

8.3 -20dB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.94	0	Pass
NVNT	1-DH5	2441	Ant1	0.87	0	Pass
NVNT	1-DH5	2480	Ant1	0.936	0	Pass
NVNT	2-DH5	2402	Ant1	1.338	0	Pass
NVNT	2-DH5	2441	Ant1	1.294	0	Pass
NVNT	2-DH5	2480	Ant1	1.286	0	Pass
NVNT	3-DH5	2402	Ant1	1.288	0	Pass
NVNT	3-DH5	2441	Ant1	1.296	0	Pass
NVNT	3-DH5	2480	Ant1	1.298	0	Pass

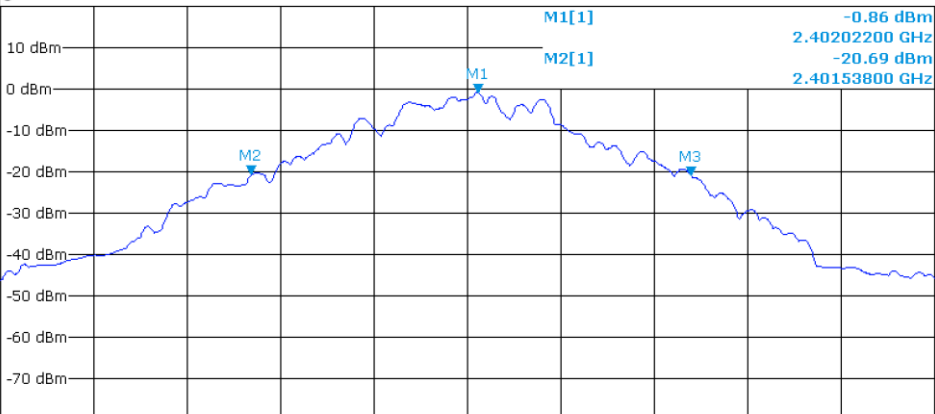
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



CF 2.402 GHz 1001 pts Span 2.0 MHz

Marker

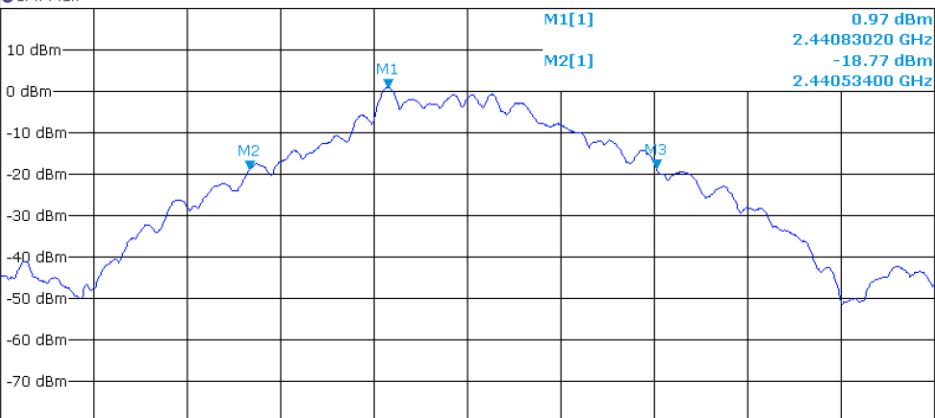
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.402022 GHz	-0.86 dBm		
M2	1	1	2.401538 GHz	-20.69 dBm		
M3	1	1	2.402478 GHz	-20.77 dBm		

-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

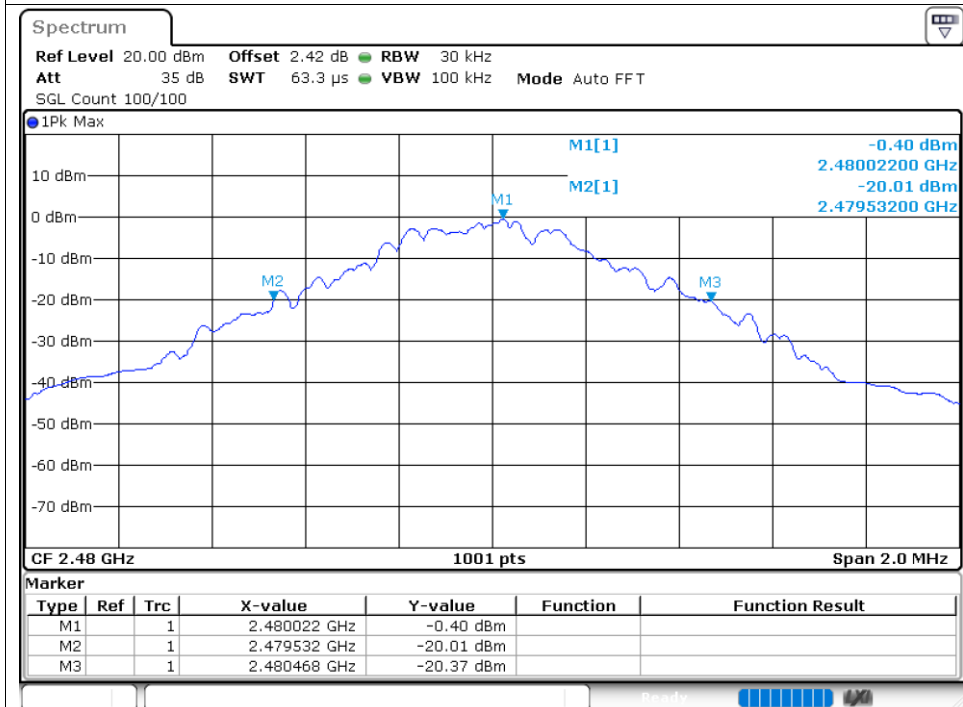


CF 2.441 GHz 1001 pts Span 2.0 MHz

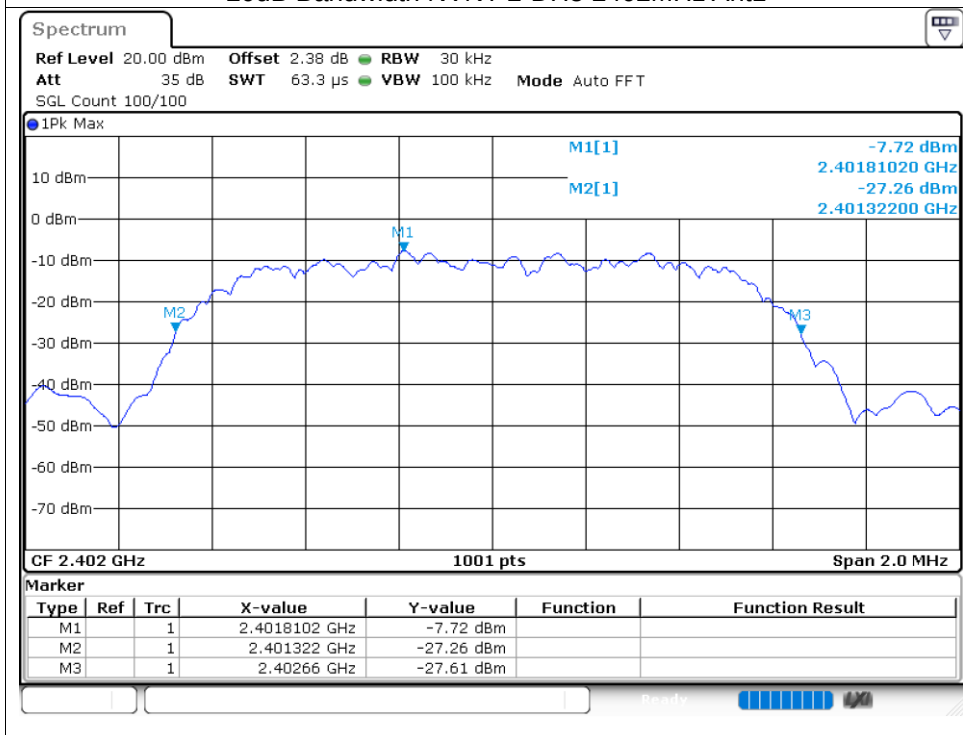
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.4408302 GHz	0.97 dBm		
M2	1	1	2.440534 GHz	-18.77 dBm		
M3	1	1	2.441404 GHz	-18.66 dBm		

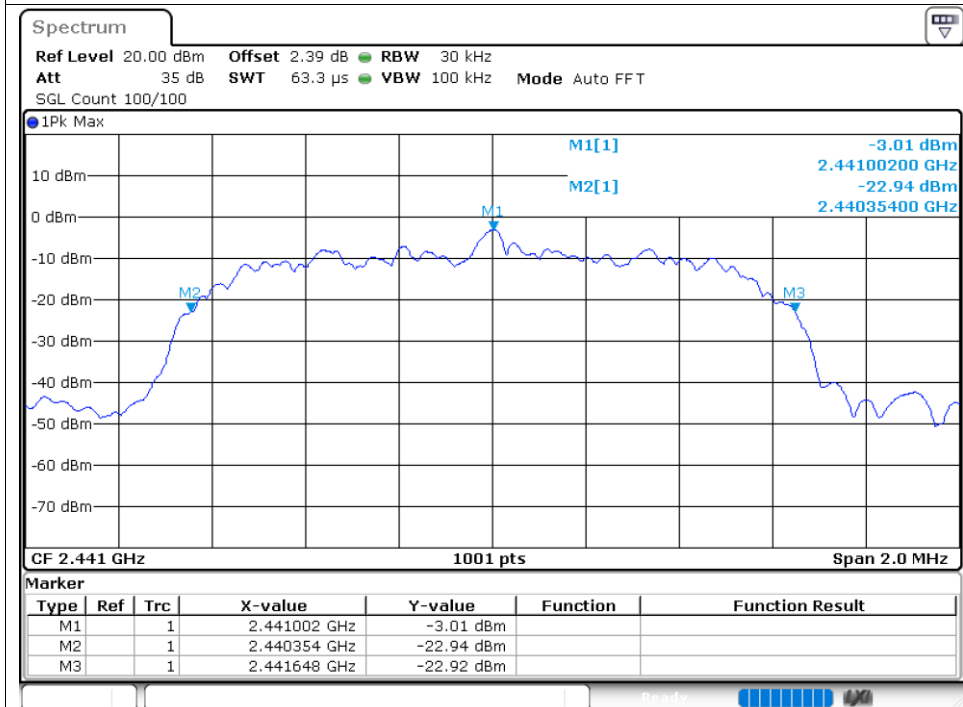
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



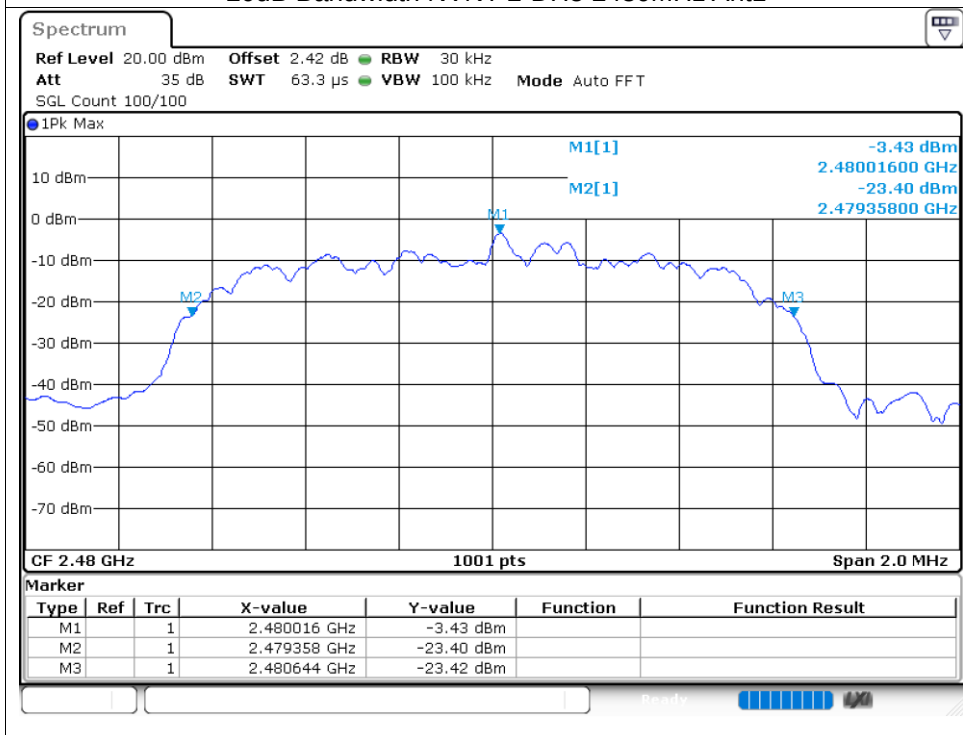
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



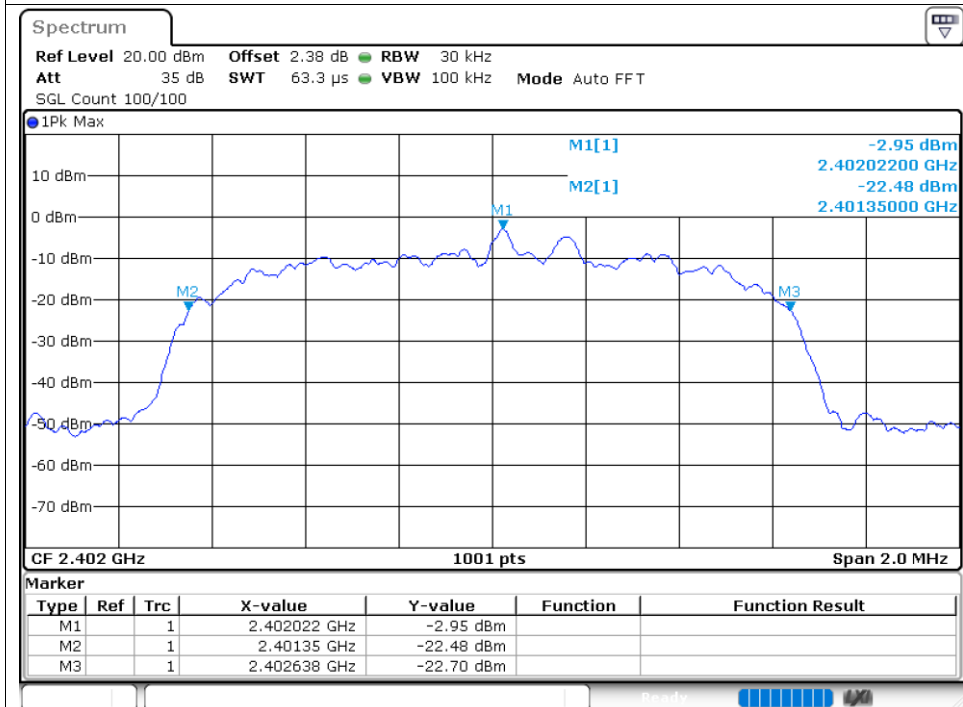
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



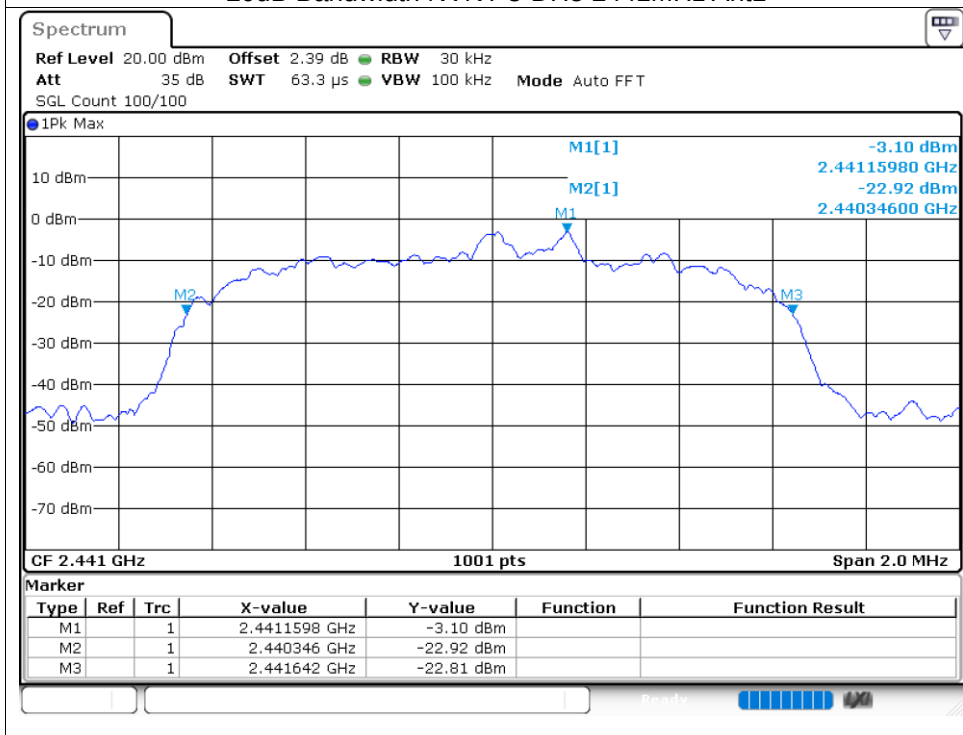
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

