Appendix C

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: HOME THEATER PROJECTOR

Test Model: K2

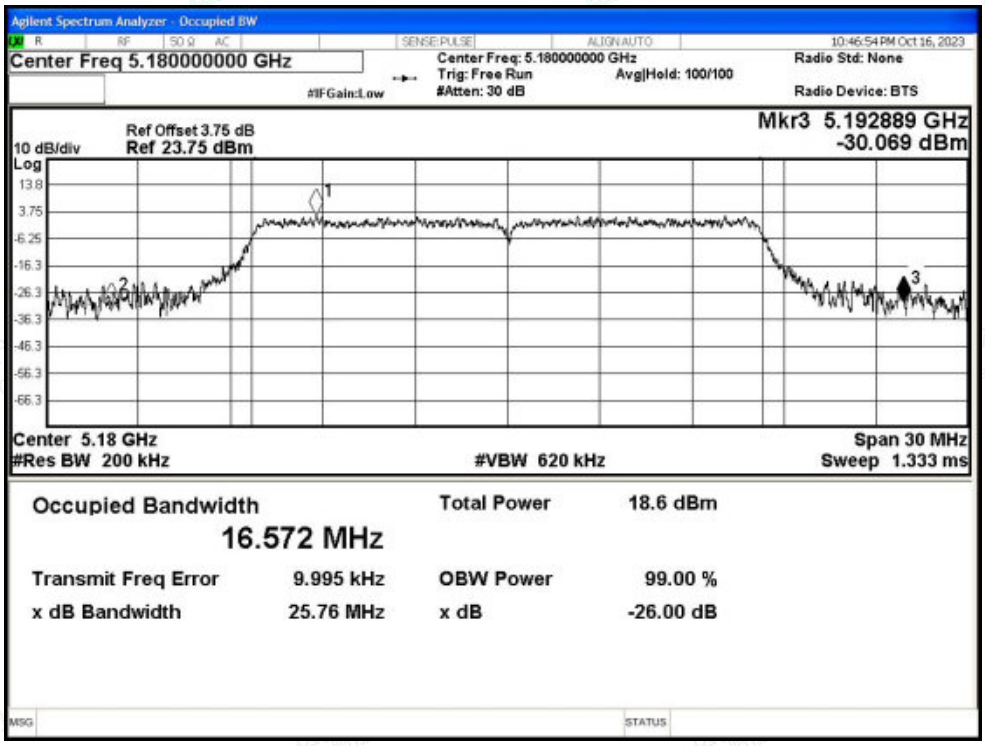
Environmental Conditions

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

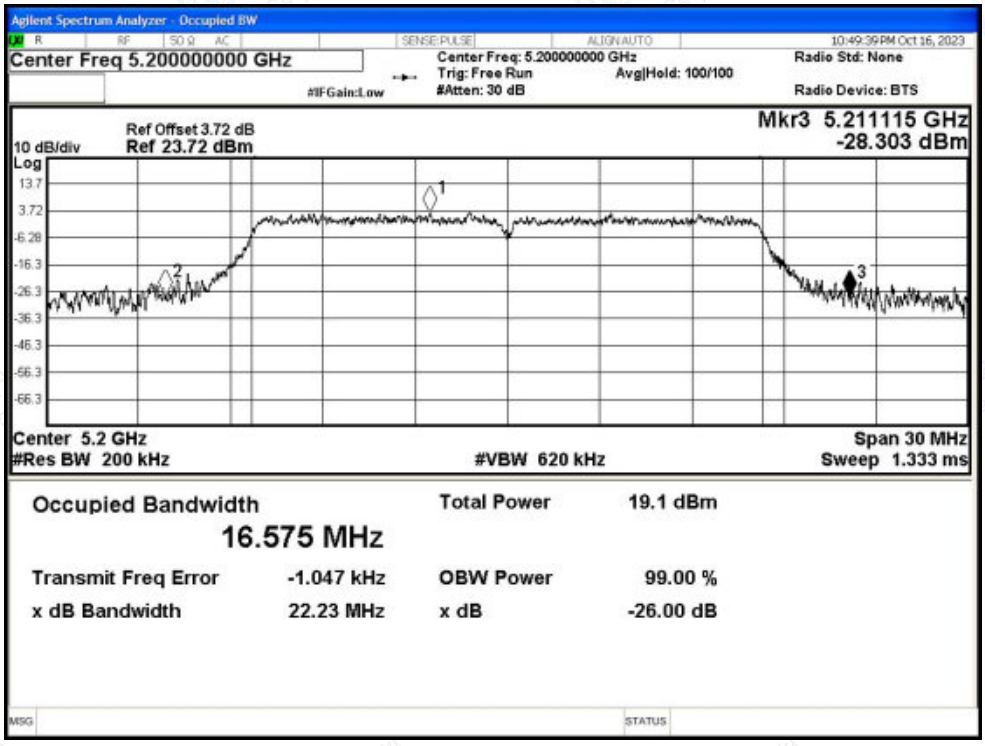
C.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	25.758	---	Pass
NVNT	a	5200	Ant1	22.232	---	Pass
NVNT	a	5240	Ant1	22.329	---	Pass
NVNT	n20	5180	Ant1	27.88	---	Pass
NVNT	n20	5200	Ant1	26.325	---	Pass
NVNT	n20	5240	Ant1	25.621	---	Pass
NVNT	n40	5190	Ant1	46.655	---	Pass
NVNT	n40	5230	Ant1	48.307	---	Pass
NVNT	ac20	5180	Ant1	21.796	---	Pass
NVNT	ac20	5200	Ant1	25.024	---	Pass
NVNT	ac20	5240	Ant1	25.34	---	Pass
NVNT	ac40	5190	Ant1	53.633	---	Pass
NVNT	ac40	5230	Ant1	54.066	---	Pass
NVNT	ac80	5210	Ant1	81.758	---	Pass

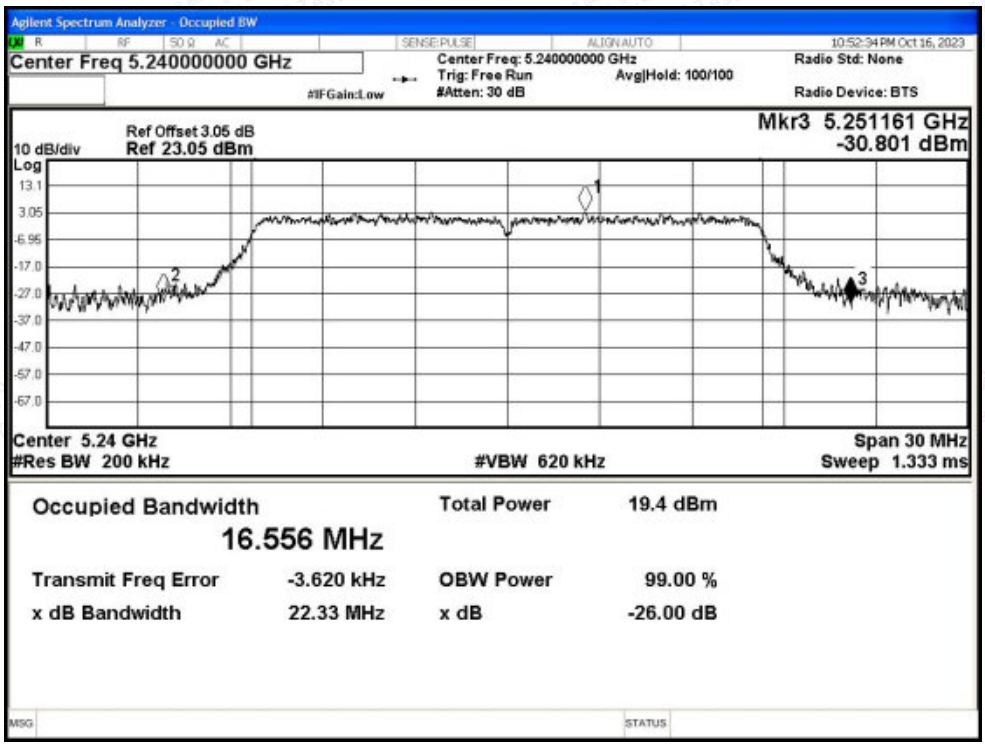
Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant1



