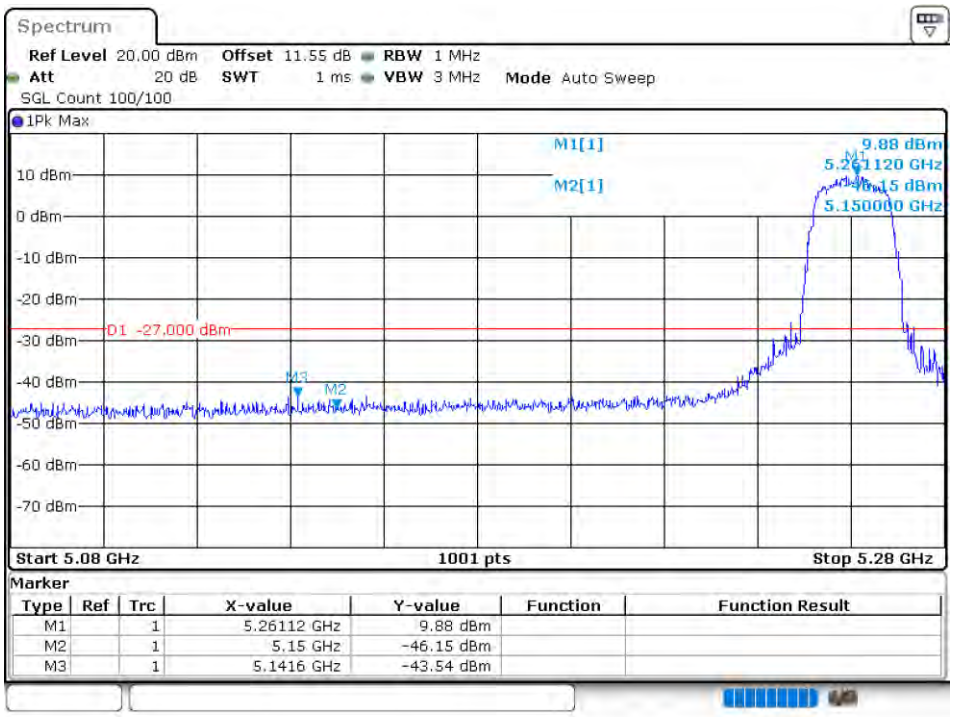
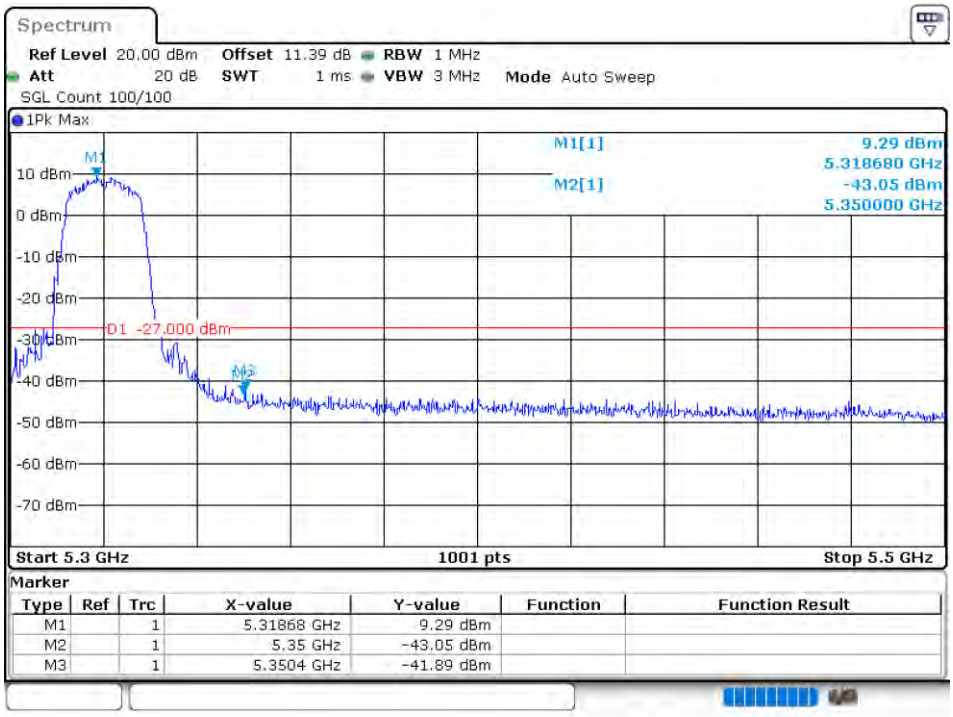
Test Graphs

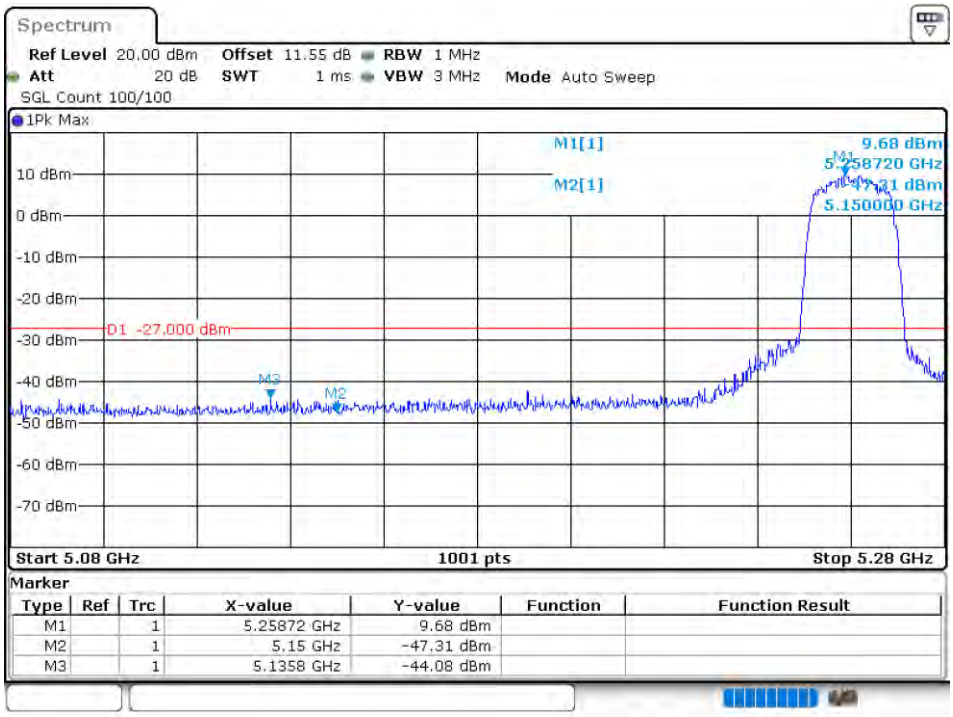
Band Edge NVNT a 5260MHz Low Ant1



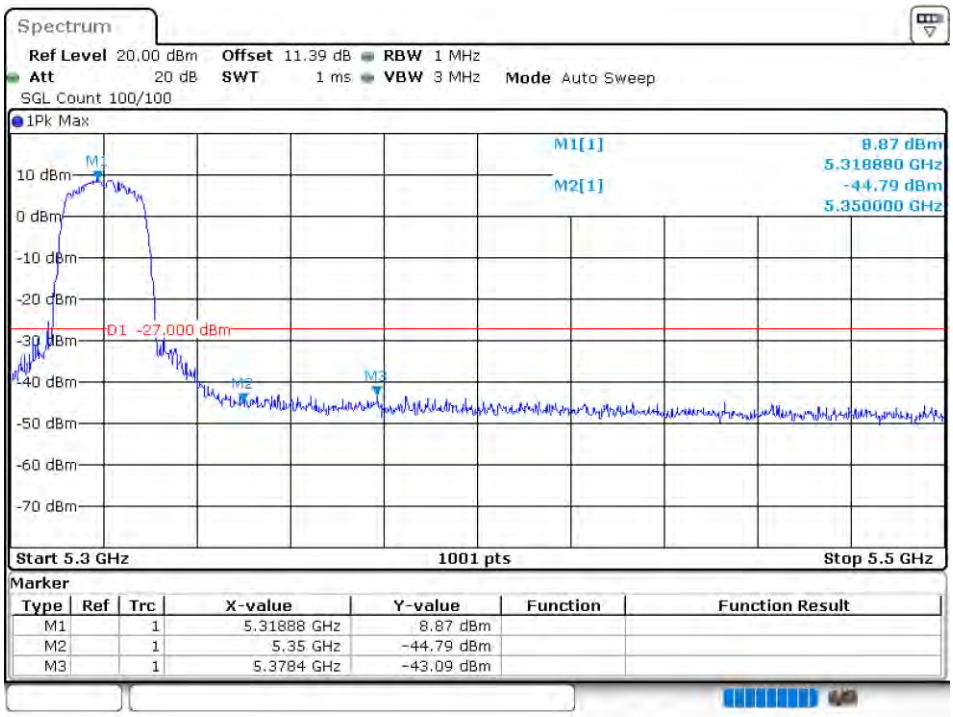
Band Edge NVNT a 5320MHz High Ant1



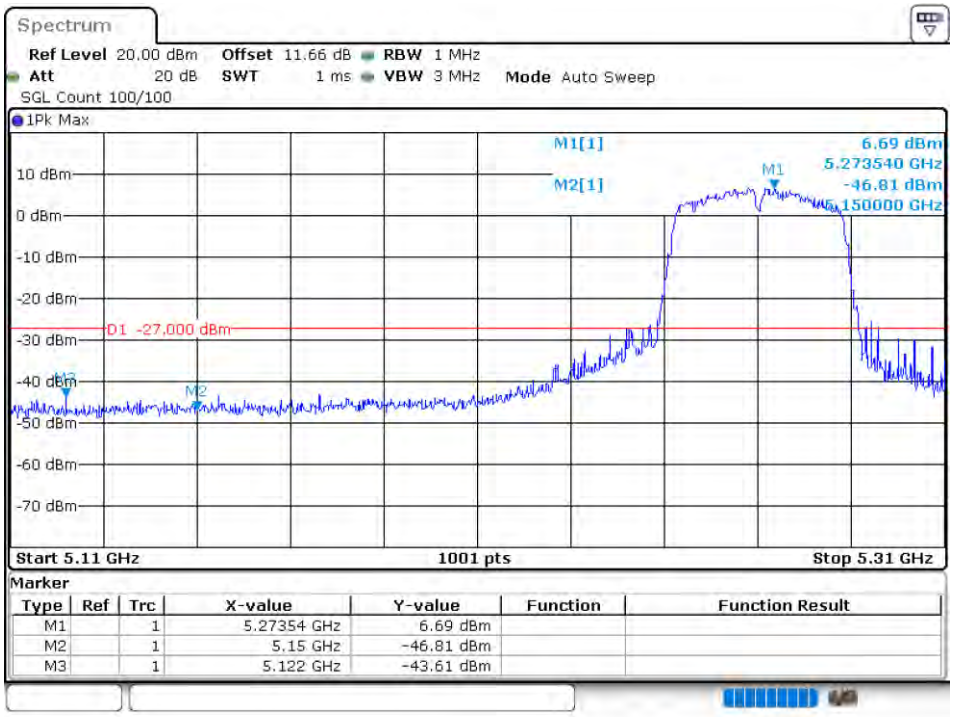
Band Edge NVNT n20 5260MHz Low Ant1



Band Edge NVNT n20 5320MHz High Ant1



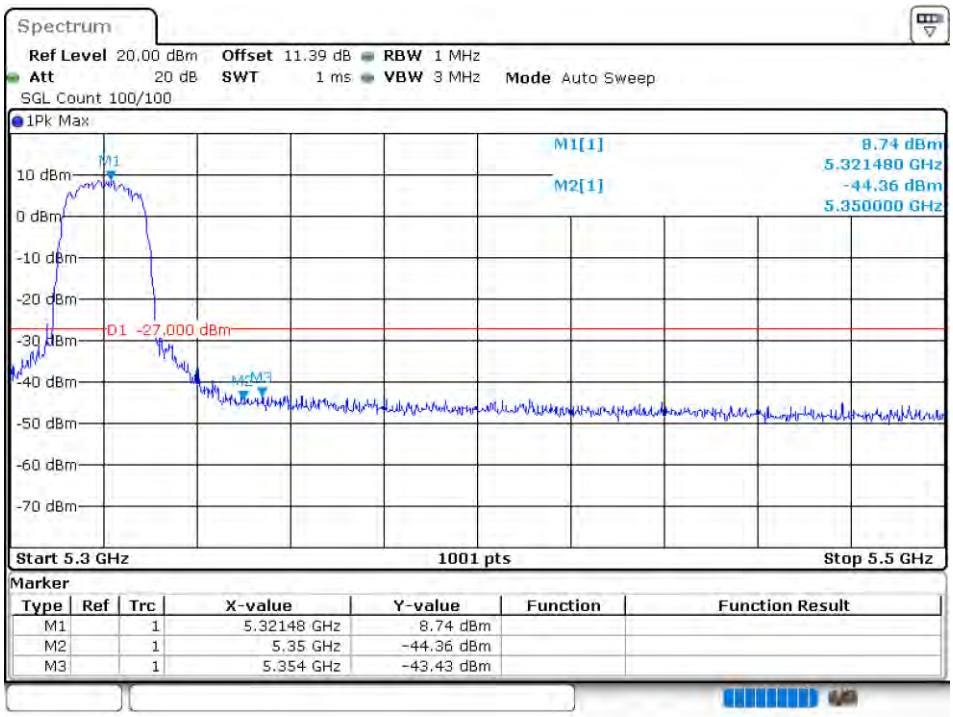
Band Edge NVNT n40 5270MHz Low Ant1



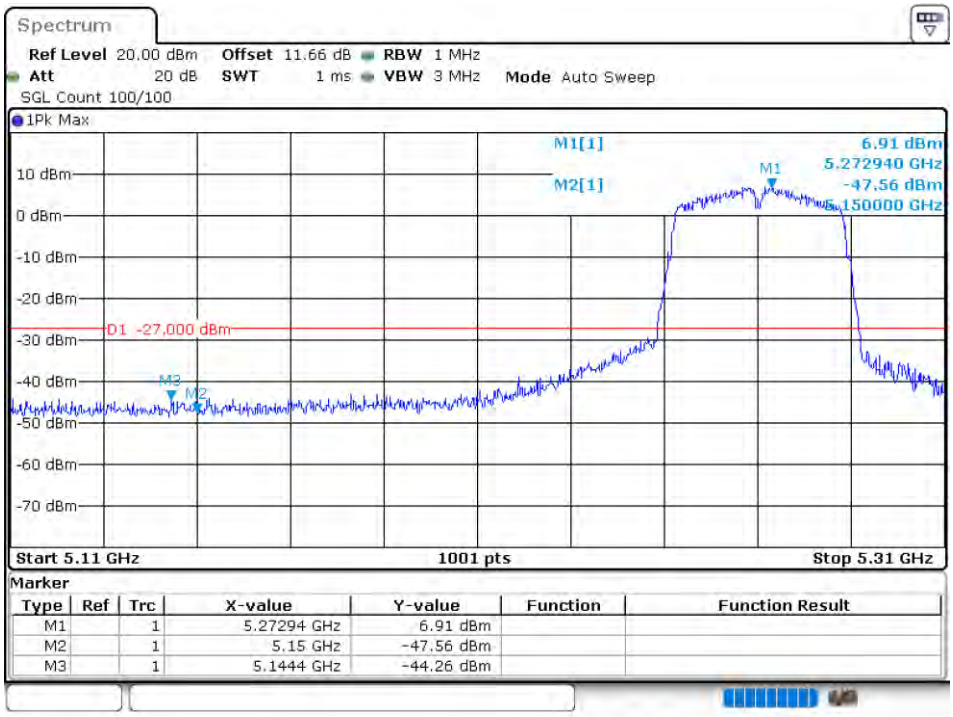
Band Edge NVNT n40 5310MHz High Ant1

Band Edge NVNT ac20 5260MHz Low Ant1

Band Edge NVNT ac20 5320MHz High Ant1

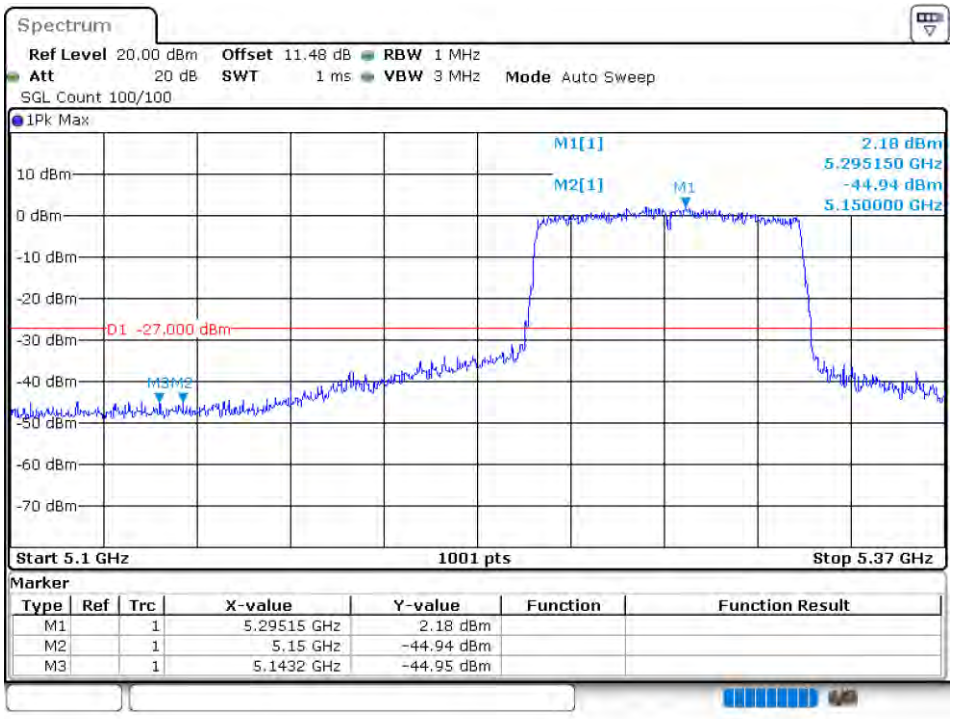


Band Edge NVNT ac40 5270MHz Low Ant1



Band Edge NVNT ac40 5310MHz High Ant1

Band Edge NVNT ac80 5290MHz Low Ant1



Marker

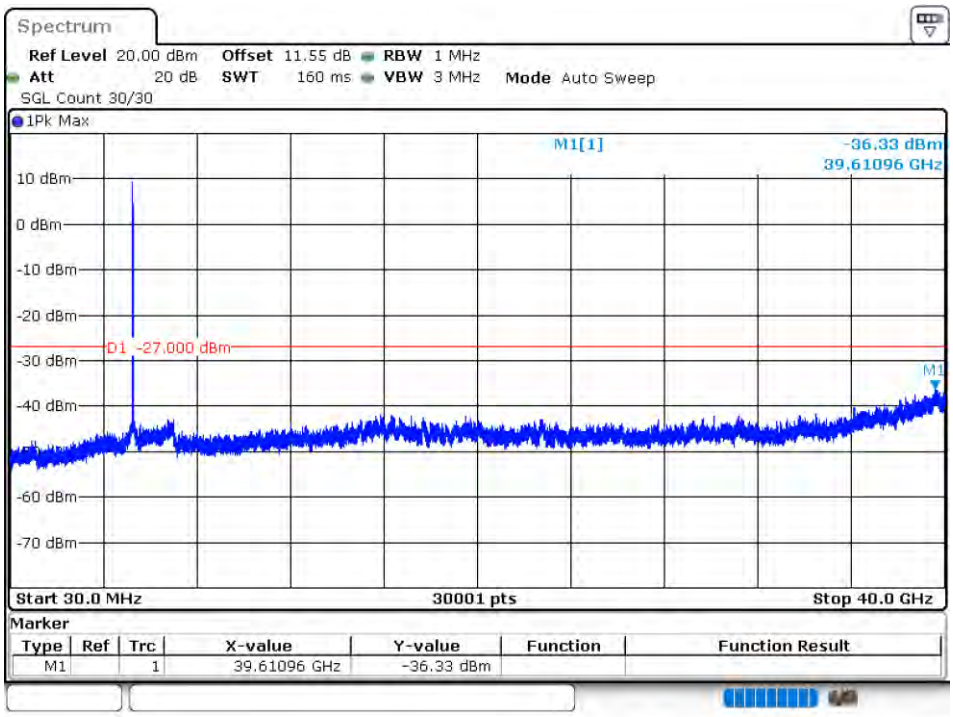
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.29515 GHz	2.18 dBm		
M2		1	5.15 GHz	-44.94 dBm		
M3		1	5.1432 GHz	-44.95 dBm		

Conducted RF Spurious Emission

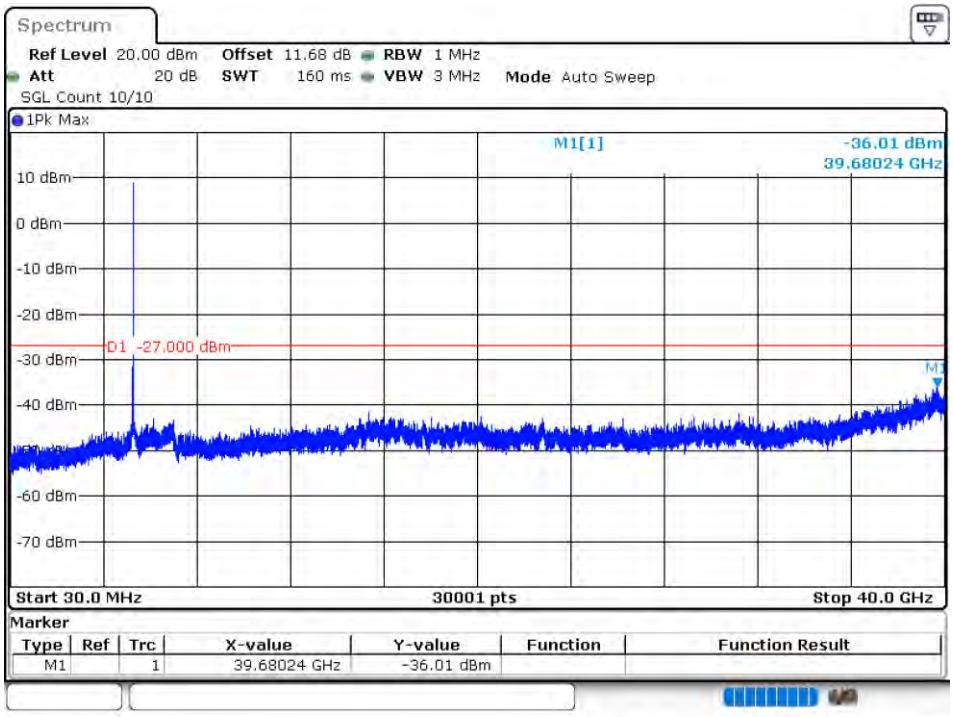
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5260	Ant1	-36.33	-27	Pass
NVNT	a	5280	Ant1	-36.01	-27	Pass
NVNT	a	5320	Ant1	-36.69	-27	Pass
NVNT	n20	5260	Ant1	-36.02	-27	Pass
NVNT	n20	5280	Ant1	-36.25	-27	Pass
NVNT	n20	5320	Ant1	-37.06	-27	Pass
NVNT	n40	5270	Ant1	-36.35	-27	Pass
NVNT	n40	5310	Ant1	-36.16	-27	Pass
NVNT	ac20	5260	Ant1	-36.49	-27	Pass
NVNT	ac20	5280	Ant1	-36.31	-27	Pass
NVNT	ac20	5320	Ant1	-36.83	-27	Pass
NVNT	ac40	5270	Ant1	-35.75	-27	Pass
NVNT	ac40	5310	Ant1	-36.78	-27	Pass
NVNT	ac80	5290	Ant1	-36.73	-27	Pass

Test Graphs

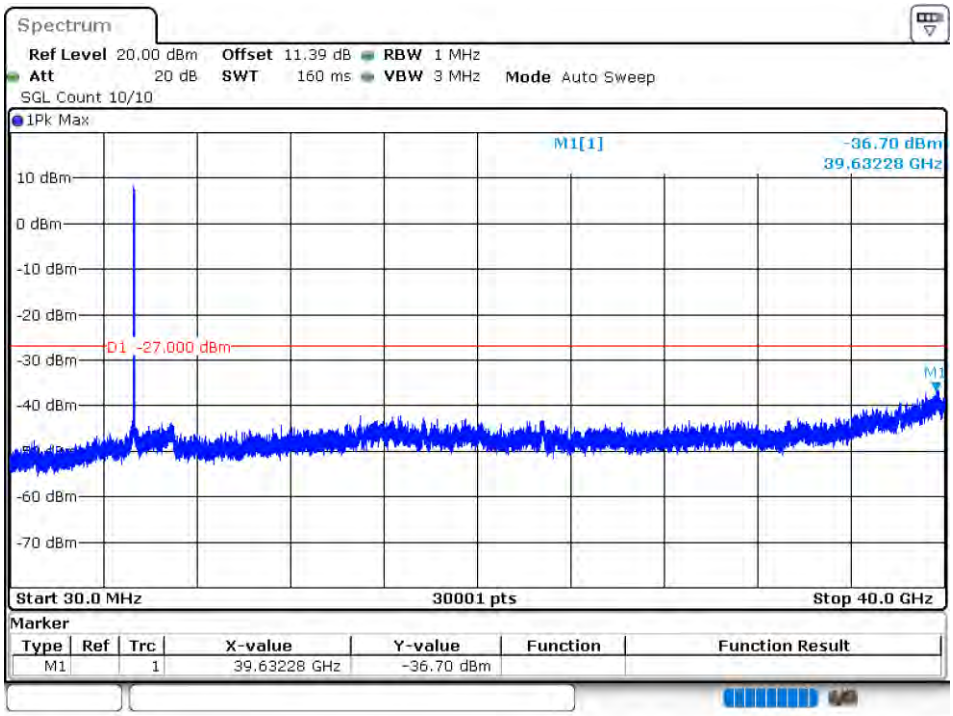
Tx. Spurious NVNT a 5260MHz Ant1 Emission



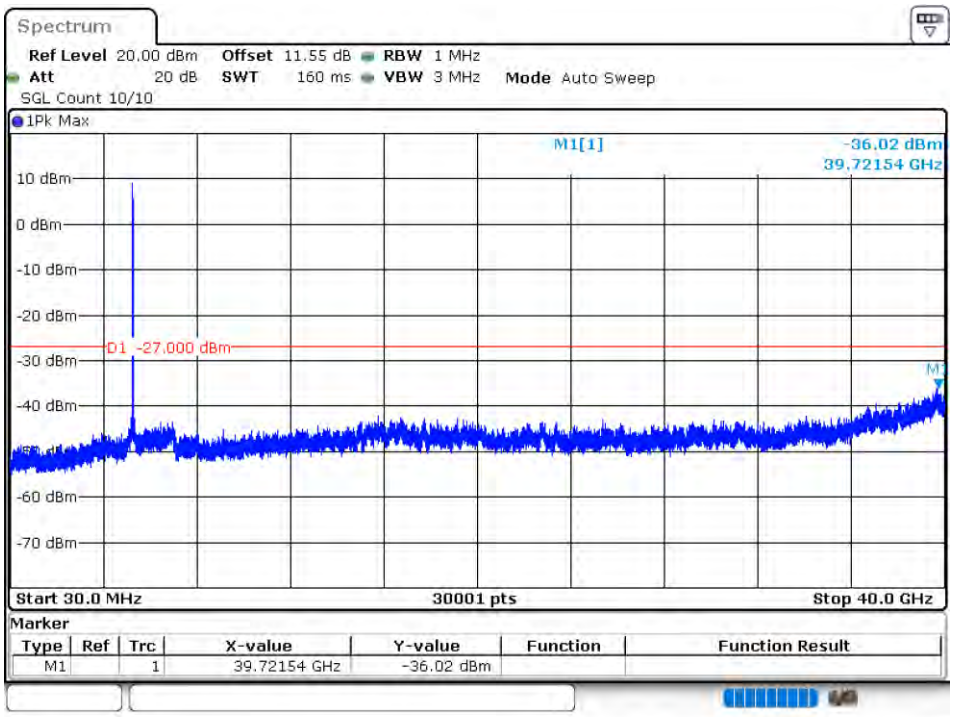
Tx. Spurious NVNT a 5280MHz Ant1 Emission



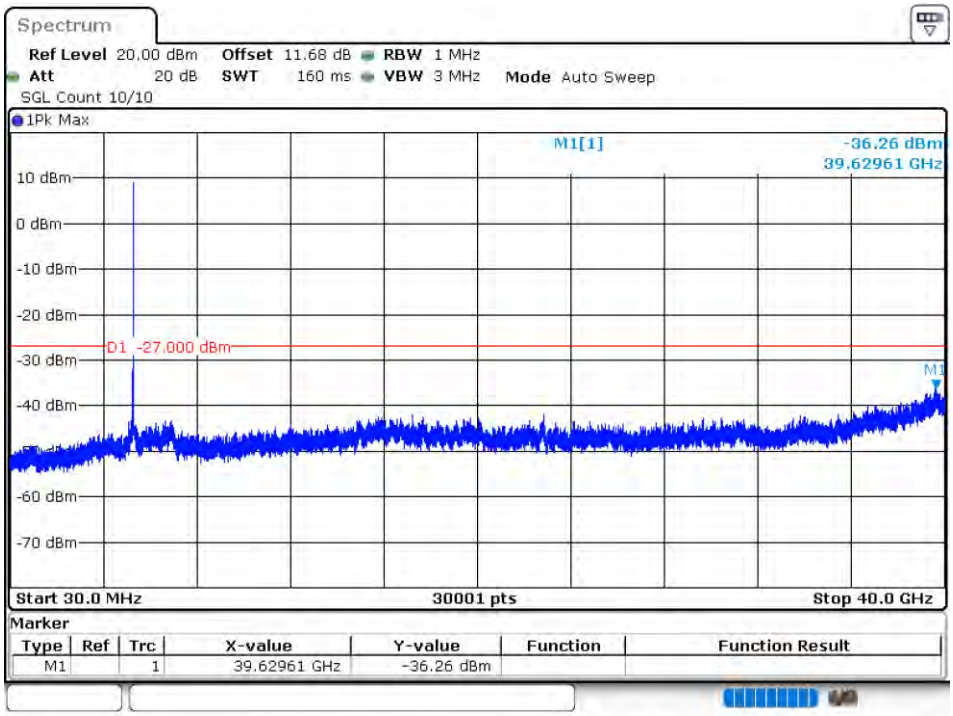
Tx. Spurious NVNT a 5320MHz Ant1 Emission



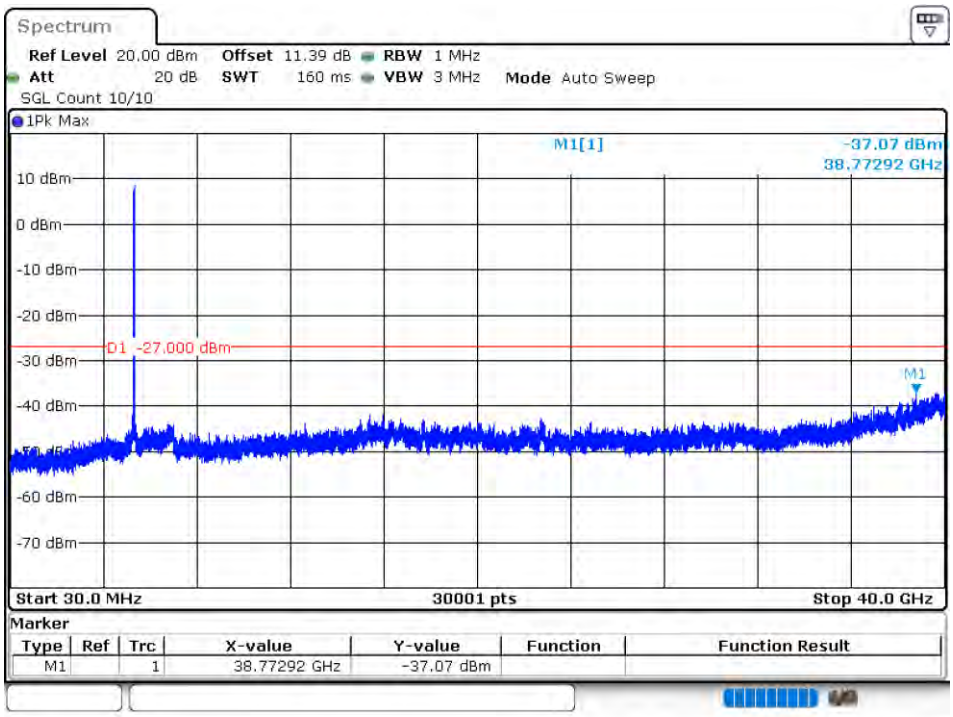
Tx. Spurious NVNT n20 5260MHz Ant1 Emission



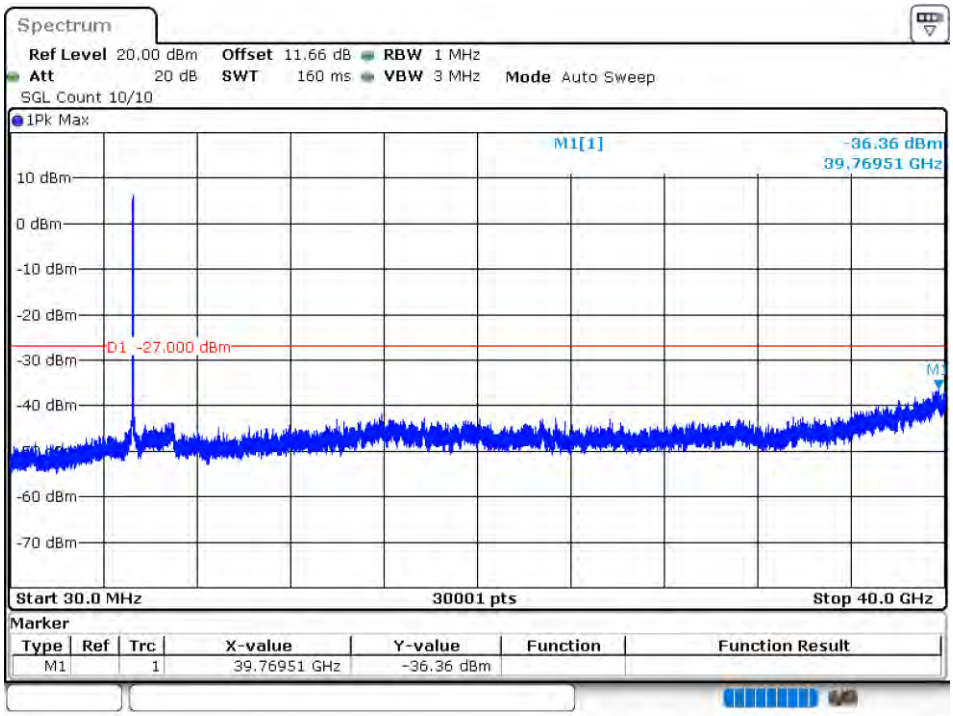
Tx. Spurious NVNT n20 5280MHz Ant1 Emission



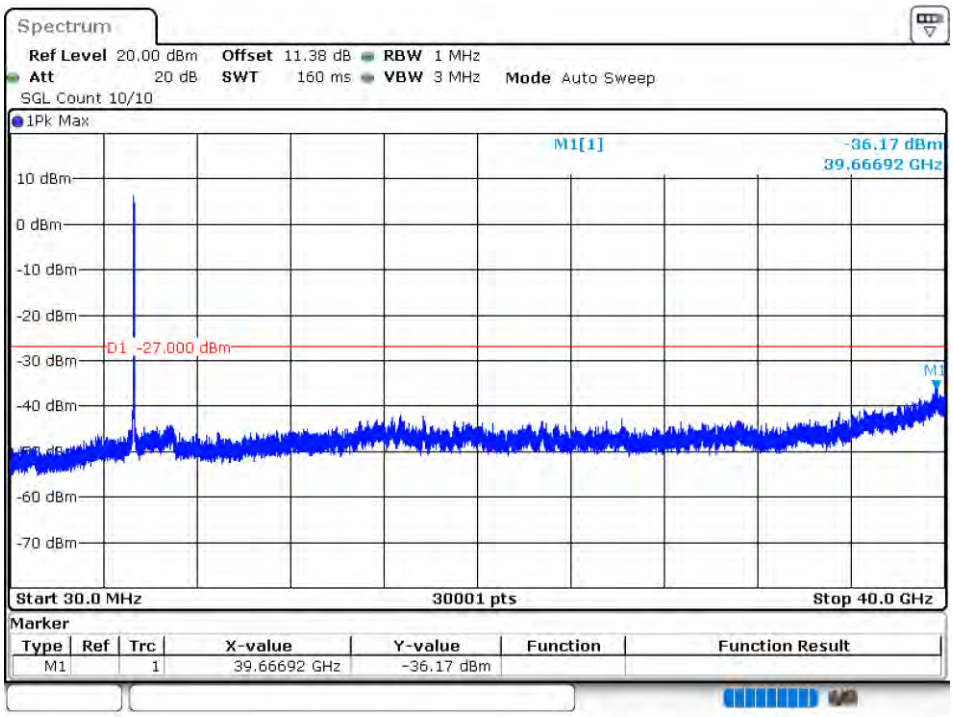
Tx. Spurious NVNT n20 5320MHz Ant1 Emission



