

8.3 -20dB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.932	0	Pass
NVNT	1-DH5	2441	Ant1	0.934	0	Pass
NVNT	1-DH5	2480	Ant1	0.946	0	Pass
NVNT	2-DH5	2402	Ant1	1.524	0	Pass
NVNT	2-DH5	2441	Ant1	1.418	0	Pass
NVNT	2-DH5	2480	Ant1	1.414	0	Pass
NVNT	3-DH5	2402	Ant1	1.432	0	Pass
NVNT	3-DH5	2441	Ant1	1.44	0	Pass
NVNT	3-DH5	2480	Ant1	1.432	0	Pass

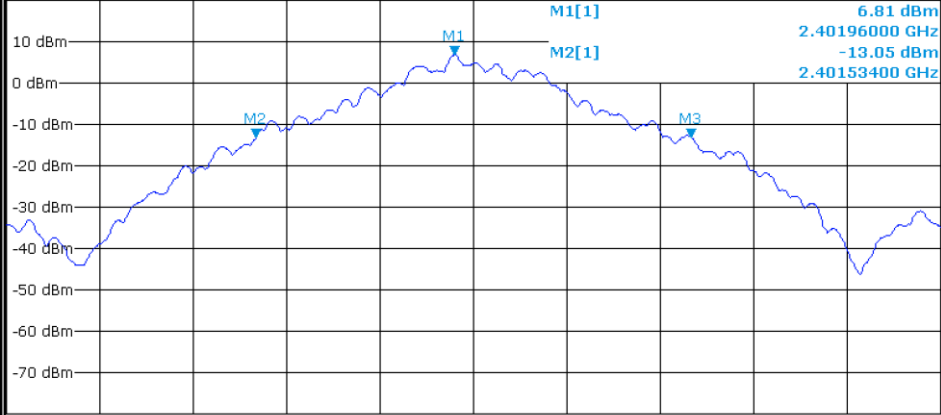
Test Graphs

-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



Marker

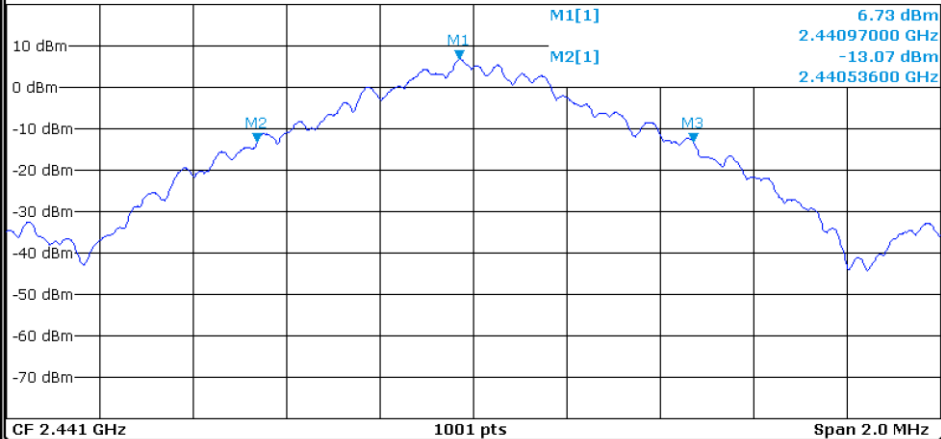
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.40196 GHz	6.81 dBm		
M2	1	1	2.401534 GHz	-13.05 dBm		
M3	1	1	2.402466 GHz	-13.09 dBm		

-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

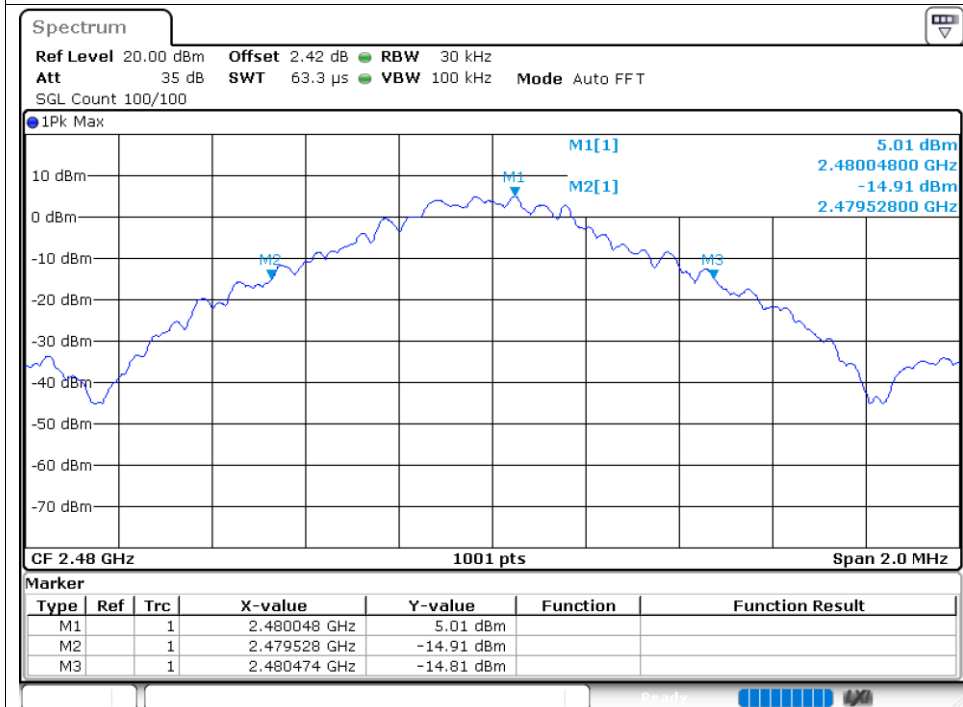
1Pk Max



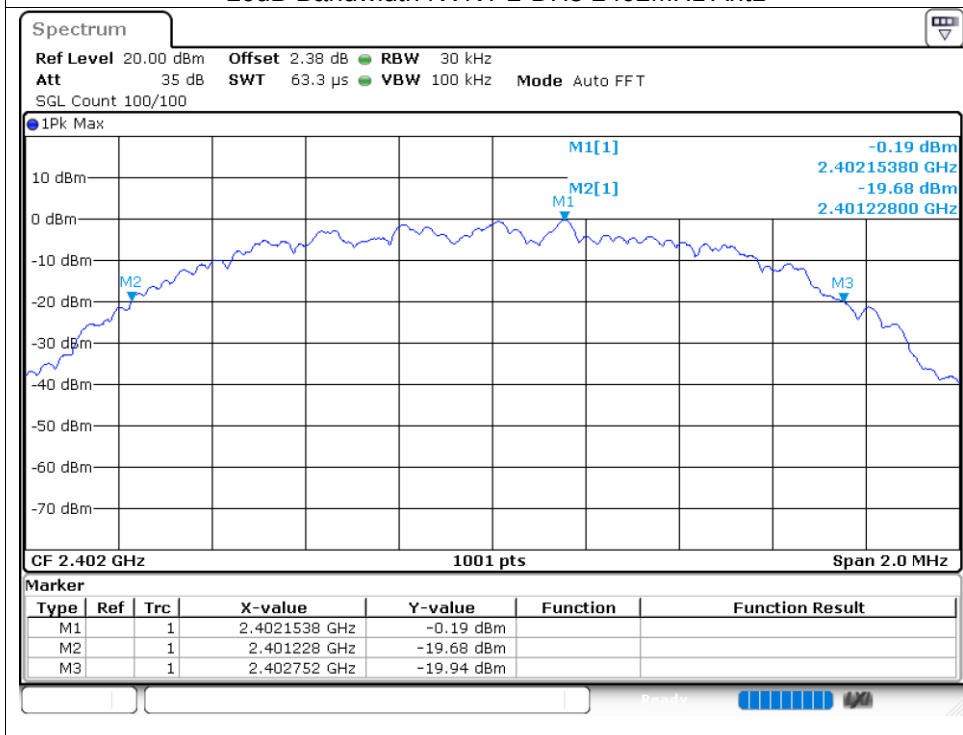
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.44097 GHz	6.73 dBm		
M2	1	1	2.440536 GHz	-13.07 dBm		
M3	1	1	2.44147 GHz	-13.11 dBm		

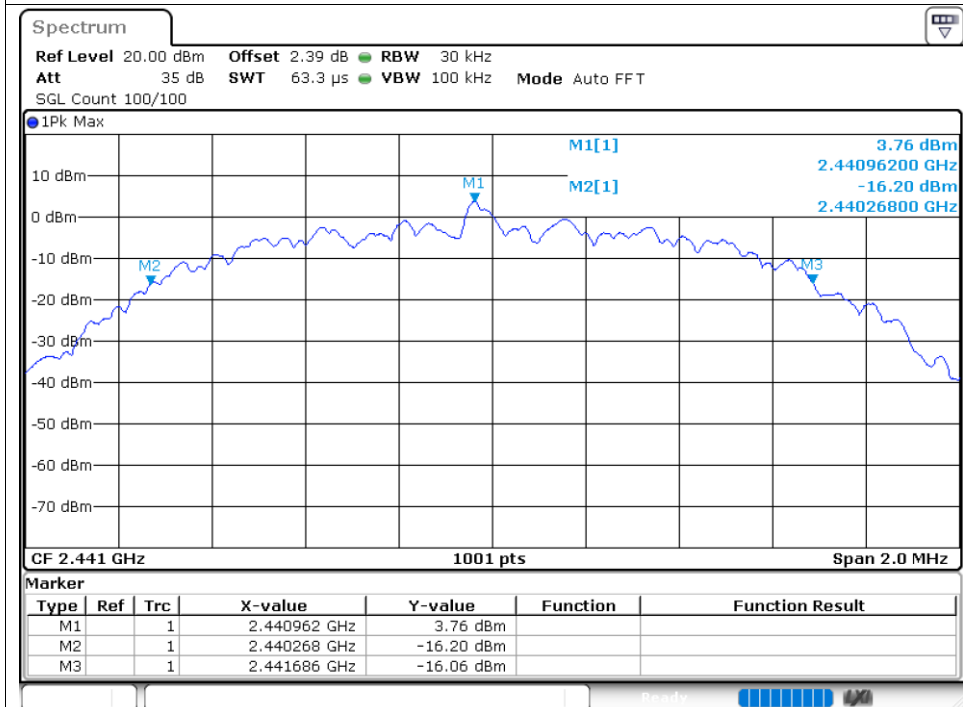
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



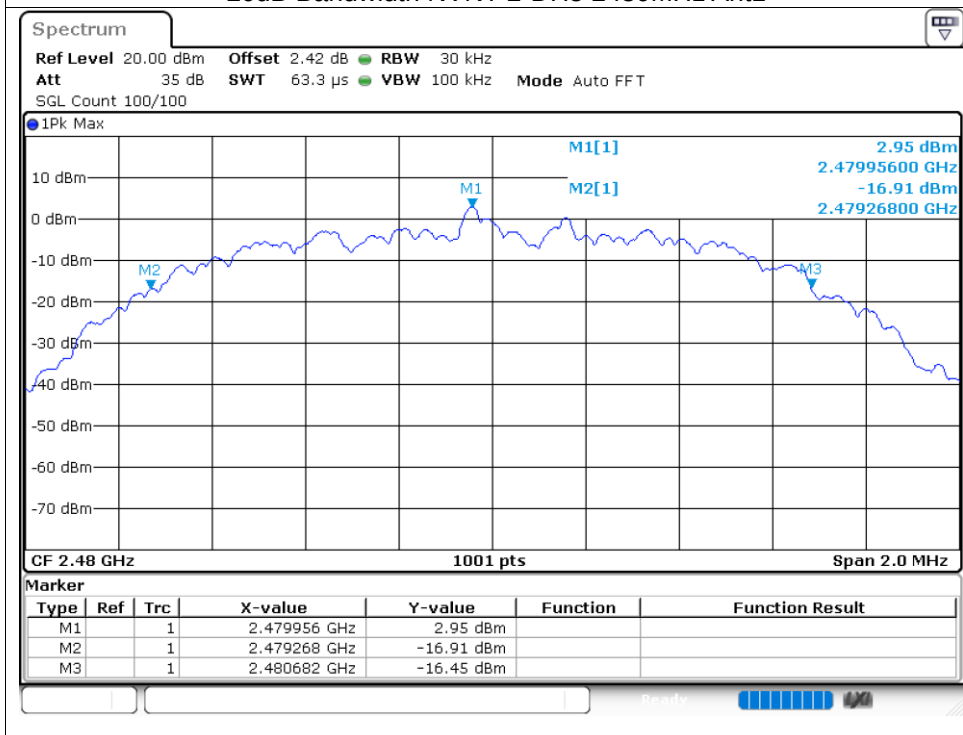
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



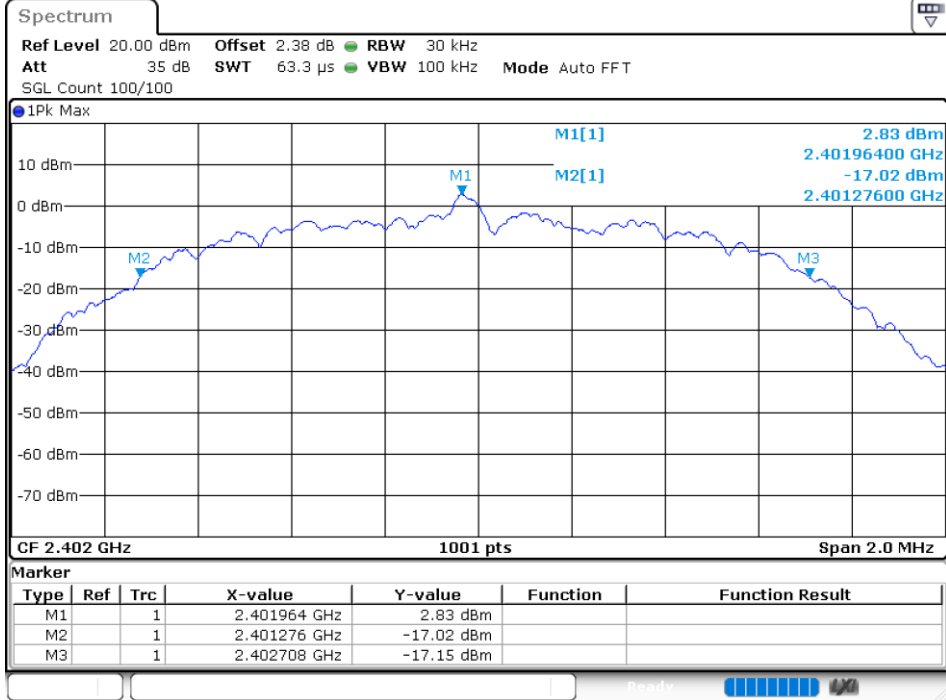
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



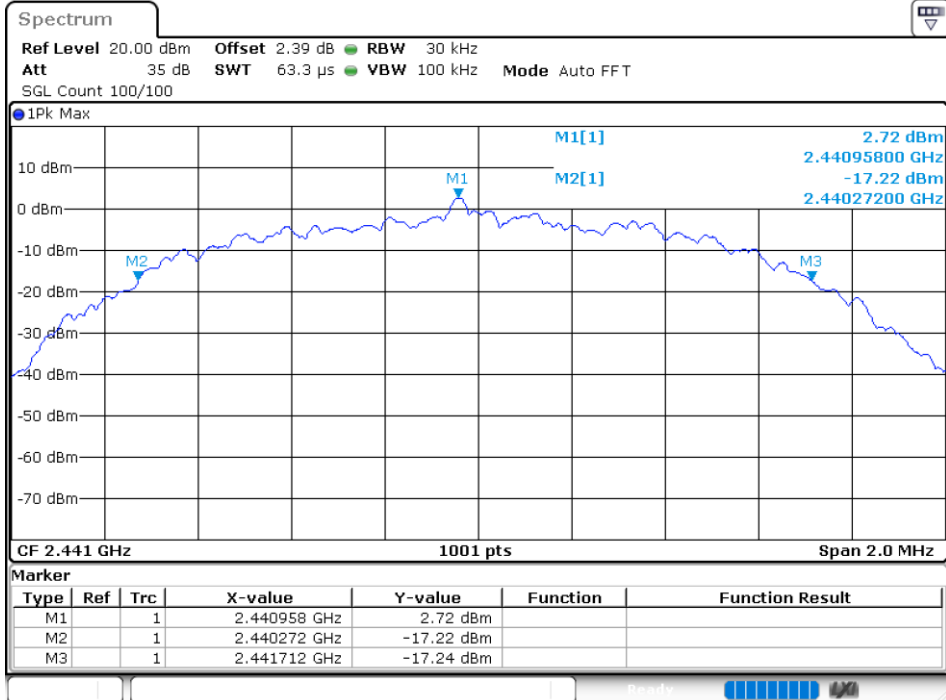
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