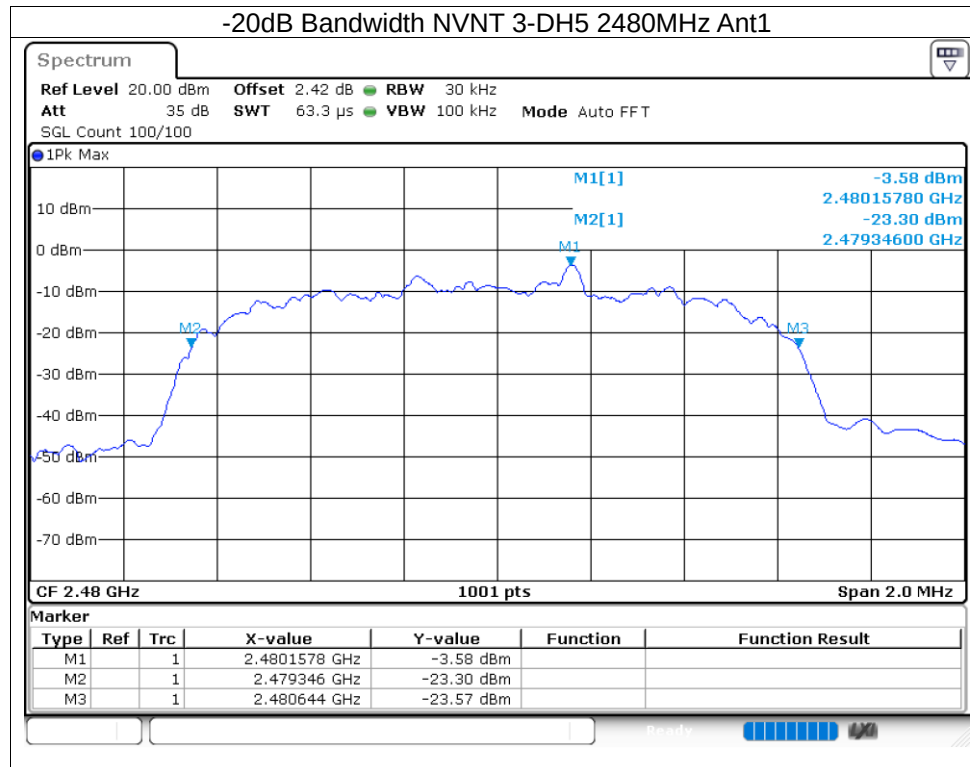


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





8.4 OCCUPIED CHANNEL BANDWIDTH

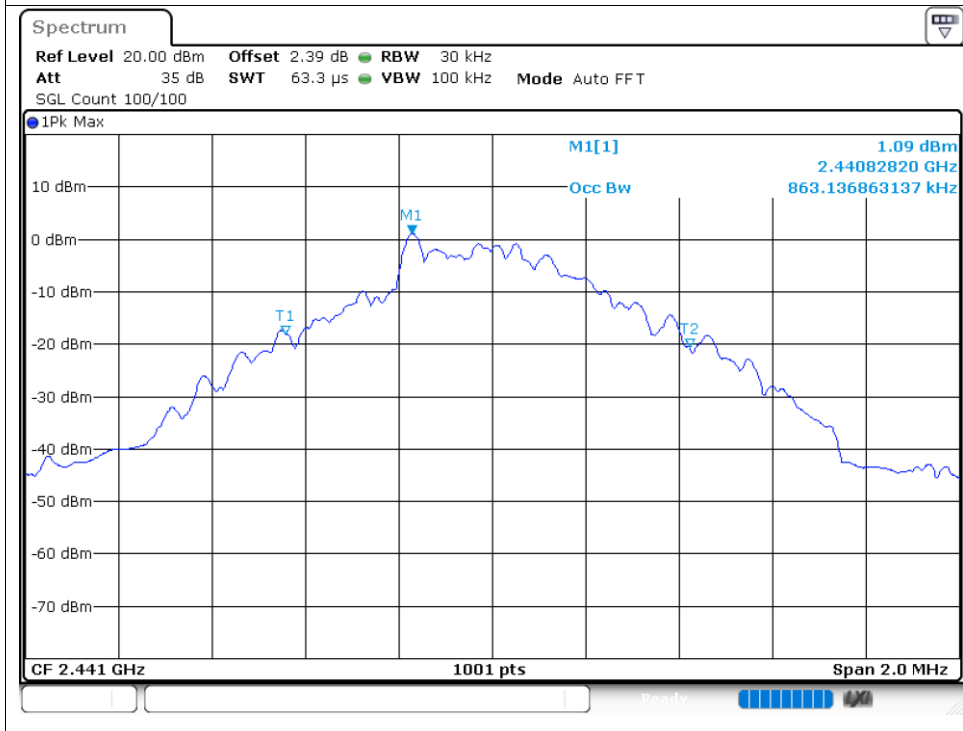
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.907
NVNT	1-DH5	2441	Ant1	0.863
NVNT	1-DH5	2480	Ant1	0.893
NVNT	2-DH5	2402	Ant1	1.197
NVNT	2-DH5	2441	Ant1	1.183
NVNT	2-DH5	2480	Ant1	1.193
NVNT	3-DH5	2402	Ant1	1.191
NVNT	3-DH5	2441	Ant1	1.183
NVNT	3-DH5	2480	Ant1	1.193

Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



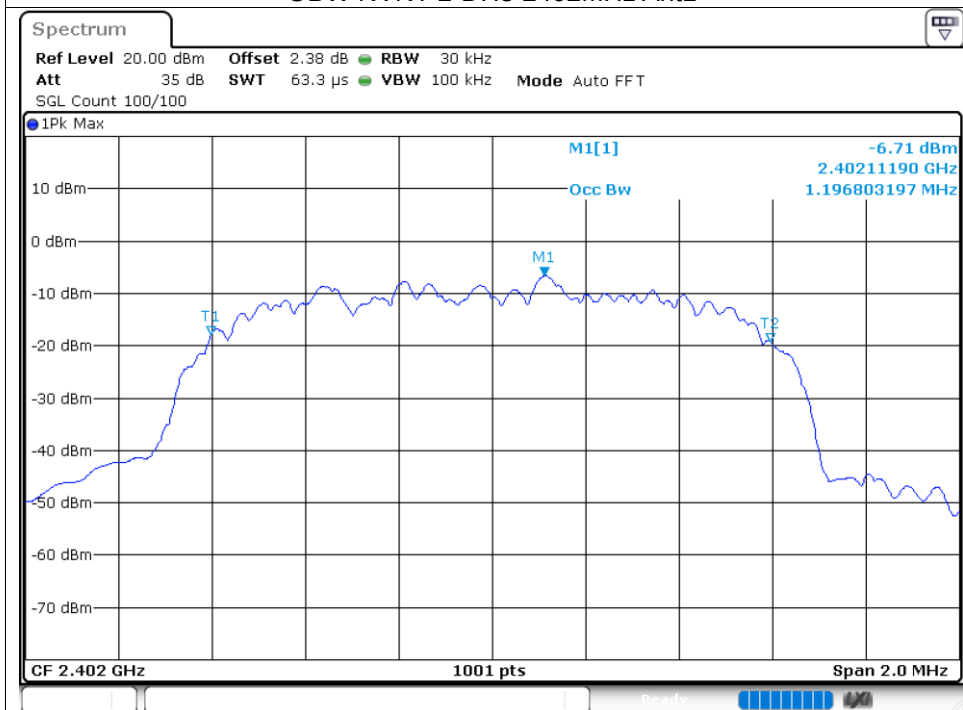
OBW NVNT 1-DH5 2441MHz Ant1



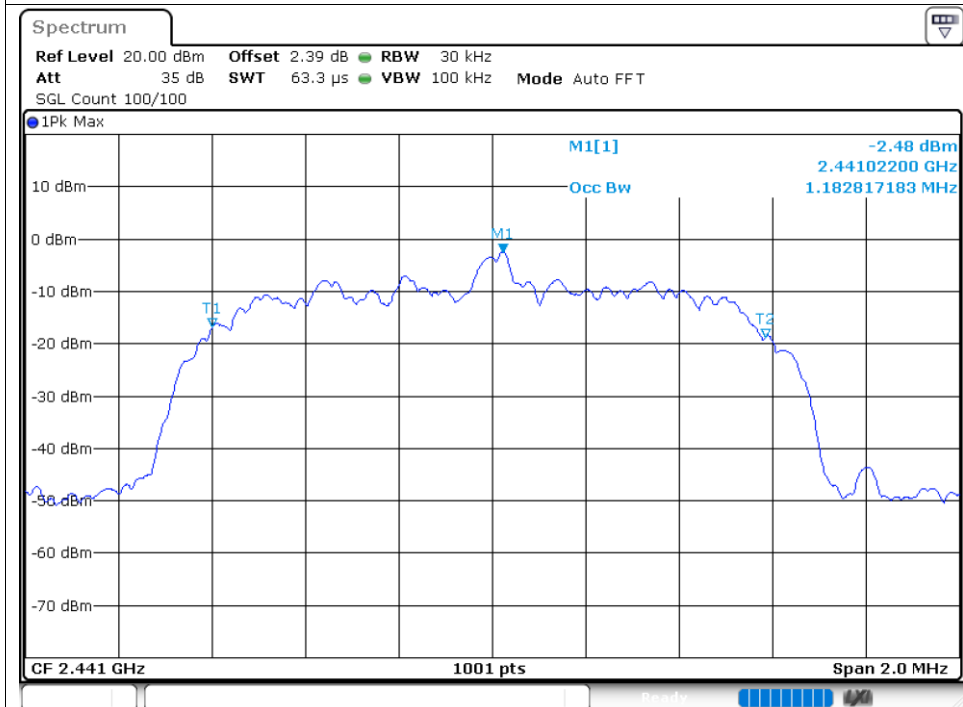
OBW NVNT 1-DH5 2480MHz Ant1



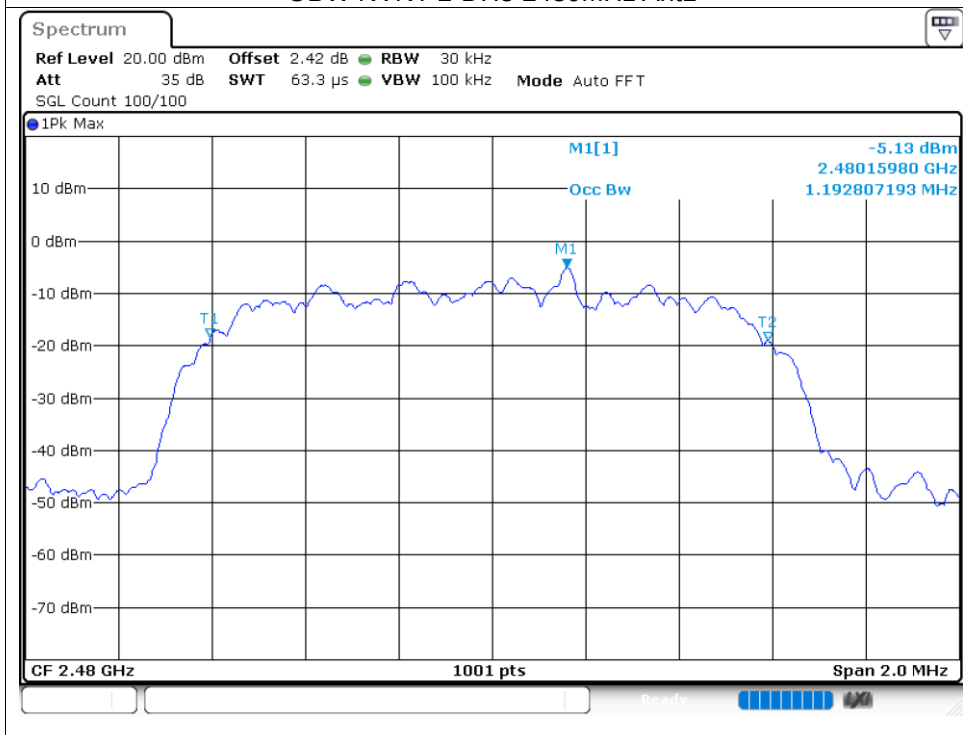
OBW NVNT 2-DH5 2402MHz Ant1



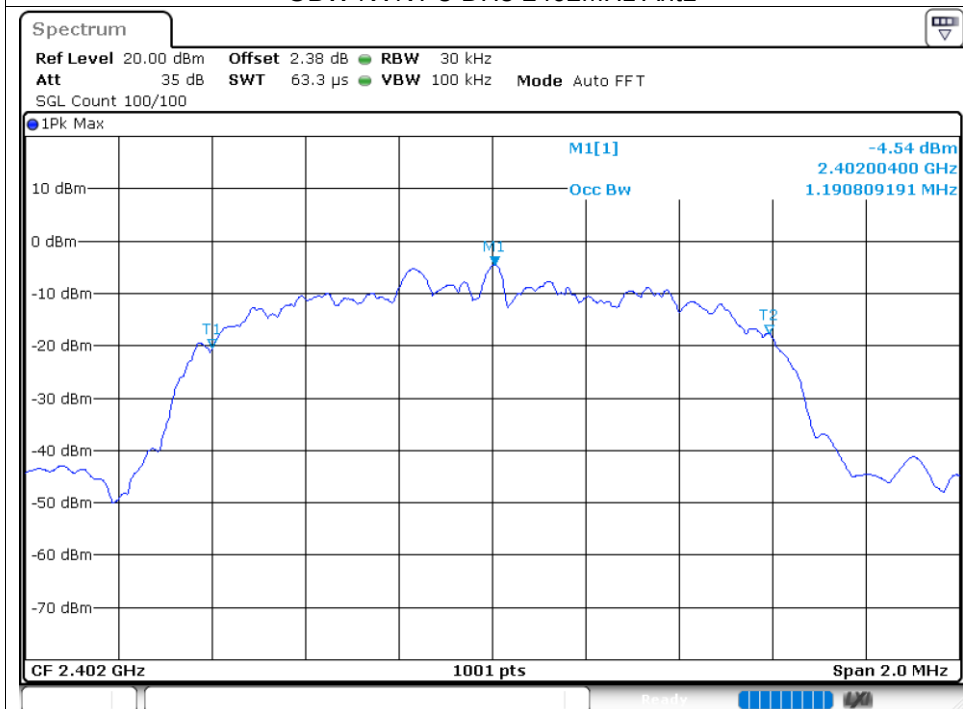
OBW NVNT 2-DH5 2441MHz Ant1



OBW NVNT 2-DH5 2480MHz Ant1

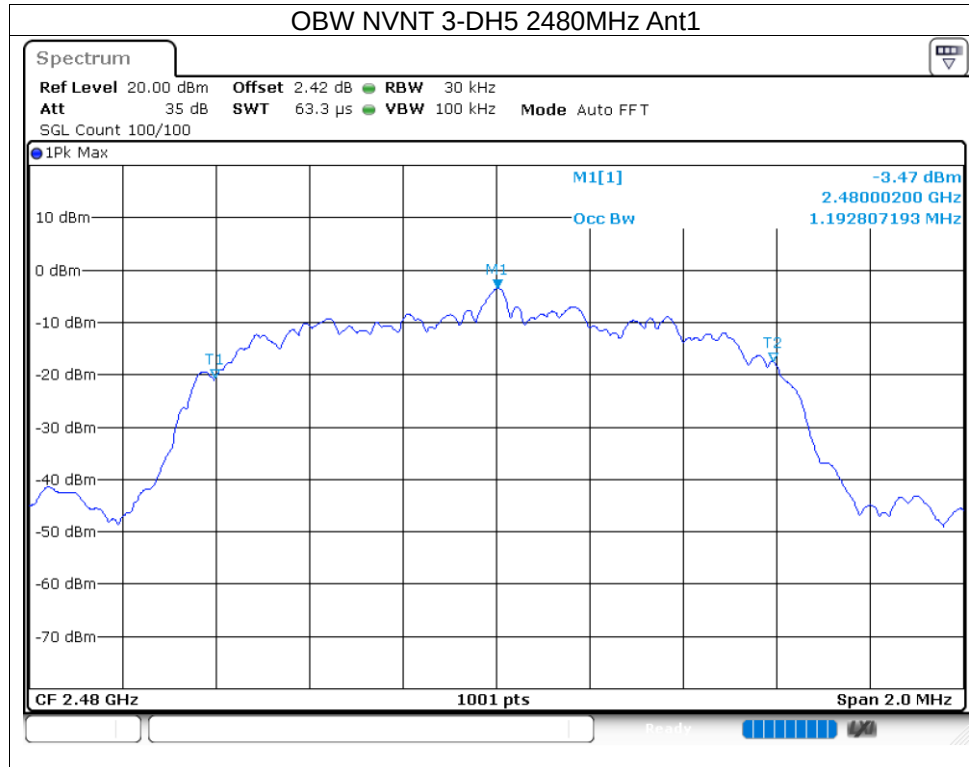


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



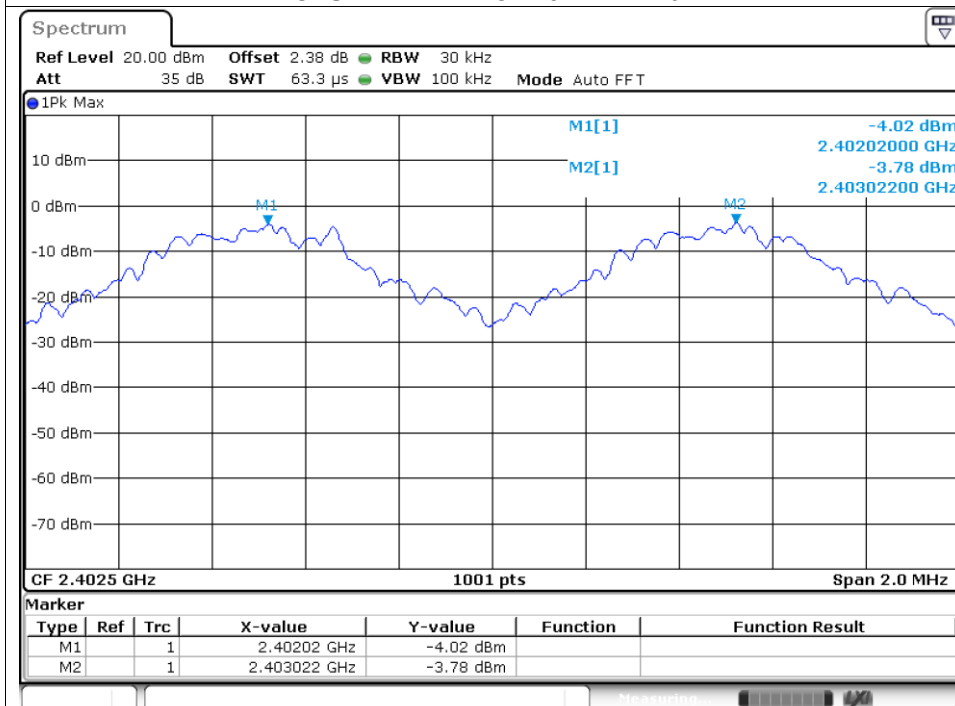


8.5 CARRIER FREQUENCIES SEPARATION

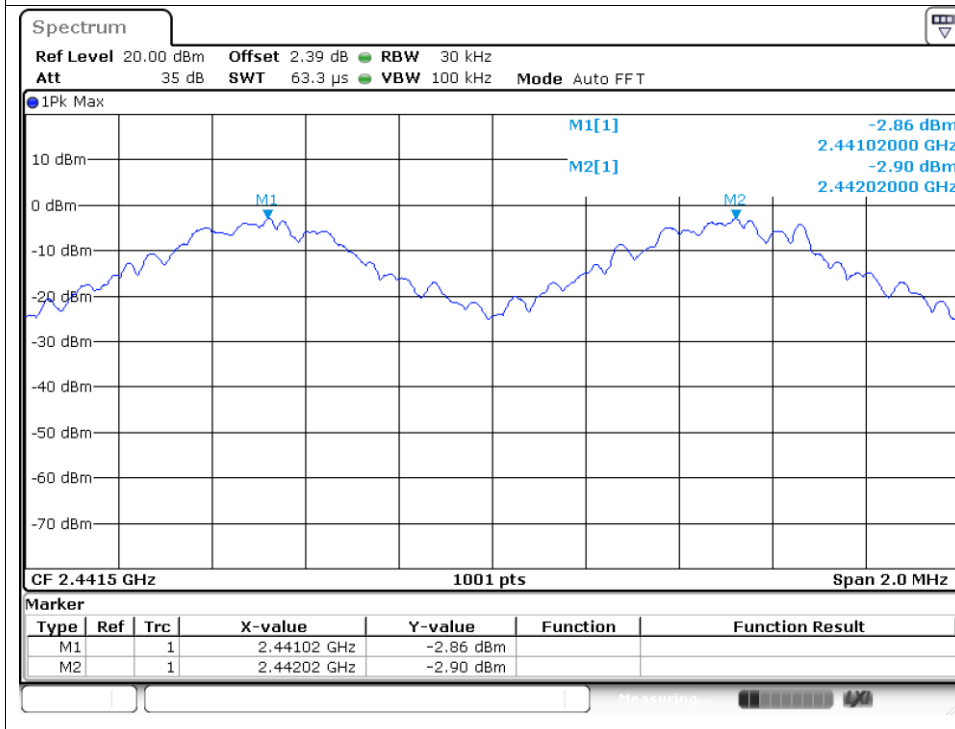
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.02	2403.022	1.002	0.627	Pass
NVNT	1-DH5	Ant1	2441.02	2442.02	1	0.58	Pass
NVNT	1-DH5	Ant1	2478.83	2479.83	1	0.624	Pass
NVNT	2-DH5	Ant1	2402.02	2403.022	1.002	0.892	Pass
NVNT	2-DH5	Ant1	2441.006	2442.077	1.071	0.863	Pass
NVNT	2-DH5	Ant1	2479.007	2480.007	1	0.857	Pass
NVNT	3-DH5	Ant1	2402.02	2403.02	1	0.859	Pass
NVNT	3-DH5	Ant1	2441.008	2442.006	0.998	0.864	Pass
NVNT	3-DH5	Ant1	2479.022	2480.008	0.986	0.865	Pass

