

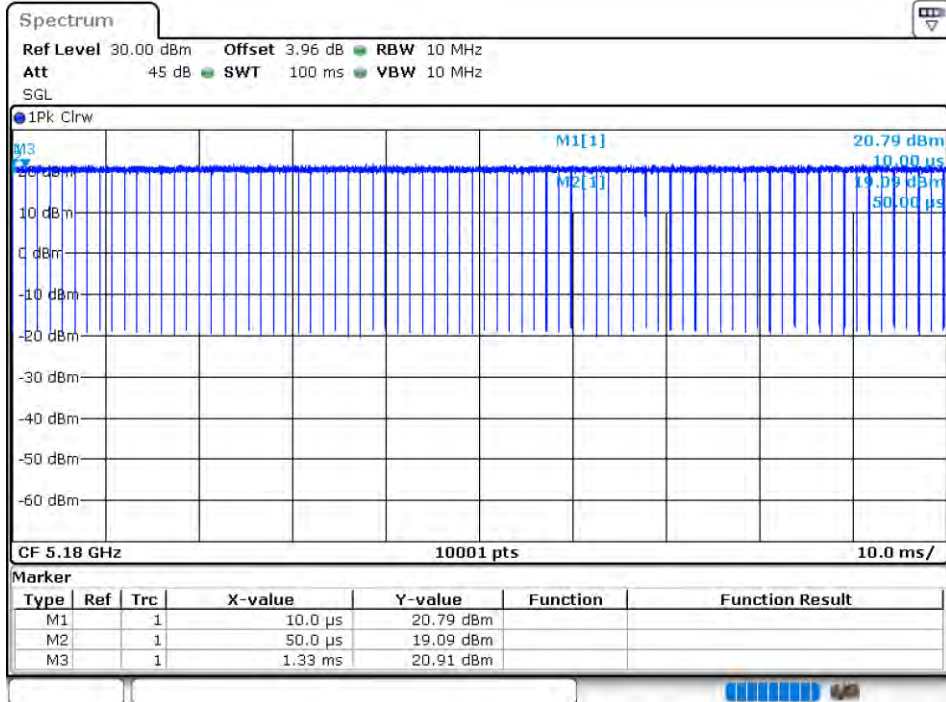
5.2G WIFI

Duty Cycle

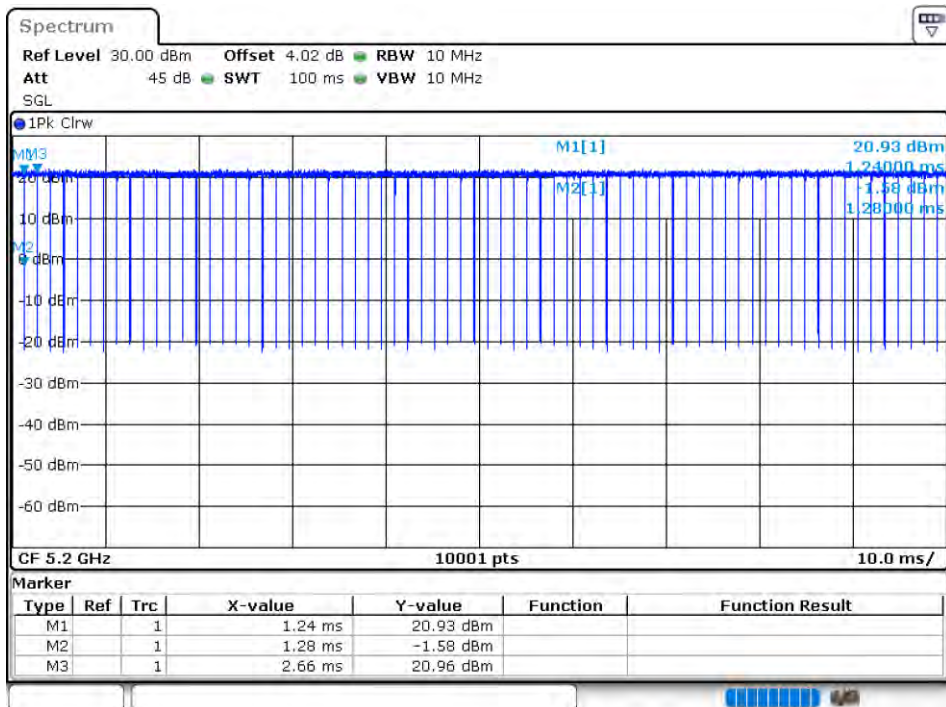
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.66	0.1	0.78
NVNT	a	5200	Ant1	97.84	0.09	0.72
NVNT	a	5240	Ant1	97.83	0.1	0.73
NVNT	n20	5180	Ant1	97.71	0.1	0.78
NVNT	n20	5200	Ant1	97.67	0.1	0.78
NVNT	n20	5240	Ant1	97.72	0.1	0.78
NVNT	n40	5190	Ant1	95.36	0.21	1.56
NVNT	n40	5230	Ant1	95.37	0.21	1.56

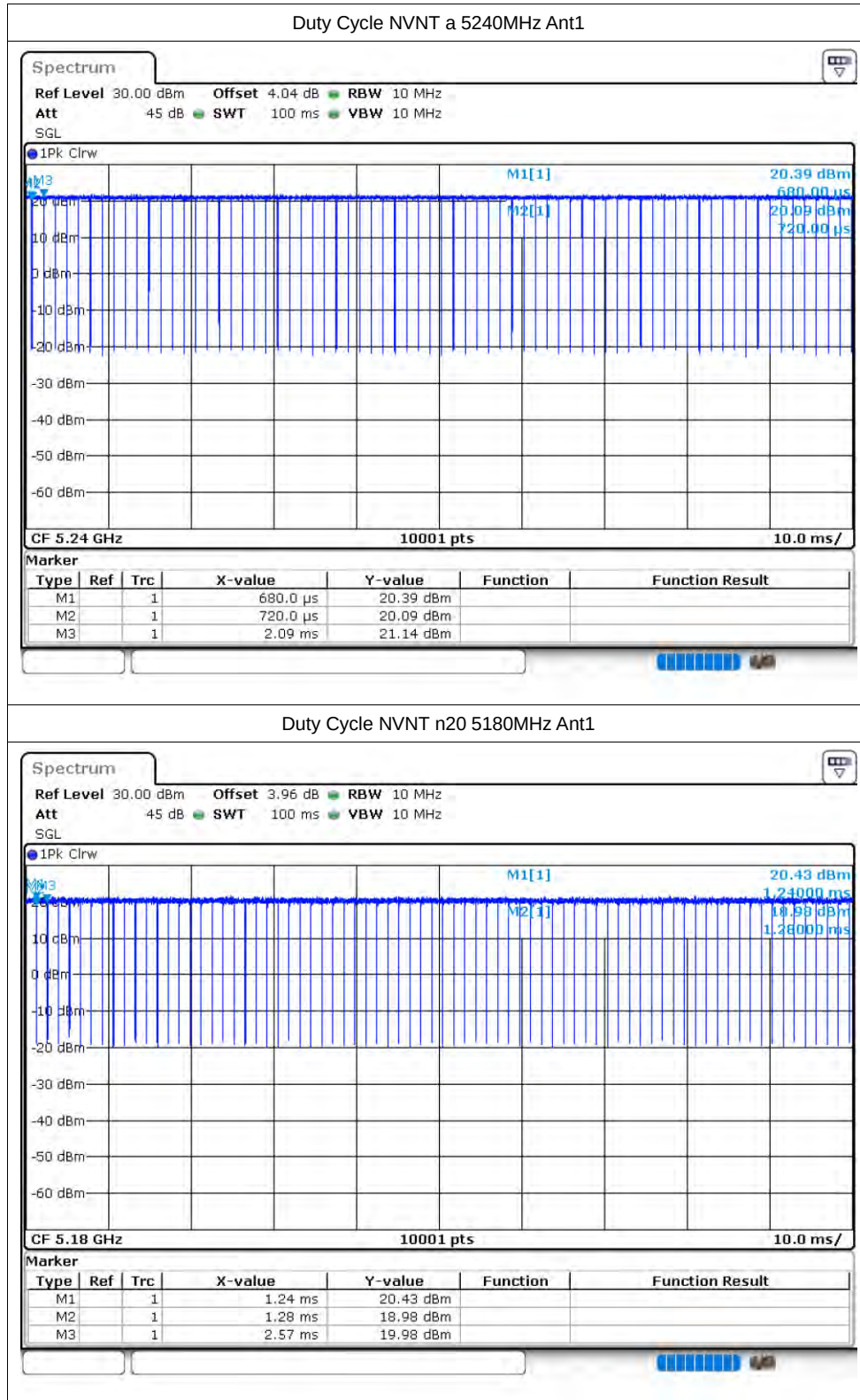
Test Graphs

Duty Cycle NVNT a 5180MHz Ant1

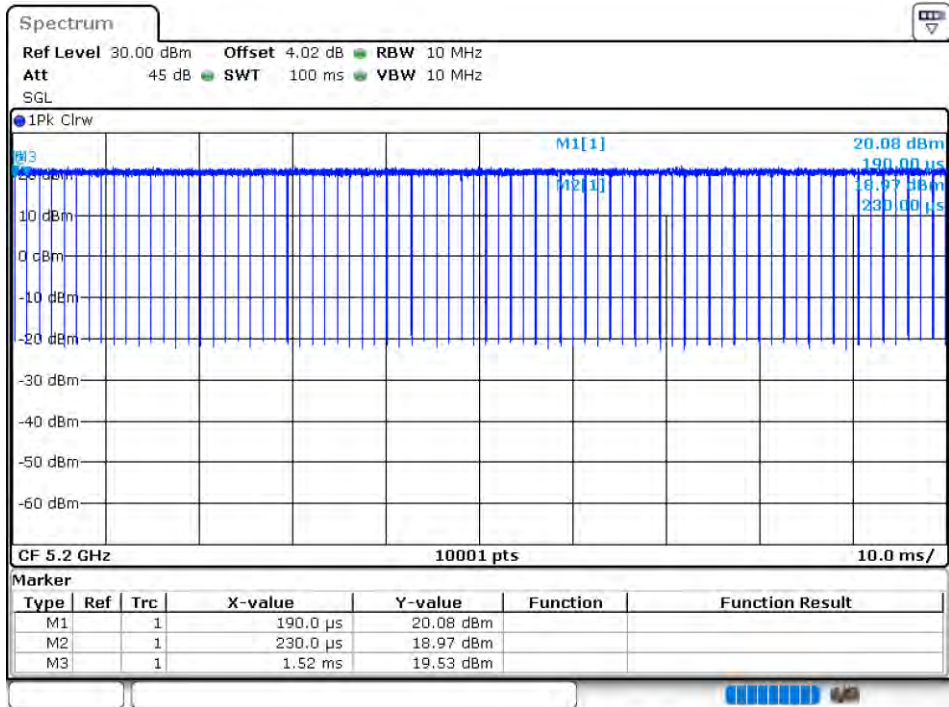


Duty Cycle NVNT a 5200MHz Ant1

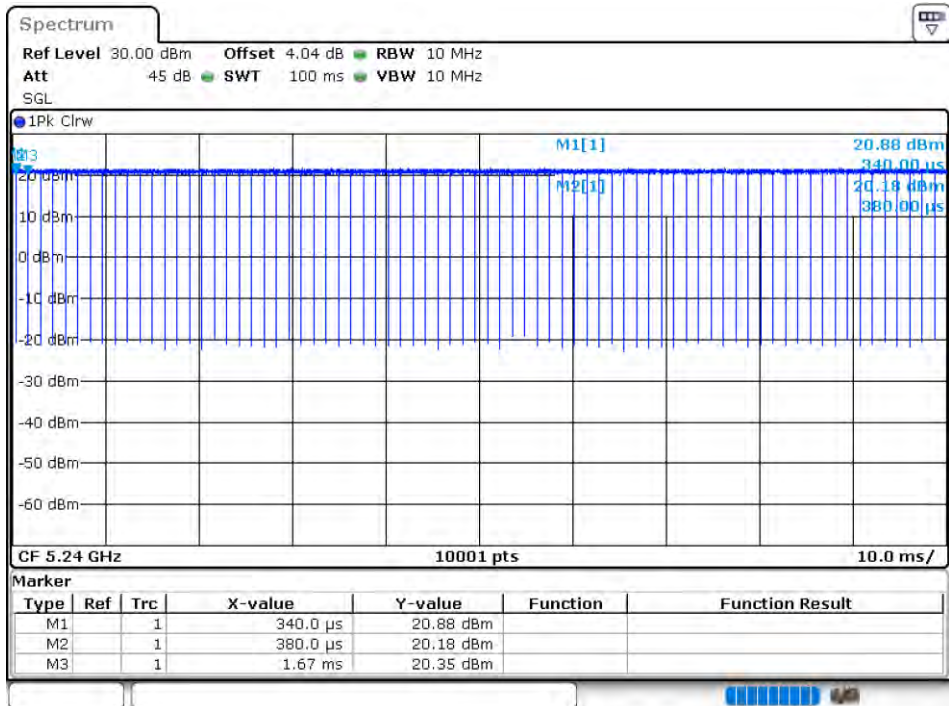


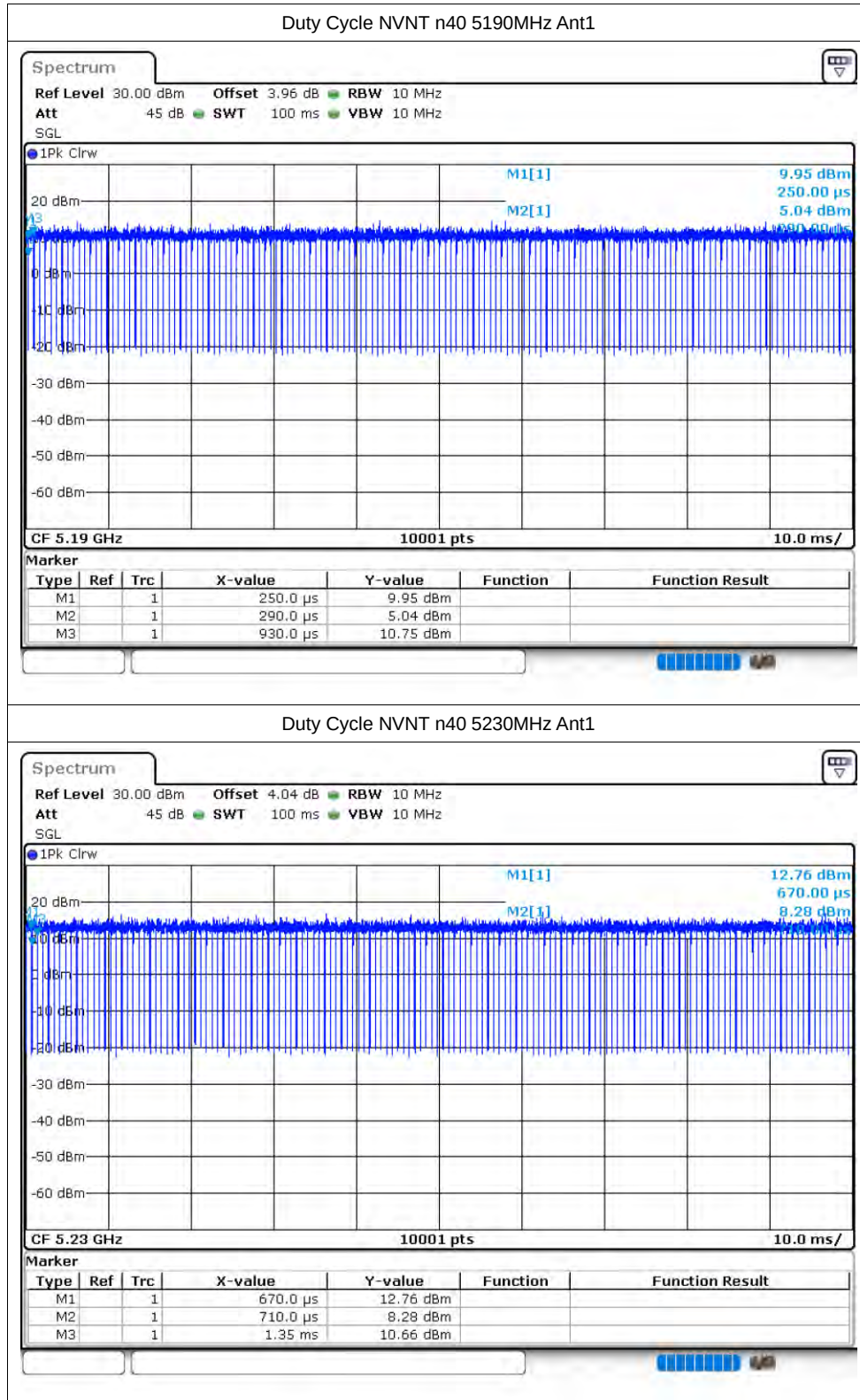


Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.6	24	Pass
NVNT	a	5200	Ant1	12.37	24	Pass
NVNT	a	5240	Ant1	13.59	24	Pass
NVNT	n20	5180	Ant1	12.72	24	Pass
NVNT	n20	5200	Ant1	12.28	24	Pass
NVNT	n20	5240	Ant1	13.82	24	Pass
NVNT	n40	5190	Ant1	10.84	24	Pass
NVNT	n40	5230	Ant1	11.79	24	Pass

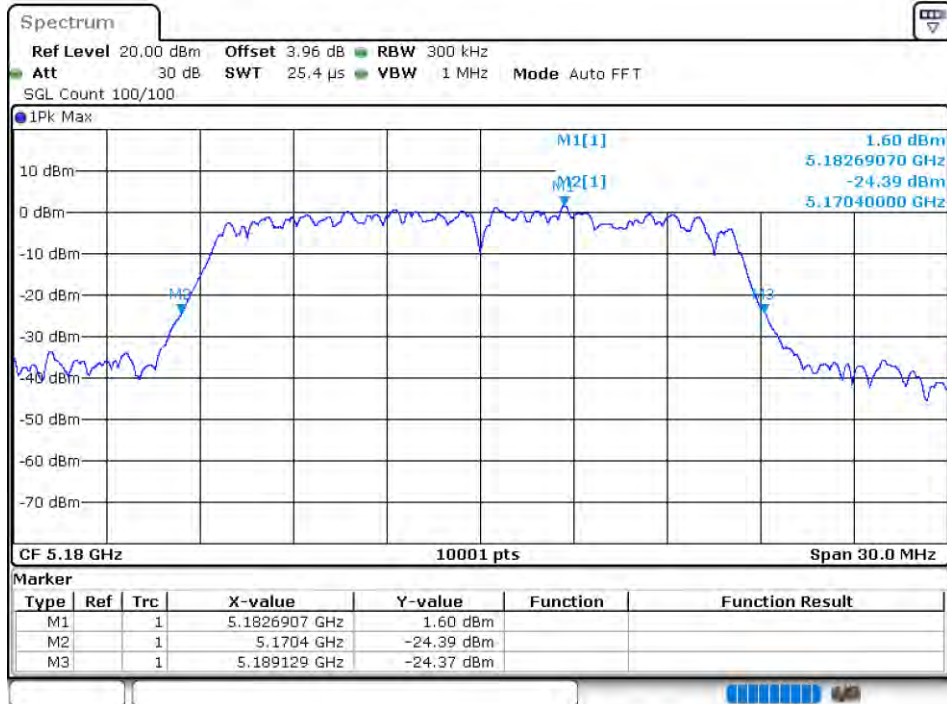
Note: The average power contains duty factor

-26dB Bandwidth

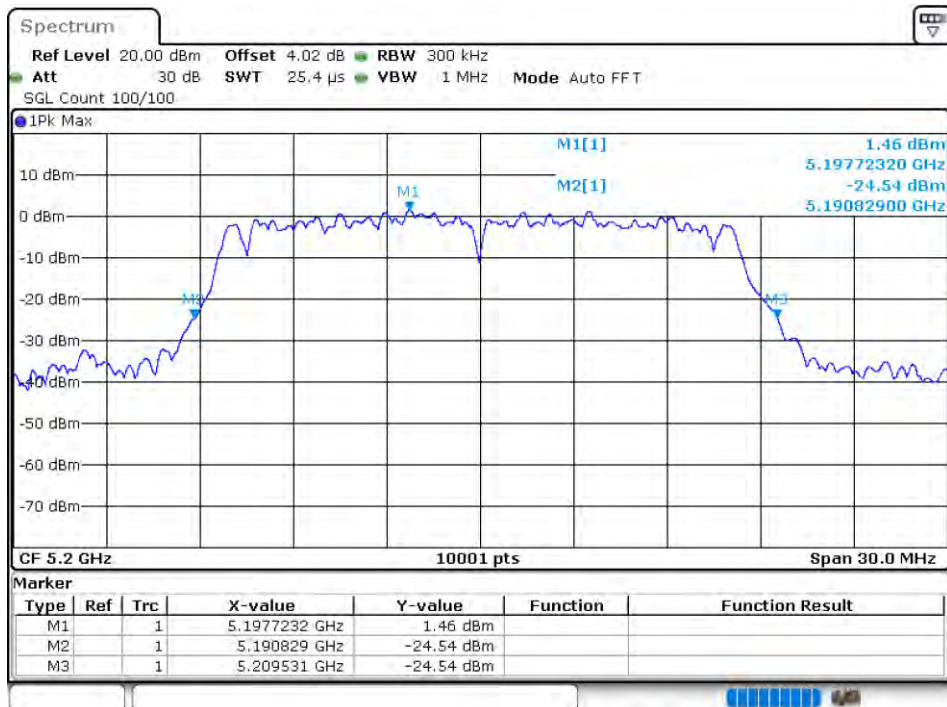
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	18.729	Pass
NVNT	a	5200	Ant1	18.702	Pass
NVNT	a	5240	Ant1	18.672	Pass
NVNT	n20	5180	Ant1	19.284	Pass
NVNT	n20	5200	Ant1	19.002	Pass
NVNT	n20	5240	Ant1	19.2	Pass
NVNT	n40	5190	Ant1	39.774	Pass
NVNT	n40	5230	Ant1	39.48	Pass

