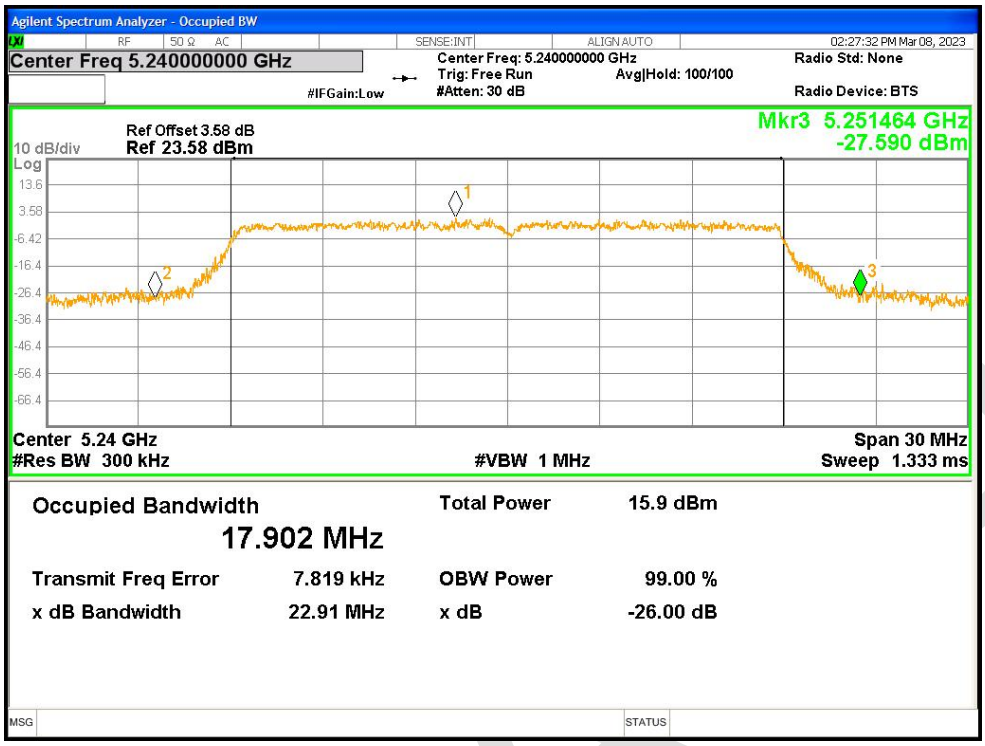
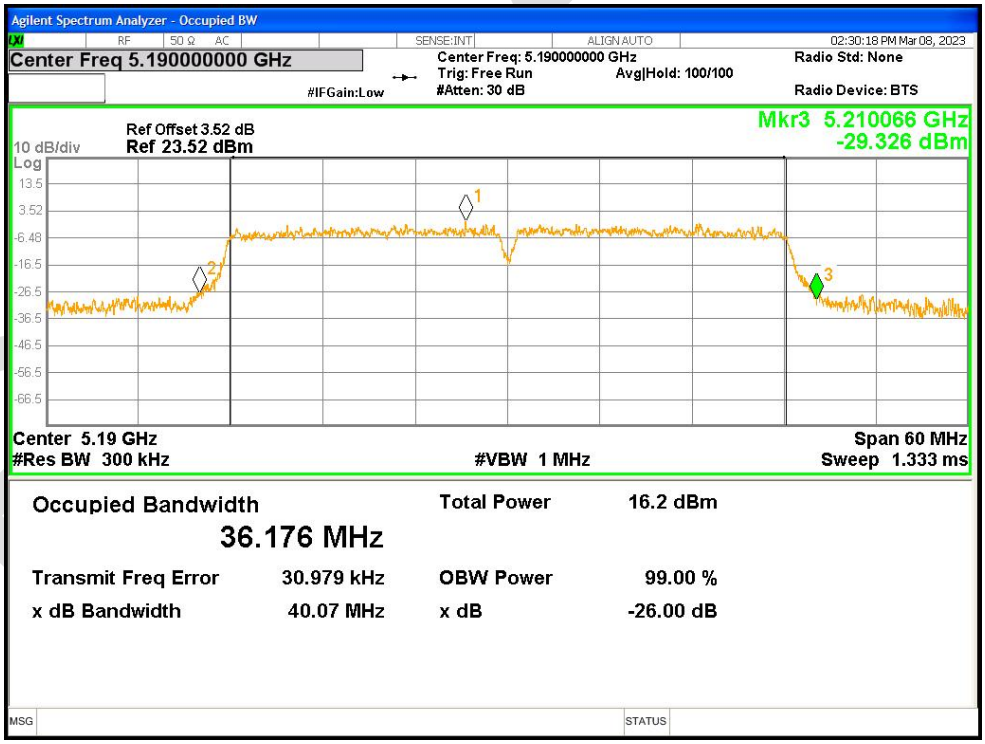
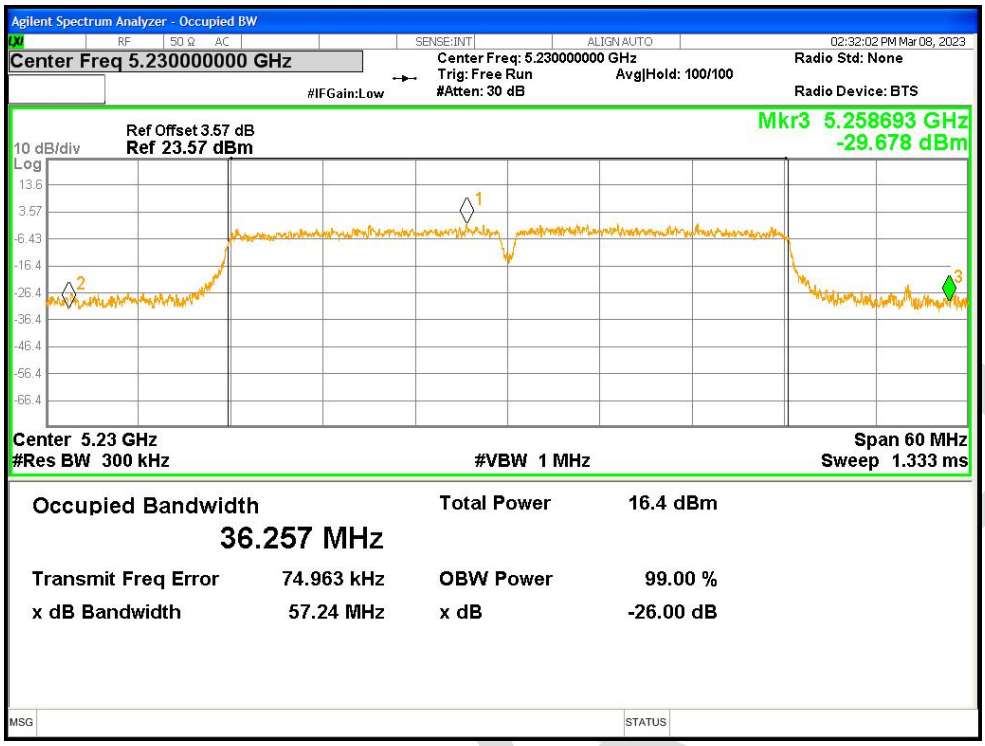


-26dB Bandwidth NVNT n40 5190MHz Ant1



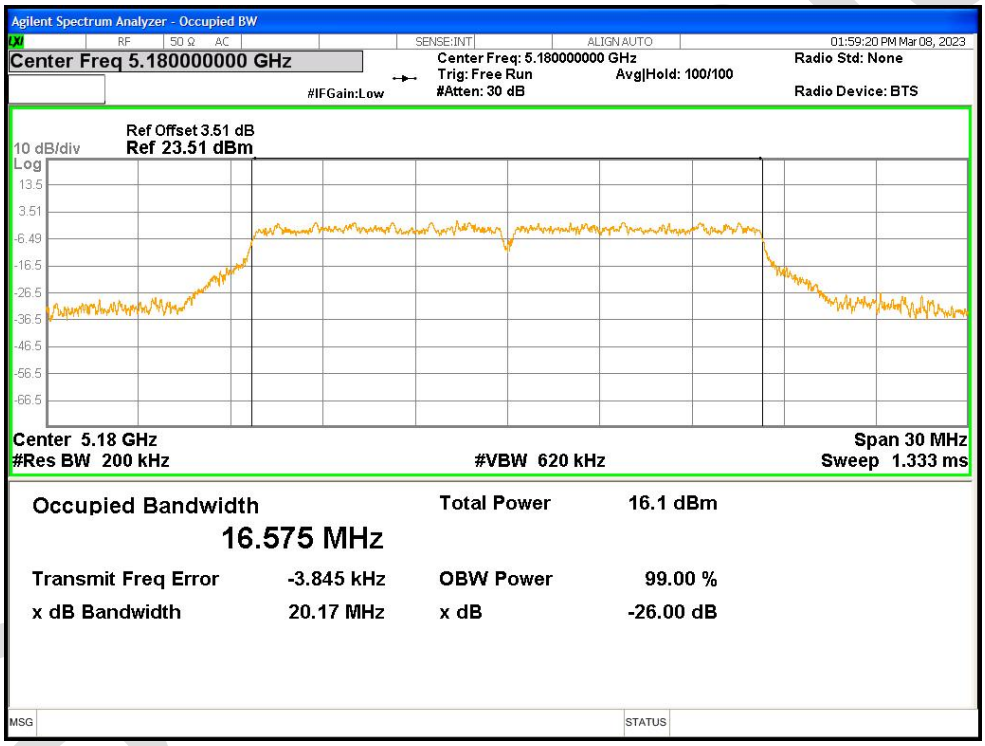
-26dB Bandwidth NVNT n40 5230MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
02:32:02 PM Mar 08, 2023
Center Freq 5.230000000 GHz
Center Freq: 5.230000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 3.57 dB
10 dB/div
Ref 23.57 dBm
Log
Mkr3 5.258693 GHz
-29.678 dBm
13.6
3.57
-6.43
-16.4
-26.4
-36.4
-46.4
-56.4
-66.4
Center 5.23 GHz
#Res BW 300 kHz
#VBW 1 MHz
Span 60 MHz
Sweep 1.333 ms
Occupied Bandwidth
36.257 MHz
Total Power 16.4 dBm
Transmit Freq Error 74.963 kHz
OBW Power 99.00 %
x dB Bandwidth 57.24 MHz
x dB -26.00 dB
MSG
STATUS

