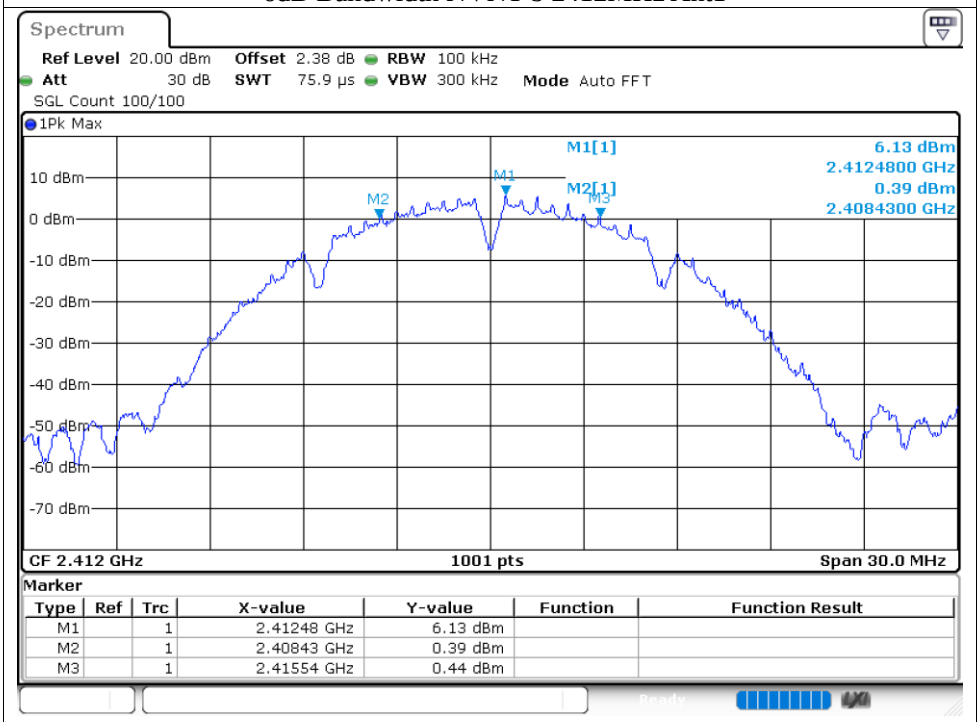
8.3 -6dB Bandwidth

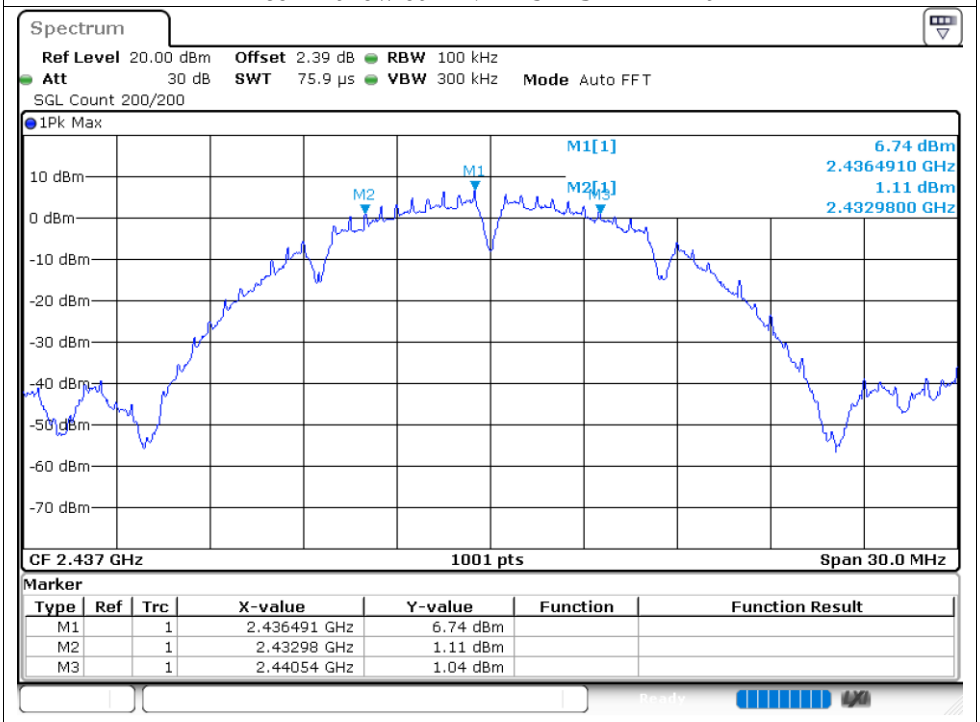
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.11	0.5	Pass
NVNT	b	2437	Ant1	7.56	0.5	Pass
NVNT	b	2462	Ant1	8.07	0.5	Pass
NVNT	g	2412	Ant1	14.157	0.5	Pass
NVNT	g	2437	Ant1	16.047	0.5	Pass
NVNT	g	2462	Ant1	16.332	0.5	Pass
NVNT	n20	2412	Ant1	12.57	0.5	Pass
NVNT	n20	2437	Ant1	16.251	0.5	Pass
NVNT	n20	2462	Ant1	13.212	0.5	Pass
NVNT	n40	2422	Ant1	33.804	0.5	Pass
NVNT	n40	2437	Ant1	35.784	0.5	Pass
NVNT	n40	2452	Ant1	25.032	0.5	Pass

Test Graphs

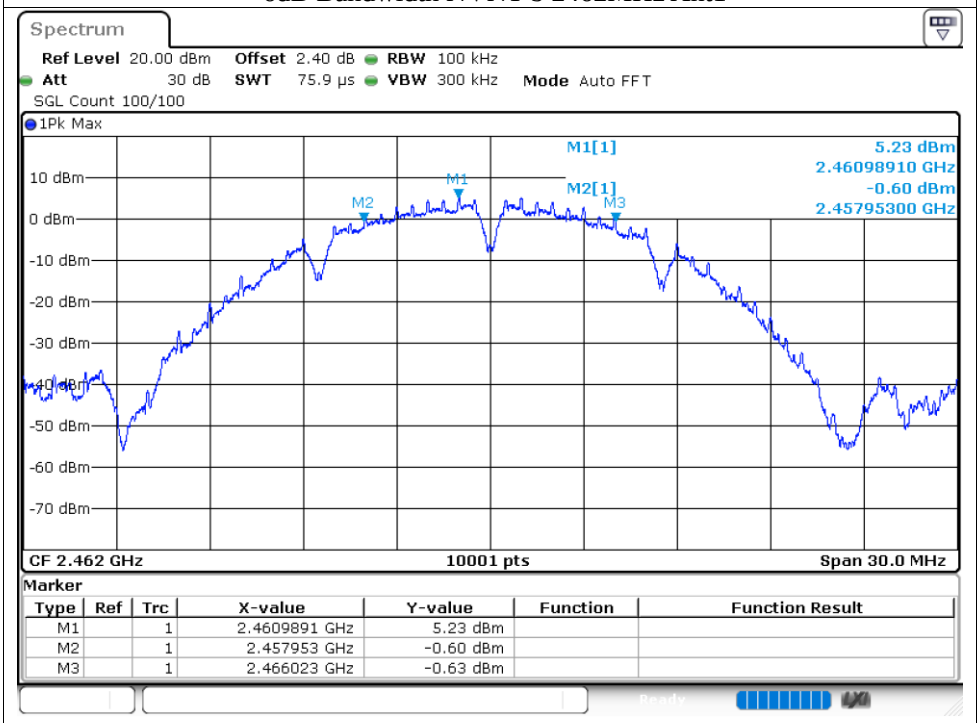
-6dB Bandwidth NVNT b 2412MHz Ant1



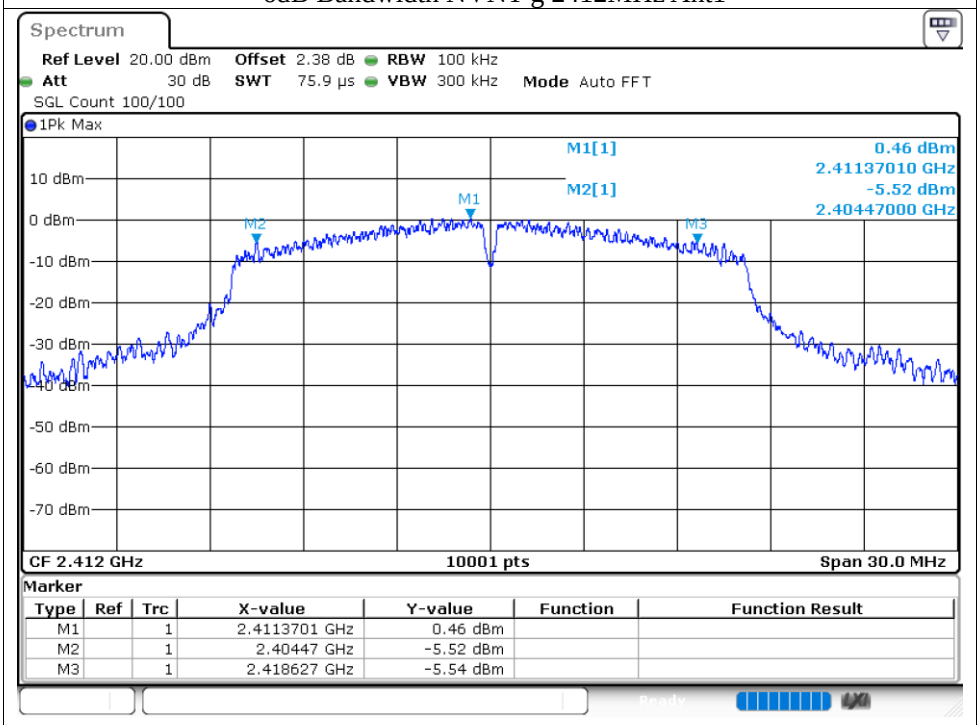
-6dB Bandwidth NVNT b 2437MHz Ant1



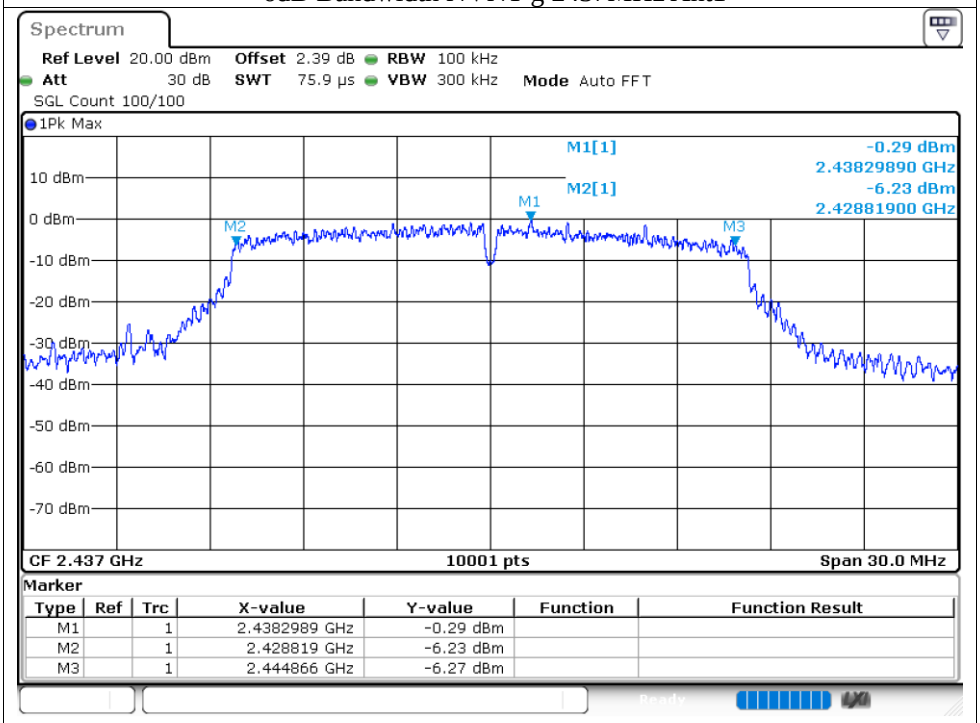
-6dB Bandwidth NVNT b 2462MHz Ant1



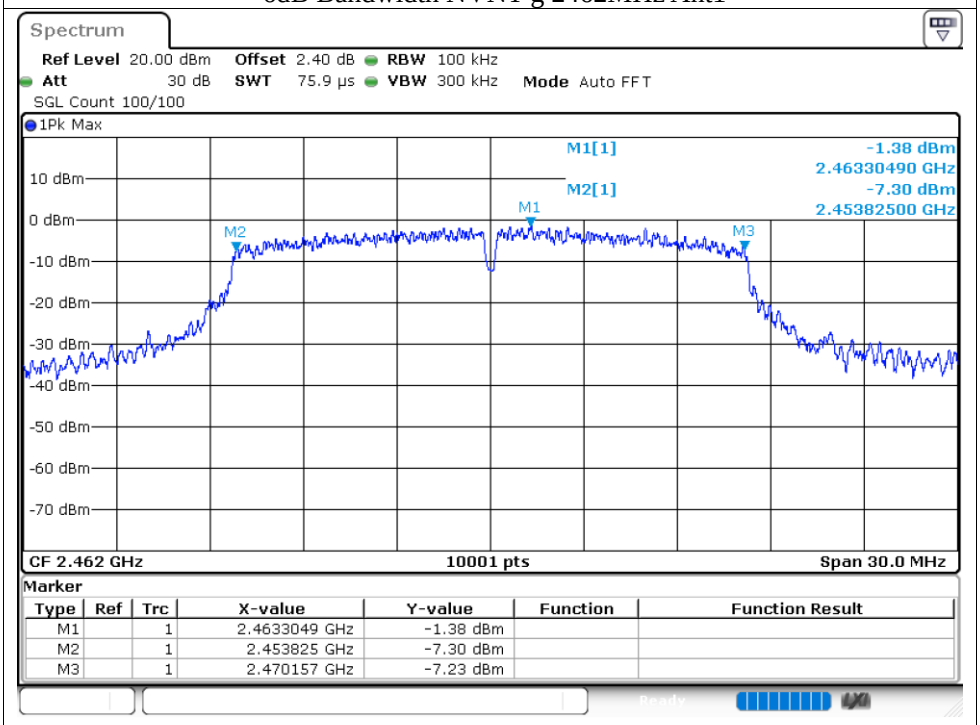
-6dB Bandwidth NVNT g 2412MHz Ant1



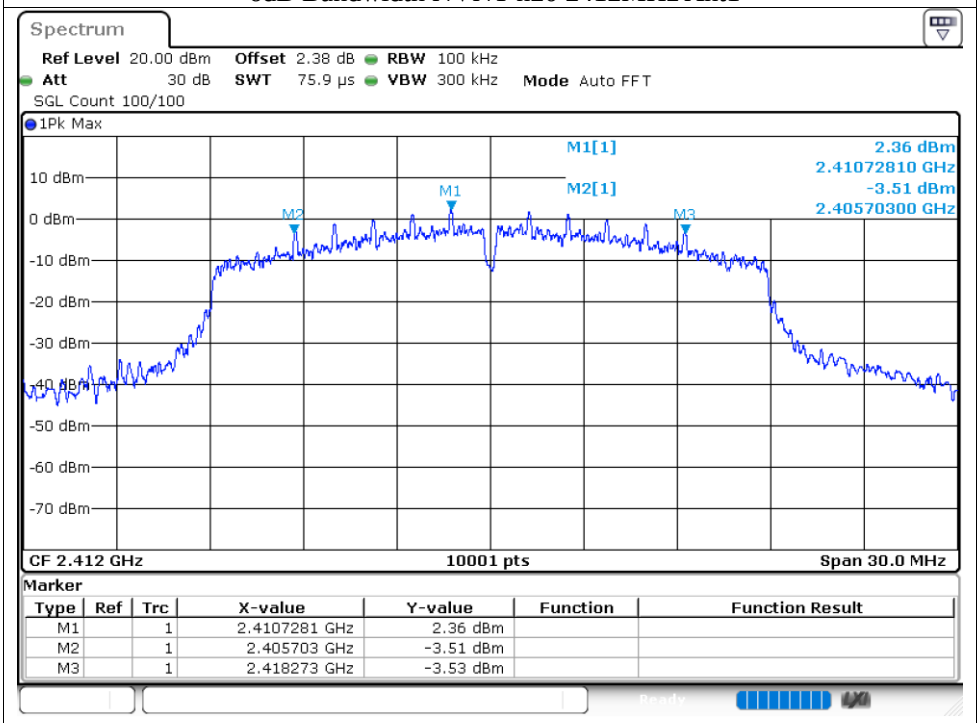
-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



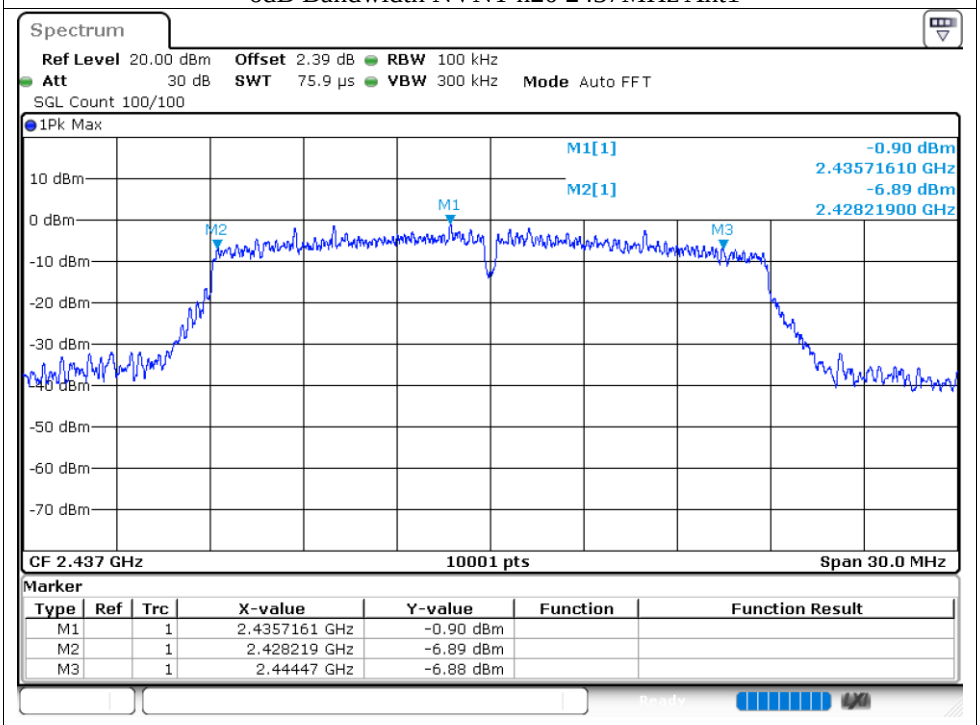
-6dB Bandwidth NVNT n20 2412MHz Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4107281 GHz	2.36 dBm		
M2		1	2.405703 GHz	-3.51 dBm		
M3		1	2.418273 GHz	-3.53 dBm		

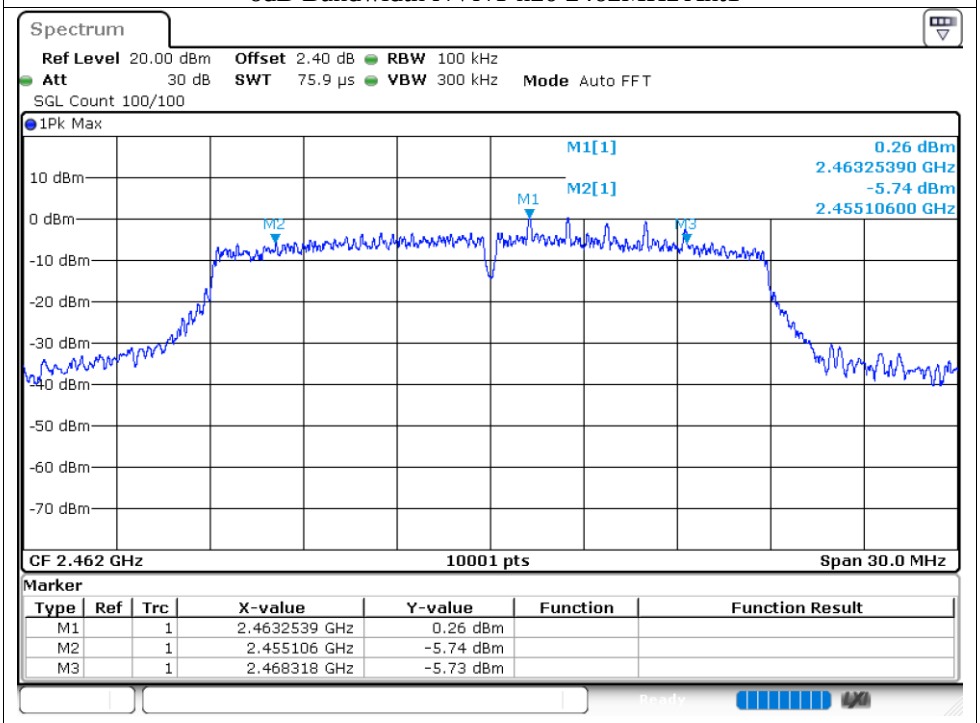
-6dB Bandwidth NVNT n20 2437MHz Ant1



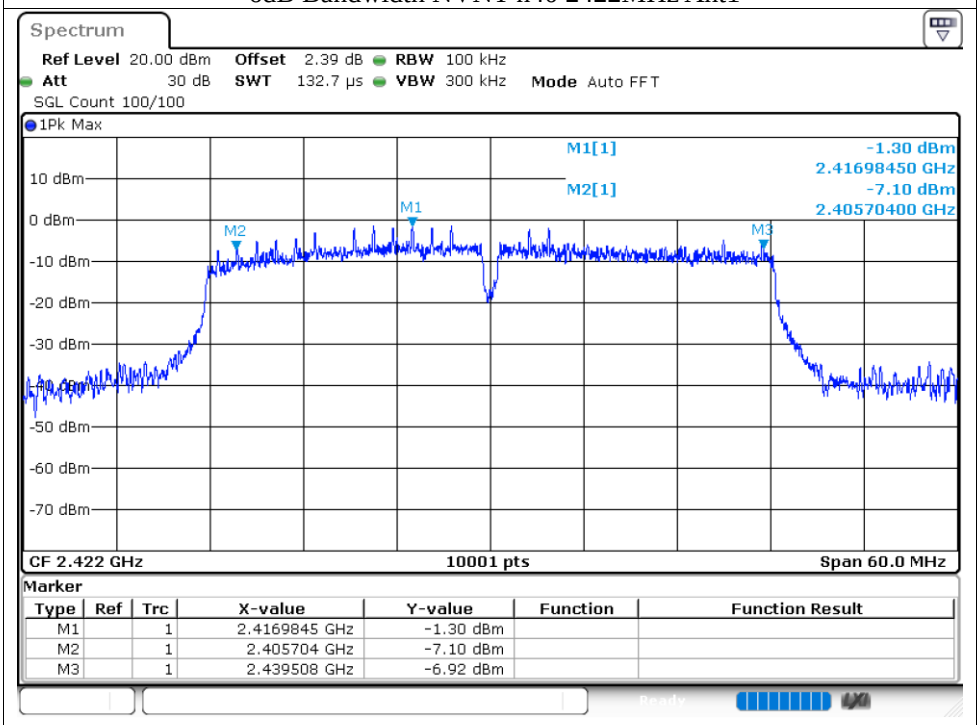
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4357161 GHz	-0.90 dBm		
M2		1	2.428219 GHz	-6.89 dBm		
M3		1	2.44447 GHz	-6.88 dBm		