Test Graphs

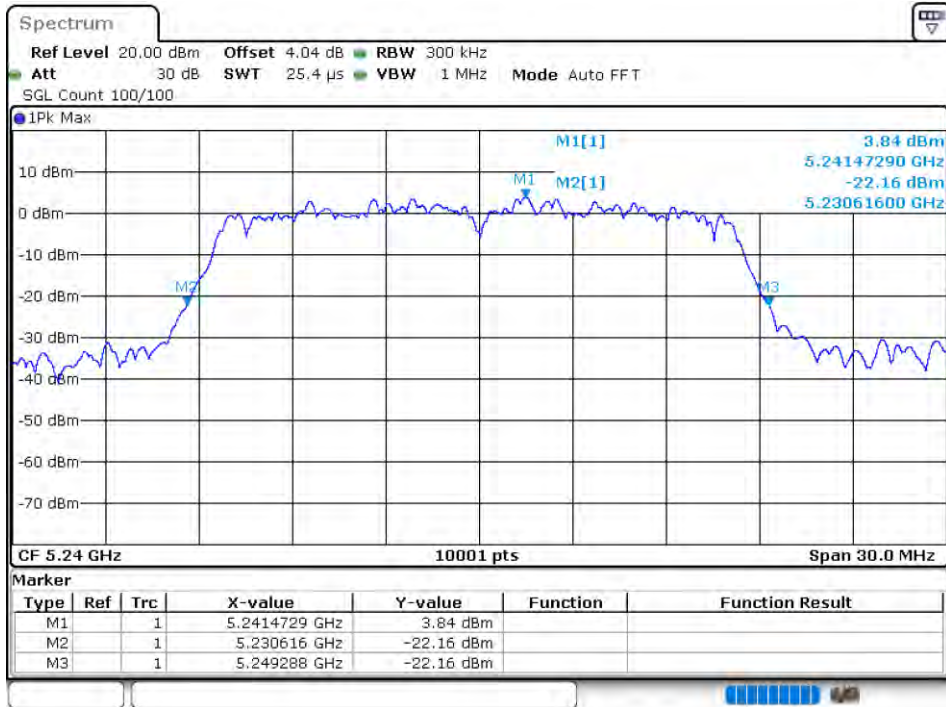
-26dB Bandwidth NVNT a 5180MHz Ant1



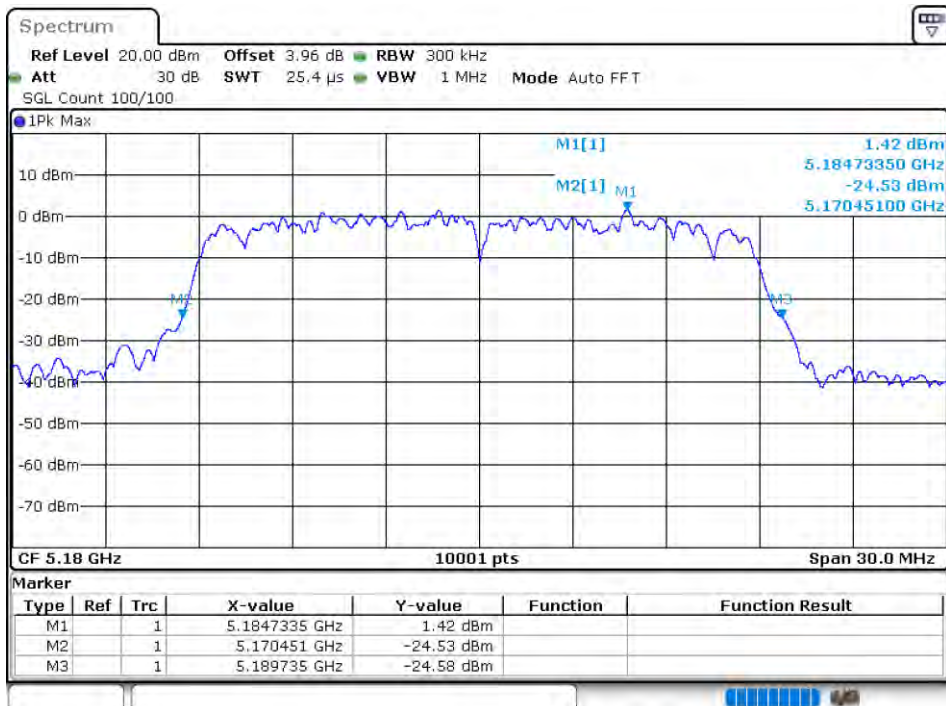
-26dB Bandwidth NVNT a 5200MHz Ant1



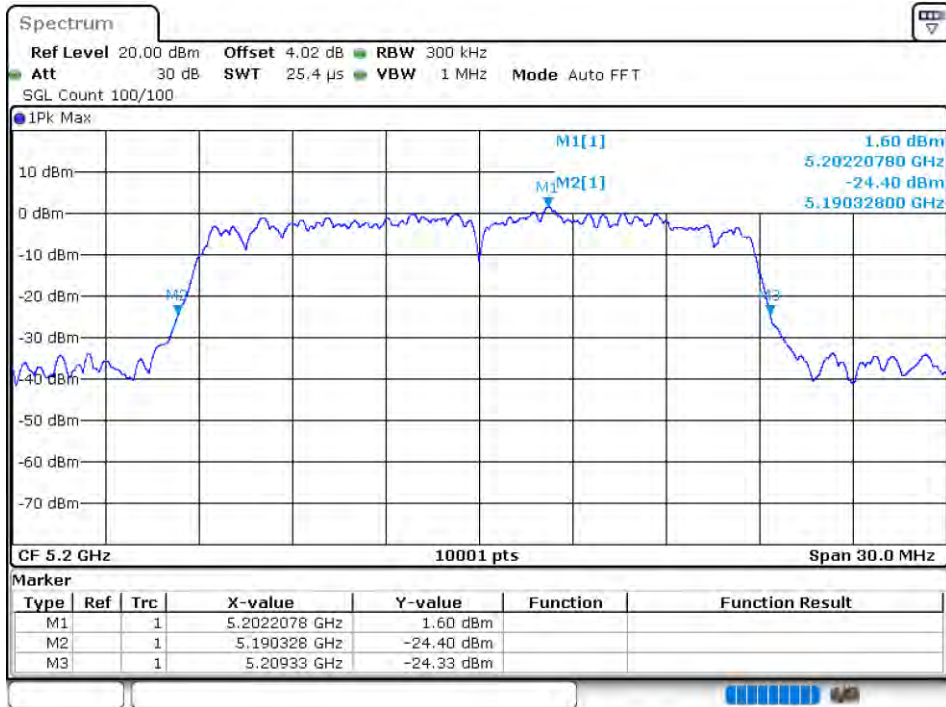
-26dB Bandwidth NVNT a 5240MHz Ant1



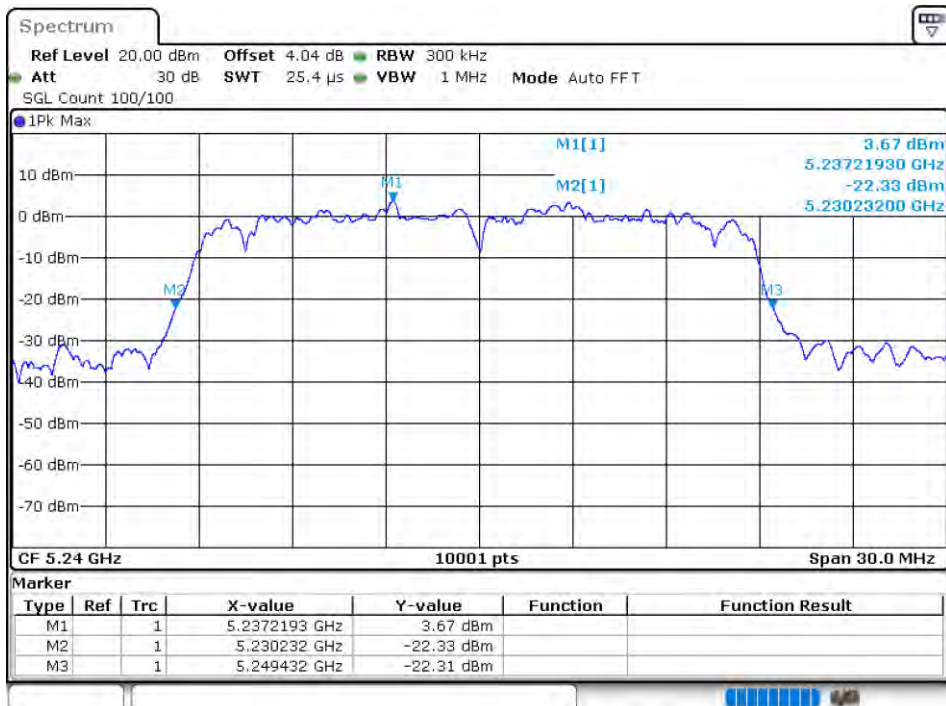
-26dB Bandwidth NVNT n20 5180MHz Ant1



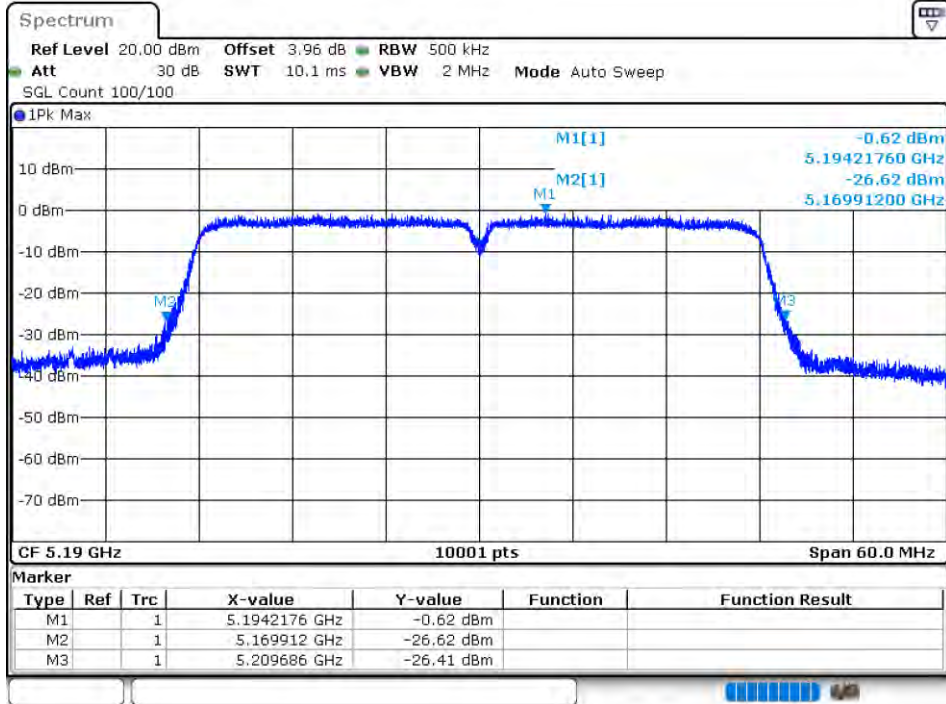
-26dB Bandwidth NVNT n20 5200MHz Ant1



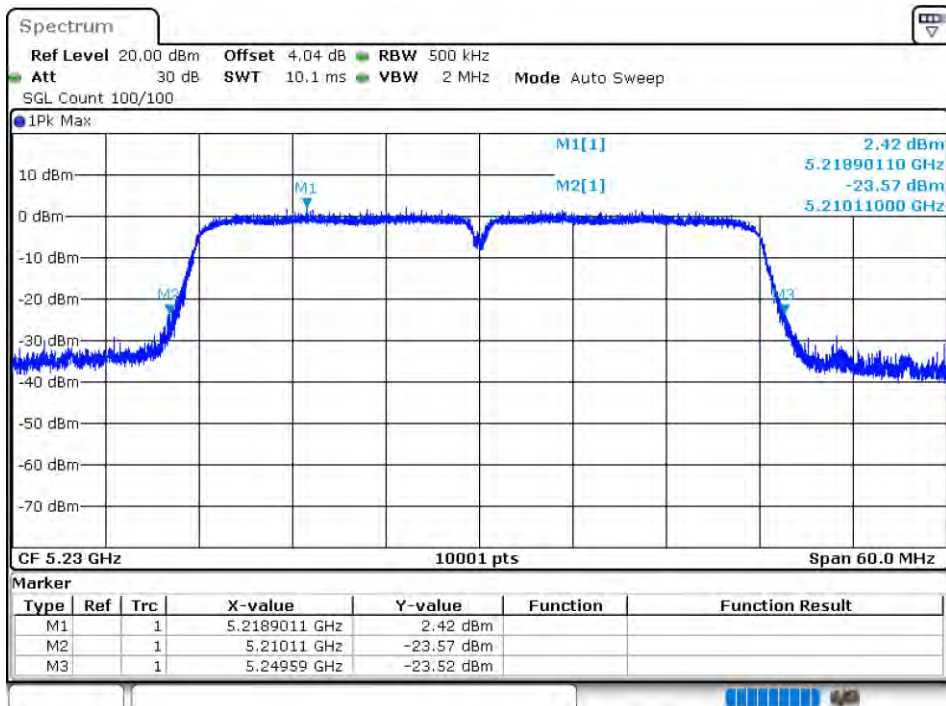
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5180	Ant1	16.489
NVNT	a	5200	Ant1	16.465
NVNT	a	5240	Ant1	16.612
NVNT	n20	5180	Ant1	17.377
NVNT	n20	5200	Ant1	17.431
NVNT	n20	5240	Ant1	17.374
NVNT	n40	5190	Ant1	35.906
NVNT	n40	5230	Ant1	35.864

Test Graphs

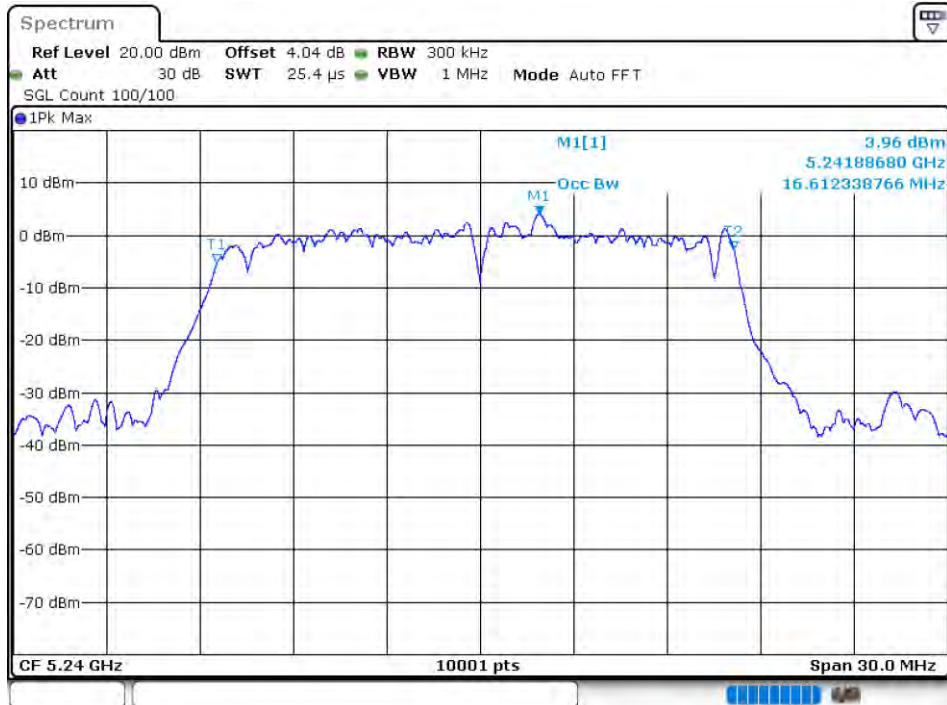
OBW NVNT a 5180MHz Ant1



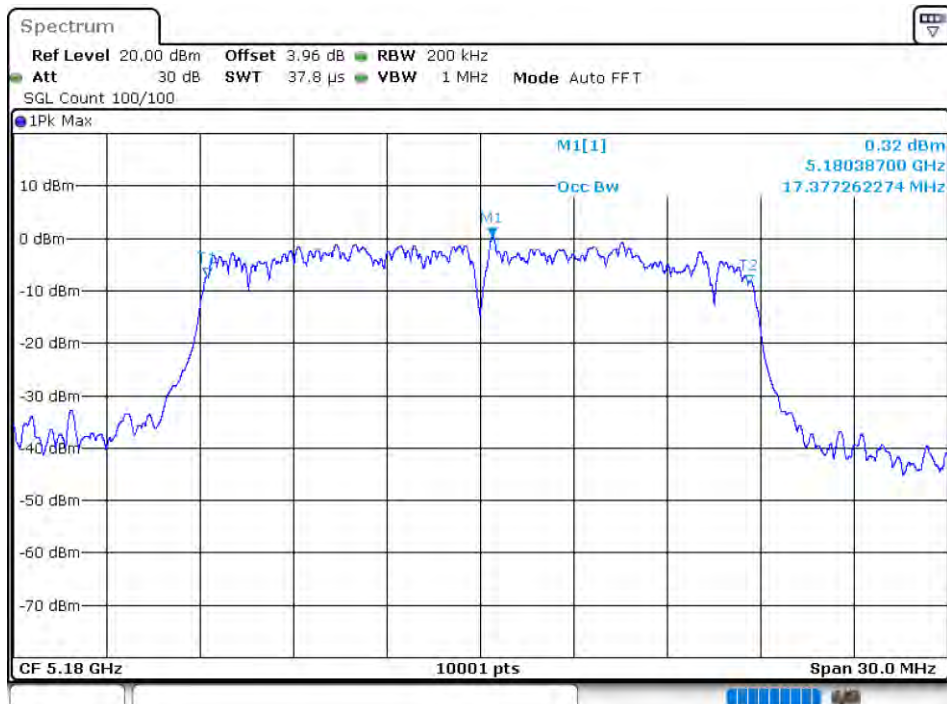
OBW NVNT a 5200MHz Ant1

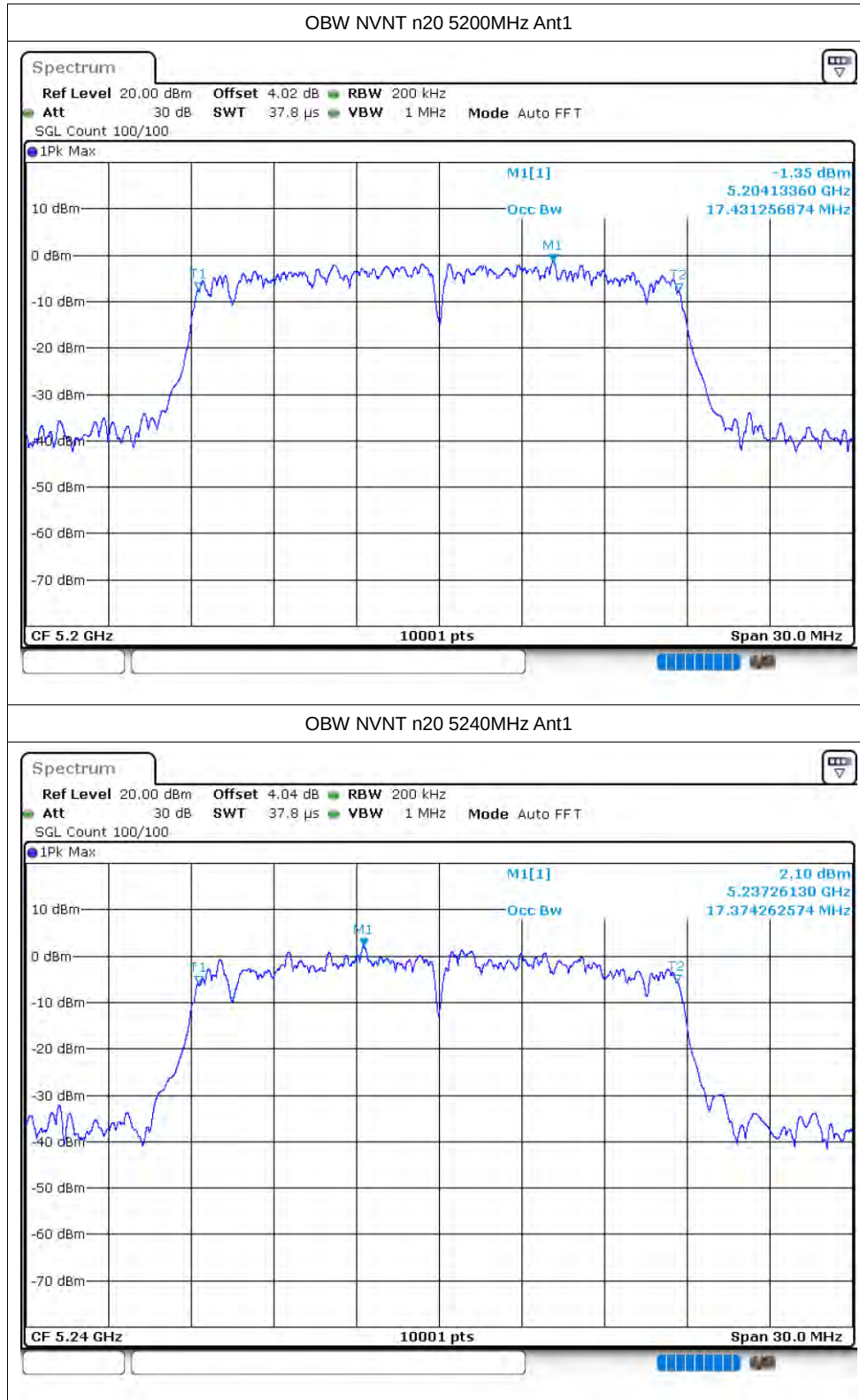


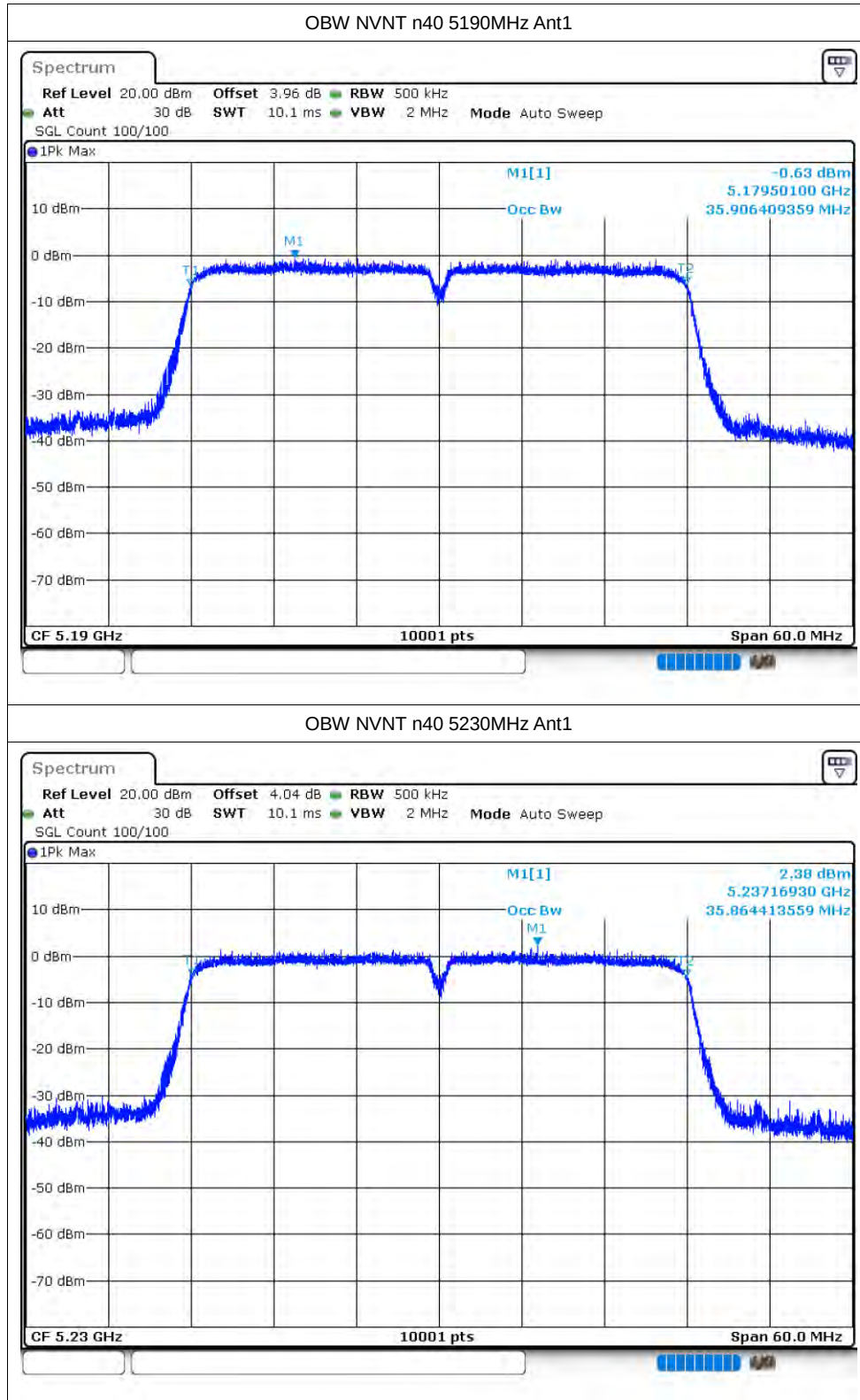
OBW NVNT a 5240MHz Ant1



OBW NVNT n20 5180MHz Ant1





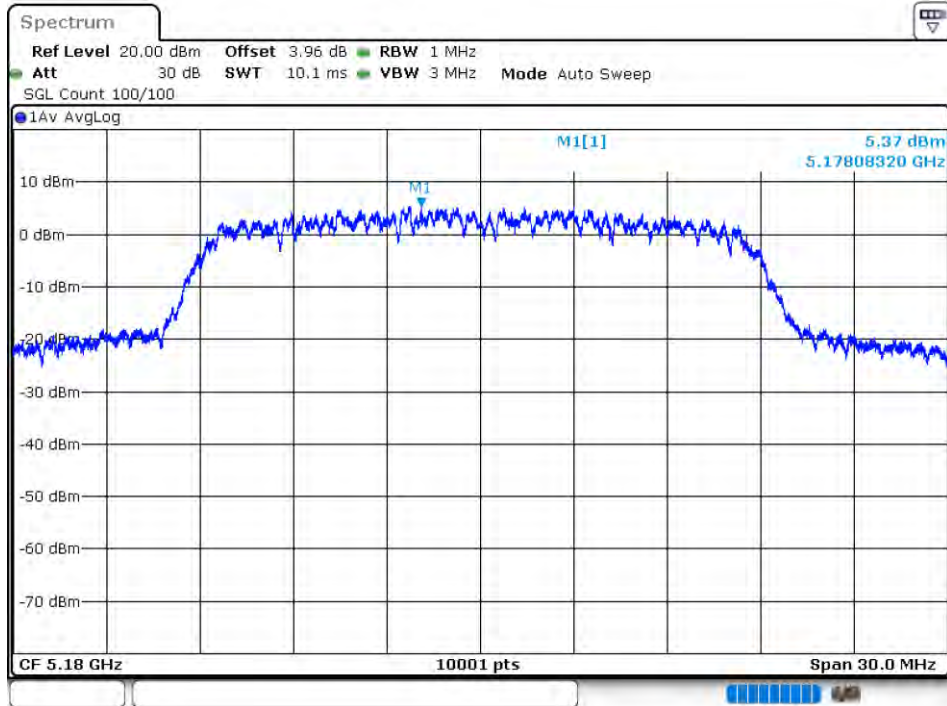


Maximum Power Spectral Density Level

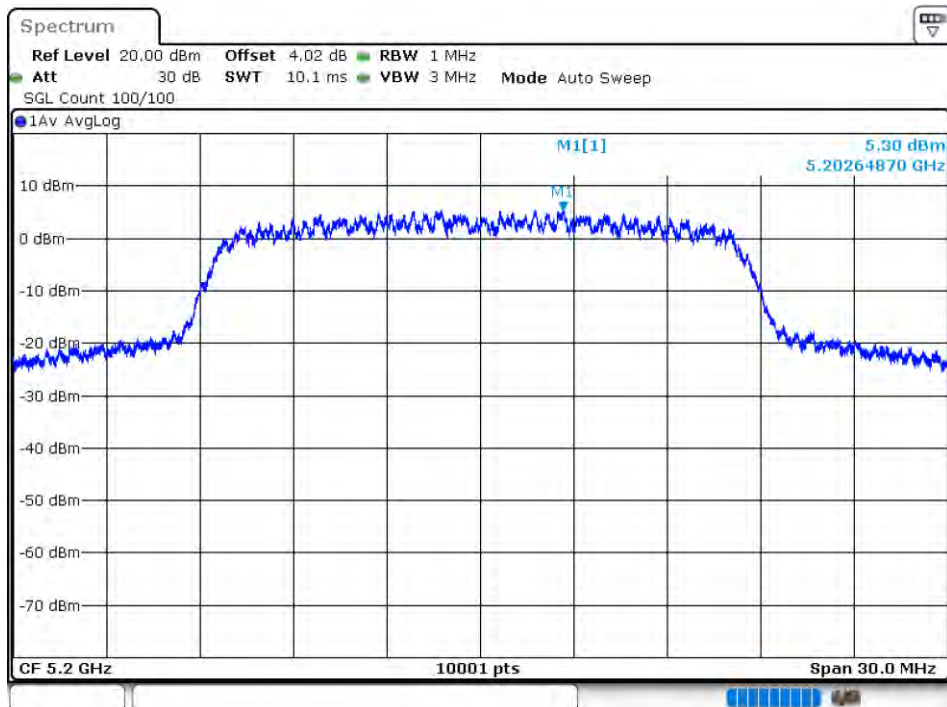
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.37	0.1	5.47	11	Pass
NVNT	a	5200	Ant1	5.3	0.09	5.39	11	Pass
NVNT	a	5240	Ant1	6.72	0.1	6.82	11	Pass
NVNT	n20	5180	Ant1	5.45	0.1	5.55	11	Pass
NVNT	n20	5200	Ant1	5.61	0.1	5.71	11	Pass
NVNT	n20	5240	Ant1	6.36	0.1	6.46	11	Pass
NVNT	n40	5190	Ant1	-7.62	0.21	-7.41	11	Pass
NVNT	n40	5230	Ant1	-5.41	0.21	-5.2	11	Pass

