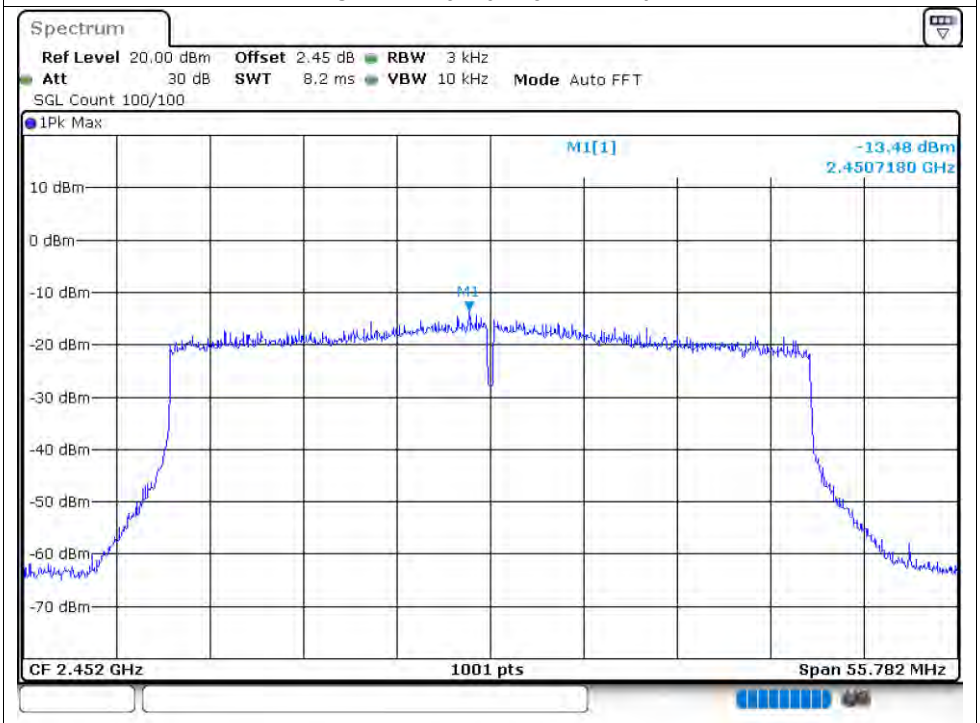
PSD NVNT ax40 2422MHz Ant2



PSD NVNT ax40 2437MHz Ant2



PSD NVNT ax40 2452MHz Ant2

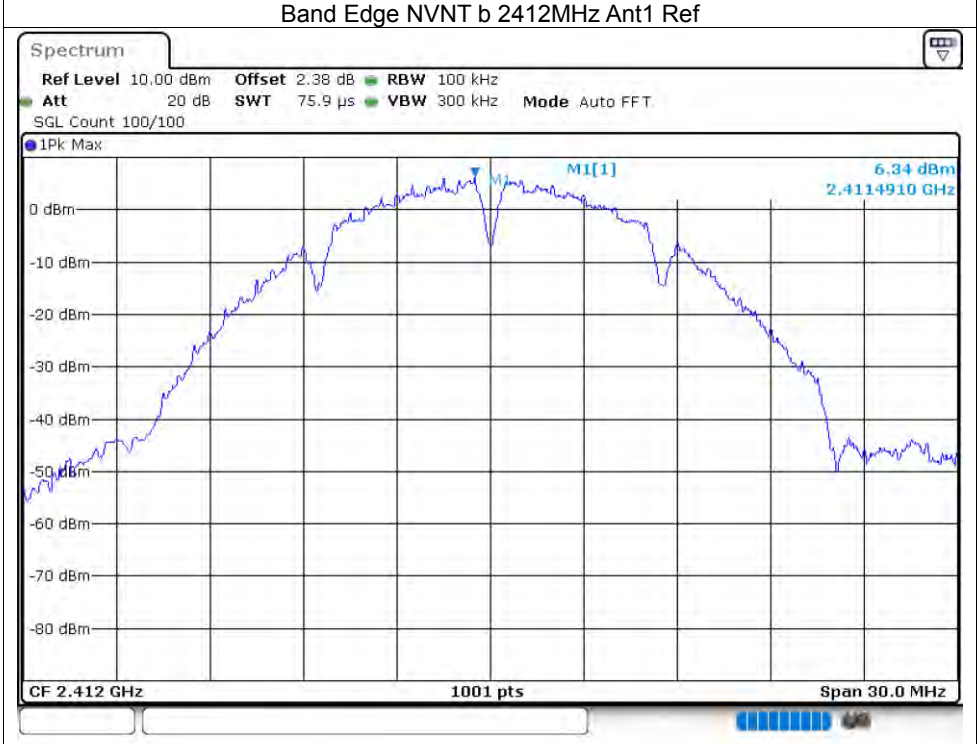


8.1.6 **Band Edge**

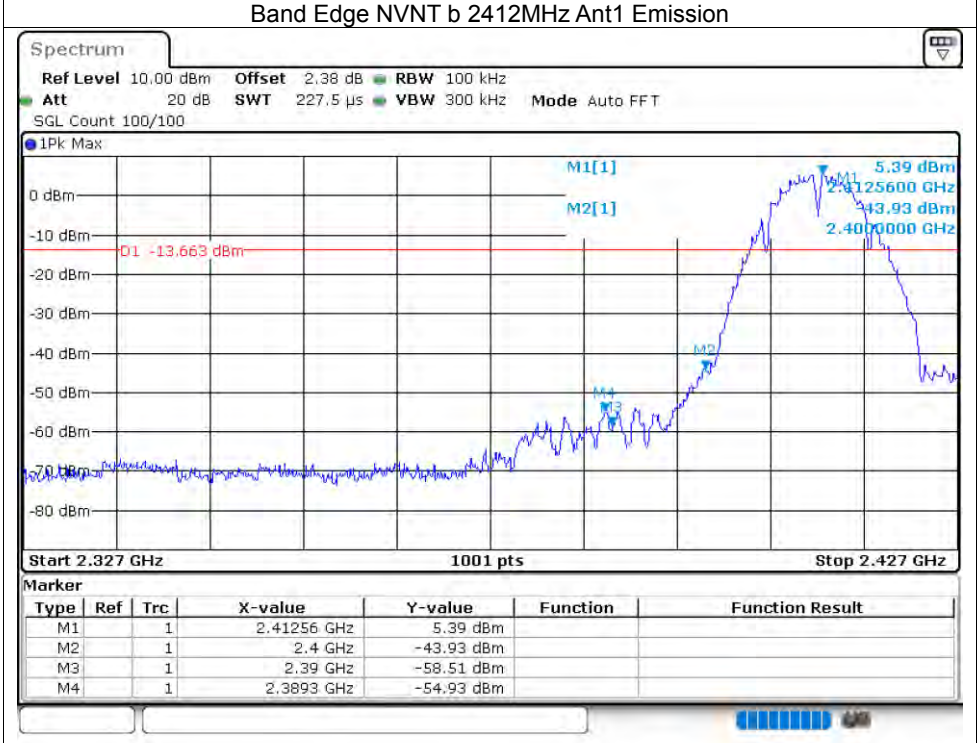
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-61.26	-20	Pass
NVNT	b	2462	Ant1	-66.42	-20	Pass
NVNT	b	2412	Ant2	-60.08	-20	Pass
NVNT	b	2462	Ant2	-61.47	-20	Pass
NVNT	g	2412	Ant1	-54.18	-20	Pass
NVNT	g	2462	Ant1	-59.35	-20	Pass
NVNT	g	2412	Ant2	-51.03	-20	Pass
NVNT	g	2462	Ant2	-57.52	-20	Pass
NVNT	n20	2412	Ant1	-52.51	-20	Pass
NVNT	n20	2462	Ant1	-56.19	-20	Pass
NVNT	n20	2412	Ant2	-53.85	-20	Pass
NVNT	n20	2462	Ant2	-38.13	-20	Pass
NVNT	n40	2422	Ant1	-48.34	-20	Pass
NVNT	n40	2452	Ant1	-50.18	-20	Pass
NVNT	n40	2422	Ant2	-44.32	-20	Pass
NVNT	n40	2452	Ant2	-46.59	-20	Pass
NVNT	ax20	2412	Ant1	-50.86	-20	Pass
NVNT	ax20	2462	Ant1	-53.71	-20	Pass
NVNT	ax20	2412	Ant2	-52.02	-20	Pass
NVNT	ax20	2462	Ant2	-34.57	-20	Pass
NVNT	ax40	2422	Ant1	-48.05	-20	Pass
NVNT	ax40	2452	Ant1	-33.55	-20	Pass
NVNT	ax40	2422	Ant2	-38.9	-20	Pass
NVNT	ax40	2452	Ant2	-41.79	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



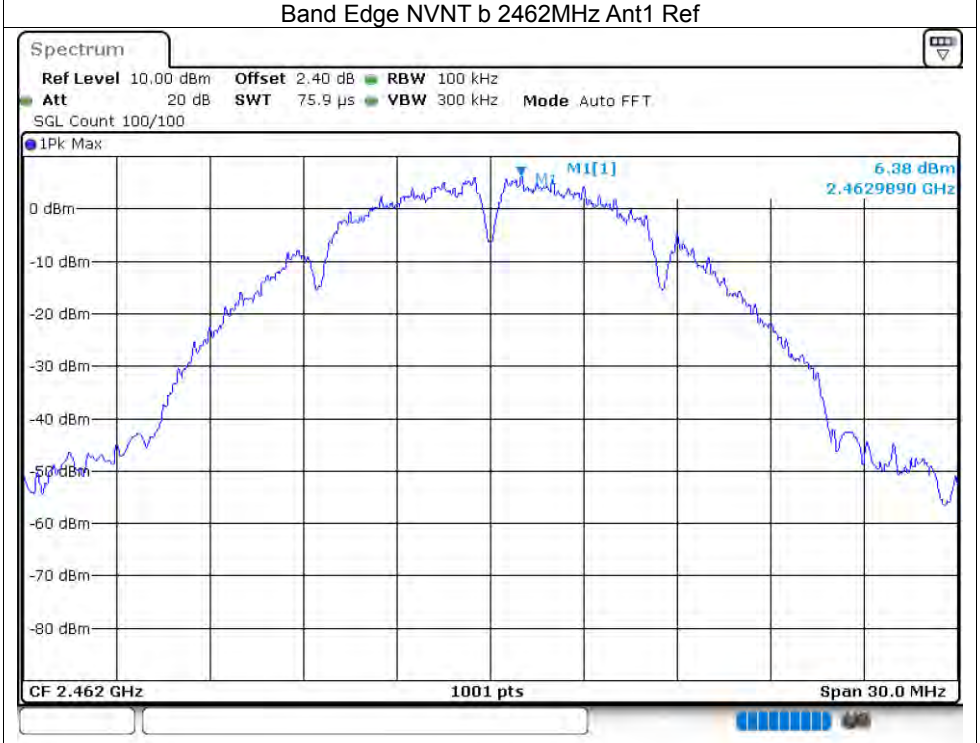
Band Edge NVNT b 2412MHz Ant1 Emission



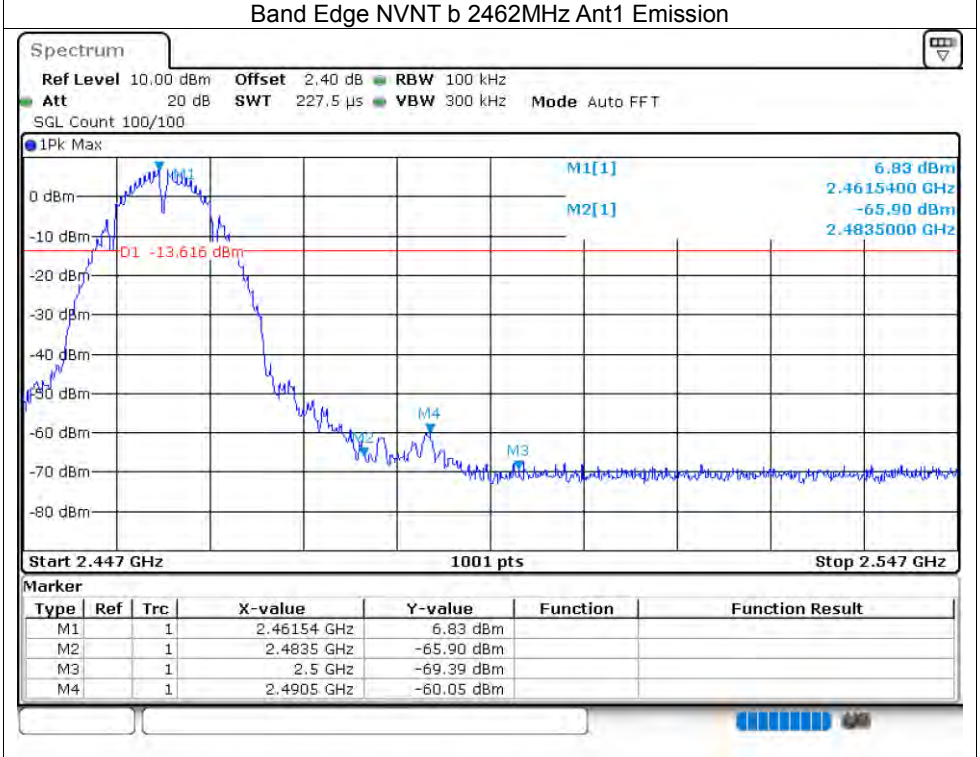
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41256 GHz	5.39 dBm		
M2		1	2.4 GHz	-43.93 dBm		
M3		1	2.39 GHz	-58.51 dBm		
M4		1	2.3893 GHz	-54.93 dBm		

