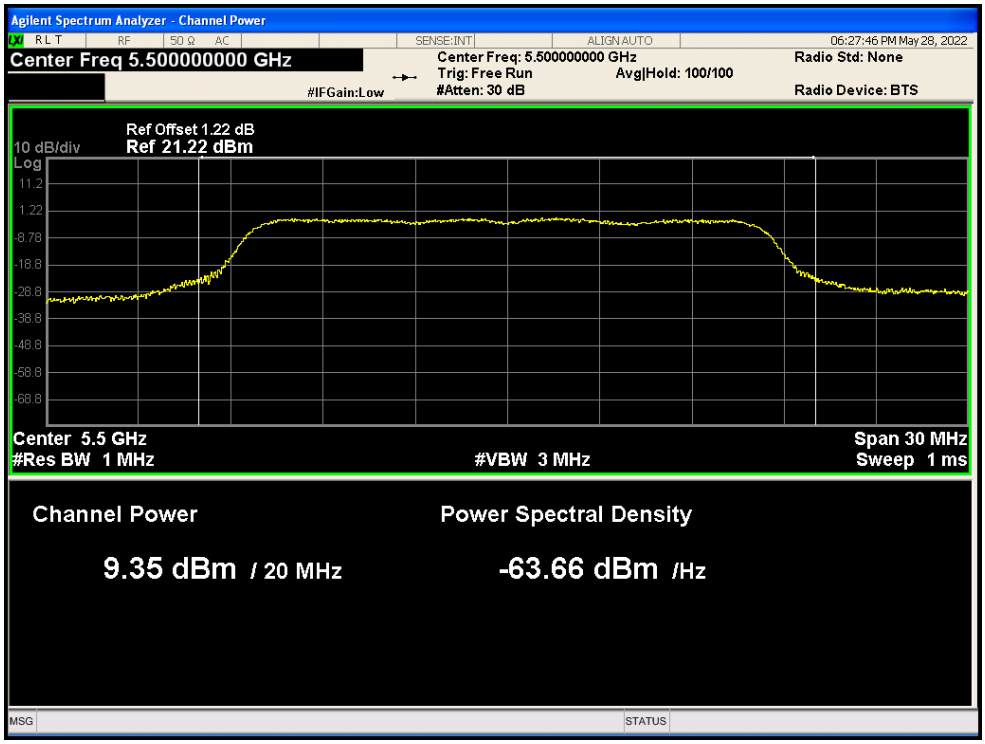
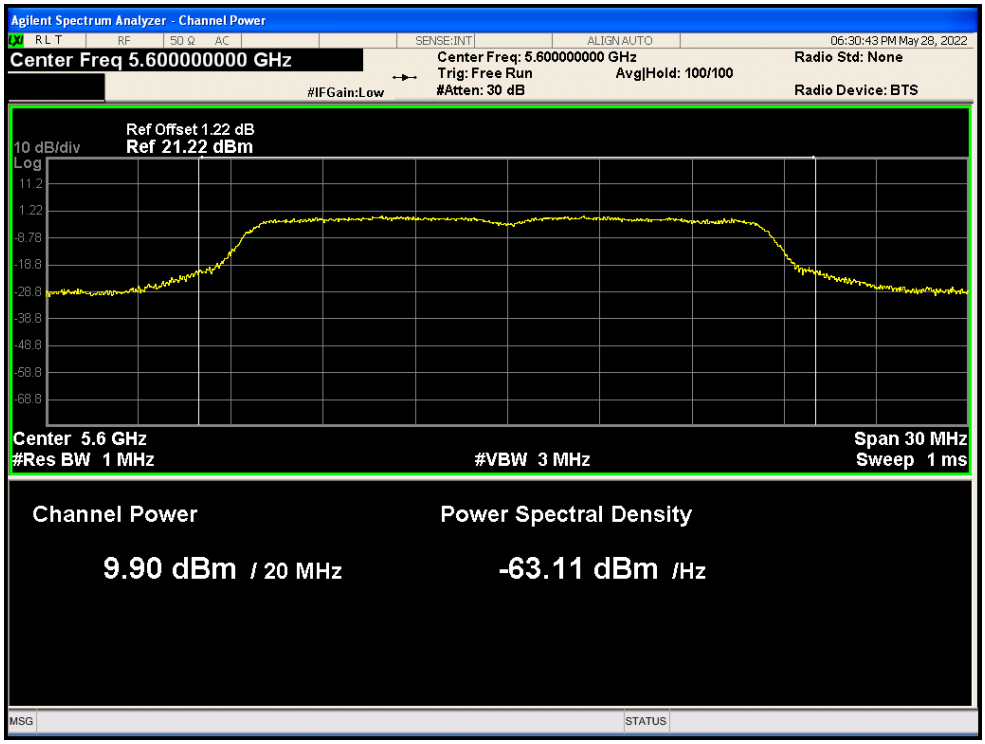
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	9.355	0.78	10.135	24	Pass
NVNT	a	5600	Ant1	9.902	0.79	10.692	24	Pass
NVNT	a	5700	Ant1	10.196	0.79	10.986	24	Pass
NVNT	ac20	5500	Ant1	9.403	0.84	10.243	24	Pass
NVNT	ac20	5600	Ant1	8.999	0.83	9.829	24	Pass
NVNT	ac20	5700	Ant1	9.009	0.84	9.849	24	Pass
NVNT	n20	5500	Ant1	9.265	0.84	10.105	24	Pass
NVNT	n20	5600	Ant1	10.045	0.85	10.895	24	Pass
NVNT	n20	5700	Ant1	9.983	0.84	10.823	24	Pass

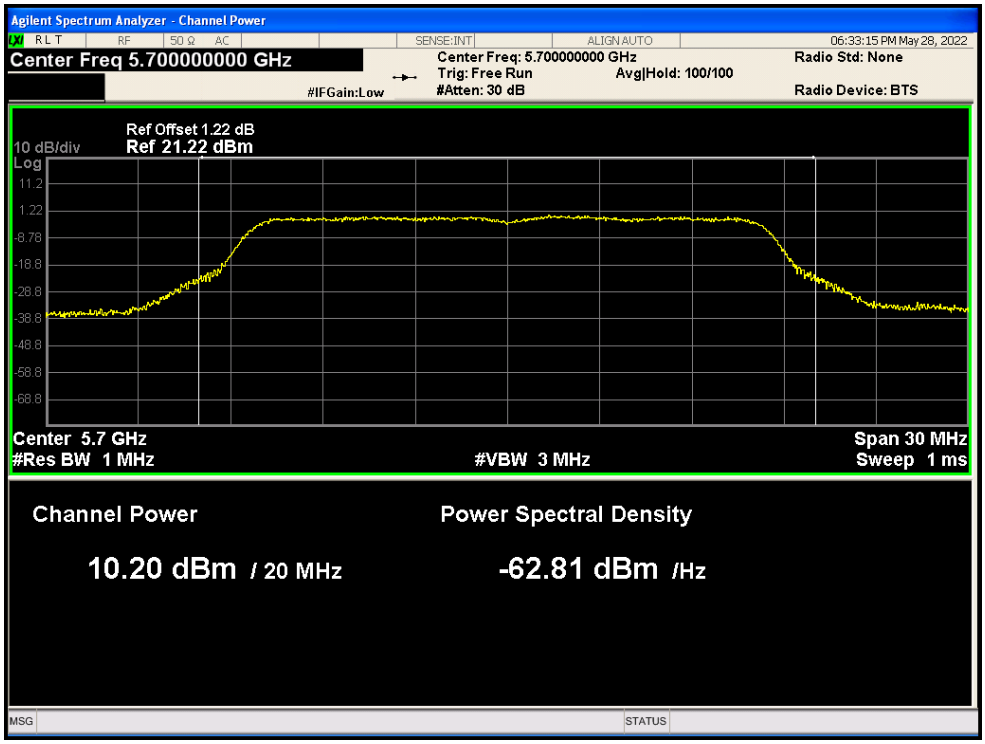
Power NVNT a 5500MHz Ant1



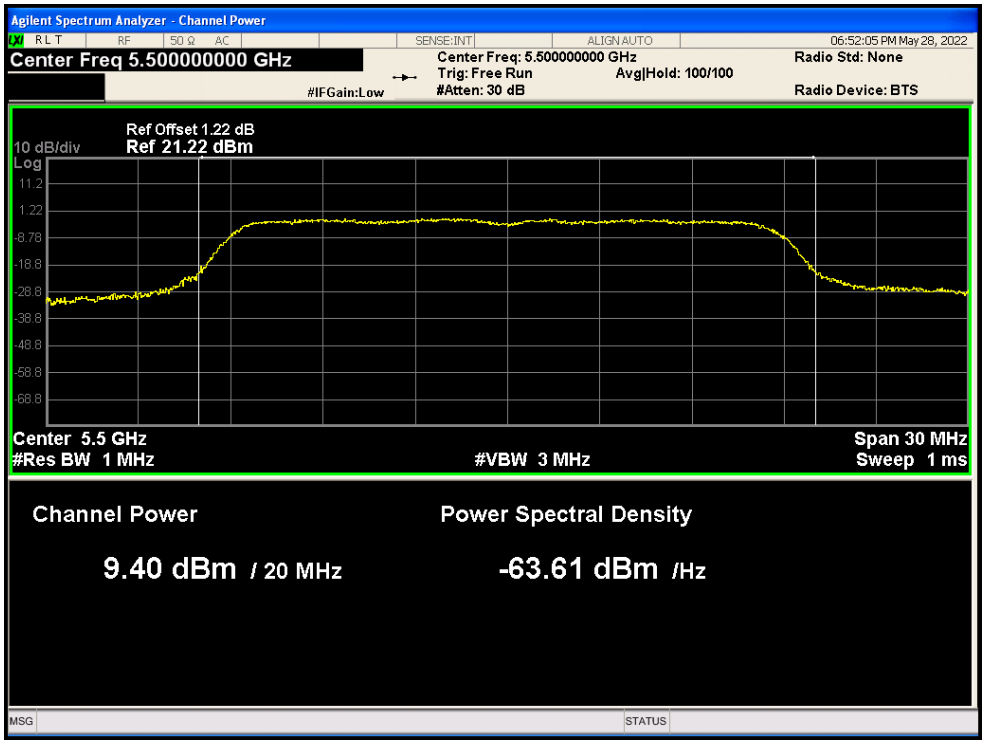
Power NVNT a 5600MHz Ant1



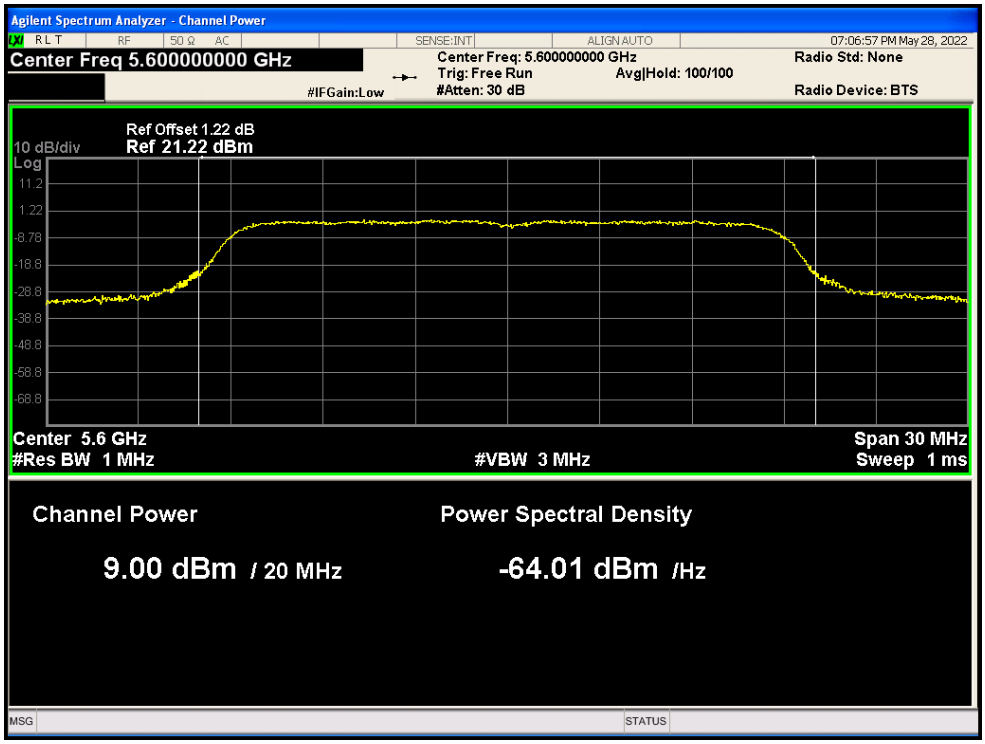
Power NVNT a 5700MHz Ant1



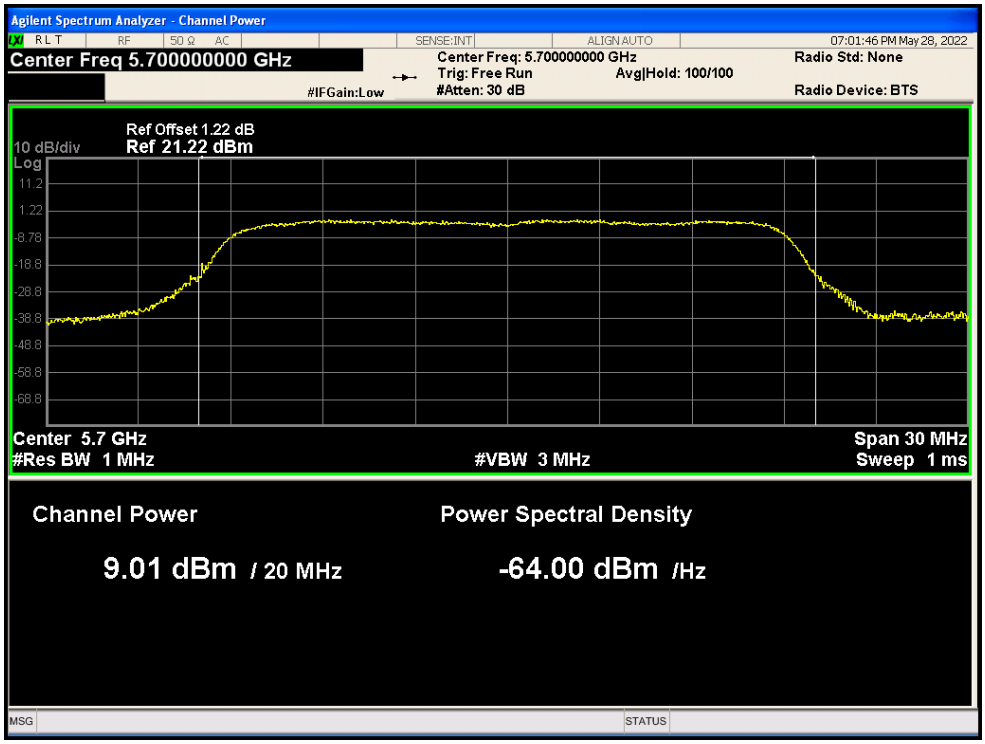
Power NVNT ac20 5500MHz Ant1



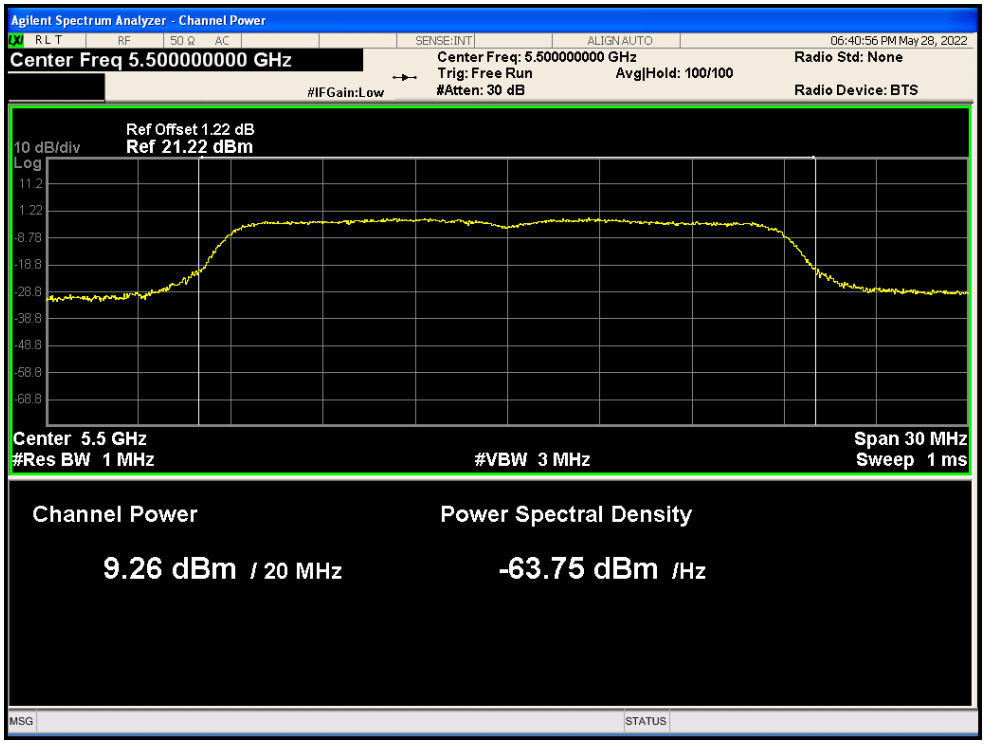
Power NVNT ac20 5600MHz Ant1



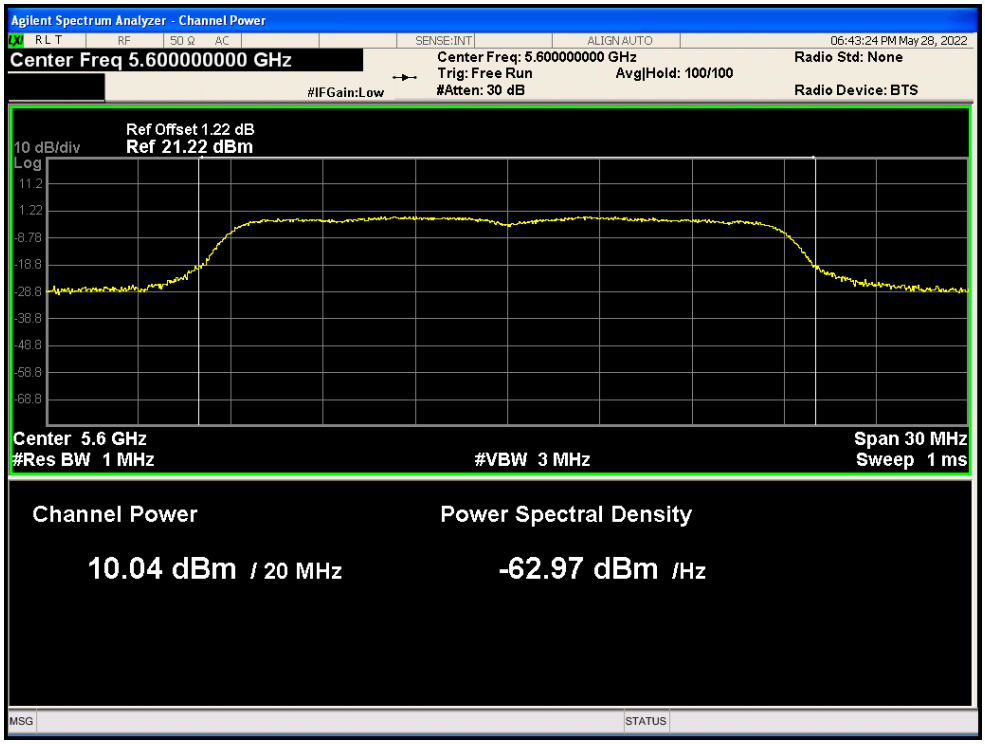
Power NVNT ac20 5700MHz Ant1



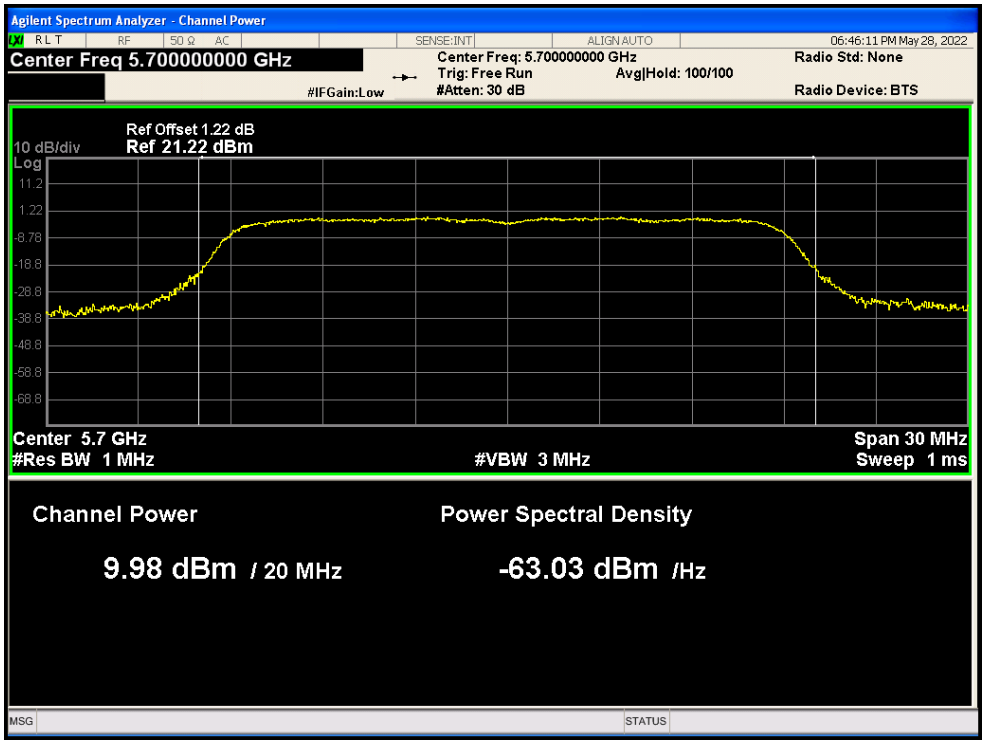
Power NVNT n20 5500MHz Ant1



Power NVNT n20 5600MHz Ant1



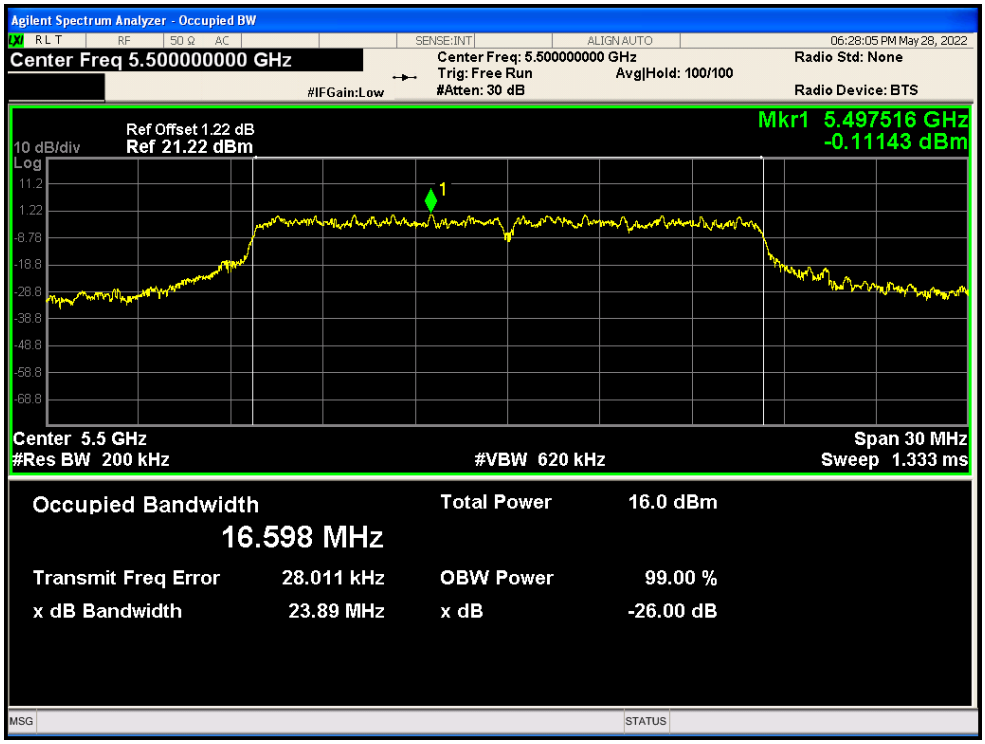
Power NVNT n20 5700MHz Ant1



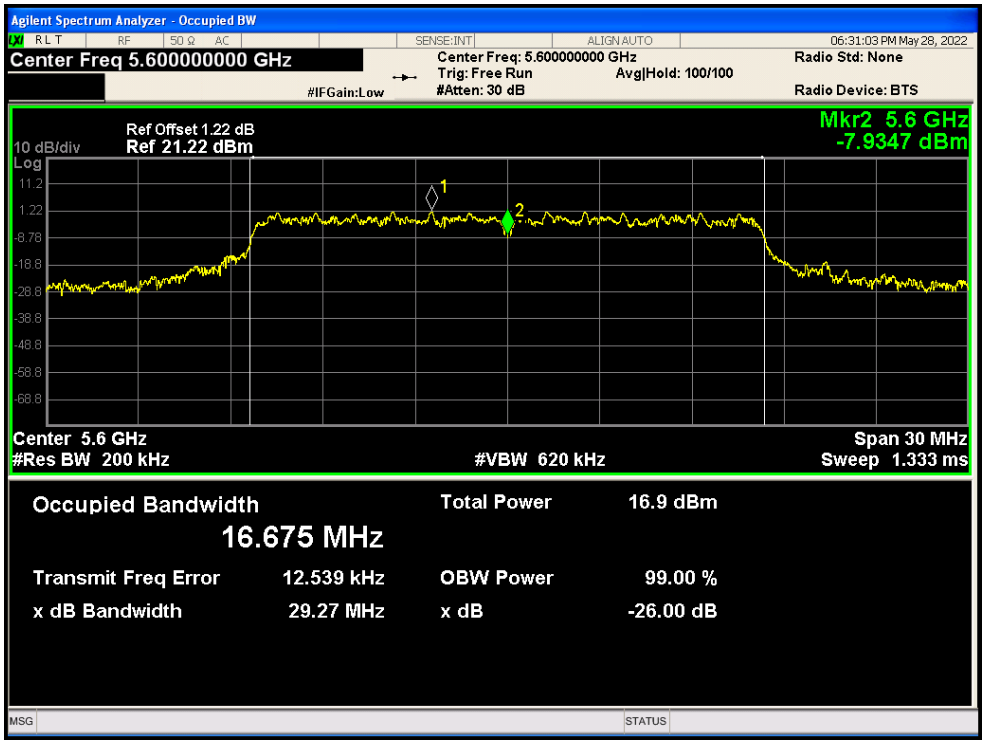
-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	23.887	Pass
NVNT	a	5600	Ant1	29.269	Pass
NVNT	a	5700	Ant1	21.045	Pass
NVNT	ac20	5500	Ant1	27.041	Pass
NVNT	ac20	5600	Ant1	27.219	Pass
NVNT	ac20	5700	Ant1	21.339	Pass
NVNT	n20	5500	Ant1	27.359	Pass
NVNT	n20	5600	Ant1	29.943	Pass
NVNT	n20	5700	Ant1	21.474	Pass

