Appendix B

RF Test Data for 5.5GWIFI (Conducted Measurement)

Product Name: IPTV Set-Top Box

Test Model: SML-5045W6

Environmental Conditions

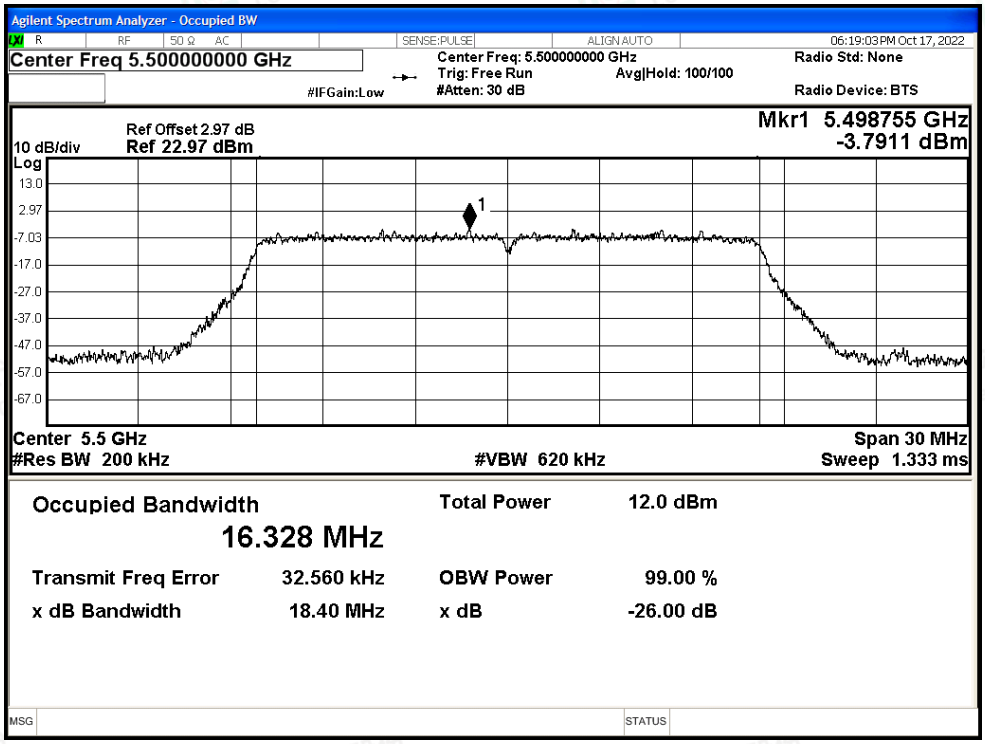
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ling Zhu
Supervised by:	Li Huan

B.1 -26dB Bandwidth

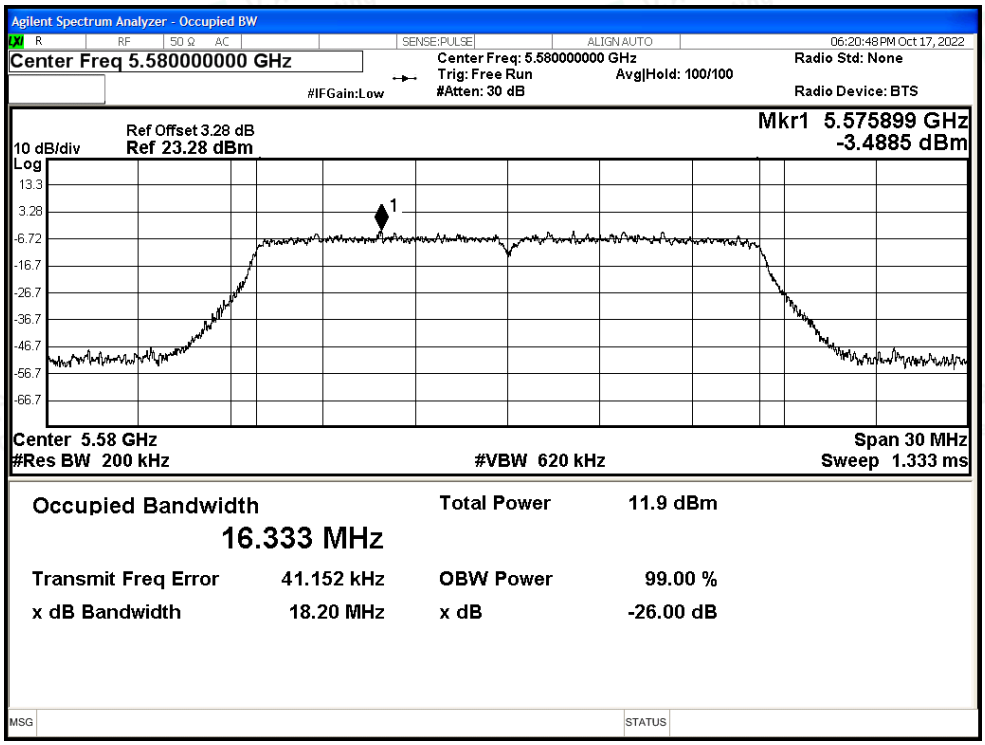
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	a	5500	Ant0	18.40
NVNT	a	5580	Ant0	18.20
NVNT	a	5700	Ant0	18.33
NVNT	n20	5500	Ant0	18.33
NVNT	n20	5580	Ant0	18.35
NVNT	n20	5700	Ant0	18.30
NVNT	n40	5510	Ant0	39.08
NVNT	n40	5550	Ant0	39.10
NVNT	n40	5670	Ant0	38.77
NVNT	ac20	5500	Ant0	18.25
NVNT	ac20	5580	Ant0	18.43
NVNT	ac20	5700	Ant0	18.48
NVNT	ac40	5510	Ant0	38.82
NVNT	ac40	5550	Ant0	38.65
NVNT	ac40	5670	Ant0	38.70
NVNT	ac80	5530	Ant0	87.55
NVNT	ac80	5610	Ant0	86.29
NVNT	ax20	5500	Ant0	20.52
NVNT	ax20	5580	Ant0	20.46
NVNT	ax20	5700	Ant0	20.55
NVNT	ax40	5510	Ant0	39.68
NVNT	ax40	5550	Ant0	39.45
NVNT	ax40	5670	Ant0	39.73
NVNT	ax80	5530	Ant0	80.94
NVNT	ax80	5610	Ant0	80.99

