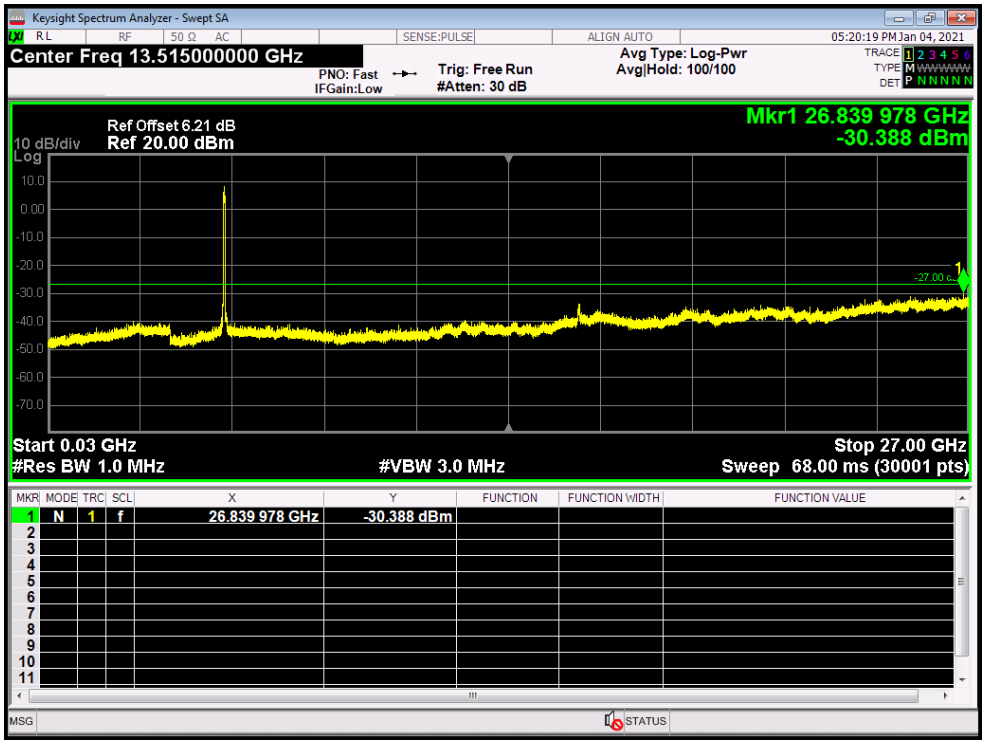
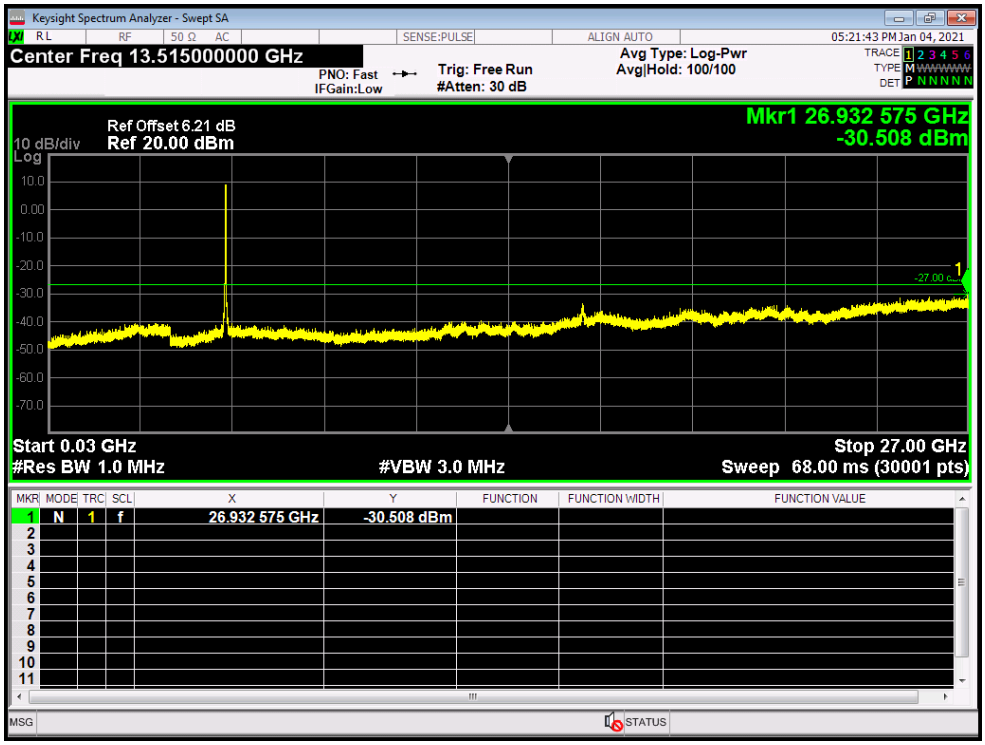
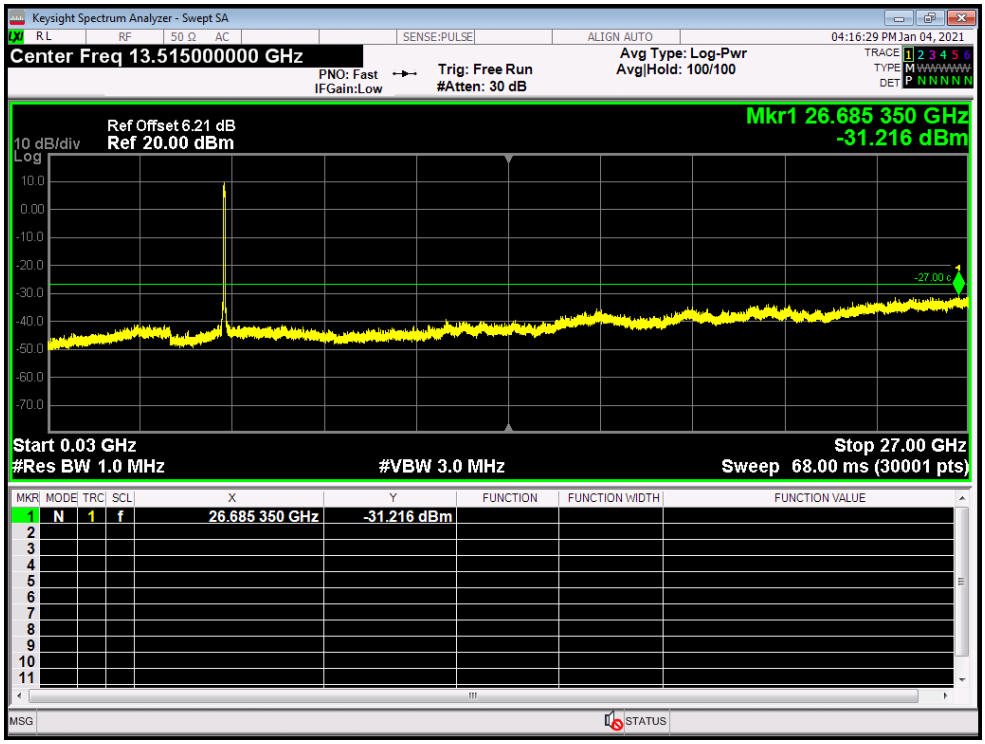
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



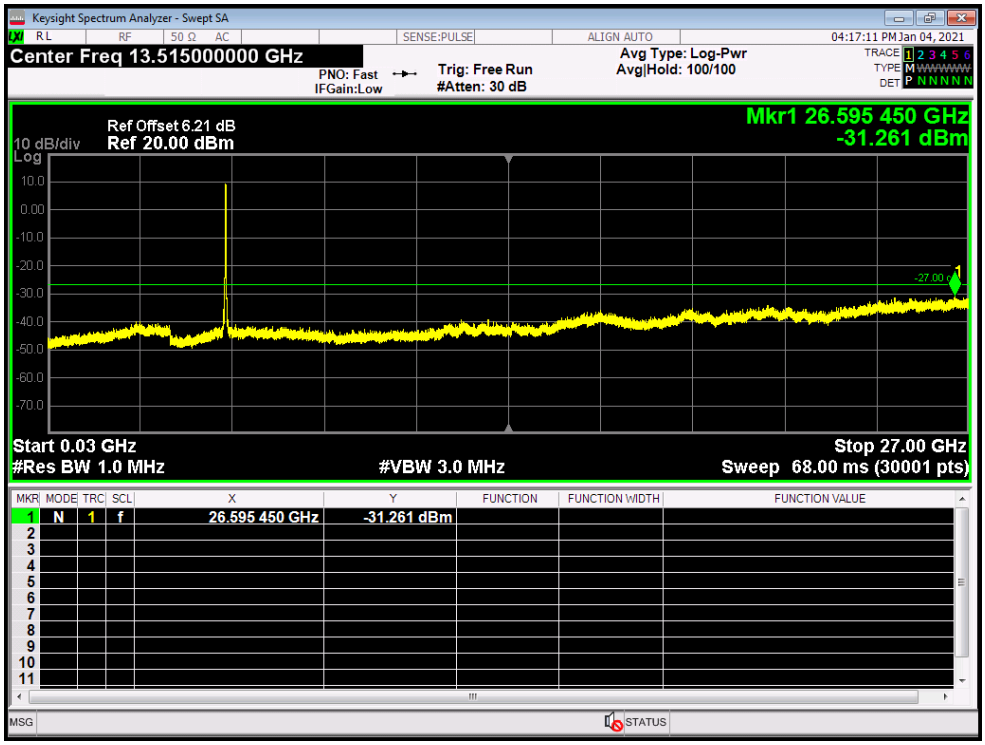
Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



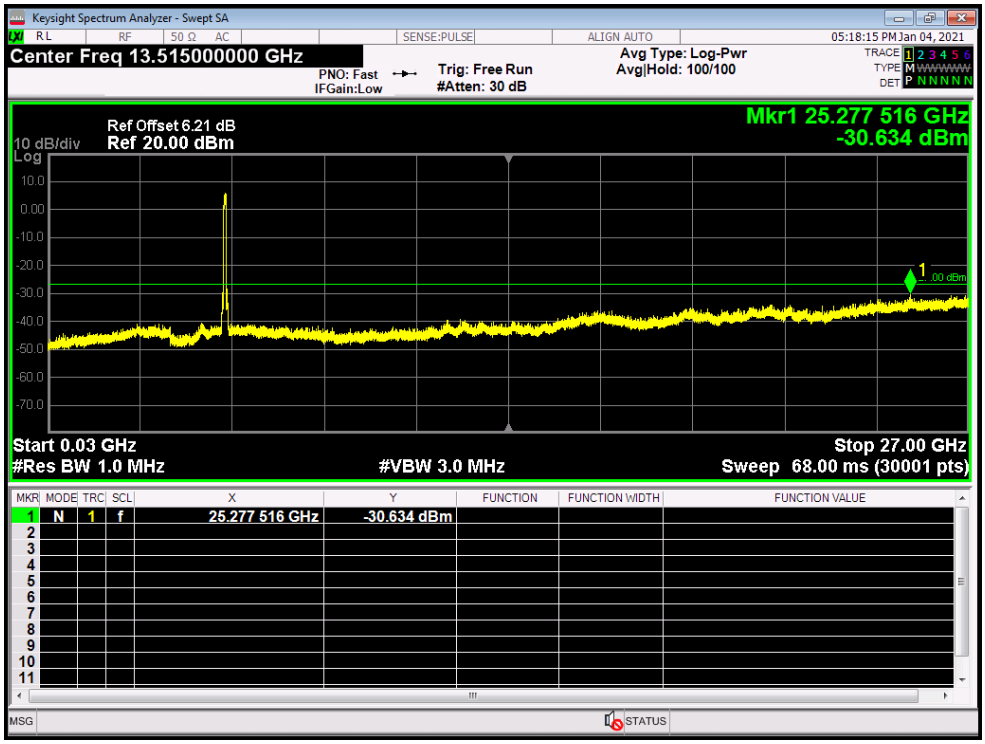
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



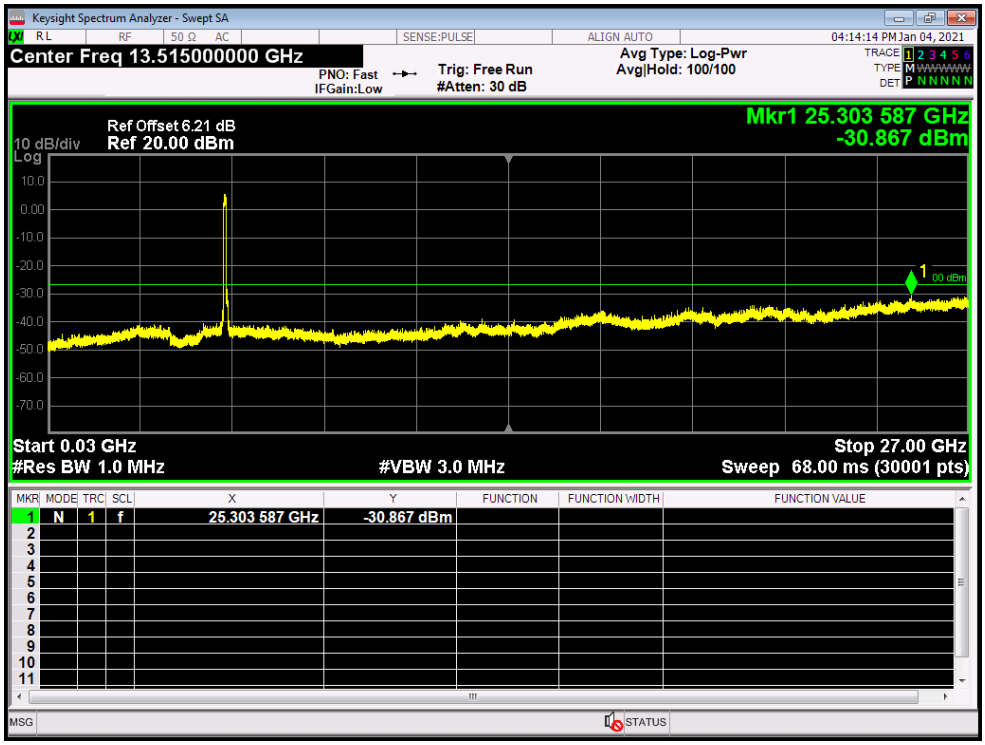
Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



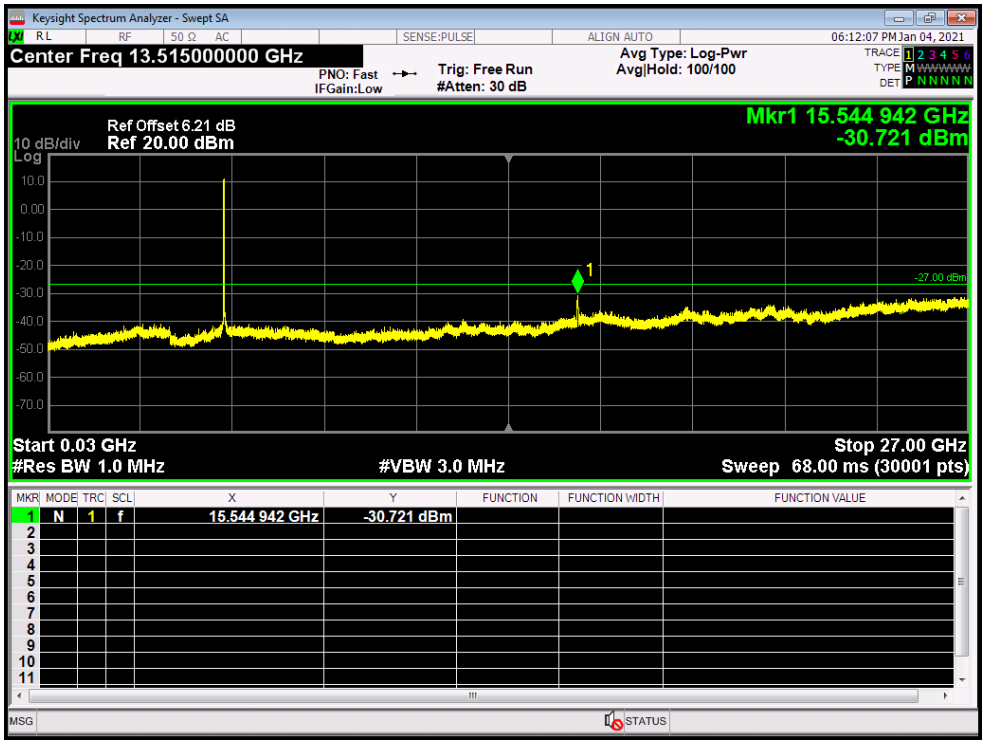
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



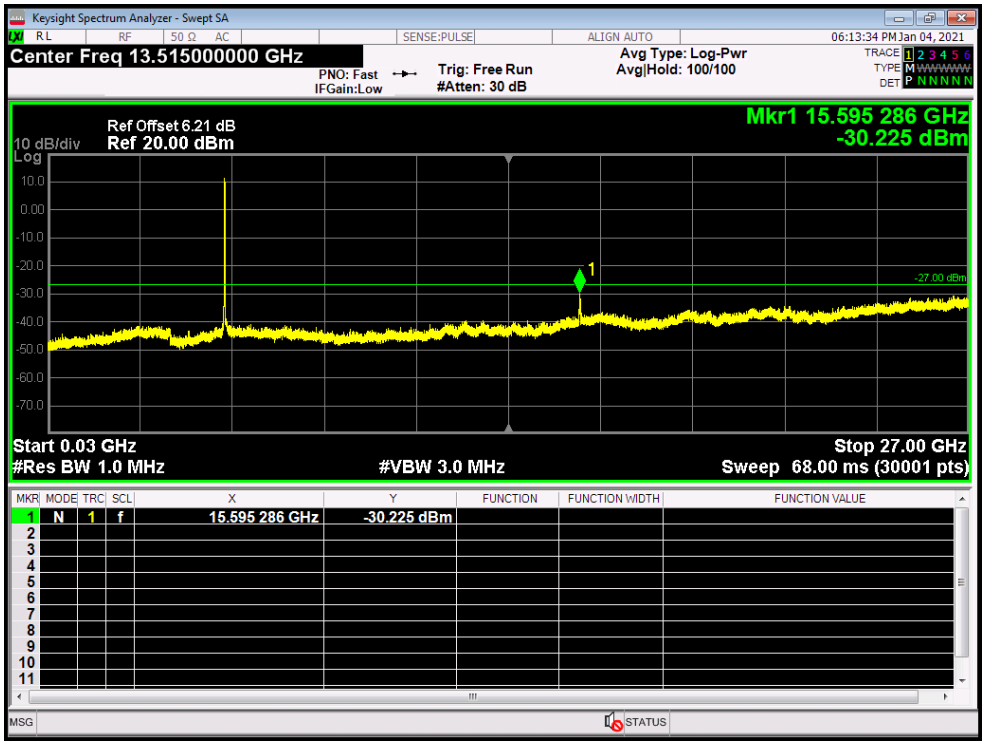
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



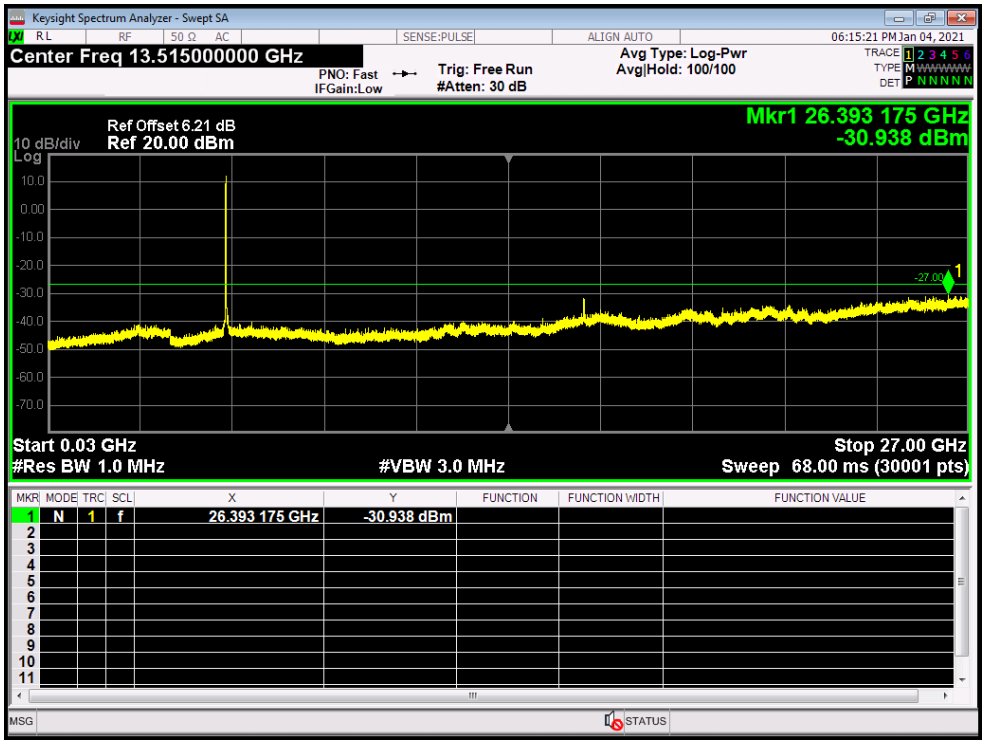
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



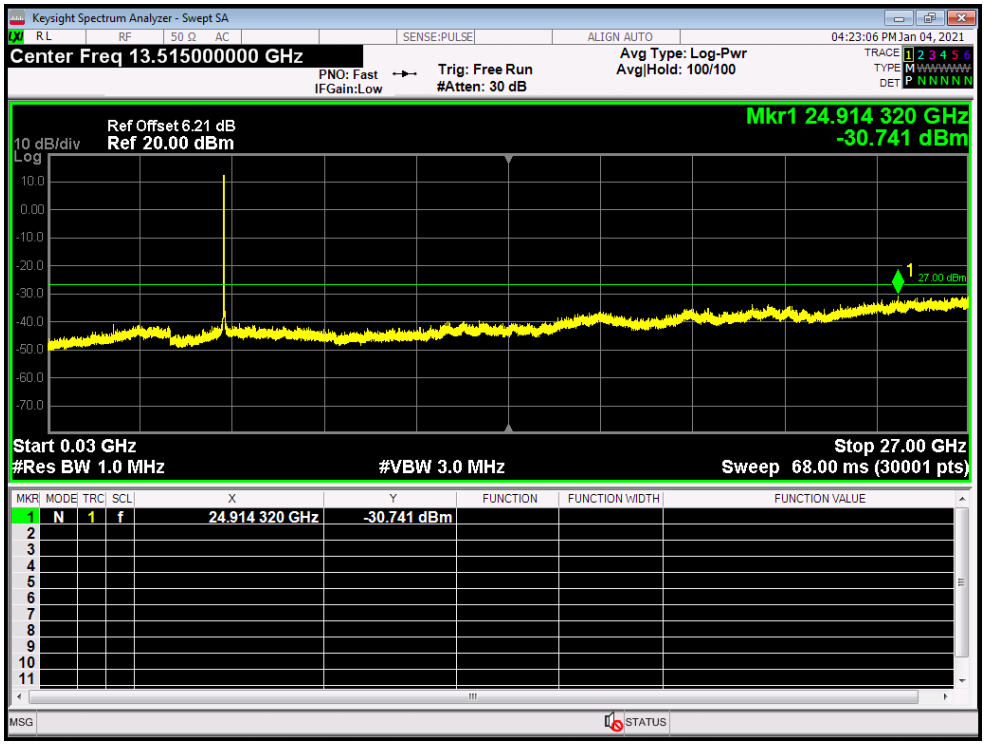
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



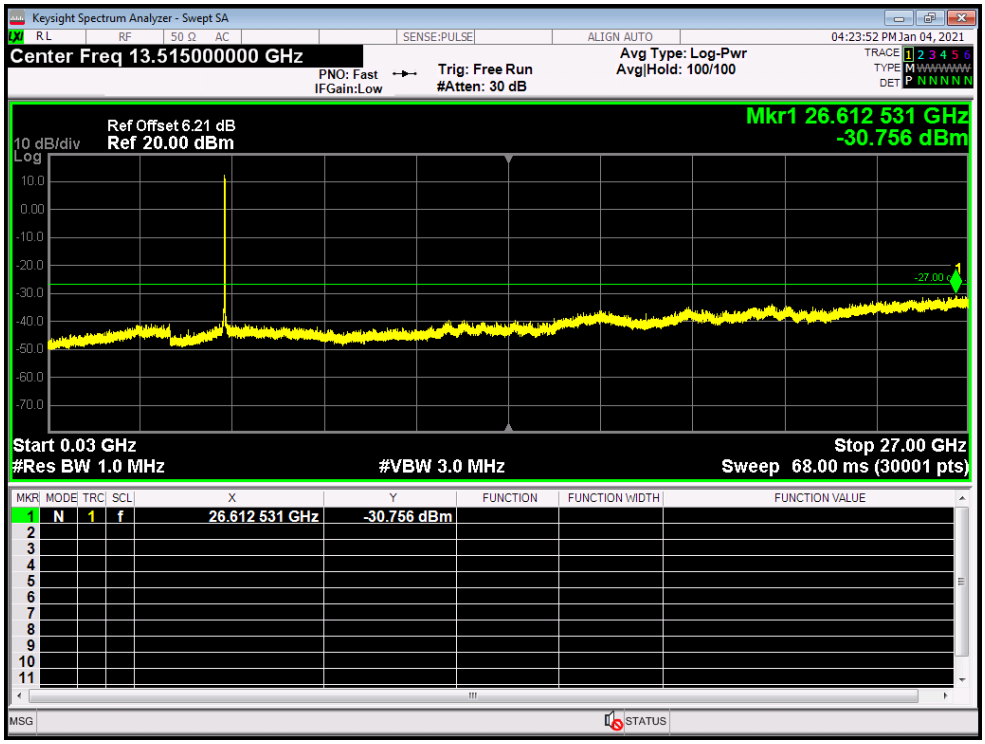
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



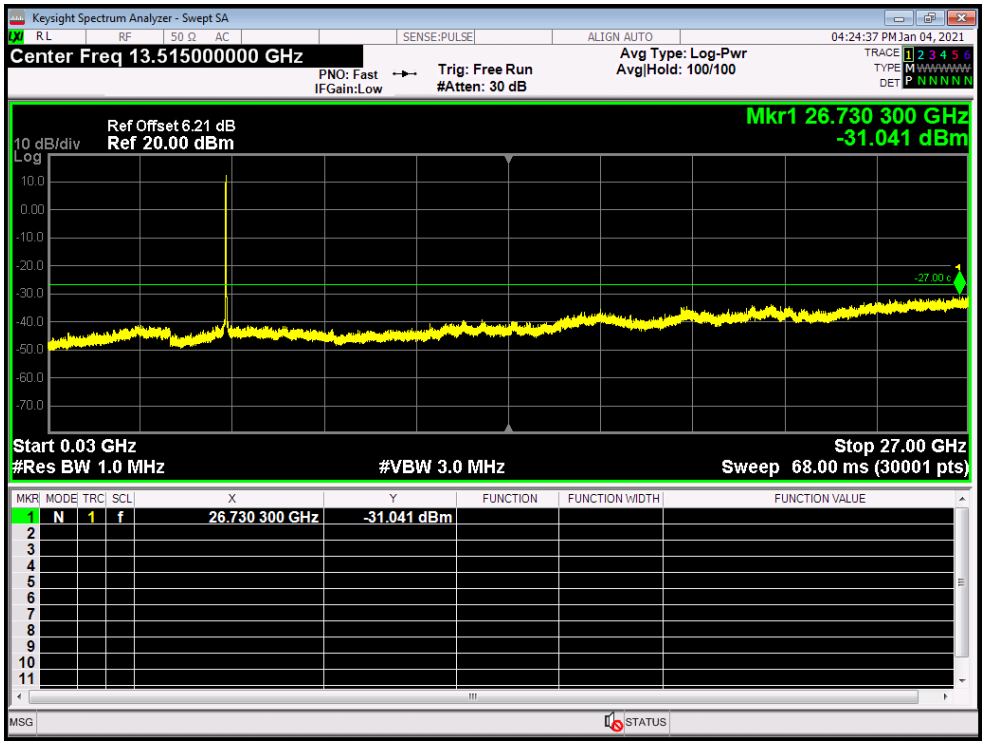
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



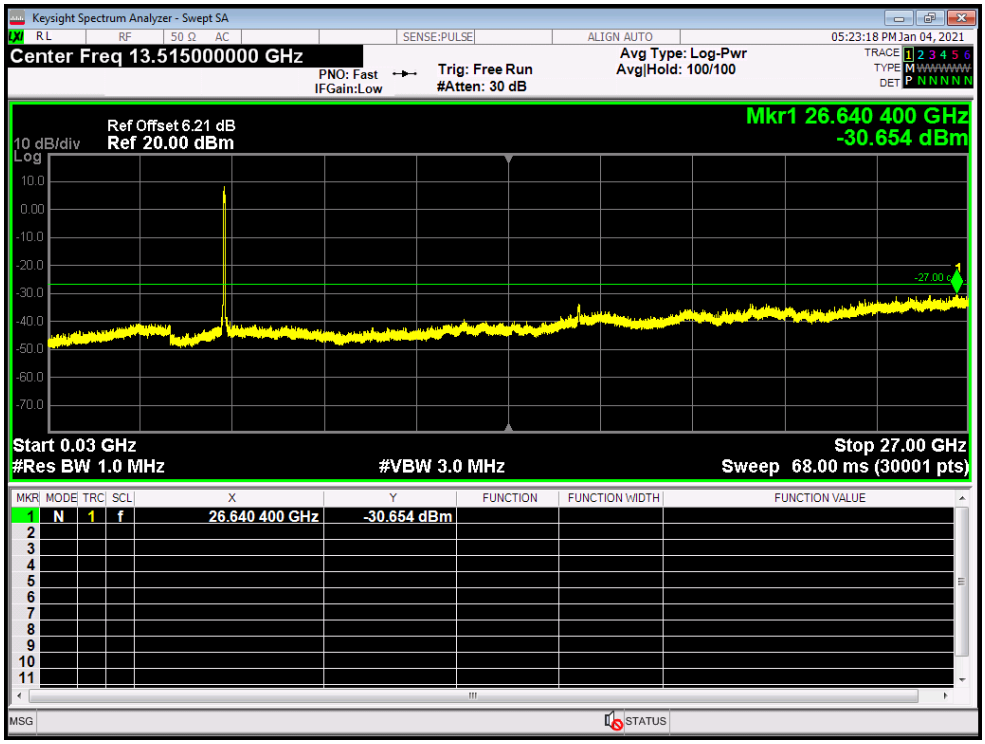
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