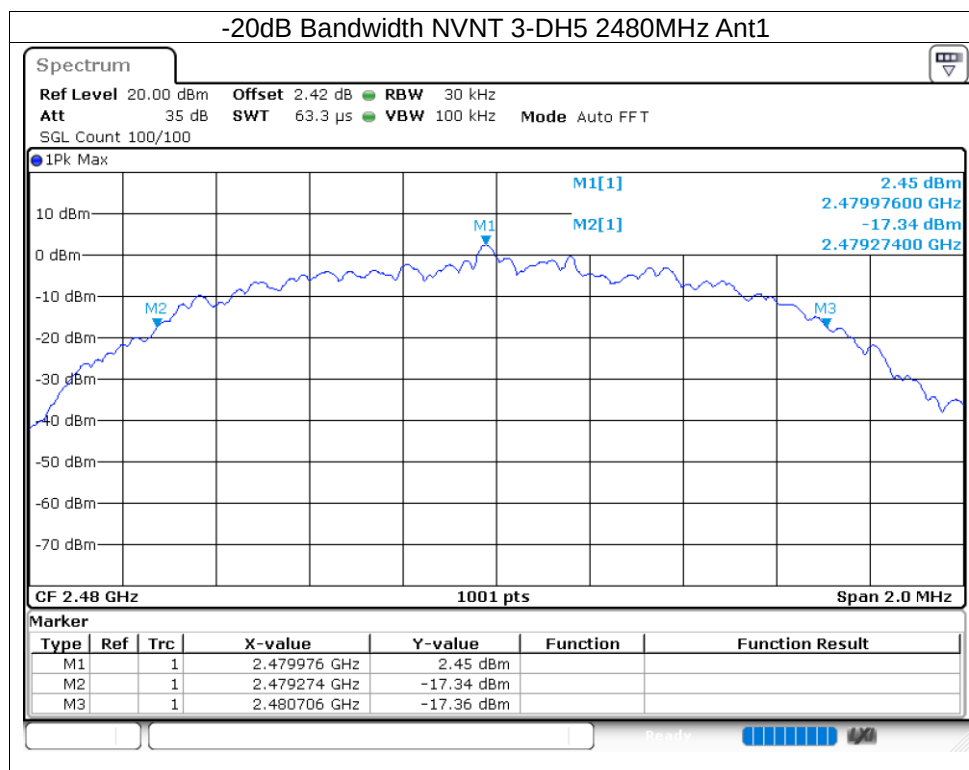


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





8.4 OCCUPIED CHANNEL BANDWIDTH

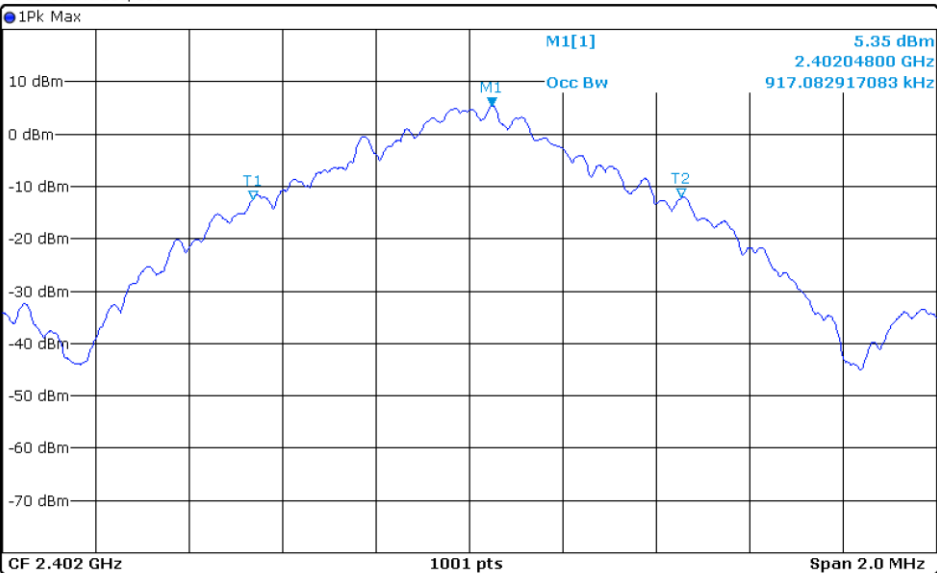
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.917
NVNT	1-DH5	2441	Ant1	0.865
NVNT	1-DH5	2480	Ant1	0.877
NVNT	2-DH5	2402	Ant1	1.365
NVNT	2-DH5	2441	Ant1	1.345
NVNT	2-DH5	2480	Ant1	1.357
NVNT	3-DH5	2402	Ant1	1.363
NVNT	3-DH5	2441	Ant1	1.351
NVNT	3-DH5	2480	Ant1	1.365

Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1

Spectrum

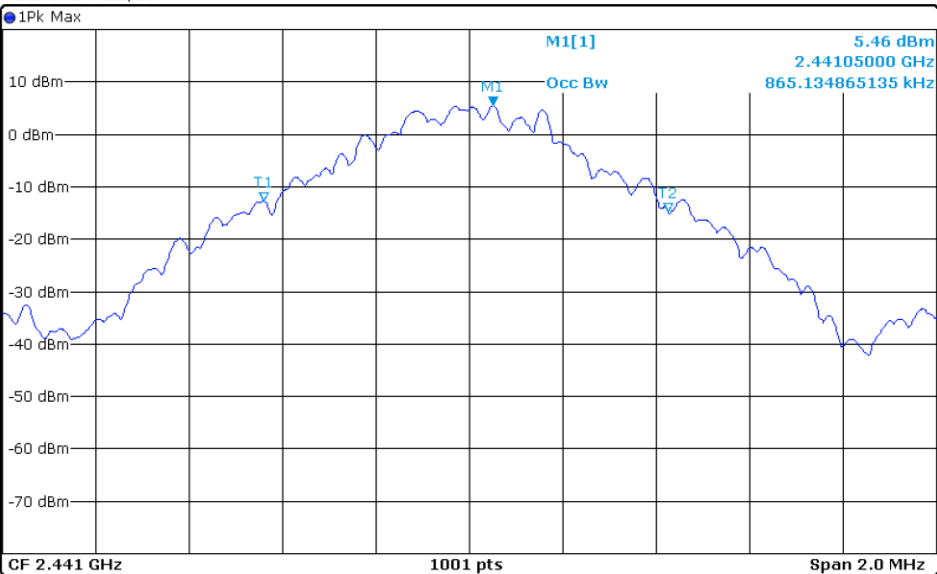
Ref Level 20.00 dBm Offset 2.38 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100



OBW NVNT 1-DH5 2441MHz Ant1

Spectrum

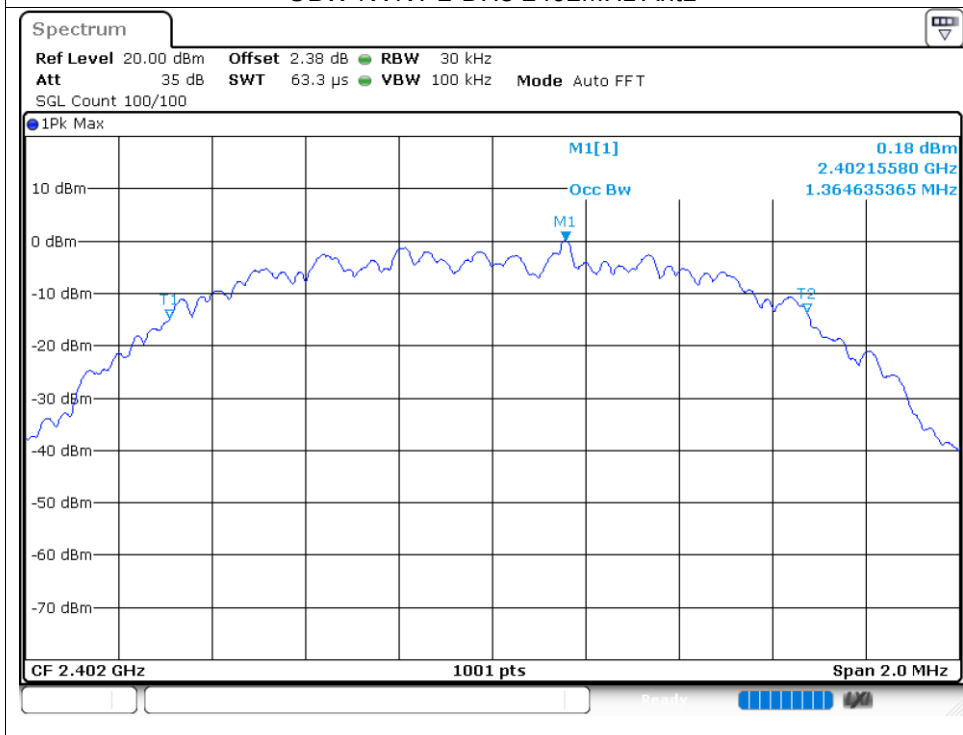
Ref Level 20.00 dBm Offset 2.39 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100



