



Appendix C

RF Test Data for 5.3G WIFI (Conducted Measurement)

Product Name: NETWORK PLAYER

Test Model: 9000N

Environmental Conditions

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





C.1 -26dB Bandwidth

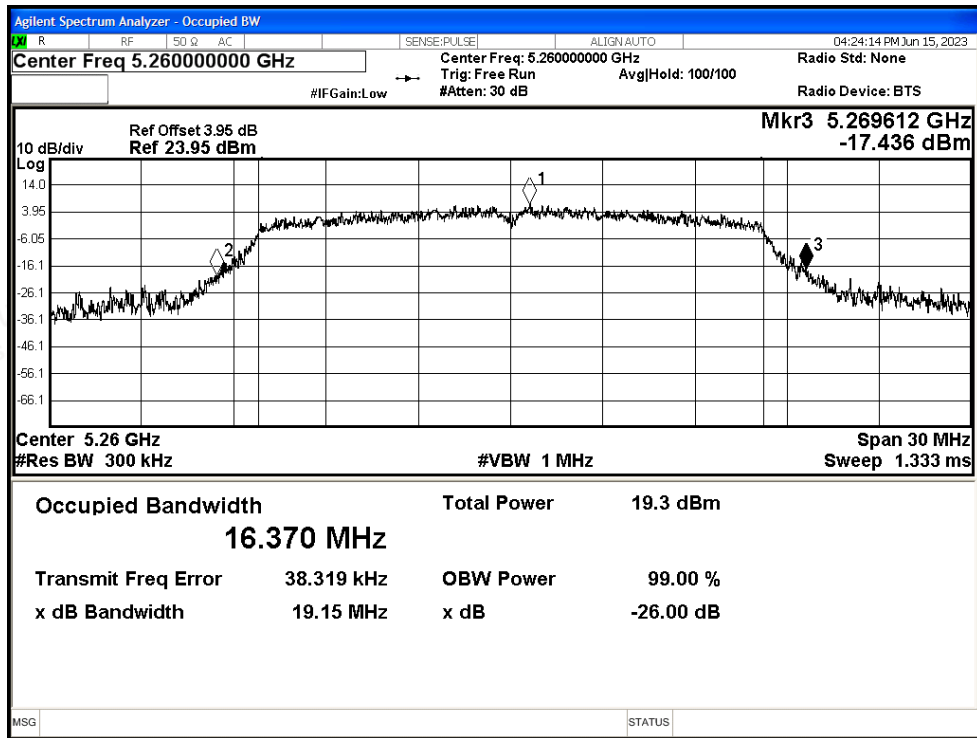
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	19.148	N/A	Pass
NVNT	a	5300	Ant1	19.507	N/A	Pass
NVNT	a	5320	Ant1	19.559	N/A	Pass
NVNT	n20	5260	Ant1	24.584	N/A	Pass
NVNT	n20	5300	Ant1	20.295	N/A	Pass
NVNT	n20	5320	Ant1	22.565	N/A	Pass
NVNT	n40	5270	Ant1	48.835	N/A	Pass
NVNT	n40	5310	Ant1	39.175	N/A	Pass
NVNT	ac20	5260	Ant1	20.374	N/A	Pass
NVNT	ac20	5300	Ant1	19.777	N/A	Pass
NVNT	ac20	5320	Ant1	20.012	N/A	Pass
NVNT	ac40	5270	Ant1	39.448	N/A	Pass
NVNT	ac40	5310	Ant1	39.385	N/A	Pass
NVNT	ac80	5290	Ant1	78.549	N/A	Pass