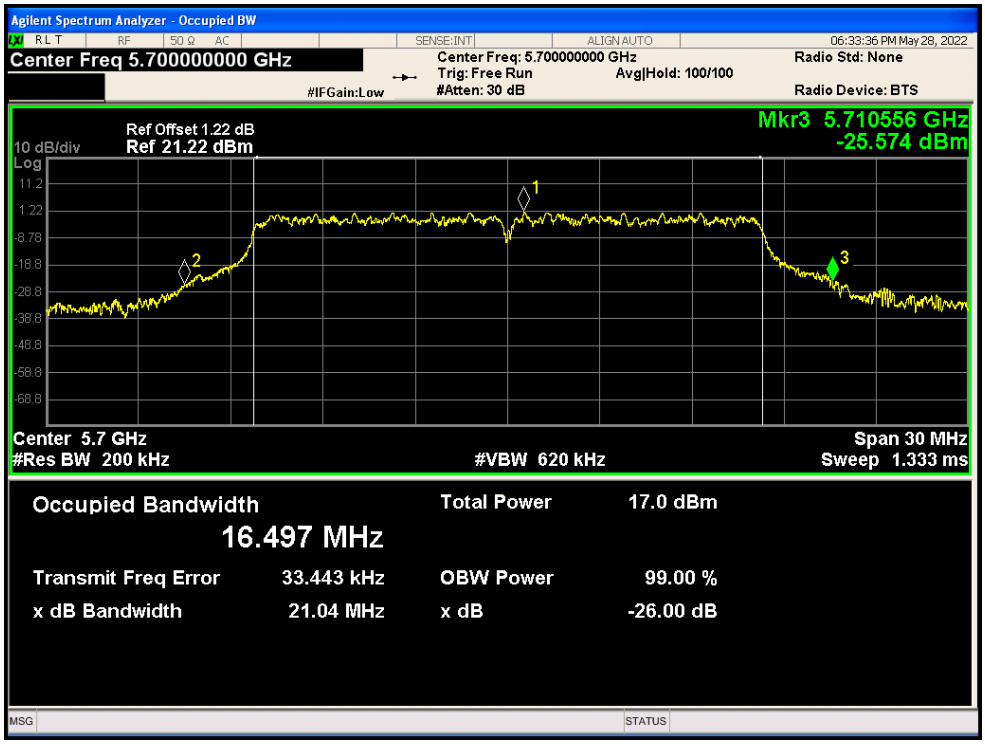
-26dB Bandwidth NVNT a 5500MHz Ant1



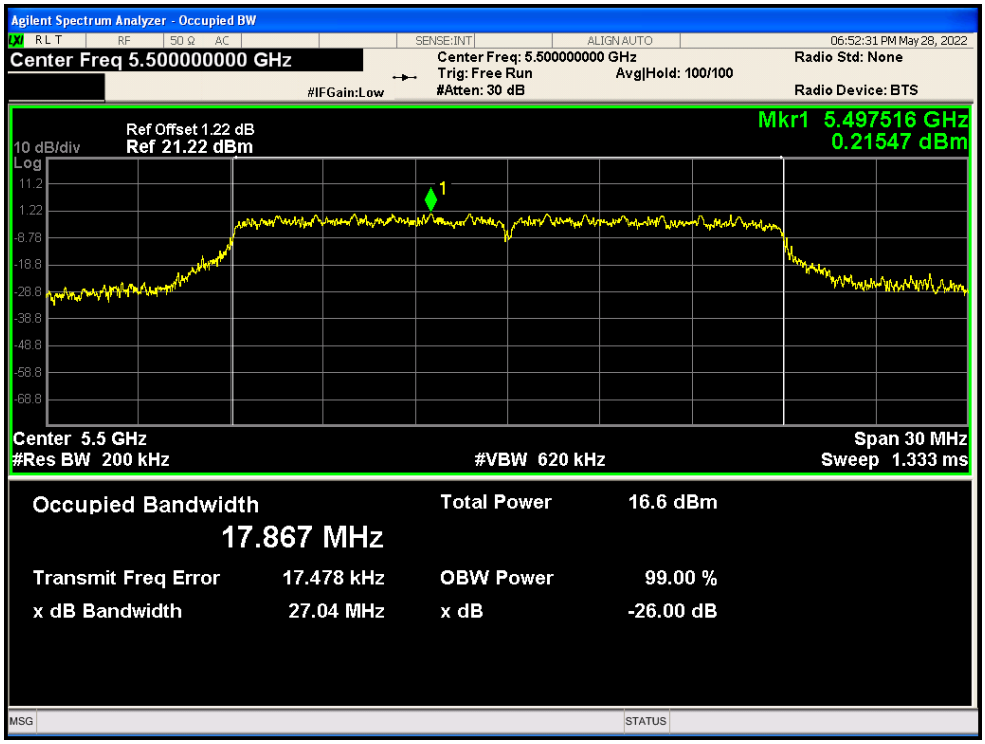
-26dB Bandwidth NVNT a 5600MHz Ant1



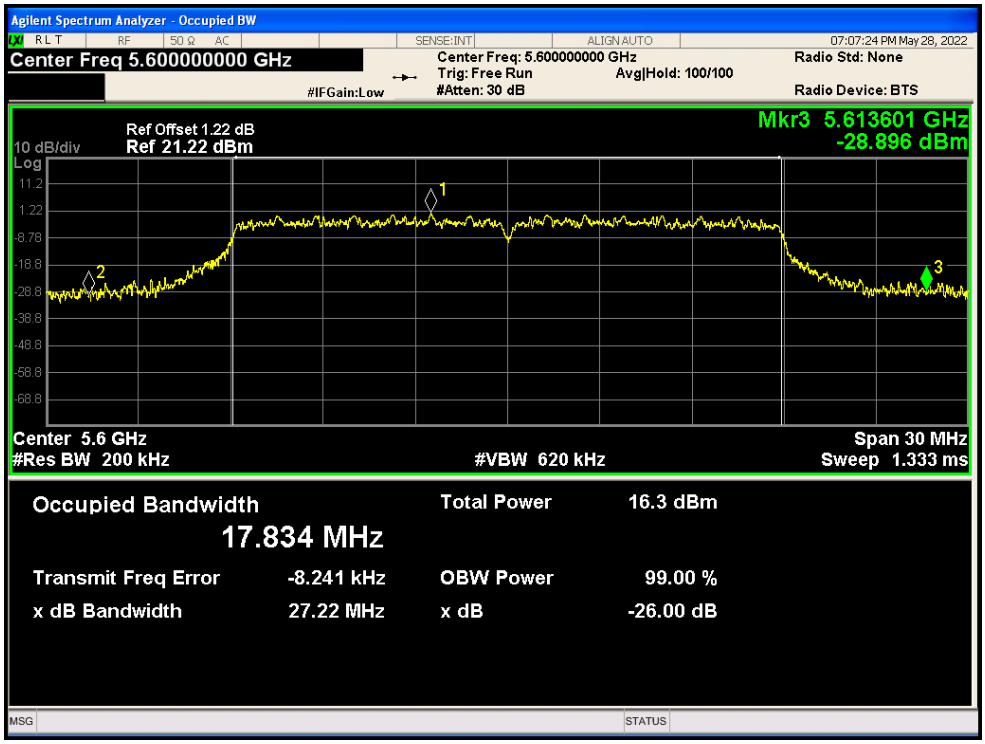
-26dB Bandwidth NVNT a 5700MHz Ant1



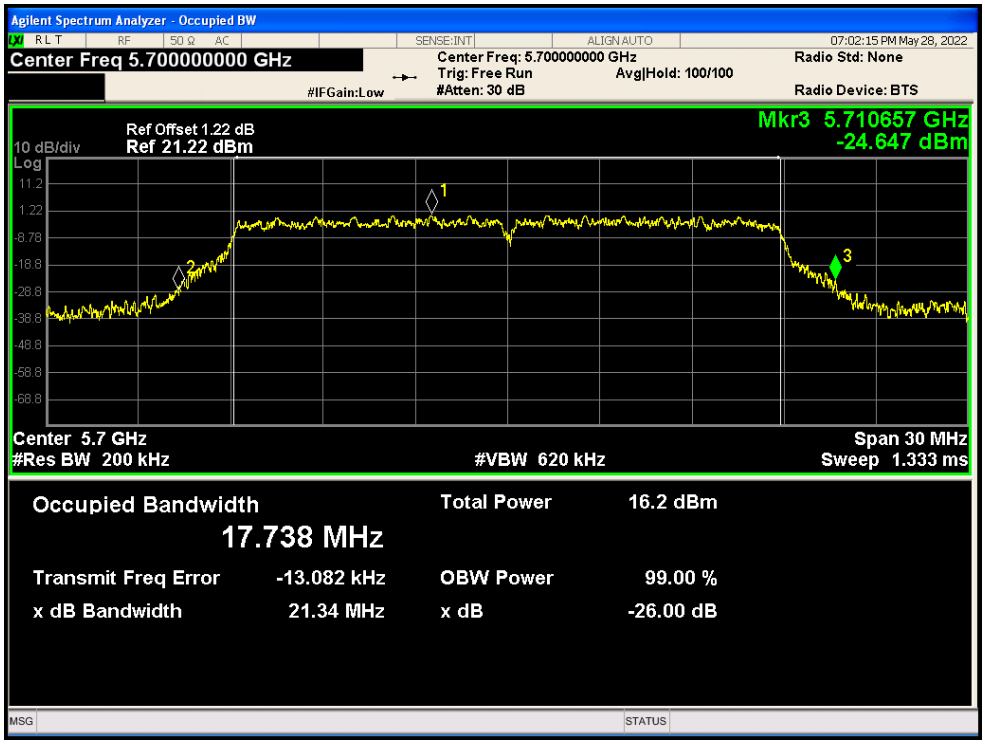
-26dB Bandwidth NVNT ac20 5500MHz Ant1



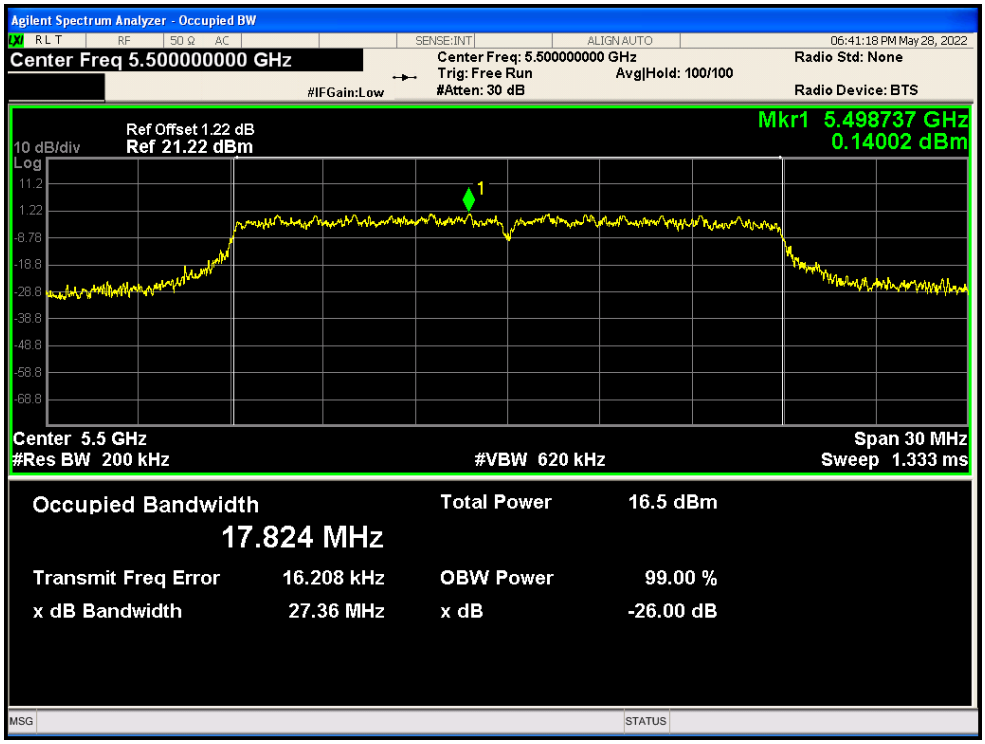
-26dB Bandwidth NVNT ac20 5600MHz Ant1



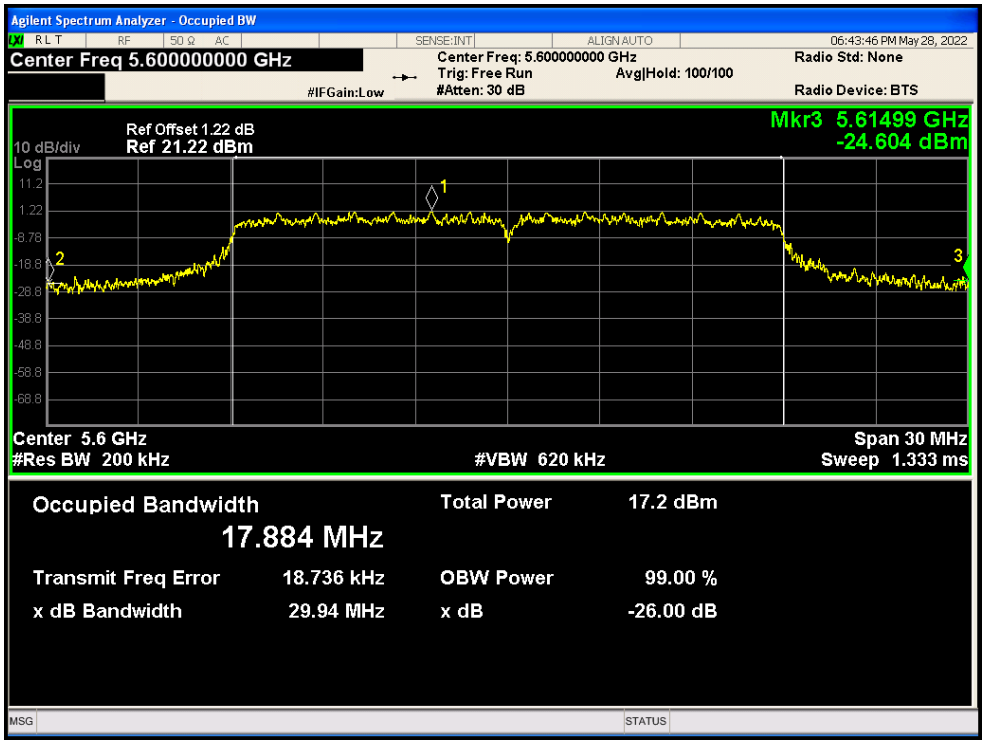
-26dB Bandwidth NVNT ac20 5700MHz Ant1



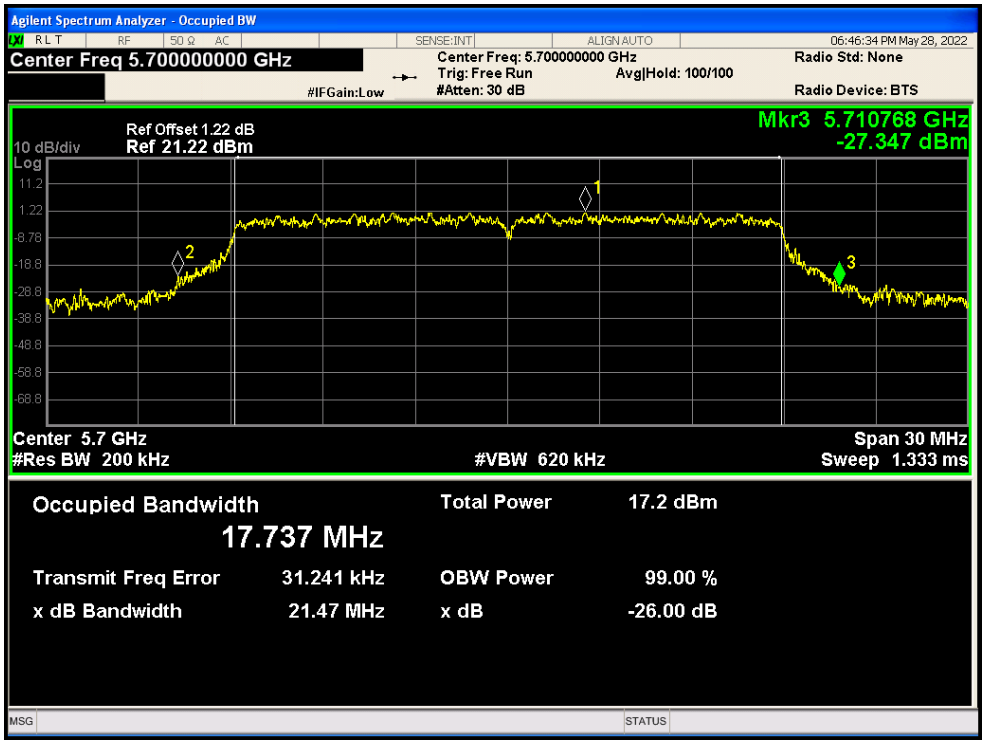
-26dB Bandwidth NVNT n20 5500MHz Ant1



-26dB Bandwidth NVNT n20 5600MHz Ant1



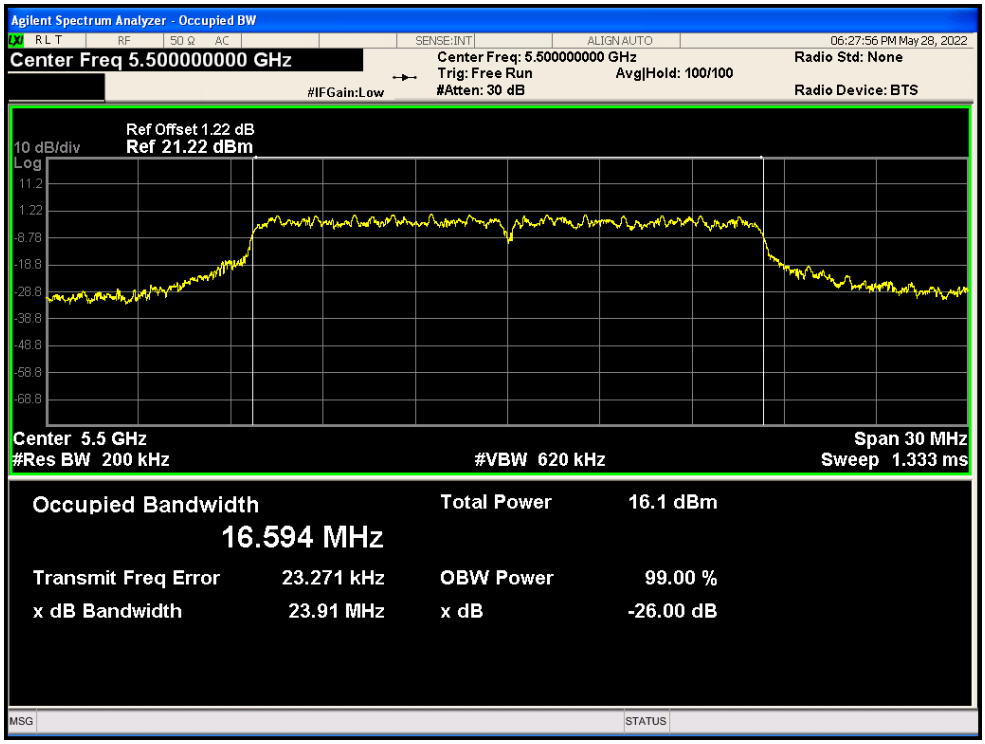
-26dB Bandwidth NVNT n20 5700MHz Ant1



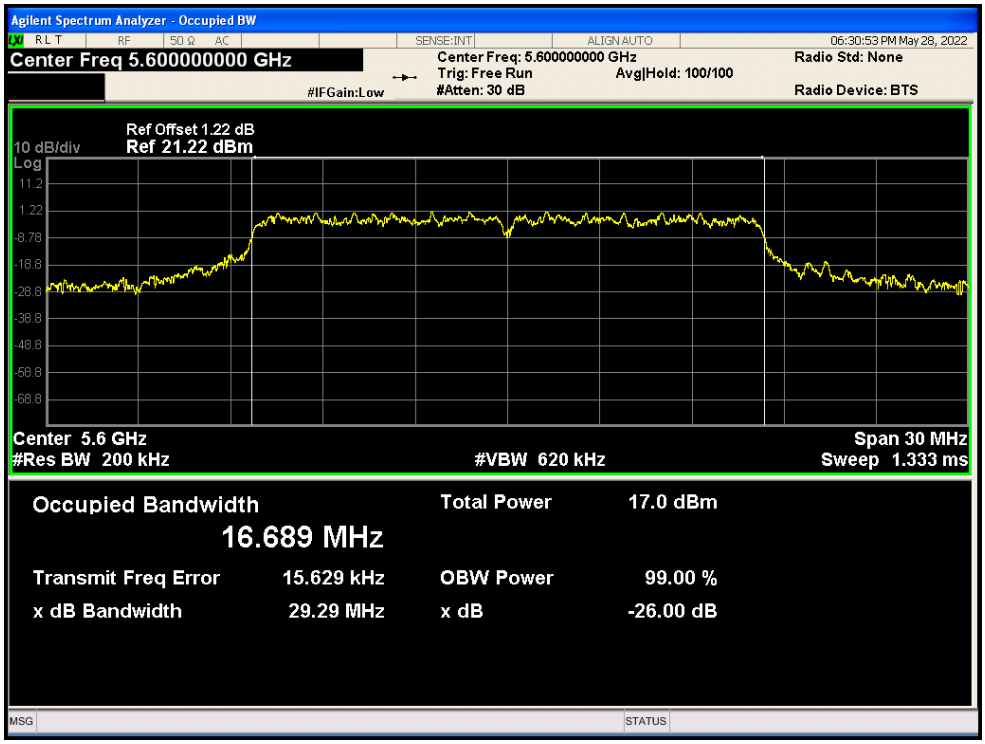
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.594
NVNT	a	5600	Ant1	16.689
NVNT	a	5700	Ant1	16.501
NVNT	ac20	5500	Ant1	17.873
NVNT	ac20	5600	Ant1	17.823
NVNT	ac20	5700	Ant1	17.761
NVNT	n20	5500	Ant1	17.811
NVNT	n20	5600	Ant1	17.861
NVNT	n20	5700	Ant1	17.75

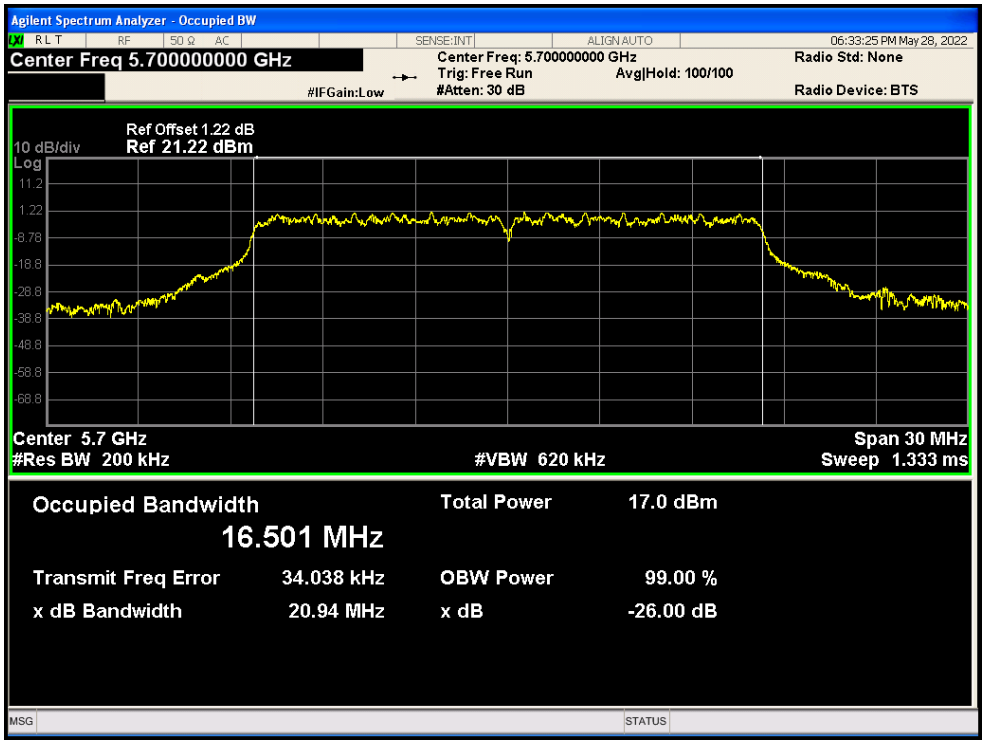
OBW NVNT a 5500MHz Ant1



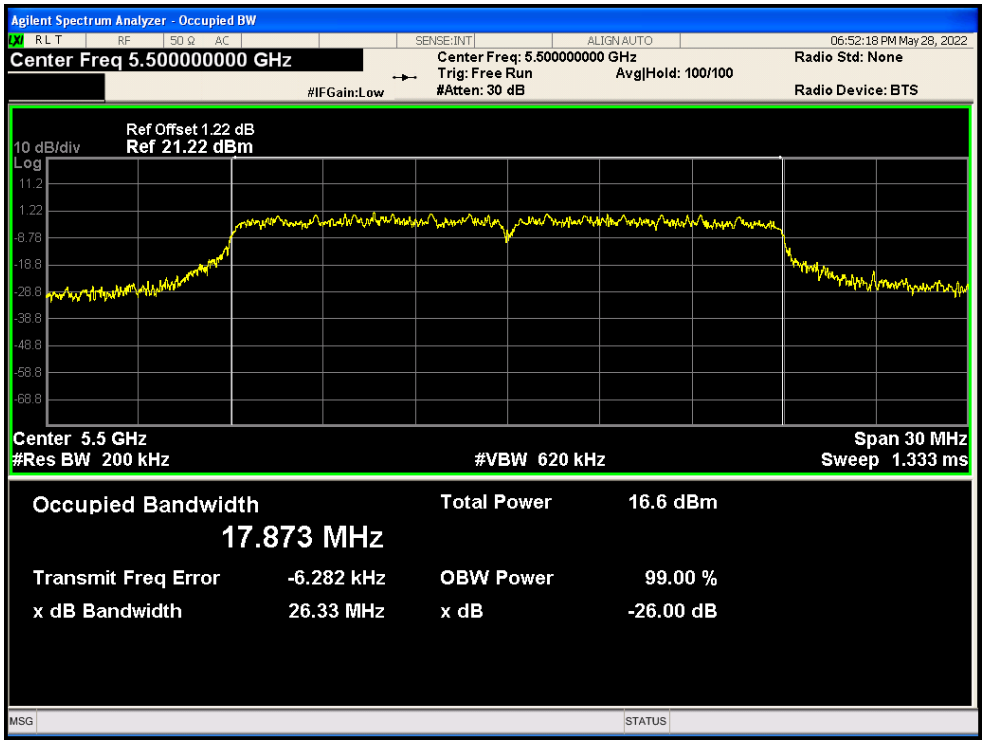
OBW NVNT a 5600MHz Ant1



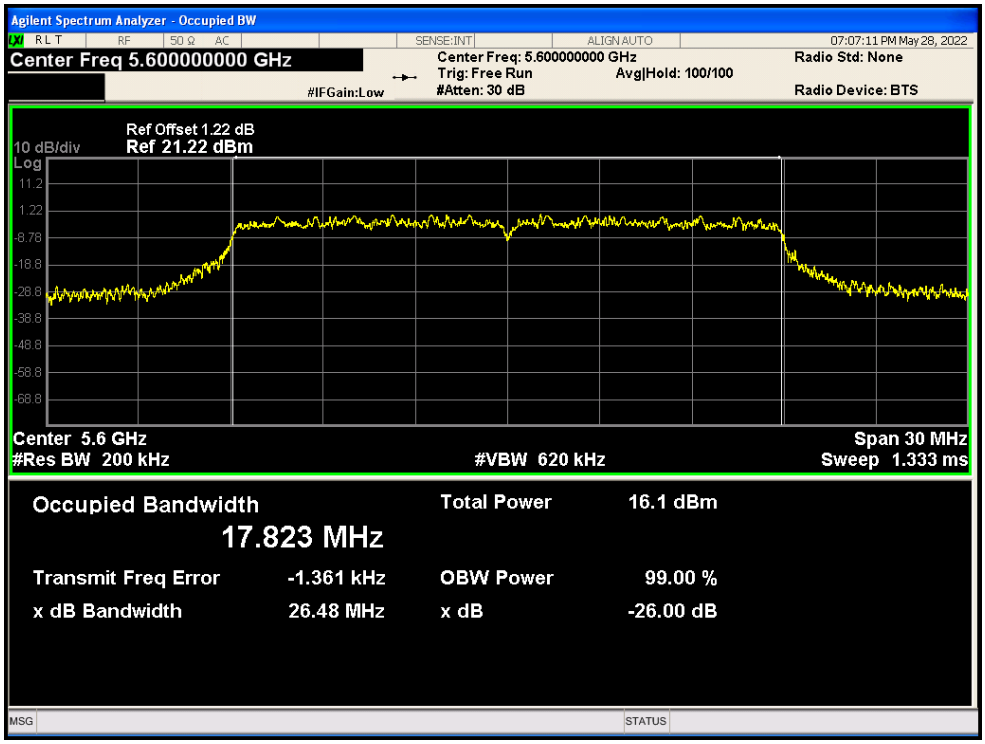
OBW NVNT a 5700MHz Ant1



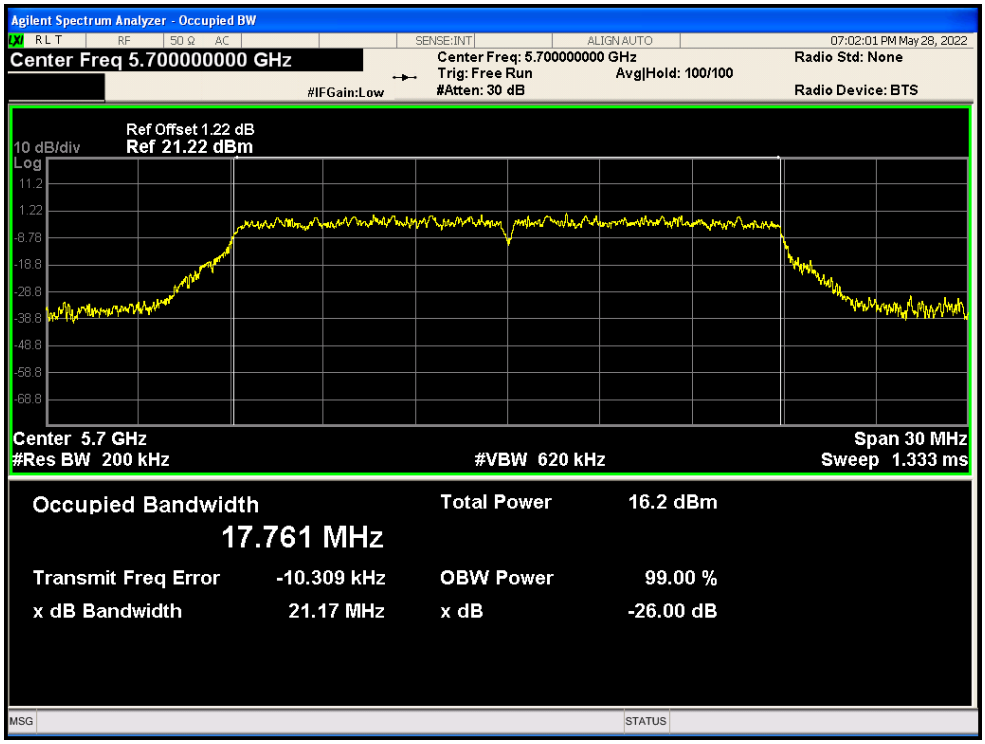
OBW NVNT ac20 5500MHz Ant1



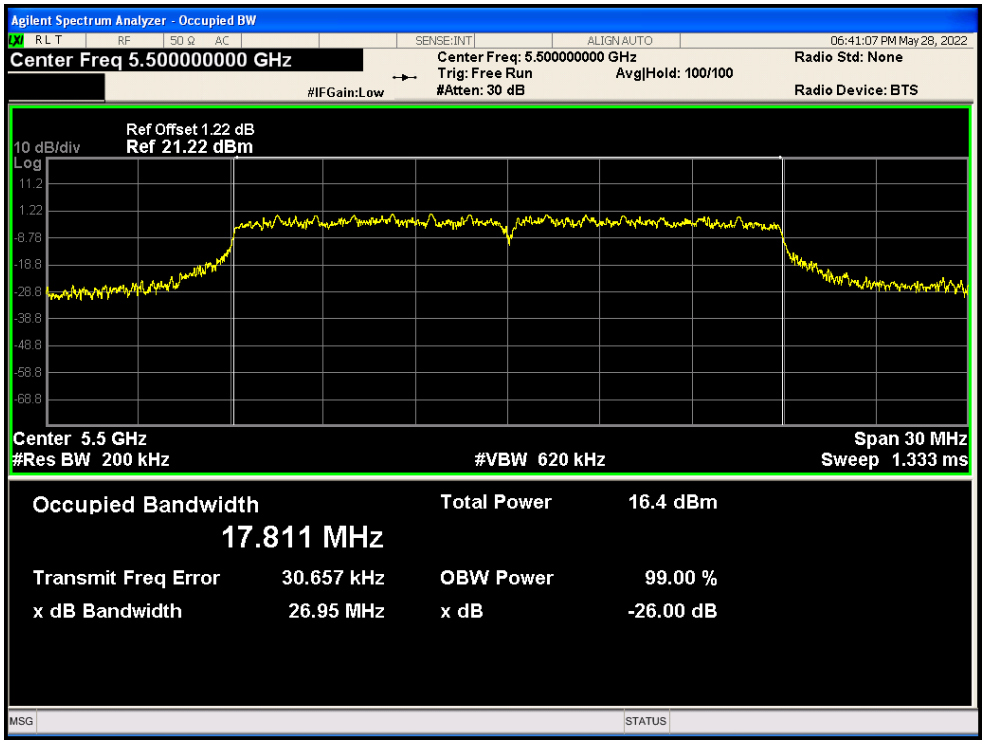
OBW NVNT ac20 5600MHz Ant1



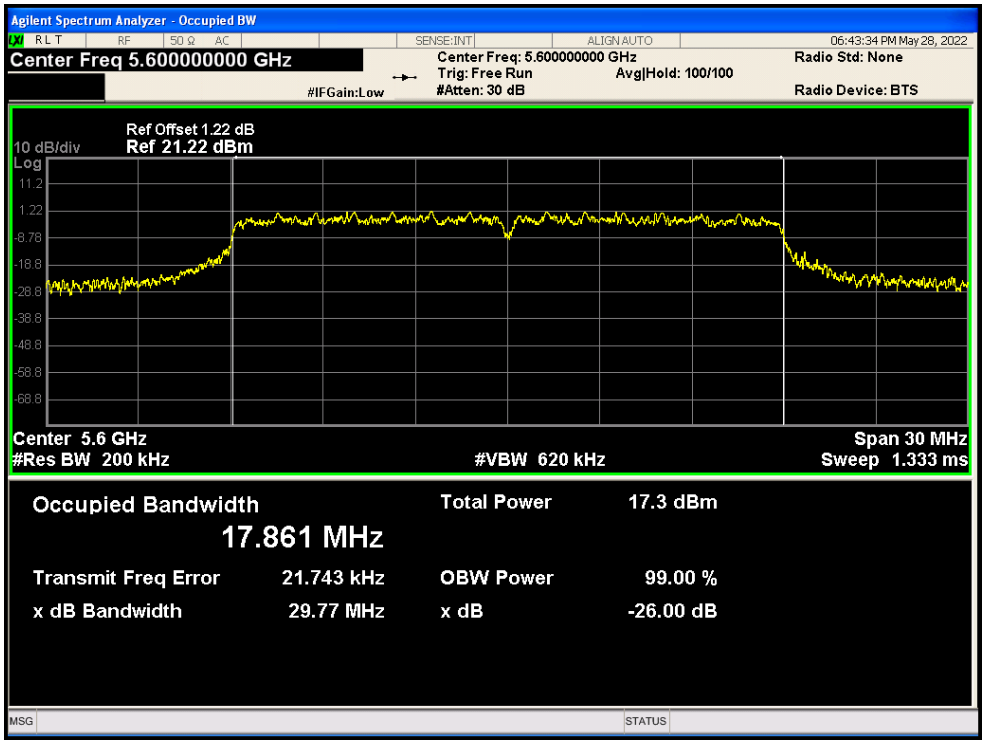
OBW NVNT ac20 5700MHz Ant1



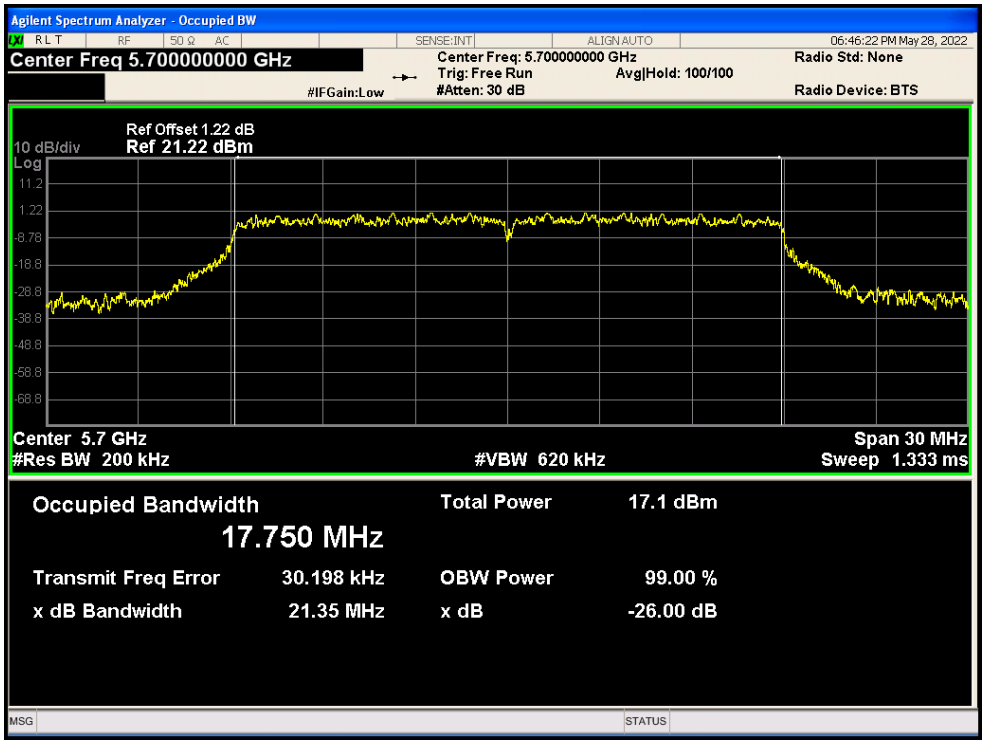
OBW NVNT n20 5500MHz Ant1



OBW NVNT n20 5600MHz Ant1



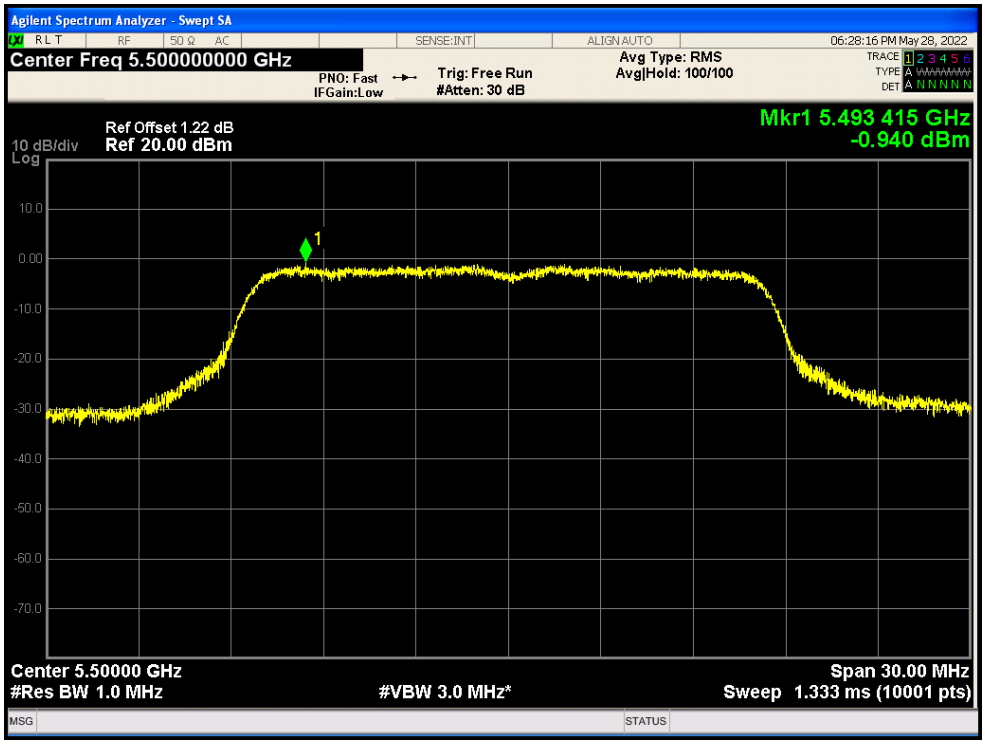
OBW NVNT n20 5700MHz Ant1



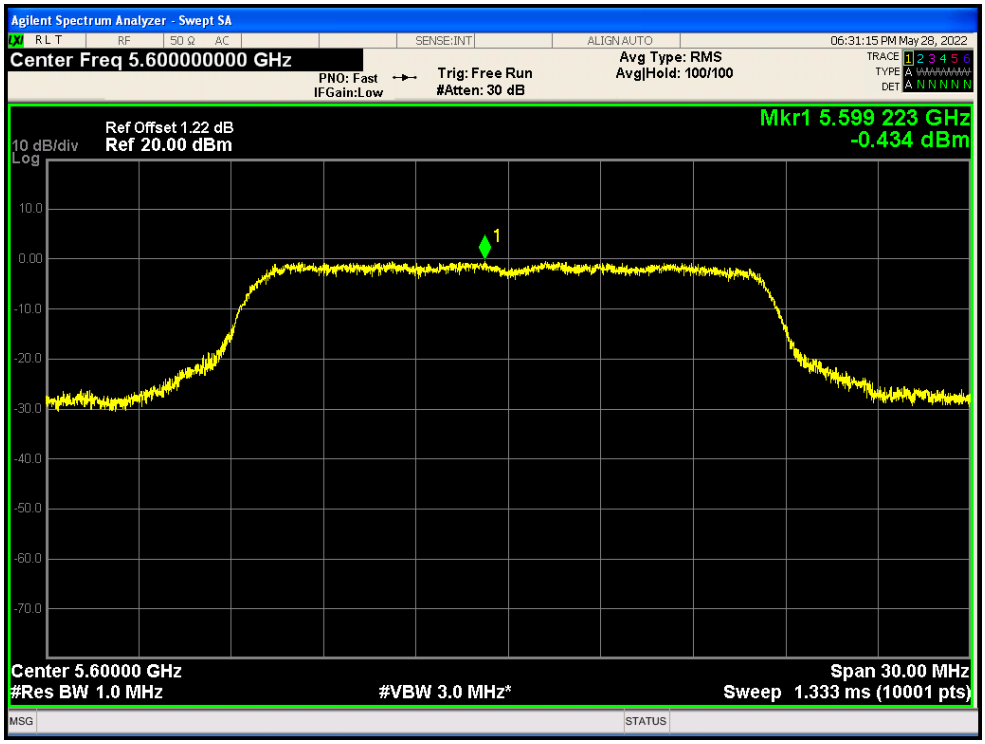
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	-0.94	11	Pass
NVNT	a	5600	Ant1	-0.434	11	Pass
NVNT	a	5700	Ant1	0.183	11	Pass
NVNT	ac20	5500	Ant1	-1.098	11	Pass
NVNT	ac20	5600	Ant1	-1.531	11	Pass
NVNT	ac20	5700	Ant1	-1.644	11	Pass
NVNT	n20	5500	Ant1	-1.158	11	Pass
NVNT	n20	5600	Ant1	-0.393	11	Pass
NVNT	n20	5700	Ant1	-0.353	10	Pass