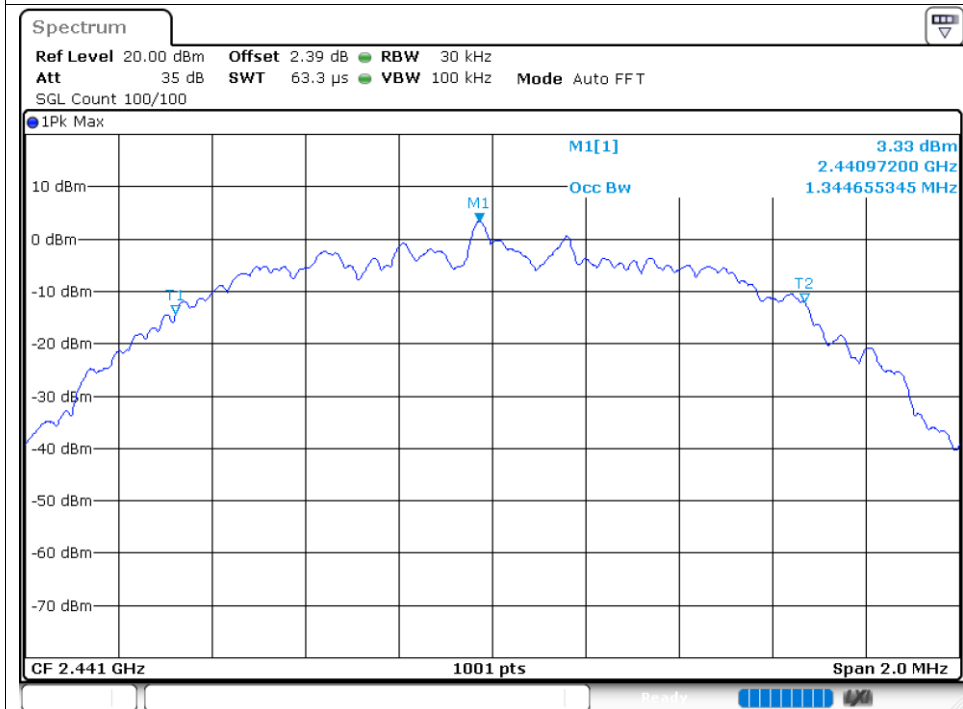
OBW NVNT 1-DH5 2480MHz Ant1



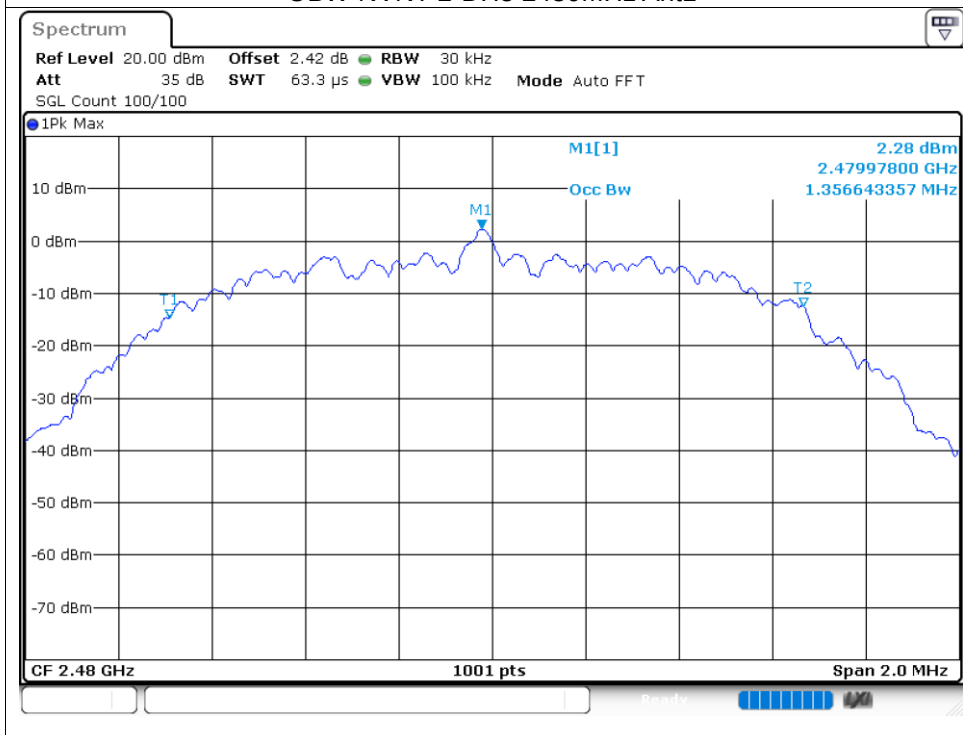
OBW NVNT 2-DH5 2402MHz Ant1



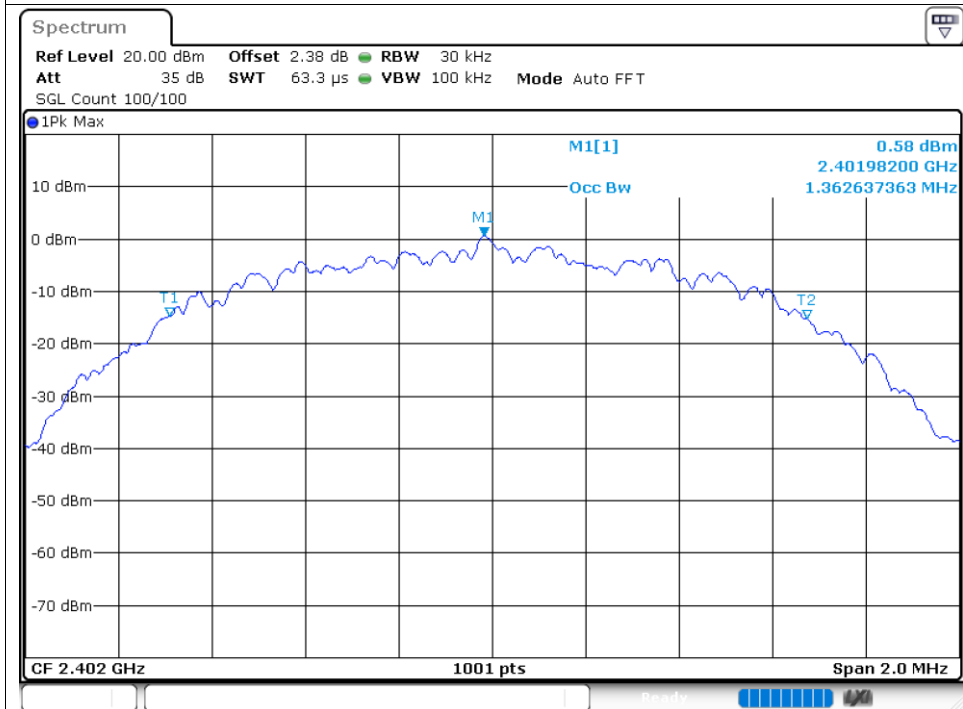
OBW NVNT 2-DH5 2441MHz Ant1



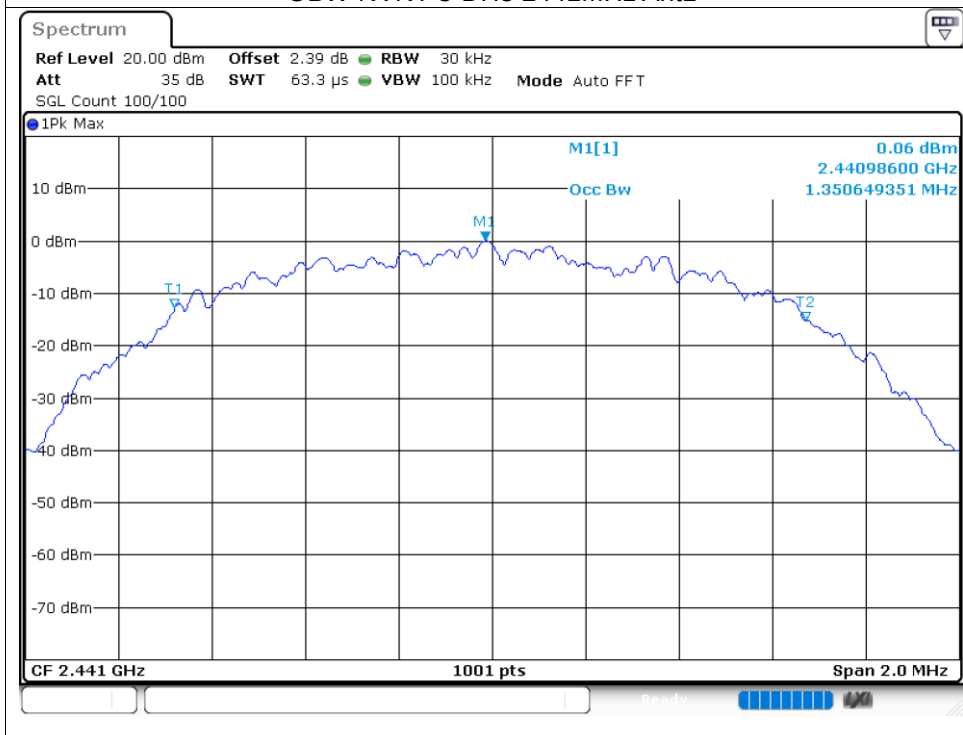
OBW NVNT 2-DH5 2480MHz Ant1

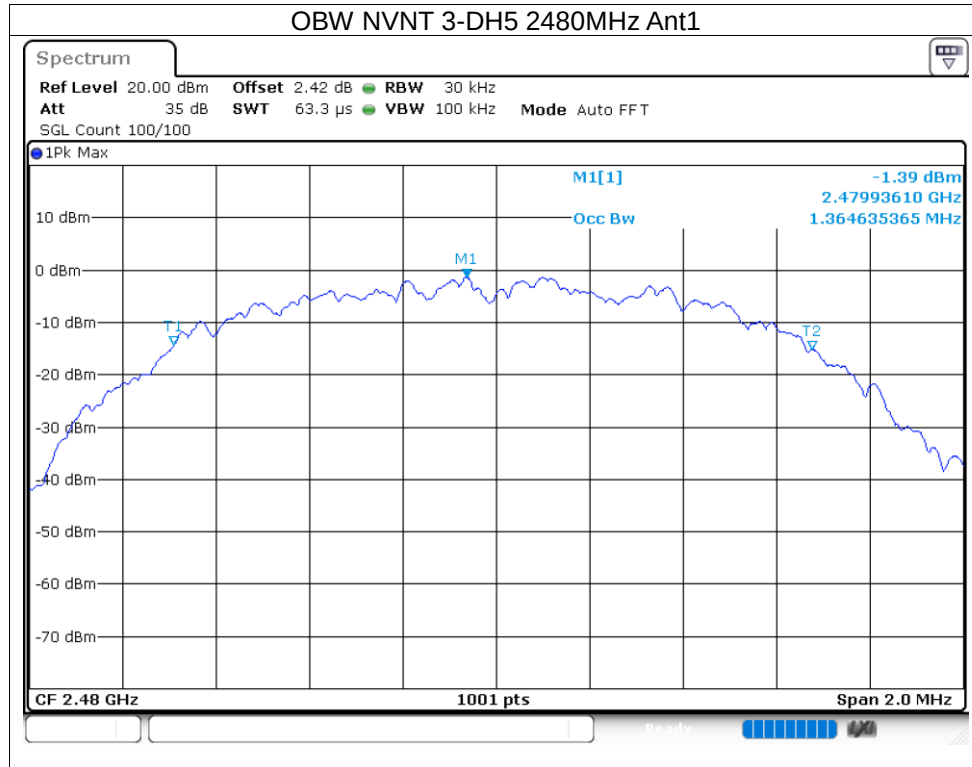


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



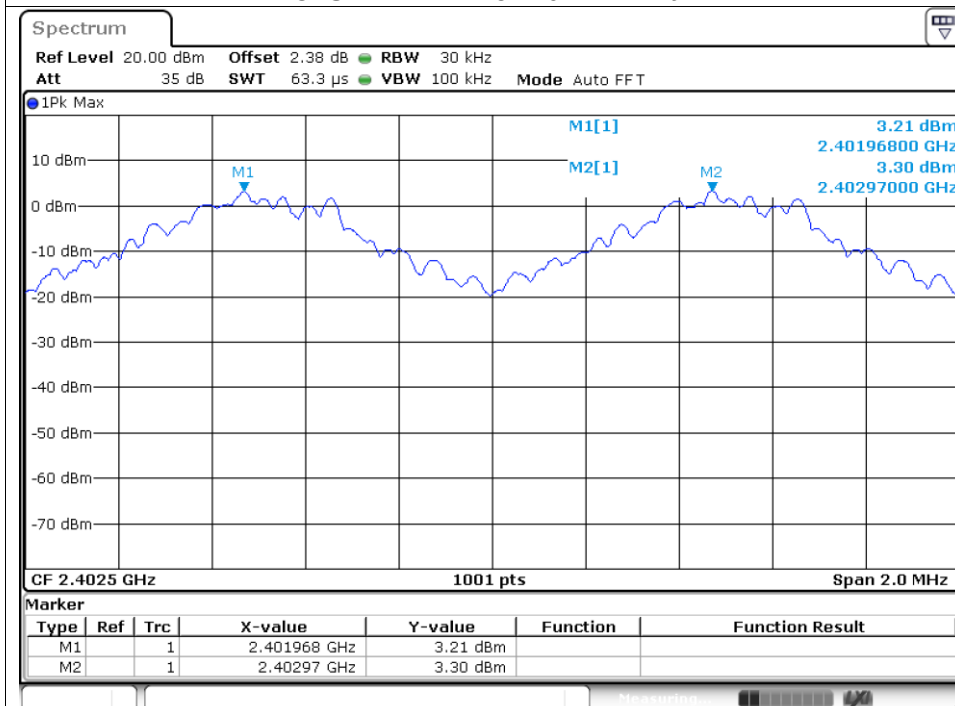


8.5 CARRIER FREQUENCIES SEPARATION

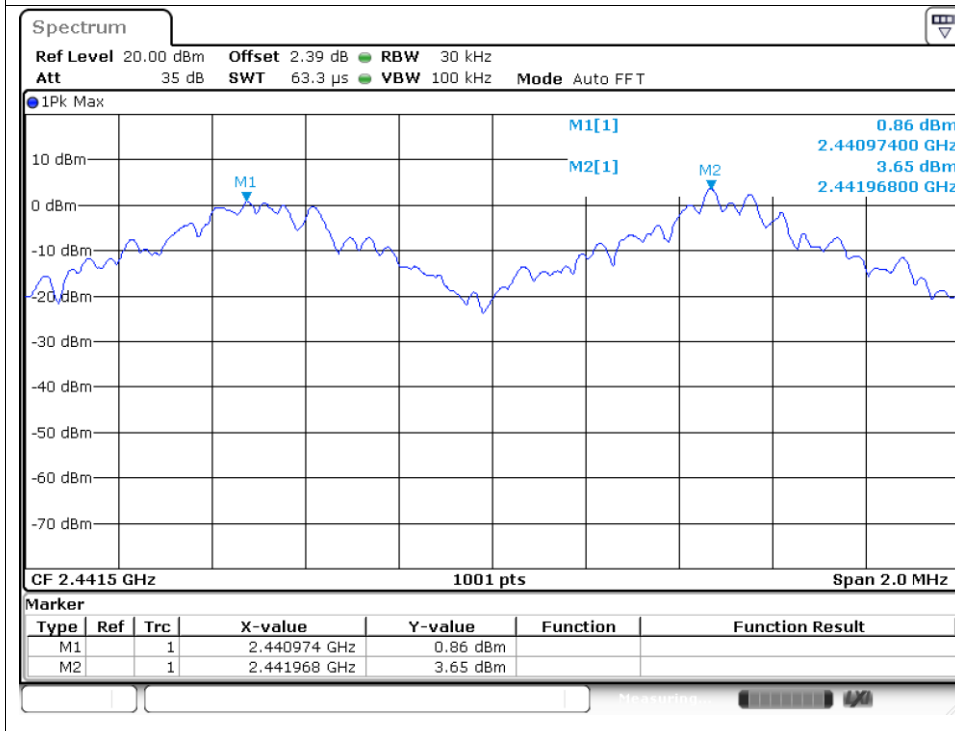
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.968	2402.97	1.002	0.621	Pass
NVNT	1-DH5	Ant1	2440.974	2441.968	0.994	0.623	Pass
NVNT	1-DH5	Ant1	2478.976	2479.98	1.004	0.631	Pass
NVNT	2-DH5	Ant1	2401.96	2402.98	1.02	1.016	Pass
NVNT	2-DH5	Ant1	2440.897	2441.986	1.089	0.945	Pass
NVNT	2-DH5	Ant1	2479.005	2480.005	1	0.943	Pass
NVNT	3-DH5	Ant1	2401.964	2402.972	1.008	0.955	Pass
NVNT	3-DH5	Ant1	2440.971	2441.972	1.001	0.96	Pass
NVNT	3-DH5	Ant1	2478.97	2479.96	0.99	0.955	Pass