Test Graphs

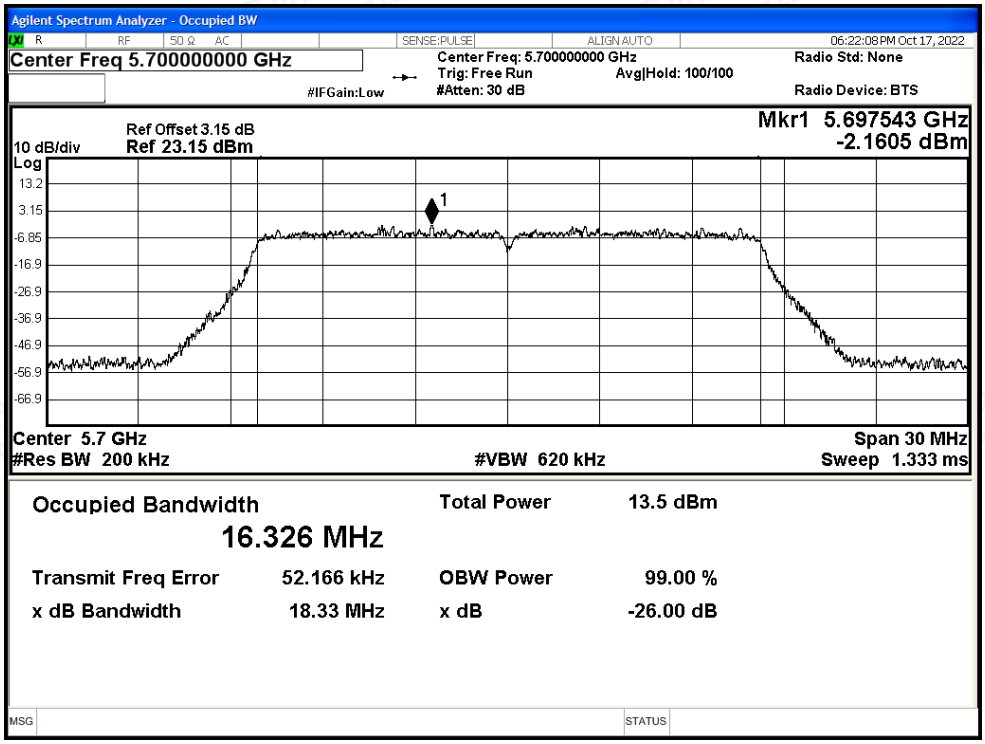
-26dB Bandwidth NVNT a 5500MHz Ant0



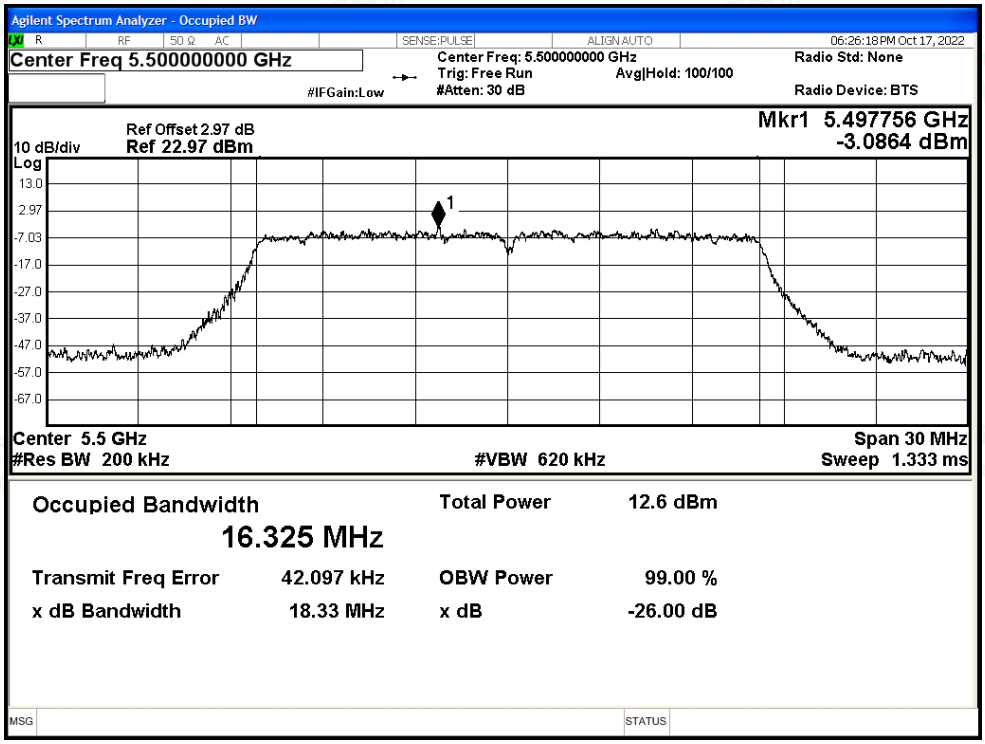
-26dB Bandwidth NVNT a 5580MHz Ant0



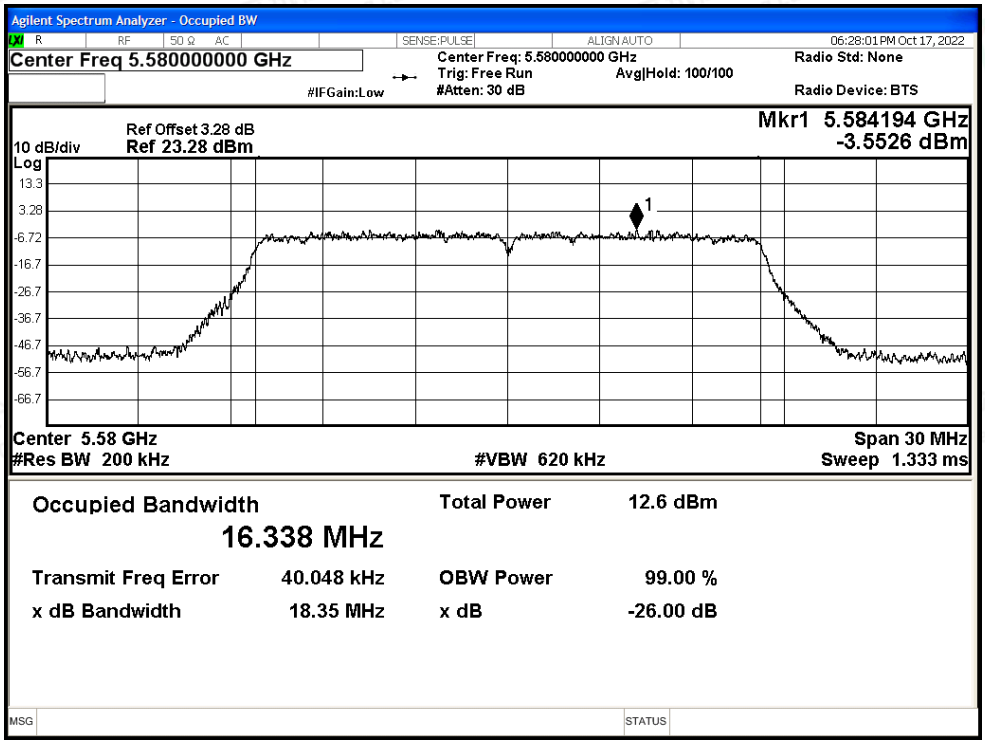
-26dB Bandwidth NVNT a 5700MHz Ant0



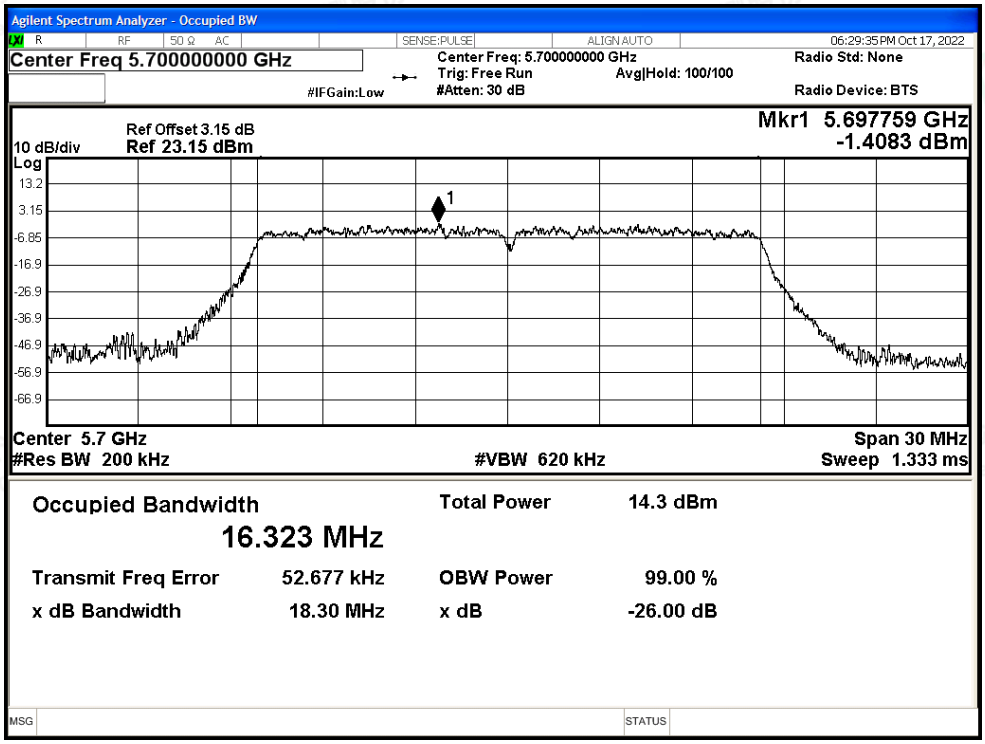
-26dB Bandwidth NVNT n20 5500MHz Ant0



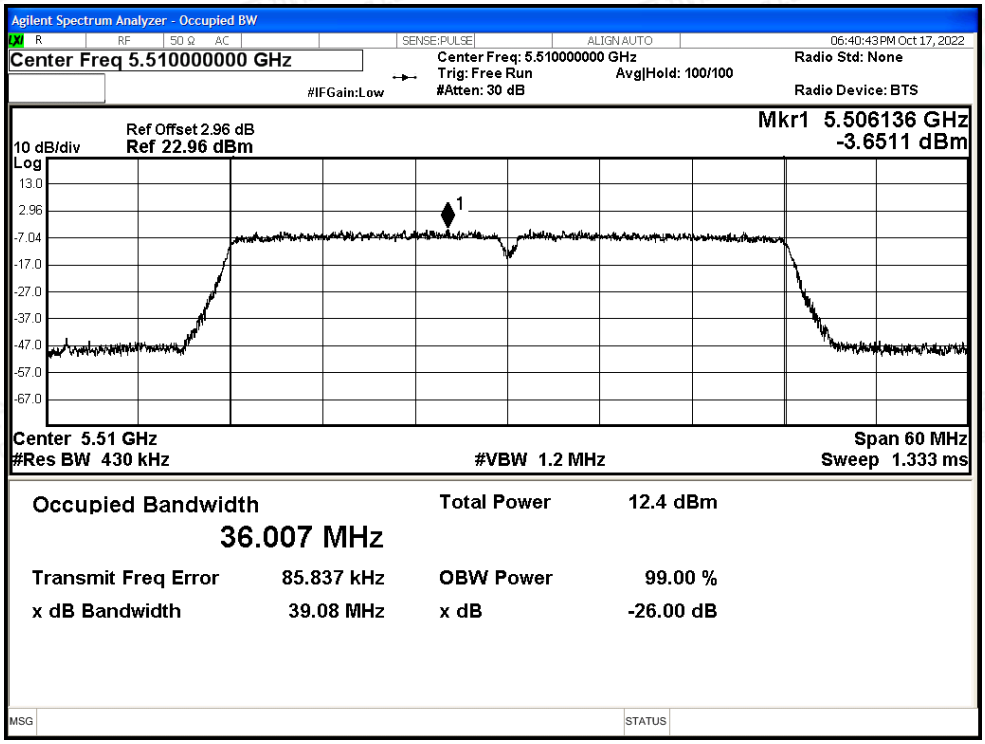
-26dB Bandwidth NVNT n20 5580MHz Ant0



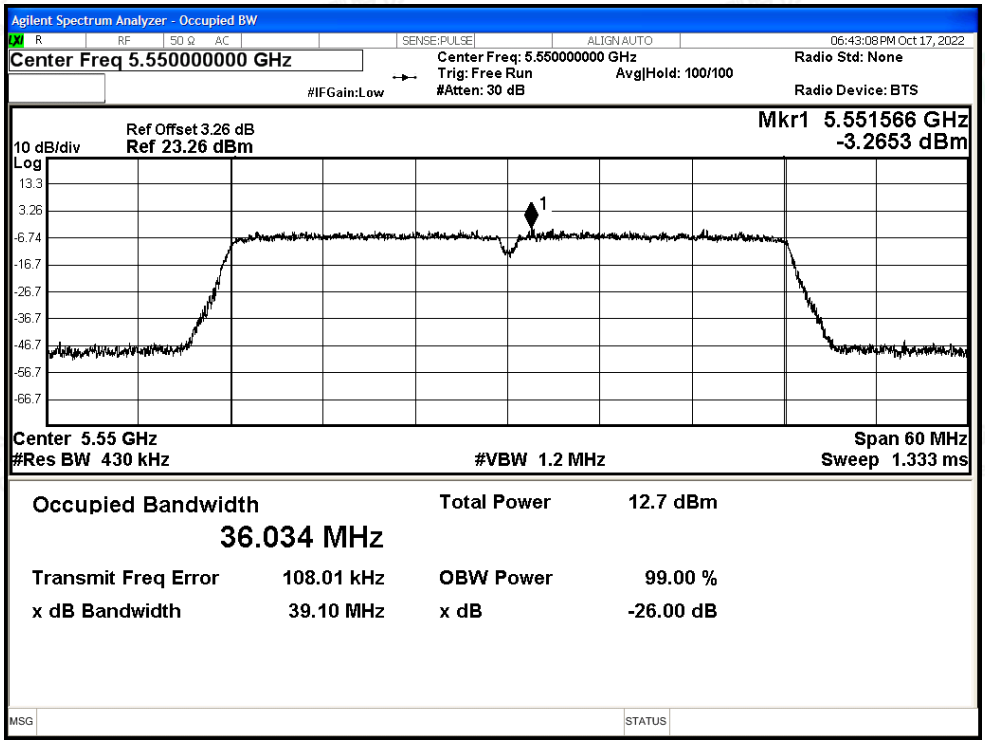
-26dB Bandwidth NVNT n20 5700MHz Ant0



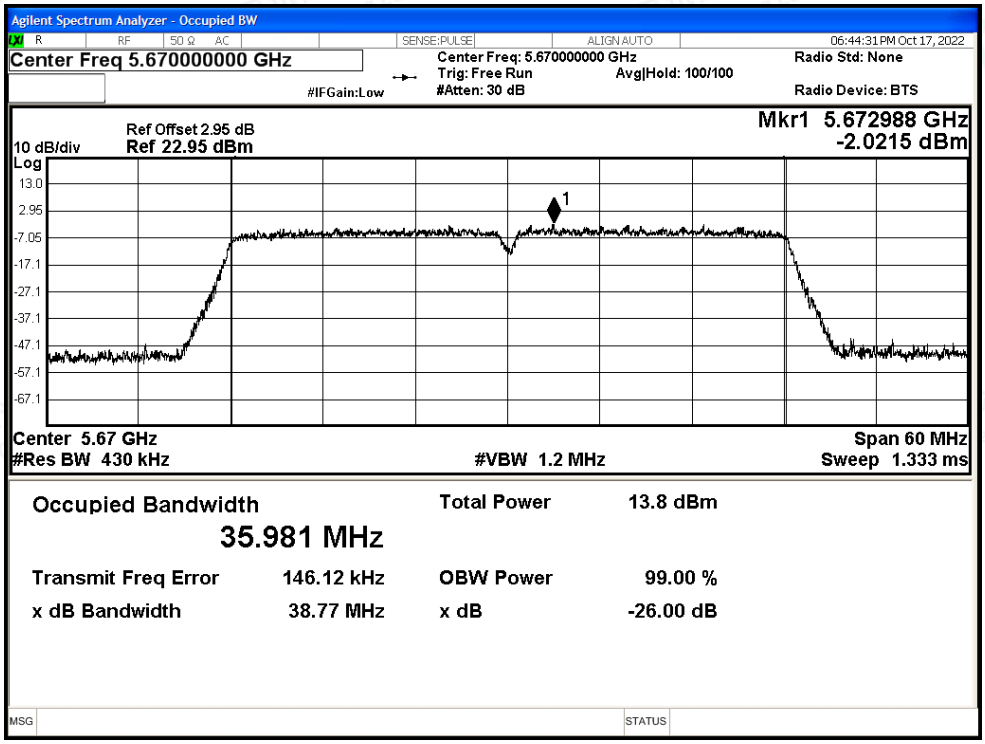
-26dB Bandwidth NVNT n40 5510MHz Ant0



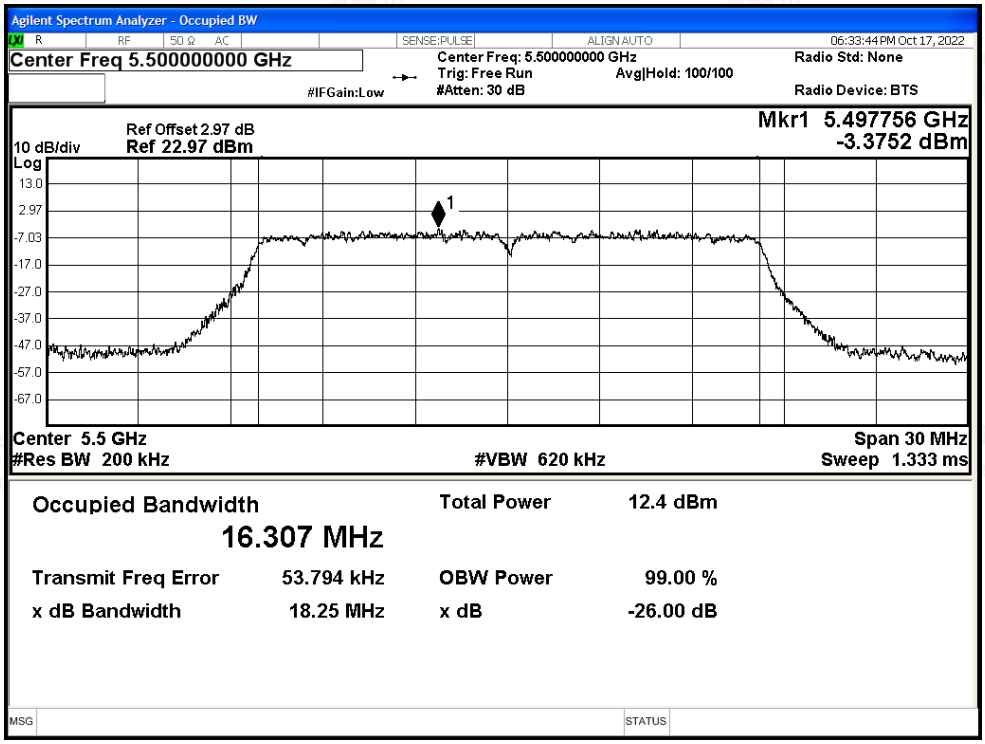
-26dB Bandwidth NVNT n40 5550MHz Ant0



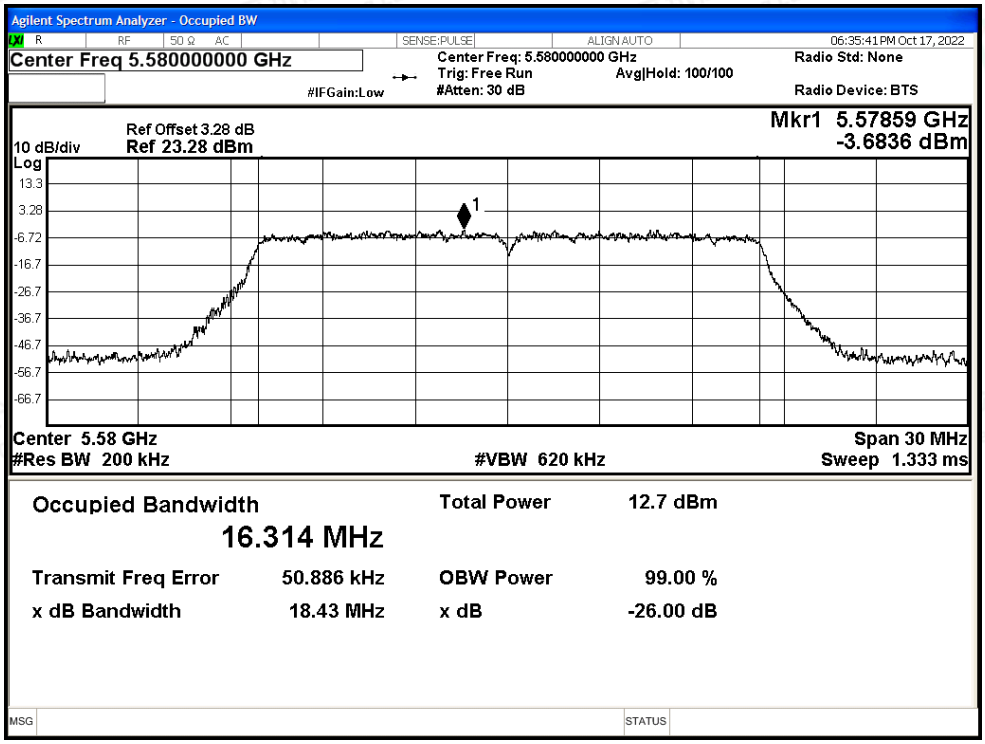
-26dB Bandwidth NVNT n40 5670MHz Ant0



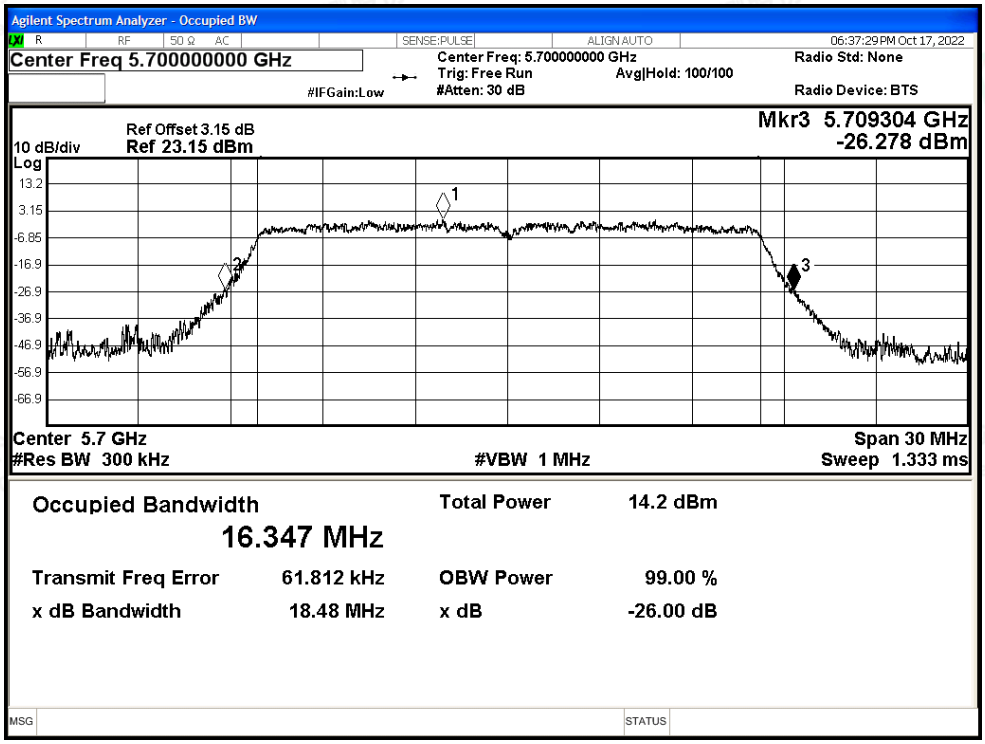
-26dB Bandwidth NVNT ac20 5500MHz Ant0



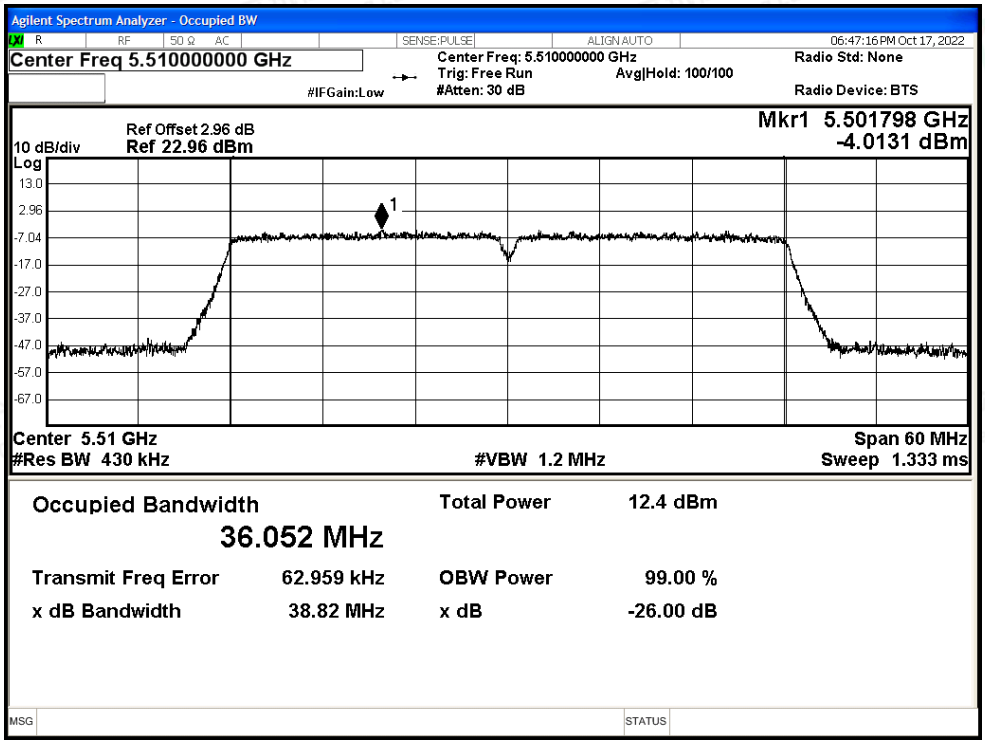
-26dB Bandwidth NVNT ac20 5580MHz Ant0



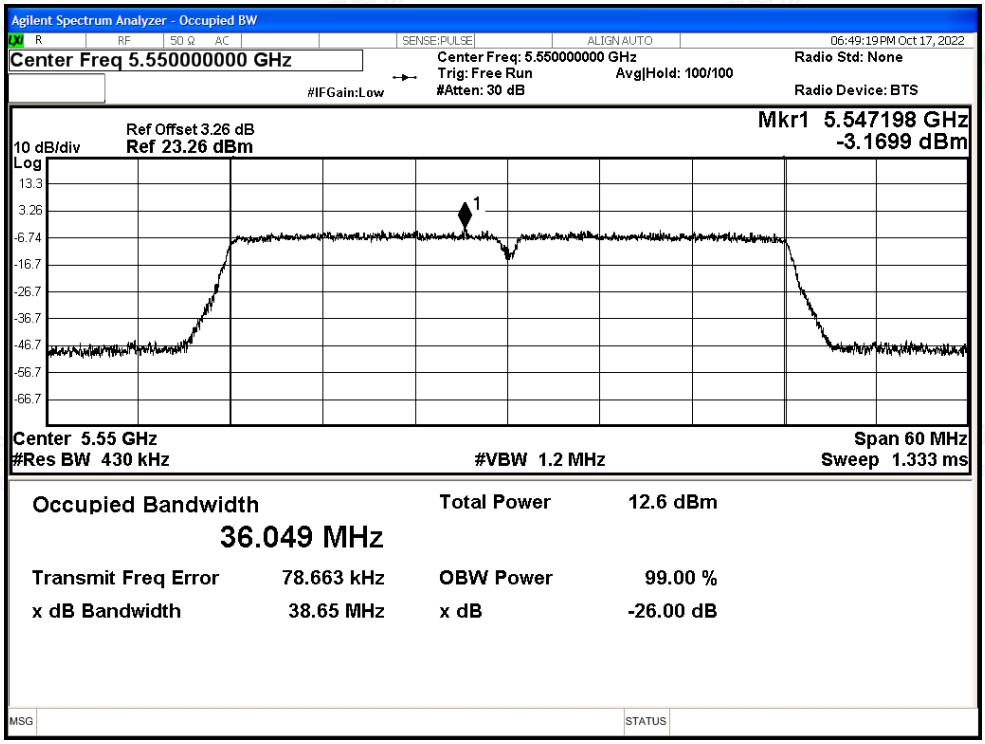
-26dB Bandwidth NVNT ac20 5700MHz Ant0



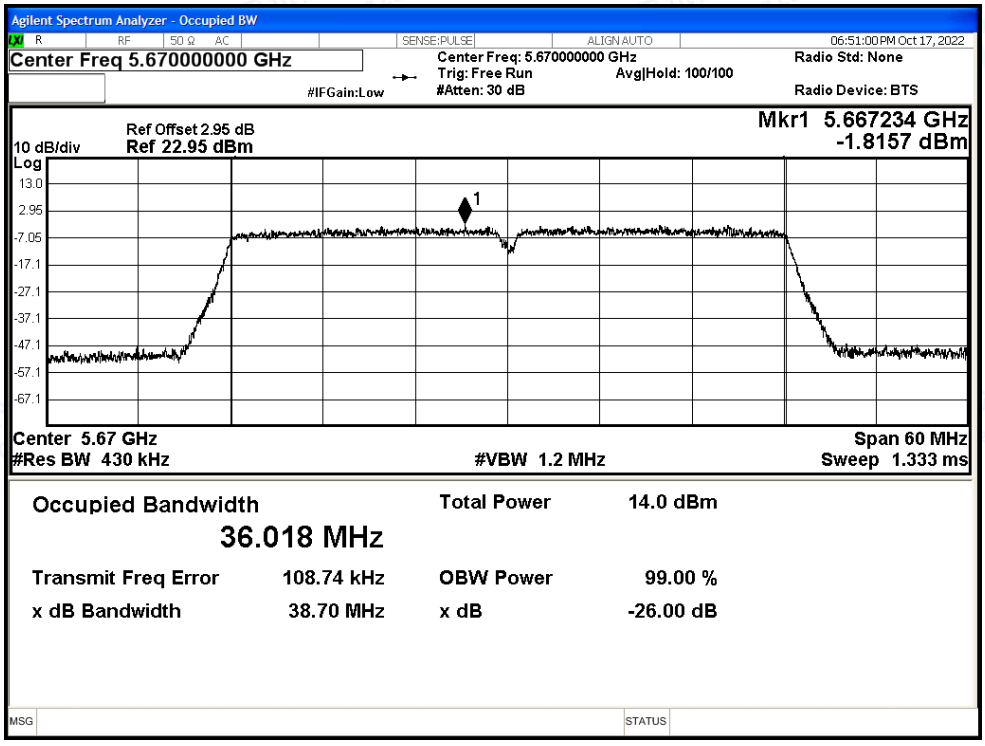
-26dB Bandwidth NVNT ac40 5510MHz Ant0



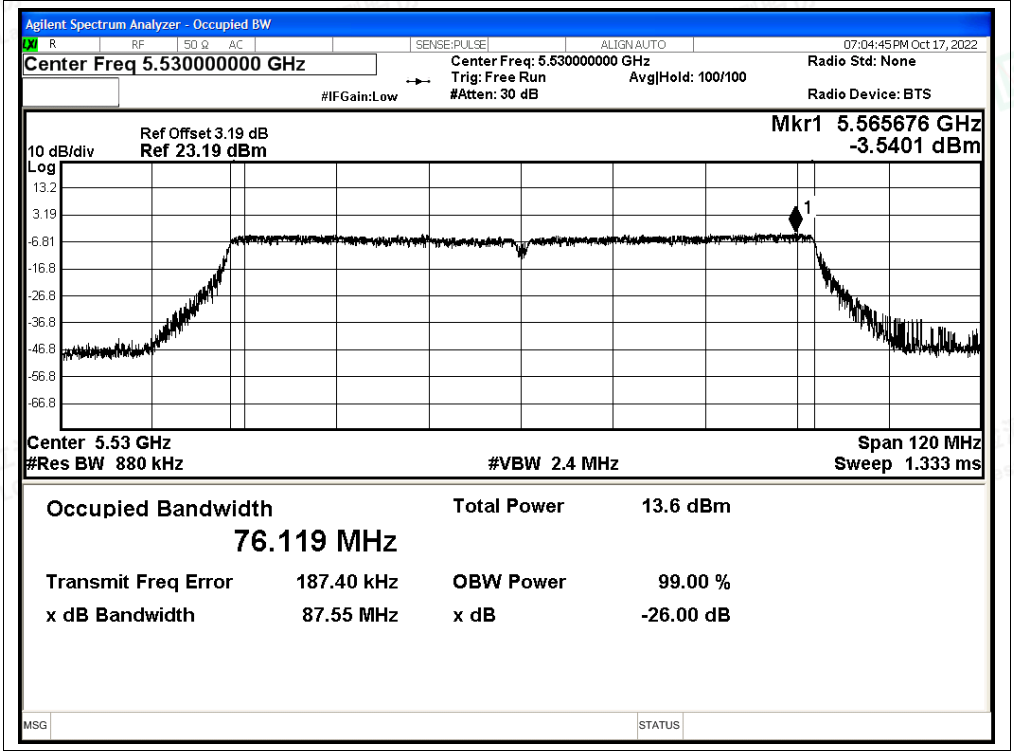
-26dB Bandwidth NVNT ac40 5550MHz Ant0



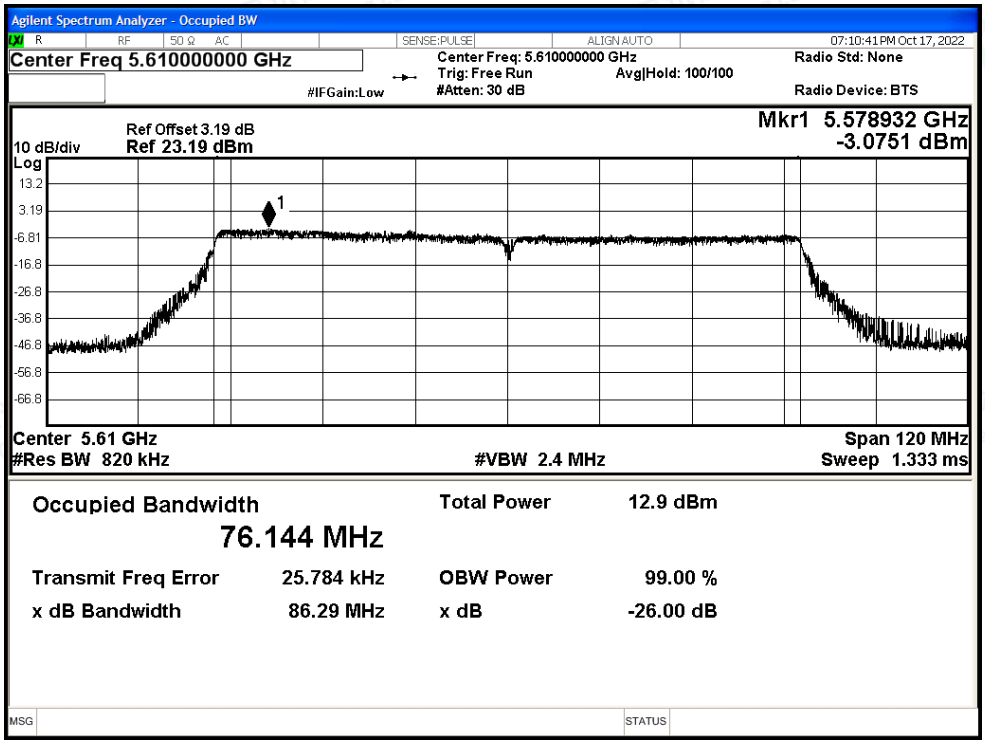
-26dB Bandwidth NVNT ac40 5670MHz Ant0



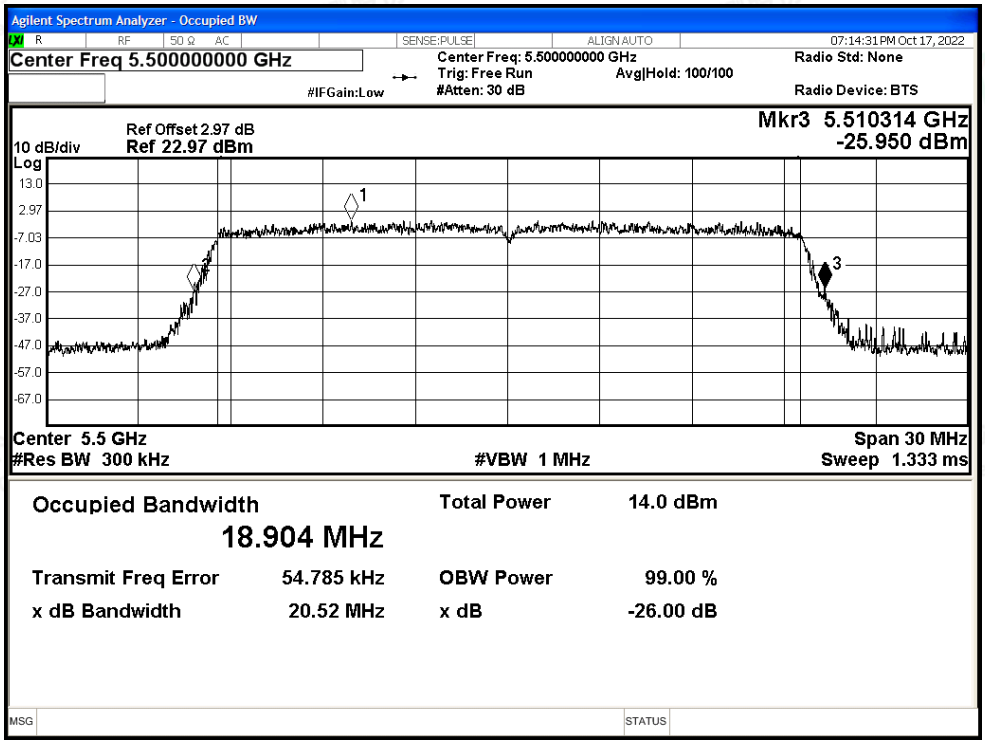
-26dB Bandwidth NVNT ac80 5530MHz Ant0



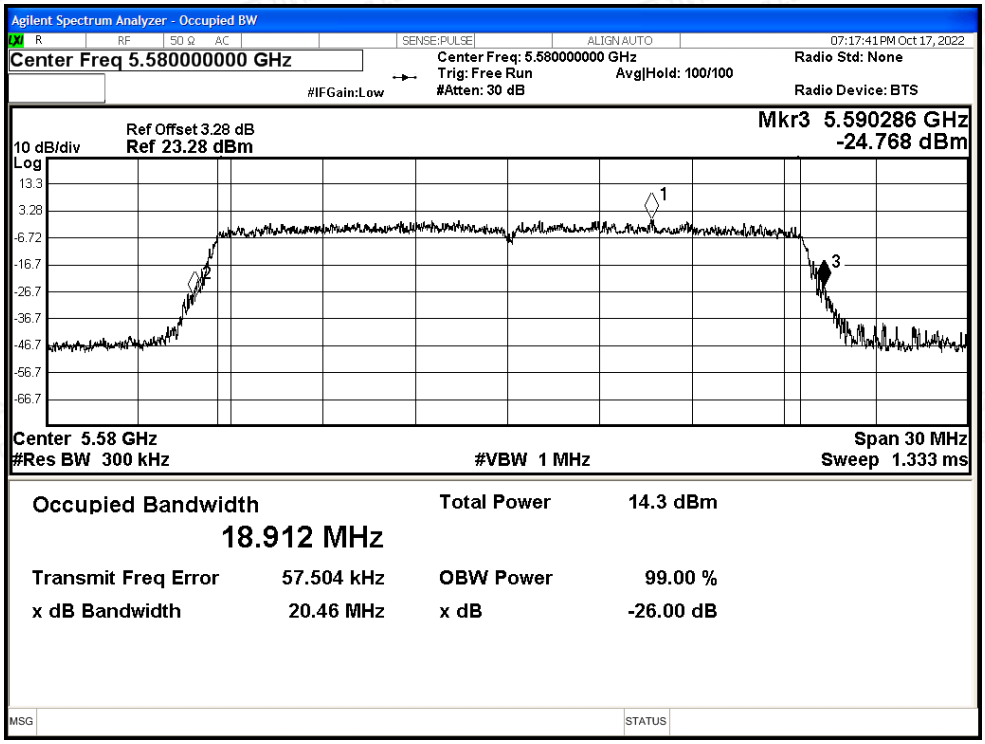
-26dB Bandwidth NVNT ac80 5610MHz Ant0



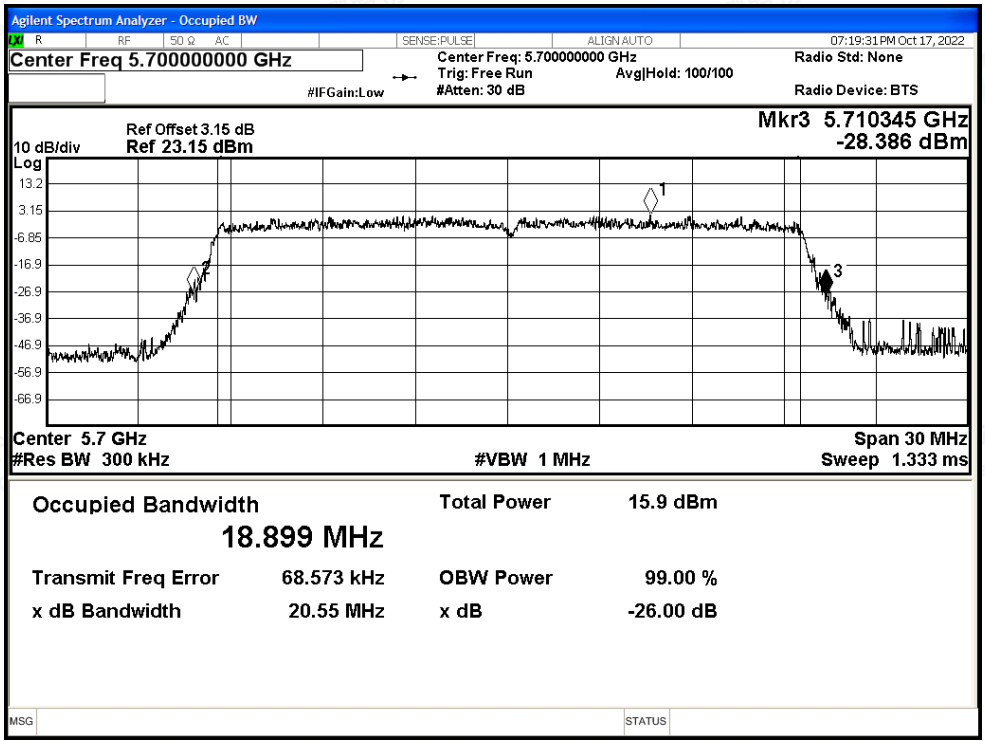
-26dB Bandwidth NVNT ax20 5500MHz Ant0



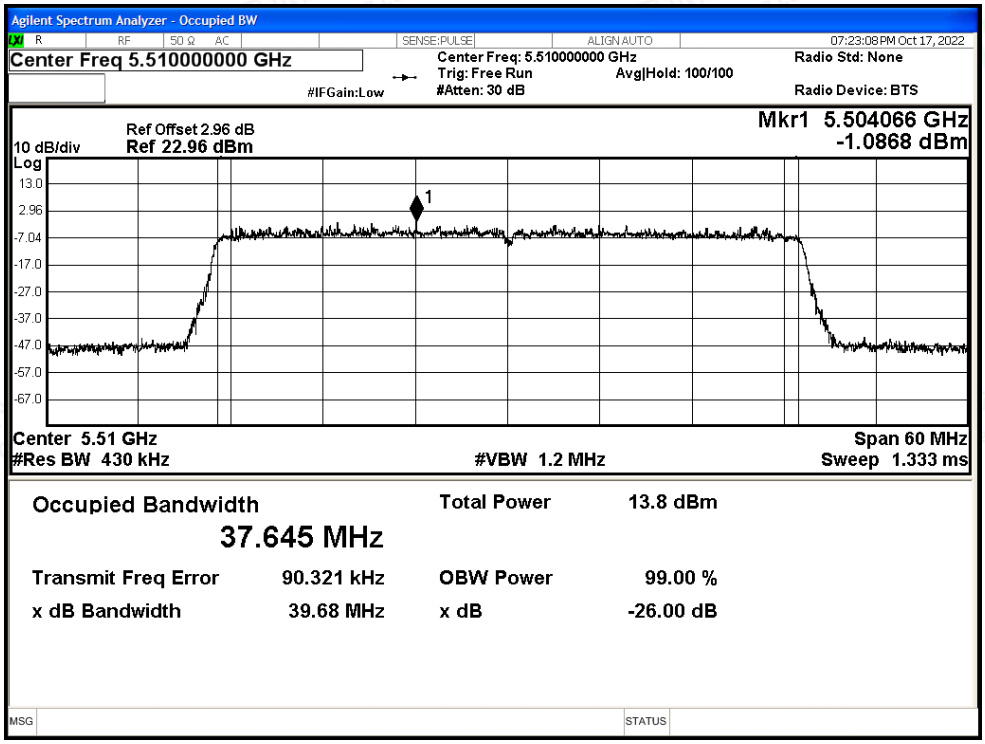
-26dB Bandwidth NVNT ax20 5580MHz Ant0



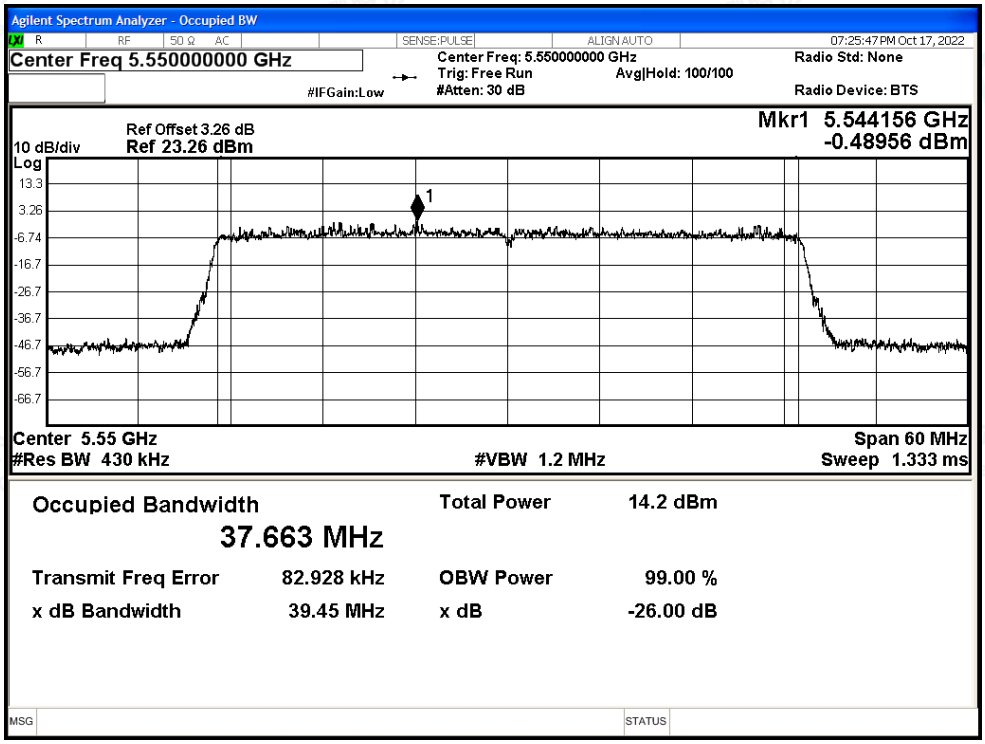
-26dB Bandwidth NVNT ax20 5700MHz Ant0



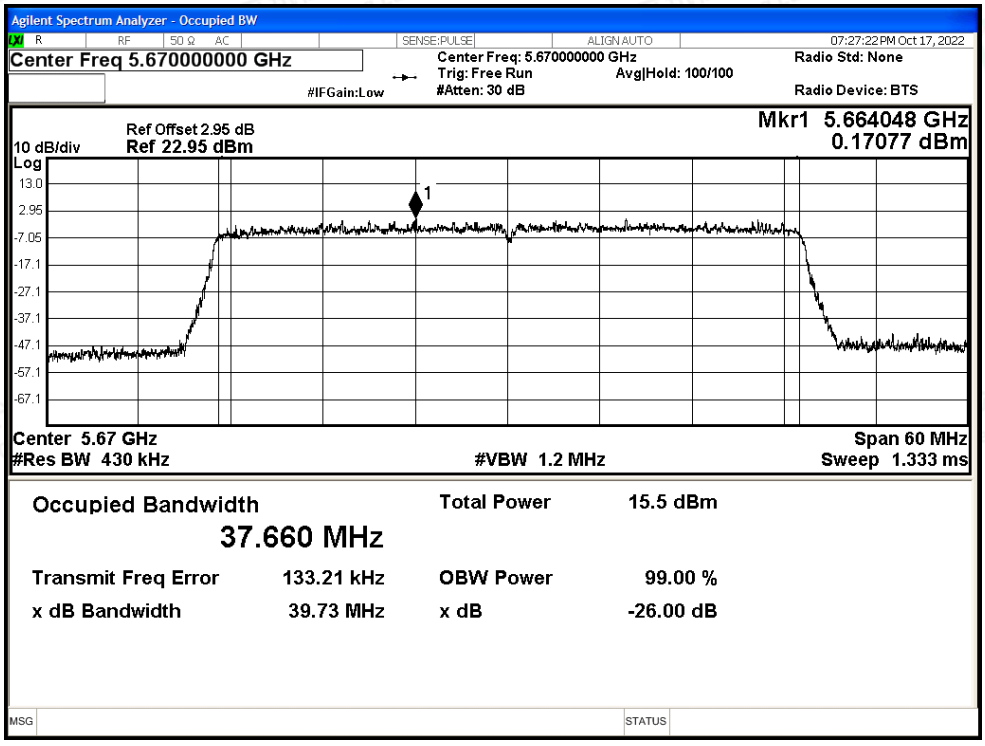
-26dB Bandwidth NVNT ax40 5510MHz Ant0



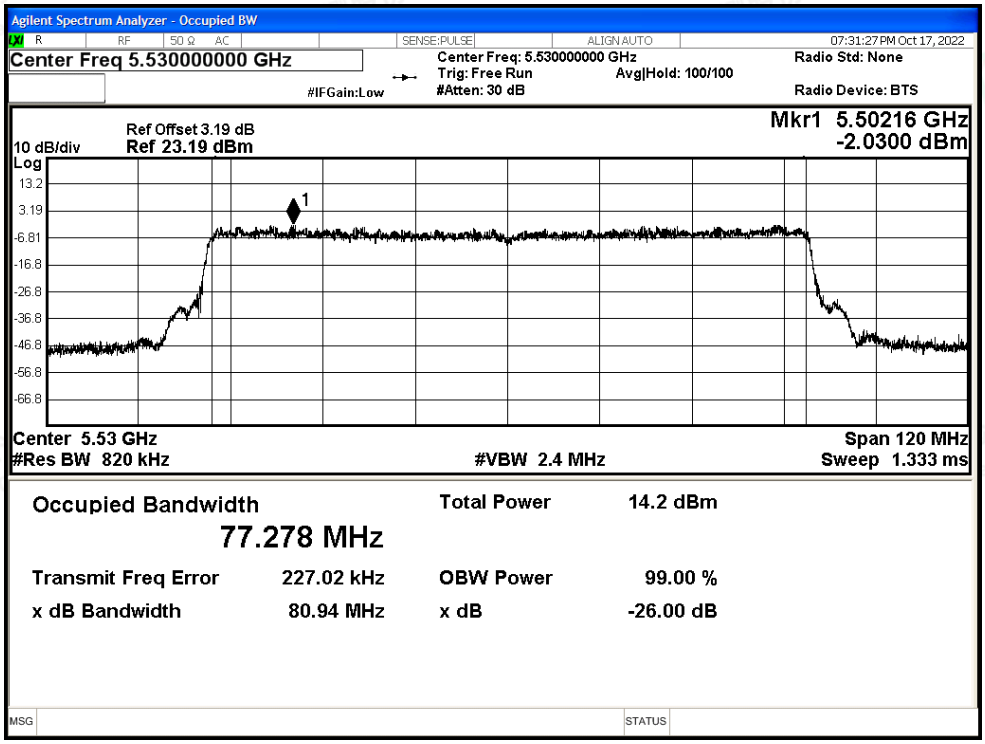
-26dB Bandwidth NVNT ax40 5550MHz Ant0



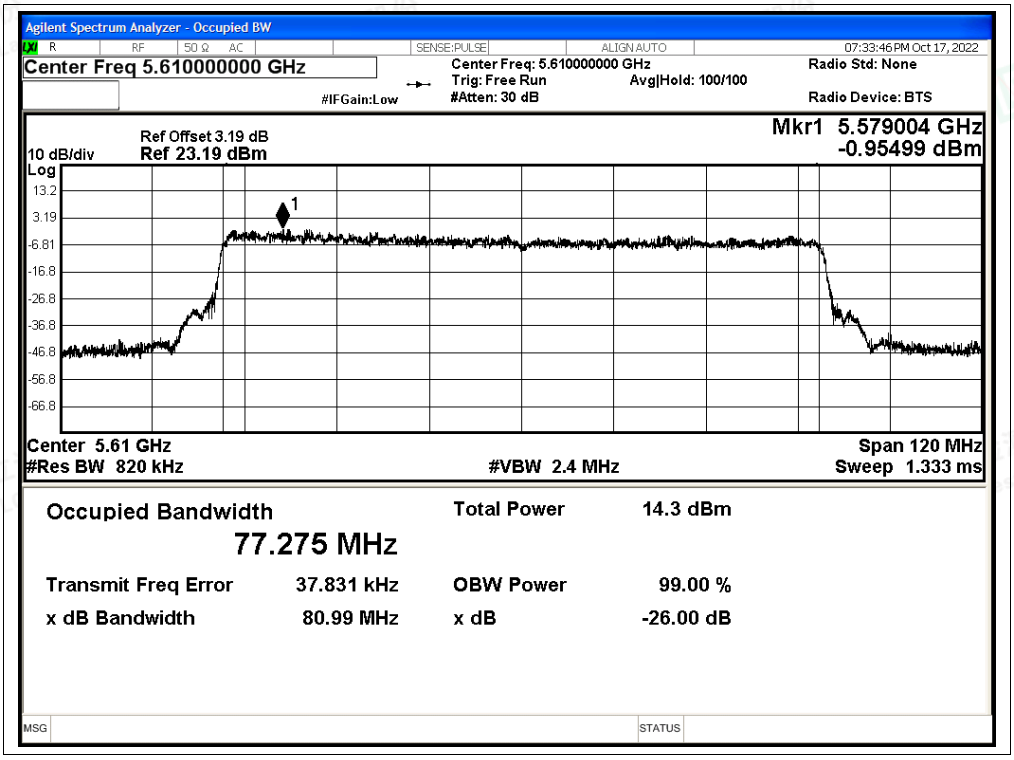
-26dB Bandwidth NVNT ax40 5670MHz Ant0



-26dB Bandwidth NVNT ax80 5530MHz Ant0



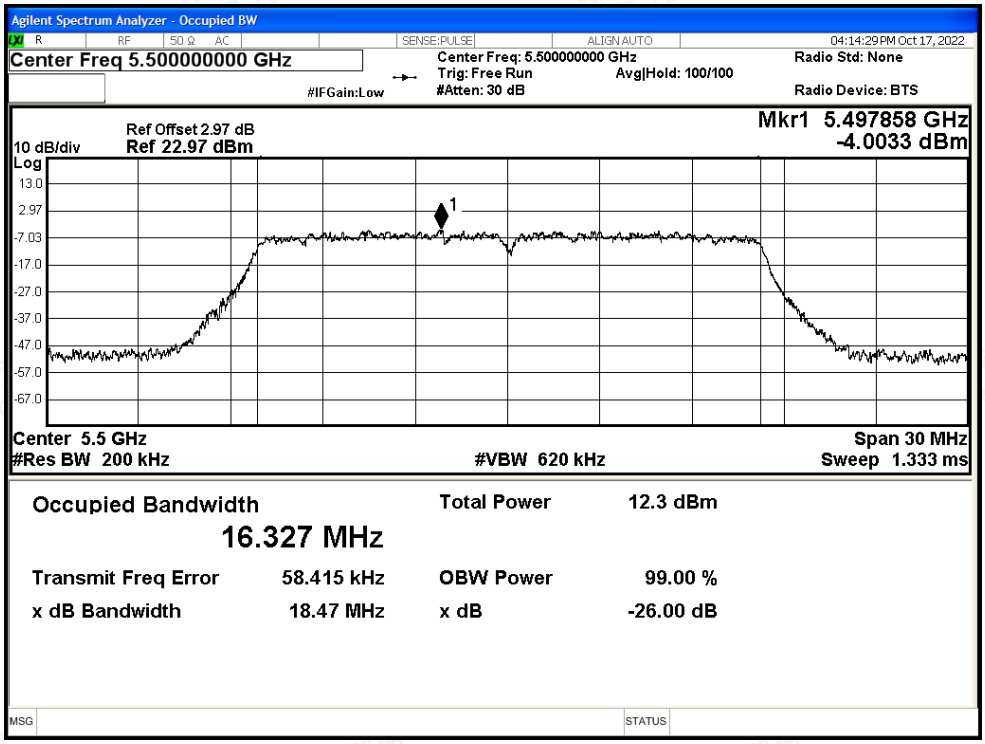
-26dB Bandwidth NVNT ax80 5610MHz Ant0


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.610000000 GHz
Center Freq: 5.610000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold: 100/100
Radio Std: None
Radio Device: BTS
07:33:46 PM Oct 17, 2022
#IFGain:Low
Ref Offset 3.19 dB
10 dB/div
Ref 23.19 dBm
Mkr1 5.579004 GHz
-0.95499 dBm
Center 5.61 GHz
#Res BW 820 kHz
#VBW 2.4 MHz
Span 120 MHz
Sweep 1.333 ms
Occupied Bandwidth
77.275 MHz
Total Power 14.3 dBm
Transmit Freq Error 37.831 kHz
OBW Power 99.00 %
x dB Bandwidth 80.99 MHz
x dB -26.00 dB

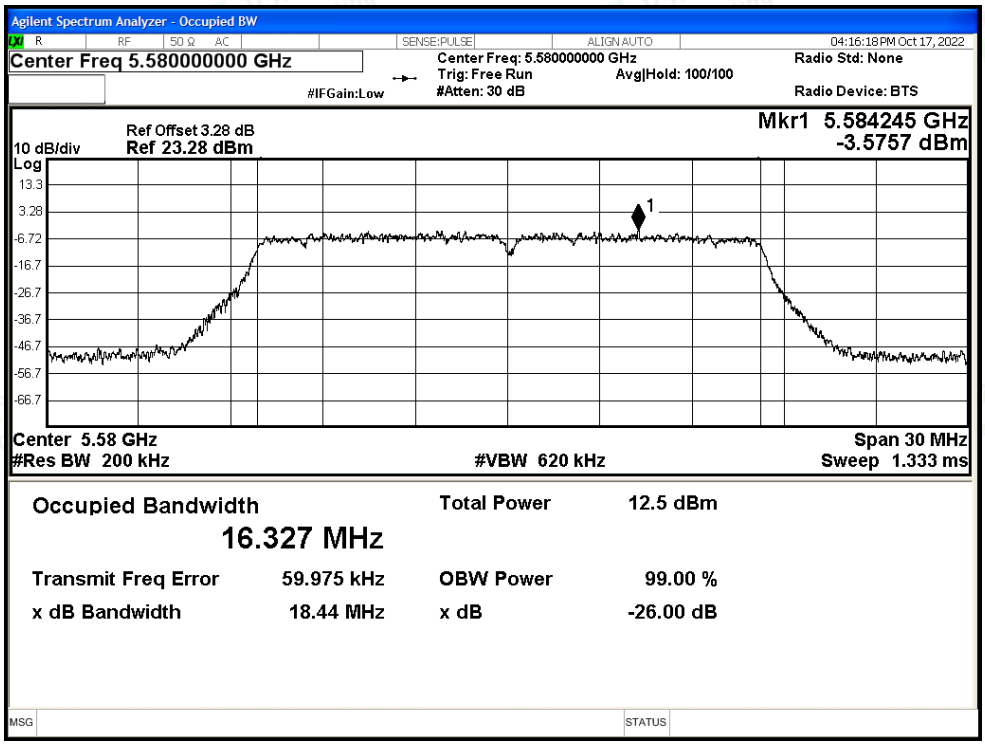
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	a	5500	Ant1	18.47
NVNT	a	5580	Ant1	18.44
NVNT	a	5700	Ant1	18.30
NVNT	n20	5500	Ant1	18.32
NVNT	n20	5580	Ant1	18.21
NVNT	n20	5700	Ant1	18.41
NVNT	n40	5510	Ant1	38.95
NVNT	n40	5550	Ant1	39.02
NVNT	n40	5670	Ant1	38.91
NVNT	ac20	5500	Ant1	18.23
NVNT	ac20	5580	Ant1	18.31
NVNT	ac20	5700	Ant1	18.25
NVNT	ac40	5510	Ant1	38.94
NVNT	ac40	5550	Ant1	38.73
NVNT	ac40	5670	Ant1	38.78
NVNT	ac80	5530	Ant1	87.10
NVNT	ac80	5610	Ant1	87.14
NVNT	ax20	5500	Ant1	20.30
NVNT	ax20	5580	Ant1	20.54
NVNT	ax20	5700	Ant1	20.39
NVNT	ax40	5510	Ant1	39.64
NVNT	ax40	5550	Ant1	39.56
NVNT	ax40	5670	Ant1	39.82
NVNT	ax80	5530	Ant1	80.79
NVNT	ax80	5610	Ant1	80.74

