Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: Tablet PC

Test Model: MOTO- A10

Environmental Conditions

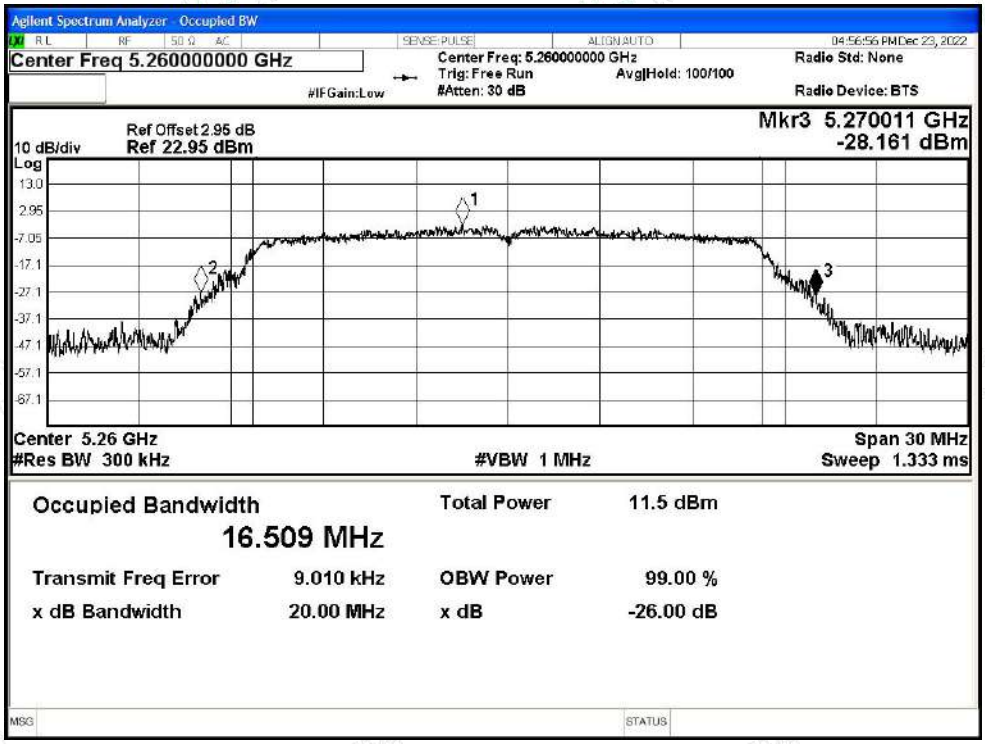
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Cheng
Supervised by:	Ling Zhu

E.1 -26dB Bandwidth

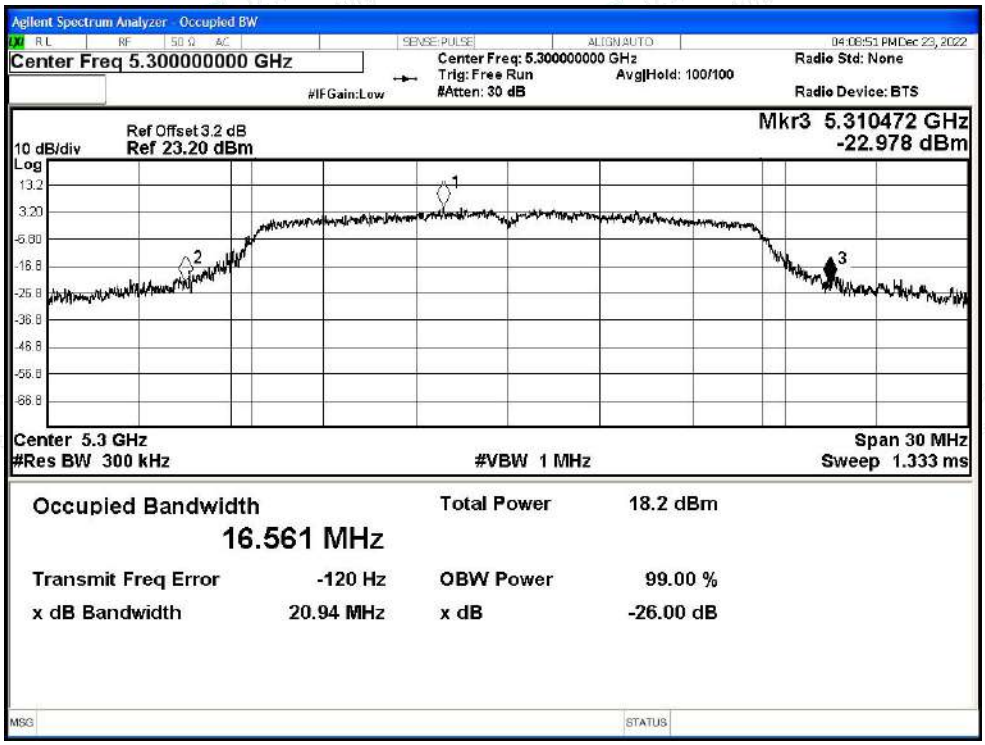
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	20.005	Pass
NVNT	a	5300	Ant1	20.943	Pass
NVNT	a	5320	Ant1	20.223	Pass
NVNT	n20	5260	Ant1	20.067	Pass
NVNT	n20	5300	Ant1	23.806	Pass
NVNT	n20	5320	Ant1	21.985	Pass
NVNT	n40	5270	Ant1	39.443	Pass
NVNT	n40	5310	Ant1	39.841	Pass
NVNT	ac20	5260	Ant1	20.195	Pass
NVNT	ac20	5300	Ant1	22.044	Pass
NVNT	ac20	5320	Ant1	20.387	Pass
NVNT	ac40	5270	Ant1	39.363	Pass
NVNT	ac40	5310	Ant1	42.075	Pass
NVNT	ac80	5290	Ant1	80.224	Pass

