Appendix A for 5GWIFI Test Data

Product Name: Dash Camera

Test Model: R39

Environmental Conditions

Temperature:	24.2℃
Relative Humidity:	53%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu

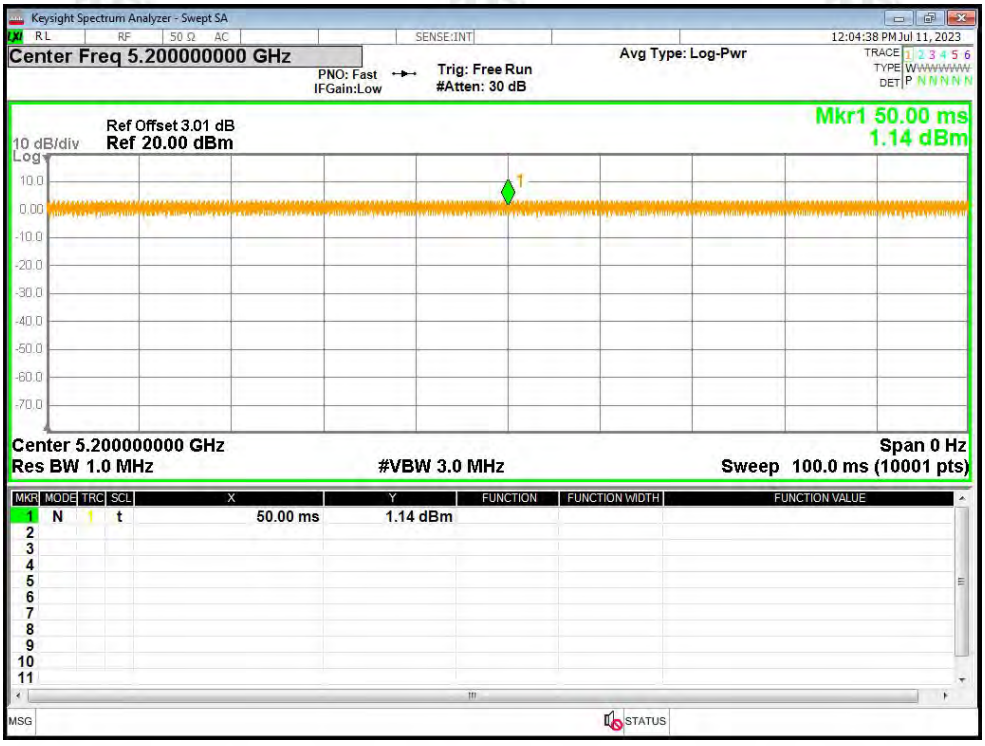
A.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	100	0	0
NVNT	a	5200	Ant1	100	0	0
NVNT	a	5240	Ant1	100	0	0
NVNT	n20	5180	Ant1	100	0	0
NVNT	n20	5200	Ant1	100	0	0
NVNT	n20	5240	Ant1	100	0	0
NVNT	n40	5190	Ant1	100	0	0
NVNT	n40	5230	Ant1	100	0	0
NVNT	ac40	5190	Ant1	100	0	0
NVNT	ac40	5230	Ant1	100	0	0
NVNT	ac80	5210	Ant1	100	0	0
NVNT	ac20	5180	Ant1	100	0	0
NVNT	ac20	5200	Ant1	100	0	0
NVNT	ac20	5240	Ant1	100	0	0

Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

Duty Cycle NVNT a 5200MHz Ant1



Duty Cycle NVNT a 5240MHz Ant1

Duty Cycle NVNT n20 5180MHz Ant1

Duty Cycle NVNT n20 5200MHz Ant1

Duty Cycle NVNT n20 5240MHz Ant1

Duty Cycle NVNT n40 5190MHz Ant1

Duty Cycle NVNT n40 5230MHz Ant1

Duty Cycle NVNT ac40 5190MHz Ant1

Duty Cycle NVNT ac40 5230MHz Ant1

Duty Cycle NVNT ac80 5210MHz Ant1

Duty Cycle NVNT ac20 5180MHz Ant1

Duty Cycle NVNT ac20 5200MHz Ant1

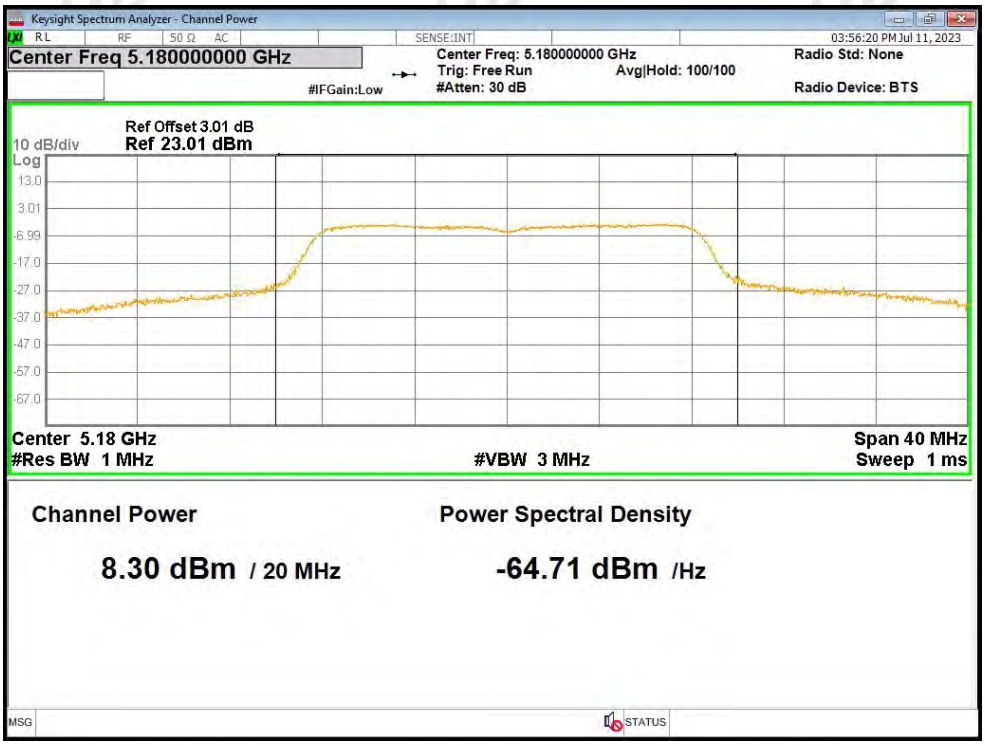
Duty Cycle NVNT ac20 5240MHz Ant1

A.2 Macimum Conducted Output Power

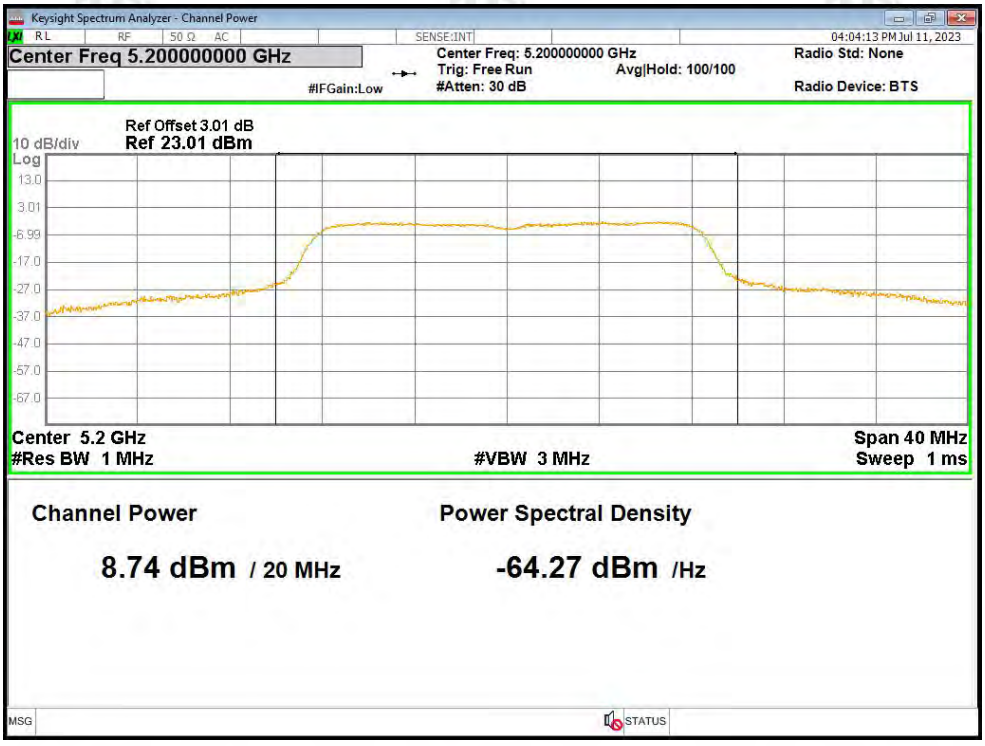
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	8.3	0	8.3	24	Pass
NVNT	a	5200	Ant1	8.74	0	8.74	24	Pass
NVNT	a	5240	Ant1	9.89	0	9.89	24	Pass
NVNT	n20	5180	Ant1	7.82	0	7.82	24	Pass
NVNT	n20	5200	Ant1	8.59	0	8.59	24	Pass
NVNT	n20	5240	Ant1	9.74	0	9.74	24	Pass
NVNT	n40	5190	Ant1	8.3	0	8.3	24	Pass
NVNT	n40	5230	Ant1	9.47	0	9.47	24	Pass
NVNT	ac40	5190	Ant1	8.03	0	8.03	24	Pass
NVNT	ac40	5230	Ant1	9.31	0	9.31	24	Pass
NVNT	ac80	5210	Ant1	9.99	0	9.99	24	Pass
NVNT	ac20	5180	Ant1	7.6	0	7.6	24	Pass
NVNT	ac20	5200	Ant1	8.48	0	8.48	24	Pass
NVNT	ac20	5240	Ant1	9.65	0	9.65	24	Pass