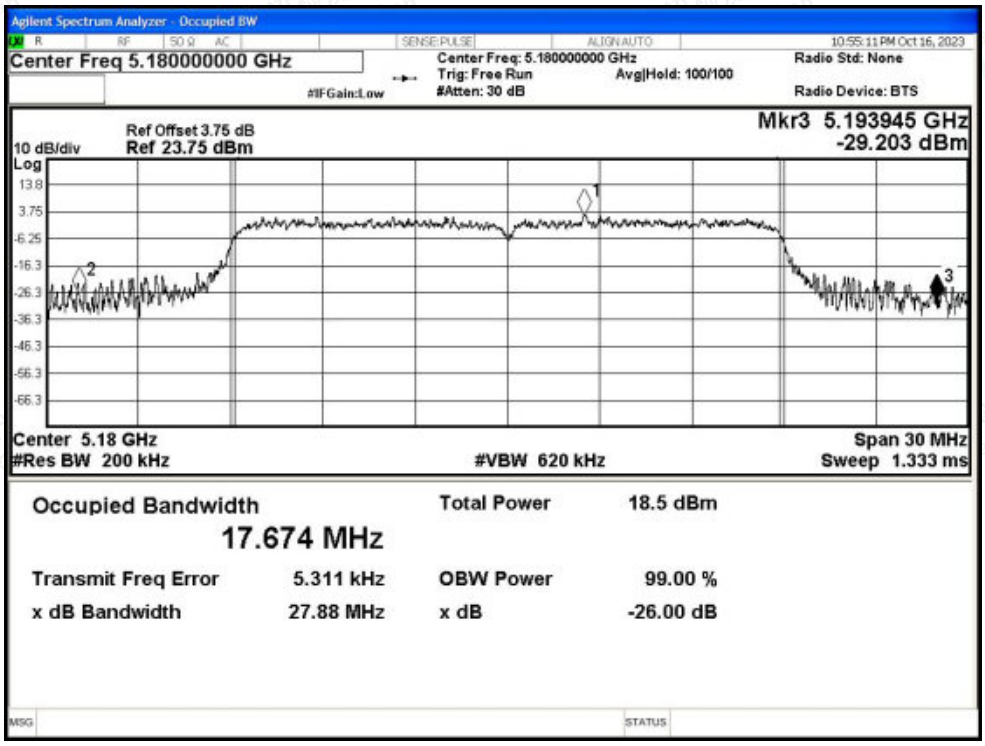
-26dB Bandwidth NVNT a 5200MHz Ant1



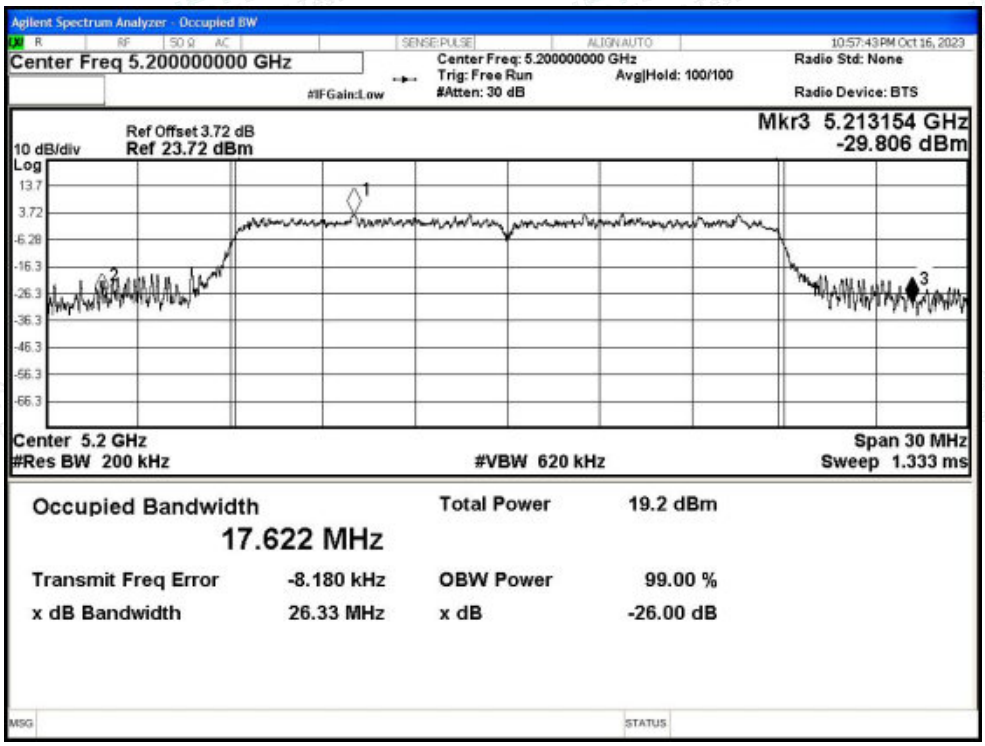
-26dB Bandwidth NVNT a 5240MHz Ant1



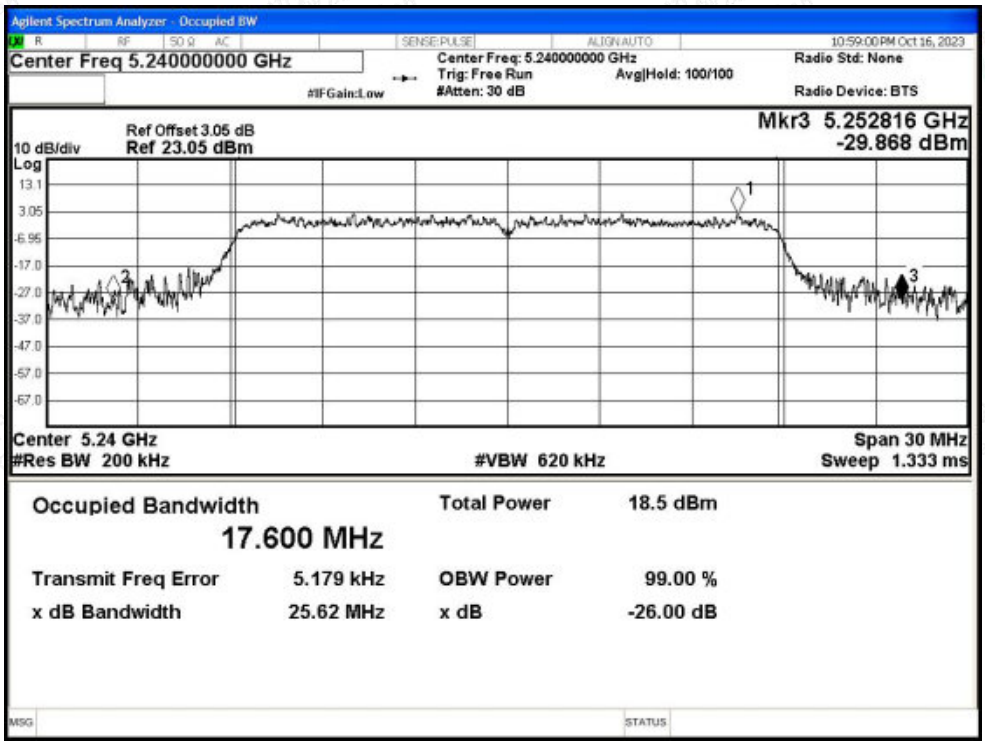
-26dB Bandwidth NVNT n20 5180MHz Ant1



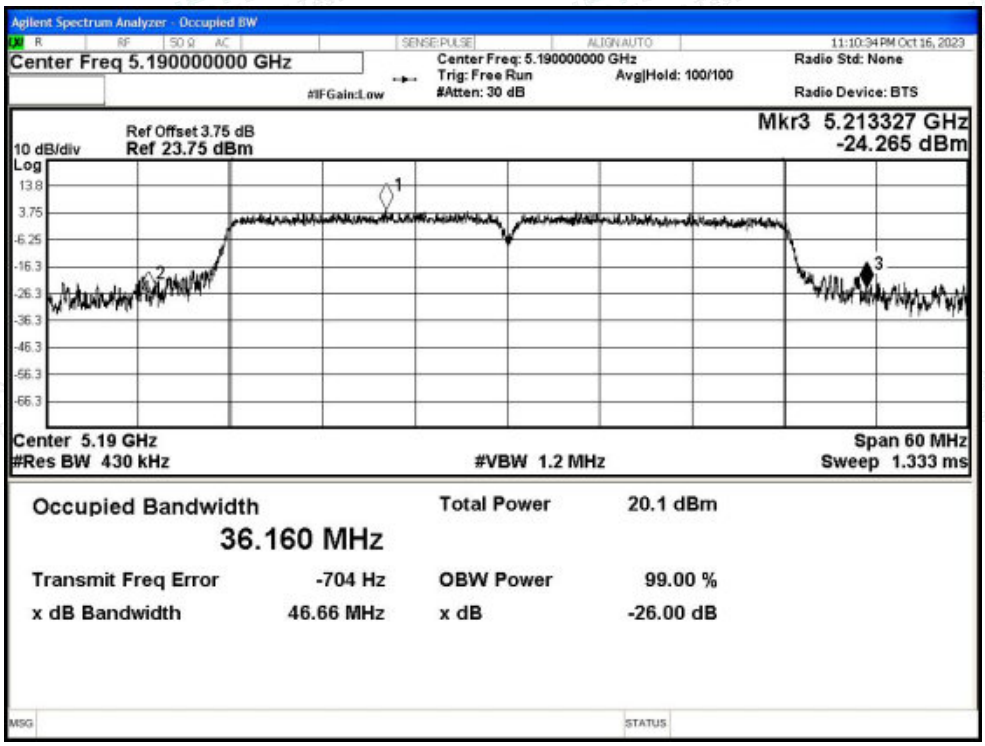
-26dB Bandwidth NVNT n20 5200MHz Ant1



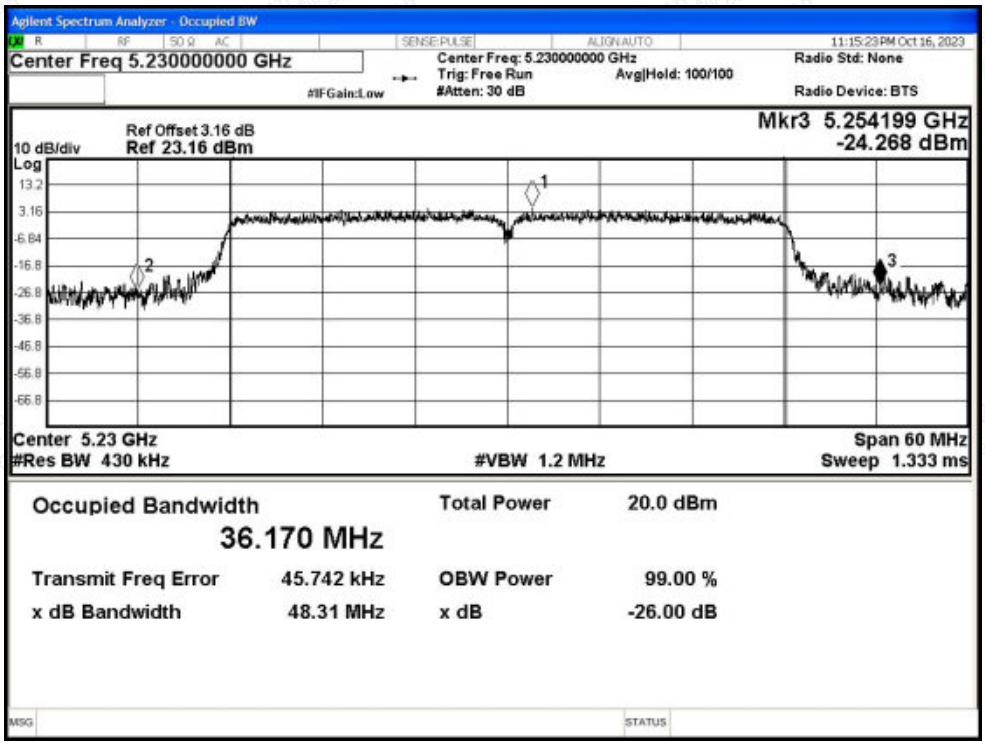
-26dB Bandwidth NVNT n20 5240MHz Ant1



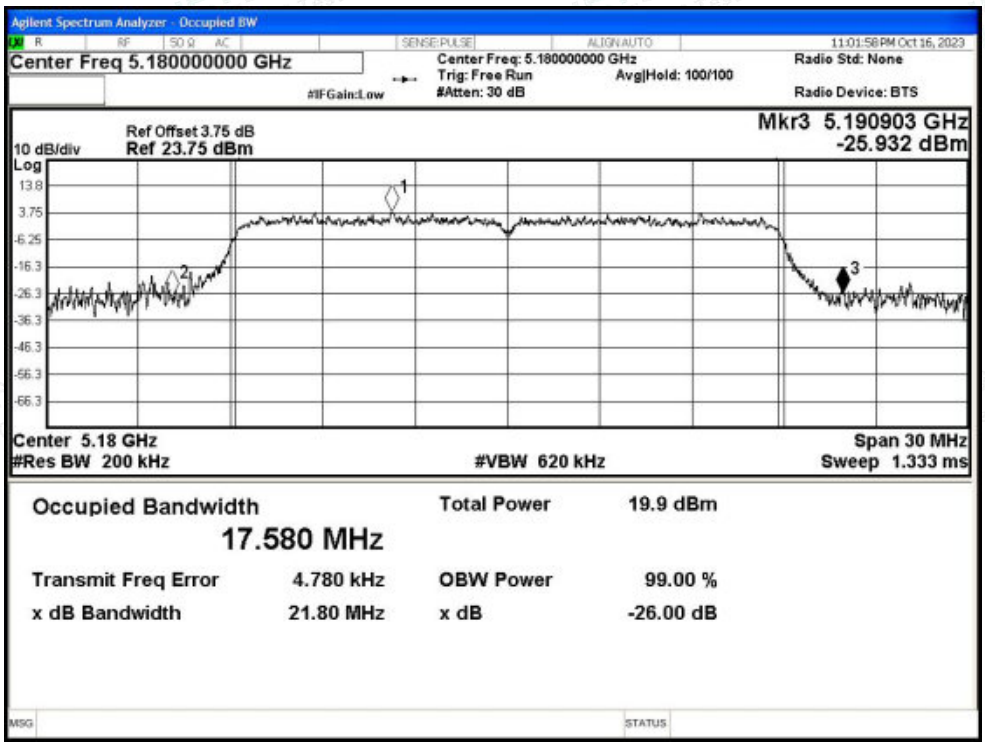
-26dB Bandwidth NVNT n40 5190MHz Ant1



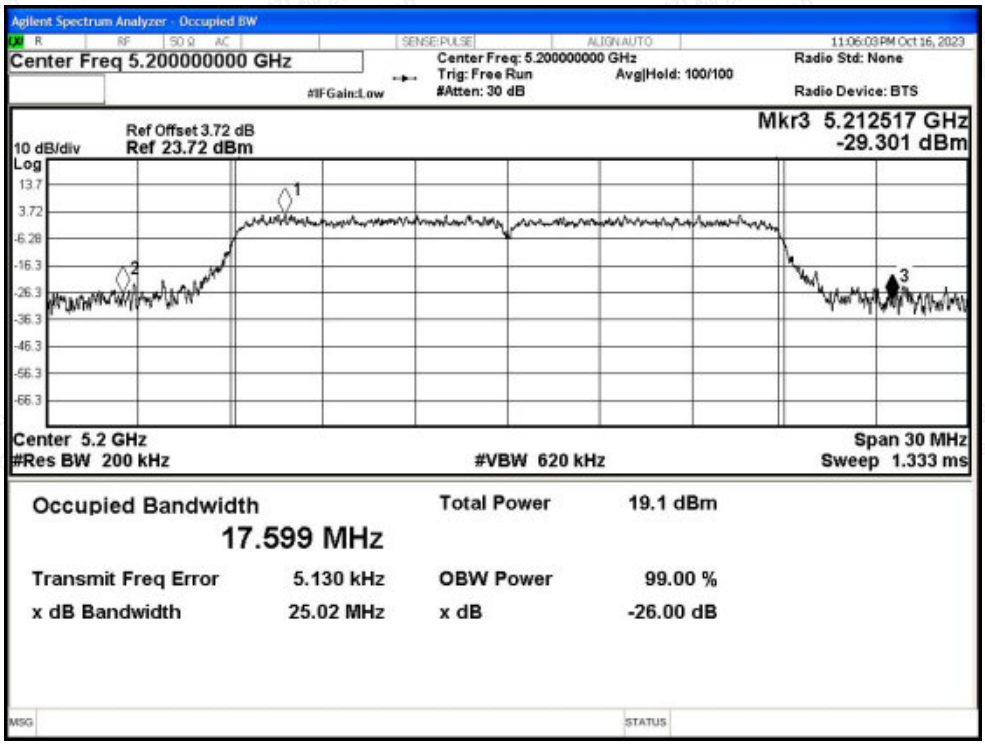
-26dB Bandwidth NVNT n40 5230MHz Ant1



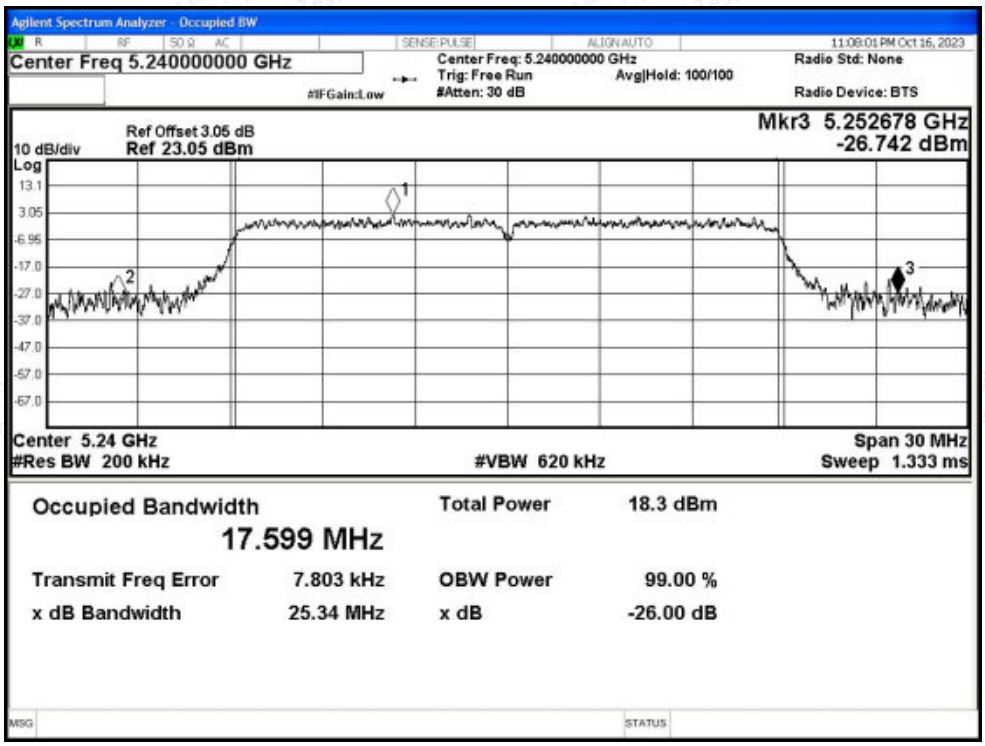
-26dB Bandwidth NVNT ac20 5180MHz Ant1



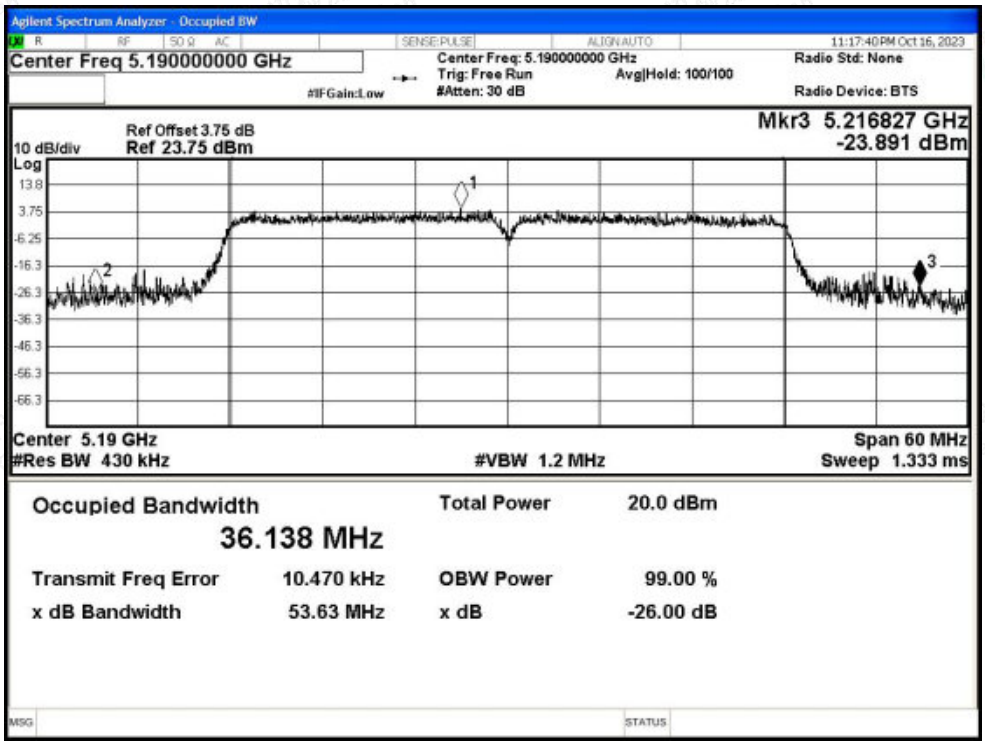
-26dB Bandwidth NVNT ac20 5200MHz Ant1



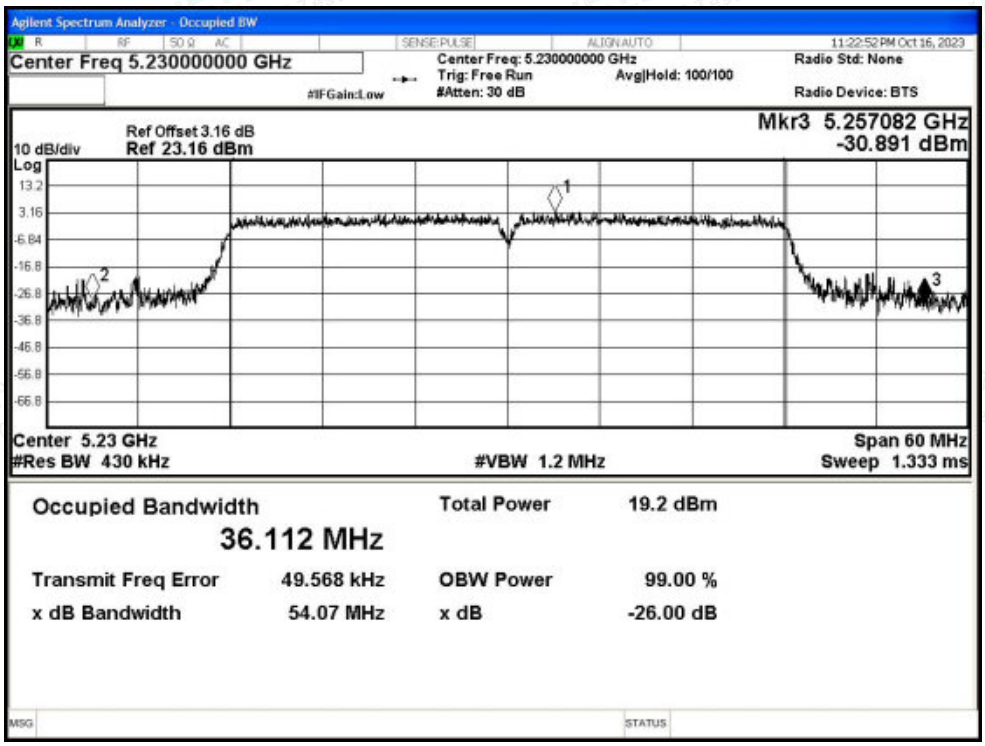
-26dB Bandwidth NVNT ac20 5240MHz Ant1



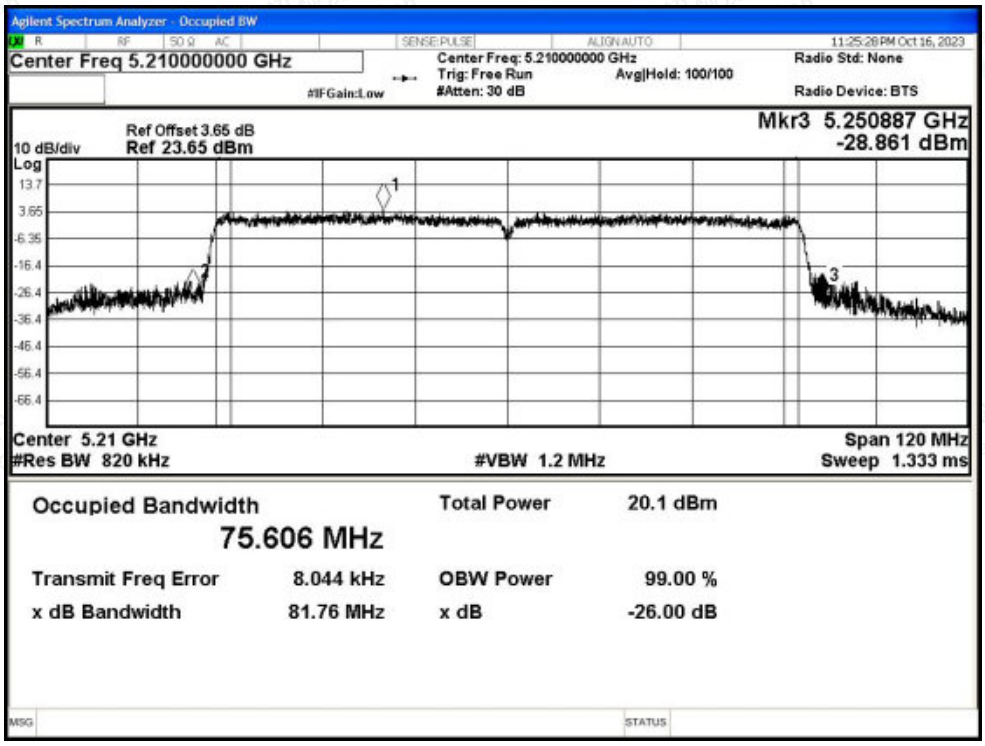
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1

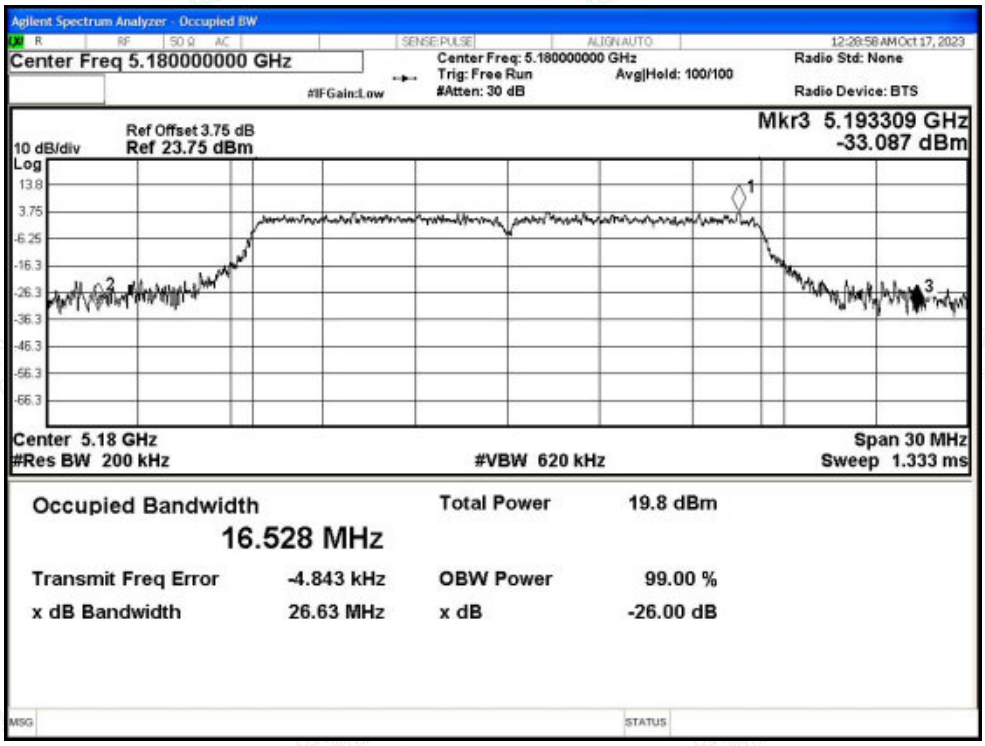


-26dB Bandwidth NVNT ac80 5210MHz Ant1

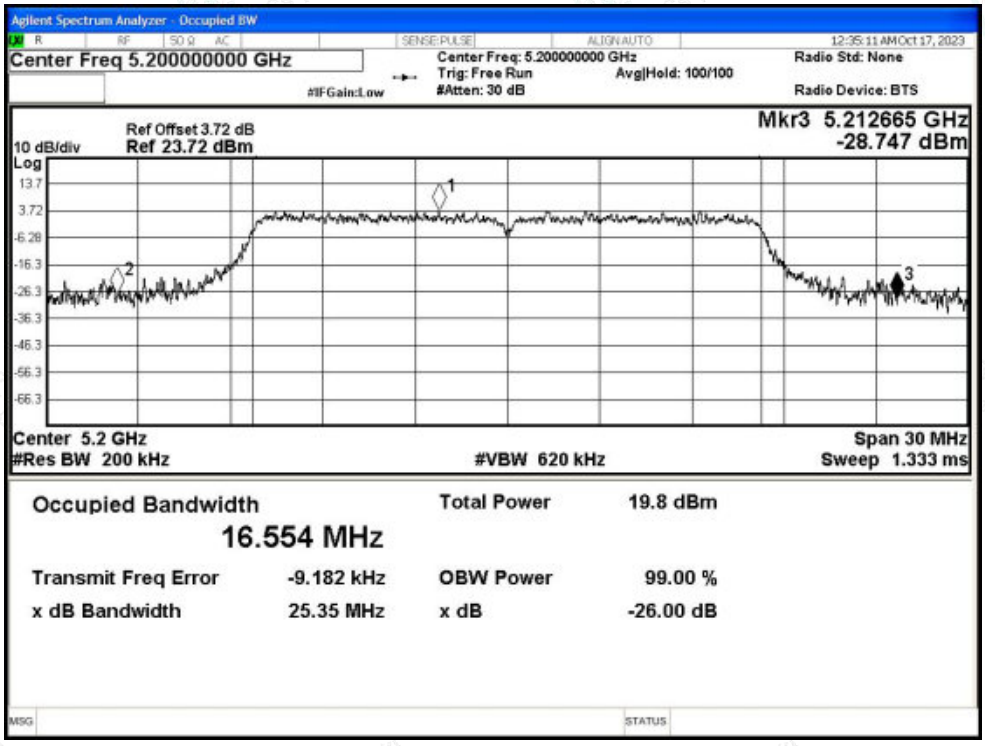


Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	26.628	---	Pass
NVNT	a	5200	Ant2	25.349	---	Pass
NVNT	a	5240	Ant2	25.417	---	Pass
NVNT	n20	5180	Ant2	26.09	---	Pass
NVNT	n20	5200	Ant2	25.889	---	Pass
NVNT	n20	5240	Ant2	25.701	---	Pass
NVNT	n40	5190	Ant2	48.5	---	Pass
NVNT	n40	5230	Ant2	48.554	---	Pass
NVNT	ac20	5180	Ant2	22.132	---	Pass
NVNT	ac20	5200	Ant2	24.919	---	Pass
NVNT	ac20	5240	Ant2	24.924	---	Pass
NVNT	ac40	5190	Ant2	53.038	---	Pass
NVNT	ac40	5230	Ant2	49.899	---	Pass
NVNT	ac80	5210	Ant2	82.034	---	Pass

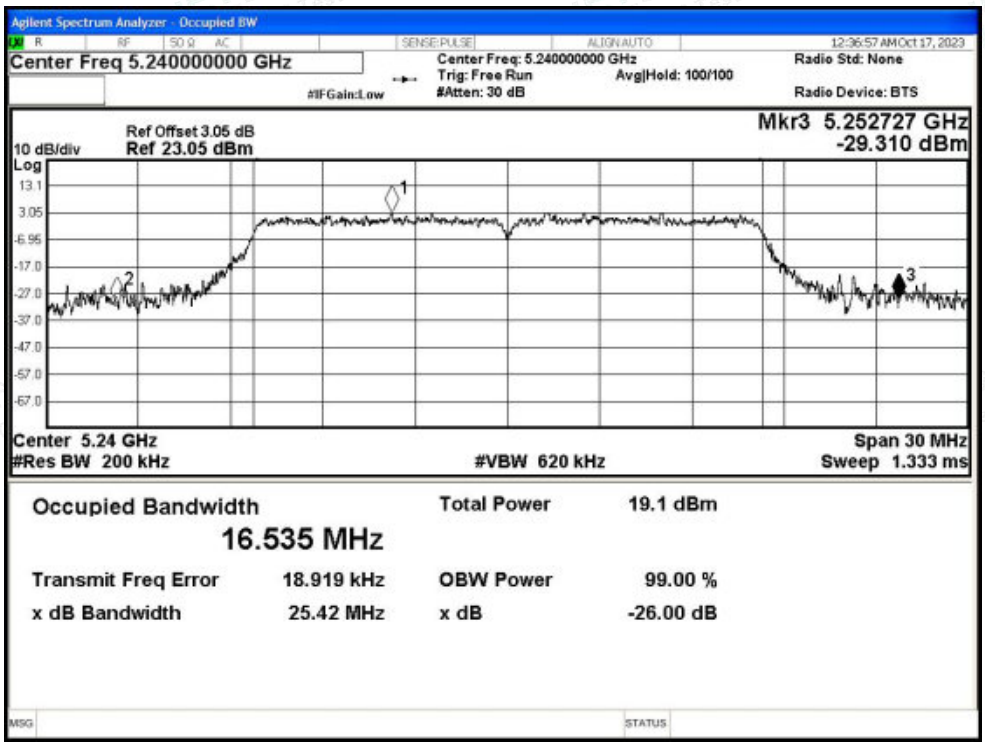
Test Graphs
-26dB Bandwidth NVNT a 5180MHz Ant2