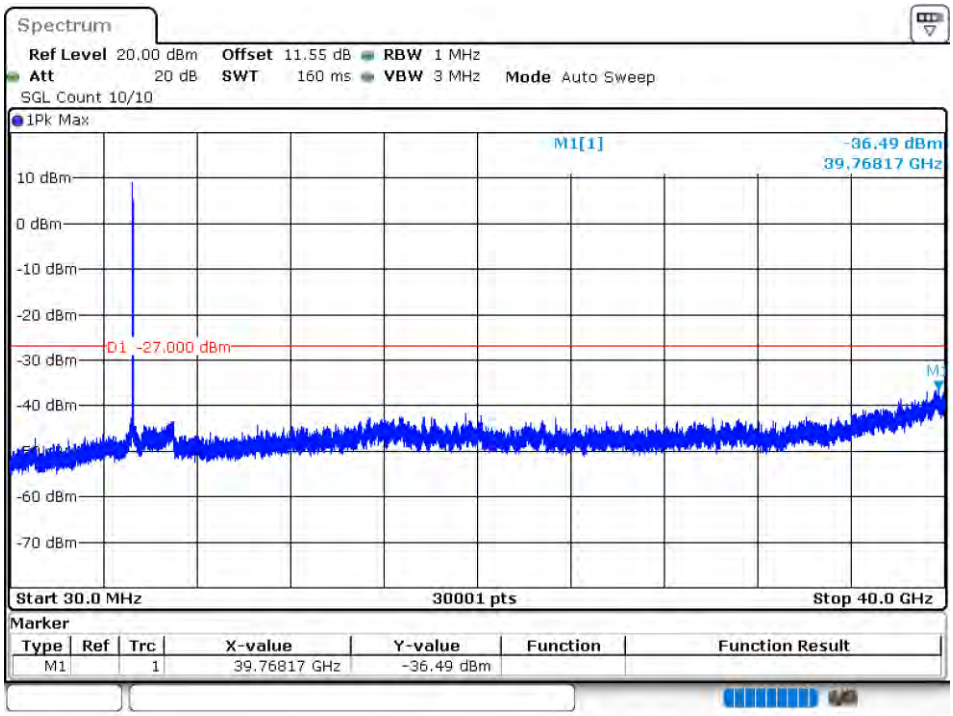
Tx. Spurious NVNT n40 5270MHz Ant1 Emission



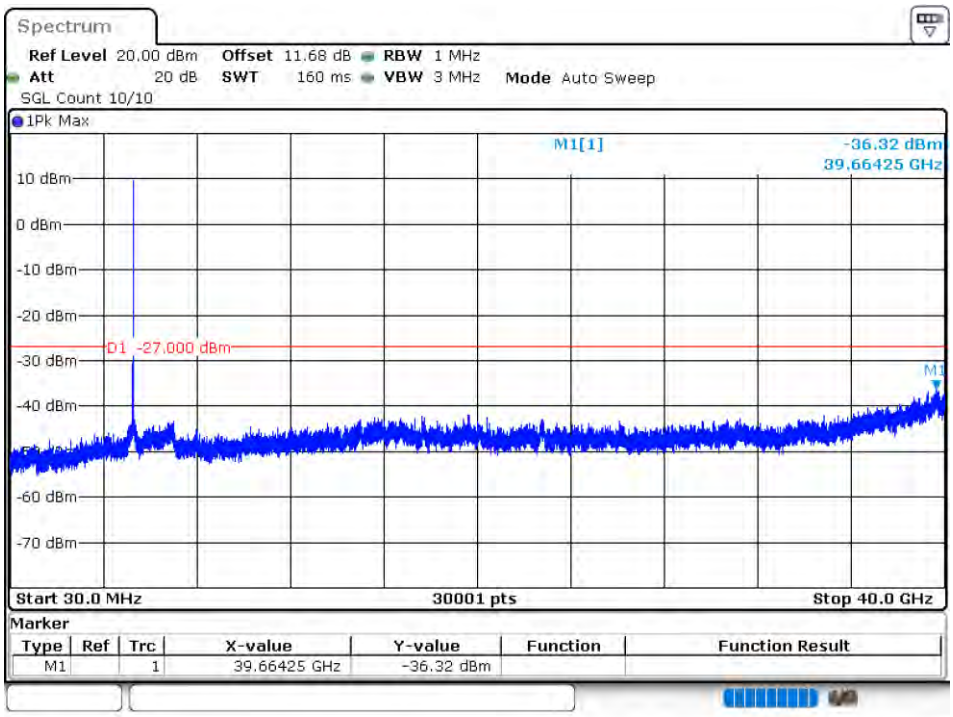
Tx. Spurious NVNT n40 5310MHz Ant1 Emission



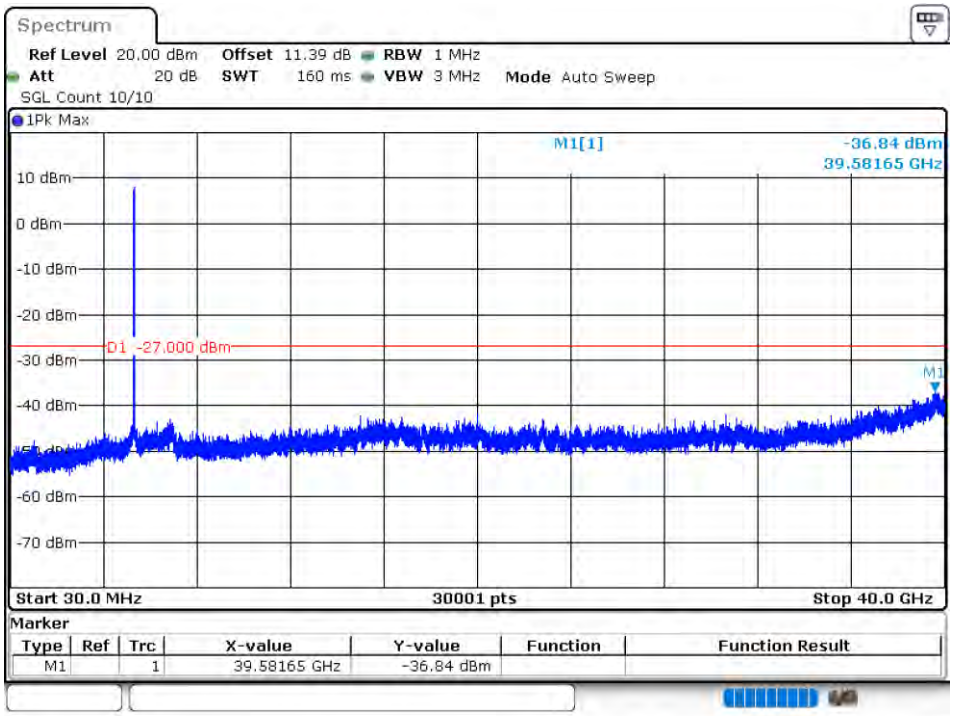
Tx. Spurious NVNT ac20 5260MHz Ant1 Emission



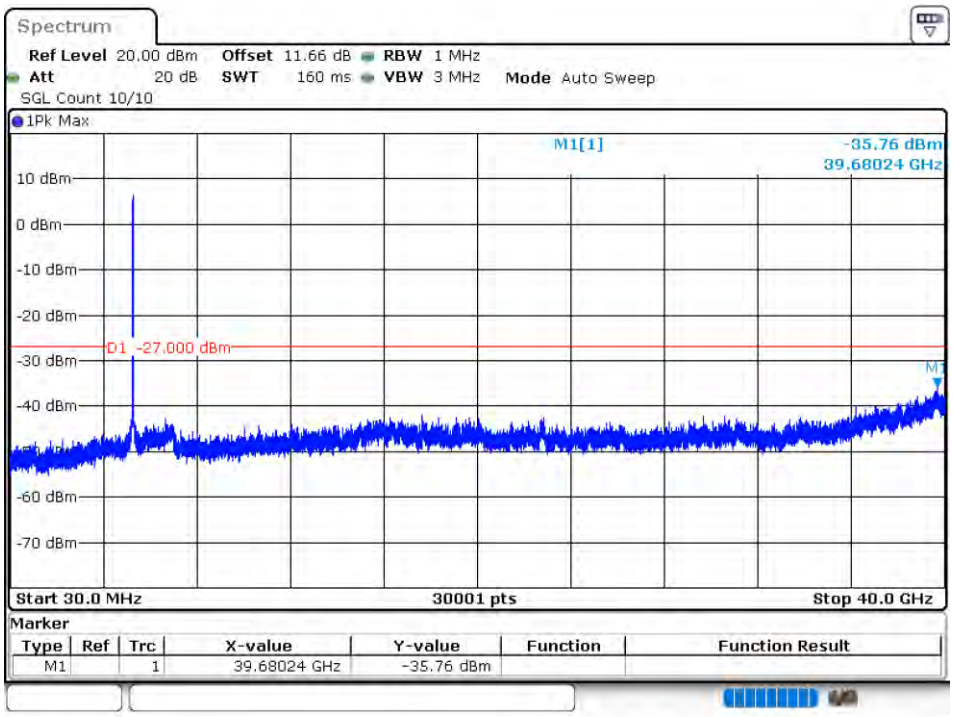
Tx. Spurious NVNT ac20 5280MHz Ant1 Emission



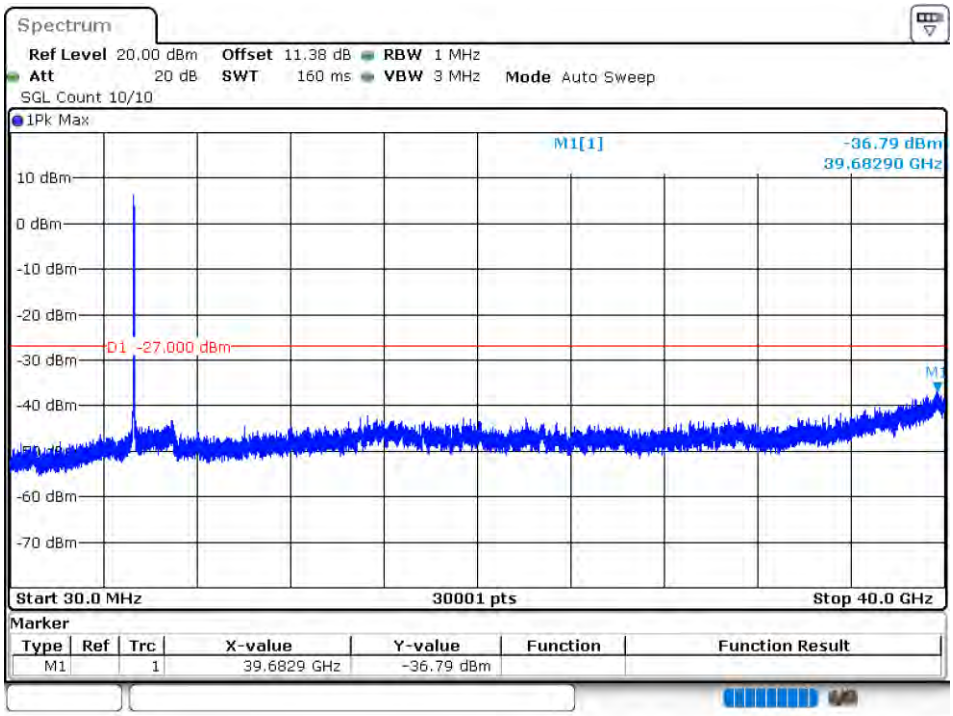
Tx. Spurious NVNT ac20 5320MHz Ant1 Emission



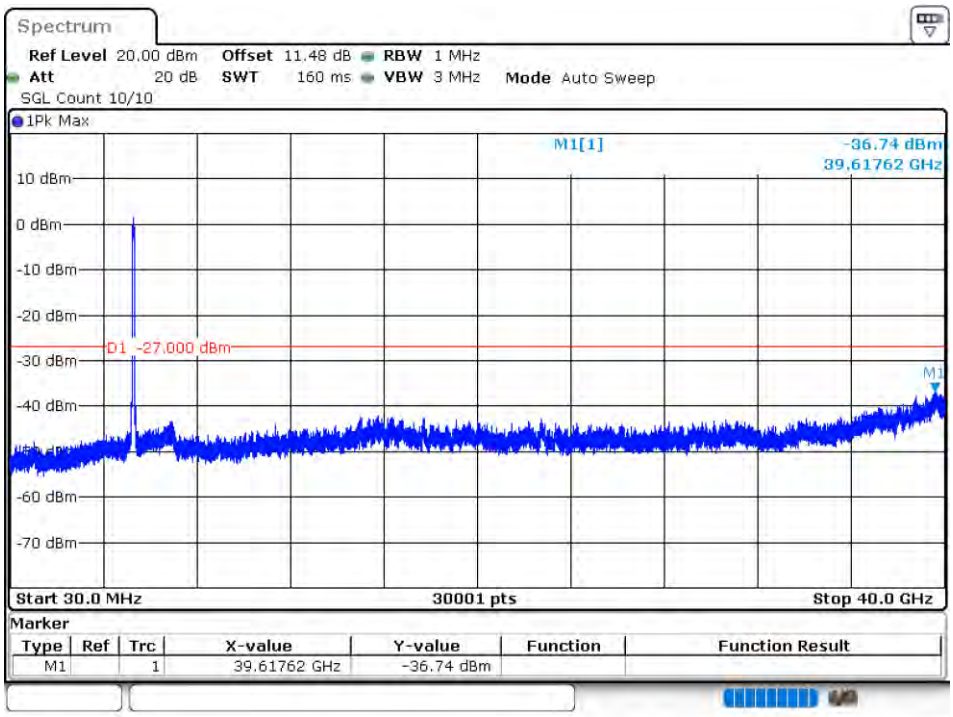
Tx. Spurious NVNT ac40 5270MHz Ant1 Emission



Tx. Spurious NVNT ac40 5310MHz Ant1 Emission



Tx. Spurious NVNT ac80 5290MHz Ant1 Emission



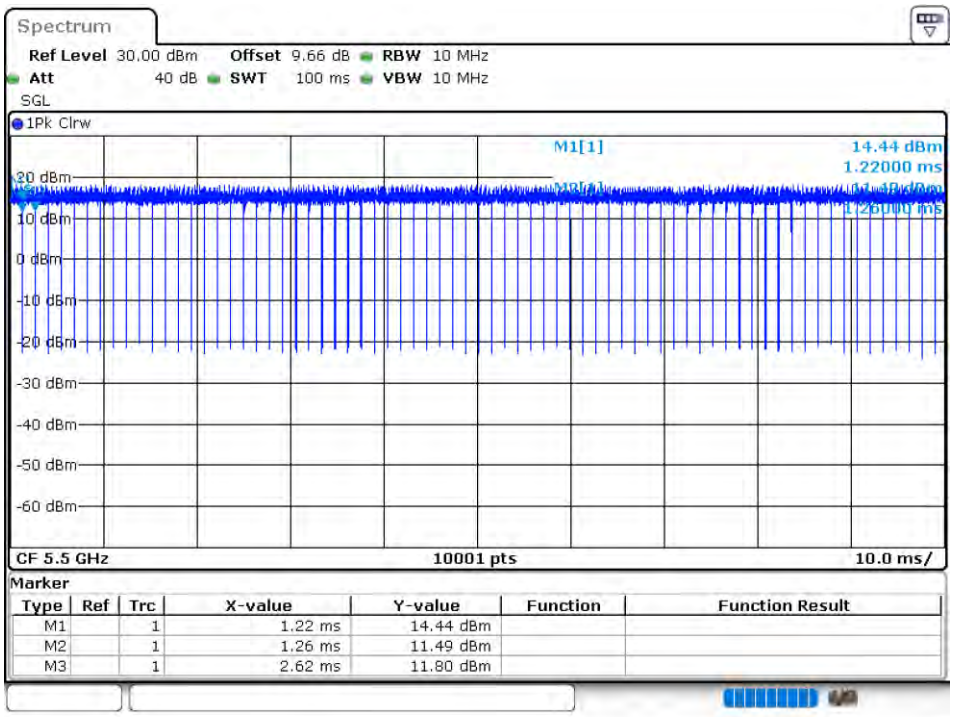
5.6G WIFI

Duty Cycle

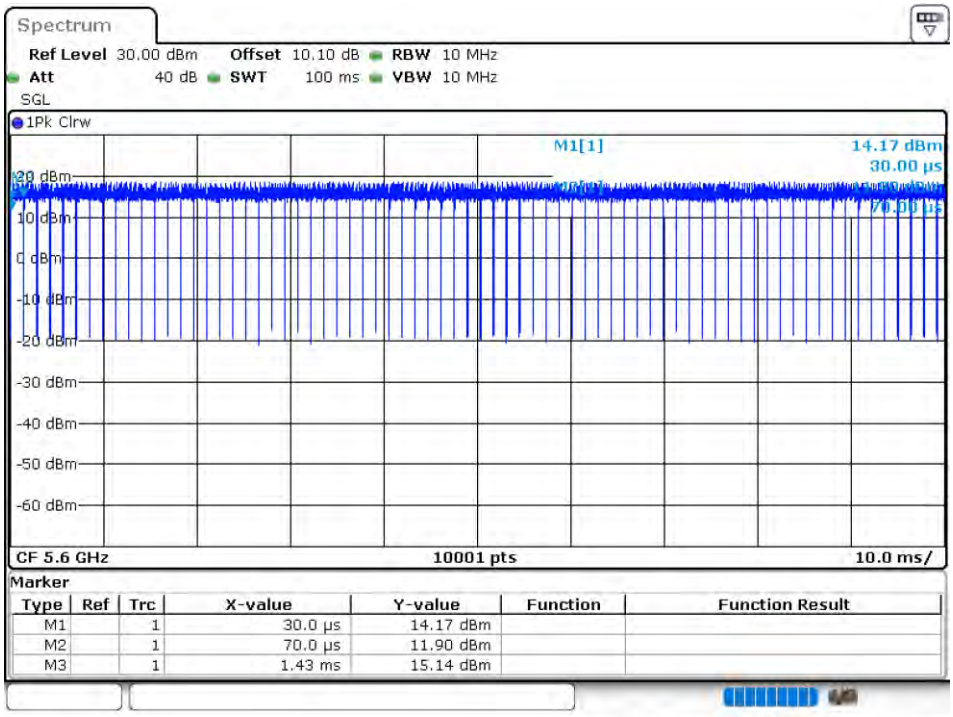
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	98.13	0.08	0.74
NVNT	a	5600	Ant1	98.1	0.08	0.74
NVNT	a	5700	Ant1	98.1	0.08	0.74
NVNT	n20	5500	Ant1	97.97	0.09	0.79
NVNT	n20	5600	Ant1	97.97	0.09	0.79
NVNT	n20	5700	Ant1	97.98	0.09	0.79
NVNT	n40	5510	Ant1	96.14	0.17	1.59
NVNT	n40	5590	Ant1	96.13	0.17	1.59
NVNT	n40	5670	Ant1	96.13	0.17	1.59
NVNT	ac20	5500	Ant1	98.01	0.09	0.78
NVNT	ac20	5600	Ant1	98.01	0.09	0.78
NVNT	ac20	5700	Ant1	98	0.09	0.78
NVNT	ac40	5510	Ant1	96.19	0.17	1.56
NVNT	ac40	5590	Ant1	96.19	0.17	1.56
NVNT	ac40	5670	Ant1	96.19	0.17	1.56
NVNT	ac80	5530	Ant1	92.7	0.33	3.23
NVNT	ac80	5610	Ant1	92.71	0.33	3.23