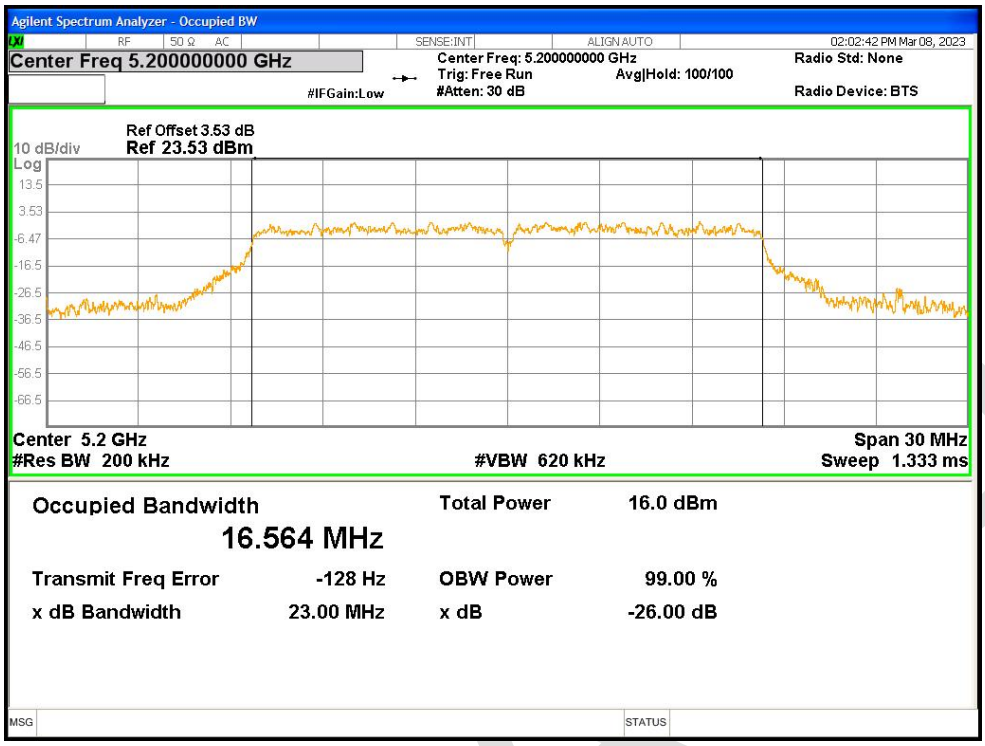
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.575
NVNT	a	5200	Ant1	16.564
NVNT	a	5240	Ant1	16.579
NVNT	n20	5180	Ant1	17.728
NVNT	n20	5200	Ant1	17.748
NVNT	n20	5240	Ant1	17.774
NVNT	n40	5190	Ant1	36.256
NVNT	n40	5230	Ant1	36.379