Test Graphs

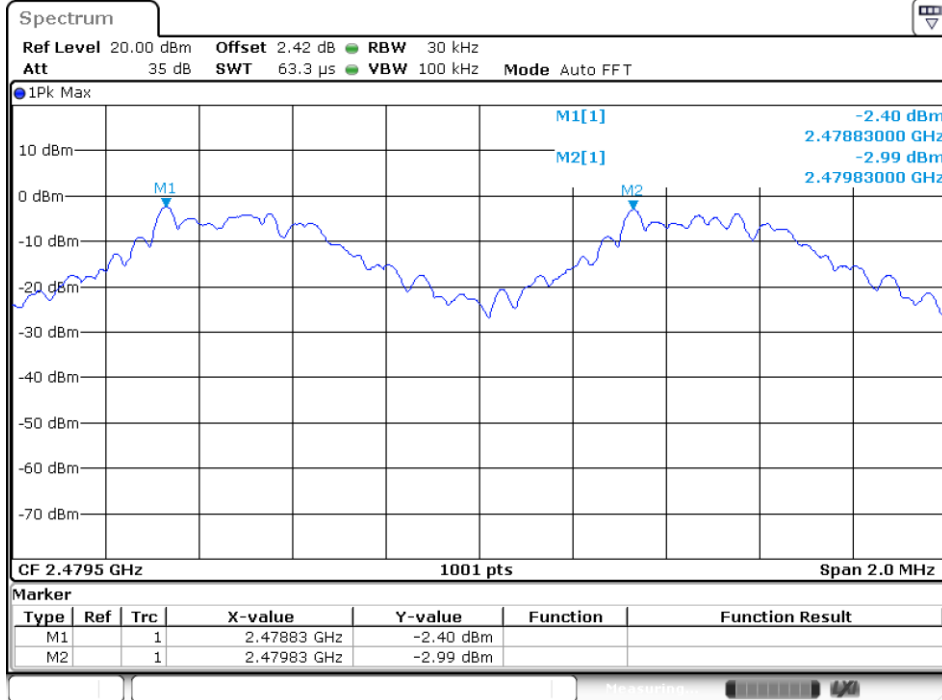
CFS NVNT 1-DH5 2402MHz Ant1



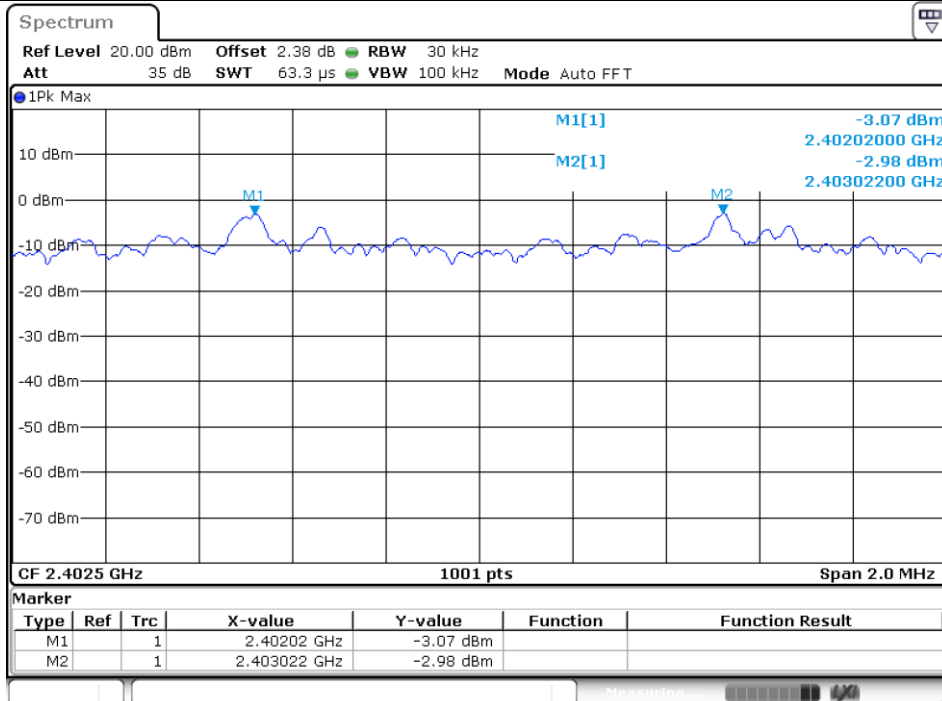
CFS NVNT 1-DH5 2441MHz Ant1



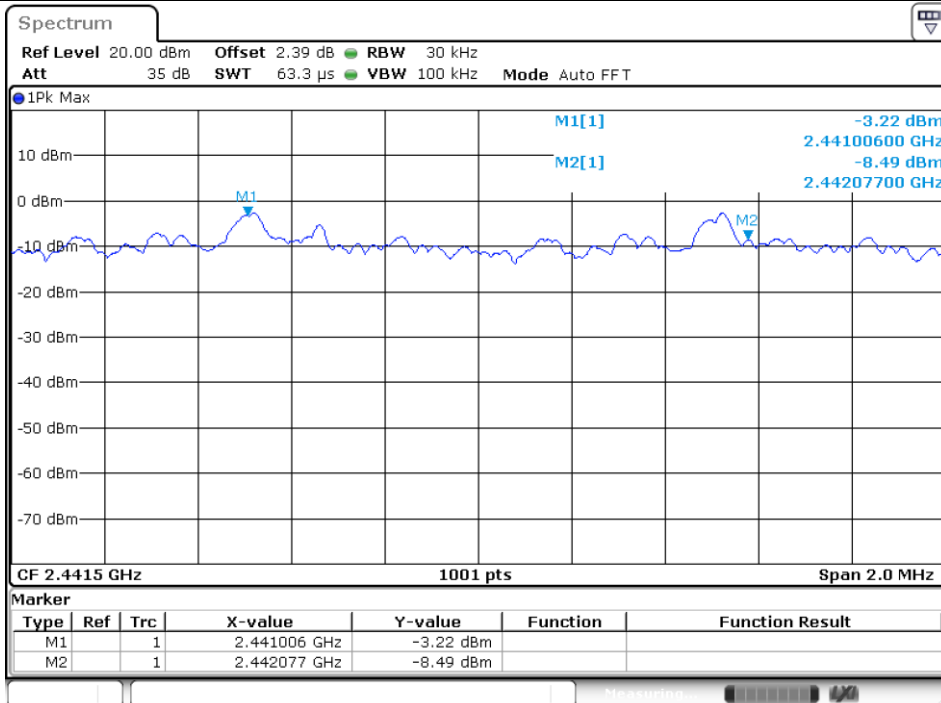
CFS NVNT 1-DH5 2480MHz Ant1



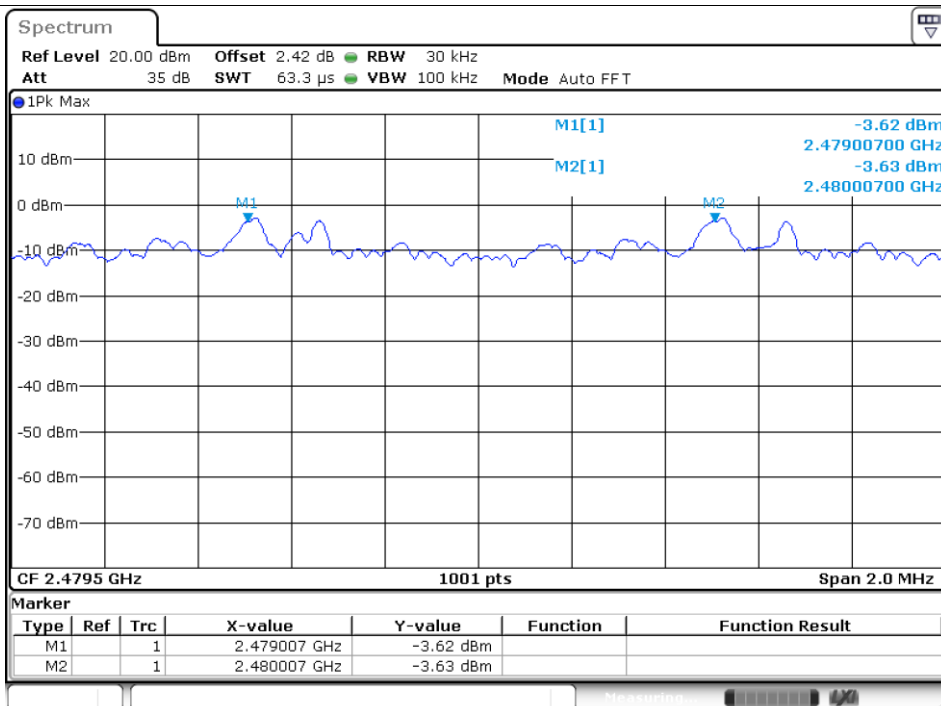
CFS NVNT 2-DH5 2402MHz Ant1



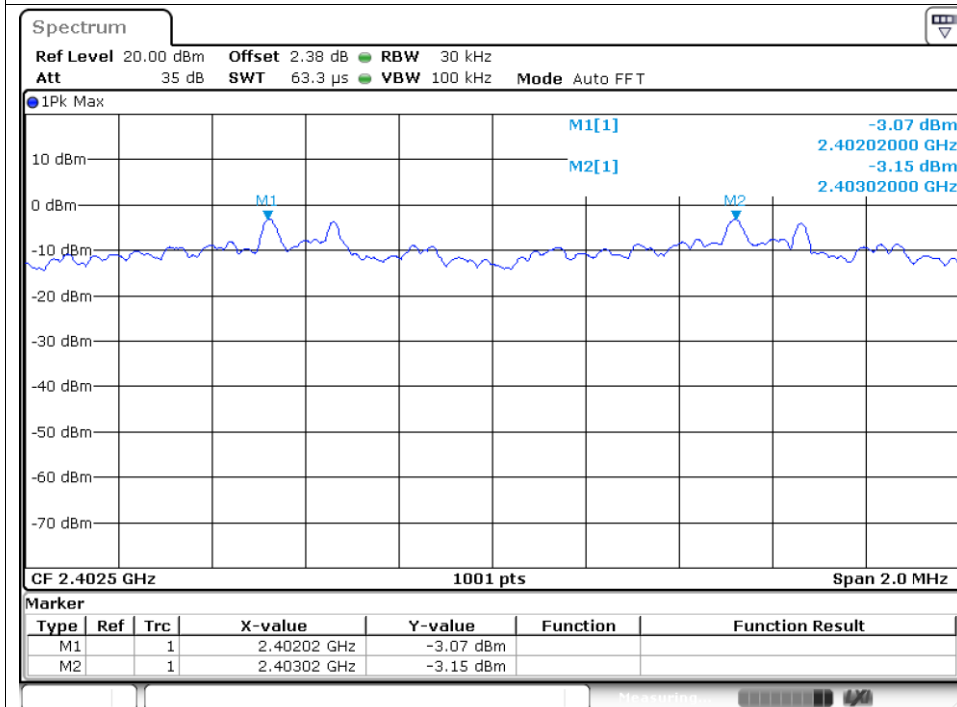
CFS NVNT 2-DH5 2441MHz Ant1



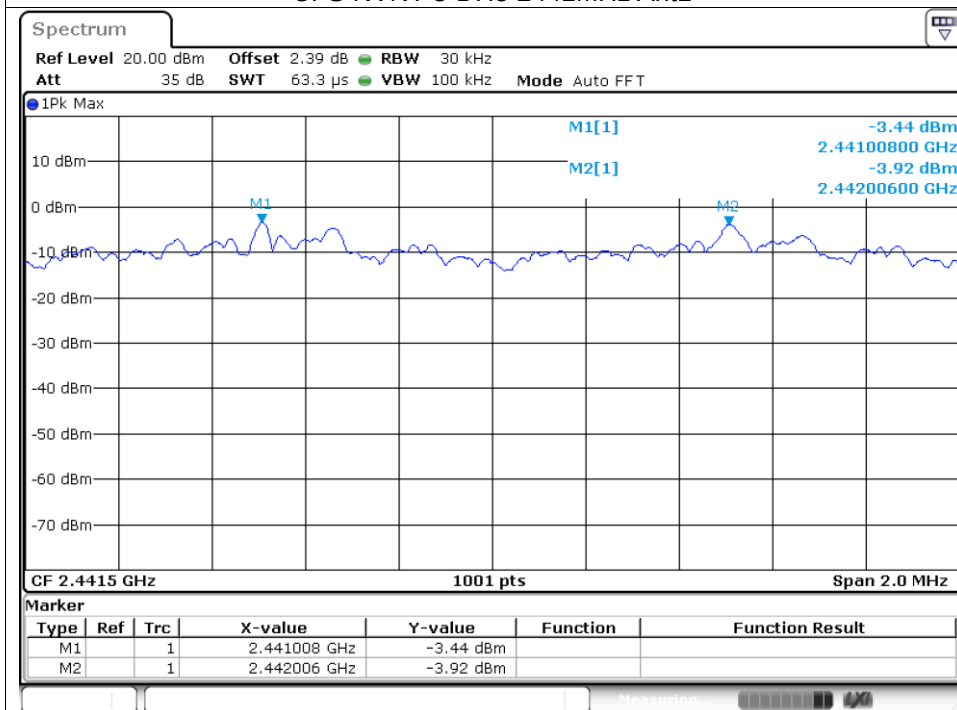
CFS NVNT 2-DH5 2480MHz Ant1

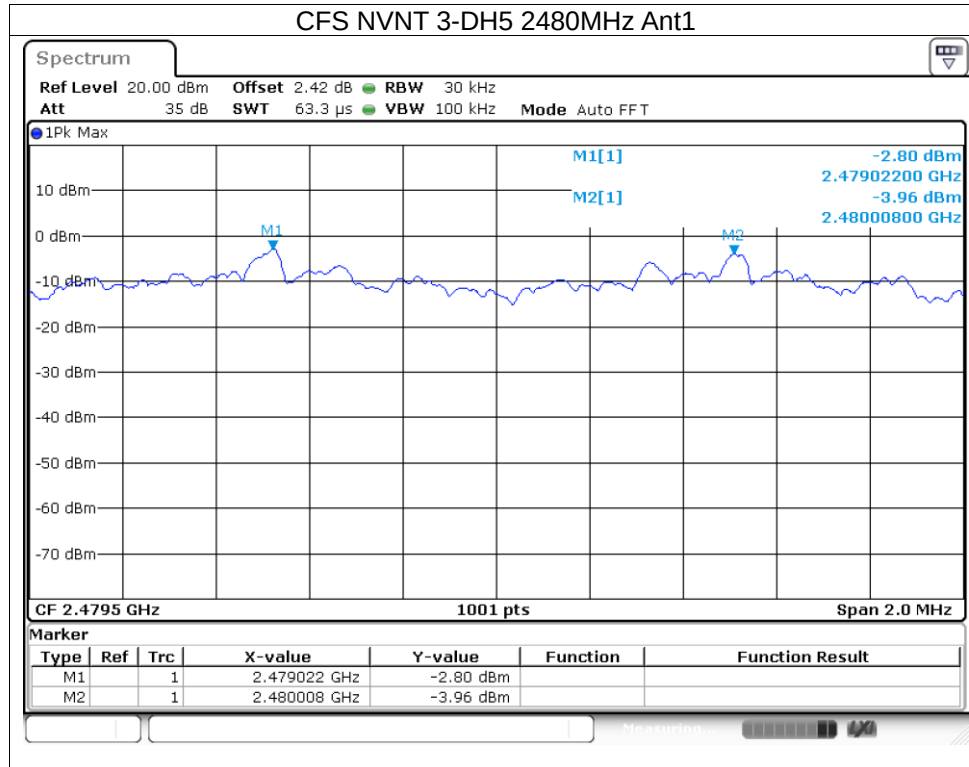


CFS NVNT 3-DH5 2402MHz Ant1



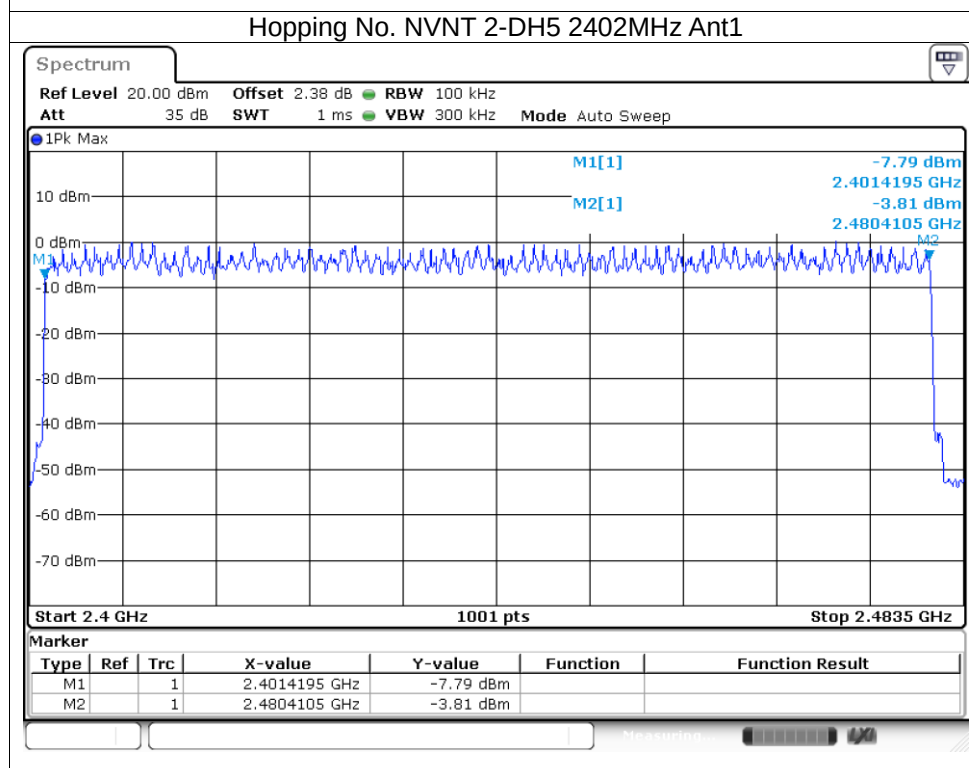
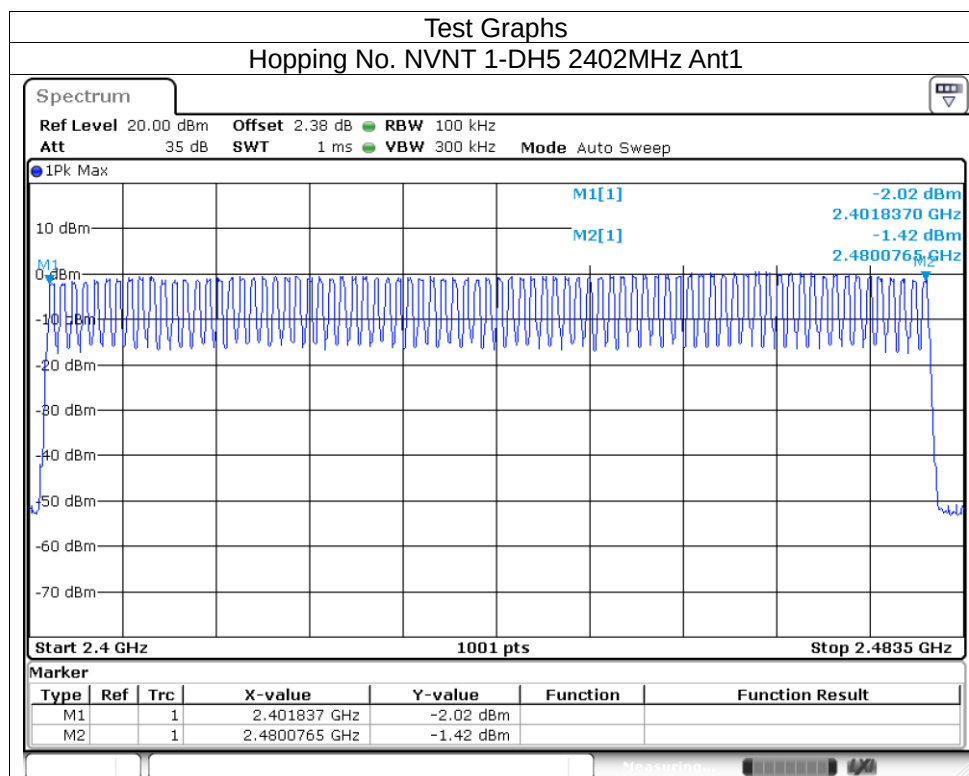
CFS NVNT 3-DH5 2441MHz Ant1

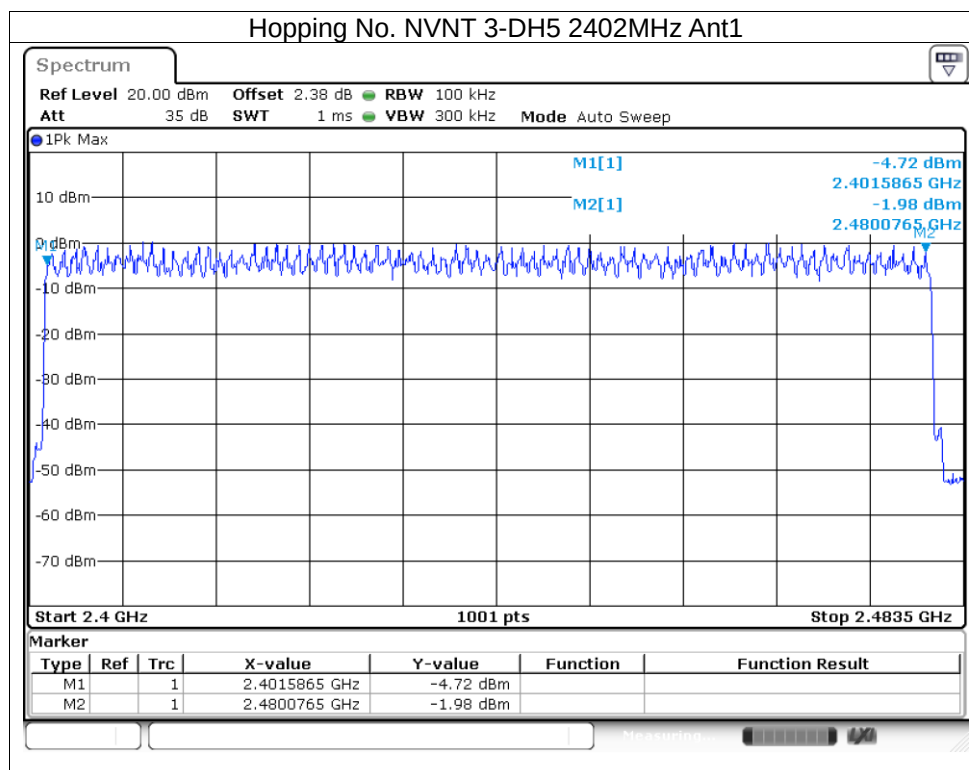




8.6 NUMBER OF HOPPING CHANNEL

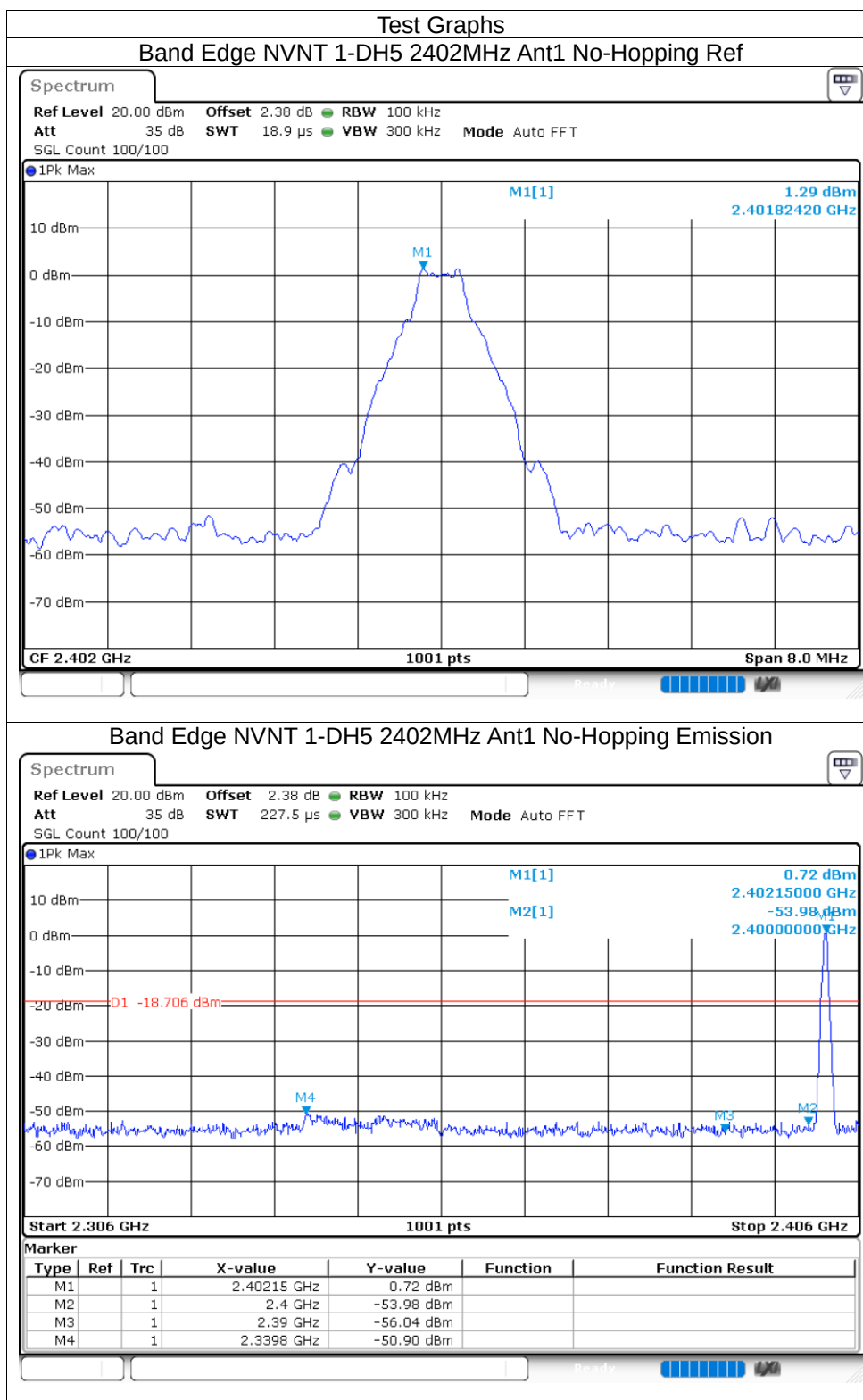
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass





8.7 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-52.18	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-53.27	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-48.62	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-49.65	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-48.25	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.93	-20	Pass

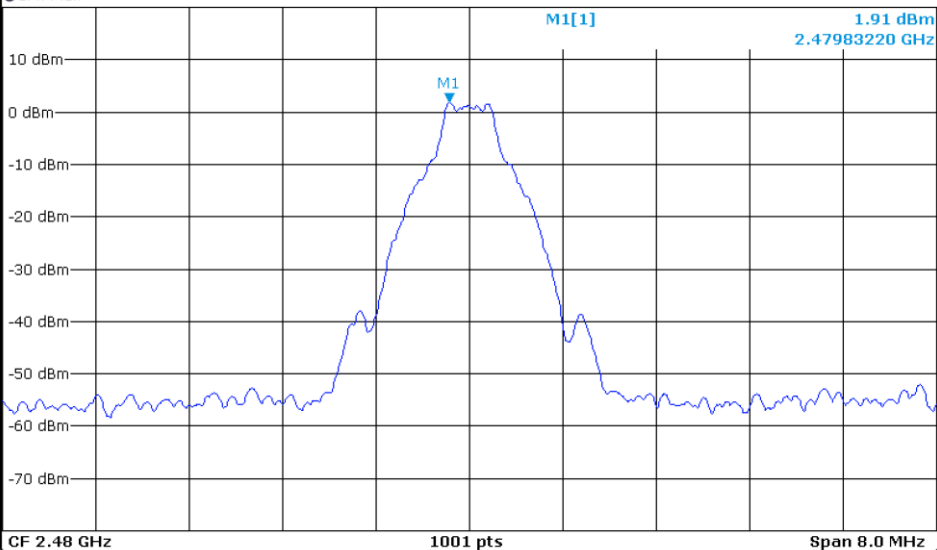


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

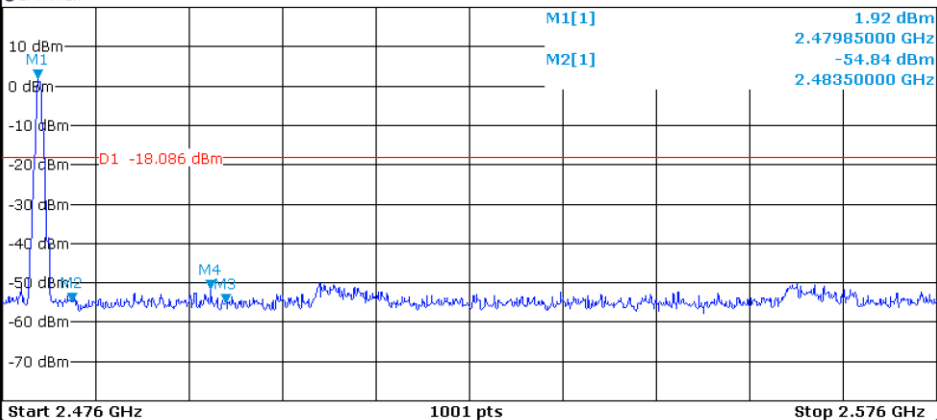


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



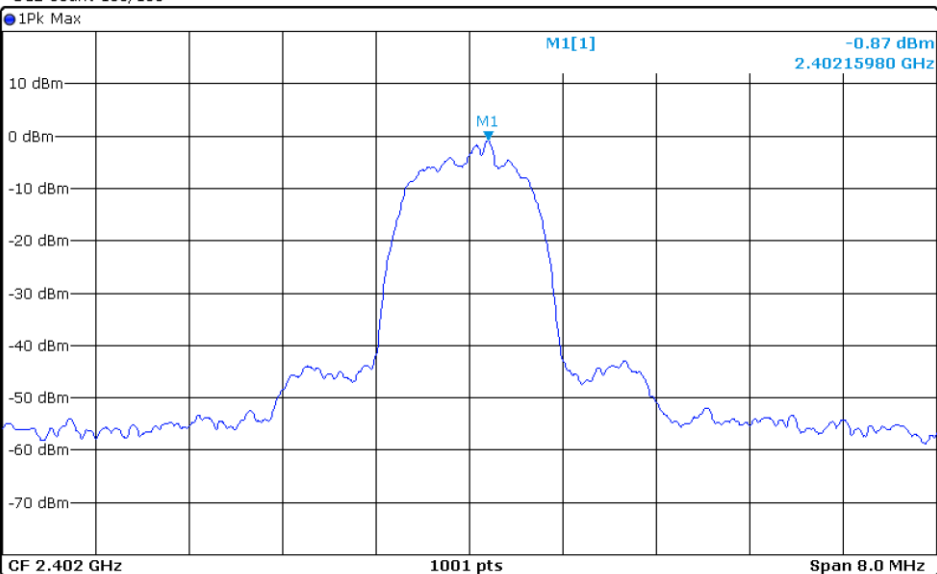
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47985 GHz	1.92 dBm		
M2		1	2.4835 GHz	-54.84 dBm		
M3		1	2.5 GHz	-54.99 dBm		
M4		1	2.4983 GHz	-51.37 dBm		