Test Graphs

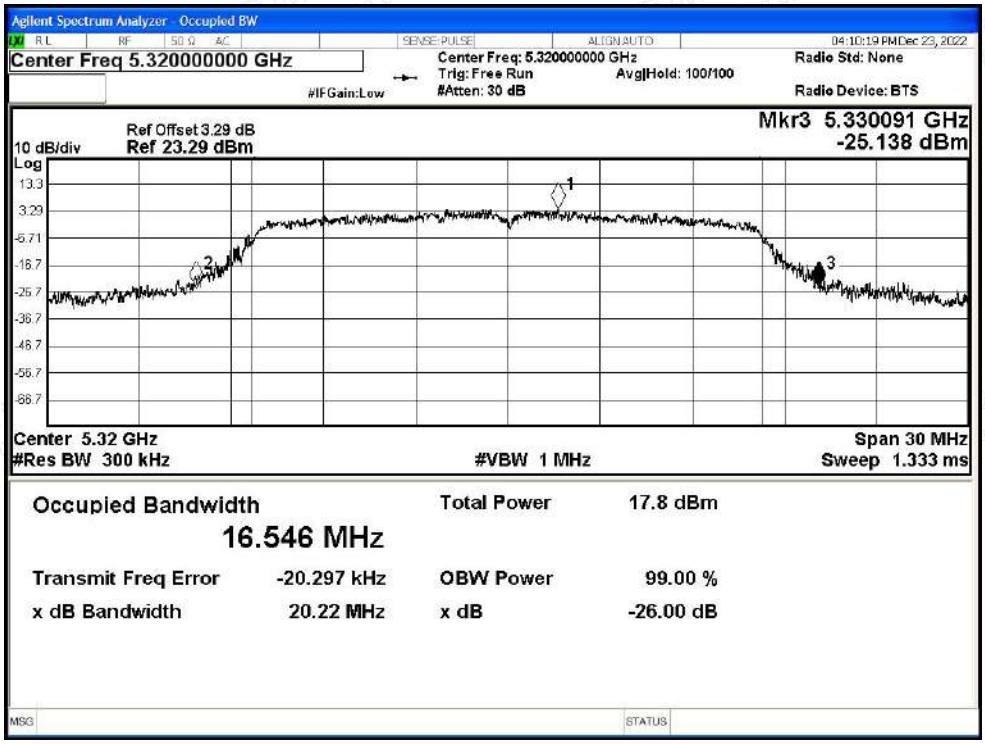
-26dB Bandwidth NVNT a 5260MHz Ant1



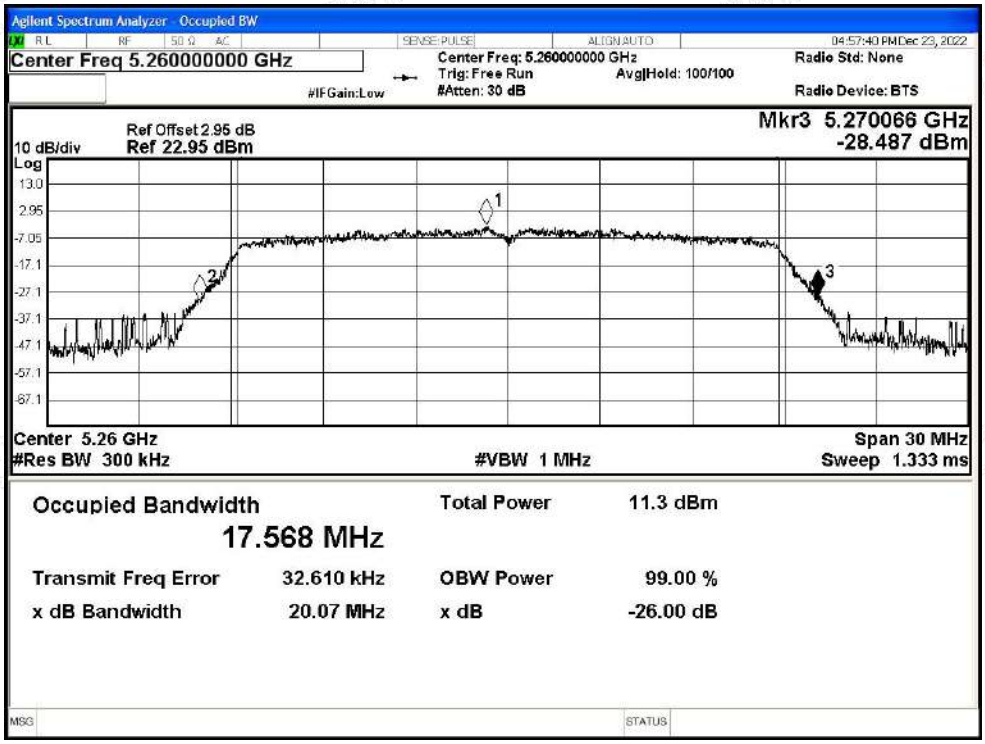
-26dB Bandwidth NVNT a 5300MHz Ant1



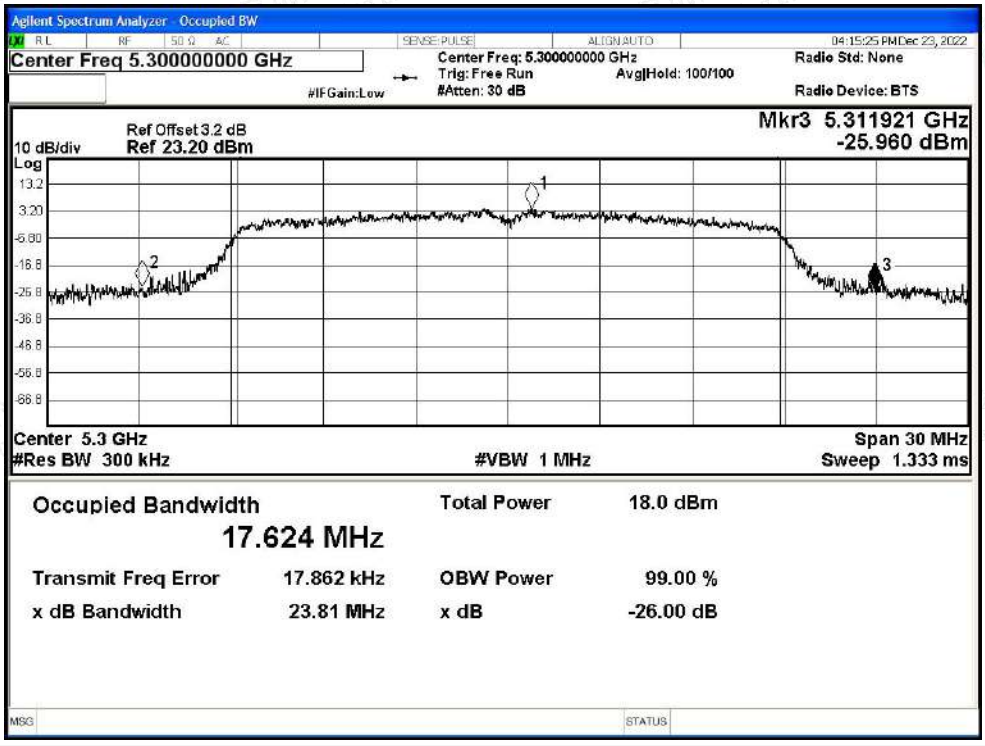
-26dB Bandwidth NVNT a 5320MHz Ant1



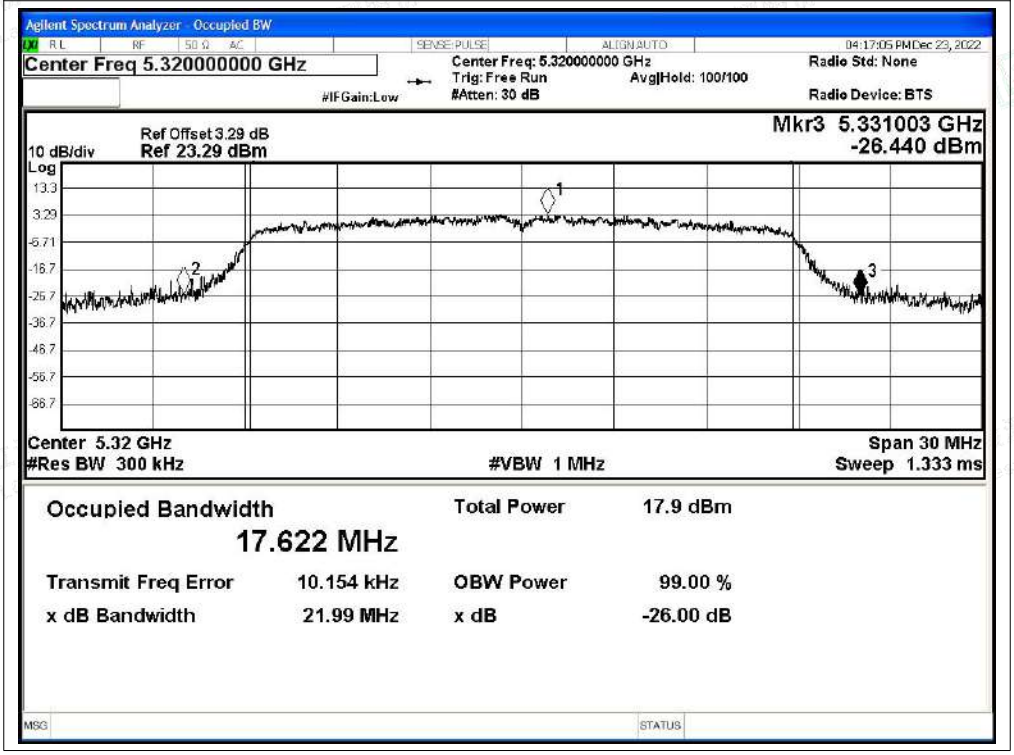
-26dB Bandwidth NVNT n20 5260MHz Ant1



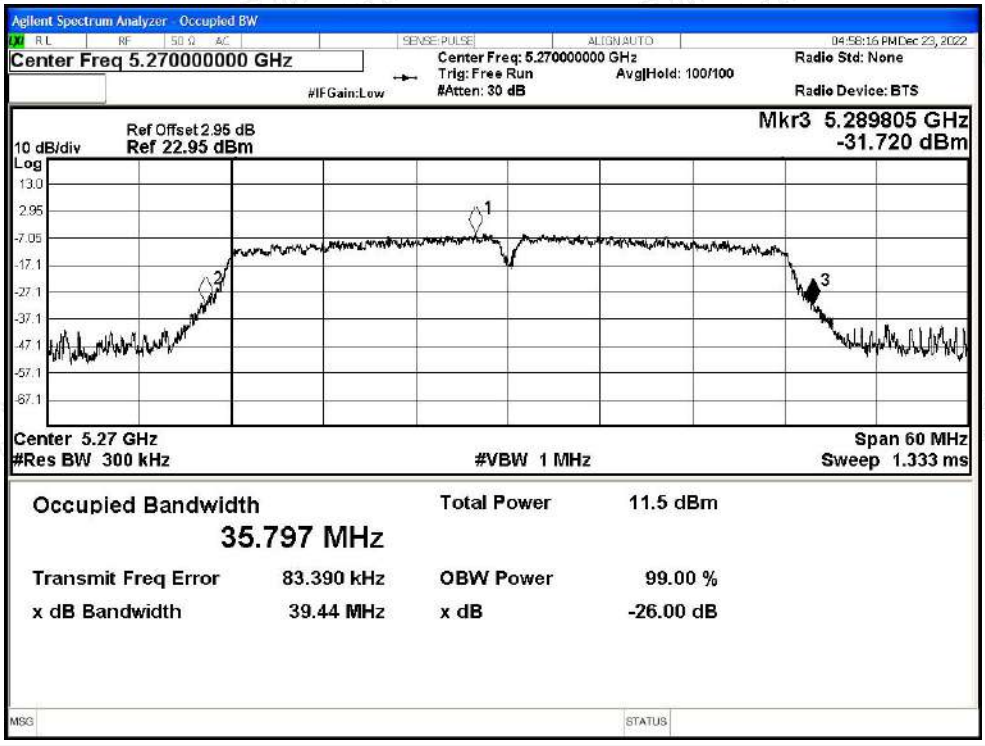
-26dB Bandwidth NVNT n20 5300MHz Ant1



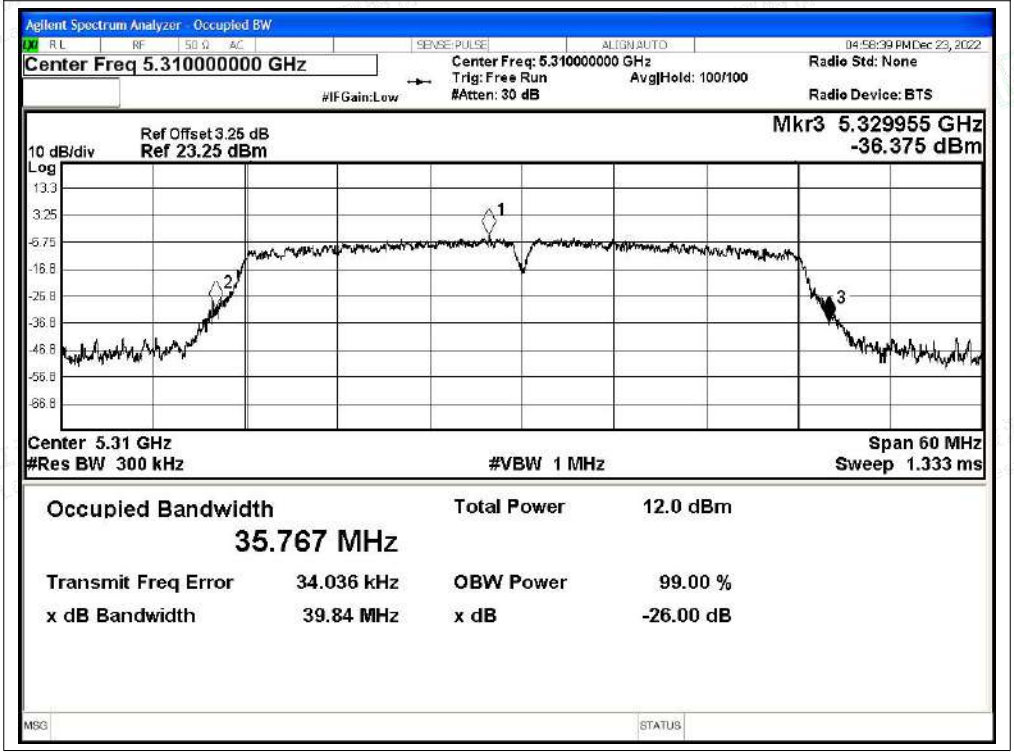
-26dB Bandwidth NVNT n20 5320MHz Ant1



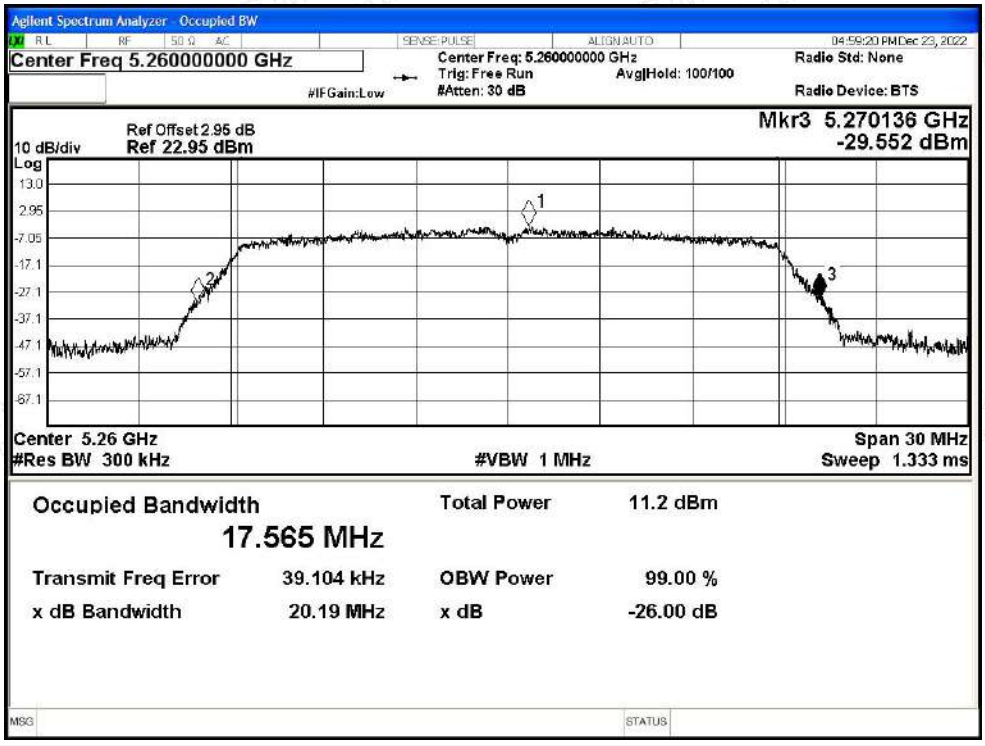
-26dB Bandwidth NVNT n40 5270MHz Ant1



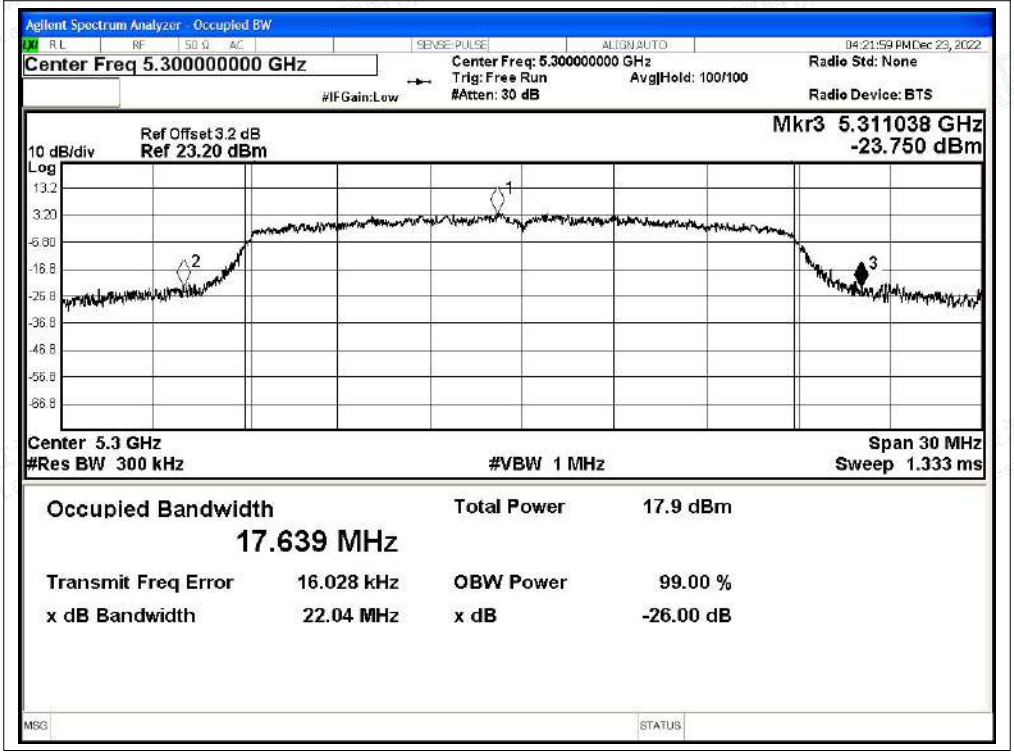
-26dB Bandwidth NVNT n40 5310MHz Ant1



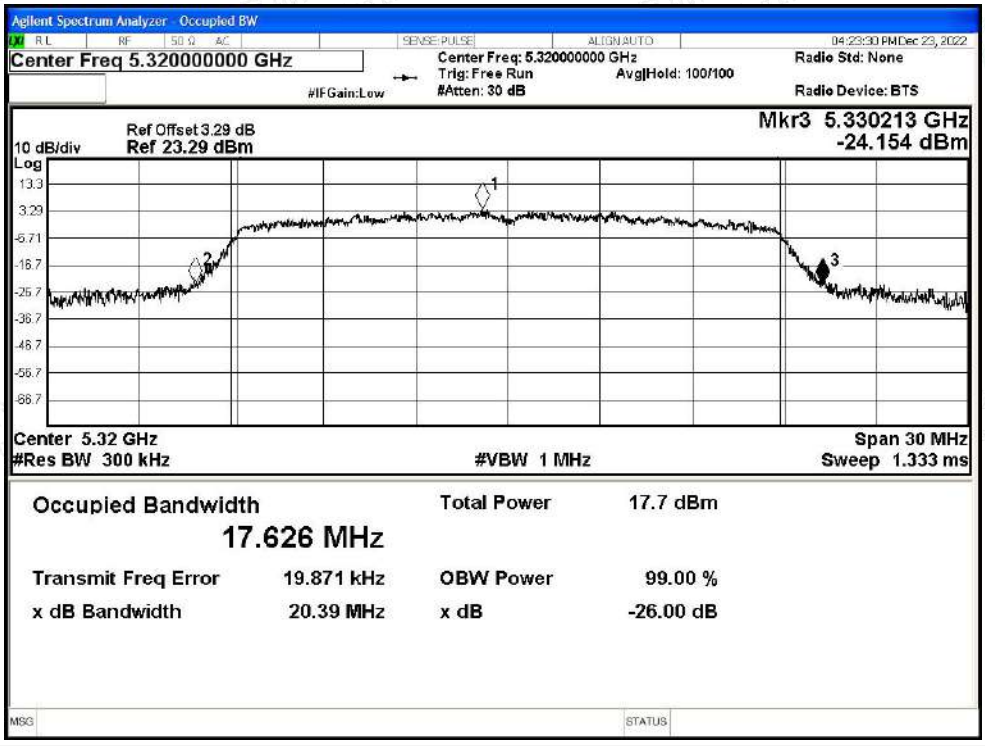
-26dB Bandwidth NVNT ac20 5260MHz Ant1



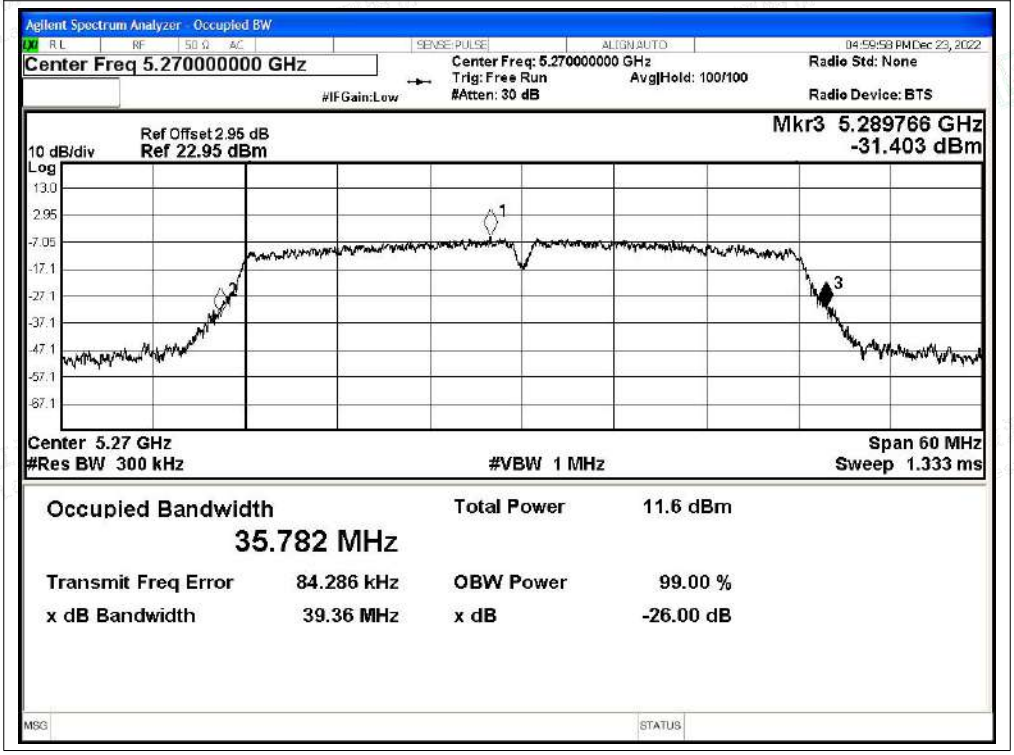
-26dB Bandwidth NVNT ac20 5300MHz Ant1



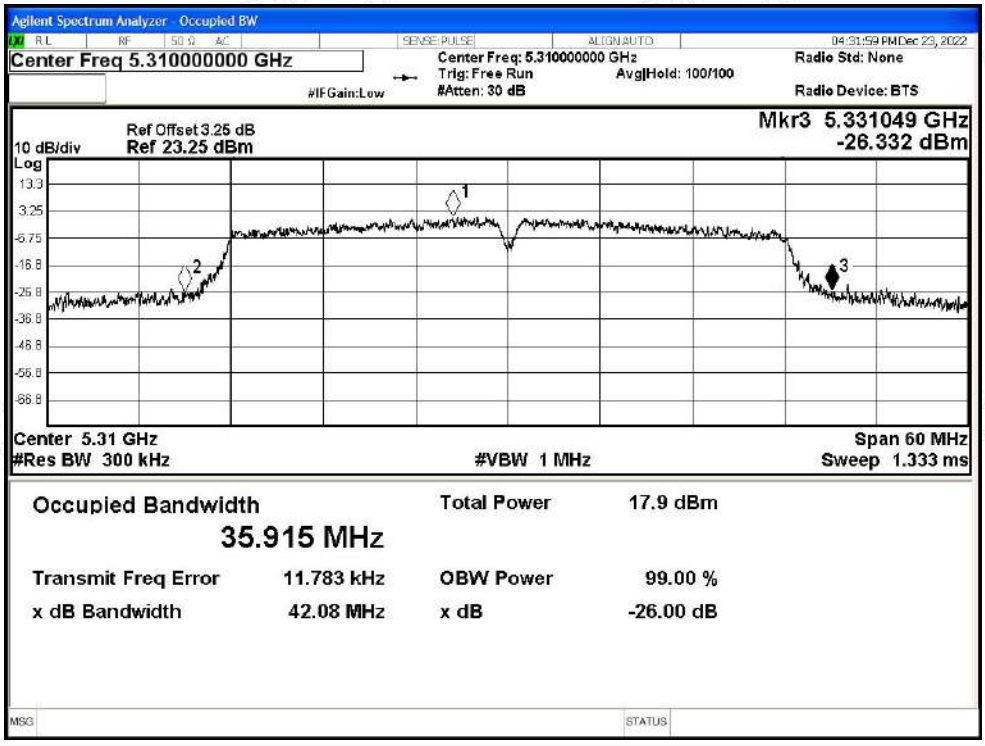
-26dB Bandwidth NVNT ac20 5320MHz Ant1



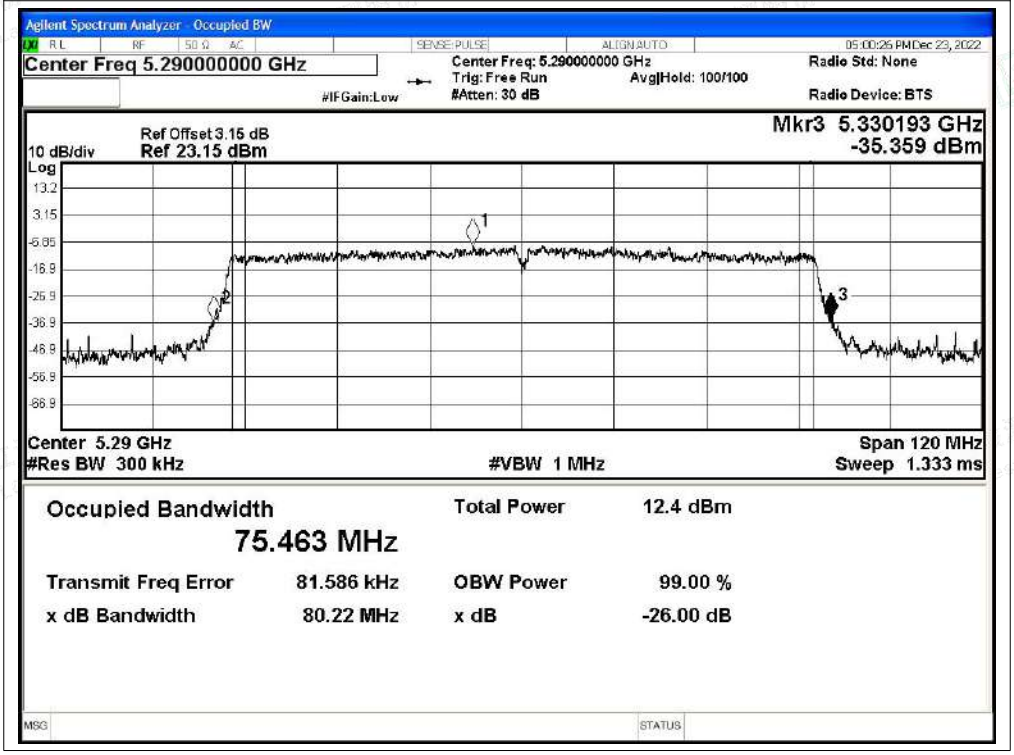
-26dB Bandwidth NVNT ac40 5270MHz Ant1



-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1



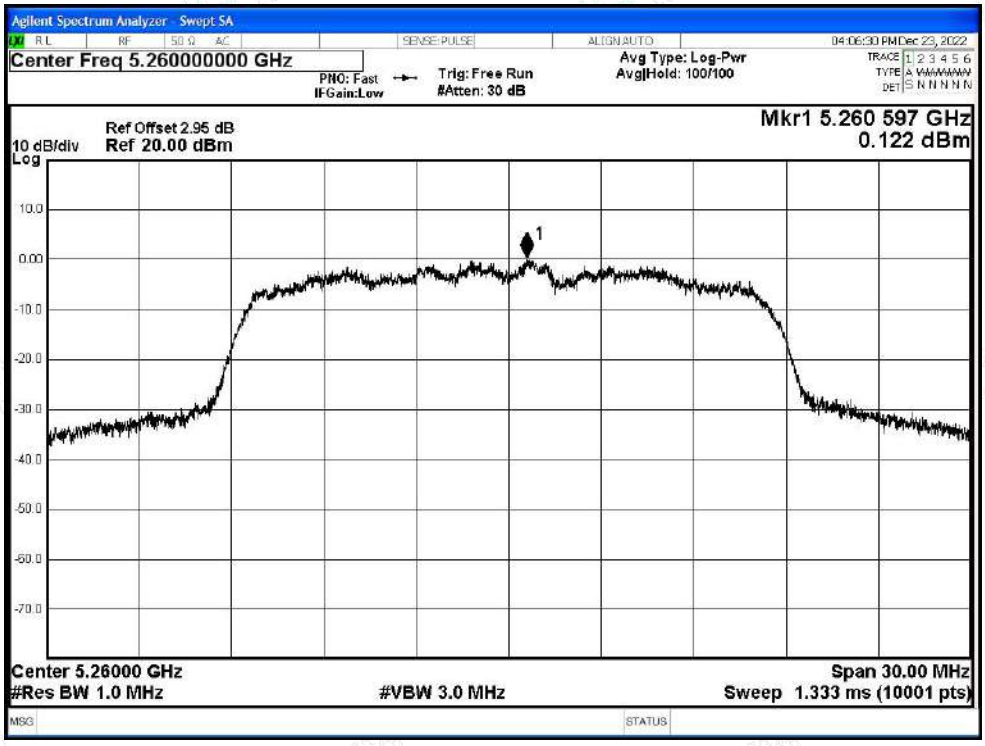
E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	6.70	24	Pass
NVNT	a	5300	Ant1	6.63	24	Pass
NVNT	a	5320	Ant1	6.29	24	Pass
NVNT	n20	5260	Ant1	6.84	24	Pass
NVNT	n20	5300	Ant1	6.47	24	Pass
NVNT	n20	5320	Ant1	6.27	24	Pass
NVNT	n40	5270	Ant1	6.49	24	Pass
NVNT	n40	5310	Ant1	6.90	24	Pass
NVNT	ac20	5260	Ant1	6.67	24	Pass
NVNT	ac20	5300	Ant1	6.71	24	Pass
NVNT	ac20	5320	Ant1	6.80	24	Pass
NVNT	ac40	5270	Ant1	6.59	24	Pass
NVNT	ac40	5310	Ant1	6.65	24	Pass
NVNT	ac80	5290	Ant1	6.75	24	Pass

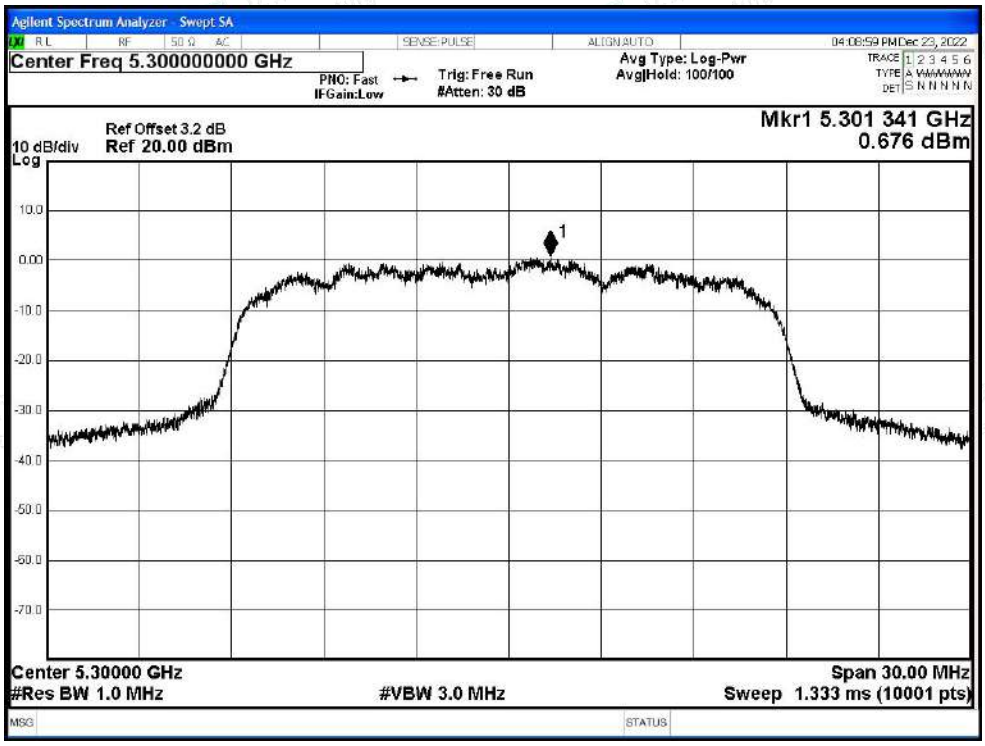
E.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	0.23	11	Pass
NVNT	a	5300	Ant1	0.79	11	Pass
NVNT	a	5320	Ant1	0.31	11	Pass
NVNT	n20	5260	Ant1	-0.58	11	Pass
NVNT	n20	5300	Ant1	0.75	11	Pass
NVNT	n20	5320	Ant1	0.49	11	Pass
NVNT	n40	5270	Ant1	-4.42	11	Pass
NVNT	n40	5310	Ant1	-3.61	11	Pass
NVNT	ac20	5260	Ant1	-0.08	11	Pass
NVNT	ac20	5300	Ant1	0.56	11	Pass
NVNT	ac20	5320	Ant1	0.25	11	Pass
NVNT	ac40	5270	Ant1	-3.58	11	Pass
NVNT	ac40	5310	Ant1	-3.53	11	Pass
NVNT	ac80	5290	Ant1	-9.48	11	Pass

