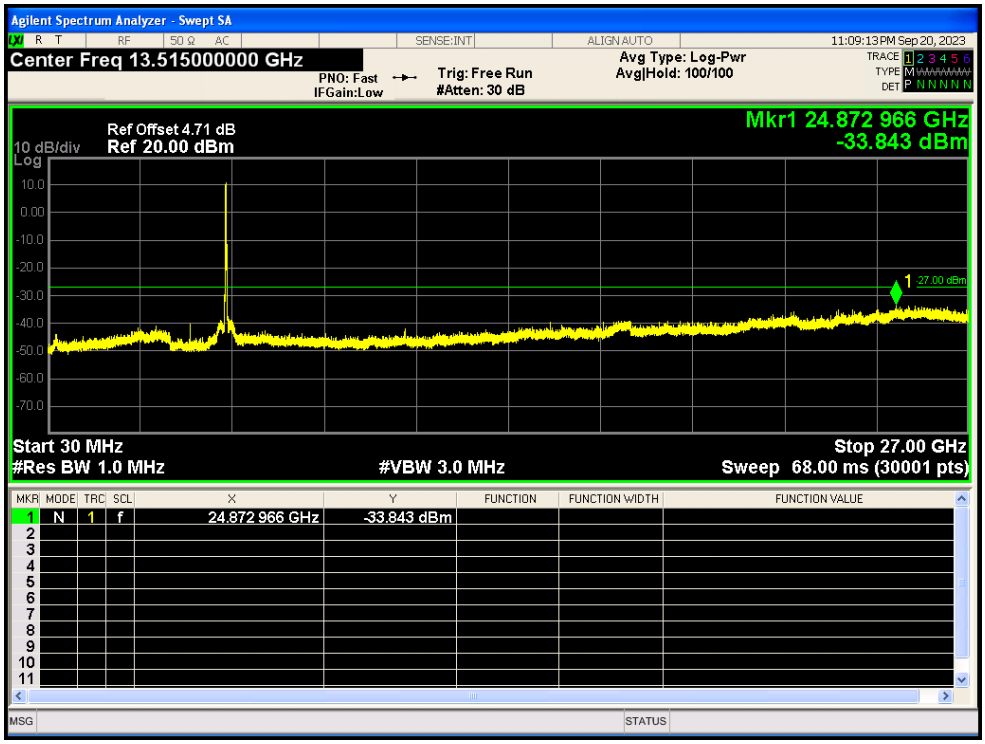
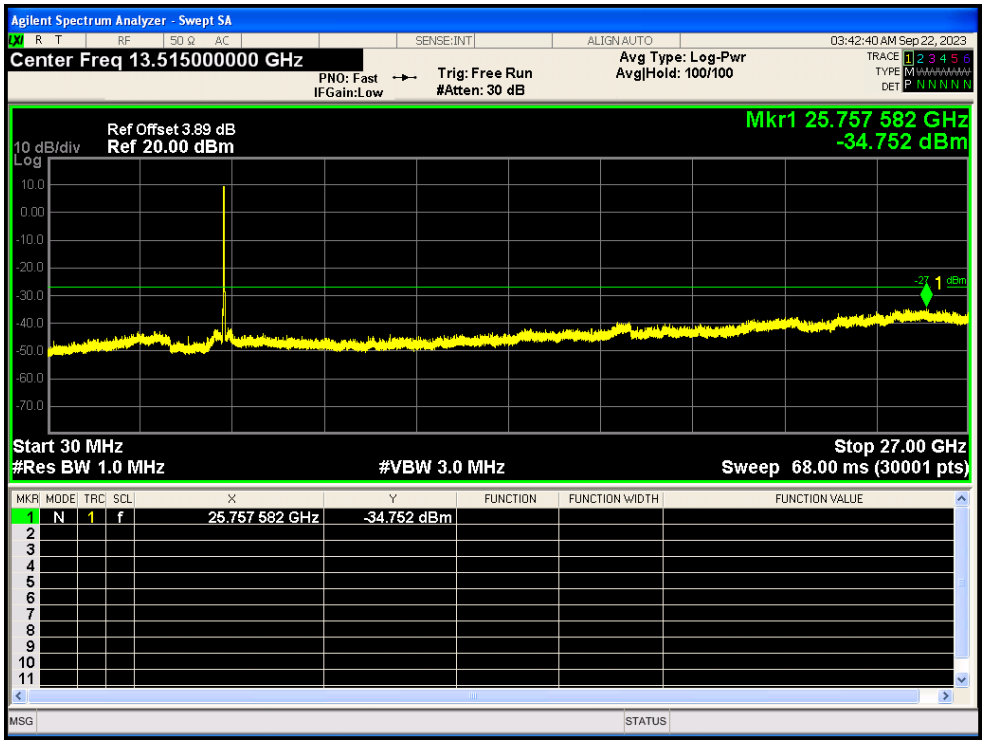
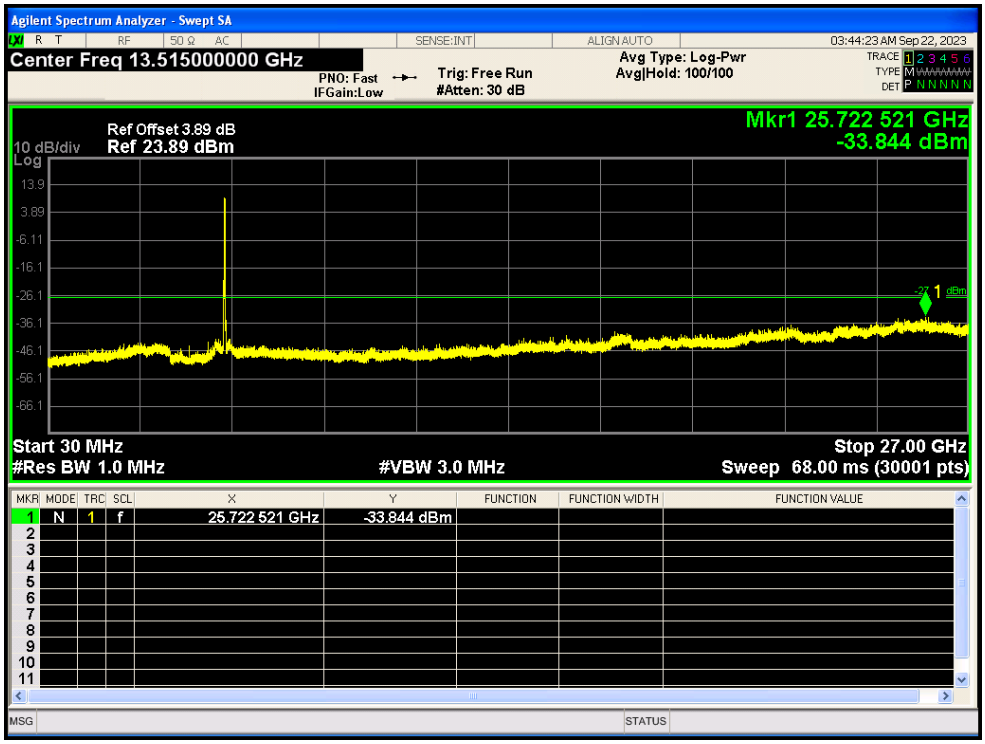


Tx. Spurious NVNT ac20 5180MHz Ant2 Emission



Tx. Spurious NVNT ac20 5200MHz Ant2 Emission



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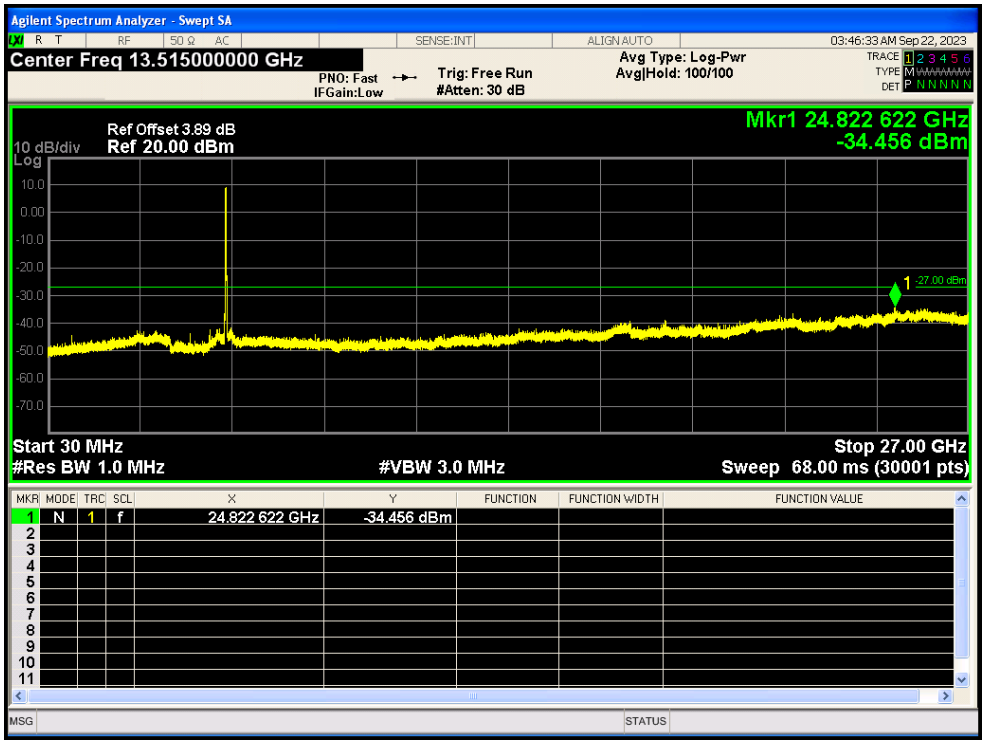

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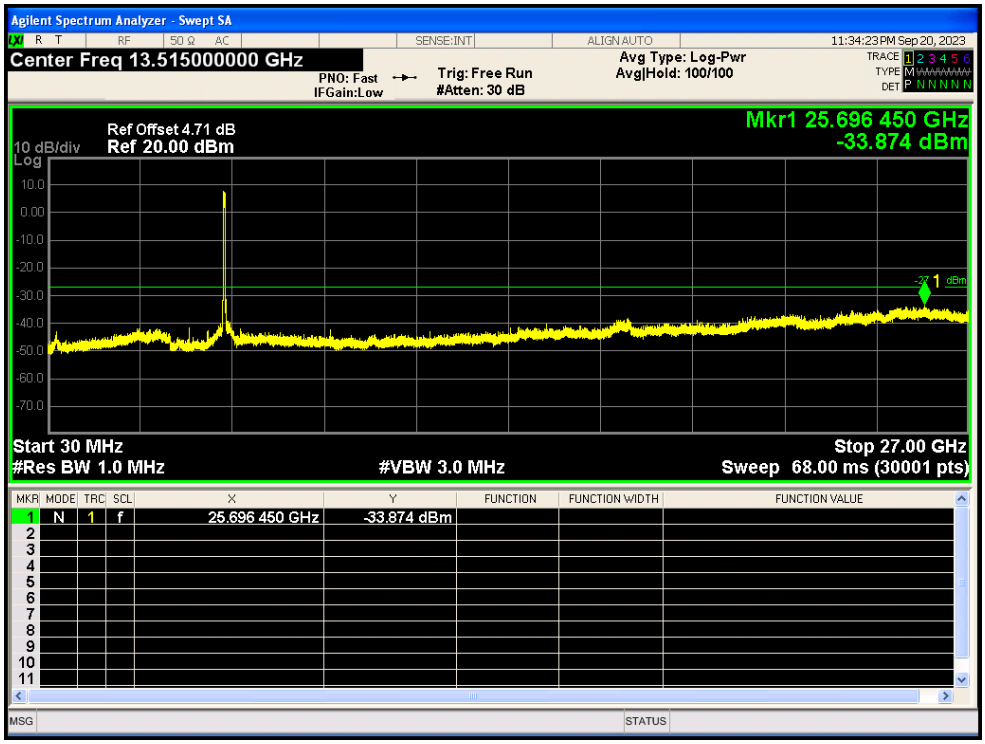

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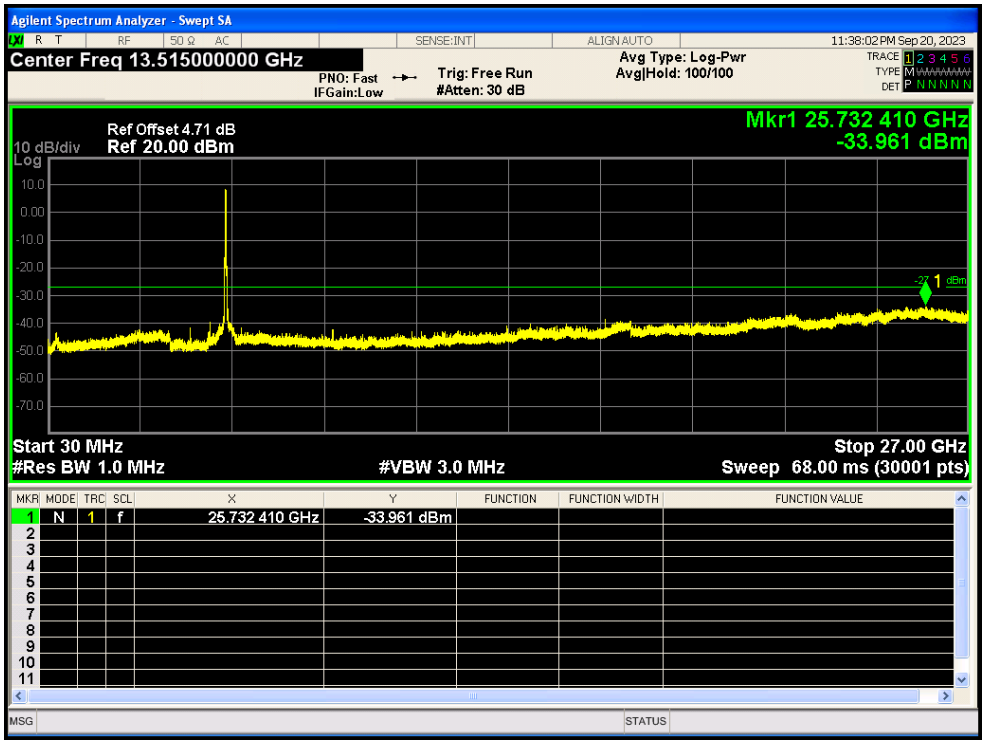

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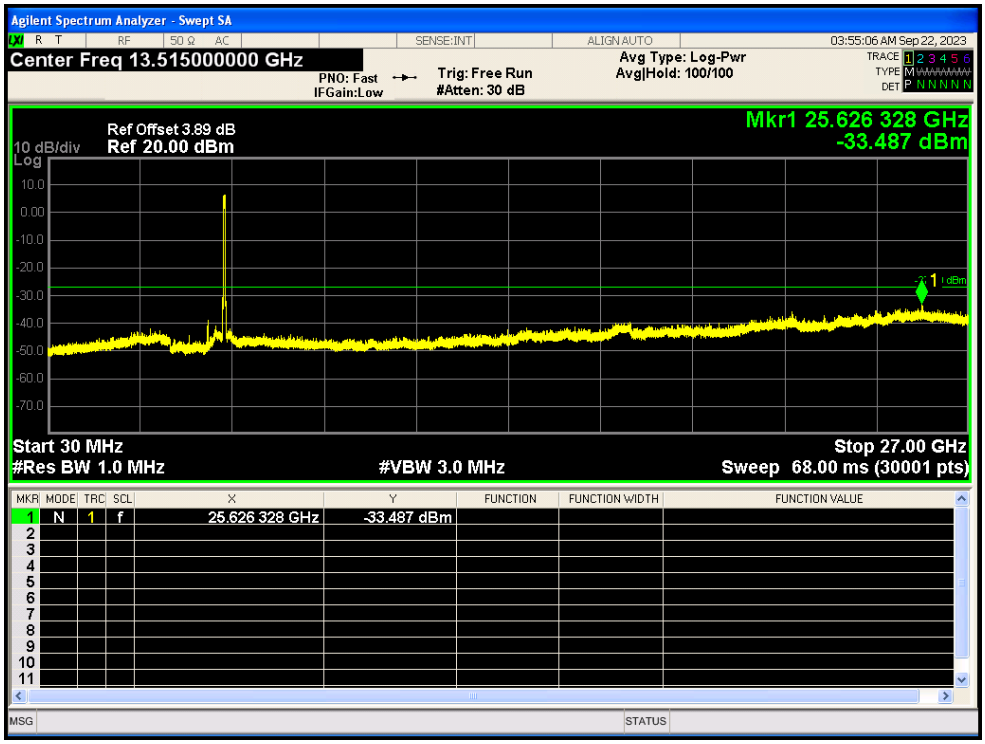