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

Spectrum

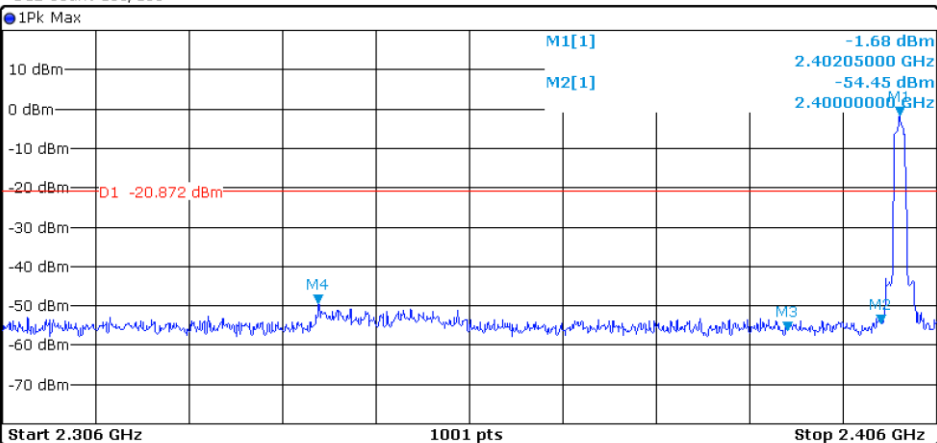
Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100



Marker

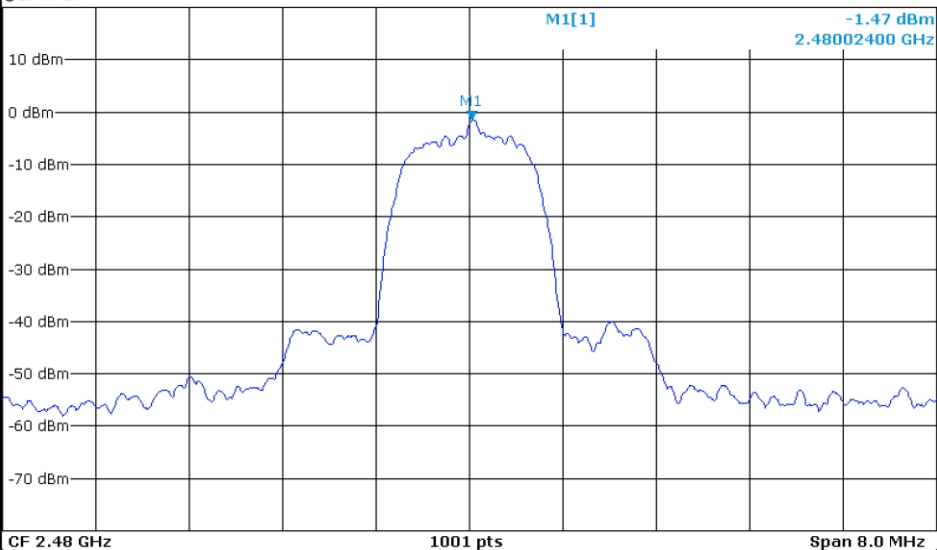
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40205 GHz	-1.68 dBm		
M2		1	2.4 GHz	-54.45 dBm		
M3		1	2.39 GHz	-56.43 dBm		
M4		1	2.3398 GHz	-49.50 dBm		

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

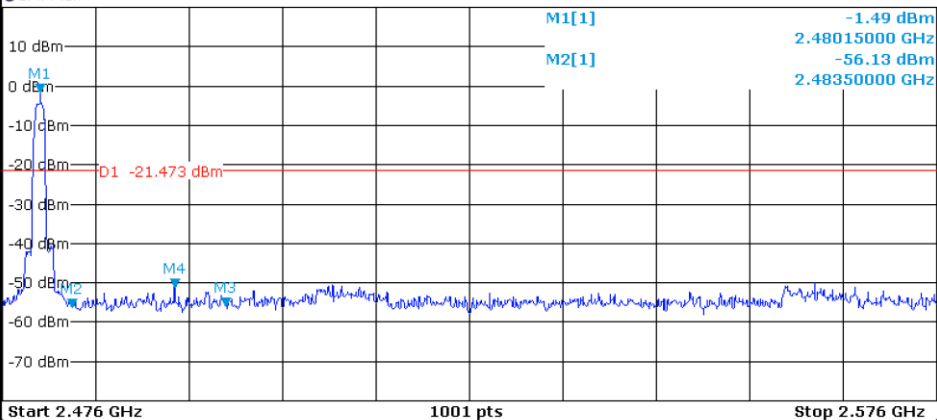


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

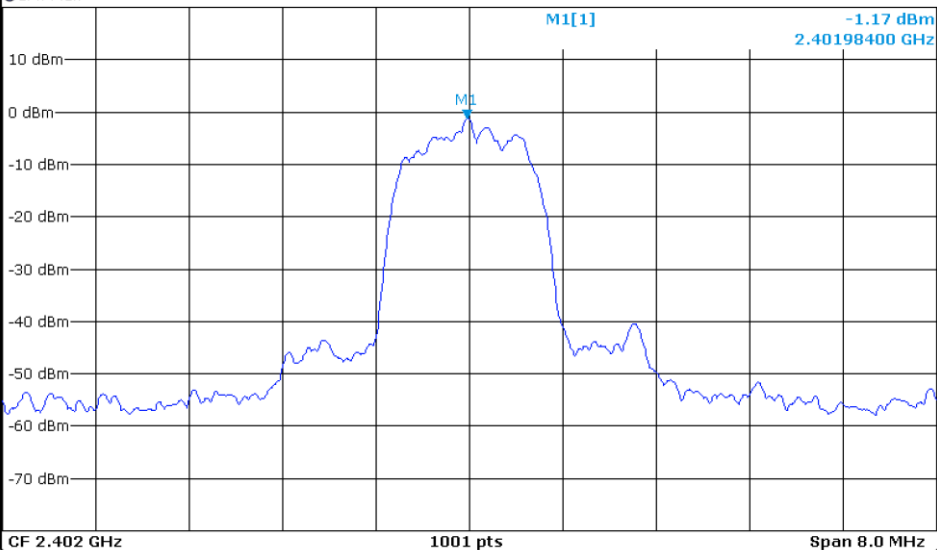
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48015 GHz	-1.49 dBm		
M2		1	2.4835 GHz	-56.13 dBm		
M3		1	2.5 GHz	-55.98 dBm		
M4		1	2.4945 GHz	-51.13 dBm		

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

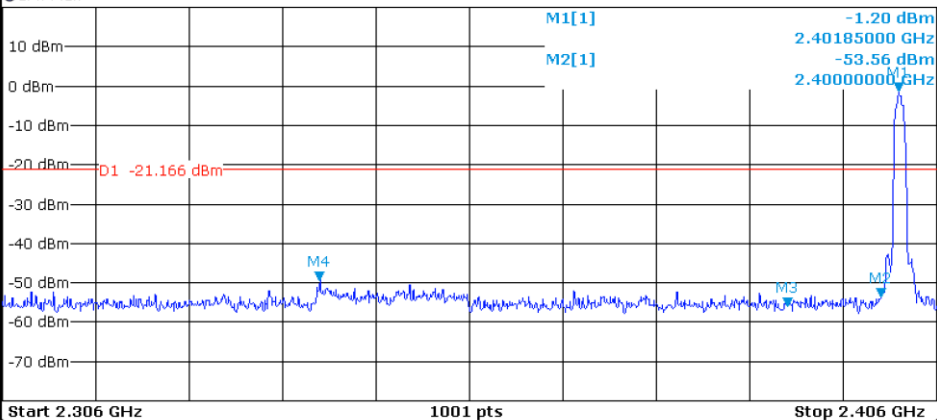


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

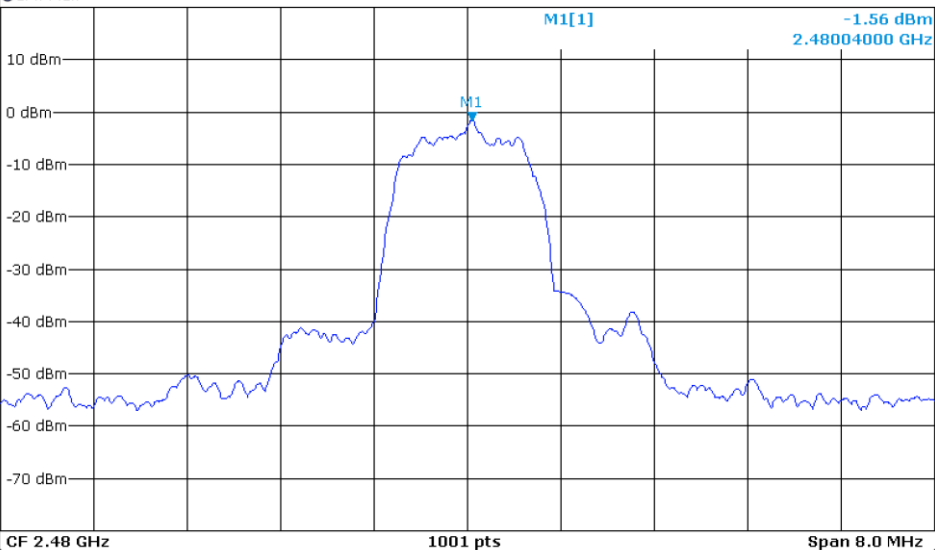
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40185 GHz	-1.20 dBm		
M2		1	2.4 GHz	-53.56 dBm		
M3		1	2.39 GHz	-56.02 dBm		
M4		1	2.34 GHz	-49.43 dBm		

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

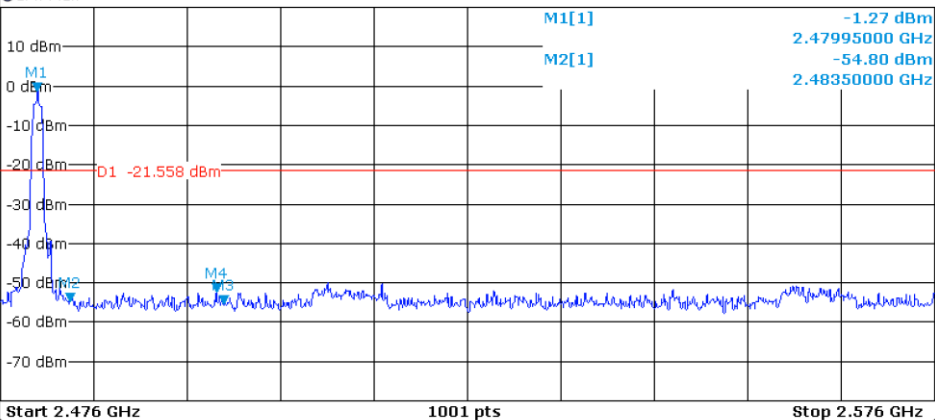


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

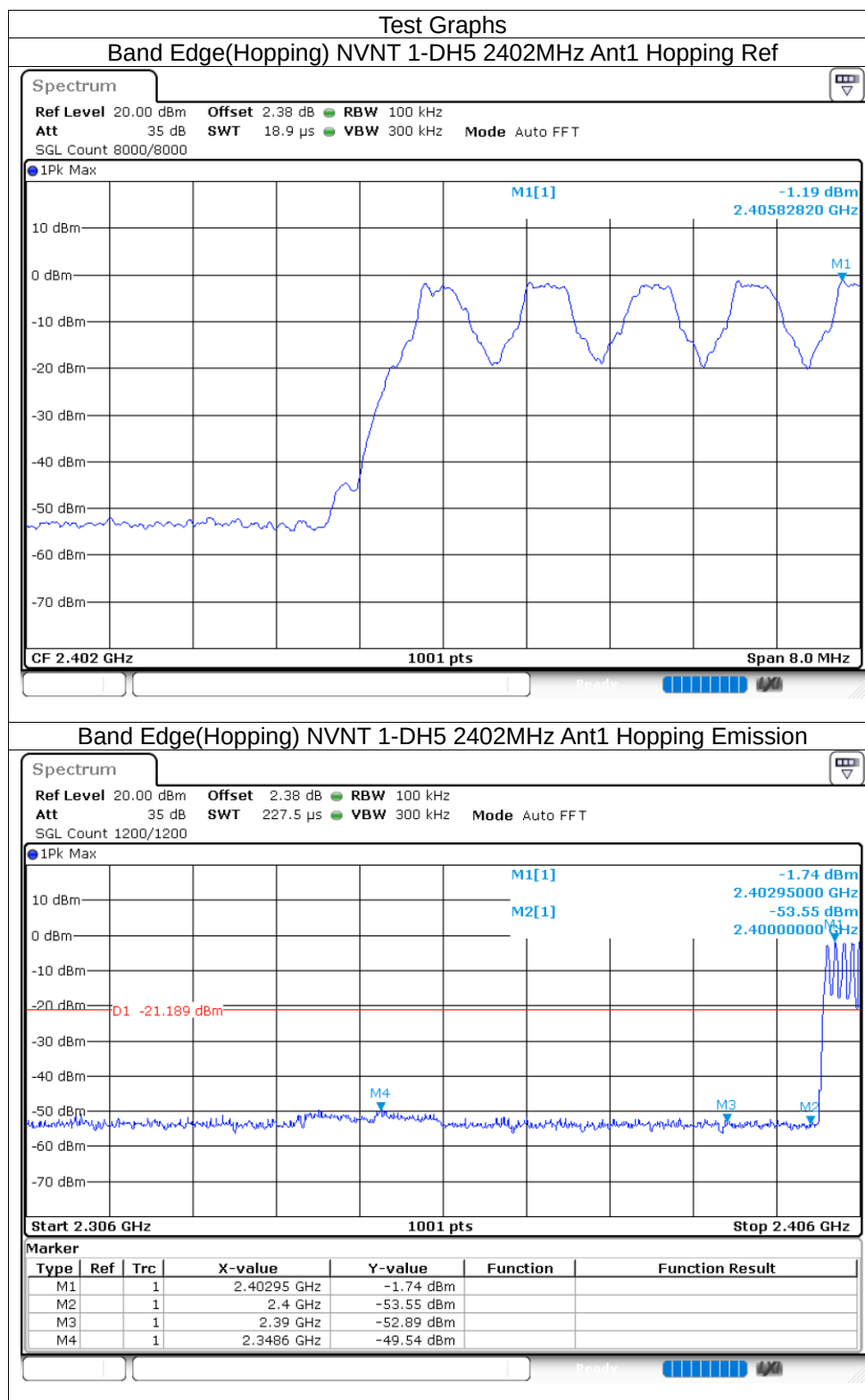


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47995 GHz	-1.27 dBm		
M2		1	2.4835 GHz	-54.80 dBm		
M3		1	2.5 GHz	-55.25 dBm		
M4		1	2.4992 GHz	-52.50 dBm		

8.8 BAND EDGE(HOPPING)

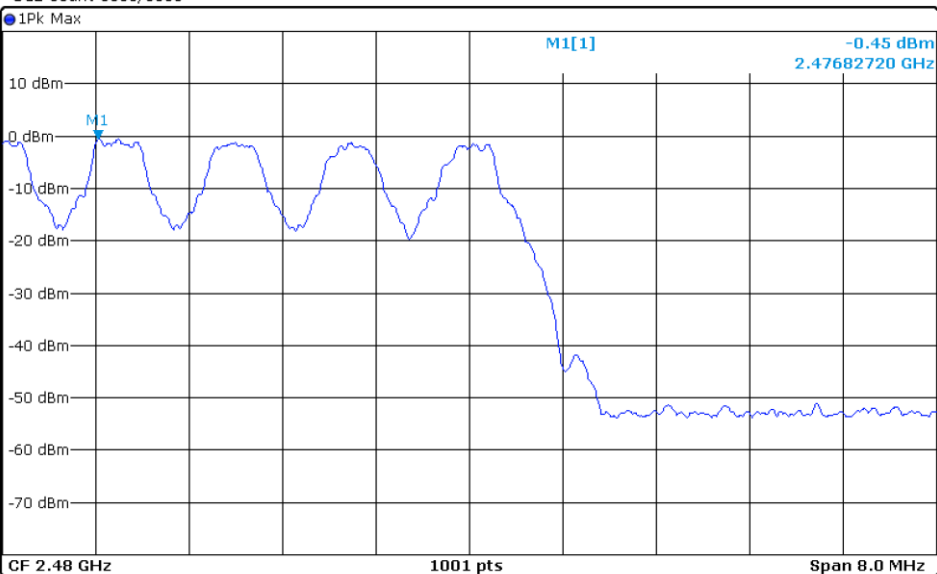
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.34	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.44	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-49.41	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-50.82	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-47.75	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.93	-20	Pass



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

Spectrum

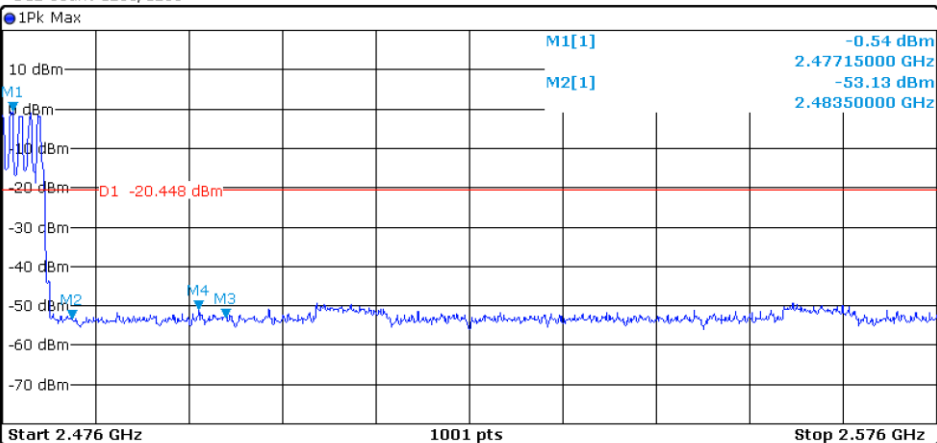
Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200