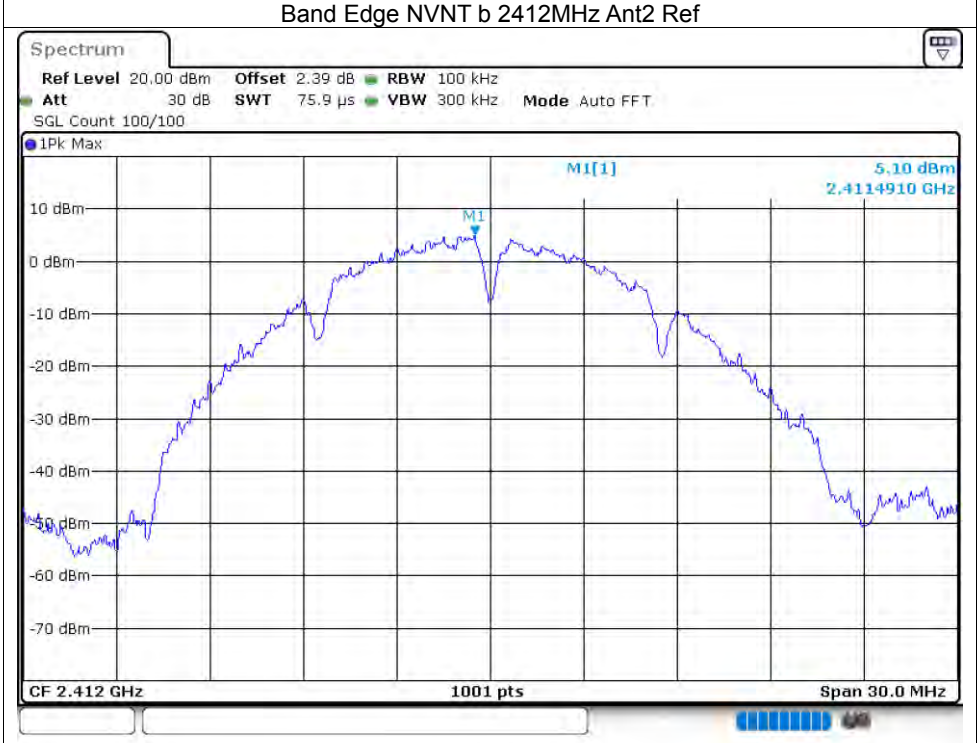
Band Edge NVNT b 2462MHz Ant1 Ref



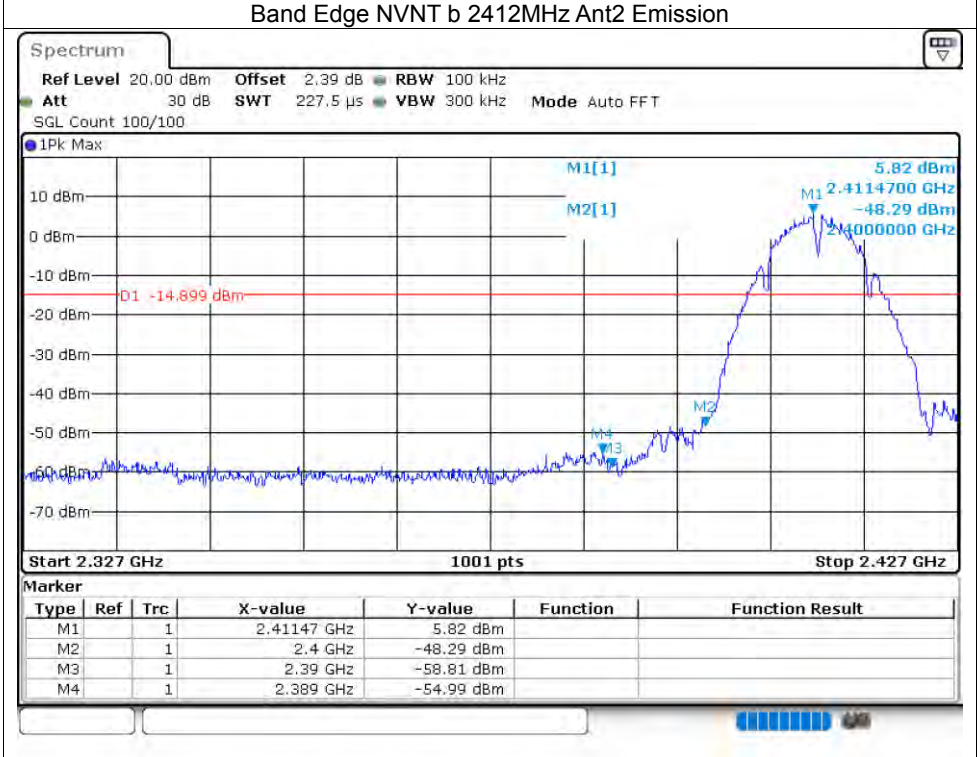
Band Edge NVNT b 2462MHz Ant1 Emission



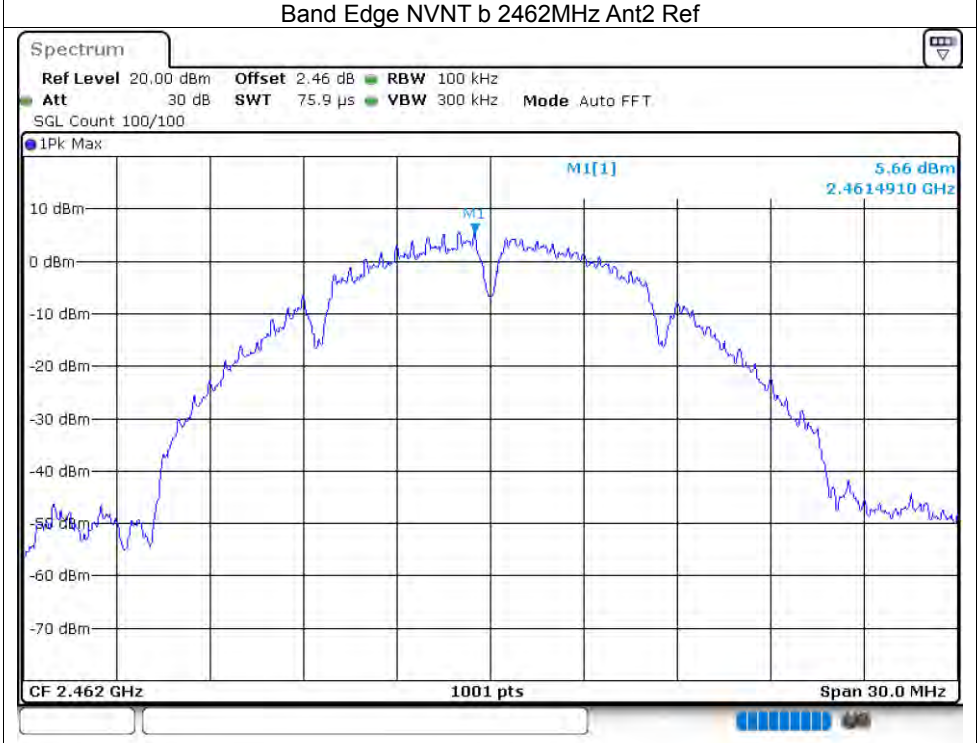
Band Edge NVNT b 2412MHz Ant2 Ref



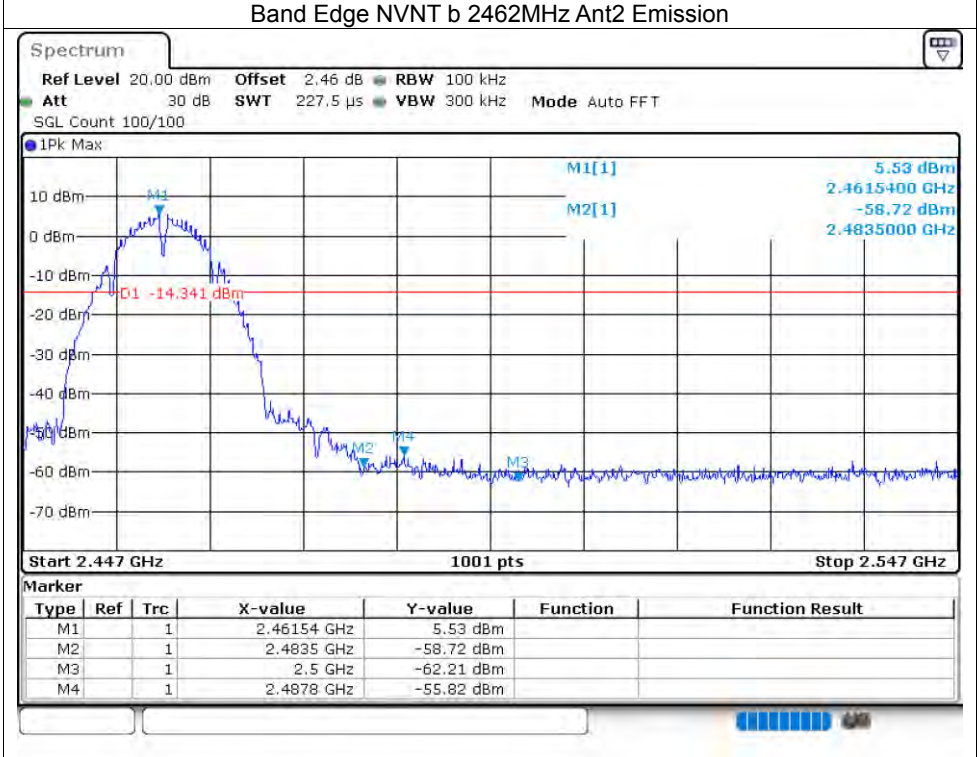
Band Edge NVNT b 2412MHz Ant2 Emission



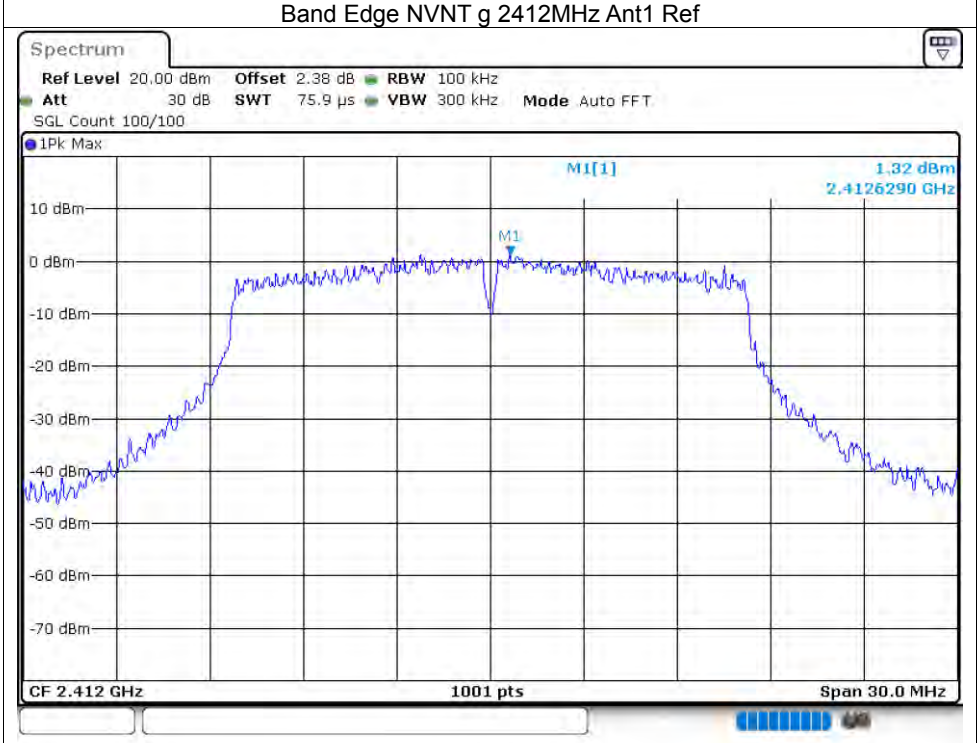
Band Edge NVNT b 2462MHz Ant2 Ref



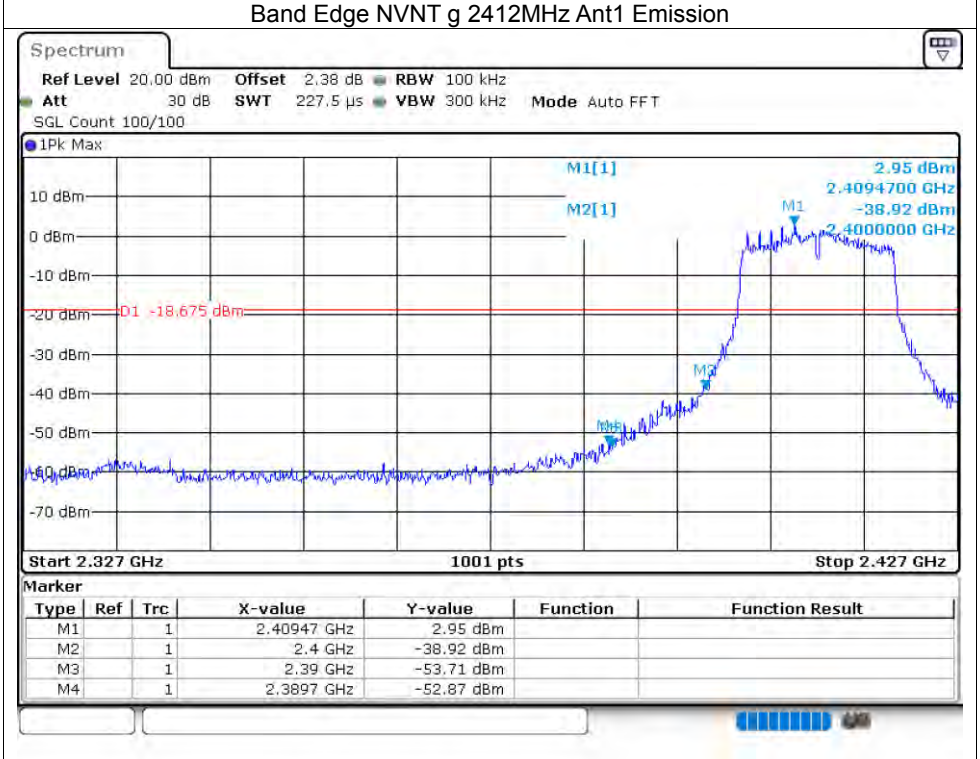
Band Edge NVNT b 2462MHz Ant2 Emission



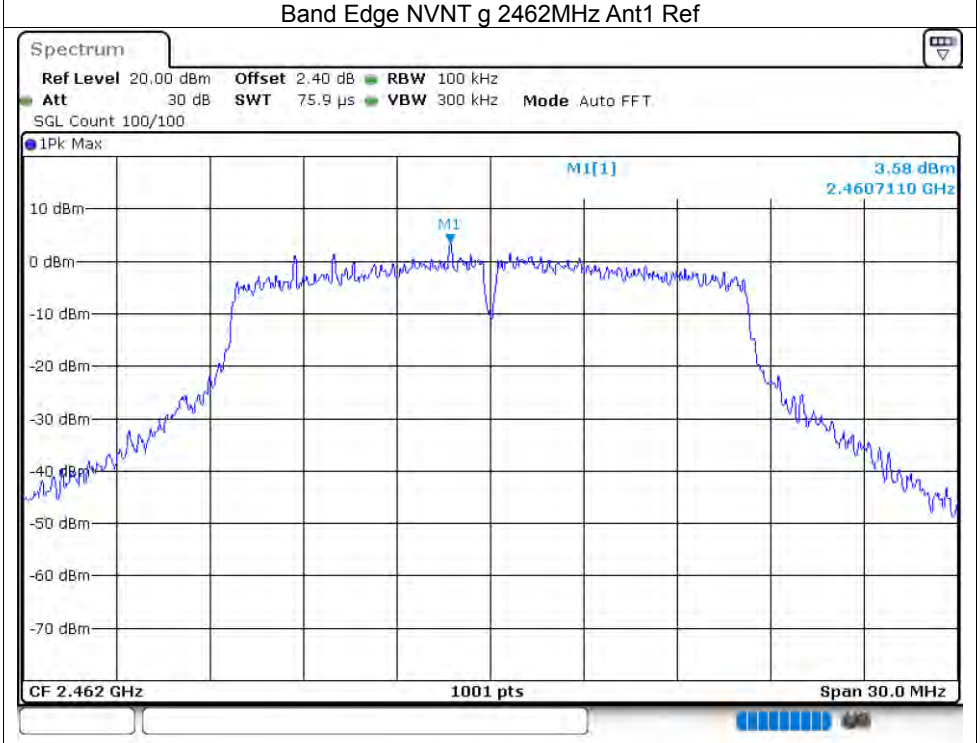
Band Edge NVNT g 2412MHz Ant1 Ref



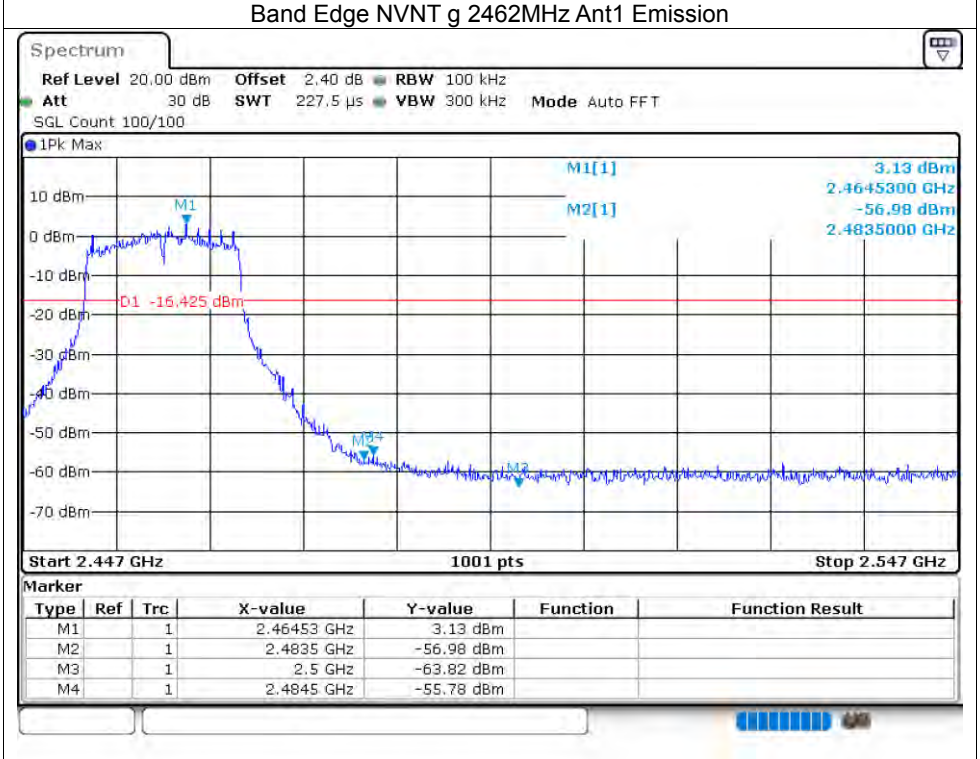
Band Edge NVNT g 2412MHz Ant1 Emission



Band Edge NVNT g 2462MHz Ant1 Ref



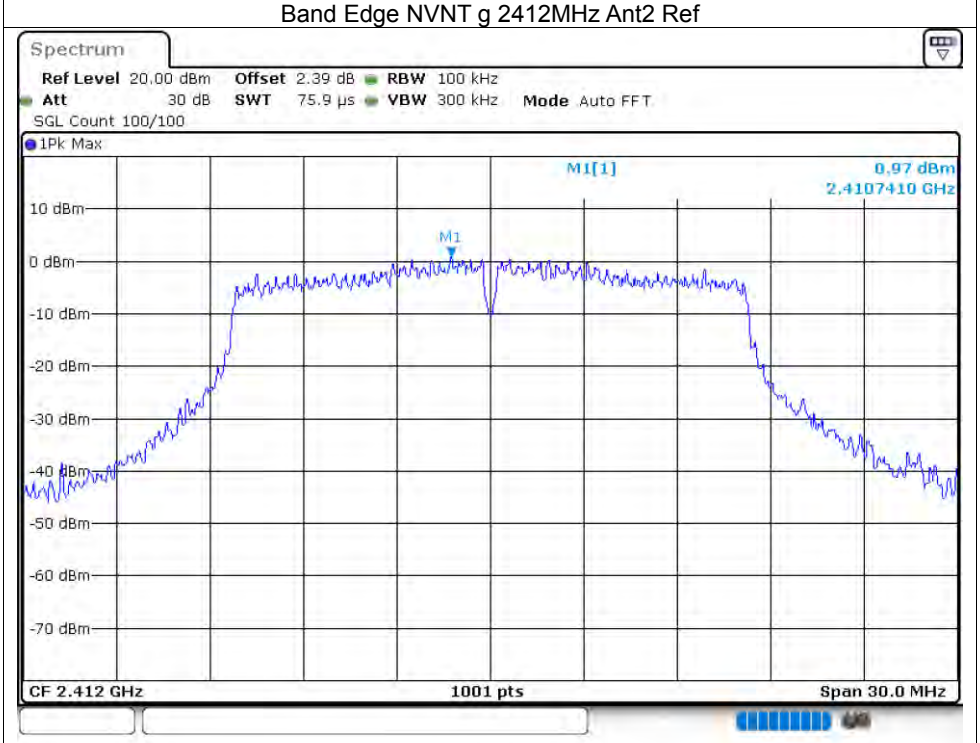
Band Edge NVNT g 2462MHz Ant1 Emission



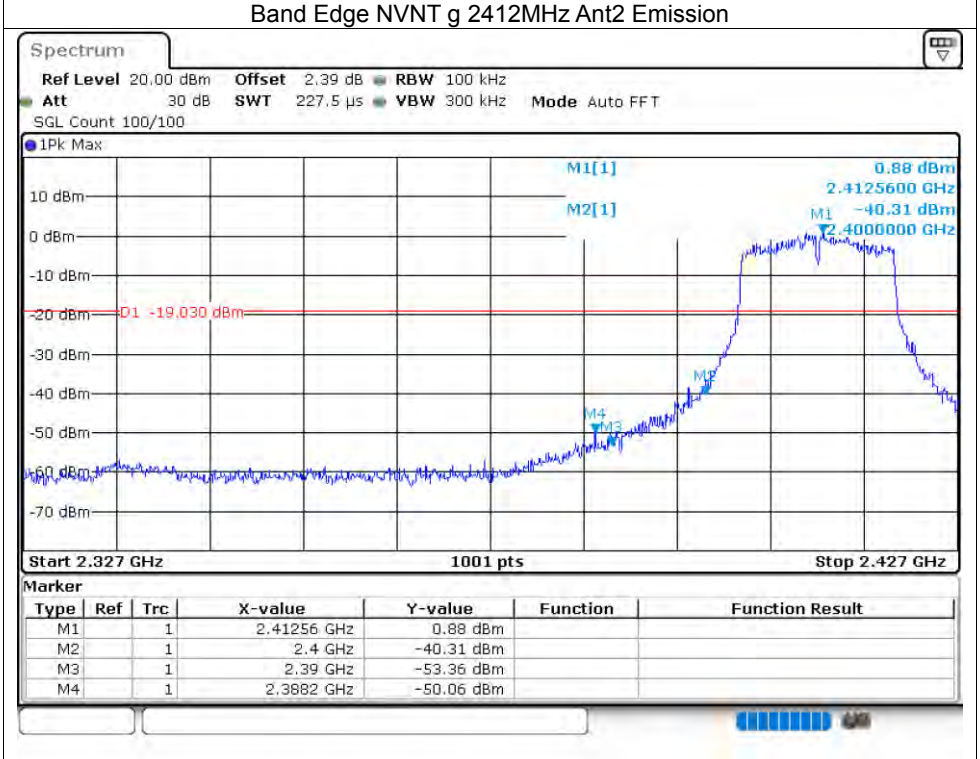
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46453 GHz	3.13 dBm		
M2		1	2.4835 GHz	-56.98 dBm		
M3		1	2.5 GHz	-63.82 dBm		
M4		1	2.4845 GHz	-55.78 dBm		

Band Edge NVNT g 2412MHz Ant2 Ref



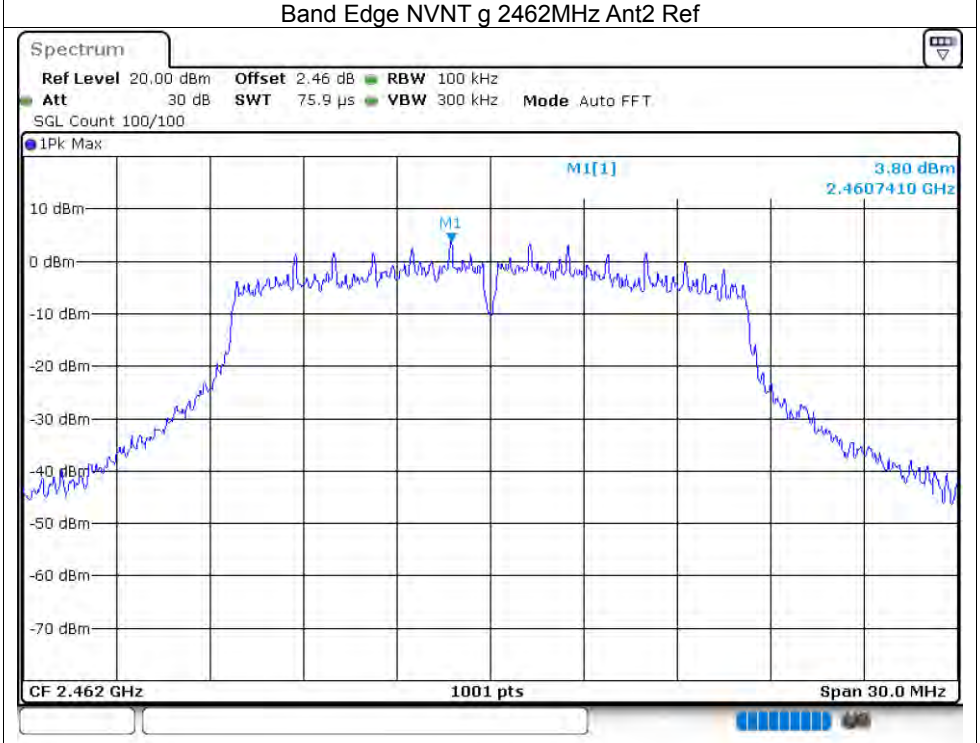
Band Edge NVNT g 2412MHz Ant2 Emission



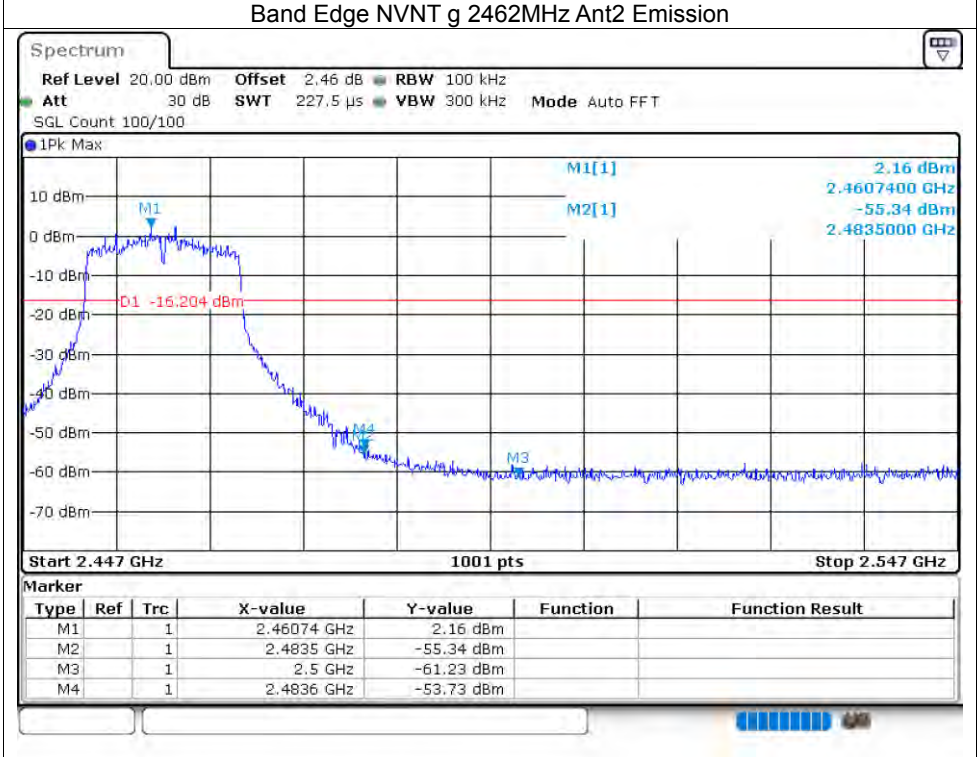
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41256 GHz	0.88 dBm		
M2		1	2.4 GHz	-40.31 dBm		
M3		1	2.39 GHz	-53.36 dBm		
M4		1	2.3882 GHz	-50.06 dBm		

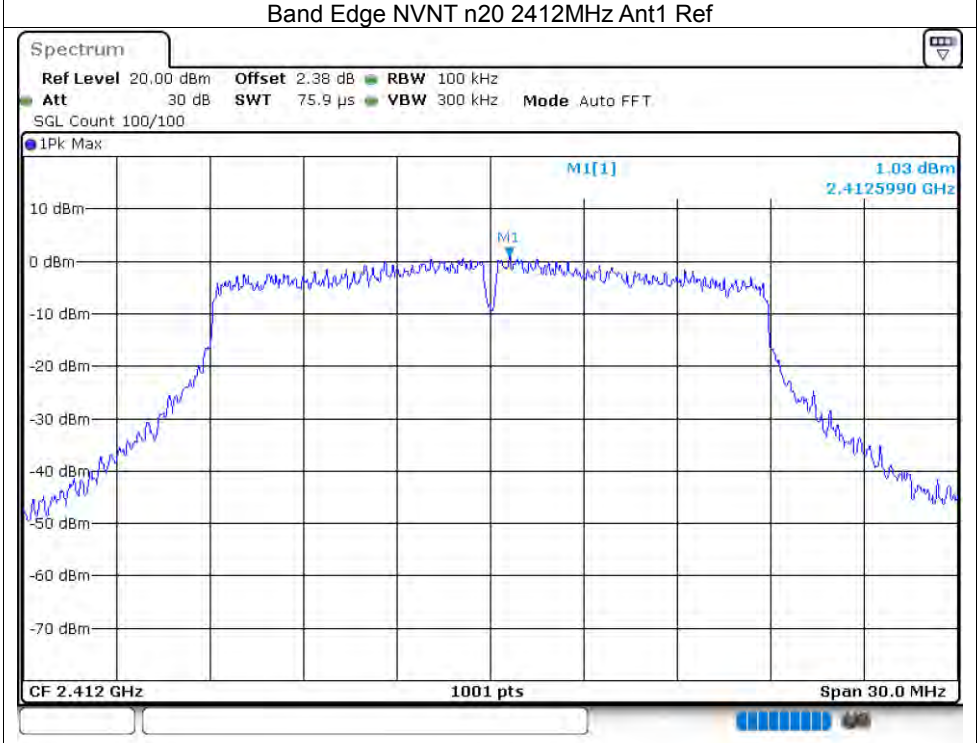
Band Edge NVNT g 2462MHz Ant2 Ref



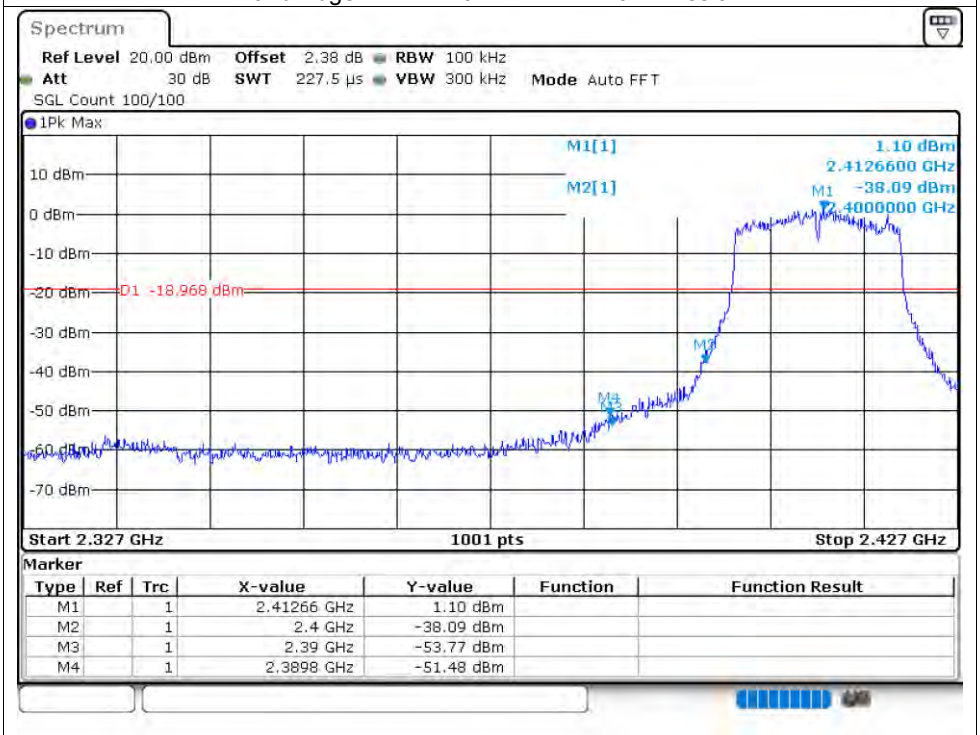
Band Edge NVNT g 2462MHz Ant2 Emission



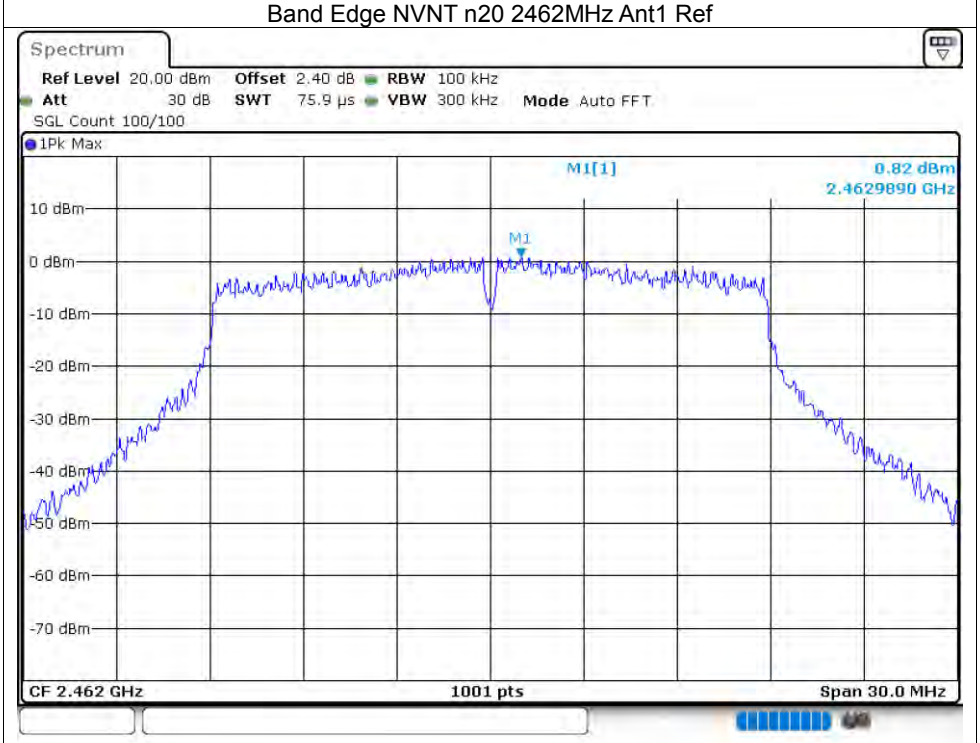
Band Edge NVNT n20 2412MHz Ant1 Ref



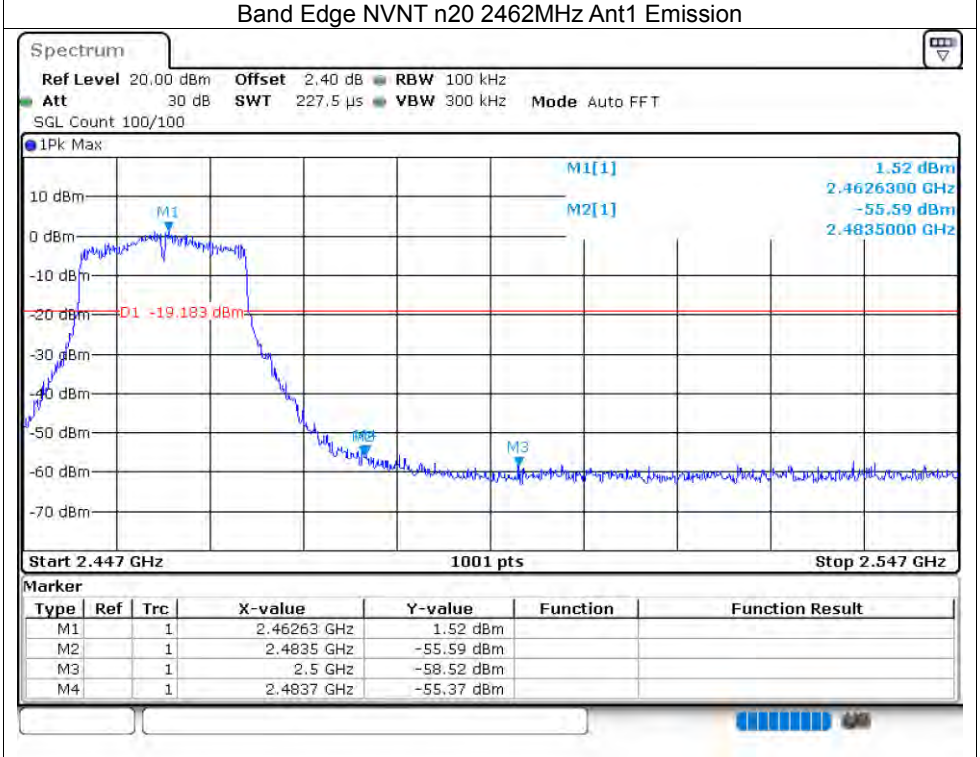
Band Edge NVNT n20 2412MHz Ant1 Emission



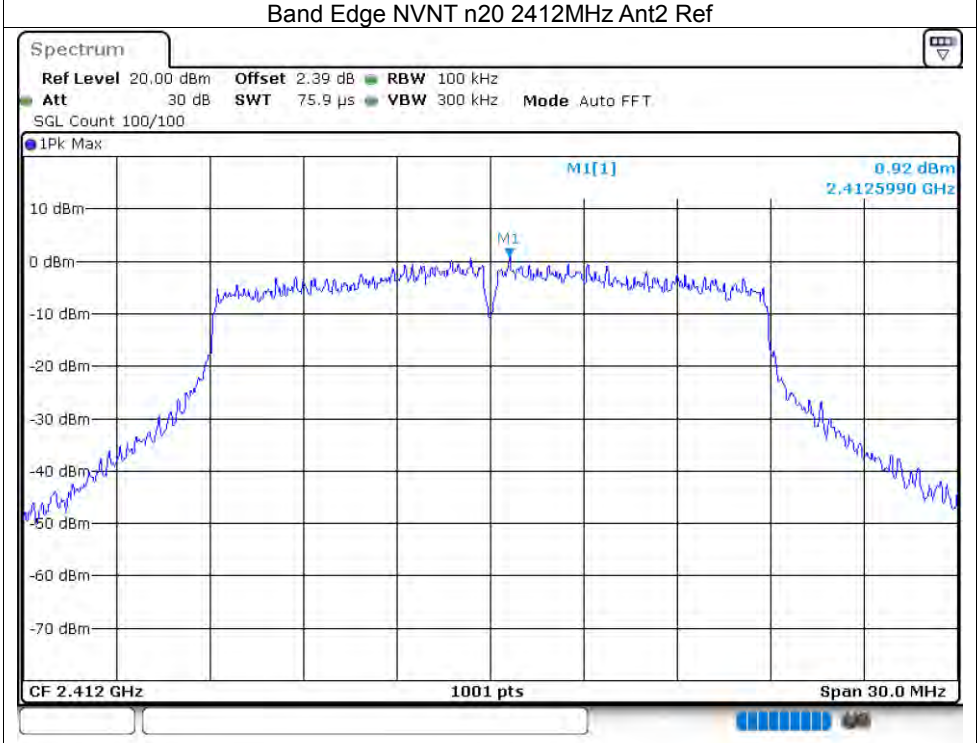
Band Edge NVNT n20 2462MHz Ant1 Ref



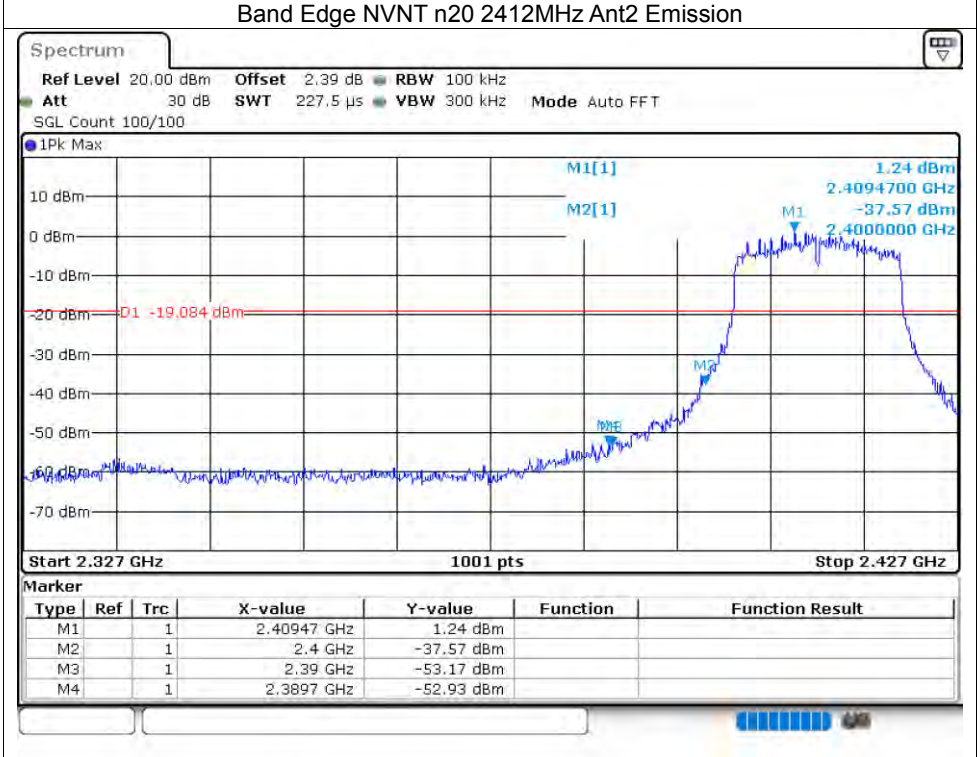
Band Edge NVNT n20 2462MHz Ant1 Emission



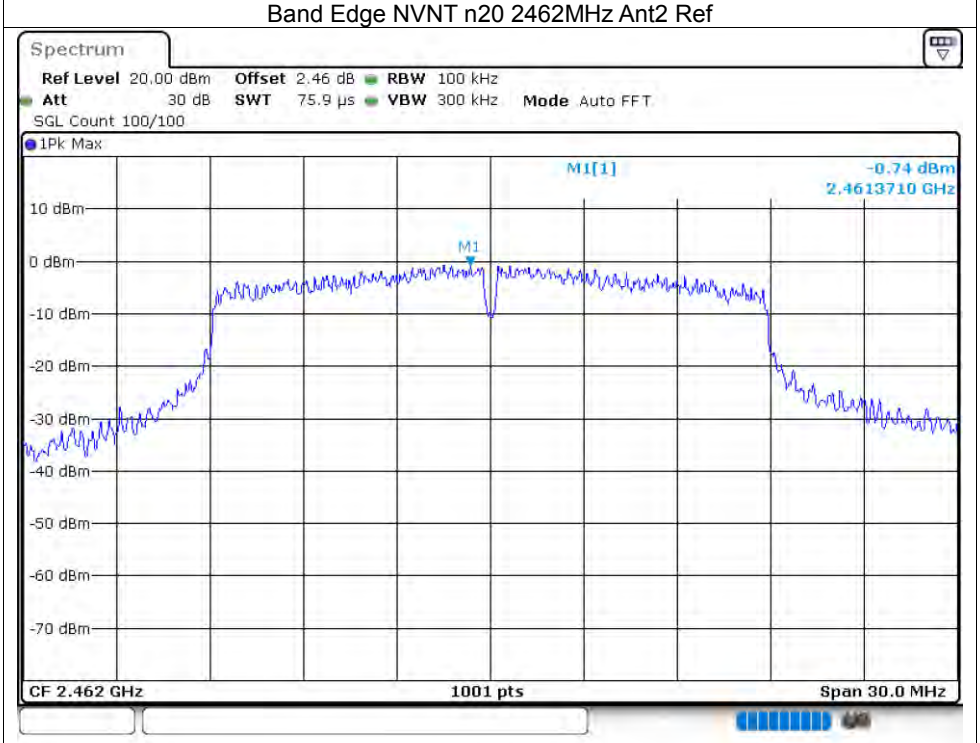
Band Edge NVNT n20 2412MHz Ant2 Ref



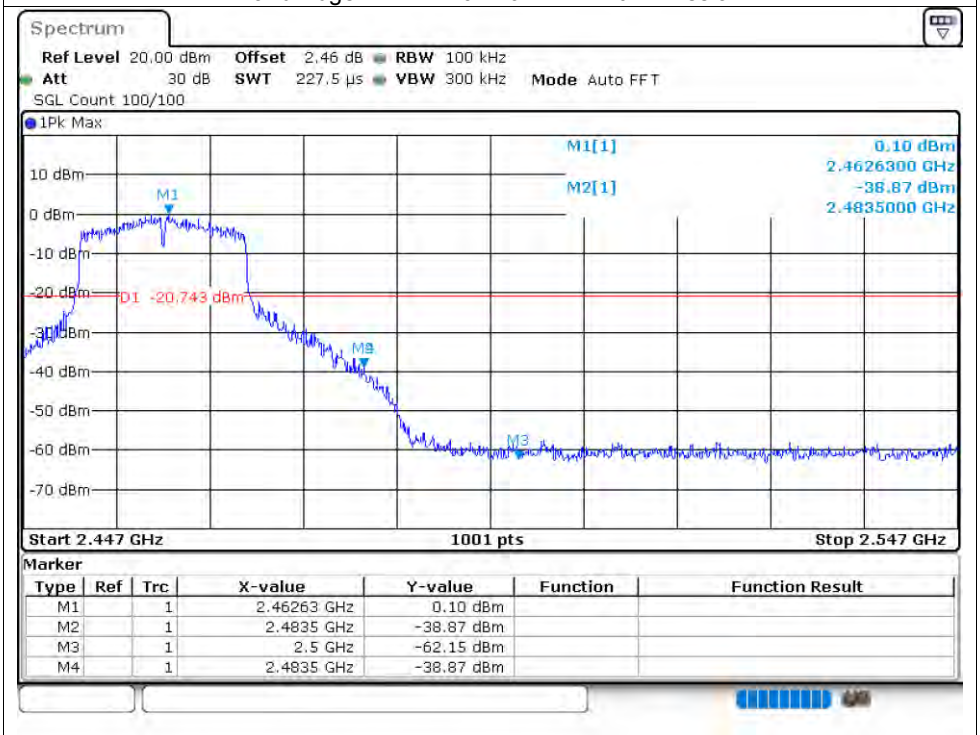
Band Edge NVNT n20 2412MHz Ant2 Emission