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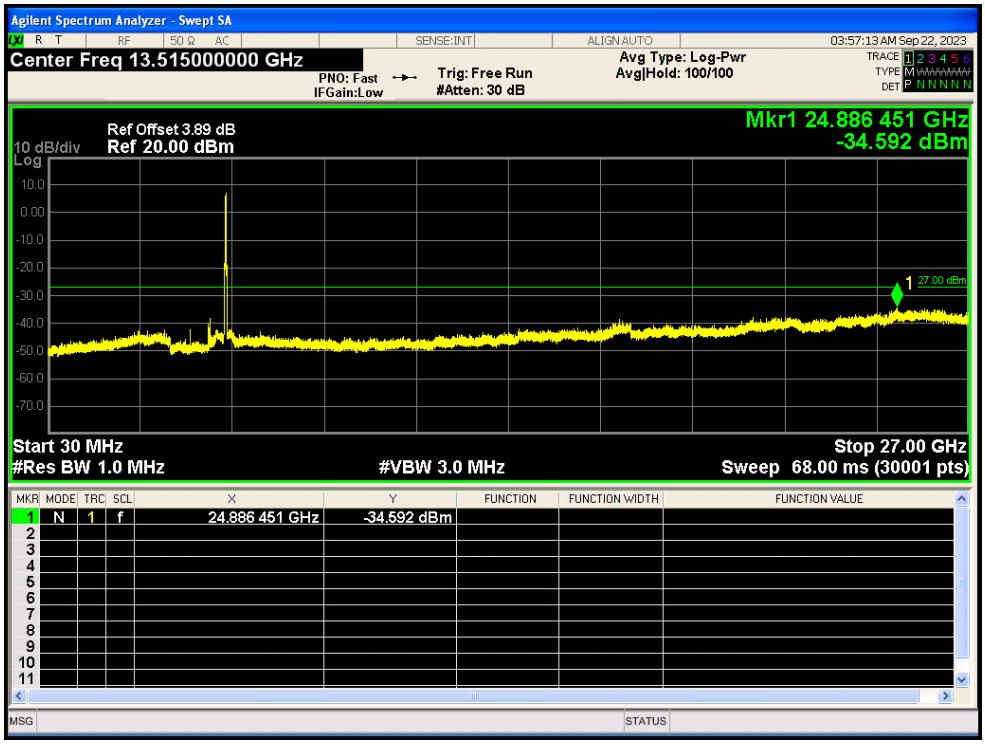
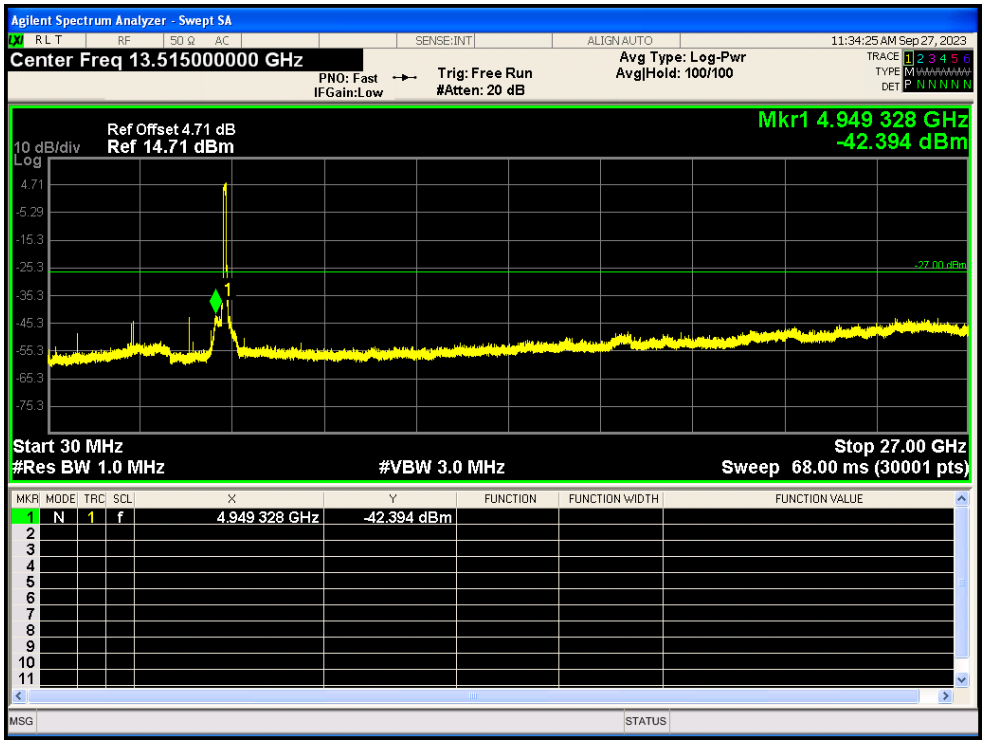


Tx. Spurious NVNT ac80 5210MHz Ant1 Emission



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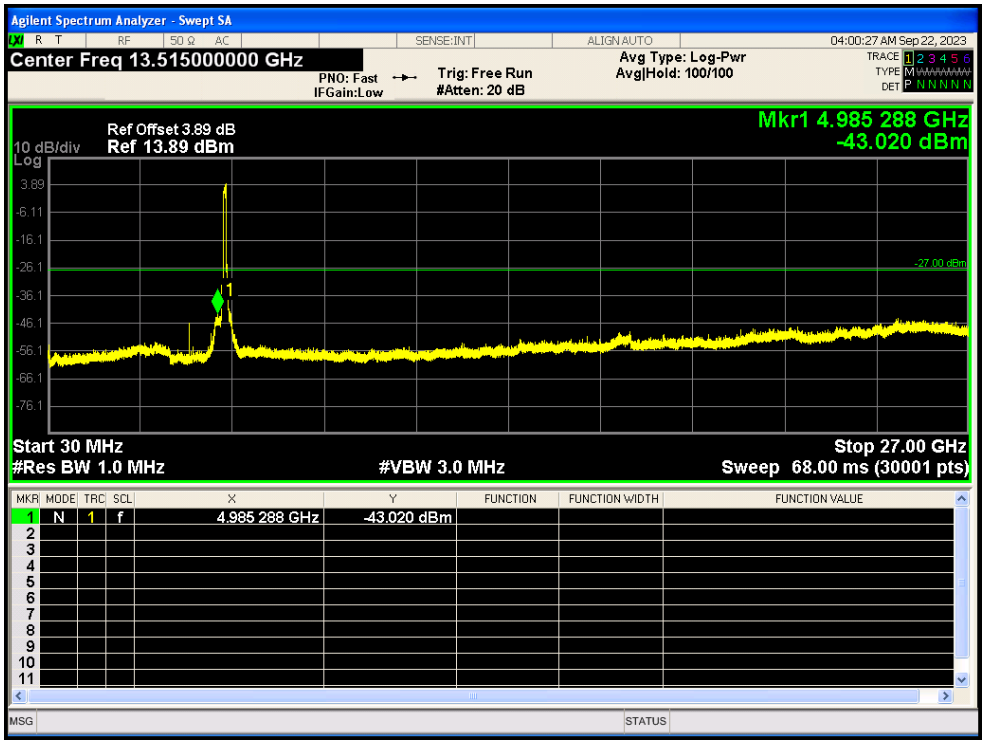

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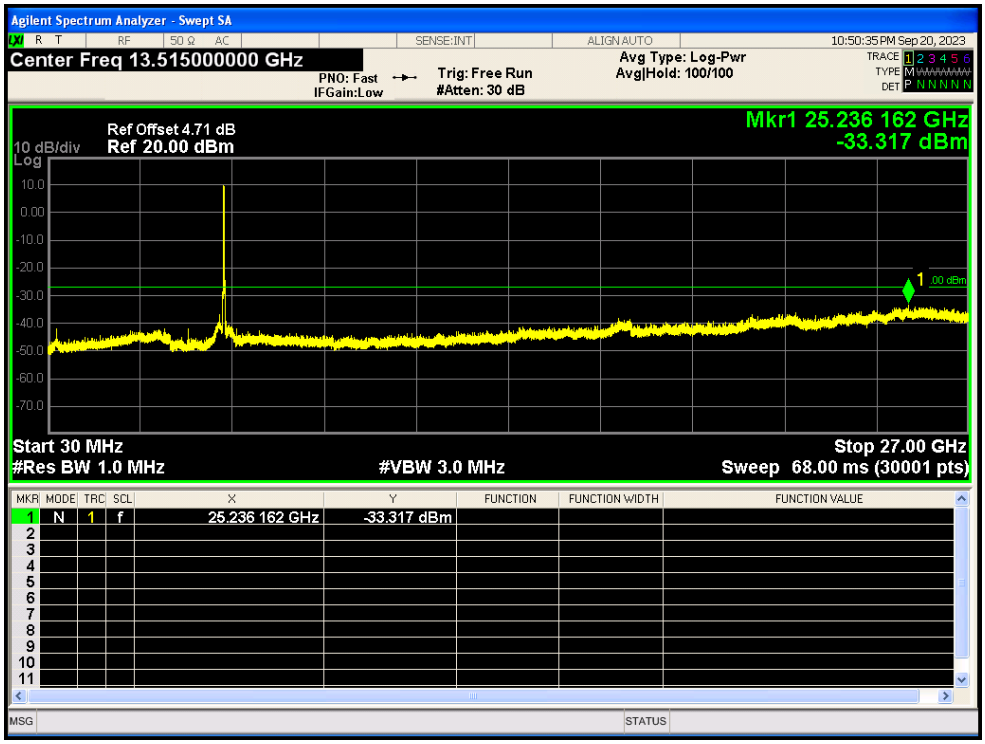

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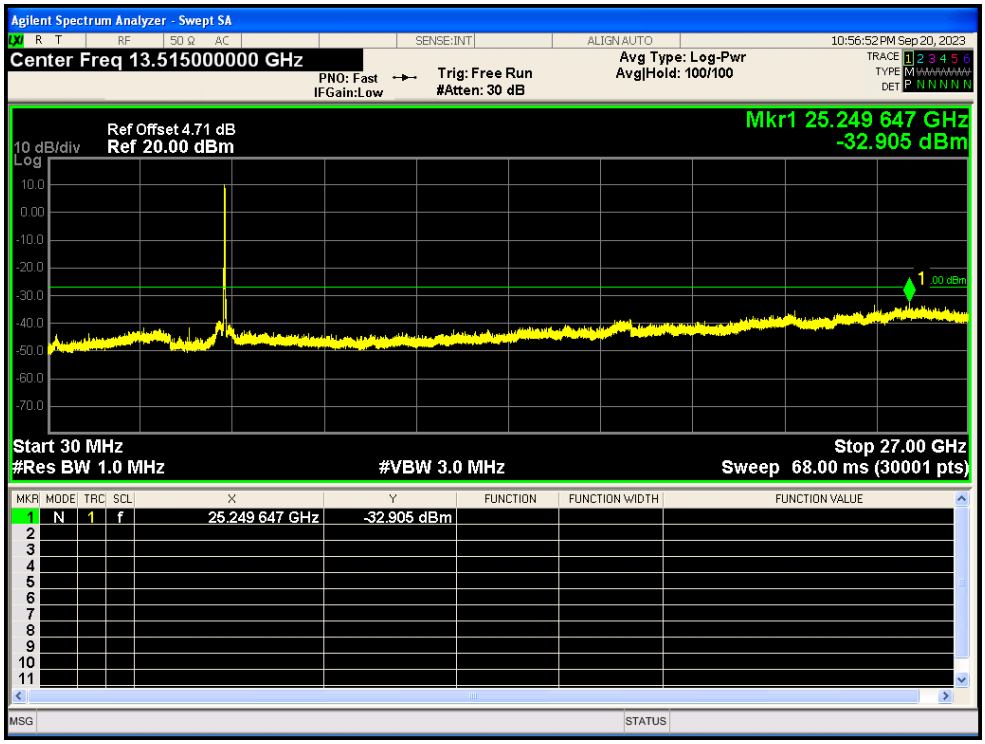

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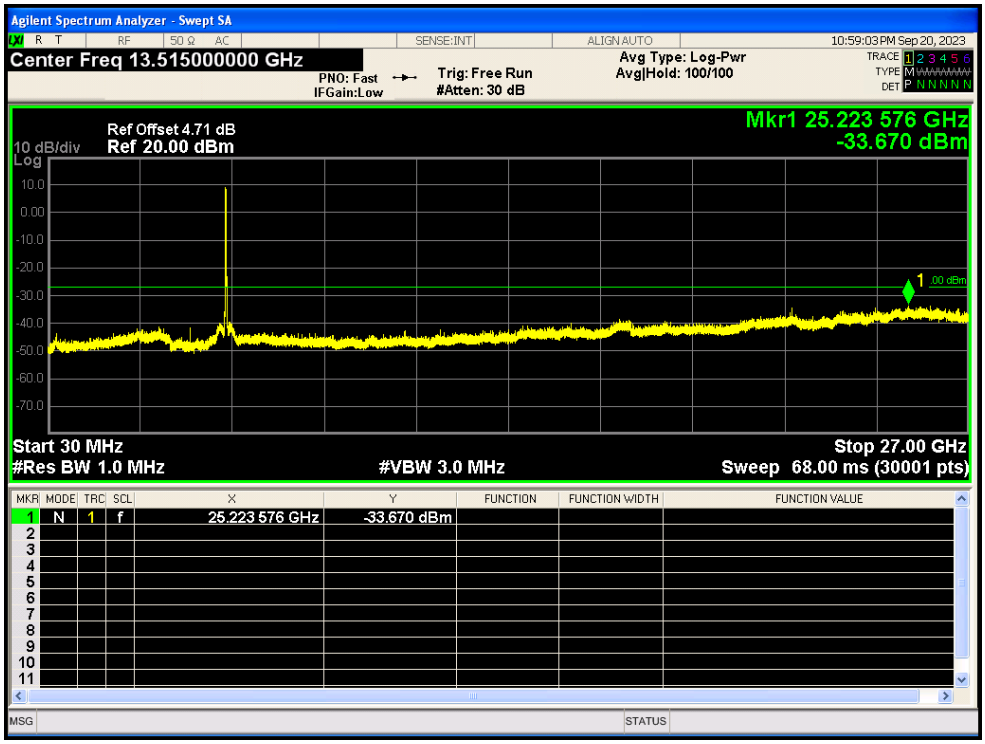

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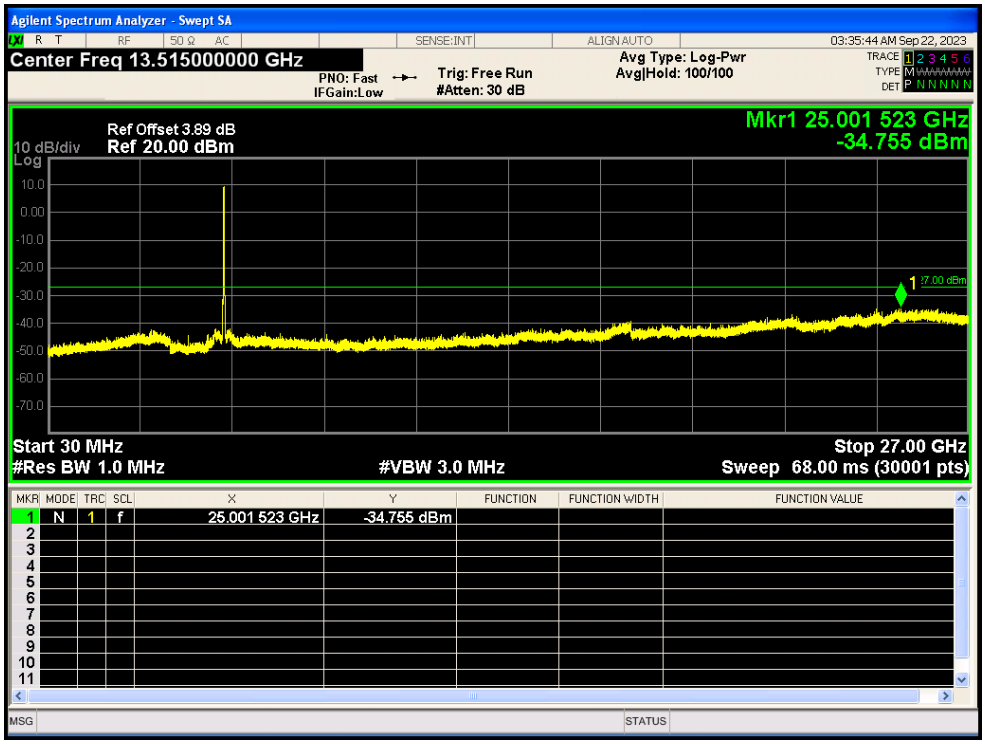
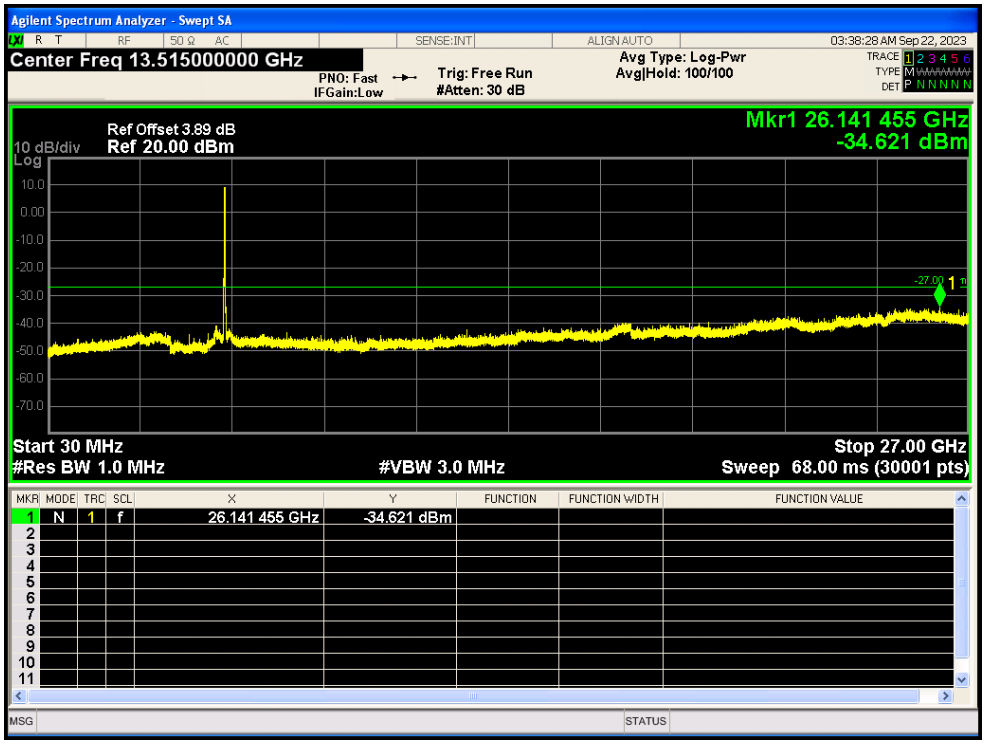