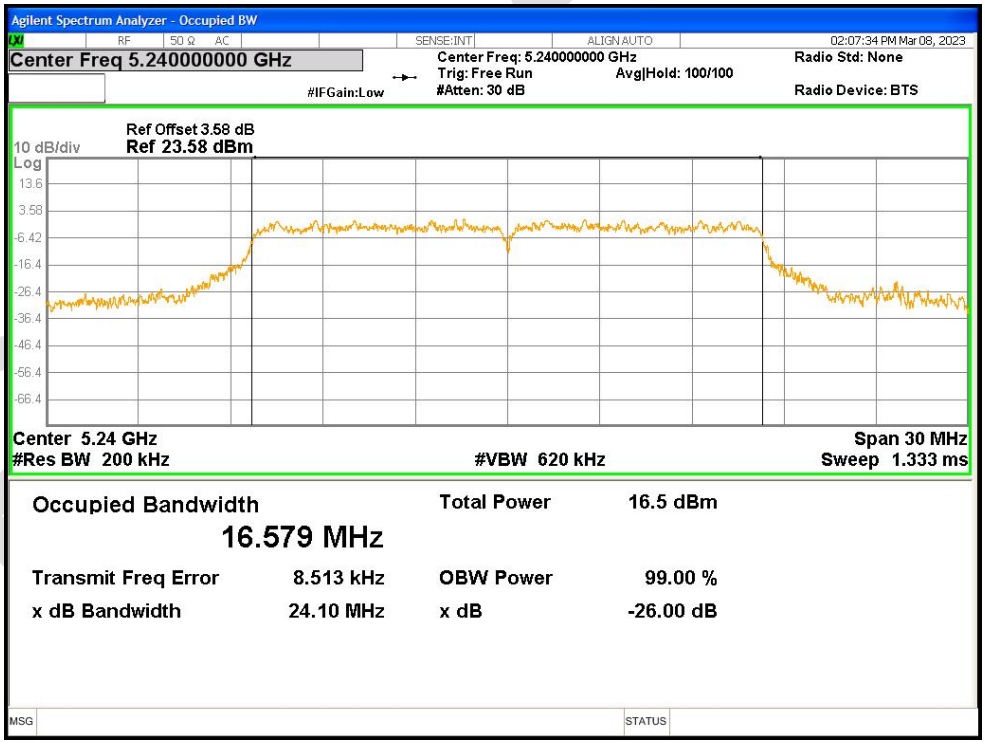
OBW NVNT a 5180MHz Ant1



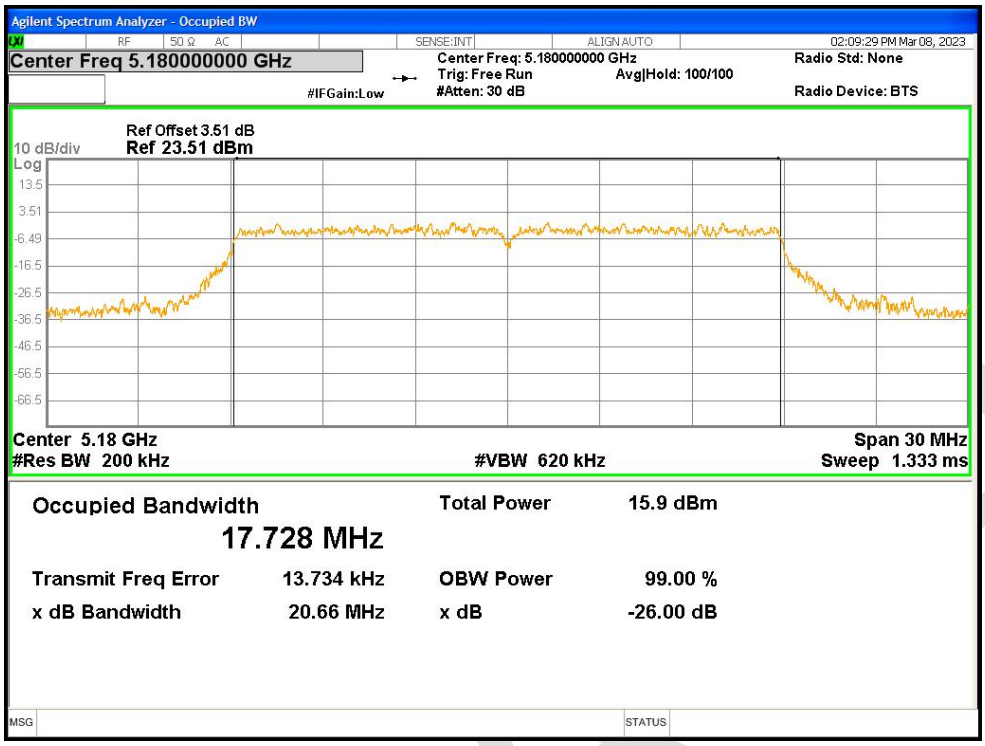
OBW NVNT a 5200MHz Ant1



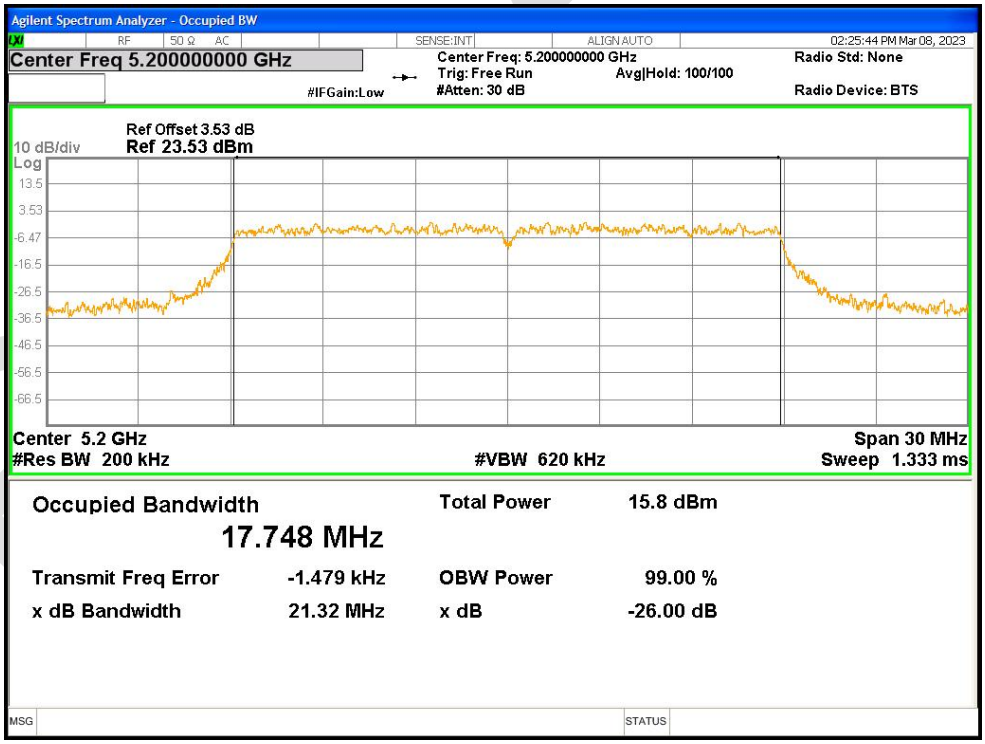
OBW NVNT a 5240MHz Ant1



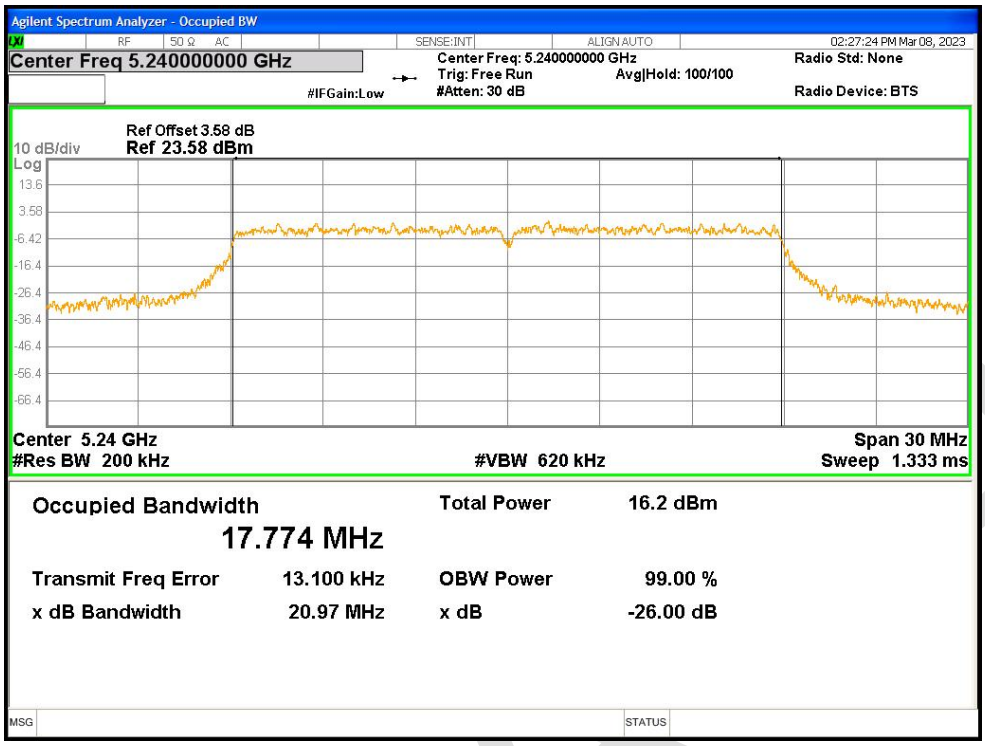
OBW NVNT n20 5180MHz Ant1



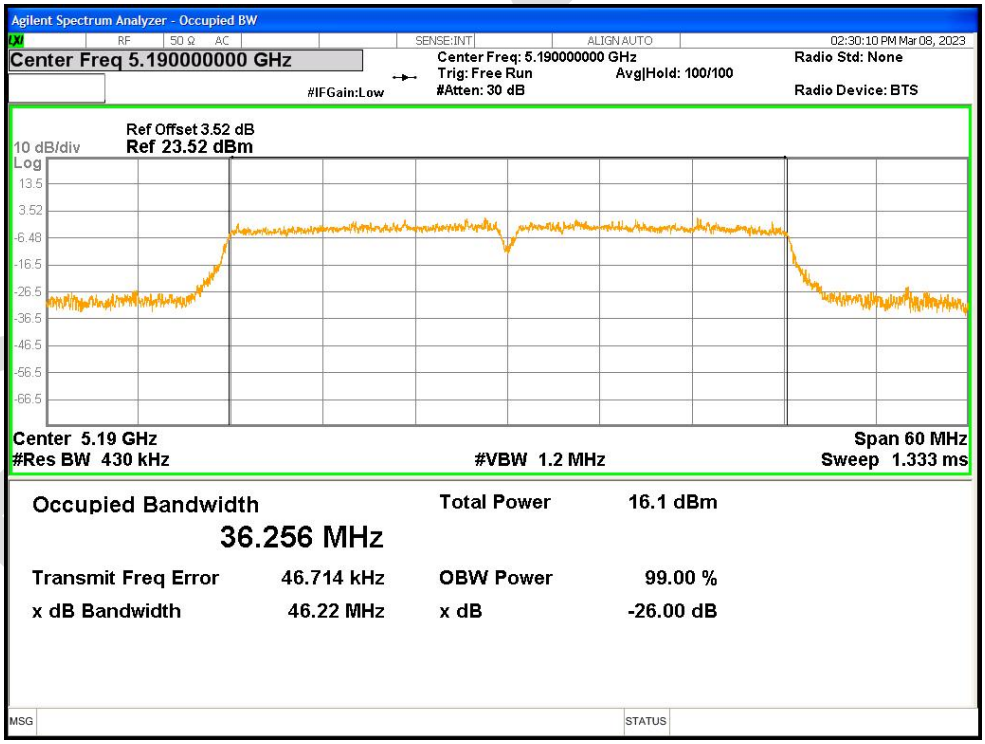
OBW NVNT n20 5200MHz Ant1



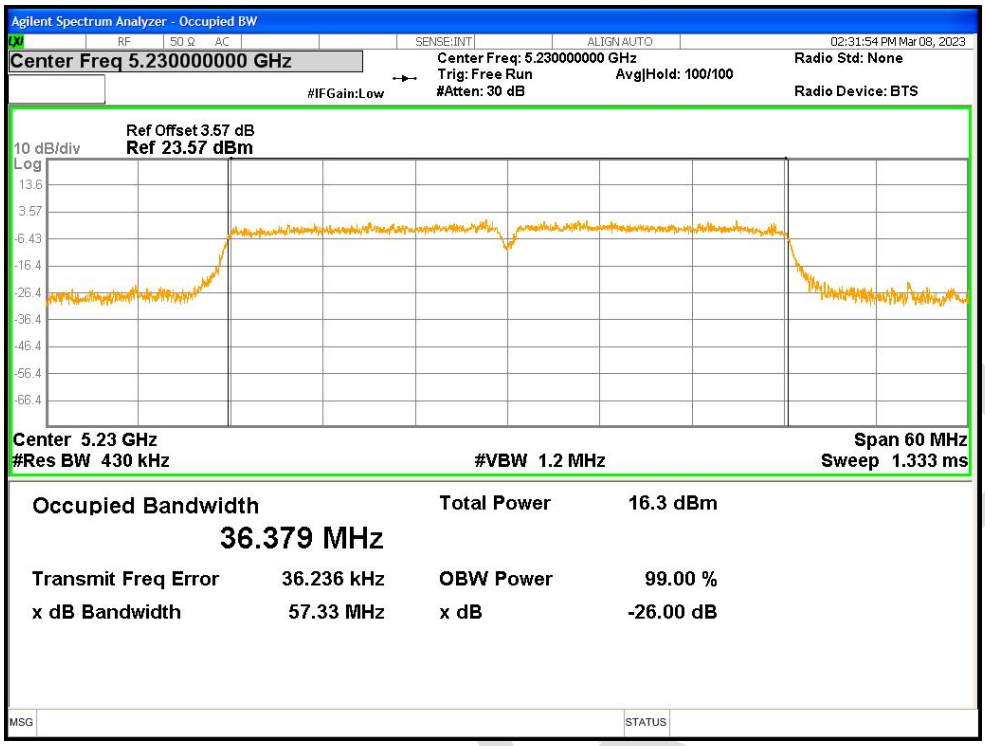
OBW NVNT n20 5240MHz Ant1



OBW NVNT n40 5190MHz Ant1



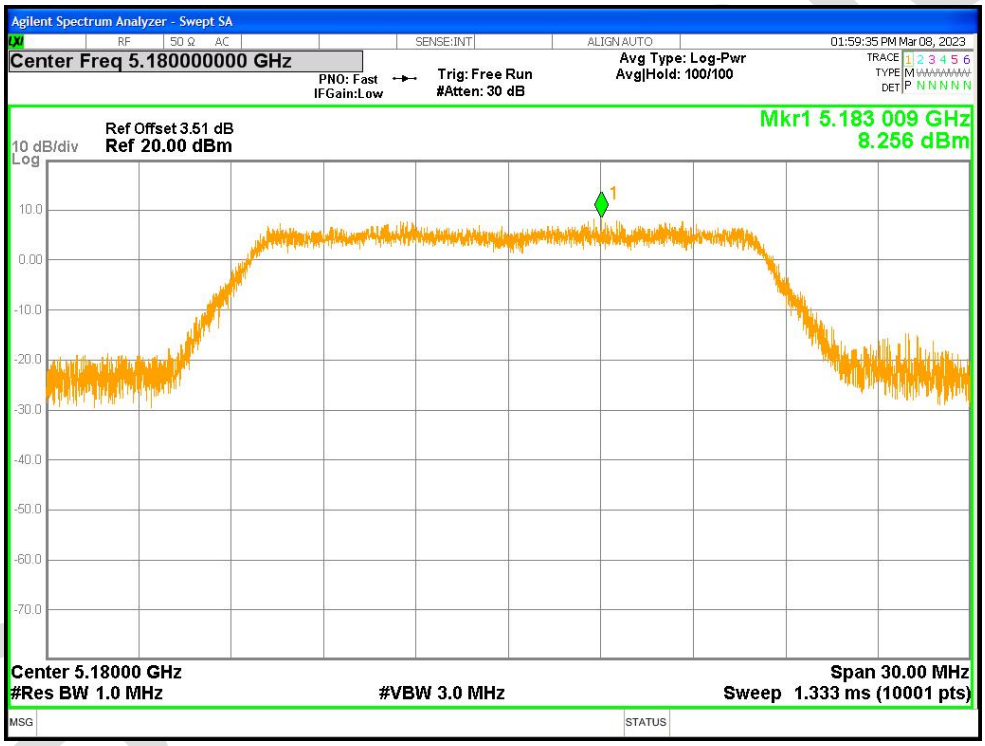
OBW NVNT n40 5230MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
02:31:54 PM Mar 08, 2023
Center Freq 5.230000000 GHz
Center Freq: 5.230000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
Ref Offset 3.57 dB
10 dB/div
Ref 23.57 dBm
Log
13.6
3.57
-6.43
-16.4
-26.4
-36.4
-46.4
-56.4
-66.4
Center 5.23 GHz
#Res BW 430 kHz
#VBW 1.2 MHz
Span 60 MHz
Sweep 1.333 ms
Occupied Bandwidth
36.379 MHz
Total Power 16.3 dBm
Transmit Freq Error 36.236 kHz
OBW Power 99.00 %
x dB Bandwidth 57.33 MHz
x dB -26.00 dB
MSG
STATUS