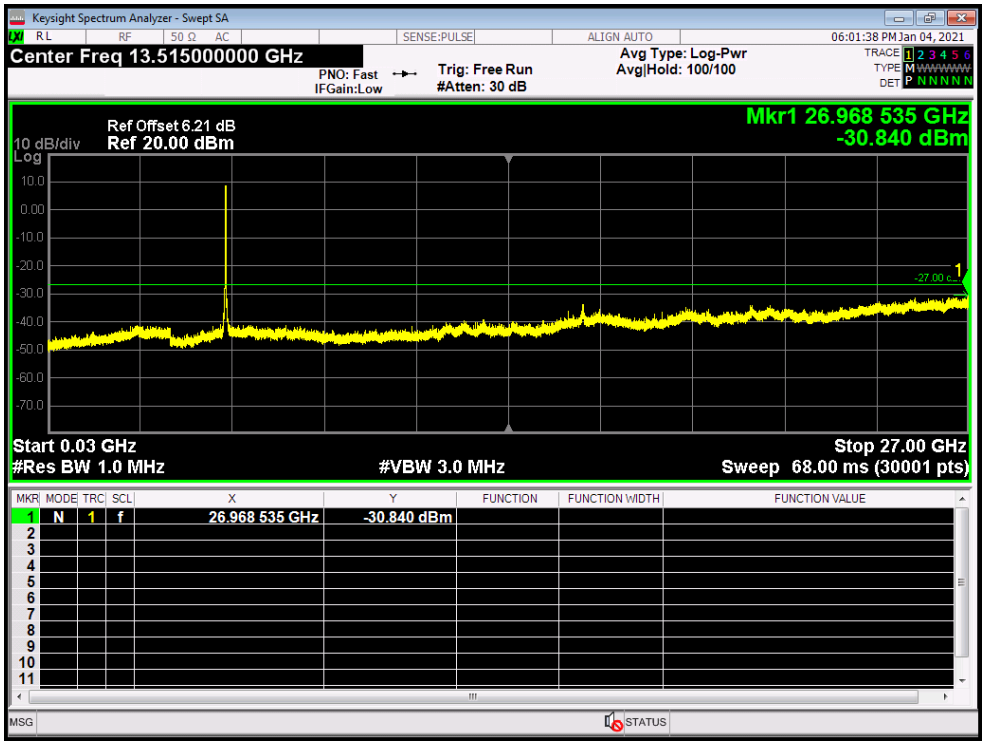
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



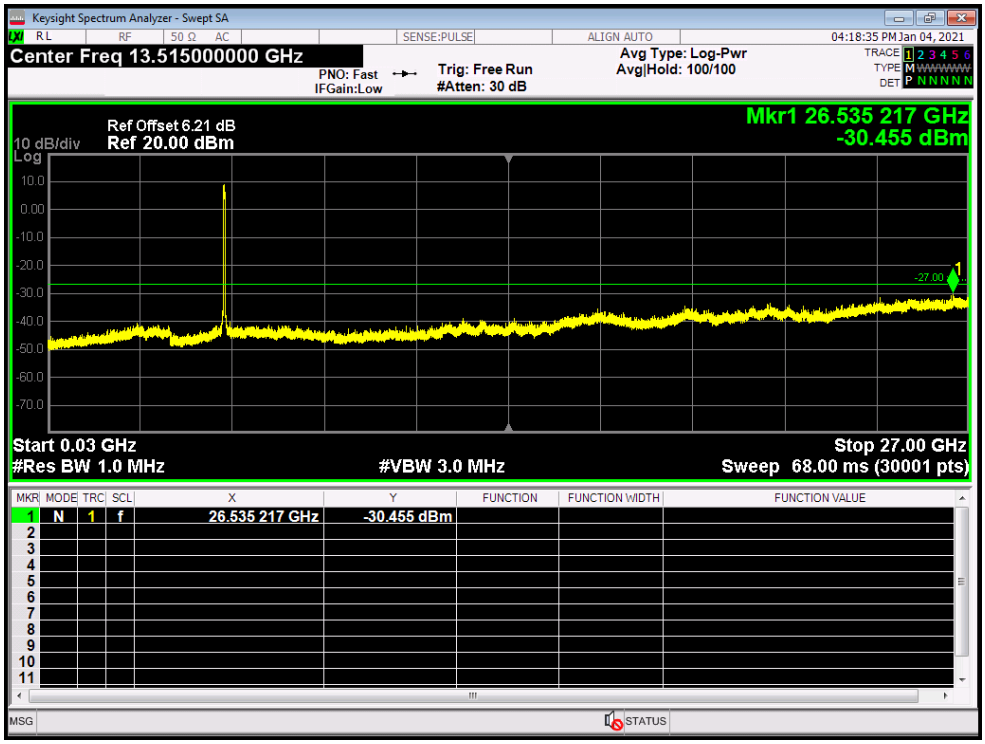
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



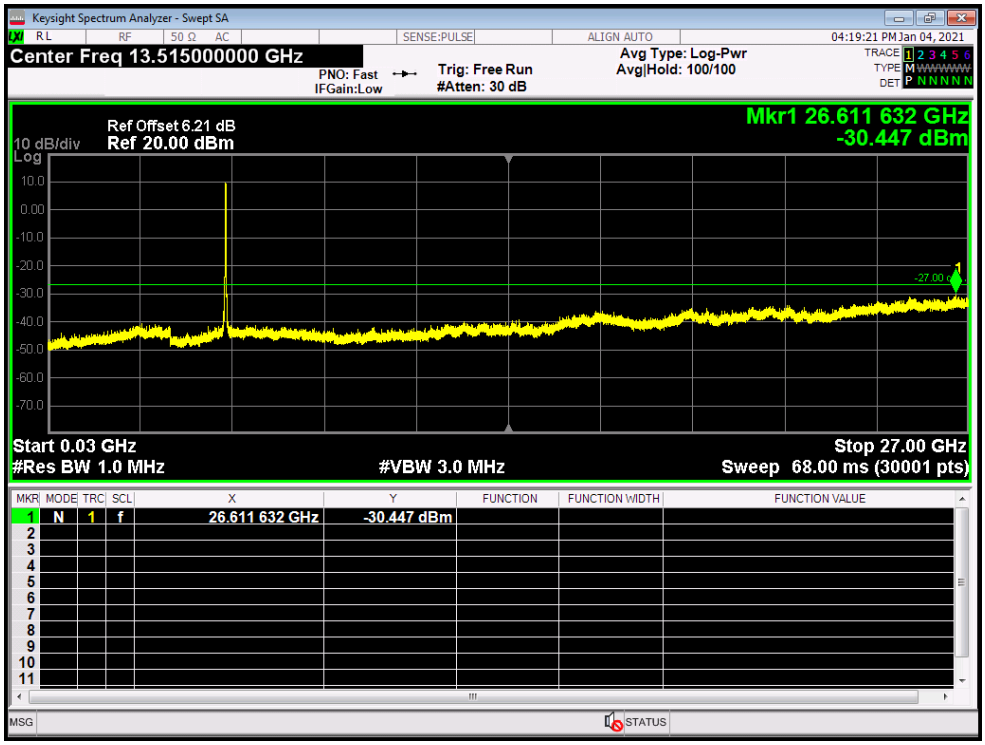
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission

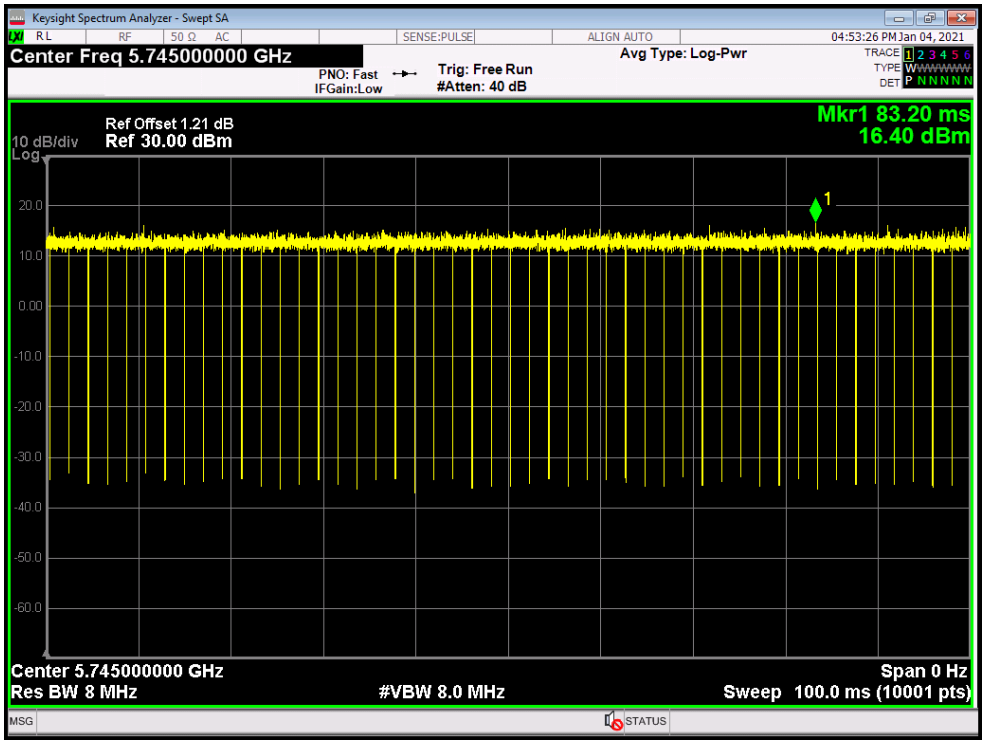


5.8G:

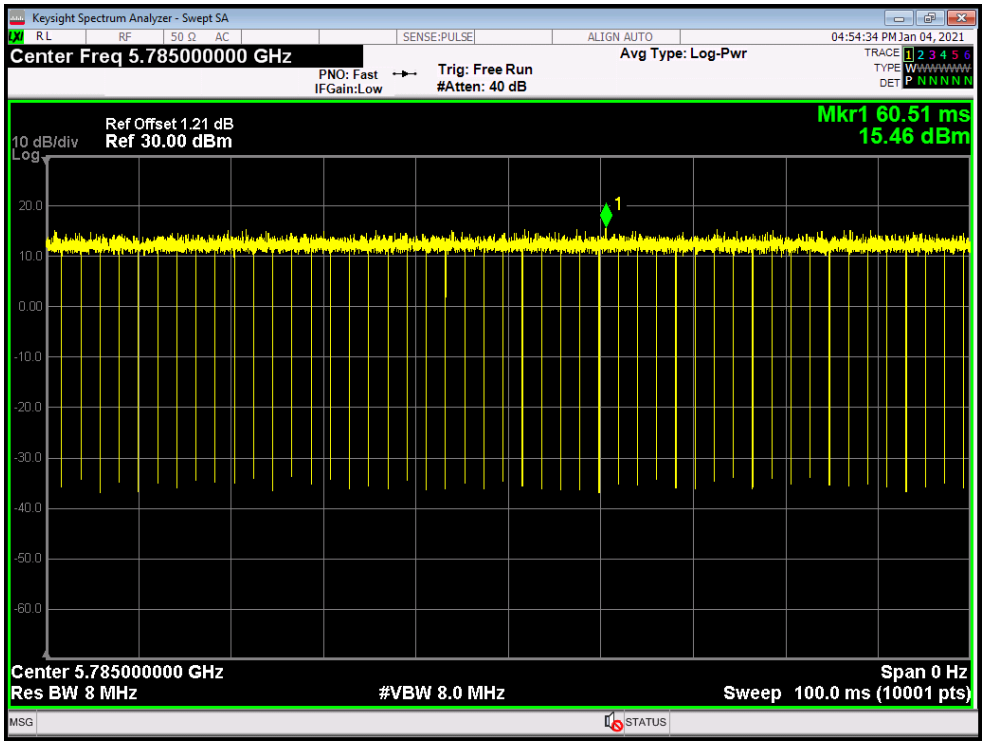
DUTY CYCLE

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	100	0
NVNT	a	5785	Ant1	100	0
NVNT	a	5825	Ant1	100	0
NVNT	ac20	5745	Ant1	100	0
NVNT	ac20	5785	Ant1	100	0
NVNT	ac20	5825	Ant1	100	0
NVNT	ac40	5755	Ant1	100	0
NVNT	ac40	5795	Ant1	100	0
NVNT	ac80	5775	Ant1	96.56	0.15
NVNT	n20	5745	Ant1	100	0
NVNT	n20	5785	Ant1	100	0
NVNT	n20	5825	Ant1	100	0
NVNT	n40	5755	Ant1	100	0
NVNT	n40	5795	Ant1	100	0

