

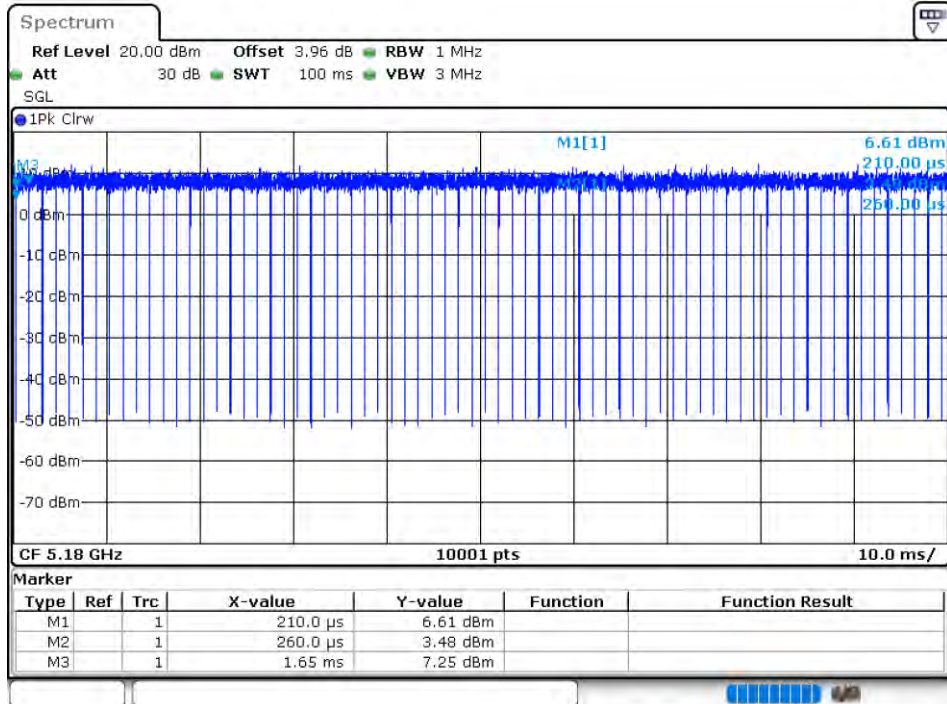
5.2G WIFI

Duty Cycle

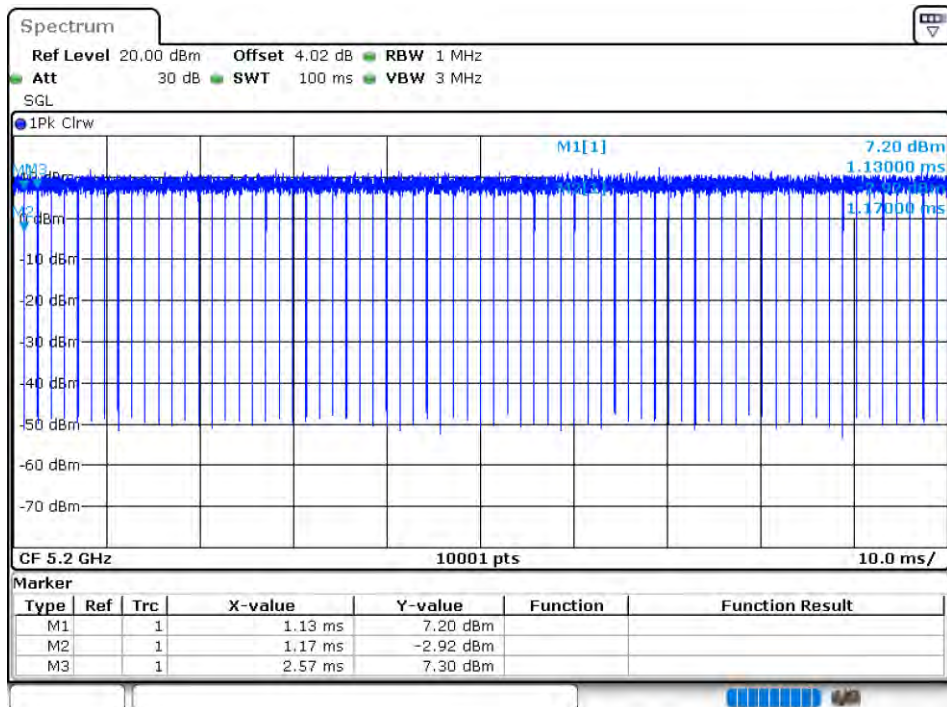
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.63	0.1	0.72
NVNT	a	5200	Ant1	97.7	0.1	0.71
NVNT	a	5240	Ant1	97.65	0.1	0.72
NVNT	n20	5180	Ant1	97.48	0.11	0.77
NVNT	n20	5200	Ant1	97.51	0.11	0.77
NVNT	n20	5240	Ant1	97.49	0.11	0.77
NVNT	n40	5190	Ant1	95.2	0.21	1.54
NVNT	n40	5230	Ant1	95.19	0.21	1.54
NVNT	ac20	5180	Ant1	97.54	0.11	0.76
NVNT	ac20	5200	Ant1	97.51	0.11	0.76
NVNT	ac20	5240	Ant1	97.51	0.11	0.76
NVNT	ac40	5190	Ant1	95.24	0.21	1.54
NVNT	ac40	5230	Ant1	95.22	0.21	1.52
NVNT	ac80	5210	Ant1	90.79	0.42	3.12

Test Graphs

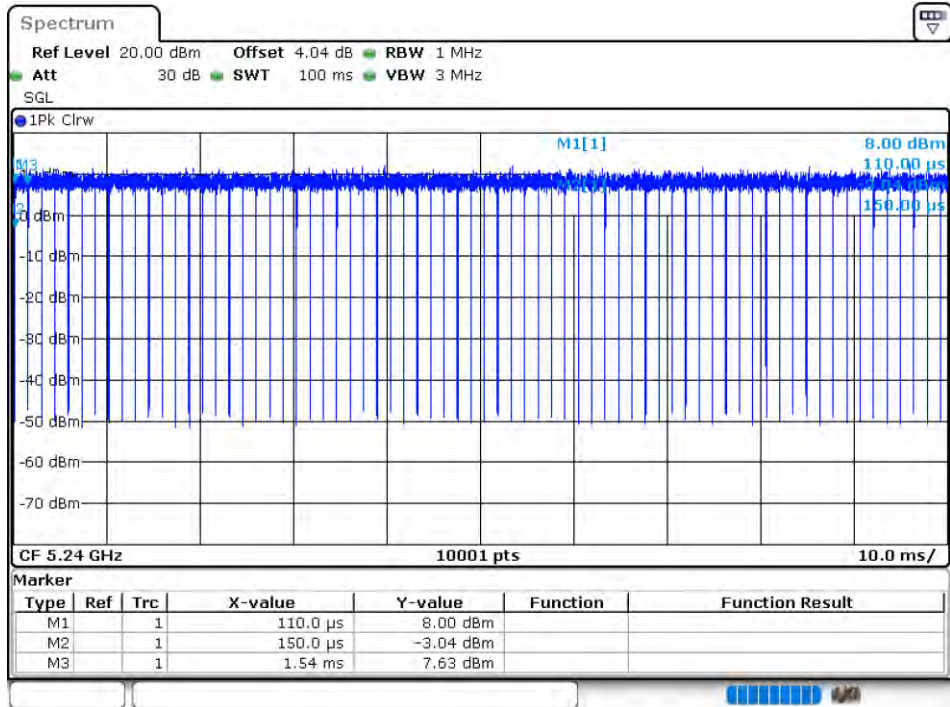
Duty Cycle NVNT a 5180MHz Ant1



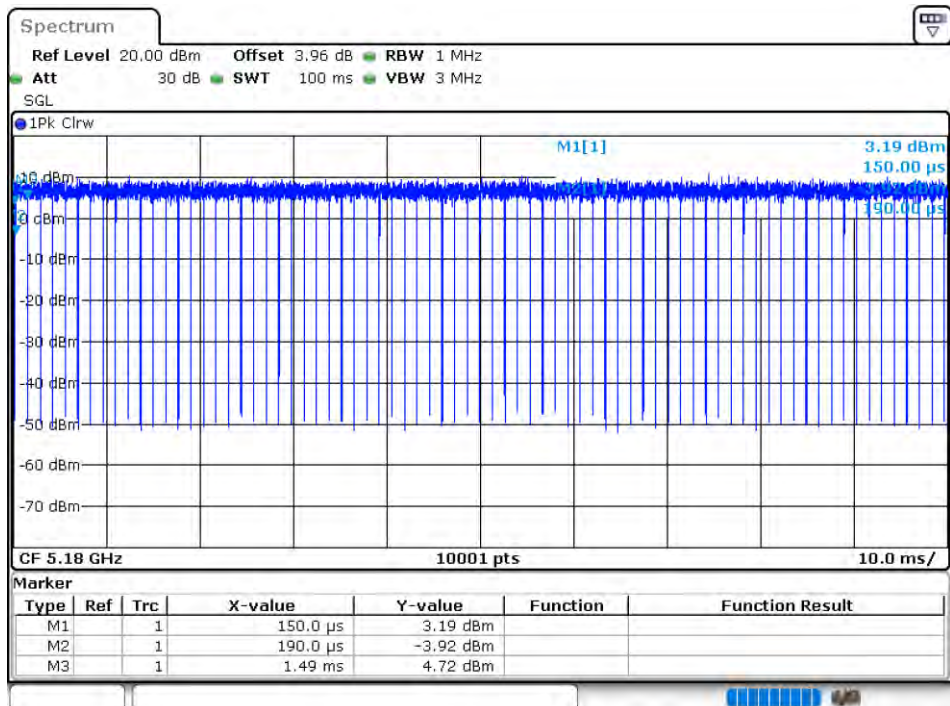
Duty Cycle NVNT a 5200MHz Ant1



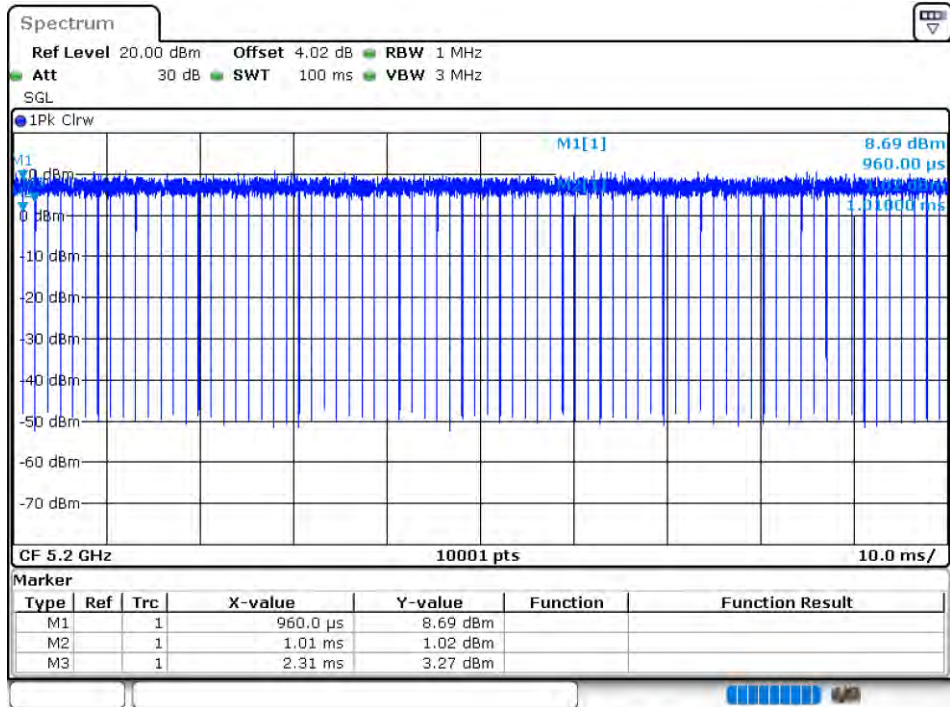
Duty Cycle NVNT a 5240MHz Ant1



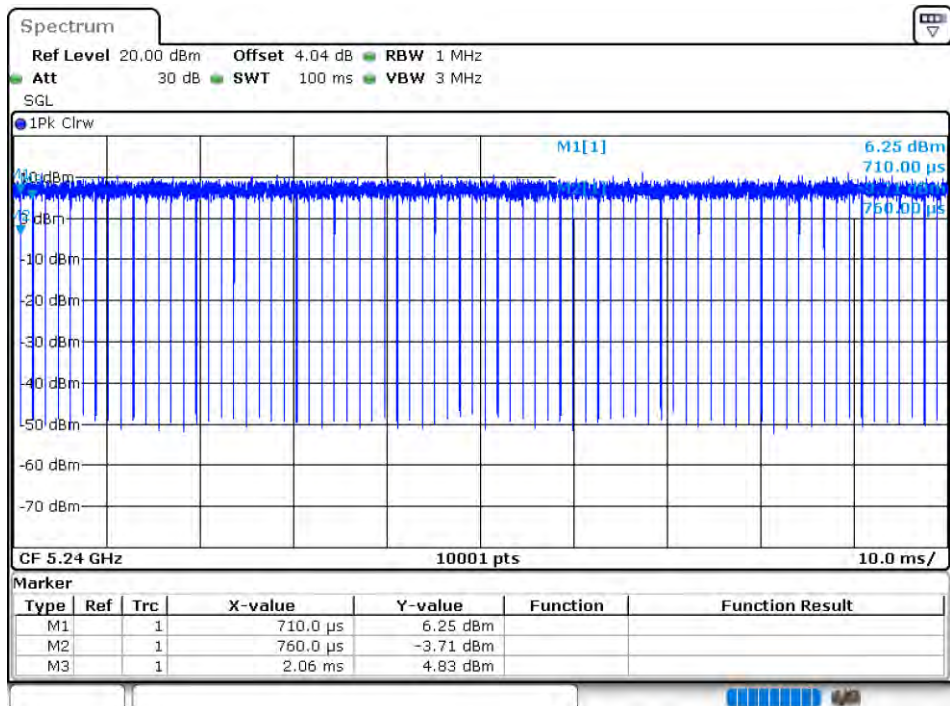
Duty Cycle NVNT n20 5180MHz Ant1



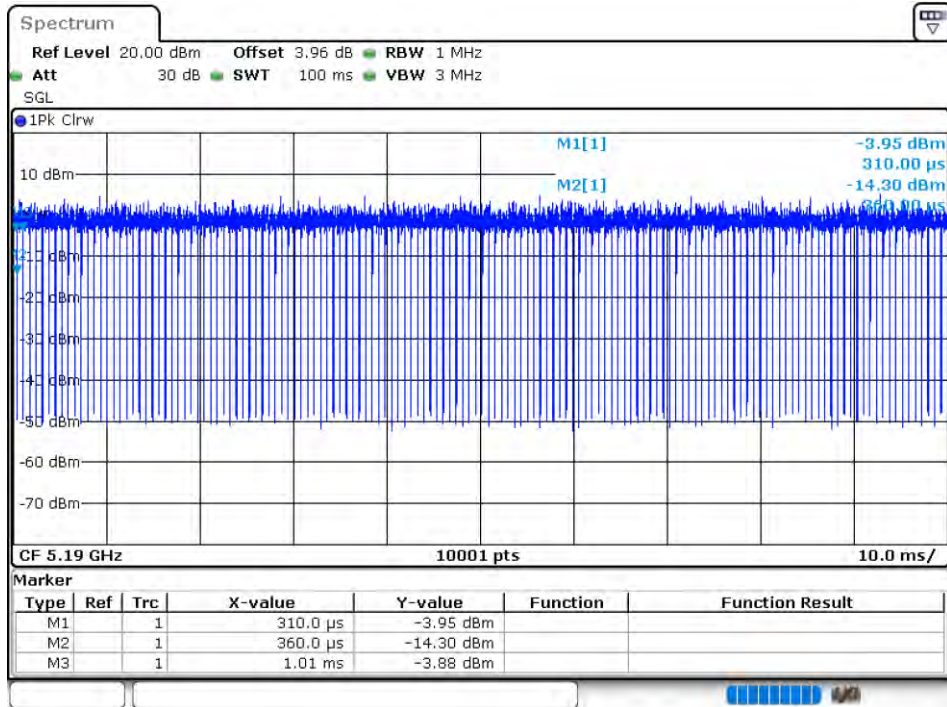
Duty Cycle NVNT n20 5200MHz Ant1



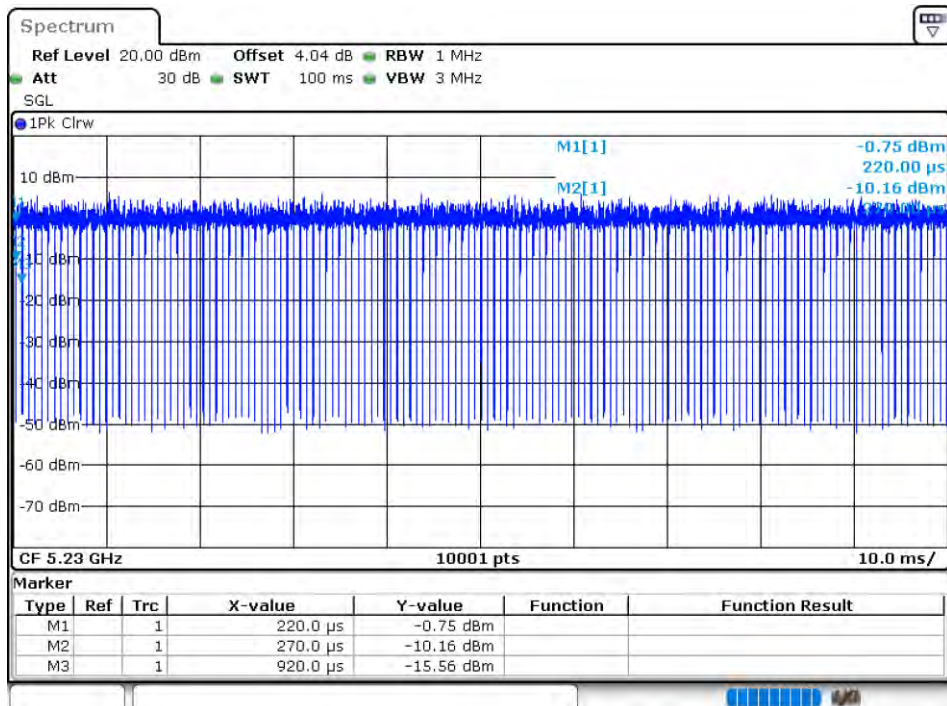
Duty Cycle NVNT n20 5240MHz Ant1



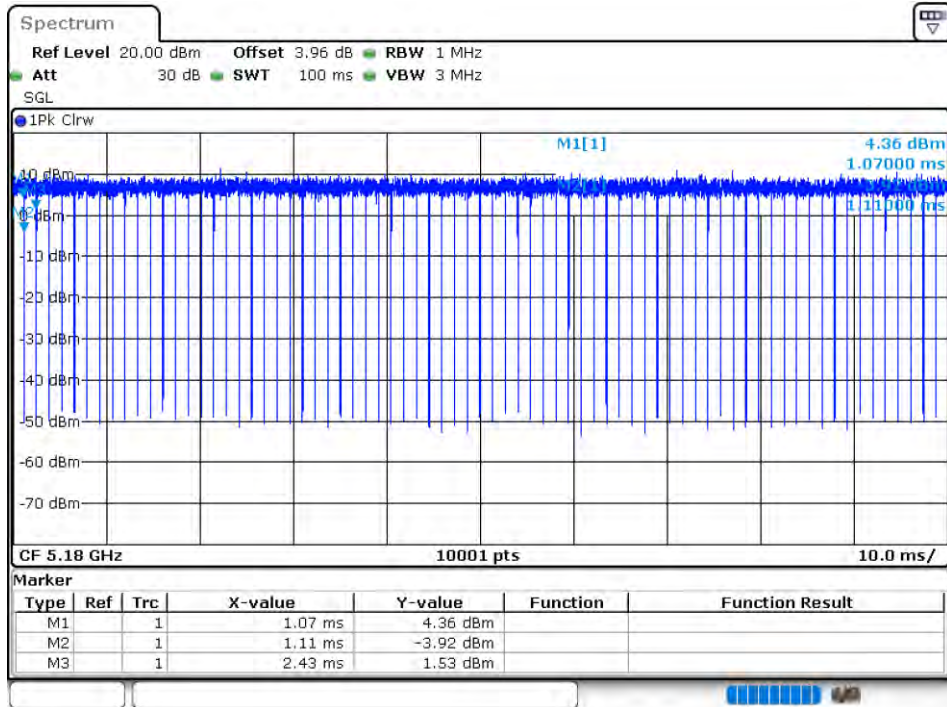
Duty Cycle NVNT n40 5190MHz Ant1



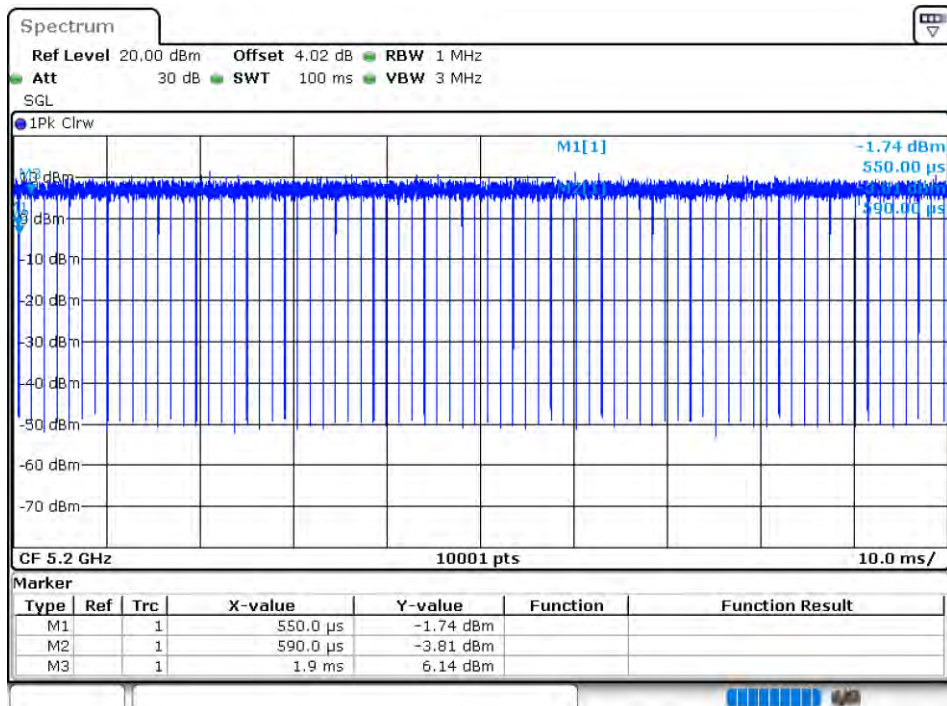
Duty Cycle NVNT n40 5230MHz Ant1



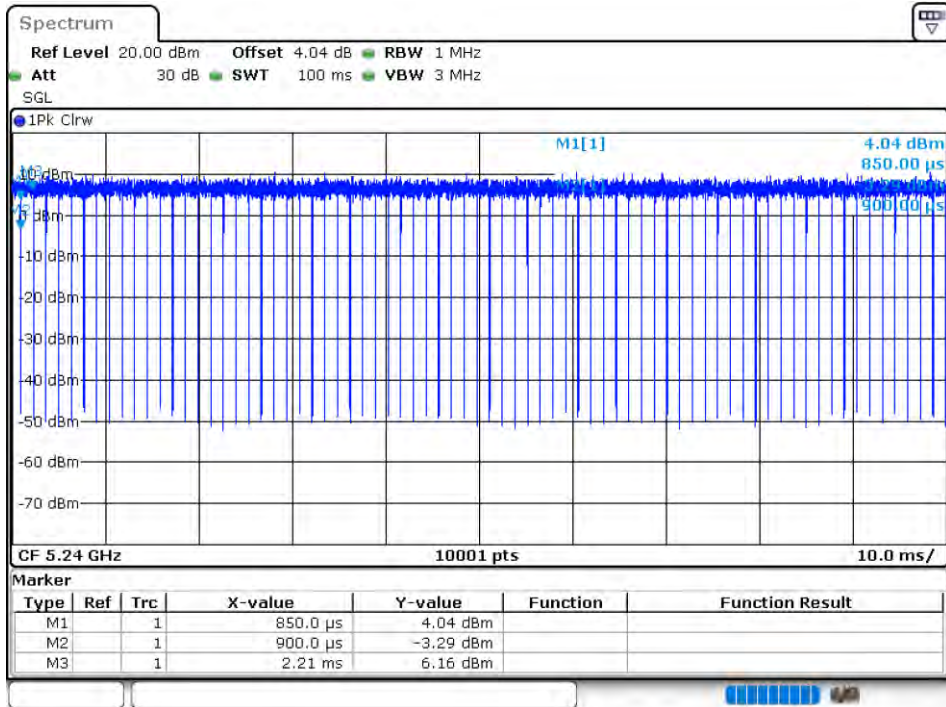
Duty Cycle NVNT ac20 5180MHz Ant1



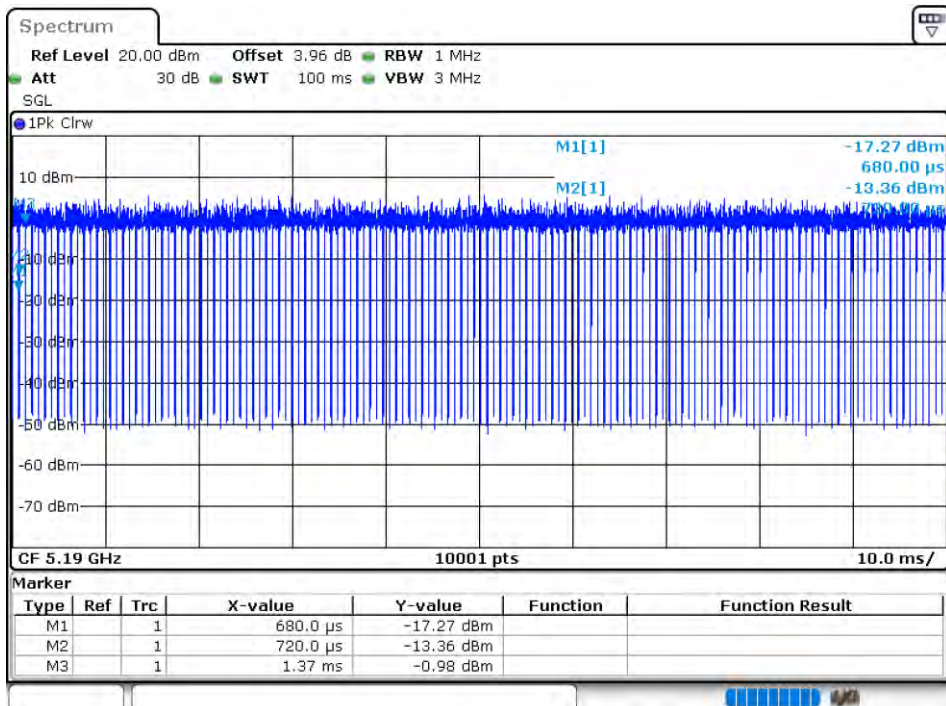
Duty Cycle NVNT ac20 5200MHz Ant1



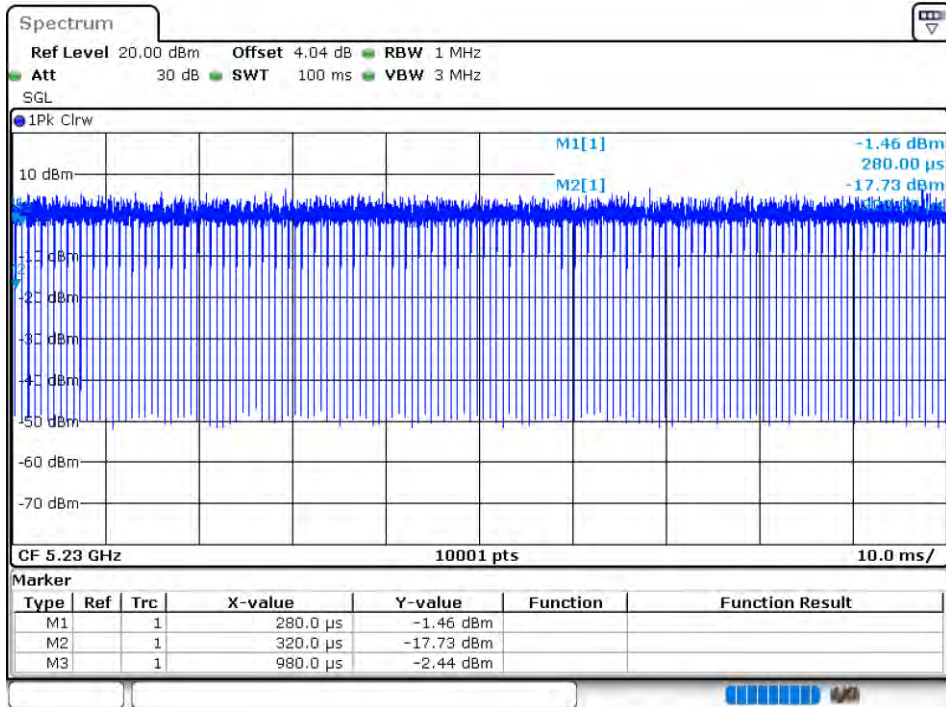
Duty Cycle NVNT ac20 5240MHz Ant1



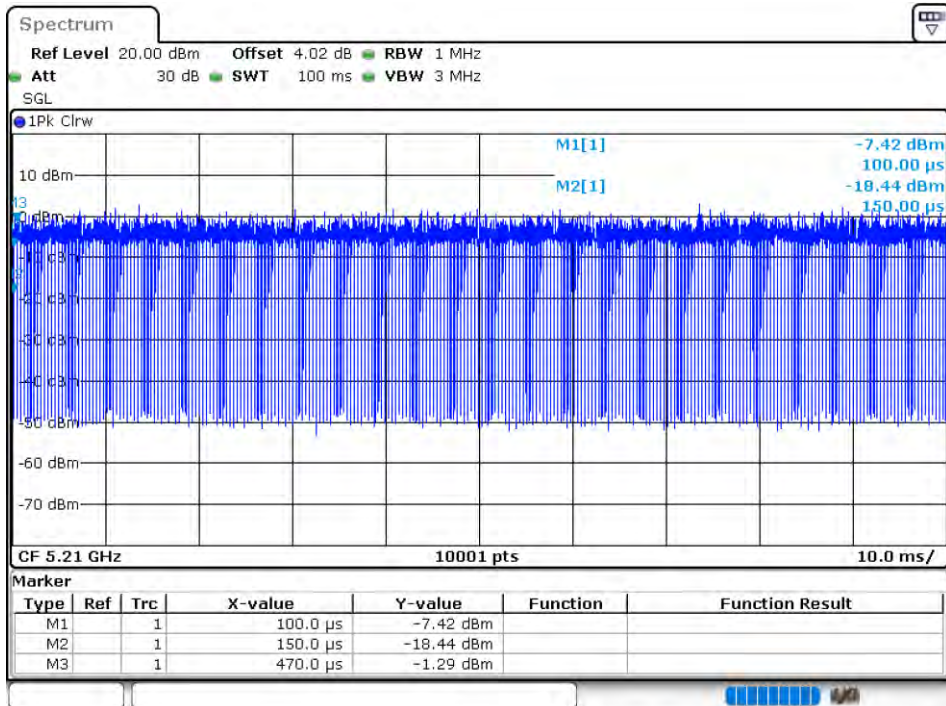
Duty Cycle NVNT ac40 5190MHz Ant1



Duty Cycle NVNT ac40 5230MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	14.8	24	Pass
NVNT	a	5200	Ant1	14.92	24	Pass
NVNT	a	5240	Ant1	14.91	24	Pass
NVNT	n20	5180	Ant1	13.84	24	Pass
NVNT	n20	5200	Ant1	13.75	24	Pass
NVNT	n20	5240	Ant1	13.73	24	Pass
NVNT	n40	5190	Ant1	12.29	24	Pass
NVNT	n40	5230	Ant1	13.81	24	Pass
NVNT	ac20	5180	Ant1	13.89	24	Pass
NVNT	ac20	5200	Ant1	13.93	24	Pass
NVNT	ac20	5240	Ant1	13.72	24	Pass
NVNT	ac40	5190	Ant1	13.11	24	Pass
NVNT	ac40	5230	Ant1	13.75	24	Pass
NVNT	ac80	5210	Ant1	12.68	24	Pass

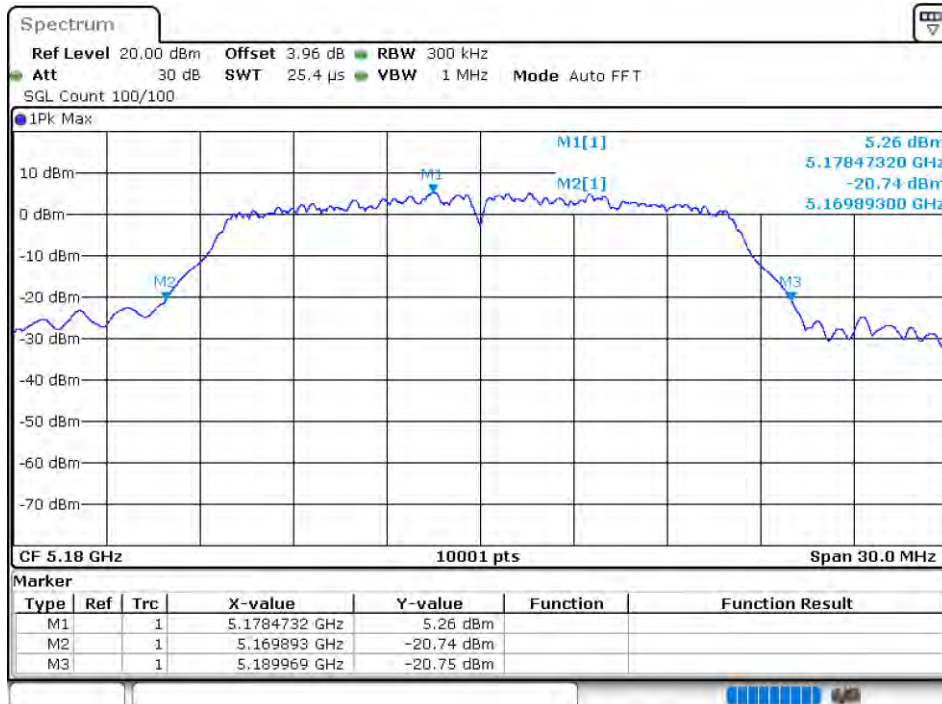
Note: The average power contains duty factor