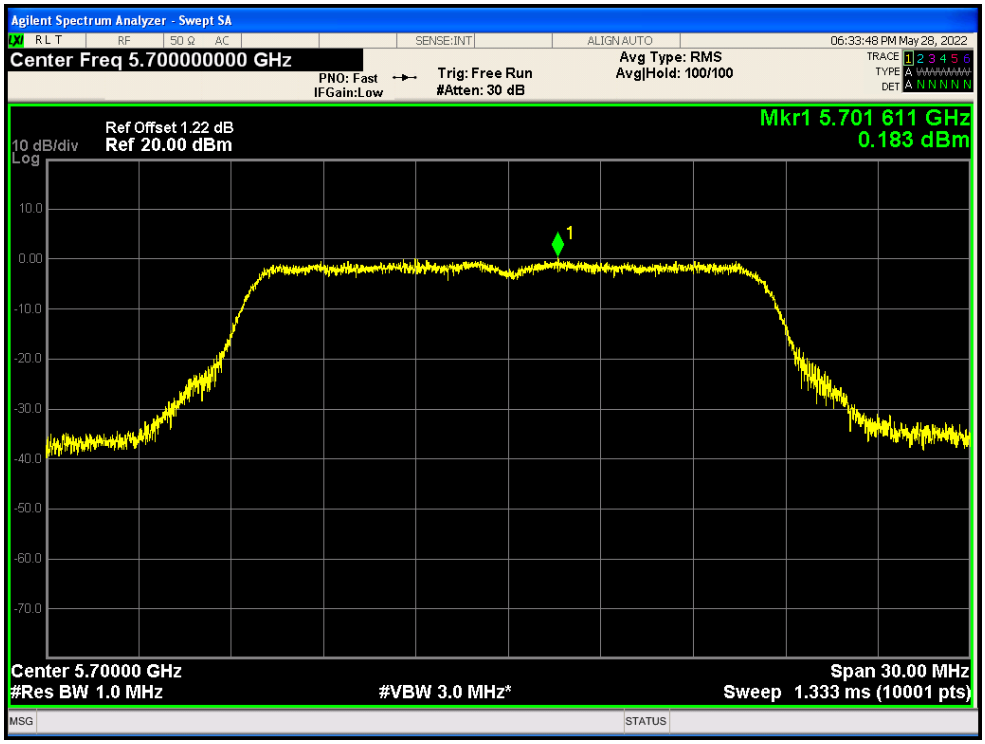
PSD NVNT a 5500MHz Ant1



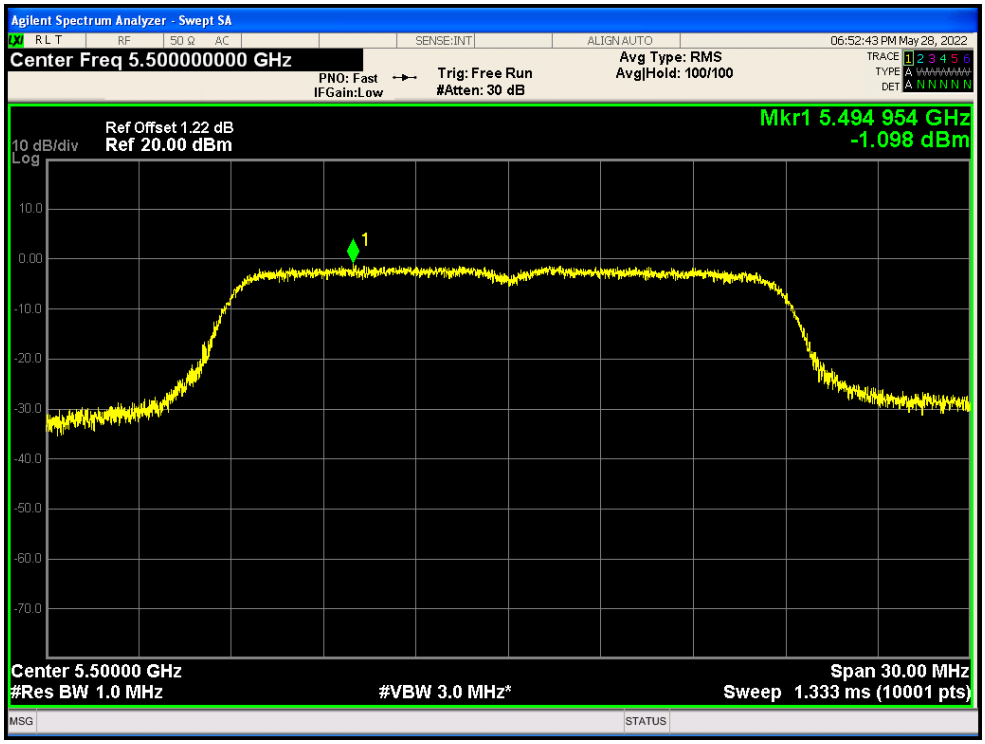
PSD NVNT a 5600MHz Ant1



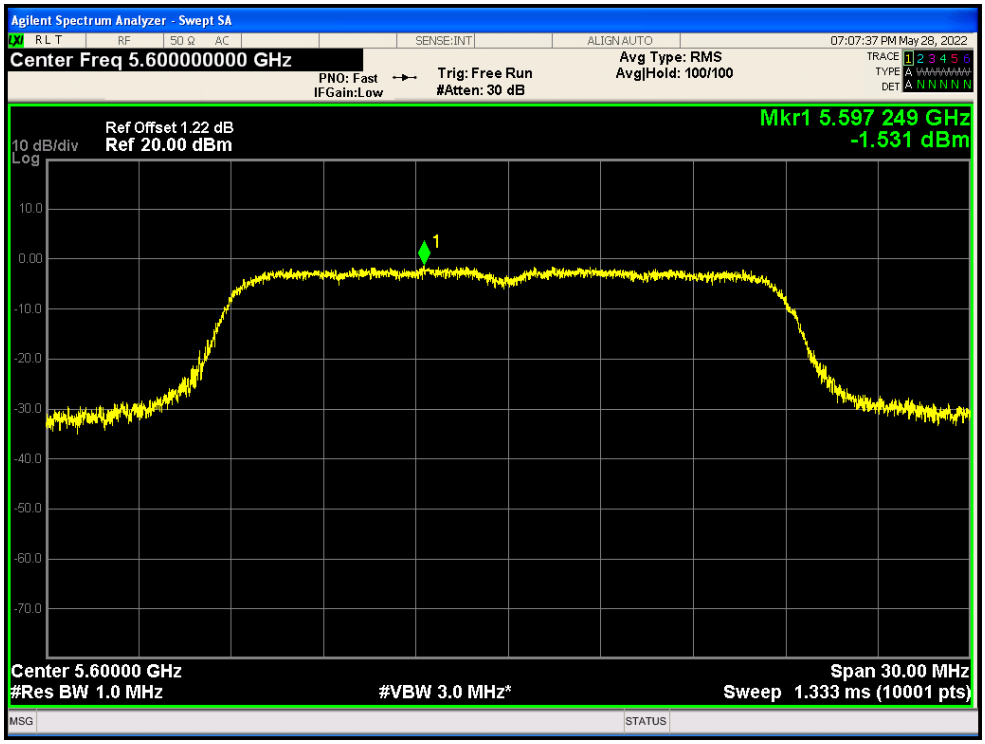
PSD NVNT a 5700MHz Ant1



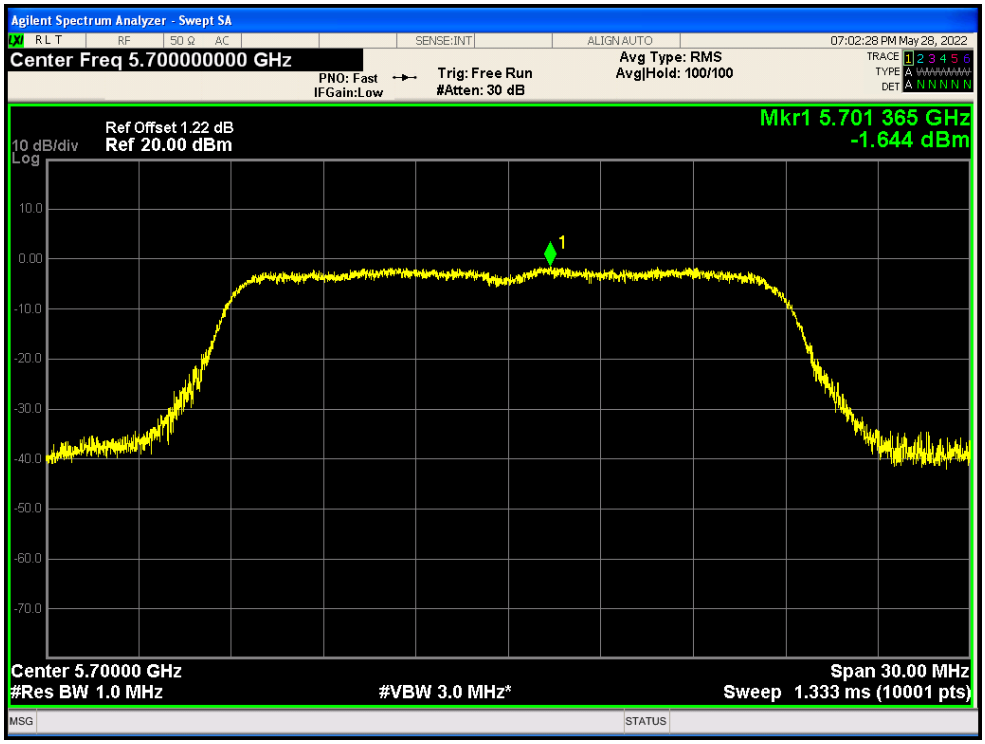
PSD NVNT ac20 5500MHz Ant1



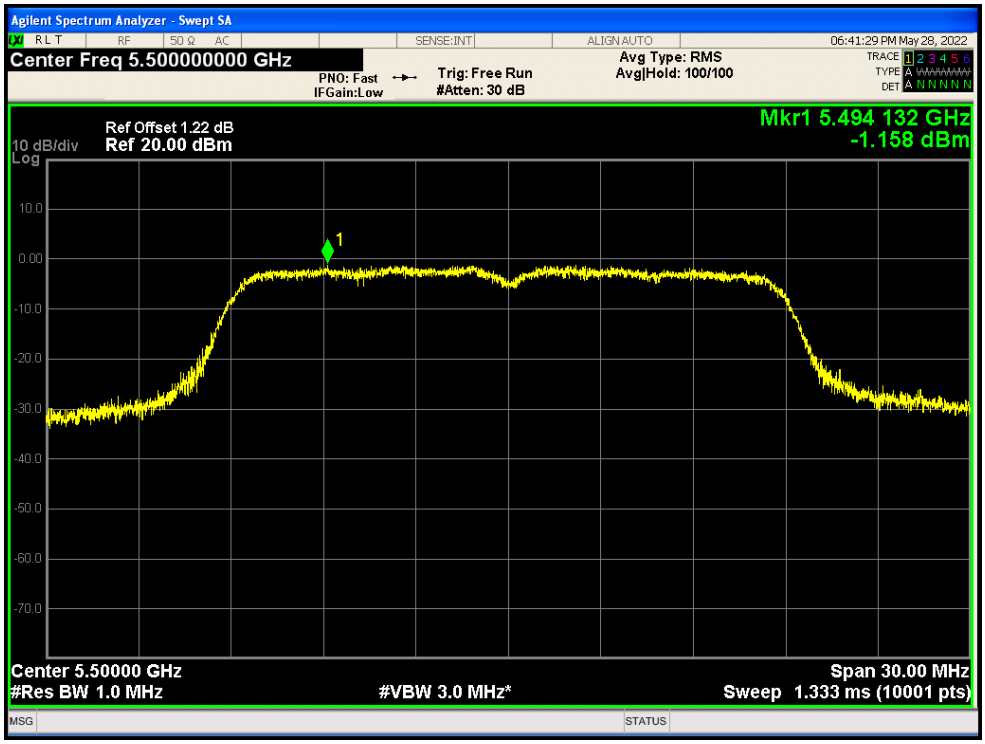
PSD NVNT ac20 5600MHz Ant1



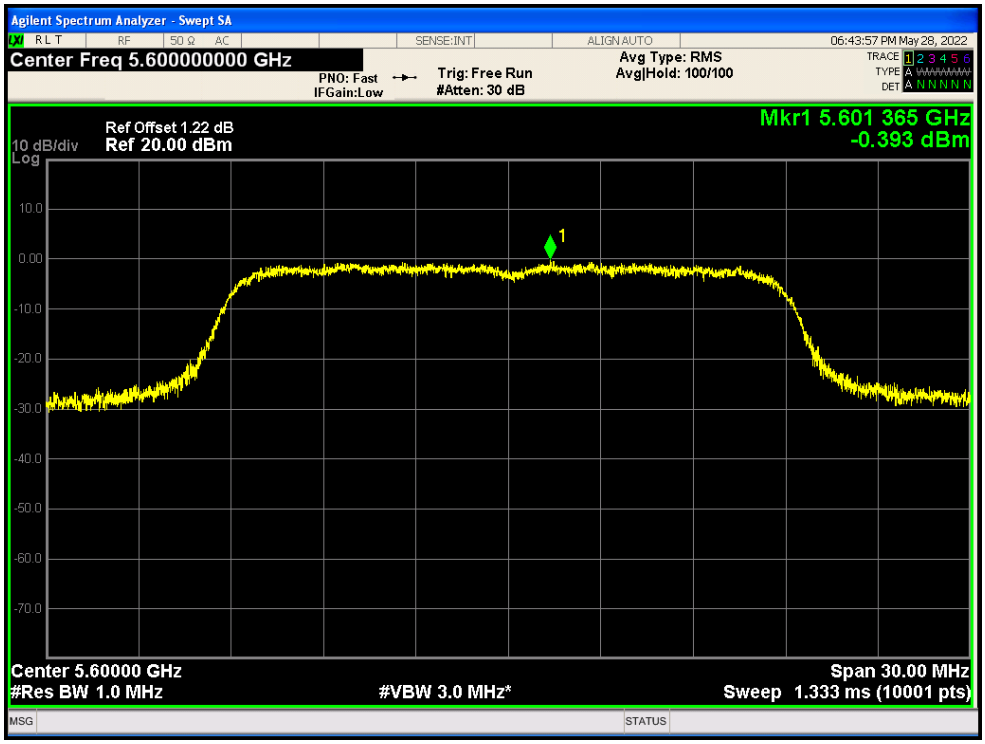
PSD NVNT ac20 5700MHz Ant1



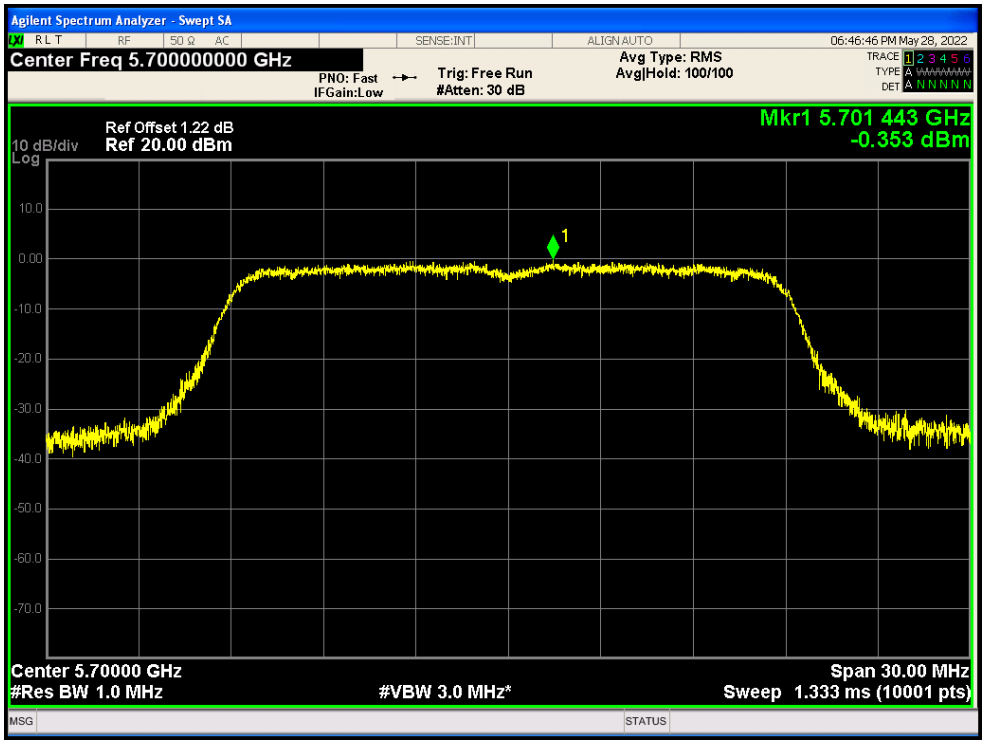
PSD NVNT n20 5500MHz Ant1



PSD NVNT n20 5600MHz Ant1



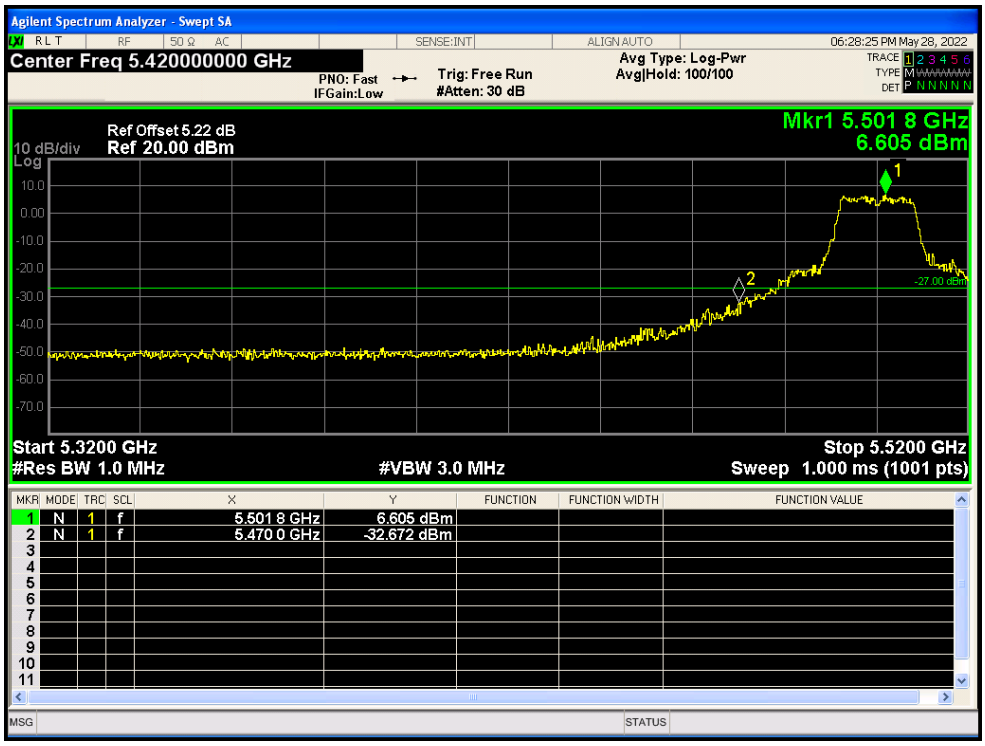
PSD NVNT n20 5700MHz Ant1



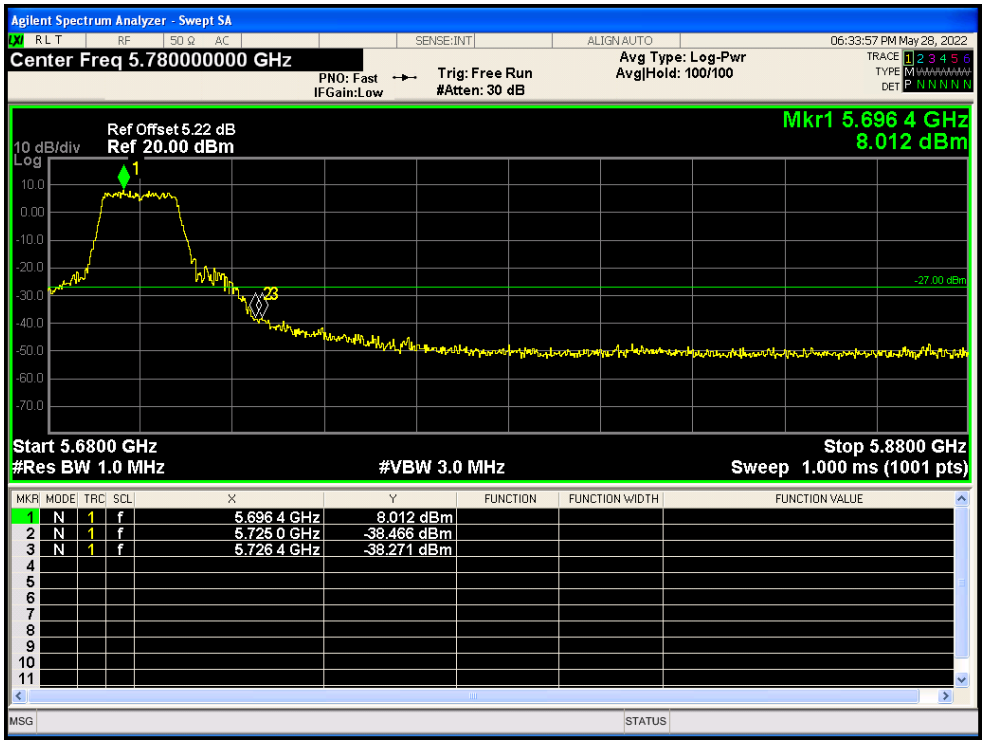
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	Ant1	-32.67	-27	Pass
NVNT	a	5700	Ant1	-38.27	-27	Pass
NVNT	ac20	5500	Ant1	-29.65	-27	Pass
NVNT	ac20	5700	Ant1	-35.1	-27	Pass
NVNT	n20	5500	Ant1	-31.57	-27	Pass
NVNT	n20	5700	Ant1	-33.64	-27	Pass

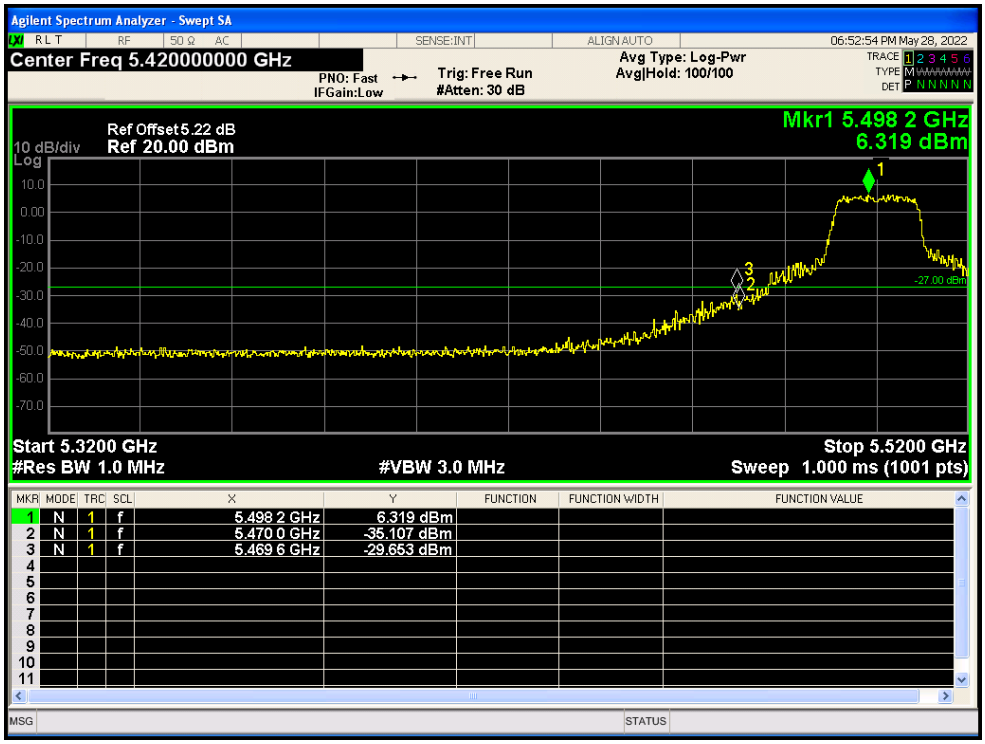
Band Edge NVNT a 5500MHz Low Ant1



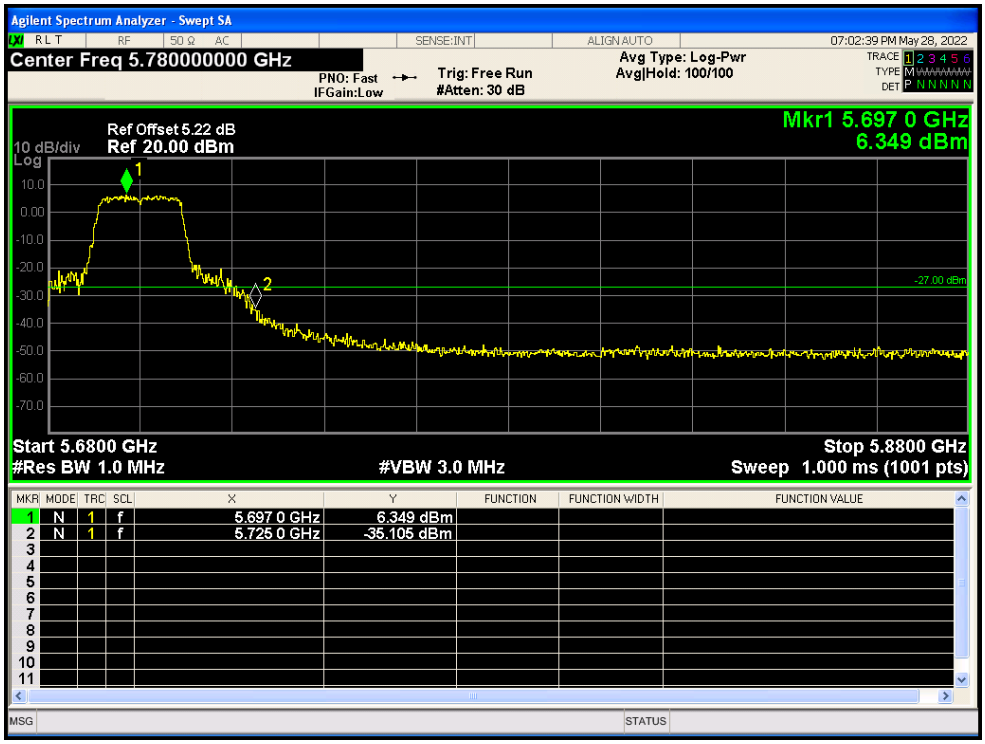
Band Edge NVNT a 5700MHz High Ant1



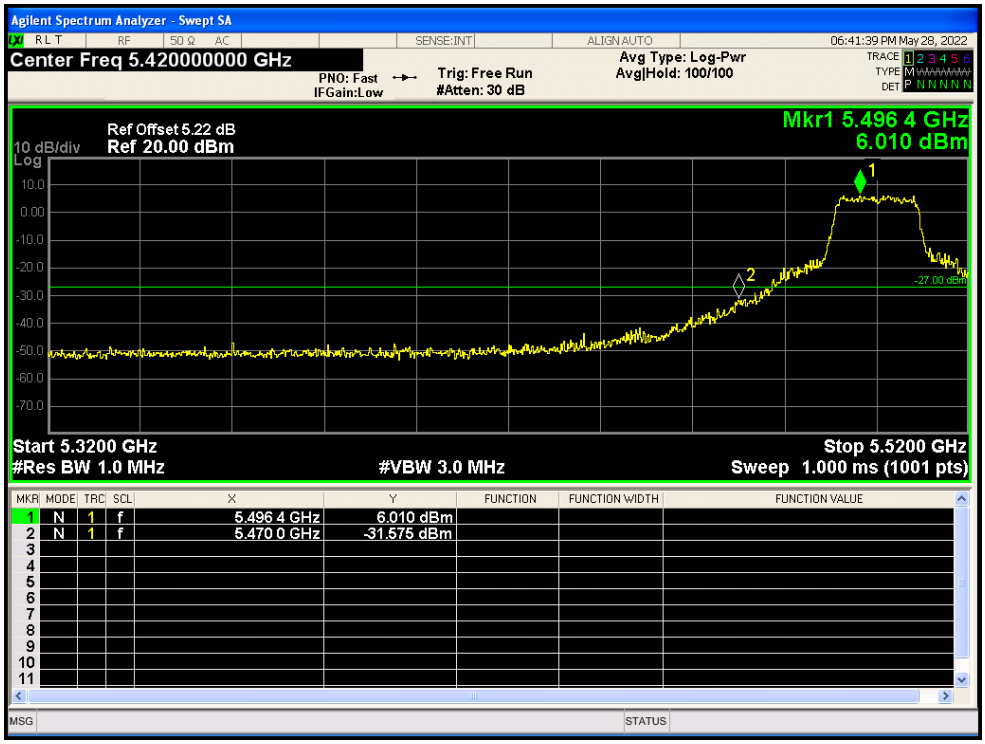
Band Edge NVNT ac20 5500MHz Low Ant1



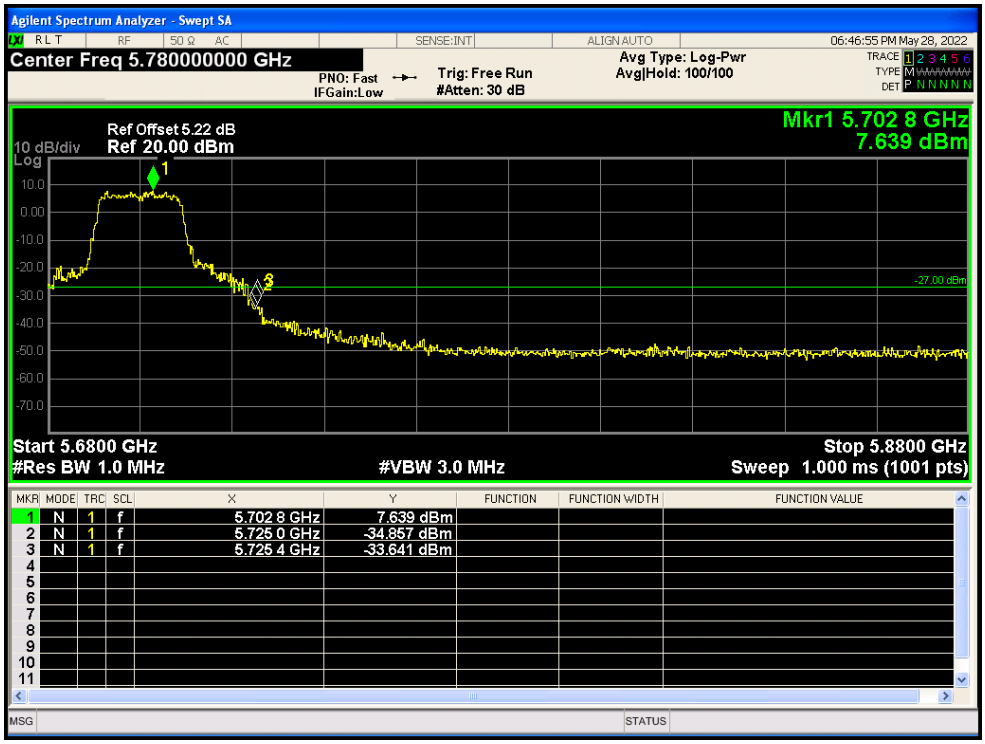
Band Edge NVNT ac20 5700MHz High Ant1



Band Edge NVNT n20 5500MHz Low Ant1



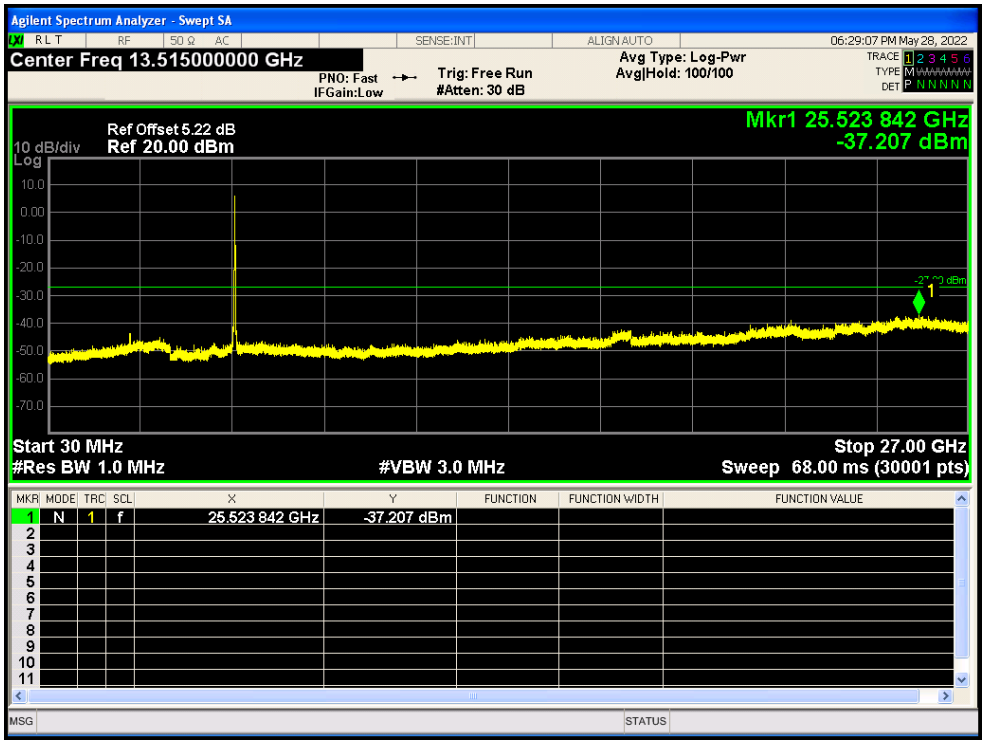
Band Edge NVNT n20 5700MHz High Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.780000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
06:46:55 PM May 28, 2022
Ref Offset 5.22 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.702 8 GHz
7.639 dBm
-27.00 dBm
Start 5.6800 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.8800 GHz
Sweep 1.000 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 5.702 8 GHz 7.639 dBm
2 N 1 f 5.725 0 GHz -34.857 dBm
3 N 1 f 5.725 4 GHz -33.641 dBm

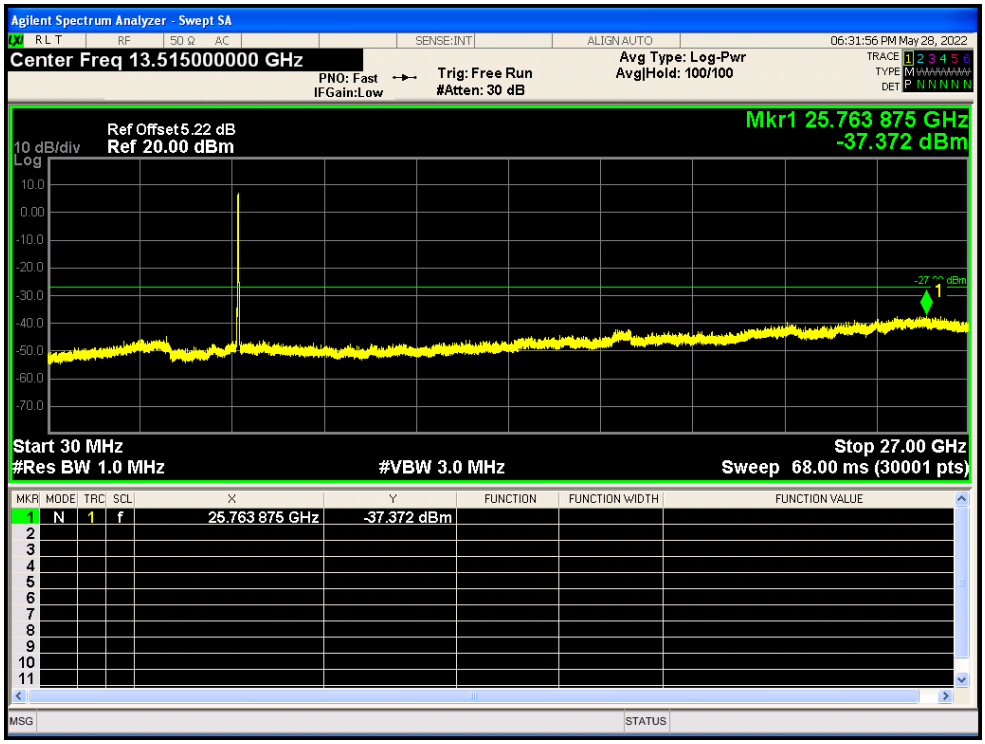
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	Ant1	-37.2	-27	Pass
NVNT	a	5600	Ant1	-37.37	-27	Pass
NVNT	a	5700	Ant1	-36.96	-27	Pass
NVNT	ac20	5500	Ant1	-36.49	-27	Pass
NVNT	ac20	5600	Ant1	-35.95	-27	Pass
NVNT	ac20	5700	Ant1	-37.53	-27	Pass
NVNT	n20	5500	Ant1	-37.02	-27	Pass
NVNT	n20	5600	Ant1	-37.07	-27	Pass
NVNT	n20	5700	Ant1	-36.18	-27	Pass