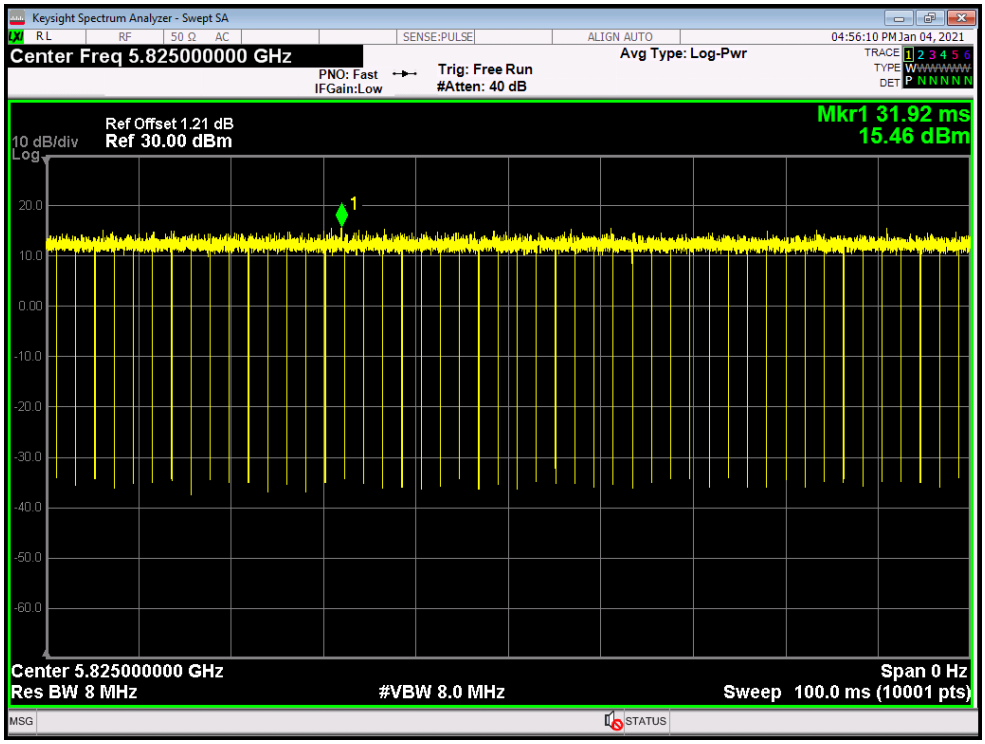
Duty Cycle NVNT a 5745MHz Ant1



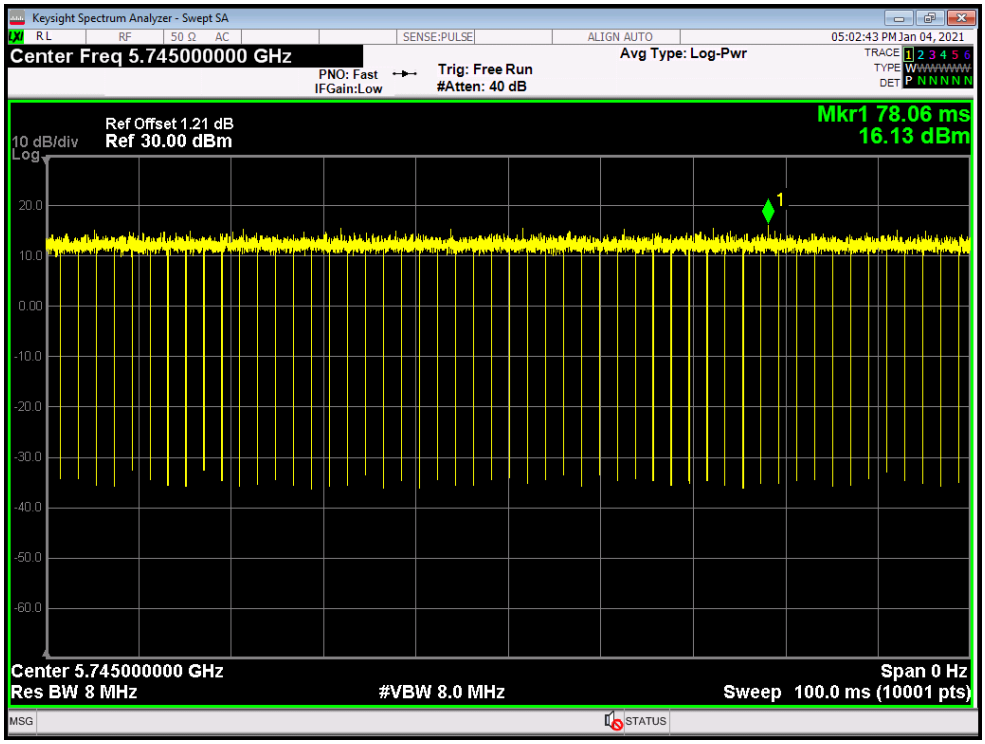
Duty Cycle NVNT a 5785MHz Ant1



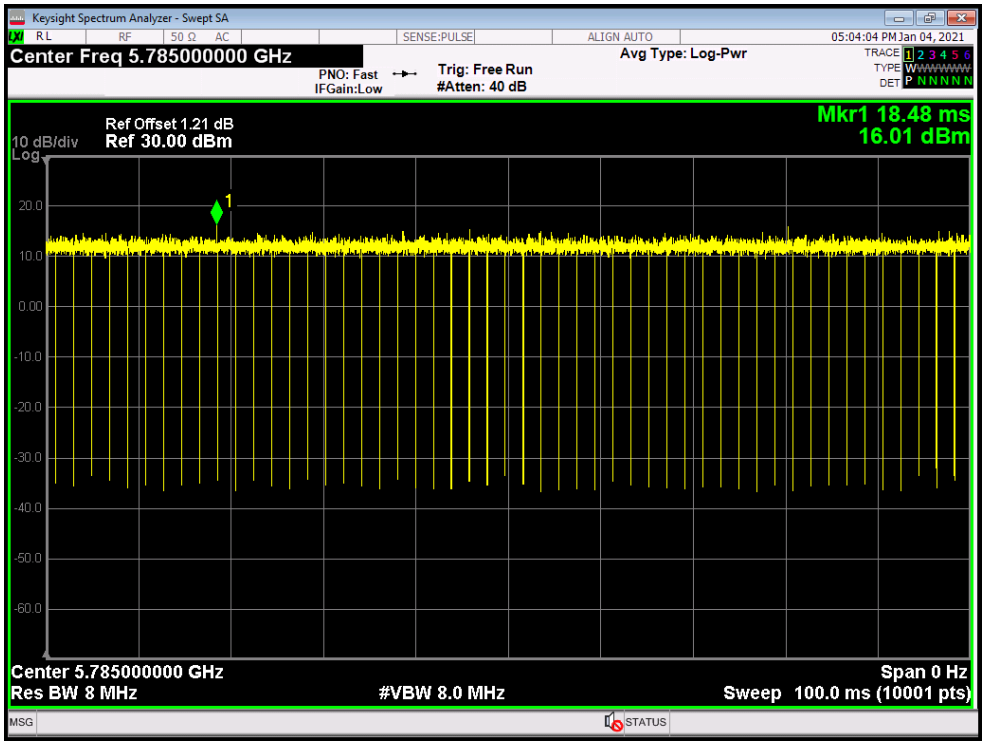
Duty Cycle NVNT a 5825MHz Ant1



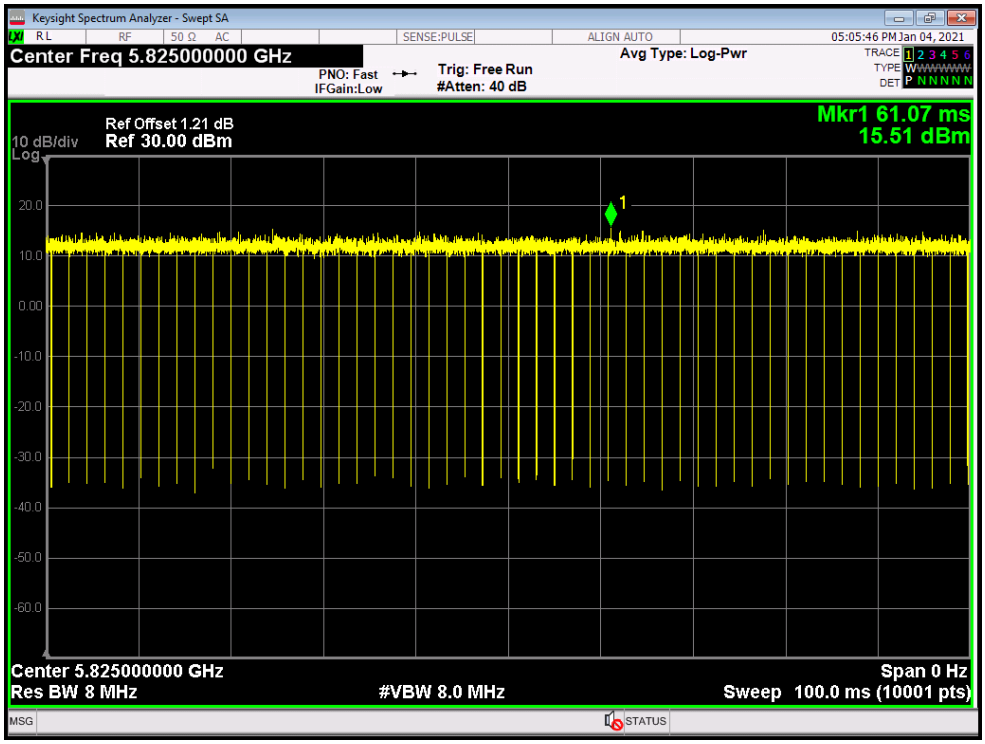
Duty Cycle NVNT ac20 5745MHz Ant1



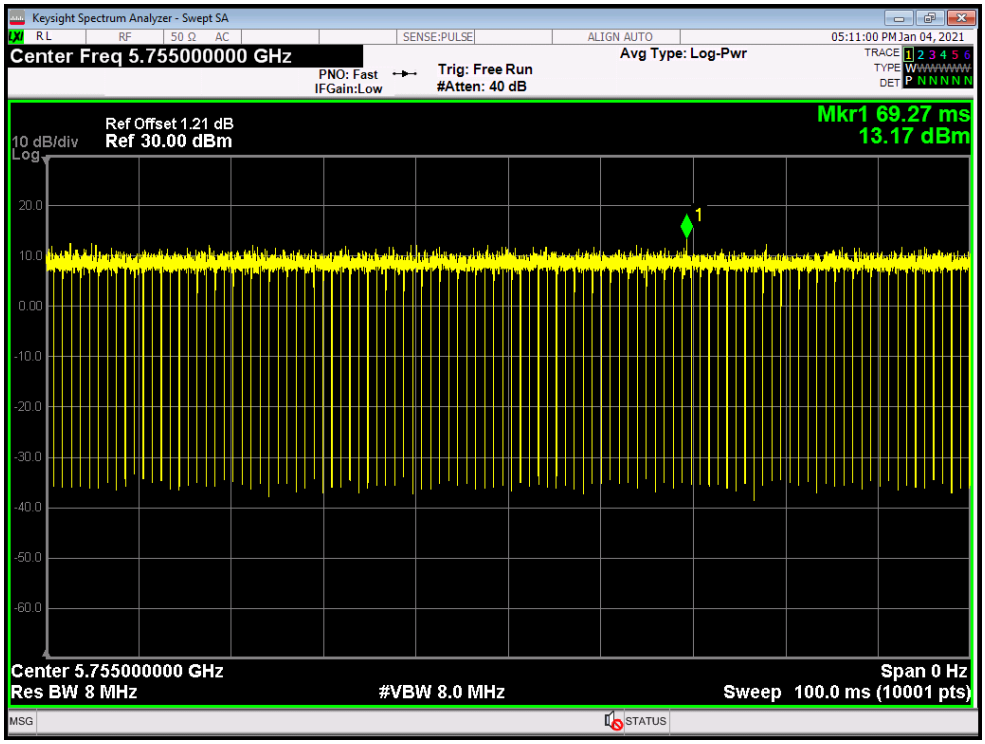
Duty Cycle NVNT ac20 5785MHz Ant1



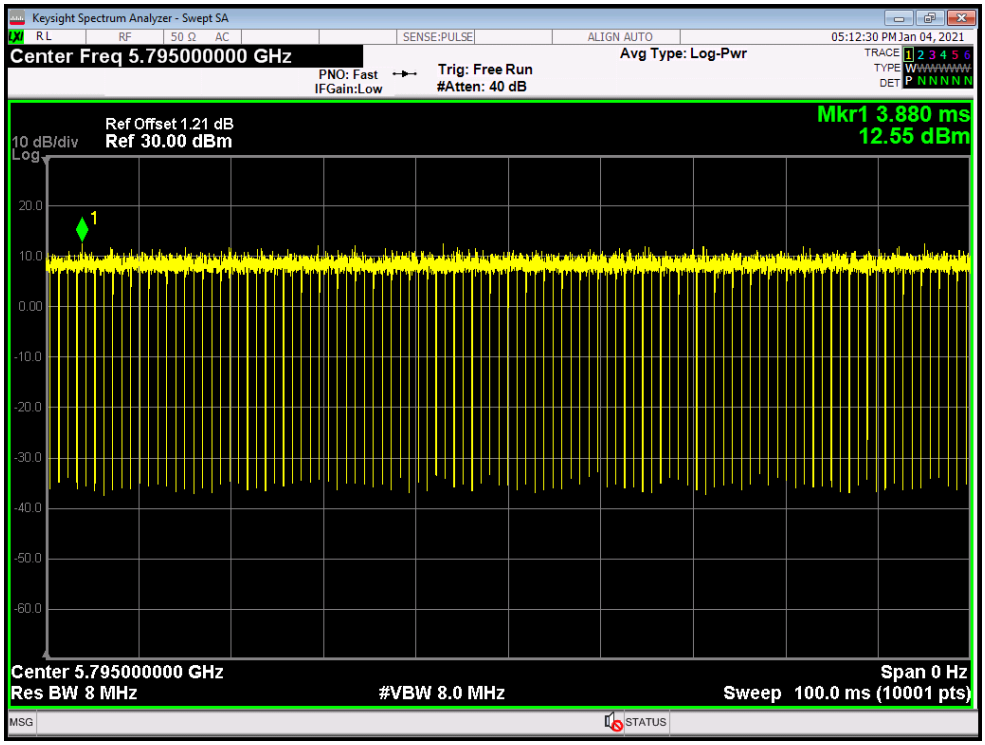
Duty Cycle NVNT ac20 5825MHz Ant1



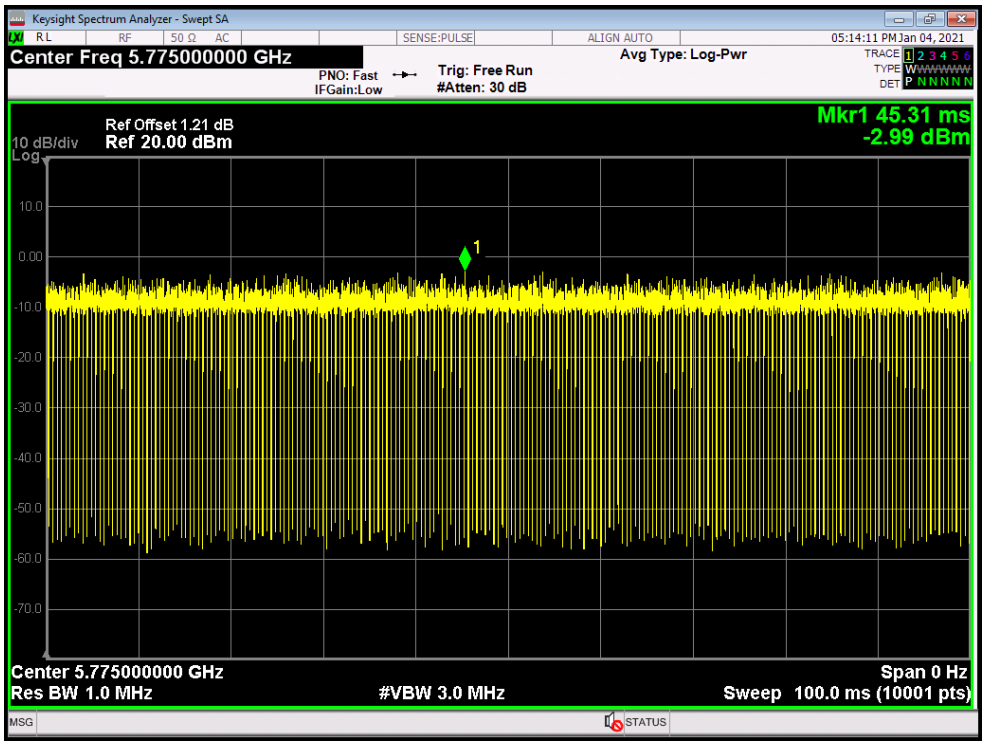
Duty Cycle NVNT ac40 5755MHz Ant1



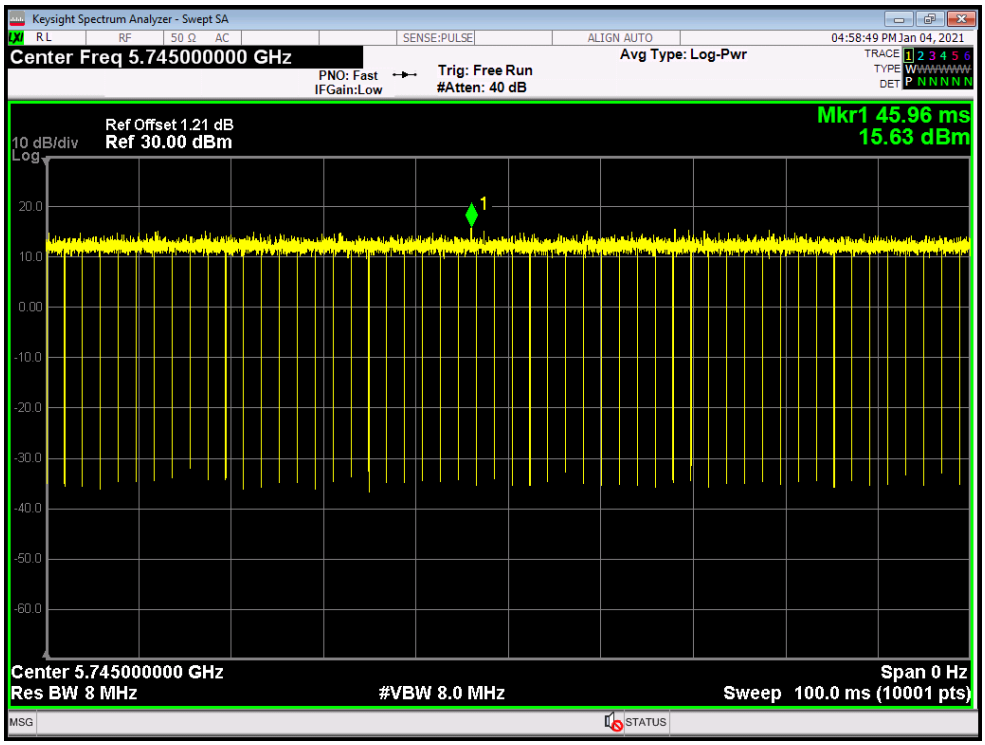
Duty Cycle NVNT ac40 5795MHz Ant1



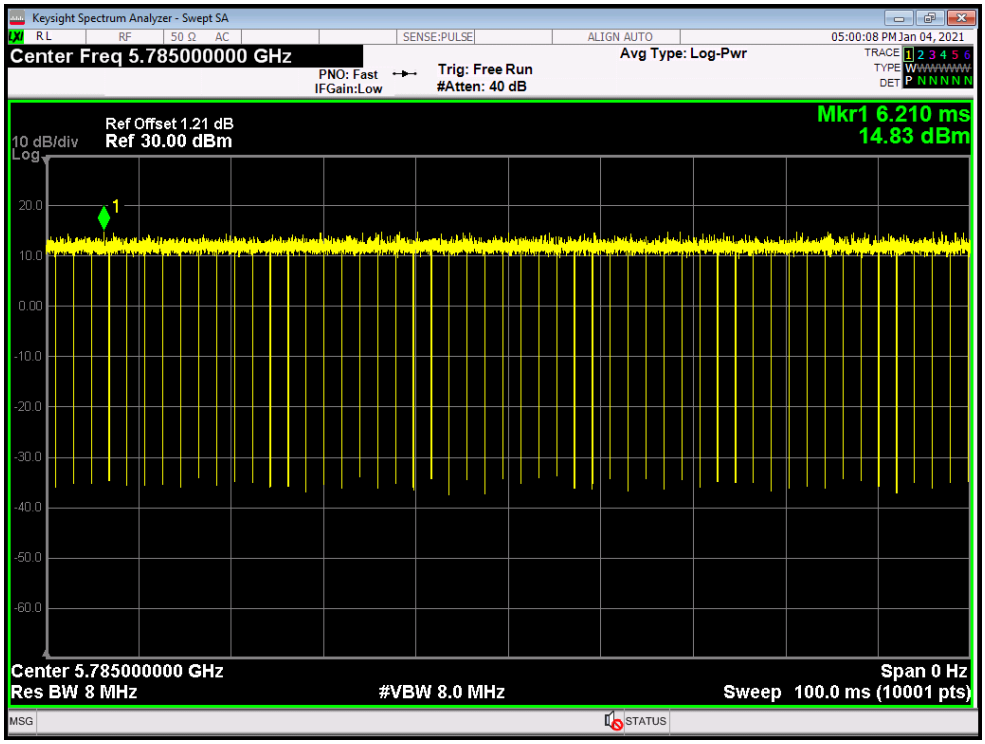
Duty Cycle NVNT ac80 5775MHz Ant1



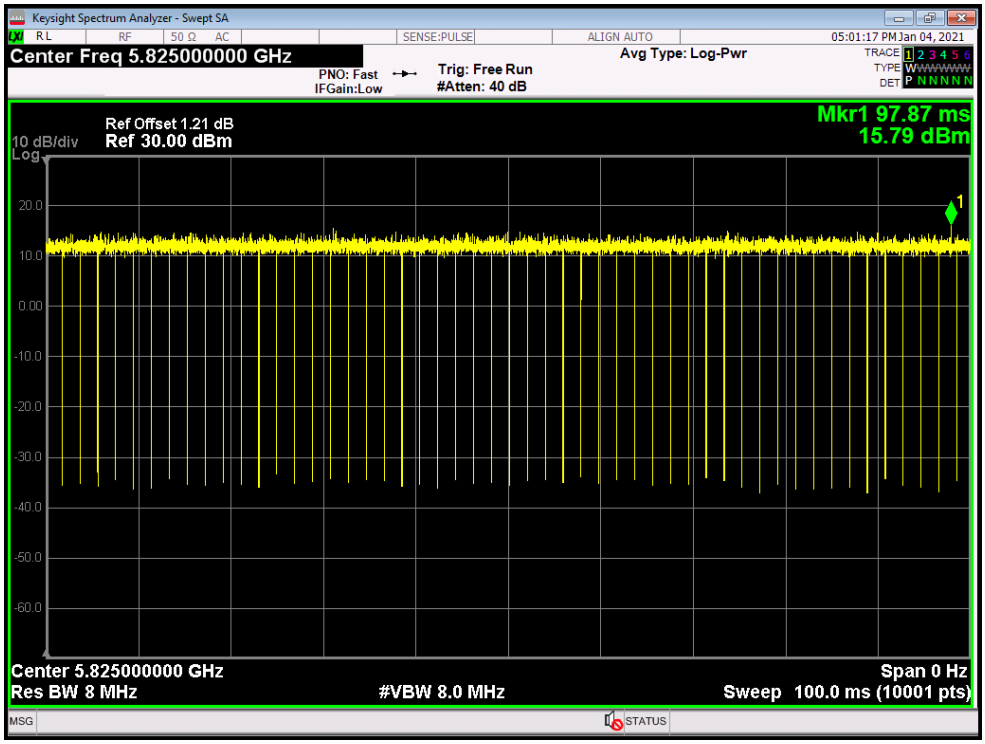
Duty Cycle NVNT n20 5745MHz Ant1



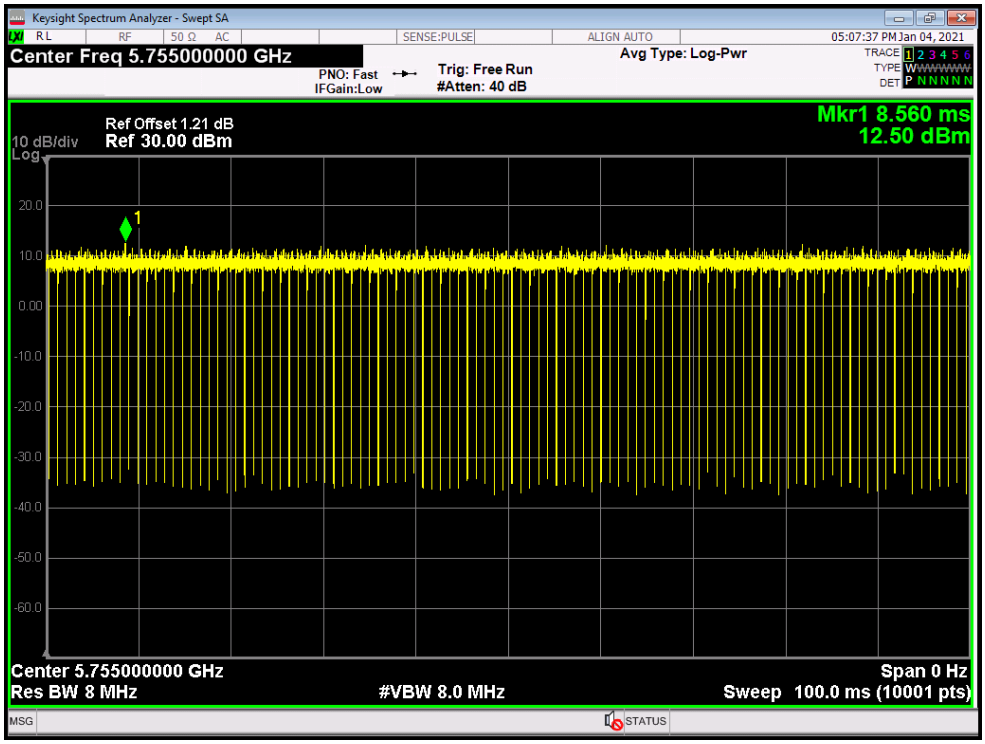
Duty Cycle NVNT n20 5785MHz Ant1


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.785000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
05:00:08 PM Jan 04, 2021
Ref Offset 1.21 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 6.210 ms
14.83 dBm
Center 5.785000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 100.0 ms (10001 pts)

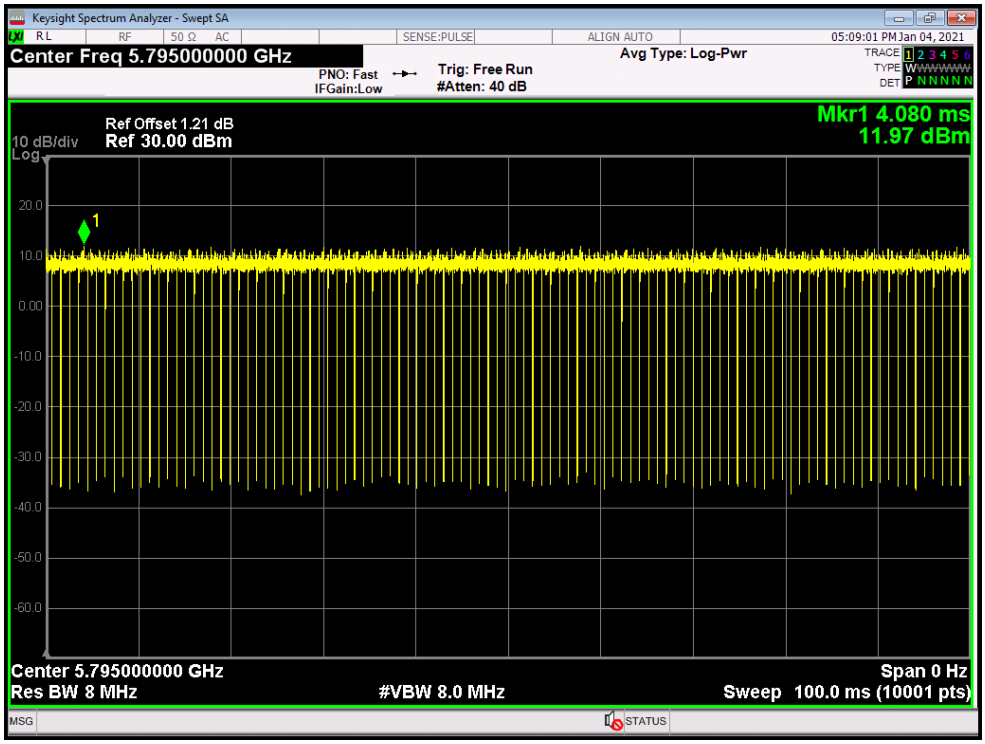
Duty Cycle NVNT n20 5825MHz Ant1



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 40 dB
Avg Type: Log-Pwr
05:09:01 PM Jan 04, 2021
Ref Offset 1.21 dB
10 dB/div
Ref 30.00 dBm
Log
Mkr1 4.080 ms
11.97 dBm
Center 5.795000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 100.0 ms (10001 pts)

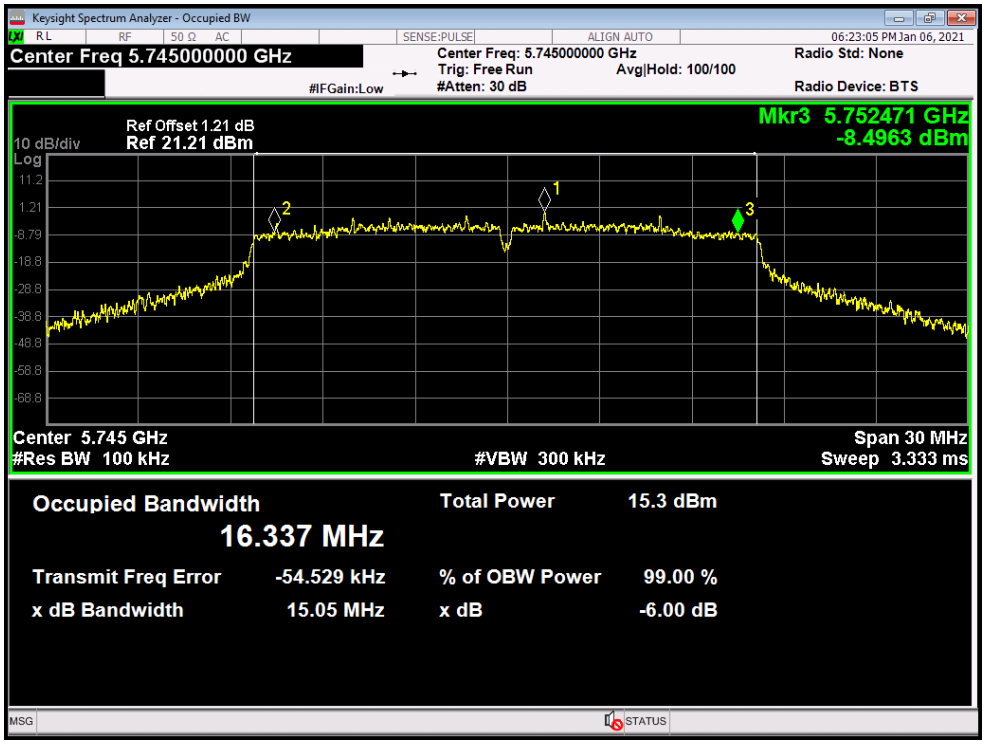
MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	8.67	0	8.67	30	Pass
NVNT	a	5785	Ant1	8.471	0	8.471	30	Pass
NVNT	a	5825	Ant1	8.311	0	8.311	30	Pass
NVNT	ac20	5745	Ant1	8.68	0	8.68	30	Pass
NVNT	ac20	5785	Ant1	8.275	0	8.275	30	Pass
NVNT	ac20	5825	Ant1	8.323	0	8.323	30	Pass
NVNT	ac40	5755	Ant1	8.354	0	8.354	30	Pass
NVNT	ac40	5795	Ant1	8.136	0	8.136	30	Pass
NVNT	ac80	5775	Ant1	8.428	0.15	8.578	30	Pass
NVNT	n20	5745	Ant1	8.561	0	8.561	30	Pass
NVNT	n20	5785	Ant1	8.296	0	8.296	30	Pass
NVNT	n20	5825	Ant1	8.342	0	8.342	30	Pass
NVNT	n40	5755	Ant1	8.356	0	8.356	30	Pass
NVNT	n40	5795	Ant1	8.181	0	8.181	30	Pass

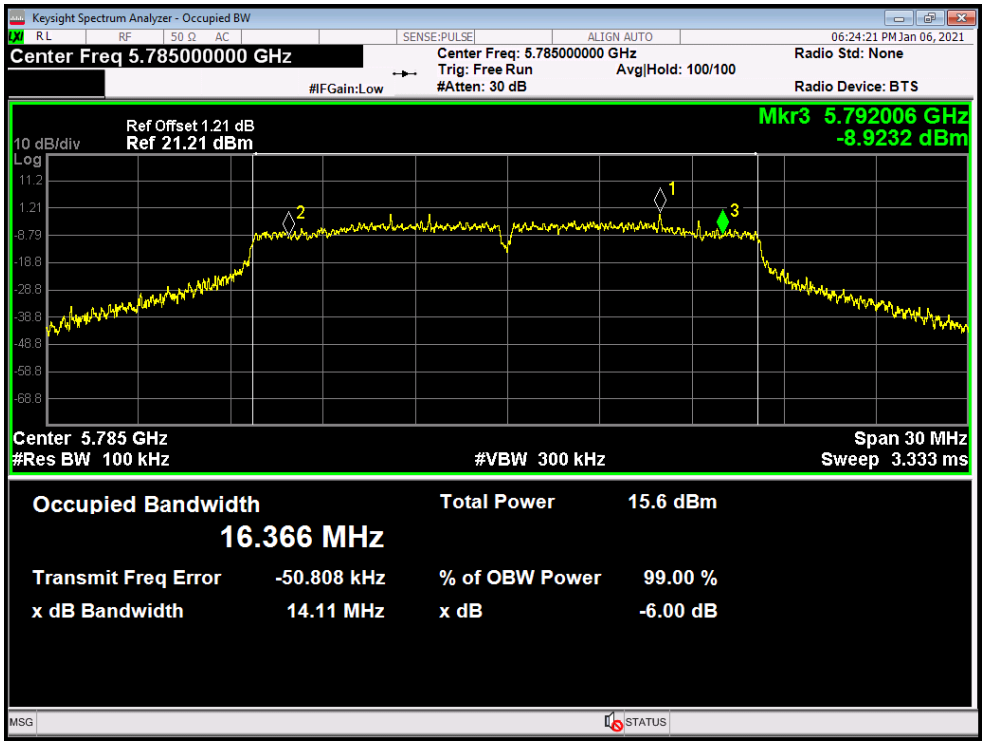
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	15.052	0.5	Pass
NVNT	a	5785	Ant1	14.114	0.5	Pass
NVNT	a	5825	Ant1	13.486	0.5	Pass
NVNT	ac20	5745	Ant1	12.884	0.5	Pass
NVNT	ac20	5785	Ant1	11.957	0.5	Pass
NVNT	ac20	5825	Ant1	15.096	0.5	Pass
NVNT	ac40	5755	Ant1	35.04	0.5	Pass
NVNT	ac40	5795	Ant1	31.322	0.5	Pass
NVNT	ac80	5775	Ant1	75.137	0.5	Pass
NVNT	n20	5745	Ant1	13.231	0.5	Pass
NVNT	n20	5785	Ant1	11.883	0.5	Pass
NVNT	n20	5825	Ant1	13.841	0.5	Pass
NVNT	n40	5755	Ant1	35.089	0.5	Pass
NVNT	n40	5795	Ant1	32.616	0.5	Pass

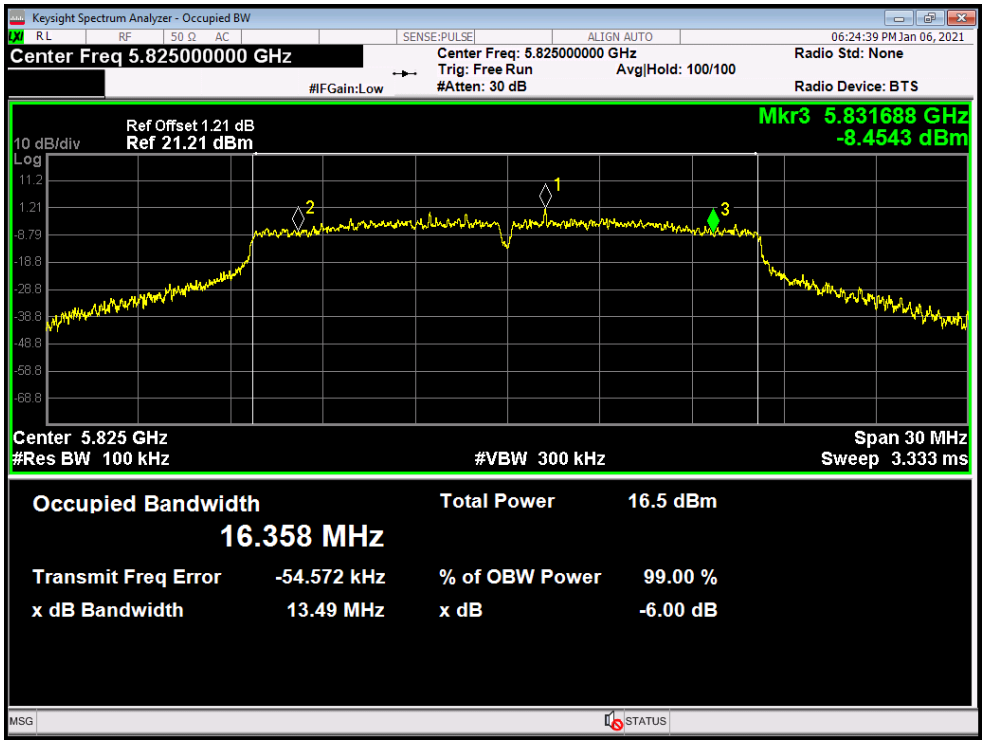
-6dB Bandwidth NVNT a 5745MHz Ant1



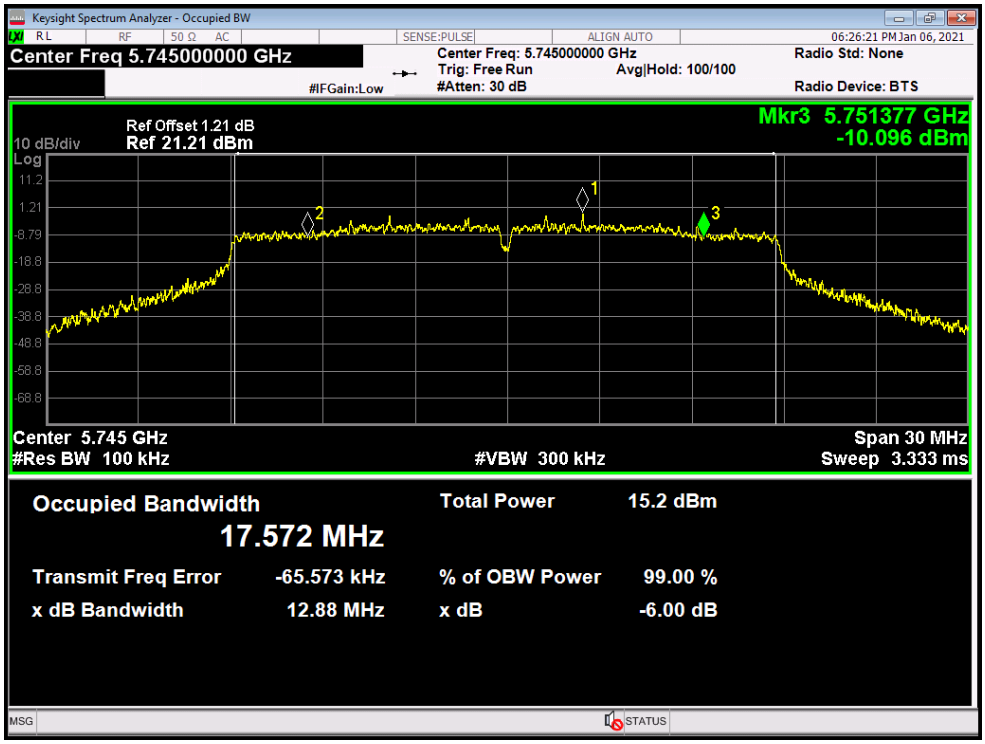
-6dB Bandwidth NVNT a 5785MHz Ant1



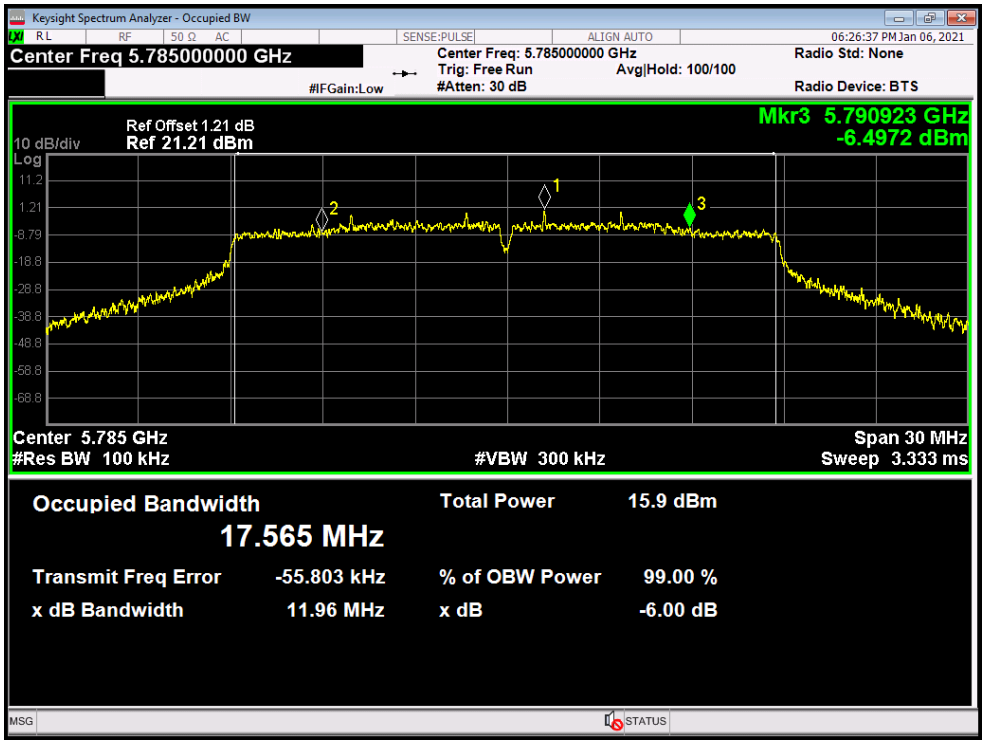
-6dB Bandwidth NVNT a 5825MHz Ant1



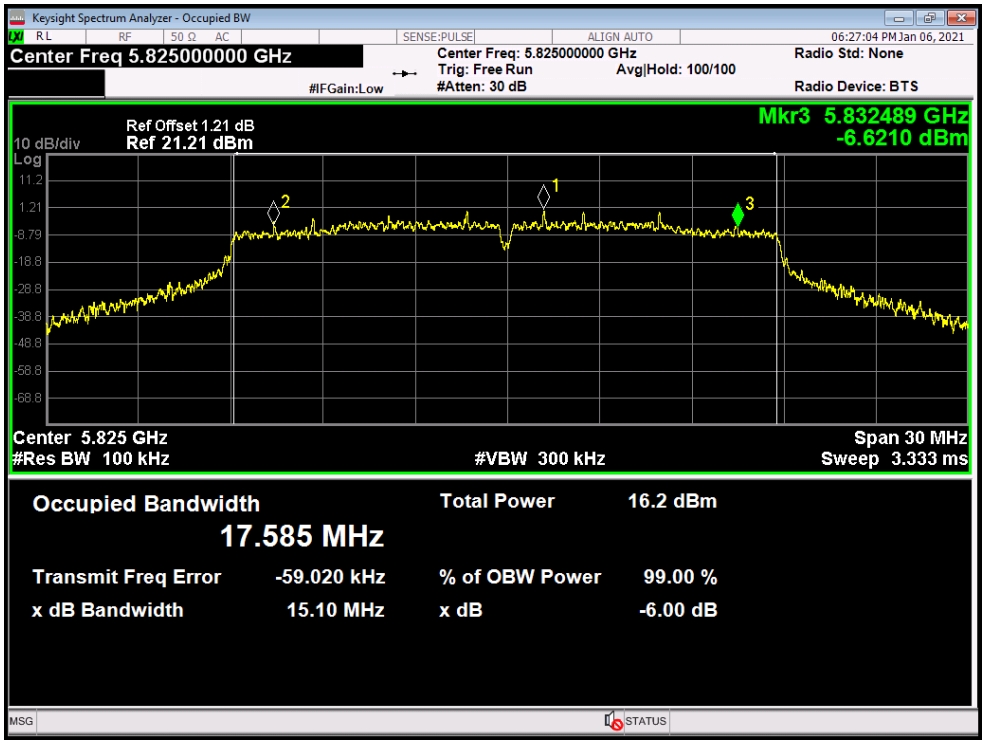
-6dB Bandwidth NVNT ac20 5745MHz Ant1



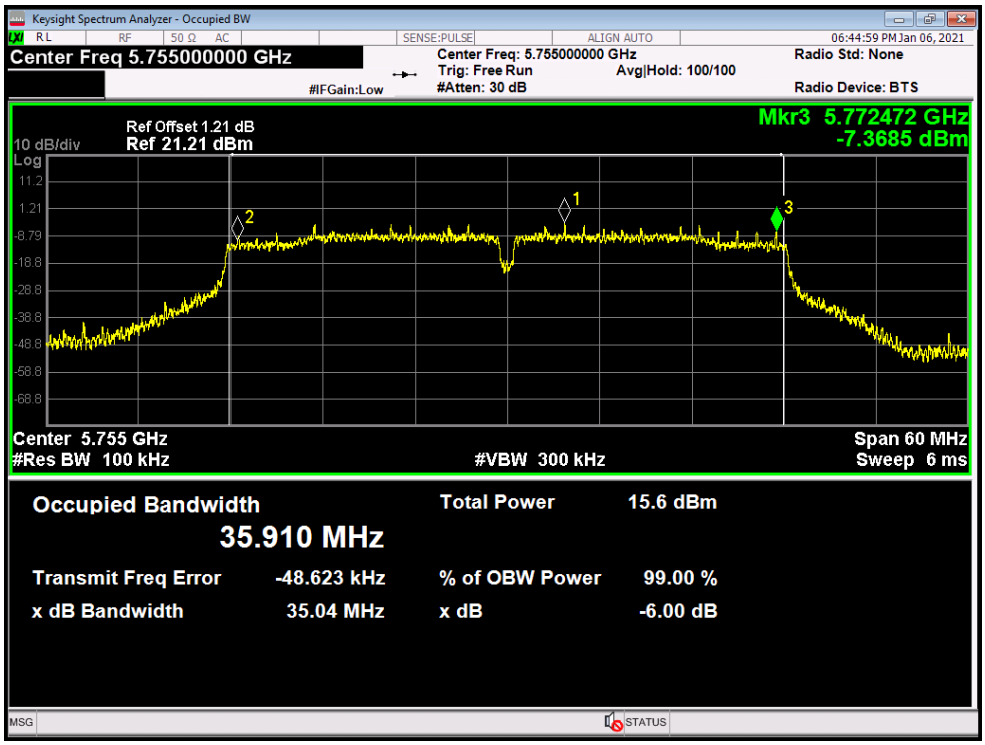
-6dB Bandwidth NVNT ac20 5785MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.785000000 GHz
Center Freq: 5.785000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Radio Std: None
Radio Device: BTS
06:26:37 PM Jan 06, 2021
#IFGain:Low
Ref Offset 1.21 dB
10 dB/div
Ref 21.21 dBm
Mkr3 5.790923 GHz
-6.4972 dBm
Center 5.785 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30 MHz
Sweep 3.333 ms
Occupied Bandwidth
17.565 MHz
Total Power 15.9 dBm
Transmit Freq Error -55.803 kHz
% of OBW Power 99.00 %
x dB Bandwidth 11.96 MHz
x dB -6.00 dB