Test Graphs

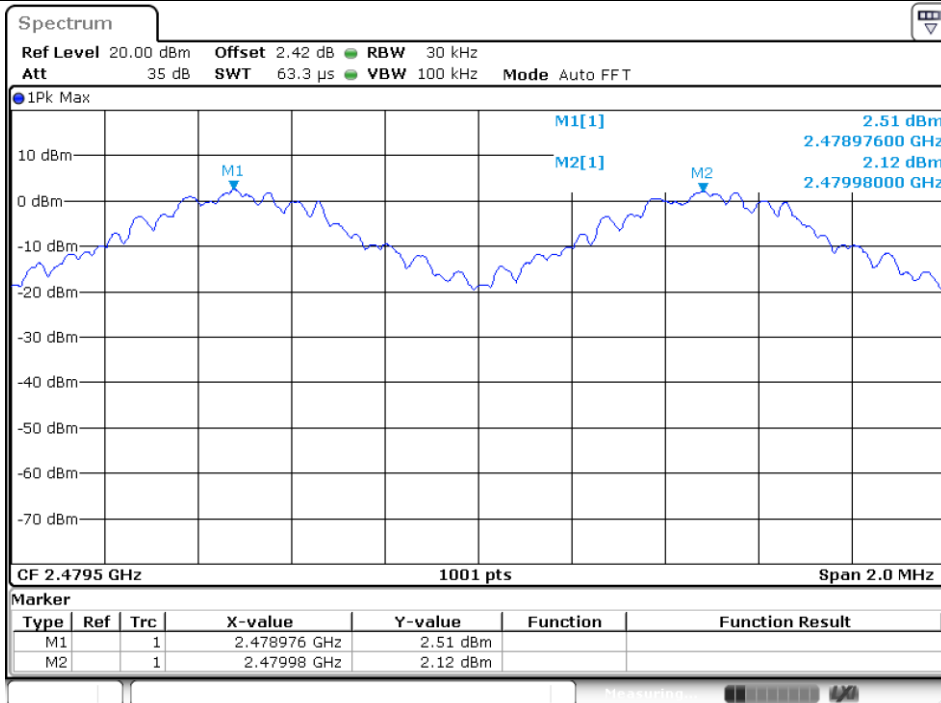
CFS NVNT 1-DH5 2402MHz Ant1



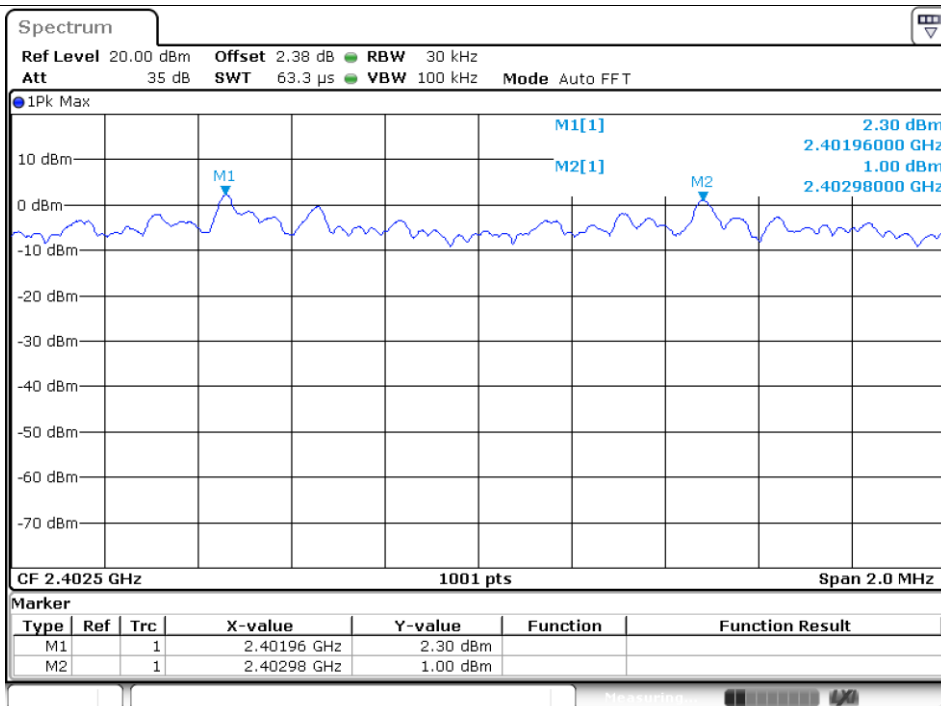
CFS NVNT 1-DH5 2441MHz Ant1



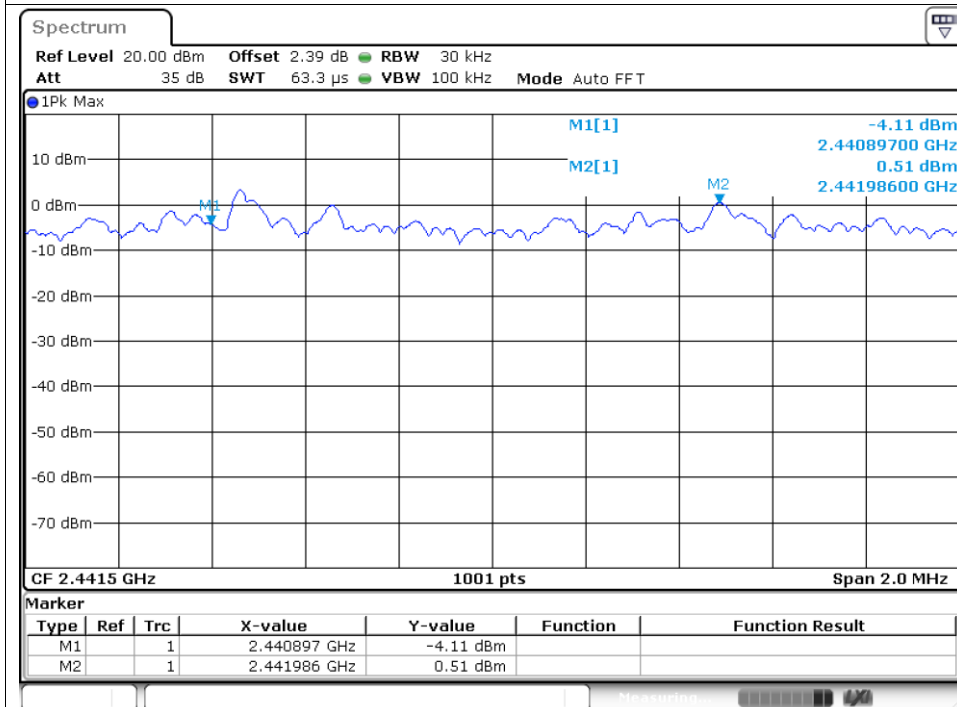
CFS NVNT 1-DH5 2480MHz Ant1



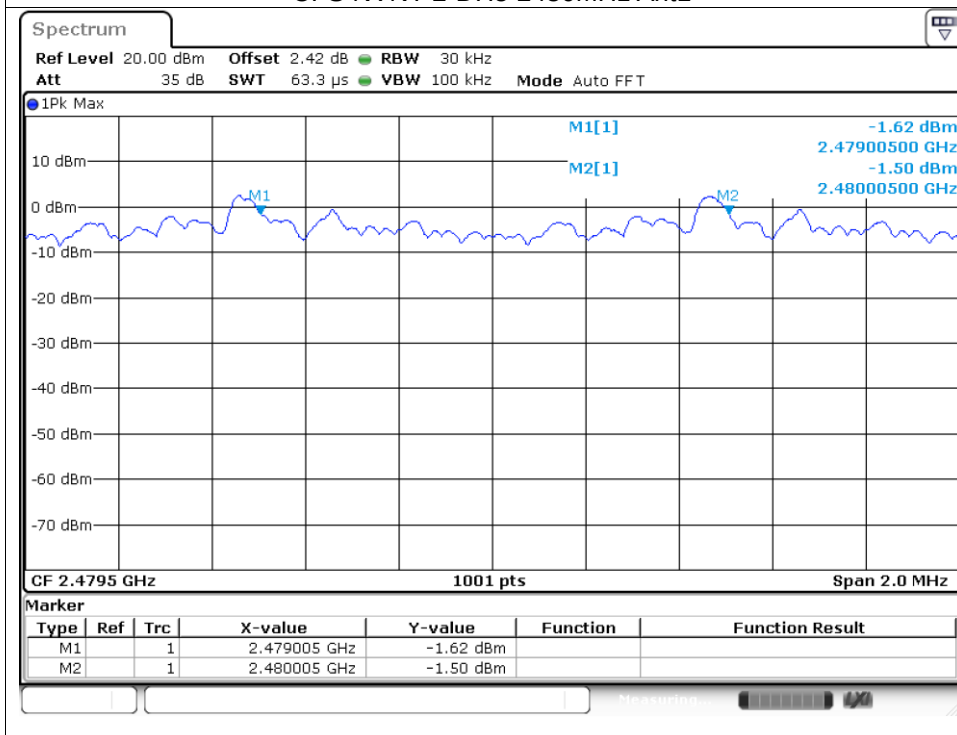
CFS NVNT 2-DH5 2402MHz Ant1



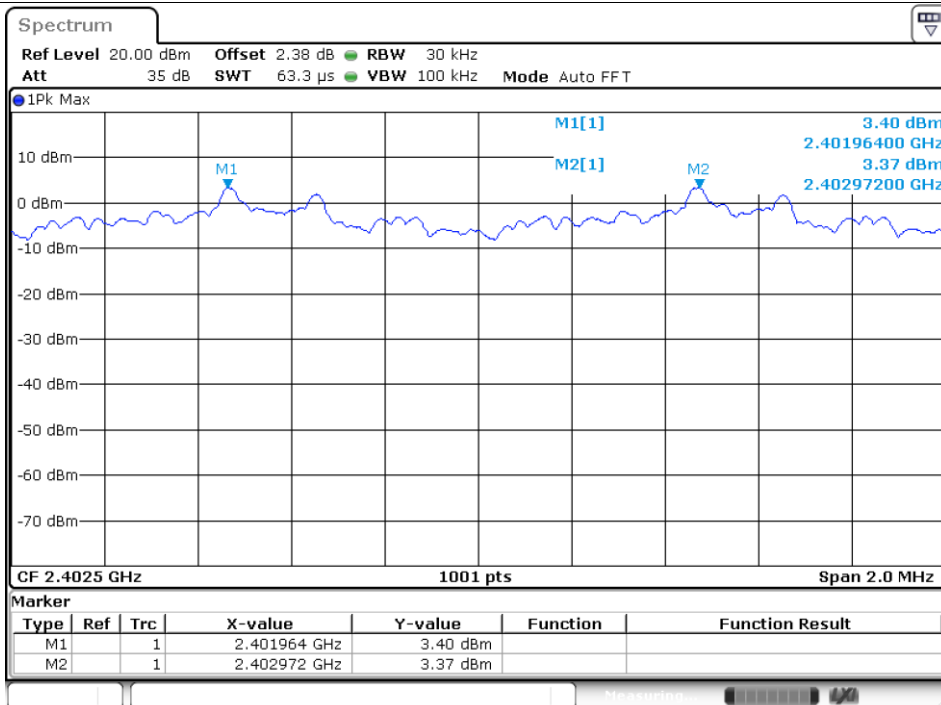
CFS NVNT 2-DH5 2441MHz Ant1



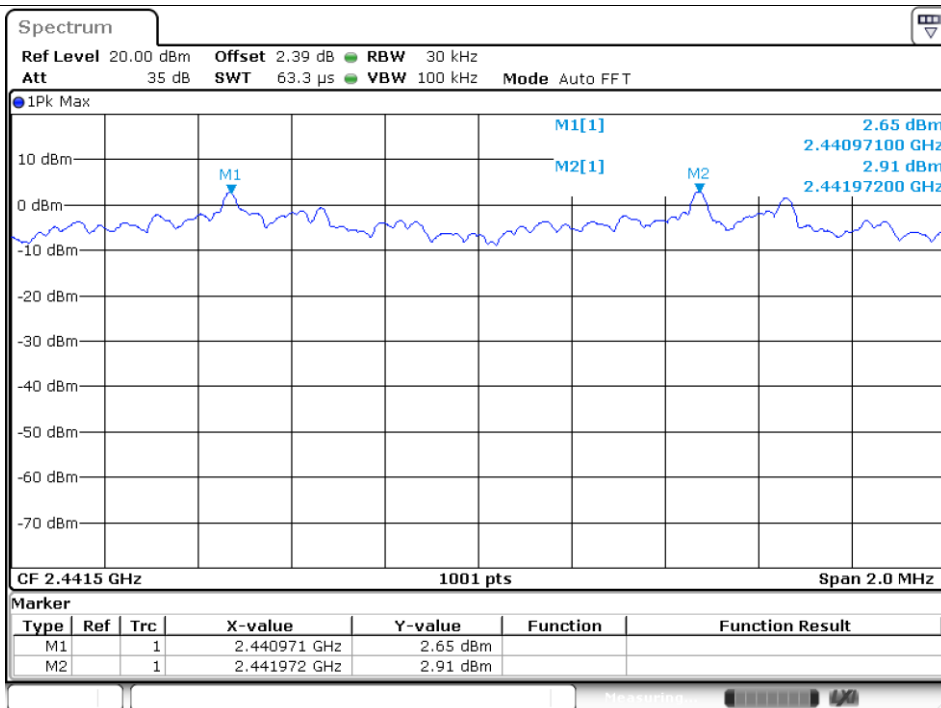
CFS NVNT 2-DH5 2480MHz Ant1

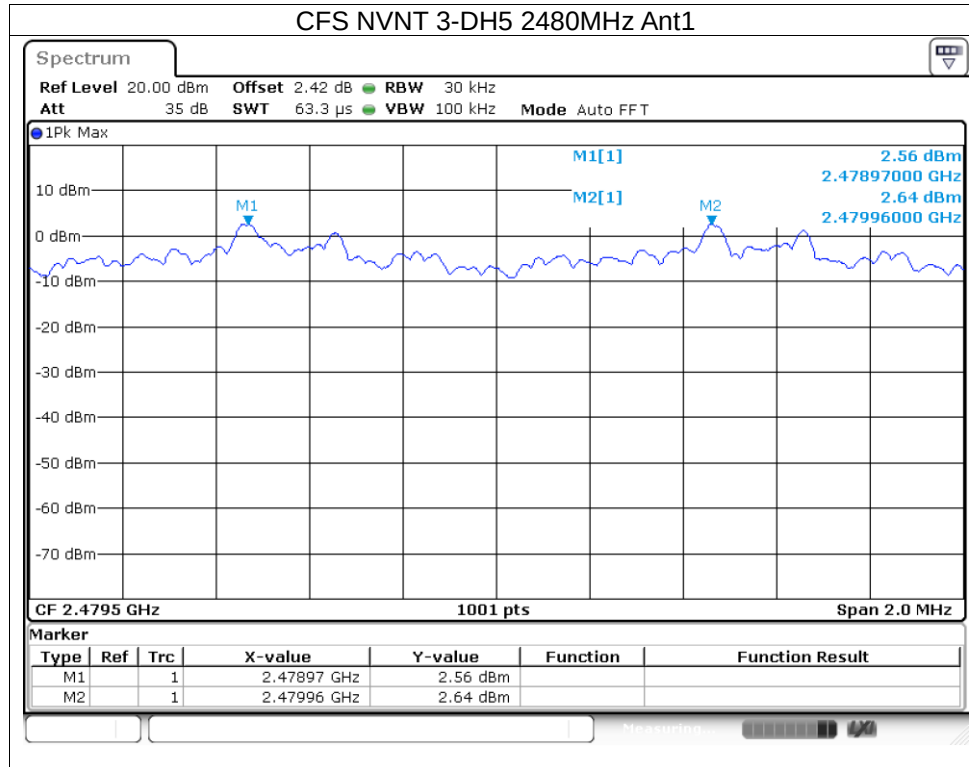


CFS NVNT 3-DH5 2402MHz Ant1



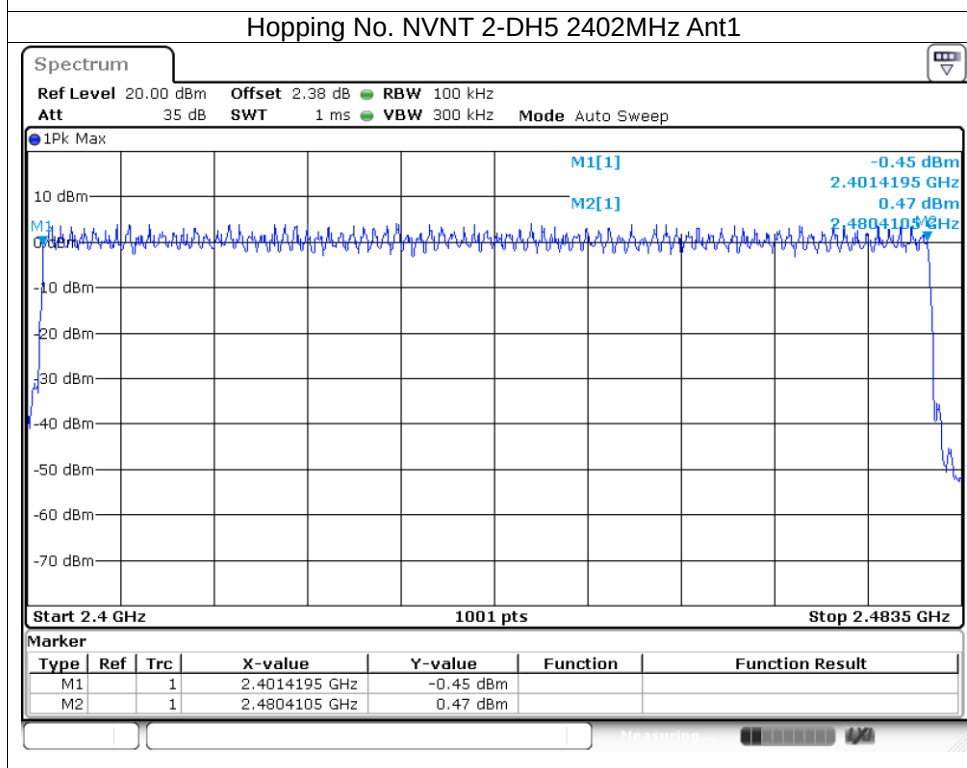
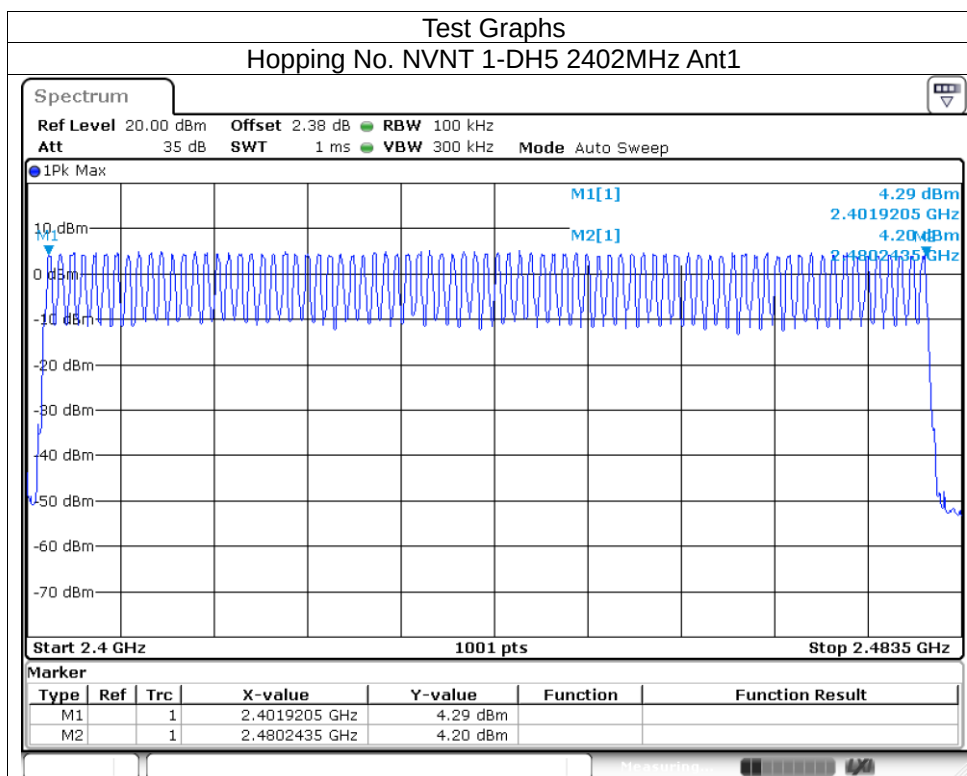
CFS NVNT 3-DH5 2441MHz Ant1

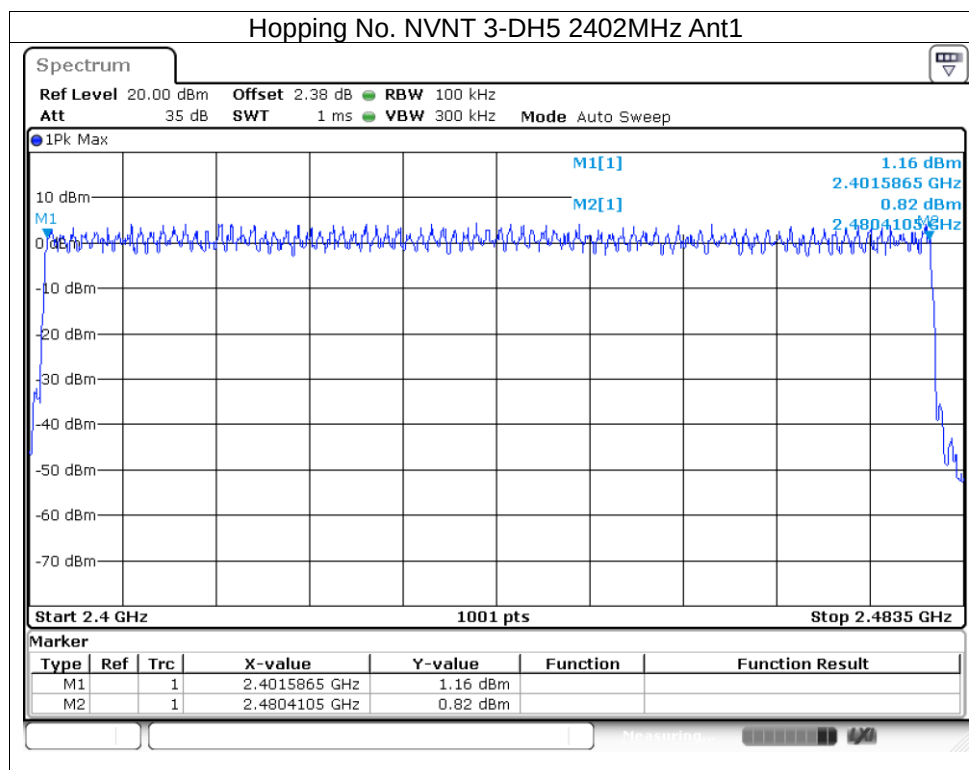




8.6 NUMBER OF HOPPING CHANNEL

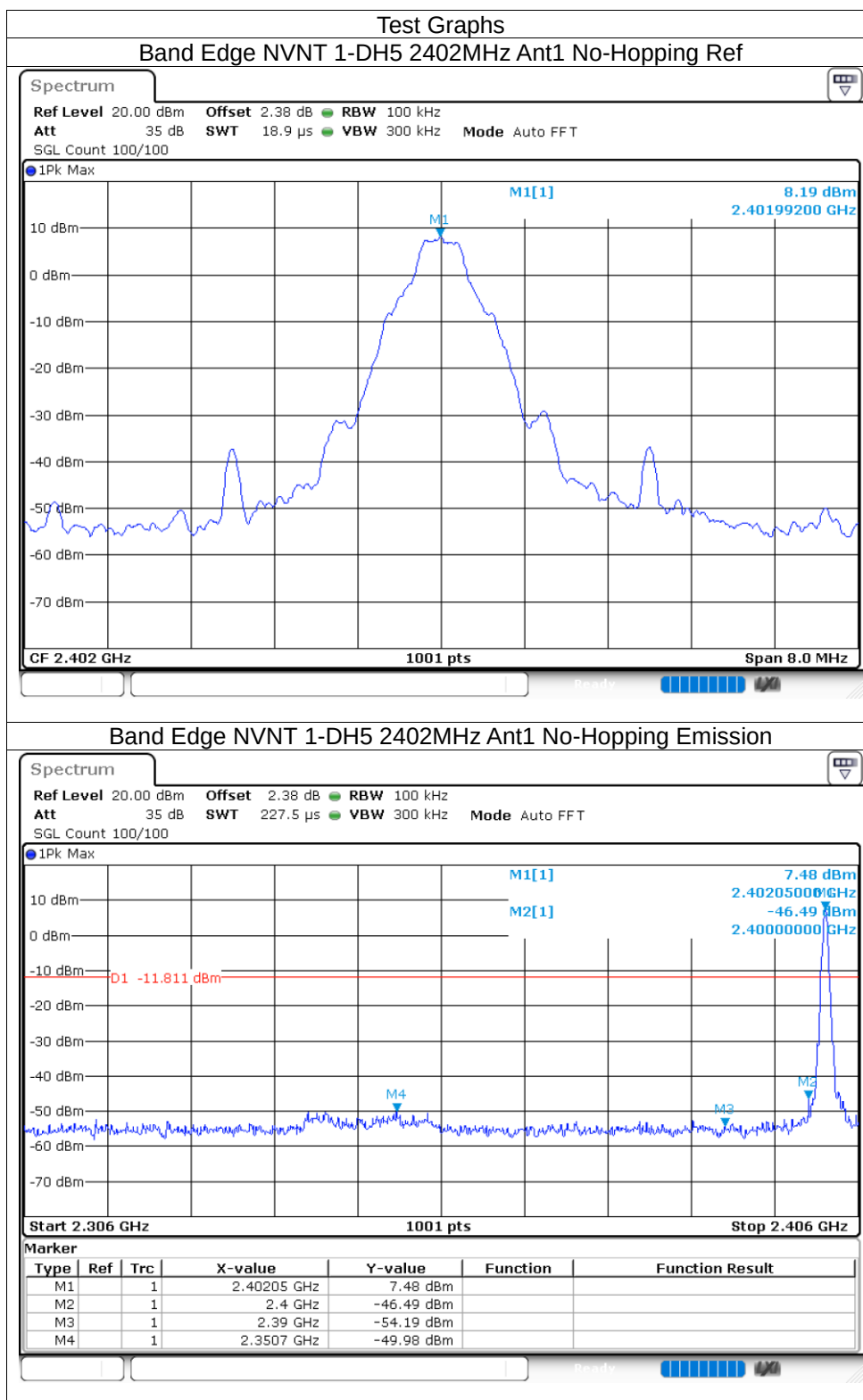
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass





8.7 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.16	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.94	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.97	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.27	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.49	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.07	-20	Pass

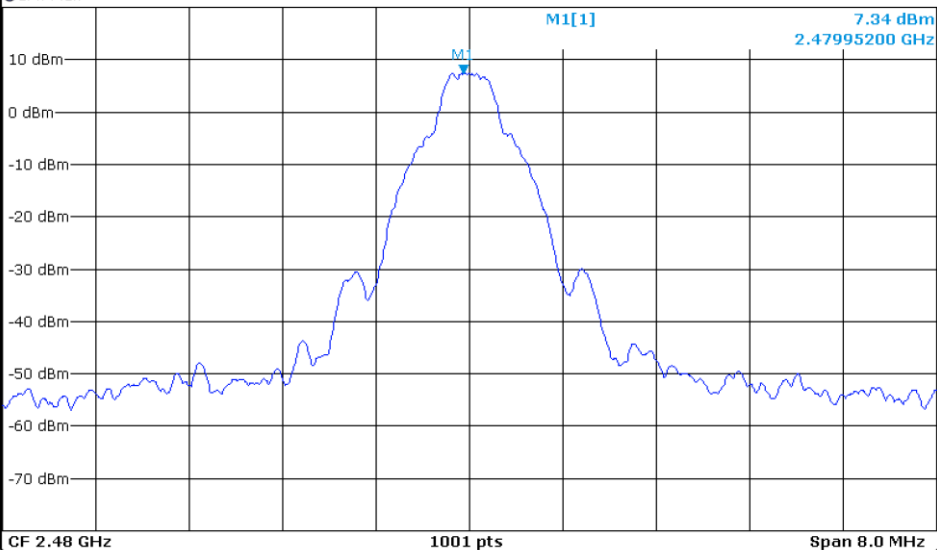


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

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

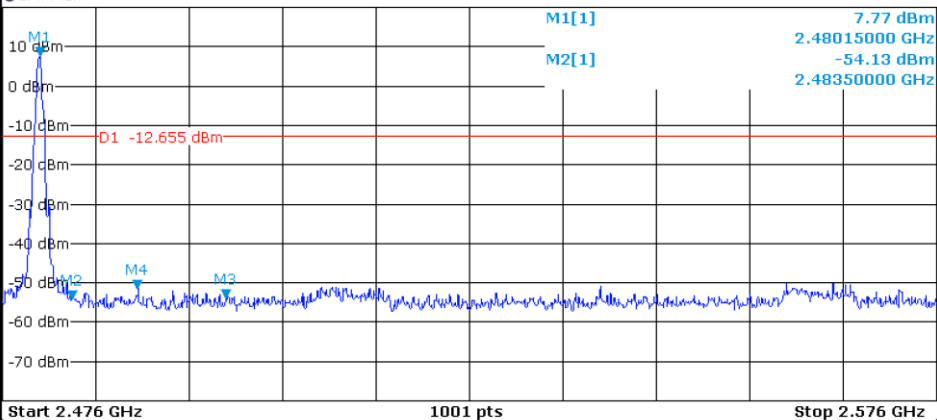


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

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

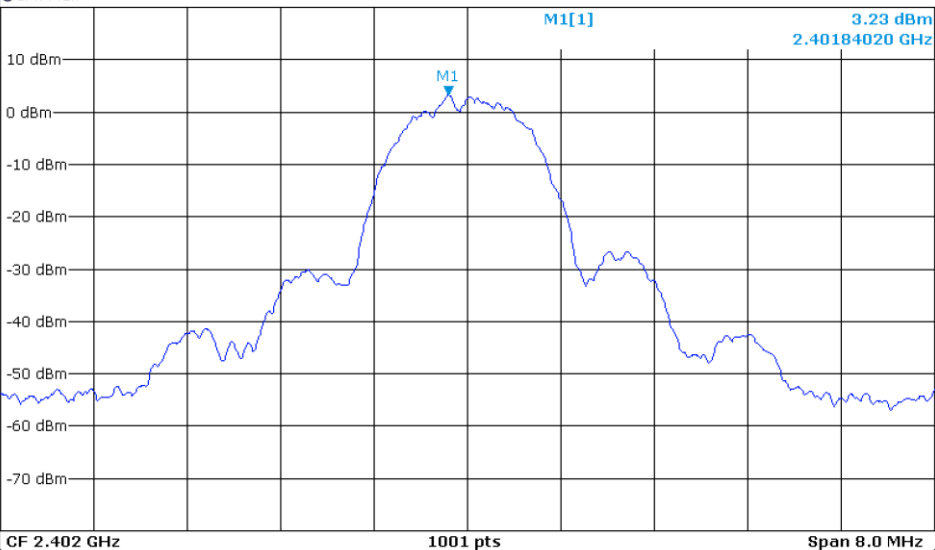
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.48015 GHz	7.77 dBm		
M2	1		2.4835 GHz	-54.13 dBm		
M3	1		2.5 GHz	-53.88 dBm		
M4	1		2.4905 GHz	-51.61 dBm		