Test Graphs

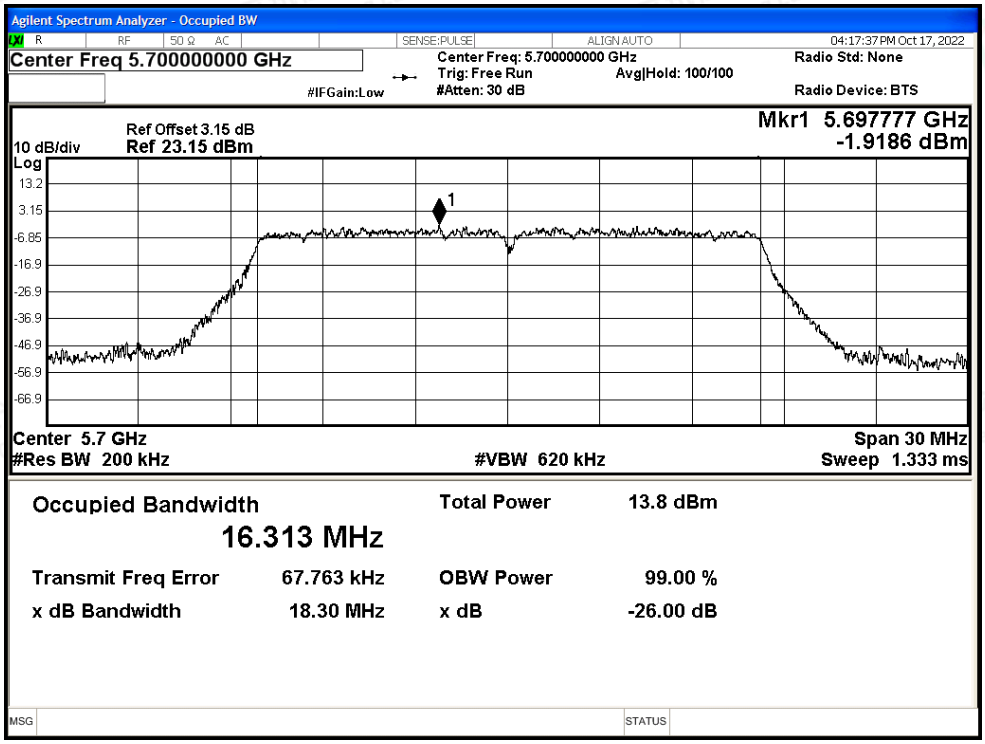
-26dB Bandwidth NVNT a 5500MHz Ant1



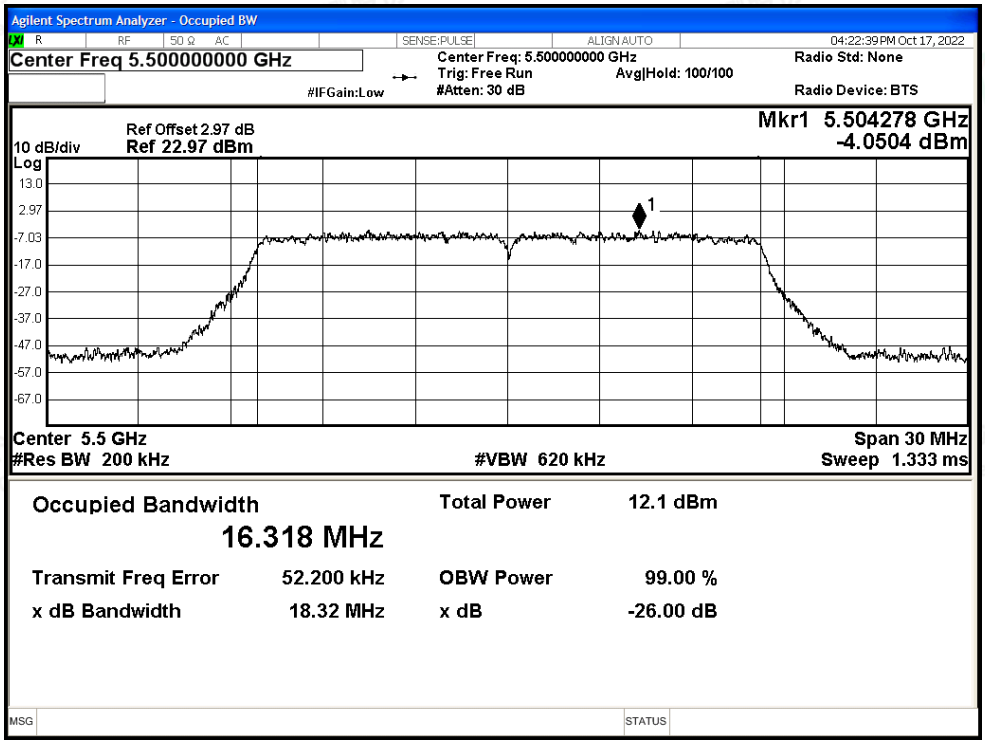
-26dB Bandwidth NVNT a 5580MHz Ant1



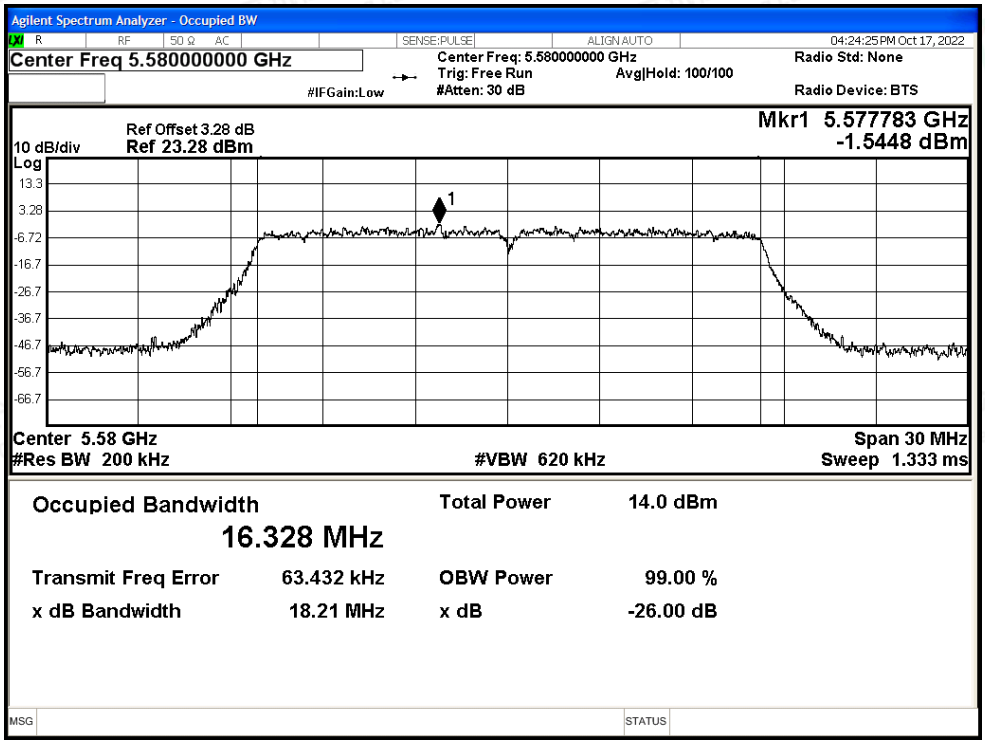
-26dB Bandwidth NVNT a 5700MHz Ant1



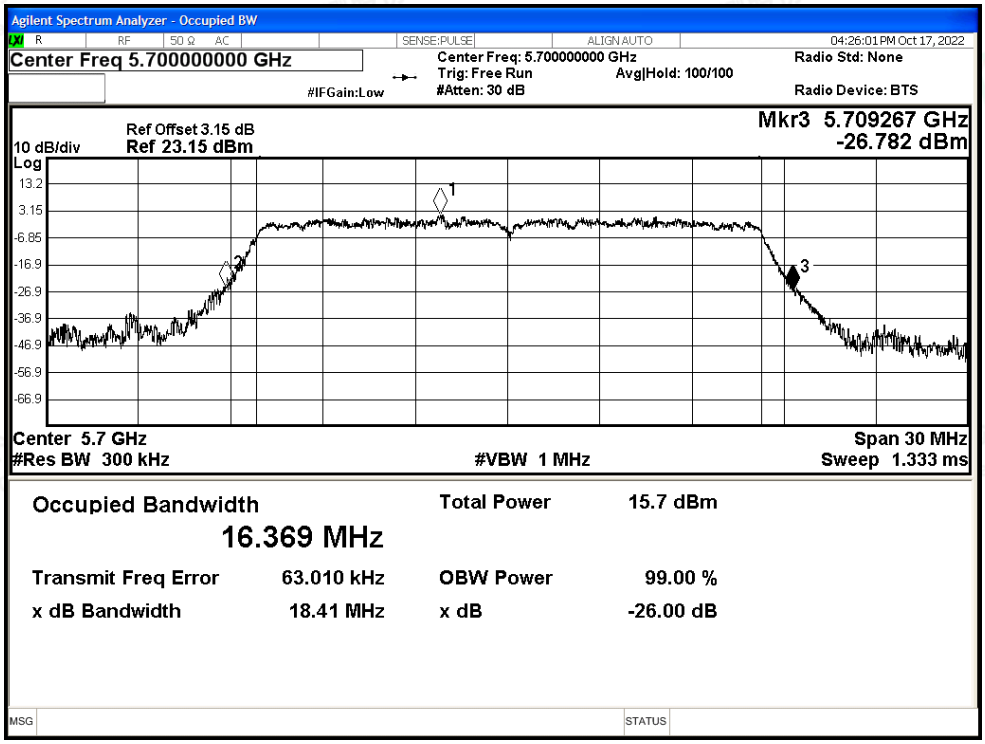
-26dB Bandwidth NVNT n20 5500MHz Ant1



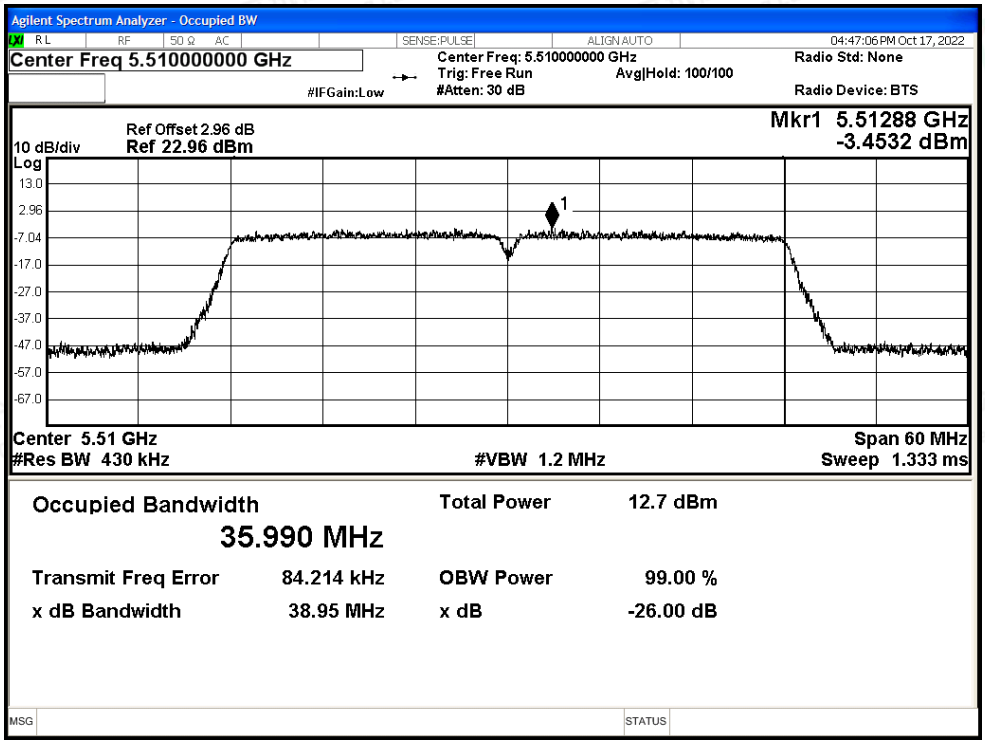
-26dB Bandwidth NVNT n20 5580MHz Ant1



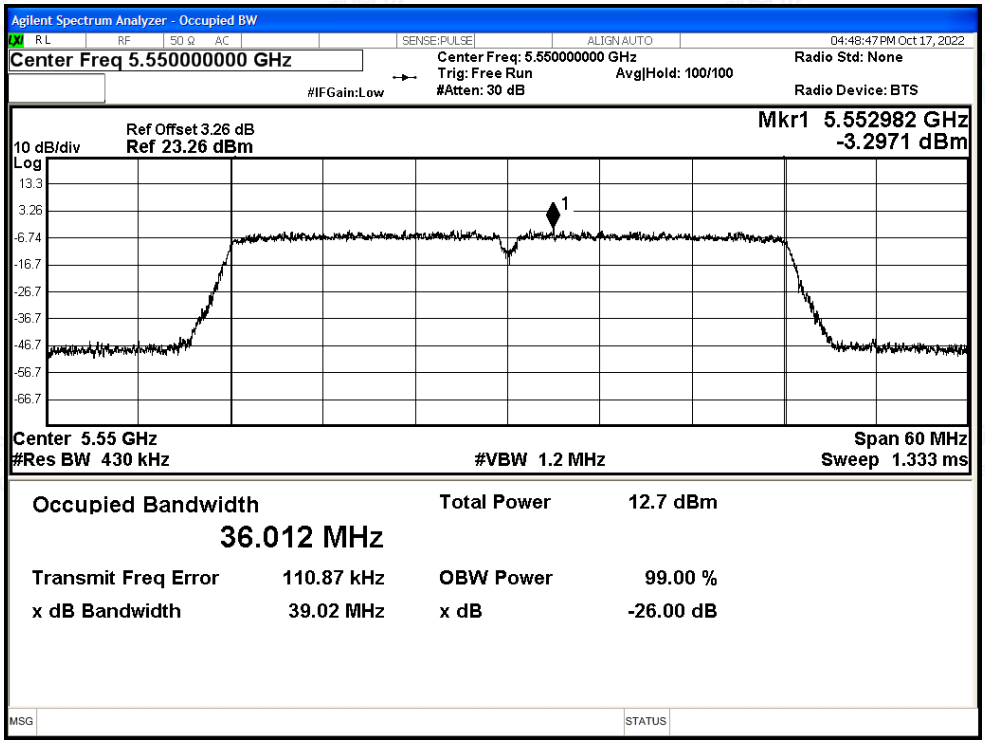
-26dB Bandwidth NVNT n20 5700MHz Ant1



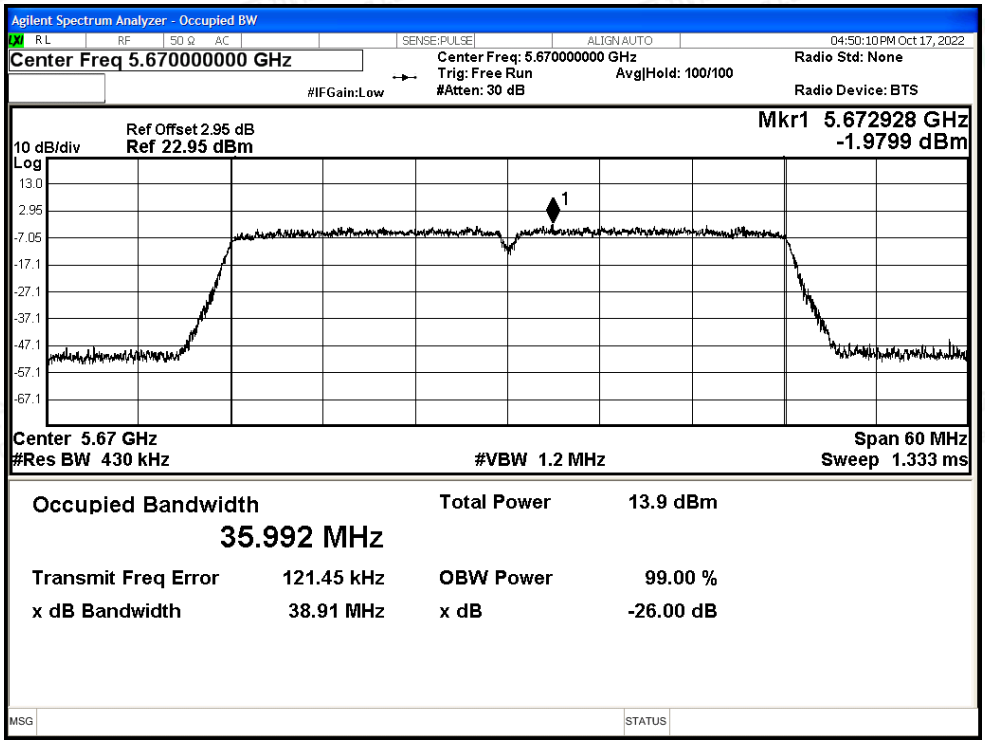
-26dB Bandwidth NVNT n40 5510MHz Ant1



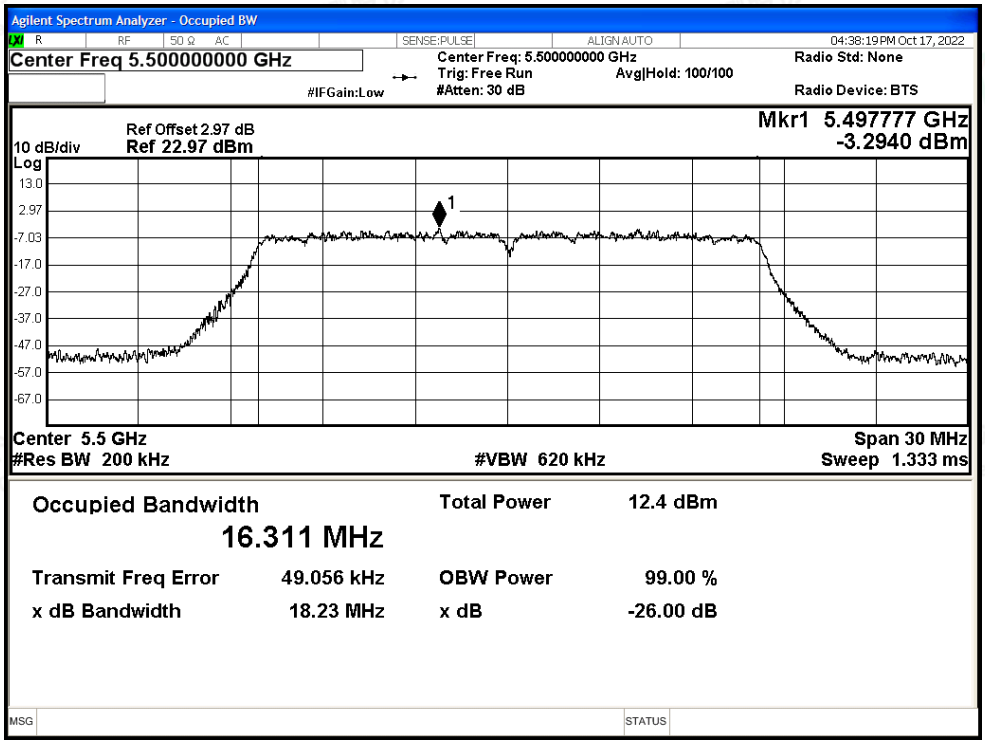
-26dB Bandwidth NVNT n40 5550MHz Ant1



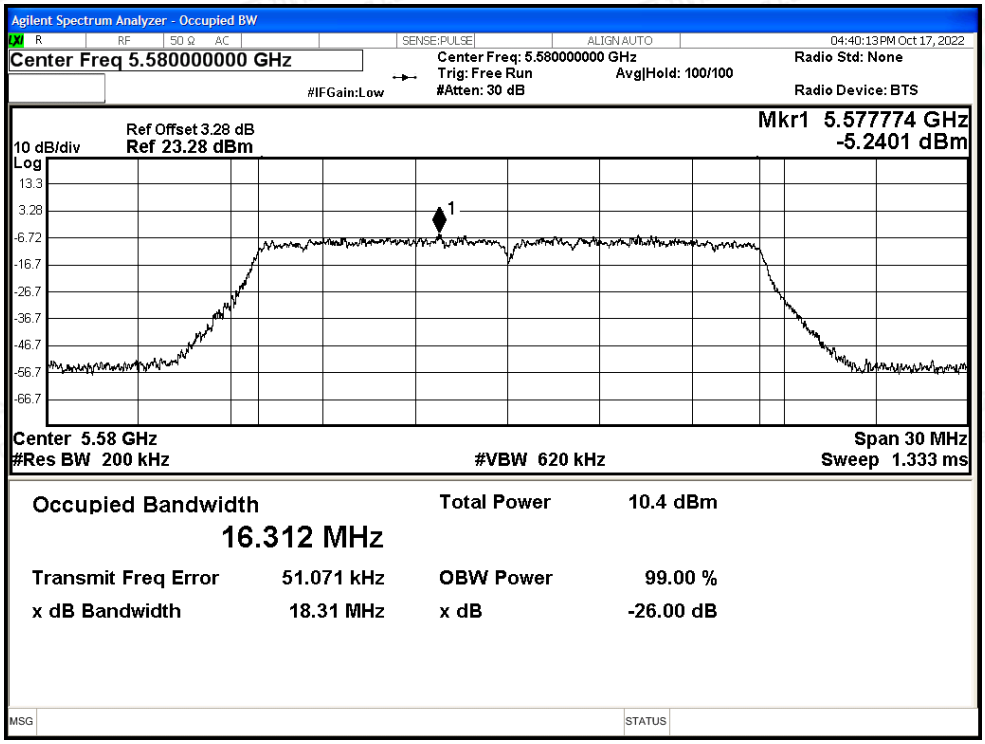
-26dB Bandwidth NVNT n40 5670MHz Ant1



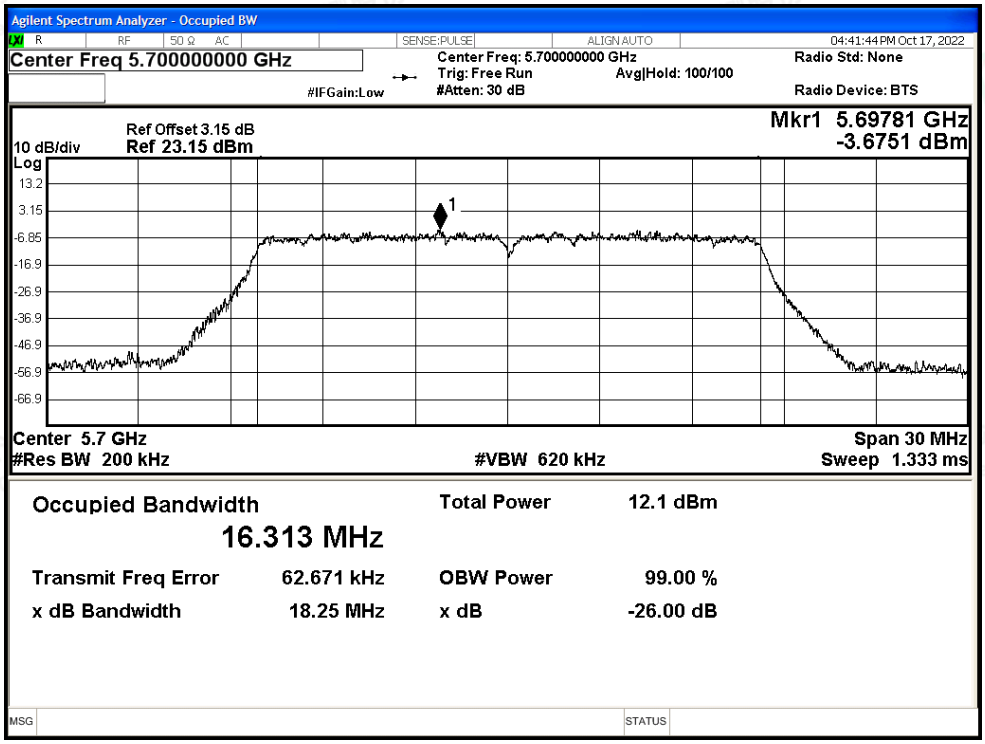
-26dB Bandwidth NVNT ac20 5500MHz Ant1



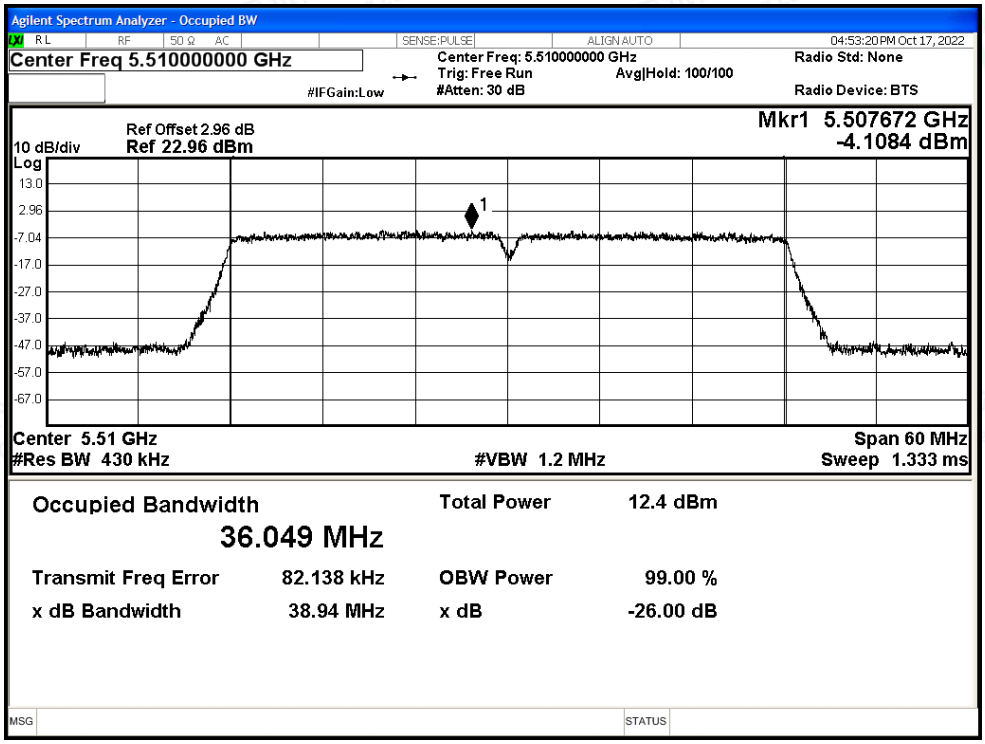
-26dB Bandwidth NVNT ac20 5580MHz Ant1



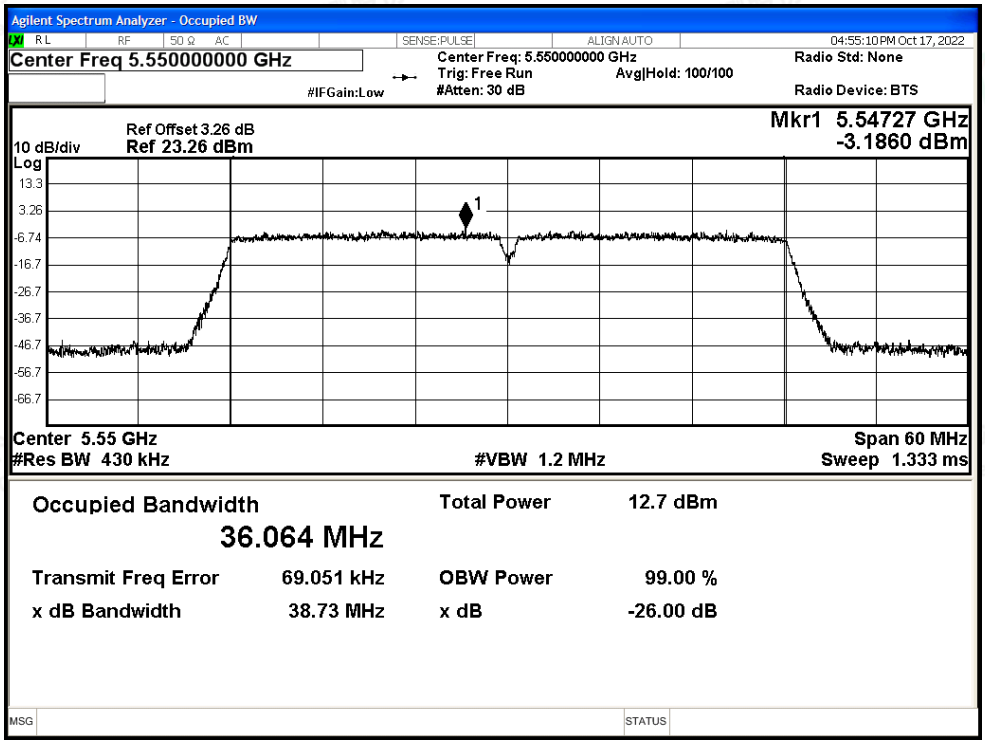
-26dB Bandwidth NVNT ac20 5700MHz Ant1



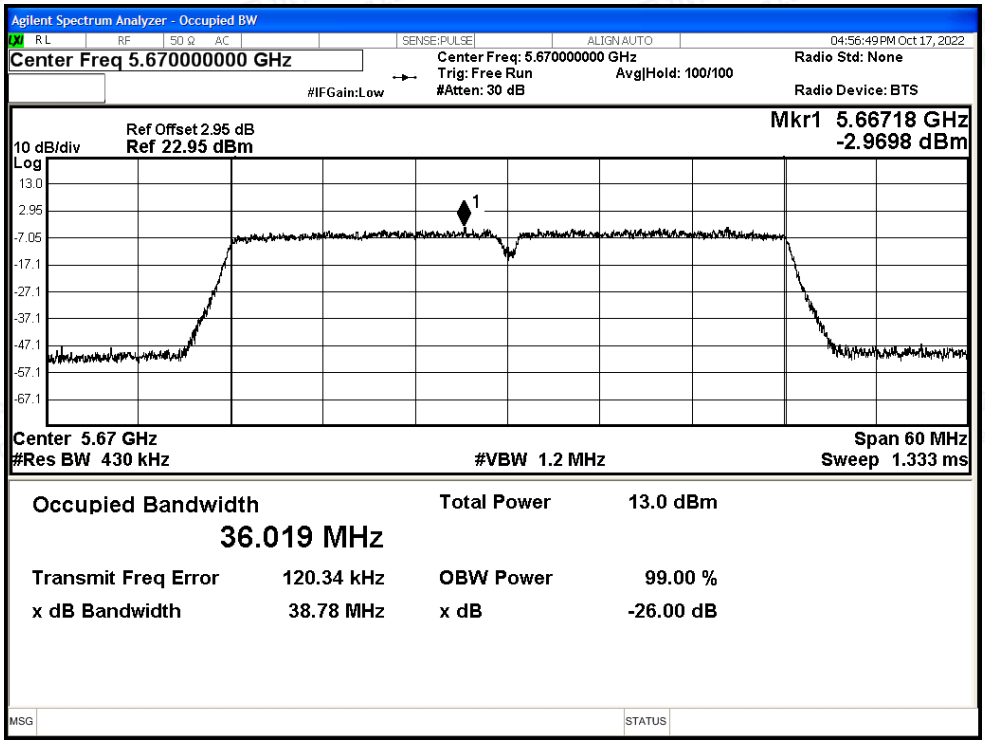
-26dB Bandwidth NVNT ac40 5510MHz Ant1



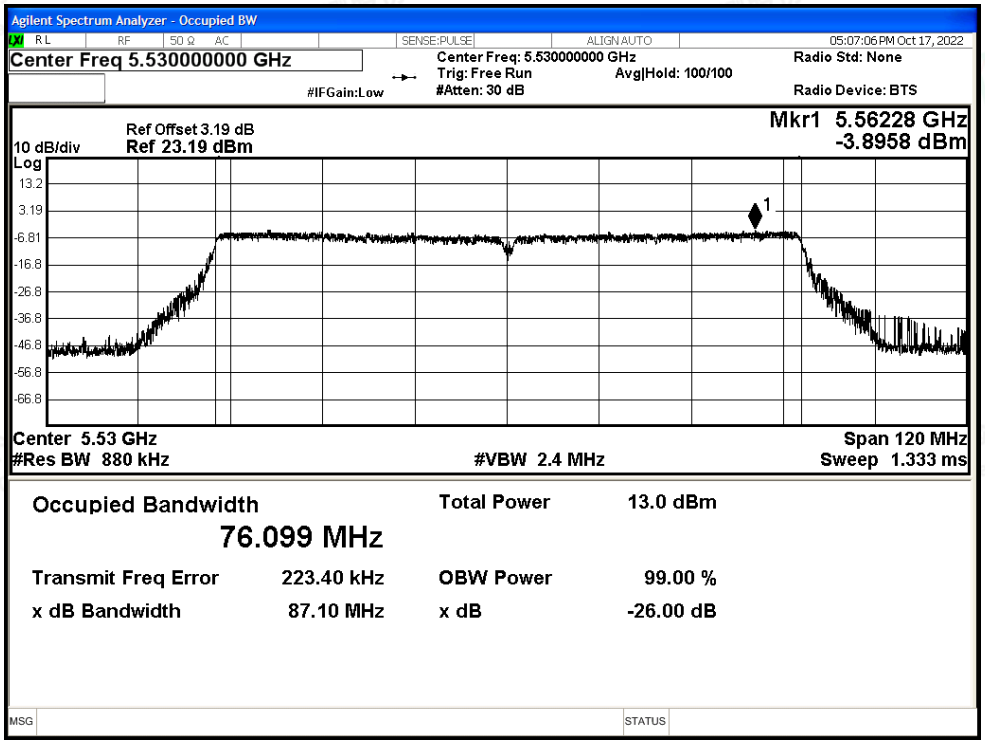
-26dB Bandwidth NVNT ac40 5550MHz Ant1



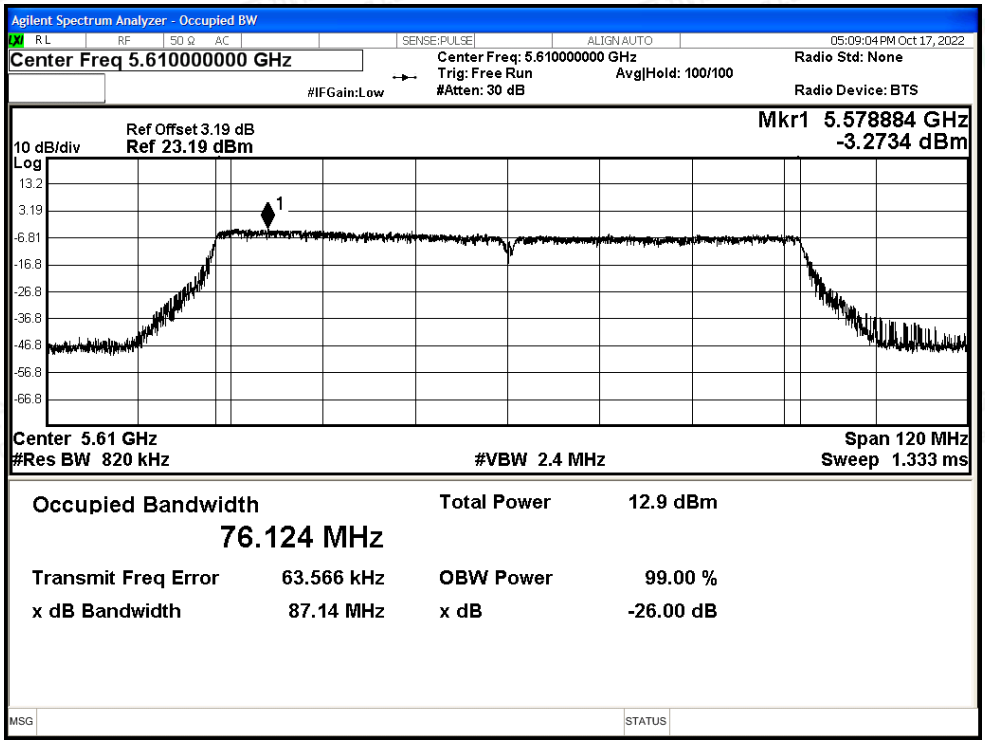
-26dB Bandwidth NVNT ac40 5670MHz Ant1



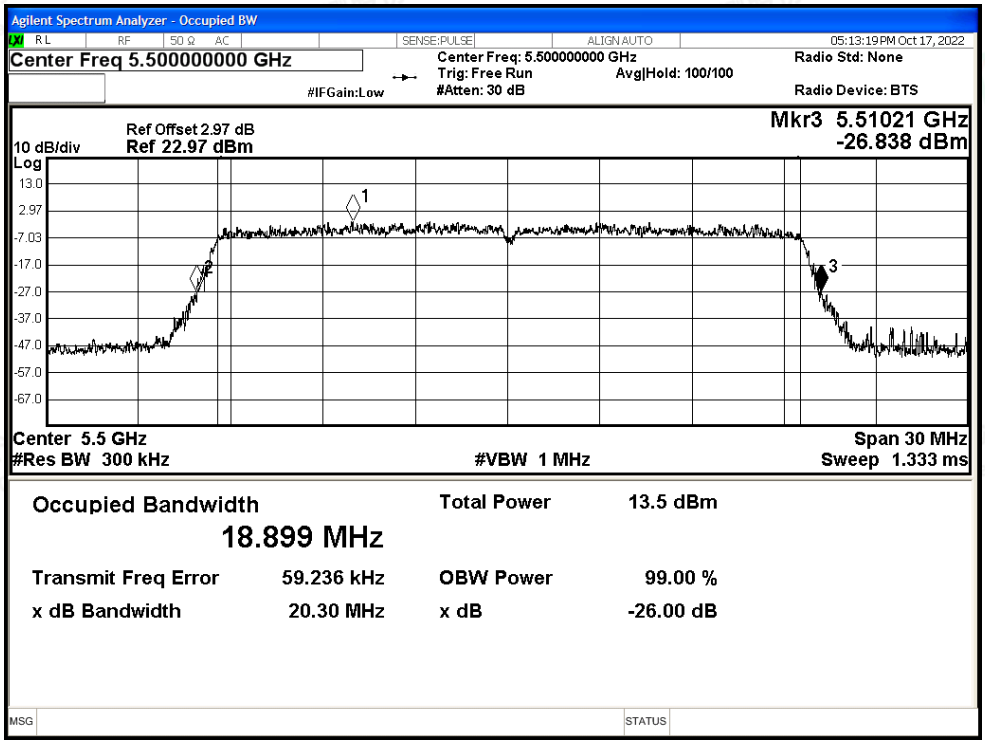
-26dB Bandwidth NVNT ac80 5530MHz Ant1



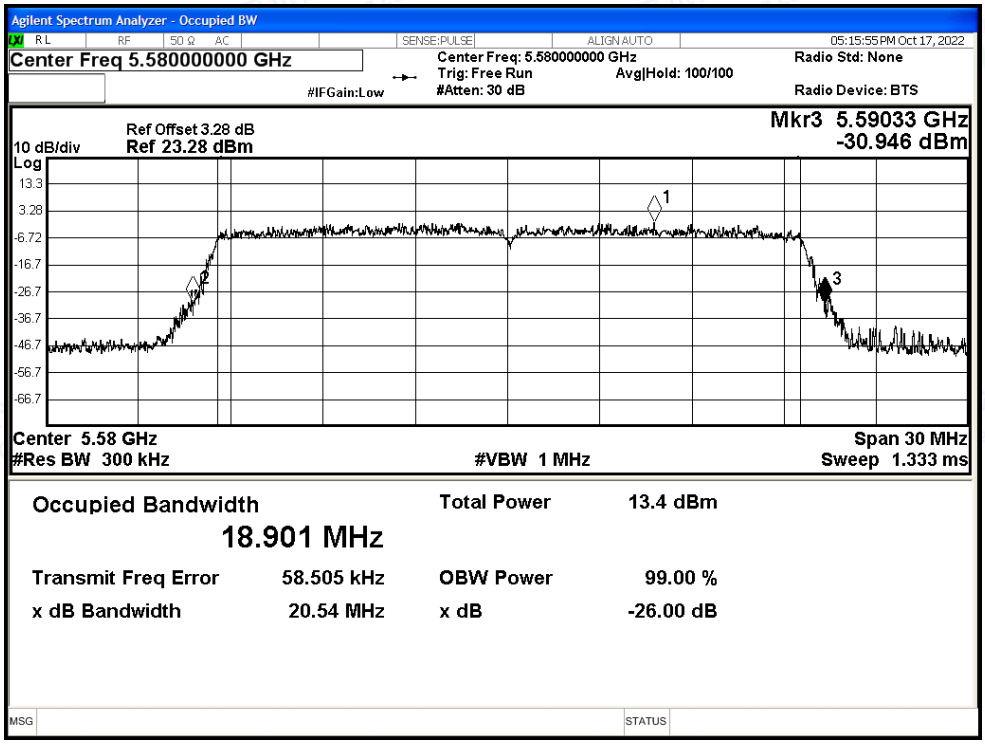
-26dB Bandwidth NVNT ac80 5610MHz Ant1



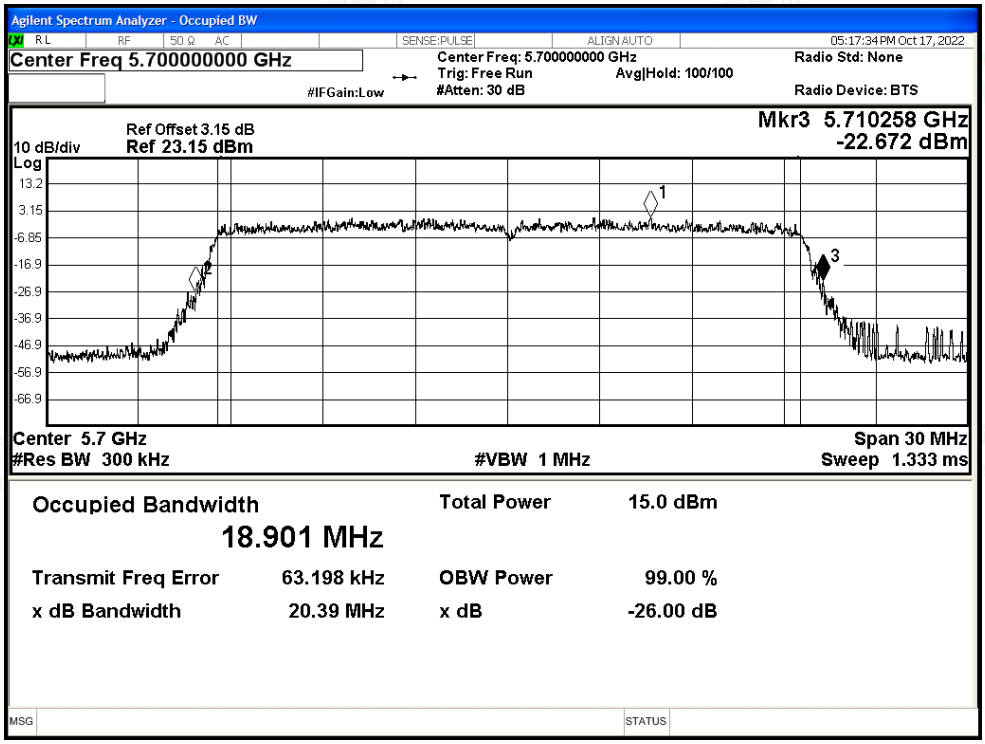
-26dB Bandwidth NVNT ax20 5500MHz Ant1



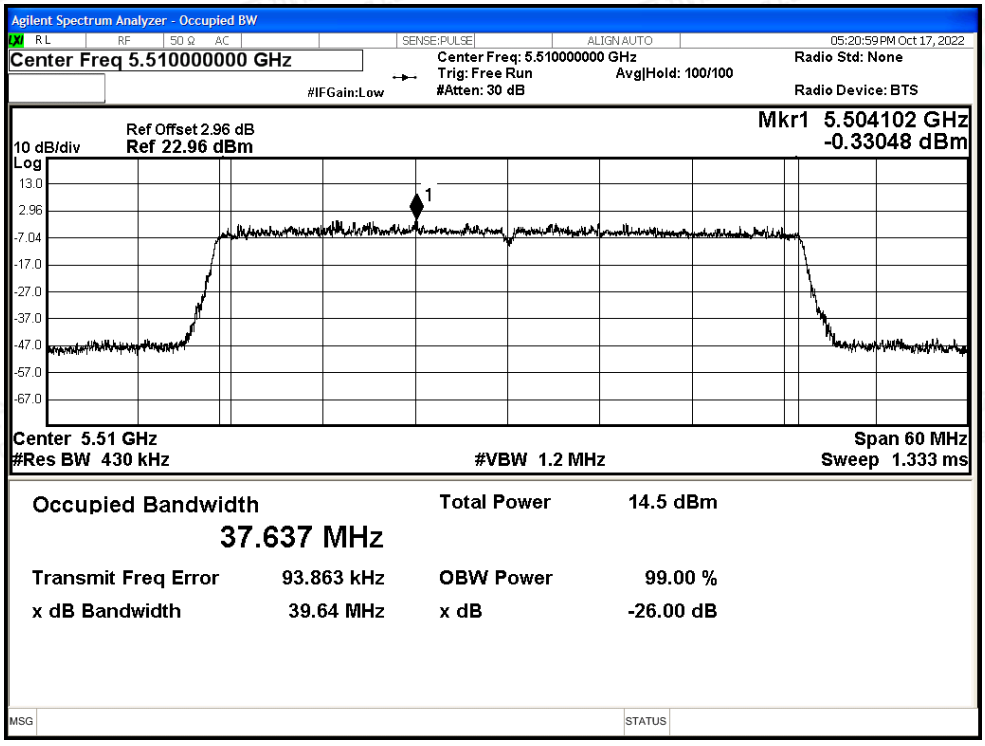
-26dB Bandwidth NVNT ax20 5580MHz Ant1



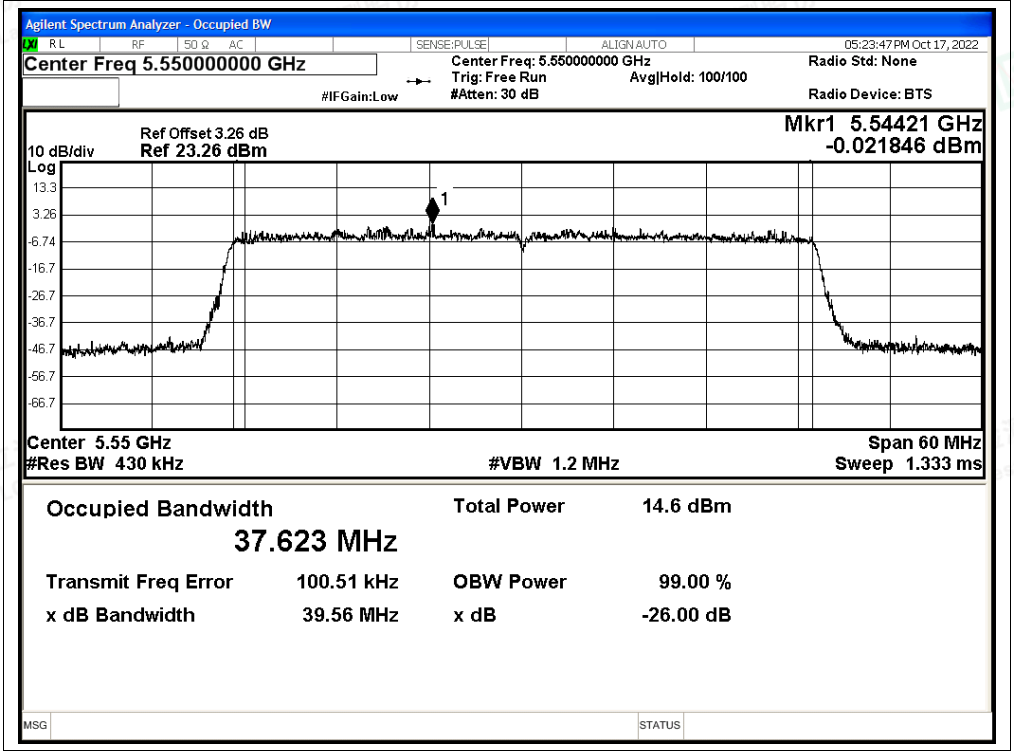
-26dB Bandwidth NVNT ax20 5700MHz Ant1



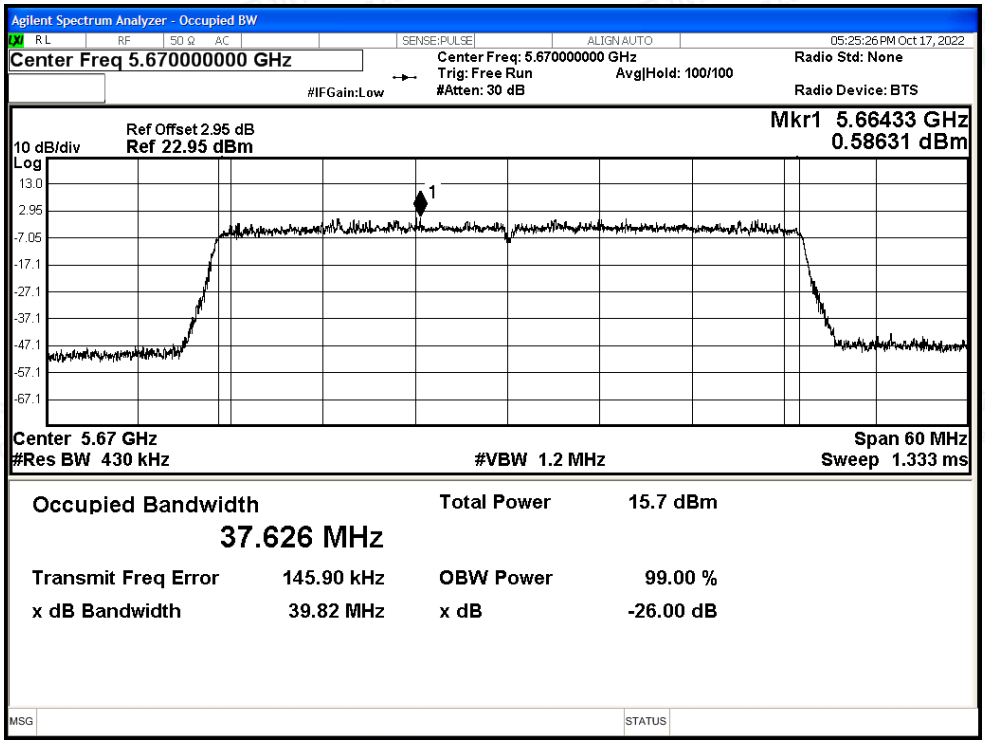
-26dB Bandwidth NVNT ax40 5510MHz Ant1



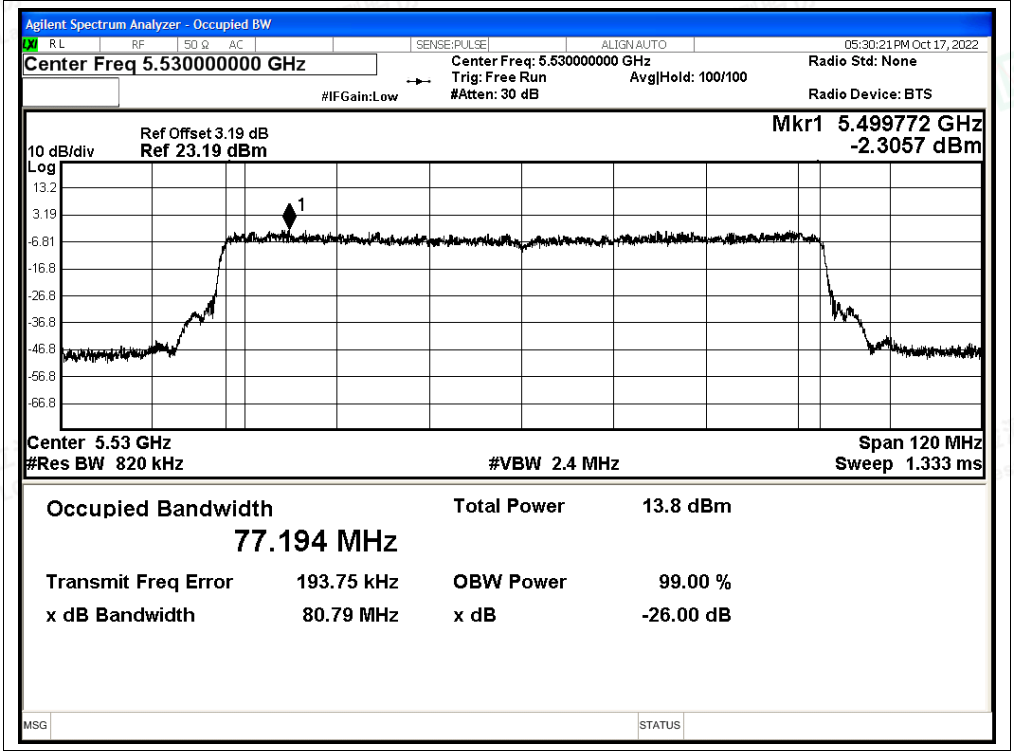
-26dB Bandwidth NVNT ax40 5550MHz Ant1



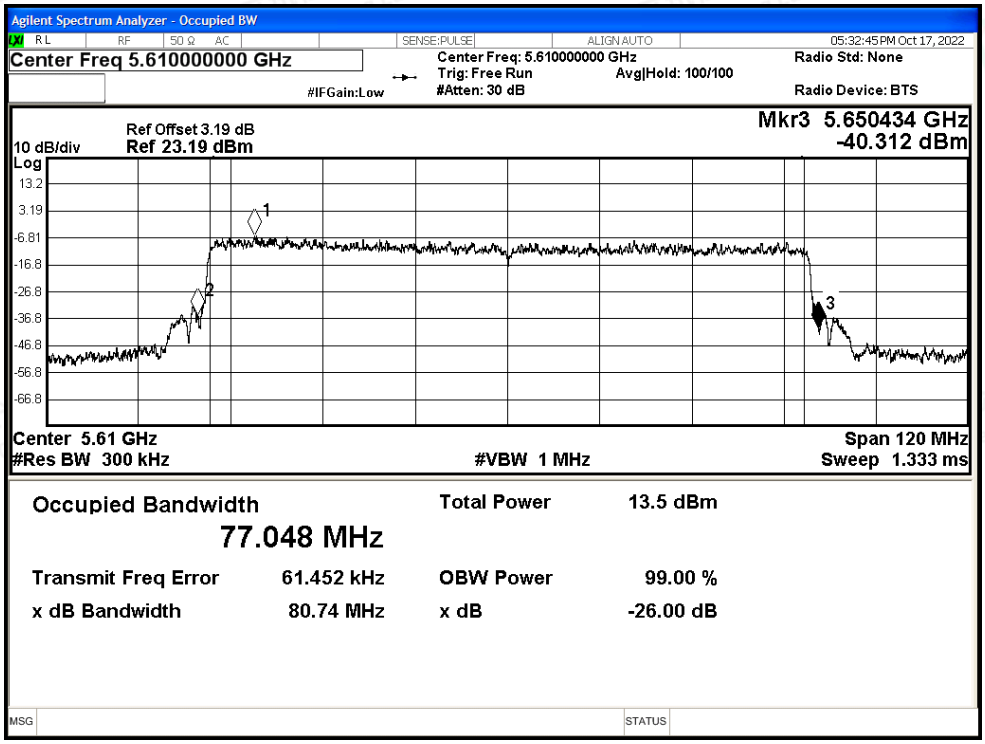
-26dB Bandwidth NVNT ax40 5670MHz Ant1



-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

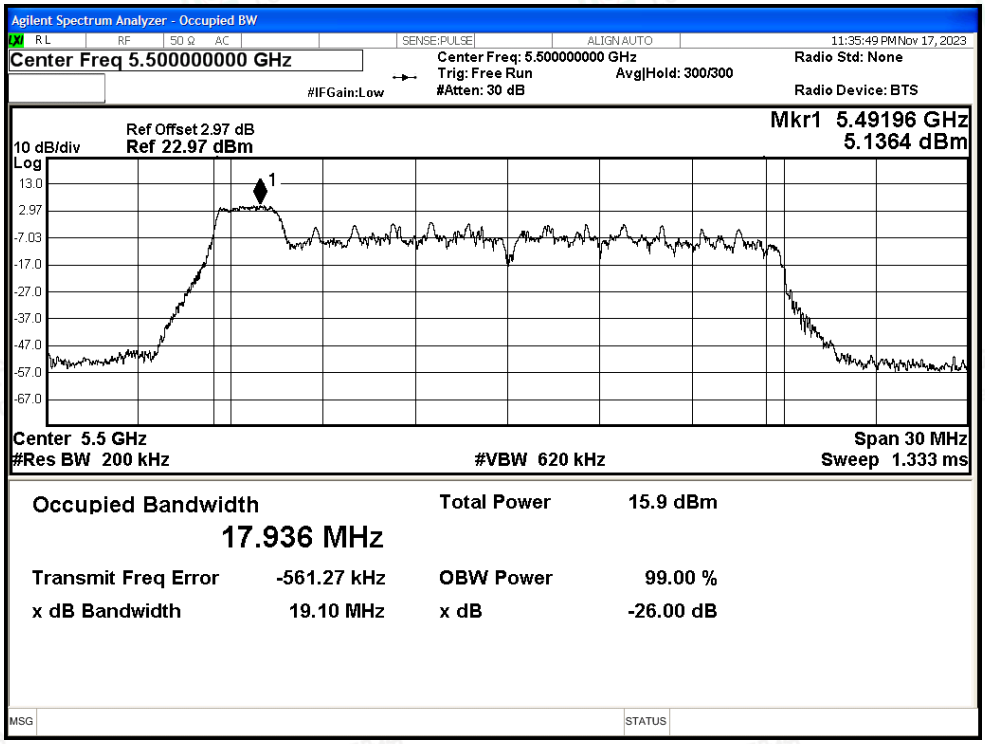


802.11ax OFDMA-(26 Tone)