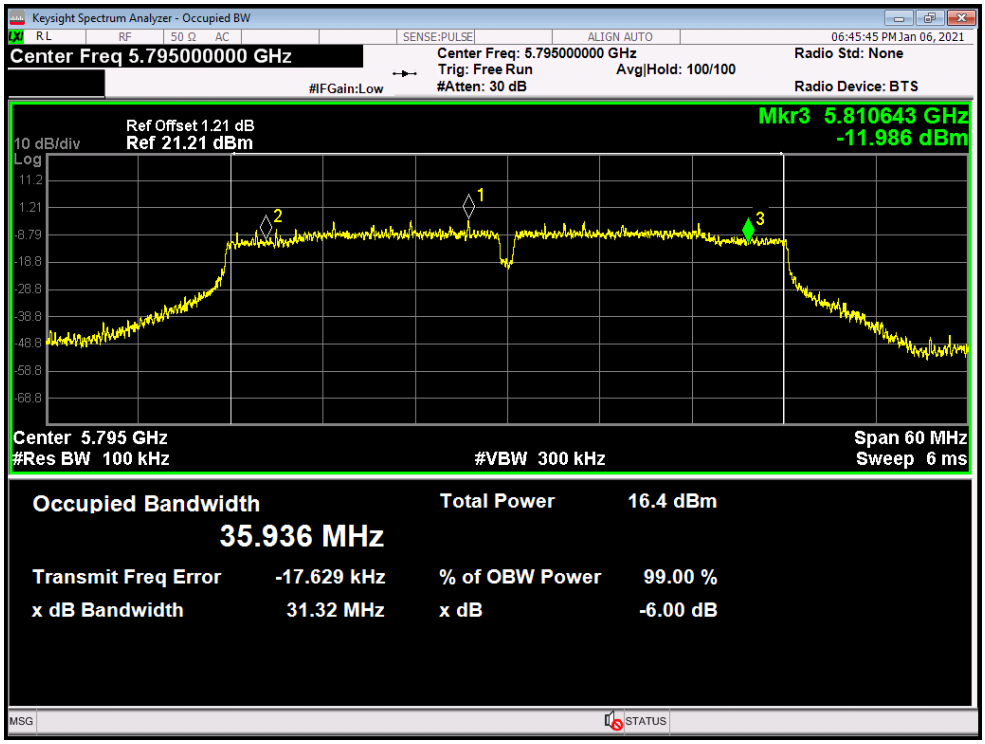
-6dB Bandwidth NVNT ac20 5825MHz Ant1



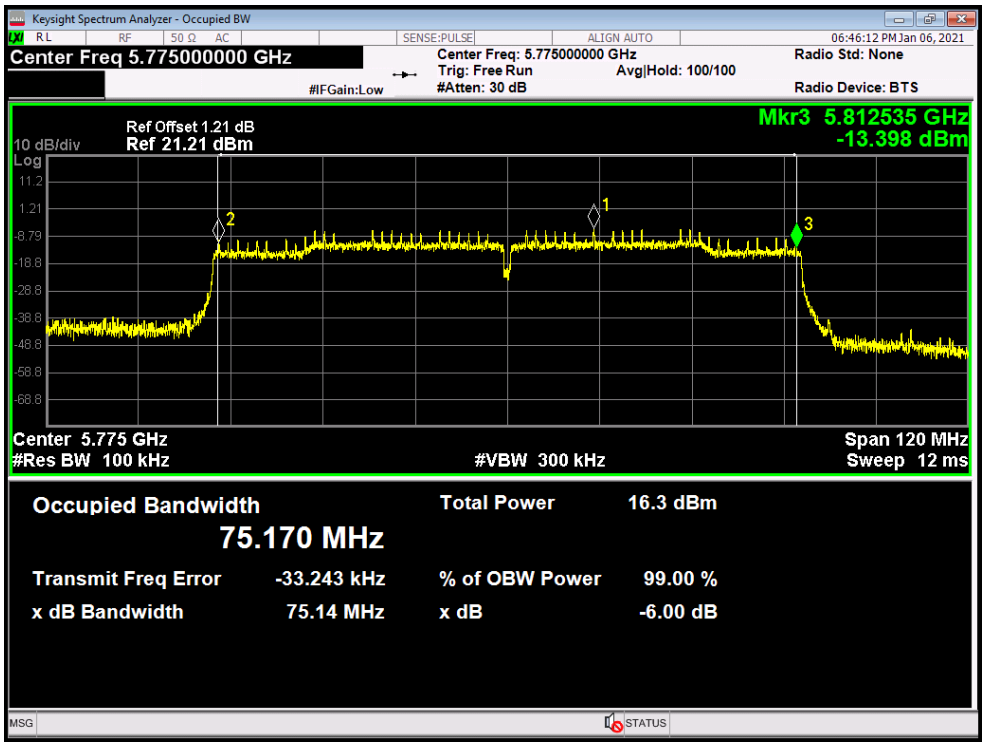
-6dB Bandwidth NVNT ac40 5755MHz Ant1



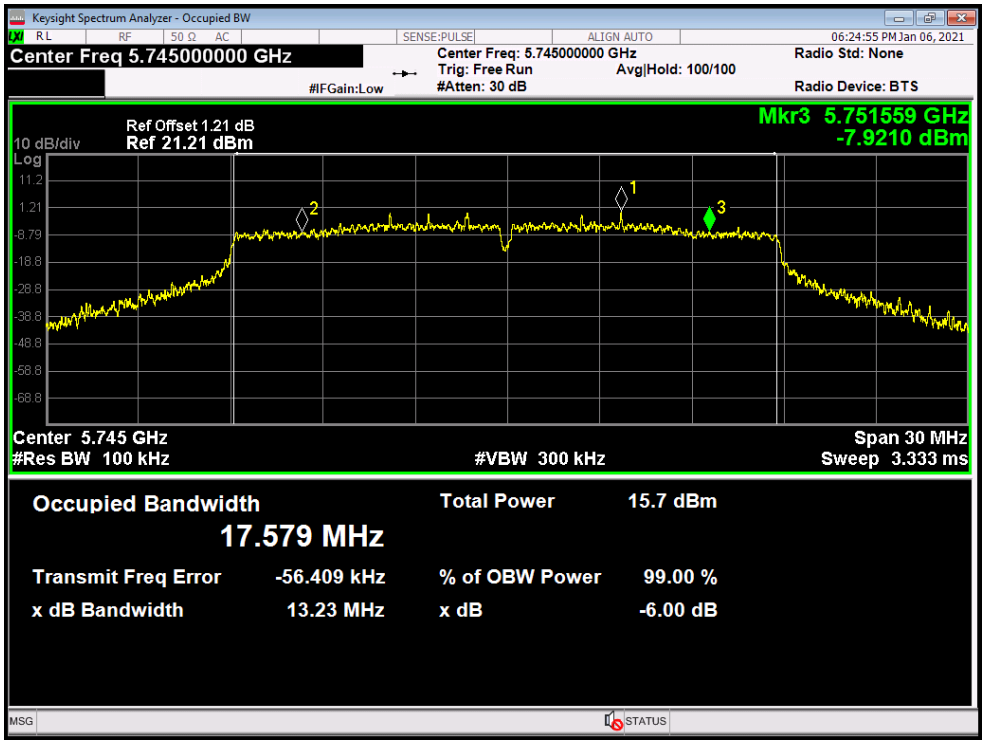
-6dB Bandwidth NVNT ac40 5795MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.795000000 GHz
Center Freq: 5.795000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Radio Std: None
Radio Device: BTS
06:45:45 PM Jan 06, 2021
#IFGain:Low
Ref Offset 1.21 dB
10 dB/div
Ref 21.21 dBm
Mkr3 5.810643 GHz
-11.986 dBm
Center 5.795 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 60 MHz
Sweep 6 ms
Occupied Bandwidth
35.936 MHz
Total Power 16.4 dBm
Transmit Freq Error -17.629 kHz
% of OBW Power 99.00 %
x dB Bandwidth 31.32 MHz
x dB -6.00 dB

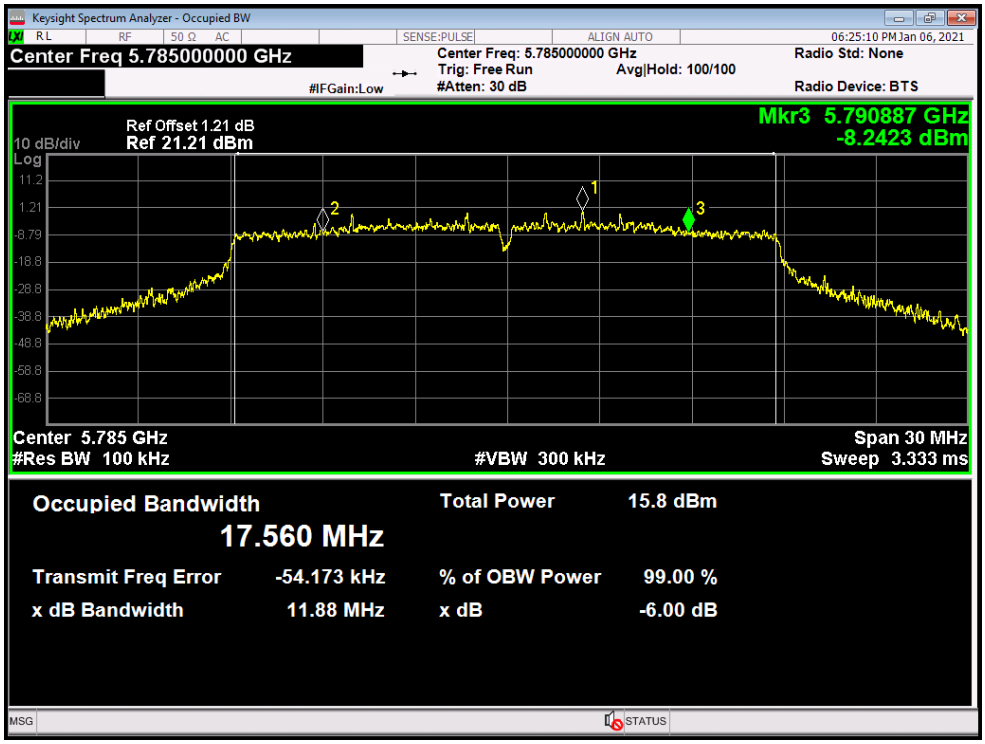
-6dB Bandwidth NVNT ac80 5775MHz Ant1



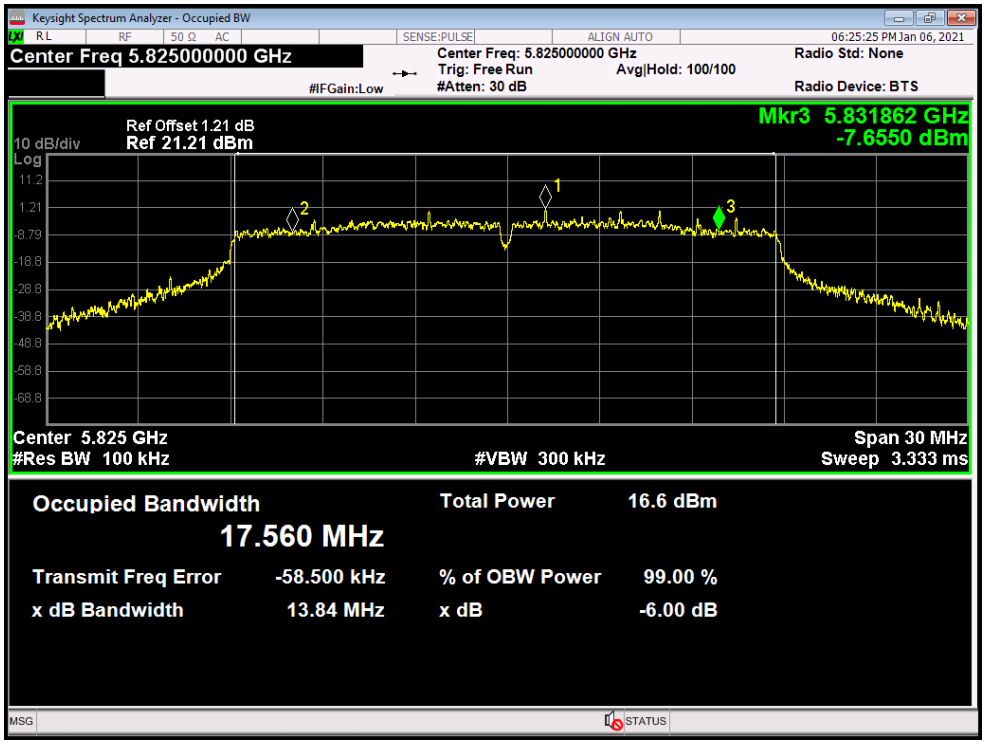
-6dB Bandwidth NVNT n20 5745MHz Ant1



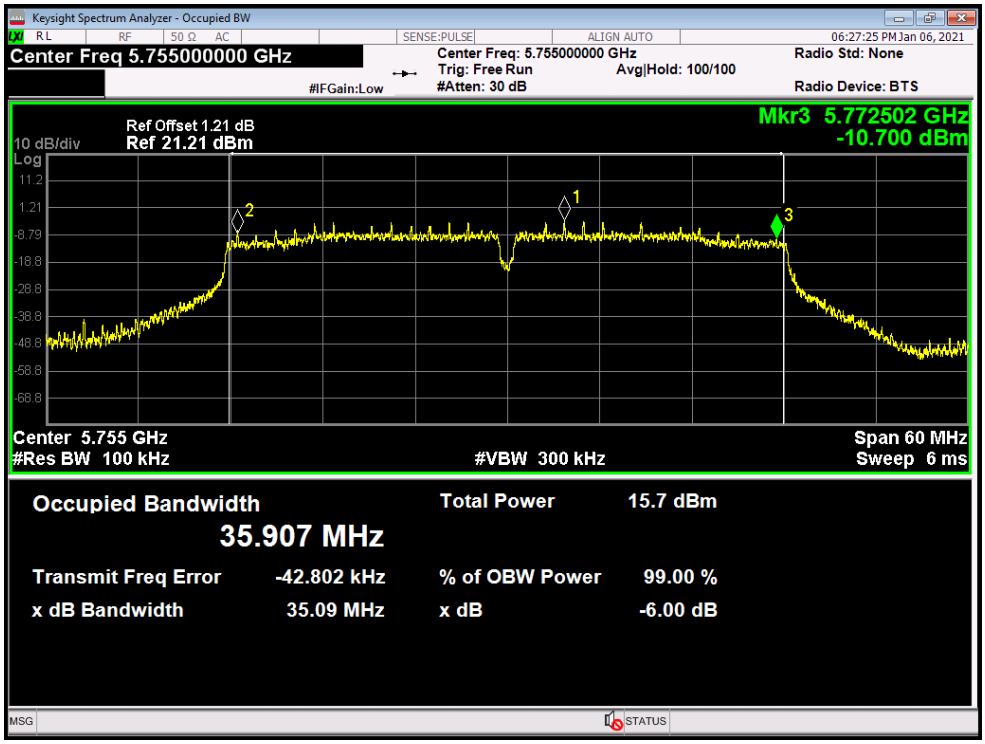
-6dB Bandwidth NVNT n20 5785MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.785000000 GHz
Center Freq: 5.785000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Radio Std: None
Radio Device: BTS
06:25:10 PM Jan 06, 2021
#IFGain:Low
Ref Offset 1.21 dB
10 dB/div
Ref 21.21 dBm
Mkr3 5.790887 GHz
-8.2423 dBm
Center 5.785 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 30 MHz
Sweep 3.333 ms
Occupied Bandwidth
17.560 MHz
Total Power 15.8 dBm
Transmit Freq Error -54.173 kHz
% of OBW Power 99.00 %
x dB Bandwidth 11.88 MHz
x dB -6.00 dB

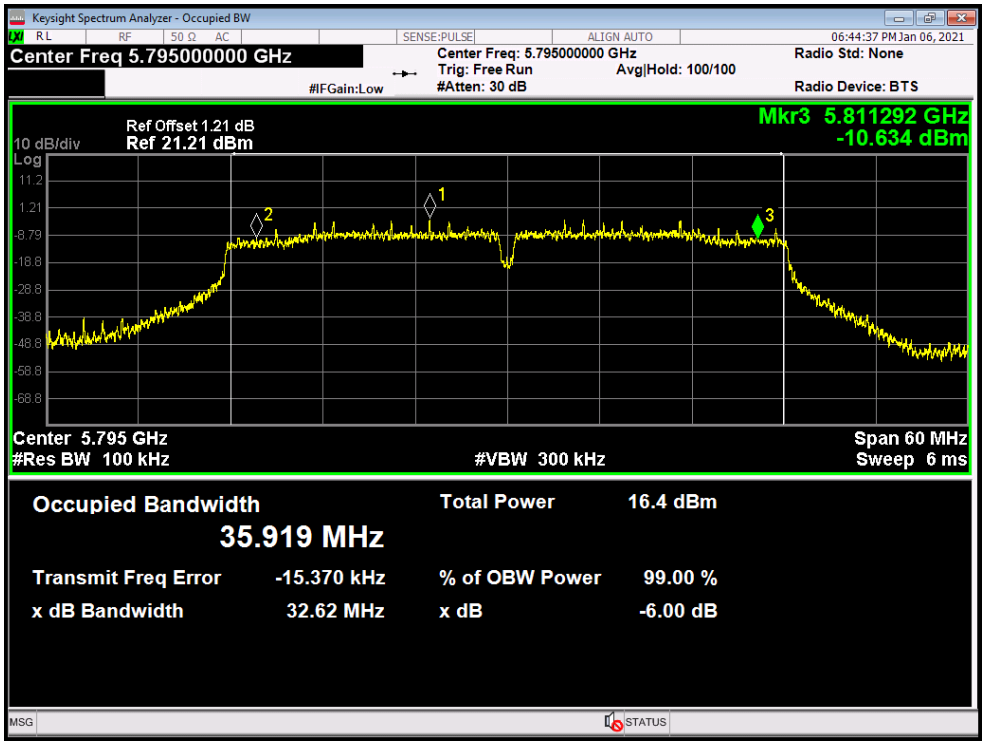
-6dB Bandwidth NVNT n20 5825MHz Ant1



-6dB Bandwidth NVNT n40 5755MHz Ant1



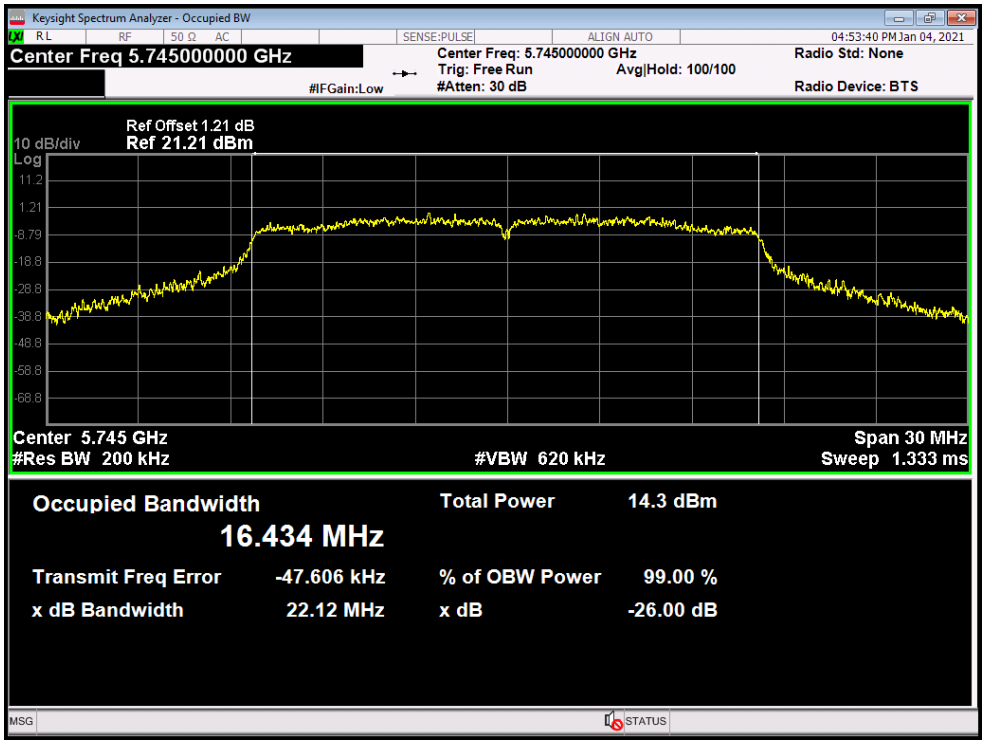
-6dB Bandwidth NVNT n40 5795MHz Ant1



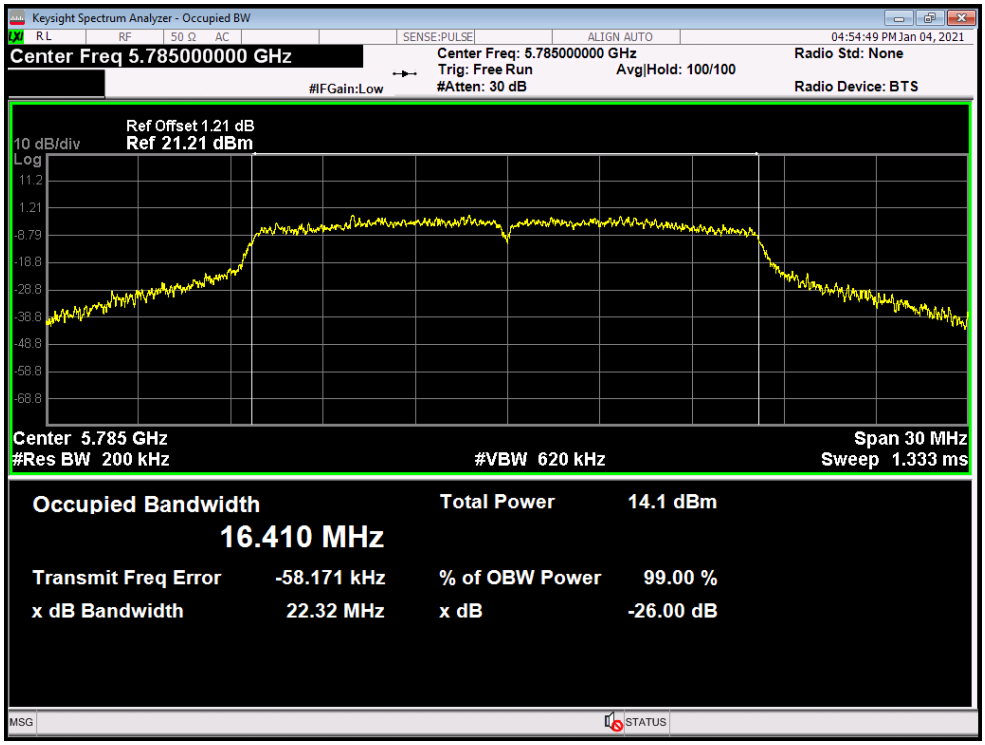
OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.434
NVNT	a	5785	Ant1	16.41
NVNT	a	5825	Ant1	16.406
NVNT	ac20	5745	Ant1	17.603
NVNT	ac20	5785	Ant1	17.609
NVNT	ac20	5825	Ant1	17.632
NVNT	ac40	5755	Ant1	36.018
NVNT	ac40	5795	Ant1	36.036
NVNT	ac80	5775	Ant1	75.31
NVNT	n20	5745	Ant1	17.619
NVNT	n20	5785	Ant1	17.617
NVNT	n20	5825	Ant1	17.602
NVNT	n40	5755	Ant1	36.066
NVNT	n40	5795	Ant1	36.037