Marker

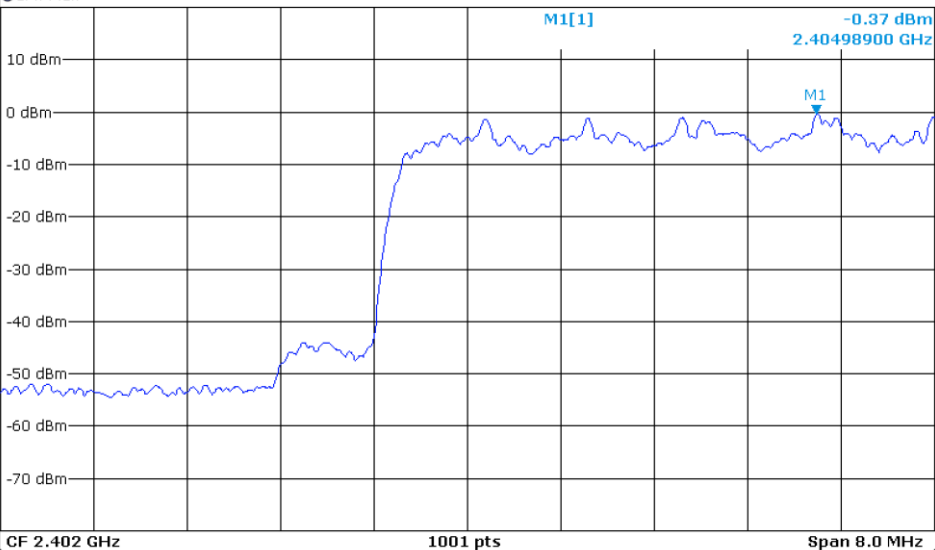
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.47715 GHz	-0.54 dBm		
M2	1		2.4835 GHz	-53.13 dBm		
M3	1		2.5 GHz	-53.01 dBm		
M4	1		2.497 GHz	-50.90 dBm		

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

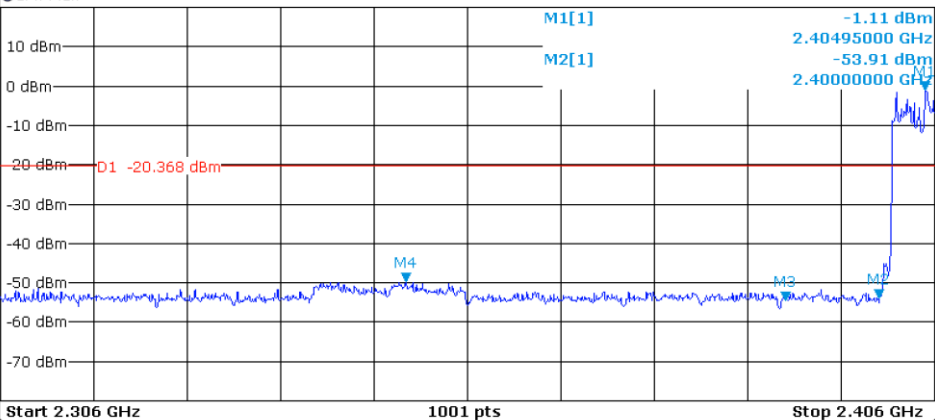


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

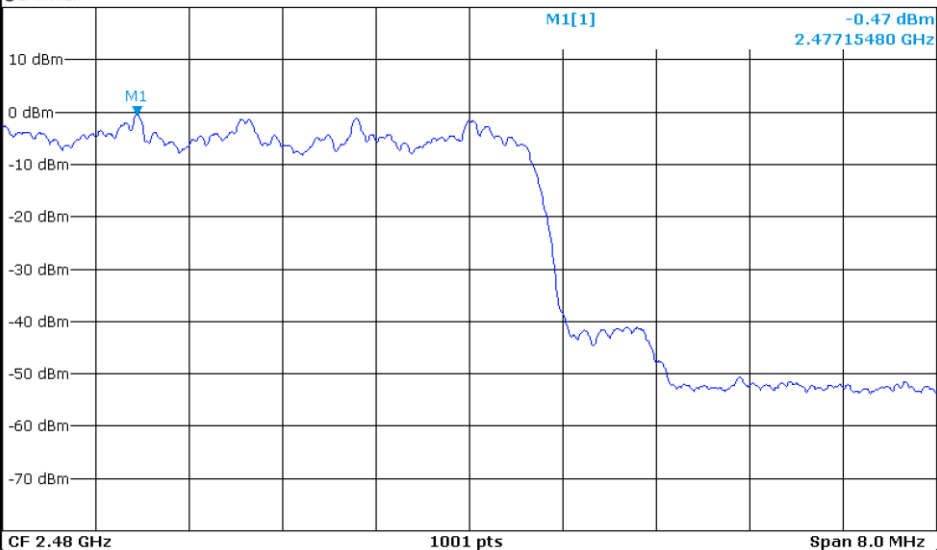
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40495 GHz	-1.11 dBm		
M2		1	2.4 GHz	-53.91 dBm		
M3		1	2.39 GHz	-54.40 dBm		
M4		1	2.3494 GHz	-49.78 dBm		

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

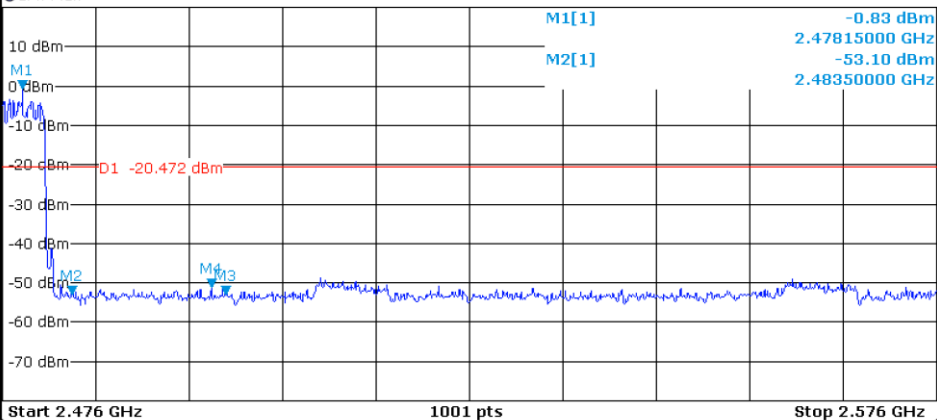


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

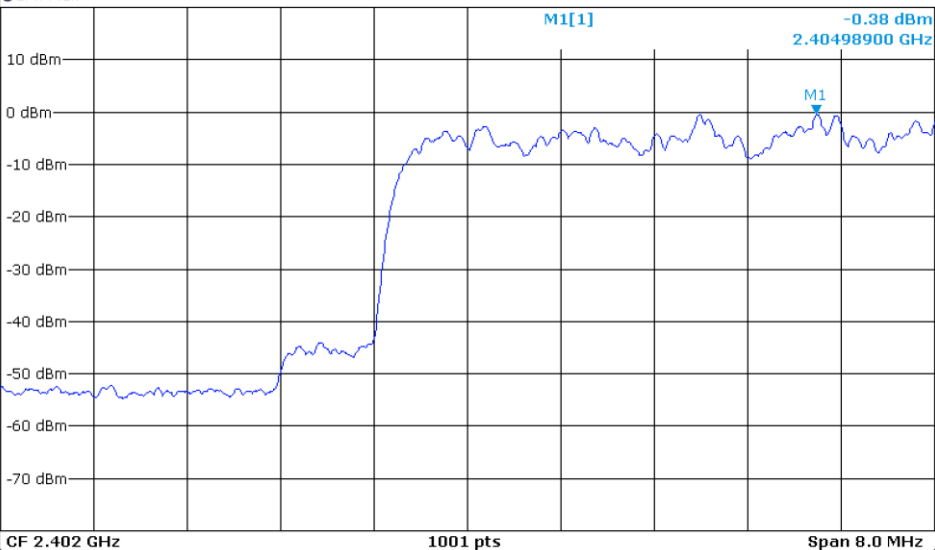
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47815 GHz	-0.83 dBm		
M2		1	2.4835 GHz	-53.10 dBm		
M3		1	2.5 GHz	-52.89 dBm		
M4		1	2.4984 GHz	-51.30 dBm		

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

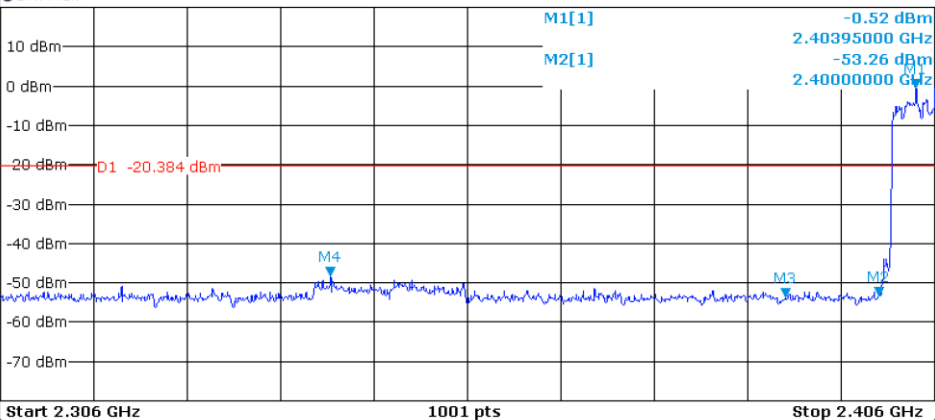


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

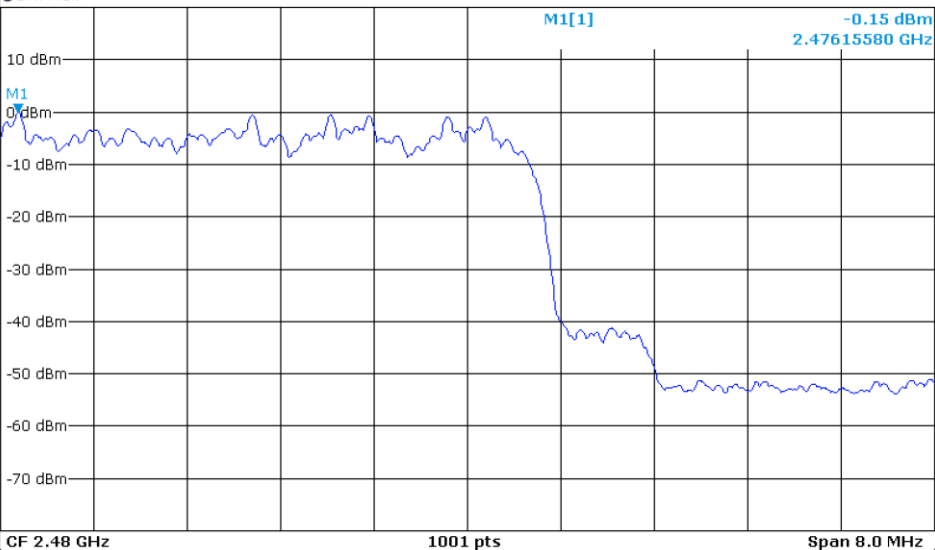
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40395 GHz	-0.52 dBm		
M2		1	2.4 GHz	-53.26 dBm		
M3		1	2.39 GHz	-53.45 dBm		
M4		1	2.3413 GHz	-48.13 dBm		

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

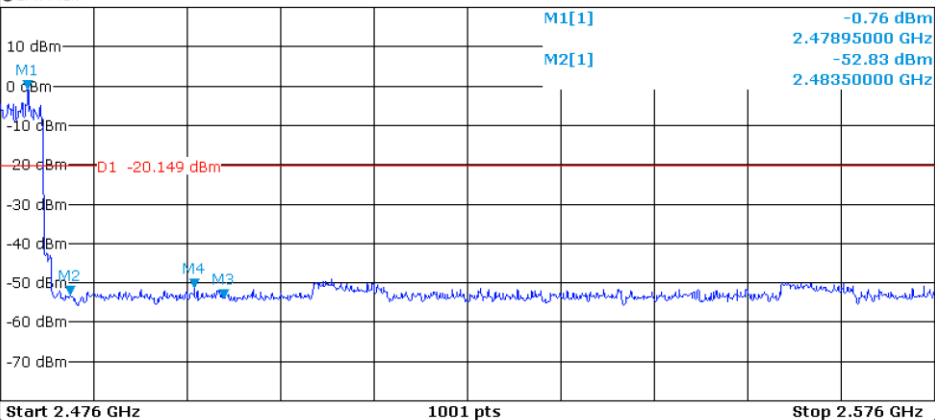


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

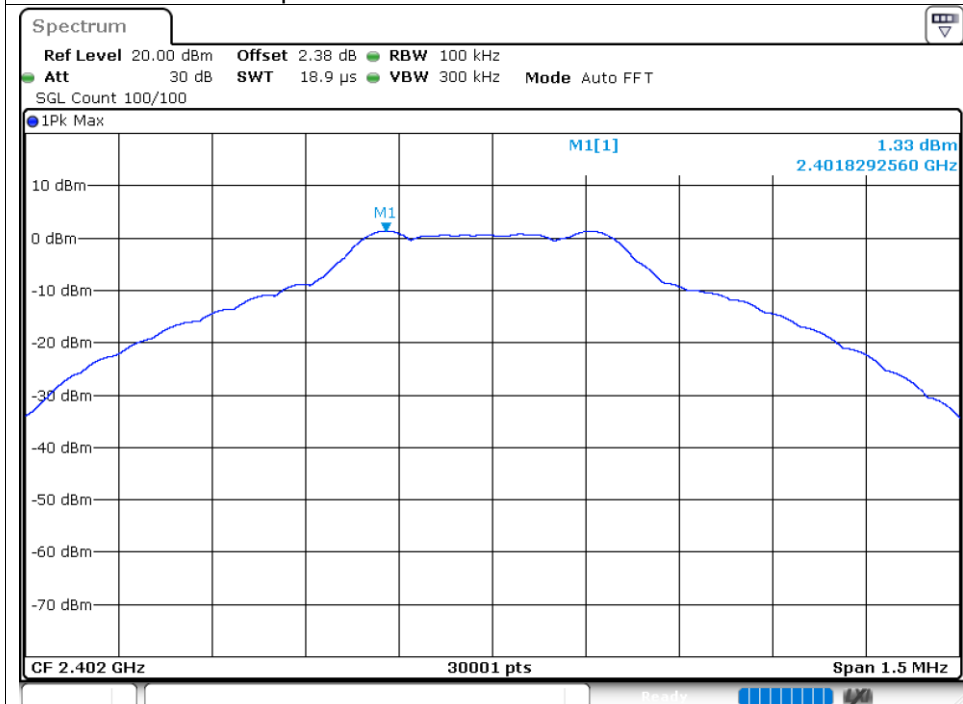
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47895 GHz	-0.76 dBm		
M2		1	2.4835 GHz	-52.83 dBm		
M3		1	2.5 GHz	-54.01 dBm		
M4		1	2.4968 GHz	-51.08 dBm		

8.9 CONDUCTED RF SPURIOUS EMISSION

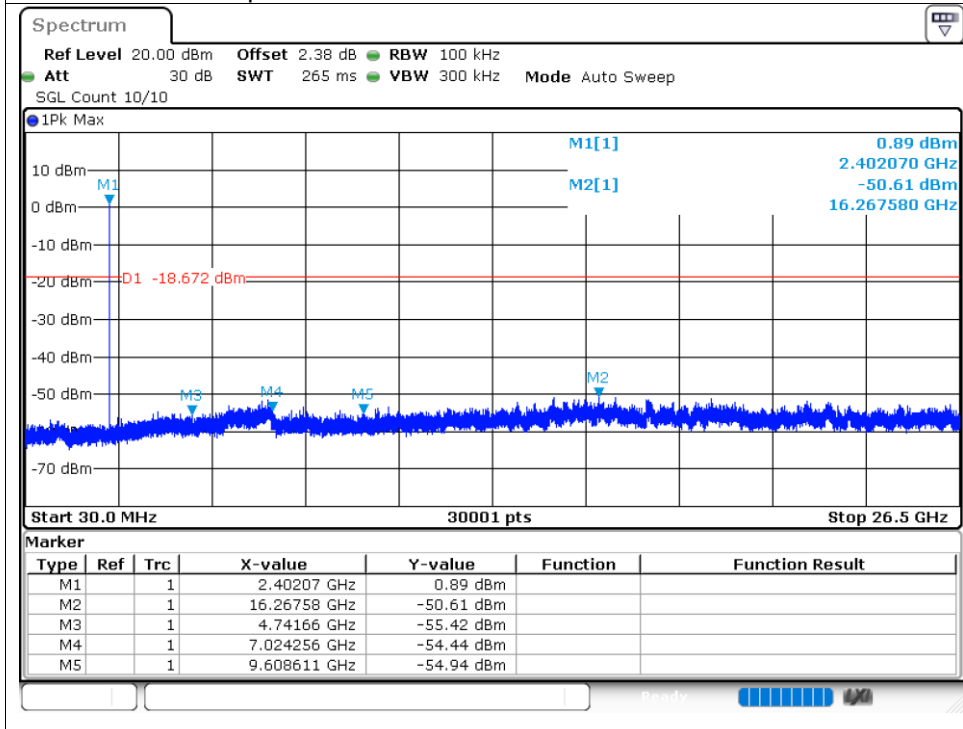
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.93	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.36	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.86	-20	Pass
NVNT	2-DH5	2402	Ant1	-50.13	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.11	-20	Pass
NVNT	2-DH5	2480	Ant1	-49.58	-20	Pass
NVNT	3-DH5	2402	Ant1	-50.21	-20	Pass
NVNT	3-DH5	2441	Ant1	-49.21	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.34	-20	Pass