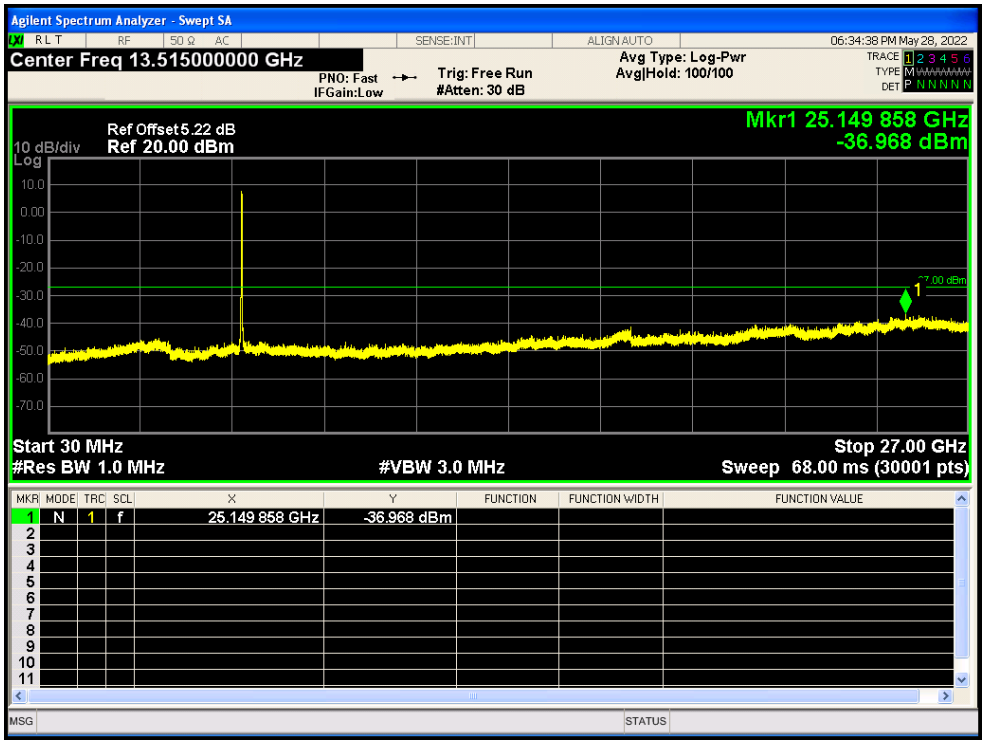
Tx. Spurious NVNT a 5500MHz Ant1 Emission



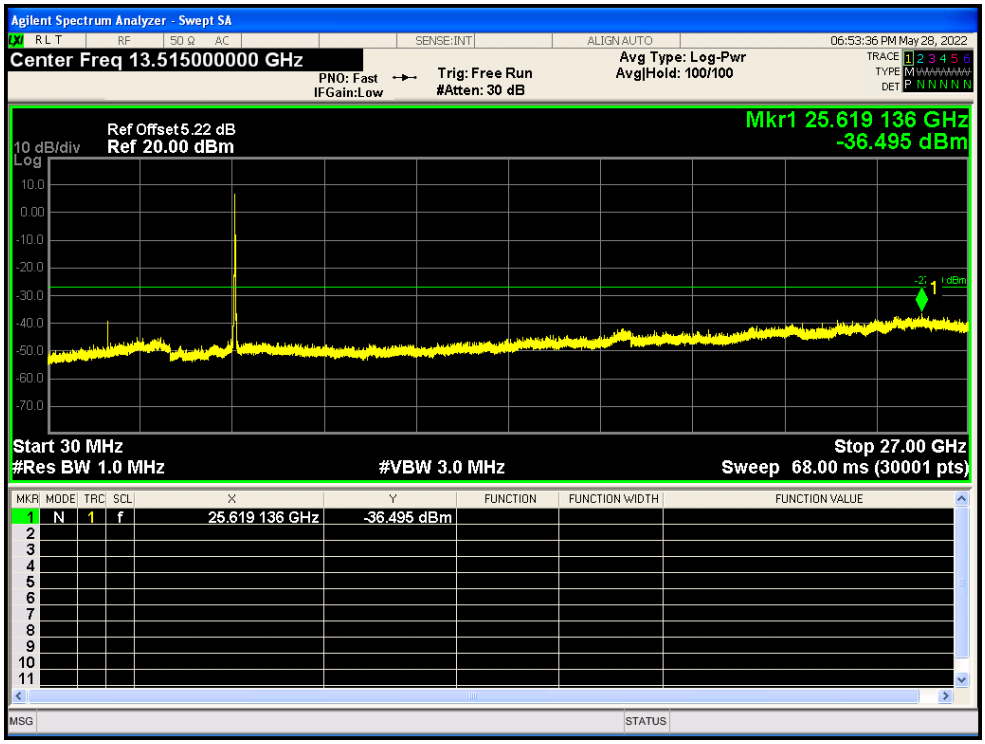
Tx. Spurious NVNT a 5600MHz Ant1 Emission



Tx. Spurious NVNT a 5700MHz Ant1 Emission



Tx. Spurious NVNT ac20 5500MHz Ant1 Emission



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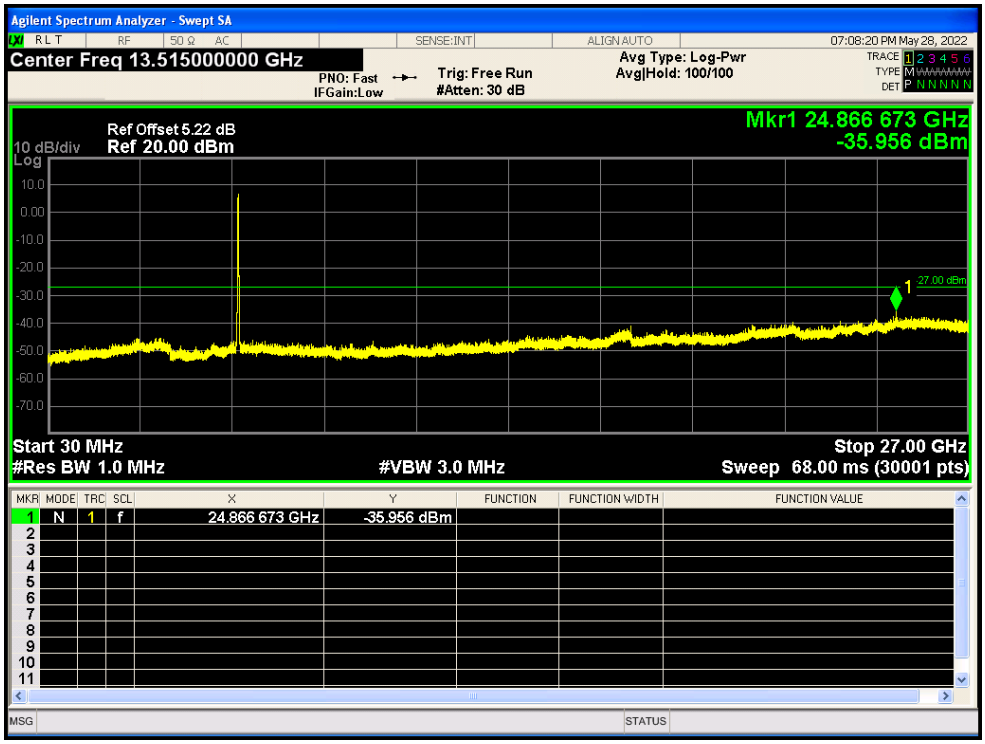
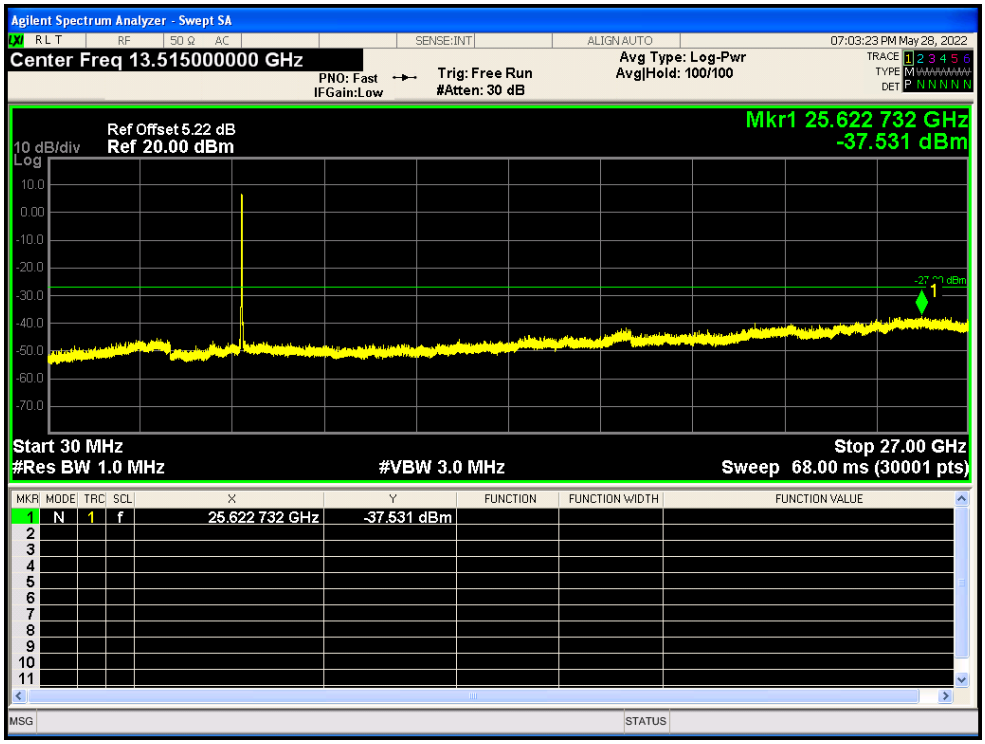
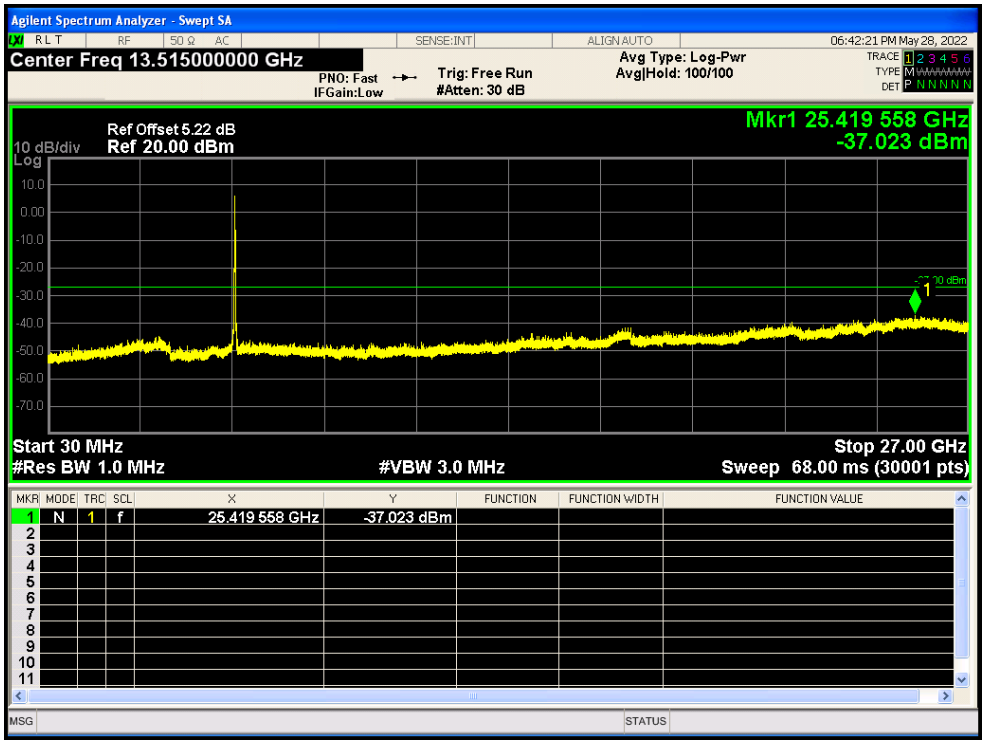


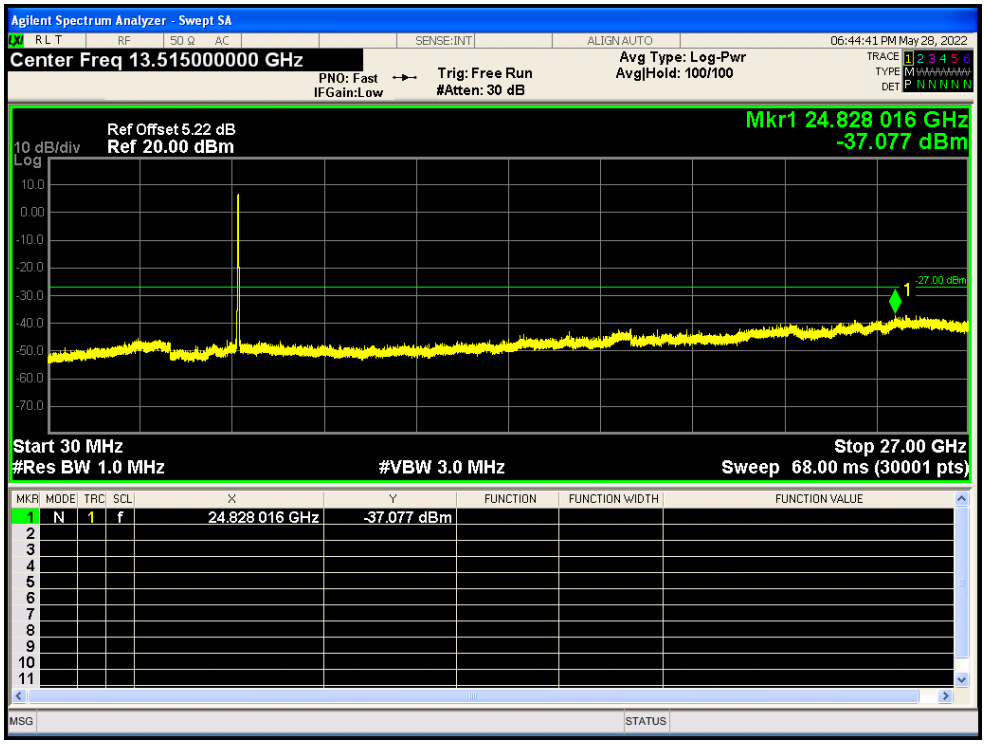
Tx. Spurious NVNT ac20 5700MHz Ant1 Emission



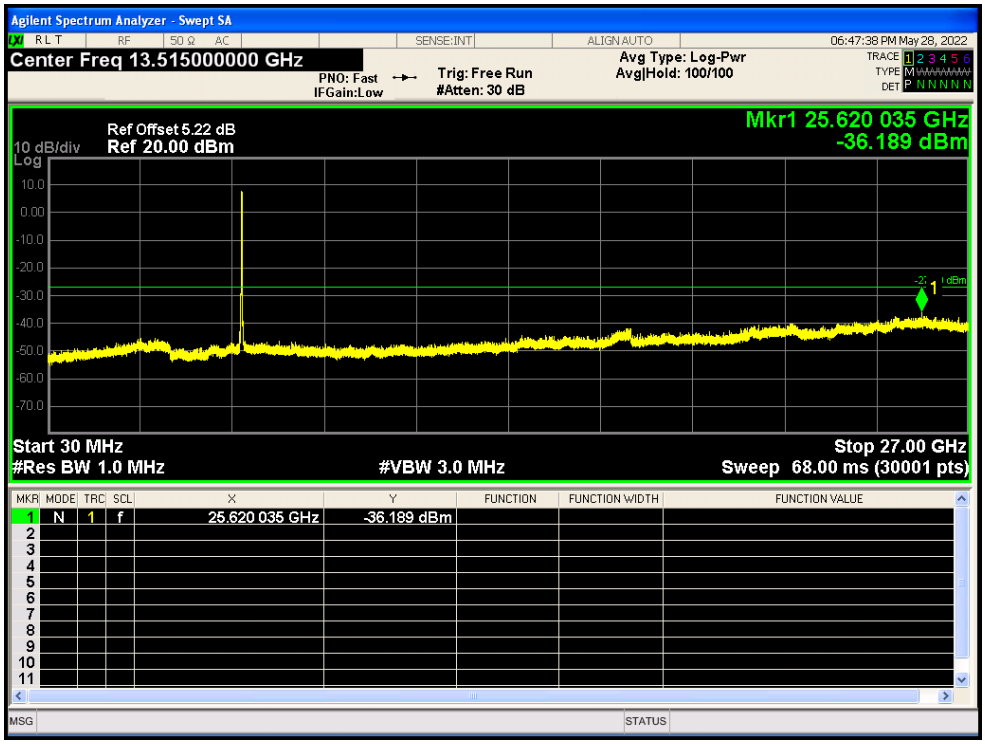
Tx. Spurious NVNT n20 5500MHz Ant1 Emission



Tx. Spurious NVNT n20 5600MHz Ant1 Emission



Tx. Spurious NVNT n20 5700MHz Ant1 Emission

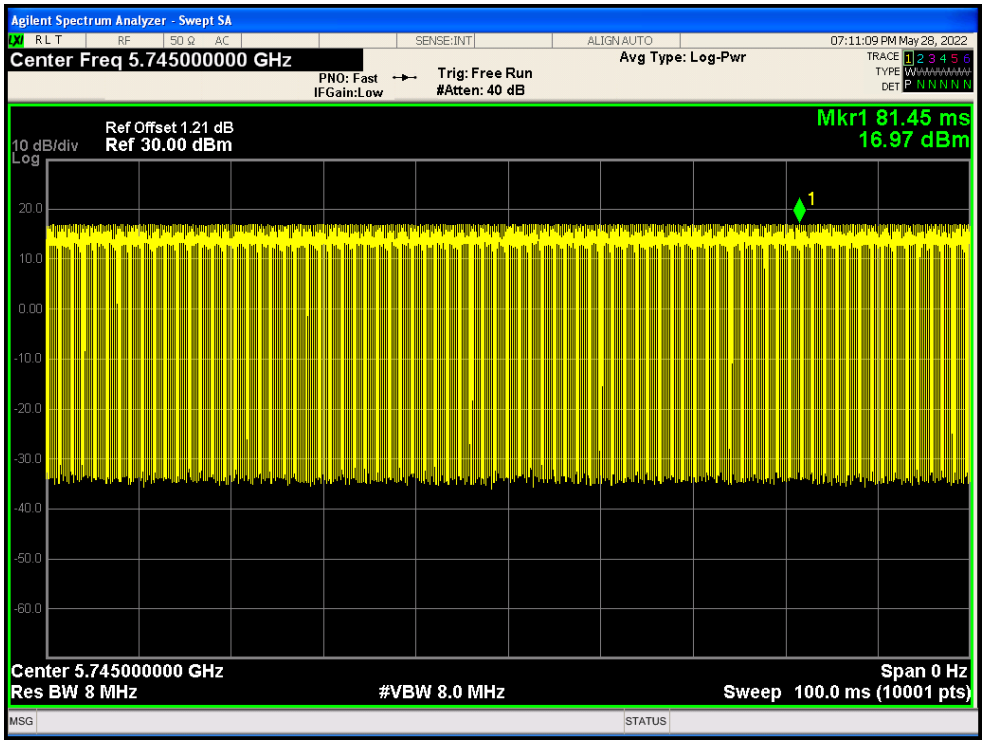


5.8G WIFI:

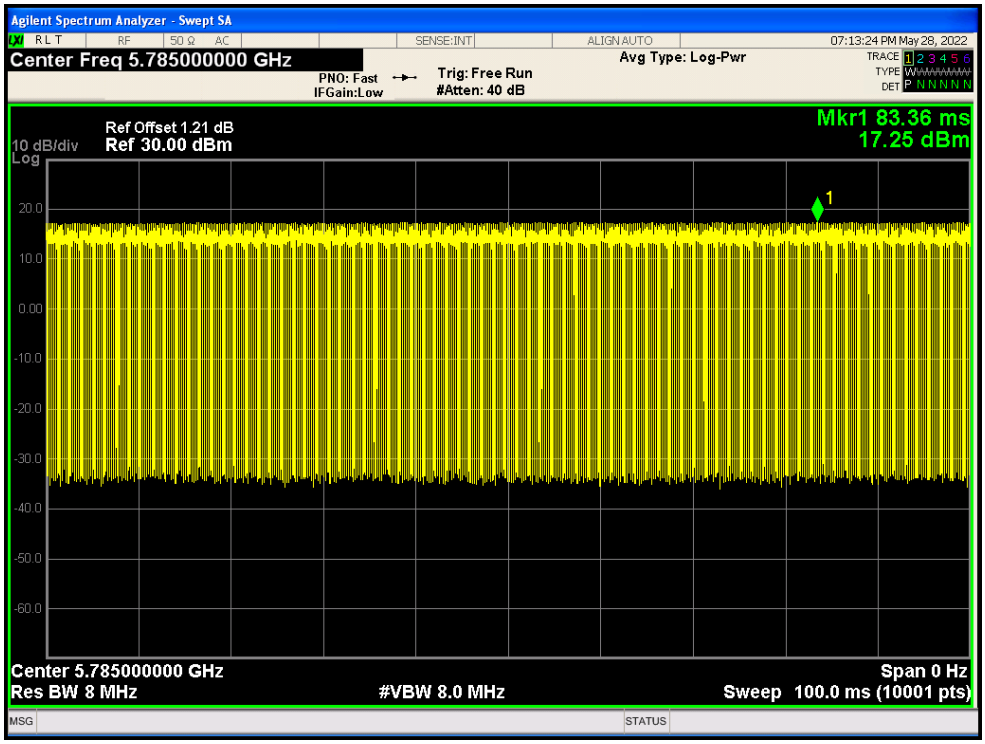
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5745	Ant1	83.47	0.78
NVNT	a	5785	Ant1	83.61	0.78
NVNT	a	5825	Ant1	83.48	0.78
NVNT	ac20	5745	Ant1	82.55	0.83
NVNT	ac20	5785	Ant1	82.55	0.83
NVNT	ac20	5825	Ant1	82.54	0.83
NVNT	n20	5745	Ant1	82.23	0.85
NVNT	n20	5785	Ant1	82.18	0.85
NVNT	n20	5825	Ant1	82.29	0.85