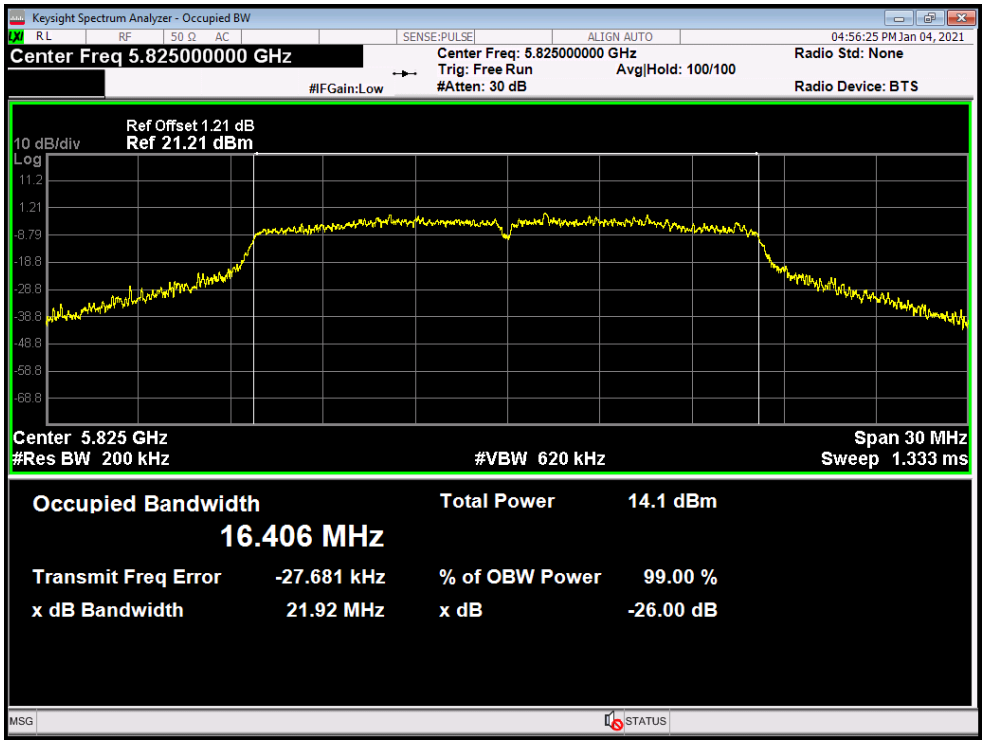
OBW NVNT a 5745MHz Ant1



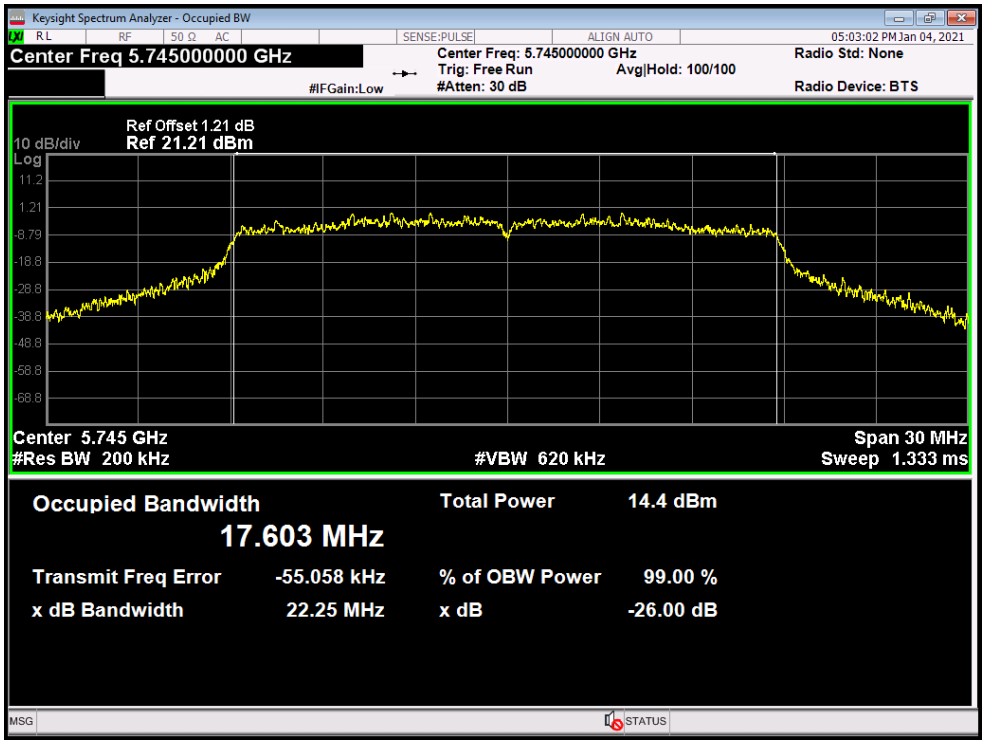
OBW NVNT a 5785MHz Ant1



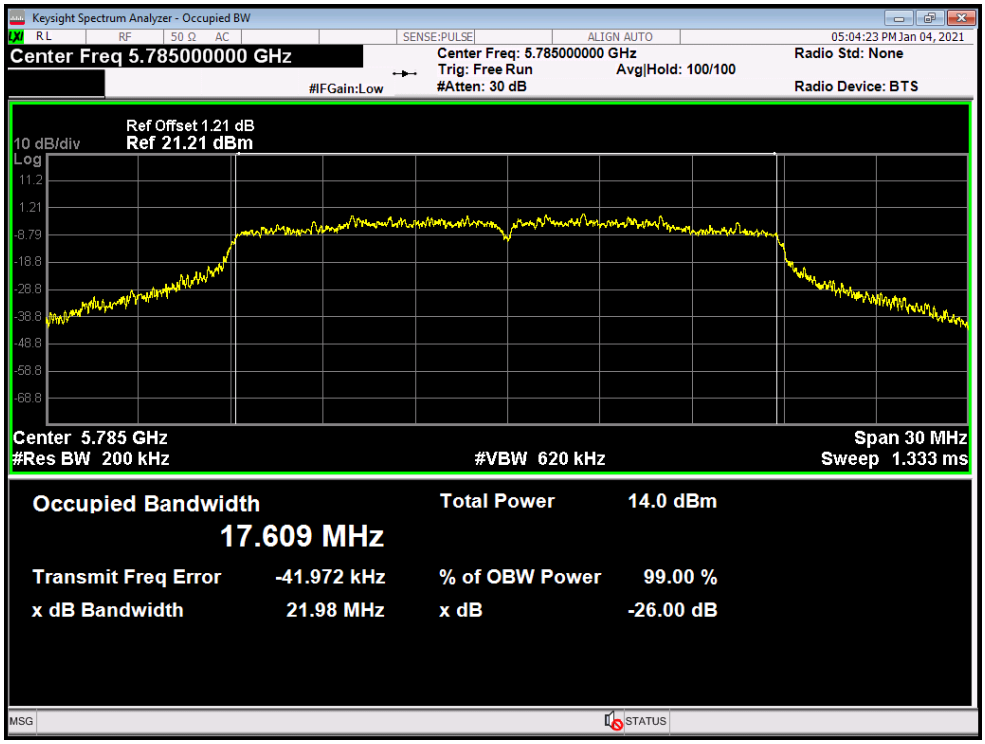
OBW NVNT a 5825MHz Ant1



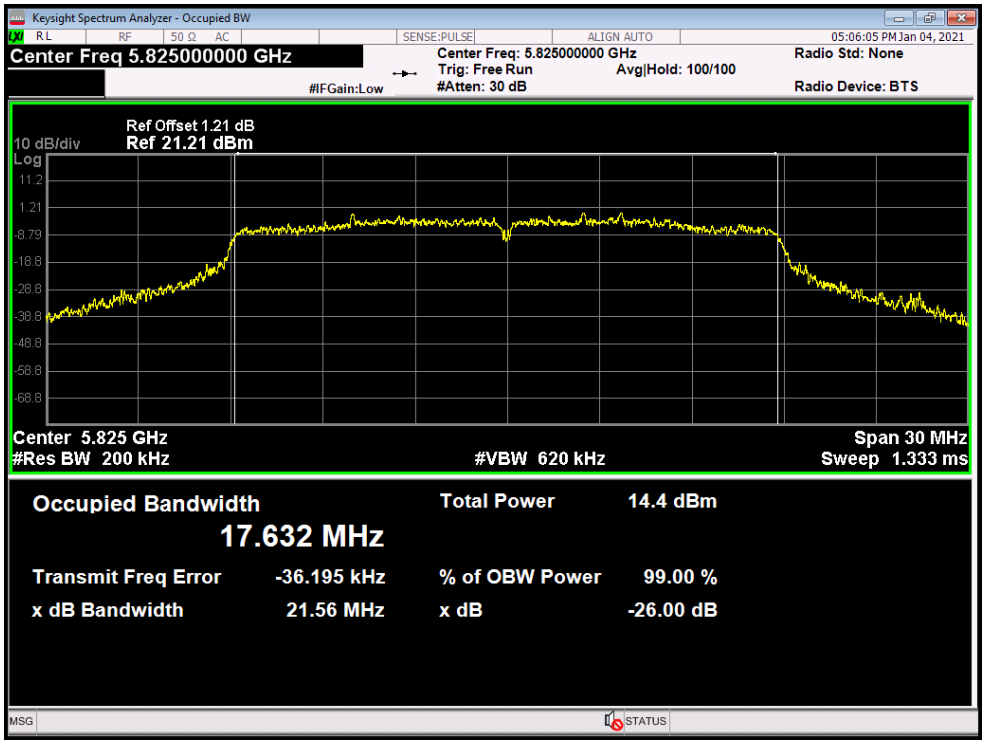
OBW NVNT ac20 5745MHz Ant1



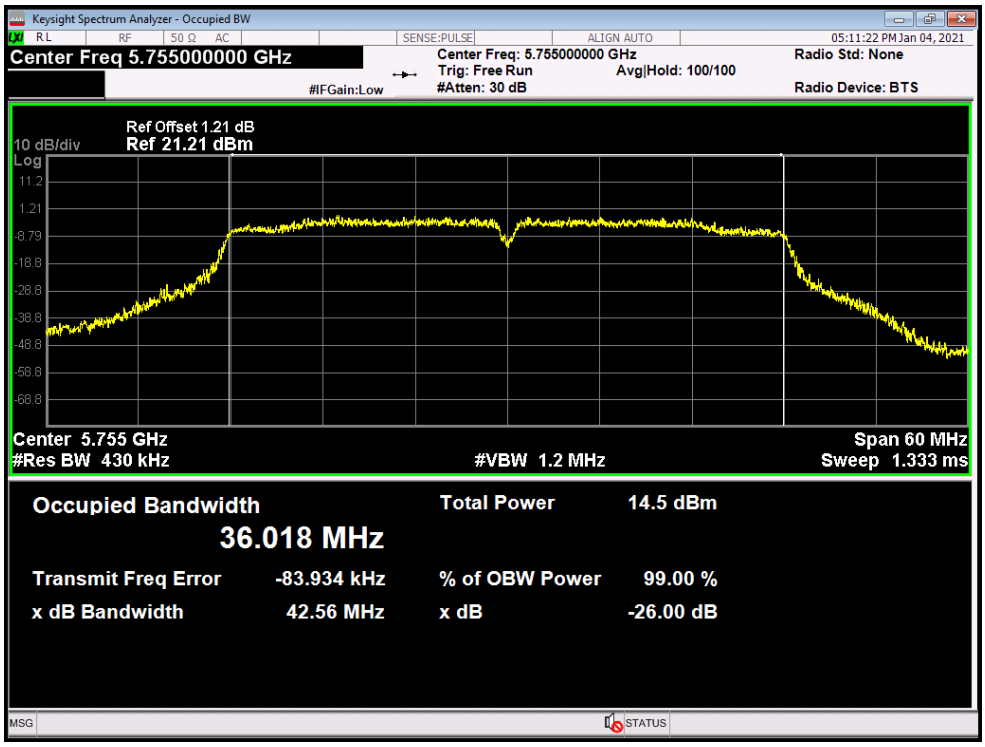
OBW NVNT ac20 5785MHz Ant1



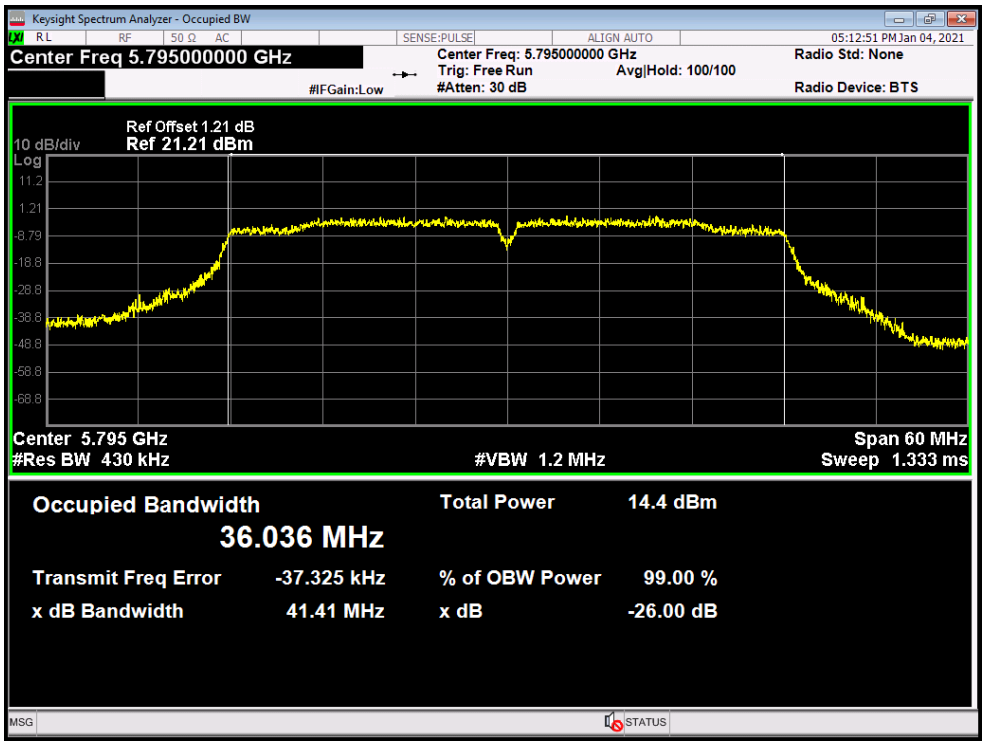
OBW NVNT ac20 5825MHz Ant1



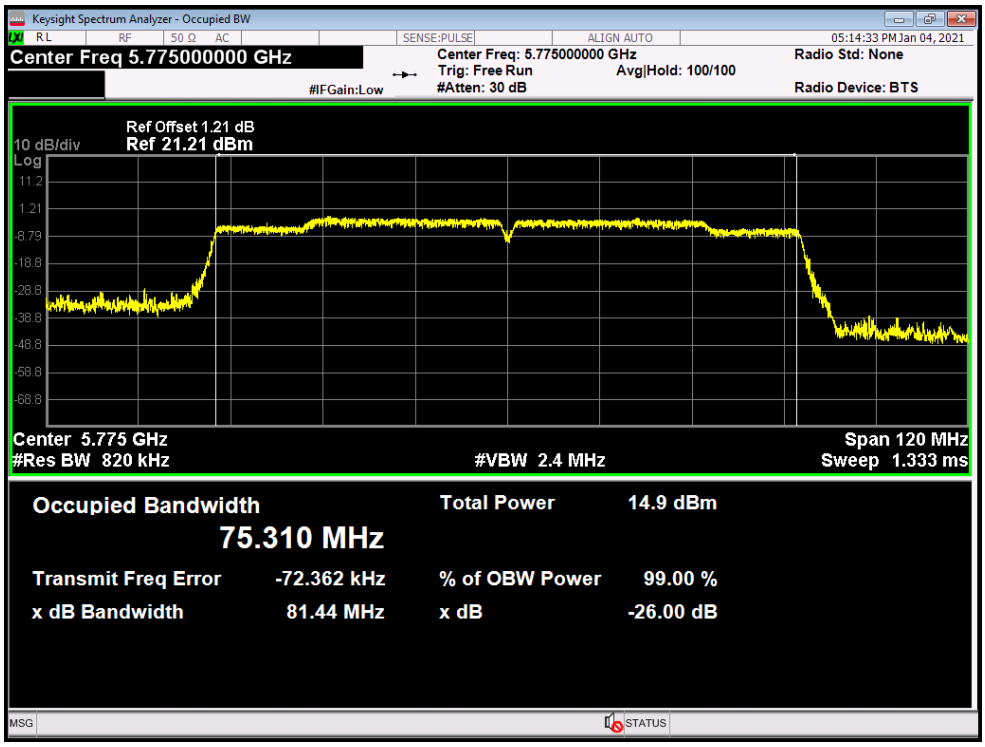
OBW NVNT ac40 5755MHz Ant1



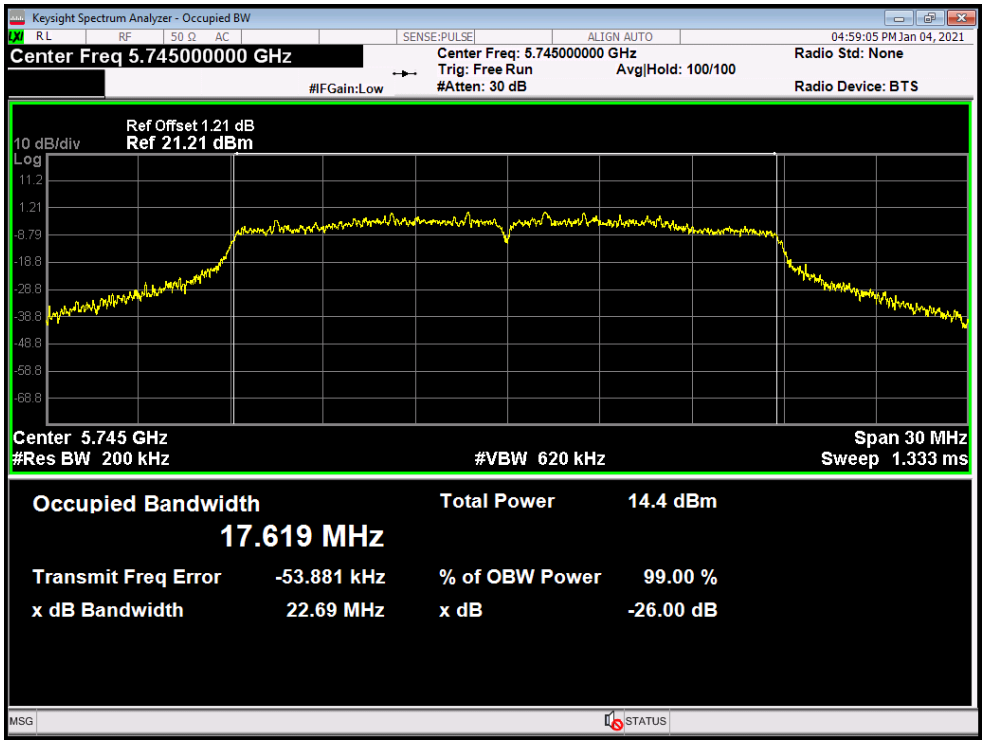
OBW NVNT ac40 5795MHz Ant1



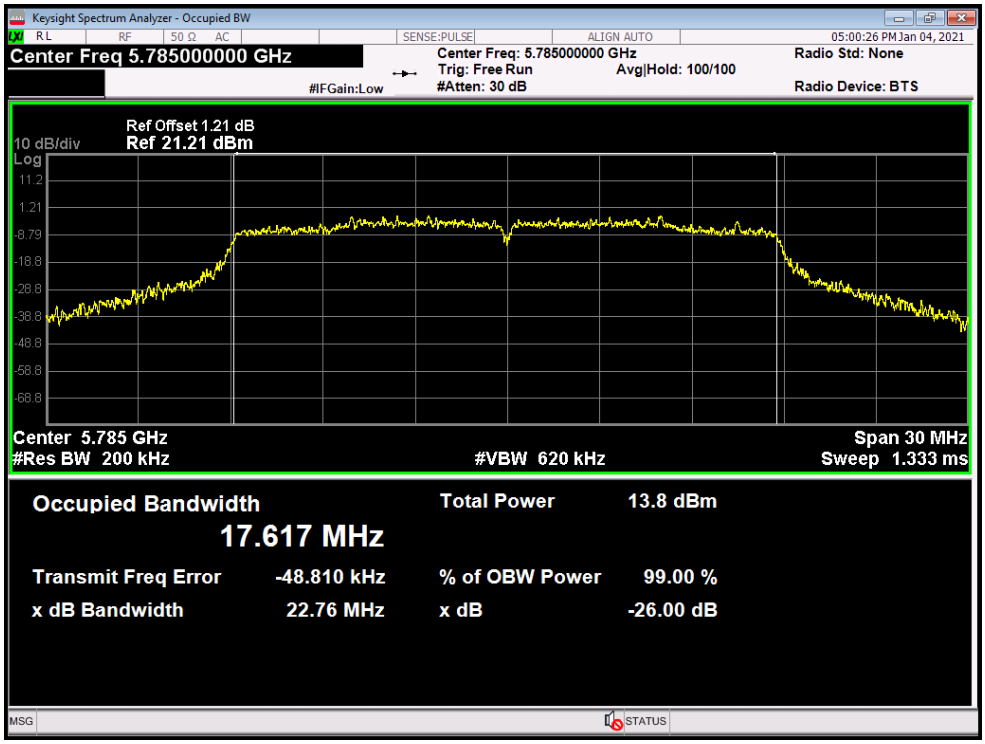
OBW NVNT ac80 5775MHz Ant1



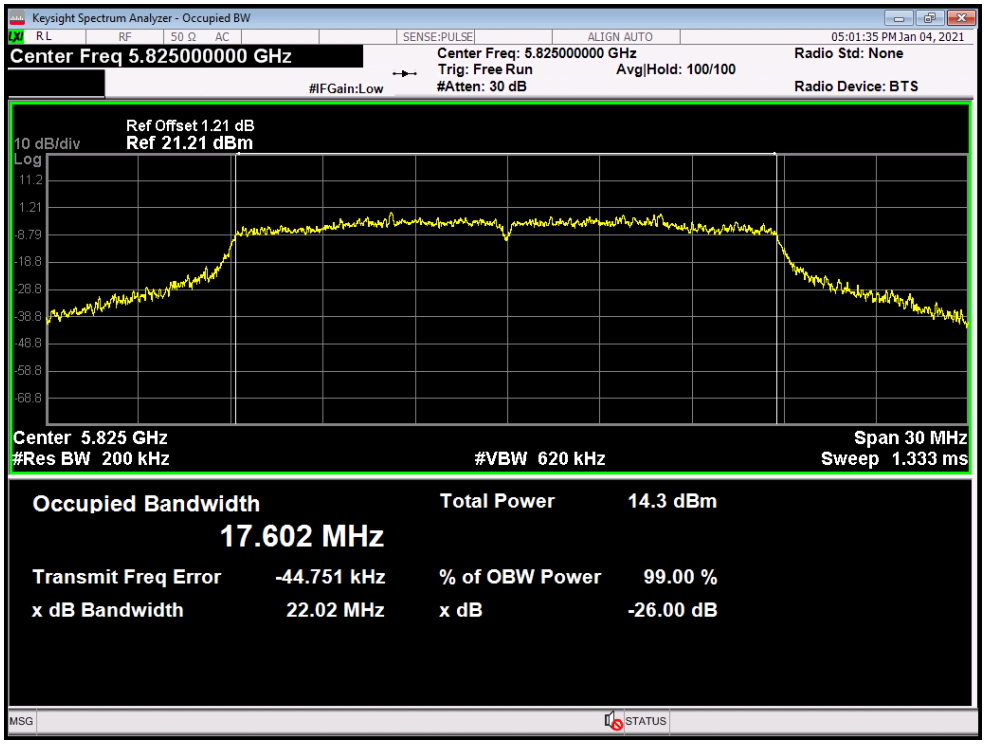
OBW NVNT n20 5745MHz Ant1



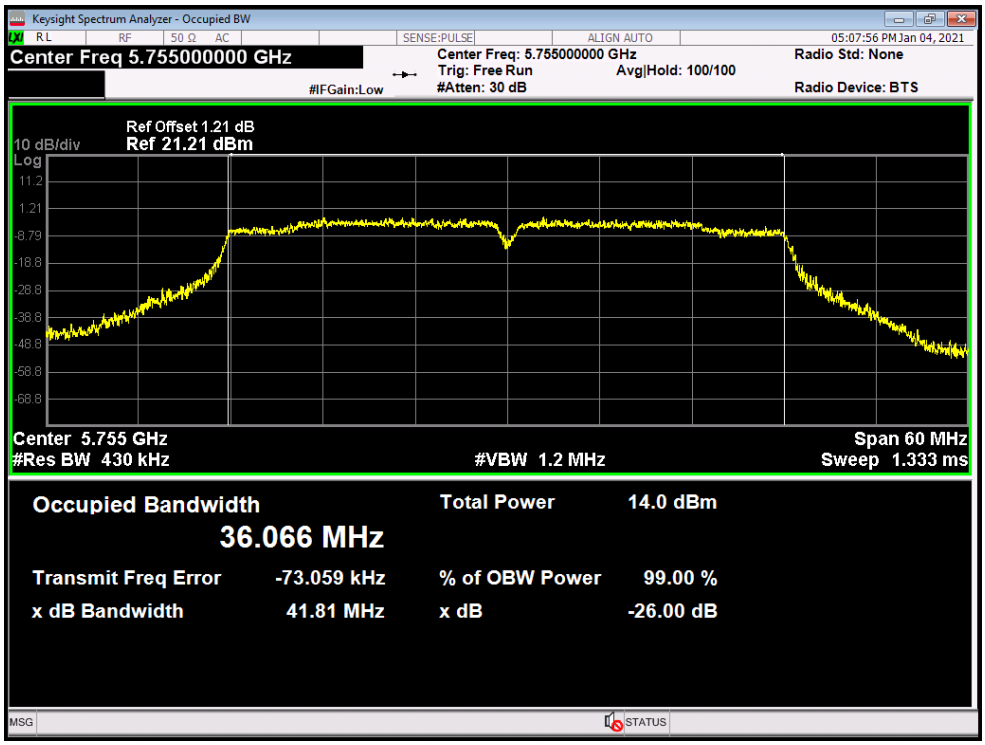
OBW NVNT n20 5785MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
RL
RF
50 Ω AC
SENSE:PULSE
ALIGN AUTO
05:00:26 PM Jan 04, 2021
Center Freq 5.785000000 GHz
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 1.21 dB
10 dB/div
Ref 21.21 dBm
Log
11.2
1.21
-8.79
-18.8
-28.8
-38.8
-48.8
-58.8
-68.8
Center 5.785 GHz
#Res BW 200 kHz
#VBW 620 kHz
Span 30 MHz
Sweep 1.333 ms
Occupied Bandwidth
17.617 MHz
Total Power 13.8 dBm
Transmit Freq Error -48.810 kHz
% of OBW Power 99.00 %
x dB Bandwidth 22.76 MHz
x dB -26.00 dB
MSG
STATUS

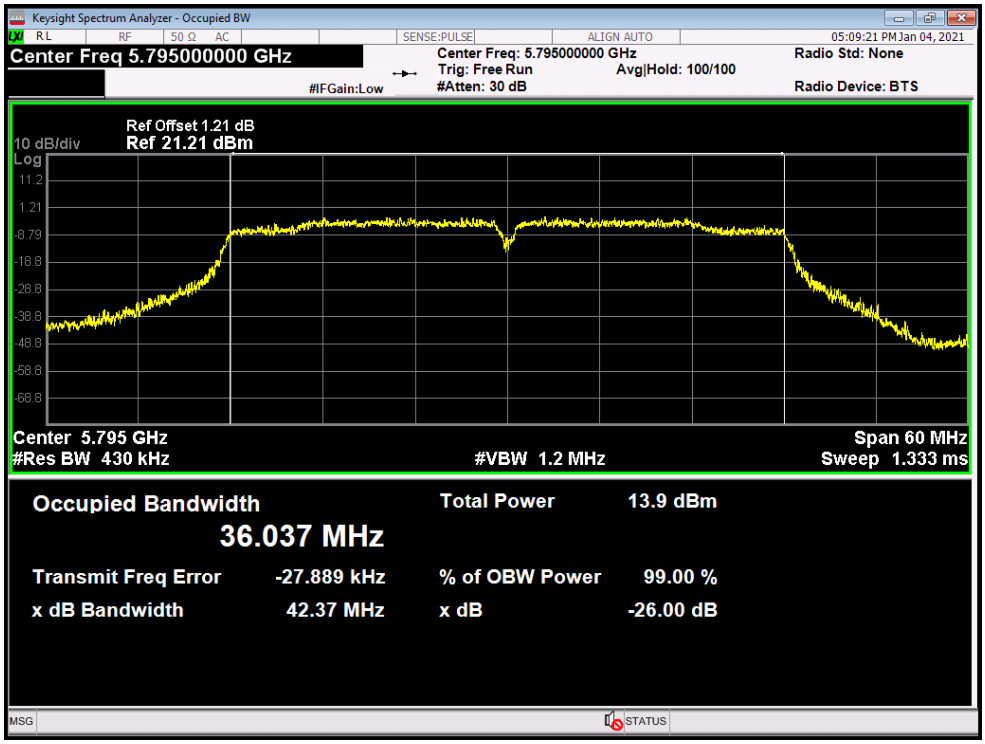
OBW NVNT n20 5825MHz Ant1



OBW NVNT n40 5755MHz Ant1



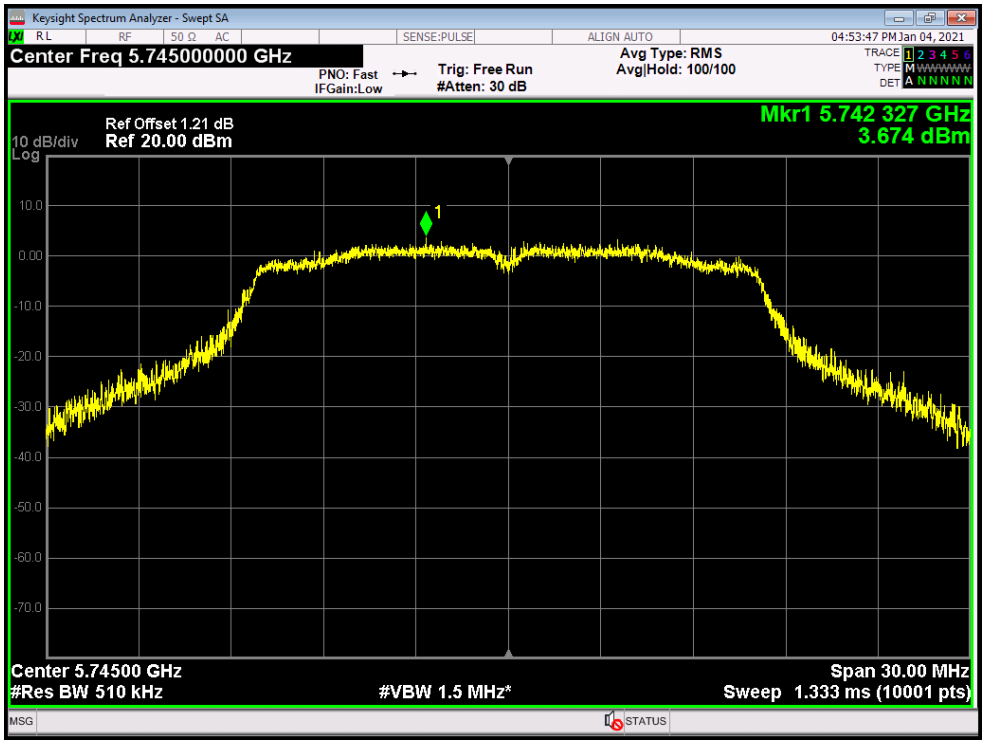
OBW NVNT n40 5795MHz Ant1


Keysight Spectrum Analyzer - Occupied BW
Center Freq 5.795000000 GHz
Center Freq: 5.795000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Radio Std: None
Radio Device: BTS
05:09:21 PM Jan 04, 2021
#IFGain:Low
Ref Offset 1.21 dB
10 dB/div
Ref 21.21 dBm
Log
Center 5.795 GHz
#Res BW 430 kHz
#VBW 1.2 MHz
Span 60 MHz
Sweep 1.333 ms
Occupied Bandwidth
36.037 MHz
Total Power 13.9 dBm
Transmit Freq Error -27.889 kHz
% of OBW Power 99.00 %
x dB Bandwidth 42.37 MHz
x dB -26.00 dB
MSG
STATUS

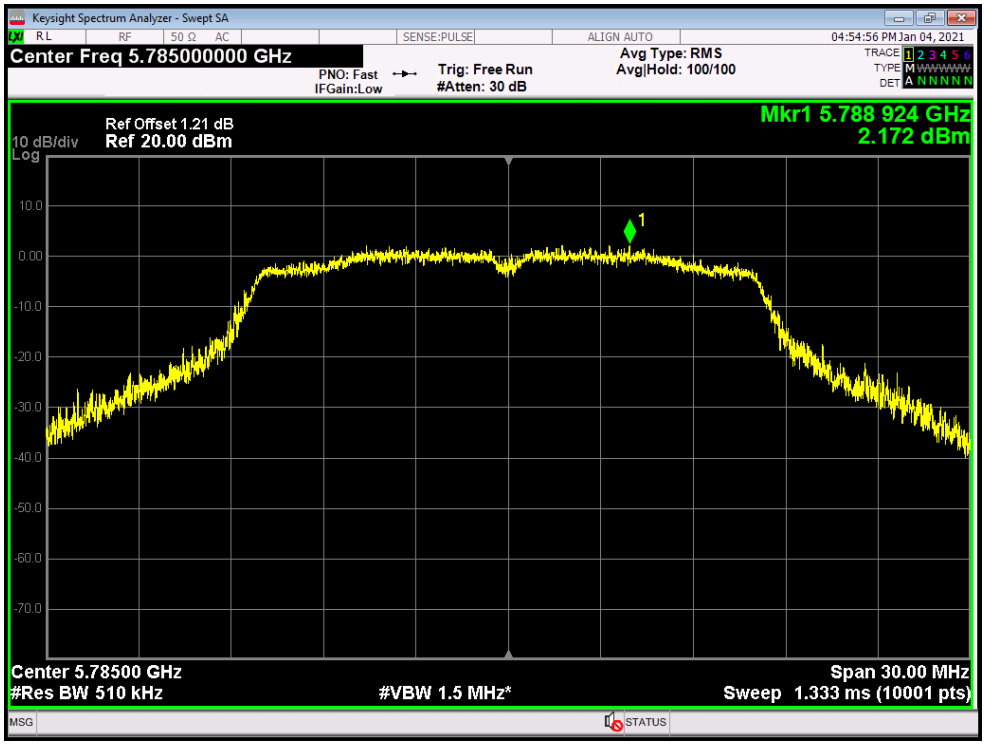
MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	3.674	30	Pass
NVNT	a	5785	Ant1	2.172	30	Pass
NVNT	a	5825	Ant1	2.677	30	Pass
NVNT	ac20	5745	Ant1	2.603	30	Pass
NVNT	ac20	5785	Ant1	1.749	30	Pass
NVNT	ac20	5825	Ant1	2.521	30	Pass
NVNT	ac40	5755	Ant1	-0.52	30	Pass
NVNT	ac40	5795	Ant1	-0.686	30	Pass
NVNT	ac80	5775	Ant1	-10.586	30	Pass
NVNT	n20	5745	Ant1	2.584	30	Pass
NVNT	n20	5785	Ant1	2.092	30	Pass
NVNT	n20	5825	Ant1	2.401	30	Pass
NVNT	n40	5755	Ant1	-1.101	30	Pass
NVNT	n40	5795	Ant1	-1.569	30	Pass