Test Graphs

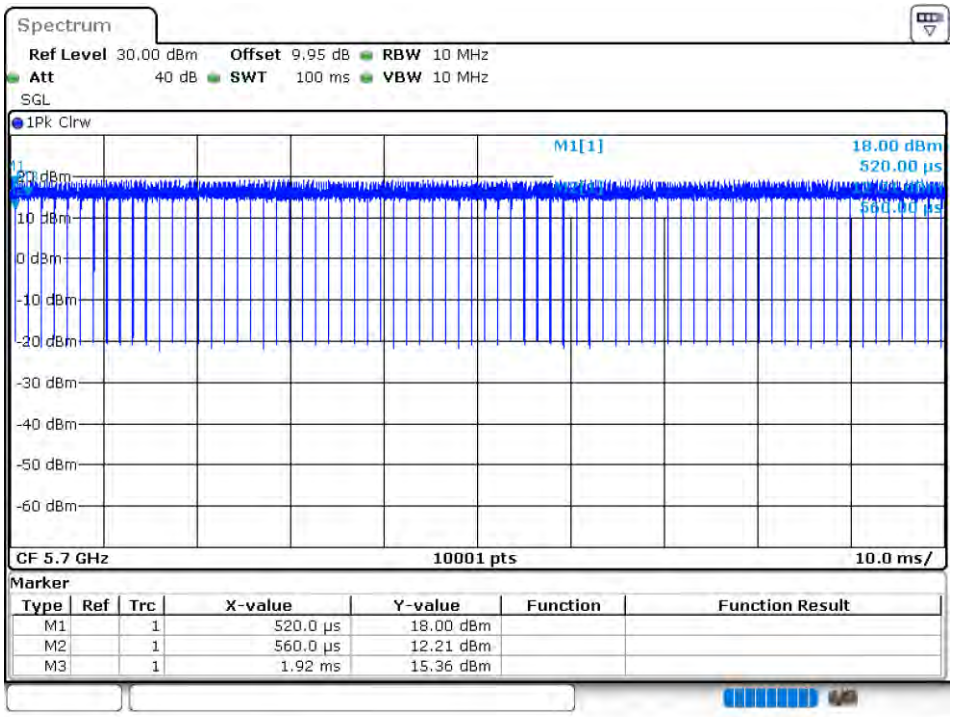
Duty Cycle NVNT a 5500MHz Ant1



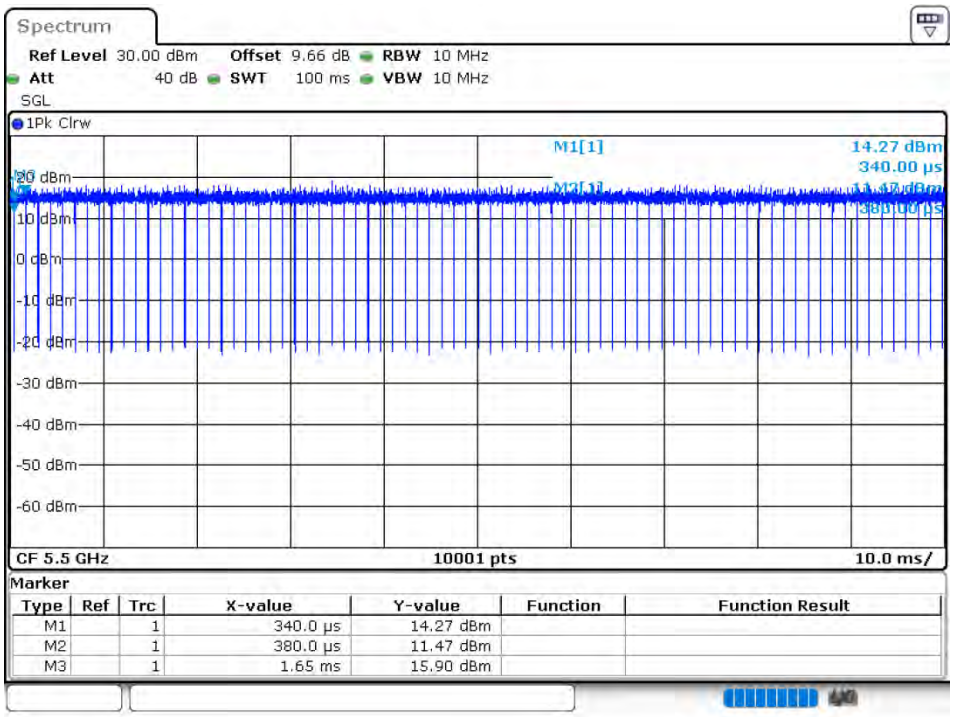
Duty Cycle NVNT a 5600MHz Ant1



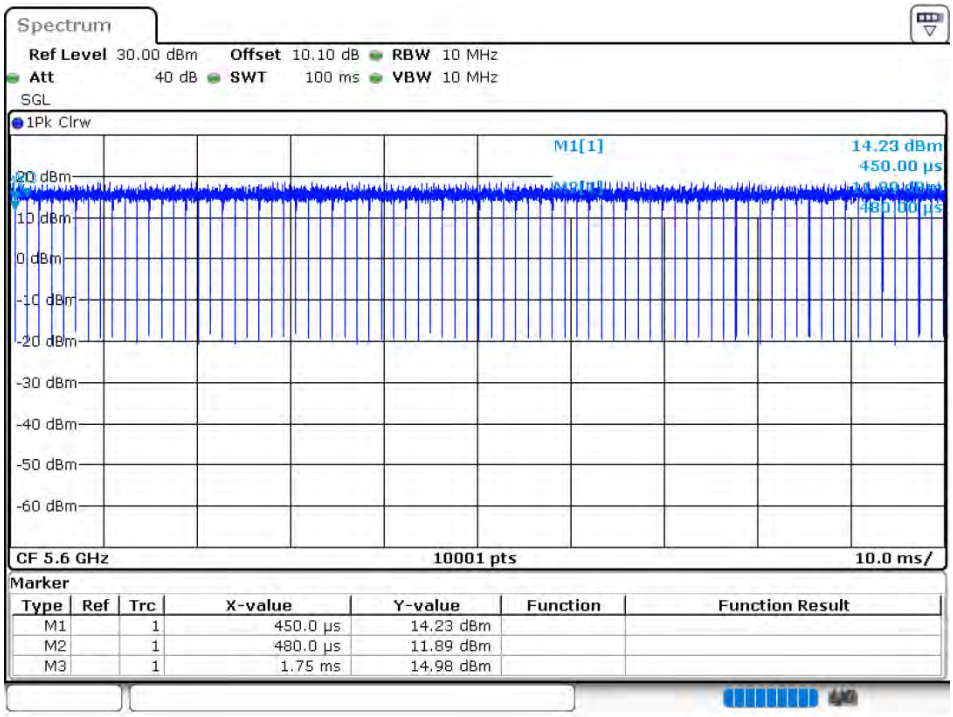
Duty Cycle NVNT a 5700MHz Ant1



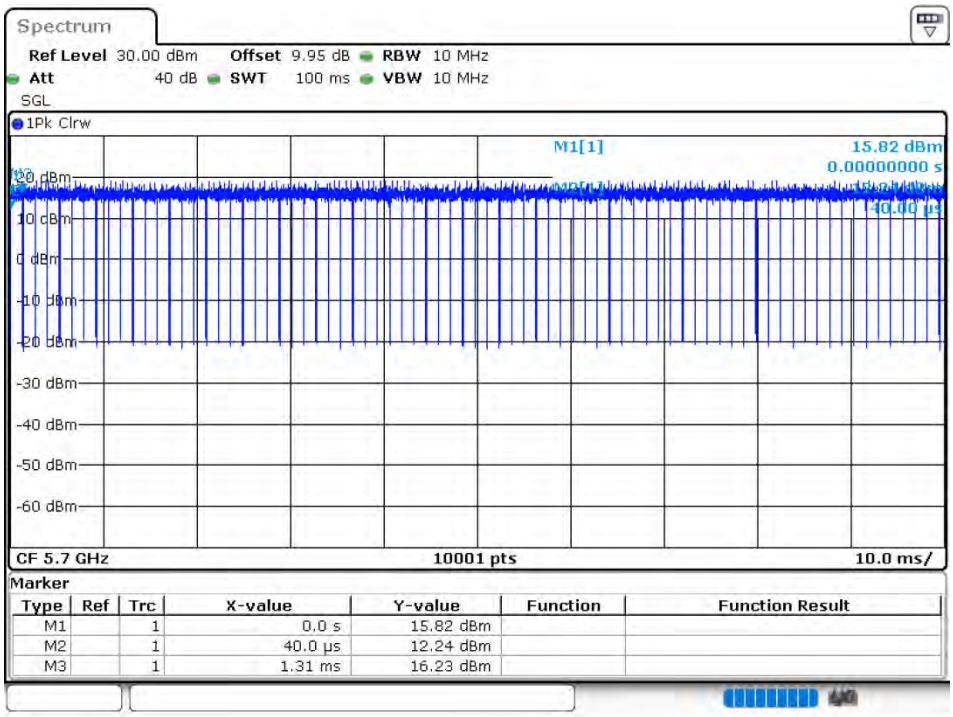
Duty Cycle NVNT n20 5500MHz Ant1



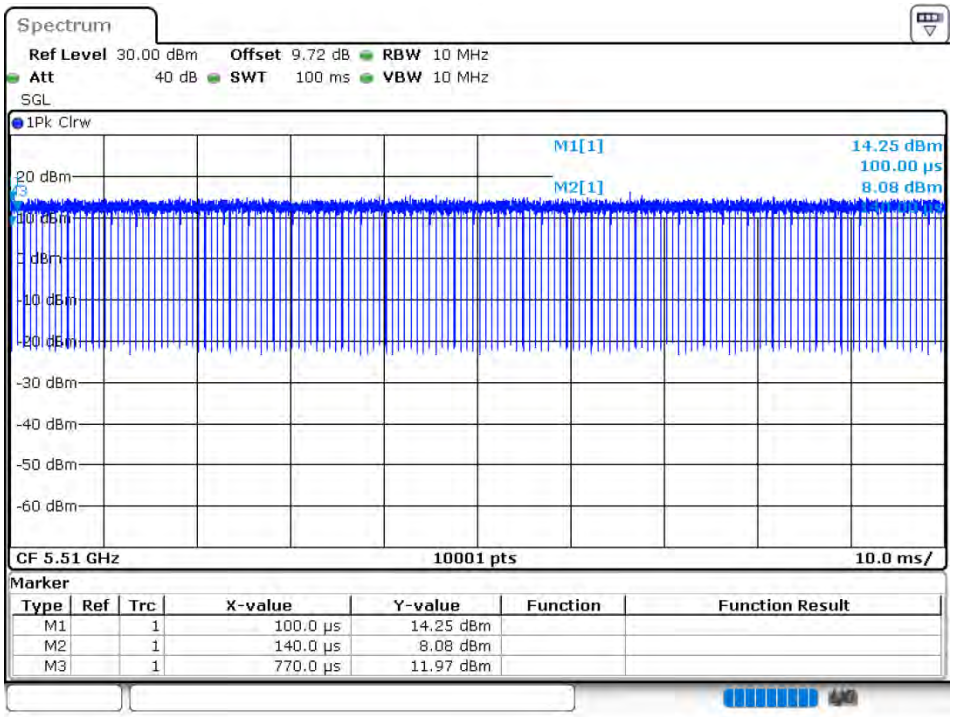
Duty Cycle NVNT n20 5600MHz Ant1



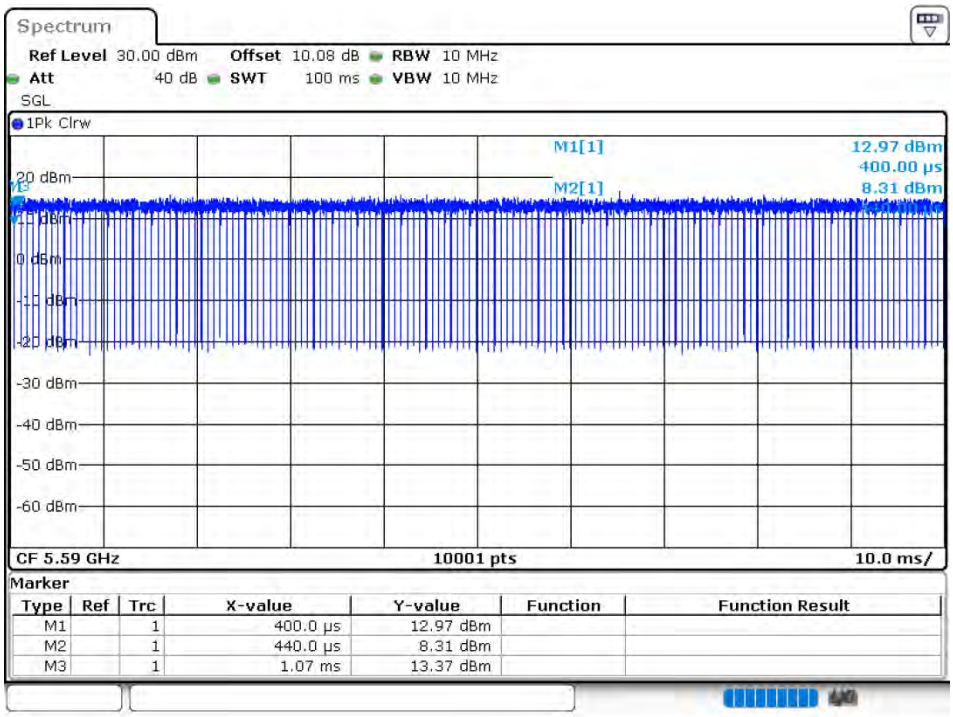
Duty Cycle NVNT n20 5700MHz Ant1



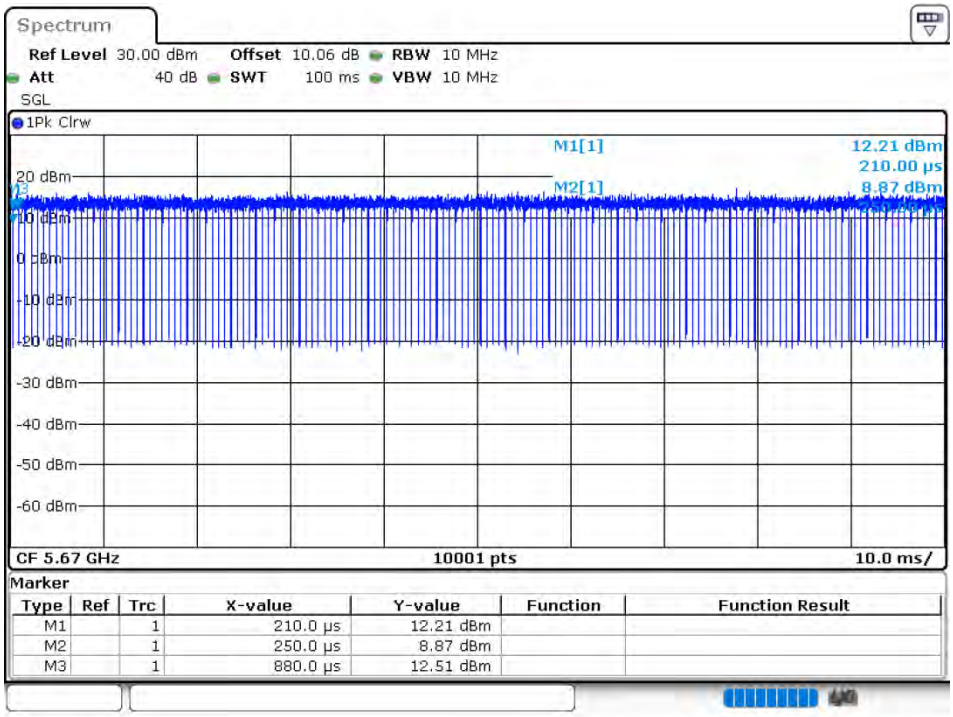
Duty Cycle NVNT n40 5510MHz Ant1



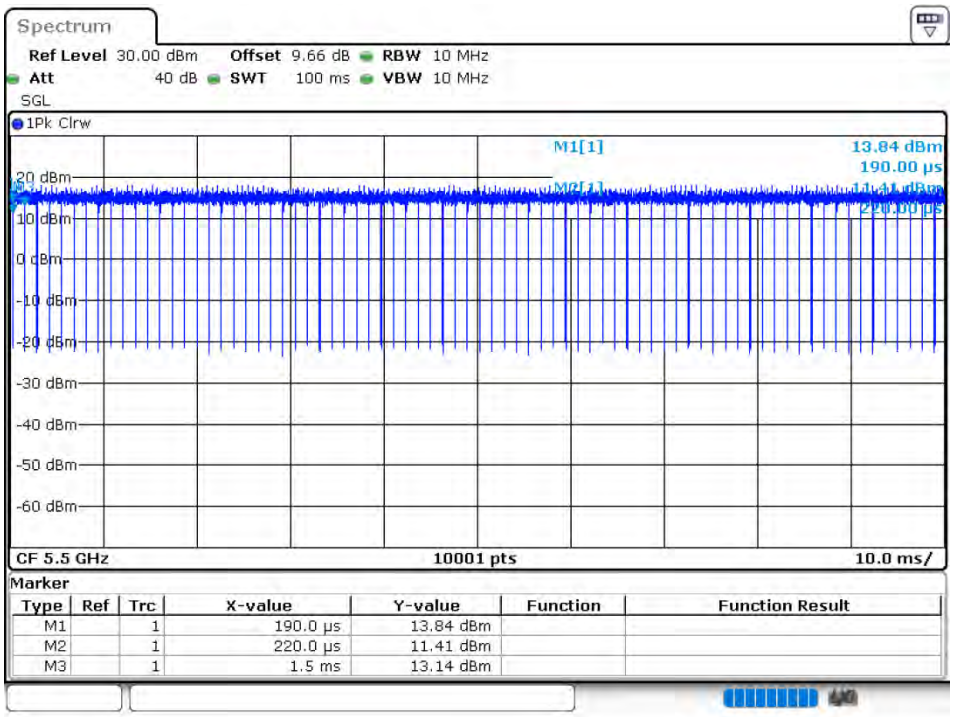
Duty Cycle NVNT n40 5590MHz Ant1



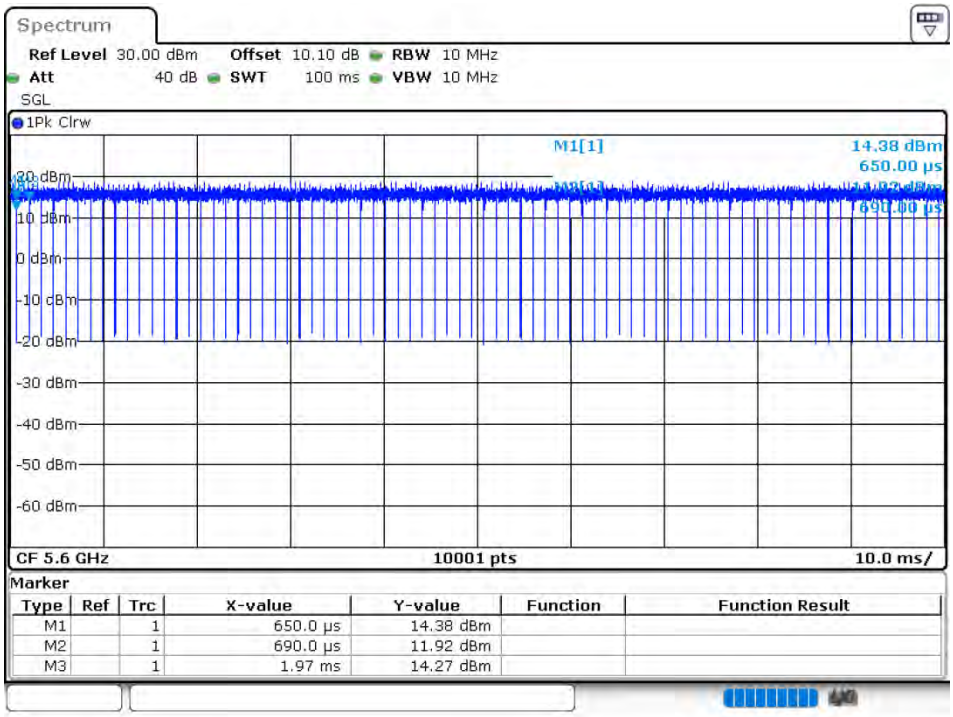
Duty Cycle NVNT n40 5670MHz Ant1



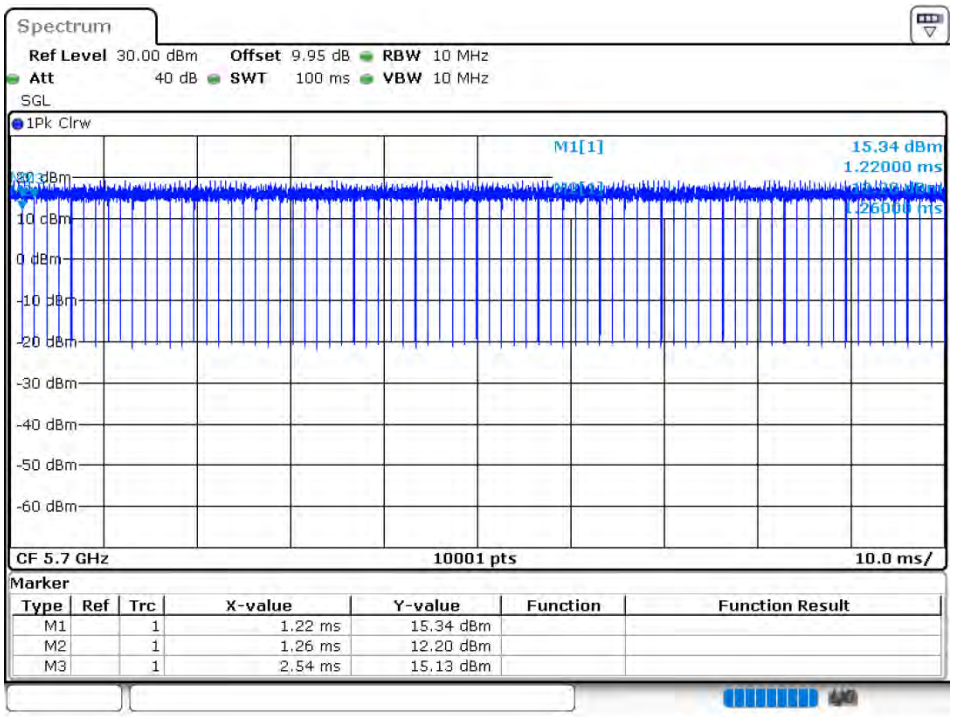
Duty Cycle NVNT ac20 5500MHz Ant1



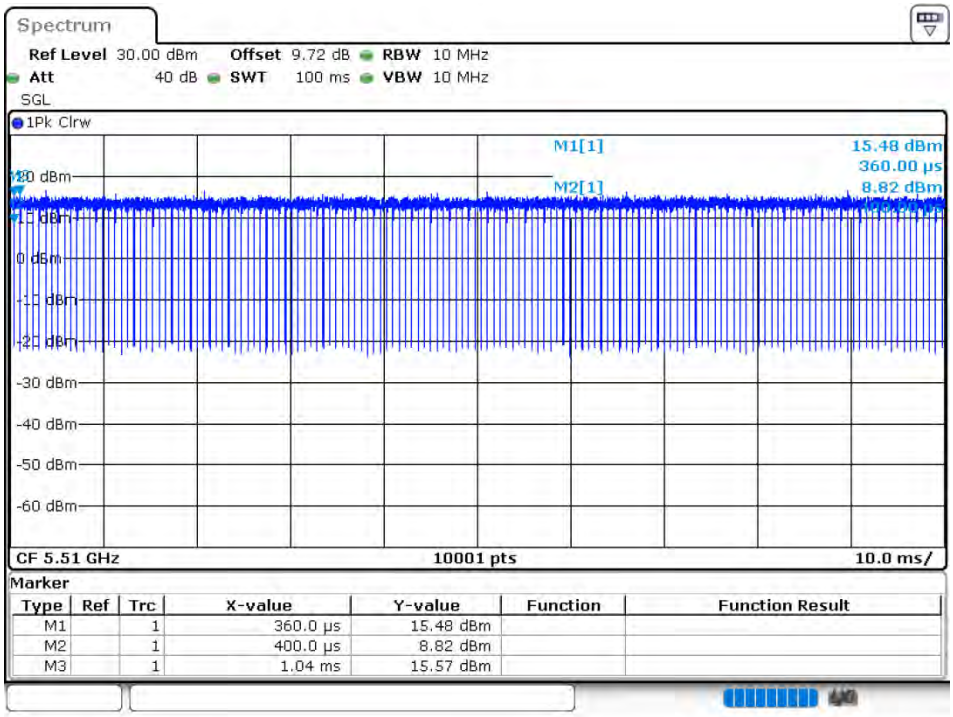
Duty Cycle NVNT ac20 5600MHz Ant1



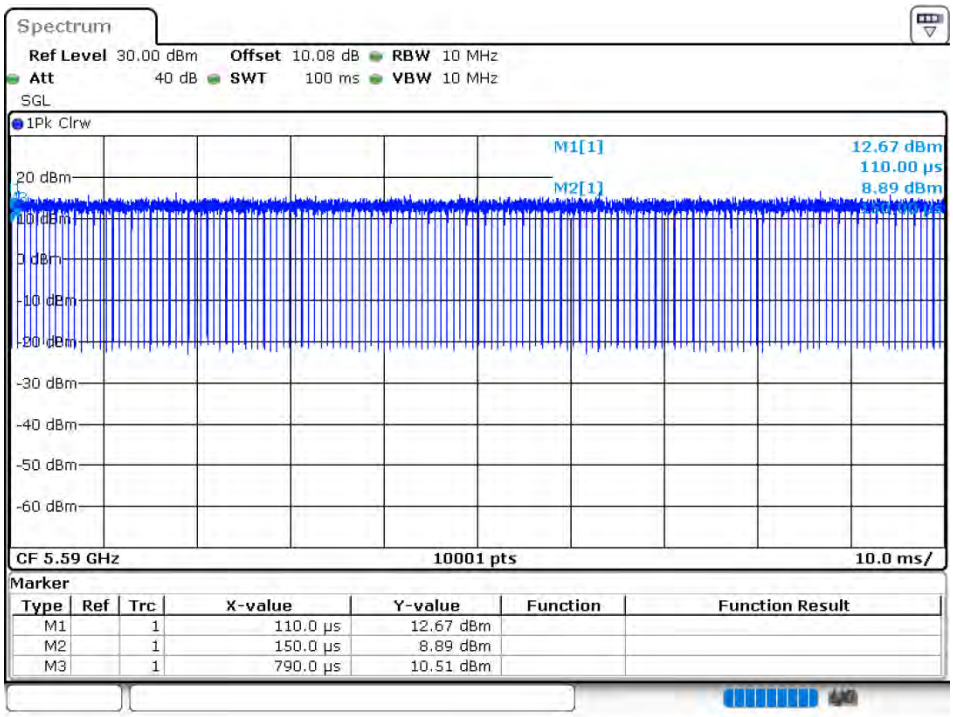
Duty Cycle NVNT ac20 5700MHz Ant1



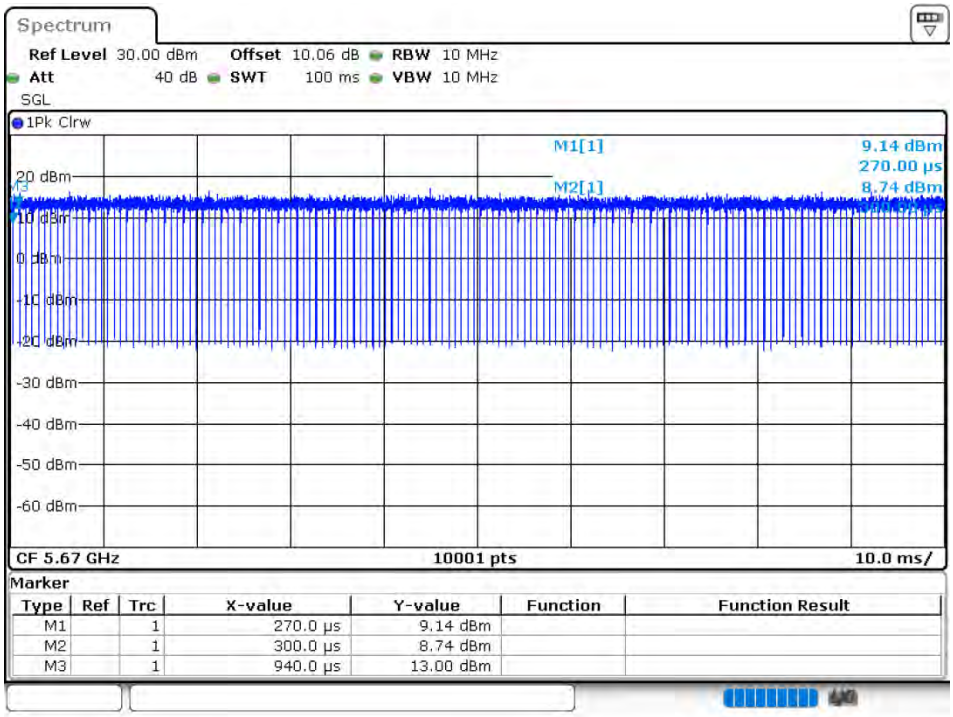
Duty Cycle NVNT ac40 5510MHz Ant1



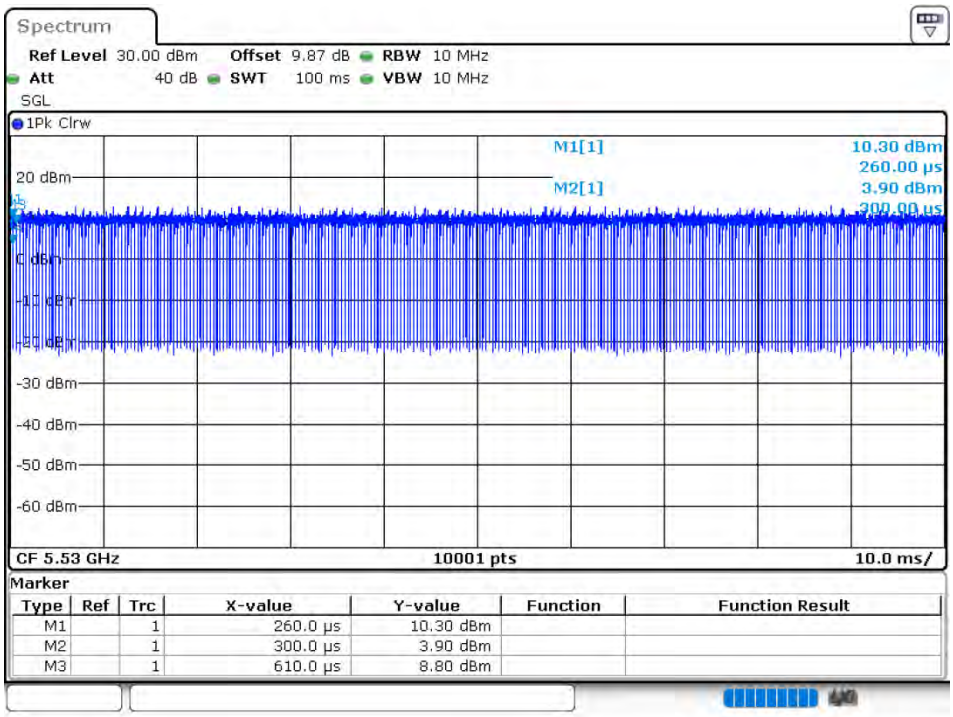
Duty Cycle NVNT ac40 5590MHz Ant1



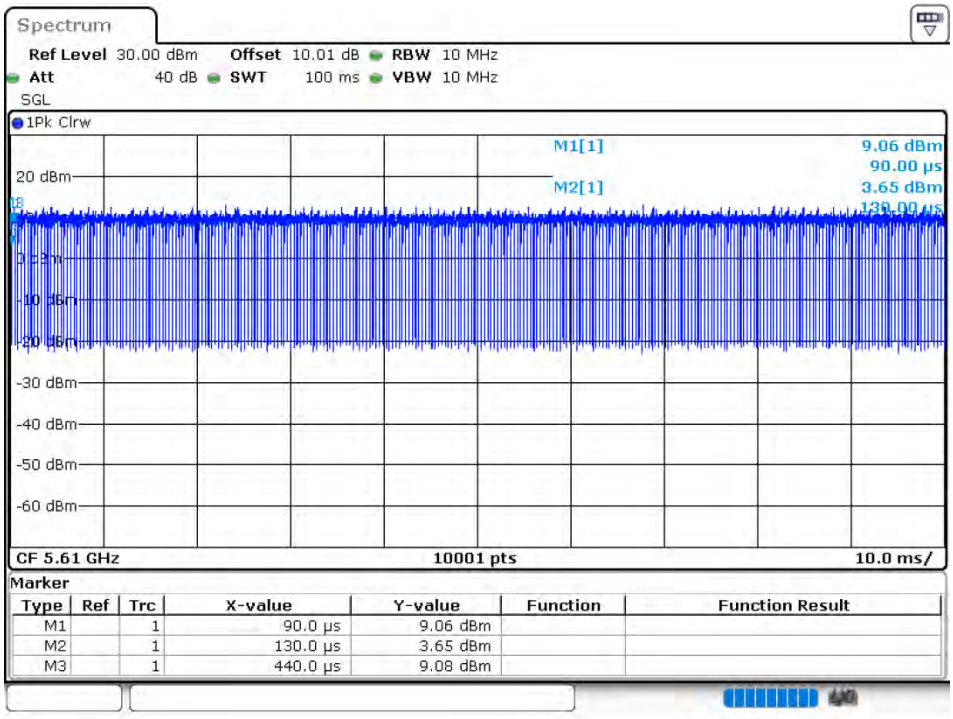
Duty Cycle NVNT ac40 5670MHz Ant1



Duty Cycle NVNT ac80 5530MHz Ant1



Duty Cycle NVNT ac80 5610MHz Ant1



Maximum Conducted Output Power

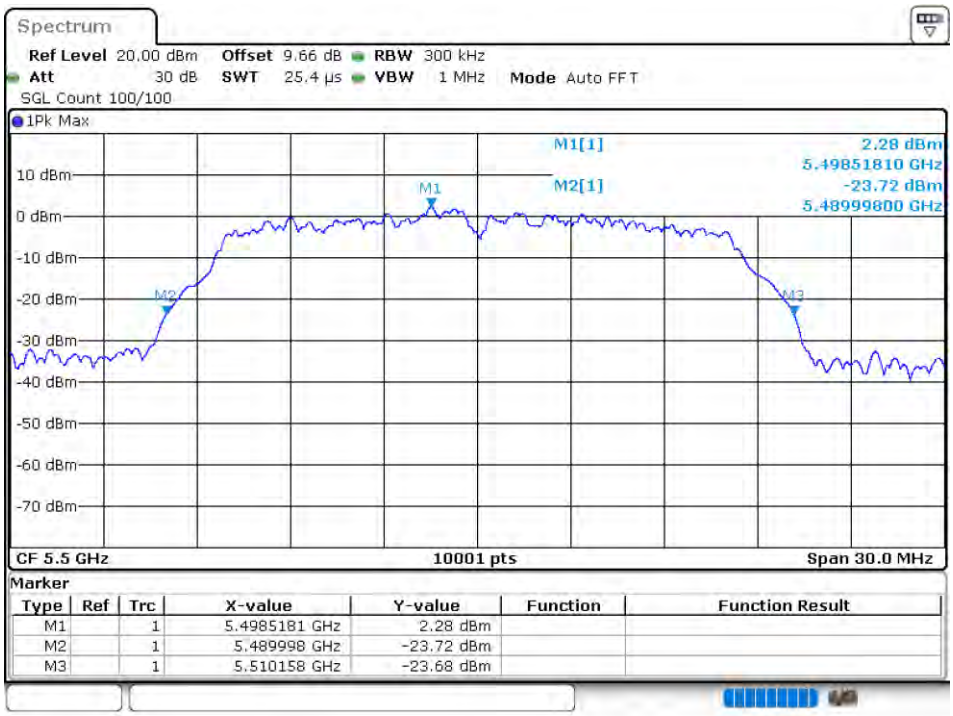
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	9.54	0.08	9.62	24	Pass
NVNT	a	5600	Ant1	10.07	0.08	10.15	24	Pass
NVNT	a	5700	Ant1	9.78	0.08	9.86	24	Pass
NVNT	n20	5500	Ant1	9.35	0.09	9.44	24	Pass
NVNT	n20	5600	Ant1	10.16	0.09	10.25	24	Pass
NVNT	n20	5700	Ant1	9.64	0.09	9.73	24	Pass
NVNT	n40	5510	Ant1	9.01	0.17	9.18	24	Pass
NVNT	n40	5590	Ant1	9.8	0.17	9.97	24	Pass
NVNT	n40	5670	Ant1	10.16	0.17	10.33	24	Pass
NVNT	ac20	5500	Ant1	9.34	0.09	9.43	24	Pass
NVNT	ac20	5600	Ant1	10.13	0.09	10.22	24	Pass
NVNT	ac20	5700	Ant1	9.65	0.09	9.74	24	Pass
NVNT	ac40	5510	Ant1	9.73	0.17	9.9	24	Pass
NVNT	ac40	5590	Ant1	9.89	0.17	10.06	24	Pass
NVNT	ac40	5670	Ant1	10.03	0.17	10.2	24	Pass
NVNT	ac80	5530	Ant1	9.09	0.33	9.42	24	Pass
NVNT	ac80	5610	Ant1	9.34	0.33	9.67	24	Pass

-26dB Bandwidth

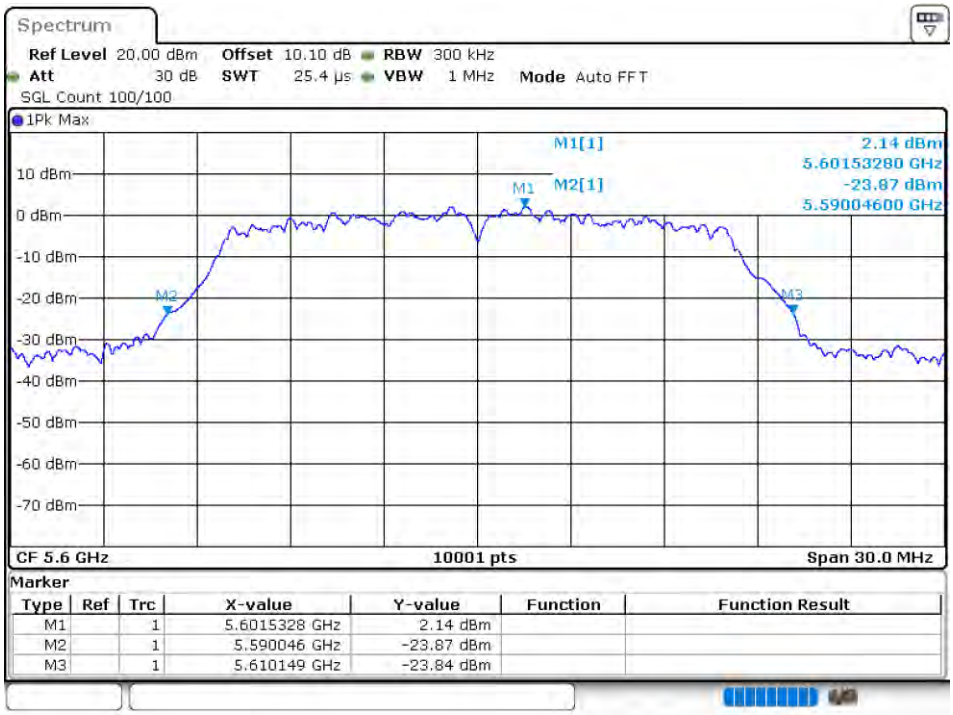
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	20.16	Pass
NVNT	a	5600	Ant1	20.103	Pass
NVNT	a	5700	Ant1	19.401	Pass
NVNT	n20	5500	Ant1	20.325	Pass
NVNT	n20	5600	Ant1	20.235	Pass
NVNT	n20	5700	Ant1	20.178	Pass
NVNT	n40	5510	Ant1	40.848	Pass
NVNT	n40	5590	Ant1	41.058	Pass
NVNT	n40	5670	Ant1	40.764	Pass
NVNT	ac20	5500	Ant1	20.13	Pass
NVNT	ac20	5600	Ant1	20.004	Pass
NVNT	ac20	5700	Ant1	19.944	Pass
NVNT	ac40	5510	Ant1	40.458	Pass
NVNT	ac40	5590	Ant1	41.106	Pass
NVNT	ac40	5670	Ant1	40.554	Pass
NVNT	ac80	5530	Ant1	82.152	Pass
NVNT	ac80	5610	Ant1	82.008	Pass