Tx. Spurious NVNT n20 5200MHz Ant2 Emission



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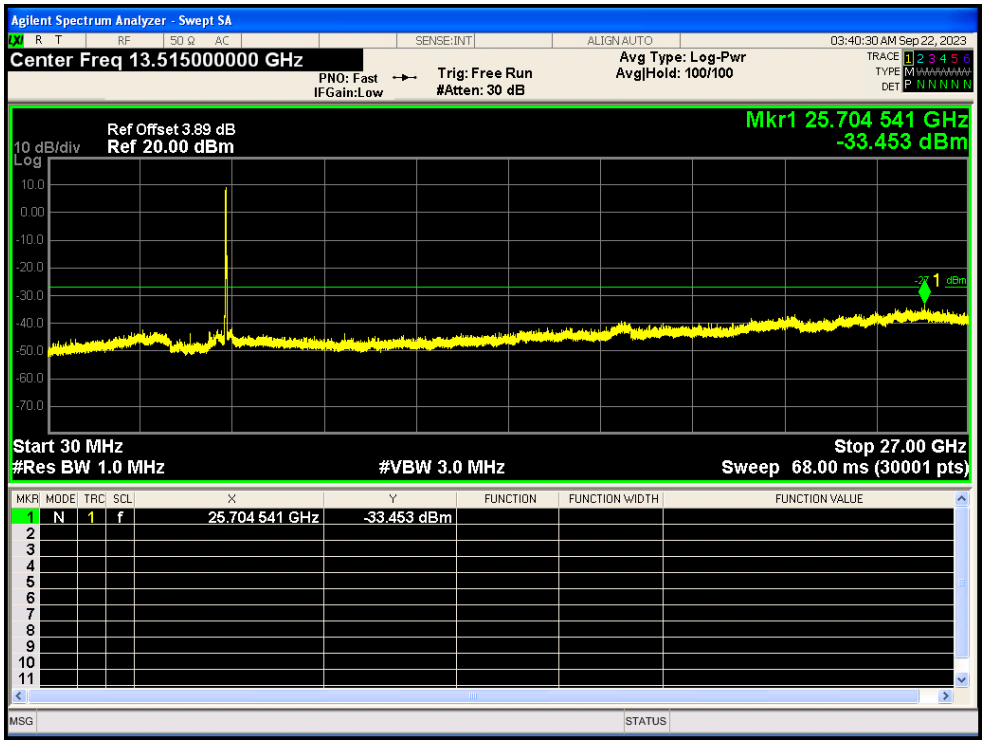
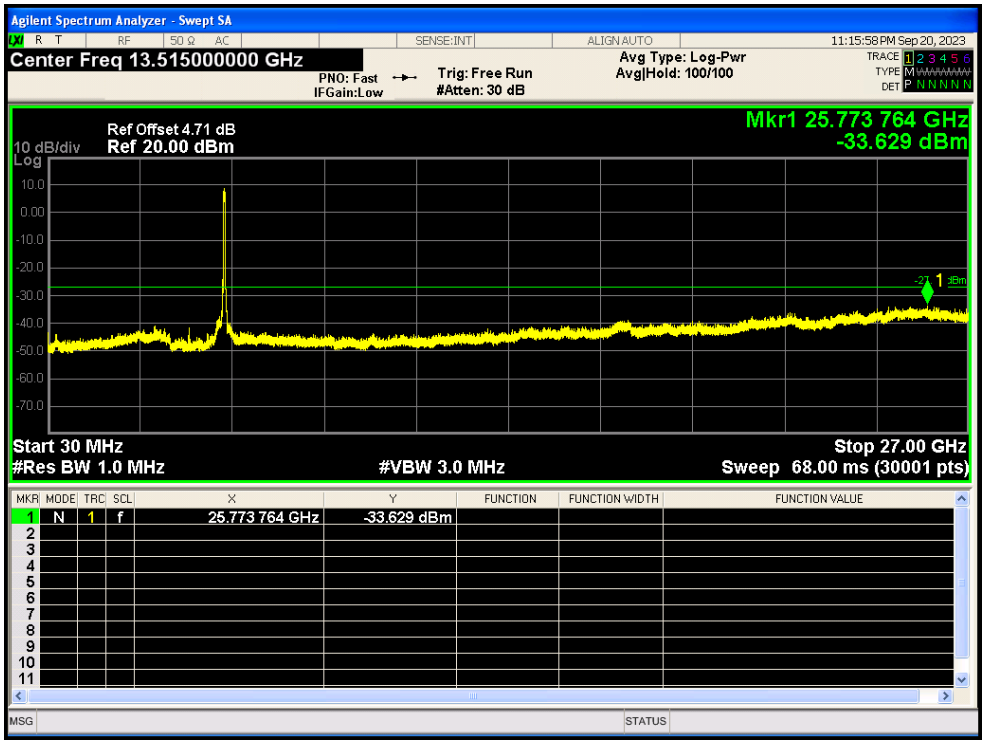
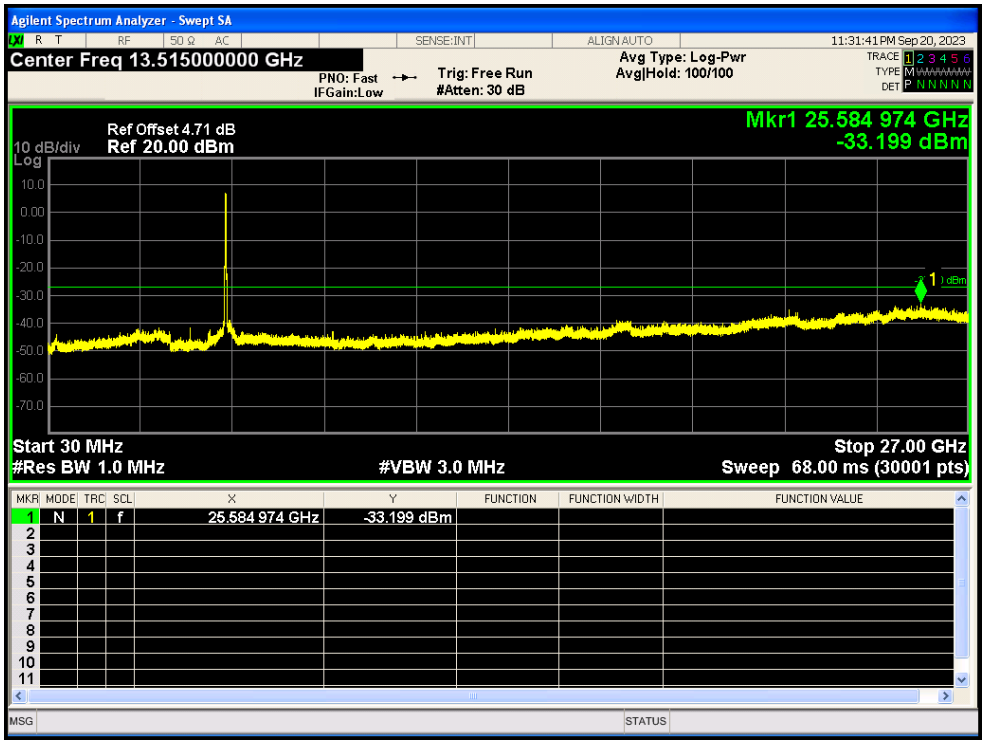


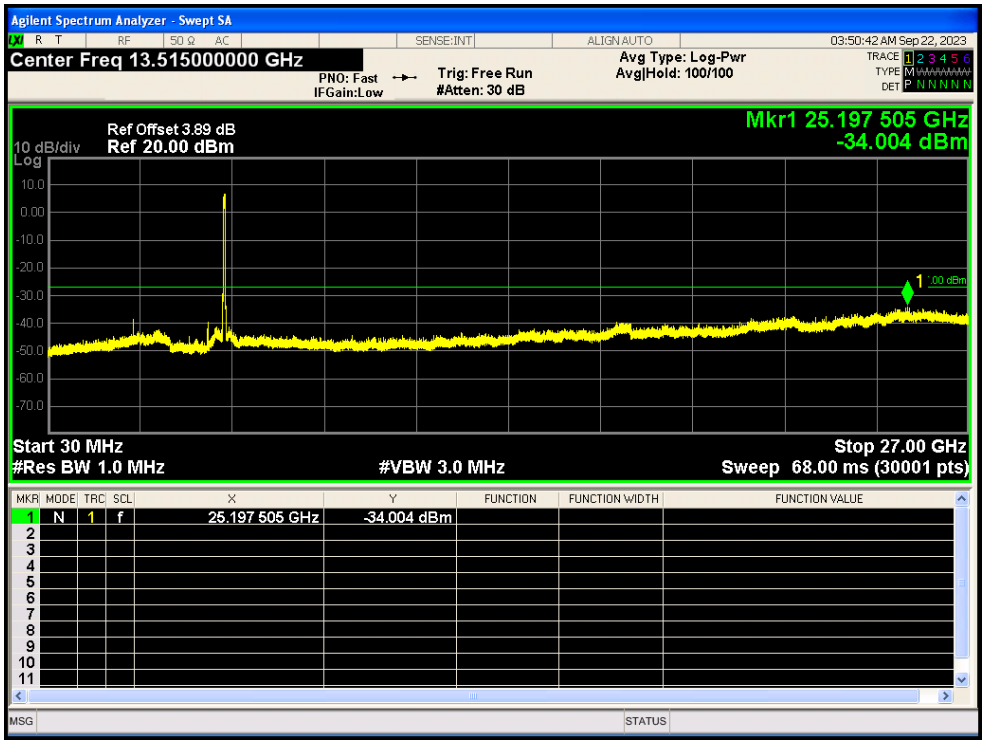
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



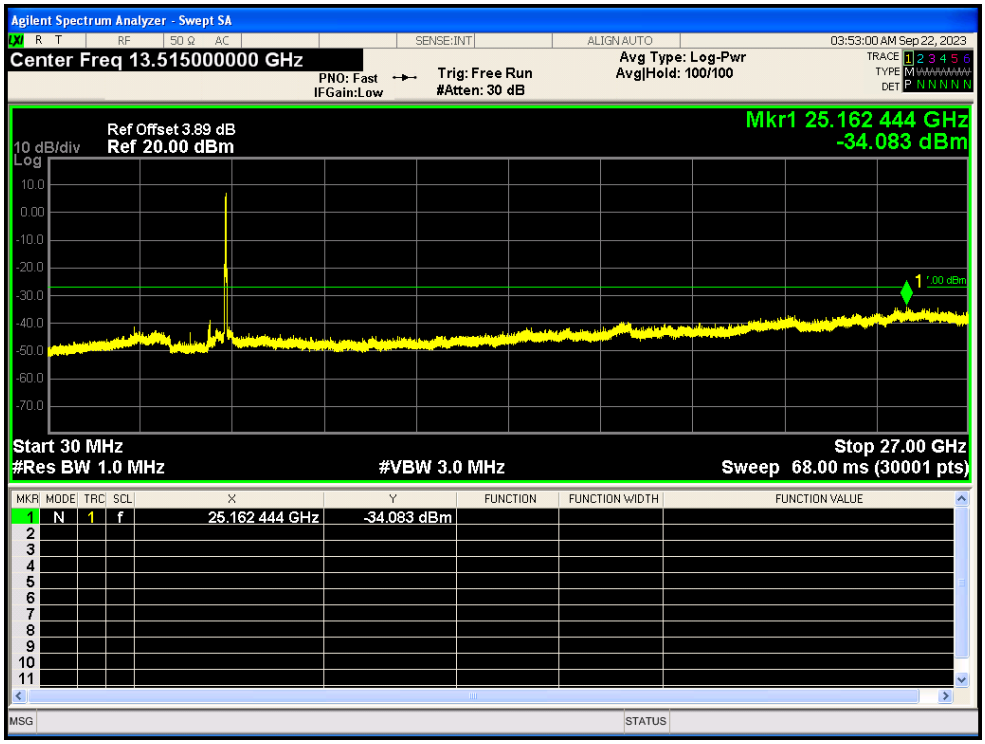
Tx. Spurious NVNT n40 5230MHz Ant1 Emission



Tx. Spurious NVNT n40 5190MHz Ant2 Emission



Tx. Spurious NVNT n40 5230MHz Ant2 Emission



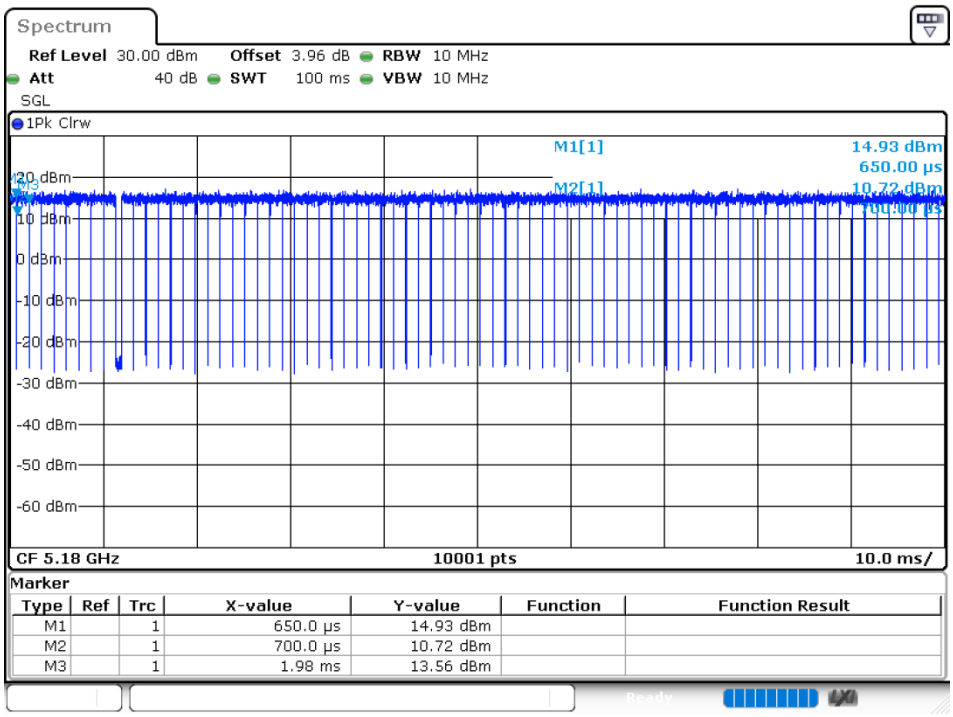
5.2G WIFI MIMO

Duty Cycle

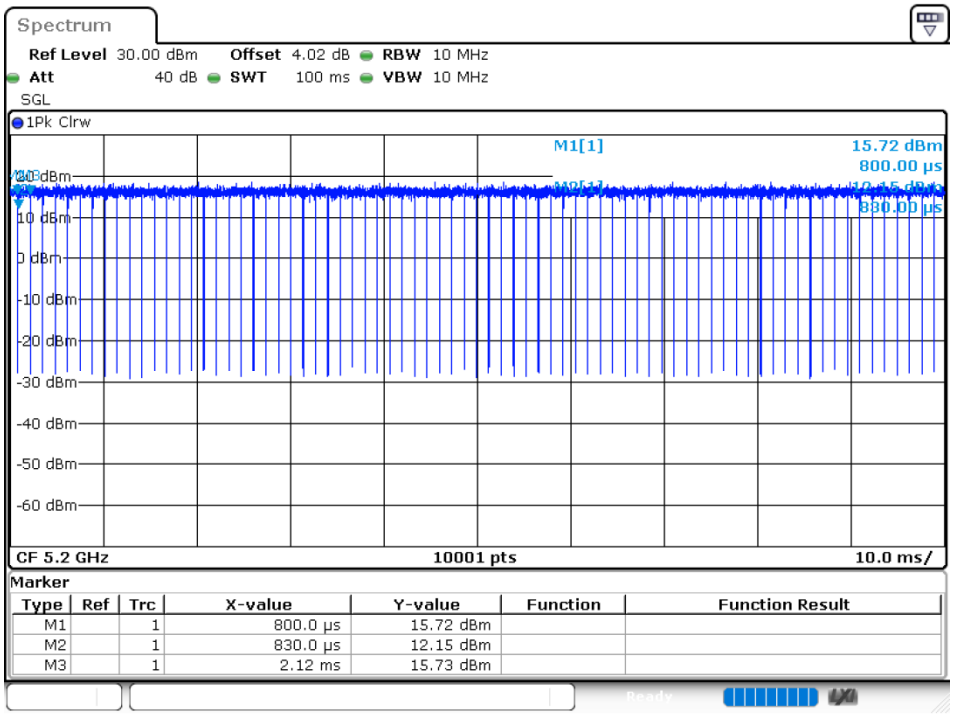
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ac20	5180	Ant1	96.95	0.13	0.78
NVNT	ac20	5200	Ant1	97.75	0.1	0.78
NVNT	ac20	5240	Ant1	97.62	0.1	0.78
NVNT	ac40	5190	Ant1	95.31	0.21	1.56
NVNT	ac40	5230	Ant1	95.32	0.21	1.56
NVNT	ac80	5210	Ant1	91.5	0.39	3.13
NVNT	n20	5180	Ant1	97.09	0.13	0.78
NVNT	n20	5200	Ant1	97.61	0.11	0.78
NVNT	n20	5240	Ant1	97.62	0.1	0.79
NVNT	n40	5190	Ant1	94.82	0.23	1.59
NVNT	n40	5230	Ant1	95.36	0.21	1.59