Test Graphs

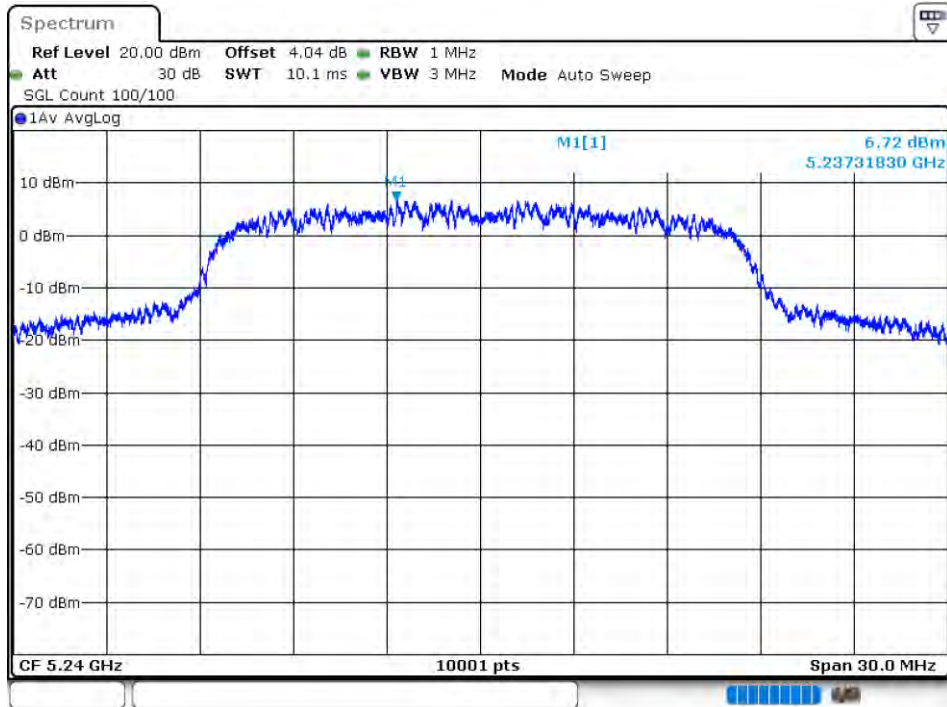
PSD NVNT a 5180MHz Ant1



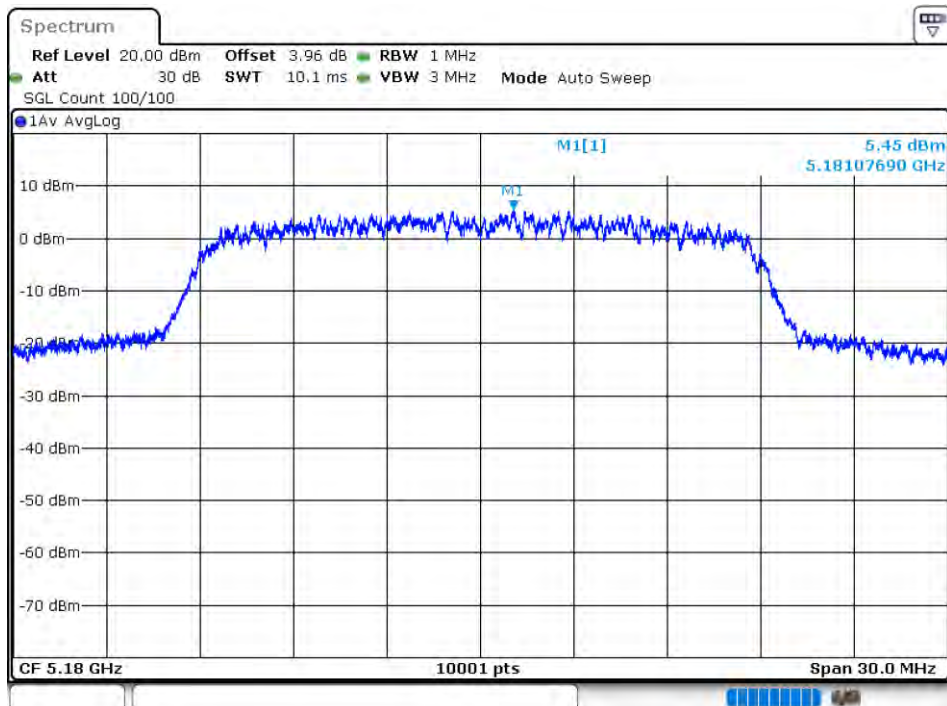
PSD NVNT a 5200MHz Ant1

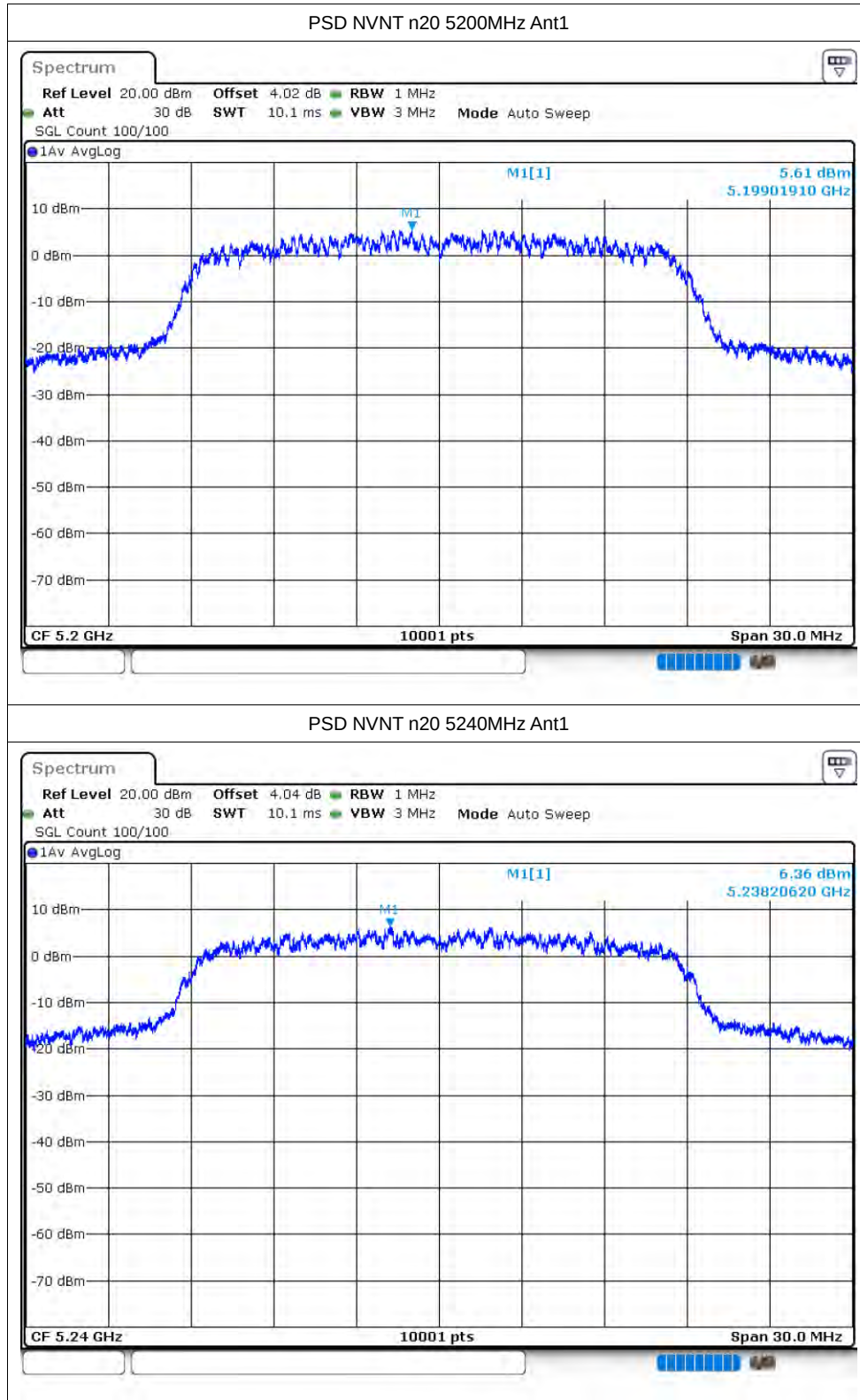


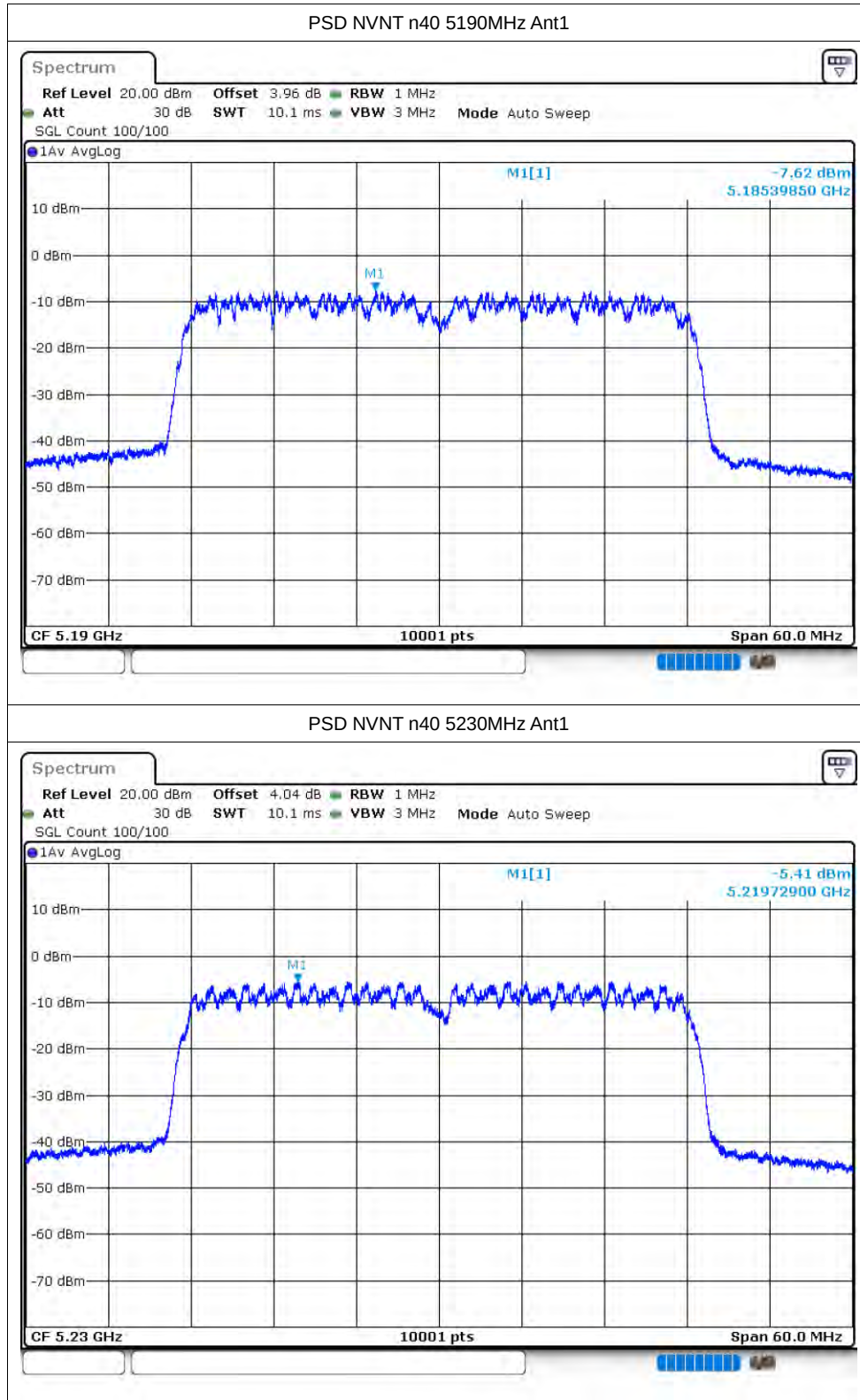
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1







Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-37.71	-27	Pass
NVNT	a	5240	Ant1	-36.79	-27	Pass
NVNT	n20	5180	Ant1	-36.71	-27	Pass
NVNT	n20	5240	Ant1	-38.97	-27	Pass
NVNT	n40	5190	Ant1	-32.74	-27	Pass
NVNT	n40	5230	Ant1	-39.86	-27	Pass

Test Graphs

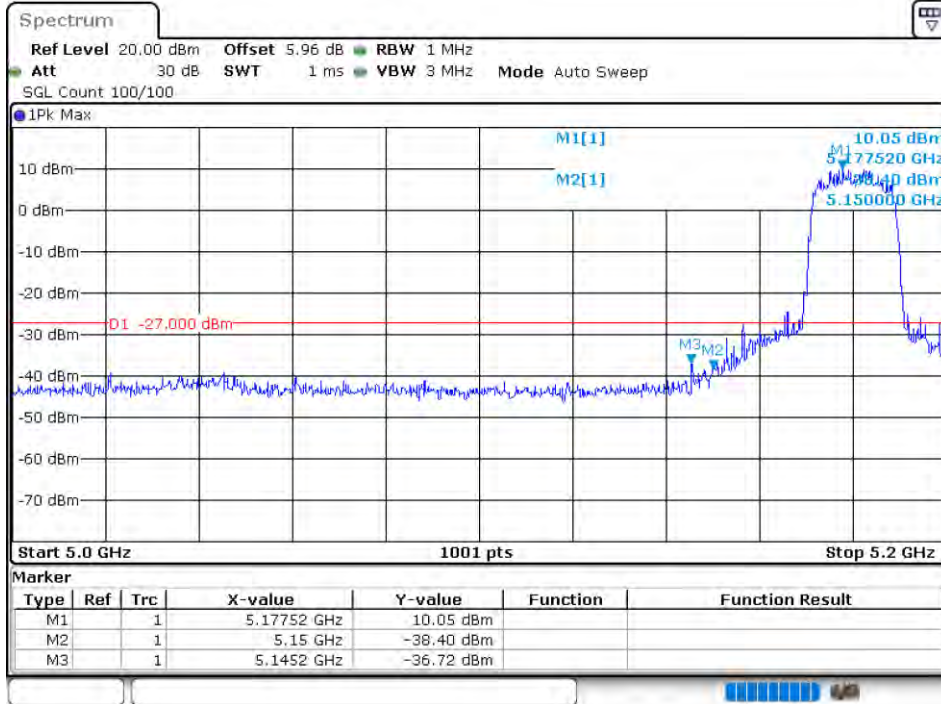
Band Edge NVNT a 5180MHz Low Ant1



Band Edge NVNT a 5240MHz High Ant1



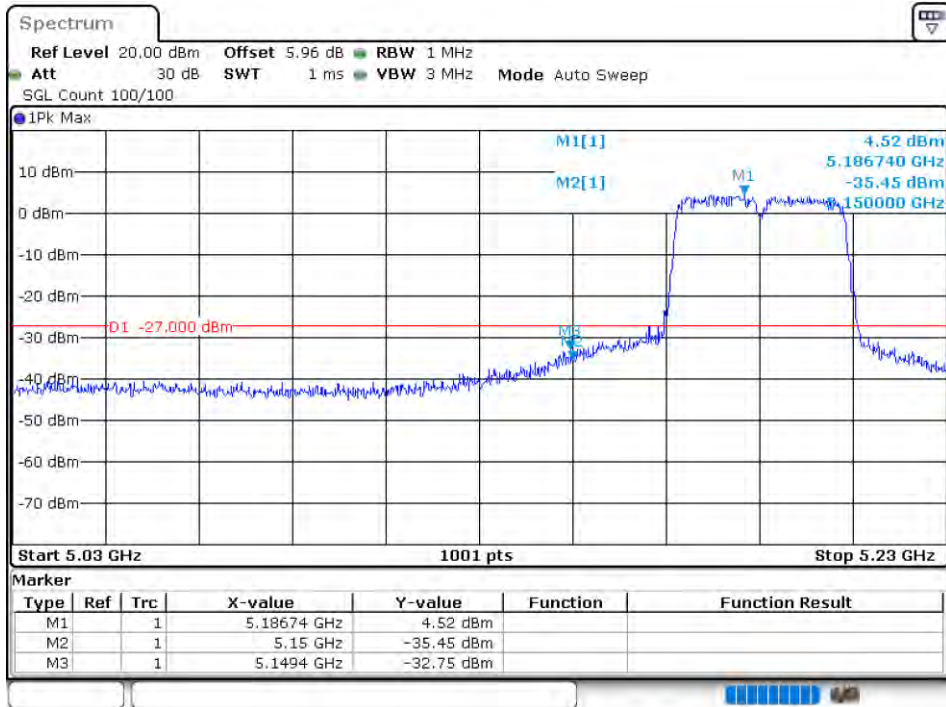
Band Edge NVNT n20 5180MHz Low Ant1



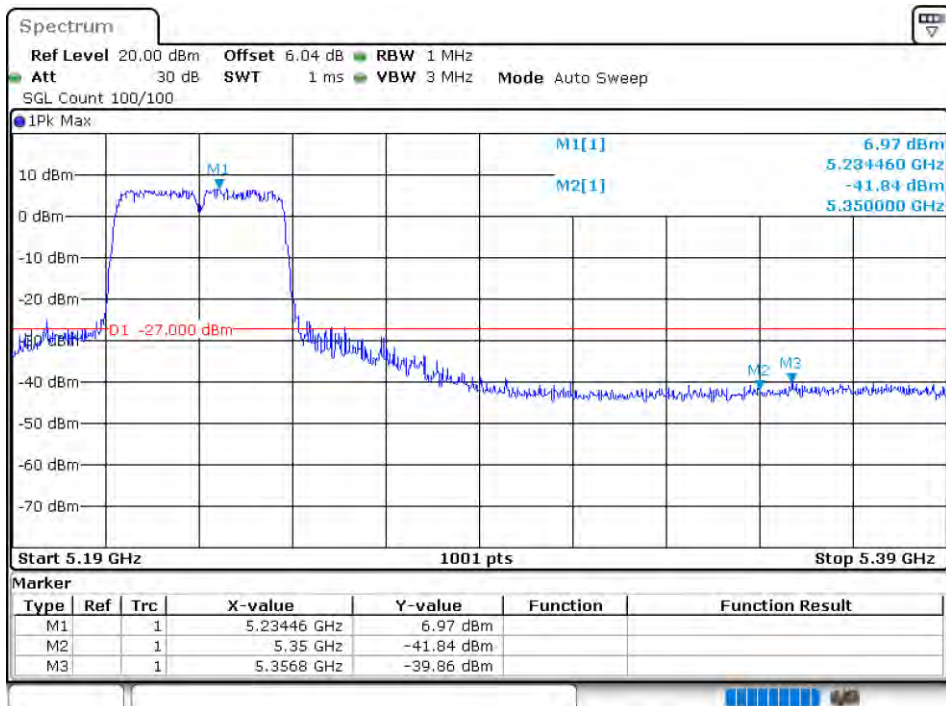
Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1

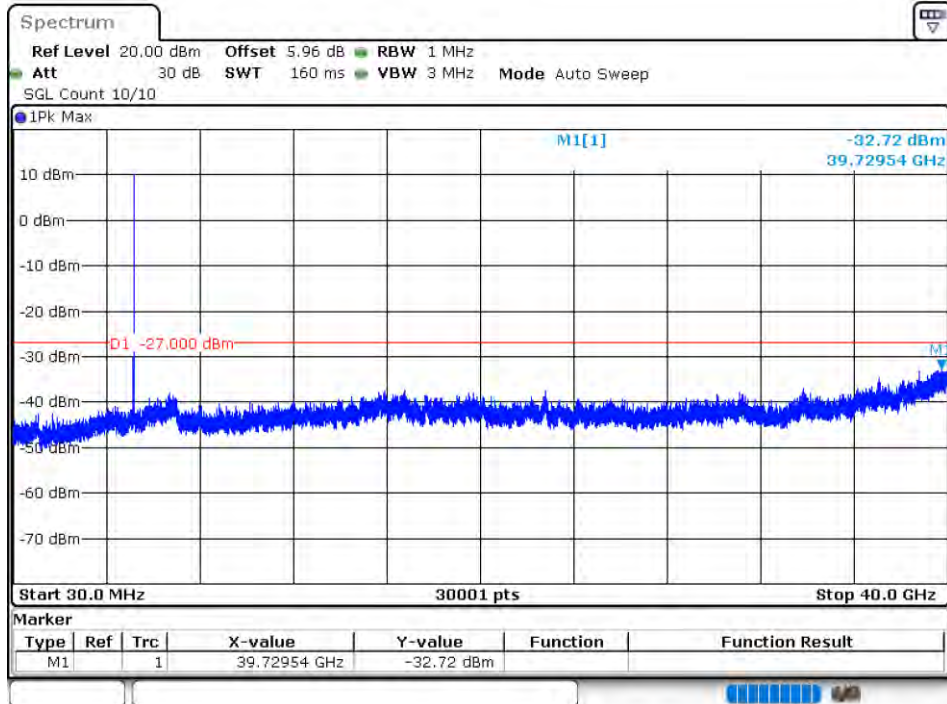


Conducted RF Spurious Emission

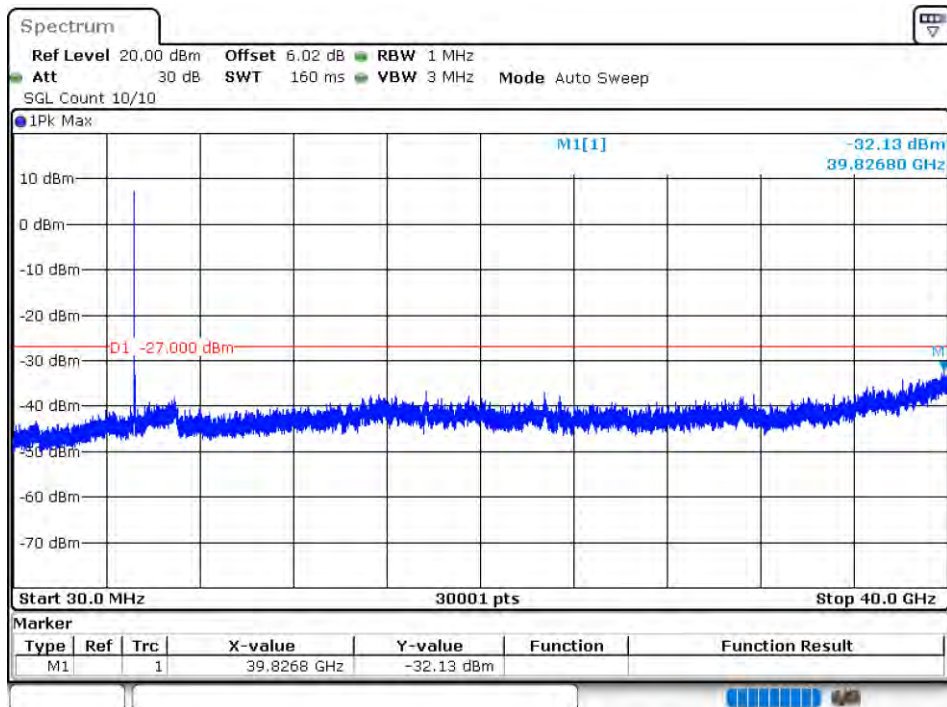
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-32.71	-27	Pass
NVNT	a	5200	Ant1	-32.13	-27	Pass
NVNT	a	5240	Ant1	-32.28	-27	Pass
NVNT	n20	5180	Ant1	-32.12	-27	Pass
NVNT	n20	5200	Ant1	-32.19	-27	Pass
NVNT	n20	5240	Ant1	-32.21	-27	Pass
NVNT	n40	5190	Ant1	-32.67	-27	Pass
NVNT	n40	5230	Ant1	-32.33	-27	Pass