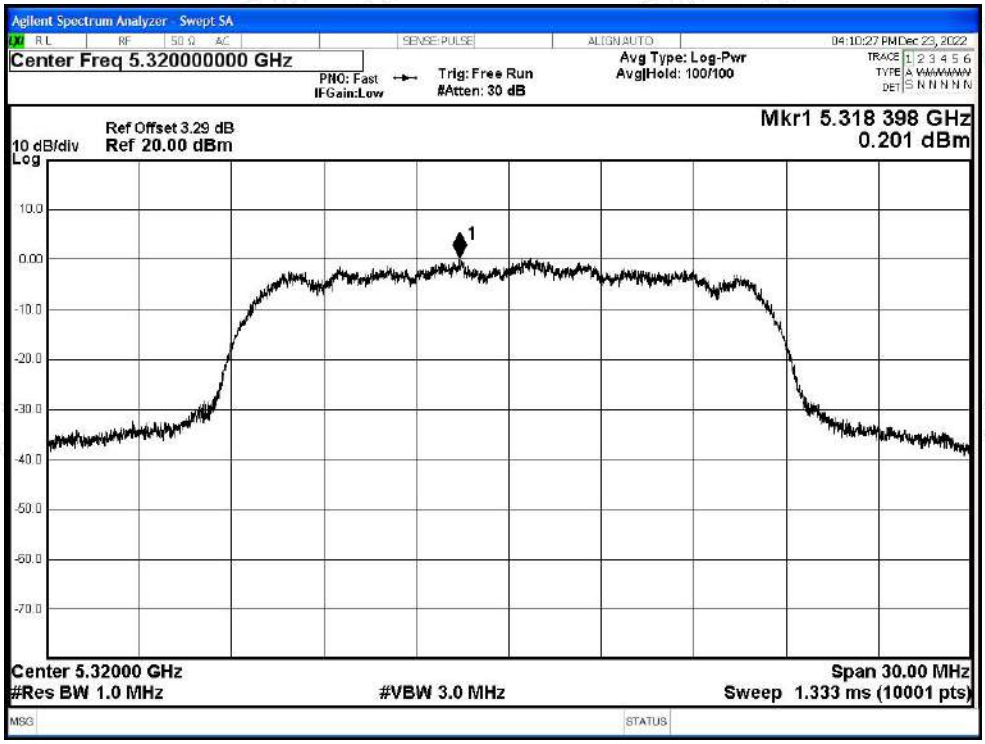
Test Graphs
PSD NVNT a 5260MHz Ant1



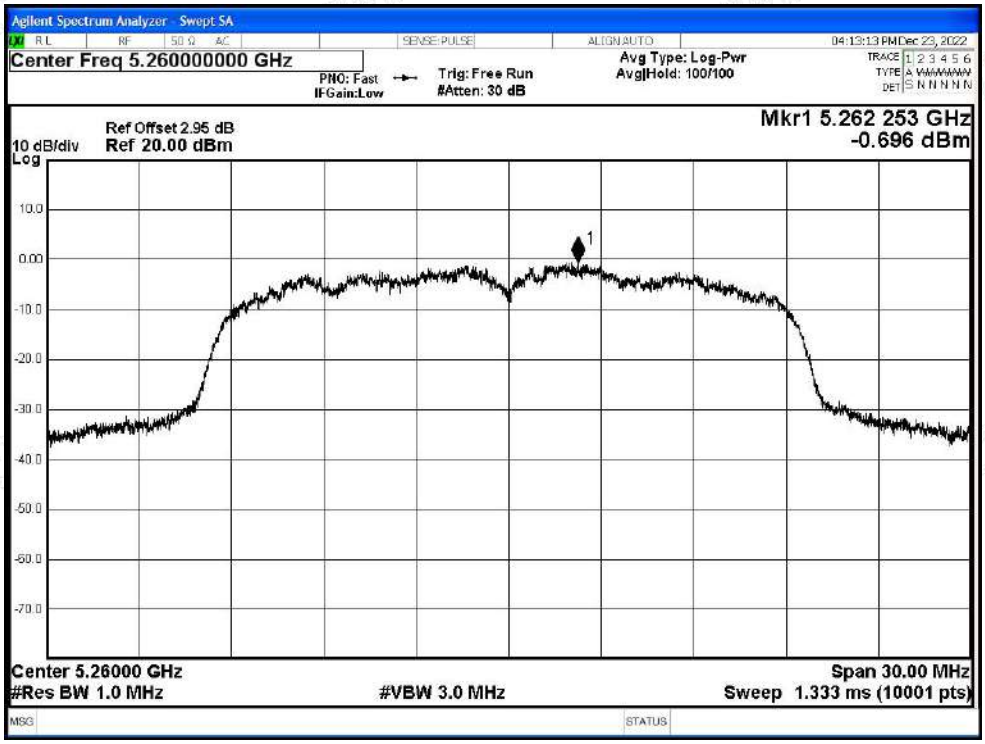
PSD NVNT a 5300MHz Ant1



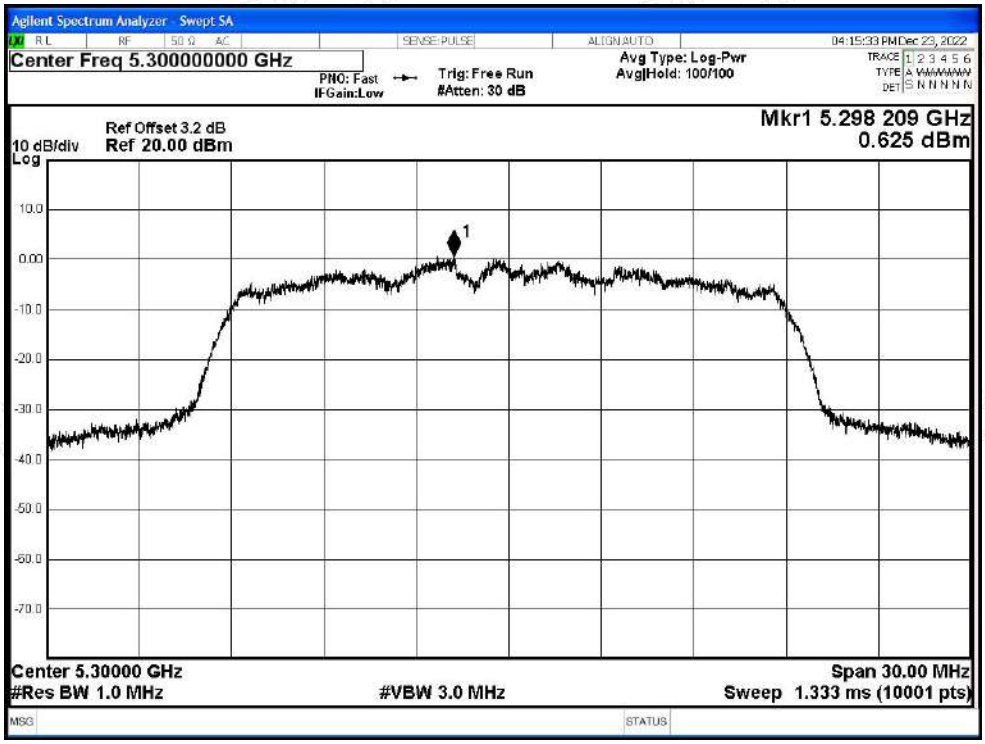
PSD NVNT a 5320MHz Ant1



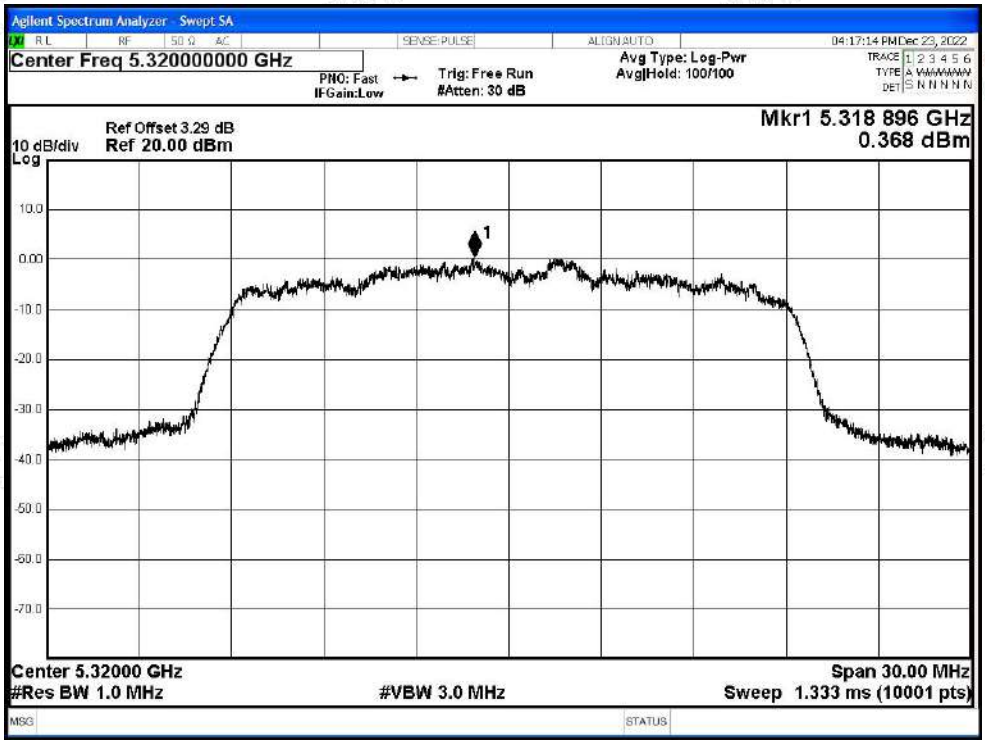
PSD NVNT n20 5260MHz Ant1



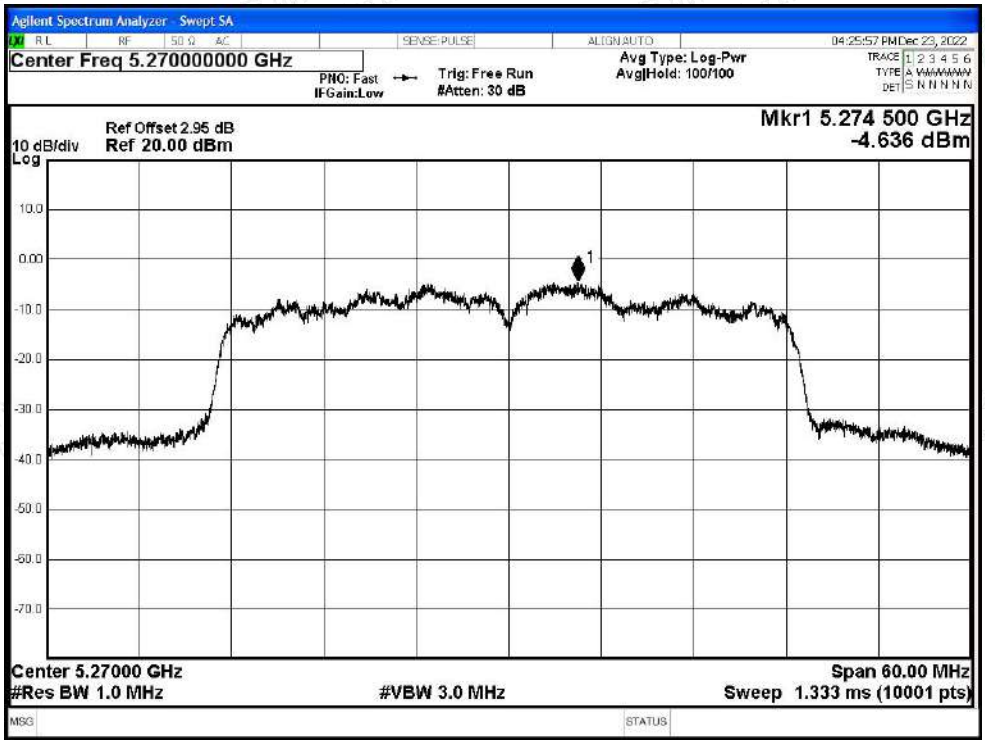
PSD NVNT n20 5300MHz Ant1



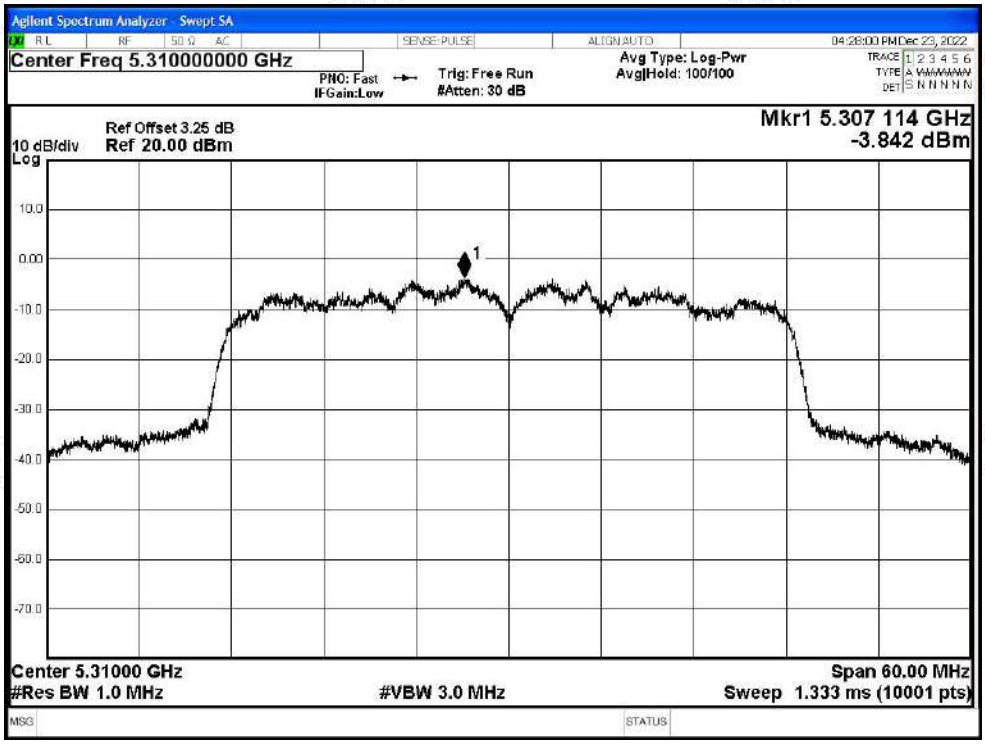
PSD NVNT n20 5320MHz Ant1



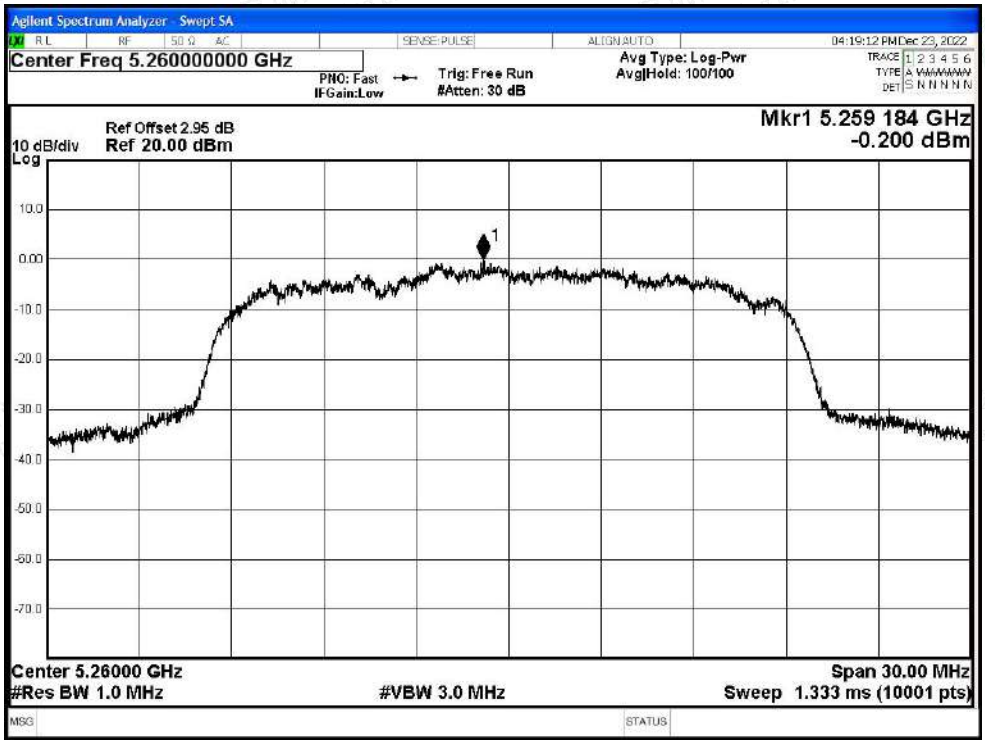
PSD NVNT n40 5270MHz Ant1



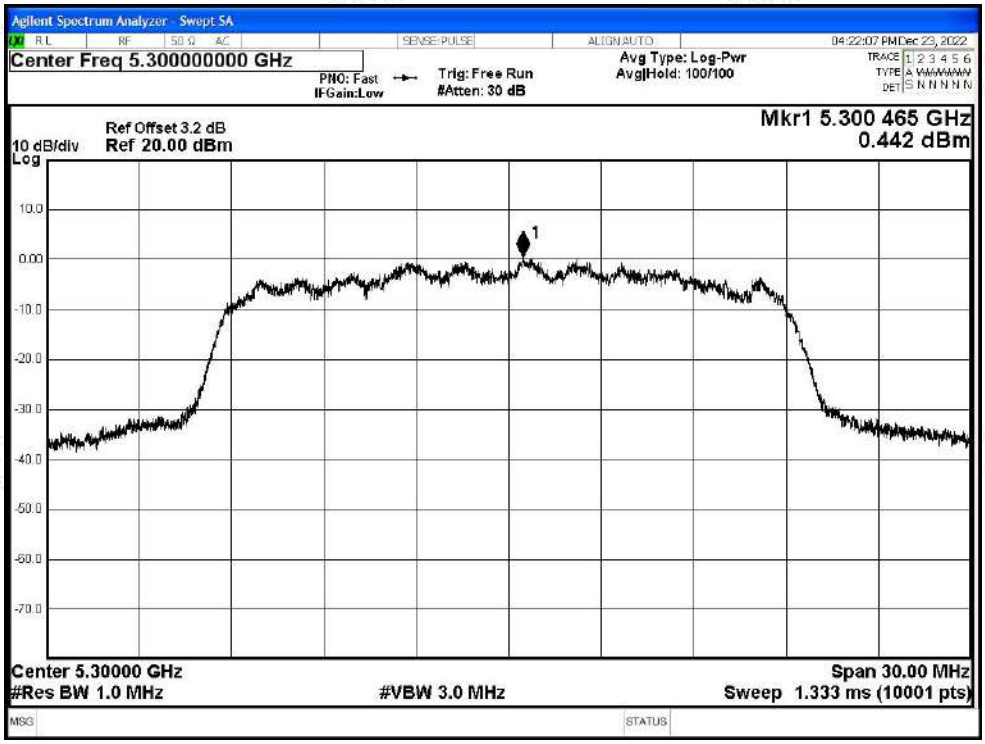
PSD NVNT n40 5310MHz Ant1



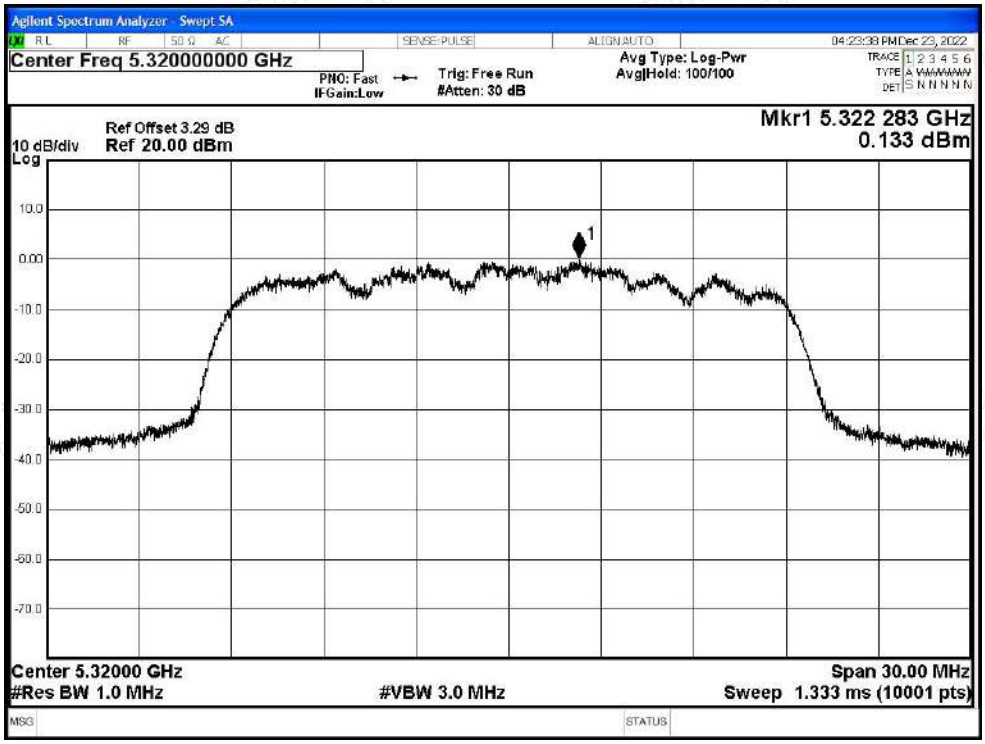
PSD NVNT ac20 5260MHz Ant1



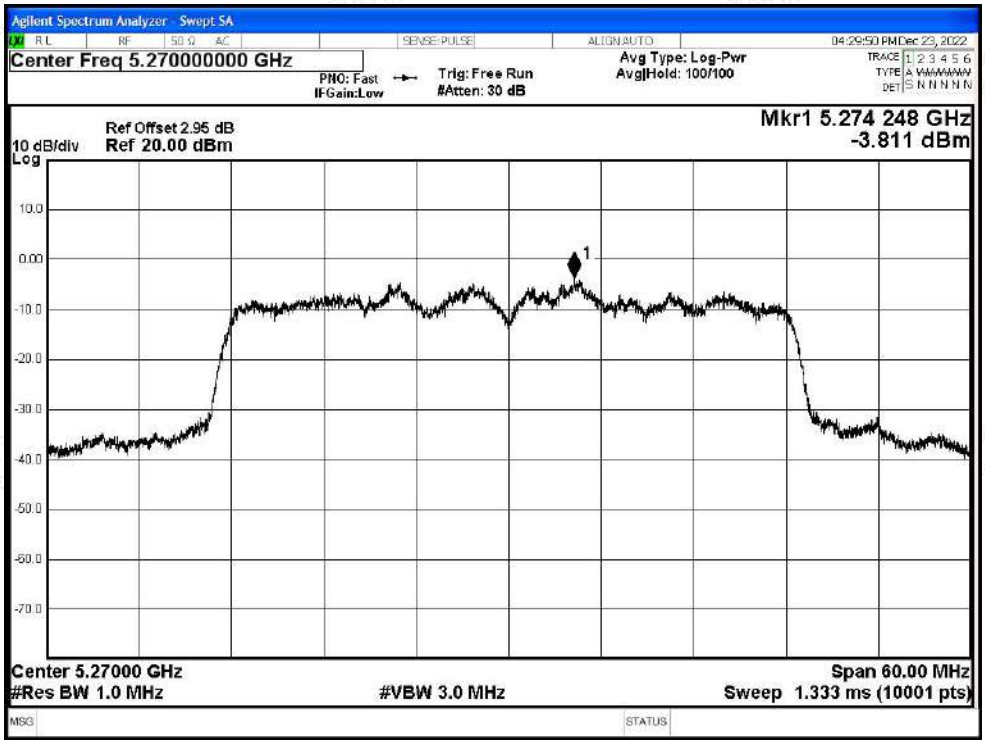
PSD NVNT ac20 5300MHz Ant1



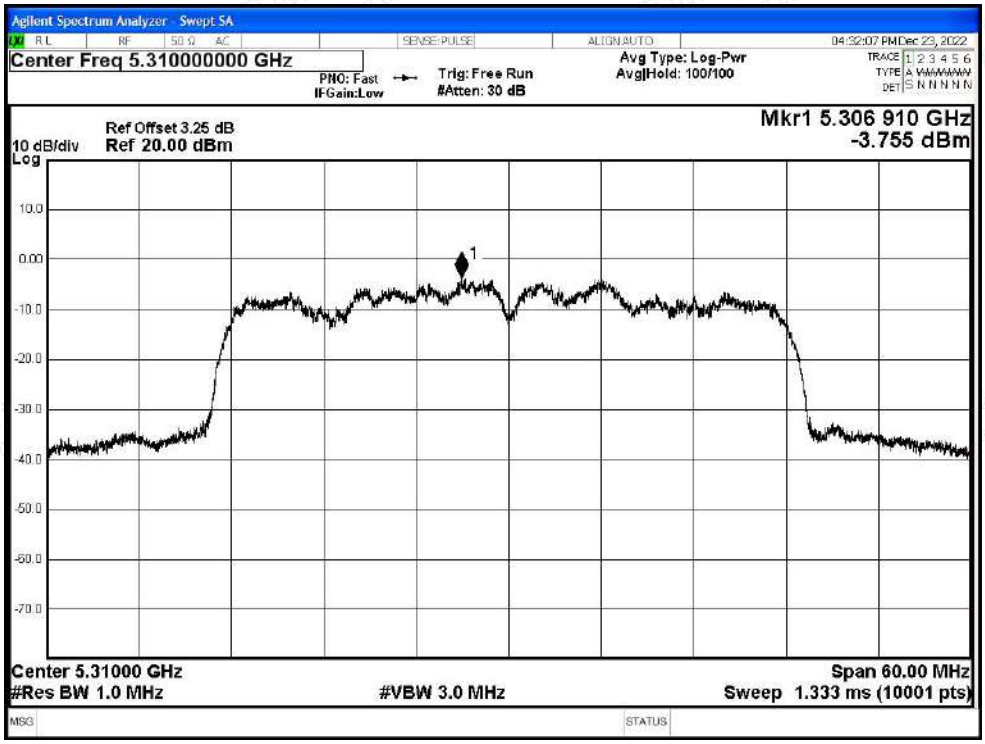
PSD NVNT ac20 5320MHz Ant1



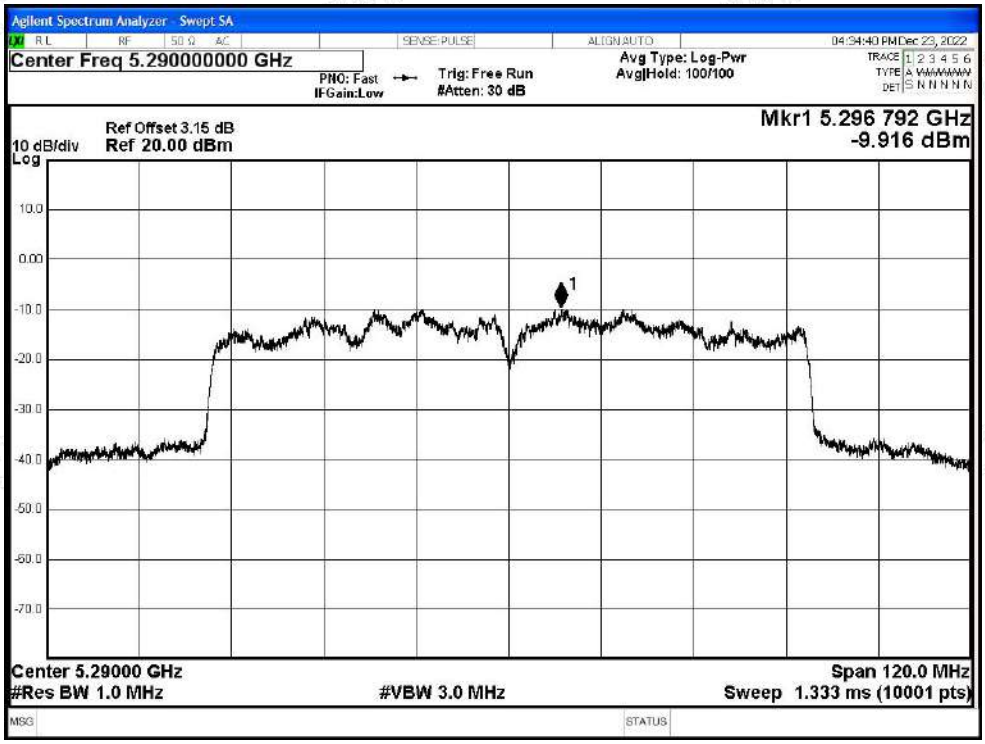
PSD NVNT ac40 5270MHz Ant1



PSD NVNT ac40 5310MHz Ant1



PSD NVNT ac80 5290MHz Ant1



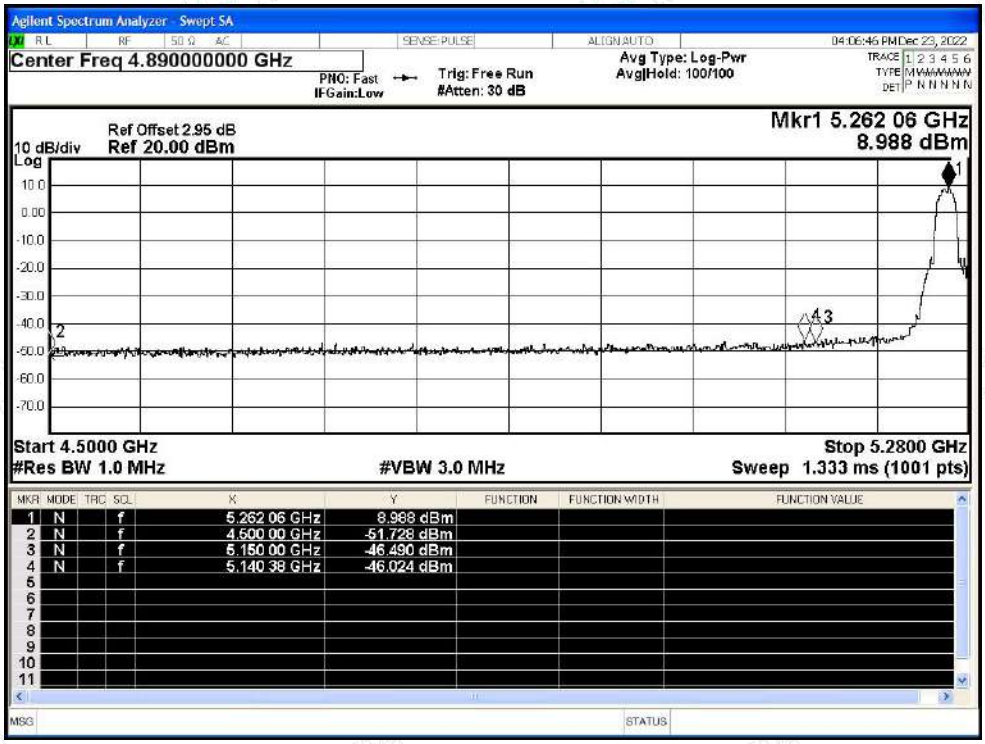
E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-51.73	2	45.5	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-60.56	2	36.67	Average	54	Pass
NVNT	a	5260	Ant1	5140.38	-46.02	2	51.21	Peak	68.2	Pass
NVNT	a	5260	Ant1	5147.4	-56.66	2	40.57	Average	54	Pass
NVNT	a	5260	Ant1	5150	-46.49	2	50.74	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-56.89	2	40.34	Average	54	Pass
NVNT	a	5320	Ant1	5350	-45.51	2	51.72	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-53.78	2	43.45	Average	54	Pass
NVNT	a	5320	Ant1	5351.8	-42.77	2	54.46	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-50.02	2	47.21	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-58.37	2	38.86	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-52.32	2	44.91	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-60.44	2	36.79	Average	54	Pass
NVNT	n20	5260	Ant1	5143.5	-45.97	2	51.26	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5140.38	-56.63	2	40.6	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-47.96	2	49.27	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-56.86	2	40.37	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-41.4	2	55.83	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-53.71	2	43.52	Average	54	Pass
NVNT	n20	5320	Ant1	5350.2	-53.67	2	43.56	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-48.85	2	48.38	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-58.27	2	38.96	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-52.02	2	45.21	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-60.27	2	36.96	Average	54	Pass
NVNT	n40	5270	Ant1	5147.19	-45.68	2	51.55	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5149.62	-56.58	2	40.65	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-48.41	2	48.82	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-56.58	2	40.65	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-31.84	2	65.39	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-43.75	2	53.48	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-48.83	2	48.4	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-58.08	2	39.15	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-50.77	2	46.46	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	4500	-60.55	2	36.68	Average	54	Pass