Test Graphs

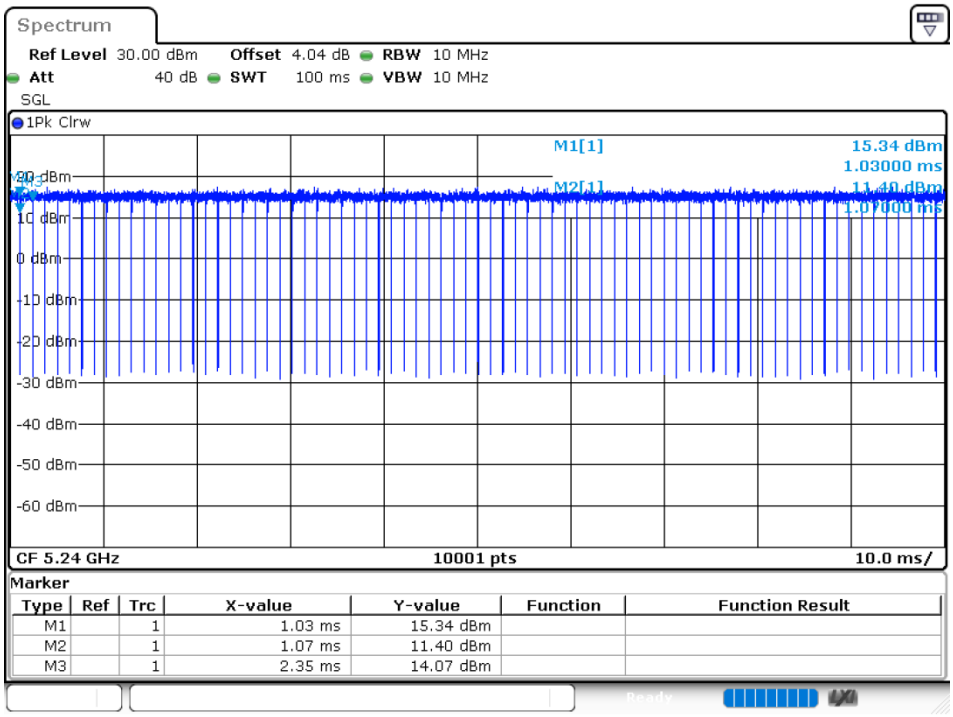
Duty Cycle NVNT ac20 5180MHz Sum



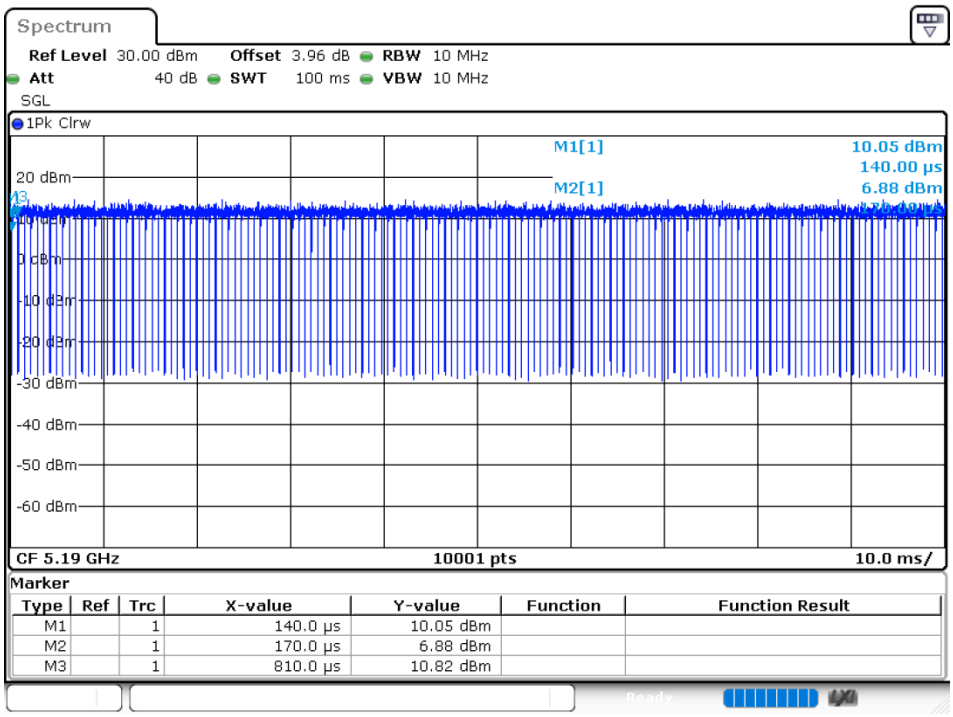
Duty Cycle NVNT ac20 5200MHz Sum



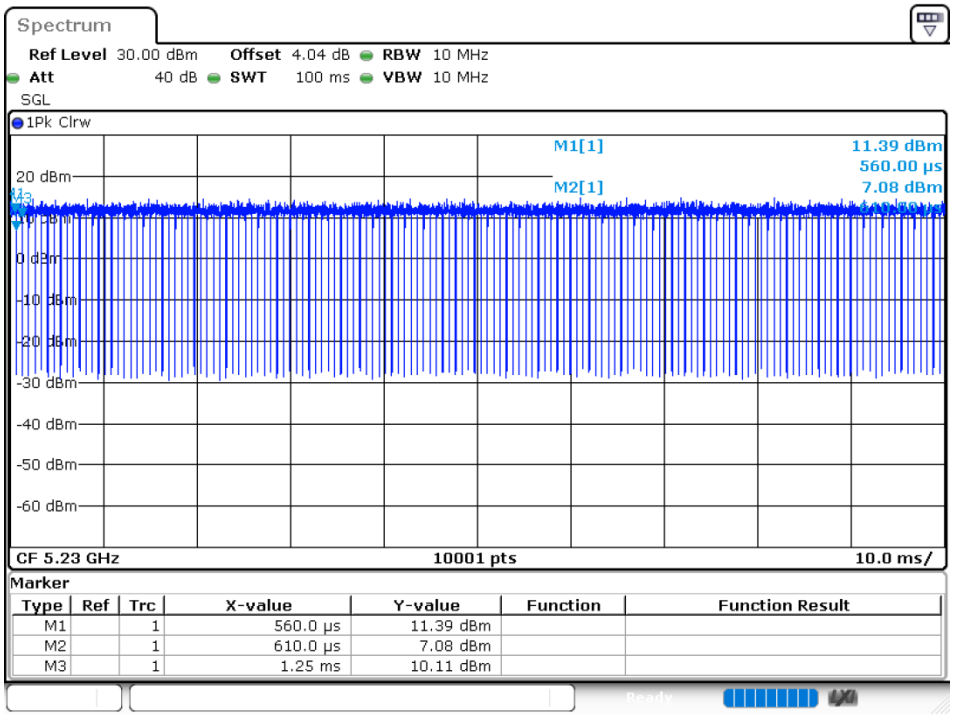
Duty Cycle NVNT ac20 5240MHz Sum



Duty Cycle NVNT ac40 5190MHz Sum



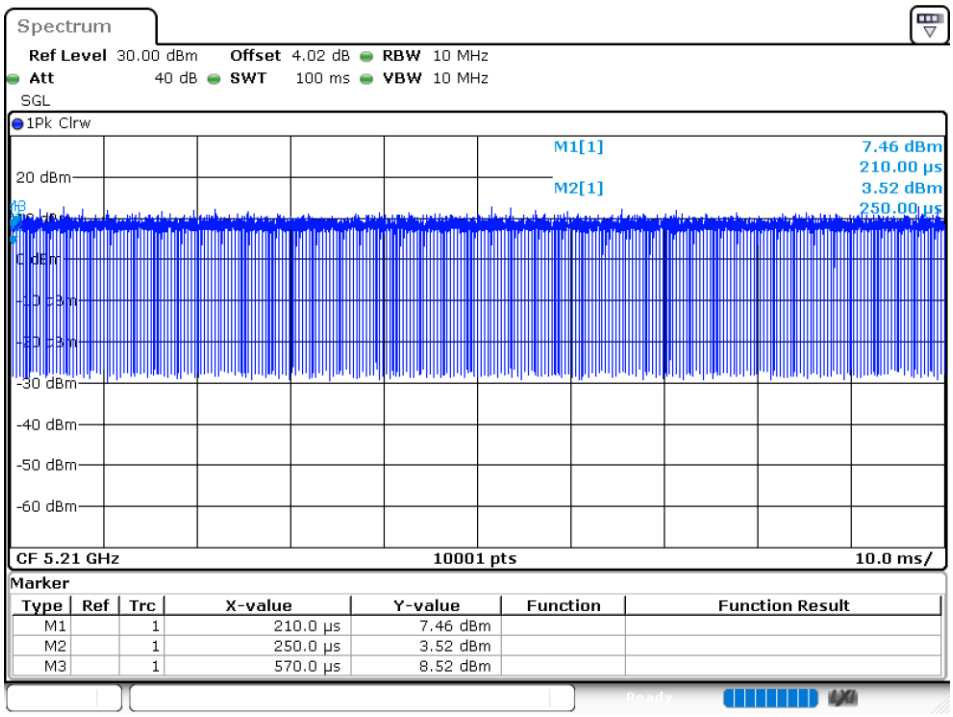
Duty Cycle NVNT ac40 5230MHz Sum



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	560.0 µs	11.39 dBm		
M2		1	610.0 µs	7.08 dBm		
M3		1	1.25 ms	10.11 dBm		

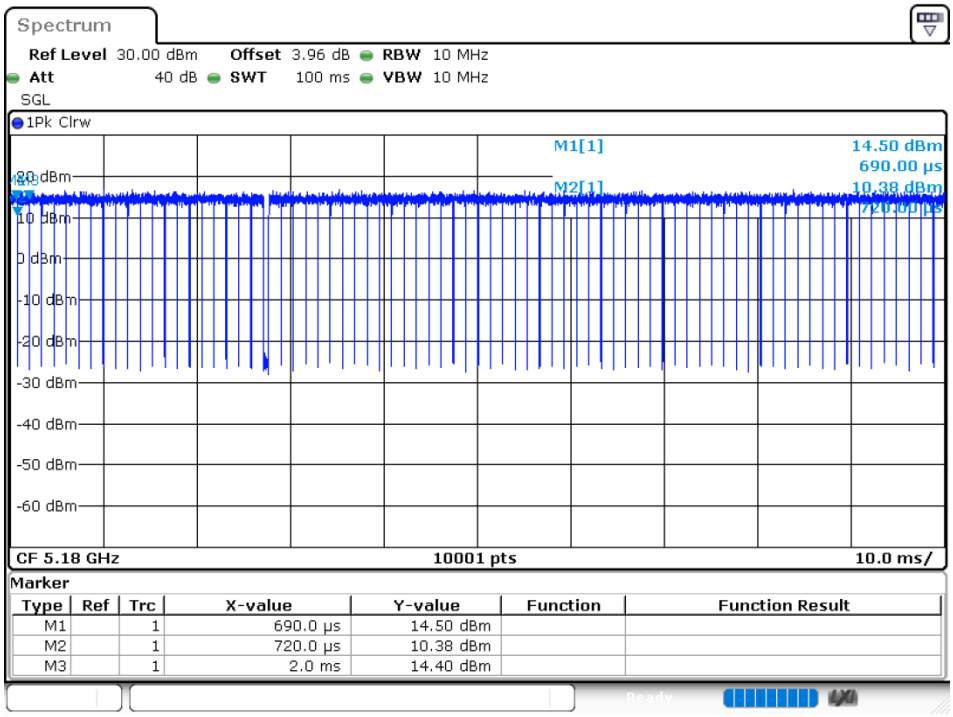
Duty Cycle NVNT ac80 5210MHz Sum



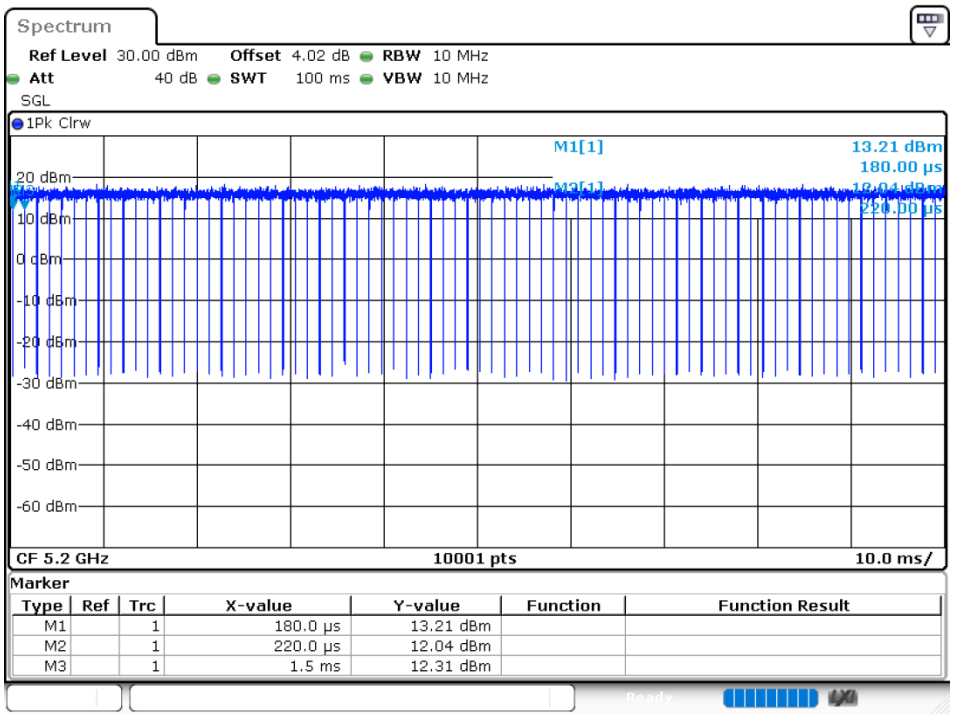
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	210.0 µs	7.46 dBm		
M2		1	250.0 µs	3.52 dBm		
M3		1	570.0 µs	8.52 dBm		