Test Graphs

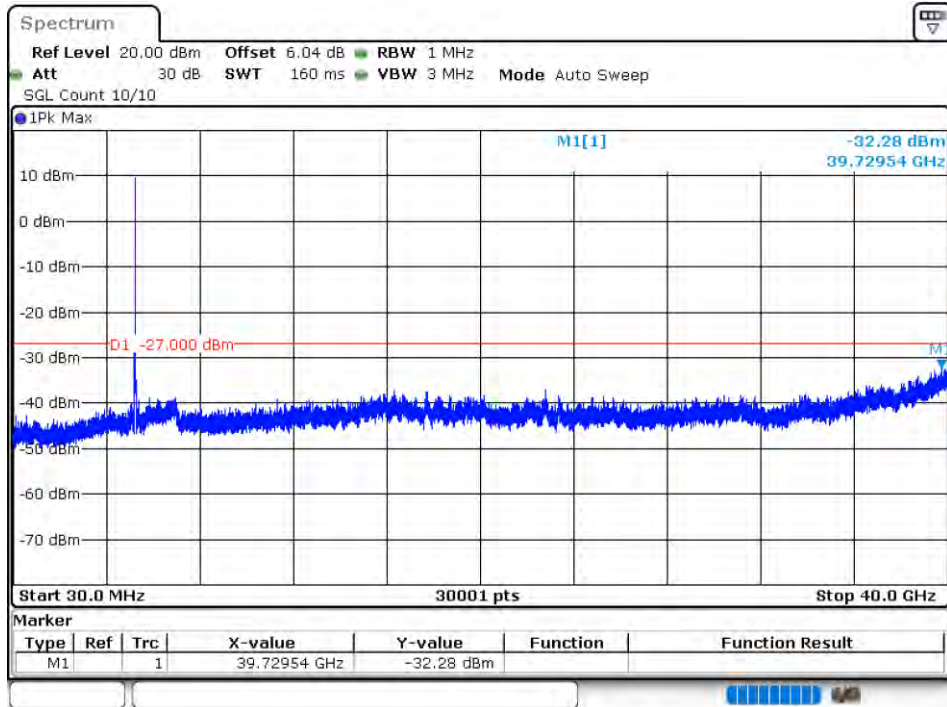
Tx. Spurious NVNT a 5180MHz Ant1 Emission



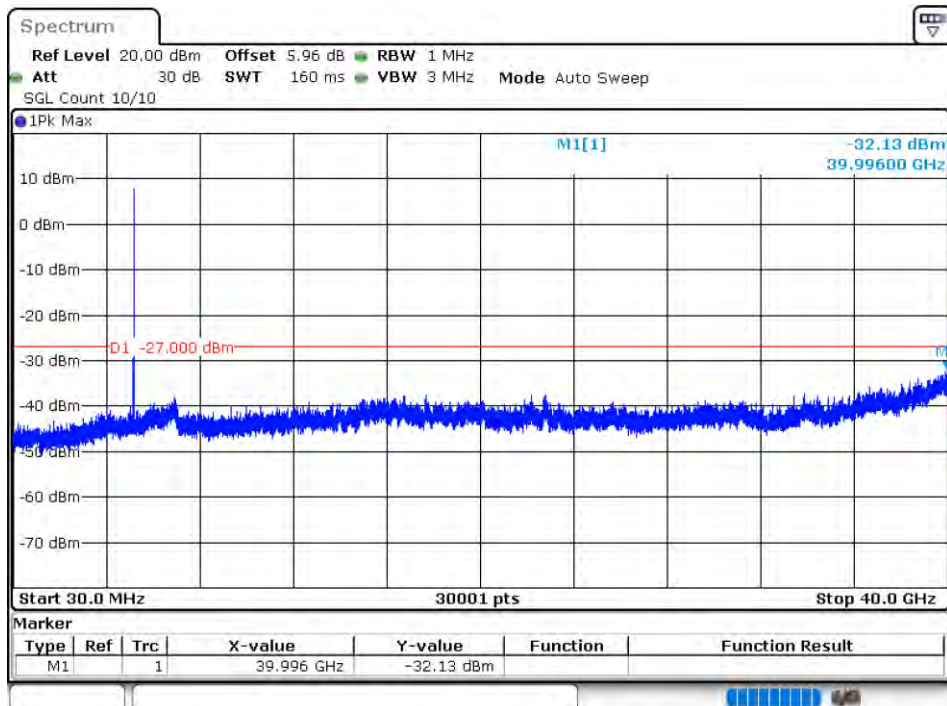
Tx. Spurious NVNT a 5200MHz Ant1 Emission



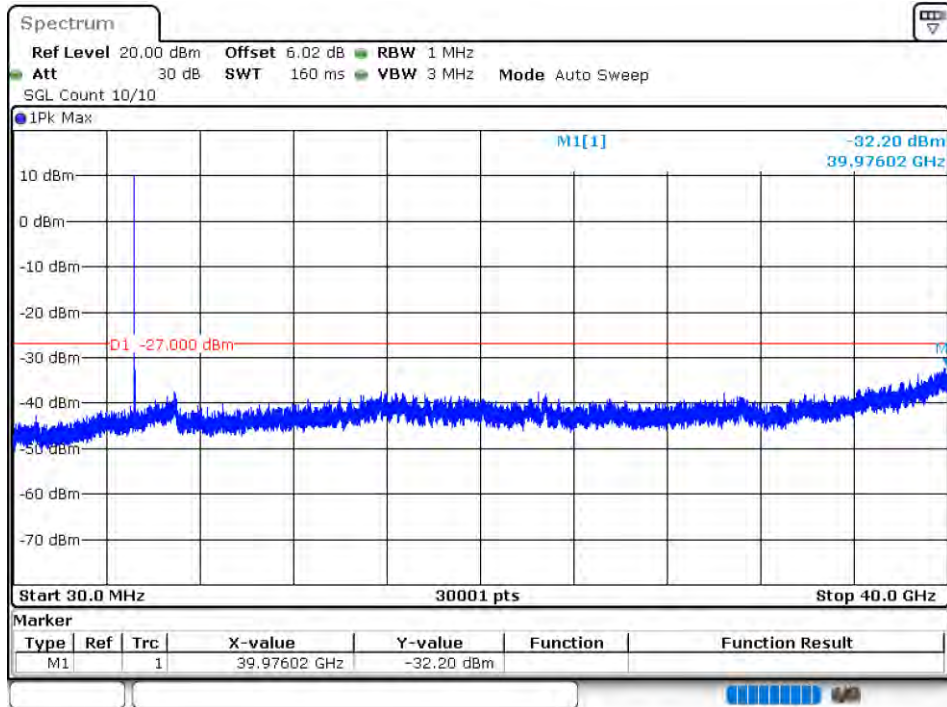
Tx. Spurious NVNT a 5240MHz Ant1 Emission



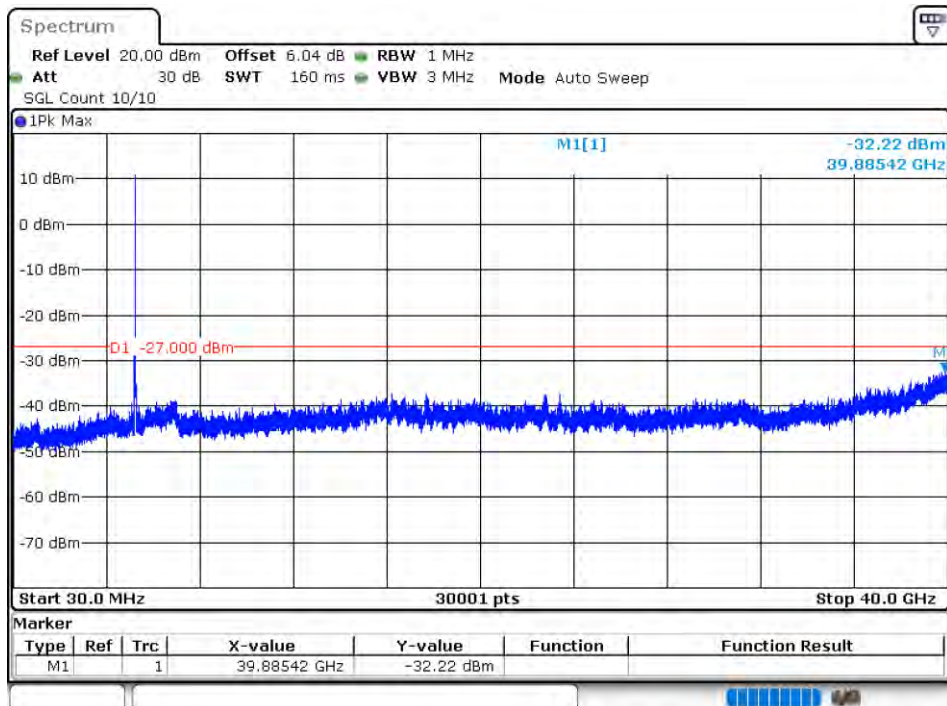
Tx. Spurious NVNT n20 5180MHz Ant1 Emission



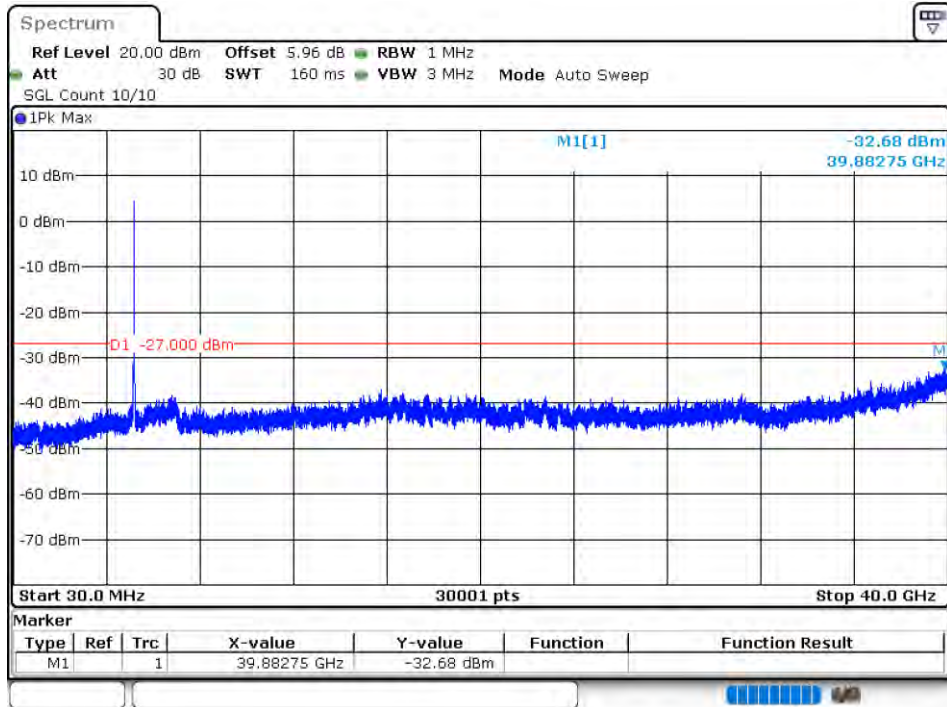
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



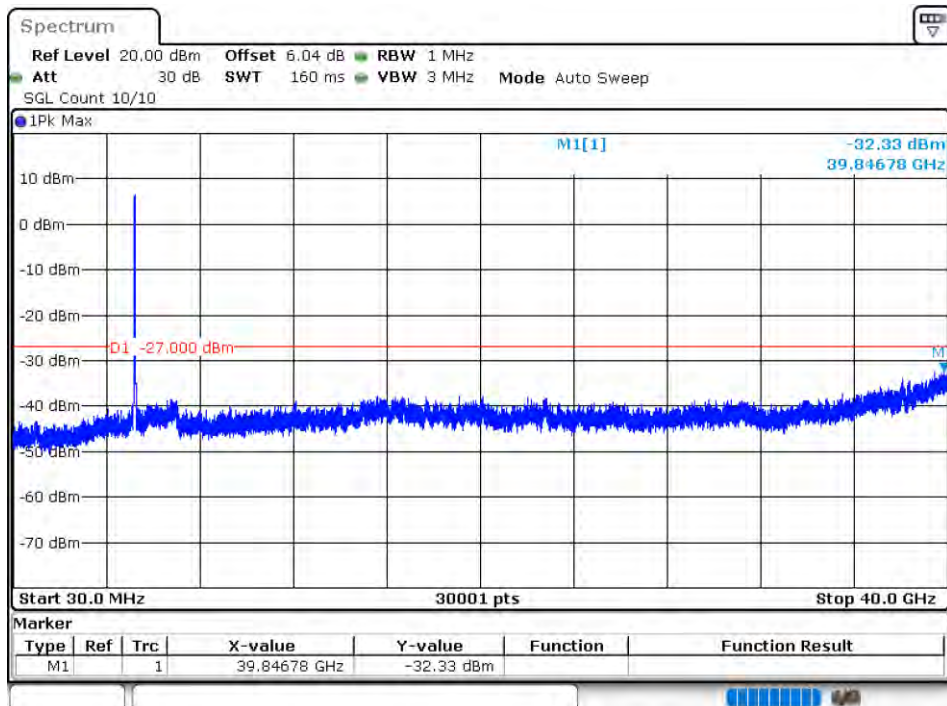
Tx. Spurious NVNT n20 5240MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant1 Emission



Tx. Spurious NVNT n40 5230MHz Ant1 Emission



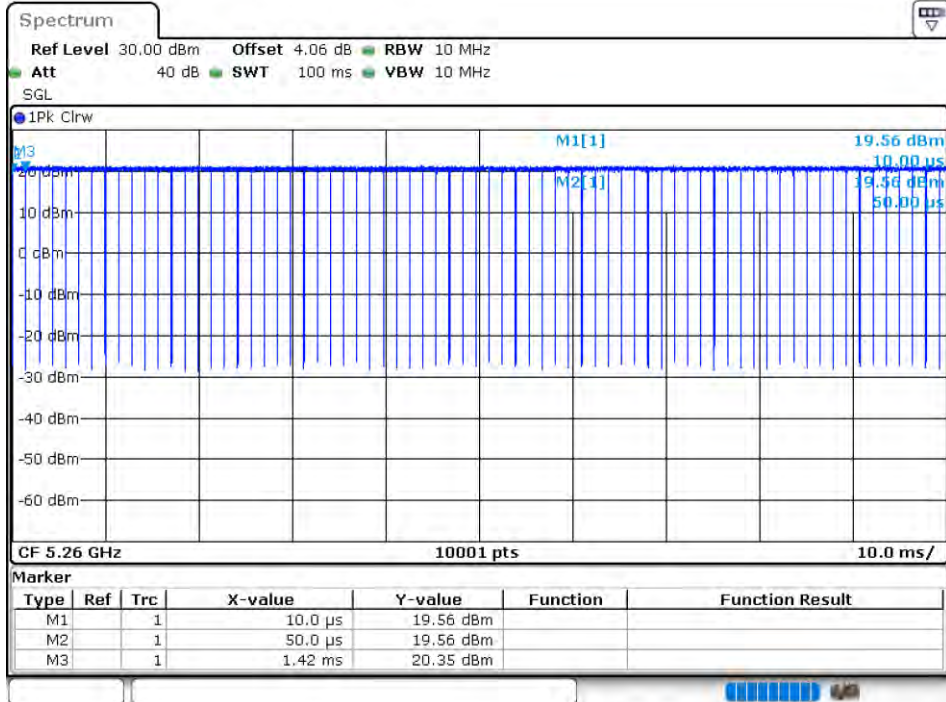
5.3G WIFI

Duty Cycle

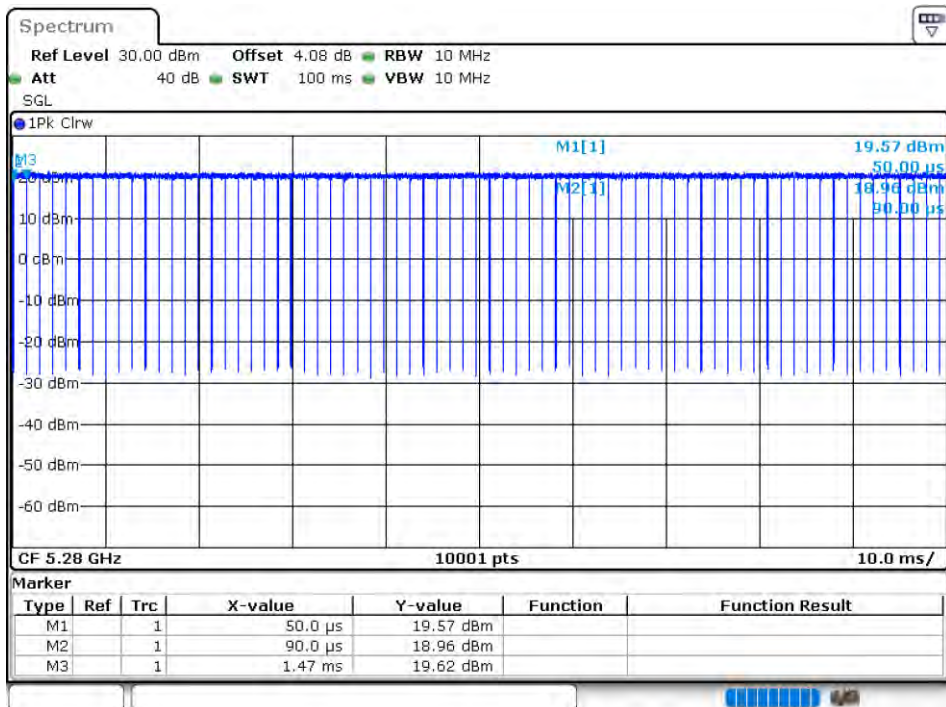
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.83	0.1	0.73
NVNT	a	5280	Ant1	97.82	0.1	0.72
NVNT	a	5320	Ant1	97.86	0.09	0.72
NVNT	n20	5260	Ant1	97.69	0.1	0.78
NVNT	n20	5280	Ant1	97.69	0.1	0.78
NVNT	n20	5320	Ant1	97.72	0.1	0.78
NVNT	n40	5270	Ant1	95.36	0.21	1.56
NVNT	n40	5310	Ant1	95.35	0.21	1.56

