

Appendix B for 5GWIFI Test Data

Product Name: Car Stereo multimedia player

Test Model: NV-BG6E-P6JT

Environmental Conditions

Temperature:	23.8℃
Relative Humidity:	52%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu

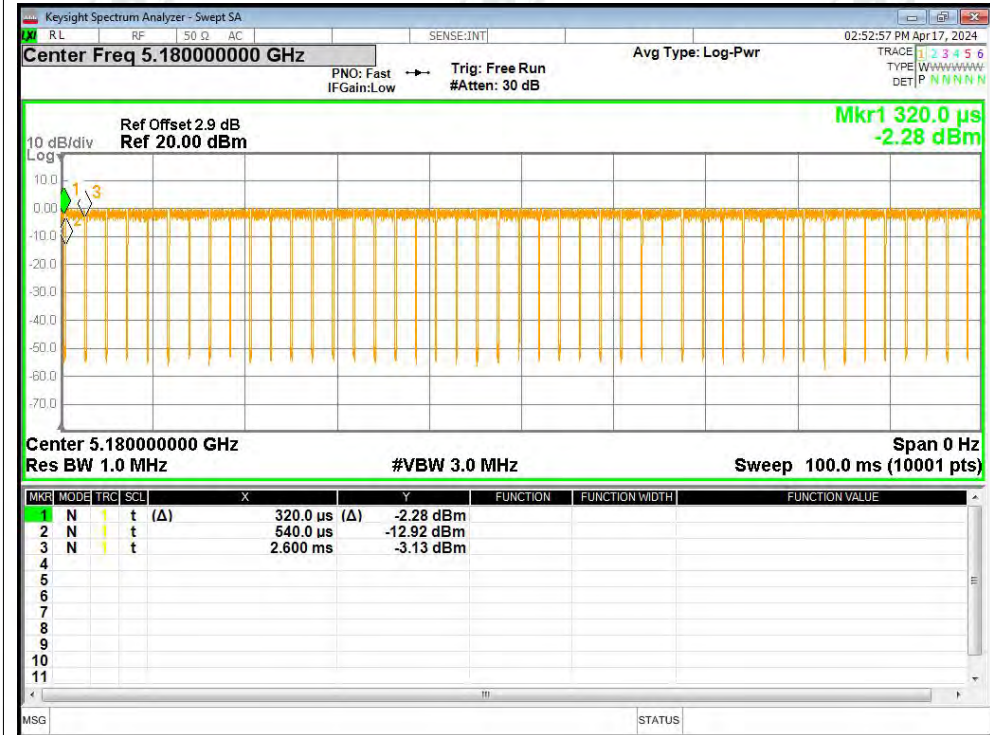


A1. Duty Cycle

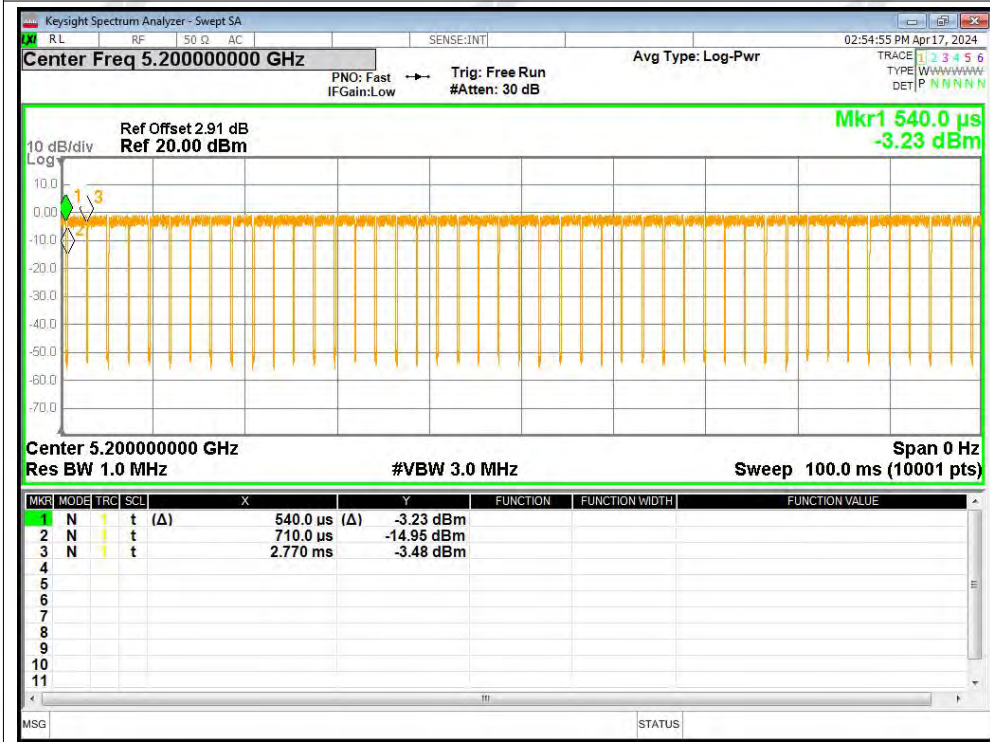
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	90.35	0.44	0.49
NVNT	a	5200	Ant1	92.38	0.34	0.49
NVNT	a	5240	Ant1	90.35	0.44	0.49
NVNT	n20	5180	Ant1	90.14	0.45	0.52
NVNT	n20	5200	Ant1	89.72	0.47	0.52
NVNT	n20	5240	Ant1	94.12	0.26	0.52
NVNT	n40	5190	Ant1	83.78	0.77	1.08
NVNT	n40	5230	Ant1	88.68	0.52	1.06
NVNT	ac20	5180	Ant1	84.08	0.75	0.49
NVNT	ac20	5200	Ant1	84.77	0.72	0.49
NVNT	ac20	5240	Ant1	84.15	0.75	0.48
NVNT	ac40	5190	Ant1	50	3.01	50
NVNT	ac40	5230	Ant1	50	3.01	50
NVNT	ac80	5210	Ant1	60	2.22	33.33

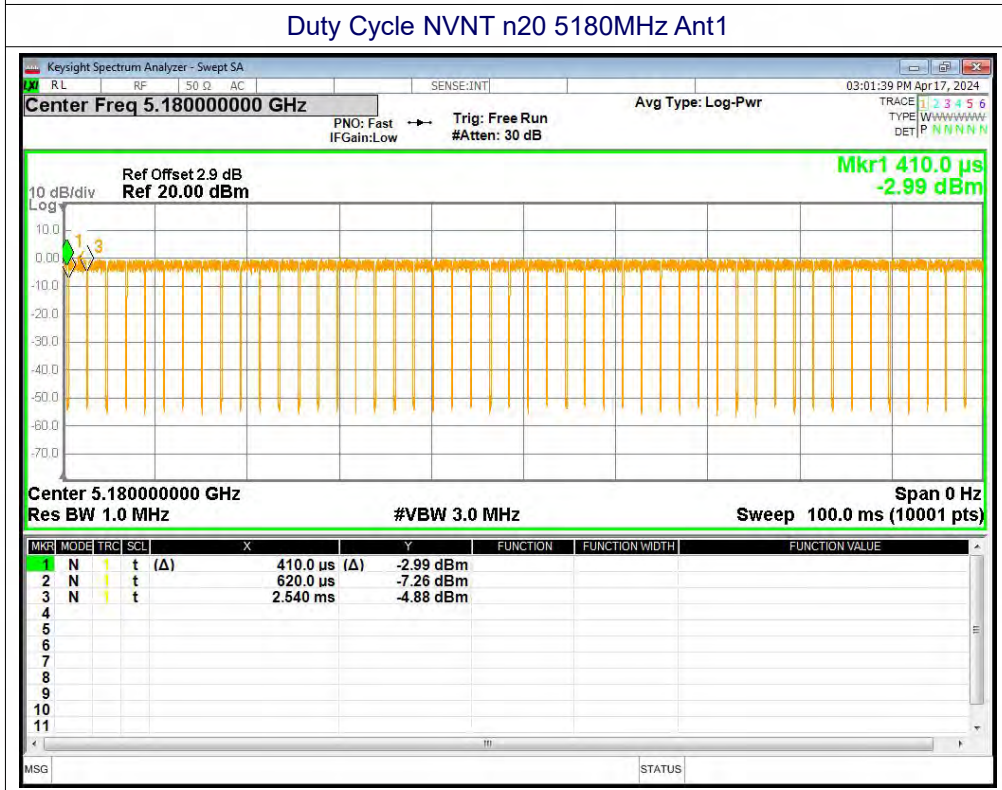
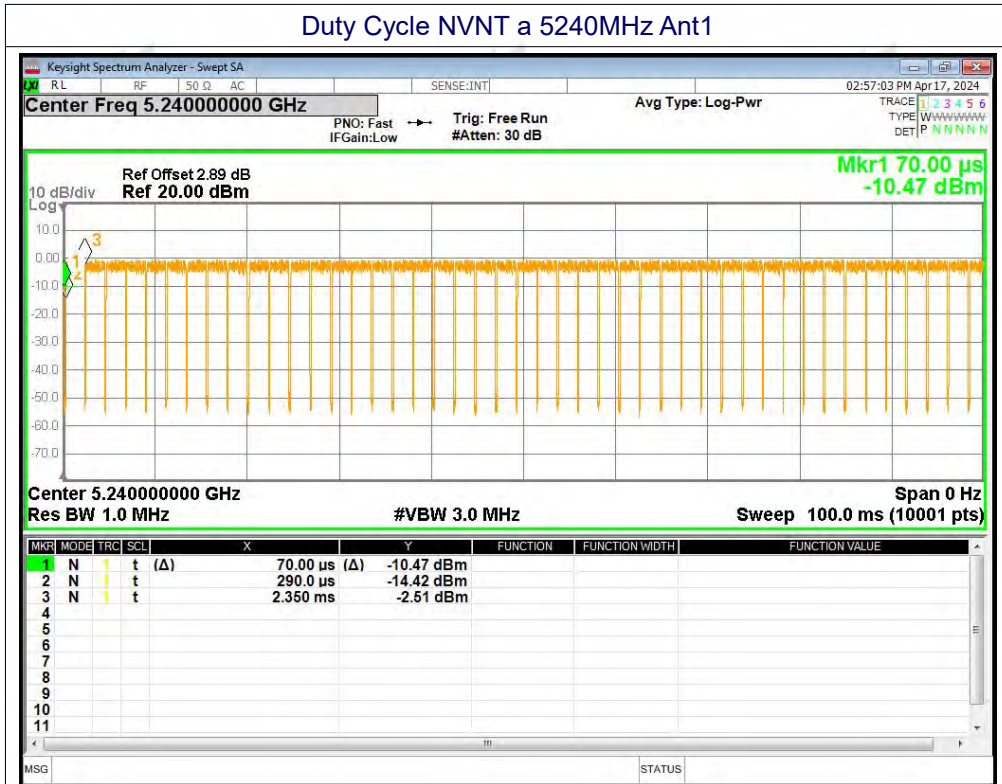
Test Graphs

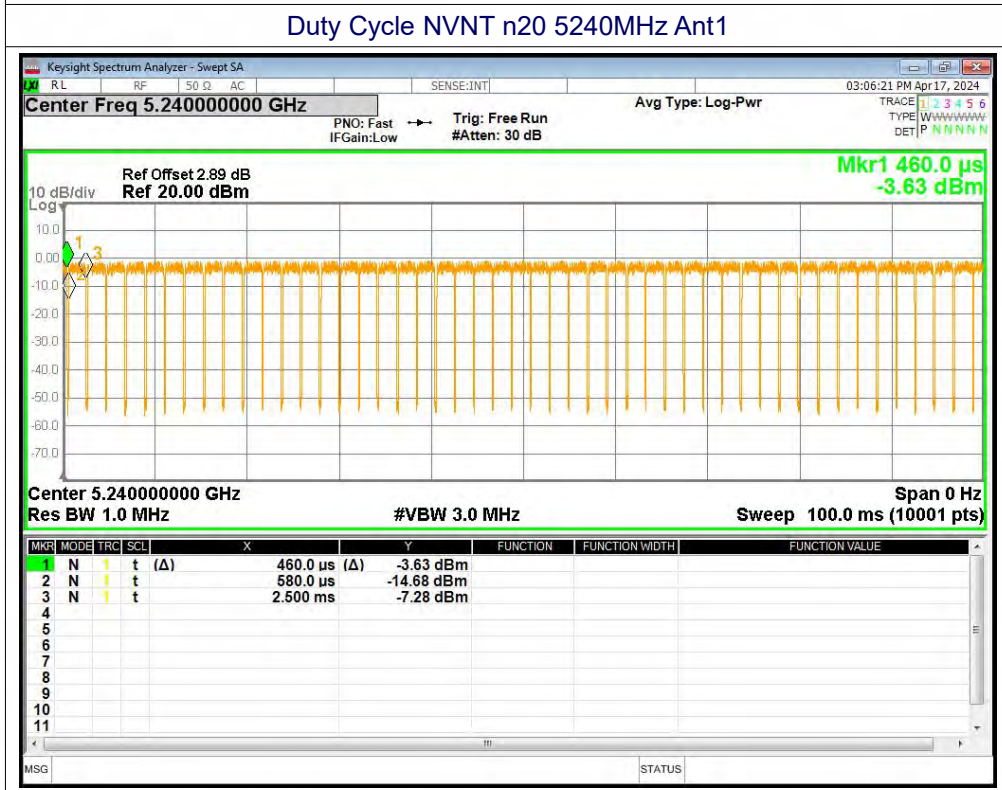
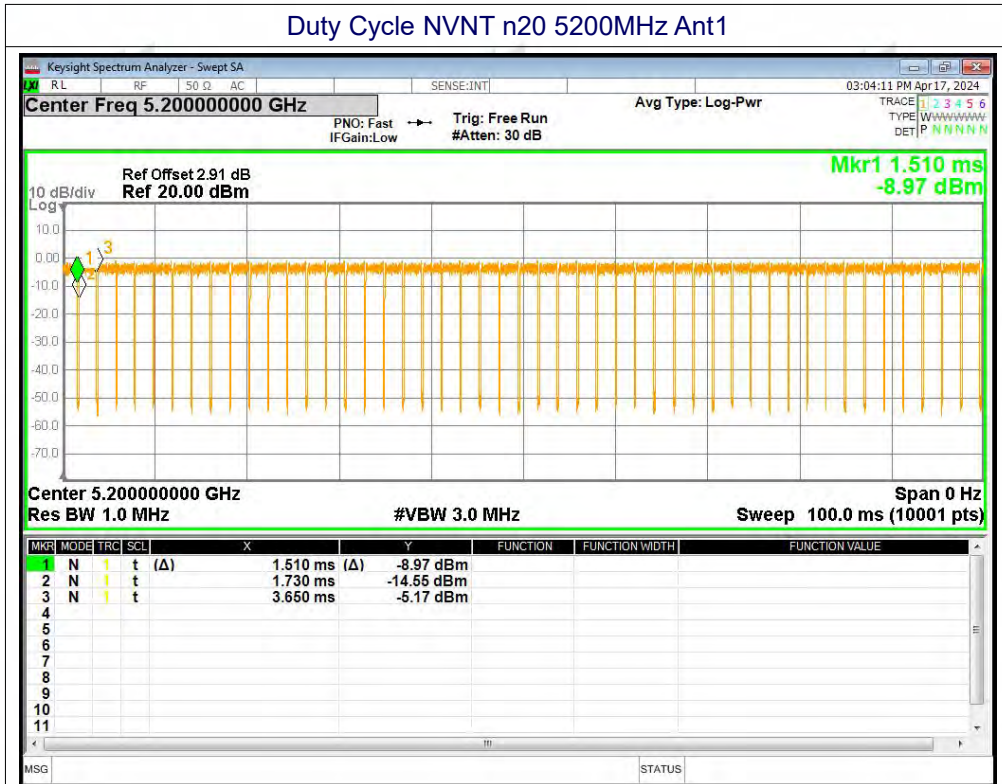
Duty Cycle NVNT a 5180MHz Ant1

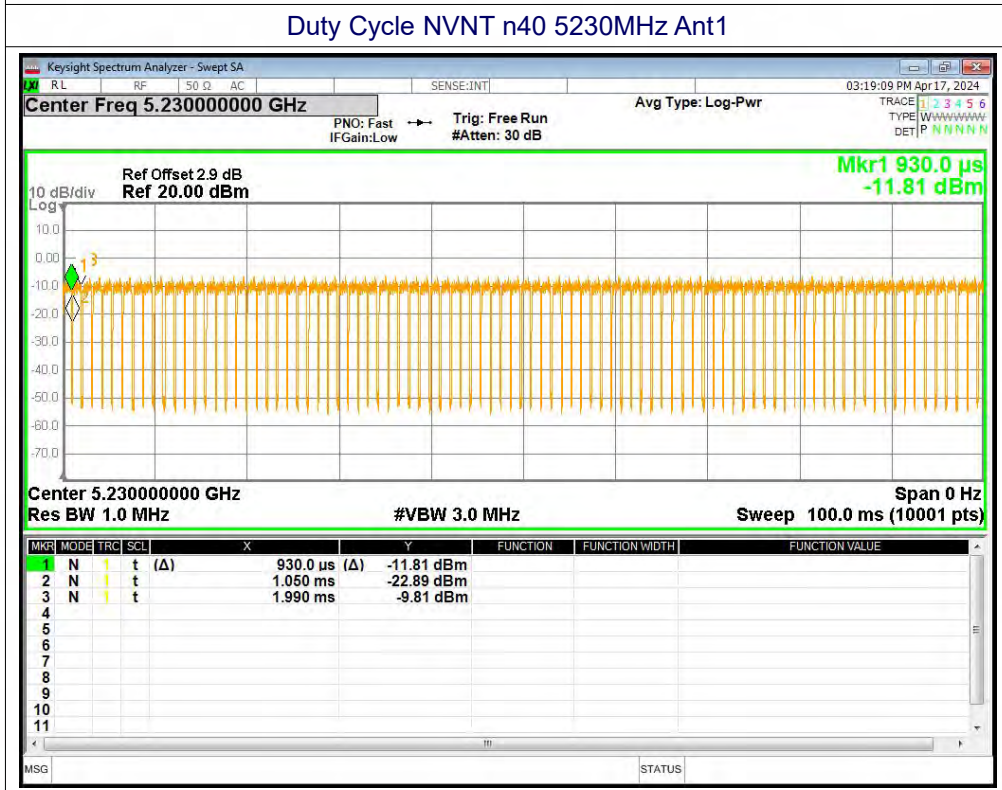
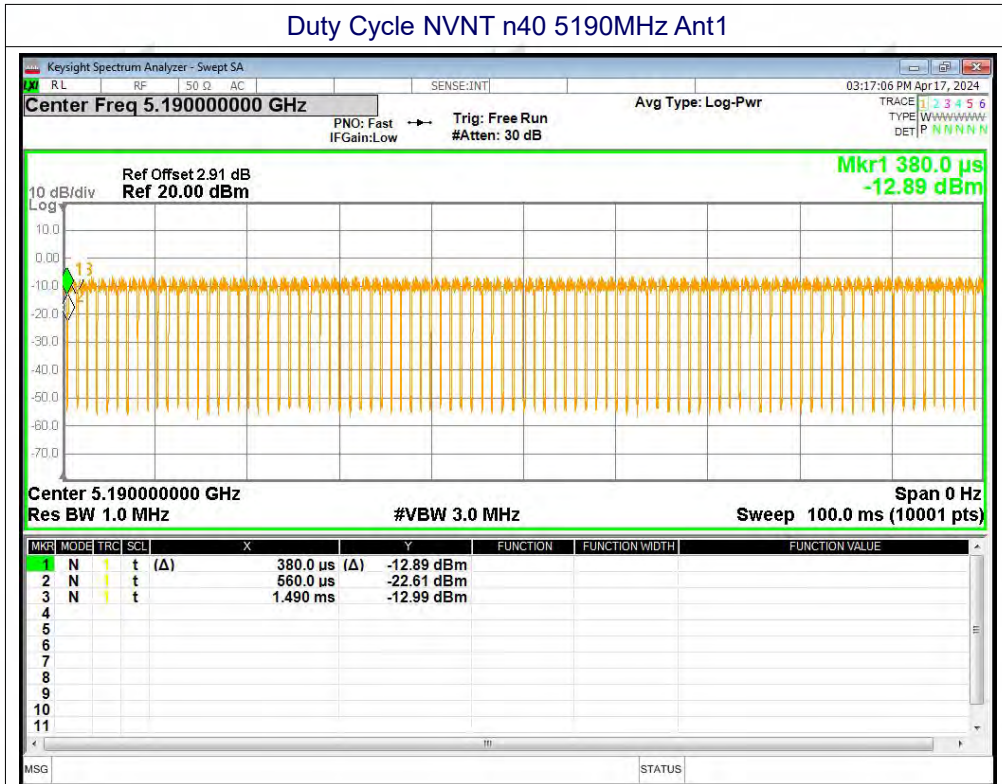