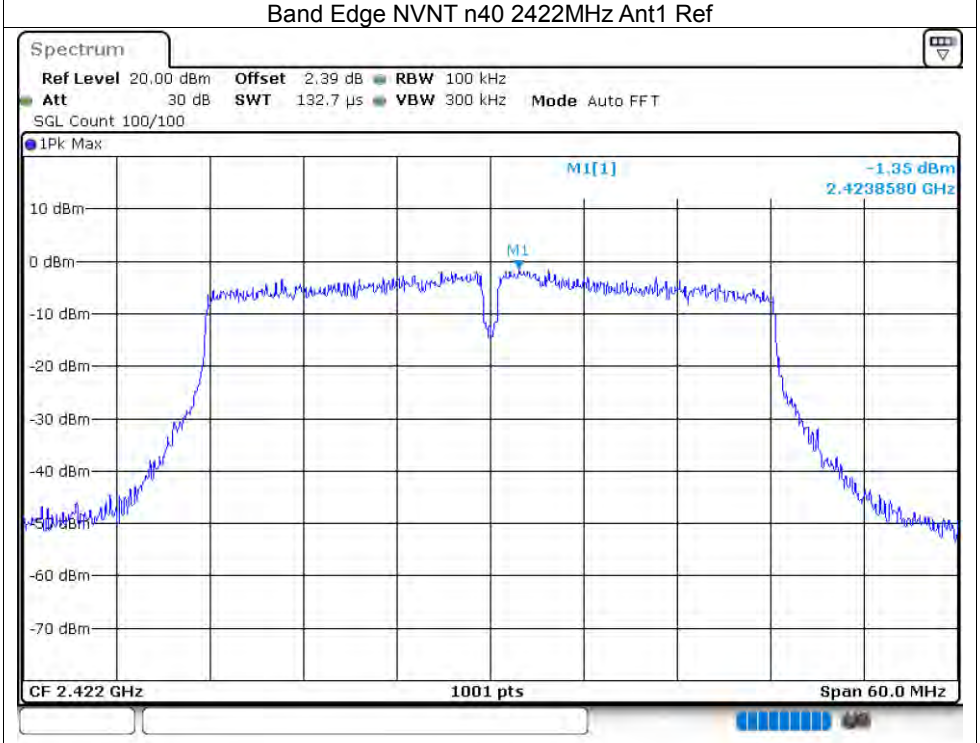
Band Edge NVNT n20 2462MHz Ant2 Ref



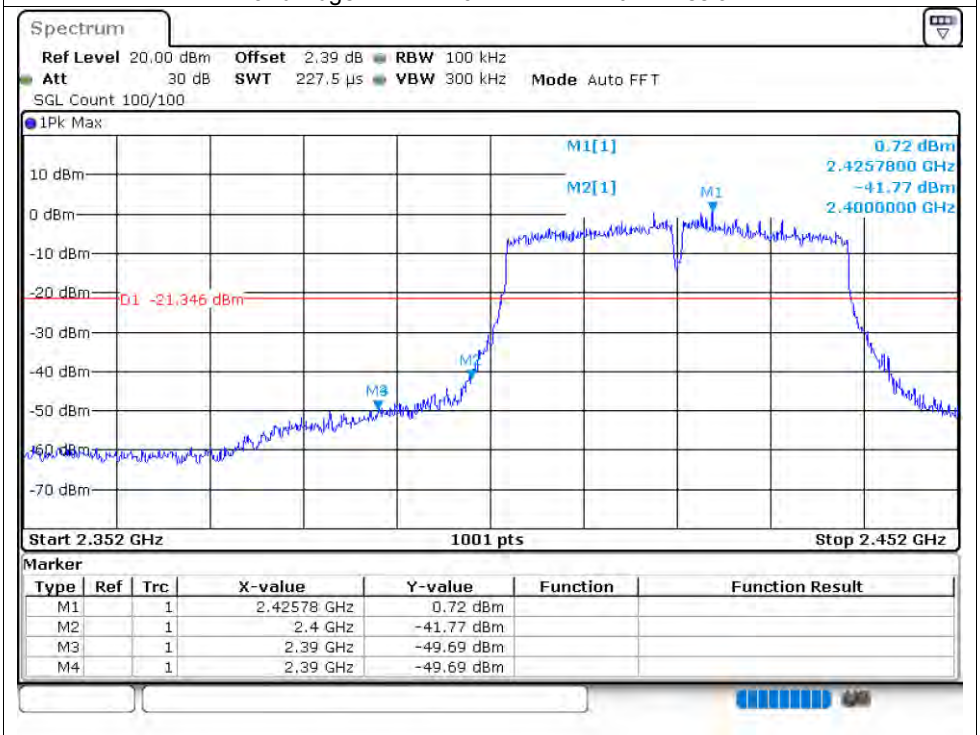
Band Edge NVNT n20 2462MHz Ant2 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref



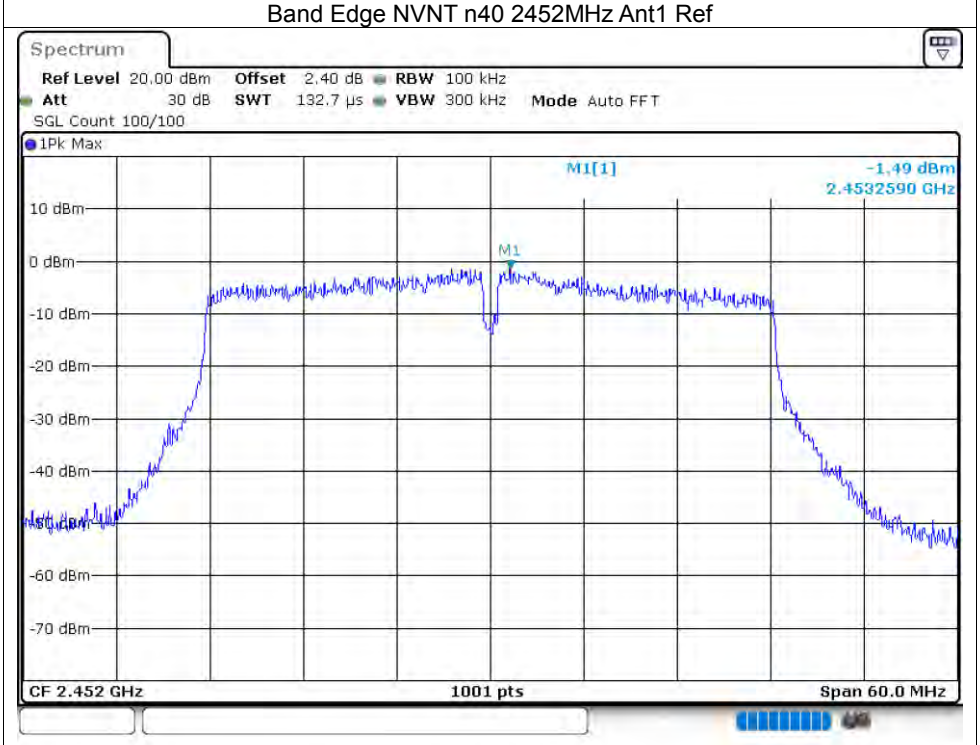
Band Edge NVNT n40 2422MHz Ant1 Emission



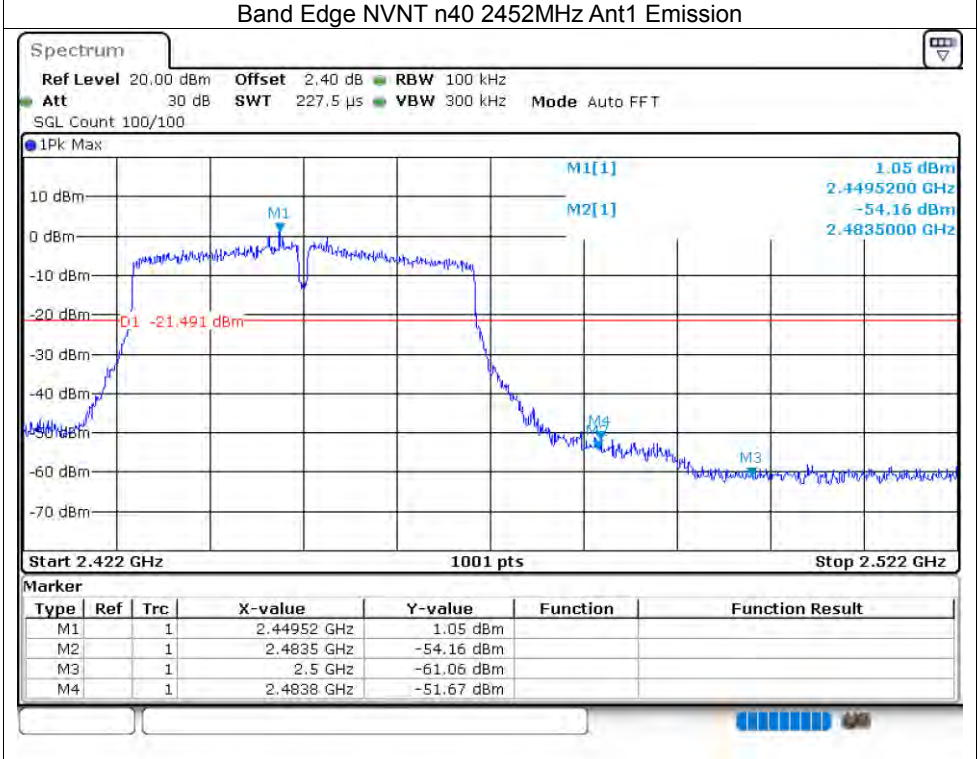
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42578 GHz	0.72 dBm		
M2		1	2.4 GHz	-41.77 dBm		
M3		1	2.39 GHz	-49.69 dBm		
M4		1	2.39 GHz	-49.69 dBm		

Band Edge NVNT n40 2452MHz Ant1 Ref

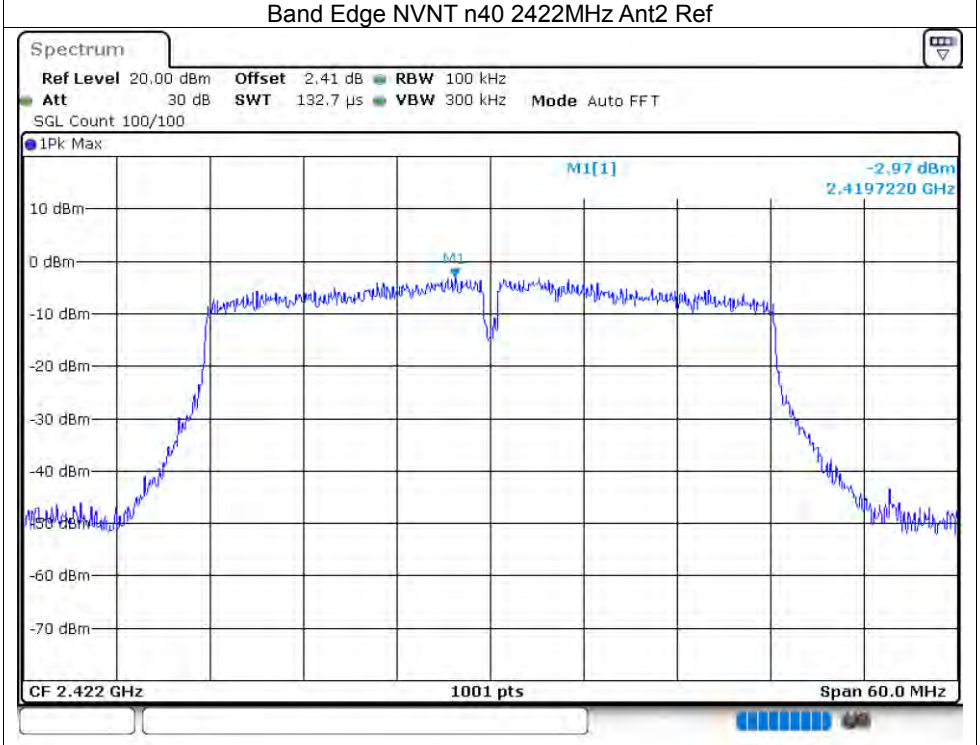


Band Edge NVNT n40 2452MHz Ant1 Emission

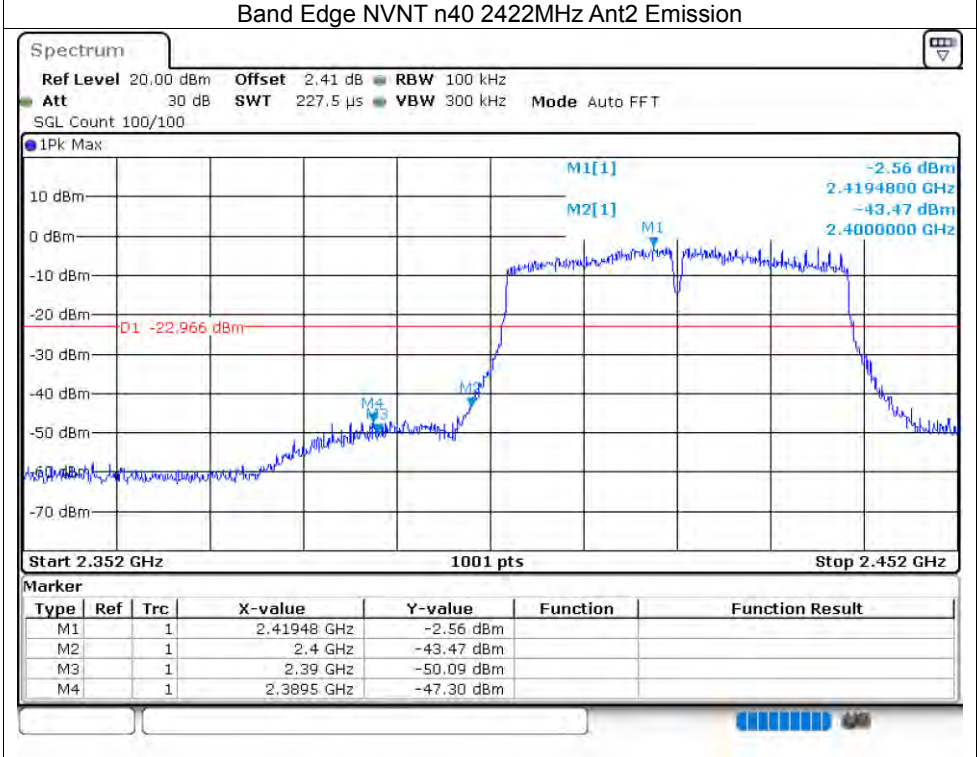


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44952 GHz	1.05 dBm		
M2		1	2.4835 GHz	-54.16 dBm		
M3		1	2.5 GHz	-61.06 dBm		
M4		1	2.4838 GHz	-51.67 dBm		

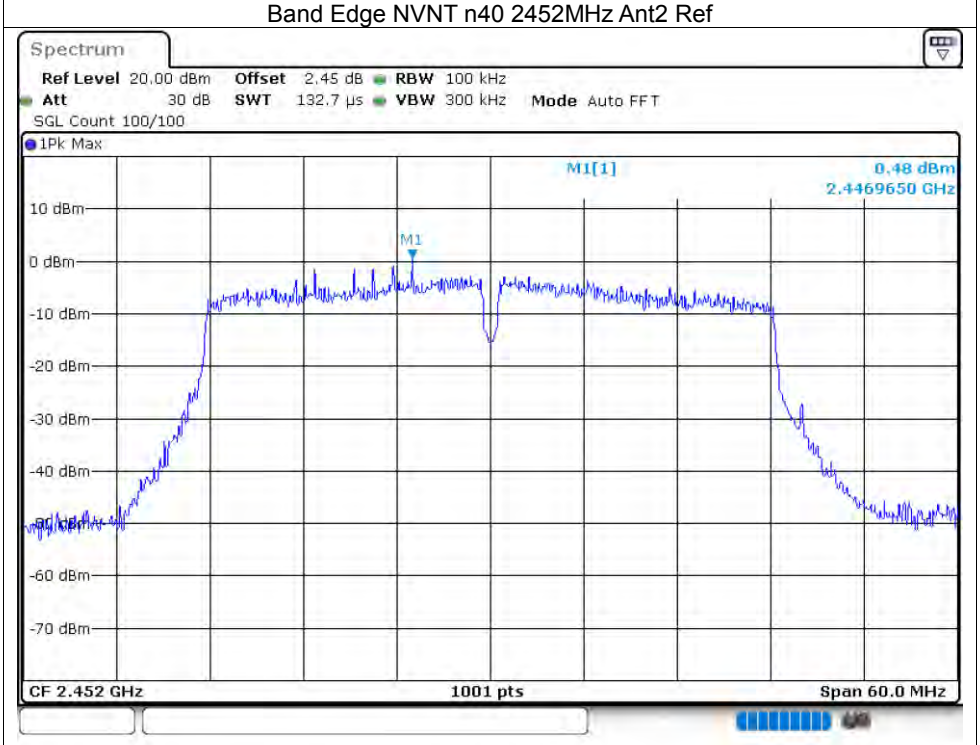
Band Edge NVNT n40 2422MHz Ant2 Ref



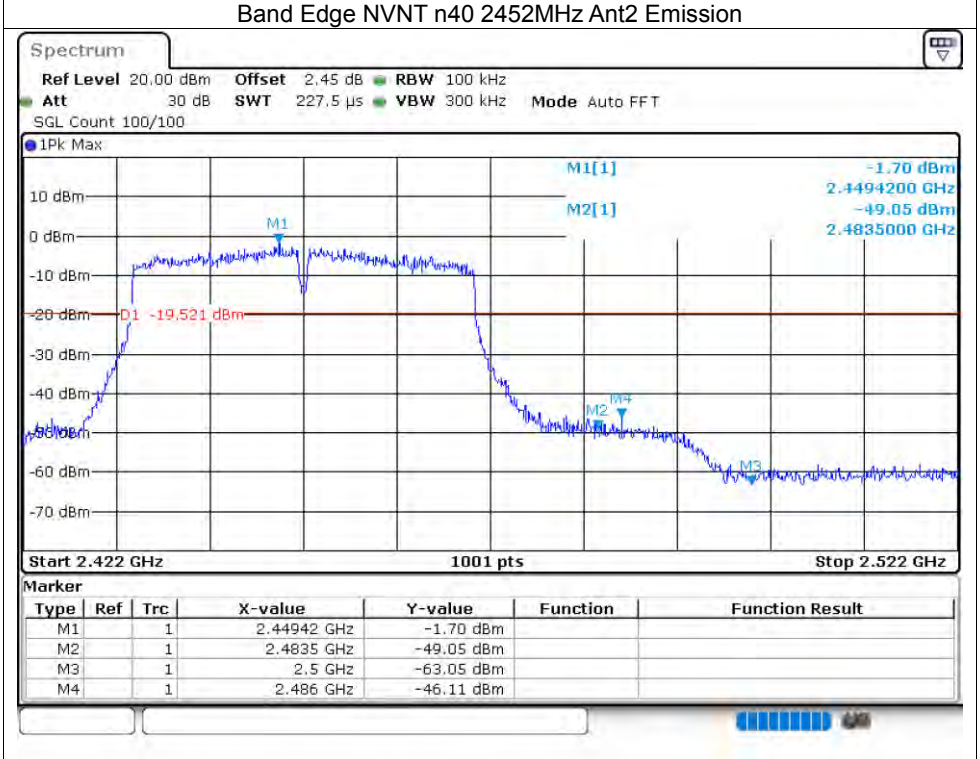
Band Edge NVNT n40 2422MHz Ant2 Emission



Band Edge NVNT n40 2452MHz Ant2 Ref



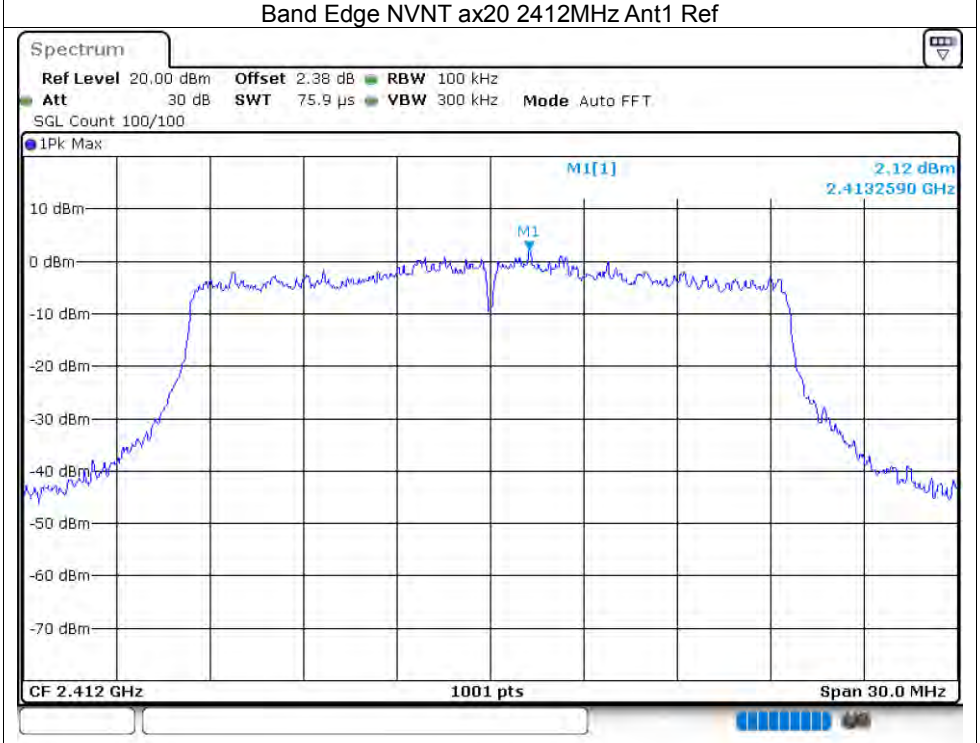
Band Edge NVNT n40 2452MHz Ant2 Emission



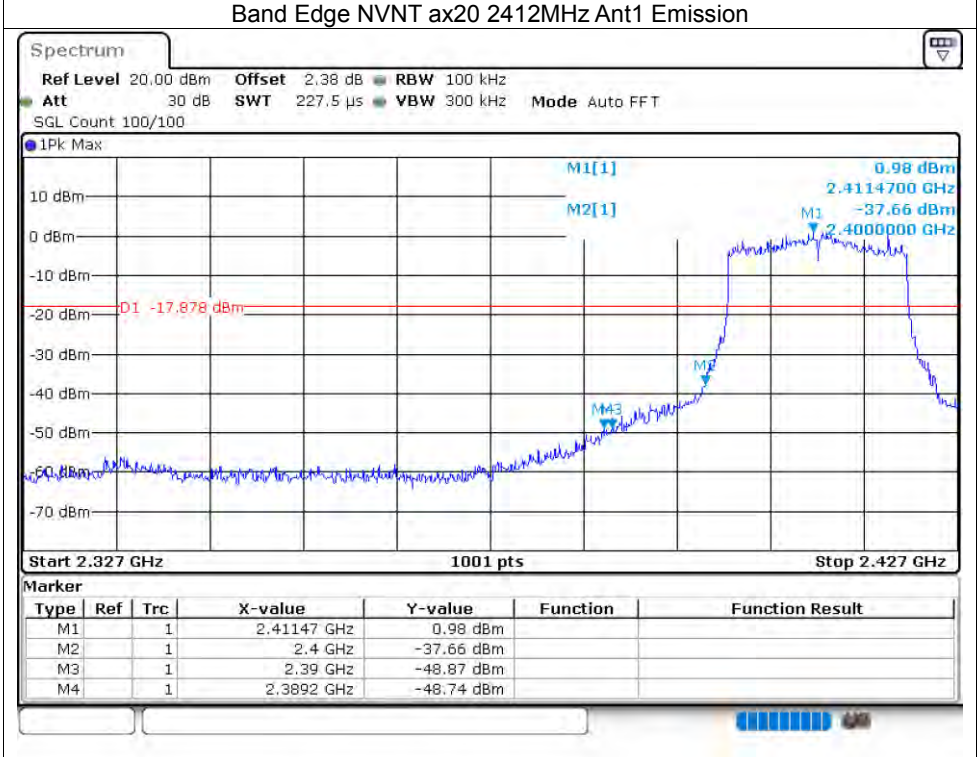
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44942 GHz	-1.70 dBm		
M2		1	2.4835 GHz	-49.05 dBm		
M3		1	2.5 GHz	-63.05 dBm		
M4		1	2.486 GHz	-46.11 dBm		

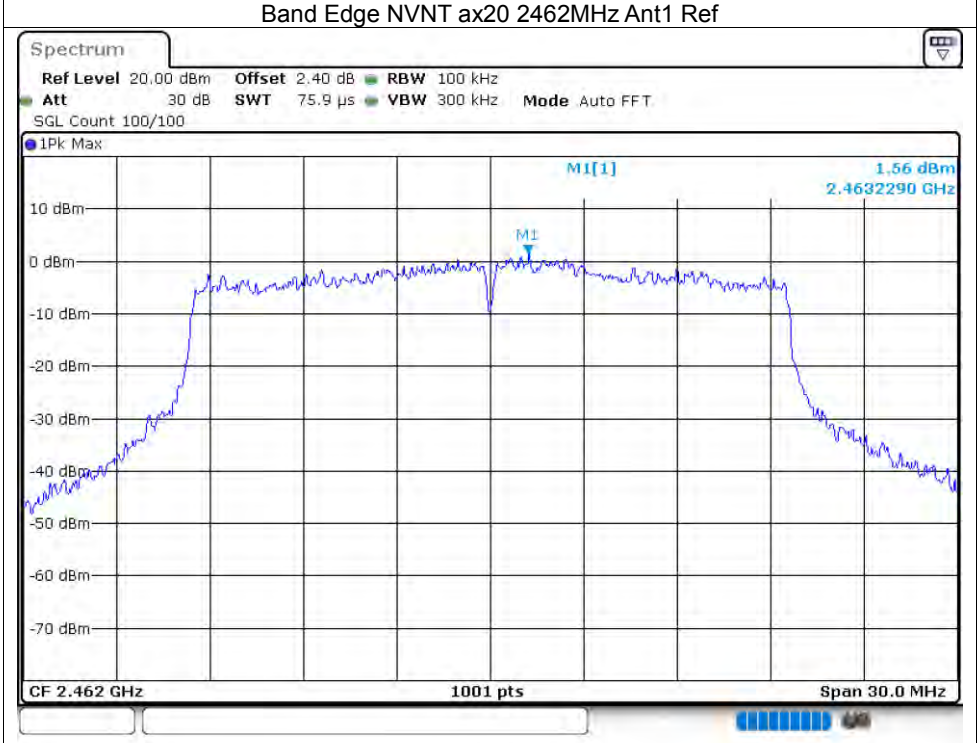
Band Edge NVNT ax20 2412MHz Ant1 Ref



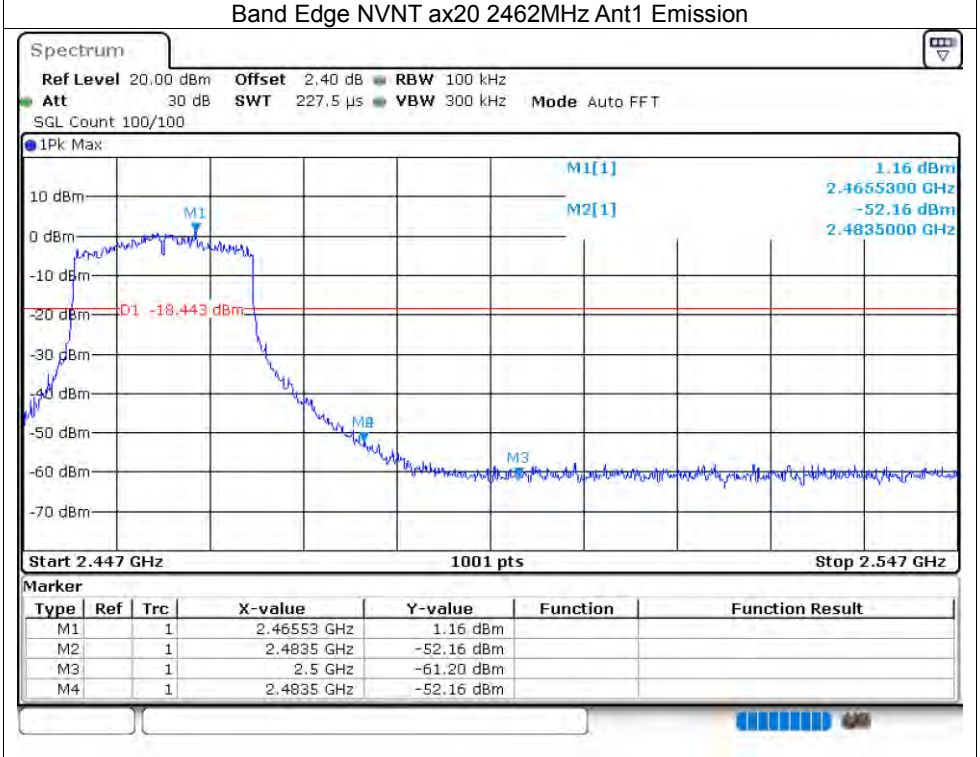
Band Edge NVNT ax20 2412MHz Ant1 Emission