-26dB Bandwidth

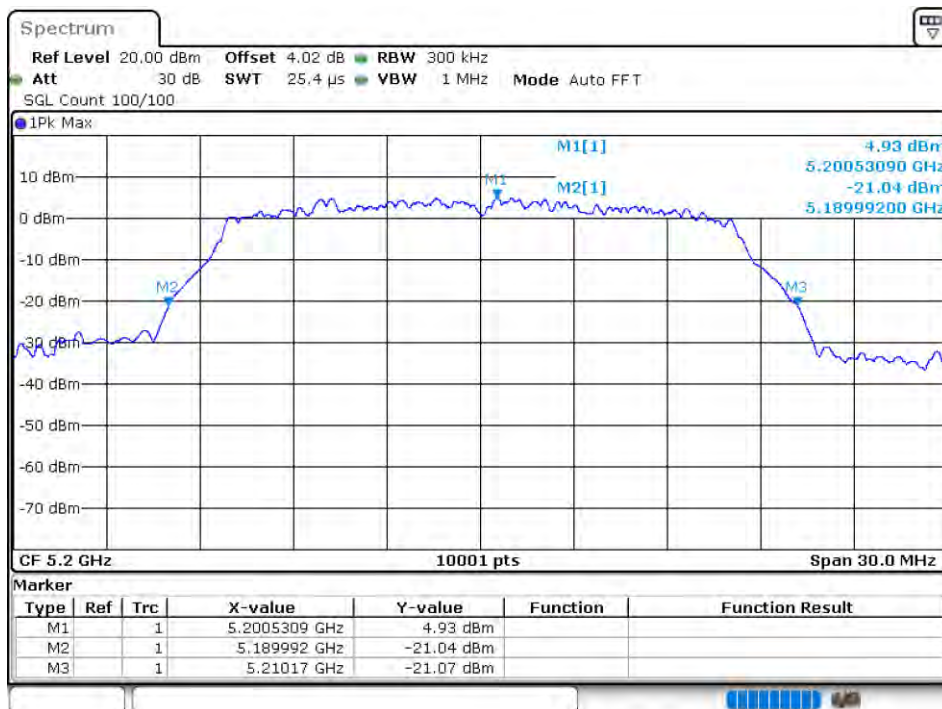
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.076	Pass
NVNT	a	5200	Ant1	20.178	Pass
NVNT	a	5240	Ant1	19.545	Pass
NVNT	n20	5180	Ant1	20.274	Pass
NVNT	n20	5200	Ant1	19.839	Pass
NVNT	n20	5240	Ant1	20.079	Pass
NVNT	n40	5190	Ant1	40.938	Pass
NVNT	n40	5230	Ant1	40.818	Pass
NVNT	ac20	5180	Ant1	19.767	Pass
NVNT	ac20	5200	Ant1	20.193	Pass
NVNT	ac20	5240	Ant1	20.145	Pass
NVNT	ac40	5190	Ant1	40.62	Pass
NVNT	ac40	5230	Ant1	40.938	Pass
NVNT	ac80	5210	Ant1	81.036	Pass

Test Graphs

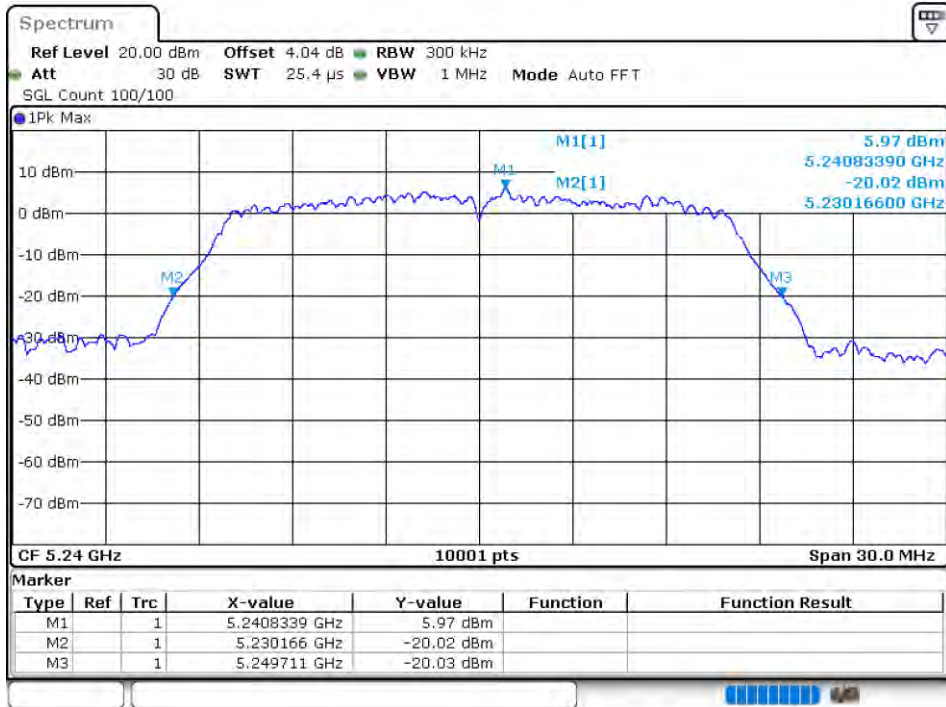
-26dB Bandwidth NVNT a 5180MHz Ant1



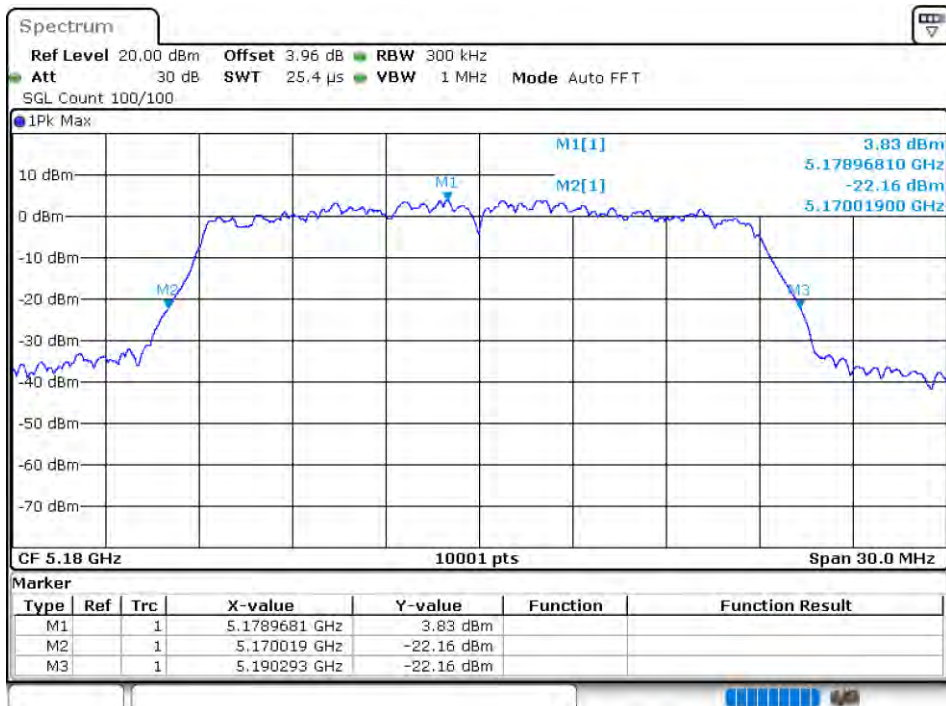
-26dB Bandwidth NVNT a 5200MHz Ant1



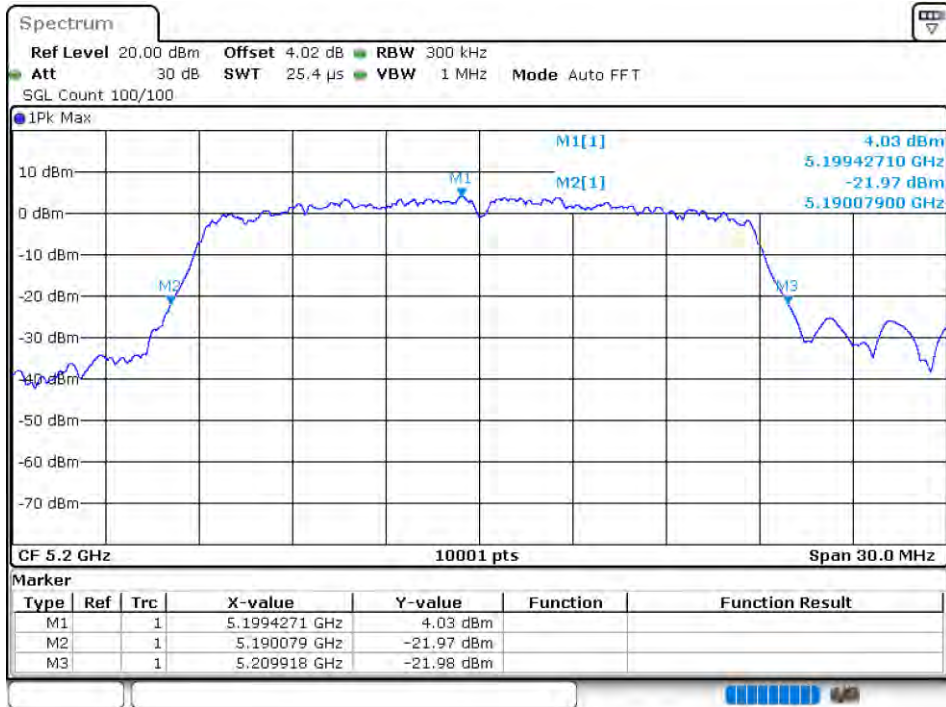
-26dB Bandwidth NVNT a 5240MHz Ant1



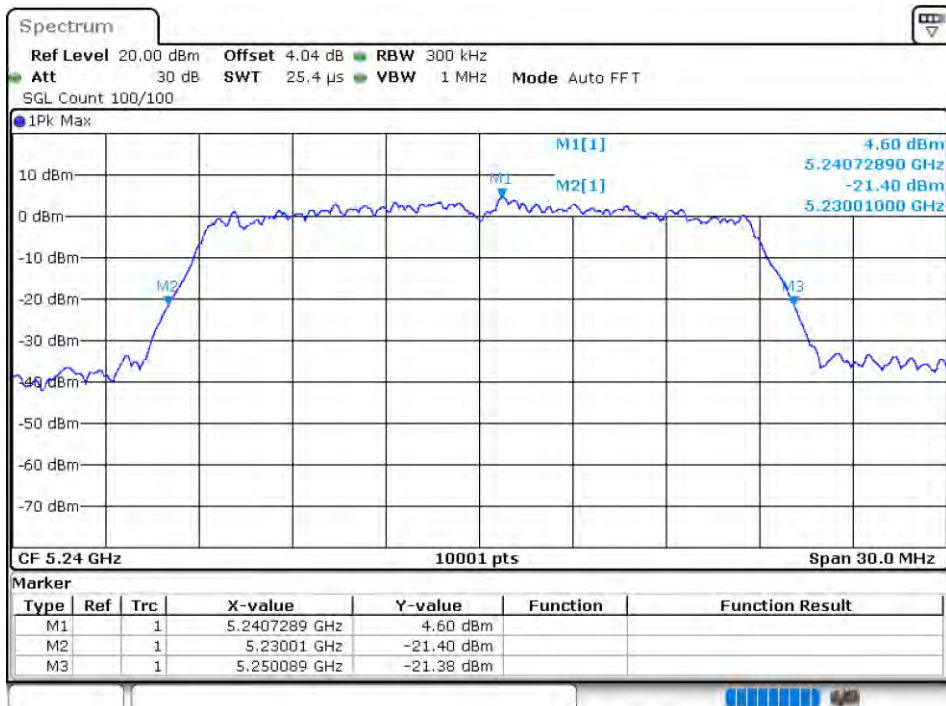
-26dB Bandwidth NVNT n20 5180MHz Ant1



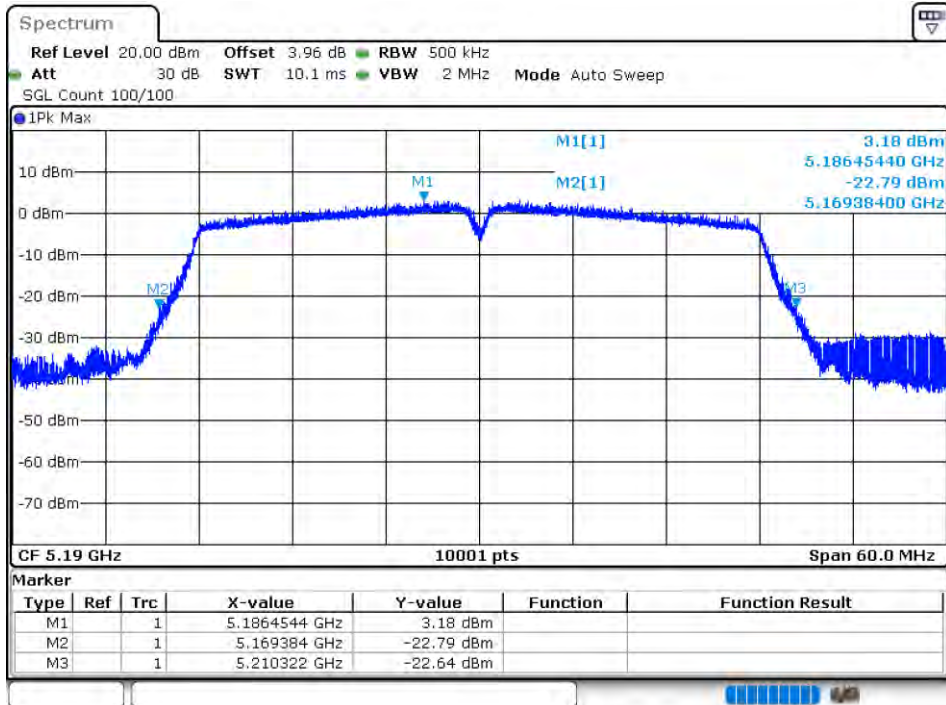
-26dB Bandwidth NVNT n20 5200MHz Ant1



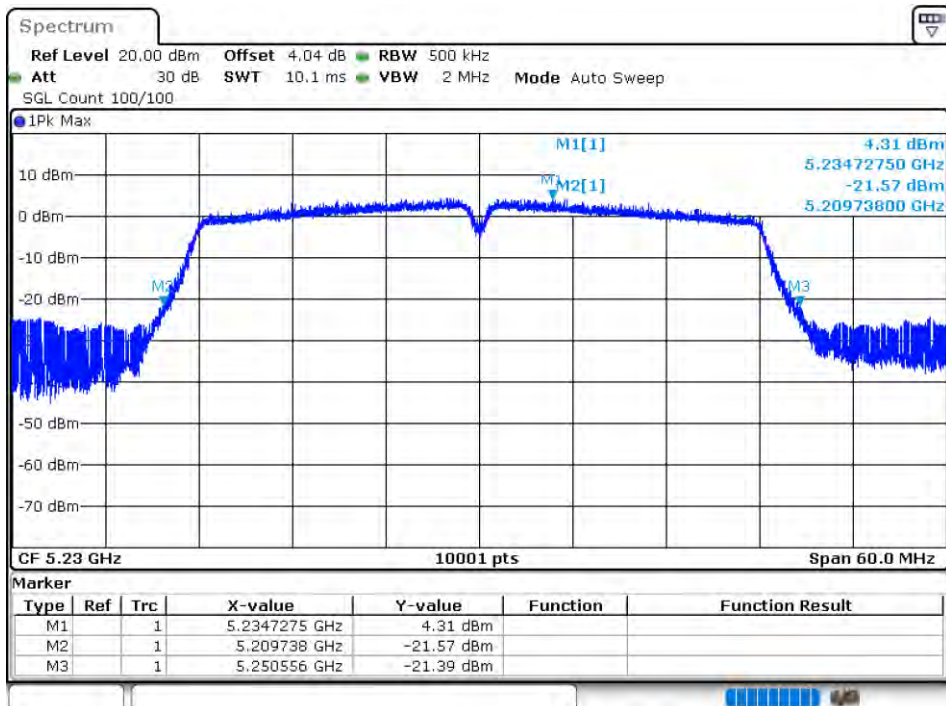
-26dB Bandwidth NVNT n20 5240MHz Ant1



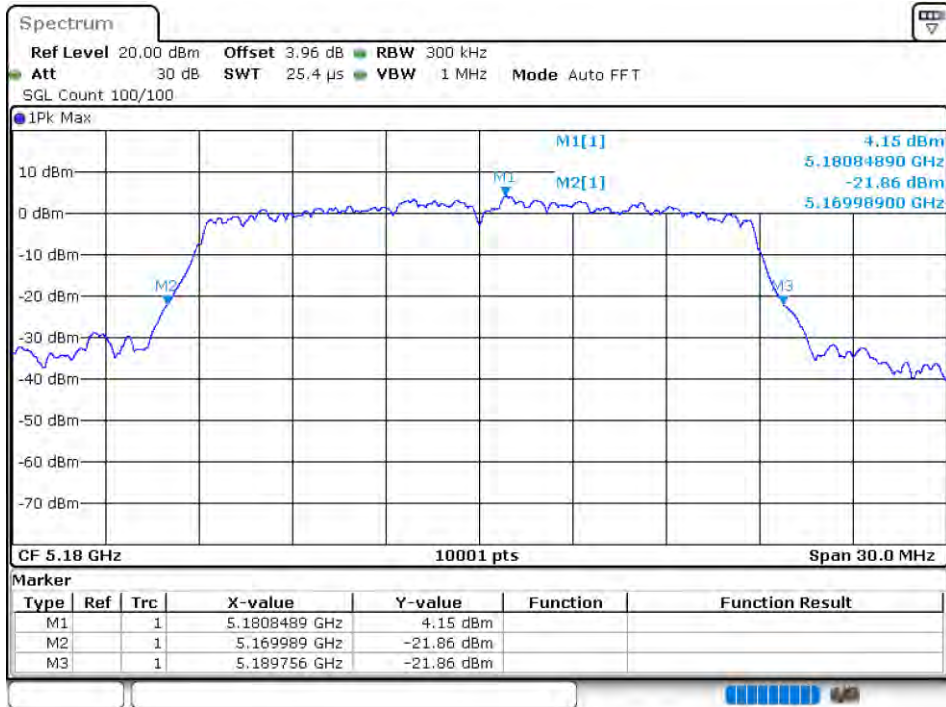
-26dB Bandwidth NVNT n40 5190MHz Ant1



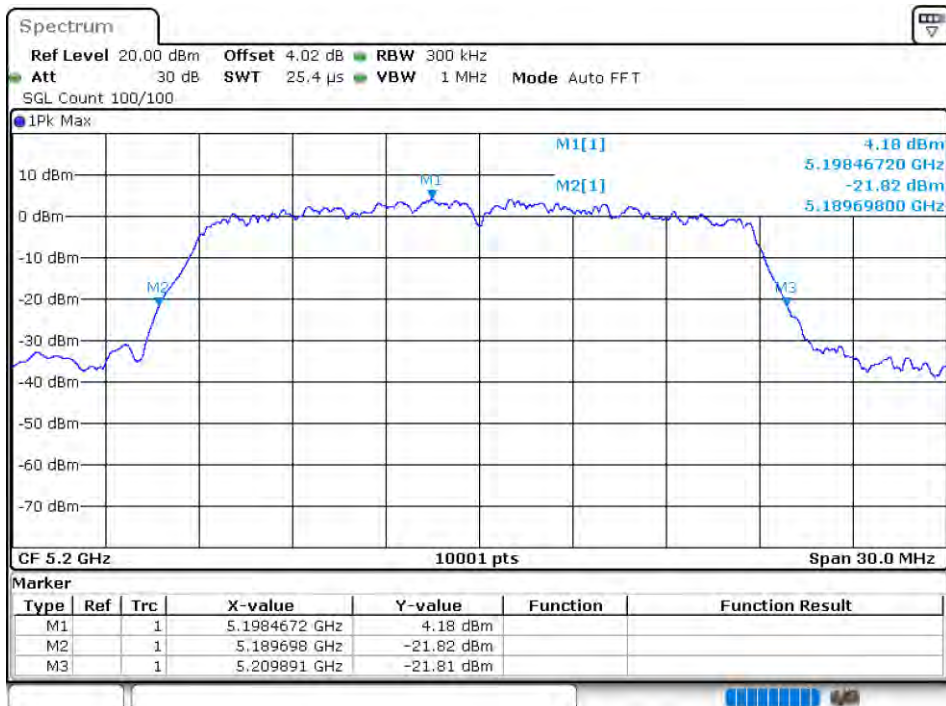
-26dB Bandwidth NVNT n40 5230MHz Ant1



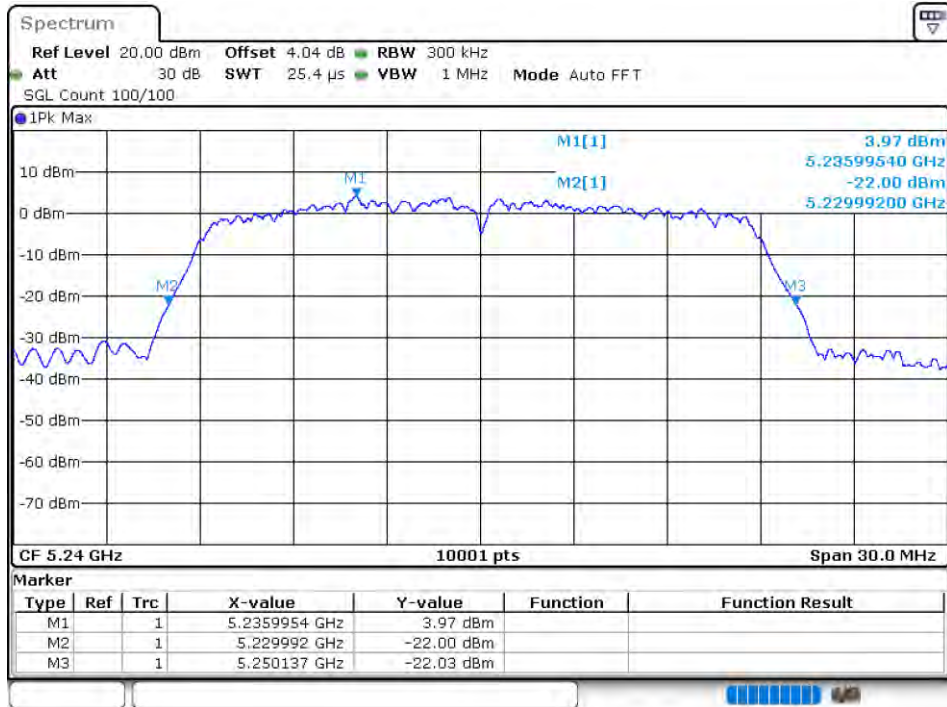
-26dB Bandwidth NVNT ac20 5180MHz Ant1



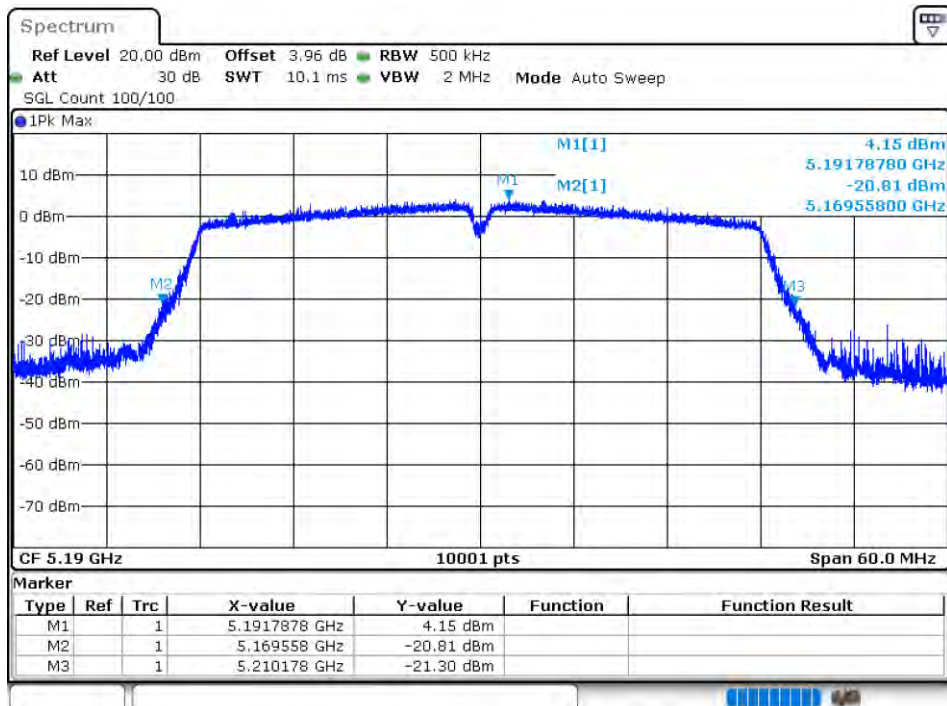
-26dB Bandwidth NVNT ac20 5200MHz Ant1



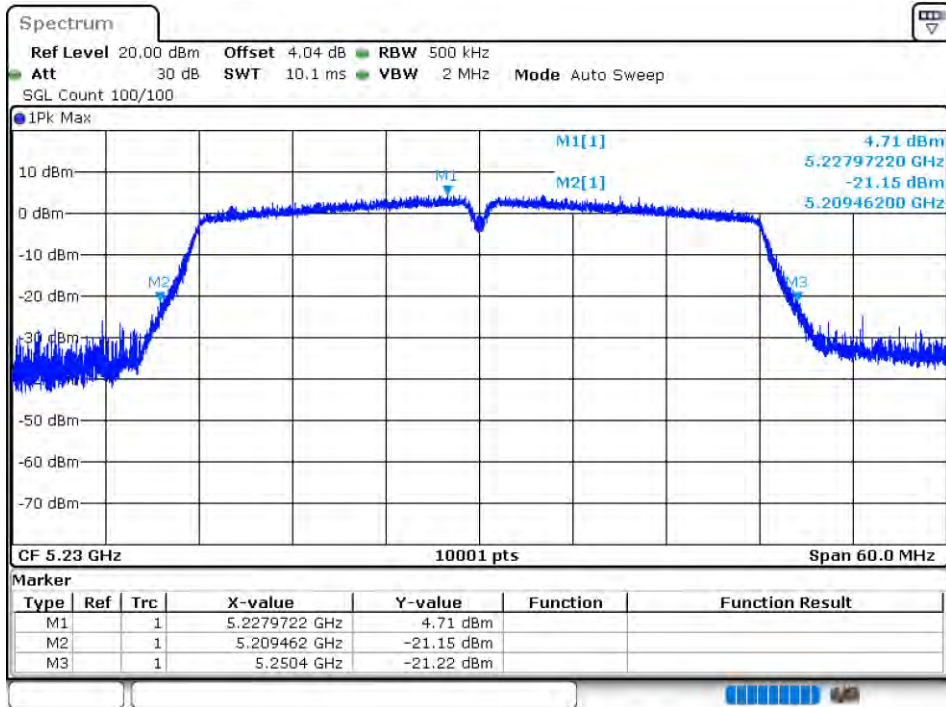
-26dB Bandwidth NVNT ac20 5240MHz Ant1



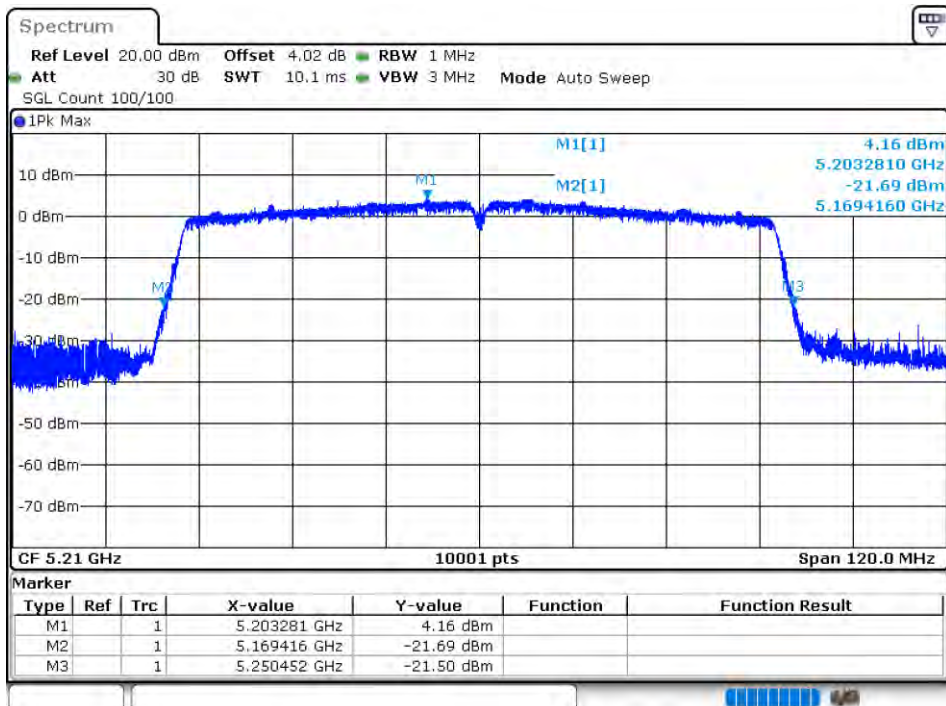
-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.489
NVNT	a	5200	Ant1	16.405
NVNT	a	5240	Ant1	16.636
NVNT	n20	5180	Ant1	17.566
NVNT	n20	5200	Ant1	17.551
NVNT	n20	5240	Ant1	17.53
NVNT	n40	5190	Ant1	35.978
NVNT	n40	5230	Ant1	36.068
NVNT	ac20	5180	Ant1	17.581
NVNT	ac20	5200	Ant1	17.659
NVNT	ac20	5240	Ant1	17.521
NVNT	ac40	5190	Ant1	35.972
NVNT	ac40	5230	Ant1	36.044
NVNT	ac80	5210	Ant1	75.16