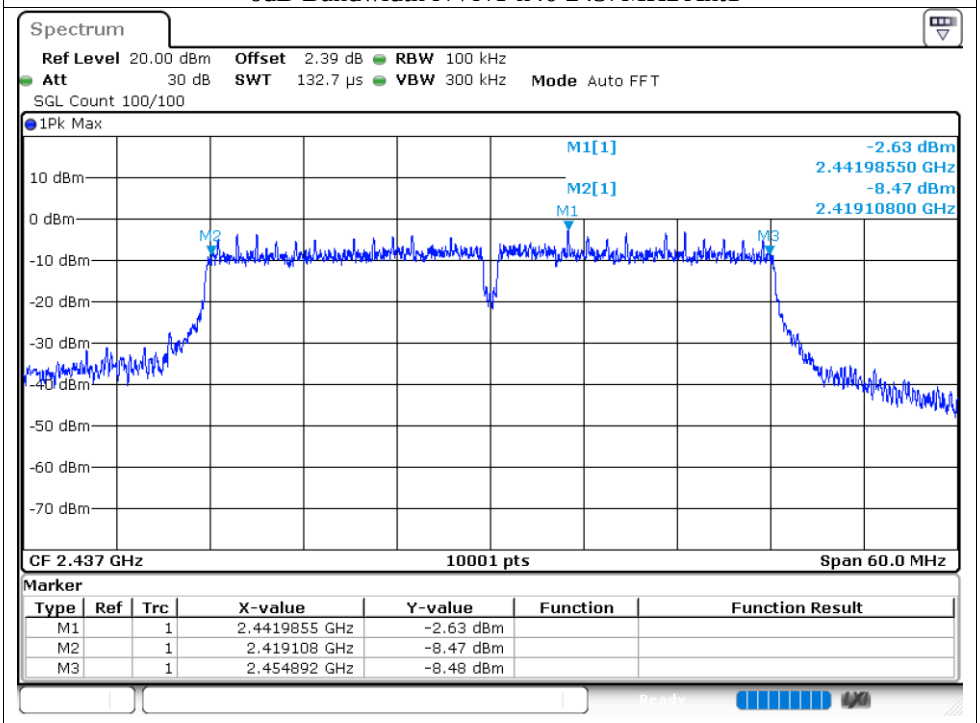
-6dB Bandwidth NVNT n20 2462MHz Ant1



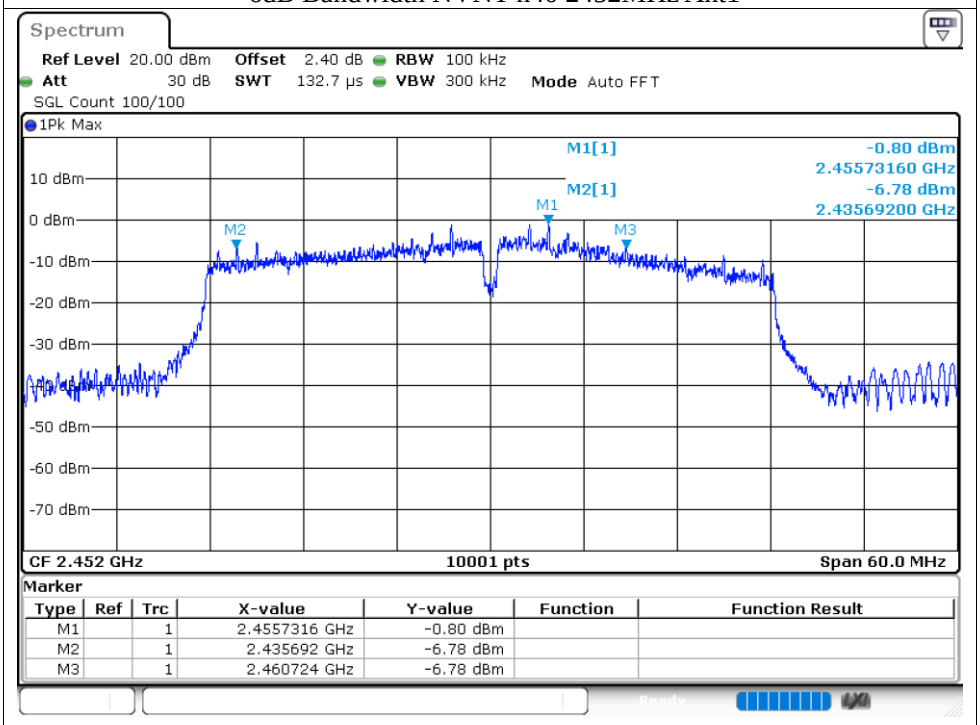
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

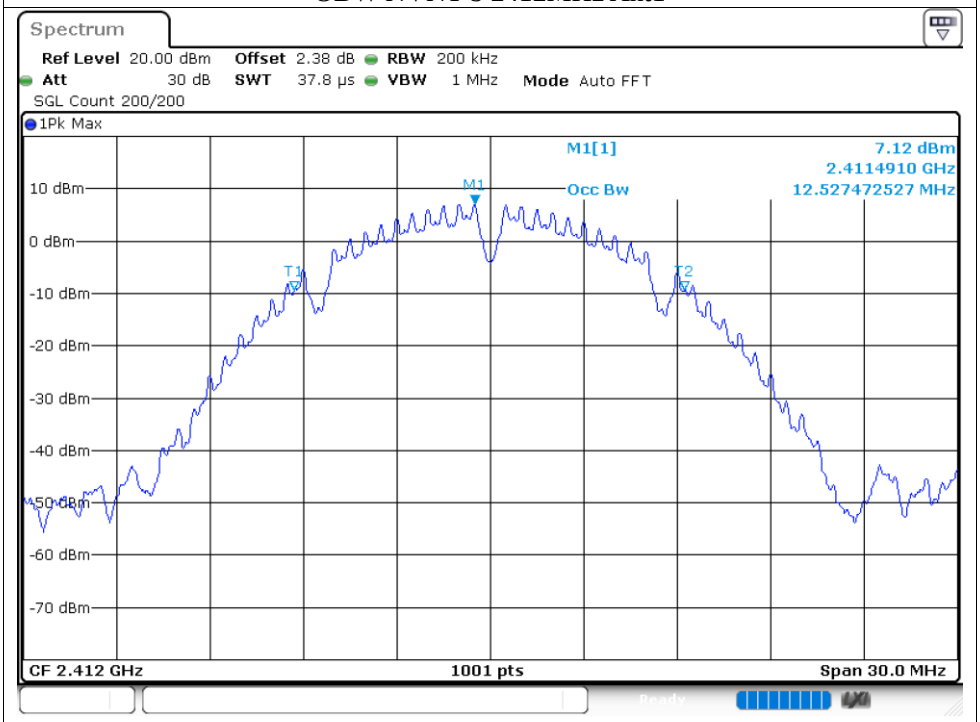


8.4 Occupied Channel Bandwidth

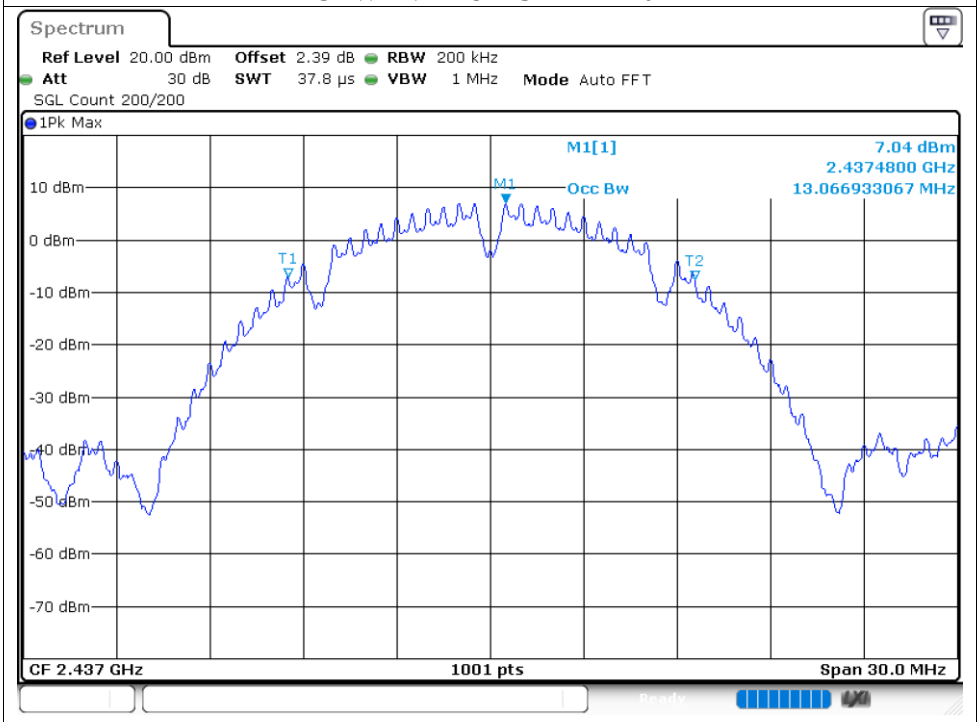
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.527
NVNT	b	2437	Ant1	13.067
NVNT	b	2462	Ant1	13.427
NVNT	g	2412	Ant1	16.066
NVNT	g	2437	Ant1	16.594
NVNT	g	2462	Ant1	16.561
NVNT	n20	2412	Ant1	17.11
NVNT	n20	2437	Ant1	17.698
NVNT	n20	2462	Ant1	17.536
NVNT	n40	2422	Ant1	36.074
NVNT	n40	2437	Ant1	36.524
NVNT	n40	2452	Ant1	35.69