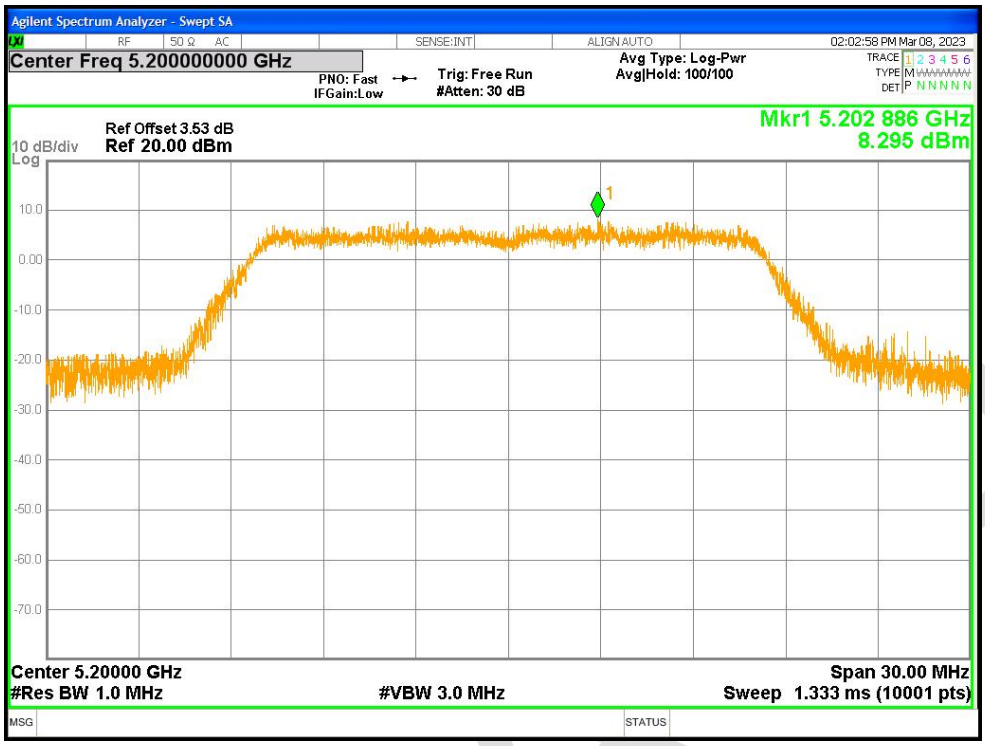
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	8.256	11	Pass
NVNT	a	5200	Ant1	8.295	11	Pass
NVNT	a	5240	Ant1	8.535	11	Pass
NVNT	n20	5180	Ant1	6.86	11	Pass
NVNT	n20	5200	Ant1	6.969	11	Pass
NVNT	n20	5240	Ant1	7.261	11	Pass
NVNT	n40	5190	Ant1	4.257	11	Pass
NVNT	n40	5230	Ant1	4.401	11	Pass