Test Graphs

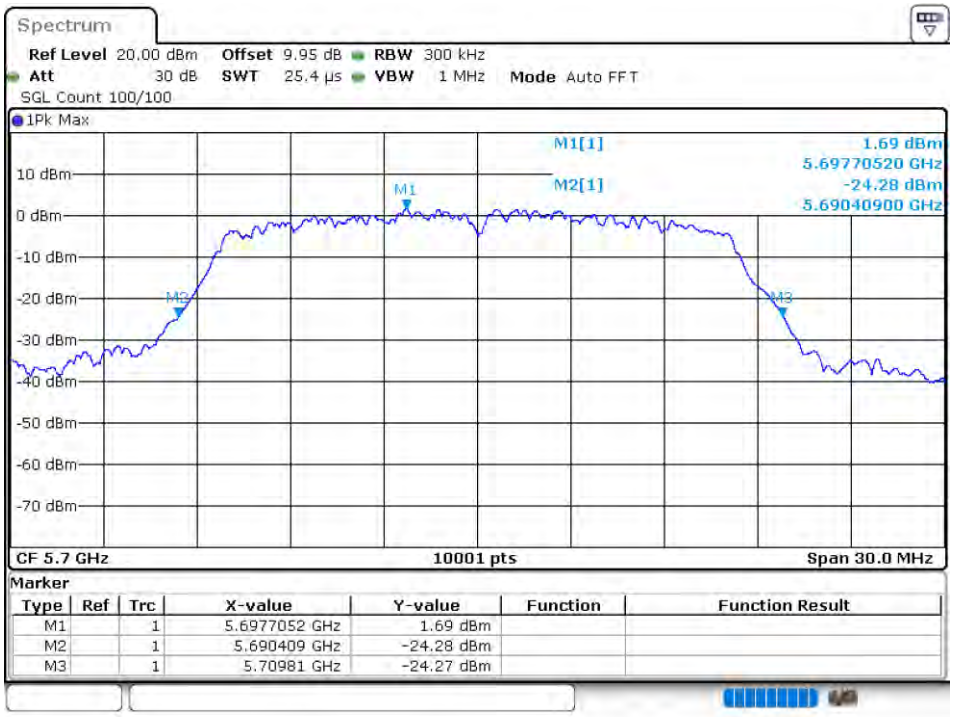
-26dB Bandwidth NVNT a 5500MHz Ant1



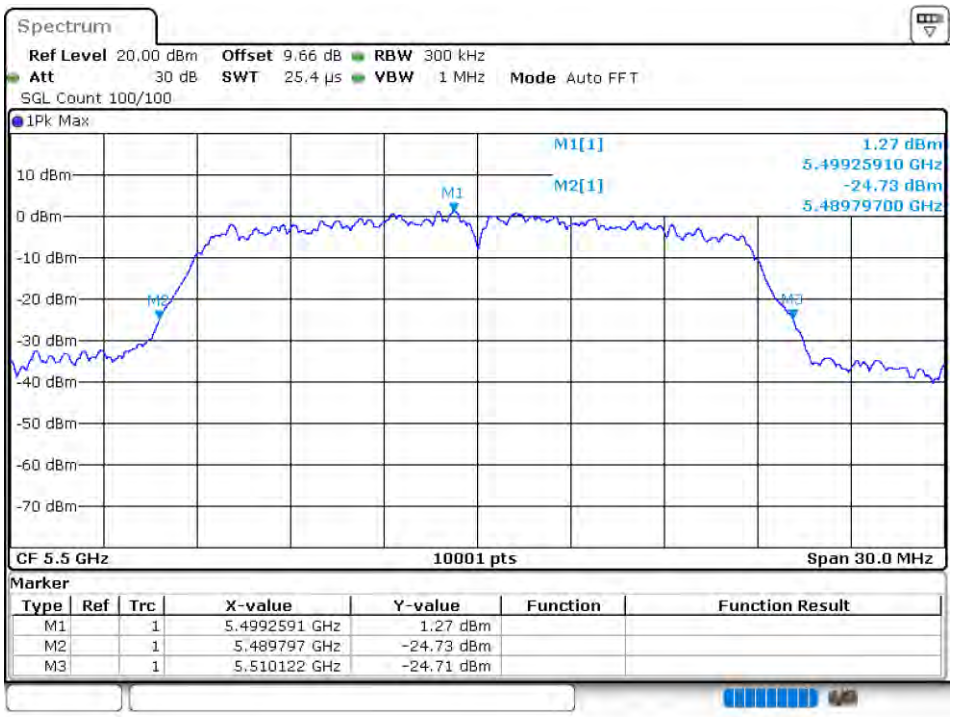
-26dB Bandwidth NVNT a 5600MHz Ant1



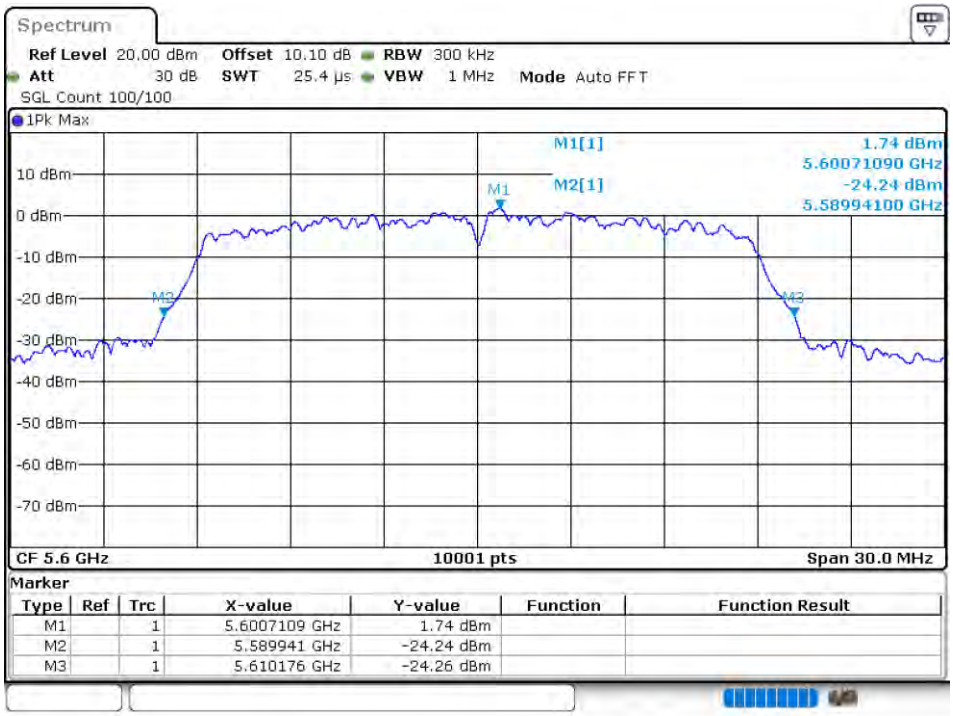
-26dB Bandwidth NVNT a 5700MHz Ant1



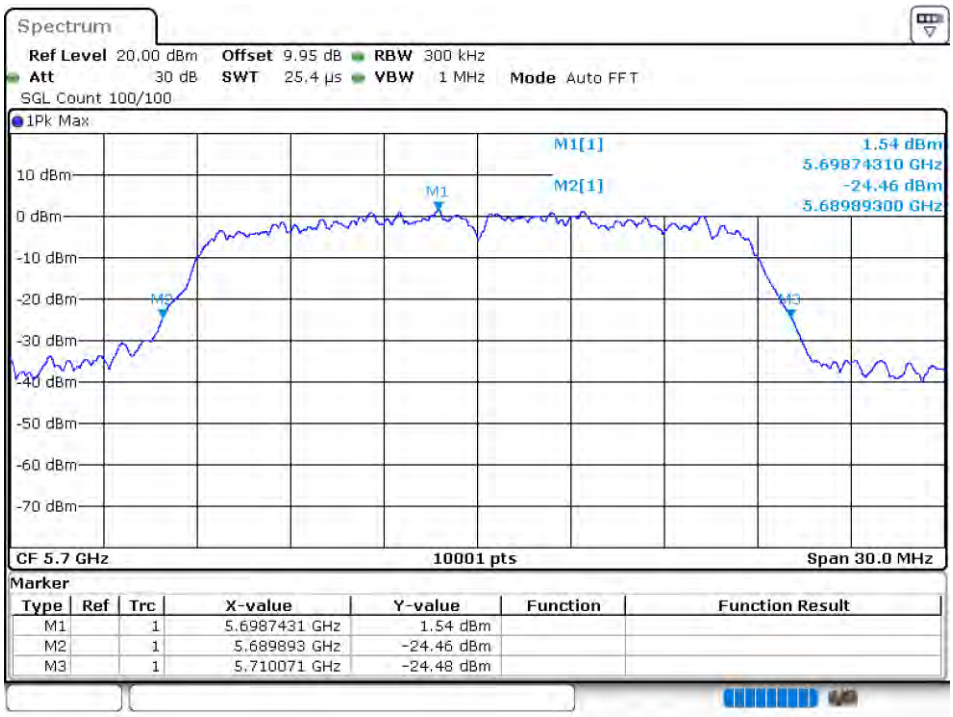
-26dB Bandwidth NVNT n20 5500MHz Ant1



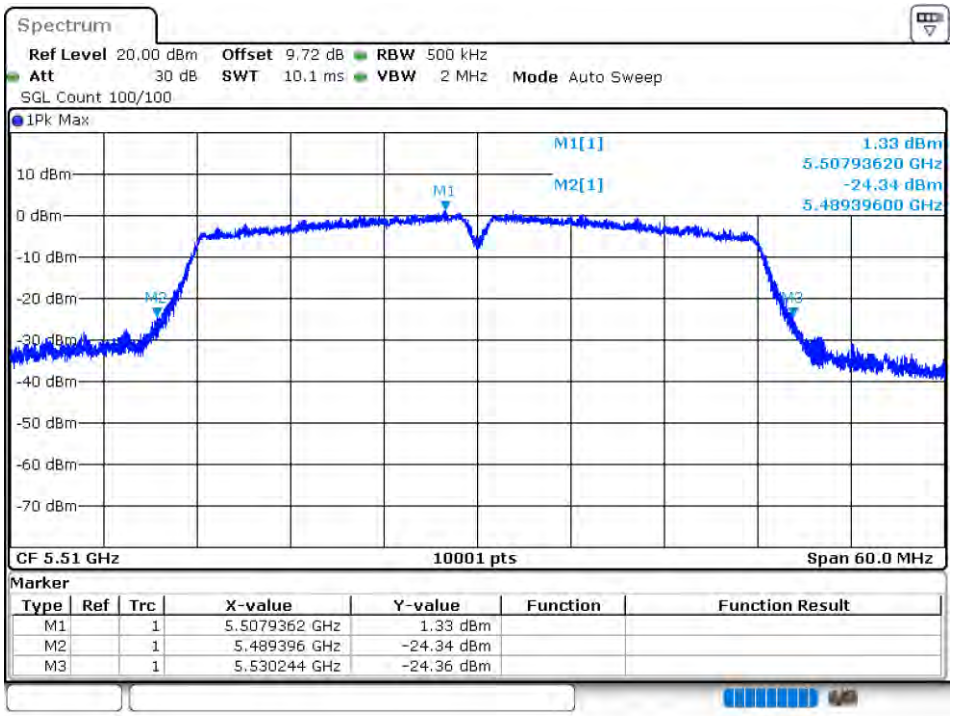
-26dB Bandwidth NVNT n20 5600MHz Ant1



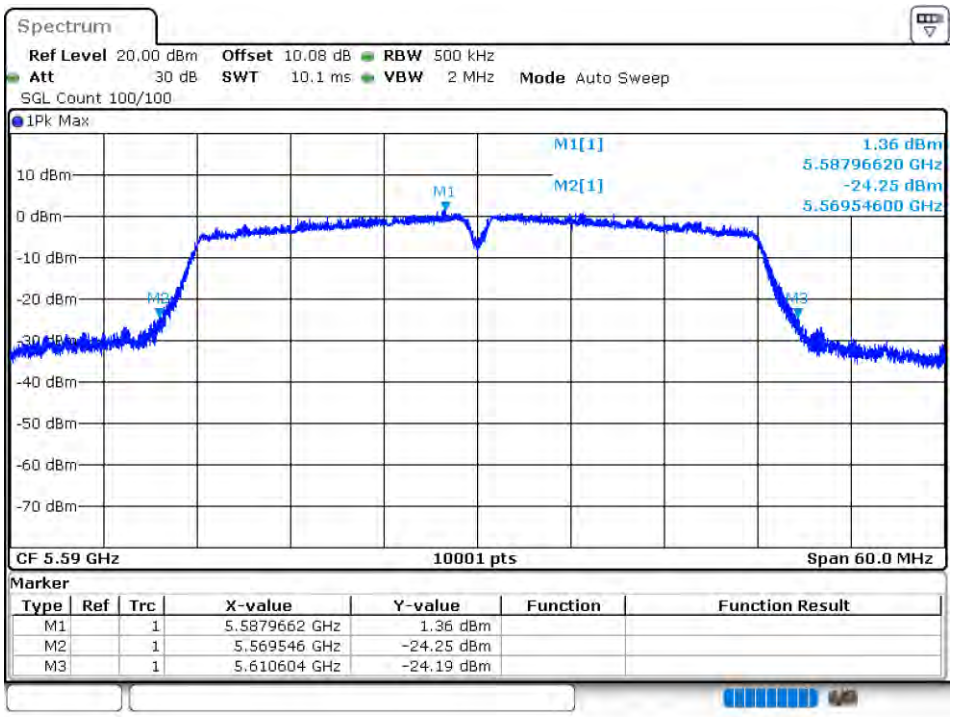
-26dB Bandwidth NVNT n20 5700MHz Ant1



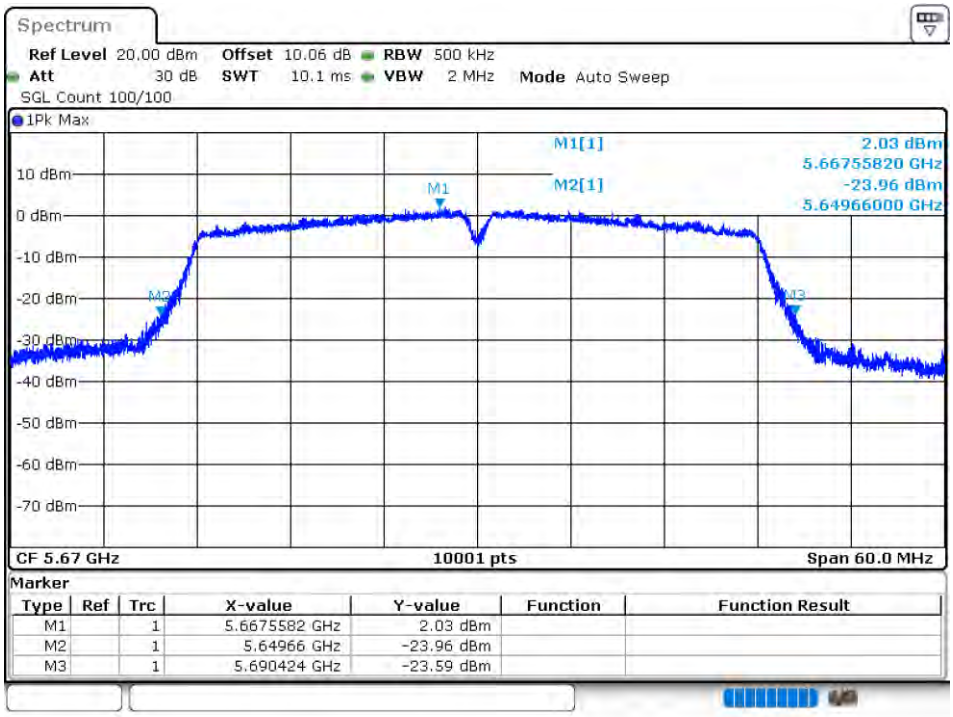
-26dB Bandwidth NVNT n40 5510MHz Ant1



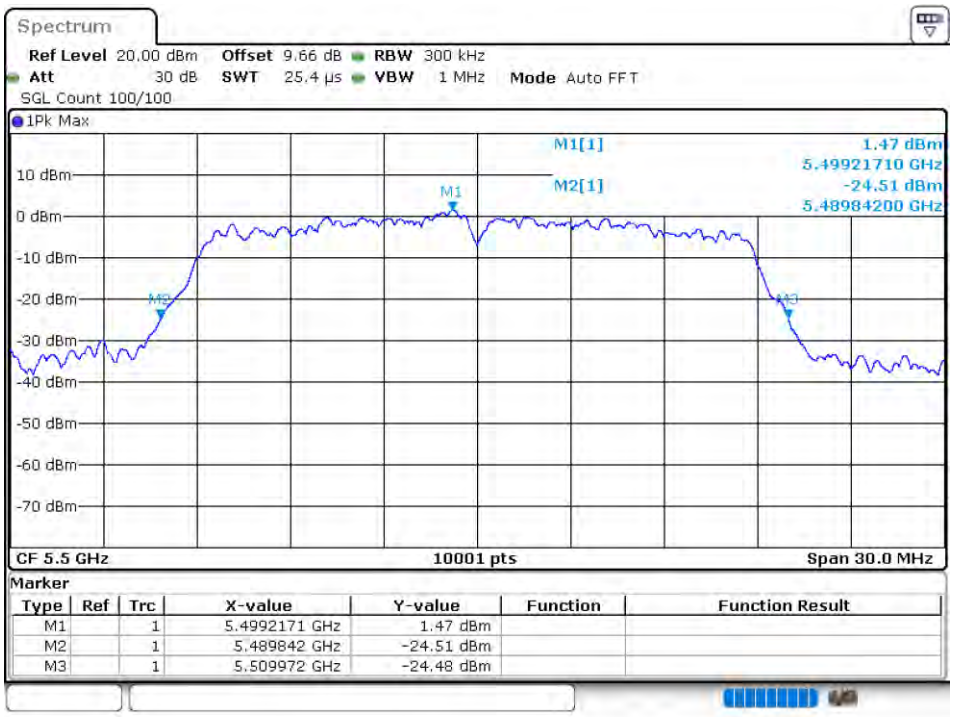
-26dB Bandwidth NVNT n40 5590MHz Ant1



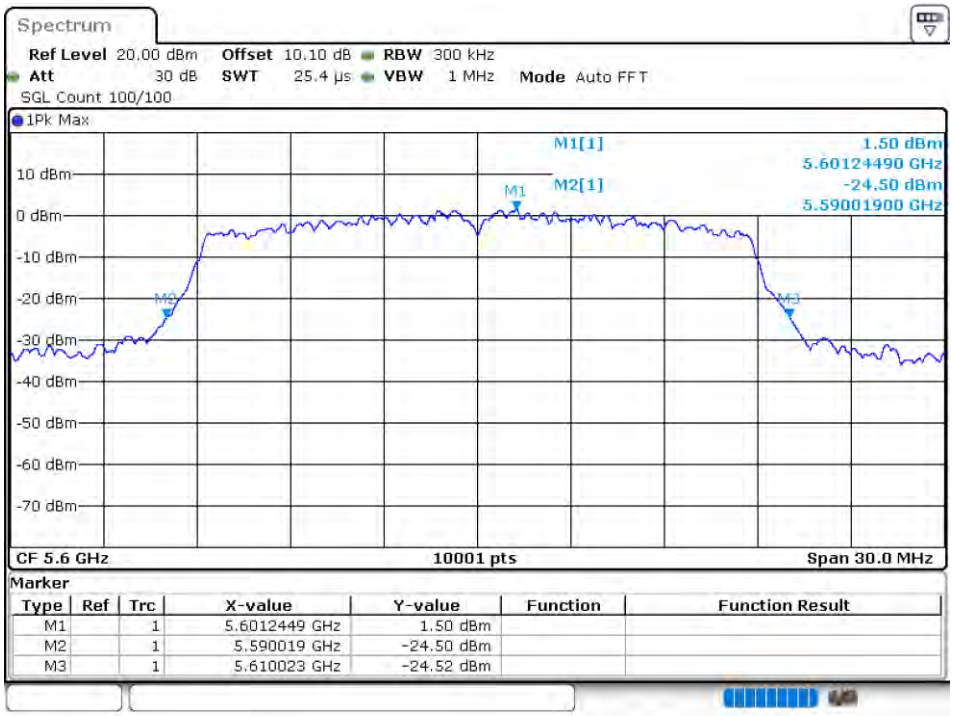
-26dB Bandwidth NVNT n40 5670MHz Ant1



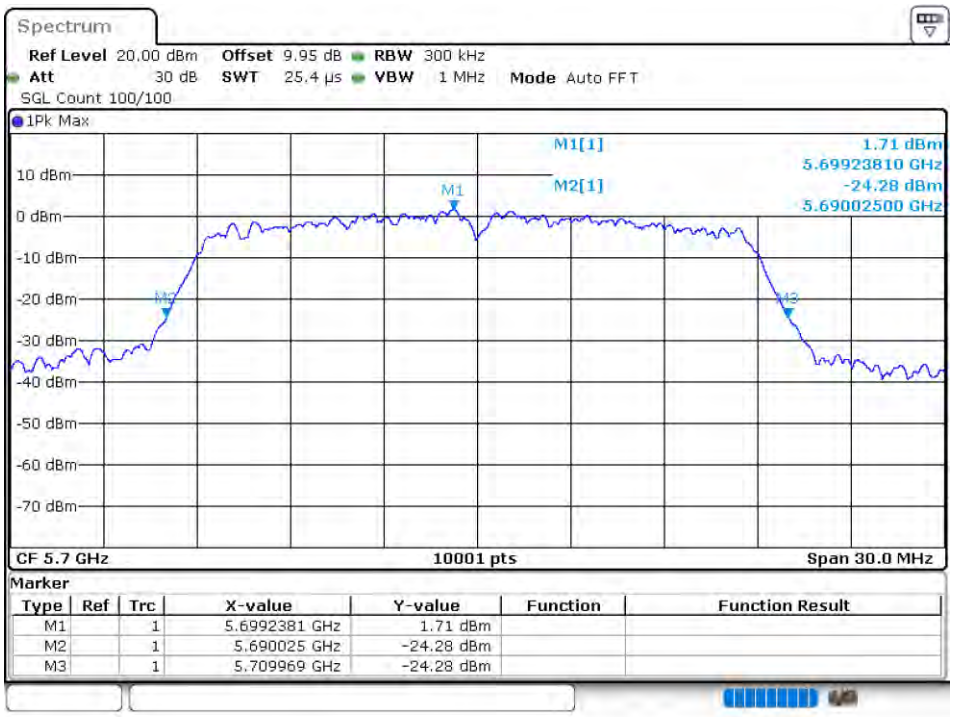
-26dB Bandwidth NVNT ac20 5500MHz Ant1



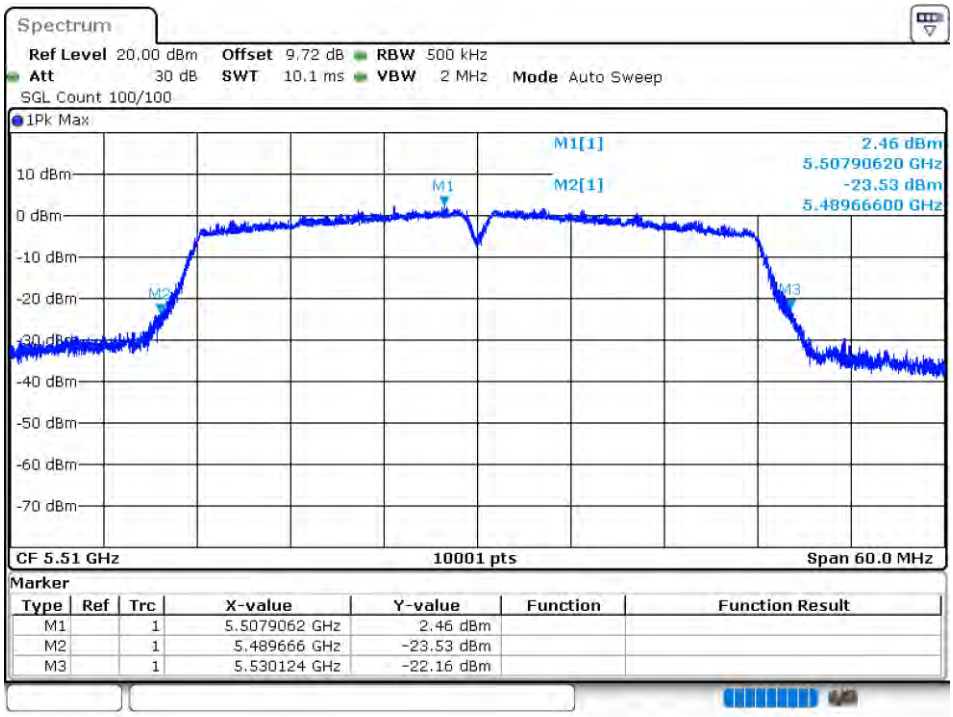
-26dB Bandwidth NVNT ac20 5600MHz Ant1



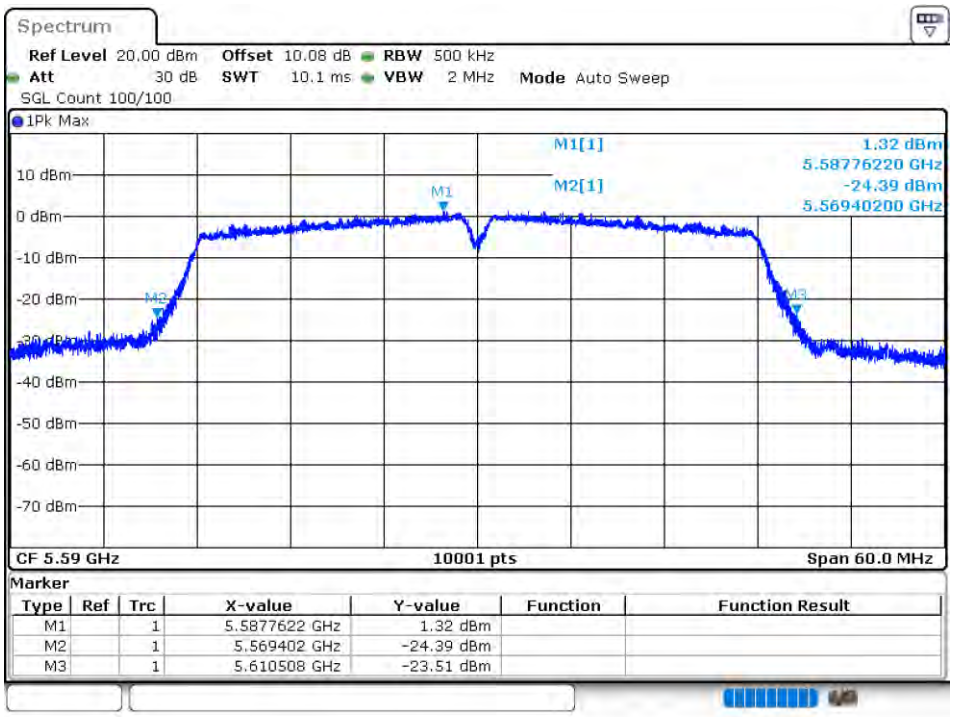
-26dB Bandwidth NVNT ac20 5700MHz Ant1



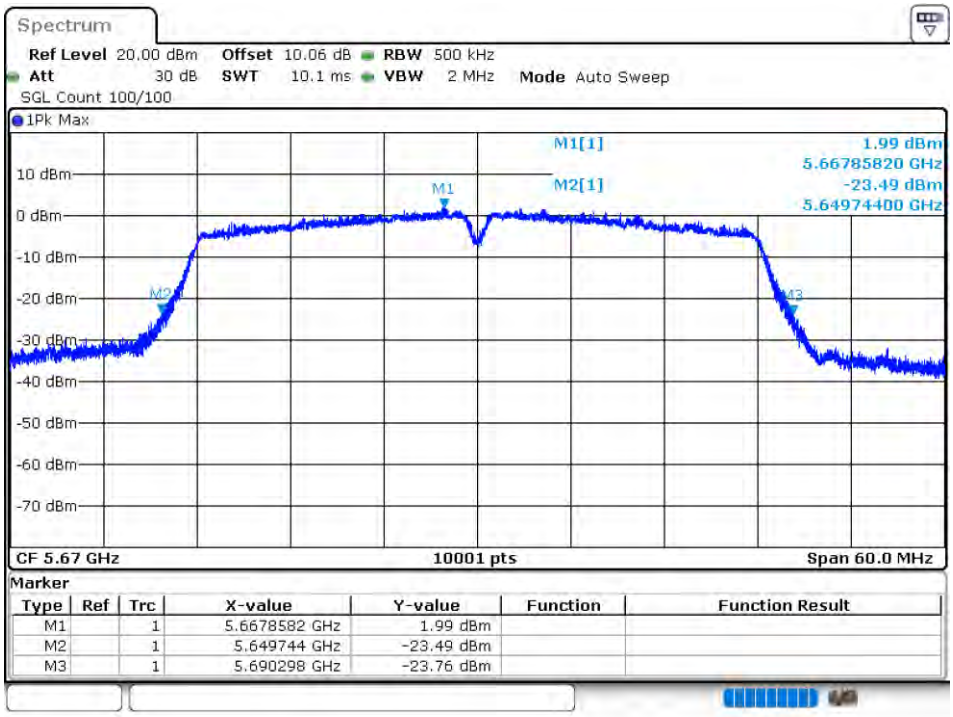
-26dB Bandwidth NVNT ac40 5510MHz Ant1



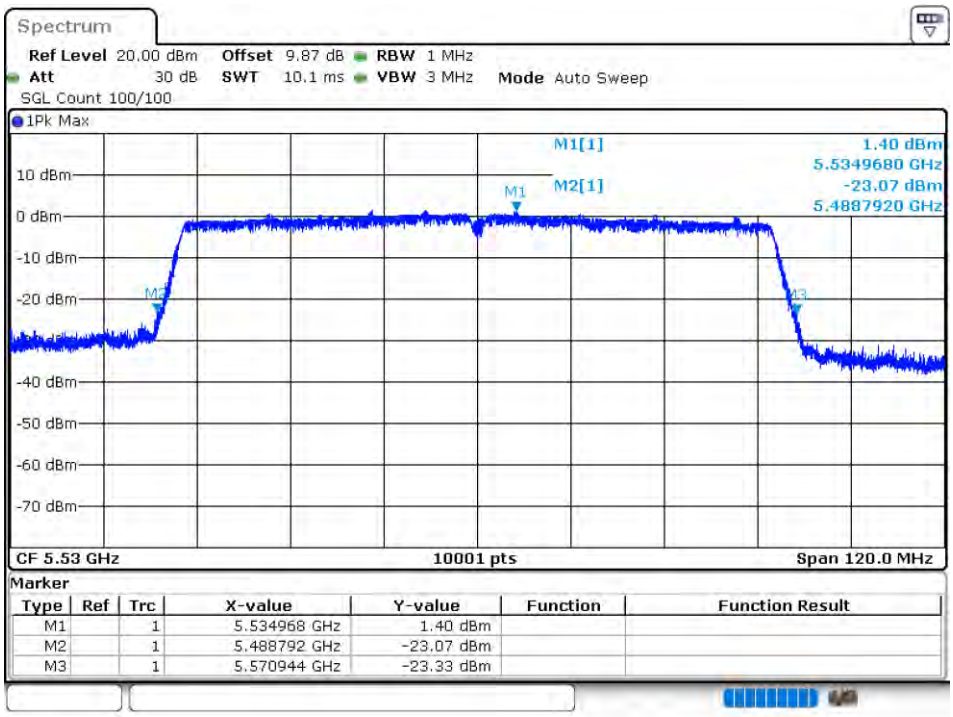
-26dB Bandwidth NVNT ac40 5590MHz Ant1



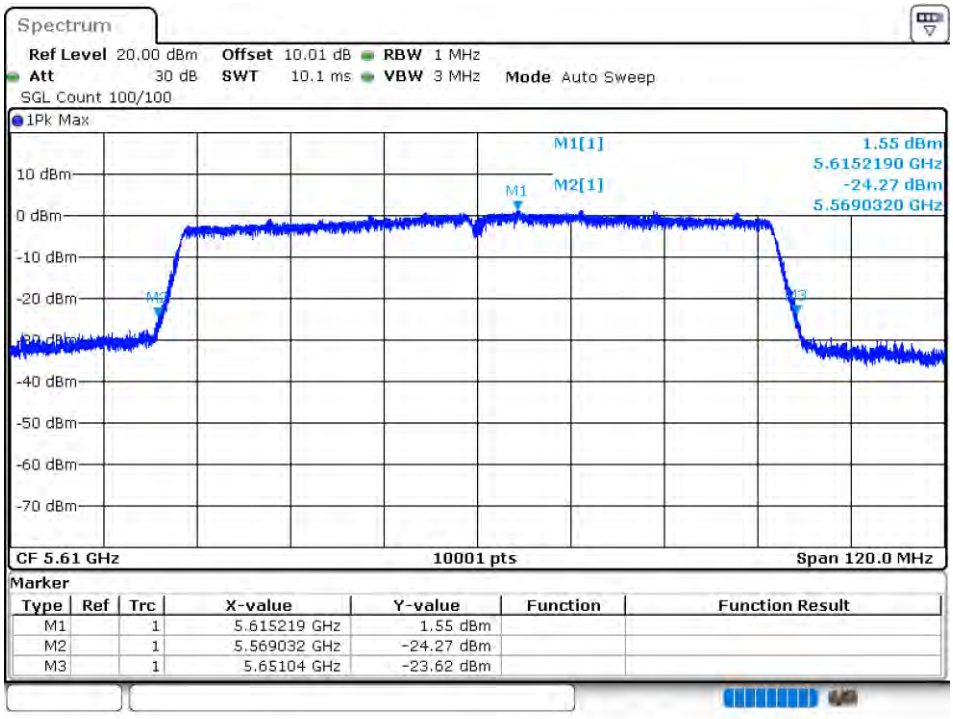
-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1



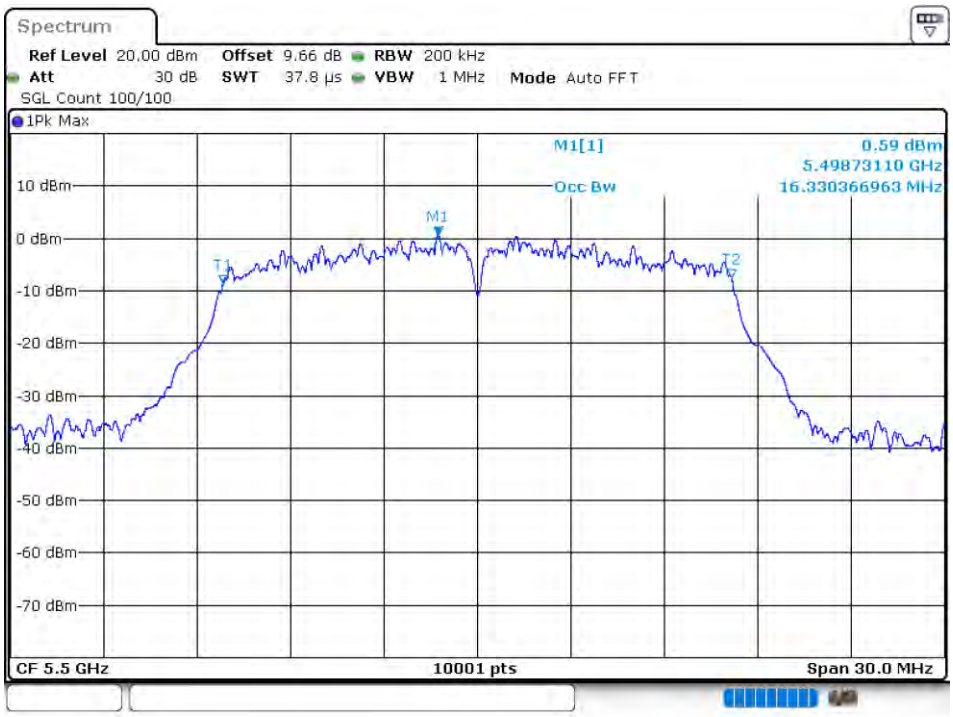
-26dB Bandwidth NVNT ac80 5610MHz Ant1



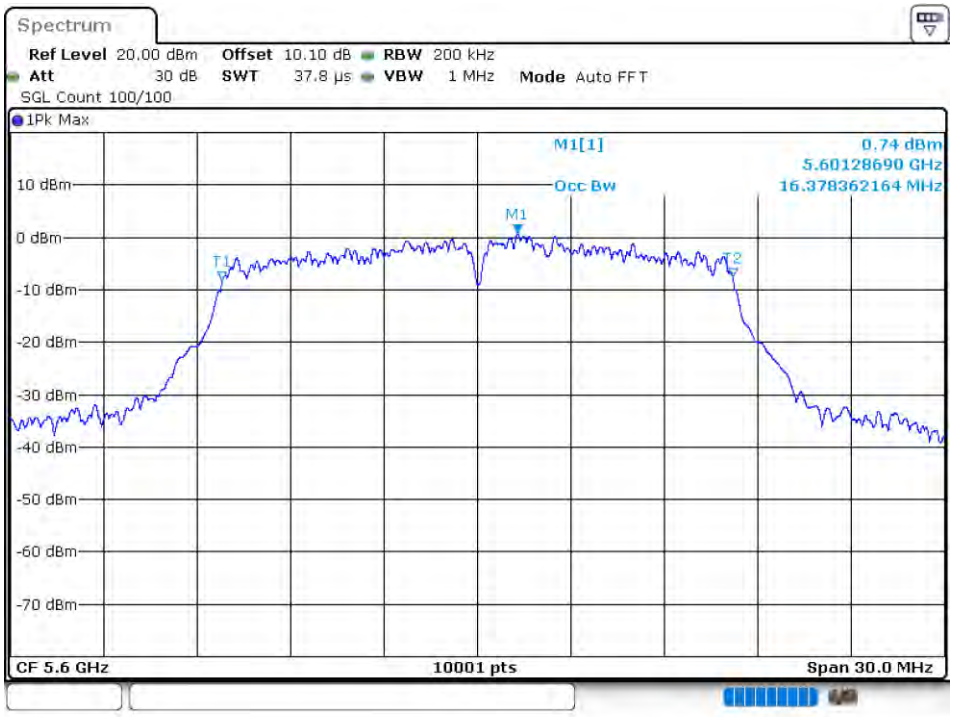
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.33
NVNT	a	5600	Ant1	16.378
NVNT	a	5700	Ant1	16.411
NVNT	n20	5500	Ant1	17.5
NVNT	n20	5600	Ant1	17.599
NVNT	n20	5700	Ant1	17.509
NVNT	n40	5510	Ant1	35.978
NVNT	n40	5590	Ant1	36.062
NVNT	n40	5670	Ant1	35.966
NVNT	ac20	5500	Ant1	17.5
NVNT	ac20	5600	Ant1	17.536
NVNT	ac20	5700	Ant1	17.479
NVNT	ac40	5510	Ant1	35.948
NVNT	ac40	5590	Ant1	36.05
NVNT	ac40	5670	Ant1	35.948
NVNT	ac80	5530	Ant1	75.712
NVNT	ac80	5610	Ant1	75.676