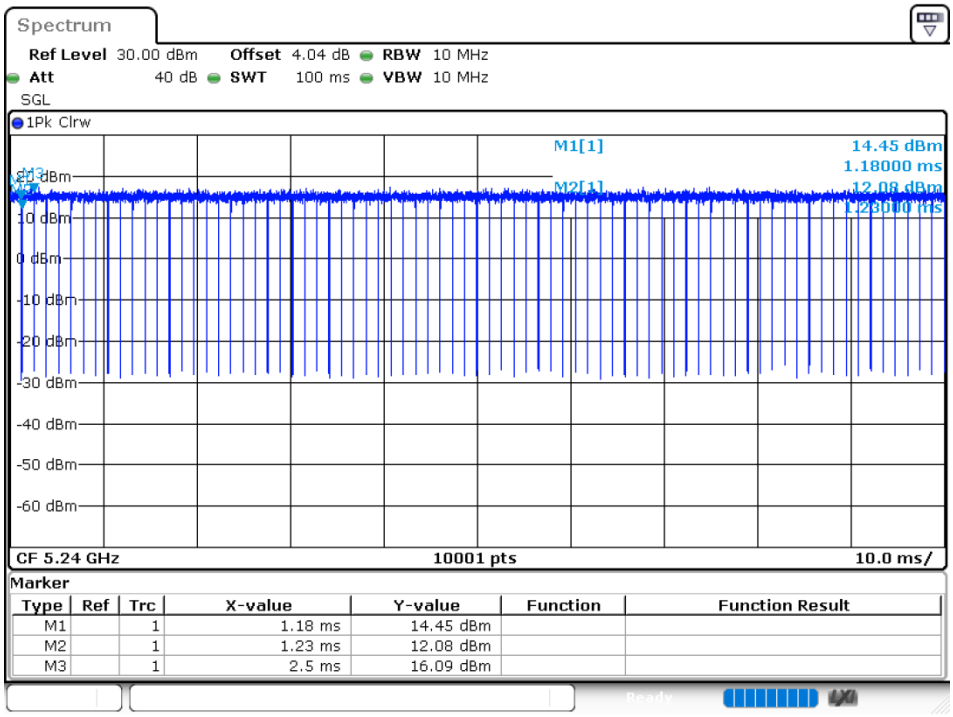
Duty Cycle NVNT n20 5180MHz Sum



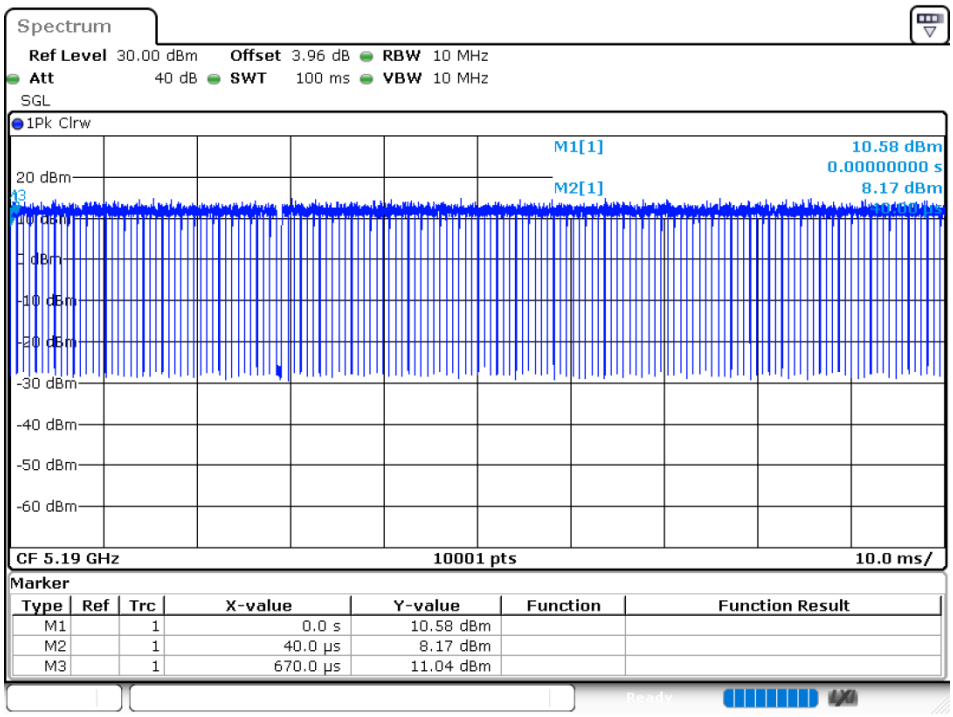
Duty Cycle NVNT n20 5200MHz Sum



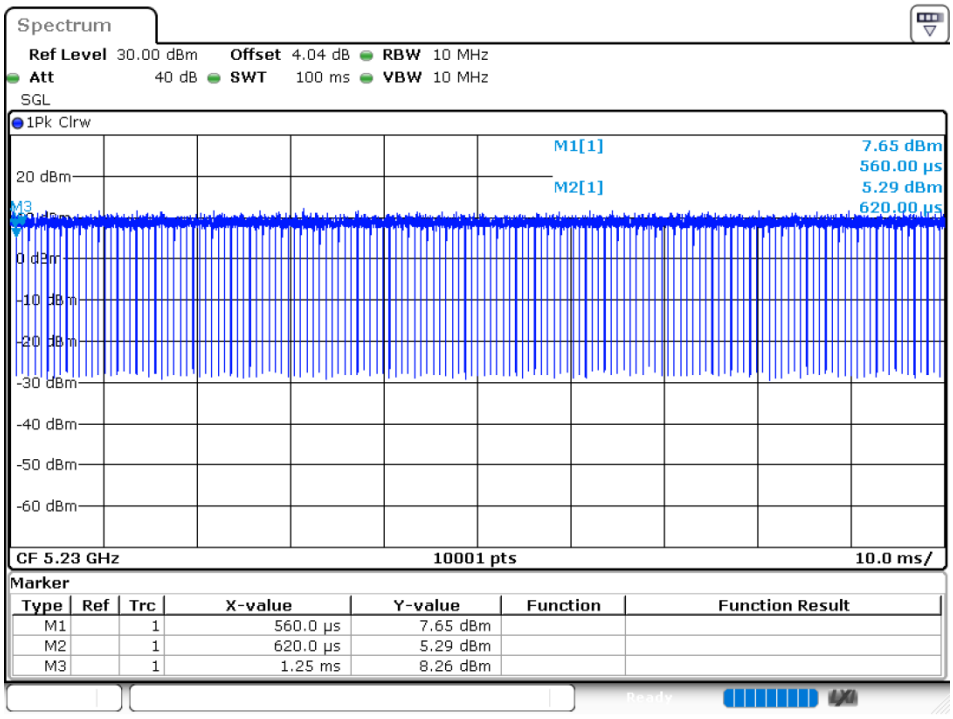
Duty Cycle NVNT n20 5240MHz Sum



Duty Cycle NVNT n40 5190MHz Sum



Duty Cycle NVNT n40 5230MHz Sum



Maximum Conducted Output Power

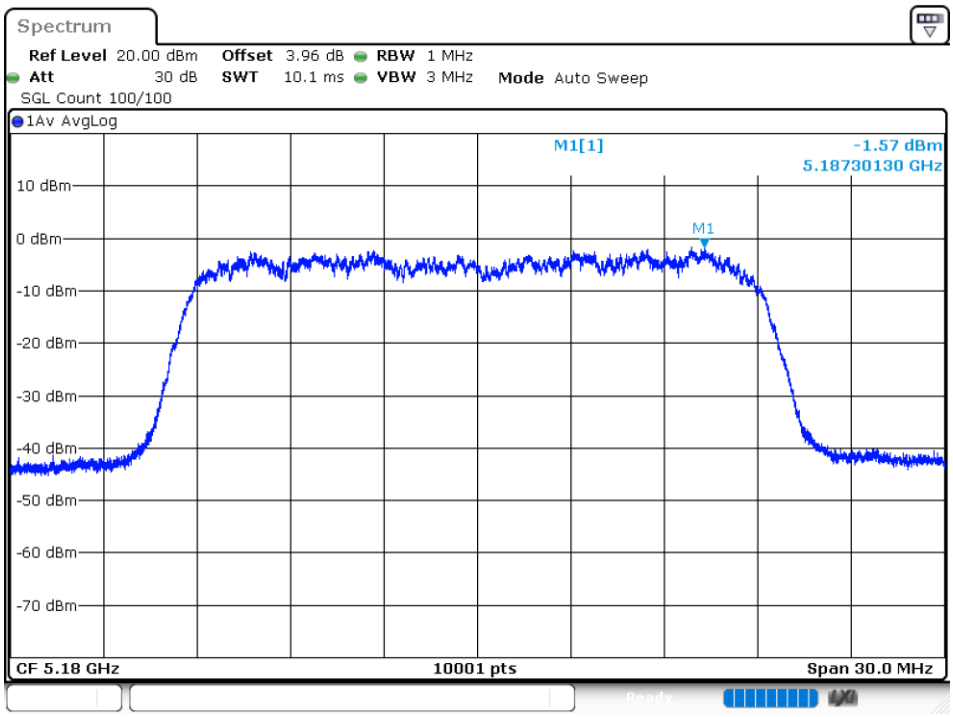
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	11.63	23.89	Pass
NVNT	ac20	5180	Ant2	9.81	23.89	Pass
NVNT	ac20	5180	Sum	13.82	23.89	Pass
NVNT	ac20	5200	Ant1	12.62	23.89	Pass
NVNT	ac20	5200	Ant2	10.25	23.89	Pass
NVNT	ac20	5200	Sum	14.61	23.89	Pass
NVNT	ac20	5240	Ant1	11.58	23.89	Pass
NVNT	ac20	5240	Ant2	9.51	23.89	Pass
NVNT	ac20	5240	Sum	13.68	23.89	Pass
NVNT	ac40	5190	Ant1	10.94	23.89	Pass
NVNT	ac40	5190	Ant2	8.65	23.89	Pass
NVNT	ac40	5190	Sum	12.95	23.89	Pass
NVNT	ac40	5230	Ant1	10.56	23.89	Pass
NVNT	ac40	5230	Ant2	8.51	23.89	Pass
NVNT	ac40	5230	Sum	12.67	23.89	Pass
NVNT	ac80	5210	Ant1	11.53	23.89	Pass
NVNT	ac80	5210	Ant2	8.75	23.89	Pass
NVNT	ac80	5210	Sum	13.37	23.89	Pass
NVNT	n20	5180	Ant1	11.54	23.89	Pass
NVNT	n20	5180	Ant2	9.62	23.89	Pass
NVNT	n20	5180	Sum	13.7	23.89	Pass
NVNT	n20	5200	Ant1	11.45	23.89	Pass
NVNT	n20	5200	Ant2	9.51	23.89	Pass
NVNT	n20	5200	Sum	13.6	23.89	Pass
NVNT	n20	5240	Ant1	11.7	23.89	Pass
NVNT	n20	5240	Ant2	9.7	23.89	Pass
NVNT	n20	5240	Sum	13.82	23.89	Pass
NVNT	n40	5190	Ant1	10.67	23.89	Pass
NVNT	n40	5190	Ant2	8.82	23.89	Pass
NVNT	n40	5190	Sum	12.85	23.89	Pass
NVNT	n40	5230	Ant1	10.8	23.89	Pass
NVNT	n40	5230	Ant2	8.34	23.89	Pass
NVNT	n40	5230	Sum	12.75	23.89	Pass

Maximum Power Spectral Density Level

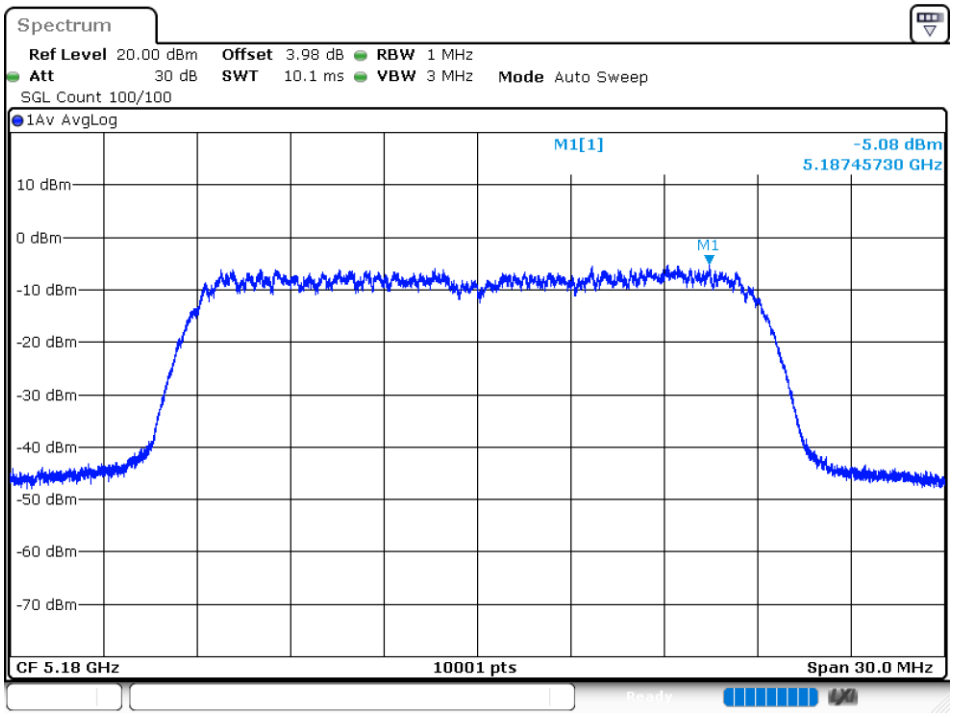
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ac20	5180	Ant1	-1.57	0.13	-1.44	10.89	Pass
NVNT	ac20	5180	Ant2	-5.08	0.13	-4.95	10.89	Pass
NVNT	ac20	5180	Sum	0.03	0.13	0.16	10.89	Pass
NVNT	ac20	5200	Ant1	-0.5	0.1	-0.4	10.89	Pass
NVNT	ac20	5200	Ant2	-13.81	0.1	-13.71	10.89	Pass
NVNT	ac20	5200	Sum	-0.3	0.1	-0.2	10.89	Pass
NVNT	ac20	5240	Ant1	-1.16	0.1	-1.06	10.89	Pass
NVNT	ac20	5240	Ant2	-3.74	0.1	-3.64	10.89	Pass
NVNT	ac20	5240	Sum	0.75	0.1	0.85	10.89	Pass
NVNT	ac40	5190	Ant1	-5.24	0.21	-5.03	10.89	Pass
NVNT	ac40	5190	Ant2	-7.98	0.21	-7.77	10.89	Pass
NVNT	ac40	5190	Sum	-3.39	0.21	-3.18	10.89	Pass
NVNT	ac40	5230	Ant1	-5.89	0.21	-5.68	10.89	Pass
NVNT	ac40	5230	Ant2	-8.76	0.21	-8.55	10.89	Pass
NVNT	ac40	5230	Sum	-4.08	0.21	-3.87	10.89	Pass
NVNT	ac80	5210	Ant1	-8.2	0.39	-7.81	10.89	Pass
NVNT	ac80	5210	Ant2	-38.83	0.39	-38.44	10.89	Pass
NVNT	ac80	5210	Sum	-8.2	0.39	-7.81	10.89	Pass
NVNT	n20	5180	Ant1	-1.88	0.13	-1.75	10.89	Pass
NVNT	n20	5180	Ant2	-32.23	0.13	-32.1	10.89	Pass
NVNT	n20	5180	Sum	-1.88	0.13	-1.75	10.89	Pass
NVNT	n20	5200	Ant1	-0.67	0.11	-0.56	10.89	Pass
NVNT	n20	5200	Ant2	-3.32	0.11	-3.21	10.89	Pass
NVNT	n20	5200	Sum	1.21	0.11	1.32	10.89	Pass
NVNT	n20	5240	Ant1	-0.83	0.1	-0.73	10.89	Pass
NVNT	n20	5240	Ant2	-24.47	0.1	-24.37	10.89	Pass
NVNT	n20	5240	Sum	-0.81	0.1	-0.71	10.89	Pass
NVNT	n40	5190	Ant1	-24.4	0.23	-24.17	10.89	Pass
NVNT	n40	5190	Ant2	-36.59	0.23	-36.36	10.89	Pass
NVNT	n40	5190	Sum	-24.15	0.23	-23.92	10.89	Pass
NVNT	n40	5230	Ant1	-18.18	0.21	-17.97	10.89	Pass
NVNT	n40	5230	Ant2	-15.58	0.21	-15.37	10.89	Pass
NVNT	n40	5230	Sum	-13.68	0.21	-13.47	10.89	Pass