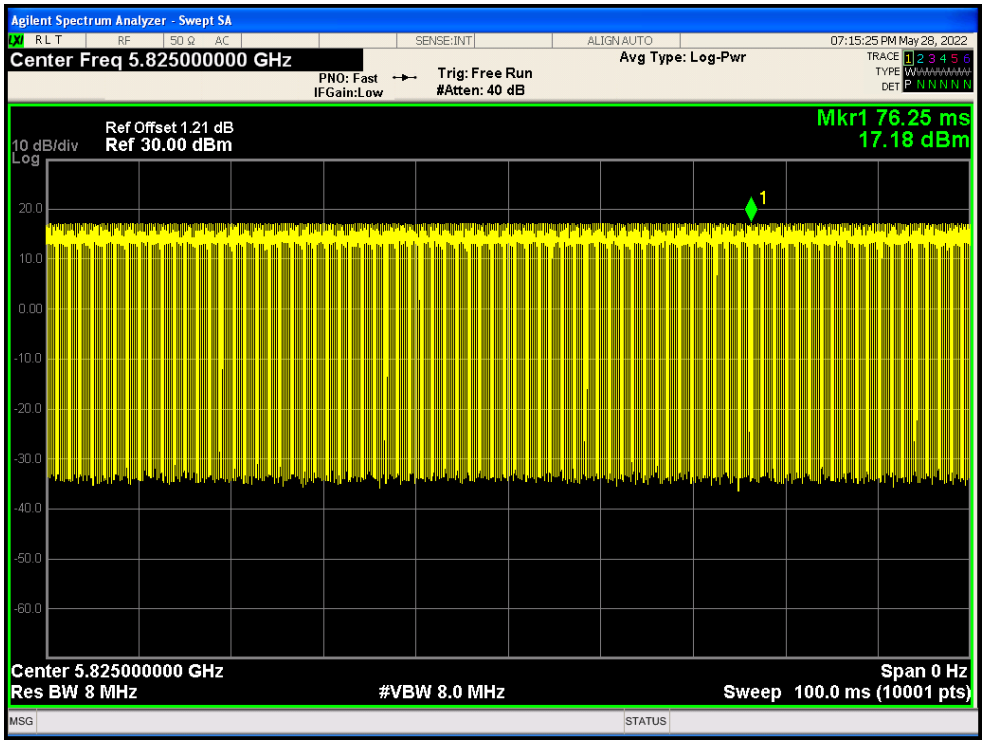
Duty Cycle NVNT a 5745MHz Ant1



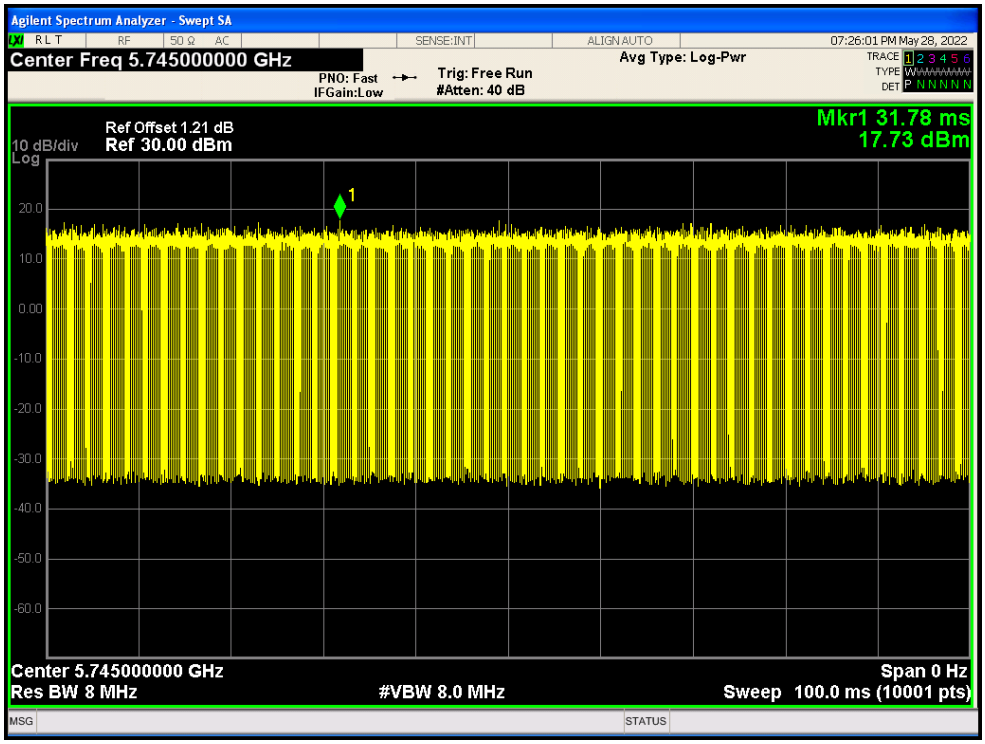
Duty Cycle NVNT a 5785MHz Ant1



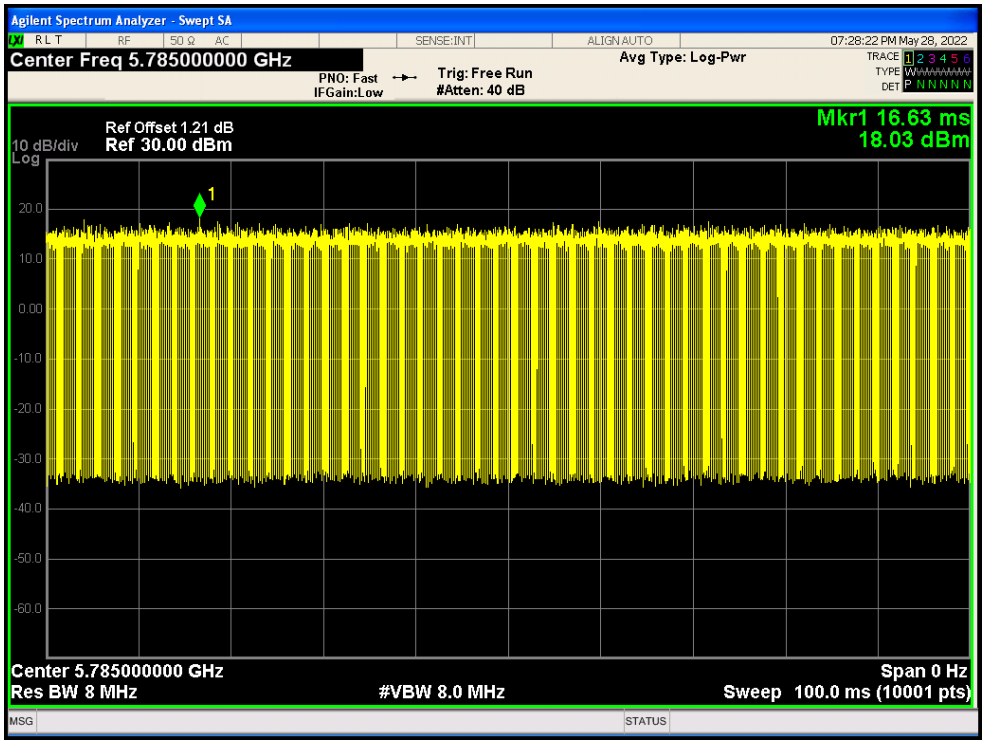
Duty Cycle NVNT a 5825MHz Ant1



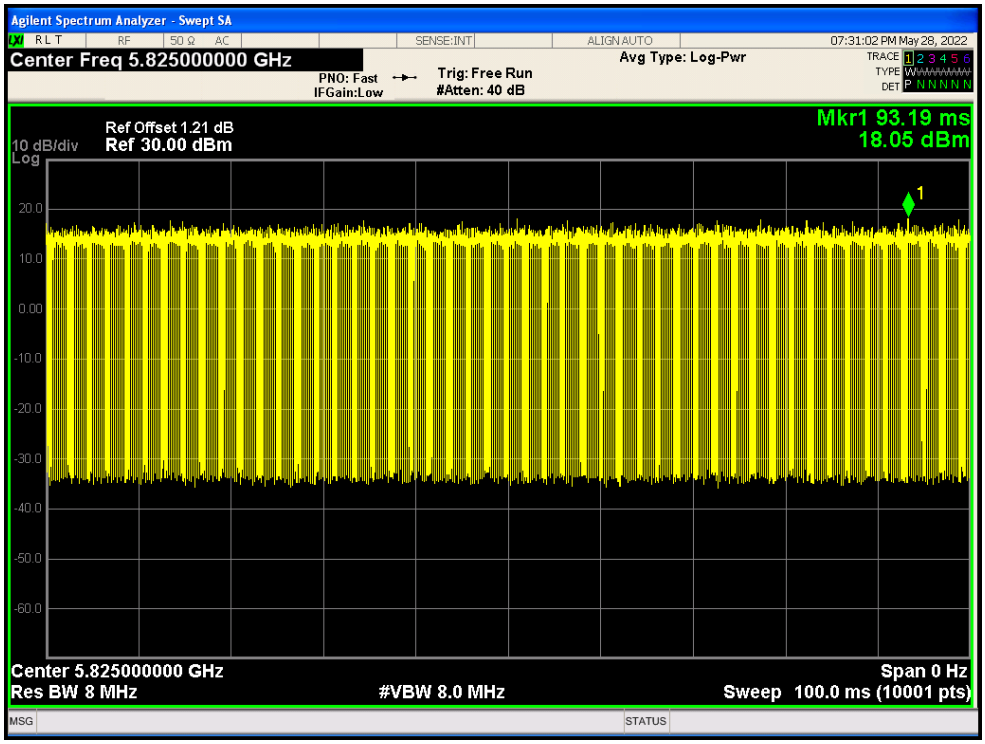
Duty Cycle NVNT ac20 5745MHz Ant1



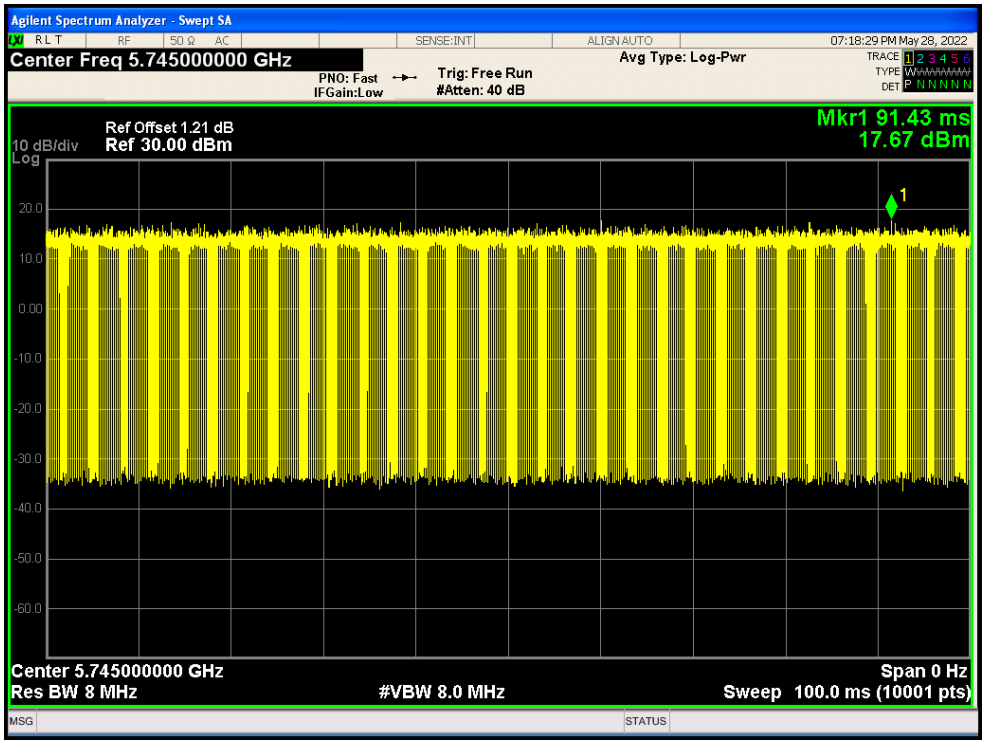
Duty Cycle NVNT ac20 5785MHz Ant1



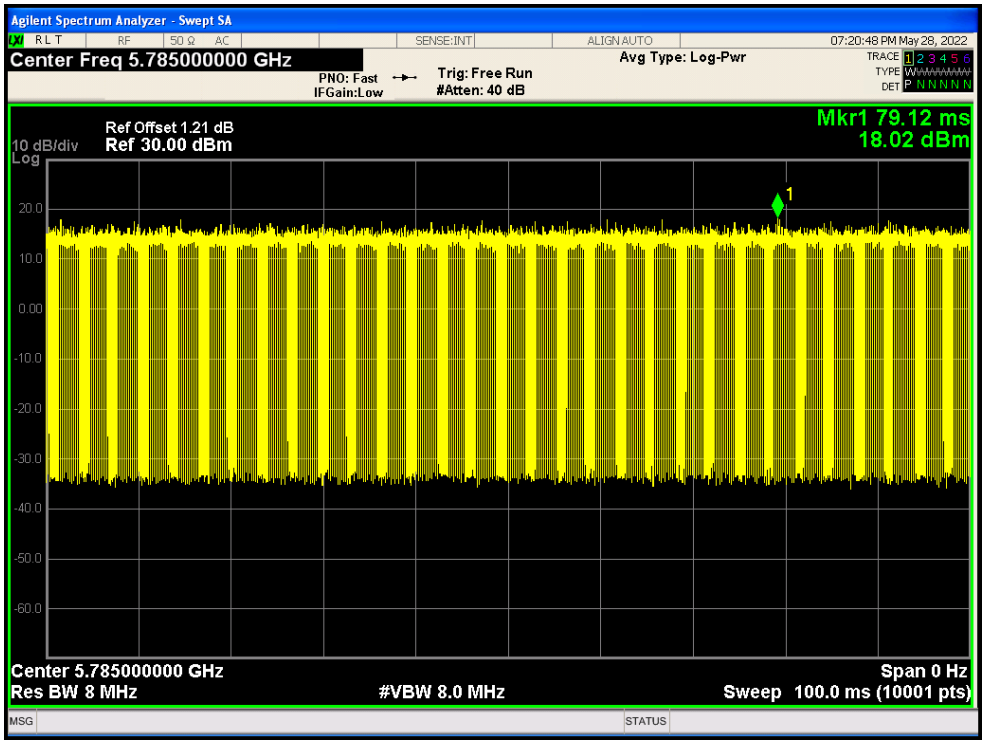
Duty Cycle NVNT ac20 5825MHz Ant1



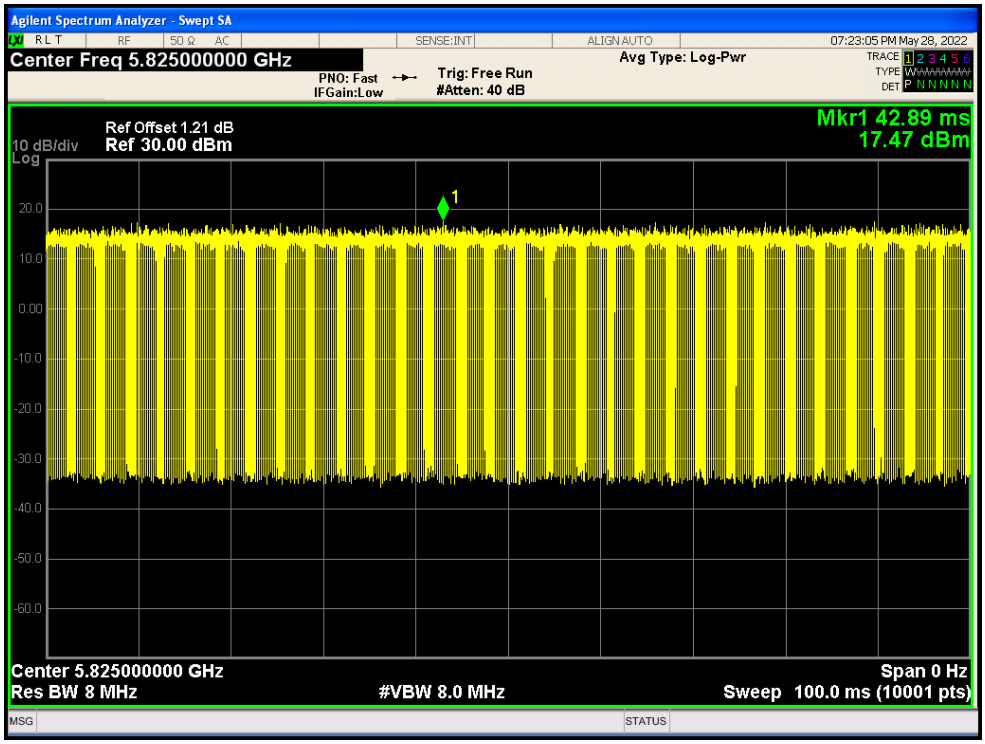
Duty Cycle NVNT n20 5745MHz Ant1



Duty Cycle NVNT n20 5785MHz Ant1



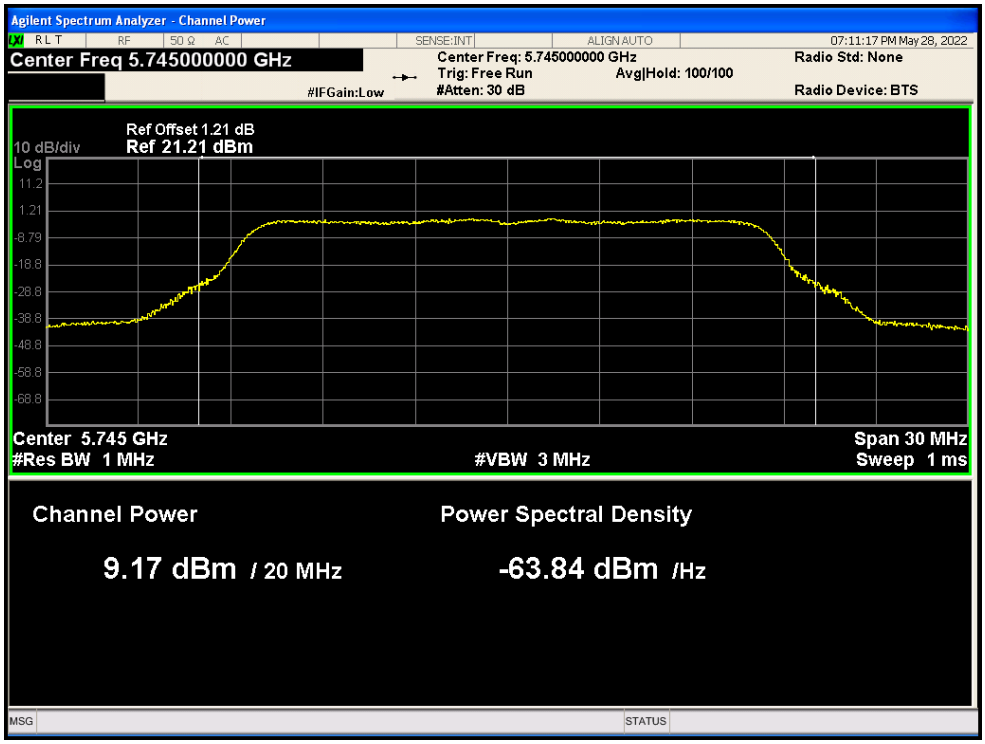
Duty Cycle NVNT n20 5825MHz Ant1



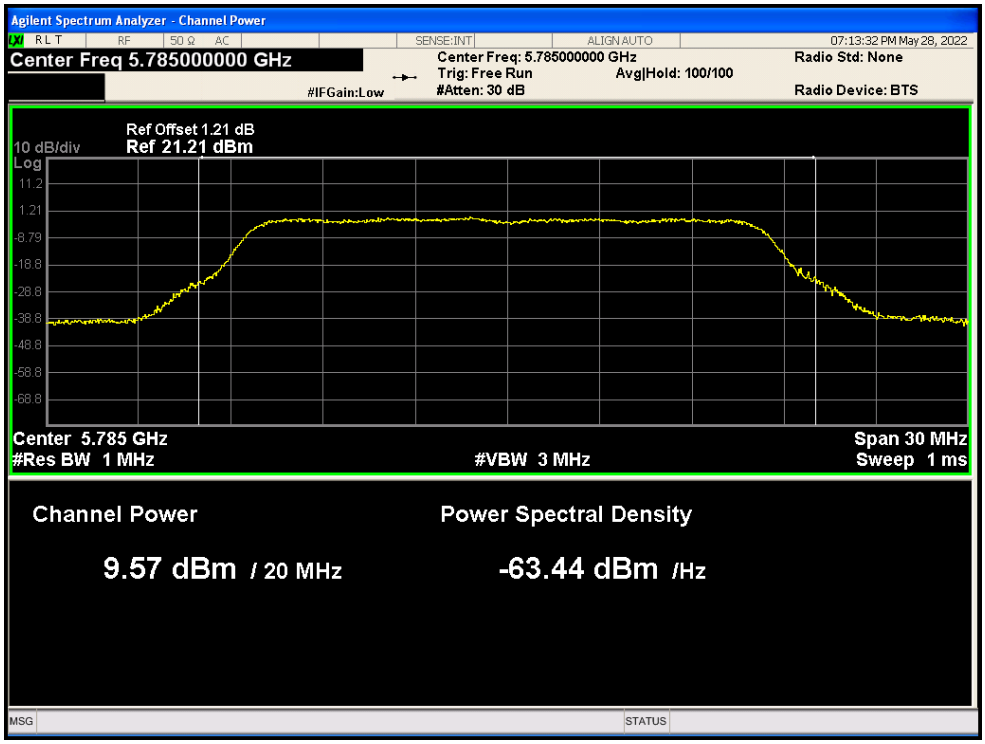
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.173	0.78	9.953	30	Pass
NVNT	a	5785	Ant1	9.567	0.78	10.347	30	Pass
NVNT	a	5825	Ant1	9.526	0.78	10.306	30	Pass
NVNT	ac20	5745	Ant1	9.11	0.83	9.94	30	Pass
NVNT	ac20	5785	Ant1	9.387	0.83	10.217	30	Pass
NVNT	ac20	5825	Ant1	9.607	0.83	10.437	30	Pass
NVNT	n20	5745	Ant1	9.073	0.85	9.923	30	Pass
NVNT	n20	5785	Ant1	9.305	0.85	10.155	30	Pass
NVNT	n20	5825	Ant1	9.493	0.85	10.343	30	Pass

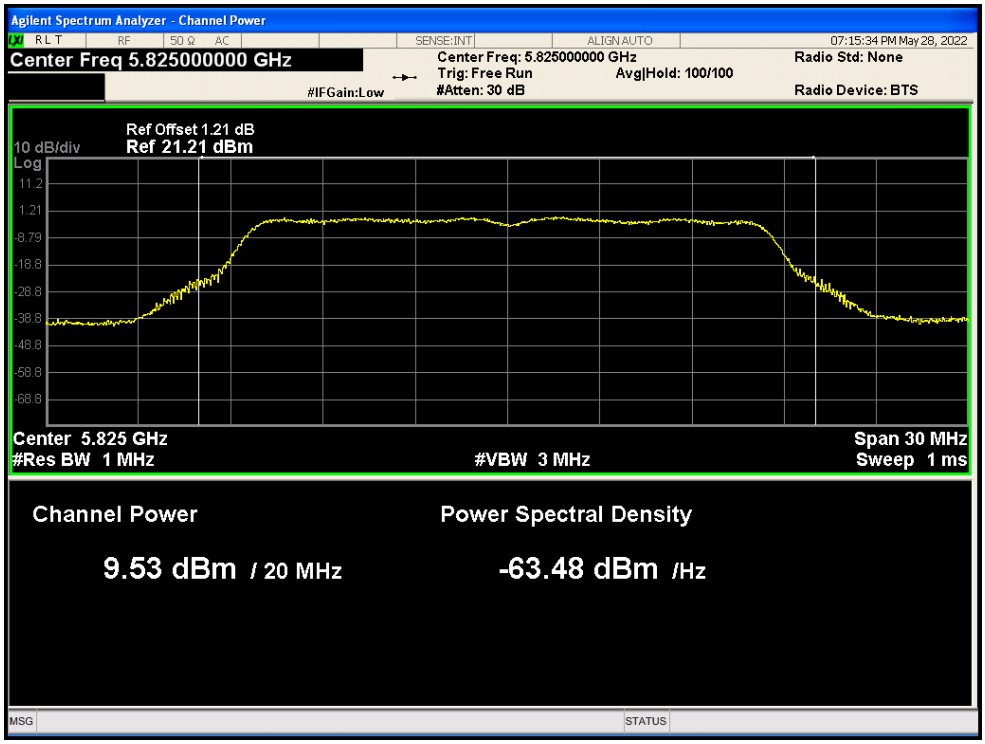
Power NVNT a 5745MHz Ant1



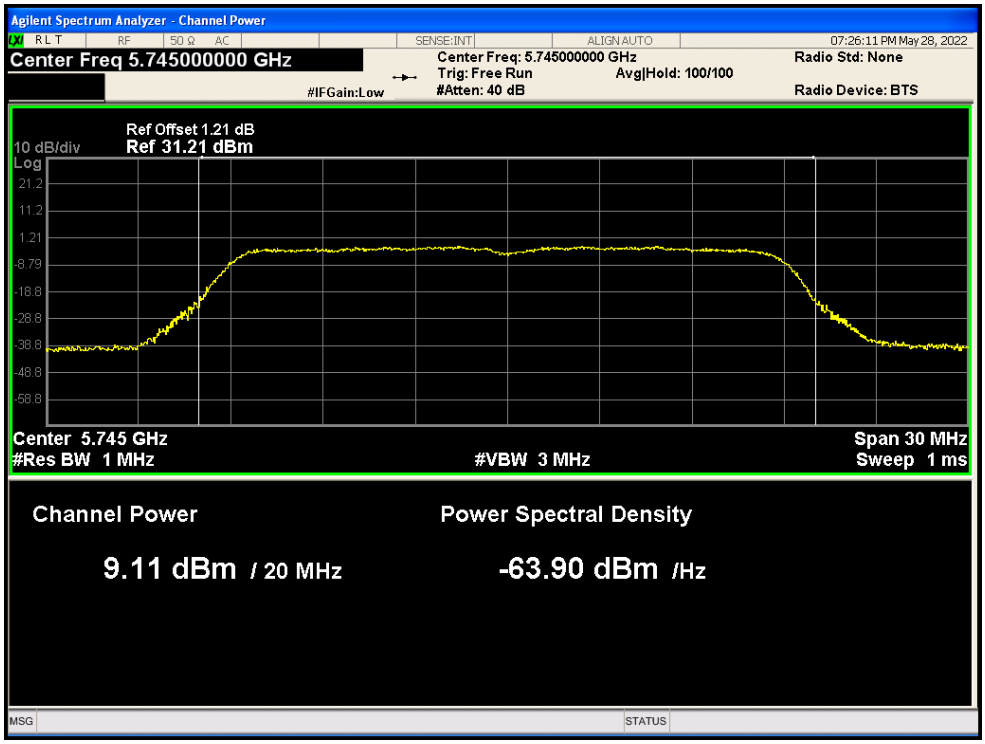
Power NVNT a 5785MHz Ant1



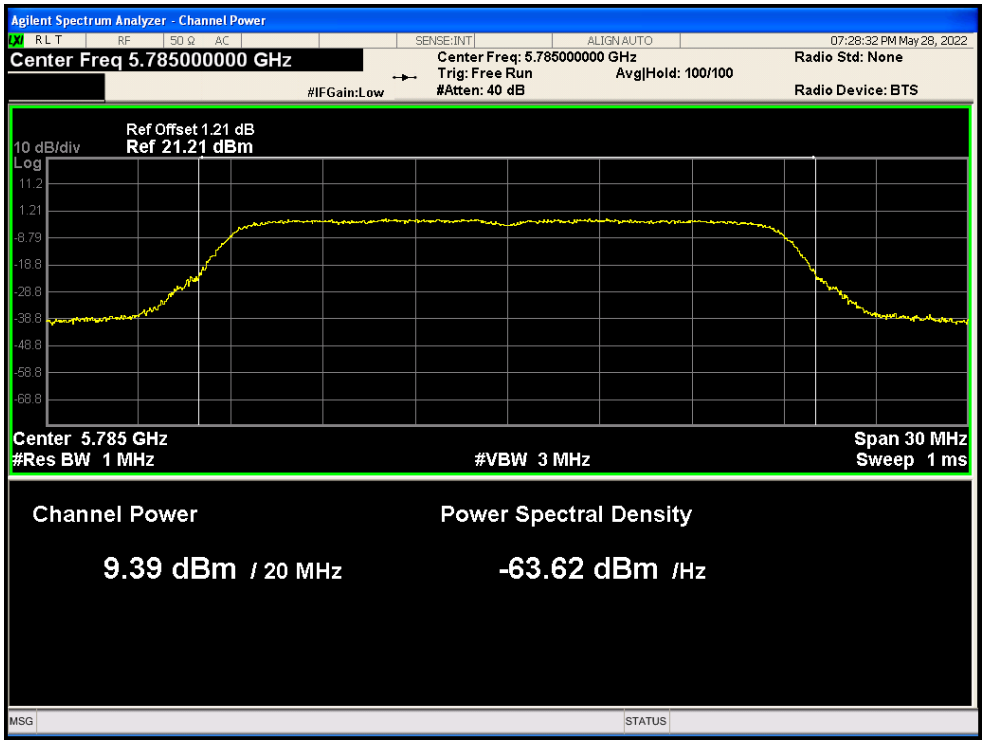
Power NVNT a 5825MHz Ant1



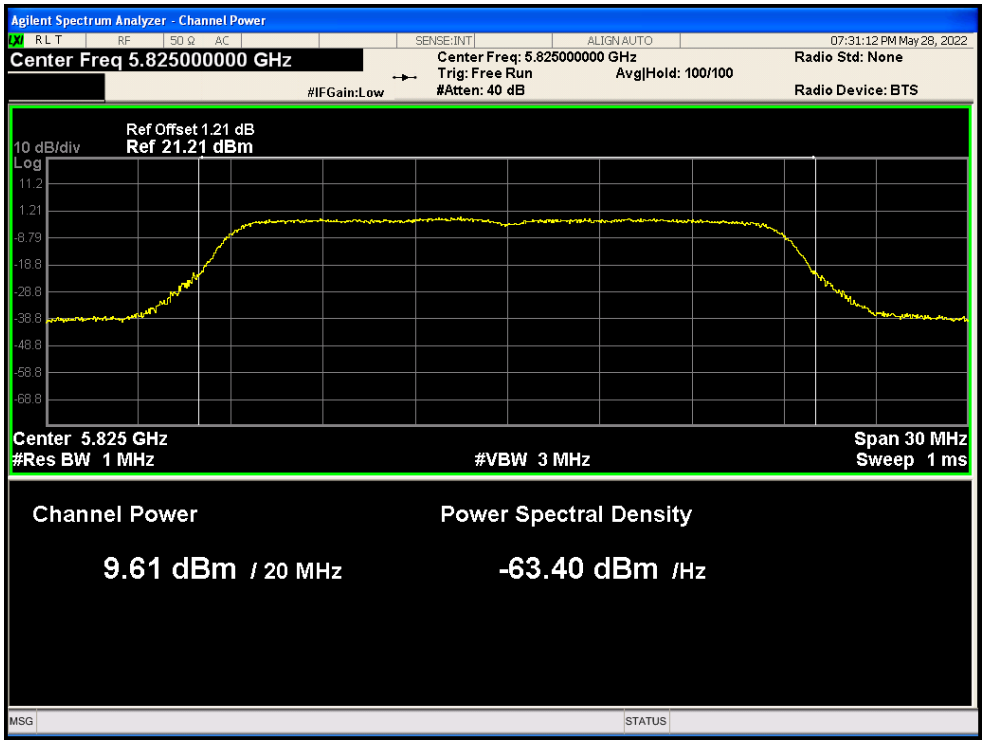
Power NVNT ac20 5745MHz Ant1



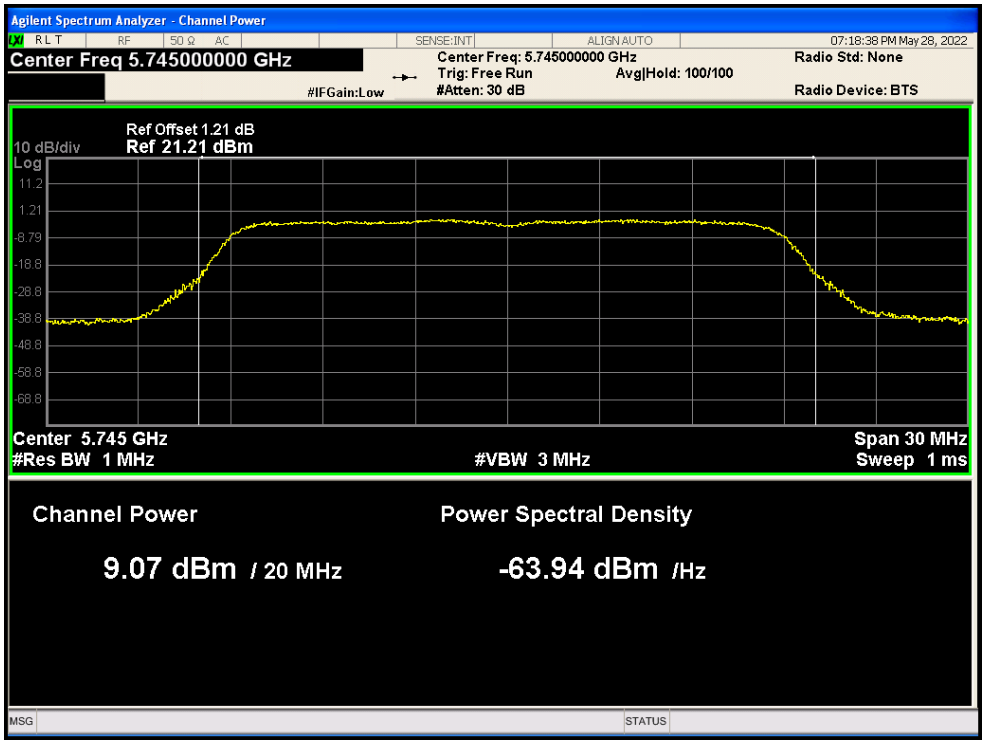
Power NVNT ac20 5785MHz Ant1



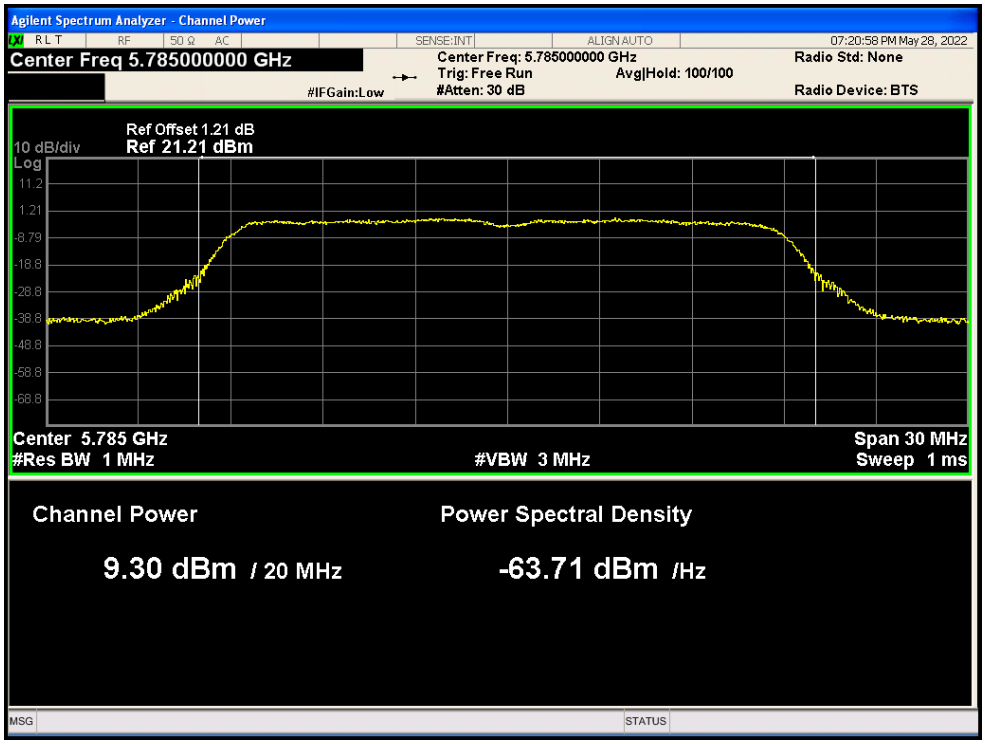
Power NVNT ac20 5825MHz Ant1



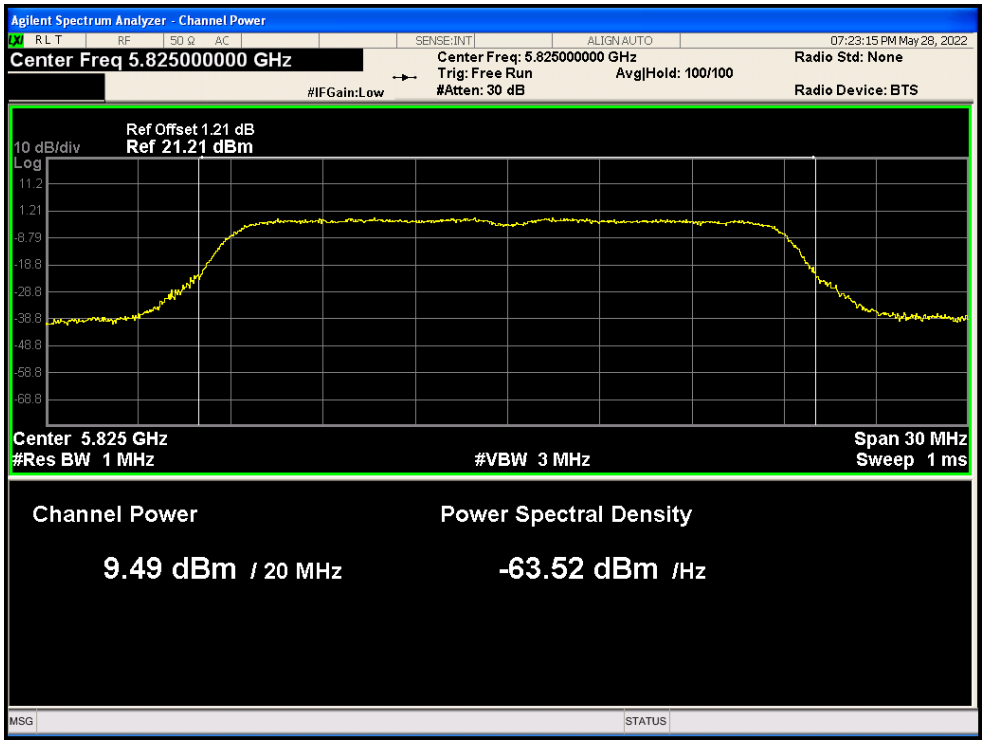
Power NVNT n20 5745MHz Ant1



Power NVNT n20 5785MHz Ant1



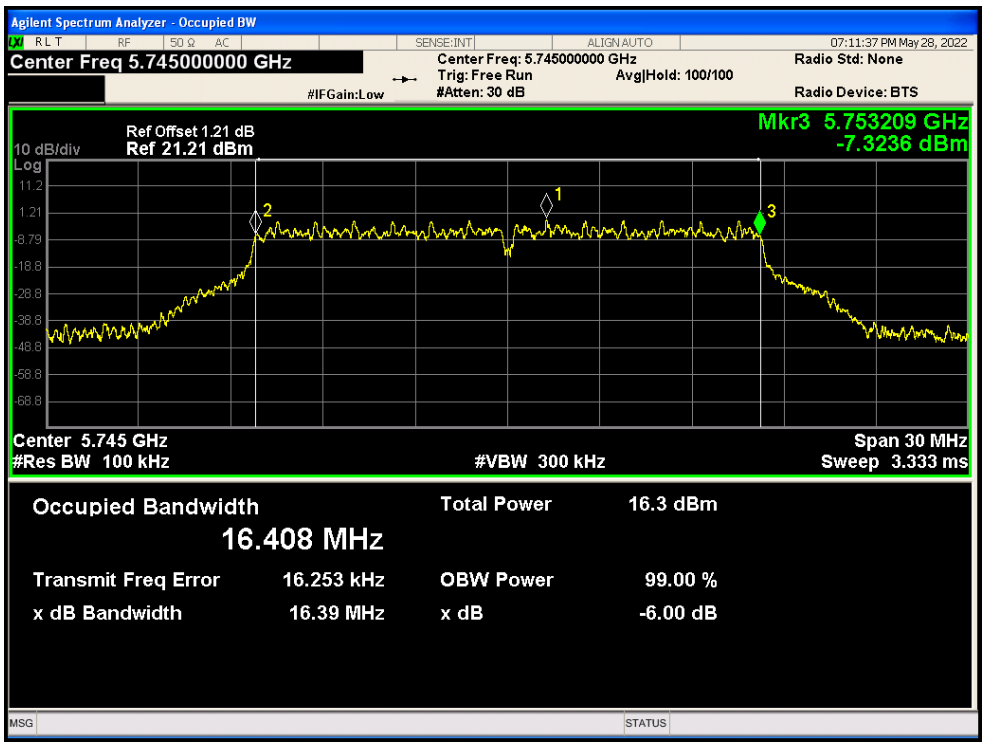
Power NVNT n20 5825MHz Ant1



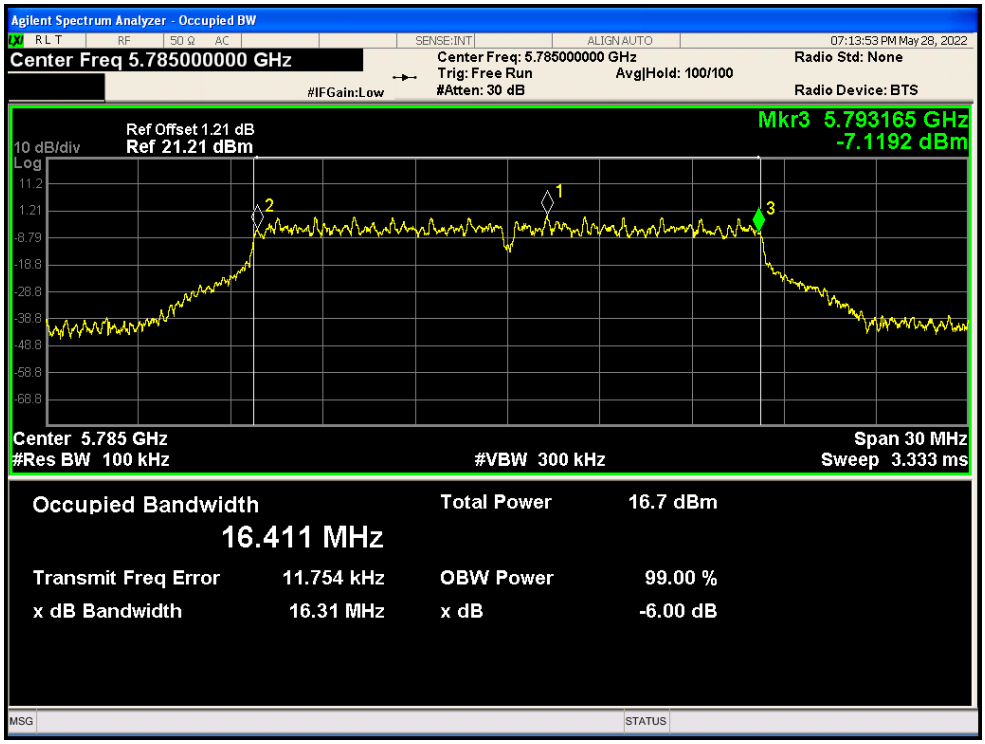
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.386	0.5	Pass
NVNT	a	5785	Ant1	16.306	0.5	Pass
NVNT	a	5825	Ant1	16.348	0.5	Pass
NVNT	ac20	5745	Ant1	17.755	0.5	Pass
NVNT	ac20	5785	Ant1	17.727	0.5	Pass
NVNT	ac20	5825	Ant1	17.785	0.5	Pass
NVNT	n20	5745	Ant1	17.694	0.5	Pass
NVNT	n20	5785	Ant1	17.722	0.5	Pass
NVNT	n20	5825	Ant1	17.679	0.5	Pass