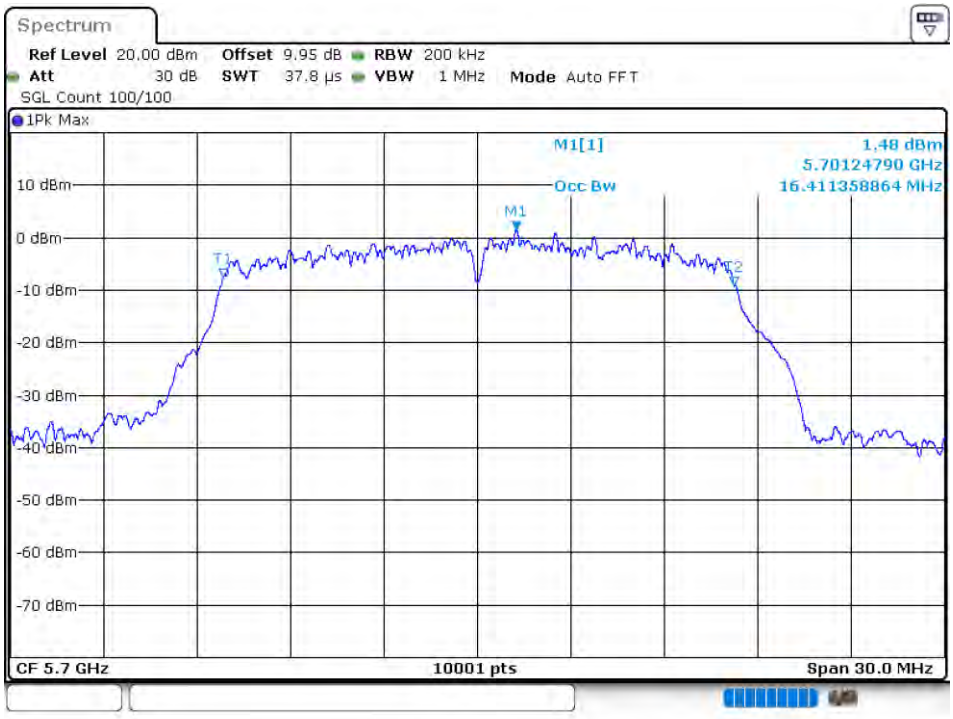
Test Graphs
OBW NVNT a 5500MHz Ant1



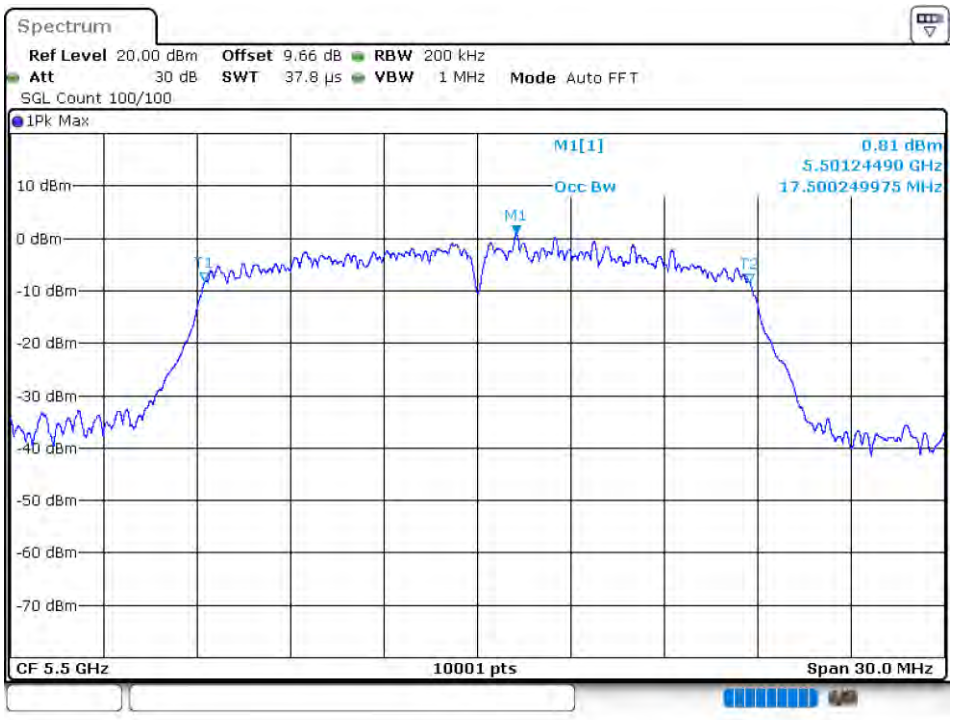
OBW NVNT a 5600MHz Ant1



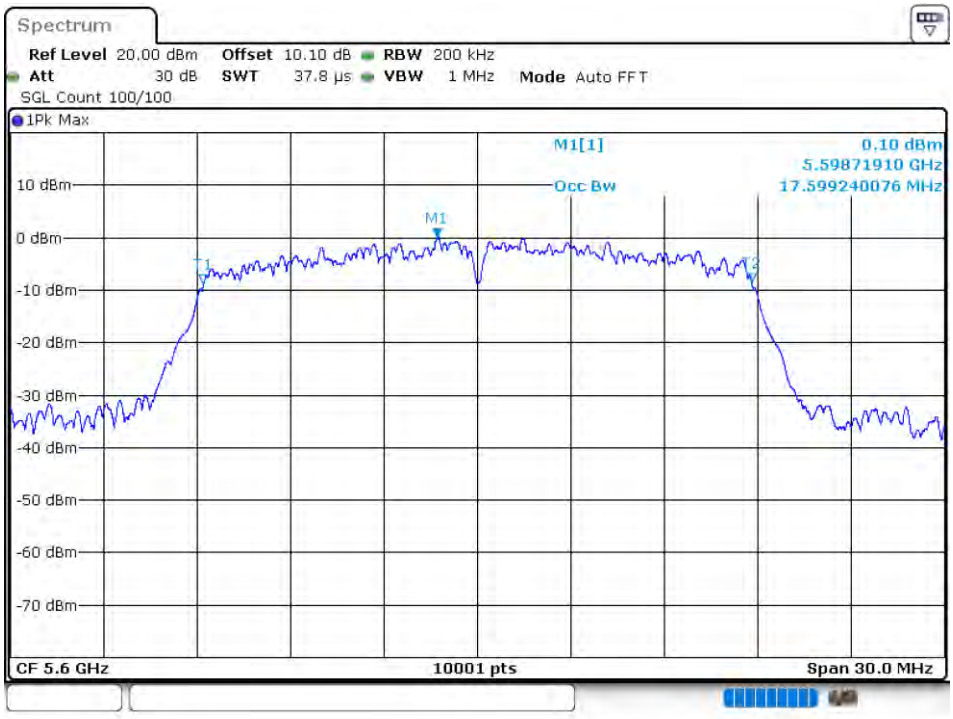
OBW NVNT a 5700MHz Ant1



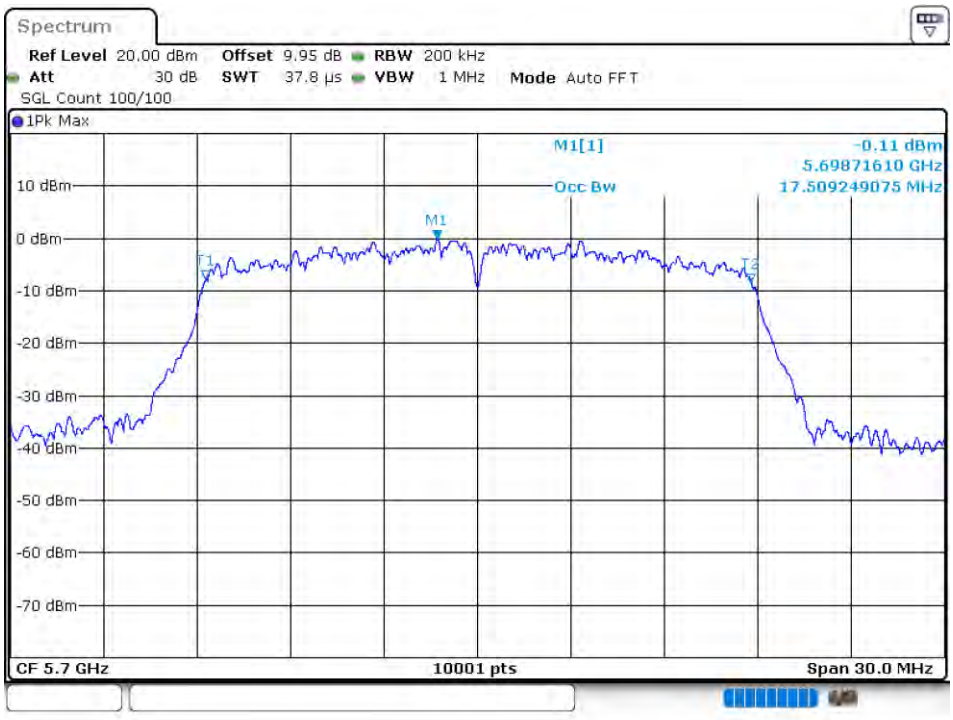
OBW NVNT n20 5500MHz Ant1



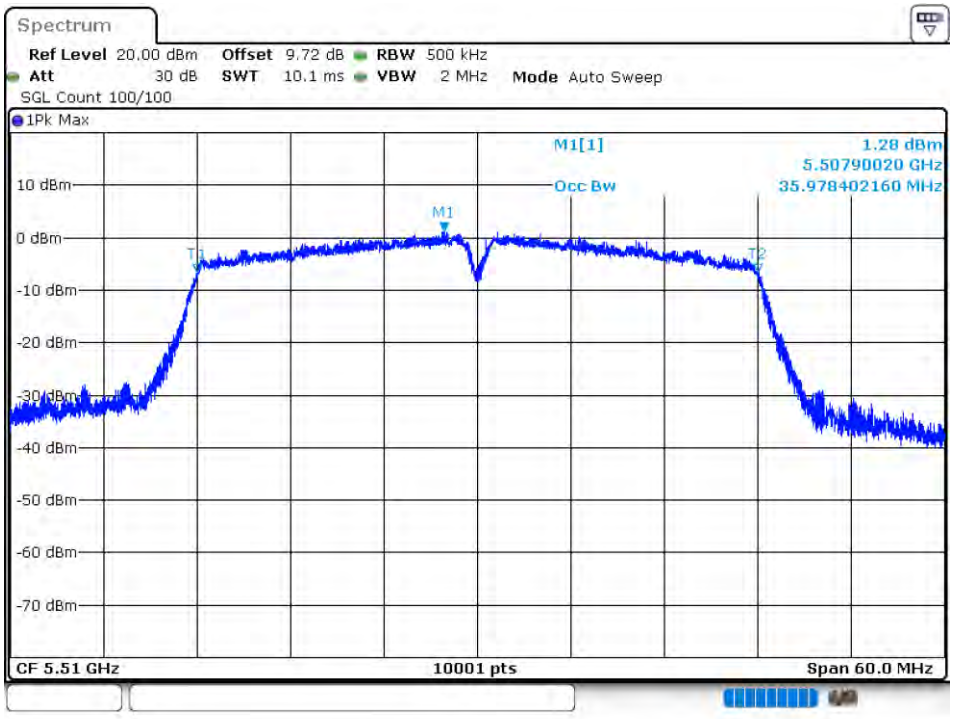
OBW NVNT n20 5600MHz Ant1



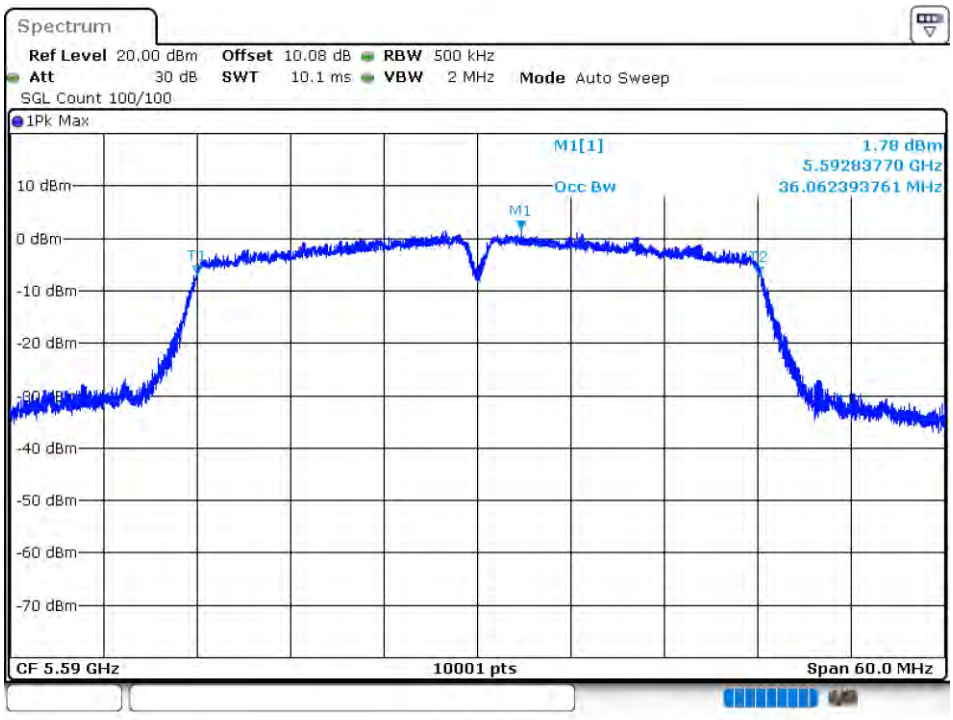
OBW NVNT n20 5700MHz Ant1



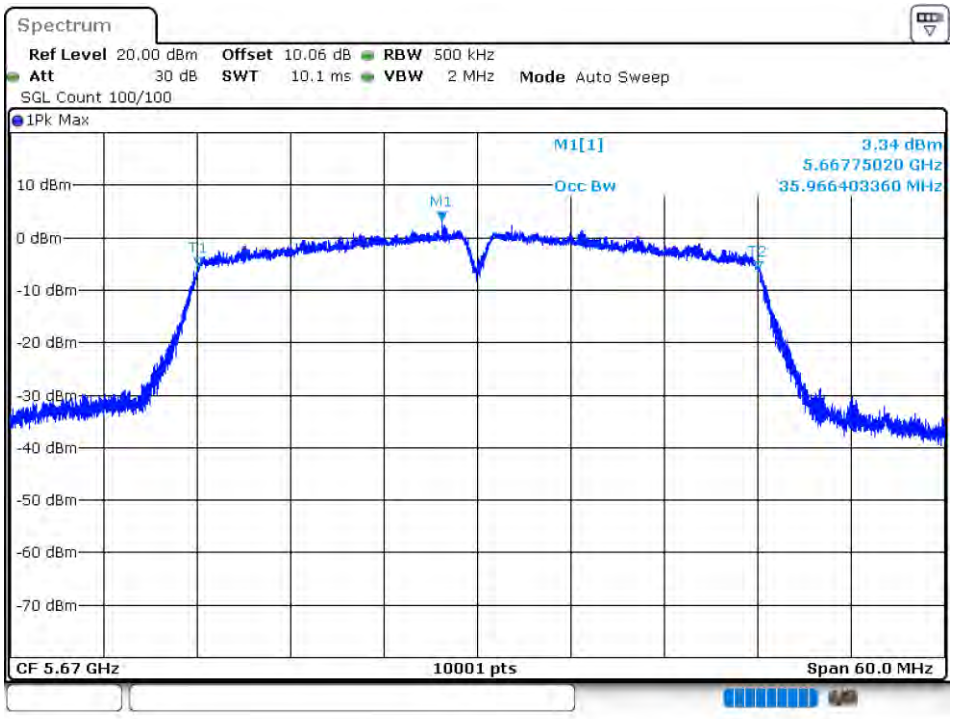
OBW NVNT n40 5510MHz Ant1



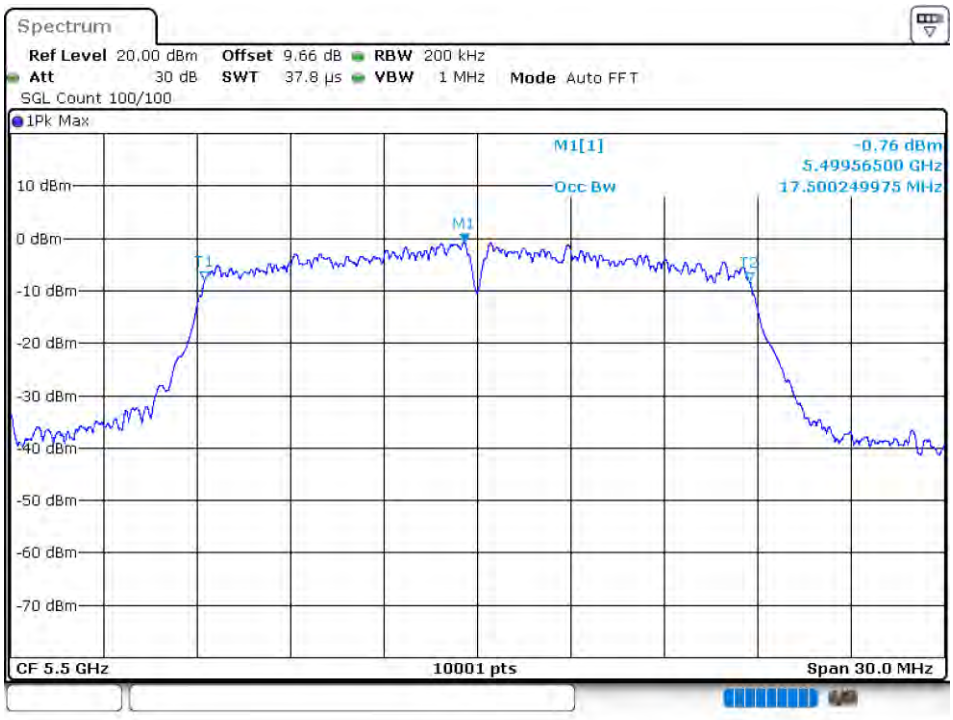
OBW NVNT n40 5590MHz Ant1



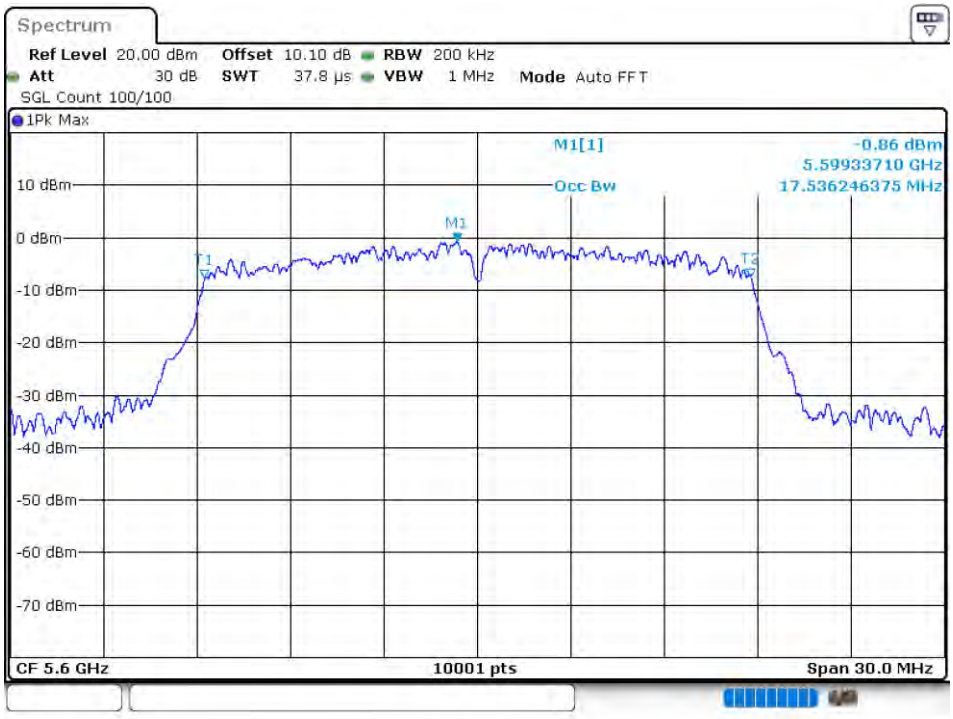
OBW NVNT n40 5670MHz Ant1



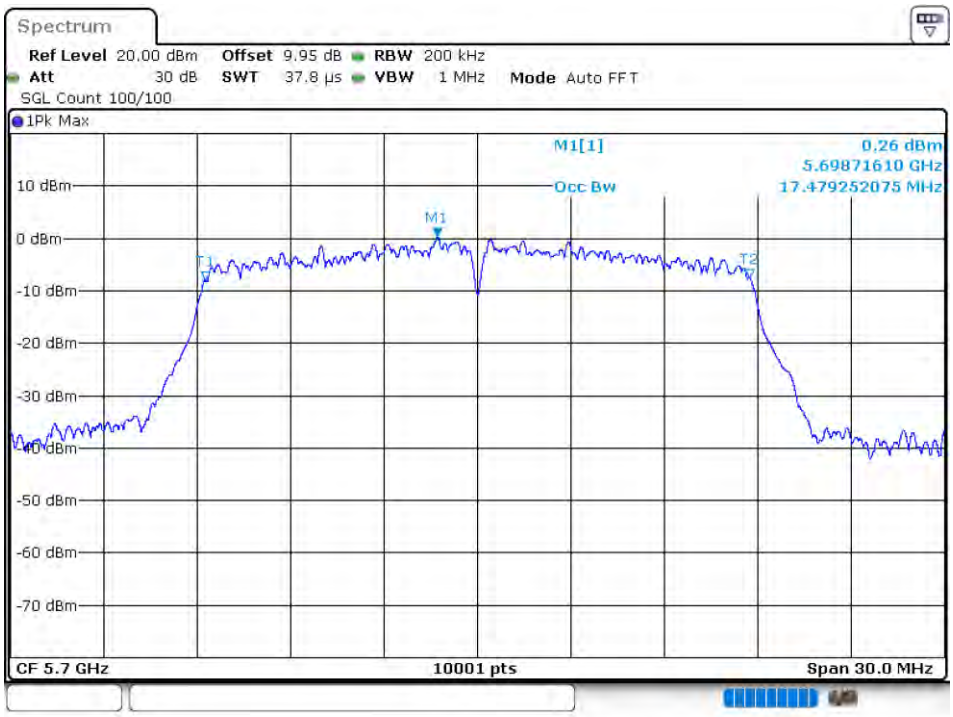
OBW NVNT ac20 5500MHz Ant1



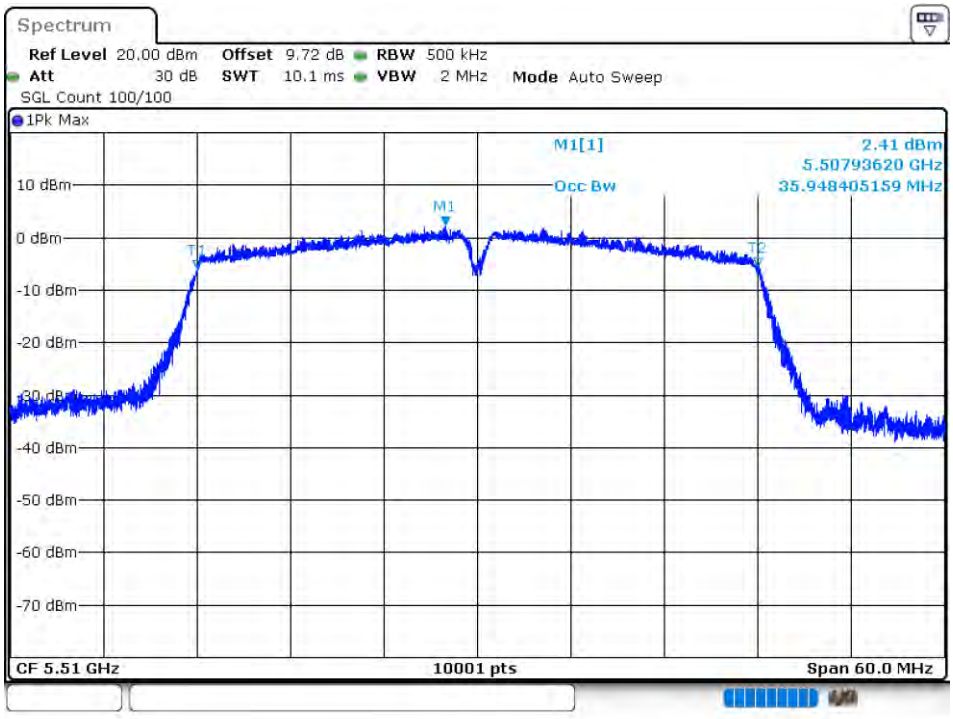
OBW NVNT ac20 5600MHz Ant1



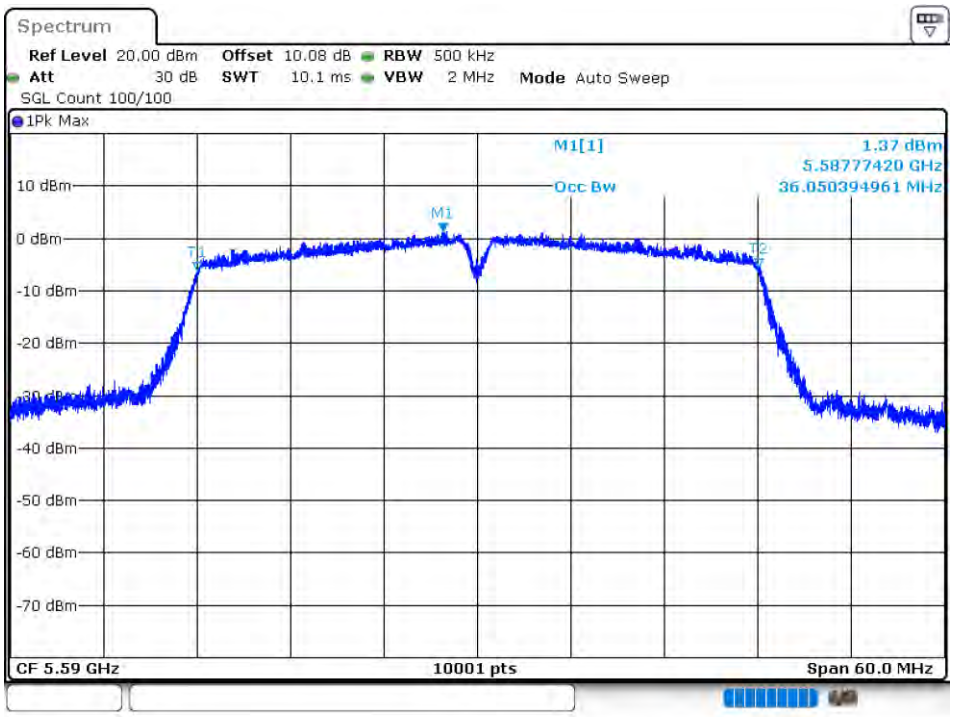
OBW NVNT ac20 5700MHz Ant1



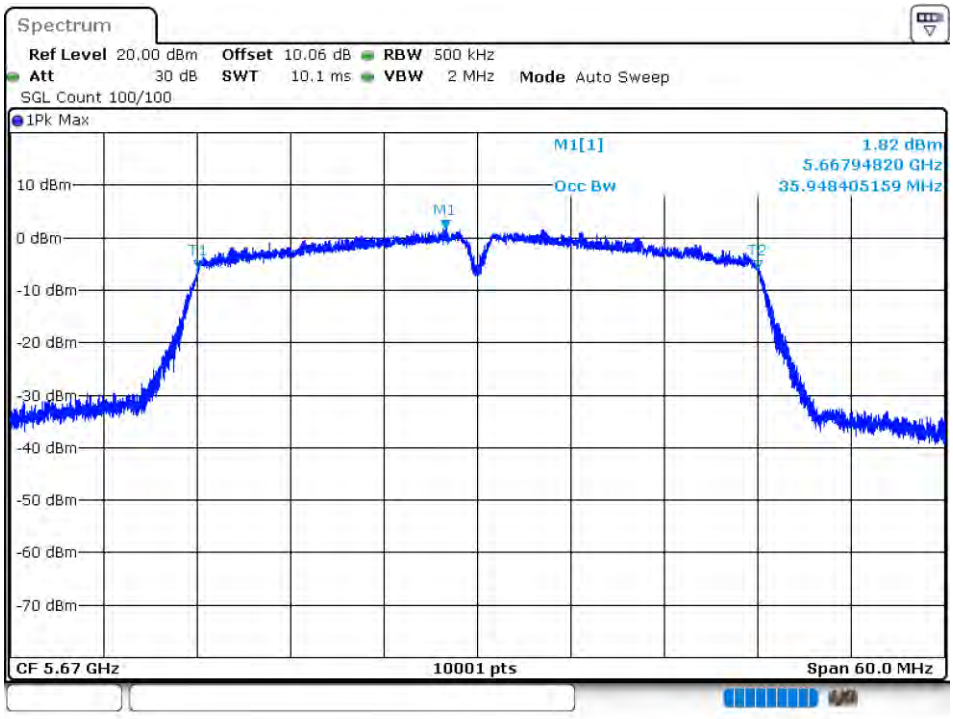
OBW NVNT ac40 5510MHz Ant1



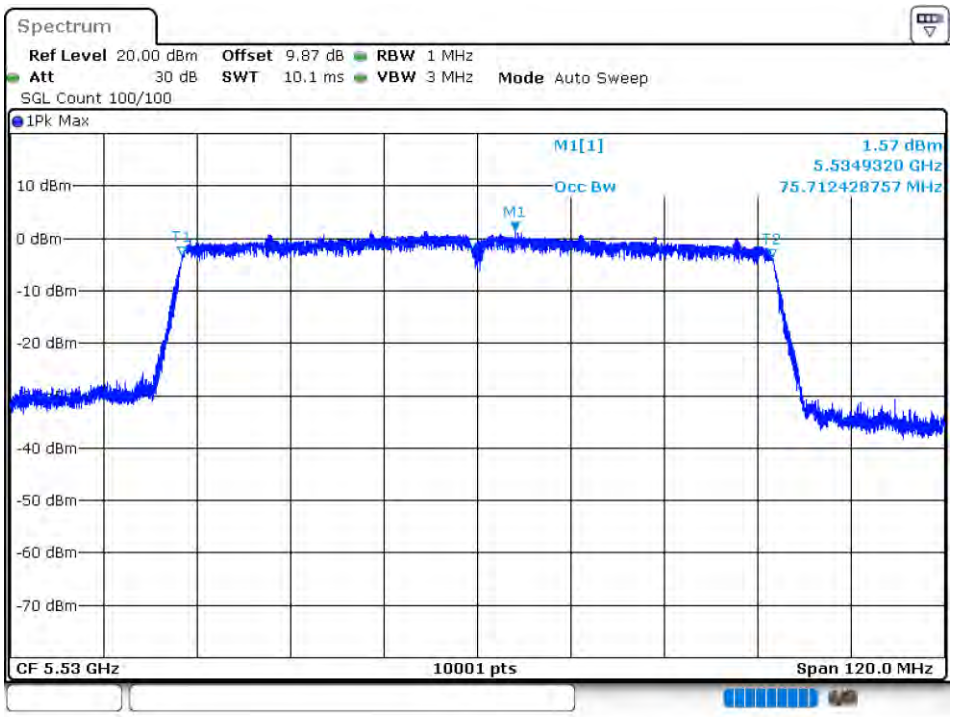
OBW NVNT ac40 5590MHz Ant1



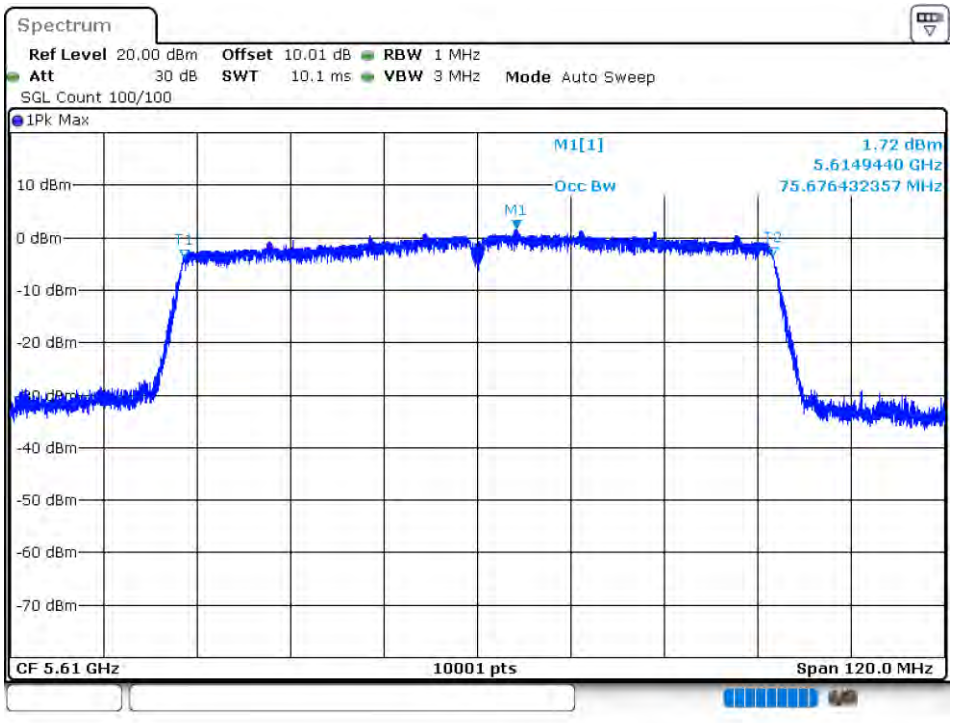
OBW NVNT ac40 5670MHz Ant1



OBW NVNT ac80 5530MHz Ant1



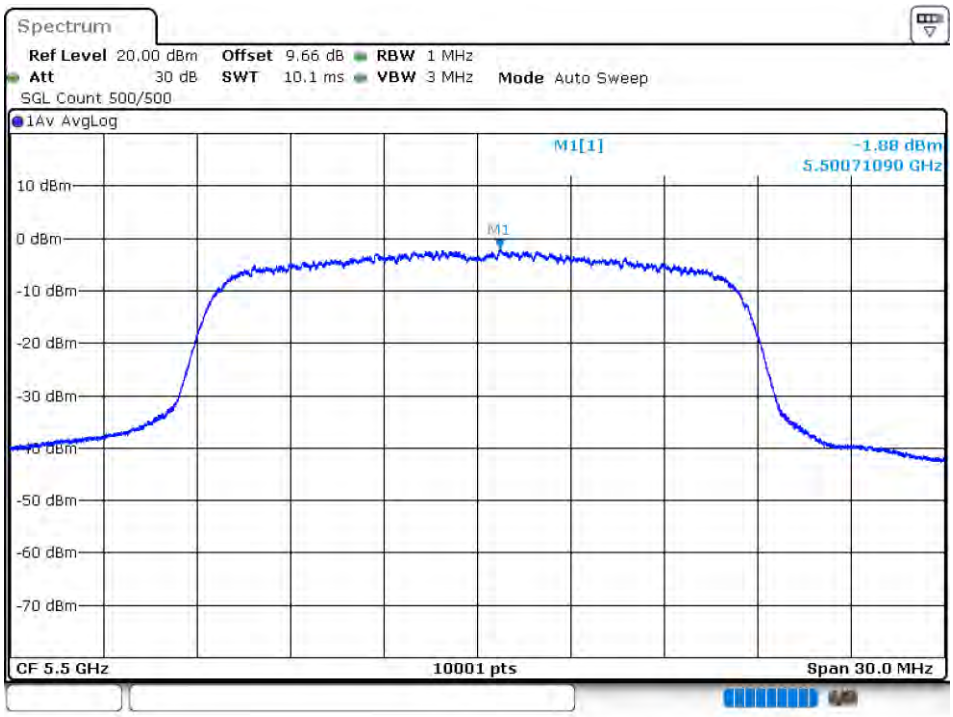
OBW NVNT ac80 5610MHz Ant1



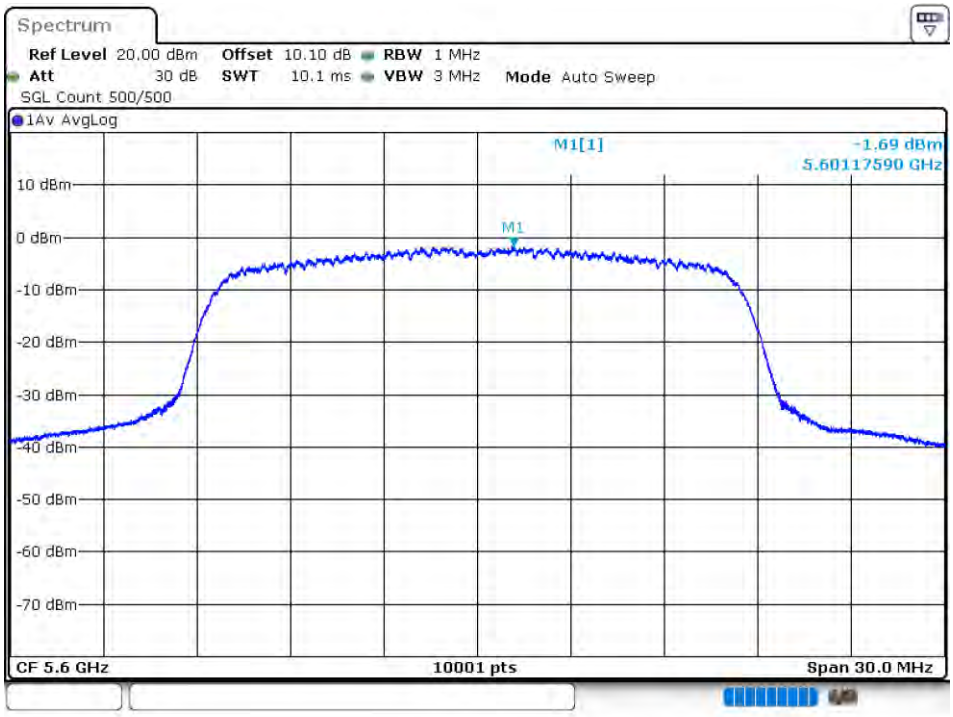
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	-1.88	0.08	-1.8	11	Pass
NVNT	a	5600	Ant1	-1.69	0.08	-1.61	11	Pass
NVNT	a	5700	Ant1	-1.57	0.08	-1.49	11	Pass
NVNT	n20	5500	Ant1	-2.88	0.09	-2.79	11	Pass
NVNT	n20	5600	Ant1	-2	0.09	-1.91	11	Pass
NVNT	n20	5700	Ant1	-2.3	0.09	-2.21	11	Pass
NVNT	n40	5510	Ant1	-6.22	0.17	-6.05	11	Pass
NVNT	n40	5590	Ant1	-5.98	0.17	-5.81	11	Pass
NVNT	n40	5670	Ant1	-5.68	0.17	-5.51	11	Pass
NVNT	ac20	5500	Ant1	-2.79	0.09	-2.7	11	Pass
NVNT	ac20	5600	Ant1	-2.23	0.09	-2.14	11	Pass
NVNT	ac20	5700	Ant1	-2.05	0.09	-1.96	11	Pass
NVNT	ac40	5510	Ant1	-5.34	0.17	-5.17	11	Pass
NVNT	ac40	5590	Ant1	-6.43	0.17	-6.26	11	Pass
NVNT	ac40	5670	Ant1	-5.73	0.17	-5.56	11	Pass
NVNT	ac80	5530	Ant1	-11.71	0.33	-11.38	11	Pass
NVNT	ac80	5610	Ant1	-11.78	0.33	-11.45	11	Pass