NVNT	ac20	5260	Ant1	5149.74	-45.99	2	51.24	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5149.74	-56.68	2	40.55	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-45.99	2	51.24	Peak	68.2	Pass

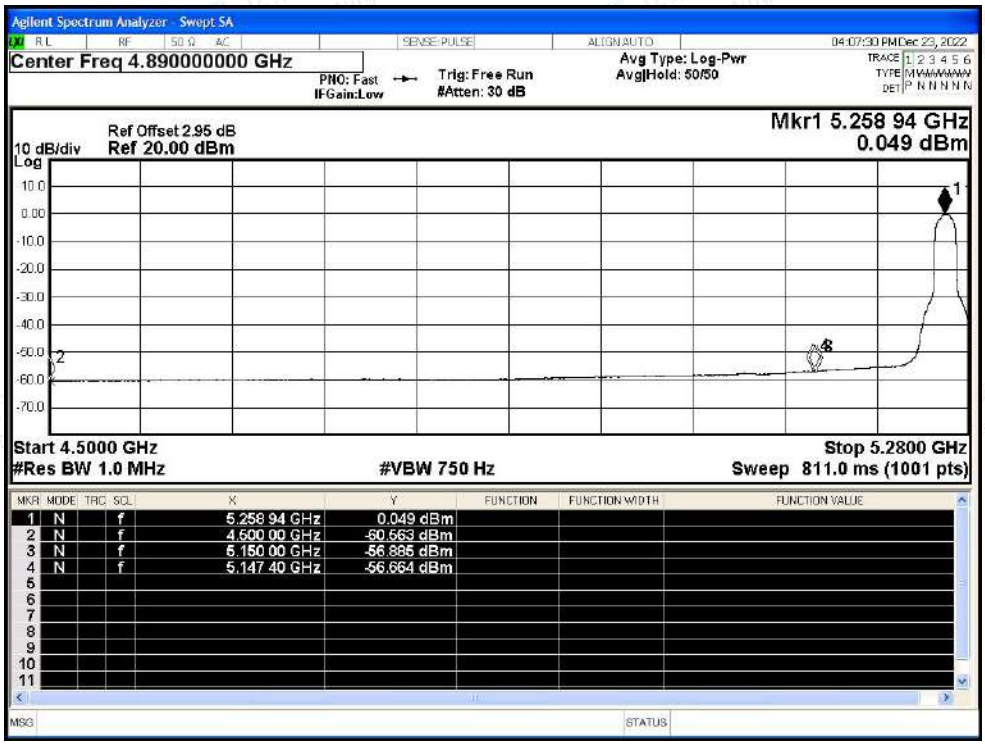
NVNT	ac20	5260	Ant1	5150	-56.68	2	40.55	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-44.49	2	52.74	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-53.88	2	43.35	Average	54	Pass
NVNT	ac20	5320	Ant1	5352.2	-43.32	2	53.91	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5351.2	-53.85	2	43.38	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-48.02	2	49.21	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-58.24	2	38.99	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-51.73	2	45.5	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-60.09	2	37.14	Average	54	Pass
NVNT	ac40	5270	Ant1	5148	-46.03	2	51.2	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5148.81	-56.37	2	40.86	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-48.33	2	48.9	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-56.61	2	40.62	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-32.57	2	64.66	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-44.17	2	53.06	Average	54	Pass
NVNT	ac40	5310	Ant1	5354.8	-31.06	2	66.17	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350.2	-44.04	2	53.19	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-47.07	2	50.16	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-57.88	2	39.35	Average	54	Pass
NVNT	ac80	5290	Ant1	4500	-49.2	2	48.03	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	4500	-59.78	2	37.45	Average	54	Pass
NVNT	ac80	5290	Ant1	5135.97	-40.42	2	56.81	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5142.06	-55.76	2	41.47	Average	54	Pass
NVNT	ac80	5290	Ant1	5150	-47.92	2	49.31	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5150	-55.85	2	41.38	Average	54	Pass
NVNT	ac80	5290	Ant1	5350	-44.89	2	52.34	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-52	2	45.23	Average	54	Pass
NVNT	ac80	5290	Ant1	5350.7	-31.26	2	65.97	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350.7	-51.58	2	45.65	Average	54	Pass
NVNT	ac80	5290	Ant1	5460	-48.95	2	48.28	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-58.39	2	38.84	Average	54	Pass

Test Graphs

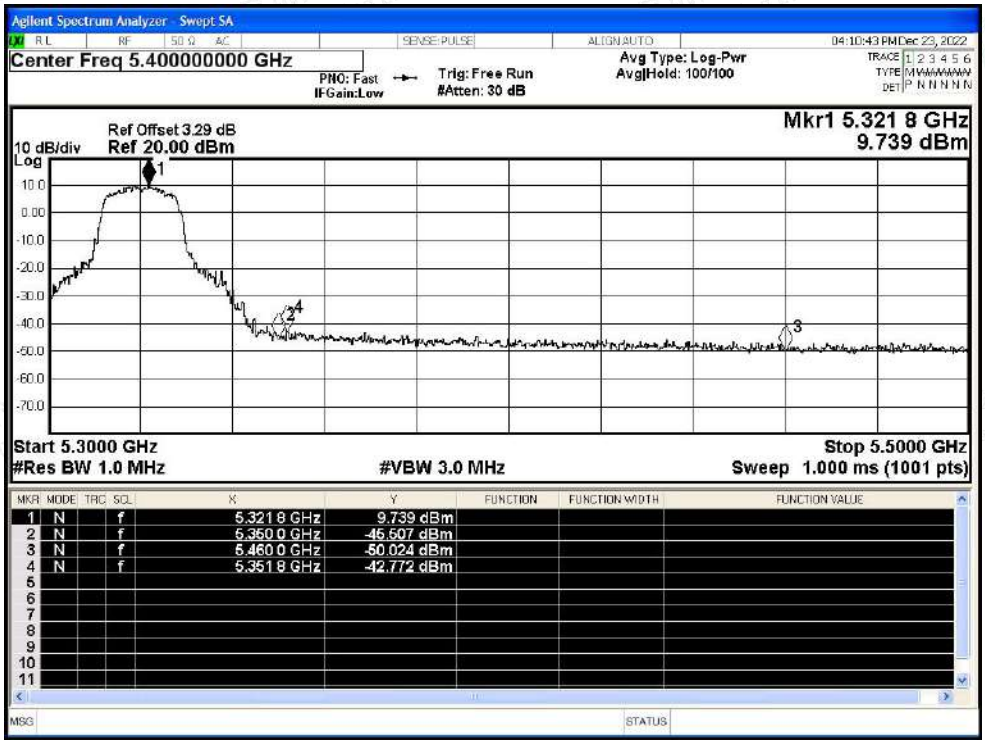
Restrict Band NVNT a 5260MHz Ant1 Peak



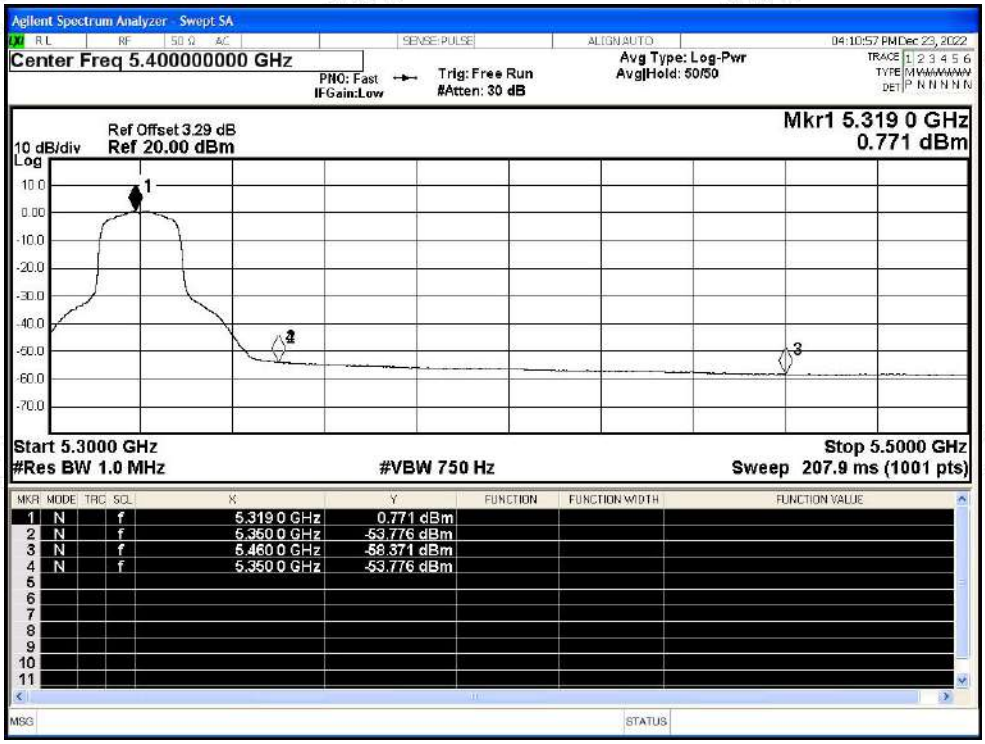
Restrict Band NVNT a 5260MHz Ant1 Average



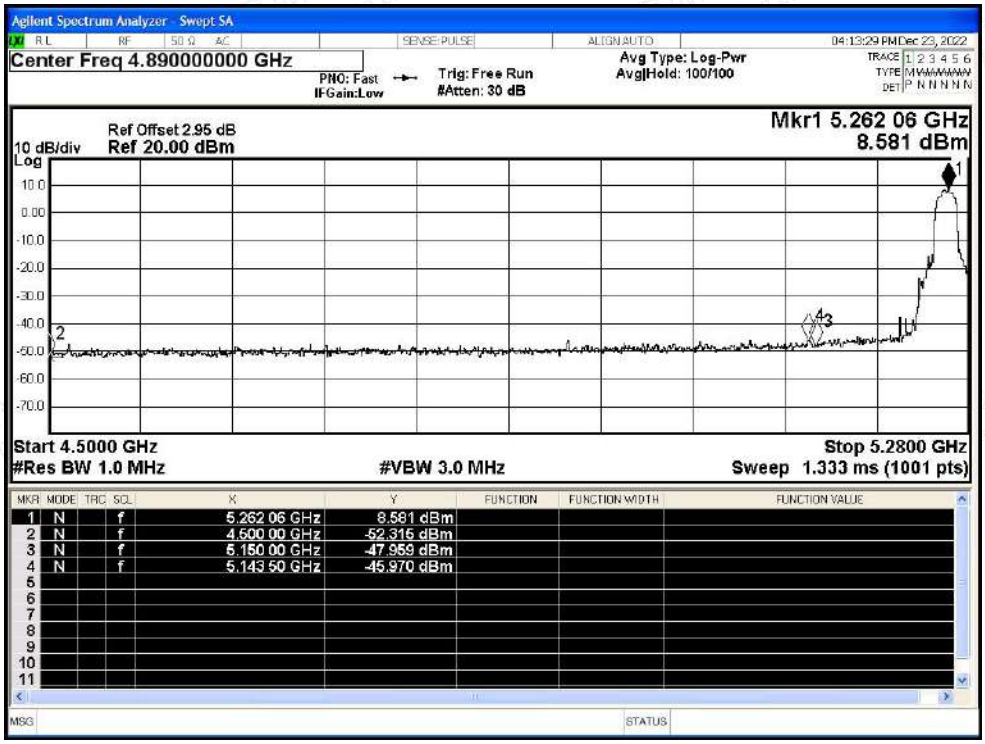
Restrict Band NVNT a 5320MHz Ant1 Peak



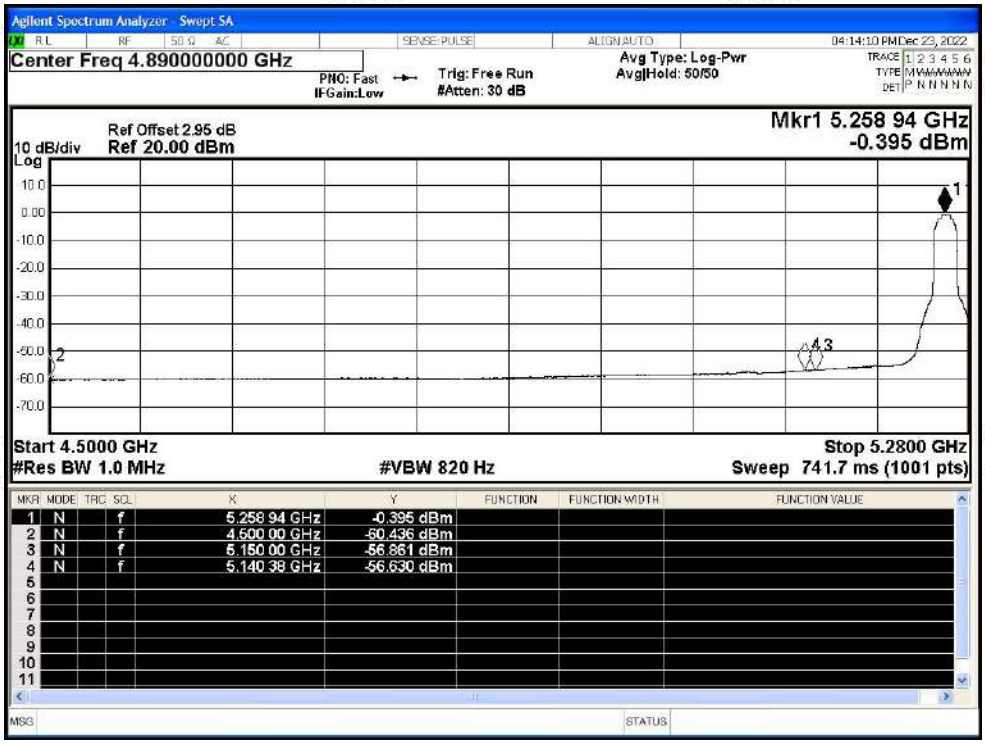
Restrict Band NVNT a 5320MHz Ant1 Average



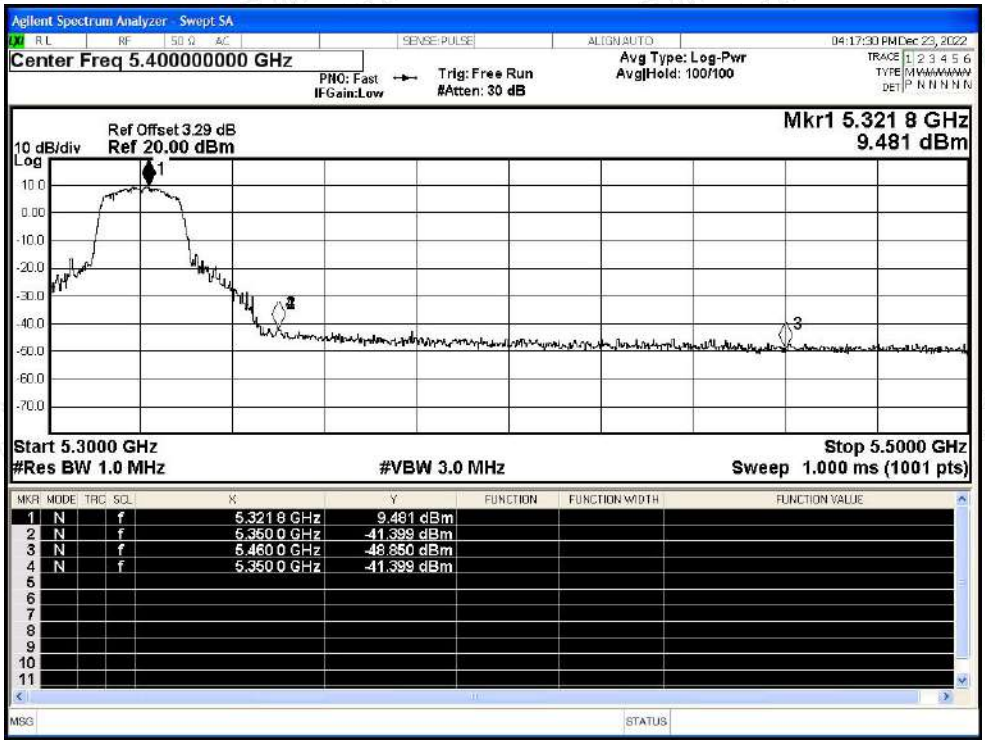
Restrict Band NVNT n20 5260MHz Ant1 Peak