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

1Pk Max

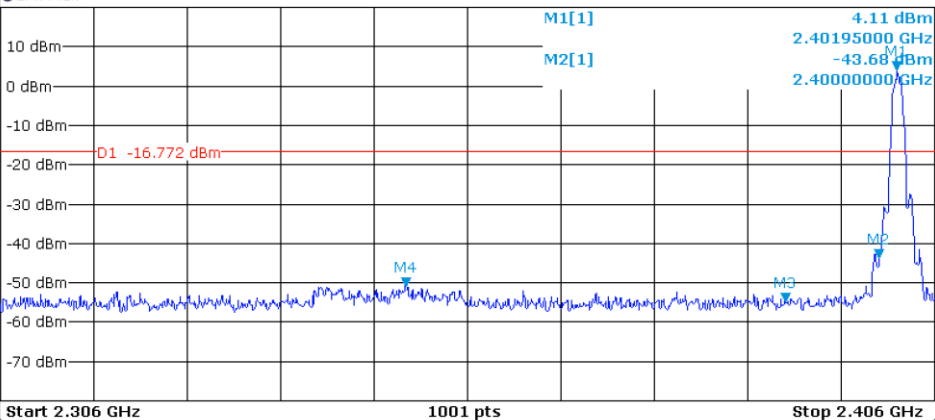


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

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

1Pk Max



Marker

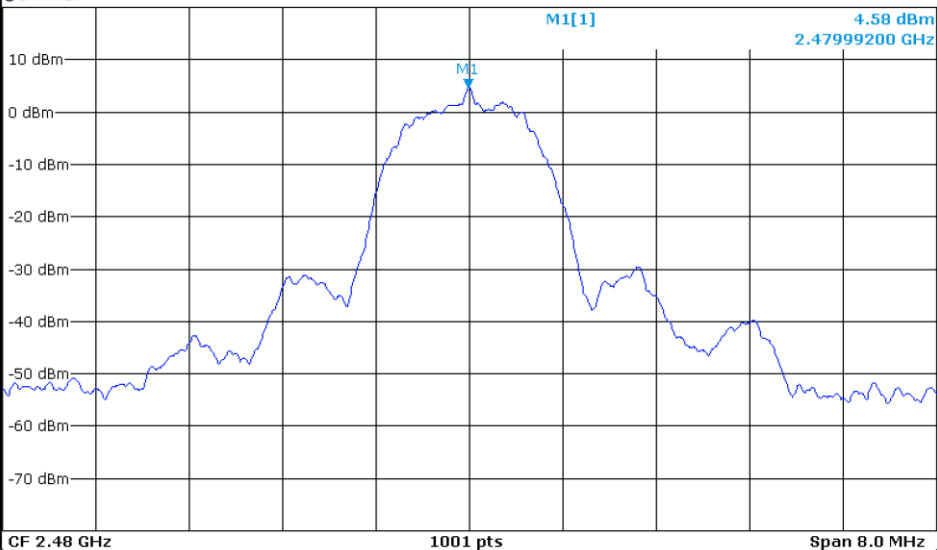
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40195 GHz	4.11 dBm		
M2	1		2.4 GHz	-43.68 dBm		
M3	1		2.39 GHz	-54.78 dBm		
M4	1		2.3494 GHz	-50.74 dBm		

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

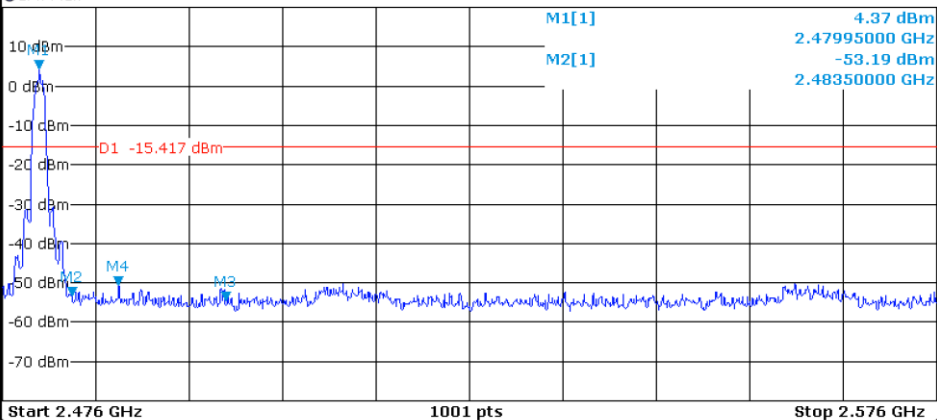


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

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



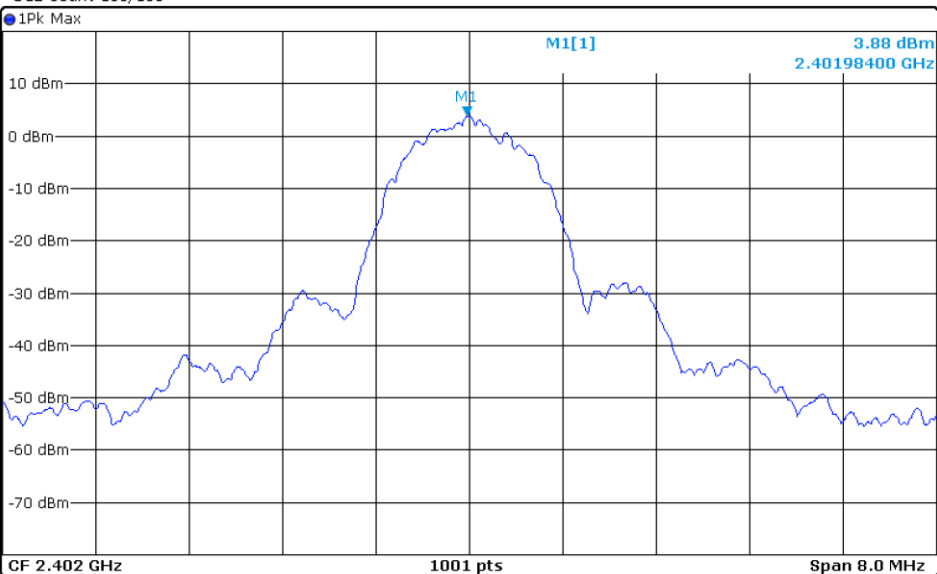
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.47995 GHz	4.37 dBm		
M2	1		2.4835 GHz	-53.19 dBm		
M3	1		2.5 GHz	-54.41 dBm		
M4	1		2.4884 GHz	-50.69 dBm		

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

Spectrum

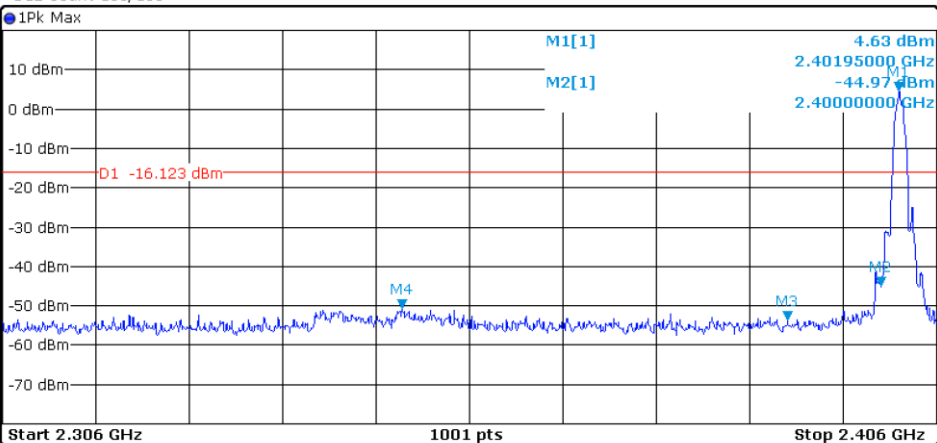
Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100



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



Marker

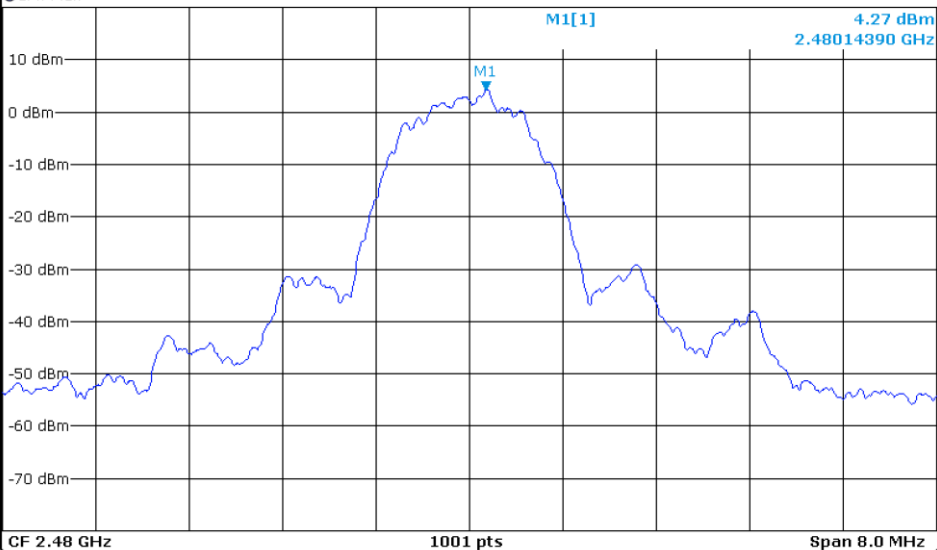
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40195 GHz	4.63 dBm		
M2		1	2.4 GHz	-44.97 dBm		
M3		1	2.39 GHz	-53.54 dBm		
M4		1	2.3498 GHz	-50.61 dBm		

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

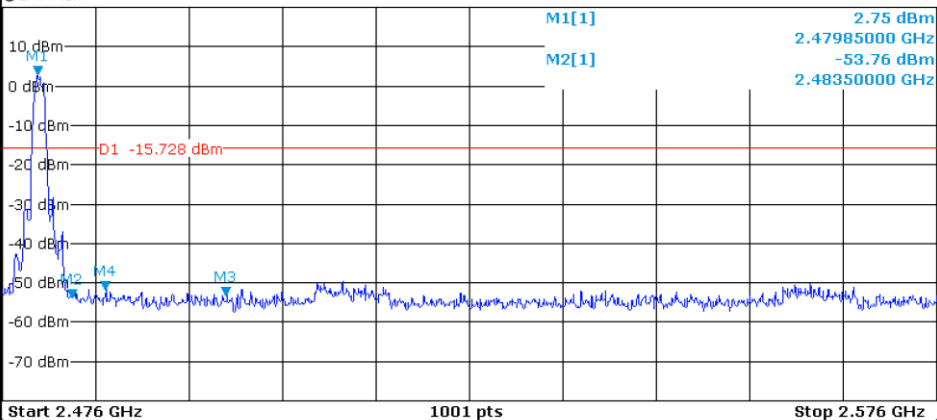


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

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

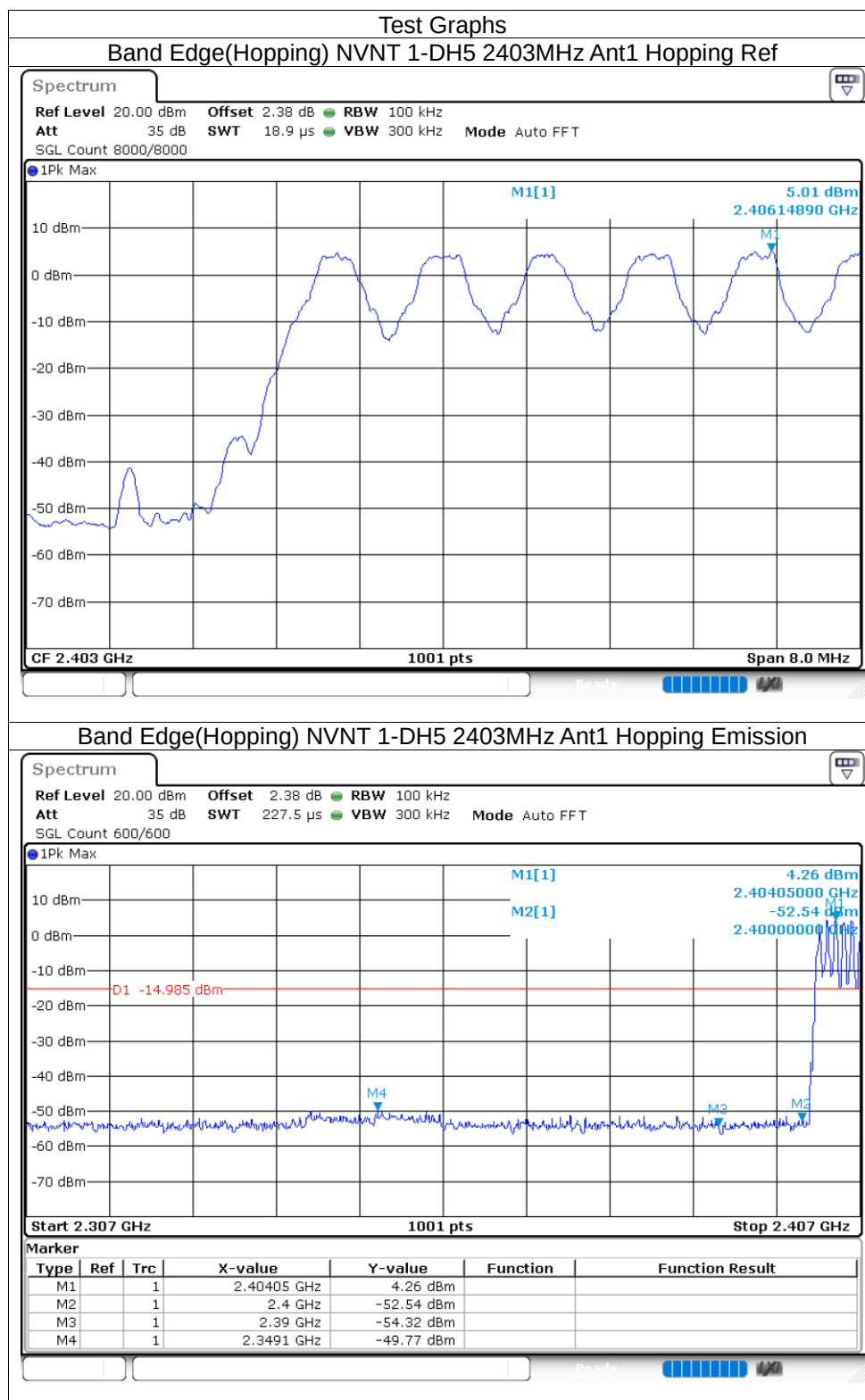


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.47985 GHz	2.75 dBm		
M2	1		2.4835 GHz	-53.76 dBm		
M3	1		2.5 GHz	-53.26 dBm		
M4	1		2.4871 GHz	-51.81 dBm		

8.8 BAND EDGE(HOPPING)

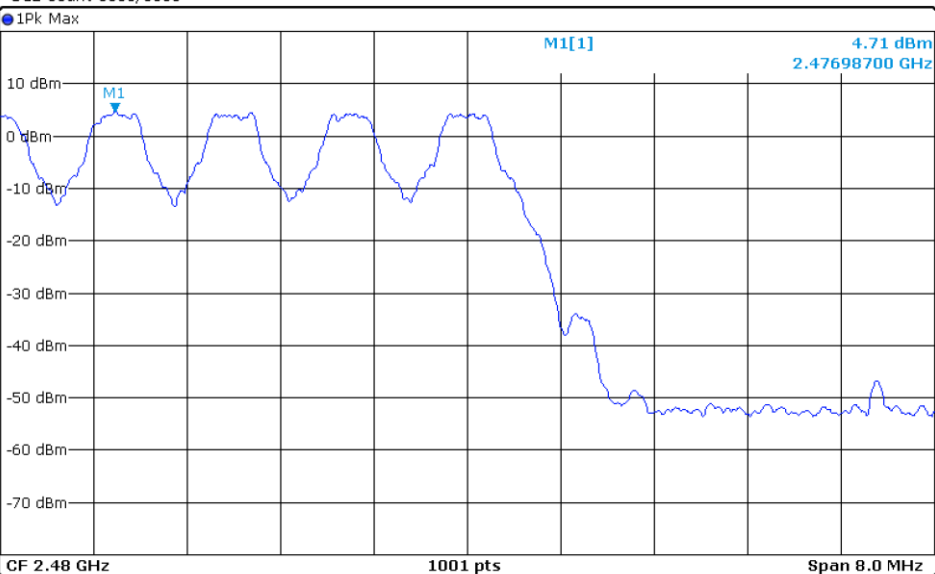
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2403	Ant1	Hopping	-54.77	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.62	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.81	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.88	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.28	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.76	-20	Pass