Test Graphs

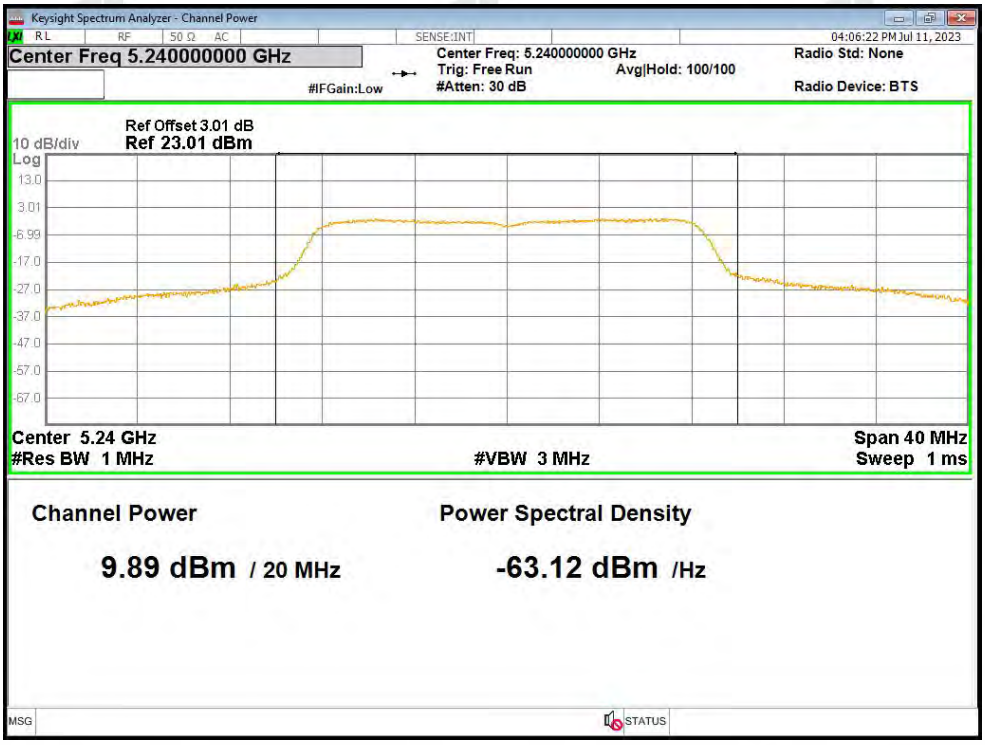
Power NVNT a 5180MHz Ant1



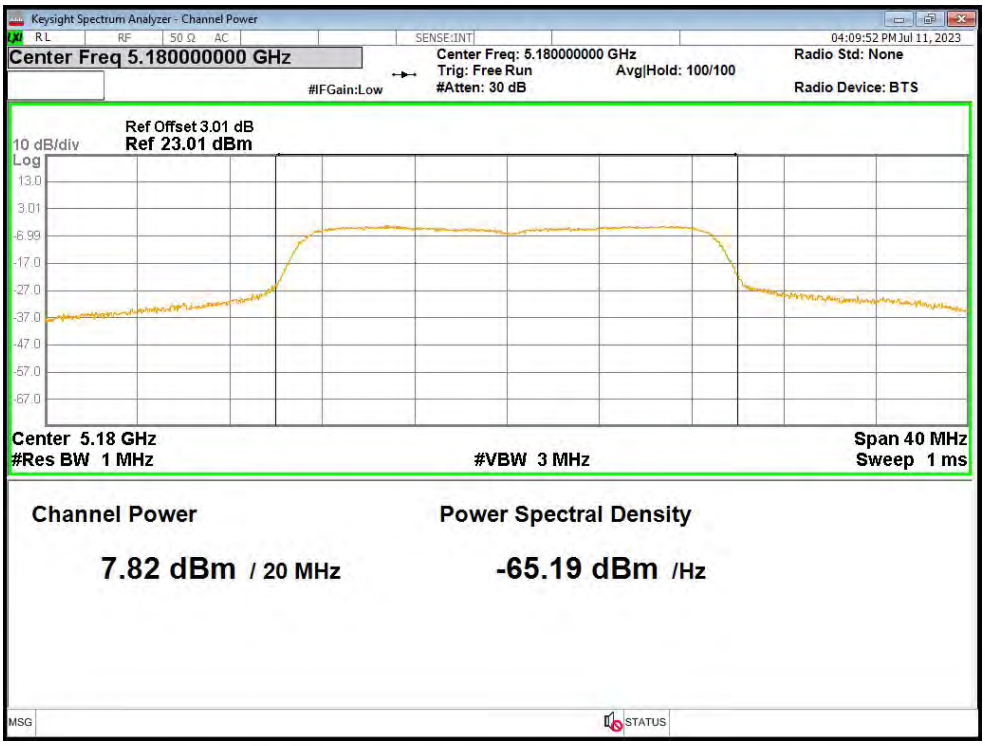
Power NVNT a 5200MHz Ant1



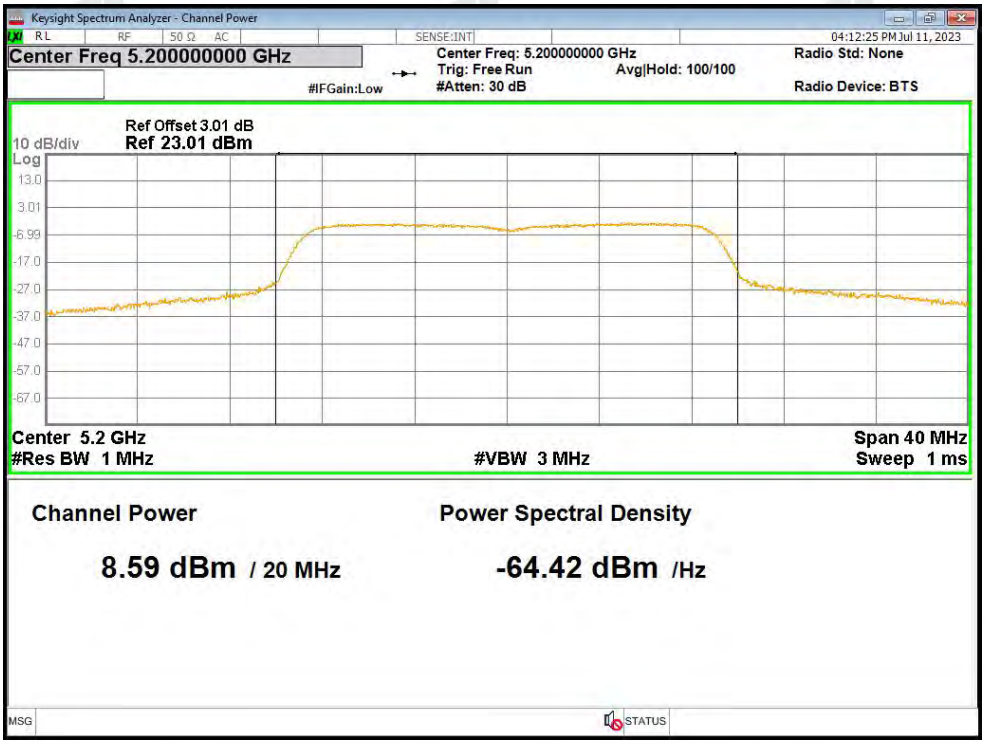
Power NVNT a 5240MHz Ant1



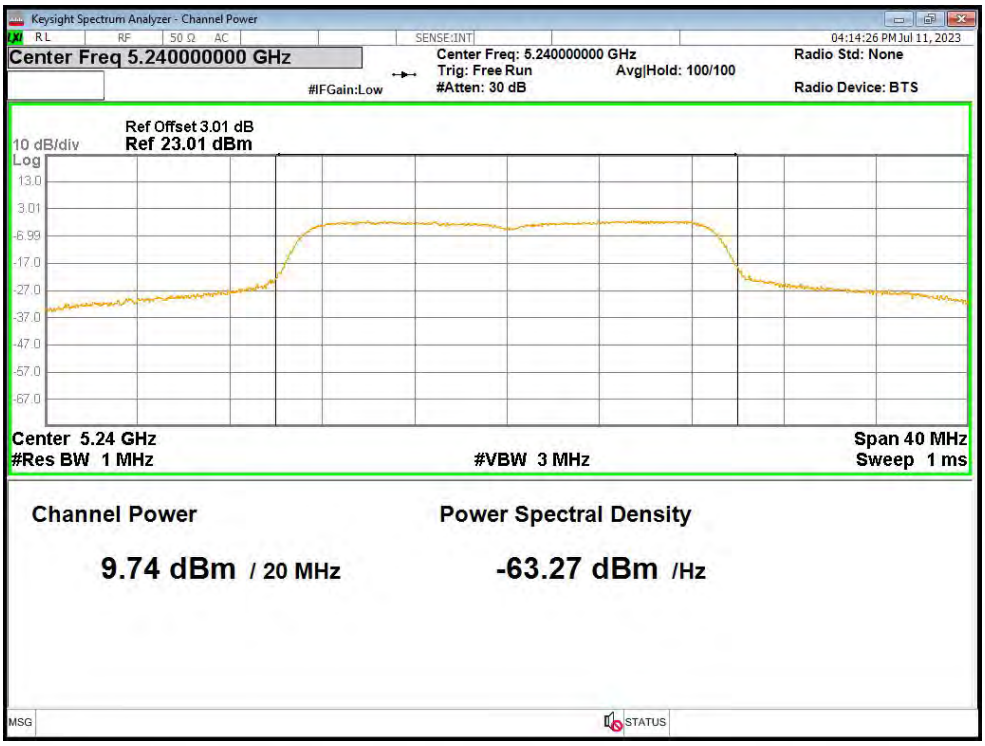
Power NVNT n20 5180MHz Ant1



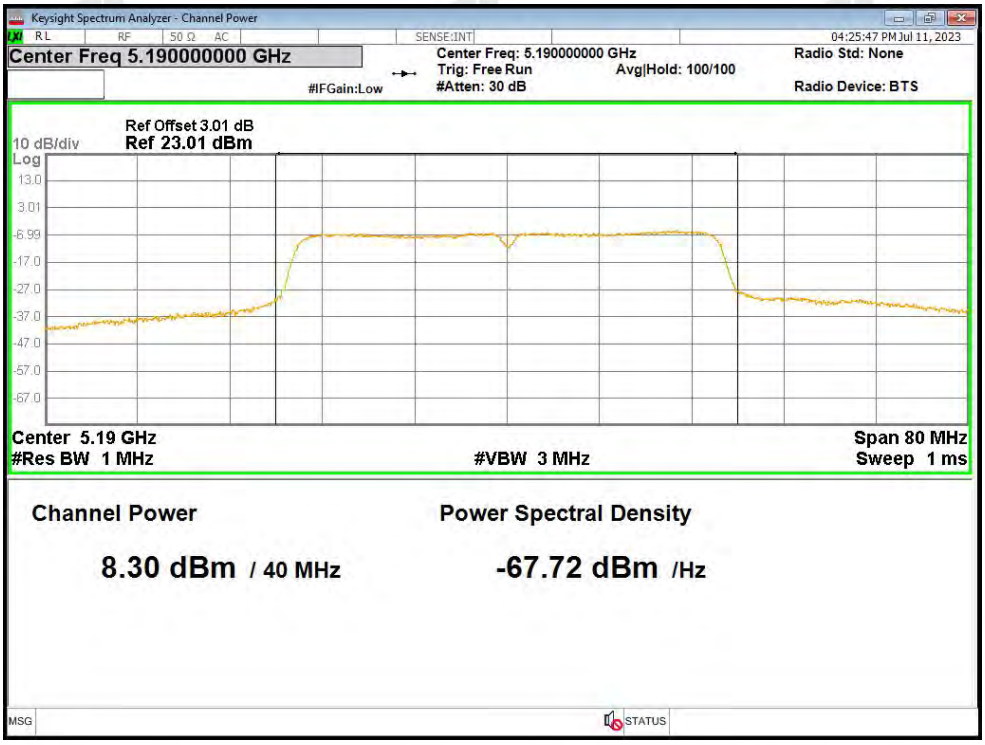
Power NVNT n20 5200MHz Ant1



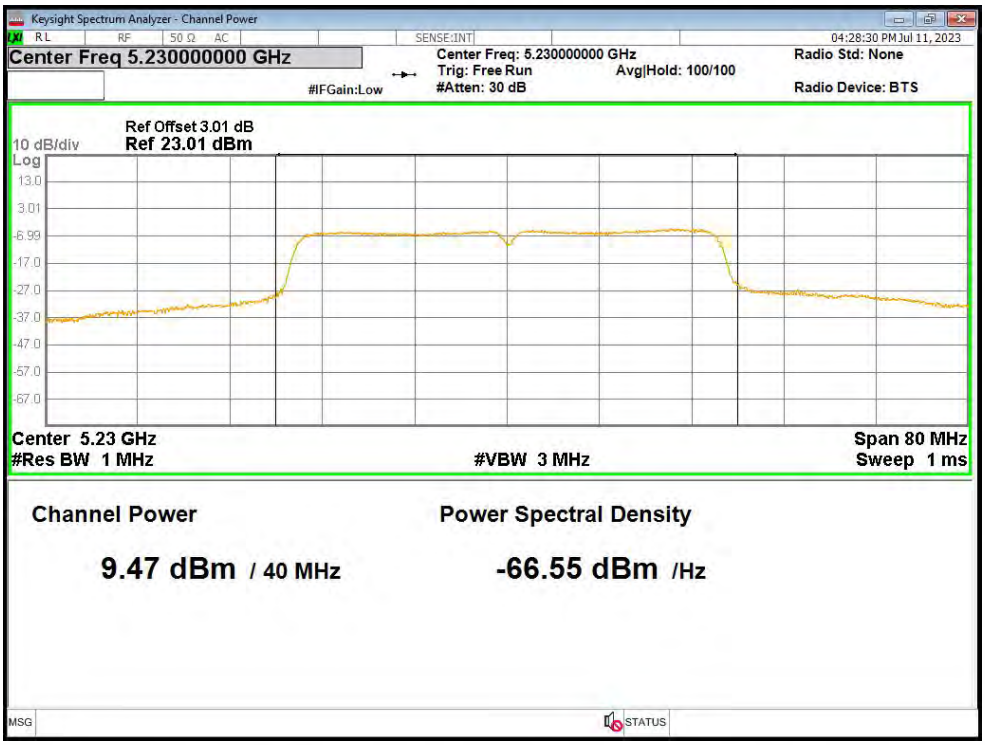
Power NVNT n20 5240MHz Ant1



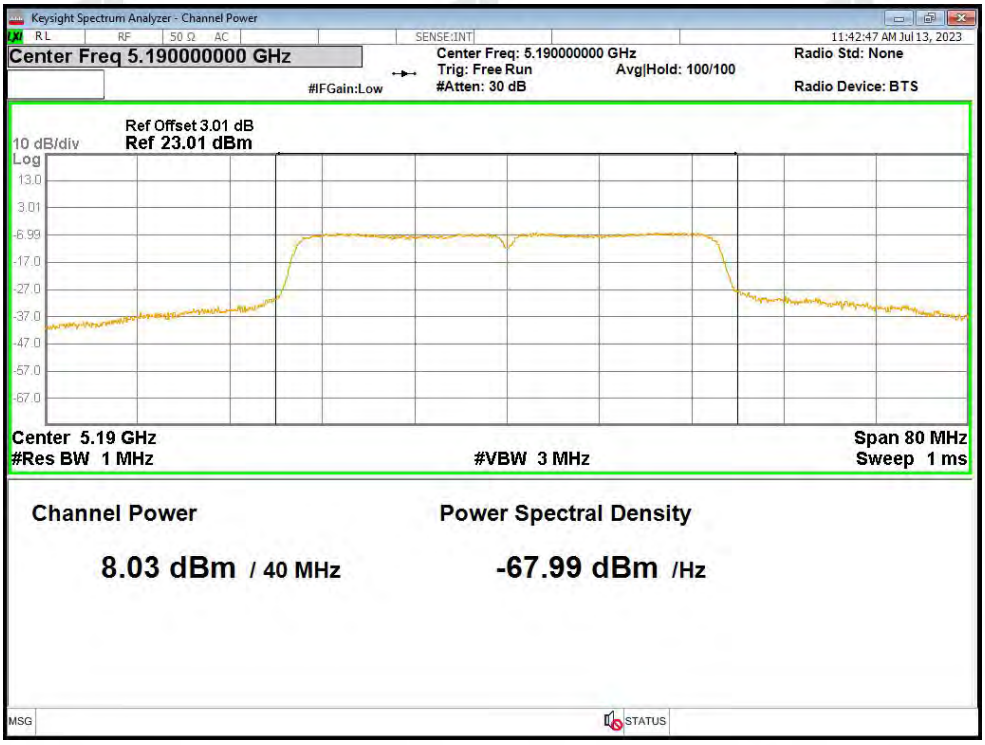
Power NVNT n40 5190MHz Ant1



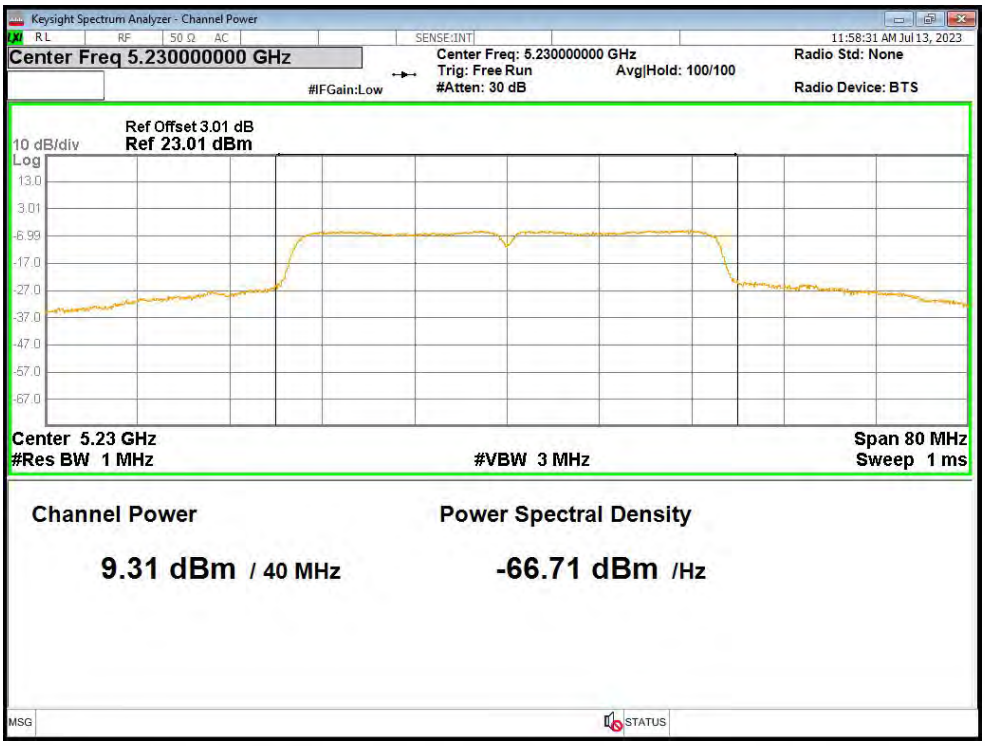
Power NVNT n40 5230MHz Ant1



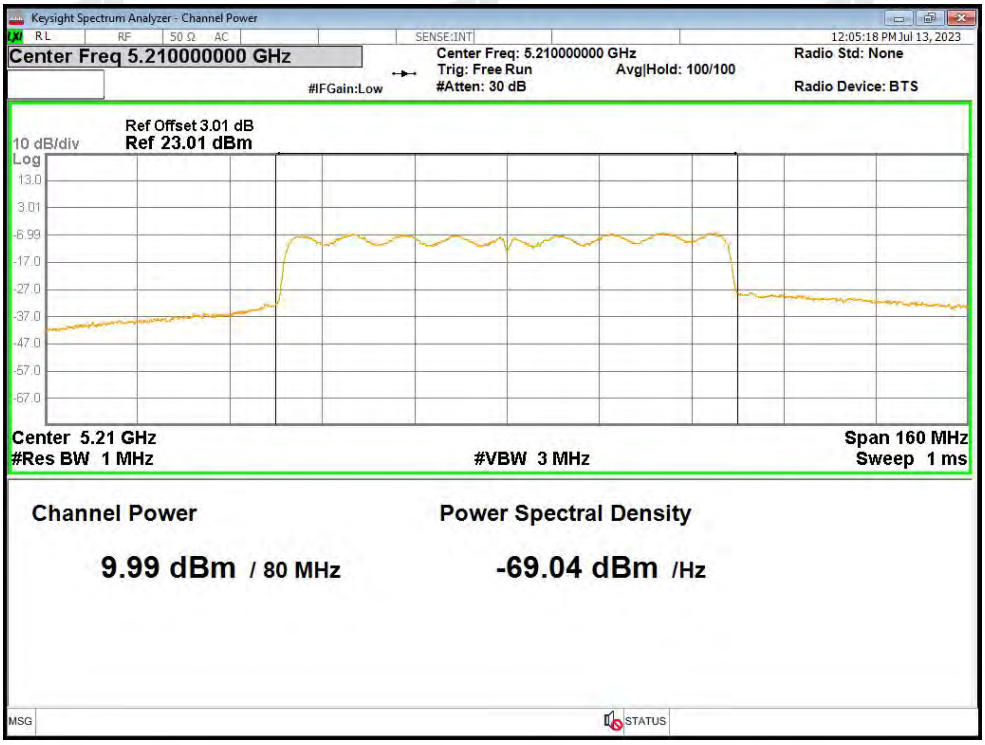
Power NVNT ac40 5190MHz Ant1



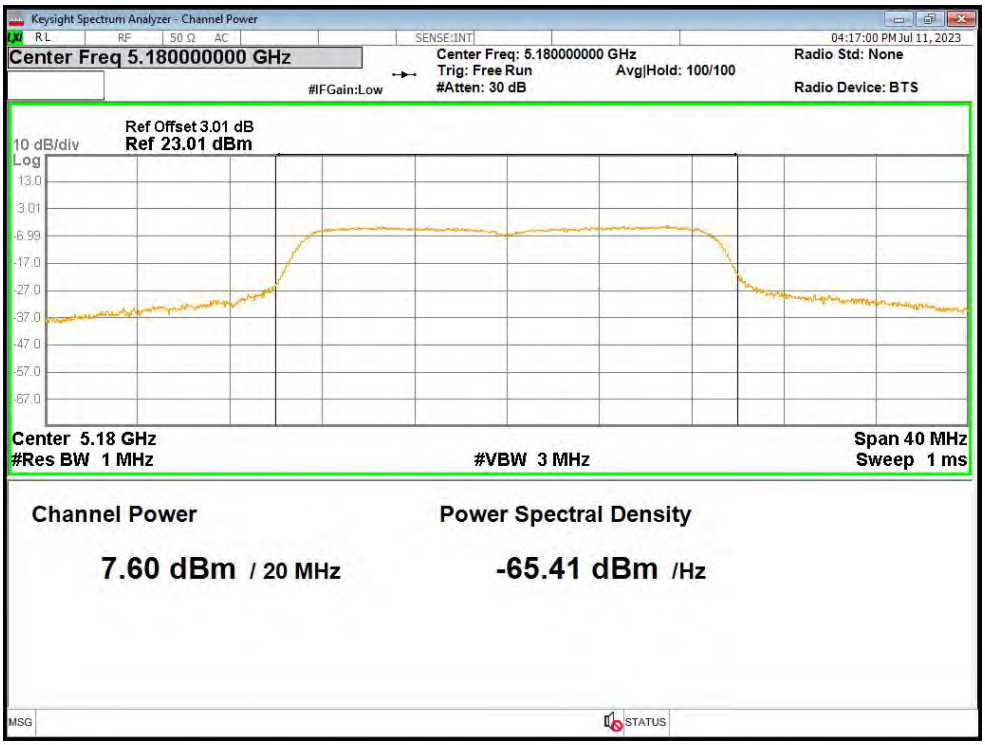
Power NVNT ac40 5230MHz Ant1



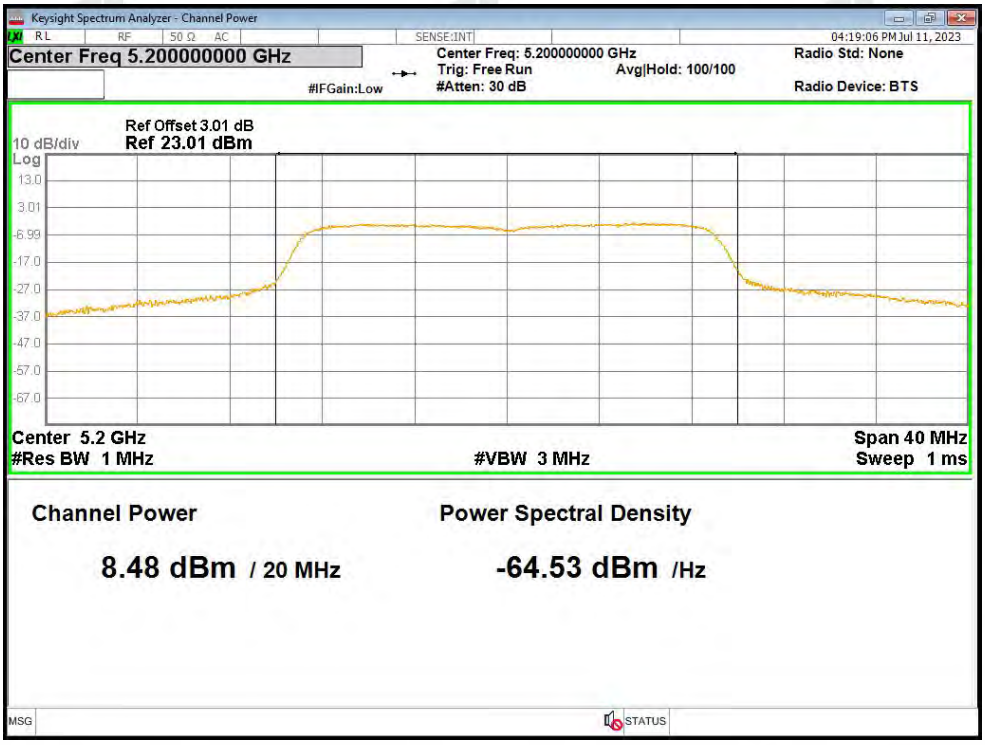