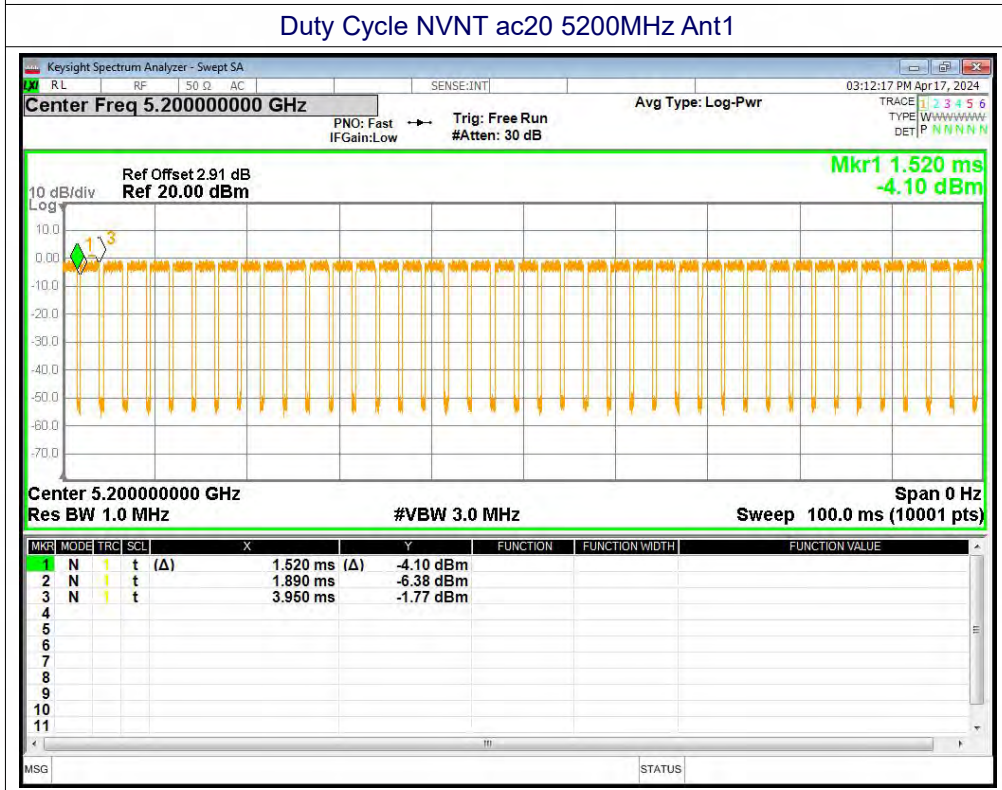
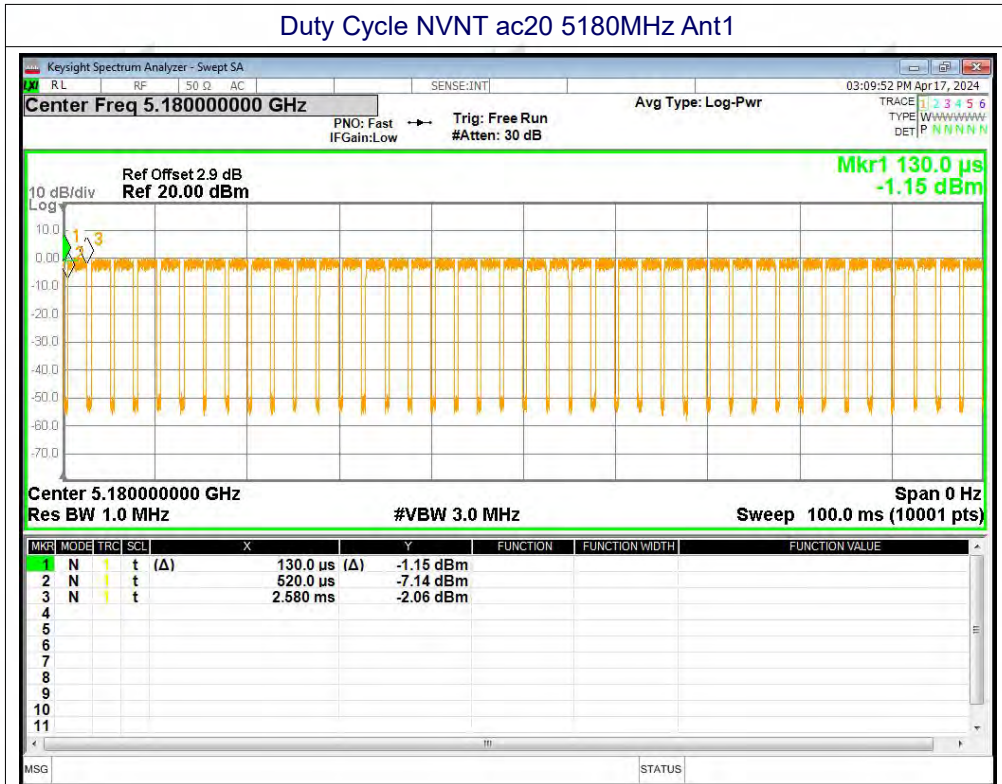
Duty Cycle NVNT a 5200MHz Ant1



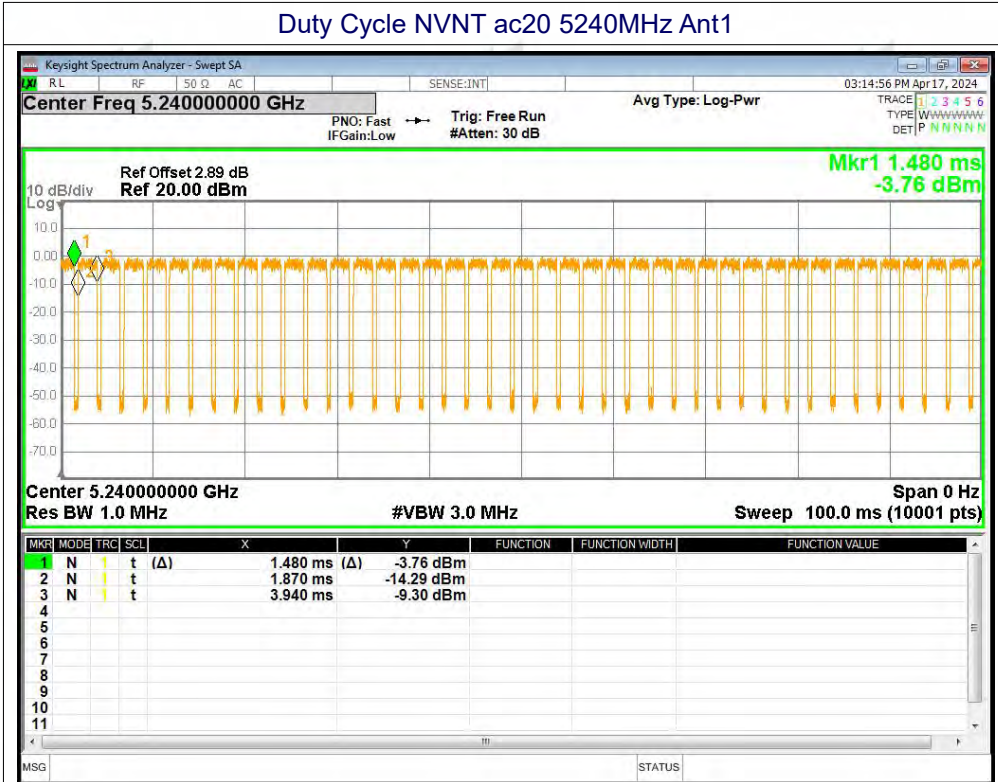




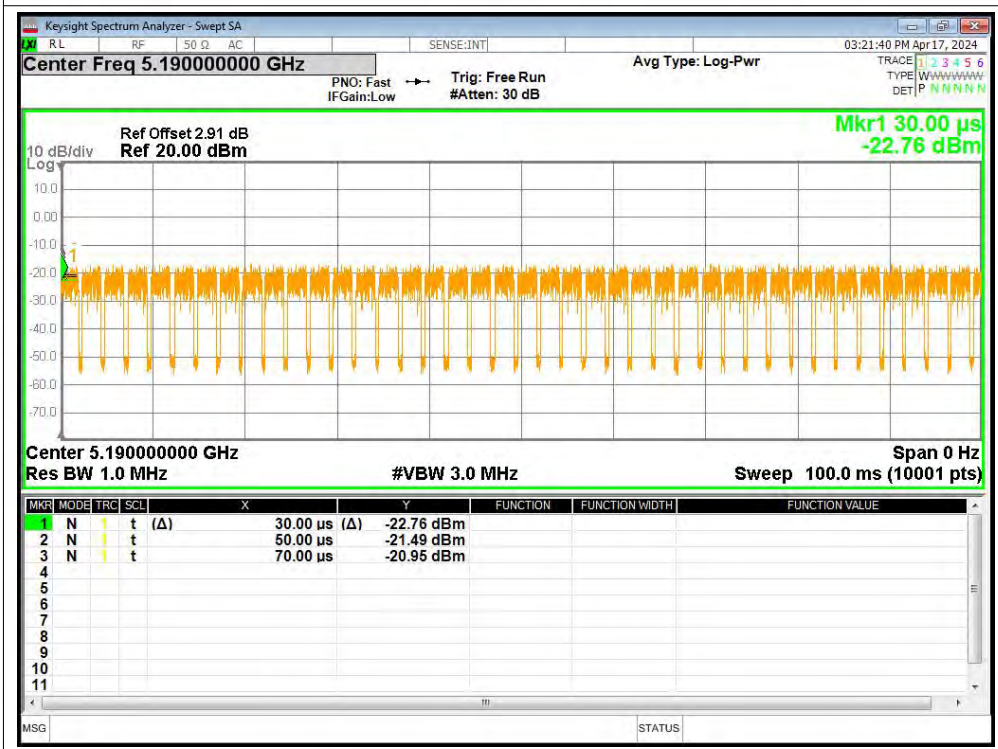


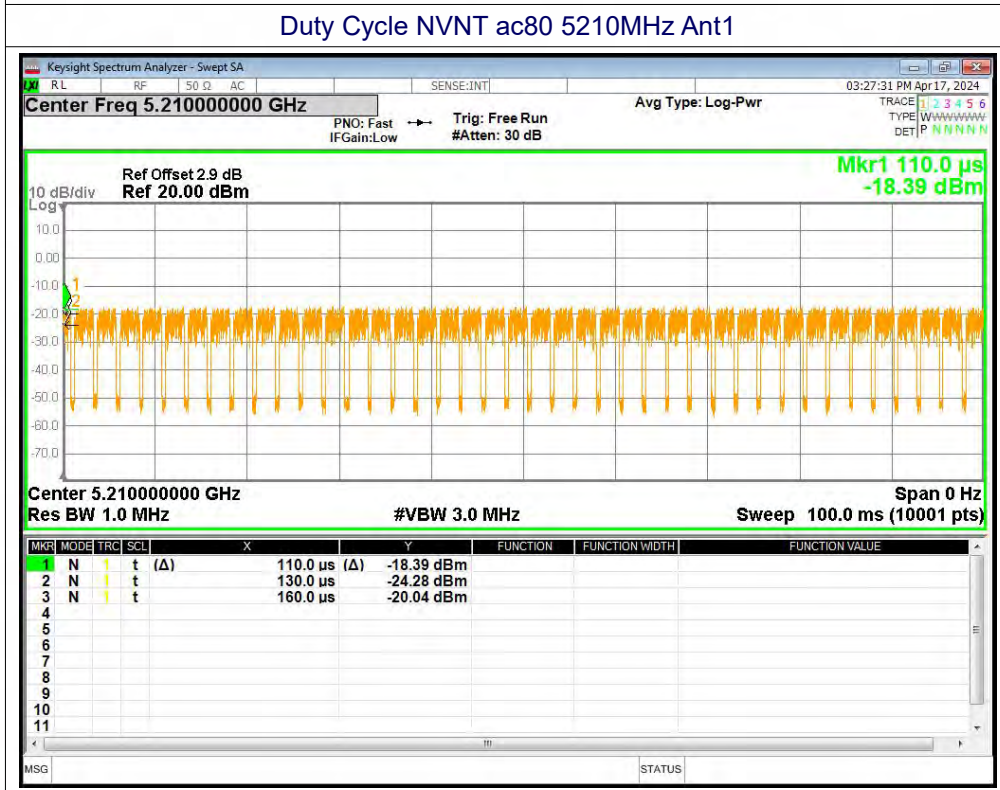
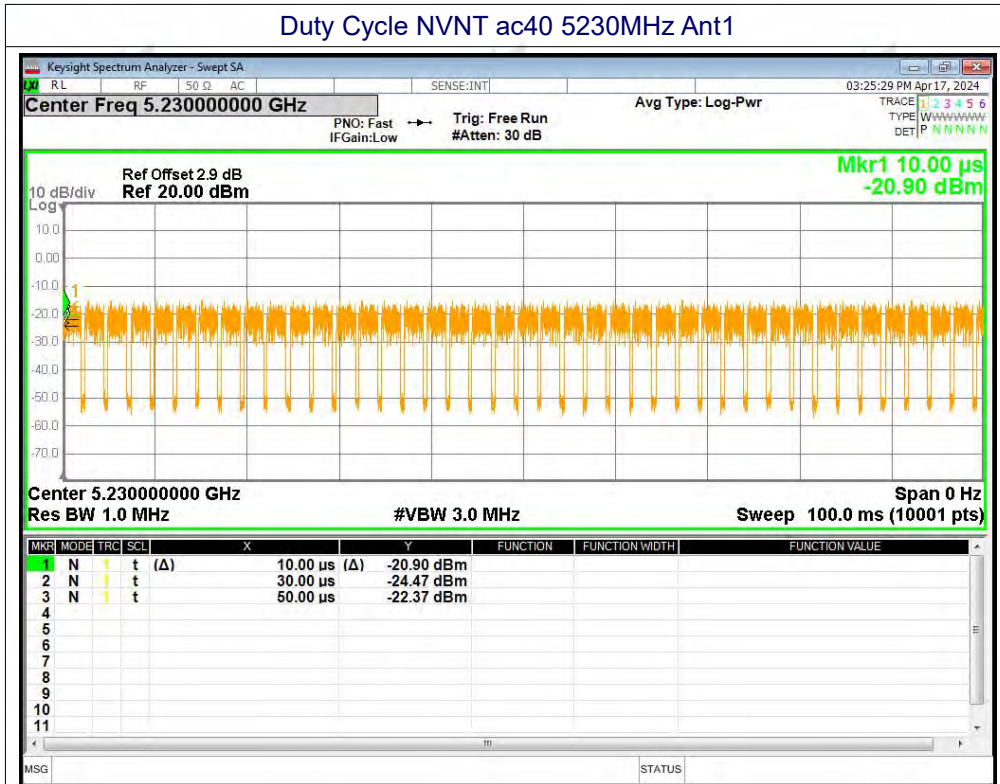


Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1





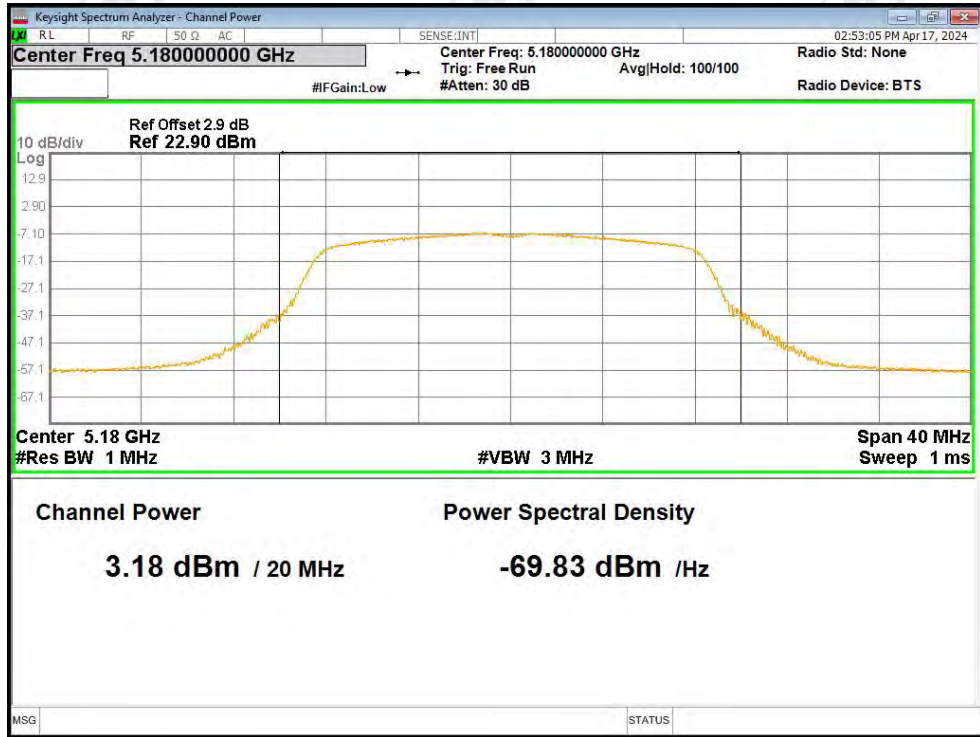


A2. Maximum Conducted Output Power

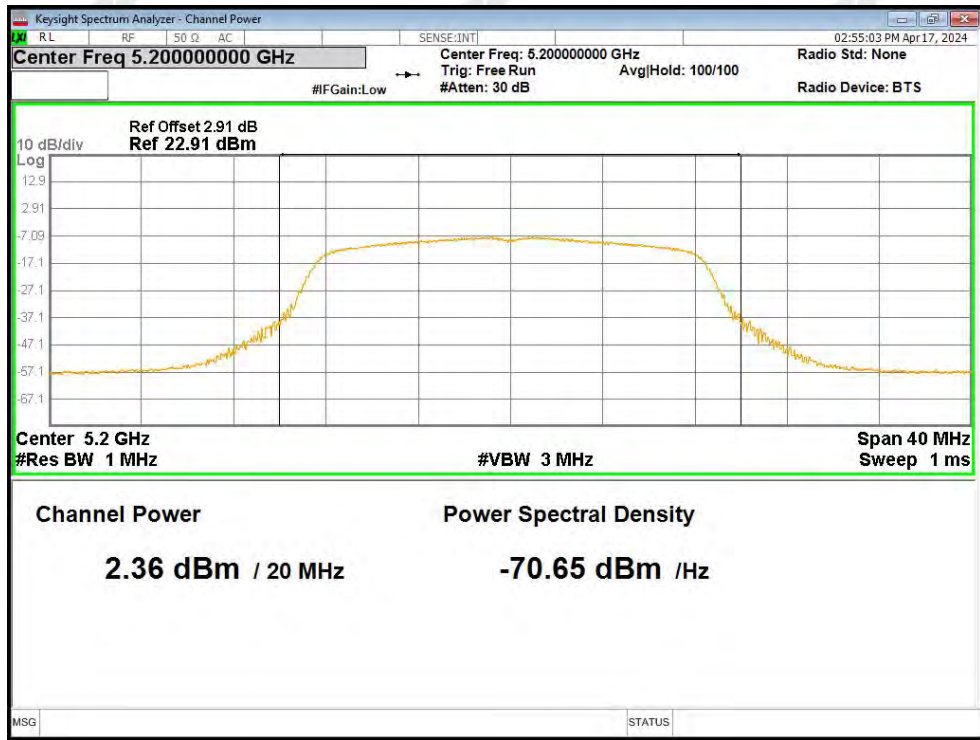
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	3.18	0.44	3.62	24	Pass
NVNT	a	5200	Ant1	2.36	0.34	2.7	24	Pass
NVNT	a	5240	Ant1	2.15	0.44	2.59	24	Pass
NVNT	n20	5180	Ant1	2.54	0.45	2.99	24	Pass
NVNT	n20	5200	Ant1	1.66	0.47	2.13	24	Pass
NVNT	n20	5240	Ant1	1.91	0.26	2.17	24	Pass
NVNT	n40	5190	Ant1	1.74	0.77	2.51	24	Pass
NVNT	n40	5230	Ant1	1.42	0.52	1.94	24	Pass
NVNT	ac20	5180	Ant1	2.23	0.75	2.98	24	Pass
NVNT	ac20	5200	Ant1	1.84	0.72	2.56	24	Pass
NVNT	ac20	5240	Ant1	1.6	0.75	2.35	24	Pass
NVNT	ac40	5190	Ant1	1.55	3.01	4.56	24	Pass
NVNT	ac40	5230	Ant1	2.05	3.01	5.06	24	Pass
NVNT	ac80	5210	Ant1	1.64	2.22	3.86	24	Pass

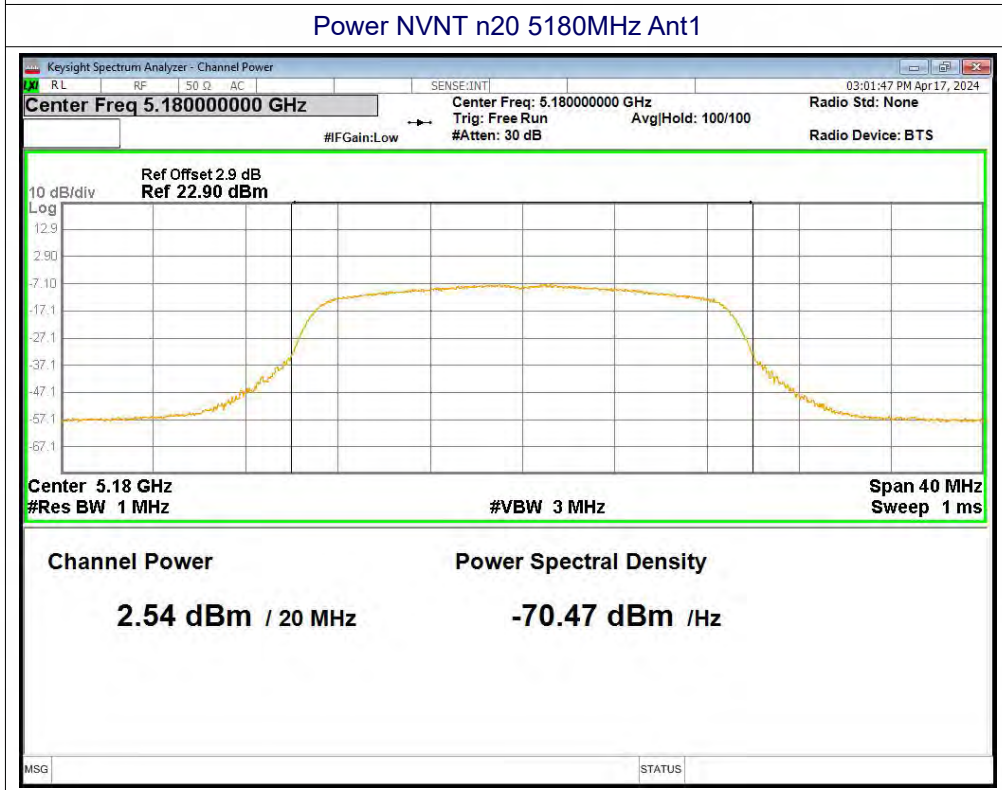
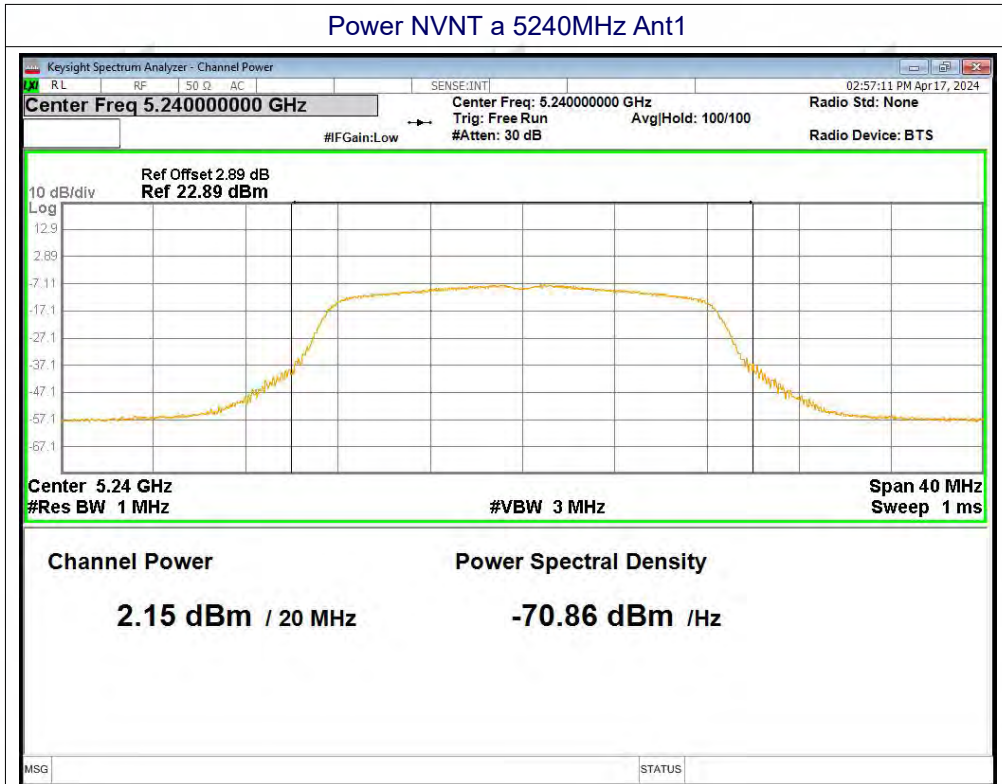
Test Graphs