Test Graphs

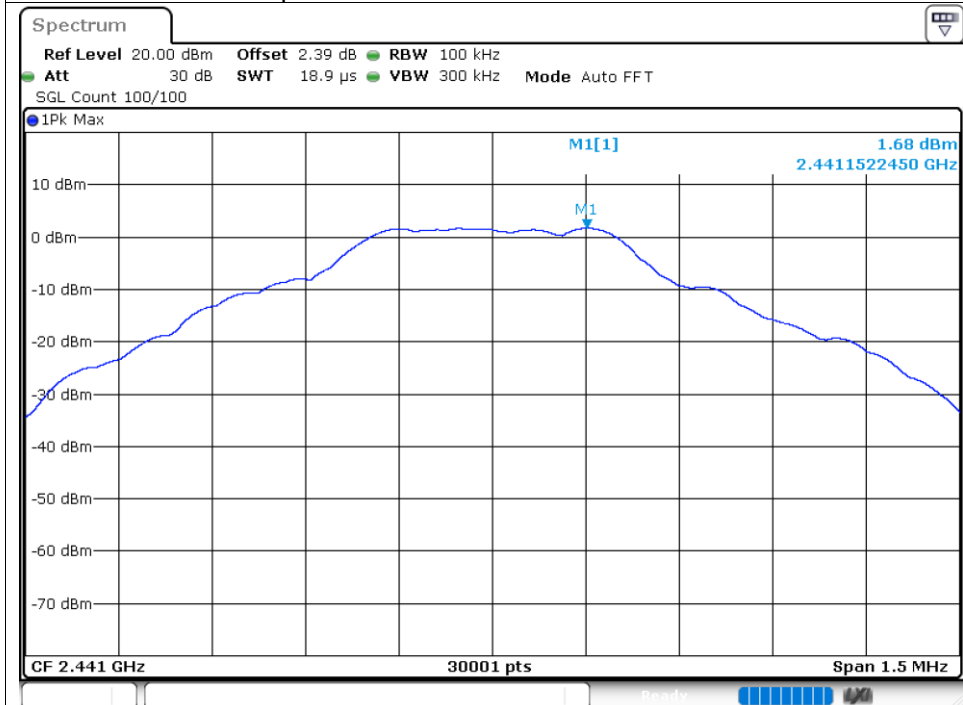
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



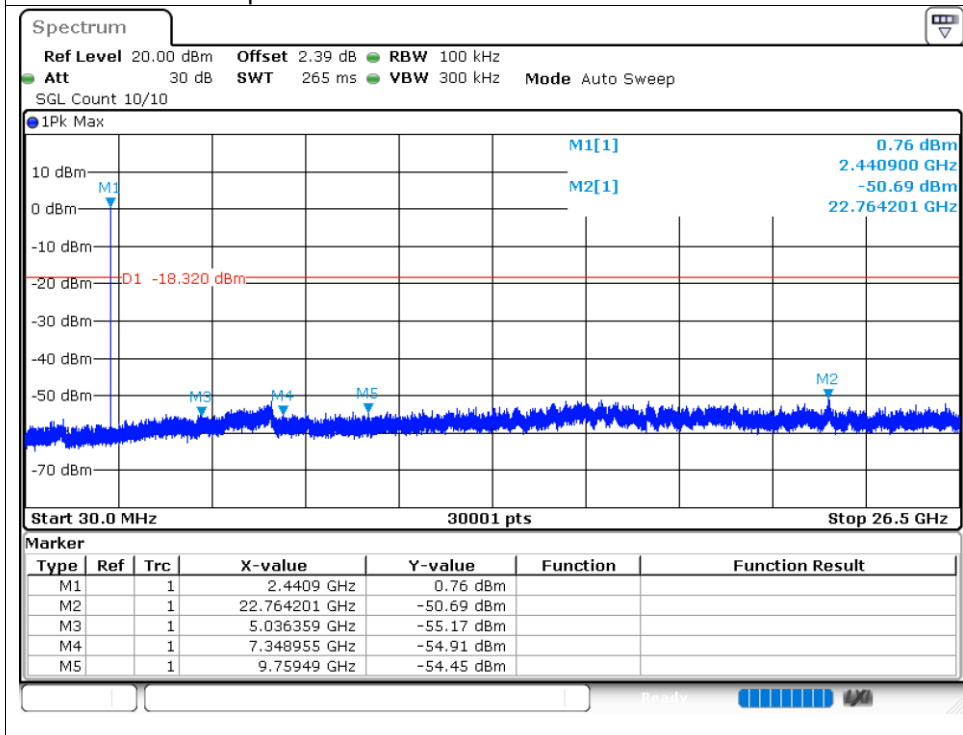
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



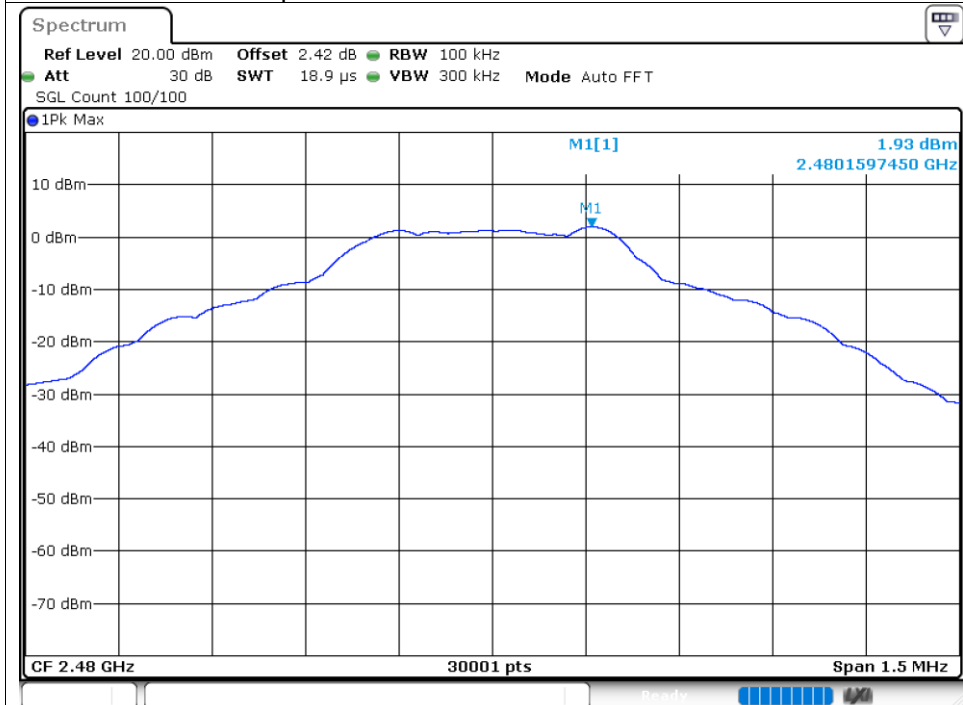
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



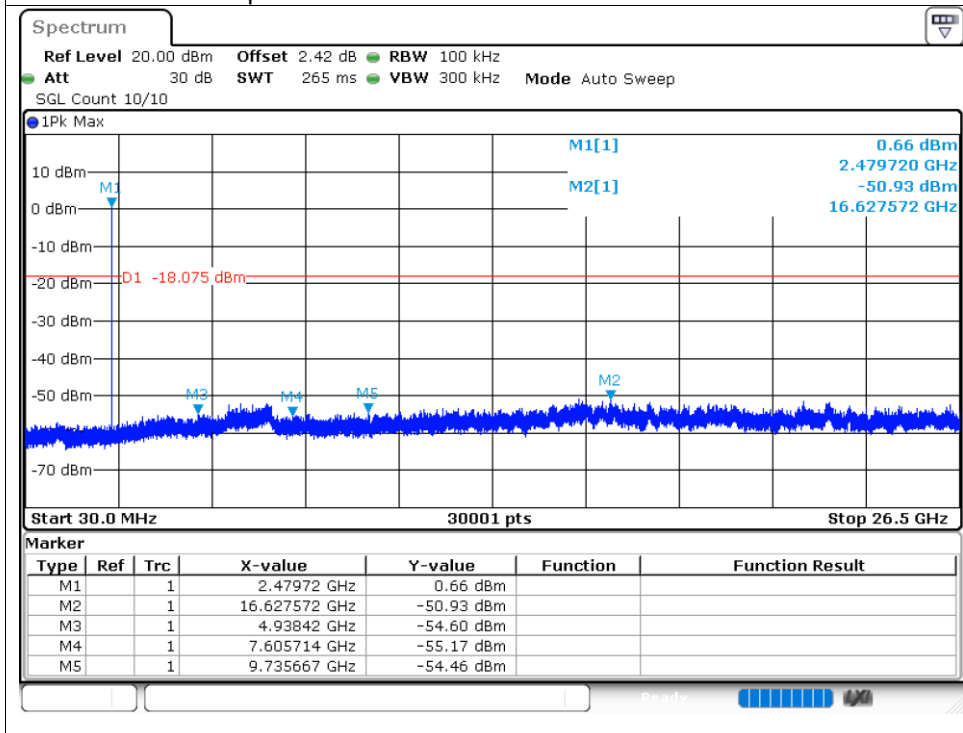
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



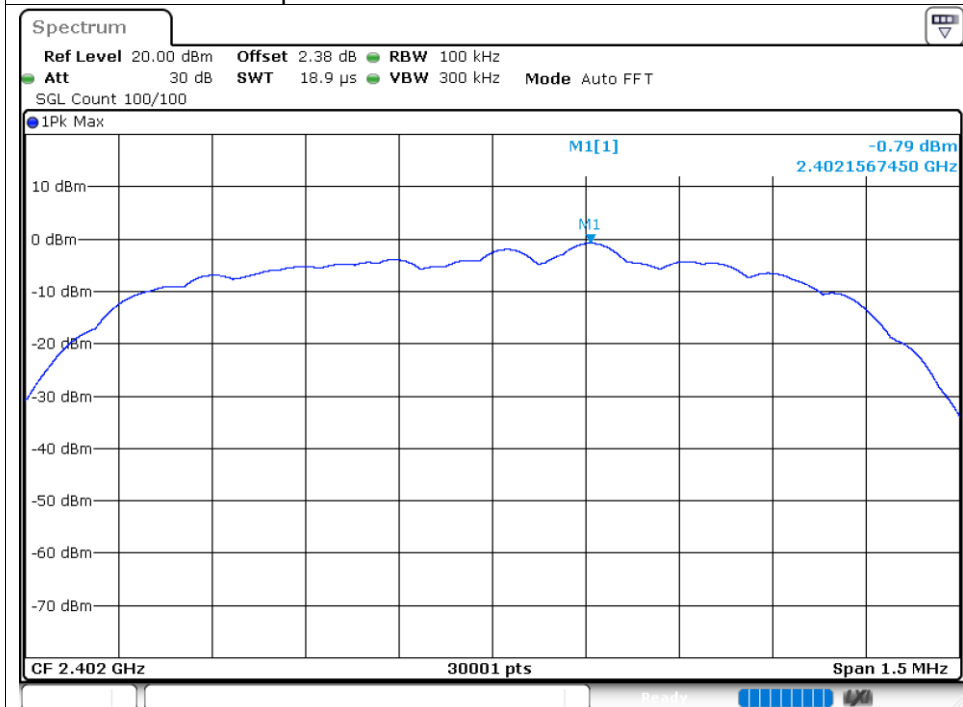
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



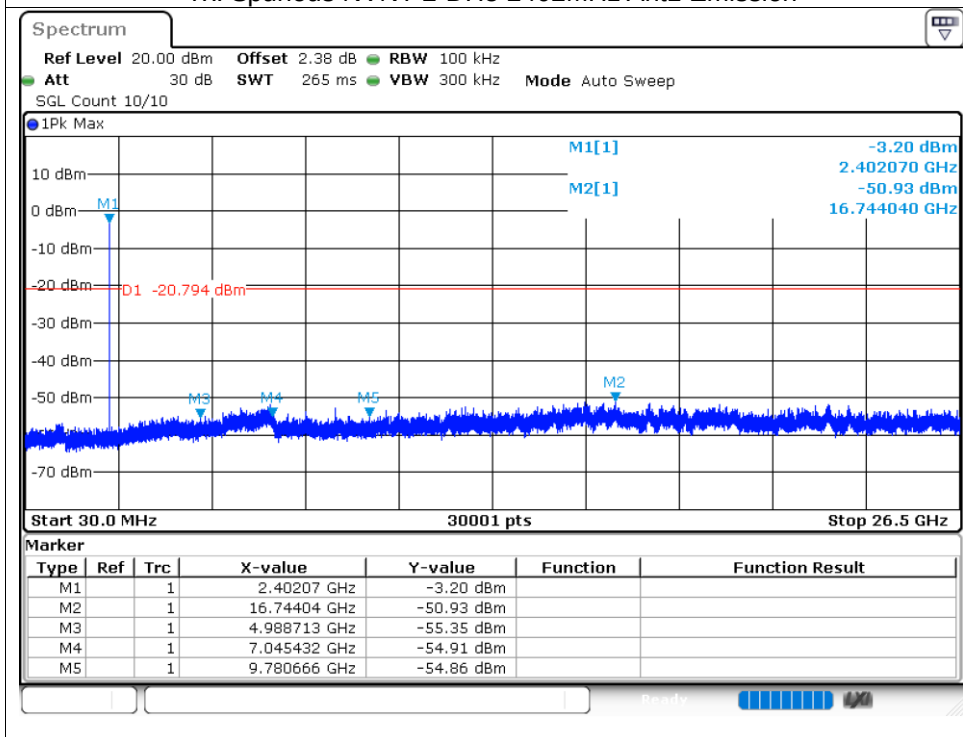
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



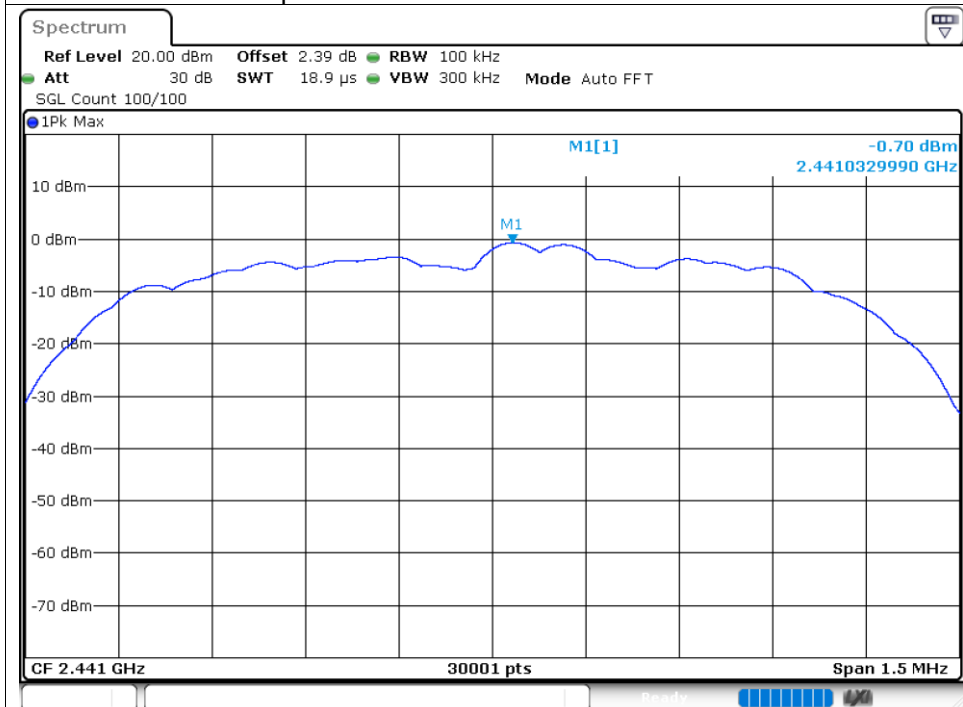
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



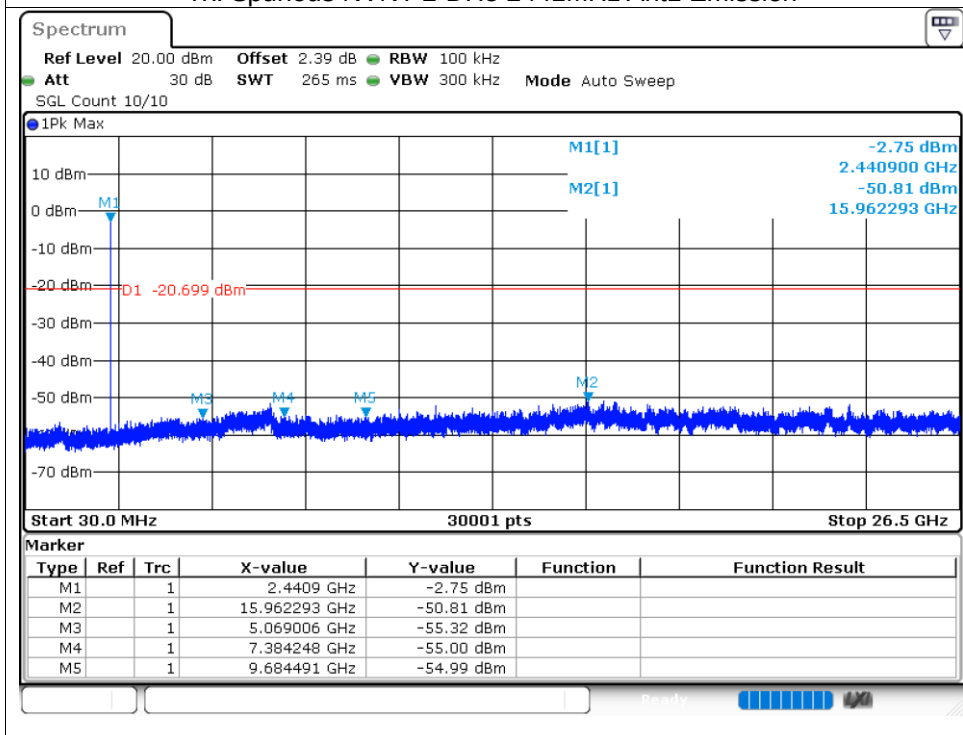
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