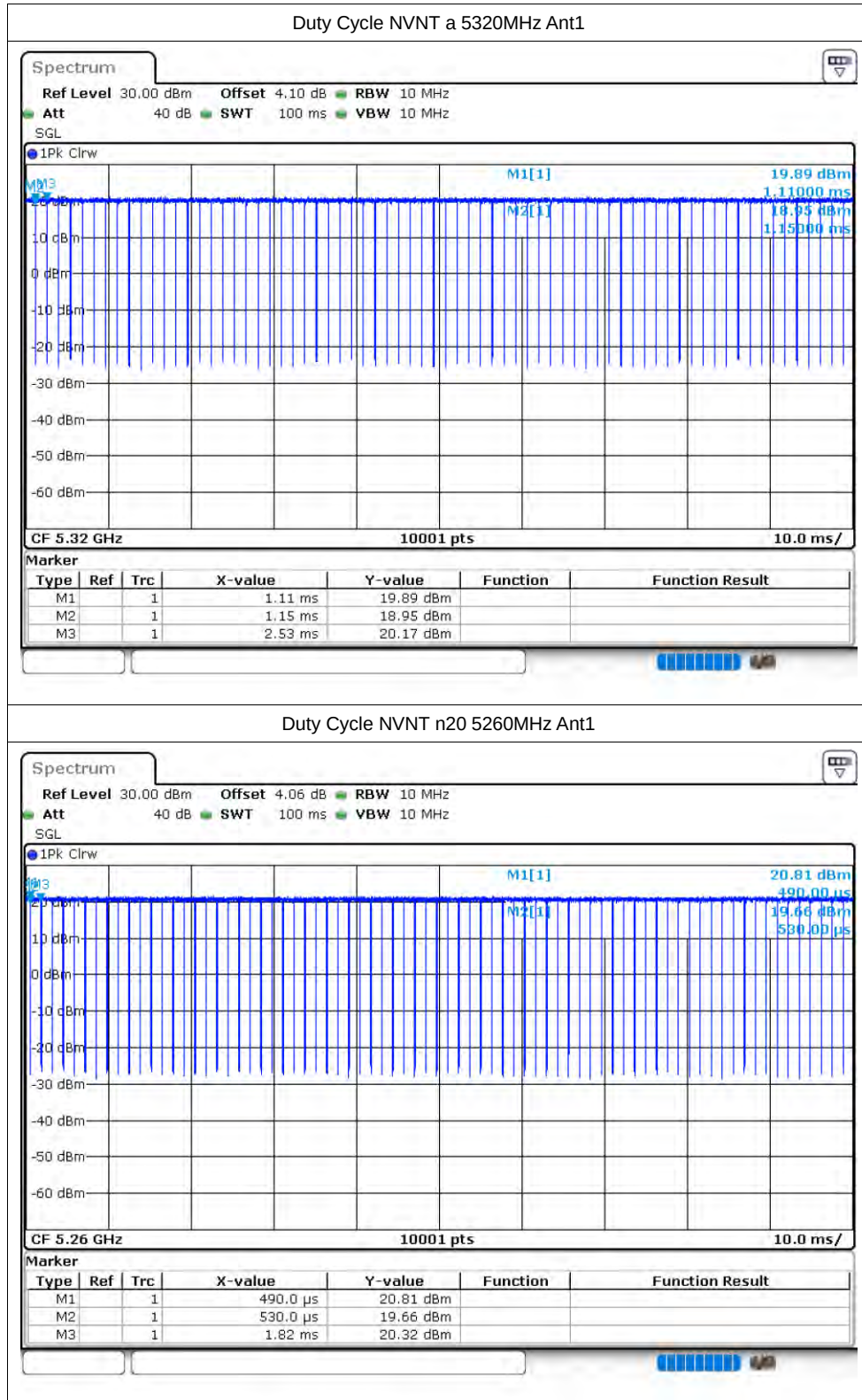
Test Graphs

Duty Cycle NVNT a 5260MHz Ant1

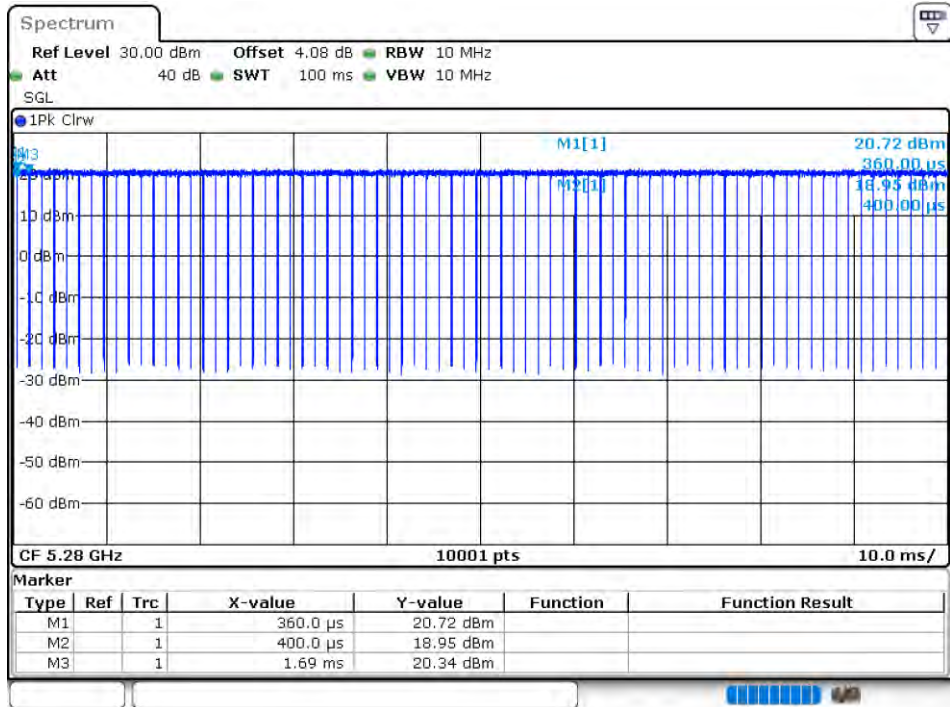


Duty Cycle NVNT a 5280MHz Ant1

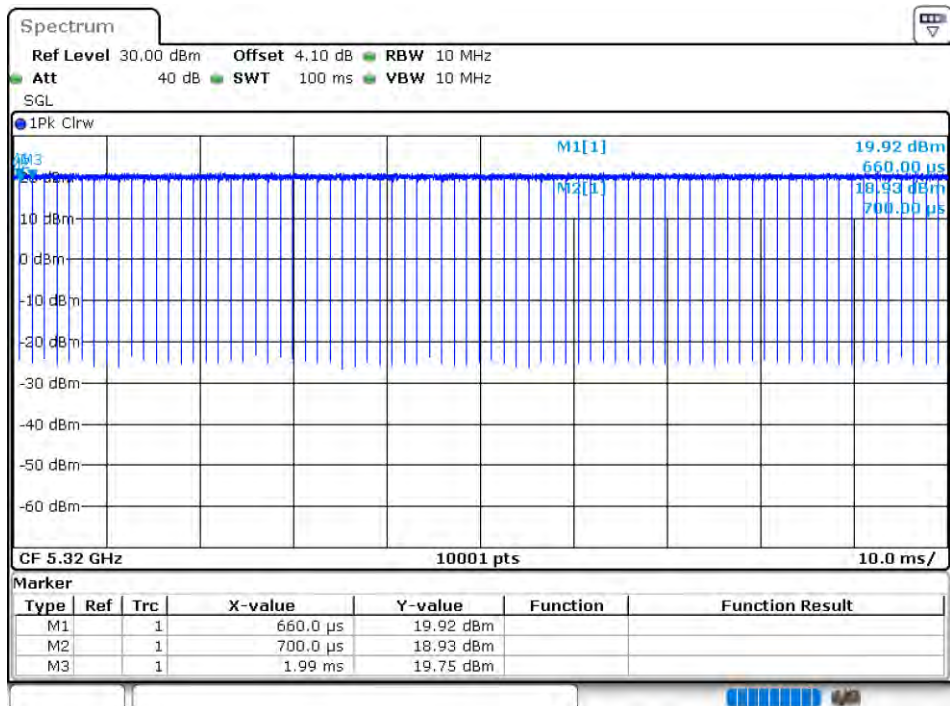


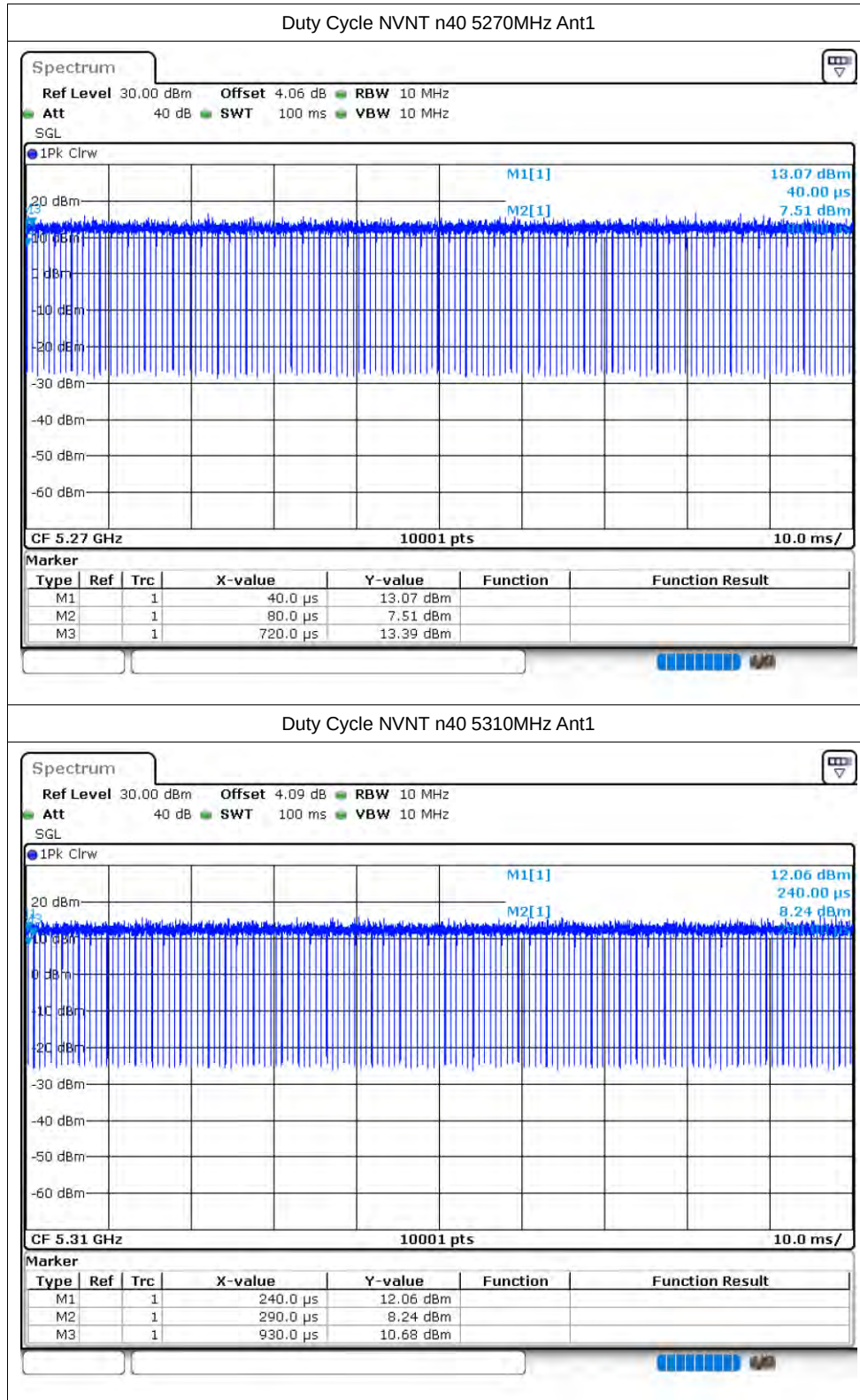


Duty Cycle NVNT n20 5280MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	13.18	23.64	Pass
NVNT	a	5280	Ant1	12.9	23.58	Pass
NVNT	a	5320	Ant1	13.38	23.79	Pass
NVNT	n20	5260	Ant1	13.61	23.86	Pass
NVNT	n20	5280	Ant1	12.93	23.78	Pass
NVNT	n20	5320	Ant1	13.08	23.84	Pass
NVNT	n40	5270	Ant1	11.38	24	Pass
NVNT	n40	5310	Ant1	11.62	24	Pass

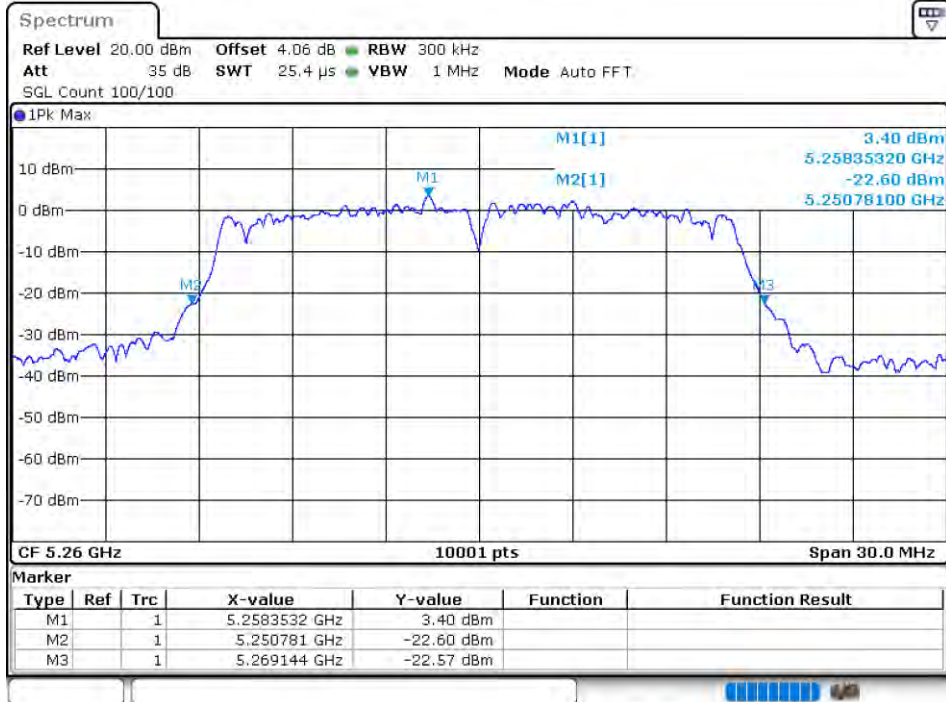
Note: The average power contains duty factor

-26dB Bandwidth

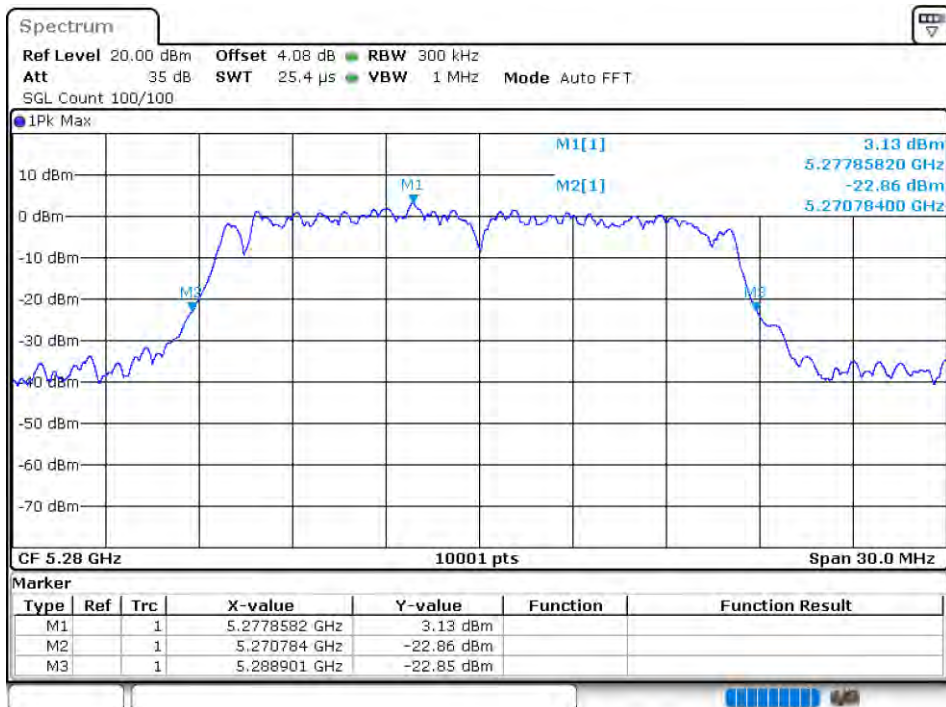
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	18.363	Pass
NVNT	a	5280	Ant1	18.117	Pass
NVNT	a	5320	Ant1	19.023	Pass
NVNT	n20	5260	Ant1	19.323	Pass
NVNT	n20	5280	Ant1	18.966	Pass
NVNT	n20	5320	Ant1	19.242	Pass
NVNT	n40	5270	Ant1	39.312	Pass
NVNT	n40	5310	Ant1	39.54	Pass

Test Graphs

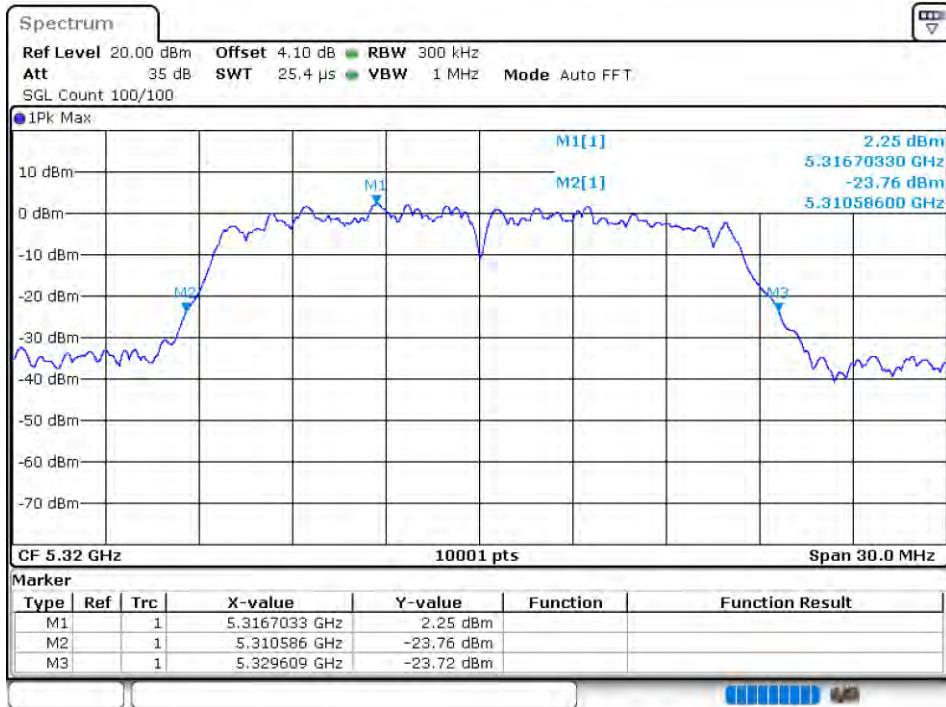
-26dB Bandwidth NVNT a 5260MHz Ant1



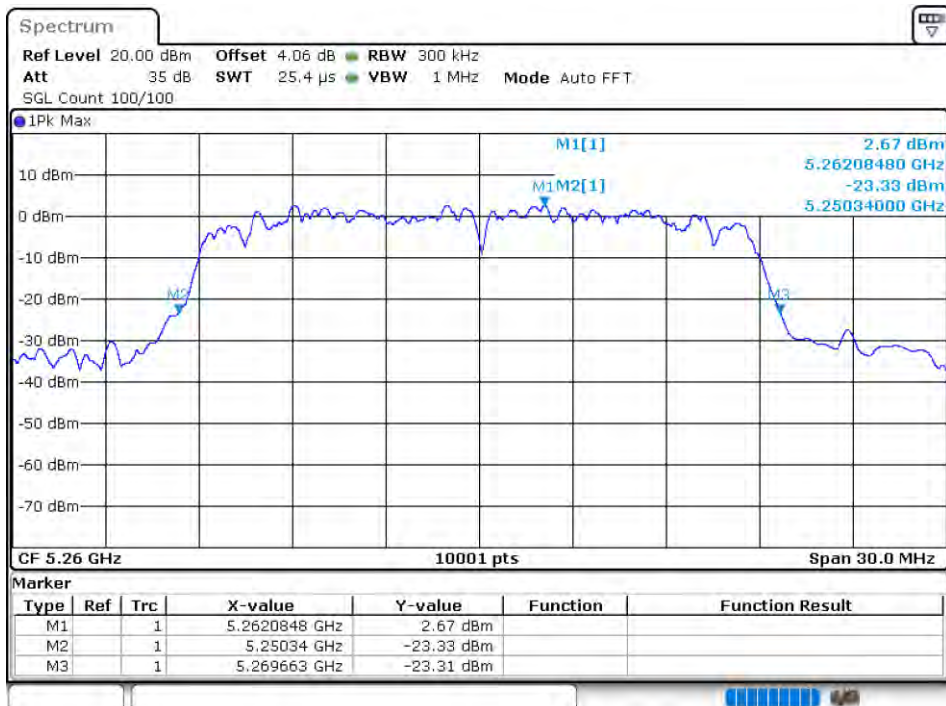
-26dB Bandwidth NVNT a 5280MHz Ant1



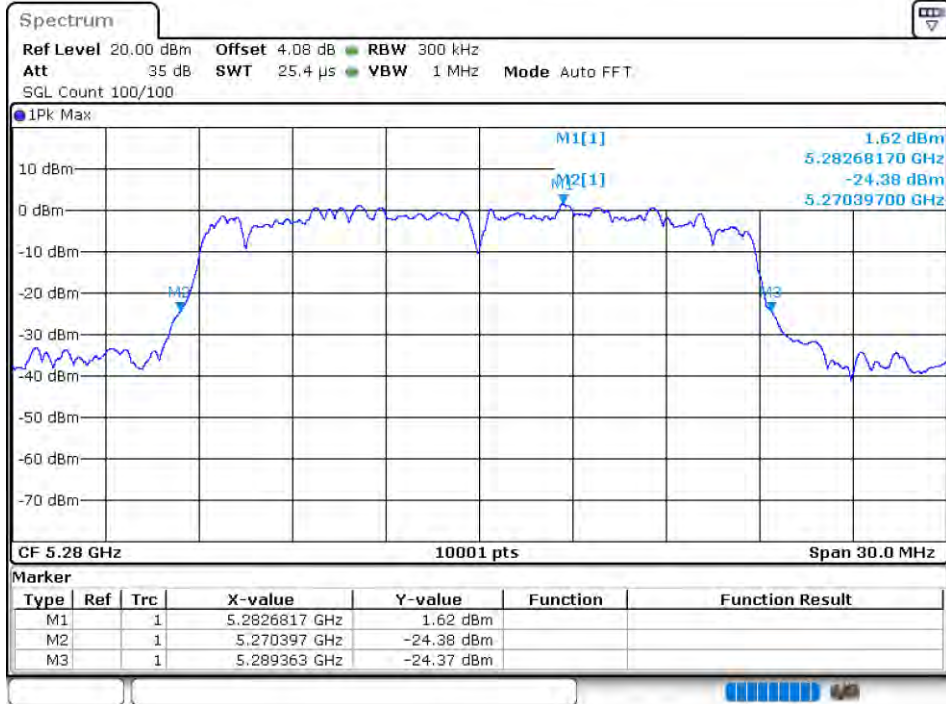
-26dB Bandwidth NVNT a 5320MHz Ant1



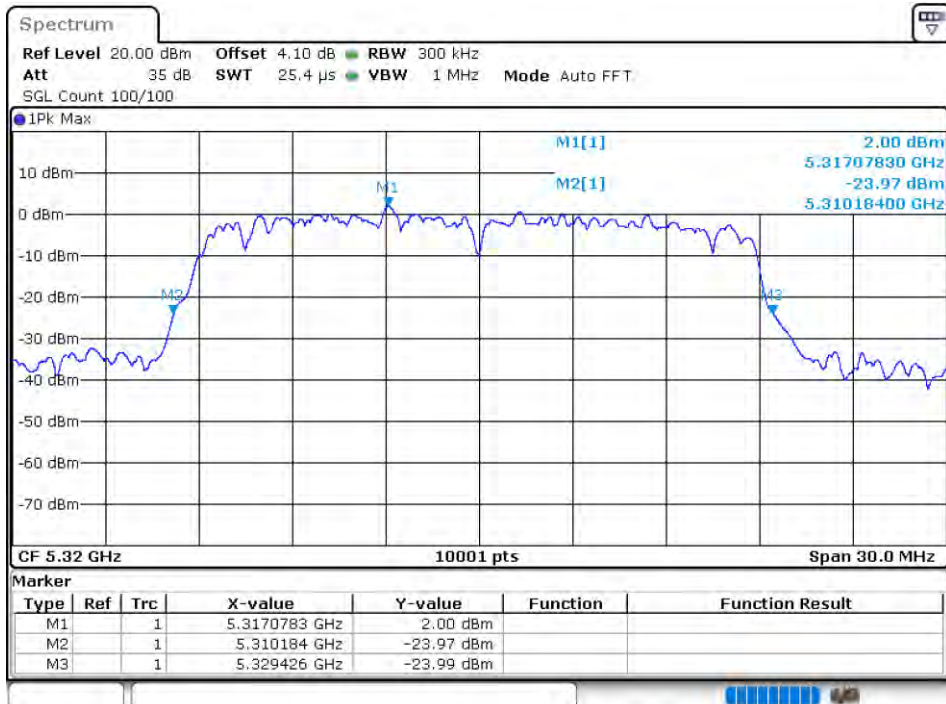
-26dB Bandwidth NVNT n20 5260MHz Ant1



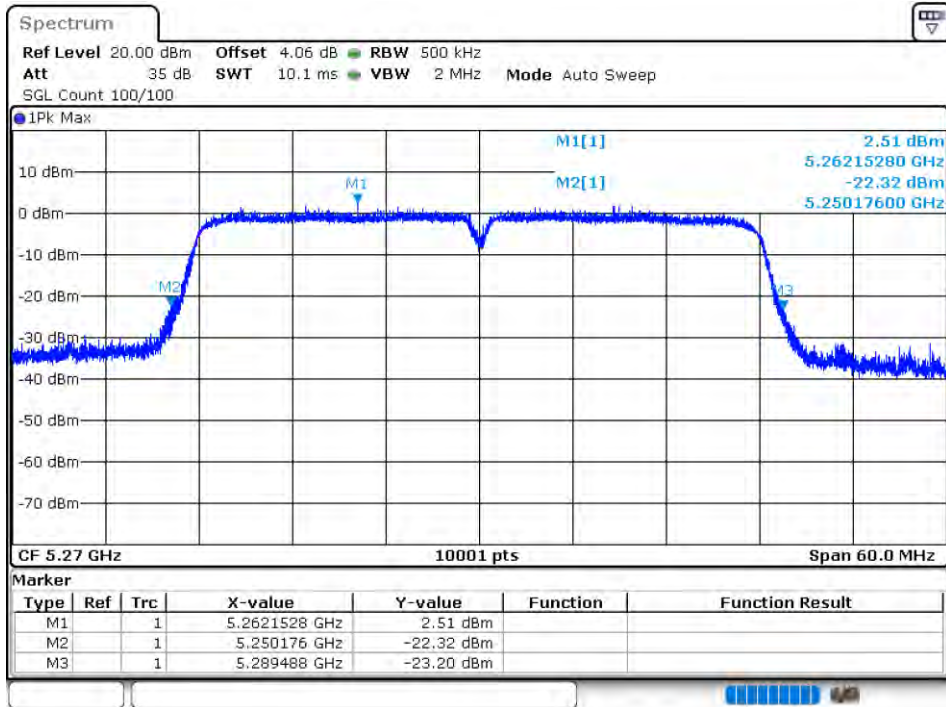
-26dB Bandwidth NVNT n20 5280MHz Ant1



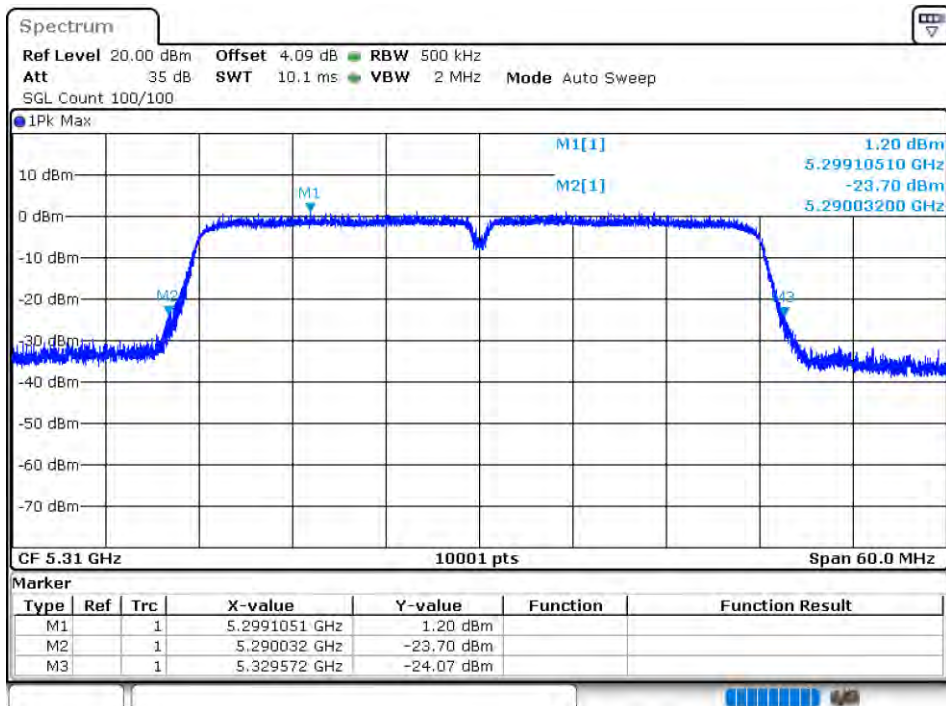
-26dB Bandwidth NVNT n20 5320MHz Ant1



-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5260	Ant1	16.405
NVNT	a	5280	Ant1	16.414
NVNT	a	5320	Ant1	16.345
NVNT	n20	5260	Ant1	17.356
NVNT	n20	5280	Ant1	17.404
NVNT	n20	5320	Ant1	17.374
NVNT	n40	5270	Ant1	35.852
NVNT	n40	5310	Ant1	35.858