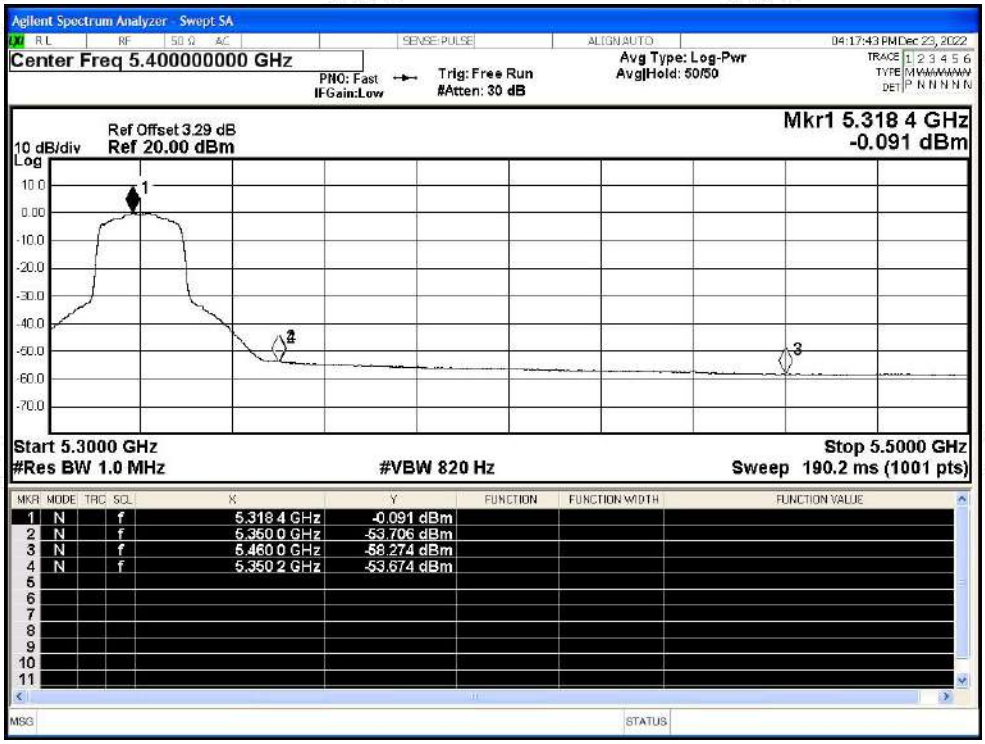
Restrict Band NVNT n20 5260MHz Ant1 Average



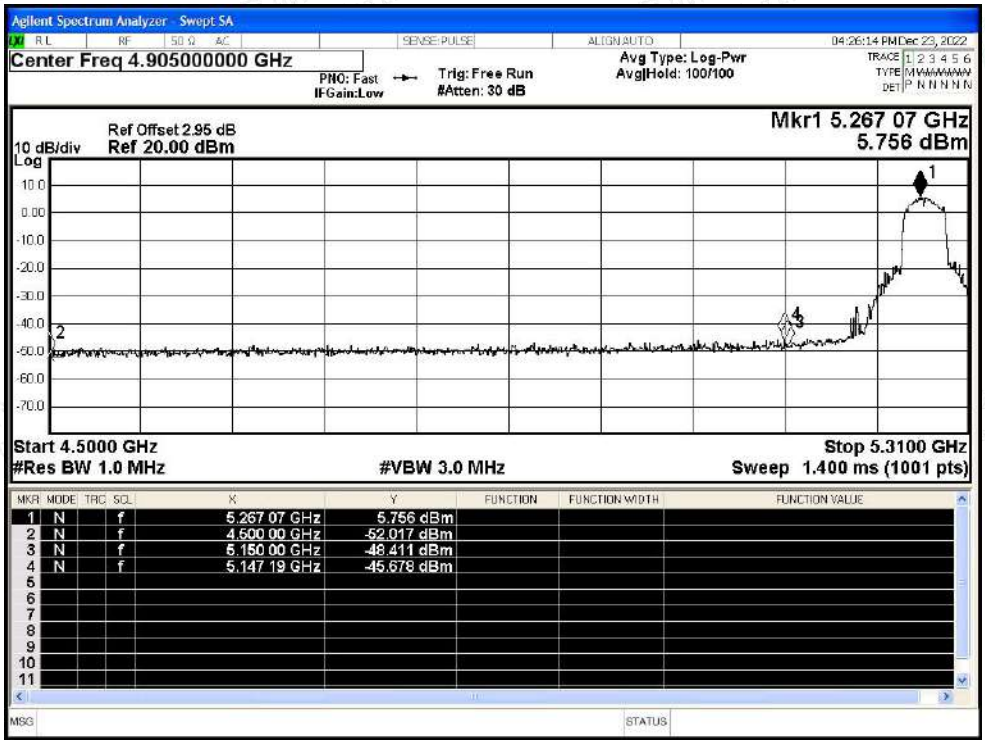
Restrict Band NVNT n20 5320MHz Ant1 Peak



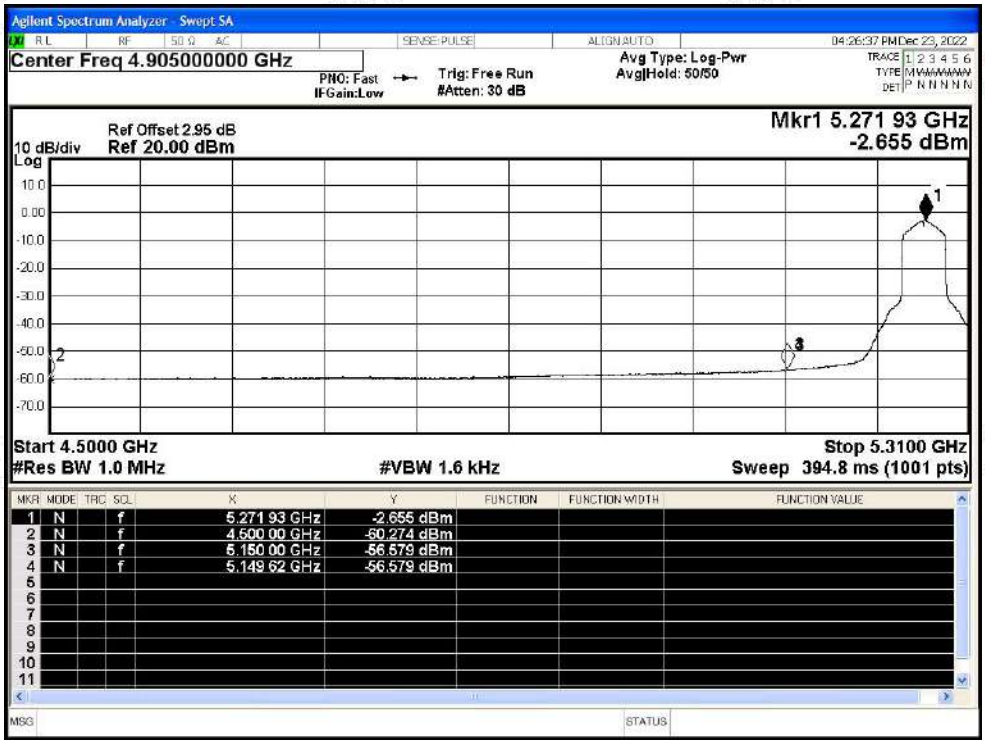
Restrict Band NVNT n20 5320MHz Ant1 Average



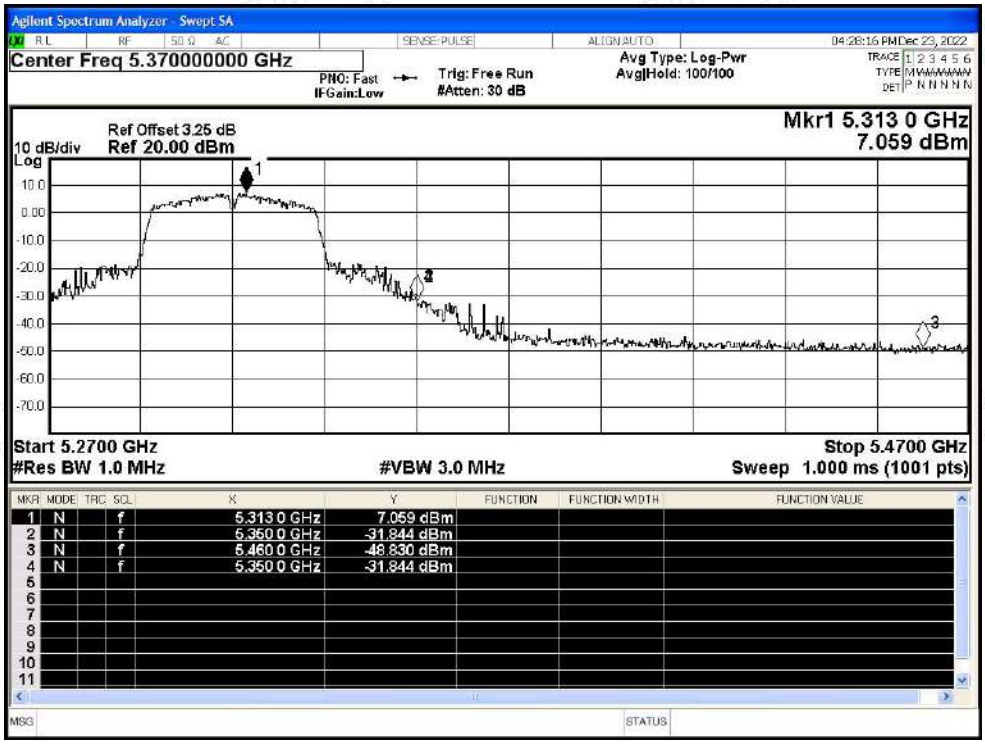
Restrict Band NVNT n40 5270MHz Ant1 Peak



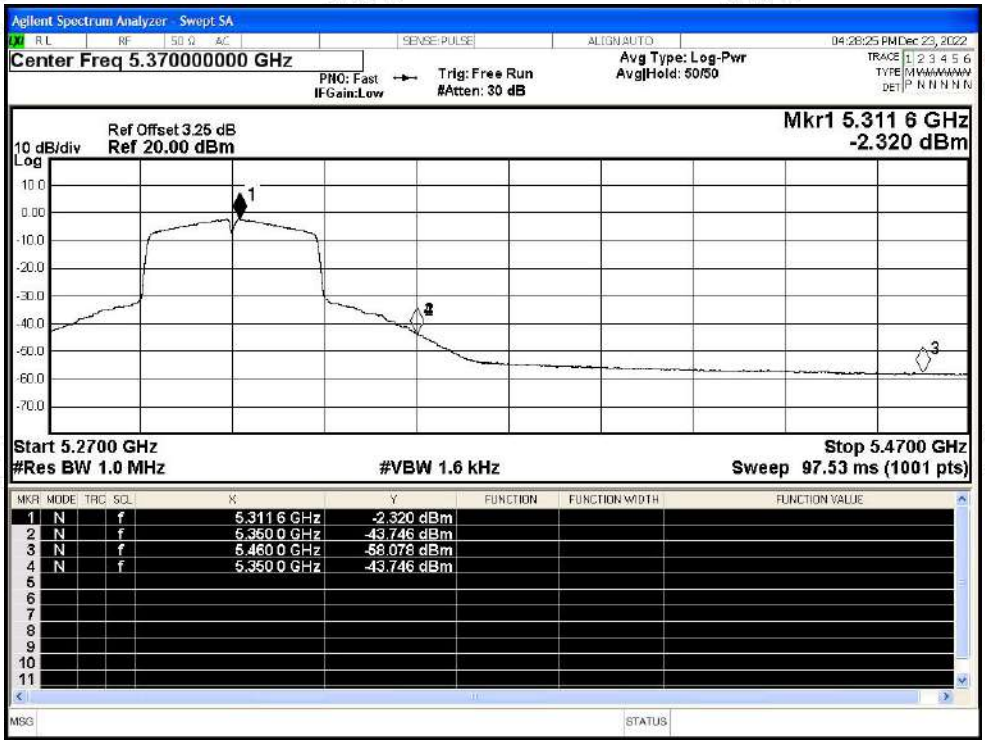
Restrict Band NVNT n40 5270MHz Ant1 Average



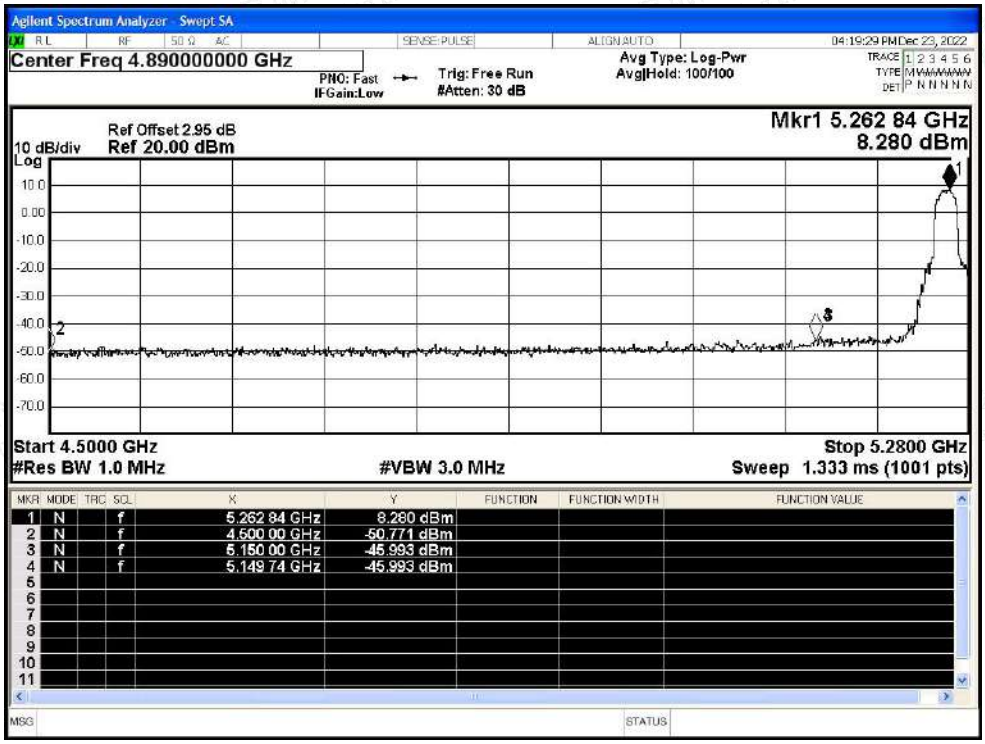
Restrict Band NVNT n40 5310MHz Ant1 Peak



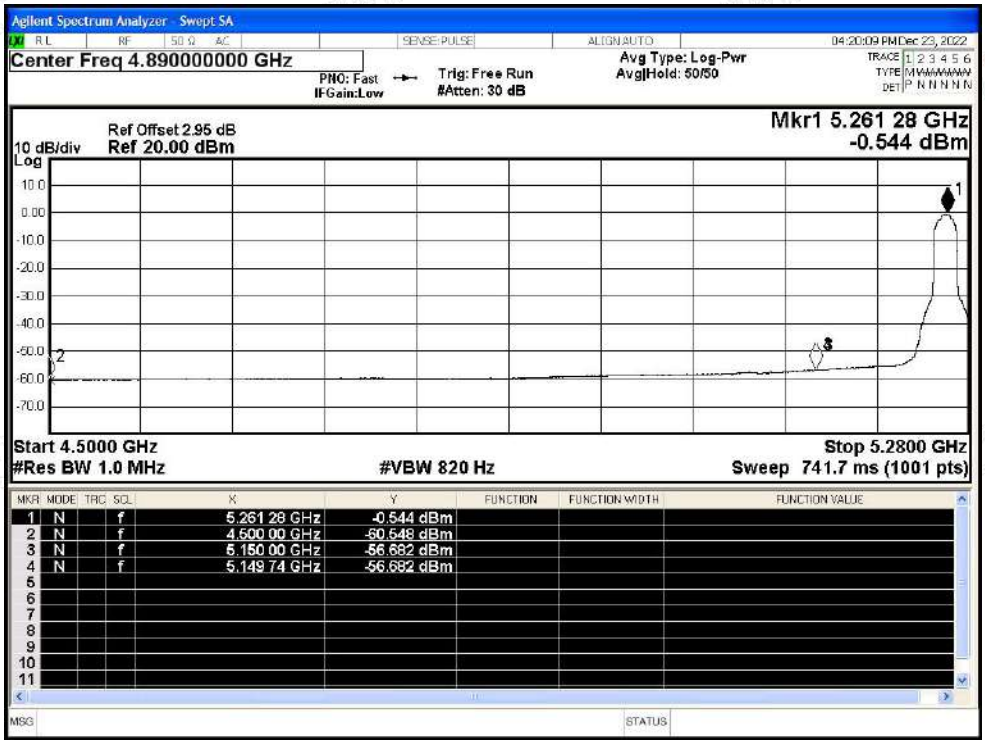
Restrict Band NVNT n40 5310MHz Ant1 Average



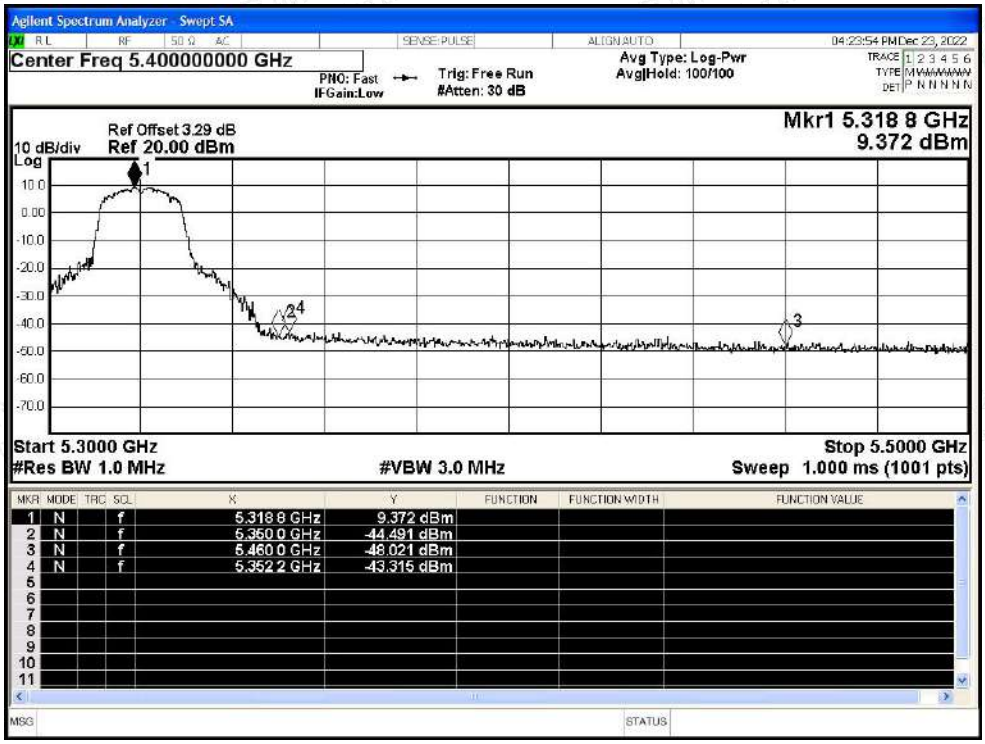
Restrict Band NVNT ac20 5260MHz Ant1 Peak



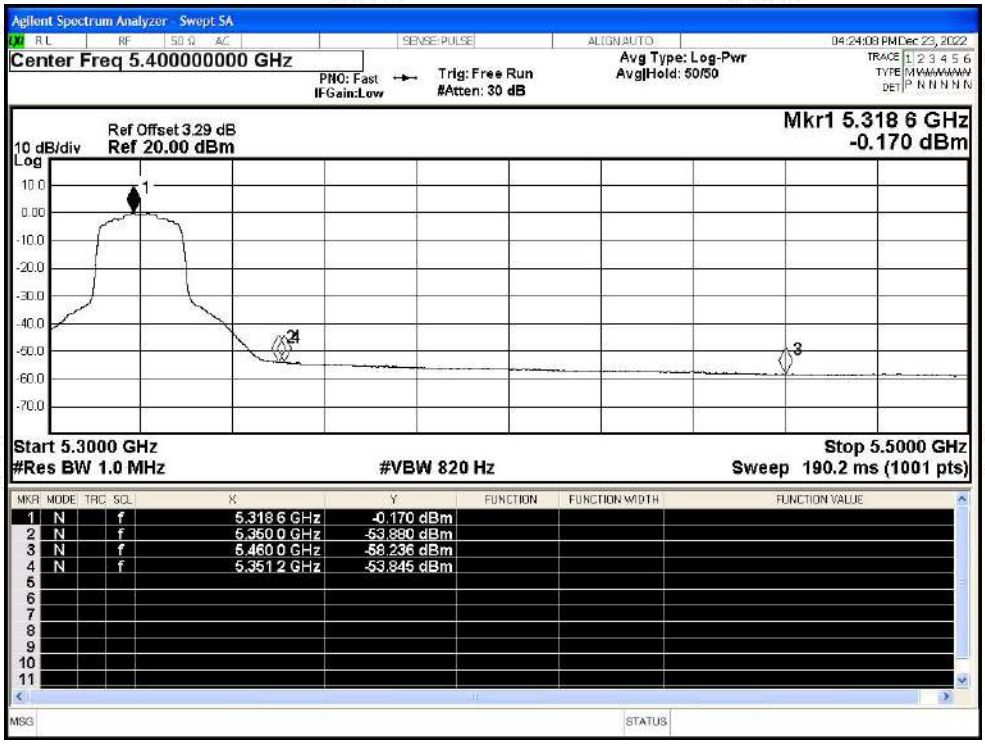
Restrict Band NVNT ac20 5260MHz Ant1 Average