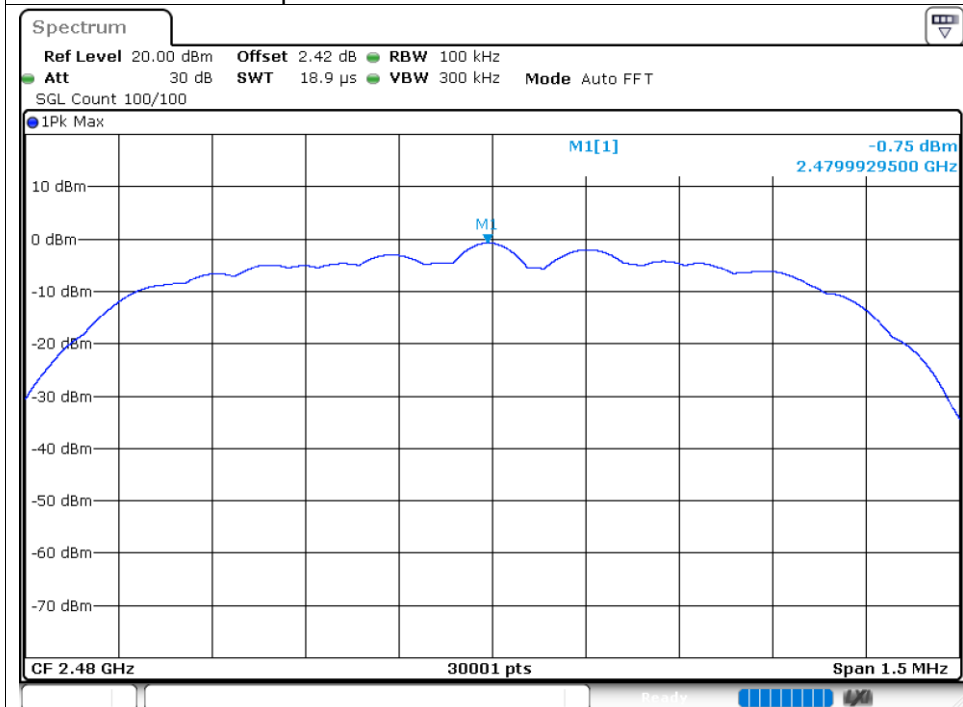
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



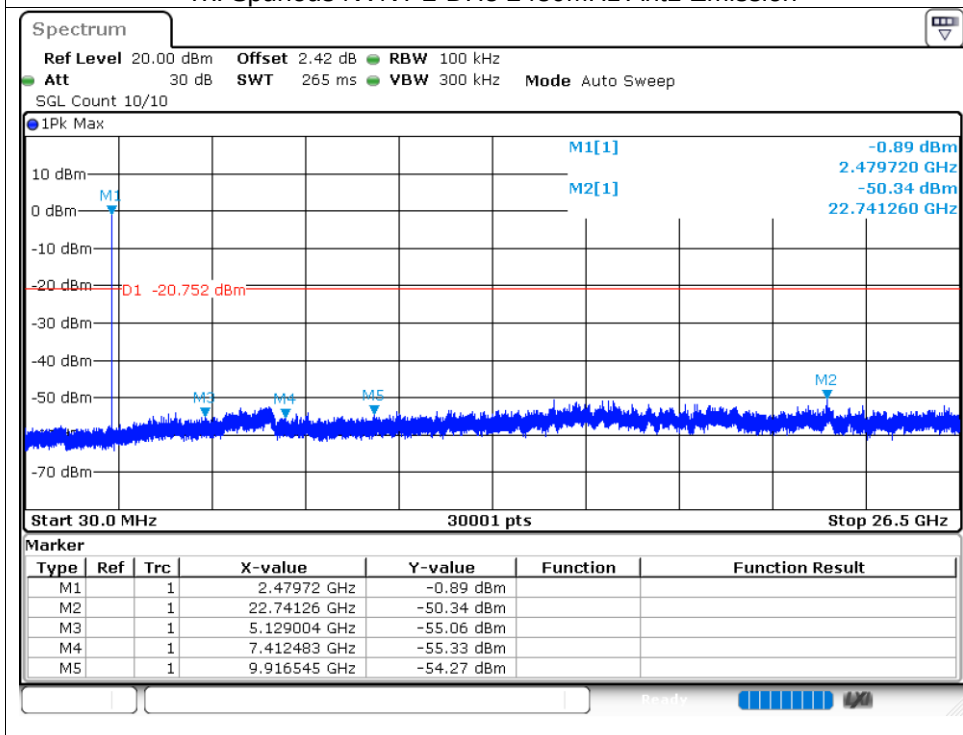
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



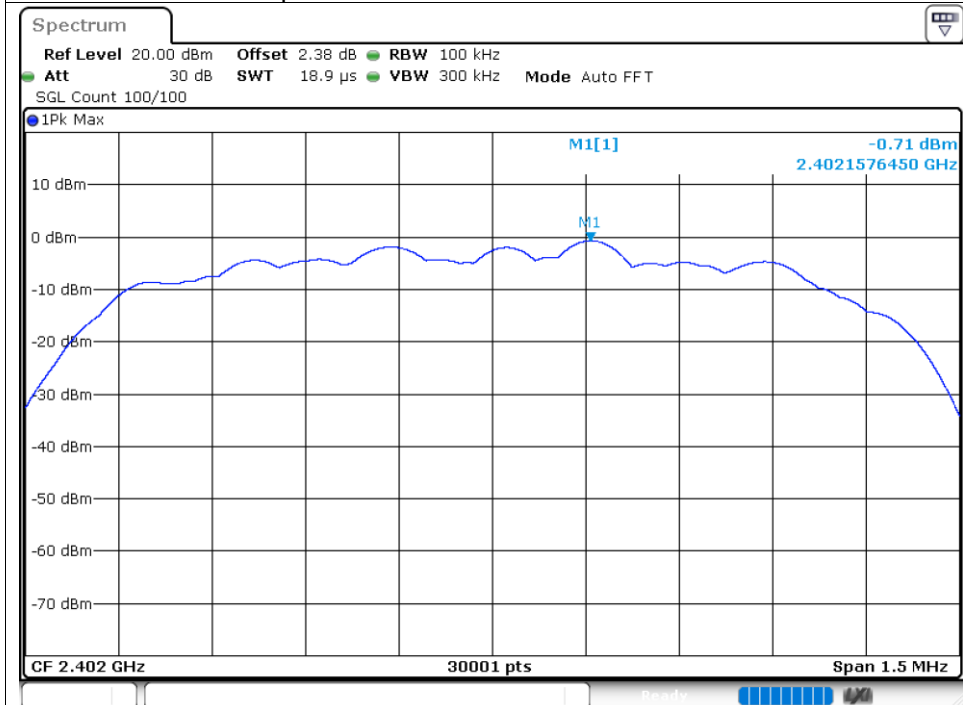
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



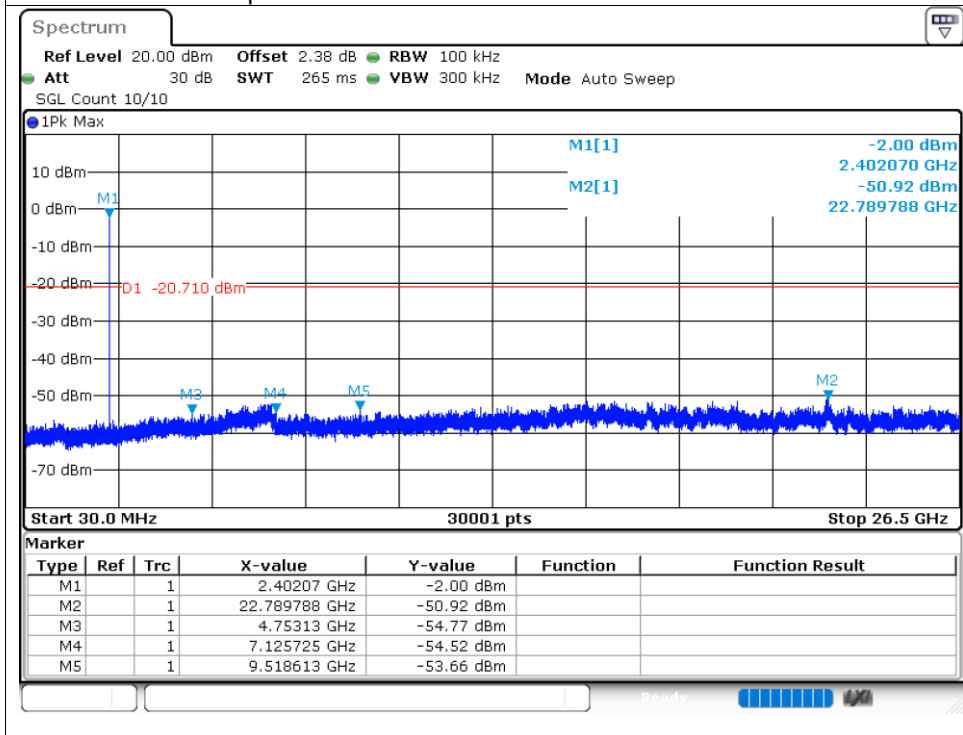
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



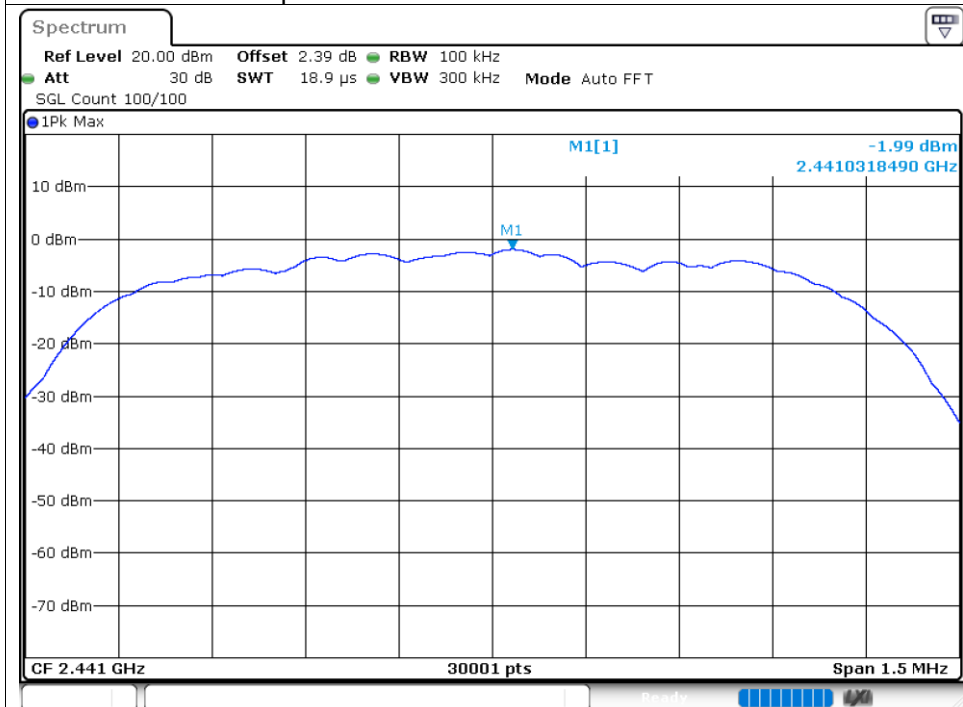
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



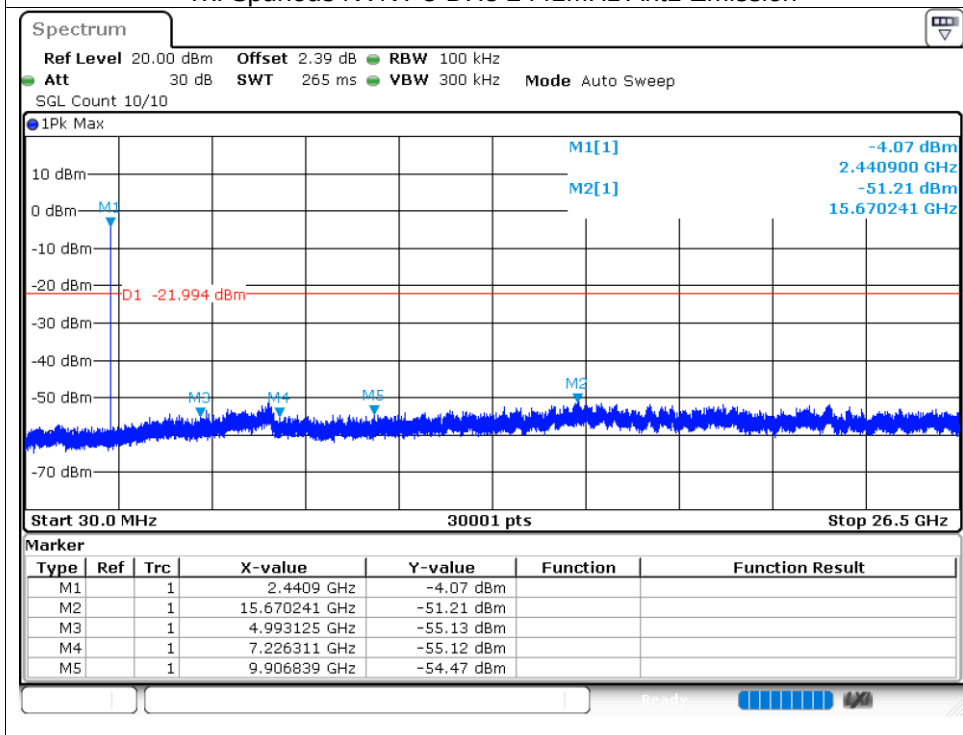
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



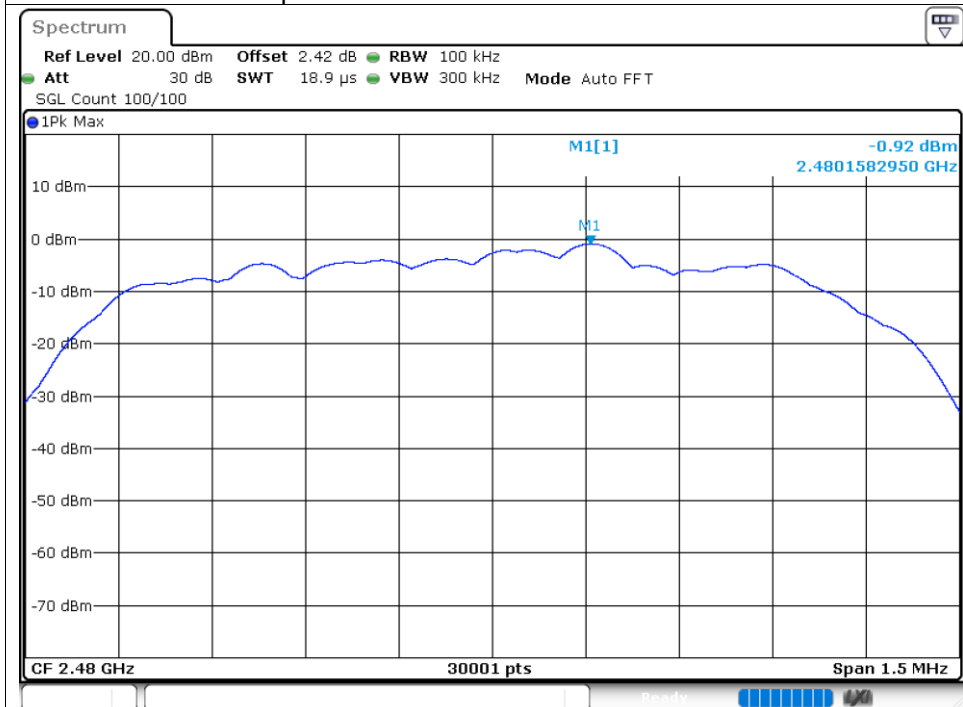
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



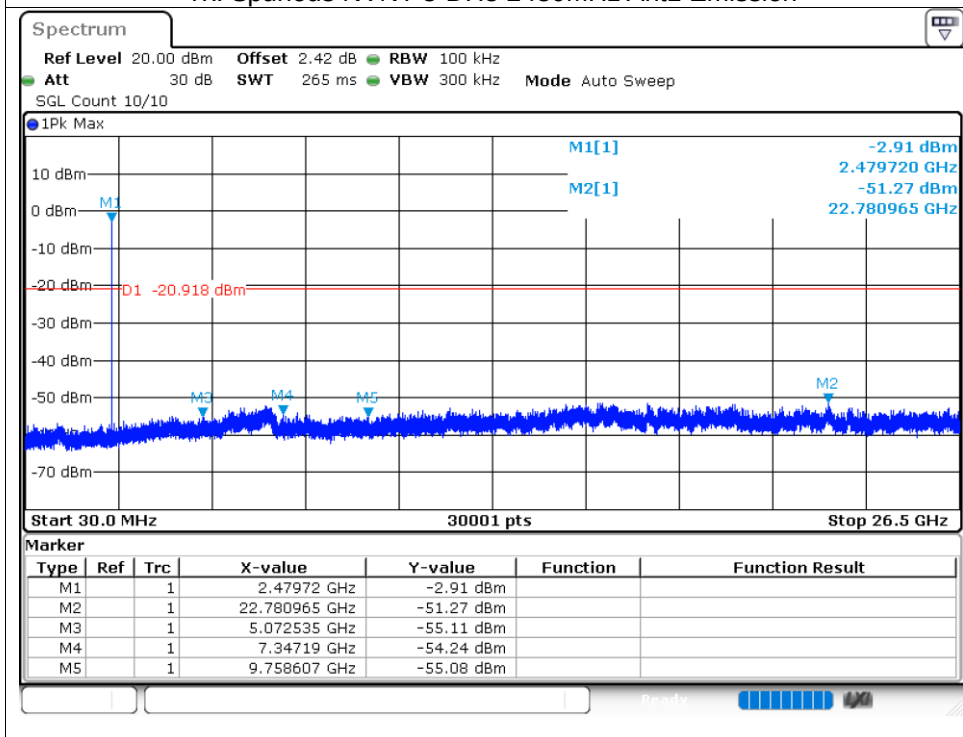
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



END OF REPORT