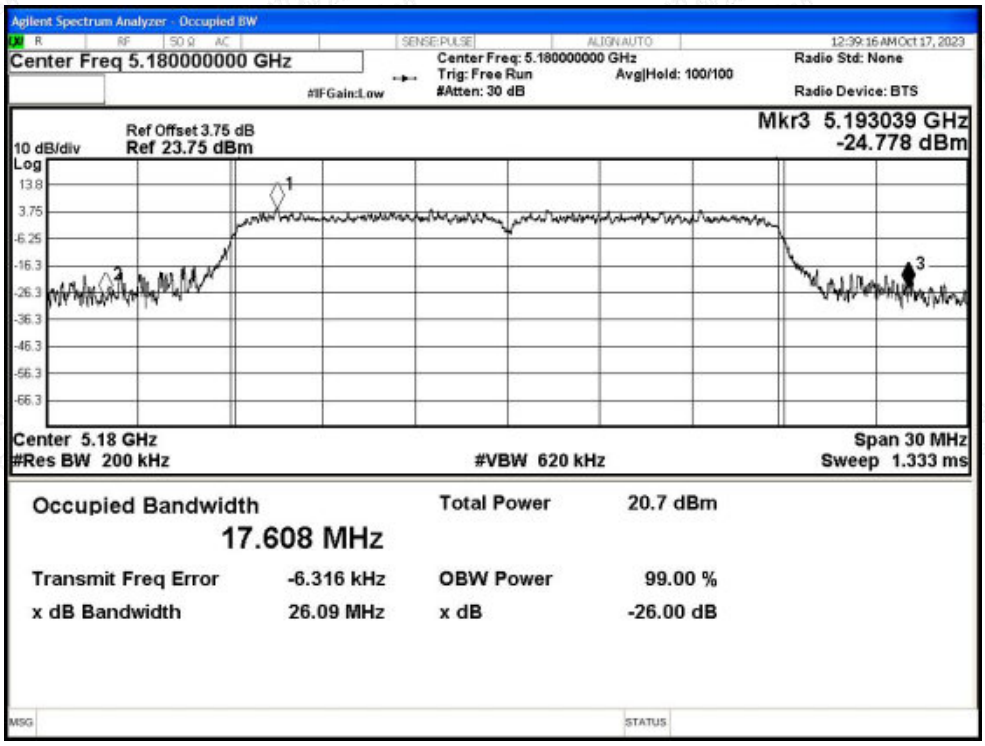
-26dB Bandwidth NVNT a 5200MHz Ant2



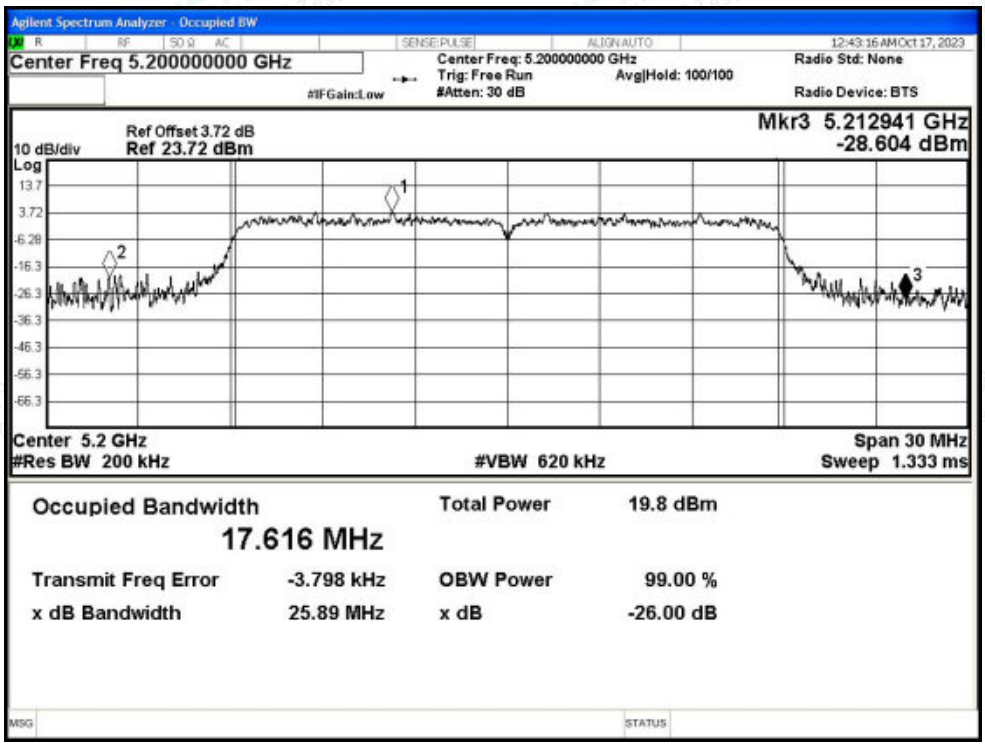
-26dB Bandwidth NVNT a 5240MHz Ant2



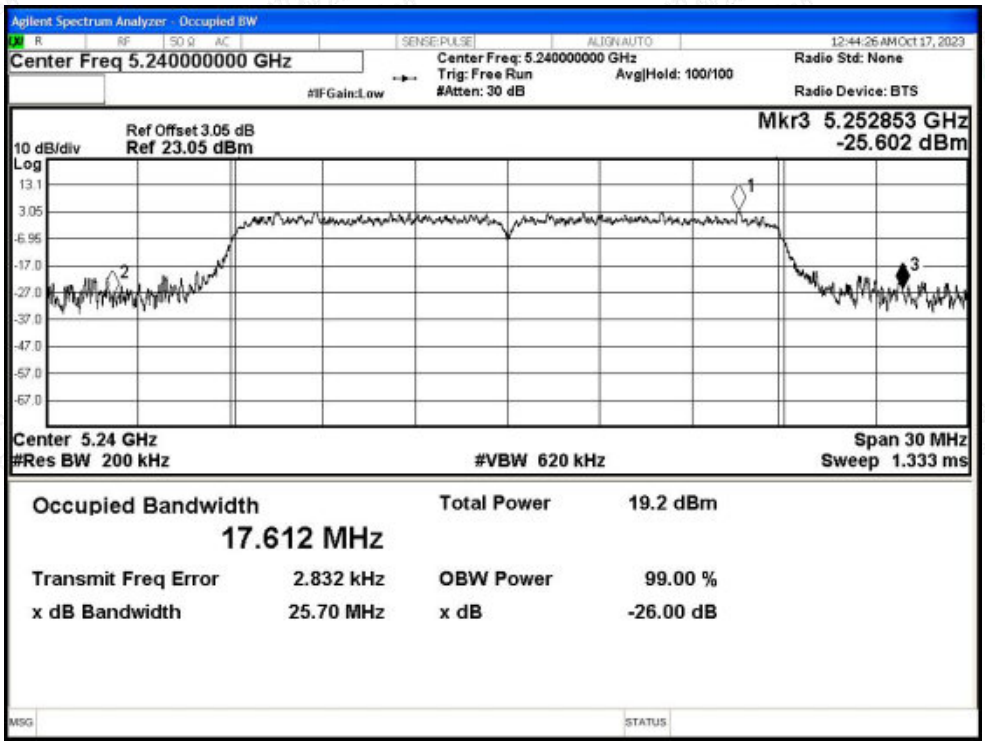
-26dB Bandwidth NVNT n20 5180MHz Ant2



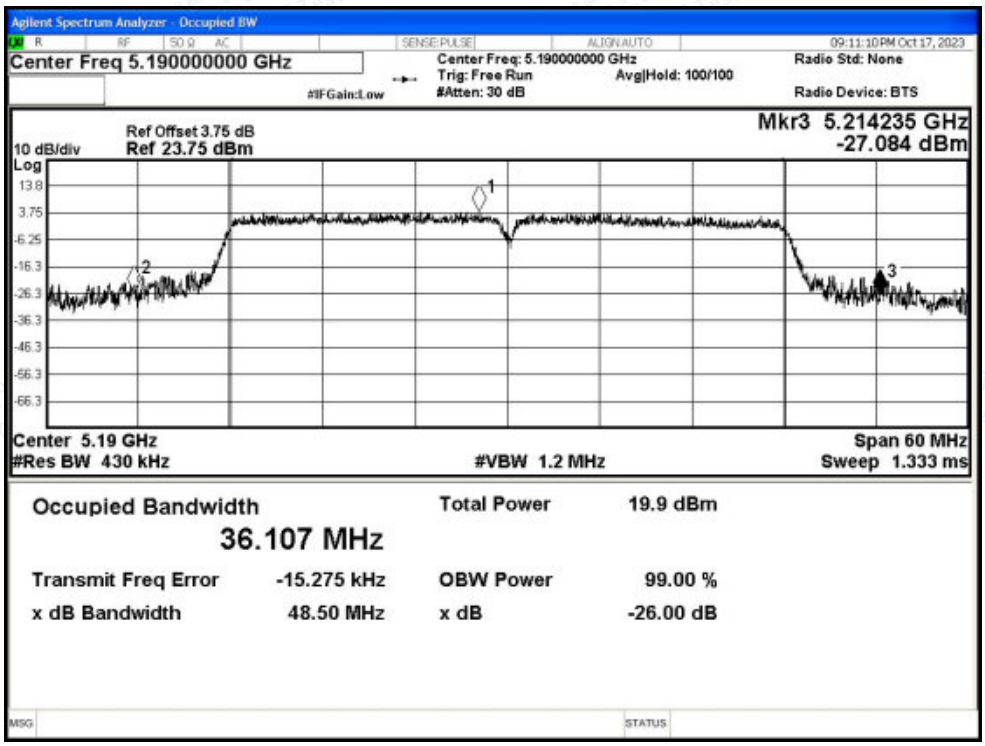
-26dB Bandwidth NVNT n20 5200MHz Ant2



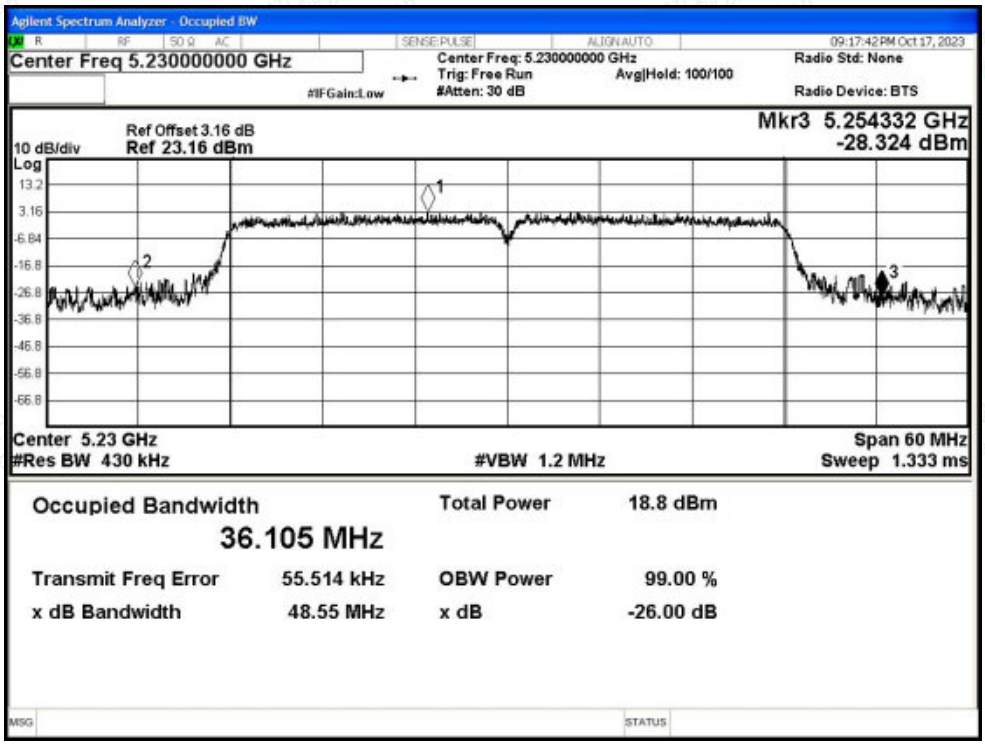
-26dB Bandwidth NVNT n20 5240MHz Ant2



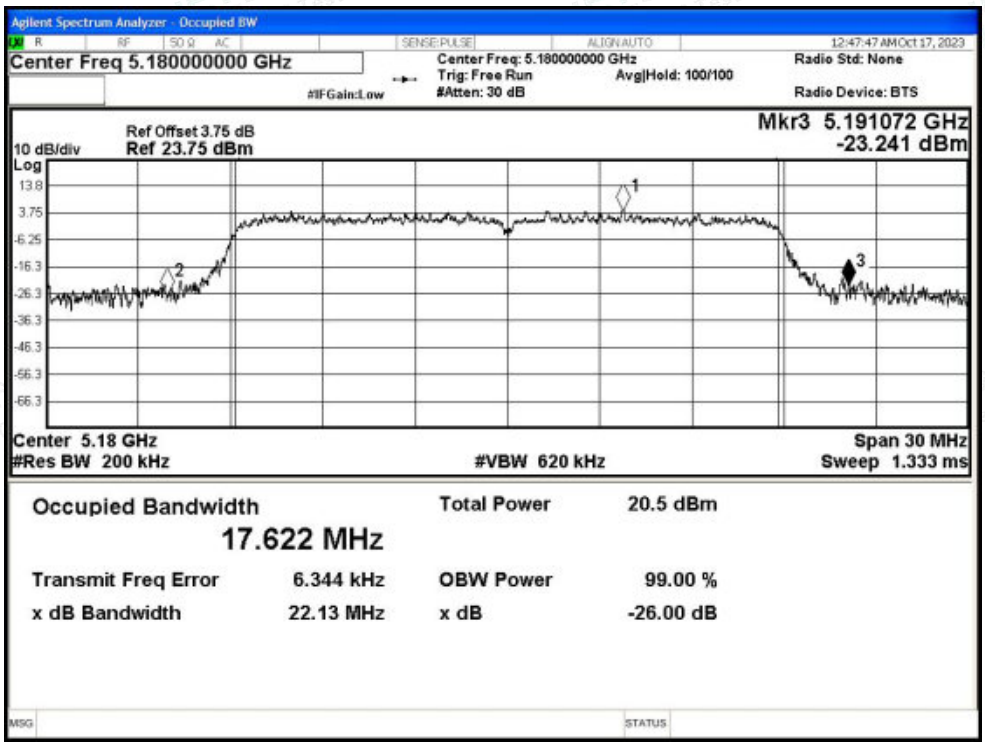
-26dB Bandwidth NVNT n40 5190MHz Ant2



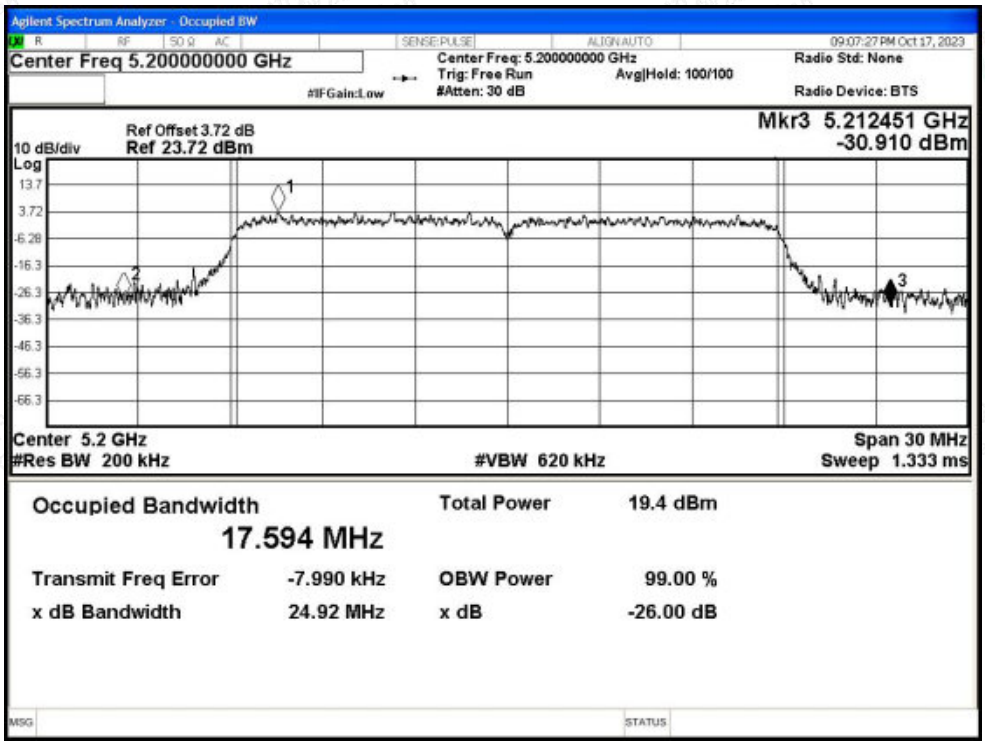
-26dB Bandwidth NVNT n40 5230MHz Ant2



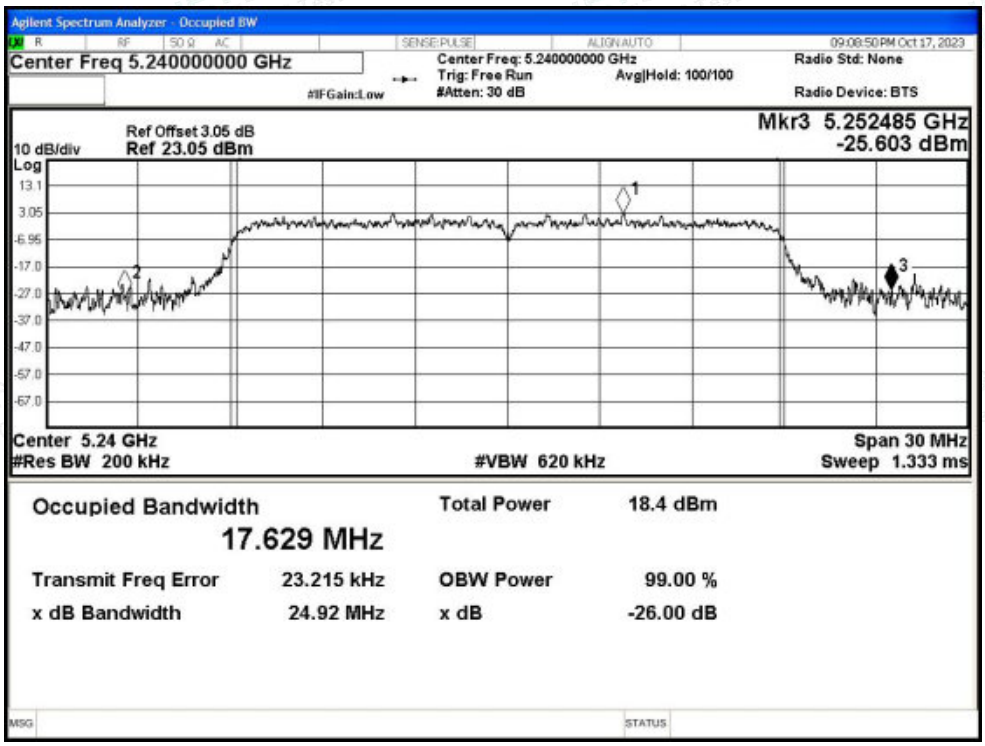
-26dB Bandwidth NVNT ac20 5180MHz Ant2



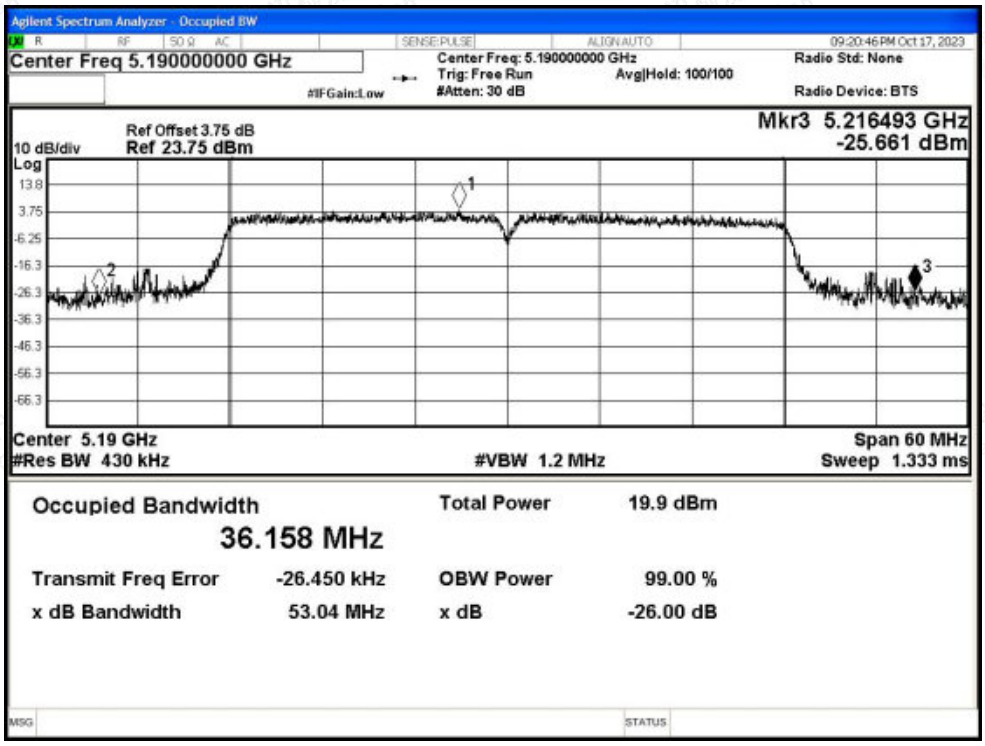
-26dB Bandwidth NVNT ac20 5200MHz Ant2



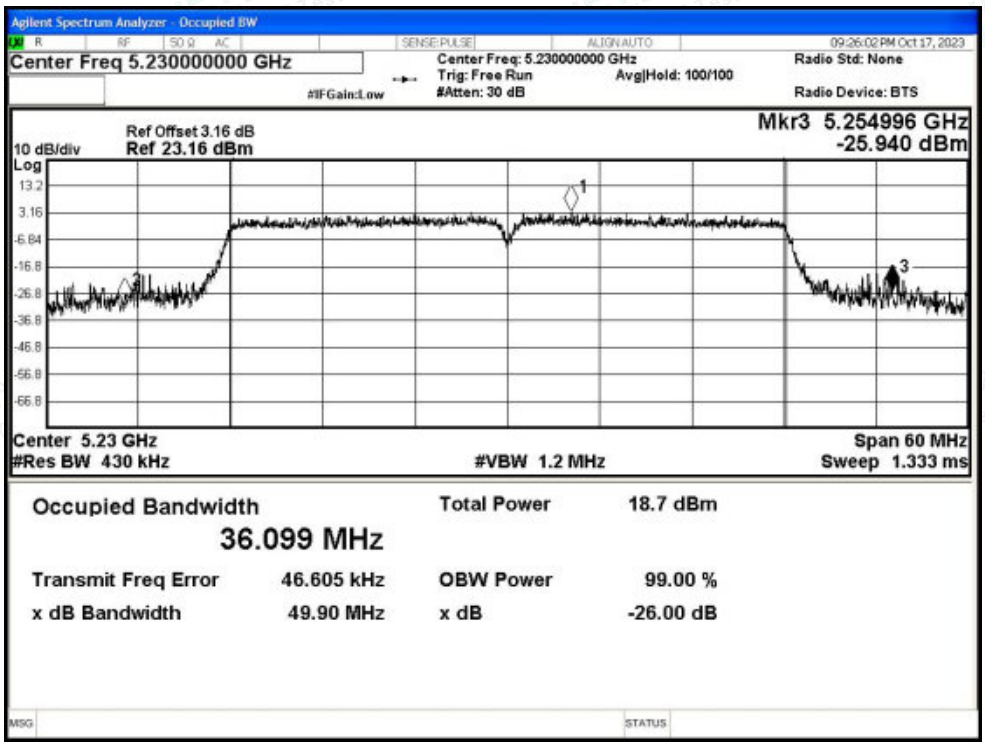
-26dB Bandwidth NVNT ac20 5240MHz Ant2



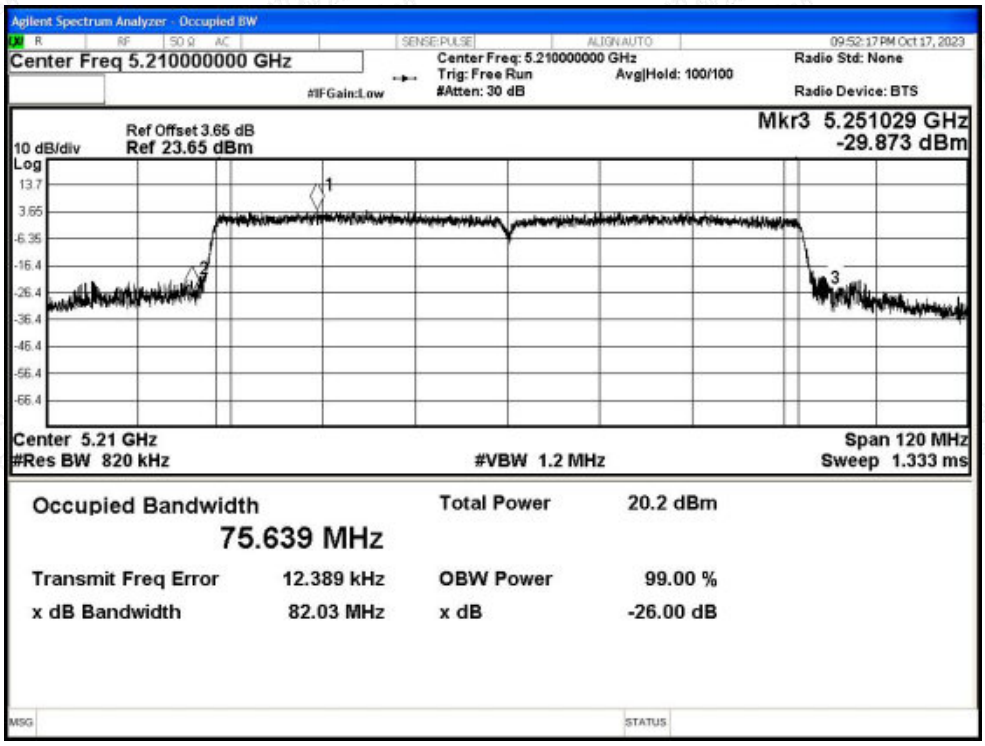
-26dB Bandwidth NVNT ac40 5190MHz Ant2



-26dB Bandwidth NVNT ac40 5230MHz Ant2



-26dB Bandwidth NVNT ac80 5210MHz Ant2



C.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.71	0.5	13.21	24	Pass
NVNT	a	5200	Ant1	13.25	0.53	13.78	24	Pass
NVNT	a	5240	Ant1	13.4	0.5	13.9	24	Pass
NVNT	n20	5180	Ant1	12.56	0.62	13.18	24	Pass
NVNT	n20	5200	Ant1	13.21	0.59	13.8	24	Pass
NVNT	n20	5240	Ant1	12.42	0.59	13.01	24	Pass
NVNT	n40	5190	Ant1	13.48	1.1	14.58	24	Pass
NVNT	n40	5230	Ant1	13.02	1.1	14.12	24	Pass
NVNT	ac20	5180	Ant1	13.71	0.61	14.32	24	Pass
NVNT	ac20	5200	Ant1	13.15	0.59	13.74	24	Pass
NVNT	ac20	5240	Ant1	12.74	0.13	12.87	24	Pass
NVNT	ac40	5190	Ant1	13.45	1.09	14.54	24	Pass
NVNT	ac40	5230	Ant1	12.25	1.1	13.35	24	Pass
NVNT	ac80	5210	Ant1	11.87	1.97	13.84	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	13.91	0.5	14.41	24	Pass
NVNT	a	5200	Ant2	13.82	0.5	14.32	24	Pass
NVNT	a	5240	Ant2	13.2	0.5	13.7	24	Pass
NVNT	n20	5180	Ant2	14.49	0.59	15.08	24	Pass
NVNT	n20	5200	Ant2	13.74	0.59	14.33	24	Pass
NVNT	n20	5240	Ant2	12.95	0.59	13.54	24	Pass
NVNT	n40	5190	Ant2	13.02	1.2	14.22	24	Pass
NVNT	n40	5230	Ant2	12.05	1.25	13.3	24	Pass
NVNT	ac20	5180	Ant2	14.36	0.58	14.94	24	Pass
NVNT	ac20	5200	Ant2	13.73	0.13	13.86	24	Pass
NVNT	ac20	5240	Ant2	12.39	0.61	13	24	Pass
NVNT	ac40	5190	Ant2	13.3	1.1	14.4	24	Pass
NVNT	ac40	5230	Ant2	12.23	1.2	13.43	24	Pass
NVNT	ac80	5210	Ant2	12.5	2.05	14.55	24	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	13.18	15.08	17.24	24	Pass