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

Spectrum

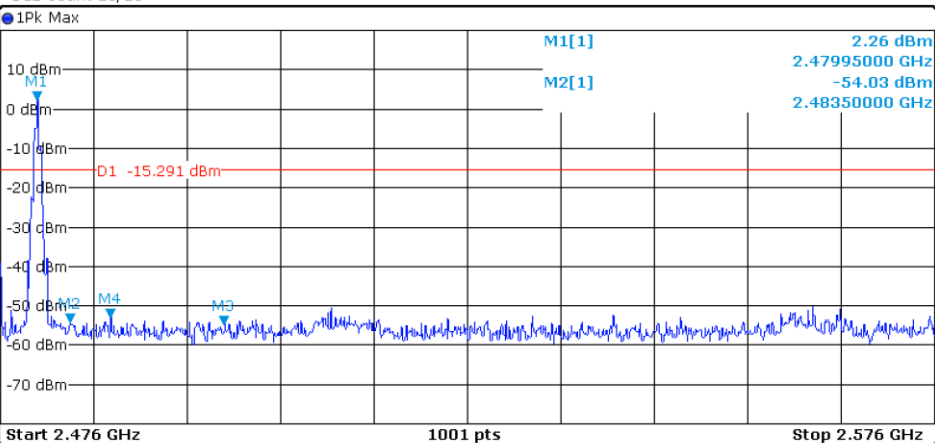
Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000



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 20/20



Marker

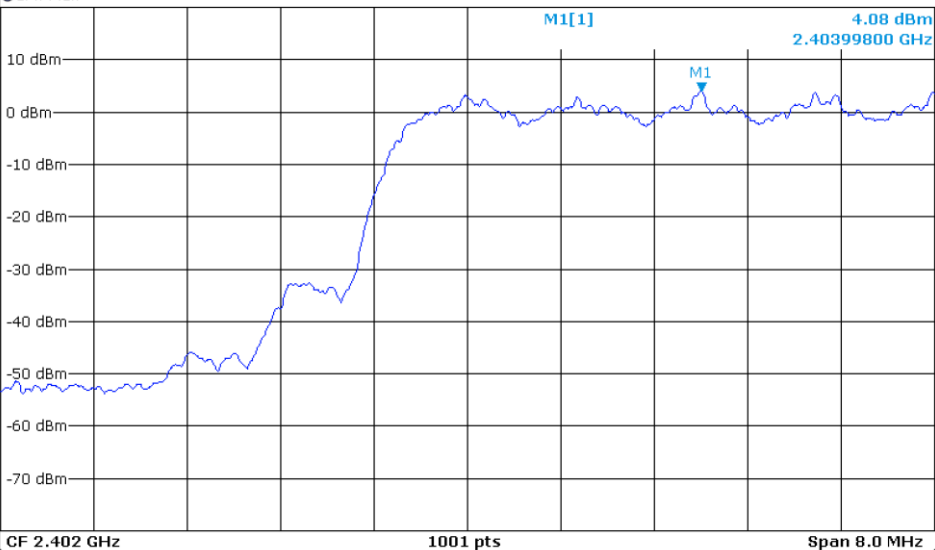
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47995 GHz	2.26 dBm		
M2		1	2.4835 GHz	-54.03 dBm		
M3		1	2.5 GHz	-54.87 dBm		
M4		1	2.4878 GHz	-52.92 dBm		

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

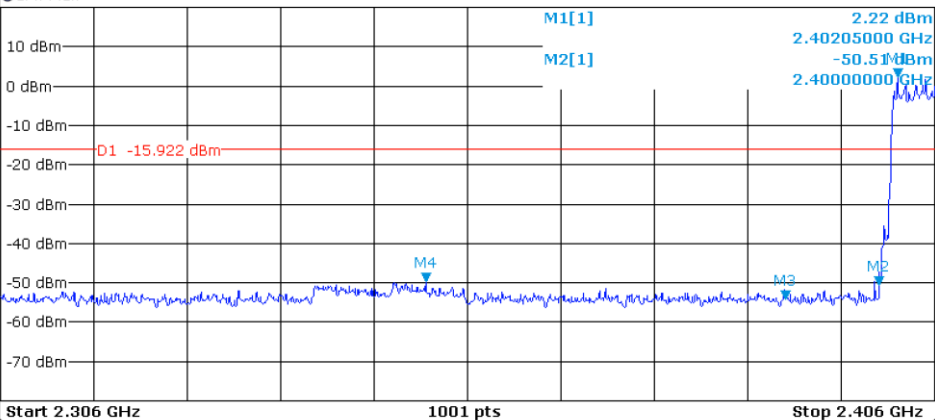


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

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 500/500

1Pk Max



Marker

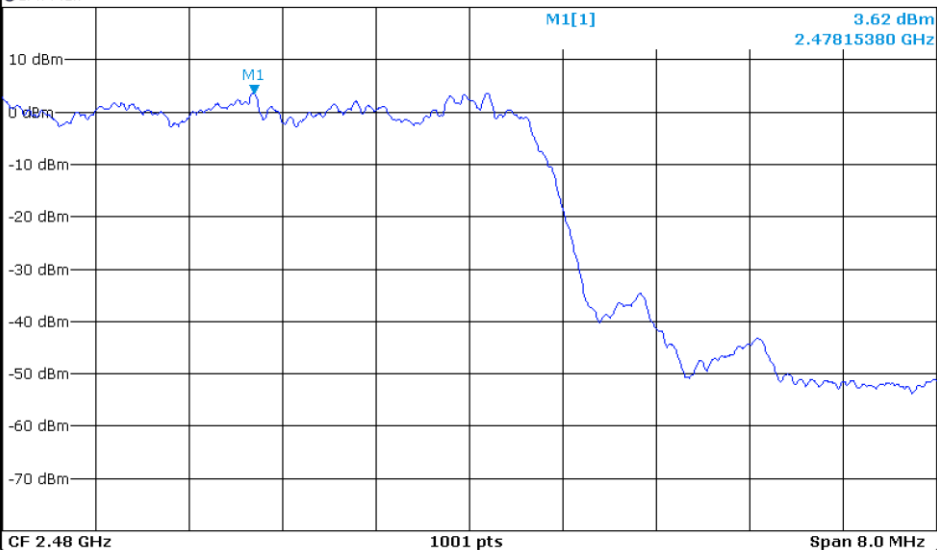
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40205 GHz	2.22 dBm		
M2	1		2.4 GHz	-50.51 dBm		
M3	1		2.39 GHz	-54.21 dBm		
M4	1		2.3516 GHz	-49.74 dBm		

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

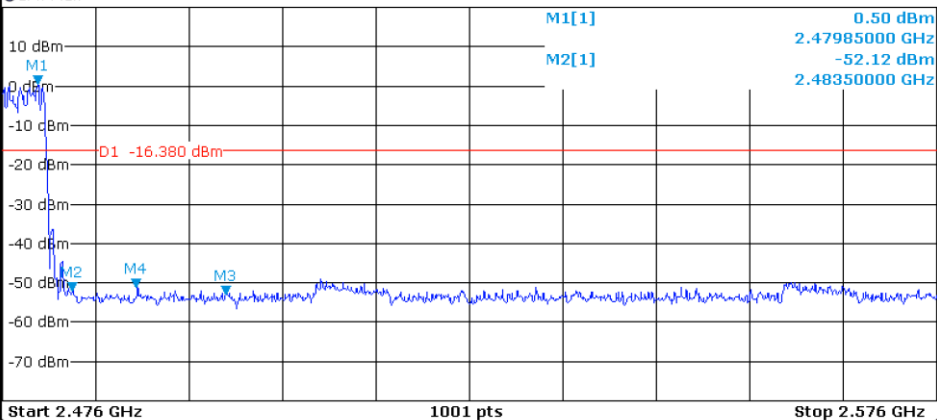


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

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 500/500

1Pk Max



Marker

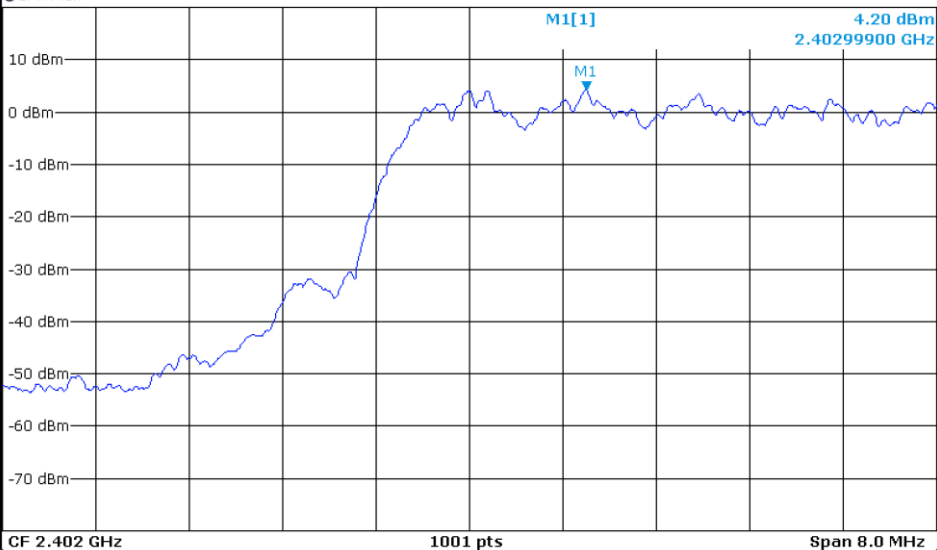
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.47985 GHz	0.50 dBm		
M2	1		2.4835 GHz	-52.12 dBm		
M3	1		2.5 GHz	-52.87 dBm		
M4	1		2.4904 GHz	-51.26 dBm		

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

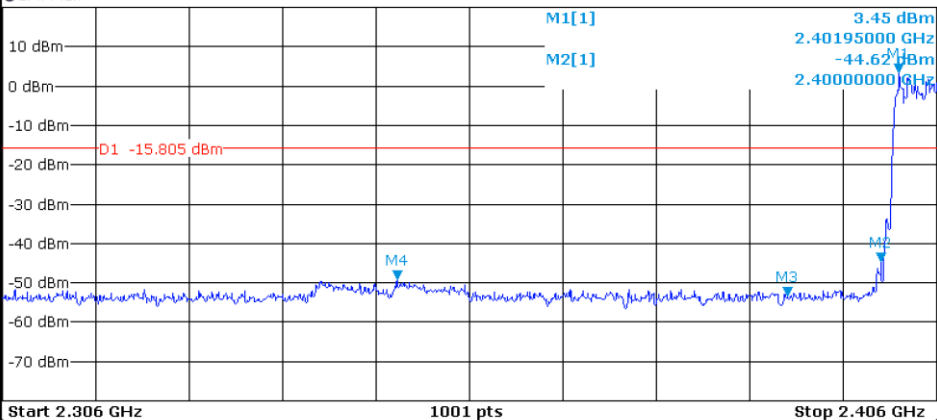


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

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 1000/1000

1Pk Max



Marker

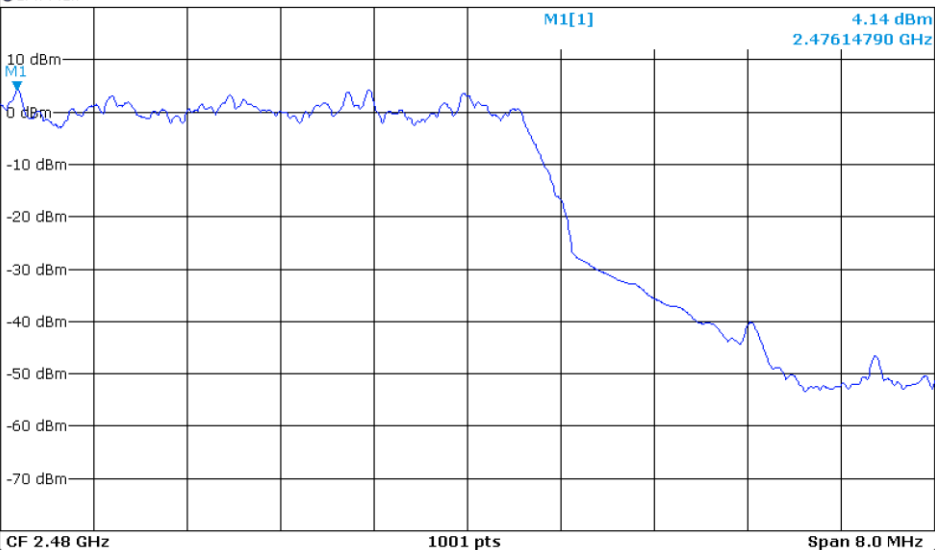
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40195 GHz	3.45 dBm		
M2	1		2.4 GHz	-44.62 dBm		
M3	1		2.39 GHz	-53.39 dBm		
M4	1		2.3483 GHz	-49.08 dBm		

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

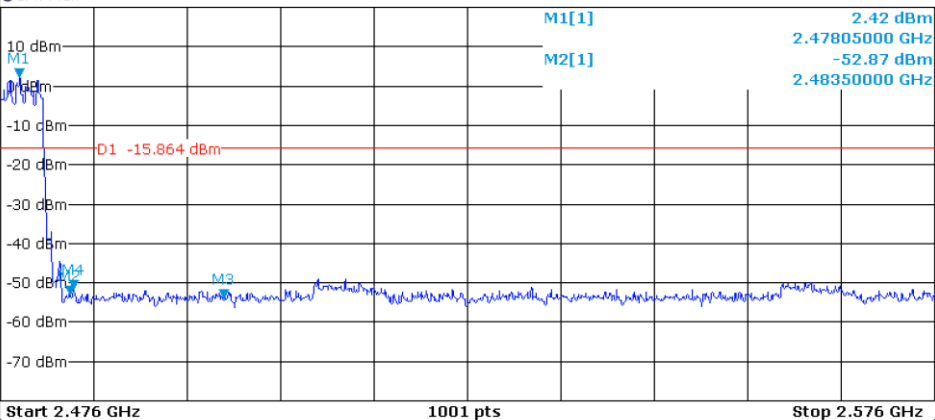


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

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 500/500

1Pk Max



Marker

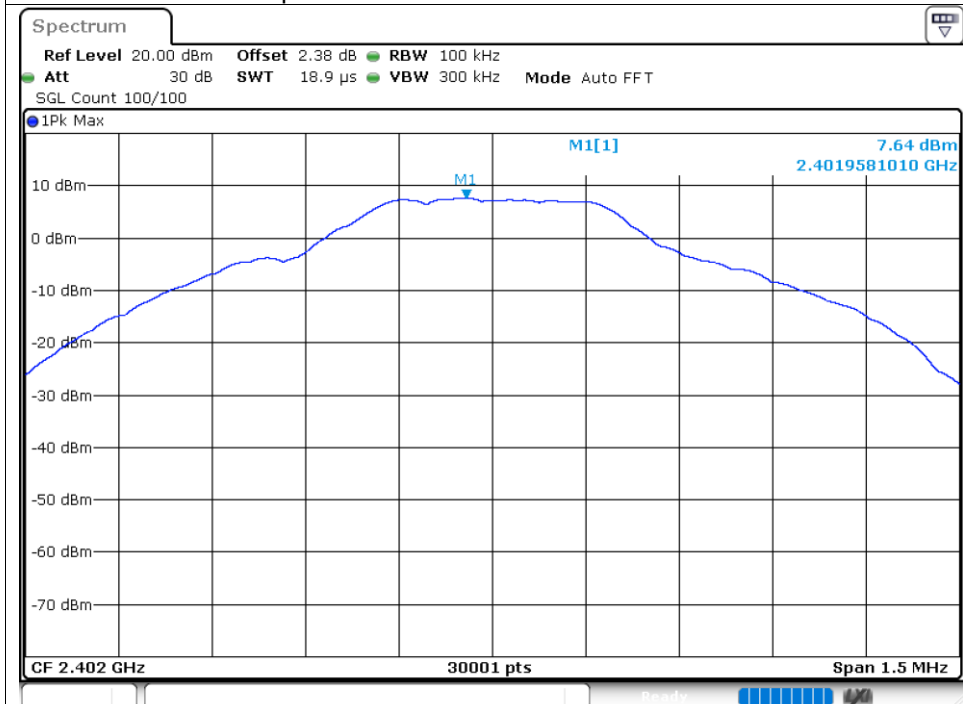
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47805 GHz	2.42 dBm		
M2		1	2.4835 GHz	-52.87 dBm		
M3		1	2.5 GHz	-53.73 dBm		
M4		1	2.4839 GHz	-51.62 dBm		

8.9 CONDUCTED RF SPURIOUS EMISSION

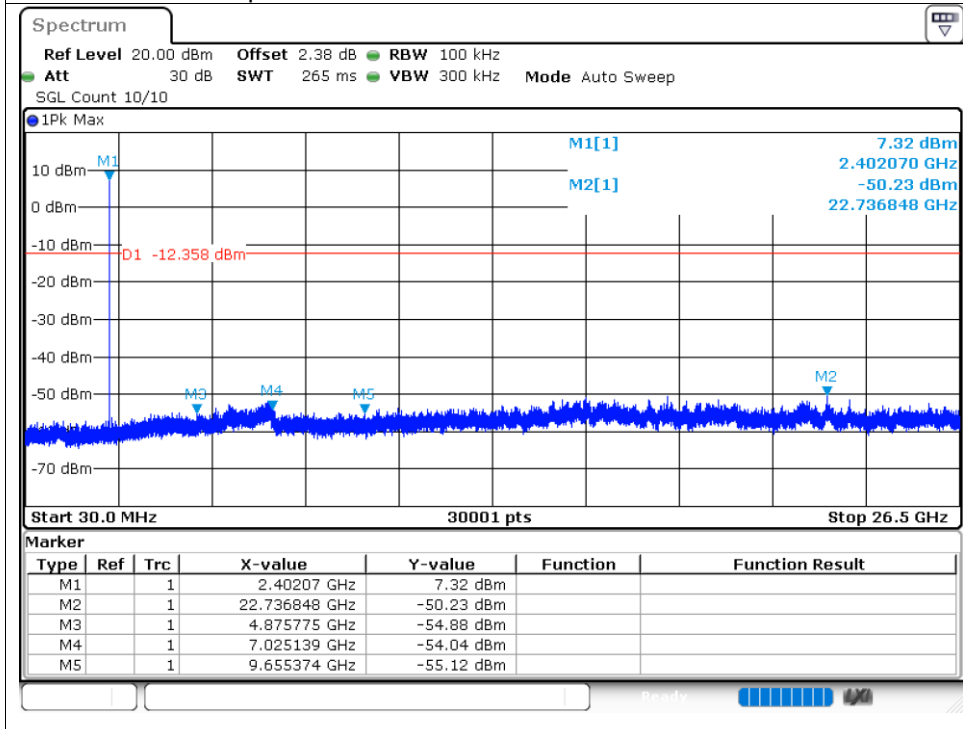
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-57.86	-20	Pass
NVNT	1-DH5	2441	Ant1	-58.61	-20	Pass
NVNT	1-DH5	2480	Ant1	-57.96	-20	Pass
NVNT	2-DH5	2402	Ant1	-55.07	-20	Pass
NVNT	2-DH5	2441	Ant1	-55.29	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.07	-20	Pass
NVNT	3-DH5	2402	Ant1	-55.76	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.61	-20	Pass
NVNT	3-DH5	2480	Ant1	-53.72	-20	Pass