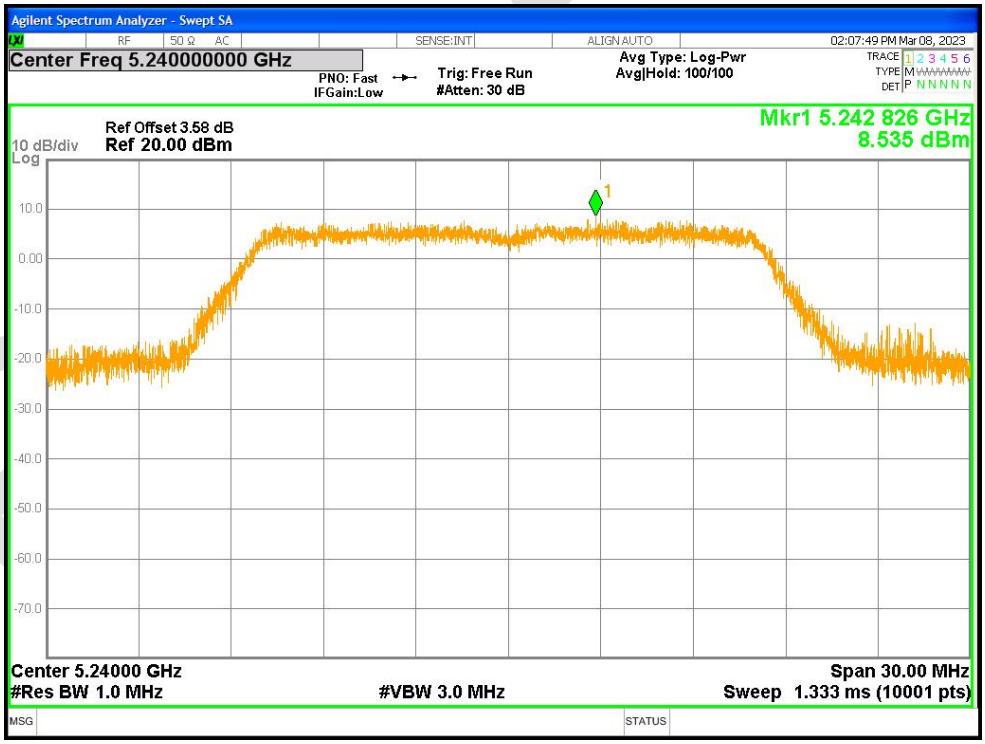
PSD NVNT a 5180MHz Ant1



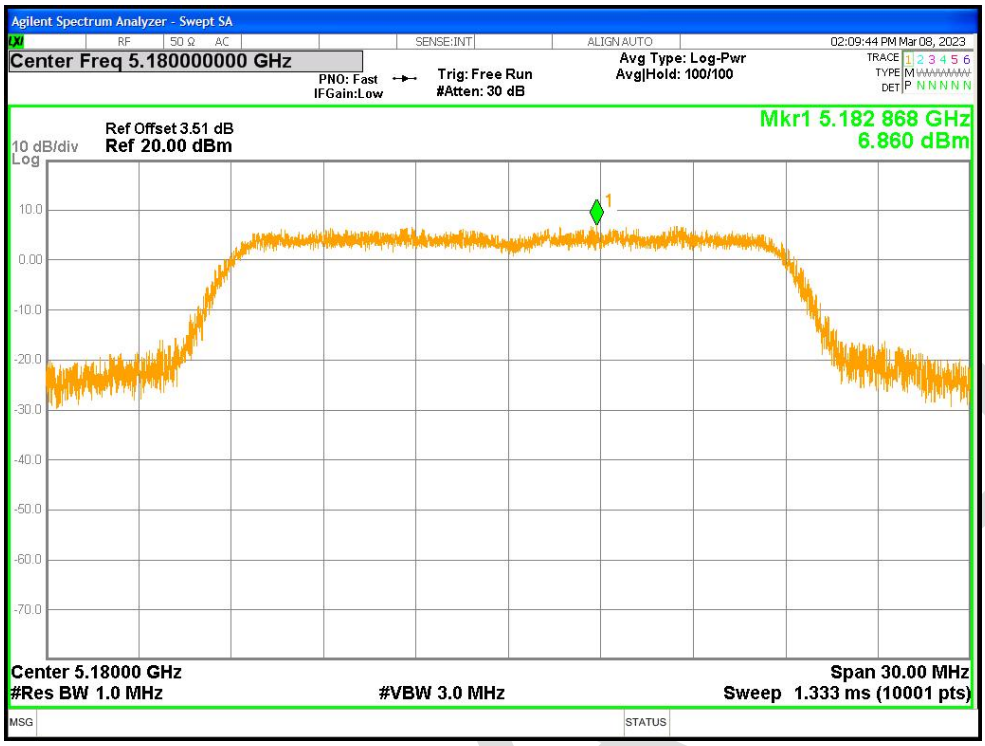
PSD NVNT a 5200MHz Ant1



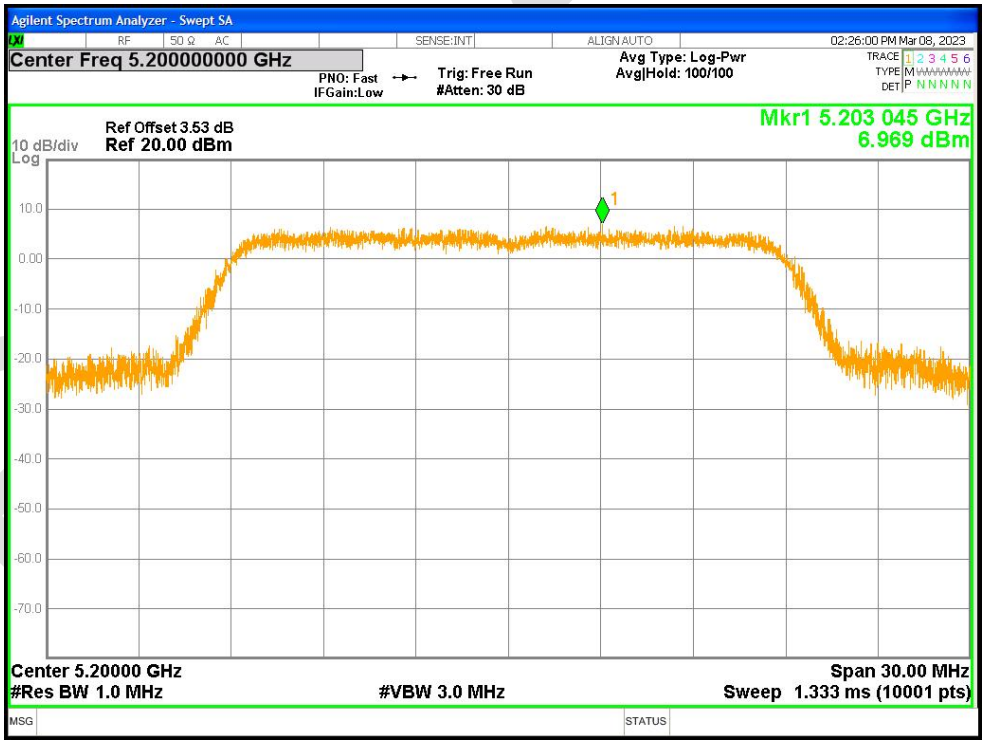
PSD NVNT a 5240MHz Ant1



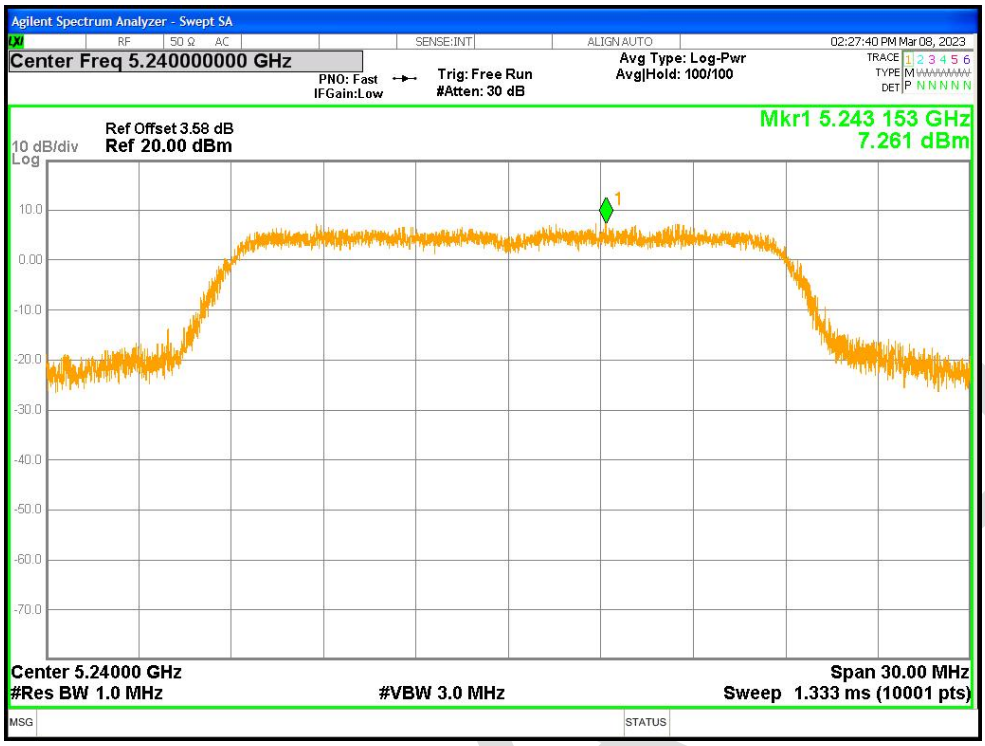
PSD NVNT n20 5180MHz Ant1



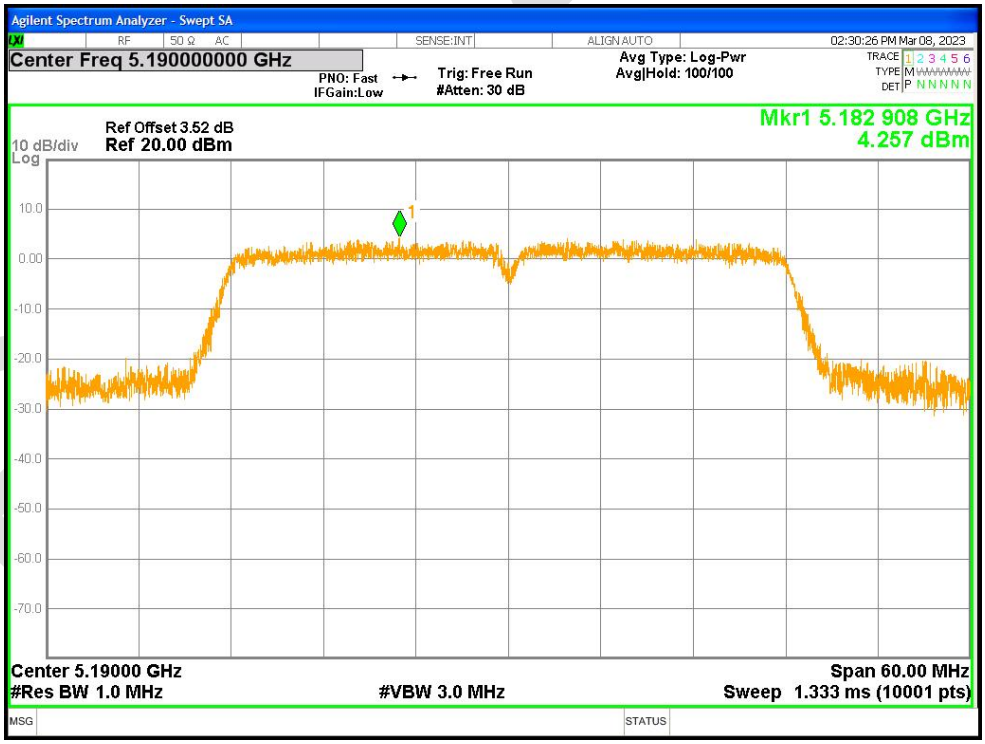
PSD NVNT n20 5200MHz Ant1



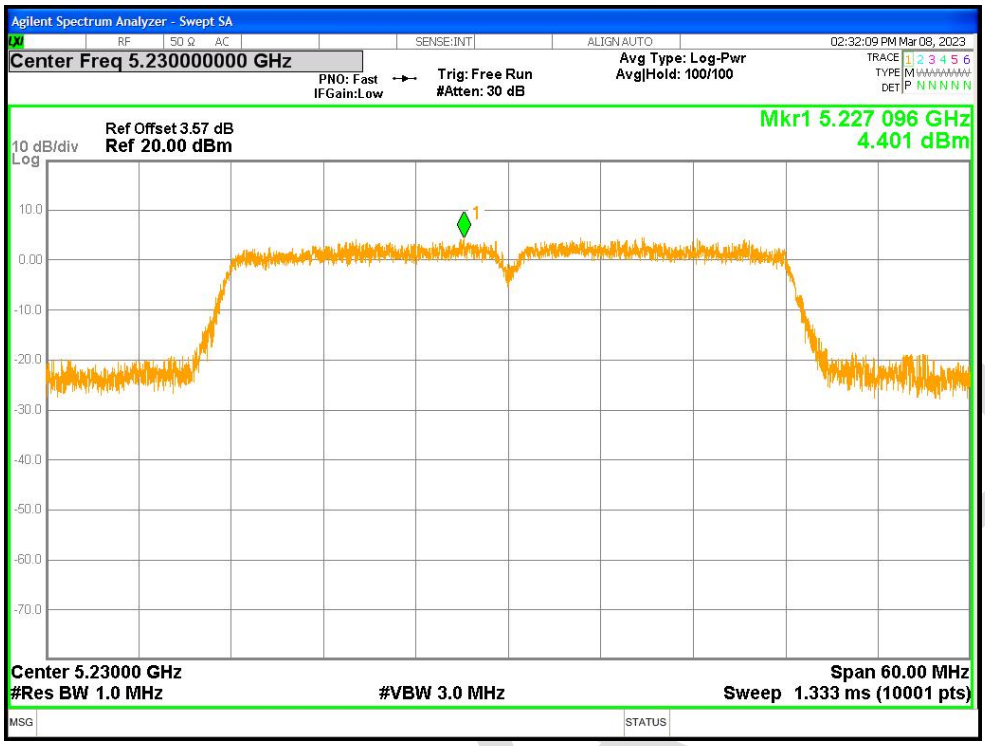
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



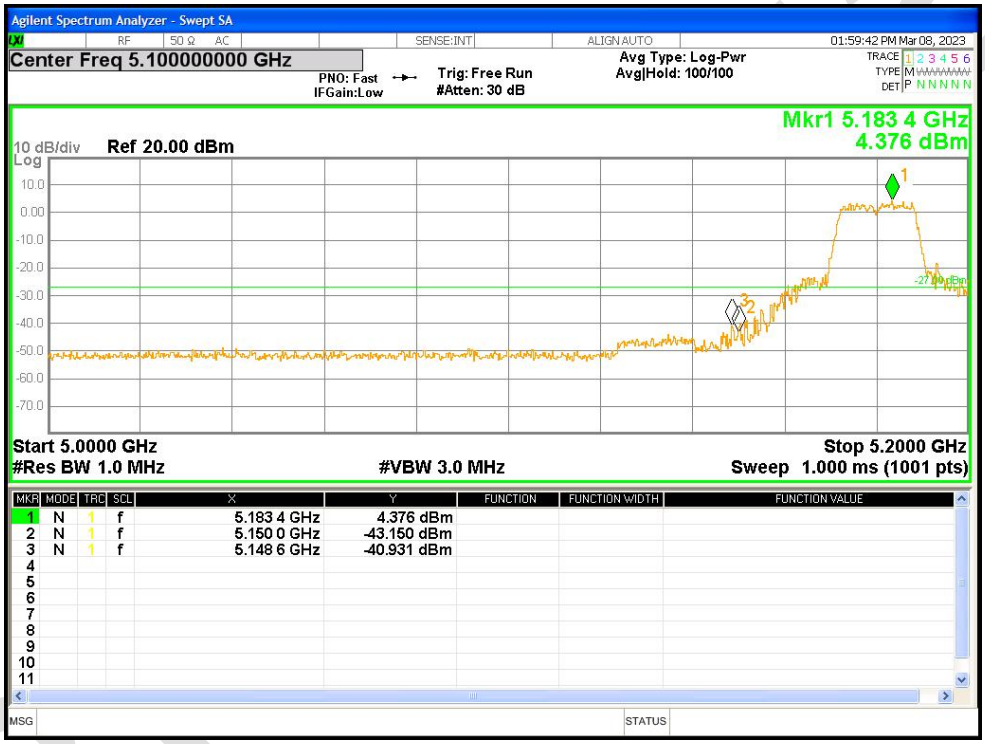
PSD NVNT n40 5230MHz Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.230000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
02:32:09 PM Mar 08, 2023
Ref Offset 3.57 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 5.227 096 GHz
4.401 dBm
Center 5.23000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 60.00 MHz
Sweep 1.333 ms (10001 pts)