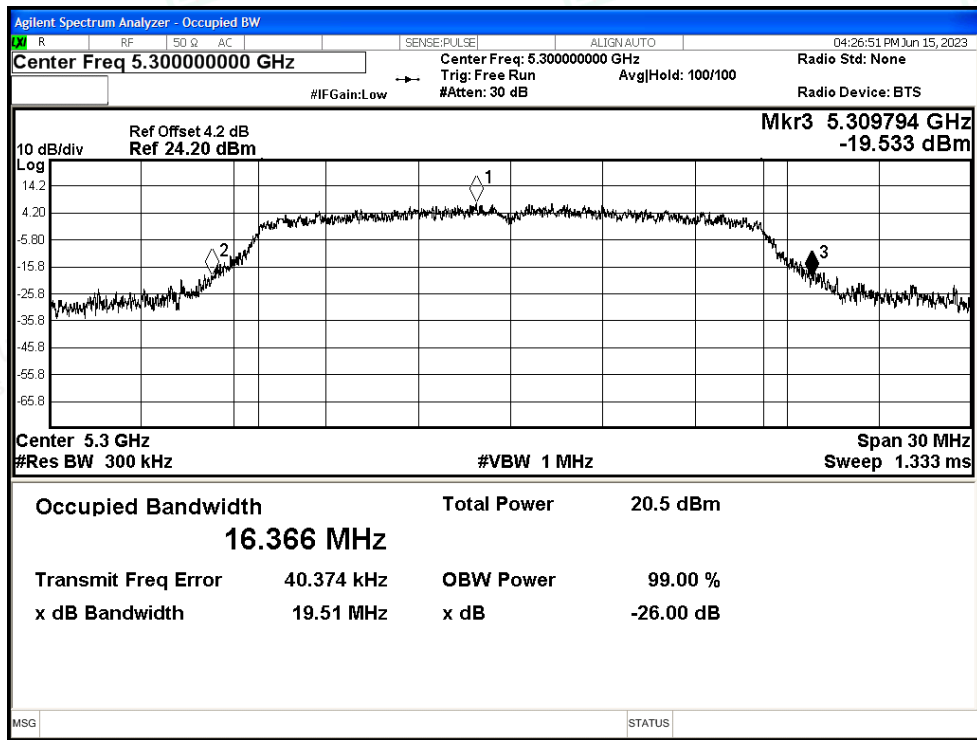


Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1

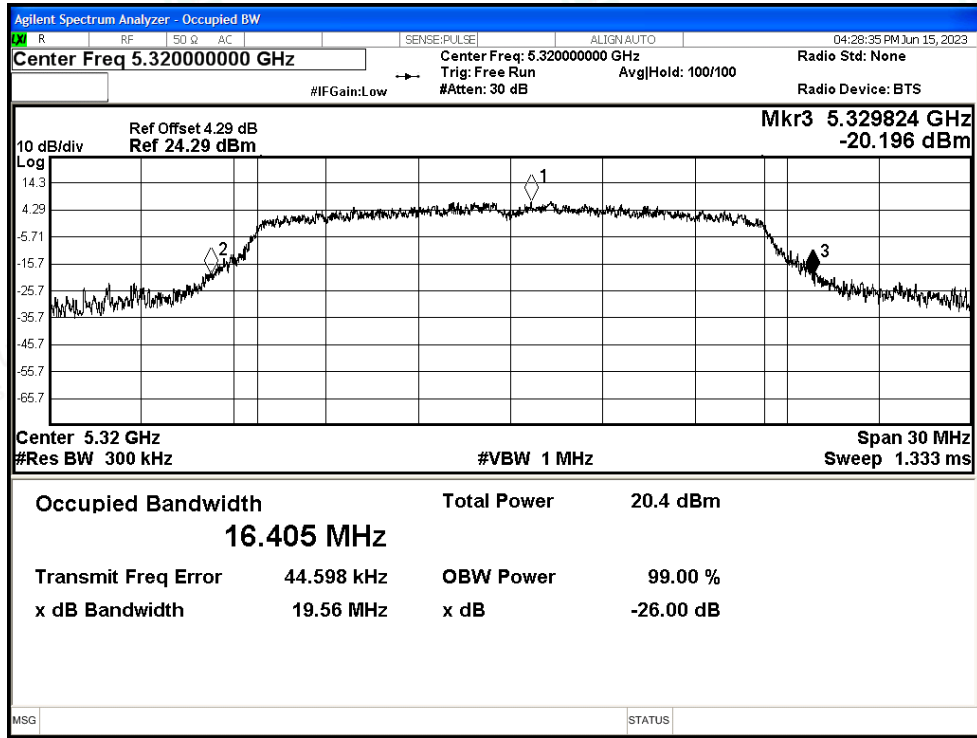


-26dB Bandwidth NVNT a 5300MHz Ant1

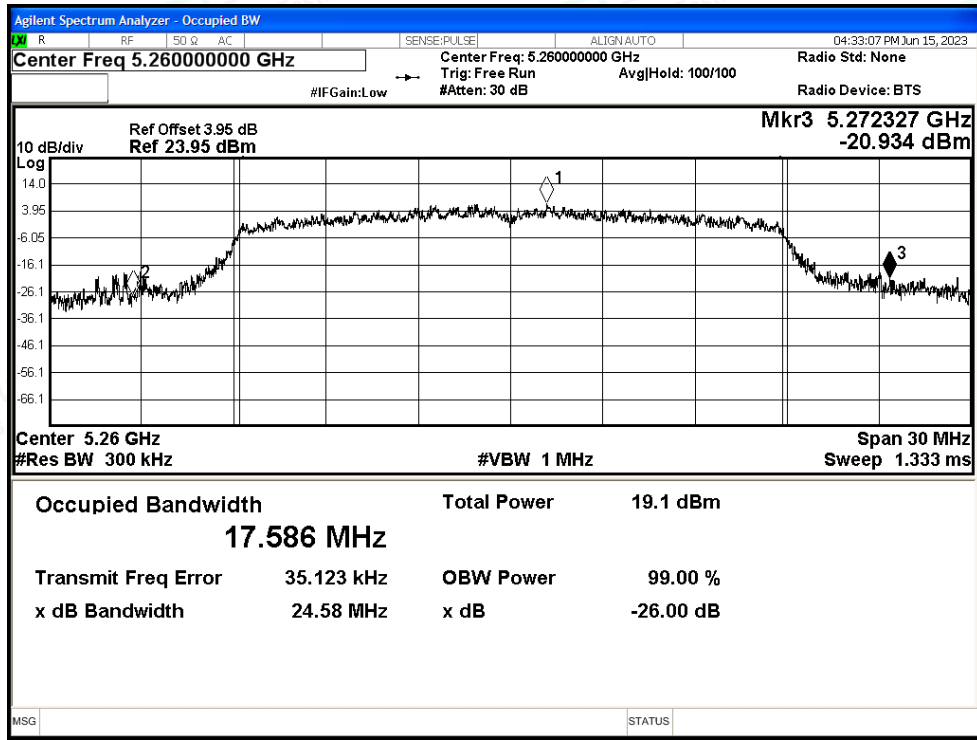




-26dB Bandwidth NVNT a 5320MHz Ant1

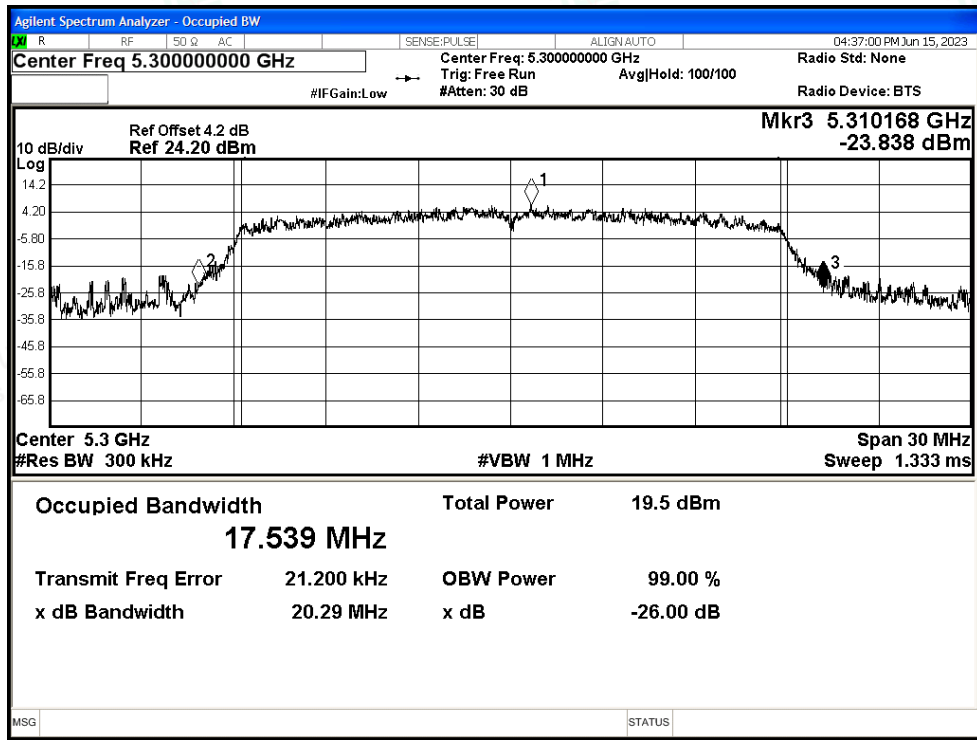


-26dB Bandwidth NVNT n20 5260MHz Ant1

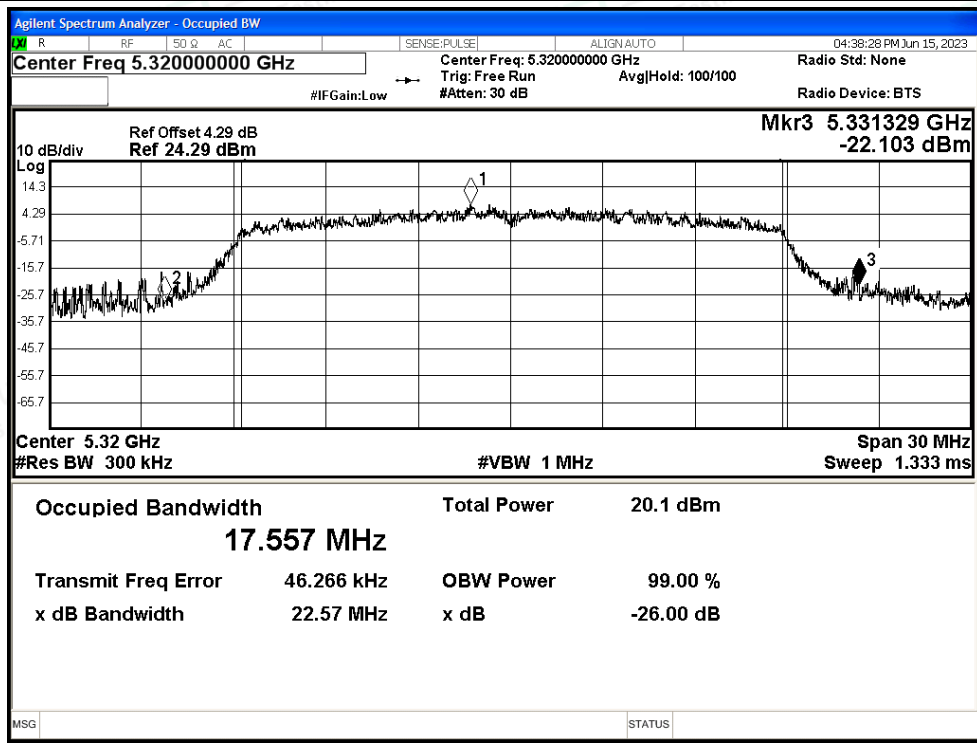




-26dB Bandwidth NVNT n20 5300MHz Ant1

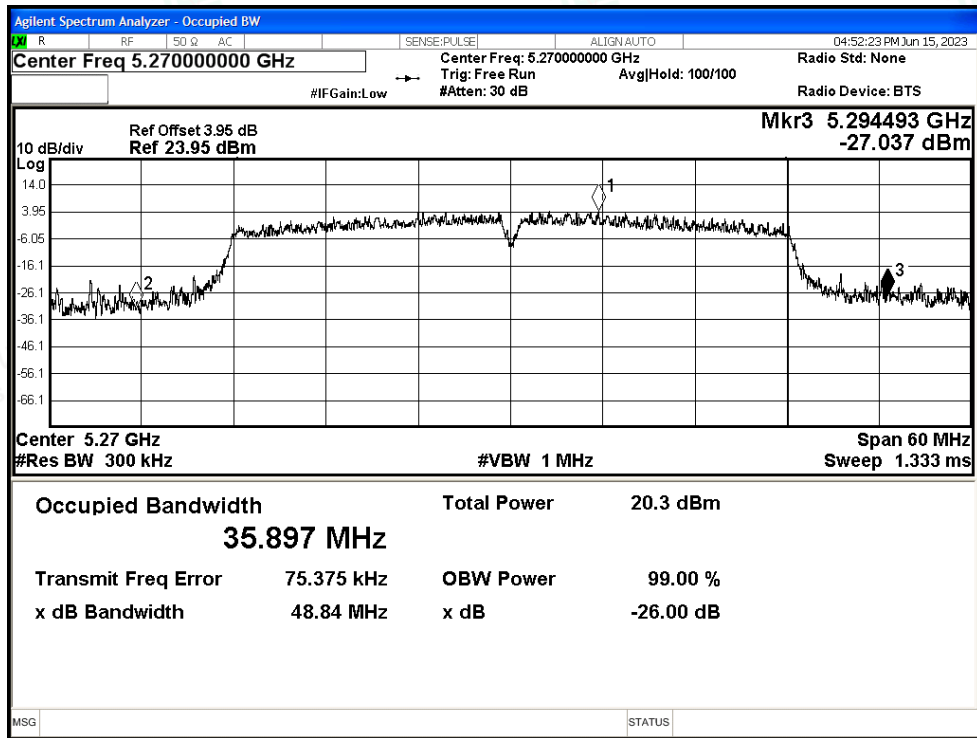


-26dB Bandwidth NVNT n20 5320MHz Ant1

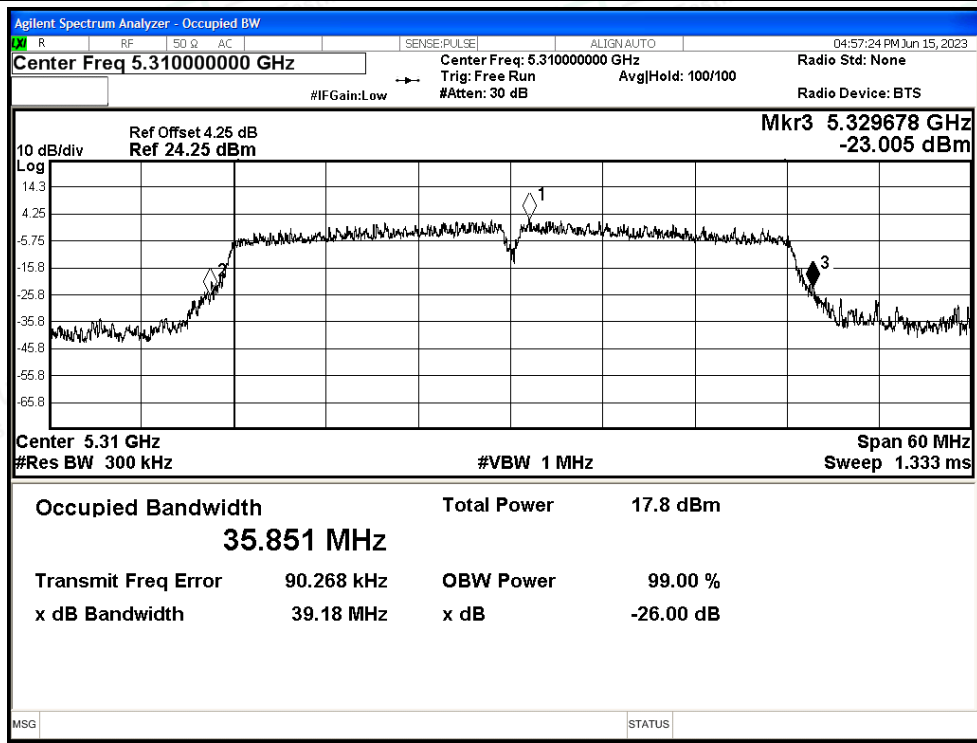




-26dB Bandwidth NVNT n40 5270MHz Ant1

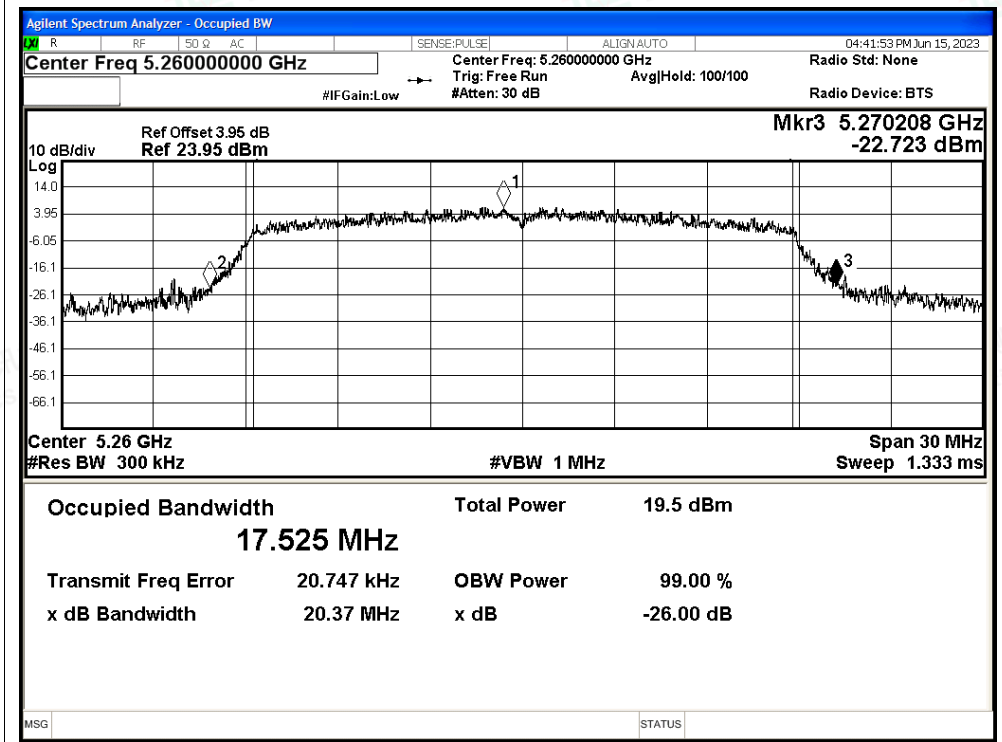


-26dB Bandwidth NVNT n40 5310MHz Ant1





-26dB Bandwidth NVNT ac20 5260MHz Ant1

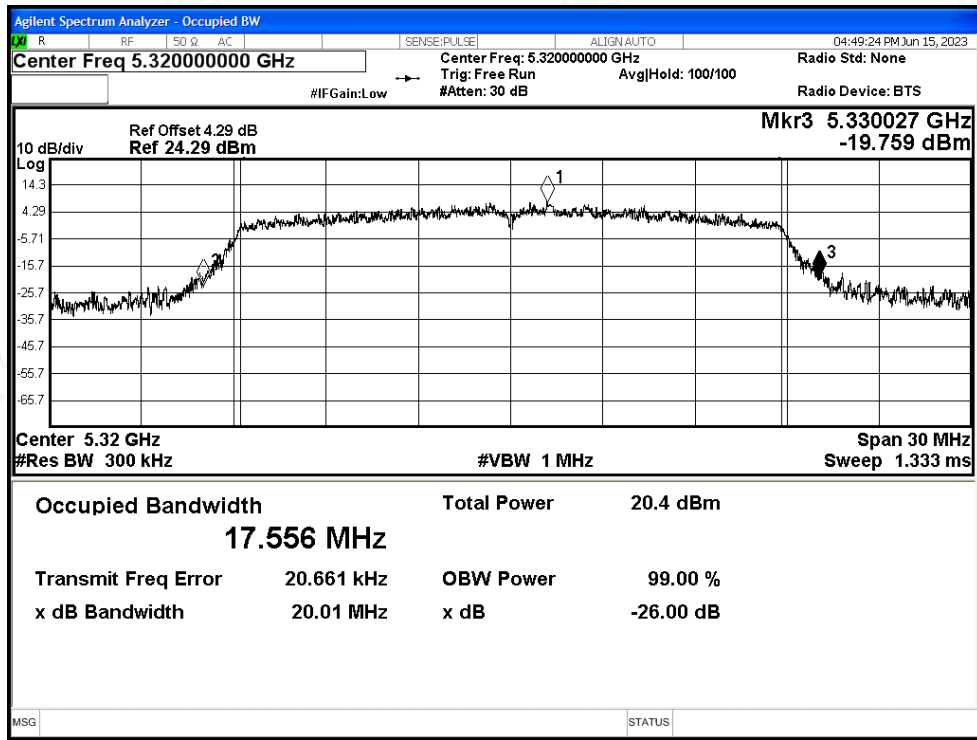


-26dB Bandwidth NVNT ac20 5300MHz Ant1

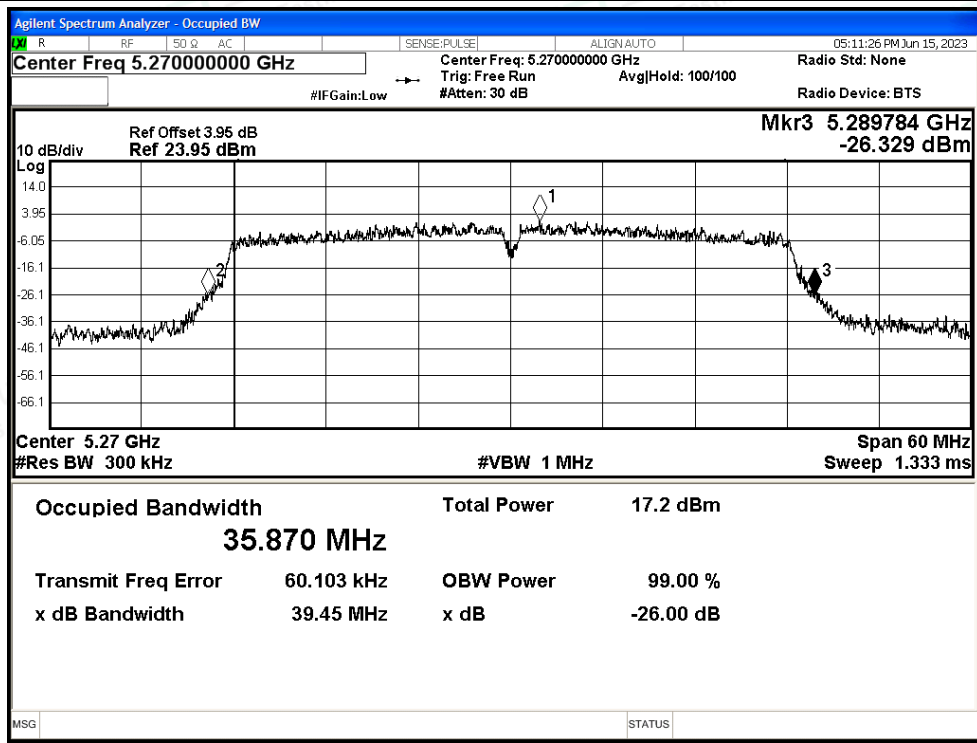




-26dB Bandwidth NVNT ac20 5320MHz Ant1

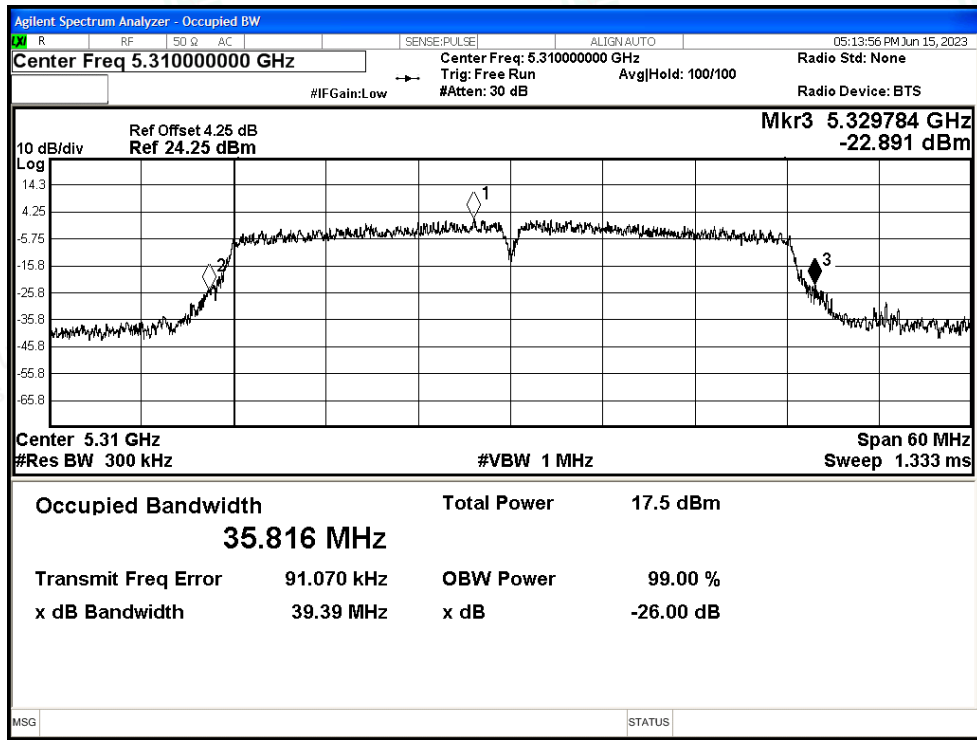


-26dB Bandwidth NVNT ac40 5270MHz Ant1

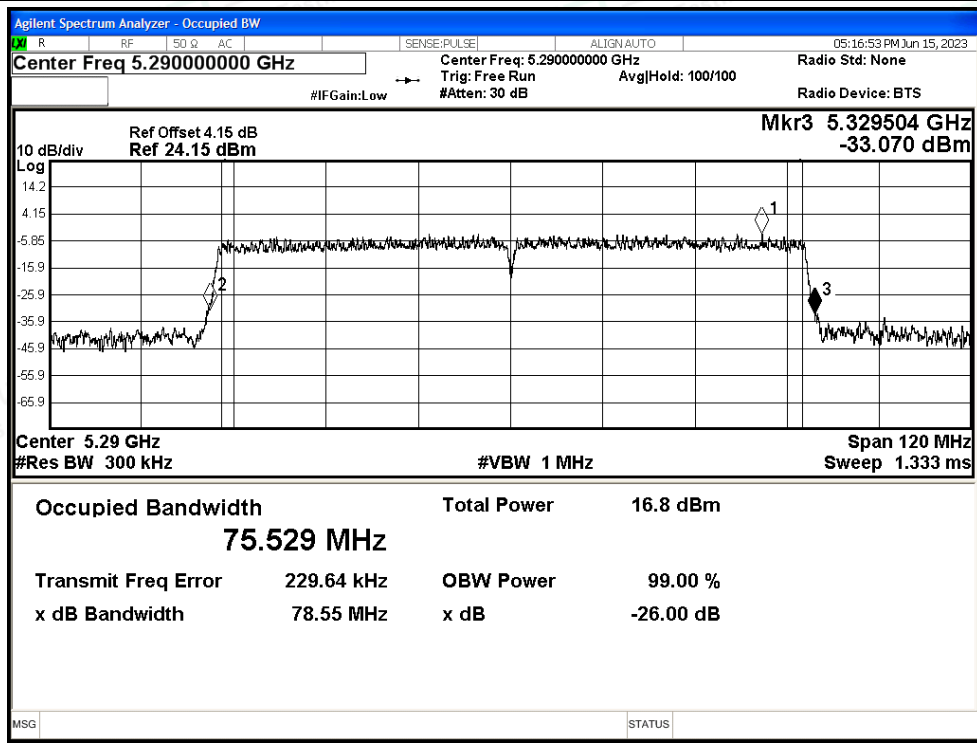




-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1





C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	10.35	2.35	12.70	24	Pass
NVNT	a	5300	Ant1	10.34	2.35	12.69	24	Pass
NVNT	a	5320	Ant1	10.27	2.33	12.60	24	Pass
NVNT	n20	5260	Ant1	8.87	2.57	11.44	24	Pass
NVNT	n20	5300	Ant1	10.97	2.7	13.67	24	Pass
NVNT	n20	5320	Ant1	9.4	2.61	12.01	24	Pass
NVNT	n40	5270	Ant1	8.3	4.24	12.54	24	Pass
NVNT	n40	5310	Ant1	8.38	4.25	12.63	24	Pass
NVNT	ac20	5260	Ant1	10.04	2.55	12.59	24	Pass
NVNT	ac20	5300	Ant1	10.89	2.44	13.33	24	Pass
NVNT	ac20	5320	Ant1	11.05	2.46	13.51	24	Pass
NVNT	ac40	5270	Ant1	7.28	4.21	11.49	24	Pass
NVNT	ac40	5310	Ant1	8.9	4.03	12.93	24	Pass
NVNT	ac80	5290	Ant1	5.69	6.33	12.02	24	Pass





C.3 Maximum Power Spectral Density Level

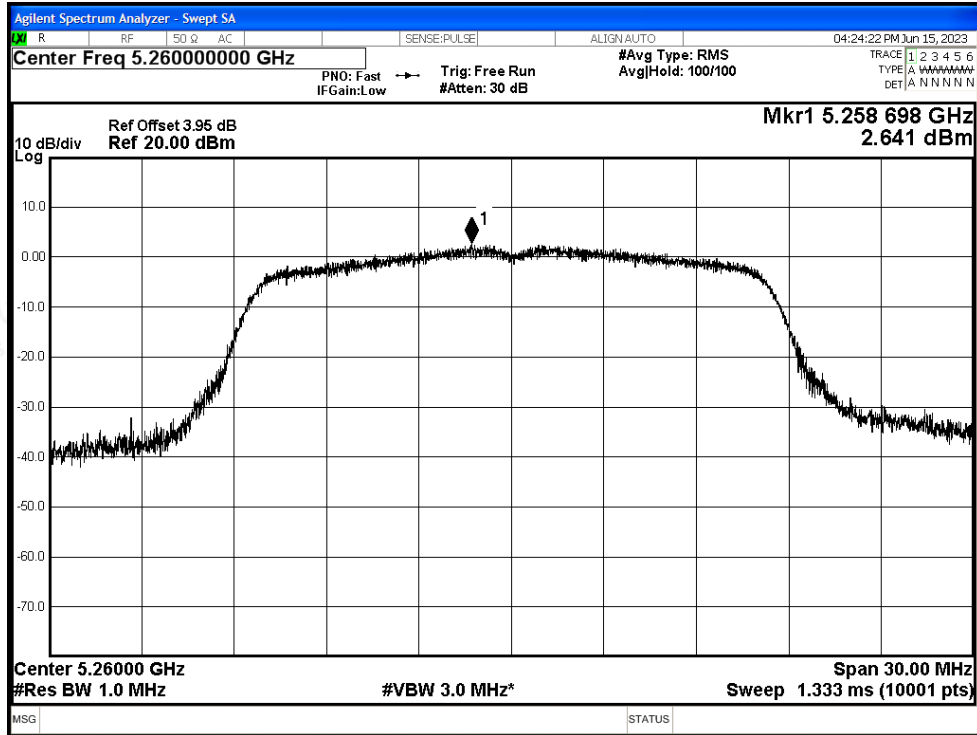
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	2.64	2.35	4.99	11	Pass
NVNT	a	5300	Ant1	3.85	2.35	6.2	11	Pass
NVNT	a	5320	Ant1	3.63	2.33	5.96	11	Pass
NVNT	n20	5260	Ant1	3.03	2.57	5.6	11	Pass
NVNT	n20	5300	Ant1	2.51	2.7	5.21	11	Pass
NVNT	n20	5320	Ant1	3.34	2.61	5.95	11	Pass
NVNT	n40	5270	Ant1	-0.17	4.24	4.07	11	Pass
NVNT	n40	5310	Ant1	-3.66	4.25	0.59	11	Pass
NVNT	ac20	5260	Ant1	2.36	2.55	4.91	11	Pass
NVNT	ac20	5300	Ant1	3.41	2.44	5.85	11	Pass
NVNT	ac20	5320	Ant1	3.77	2.46	6.23	11	Pass
NVNT	ac40	5270	Ant1	-3.57	4.21	0.64	11	Pass
NVNT	ac40	5310	Ant1	-3.48	4.03	0.55	11	Pass
NVNT	ac80	5290	Ant1	-9.45	6.33	-3.12	11	Pass