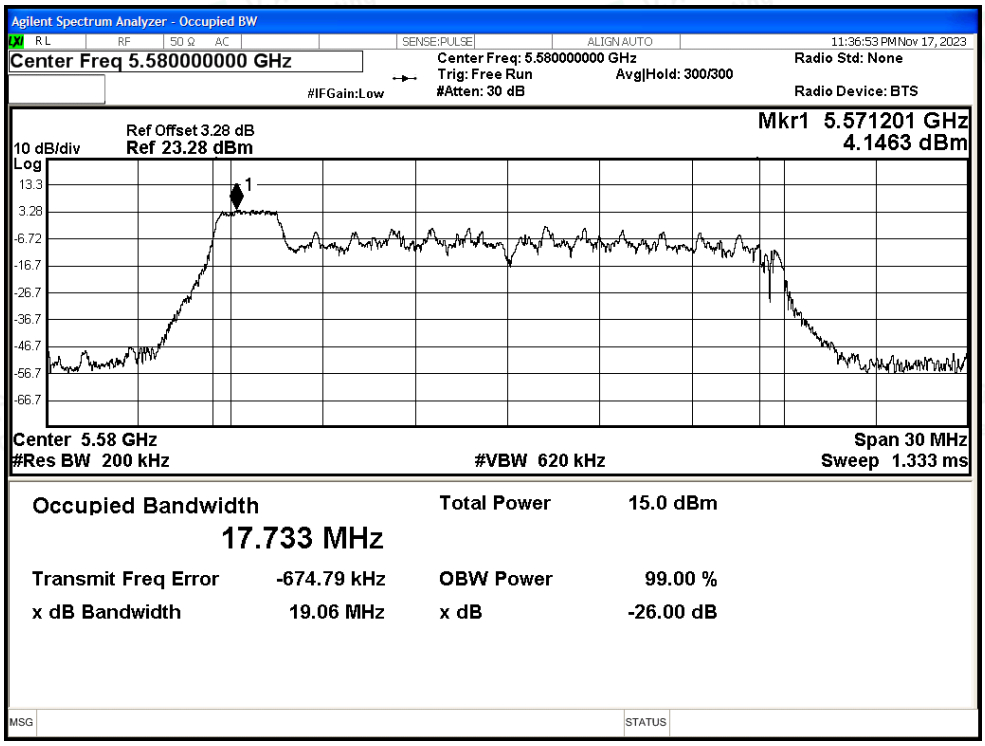
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant0	19.10
NVNT	ax20	5580	Ant0	19.06
NVNT	ax20	5700	Ant0	19.12
NVNT	ax40	5510	Ant0	19.15
NVNT	ax40	5550	Ant0	19.19
NVNT	ax40	5670	Ant0	19.14
NVNT	ax80	5530	Ant0	19.24
NVNT	ax80	5610	Ant0	18.97

Test Graphs

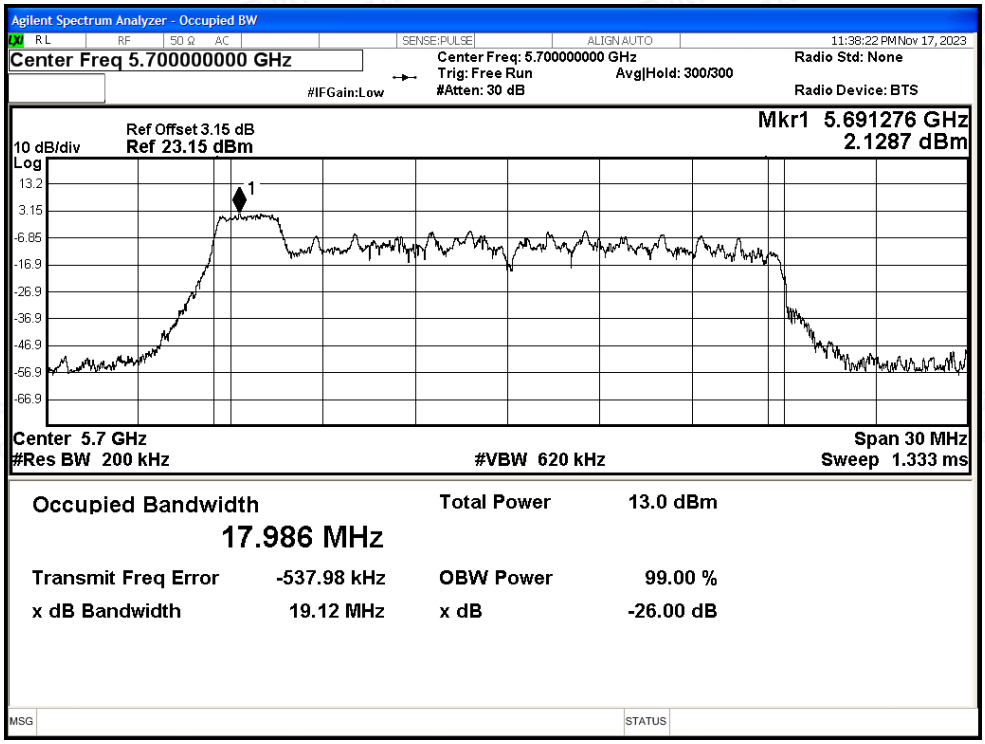
-26dB Bandwidth NVNT ax20 5500MHz Ant0



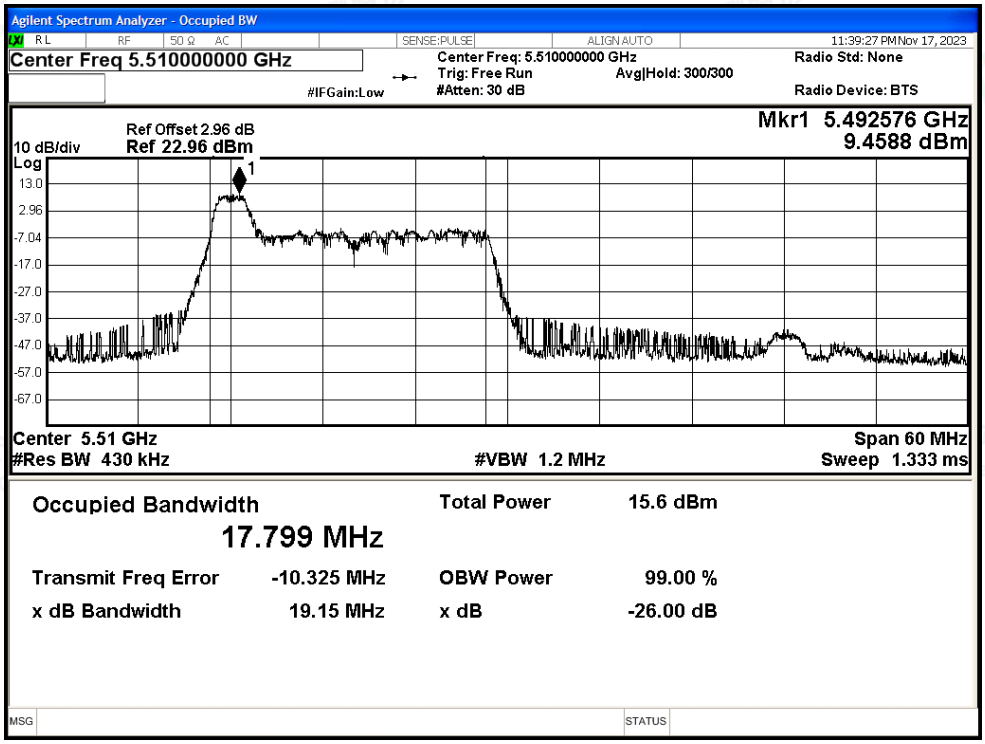
-26dB Bandwidth NVNT ax20 5580MHz Ant0



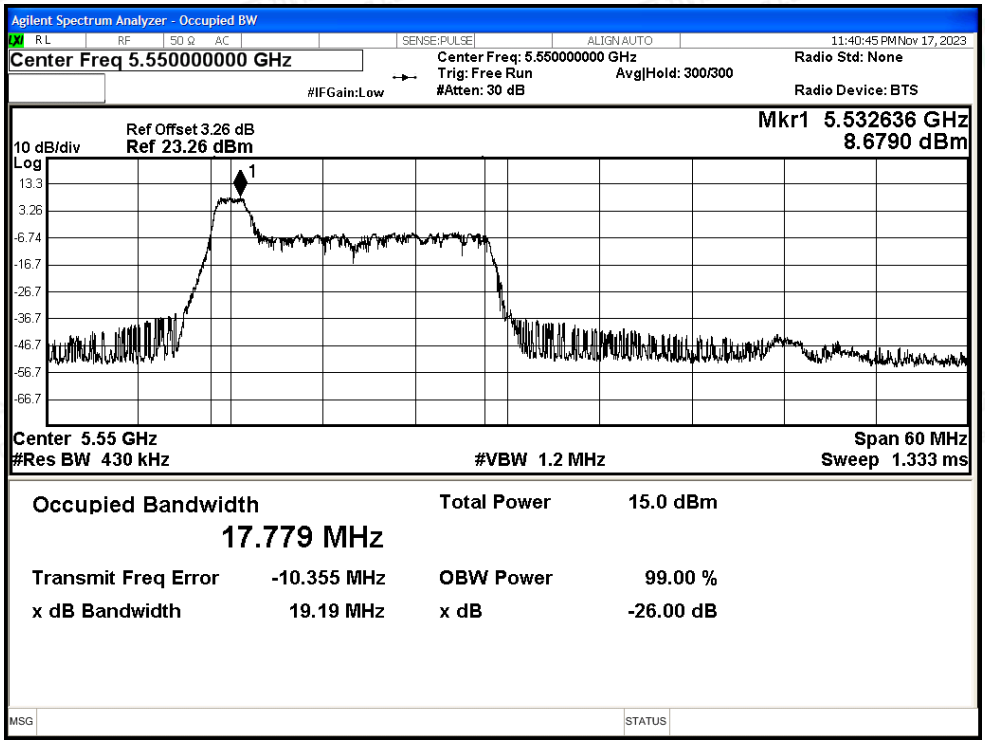
-26dB Bandwidth NVNT ax20 5700MHz Ant0



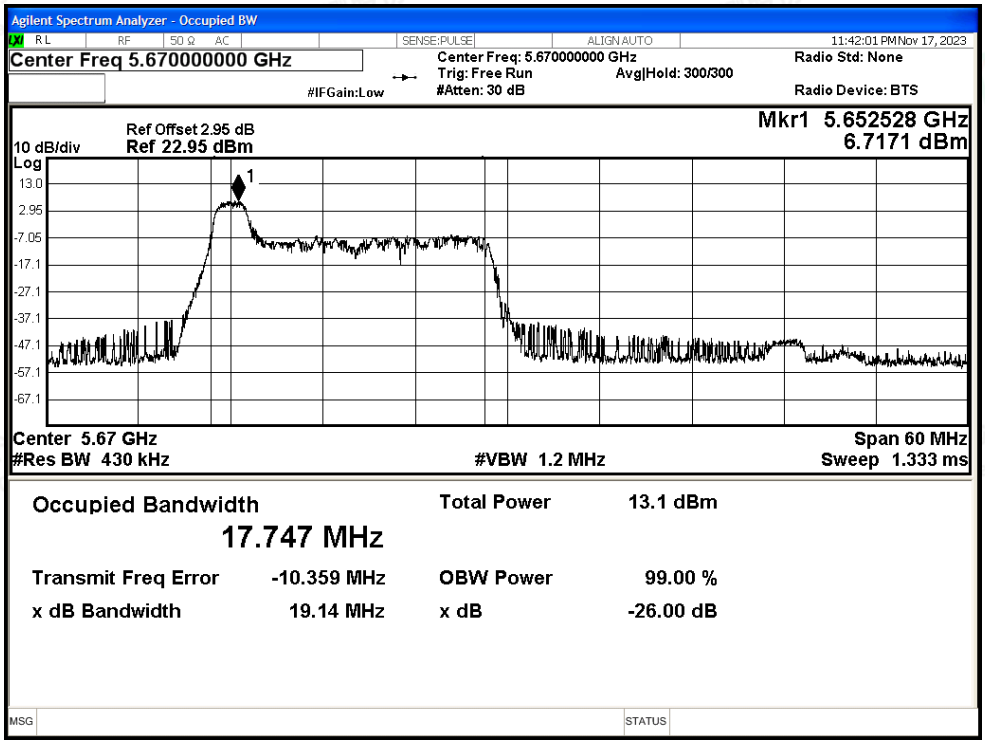
-26dB Bandwidth NVNT ax40 5510MHz Ant0



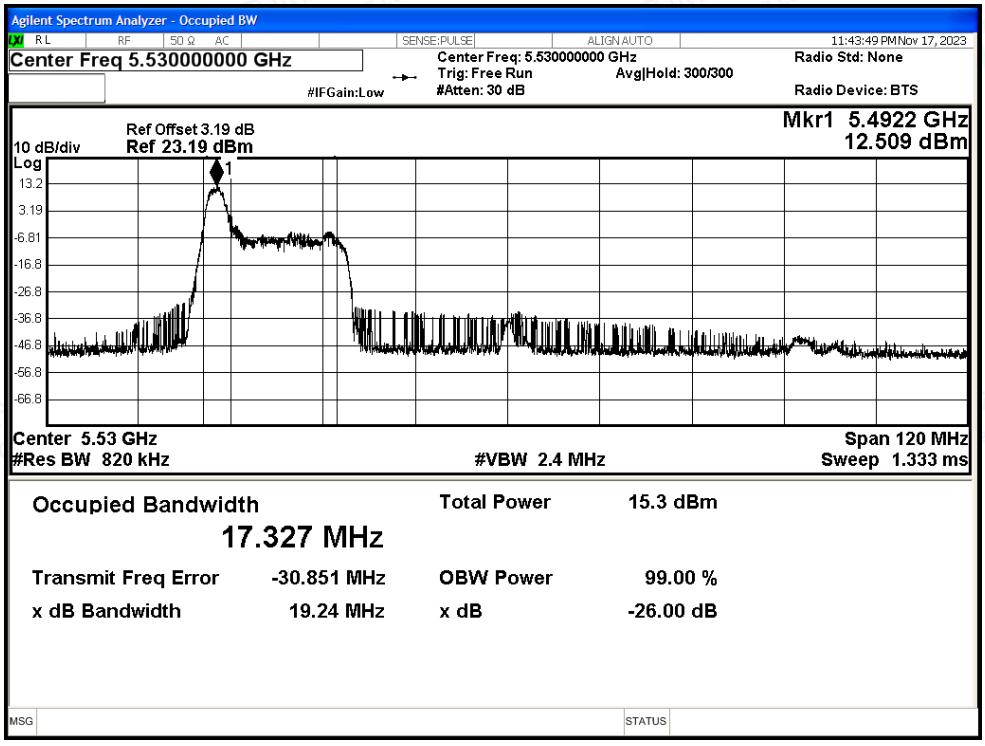
-26dB Bandwidth NVNT ax40 5550MHz Ant0



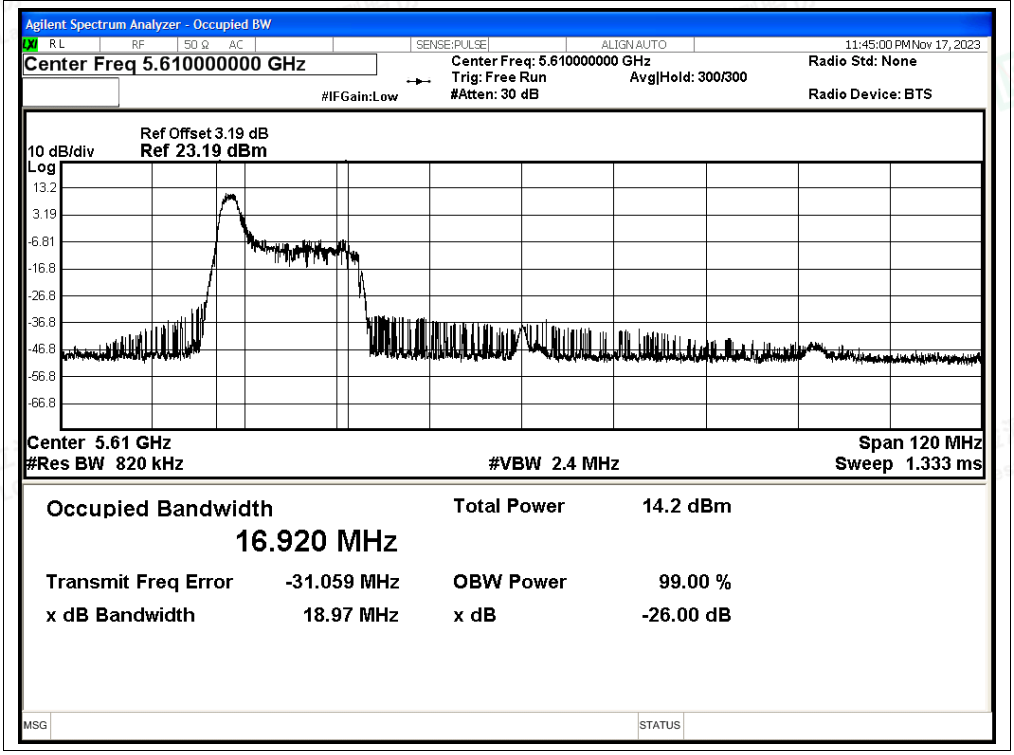
-26dB Bandwidth NVNT ax40 5670MHz Ant0



-26dB Bandwidth NVNT ax80 5530MHz Ant0



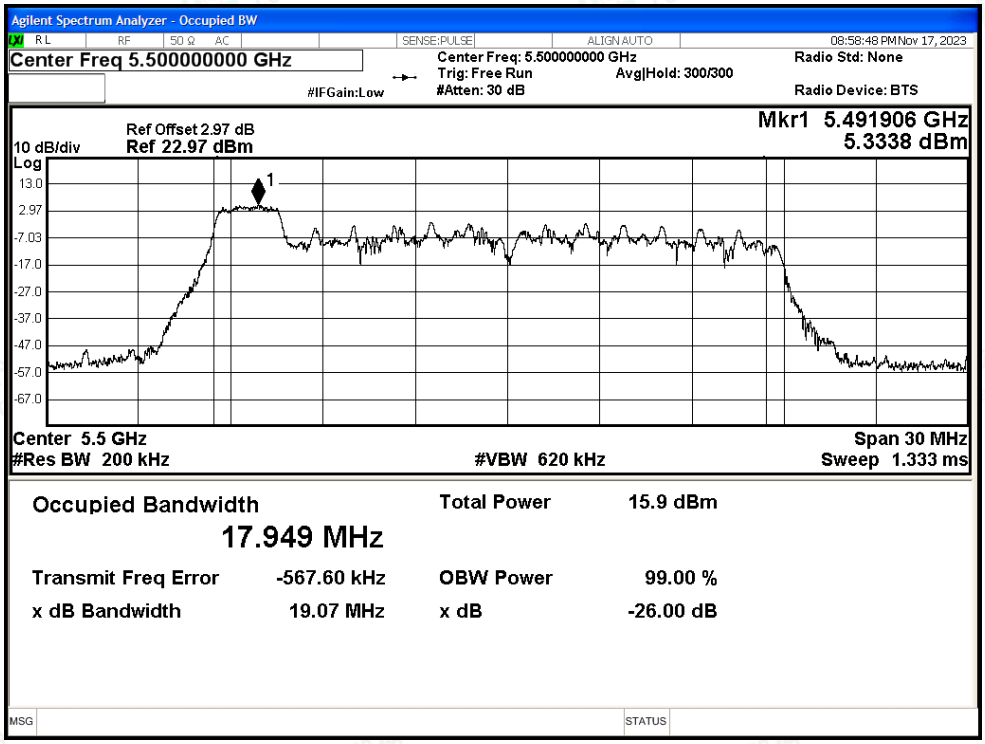
OBW NVNT ax80 5610MHz Ant0



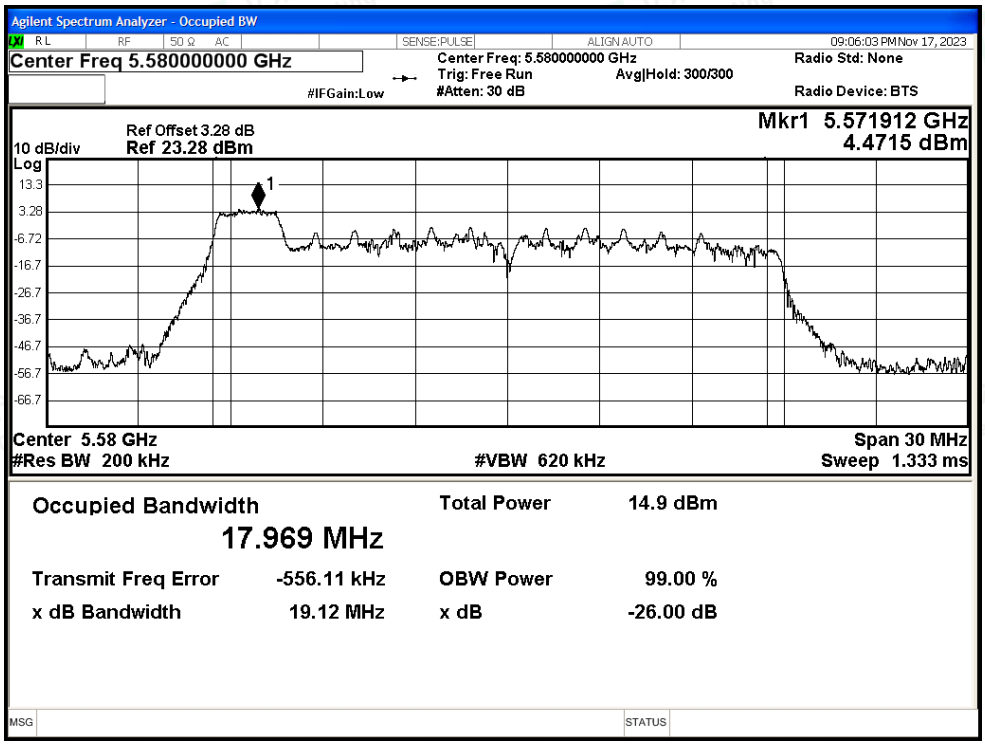
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant1	19.07
NVNT	ax20	5580	Ant1	19.12
NVNT	ax20	5700	Ant1	19.08
NVNT	ax40	5510	Ant1	19.00
NVNT	ax40	5550	Ant1	19.15
NVNT	ax40	5670	Ant1	19.16
NVNT	ax80	5530	Ant1	19.21
NVNT	ax80	5610	Ant1	19.15

Test Graphs

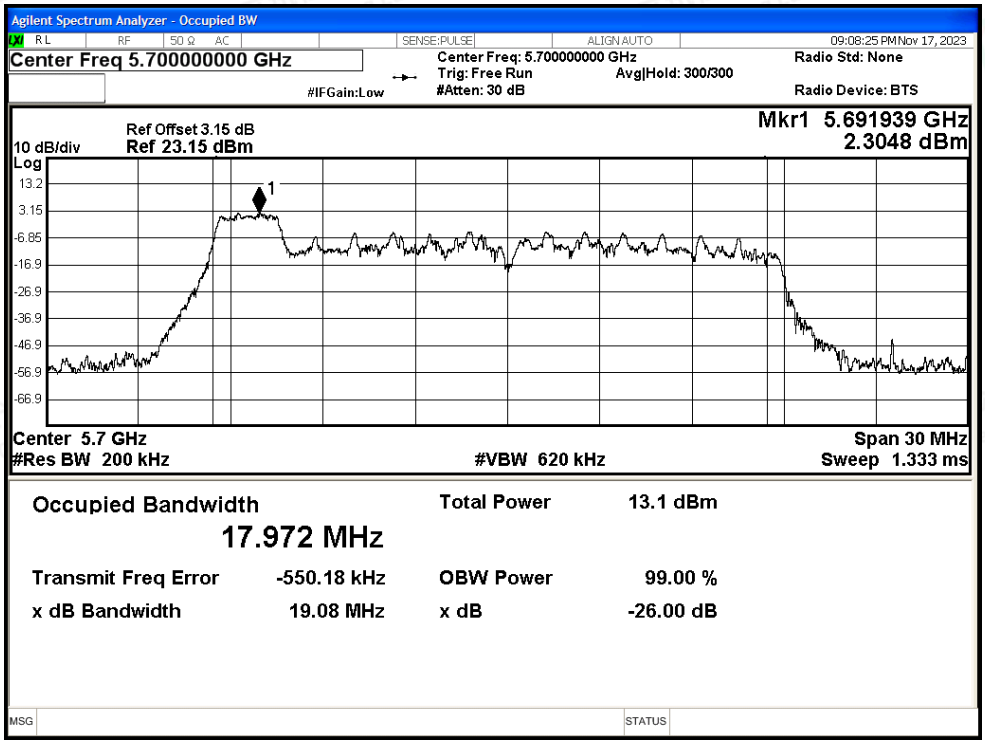
-26dB Bandwidth NVNT ax20 5500MHz Ant1



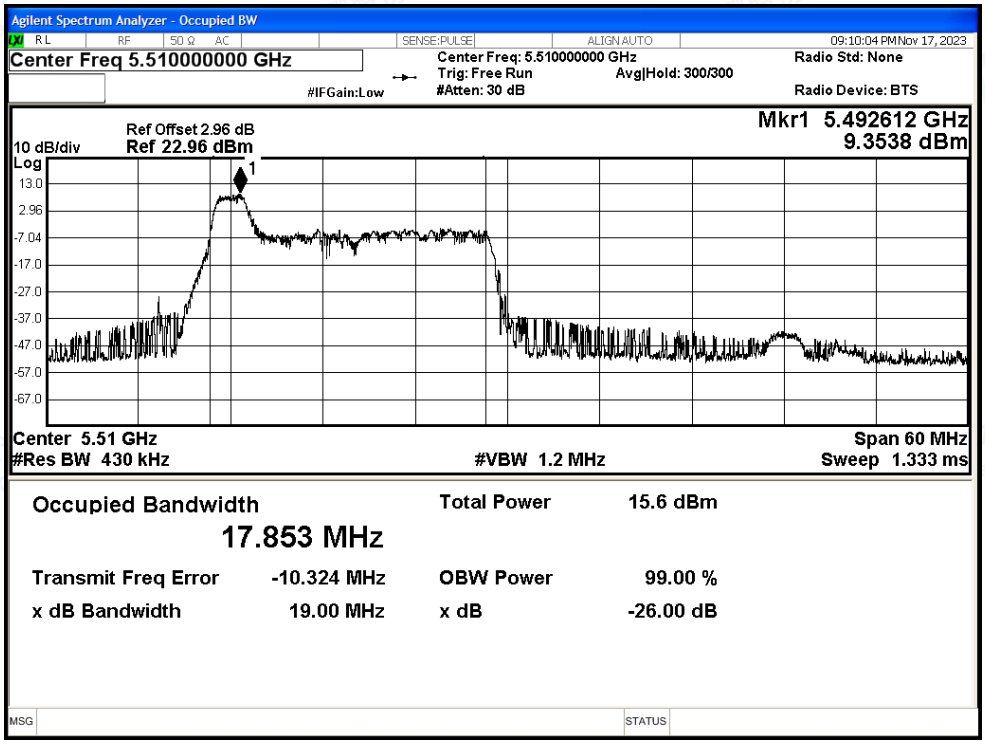
-26dB Bandwidth NVNT ax20 5580MHz Ant1



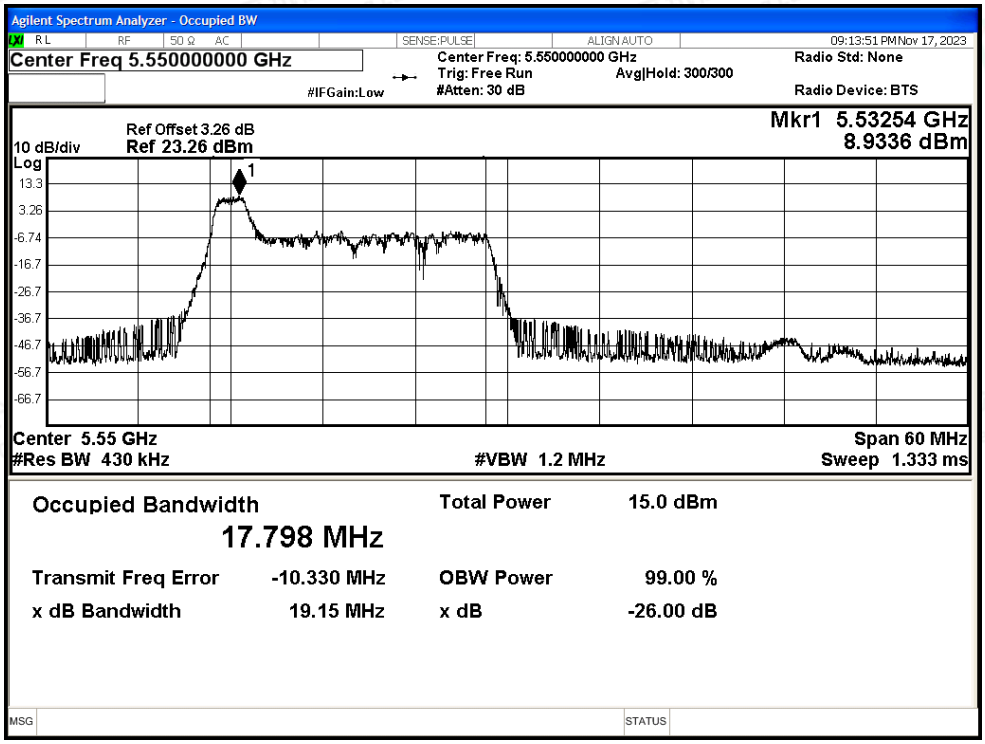
-26dB Bandwidth NVNT ax20 5700MHz Ant1



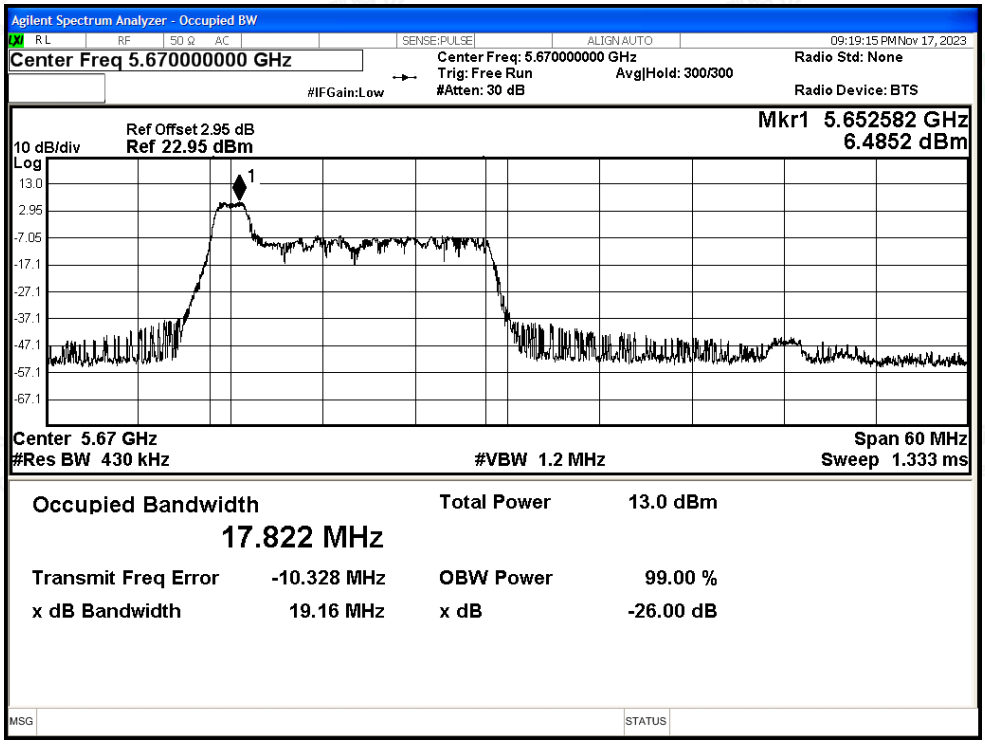
-26dB Bandwidth NVNT ax40 5510MHz Ant1



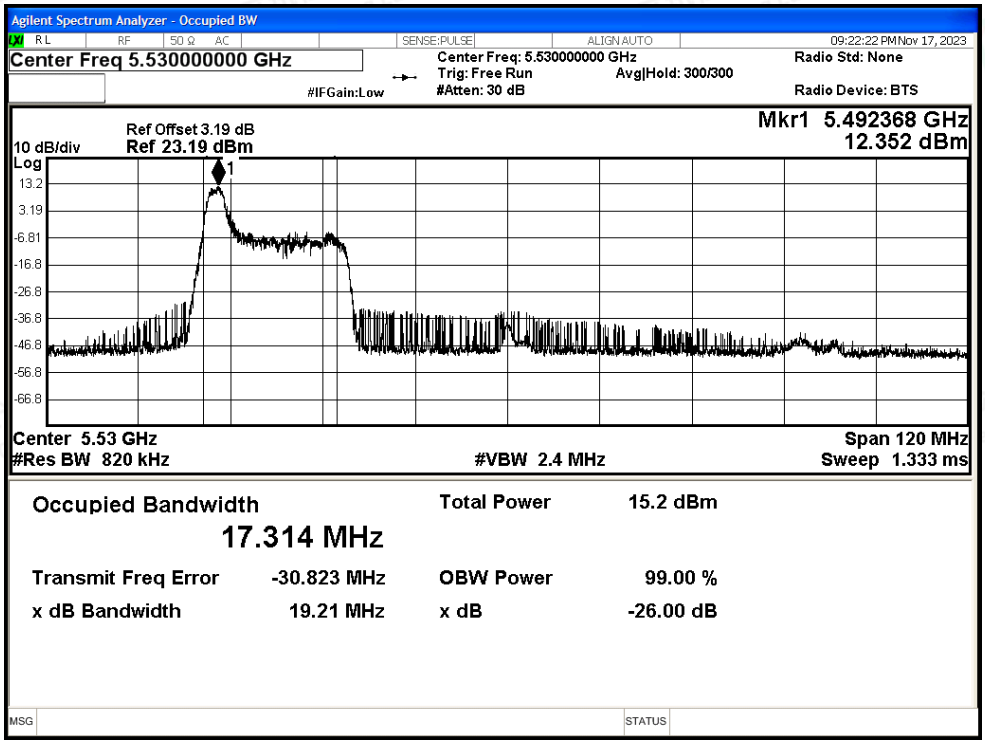
-26dB Bandwidth NVNT ax40 5550MHz Ant1



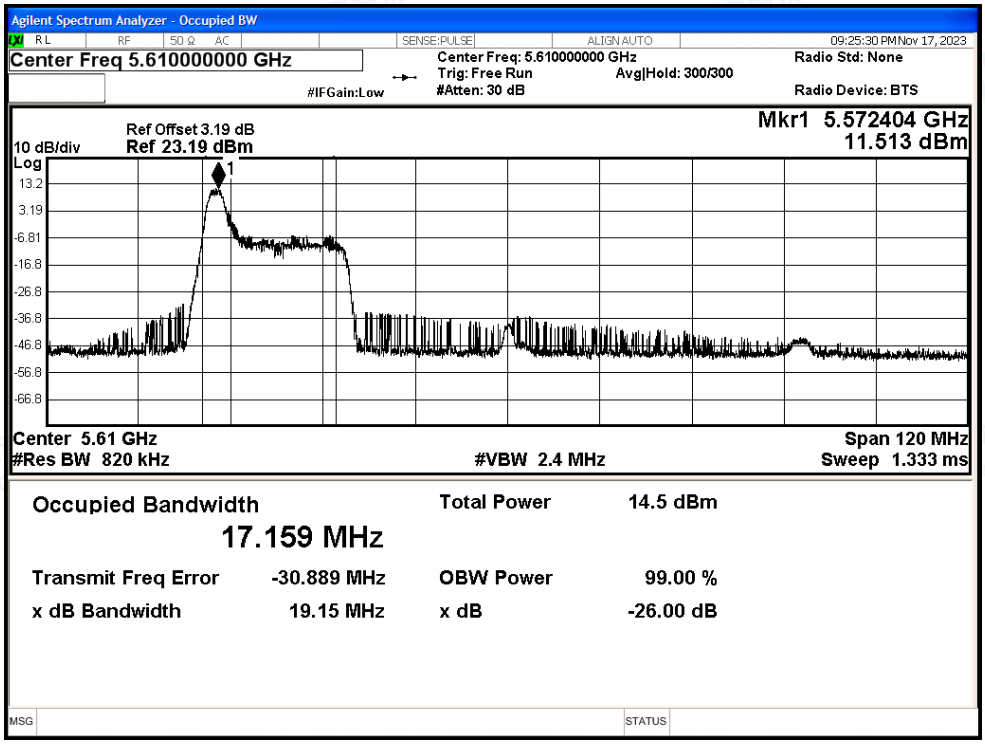
-26dB Bandwidth NVNT ax40 5670MHz Ant1



-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

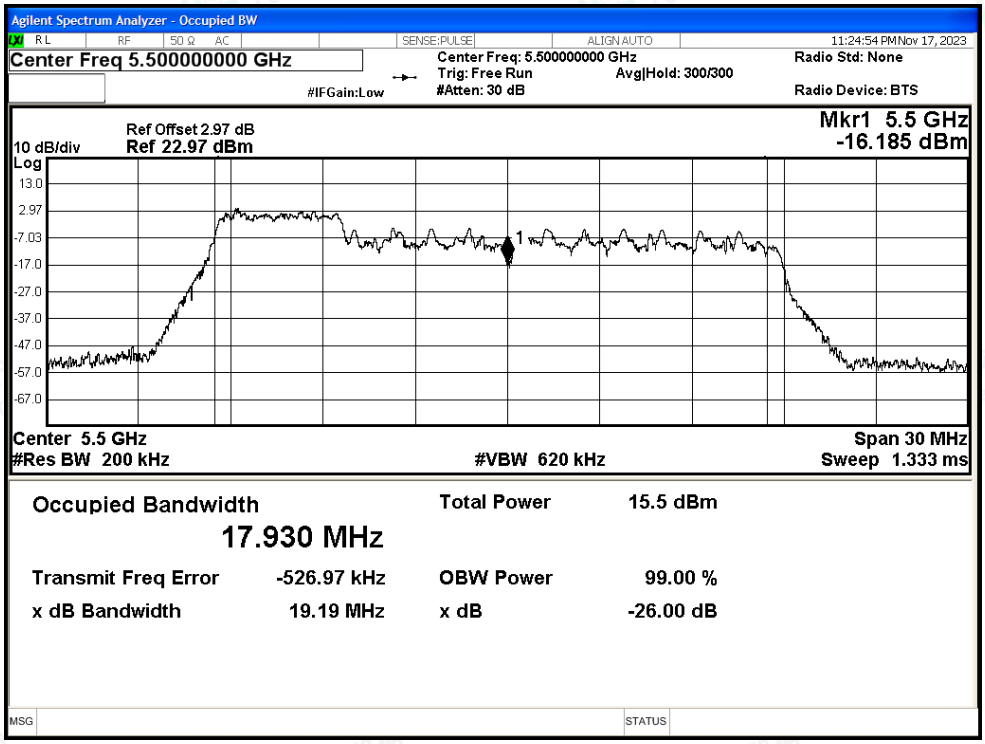


802.11ax OFDMA-(52 Tone)