Power NVNT a 5180MHz Ant1

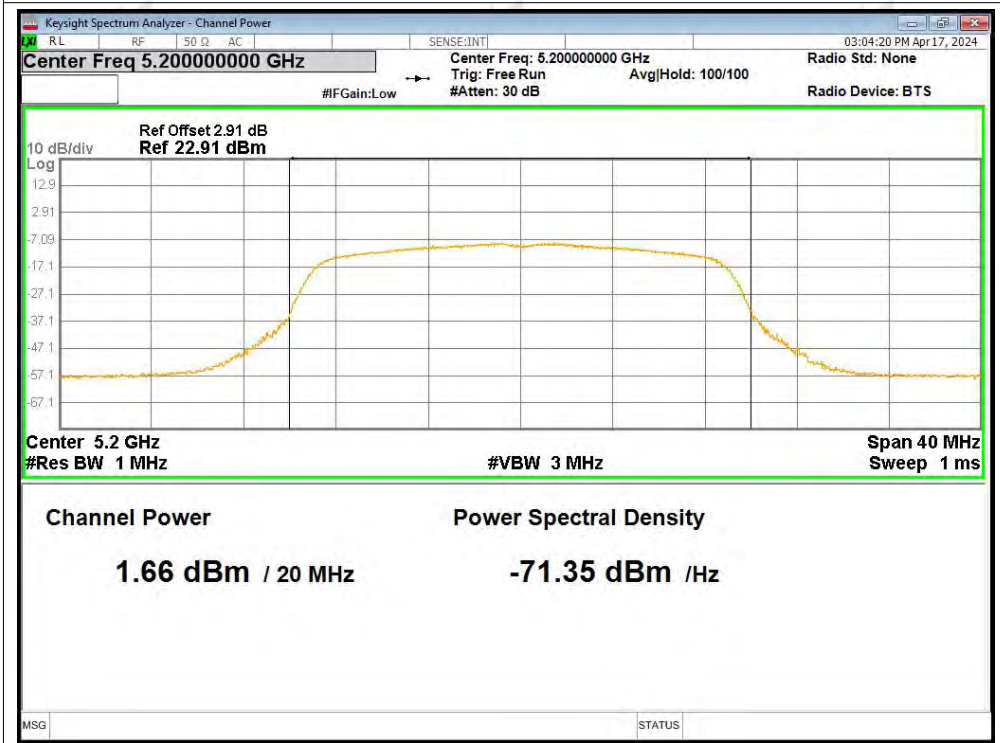


Power NVNT a 5200MHz Ant1

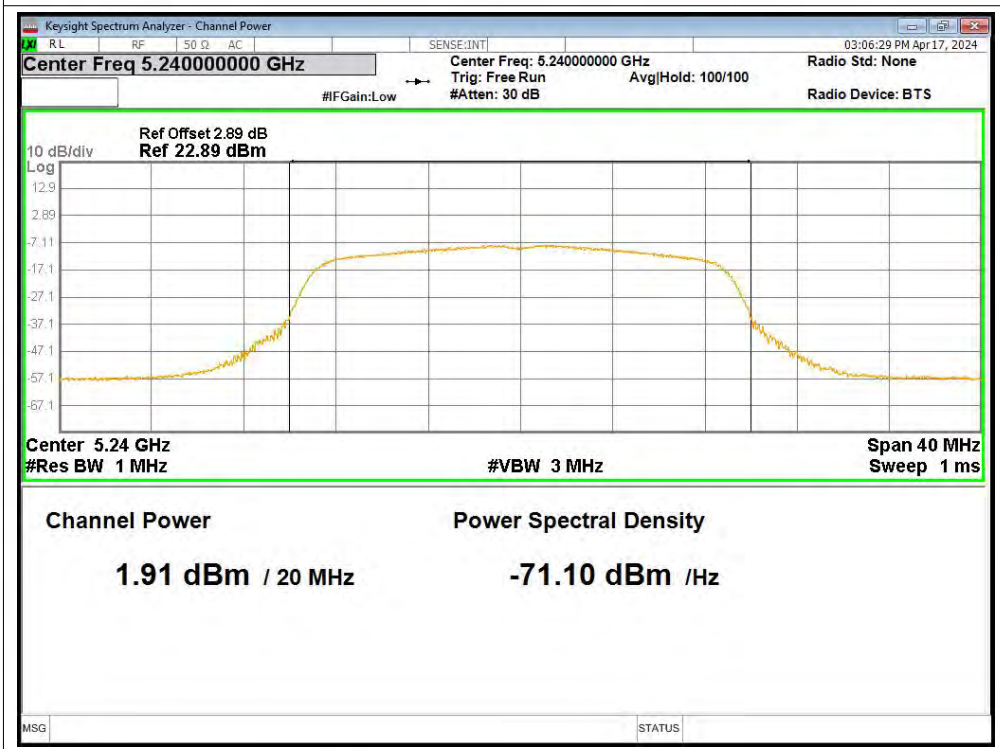




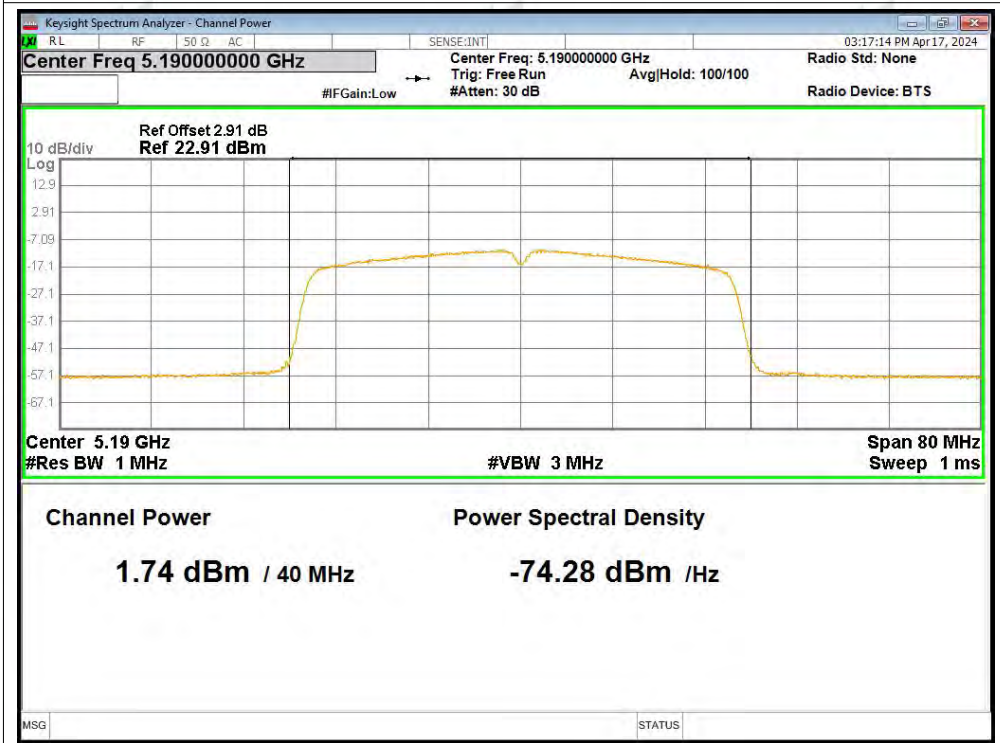
Power NVNT n20 5200MHz Ant1



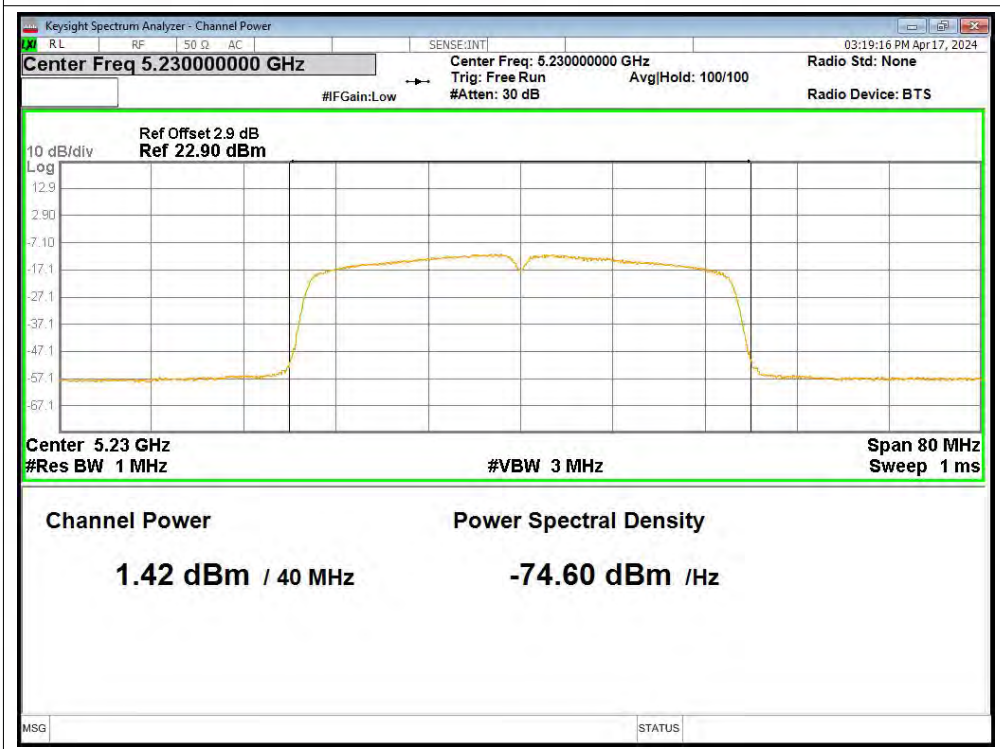
Power NVNT n20 5240MHz Ant1



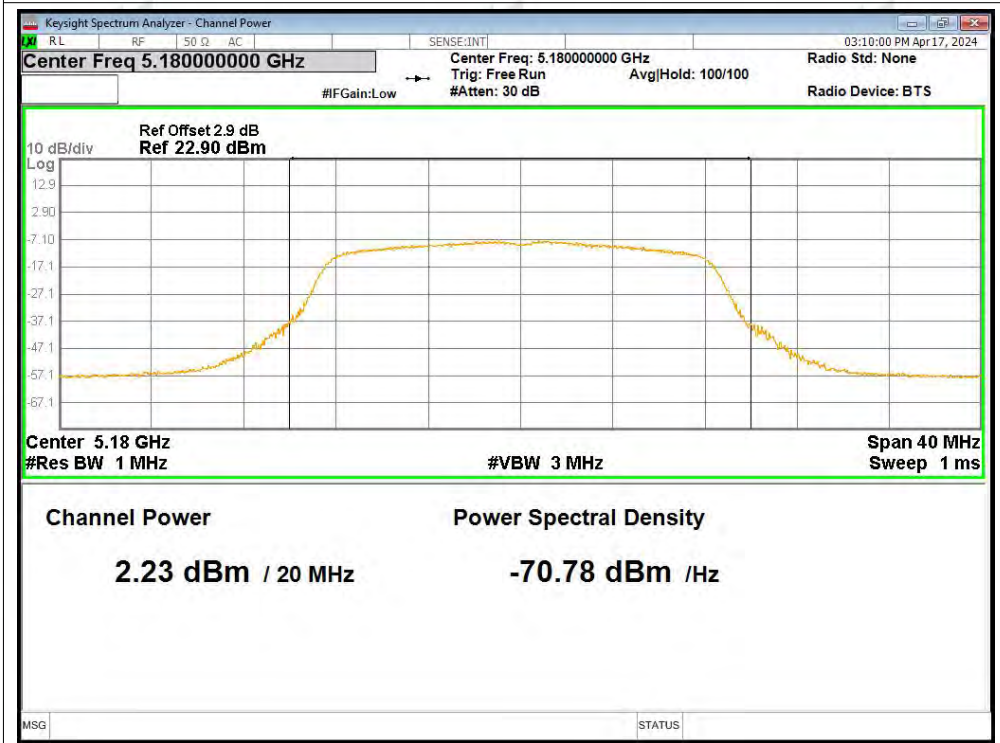
Power NVNT n40 5190MHz Ant1



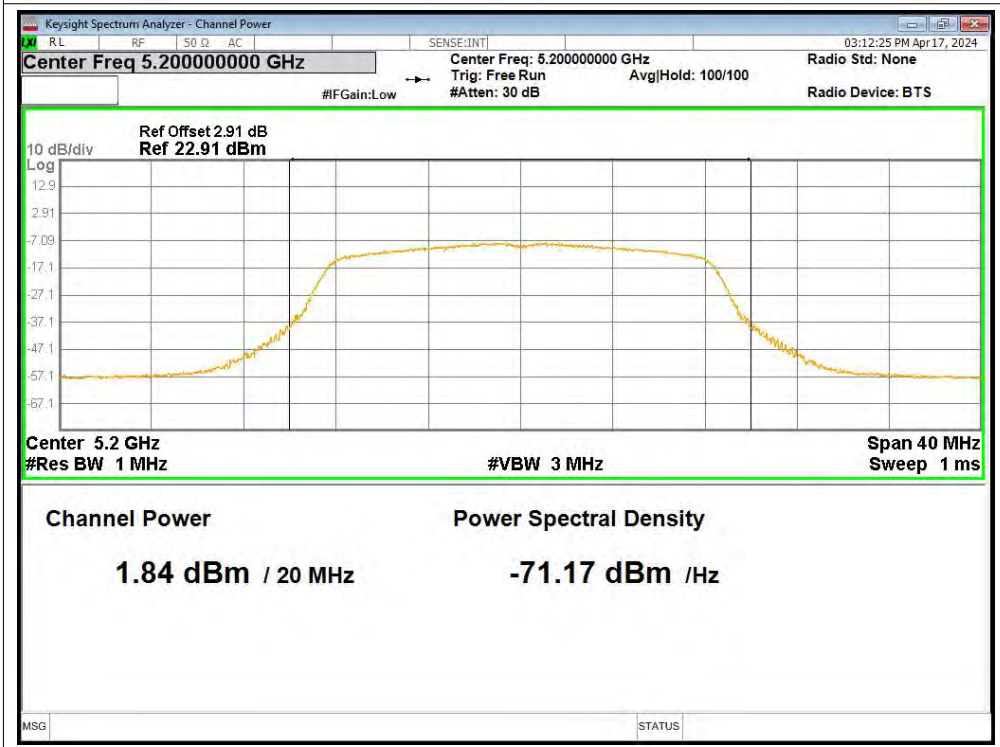
Power NVNT n40 5230MHz Ant1



Power NVNT ac20 5180MHz Ant1



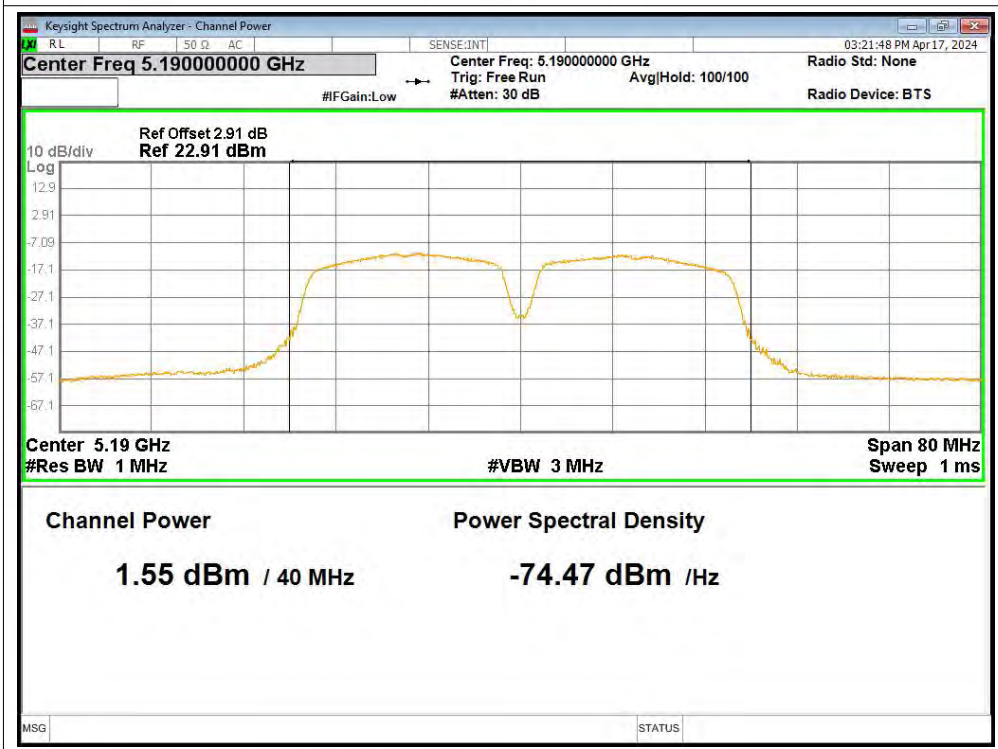
Power NVNT ac20 5200MHz Ant1

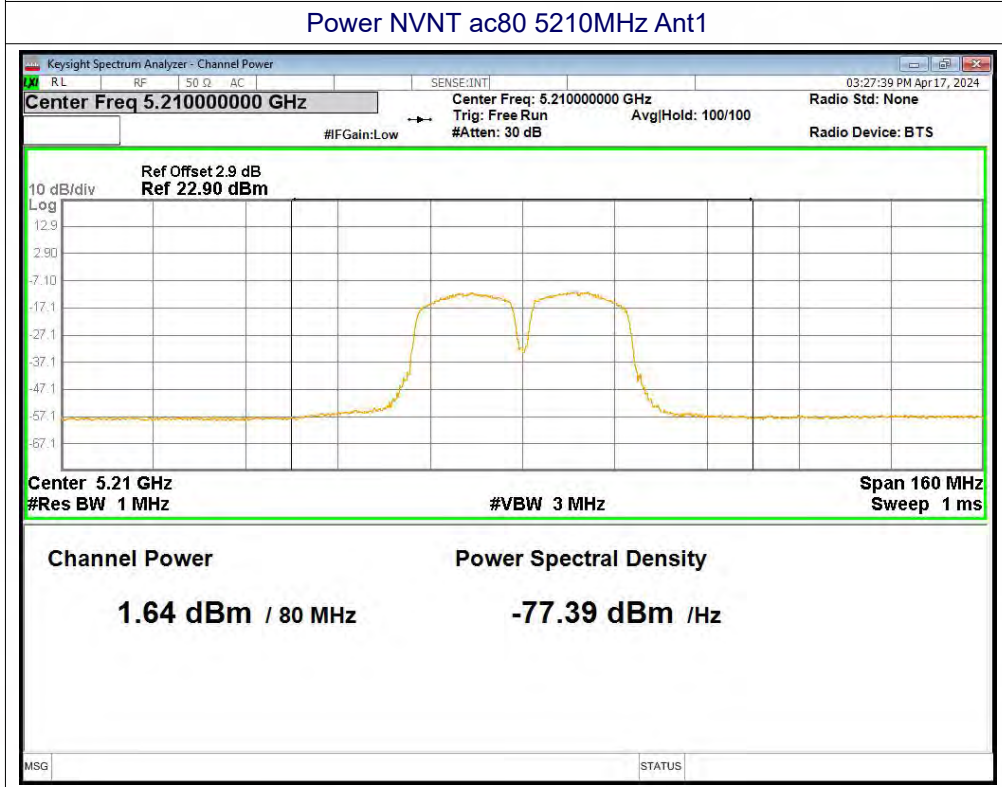
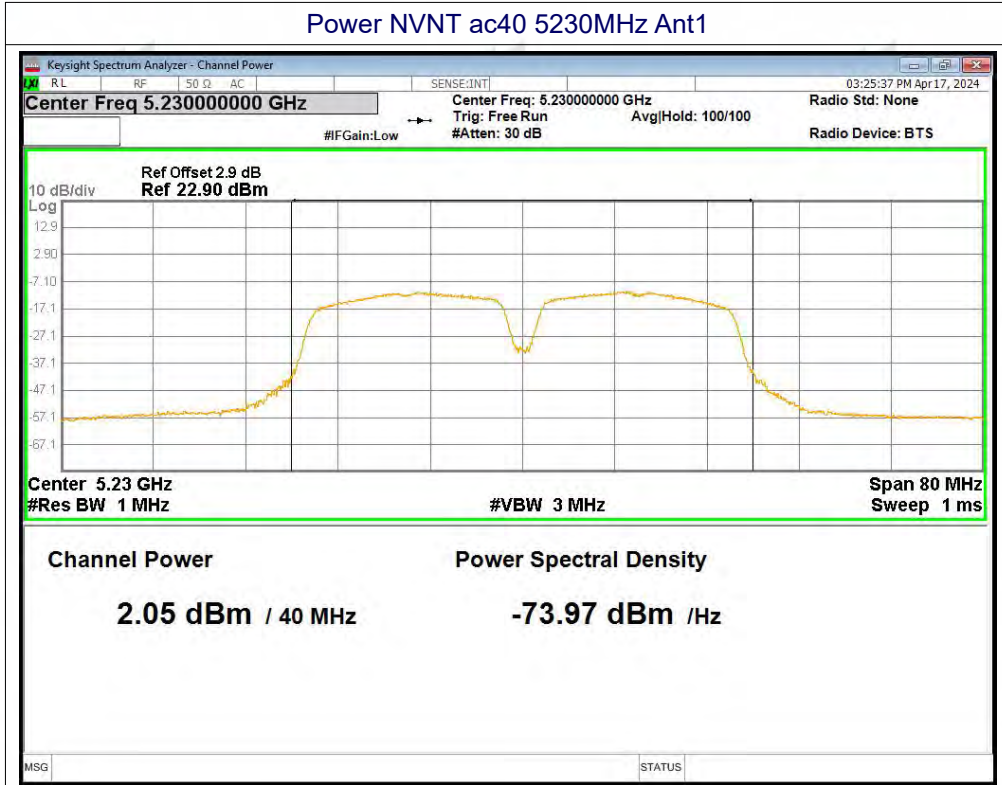


Power NVNT ac20 5240MHz Ant1



Power NVNT ac40 5190MHz Ant1





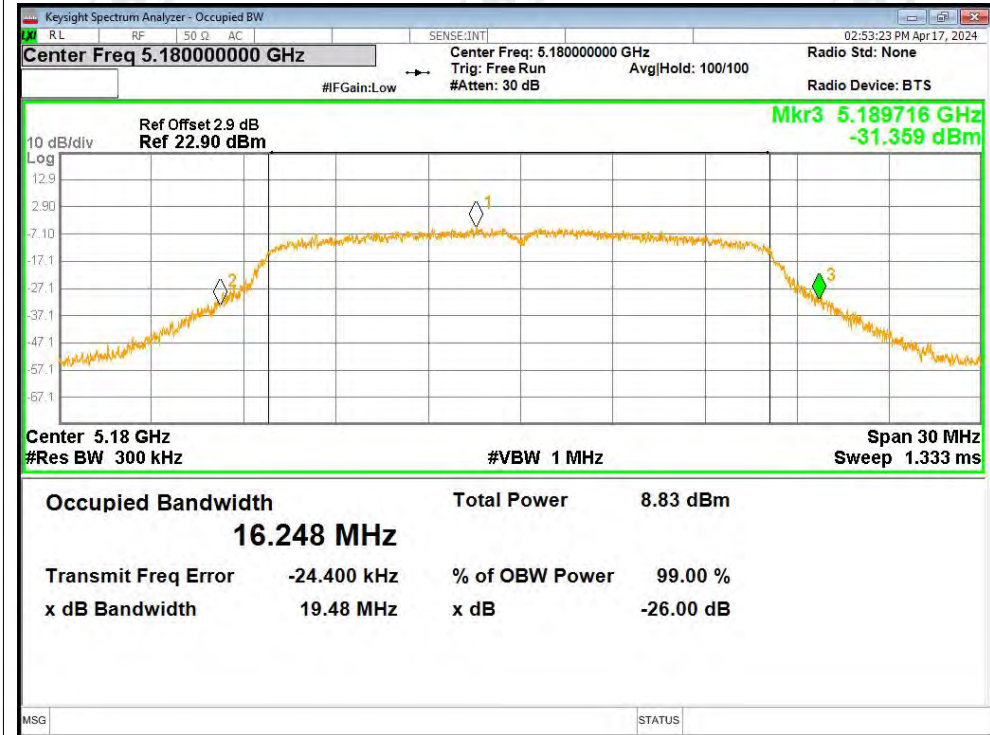


A3. -26dB Bandwidth

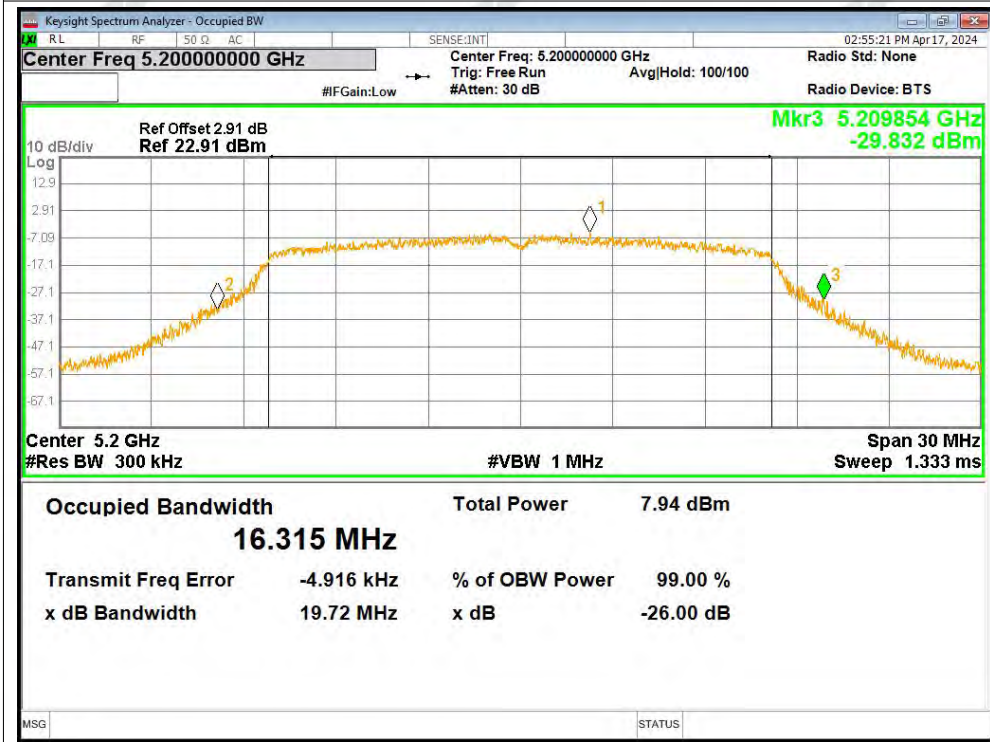
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	19.482	Pass
NVNT	a	5200	Ant1	19.718	Pass
NVNT	a	5240	Ant1	19.944	Pass
NVNT	n20	5180	Ant1	20.104	Pass
NVNT	n20	5200	Ant1	20.414	Pass
NVNT	n20	5240	Ant1	20.41	Pass
NVNT	n40	5190	Ant1	37.799	Pass
NVNT	n40	5230	Ant1	37.581	Pass
NVNT	ac20	5180	Ant1	19.485	Pass
NVNT	ac20	5200	Ant1	19.538	Pass
NVNT	ac20	5240	Ant1	19.891	Pass
NVNT	ac40	5190	Ant1	39.022	Pass
NVNT	ac40	5230	Ant1	40.075	Pass
NVNT	ac80	5210	Ant1	38.909	Pass