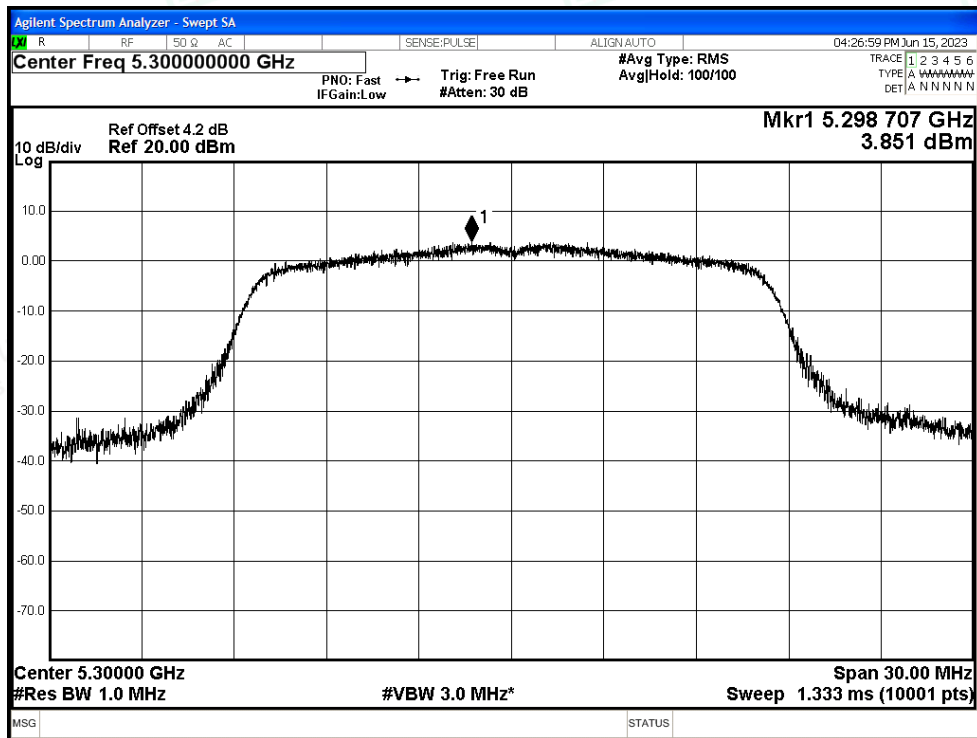


Test Graphs

PSD NVNT a 5260MHz Ant1

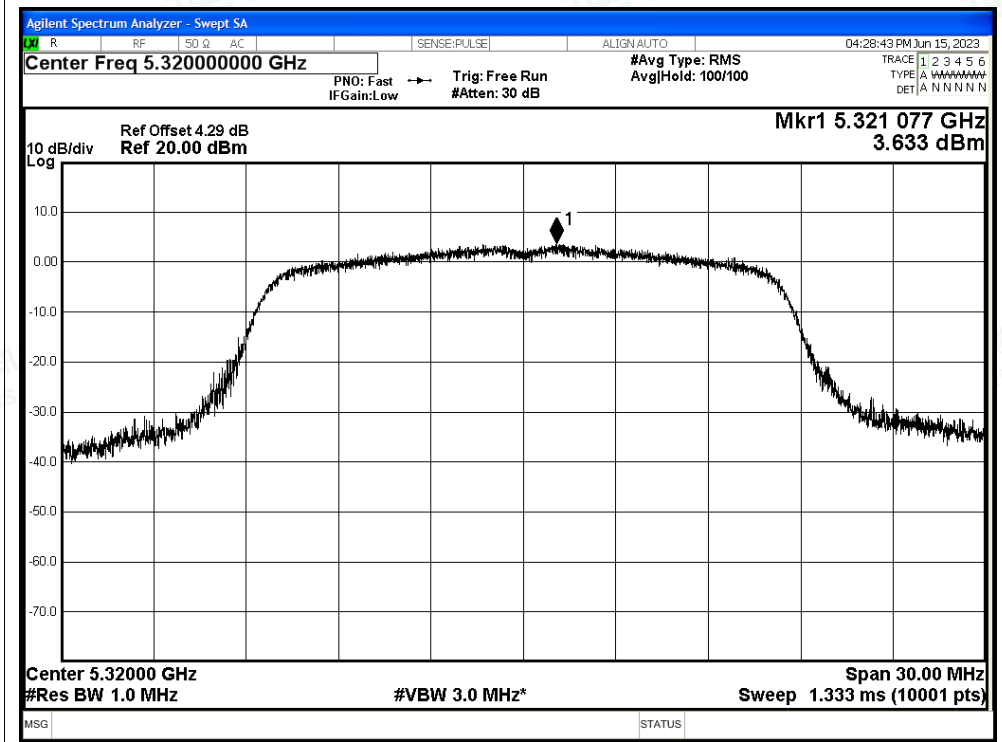


PSD NVNT a 5300MHz Ant1

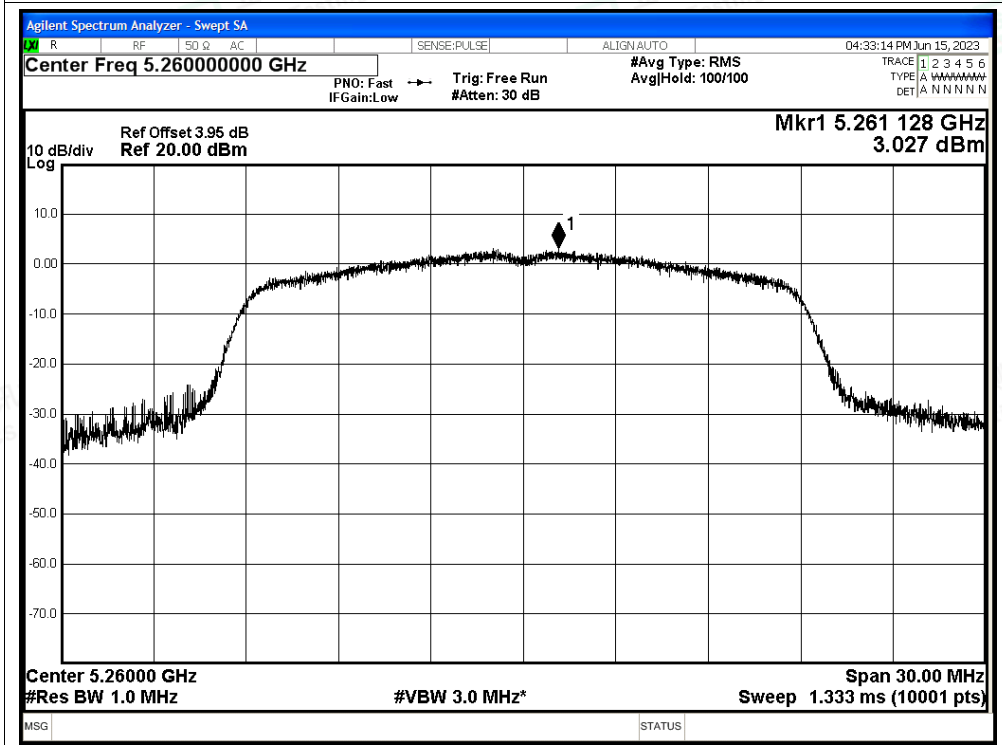


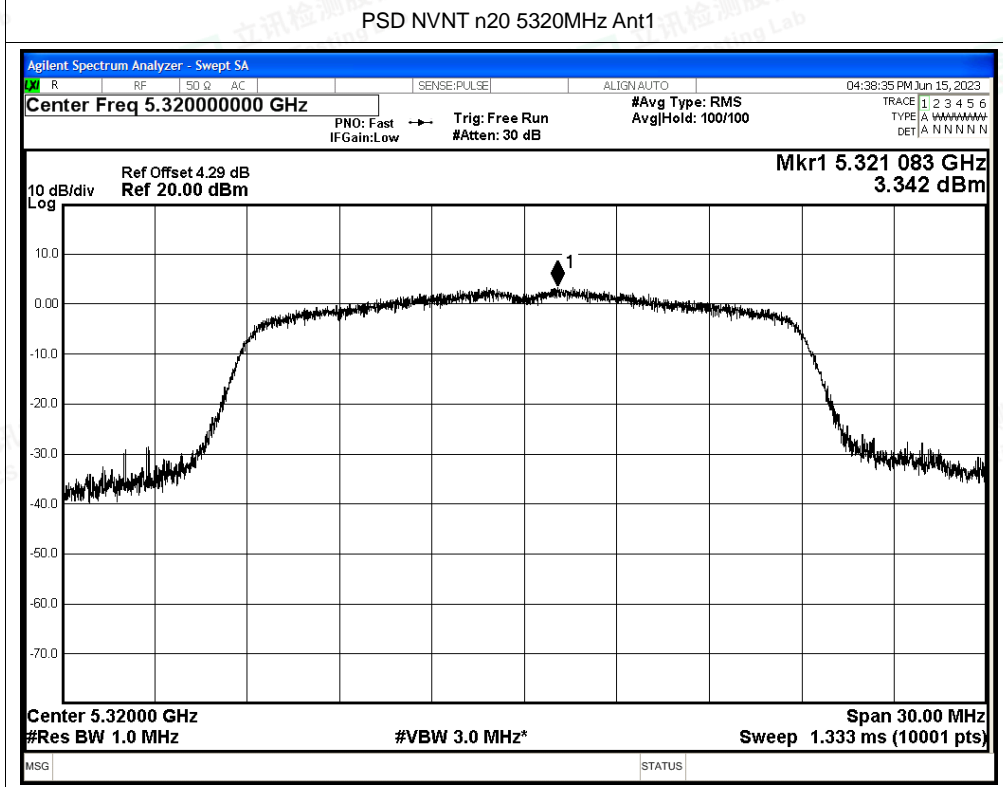
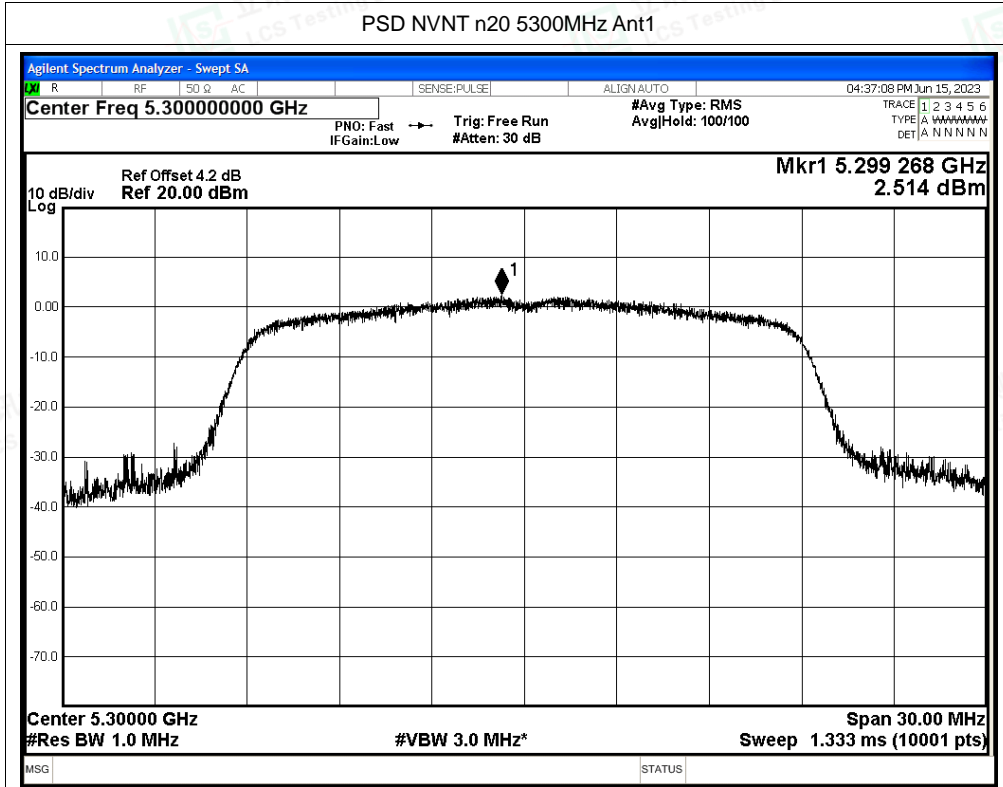


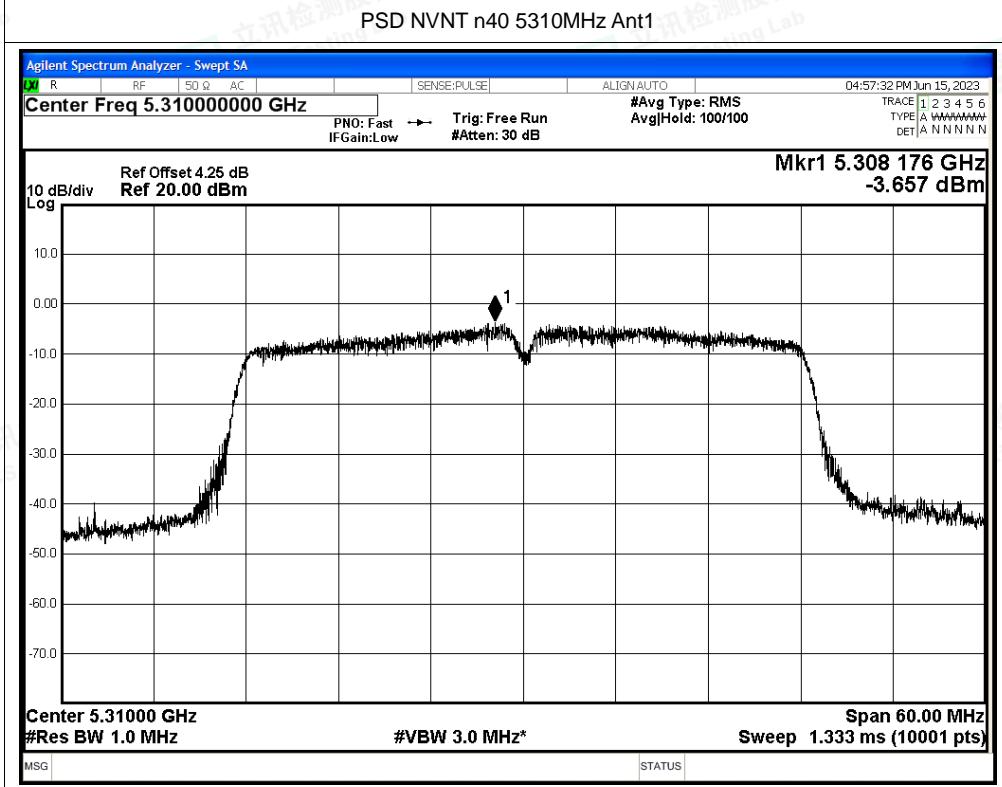
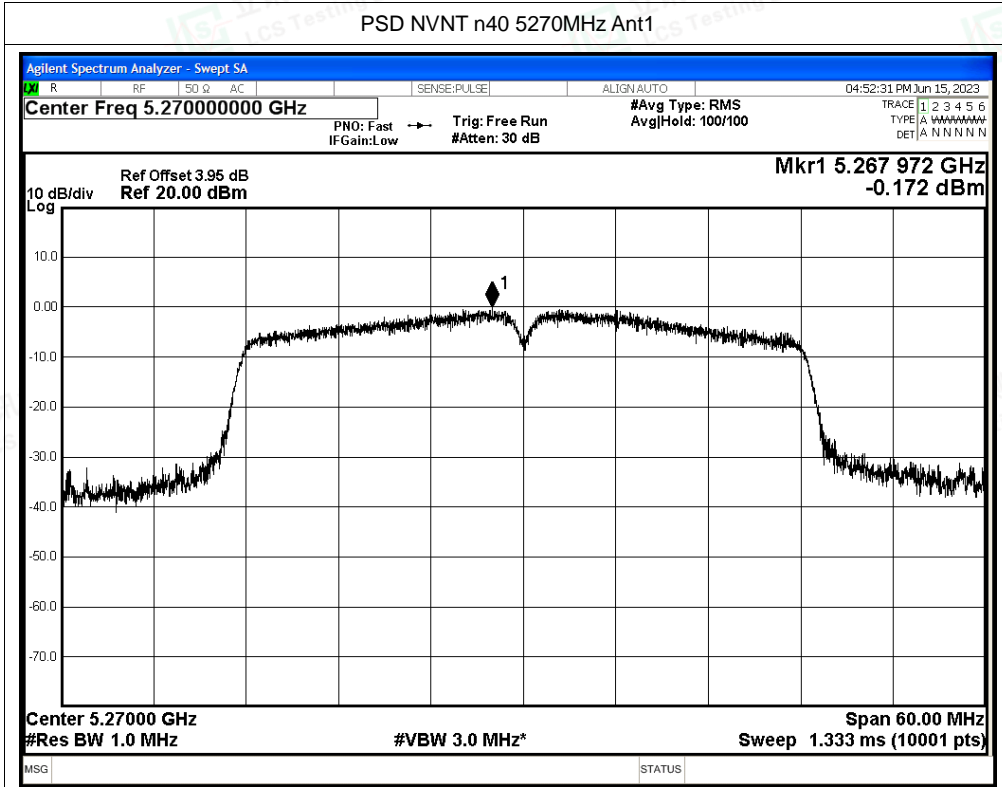
PSD NVNT a 5320MHz Ant1

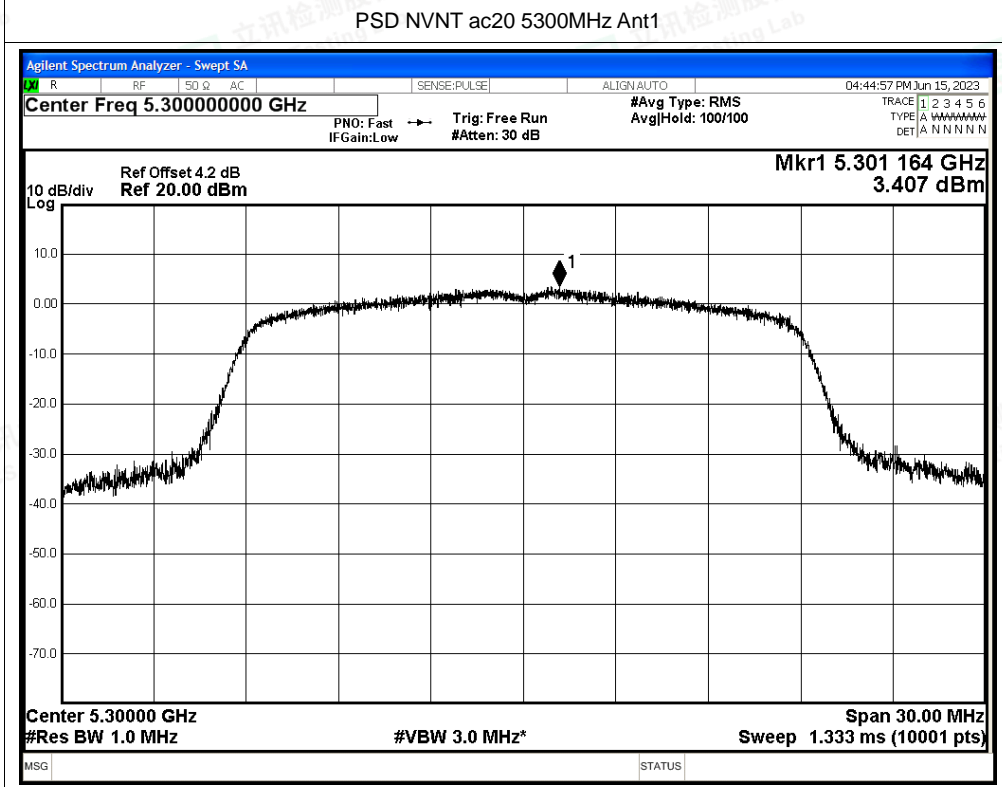
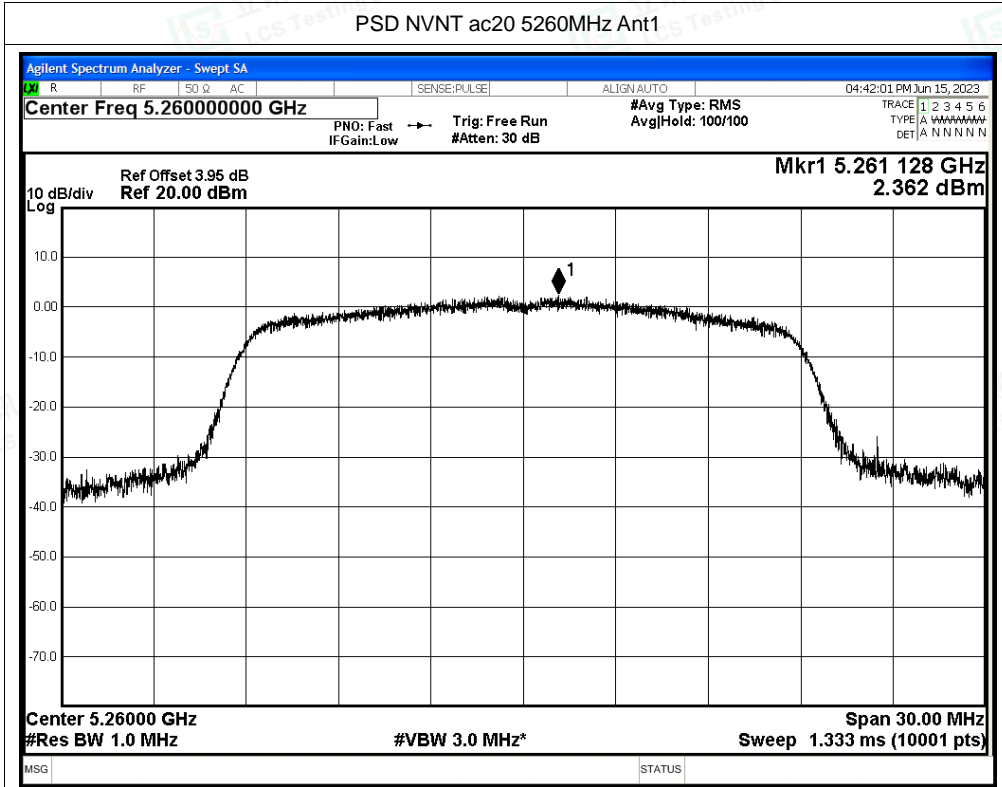


PSD NVNT n20 5260MHz Ant1



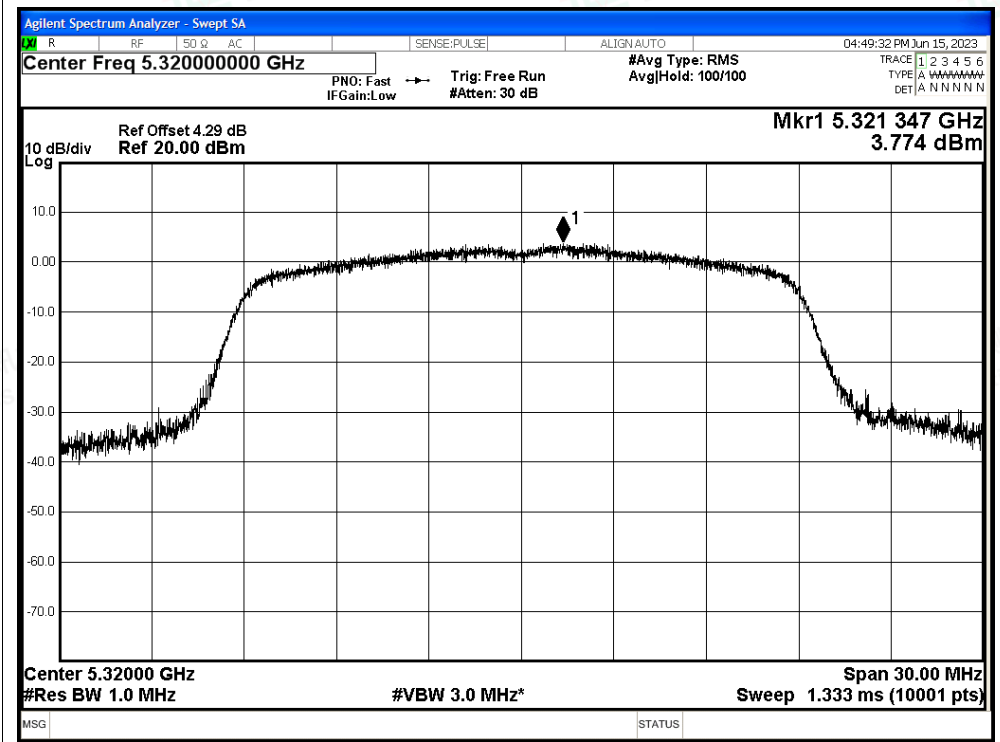




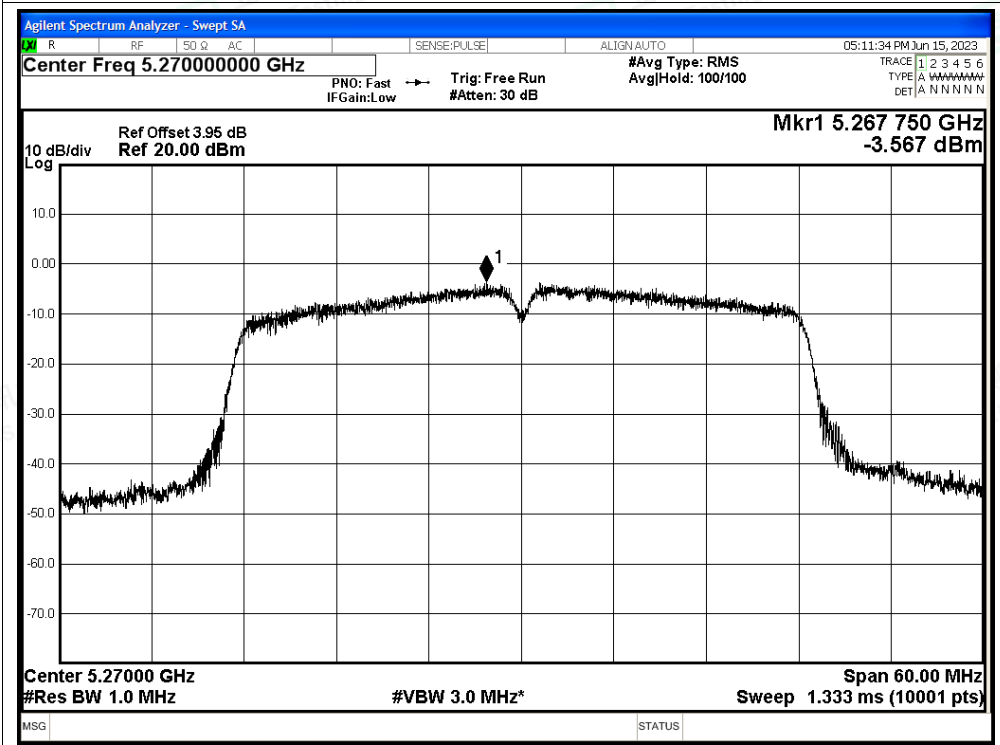


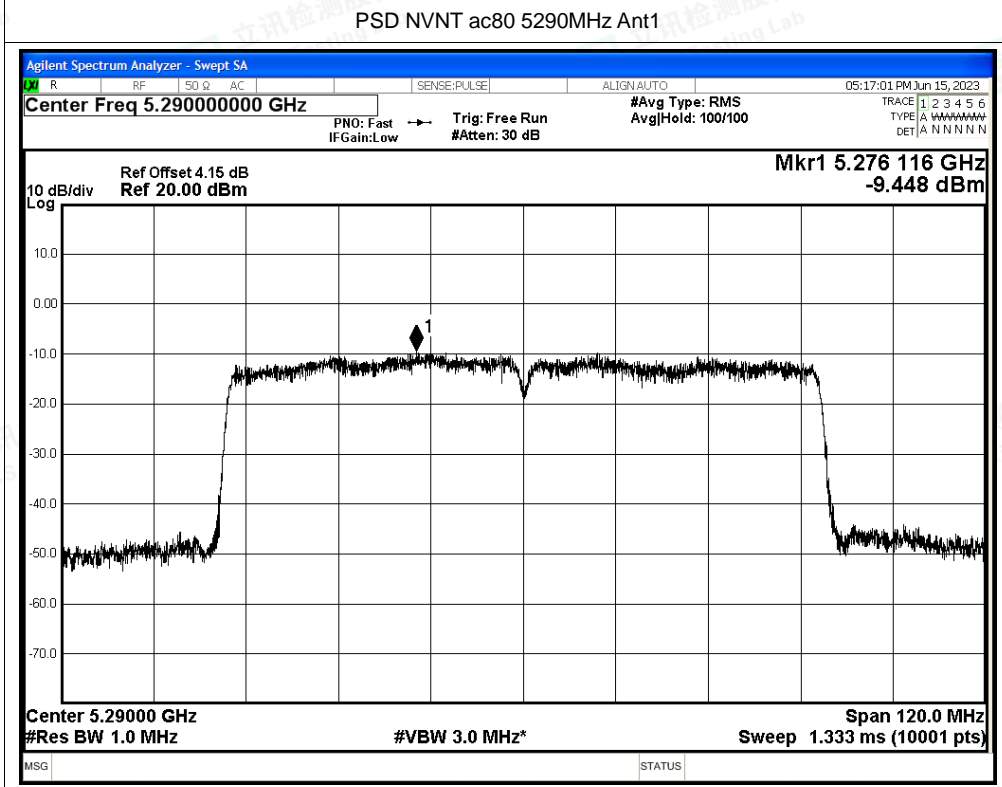
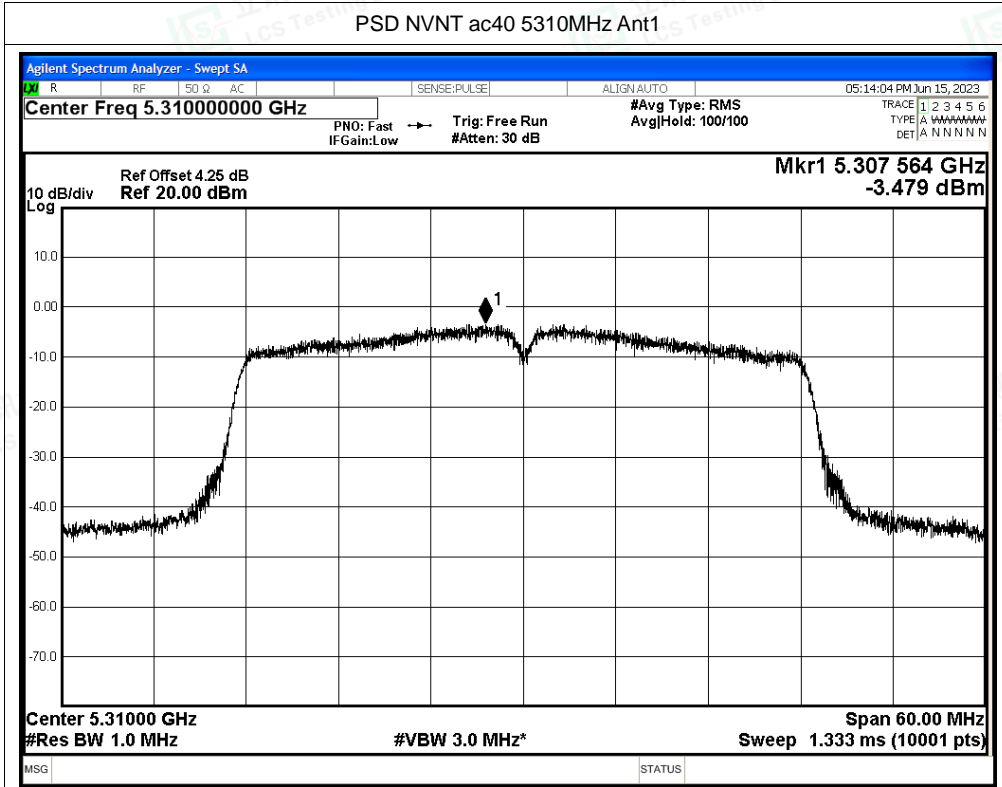