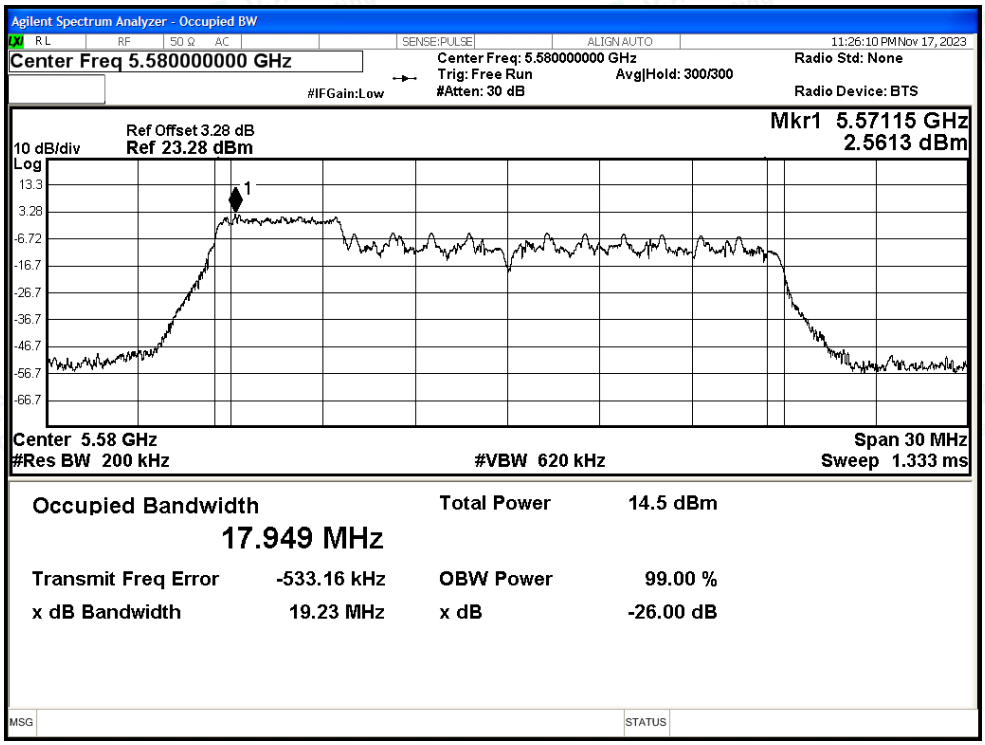
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant0	19.19
NVNT	ax20	5580	Ant0	19.23
NVNT	ax20	5700	Ant0	19.23
NVNT	ax40	5510	Ant0	19.05
NVNT	ax40	5550	Ant0	19.02
NVNT	ax40	5670	Ant0	18.96
NVNT	ax80	5530	Ant0	19.26
NVNT	ax80	5610	Ant0	19.10

Test Graphs

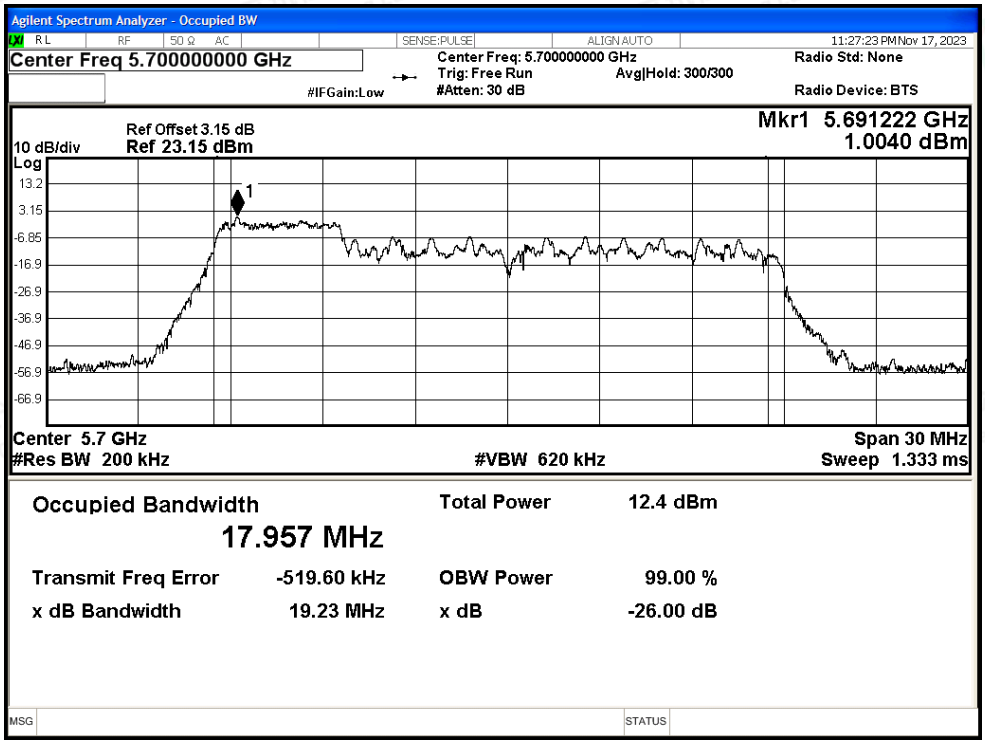
-26dB Bandwidth NVNT ax20 5500MHz Ant0



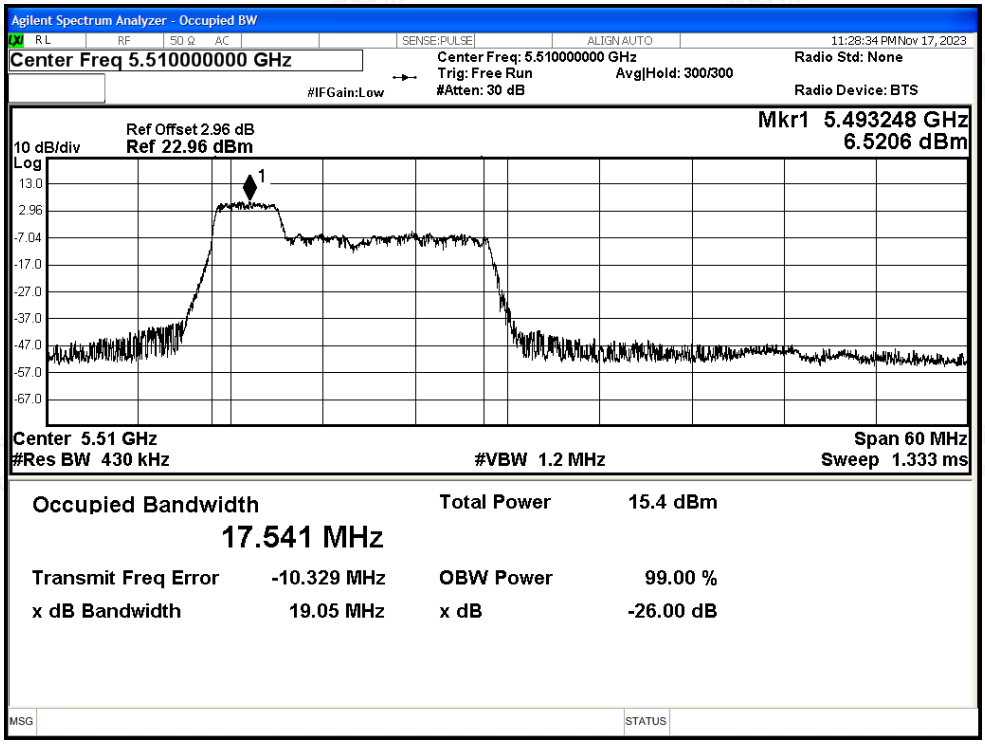
-26dB Bandwidth NVNT ax20 5580MHz Ant0



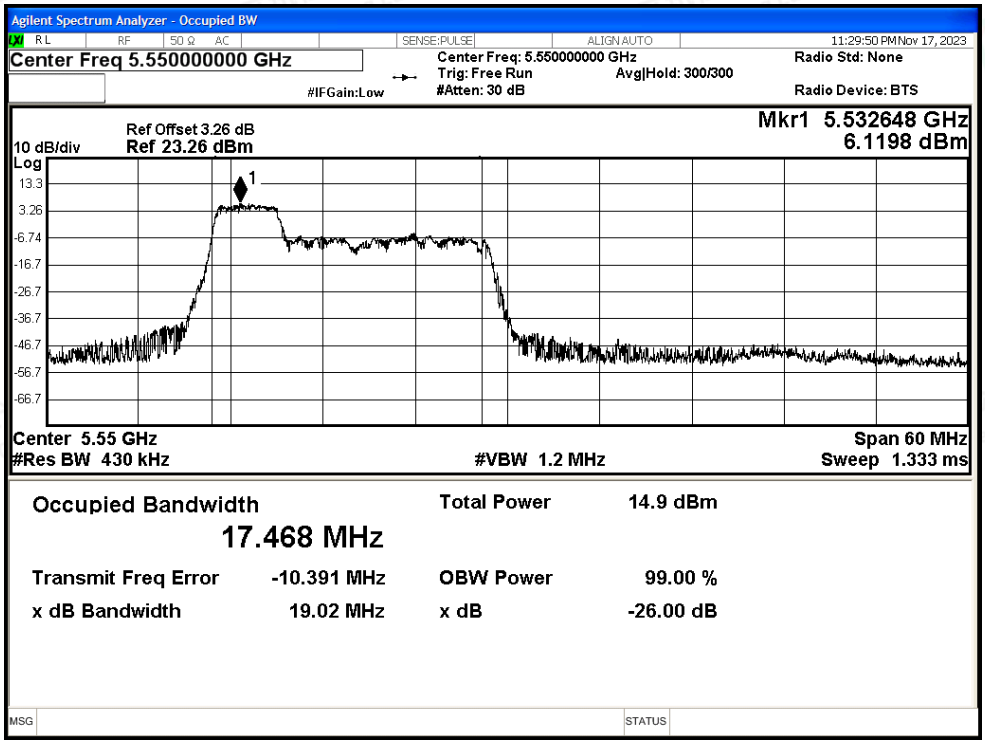
-26dB Bandwidth NVNT ax20 5700MHz Ant0



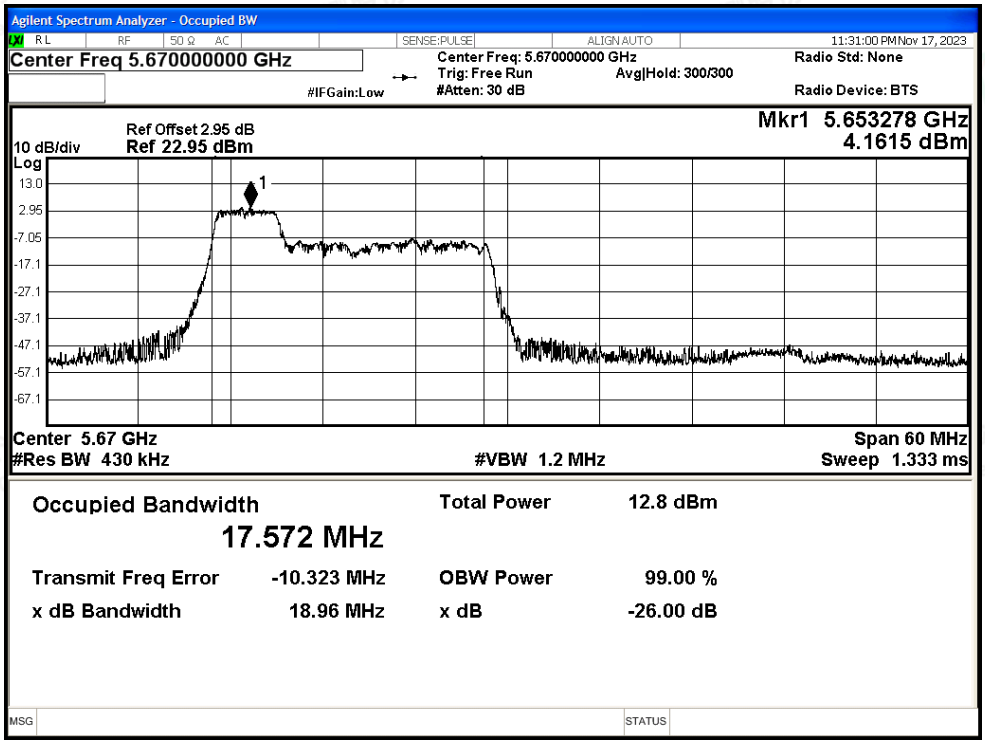
-26dB Bandwidth NVNT ax40 5510MHz Ant0



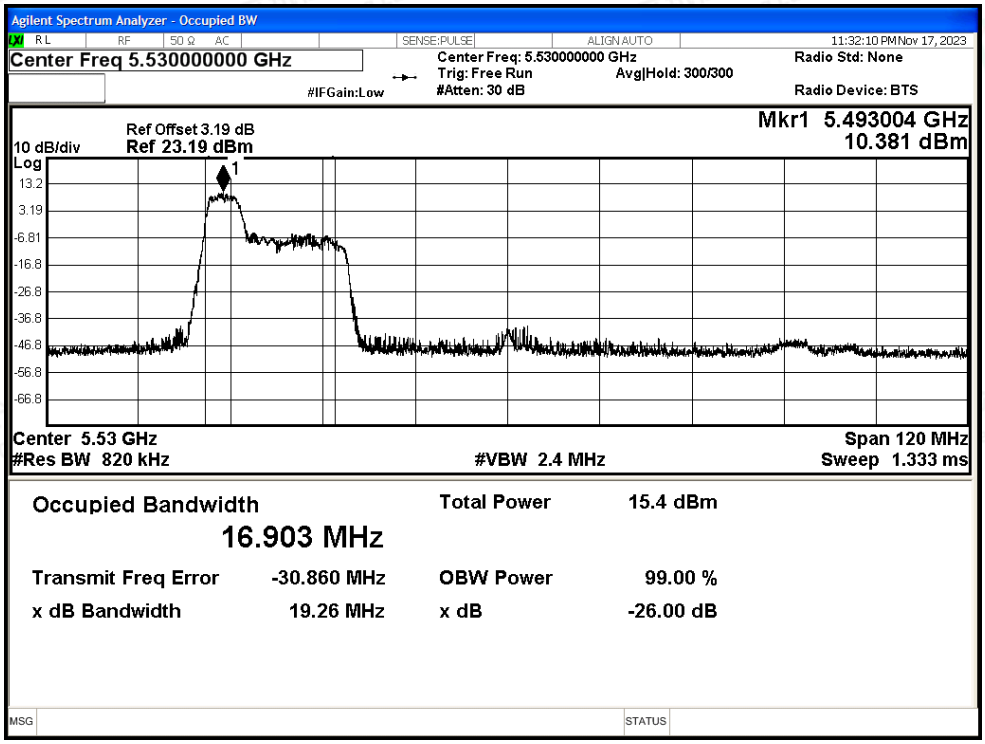
-26dB Bandwidth NVNT ax40 5550MHz Ant0



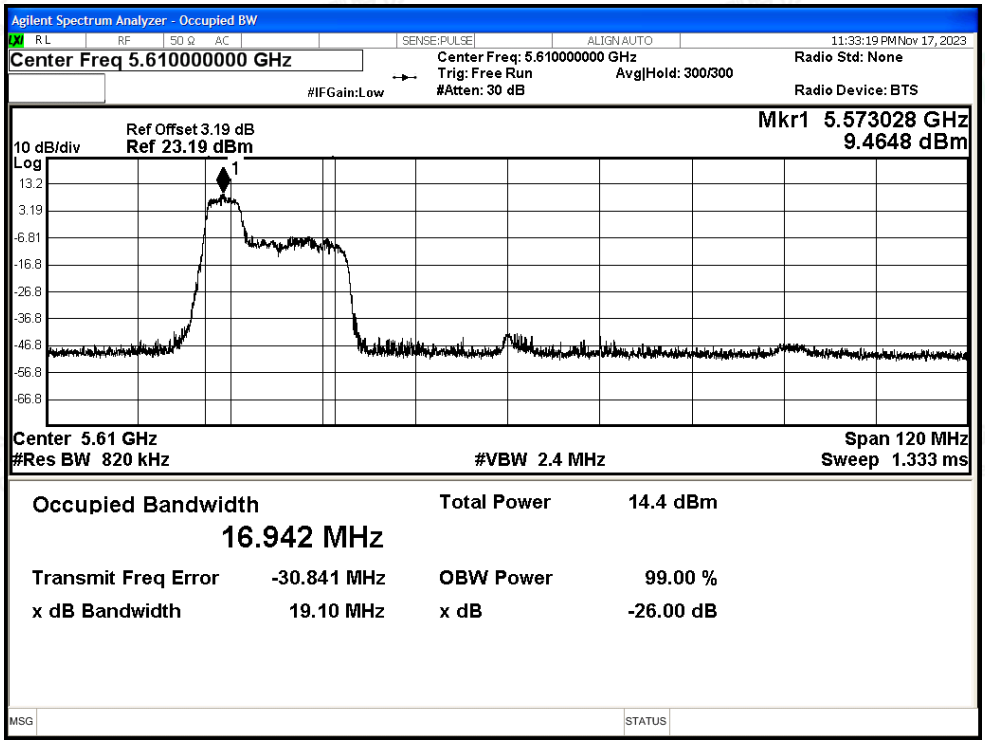
-26dB Bandwidth NVNT ax40 5670MHz Ant0



-26dB Bandwidth NVNT ax80 5530MHz Ant0



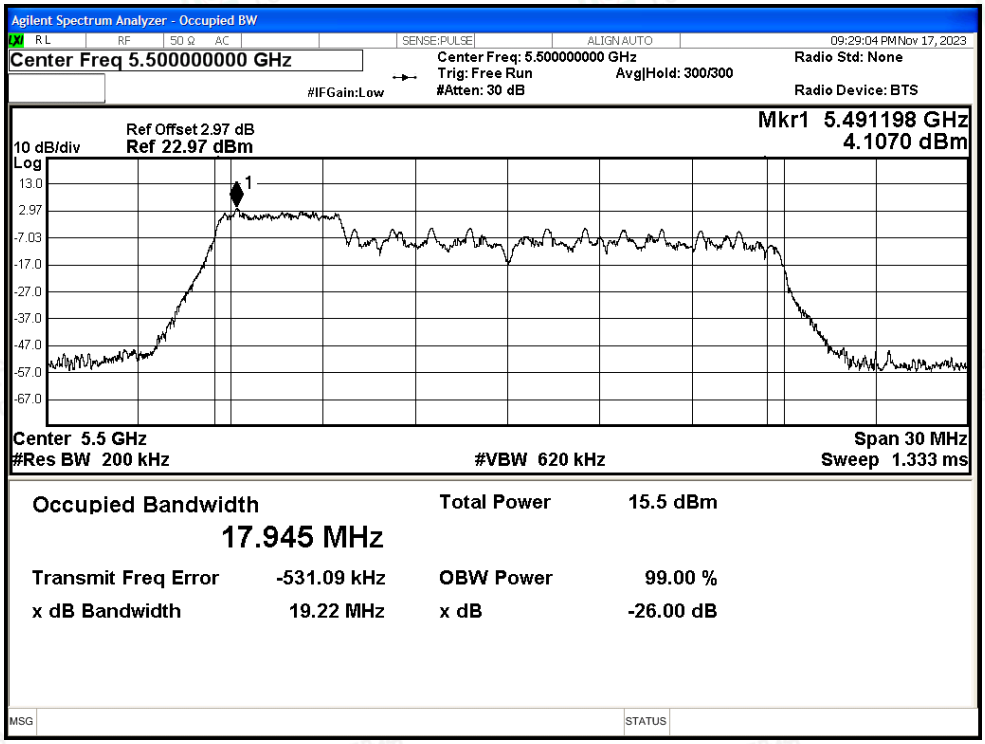
-26dB Bandwidth NVNT ax80 5610MHz Ant0



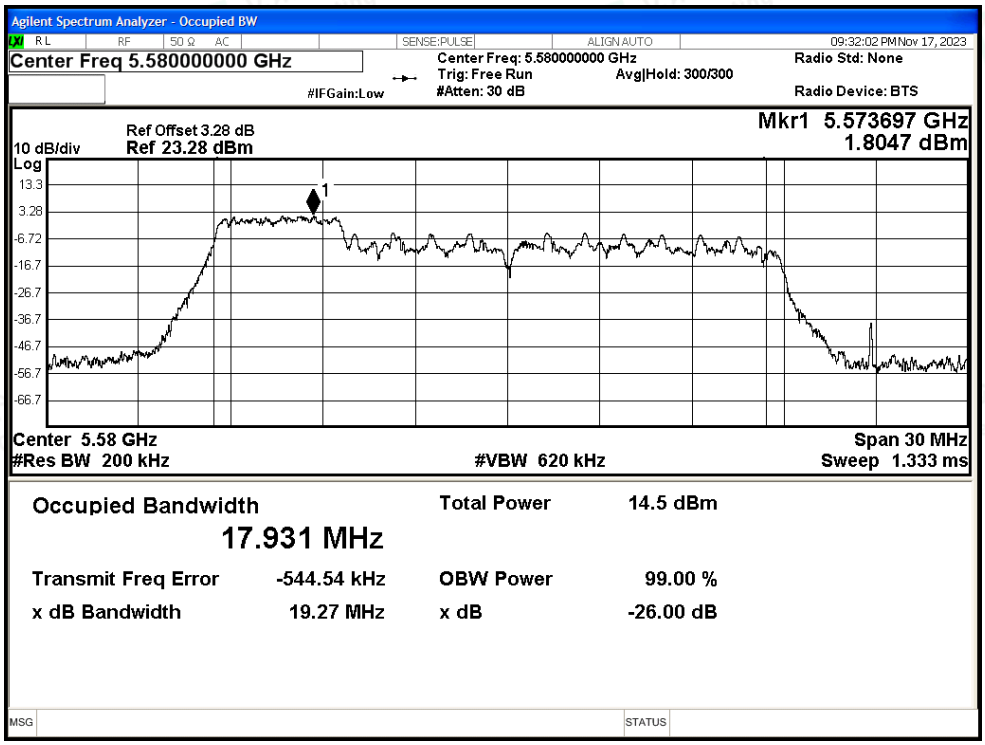
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant1	19.22
NVNT	ax20	5580	Ant1	19.27
NVNT	ax20	5700	Ant1	19.20
NVNT	ax40	5510	Ant1	19.00
NVNT	ax40	5550	Ant1	18.93
NVNT	ax40	5670	Ant1	19.01
NVNT	ax80	5530	Ant1	19.28
NVNT	ax80	5610	Ant1	19.14

Test Graphs

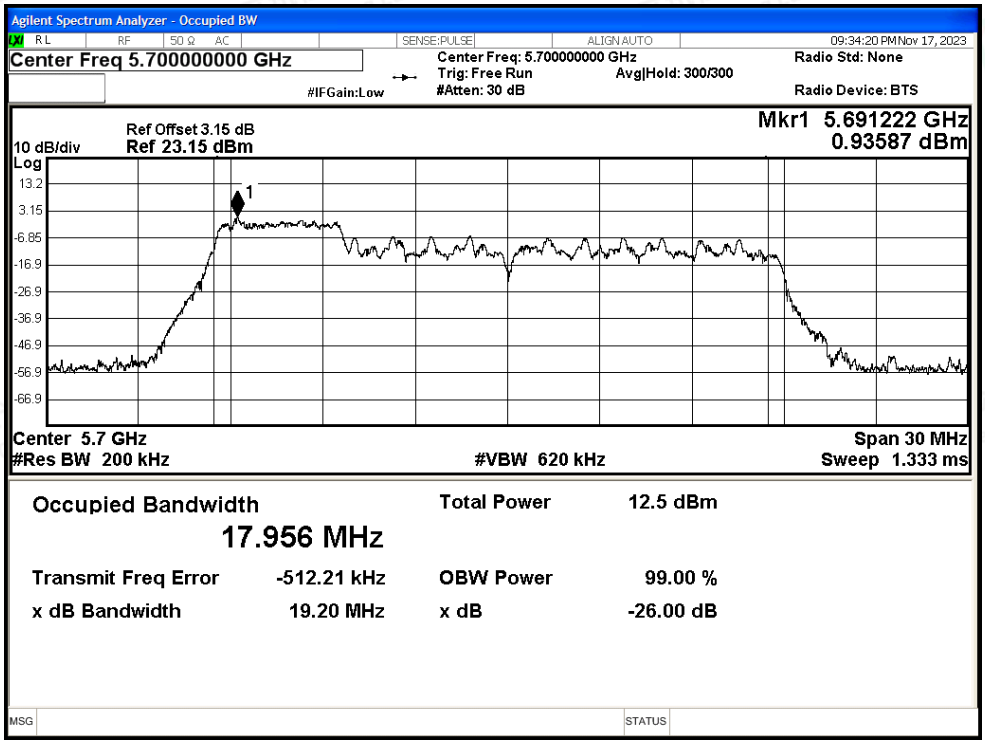
-26dB Bandwidth NVNT ax20 5500MHz Ant1



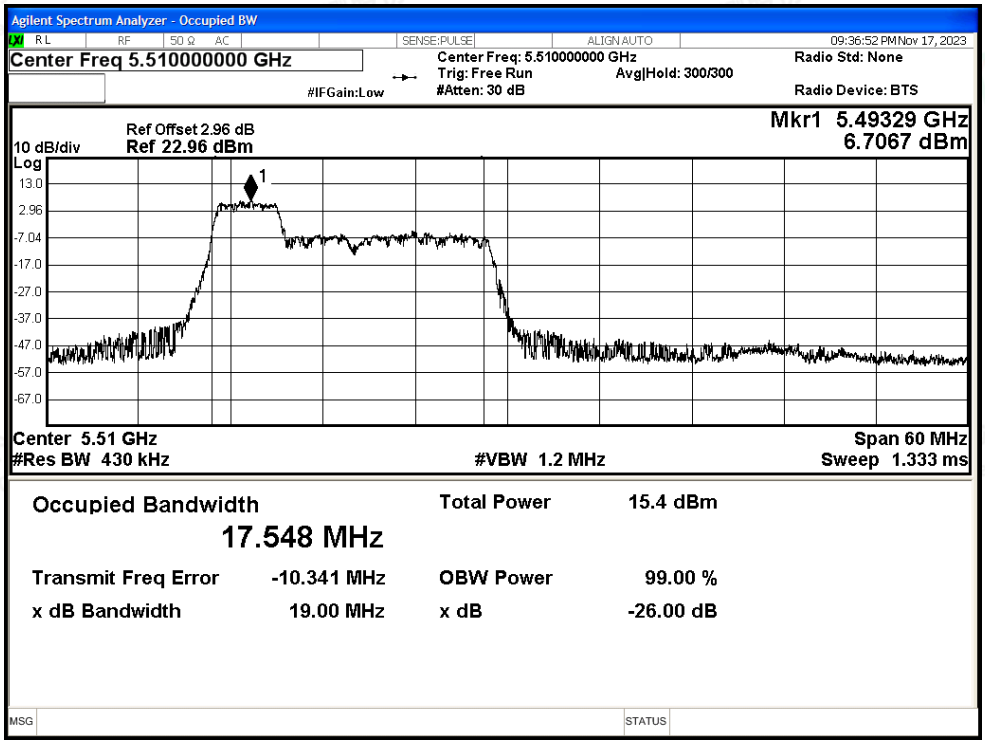
-26dB Bandwidth NVNT ax20 5580MHz Ant1



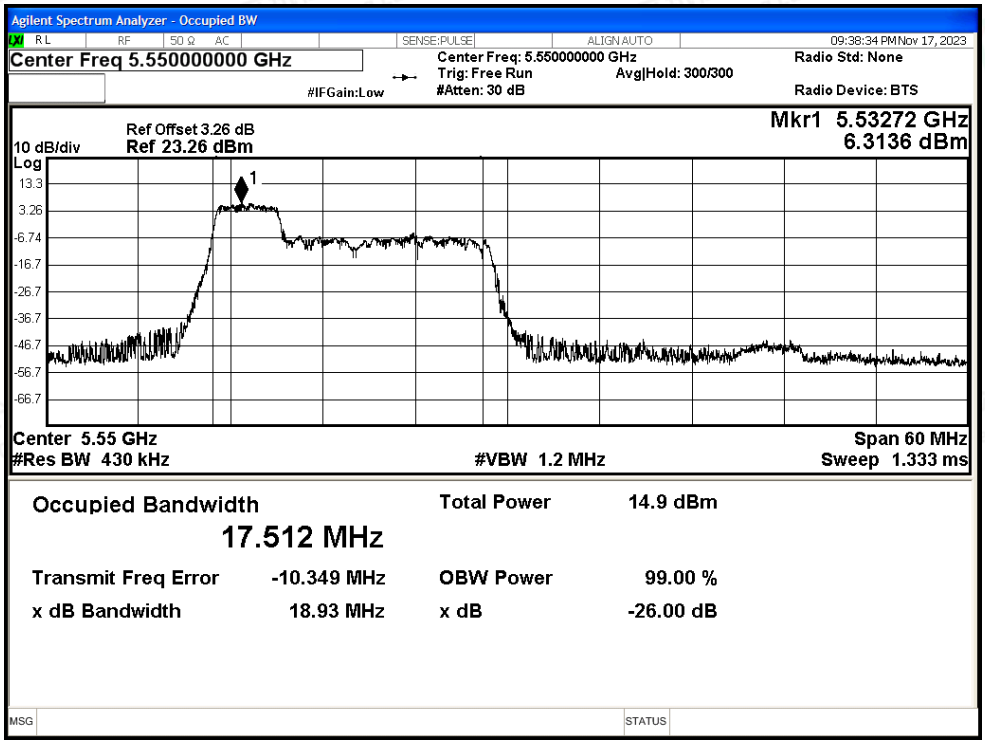
-26dB Bandwidth NVNT ax20 5700MHz Ant1



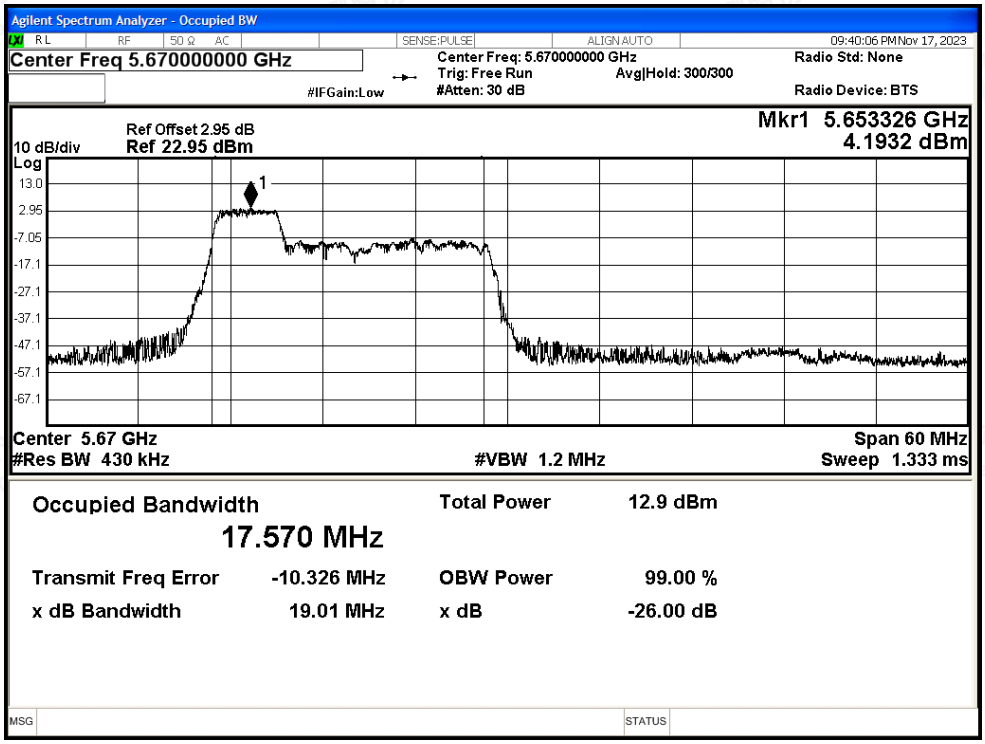
-26dB Bandwidth NVNT ax40 5510MHz Ant1



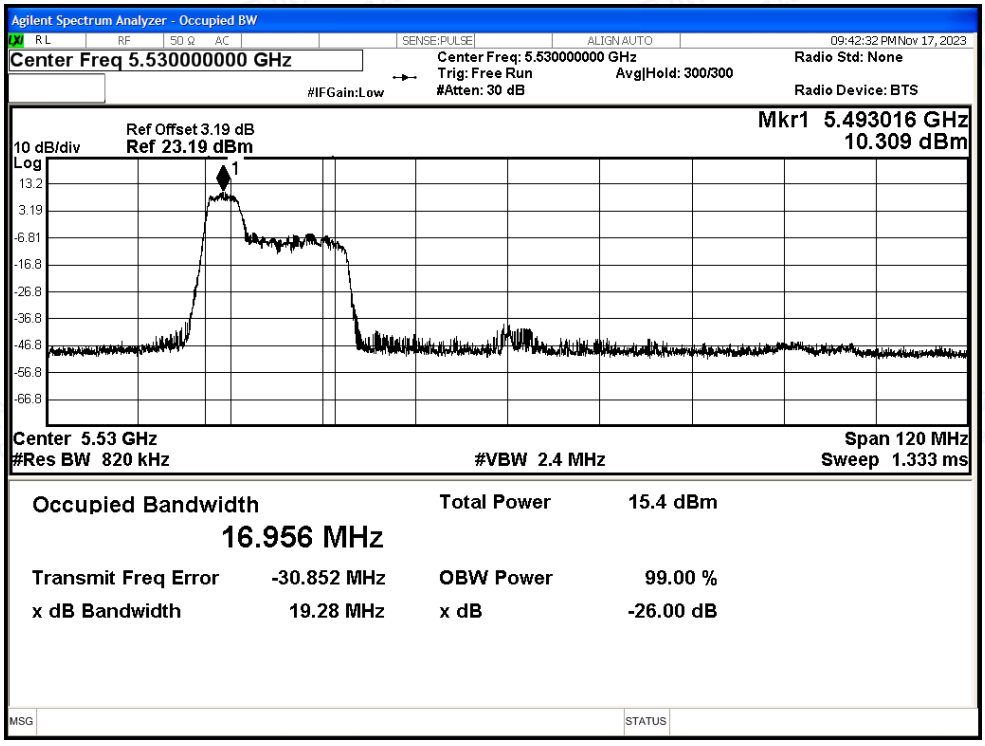
-26dB Bandwidth NVNT ax40 5550MHz Ant1



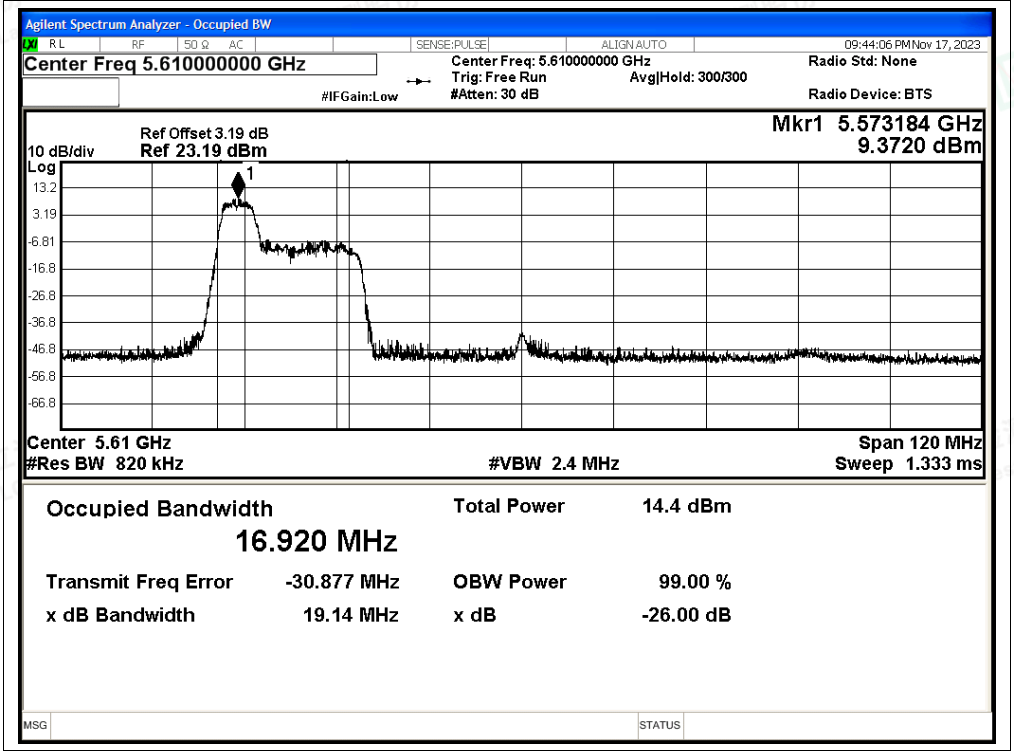
-26dB Bandwidth NVNT ax40 5670MHz Ant1



-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

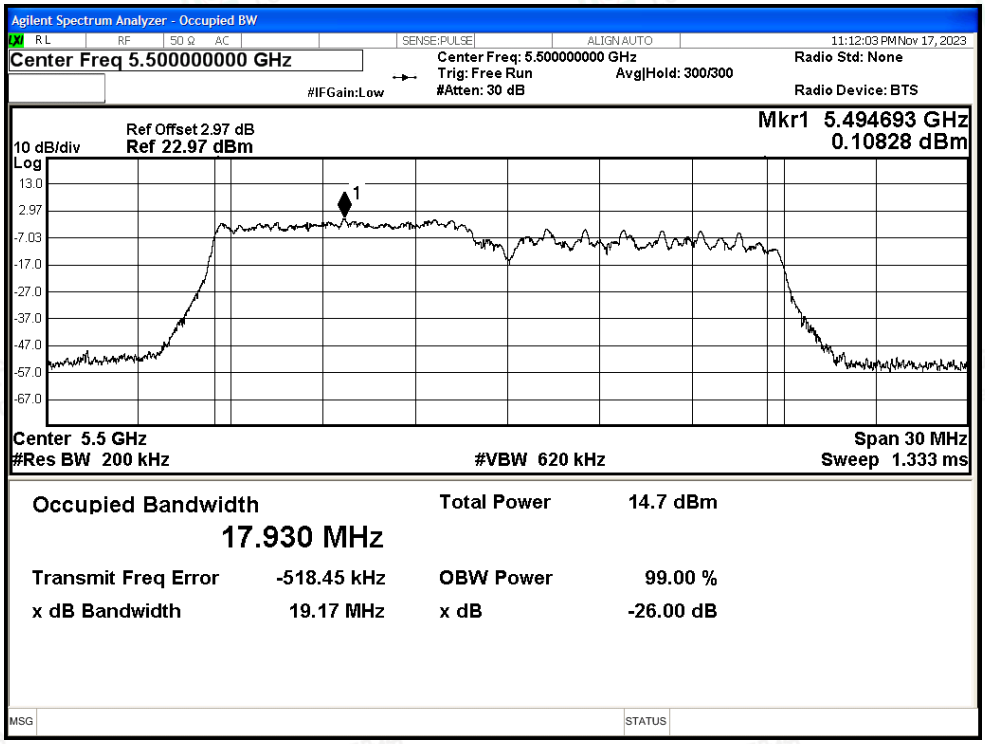


802.11ax OFDMA-(106 Tone)