Test Graphs

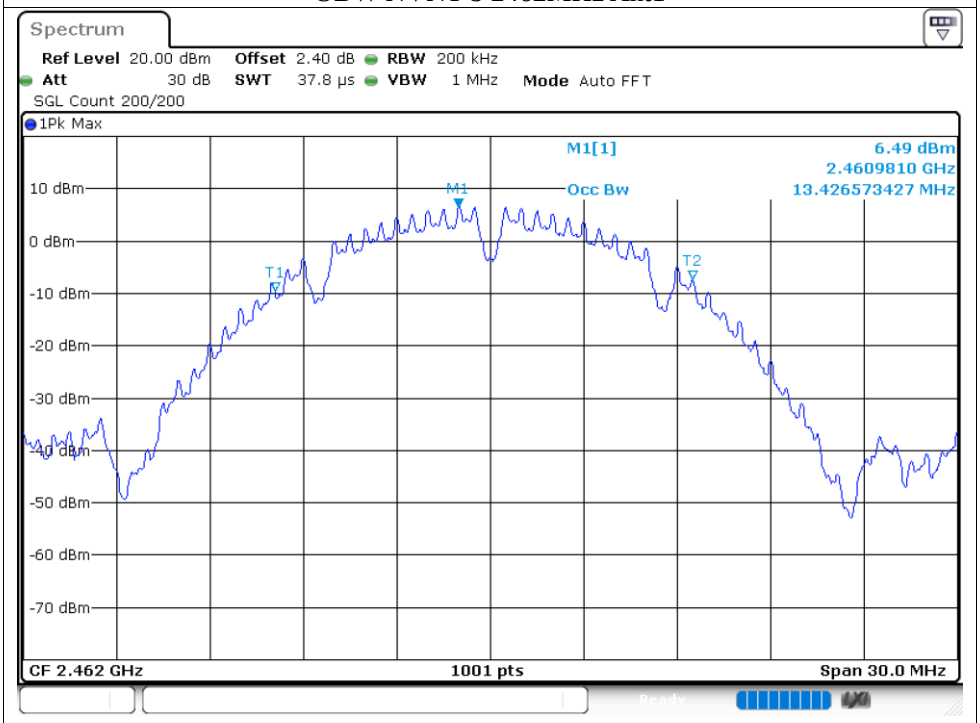
OBW NVNT b 2412MHz Ant1



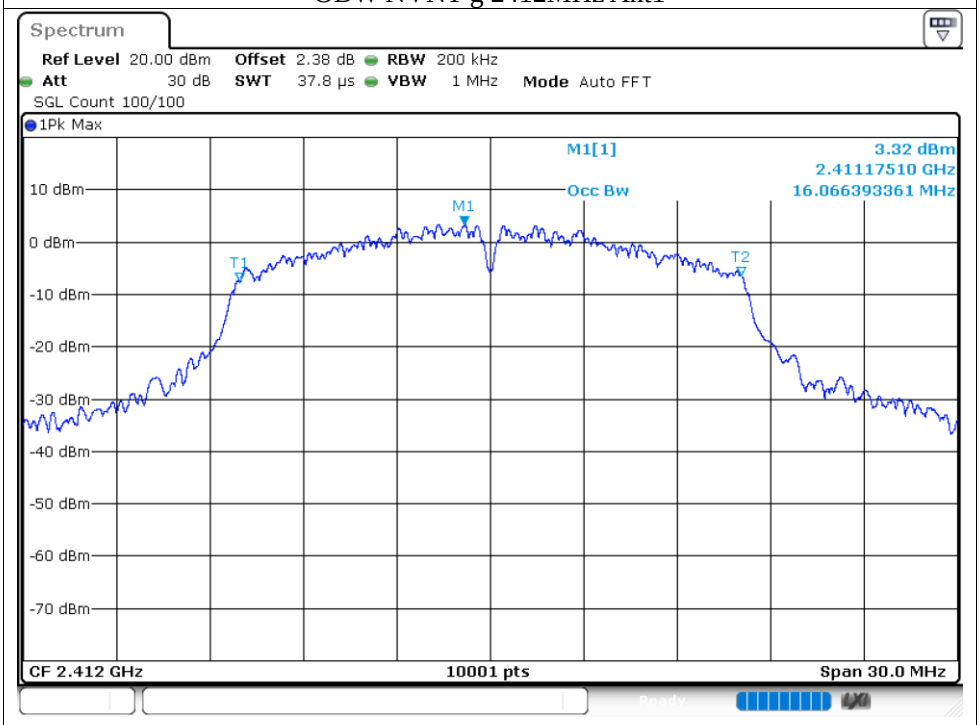
OBW NVNT b 2437MHz Ant1



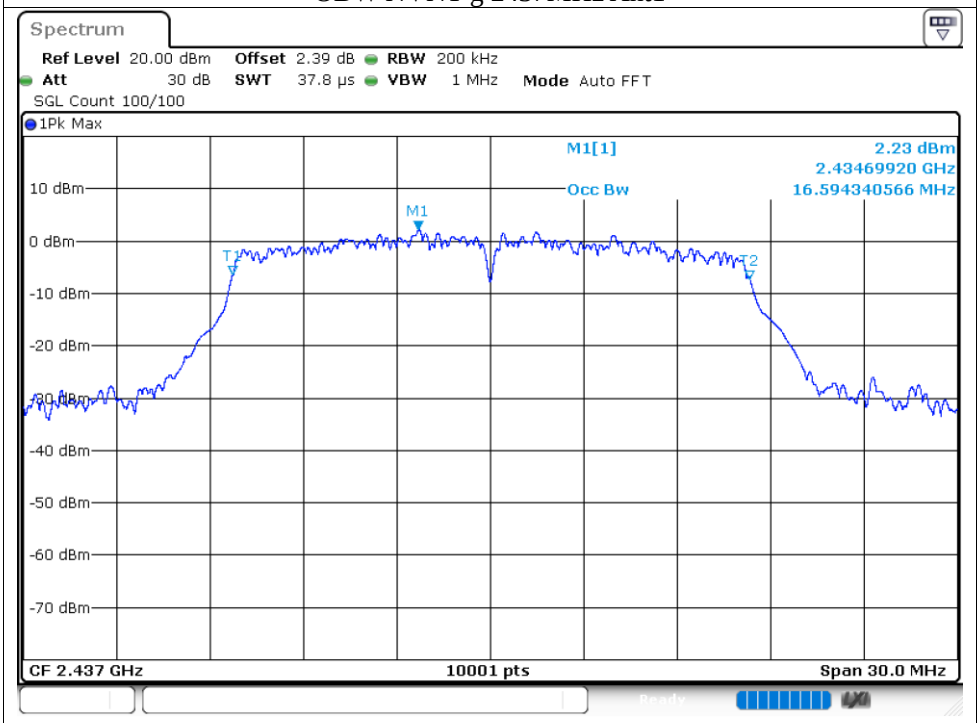
OBW NVNT b 2462MHz Ant1



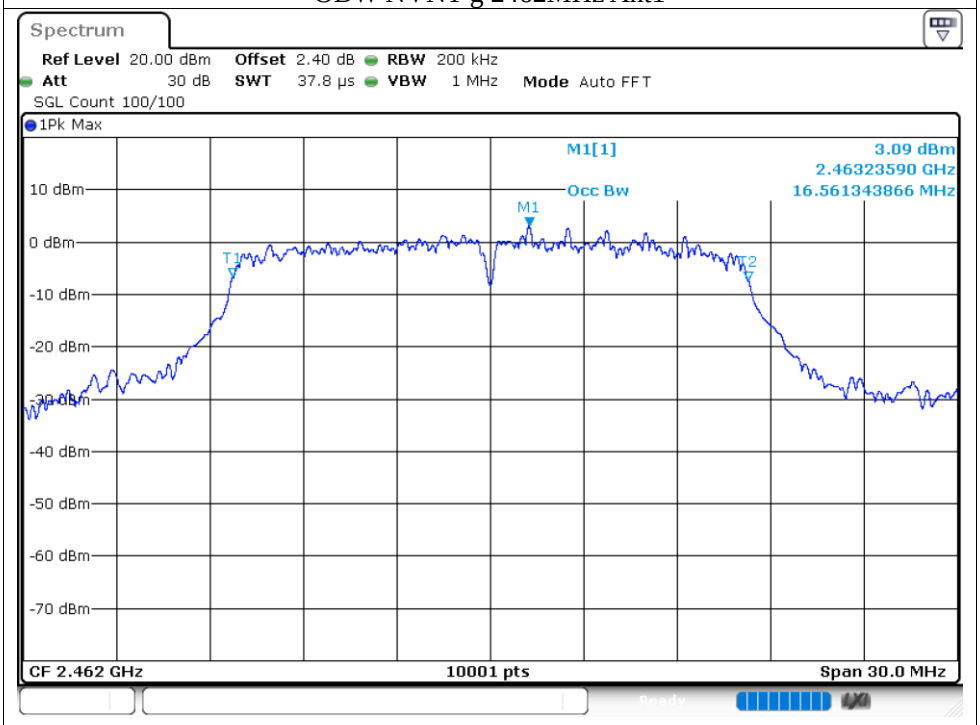
OBW NVNT g 2412MHz Ant1



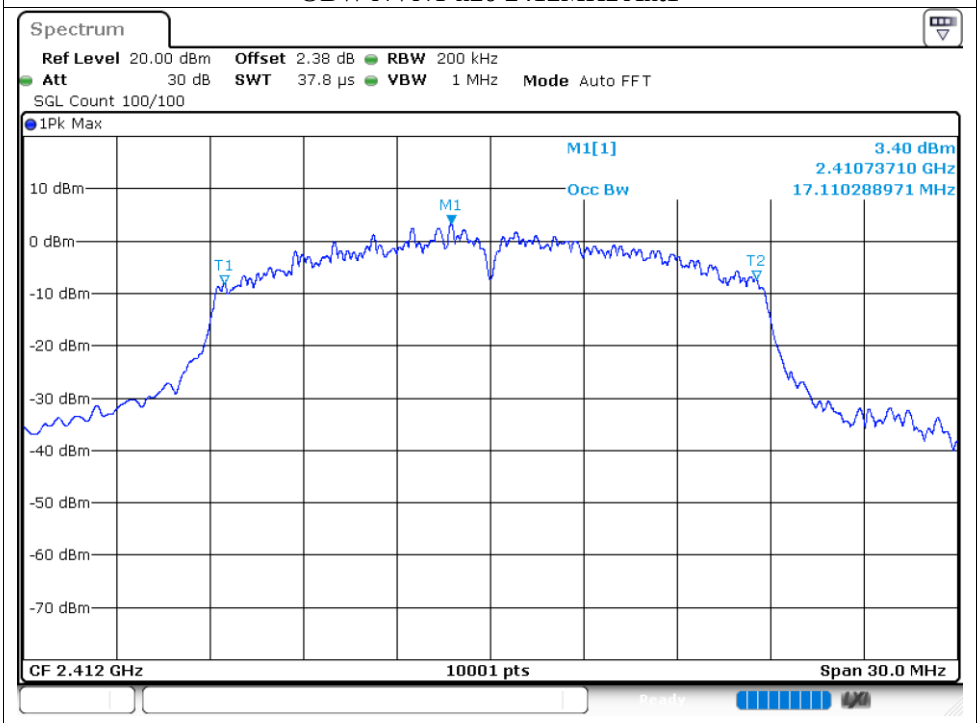
OBW NVNT g 2437MHz Ant1



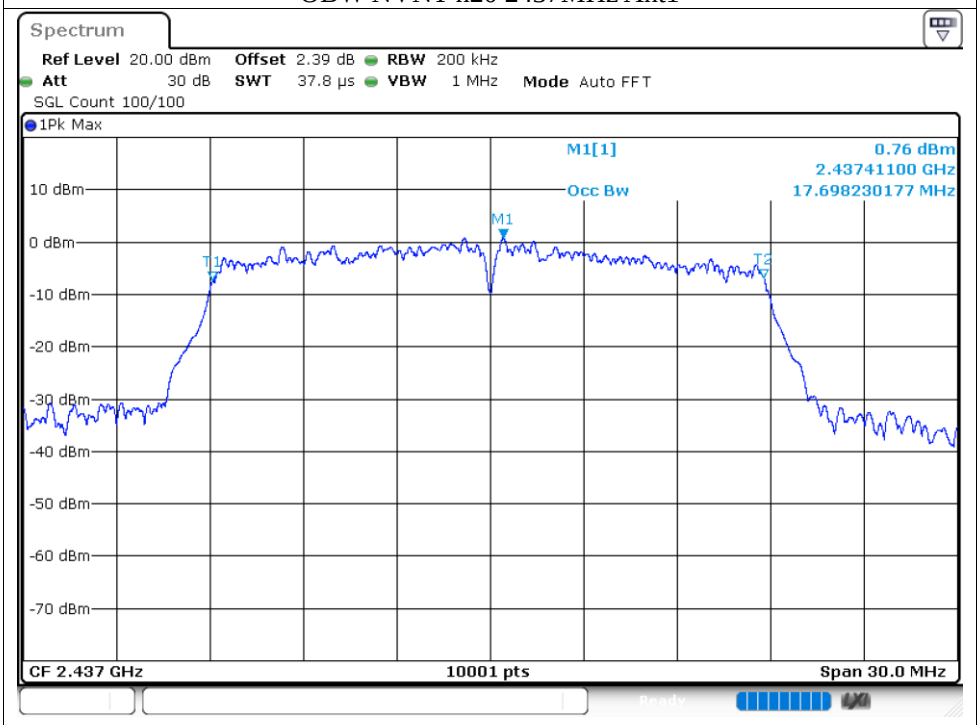
OBW NVNT g 2462MHz Ant1



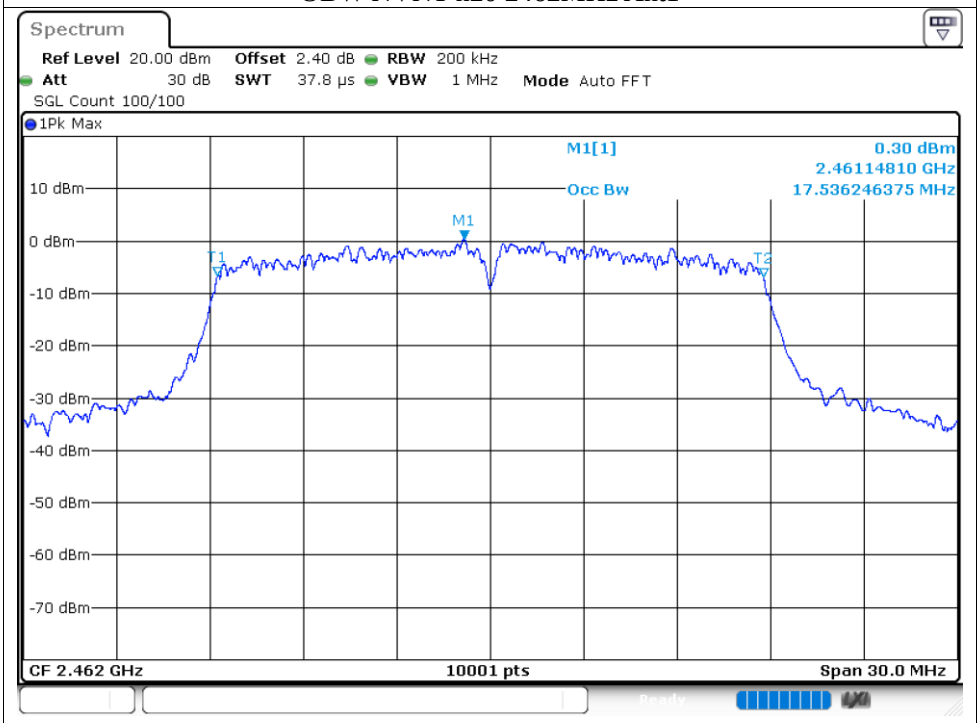
OBW NVNT n20 2412MHz Ant1



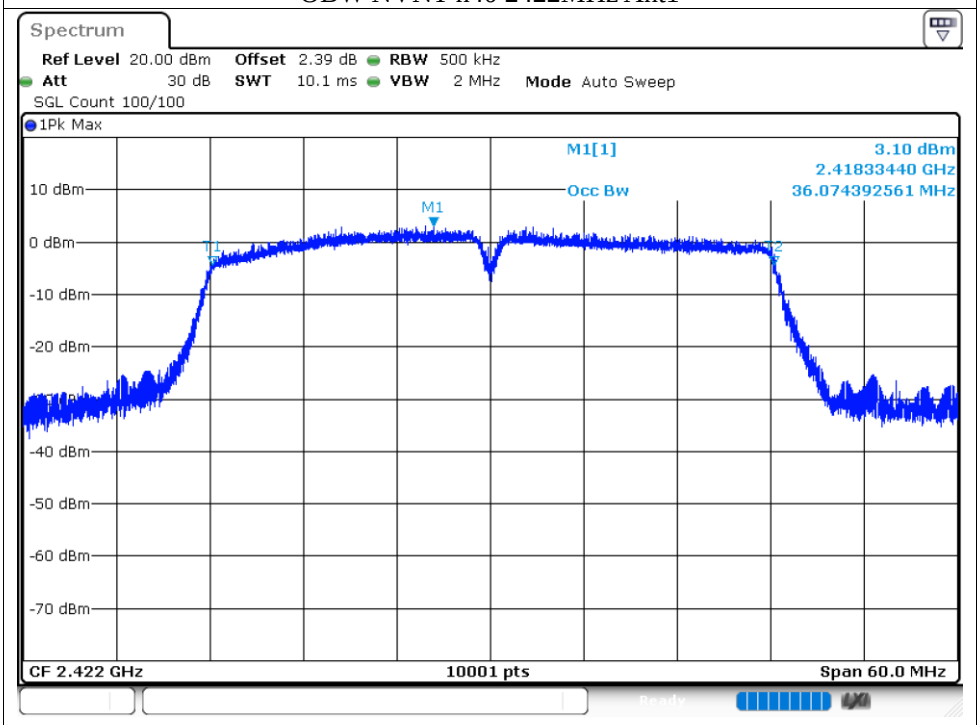
OBW NVNT n20 2437MHz Ant1



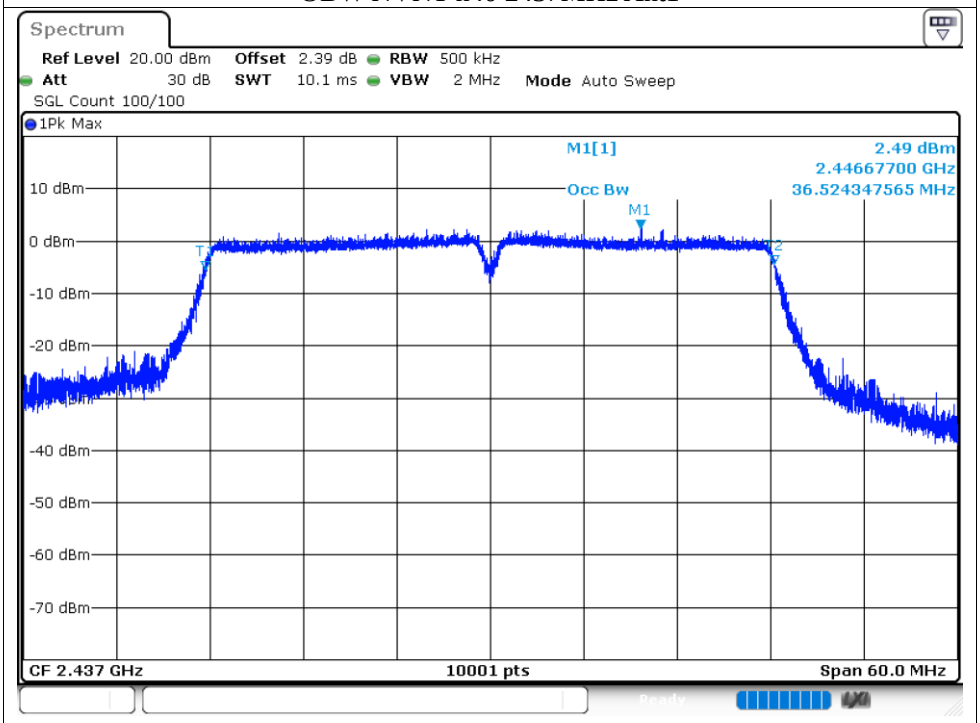
OBW NVNT n20 2462MHz Ant1



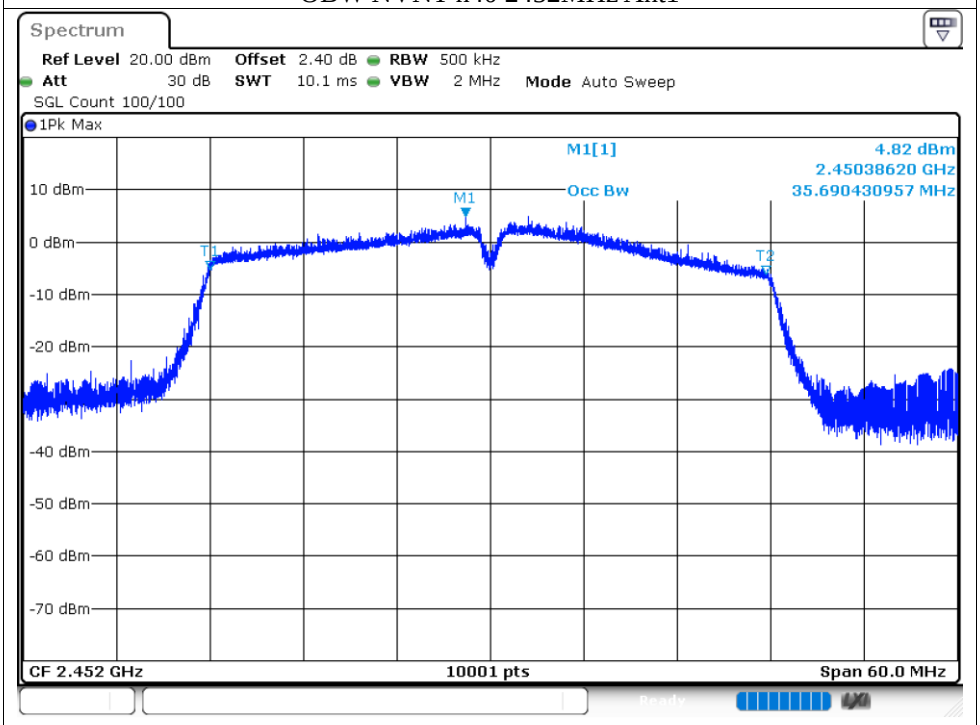
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1

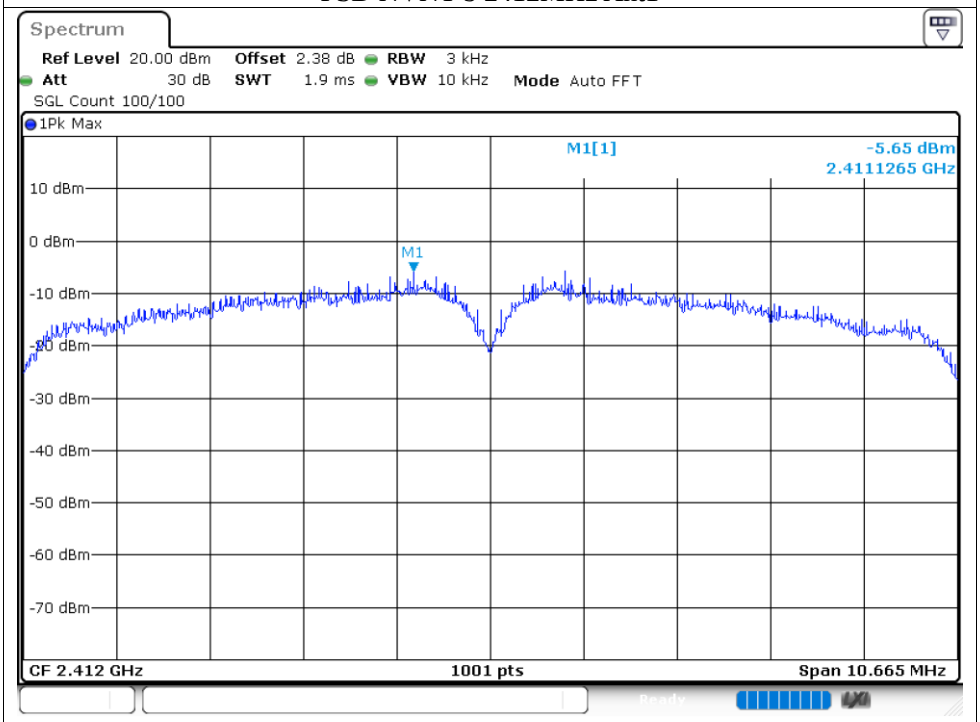


8.5 Maximum Power Spectral Density Level

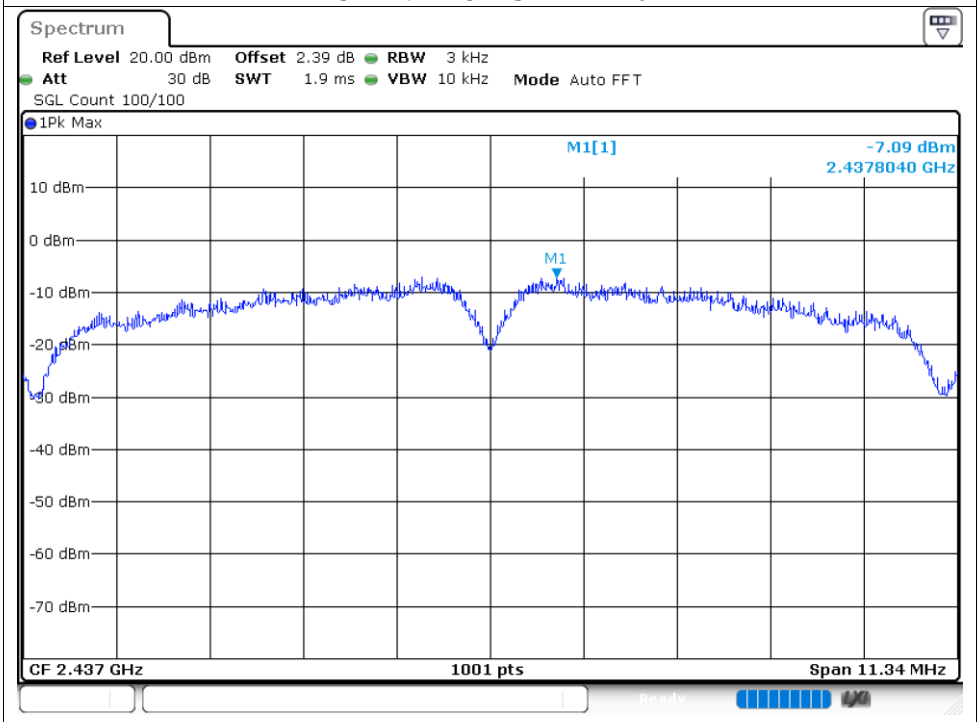
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-5.65	8	Pass
NVNT	b	2437	Ant1	-7.09	8	Pass
NVNT	b	2462	Ant1	-7.32	8	Pass
NVNT	g	2412	Ant1	-9.89	8	Pass
NVNT	g	2437	Ant1	-10.33	8	Pass
NVNT	g	2462	Ant1	-11.35	8	Pass
NVNT	n20	2412	Ant1	-11.58	8	Pass
NVNT	n20	2437	Ant1	-12.25	8	Pass
NVNT	n20	2462	Ant1	-13.29	8	Pass
NVNT	n40	2422	Ant1	-15.35	8	Pass
NVNT	n40	2437	Ant1	-16.24	8	Pass
NVNT	n40	2452	Ant1	-14.08	8	Pass