PSD NVNT ac20 5320MHz Ant1



PSD NVNT ac40 5270MHz Ant1







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	5260	Ant1	4500	-48.46	3.71	50.48	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-57.11	3.71	41.83	Average	54	Pass
NVNT	a	5260	Ant1	4788.6	-45.56	3.71	53.38	Peak	68.2	Pass
NVNT	a	5260	Ant1	5089.68	-55.46	3.71	43.48	Average	54	Pass
NVNT	a	5260	Ant1	5150	-48.57	3.71	50.37	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-55.91	3.71	43.03	Average	54	Pass
NVNT	a	5320	Ant1	5350	-48.59	3.71	50.35	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-55.54	3.71	43.40	Average	54	Pass
NVNT	a	5320	Ant1	5370.2	-46.3	3.71	52.64	Peak	68.2	Pass
NVNT	a	5320	Ant1	5351	-55.44	3.71	43.50	Average	54	Pass
NVNT	a	5320	Ant1	5460	-48.83	3.71	50.11	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-55.93	3.71	43.01	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-48.97	3.71	49.97	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-57.09	3.71	41.85	Average	54	Pass
NVNT	n20	5260	Ant1	4925.88	-46.14	3.71	52.80	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5056.92	-55.38	3.71	43.56	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-48.93	3.71	50.01	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-55.83	3.71	43.11	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-49.26	3.71	49.68	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-55.3	3.71	43.64	Average	54	Pass
NVNT	n20	5320	Ant1	5383.2	-45.57	3.71	53.37	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5354.8	-55.23	3.71	43.71	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-50.11	3.71	48.83	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-56	3.71	42.94	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-49.99	3.71	48.95	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-56.81	3.71	42.13	Average	54	Pass
NVNT	n40	5270	Ant1	5059.71	-45.93	3.71	53.01	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5079.15	-55.14	3.71	43.80	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-47.79	3.71	51.15	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-55.68	3.71	43.26	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-49.22	3.71	49.72	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-55.31	3.71	43.63	Average	54	Pass
NVNT	n40	5310	Ant1	5417.2	-46.11	3.71	52.83	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5356.4	-54.97	3.71	43.97	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-48.84	3.71	50.10	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-55.92	3.71	43.02	Average	54	Pass
NVNT	ac20	5260	Ant1	4500	-49.24	3.71	49.70	Peak	68.2	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.
 Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
 Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
 Scan code to check authenticity



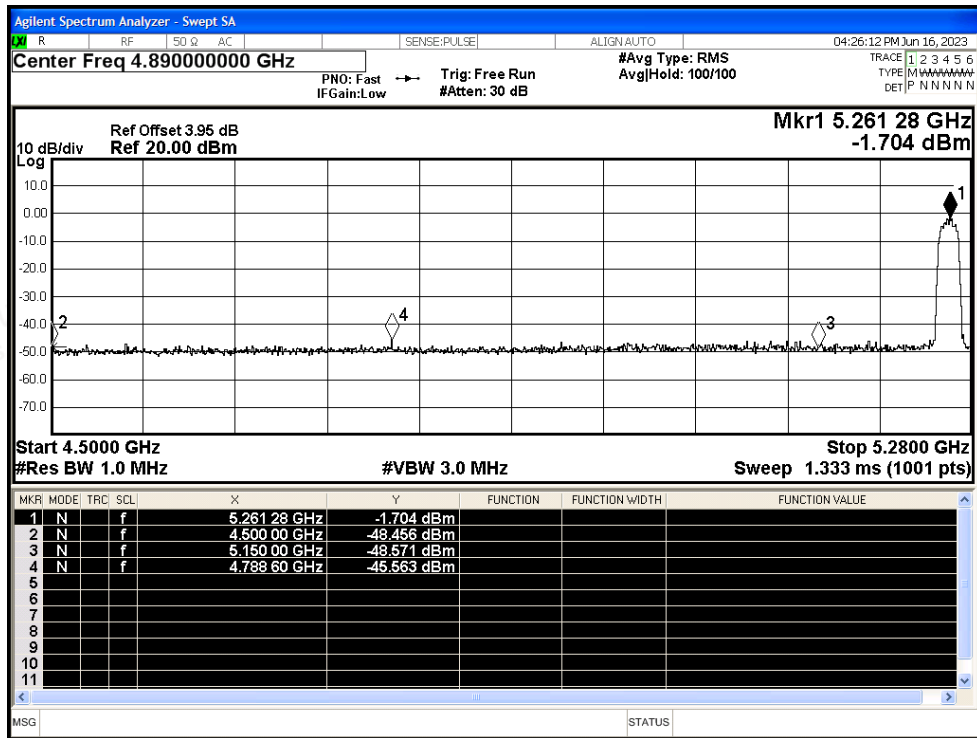
NVNT	ac20	5260	Ant1	4500	-57.32	3.71	41.62	Average	54	Pass
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NVNT	ac20	5260	Ant1	5131.8	-55.41	3.71	43.53	Average	54	Pass
NVNT	ac20	5260	Ant1	5150	-49.13	3.71	49.81	Peak	68.2	Pass
NVNT	ac20	5260	Ant1	5150	-55.88	3.71	43.06	Average	54	Pass
NVNT	ac20	5320	Ant1	5350	-46.96	3.71	51.98	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5350	-55.5	3.71	43.44	Average	54	Pass
NVNT	ac20	5320	Ant1	5443.6	-45.5	3.71	53.44	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5372	-55.31	3.71	43.63	Average	54	Pass
NVNT	ac20	5320	Ant1	5460	-48.86	3.71	50.08	Peak	68.2	Pass
NVNT	ac20	5320	Ant1	5460	-55.82	3.71	43.12	Average	54	Pass
NVNT	ac40	5270	Ant1	4500	-49.26	3.71	49.68	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	4500	-56.83	3.71	42.11	Average	54	Pass
NVNT	ac40	5270	Ant1	5142.33	-46.32	3.71	52.62	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5105.07	-55.19	3.71	43.75	Average	54	Pass
NVNT	ac40	5270	Ant1	5150	-49.25	3.71	49.69	Peak	68.2	Pass
NVNT	ac40	5270	Ant1	5150	-55.64	3.71	43.30	Average	54	Pass
NVNT	ac40	5310	Ant1	5350	-50.11	3.71	48.83	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350	-55.33	3.71	43.61	Average	54	Pass
NVNT	ac40	5310	Ant1	5414.8	-46.49	3.71	52.45	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5350.8	-55.04	3.71	43.90	Average	54	Pass
NVNT	ac40	5310	Ant1	5460	-50.48	3.71	48.46	Peak	68.2	Pass
NVNT	ac40	5310	Ant1	5460	-55.8	3.71	43.14	Average	54	Pass
NVNT	ac80	5290	Ant1	4500	-48.66	3.71	50.28	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	4500	-56.39	3.71	42.55	Average	54	Pass
NVNT	ac80	5290	Ant1	5108.13	-45.25	3.71	53.69	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5037.66	-54.45	3.71	44.49	Average	54	Pass
NVNT	ac80	5290	Ant1	5150	-49.09	3.71	49.85	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5150	-55.1	3.71	43.84	Average	54	Pass
NVNT	ac80	5290	Ant1	5350	-49.61	3.71	49.33	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5350	-54.08	3.71	44.86	Average	54	Pass
NVNT	ac80	5290	Ant1	5414	-46.3	3.71	52.64	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-47.98	3.71	50.96	Peak	68.2	Pass
NVNT	ac80	5290	Ant1	5460	-55.82	3.71	43.12	Average	54	Pass