Test Graphs

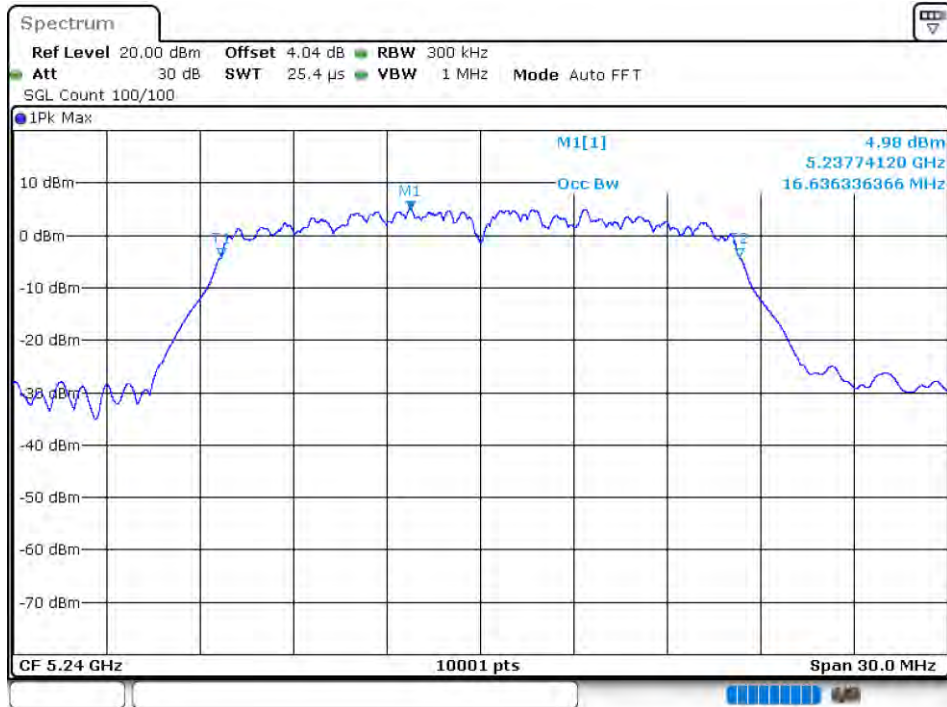
OBW NVNT a 5180MHz Ant1



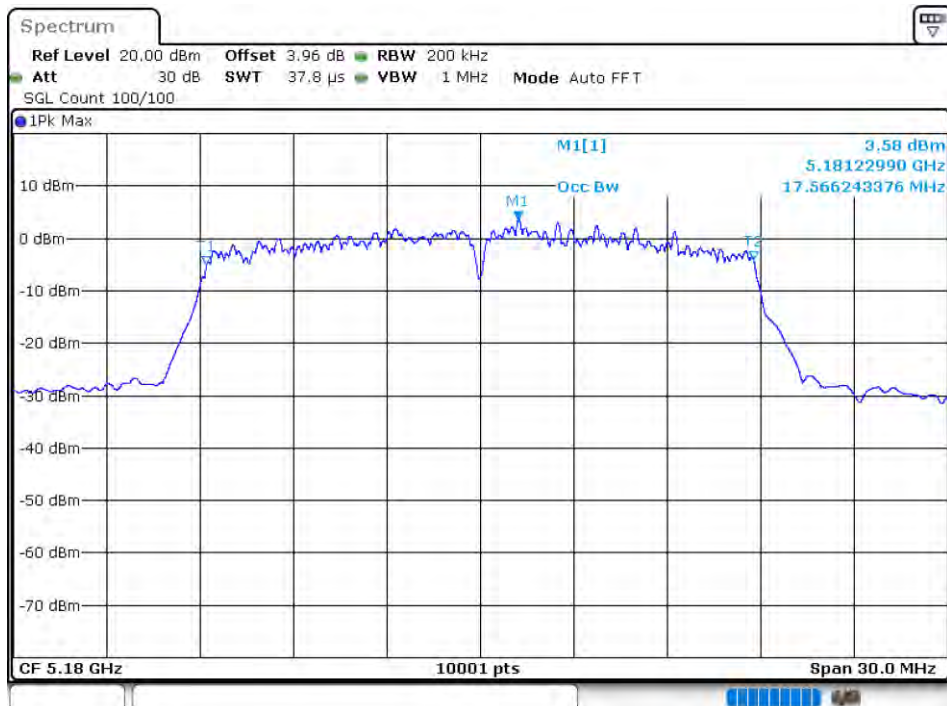
OBW NVNT a 5200MHz Ant1

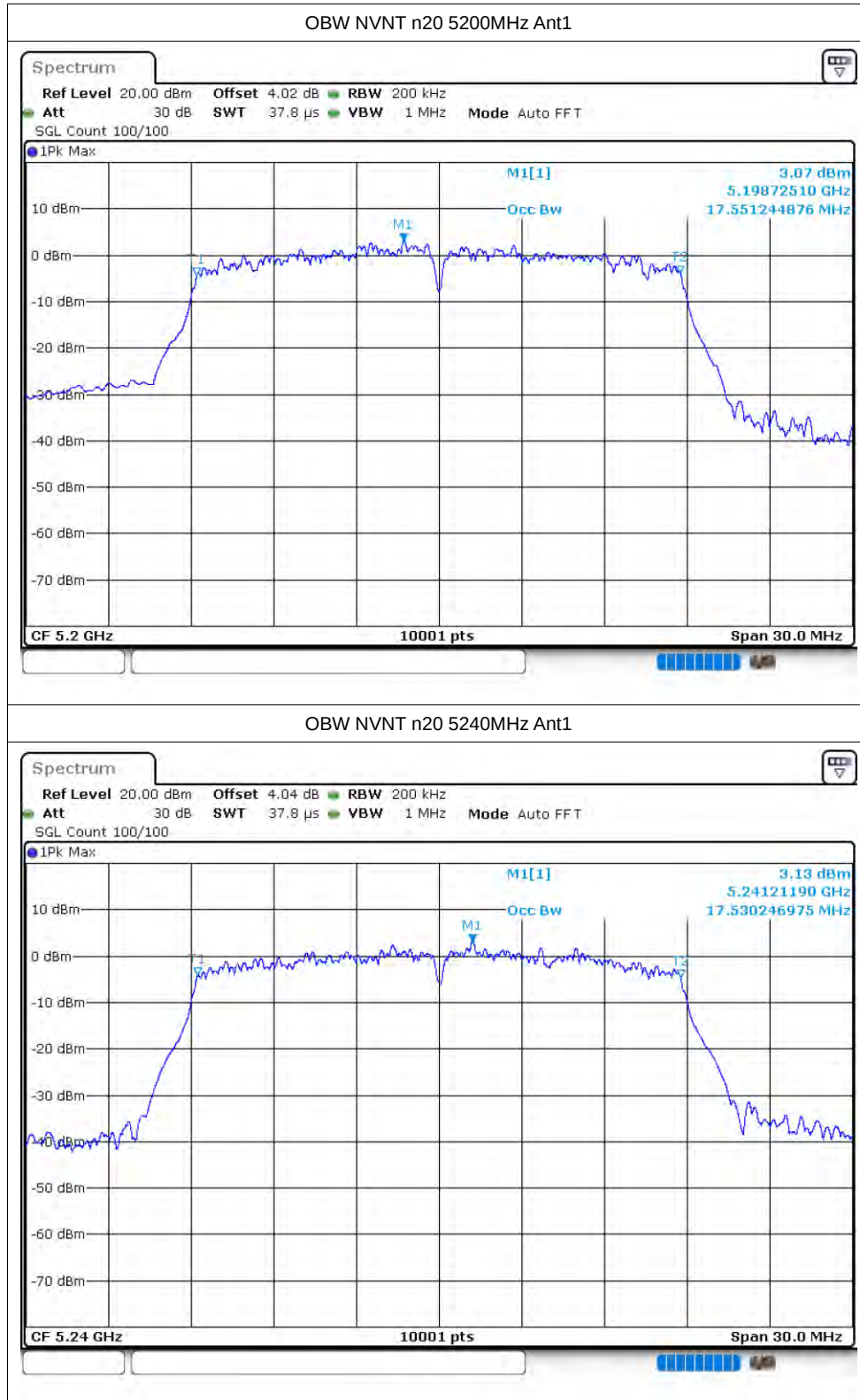


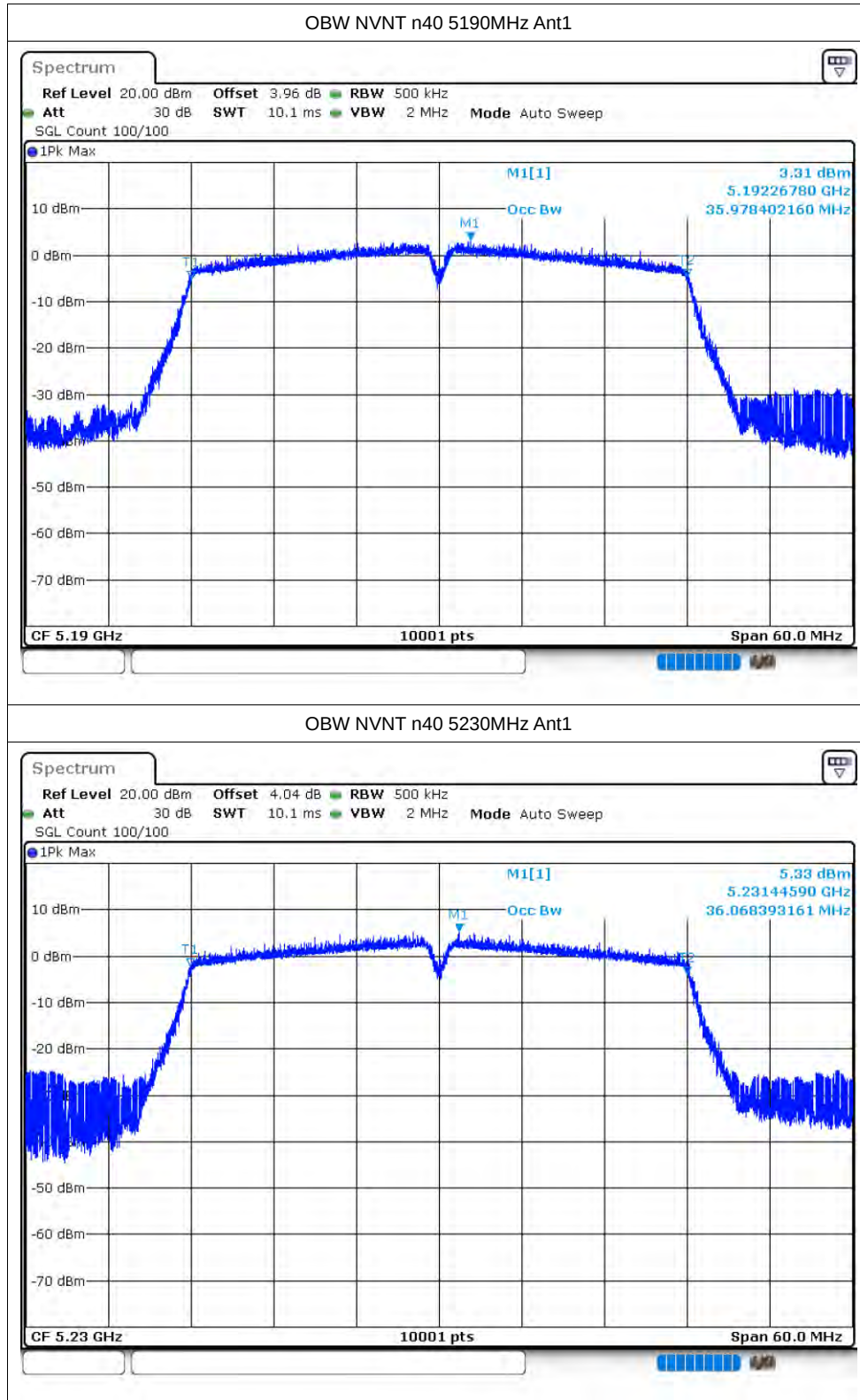
OBW NVNT a 5240MHz Ant1



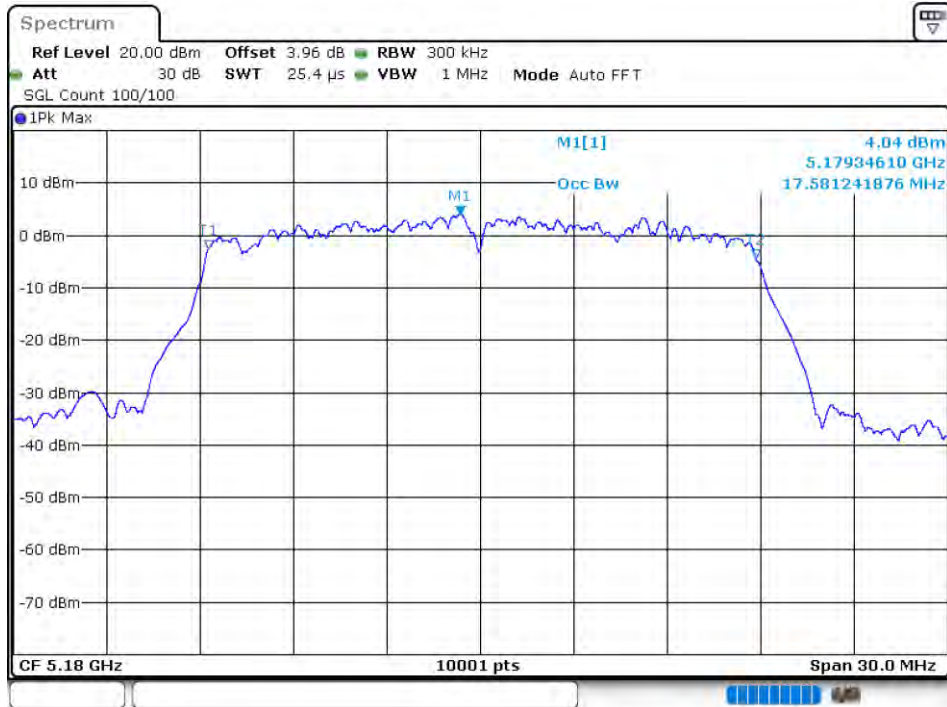
OBW NVNT n20 5180MHz Ant1



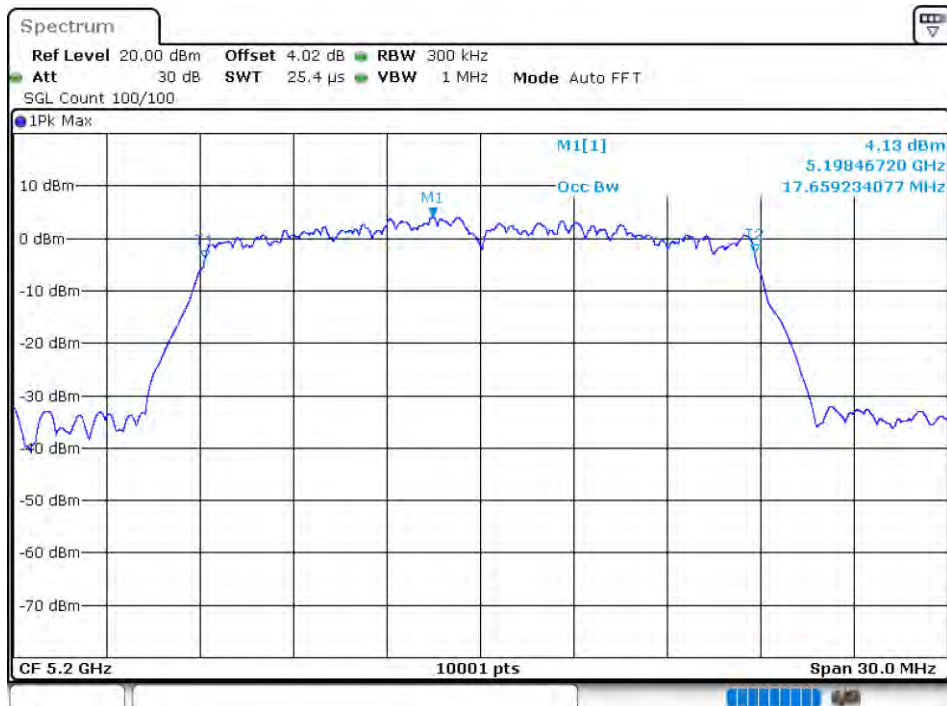




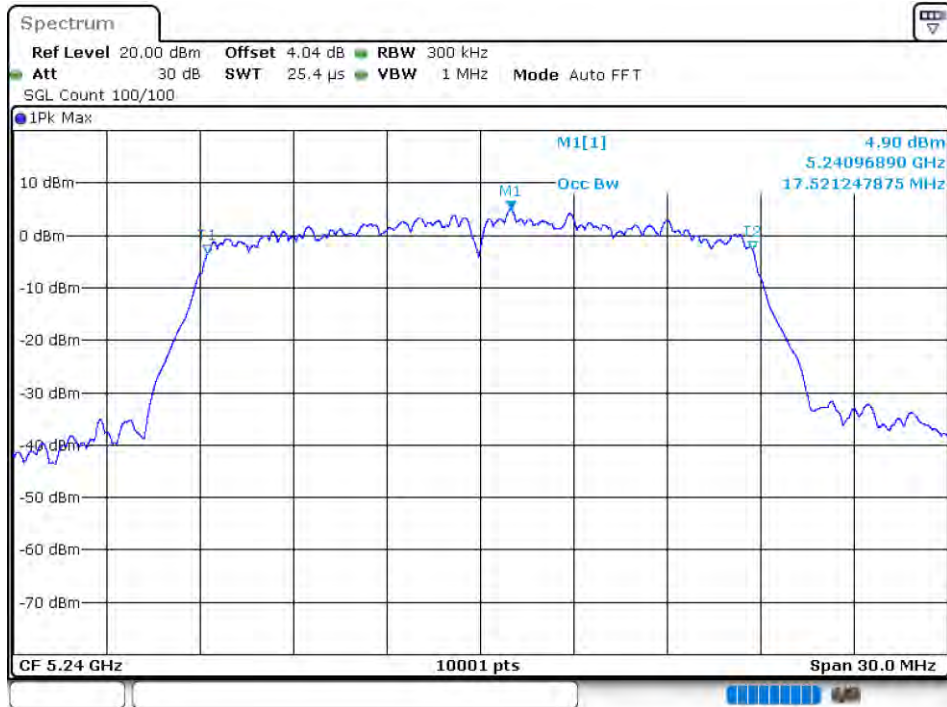
OBW NVNT ac20 5180MHz Ant1



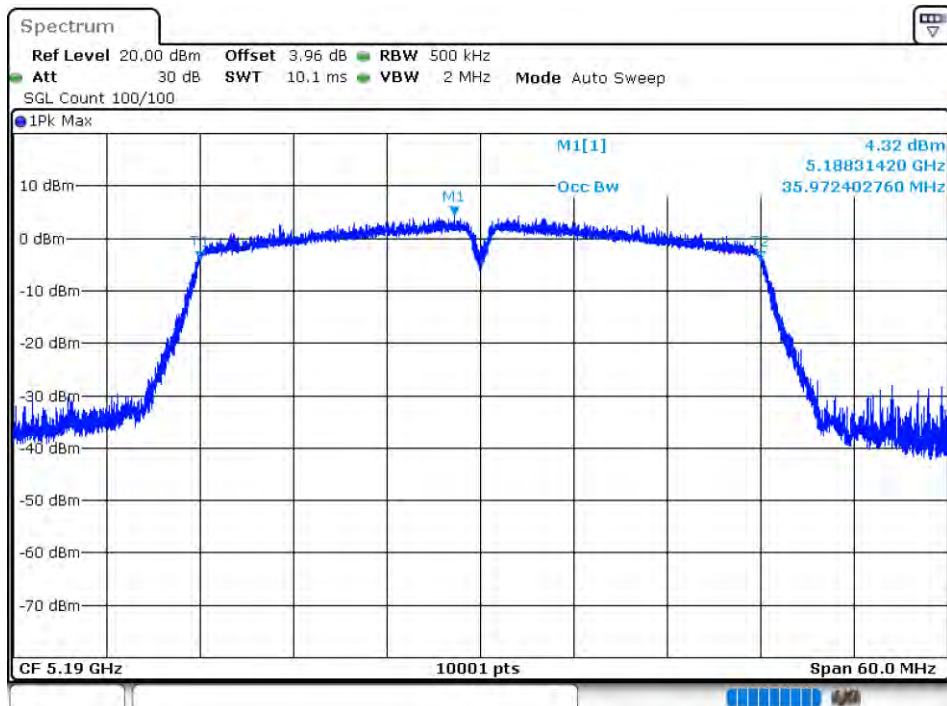
OBW NVNT ac20 5200MHz Ant1



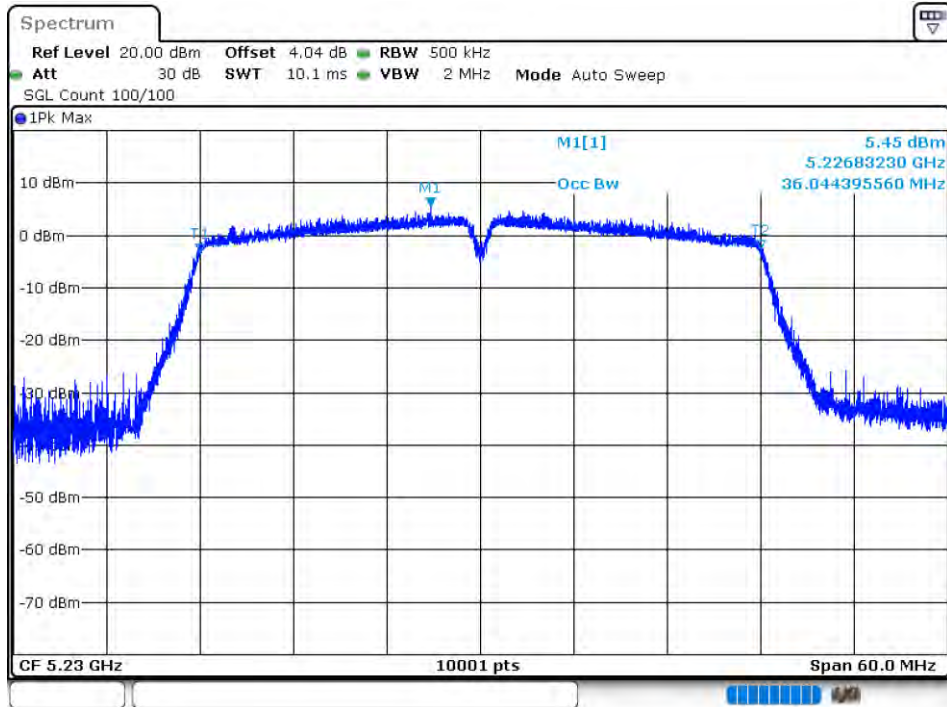
OBW NVNT ac20 5240MHz Ant1



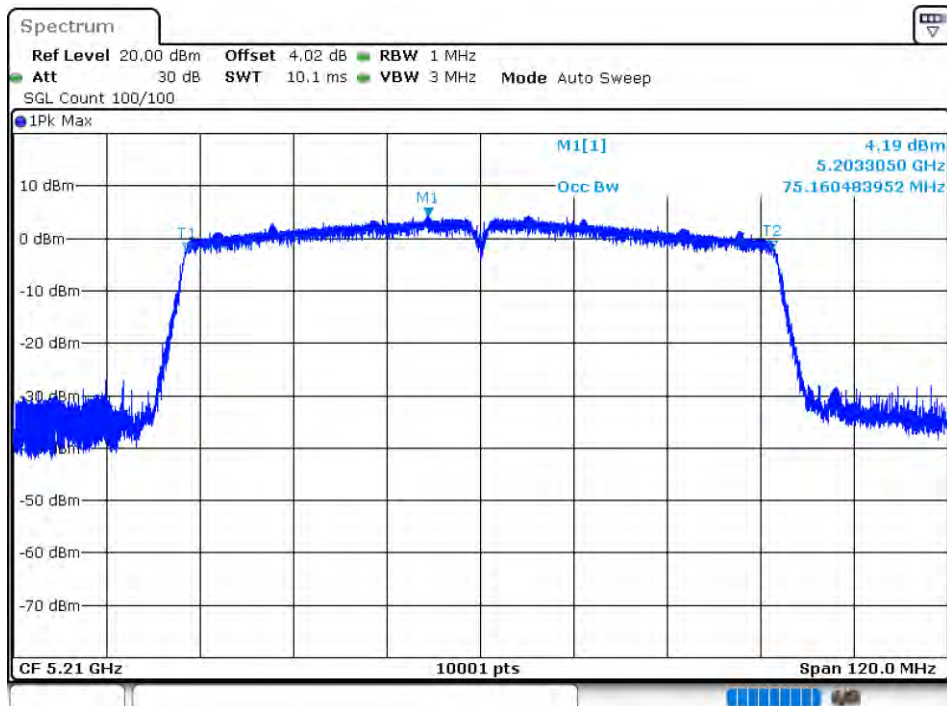
OBW NVNT ac40 5190MHz Ant1



OBW NVNT ac40 5230MHz Ant1



OBW NVNT ac80 5210MHz Ant1

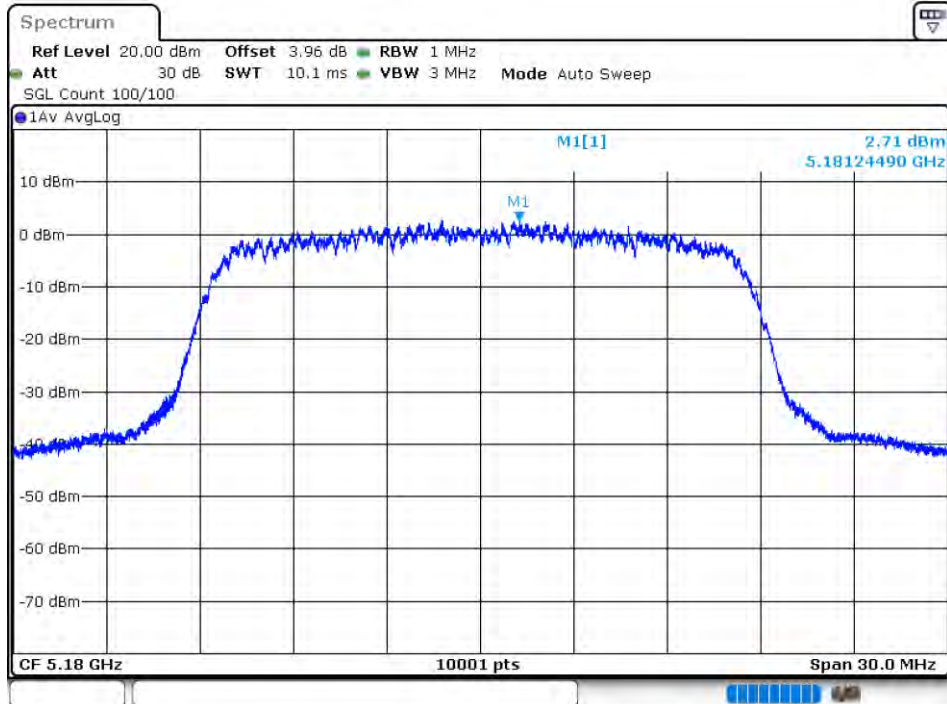


Maximum Power Spectral Density Level

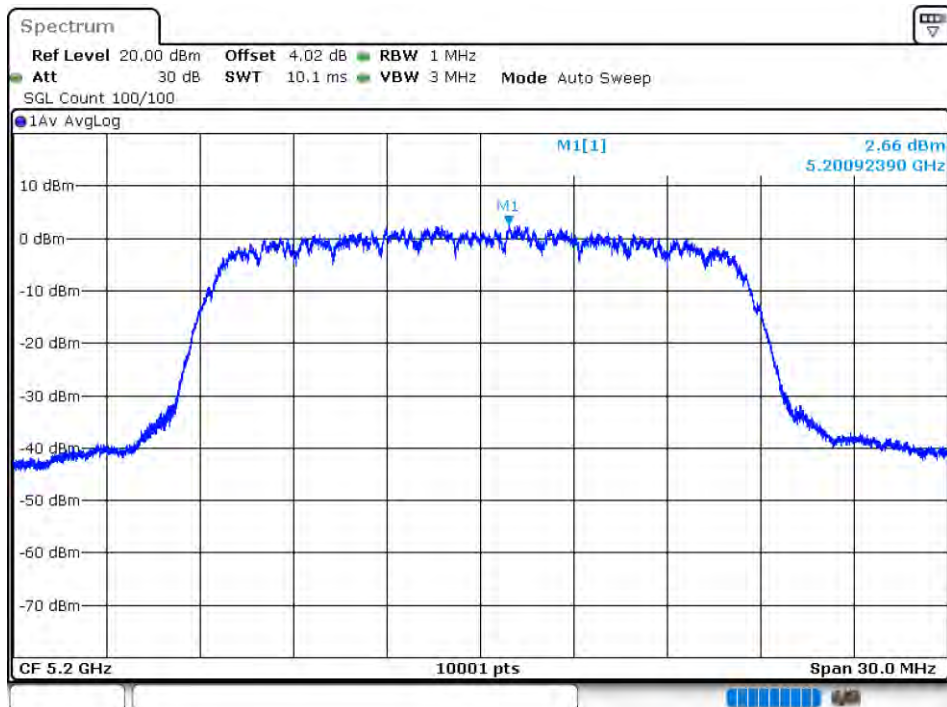
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	2.71	0.1	2.81	11	Pass
NVNT	a	5200	Ant1	2.66	0.1	2.76	11	Pass
NVNT	a	5240	Ant1	2.58	0.1	2.68	11	Pass
NVNT	n20	5180	Ant1	0.99	0.11	1.1	11	Pass
NVNT	n20	5200	Ant1	1.51	0.11	1.62	11	Pass
NVNT	n20	5240	Ant1	1.87	0.11	1.98	11	Pass
NVNT	n40	5190	Ant1	-4.25	0.21	-4.04	11	Pass
NVNT	n40	5230	Ant1	-1.89	0.21	-1.68	11	Pass
NVNT	ac20	5180	Ant1	1.16	0.11	1.27	11	Pass
NVNT	ac20	5200	Ant1	1.58	0.11	1.69	11	Pass
NVNT	ac20	5240	Ant1	1.36	0.11	1.47	11	Pass
NVNT	ac40	5190	Ant1	-3.45	0.21	-3.24	11	Pass
NVNT	ac40	5230	Ant1	-2.13	0.21	-1.92	11	Pass
NVNT	ac80	5210	Ant1	-8.7	0.42	-8.28	11	Pass