NVNT	n20	5200	13.8	14.33	17.08	24	Pass
NVNT	n20	5240	13.01	13.54	16.29	24	Pass
NVNT	n40	5190	14.58	14.22	17.41	24	Pass
NVNT	n40	5230	14.12	13.3	16.74	24	Pass
NVNT	ac20	5180	14.32	14.94	17.65	24	Pass
NVNT	ac20	5200	13.74	13.86	16.81	24	Pass
NVNT	ac20	5240	12.87	13	15.95	24	Pass
NVNT	ac40	5190	14.54	14.4	17.48	24	Pass
NVNT	ac40	5230	13.35	13.43	16.40	24	Pass
NVNT	ac80	5210	13.84	14.55	17.22	24	Pass

C.3 Maximum Power Spectral Density Level

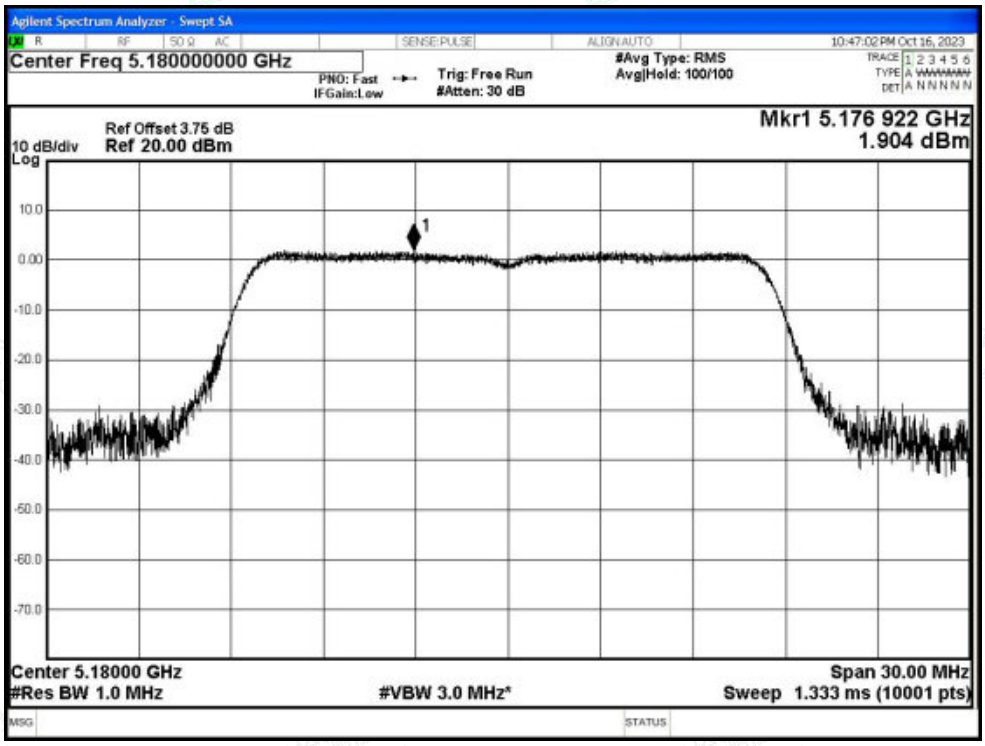
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.9	0.5	2.4	11	Pass
NVNT	a	5200	Ant1	2.77	0.53	3.3	11	Pass
NVNT	a	5240	Ant1	2.6	0.5	3.1	11	Pass
NVNT	n20	5180	Ant1	1.68	0.62	2.3	11	Pass
NVNT	n20	5200	Ant1	2.53	0.59	3.12	11	Pass
NVNT	n20	5240	Ant1	1.72	0.59	2.31	11	Pass
NVNT	n40	5190	Ant1	-0.12	1.1	0.98	11	Pass
NVNT	n40	5230	Ant1	-0.37	1.1	0.73	11	Pass
NVNT	ac20	5180	Ant1	3.22	0.61	3.83	11	Pass
NVNT	ac20	5200	Ant1	2.33	0.59	2.92	11	Pass
NVNT	ac20	5240	Ant1	1.84	0.13	1.97	11	Pass
NVNT	ac40	5190	Ant1	0.18	1.09	1.27	11	Pass
NVNT	ac40	5230	Ant1	-1.43	1.1	-0.33	11	Pass
NVNT	ac80	5210	Ant1	-4.2	1.97	-2.23	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD(dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	3.38	0.5	3.88	11	Pass
NVNT	a	5200	Ant2	3.28	0.5	3.78	11	Pass
NVNT	a	5240	Ant2	2.35	0.5	2.85	11	Pass
NVNT	n20	5180	Ant2	4.02	0.59	4.61	11	Pass
NVNT	n20	5200	Ant2	3.28	0.59	3.87	11	Pass
NVNT	n20	5240	Ant2	2.31	0.59	2.9	11	Pass
NVNT	n40	5190	Ant2	0.12	1.2	1.32	11	Pass
NVNT	n40	5230	Ant2	-0.92	1.25	0.33	11	Pass
NVNT	ac20	5180	Ant2	4.04	0.58	4.62	11	Pass
NVNT	ac20	5200	Ant2	2.99	0.13	3.12	11	Pass
NVNT	ac20	5240	Ant2	1.6	0.61	2.21	11	Pass
NVNT	ac40	5190	Ant2	-0.11	1.1	0.99	11	Pass
NVNT	ac40	5230	Ant2	-1.4	1.2	-0.2	11	Pass
NVNT	ac80	5210	Ant2	-4.32	2.05	-2.27	11	Pass

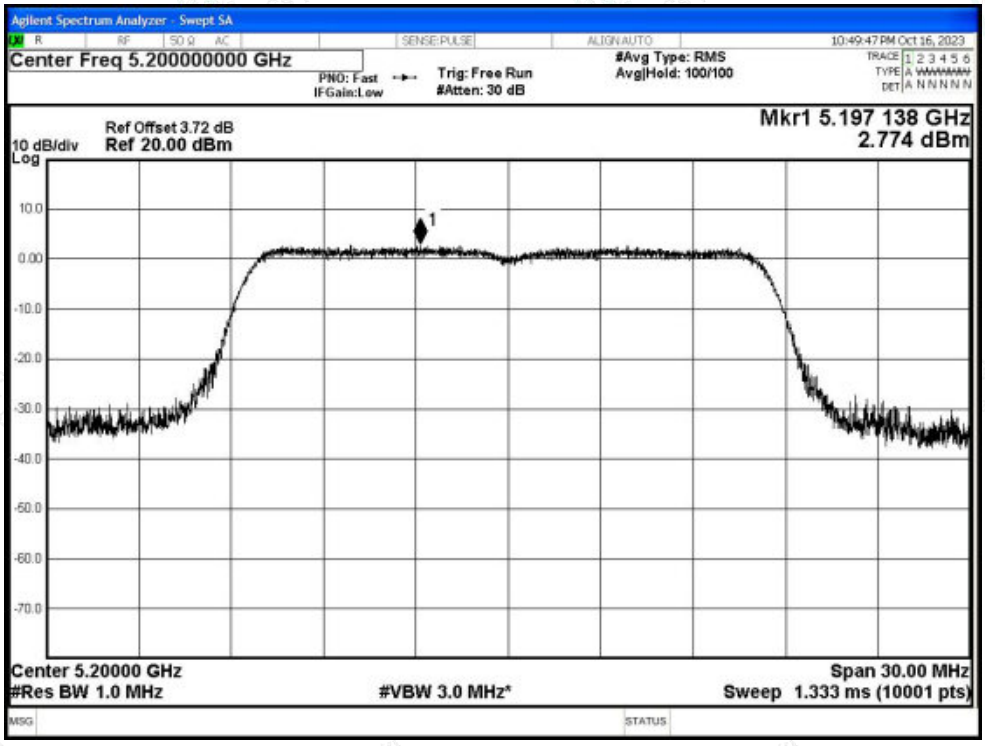
MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	n20	5180	2.3	4.61	6.62	10.60	Pass
NVNT	n20	5200	3.12	3.87	6.52	10.60	Pass
NVNT	n20	5240	2.31	2.9	5.63	10.60	Pass
NVNT	n40	5190	0.98	1.32	4.16	10.60	Pass
NVNT	n40	5230	0.73	0.33	3.54	10.60	Pass
NVNT	ac20	5180	3.83	4.62	7.25	10.60	Pass
NVNT	ac20	5200	2.92	3.12	6.03	10.60	Pass
NVNT	ac20	5240	1.97	2.21	5.10	10.60	Pass
NVNT	ac40	5190	1.27	0.99	4.14	10.60	Pass
NVNT	ac40	5230	-0.33	-0.2	2.75	10.60	Pass
NVNT	ac80	5210	-2.23	-2.27	0.76	10.60	Pass