Power NVNT ac80 5210MHz Ant1



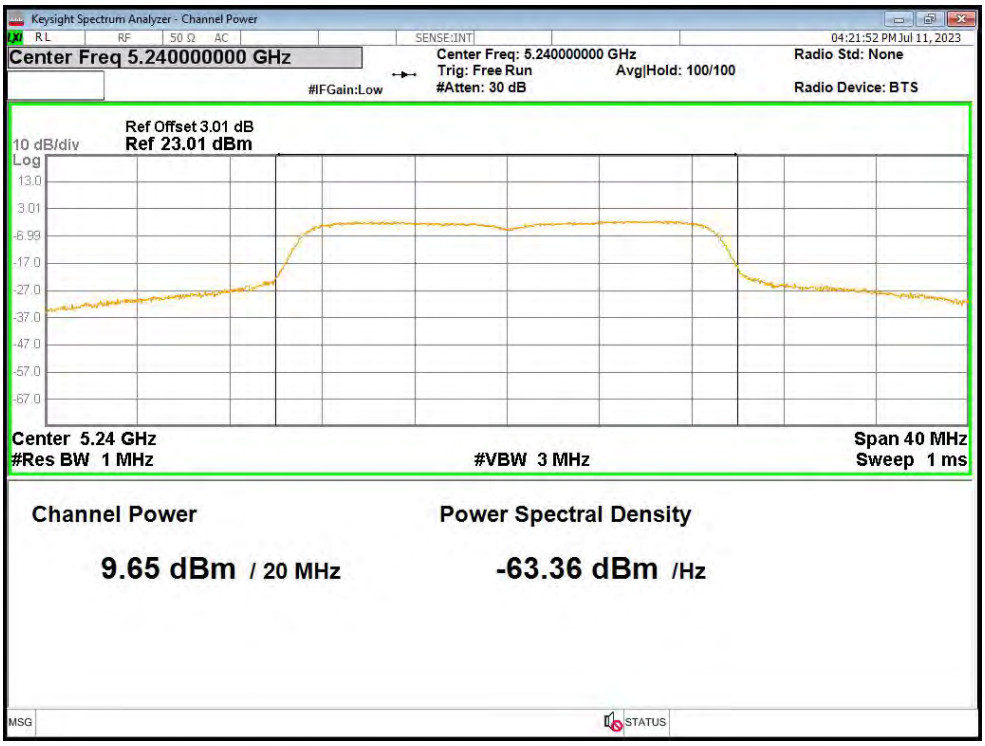
Power NVNT ac20 5180MHz Ant1



Power NVNT ac20 5200MHz Ant1



Power NVNT ac20 5240MHz Ant1

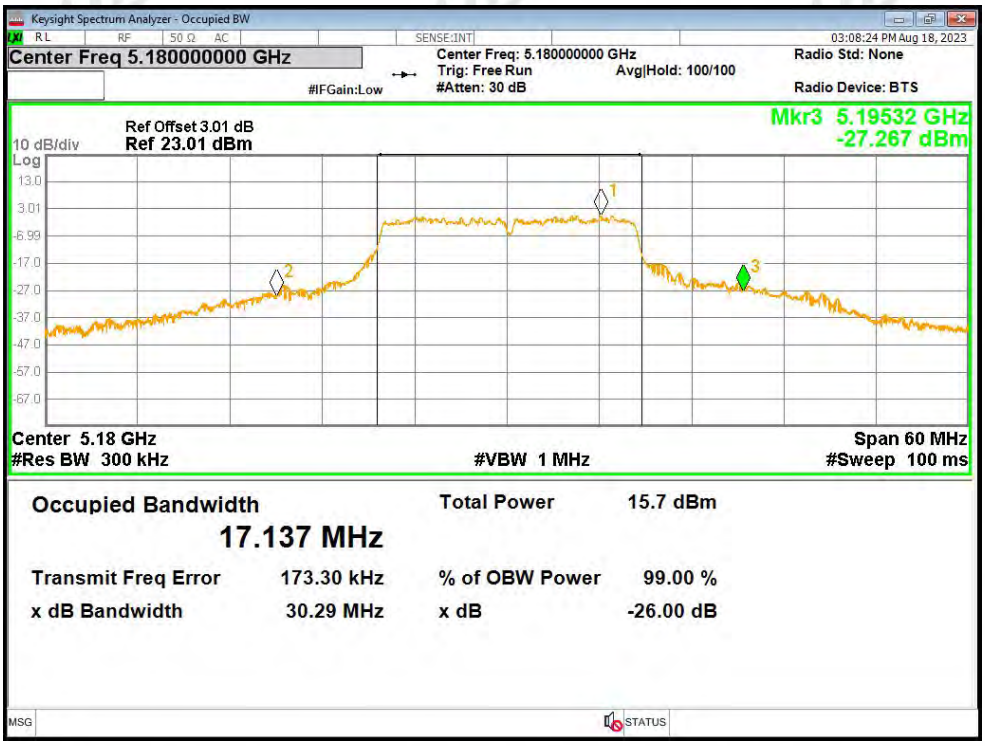


A.3 -26dB Bandwidth

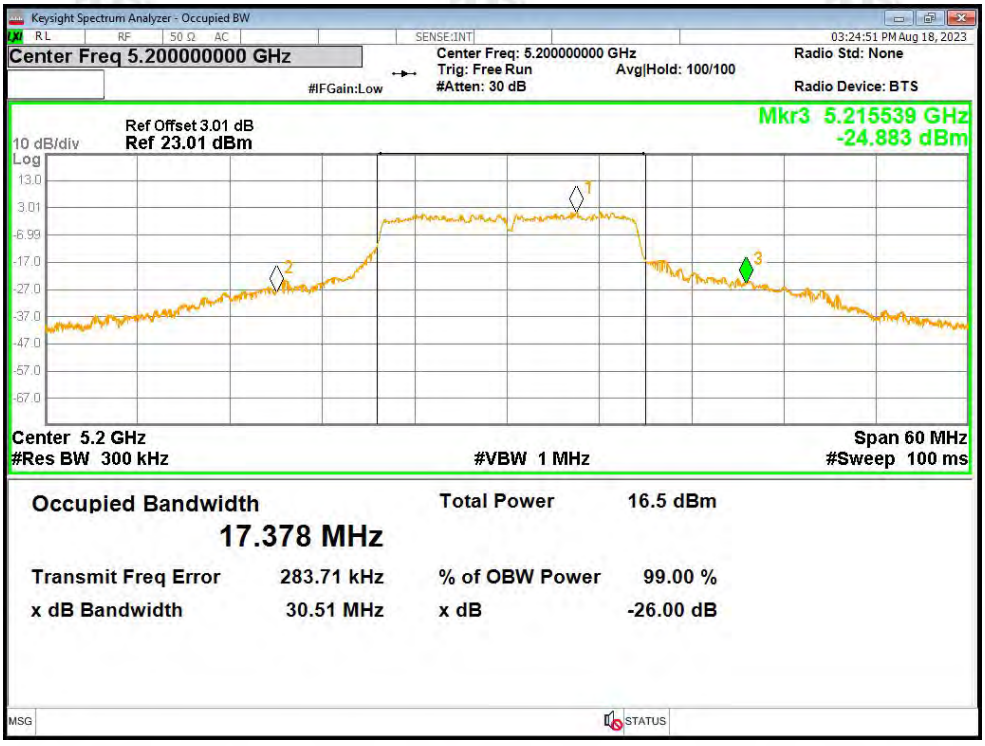
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	30.29	0.5	Pass
NVNT	a	5200	Ant1	30.51	0.5	Pass
NVNT	a	5240	Ant1	33.88	0.5	Pass
NVNT	n20	5180	Ant1	27.39	0.5	Pass
NVNT	n20	5200	Ant1	32.82	0.5	Pass
NVNT	n20	5240	Ant1	35.62	0.5	Pass
NVNT	n40	5190	Ant1	50.85	0.5	Pass
NVNT	n40	5230	Ant1	63.26	0.5	Pass
NVNT	ac40	5190	Ant1	71.23	0.5	Pass
NVNT	ac40	5230	Ant1	78.01	0.5	Pass
NVNT	ac80	5210	Ant1	79.31	0.5	Pass
NVNT	ac20	5180	Ant1	27.70	0.5	Pass
NVNT	ac20	5200	Ant1	29.10	0.5	Pass
NVNT	ac20	5240	Ant1	36.57	0.5	Pass

Test Graphs

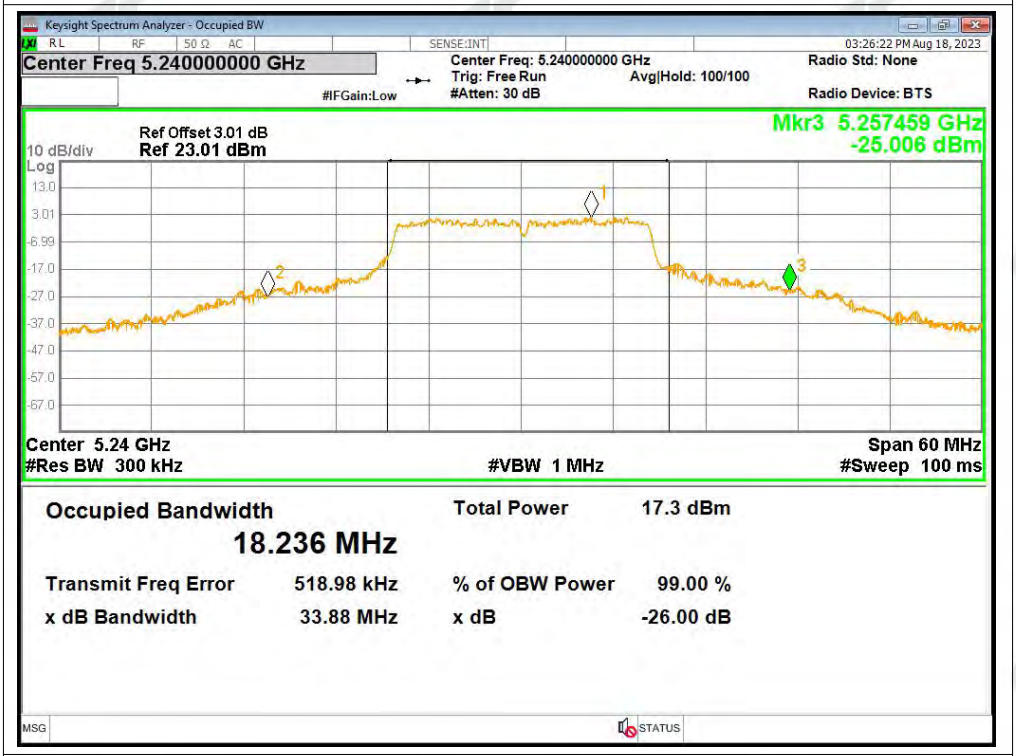
-26dB Bandwidth NVNT a 5180MHz Ant1



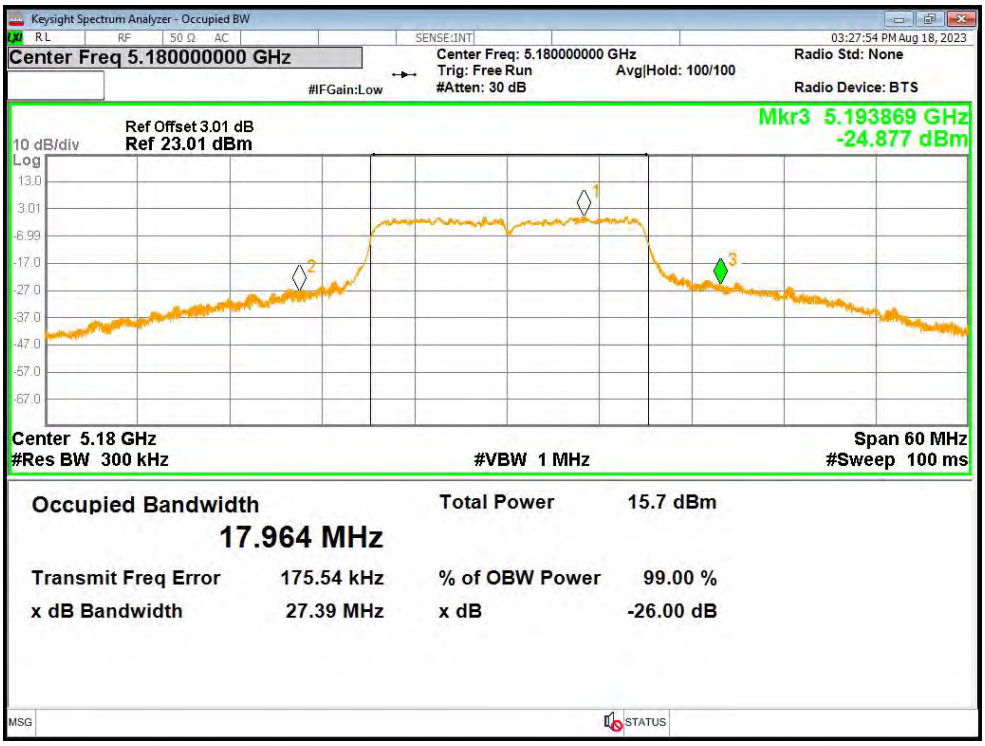
-26dB Bandwidth NVNT a 5200MHz Ant1



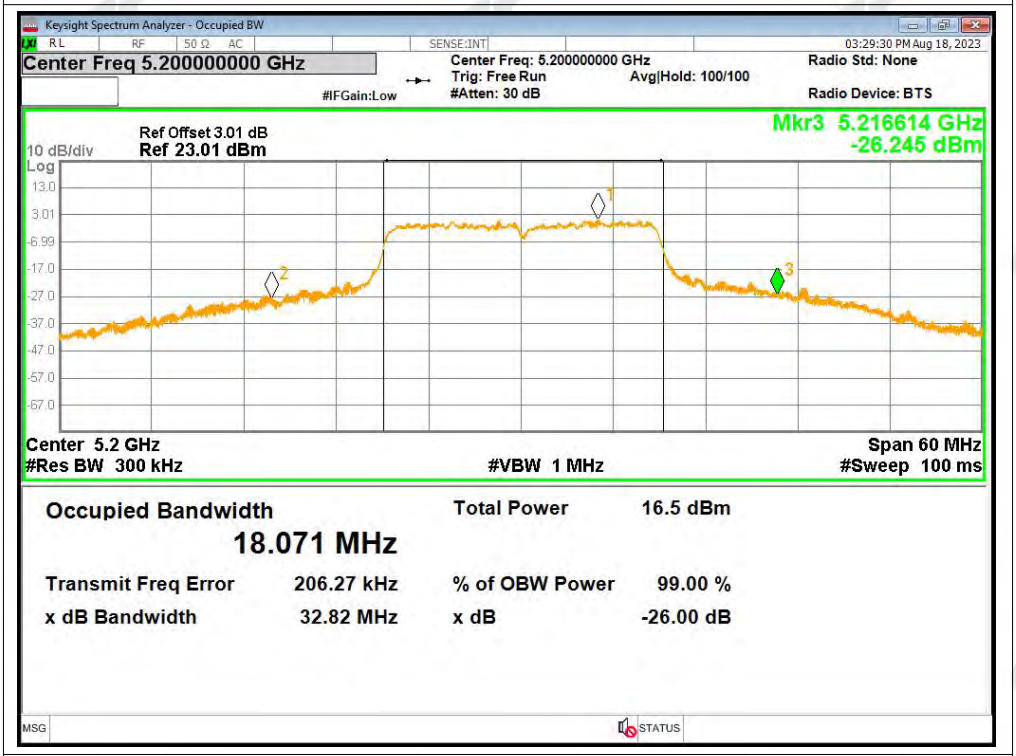
-26dB Bandwidth NVNT a 5240MHz Ant1



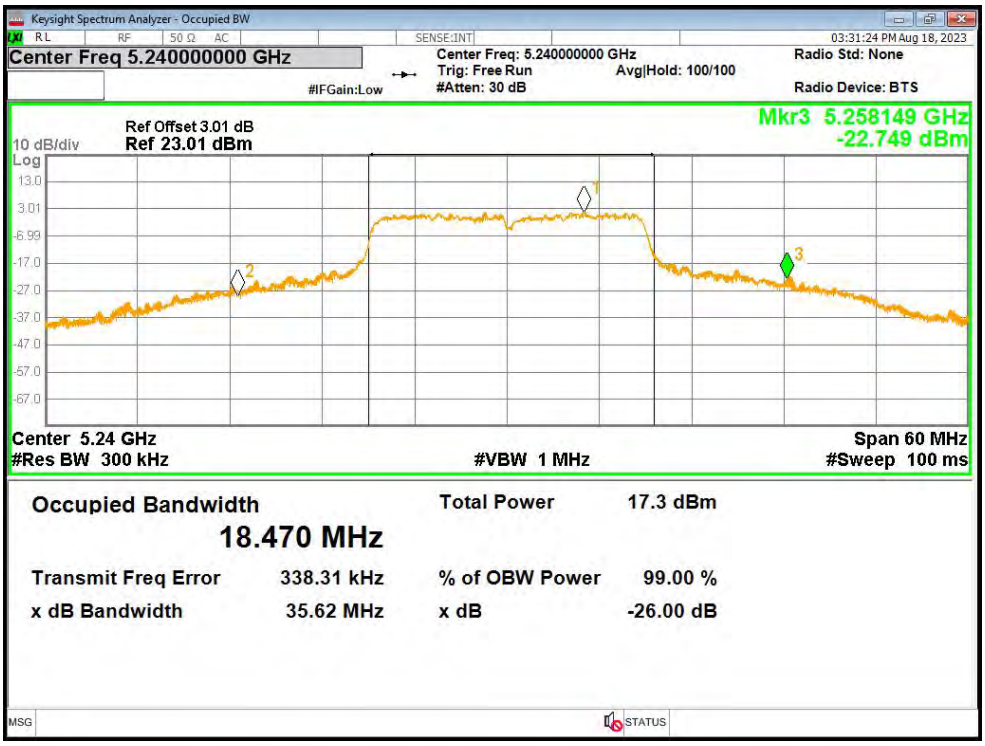
-26dB Bandwidth NVNT n20 5180MHz Ant1



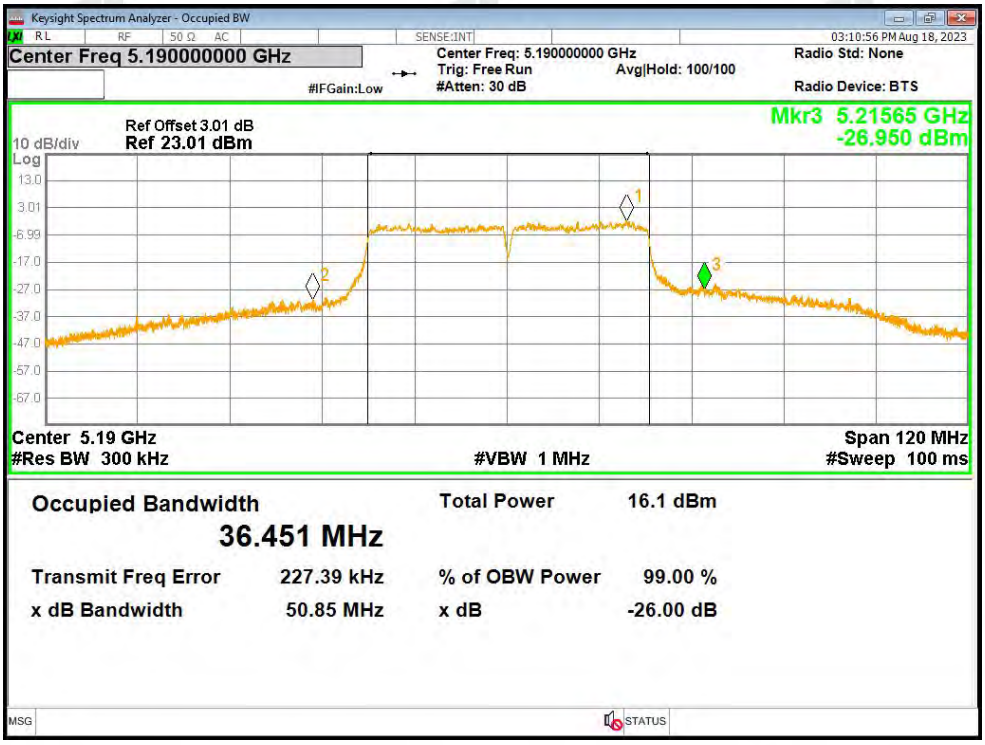
-26dB Bandwidth NVNT n20 5200MHz Ant1



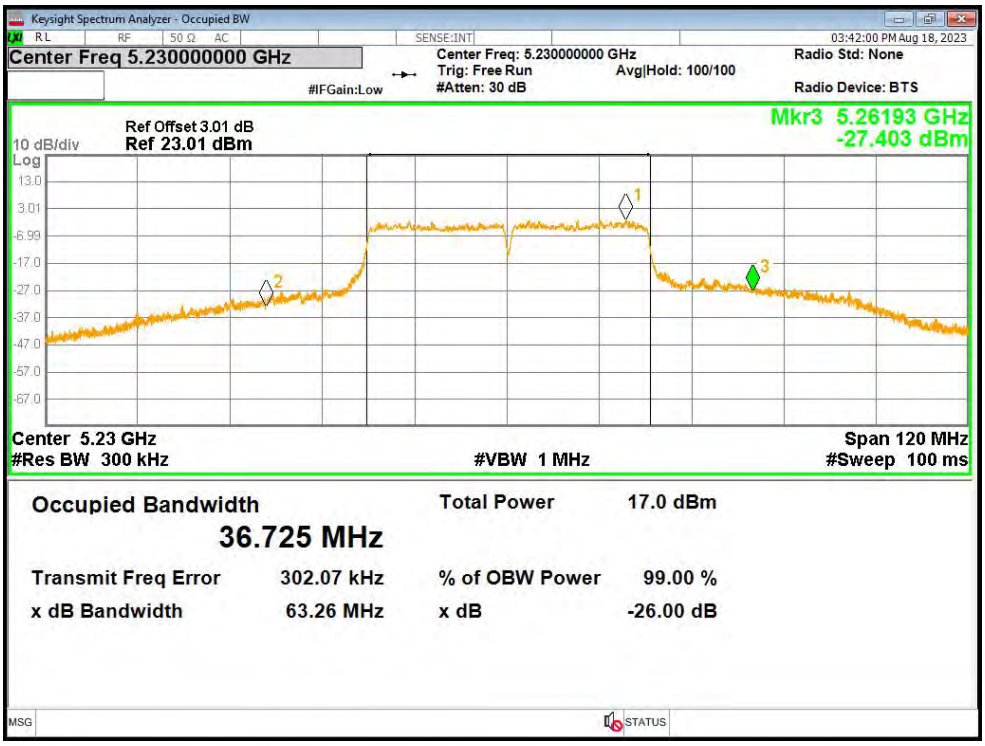
-26dB Bandwidth NVNT n20 5240MHz Ant1



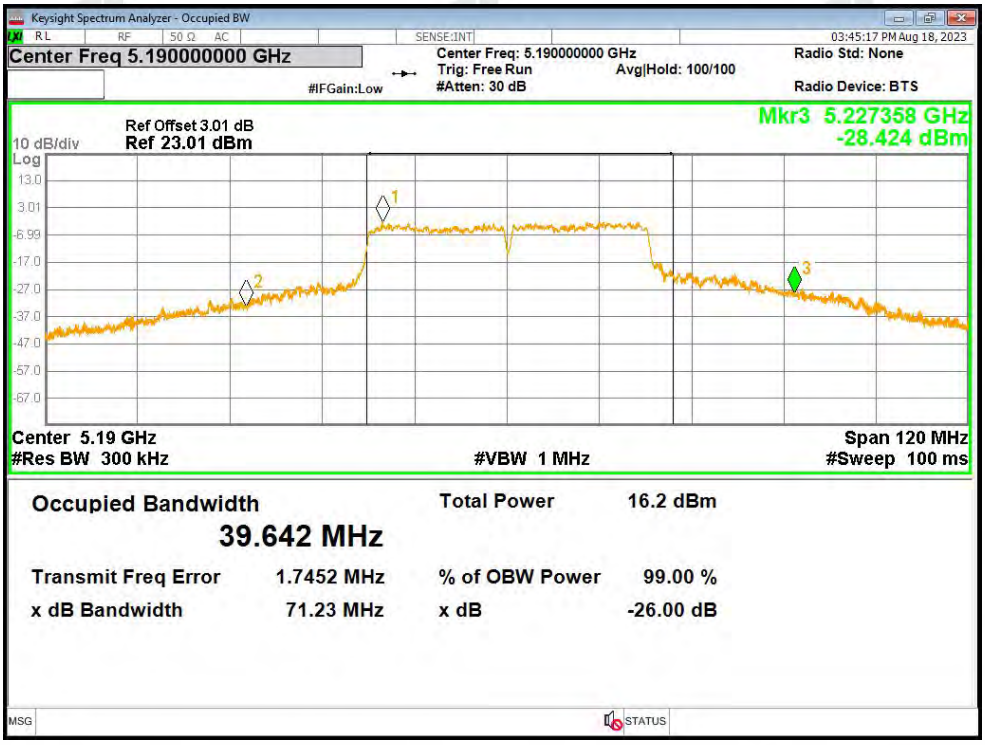
-26dB Bandwidth NVNT n40 5190MHz Ant1



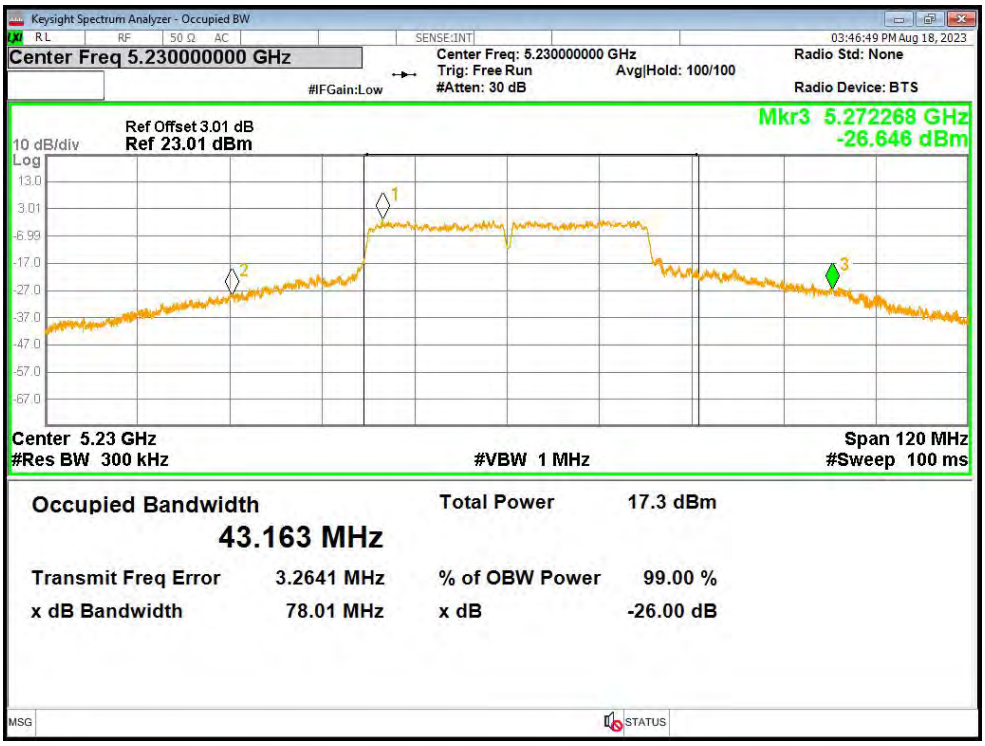
-26dB Bandwidth NVNT n40 5230MHz Ant1



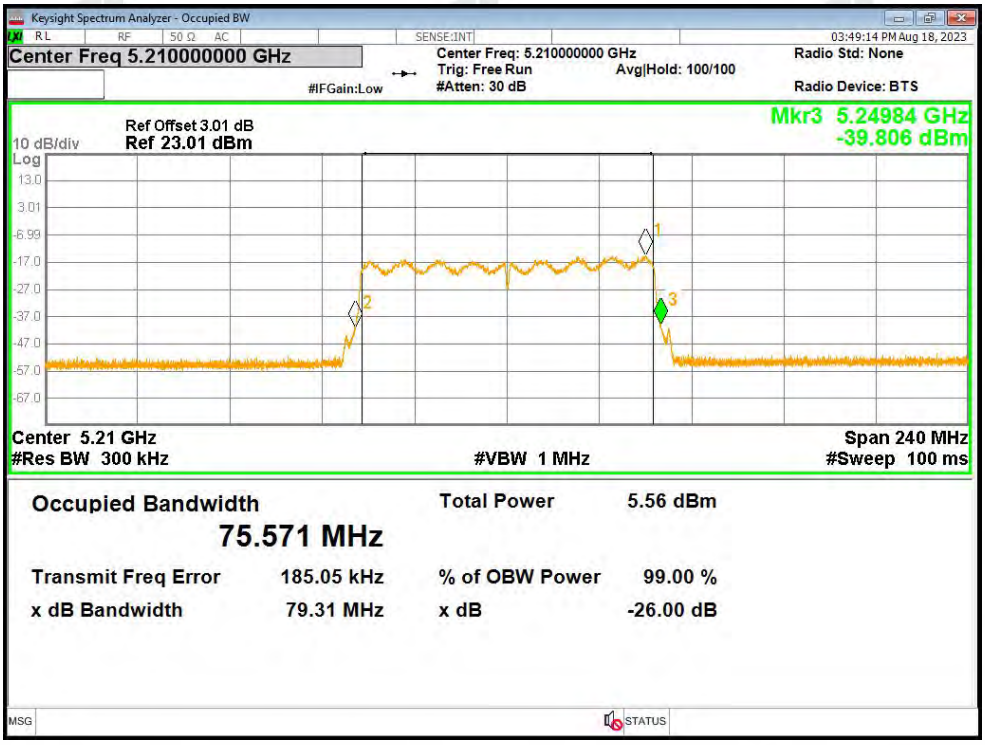
-26dB Bandwidth NVNT ac40 5190MHz Ant1



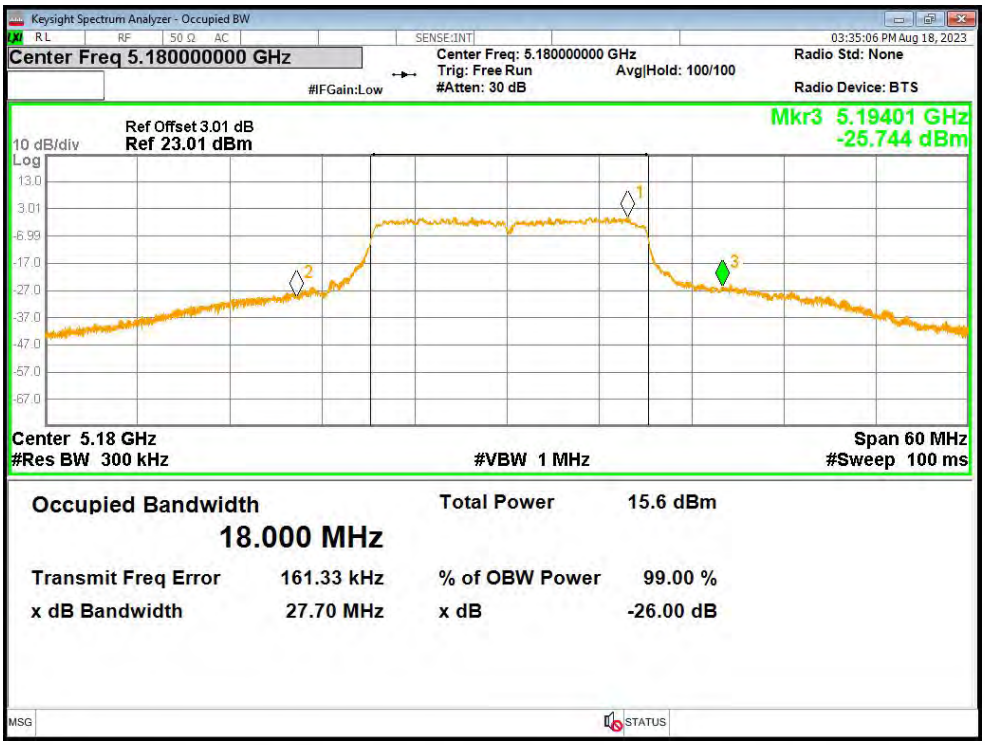
-26dB Bandwidth NVNT ac40 5230MHz Ant1



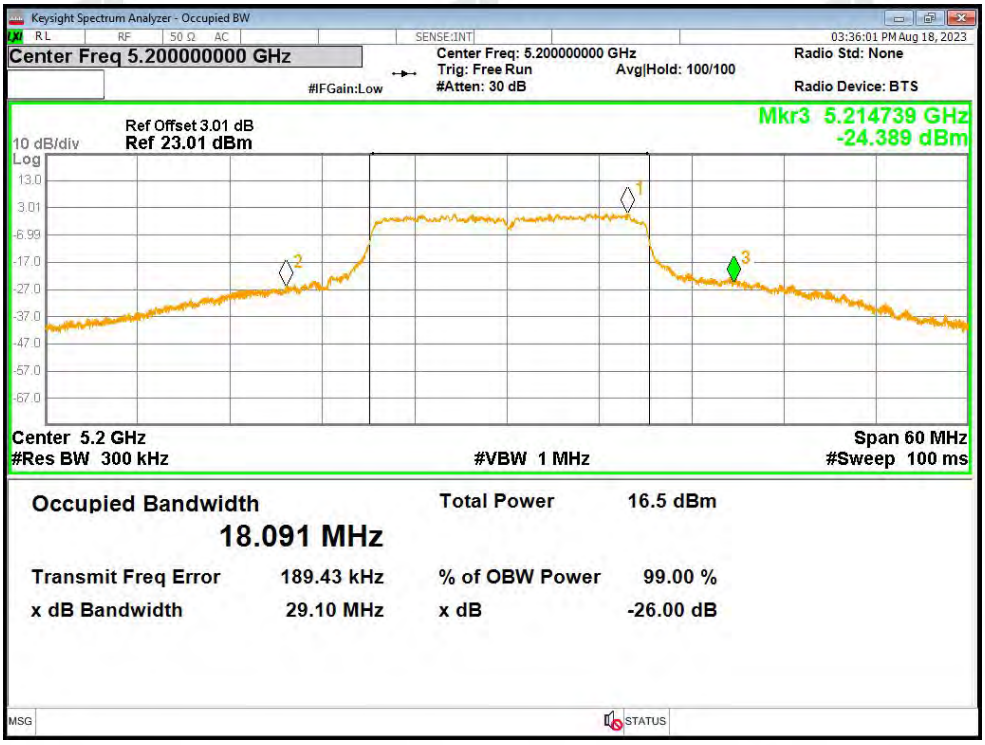
-26dB Bandwidth NVNT ac80 5210MHz Ant1



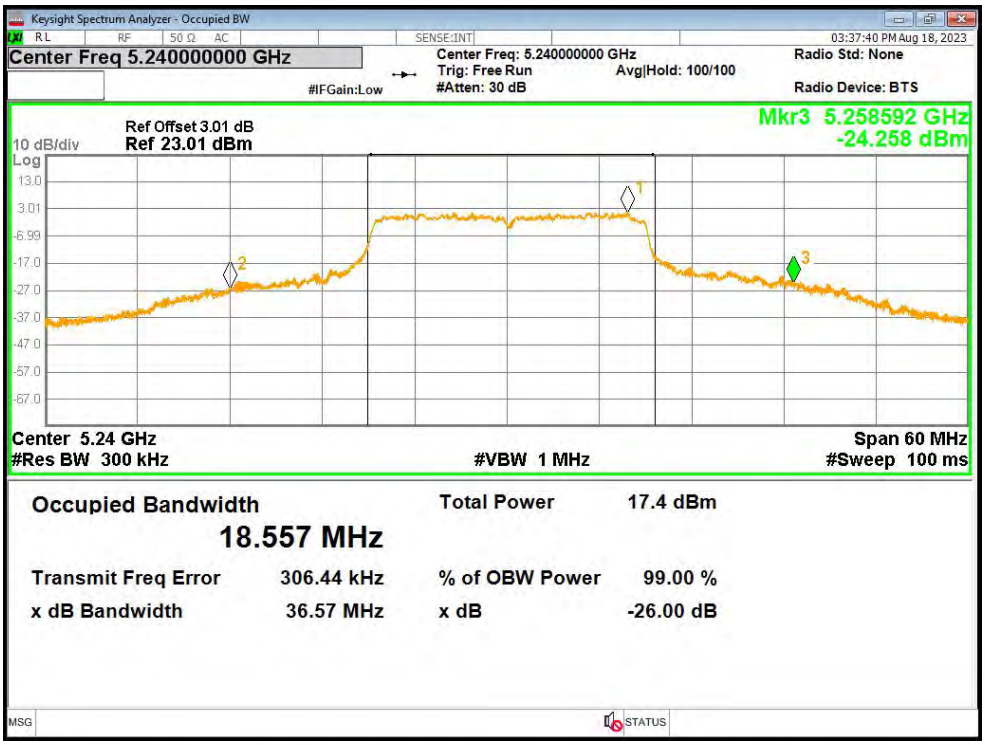
-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1

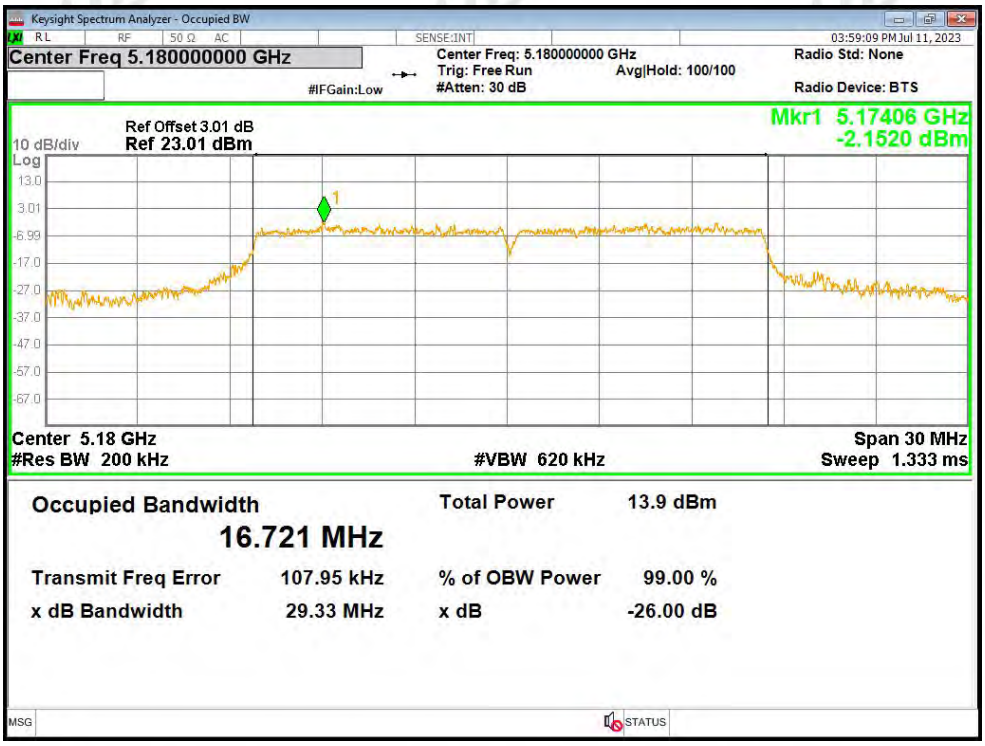


A.4 Occupied Channel Bandwidth

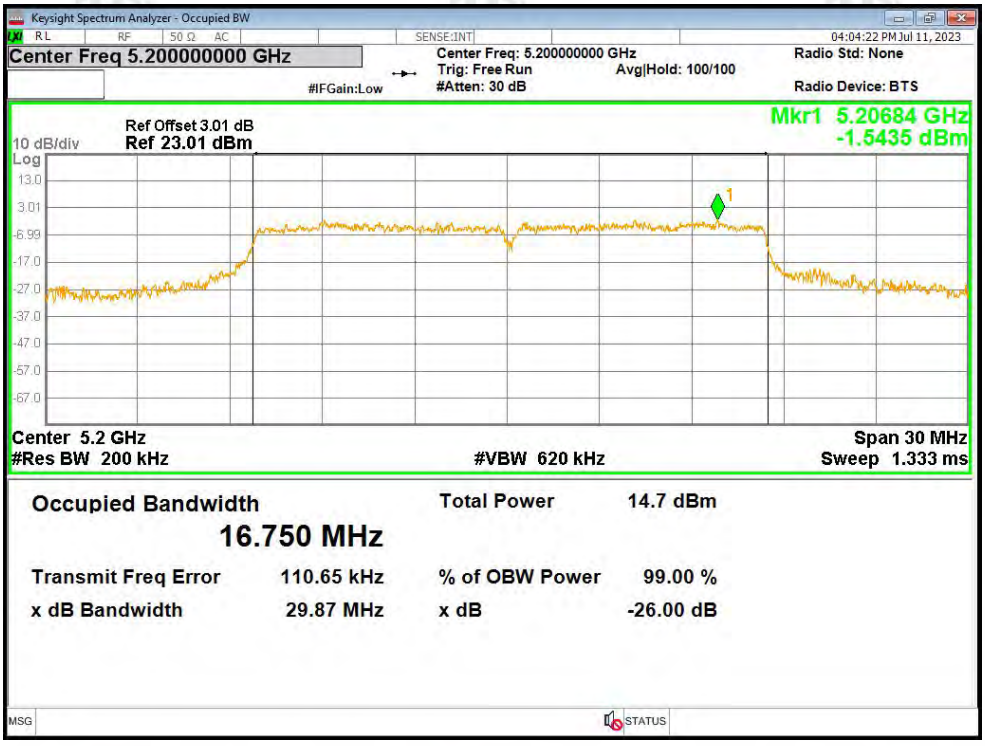
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.721
NVNT	a	5200	Ant1	16.75
NVNT	a	5240	Ant1	16.766
NVNT	n20	5180	Ant1	17.789
NVNT	n20	5200	Ant1	17.785
NVNT	n20	5240	Ant1	17.808
NVNT	n40	5190	Ant1	36.422
NVNT	n40	5230	Ant1	36.471
NVNT	ac40	5190	Ant1	36.537
NVNT	ac40	5230	Ant1	38.23
NVNT	ac80	5210	Ant1	75.989
NVNT	ac20	5180	Ant1	17.772
NVNT	ac20	5200	Ant1	17.786
NVNT	ac20	5240	Ant1	17.812

Test Graphs

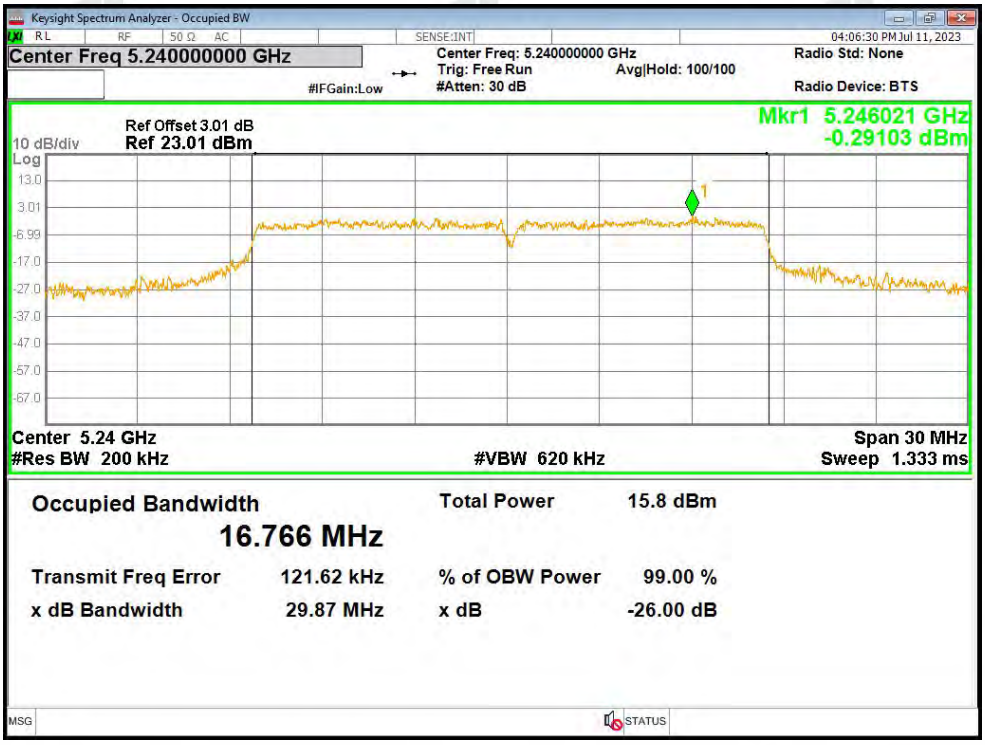
OBW NVNT a 5180MHz Ant1



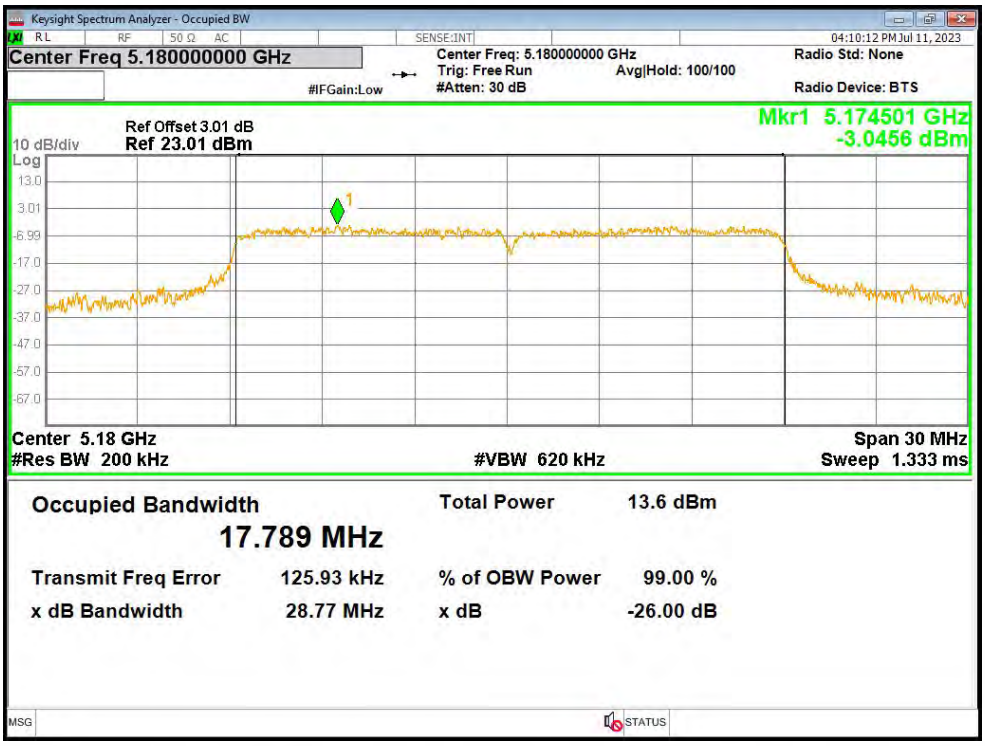
OBW NVNT a 5200MHz Ant1



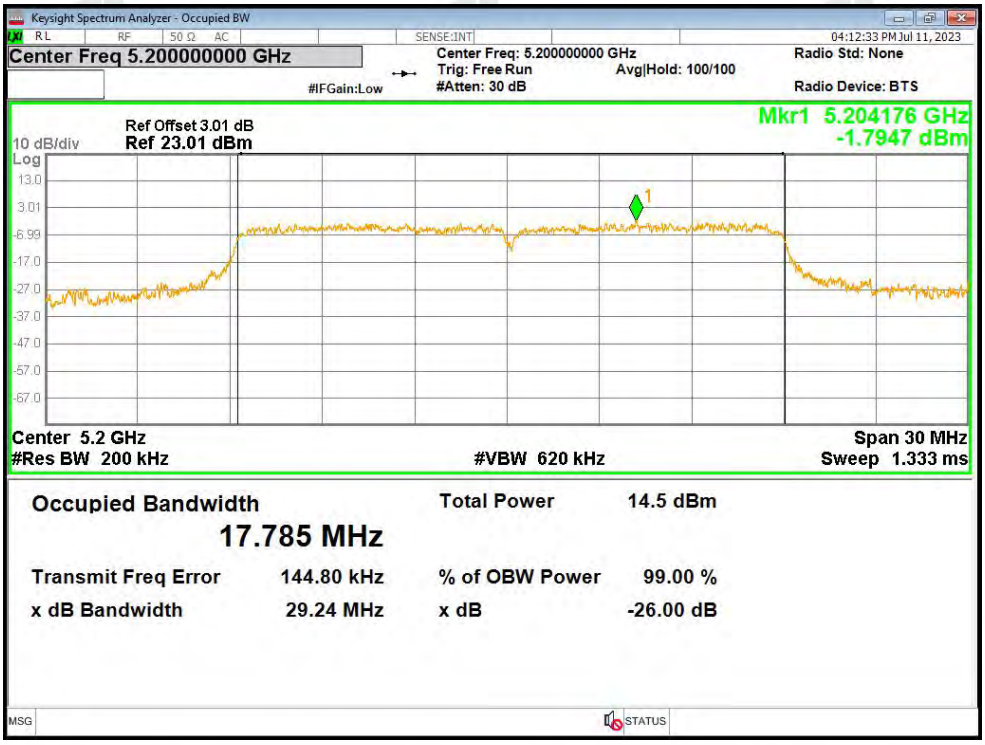
OBW NVNT a 5240MHz Ant1



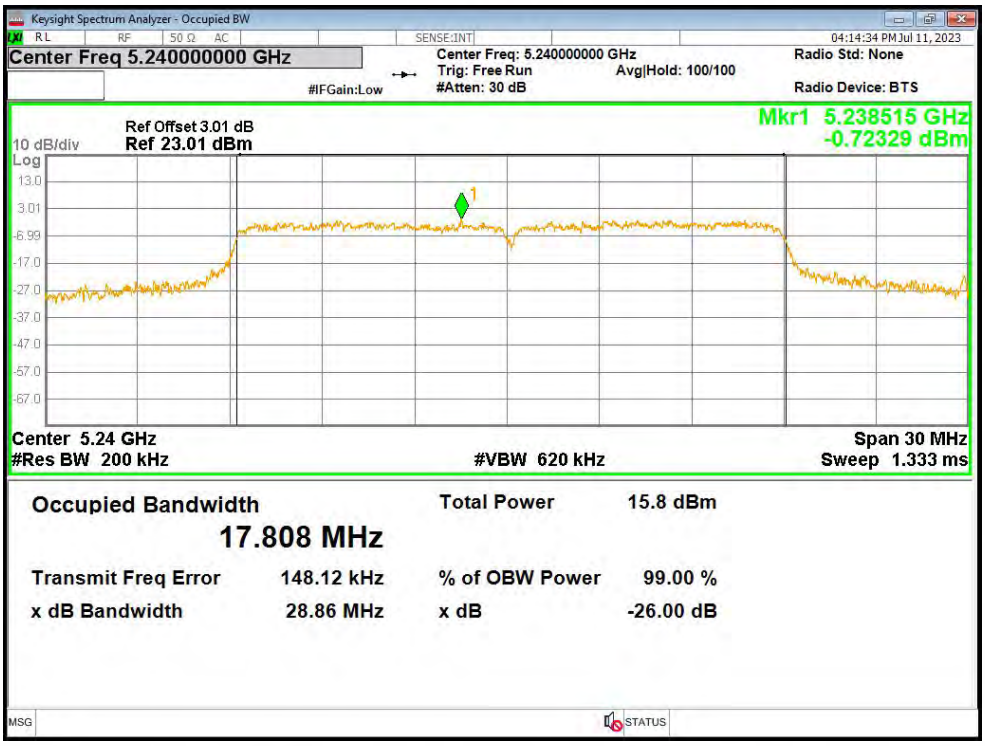
OBW NVNT n20 5180MHz Ant1



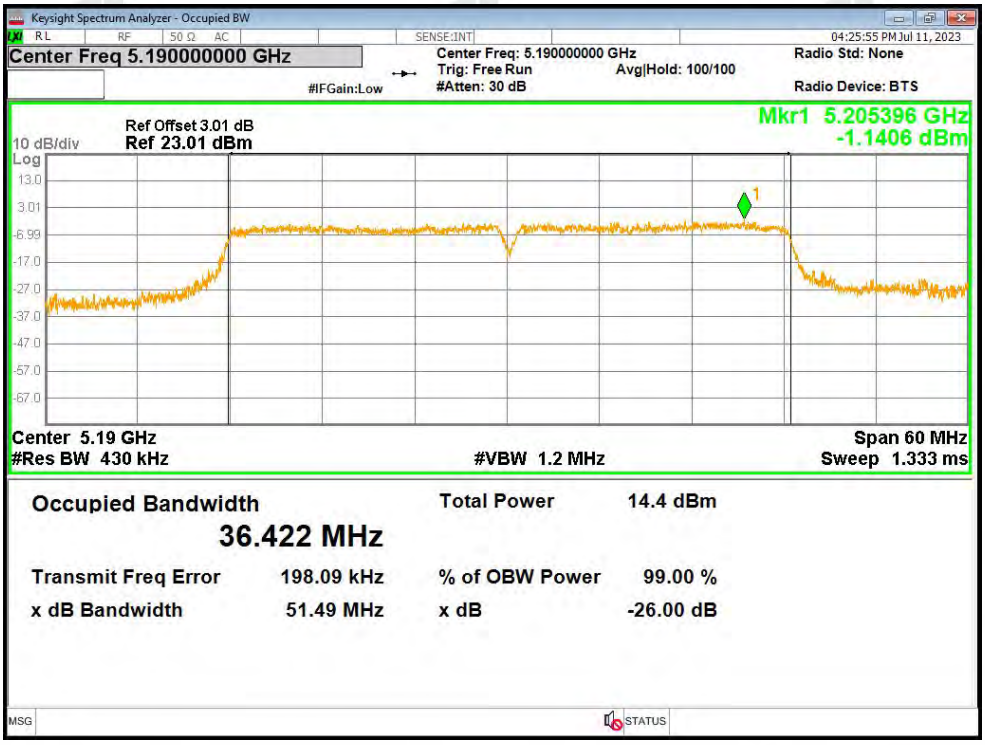
OBW NVNT n20 5200MHz Ant1



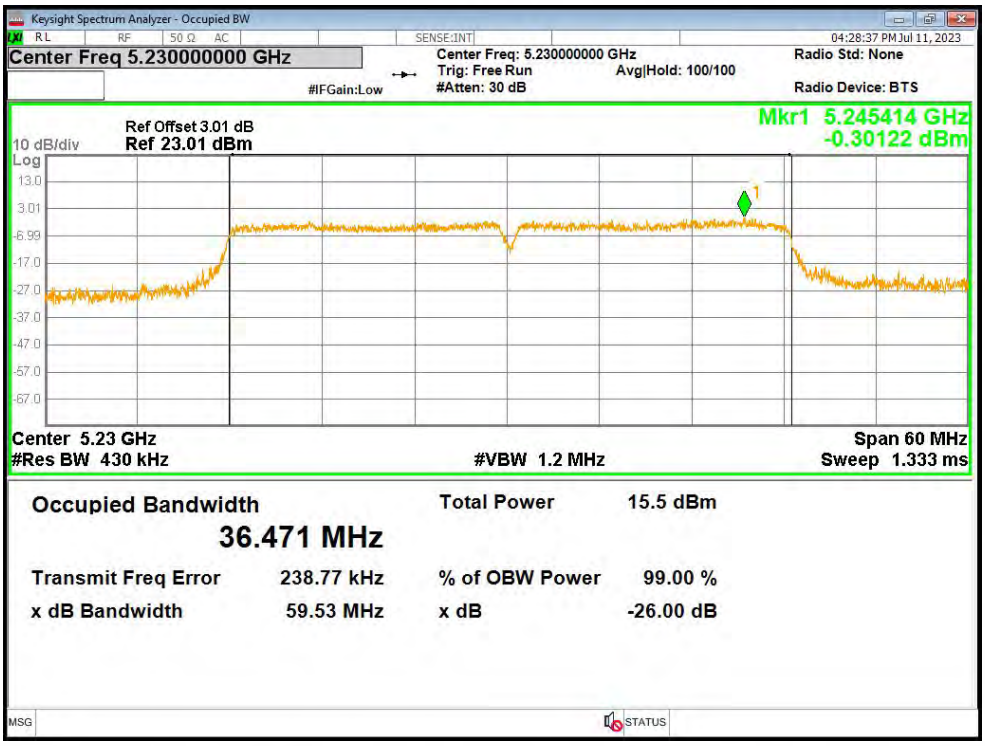
OBW NVNT n20 5240MHz Ant1



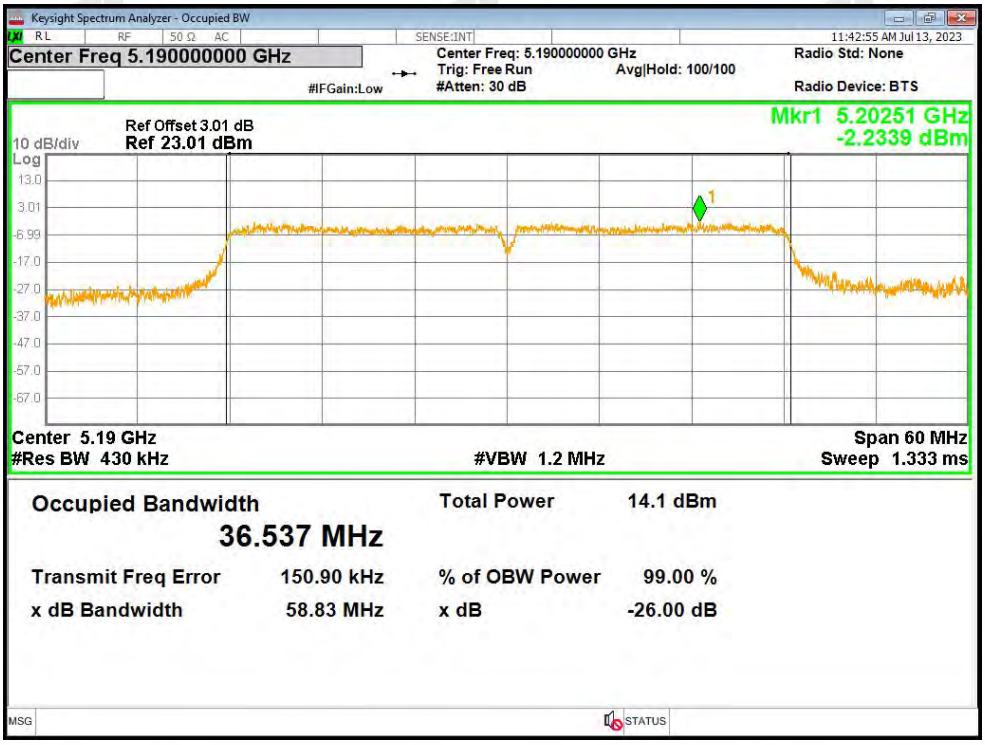
OBW NVNT n40 5190MHz Ant1



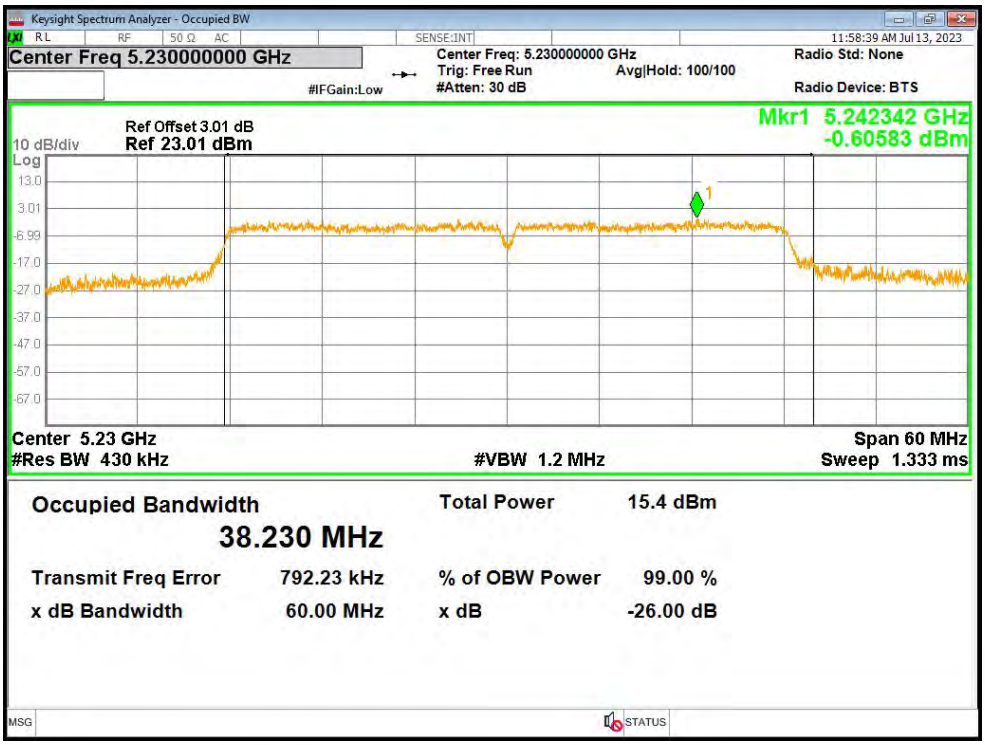
OBW NVNT n40 5230MHz Ant1



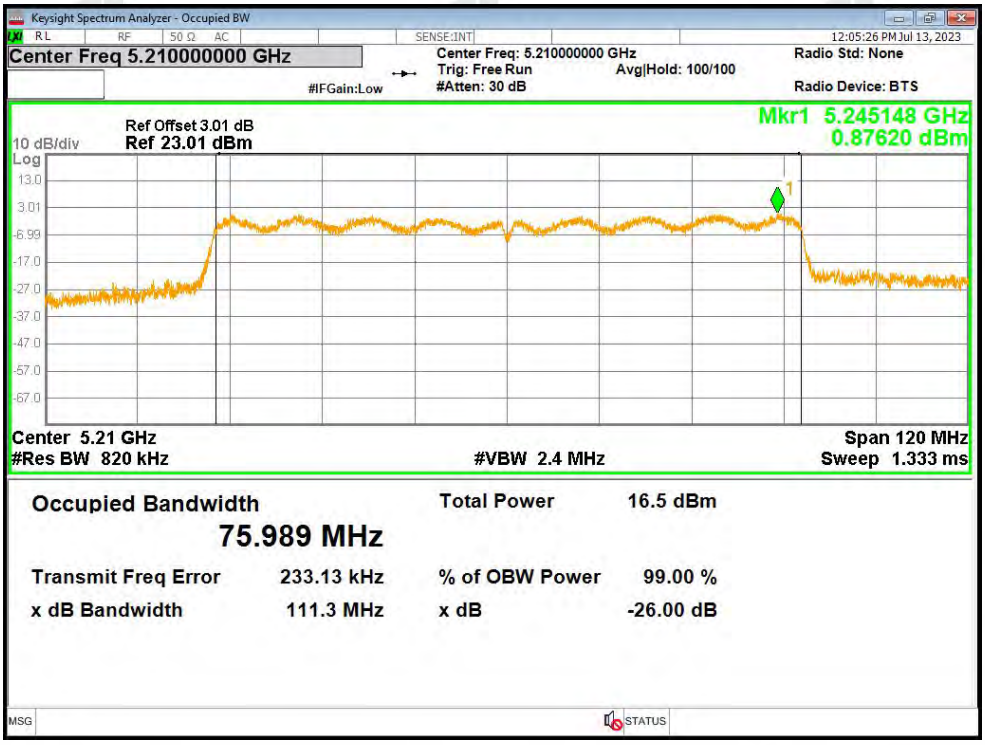
OBW NVNT ac40 5190MHz Ant1



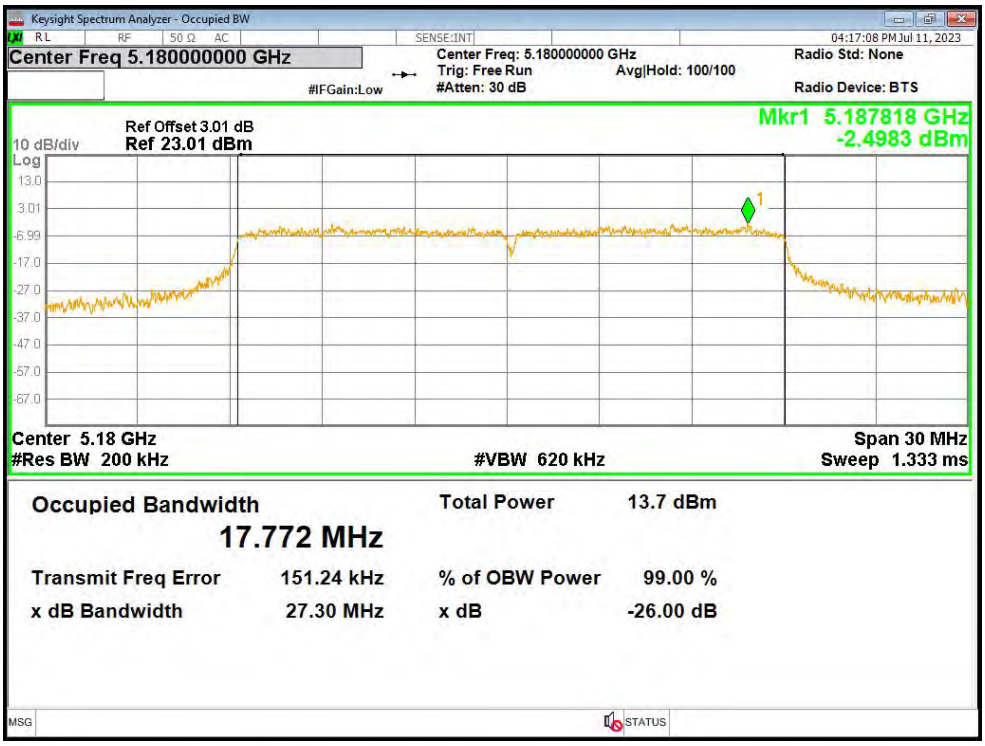
OBW NVNT ac40 5230MHz Ant1



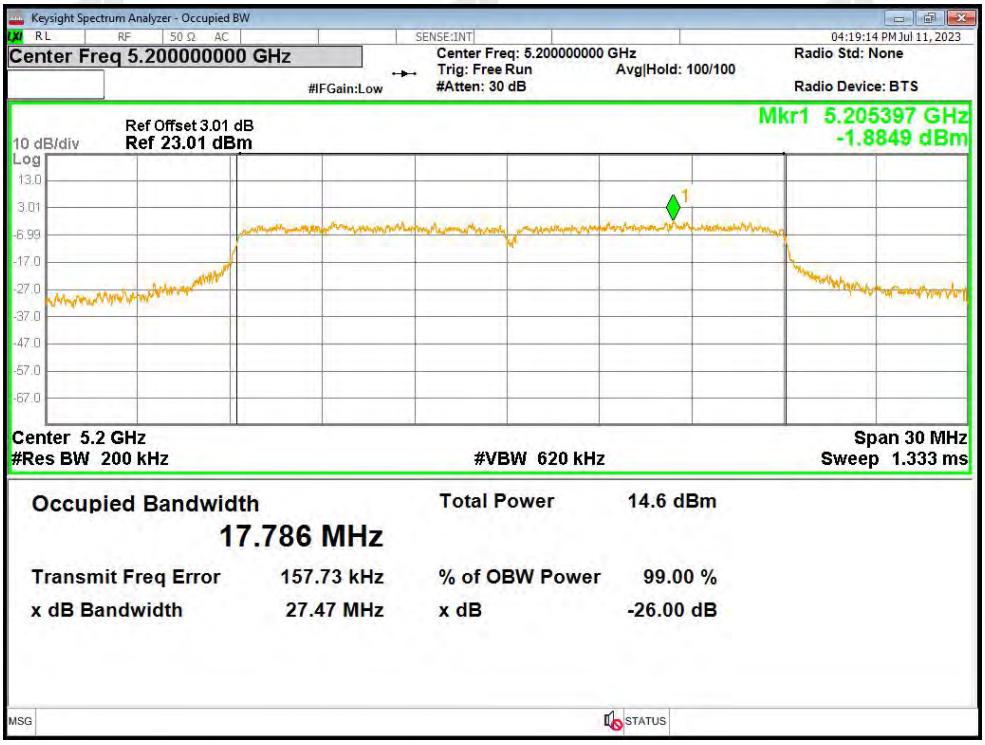
OBW NVNT ac80 5210MHz Ant1



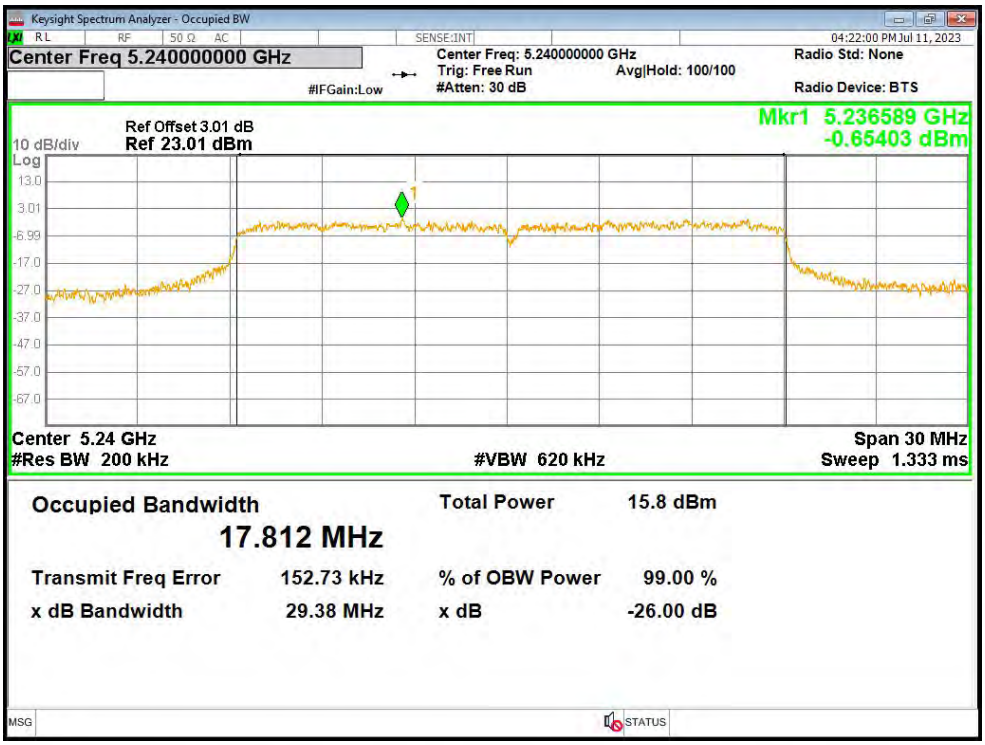
OBW NVNT ac20 5180MHz Ant1



OBW NVNT ac20 5200MHz Ant1



OBW NVNT ac20 5240MHz Ant1



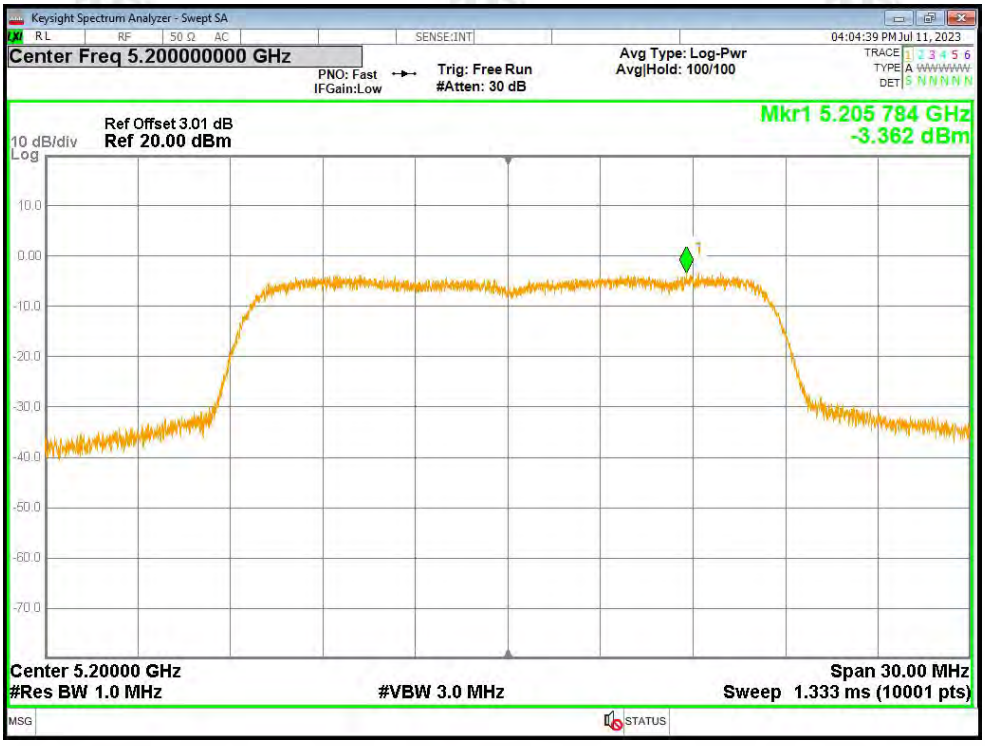
A.5 Macimum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.15	0	-4.15	11	Pass
NVNT	a	5200	Ant1	-3.36	0	-3.36	11	Pass
NVNT	a	5240	Ant1	-2.53	0	-2.53	11	Pass
NVNT	n20	5180	Ant1	-4.67	0	-4.67	11	Pass
NVNT	n20	5200	Ant1	-3.88	0	-3.88	11	Pass
NVNT	n20	5240	Ant1	-2.68	0	-2.68	11	Pass
NVNT	n40	5190	Ant1	-7.1	0	-7.1	11	Pass
NVNT	n40	5230	Ant1	-5.73	0	-5.73	11	Pass
NVNT	ac40	5190	Ant1	-7.51	0	-7.51	11	Pass
NVNT	ac40	5230	Ant1	-6.29	0	-6.29	11	Pass
NVNT	ac80	5210	Ant1	-7.55	0	-7.55	11	Pass
NVNT	ac20	5180	Ant1	-4.94	0	-4.94	11	Pass
NVNT	ac20	5200	Ant1	-4.17	0	-4.17	11	Pass
NVNT	ac20	5240	Ant1	-2.63	0	-2.63	11	Pass

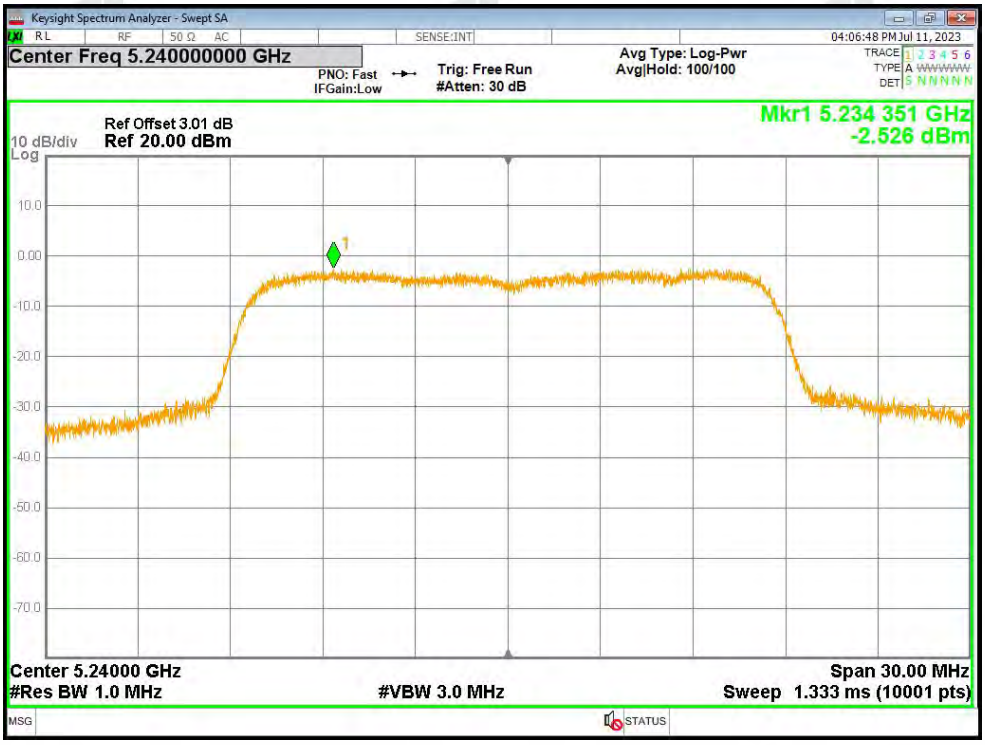
Test Graphs

PSD NVNT a 5180MHz Ant1

PSD NVNT a 5200MHz Ant1



PSD NVNT a 5240MHz Ant1

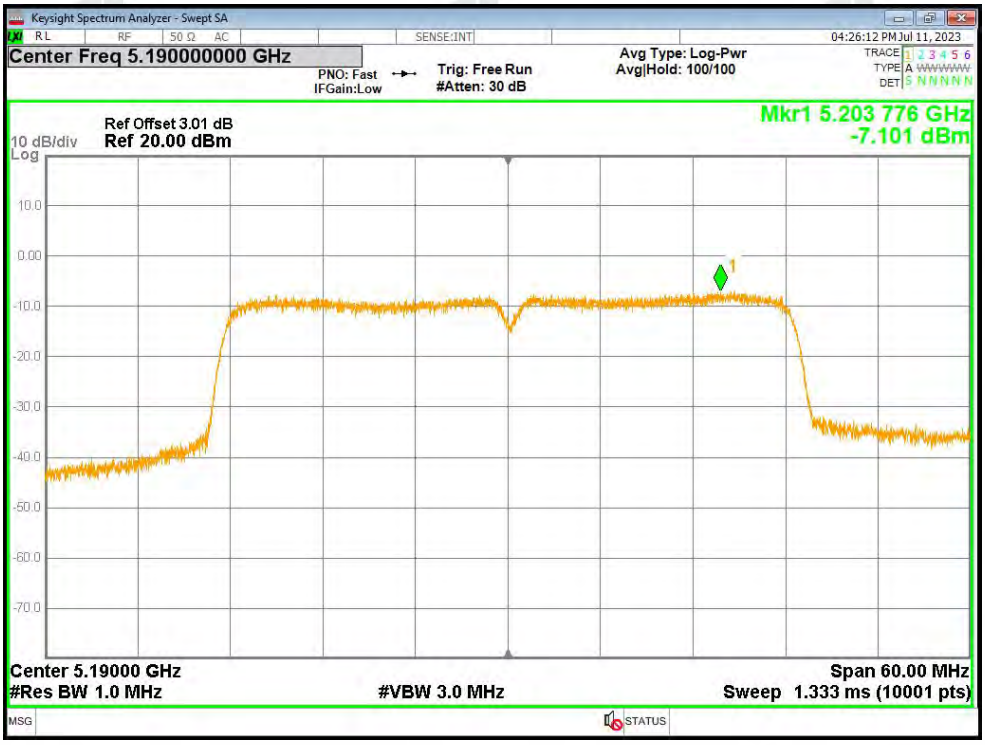


PSD NVNT n20 5180MHz Ant1

PSD NVNT n20 5200MHz Ant1

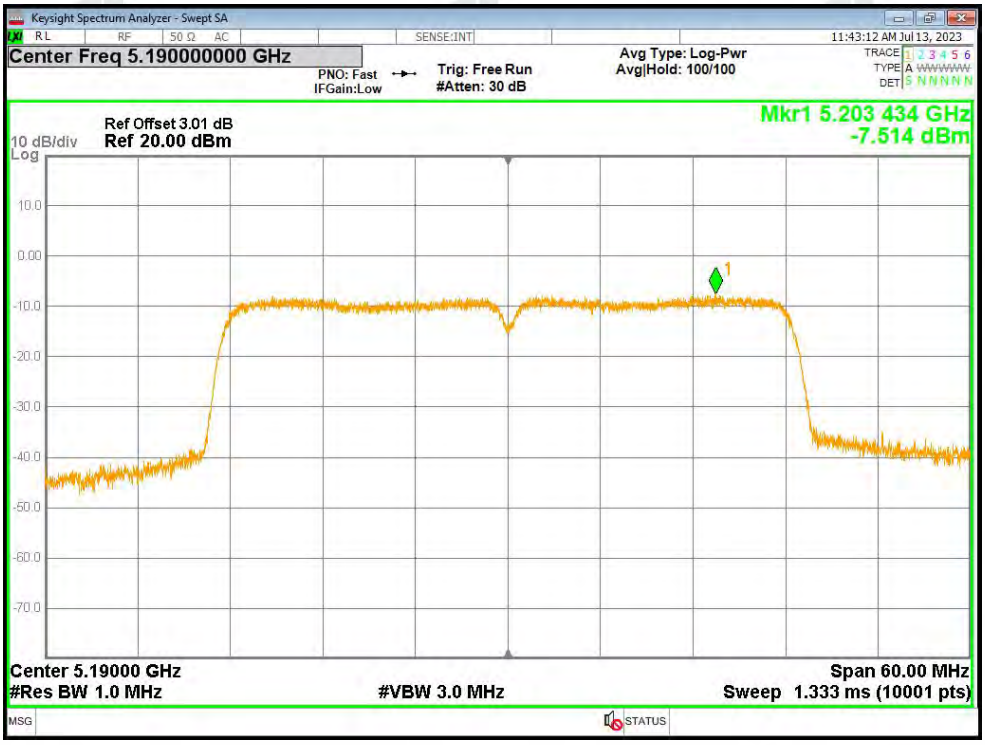
PSD NVNT n20 5240MHz Ant1

PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

PSD NVNT ac40 5190MHz Ant1



PSD NVNT ac40 5230MHz Ant1

PSD NVNT ac80 5210MHz Ant1

PSD NVNT ac20 5180MHz Ant1