Test Graphs

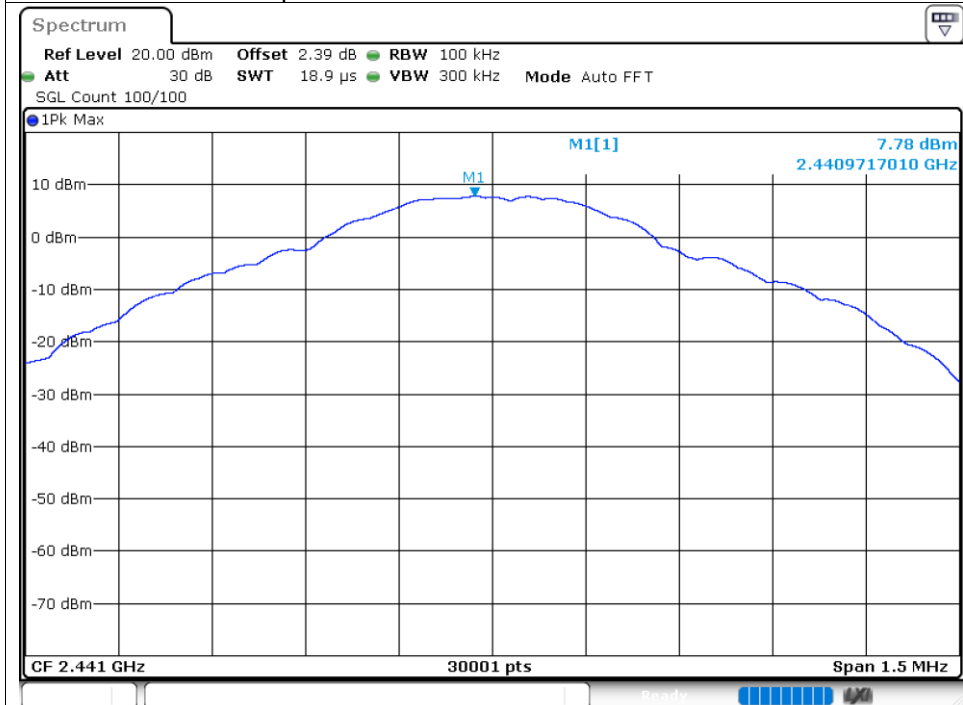
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



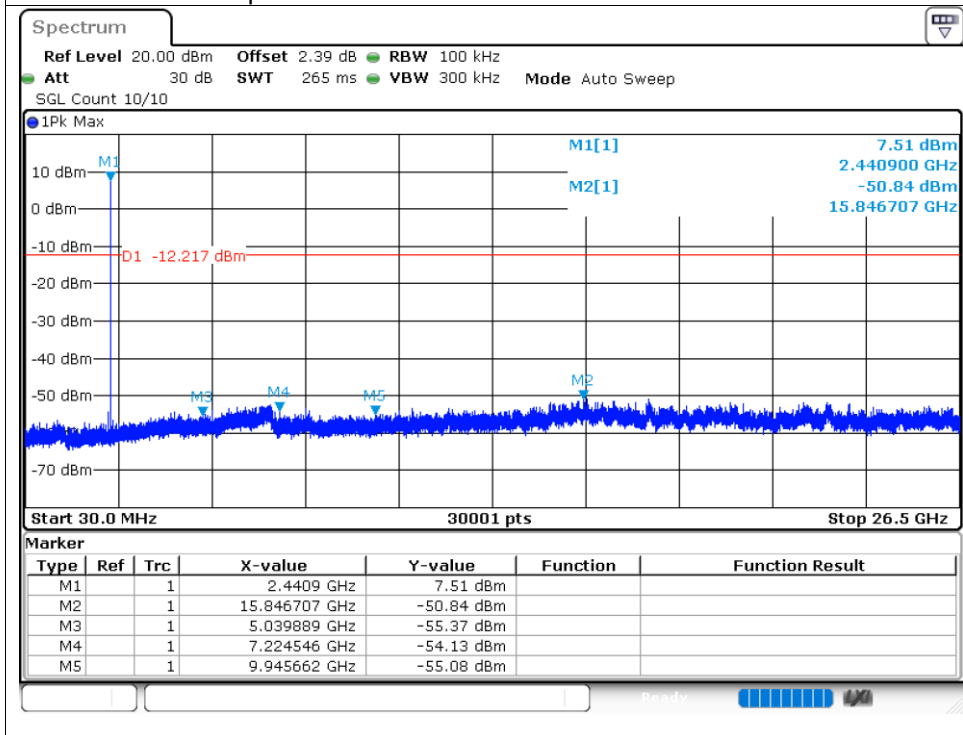
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



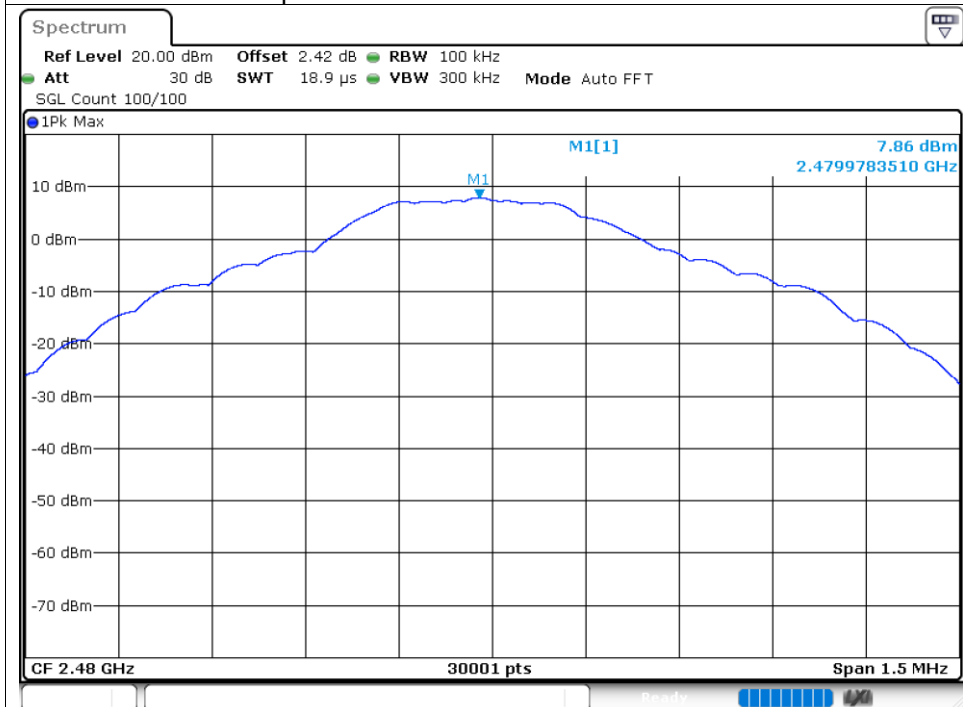
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



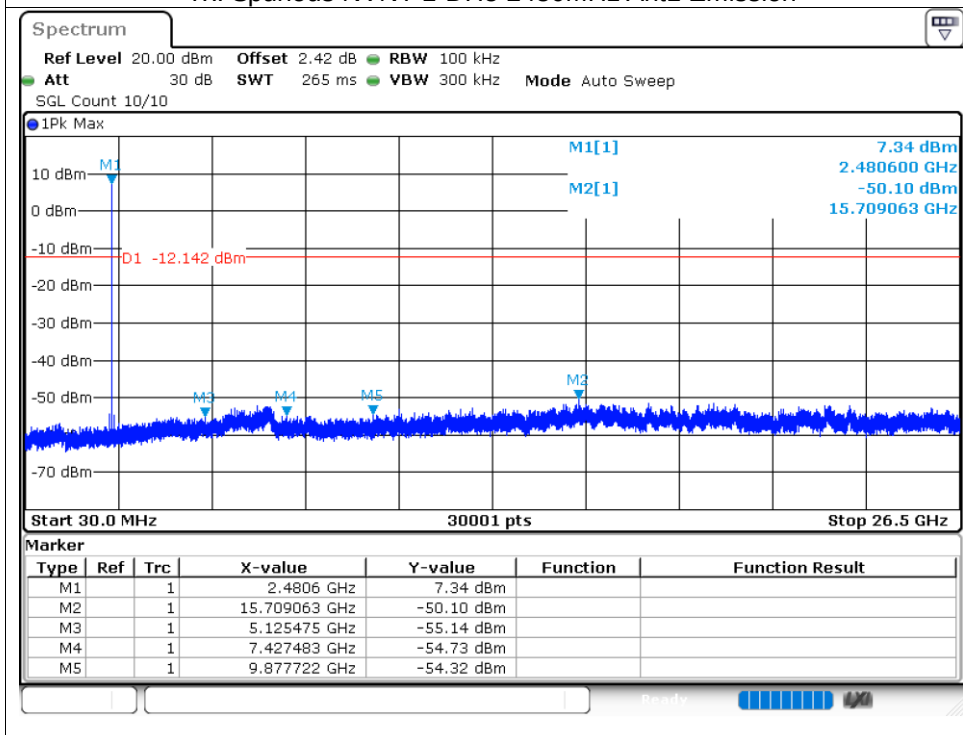
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



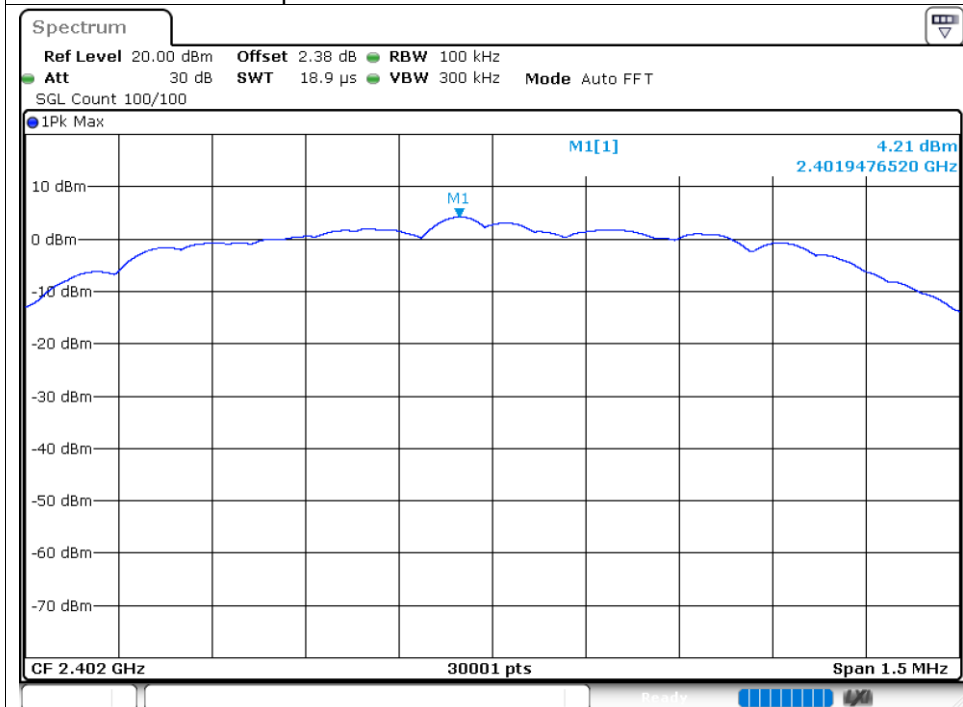
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



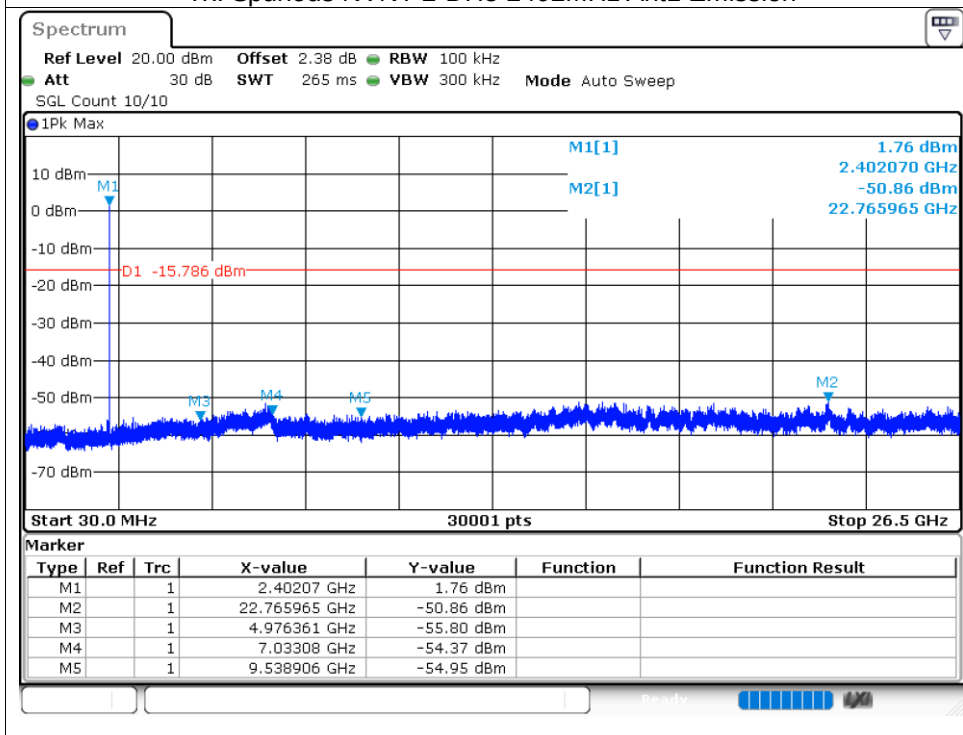
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



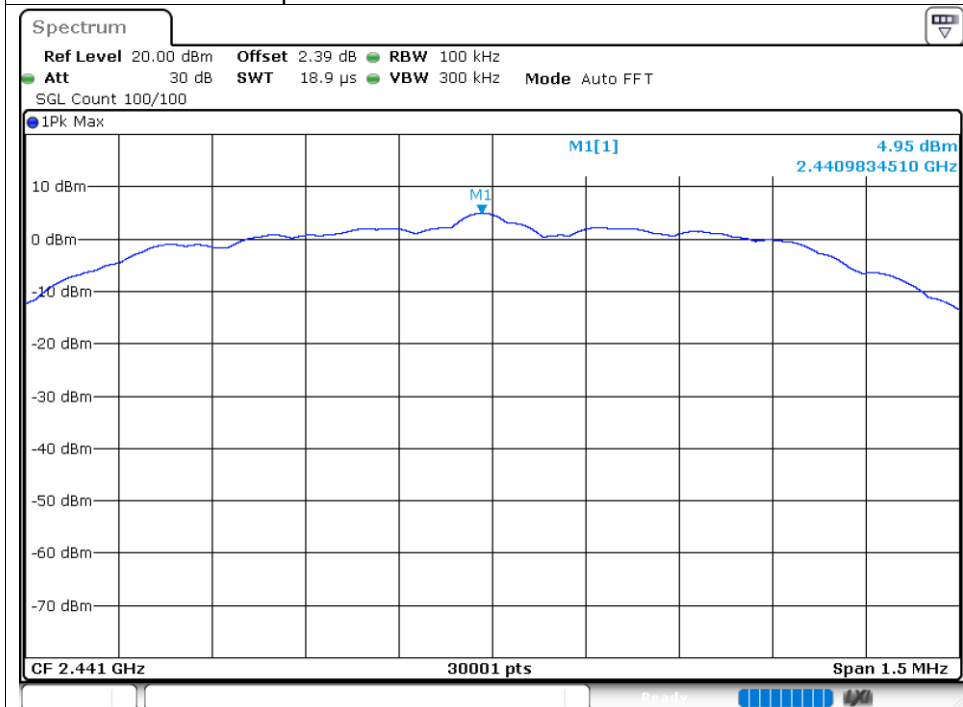
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



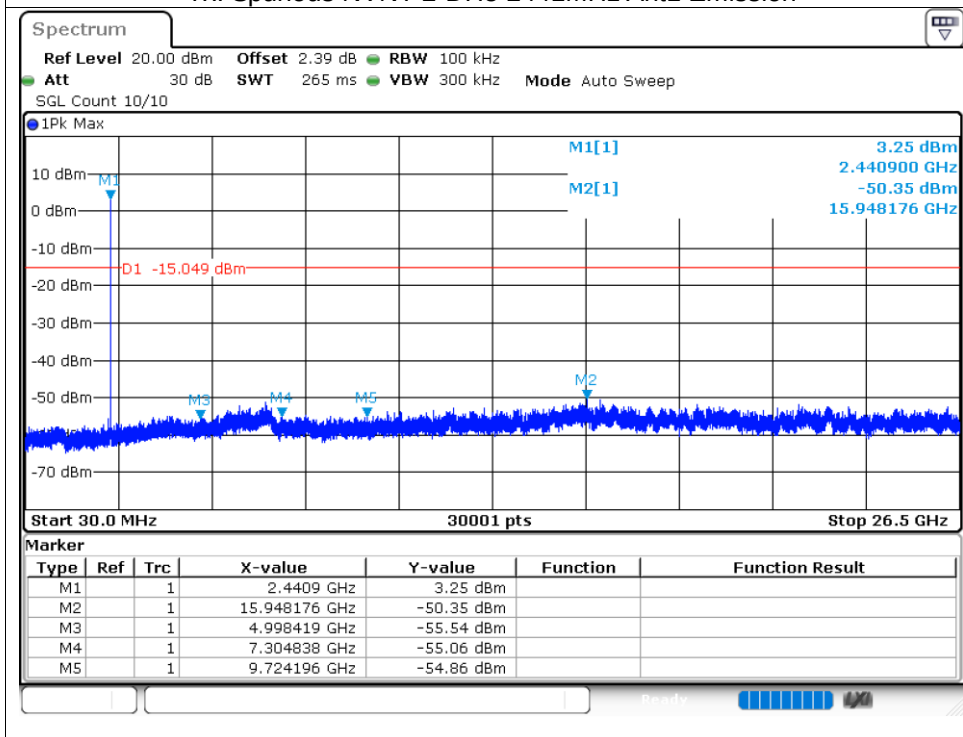
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