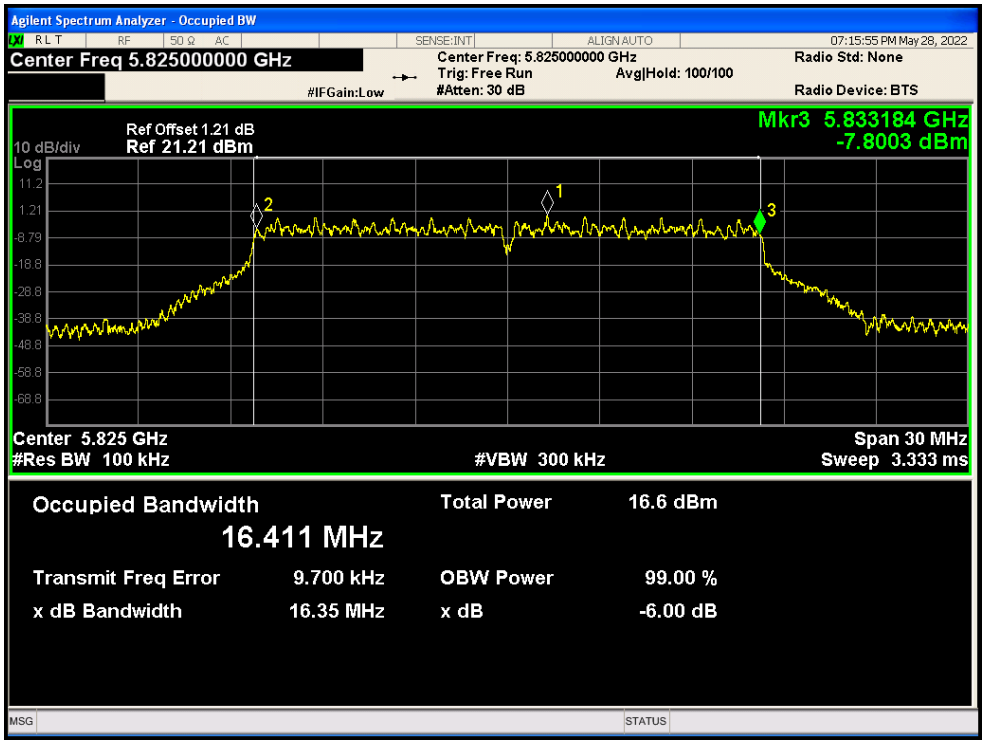
-6dB Bandwidth NVNT a 5745MHz Ant1



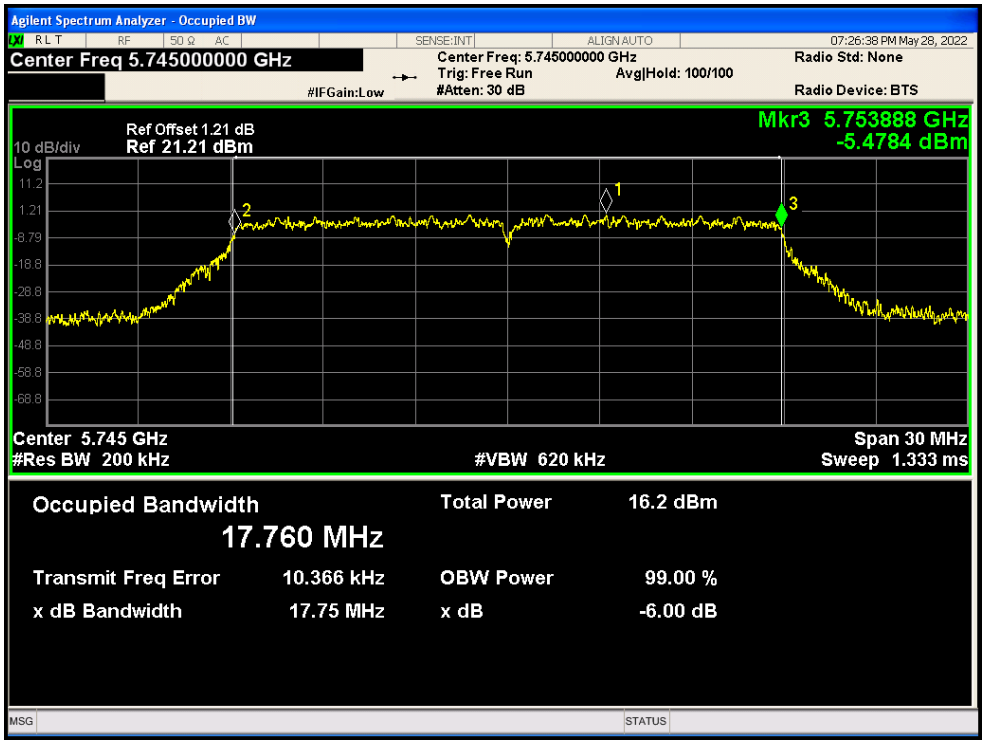
-6dB Bandwidth NVNT a 5785MHz Ant1



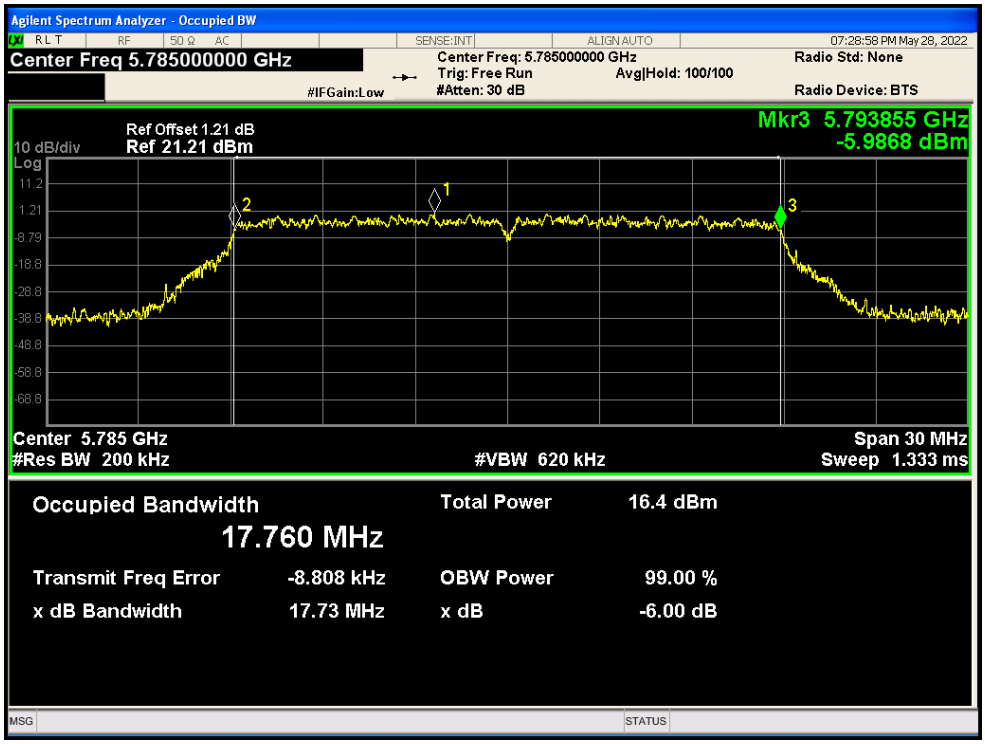
-6dB Bandwidth NVNT a 5825MHz Ant1



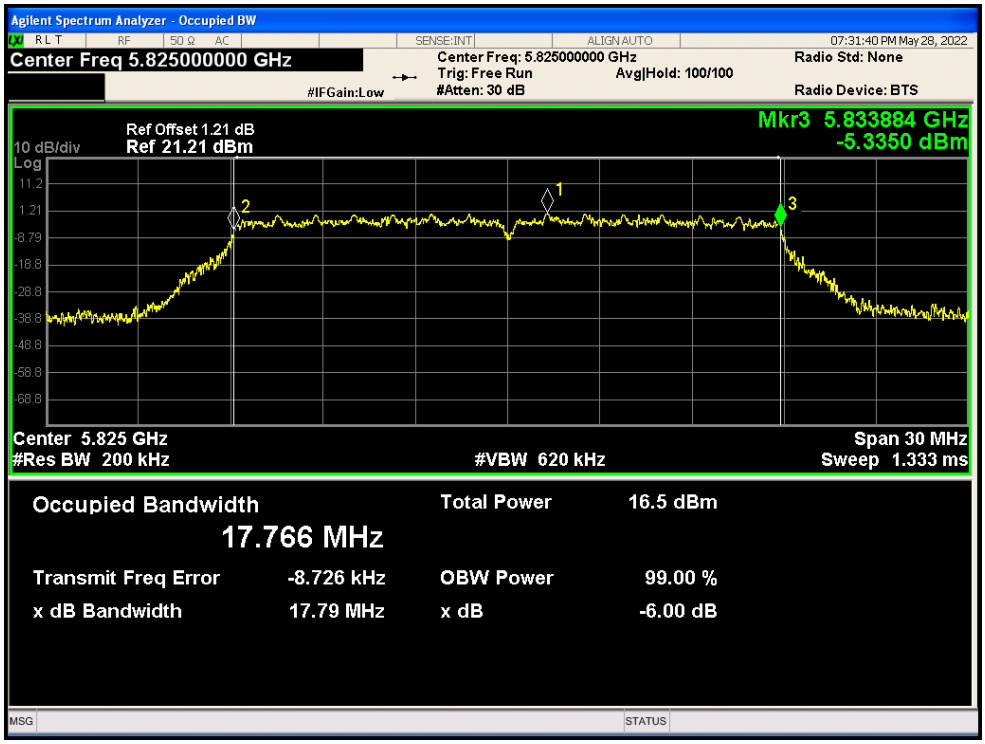
-6dB Bandwidth NVNT ac20 5745MHz Ant1



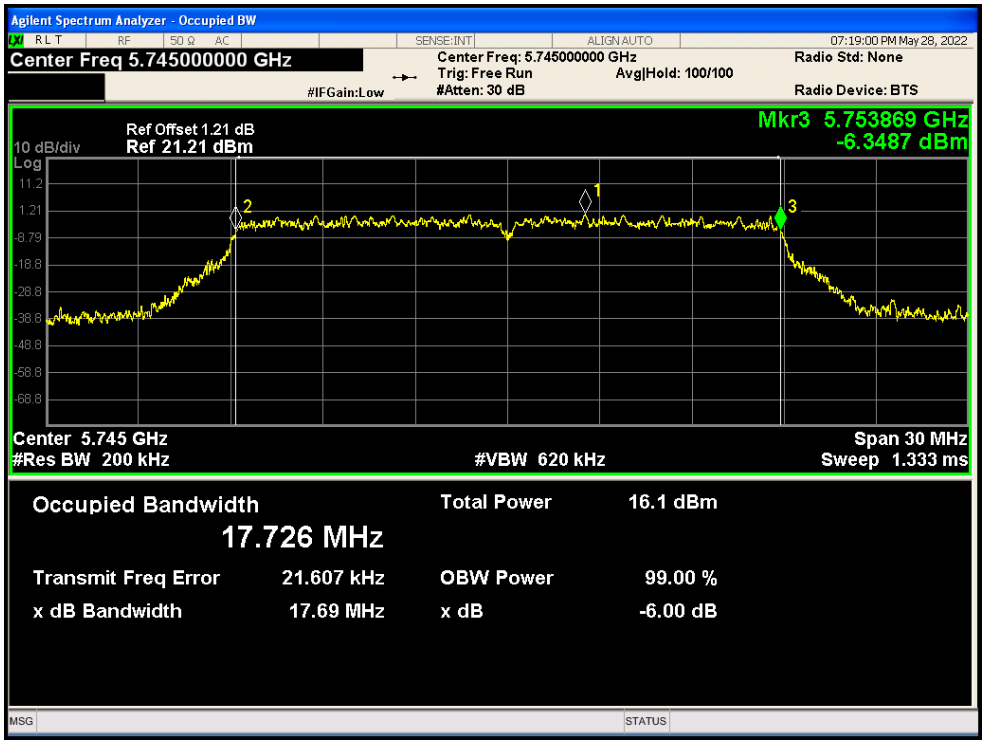
-6dB Bandwidth NVNT ac20 5785MHz Ant1



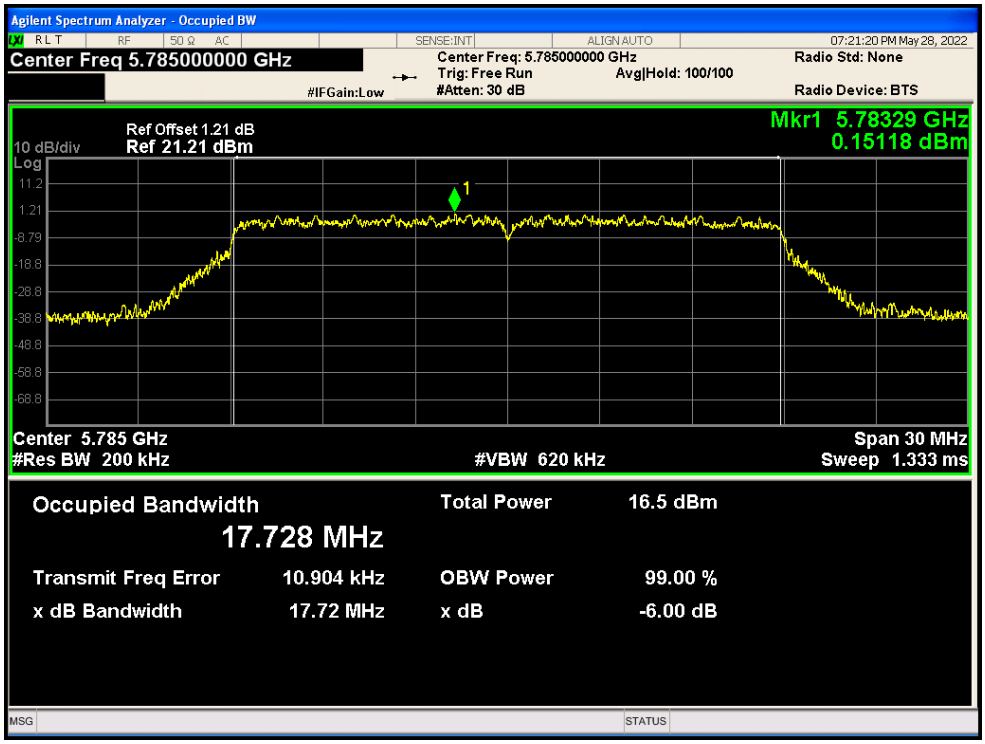
-6dB Bandwidth NVNT ac20 5825MHz Ant1



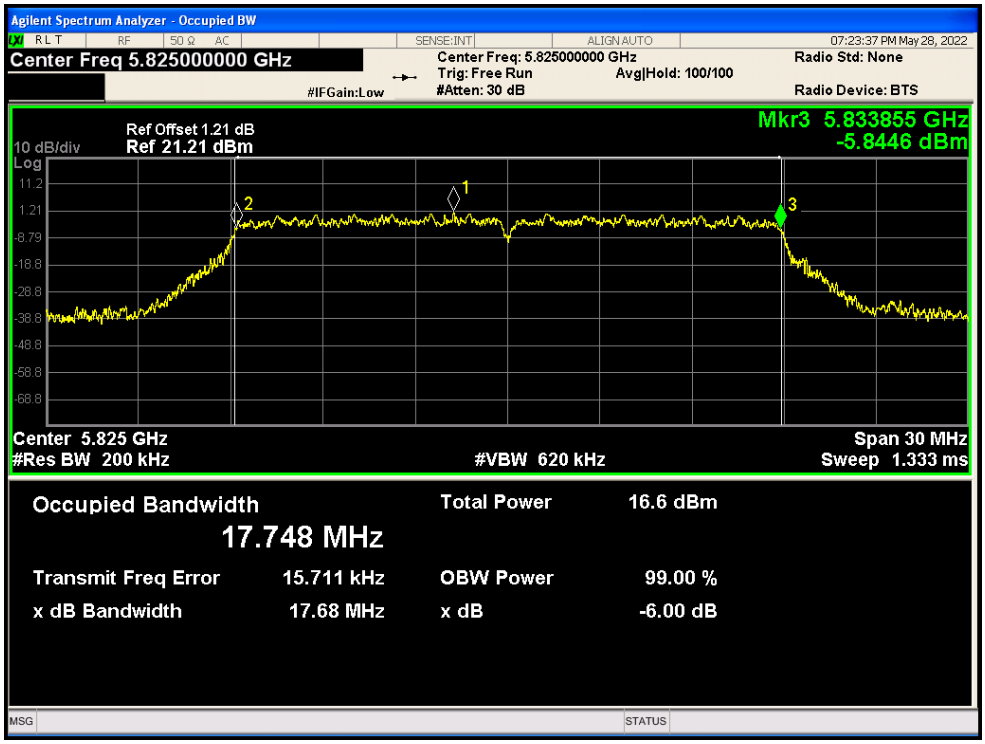
-6dB Bandwidth NVNT n20 5745MHz Ant1



-6dB Bandwidth NVNT n20 5785MHz Ant1



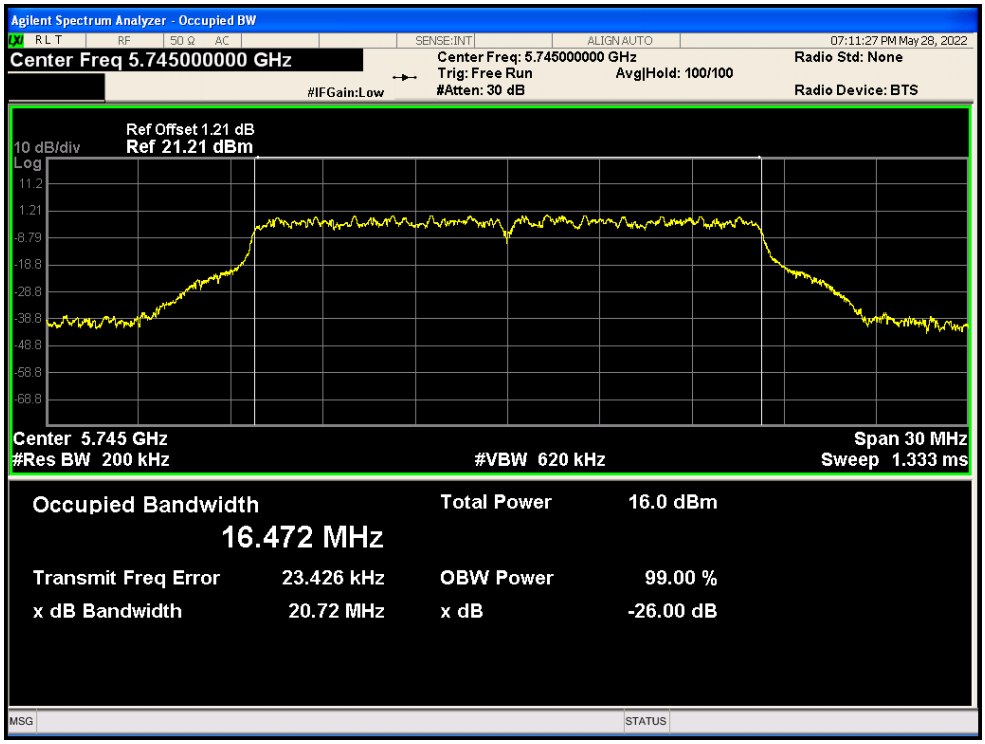
-6dB Bandwidth NVNT n20 5825MHz Ant1



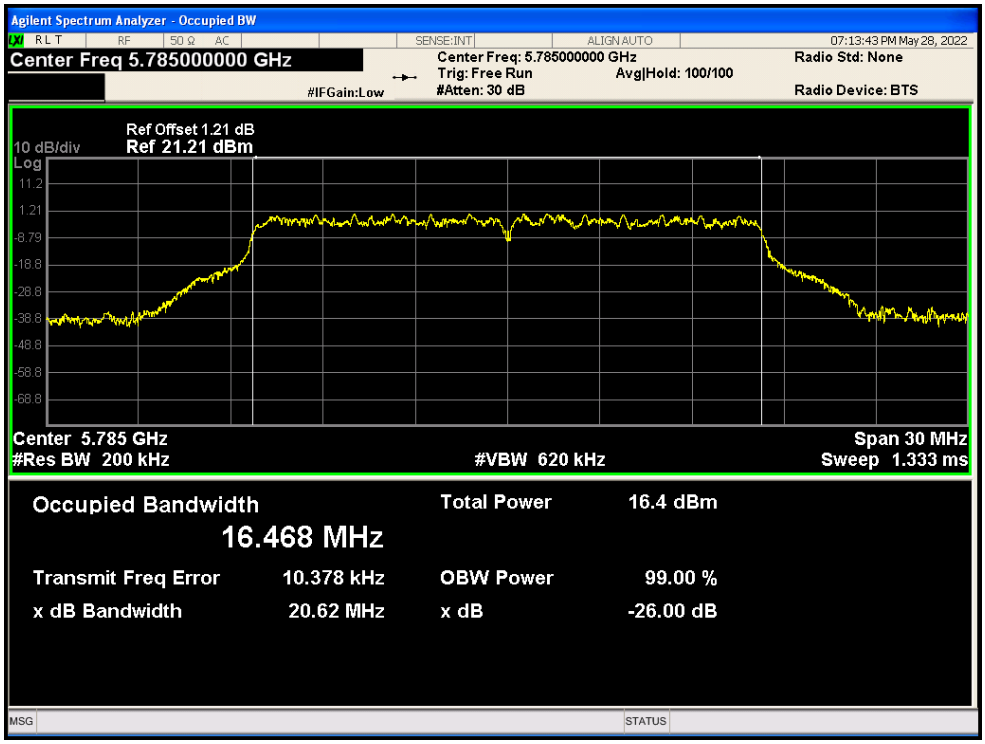
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.472
NVNT	a	5785	Ant1	16.468
NVNT	a	5825	Ant1	16.482
NVNT	ac20	5745	Ant1	17.744
NVNT	ac20	5785	Ant1	17.777
NVNT	ac20	5825	Ant1	17.75
NVNT	n20	5745	Ant1	17.719
NVNT	n20	5785	Ant1	17.732
NVNT	n20	5825	Ant1	17.706

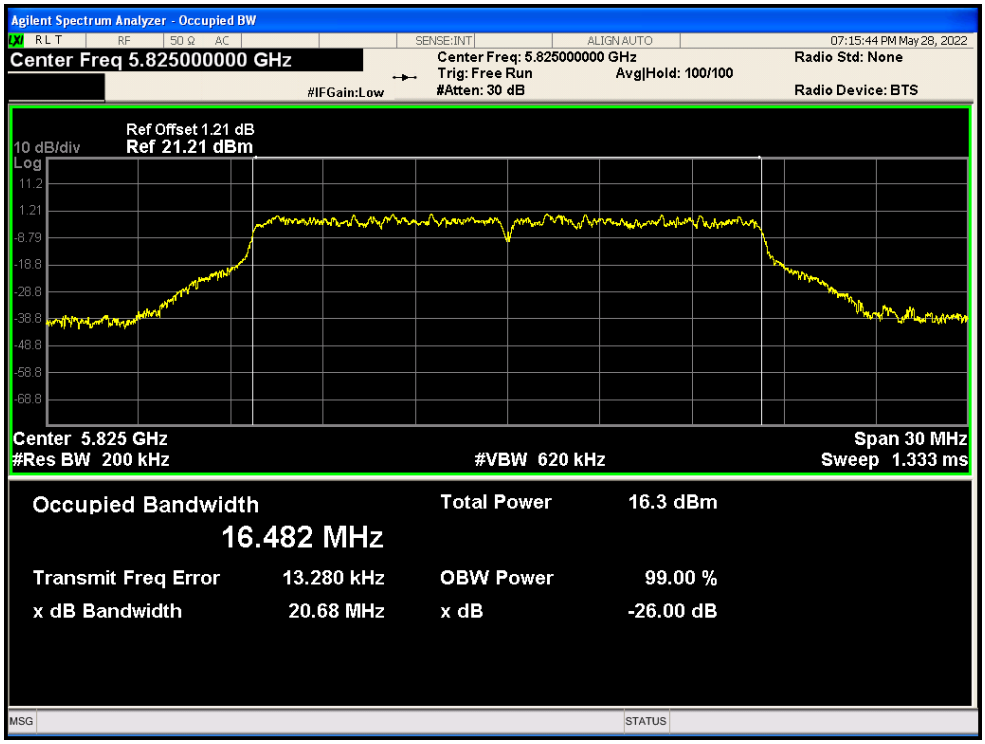
OBW NVNT a 5745MHz Ant1



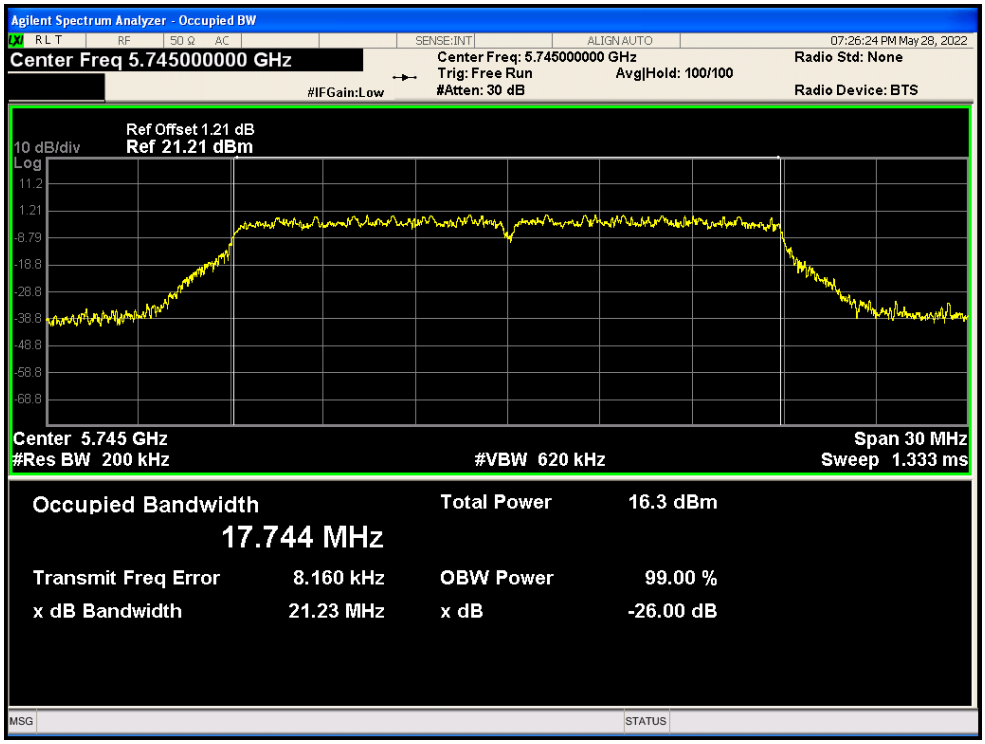
OBW NVNT a 5785MHz Ant1



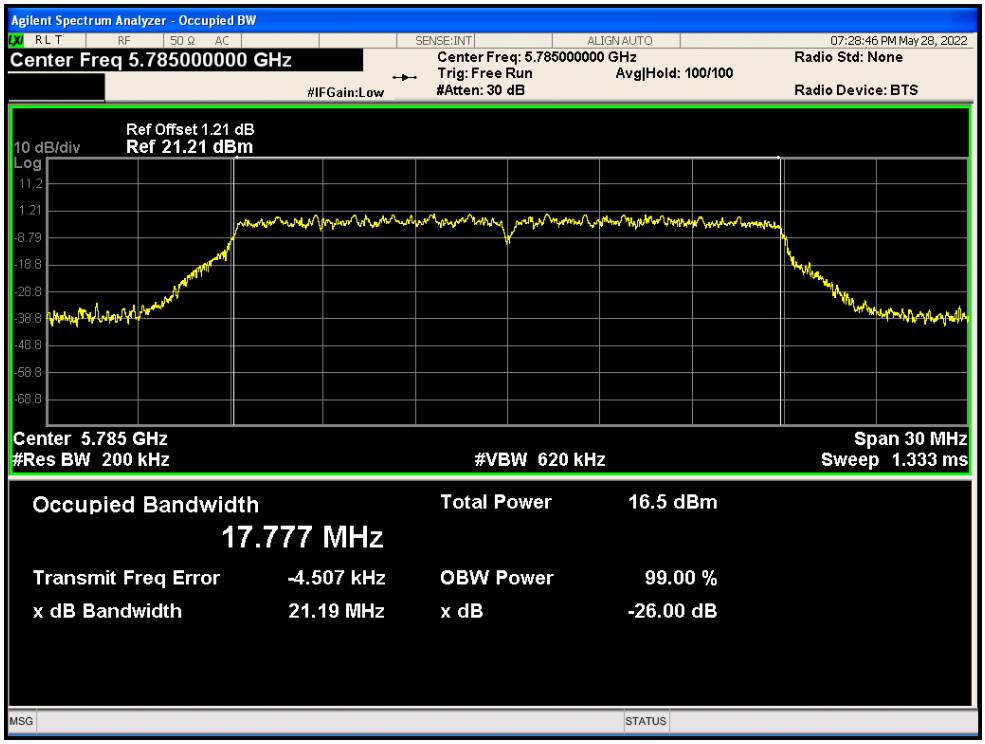
OBW NVNT a 5825MHz Ant1



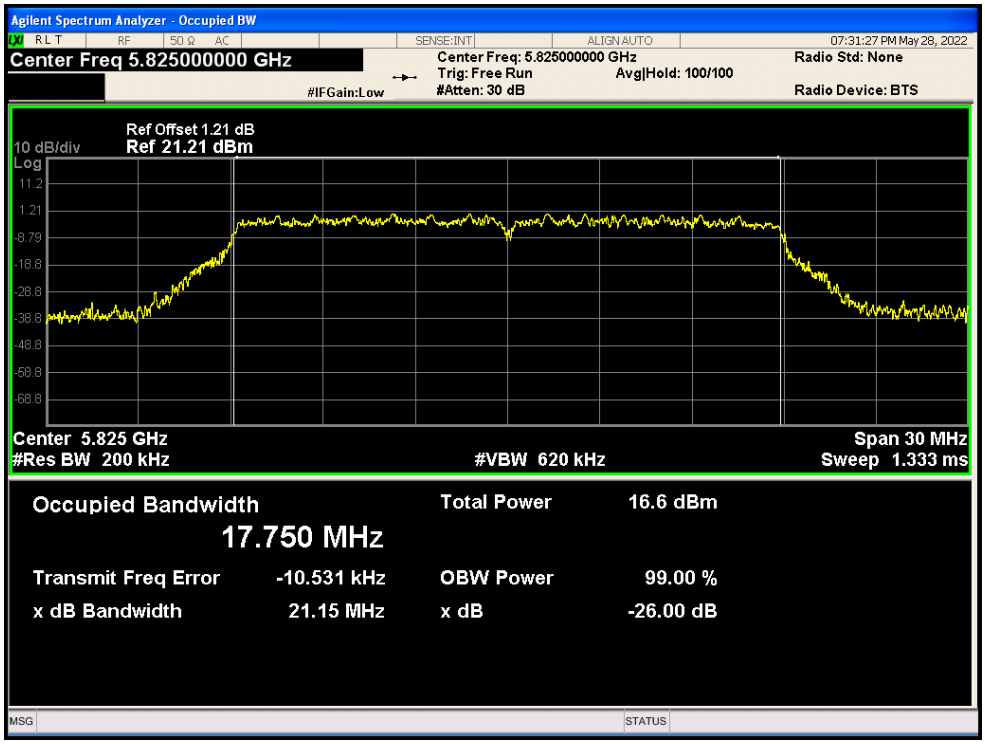
OBW NVNT ac20 5745MHz Ant1



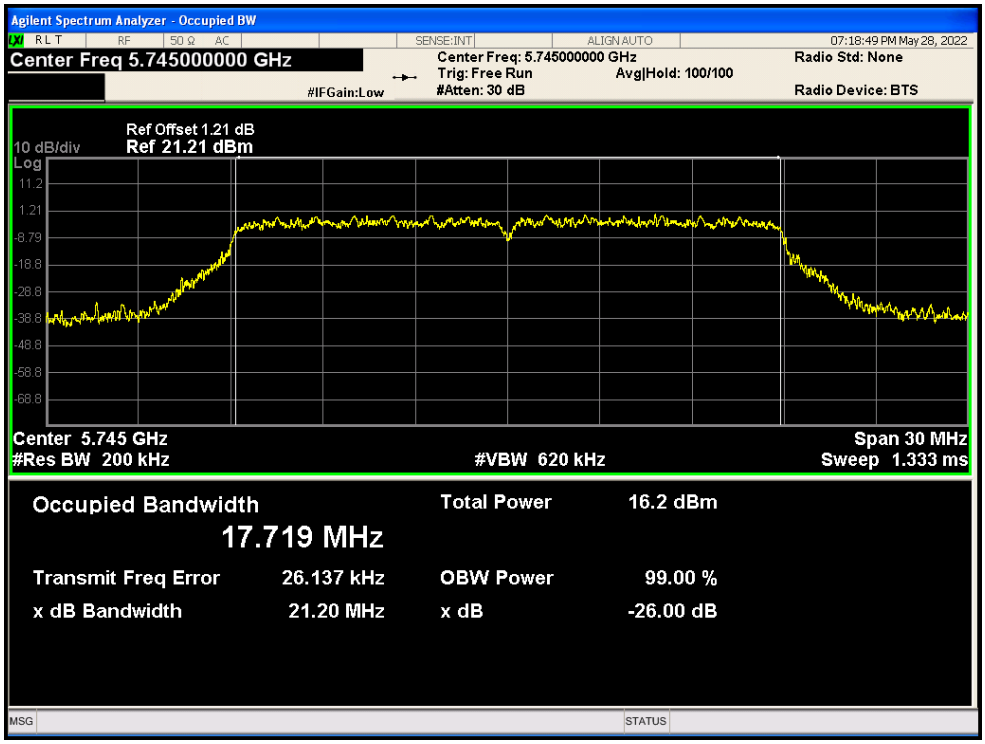
OBW NVNT ac20 5785MHz Ant1



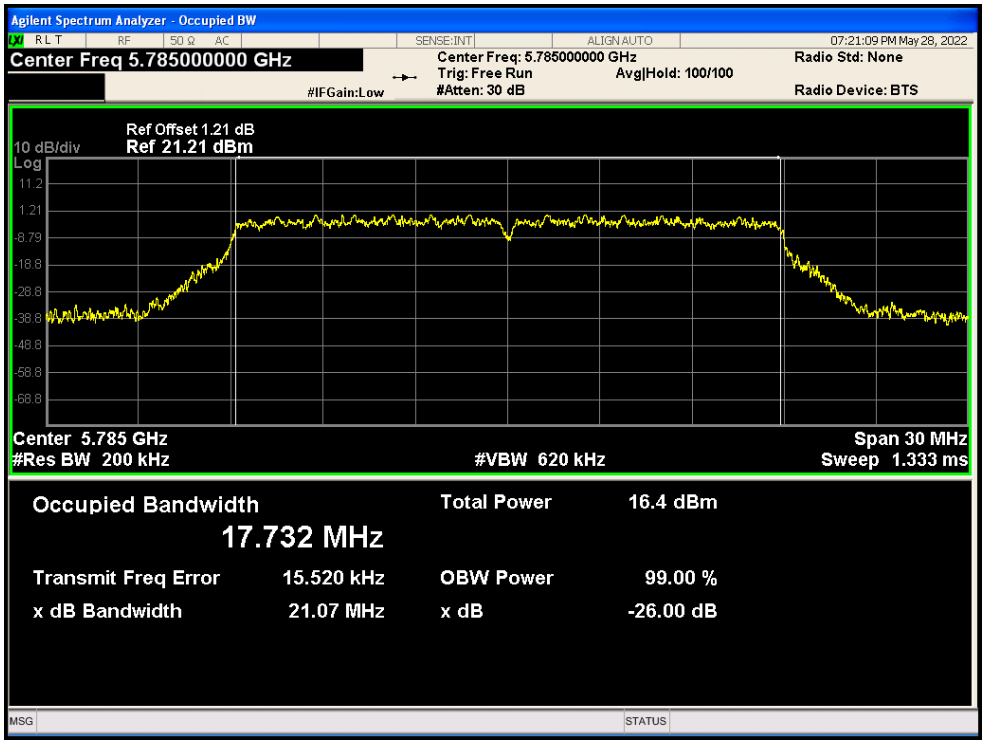
OBW NVNT ac20 5825MHz Ant1



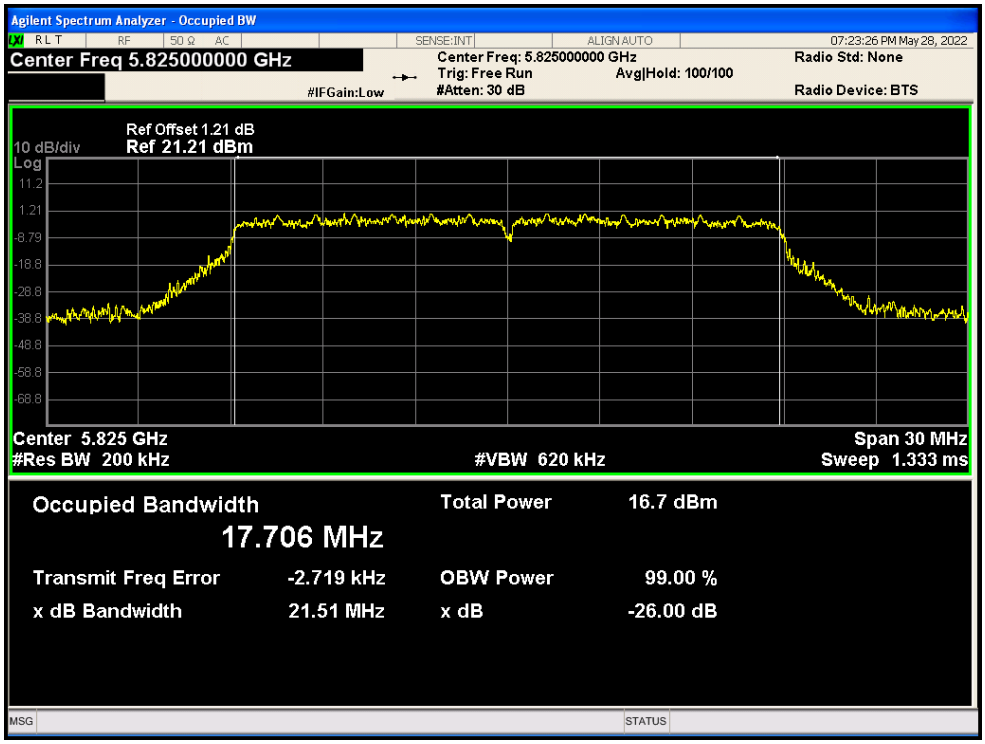
OBW NVNT n20 5745MHz Ant1



OBW NVNT n20 5785MHz Ant1



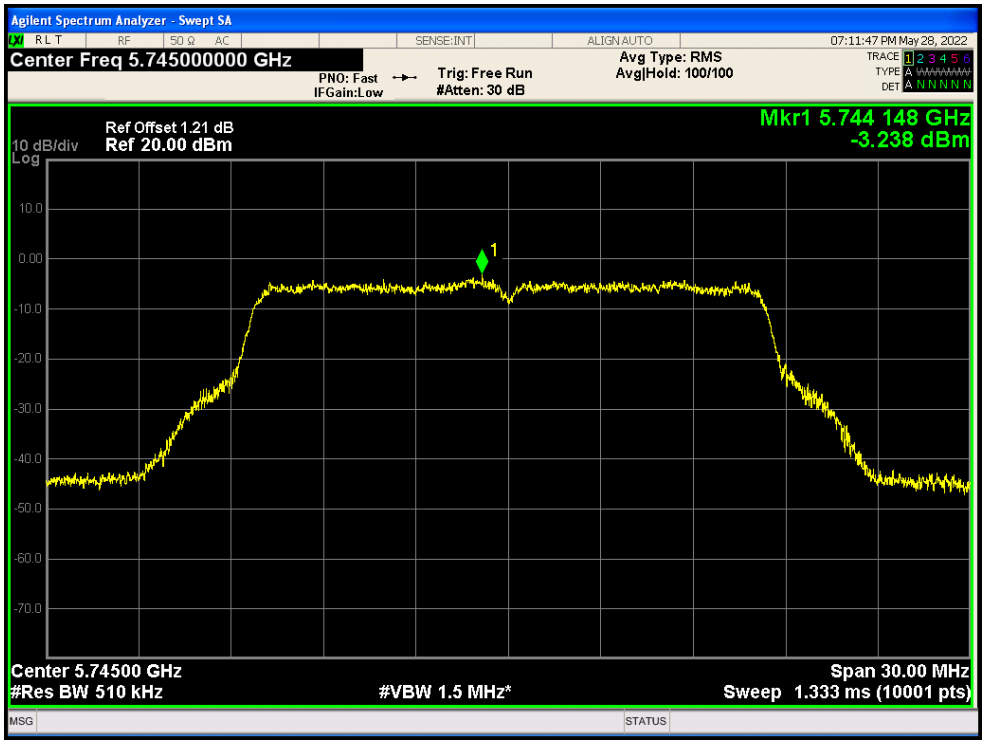
OBW NVNT n20 5825MHz Ant1



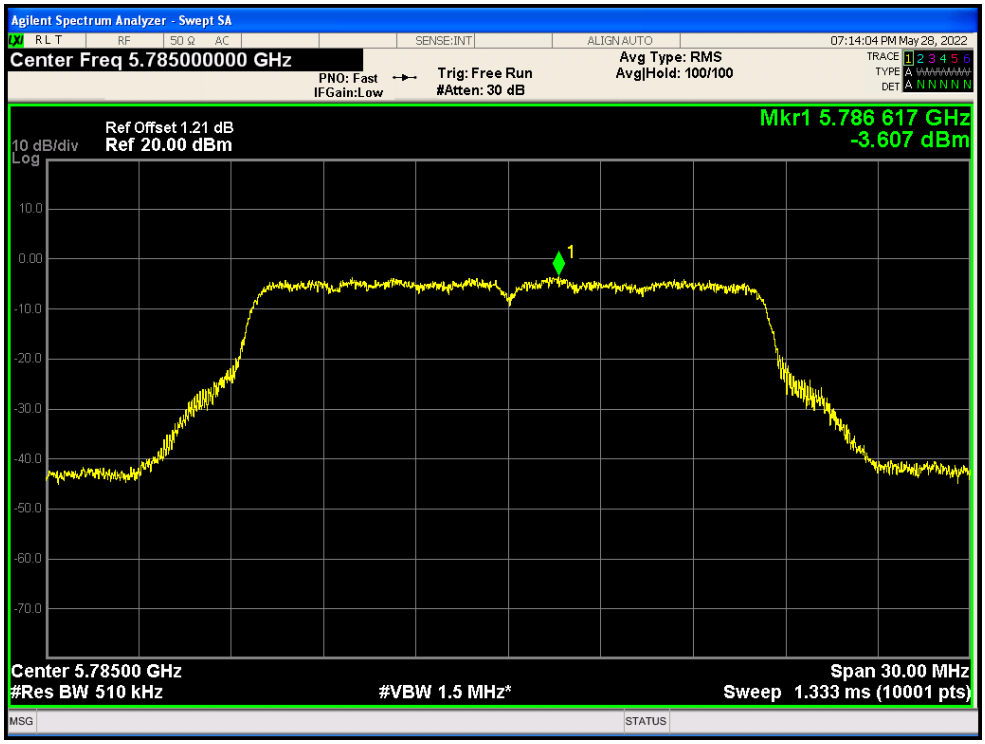
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-3.238	30	Pass
NVNT	a	5785	Ant1	-3.607	30	Pass
NVNT	a	5825	Ant1	-3.691	30	Pass
NVNT	ac20	5745	Ant1	-4.134	30	Pass
NVNT	ac20	5785	Ant1	-4.135	30	Pass
NVNT	ac20	5825	Ant1	-4.161	30	Pass
NVNT	n20	5745	Ant1	-4.515	30	Pass
NVNT	n20	5785	Ant1	-4.007	30	Pass
NVNT	n20	5825	Ant1	-3.938	30	Pass