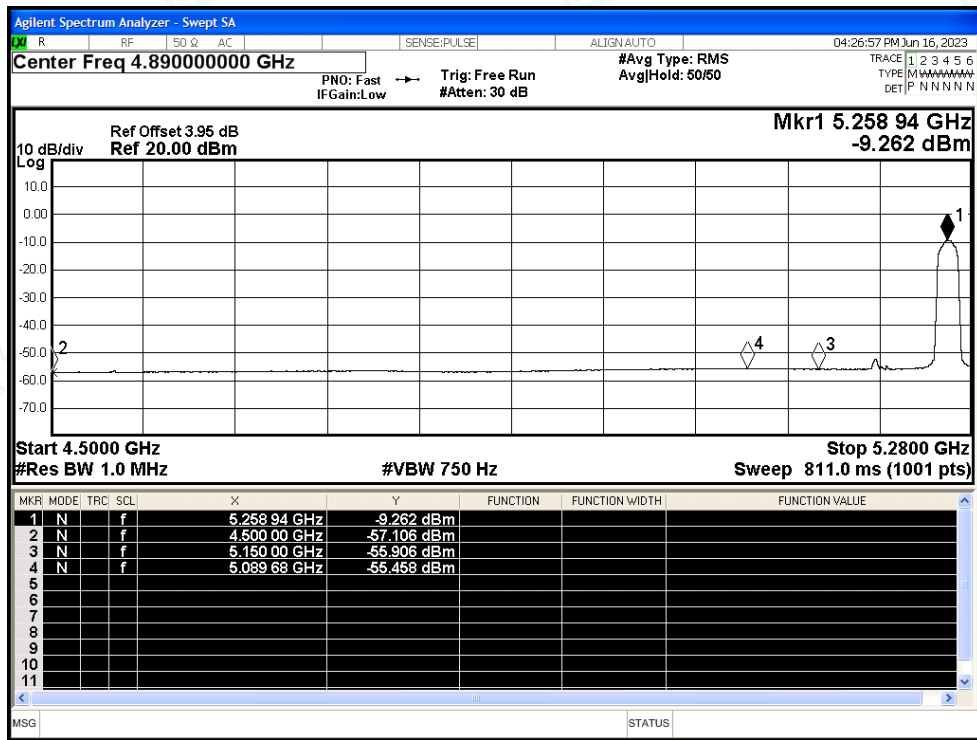


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak

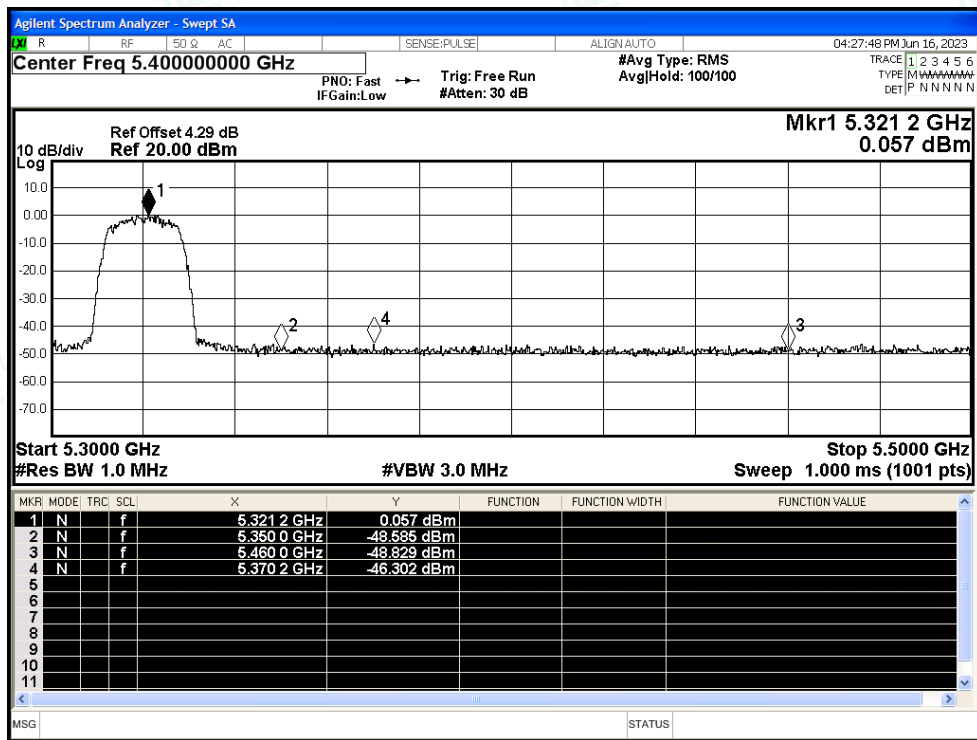


Restrict Band NVNT a 5260MHz Ant1 Average

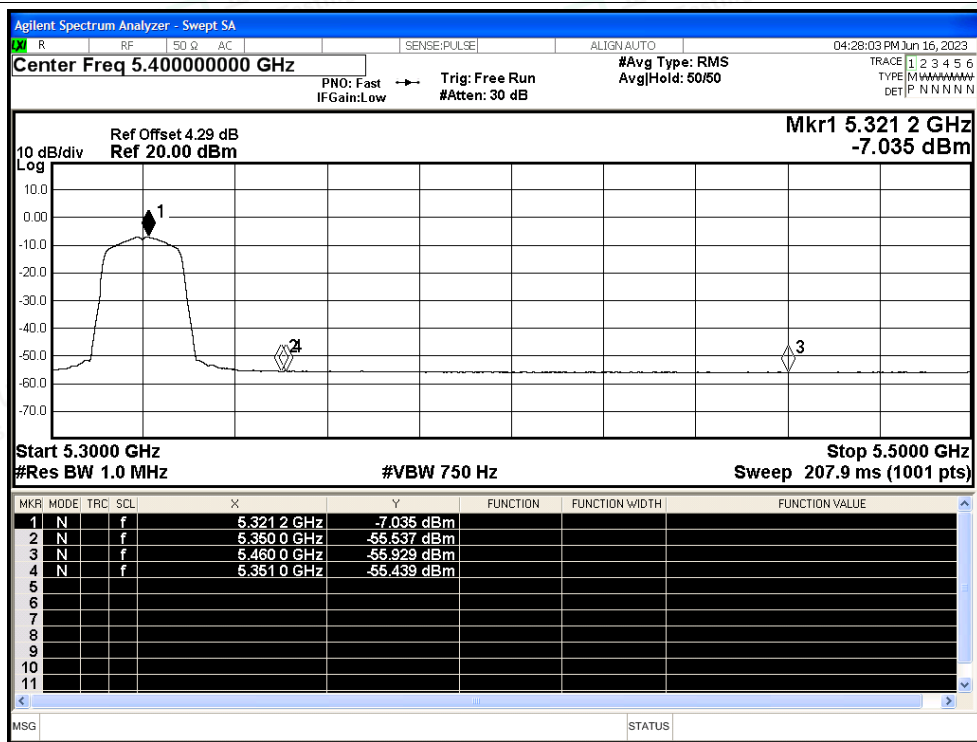




Restrict Band NVNT a 5320MHz Ant1 Peak

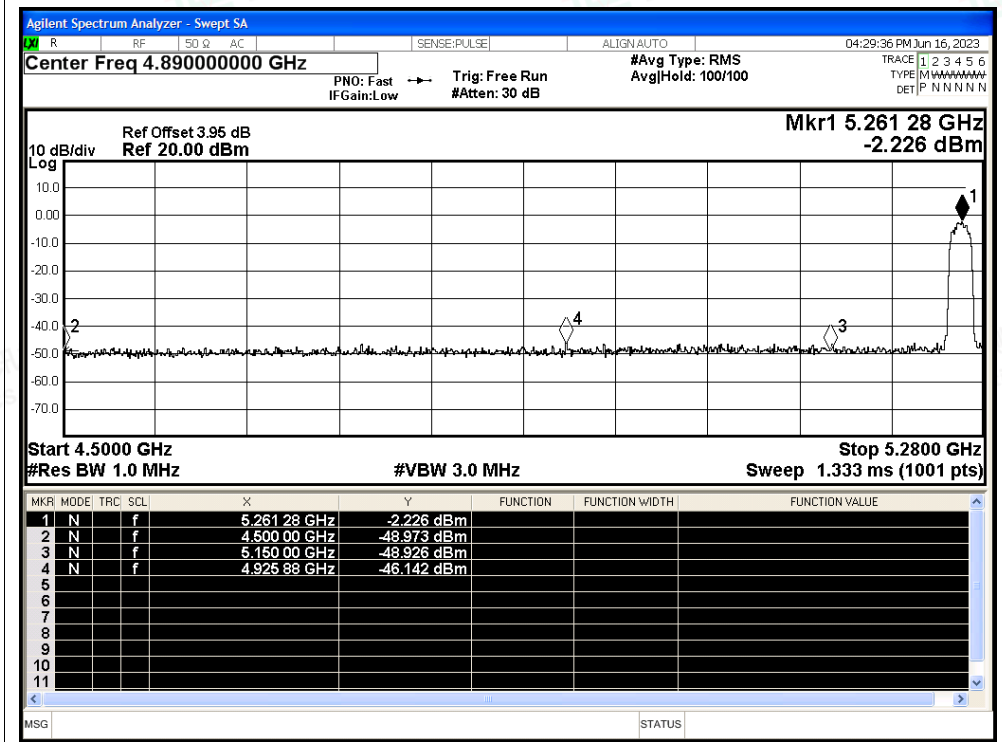


Restrict Band NVNT a 5320MHz Ant1 Average

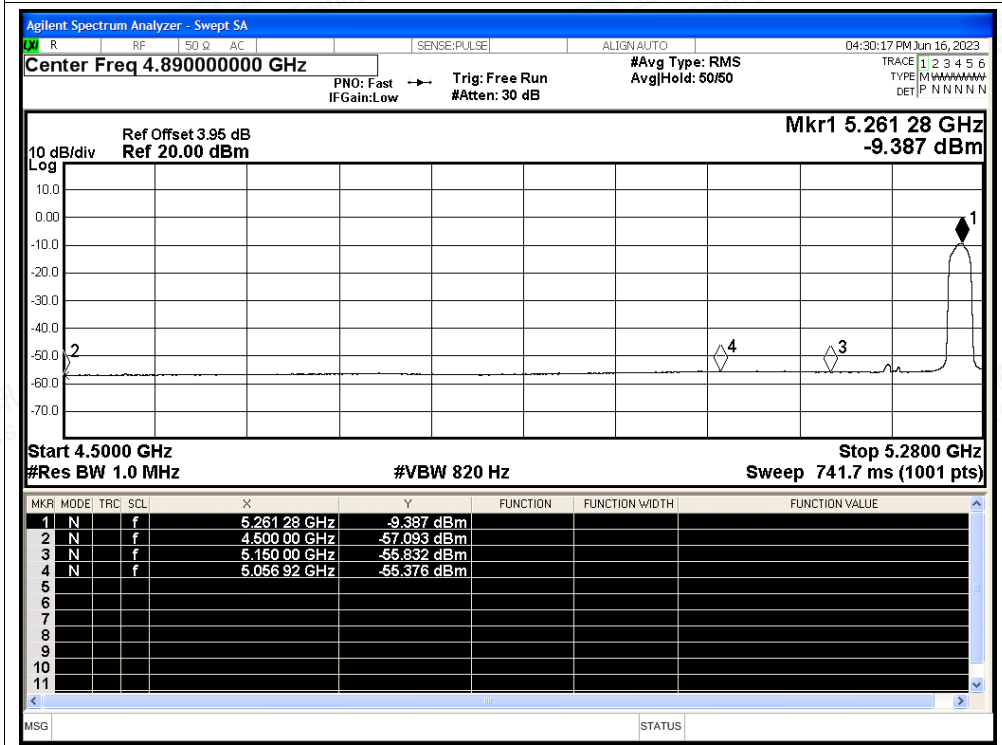




Restrict Band NVNT n20 5260MHz Ant1 Peak

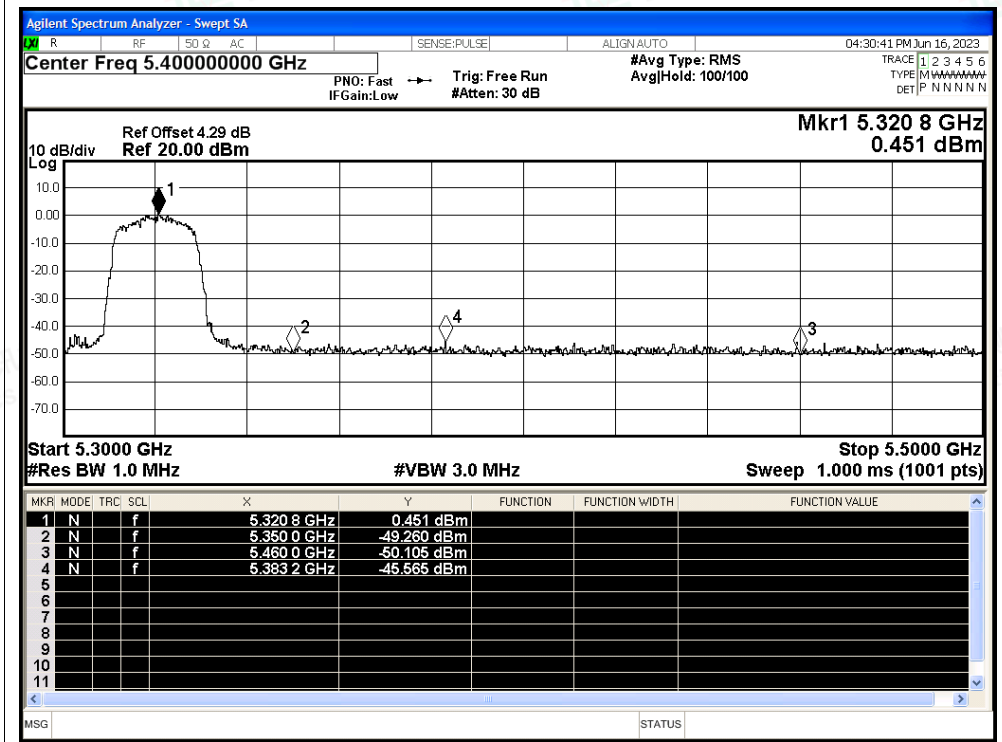


Restrict Band NVNT n20 5260MHz Ant1 Average

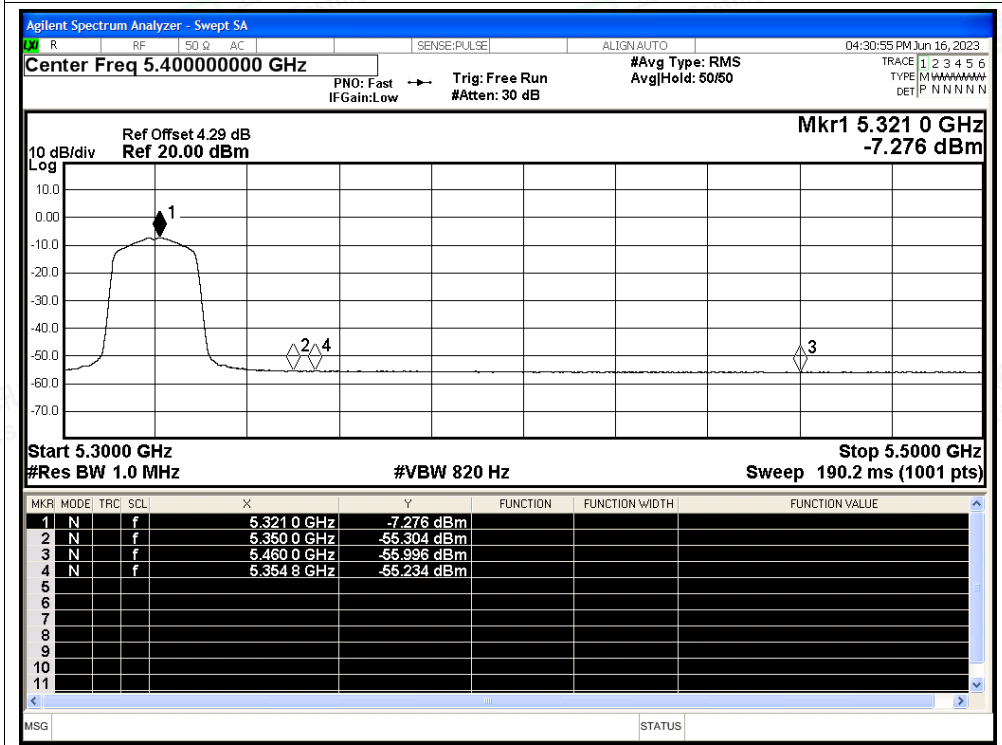




Restrict Band NVNT n20 5320MHz Ant1 Peak

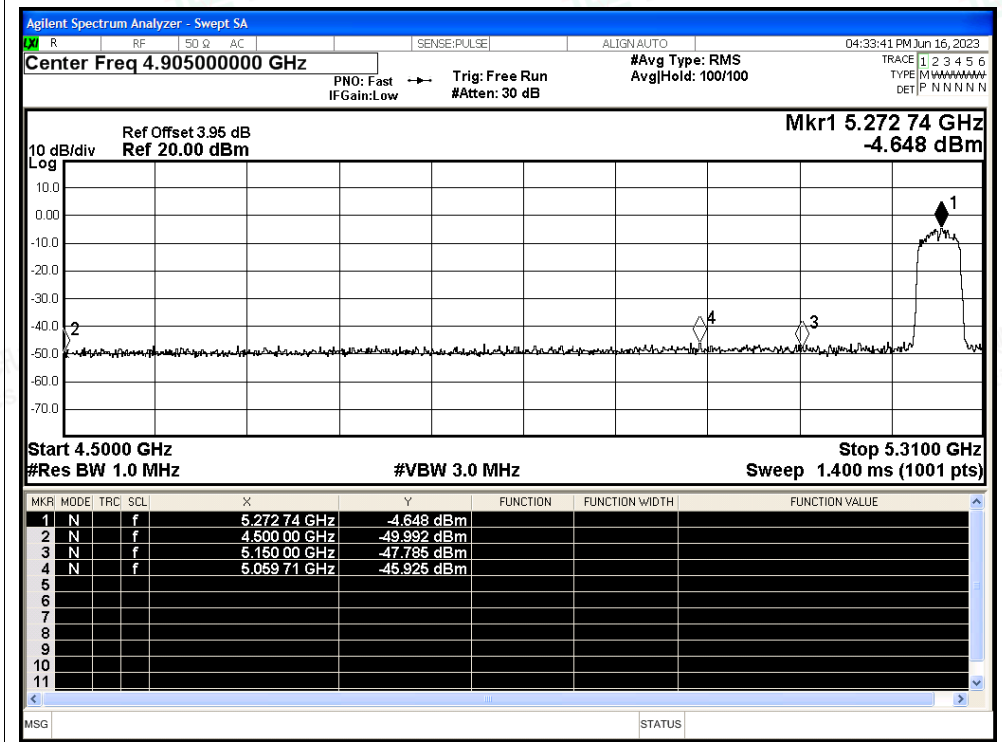


Restrict Band NVNT n20 5320MHz Ant1 Average

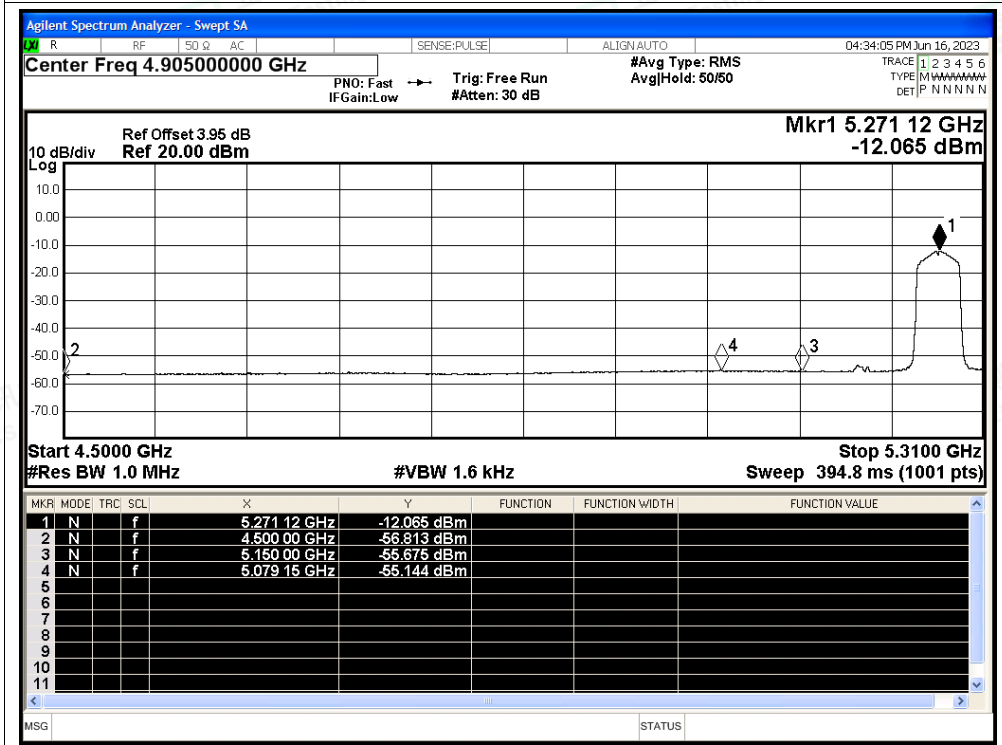




Restrict Band NVNT n40 5270MHz Ant1 Peak

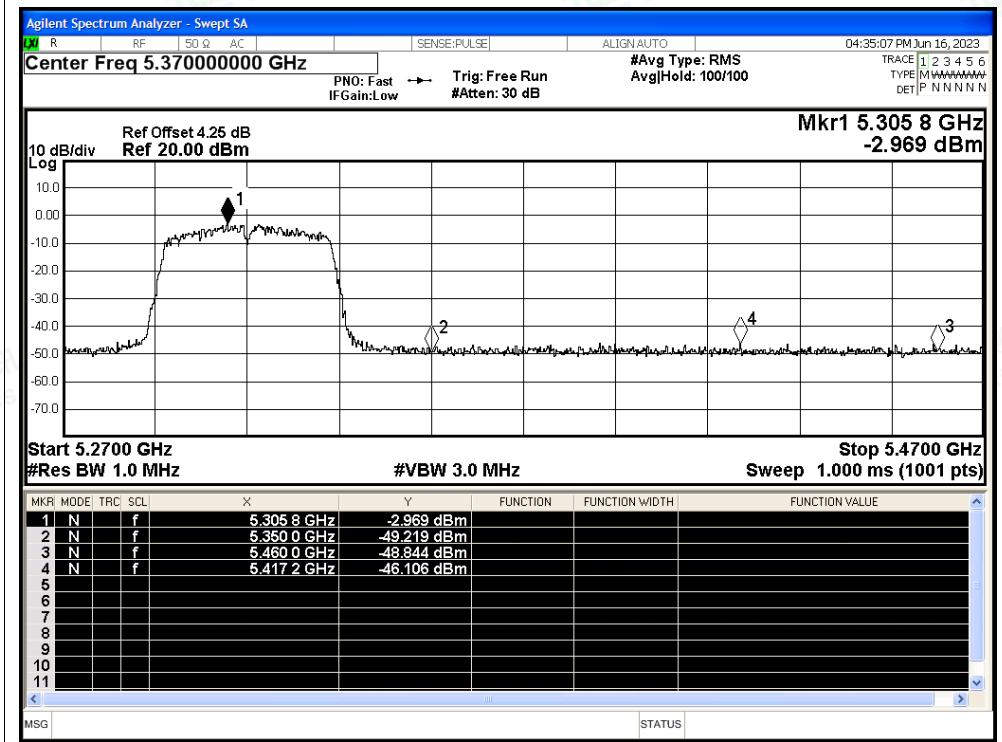


Restrict Band NVNT n40 5270MHz Ant1 Average

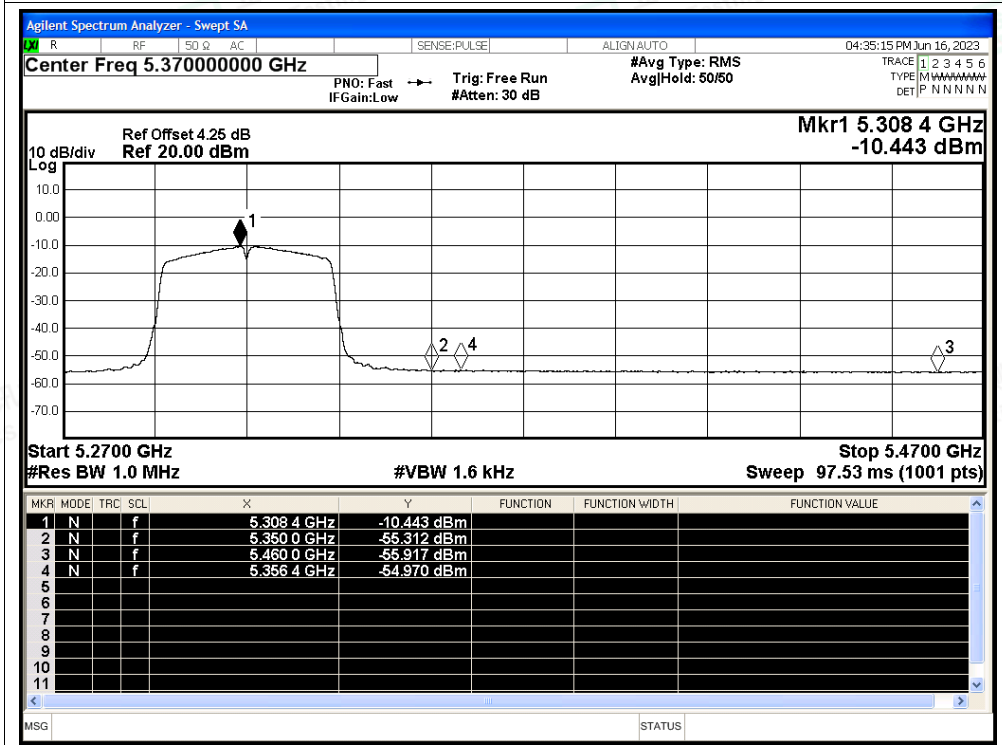




Restrict Band NVNT n40 5310MHz Ant1 Peak

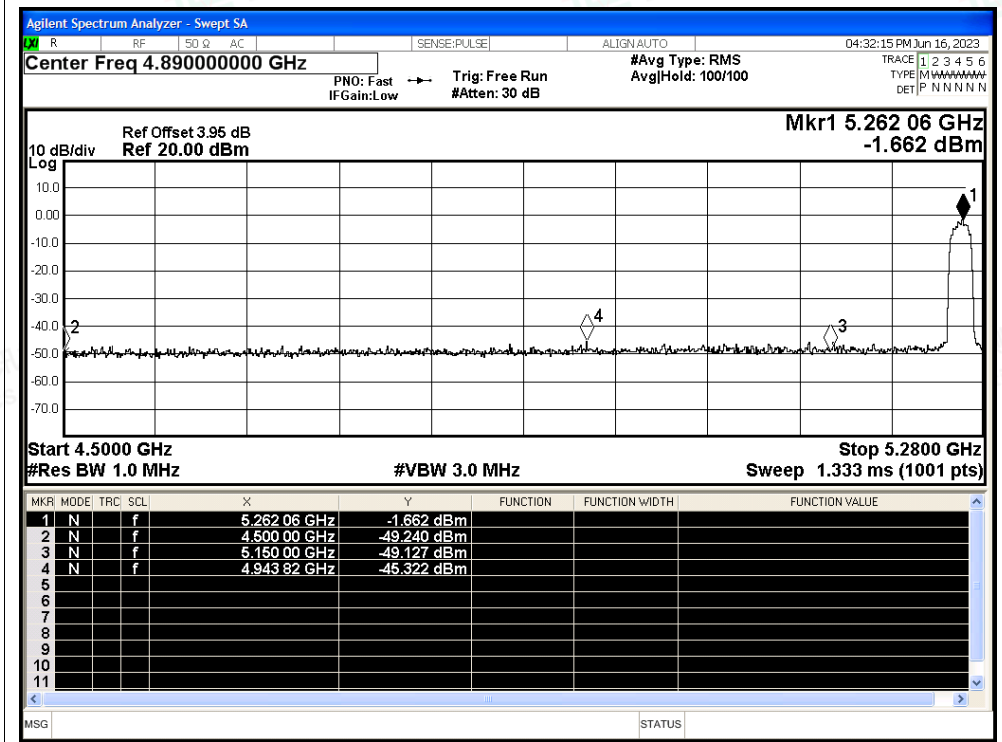


Restrict Band NVNT n40 5310MHz Ant1 Average

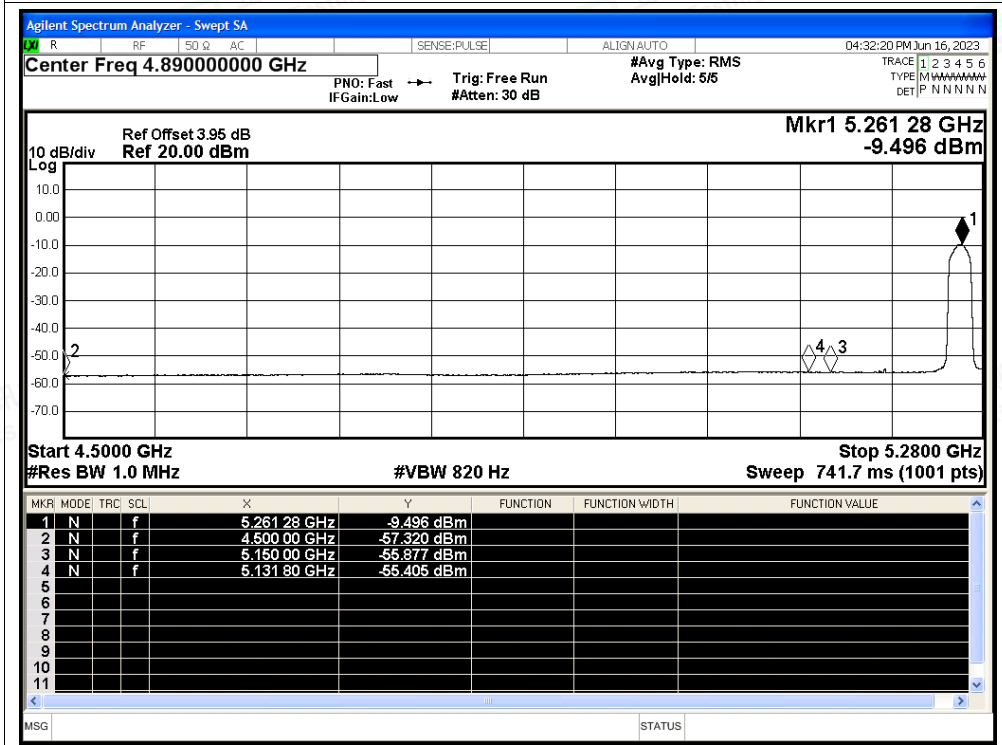




Restrict Band NVNT ac20 5260MHz Ant1 Peak

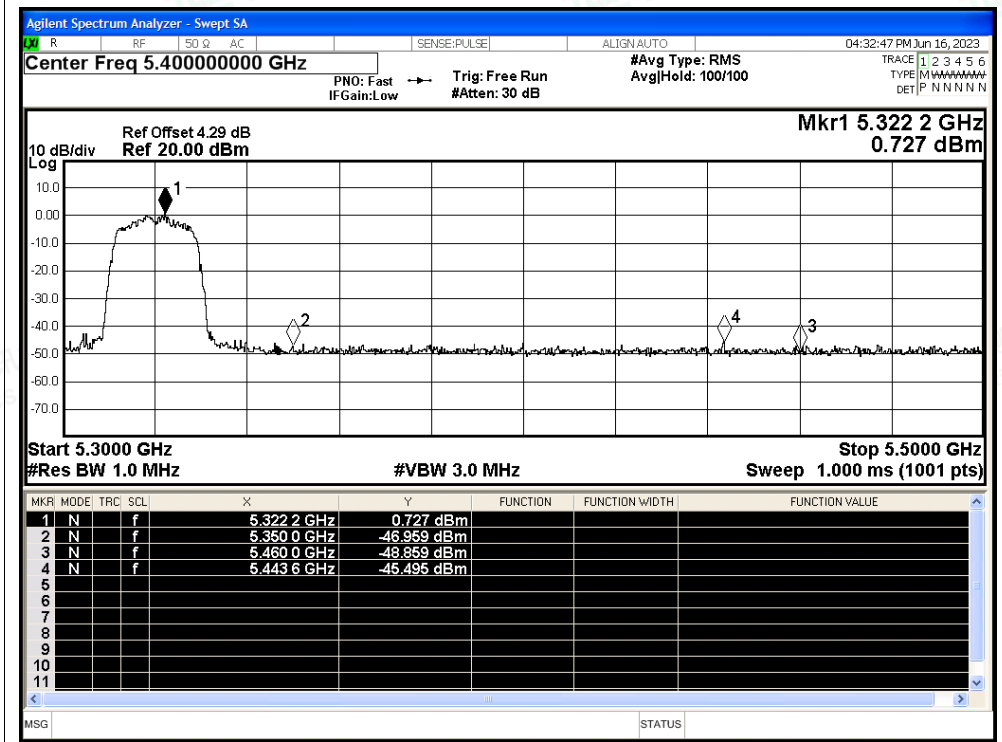


Restrict Band NVNT ac20 5260MHz Ant1 Average