Test Graphs

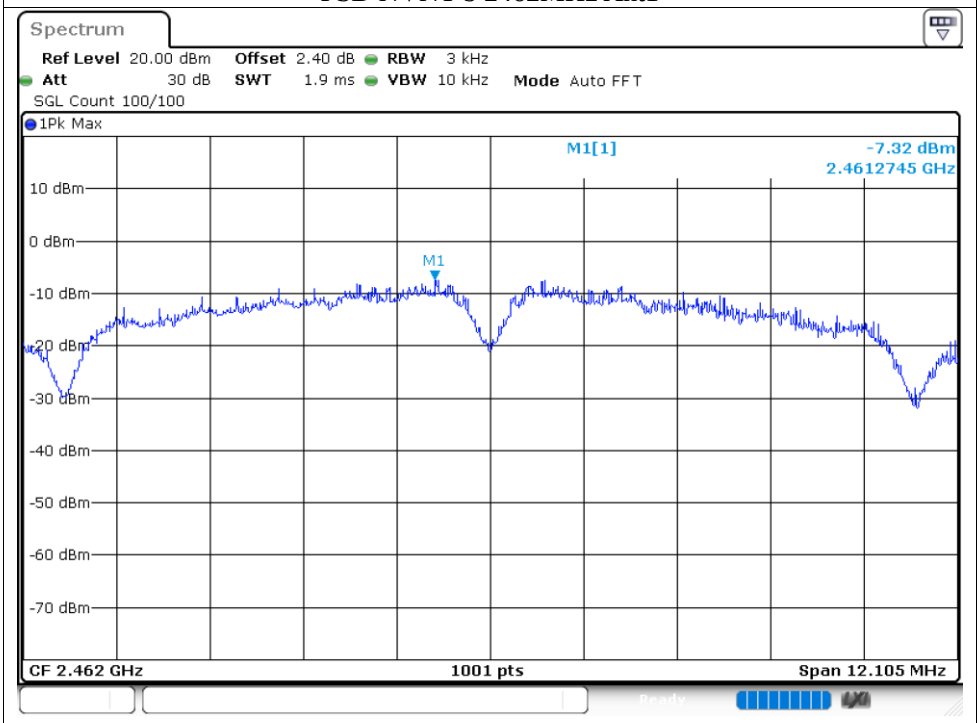
PSD NVNT b 2412MHz Ant1



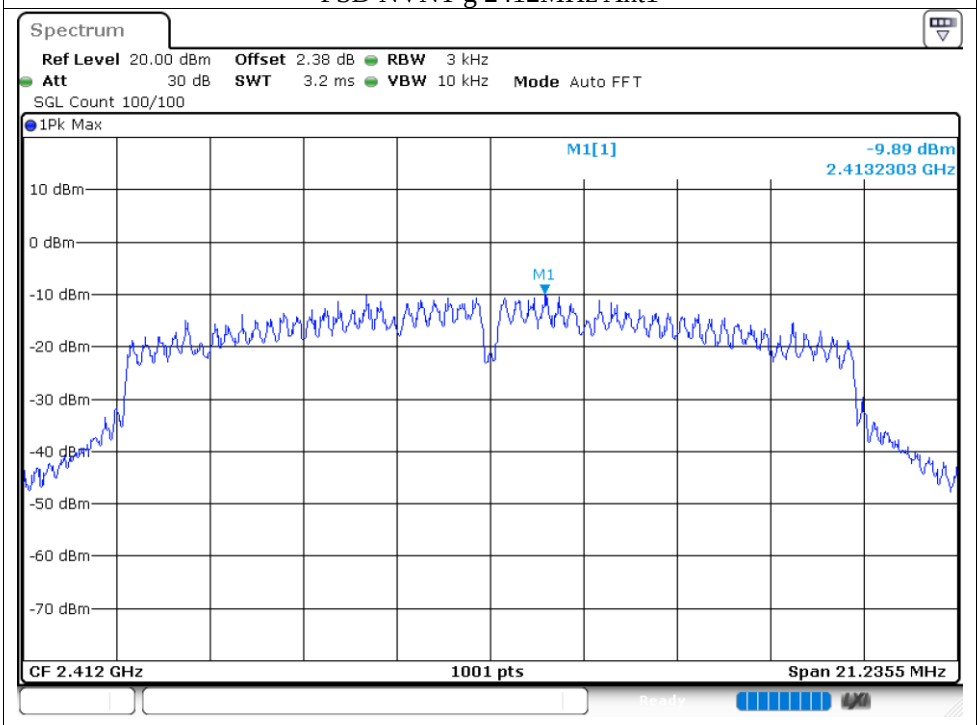
PSD NVNT b 2437MHz Ant1



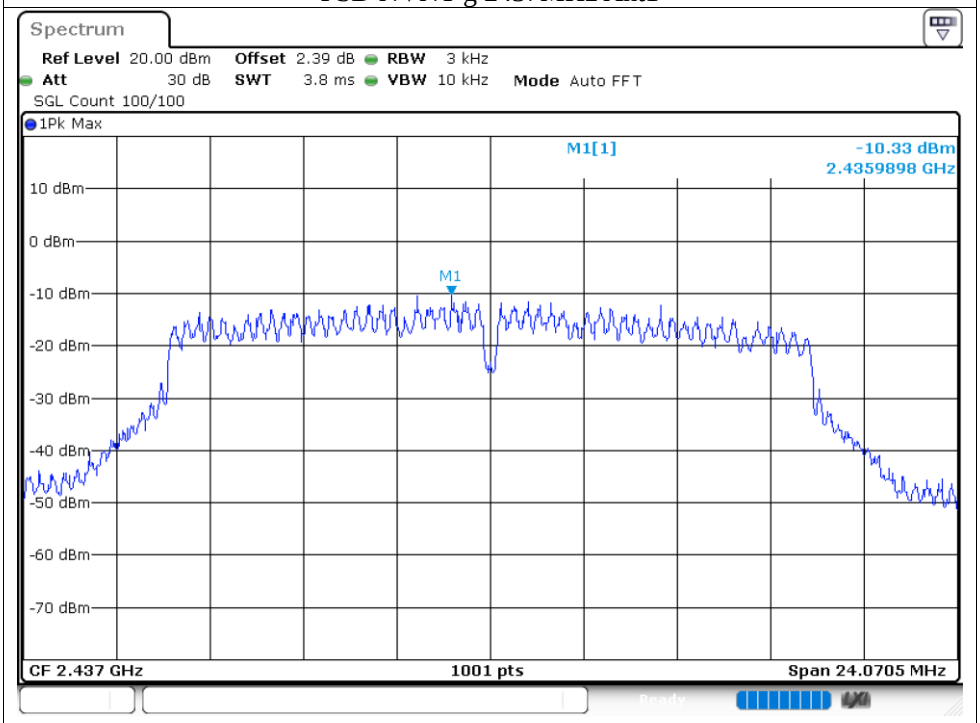
PSD NVNT b 2462MHz Ant1



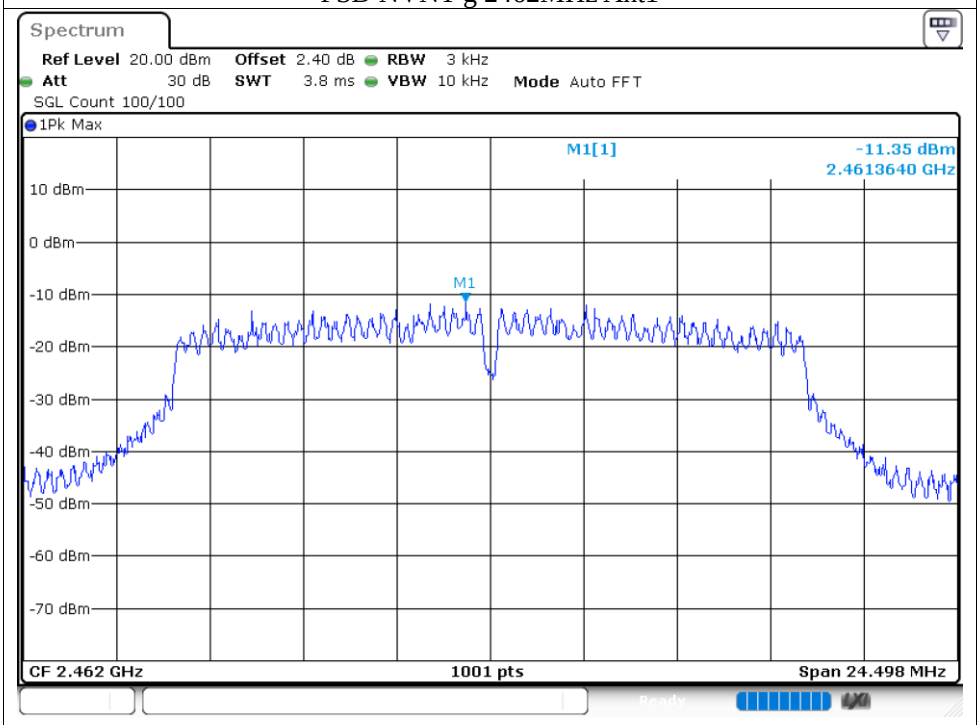
PSD NVNT g 2412MHz Ant1



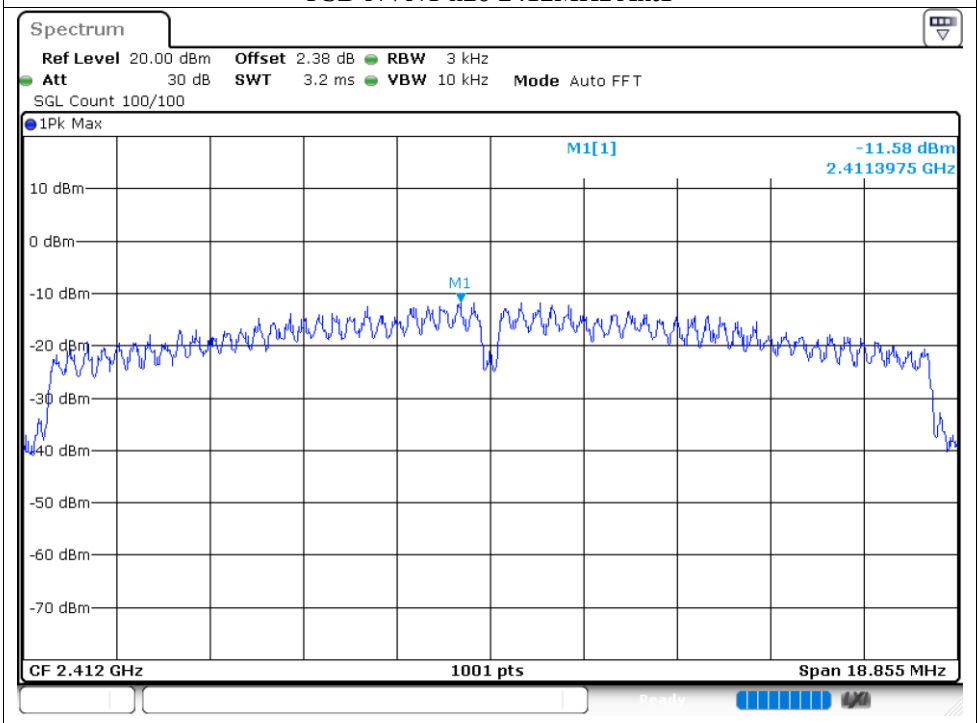
PSD NVNT g 2437MHz Ant1



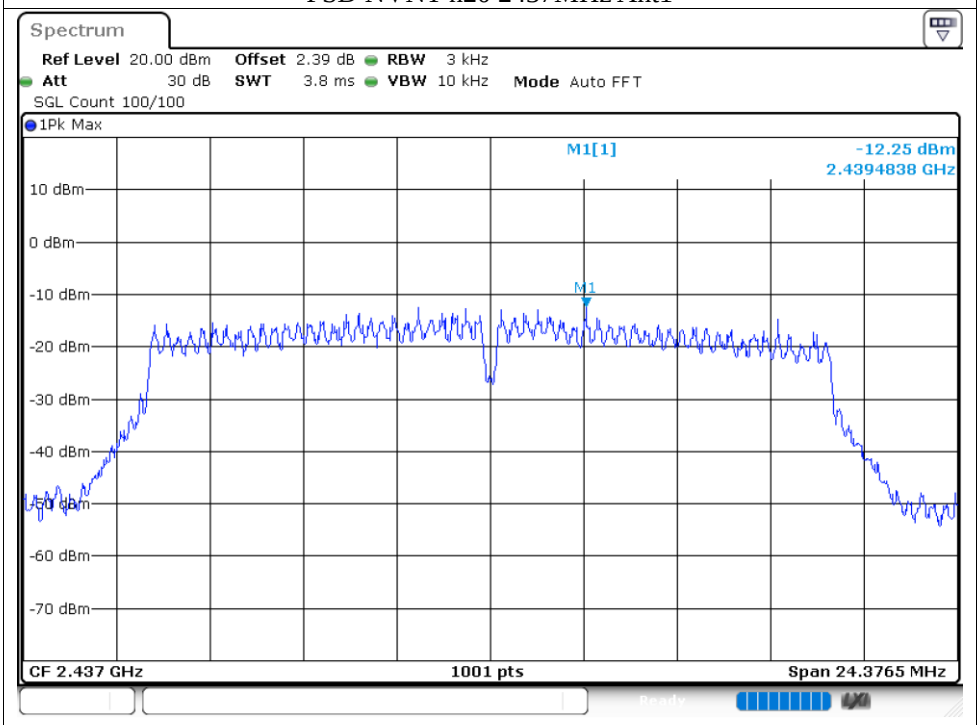
PSD NVNT g 2462MHz Ant1



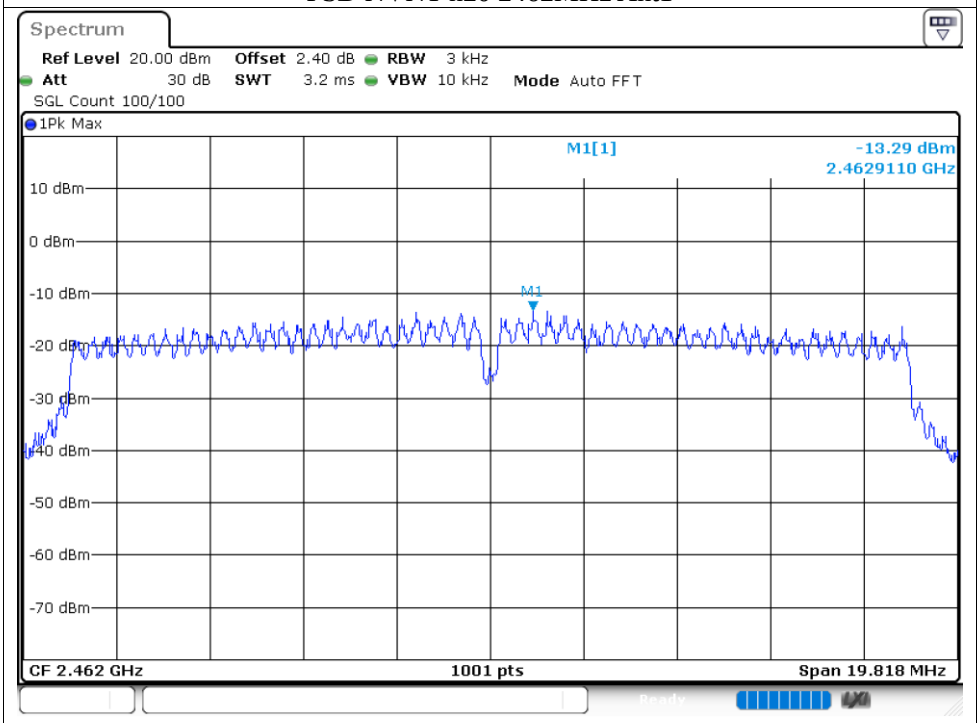
PSD NVNT n20 2412MHz Ant1



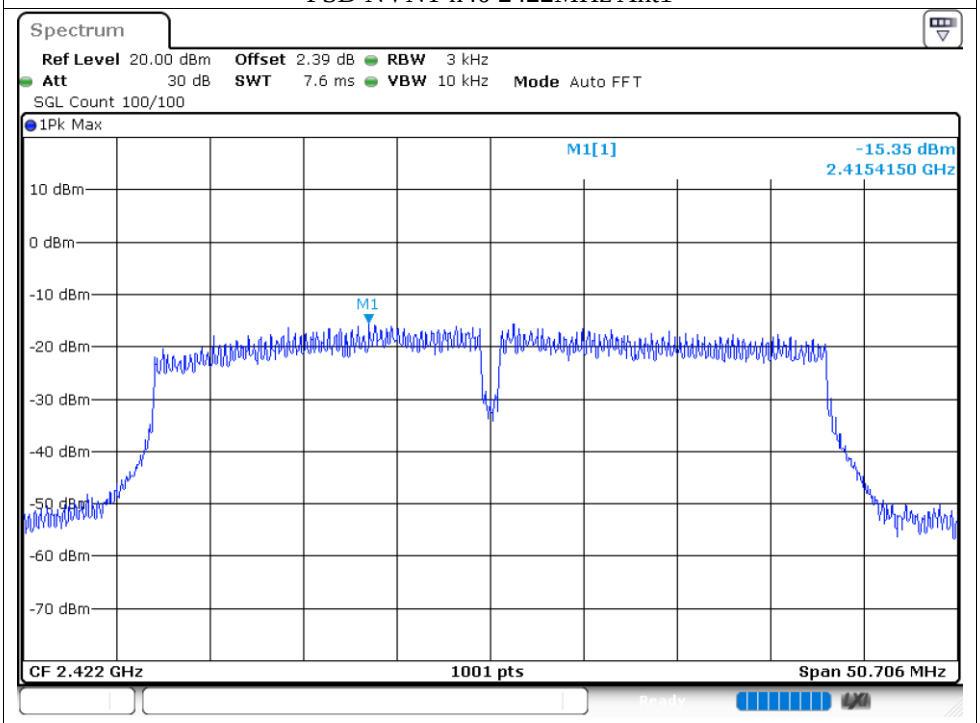
PSD NVNT n20 2437MHz Ant1



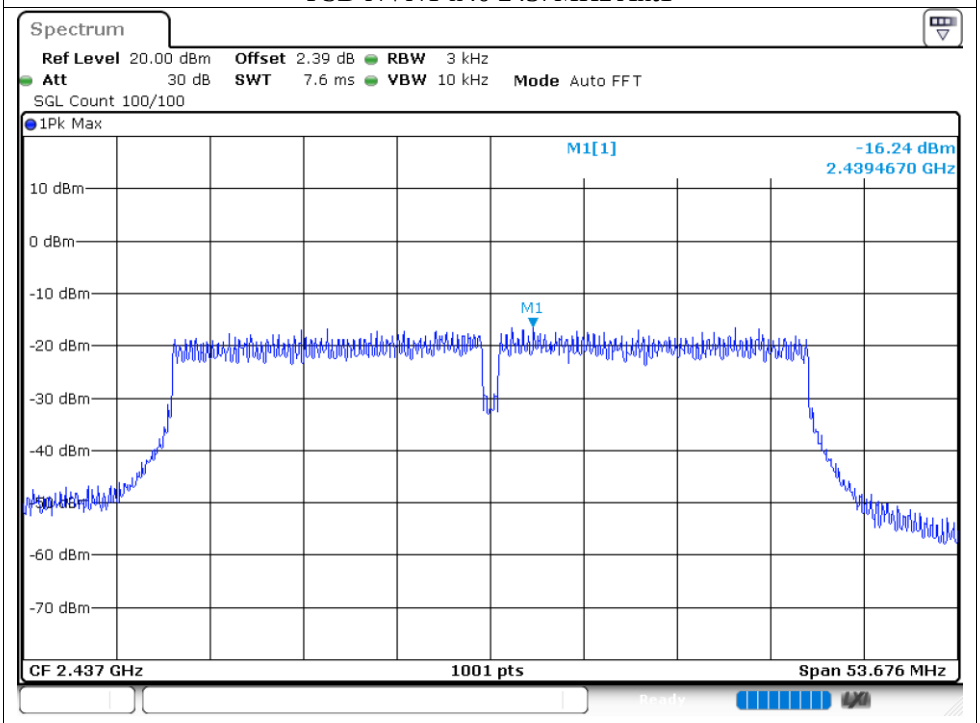
PSD NVNT n20 2462MHz Ant1



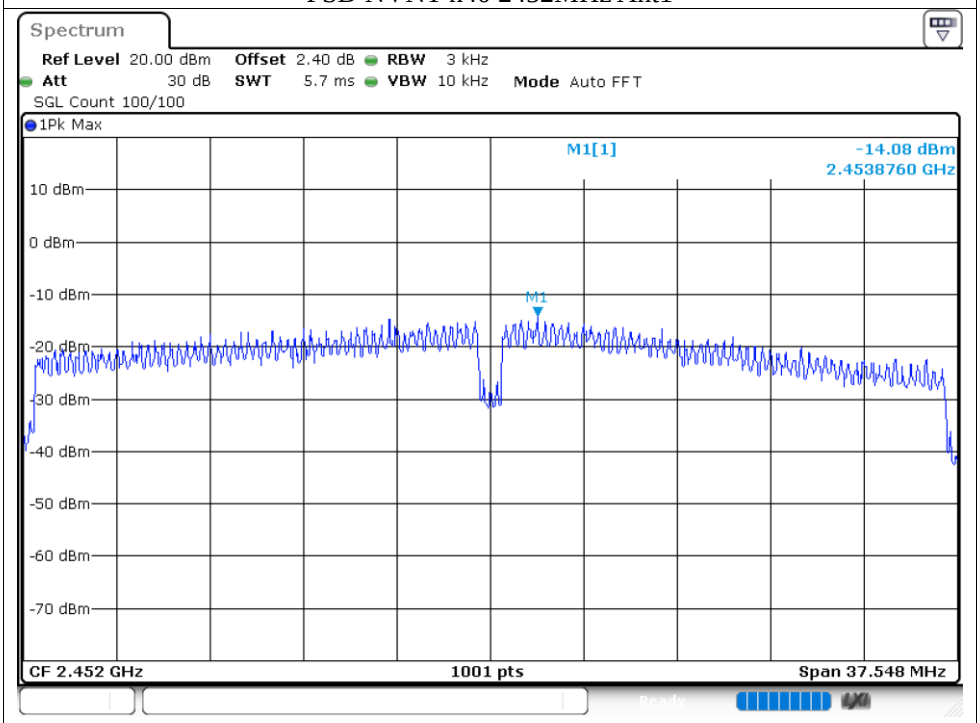
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



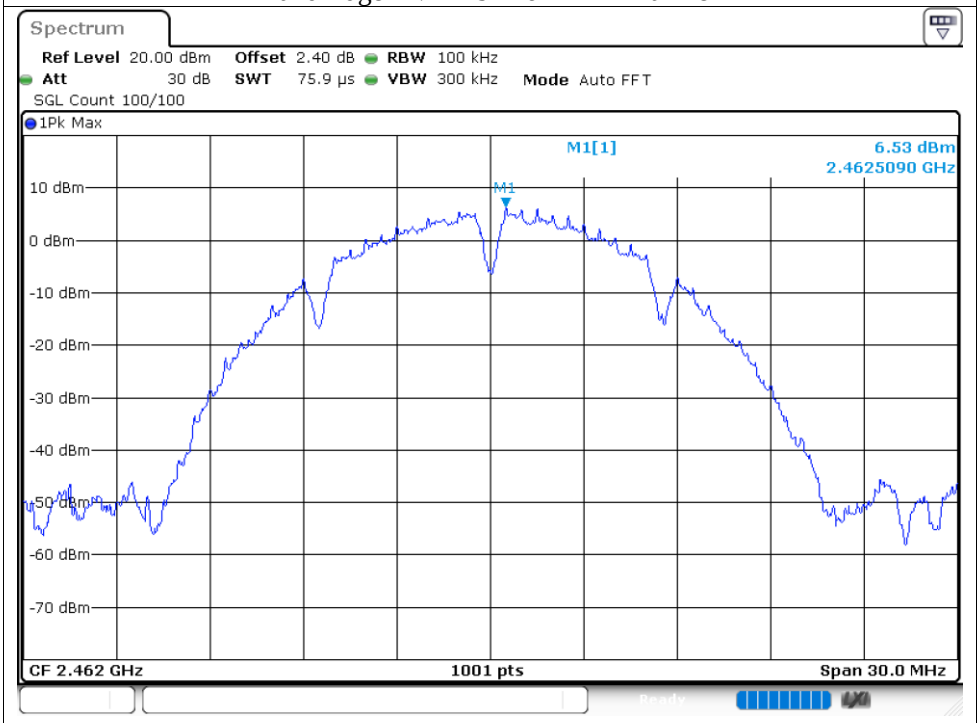
PSD NVNT n40 2452MHz Ant1



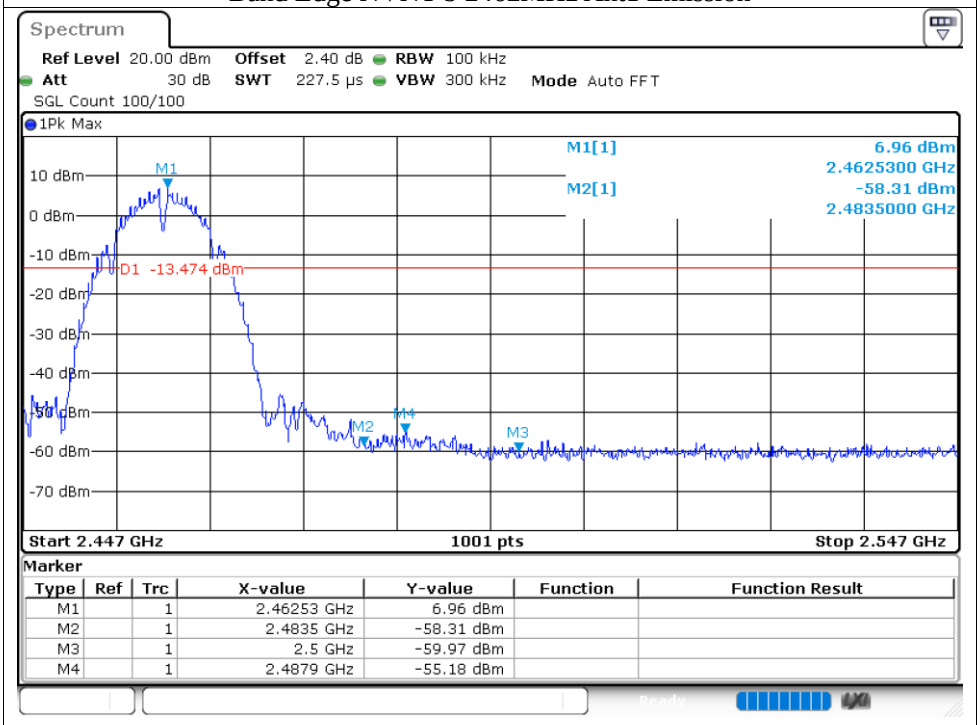
8.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.14	-20	Pass
NVNT	b	2462	Ant1	-61.7	-20	Pass
NVNT	g	2412	Ant1	-50.01	-20	Pass
NVNT	g	2462	Ant1	-52.62	-20	Pass
NVNT	n20	2412	Ant1	-49	-20	Pass
NVNT	n20	2462	Ant1	-50.82	-20	Pass
NVNT	n40	2422	Ant1	-40.35	-20	Pass
NVNT	n40	2452	Ant1	-38.33	-20	Pass