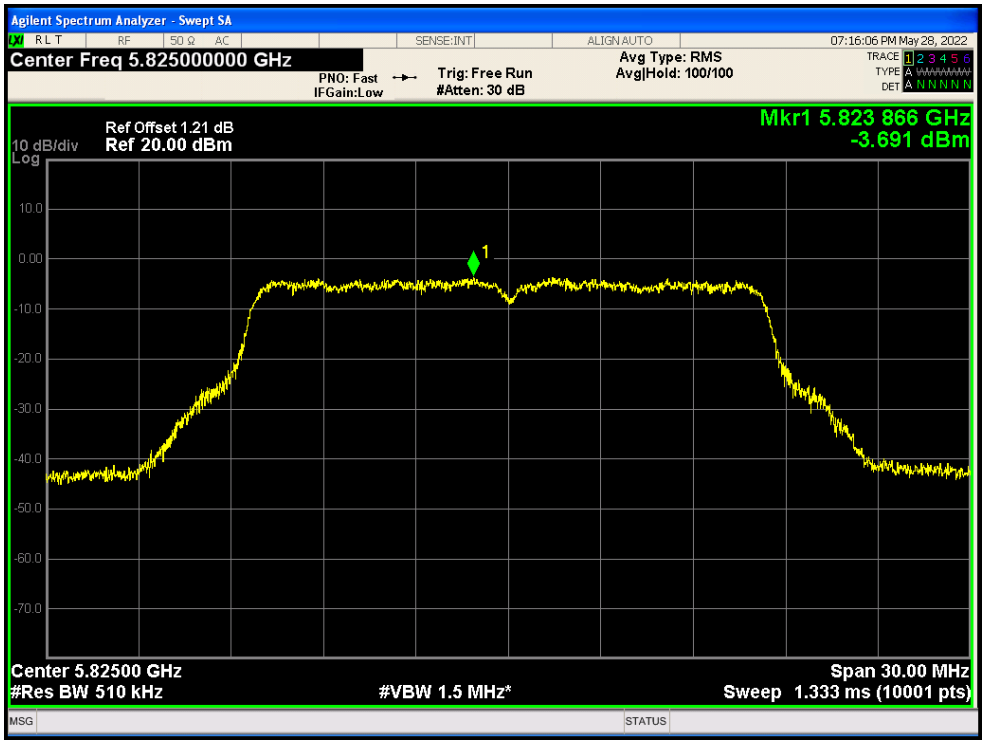
PSD NVNT a 5745MHz Ant1



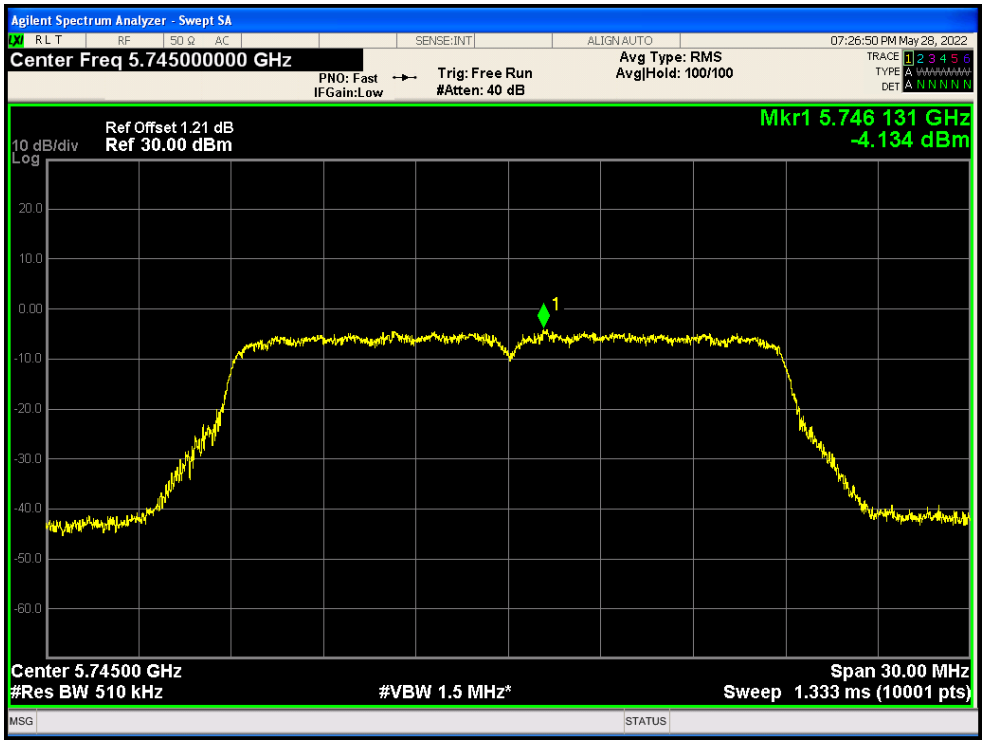
PSD NVNT a 5785MHz Ant1



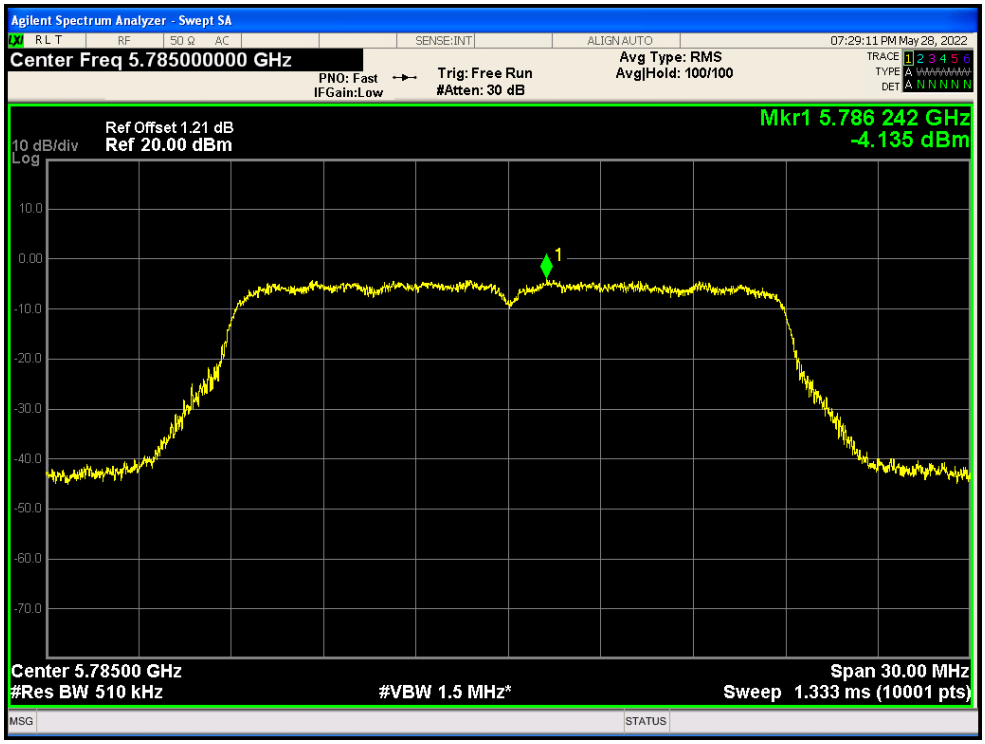
PSD NVNT a 5825MHz Ant1



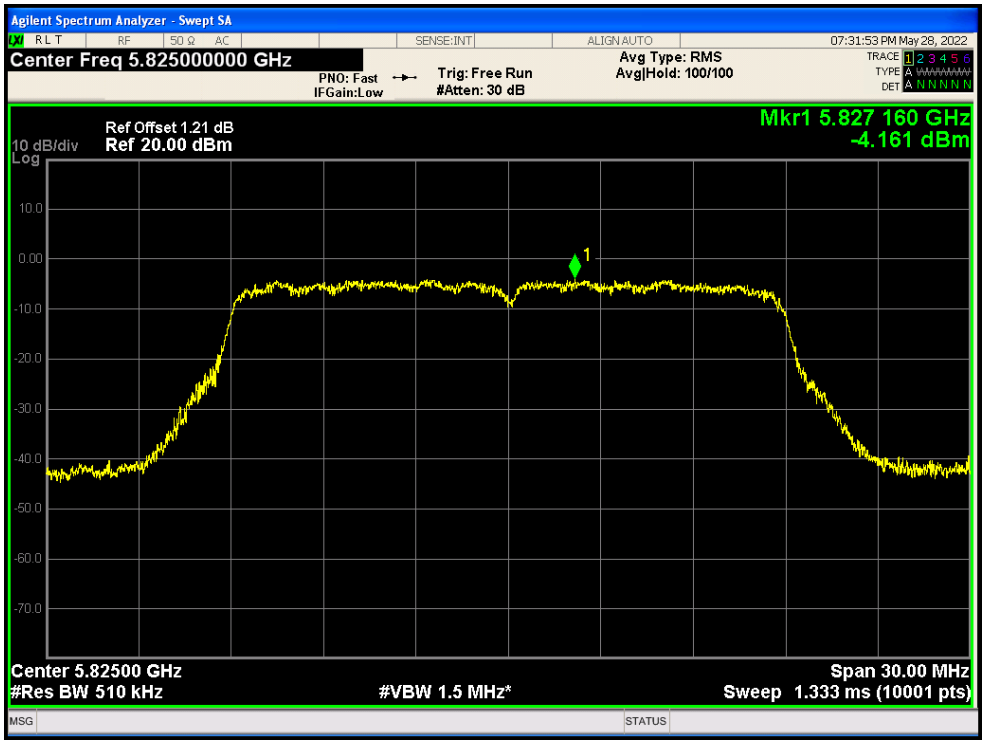
PSD NVNT ac20 5745MHz Ant1



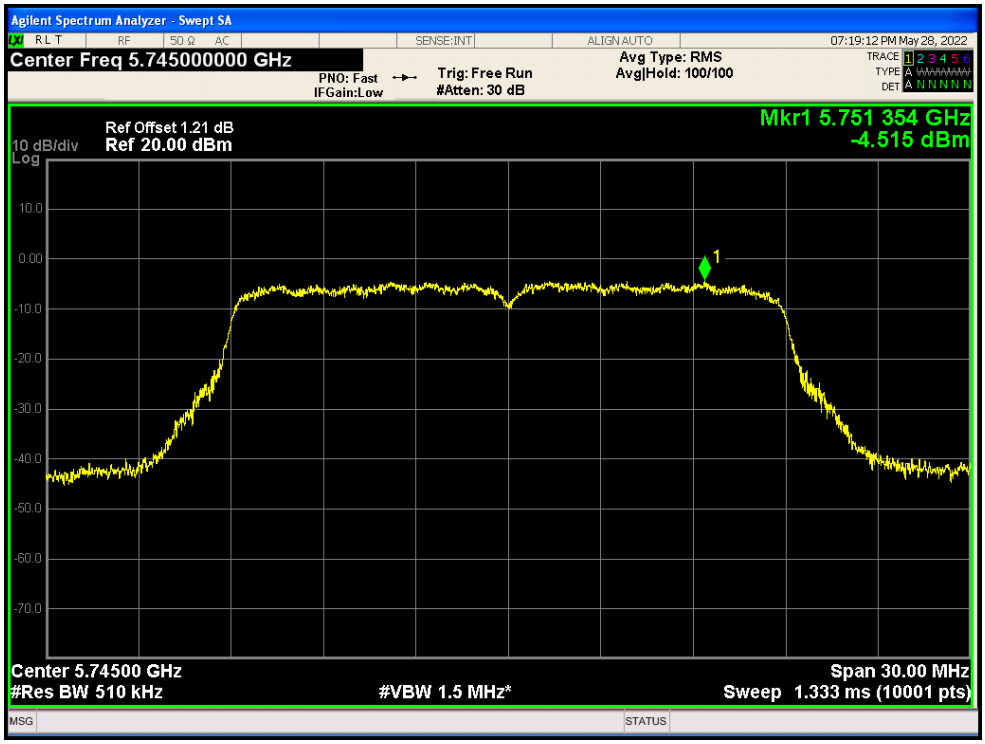
PSD NVNT ac20 5785MHz Ant1



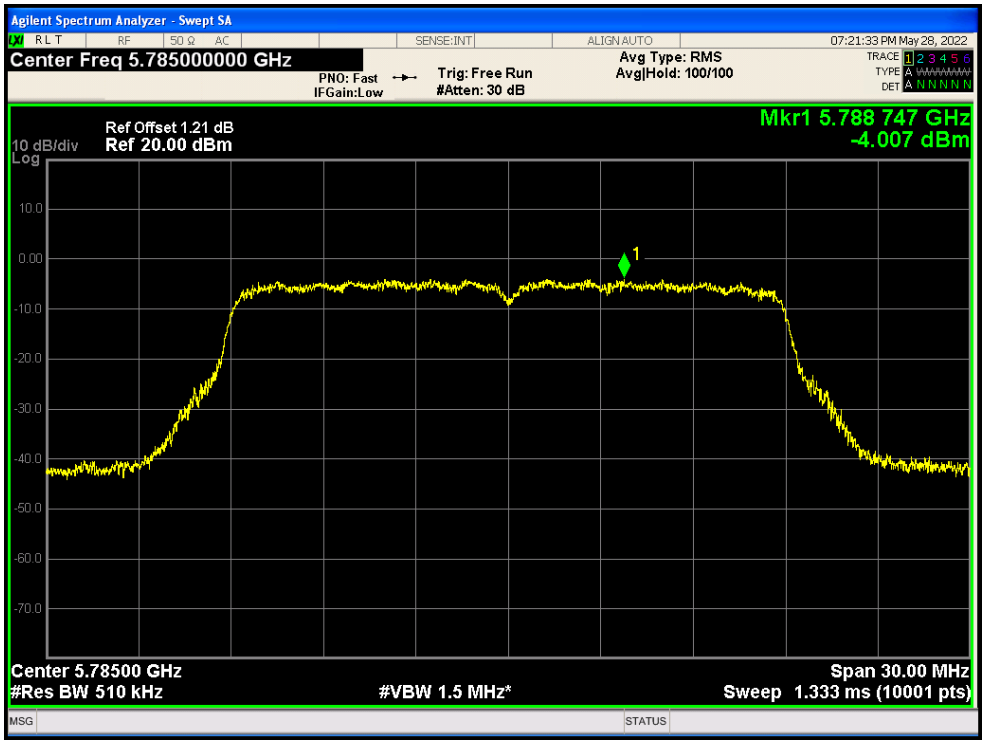
PSD NVNT ac20 5825MHz Ant1



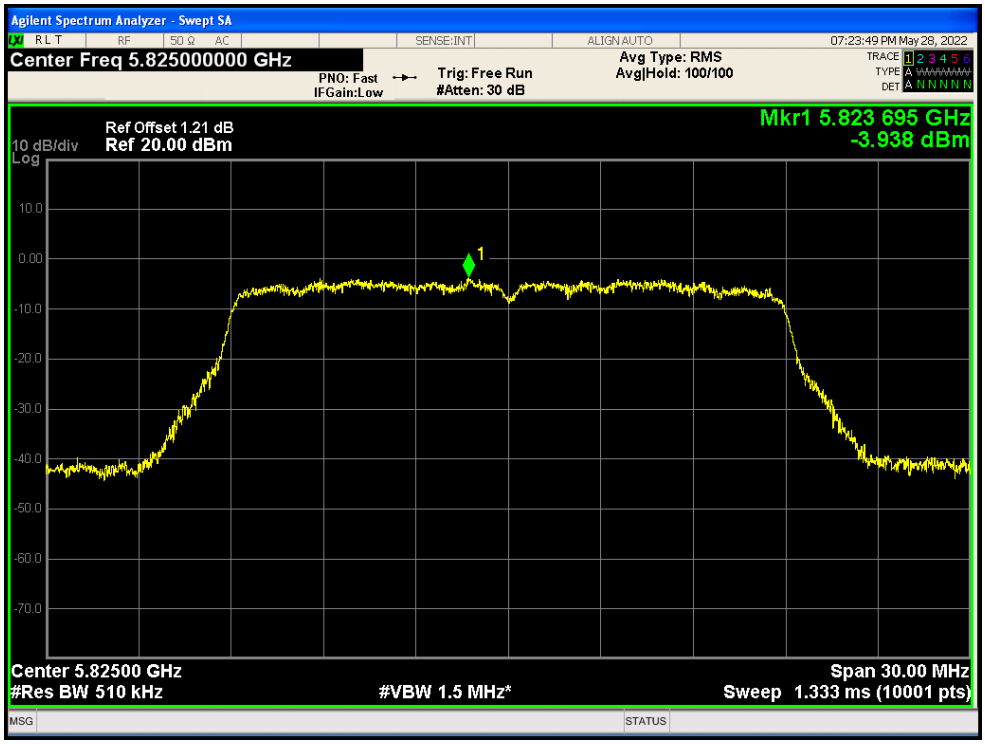
PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



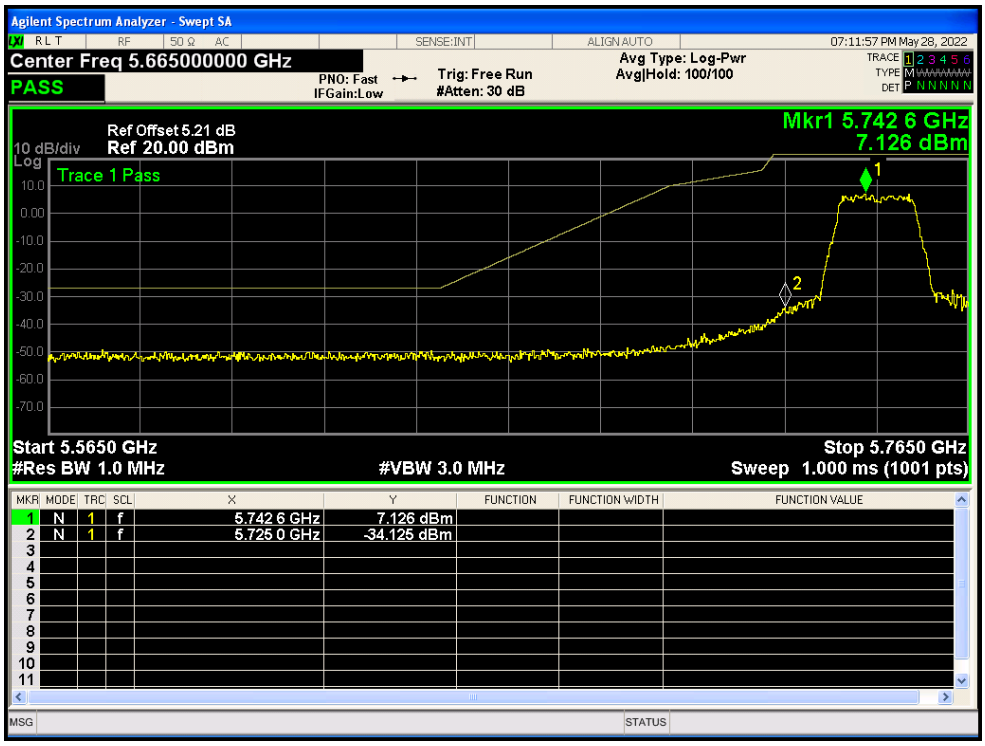
PSD NVNT n20 5825MHz Ant1



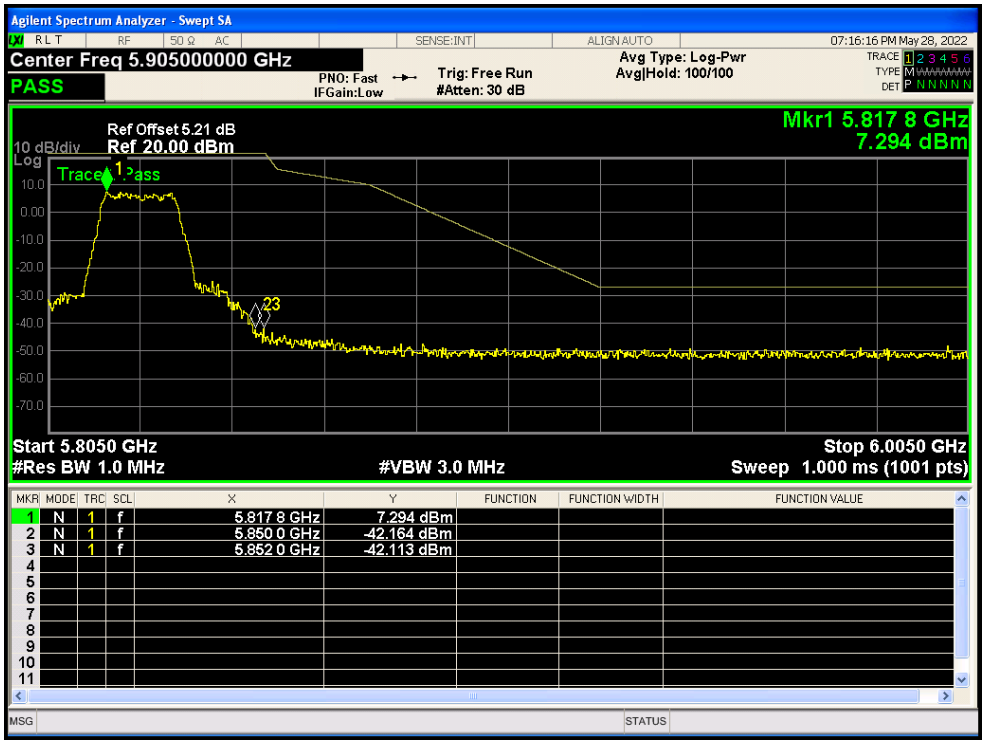
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-34.12		Pass
NVNT	a	5825	Ant1	-42.11		Pass
NVNT	ac20	5745	Ant1	-28.93		Pass
NVNT	ac20	5825	Ant1	-37.43		Pass
NVNT	n20	5745	Ant1	-28.76		Pass
NVNT	n20	5825	Ant1	-39.73		Pass

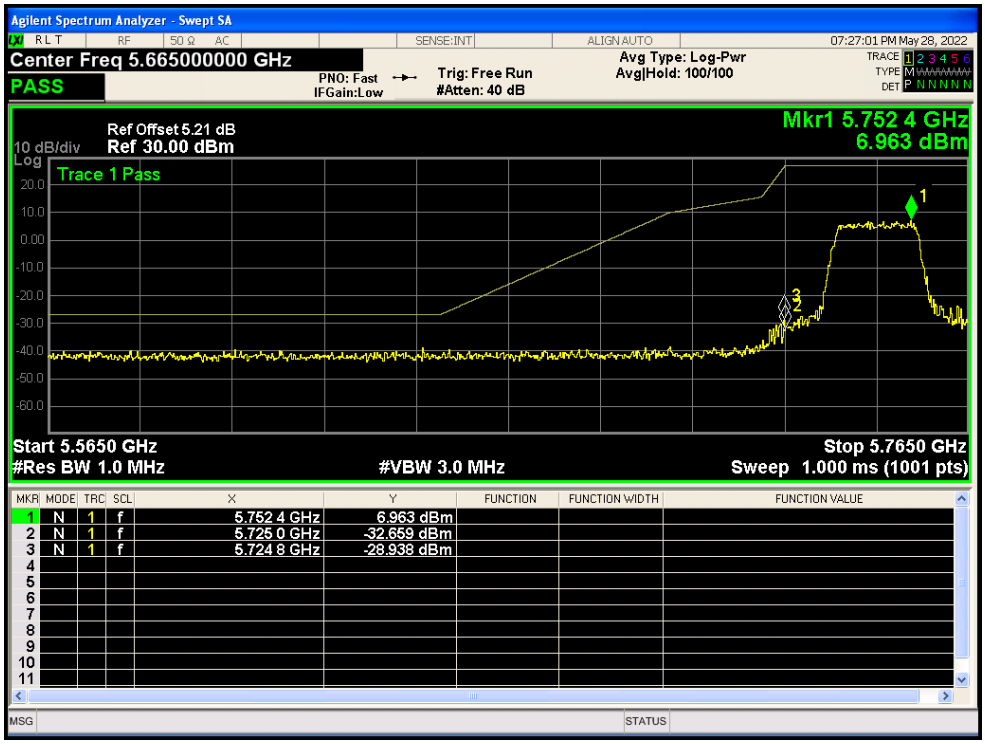
Band Edge NVNT a 5745MHz Low Ant1



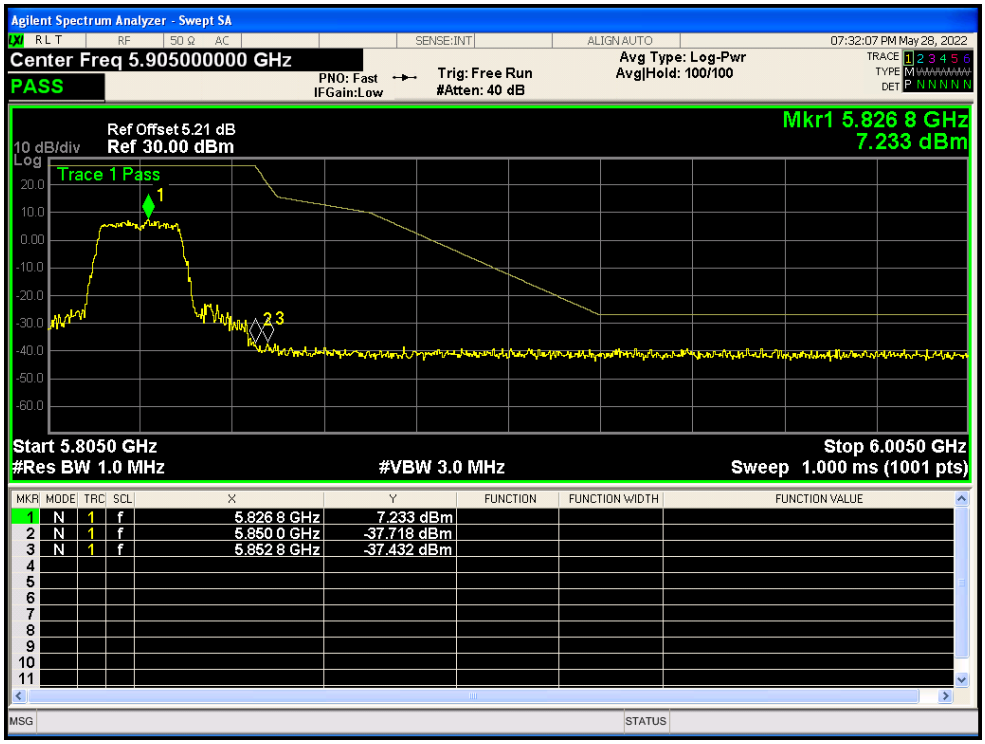
Band Edge NVNT a 5825MHz High Ant1



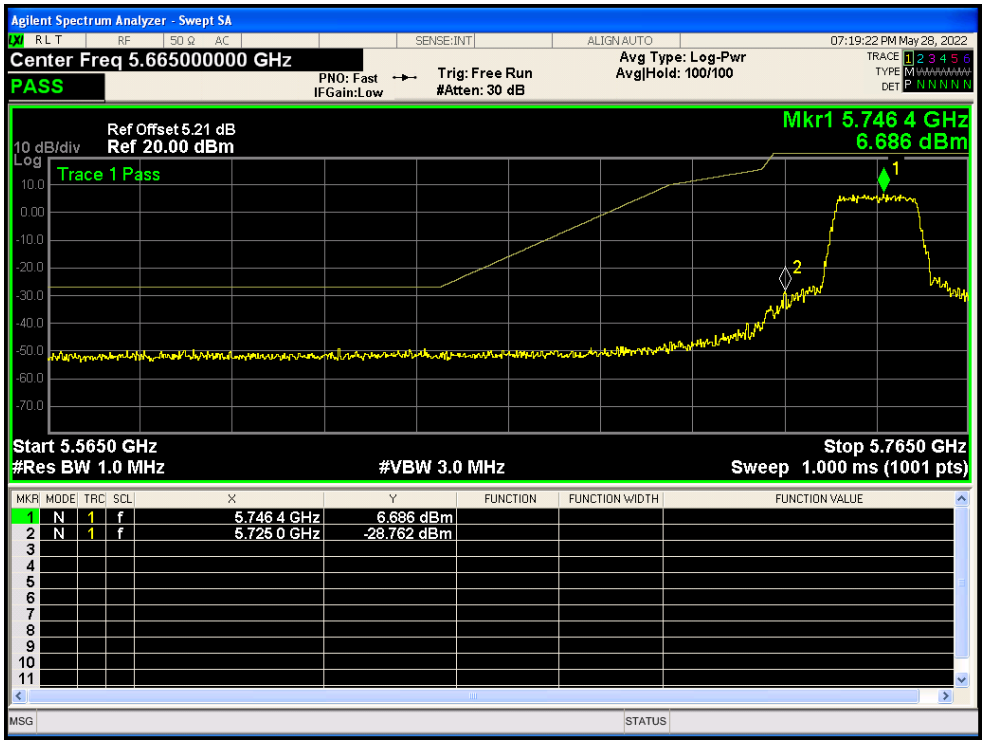
Band Edge NVNT ac20 5745MHz Low Ant1



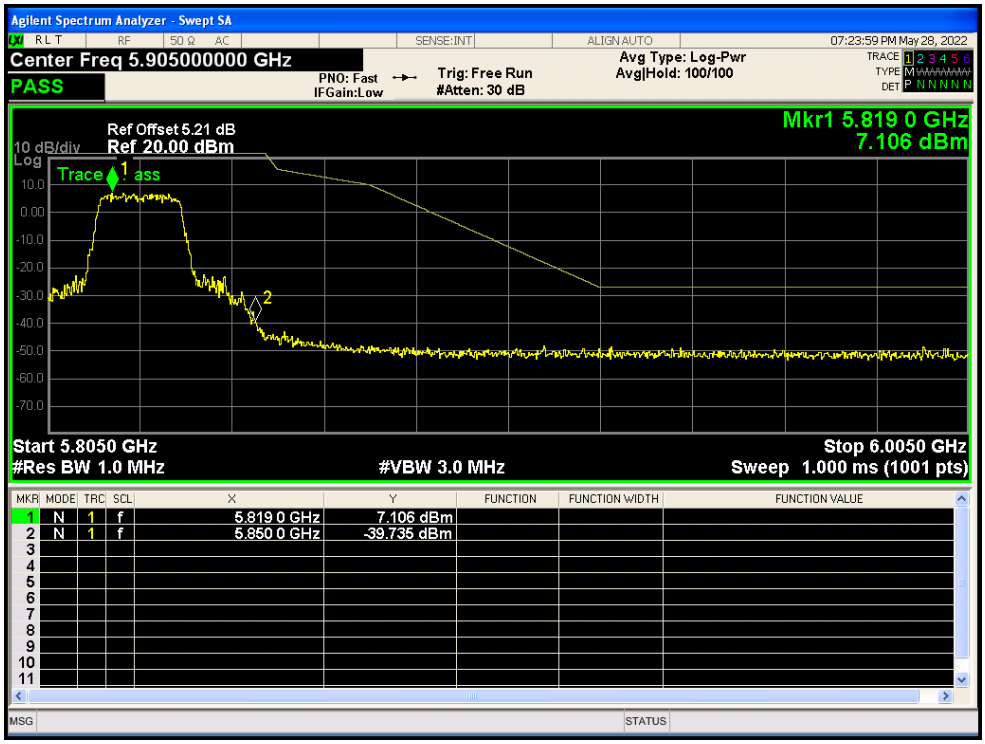
Band Edge NVNT ac20 5825MHz High Ant1



Band Edge NVNT n20 5745MHz Low Ant1



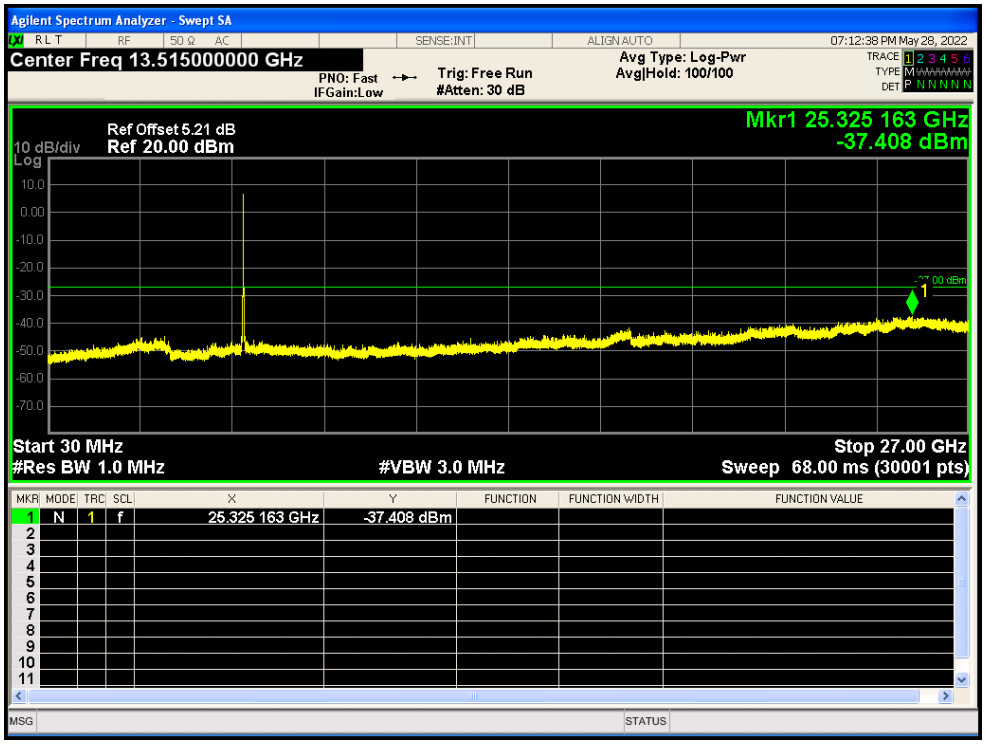
Band Edge NVNT n20 5825MHz High Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.905000000 GHz
PASS
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
07:23:59 PM May 28, 2022
Ref Offset 5.21 dB
10 dB/div Ref 20.00 dBm
Log
Mkr1 5.819 0 GHz
7.106 dBm
Start 5.8050 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 6.0050 GHz
Sweep 1.000 ms (1001 pts)
1 N 1 f 5.819 0 GHz 7.106 dBm
2 N 1 f 5.850 0 GHz -39.735 dBm