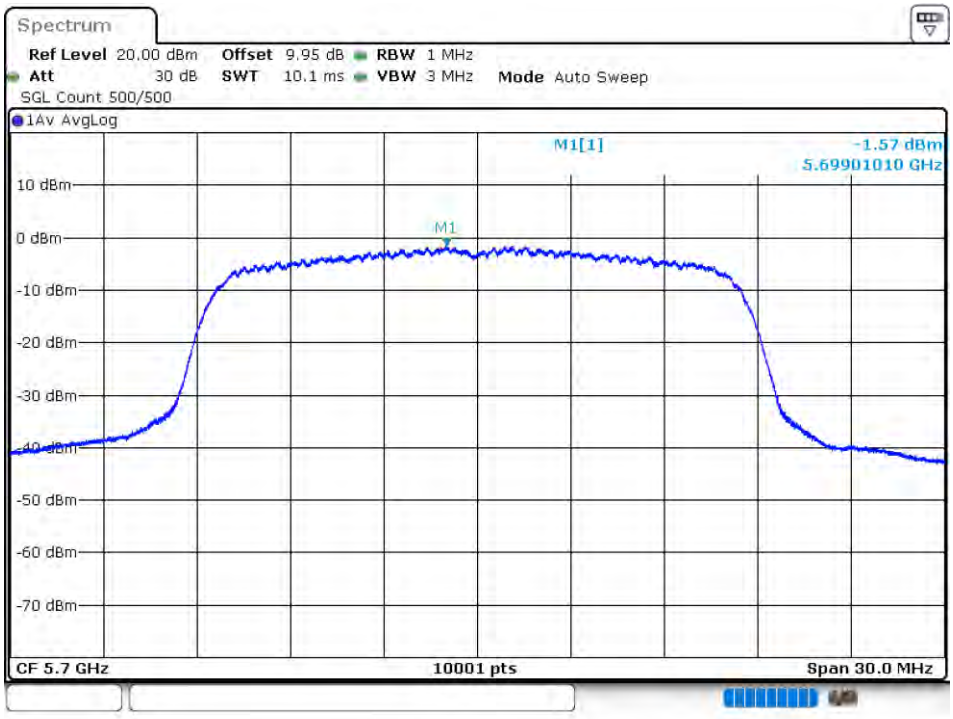
Test Graphs
PSD NVNT a 5500MHz Ant1



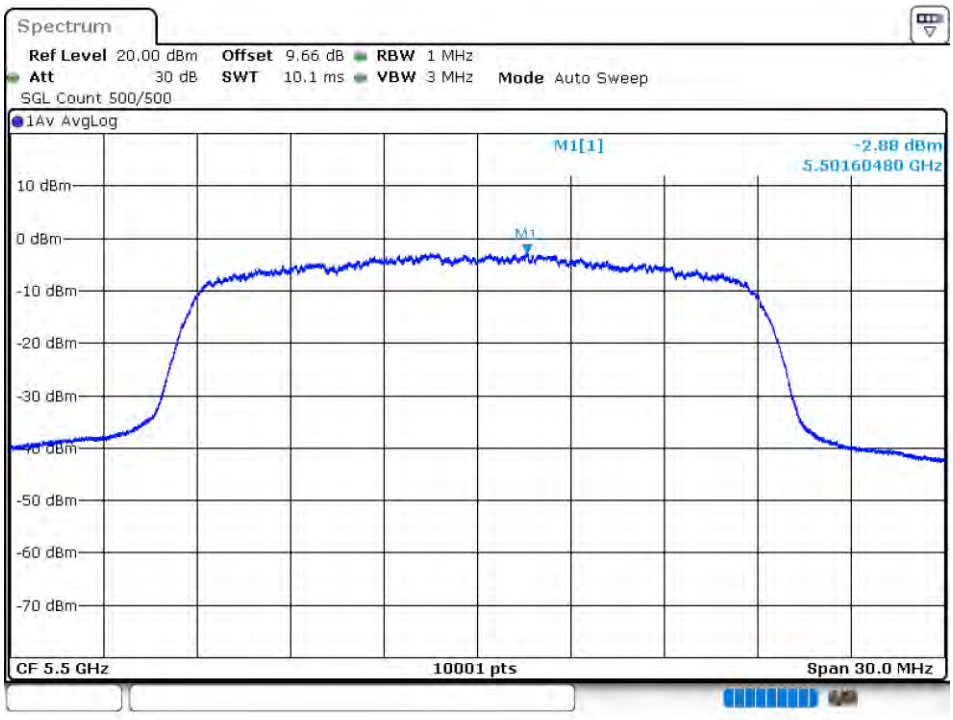
PSD NVNT a 5600MHz Ant1



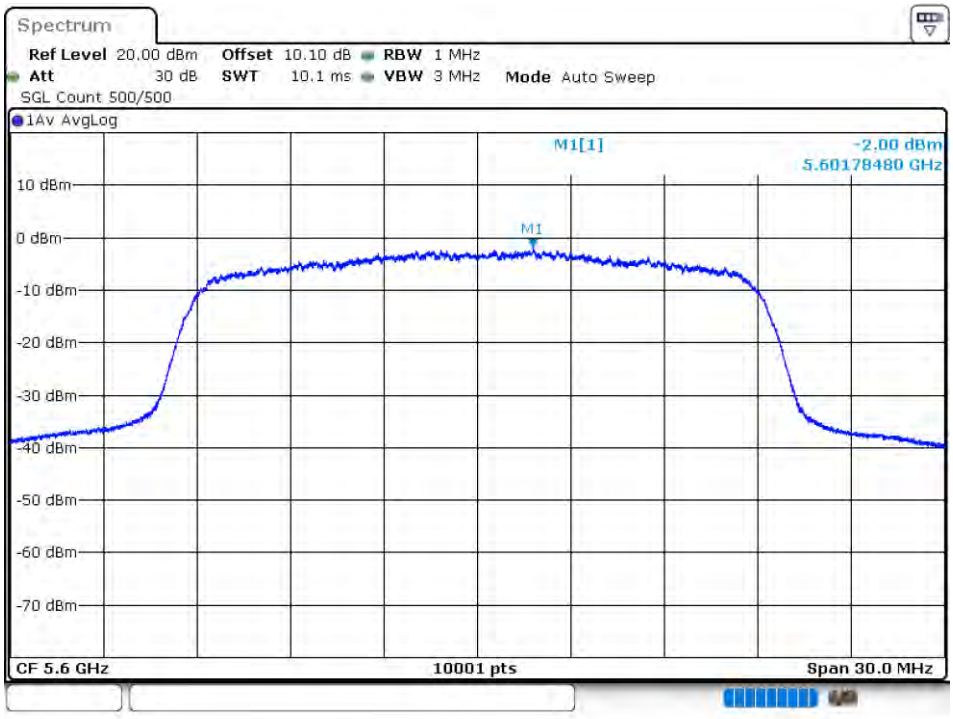
PSD NVNT a 5700MHz Ant1



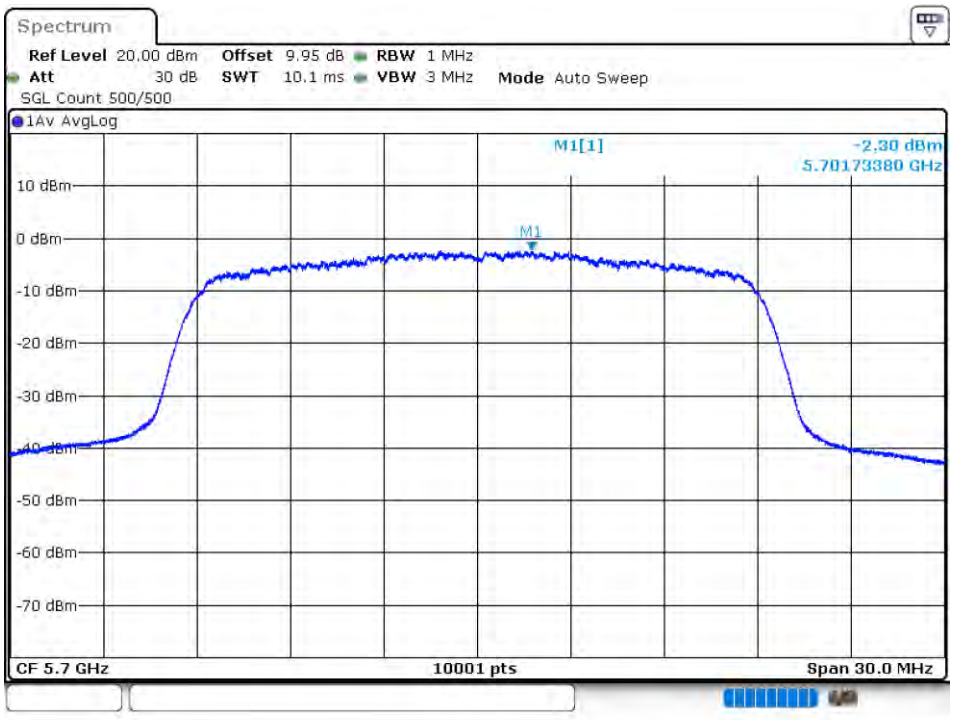
PSD NVNT n20 5500MHz Ant1



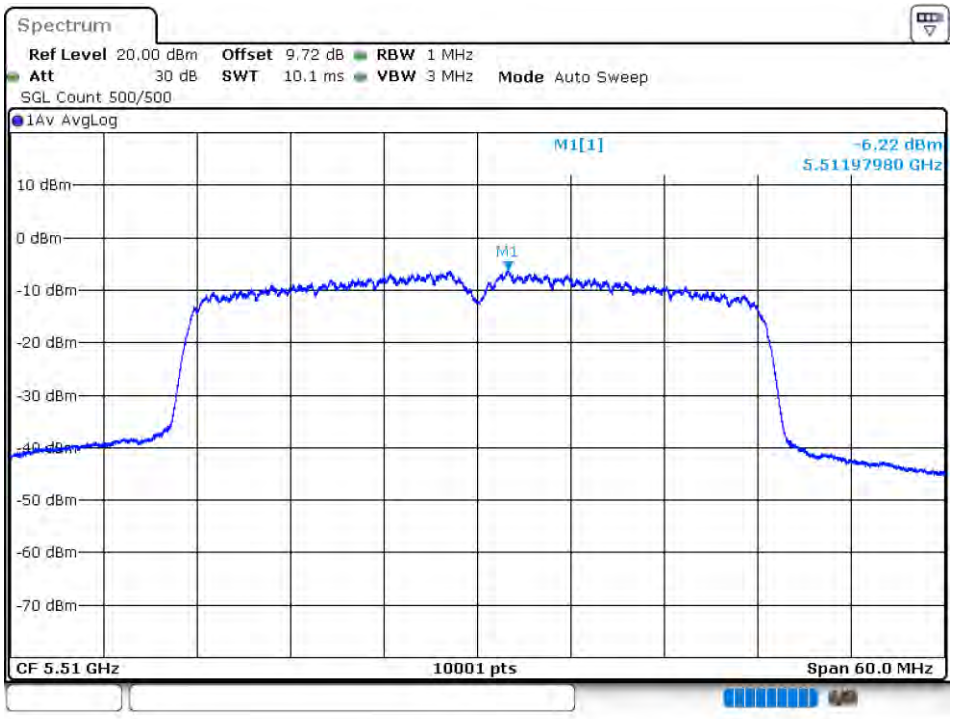
PSD NVNT n20 5600MHz Ant1



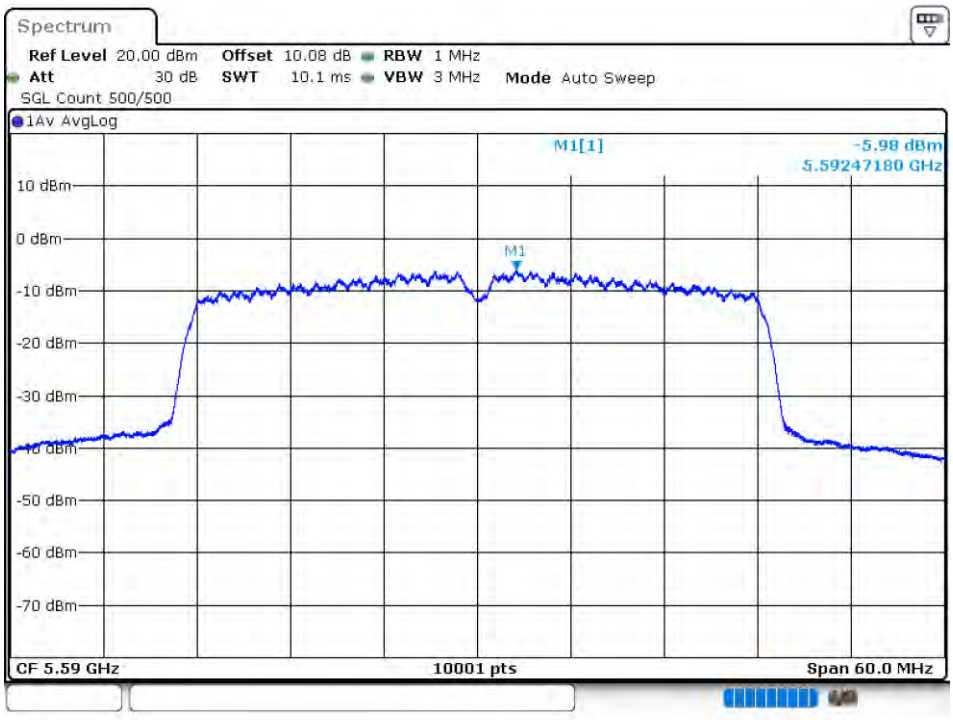
PSD NVNT n20 5700MHz Ant1



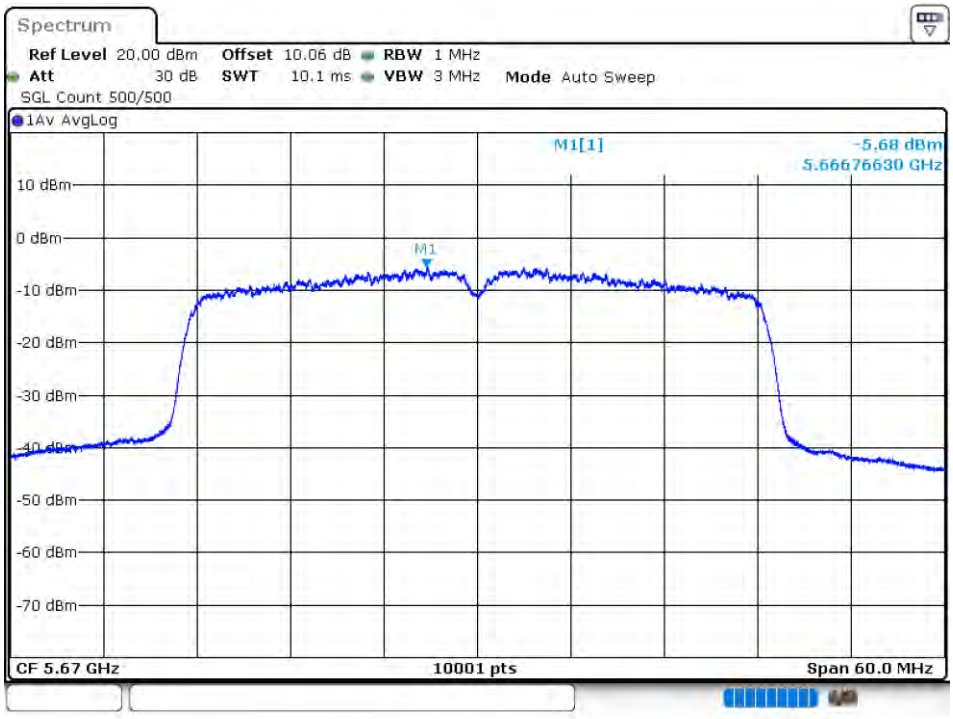
PSD NVNT n40 5510MHz Ant1



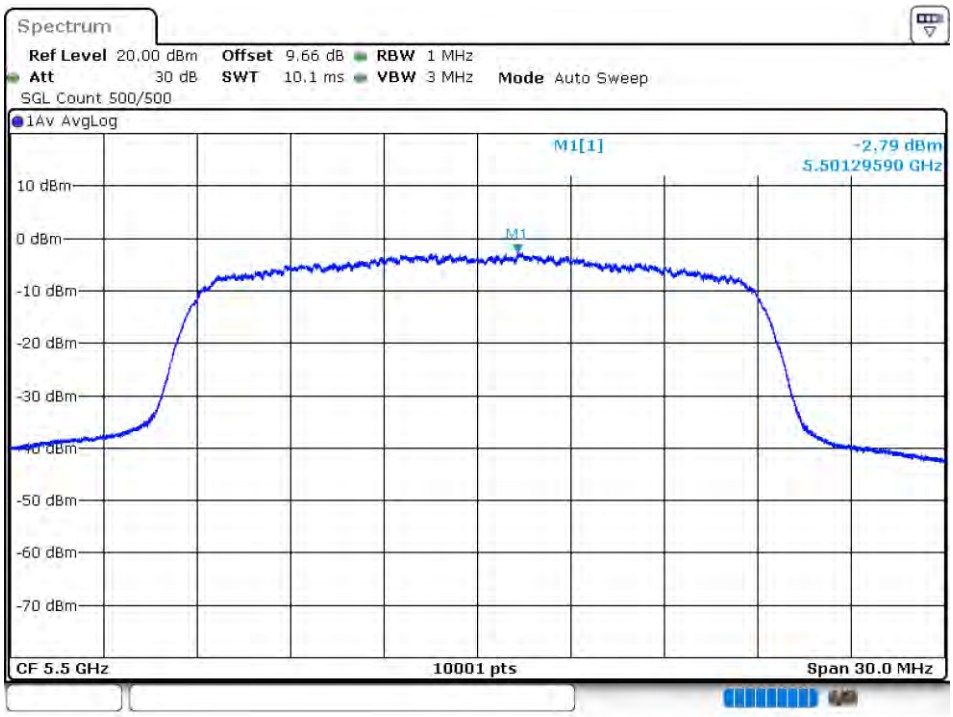
PSD NVNT n40 5590MHz Ant1



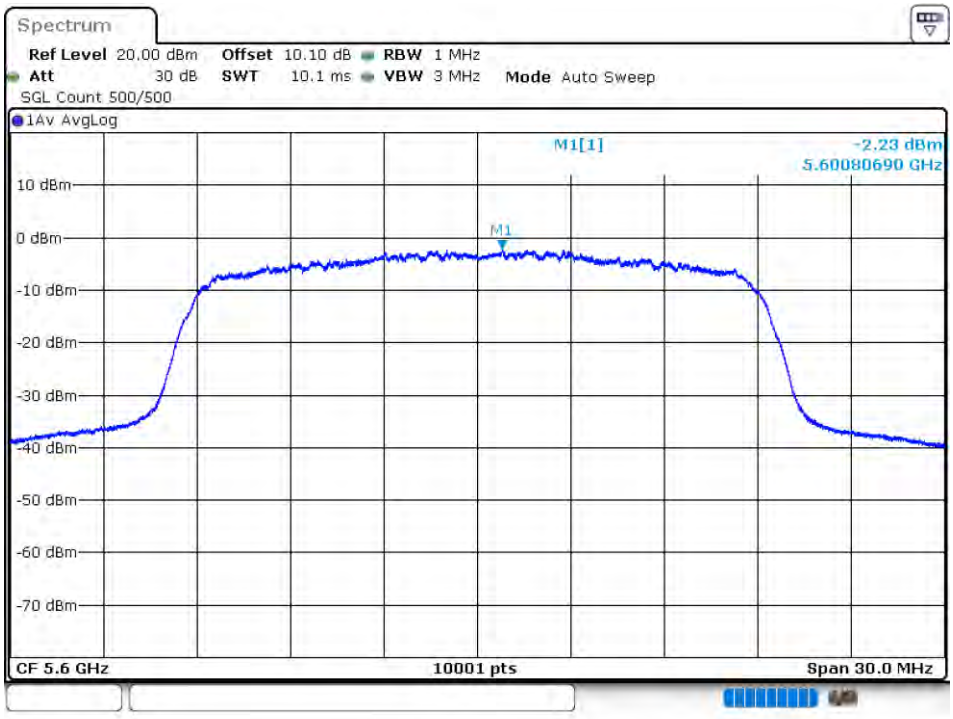
PSD NVNT n40 5670MHz Ant1



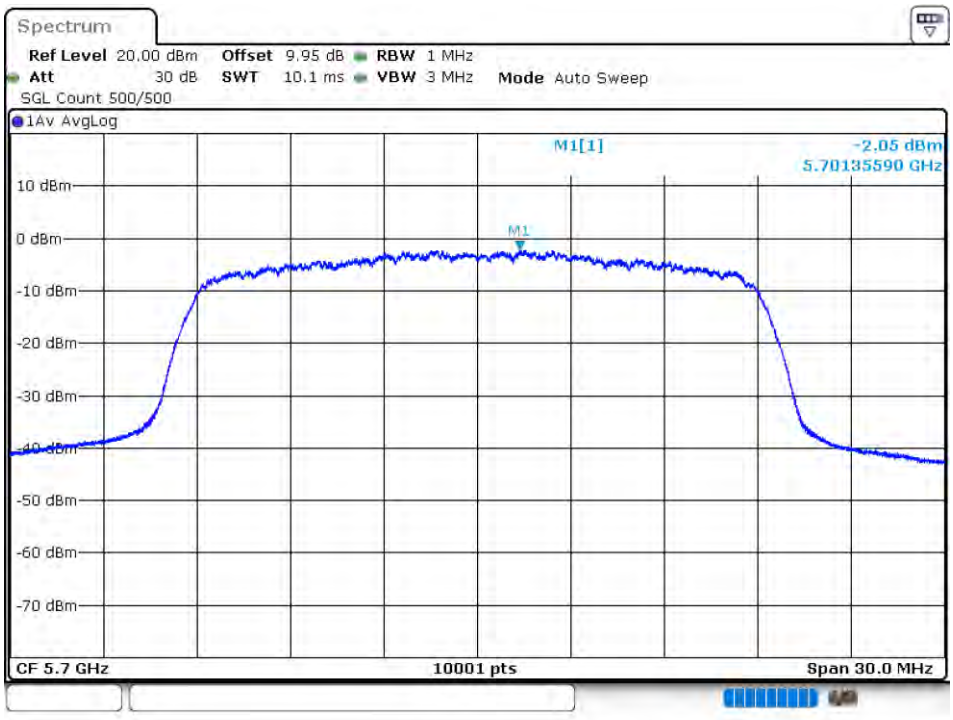
PSD NVNT ac20 5500MHz Ant1



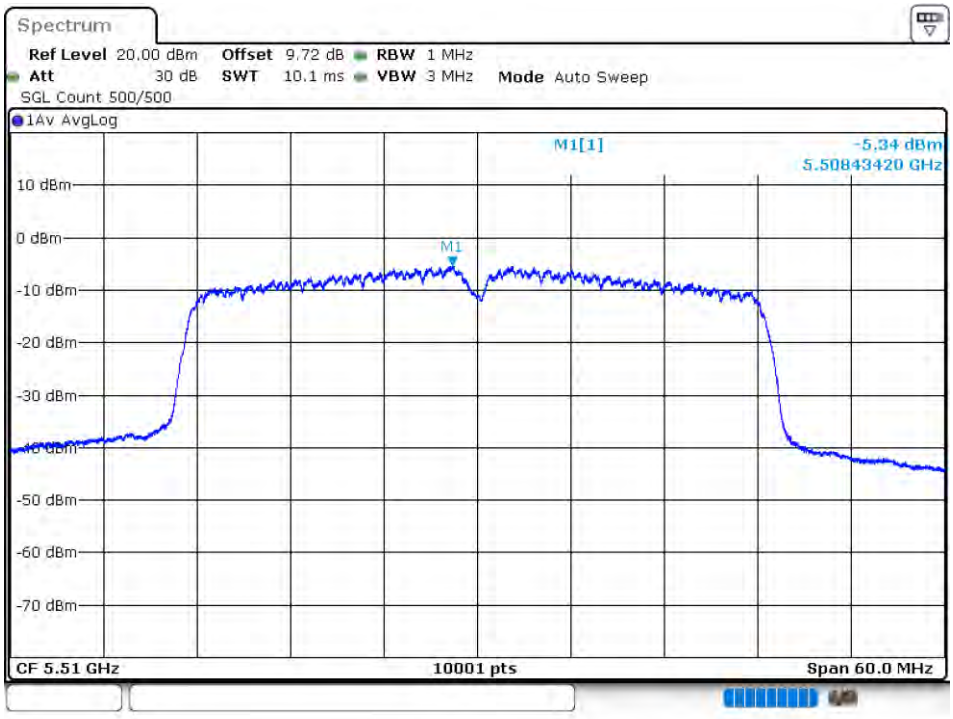
PSD NVNT ac20 5600MHz Ant1



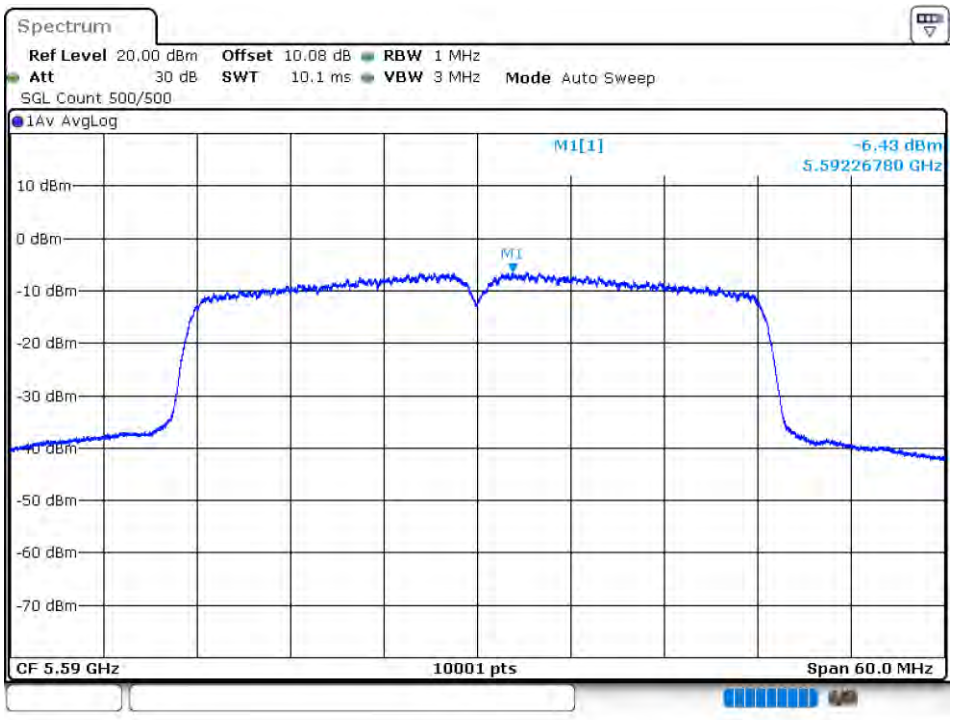
PSD NVNT ac20 5700MHz Ant1



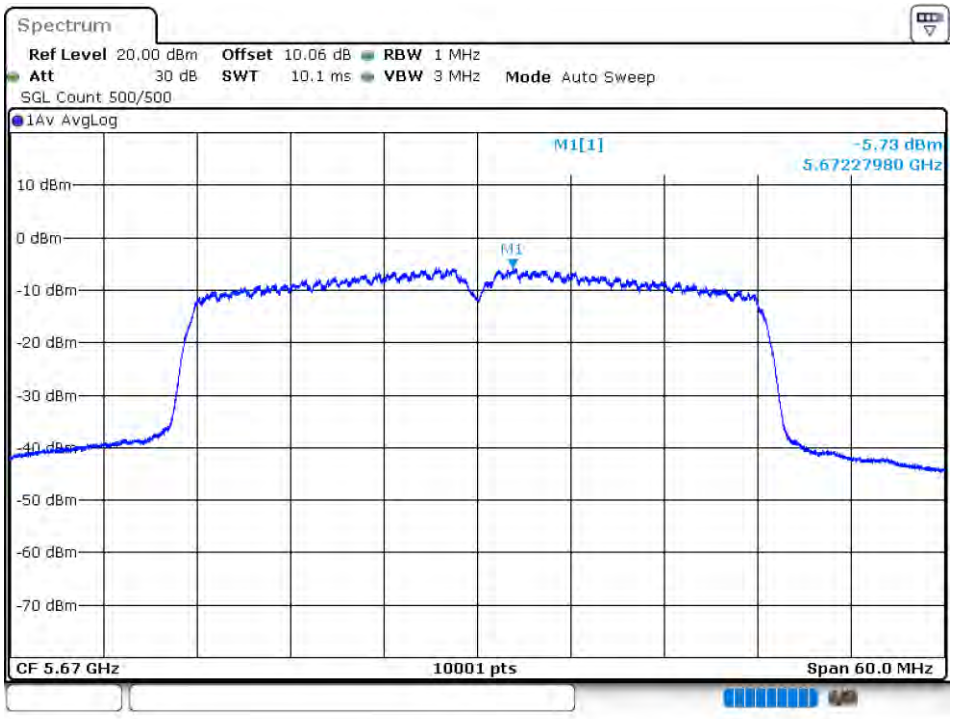
PSD NVNT ac40 5510MHz Ant1



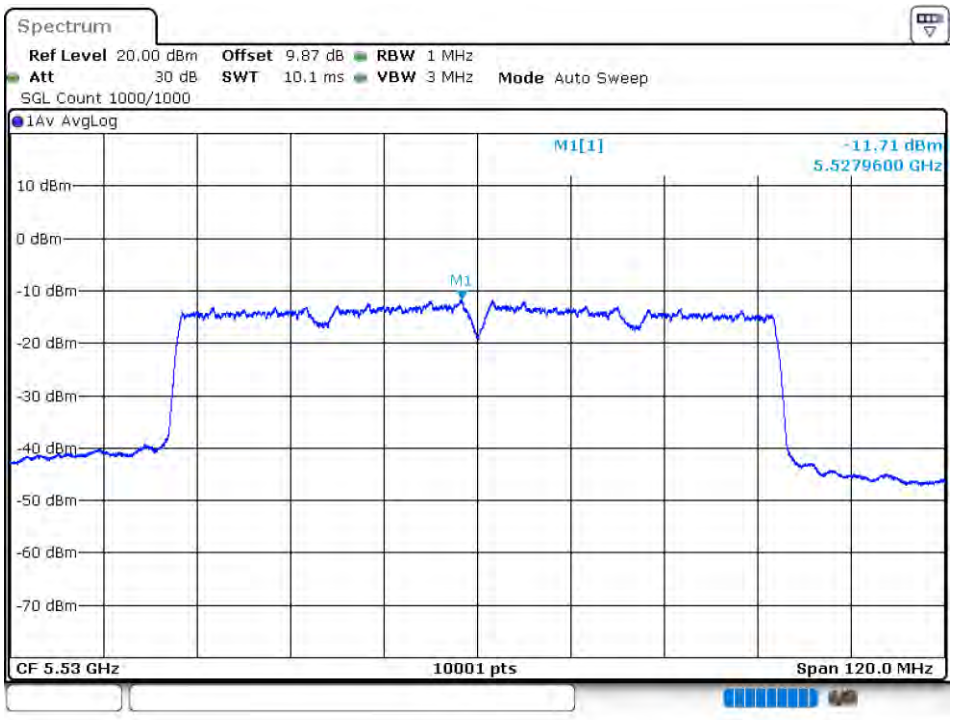
PSD NVNT ac40 5590MHz Ant1



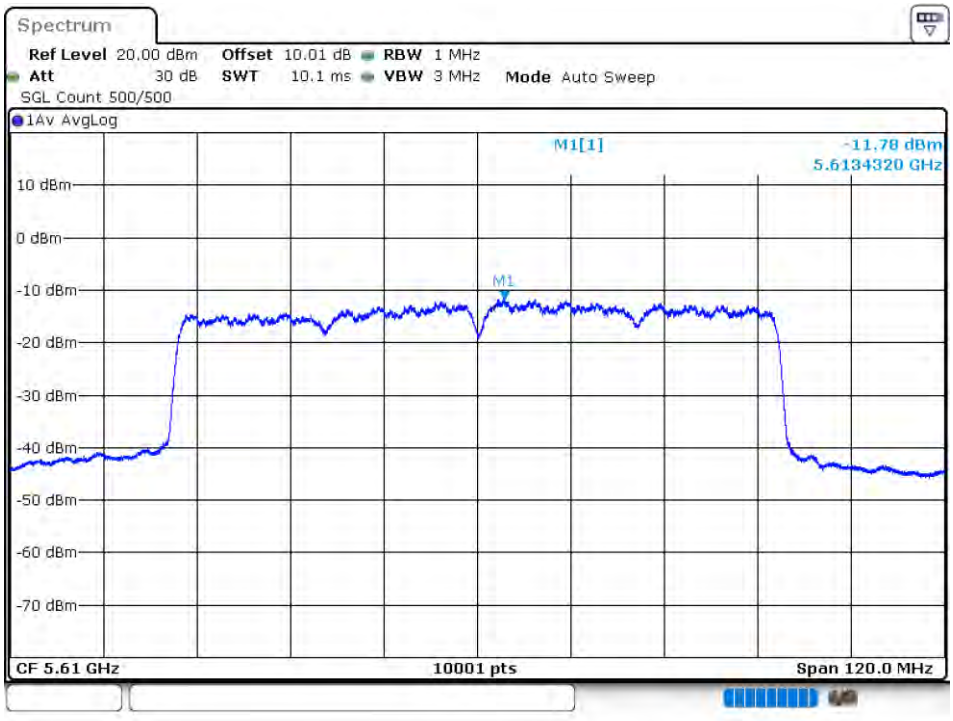
PSD NVNT ac40 5670MHz Ant1



PSD NVNT ac80 5530MHz Ant1



PSD NVNT ac80 5610MHz Ant1



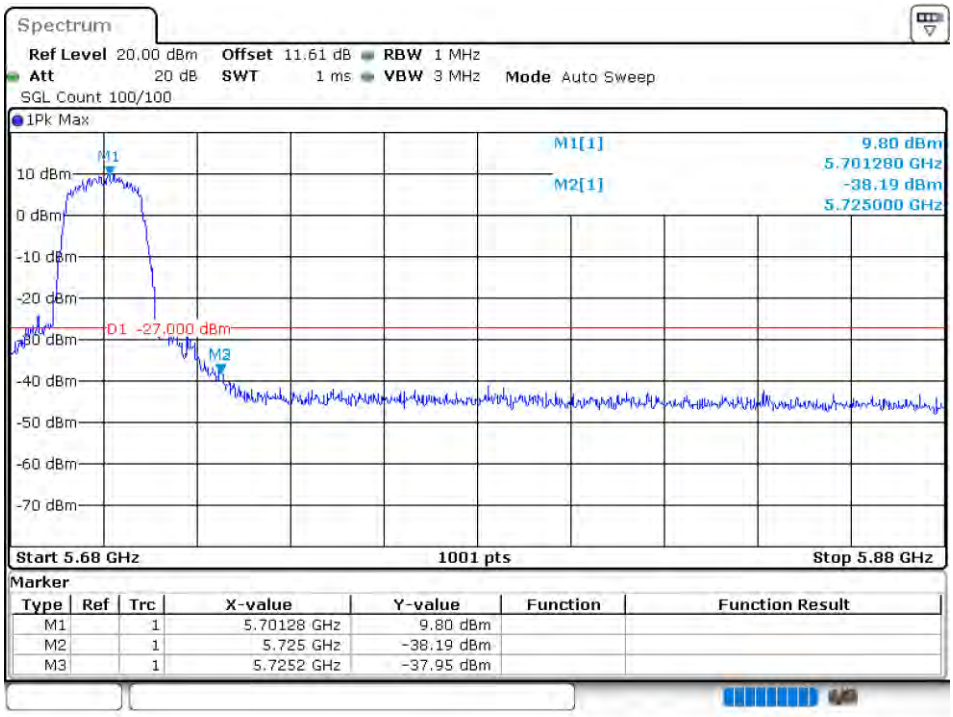
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	Ant1	-40.04	-27	Pass
NVNT	a	5700	Ant1	-37.94	-27	Pass
NVNT	n20	5500	Ant1	-38.26	-27	Pass
NVNT	n20	5700	Ant1	-36.22	-27	Pass
NVNT	n40	5510	Ant1	-32.41	-27	Pass
NVNT	n40	5670	Ant1	-40.23	-27	Pass
NVNT	ac20	5500	Ant1	-39.8	-27	Pass
NVNT	ac20	5700	Ant1	-34.04	-27	Pass
NVNT	ac40	5510	Ant1	-30.38	-27	Pass
NVNT	ac40	5670	Ant1	-40.41	-27	Pass
NVNT	ac80	5530	Ant1	-27.76	-27	Pass
NVNT	ac80	5610	Ant1	-41.04	-27	Pass