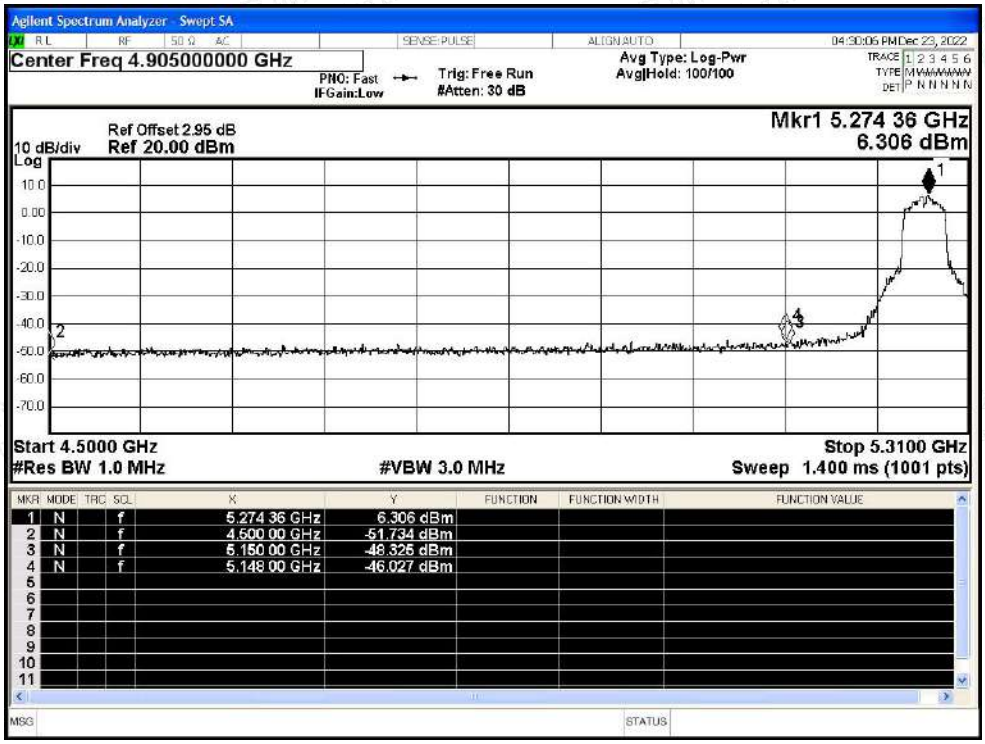
Restrict Band NVNT ac20 5320MHz Ant1 Peak



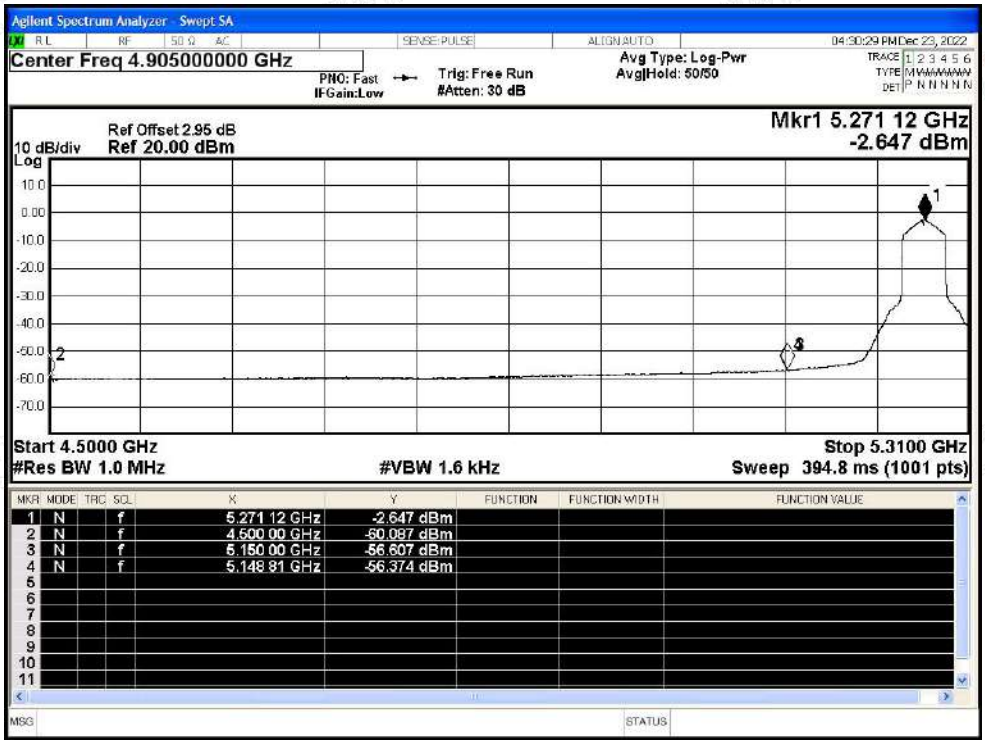
Restrict Band NVNT ac20 5320MHz Ant1 Average



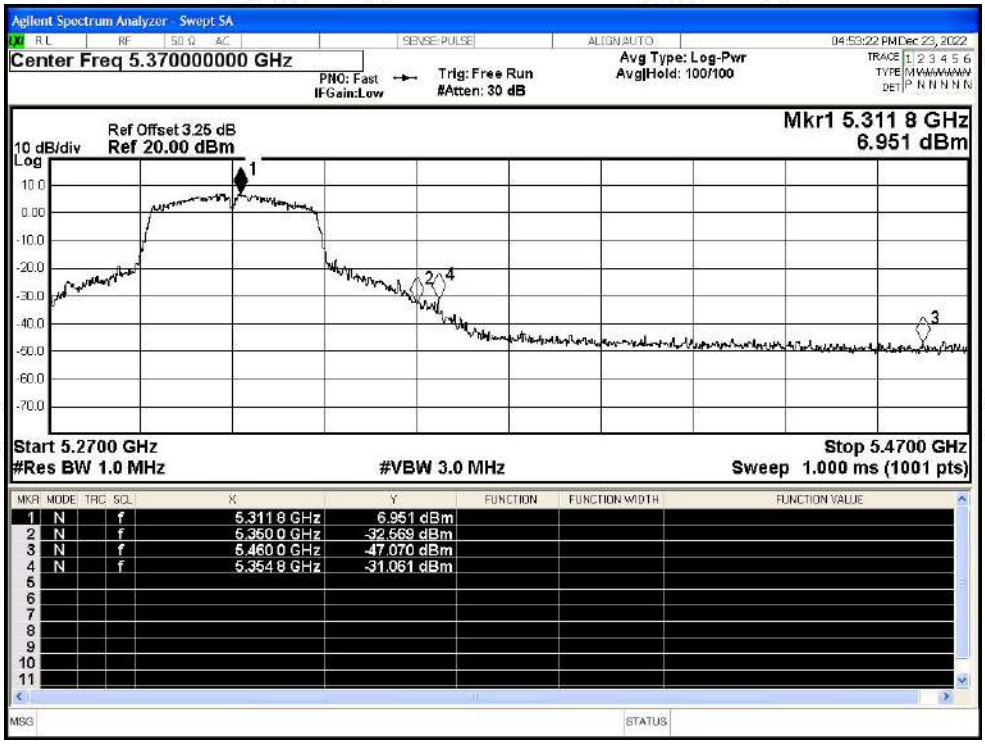
Restrict Band NVNT ac40 5270MHz Ant1 Peak



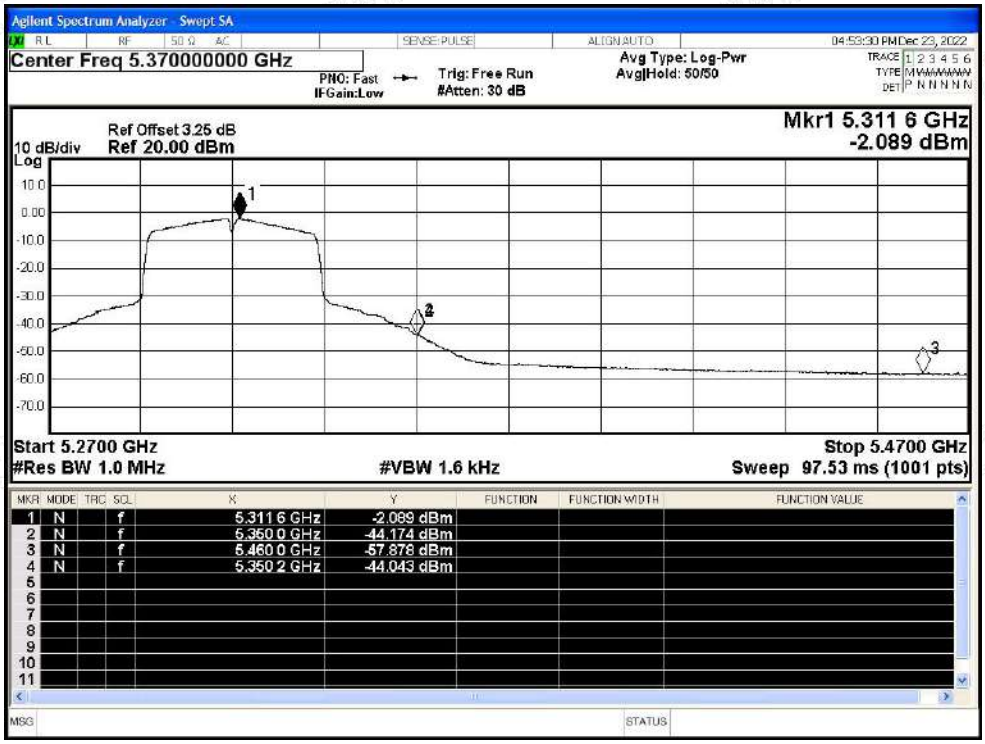
Restrict Band NVNT ac40 5270MHz Ant1 Average



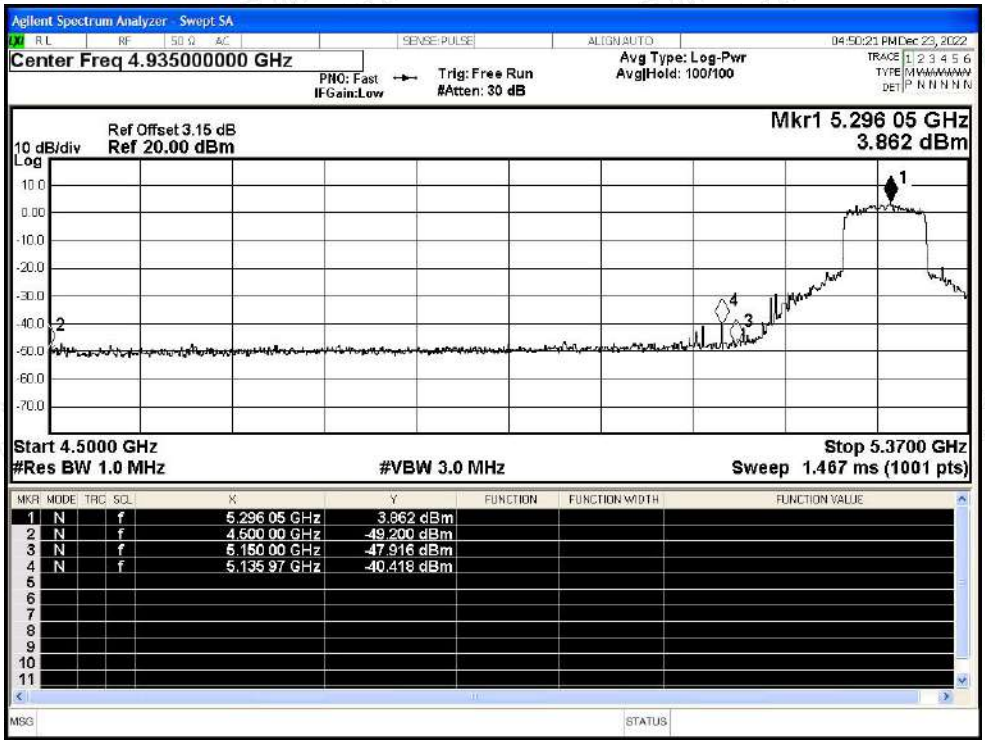
Restrict Band NVNT ac40 5310MHz Ant1 Peak



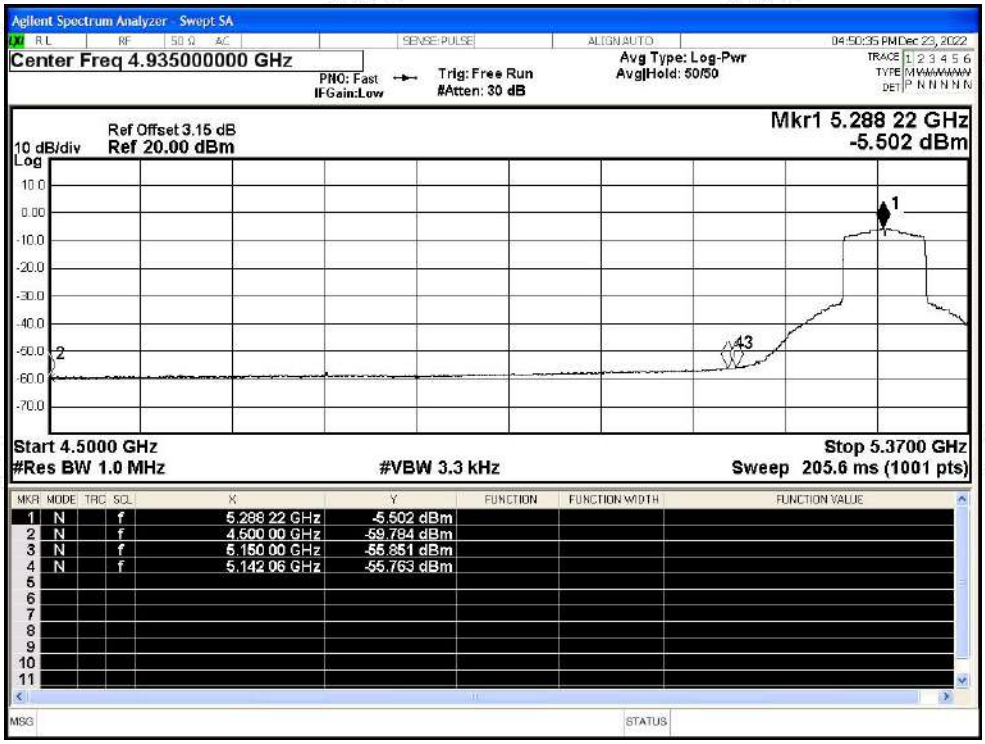
Restrict Band NVNT ac40 5310MHz Ant1 Average



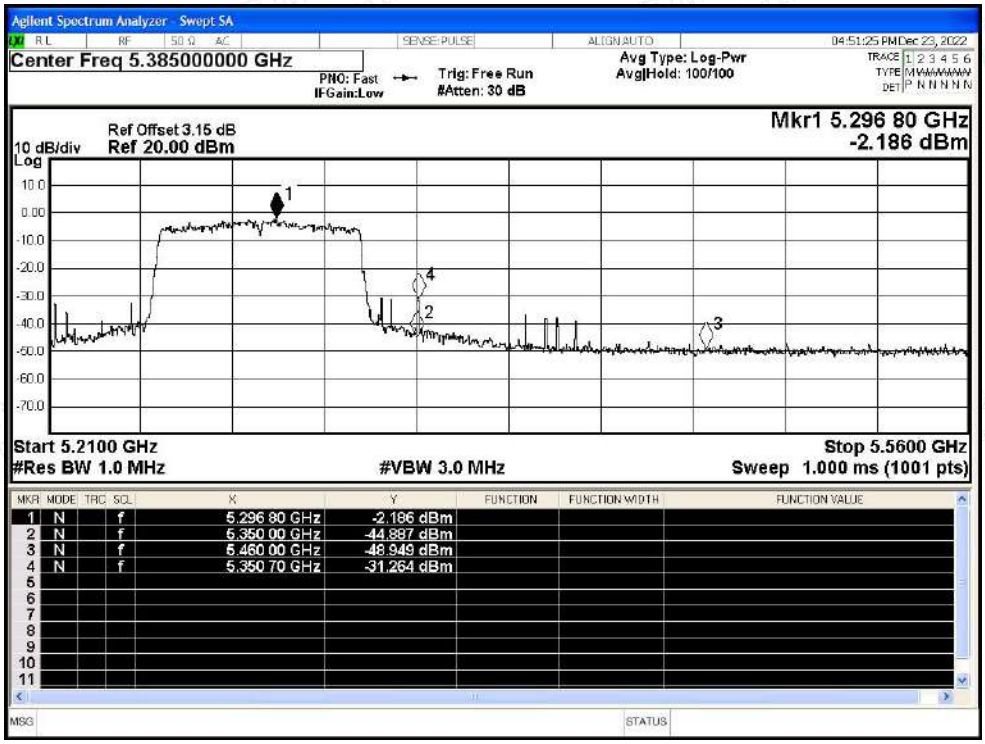
Restrict Band NVNT ac80 5290MHz Ant1 Peak



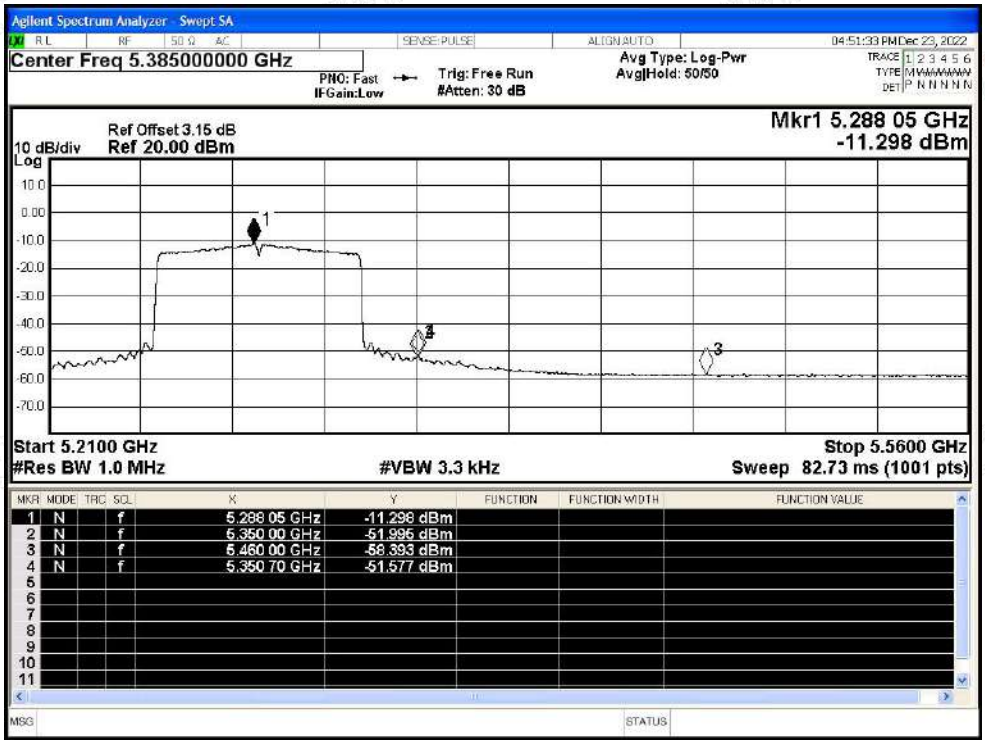
Restrict Band NVNT ac80 5290MHz Ant1 Average



Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average

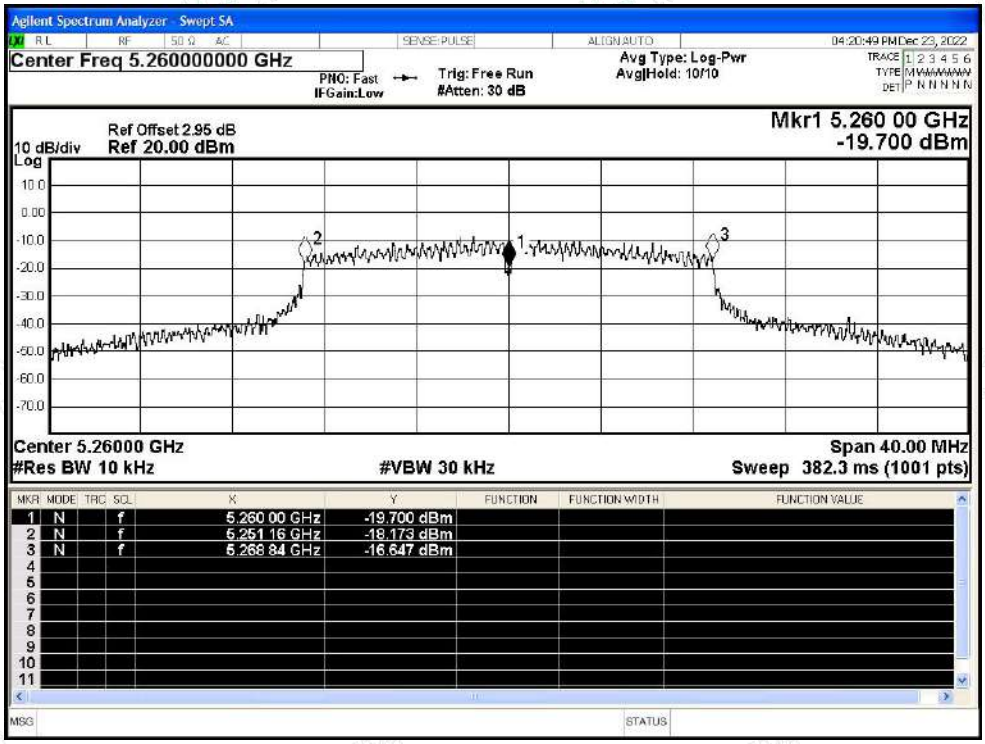


E.5 Frequency Stability

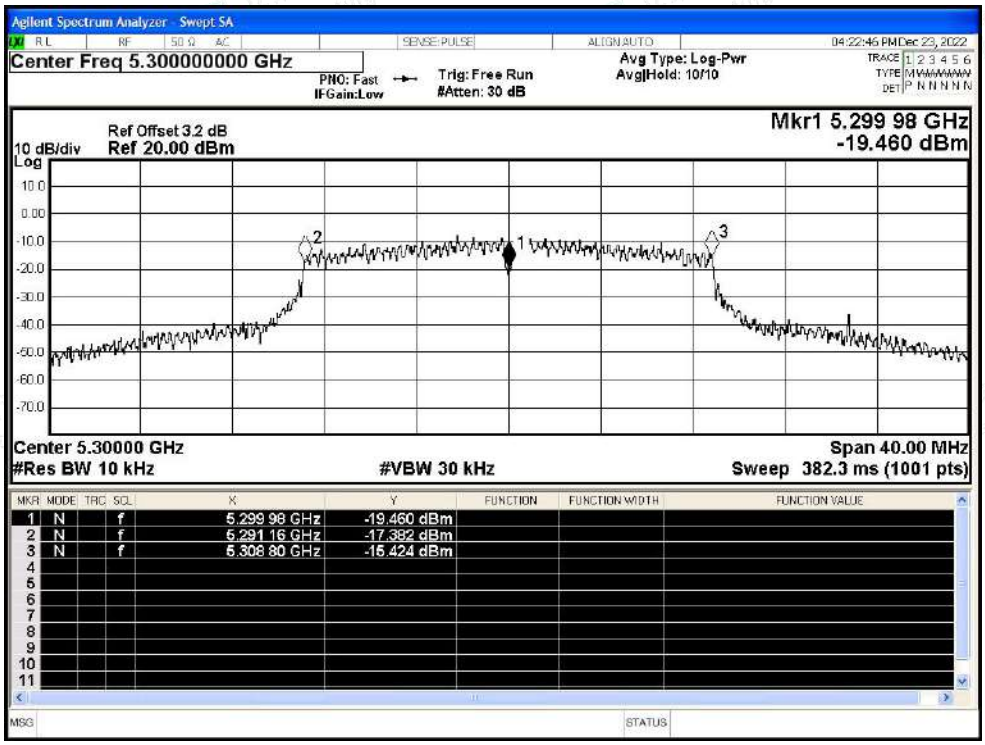
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5260	0	0	25	Pass
NVNT	ac20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	ac20	5320	Ant1	5320	0	0	25	Pass
NVNT	ac40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac80	5290	Ant1	5290	0	0	25	Pass