Band Edge NVNT ax20 2462MHz Ant1 Ref

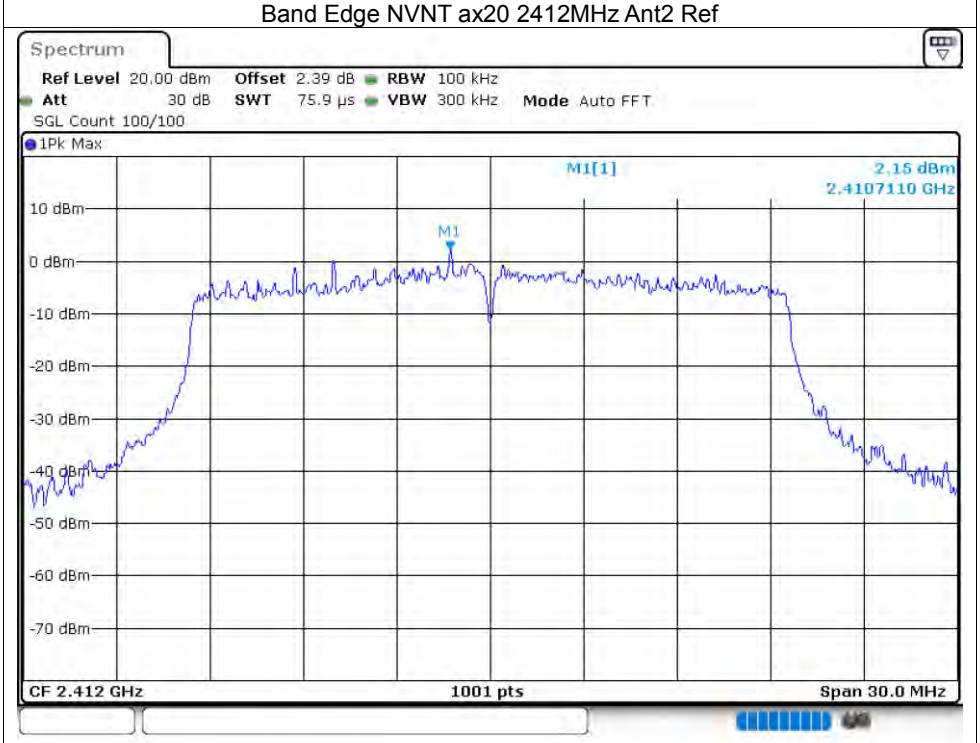


Band Edge NVNT ax20 2462MHz Ant1 Emission

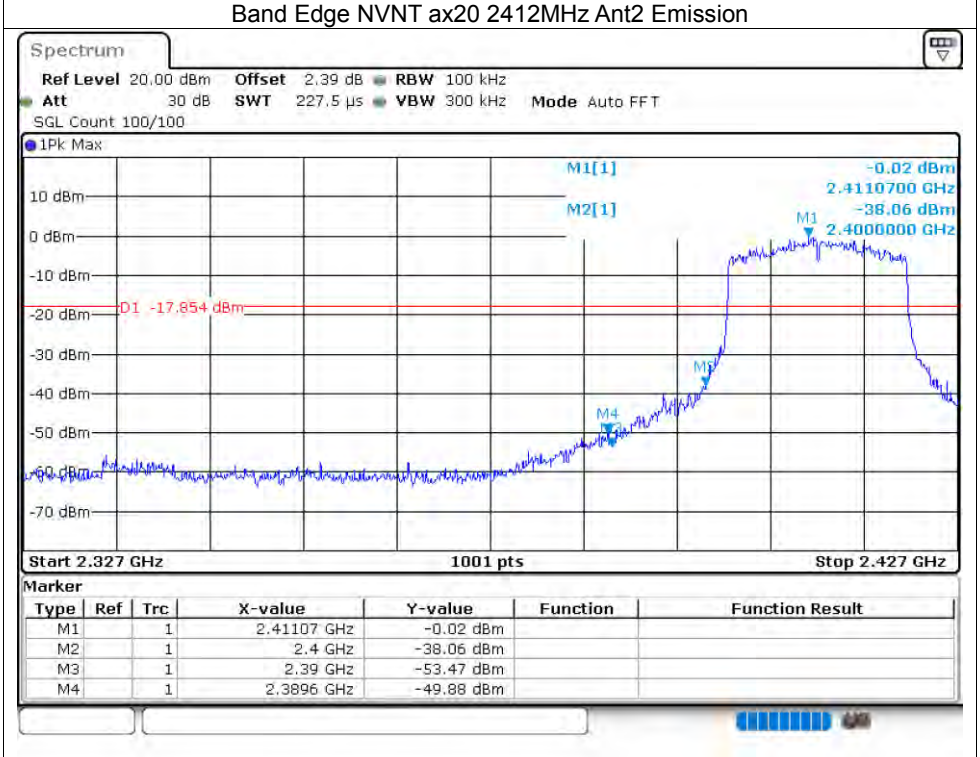


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46553 GHz	1.16 dBm		
M2		1	2.4835 GHz	-52.16 dBm		
M3		1	2.5 GHz	-61.20 dBm		
M4		1	2.4835 GHz	-52.16 dBm		

Band Edge NVNT ax20 2412MHz Ant2 Ref

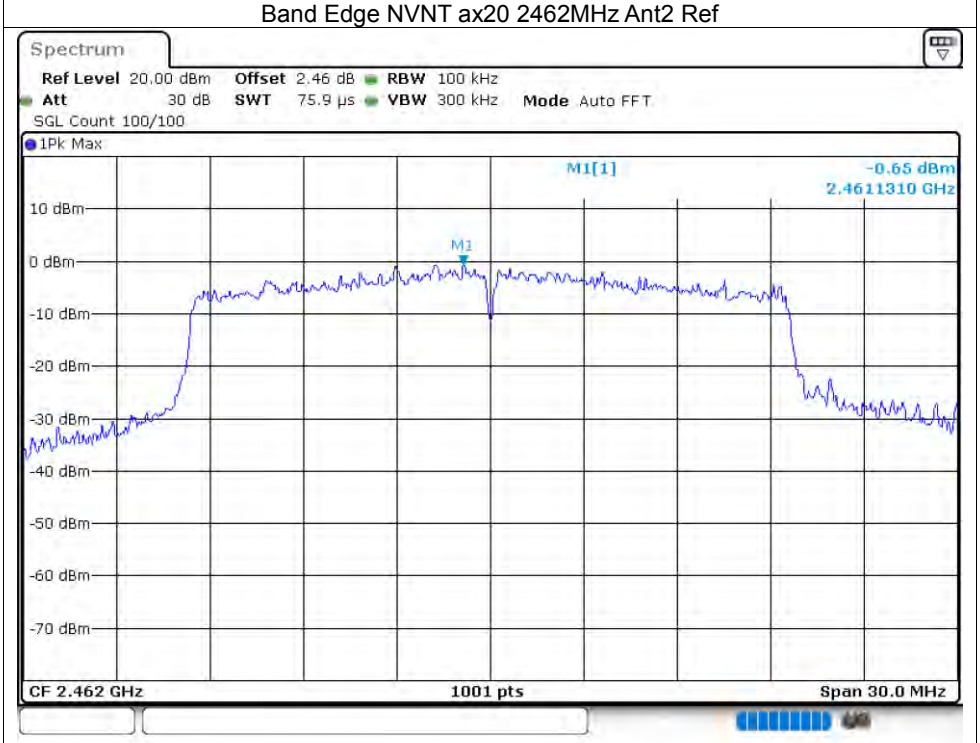


Band Edge NVNT ax20 2412MHz Ant2 Emission

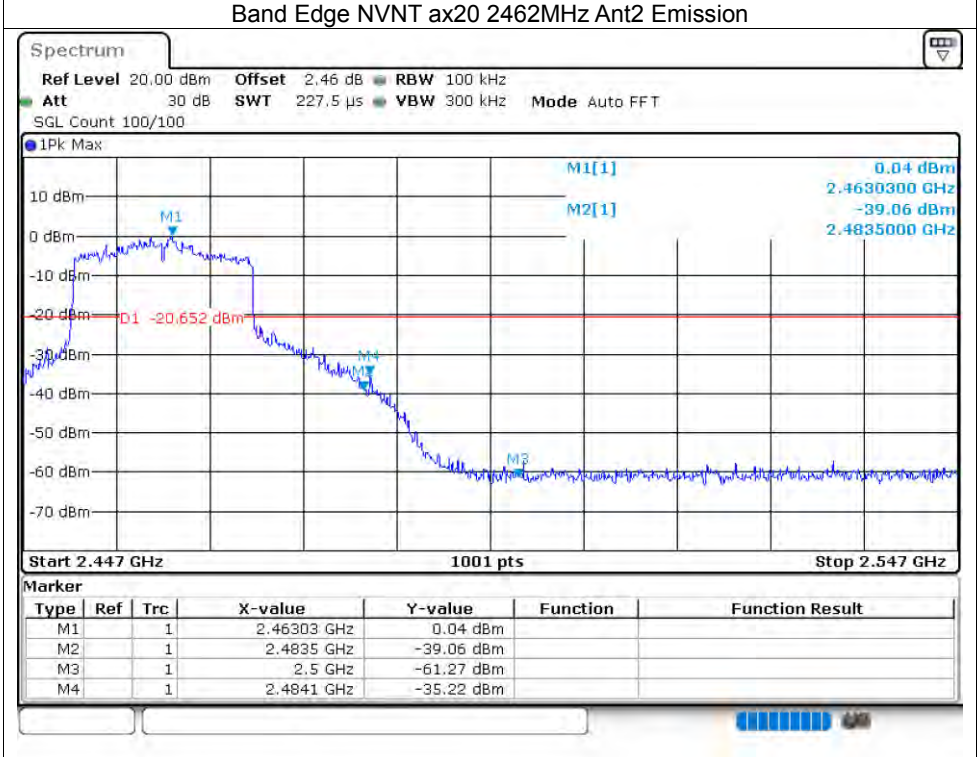


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41107 GHz	-0.02 dBm		
M2		1	2.4 GHz	-38.06 dBm		
M3		1	2.39 GHz	-53.47 dBm		
M4		1	2.3896 GHz	-49.88 dBm		

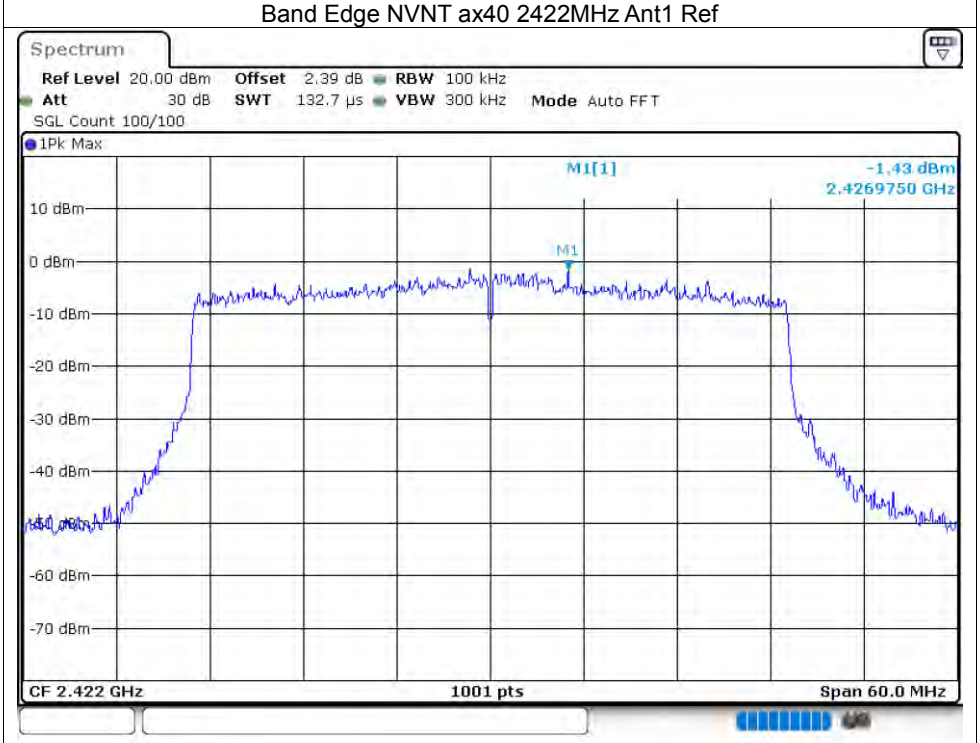
Band Edge NVNT ax20 2462MHz Ant2 Ref



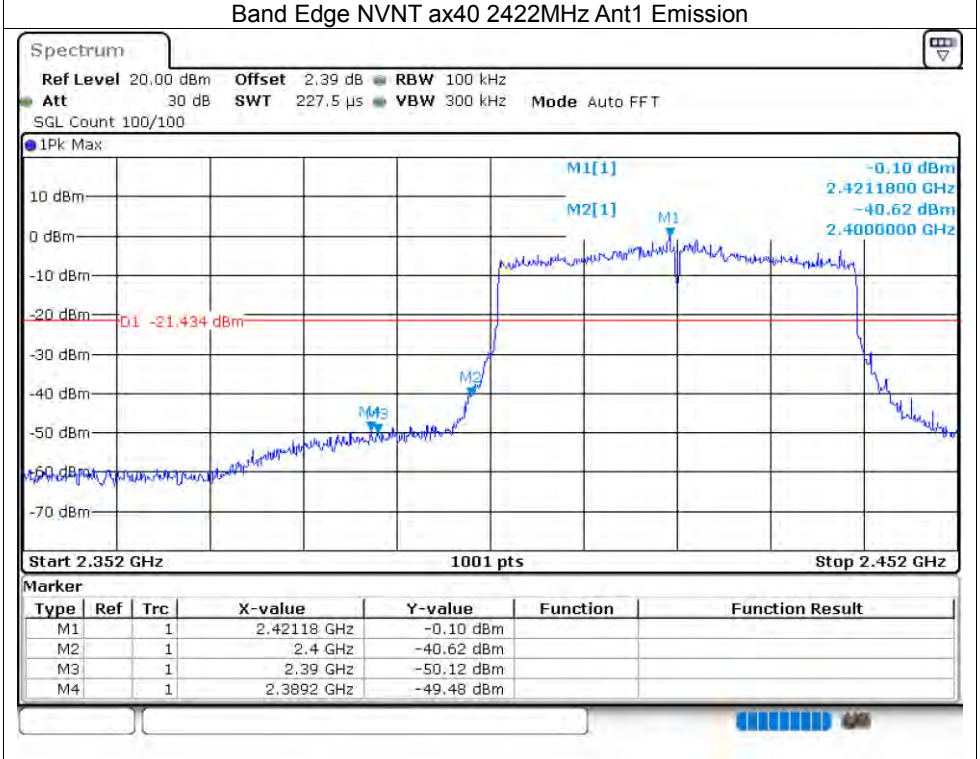
Band Edge NVNT ax20 2462MHz Ant2 Emission



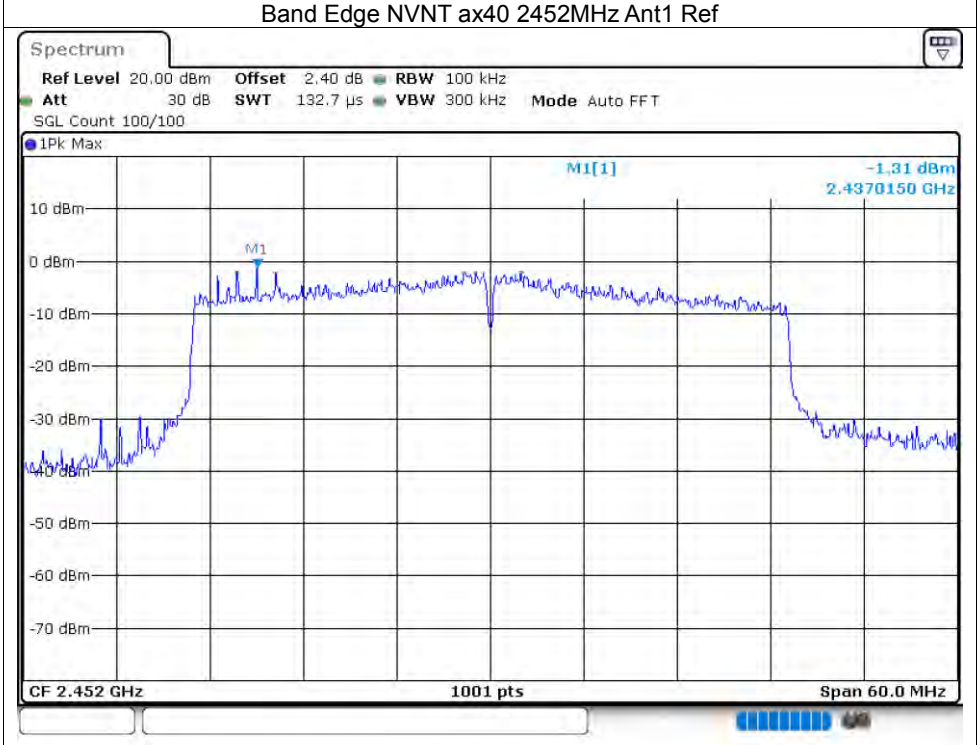
Band Edge NVNT ax40 2422MHz Ant1 Ref



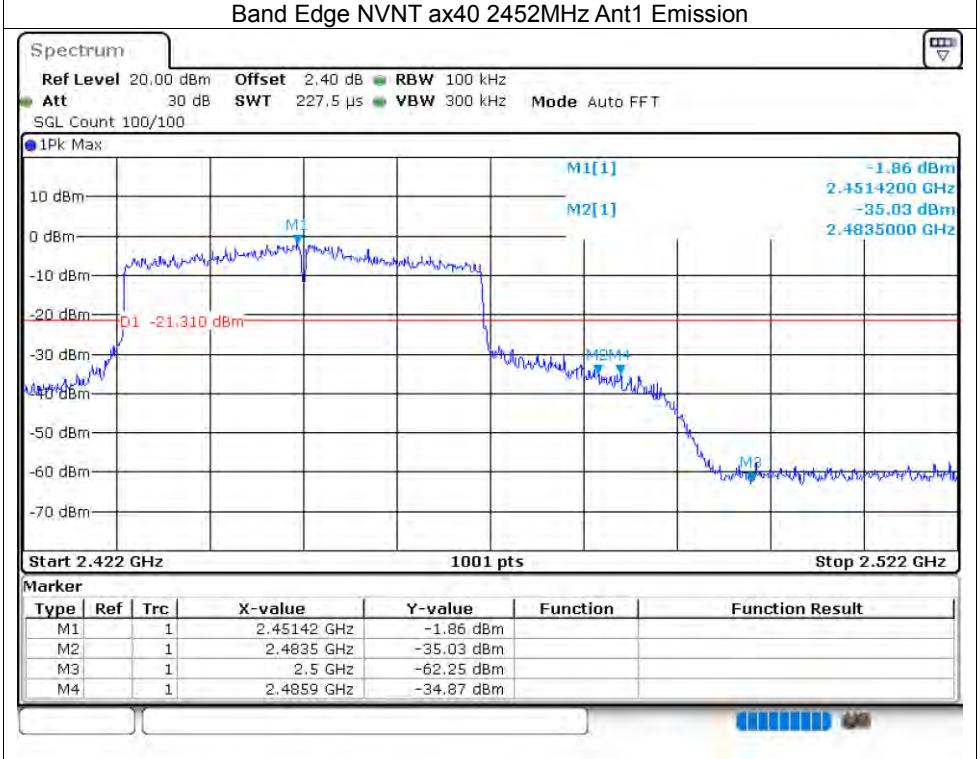
Band Edge NVNT ax40 2422MHz Ant1 Emission



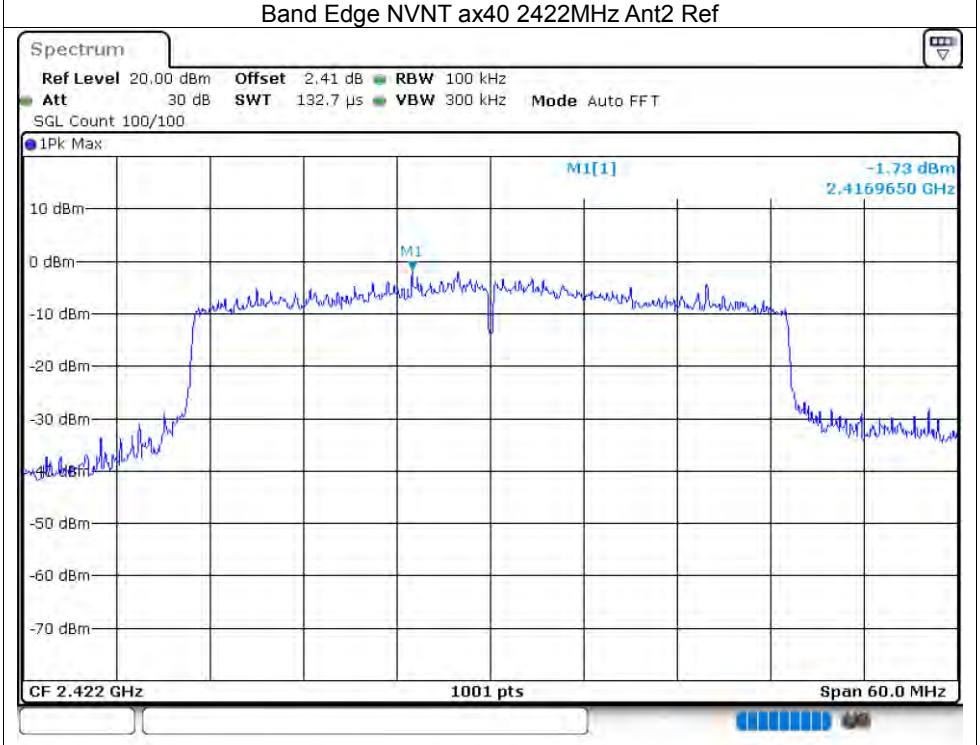
Band Edge NVNT ax40 2452MHz Ant1 Ref



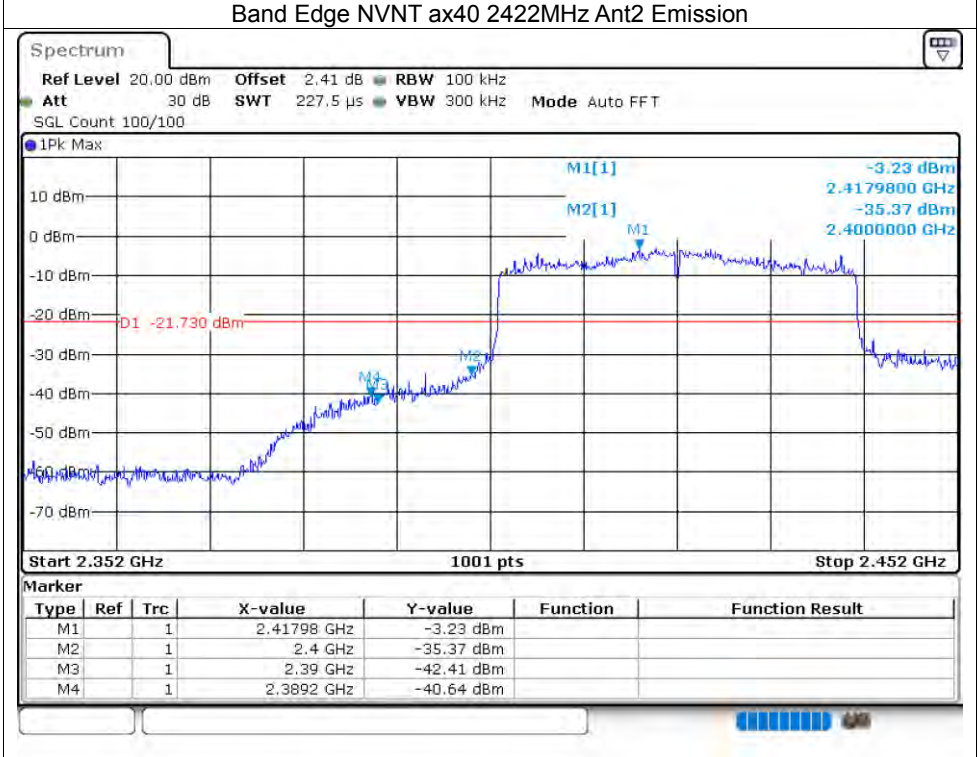
Band Edge NVNT ax40 2452MHz Ant1 Emission



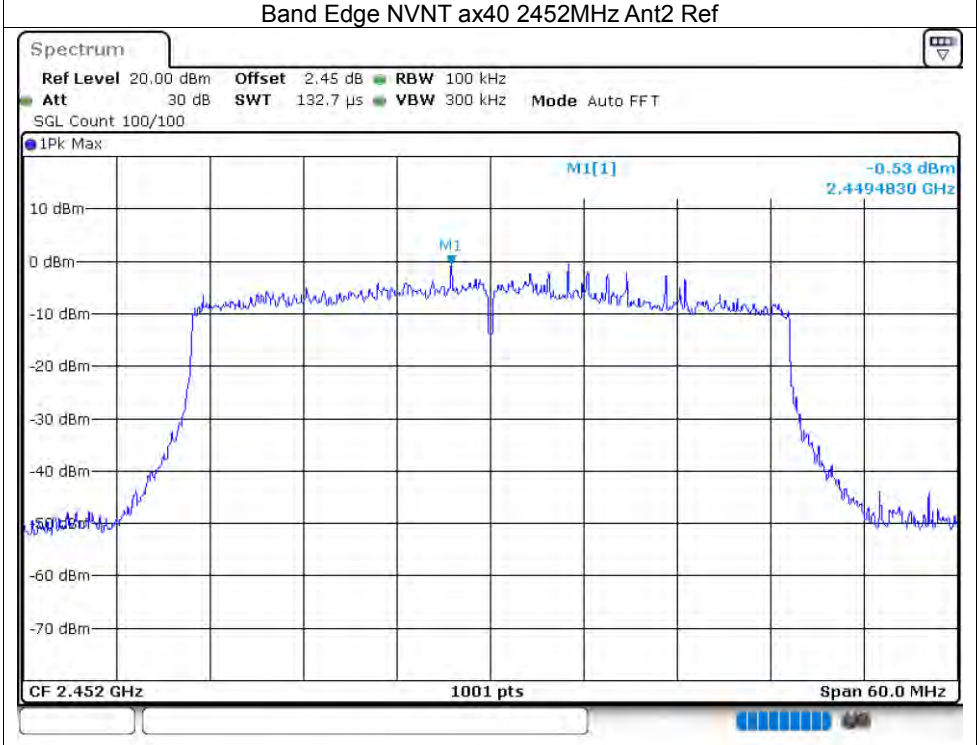
Band Edge NVNT ax40 2422MHz Ant2 Ref



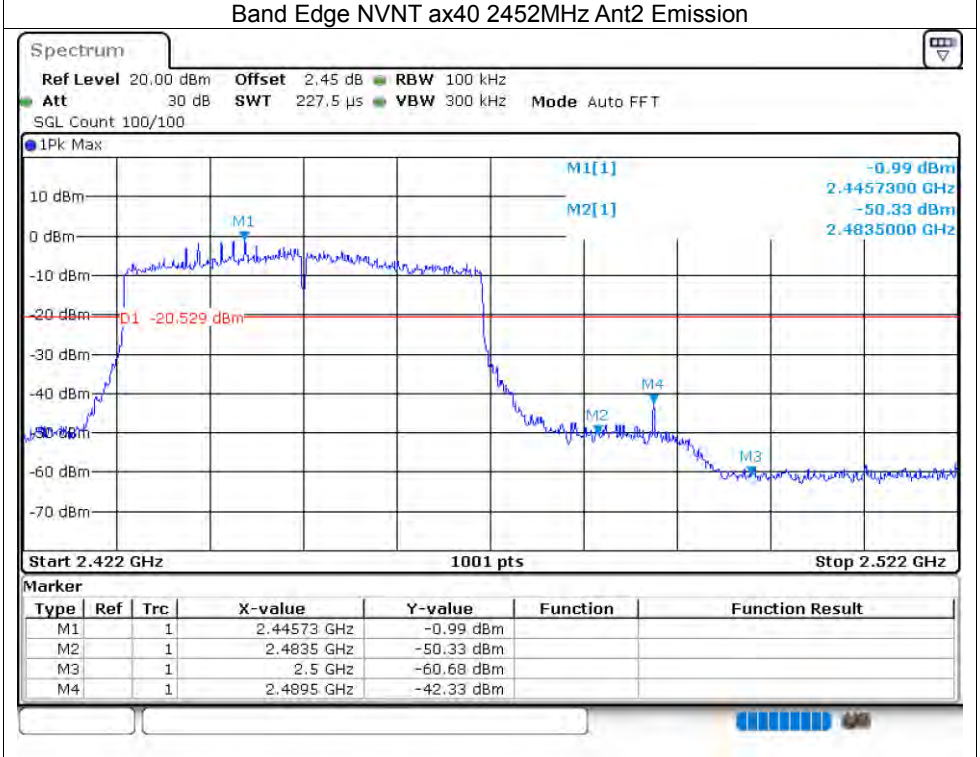
Band Edge NVNT ax40 2422MHz Ant2 Emission