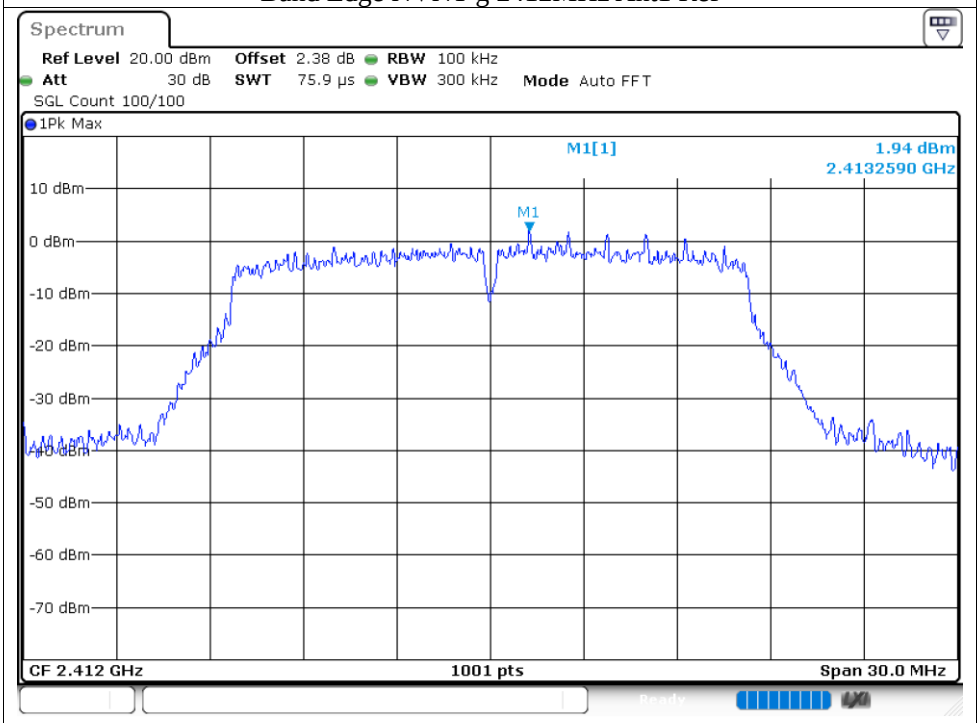
Band Edge NVNT b 2462MHz Ant1 Ref



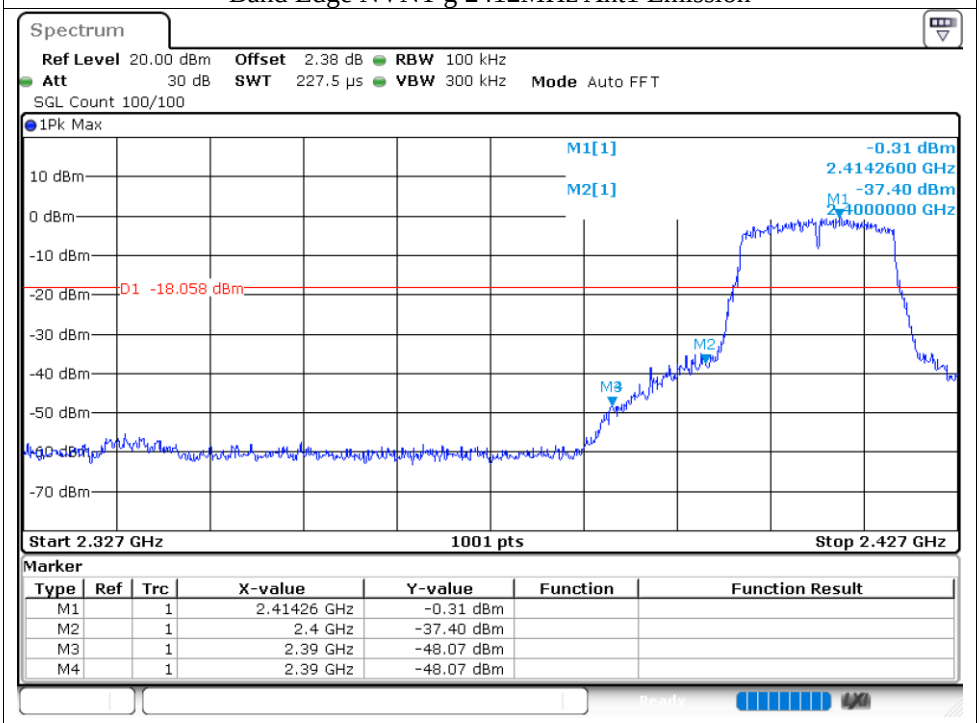
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref

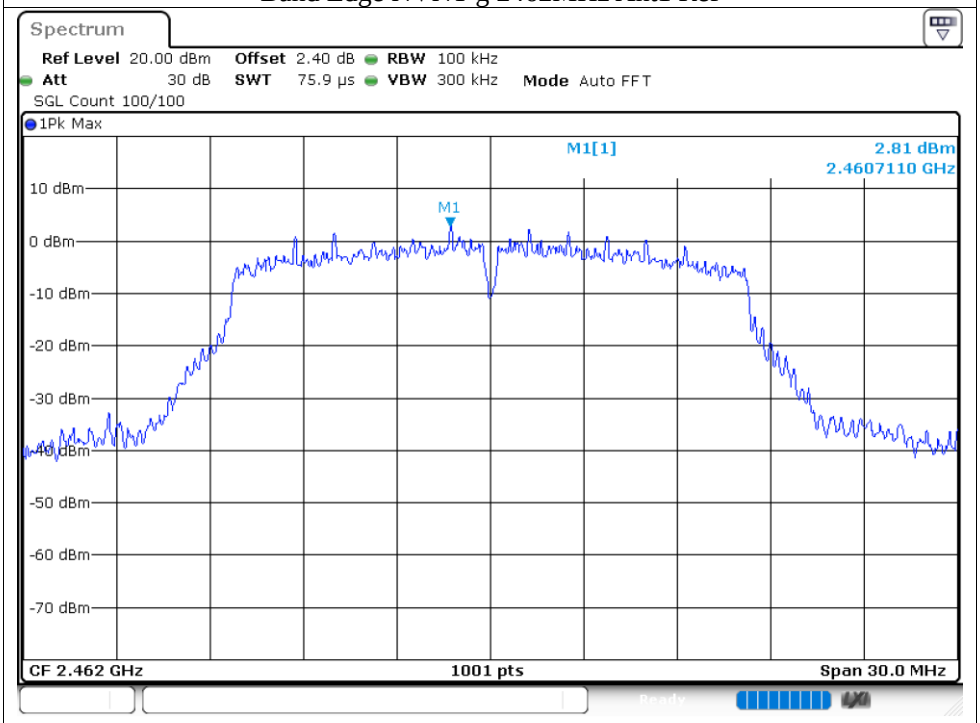


Band Edge NVNT g 2412MHz Ant1 Emission

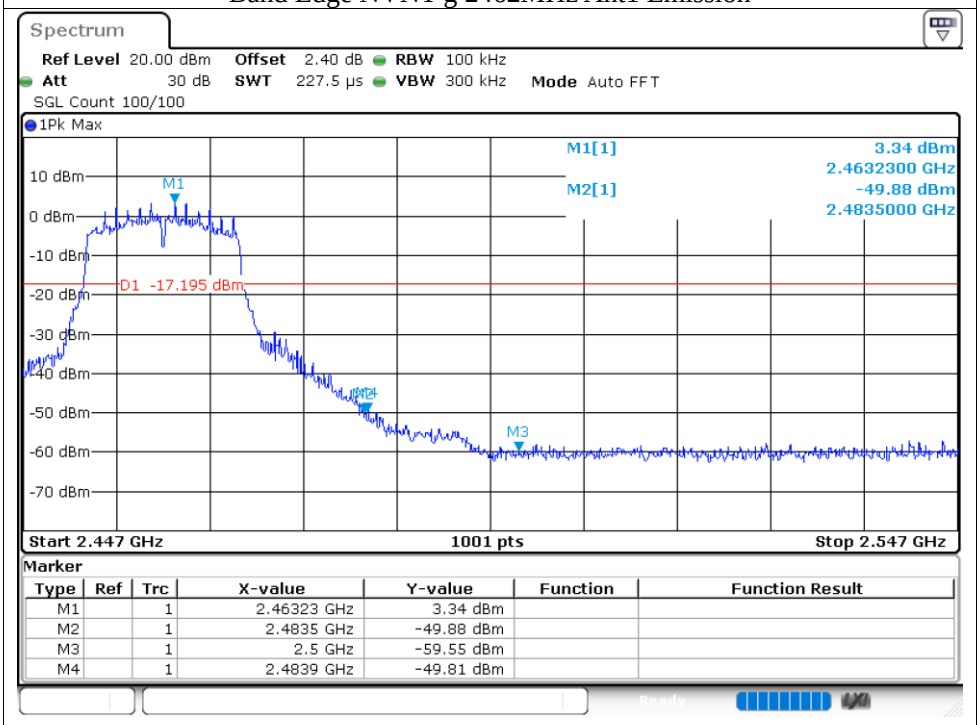


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41426 GHz	-0.31 dBm		
M2		1	2.4 GHz	-37.40 dBm		
M3		1	2.39 GHz	-48.07 dBm		
M4		1	2.39 GHz	-48.07 dBm		

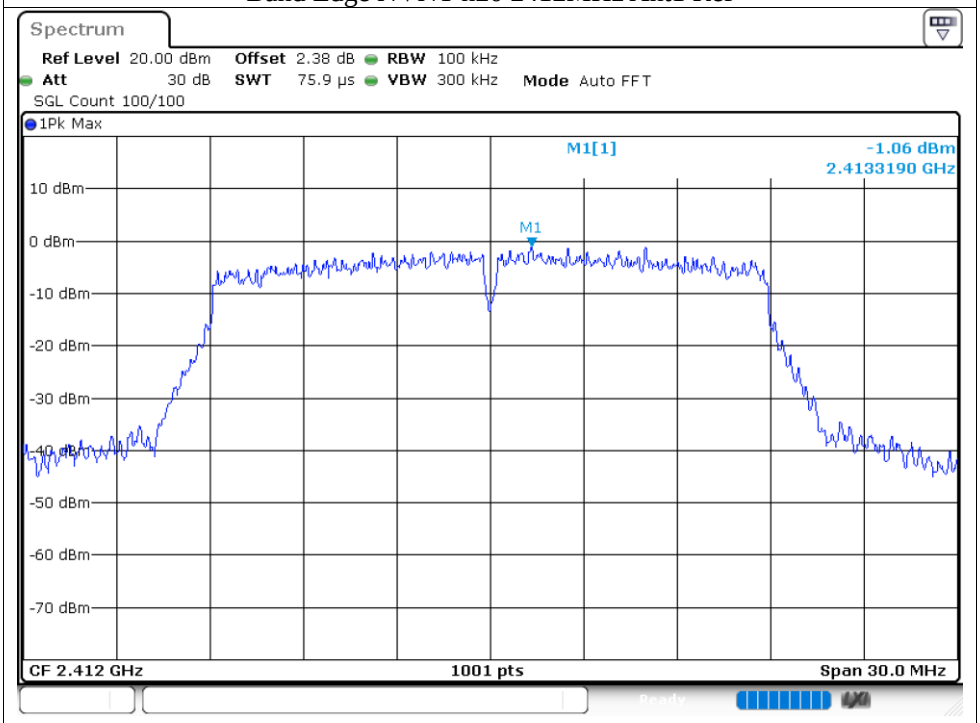
Band Edge NVNT g 2462MHz Ant1 Ref



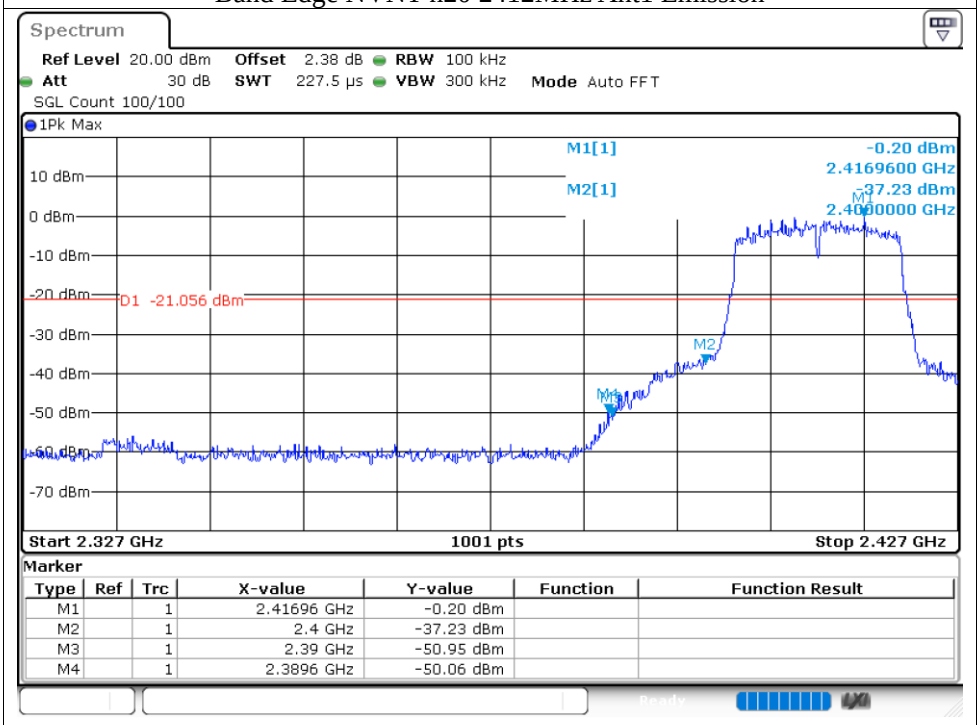
Band Edge NVNT g 2462MHz Ant1 Emission



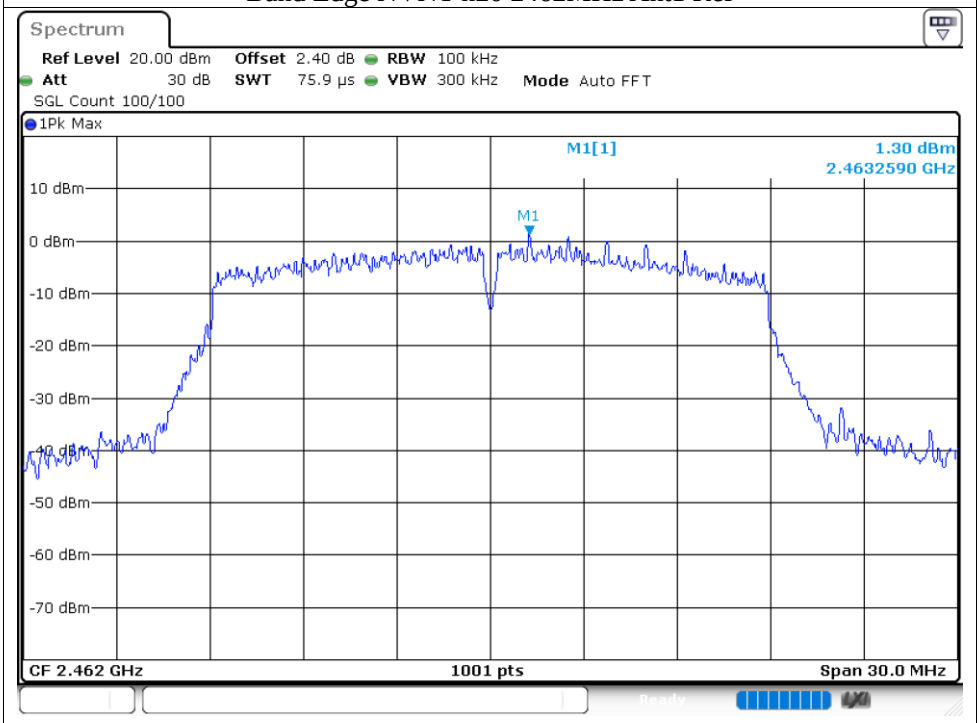
Band Edge NVNT n20 2412MHz Ant1 Ref



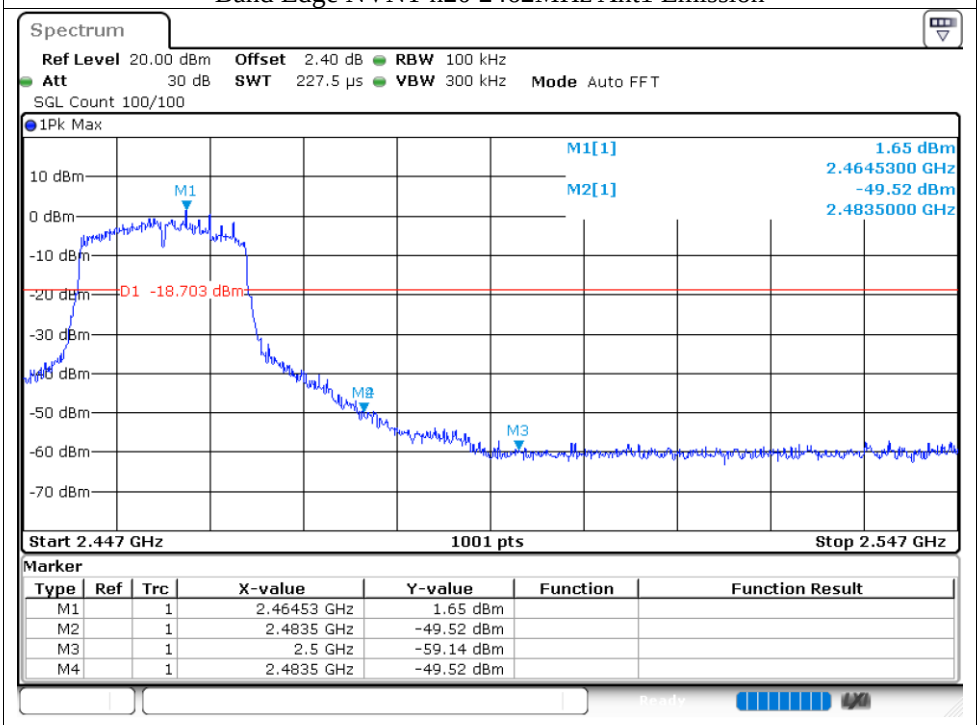
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



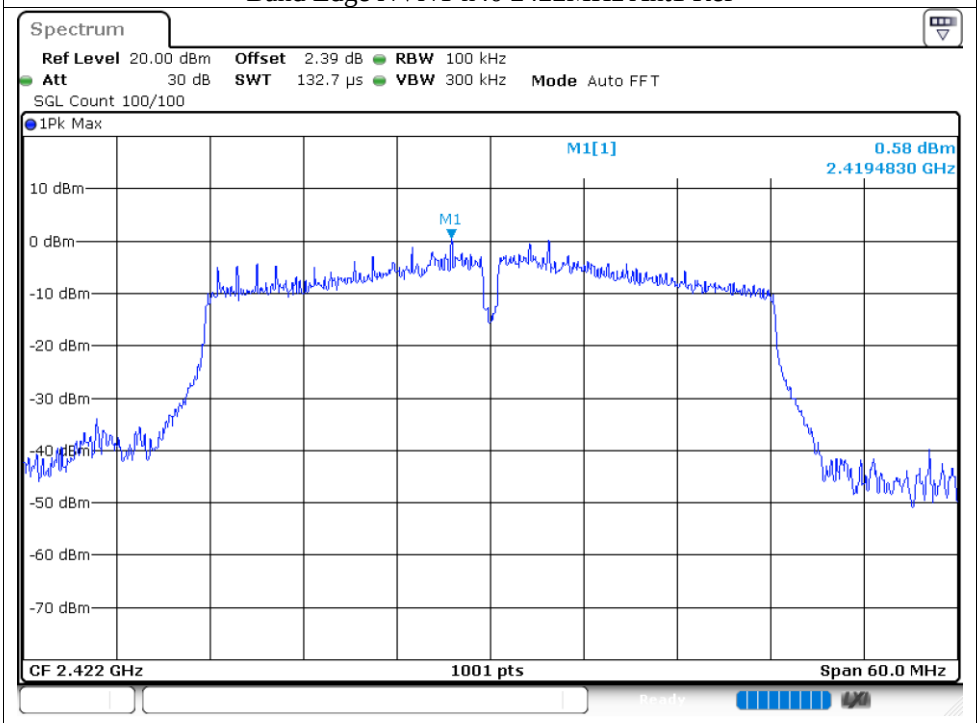
Band Edge NVNT n20 2462MHz Ant1 Emission