Test Graphs

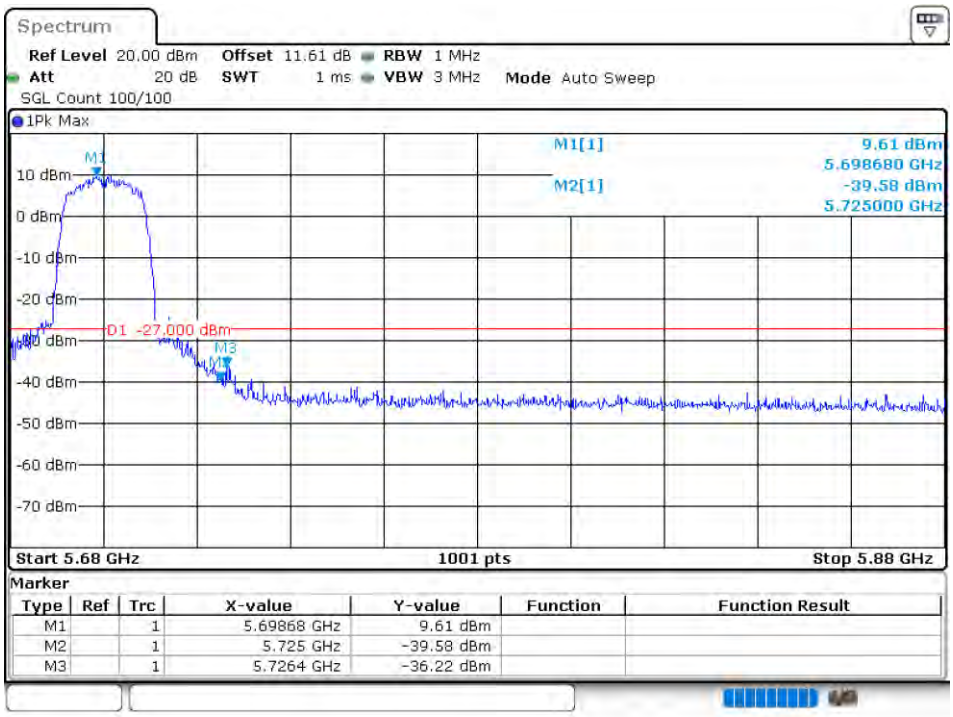
Band Edge NVNT a 5500MHz Low Ant1

Band Edge NVNT a 5700MHz High Ant1

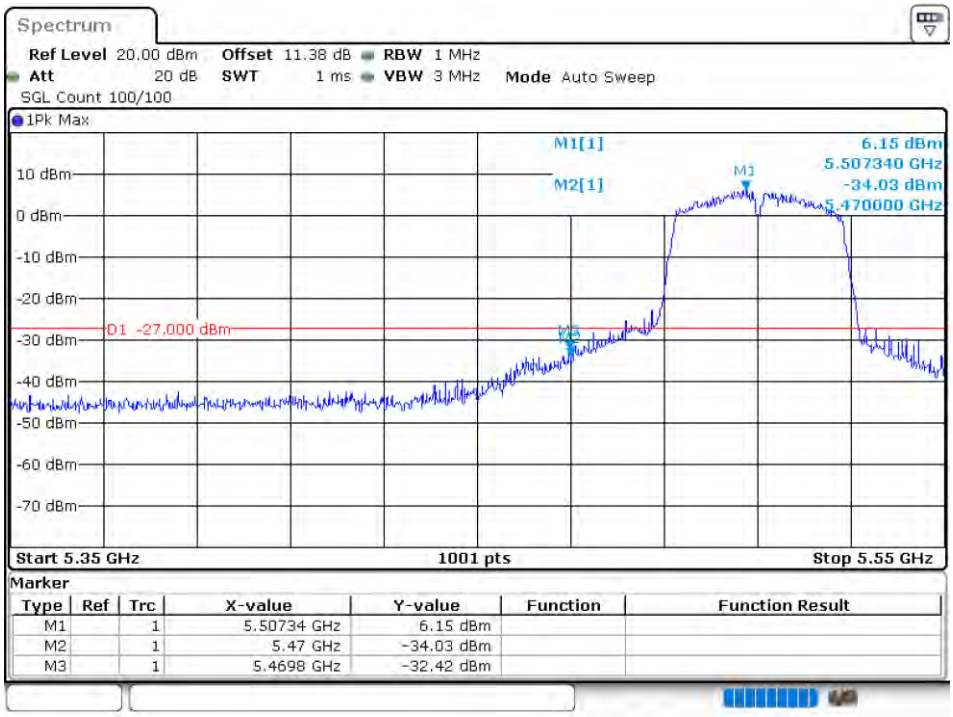


Band Edge NVNT n20 5500MHz Low Ant1

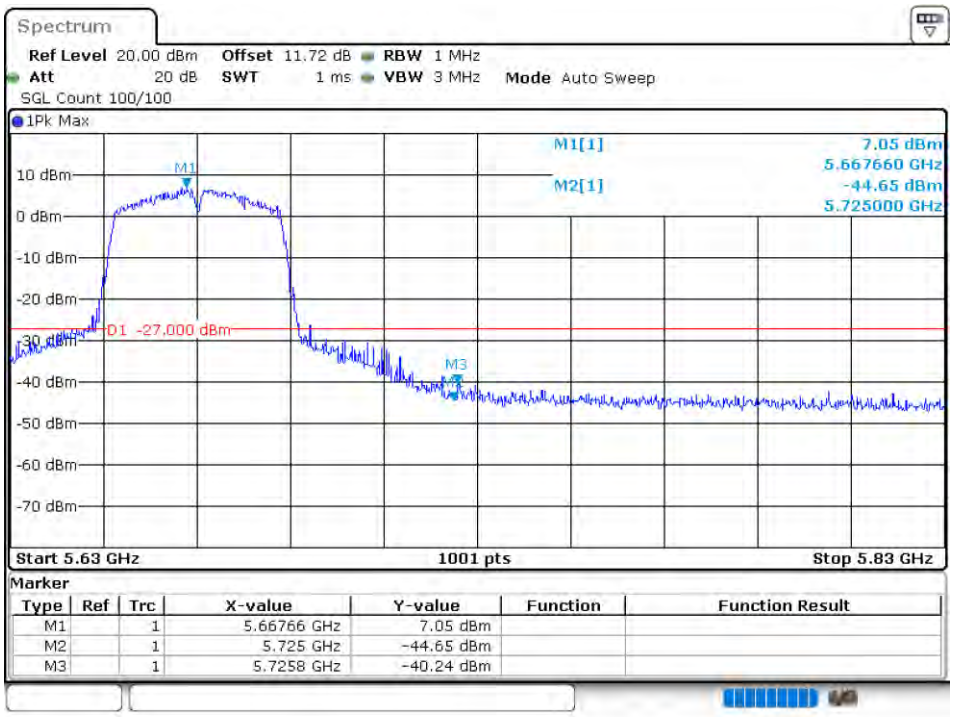
Band Edge NVNT n20 5700MHz High Ant1



Band Edge NVNT n40 5510MHz Low Ant1



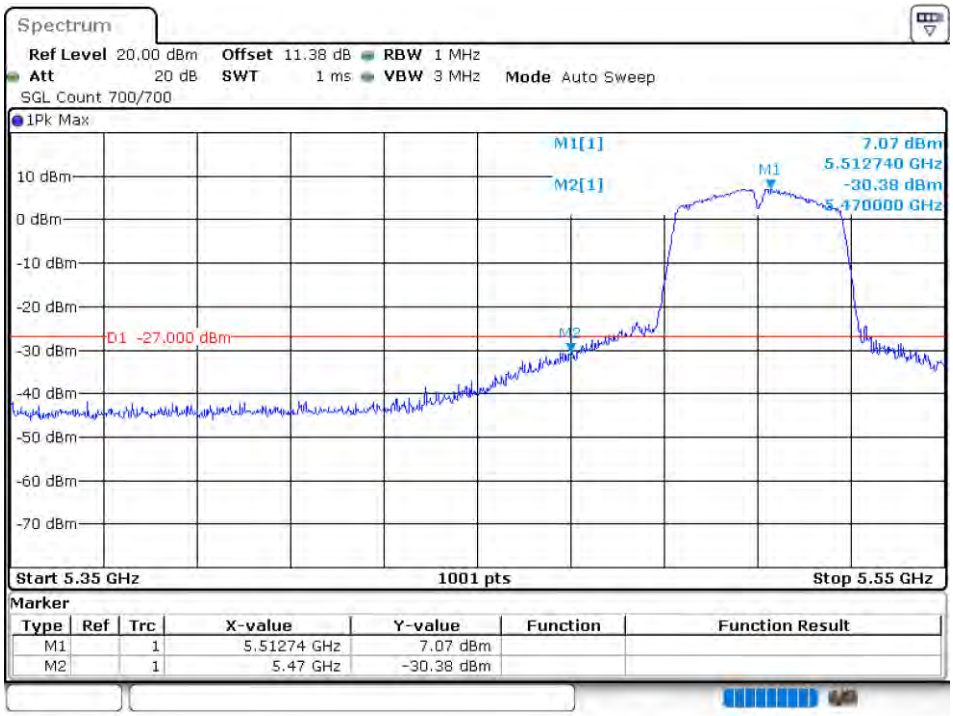
Band Edge NVNT n40 5670MHz High Ant1



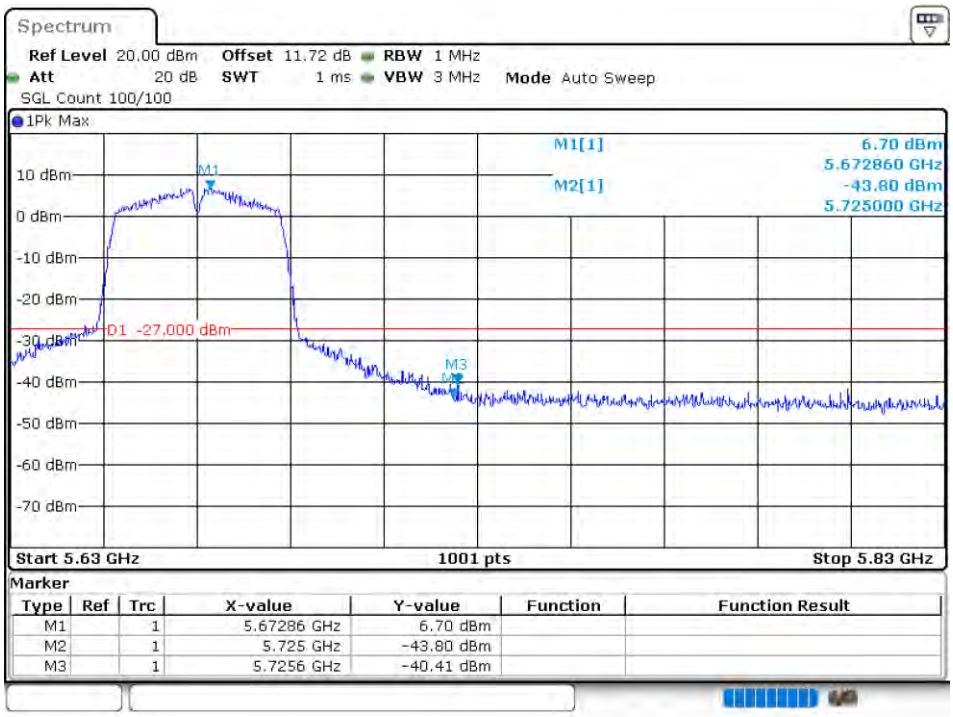
Band Edge NVNT ac20 5500MHz Low Ant1

Band Edge NVNT ac20 5700MHz High Ant1

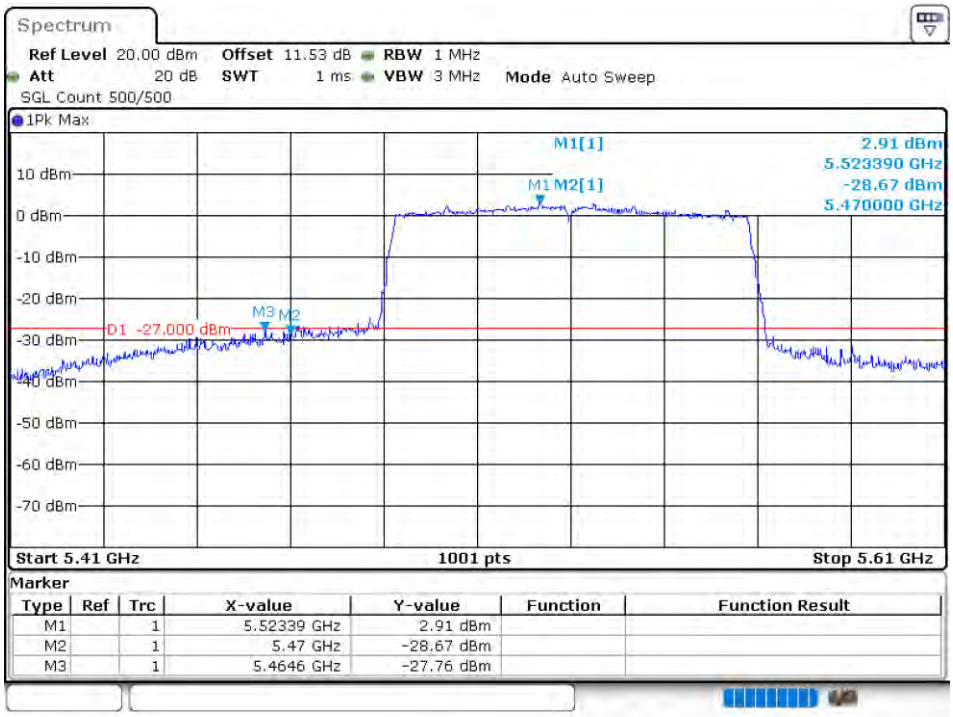
Band Edge NVNT ac40 5510MHz Low Ant1



Band Edge NVNT ac40 5670MHz High Ant1



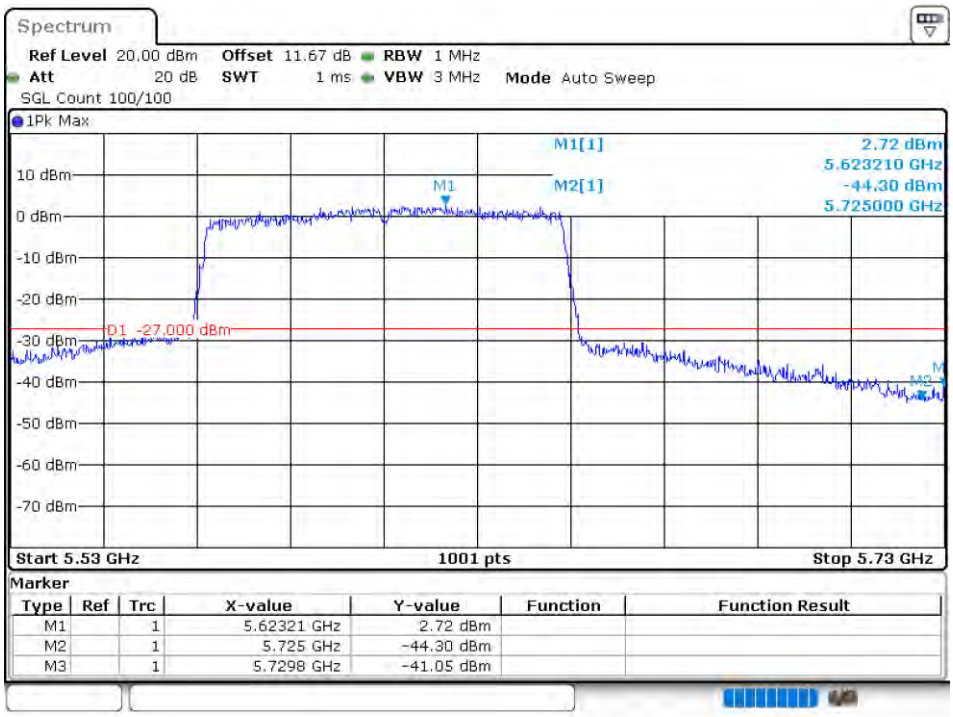
Band Edge NVNT ac80 5530MHz Low Ant1



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.52339 GHz	2.91 dBm		
M2		1	5.47 GHz	-28.67 dBm		
M3		1	5.4646 GHz	-27.76 dBm		

Band Edge NVNT ac80 5610MHz High Ant1



Marker

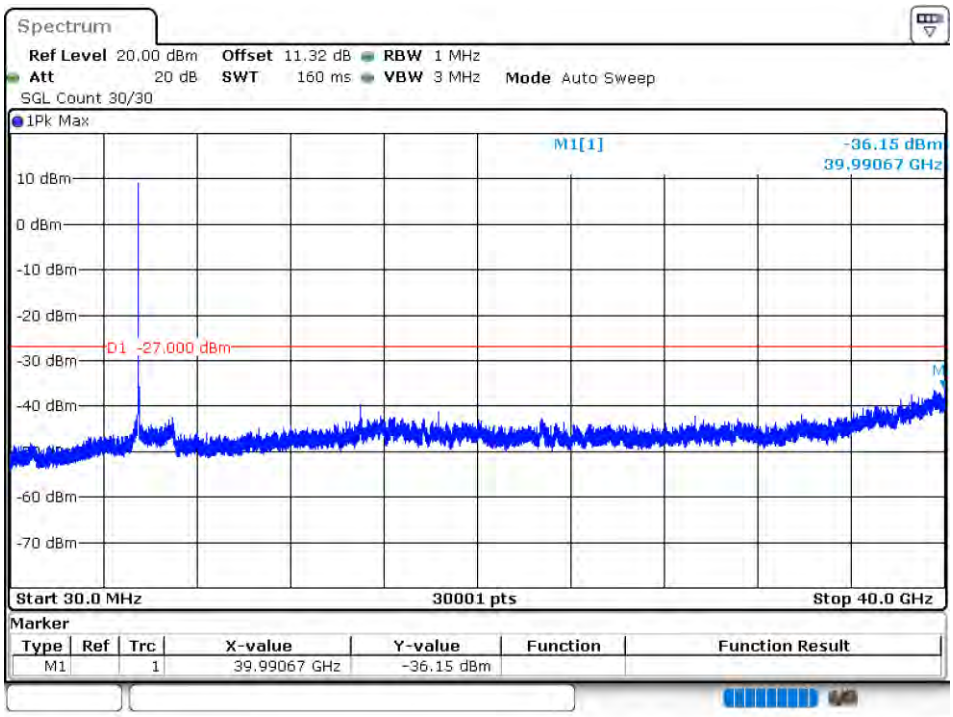
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.62321 GHz	2.72 dBm		
M2		1	5.725 GHz	-44.30 dBm		
M3		1	5.7298 GHz	-41.05 dBm		

Conducted RF Spurious Emission

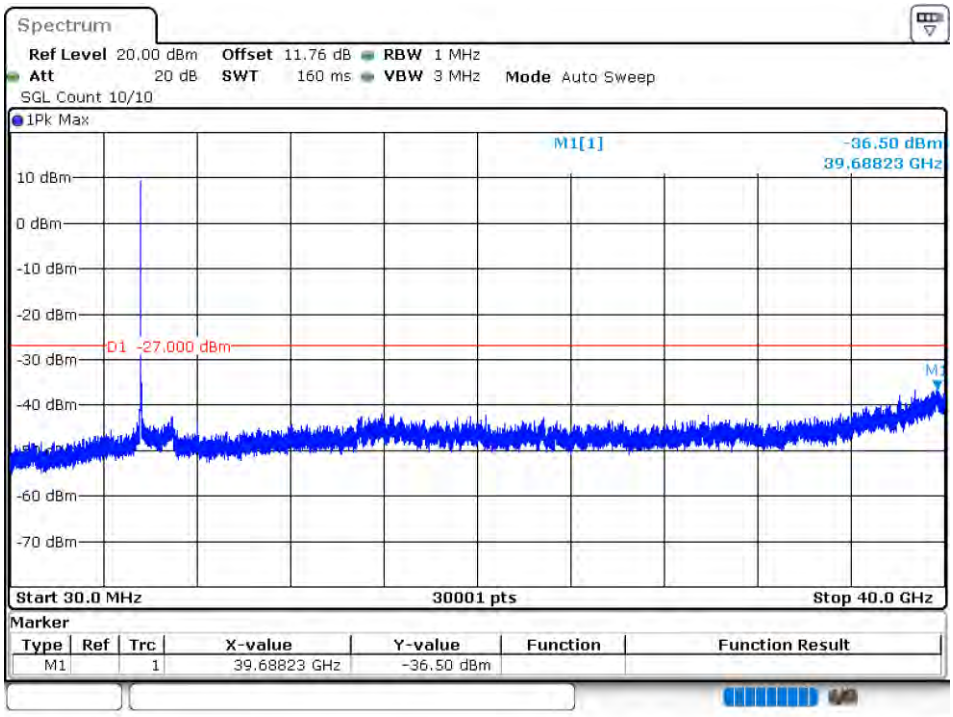
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	a	5500	Ant1	-36.14	-27	Pass
NVNT	a	5600	Ant1	-36.5	-27	Pass
NVNT	a	5700	Ant1	-35.72	-27	Pass
NVNT	n20	5500	Ant1	-36.1	-27	Pass
NVNT	n20	5600	Ant1	-35.51	-27	Pass
NVNT	n20	5700	Ant1	-35.81	-27	Pass
NVNT	n40	5510	Ant1	-36.76	-27	Pass
NVNT	n40	5590	Ant1	-36.06	-27	Pass
NVNT	n40	5670	Ant1	-36.21	-27	Pass
NVNT	ac20	5500	Ant1	-36.1	-27	Pass
NVNT	ac20	5600	Ant1	-36.7	-27	Pass
NVNT	ac20	5700	Ant1	-35.76	-27	Pass
NVNT	ac40	5510	Ant1	-36.95	-27	Pass
NVNT	ac40	5590	Ant1	-36.79	-27	Pass
NVNT	ac40	5670	Ant1	-36.23	-27	Pass
NVNT	ac80	5530	Ant1	-36.2	-27	Pass
NVNT	ac80	5610	Ant1	-36.57	-27	Pass

Test Graphs

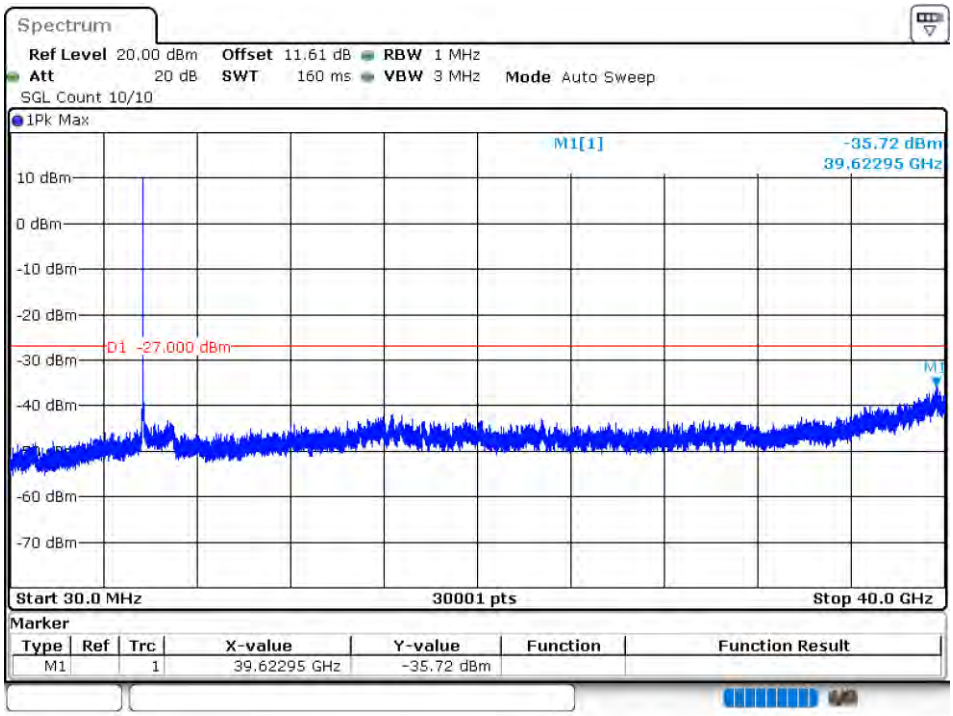
Tx. Spurious NVNT a 5500MHz Ant1 Emission



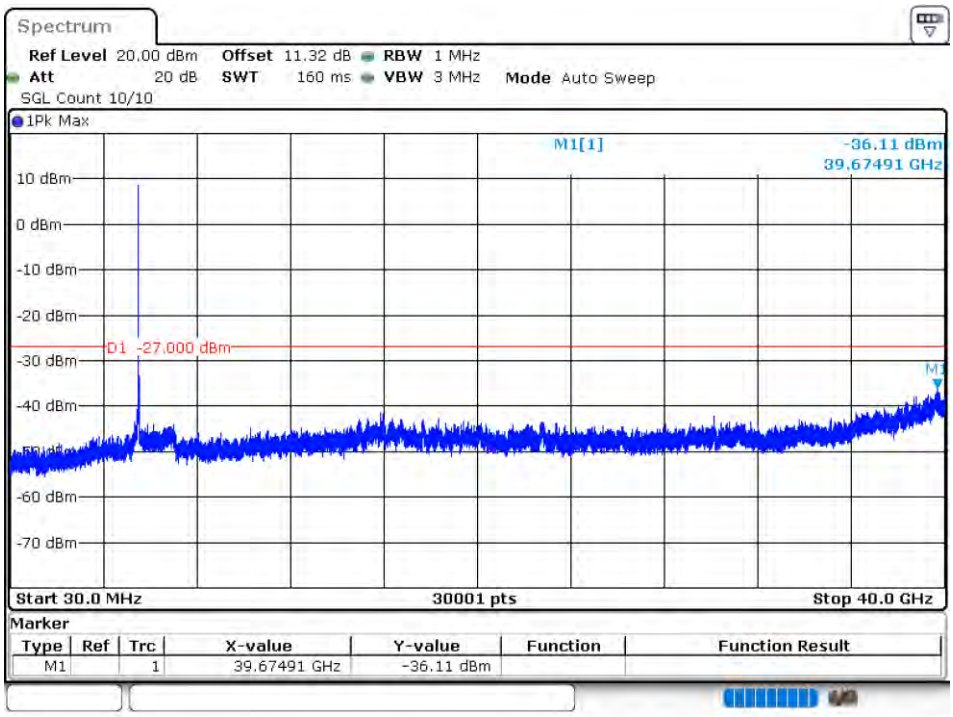
Tx. Spurious NVNT a 5600MHz Ant1 Emission



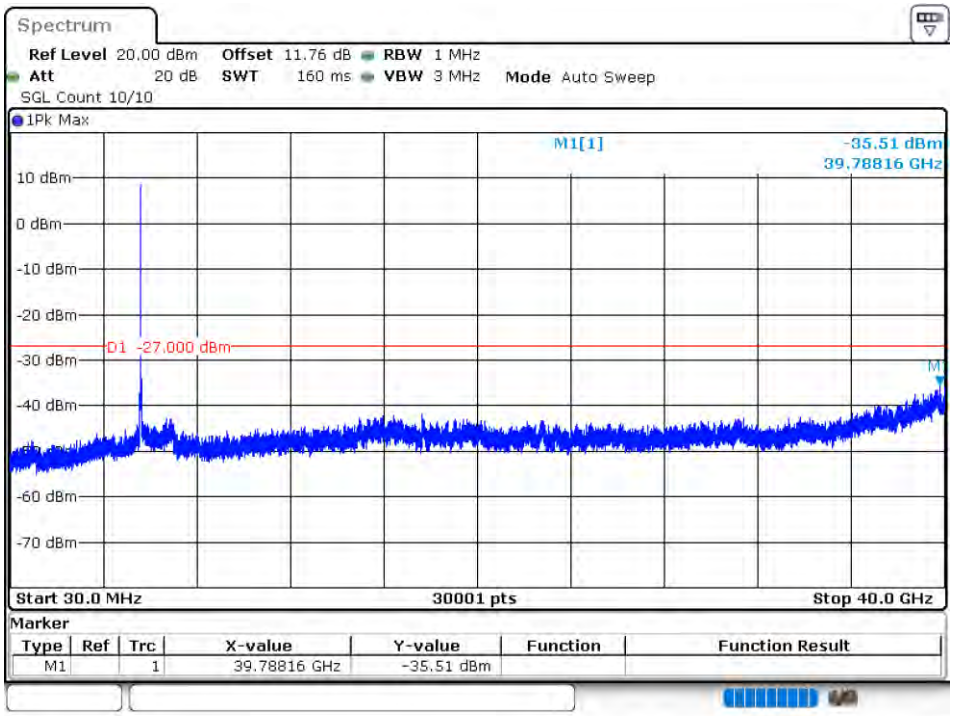
Tx. Spurious NVNT a 5700MHz Ant1 Emission



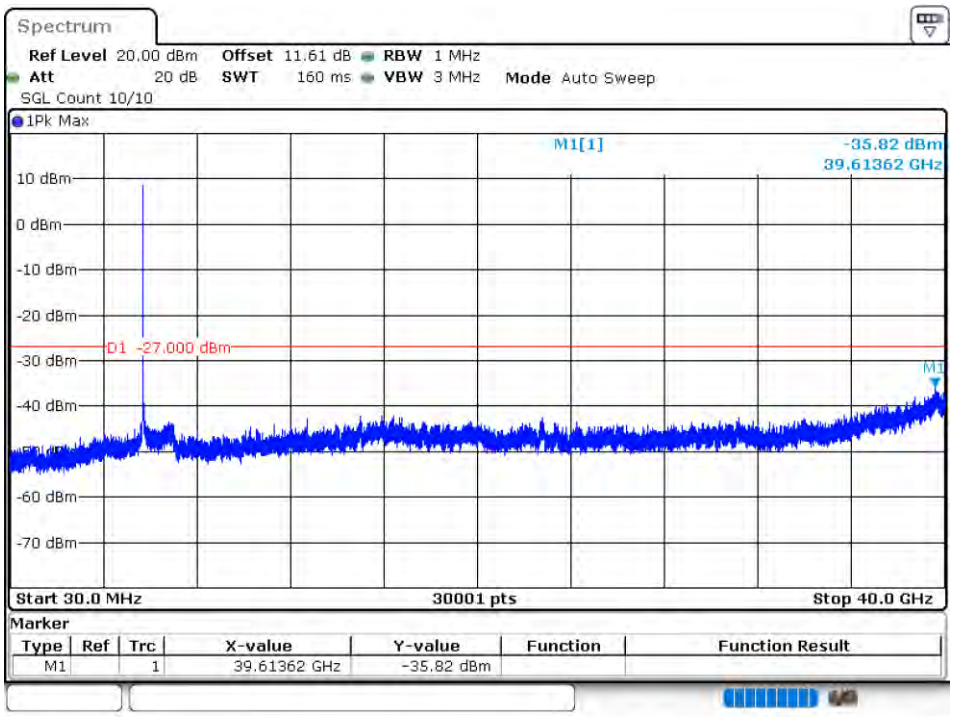
Tx. Spurious NVNT n20 5500MHz Ant1 Emission



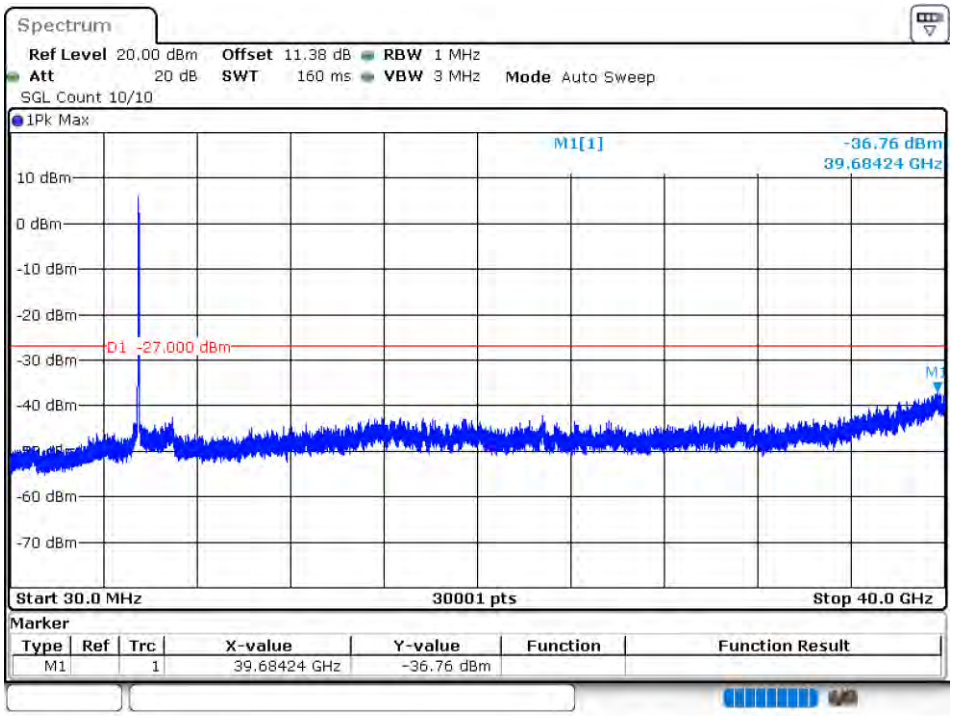
Tx. Spurious NVNT n20 5600MHz Ant1 Emission



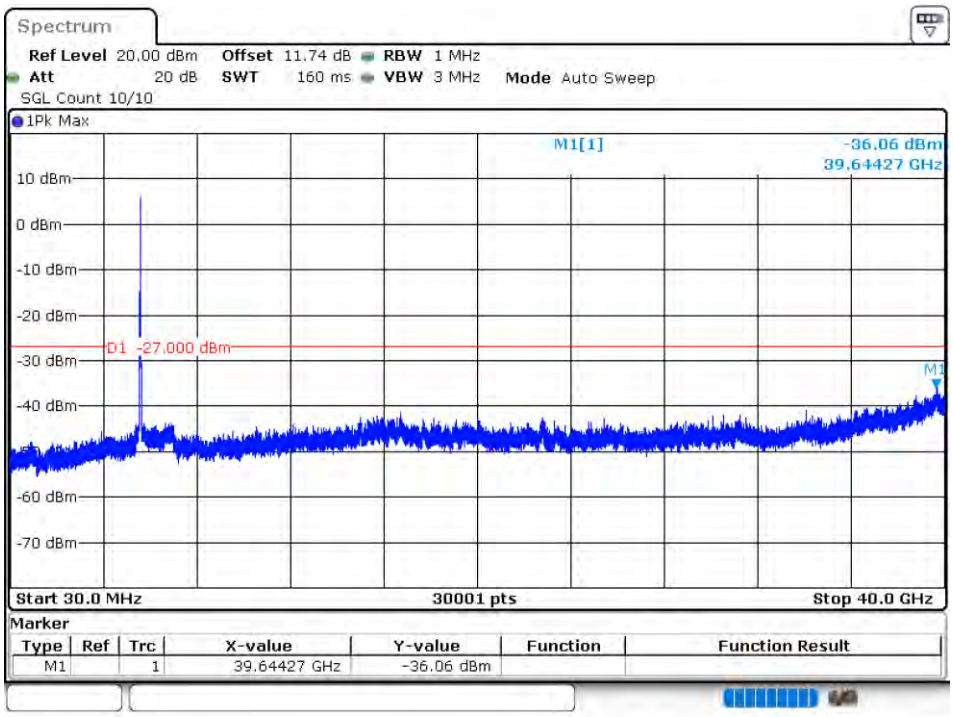
Tx. Spurious NVNT n20 5700MHz Ant1 Emission



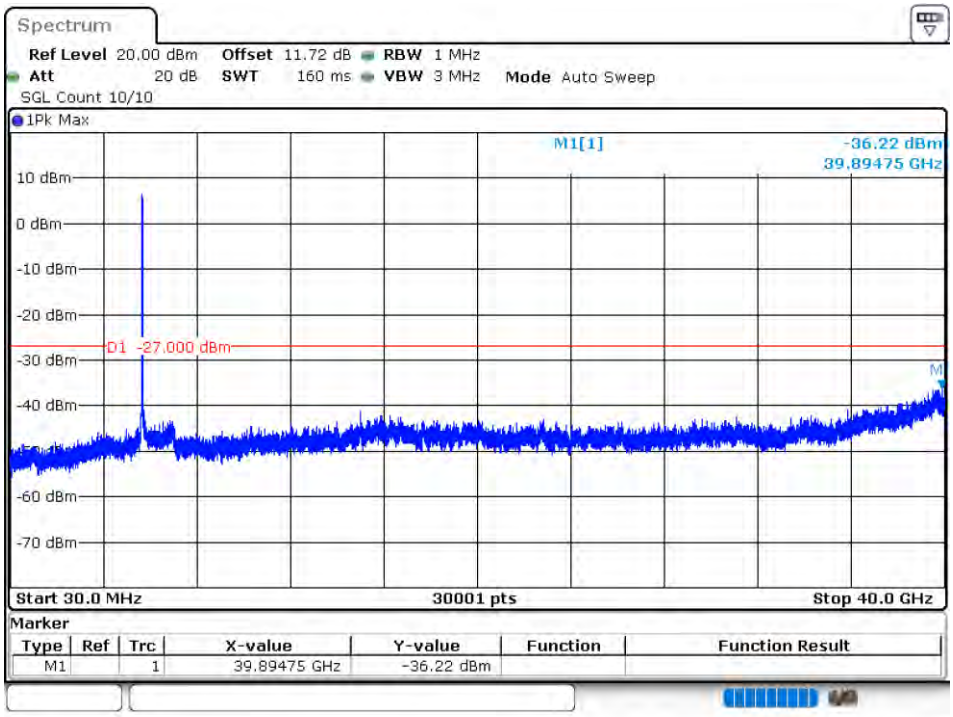
Tx. Spurious NVNT n40 5510MHz Ant1 Emission



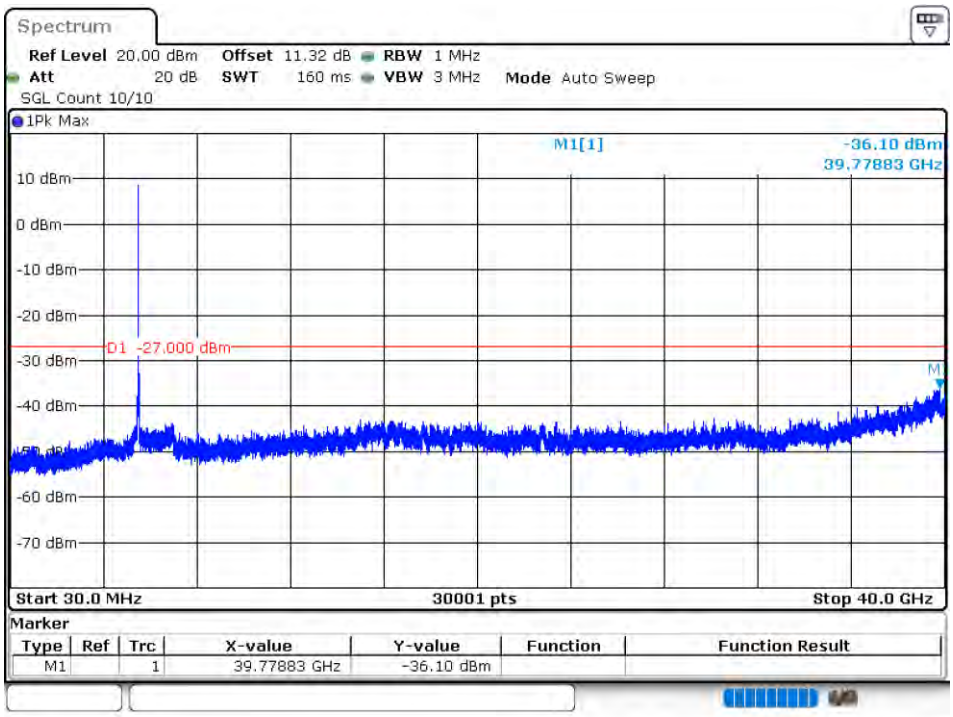
Tx. Spurious NVNT n40 5590MHz Ant1 Emission



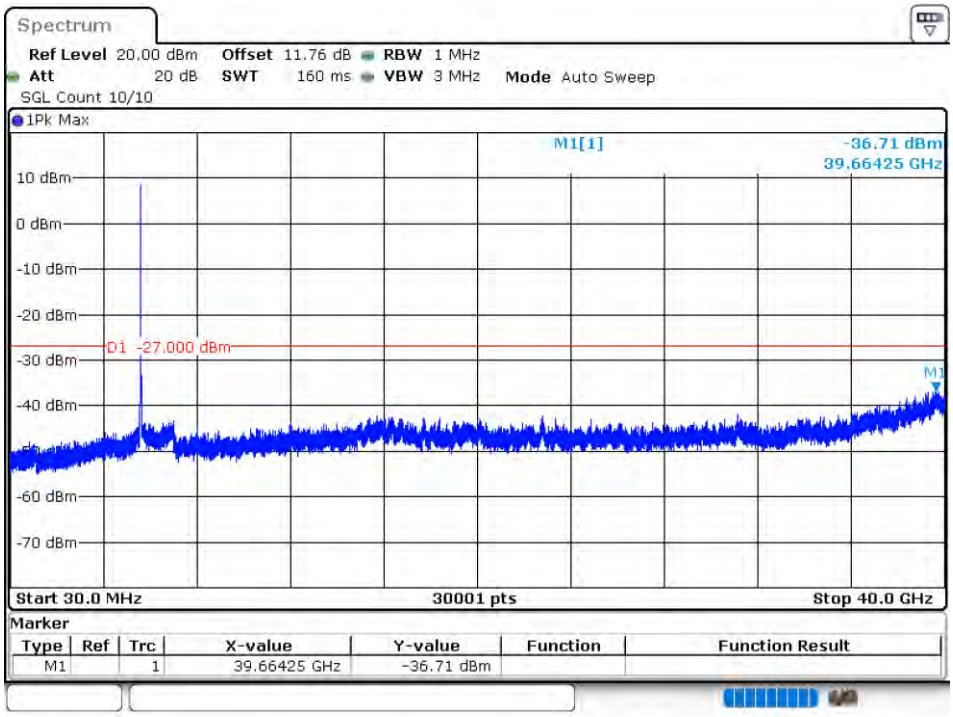
Tx. Spurious NVNT n40 5670MHz Ant1 Emission



Tx. Spurious NVNT ac20 5500MHz Ant1 Emission



Tx. Spurious NVNT ac20 5600MHz Ant1 Emission



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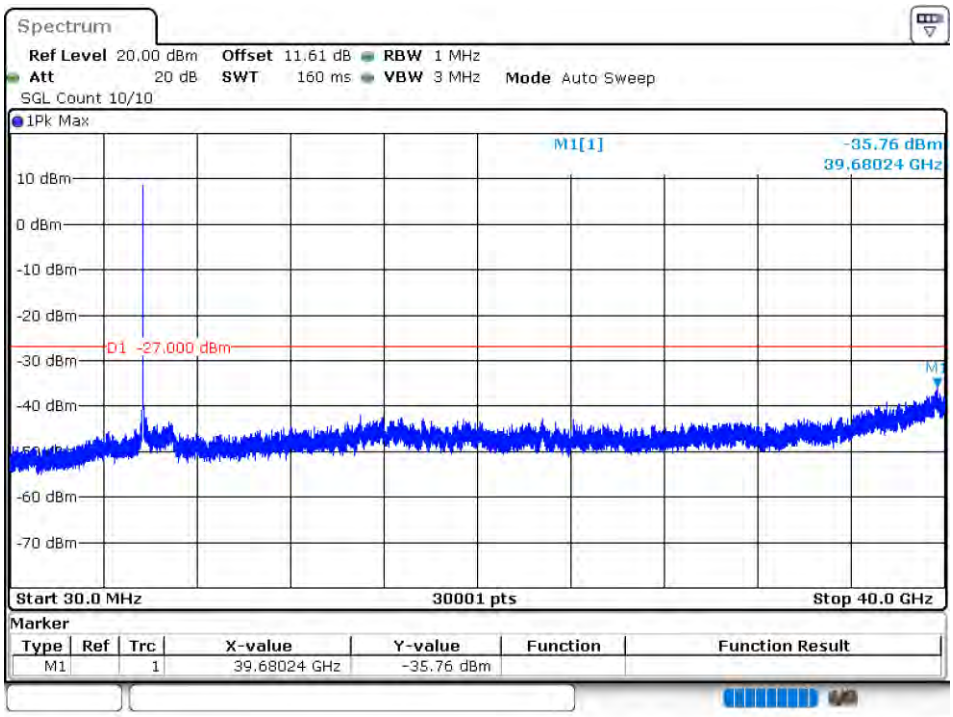

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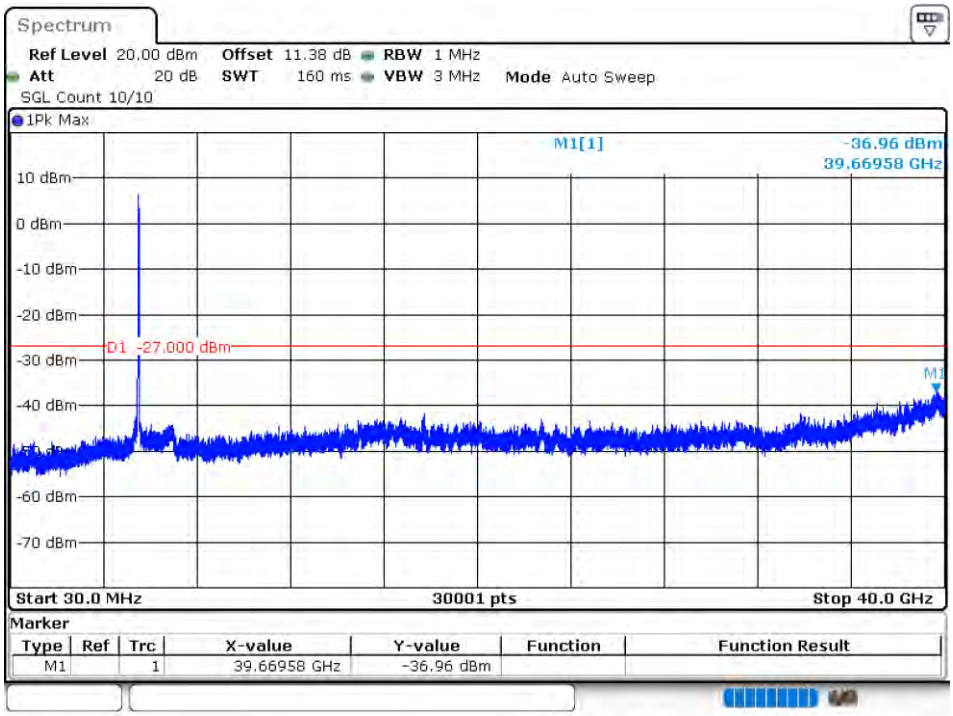