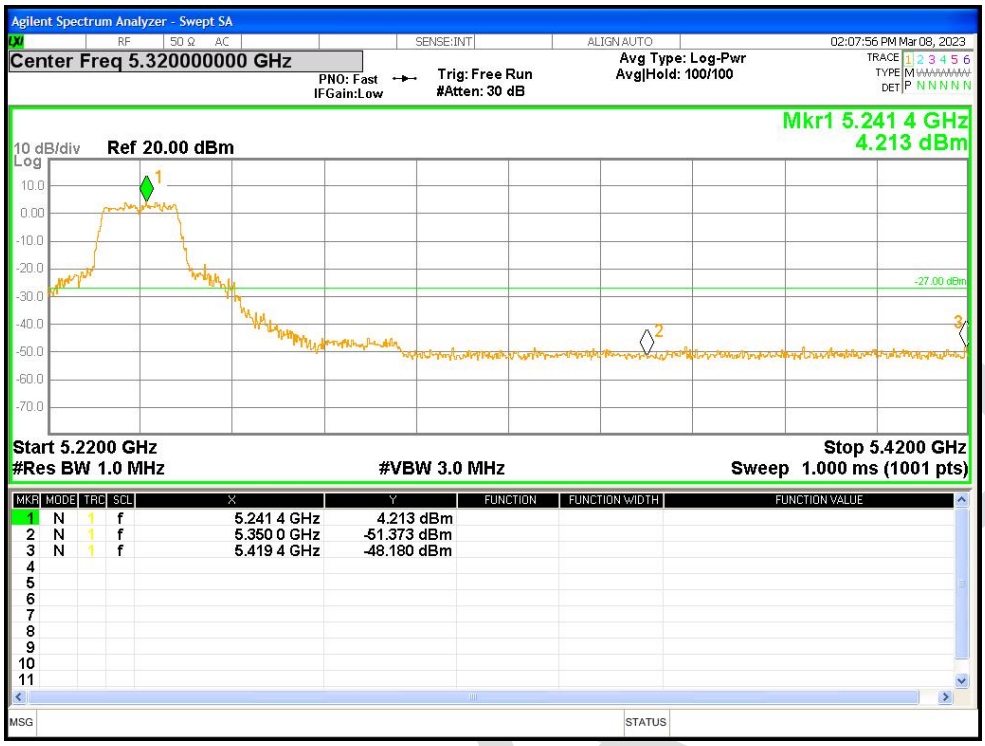
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-40.93	-27	Pass
NVNT	a	5240	Ant1	-48.17	-27	Pass
NVNT	n20	5180	Ant1	-42.07	-27	Pass
NVNT	n20	5240	Ant1	-48.21	-27	Pass
NVNT	n40	5190	Ant1	-28.49	-27	Pass
NVNT	n40	5230	Ant1	-48.2	-27	Pass