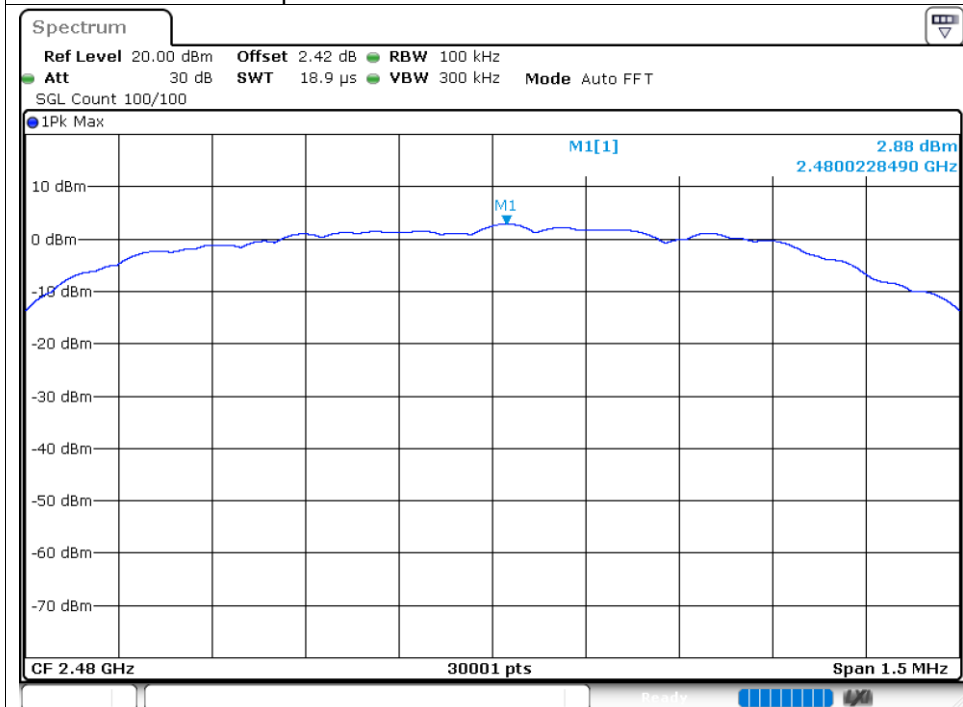
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



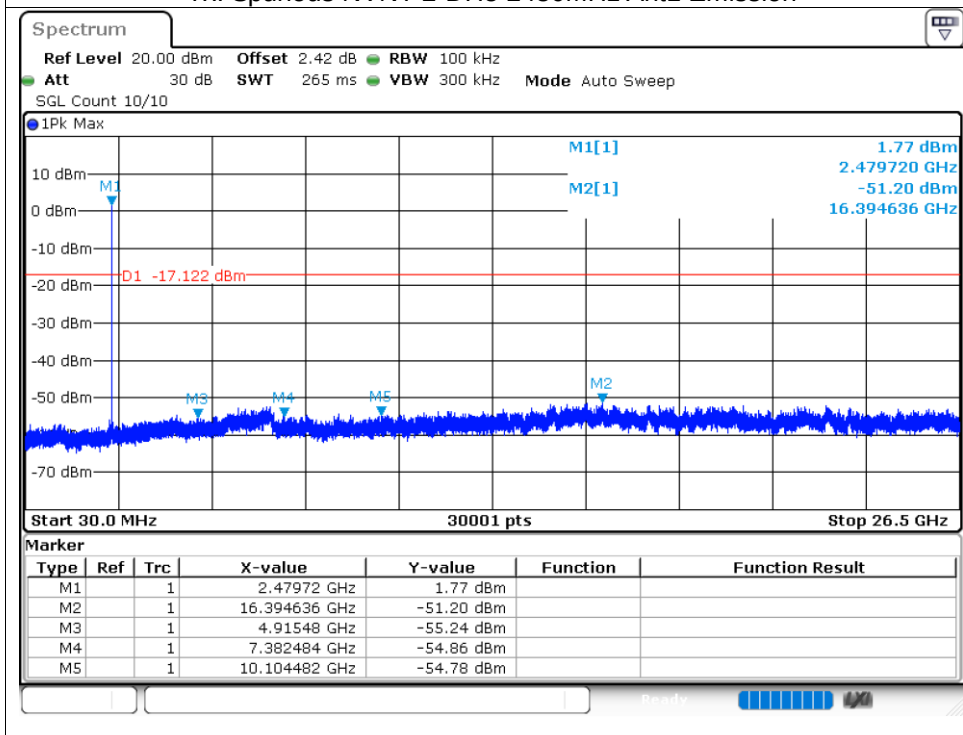
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



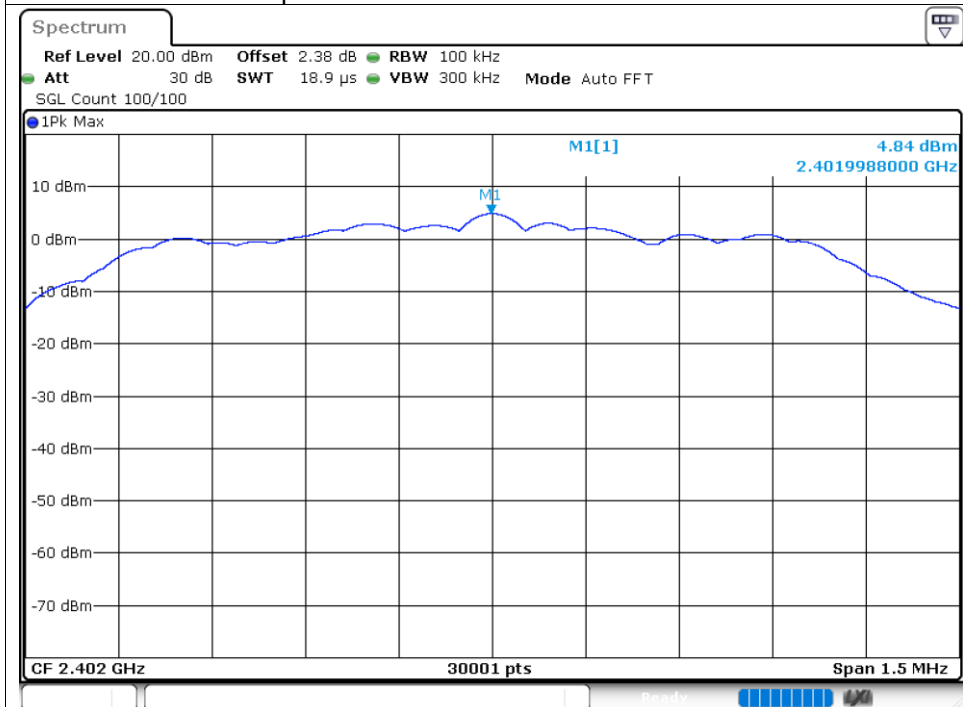
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



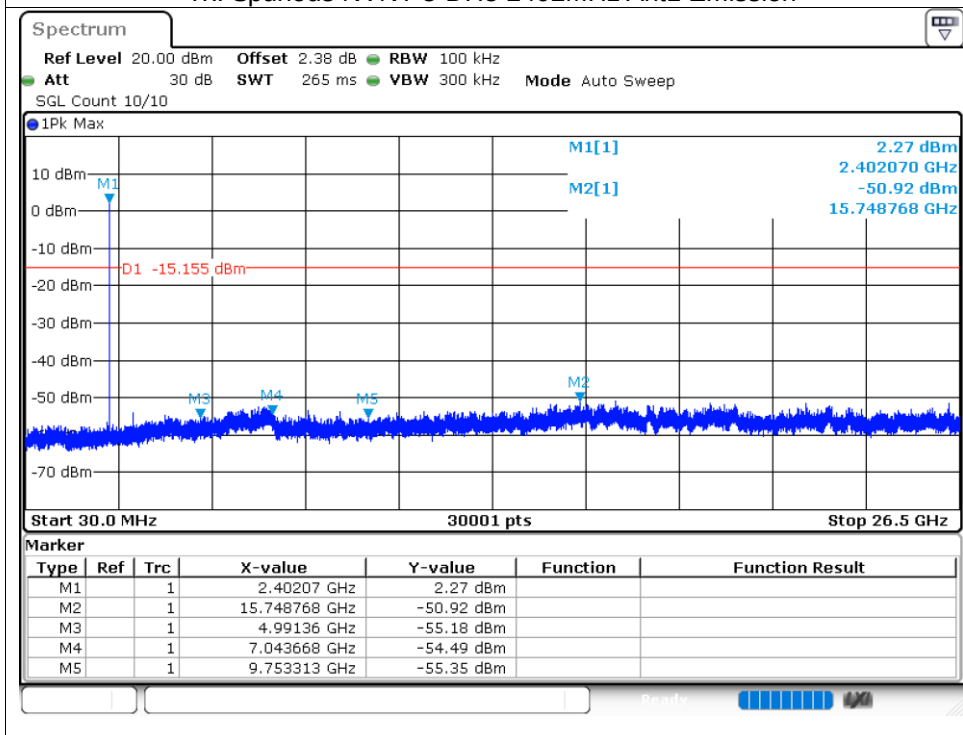
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



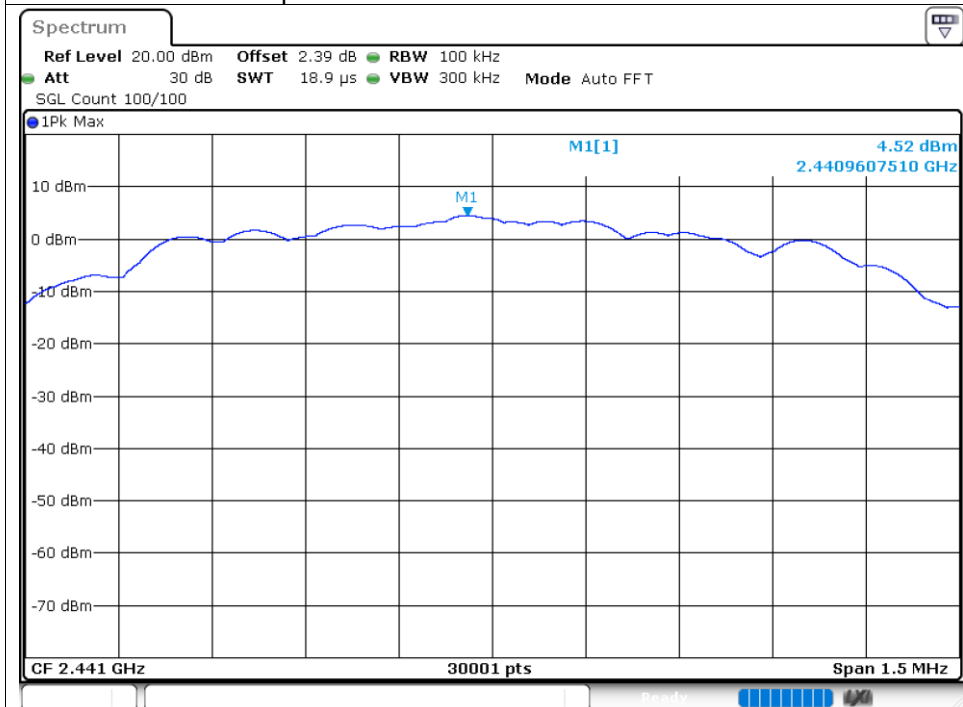
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



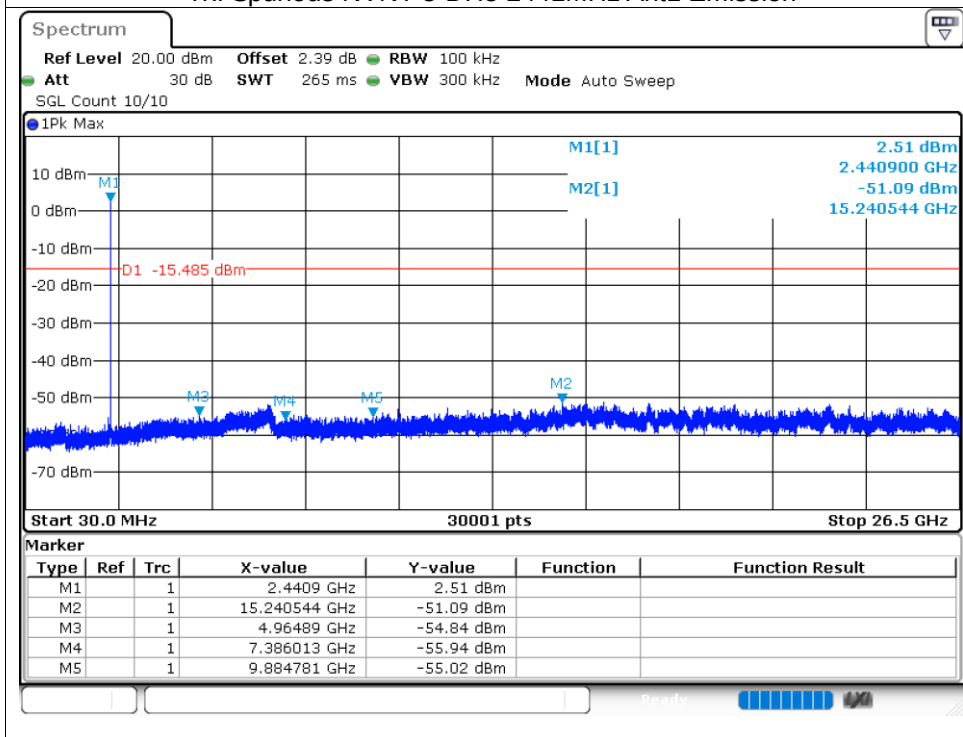
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



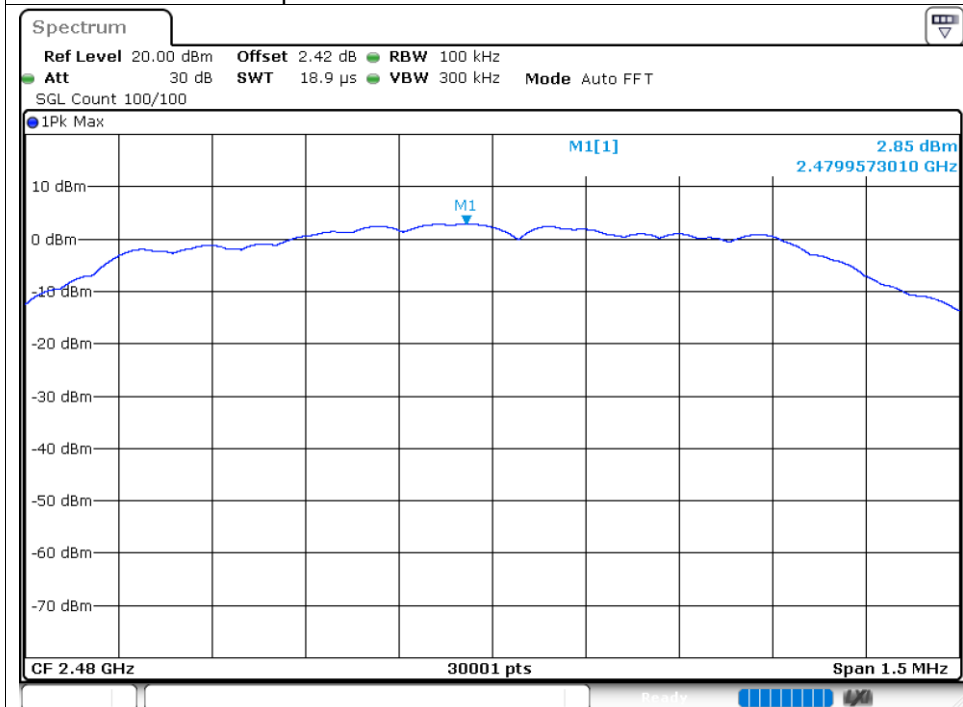
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



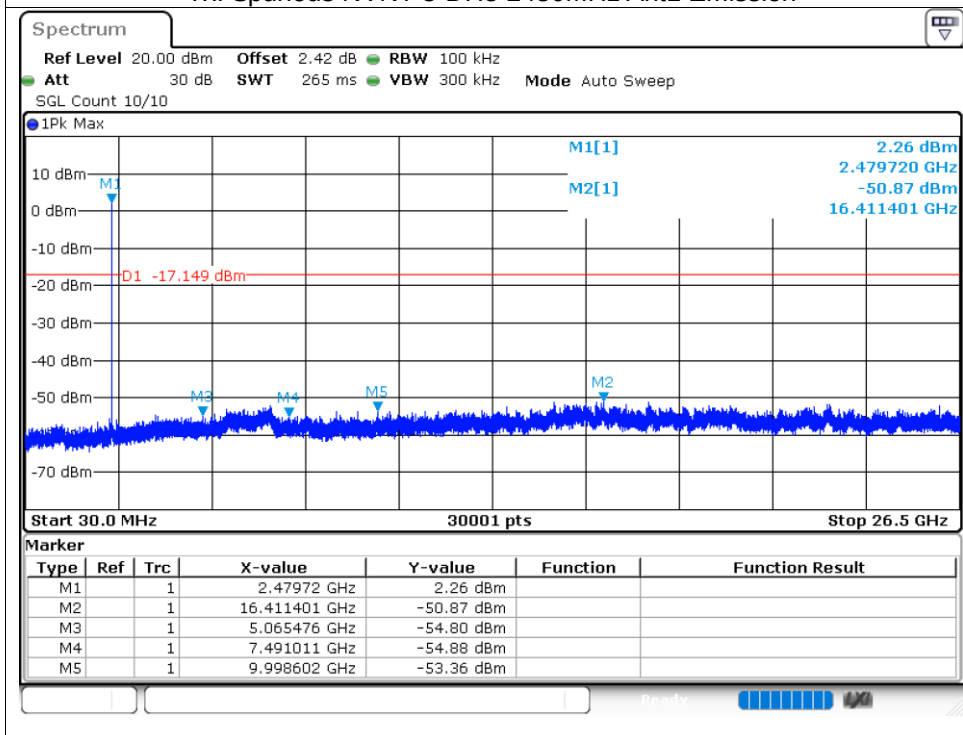
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



END OF REPORT