Test Graphs

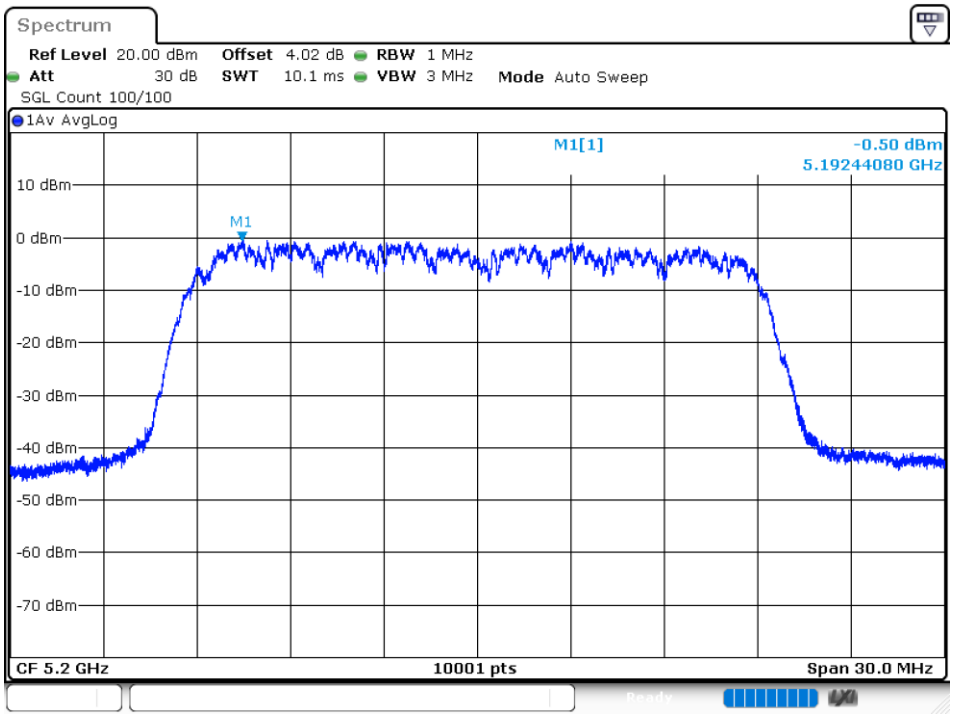
PSD NVNT ac20 5180MHz Ant1



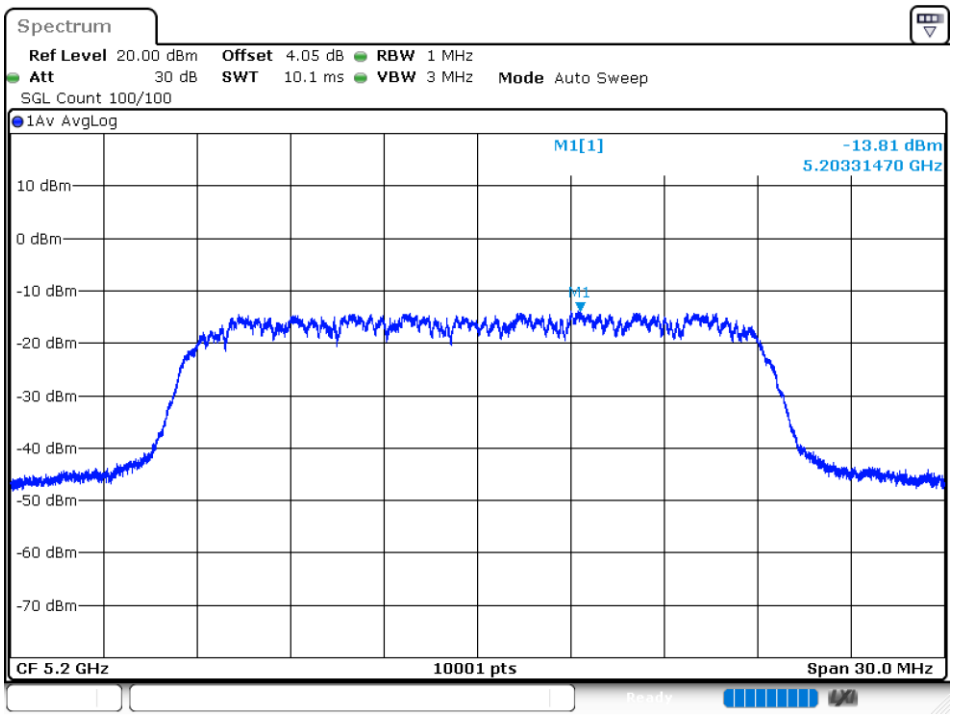
PSD NVNT ac20 5180MHz Ant2



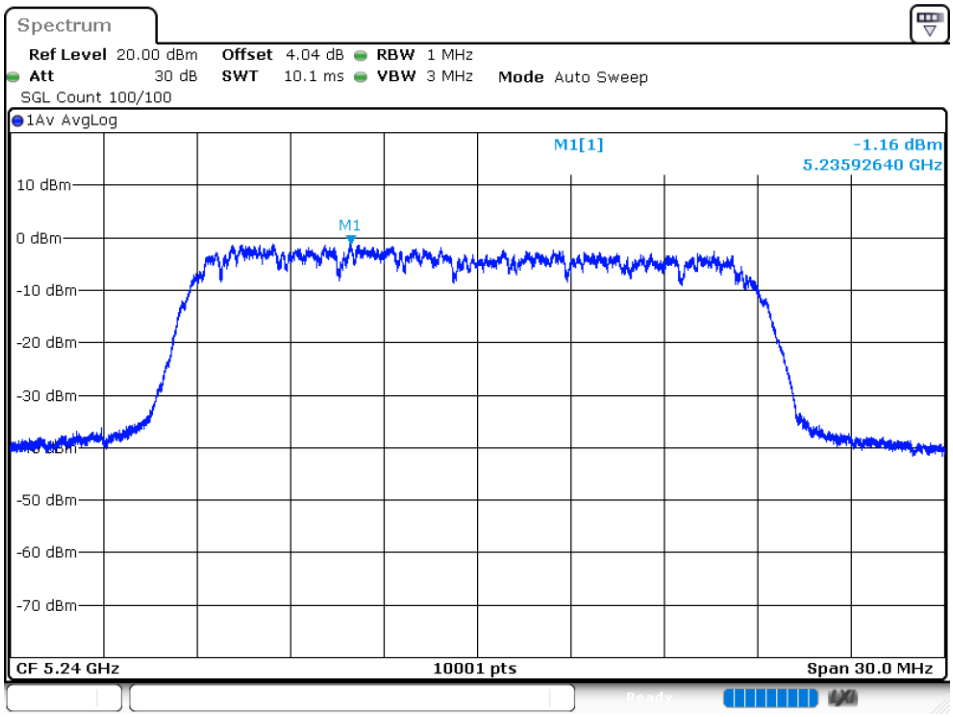
PSD NVNT ac20 5200MHz Ant1



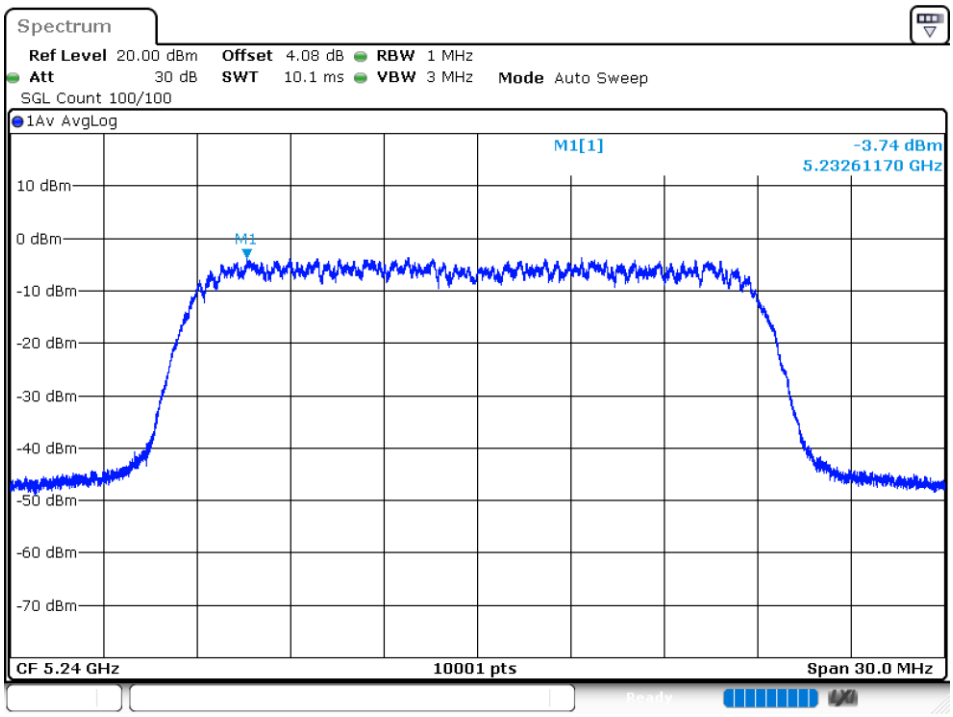
PSD NVNT ac20 5200MHz Ant2



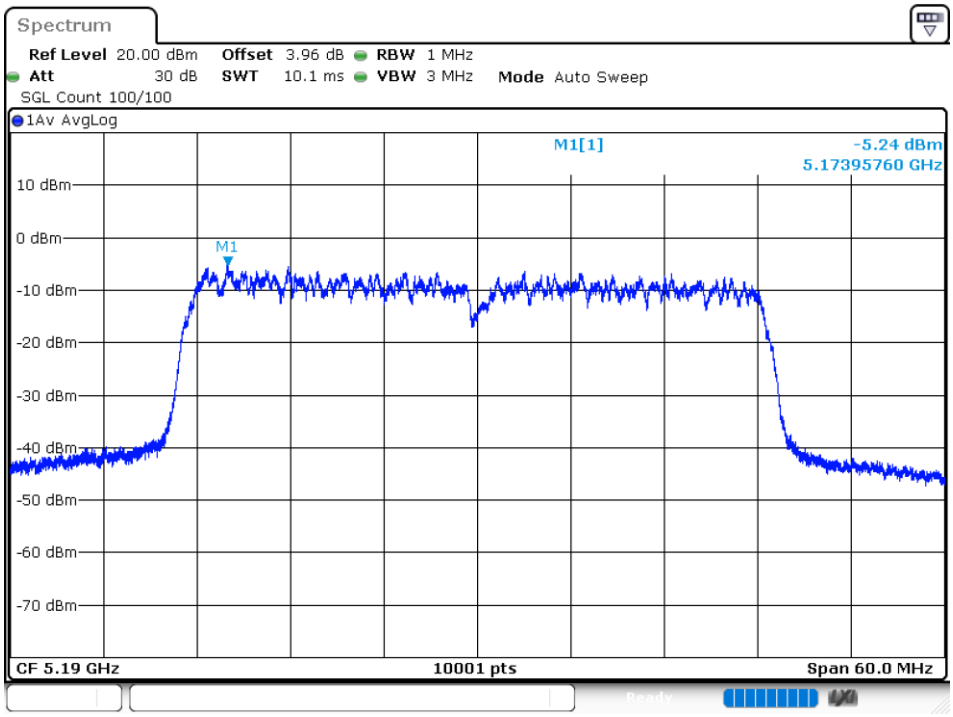
PSD NVNT ac20 5240MHz Ant1



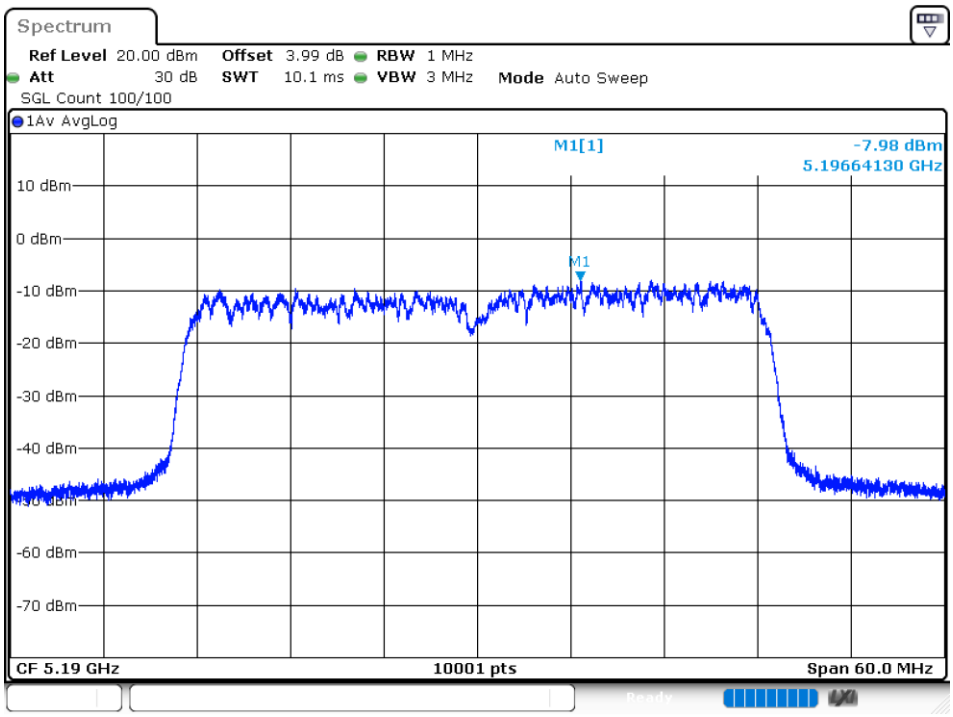
PSD NVNT ac20 5240MHz Ant2



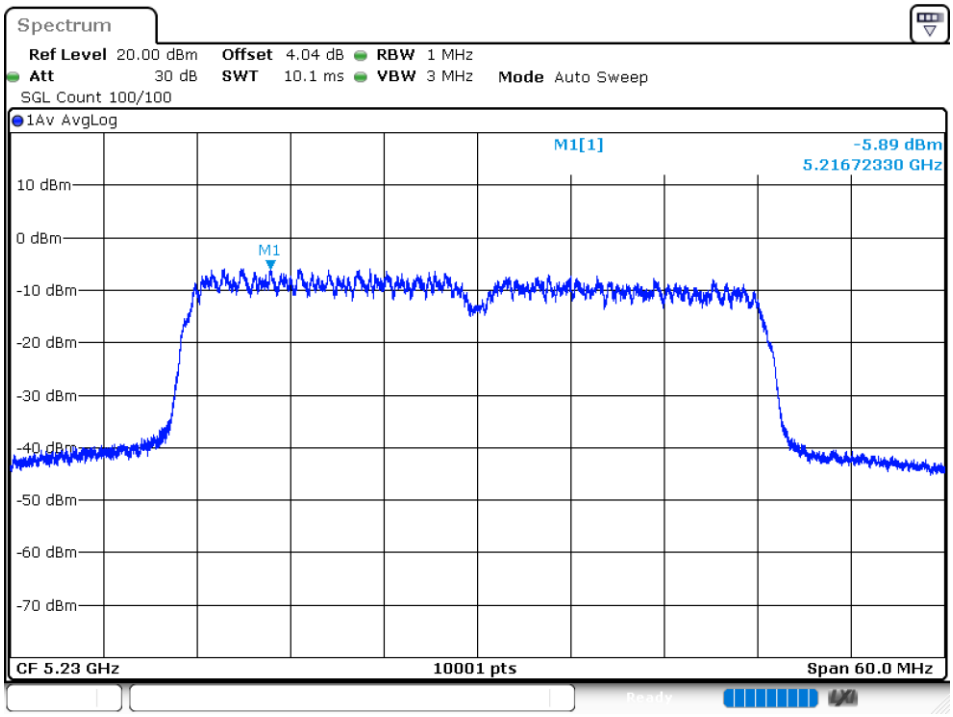
PSD NVNT ac40 5190MHz Ant1



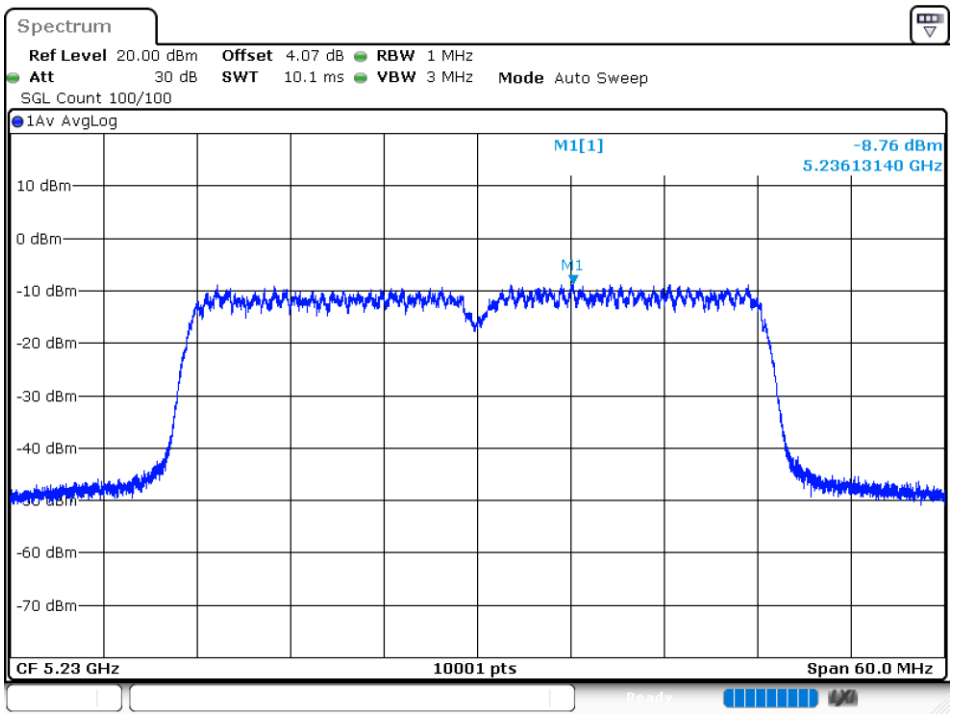