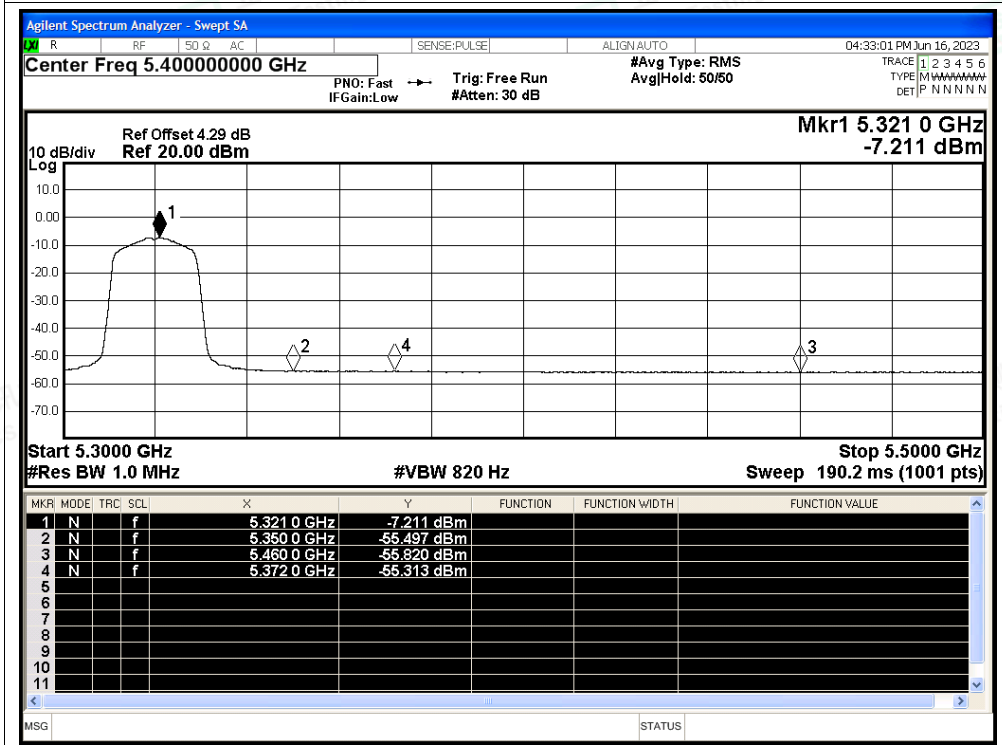




Restrict Band NVNT ac20 5320MHz Ant1 Peak

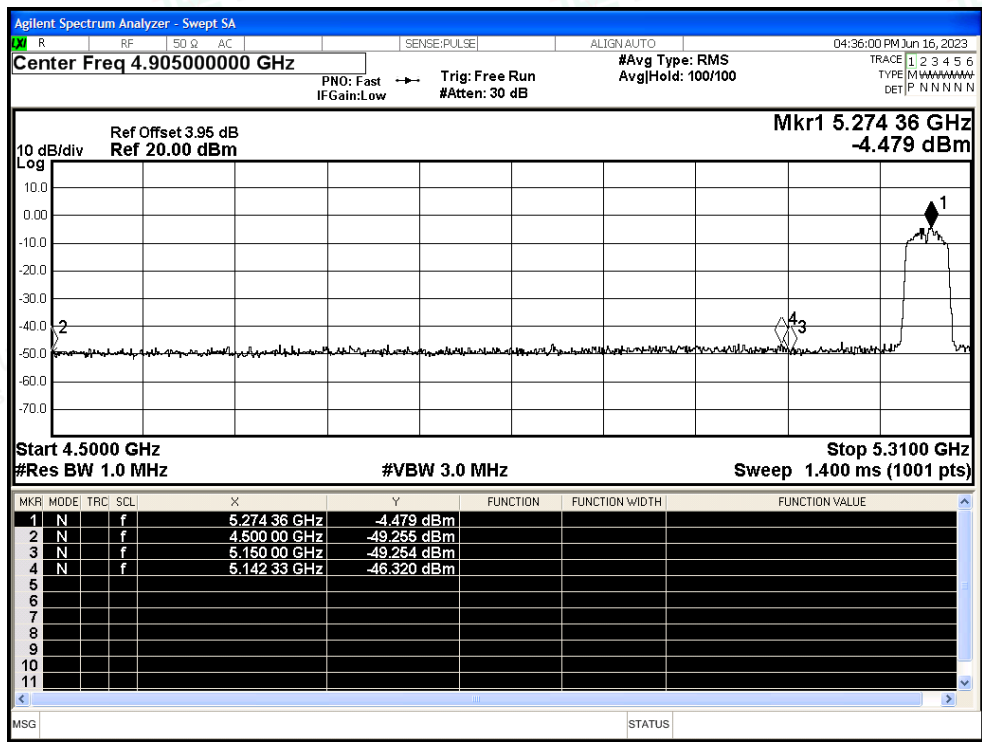


Restrict Band NVNT ac20 5320MHz Ant1 Average

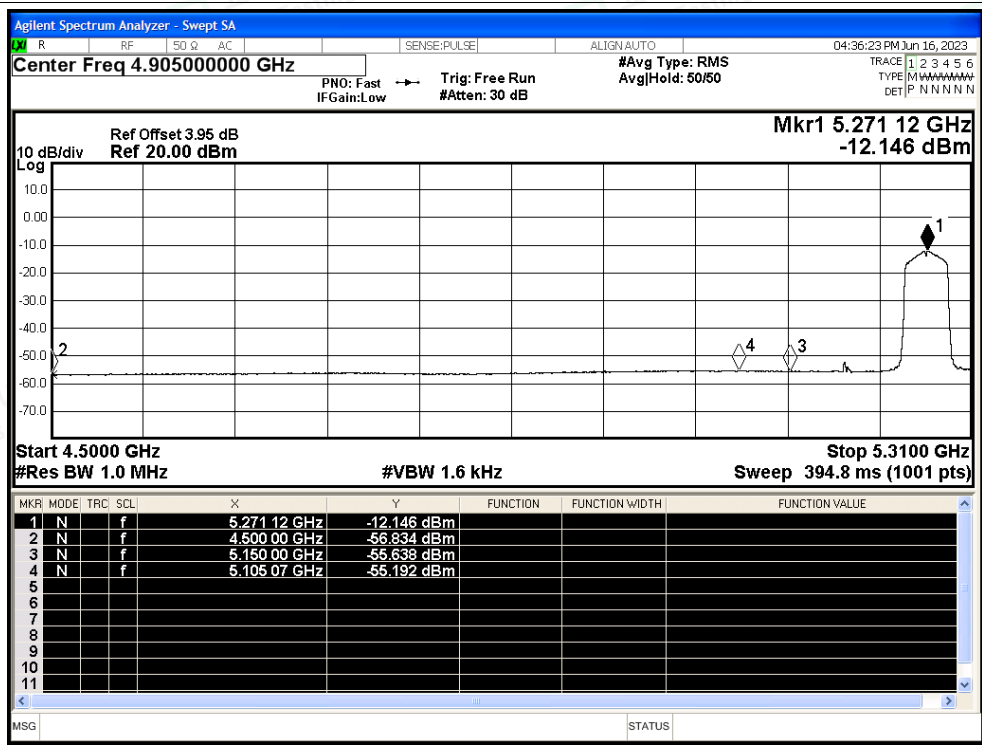




Restrict Band NVNT ac40 5270MHz Ant1 Peak

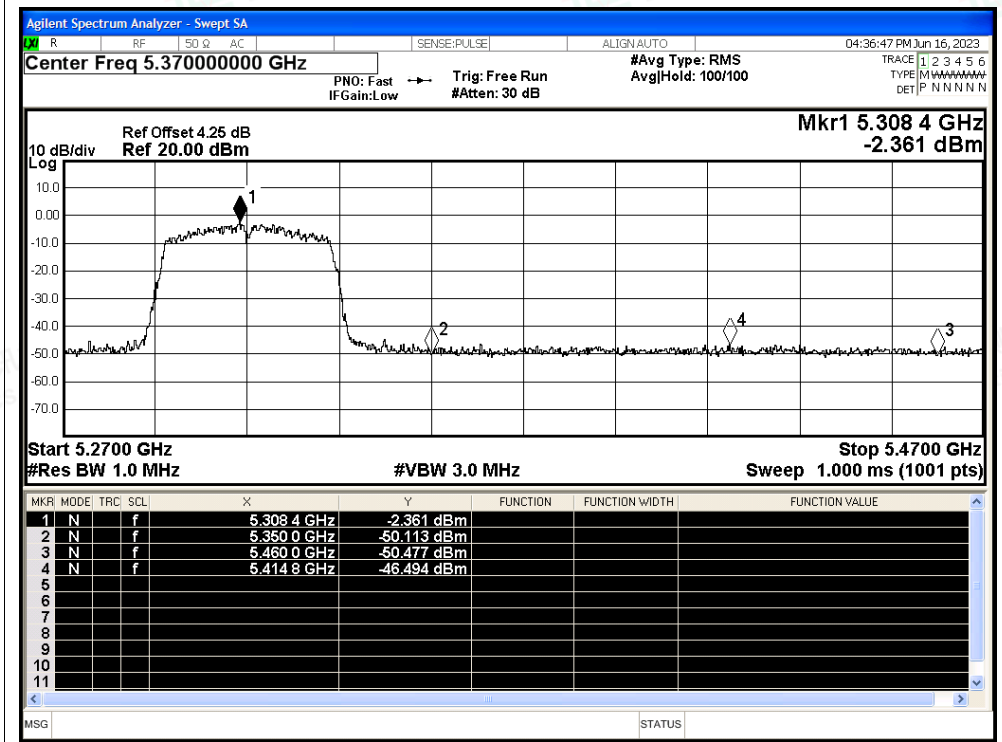


Restrict Band NVNT ac40 5270MHz Ant1 Average

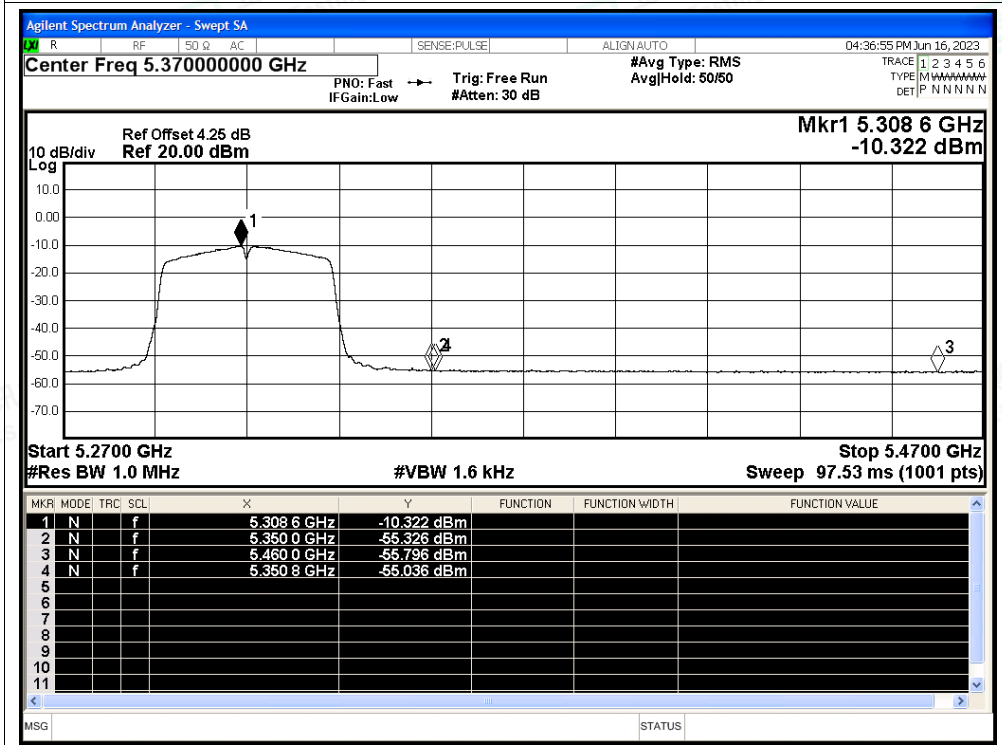




Restrict Band NVNT ac40 5310MHz Ant1 Peak

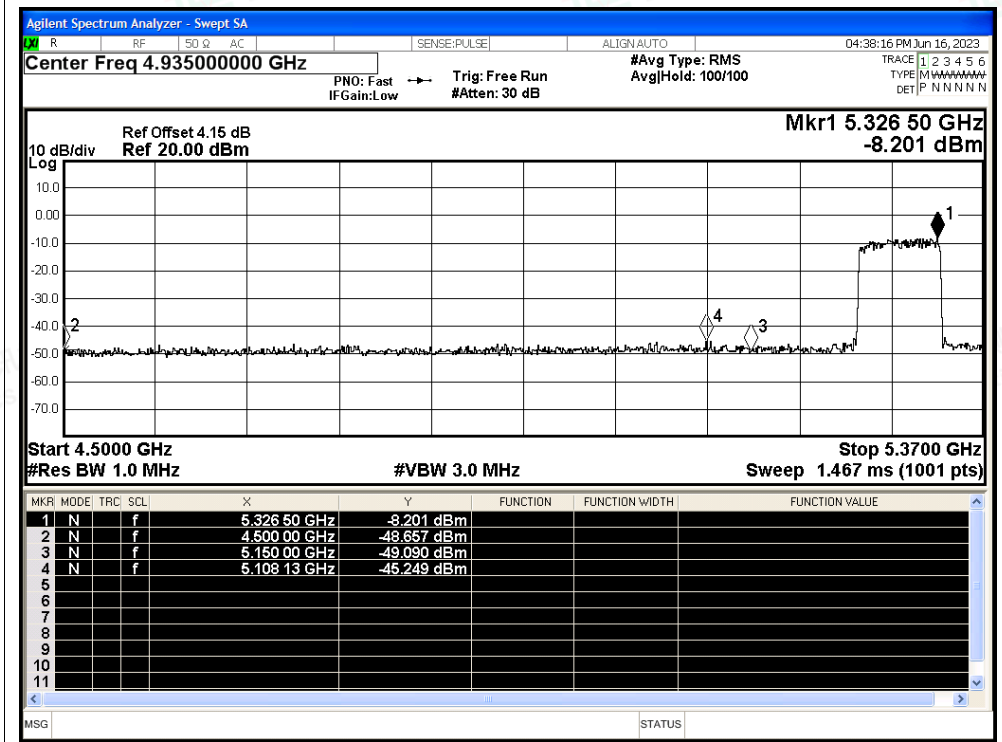


Restrict Band NVNT ac40 5310MHz Ant1 Average

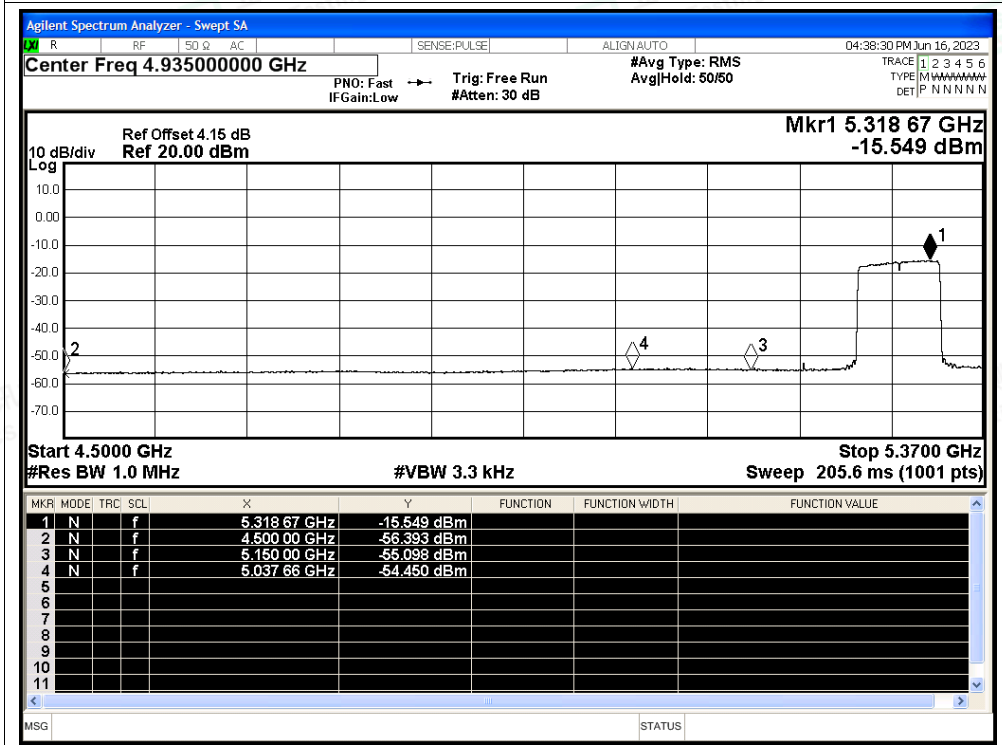




Restrict Band NVNT ac80 5290MHz Ant1 Peak

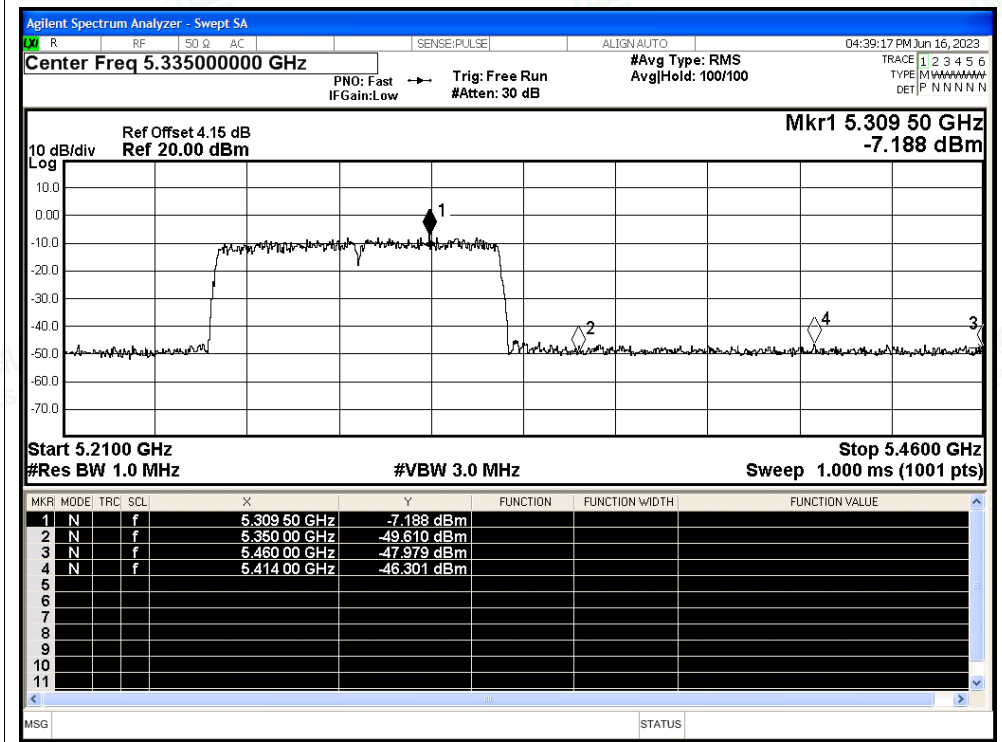


Restrict Band NVNT ac80 5290MHz Ant1 Average

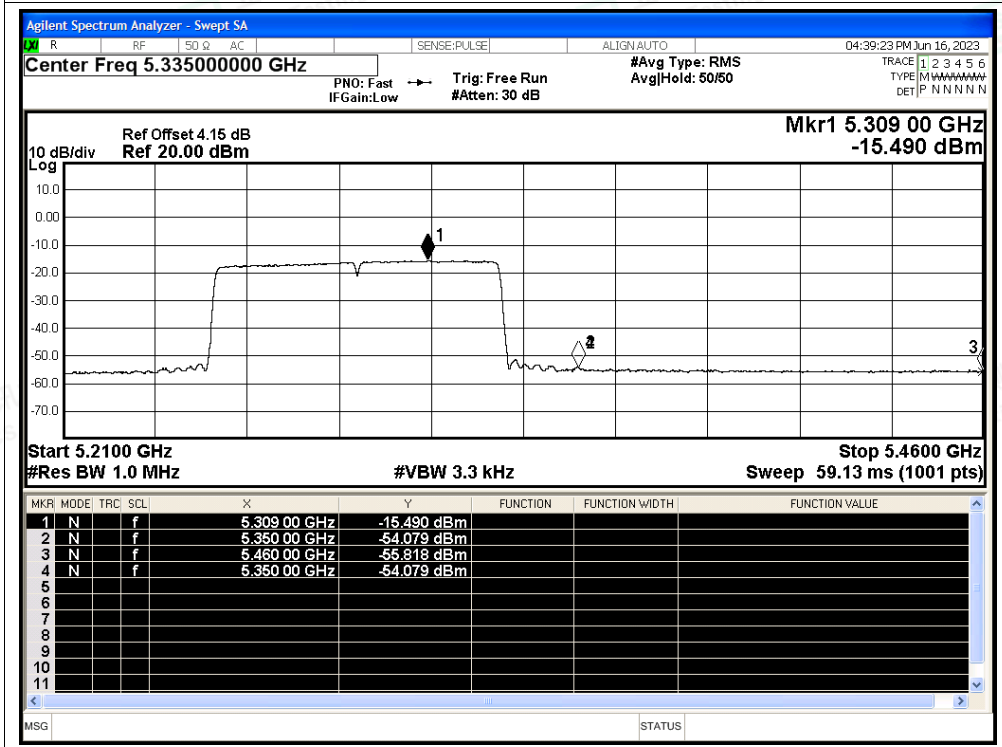




Restrict Band NVNT ac80 5290MHz Ant1 Peak



Restrict Band NVNT ac80 5290MHz Ant1 Average





C.5 Frequency Stability

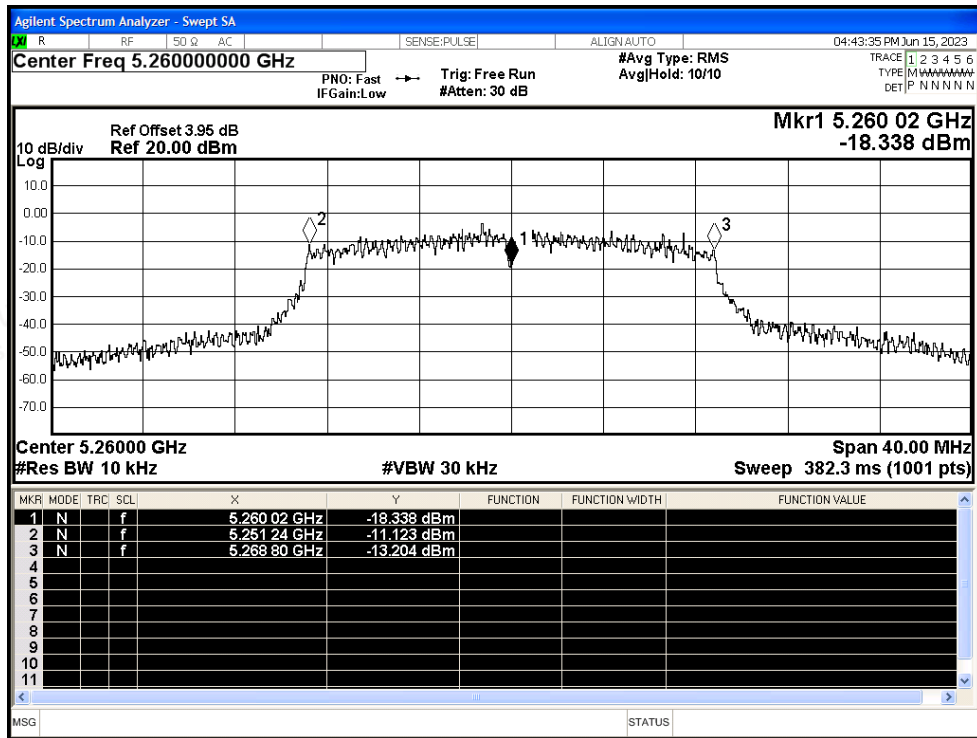
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5260	Ant1	5260.02	20000	3.8	25	Pass
NVNT	ac20	5300	Ant1	5300	0	0	25	Pass
NVNT	ac20	5320	Ant1	5320.02	20000	3.76	25	Pass
NVNT	ac40	5270	Ant1	5270	0	0	25	Pass
NVNT	ac40	5310	Ant1	5310	0	0	25	Pass
NVNT	ac80	5290	Ant1	5290	0	0	25	Pass



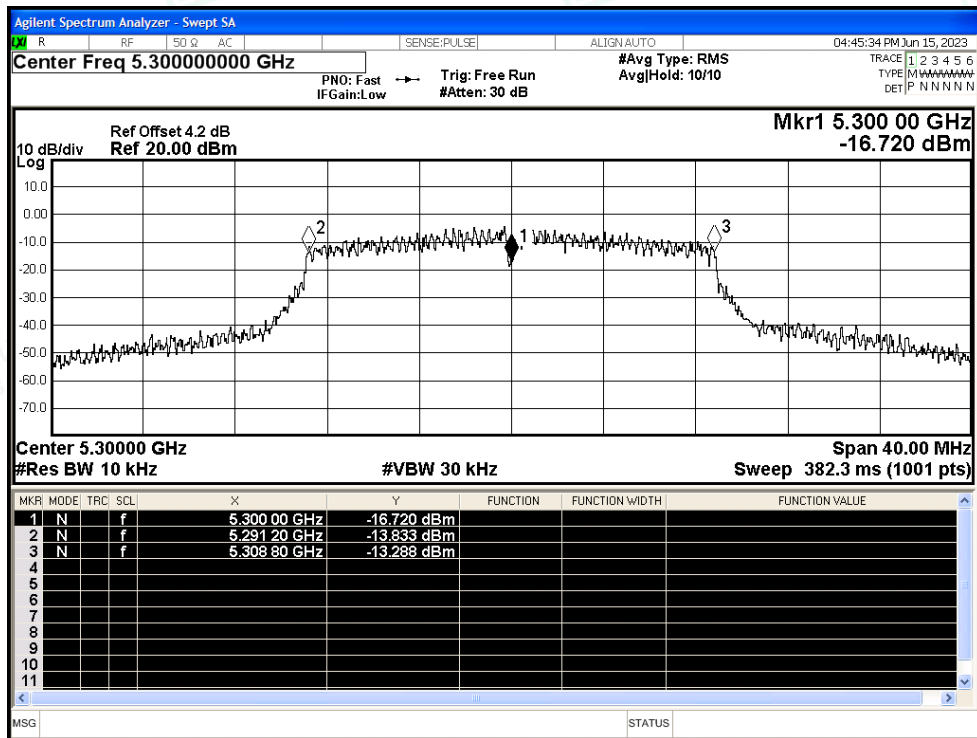


Test Graphs

Freq. Stability NVNT ac20 5260MHz Ant1

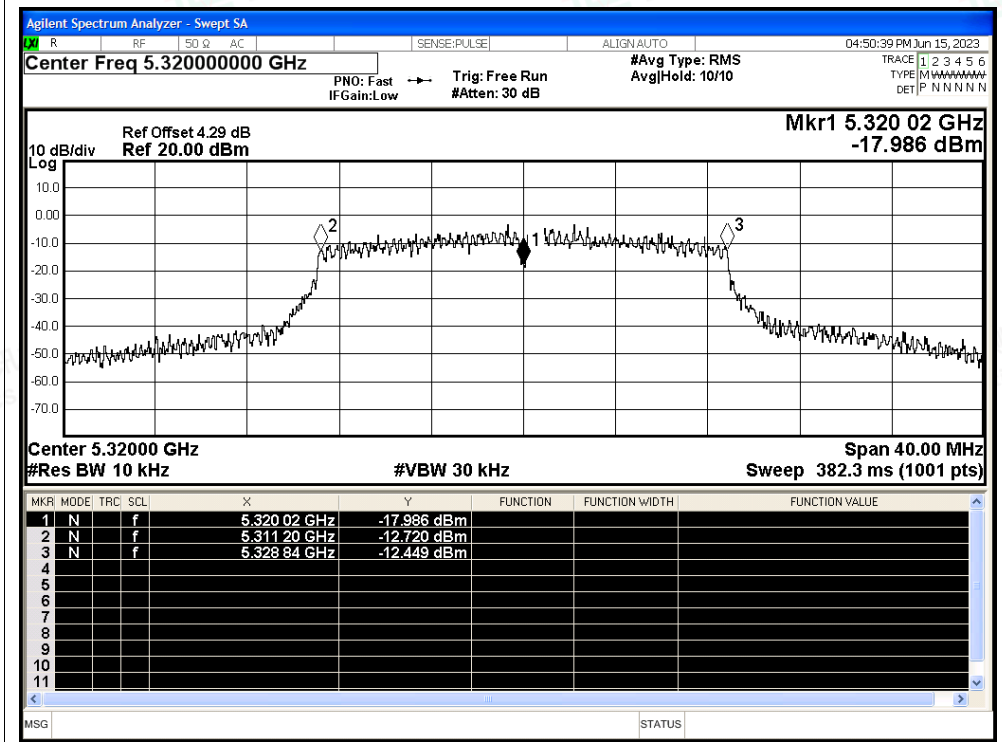


Freq. Stability NVNT ac20 5300MHz Ant1

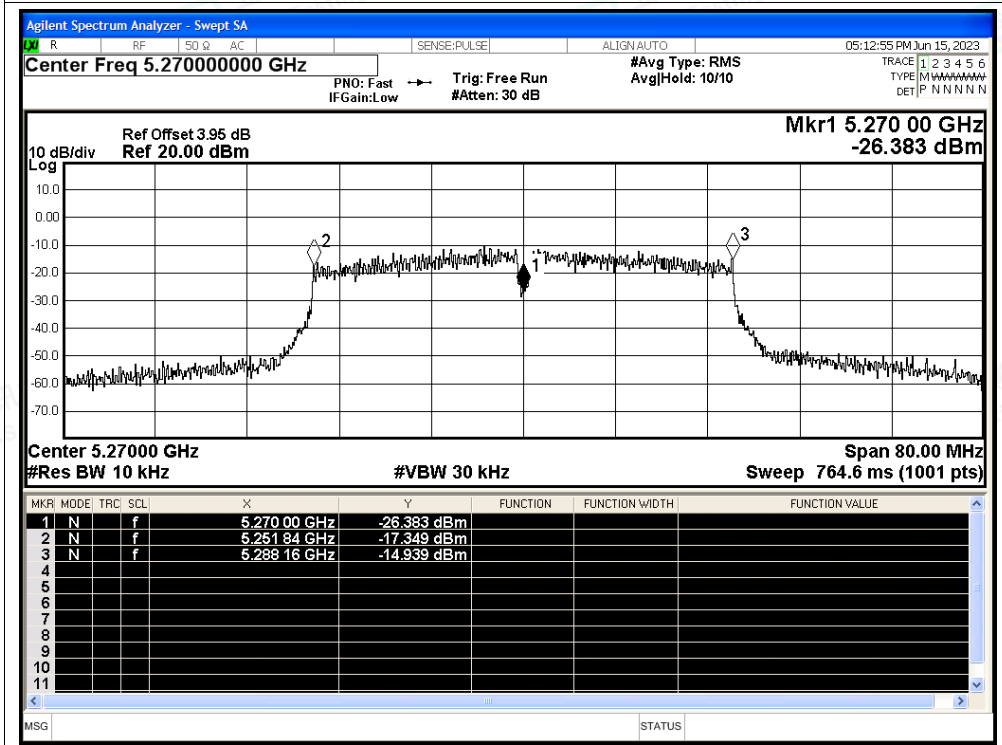




Freq. Stability NVNT ac20 5320MHz Ant1

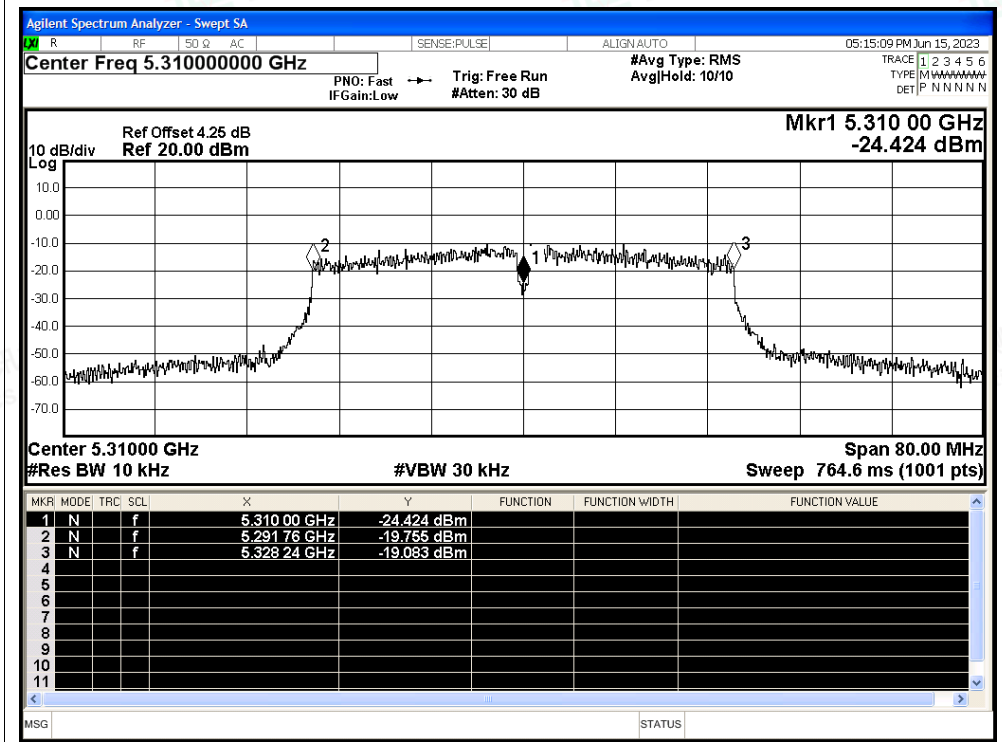


Freq. Stability NVNT ac40 5270MHz Ant1

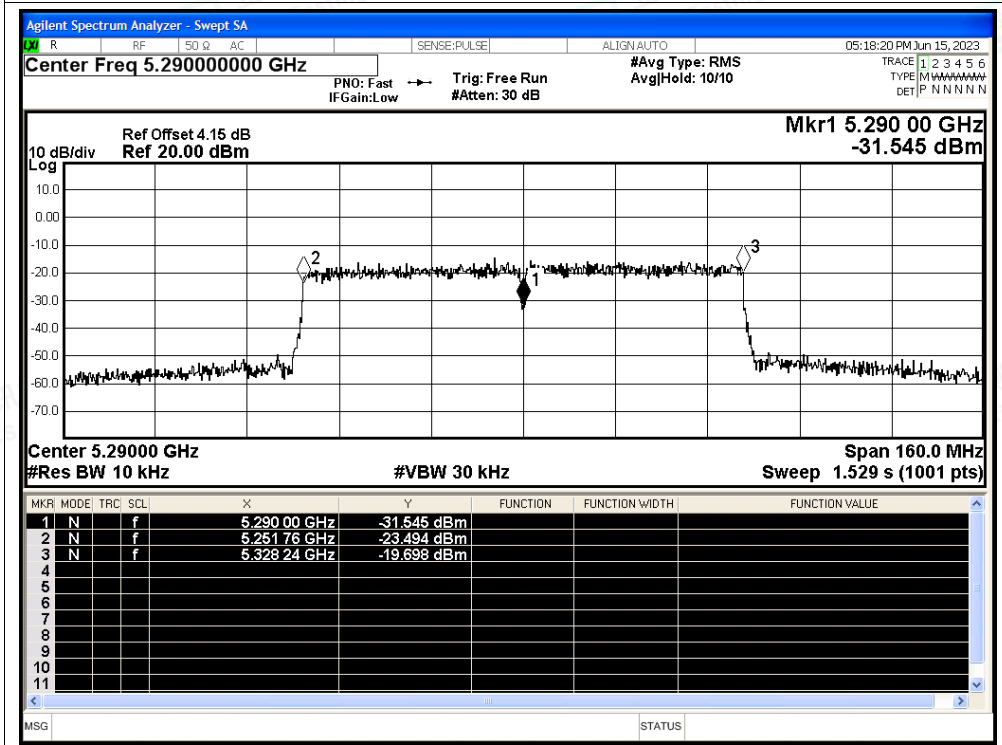




Freq. Stability NVNT ac40 5310MHz Ant1



Freq. Stability NVNT ac80 5290MHz Ant1





C.6 Duty Cycle

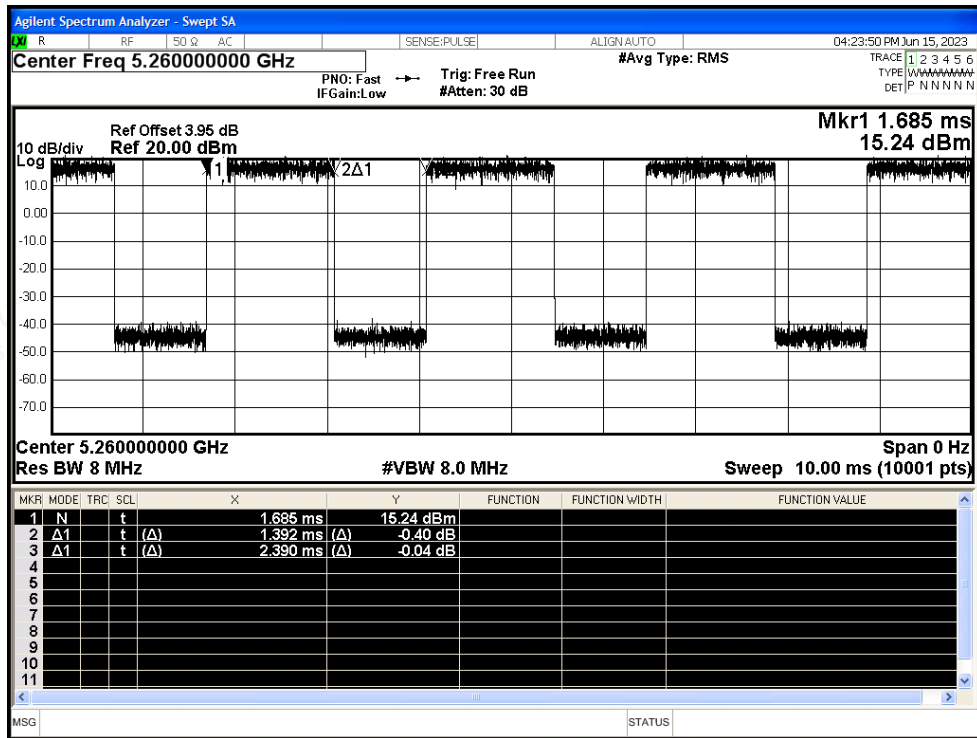
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	58.24	2.35	0.72
NVNT	a	5300	Ant1	58.24	2.35	0.72
NVNT	a	5320	Ant1	58.5	2.33	0.72
NVNT	n20	5260	Ant1	55.31	2.57	0.77
NVNT	n20	5300	Ant1	53.67	2.7	0.77
NVNT	n20	5320	Ant1	54.89	2.61	0.77
NVNT	n40	5270	Ant1	37.69	4.24	1.55
NVNT	n40	5310	Ant1	37.57	4.25	1.55
NVNT	ac20	5260	Ant1	55.64	2.55	0.76
NVNT	ac20	5300	Ant1	56.99	2.44	0.76
NVNT	ac20	5320	Ant1	56.76	2.46	0.76
NVNT	ac40	5270	Ant1	37.92	4.21	1.53
NVNT	ac40	5310	Ant1	39.52	4.03	1.53
NVNT	ac80	5290	Ant1	23.26	6.33	3.09



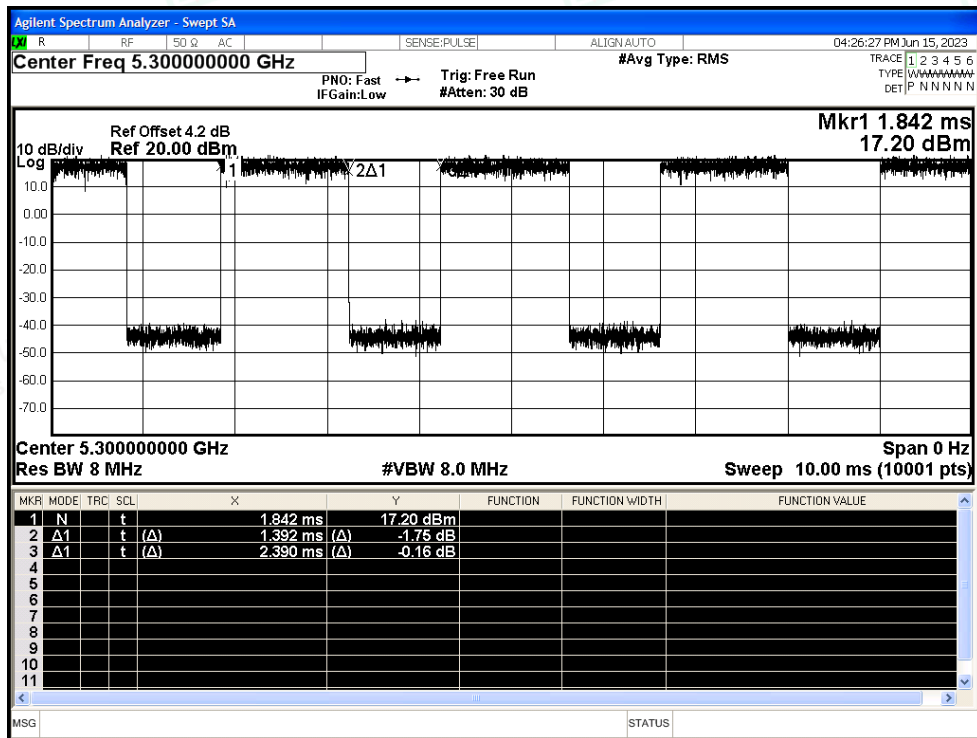


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1

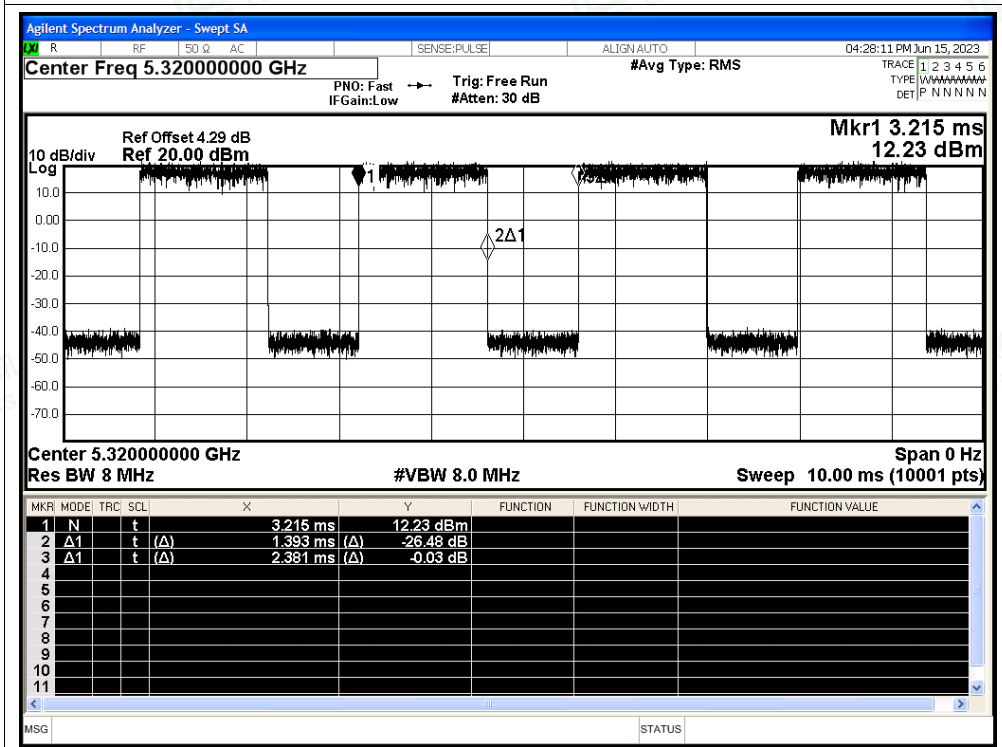


Duty Cycle NVNT a 5300MHz Ant1

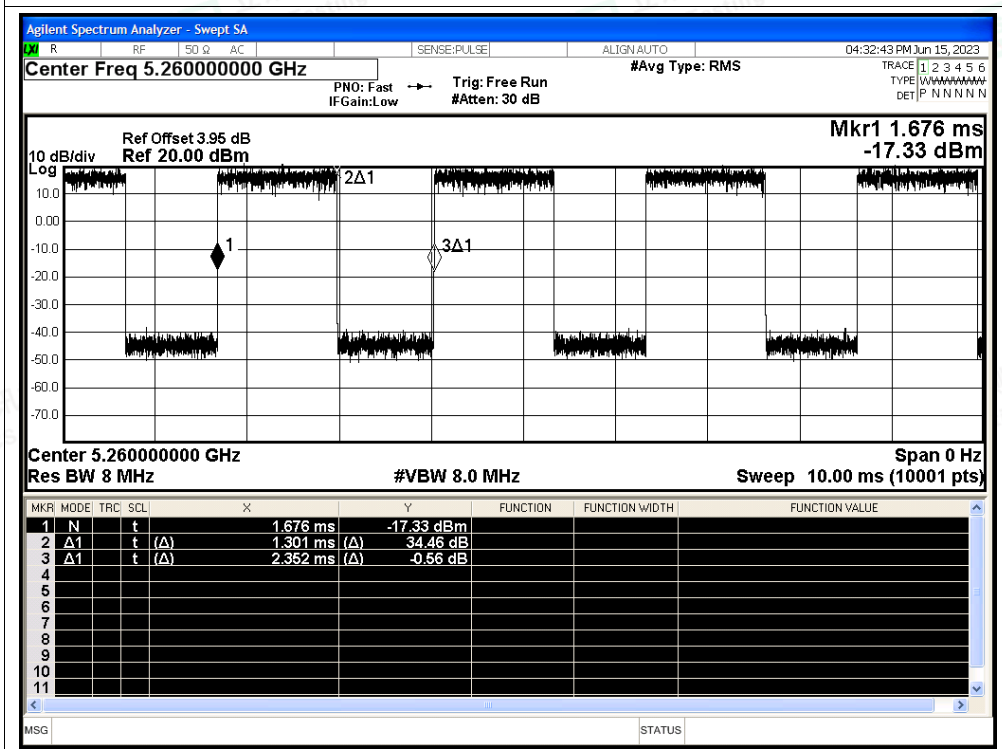




Duty Cycle NVNT a 5320MHz Ant1

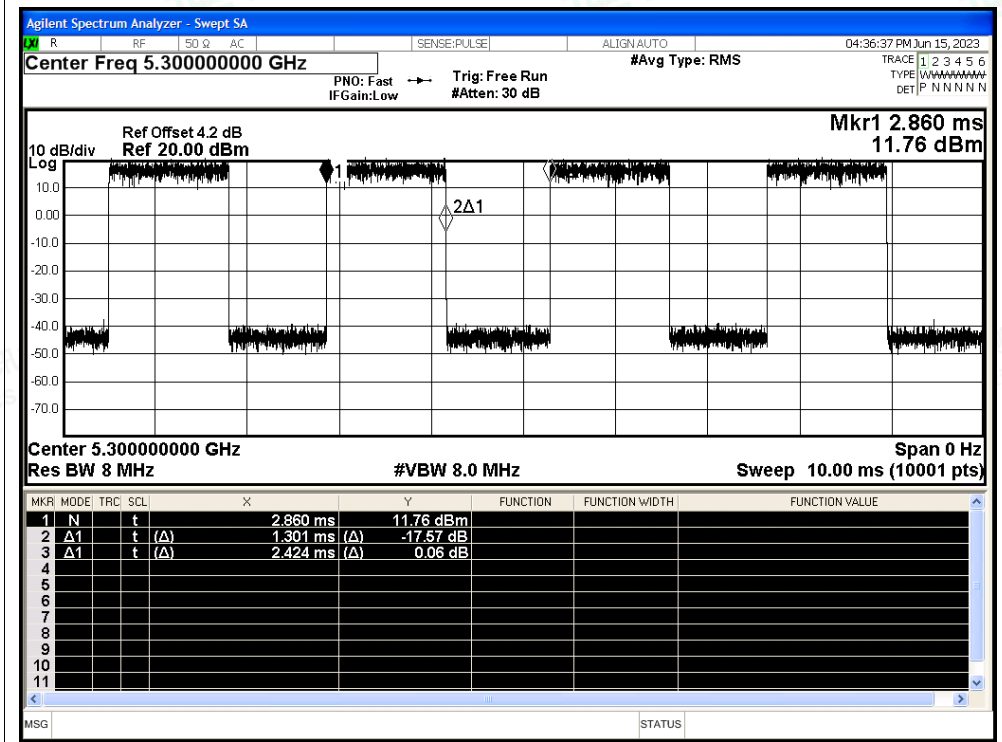


Duty Cycle NVNT n20 5260MHz Ant1

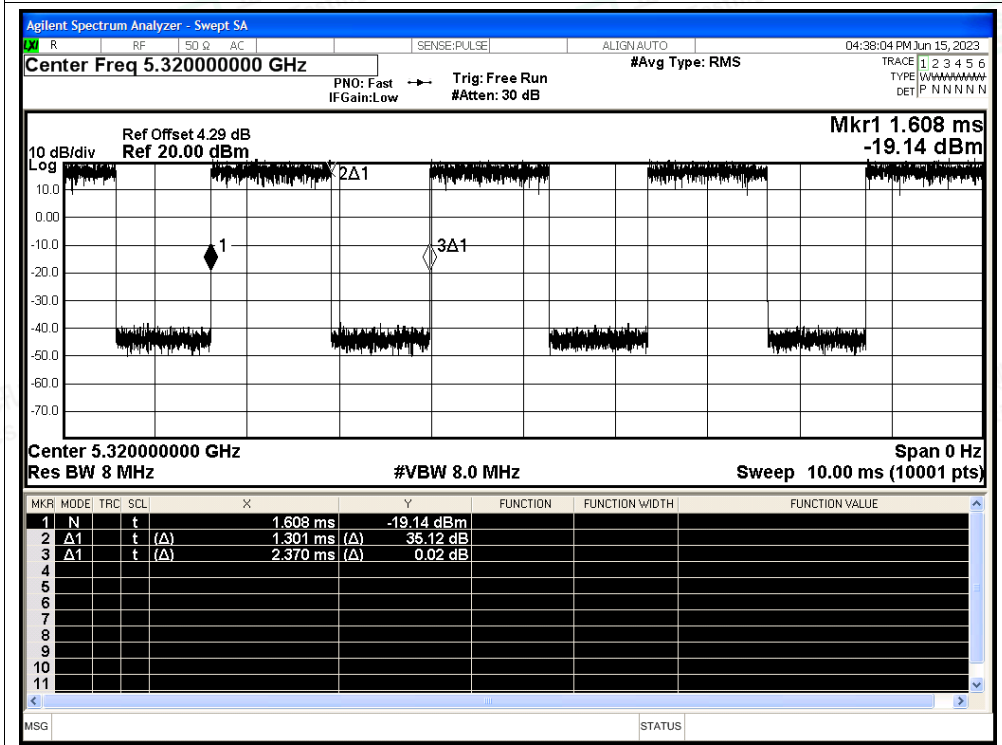




Duty Cycle NVNT n20 5300MHz Ant1

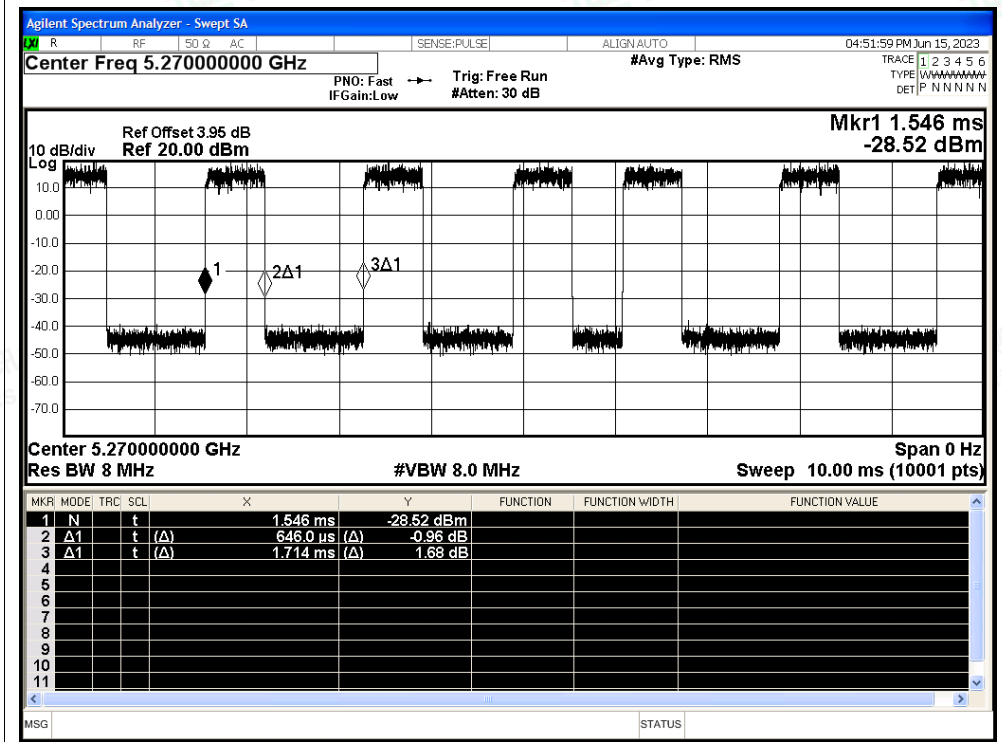


Duty Cycle NVNT n20 5320MHz Ant1

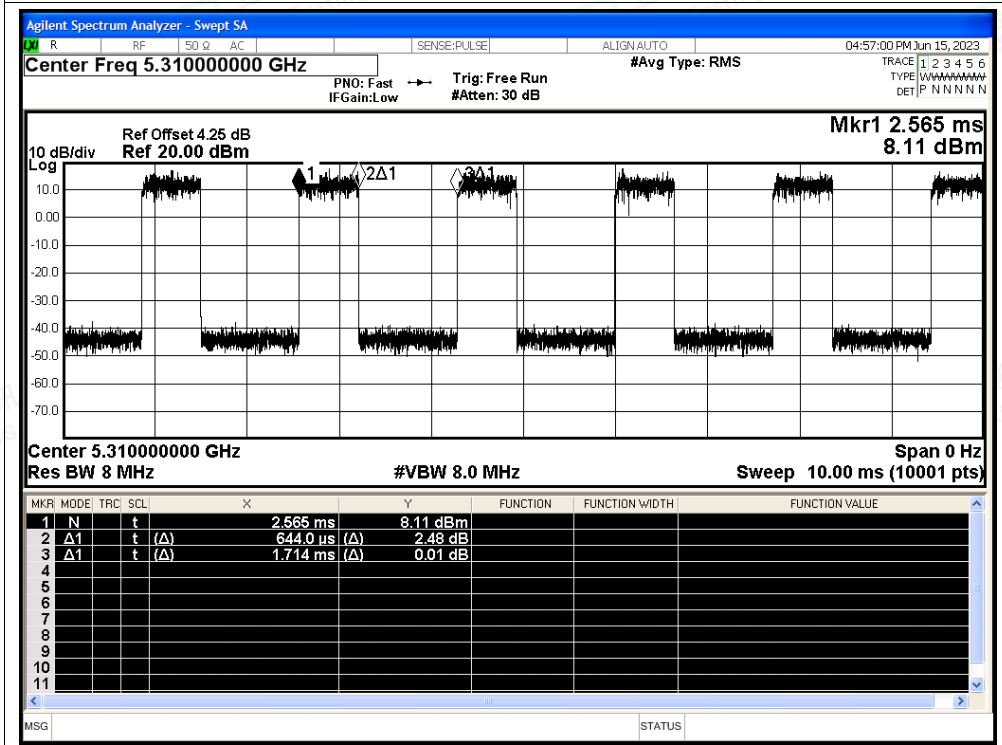




Duty Cycle NVNT n40 5270MHz Ant1

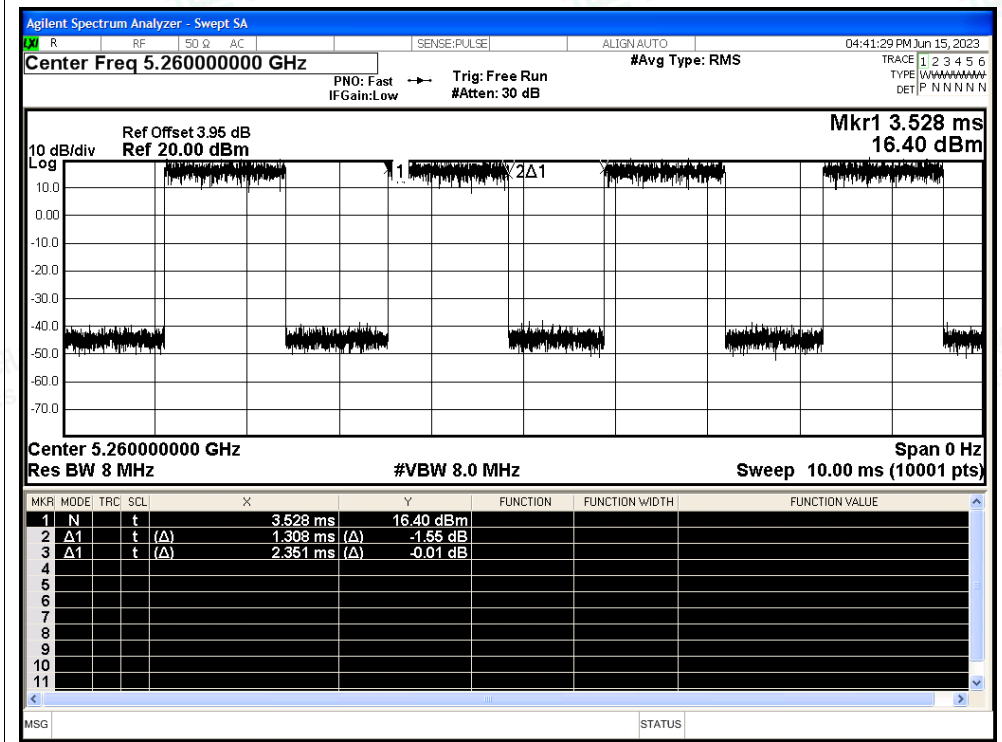


Duty Cycle NVNT n40 5310MHz Ant1

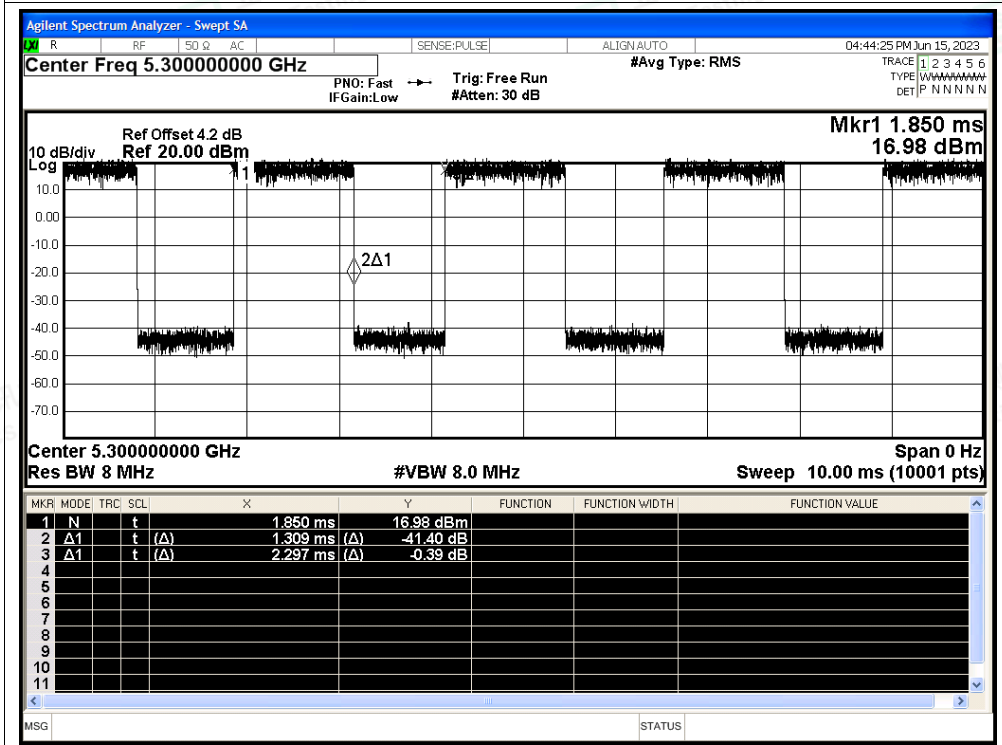




Duty Cycle NVNT ac20 5260MHz Ant1

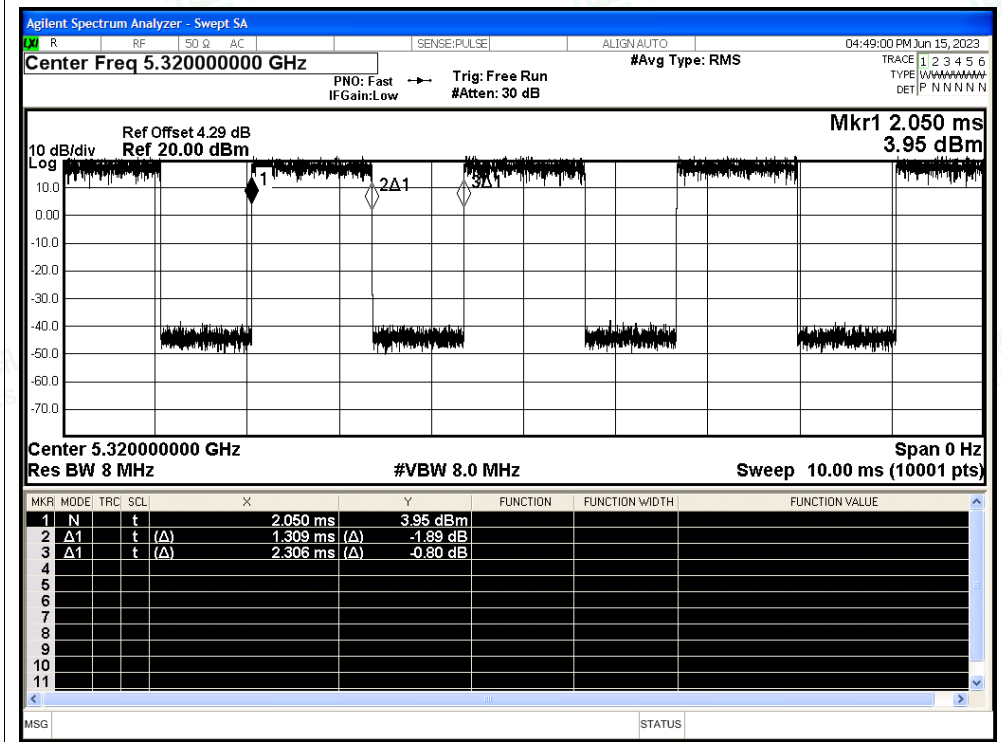


Duty Cycle NVNT ac20 5300MHz Ant1

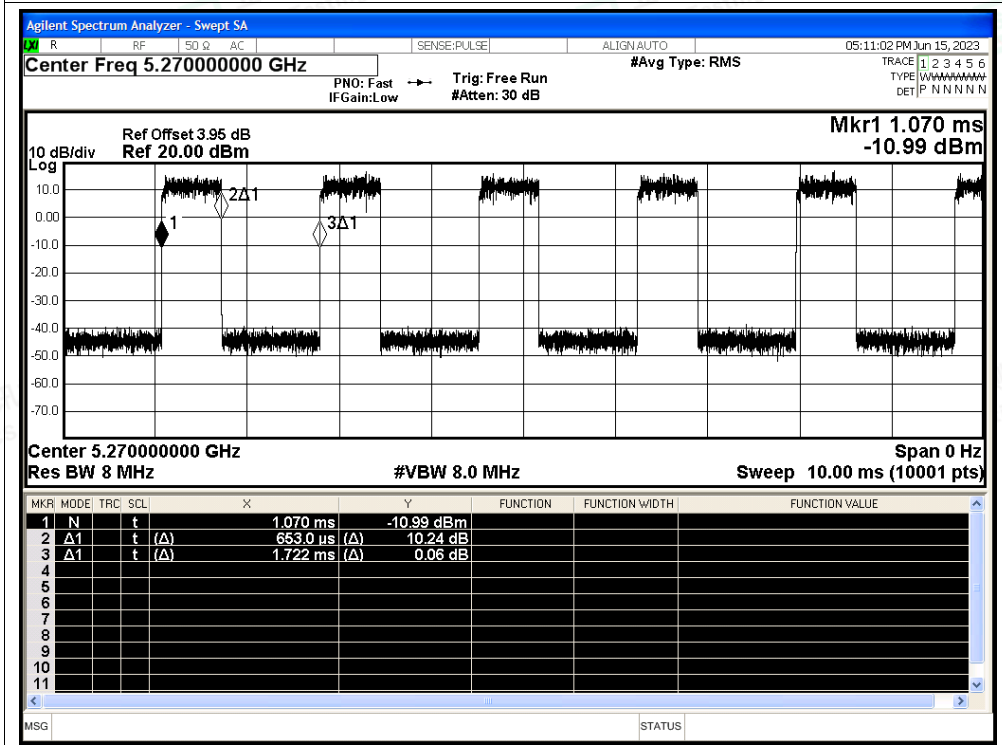




Duty Cycle NVNT ac20 5320MHz Ant1

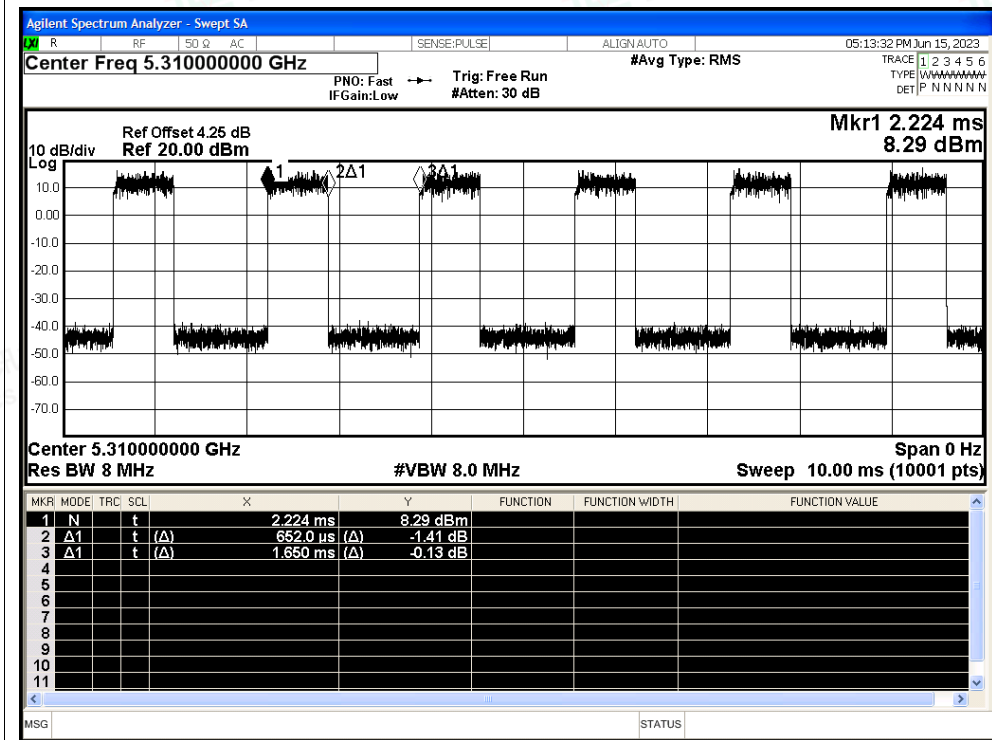


Duty Cycle NVNT ac40 5270MHz Ant1





Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1