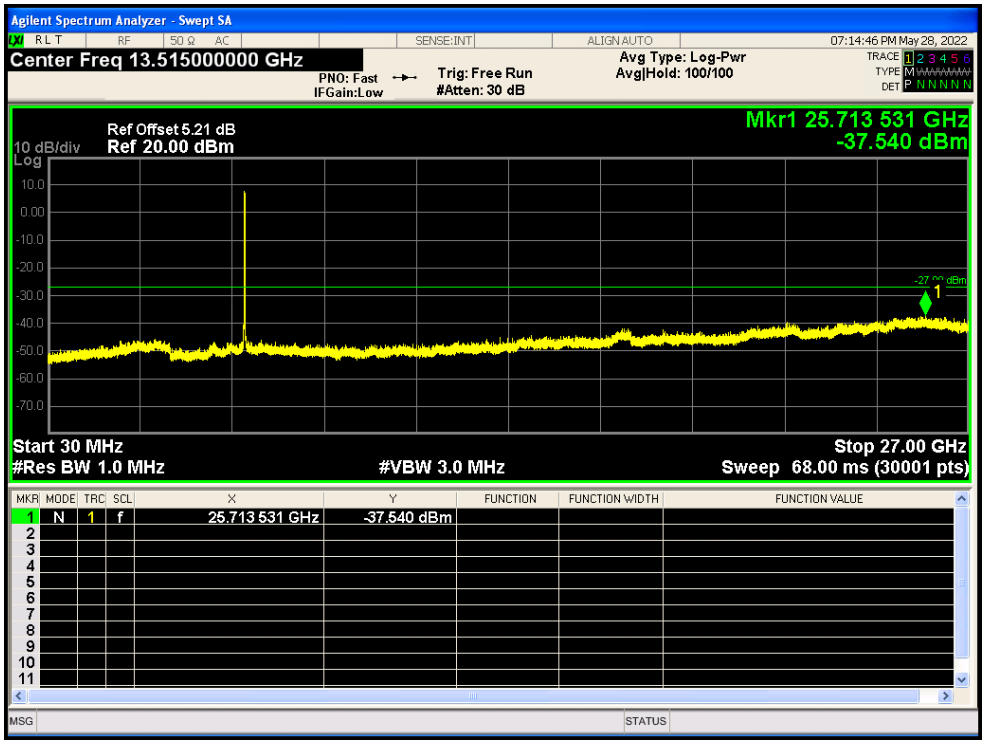
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5745	Ant1	-37.4	-27	Pass
NVNT	a	5785	Ant1	-37.53	-27	Pass
NVNT	a	5825	Ant1	-37.54	-27	Pass
NVNT	ac20	5745	Ant1	-37.85	-27	Pass
NVNT	ac20	5785	Ant1	-37.07	-27	Pass
NVNT	ac20	5825	Ant1	-37.14	-27	Pass
NVNT	n20	5745	Ant1	-37.38	-27	Pass
NVNT	n20	5785	Ant1	-37.14	-27	Pass
NVNT	n20	5825	Ant1	-37.35	-27	Pass

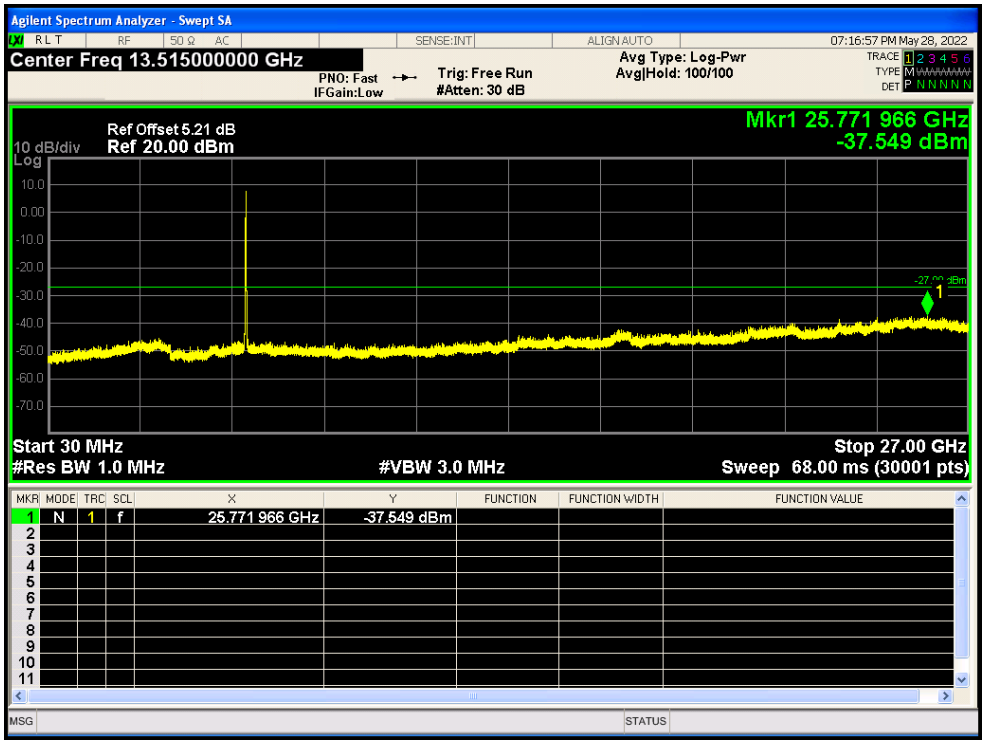
Tx. Spurious NVNT a 5745MHz Ant1 Emission



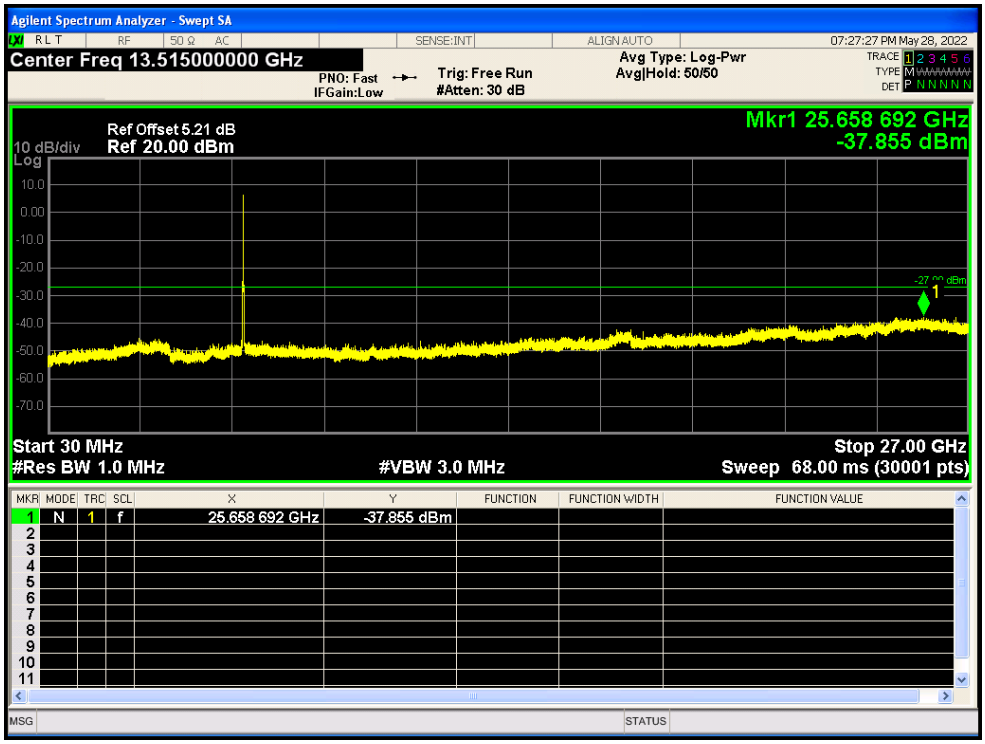
Tx. Spurious NVNT a 5785MHz Ant1 Emission



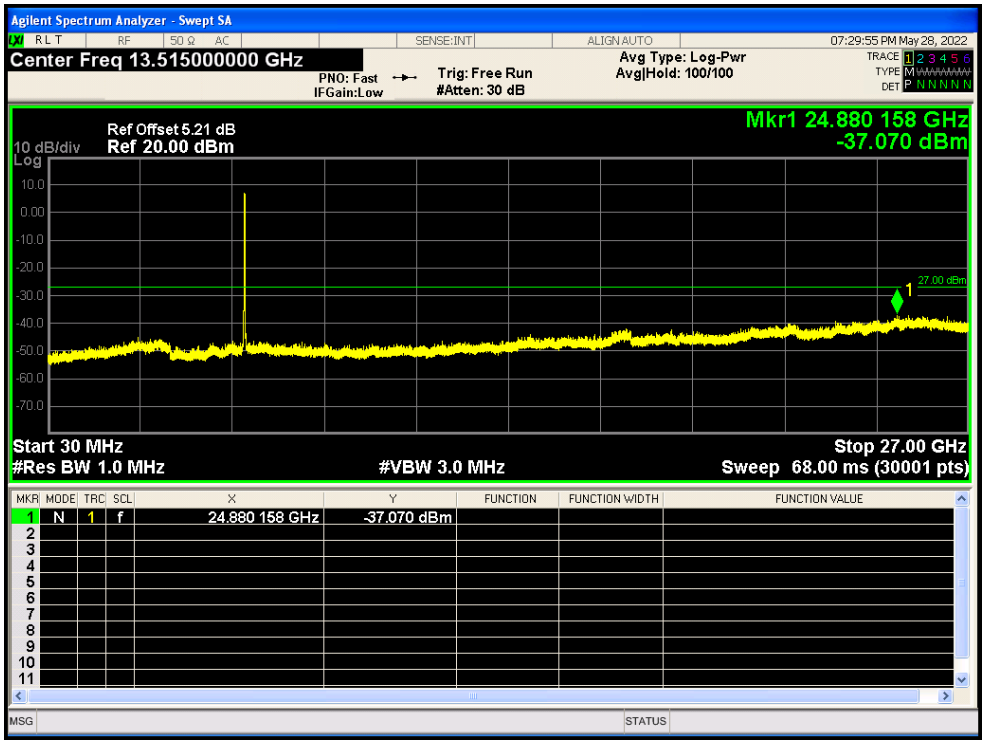
Tx. Spurious NVNT a 5825MHz Ant1 Emission



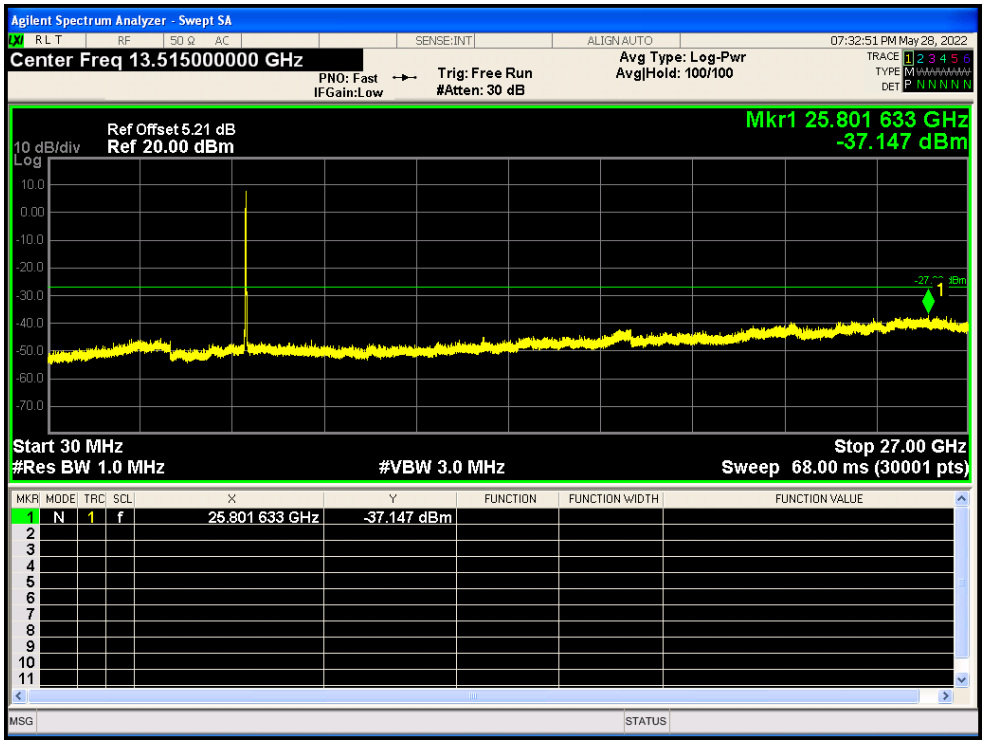
Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



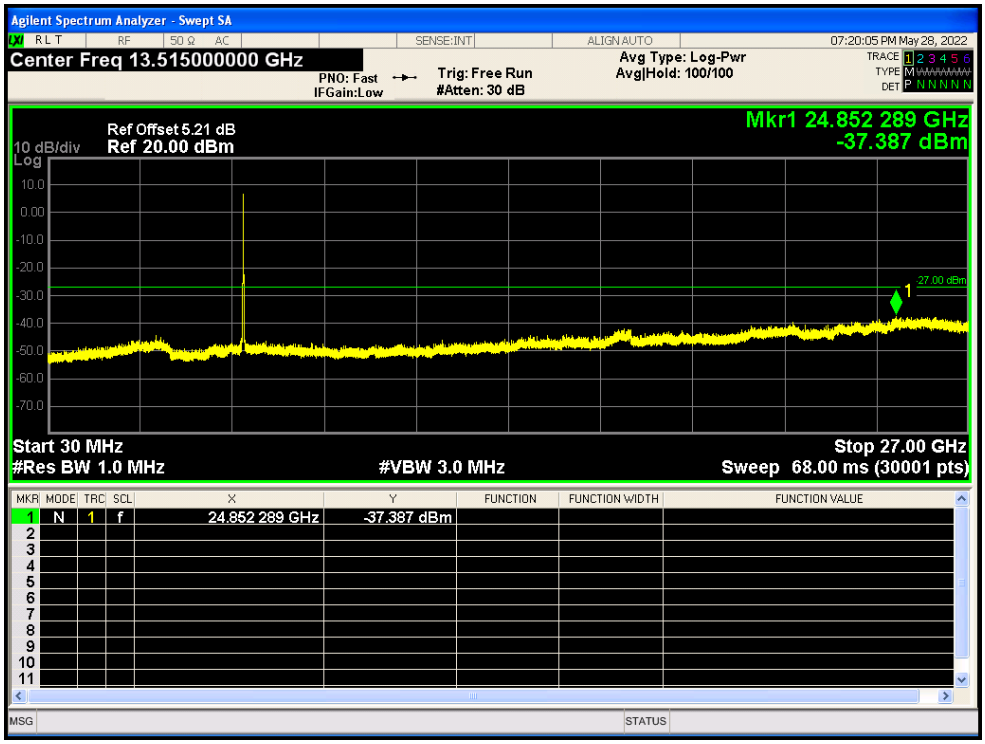
Tx. Spurious NVNT ac20 5785MHz Ant1 Emission



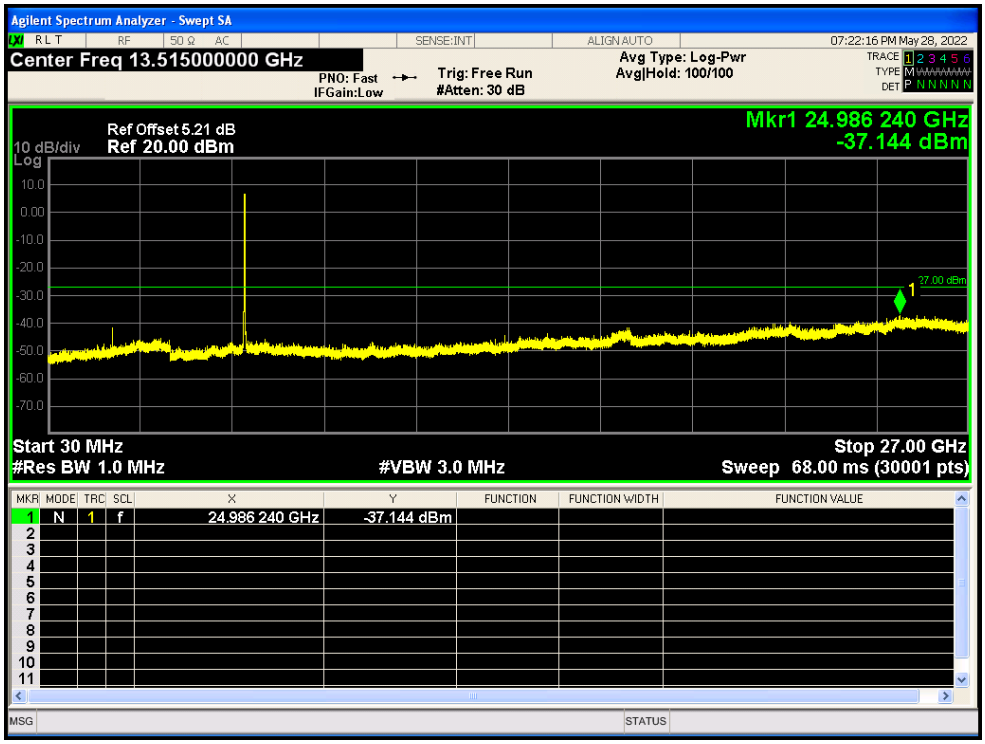
Tx. Spurious NVNT ac20 5825MHz Ant1 Emission



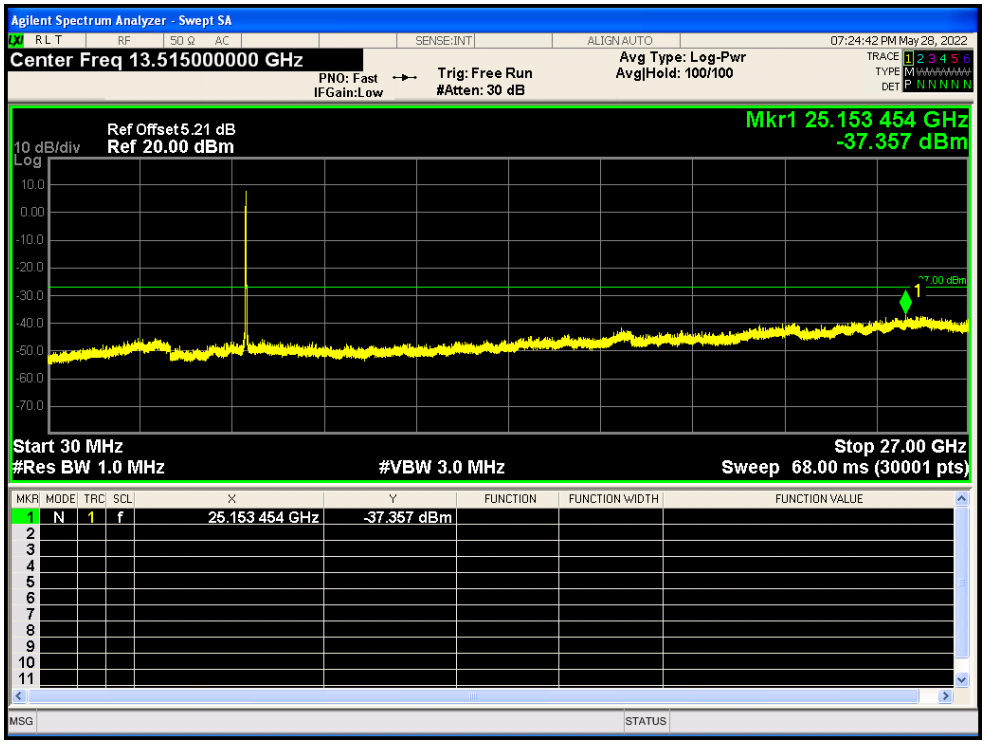
Tx. Spurious NVNT n20 5745MHz Ant1 Emission



Tx. Spurious NVNT n20 5785MHz Ant1 Emission



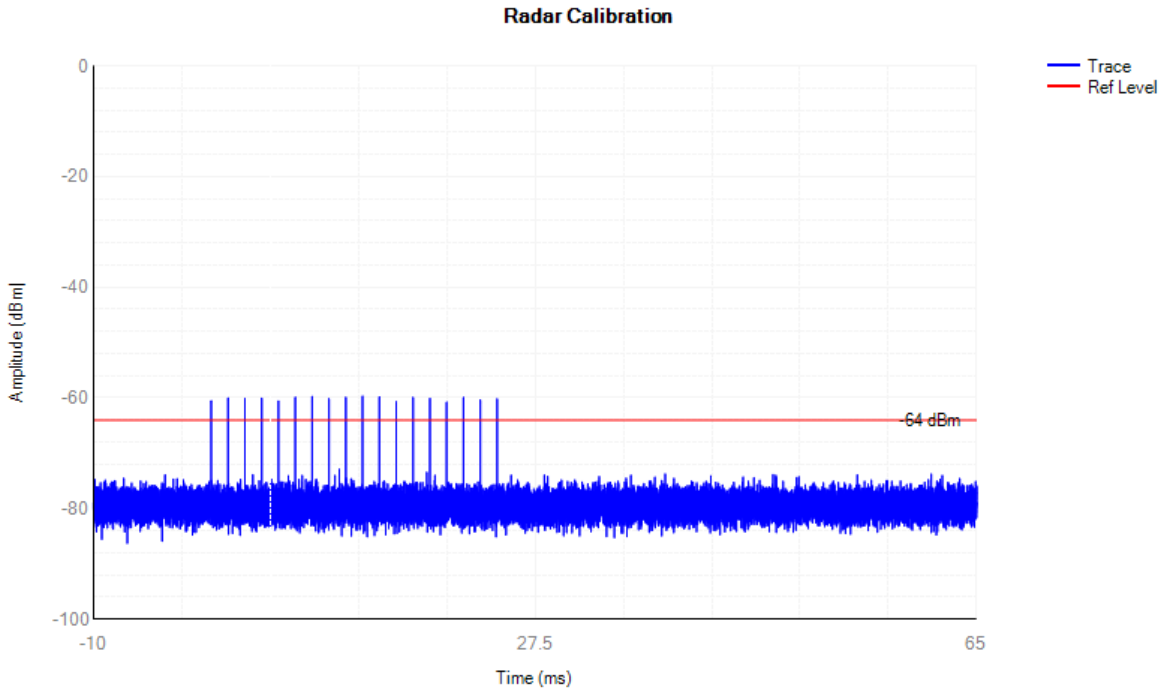
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



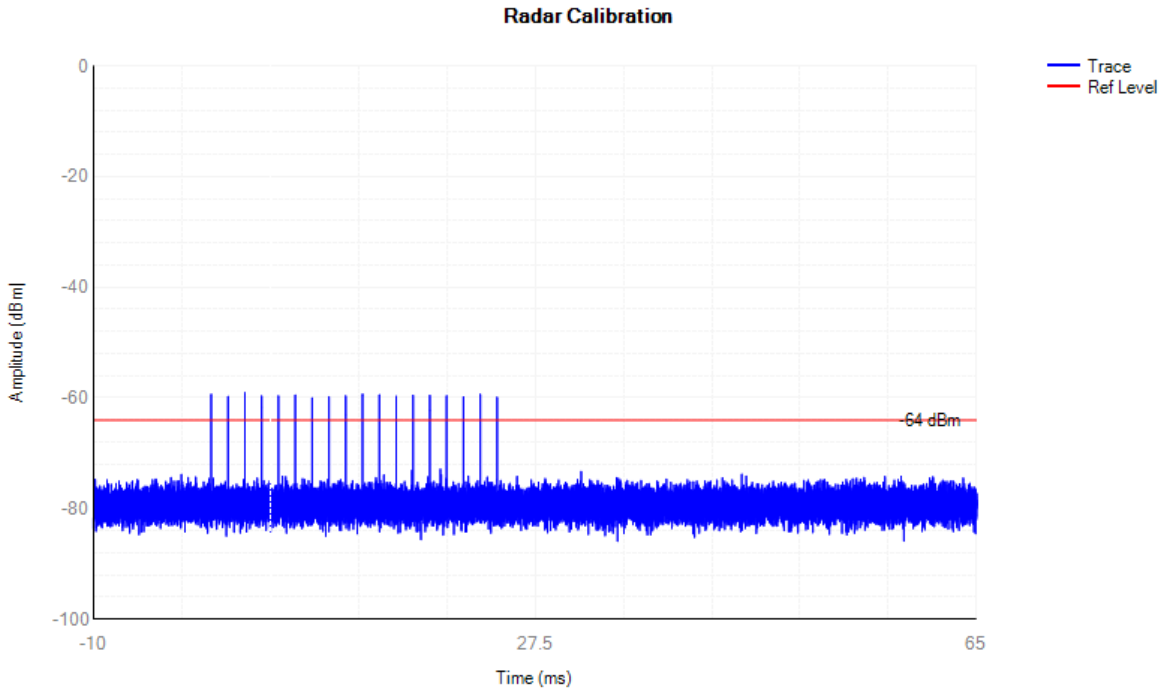
DFS:

Calibration

5320MHz a DFS_FCC_T0

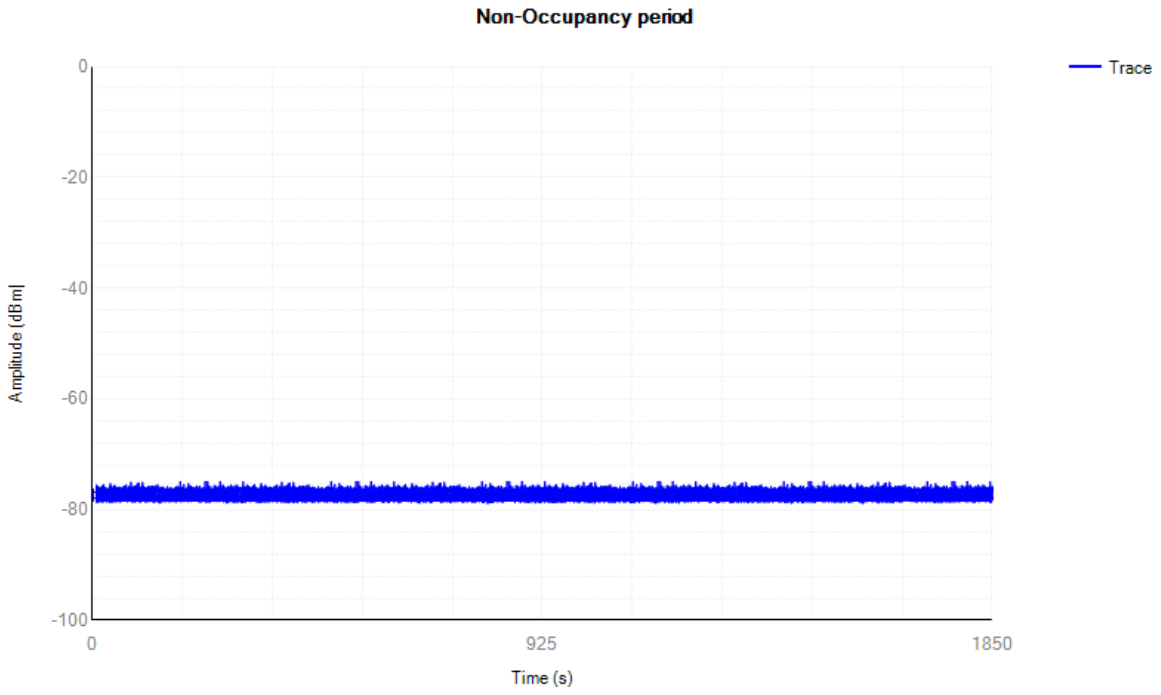


5500MHz a DFS_FCC_T0

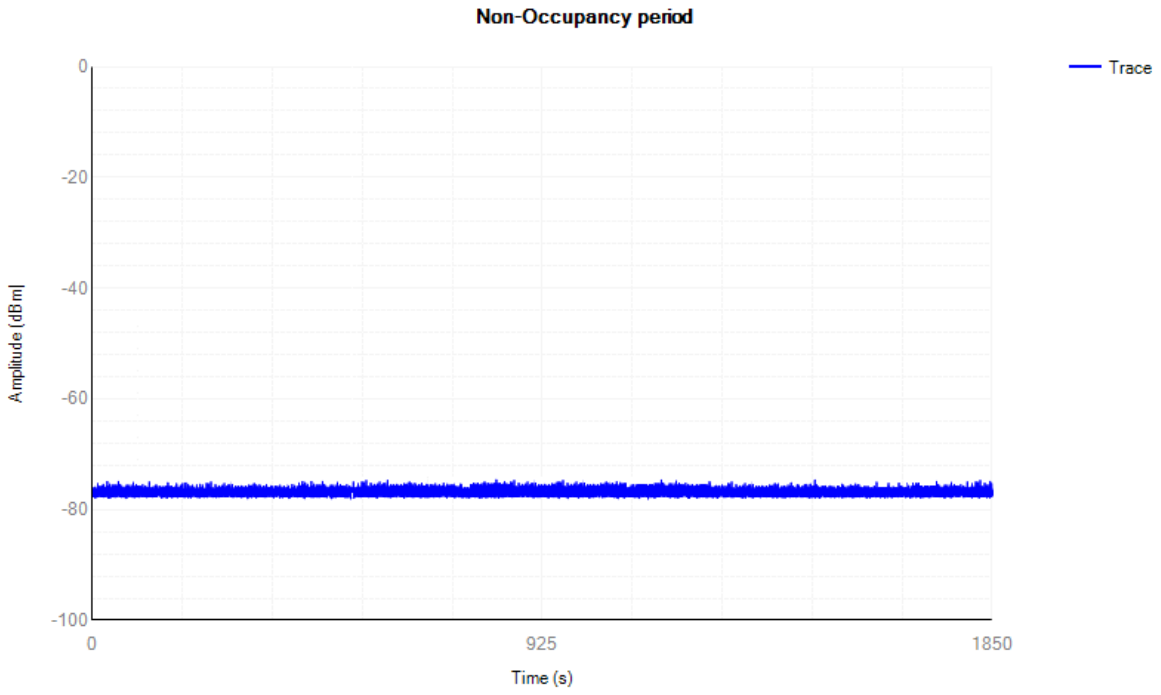


Non-Occupancy

5320MHz a Non-Occupancy



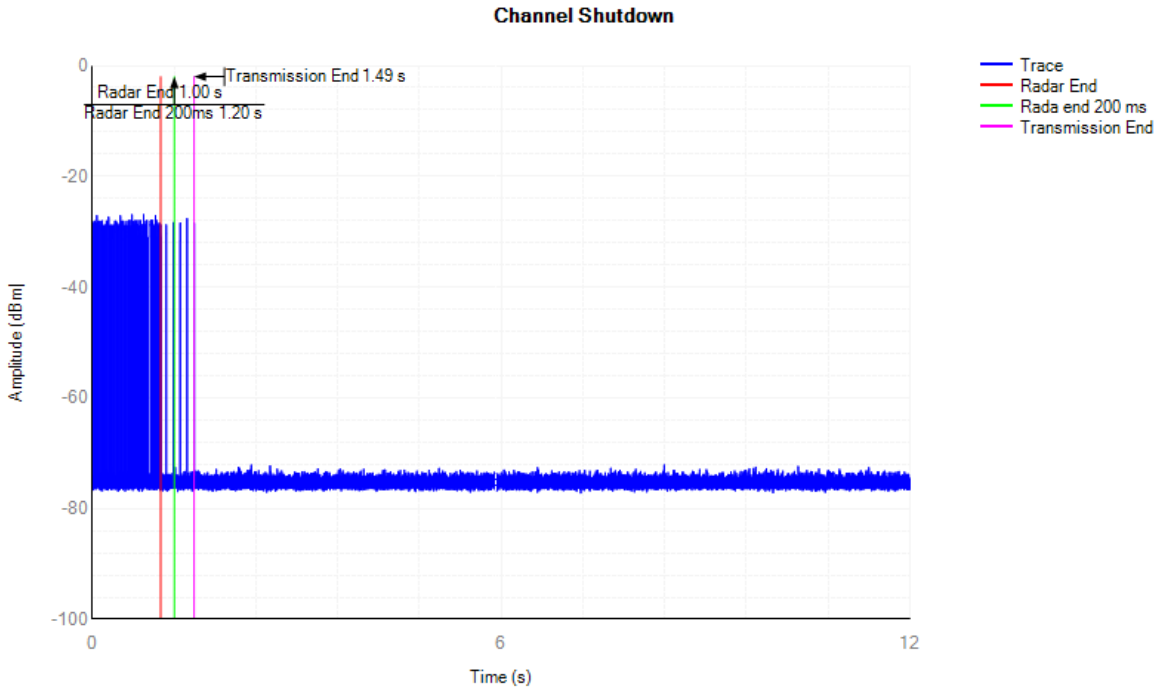
5500MHz a Non-Occupancy



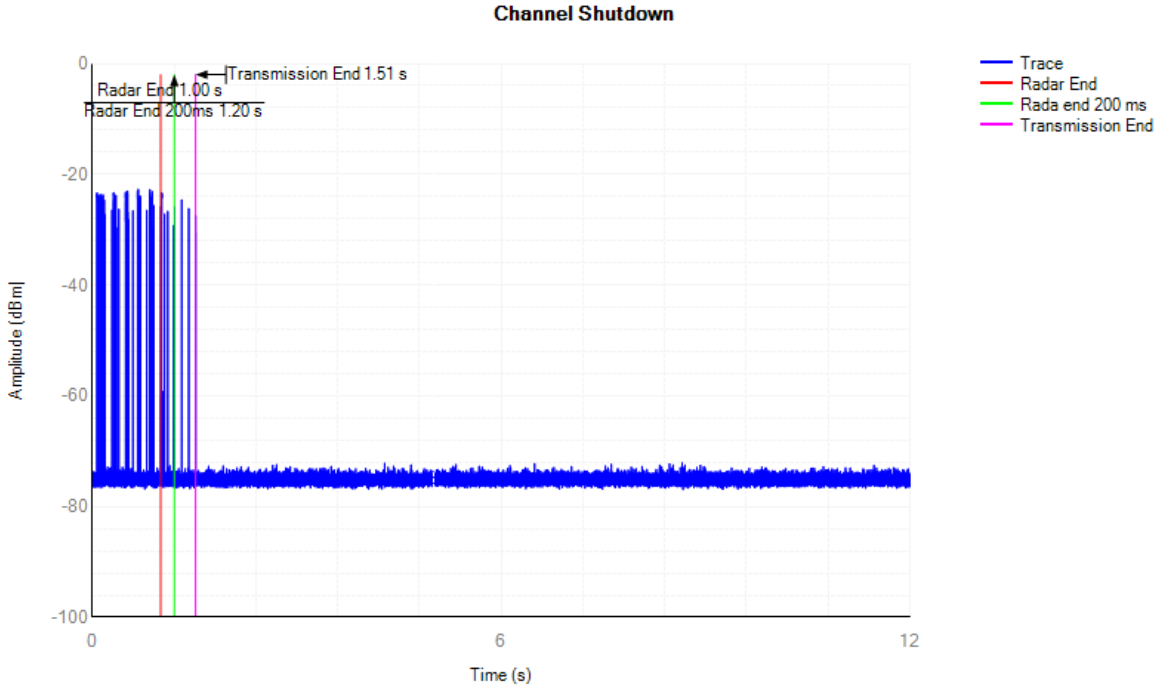
Shutdown Time

Mode	Frequency (MHz)	Channel Move Time (s)	Limit Channel Move Time (s)	Close Transmission Time (s)	Limit Close Transmission Time (s)	Close Transmission Time after 200ms(s)	Limit Close Transmission Time after 200ms (s)	Verdict
a	5320	0.4912	10	0.0052	0.26	0.0024	0.06	Pass
a	5500	0.514	10	0.0092	0.26	0.0024	0.06	Pass

5320MHz a Shutdown



5500MHz a Shutdown


Channel Shutdown
Transmission End 1.51 s
Radar End 1.00 s
Radar End 200ms 1.20 s
Trace
Radar End
Rada end 200 ms
Transmission End
Amplitude [dBm]
0
-20
-40
-60
-80
-100
0
6
12
Time (s)