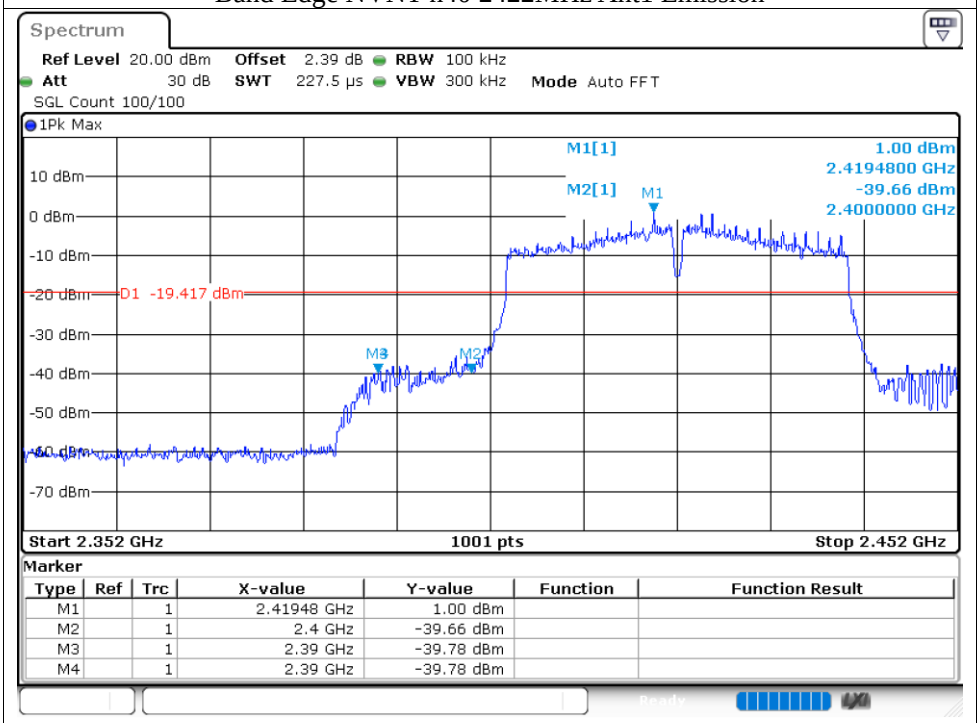
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46453 GHz	1.65 dBm		
M2		1	2.4835 GHz	-49.52 dBm		
M3		1	2.5 GHz	-59.14 dBm		
M4		1	2.4835 GHz	-49.52 dBm		

Band Edge NVNT n40 2422MHz Ant1 Ref



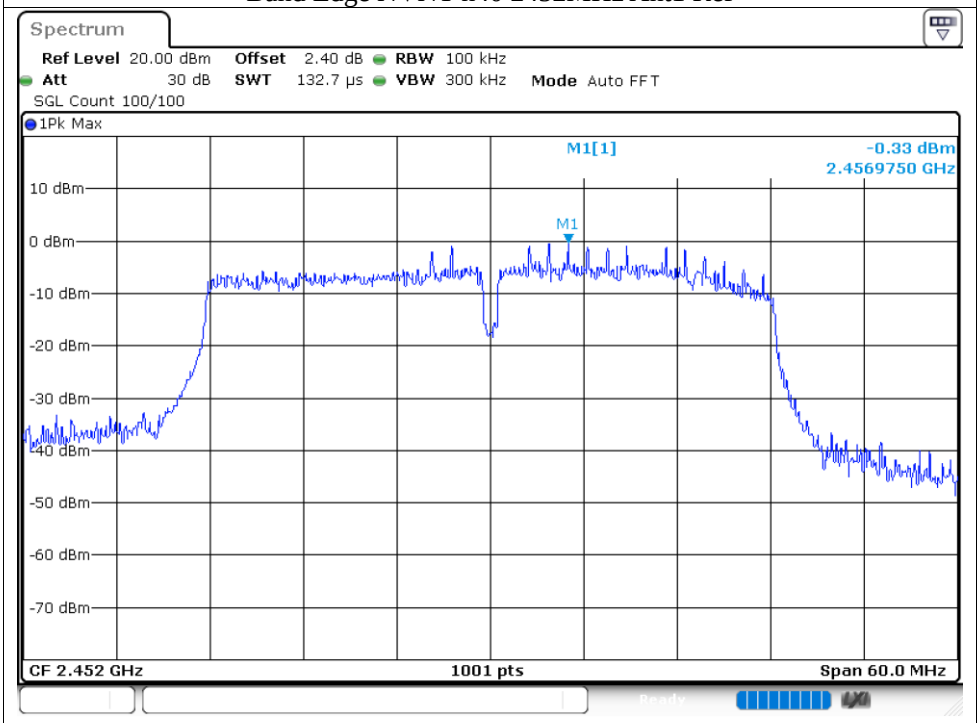
Band Edge NVNT n40 2422MHz Ant1 Emission



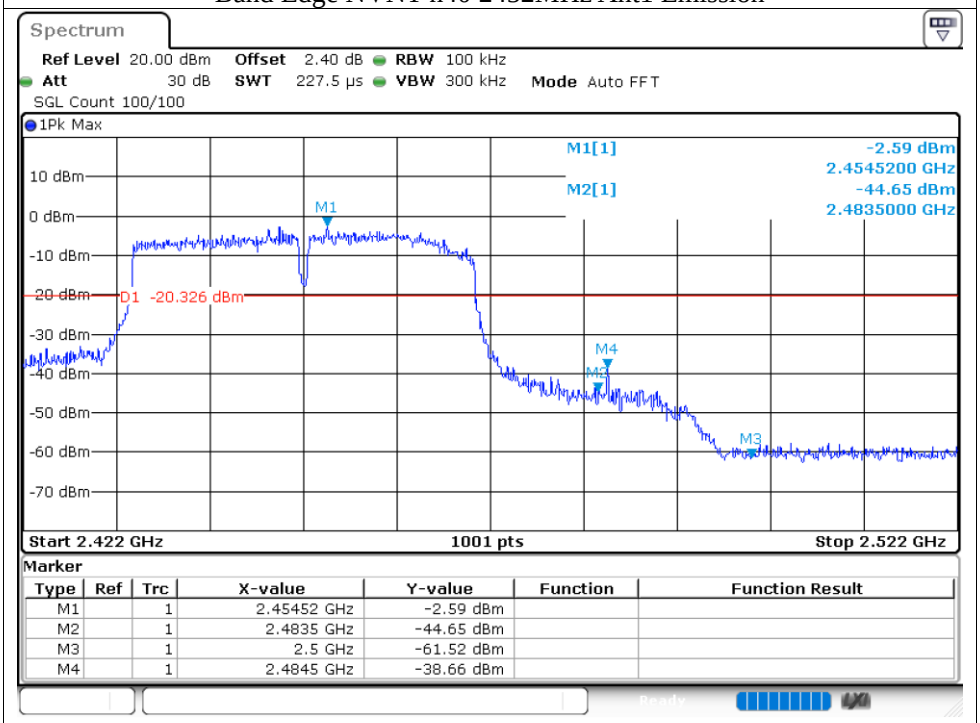
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41948 GHz	1.00 dBm		
M2		1	2.4 GHz	-39.66 dBm		
M3		1	2.39 GHz	-39.78 dBm		
M4		1	2.39 GHz	-39.78 dBm		

Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



Marker

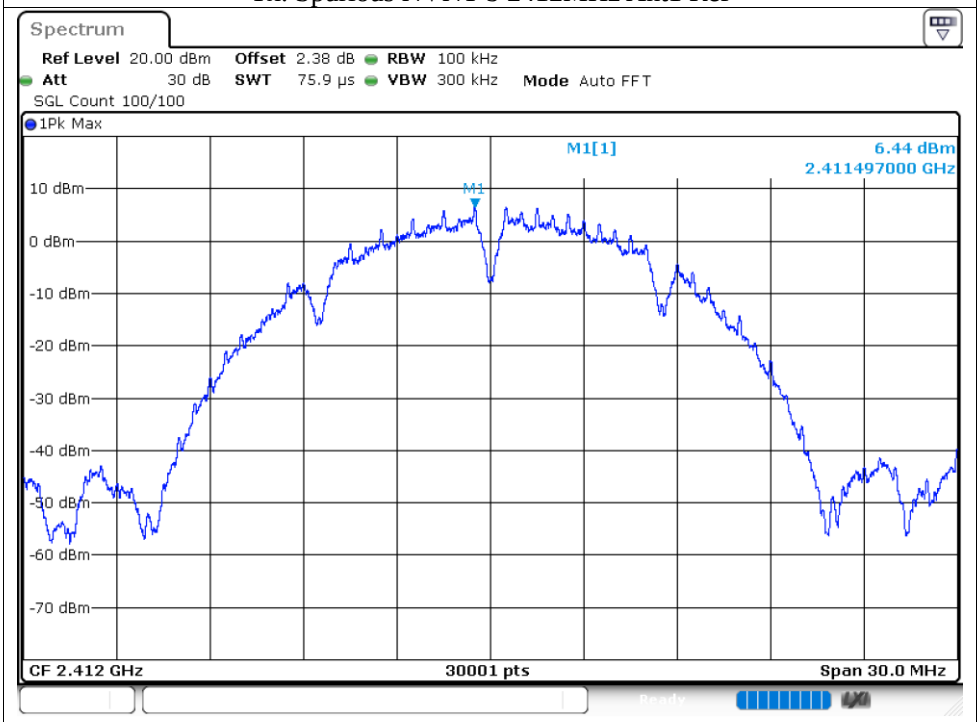
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45452 GHz	-2.59 dBm		
M2		1	2.4835 GHz	-44.65 dBm		
M3		1	2.5 GHz	-61.52 dBm		
M4		1	2.4845 GHz	-38.66 dBm		

8.7 Conducted RF Spurious Emission

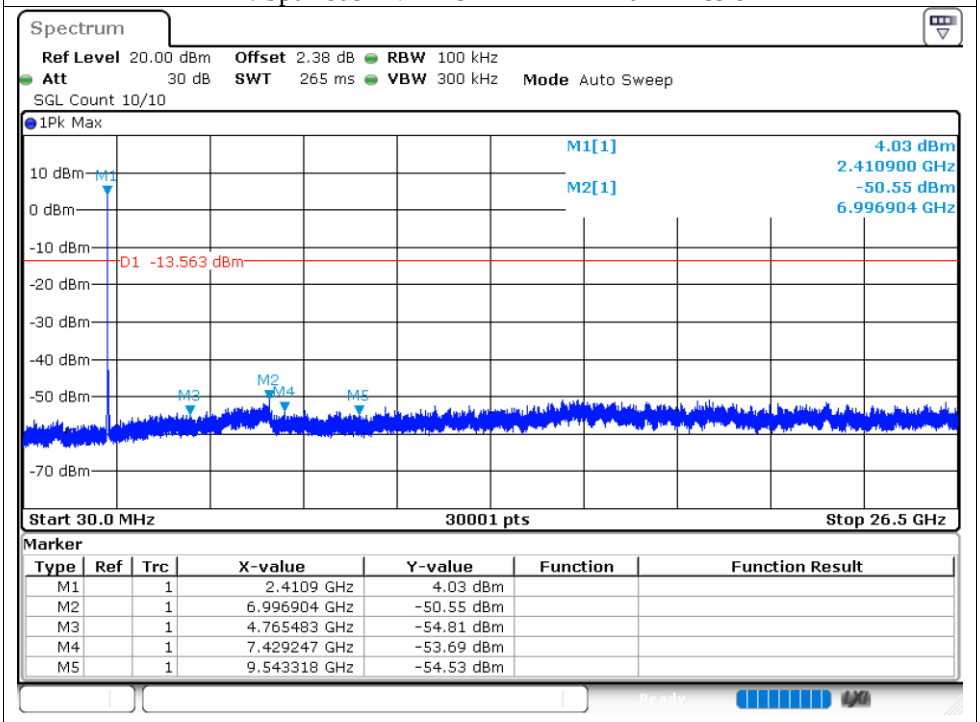
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.99	-20	Pass
NVNT	b	2437	Ant1	-57.16	-20	Pass
NVNT	b	2462	Ant1	-55.33	-20	Pass
NVNT	g	2412	Ant1	-50.12	-20	Pass
NVNT	g	2437	Ant1	-53.64	-20	Pass
NVNT	g	2462	Ant1	-51.59	-20	Pass
NVNT	n20	2412	Ant1	-50.69	-20	Pass
NVNT	n20	2437	Ant1	-52.88	-20	Pass
NVNT	n20	2462	Ant1	-48.95	-20	Pass
NVNT	n40	2422	Ant1	-51.03	-20	Pass
NVNT	n40	2437	Ant1	-50.3	-20	Pass
NVNT	n40	2452	Ant1	-48.75	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



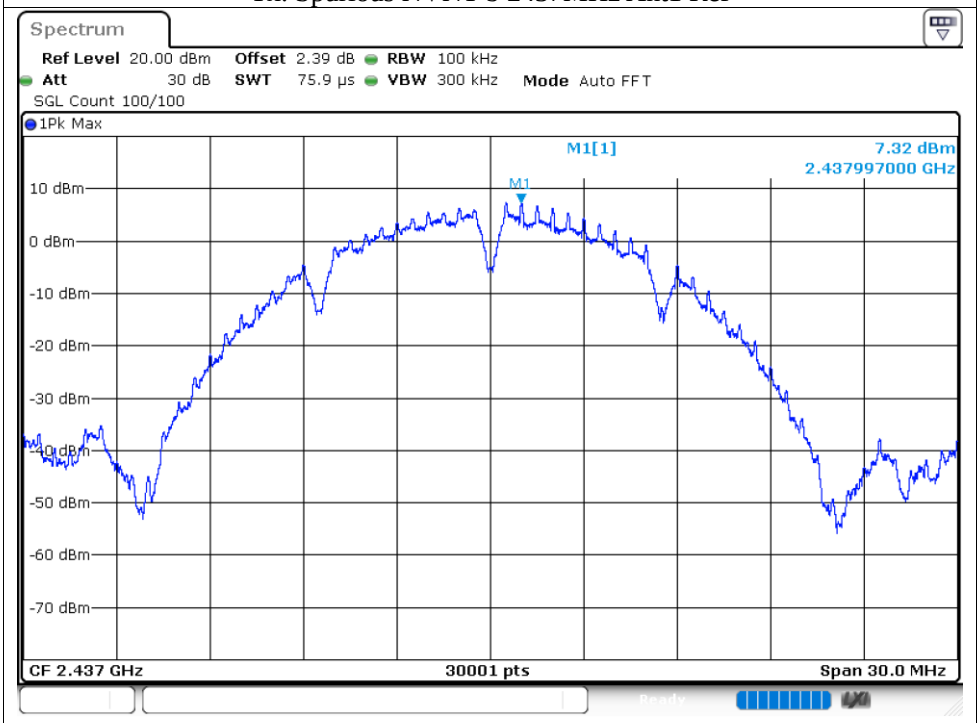
Tx. Spurious NVNT b 2412MHz Ant1 Emission



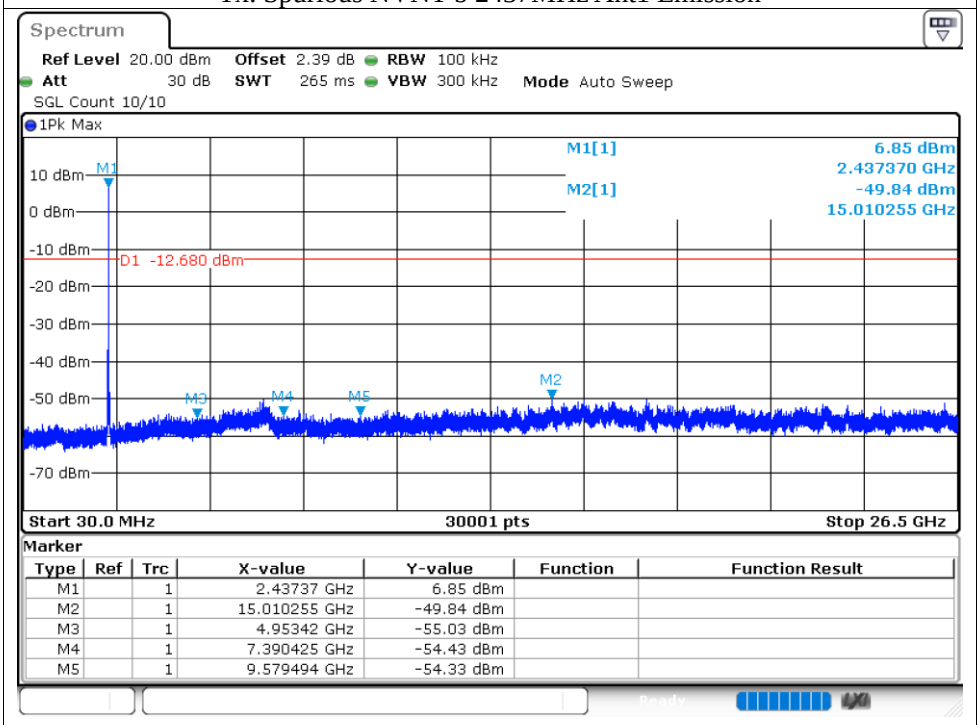
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4109 GHz	4.03 dBm		
M2		1	6.996904 GHz	-50.55 dBm		
M3		1	4.765483 GHz	-54.81 dBm		
M4		1	7.429247 GHz	-53.69 dBm		
M5		1	9.543318 GHz	-54.53 dBm		

Tx. Spurious NVNT b 2437MHz Ant1 Ref



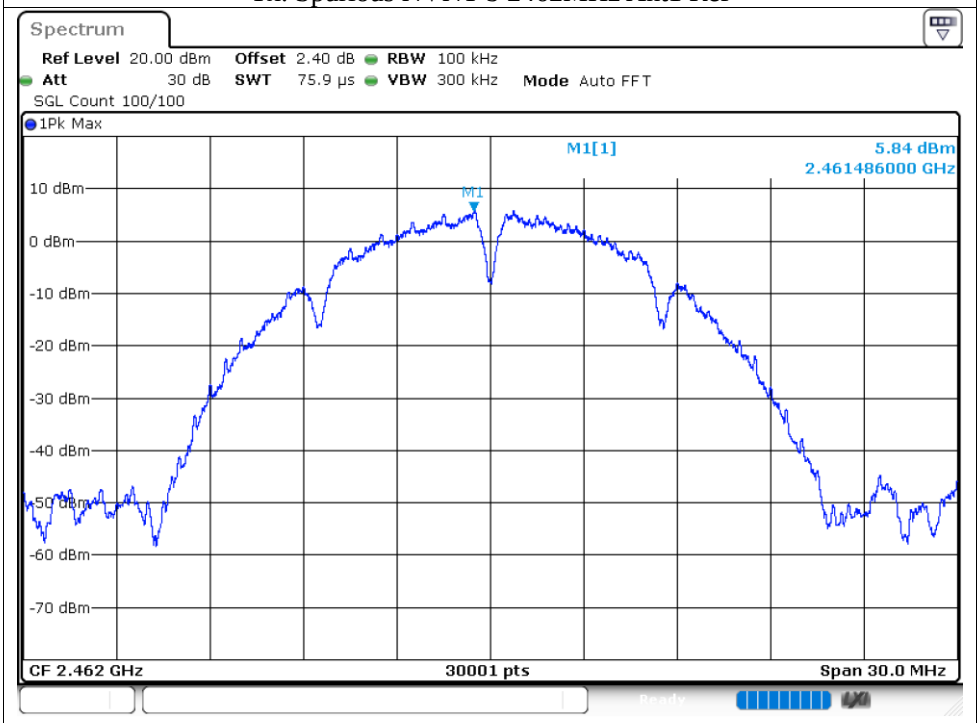
Tx. Spurious NVNT b 2437MHz Ant1 Emission



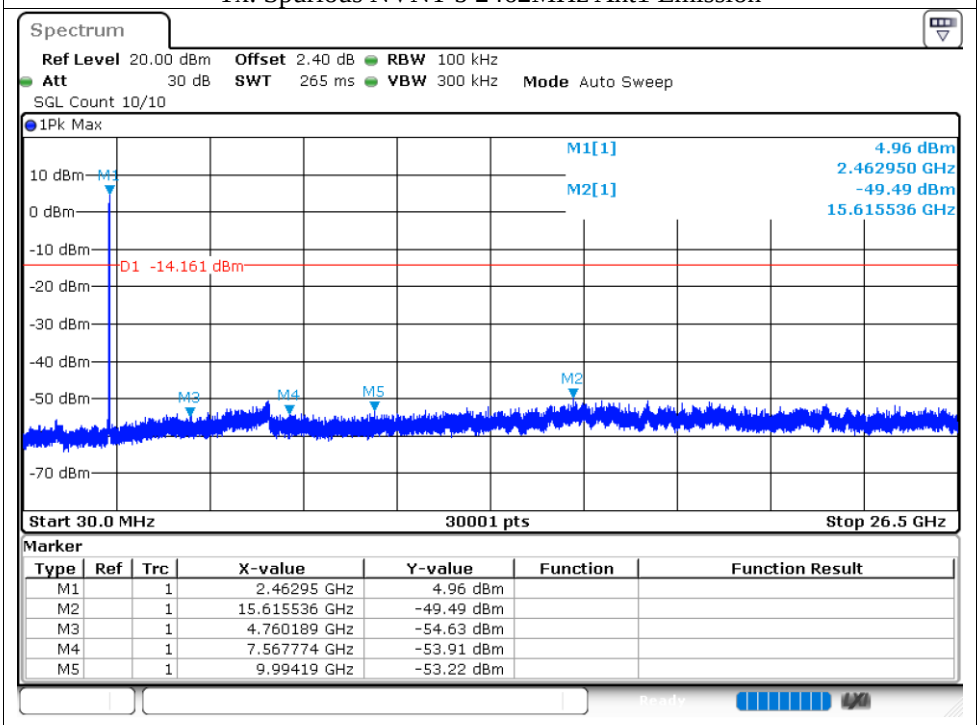
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43737 GHz	6.85 dBm		
M2		1	15.010255 GHz	-49.84 dBm		
M3		1	4.95342 GHz	-55.03 dBm		
M4		1	7.390425 GHz	-54.43 dBm		
M5		1	9.579494 GHz	-54.33 dBm		