Test Graphs

OBW NVNT a 5260MHz Ant1



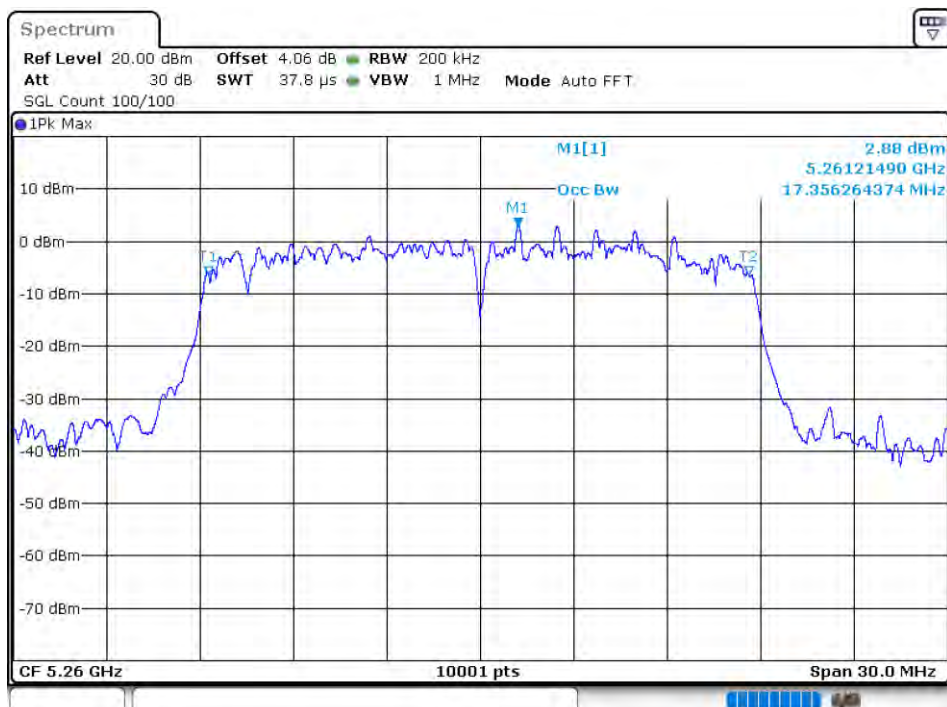
OBW NVNT a 5280MHz Ant1

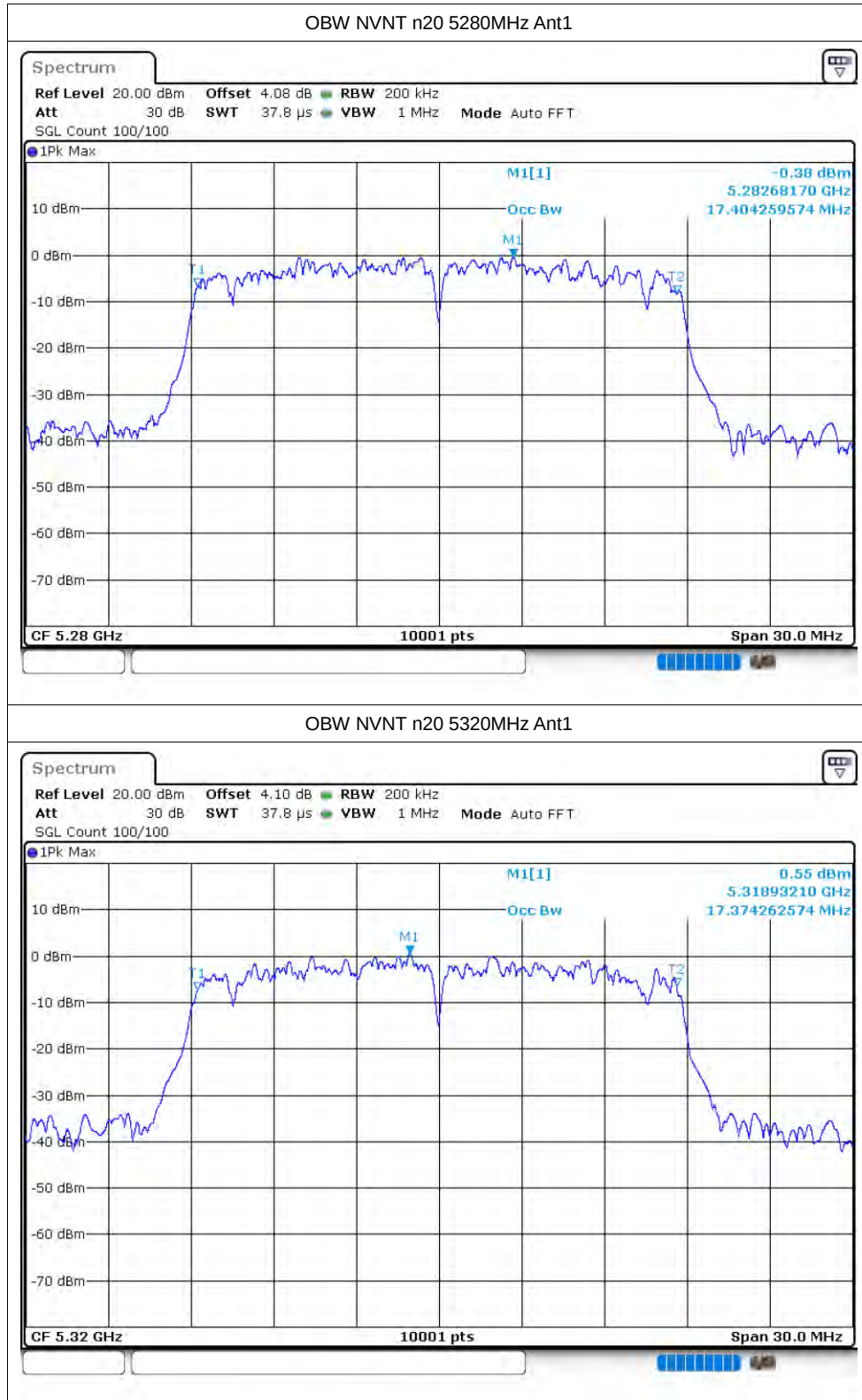


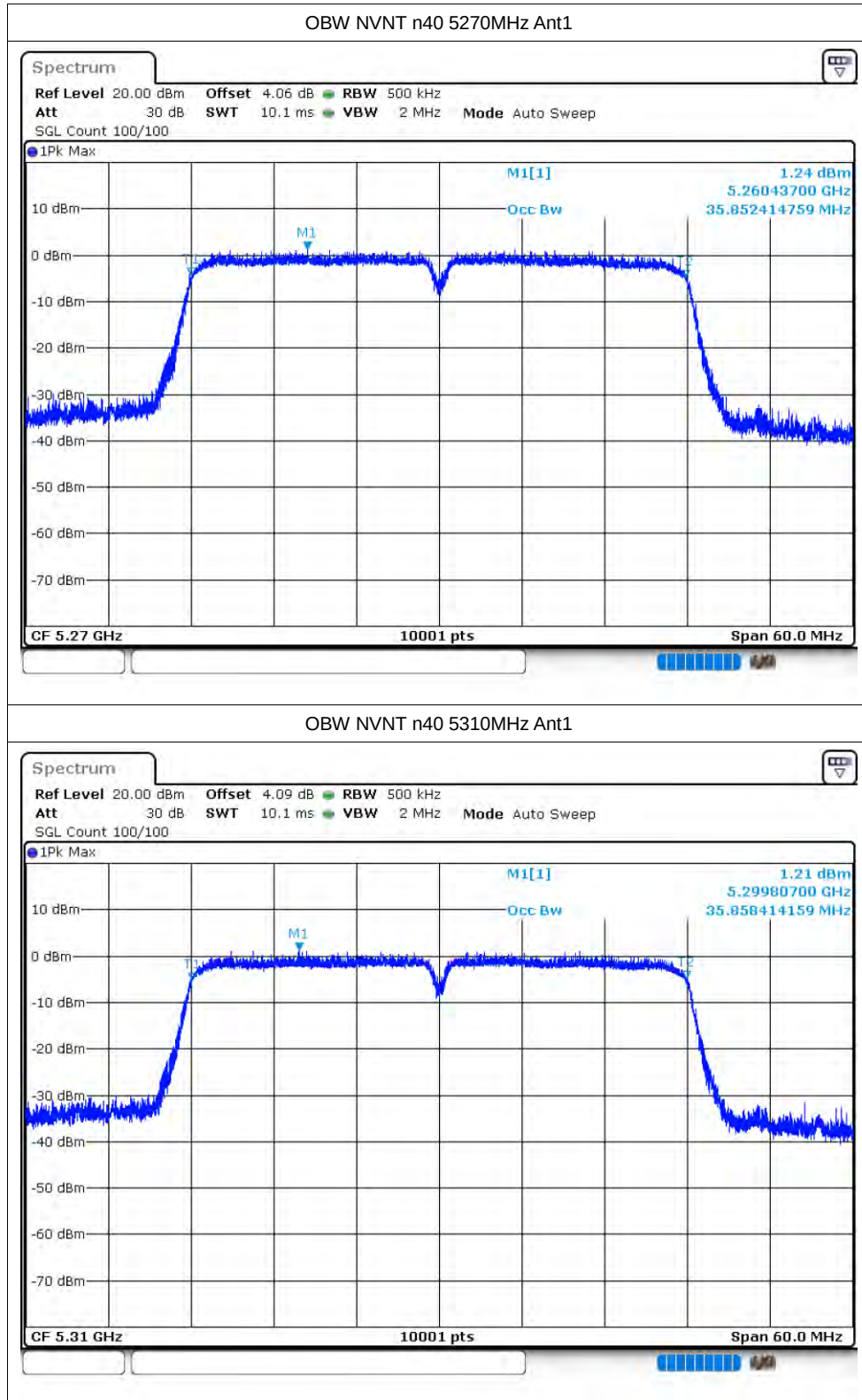
OBW NVNT a 5320MHz Ant1



OBW NVNT n20 5260MHz Ant1





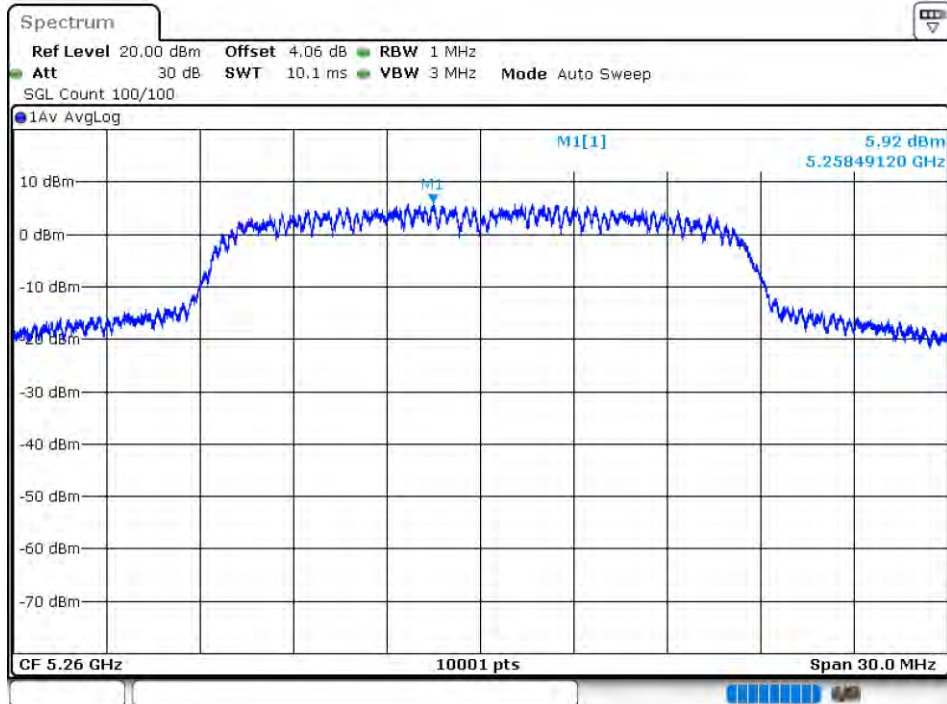


Maximum Power Spectral Density Level

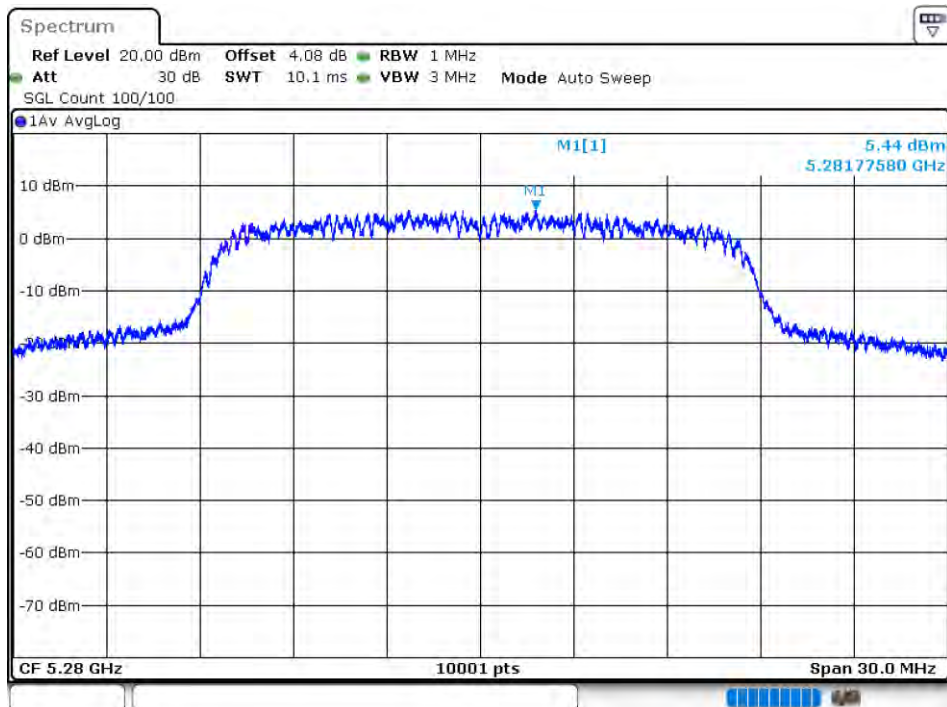
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	5.92	0.1	6.02	11	Pass
NVNT	a	5280	Ant1	5.44	0.1	5.54	11	Pass
NVNT	a	5320	Ant1	5.5	0.09	5.59	11	Pass
NVNT	n20	5260	Ant1	6.1	0.1	6.2	11	Pass
NVNT	n20	5280	Ant1	5.33	0.1	5.43	11	Pass
NVNT	n20	5320	Ant1	5.28	0.1	5.38	11	Pass
NVNT	n40	5270	Ant1	-5.88	0.21	-5.67	11	Pass
NVNT	n40	5310	Ant1	-5.79	0.21	-5.58	11	Pass

Test Graphs

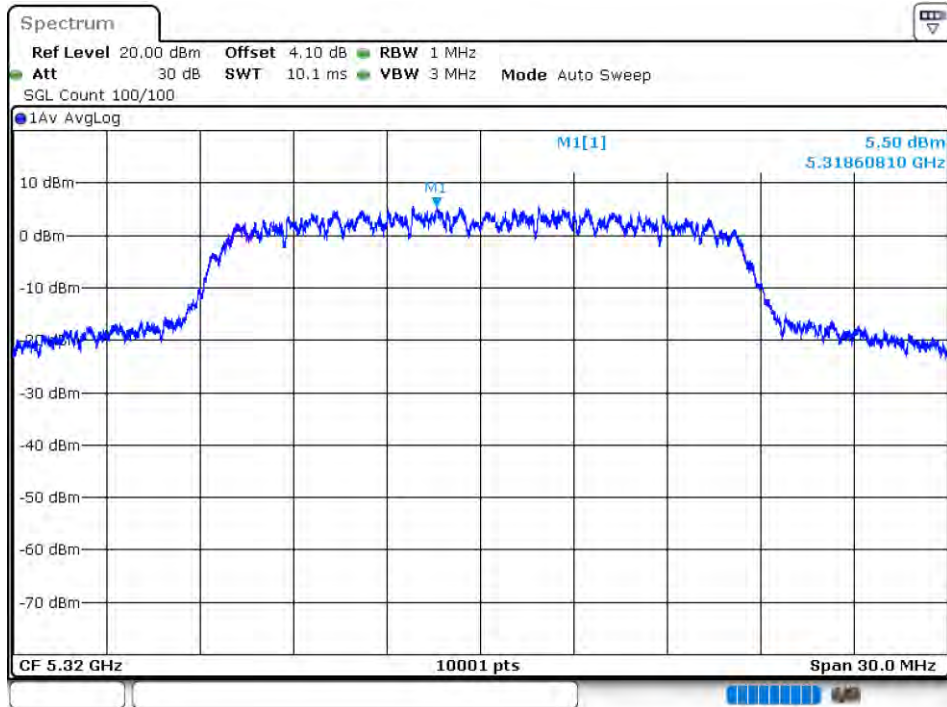
PSD NVNT a 5260MHz Ant1



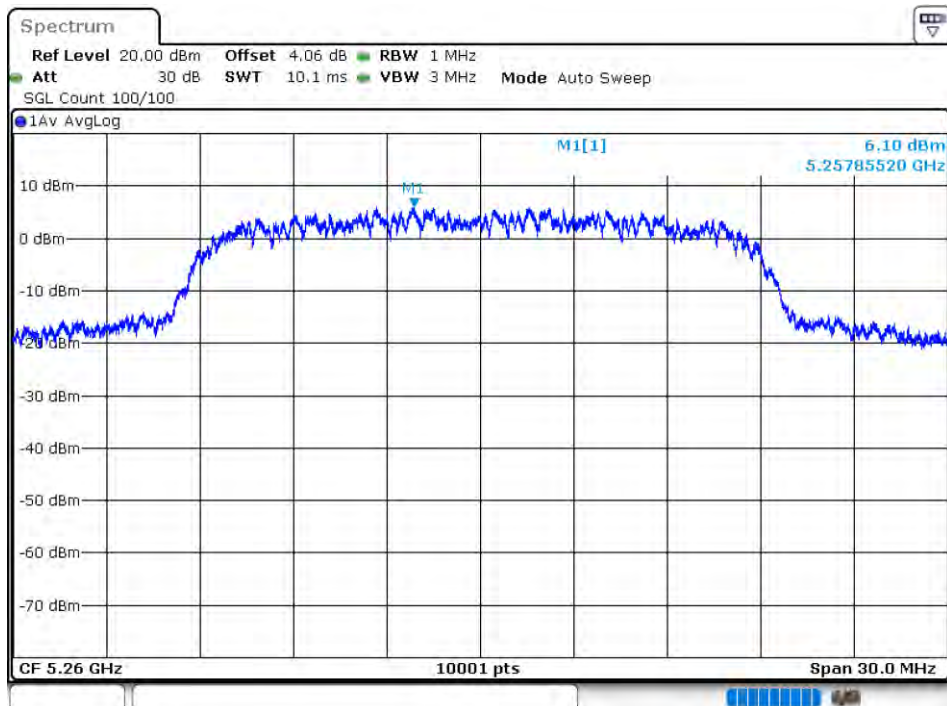
PSD NVNT a 5280MHz Ant1

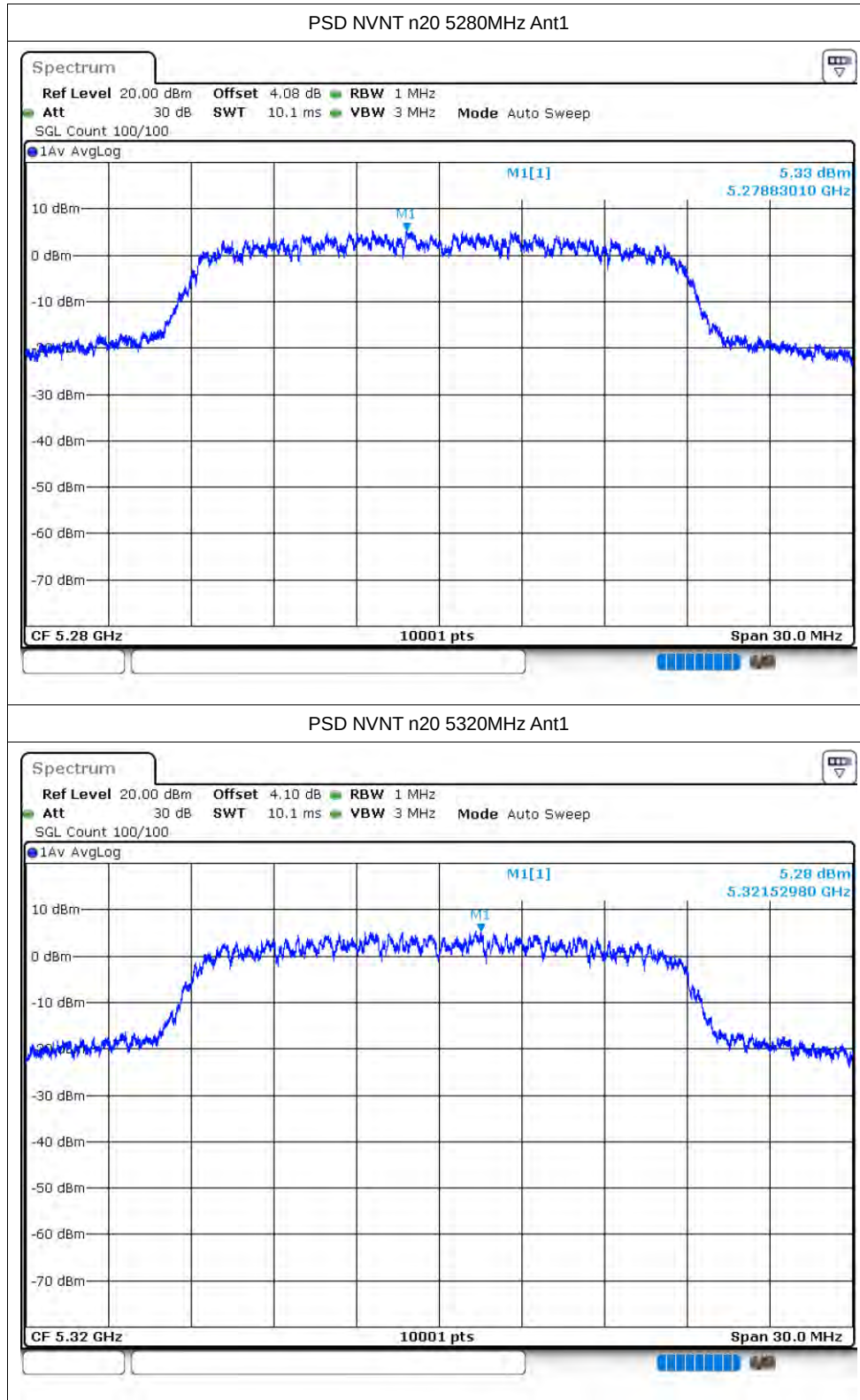


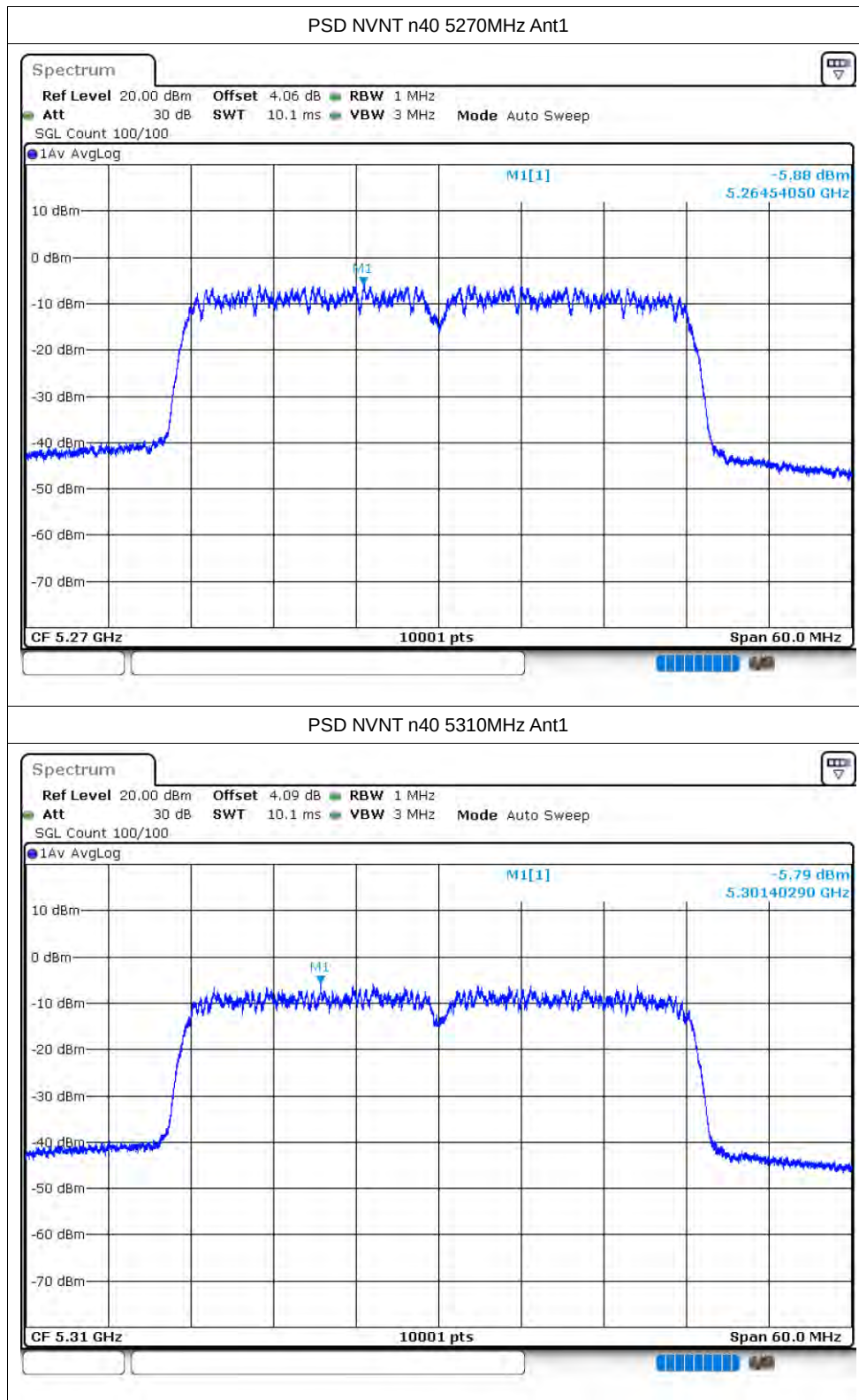
PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1







Band Edge

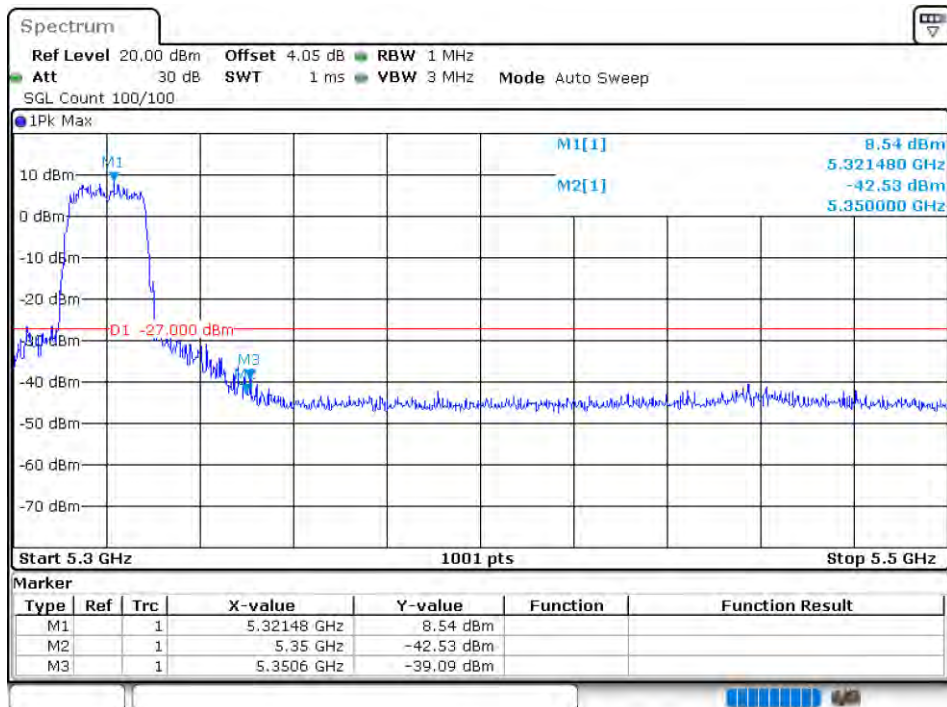
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	-39.16	-27	Pass
NVNT	a	5320	Ant1	-39.09	-27	Pass
NVNT	n20	5260	Ant1	-39.47	-27	Pass
NVNT	n20	5320	Ant1	-38.85	-27	Pass
NVNT	n40	5270	Ant1	-40.9	-27	Pass
NVNT	n40	5310	Ant1	-33.13	-27	Pass

Test Graphs

Band Edge NVNT a 5260MHz Low Ant1



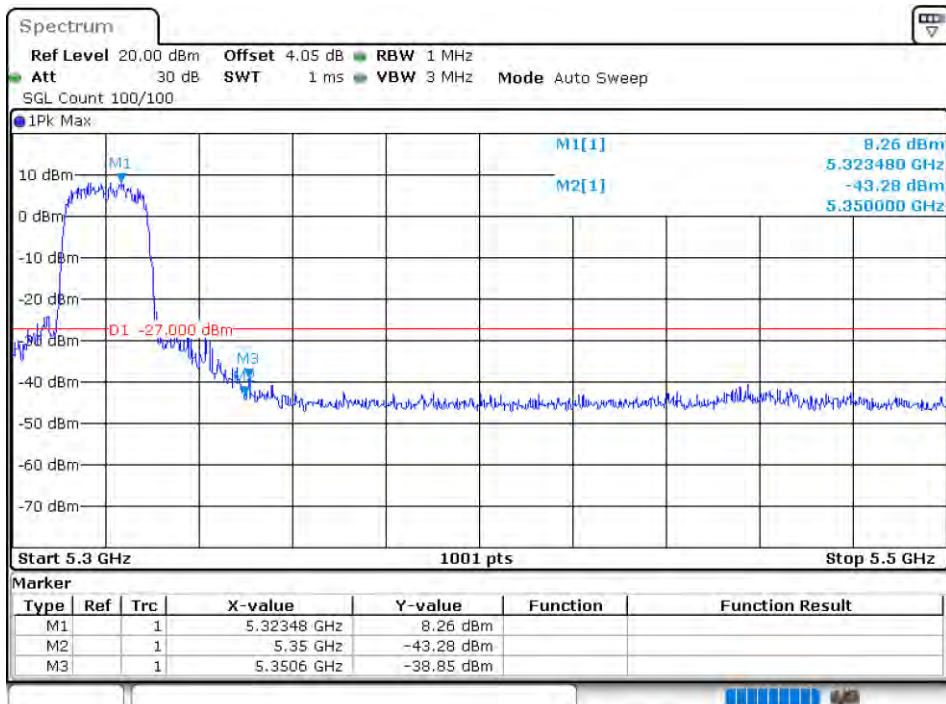
Band Edge NVNT a 5320MHz High Ant1



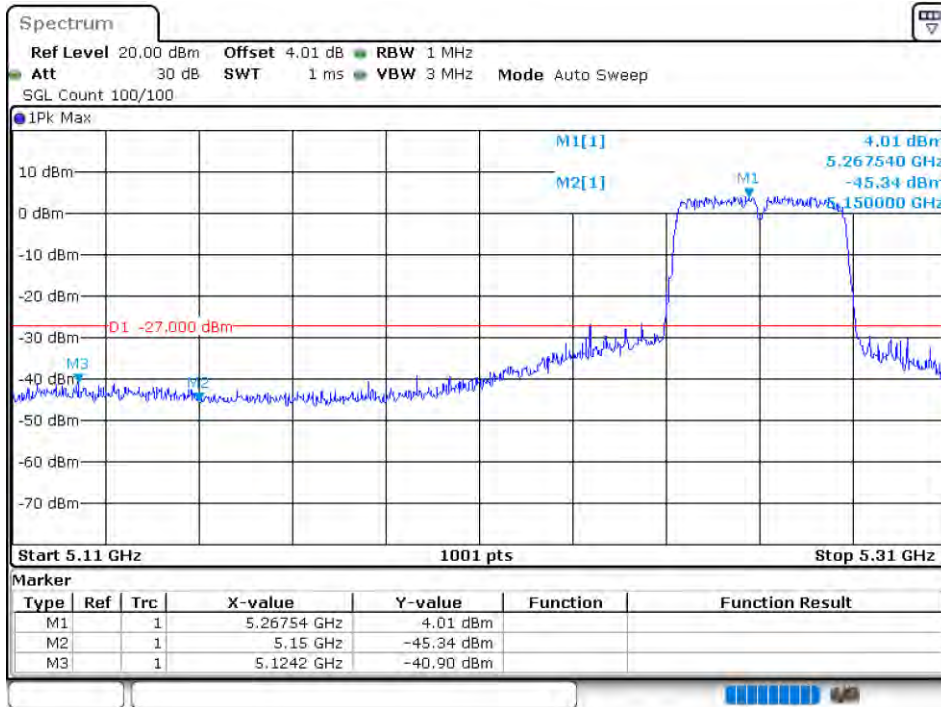
Band Edge NVNT n20 5260MHz Low Ant1



Band Edge NVNT n20 5320MHz High Ant1



Band Edge NVNT n40 5270MHz Low Ant1



Band Edge NVNT n40 5310MHz High Ant1

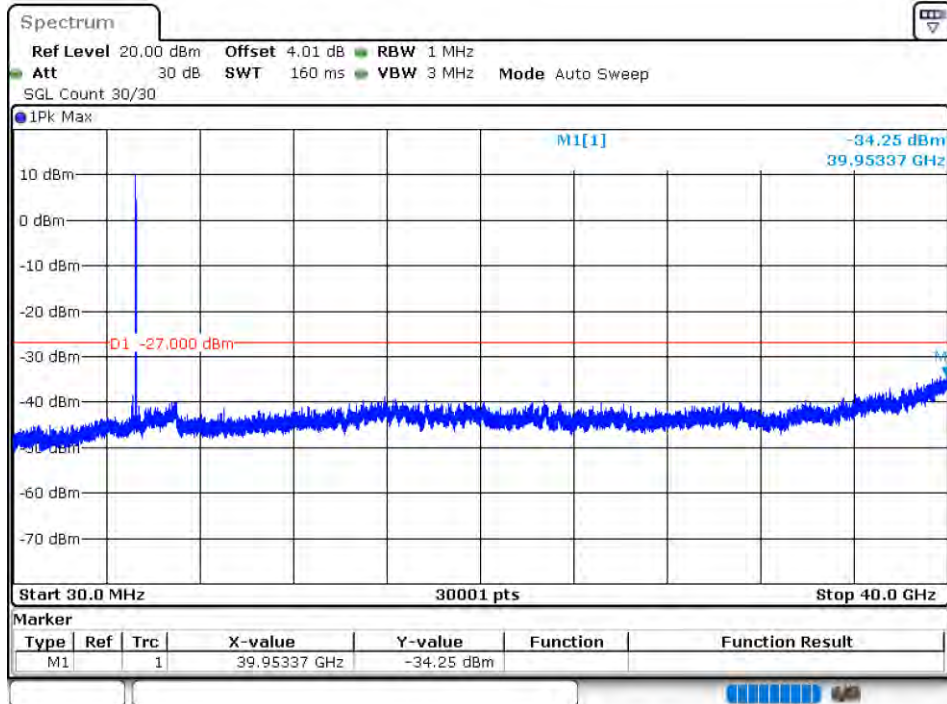


Conducted RF Spurious Emission

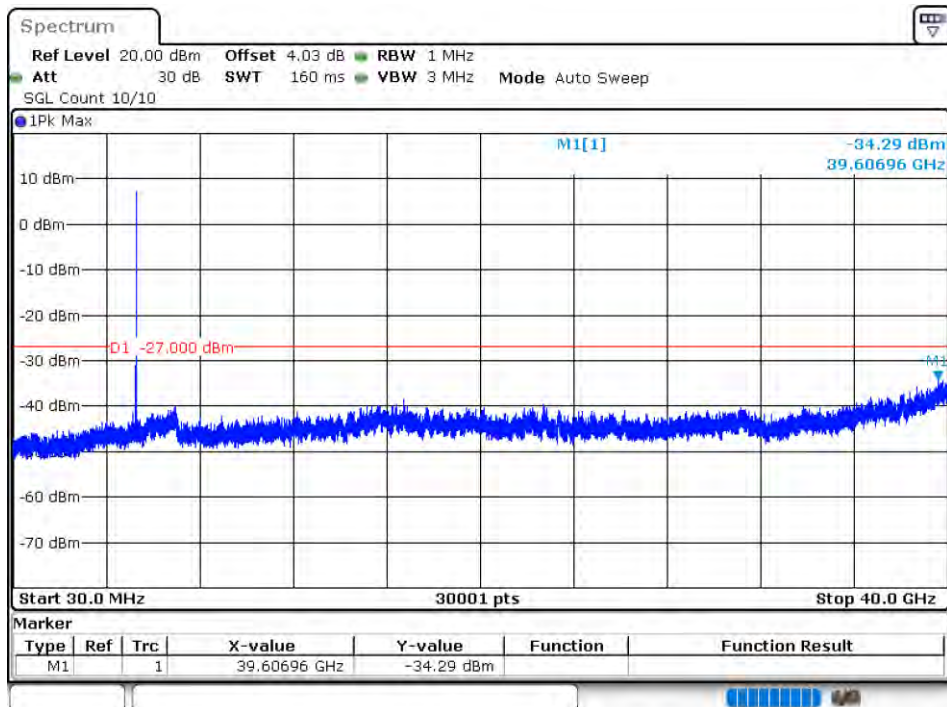
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5260	Ant1	-34.24	-27	Pass
NVNT	a	5280	Ant1	-34.28	-27	Pass
NVNT	a	5320	Ant1	-34.3	-27	Pass
NVNT	n20	5260	Ant1	-33	-27	Pass
NVNT	n20	5280	Ant1	-34.55	-27	Pass
NVNT	n20	5320	Ant1	-34.71	-27	Pass
NVNT	n40	5270	Ant1	-34.48	-27	Pass
NVNT	n40	5310	Ant1	-34.31	-27	Pass

Test Graphs

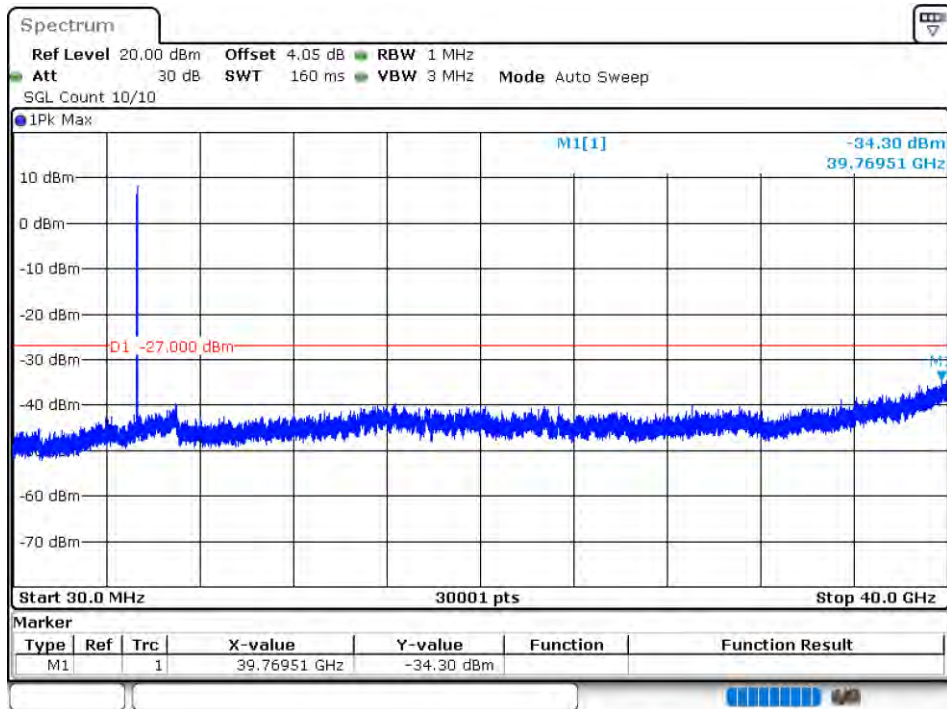
Tx. Spurious NVNT a 5260MHz Ant1 Emission



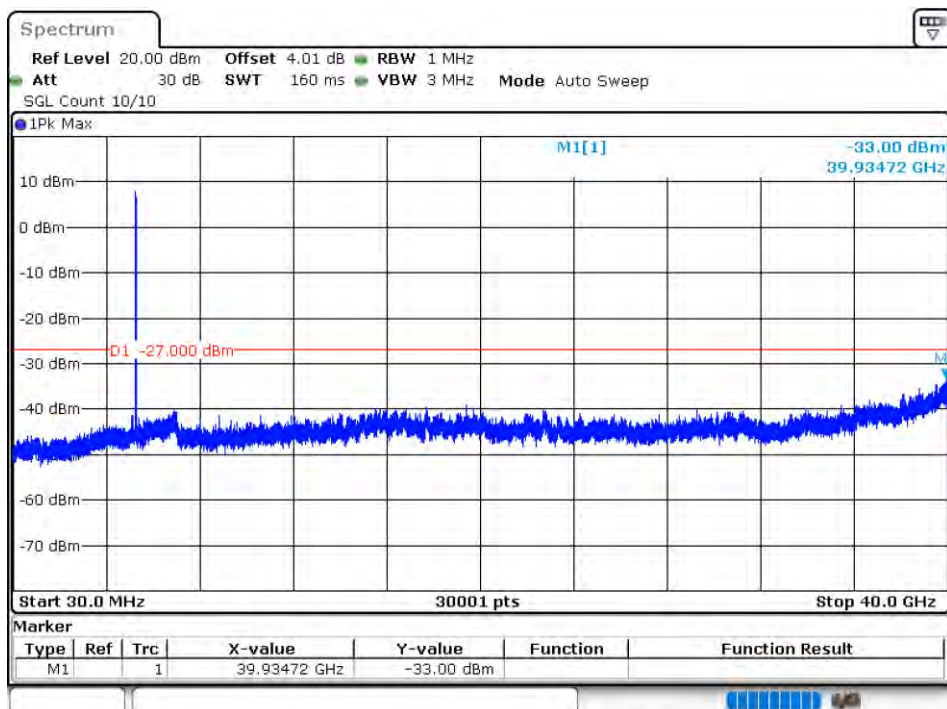
Tx. Spurious NVNT a 5280MHz Ant1 Emission



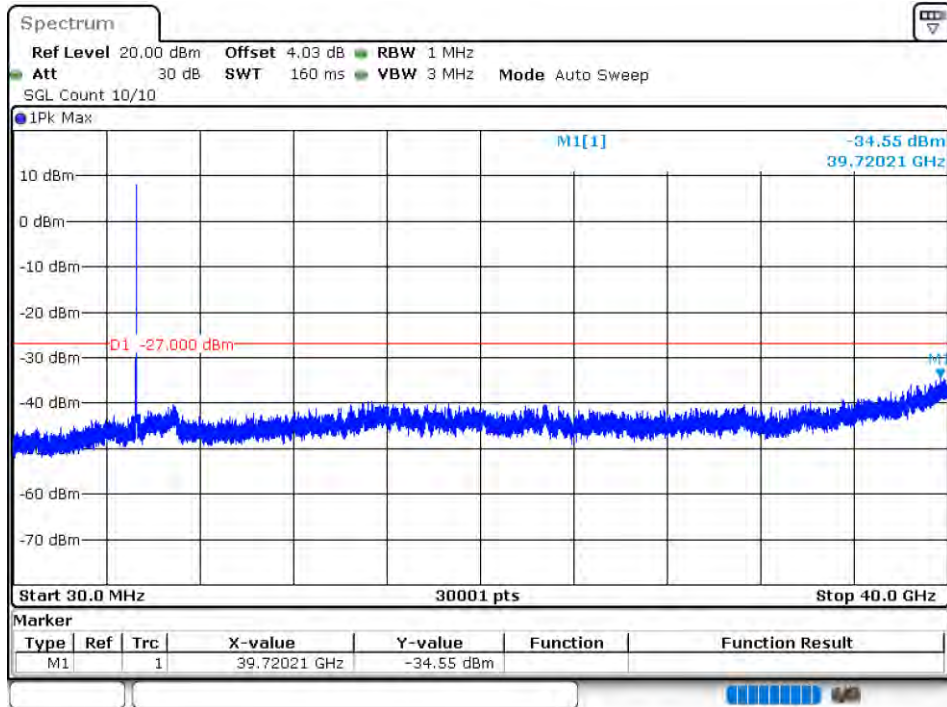
Tx. Spurious NVNT a 5320MHz Ant1 Emission



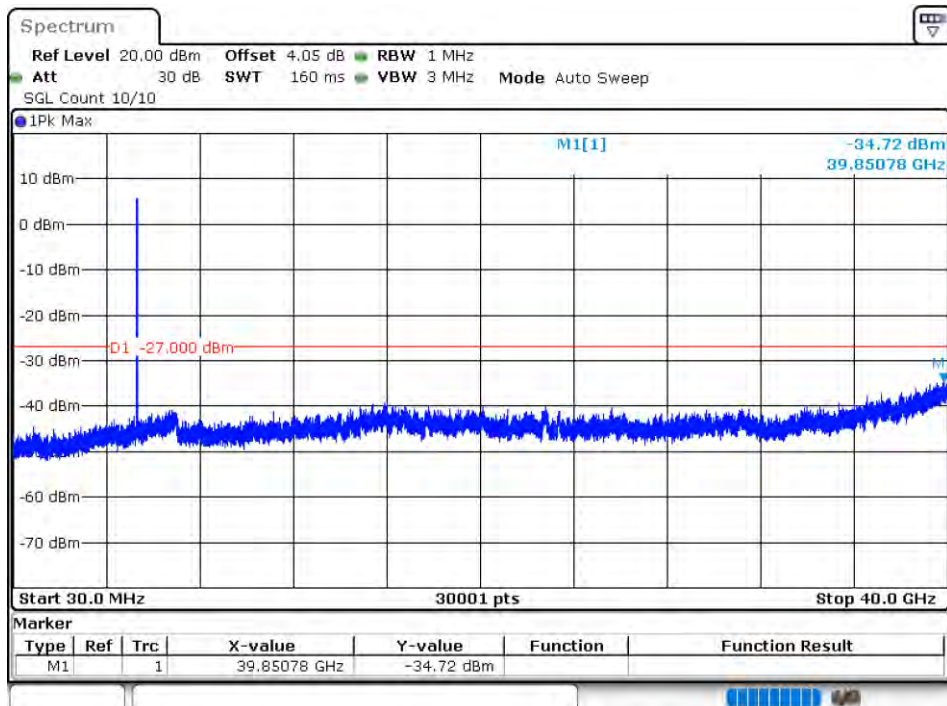
Tx. Spurious NVNT n20 5260MHz Ant1 Emission



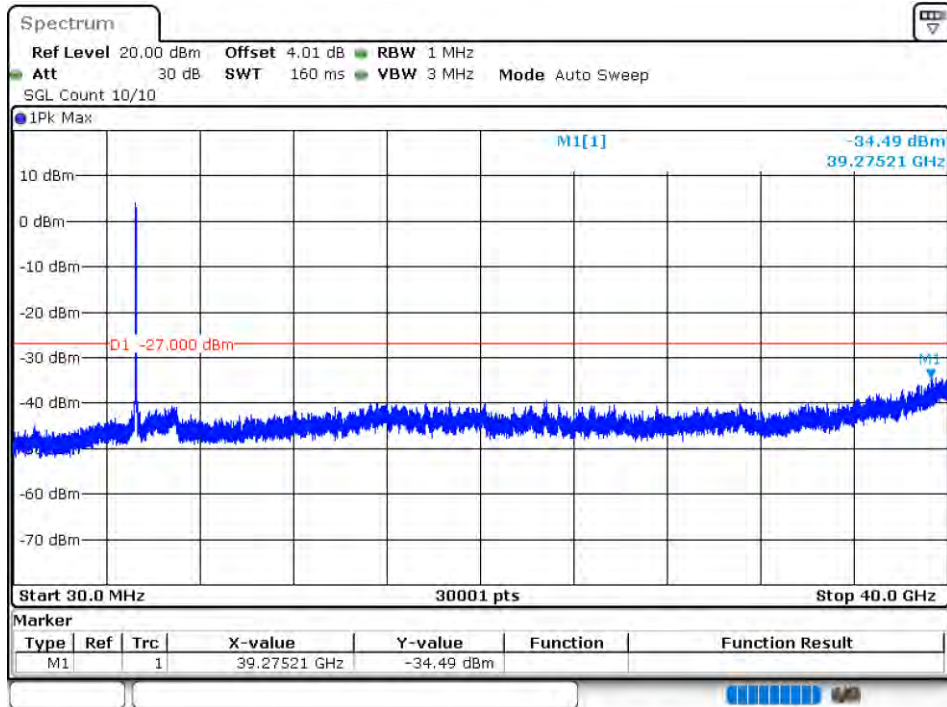
Tx. Spurious NVNT n20 5280MHz Ant1 Emission