Band Edge NVNT ax40 2452MHz Ant2 Ref



Band Edge NVNT ax40 2452MHz Ant2 Emission

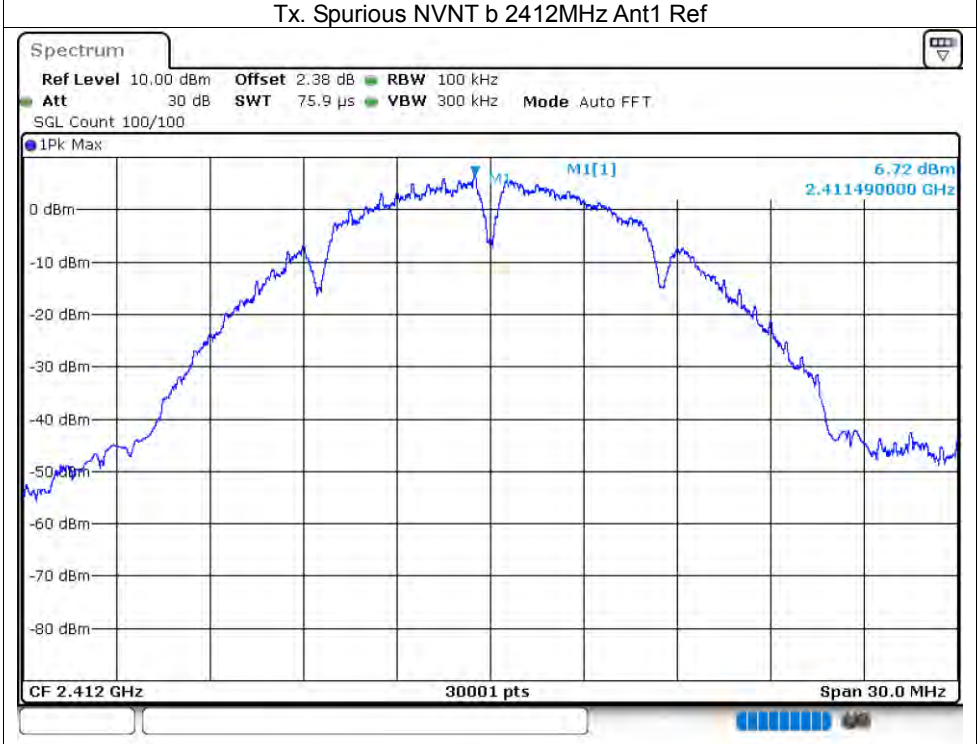


8.1.7 **Conducted RF Spurious Emission**

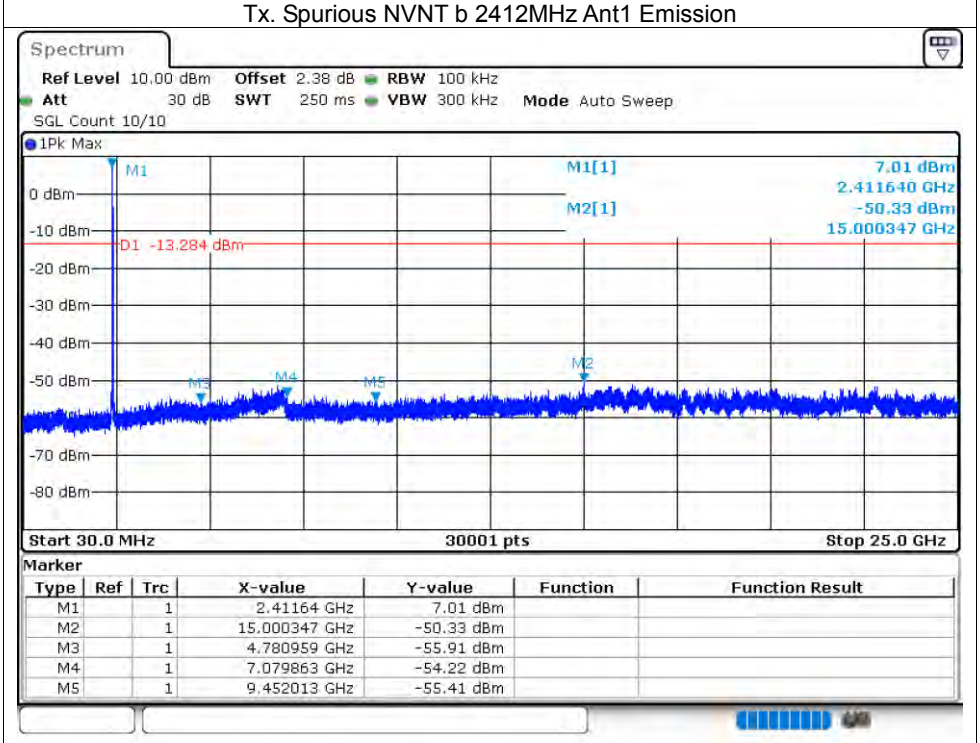
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-57.05	-20	Pass
NVNT	b	2437	Ant1	-58.18	-20	Pass
NVNT	b	2462	Ant1	-56.17	-20	Pass
NVNT	b	2412	Ant2	-55.35	-20	Pass
NVNT	b	2437	Ant2	-58.07	-20	Pass
NVNT	b	2462	Ant2	-56.28	-20	Pass
NVNT	g	2412	Ant1	-52.3	-20	Pass
NVNT	g	2437	Ant1	-56.19	-20	Pass
NVNT	g	2462	Ant1	-53.25	-20	Pass
NVNT	g	2412	Ant2	-54.29	-20	Pass
NVNT	g	2437	Ant2	-51.77	-20	Pass
NVNT	g	2462	Ant2	-53.5	-20	Pass
NVNT	n20	2412	Ant1	-52.31	-20	Pass
NVNT	n20	2437	Ant1	-51.75	-20	Pass
NVNT	n20	2462	Ant1	-52.54	-20	Pass
NVNT	n20	2412	Ant2	-53.07	-20	Pass
NVNT	n20	2437	Ant2	-54.37	-20	Pass
NVNT	n20	2462	Ant2	-53.74	-20	Pass
NVNT	n40	2422	Ant1	-48.87	-20	Pass
NVNT	n40	2437	Ant1	-52.07	-20	Pass
NVNT	n40	2452	Ant1	-51.06	-20	Pass
NVNT	n40	2422	Ant2	-47.69	-20	Pass
NVNT	n40	2437	Ant2	-50.57	-20	Pass
NVNT	n40	2452	Ant2	-48.65	-20	Pass
NVNT	ax20	2412	Ant1	-52.4	-20	Pass
NVNT	ax20	2437	Ant1	-54.36	-20	Pass
NVNT	ax20	2462	Ant1	-52.1	-20	Pass
NVNT	ax20	2412	Ant2	-52.57	-20	Pass
NVNT	ax20	2437	Ant2	-54.02	-20	Pass
NVNT	ax20	2462	Ant2	-51.26	-20	Pass
NVNT	ax40	2422	Ant1	-50.1	-20	Pass
NVNT	ax40	2437	Ant1	-51.33	-20	Pass
NVNT	ax40	2452	Ant1	-50	-20	Pass
NVNT	ax40	2422	Ant2	-49.41	-20	Pass
NVNT	ax40	2437	Ant2	-48.29	-20	Pass
NVNT	ax40	2452	Ant2	-48.7	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



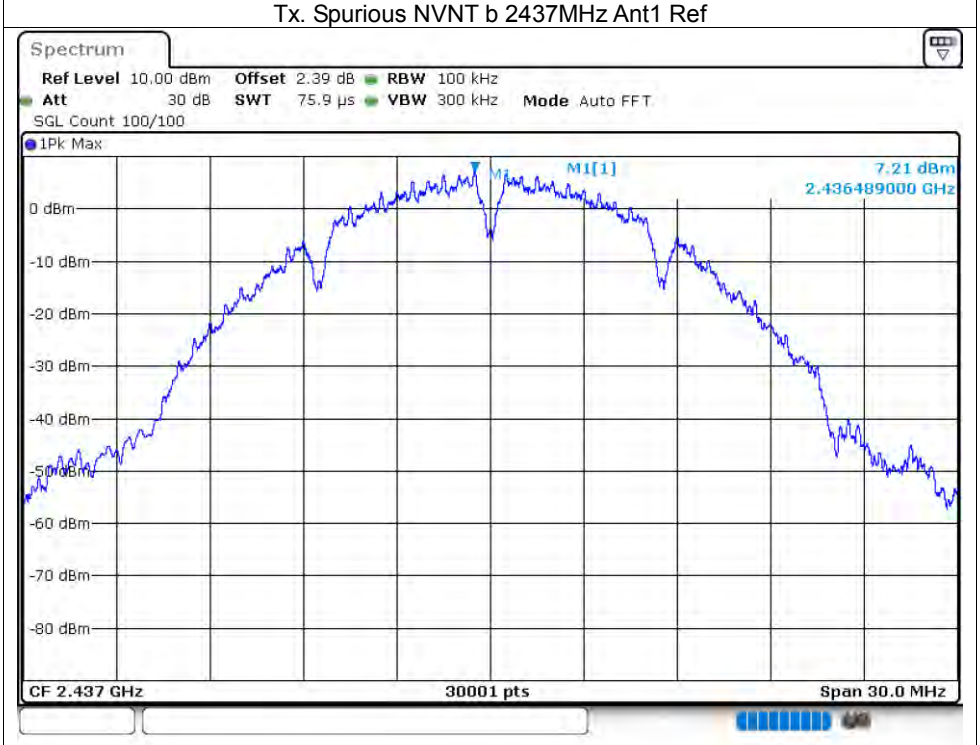
Tx. Spurious NVNT b 2412MHz Ant1 Emission



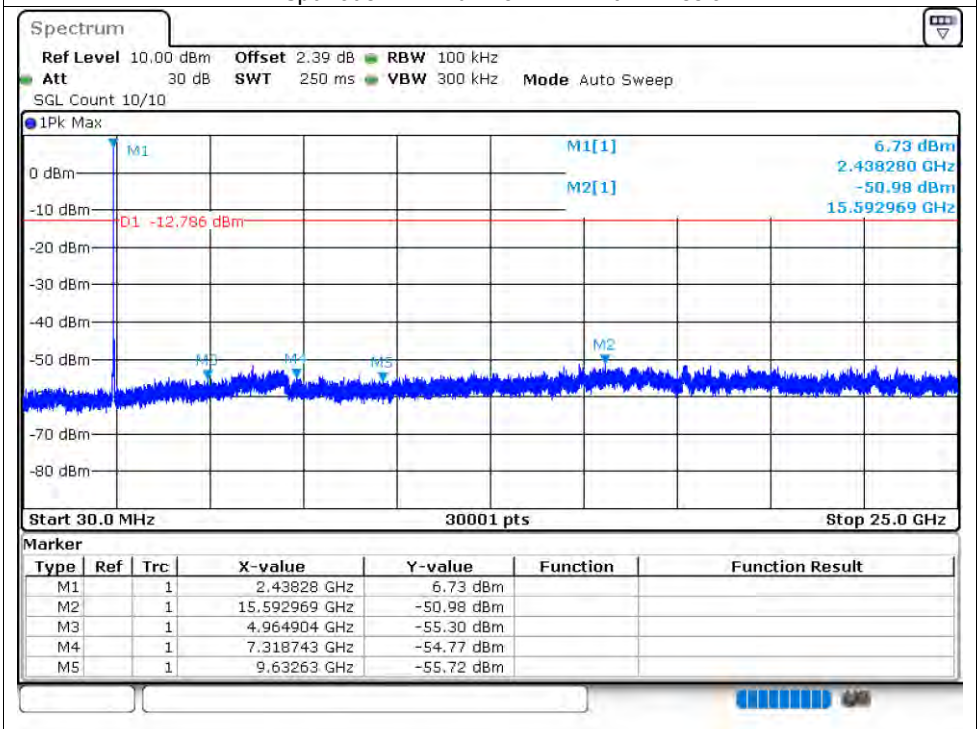
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41164 GHz	7.01 dBm		
M2		1	15.000347 GHz	-50.33 dBm		
M3		1	4.780959 GHz	-55.91 dBm		
M4		1	7.079863 GHz	-54.22 dBm		
M5		1	9.452013 GHz	-55.41 dBm		

Tx. Spurious NVNT b 2437MHz Ant1 Ref



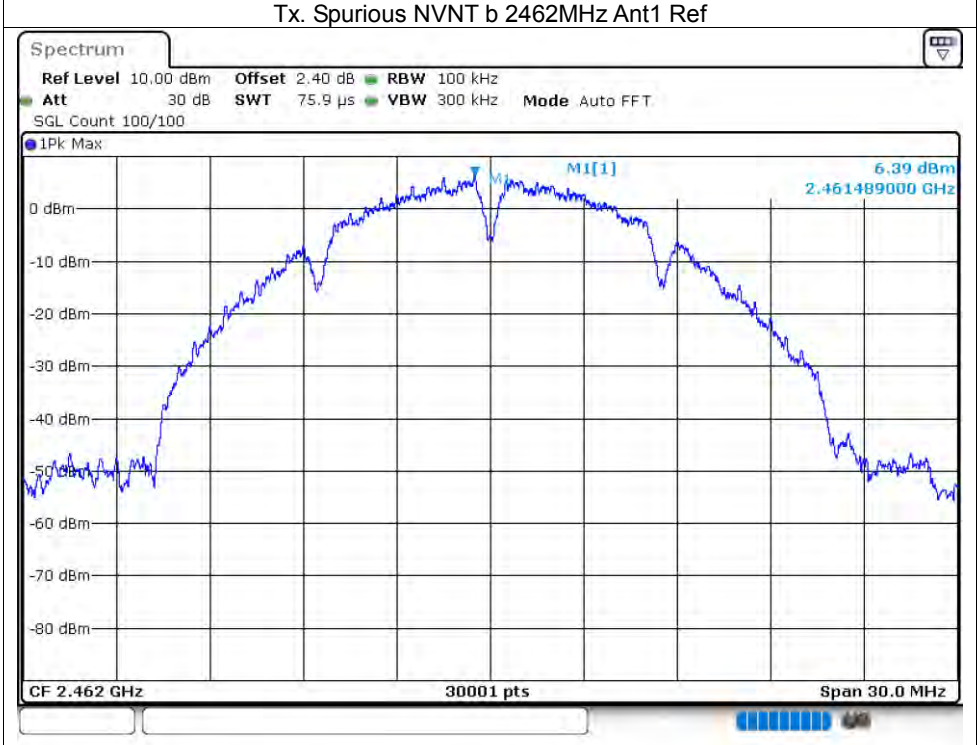
Tx. Spurious NVNT b 2437MHz Ant1 Emission



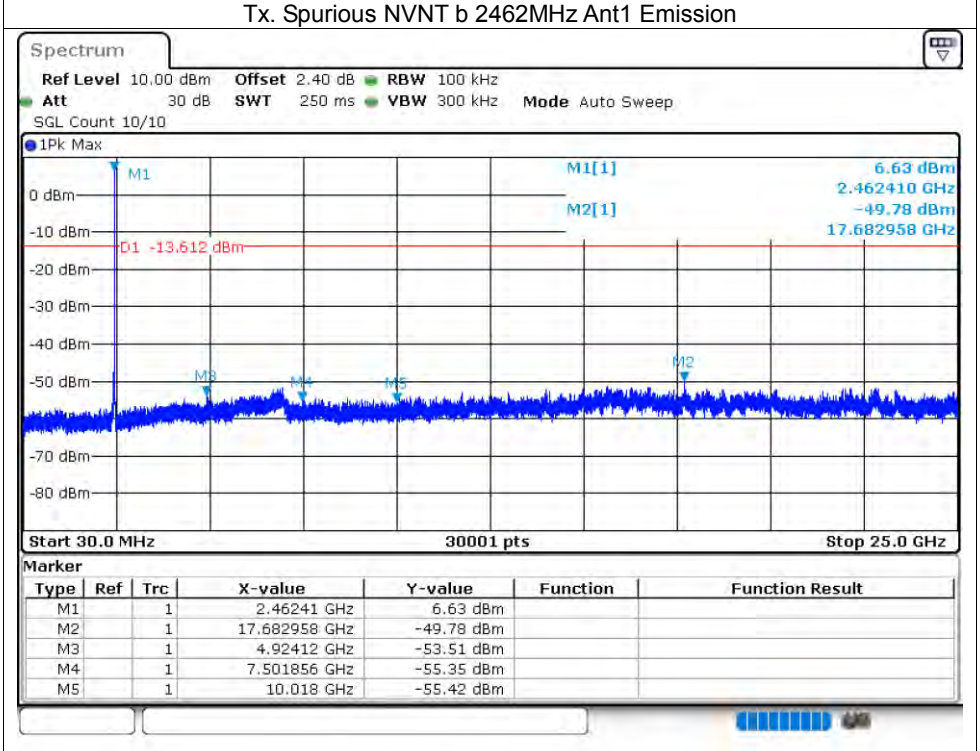
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43828 GHz	6.73 dBm		
M2		1	15.592969 GHz	-50.98 dBm		
M3		1	4.964904 GHz	-55.30 dBm		
M4		1	7.318743 GHz	-54.77 dBm		
M5		1	9.63263 GHz	-55.72 dBm		

Tx. Spurious NVNT b 2462MHz Ant1 Ref



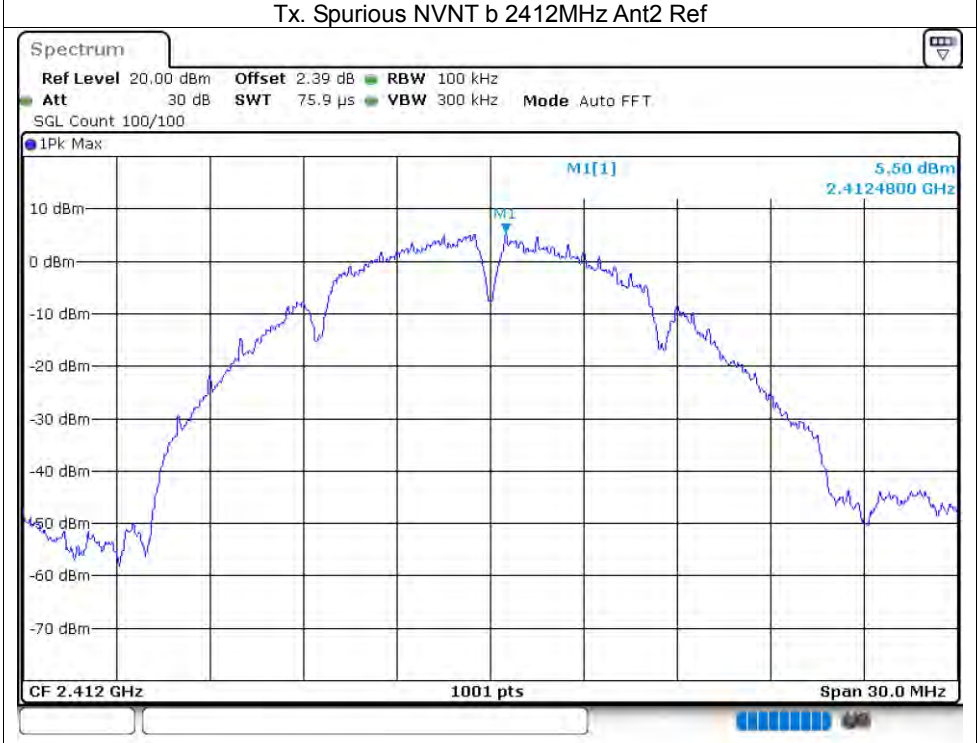
Tx. Spurious NVNT b 2462MHz Ant1 Emission



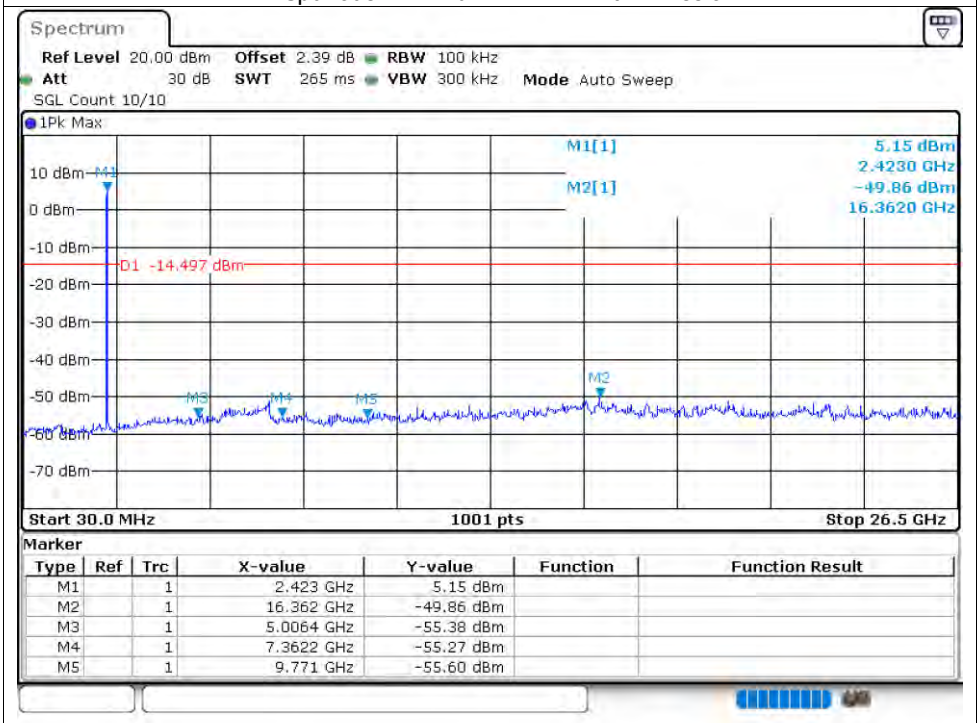
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46241 GHz	6.63 dBm		
M2		1	17.682958 GHz	-49.78 dBm		
M3		1	4.92412 GHz	-53.51 dBm		
M4		1	7.501856 GHz	-55.35 dBm		
M5		1	10.018 GHz	-55.42 dBm		

Tx. Spurious NVNT b 2412MHz Ant2 Ref



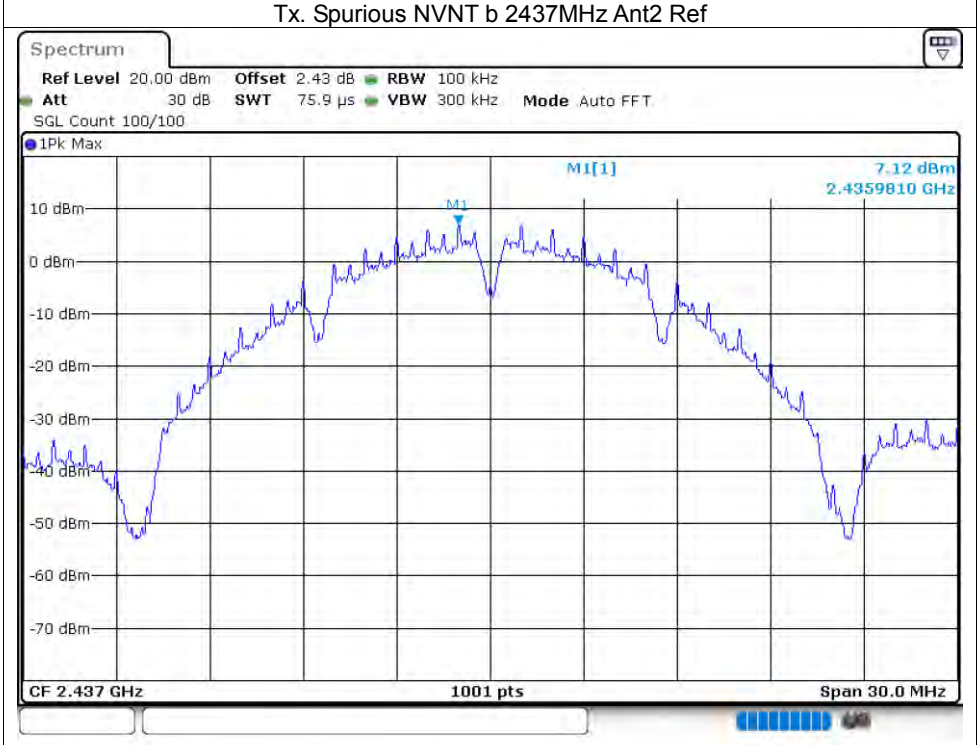
Tx. Spurious NVNT b 2412MHz Ant2 Emission



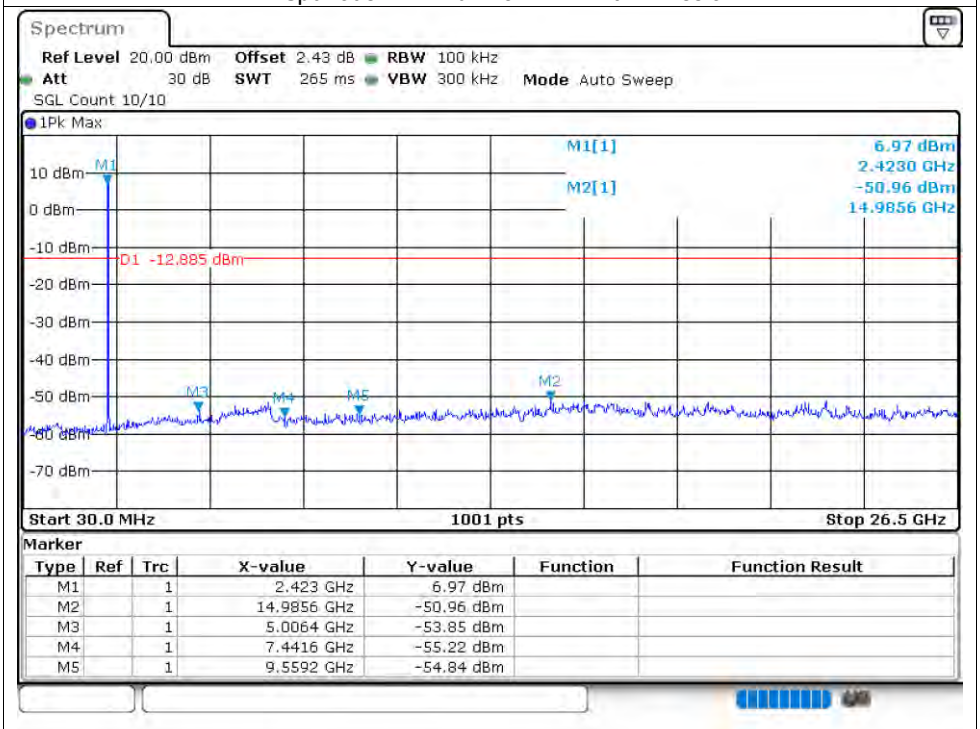
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	5.15 dBm		
M2		1	16.362 GHz	-49.86 dBm		
M3		1	5.0064 GHz	-55.38 dBm		
M4		1	7.3622 GHz	-55.27 dBm		
M5		1	9.771 GHz	-55.60 dBm		

Tx. Spurious NVNT b 2437MHz Ant2 Ref



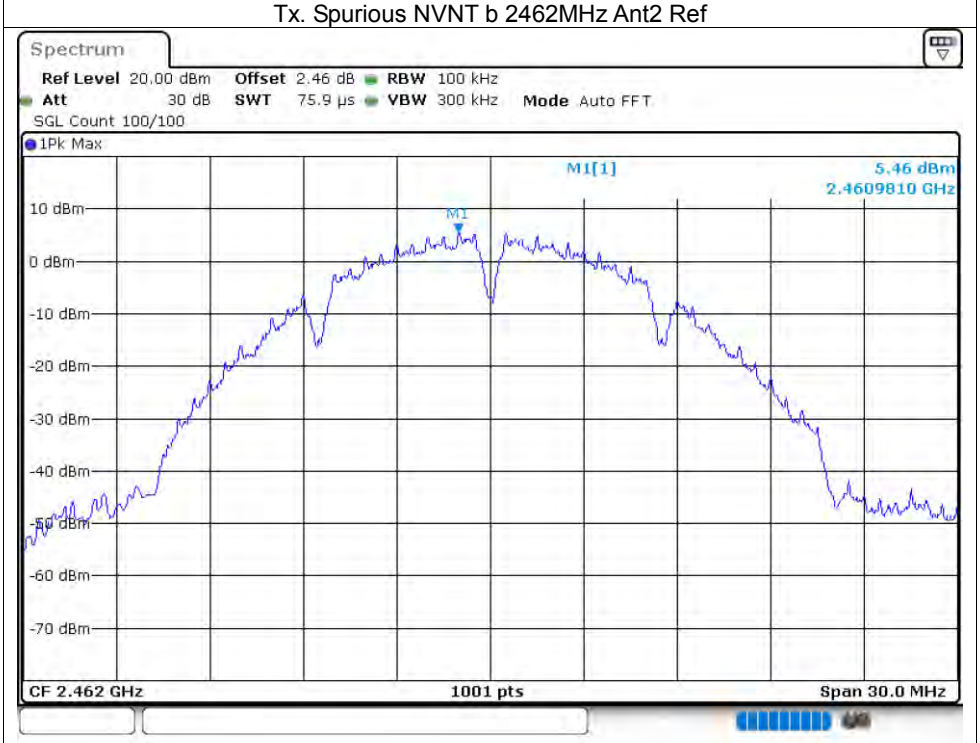
Tx. Spurious NVNT b 2437MHz Ant2 Emission