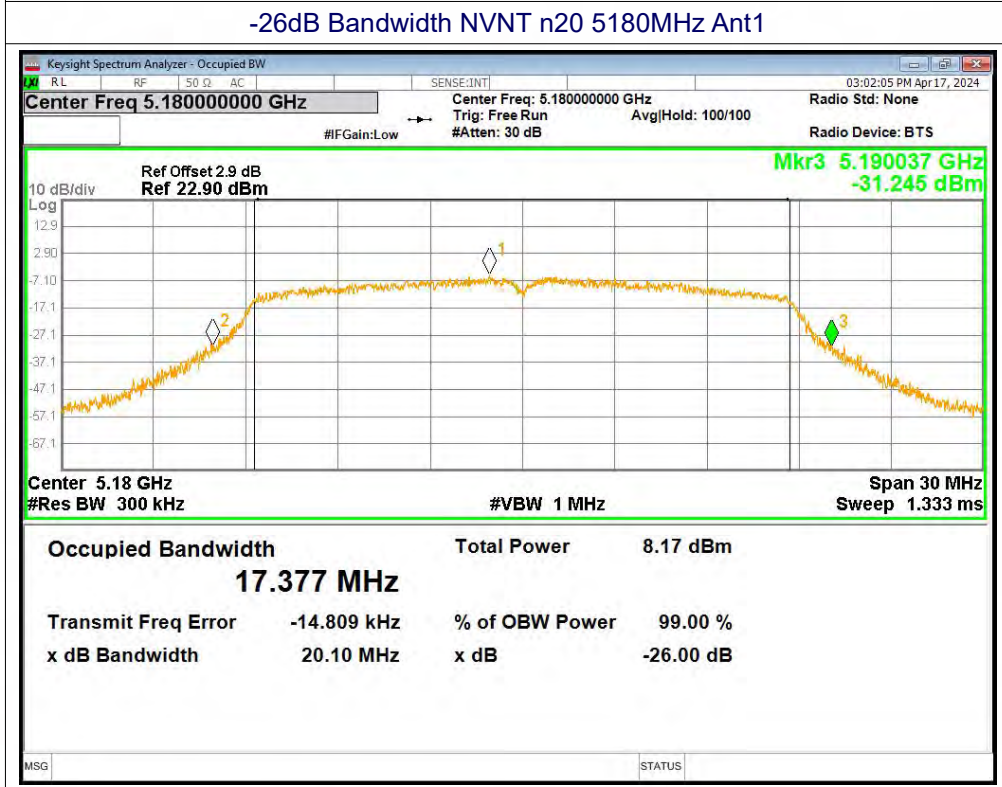
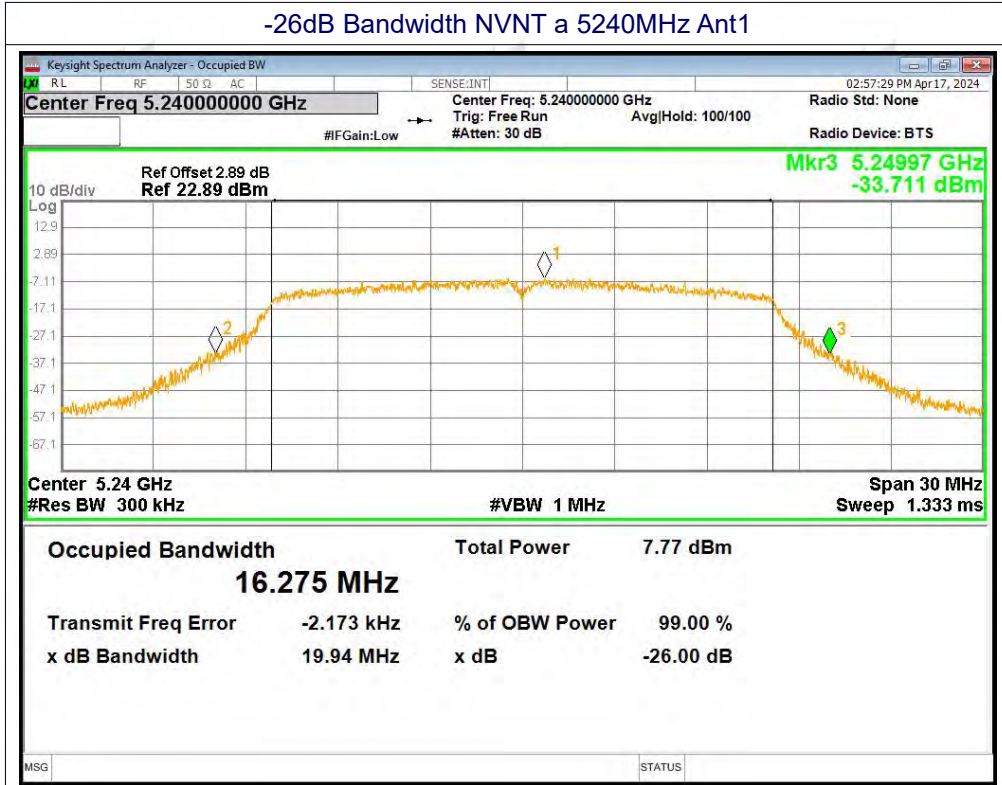
Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

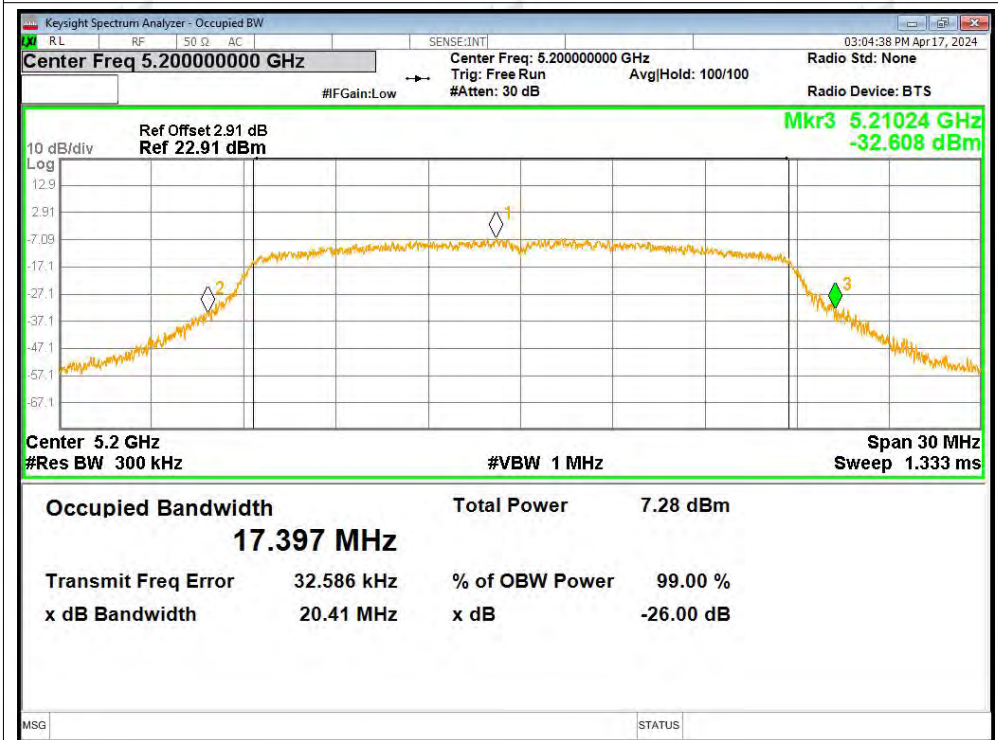


-26dB Bandwidth NVNT a 5200MHz Ant1

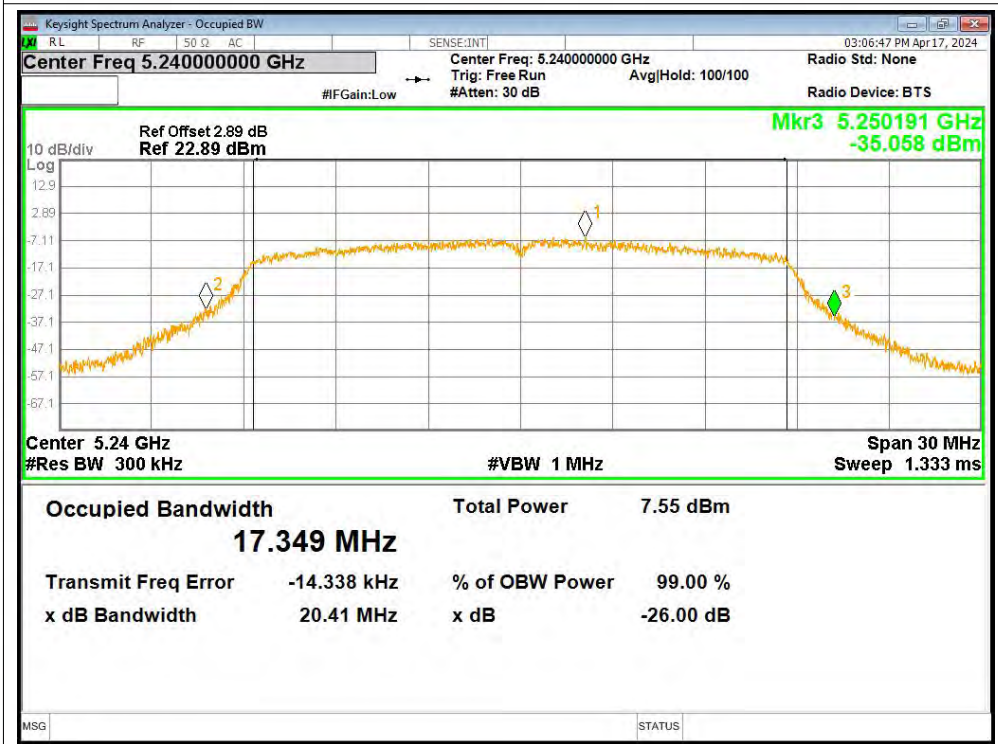




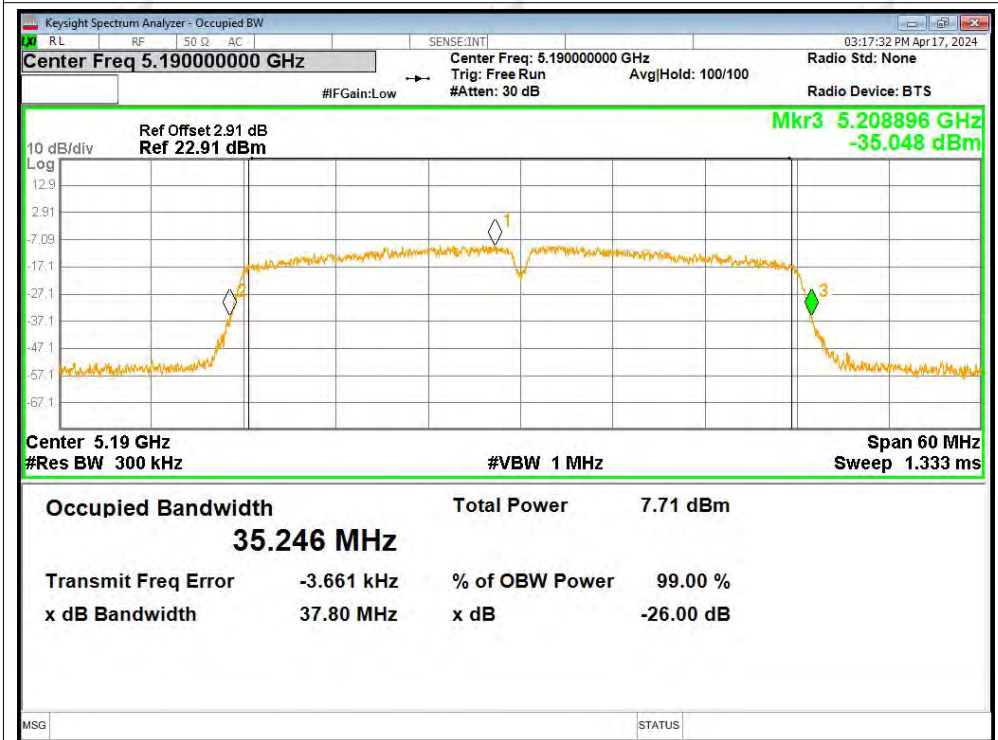
-26dB Bandwidth NVNT n20 5200MHz Ant1



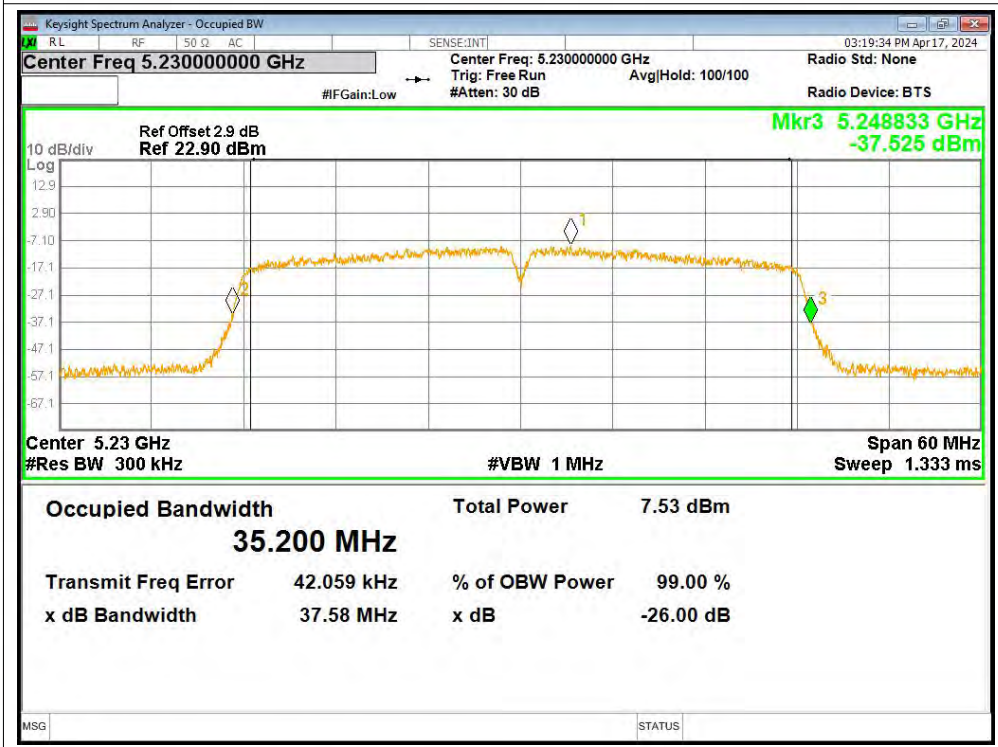
-26dB Bandwidth NVNT n20 5240MHz Ant1

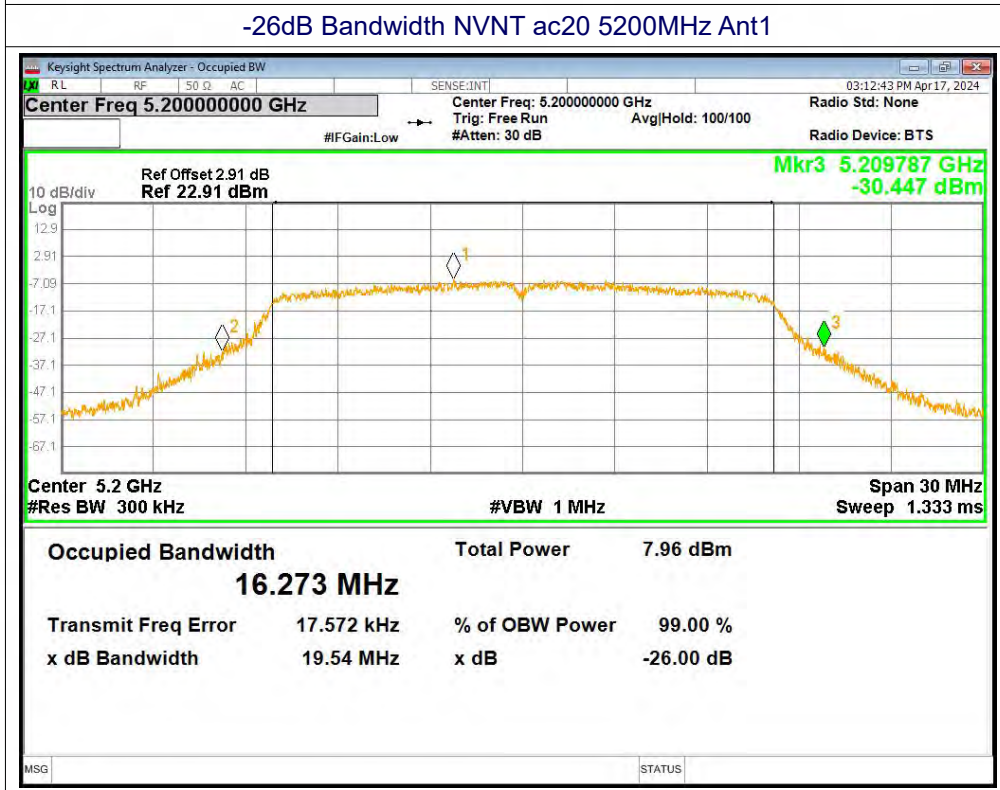
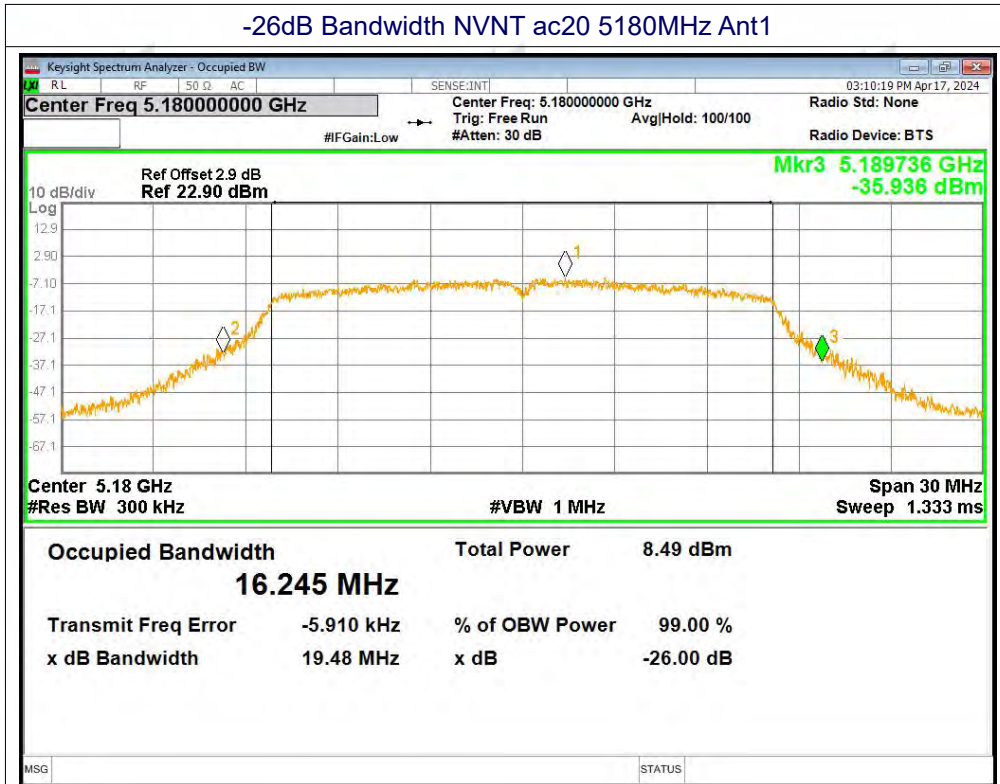