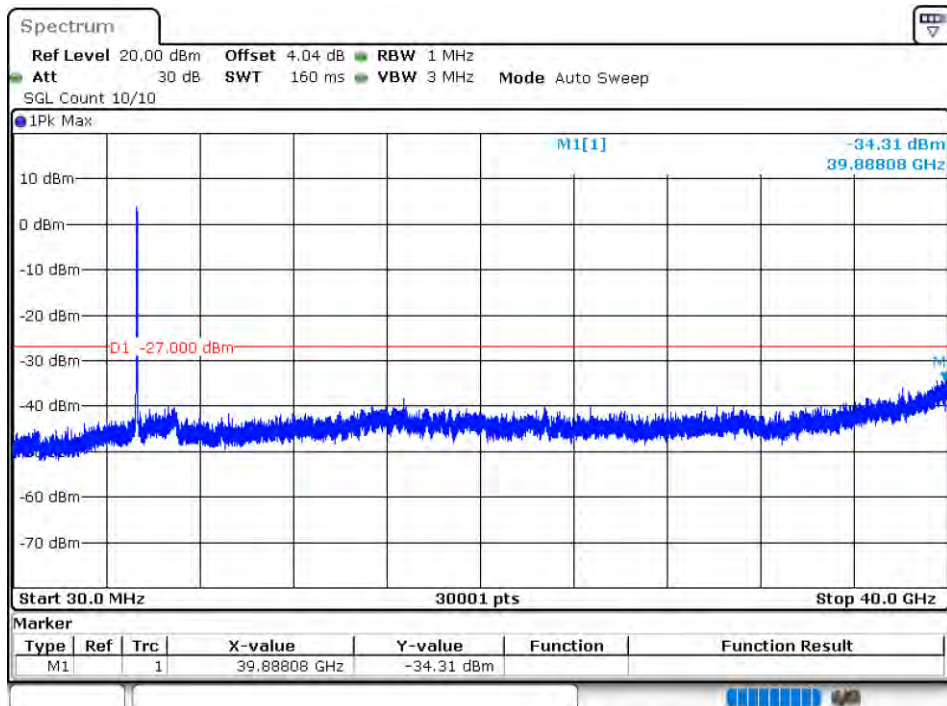
Tx. Spurious NVNT n20 5320MHz Ant1 Emission



Tx. Spurious NVNT n40 5270MHz Ant1 Emission



Tx. Spurious NVNT n40 5310MHz Ant1 Emission



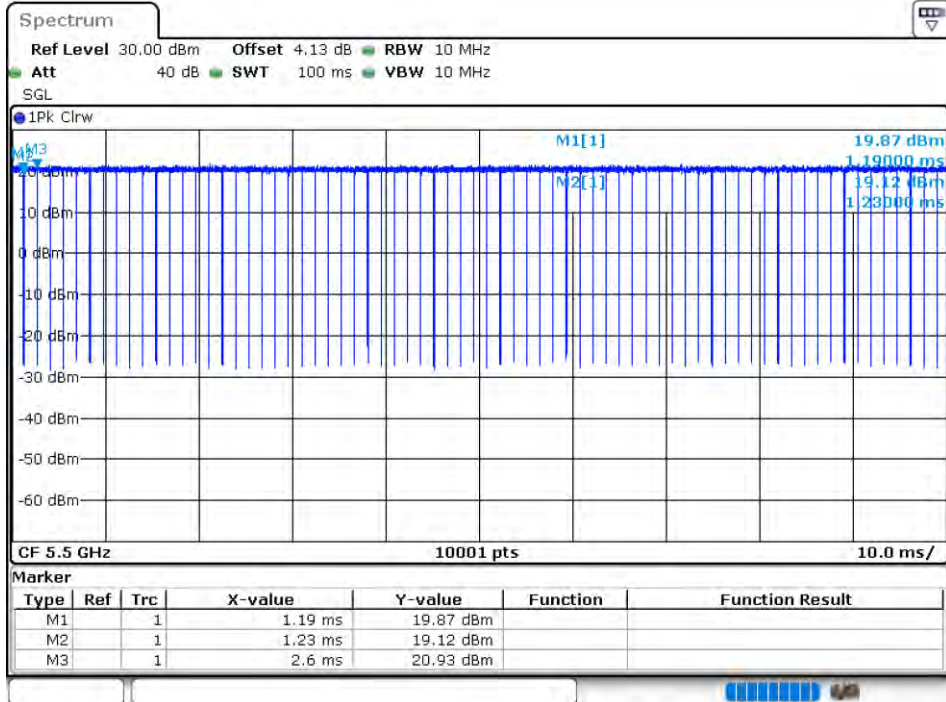
5.6G WIFI

Duty Cycle

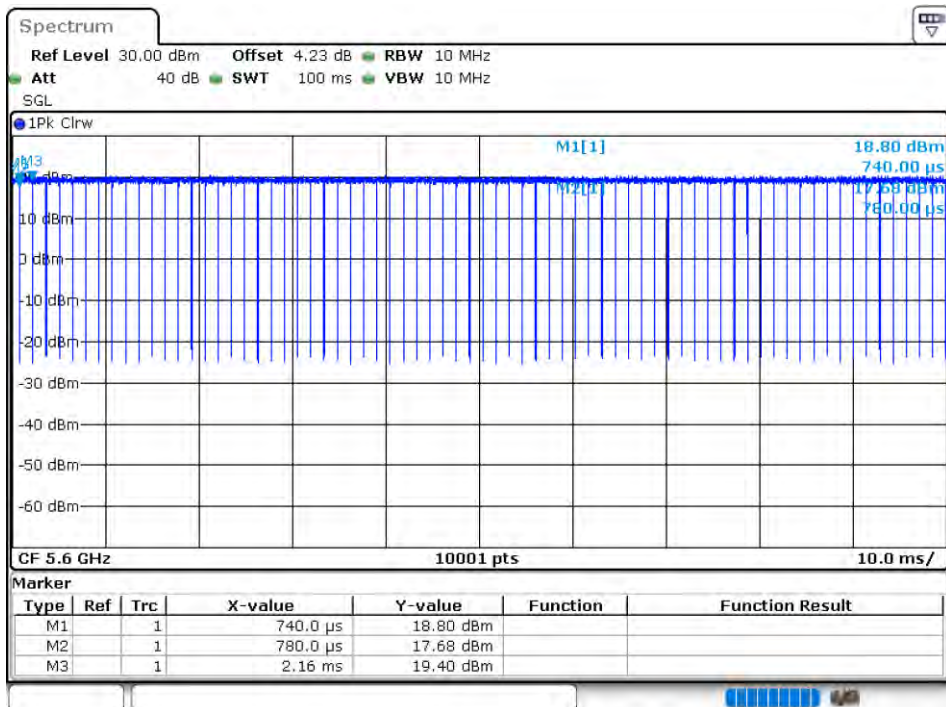
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	97.85	0.09	0.73
NVNT	a	5600	Ant1	97.83	0.1	0.72
NVNT	a	5700	Ant1	97.8	0.1	0.73
NVNT	n20	5500	Ant1	97.66	0.1	0.78
NVNT	n20	5600	Ant1	97.69	0.1	0.78
NVNT	n20	5700	Ant1	97.69	0.1	0.78
NVNT	n40	5510	Ant1	95.36	0.21	1.56
NVNT	n40	5590	Ant1	95.34	0.21	1.56
NVNT	n40	5670	Ant1	95.35	0.21	1.56

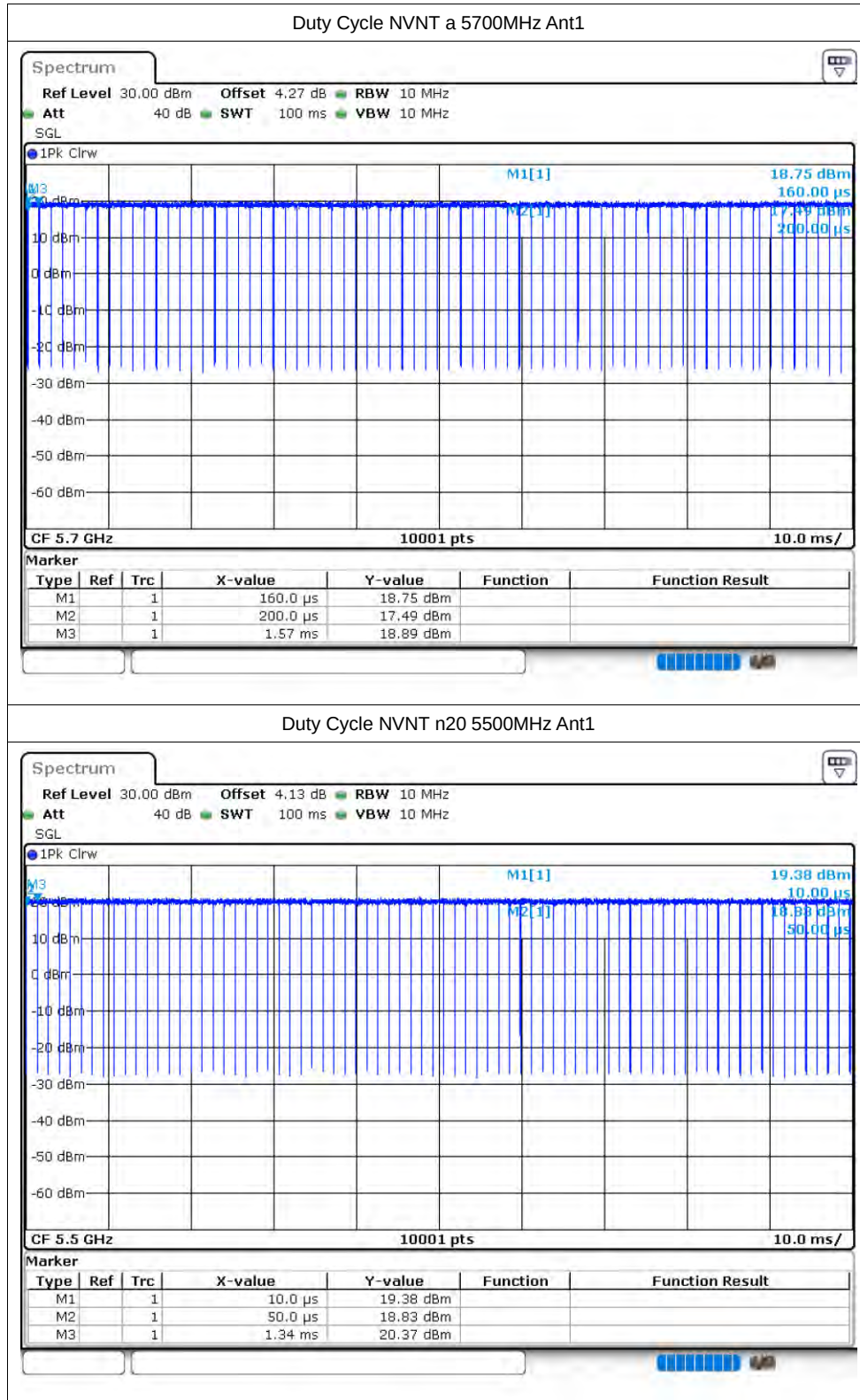
Test Graphs

Duty Cycle NVNT a 5500MHz Ant1

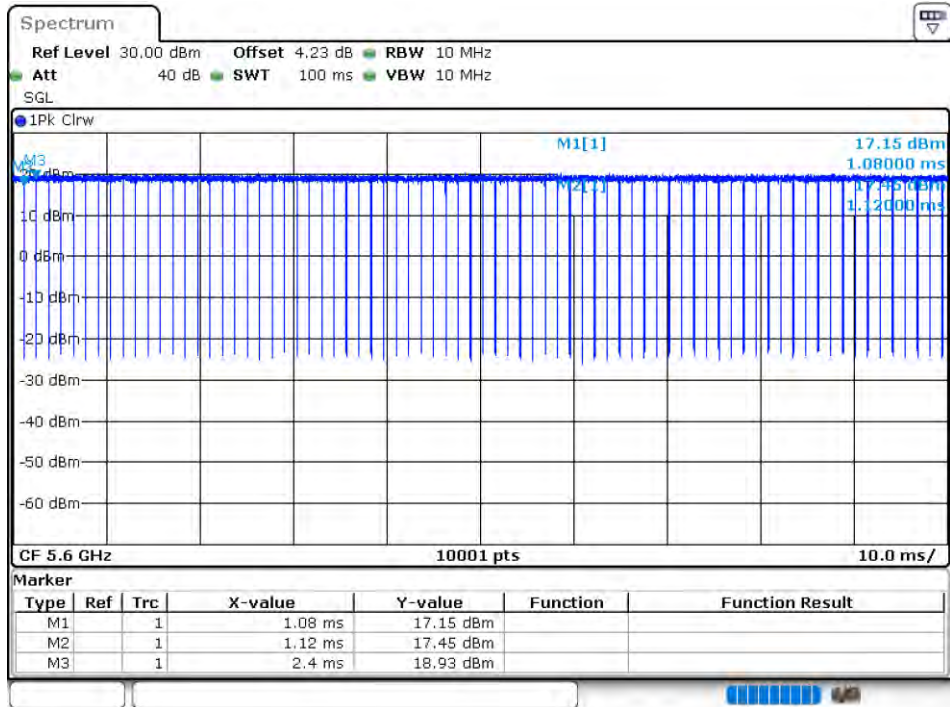


Duty Cycle NVNT a 5600MHz Ant1

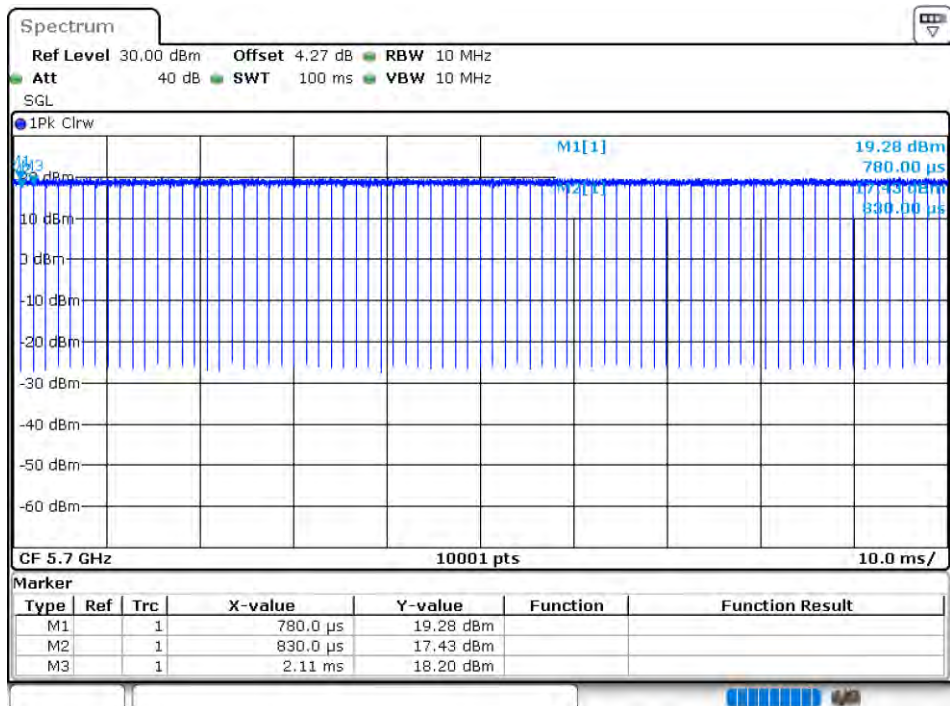




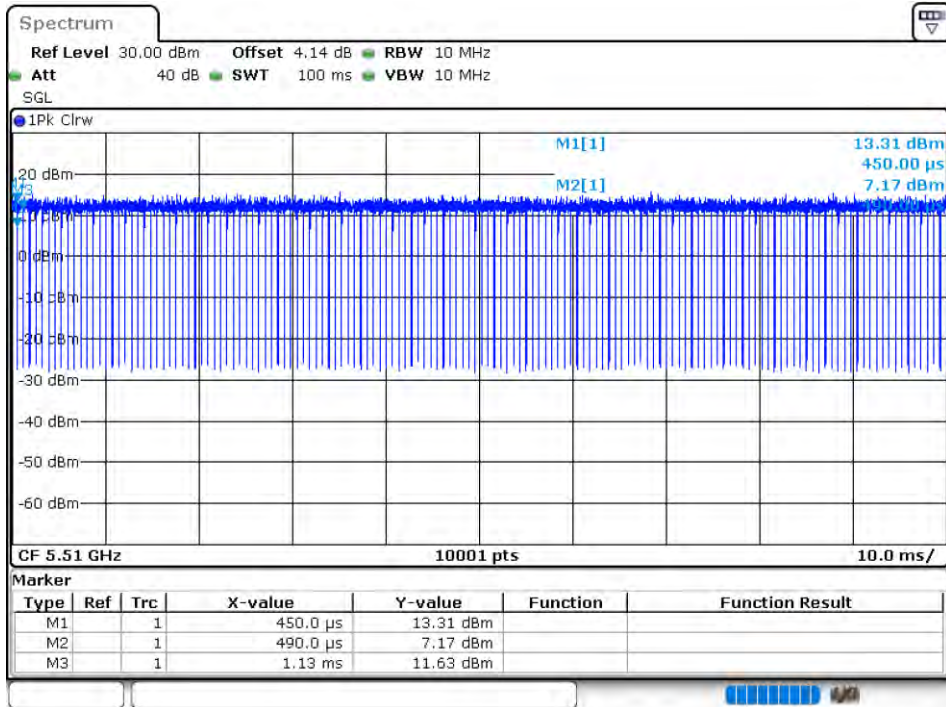
Duty Cycle NVNT n20 5600MHz Ant1



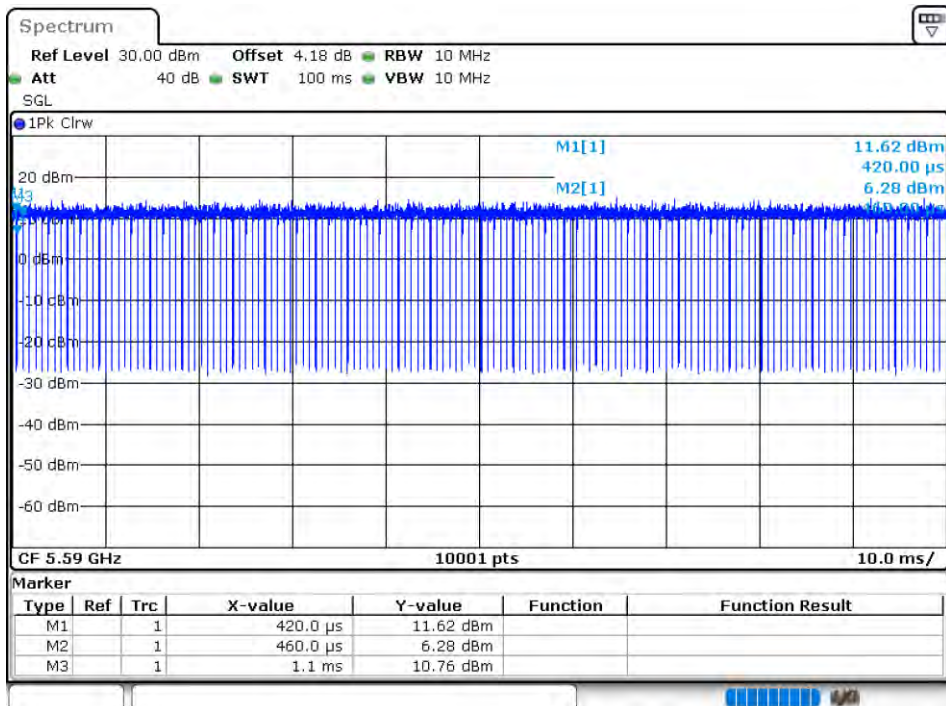
Duty Cycle NVNT n20 5700MHz Ant1

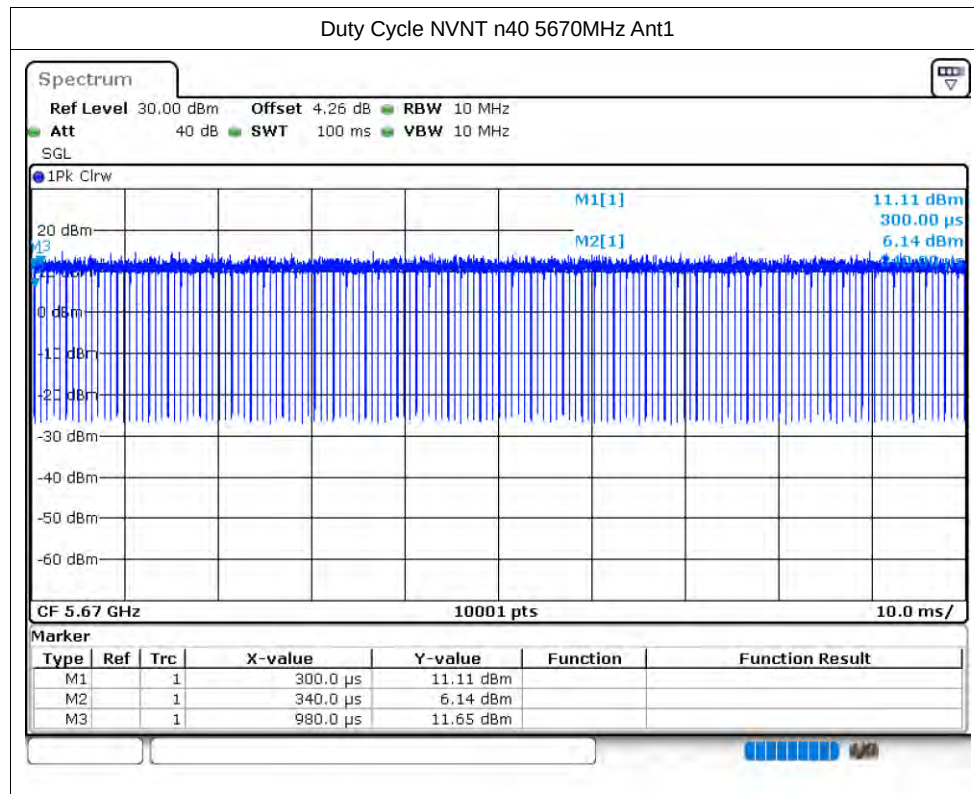


Duty Cycle NVNT n40 5510MHz Ant1



Duty Cycle NVNT n40 5590MHz Ant1





Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	12.83	23.73	Pass
NVNT	a	5600	Ant1	11.28	23.70	Pass
NVNT	a	5700	Ant1	12.09	23.75	Pass
NVNT	n20	5500	Ant1	12.14	23.83	Pass
NVNT	n20	5600	Ant1	10.81	23.85	Pass
NVNT	n20	5700	Ant1	11.86	23.84	Pass
NVNT	n40	5510	Ant1	10.77	24	Pass
NVNT	n40	5590	Ant1	10.59	24	Pass
NVNT	n40	5670	Ant1	10.08	24	Pass

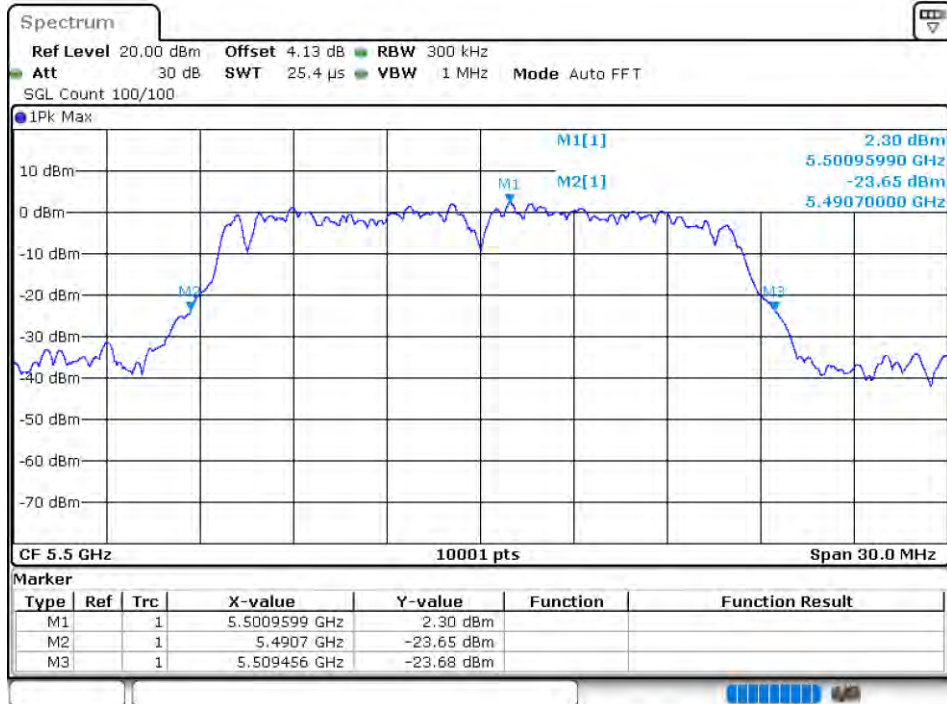
Note: The average power contains duty factor

-26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	18.756	Pass
NVNT	a	5600	Ant1	18.606	Pass
NVNT	a	5700	Ant1	18.831	Pass
NVNT	n20	5500	Ant1	19.167	Pass
NVNT	n20	5600	Ant1	19.269	Pass
NVNT	n20	5700	Ant1	19.251	Pass
NVNT	n40	5510	Ant1	39.498	Pass
NVNT	n40	5590	Ant1	39.69	Pass
NVNT	n40	5670	Ant1	39.648	Pass

Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5600MHz Ant1