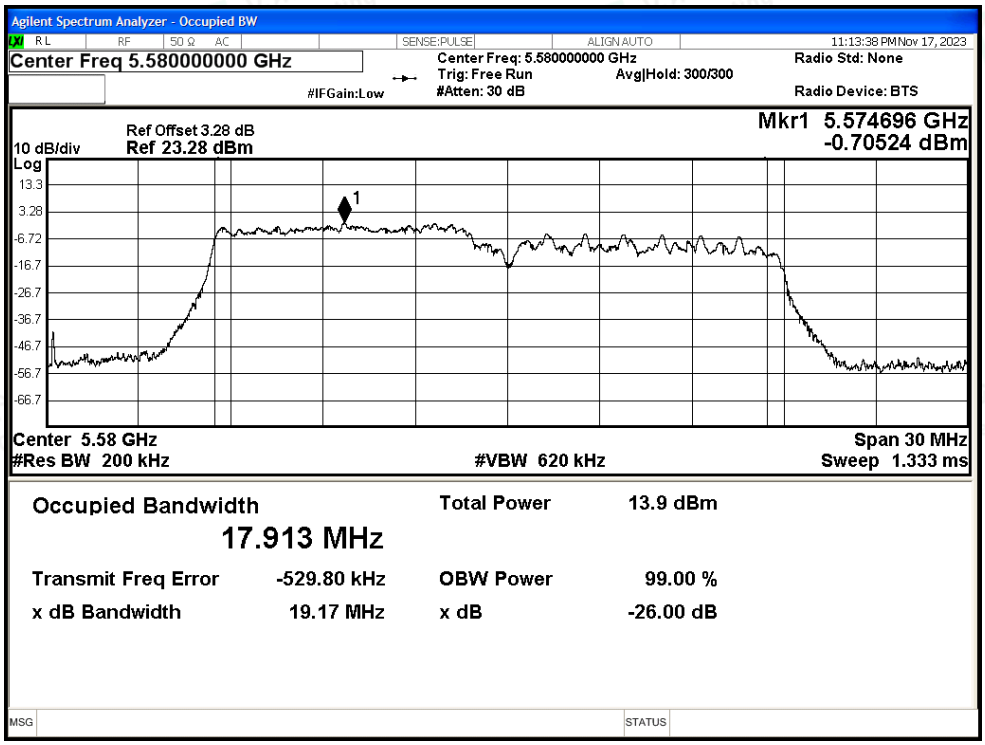
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant0	19.17
NVNT	ax20	5580	Ant0	19.17
NVNT	ax20	5700	Ant0	19.14
NVNT	ax40	5510	Ant0	19.08
NVNT	ax40	5550	Ant0	19.04
NVNT	ax40	5670	Ant0	19.04
NVNT	ax80	5530	Ant0	19.41
NVNT	ax80	5610	Ant0	19.40

Test Graphs

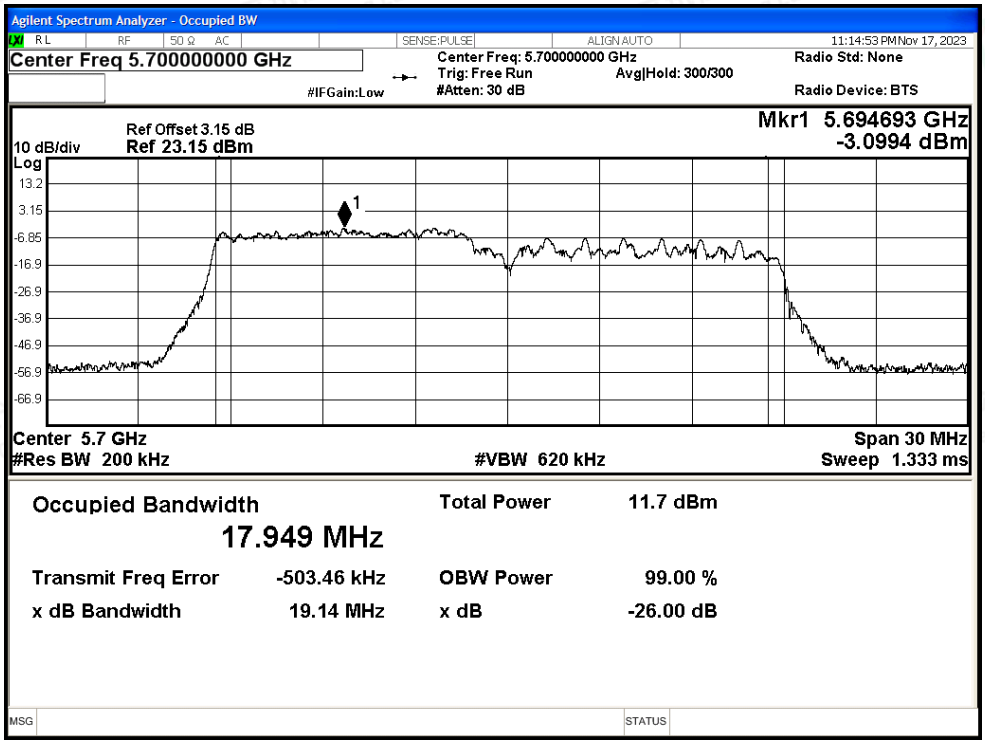
-26dB Bandwidth NVNT ax20 5500MHz Ant0



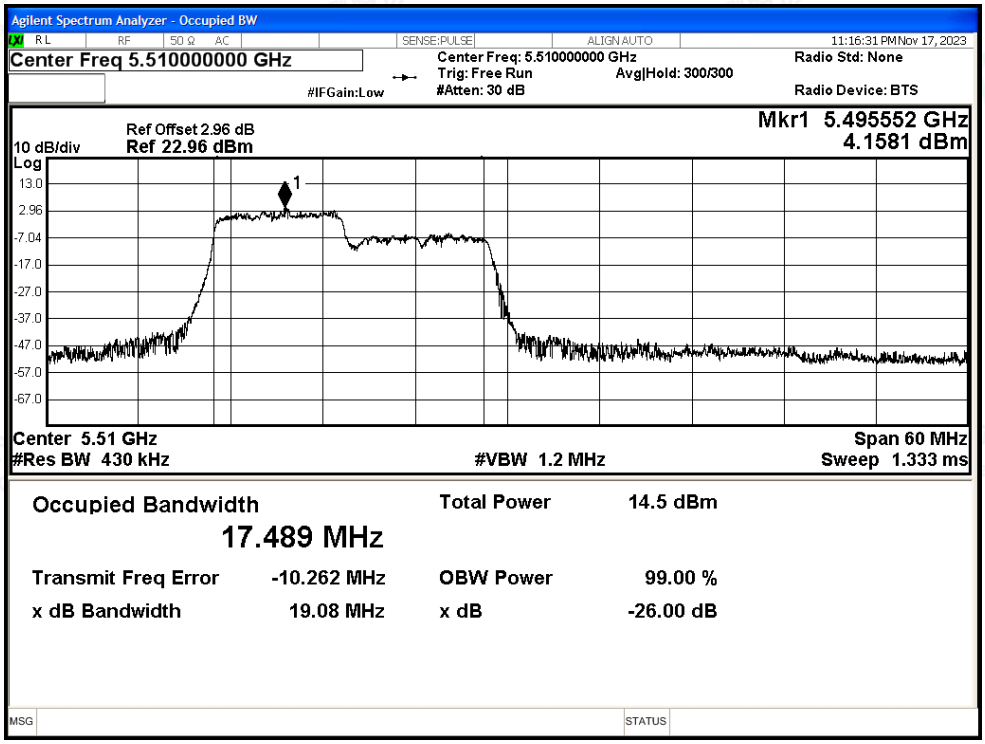
-26dB Bandwidth NVNT ax20 5580MHz Ant0



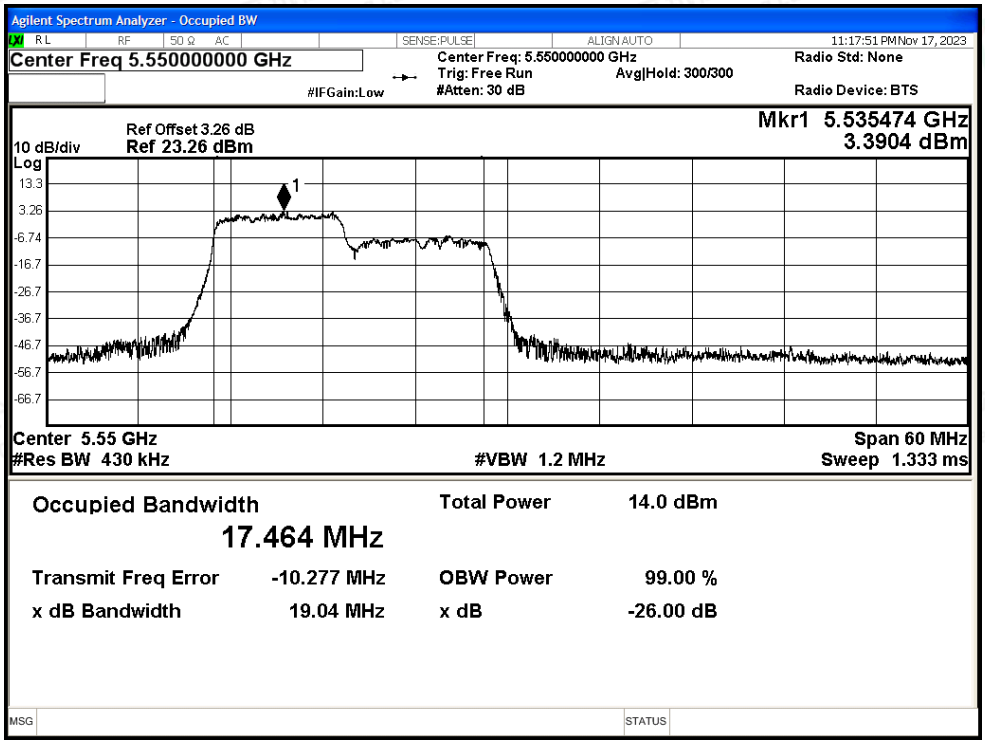
-26dB Bandwidth NVNT ax20 5700MHz Ant0



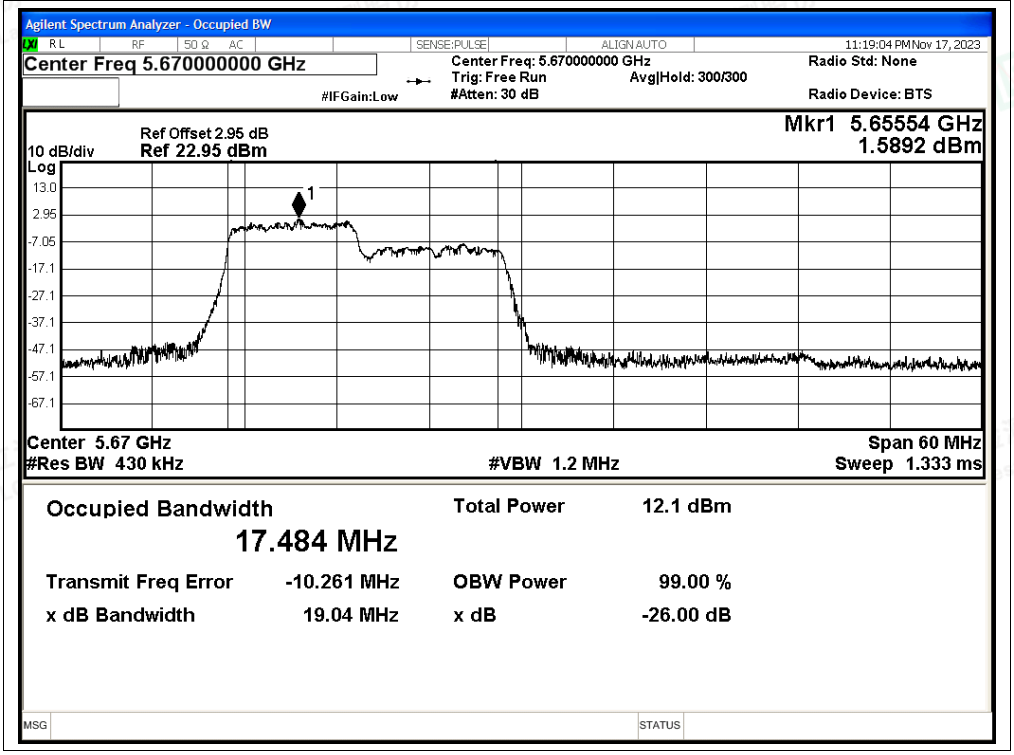
-26dB Bandwidth NVNT ax40 5510MHz Ant0



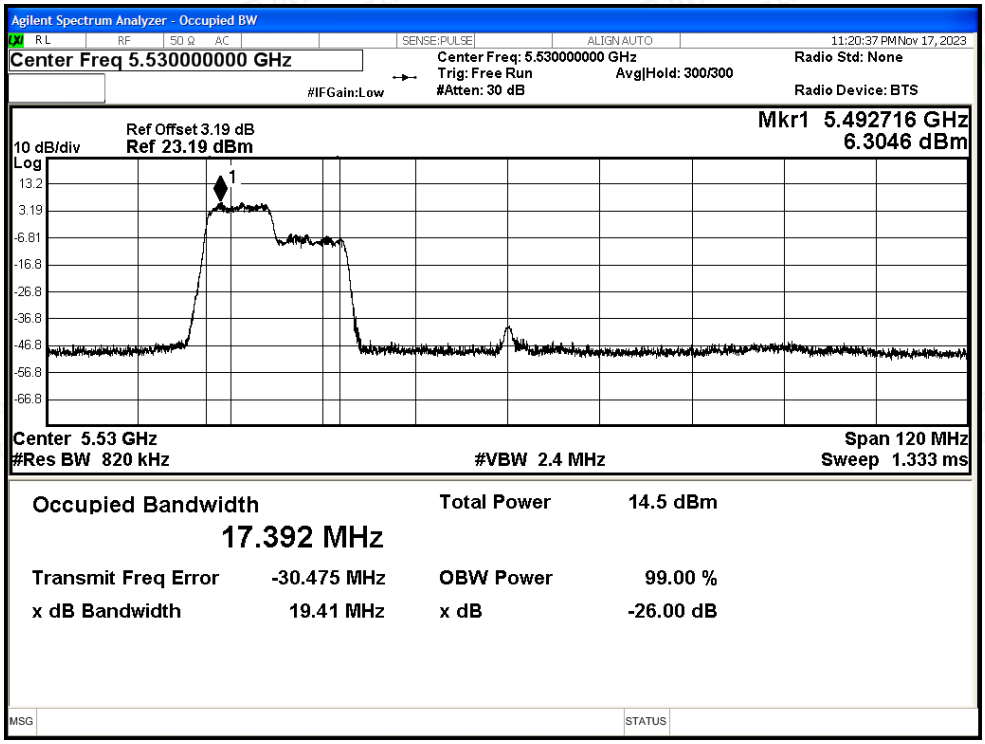
-26dB Bandwidth NVNT ax40 5550MHz Ant0



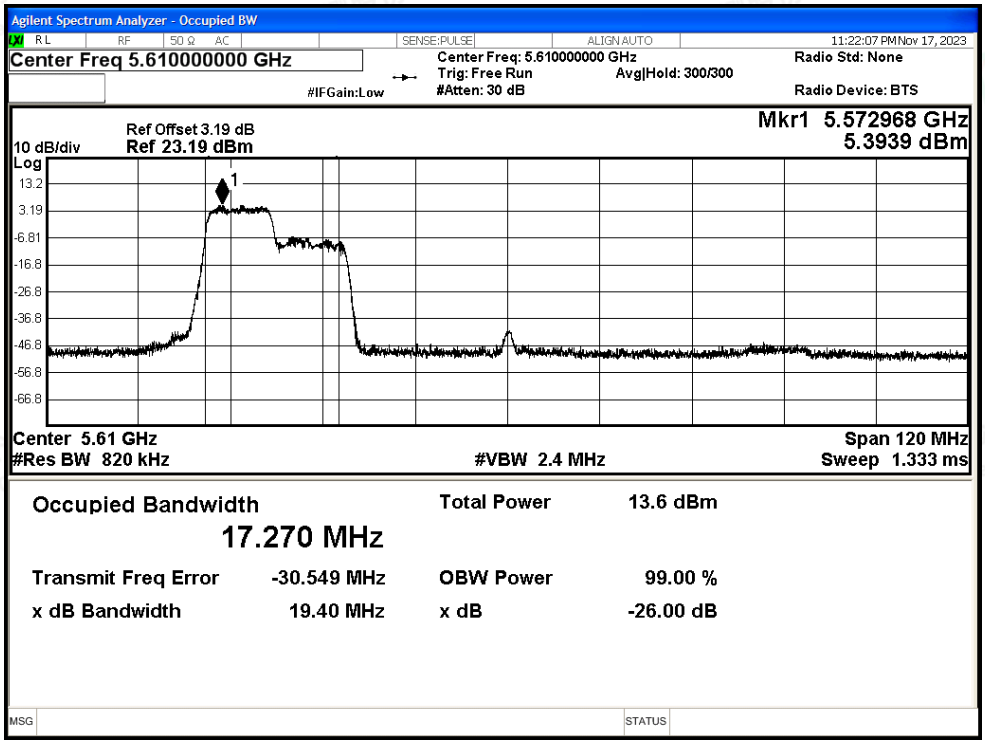
-26dB Bandwidth NVNT ax40 5670MHz Ant0



-26dB Bandwidth NVNT ax80 5530MHz Ant0



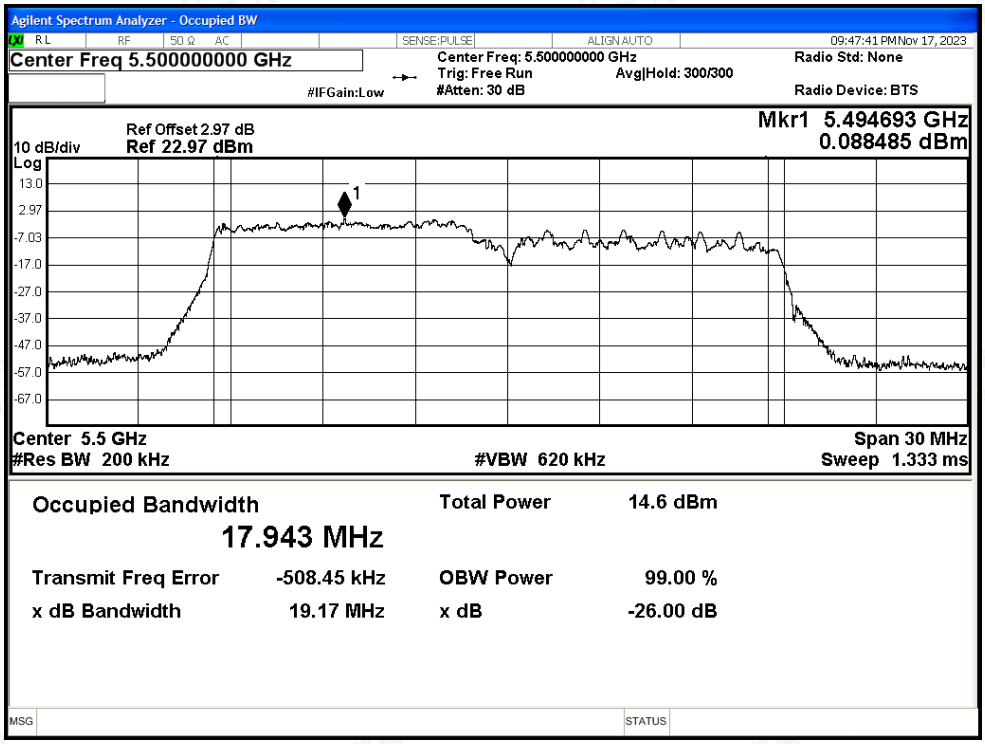
-26dB Bandwidth NVNT ax80 5610MHz Ant0



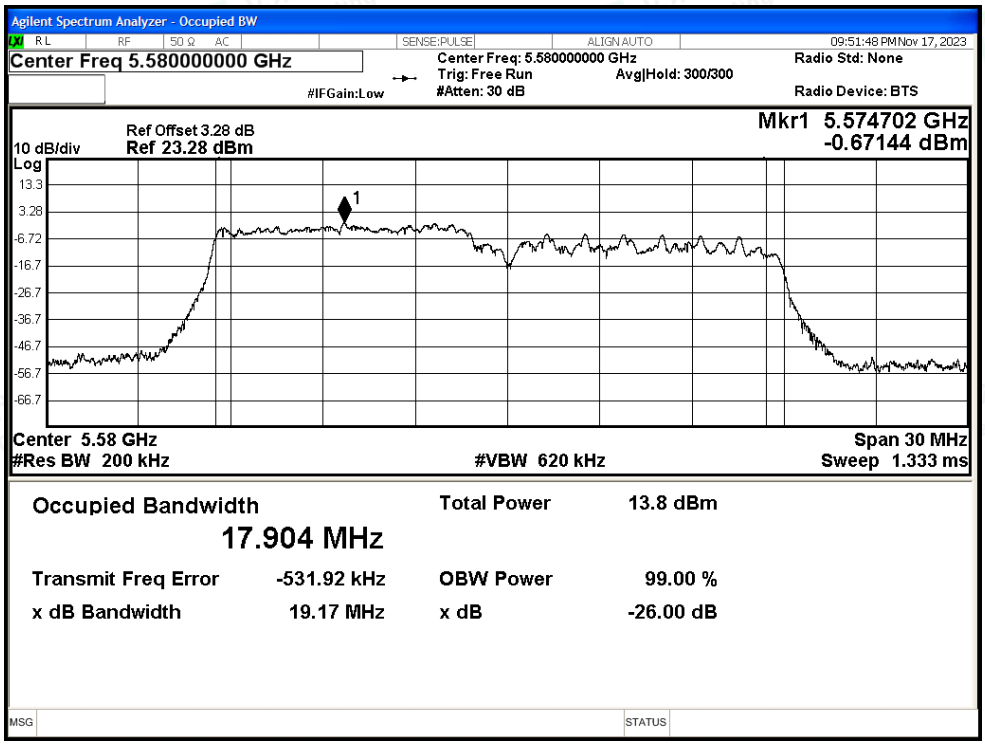
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant1	19.17
NVNT	ax20	5580	Ant1	19.17
NVNT	ax20	5700	Ant1	19.12
NVNT	ax40	5510	Ant1	19.09
NVNT	ax40	5550	Ant1	19.08
NVNT	ax40	5670	Ant1	19.06
NVNT	ax80	5530	Ant1	19.45
NVNT	ax80	5610	Ant1	19.34

Test Graphs

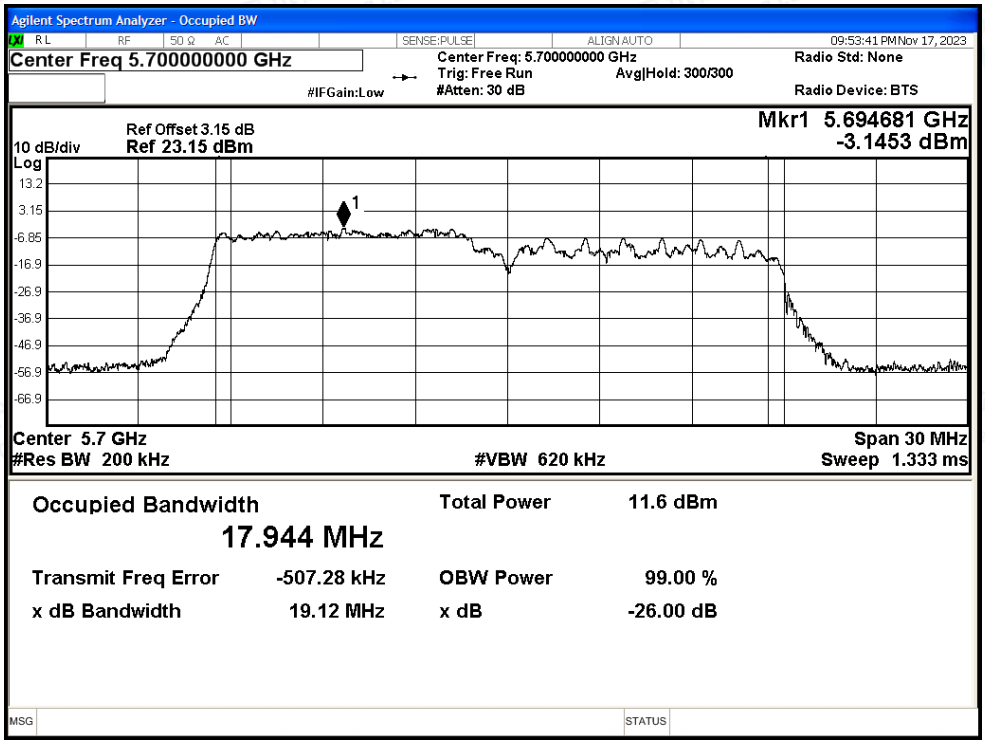
-26dB Bandwidth NVNT ax20 5500MHz Ant1



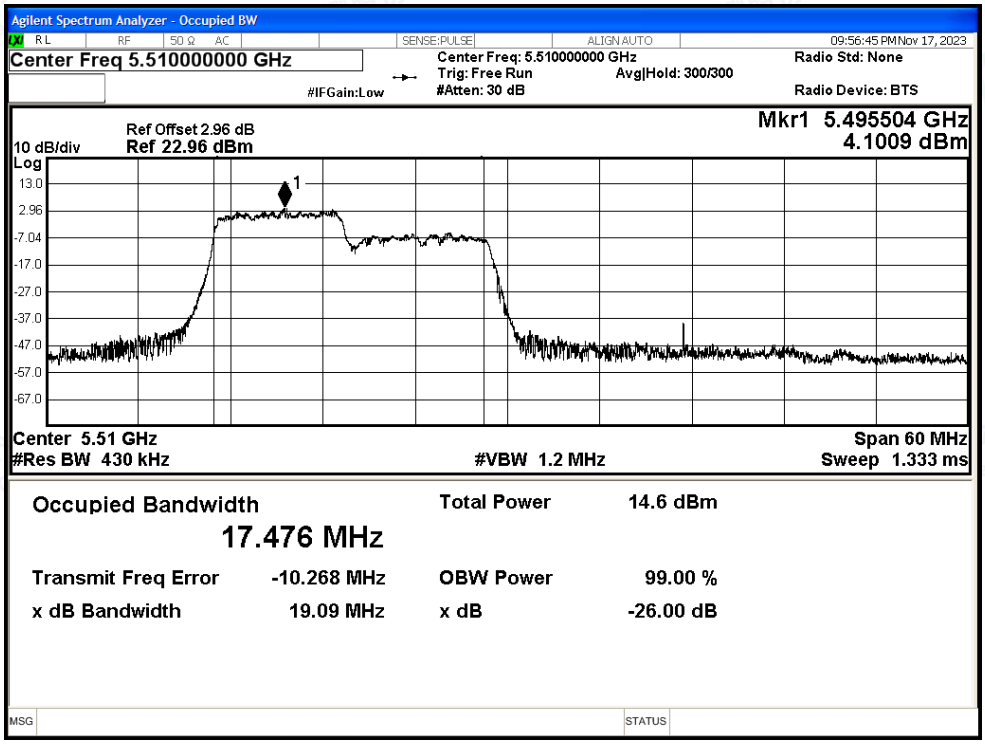
-26dB Bandwidth NVNT ax20 5580MHz Ant1



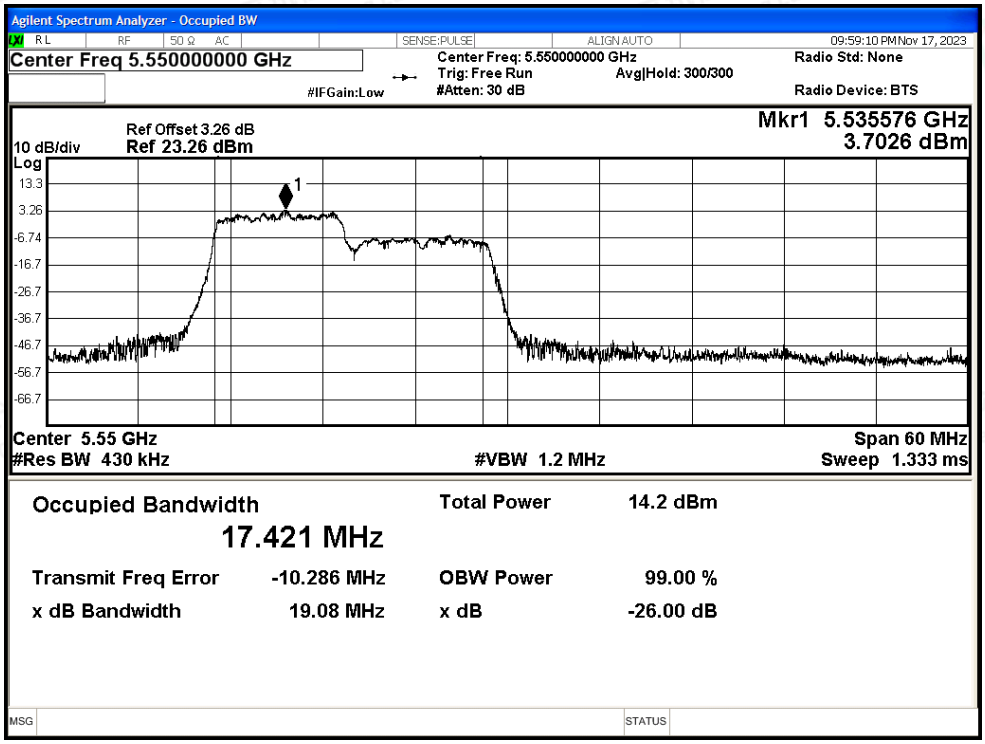
-26dB Bandwidth NVNT ax20 5700MHz Ant1



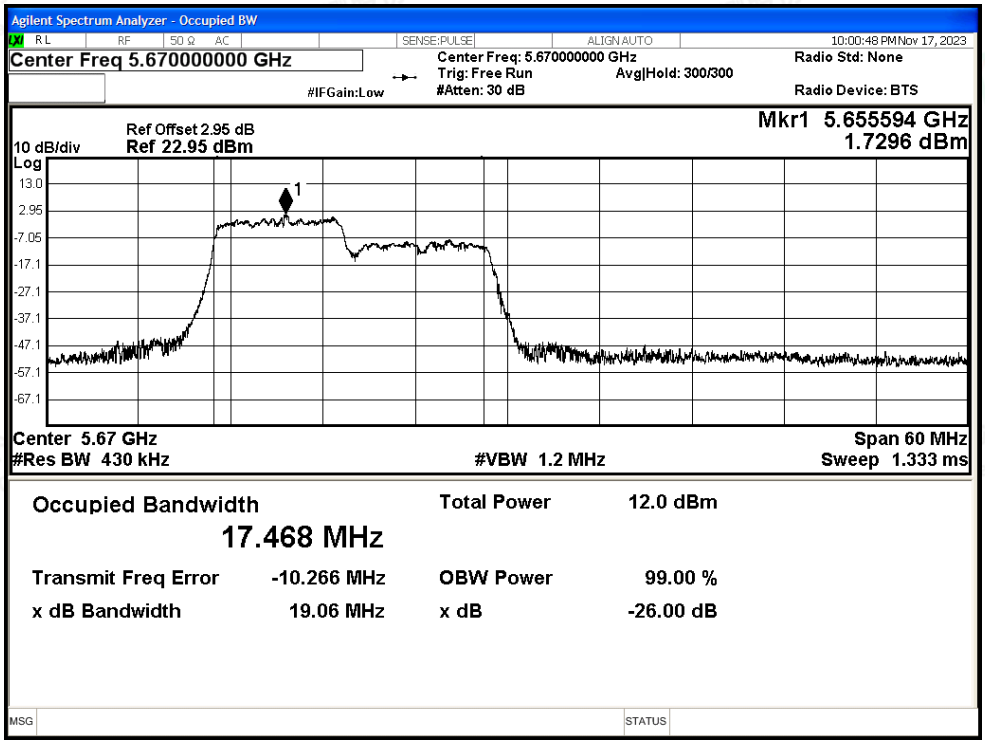
-26dB Bandwidth NVNT ax40 5510MHz Ant1



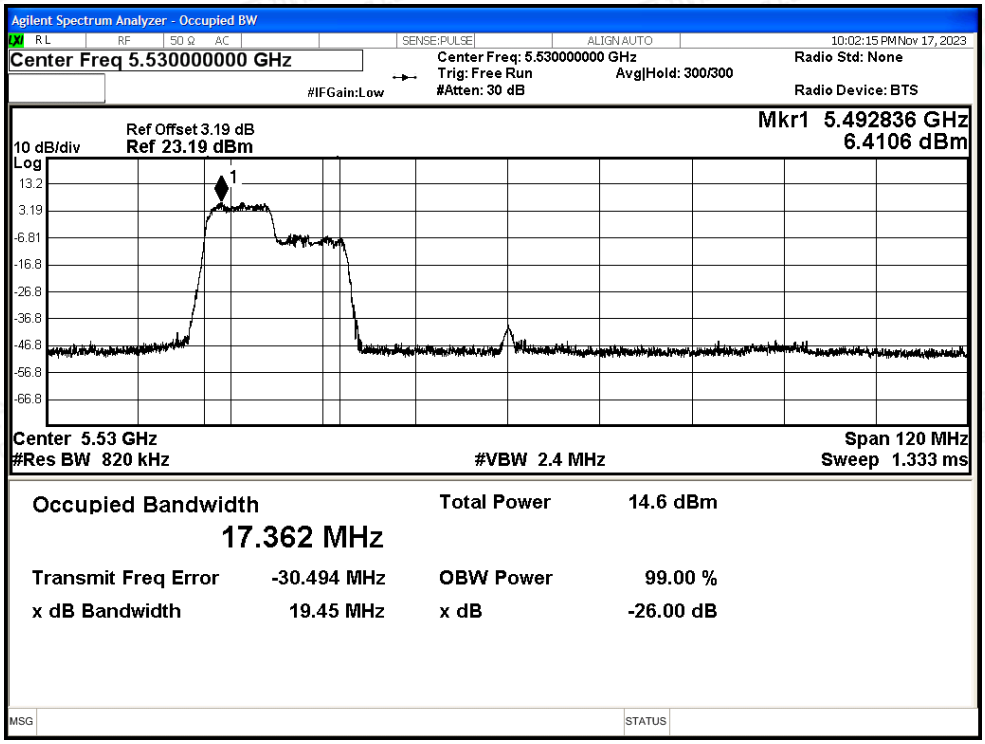
-26dB Bandwidth NVNT ax40 5550MHz Ant1



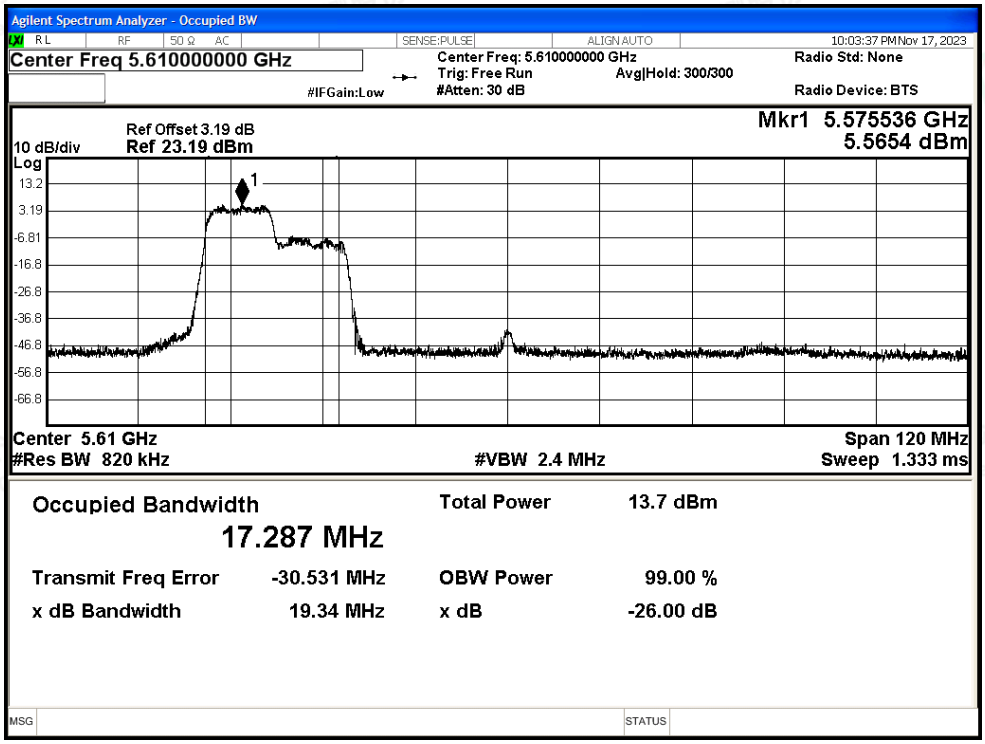
-26dB Bandwidth NVNT ax40 5670MHz Ant1



-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

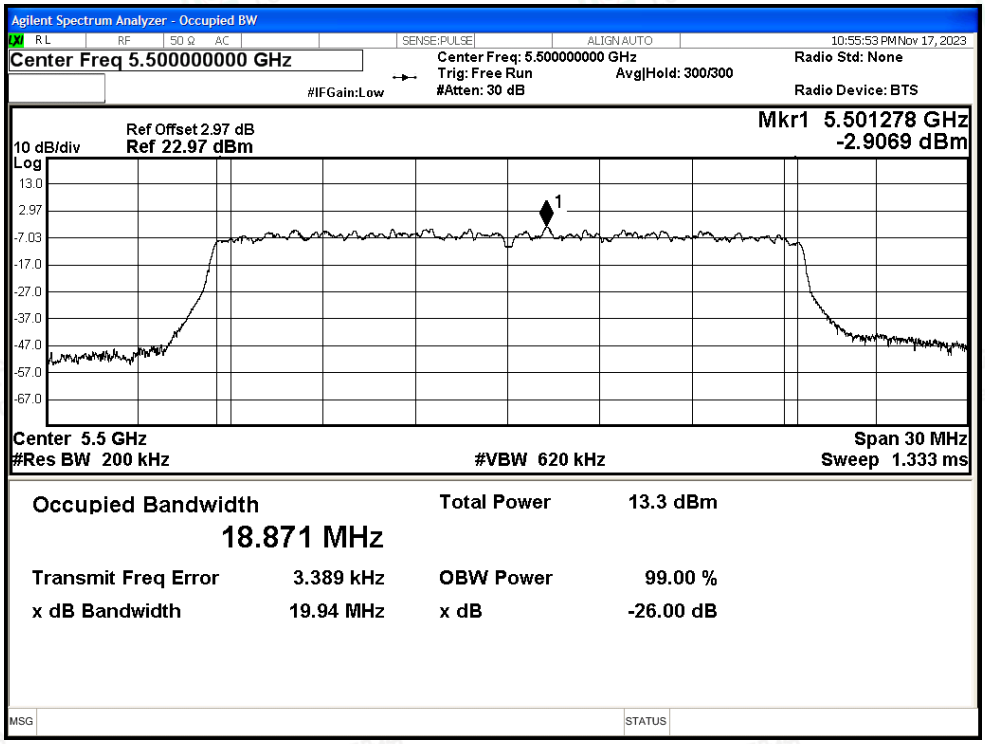


802.11ax OFDMA-(242 Tone)