Tx. Spurious NVNT b 2462MHz Ant1 Ref



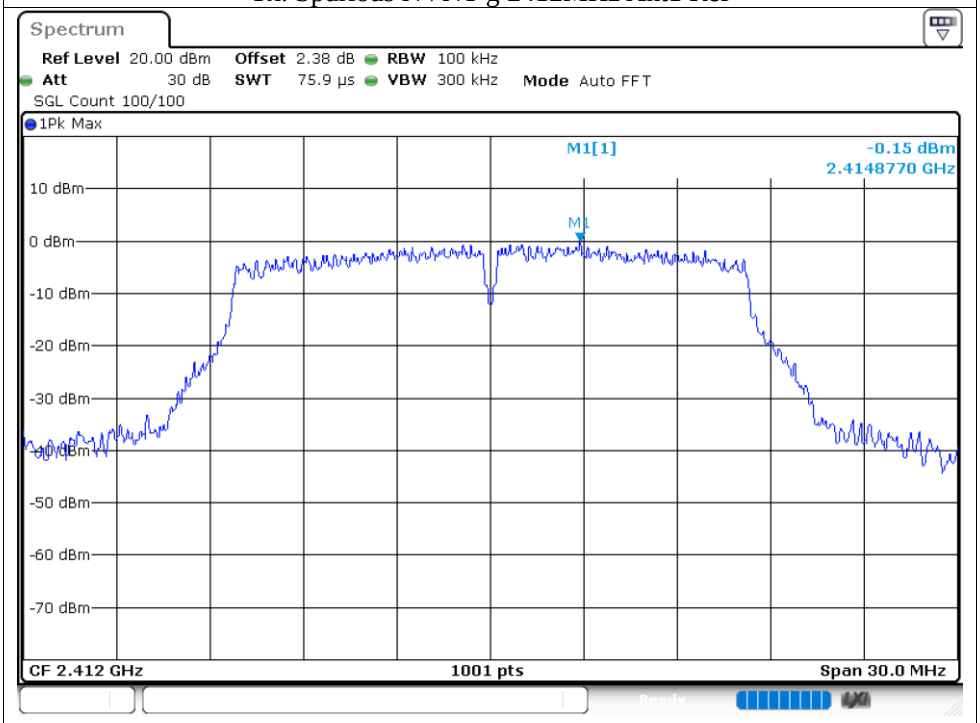
Tx. Spurious NVNT b 2462MHz Ant1 Emission



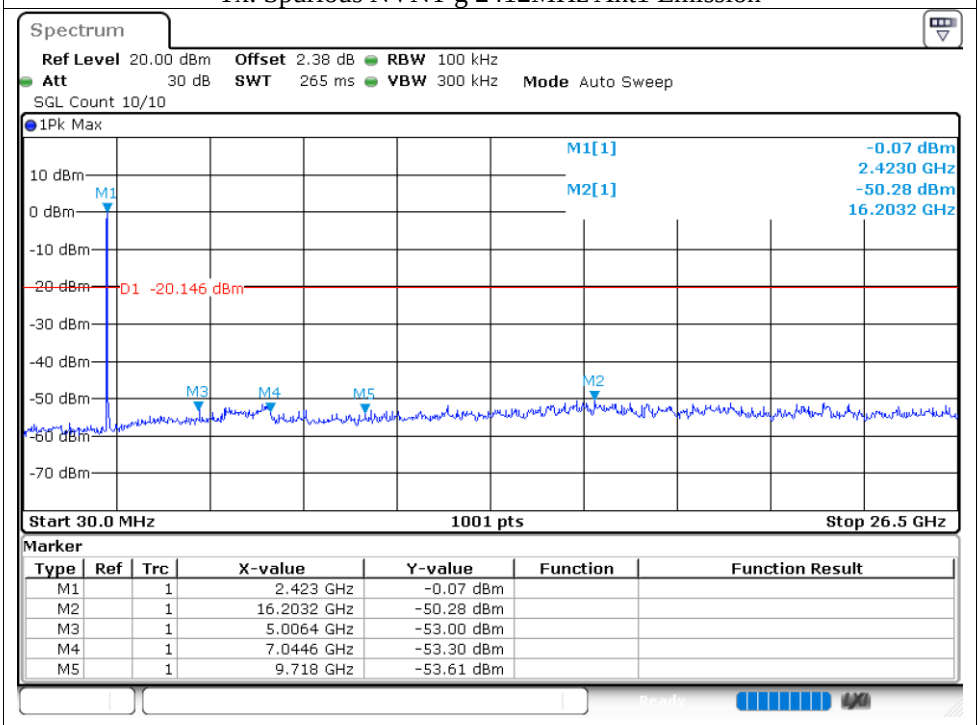
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46295 GHz	4.96 dBm		
M2		1	15.615536 GHz	-49.49 dBm		
M3		1	4.760189 GHz	-54.63 dBm		
M4		1	7.567774 GHz	-53.91 dBm		
M5		1	9.99419 GHz	-53.22 dBm		

Tx. Spurious NVNT g 2412MHz Ant1 Ref



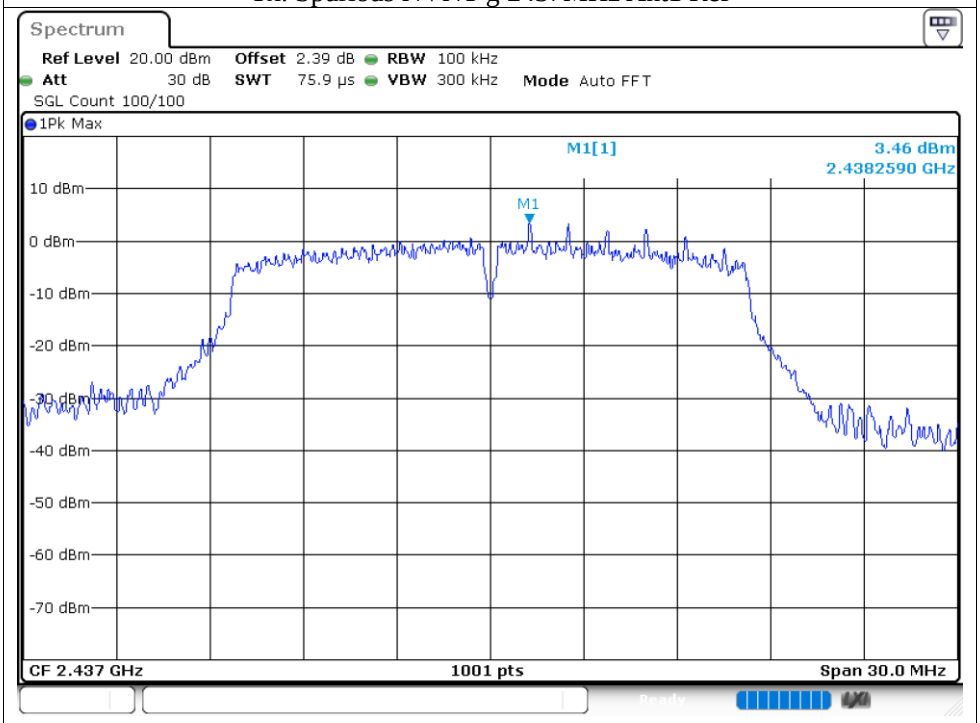
Tx. Spurious NVNT g 2412MHz Ant1 Emission



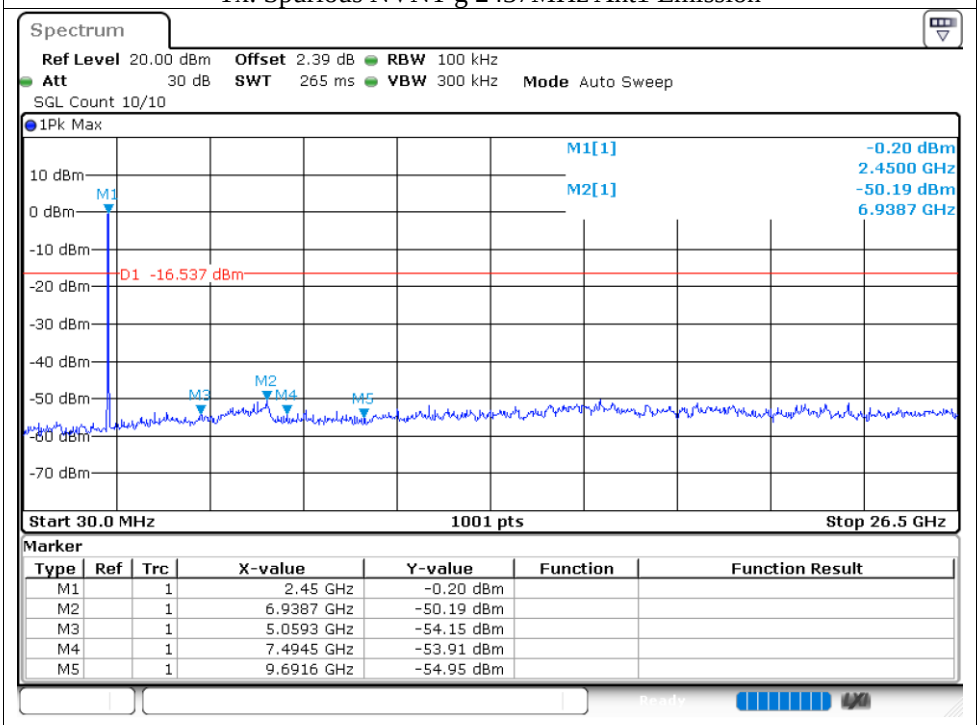
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-0.07 dBm		
M2		1	16.2032 GHz	-50.28 dBm		
M3		1	5.0064 GHz	-53.00 dBm		
M4		1	7.0446 GHz	-53.30 dBm		
M5		1	9.718 GHz	-53.61 dBm		

Tx. Spurious NVNT g 2437MHz Ant1 Ref



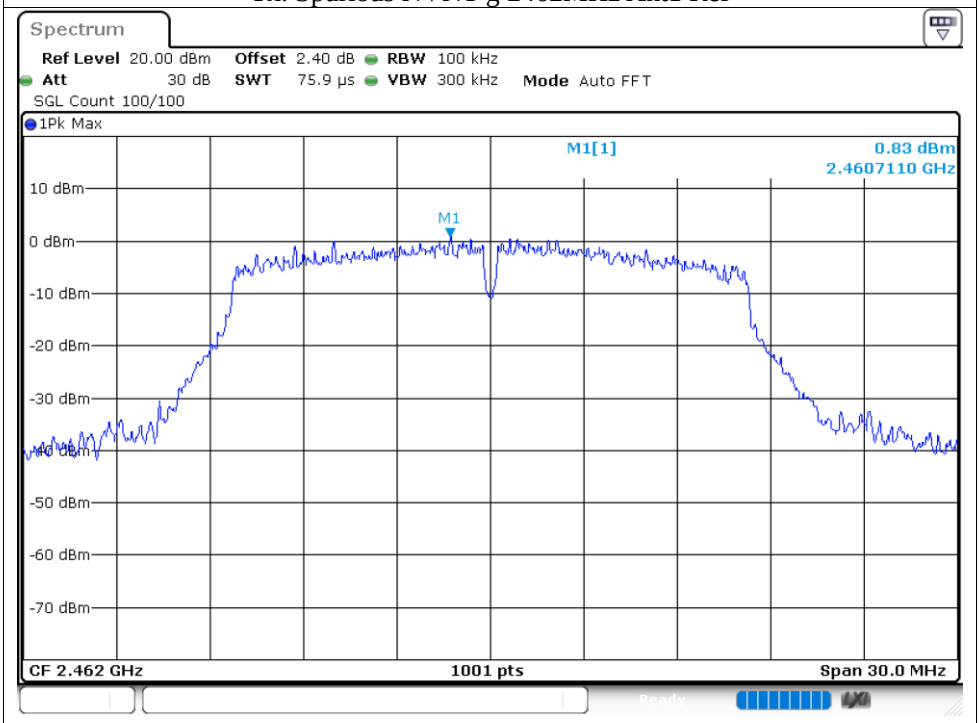
Tx. Spurious NVNT g 2437MHz Ant1 Emission



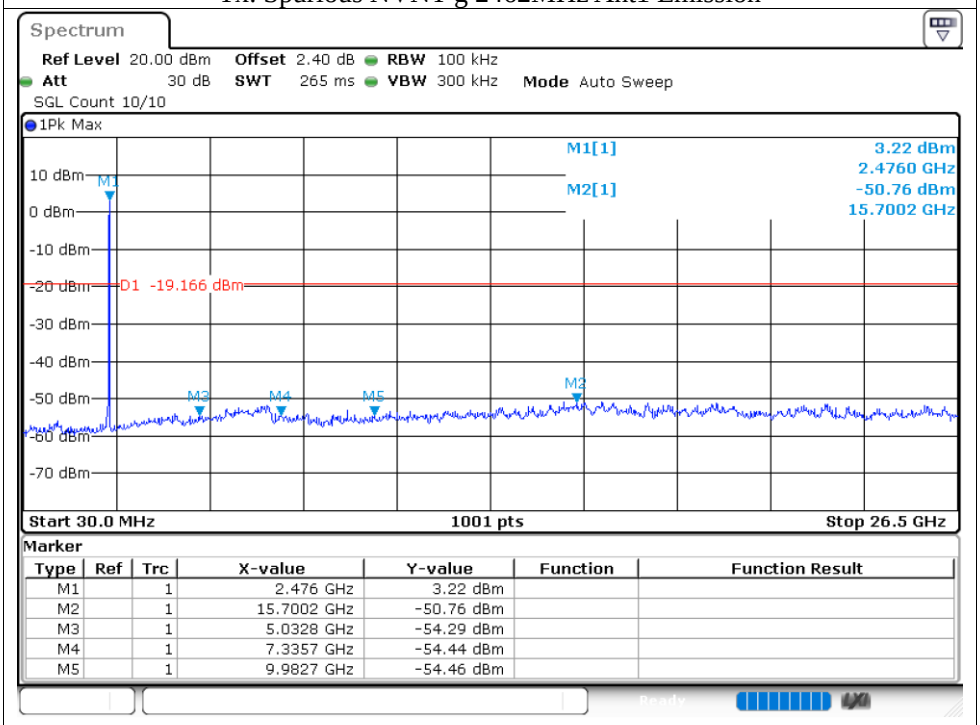
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-0.20 dBm		
M2		1	6.9387 GHz	-50.19 dBm		
M3		1	5.0593 GHz	-54.15 dBm		
M4		1	7.4945 GHz	-53.91 dBm		
M5		1	9.6916 GHz	-54.95 dBm		

Tx. Spurious NVNT g 2462MHz Ant1 Ref



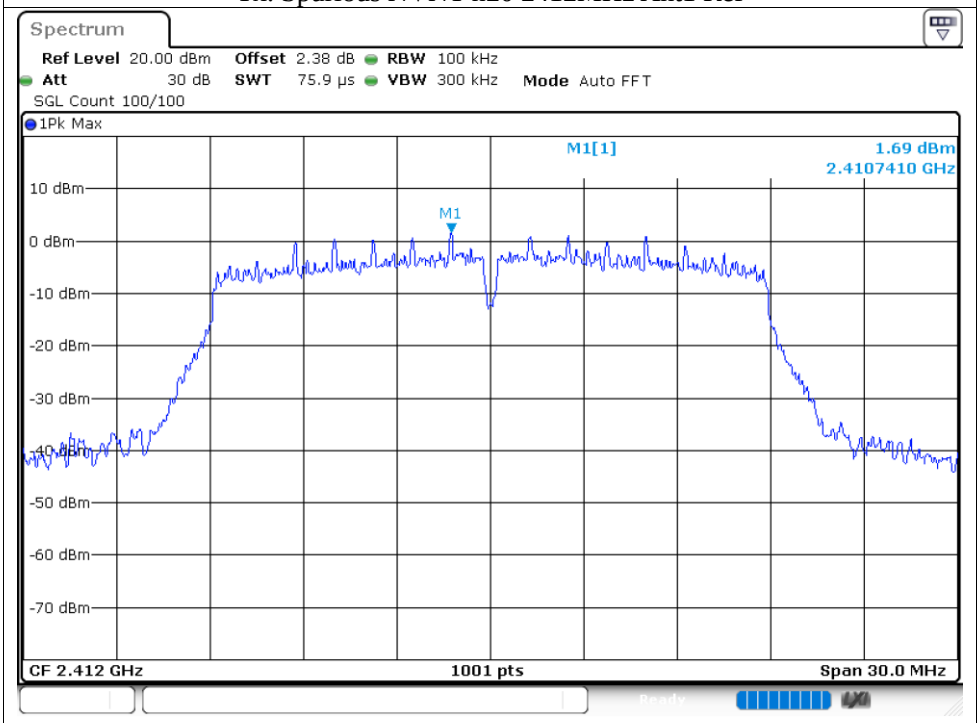
Tx. Spurious NVNT g 2462MHz Ant1 Emission



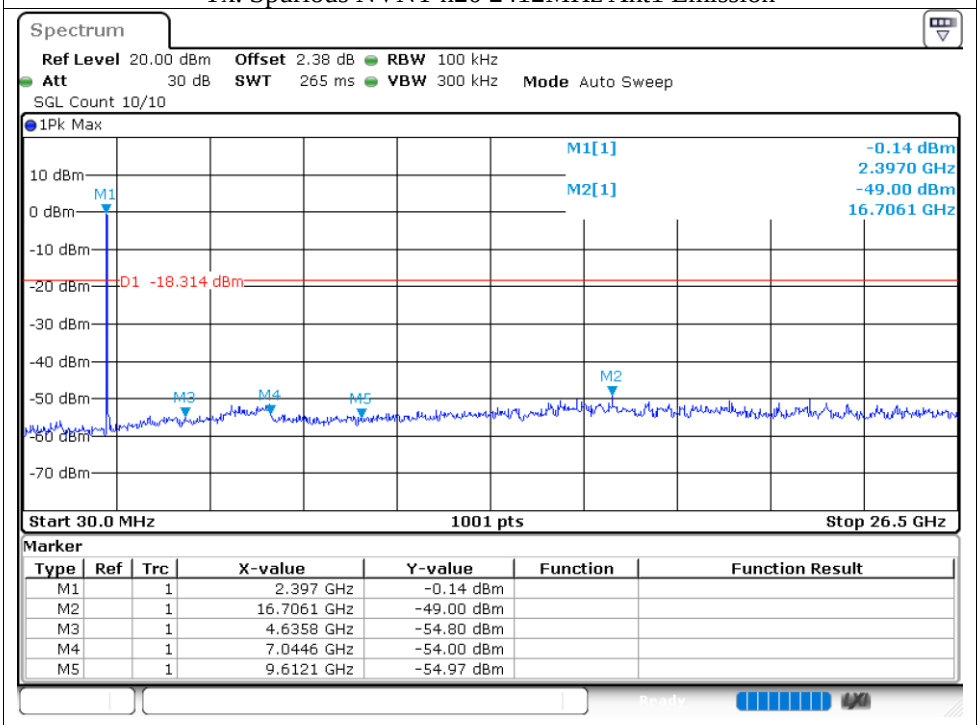
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	3.22 dBm		
M2		1	15.7002 GHz	-50.76 dBm		
M3		1	5.0328 GHz	-54.29 dBm		
M4		1	7.3357 GHz	-54.44 dBm		
M5		1	9.9827 GHz	-54.46 dBm		

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



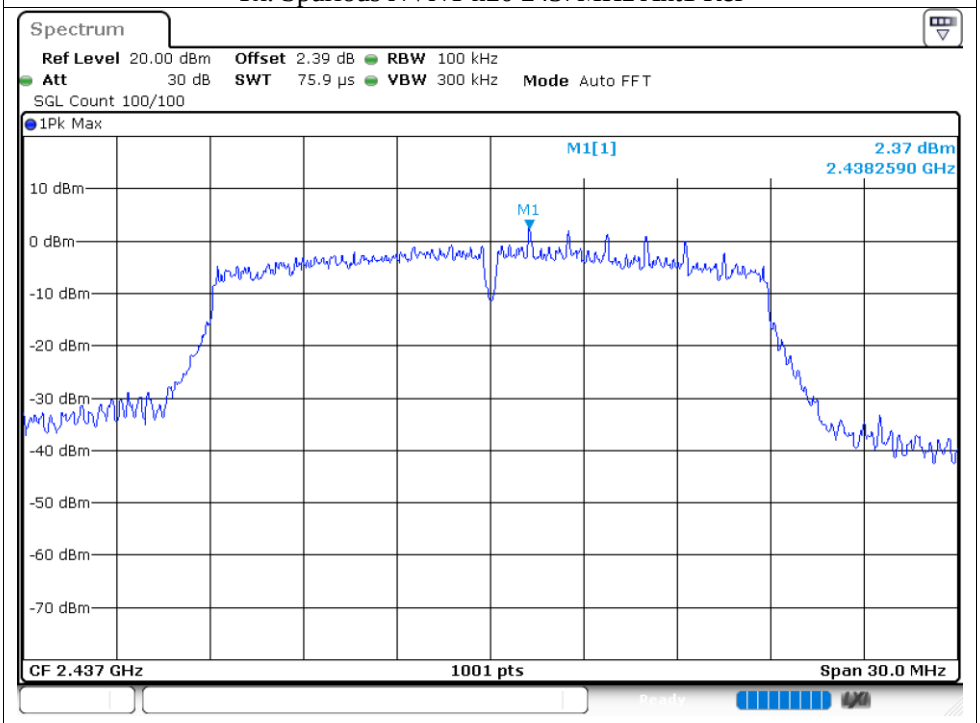
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