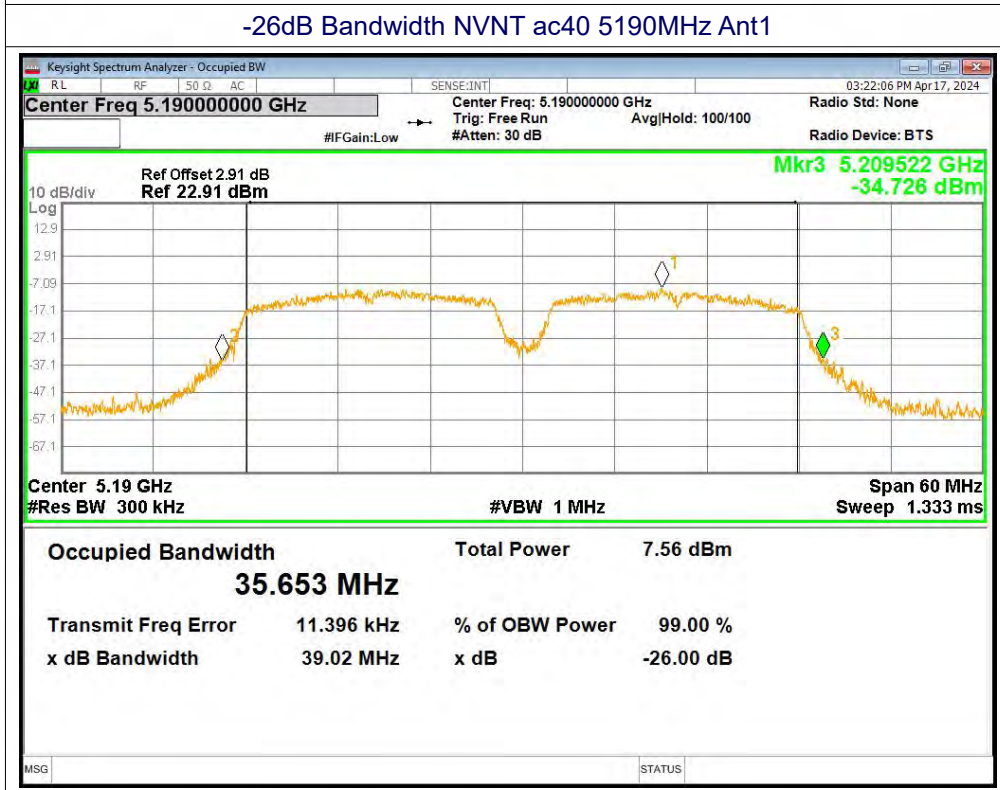
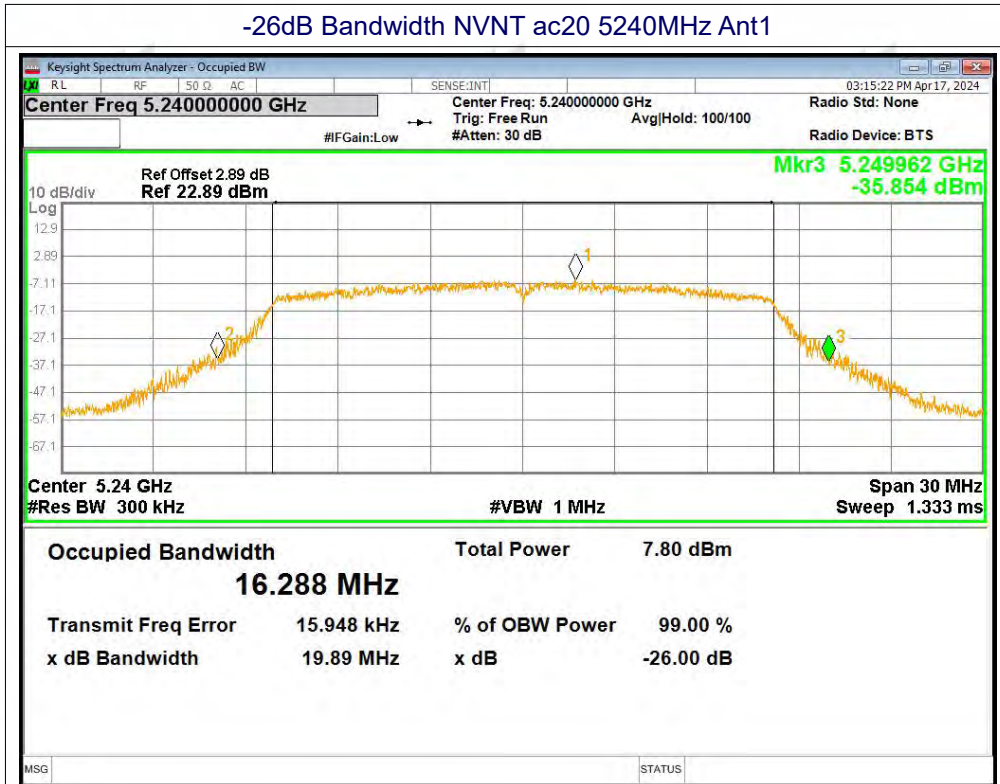
-26dB Bandwidth NVNT n40 5190MHz Ant1

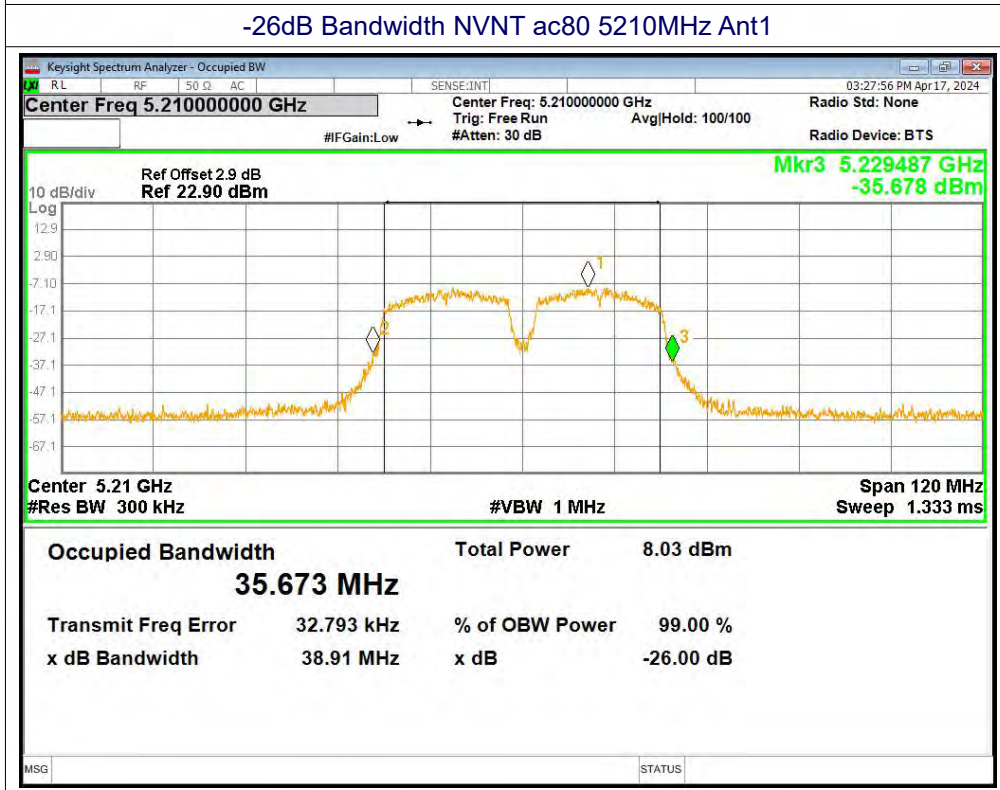
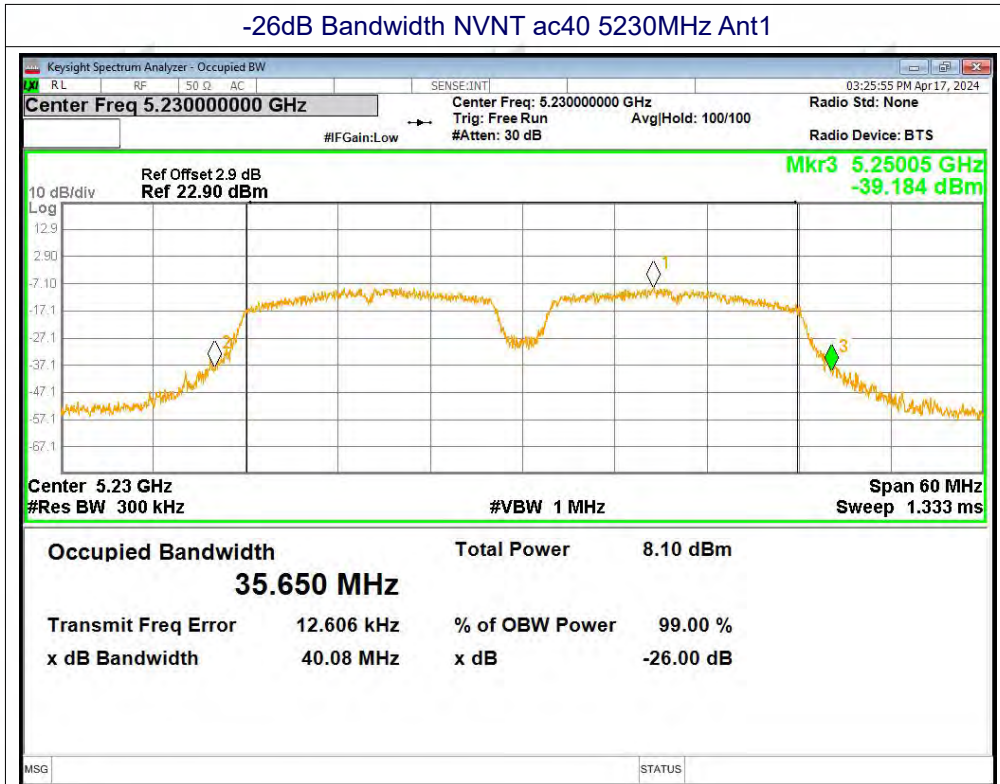


-26dB Bandwidth NVNT n40 5230MHz Ant1









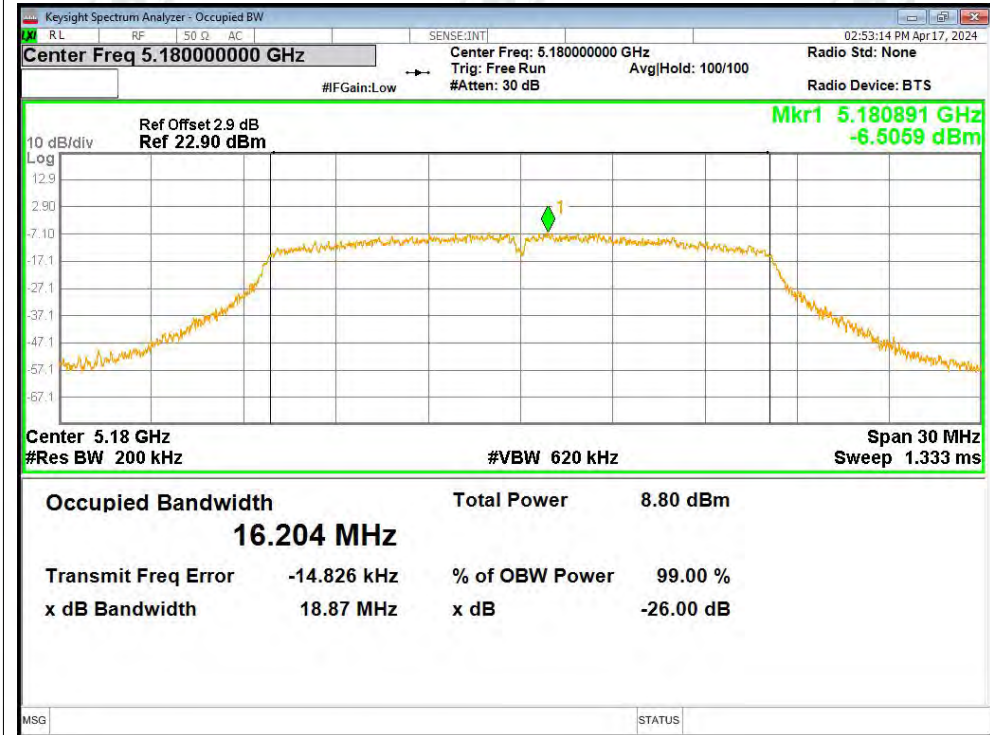


A4. Occupied Channel Bandwidth

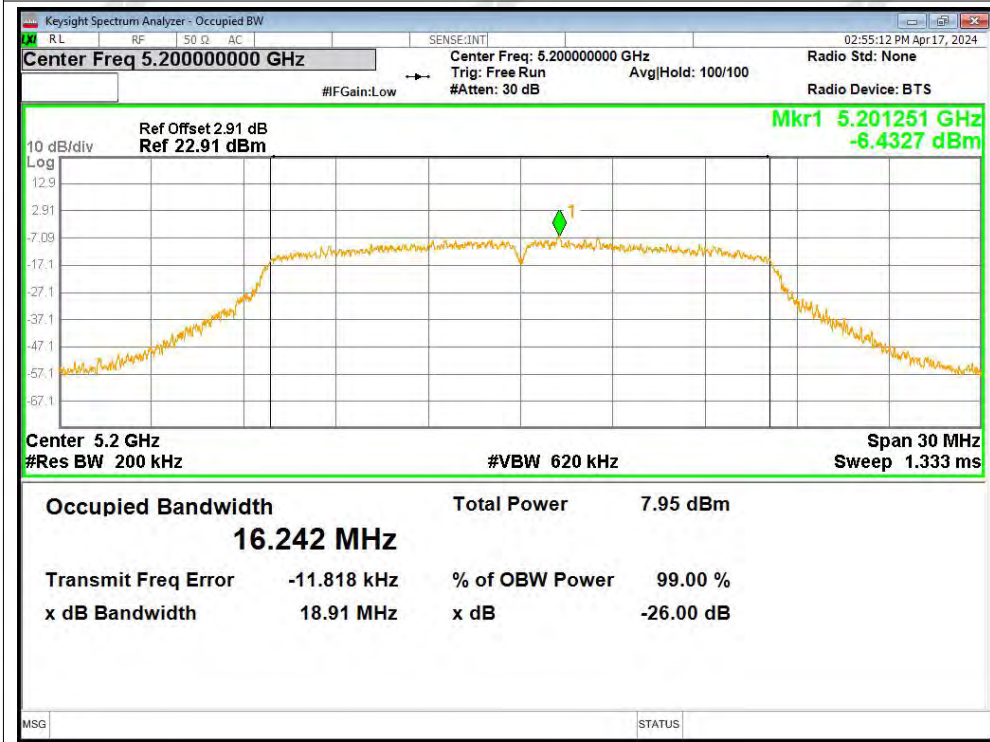
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.204
NVNT	a	5200	Ant1	16.242
NVNT	a	5240	Ant1	16.201
NVNT	n20	5180	Ant1	17.318
NVNT	n20	5200	Ant1	17.32
NVNT	n20	5240	Ant1	17.294
NVNT	n40	5190	Ant1	35.294
NVNT	n40	5230	Ant1	35.254
NVNT	ac20	5180	Ant1	16.181
NVNT	ac20	5200	Ant1	16.235
NVNT	ac20	5240	Ant1	16.245
NVNT	ac40	5190	Ant1	35.706
NVNT	ac40	5230	Ant1	35.67
NVNT	ac80	5210	Ant1	35.716

Test Graphs

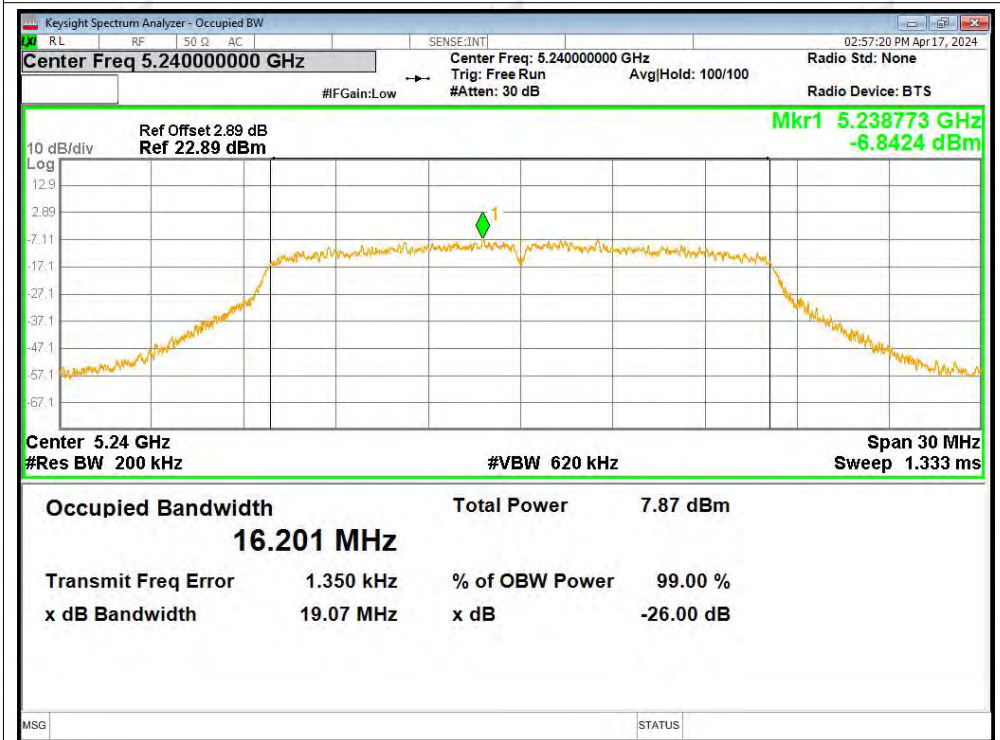
OBW NVNT a 5180MHz Ant1



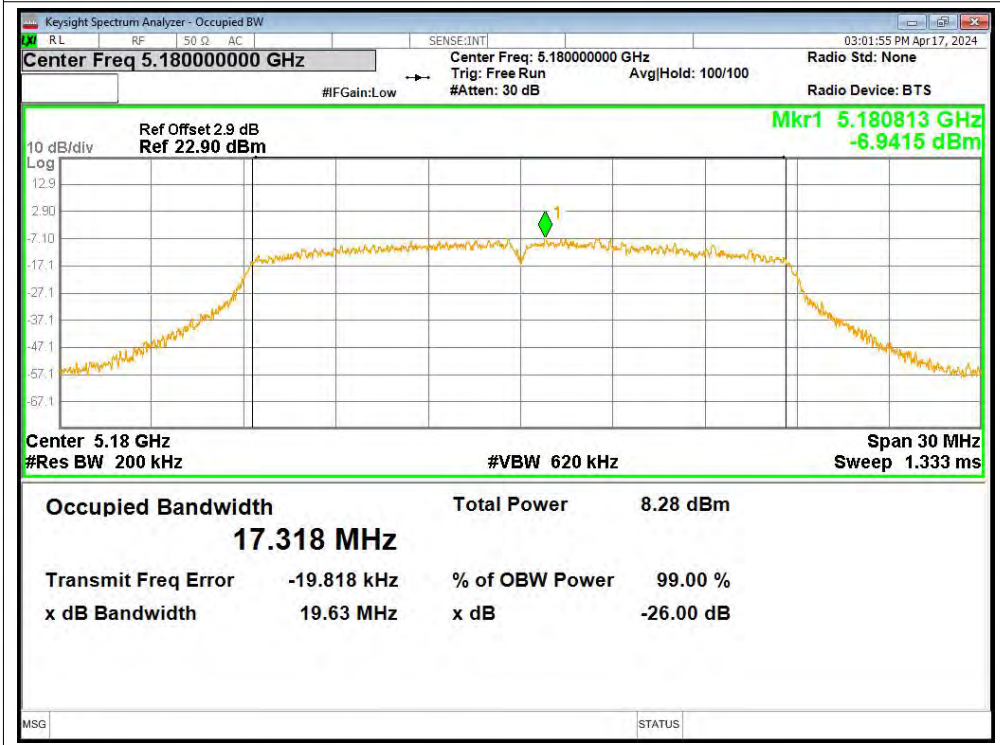
OBW NVNT a 5200MHz Ant1



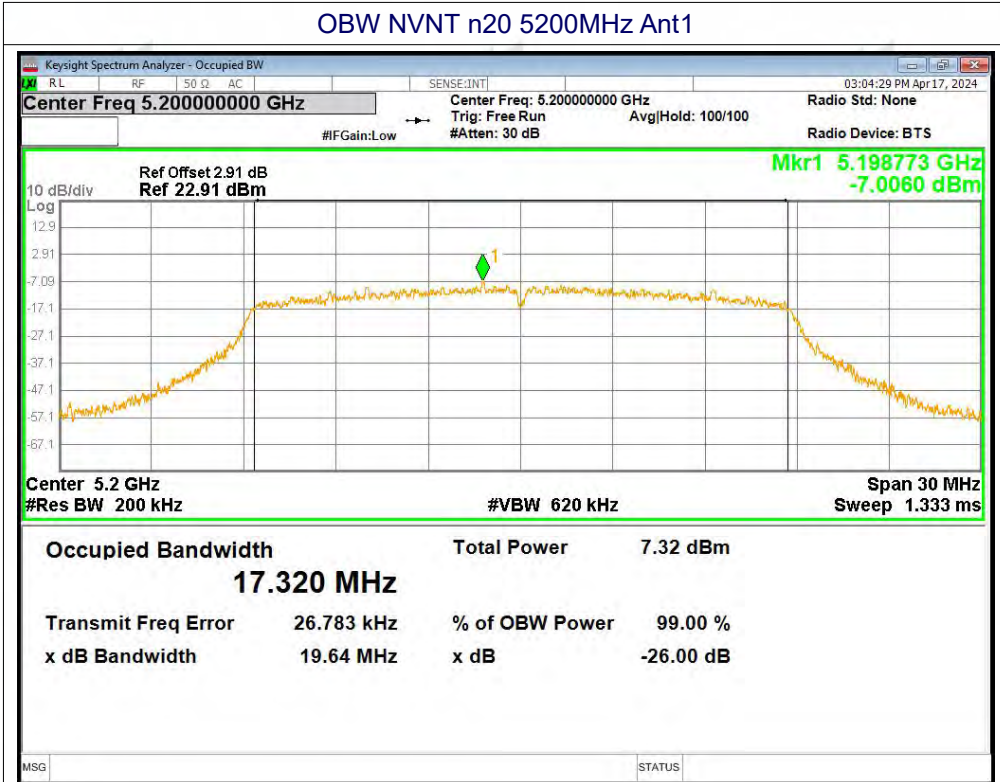
OBW NVNT a 5240MHz Ant1



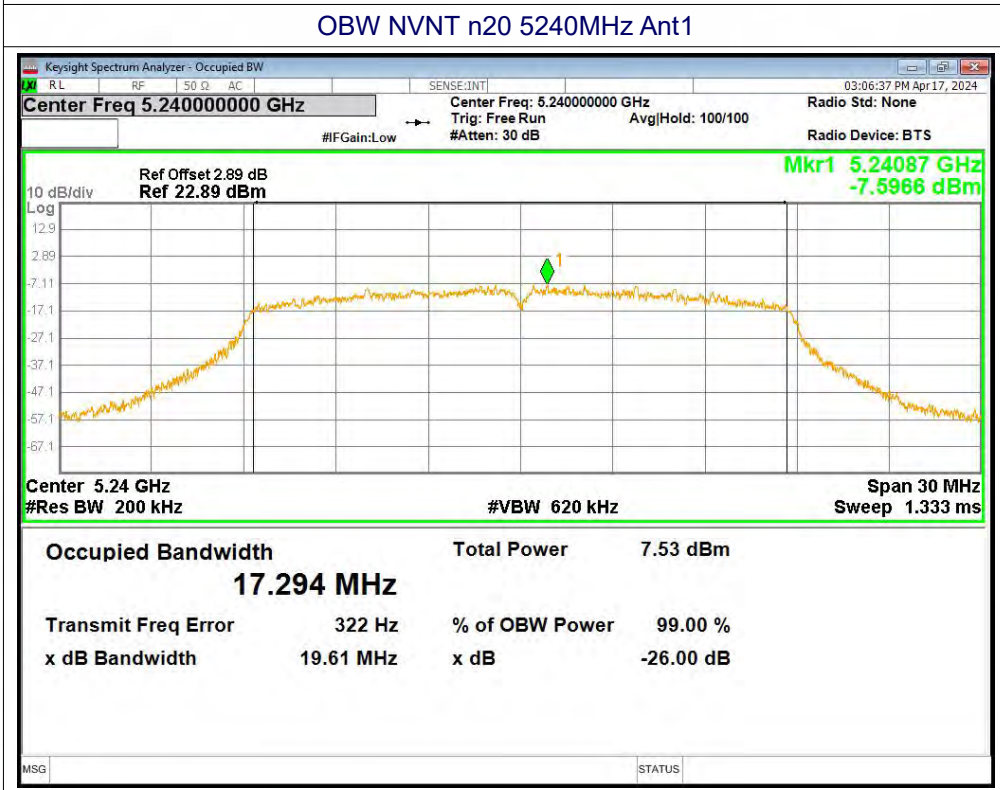
OBW NVNT n20 5180MHz Ant1



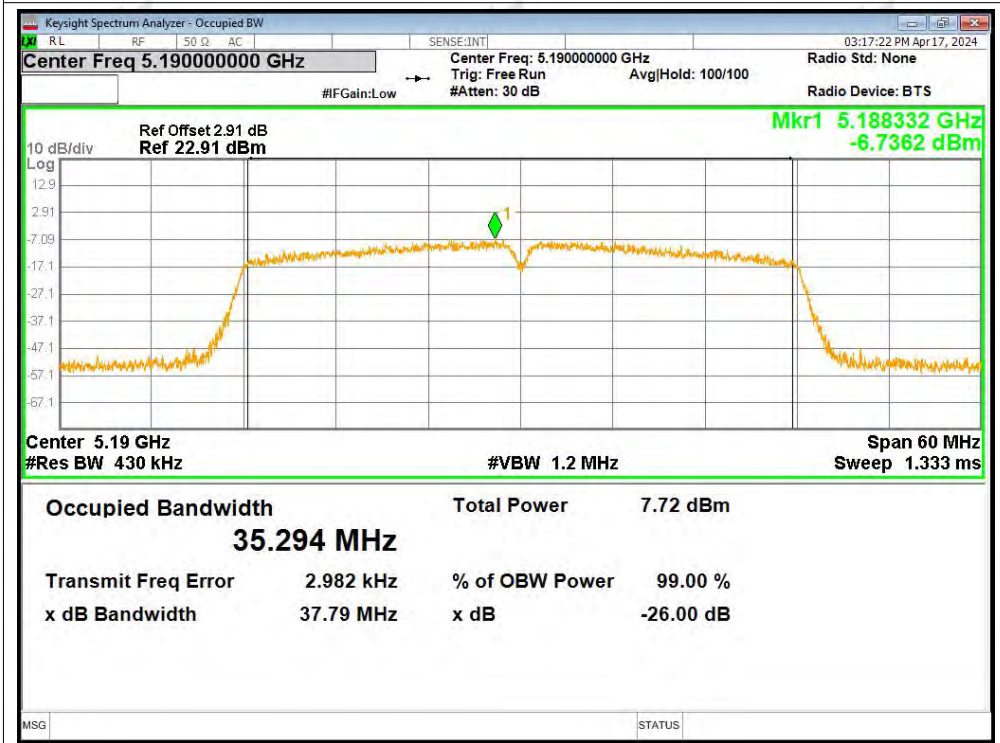
OBW NVNT n20 5200MHz Ant1



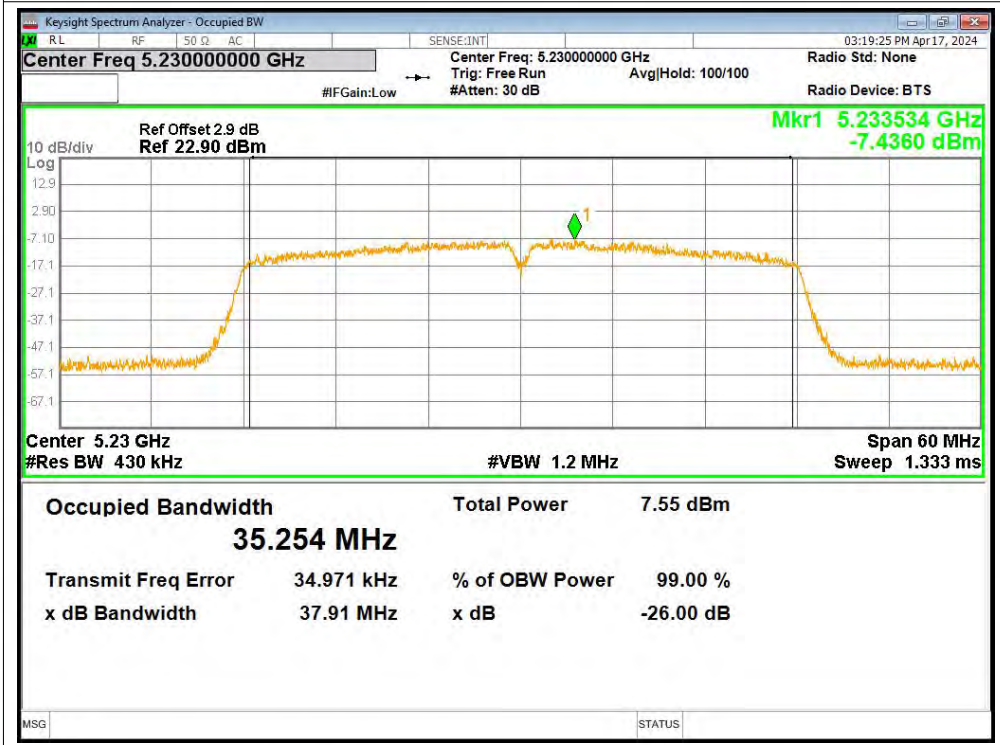
OBW NVNT n20 5240MHz Ant1



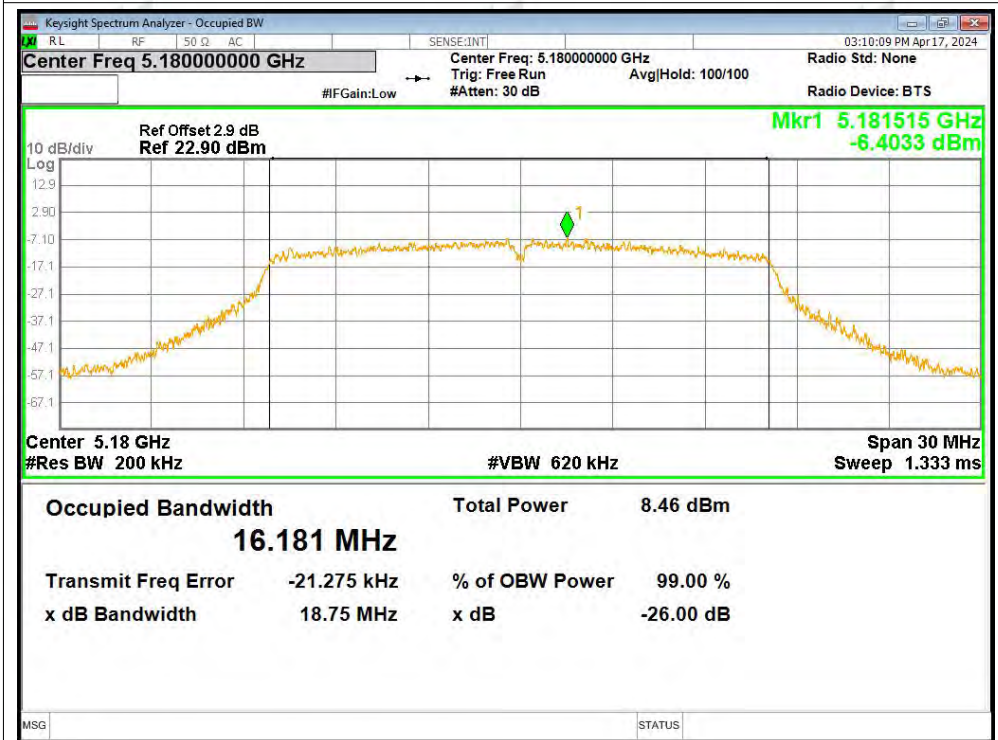
OBW NVNT n40 5190MHz Ant1



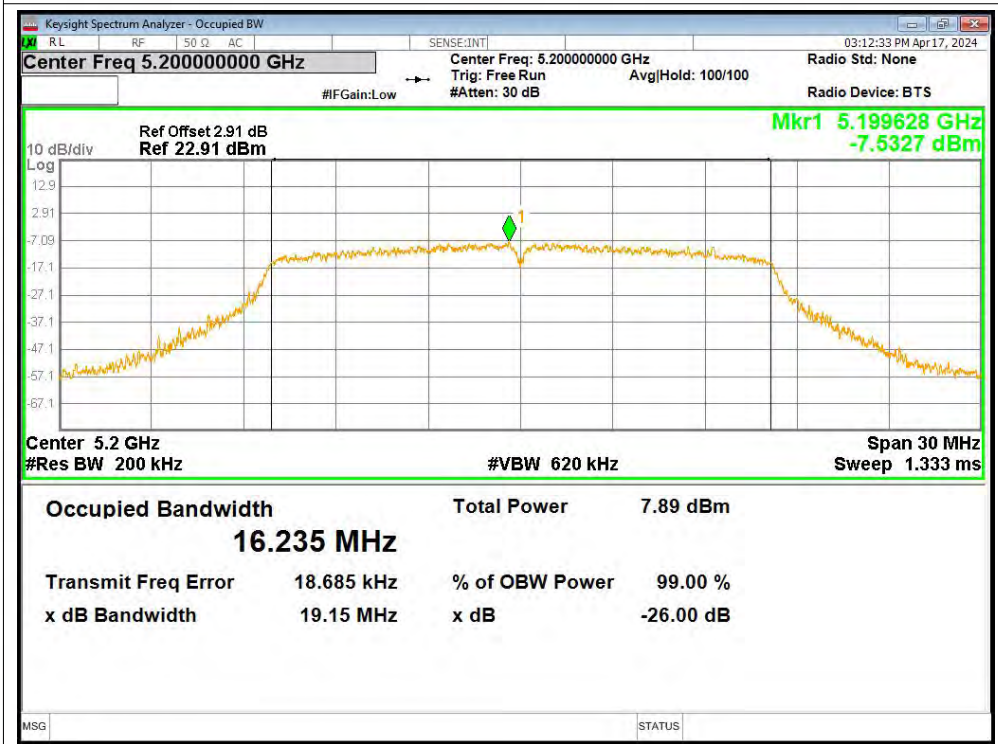
OBW NVNT n40 5230MHz Ant1



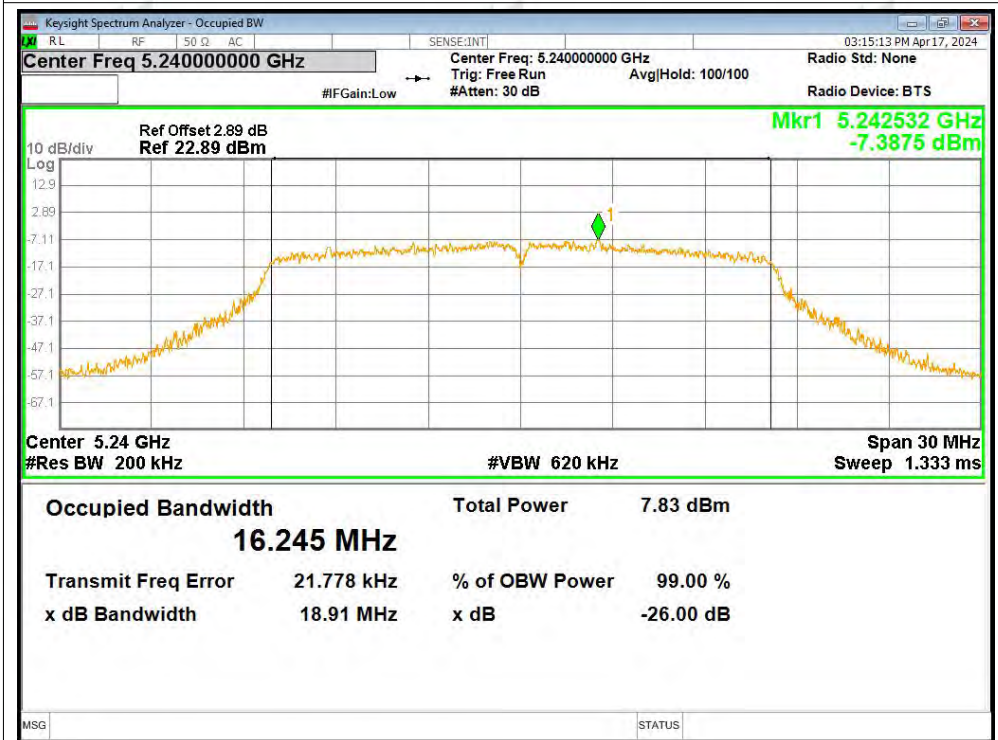
OBW NVNT ac20 5180MHz Ant1



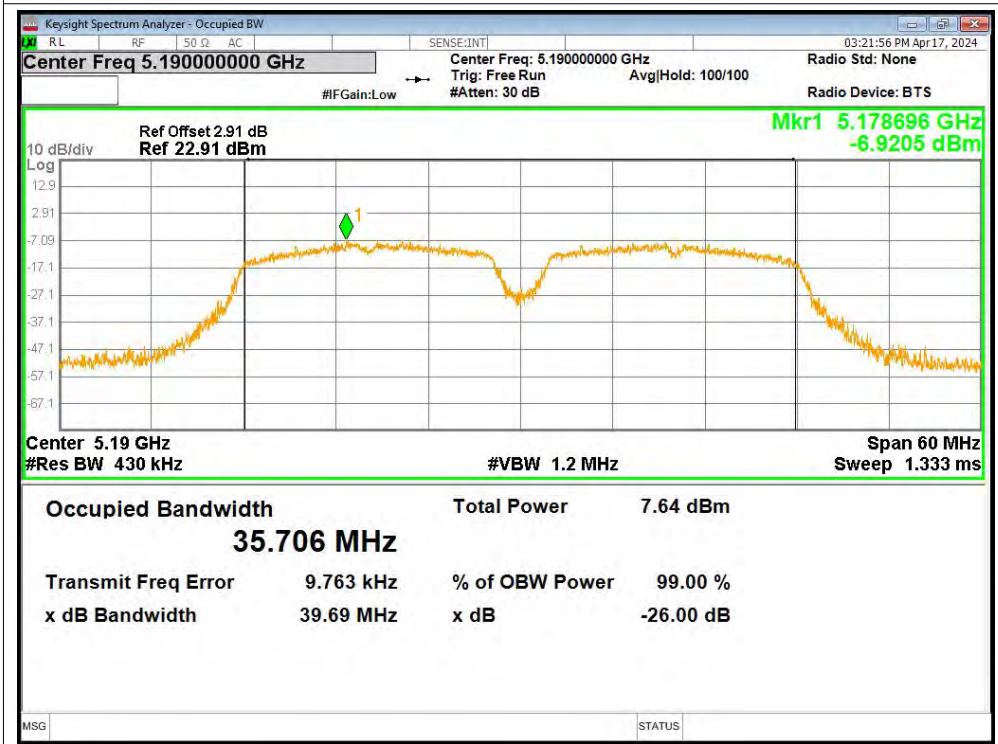
OBW NVNT ac20 5200MHz Ant1



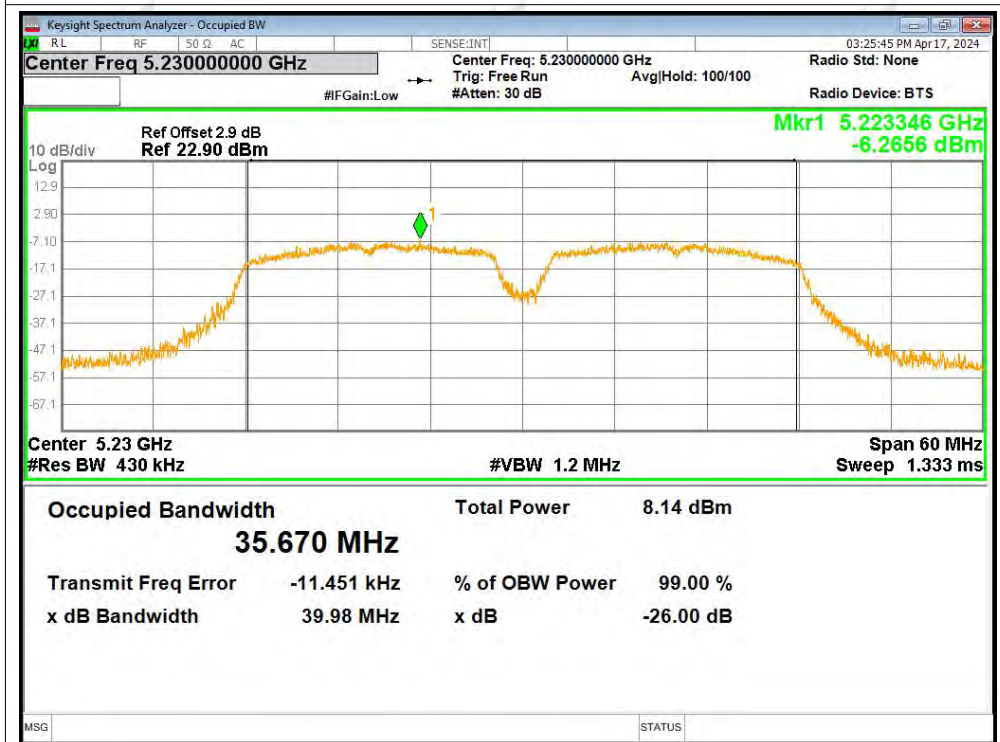
OBW NVNT ac20 5240MHz Ant1



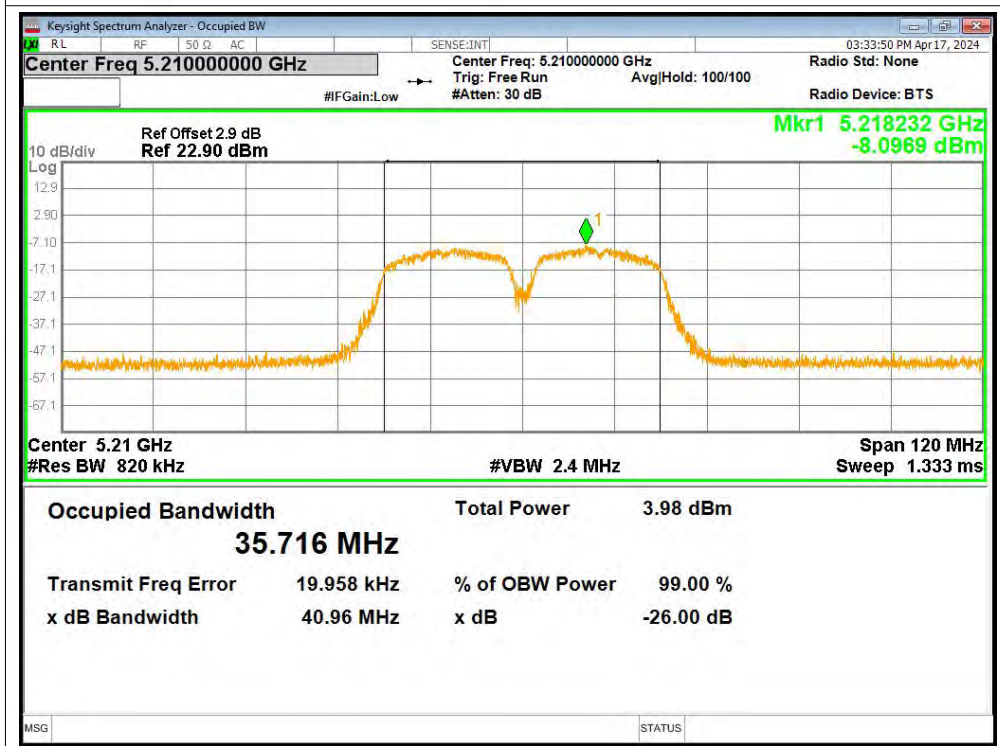
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1



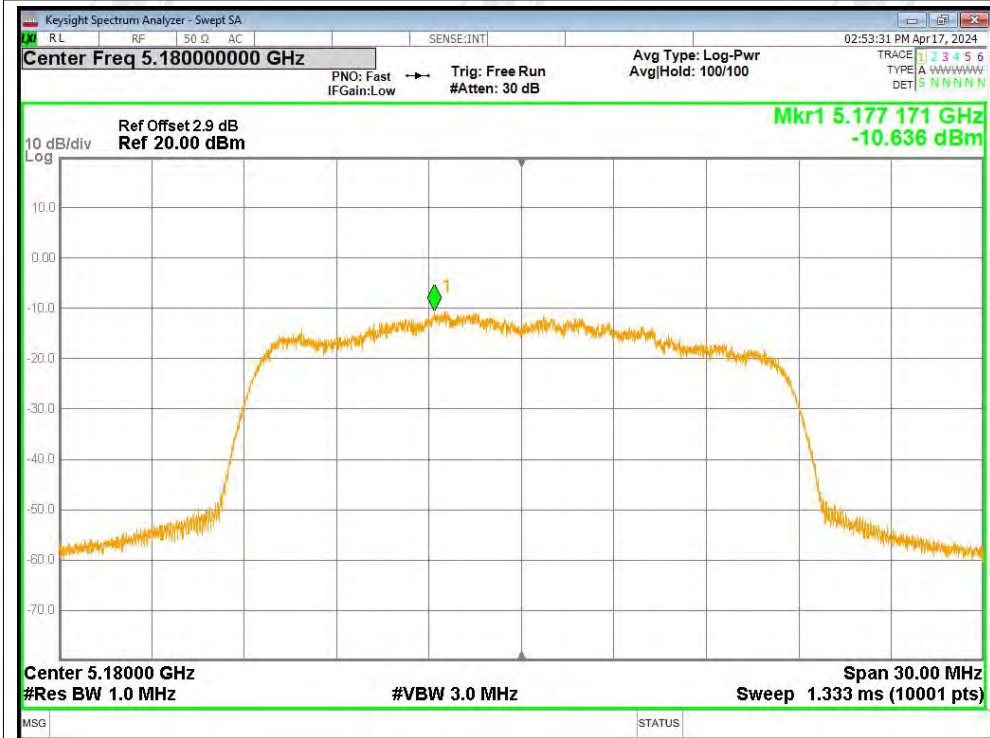


A5. Maximum Power Spectral Density Level

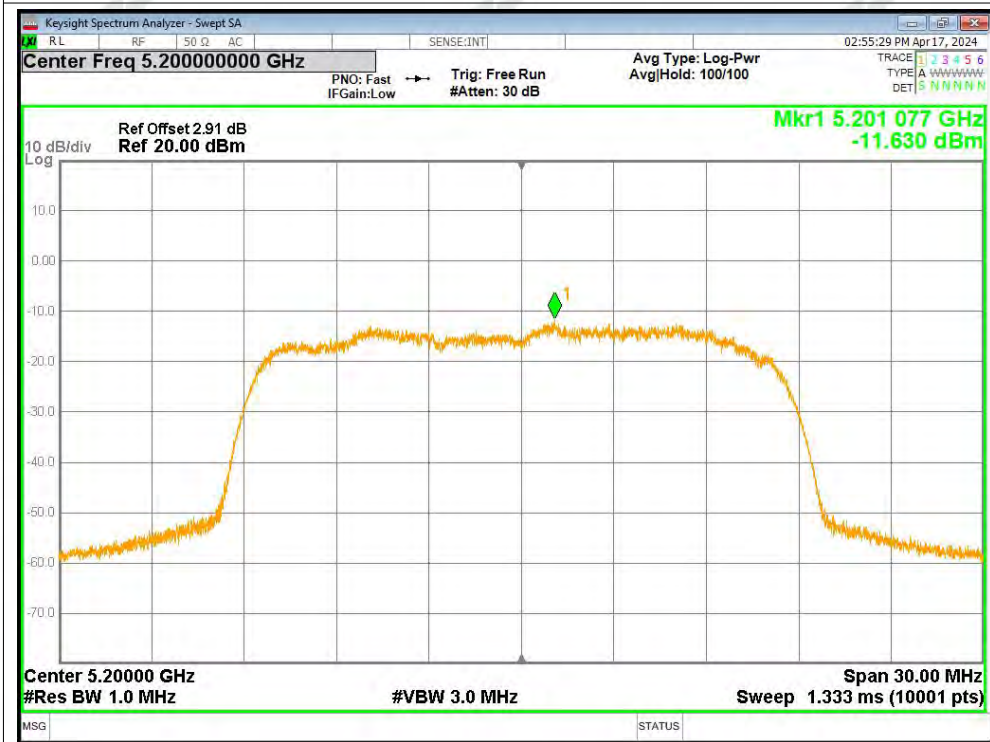
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-10.64	0.44	-10.2	11	Pass
NVNT	a	5200	Ant1	-11.63	0.34	-11.29	11	Pass
NVNT	a	5240	Ant1	-10.67	0.44	-10.23	11	Pass
NVNT	n20	5180	Ant1	-10.35	0.45	-9.9	11	Pass
NVNT	n20	5200	Ant1	-11.52	0.47	-11.05	11	Pass
NVNT	n20	5240	Ant1	-11.78	0.26	-11.52	11	Pass
NVNT	n40	5190	Ant1	-18.81	0.77	-18.04	11	Pass
NVNT	n40	5230	Ant1	-18.35	0.52	-17.83	11	Pass
NVNT	ac20	5180	Ant1	-17.5	0.75	-16.75	11	Pass
NVNT	ac20	5200	Ant1	-15.48	0.72	-14.76	11	Pass
NVNT	ac20	5240	Ant1	-16.44	0.75	-15.69	11	Pass
NVNT	ac40	5190	Ant1	-17.74	3.01	-14.73	11	Pass
NVNT	ac40	5230	Ant1	-17.92	3.01	-14.91	11	Pass
NVNT	ac80	5210	Ant1	-19.25	2.22	-17.03	11	Pass

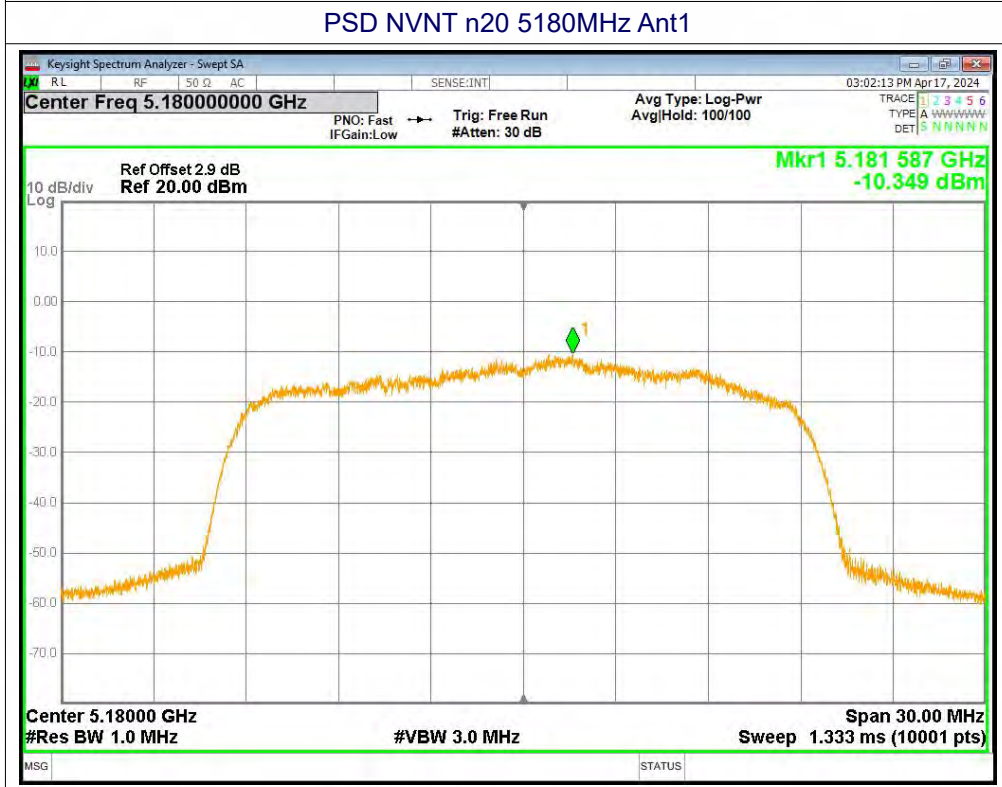
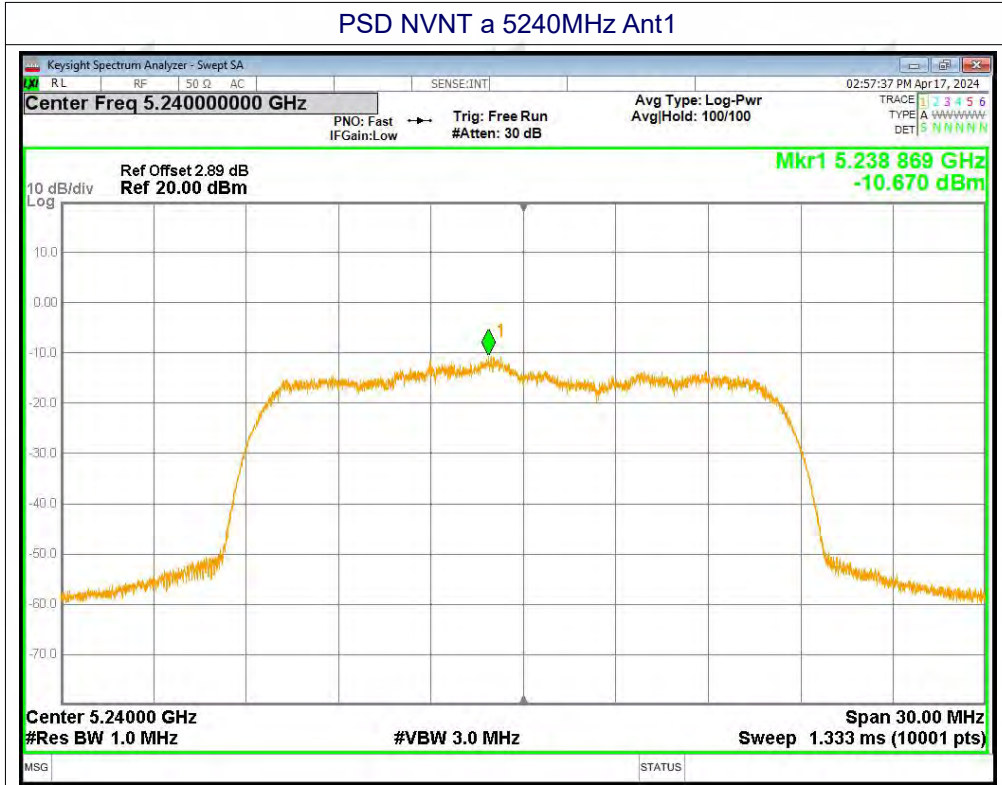
Test Graphs

PSD NVNT a 5180MHz Ant1

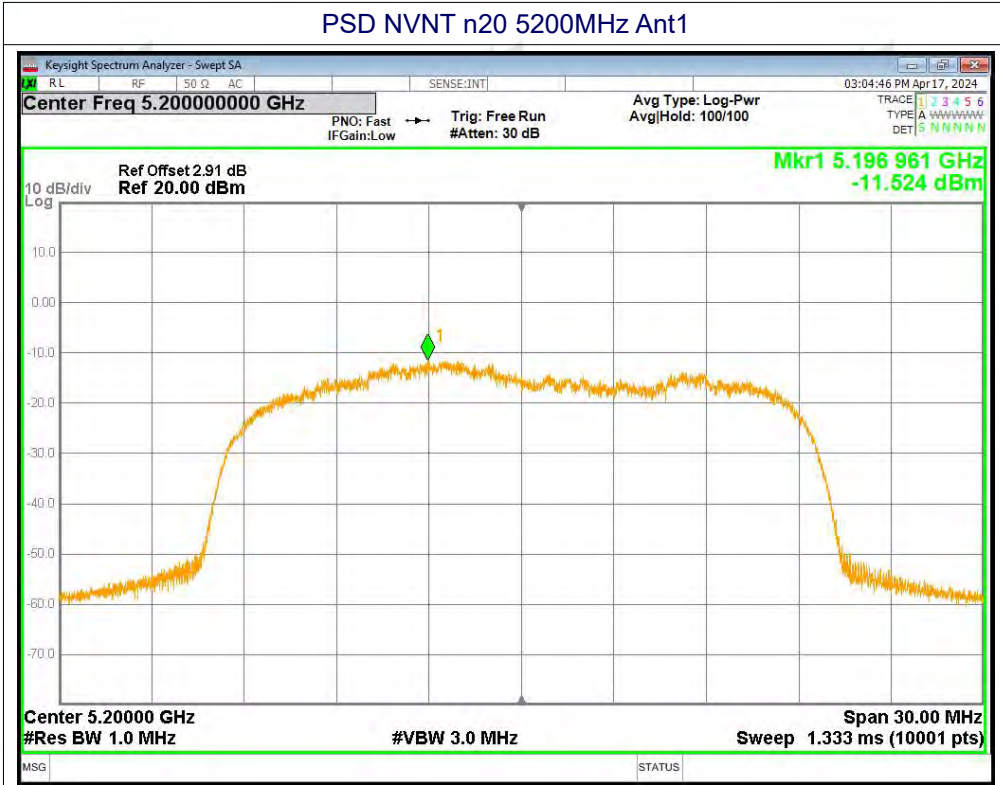


PSD NVNT a 5200MHz Ant1





PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1