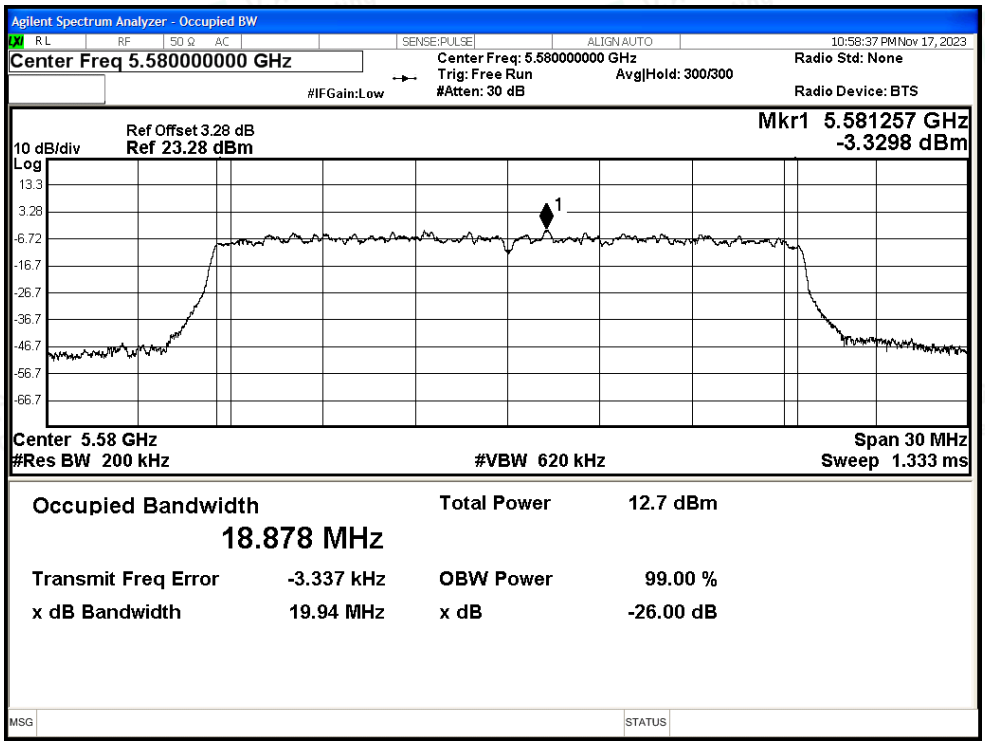
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant0	19.94
NVNT	ax20	5580	Ant0	19.94
NVNT	ax20	5700	Ant0	19.91
NVNT	ax40	5510	Ant0	20.38
NVNT	ax40	5550	Ant0	20.42
NVNT	ax40	5670	Ant0	20.39
NVNT	ax80	5530	Ant0	21.09
NVNT	ax80	5610	Ant0	21.12

Test Graphs

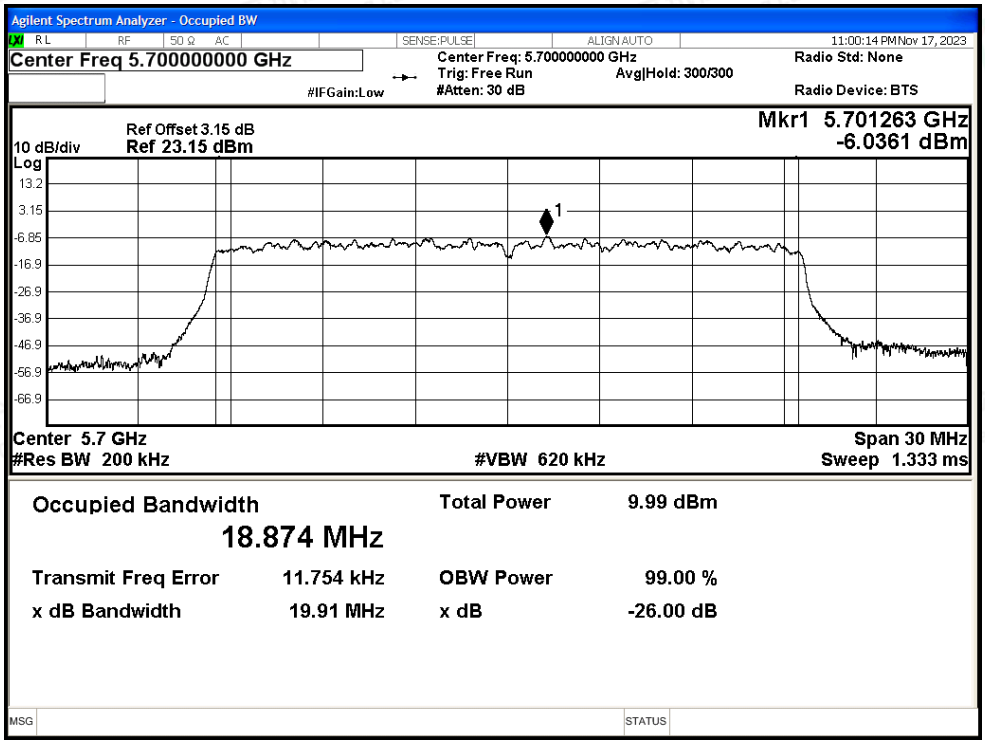
-26dB Bandwidth NVNT ax20 5500MHz Ant0



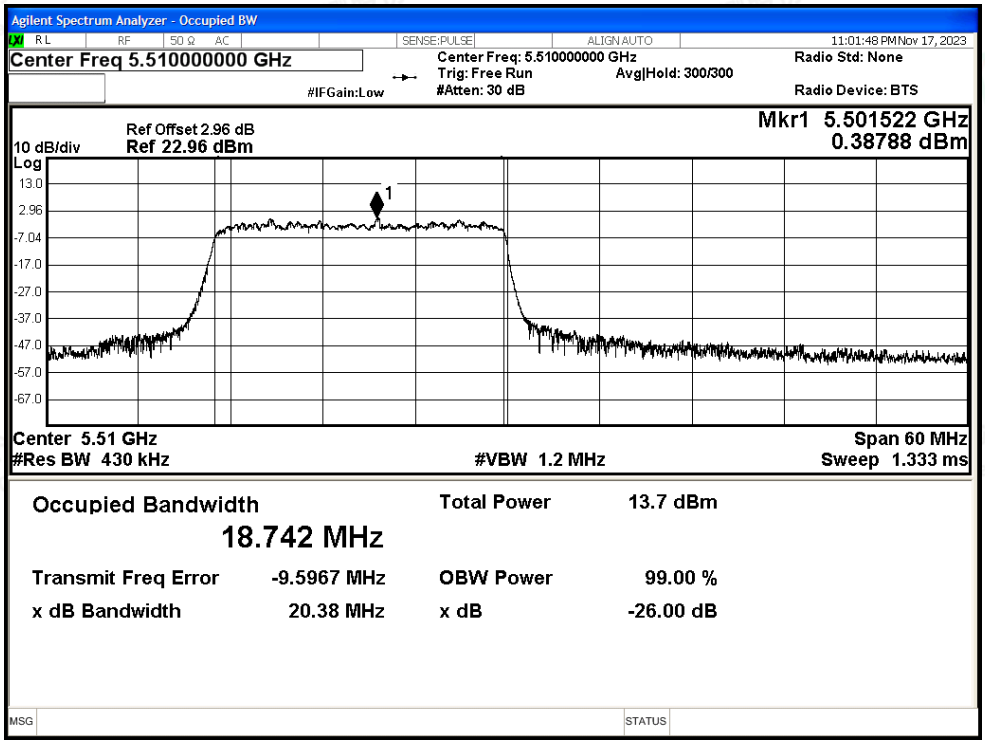
-26dB Bandwidth NVNT ax20 5580MHz Ant0



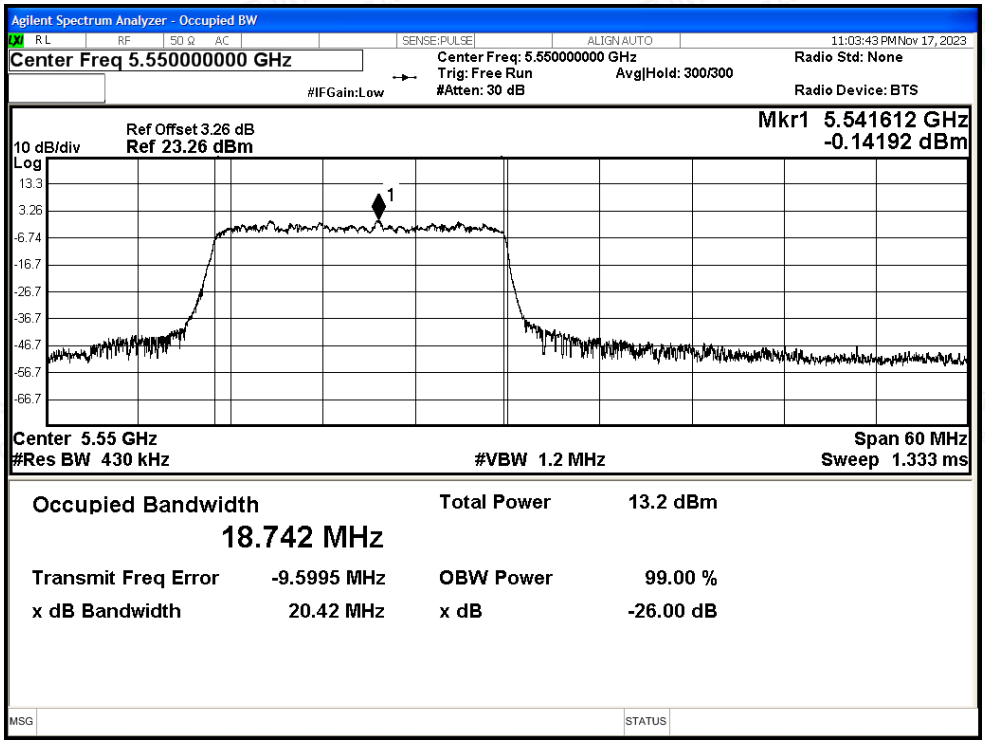
-26dB Bandwidth NVNT ax20 5700MHz Ant0



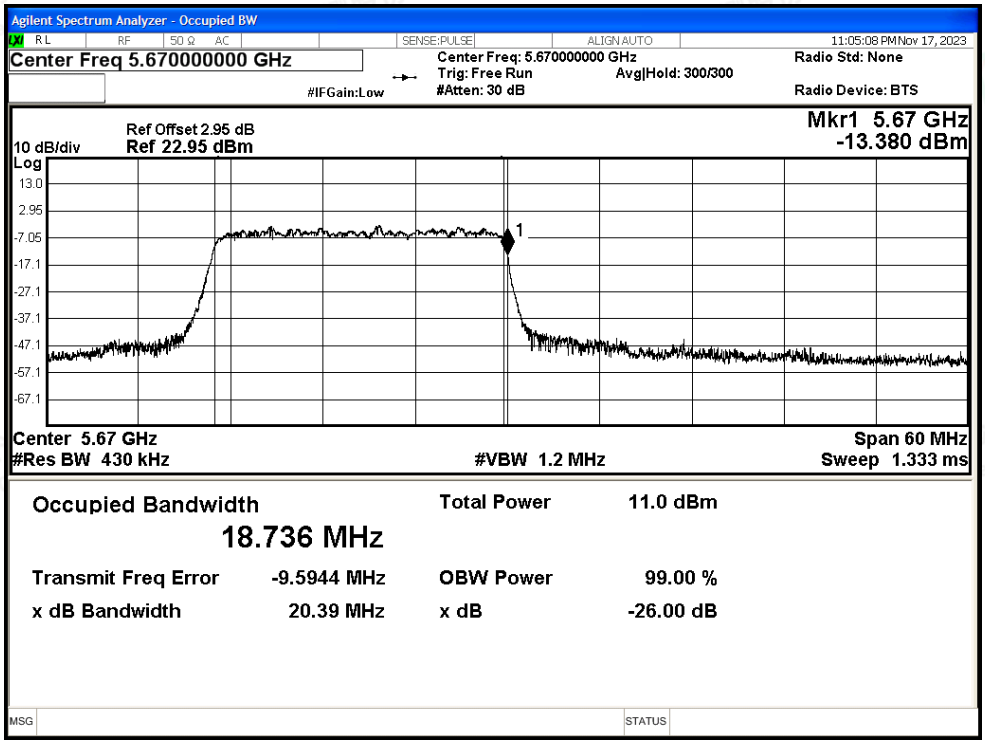
-26dB Bandwidth NVNT ax40 5510MHz Ant0



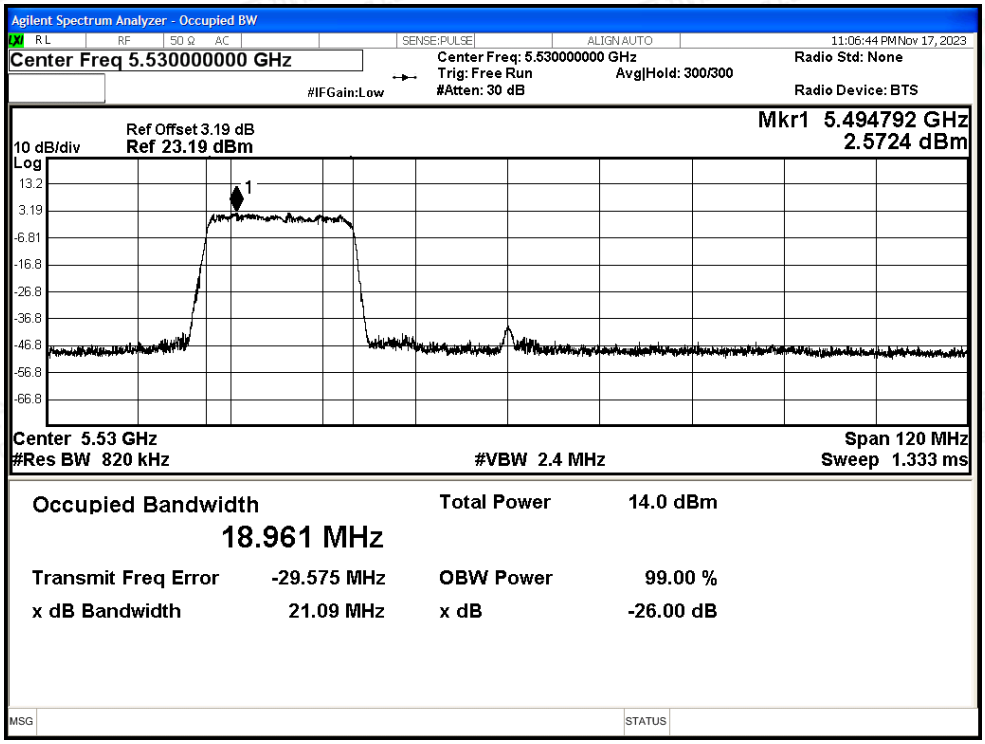
-26dB Bandwidth NVNT ax40 5550MHz Ant0



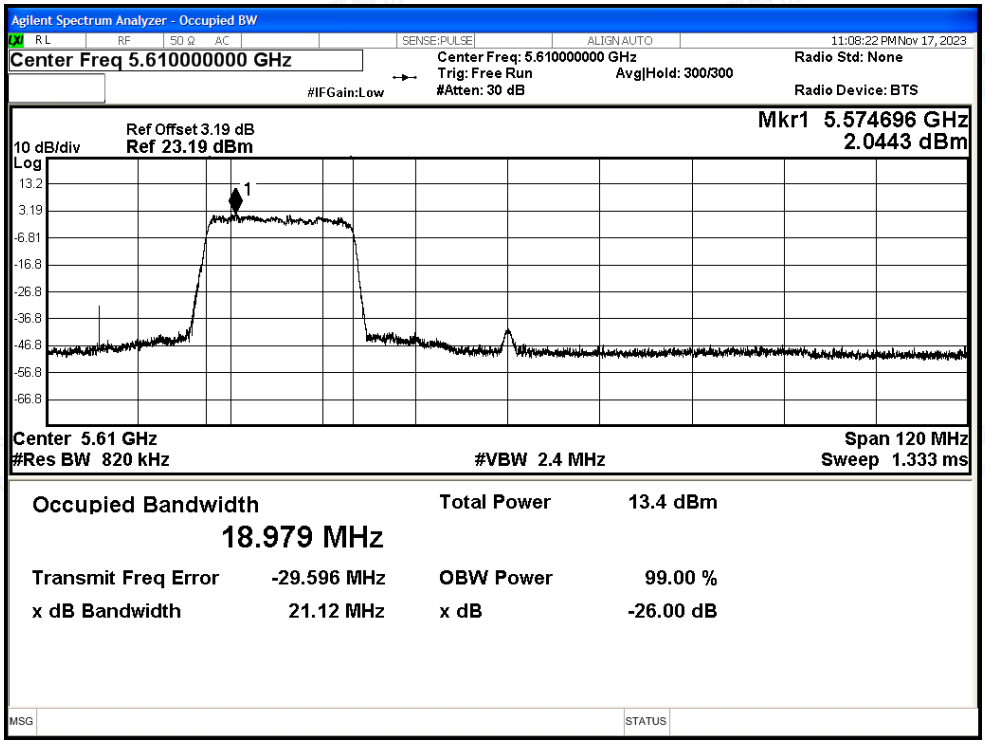
-26dB Bandwidth NVNT ax40 5670MHz Ant0



-26dB Bandwidth NVNT ax80 5530MHz Ant0



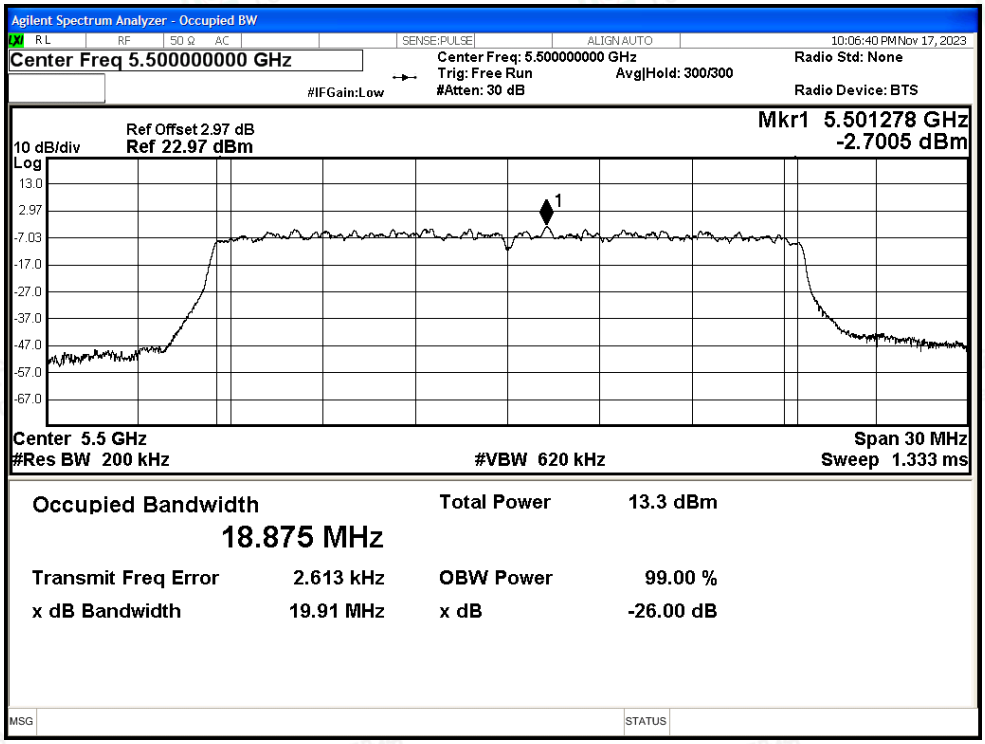
-26dB Bandwidth NVNT ax80 5610MHz Ant0



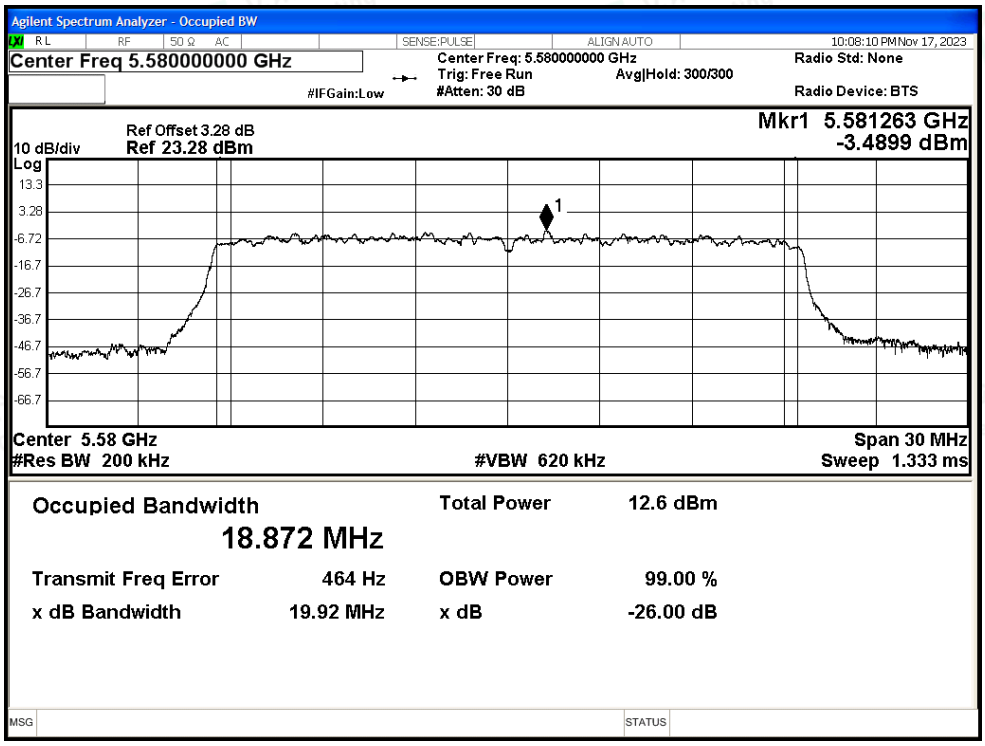
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax20	5500	Ant1	19.91
NVNT	ax20	5580	Ant1	19.92
NVNT	ax20	5700	Ant1	20.20
NVNT	ax40	5510	Ant1	20.39
NVNT	ax40	5550	Ant1	20.42
NVNT	ax40	5670	Ant1	20.38
NVNT	ax80	5530	Ant1	21.00
NVNT	ax80	5610	Ant1	21.13

Test Graphs

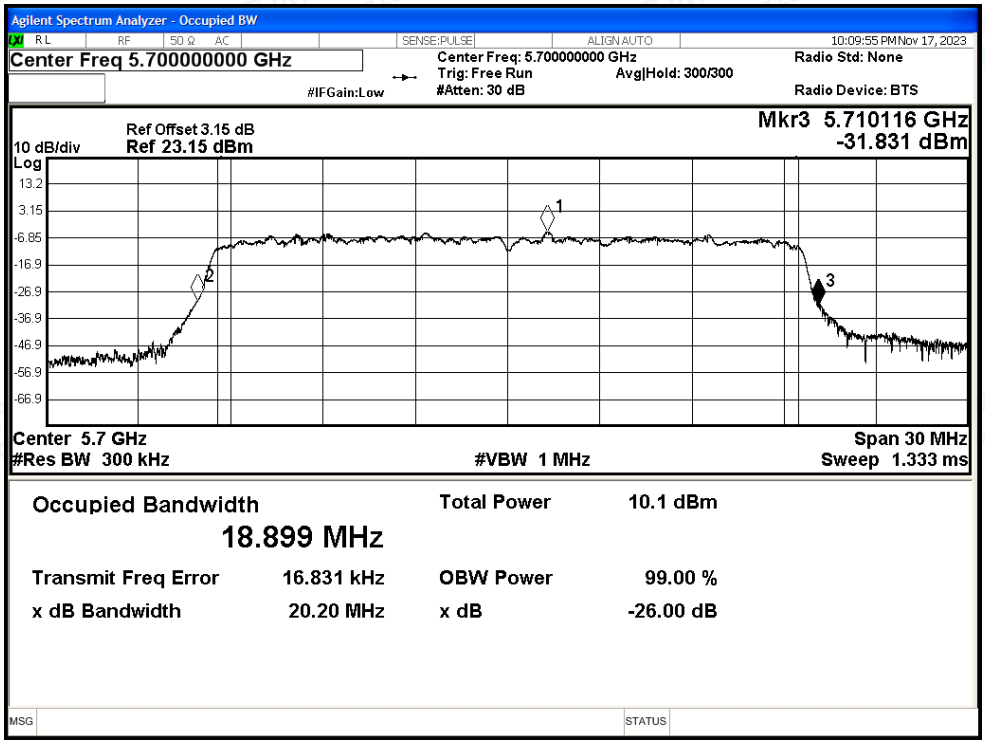
-26dB Bandwidth NVNT ax20 5500MHz Ant1



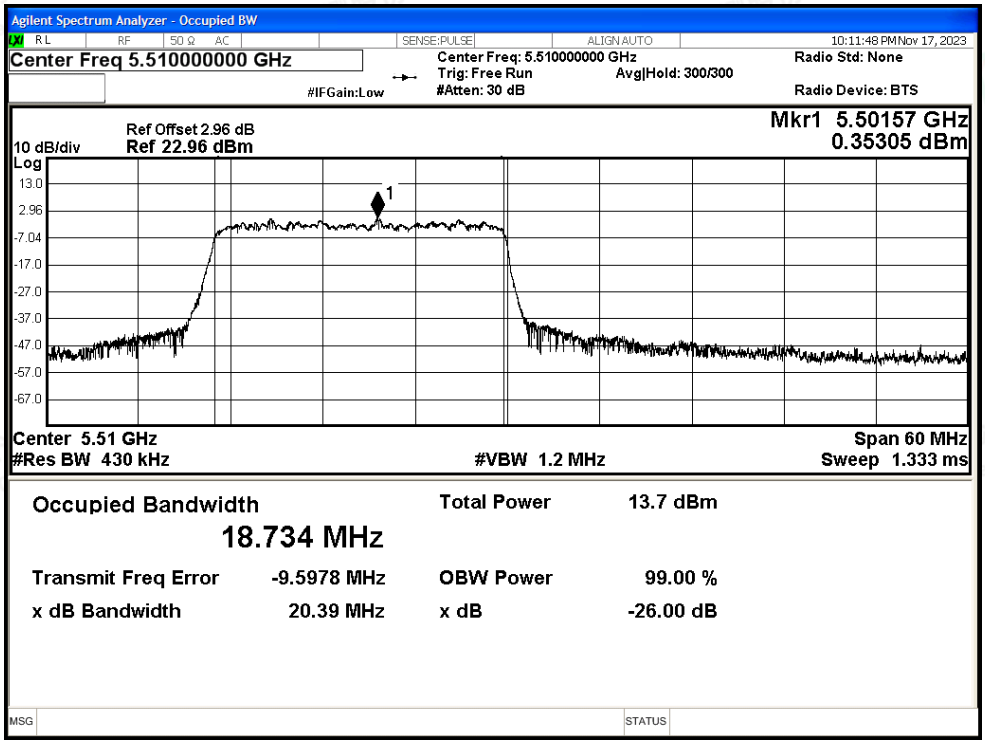
-26dB Bandwidth NVNT ax20 5580MHz Ant1



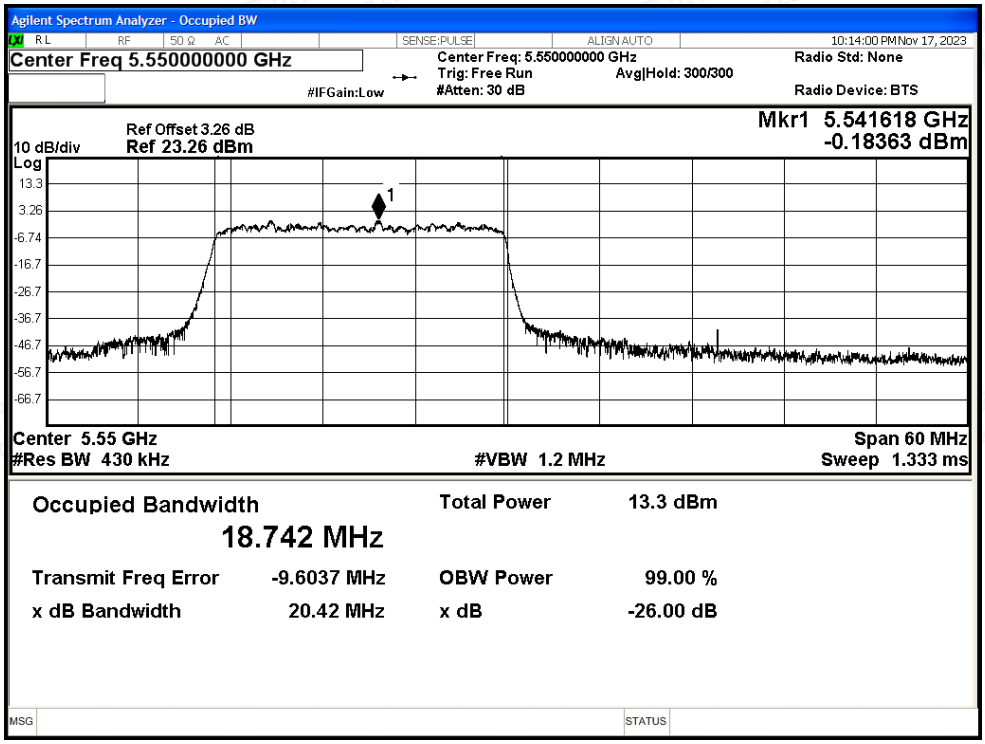
-26dB Bandwidth NVNT ax20 5700MHz Ant1



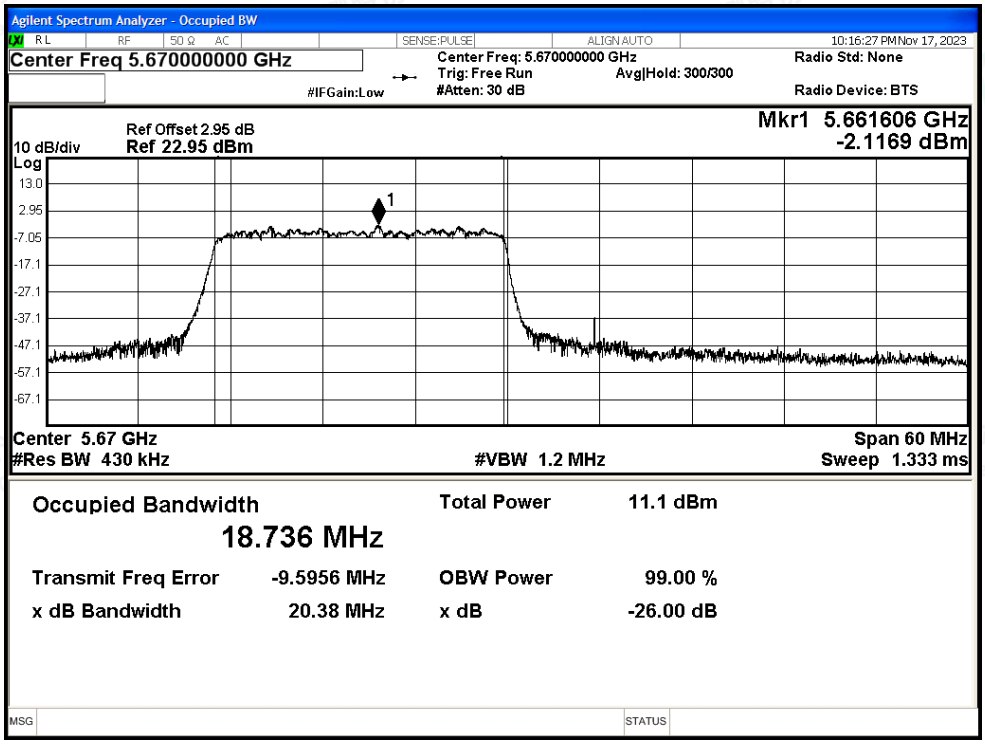
-26dB Bandwidth NVNT ax40 5510MHz Ant1



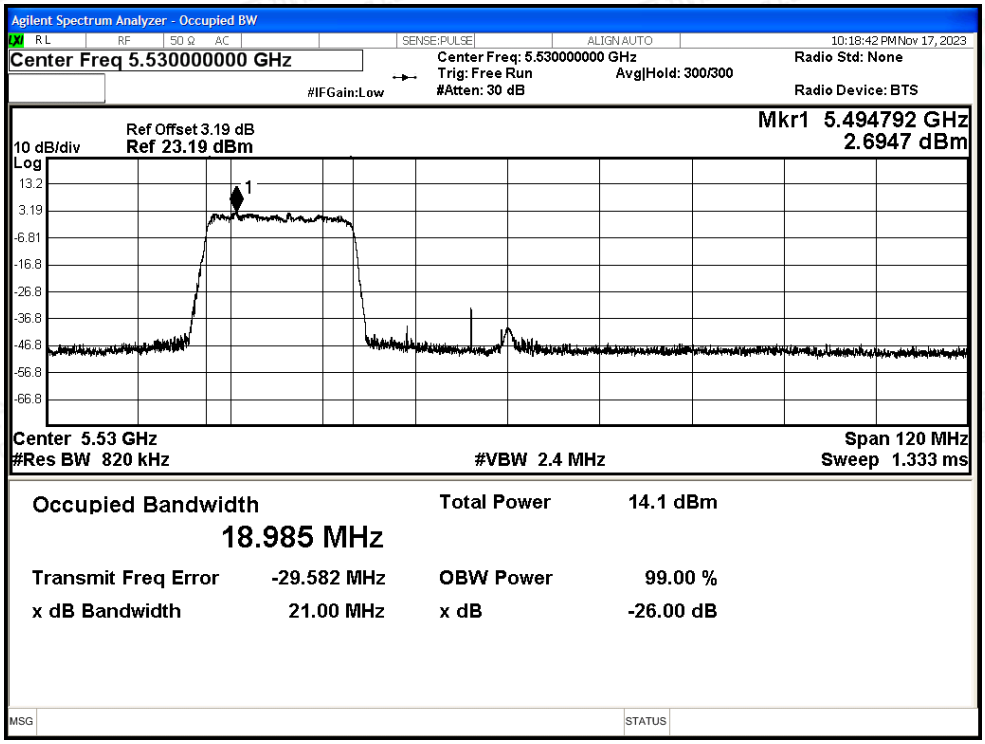
-26dB Bandwidth NVNT ax40 5550MHz Ant1



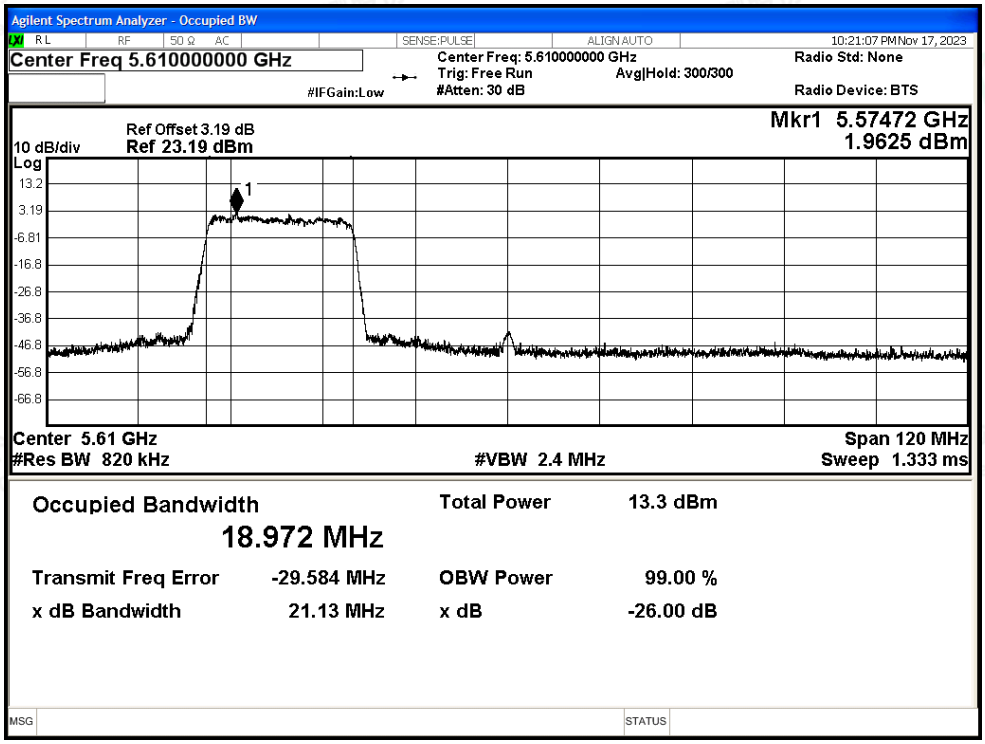
-26dB Bandwidth NVNT ax40 5670MHz Ant1



-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

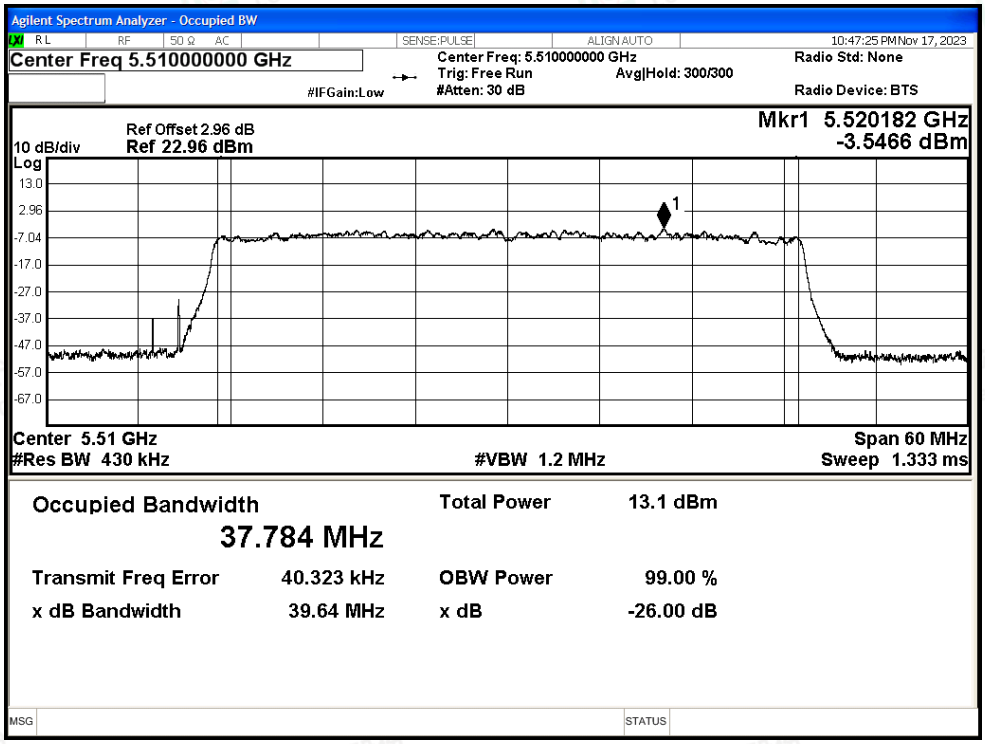


802.11ax OFDMA-(484Tone)