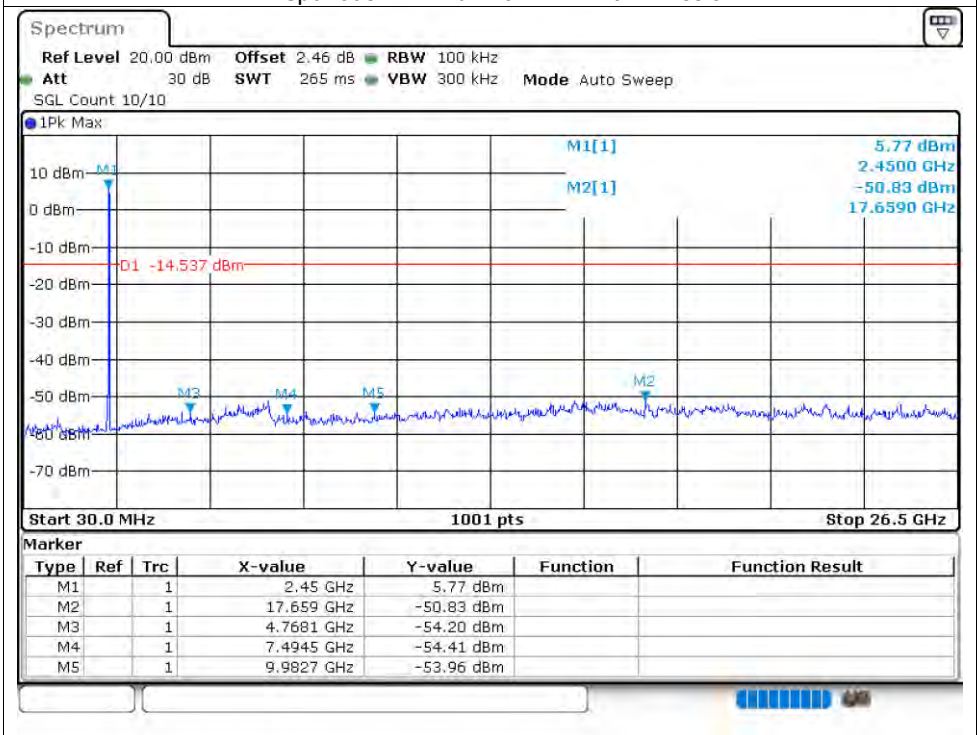
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	6.97 dBm		
M2		1	14.9856 GHz	-50.96 dBm		
M3		1	5.0064 GHz	-53.85 dBm		
M4		1	7.4416 GHz	-55.22 dBm		
M5		1	9.5592 GHz	-54.84 dBm		

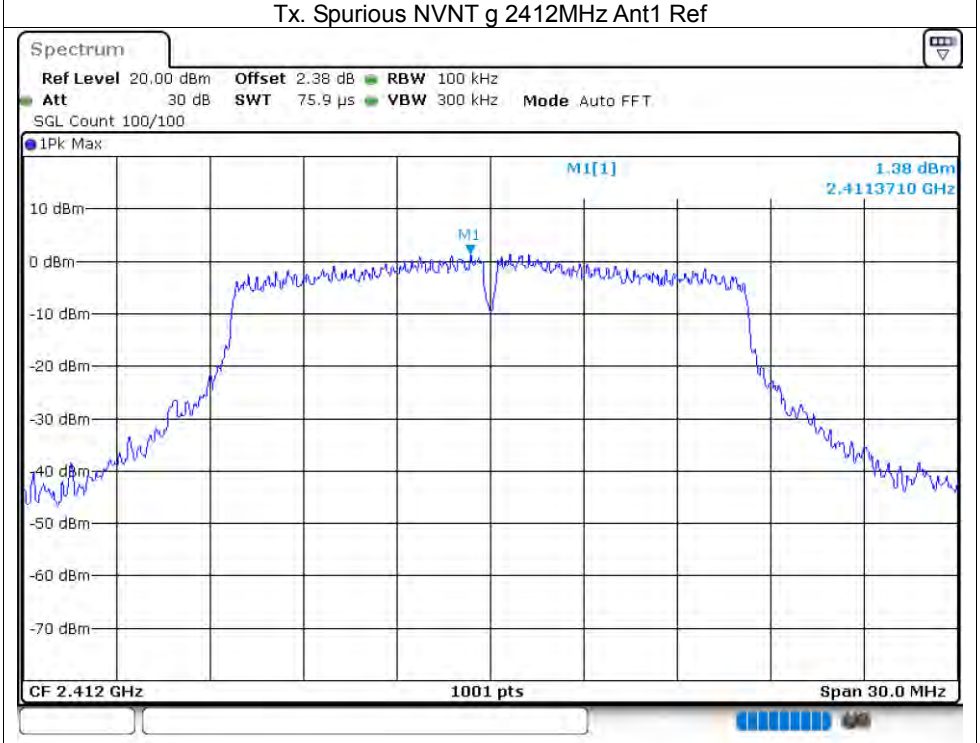
Tx. Spurious NVNT b 2462MHz Ant2 Ref



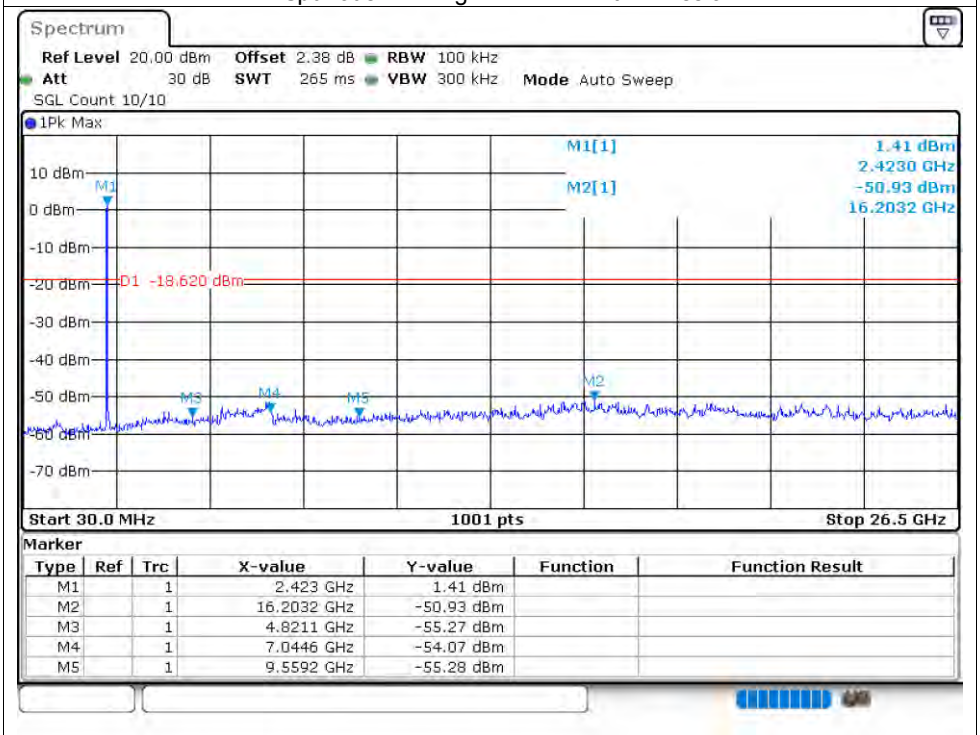
Tx. Spurious NVNT b 2462MHz Ant2 Emission



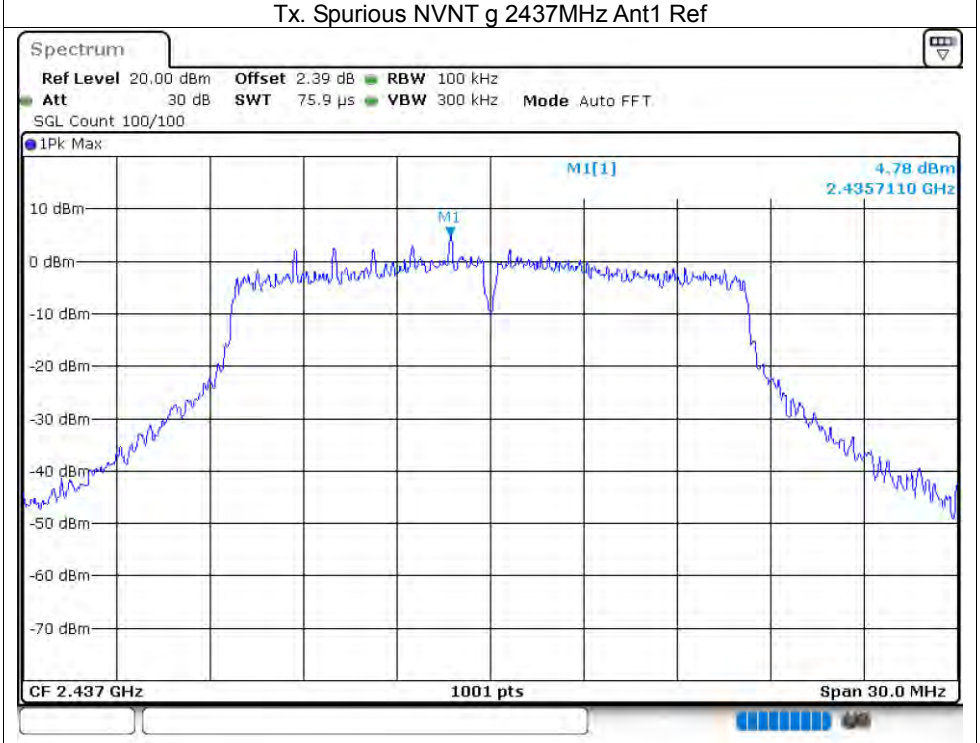
Tx. Spurious NVNT g 2412MHz Ant1 Ref



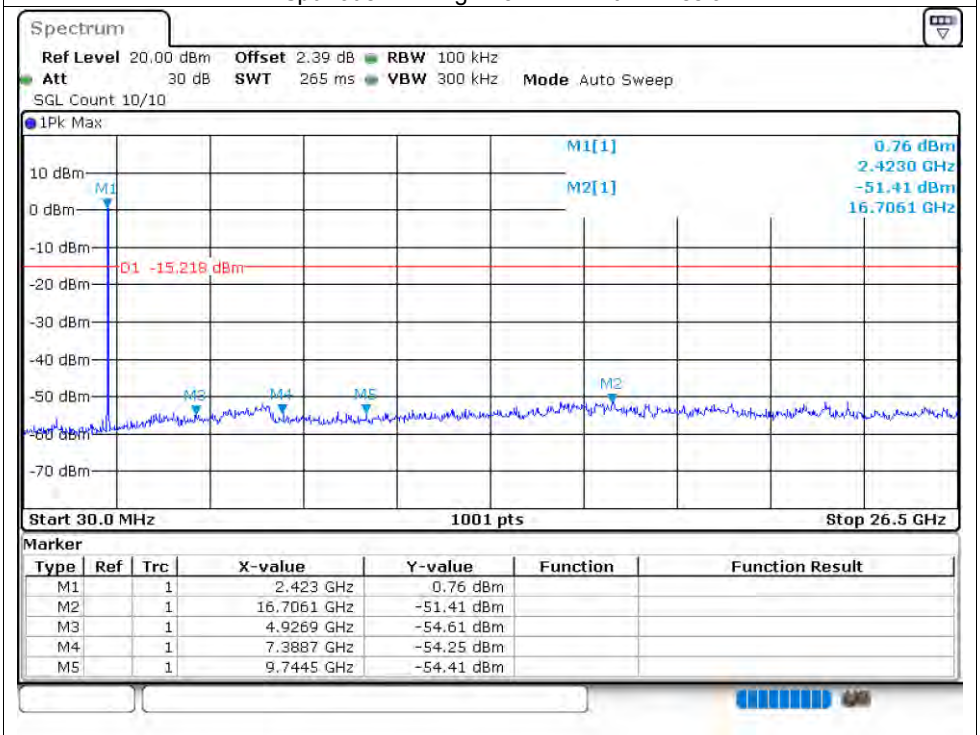
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



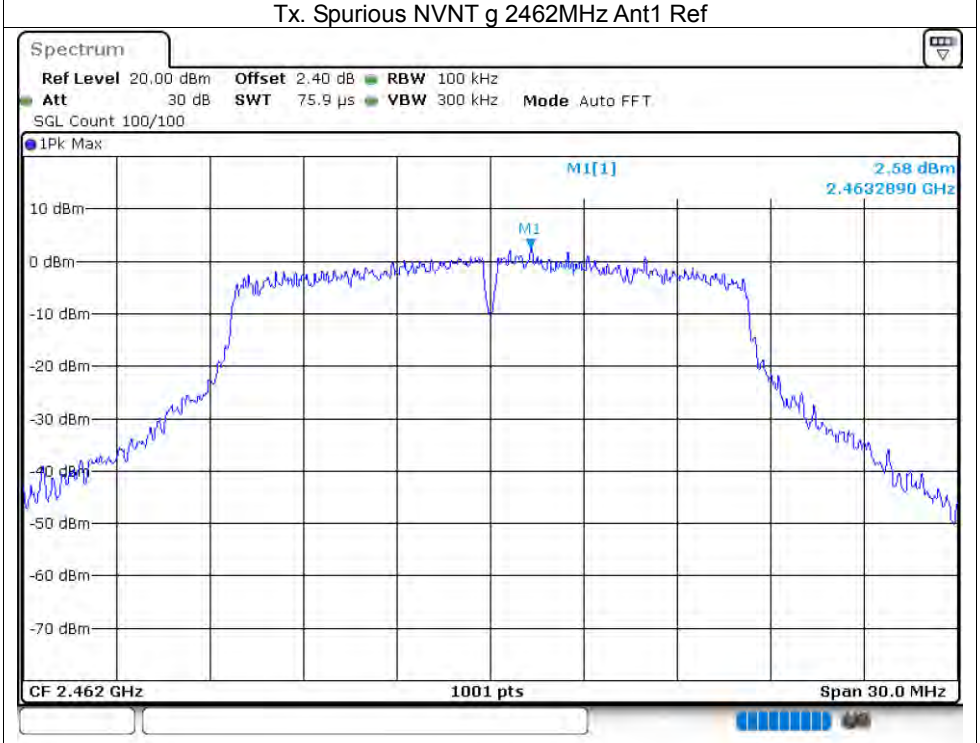
Tx. Spurious NVNT g 2437MHz Ant1 Emission



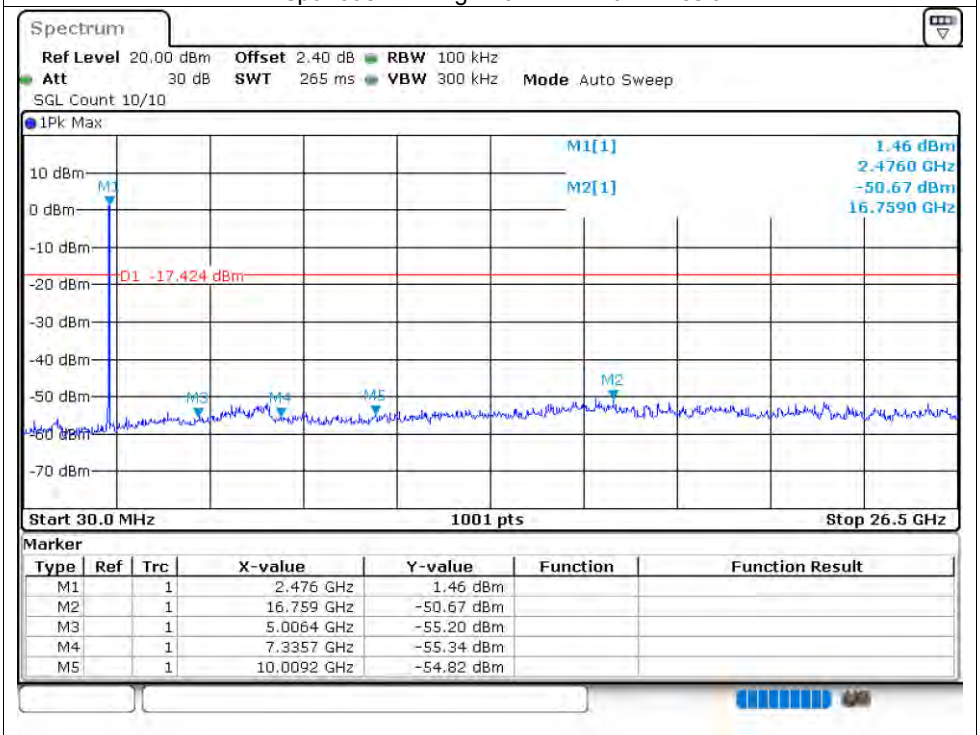
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	0.76 dBm		
M2		1	16.7061 GHz	-51.41 dBm		
M3		1	4.9269 GHz	-54.61 dBm		
M4		1	7.3887 GHz	-54.25 dBm		
M5		1	9.7445 GHz	-54.41 dBm		

Tx. Spurious NVNT g 2462MHz Ant1 Ref



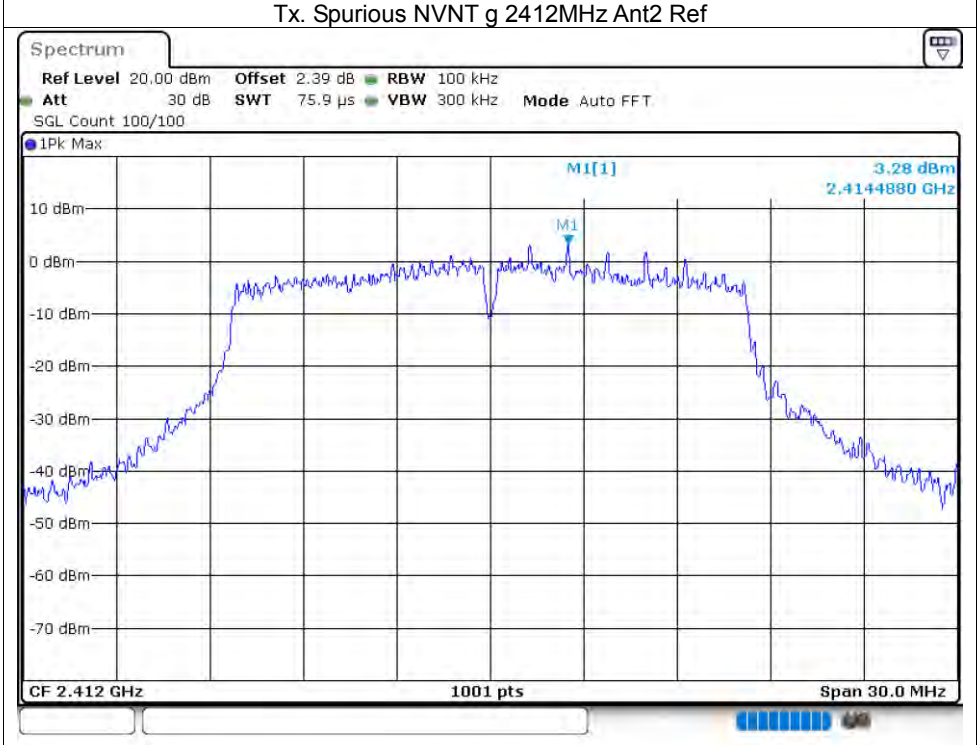
Tx. Spurious NVNT g 2462MHz Ant1 Emission



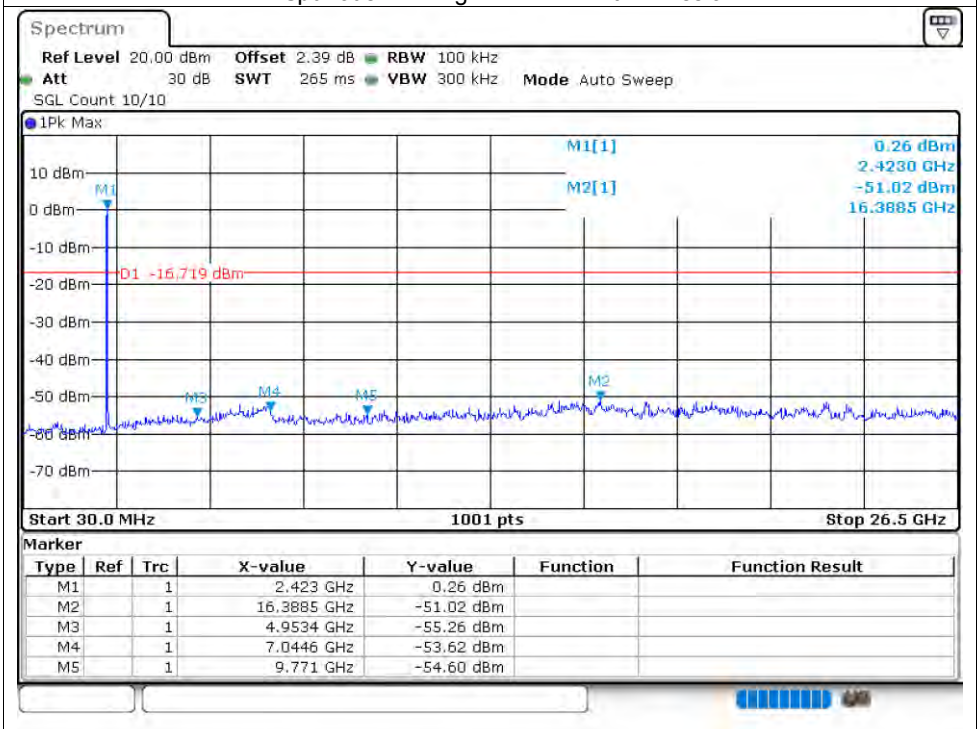
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	1.46 dBm		
M2		1	16.759 GHz	-50.67 dBm		
M3		1	5.0064 GHz	-55.20 dBm		
M4		1	7.3357 GHz	-55.34 dBm		
M5		1	10.0092 GHz	-54.82 dBm		

Tx. Spurious NVNT g 2412MHz Ant2 Ref



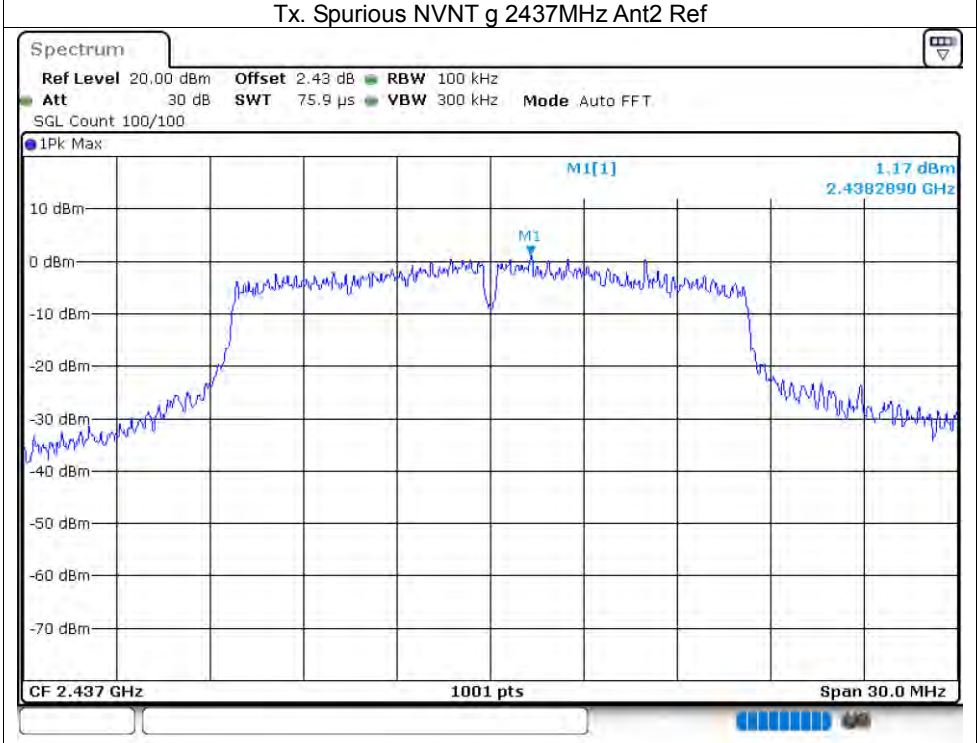
Tx. Spurious NVNT g 2412MHz Ant2 Emission



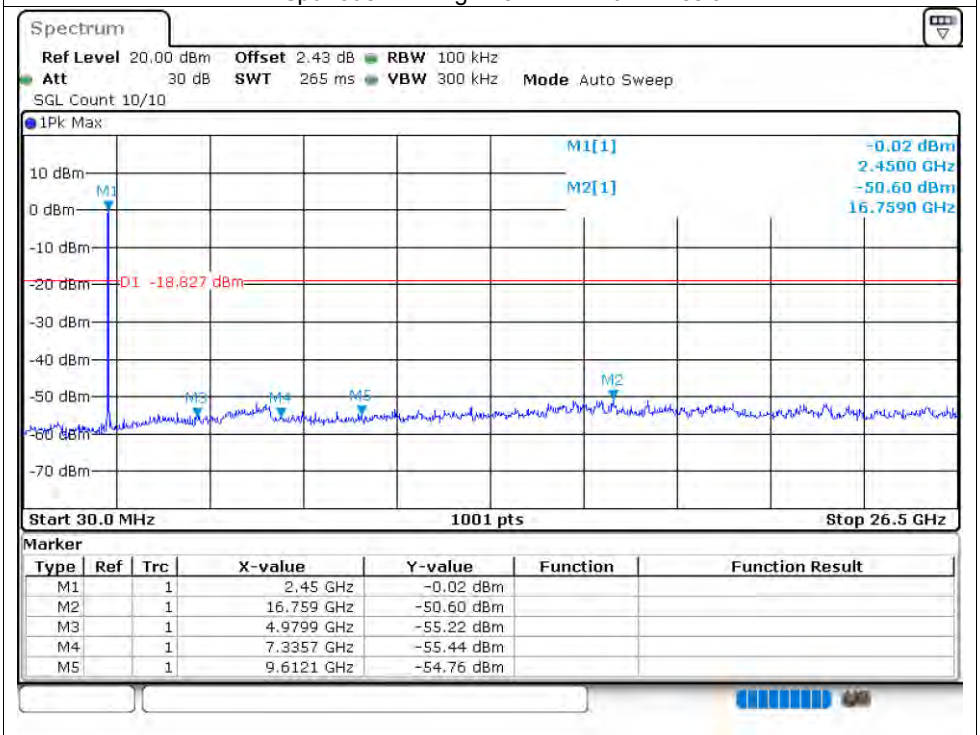
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	0.26 dBm		
M2		1	16.3885 GHz	-51.02 dBm		
M3		1	4.9534 GHz	-55.26 dBm		
M4		1	7.0446 GHz	-53.62 dBm		
M5		1	9.771 GHz	-54.60 dBm		

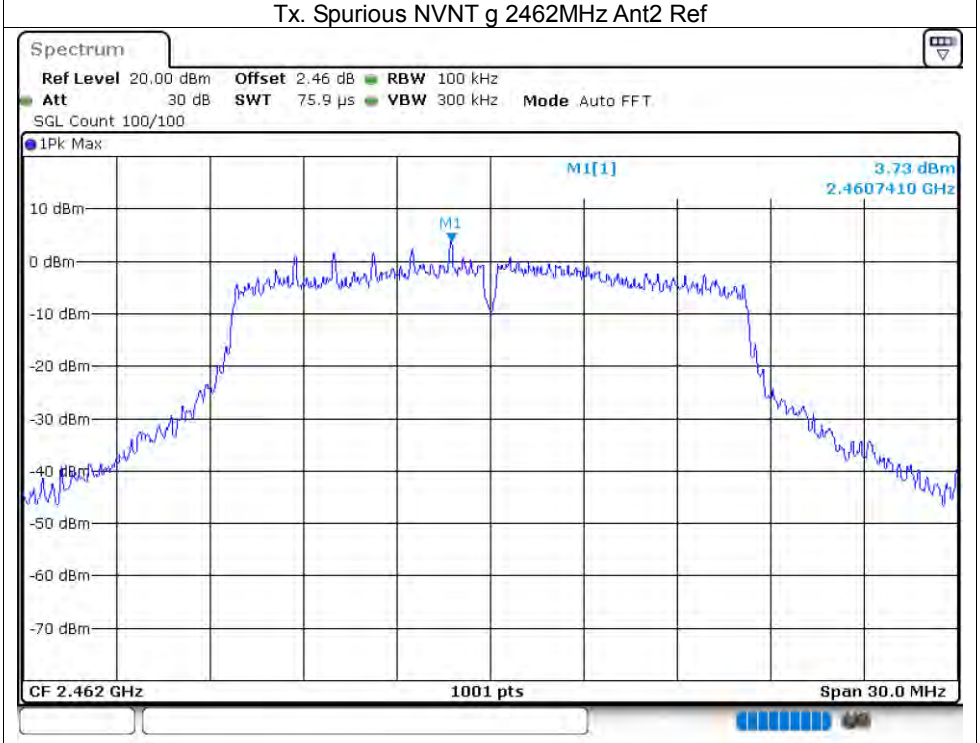
Tx. Spurious NVNT g 2437MHz Ant2 Ref



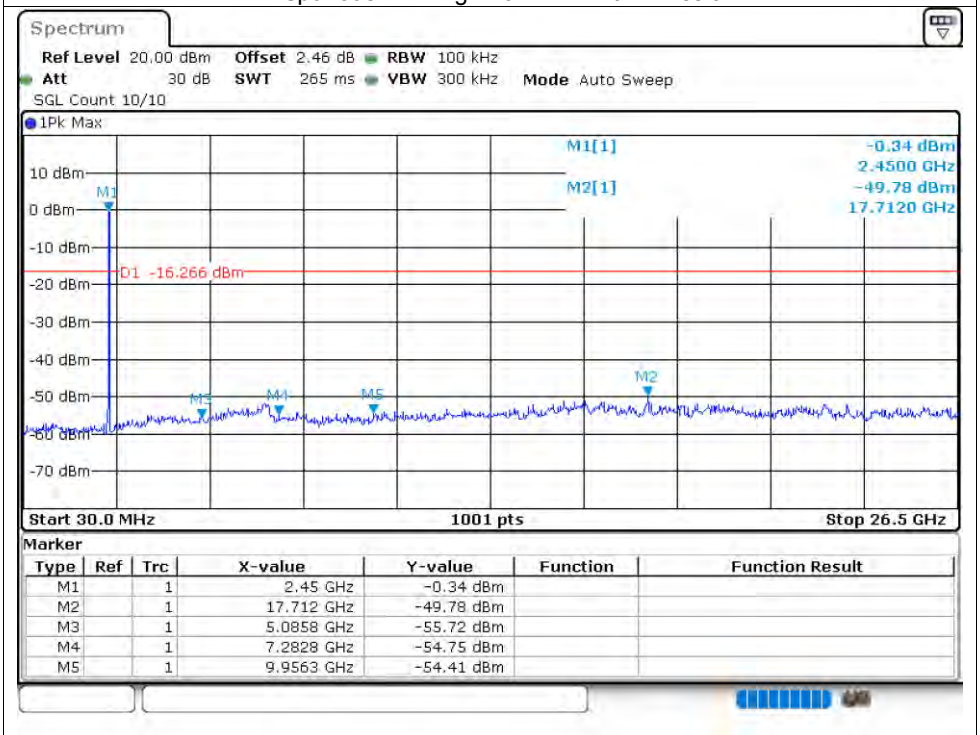
Tx. Spurious NVNT g 2437MHz Ant2 Emission