Test Graphs

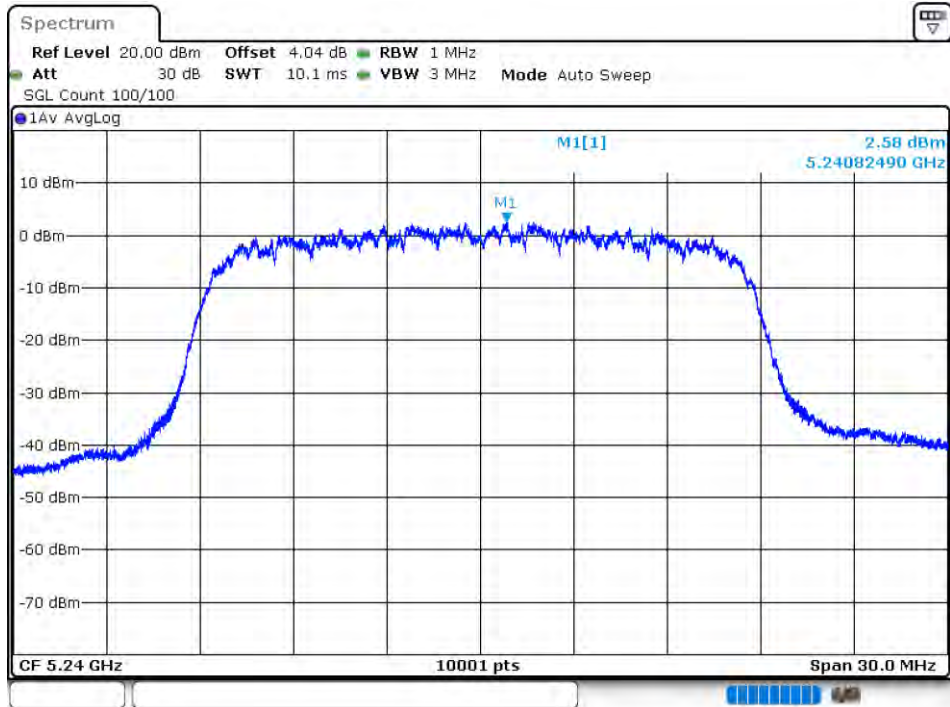
PSD NVNT a 5180MHz Ant1



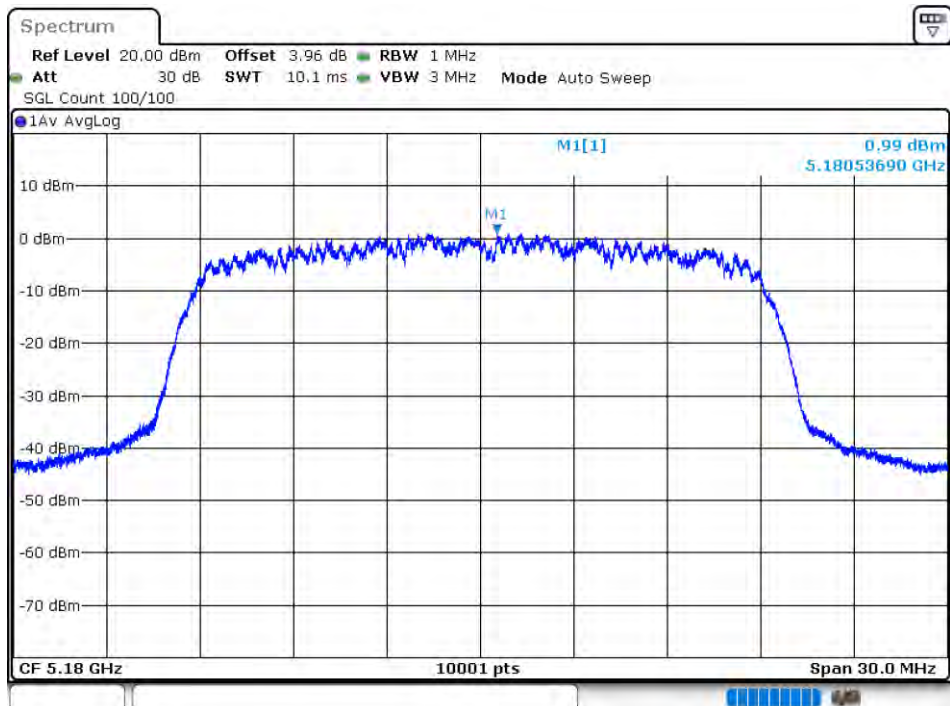
PSD NVNT a 5200MHz Ant1

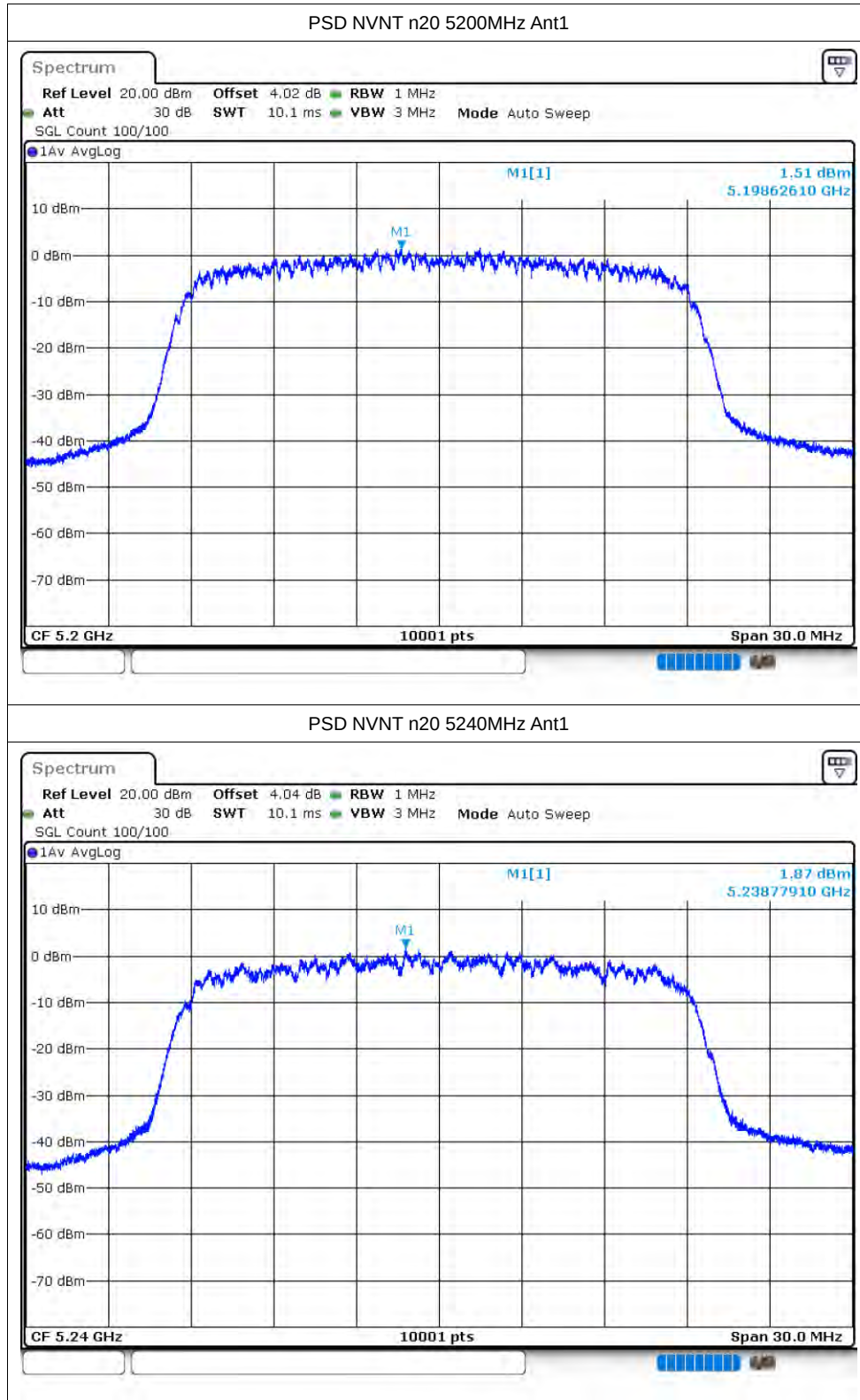


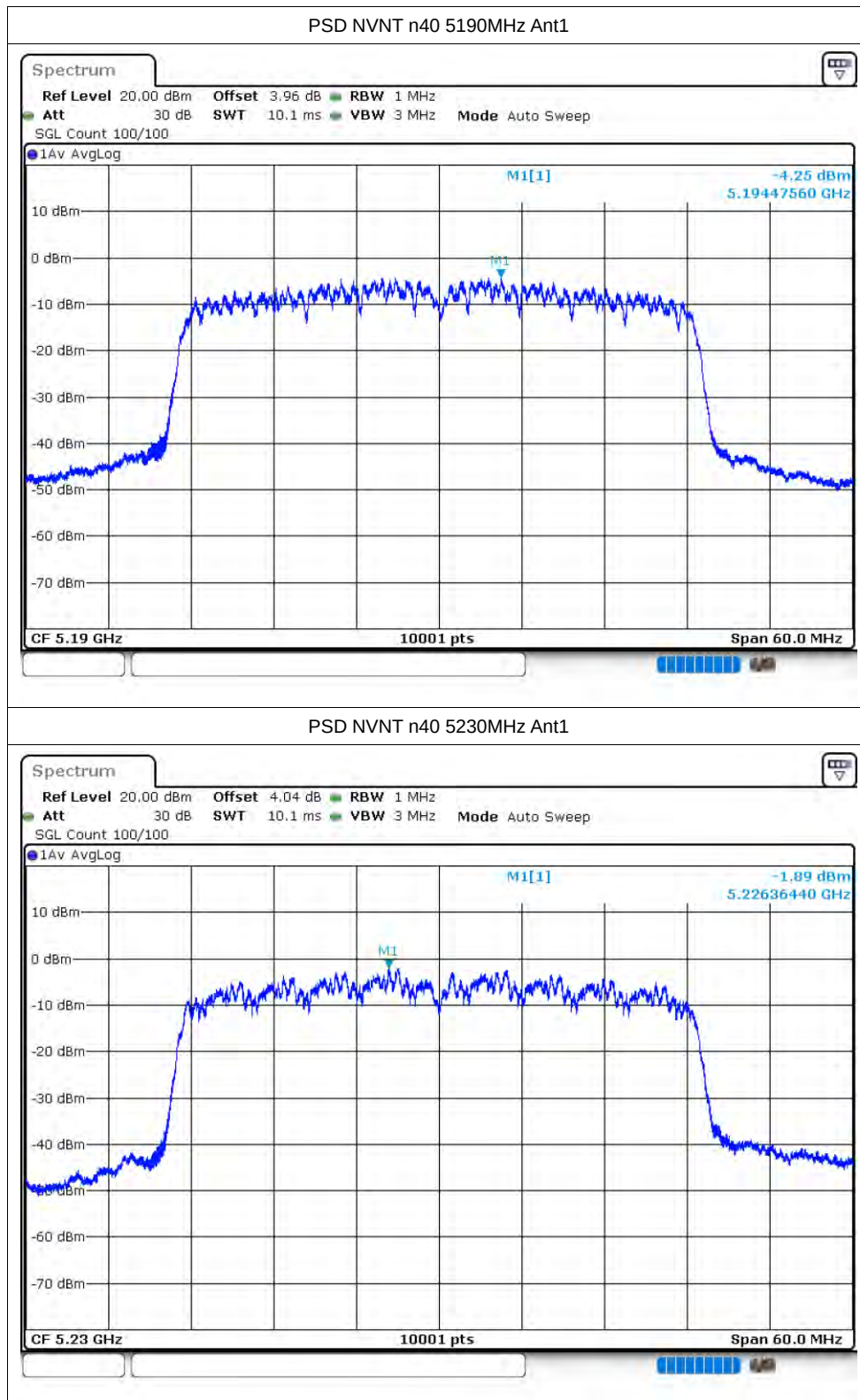
PSD NVNT a 5240MHz Ant1

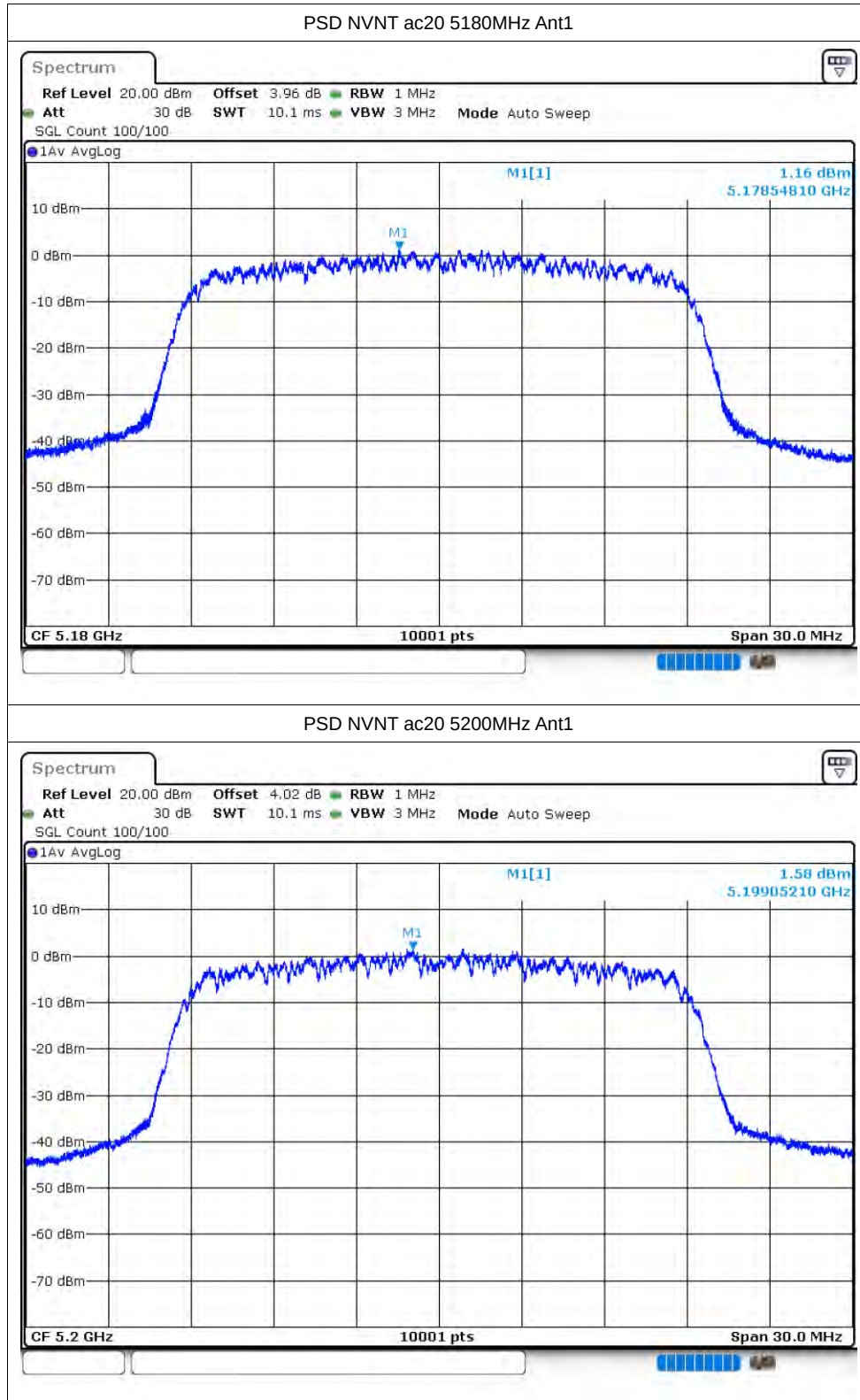


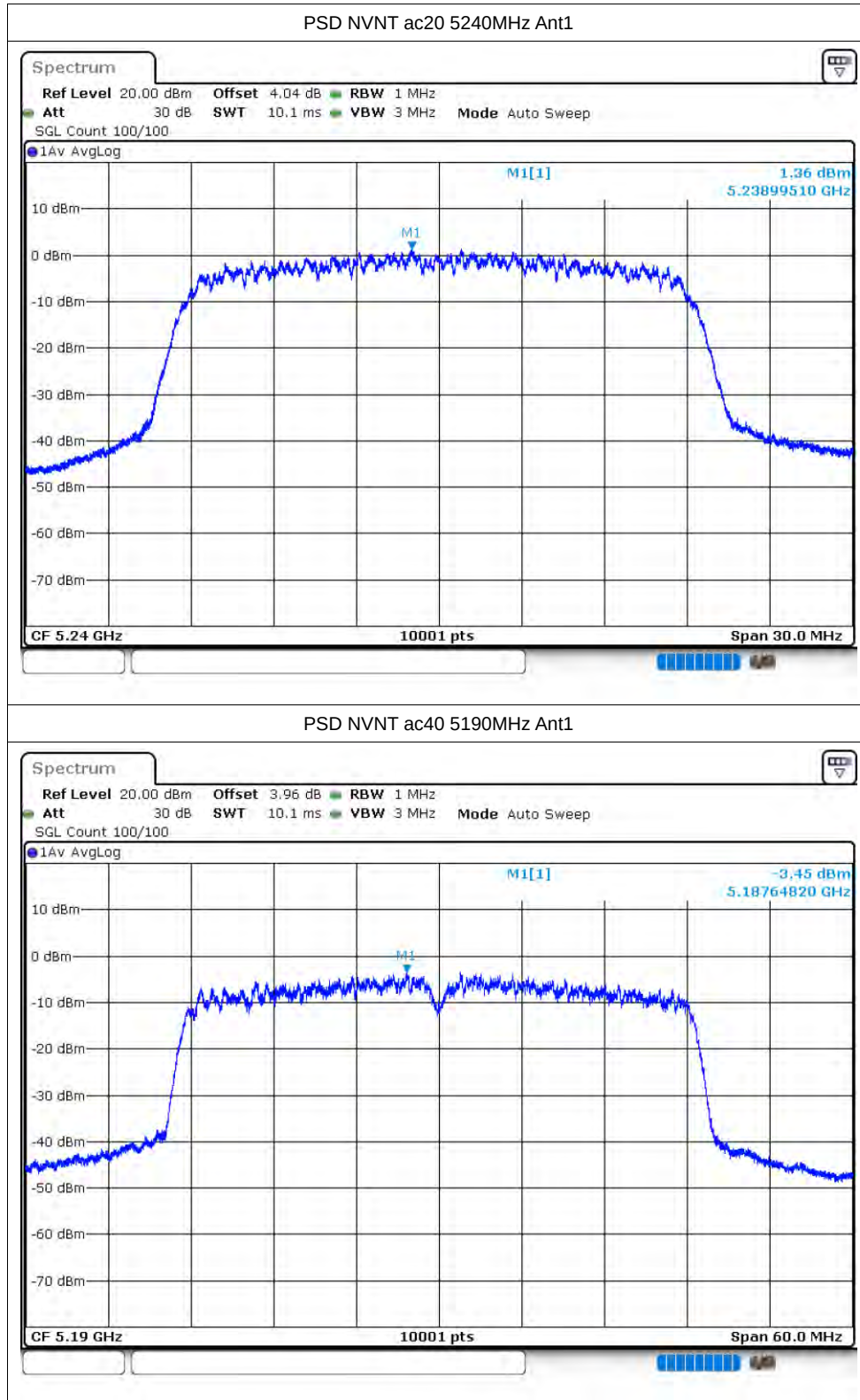
PSD NVNT n20 5180MHz Ant1

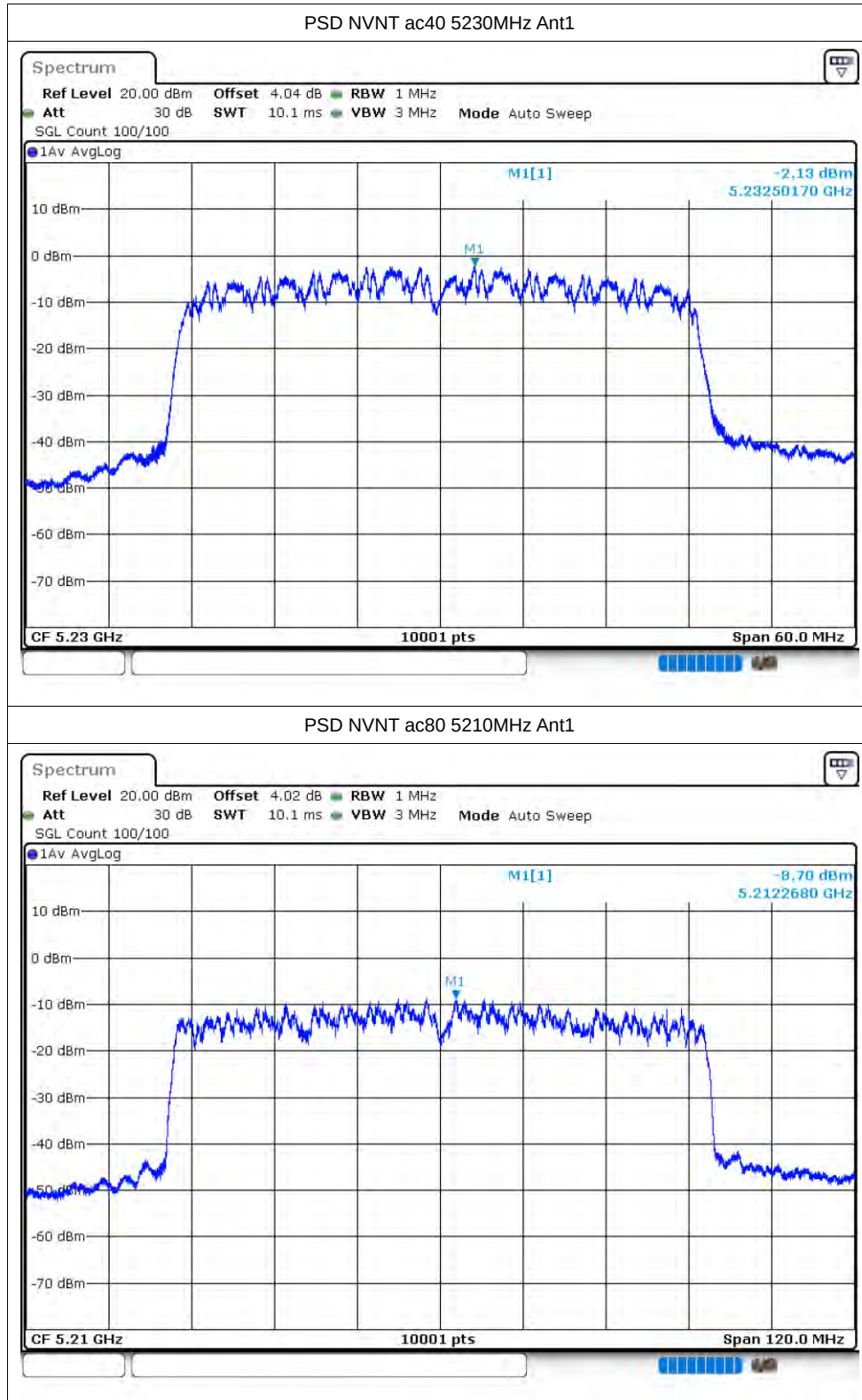










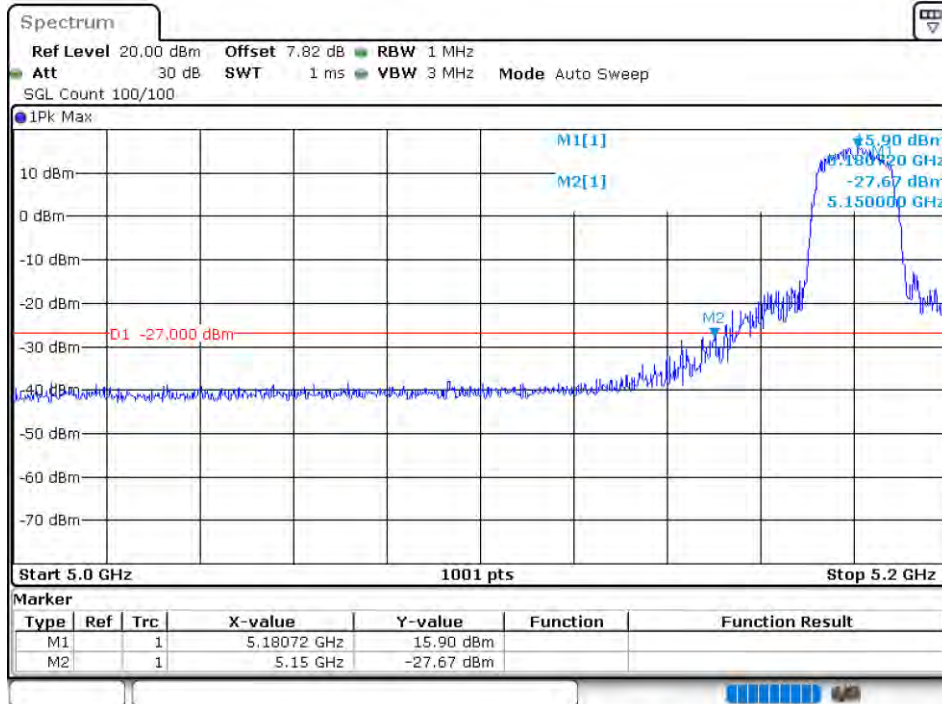


Band Edge

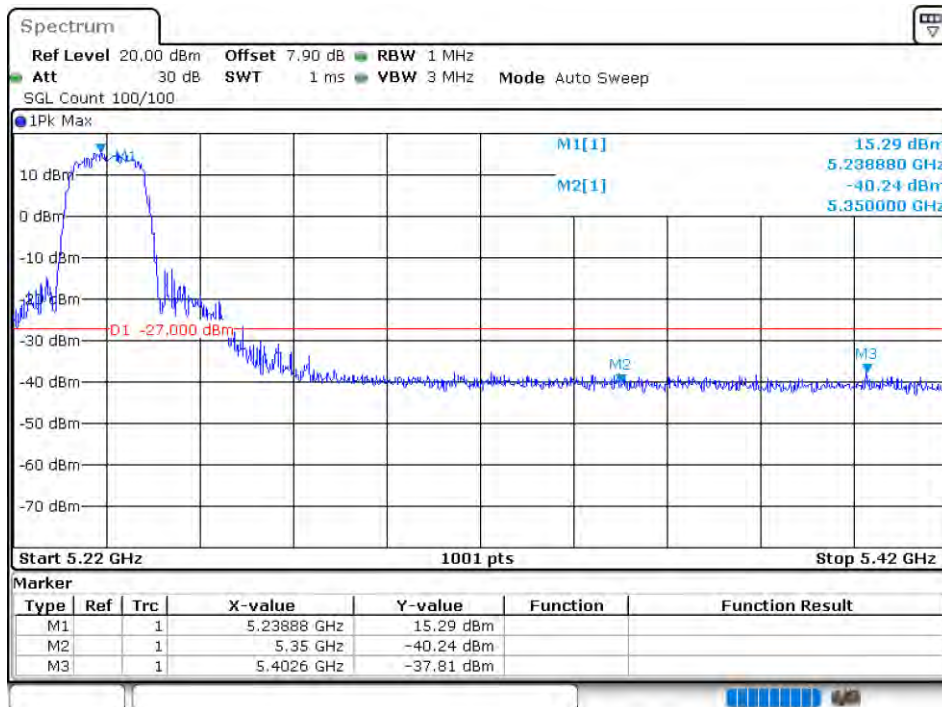
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-27.67	-27	Pass
NVNT	a	5240	Ant1	-37.81	-27	Pass
NVNT	n20	5180	Ant1	-27.61	-27	Pass
NVNT	n20	5240	Ant1	-38.78	-27	Pass
NVNT	n40	5190	Ant1	-28.08	-27	Pass
NVNT	n40	5230	Ant1	-37.98	-27	Pass
NVNT	ac20	5180	Ant1	-27.95	-27	Pass
NVNT	ac20	5240	Ant1	-37.31	-27	Pass
NVNT	ac40	5190	Ant1	-27.07	-27	Pass
NVNT	ac40	5230	Ant1	-37.8	-27	Pass
NVNT	ac80	5210	Ant1	-38.24	-27	Pass
NVNT	ac80	5210	Ant1	-27.2	-27	Pass

Test Graphs

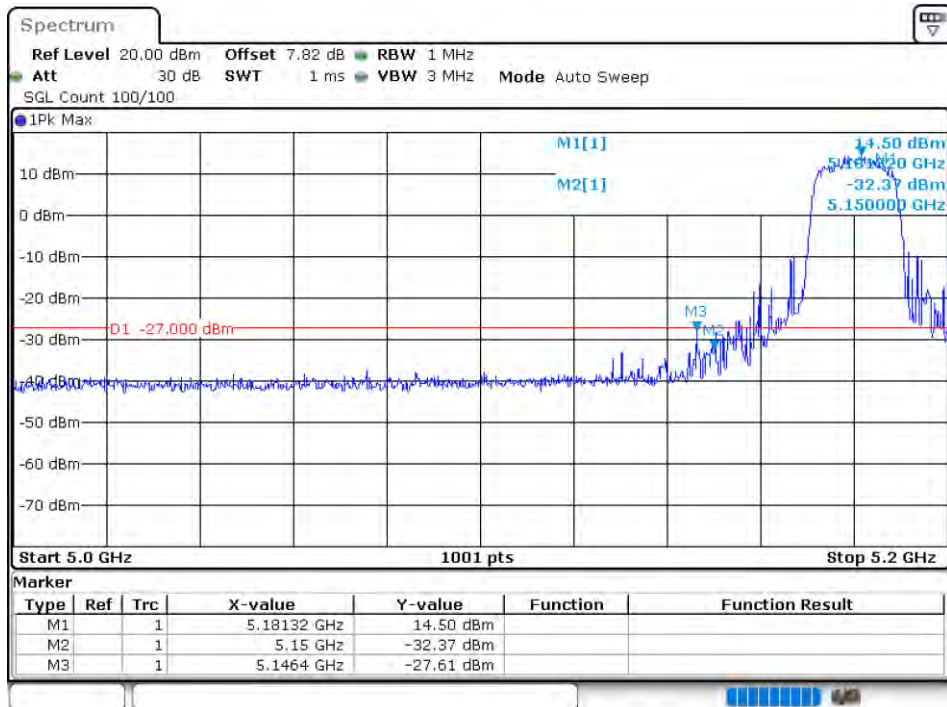
Band Edge NVNT a 5180MHz Low Ant1



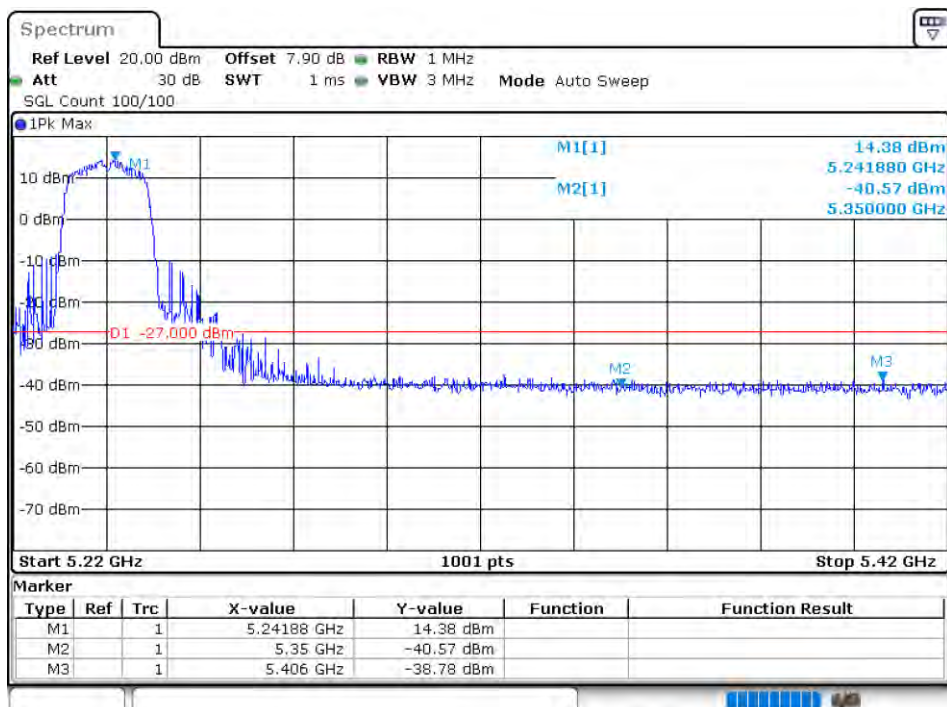
Band Edge NVNT a 5240MHz High Ant1



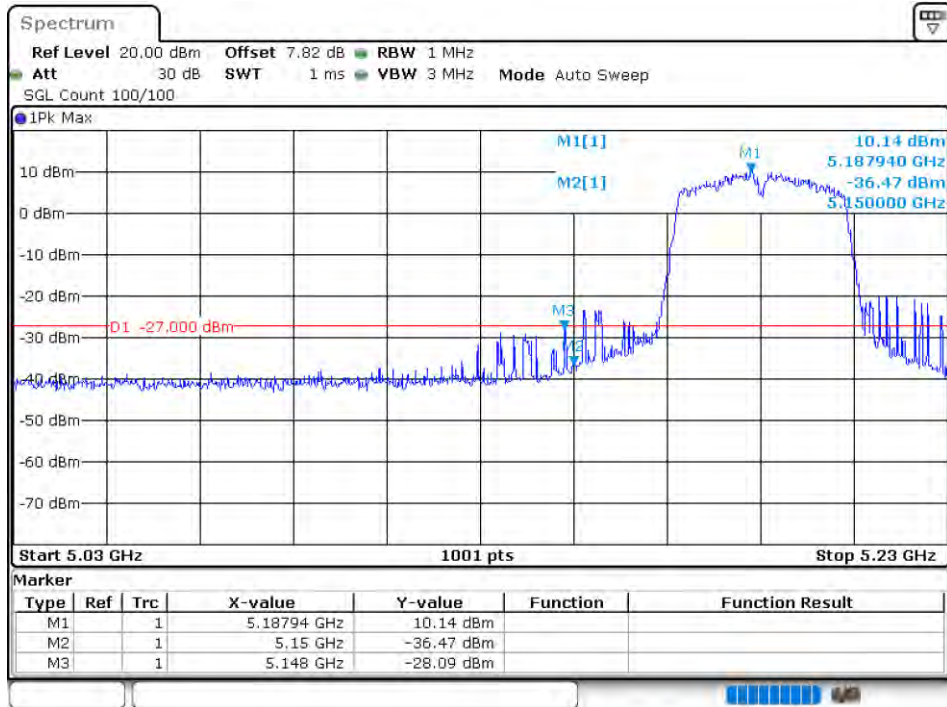
Band Edge NVNT n20 5180MHz Low Ant1



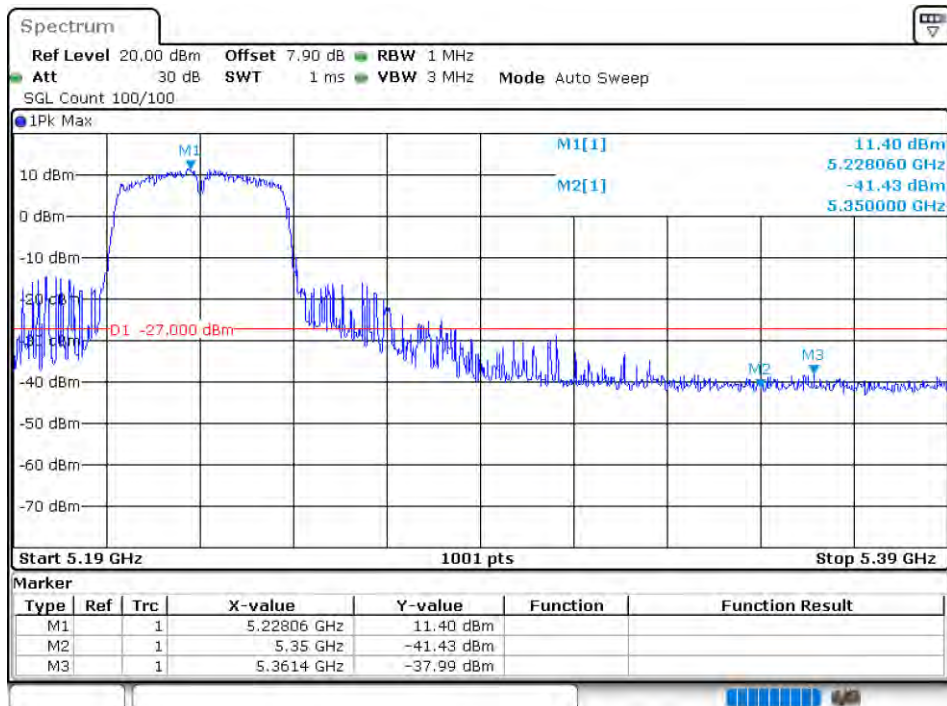
Band Edge NVNT n20 5240MHz High Ant1



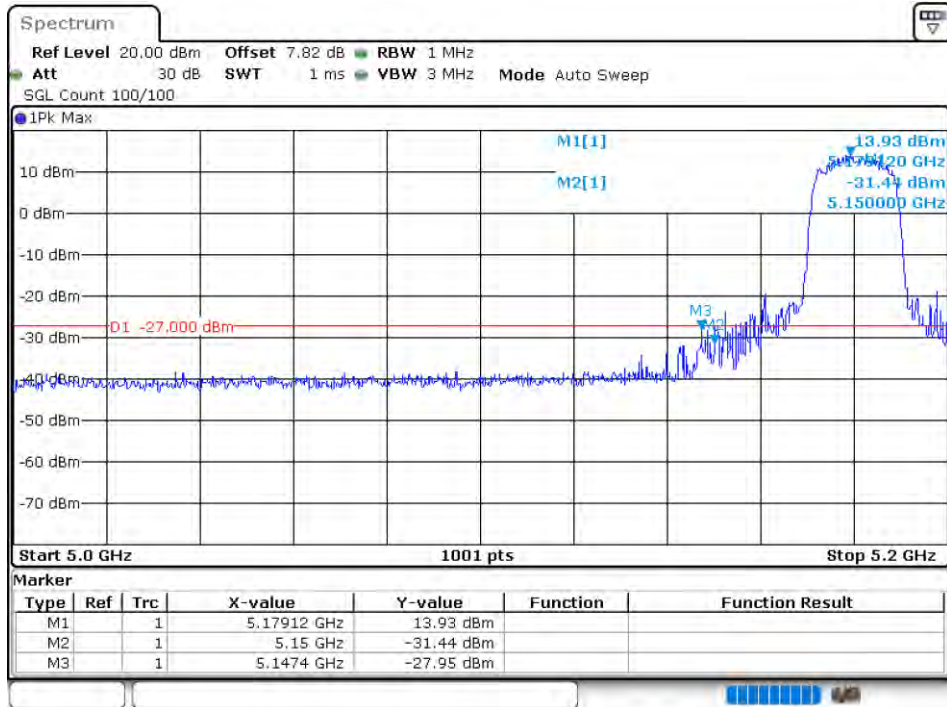
Band Edge NVNT n40 5190MHz Low Ant1



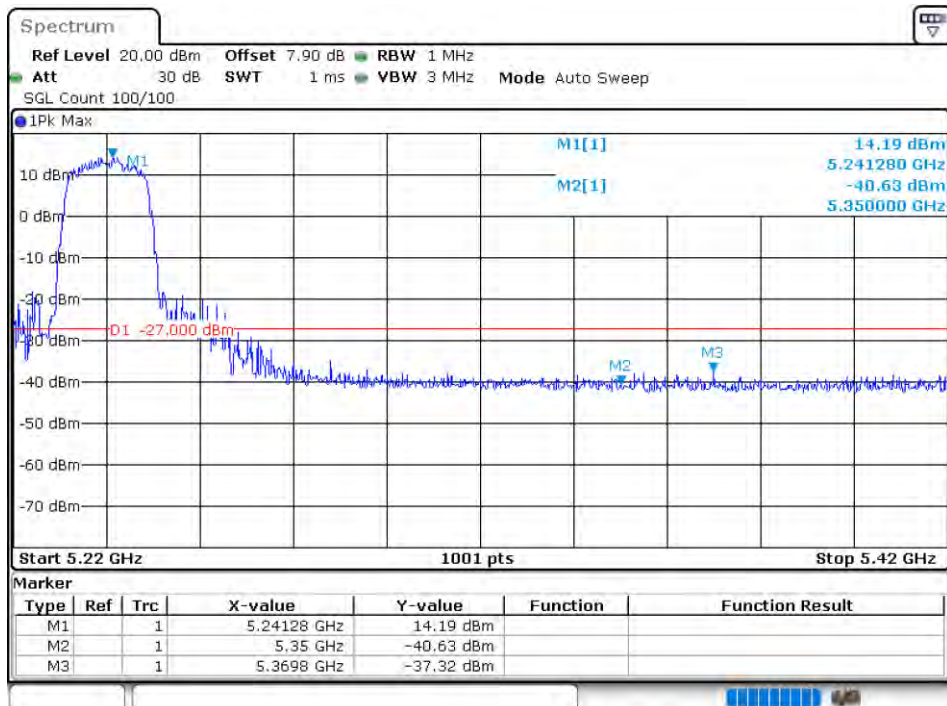
Band Edge NVNT n40 5230MHz High Ant1



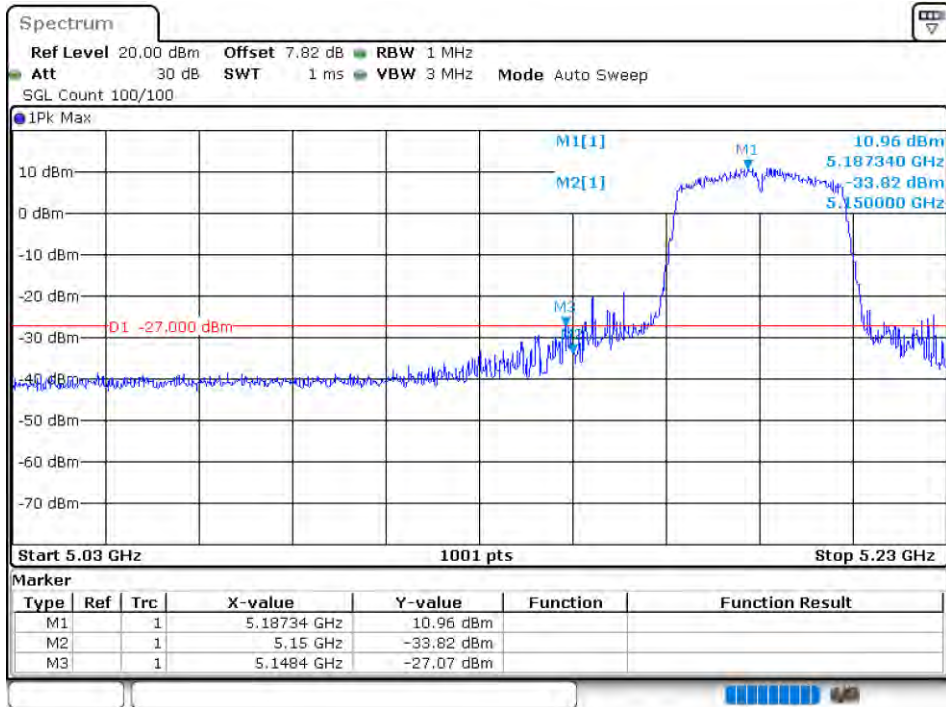
Band Edge NVNT ac20 5180MHz Low Ant1



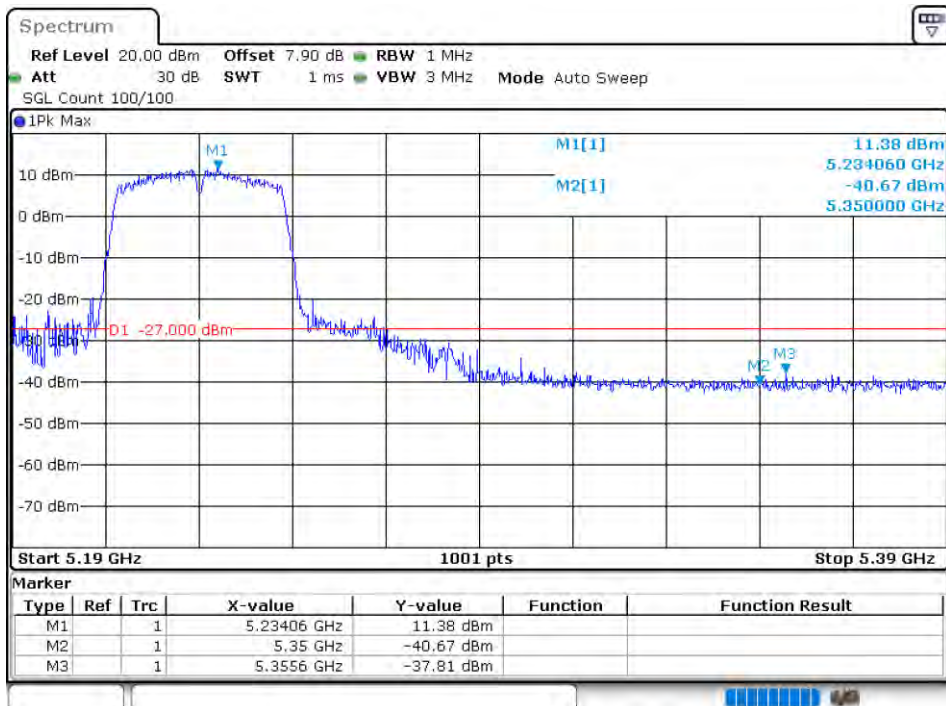
Band Edge NVNT ac20 5240MHz High Ant1



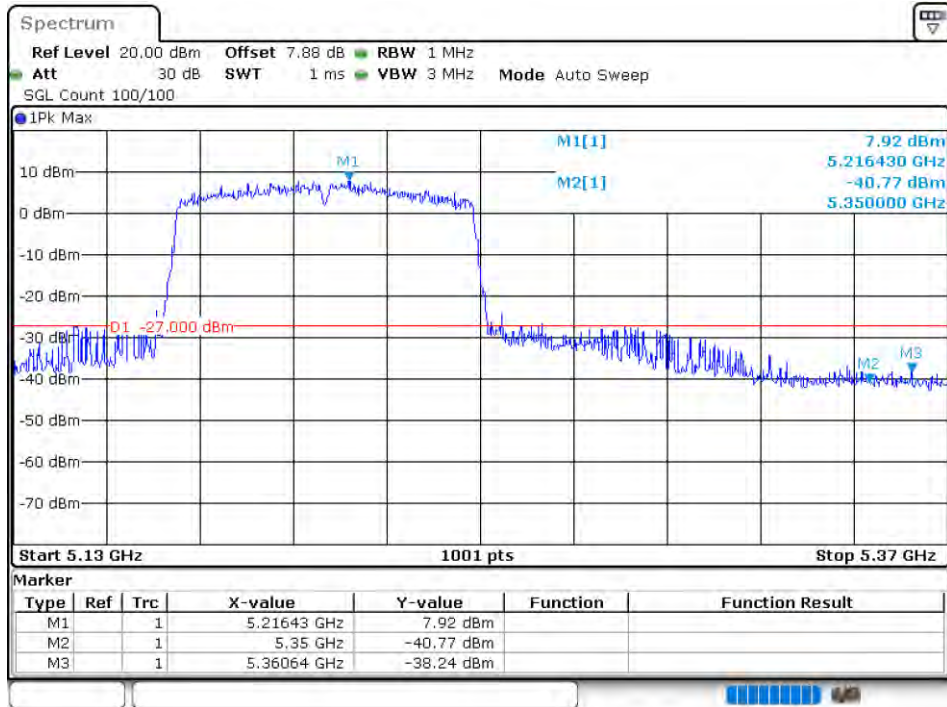
Band Edge NVNT ac40 5190MHz Low Ant1



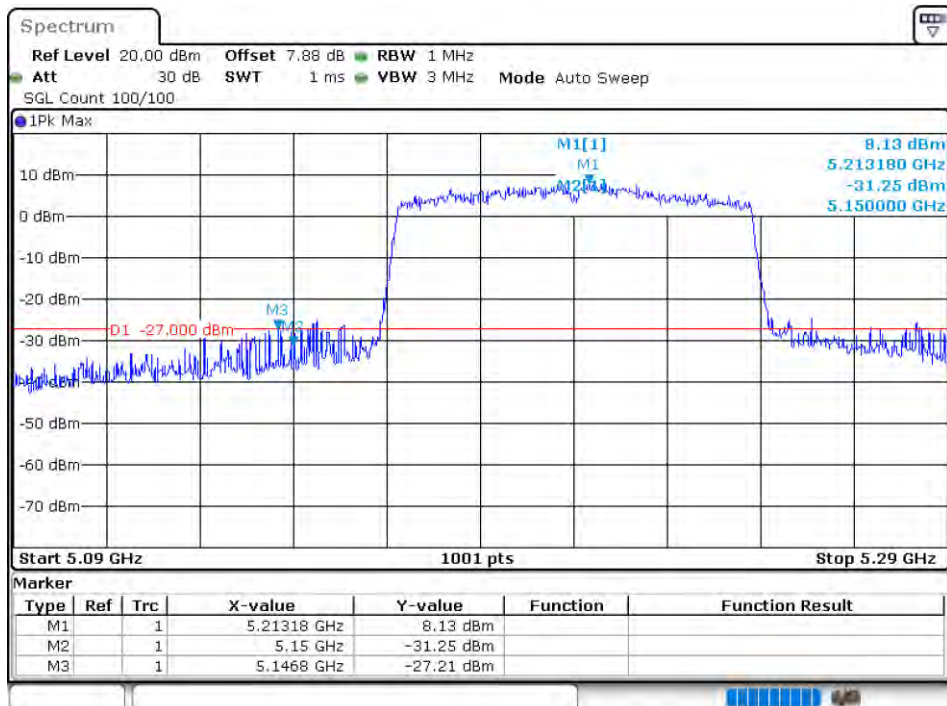
Band Edge NVNT ac40 5230MHz High Ant1



Band Edge NVNT ac80 5210MHz High Ant1



Band Edge NVNT ac80 5210MHz Low Ant1

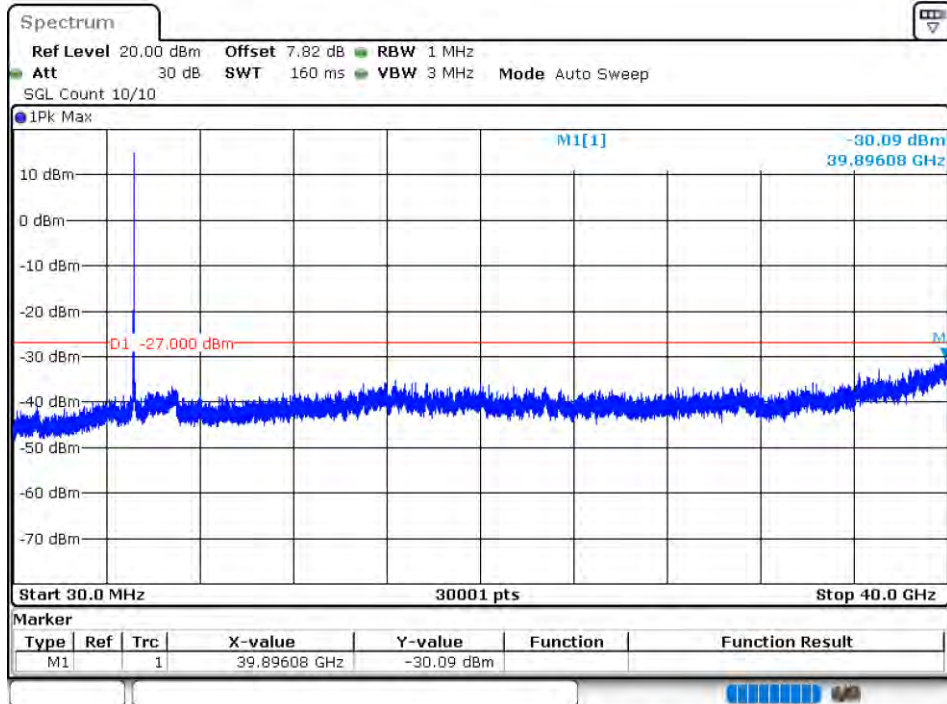


Conducted RF Spurious Emission

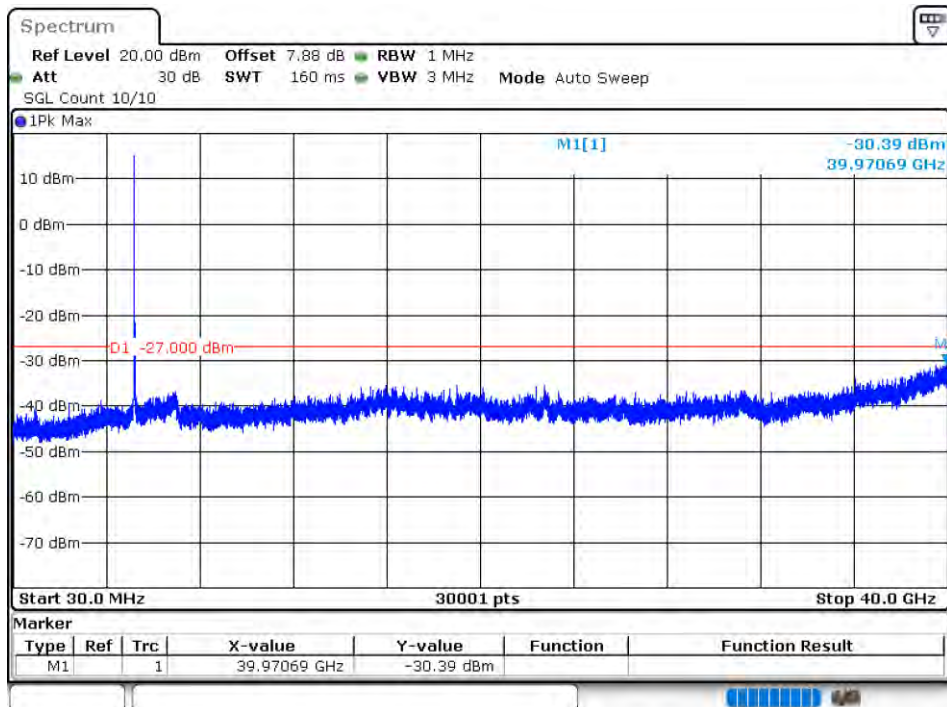
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5180	Ant1	-30.08	-27	Pass
NVNT	a	5200	Ant1	-30.39	-27	Pass
NVNT	a	5240	Ant1	-28.61	-27	Pass
NVNT	n20	5180	Ant1	-30.12	-27	Pass
NVNT	n20	5200	Ant1	-30.38	-27	Pass
NVNT	n20	5240	Ant1	-30.33	-27	Pass
NVNT	n40	5190	Ant1	-31.38	-27	Pass
NVNT	n40	5230	Ant1	-30.71	-27	Pass
NVNT	ac20	5180	Ant1	-30.94	-27	Pass
NVNT	ac20	5200	Ant1	-30.63	-27	Pass
NVNT	ac20	5240	Ant1	-29.79	-27	Pass
NVNT	ac40	5190	Ant1	-30.59	-27	Pass
NVNT	ac40	5230	Ant1	-30.21	-27	Pass
NVNT	ac80	5210	Ant1	-30.34	-27	Pass

Test Graphs

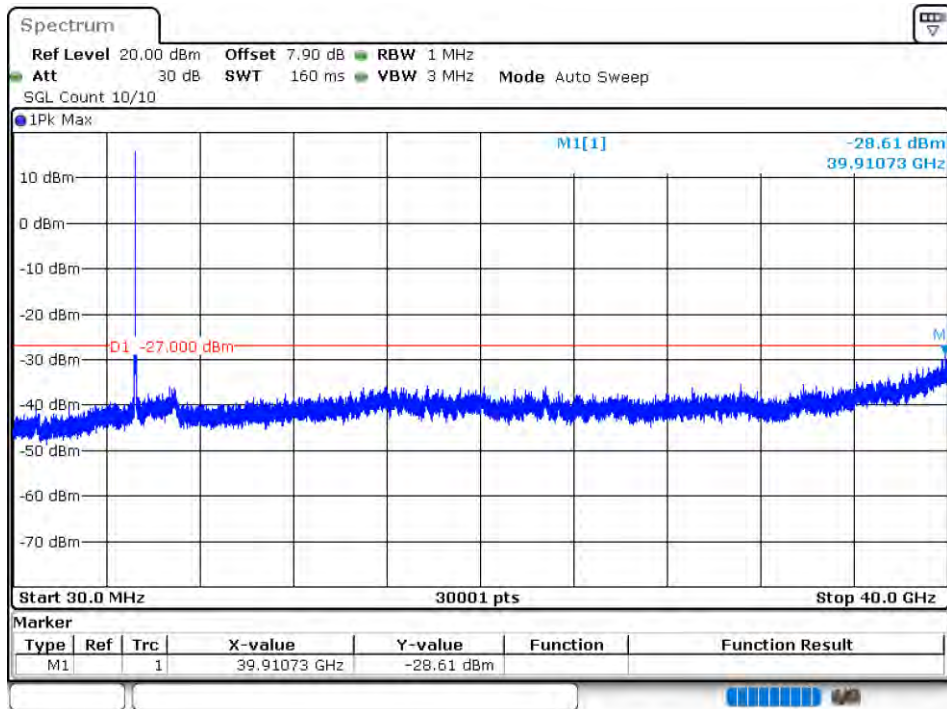
Tx. Spurious NVNT a 5180MHz Ant1 Emission



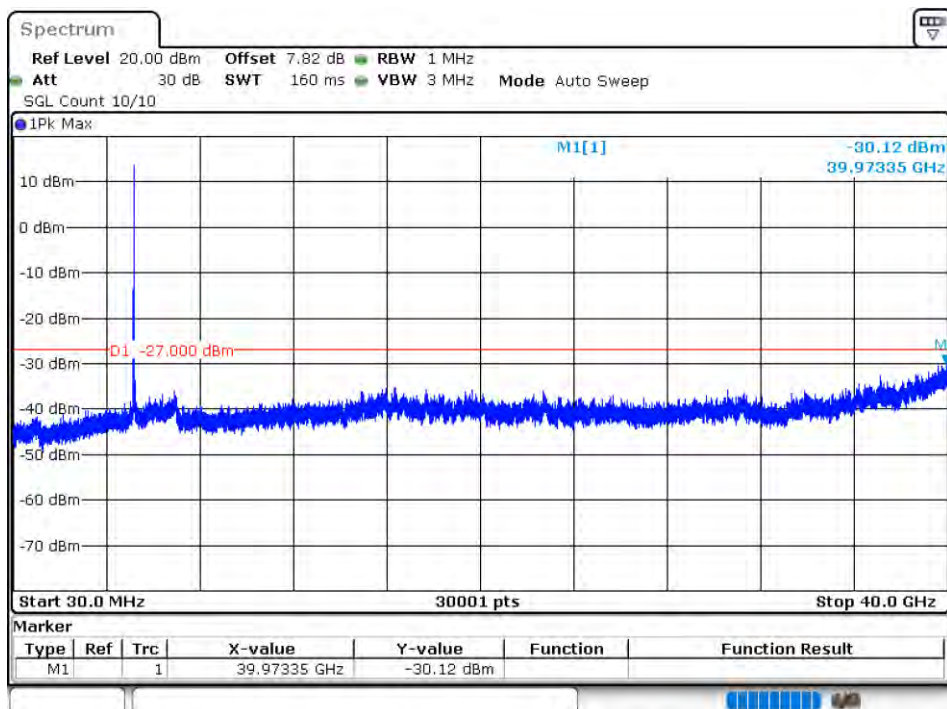
Tx. Spurious NVNT a 5200MHz Ant1 Emission



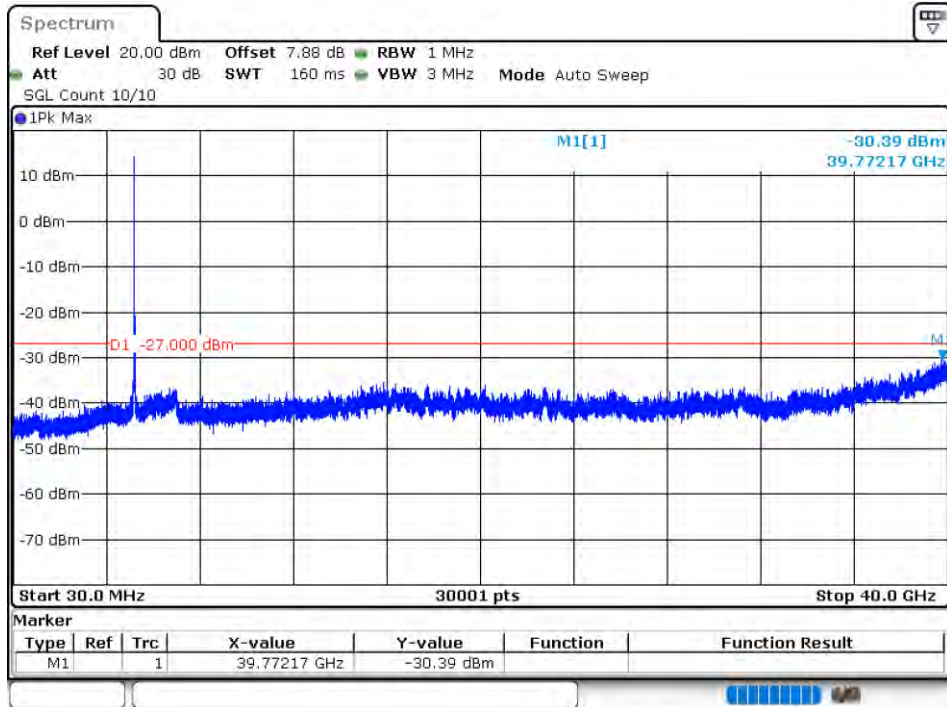
Tx. Spurious NVNT a 5240MHz Ant1 Emission



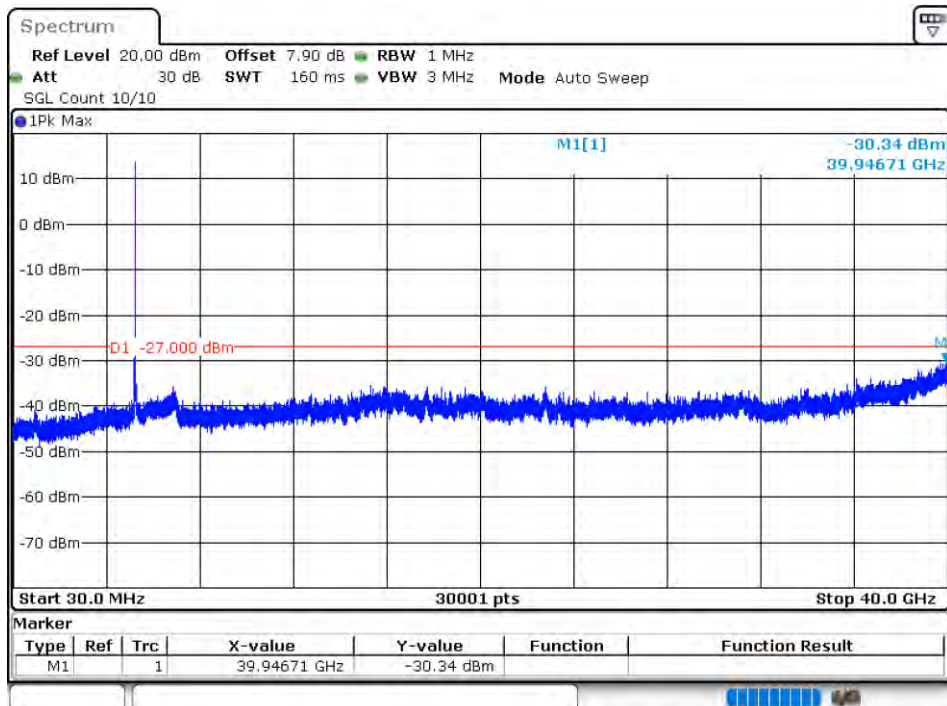
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



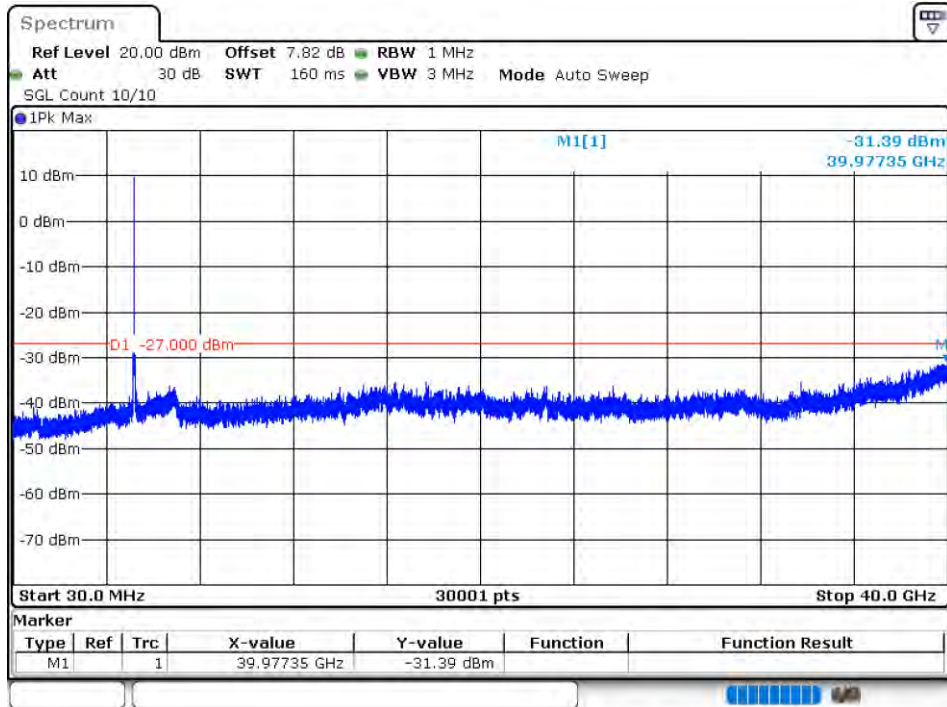
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



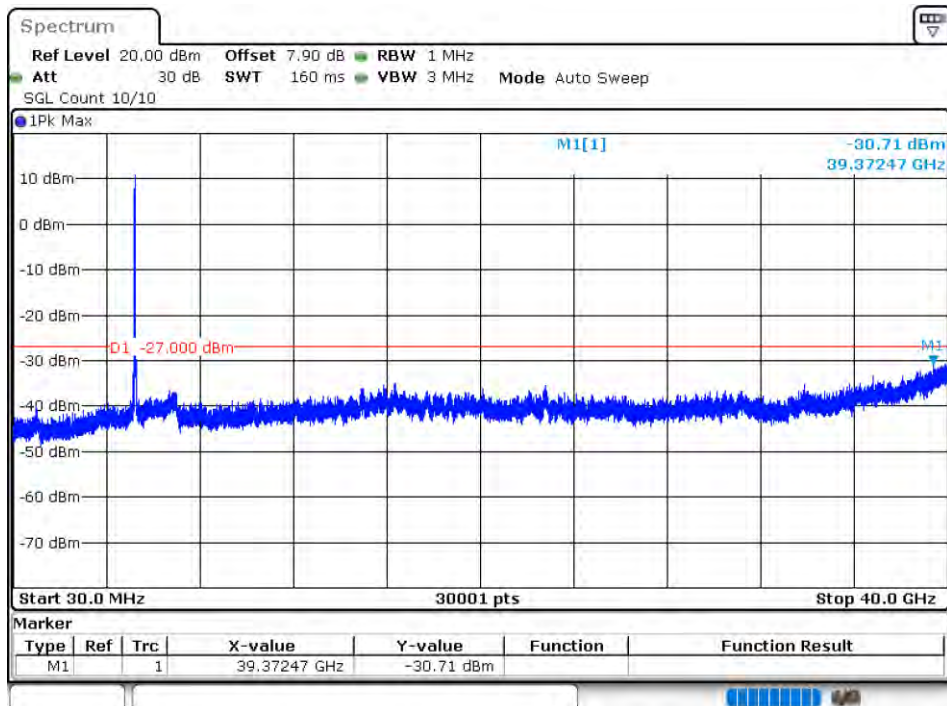
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



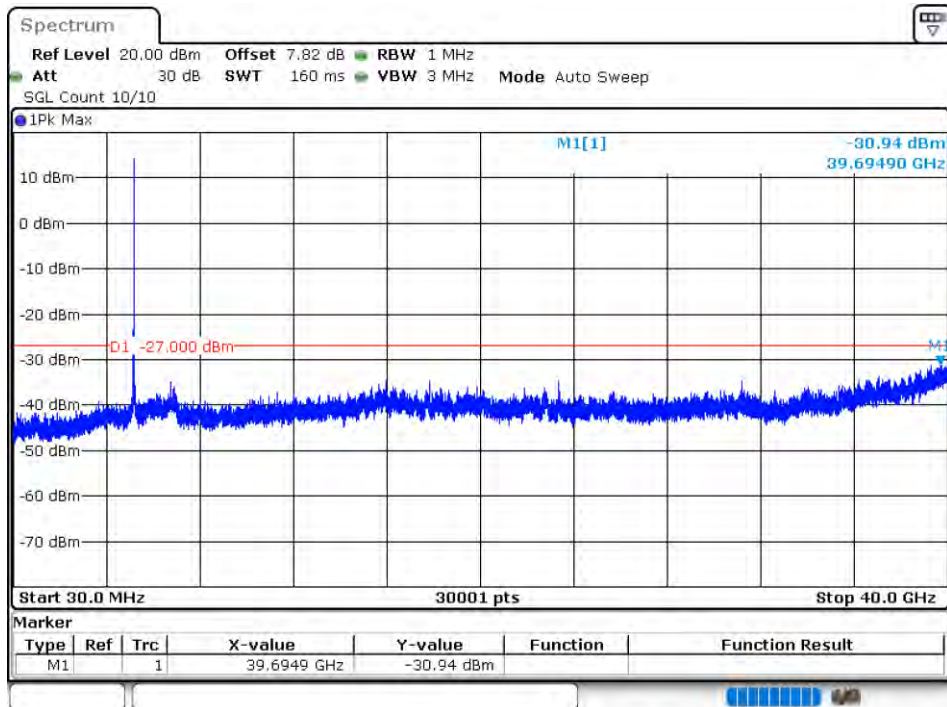
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



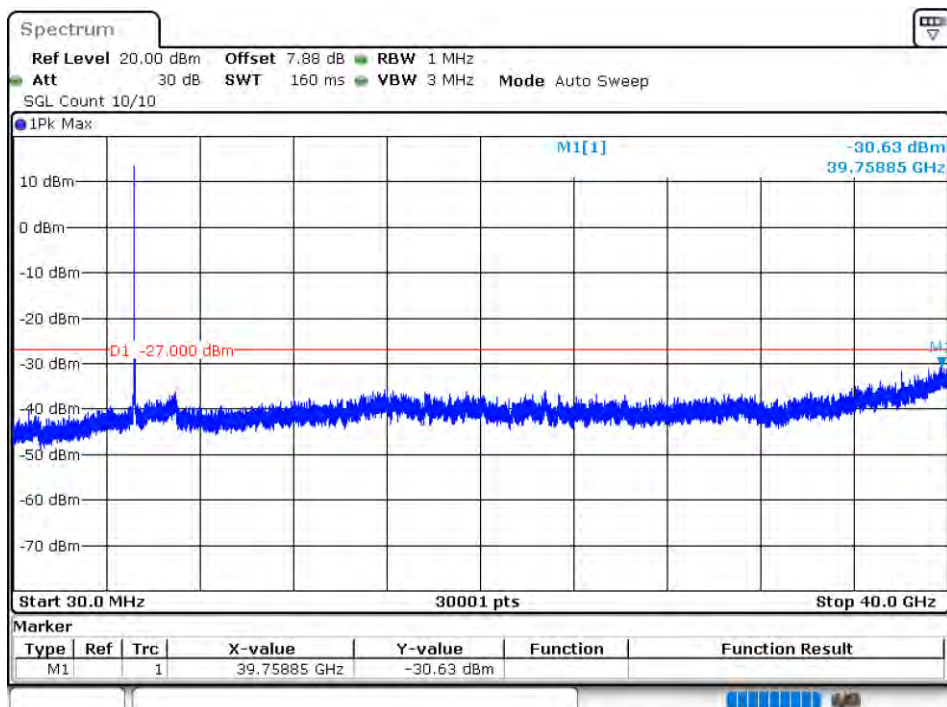
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



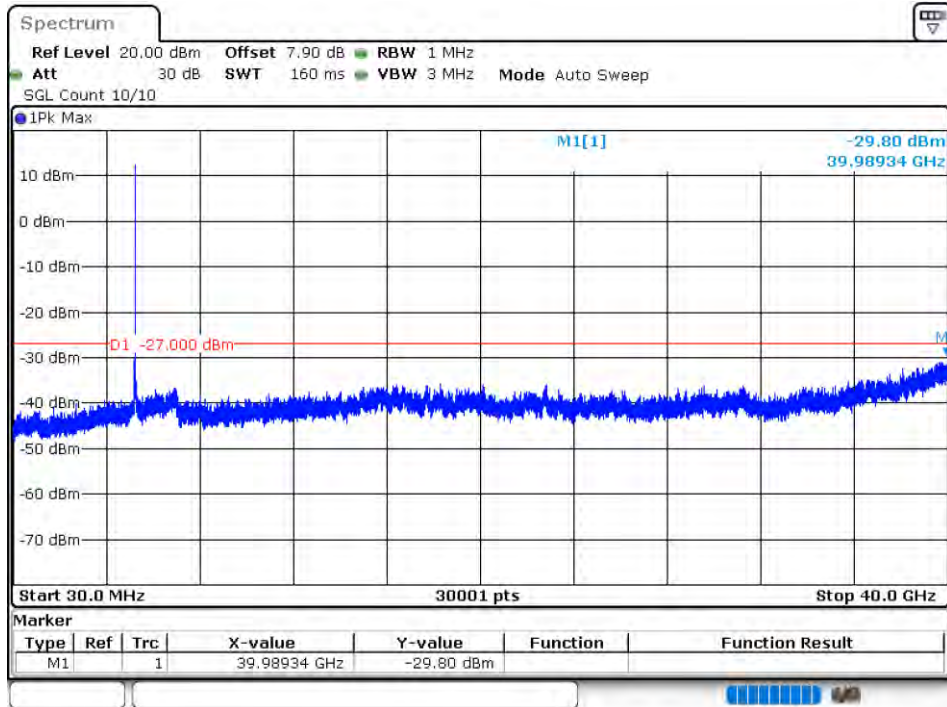
Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



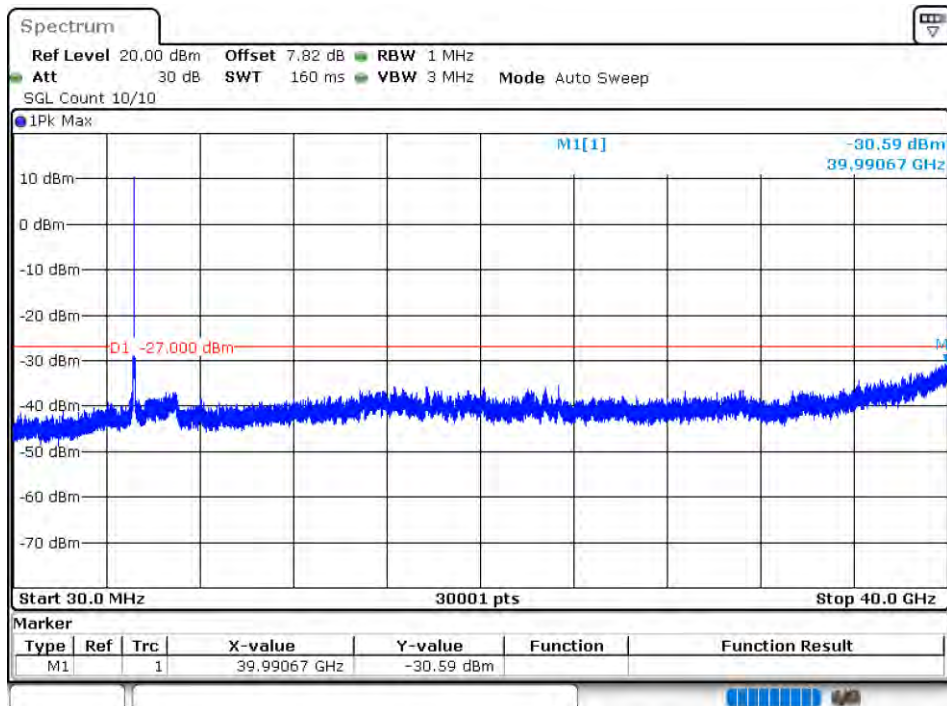
Tx. Spurious NVNT ac20 5200MHz Ant1 Emission



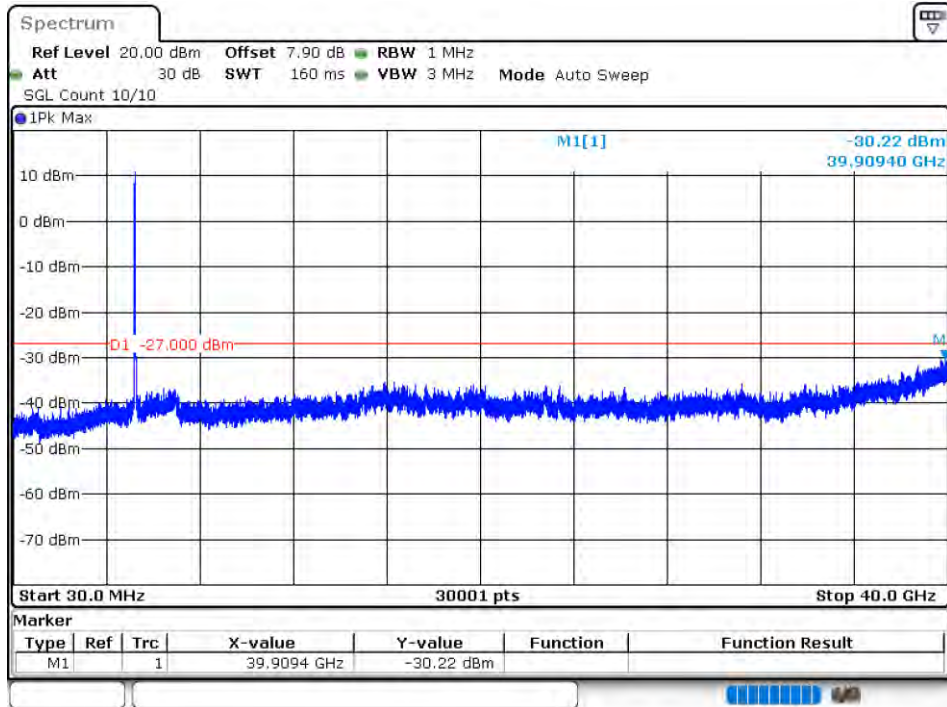
Tx. Spurious NVNT ac20 5240MHz Ant1 Emission



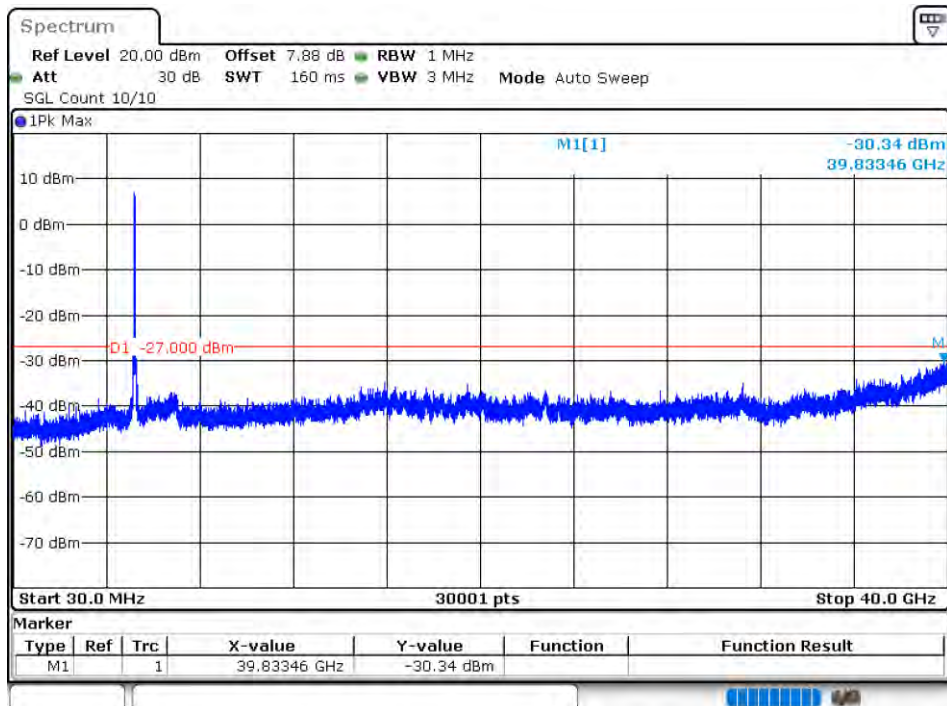
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



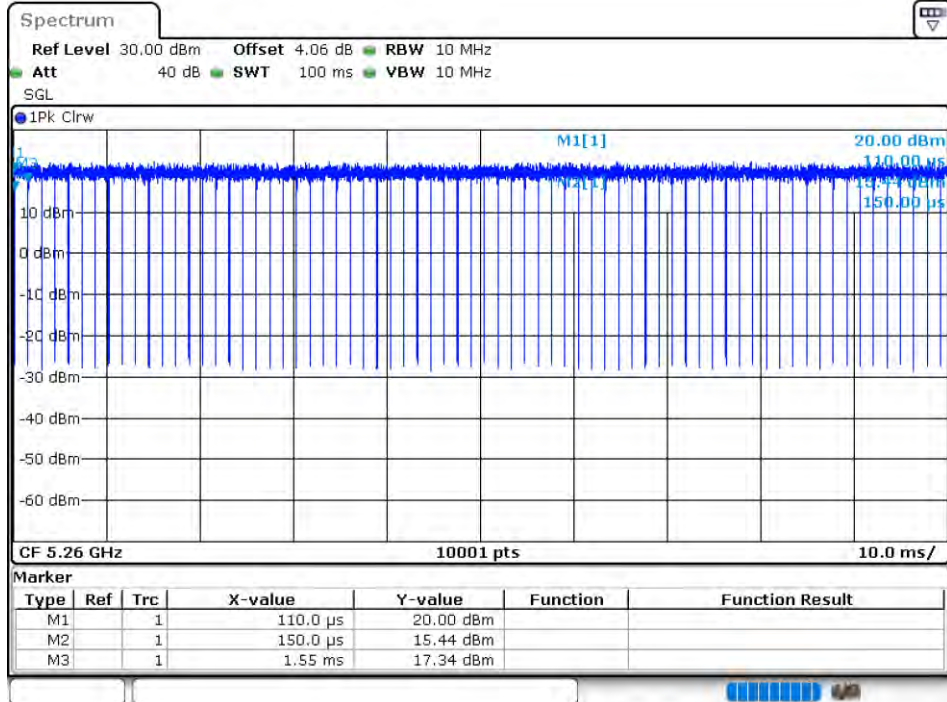
5.3G WIFI

Duty Cycle

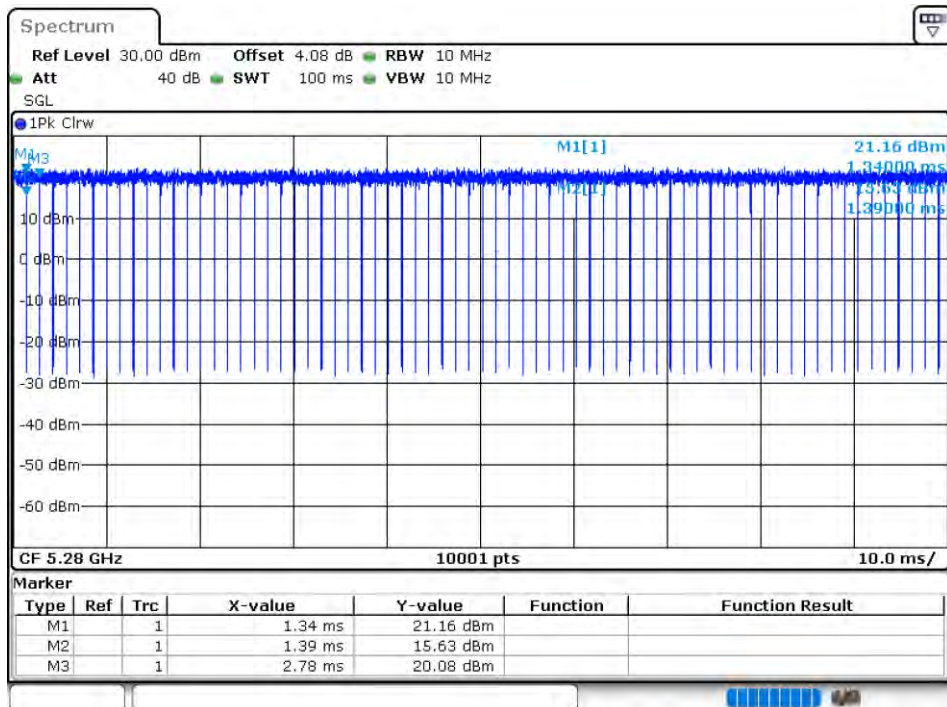
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.59	0.11	0.71
NVNT	a	5280	Ant1	97.6	0.11	0.72
NVNT	a	5320	Ant1	97.56	0.11	0.71
NVNT	n20	5260	Ant1	97.4	0.11	0.77
NVNT	n20	5280	Ant1	97.4	0.11	0.77
NVNT	n20	5320	Ant1	97.44	0.11	0.77
NVNT	n40	5270	Ant1	95.06	0.22	1.54
NVNT	n40	5310	Ant1	95.06	0.22	1.54
NVNT	ac20	5260	Ant1	97.44	0.11	0.76
NVNT	ac20	5280	Ant1	97.46	0.11	0.76
NVNT	ac20	5320	Ant1	97.45	0.11	0.76
NVNT	ac40	5270	Ant1	95.12	0.22	1.54
NVNT	ac40	5310	Ant1	95.08	0.22	1.54
NVNT	ac80	5290	Ant1	90.67	0.43	3.12

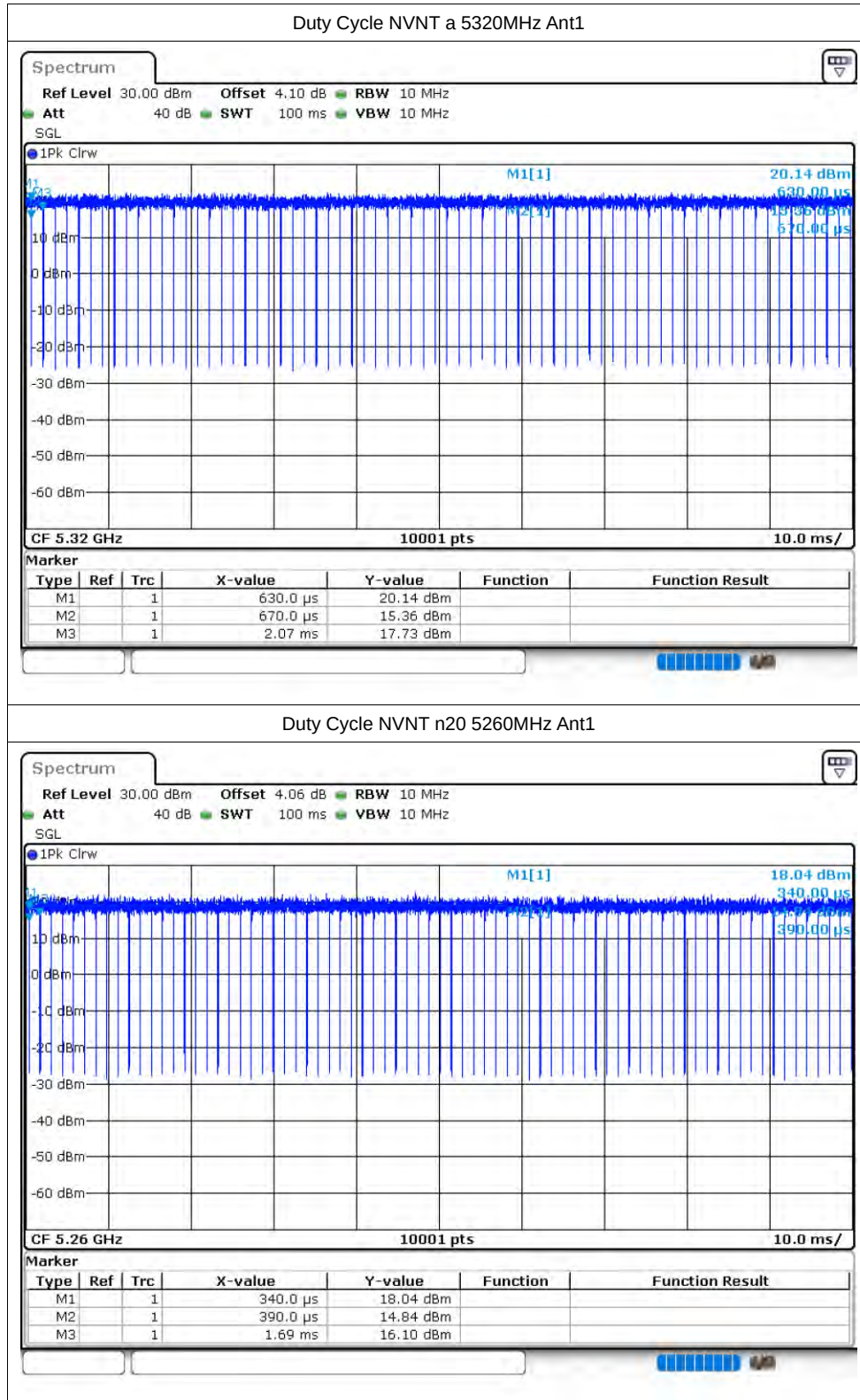
Test Graphs

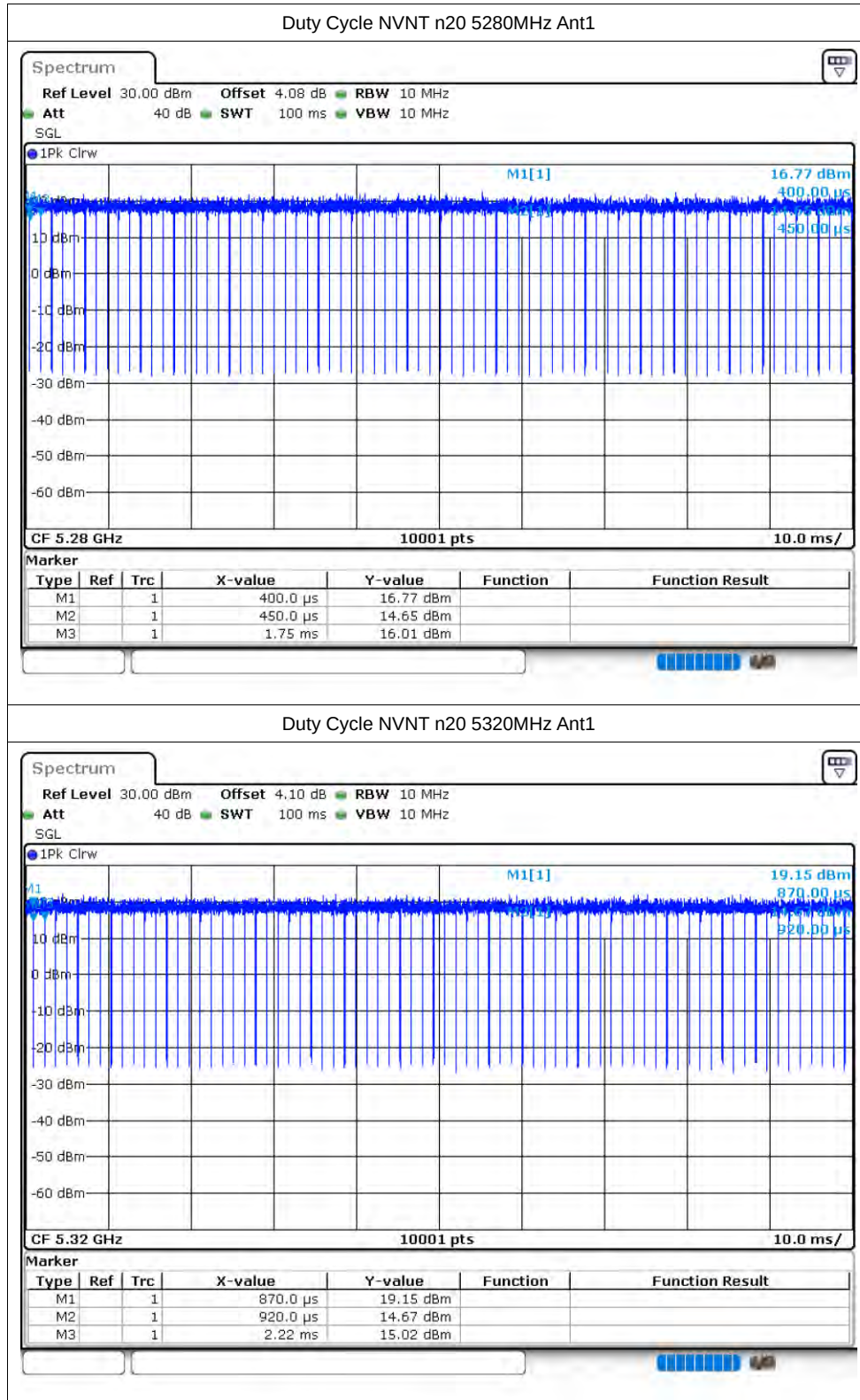
Duty Cycle NVNT a 5260MHz Ant1



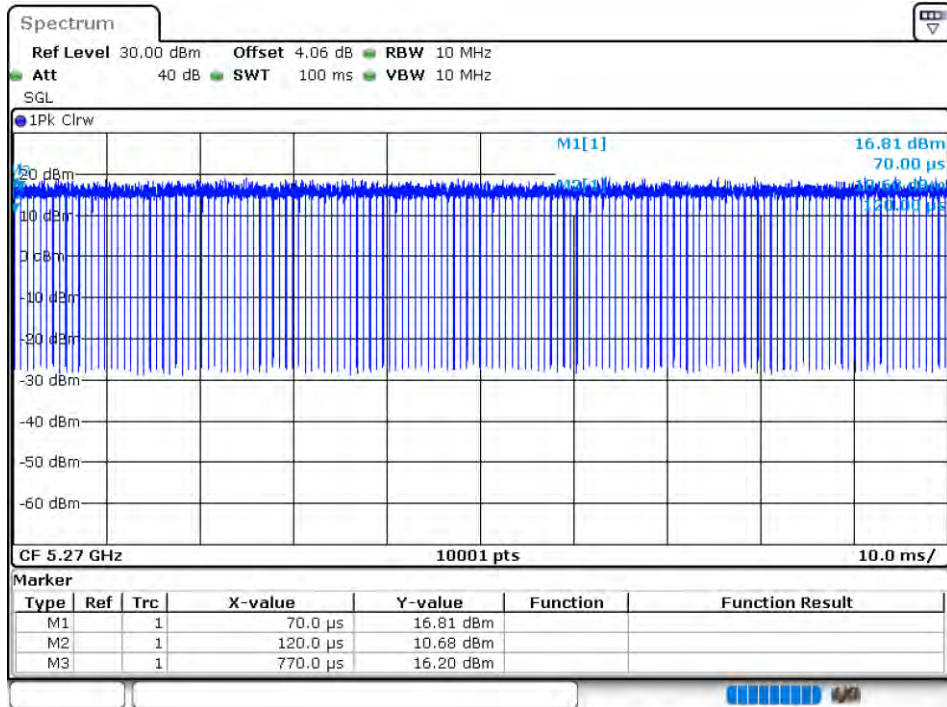
Duty Cycle NVNT a 5280MHz Ant1



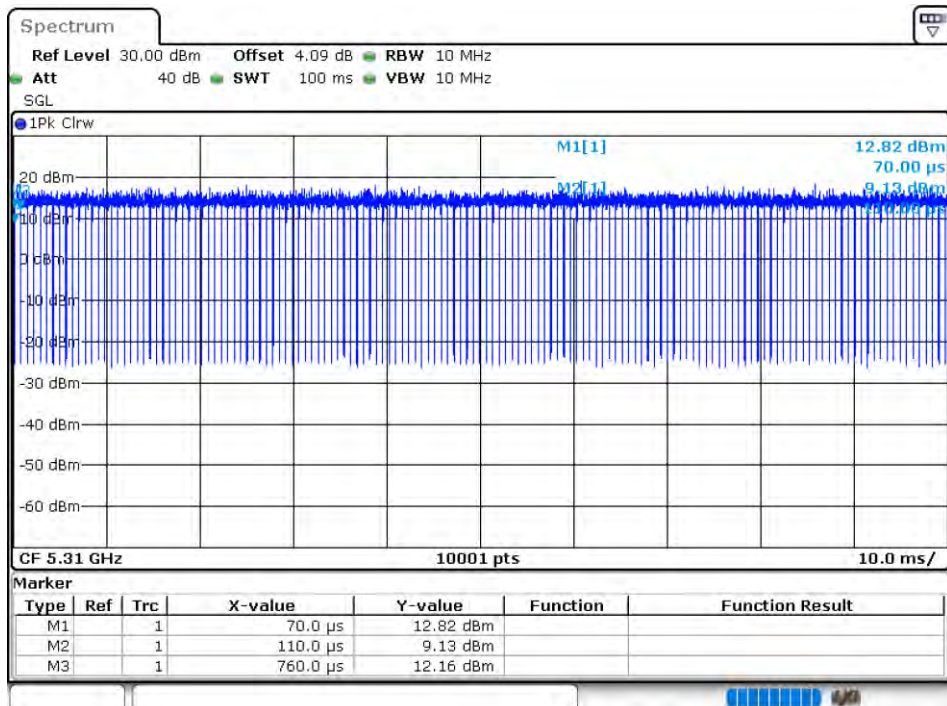


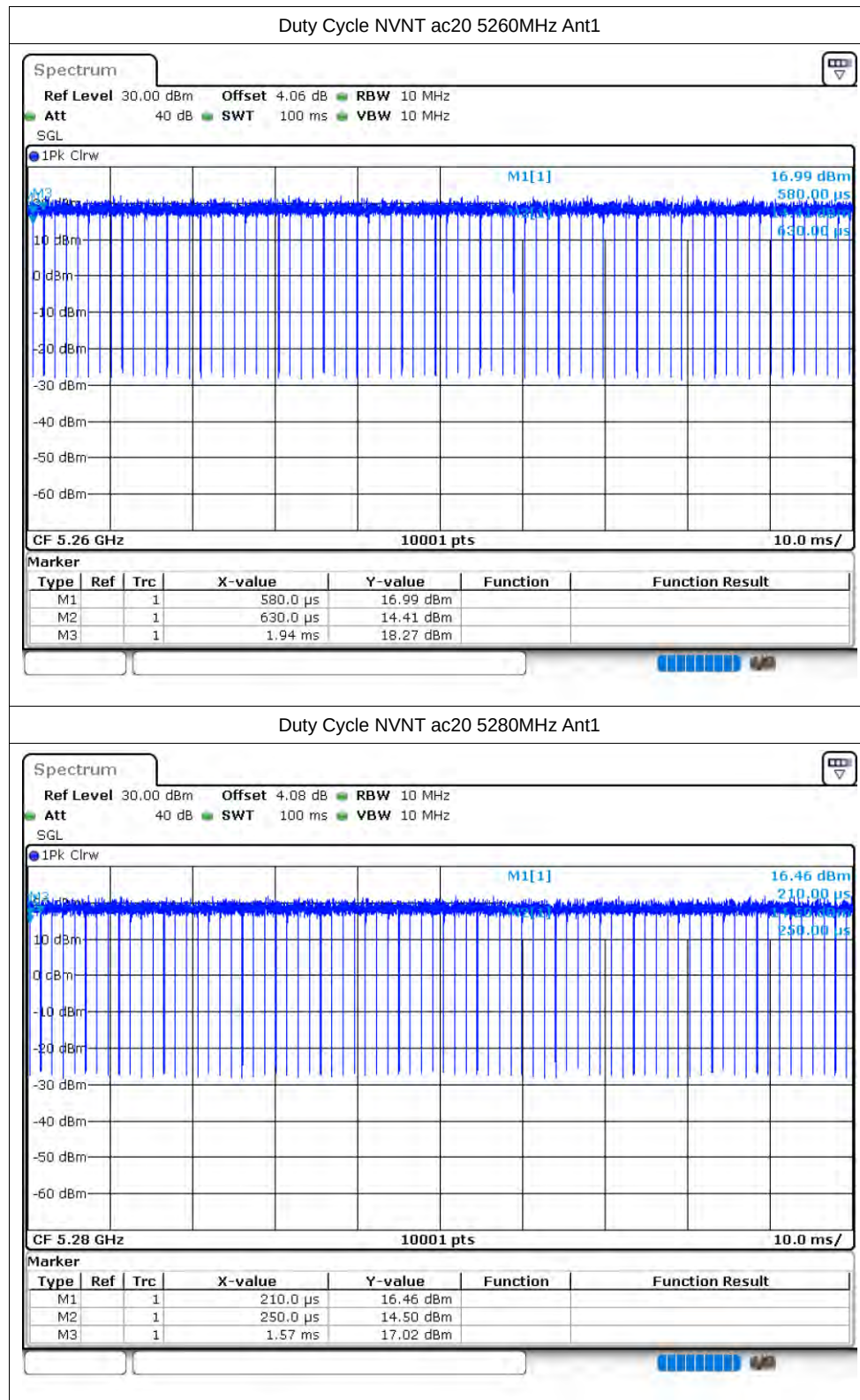


Duty Cycle NVNT n40 5270MHz Ant1

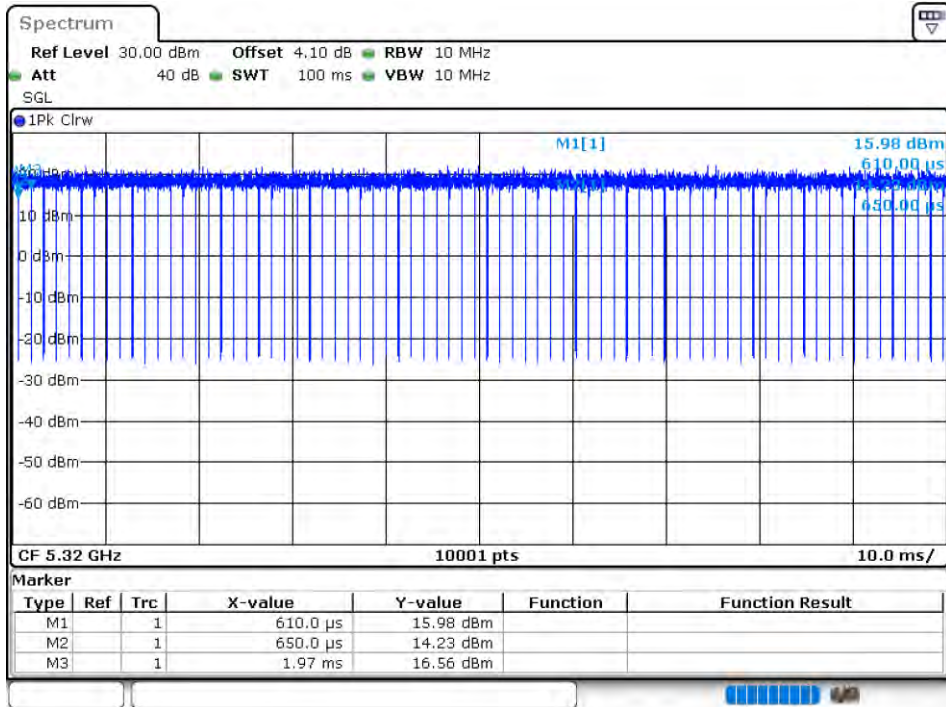


Duty Cycle NVNT n40 5310MHz Ant1

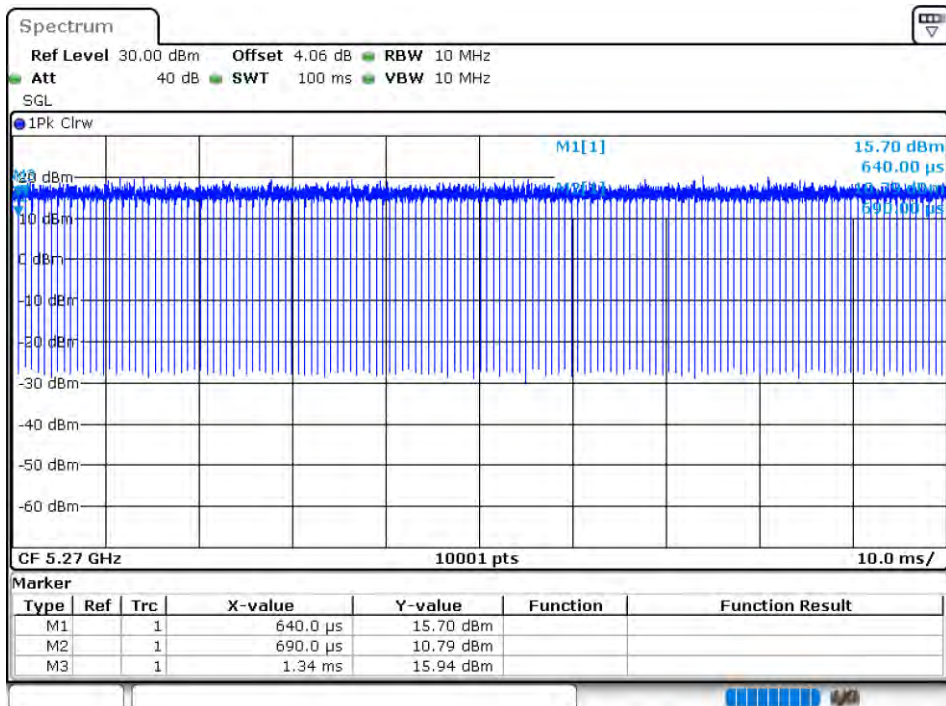




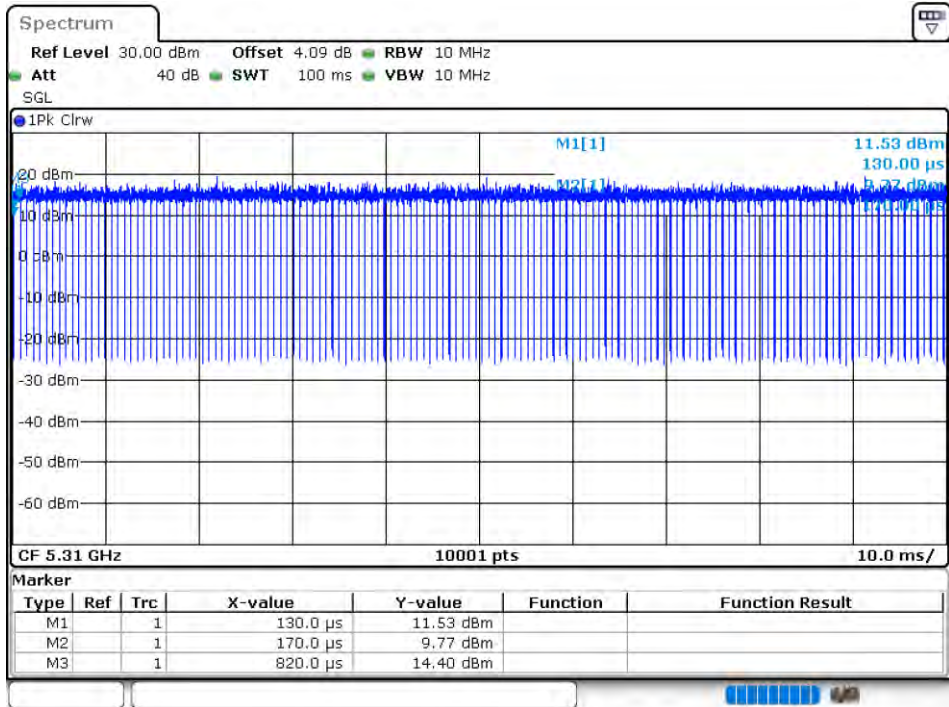
Duty Cycle NVNT ac20 5320MHz Ant1



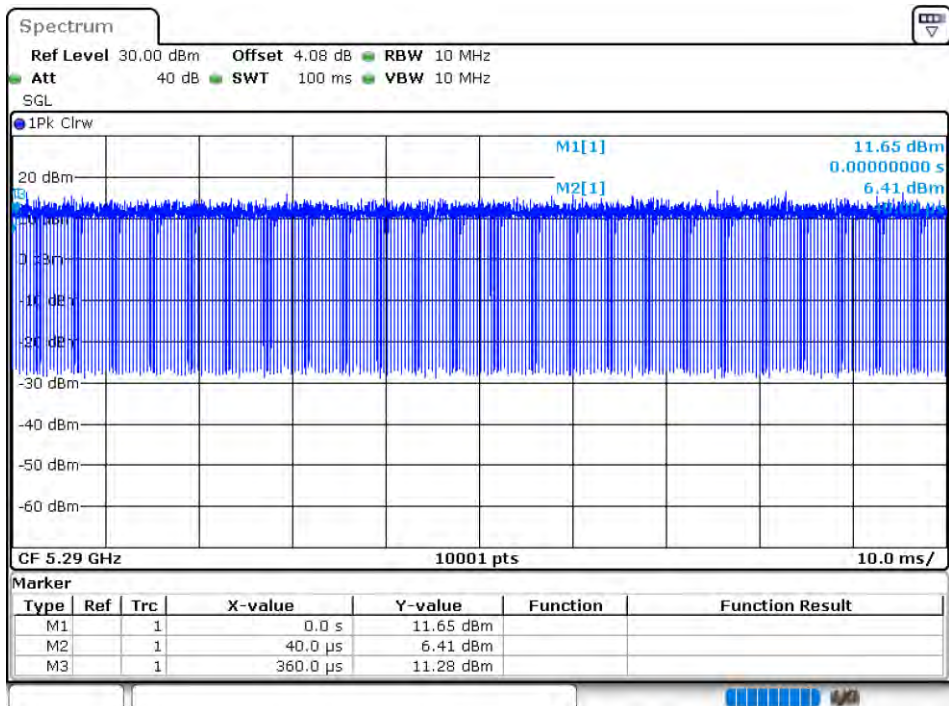
Duty Cycle NVNT ac40 5270MHz Ant1



Duty Cycle NVNT ac40 5310MHz Ant1



Duty Cycle NVNT ac80 5290MHz Ant1



Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	14.99	24	Pass
NVNT	a	5280	Ant1	15.22	24	Pass
NVNT	a	5320	Ant1	15.49	24	Pass
NVNT	n20	5260	Ant1	14.1	24	Pass
NVNT	n20	5280	Ant1	14.15	24	Pass
NVNT	n20	5320	Ant1	14.34	24	Pass
NVNT	n40	5270	Ant1	13.93	24	Pass
NVNT	n40	5310	Ant1	12.56	24	Pass
NVNT	ac20	5260	Ant1	14.15	24	Pass
NVNT	ac20	5280	Ant1	14.17	24	Pass
NVNT	ac20	5320	Ant1	14.19	24	Pass
NVNT	ac40	5270	Ant1	13.69	24	Pass
NVNT	ac40	5310	Ant1	13.12	24	Pass
NVNT	ac80	5290	Ant1	12.97	24	Pass

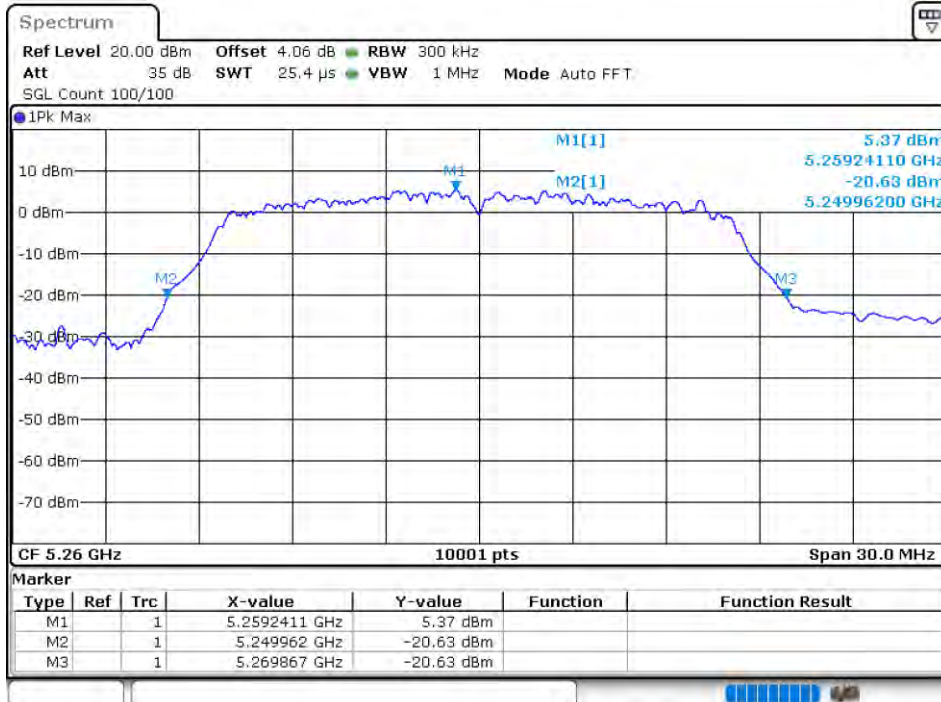
Note: The average power contains duty factor

-26dB Bandwidth

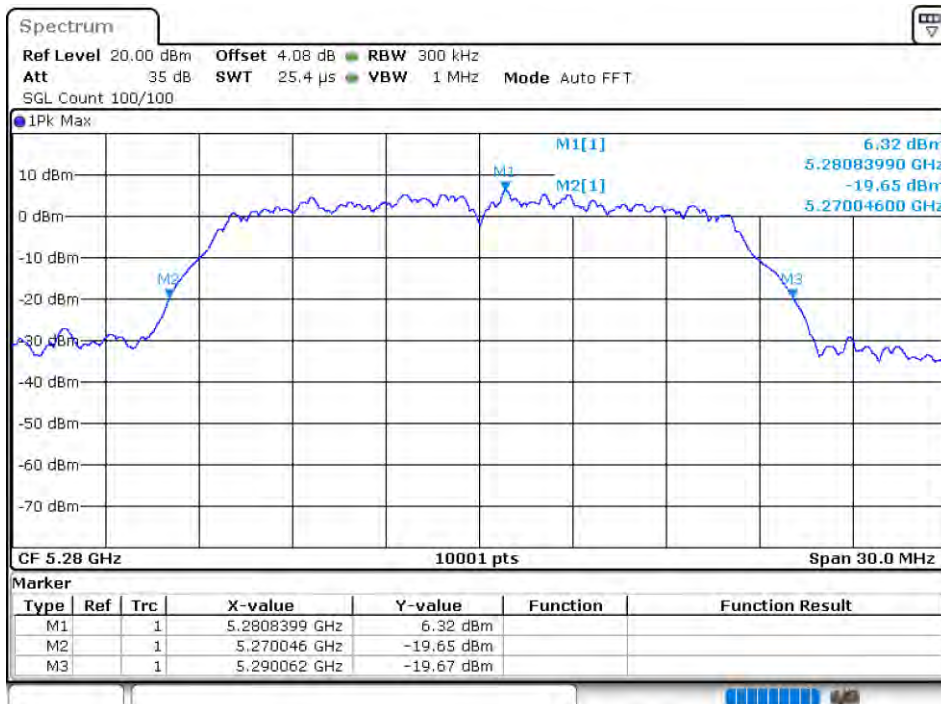
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	19.905	Pass
NVNT	a	5280	Ant1	20.016	Pass
NVNT	a	5320	Ant1	20.106	Pass
NVNT	n20	5260	Ant1	20.619	Pass
NVNT	n20	5280	Ant1	20.01	Pass
NVNT	n20	5320	Ant1	20.226	Pass
NVNT	n40	5270	Ant1	40.71	Pass
NVNT	n40	5310	Ant1	40.908	Pass
NVNT	ac20	5260	Ant1	20.043	Pass
NVNT	ac20	5280	Ant1	19.791	Pass
NVNT	ac20	5320	Ant1	20.478	Pass
NVNT	ac40	5270	Ant1	40.62	Pass
NVNT	ac40	5310	Ant1	40.998	Pass
NVNT	ac80	5290	Ant1	80.904	Pass

Test Graphs

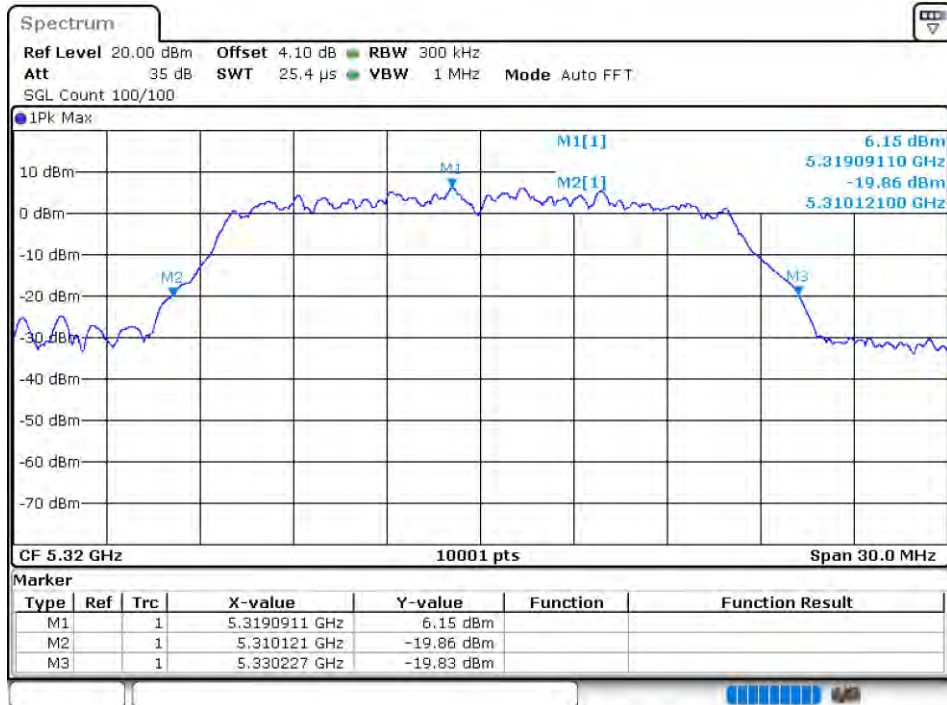
-26dB Bandwidth NVNT a 5260MHz Ant1



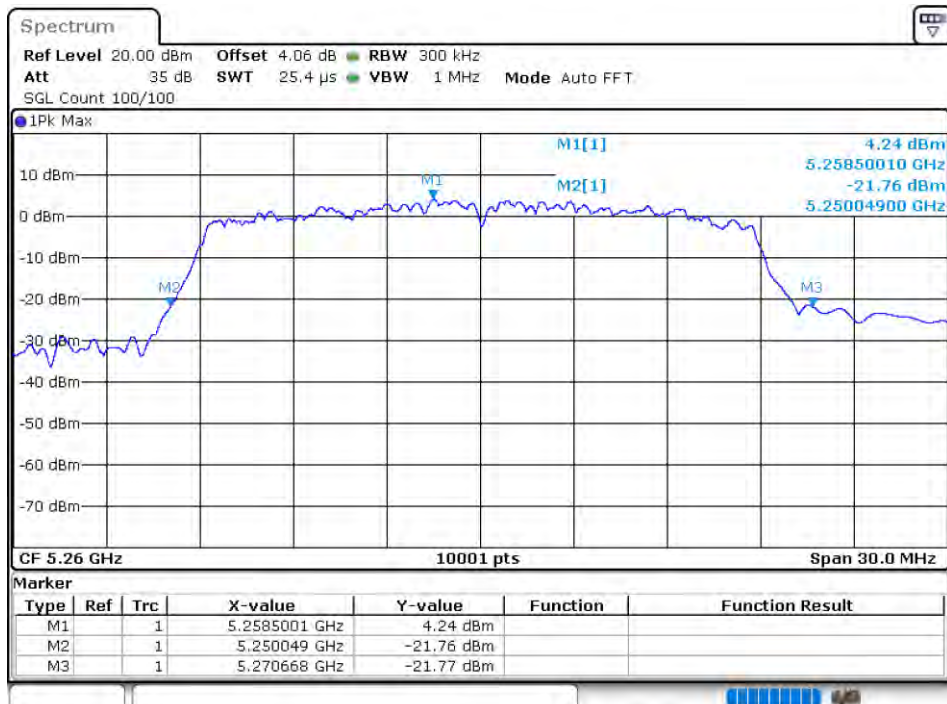
-26dB Bandwidth NVNT a 5280MHz Ant1



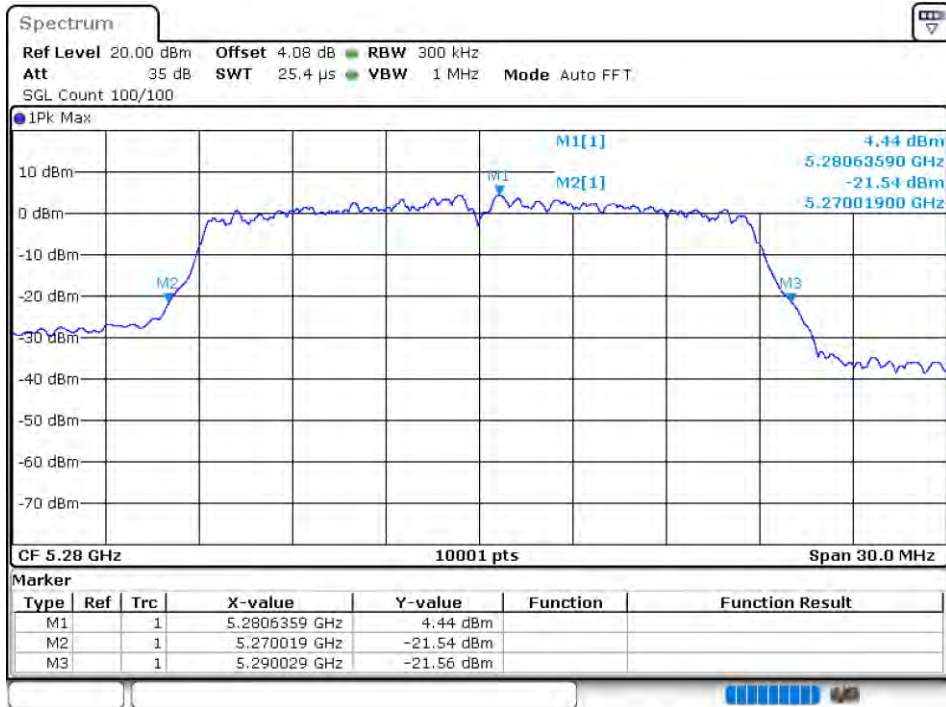
-26dB Bandwidth NVNT a 5320MHz Ant1



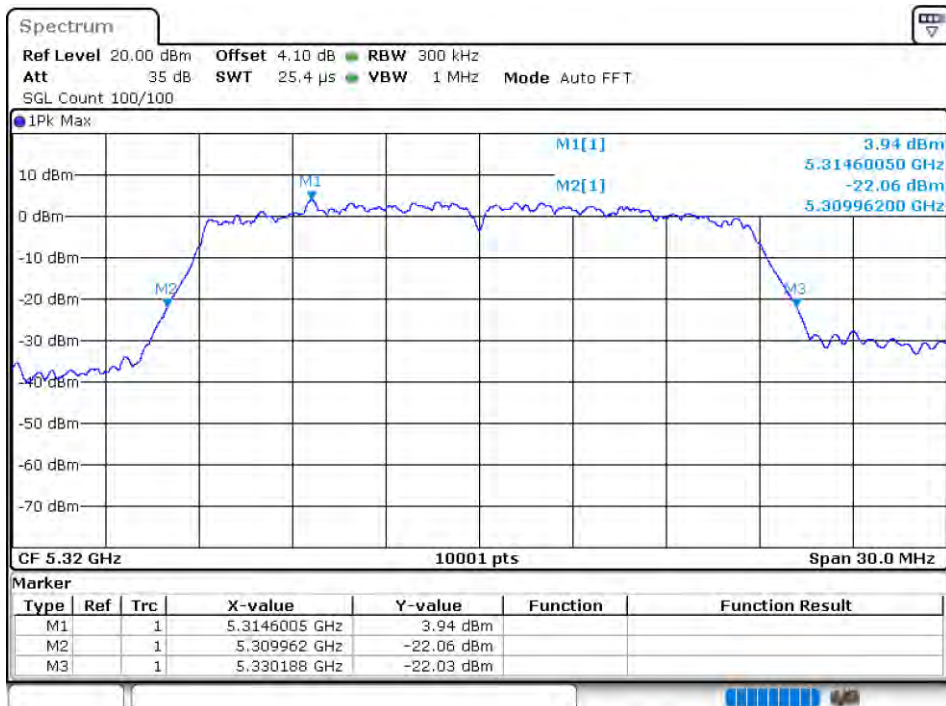
-26dB Bandwidth NVNT n20 5260MHz Ant1



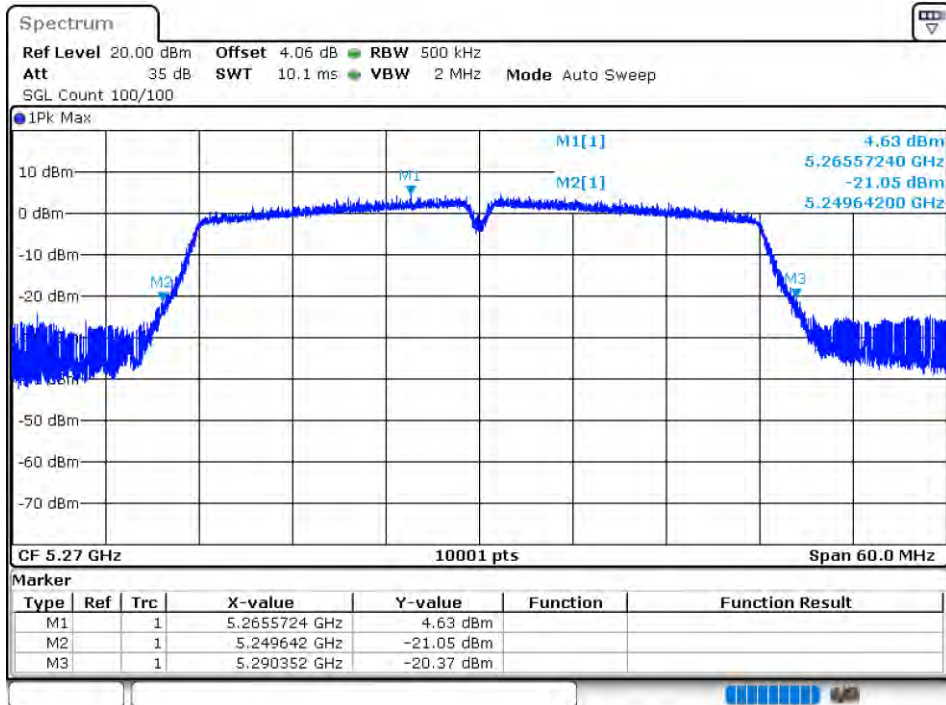
-26dB Bandwidth NVNT n20 5280MHz Ant1



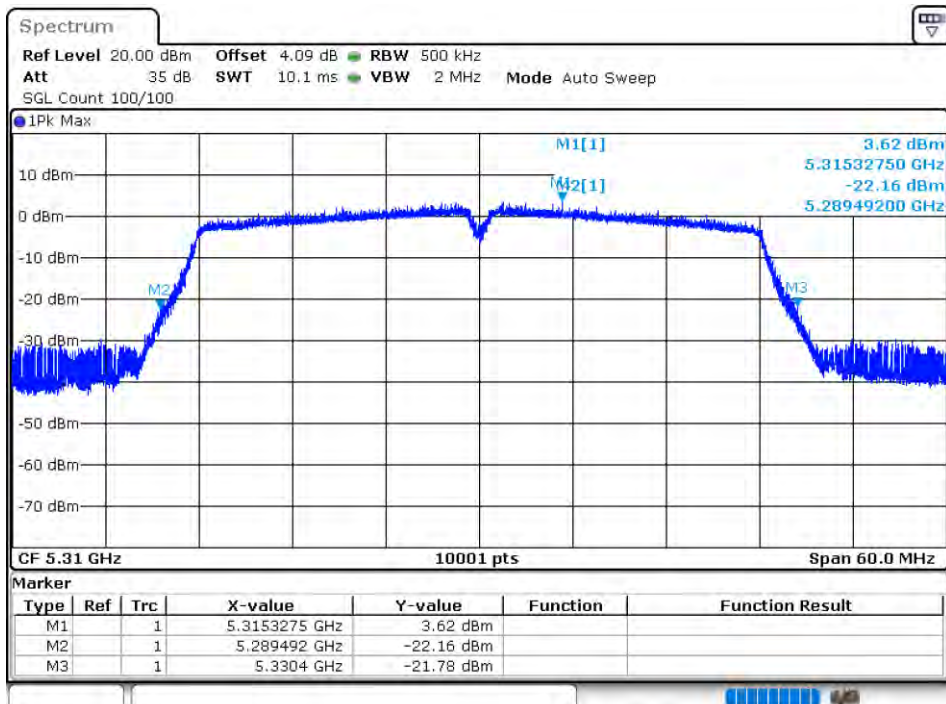
-26dB Bandwidth NVNT n20 5320MHz Ant1



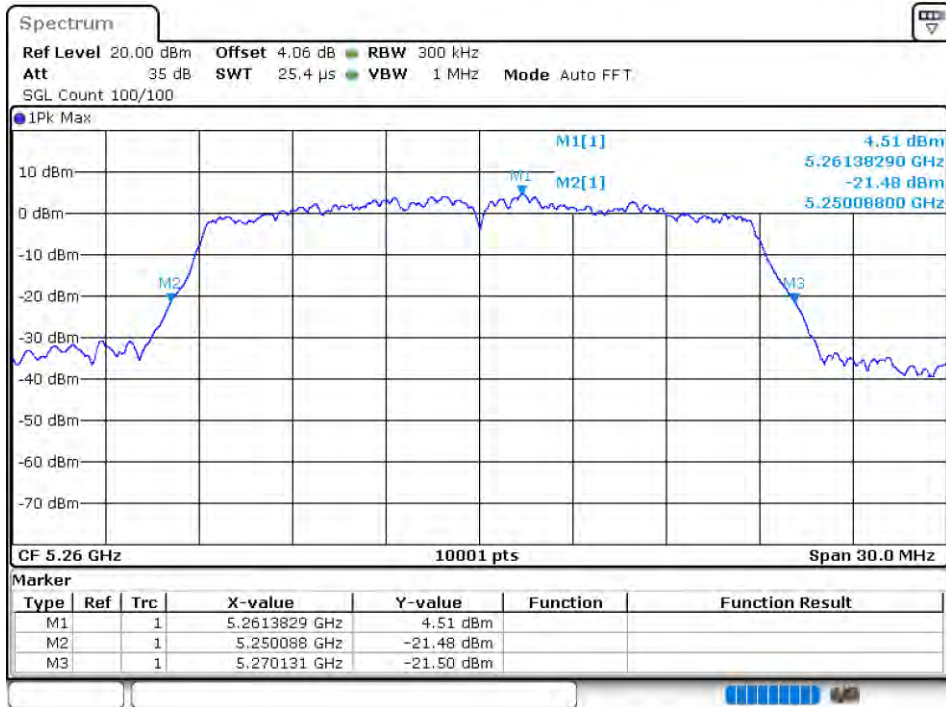
-26dB Bandwidth NVNT n40 5270MHz Ant1



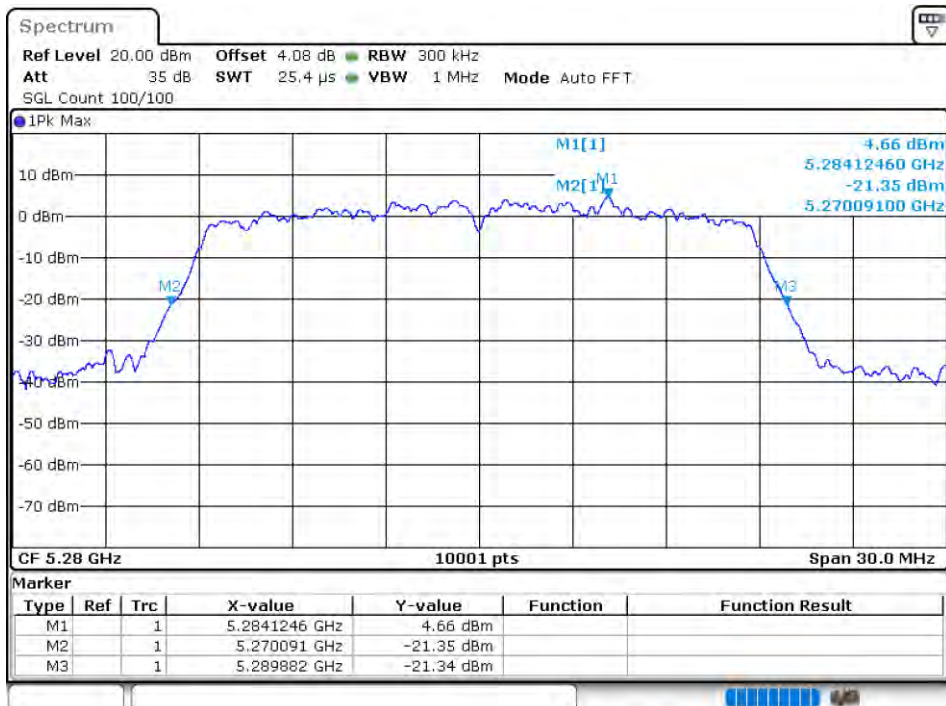
-26dB Bandwidth NVNT n40 5310MHz Ant1

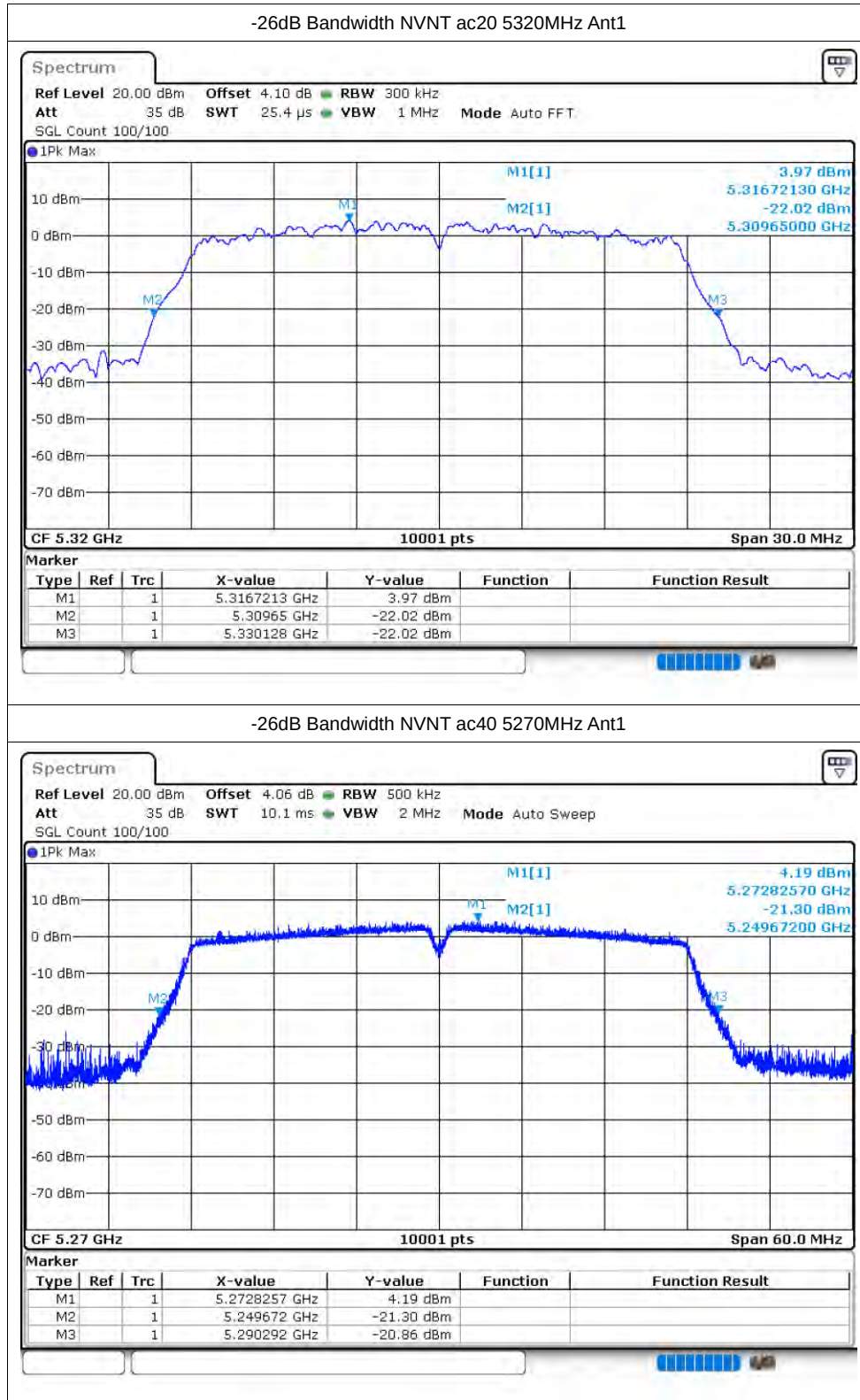


-26dB Bandwidth NVNT ac20 5260MHz Ant1

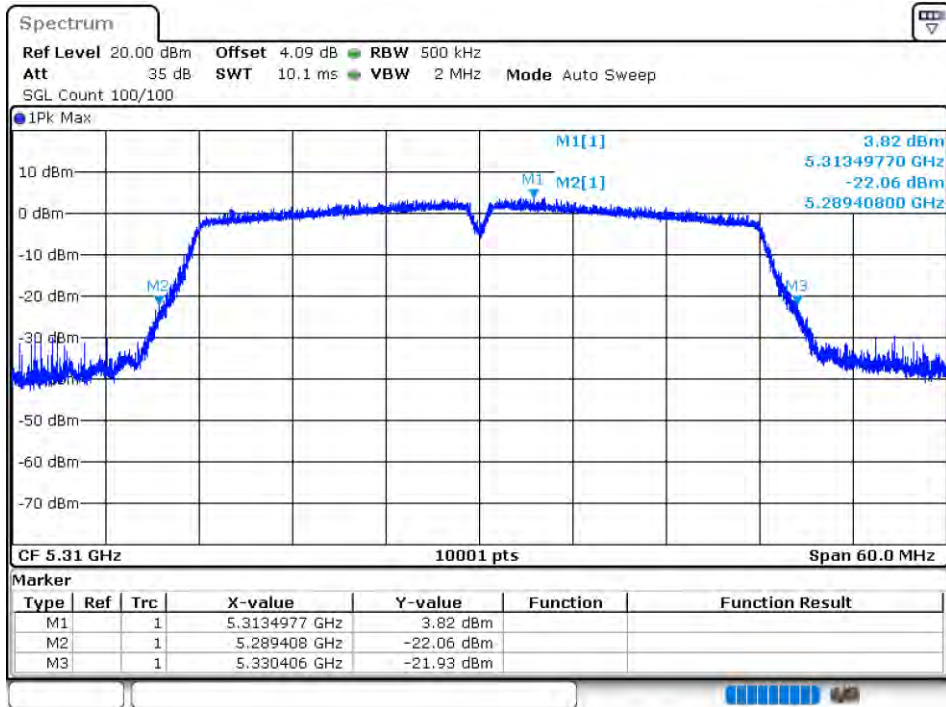


-26dB Bandwidth NVNT ac20 5280MHz Ant1

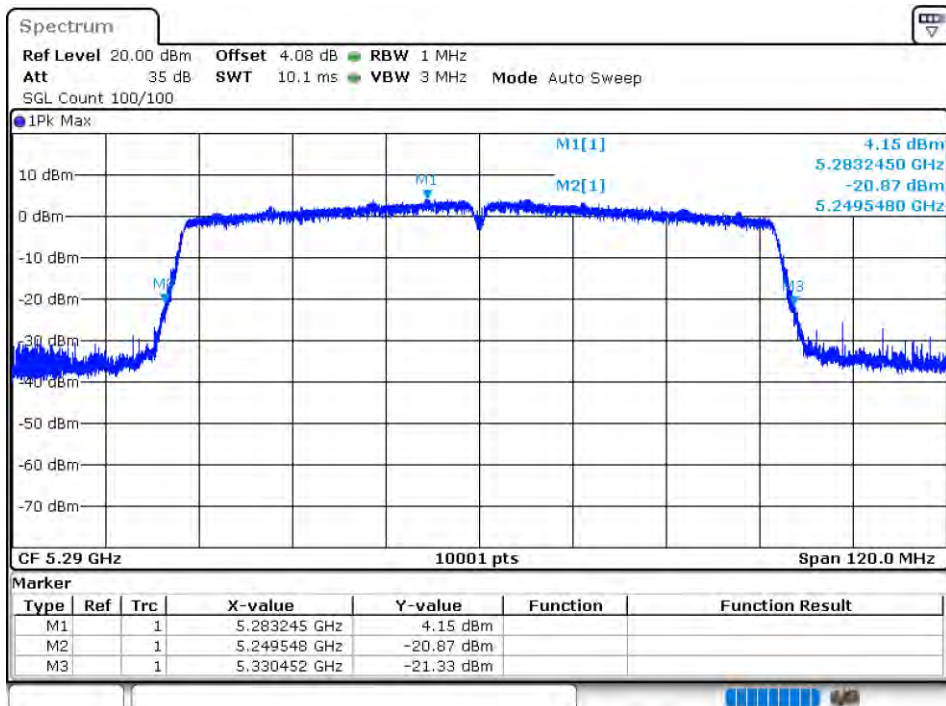




-26dB Bandwidth NVNT ac40 5310MHz Ant1



-26dB Bandwidth NVNT ac80 5290MHz Ant1

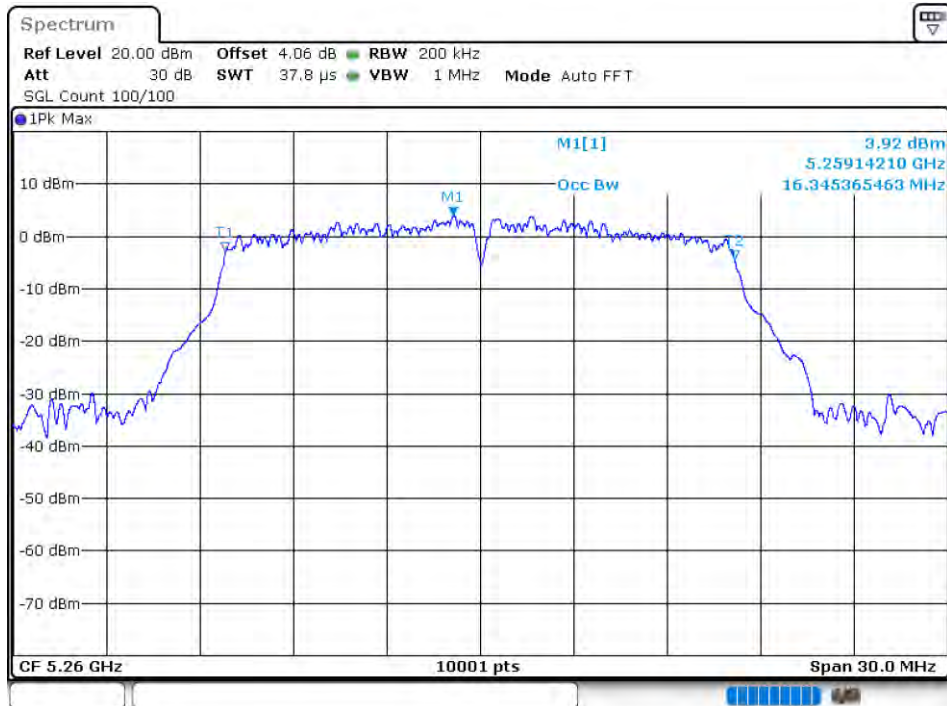


Occupied Channel Bandwidth

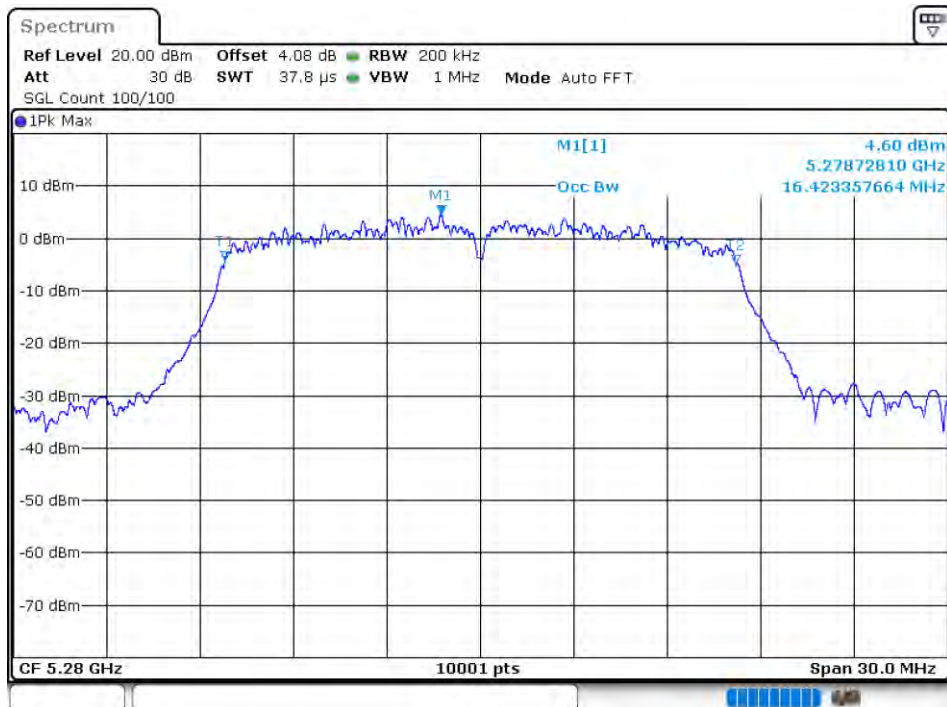
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.345
NVNT	a	5280	Ant1	16.423
NVNT	a	5320	Ant1	16.399
NVNT	n20	5260	Ant1	17.602
NVNT	n20	5280	Ant1	17.632
NVNT	n20	5320	Ant1	17.503
NVNT	n40	5270	Ant1	36.032
NVNT	n40	5310	Ant1	36.02
NVNT	ac20	5260	Ant1	17.515
NVNT	ac20	5280	Ant1	17.536
NVNT	ac20	5320	Ant1	17.518
NVNT	ac40	5270	Ant1	35.996
NVNT	ac40	5310	Ant1	36.02
NVNT	ac80	5290	Ant1	75.124

Test Graphs

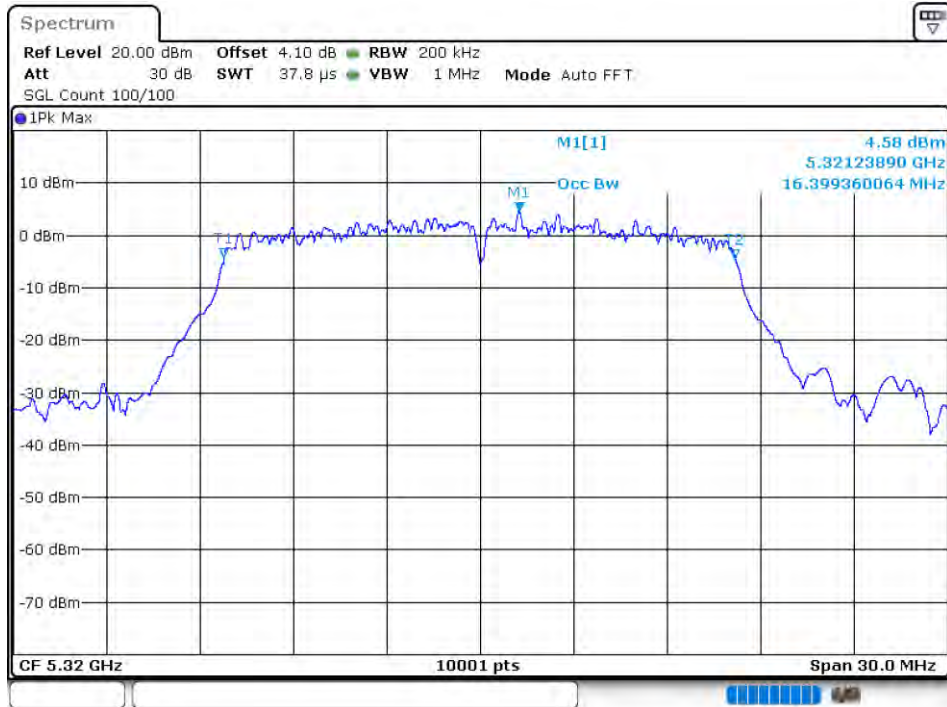
OBW NVNT a 5260MHz Ant1



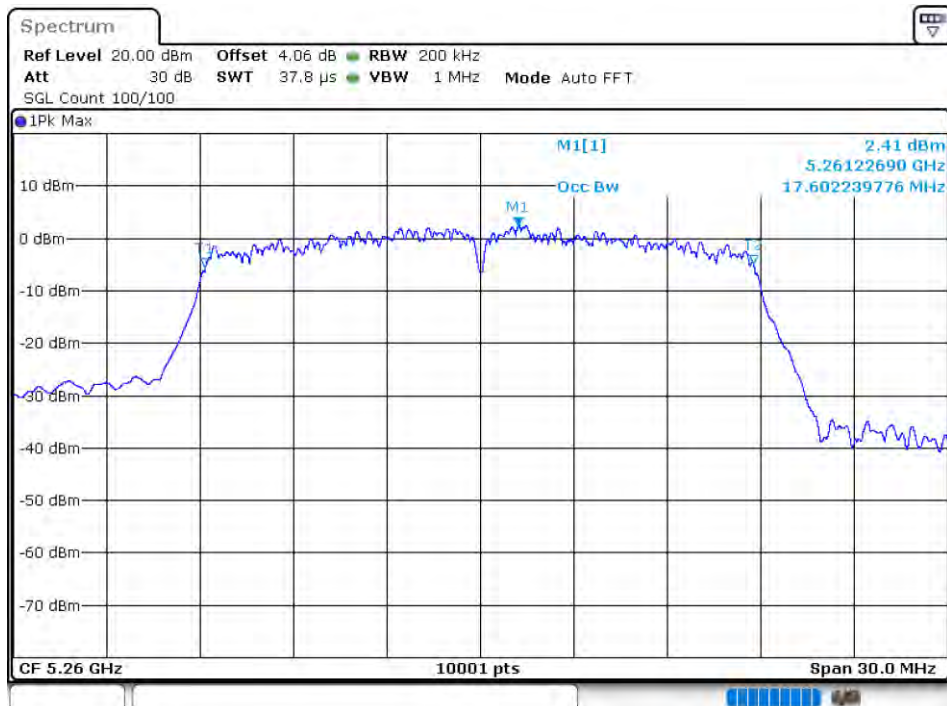
OBW NVNT a 5280MHz Ant1

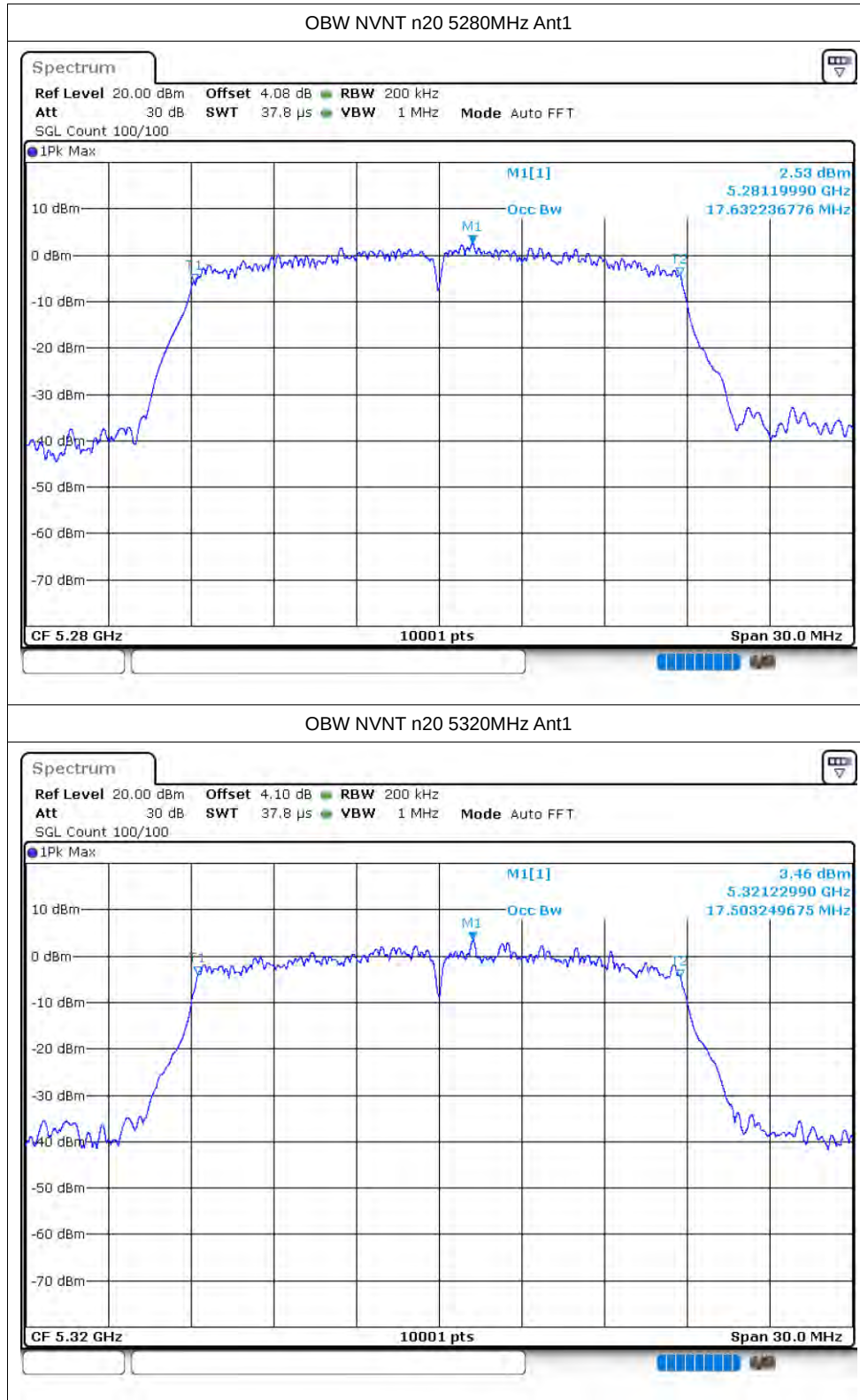


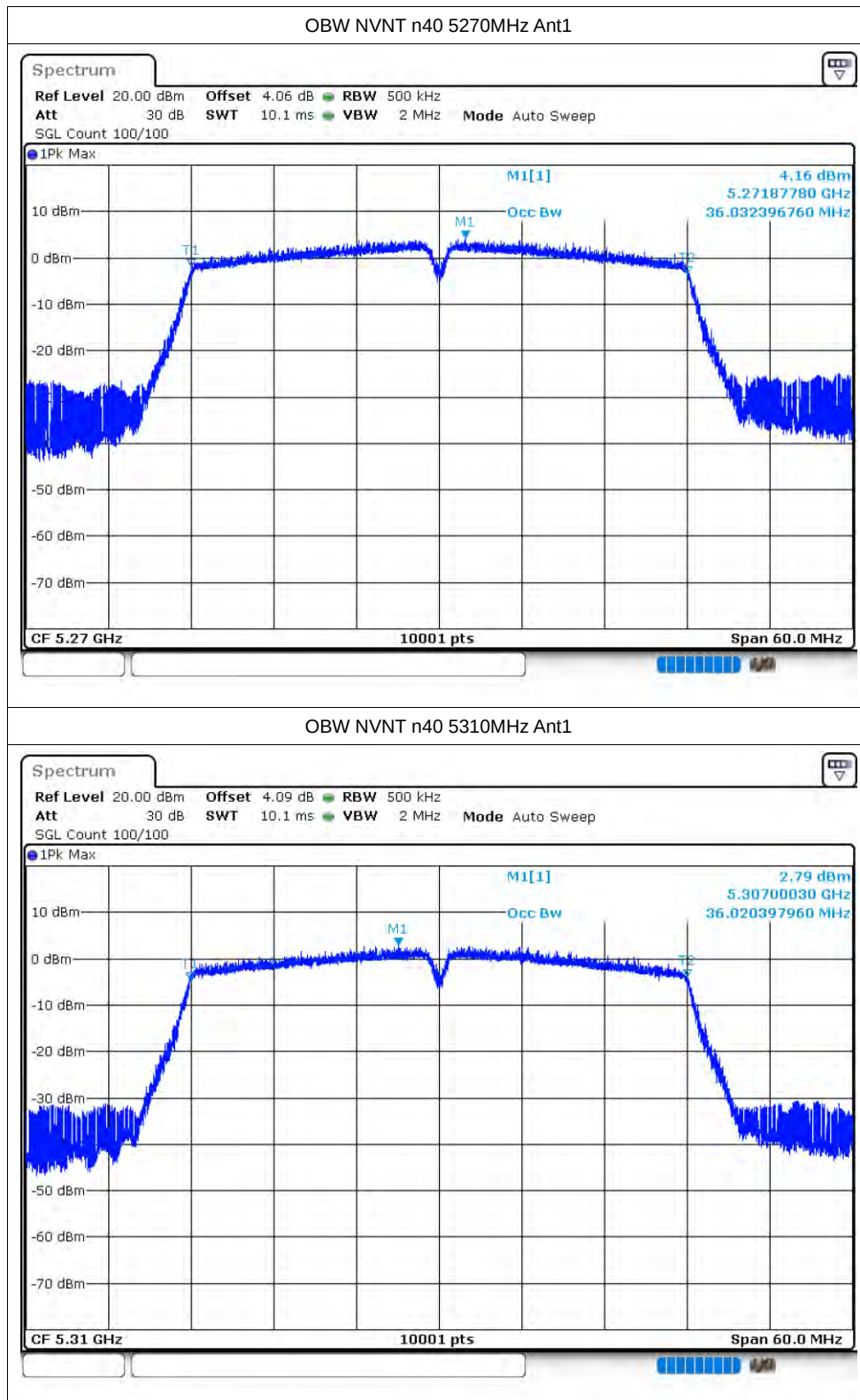
OBW NVNT a 5320MHz Ant1

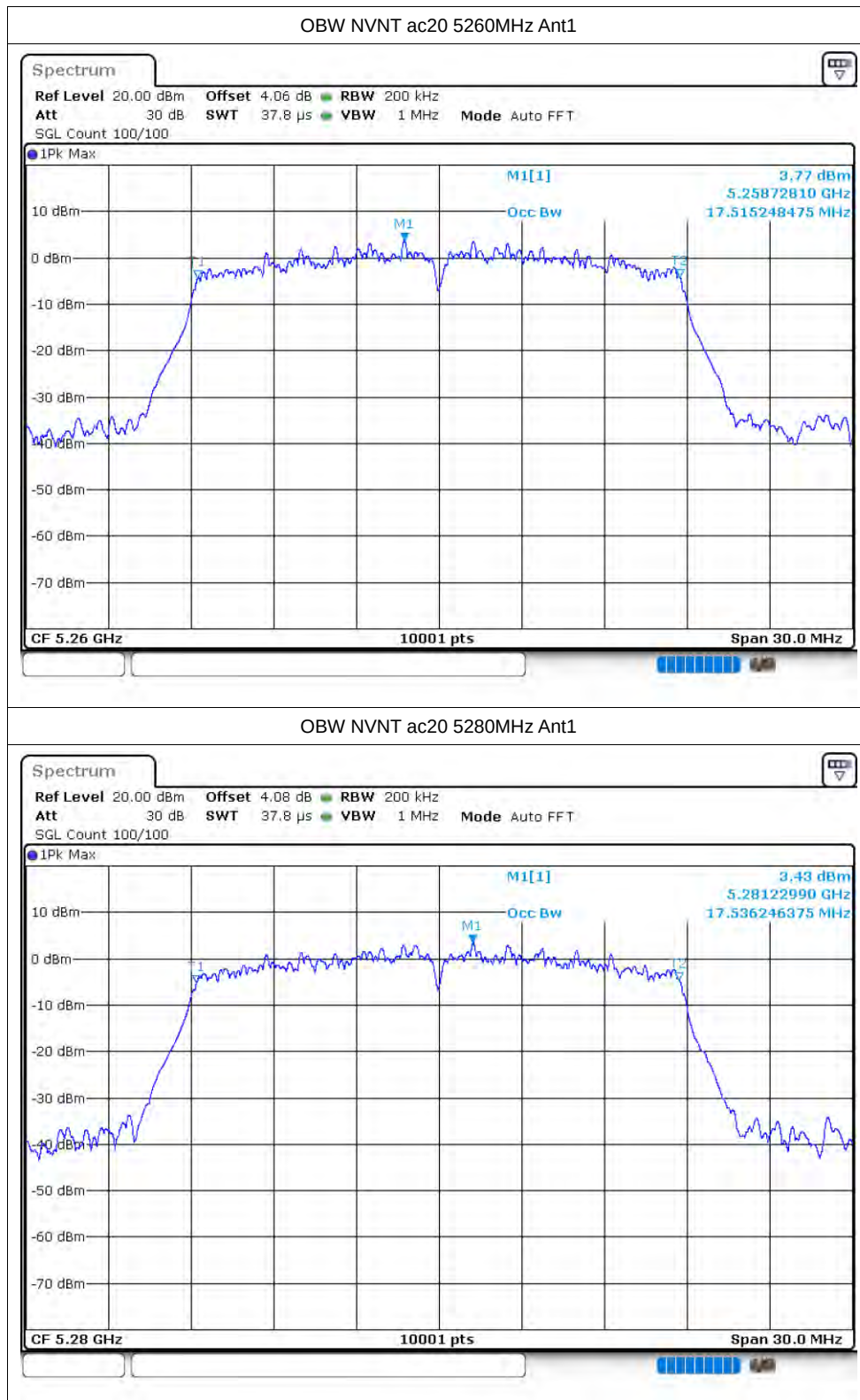


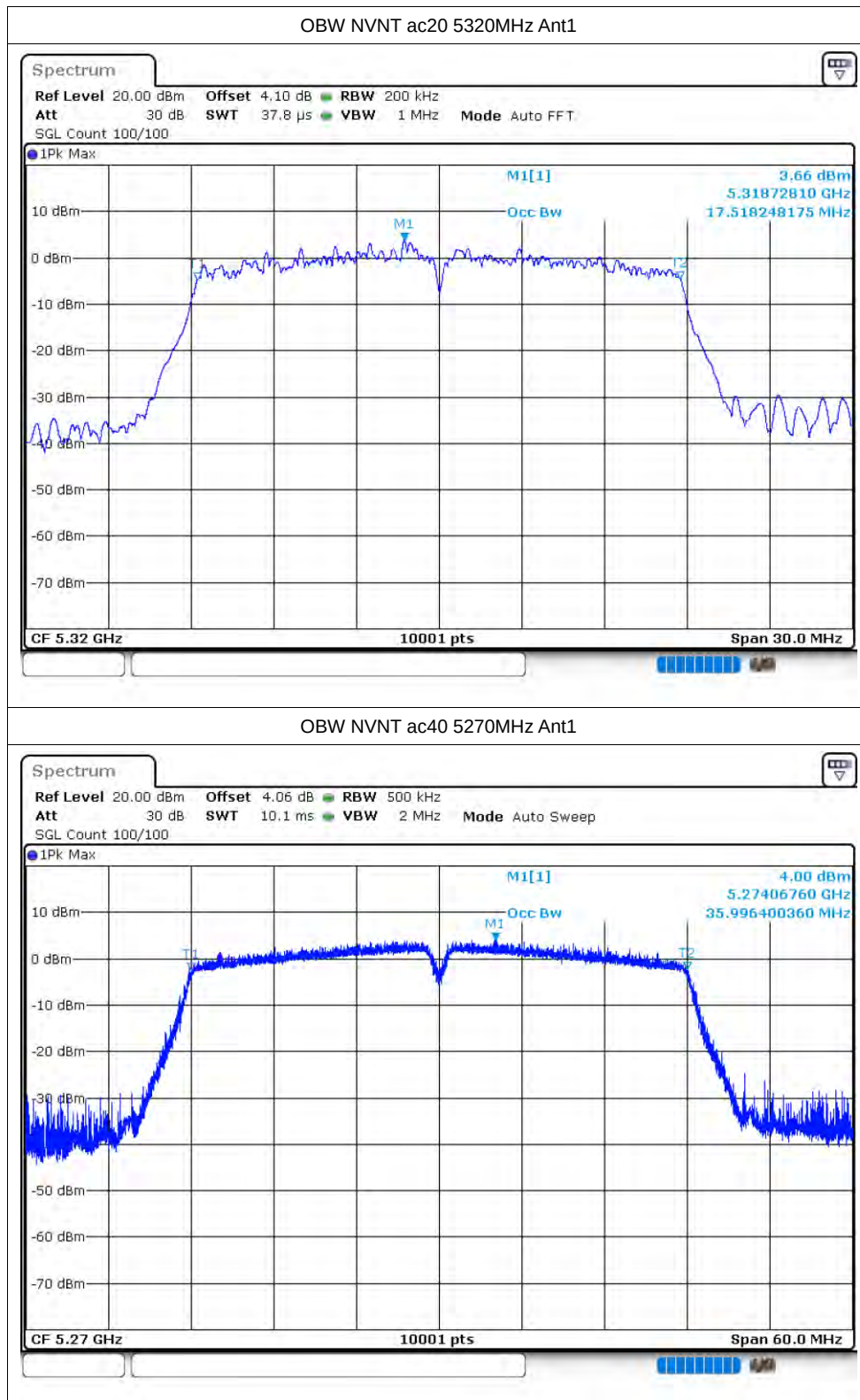
OBW NVNT n20 5260MHz Ant1

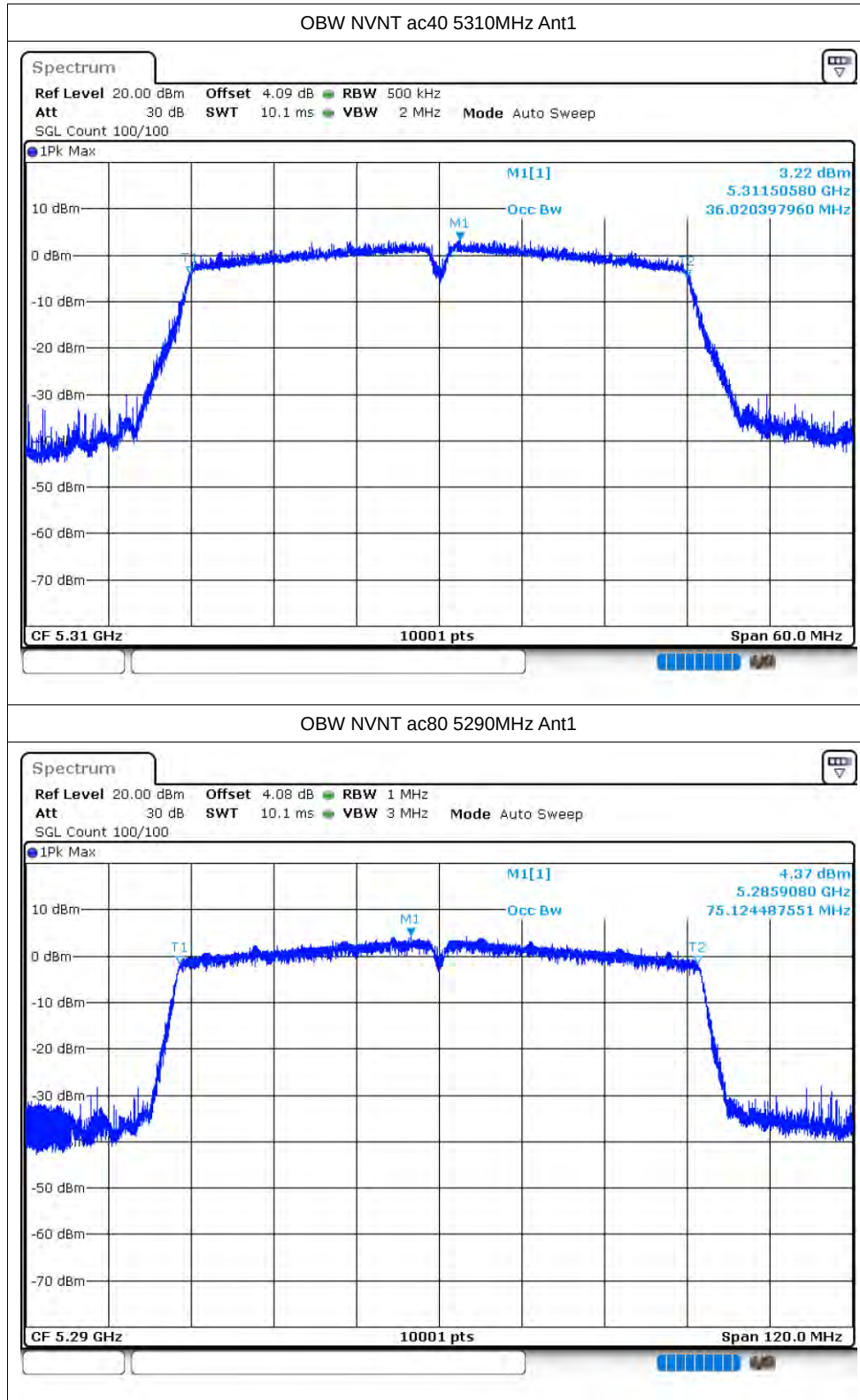










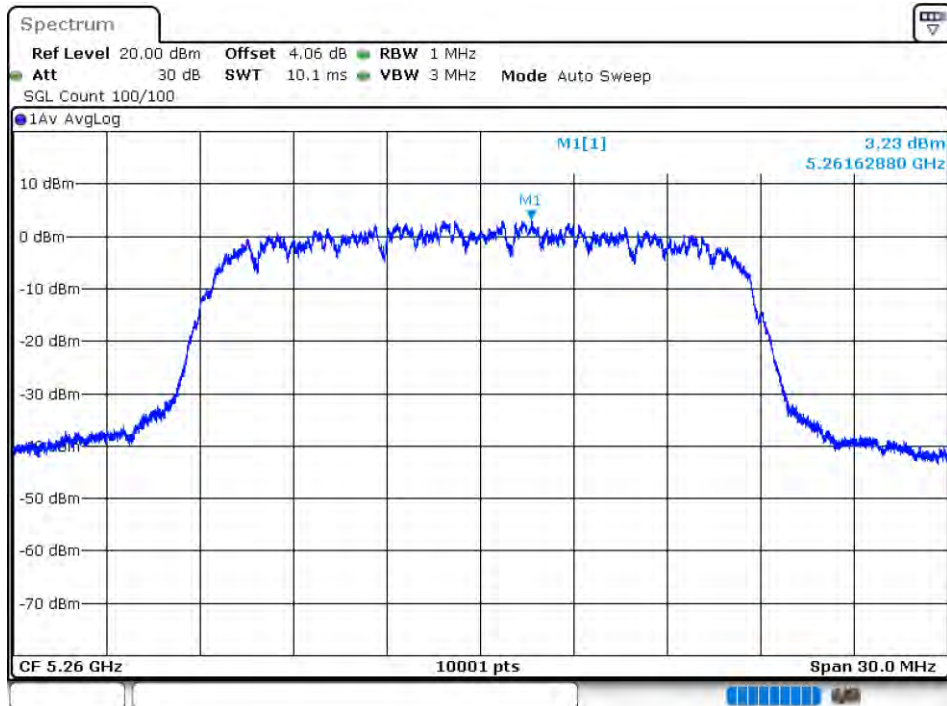


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	3.23	0.11	3.34	11	Pass
NVNT	a	5280	Ant1	2.7	0.11	2.81	11	Pass
NVNT	a	5320	Ant1	2.87	0.11	2.98	11	Pass
NVNT	n20	5260	Ant1	1.3	0.11	1.41	11	Pass
NVNT	n20	5280	Ant1	1.04	0.11	1.15	11	Pass
NVNT	n20	5320	Ant1	1.03	0.11	1.14	11	Pass
NVNT	n40	5270	Ant1	-2.06	0.22	-1.84	11	Pass
NVNT	n40	5310	Ant1	-3.94	0.22	-3.72	11	Pass
NVNT	ac20	5260	Ant1	0.78	0.11	0.89	11	Pass
NVNT	ac20	5280	Ant1	1.1	0.11	1.21	11	Pass
NVNT	ac20	5320	Ant1	1.6	0.11	1.71	11	Pass
NVNT	ac40	5270	Ant1	-3.19	0.22	-2.97	11	Pass
NVNT	ac40	5310	Ant1	-3.66	0.22	-3.44	11	Pass
NVNT	ac80	5290	Ant1	-7.74	0.43	-7.31	11	Pass

Test Graphs

PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1