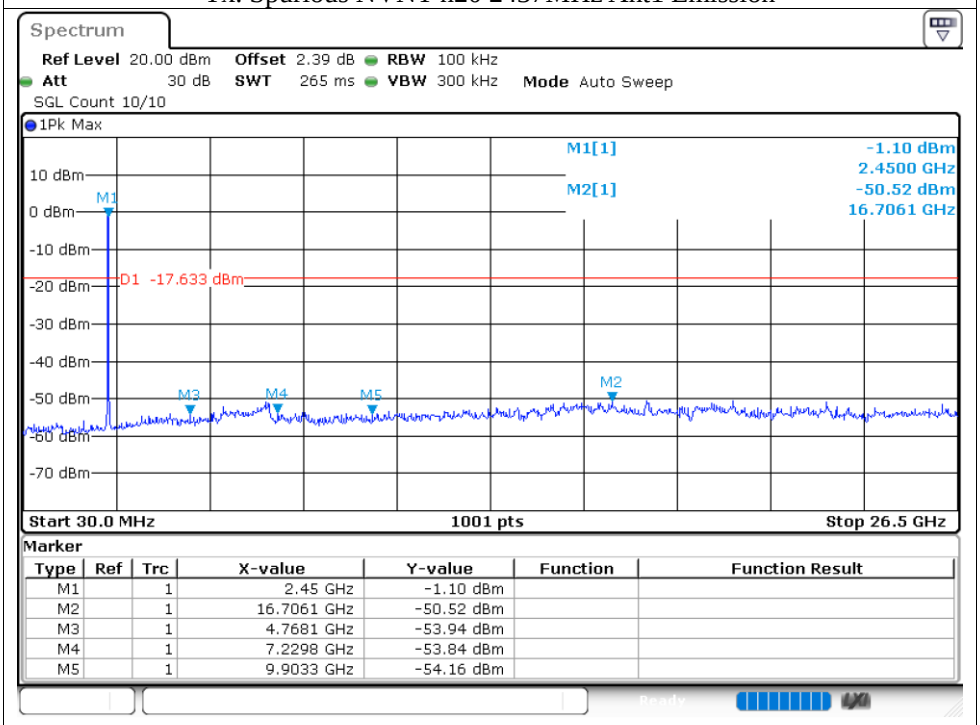
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	-0.14 dBm		
M2		1	16.7061 GHz	-49.00 dBm		
M3		1	4.6358 GHz	-54.80 dBm		
M4		1	7.0446 GHz	-54.00 dBm		
M5		1	9.6121 GHz	-54.97 dBm		

Tx. Spurious NVNT n20 2437MHz Ant1 Ref



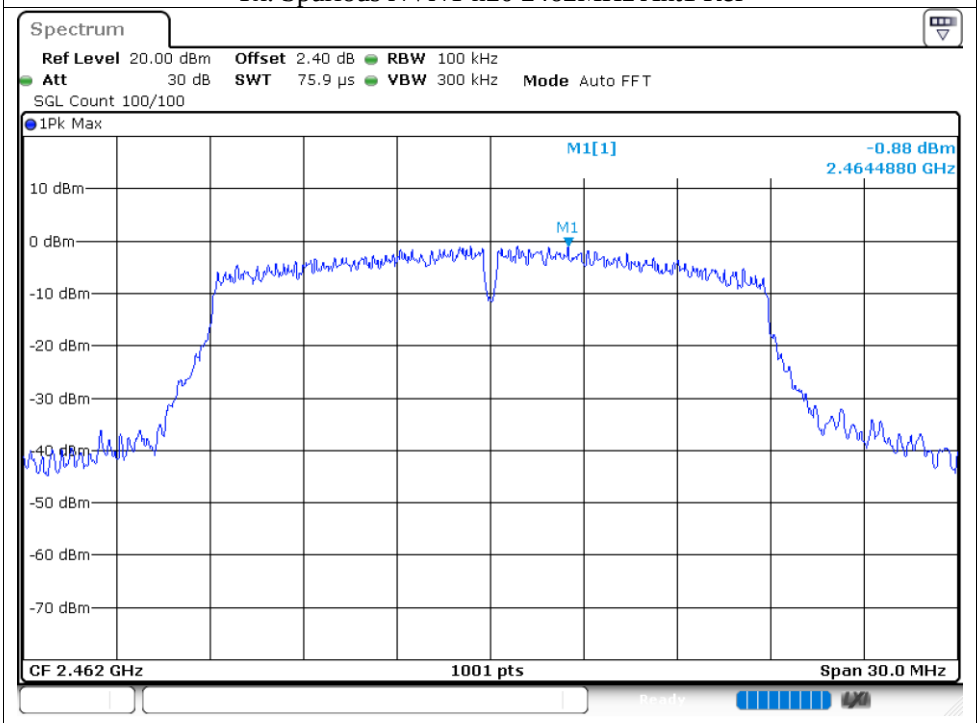
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



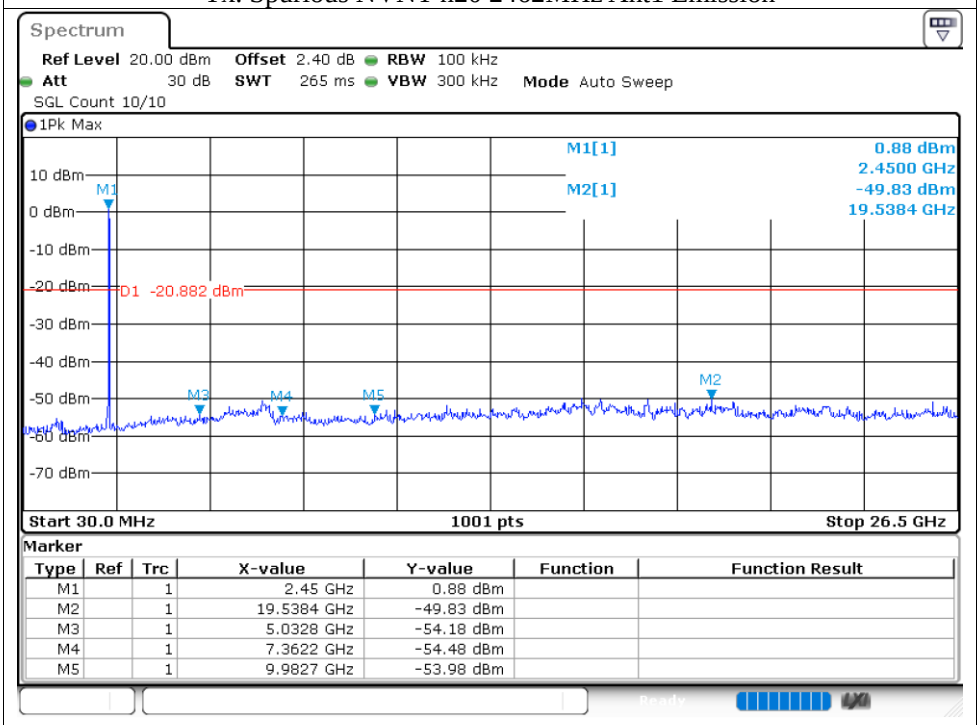
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-1.10 dBm		
M2		1	16.7061 GHz	-50.52 dBm		
M3		1	4.7681 GHz	-53.94 dBm		
M4		1	7.2298 GHz	-53.84 dBm		
M5		1	9.9033 GHz	-54.16 dBm		

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



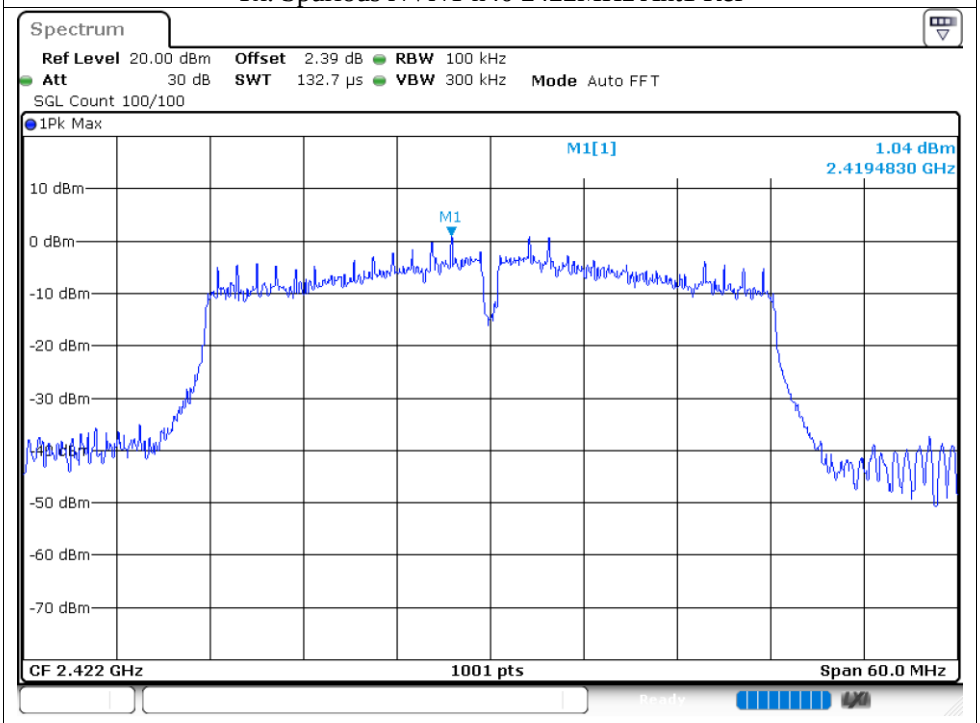
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



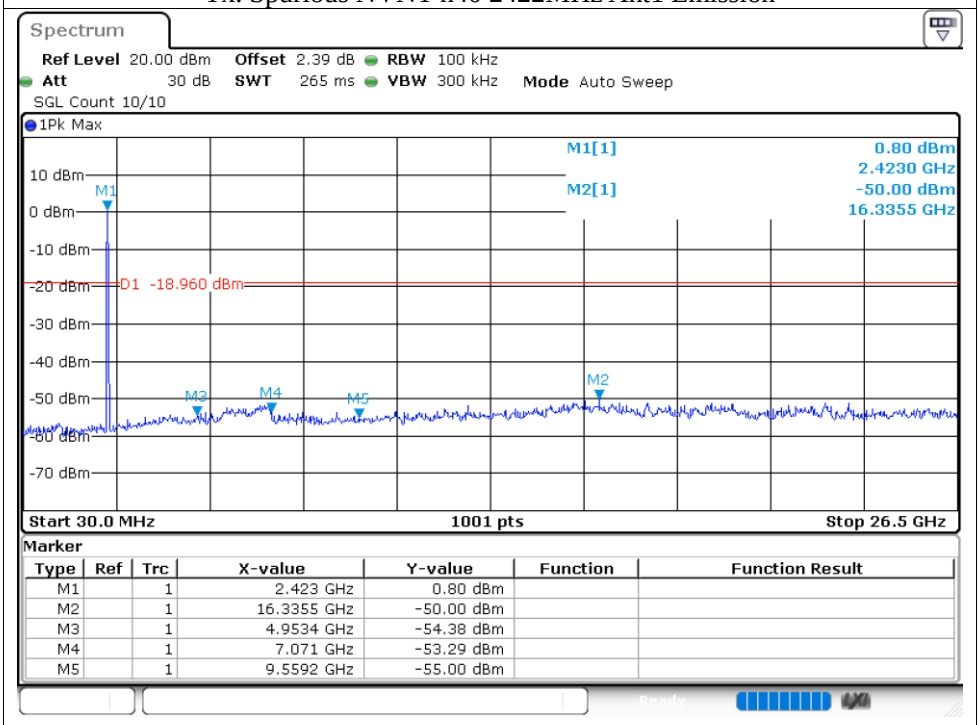
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	0.88 dBm		
M2		1	19.5384 GHz	-49.83 dBm		
M3		1	5.0328 GHz	-54.18 dBm		
M4		1	7.3622 GHz	-54.48 dBm		
M5		1	9.9827 GHz	-53.98 dBm		

Tx. Spurious NVNT n40 2422MHz Ant1 Ref



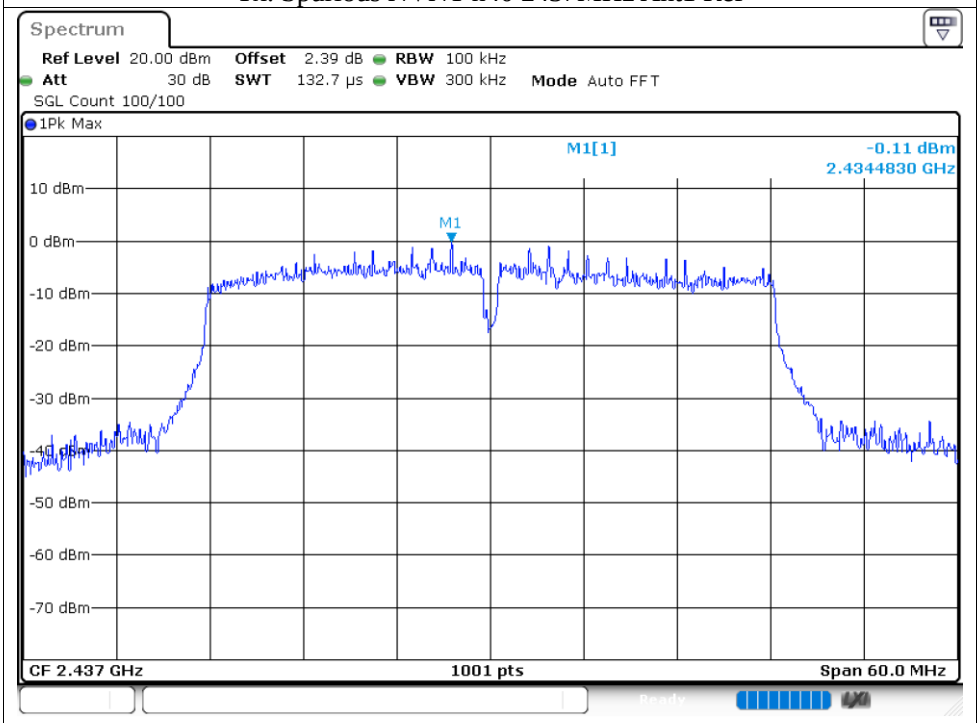
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



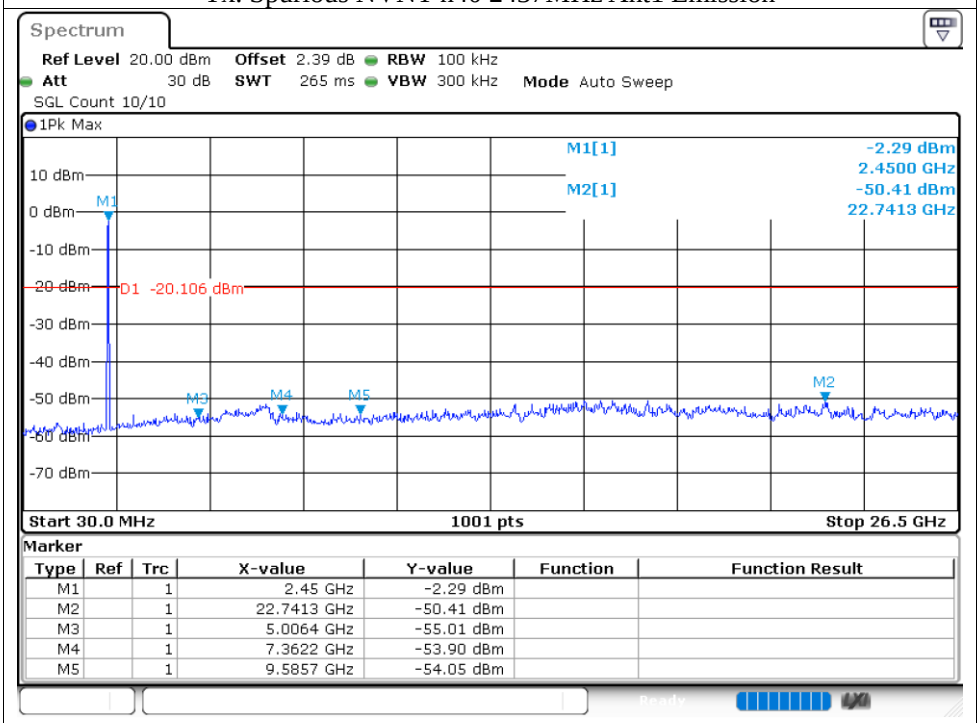
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	0.80 dBm		
M2		1	16.3355 GHz	-50.00 dBm		
M3		1	4.9534 GHz	-54.38 dBm		
M4		1	7.071 GHz	-53.29 dBm		
M5		1	9.5592 GHz	-55.00 dBm		

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



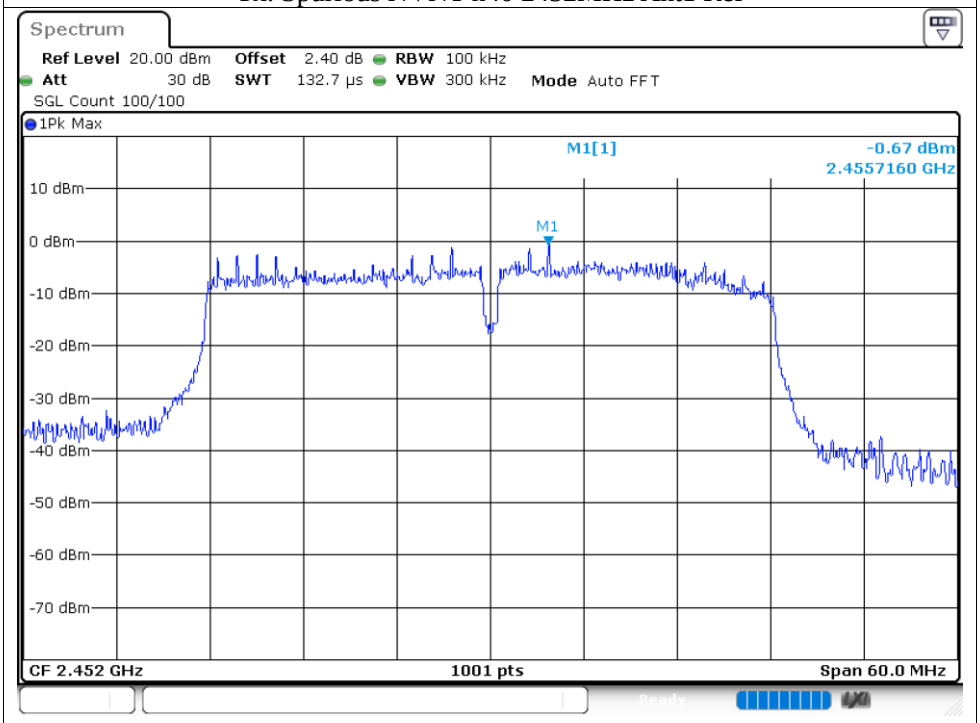
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



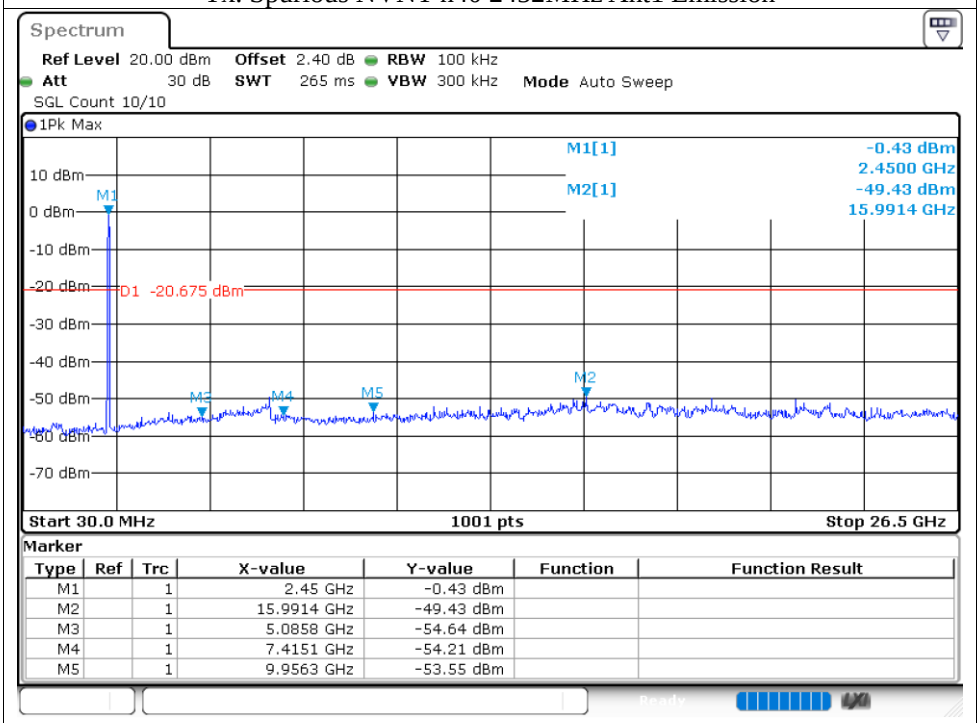
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-2.29 dBm		
M2		1	22.7413 GHz	-50.41 dBm		
M3		1	5.0064 GHz	-55.01 dBm		
M4		1	7.3622 GHz	-53.90 dBm		
M5		1	9.5857 GHz	-54.05 dBm		

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-0.43 dBm		
M2		1	15.9914 GHz	-49.43 dBm		
M3		1	5.0858 GHz	-54.64 dBm		
M4		1	7.4151 GHz	-54.21 dBm		
M5		1	9.9563 GHz	-53.55 dBm		

END OF REPORT