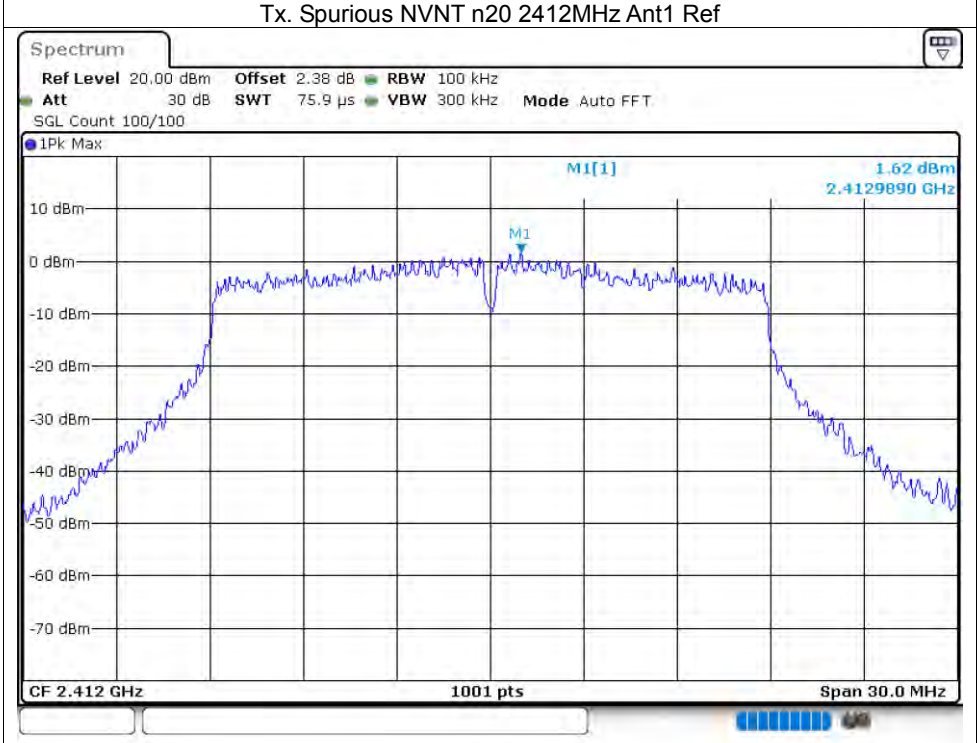
Tx. Spurious NVNT g 2462MHz Ant2 Ref



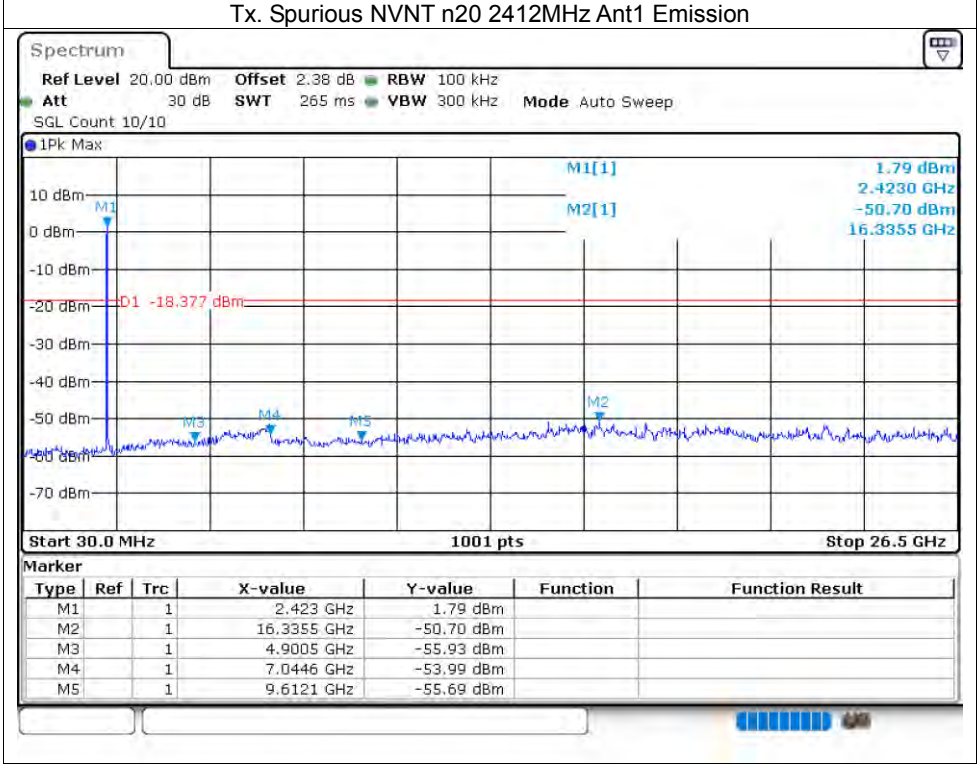
Tx. Spurious NVNT g 2462MHz Ant2 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref

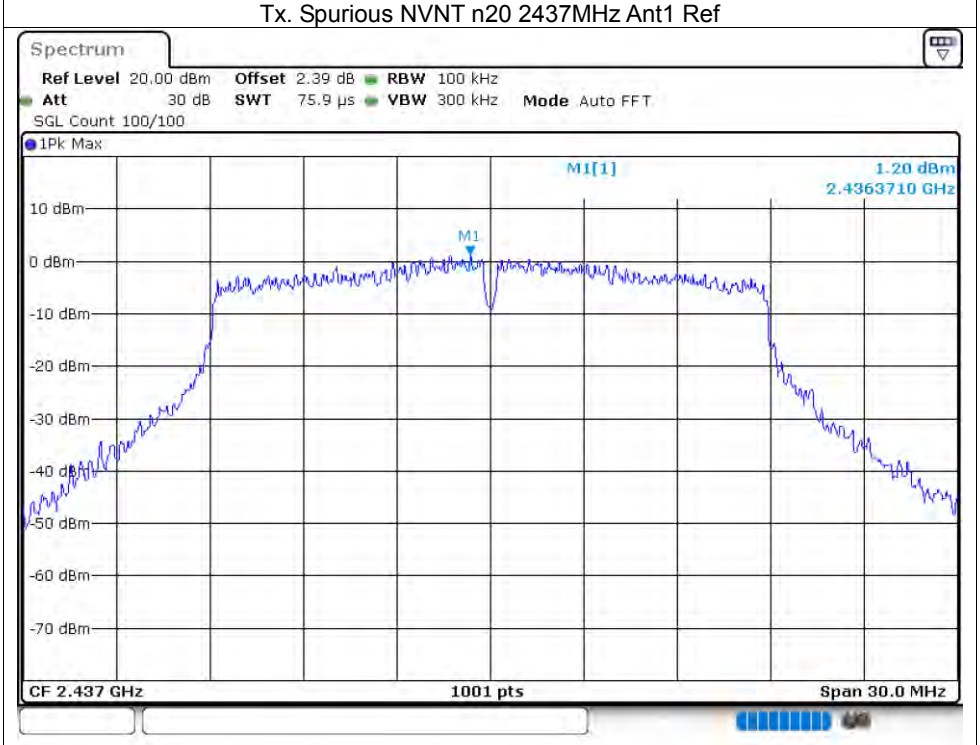


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

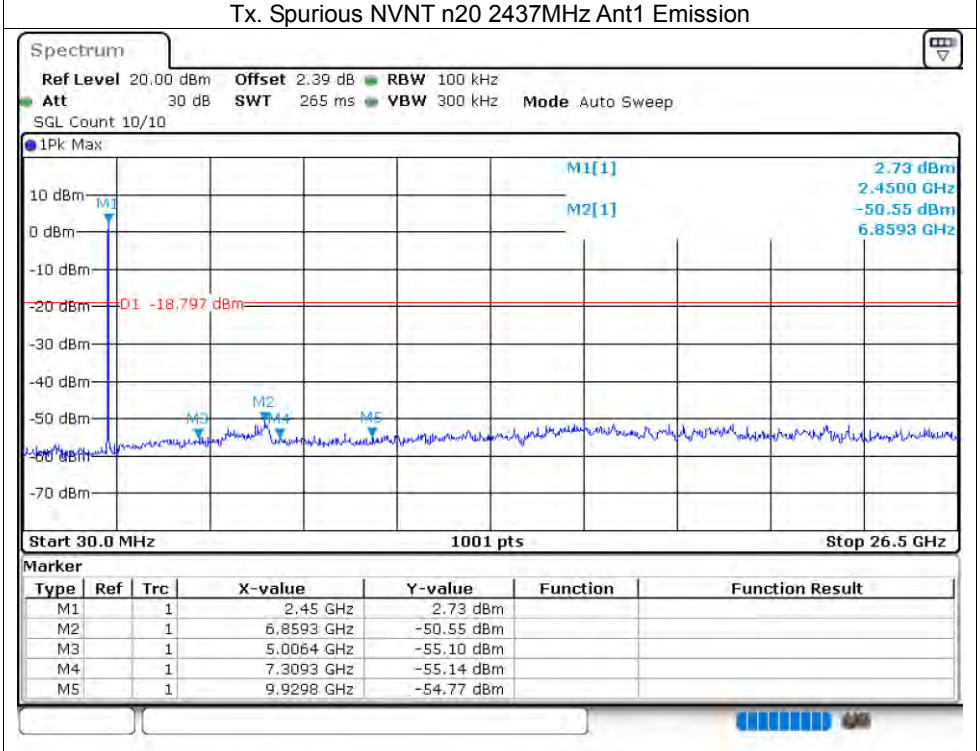


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	1.79 dBm		
M2		1	16.3355 GHz	-50.70 dBm		
M3		1	4.9005 GHz	-55.93 dBm		
M4		1	7.0446 GHz	-53.99 dBm		
M5		1	9.6121 GHz	-55.69 dBm		

Tx. Spurious NVNT n20 2437MHz Ant1 Ref

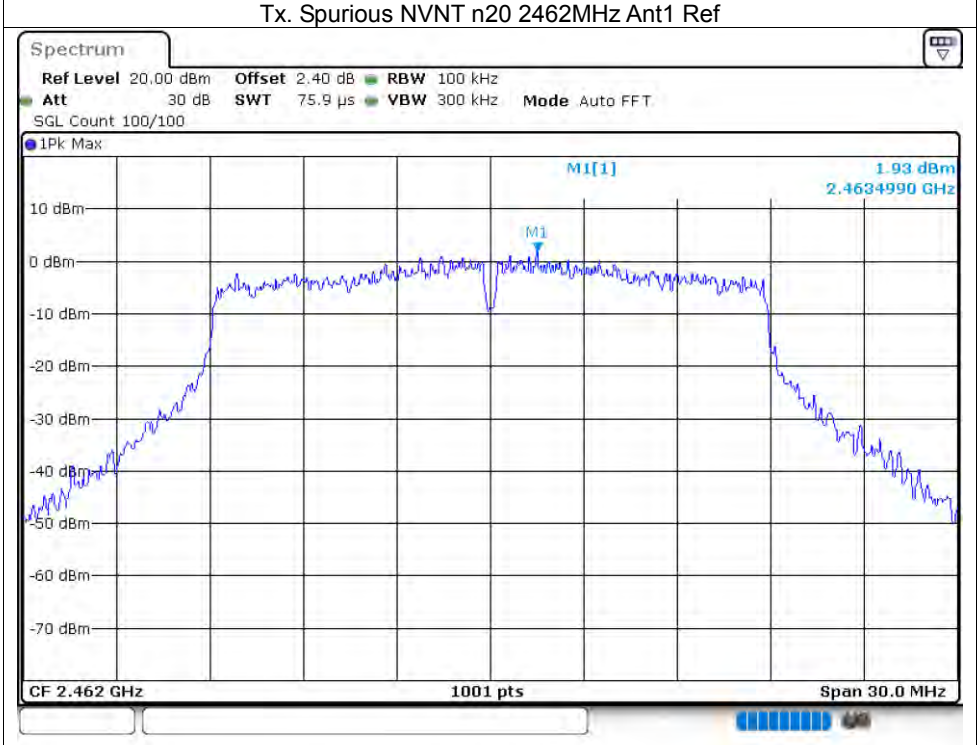


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

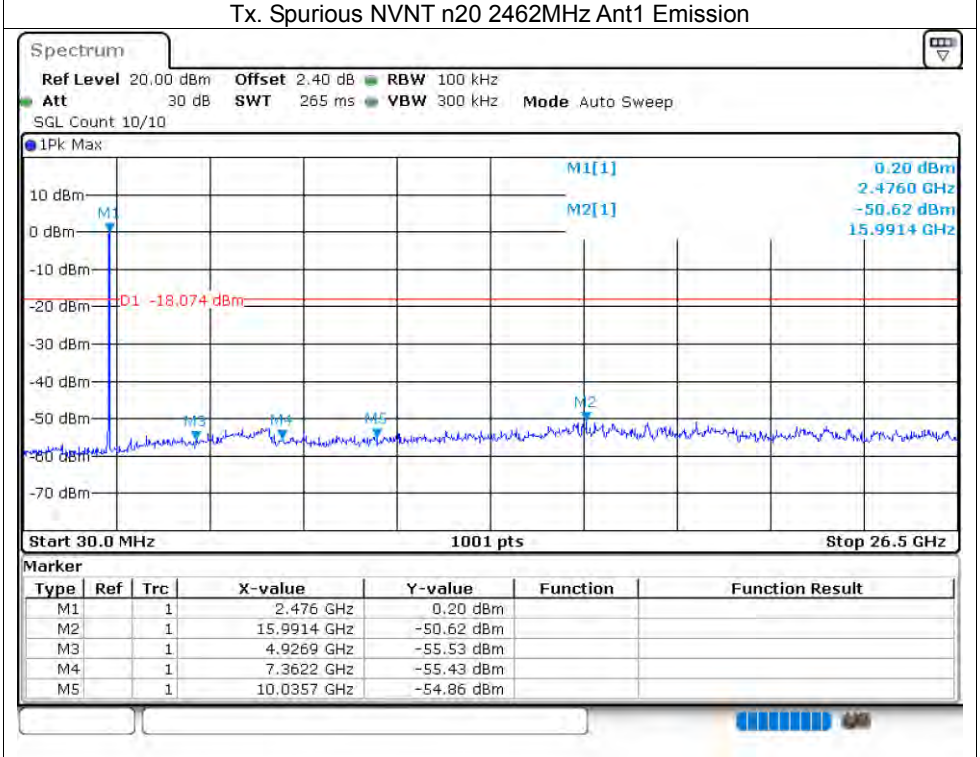


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	2.73 dBm		
M2		1	6.8593 GHz	-50.55 dBm		
M3		1	5.0064 GHz	-55.10 dBm		
M4		1	7.3093 GHz	-55.14 dBm		
M5		1	9.9298 GHz	-54.77 dBm		

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



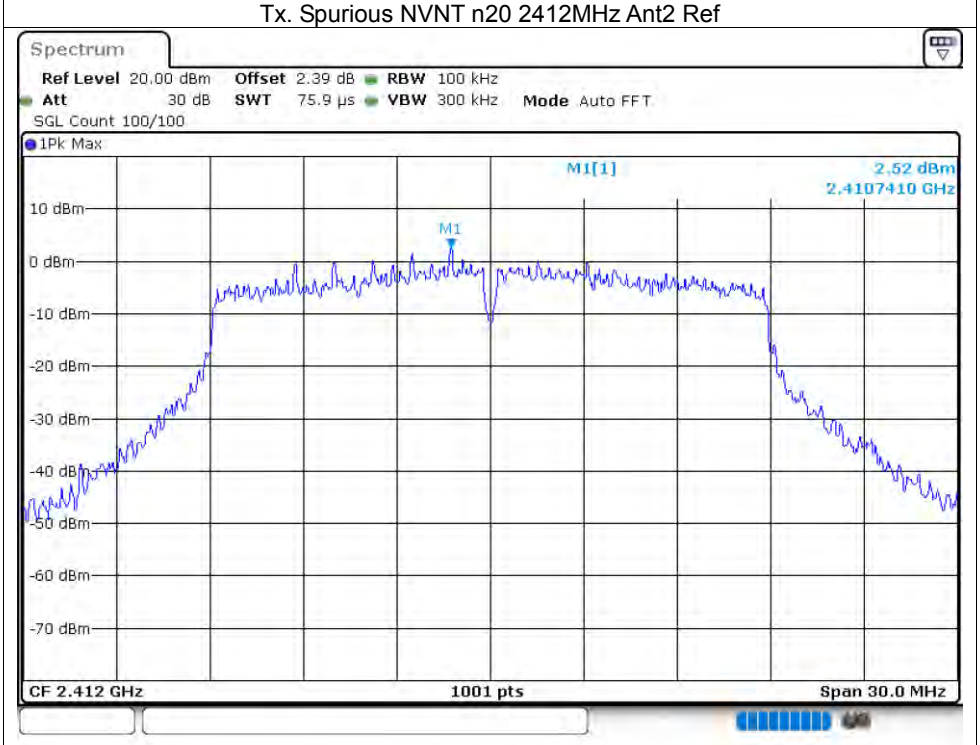
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



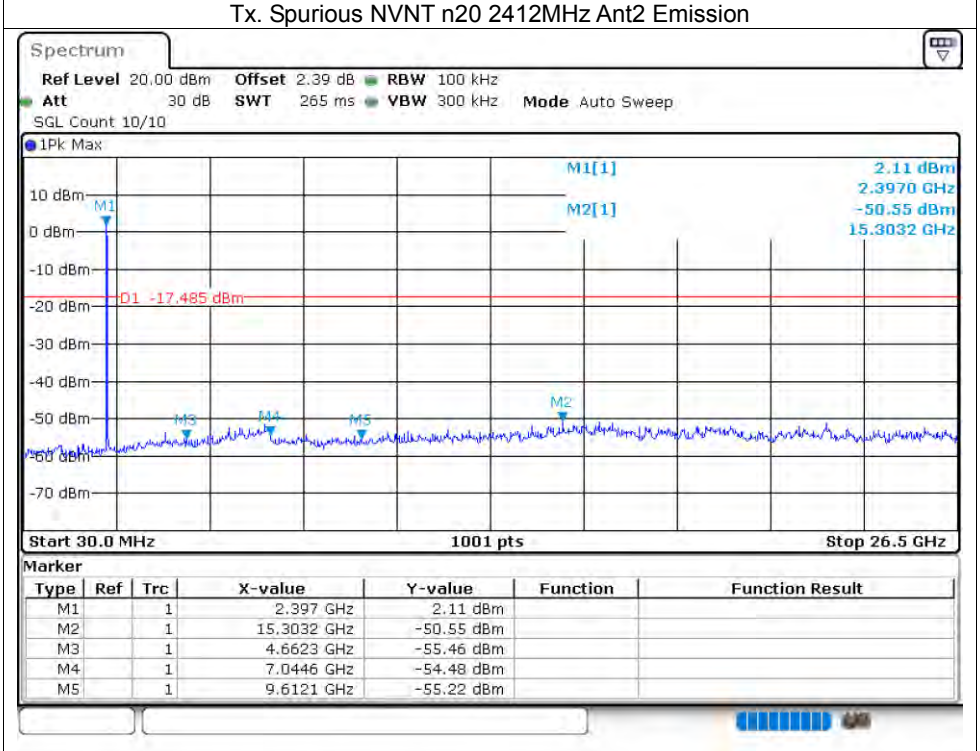
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	0.20 dBm		
M2		1	15.9914 GHz	-50.62 dBm		
M3		1	4.9269 GHz	-55.53 dBm		
M4		1	7.3622 GHz	-55.43 dBm		
M5		1	10.0357 GHz	-54.86 dBm		

Tx. Spurious NVNT n20 2412MHz Ant2 Ref



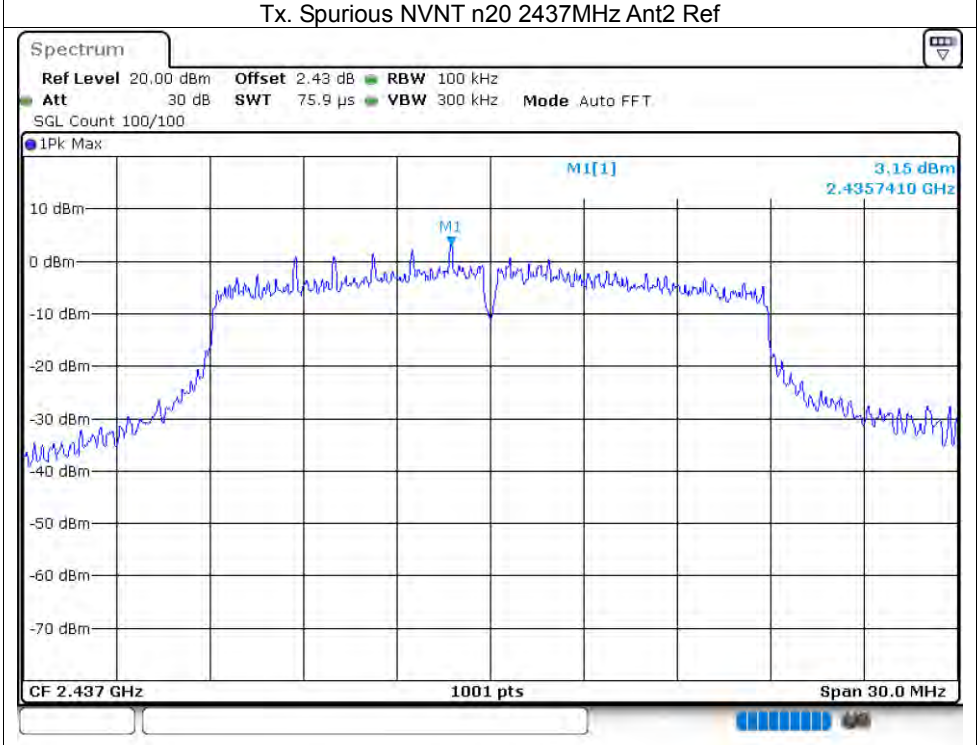
Tx. Spurious NVNT n20 2412MHz Ant2 Emission



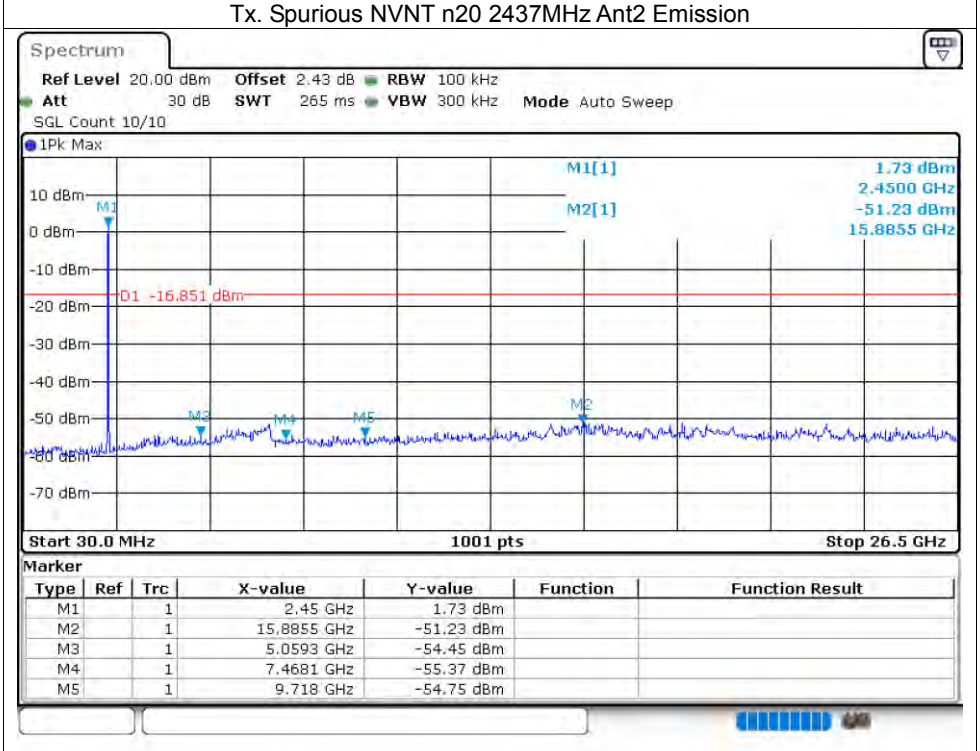
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	2.11 dBm		
M2		1	15.3032 GHz	-50.55 dBm		
M3		1	4.6623 GHz	-55.46 dBm		
M4		1	7.0446 GHz	-54.48 dBm		
M5		1	9.6121 GHz	-55.22 dBm		

Tx. Spurious NVNT n20 2437MHz Ant2 Ref



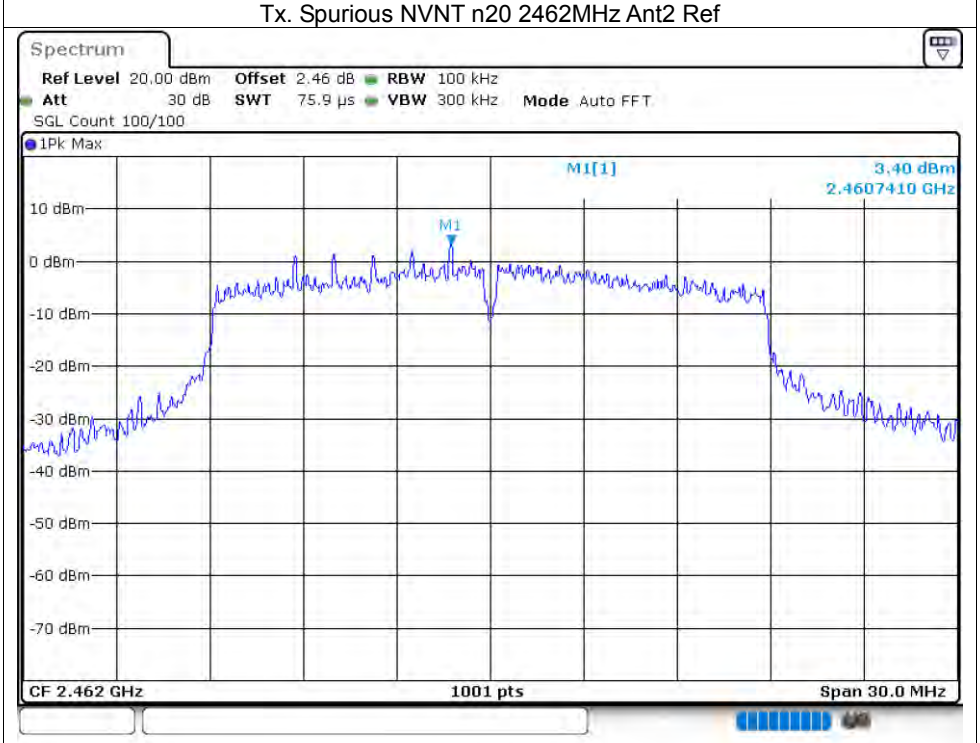
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



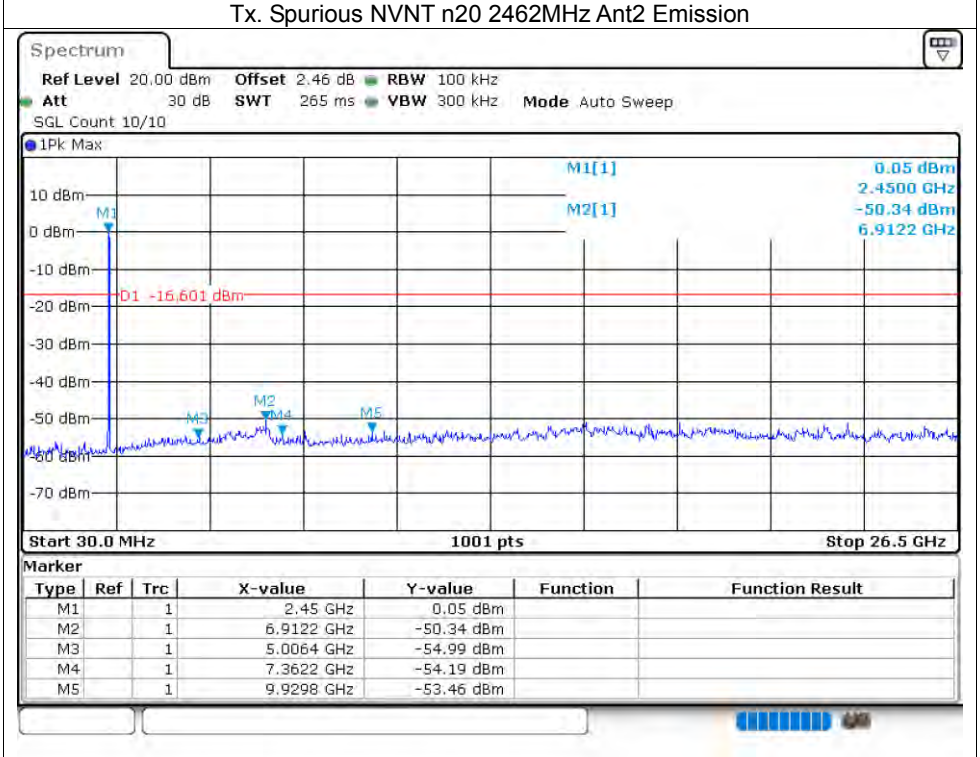
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	1.73 dBm		
M2		1	15.8855 GHz	-51.23 dBm		
M3		1	5.0593 GHz	-54.45 dBm		
M4		1	7.4681 GHz	-55.37 dBm		
M5		1	9.718 GHz	-54.75 dBm		