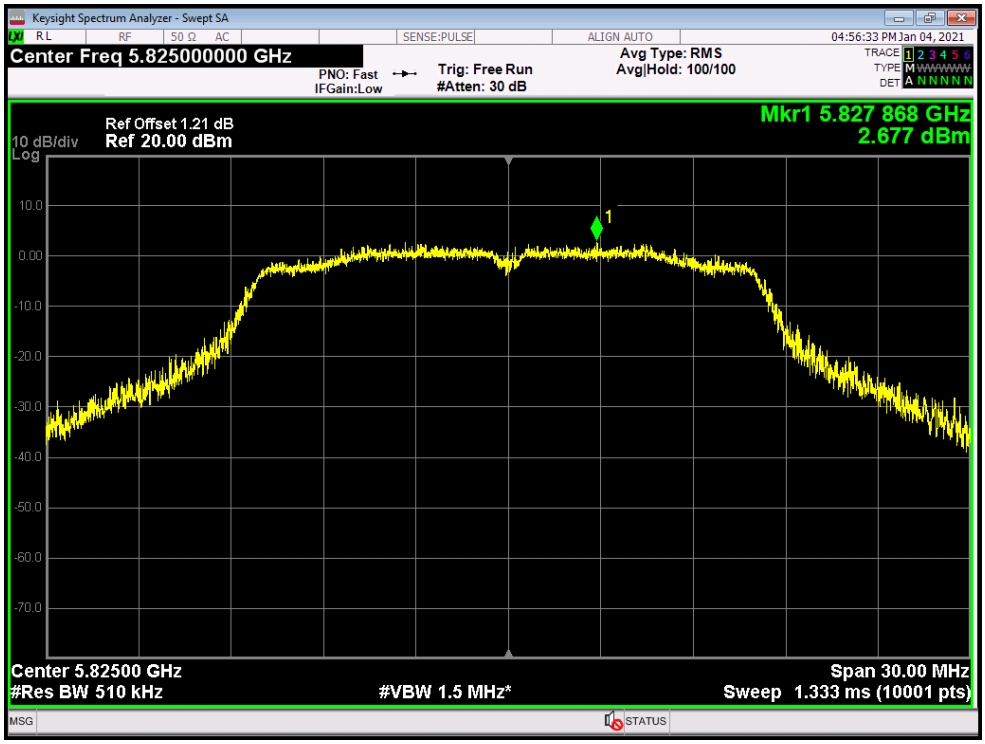
PSD NVNT a 5745MHz Ant1



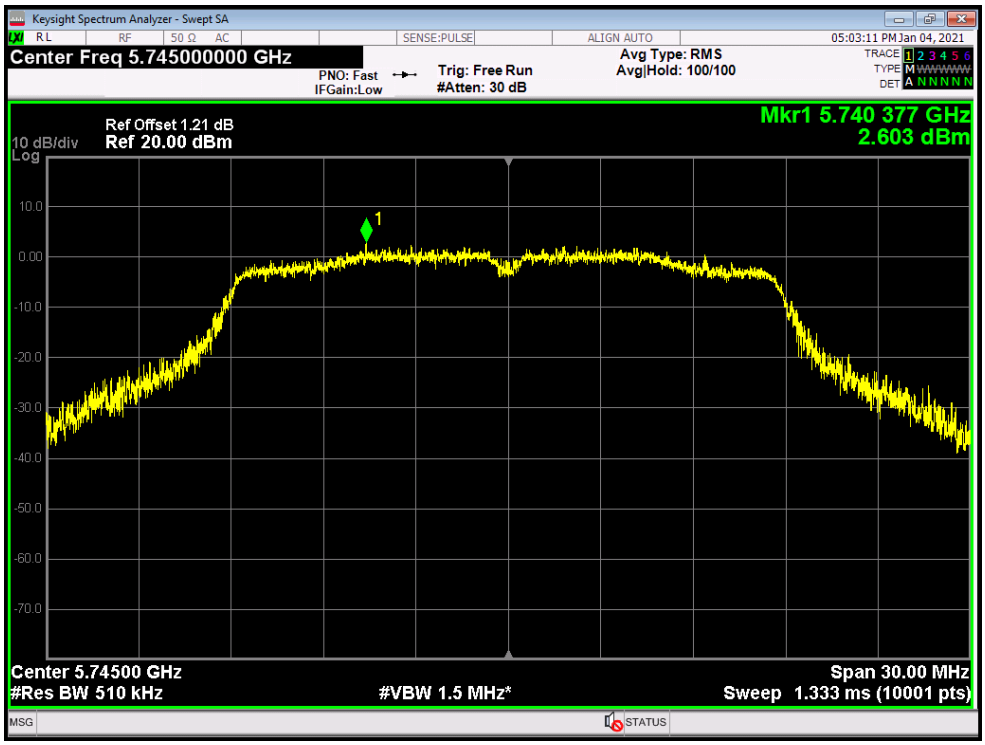
PSD NVNT a 5785MHz Ant1



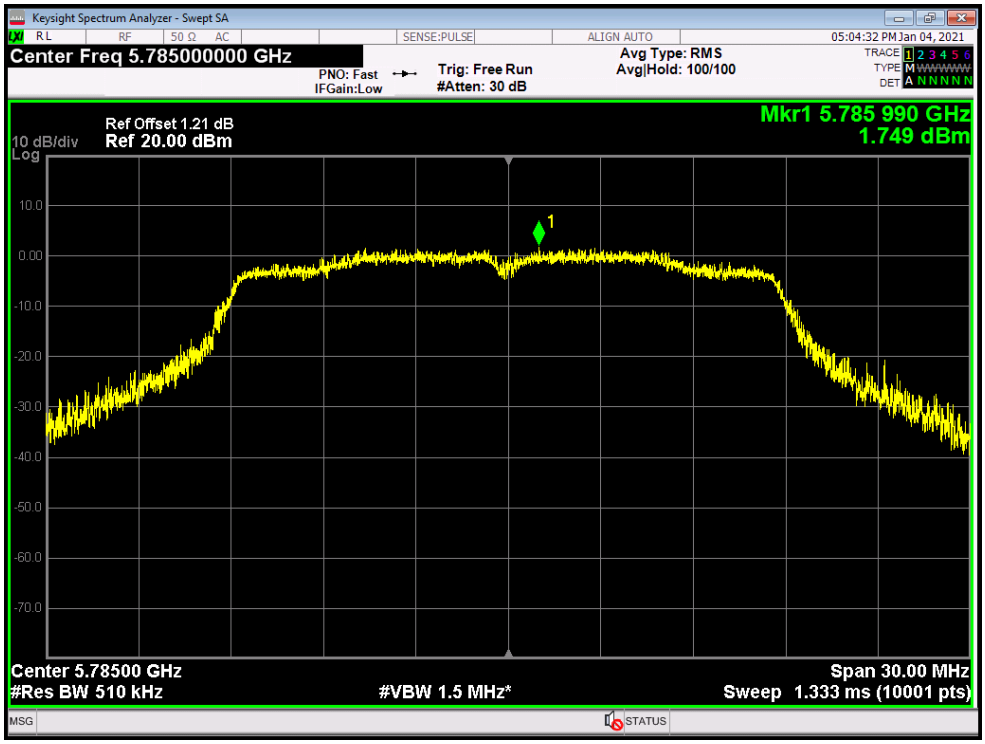
PSD NVNT a 5825MHz Ant1



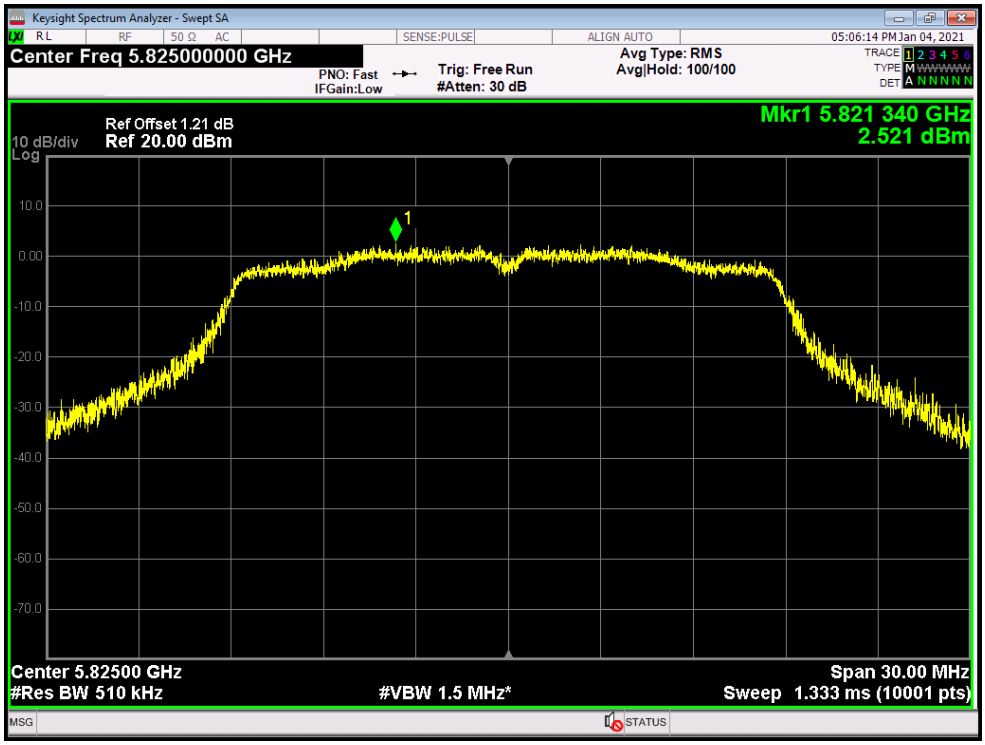
PSD NVNT ac20 5745MHz Ant1



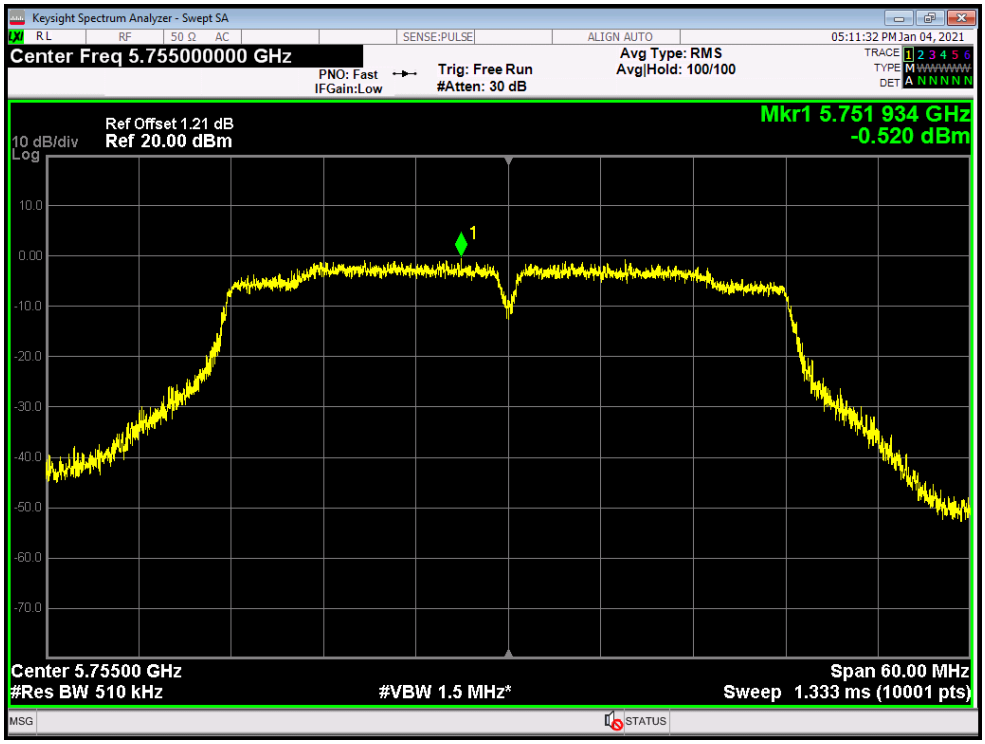
PSD NVNT ac20 5785MHz Ant1



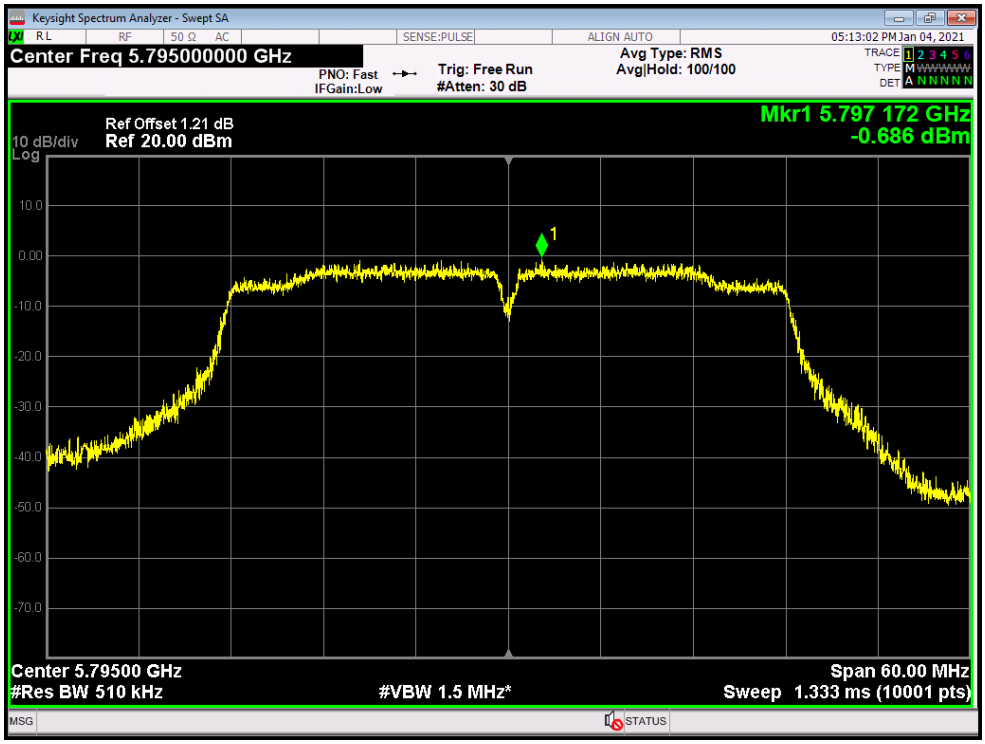
PSD NVNT ac20 5825MHz Ant1



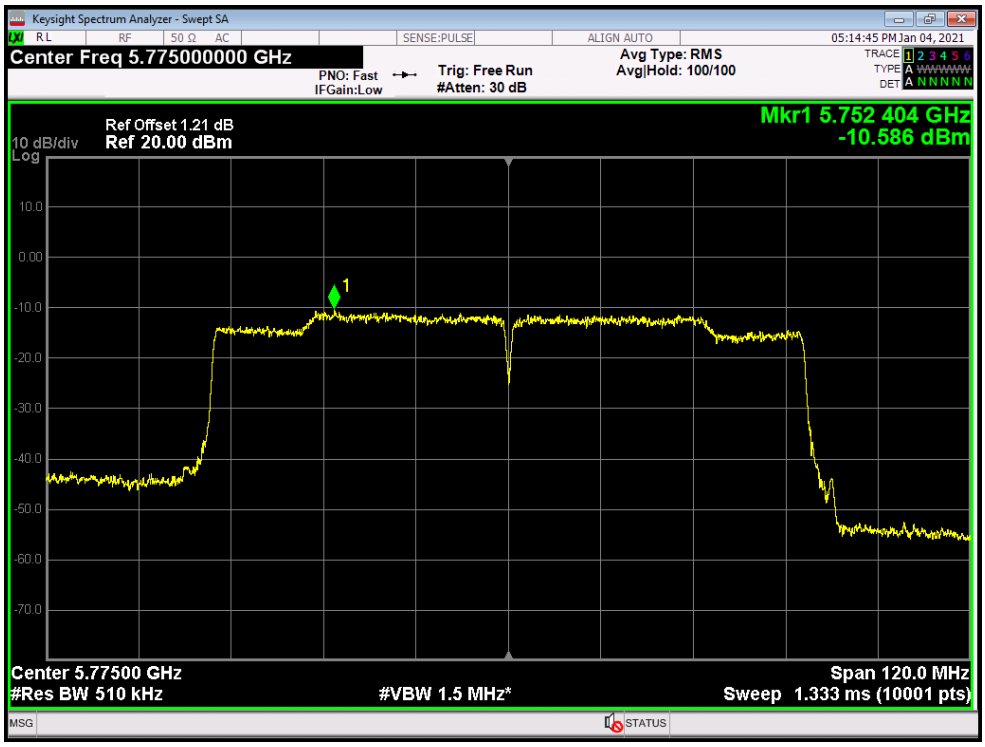
PSD NVNT ac40 5755MHz Ant1



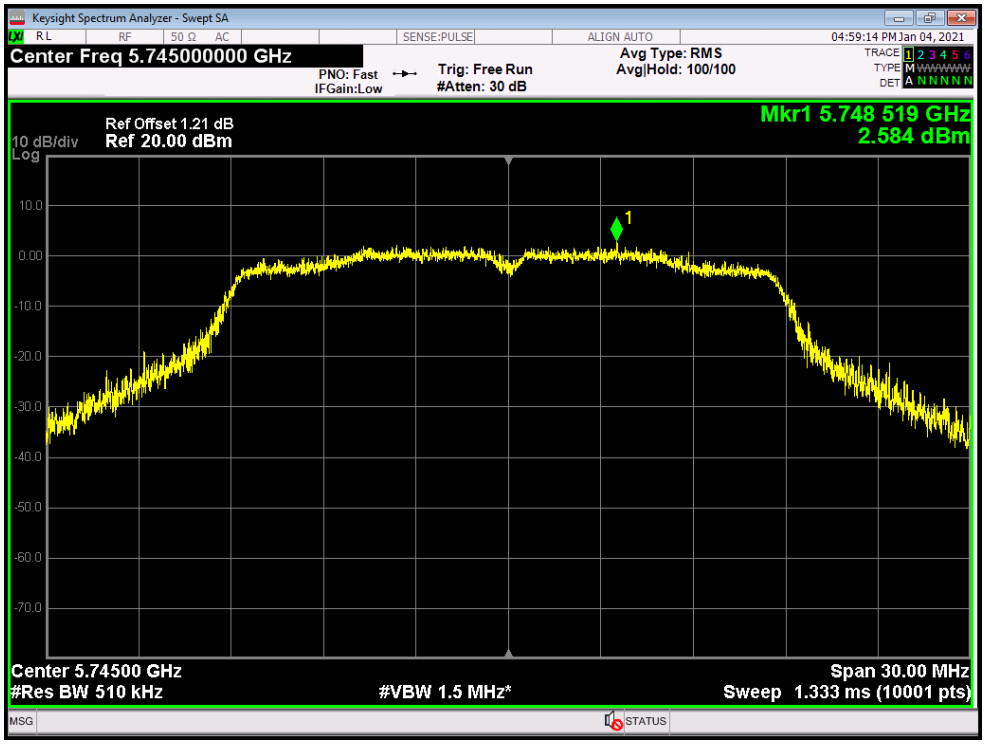
PSD NVNT ac40 5795MHz Ant1



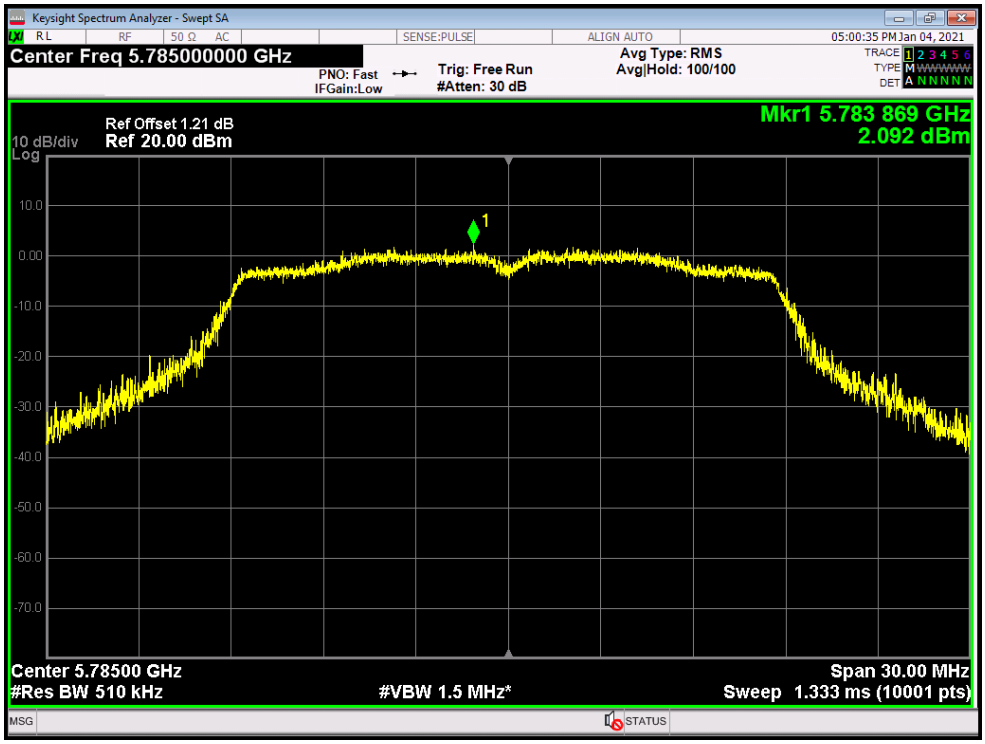
PSD NVNT ac80 5775MHz Ant1



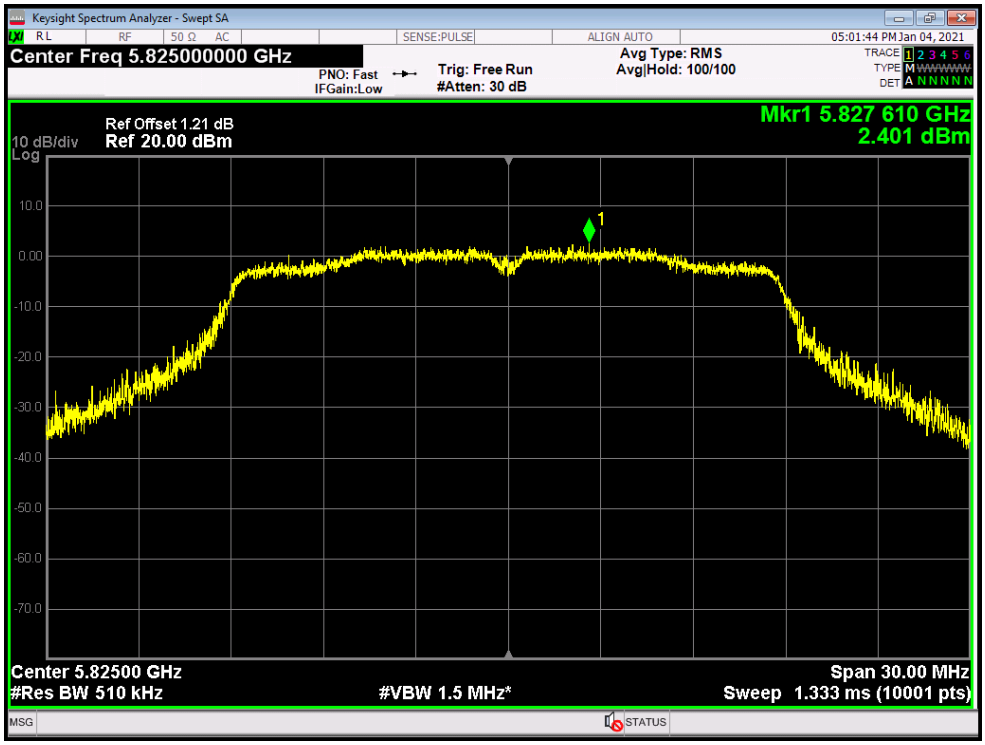
PSD NVNT n20 5745MHz Ant1



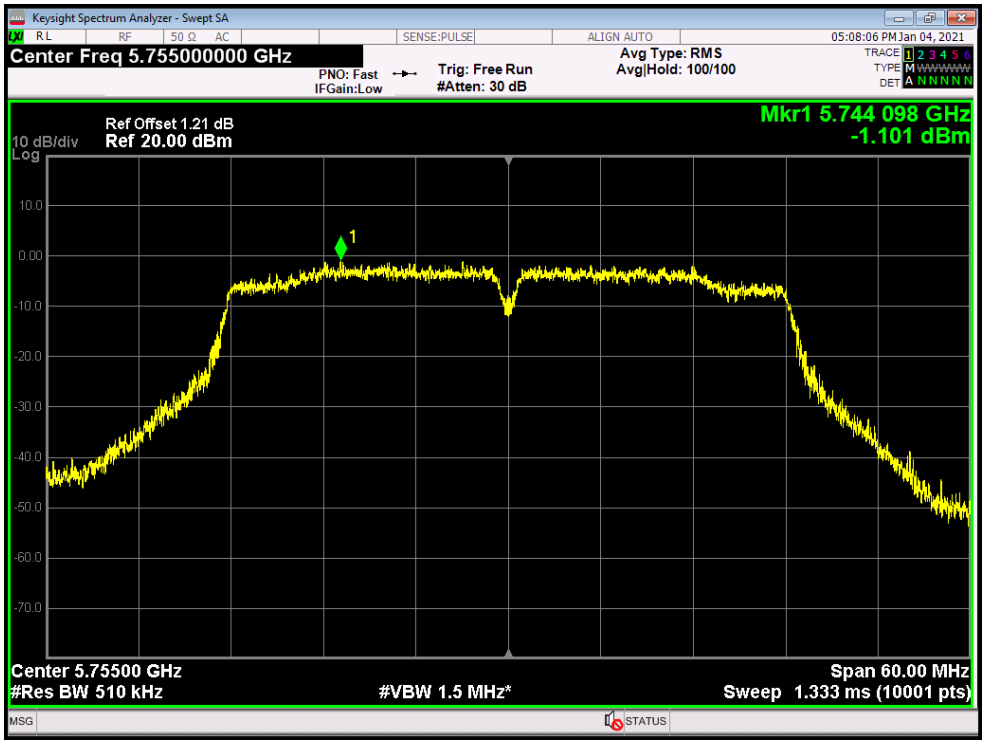
PSD NVNT n20 5785MHz Ant1



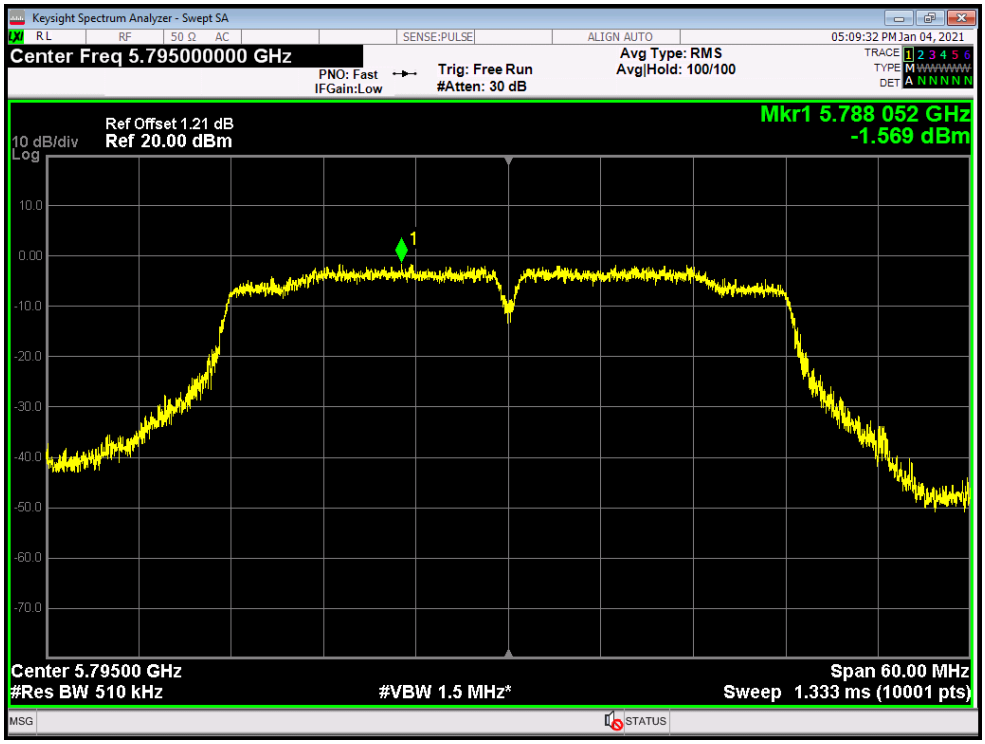
PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



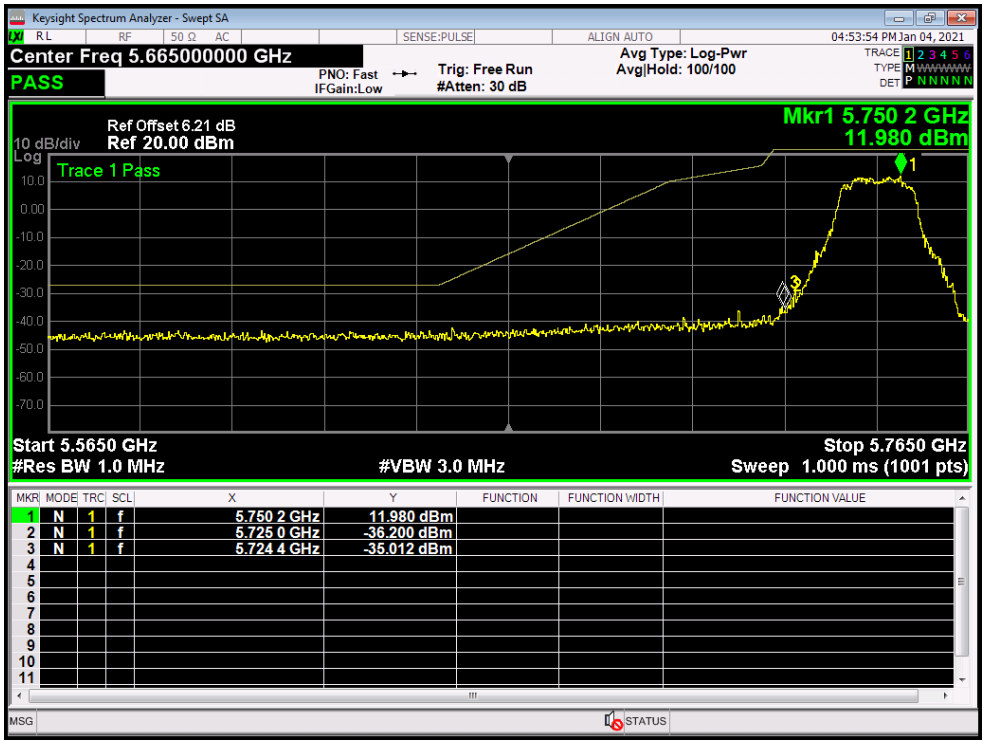
PSD NVNT n40 5795MHz Ant1



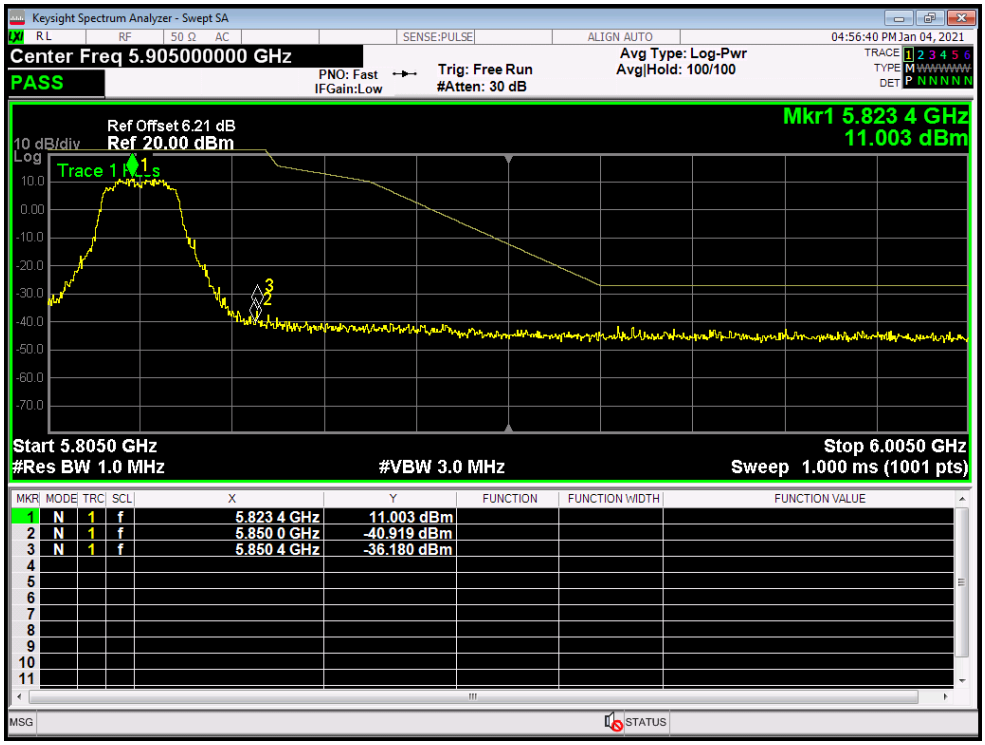
BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Verdict
NVNT	a	5745	Ant1	-35.01	Pass
NVNT	a	5825	Ant1	-36.18	Pass
NVNT	ac20	5745	Ant1	-35.23	Pass
NVNT	ac20	5825	Ant1	-37.2	Pass
NVNT	ac40	5755	Ant1	-29.21	Pass
NVNT	ac40	5795	Ant1	-38.95	Pass
NVNT	ac80	5775	Ant1	-40.44	Pass
NVNT	n20	5745	Ant1	-34.74	Pass
NVNT	n20	5825	Ant1	-37.16	Pass
NVNT	n40	5755	Ant1	-31.86	Pass
NVNT	n40	5795	Ant1	-39.68	Pass

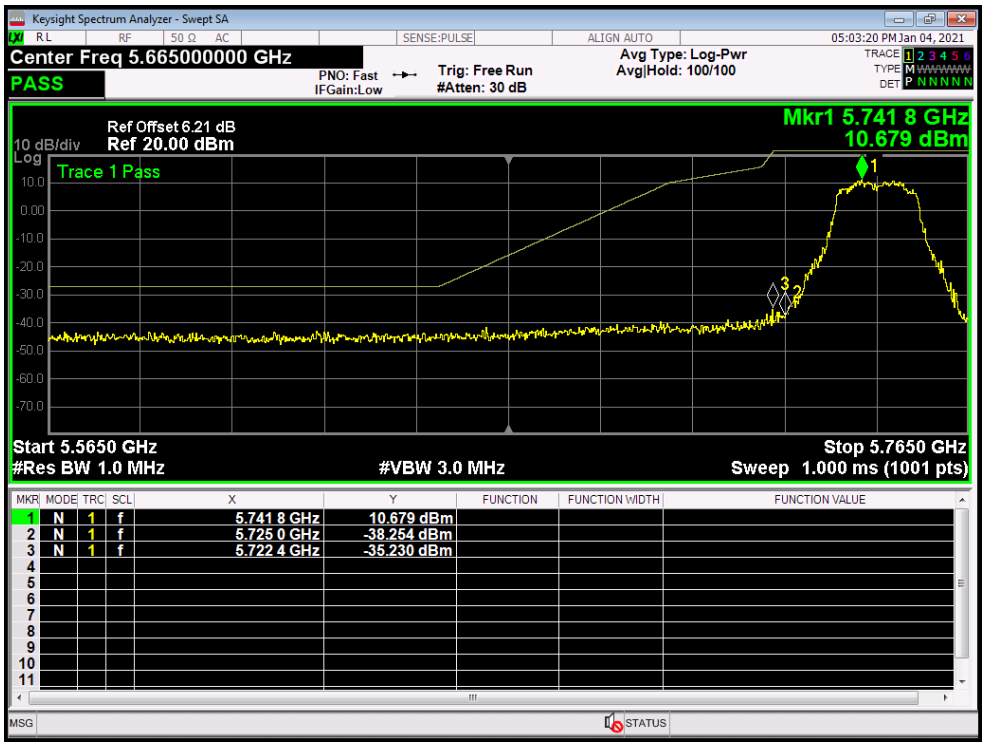
Band Edge NVNT a 5745MHz Low Ant1



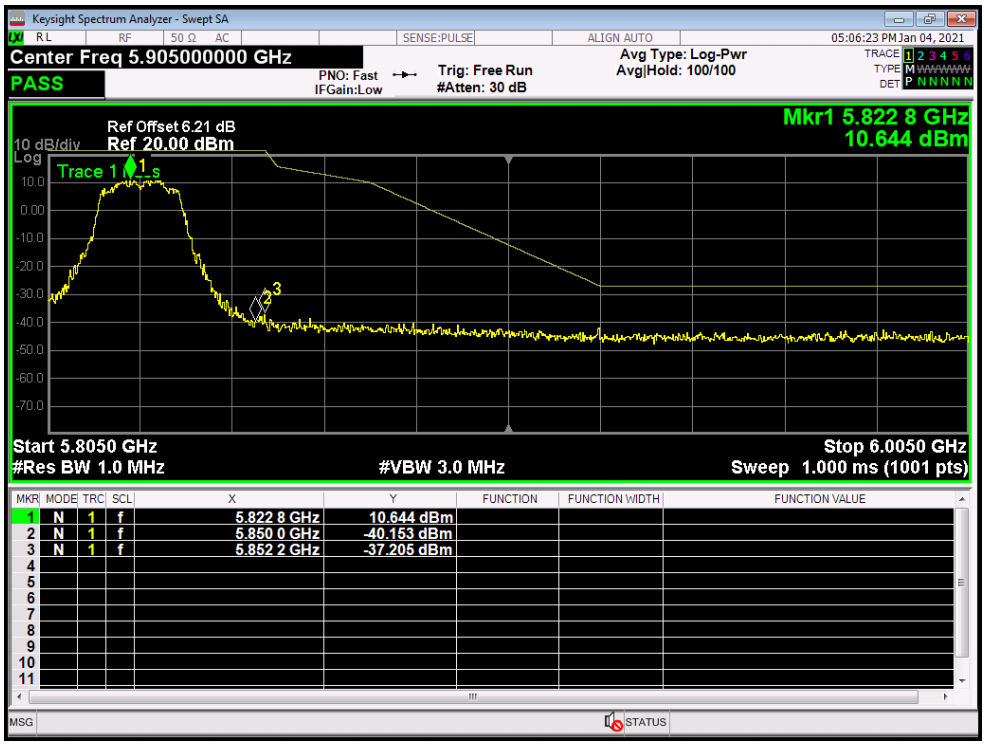
Band Edge NVNT a 5825MHz High Ant1



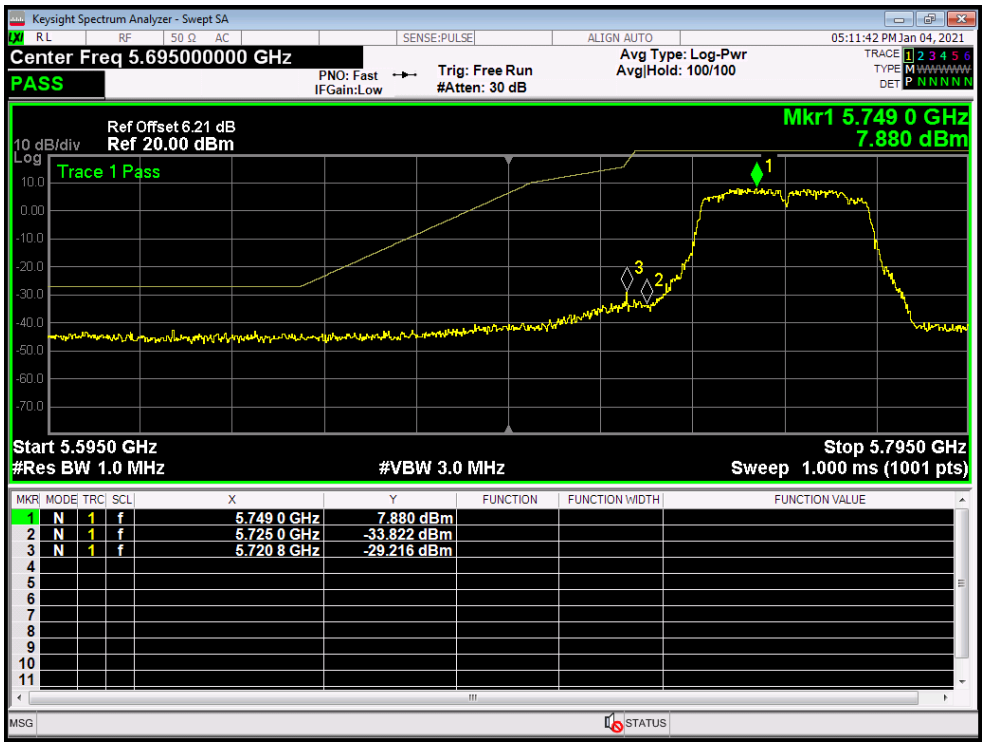
Band Edge NVNT ac20 5745MHz Low Ant1



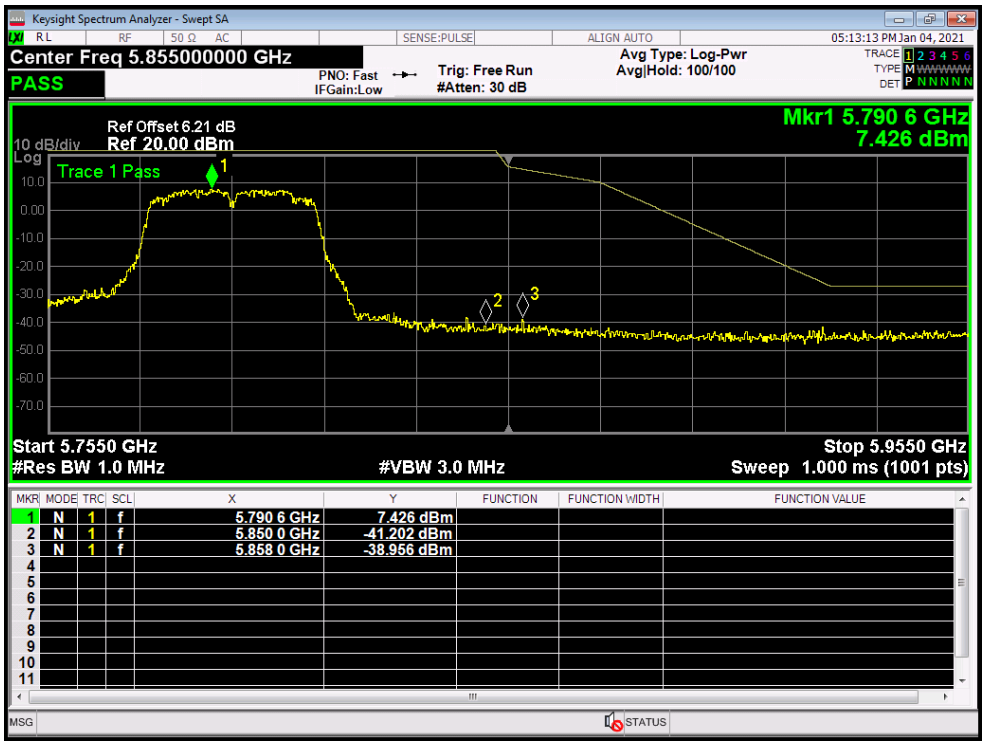
Band Edge NVNT ac20 5825MHz High Ant1



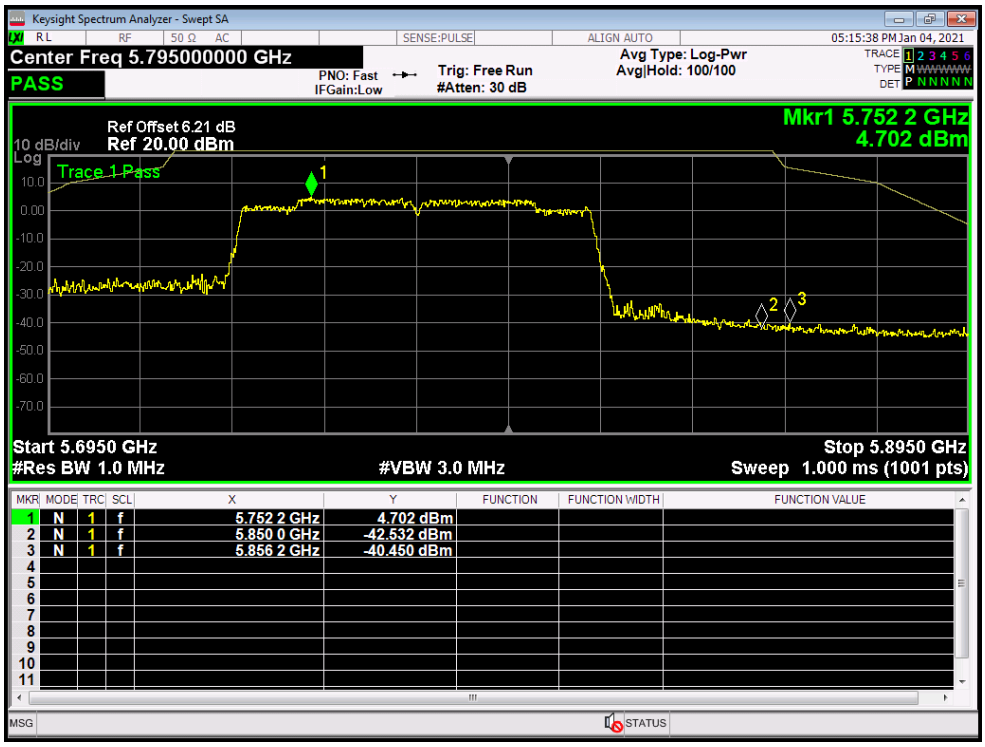
Band Edge NVNT ac40 5755MHz Low Ant1



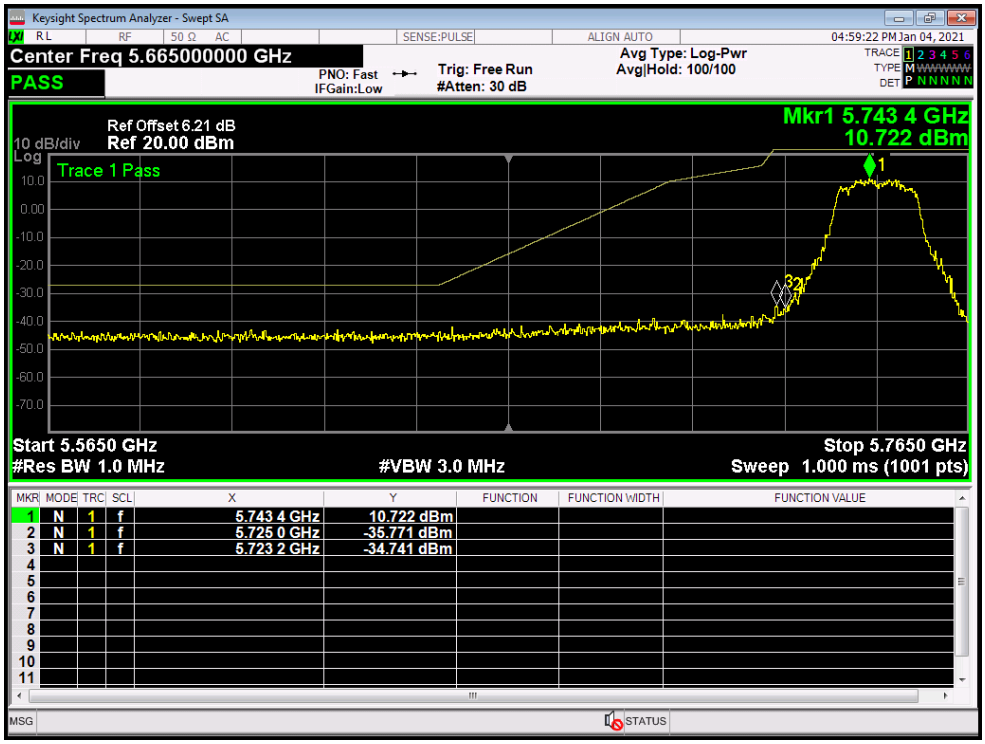
Band Edge NVNT ac40 5795MHz High Ant1



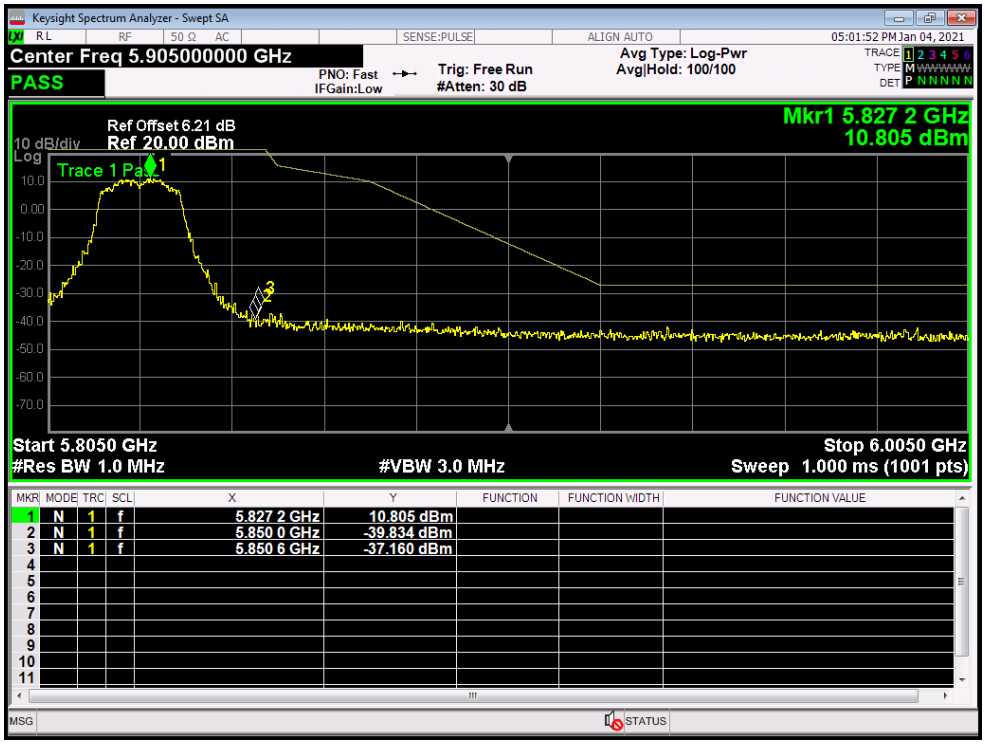
Band Edge NVNT ac80 5775MHz High Ant1



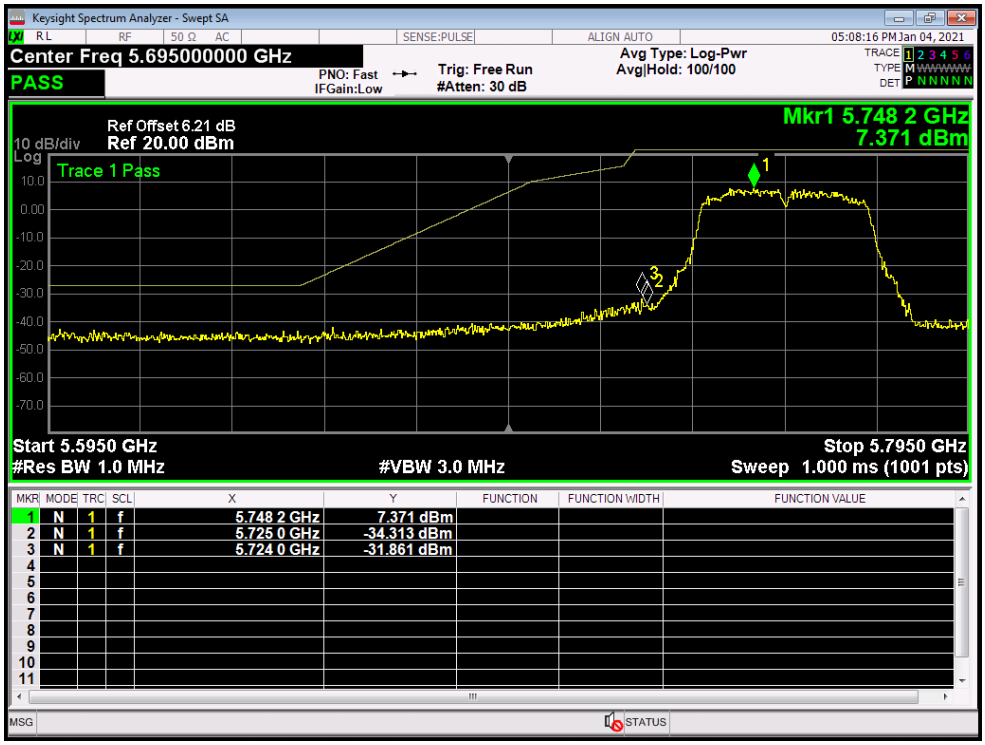
Band Edge NVNT n20 5745MHz Low Ant1



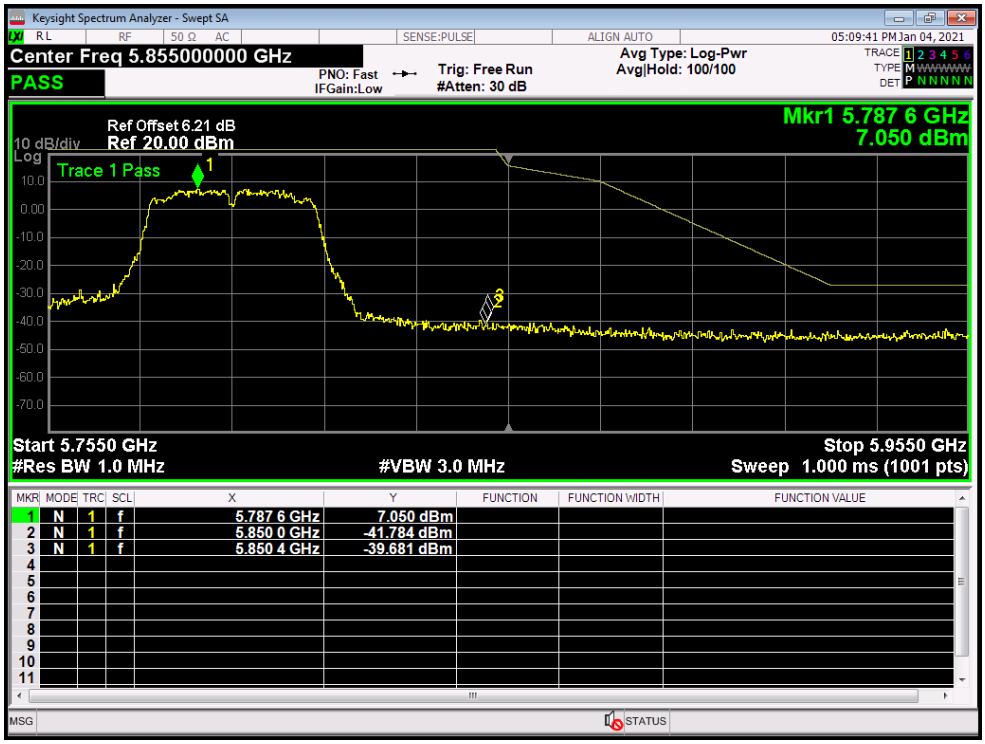
Band Edge NVNT n20 5825MHz High Ant1



Band Edge NVNT n40 5755MHz Low Ant1



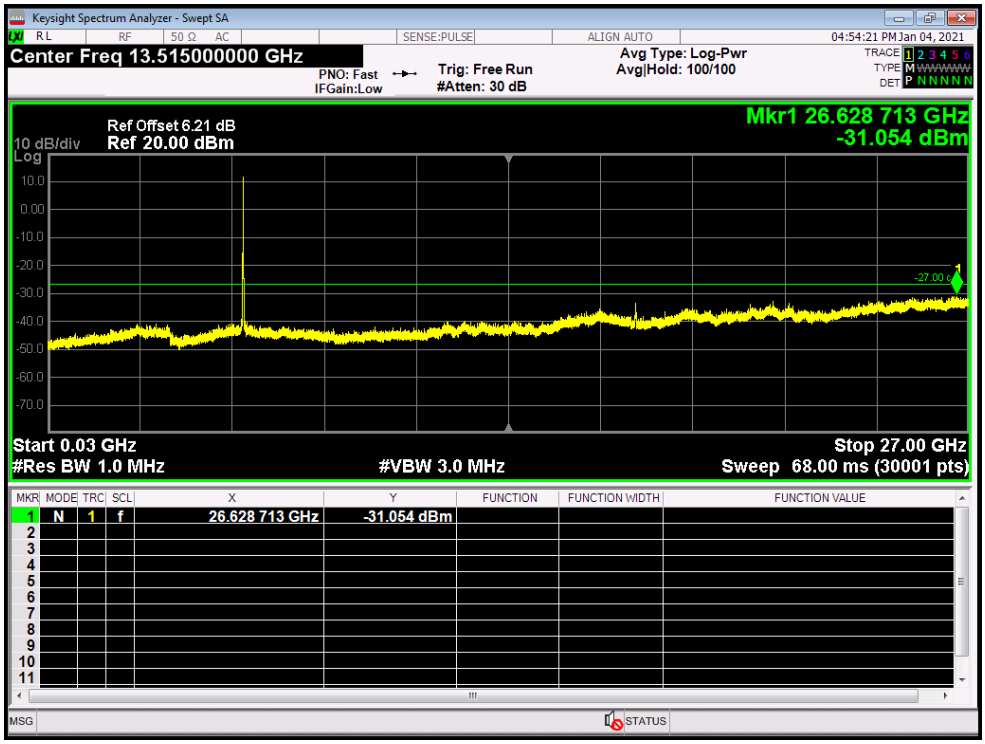
Band Edge NVNT n40 5795MHz High Ant1


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.855000000 GHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
05:09:41 PM Jan 04, 2021
Ref Offset 6.21 dB
10 dB/div
Ref 20.00 dBm
Log
Trace 1 Pass
Mkr1 5.787 6 GHz
7.050 dBm
Start 5.7550 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.9550 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.787 6 GHz 7.050 dBm
2 N 1 f 5.850 0 GHz -41.784 dBm
3 N 1 f 5.850 4 GHz -39.681 dBm

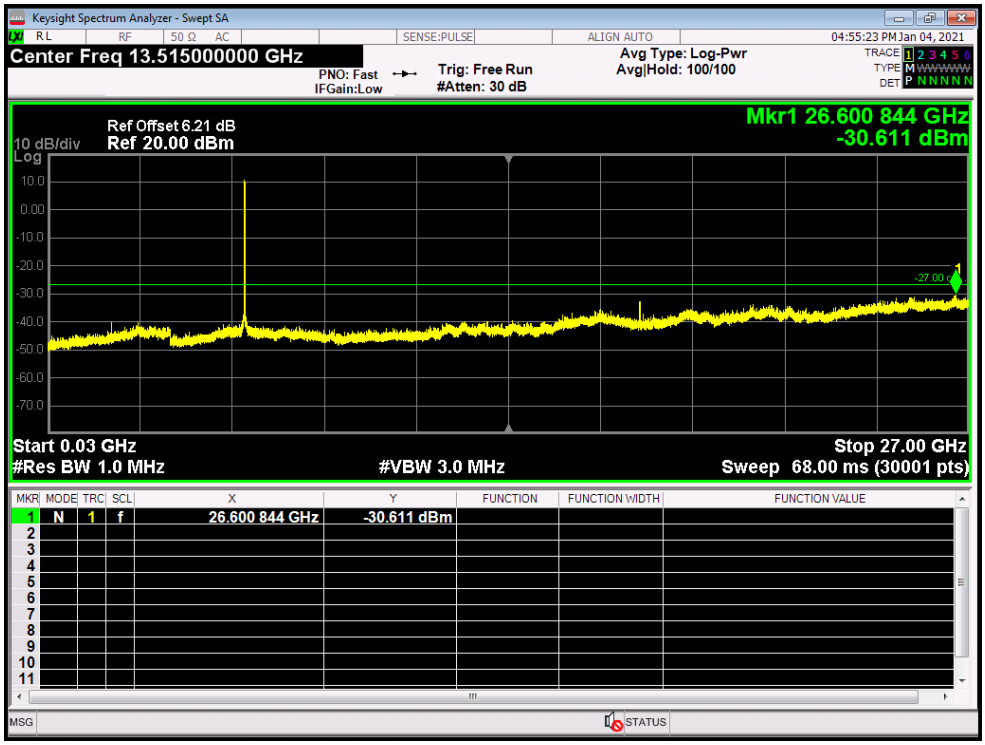
CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5745	Ant1	-31.05	-27	Pass
NVNT	a	5785	Ant1	-30.61	-27	Pass
NVNT	a	5825	Ant1	-30.62	-27	Pass
NVNT	ac20	5745	Ant1	-29.94	-27	Pass
NVNT	ac20	5785	Ant1	-31.04	-27	Pass
NVNT	ac20	5825	Ant1	-31.1	-27	Pass
NVNT	ac40	5755	Ant1	-29.85	-27	Pass
NVNT	ac40	5795	Ant1	-31.01	-27	Pass
NVNT	ac80	5775	Ant1	-30.19	-27	Pass
NVNT	n20	5745	Ant1	-30.39	-27	Pass
NVNT	n20	5785	Ant1	-30.49	-27	Pass
NVNT	n20	5825	Ant1	-30.35	-27	Pass
NVNT	n40	5755	Ant1	-30.29	-27	Pass
NVNT	n40	5795	Ant1	-30.68	-27	Pass

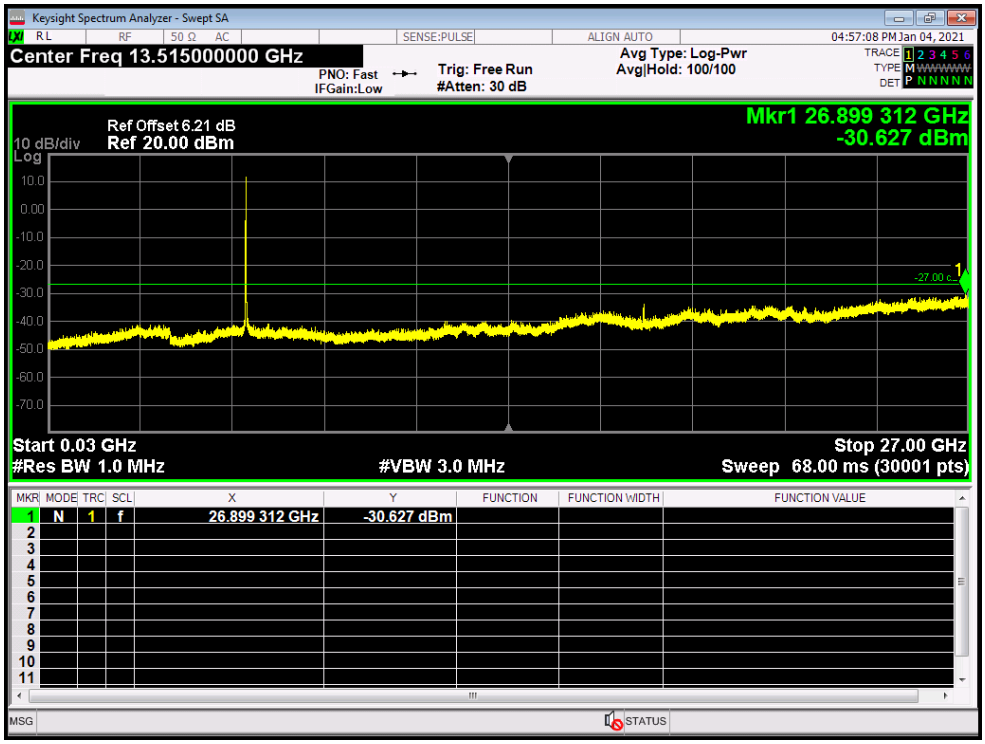
Tx. Spurious NVNT a 5745MHz Ant1 Emission



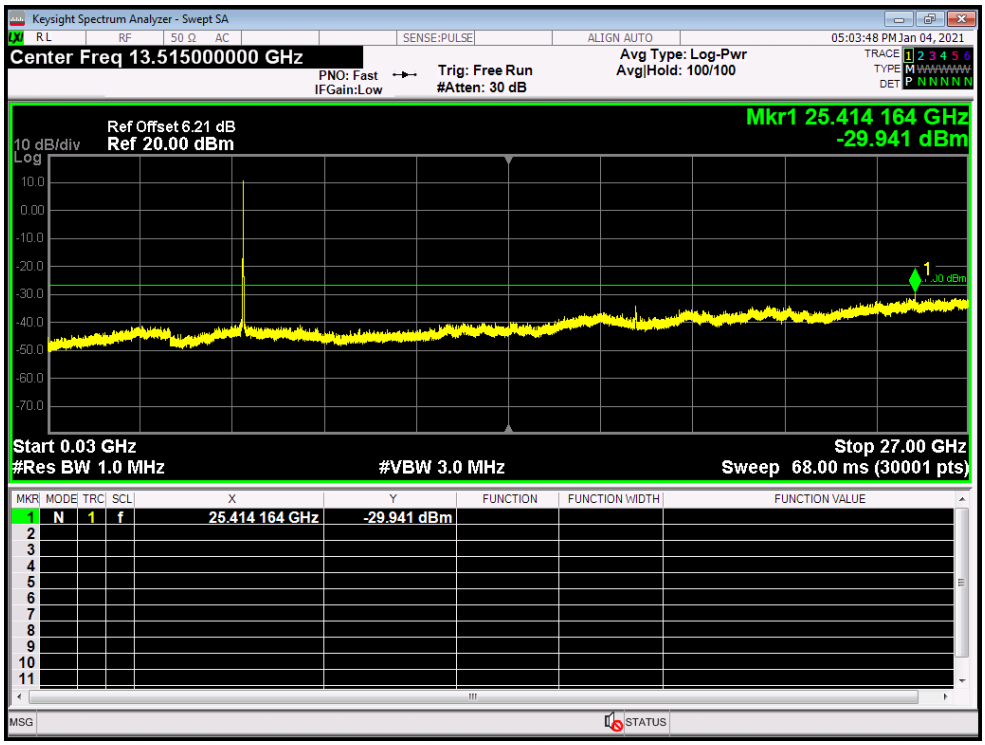
Tx. Spurious NVNT a 5785MHz Ant1 Emission



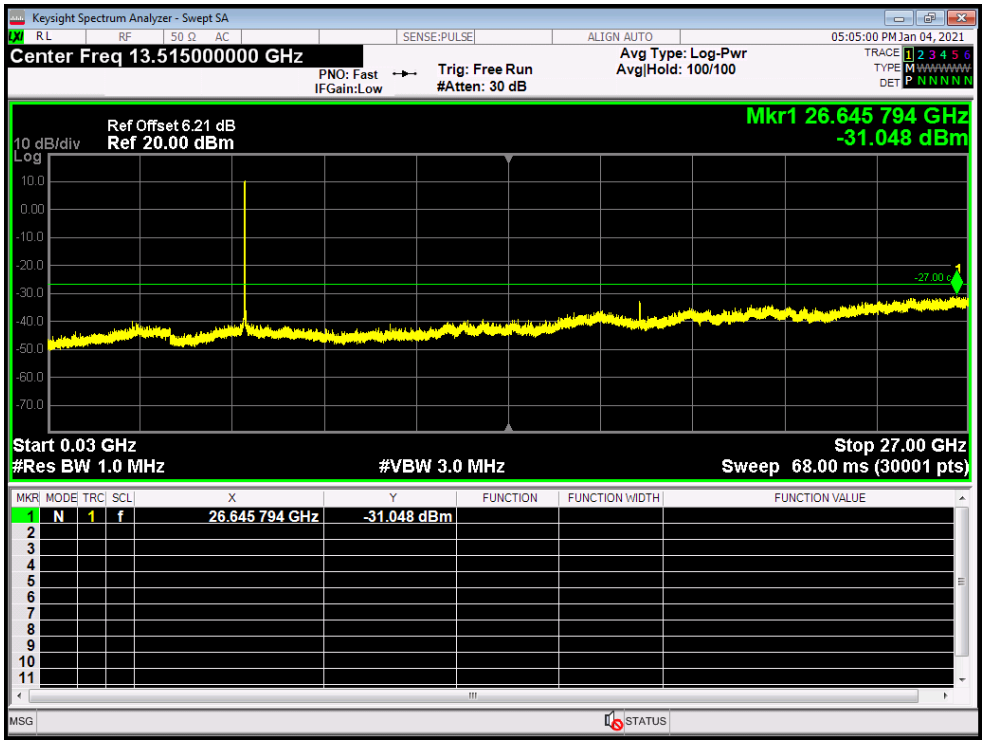
Tx. Spurious NVNT a 5825MHz Ant1 Emission



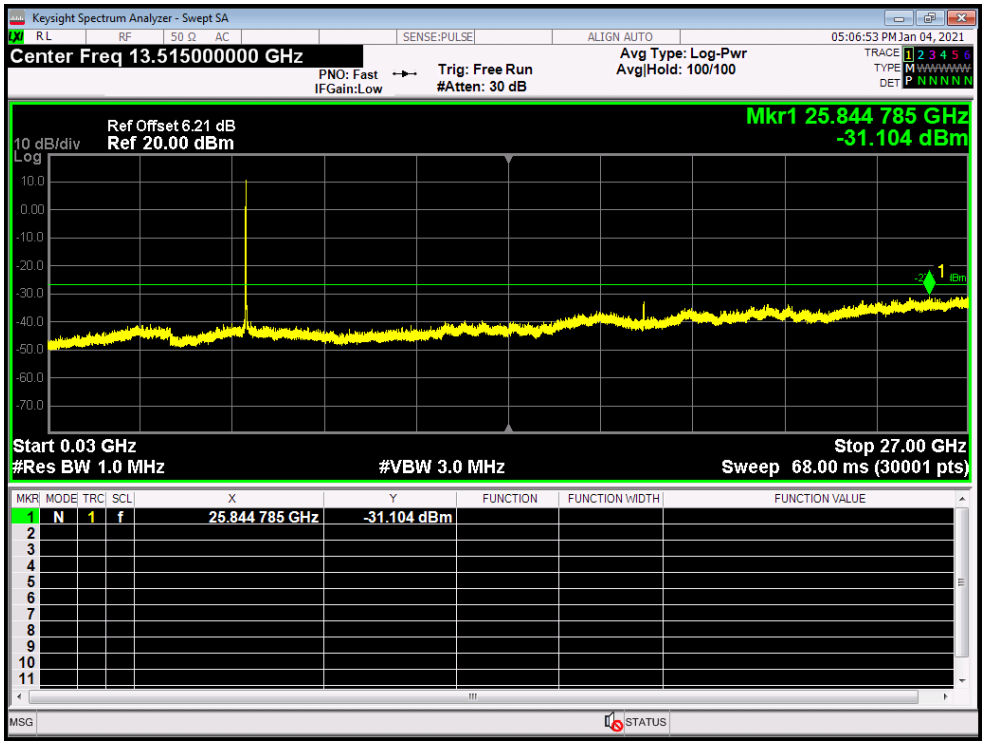
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



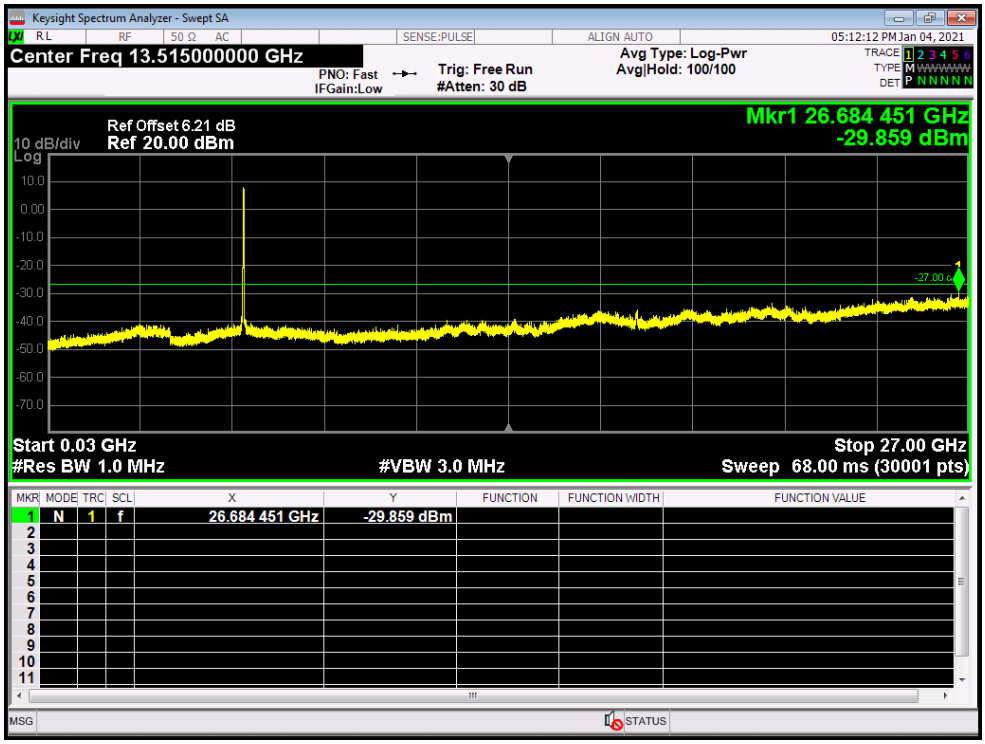
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



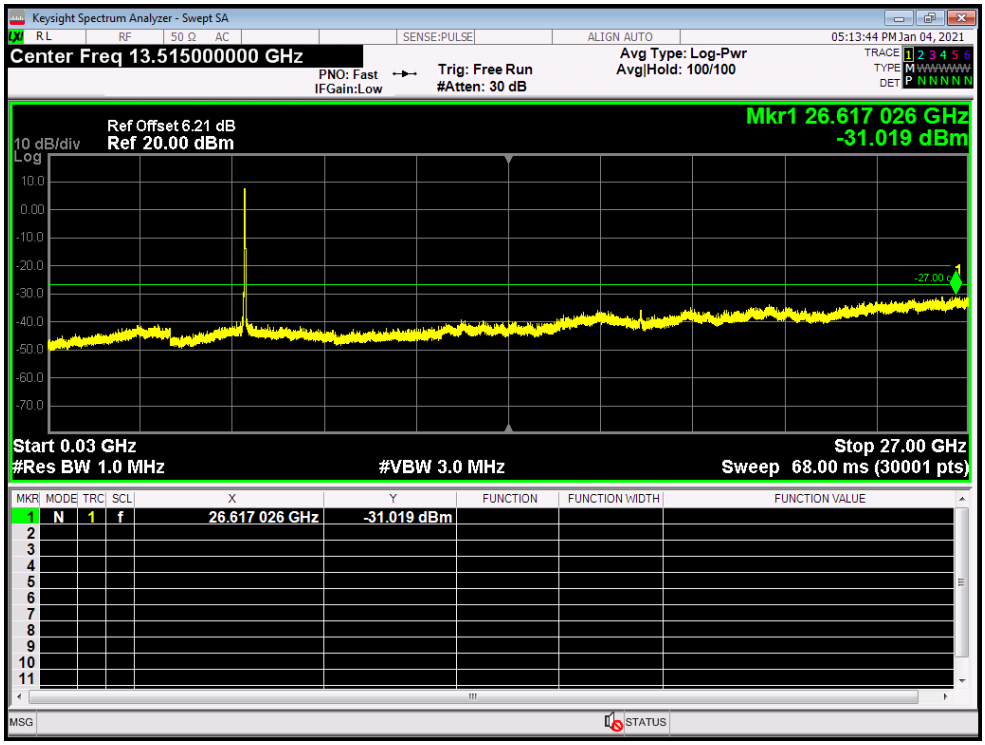
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



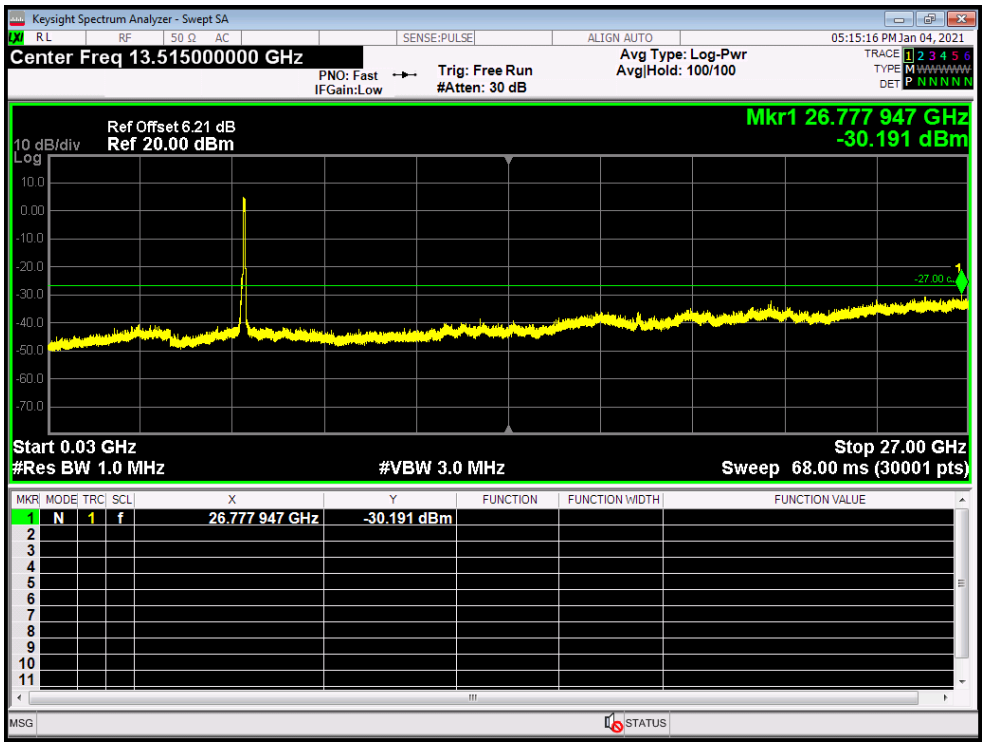
Tx. Spurious NVNT ac40 5755MHz Ant1 Emission



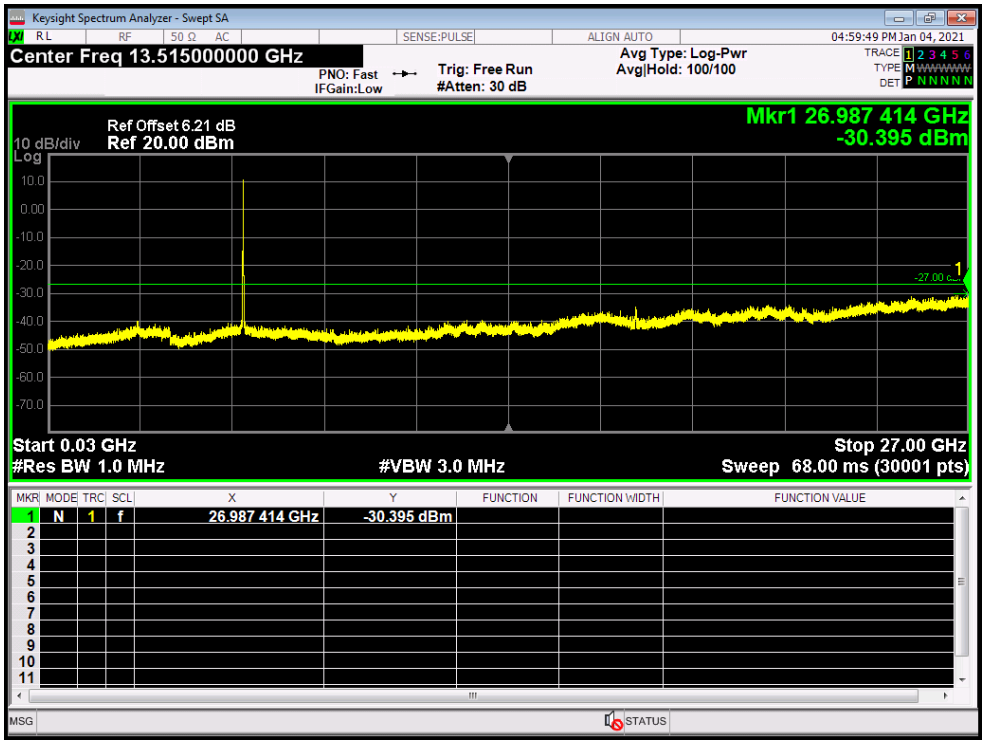
Tx. Spurious NVNT ac40 5795MHz Ant1 Emission



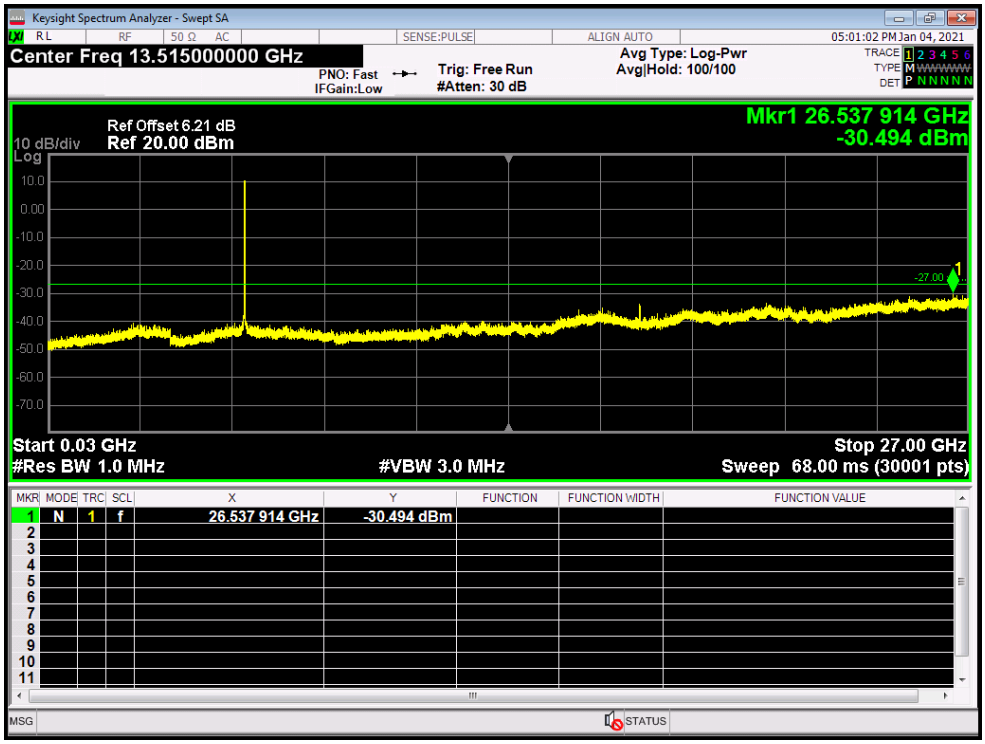
Tx. Spurious NVNT ac80 5775MHz Ant1 Emission



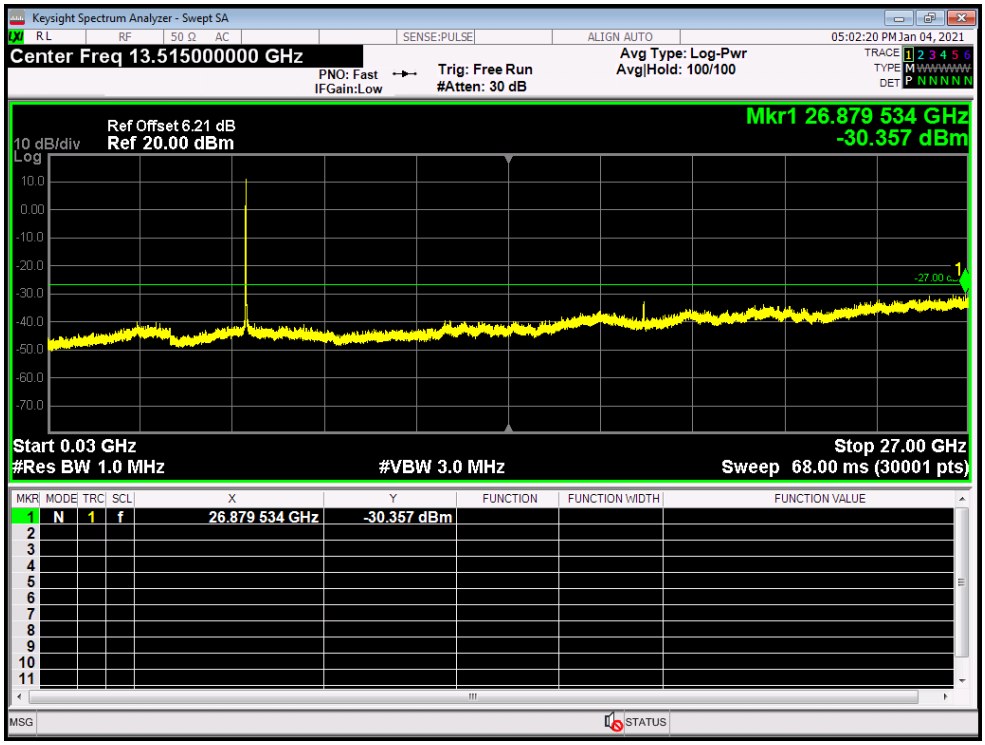
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



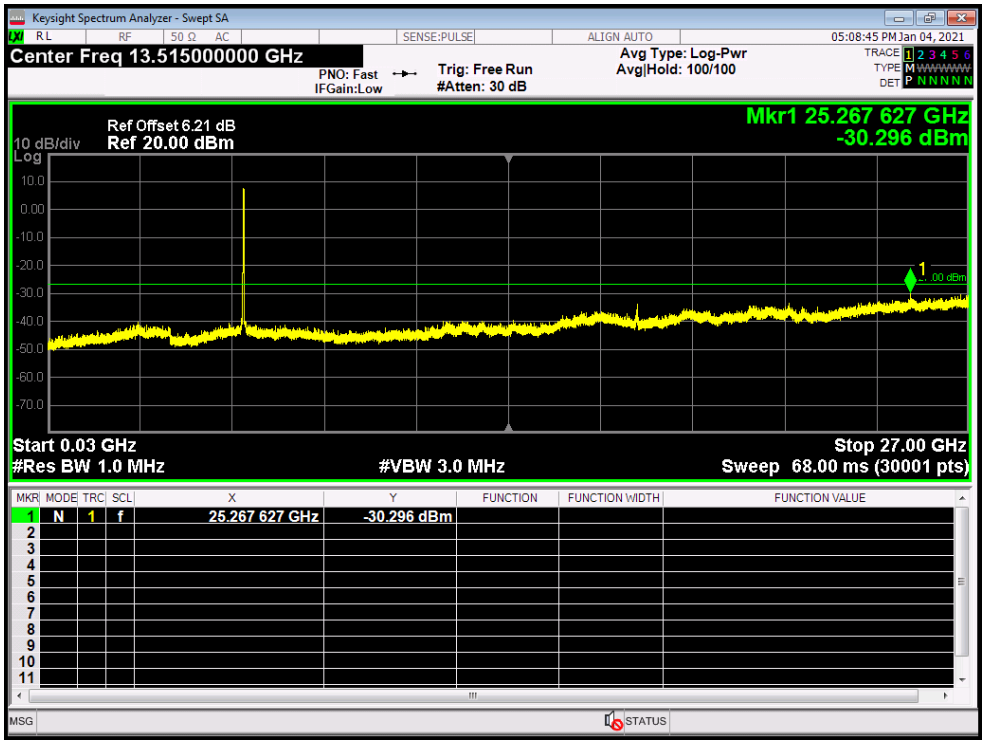
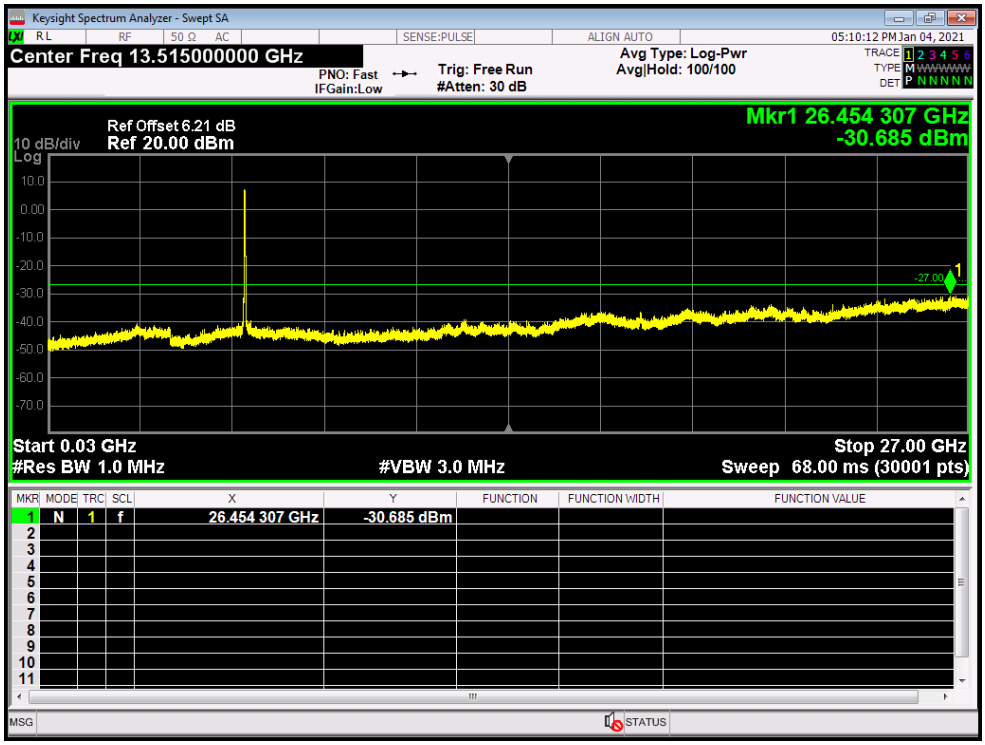
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



Tx. Spurious NVNT n20 5825MHz Ant1 Emission



Tx. Spurious NVNT n40 5755MHz Ant1 Emission



Tx. Spurious NVNT n40 5795MHz Ant1 Emission