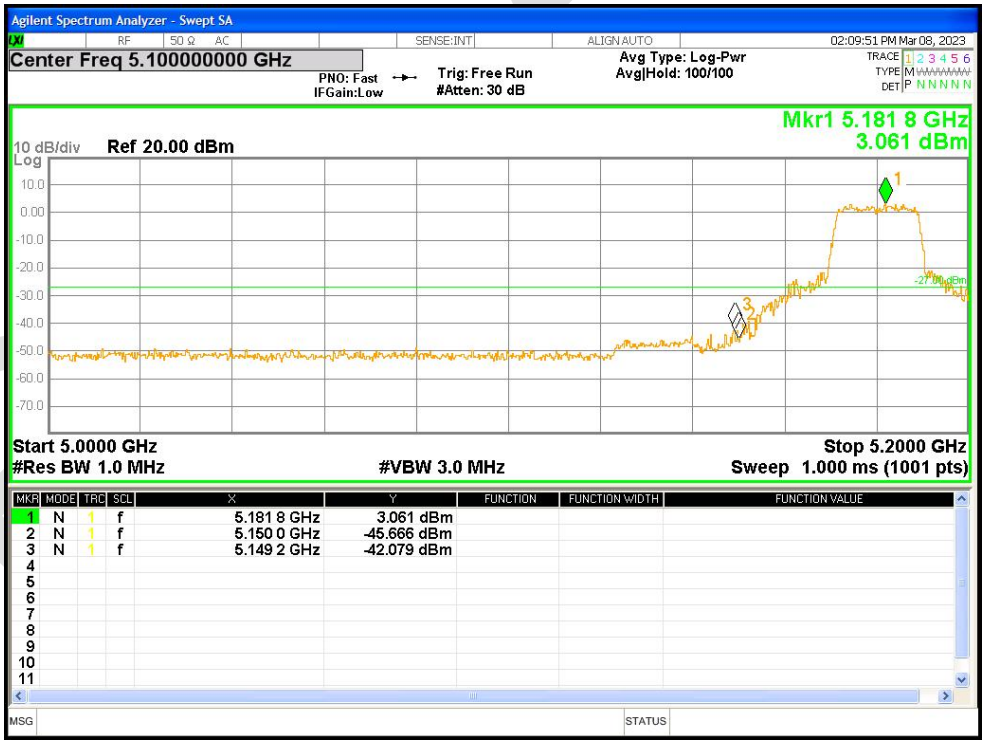
Band Edge NVNT a 5180MHz Low Ant1



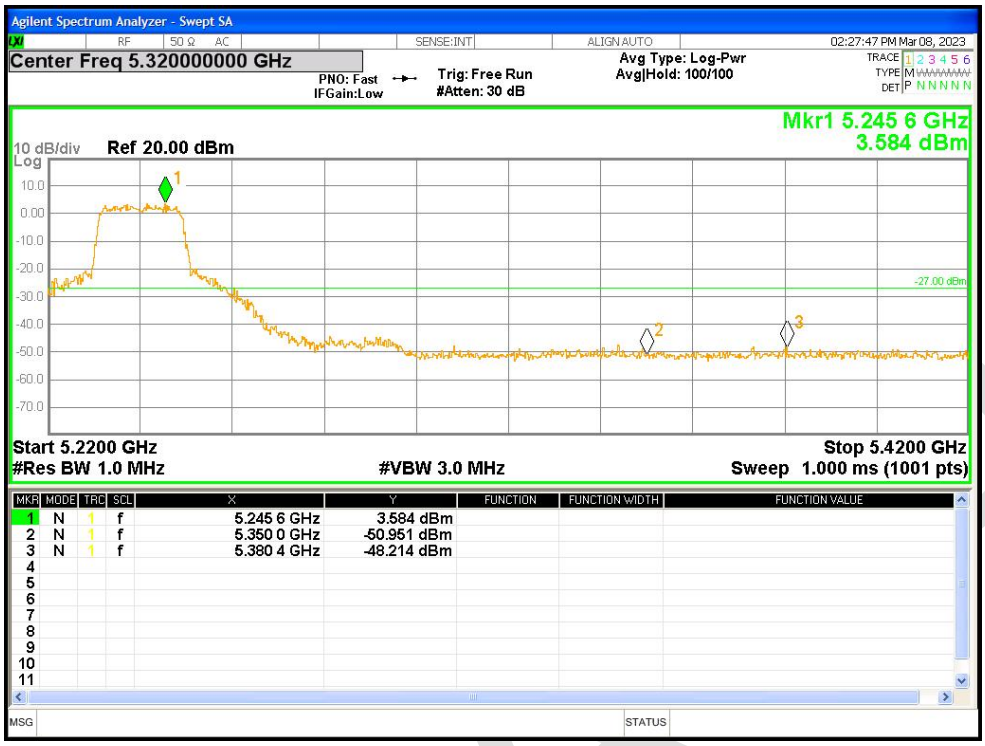
Band Edge NVNT a 5240MHz High Ant1



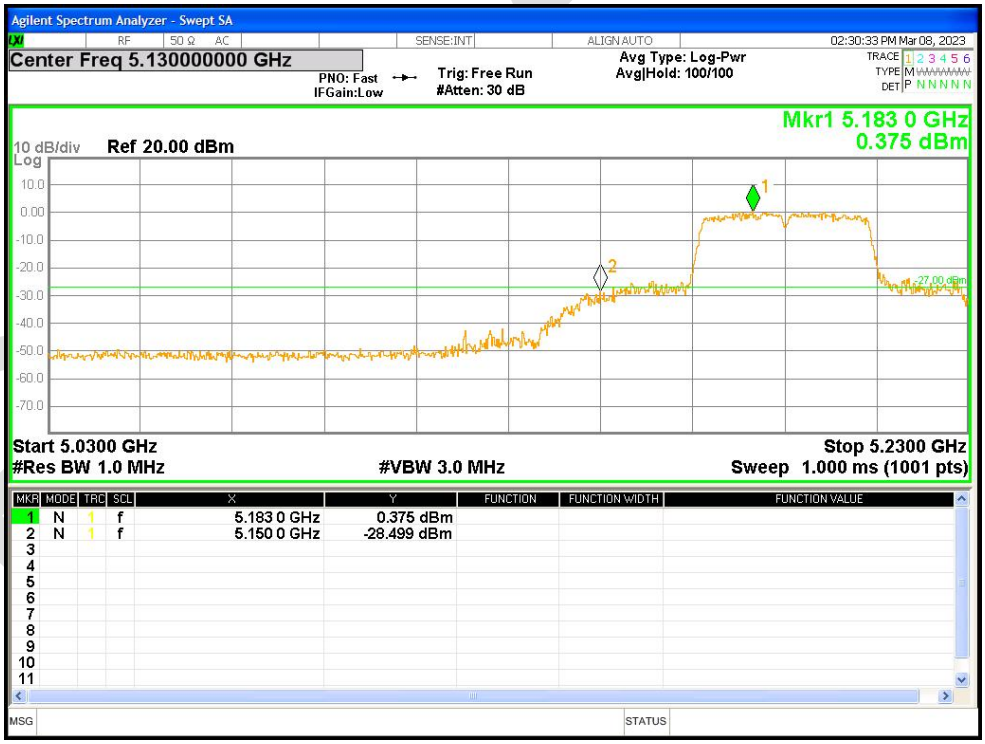
Band Edge NVNT n20 5180MHz Low Ant1



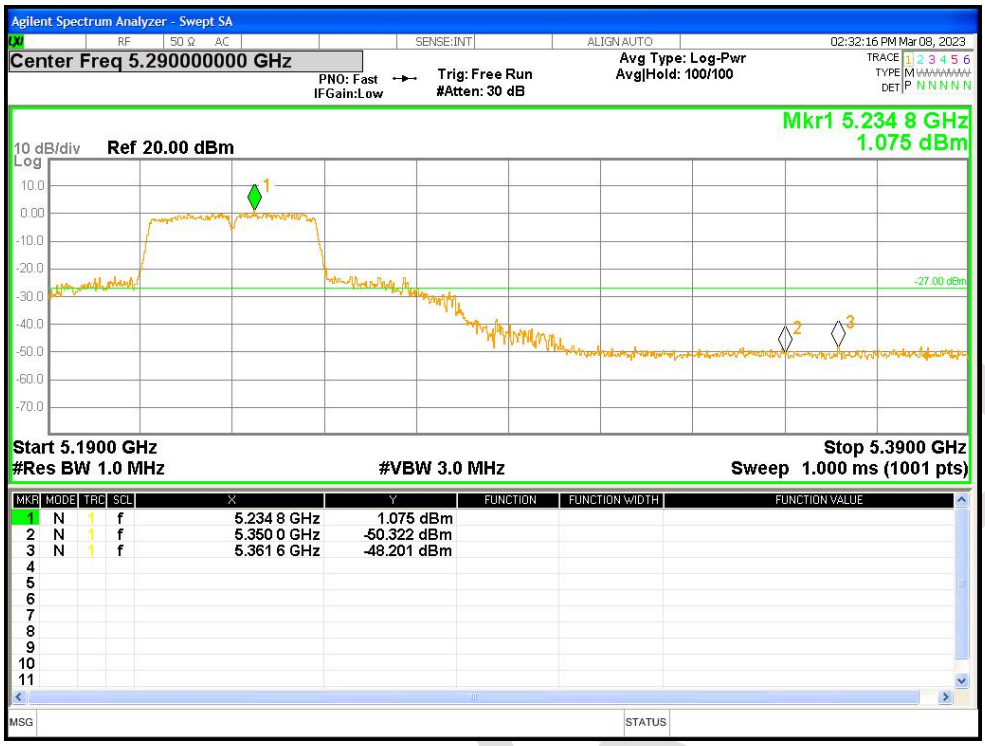
Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



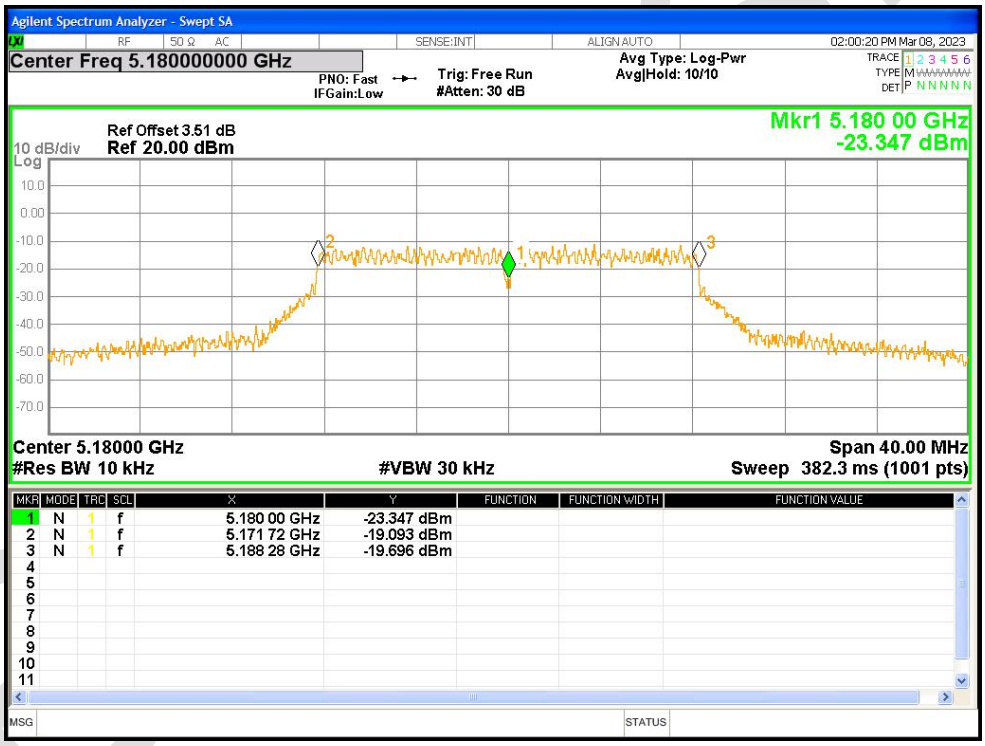
Band Edge NVNT n40 5230MHz High Ant1


Agilent Spectrum Analyzer - Swept SA
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
02:32:16 PM Mar 08, 2023
Center Freq 5.290000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.234 8 GHz
1.075 dBm
10 dB/div Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-27.00 dBm
Start 5.1900 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Stop 5.3900 GHz
Sweep 1.000 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 5.234 8 GHz 1.075 dBm
2 N 1 f 5.350 0 GHz -50.322 dBm
3 N 1 f 5.361 6 GHz -48.201 dBm
4
5
6
7
8
9
10
11
MSG
STATUS

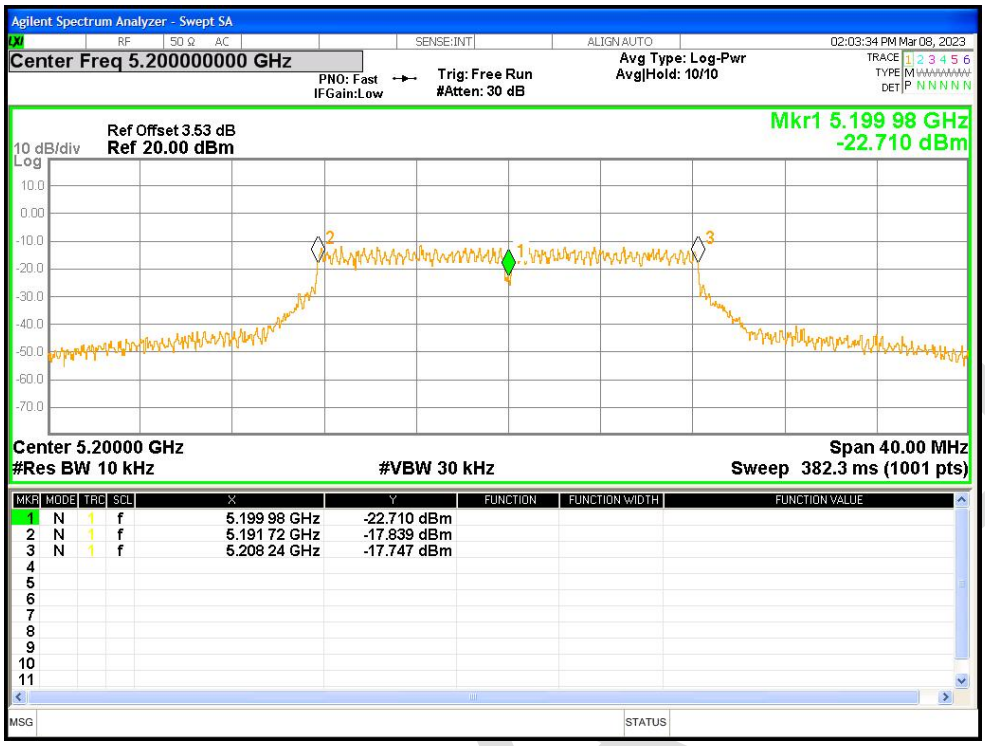
Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20	5200	Ant1	5200	0	0	25	Pass
NVNT	n20	5240	Ant1	5240	0	0	25	Pass
NVNT	n40	5190	Ant1	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass

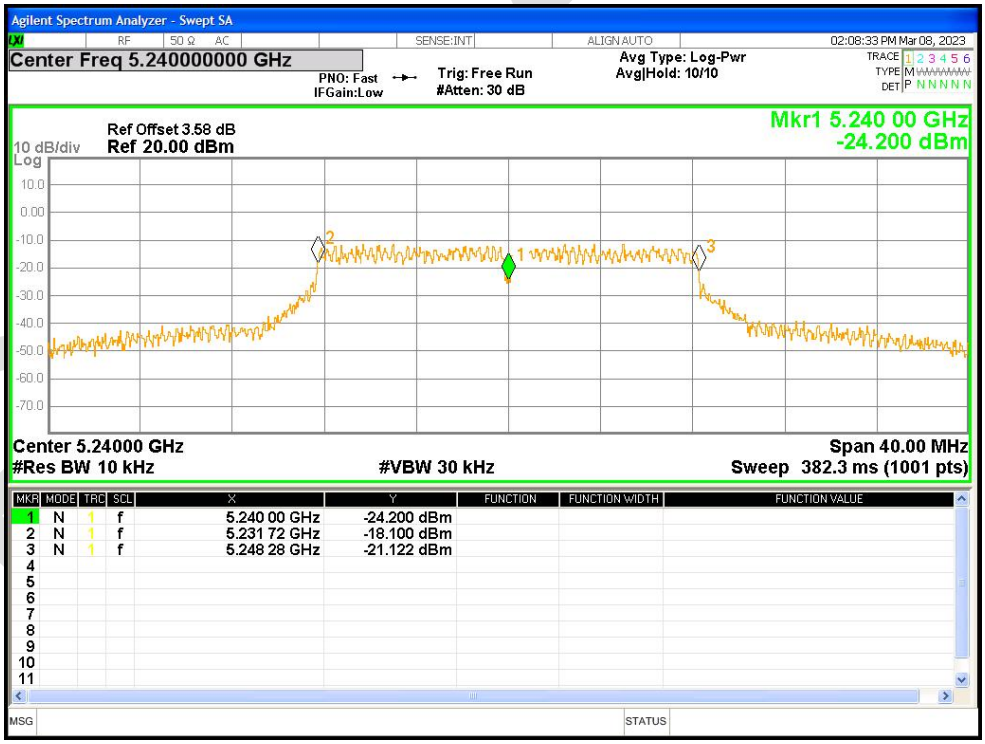
Freq. Stability NVNT a 5180MHz Ant1



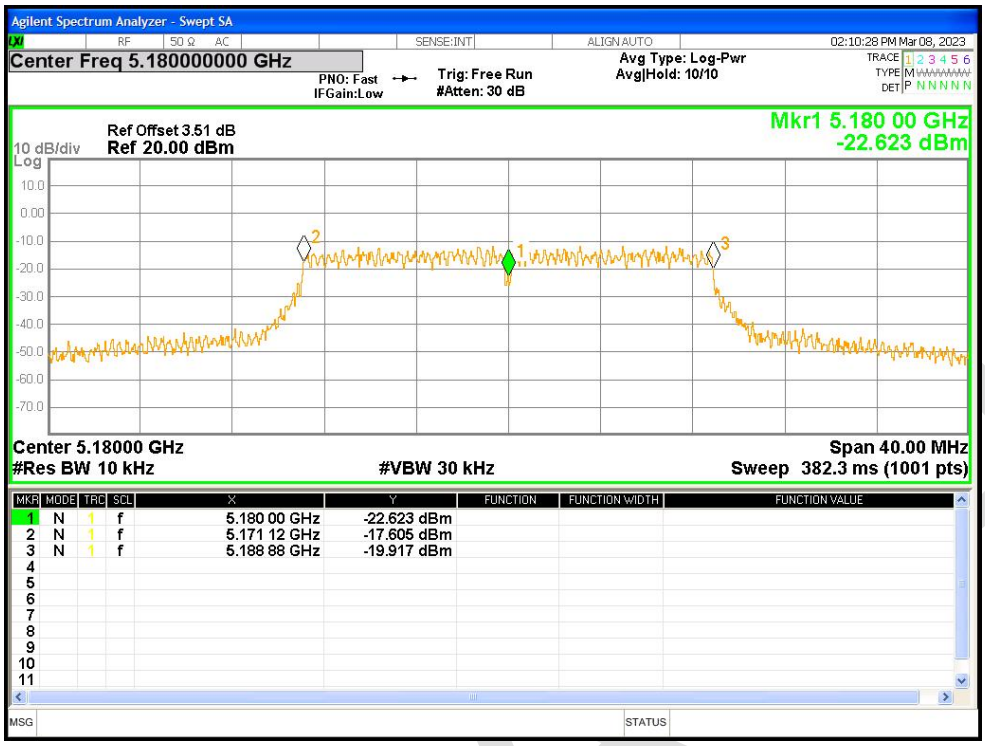
Freq. Stability NVNT a 5200MHz Ant1



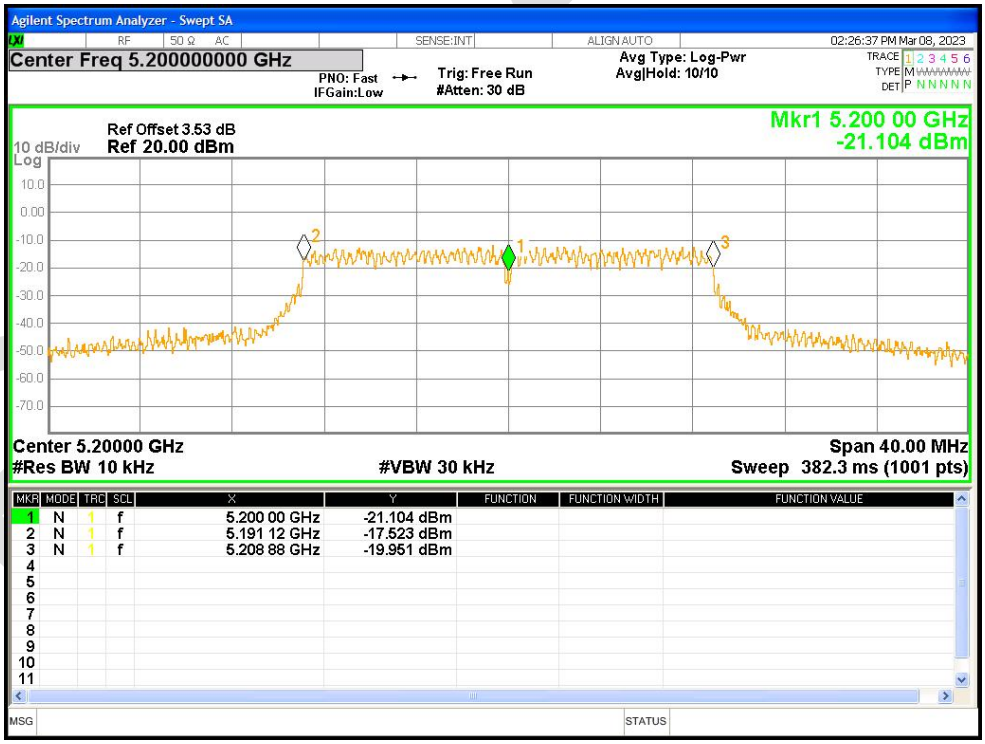
Freq. Stability NVNT a 5240MHz Ant1



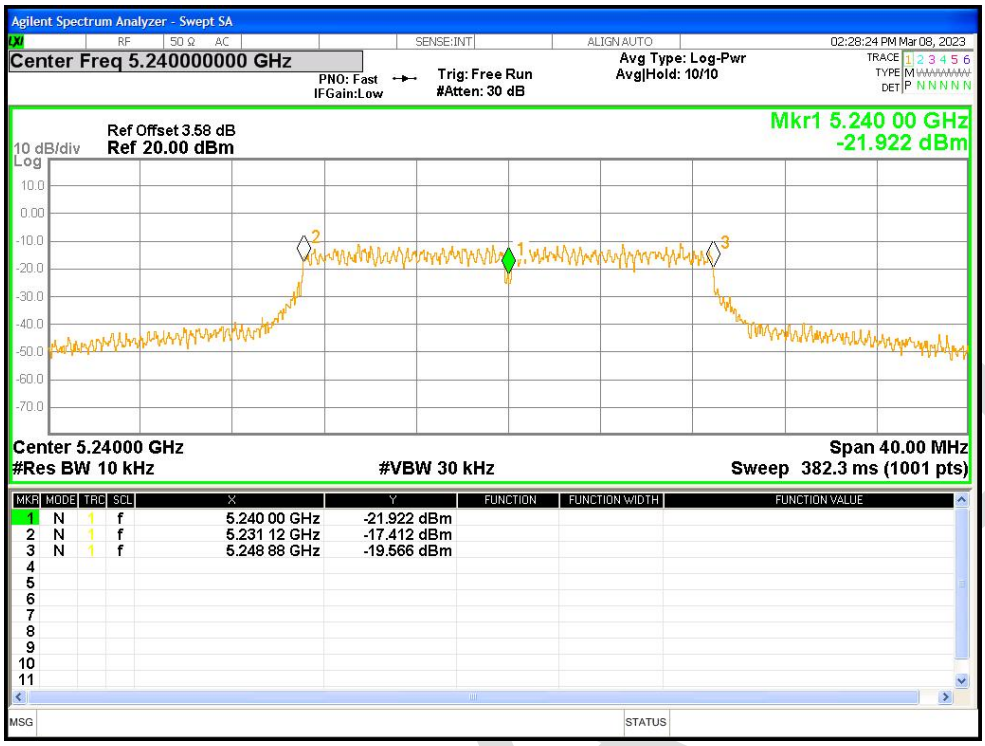
Freq. Stability NVNT n20 5180MHz Ant1



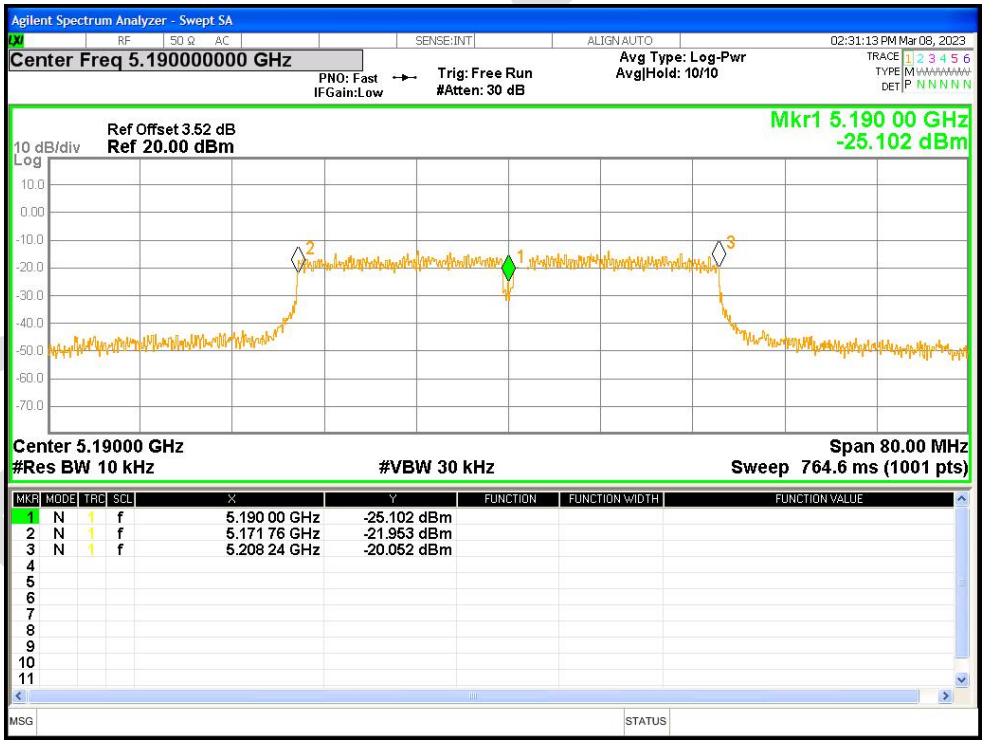
Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1