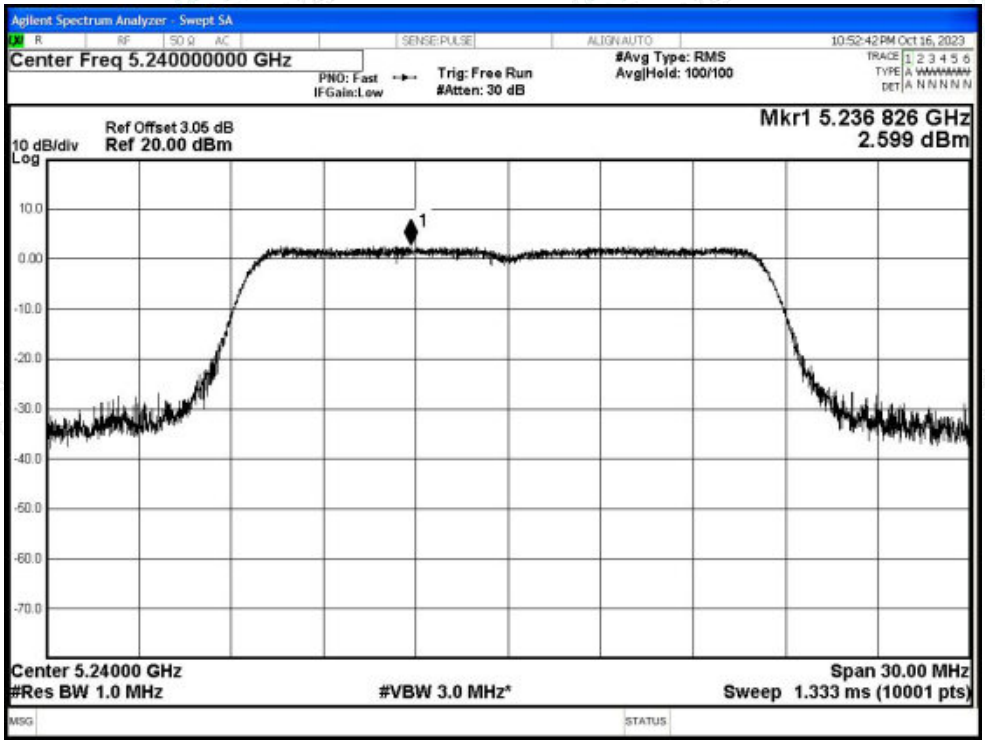
Test Graphs
PSD NVNT a 5180MHz Ant1



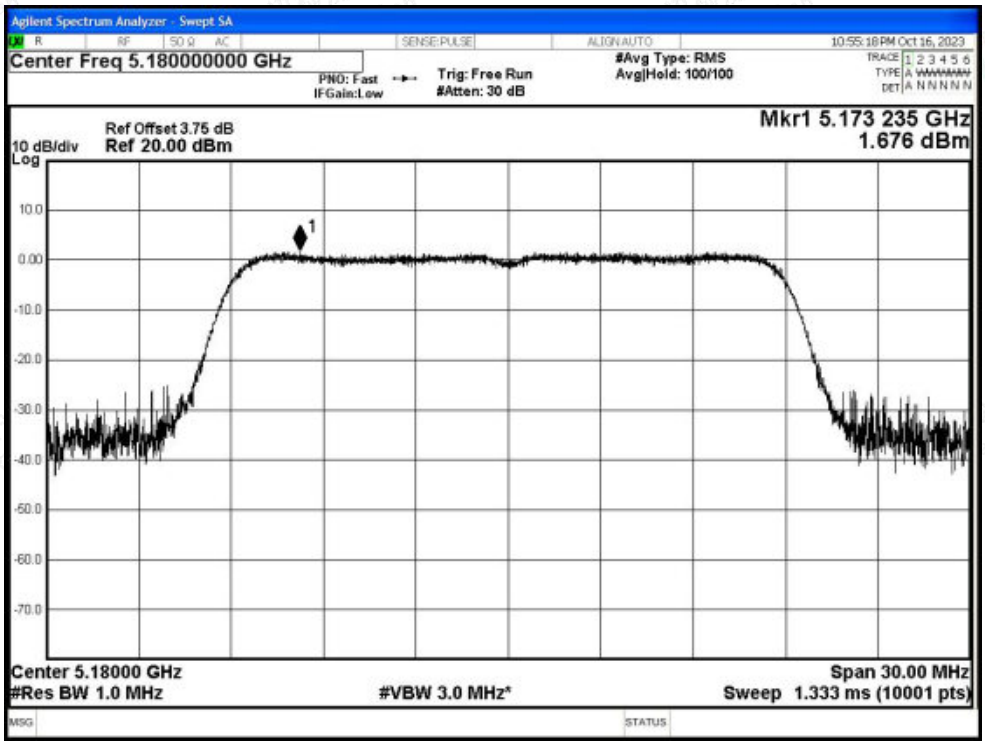
PSD NVNT a 5200MHz Ant1



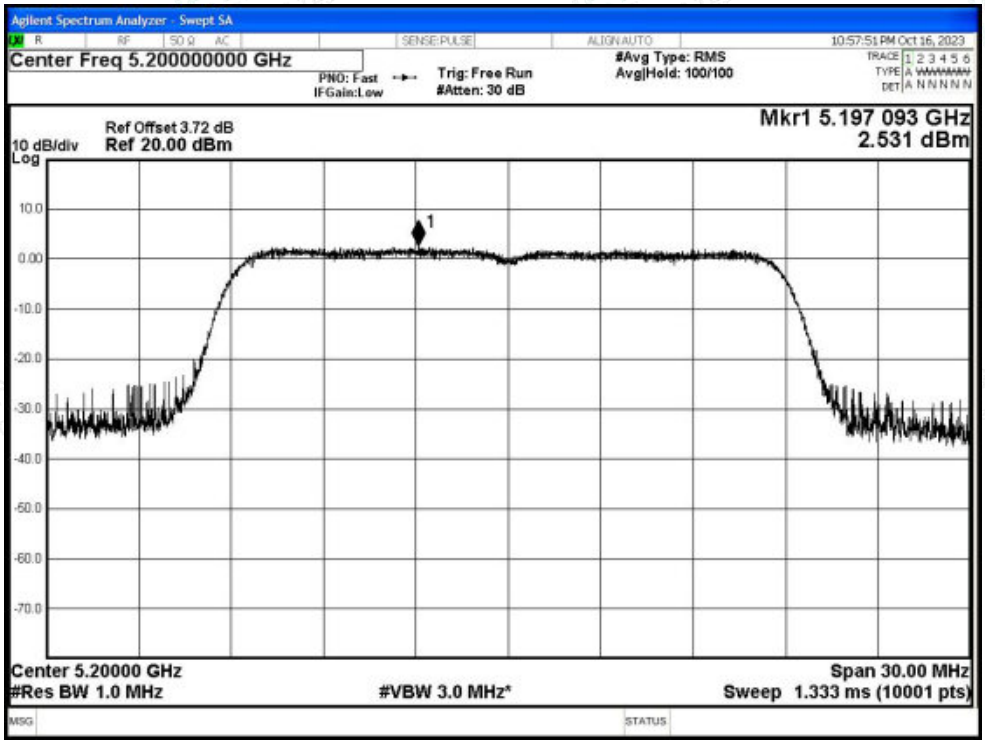
PSD NVNT a 5240MHz Ant1



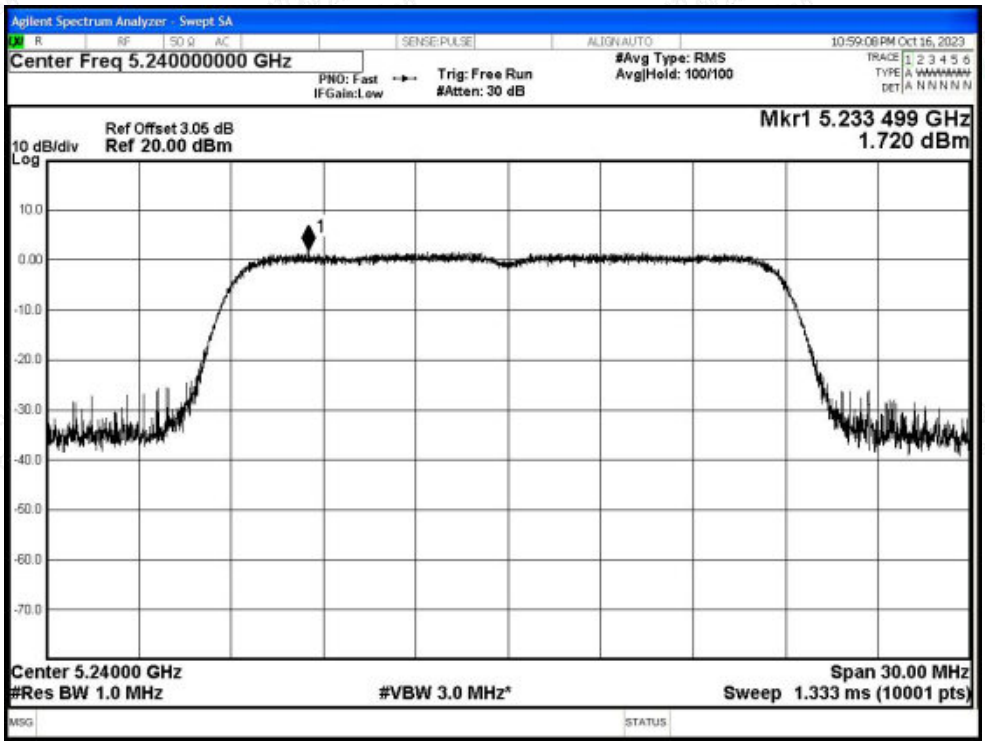
PSD NVNT n20 5180MHz Ant1



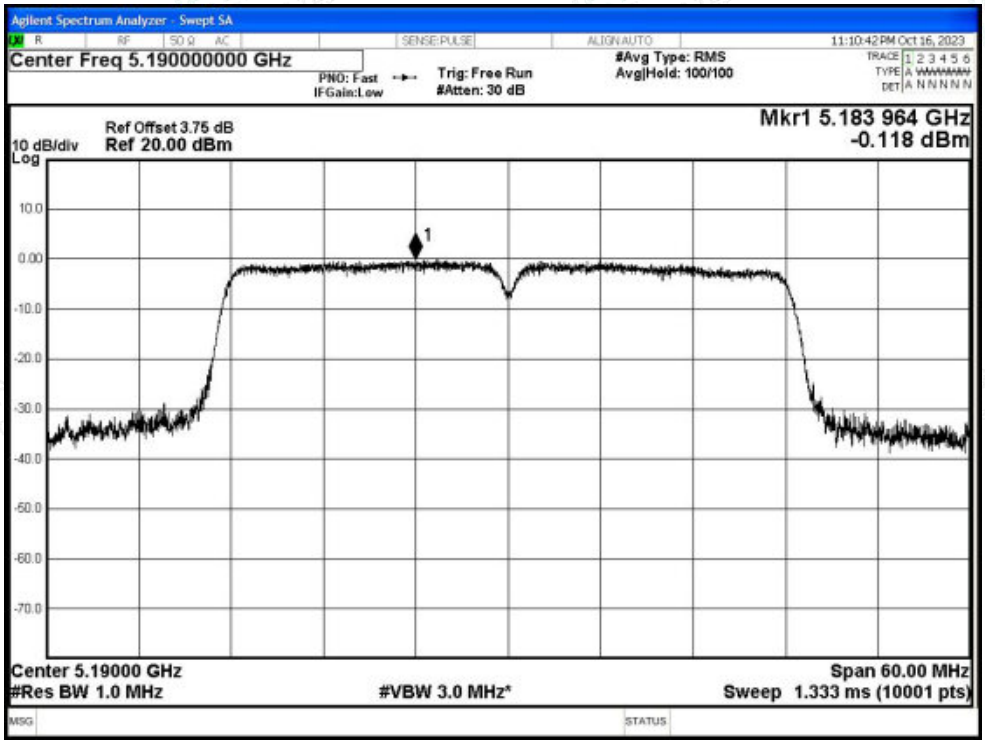
PSD NVNT n20 5200MHz Ant1



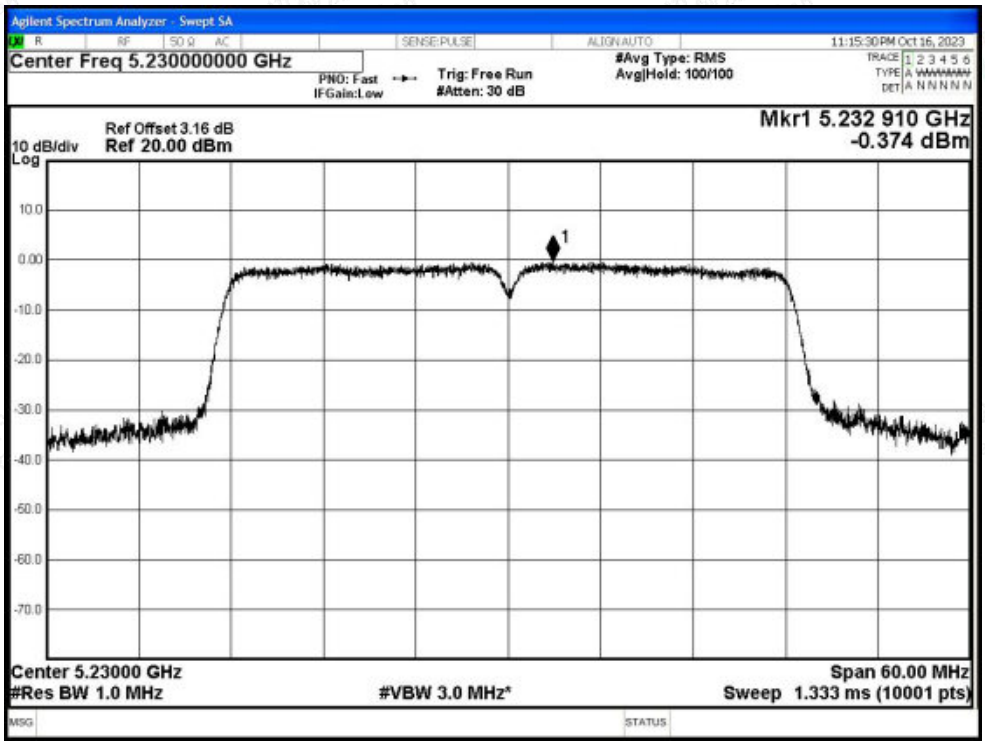
PSD NVNT n20 5240MHz Ant1



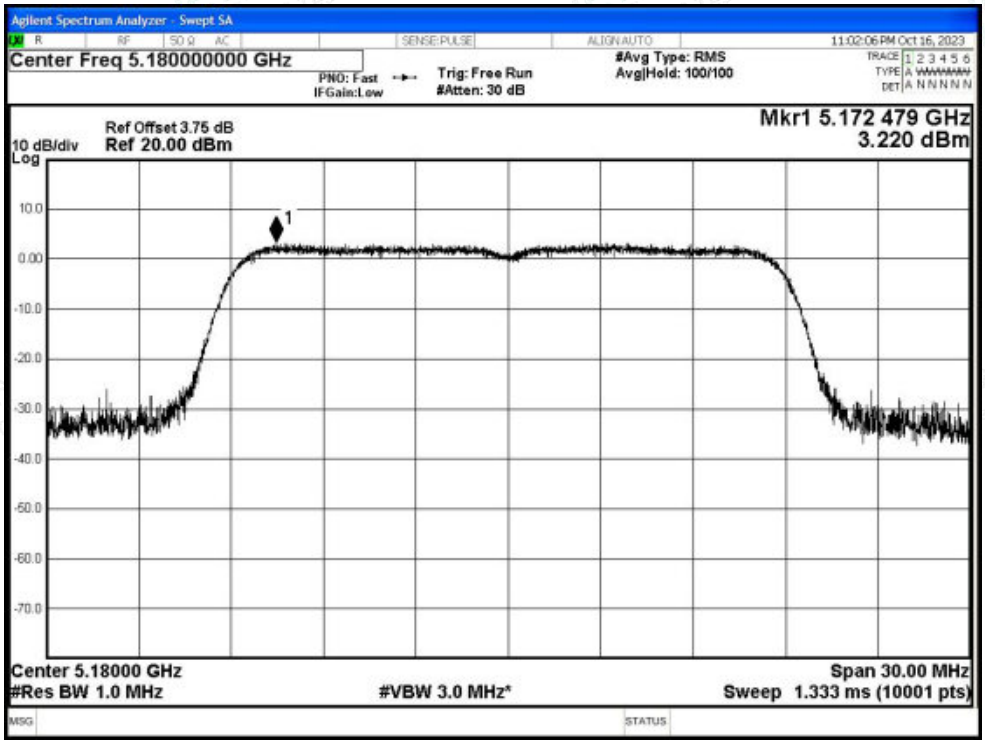
PSD NVNT n40 5190MHz Ant1



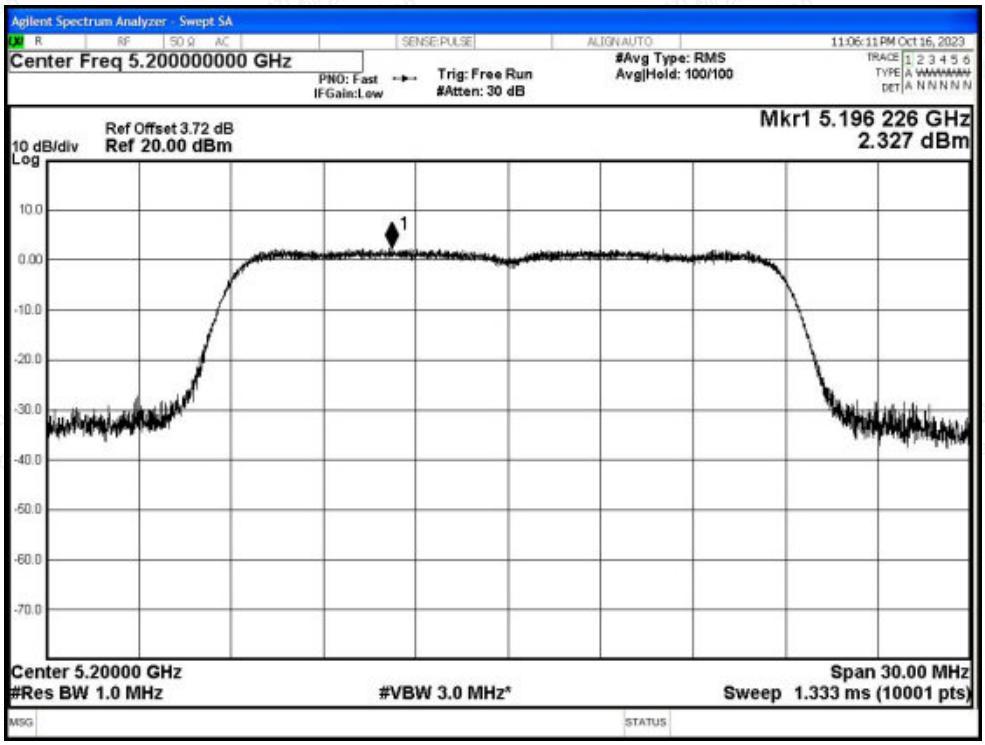
PSD NVNT n40 5230MHz Ant1



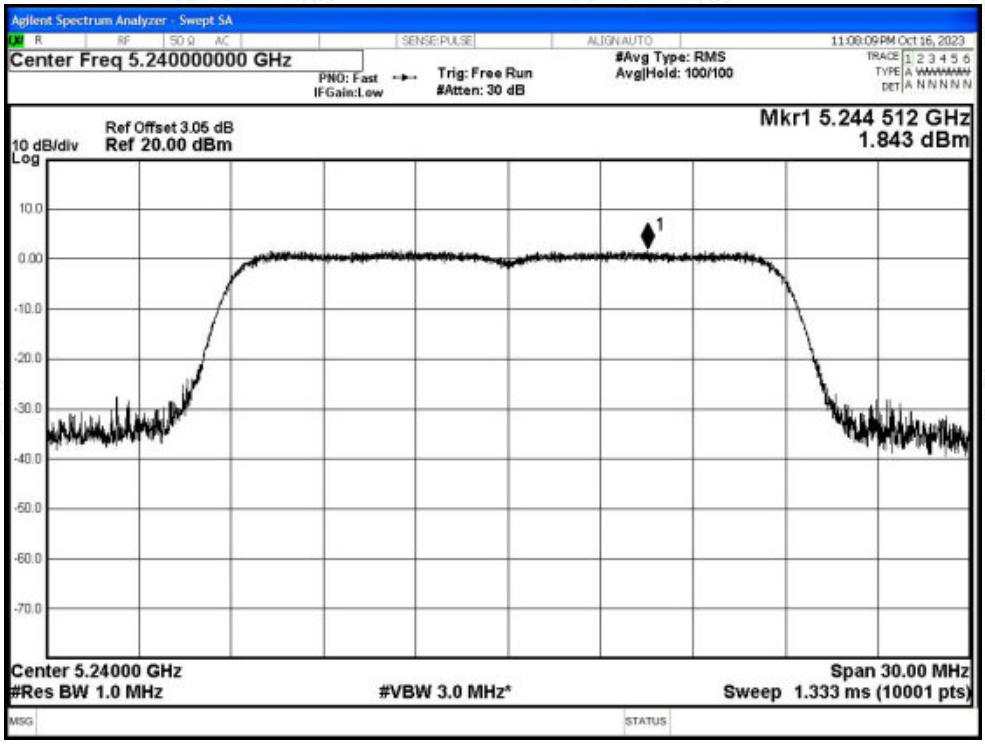
PSD NVNT ac20 5180MHz Ant1



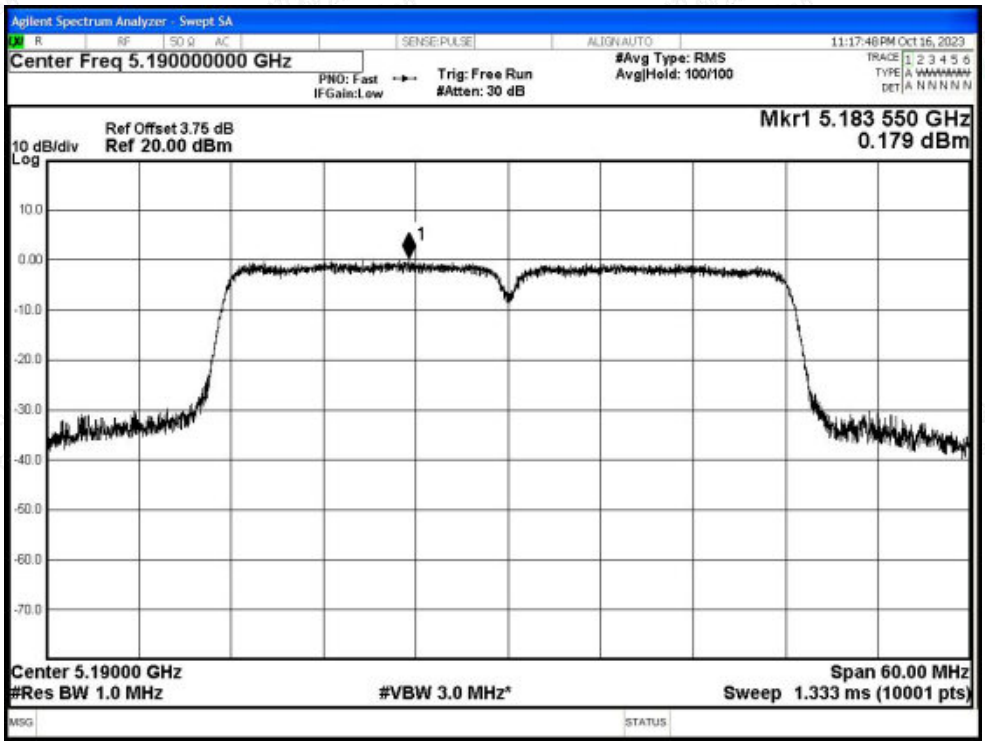
PSD NVNT ac20 5200MHz Ant1



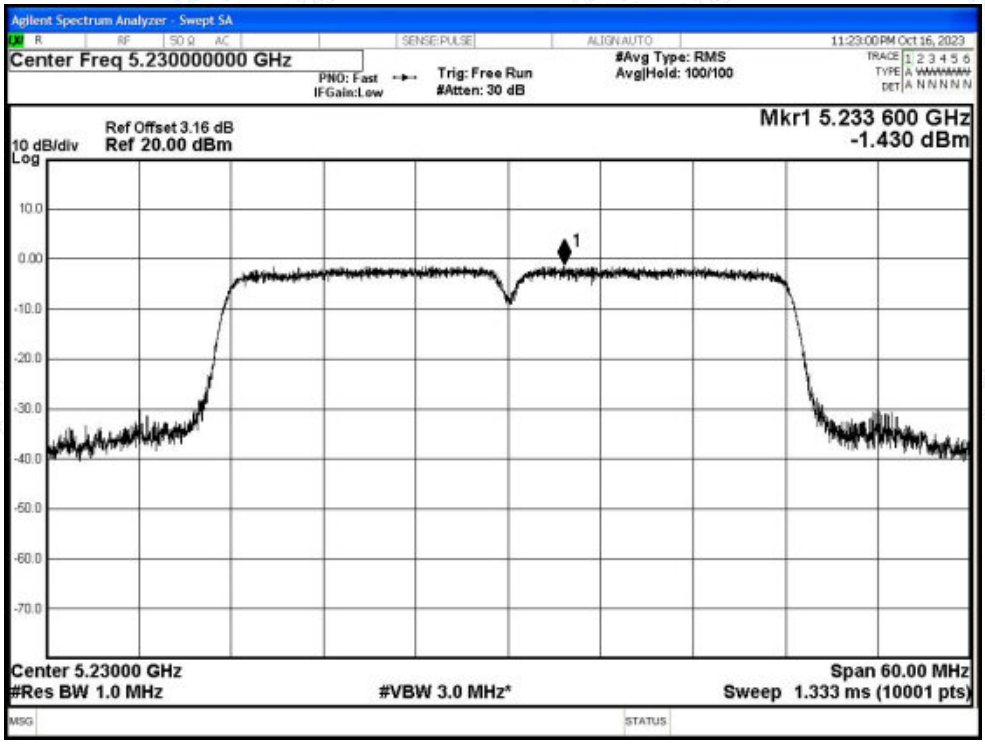
PSD NVNT ac20 5240MHz Ant1



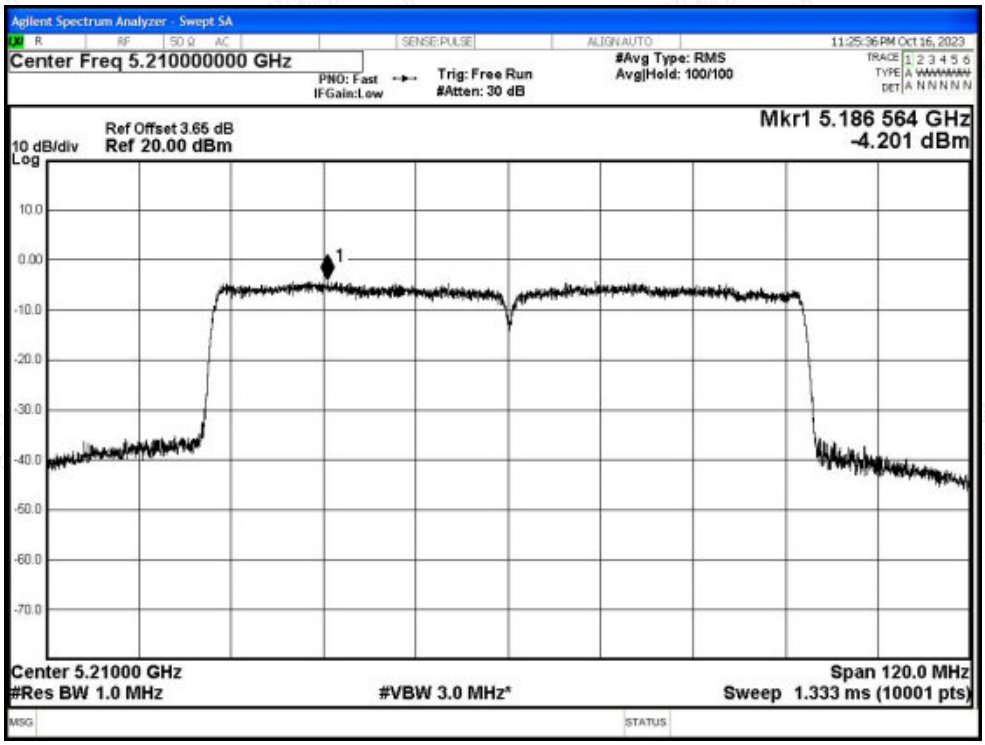
PSD NVNT ac40 5190MHz Ant1



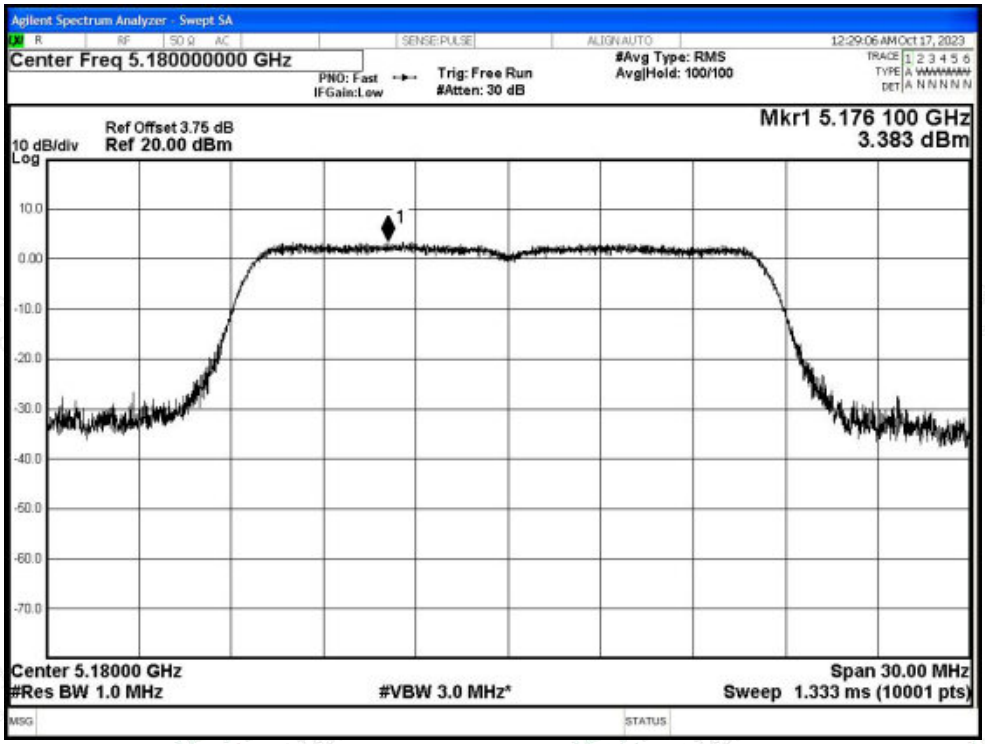
PSD NVNT ac40 5230MHz Ant1



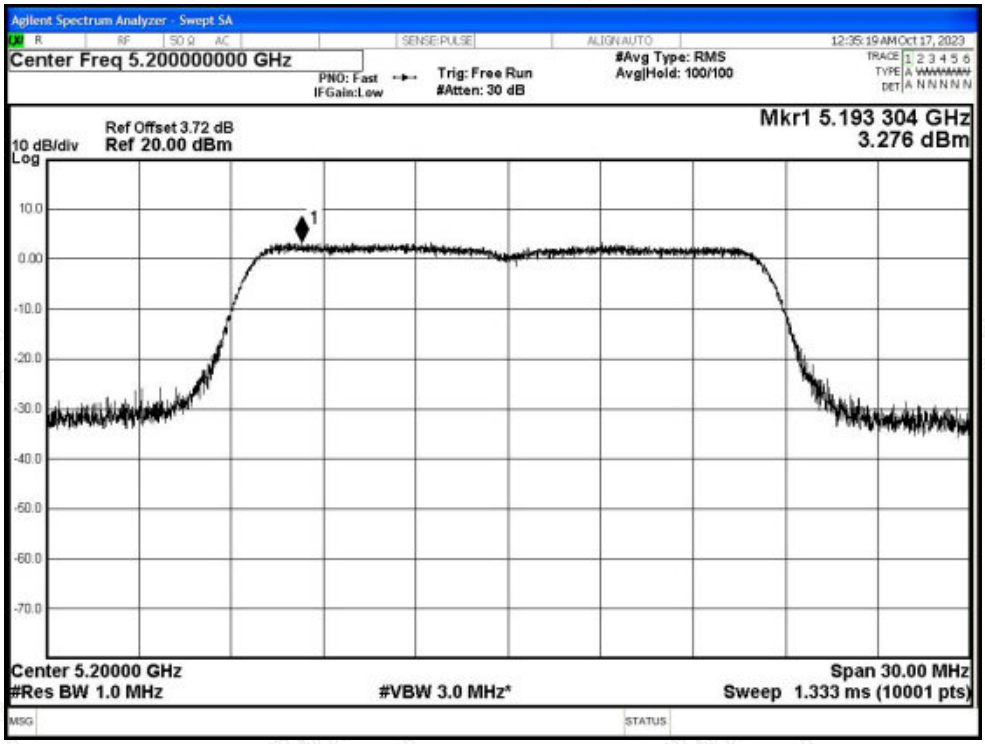
PSD NVNT ac80 5210MHz Ant1



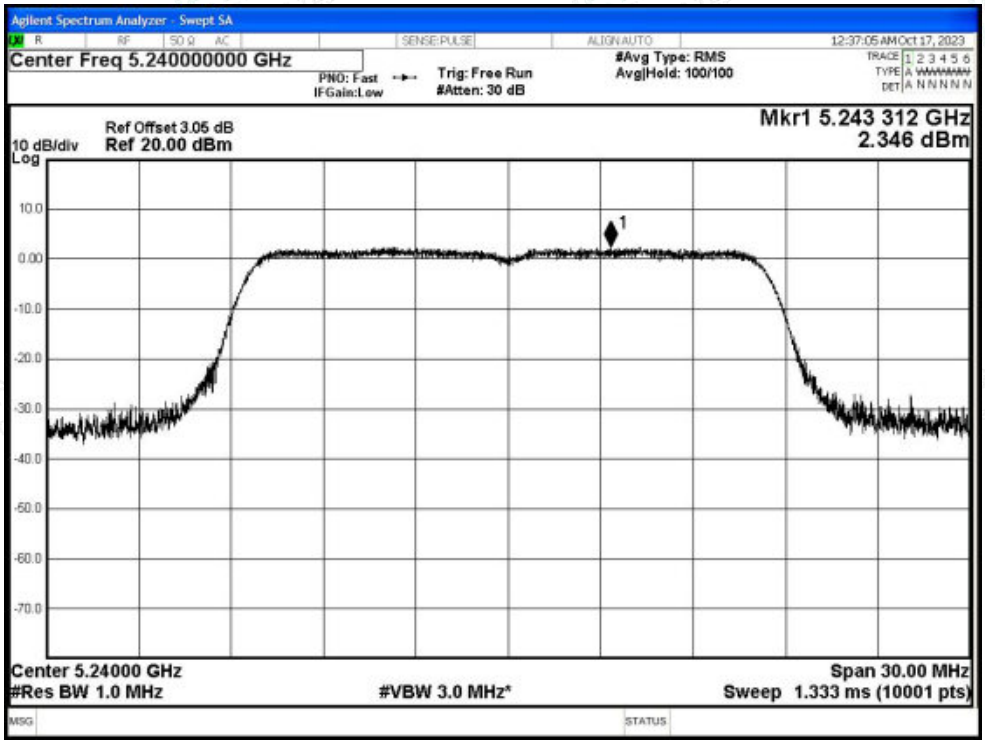
Test Graphs
PSD NVNT a 5180MHz Ant2



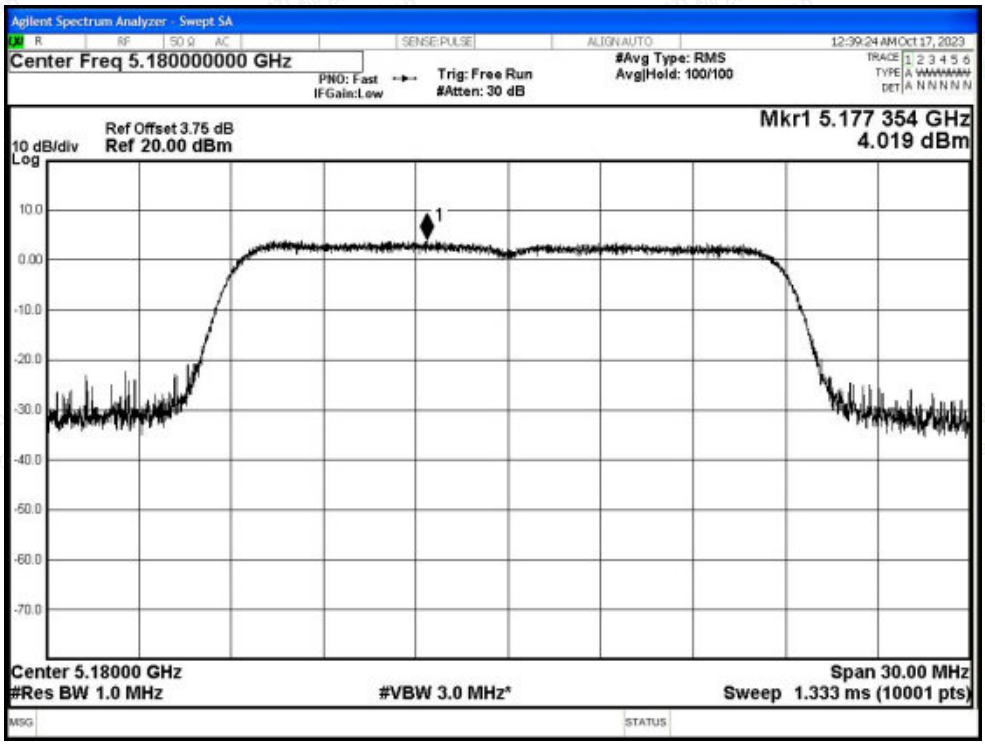
PSD NVNT a 5200MHz Ant2



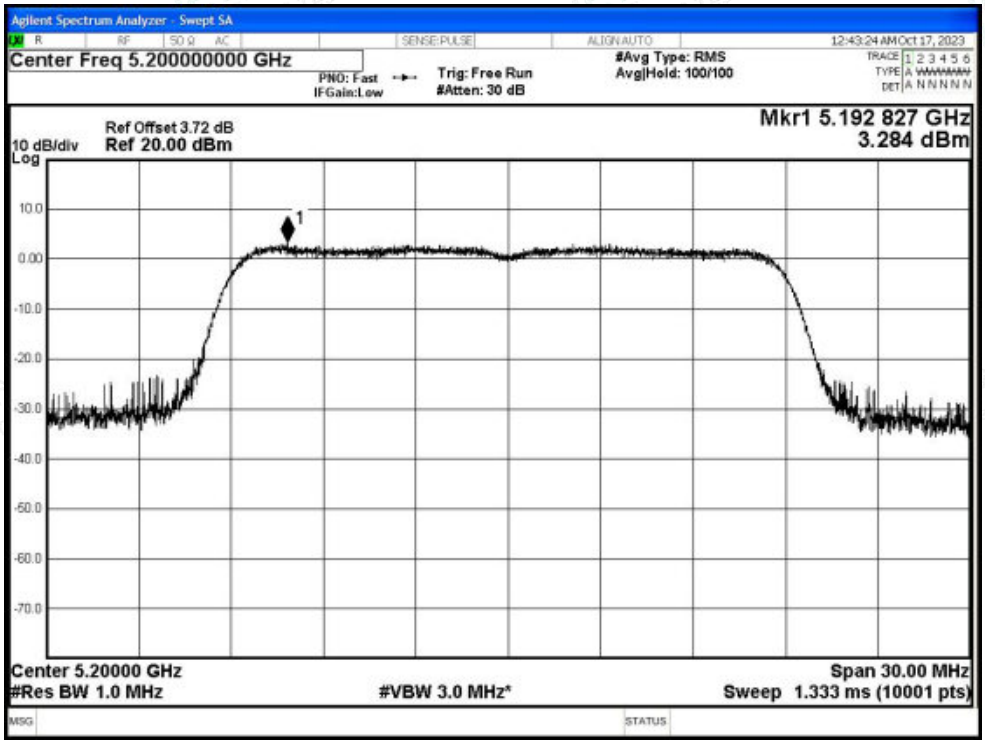
PSD NVNT a 5240MHz Ant2



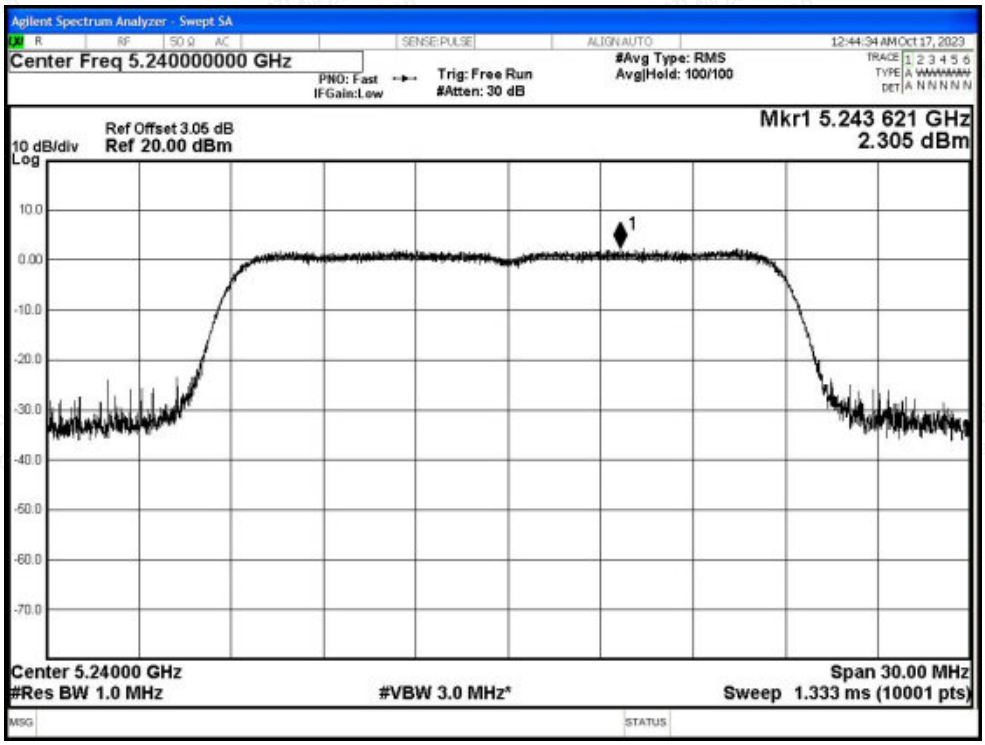
PSD NVNT n20 5180MHz Ant2



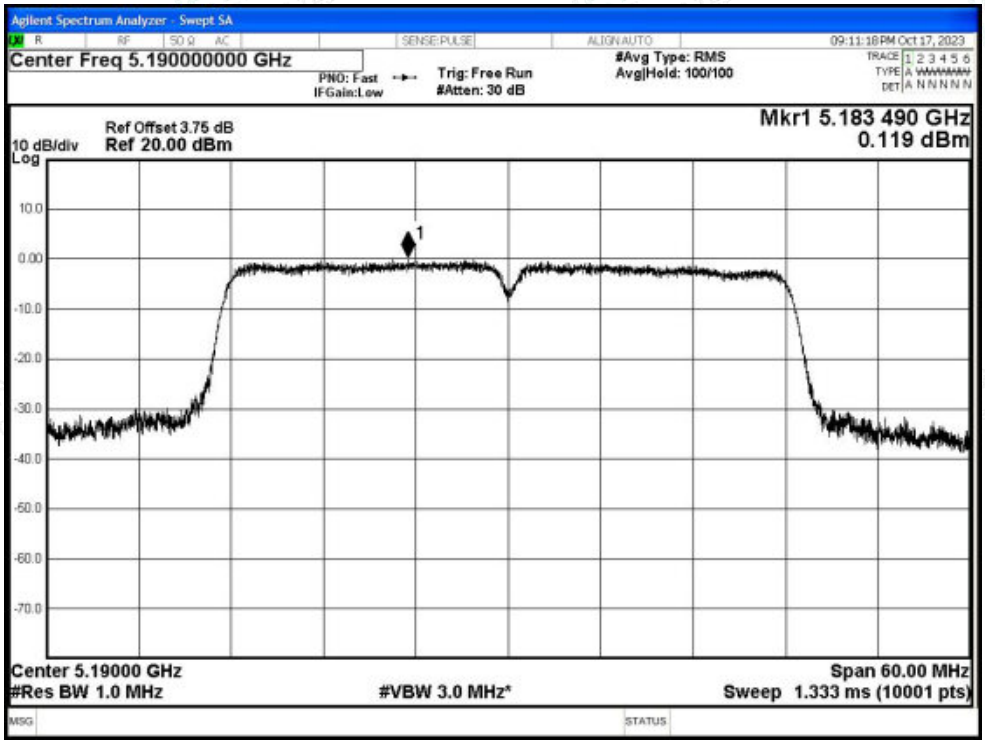
PSD NVNT n20 5200MHz Ant2



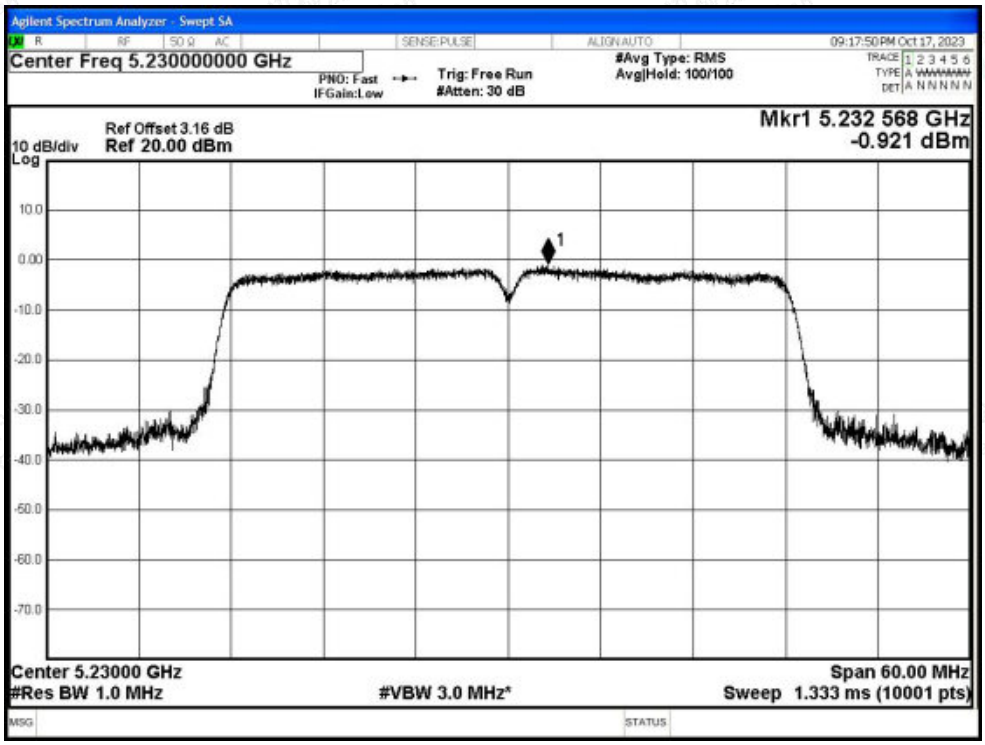
PSD NVNT n20 5240MHz Ant2



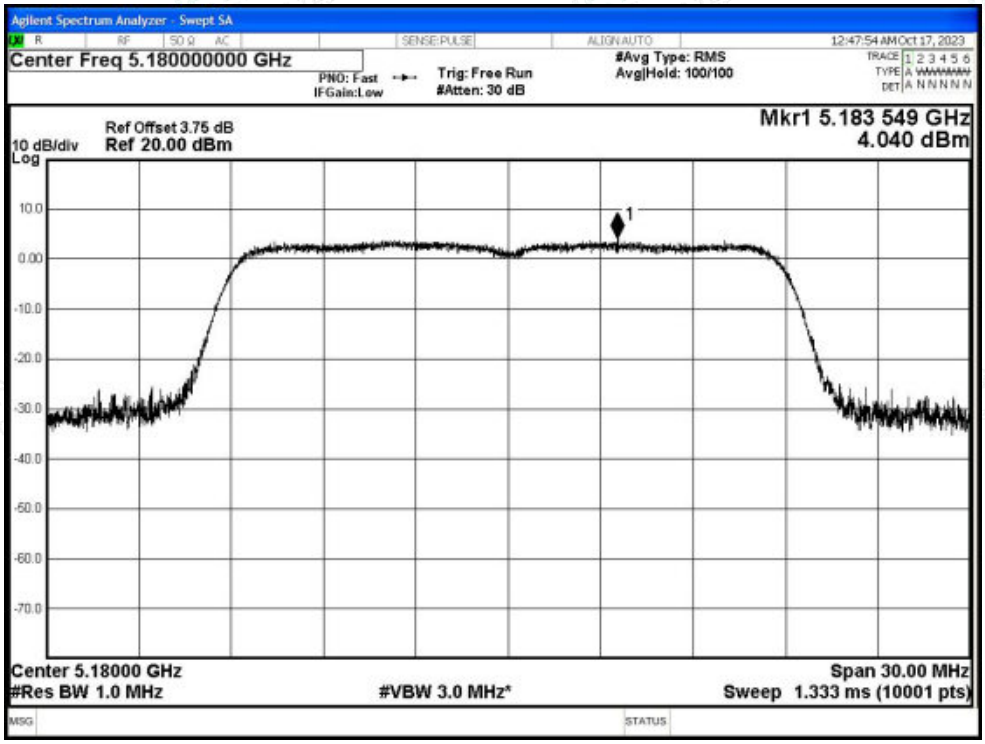
PSD NVNT n40 5190MHz Ant2



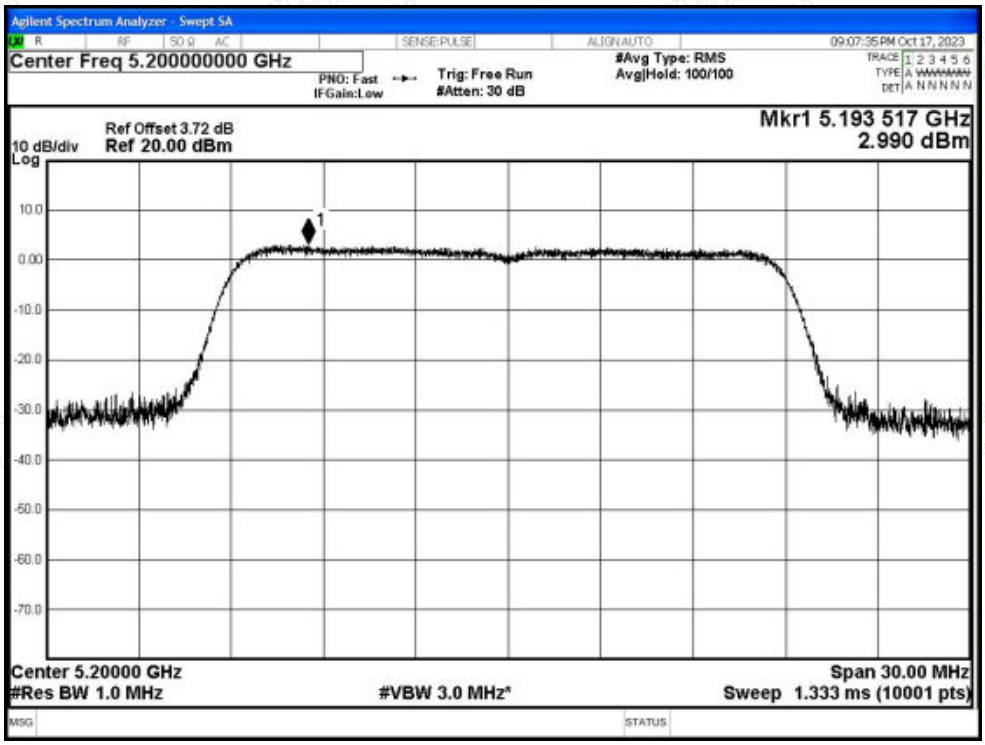
PSD NVNT n40 5230MHz Ant2



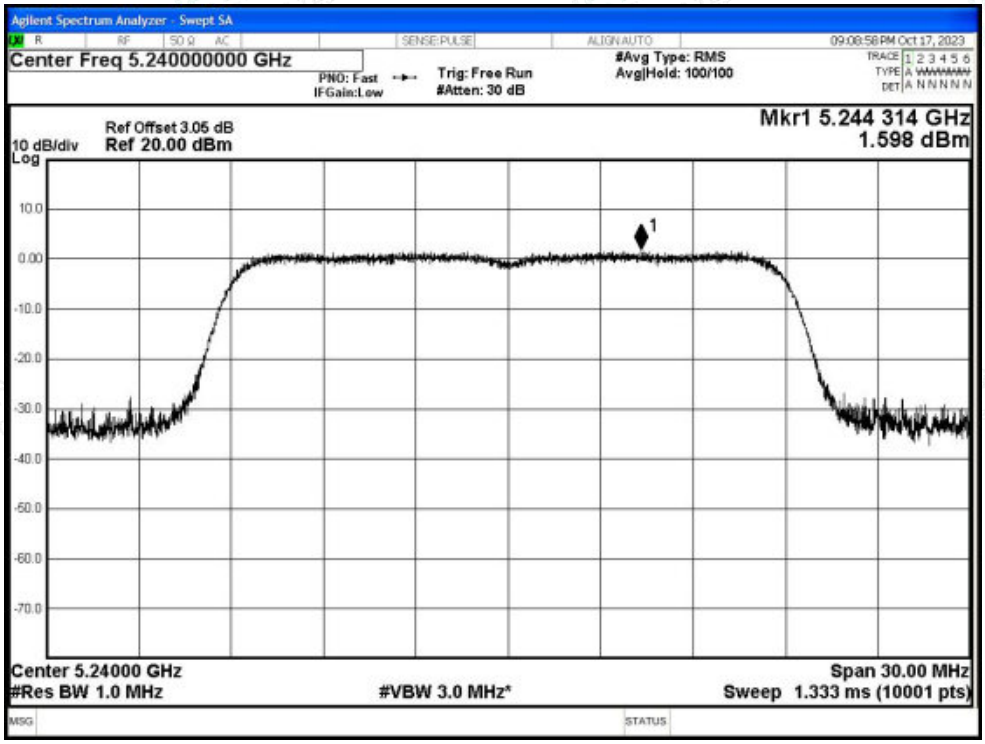
PSD NVNT ac20 5180MHz Ant2



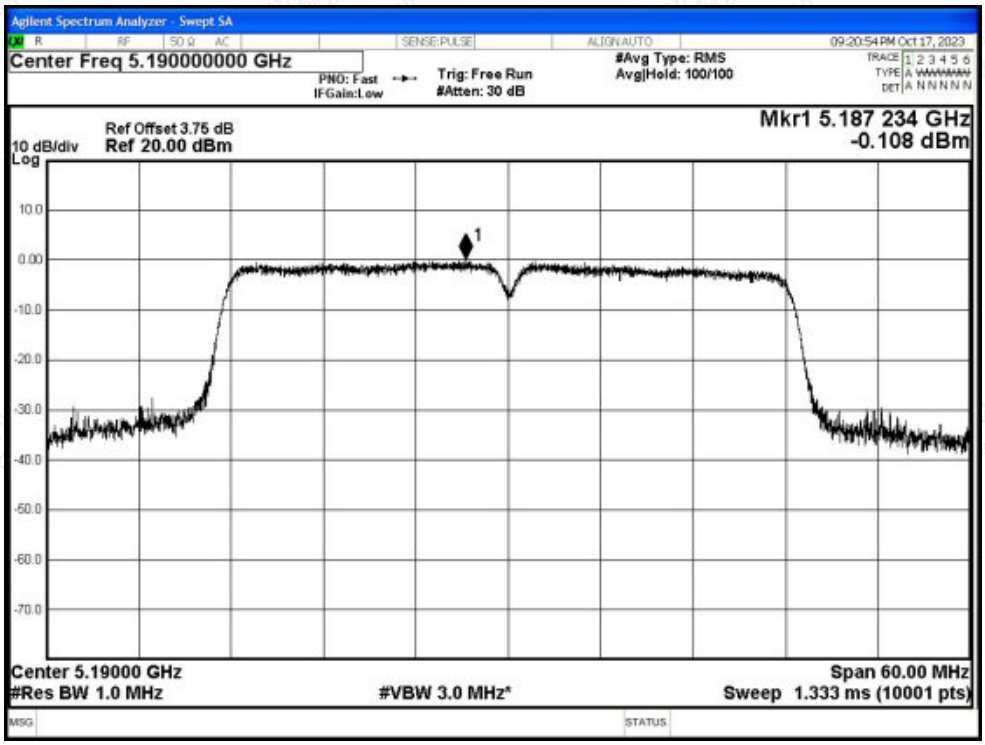
PSD NVNT ac20 5200MHz Ant2



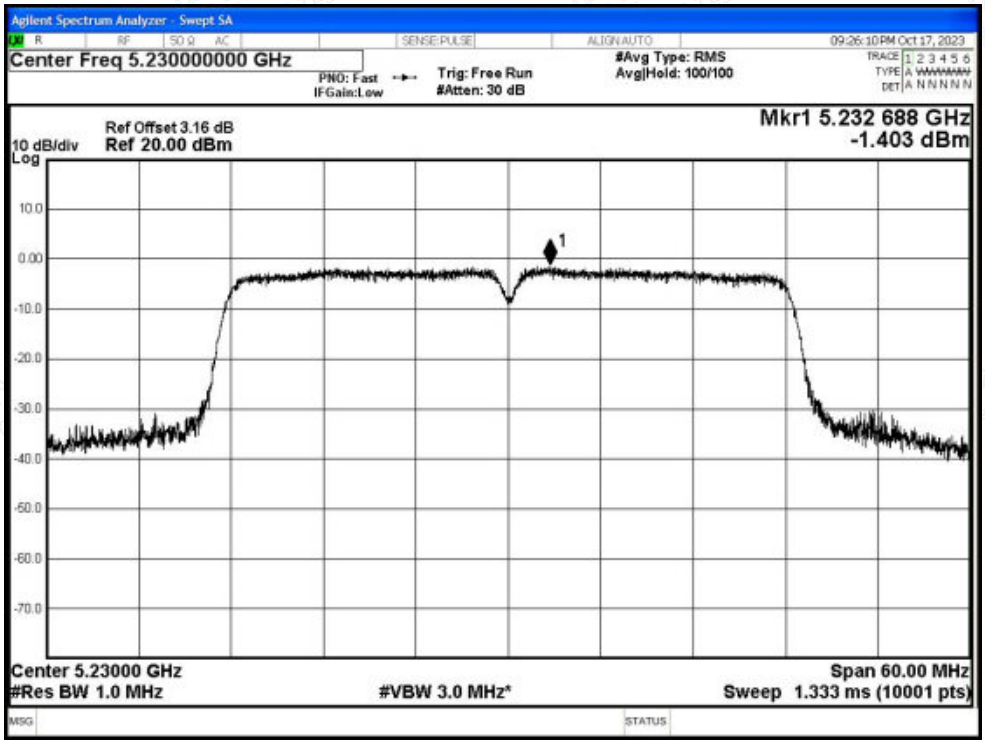
PSD NVNT ac20 5240MHz Ant2



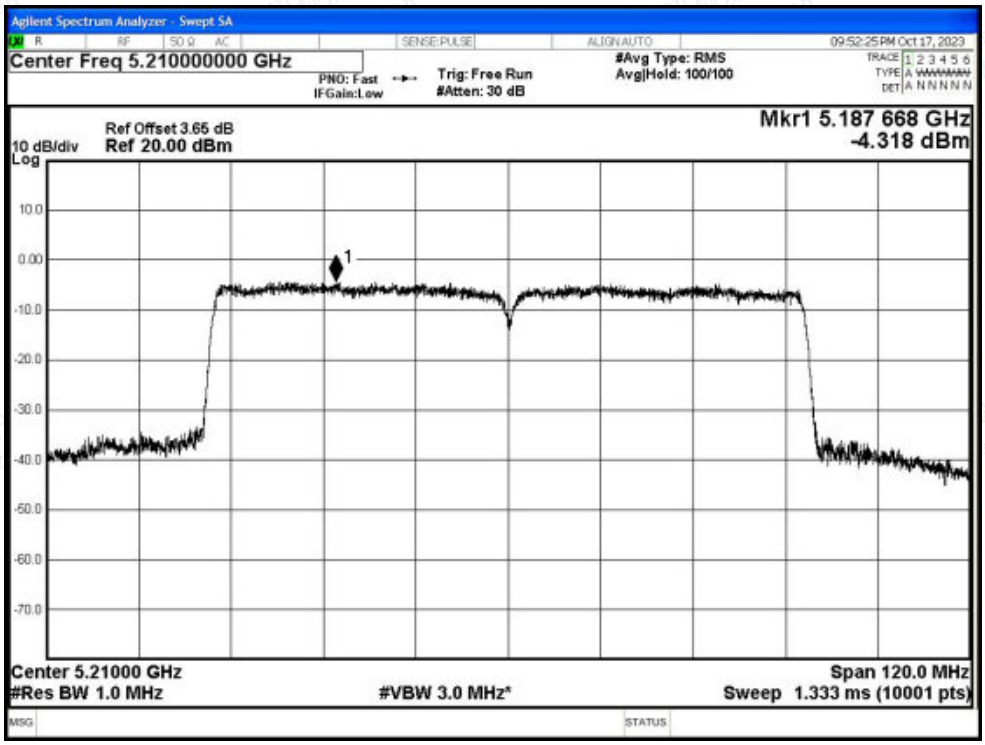
PSD NVNT ac40 5190MHz Ant2



PSD NVNT ac40 5230MHz Ant2



PSD NVNT ac80 5210MHz Ant2

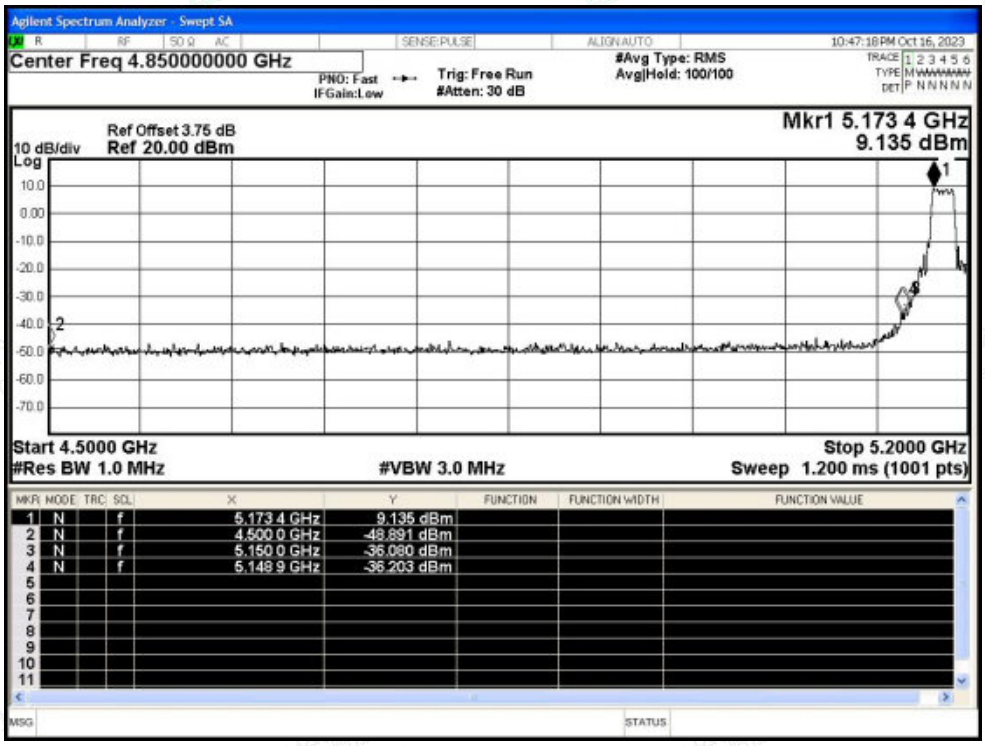


C.4 Restrict Band

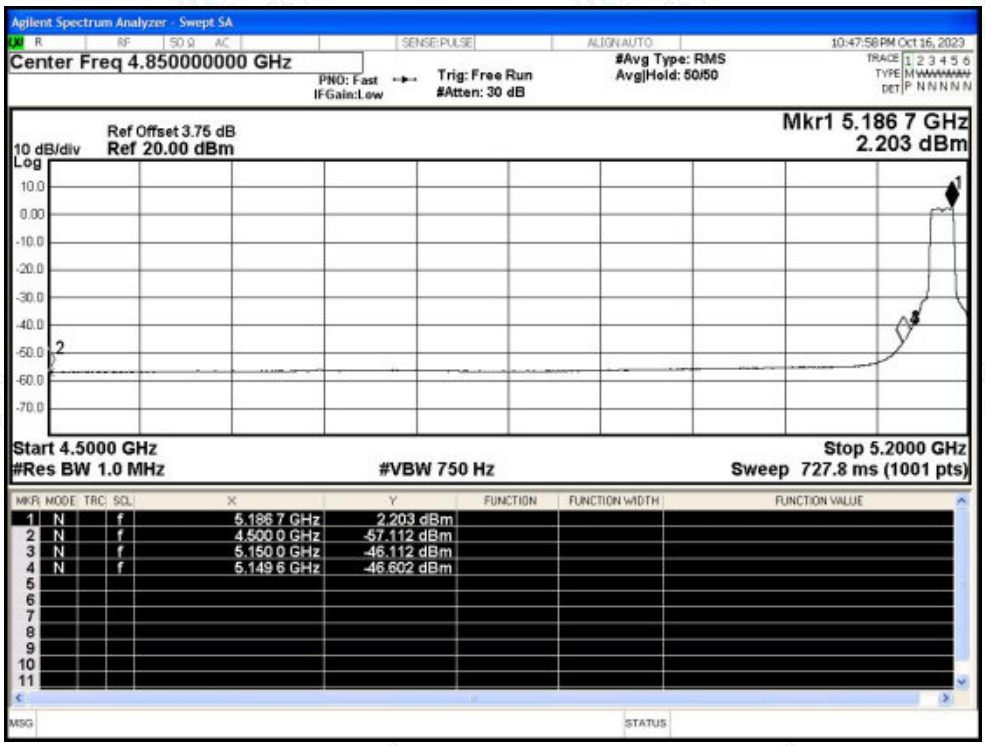
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-48.89	3.25	49.92	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.11	3.25	41.70	Average	54	Pass
NVNT	a	5180	Ant1	5148.9	-36.2	3.25	62.61	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-46.6	3.25	52.21	Average	54	Pass
NVNT	a	5180	Ant1	5150	-36.08	3.25	62.73	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-46.11	3.25	52.70	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.38	3.25	49.43	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.57	3.25	42.24	Average	54	Pass
NVNT	a	5240	Ant1	5360.64	-47.48	3.25	51.33	Peak	68.2	Pass
NVNT	a	5240	Ant1	5376.24	-56.55	3.25	42.26	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.36	3.25	49.45	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.09	3.25	41.72	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.09	3.25	49.72	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.1	3.25	41.71	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-33.35	3.25	65.46	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-45.86	3.25	52.95	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-38.2	3.25	60.61	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-44.84	3.25	53.97	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.97	3.25	48.84	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.69	3.25	42.12	Average	54	Pass
NVNT	n20	5240	Ant1	5376	-46.58	3.25	52.23	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5365.2	-56.37	3.25	42.44	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.79	3.25	49.02	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.99	3.25	41.82	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.88	3.25	49.93	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-56.58	3.25	42.23	Average	54	Pass
NVNT	n40	5190	Ant1	5147.51	-36.85	3.25	61.96	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-45.21	3.25	53.60	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-37.64	3.25	61.17	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-45.21	3.25	53.60	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-50.32	3.25	48.49	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.63	3.25	42.18	Average	54	Pass
NVNT	n40	5230	Ant1	5414.1	-47.17	3.25	51.64	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5394.93	-56.26	3.25	42.55	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.03	3.25	48.78	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.51	3.25	42.30	Average	54	Pass

NVNT	ac20	5180	Ant1	4500	-48.85	3.25	49.96	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-57.01	3.25	41.80	Average	54	Pass
NVNT	ac20	5180	Ant1	5147.5	-38.76	3.25	60.05	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-50.04	3.25	48.77	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-42.37	3.25	56.44	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-49.62	3.25	49.19	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-49.74	3.25	49.07	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.65	3.25	42.16	Average	54	Pass
NVNT	ac20	5240	Ant1	5373.6	-45.95	3.25	52.86	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5387.04	-56.51	3.25	42.30	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-50.24	3.25	48.57	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-56.89	3.25	41.92	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-50.59	3.25	48.22	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-56.78	3.25	42.03	Average	54	Pass
NVNT	ac40	5190	Ant1	5146.05	-33.75	3.25	65.06	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-46	3.25	52.81	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-35.65	3.25	63.16	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-46	3.25	52.81	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-50.47	3.25	48.34	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.73	3.25	42.08	Average	54	Pass
NVNT	ac40	5230	Ant1	5438.67	-47.38	3.25	51.43	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5409.51	-56.25	3.25	42.56	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.78	3.25	49.03	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-56.66	3.25	42.15	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-44.21	3.25	54.60	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-51.21	3.25	47.60	Average	54	Pass
NVNT	ac80	5210	Ant1	5354.4	-42.11	3.25	56.70	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350.77	-51.03	3.25	47.78	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-50.36	3.25	48.45	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-55.69	3.25	43.12	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-50.1	3.25	48.71	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-56.66	3.25	42.15	Average	54	Pass
NVNT	ac80	5210	Ant1	5147.8	-37.42	3.25	61.39	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5149.38	-45.7	3.25	53.11	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-39.07	3.25	59.74	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-45.2	3.25	53.61	Average	54	Pass

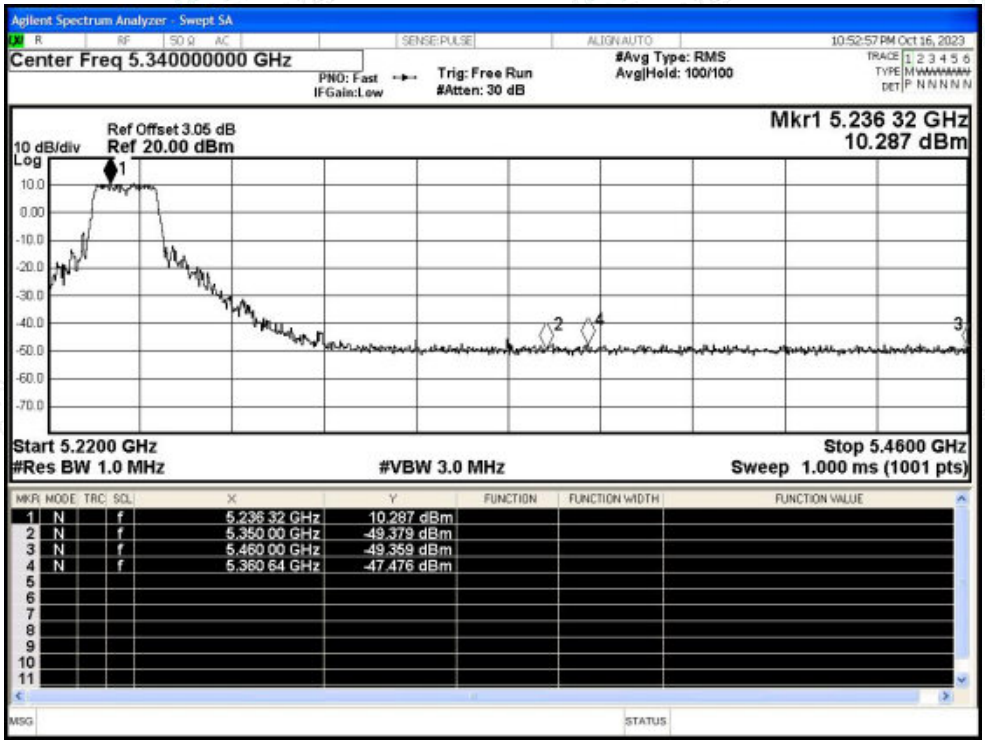
Test Graphs
Restrict Band NVNT a 5180MHz Ant1 Peak



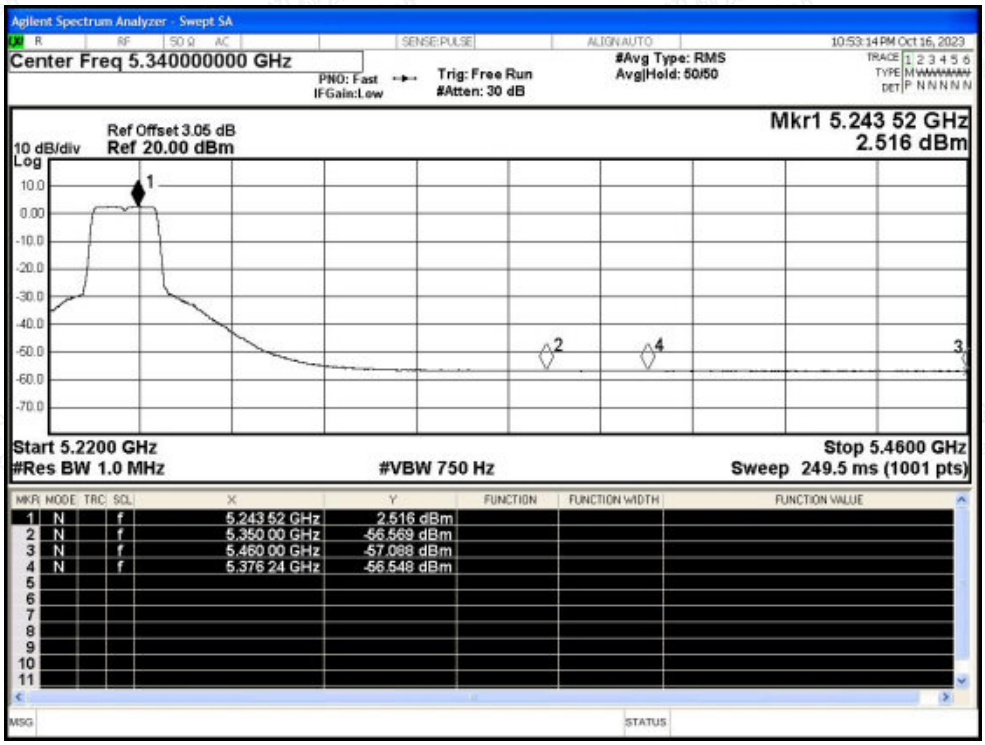
Restrict Band NVNT a 5180MHz Ant1 Average



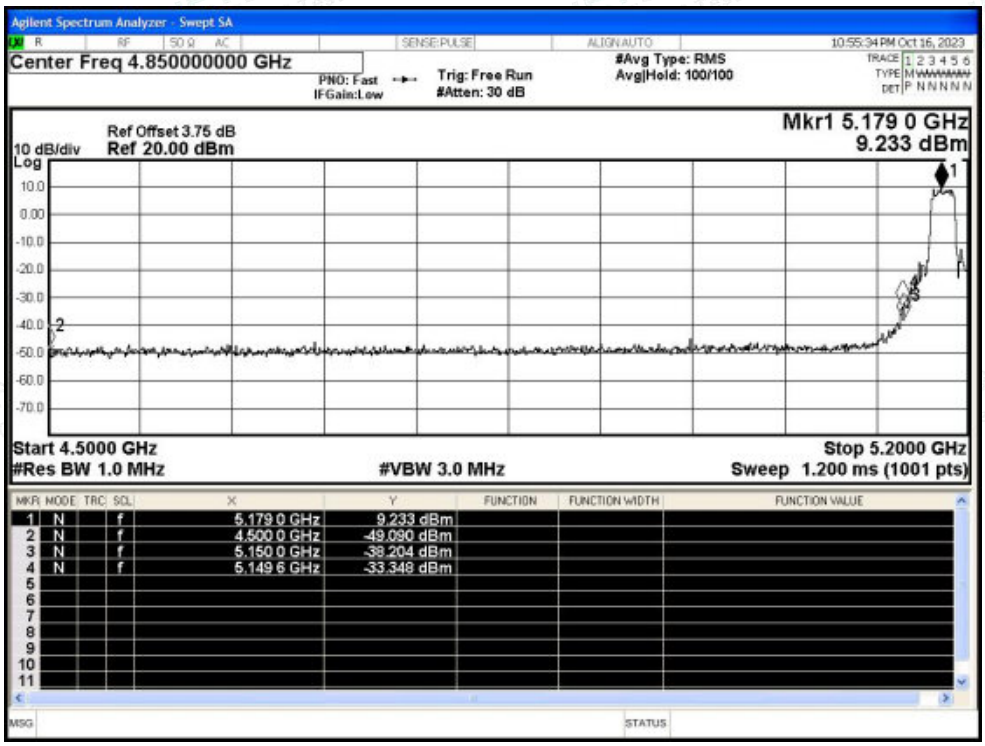
Restrict Band NVNT a 5240MHz Ant1 Peak



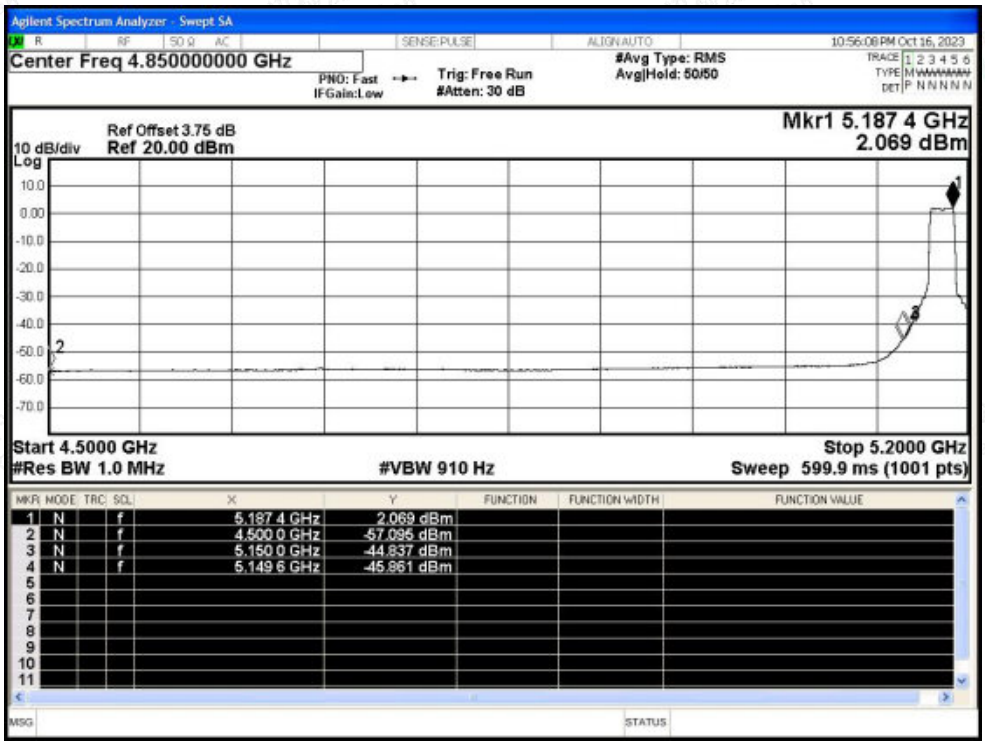
Restrict Band NVNT a 5240MHz Ant1 Average



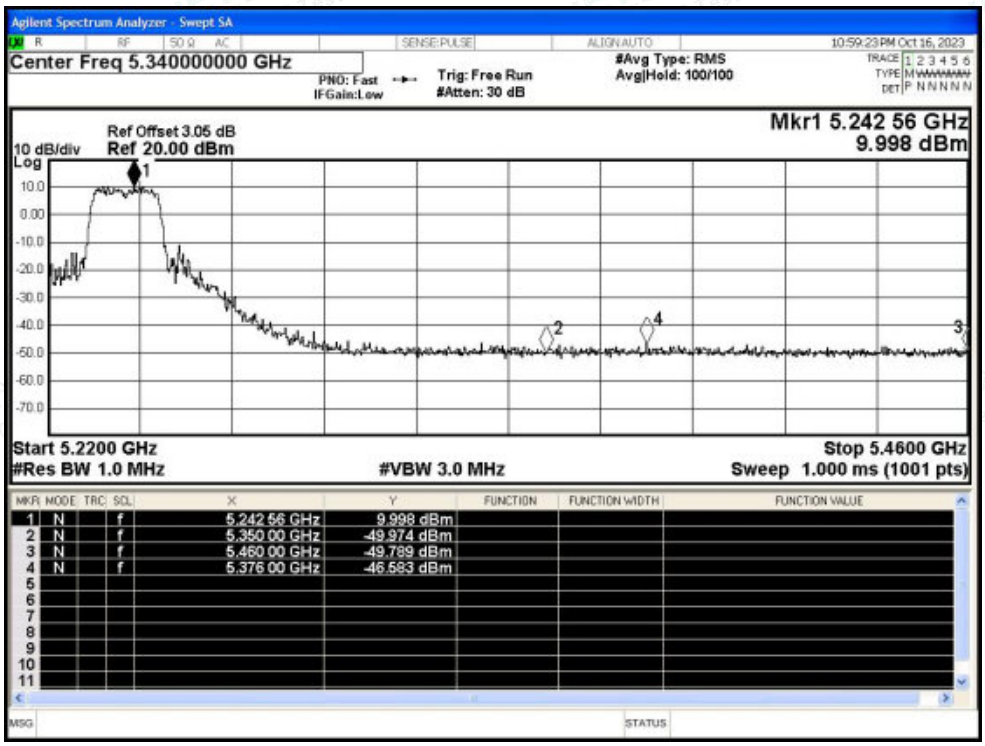
Restrict Band NVNT n20 5180MHz Ant1 Peak



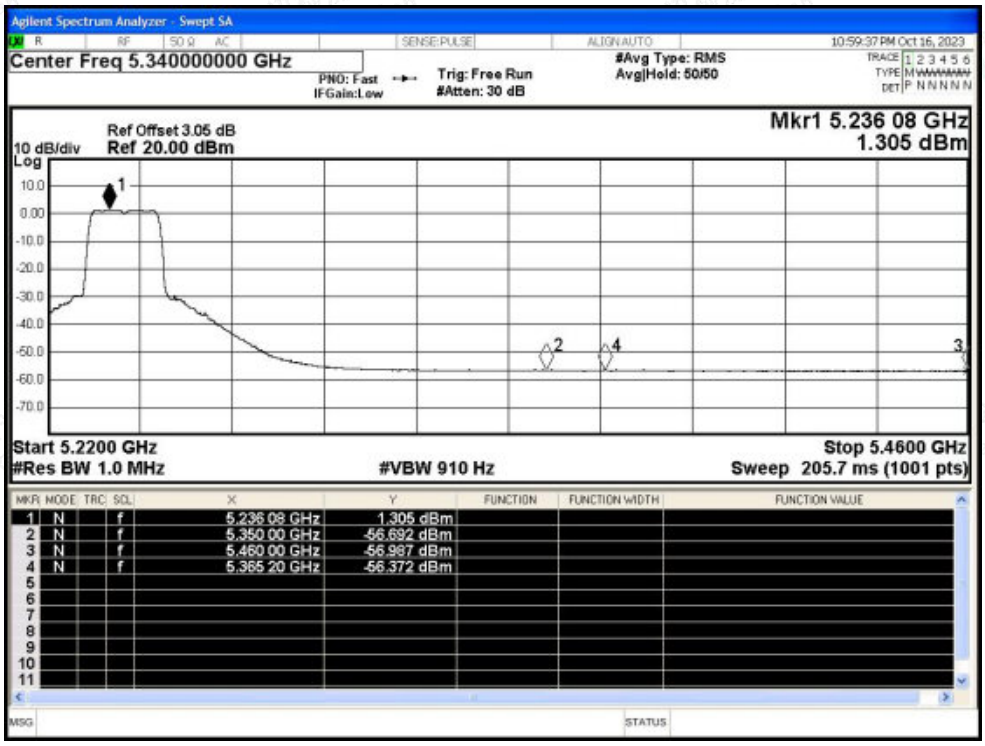
Restrict Band NVNT n20 5180MHz Ant1 Average



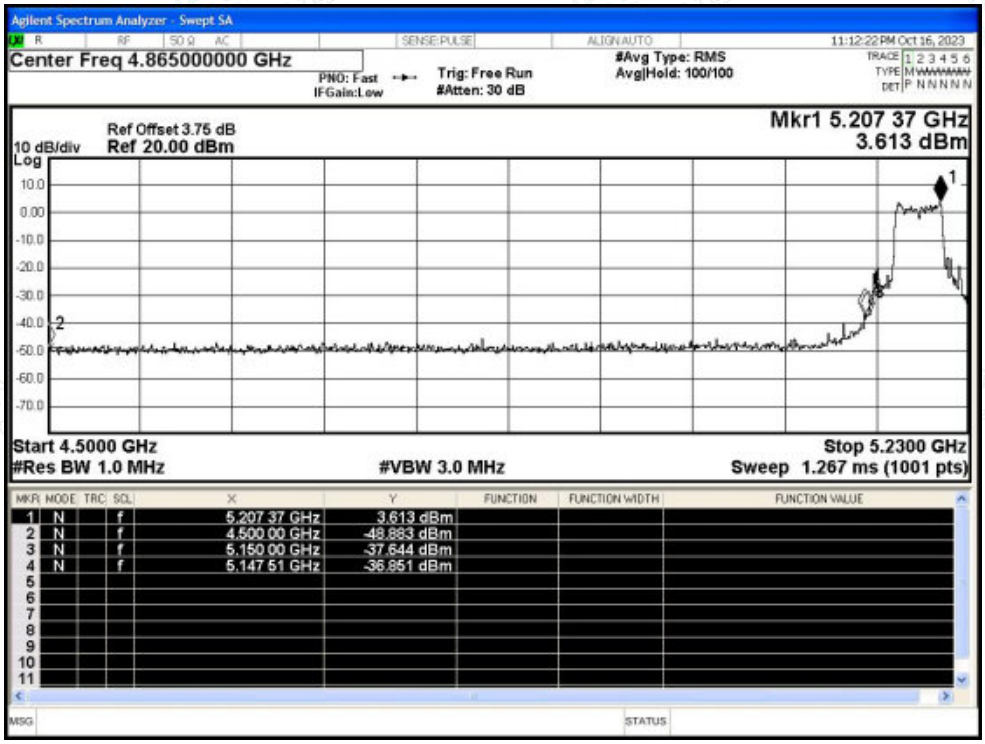
Restrict Band NVNT n20 5240MHz Ant1 Peak



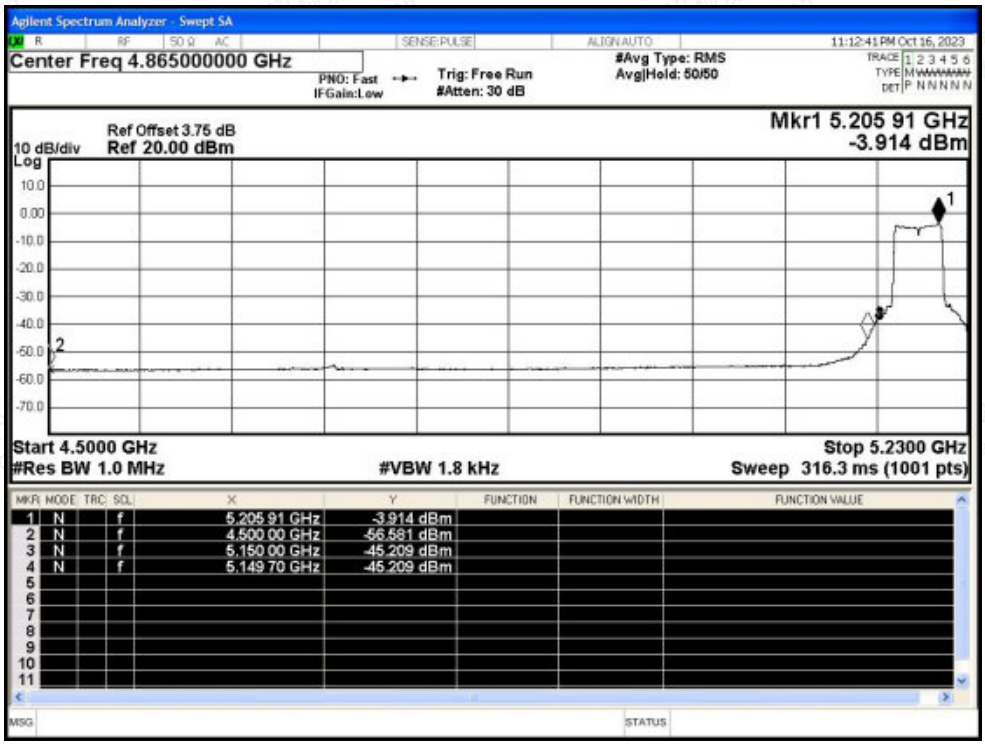
Restrict Band NVNT n20 5240MHz Ant1 Average



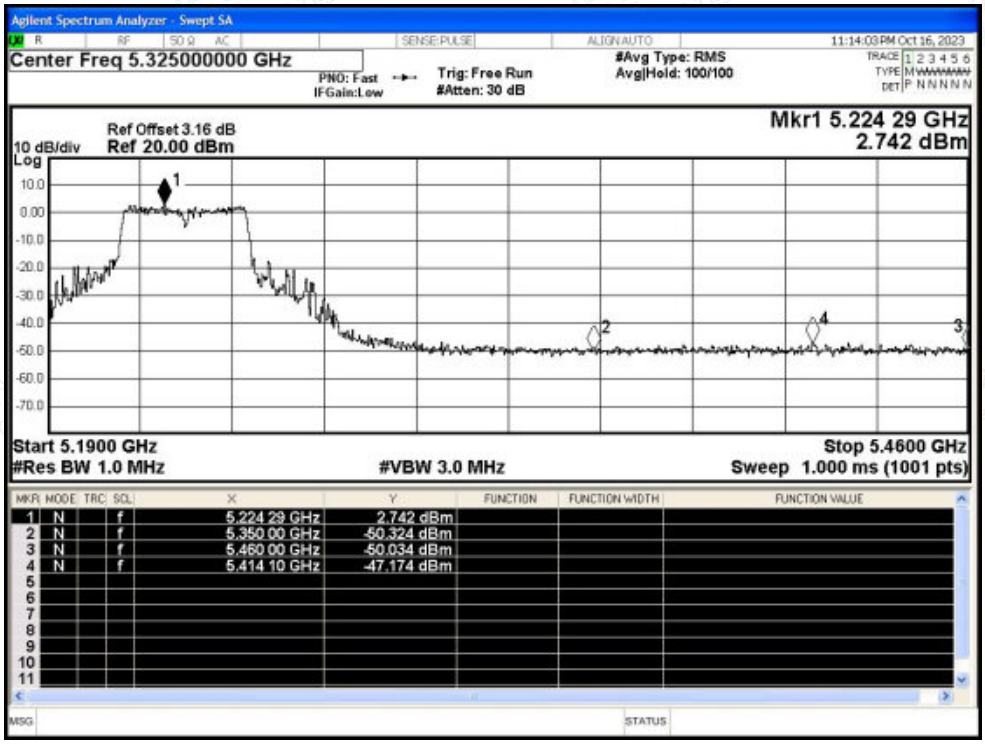
Restrict Band NVNT n40 5190MHz Ant1 Peak



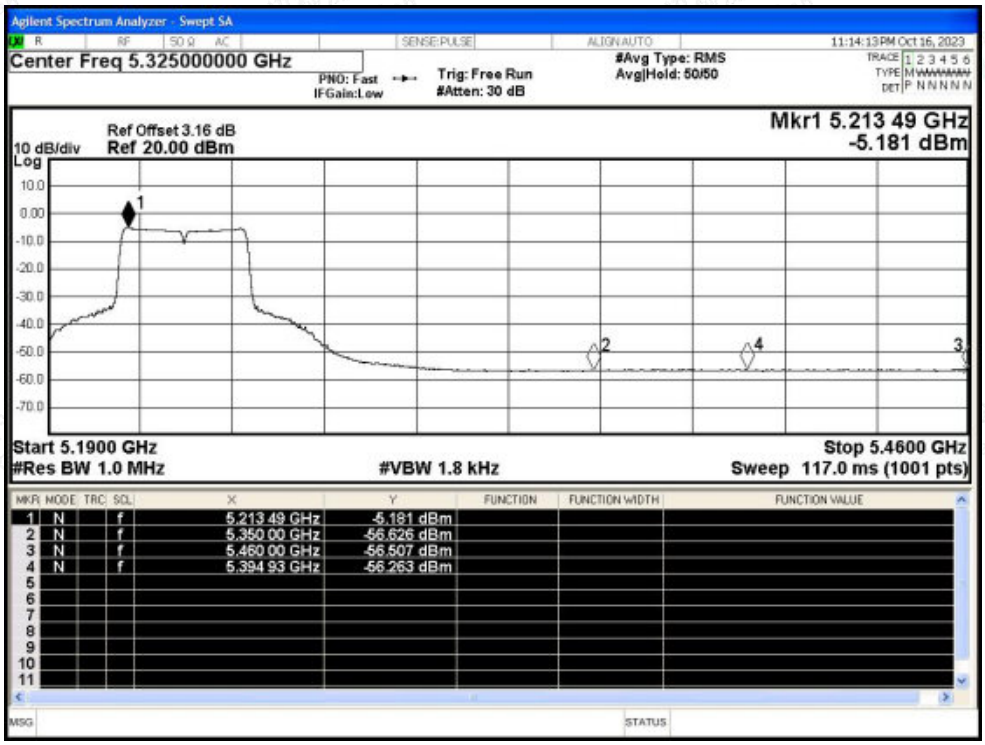
Restrict Band NVNT n40 5190MHz Ant1 Average



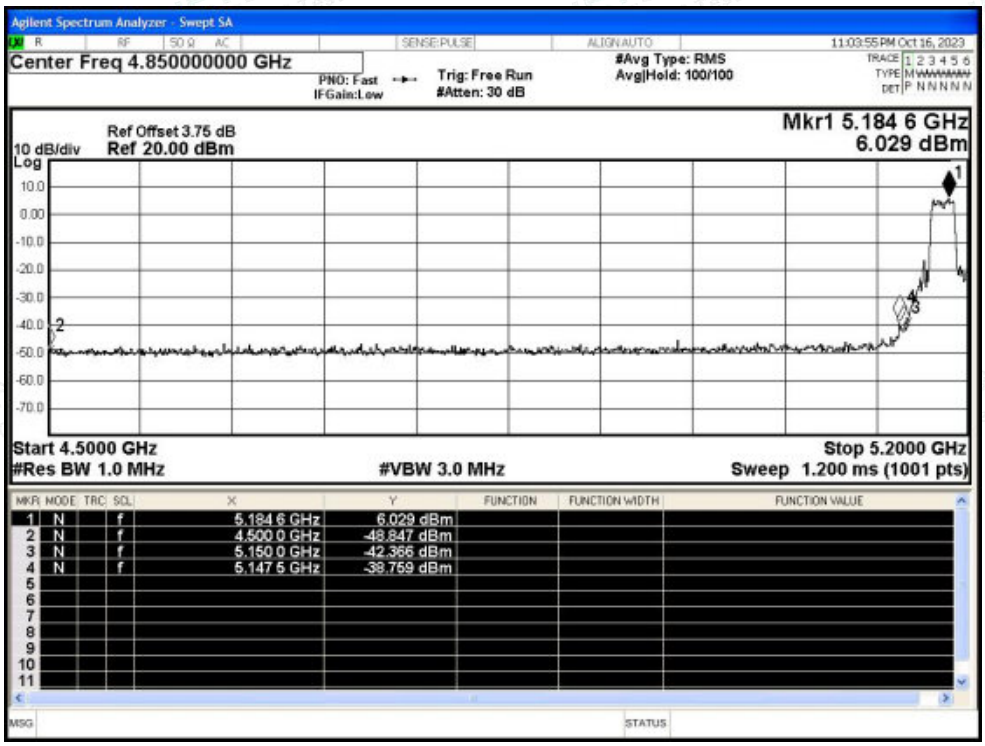
Restrict Band NVNT n40 5230MHz Ant1 Peak



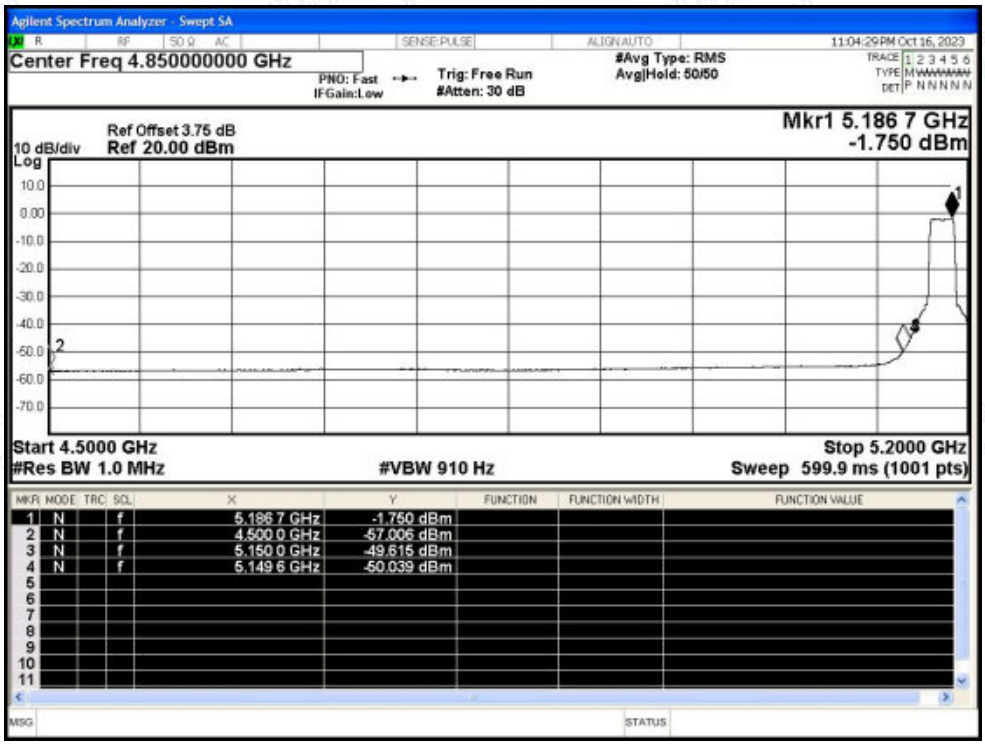
Restrict Band NVNT n40 5230MHz Ant1 Average



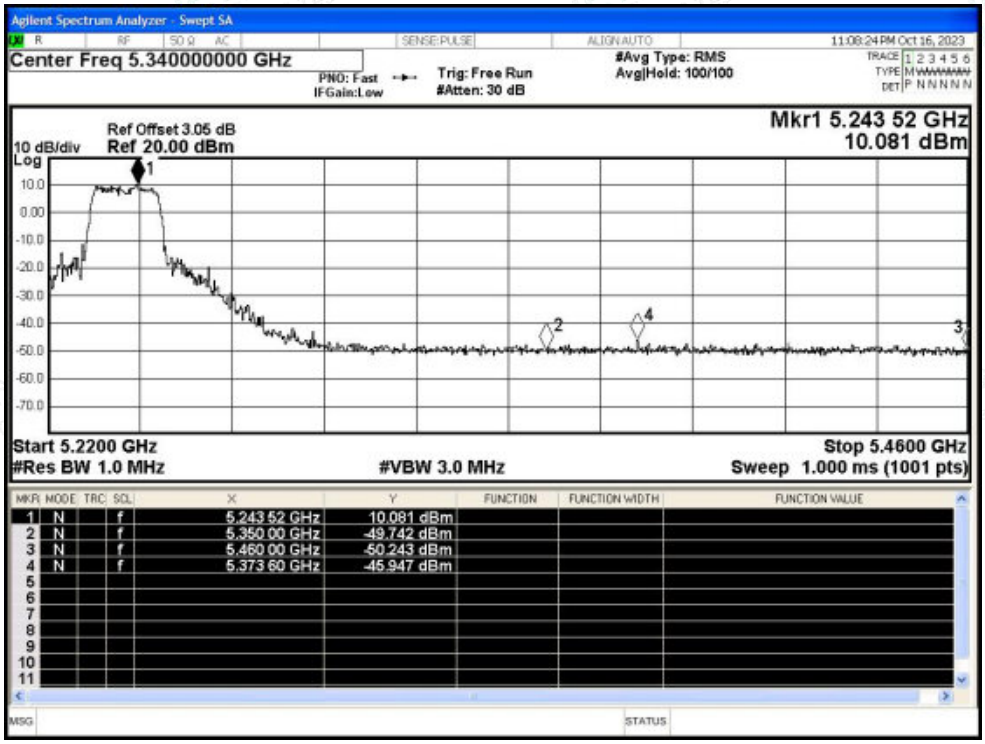
Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average



Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average