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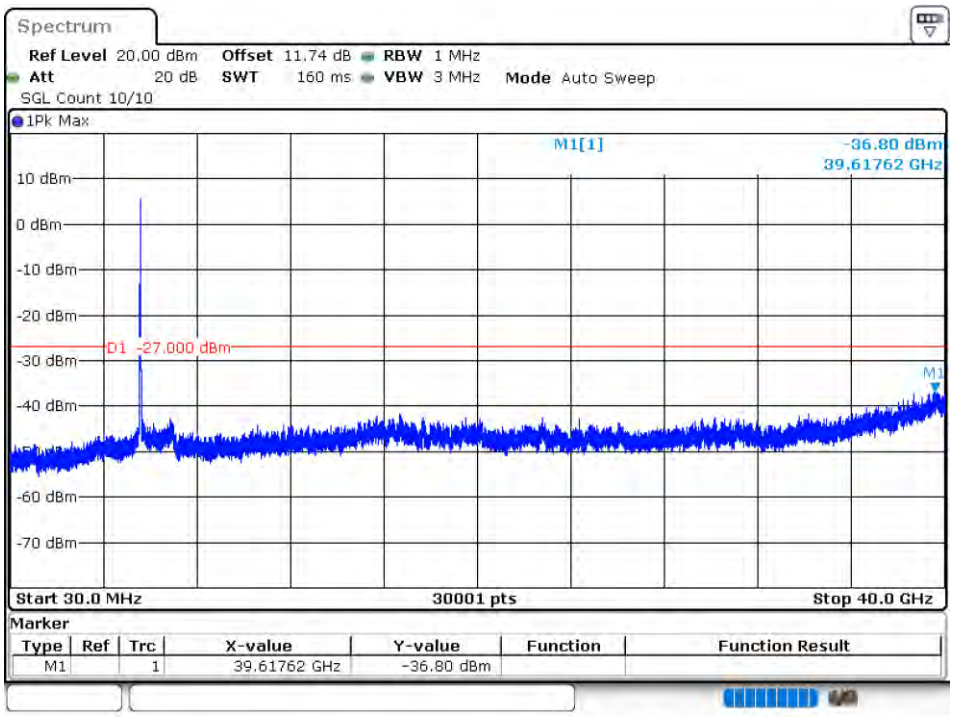
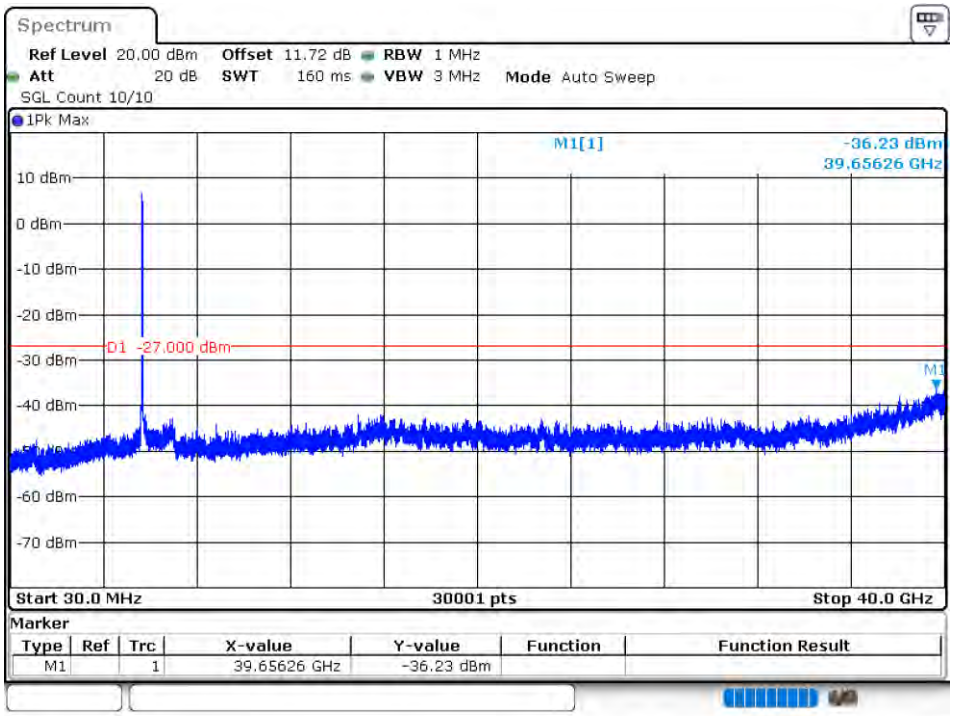
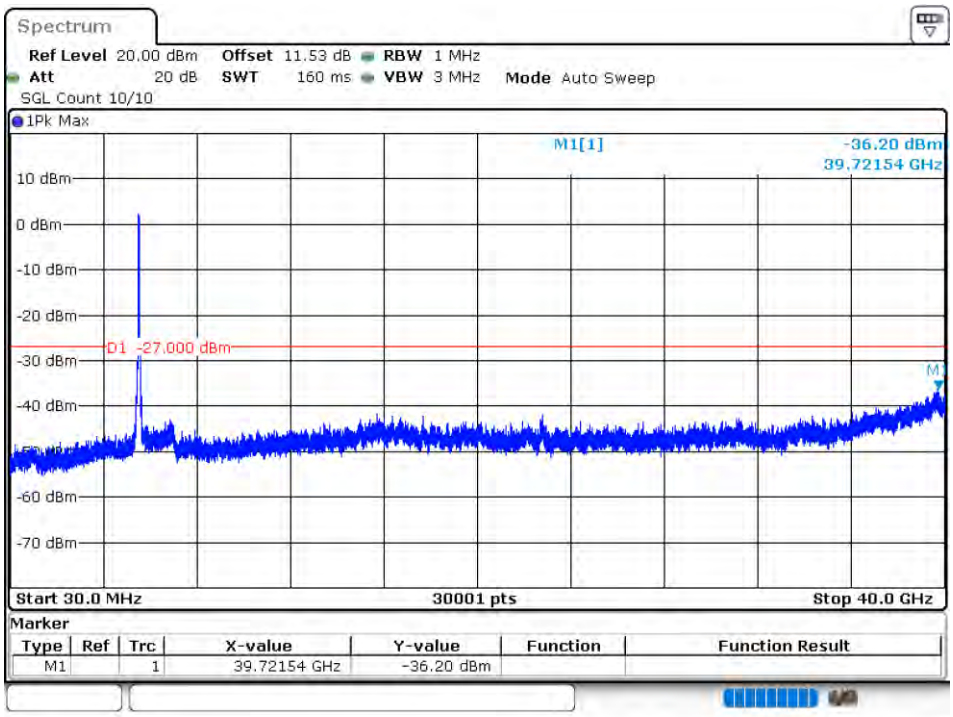


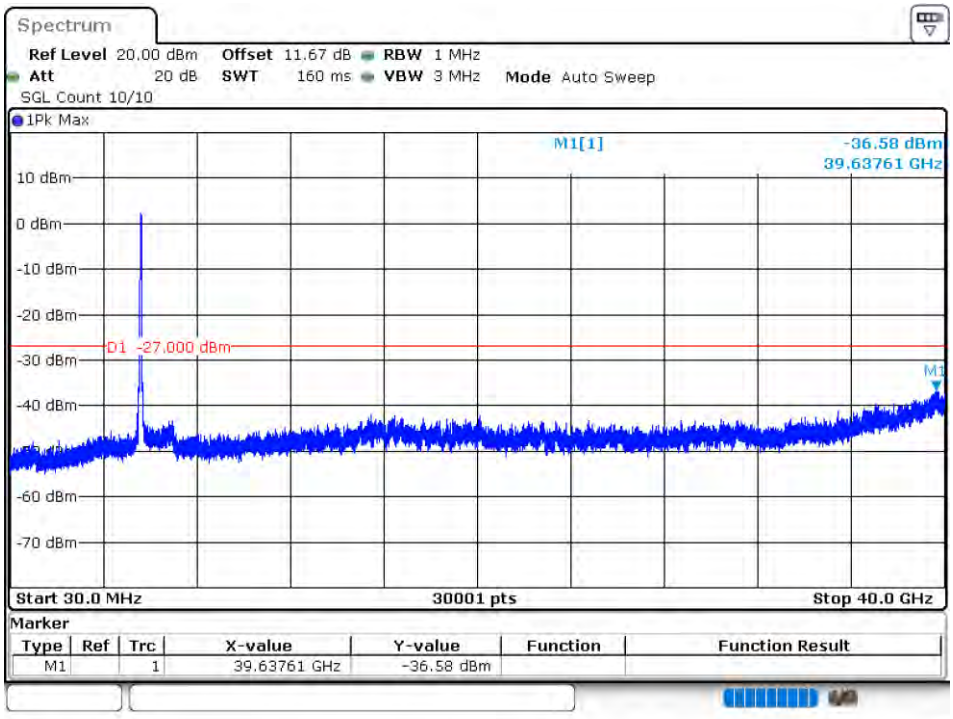
Tx. Spurious NVNT ac40 5670MHz Ant1 Emission



Tx. Spurious NVNT ac80 5530MHz Ant1 Emission



Tx. Spurious NVNT ac80 5610MHz Ant1 Emission



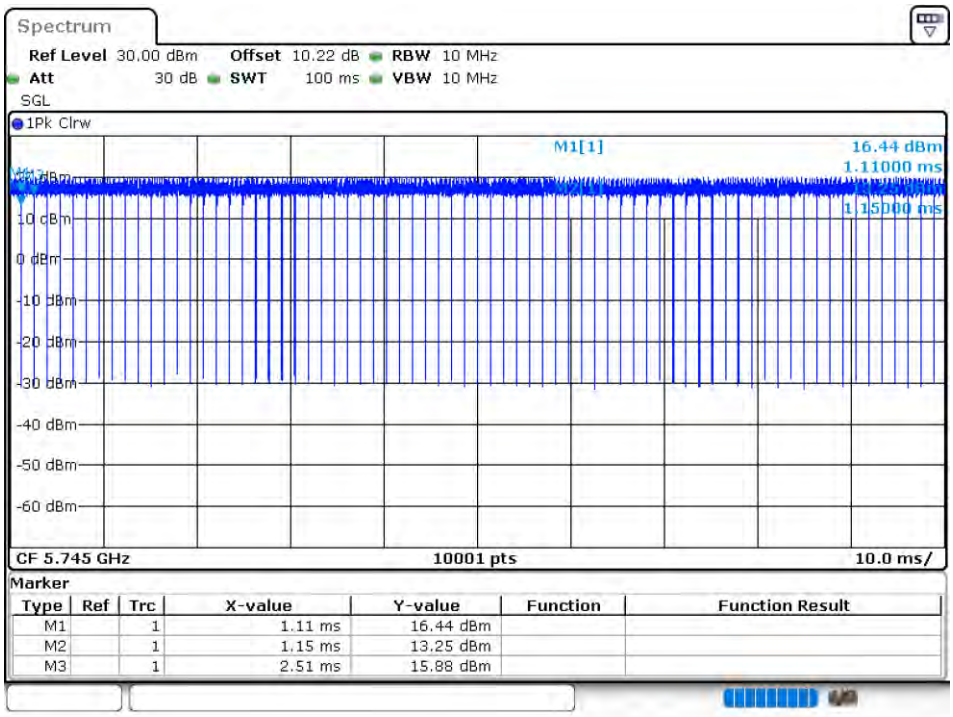
5.8G WIFI

Duty Cycle

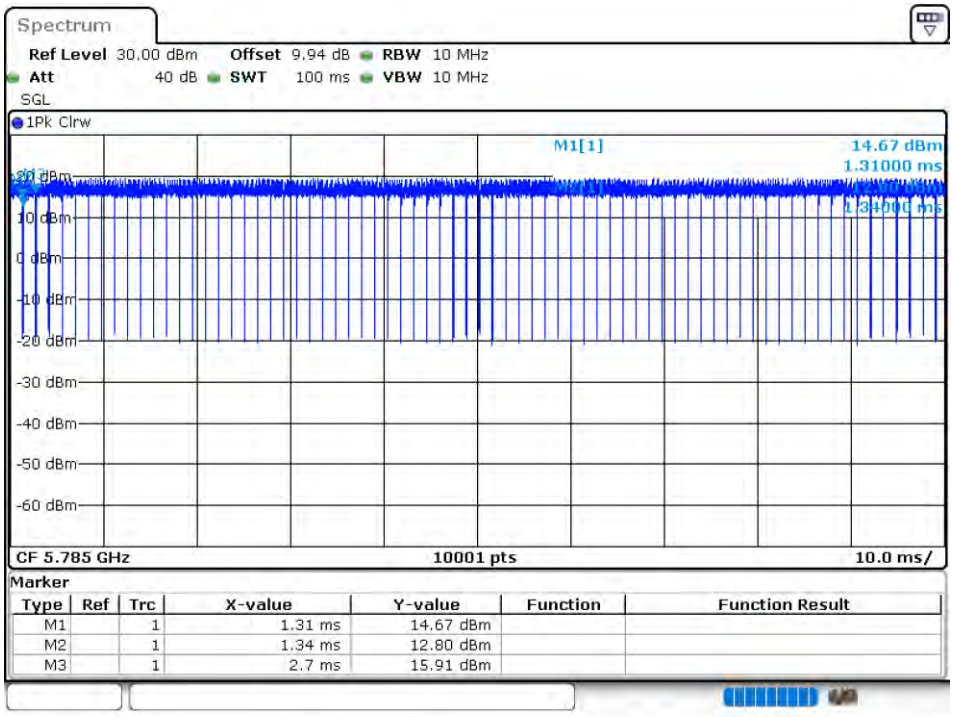
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	98.16	0.08	0.74
NVNT	a	5785	Ant1	98.13	0.08	0.74
NVNT	a	5825	Ant1	98.12	0.08	0.74
NVNT	n20	5745	Ant1	97.98	0.09	0.79
NVNT	n20	5785	Ant1	98.02	0.09	0.78
NVNT	n20	5825	Ant1	97.99	0.09	0.79
NVNT	n40	5755	Ant1	96.2	0.17	1.59
NVNT	n40	5795	Ant1	96.13	0.17	1.59
NVNT	ac20	5745	Ant1	98.02	0.09	0.78
NVNT	ac20	5785	Ant1	98.01	0.09	0.78
NVNT	ac20	5825	Ant1	98.03	0.09	0.78
NVNT	ac40	5755	Ant1	96.2	0.17	1.56
NVNT	ac40	5795	Ant1	96.23	0.17	1.56
NVNT	ac80	5775	Ant1	92.71	0.33	3.23

Test Graphs

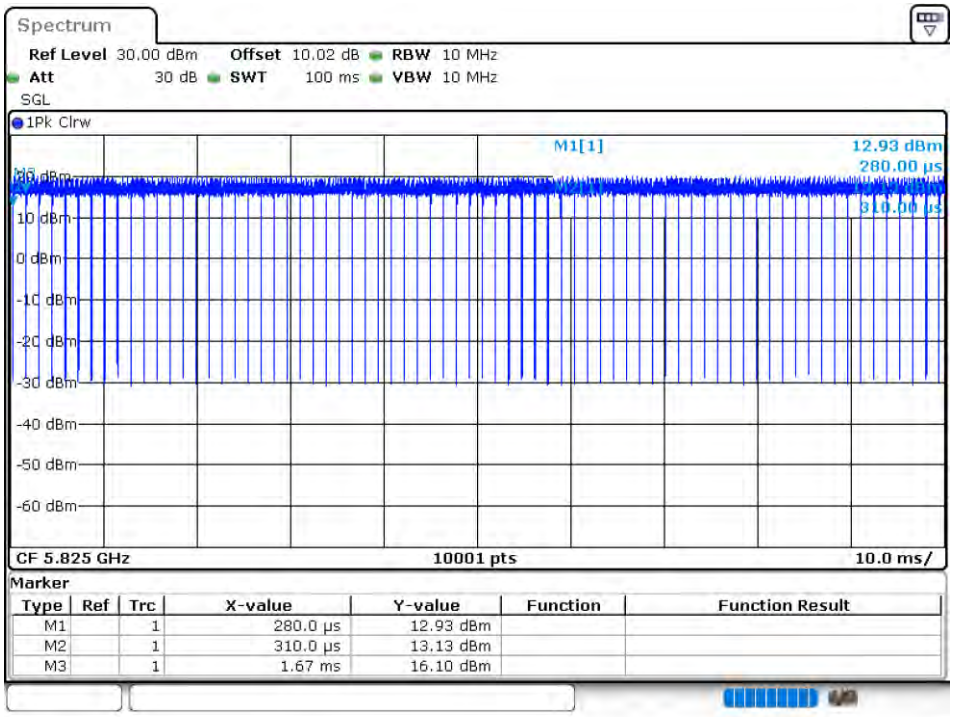
Duty Cycle NVNT a 5745MHz Ant1



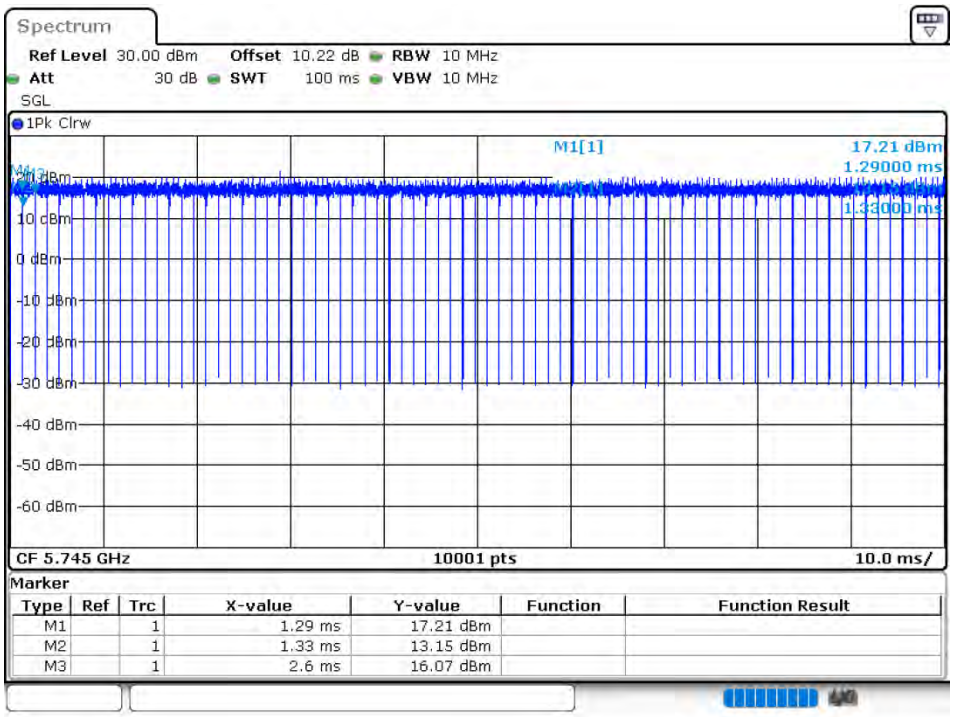
Duty Cycle NVNT a 5785MHz Ant1



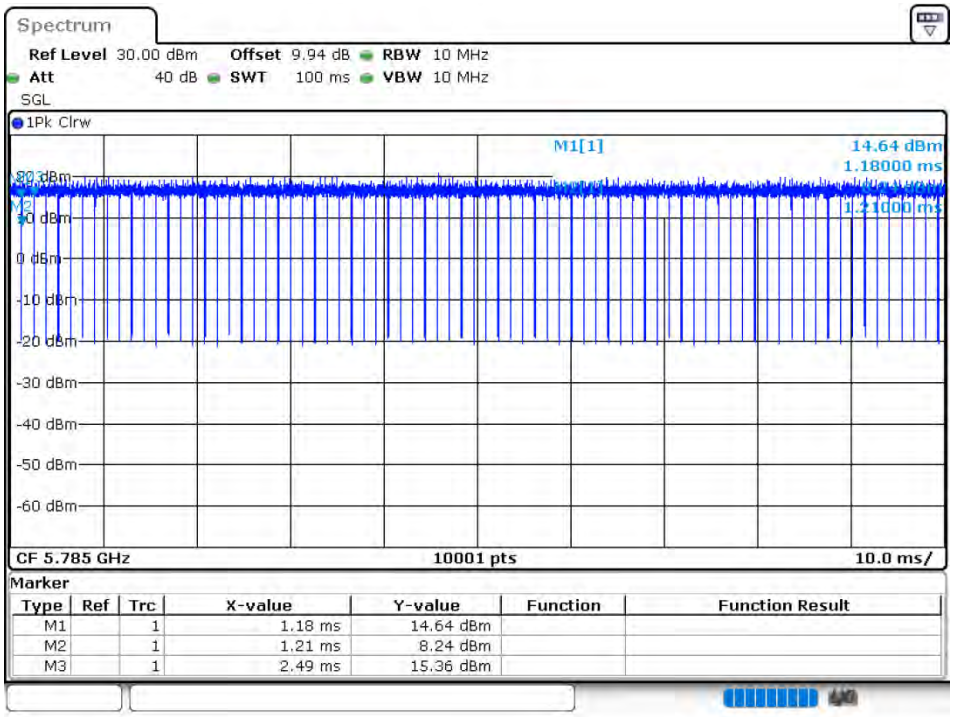
Duty Cycle NVNT a 5825MHz Ant1



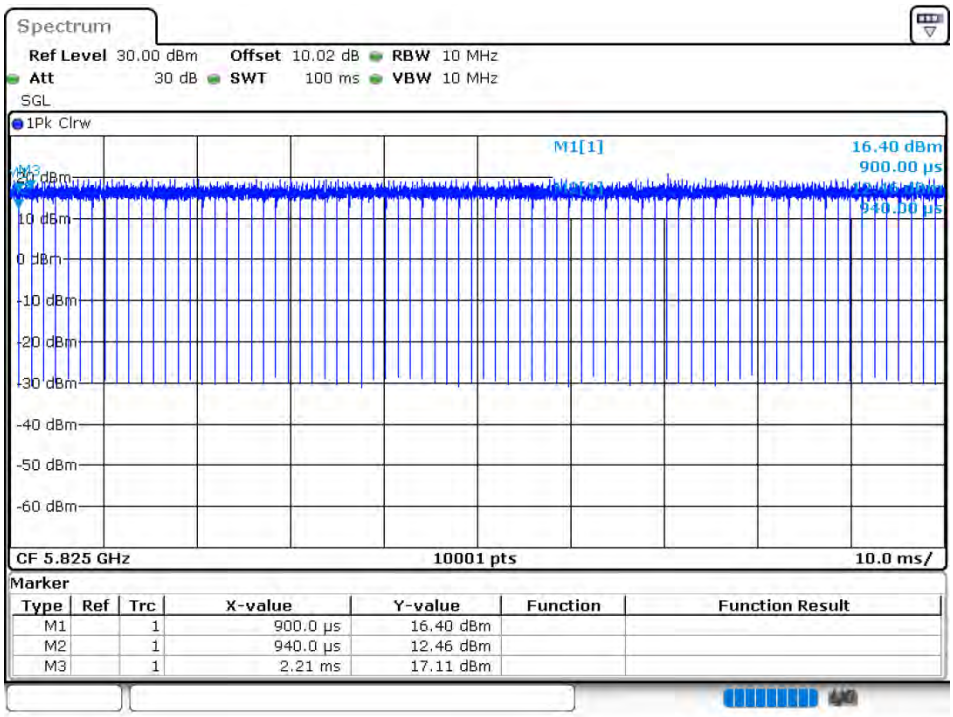
Duty Cycle NVNT n20 5745MHz Ant1



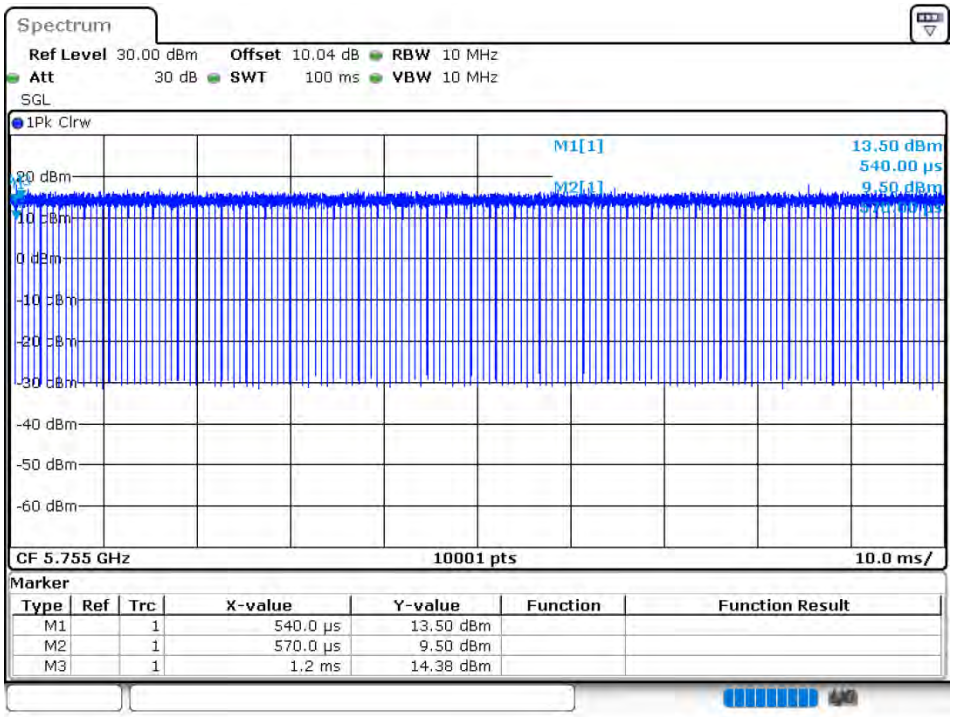
Duty Cycle NVNT n20 5785MHz Ant1



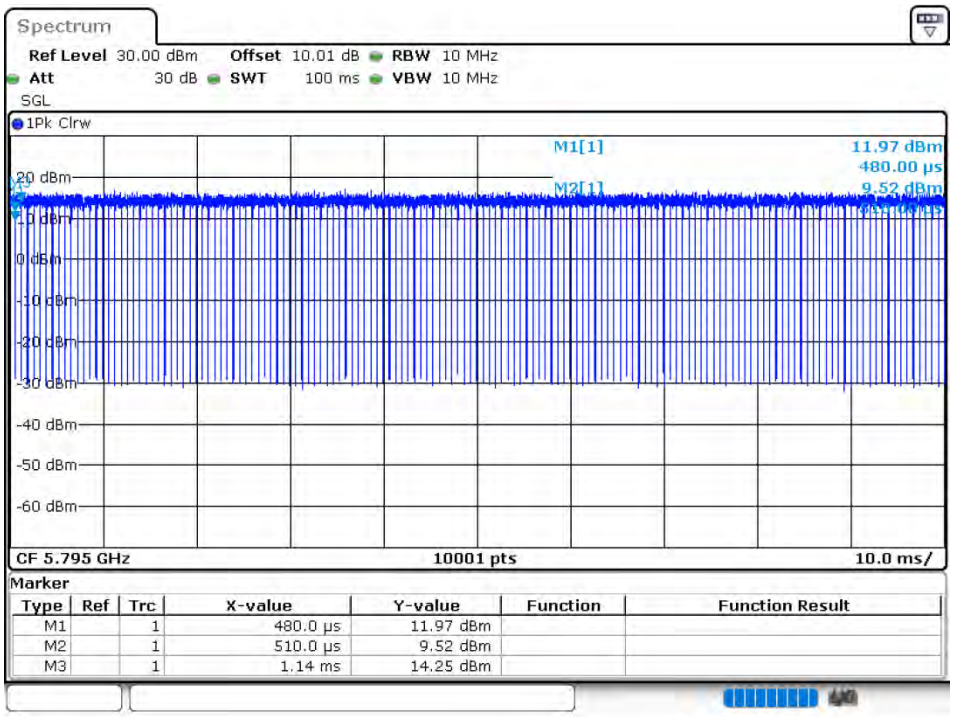
Duty Cycle NVNT n20 5825MHz Ant1



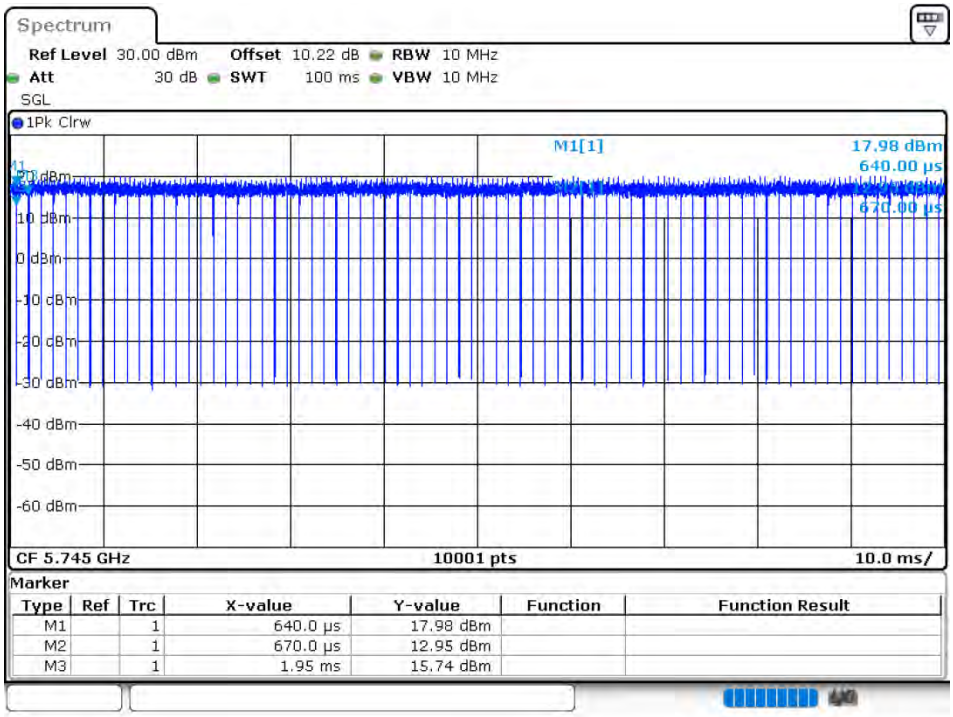
Duty Cycle NVNT n40 5755MHz Ant1



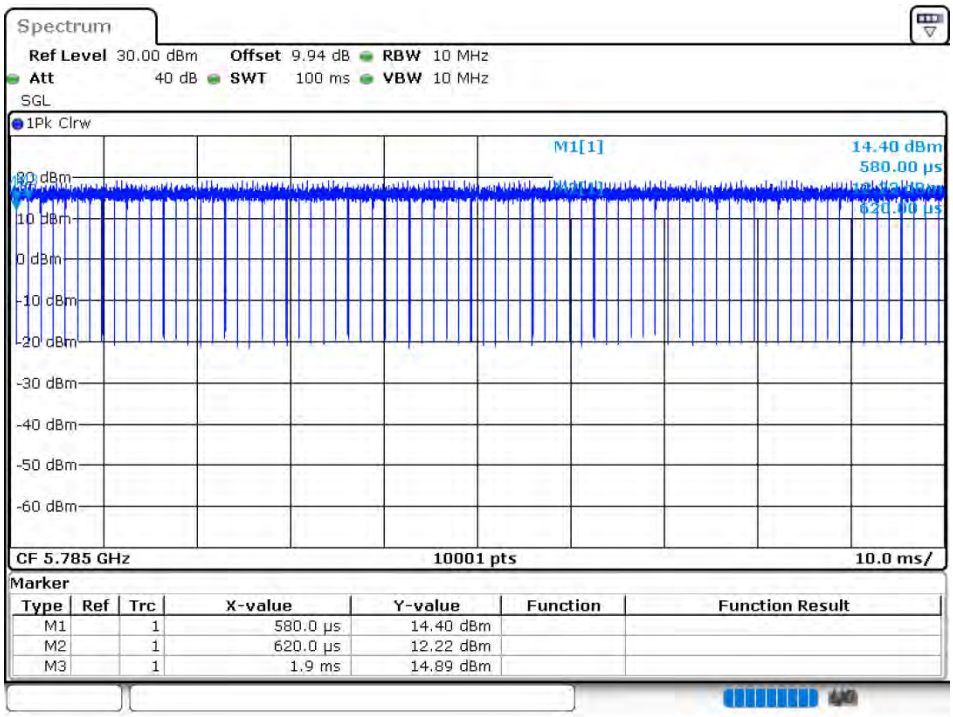
Duty Cycle NVNT n40 5795MHz Ant1



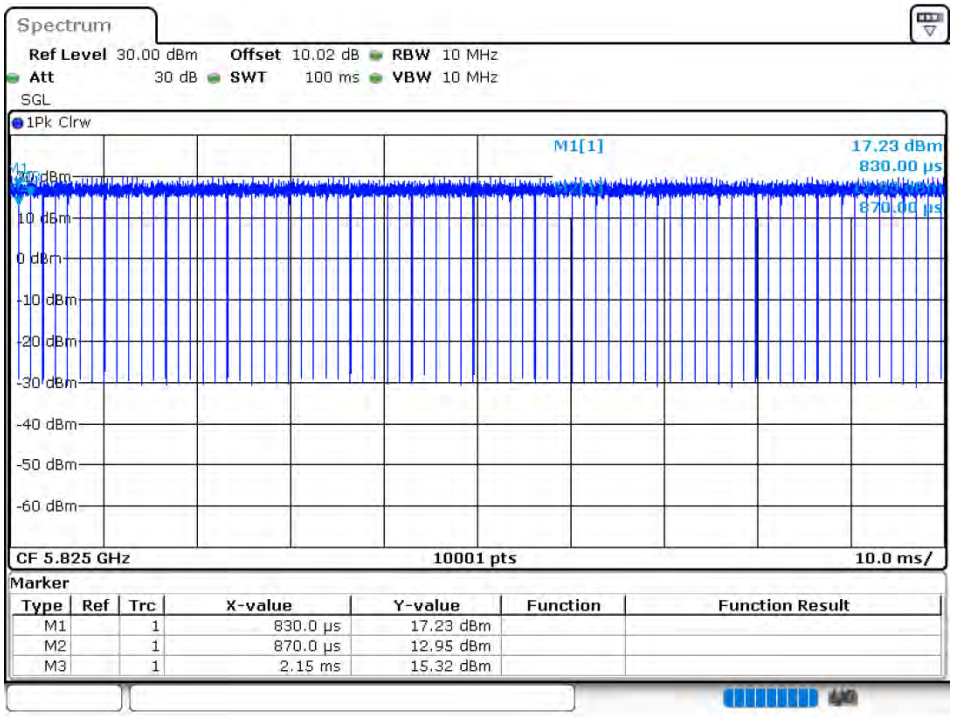
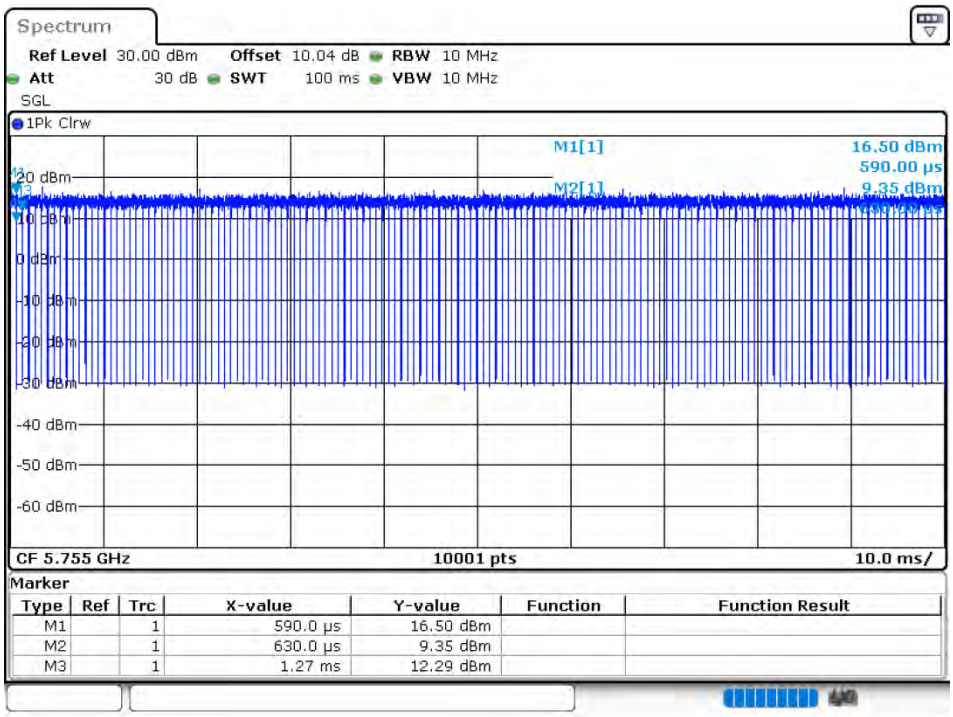
Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1



Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ac40 5755MHz Ant1