PSD NVNT ac40 5190MHz Ant2



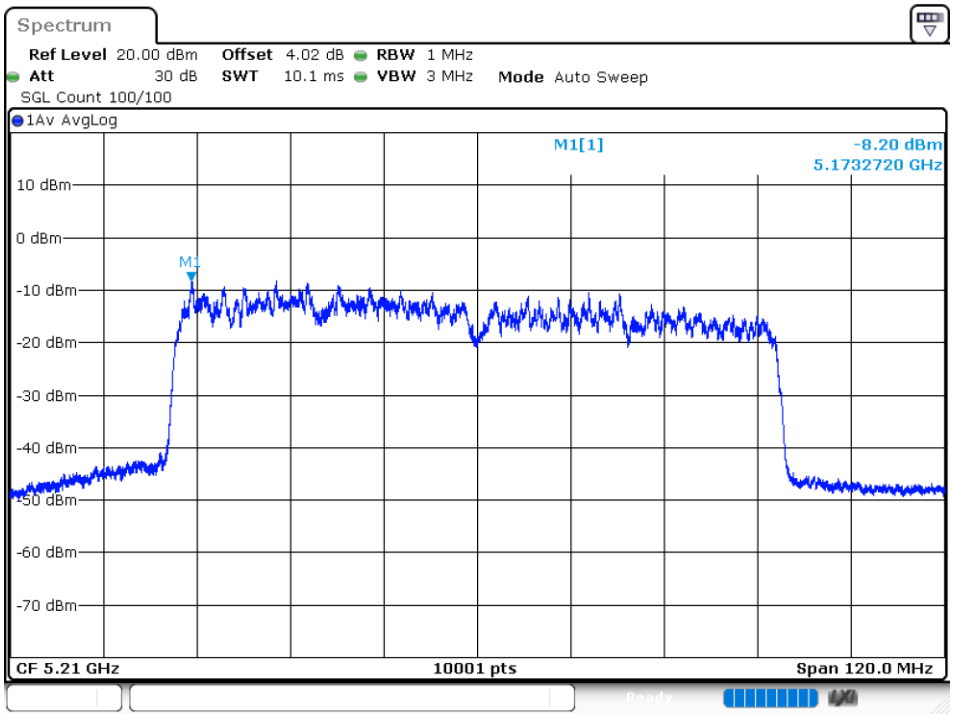
PSD NVNT ac40 5230MHz Ant1



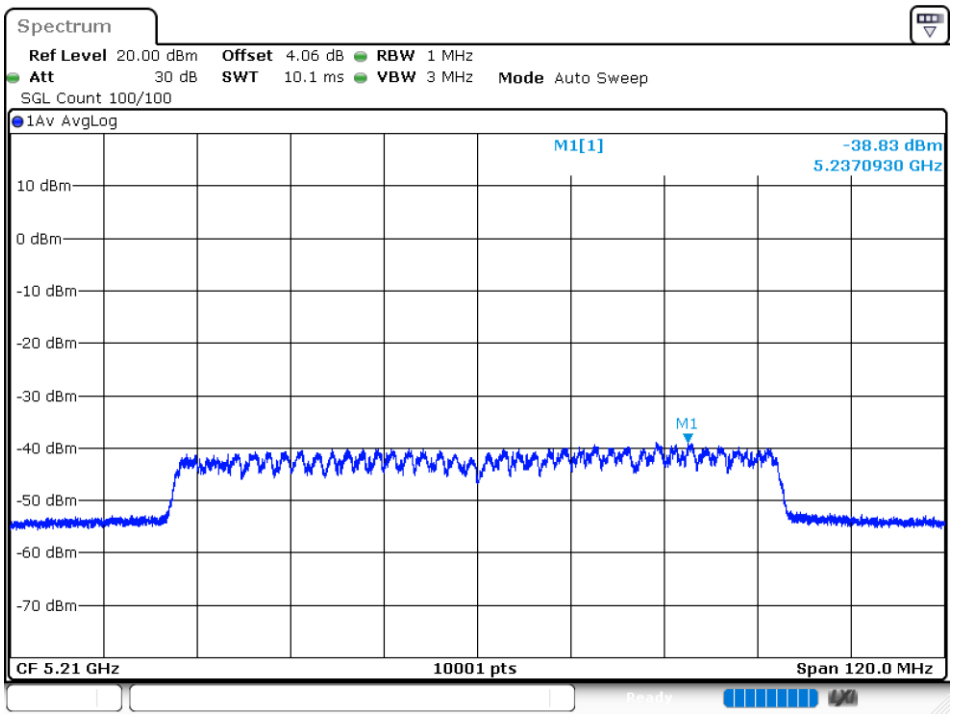
PSD NVNT ac40 5230MHz Ant2



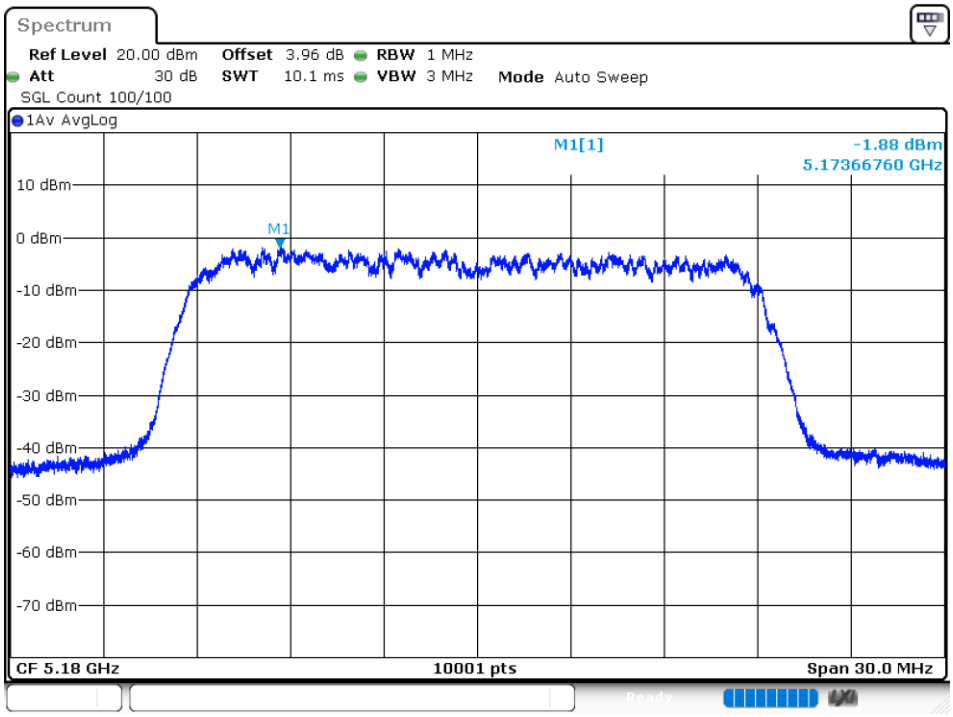
PSD NVNT ac80 5210MHz Ant1



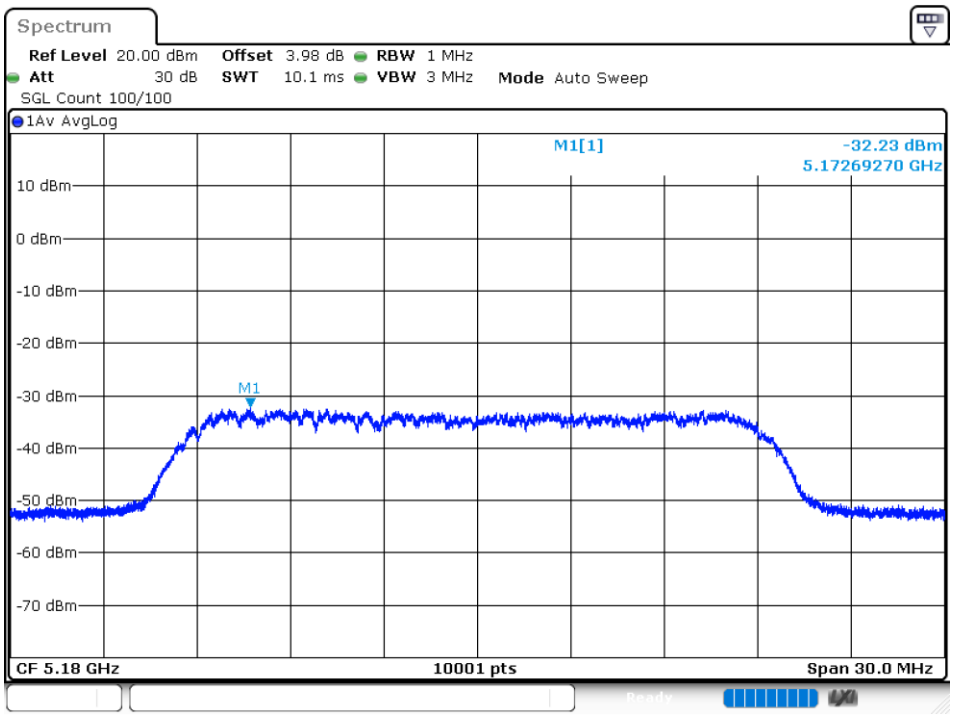
PSD NVNT ac80 5210MHz Ant2



PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5180MHz Ant2



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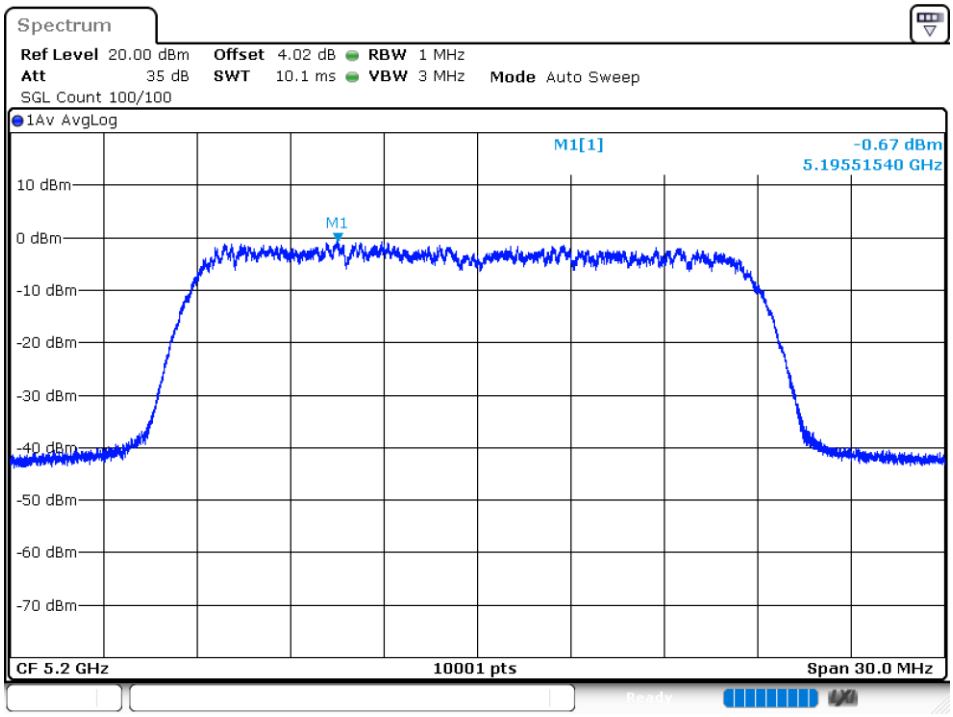
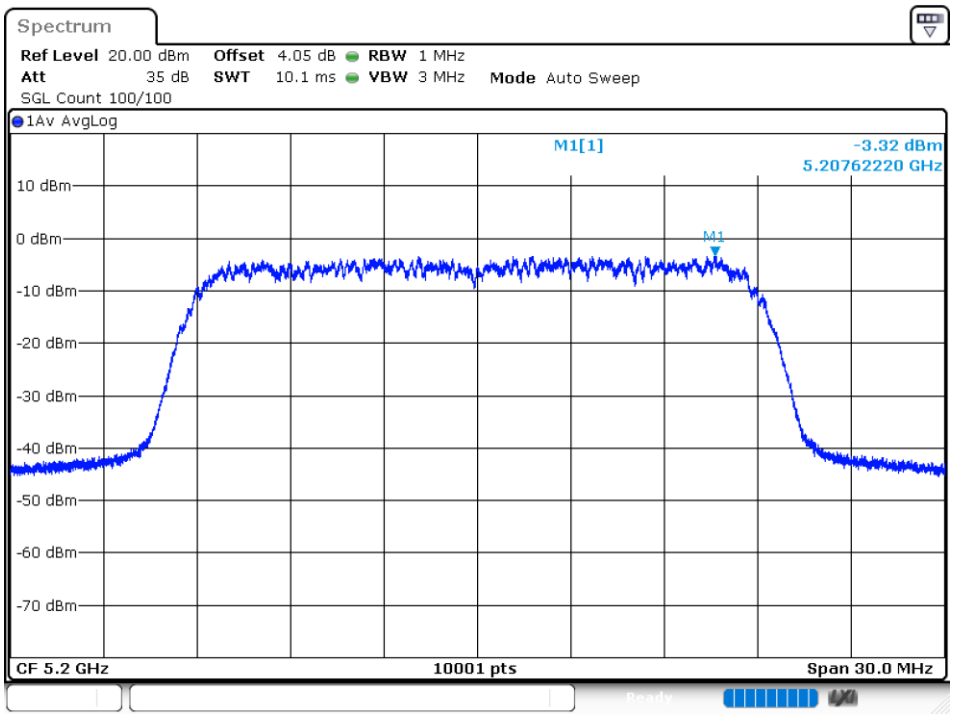
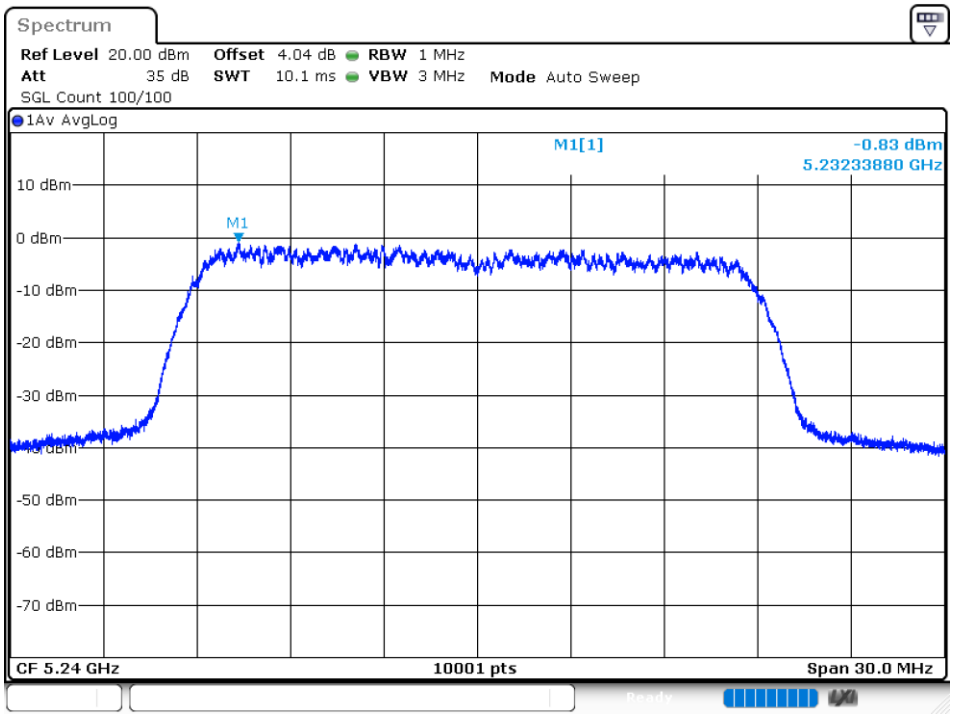