Test Graphs

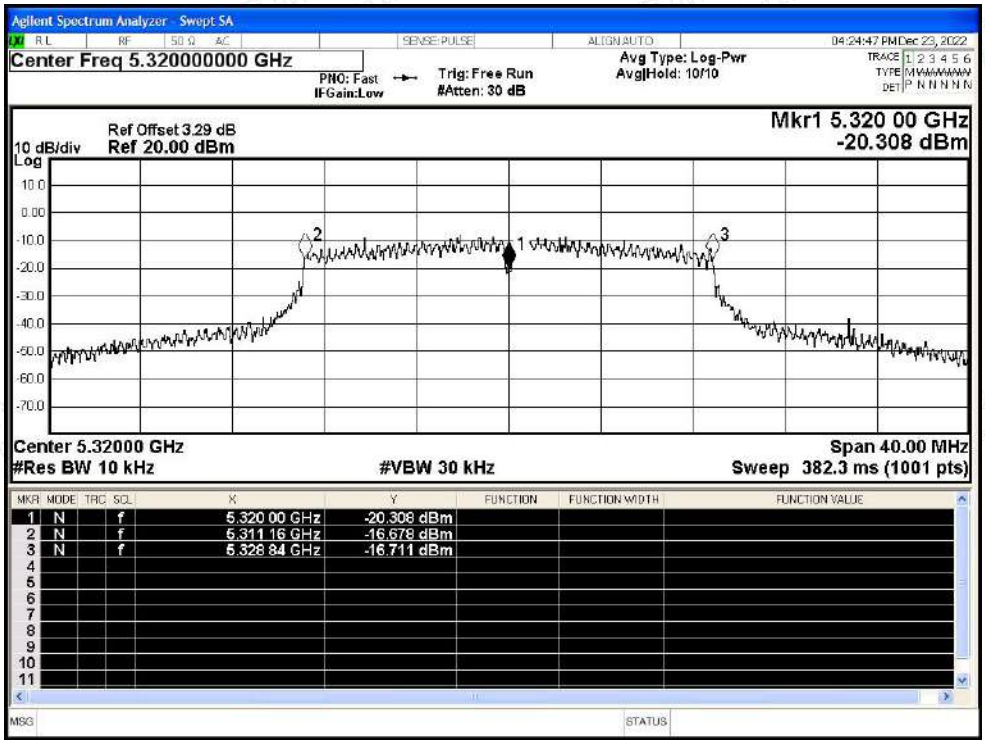
Freq. Stability NVNT ac20 5260MHz Ant1



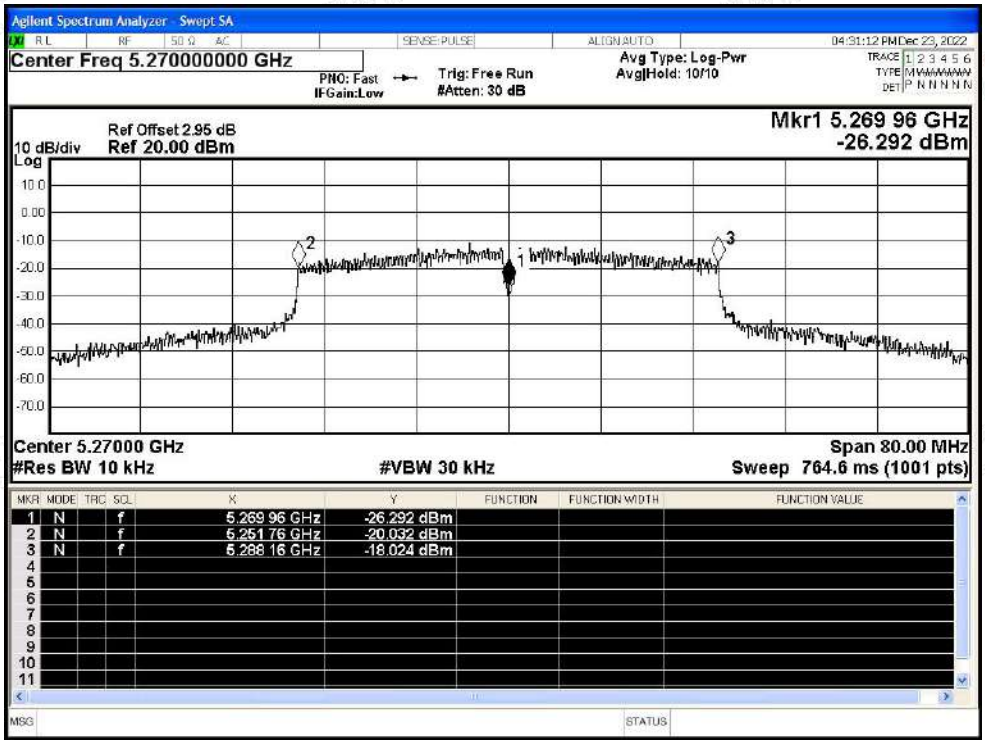
Freq. Stability NVNT ac20 5300MHz Ant1



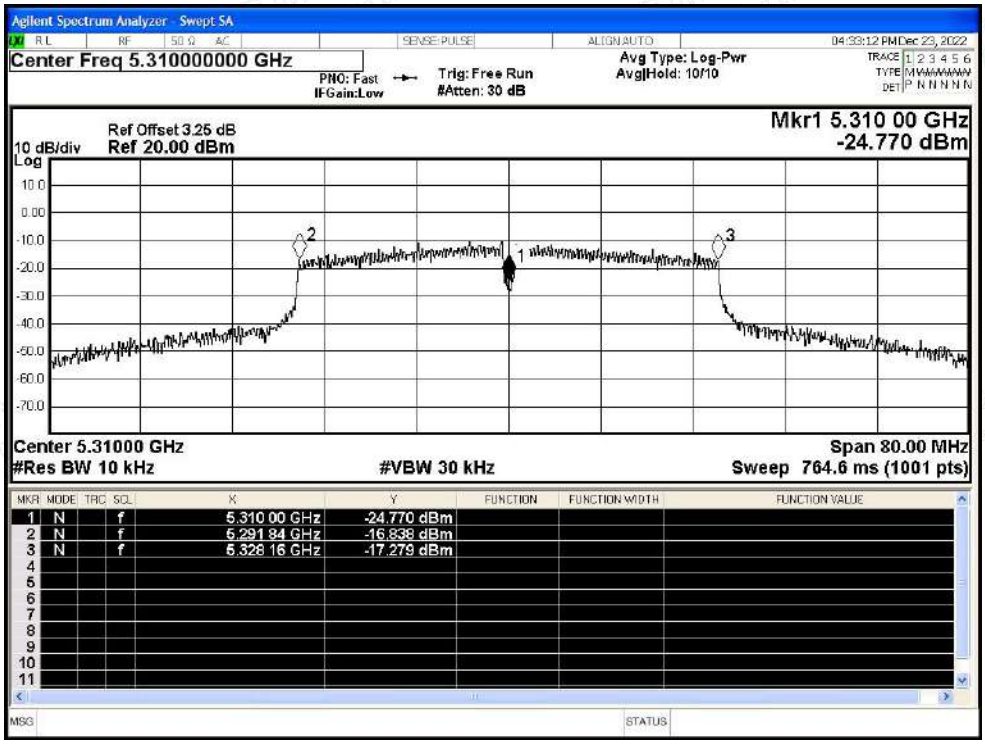
Freq. Stability NVNT ac20 5320MHz Ant1



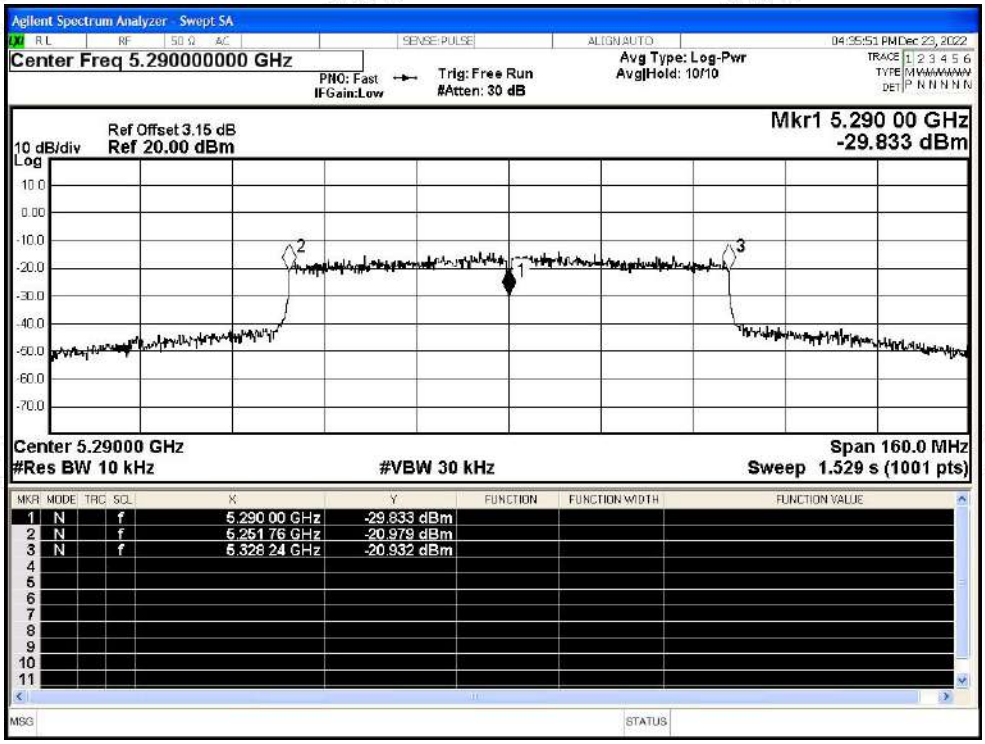
Freq. Stability NVNT ac40 5270MHz Ant1



Freq. Stability NVNT ac40 5310MHz Ant1



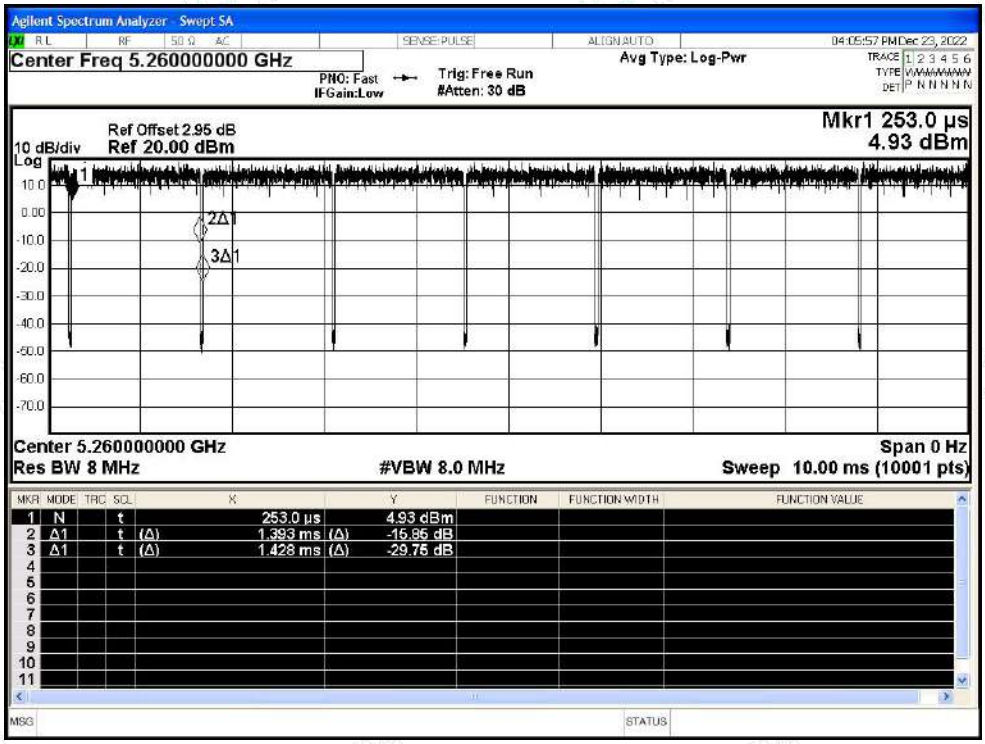
Freq. Stability NVNT ac80 5290MHz Ant1



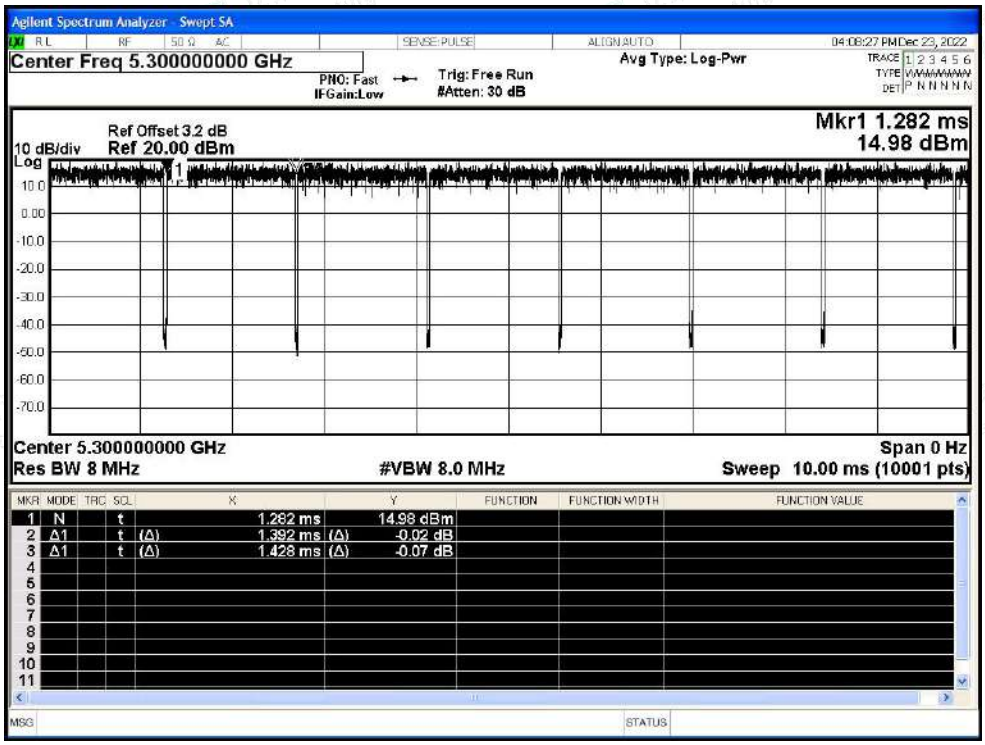
E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.55	0.11	0.72
NVNT	a	5300	Ant1	97.48	0.11	0.72
NVNT	a	5320	Ant1	97.55	0.11	0.72
NVNT	n20	5260	Ant1	97.31	0.12	0.77
NVNT	n20	5300	Ant1	97.38	0.12	0.77
NVNT	n20	5320	Ant1	97.31	0.12	0.77
NVNT	n40	5270	Ant1	95.02	0.22	1.54
NVNT	n40	5310	Ant1	94.88	0.23	1.54
NVNT	ac20	5260	Ant1	97.33	0.12	0.76
NVNT	ac20	5300	Ant1	97.33	0.12	0.76
NVNT	ac20	5320	Ant1	97.33	0.12	0.76
NVNT	ac40	5270	Ant1	94.91	0.23	1.53
NVNT	ac40	5310	Ant1	94.77	0.23	1.53
NVNT	ac80	5290	Ant1	90.28	0.44	3.08

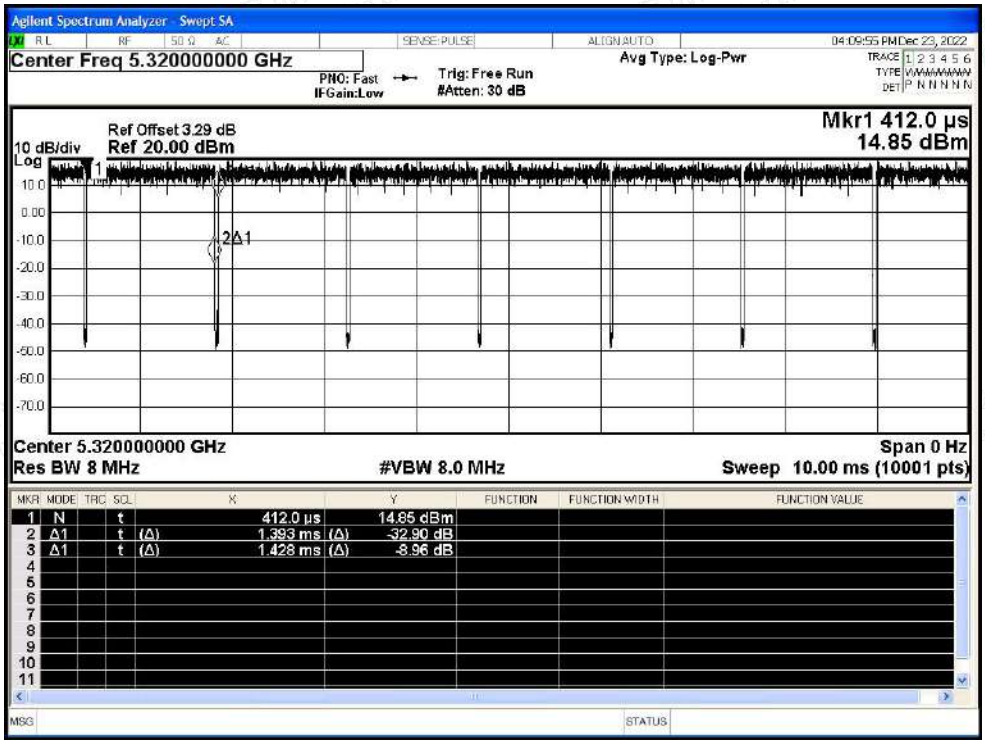
Test Graphs
Duty Cycle NVNT a 5260MHz Ant1