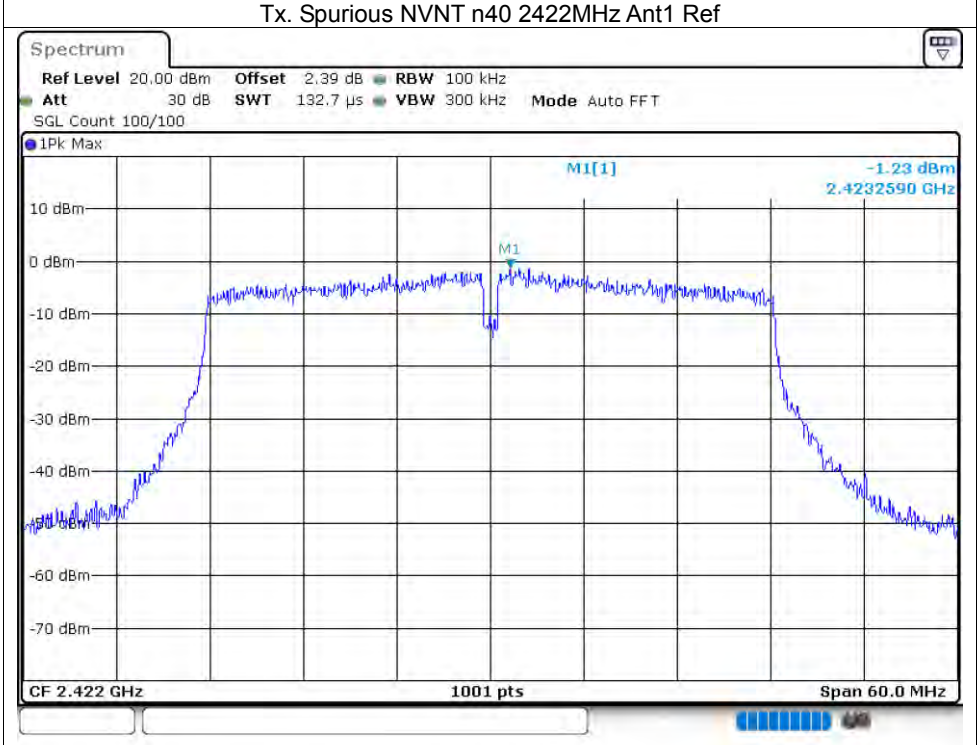
Tx. Spurious NVNT n20 2462MHz Ant2 Ref



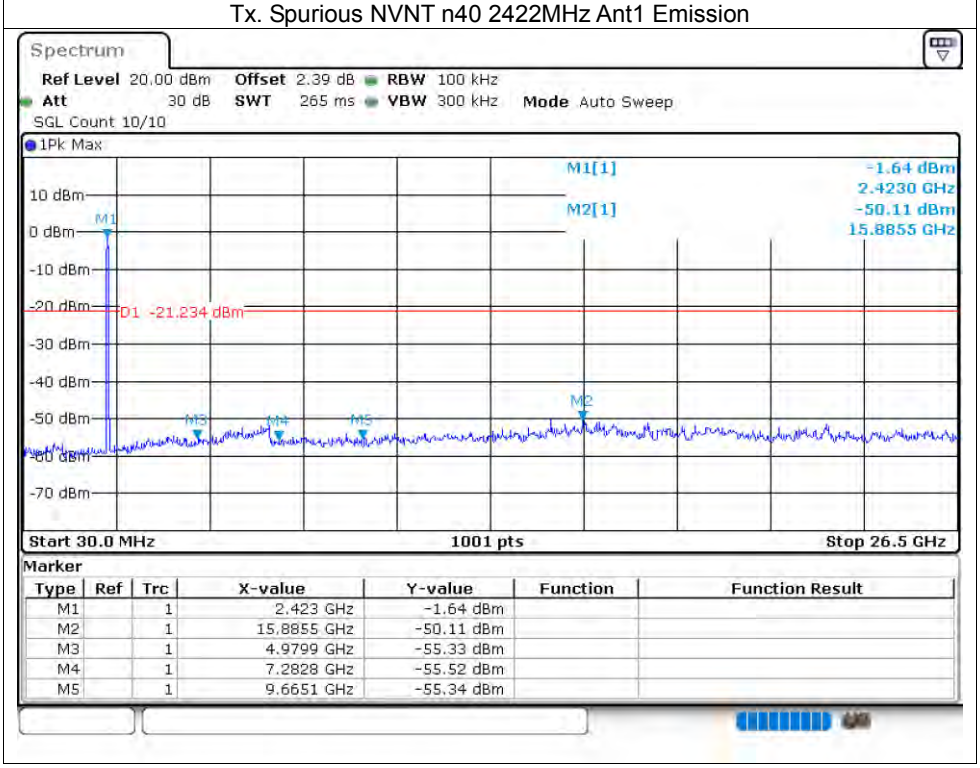
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



Tx. Spurious NVNT n40 2422MHz Ant1 Ref

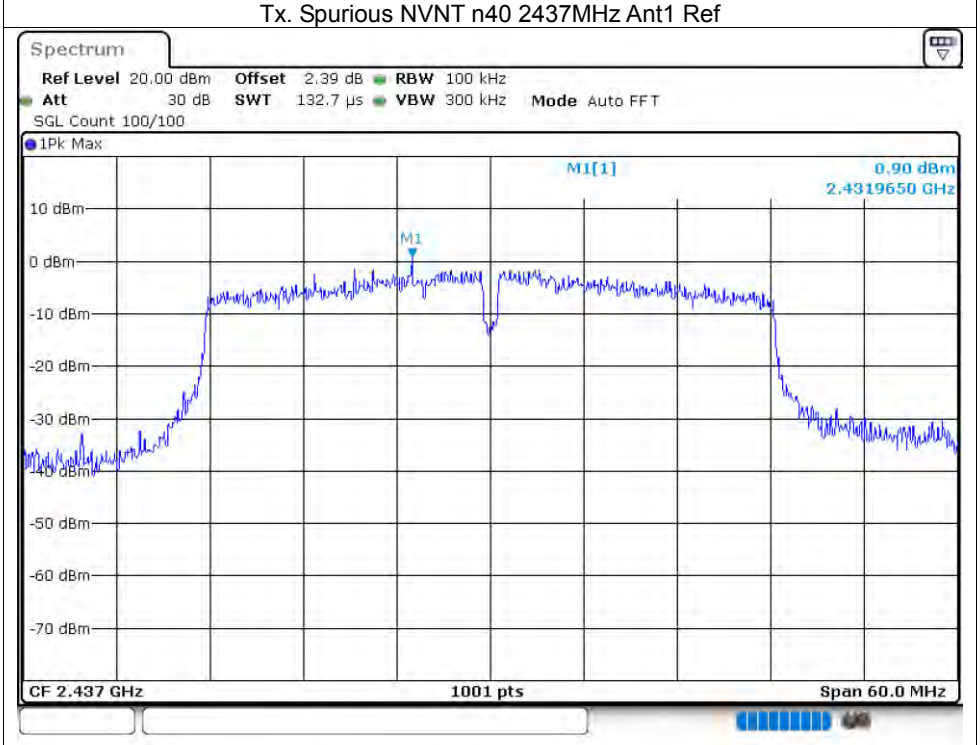


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

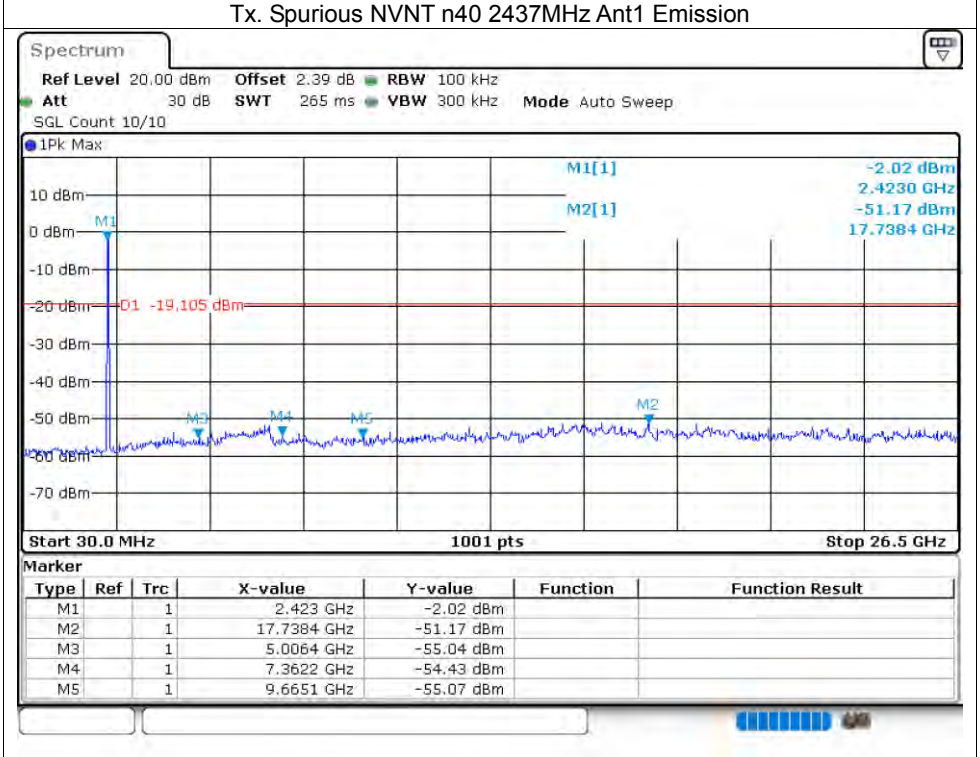


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-1.64 dBm		
M2		1	15.8855 GHz	-50.11 dBm		
M3		1	4.9799 GHz	-55.33 dBm		
M4		1	7.2828 GHz	-55.52 dBm		
M5		1	9.6651 GHz	-55.34 dBm		

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



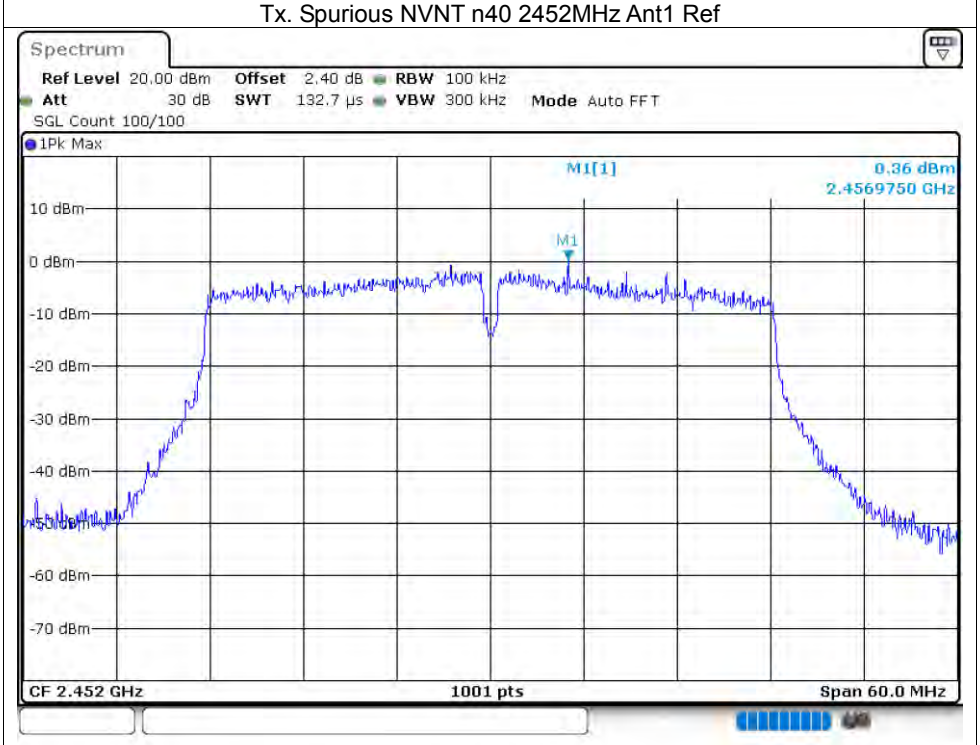
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



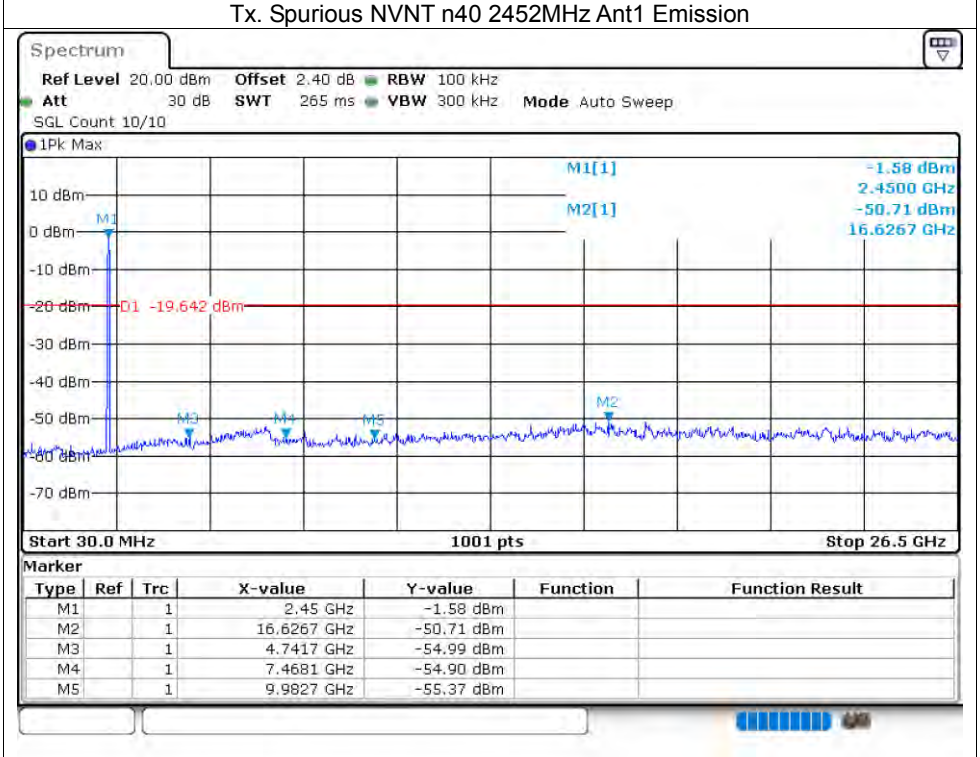
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-2.02 dBm		
M2		1	17.7384 GHz	-51.17 dBm		
M3		1	5.0064 GHz	-55.04 dBm		
M4		1	7.3622 GHz	-54.43 dBm		
M5		1	9.6651 GHz	-55.07 dBm		

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



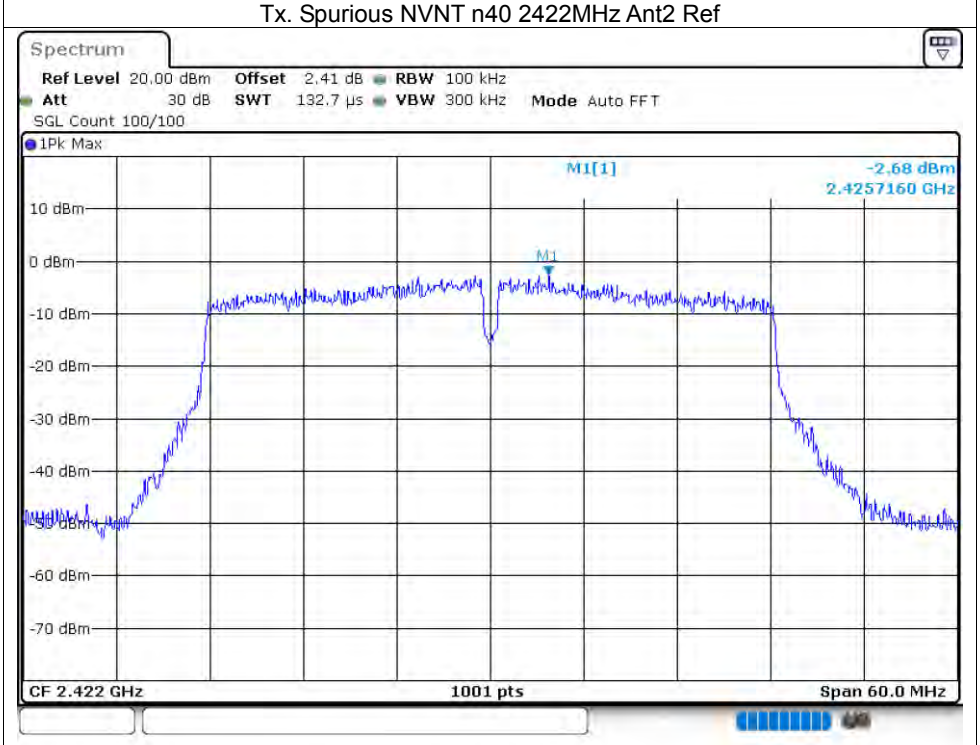
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



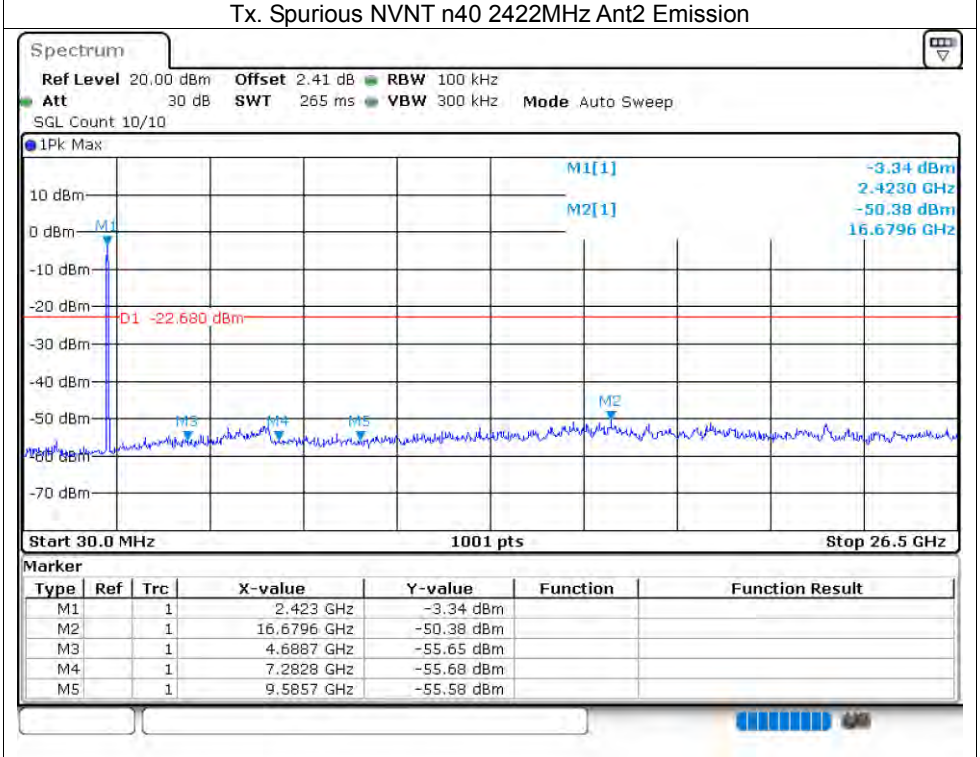
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-1.58 dBm		
M2		1	16.6267 GHz	-50.71 dBm		
M3		1	4.7417 GHz	-54.99 dBm		
M4		1	7.4681 GHz	-54.90 dBm		
M5		1	9.9827 GHz	-55.37 dBm		

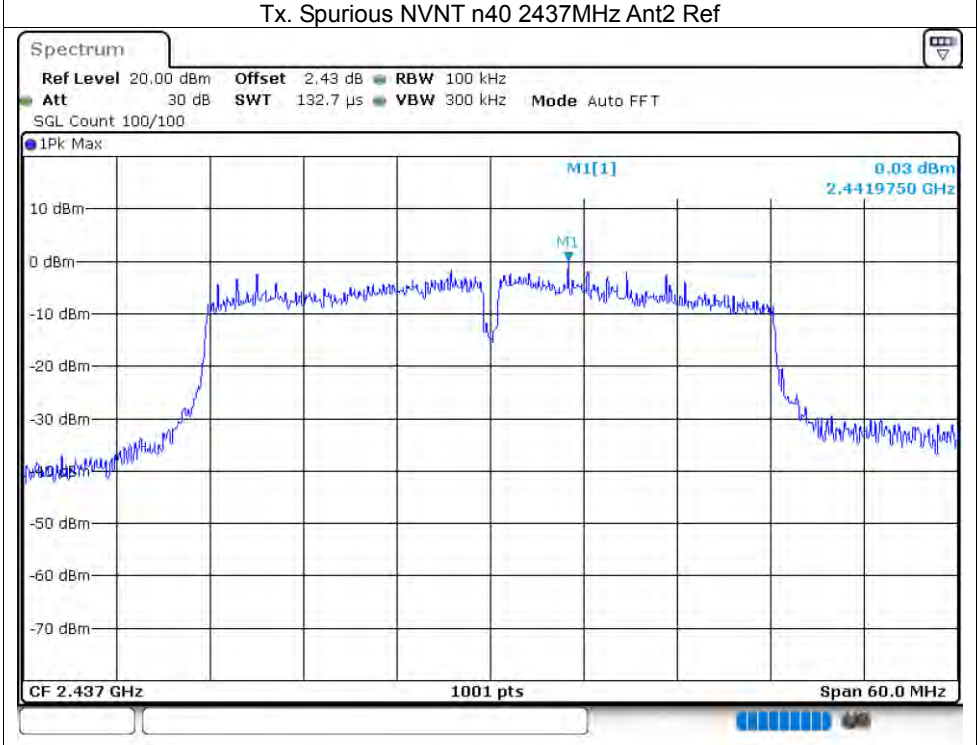
Tx. Spurious NVNT n40 2422MHz Ant2 Ref



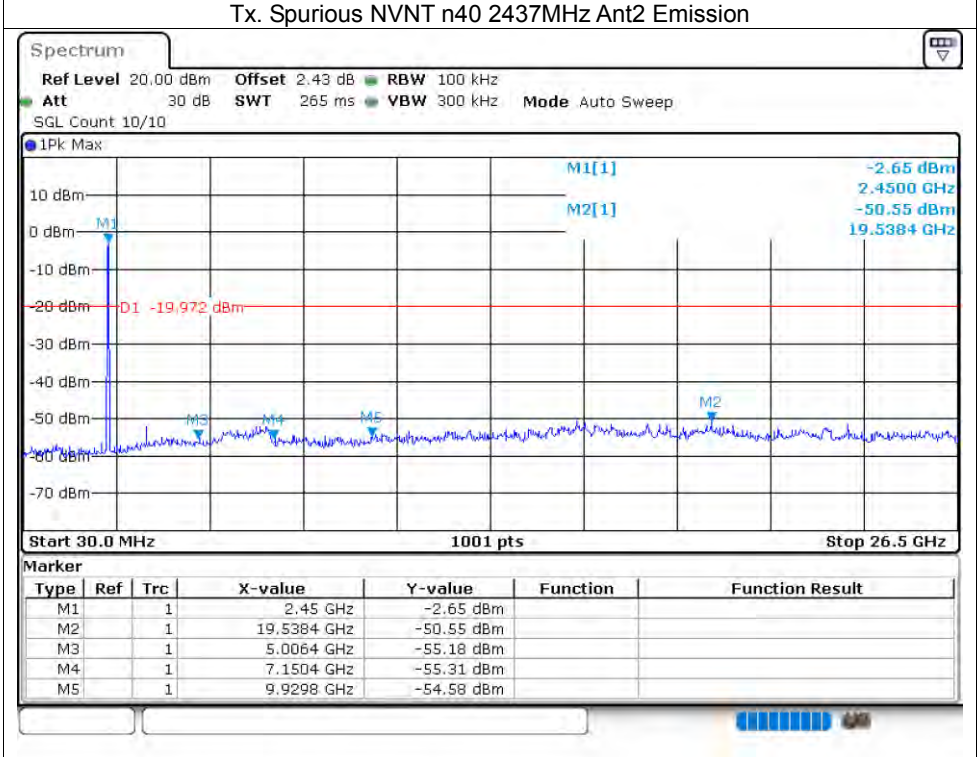
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



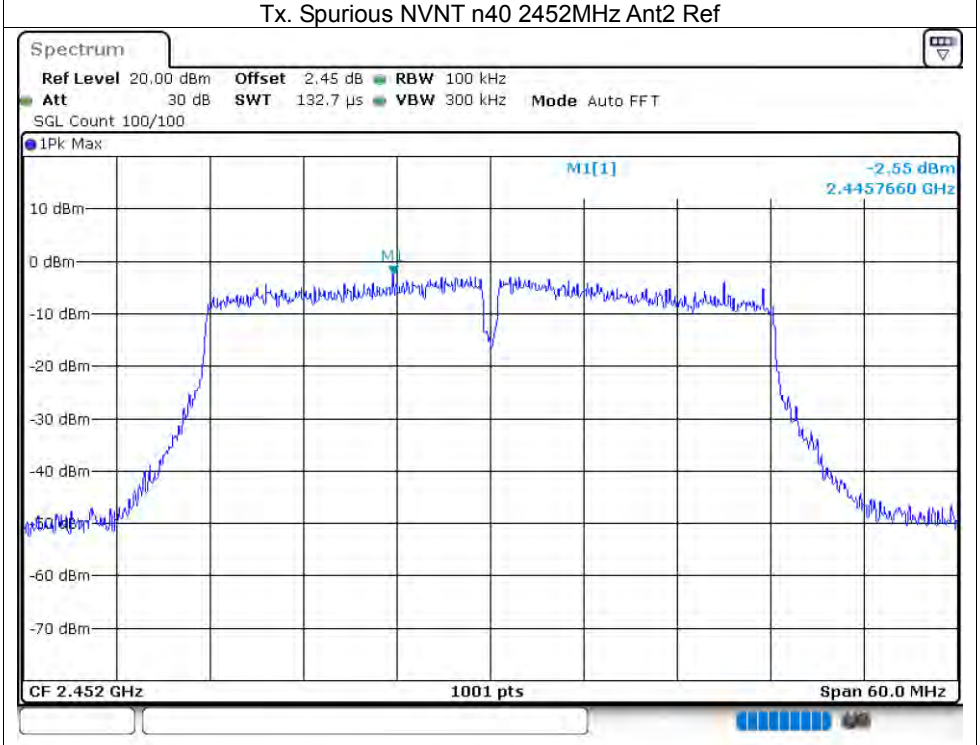
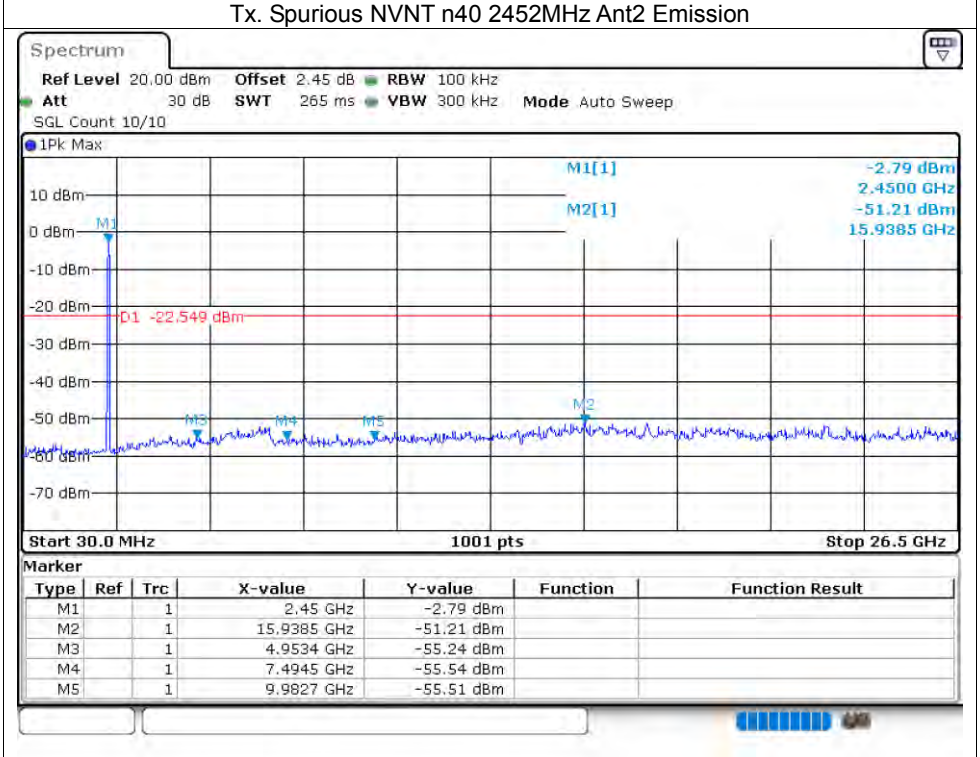
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



Tx. Spurious NVNT n40 2437MHz Ant2 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission