



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Notebook

Test Model: M116

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Bill Zhu
Supervised by:	Li Huan



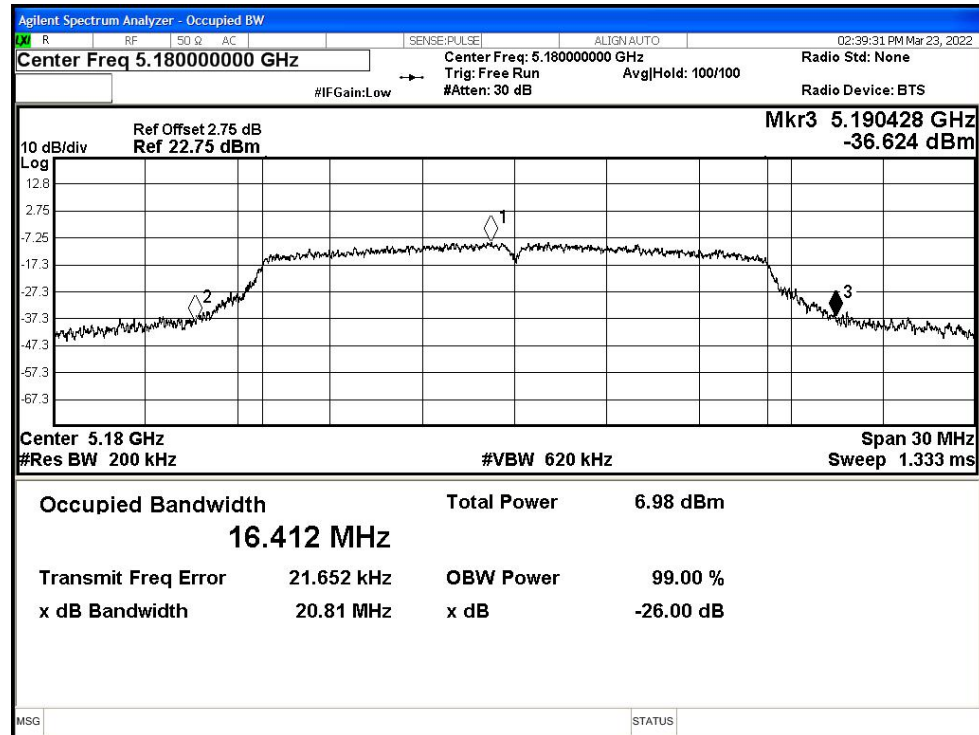
D.1 26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.812	0.5	Pass
NVNT	a	5200	Ant1	19.816	0.5	Pass
NVNT	a	5240	Ant1	20.167	0.5	Pass
NVNT	n20	5180	Ant1	20.98	0.5	Pass
NVNT	n20	5200	Ant1	20.212	0.5	Pass
NVNT	n20	5240	Ant1	20.025	0.5	Pass
NVNT	n40	5190	Ant1	44.994	0.5	Pass
NVNT	n40	5230	Ant1	47.736	0.5	Pass
NVNT	ac20	5180	Ant1	20.692	0.5	Pass
NVNT	ac20	5200	Ant1	20.364	0.5	Pass
NVNT	ac20	5240	Ant1	20.326	0.5	Pass
NVNT	ac40	5190	Ant1	50.099	0.5	Pass
NVNT	ac40	5230	Ant1	52.481	0.5	Pass
NVNT	ac80	5210	Ant1	117.721	0.5	Pass

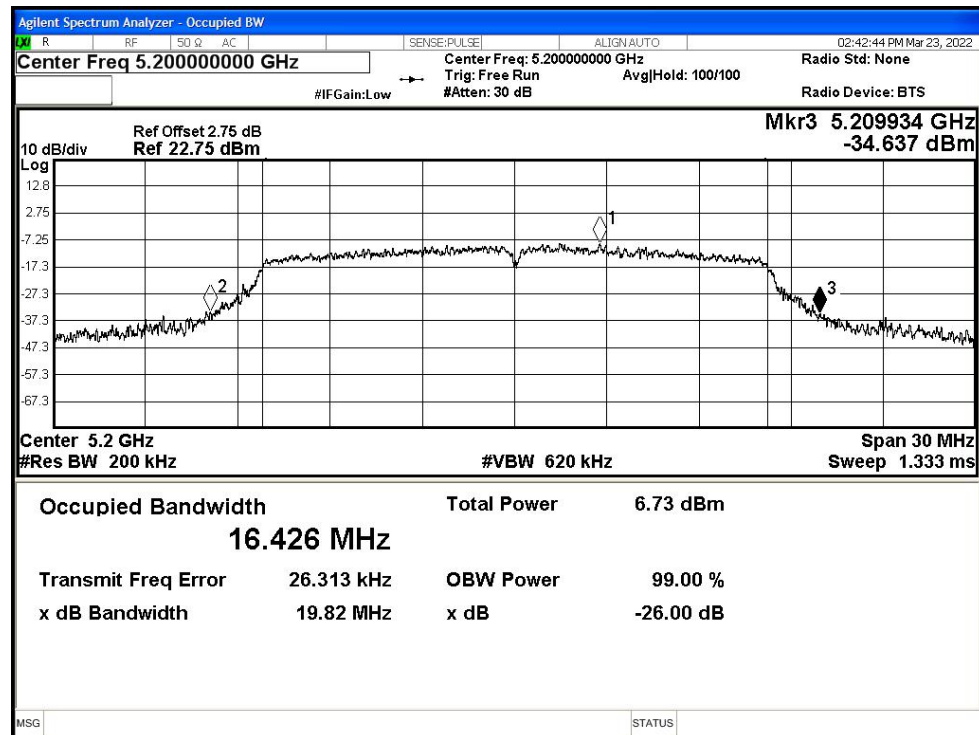


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

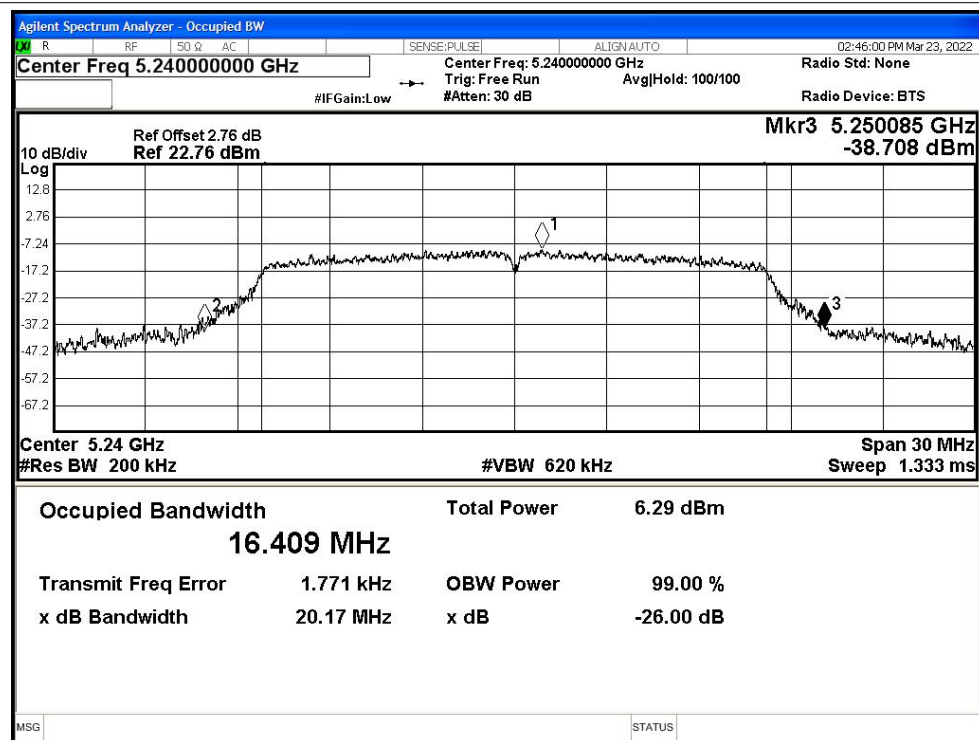


-26dB Bandwidth NVNT a 5200MHz Ant1

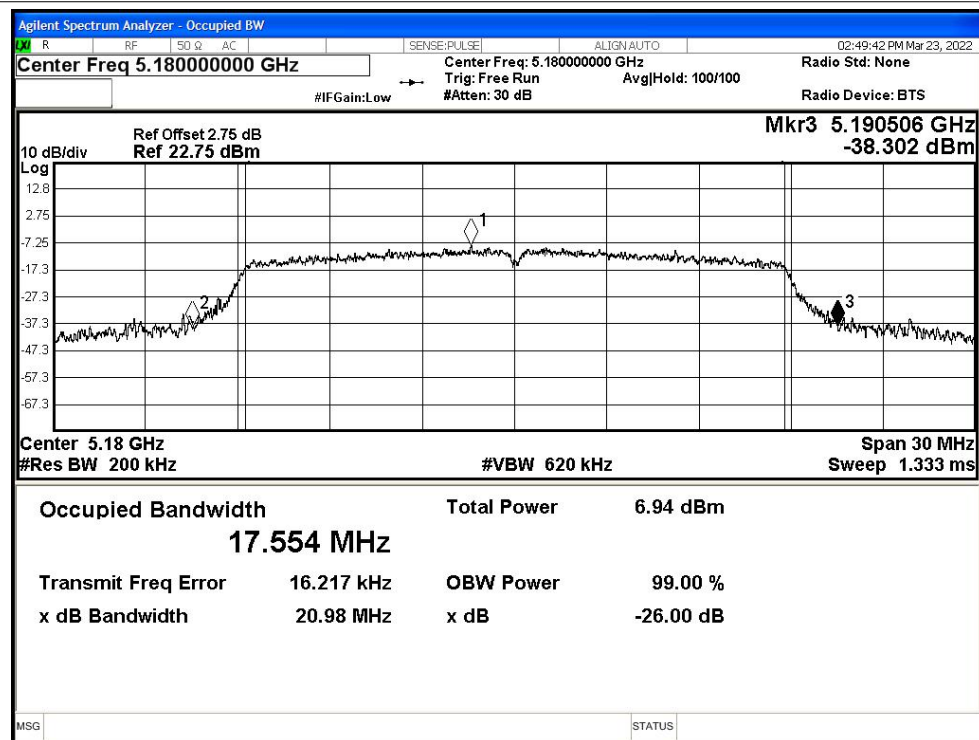


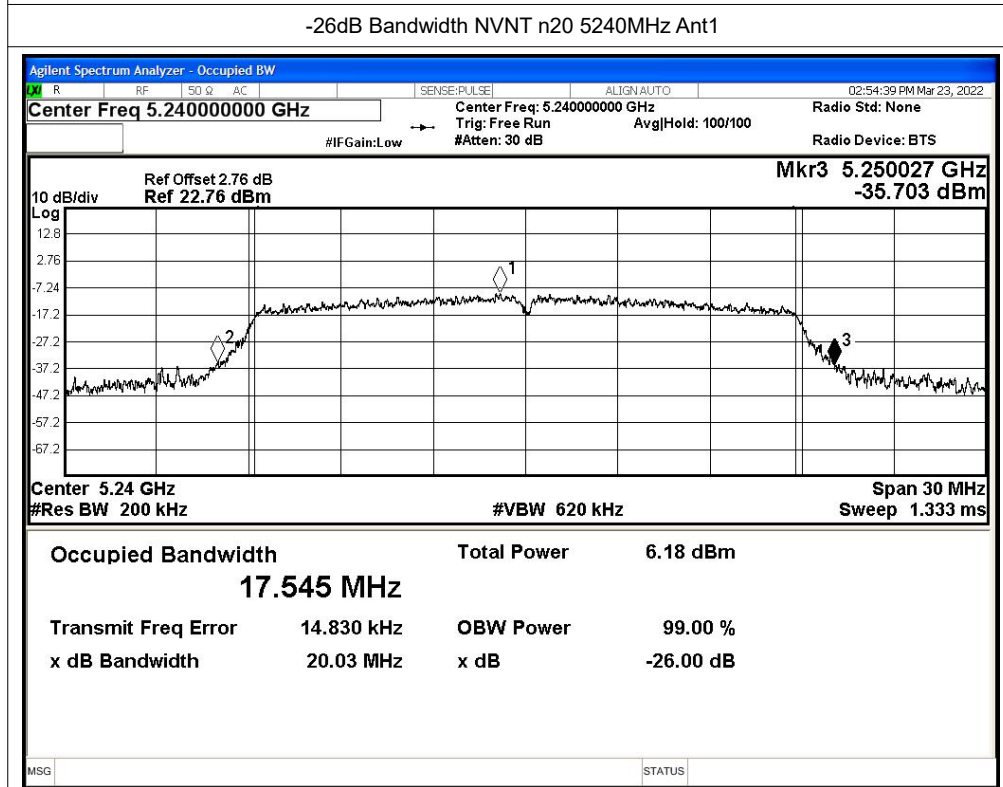
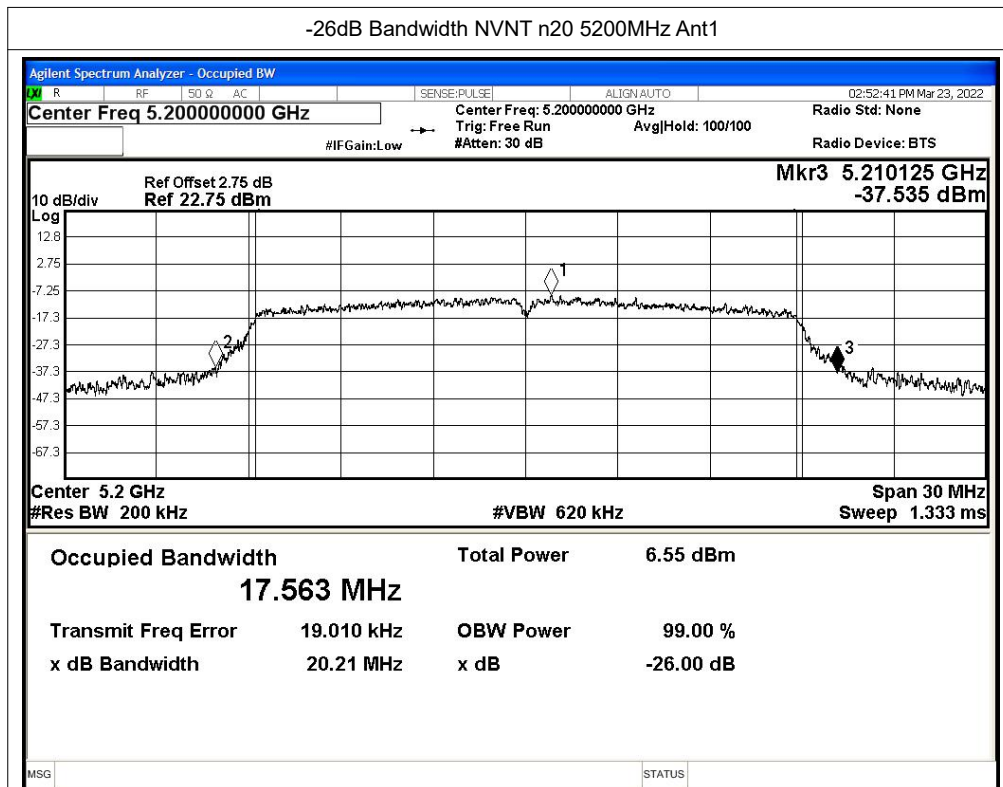


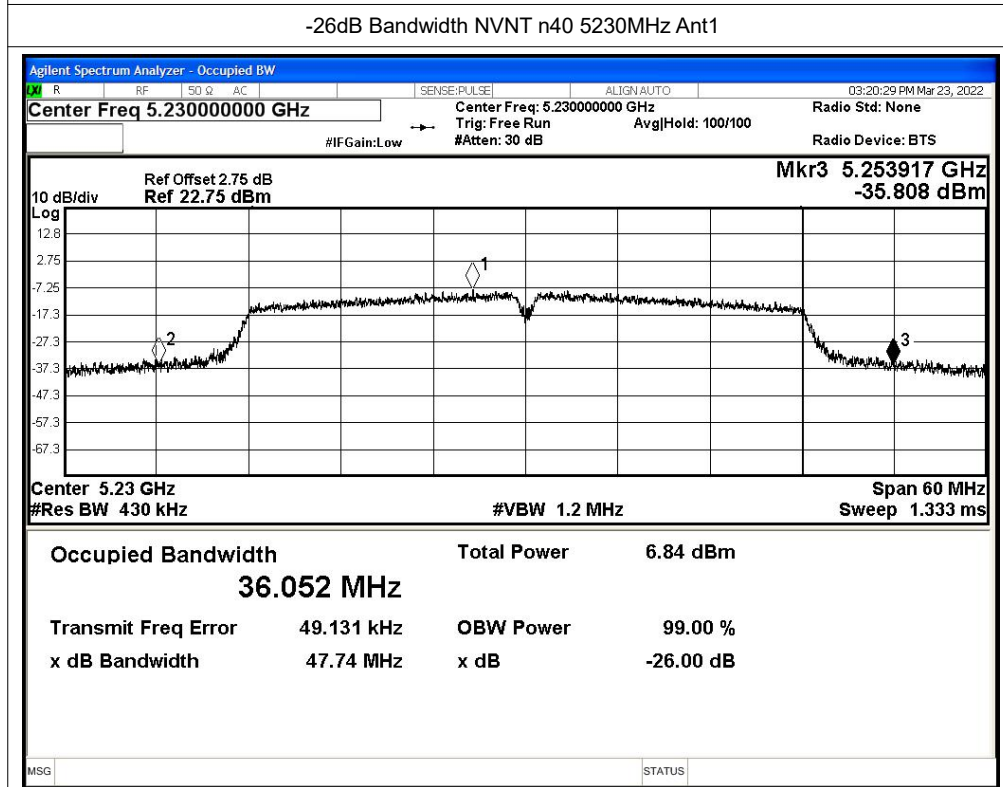
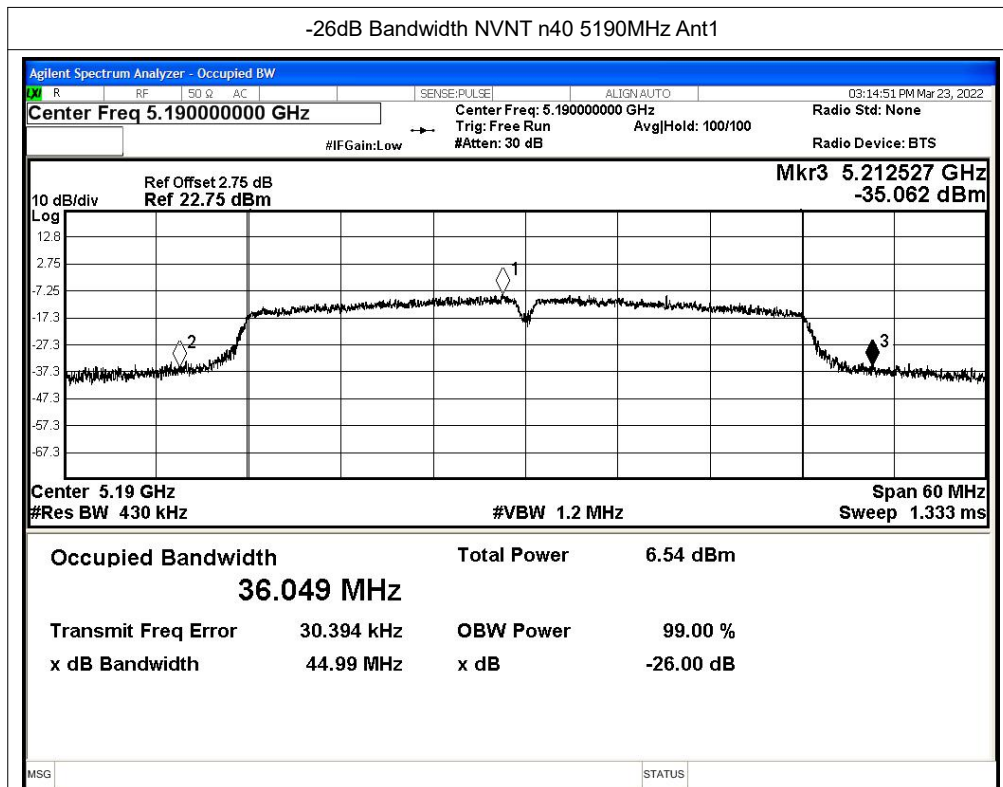
-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

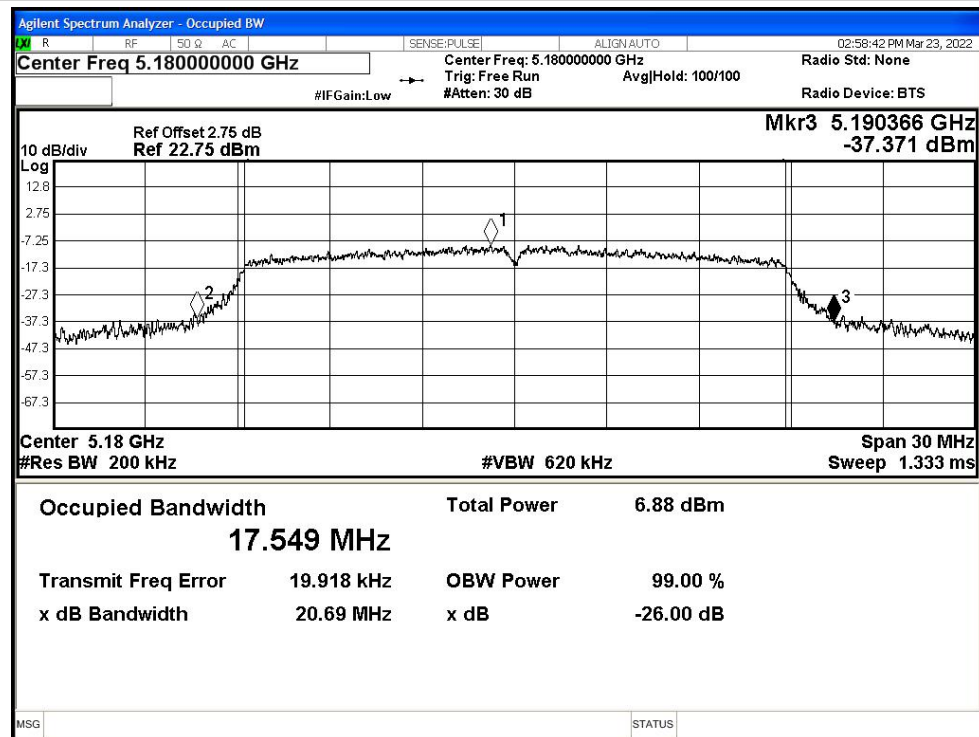




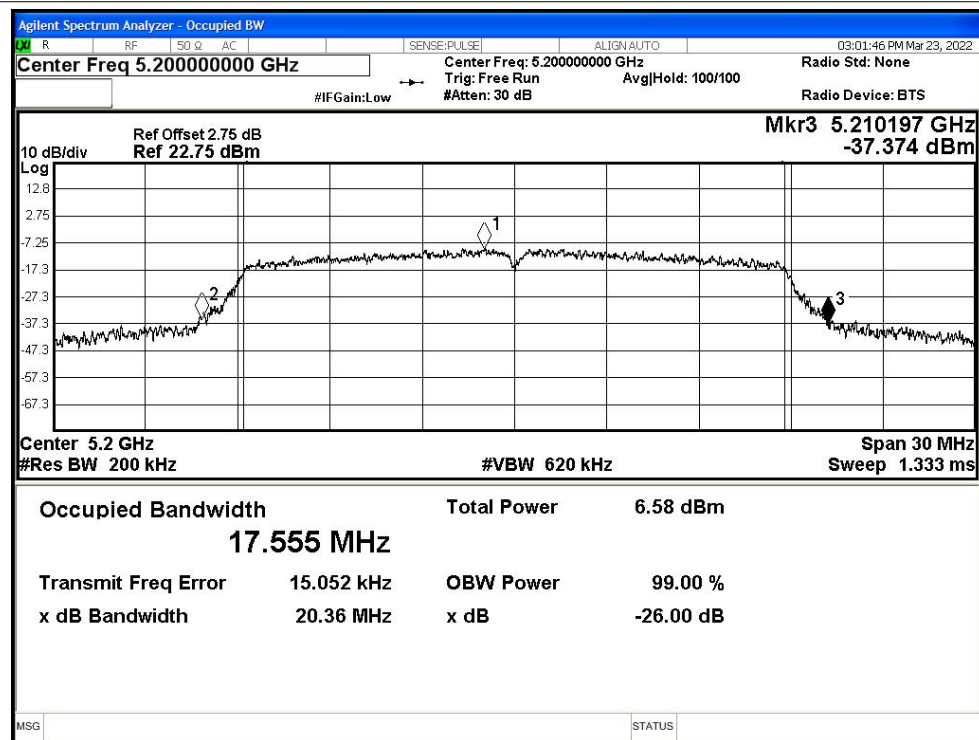




-26dB Bandwidth NVNT ac20 5180MHz Ant1

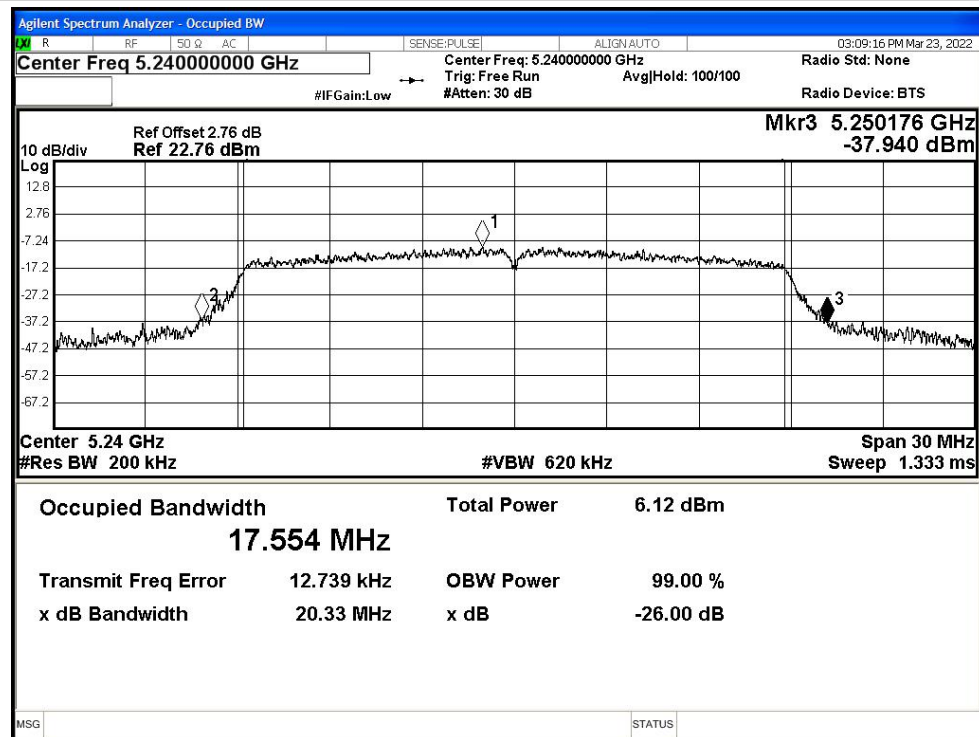


-26dB Bandwidth NVNT ac20 5200MHz Ant1

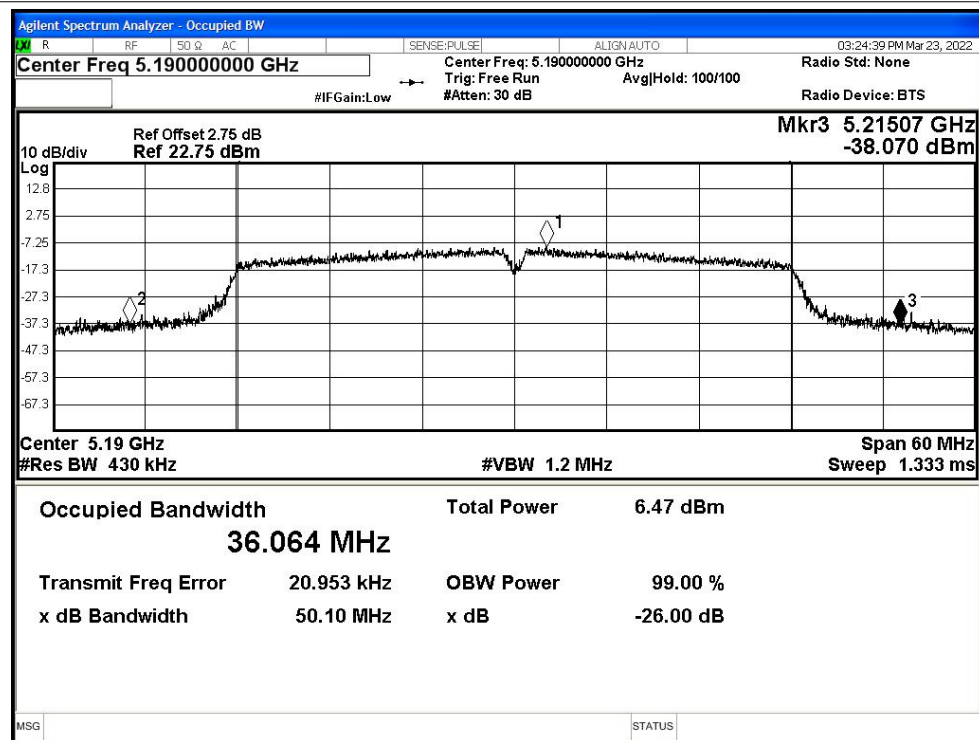


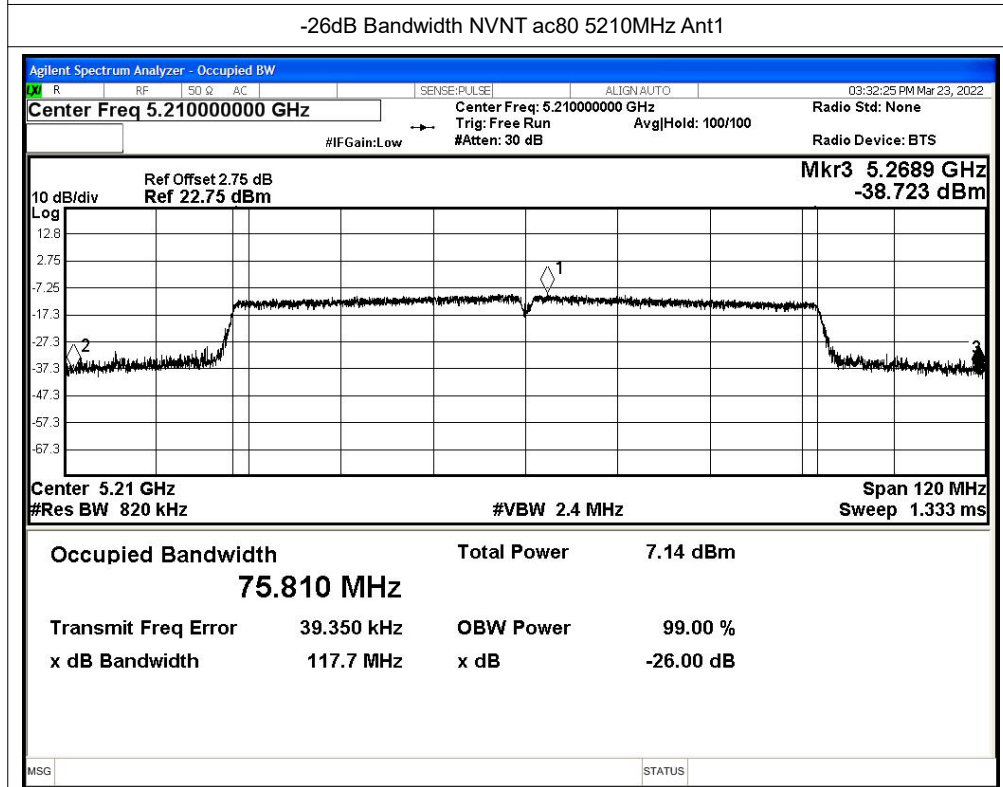
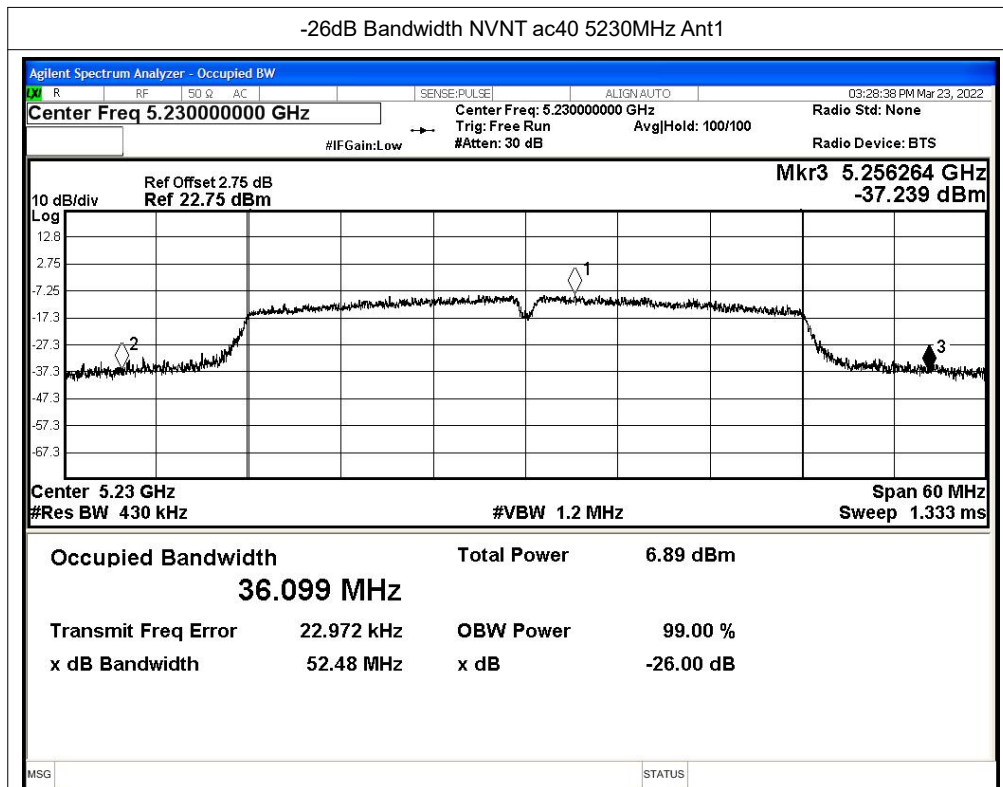


-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1







D.2 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	1.72	0	1.72	24	Pass
NVNT	a	5200	Ant1	1.34	0	1.34	24	Pass
NVNT	a	5240	Ant1	0.88	0	0.88	24	Pass
NVNT	n20	5180	Ant1	1.53	0	1.53	24	Pass
NVNT	n20	5200	Ant1	1.22	0	1.22	24	Pass
NVNT	n20	5240	Ant1	0.84	0	0.84	24	Pass
NVNT	n40	5190	Ant1	0.9	0	0.9	24	Pass
NVNT	n40	5230	Ant1	1.28	0	1.28	24	Pass
NVNT	ac20	5180	Ant1	1.5	0	1.5	24	Pass
NVNT	ac20	5200	Ant1	1.18	0	1.18	24	Pass
NVNT	ac20	5240	Ant1	0.78	0	0.78	24	Pass
NVNT	ac40	5190	Ant1	0.9	0	0.9	24	Pass
NVNT	ac40	5230	Ant1	1.33	0	1.33	24	Pass
NVNT	ac80	5210	Ant1	0.55	0	0.55	24	Pass



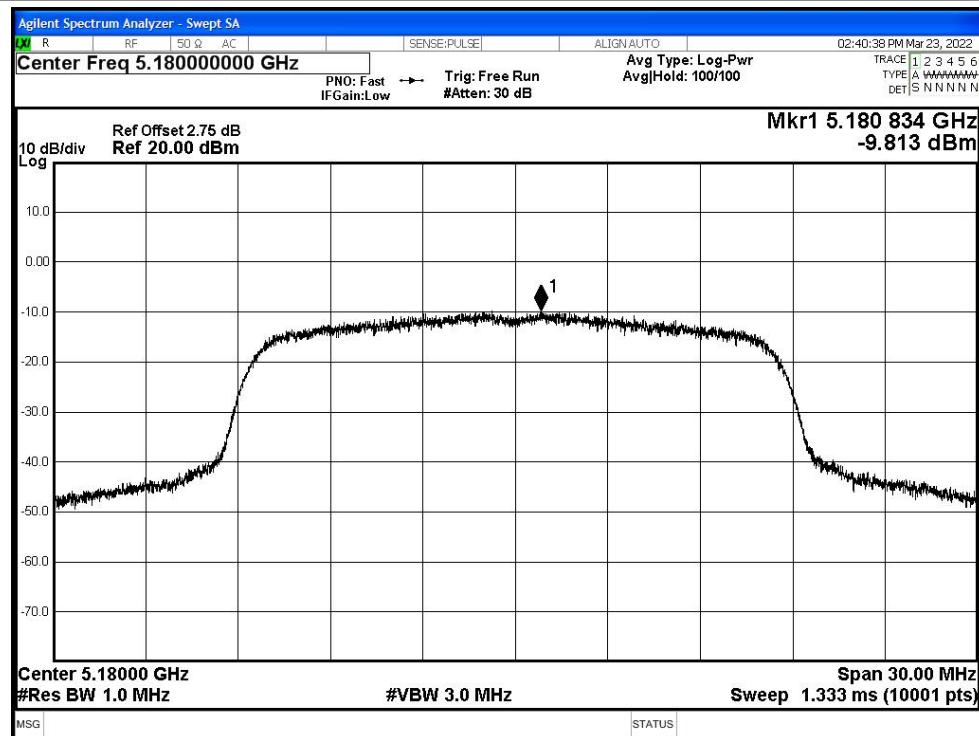
D.3 Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-9.81	0	-9.81	11	Pass
NVNT	a	5200	Ant1	-10.1	0	-10.1	11	Pass
NVNT	a	5240	Ant1	-10.43	0	-10.43	11	Pass
NVNT	n20	5180	Ant1	-10.02	0	-10.02	11	Pass
NVNT	n20	5200	Ant1	-10.29	0	-10.29	11	Pass
NVNT	n20	5240	Ant1	-10.53	0	-10.53	11	Pass
NVNT	n40	5190	Ant1	-13.3	0	-13.3	11	Pass
NVNT	n40	5230	Ant1	-13.04	0	-13.04	11	Pass
NVNT	ac20	5180	Ant1	-9.67	0	-9.67	11	Pass
NVNT	ac20	5200	Ant1	-10.32	0	-10.32	11	Pass
NVNT	ac20	5240	Ant1	-10.81	0	-10.81	11	Pass
NVNT	ac40	5190	Ant1	-13.58	0	-13.58	11	Pass
NVNT	ac40	5230	Ant1	-13	0	-13	11	Pass
NVNT	ac80	5210	Ant1	-17.46	0	-17.46	11	Pass

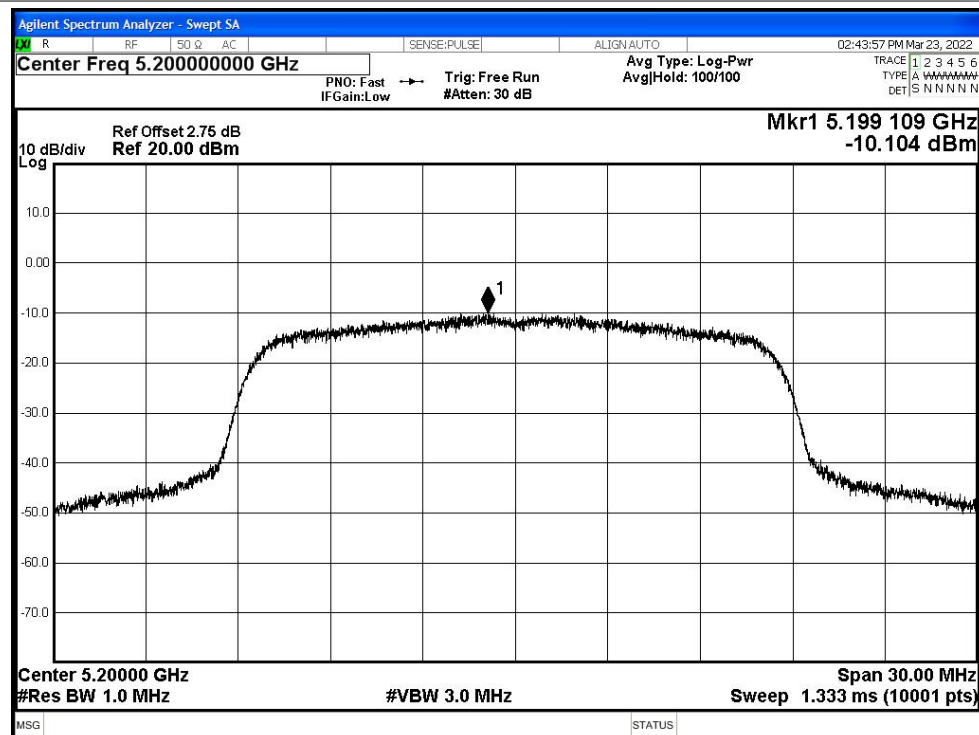


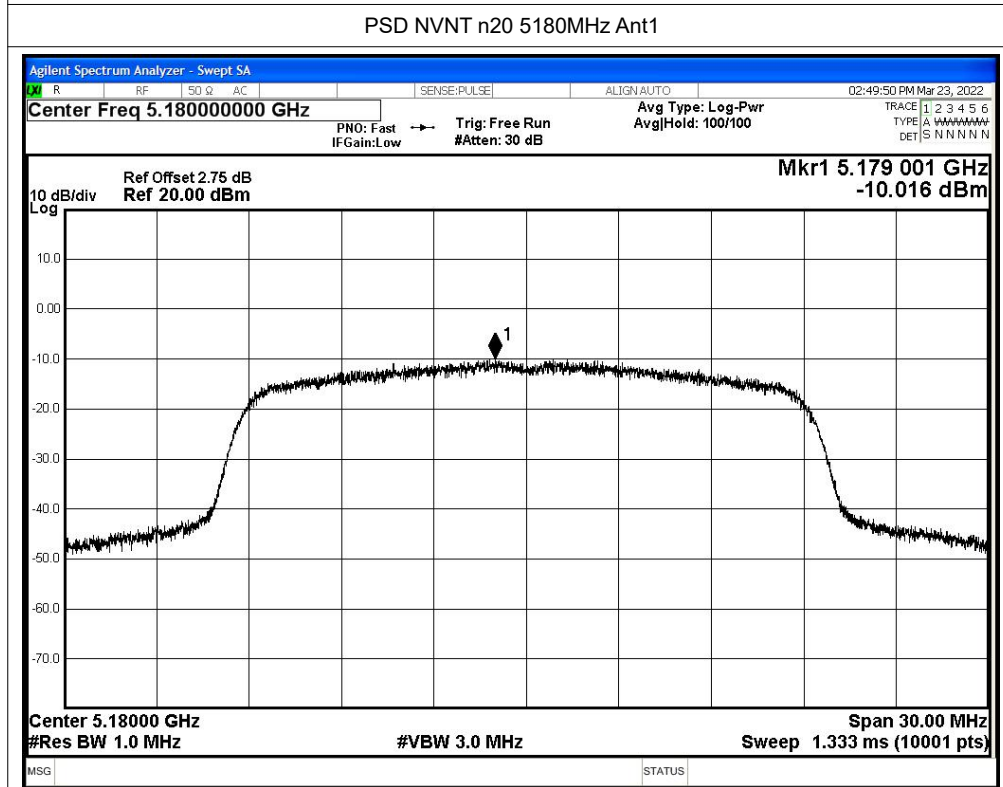
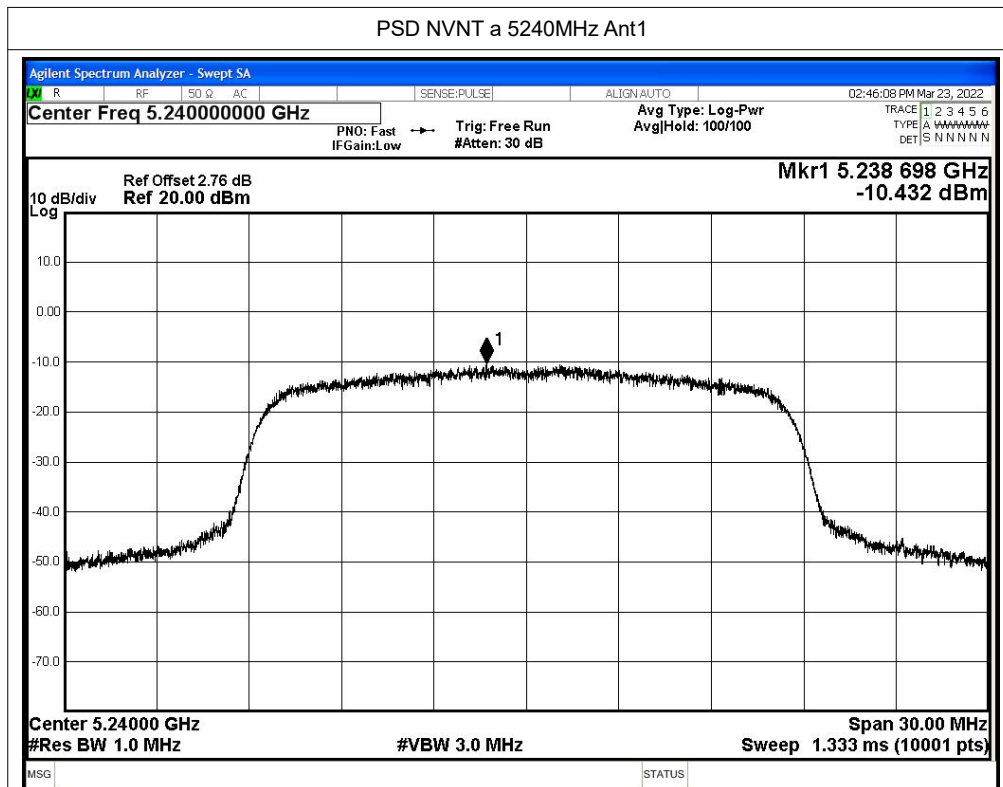
Test Graphs

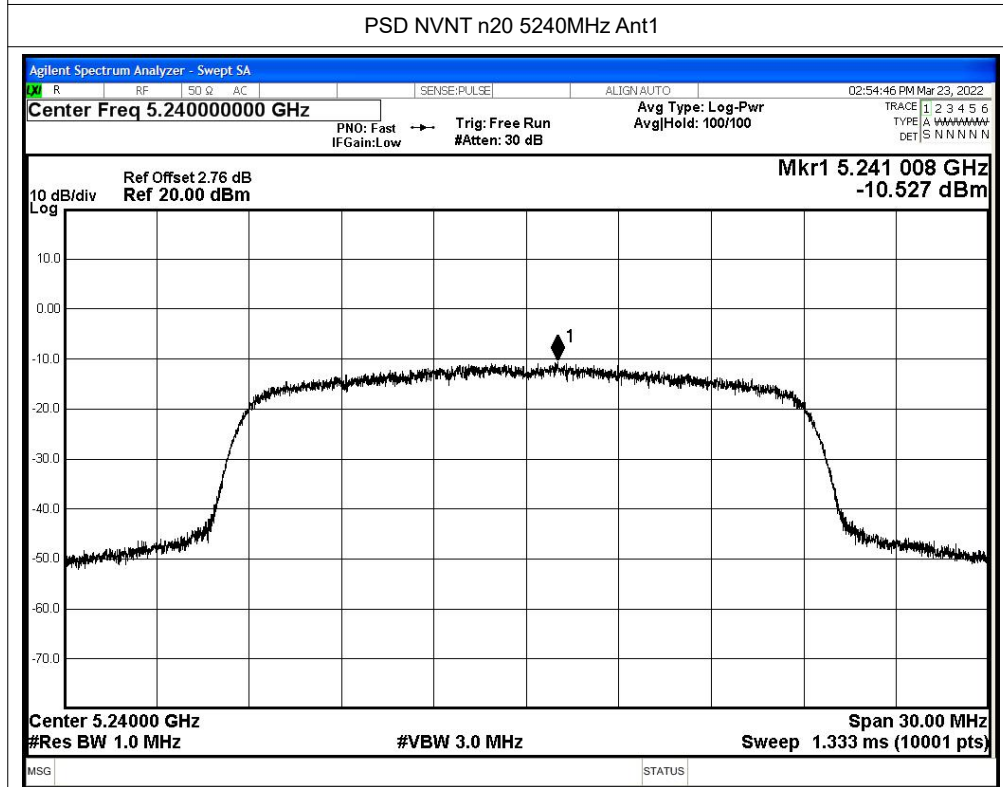
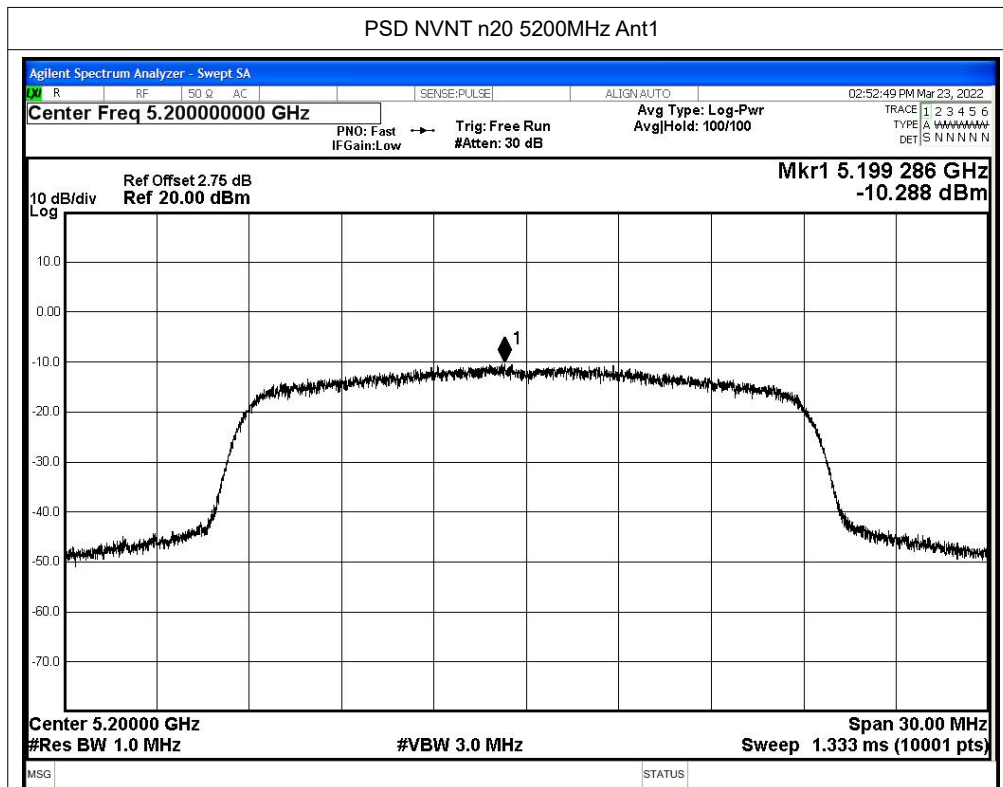
PSD NVNT a 5180MHz Ant1

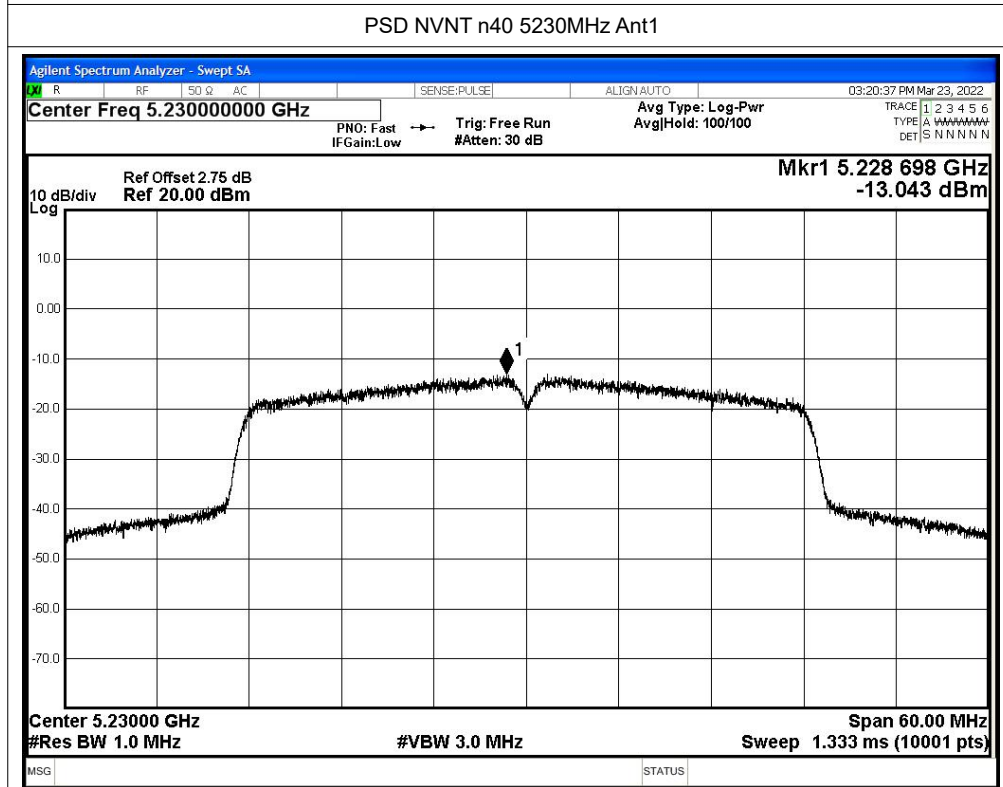
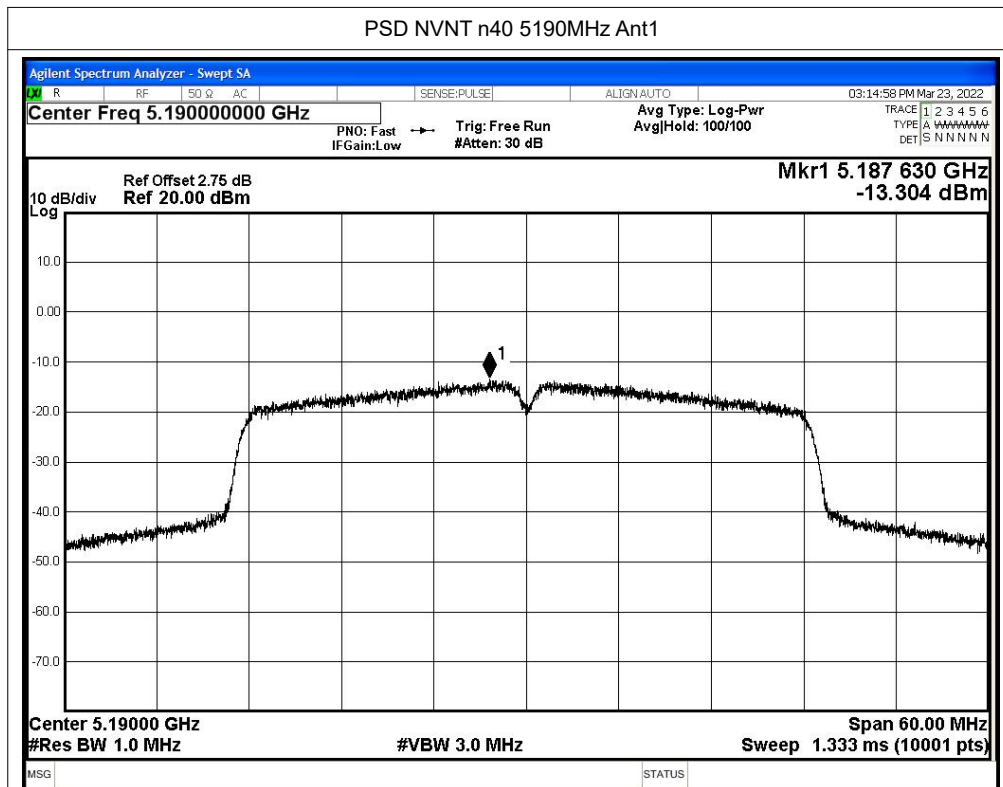


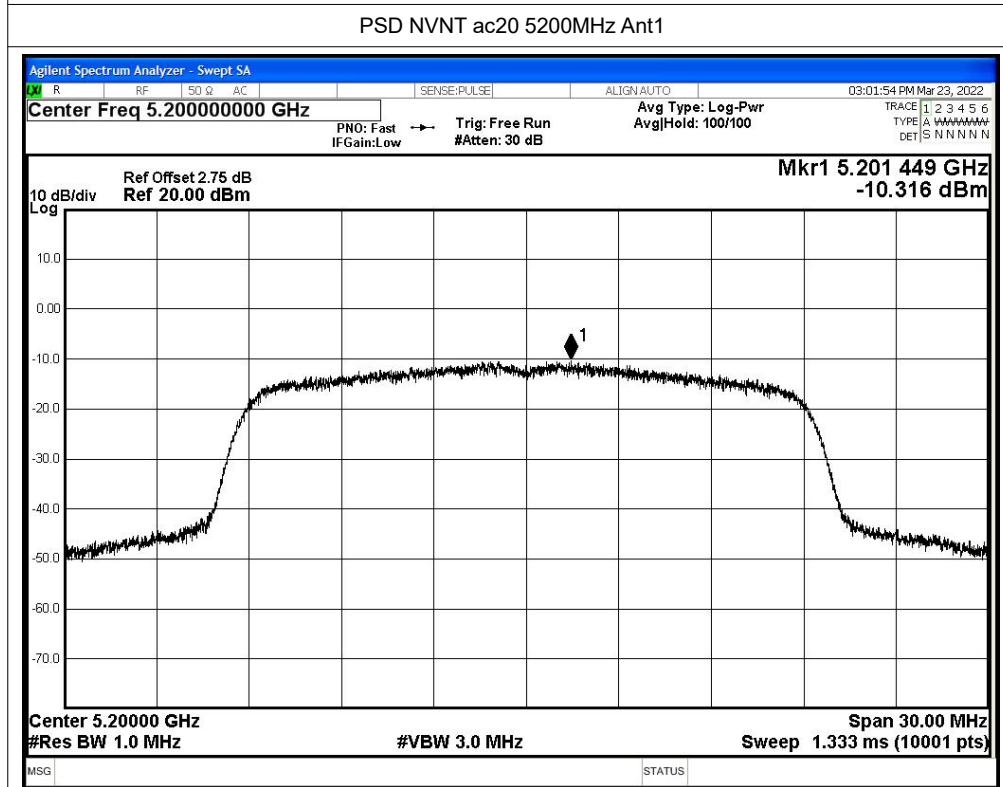
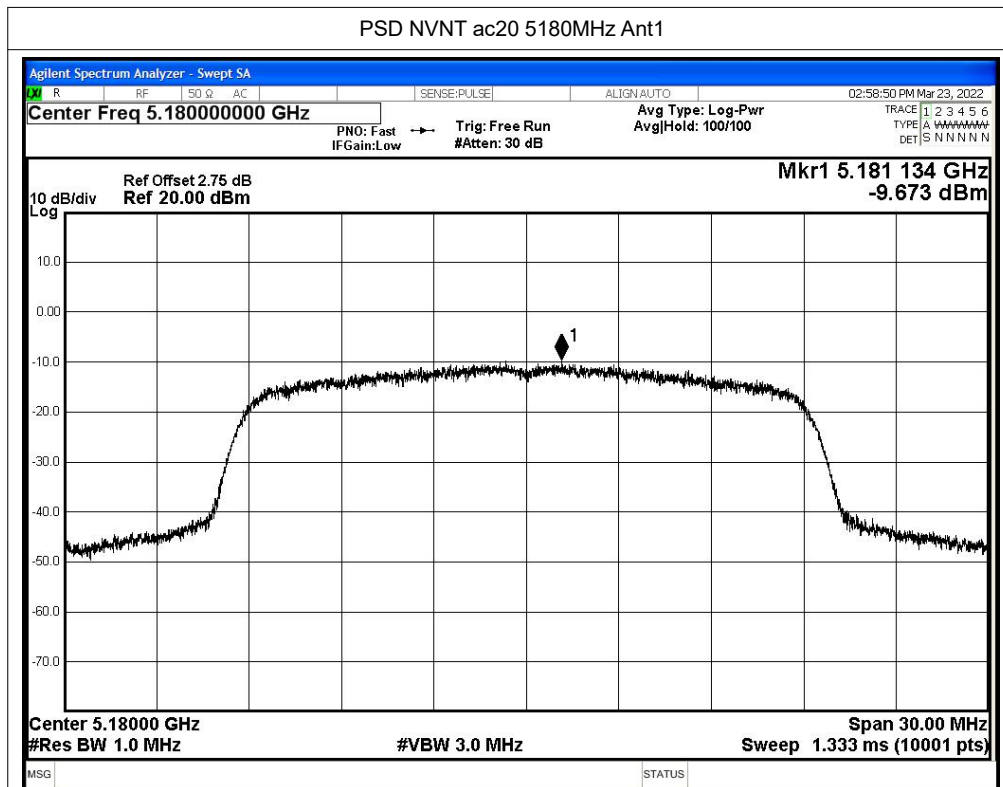
PSD NVNT a 5200MHz Ant1

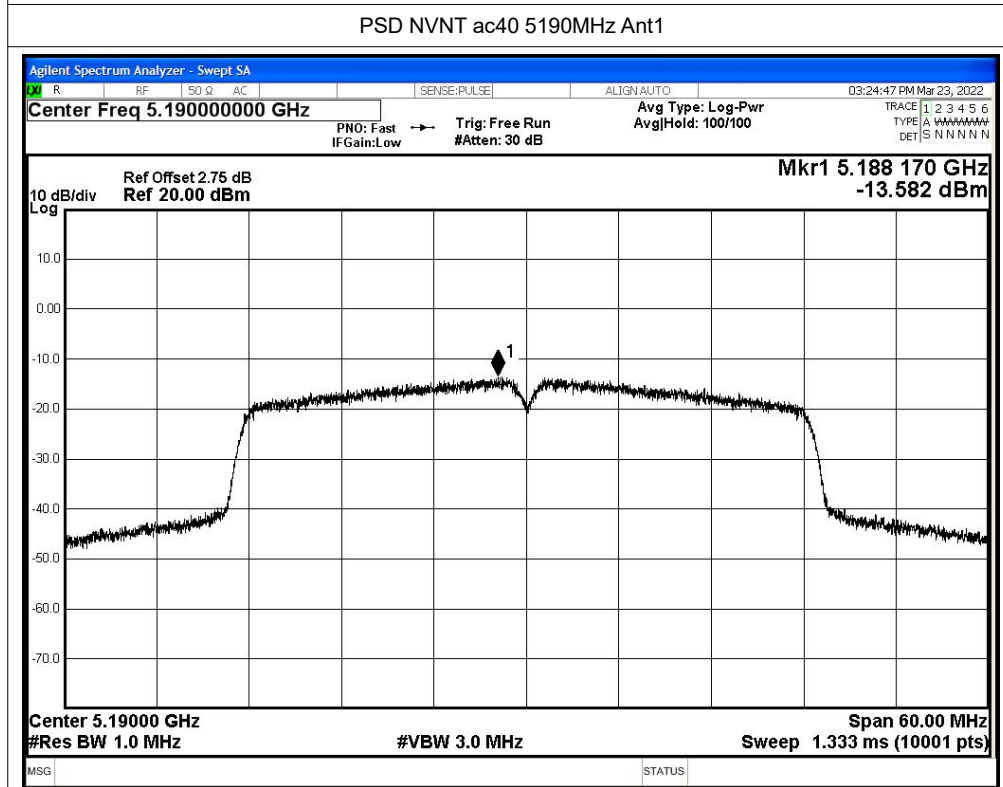
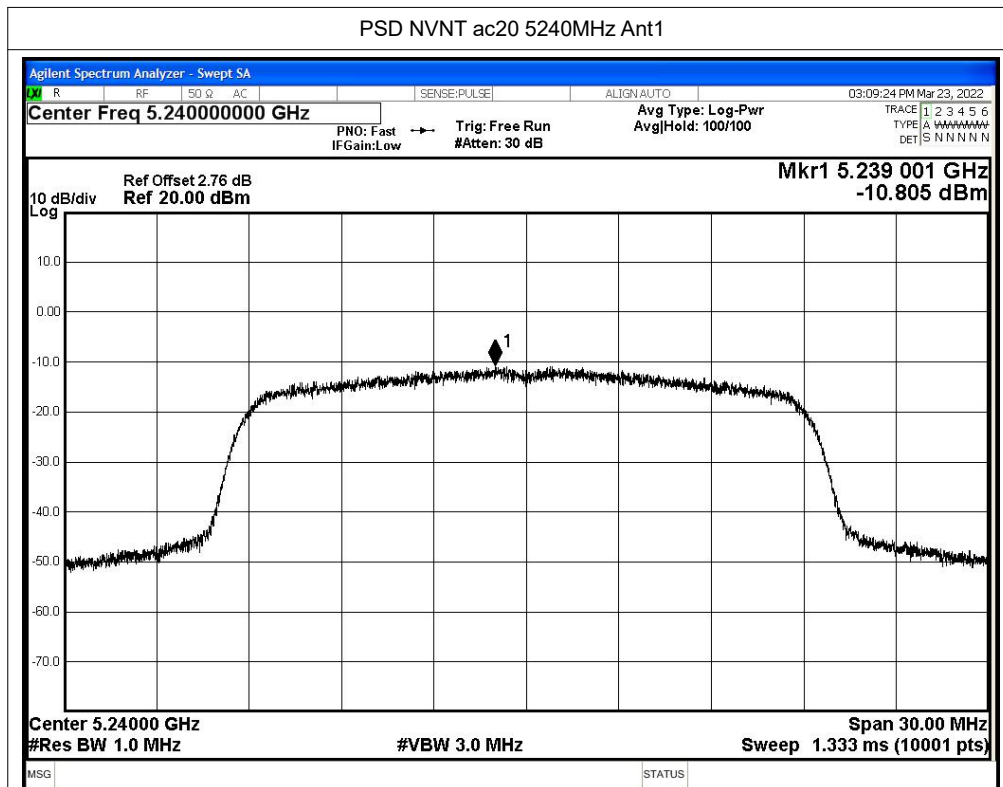


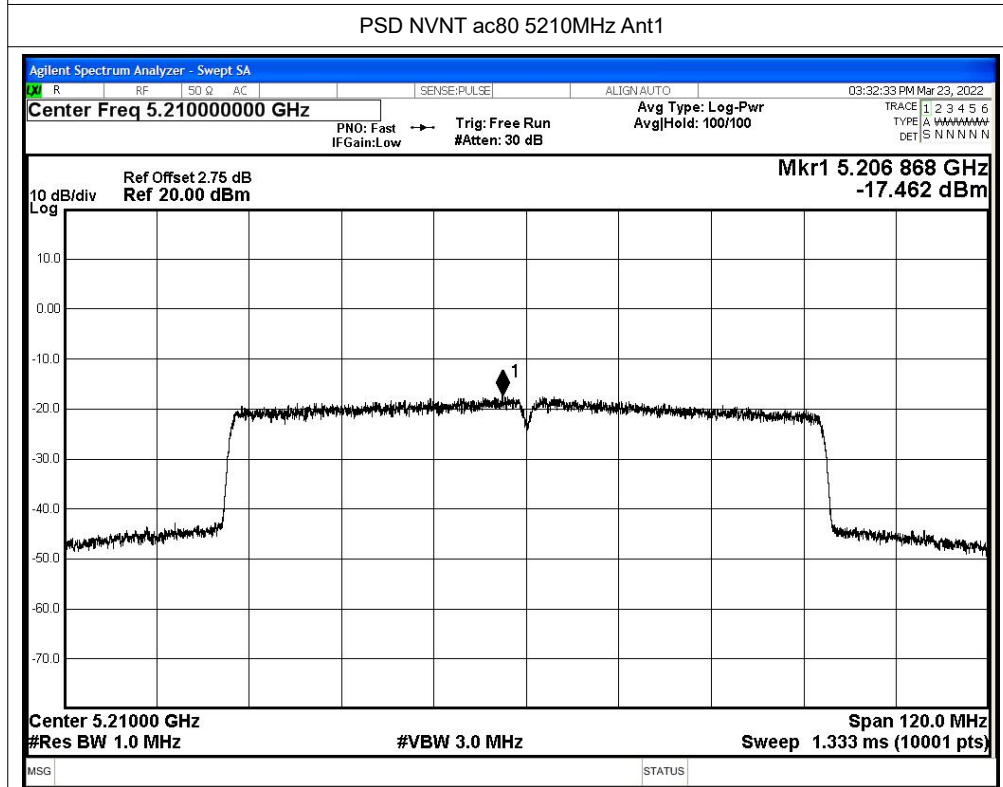
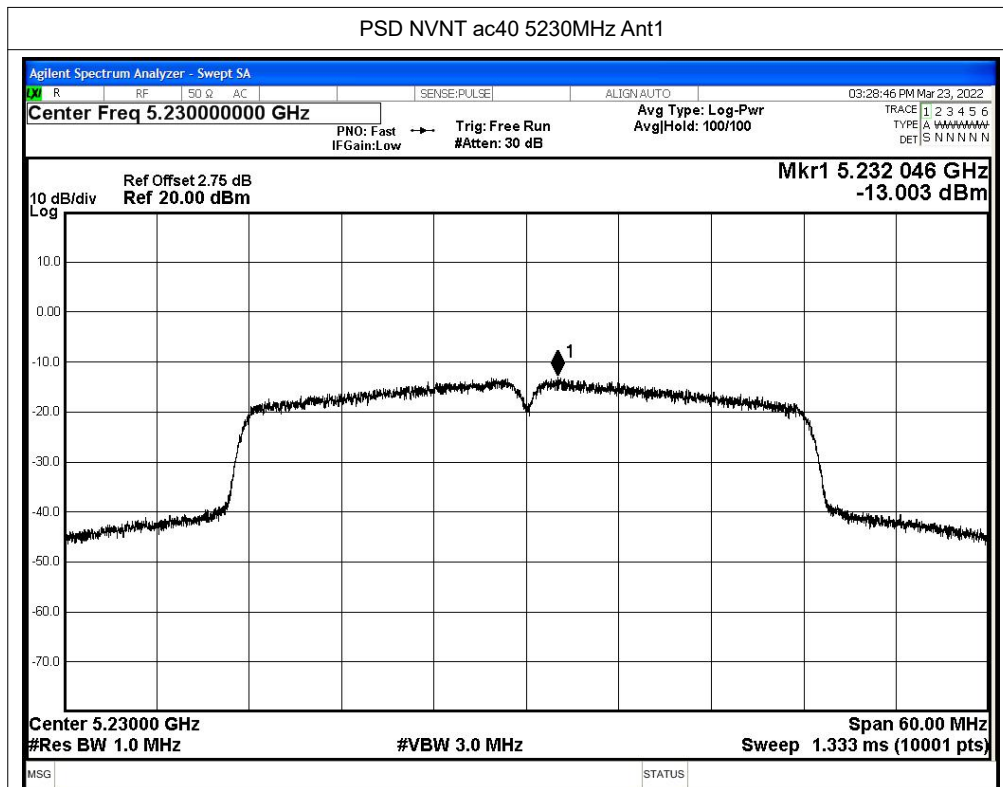














D.4 Emissions in Restricted Bands

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-51.82	2	45.41	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-60.78	2	36.45	Average	54	Pass
NVNT	a	5180	Ant1	5074.7	-46.66	2	50.57	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-58.59	2	38.64	Average	54	Pass
NVNT	a	5180	Ant1	5150	-49.23	2	48	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-58.68	2	38.55	Average	54	Pass
NVNT	a	5240	Ant1	5350	-51.19	2	46.04	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-60.02	2	37.21	Average	54	Pass
NVNT	a	5240	Ant1	5383.68	-46.92	2	50.31	Peak	68.2	Pass
NVNT	a	5240	Ant1	5389.2	-59.63	2	37.6	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.78	2	46.45	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-59.97	2	37.26	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-51.77	2	45.46	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-60.77	2	36.46	Average	54	Pass
NVNT	n20	5180	Ant1	5095.7	-45.97	2	51.26	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5148.2	-58.57	2	38.66	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-48.18	2	49.05	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-58.42	2	38.81	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.72	2	48.51	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-60.05	2	37.18	Average	54	Pass
NVNT	n20	5240	Ant1	5358	-47.68	2	49.55	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5402.88	-59.62	2	37.61	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.49	2	46.74	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-59.86	2	37.37	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-51.6	2	45.63	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-60.59	2	36.64	Average	54	Pass
NVNT	n40	5190	Ant1	5148.24	-40.11	2	57.12	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-51.9	2	45.33	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-42.17	2	55.06	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-51.28	2	45.95	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-51.7	2	45.53	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-59.85	2	37.38	Average	54	Pass
NVNT	n40	5230	Ant1	5459.19	-48.22	2	49.01	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5397.9	-59.4	2	37.83	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.47	2	46.76	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-59.7	2	37.53	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-50.68	2	46.55	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-60.65	2	36.58	Average	54	Pass
NVNT	ac20	5180	Ant1	5068.4	-47.22	2	50.01	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.2	-58.43	2	38.8	Average	54	Pass

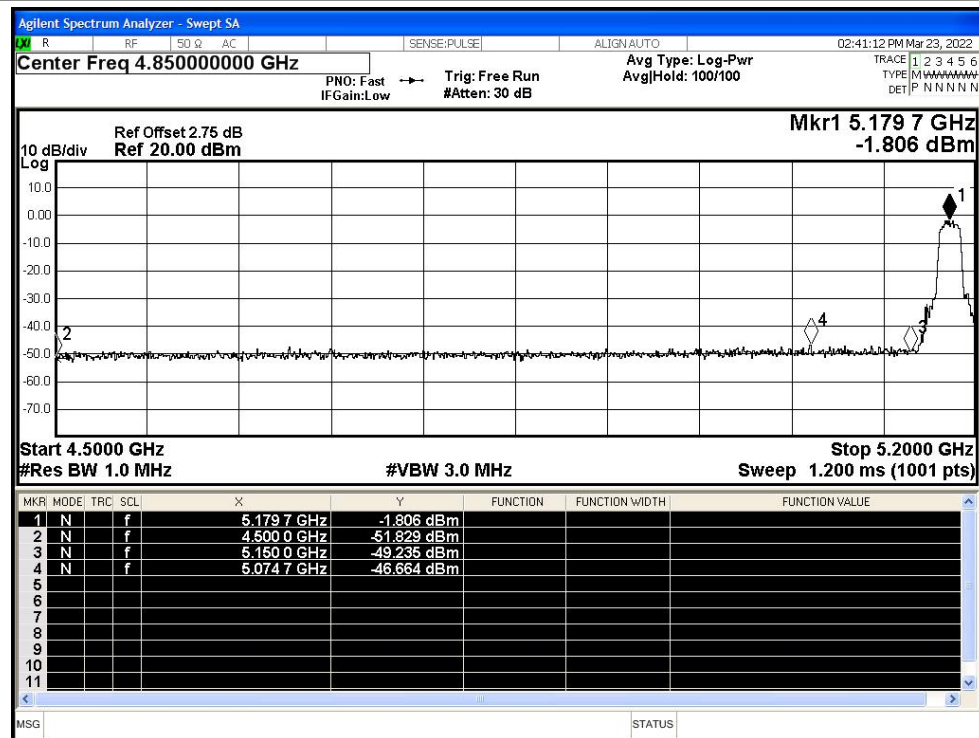


NVNT	ac20	5180	Ant1	5150	-49.65	2	47.58	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-58.6	2	38.63	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-50.16	2	47.07	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-59.62	2	37.61	Average	54	Pass
NVNT	ac20	5240	Ant1	5406	-46.98	2	50.25	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5368.32	-59.28	2	37.95	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-51.04	2	46.19	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-59.93	2	37.3	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-51.6	2	45.63	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-60.37	2	36.86	Average	54	Pass
NVNT	ac40	5190	Ant1	5146.05	-38.09	2	59.14	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-51.05	2	46.18	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-39.51	2	57.72	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-50.53	2	46.7	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.34	2	47.89	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-59.68	2	37.55	Average	54	Pass
NVNT	ac40	5230	Ant1	5418.15	-48.18	2	49.05	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5390.61	-58.95	2	38.28	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-50.48	2	46.75	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-59.69	2	37.54	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-47.51	2	49.72	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-58.95	2	38.28	Average	54	Pass
NVNT	ac80	5210	Ant1	5423.7	-46.73	2	50.5	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5439.21	-58.21	2	39.02	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-48.97	2	48.26	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-59.07	2	38.16	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-51.16	2	46.07	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-59.68	2	37.55	Average	54	Pass
NVNT	ac80	5210	Ant1	5143.85	-33.85	2	63.38	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-44.83	2	52.4	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-36.63	2	60.6	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-45.15	2	52.08	Average	54	Pass

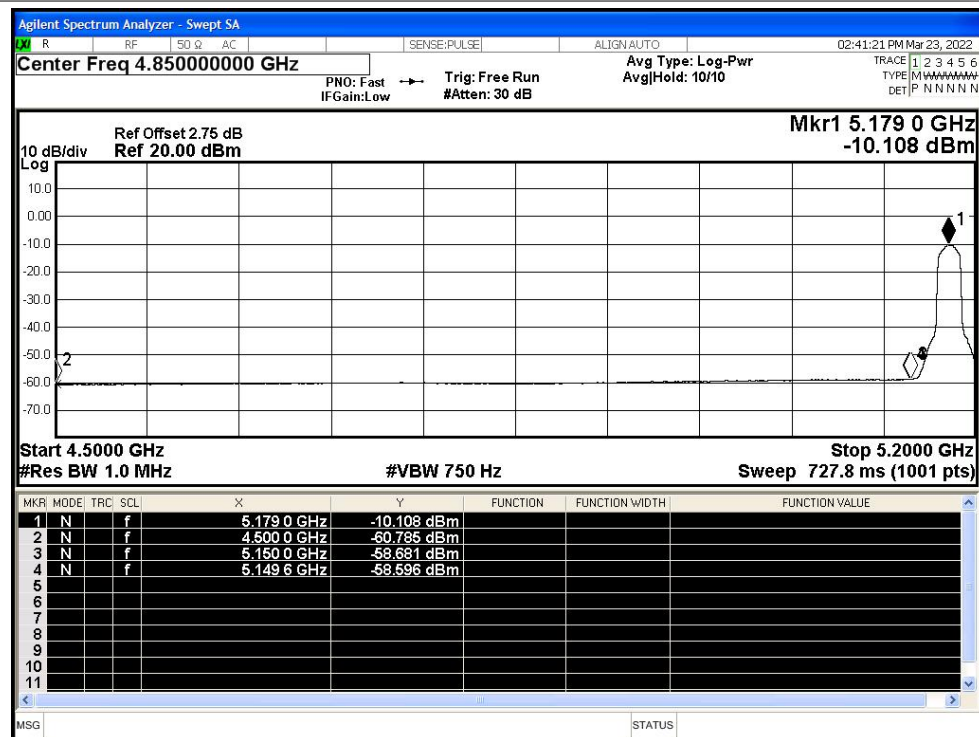


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

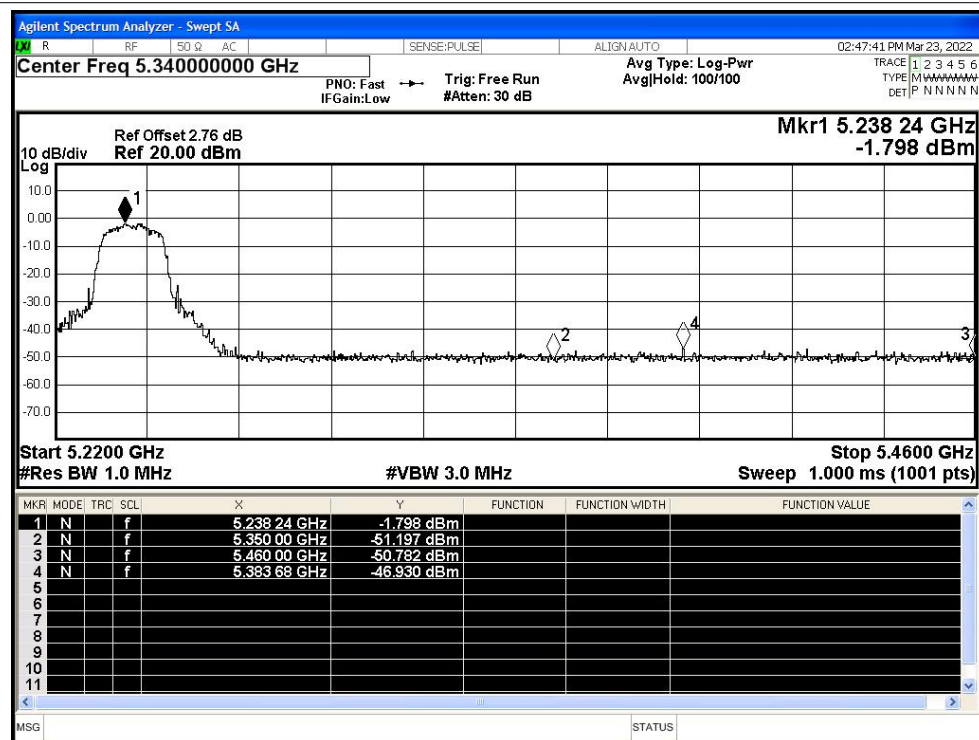


Restrict Band NVNT a 5180MHz Ant1 Average

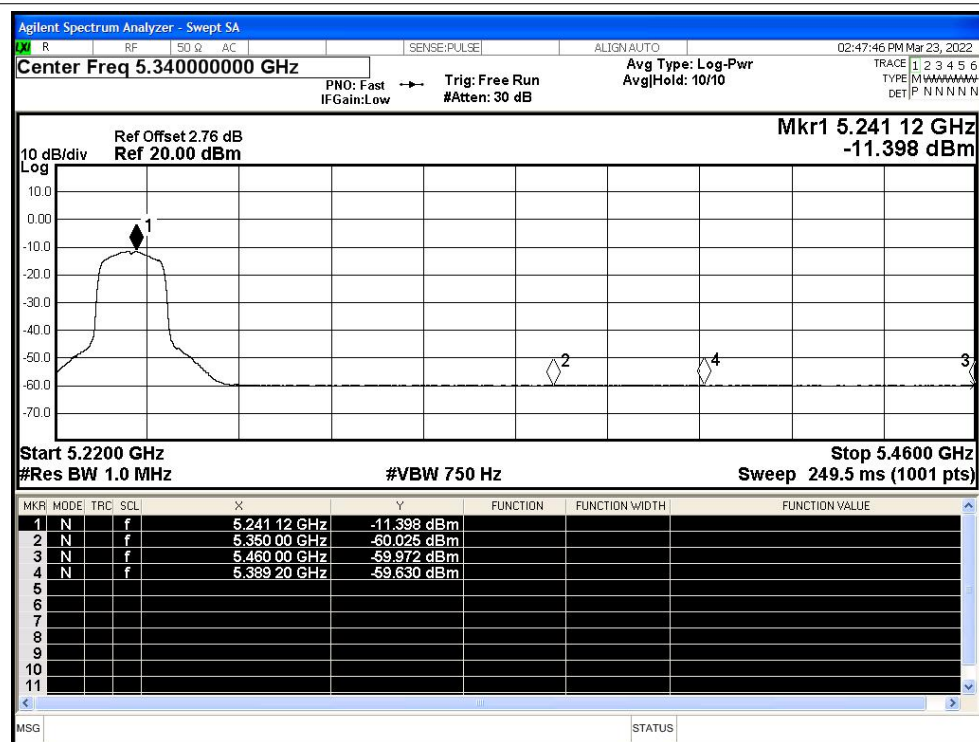


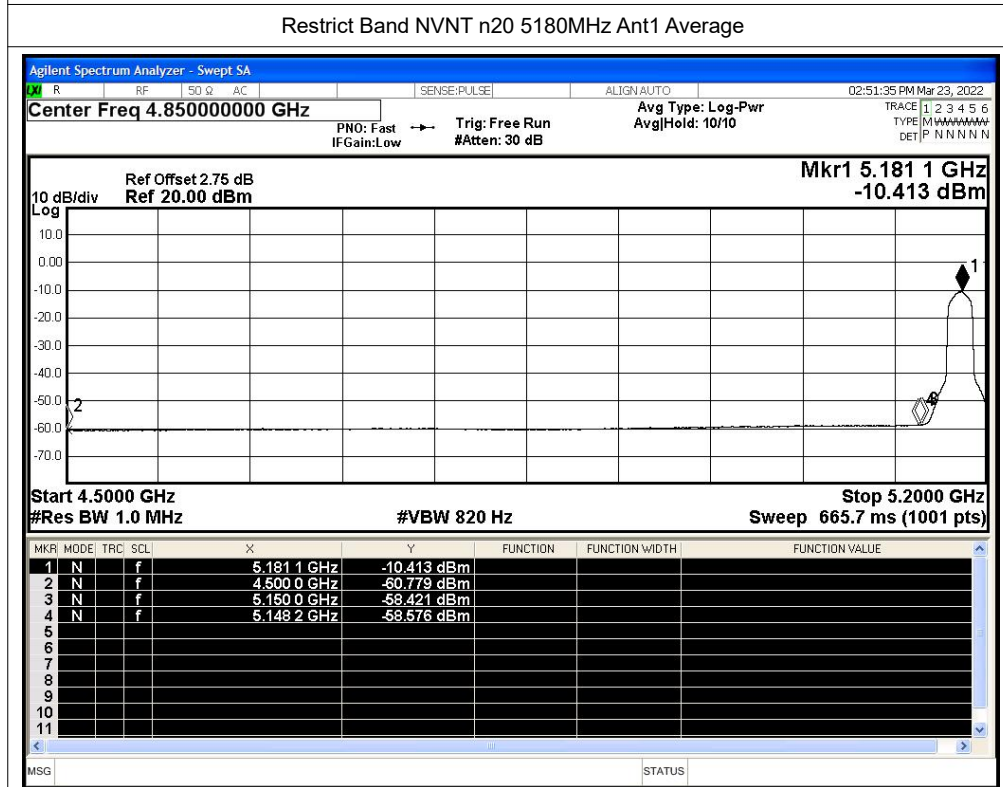
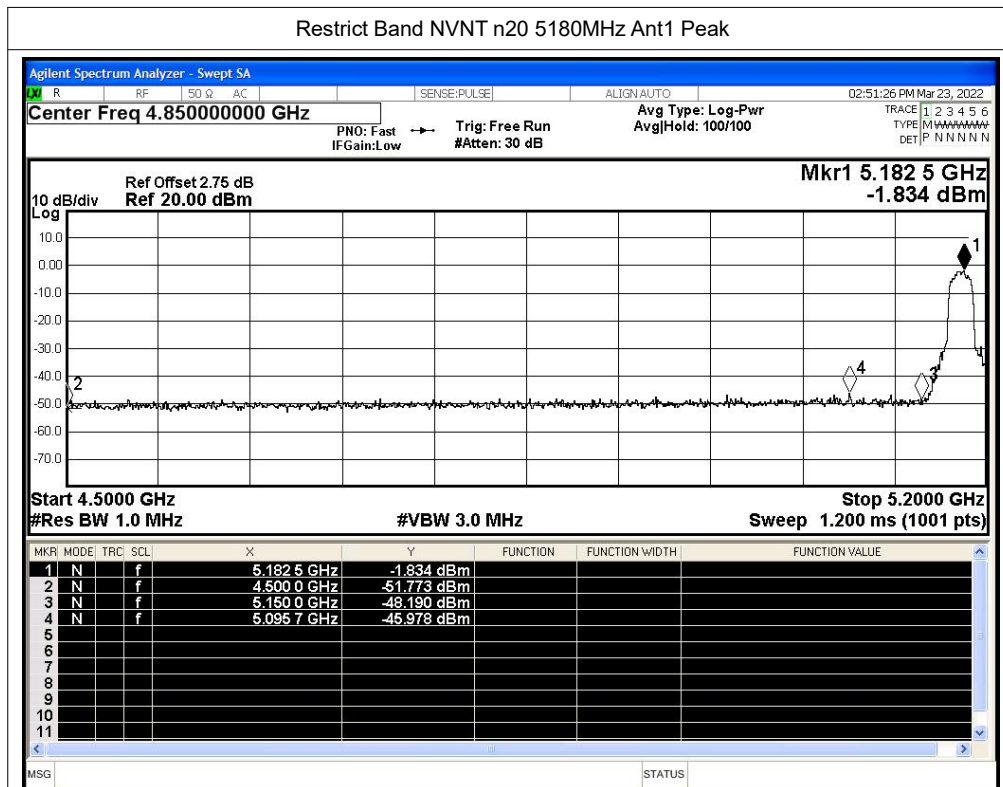


Restrict Band NVNT a 5240MHz Ant1 Peak



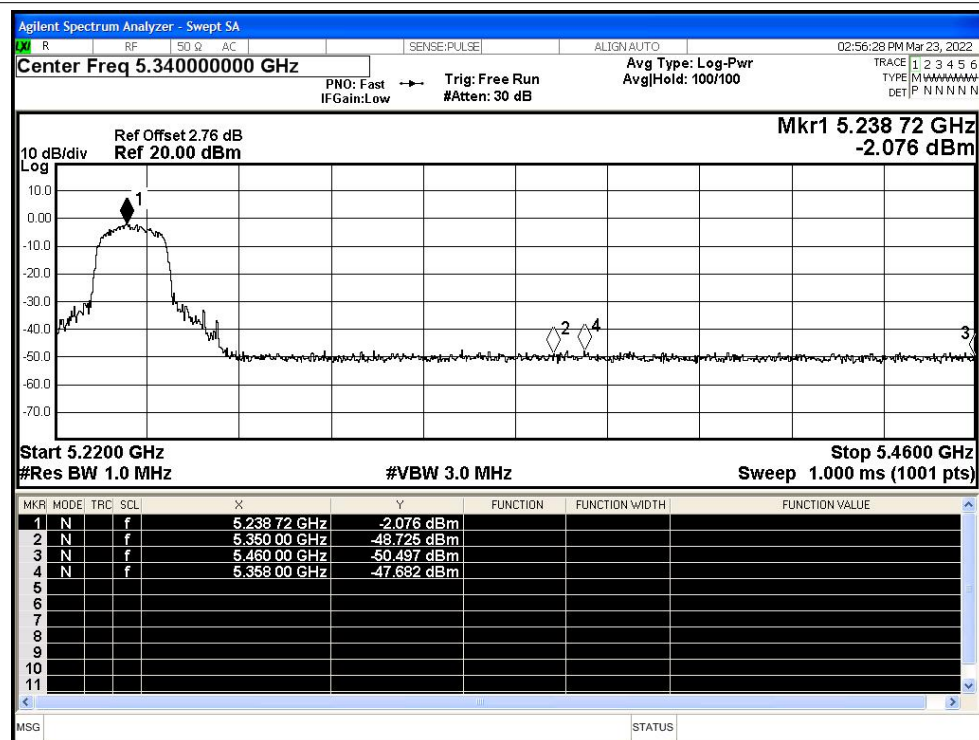
Restrict Band NVNT a 5240MHz Ant1 Average



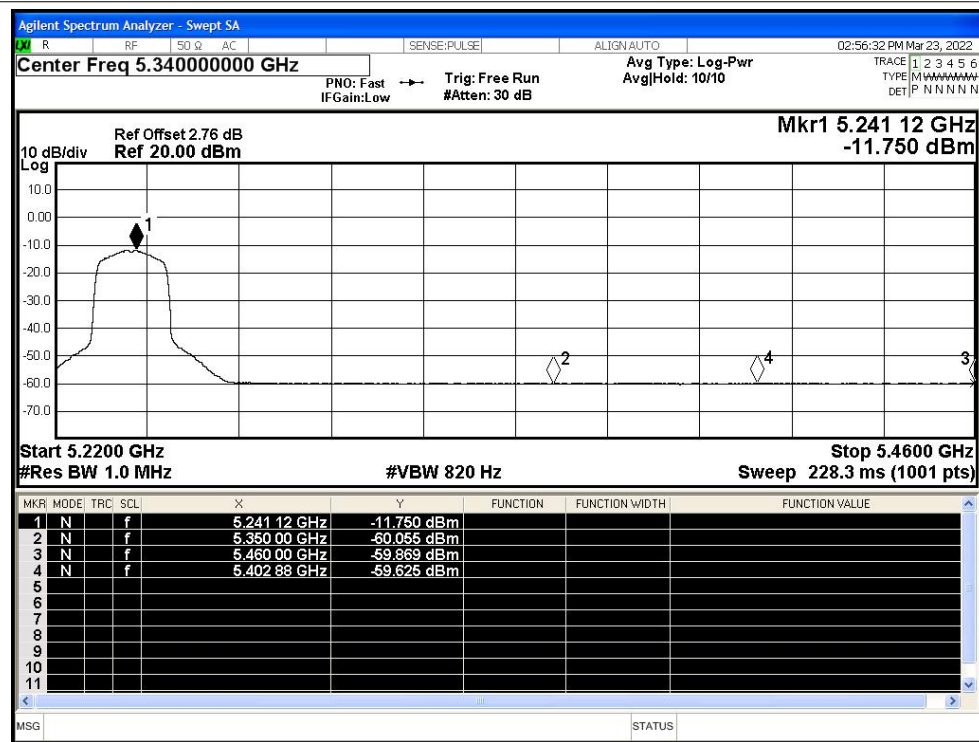




Restrict Band NVNT n20 5240MHz Ant1 Peak

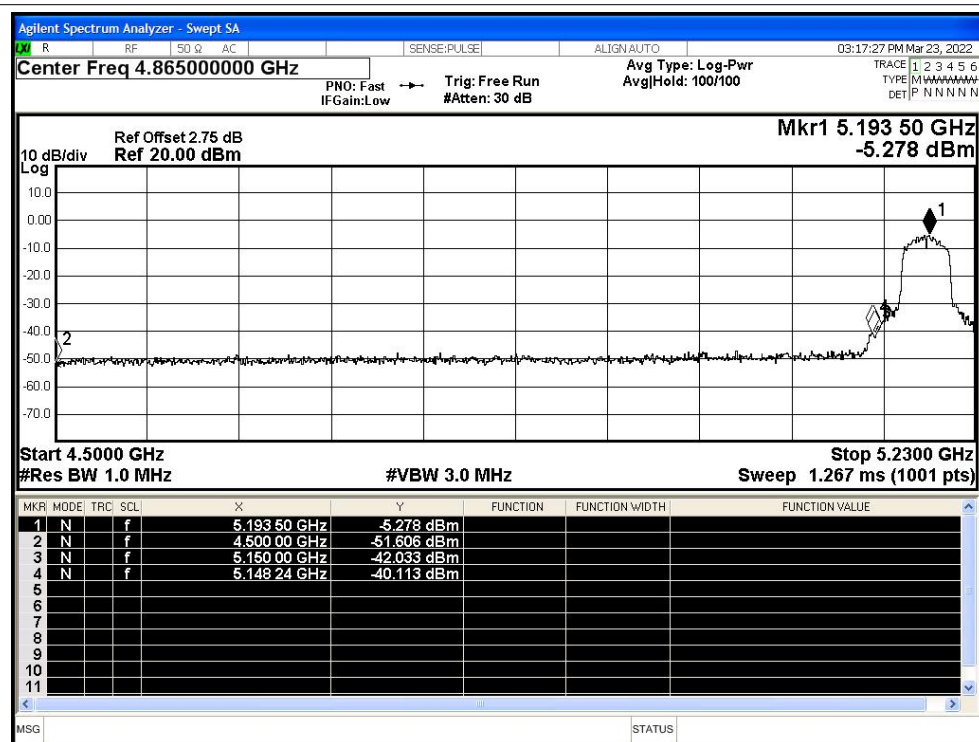


Restrict Band NVNT n20 5240MHz Ant1 Average

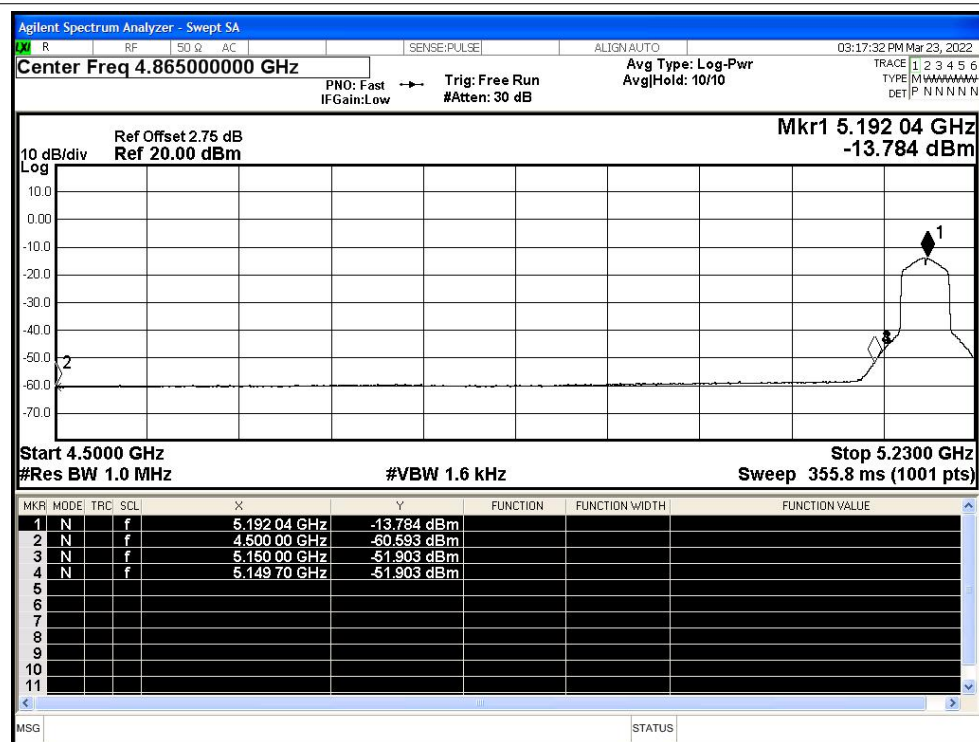




Restrict Band NVNT n40 5190MHz Ant1 Peak

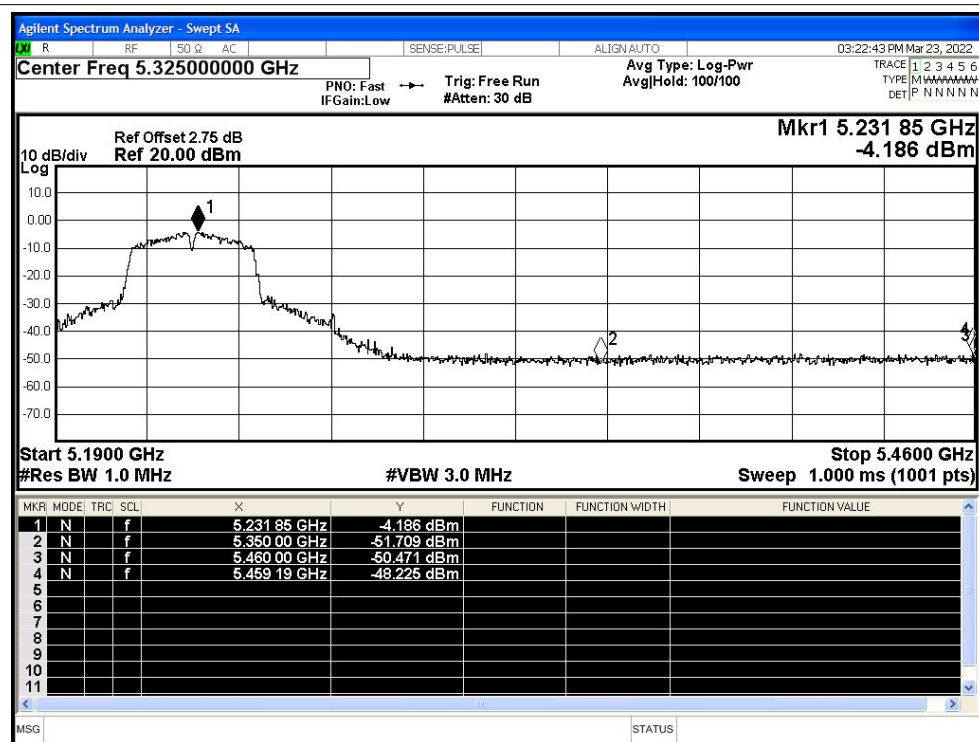


Restrict Band NVNT n40 5190MHz Ant1 Average

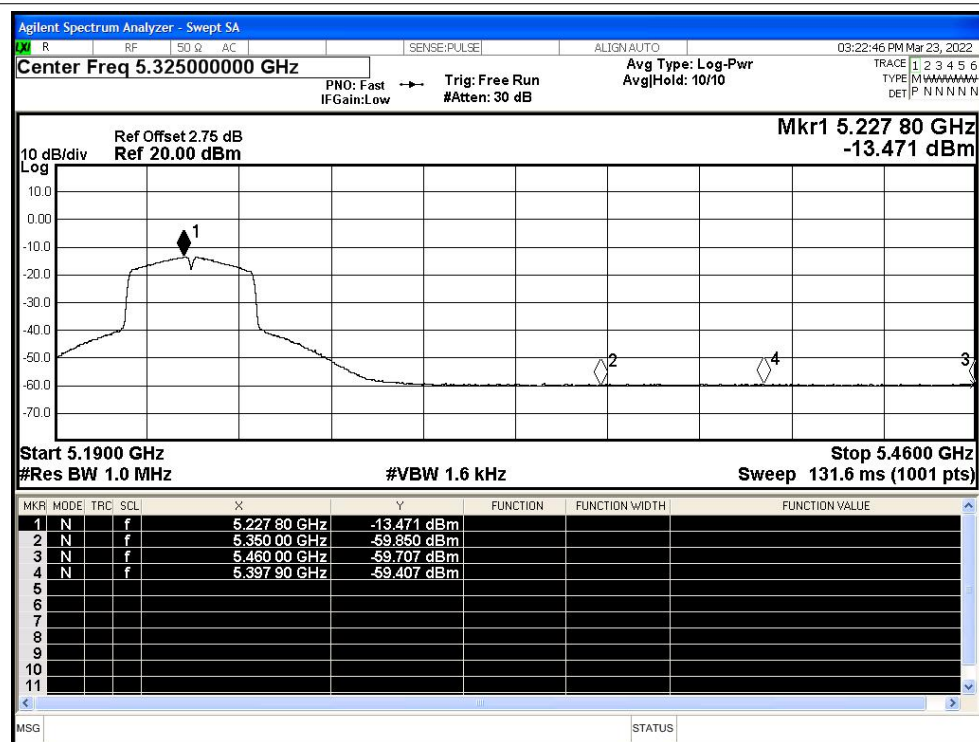


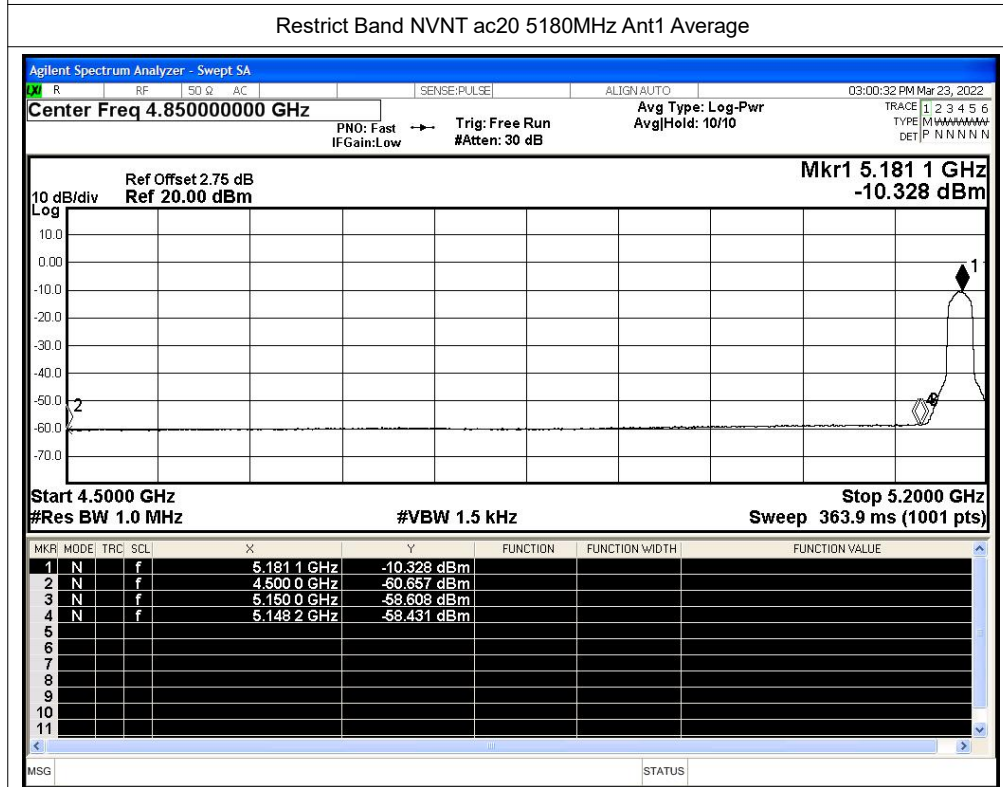
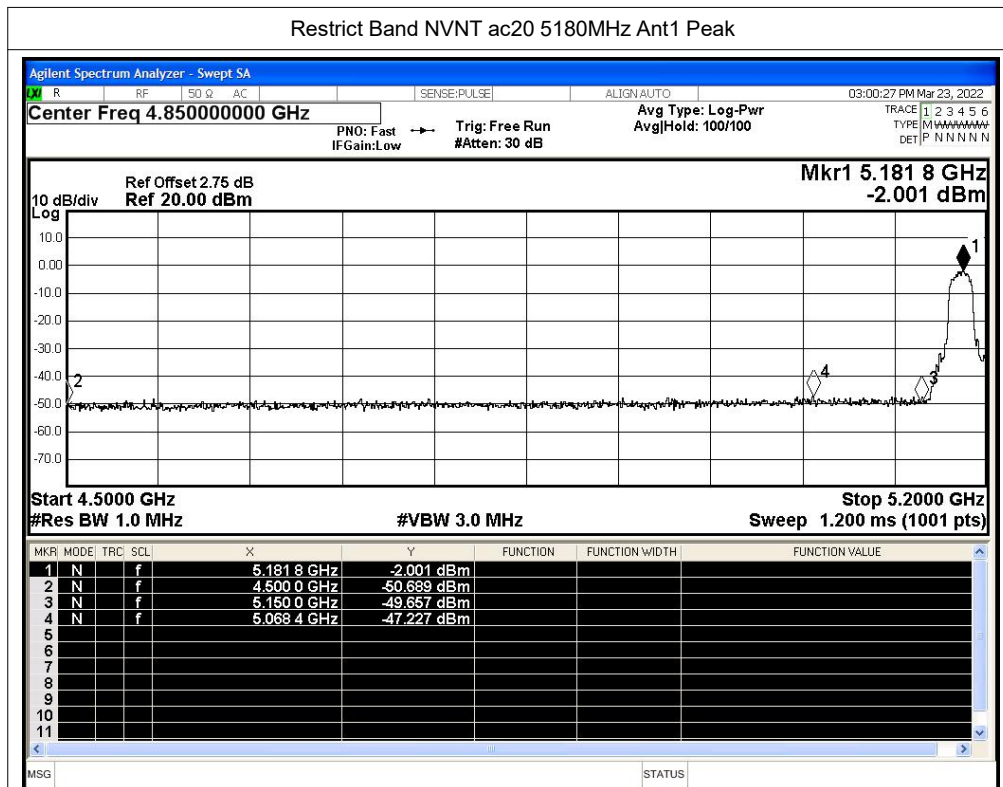


Restrict Band NVNT n40 5230MHz Ant1 Peak



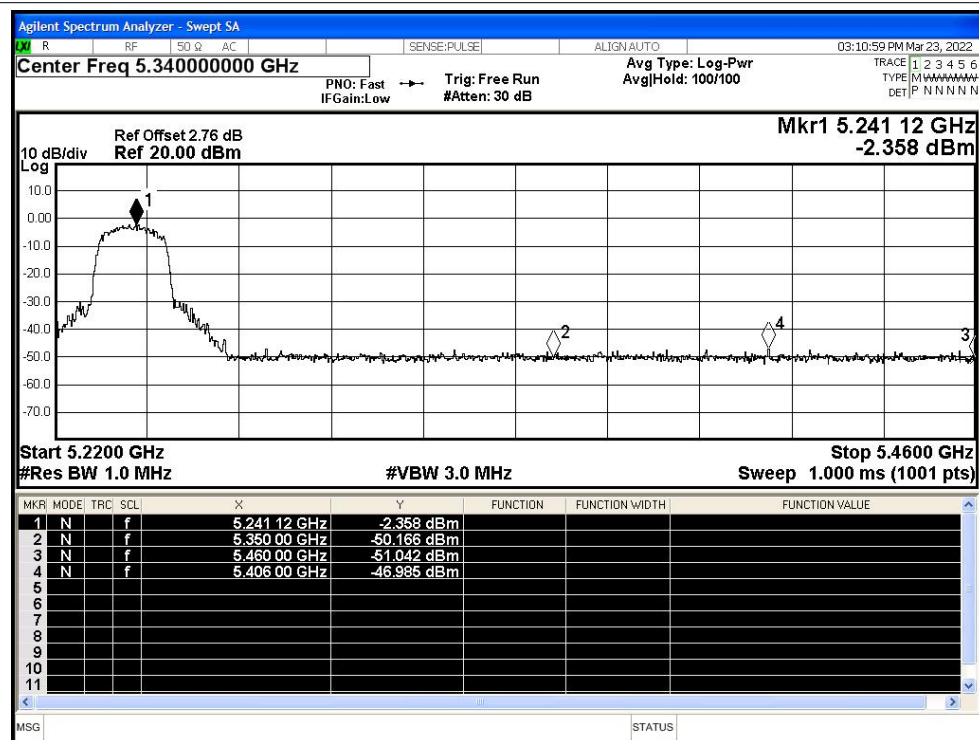
Restrict Band NVNT n40 5230MHz Ant1 Average







Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average