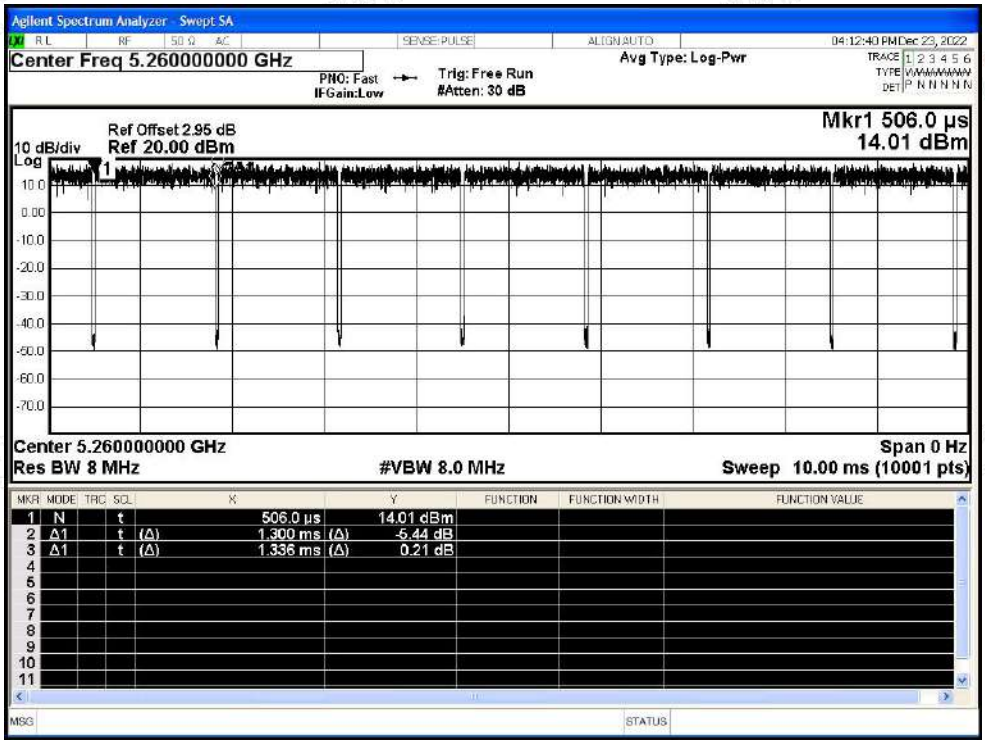
Duty Cycle NVNT a 5300MHz Ant1



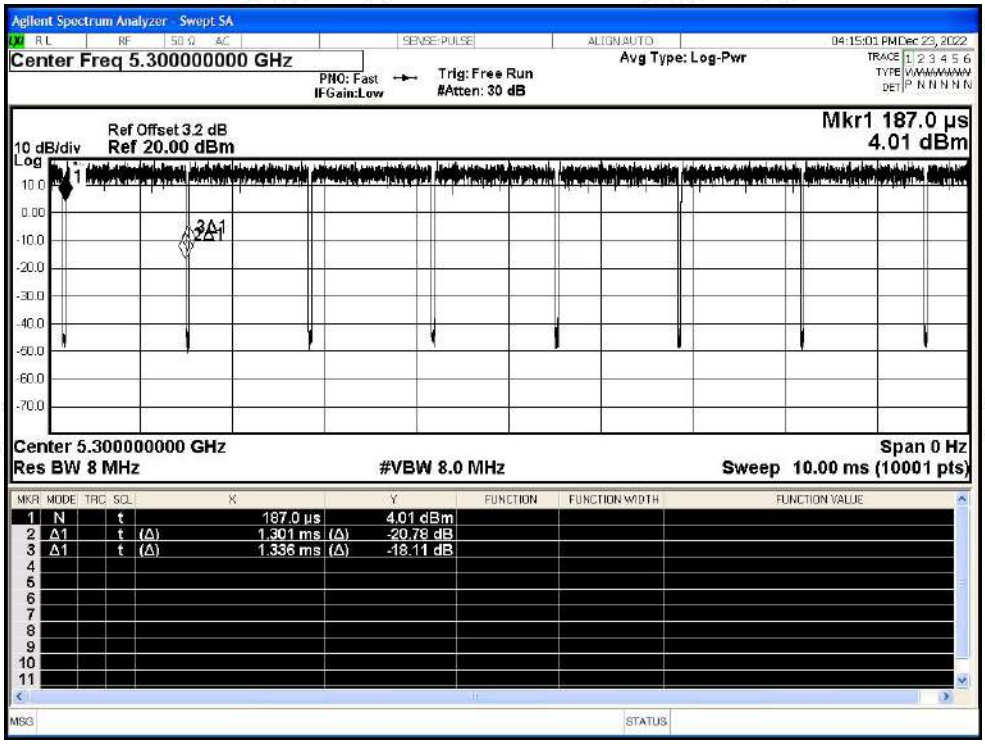
Duty Cycle NVNT a 5320MHz Ant1



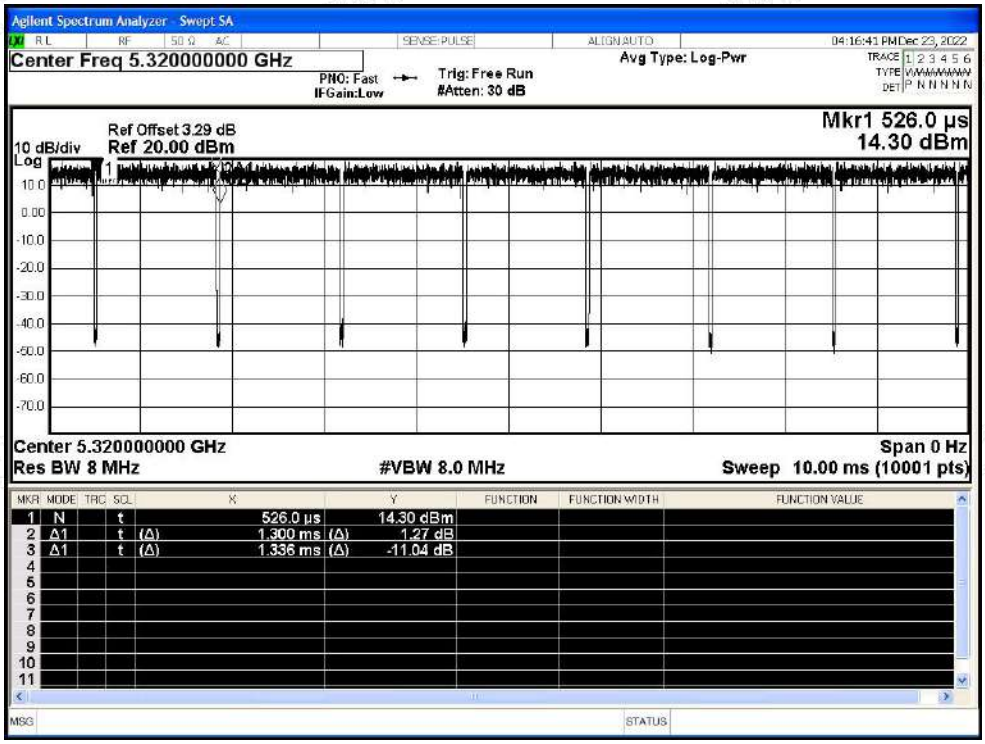
Duty Cycle NVNT n20 5260MHz Ant1



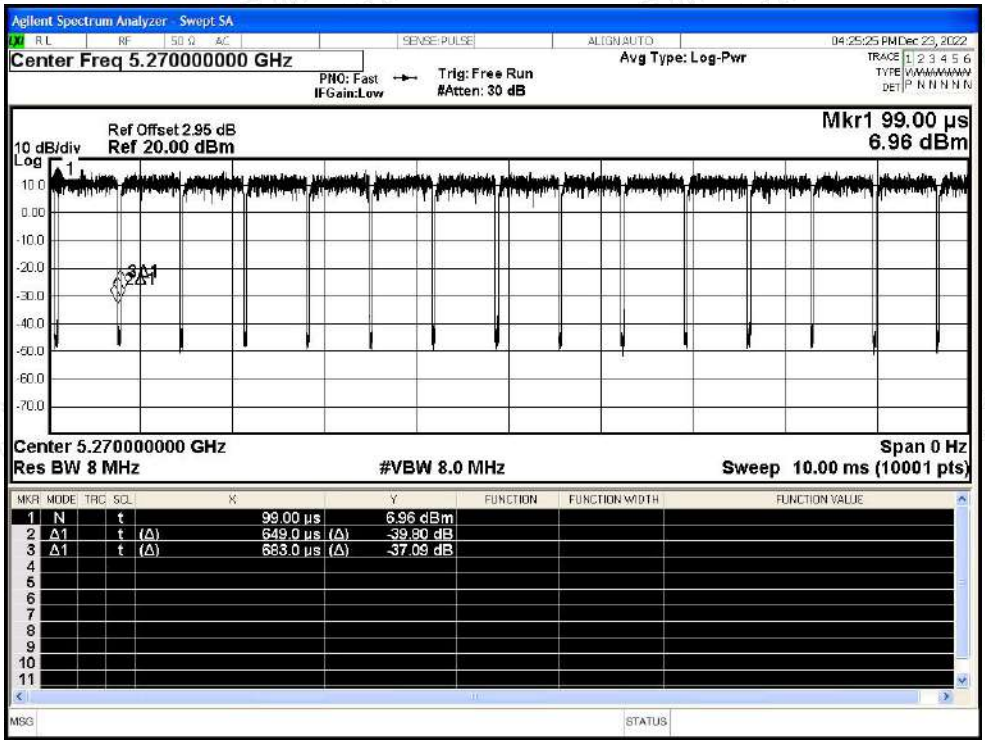
Duty Cycle NVNT n20 5300MHz Ant1



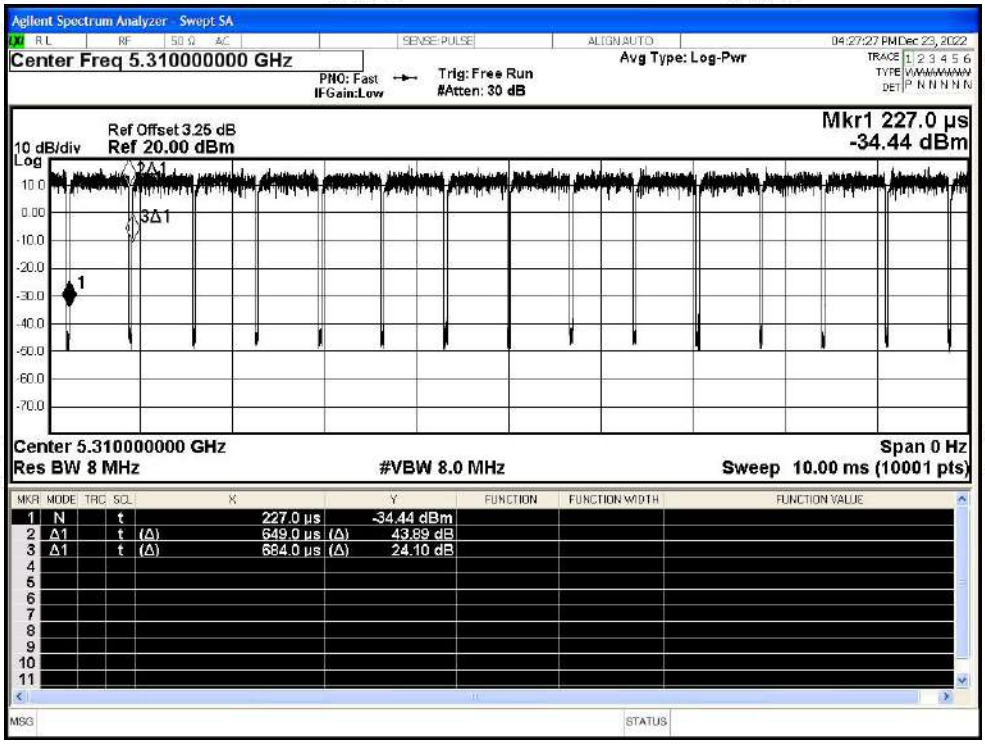
Duty Cycle NVNT n20 5320MHz Ant1



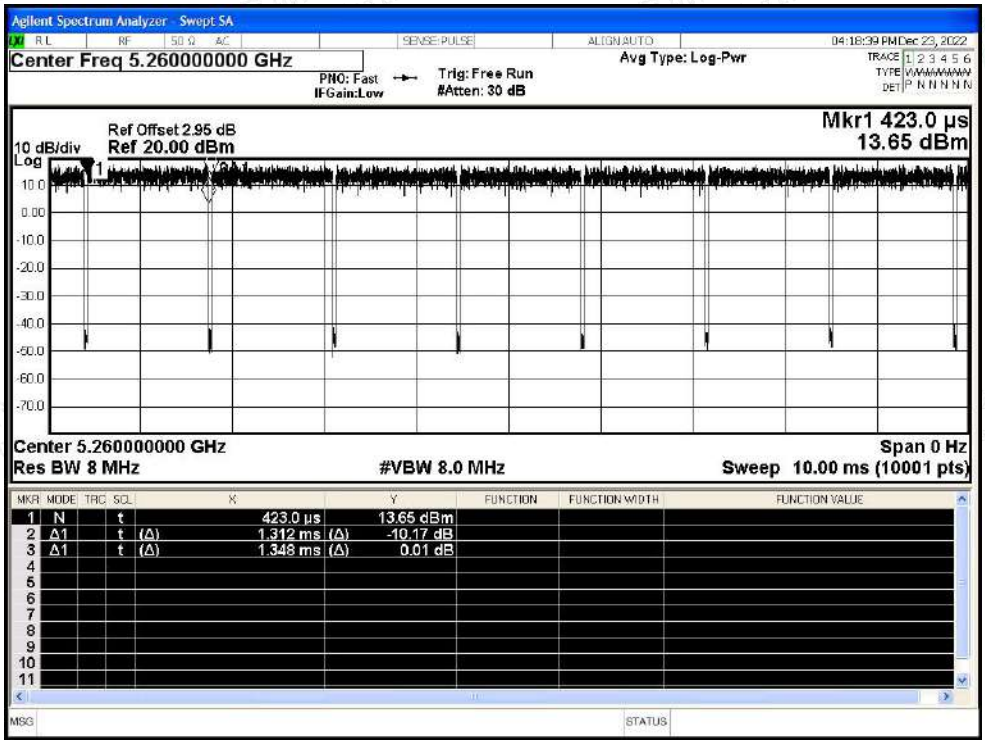
Duty Cycle NVNT n40 5270MHz Ant1



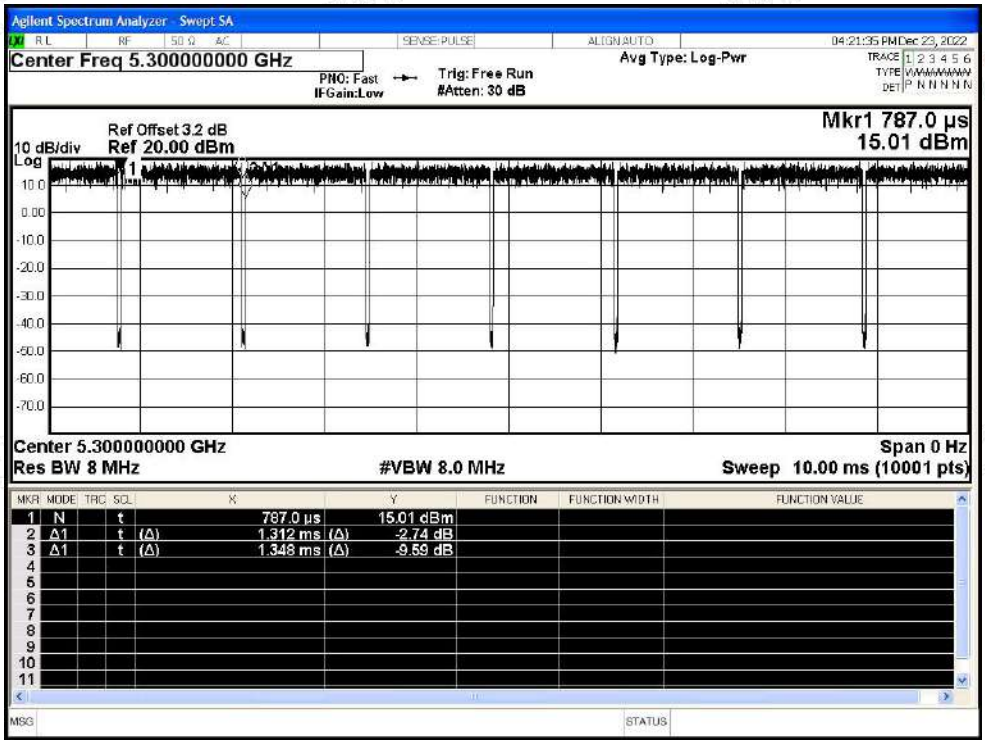
Duty Cycle NVNT n40 5310MHz Ant1



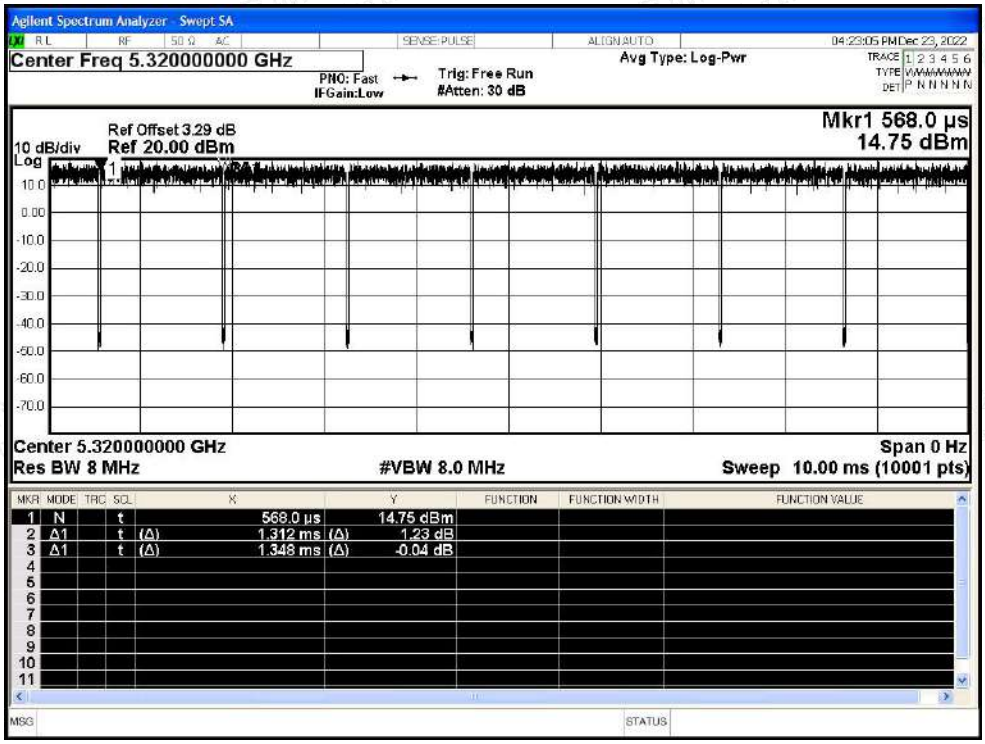
Duty Cycle NVNT ac20 5260MHz Ant1



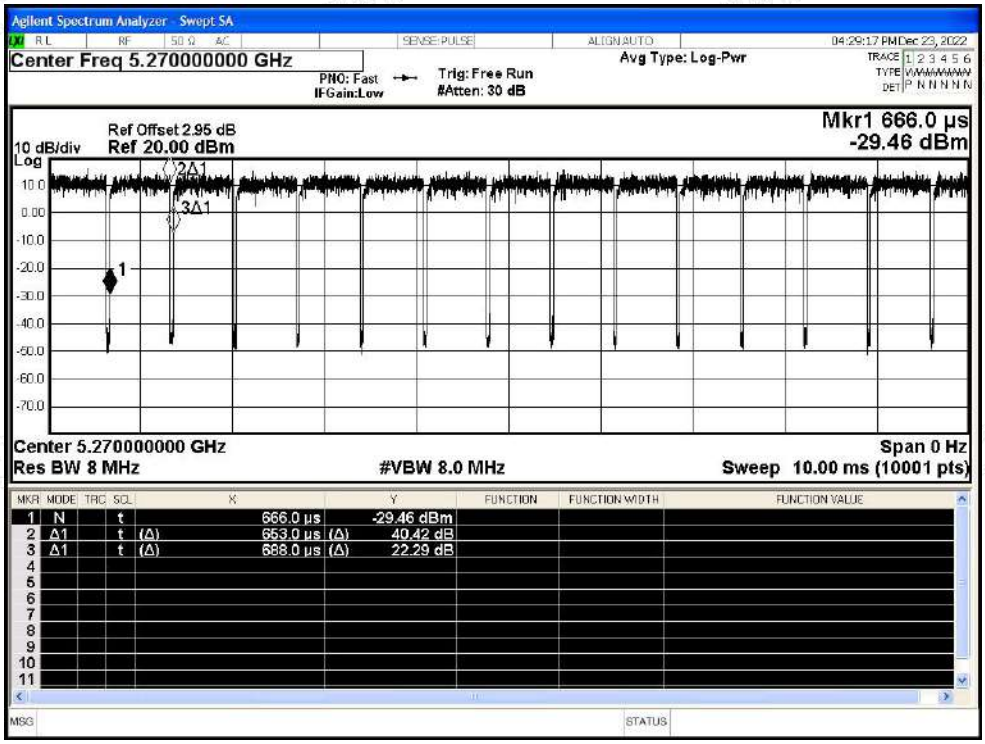
Duty Cycle NVNT ac20 5300MHz Ant1



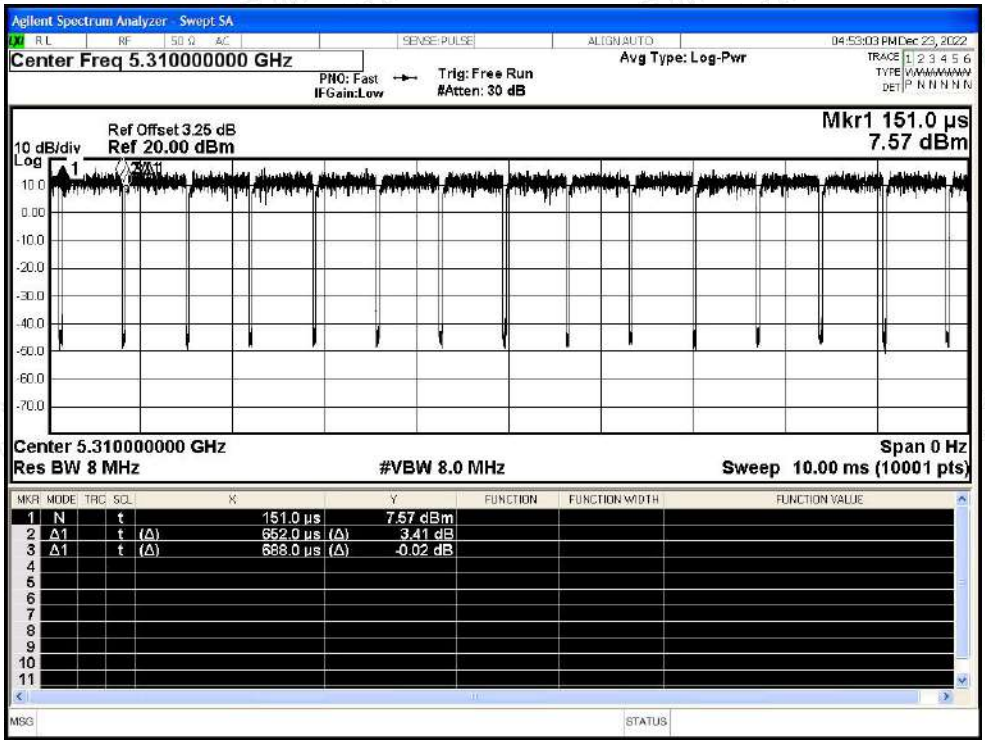
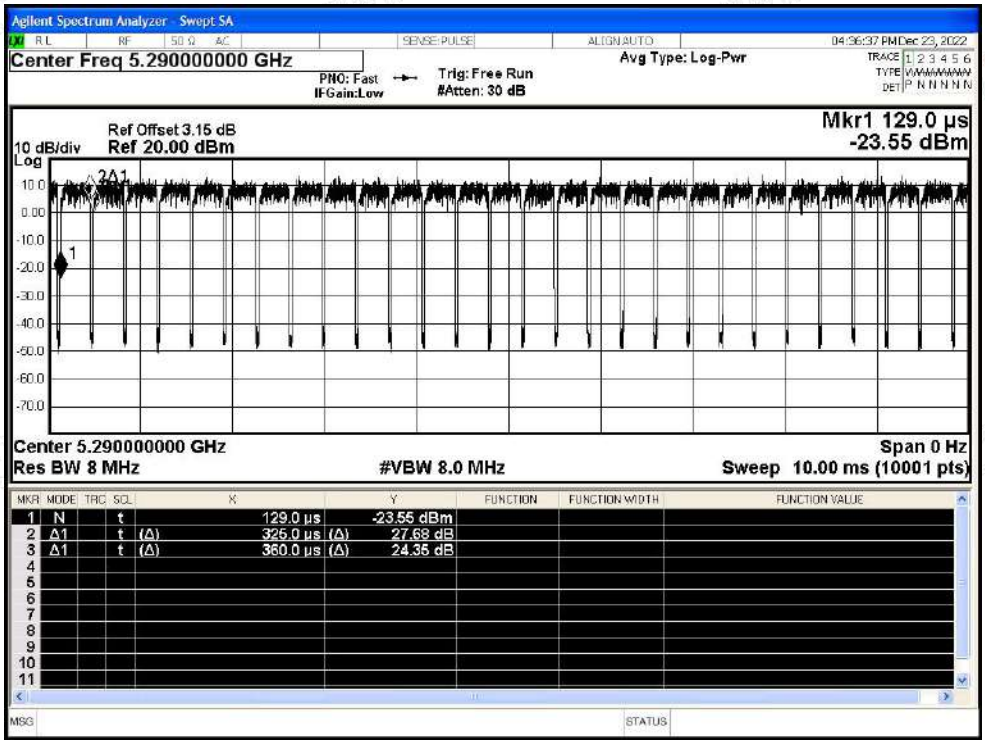
Duty Cycle NVNT ac20 5320MHz Ant1



Duty Cycle NVNT ac40 5270MHz Ant1



Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1