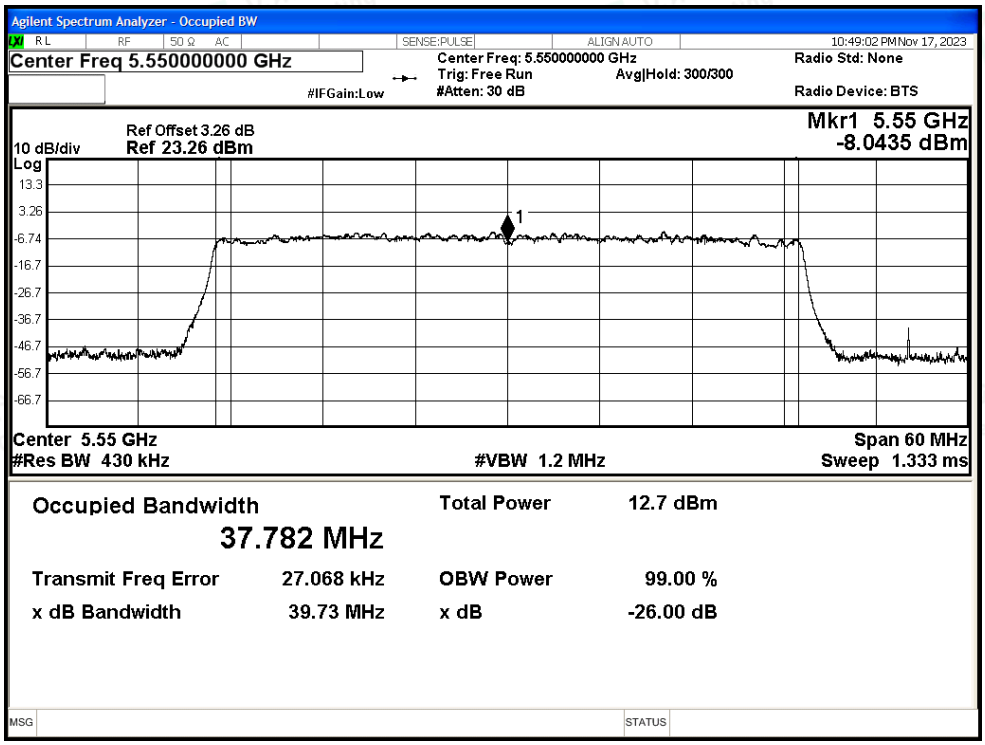
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax40	5510	Ant0	39.64
NVNT	ax40	5550	Ant0	39.73
NVNT	ax40	5670	Ant0	39.67
NVNT	ax80	5530	Ant0	39.96
NVNT	ax80	5610	Ant0	39.79

Test Graphs

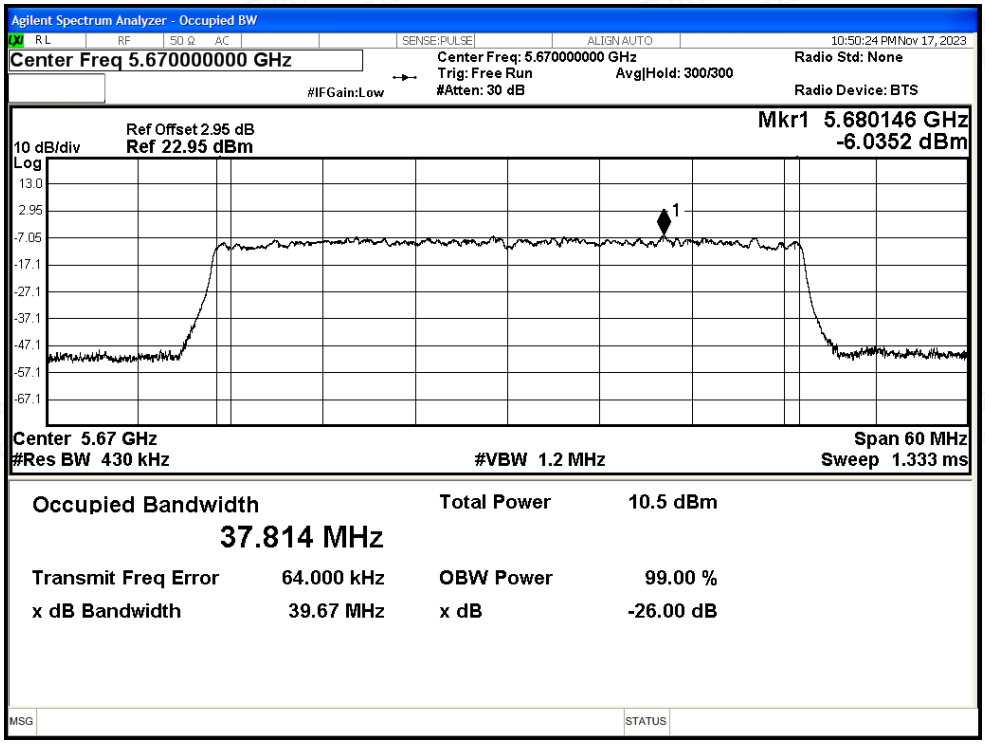
-26dB Bandwidth NVNT ax40 5510MHz Ant0



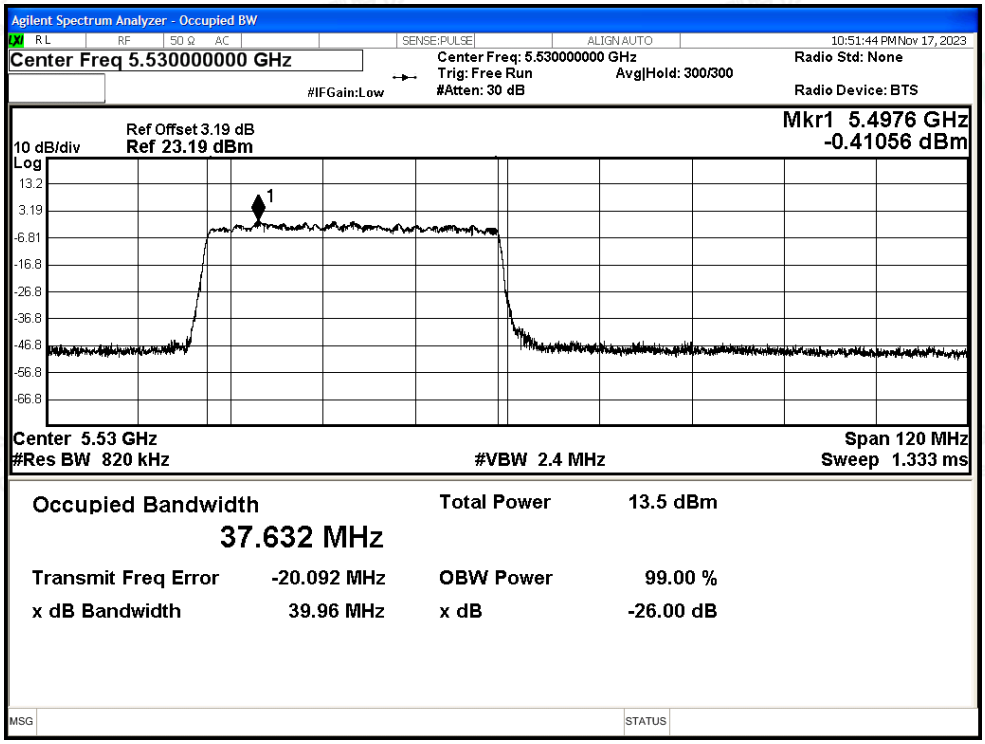
-26dB Bandwidth NVNT ax40 5550MHz Ant0



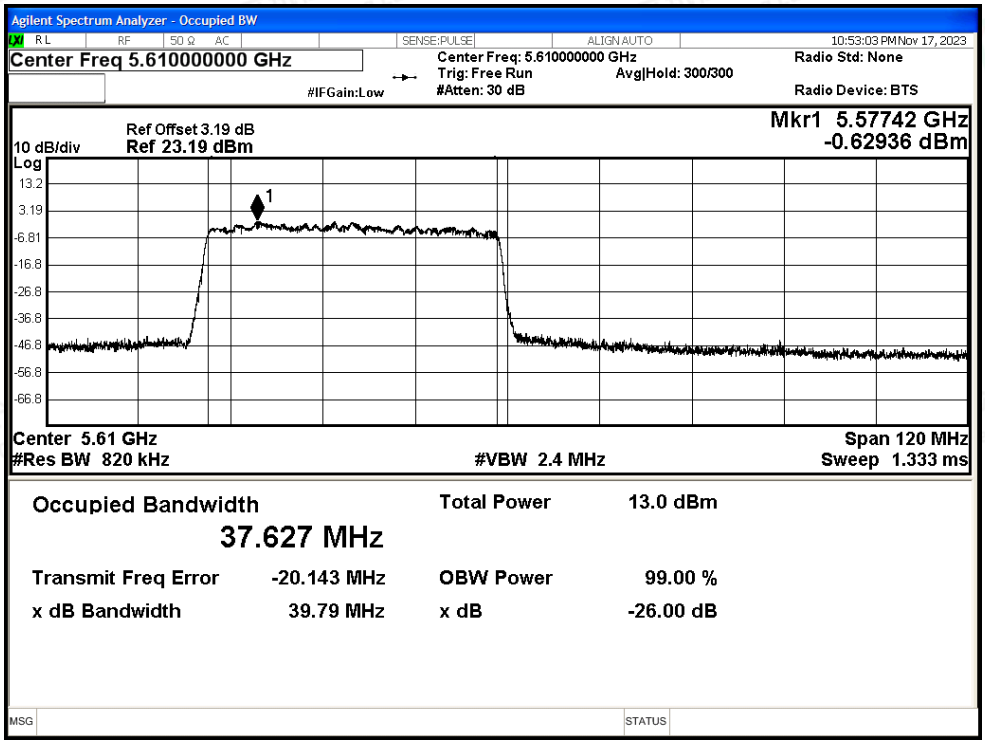
-26dB Bandwidth NVNT ax40 5670MHz Ant0



-26dB Bandwidth NVNT ax80 5530MHz Ant0



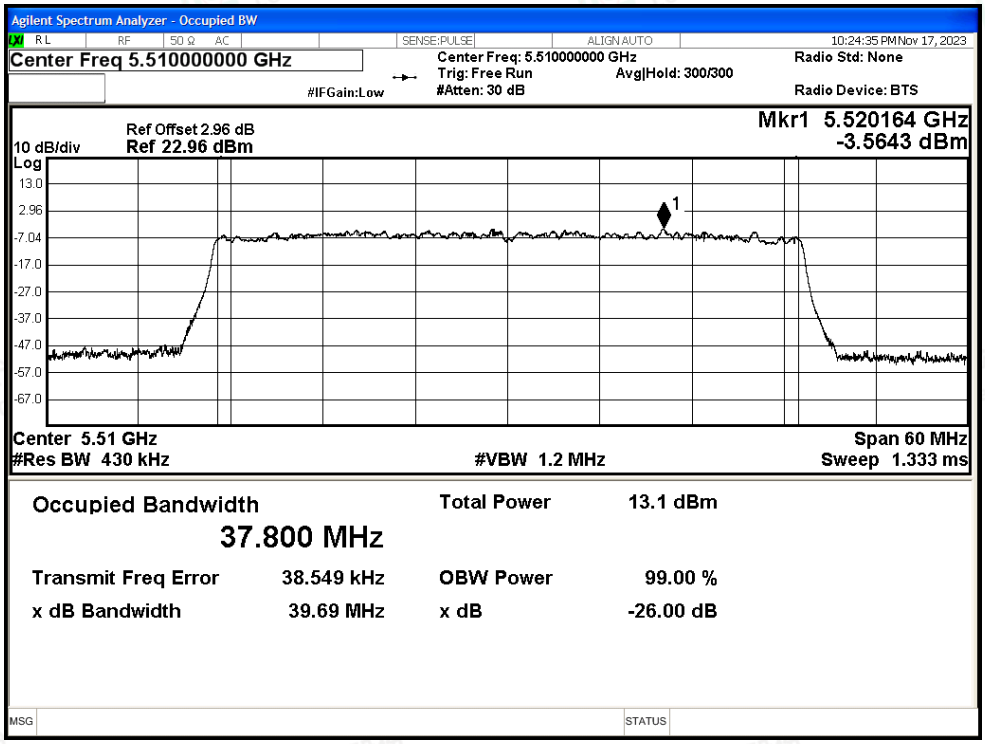
-26dB Bandwidth NVNT ax80 5610MHz Ant0



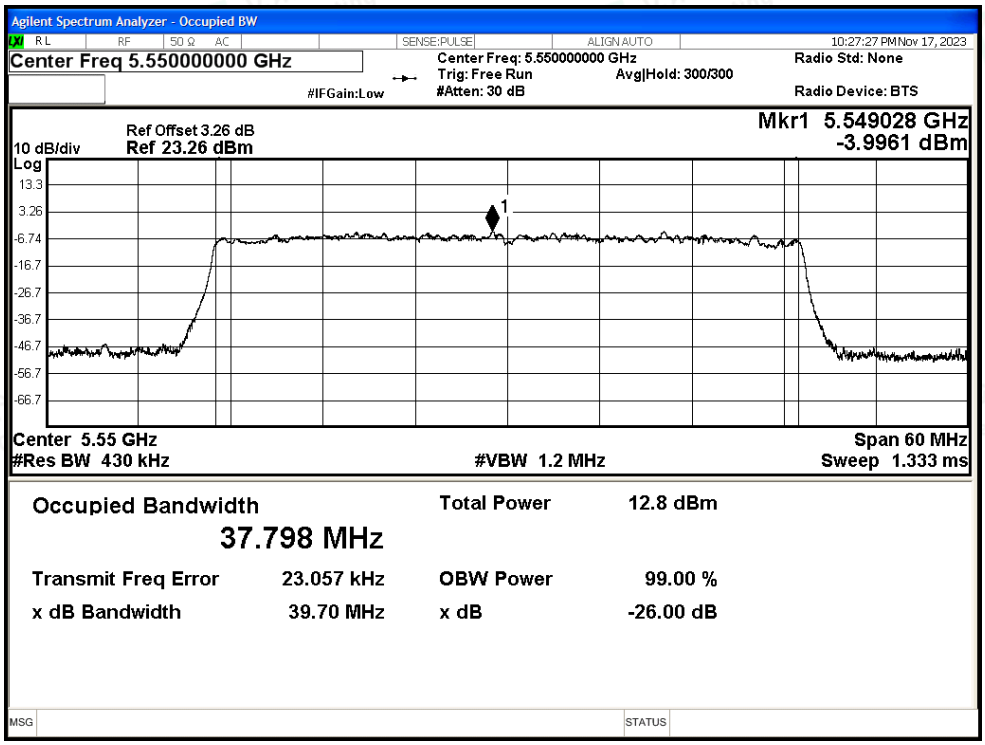
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax40	5510	Ant1	39.69
NVNT	ax40	5550	Ant1	39.70
NVNT	ax40	5670	Ant1	39.66
NVNT	ax80	5530	Ant1	39.95
NVNT	ax80	5610	Ant1	38.86

Test Graphs

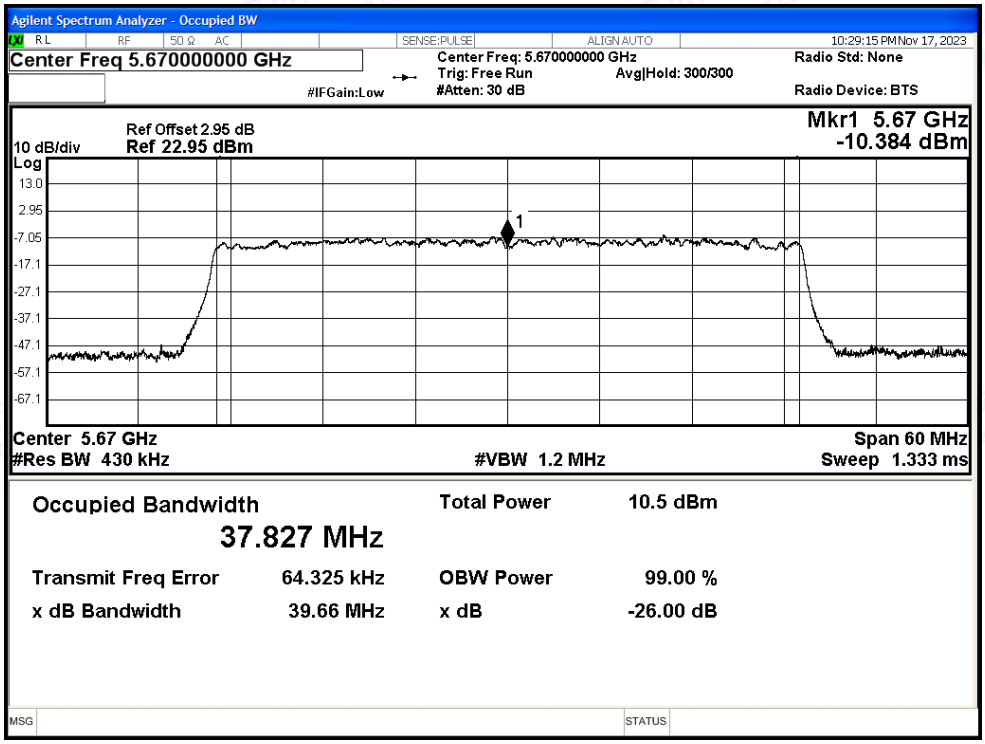
-26dB Bandwidth NVNT ax40 5510MHz Ant1



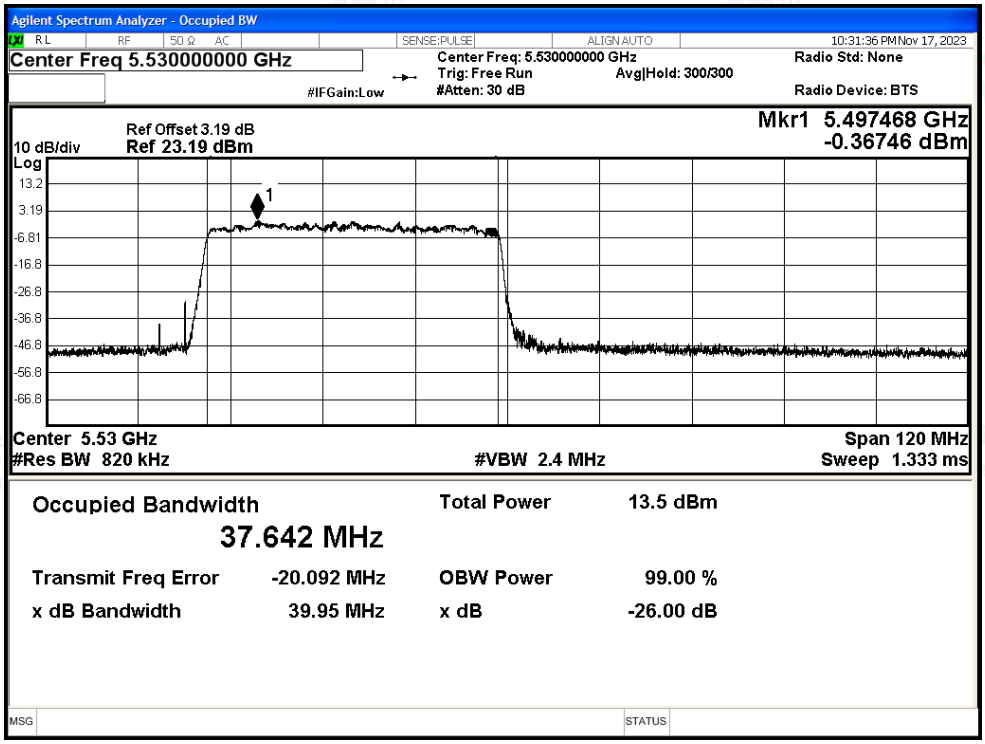
-26dB Bandwidth NVNT ax40 5550MHz Ant1



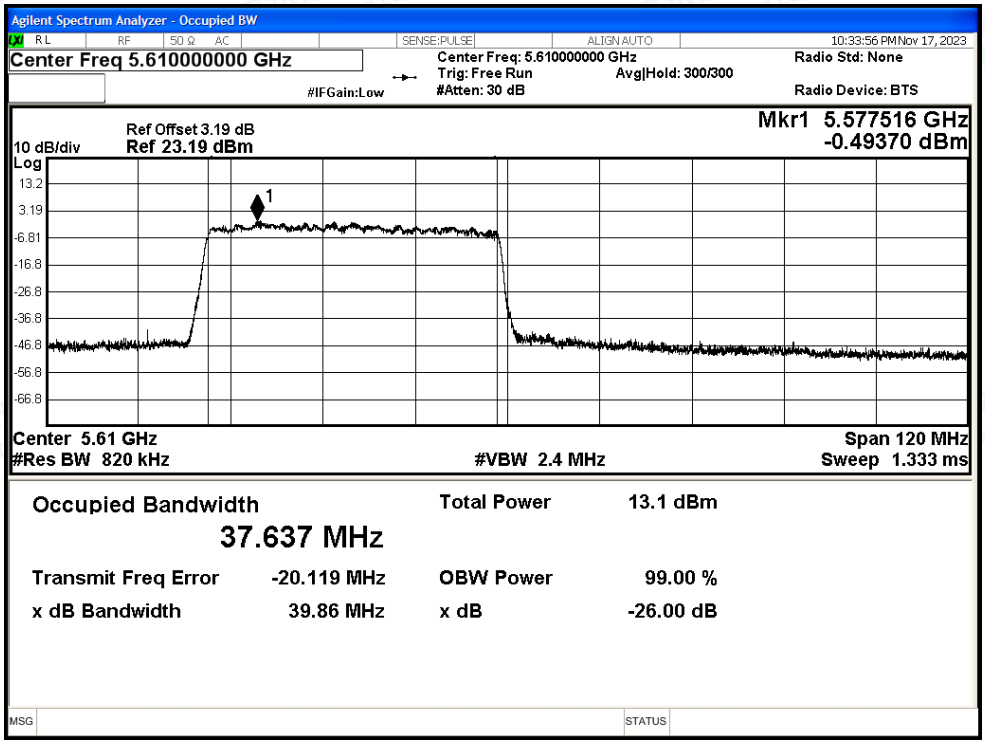
-26dB Bandwidth NVNT ax40 5670MHz Ant1



-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

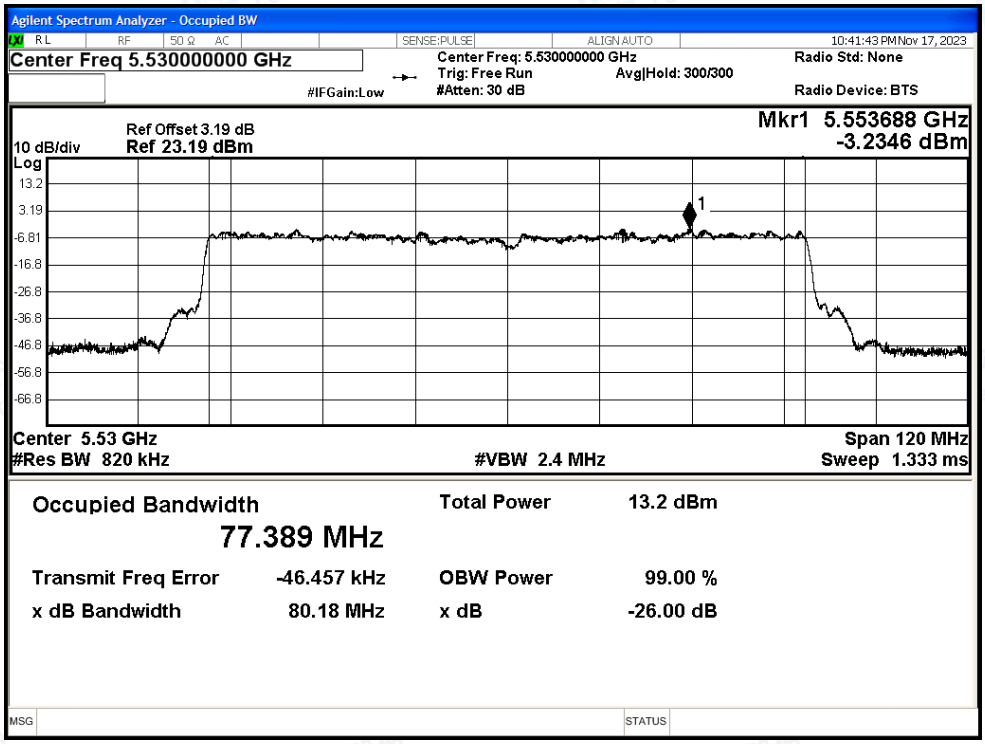


802.11ax OFDMA-(996Tone)

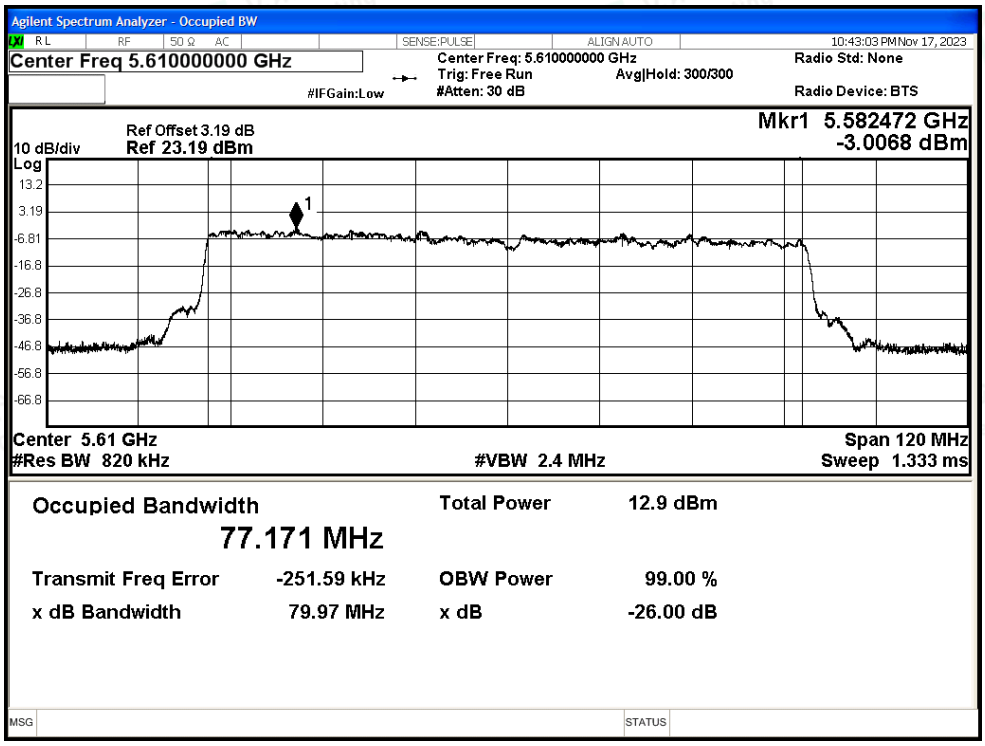
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax80	5530	Ant0	80.18
NVNT	ax80	5610	Ant0	79.97

Test Graphs

-26dB Bandwidth NVNT ax80 5530MHz Ant0



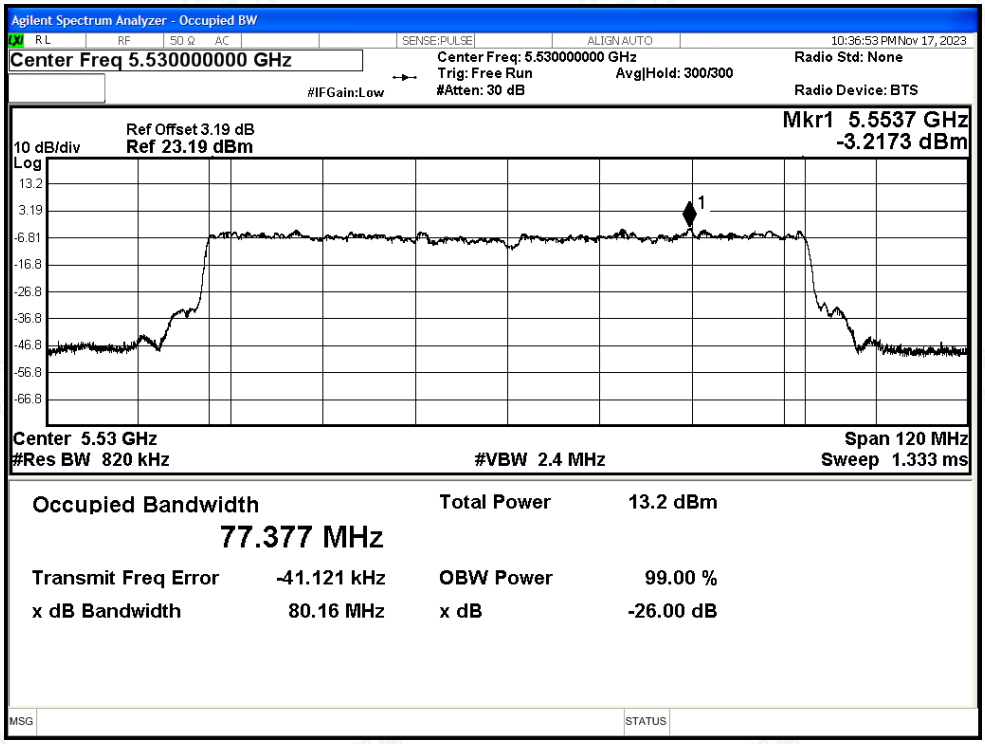
-26dB Bandwidth NVNT ax80 5610MHz Ant0



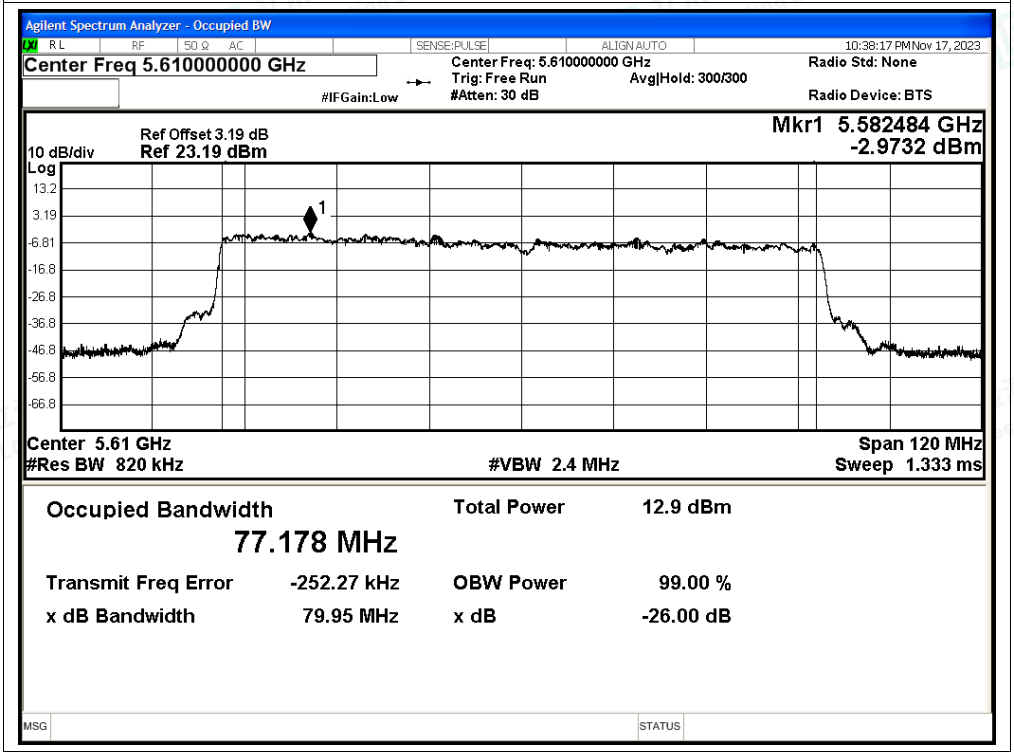
Condition	Mode	Frequency (MHz)	Antenna	-26dB Bandwidth (MHz)
NVNT	ax80	5530	Ant1	80.16
NVNT	ax80	5610	Ant1	79.95

Test Graphs

-26dB Bandwidth NVNT ax80 5530MHz Ant1



-26dB Bandwidth NVNT ax80 5610MHz Ant1

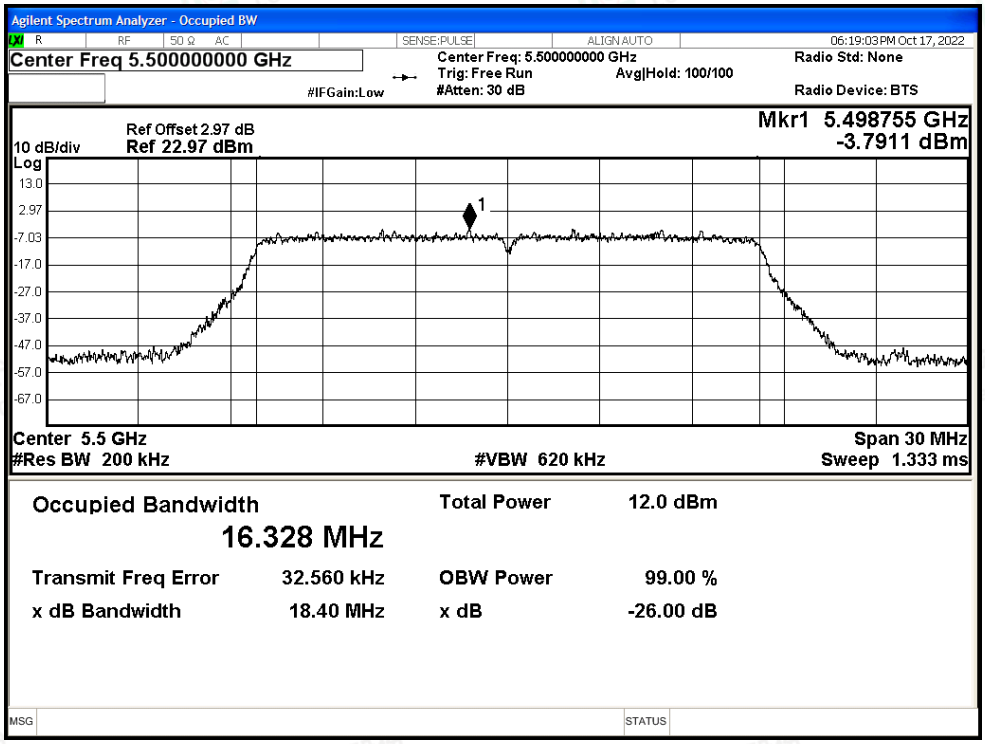
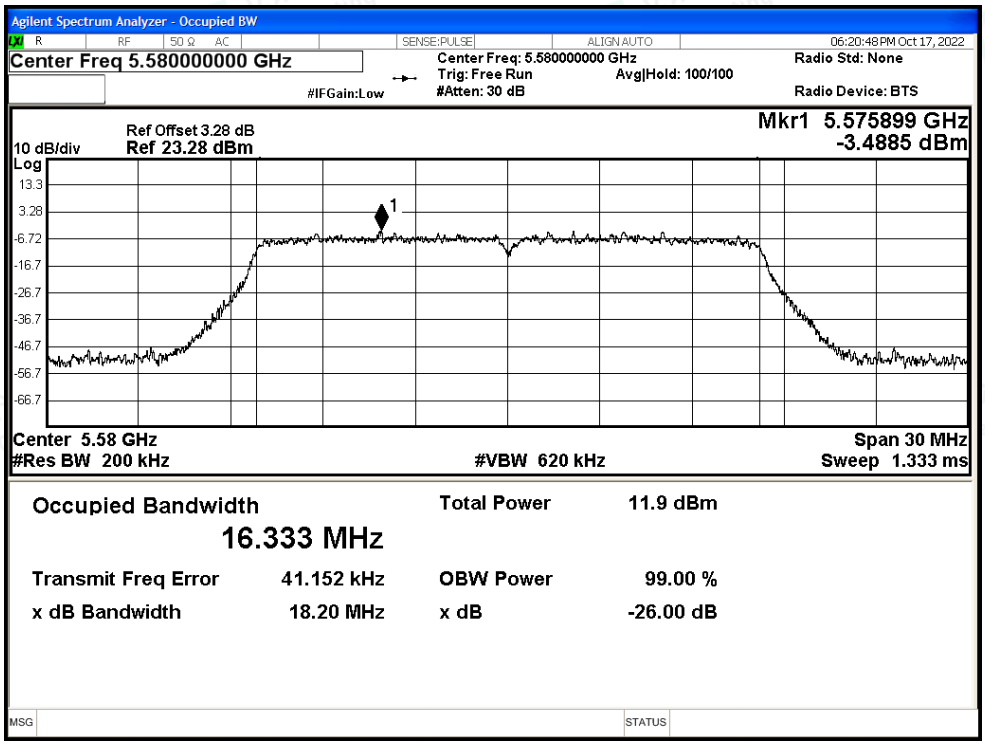


B.2 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant0	16.328
NVNT	a	5580	Ant0	16.333
NVNT	a	5700	Ant0	16.326
NVNT	n20	5500	Ant0	16.325
NVNT	n20	5580	Ant0	16.338
NVNT	n20	5700	Ant0	16.323
NVNT	n40	5510	Ant0	36.007
NVNT	n40	5550	Ant0	36.034
NVNT	n40	5670	Ant0	35.981
NVNT	ac20	5500	Ant0	16.307
NVNT	ac20	5580	Ant0	16.314
NVNT	ac20	5700	Ant0	16.45
NVNT	ac40	5510	Ant0	36.052
NVNT	ac40	5550	Ant0	36.049
NVNT	ac40	5670	Ant0	36.018
NVNT	ac80	5530	Ant0	76.119
NVNT	ac80	5610	Ant0	76.144
NVNT	ax20	5500	Ant0	18.882
NVNT	ax20	5580	Ant0	18.841
NVNT	ax20	5700	Ant0	18.872
NVNT	ax40	5510	Ant0	37.645
NVNT	ax40	5550	Ant0	37.663
NVNT	ax40	5670	Ant0	37.66
NVNT	ax80	5530	Ant0	77.278
NVNT	ax80	5610	Ant0	77.275

Test Graphs

OBW NVNT a 5500MHz Ant0



OBW NVNT a 5580MHz Ant0