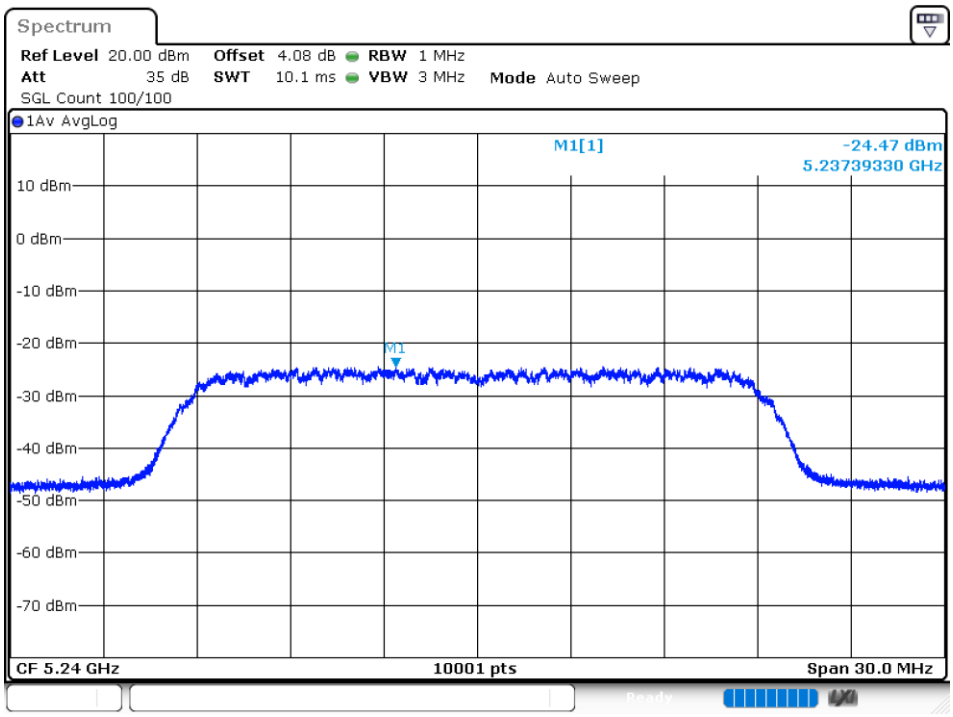
PSD NVNT n20 5200MHz Ant2



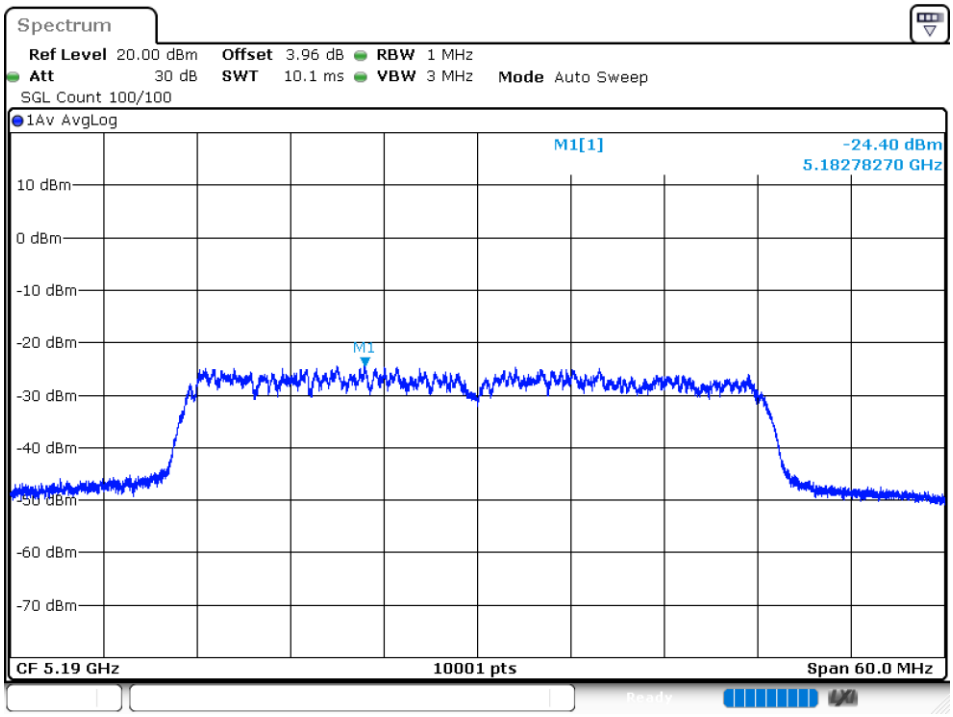
PSD NVNT n20 5240MHz Ant1



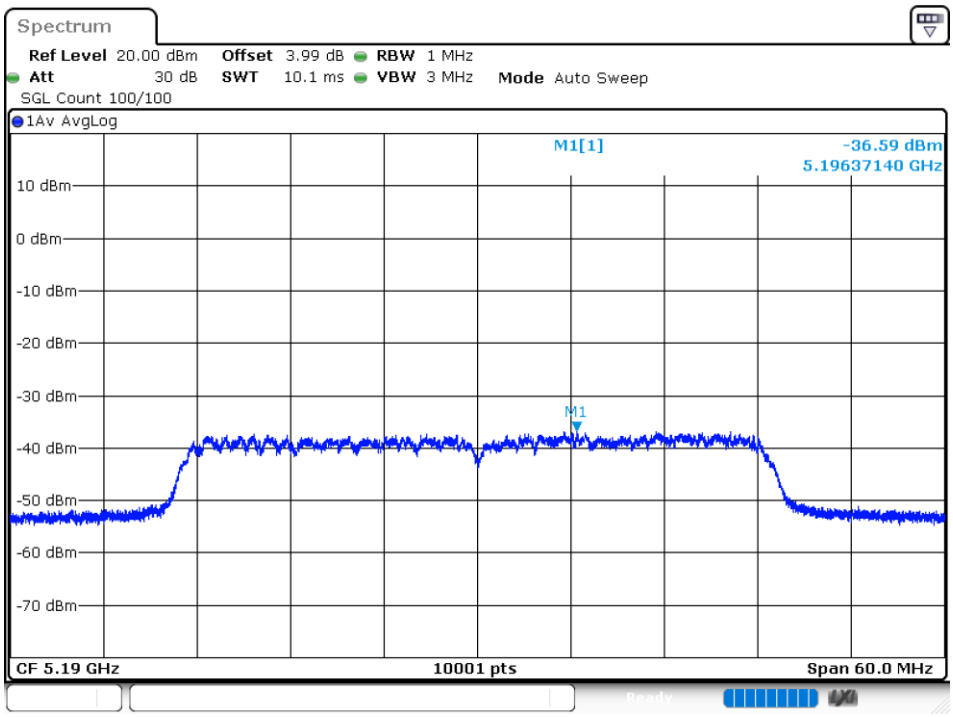
PSD NVNT n20 5240MHz Ant2



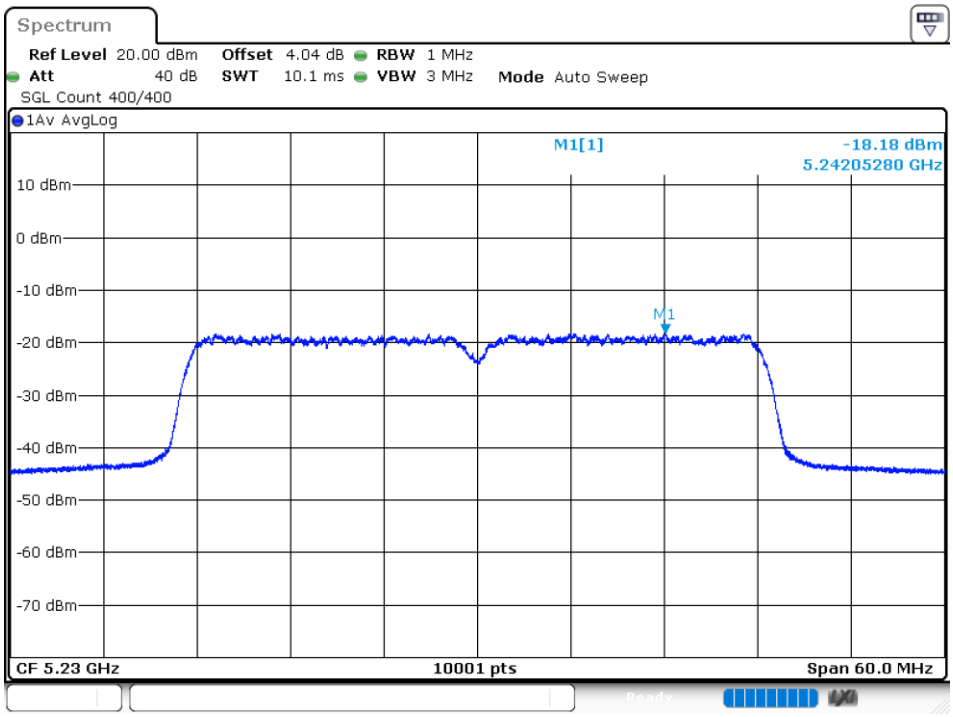
PSD NVNT n40 5190MHz Ant1



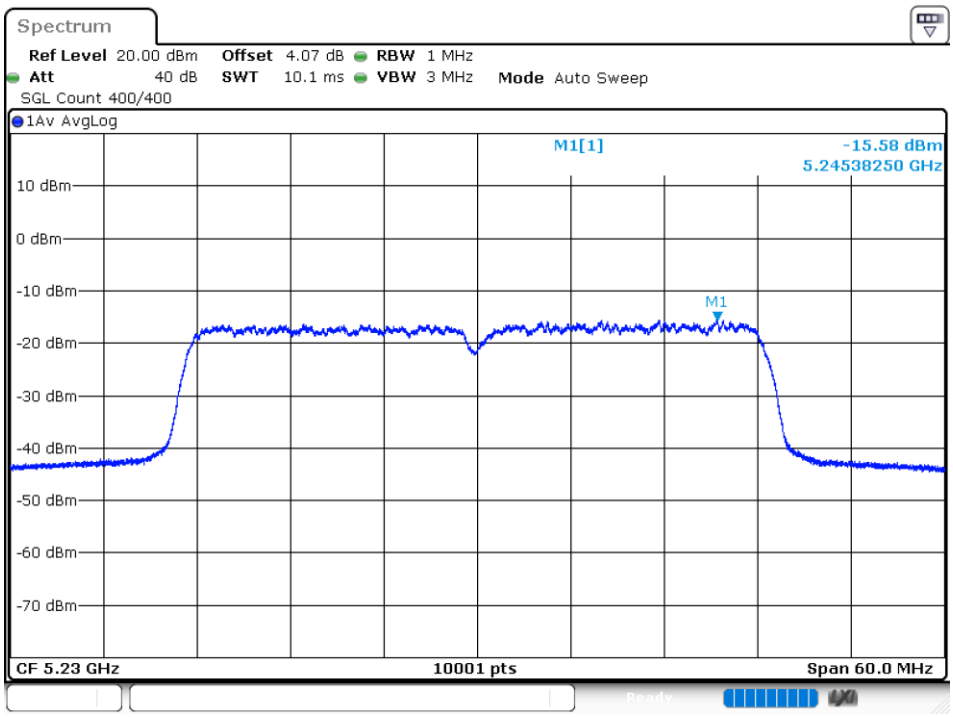
PSD NVNT n40 5190MHz Ant2



PSD NVNT n40 5230MHz Ant1



PSD NVNT n40 5230MHz Ant2

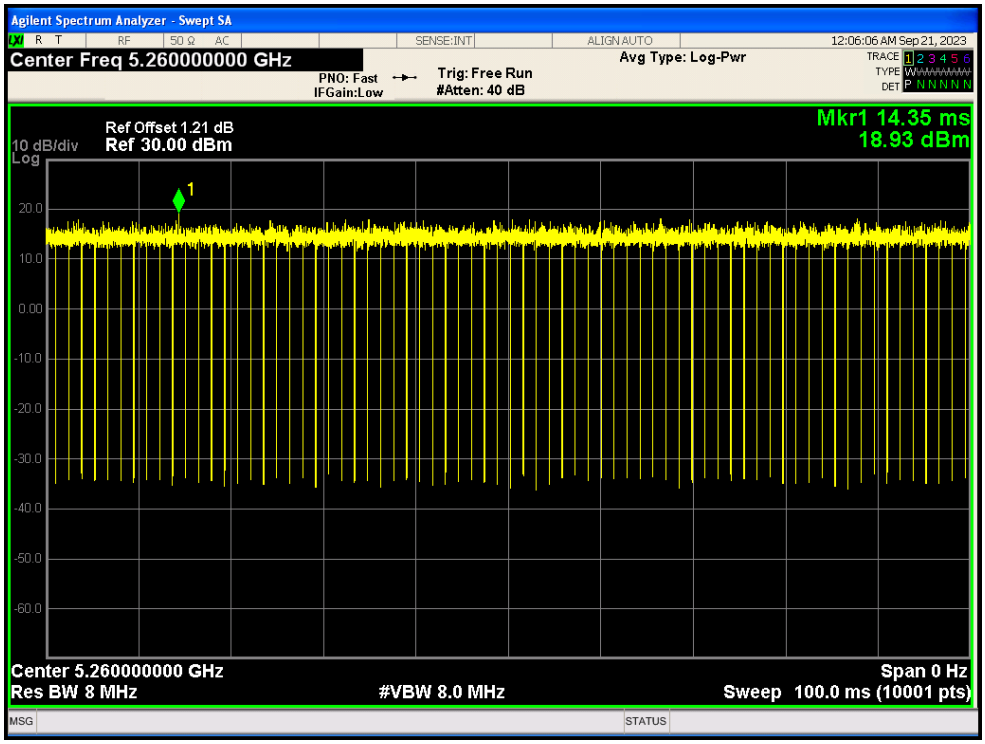


5.3G WIFI

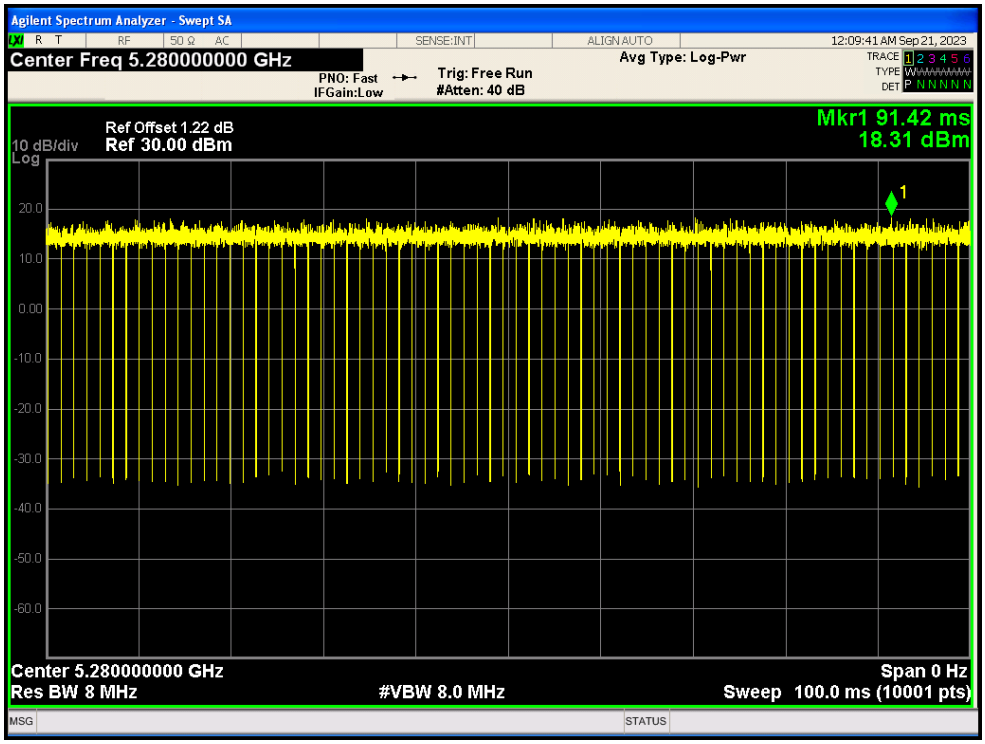
Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	a	5260	Ant1	97.76	0.1
NVNT	a	5280	Ant1	97.78	0.1
NVNT	a	5320	Ant1	97.73	0.1
NVNT	a	5260	Ant2	97.76	0.1
NVNT	a	5280	Ant2	97.78	0.1
NVNT	a	5320	Ant2	97.76	0.1
NVNT	ac20	5260	Ant1	97.71	0.1
NVNT	ac20	5280	Ant1	97.74	0.1
NVNT	ac20	5320	Ant1	97.56	0.11
NVNT	ac20	5260	Ant2	97.65	0.1
NVNT	ac20	5280	Ant2	97.66	0.1
NVNT	ac20	5320	Ant2	97.73	0.1
NVNT	ac40	5270	Ant1	95.3	0.21
NVNT	ac40	5310	Ant1	95.32	0.21
NVNT	ac40	5270	Ant2	95.31	0.21
NVNT	ac40	5310	Ant2	95.28	0.21
NVNT	ac80	5290	Ant1	91.53	0.38
NVNT	ac80	5290	Ant2	91.62	0.38
NVNT	n20	5260	Ant1	97.61	0.11
NVNT	n20	5280	Ant1	97.65	0.1
NVNT	n20	5320	Ant1	97.6	0.11
NVNT	n20	5260	Ant2	97.7	0.1
NVNT	n20	5280	Ant2	97.67	0.1
NVNT	n20	5320	Ant2	97.67	0.1
NVNT	n40	5270	Ant1	95.44	0.2
NVNT	n40	5310	Ant1	95.36	0.21
NVNT	n40	5270	Ant2	95.39	0.2
NVNT	n40	5310	Ant2	95.37	0.21

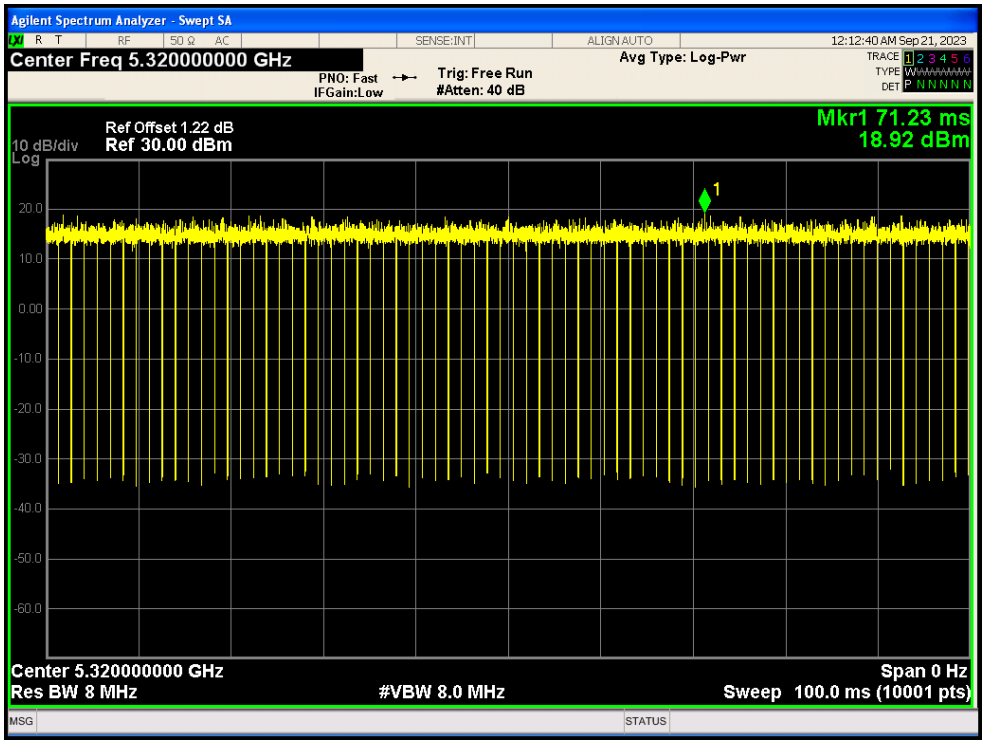
Duty Cycle NVNT a 5260MHz Ant1



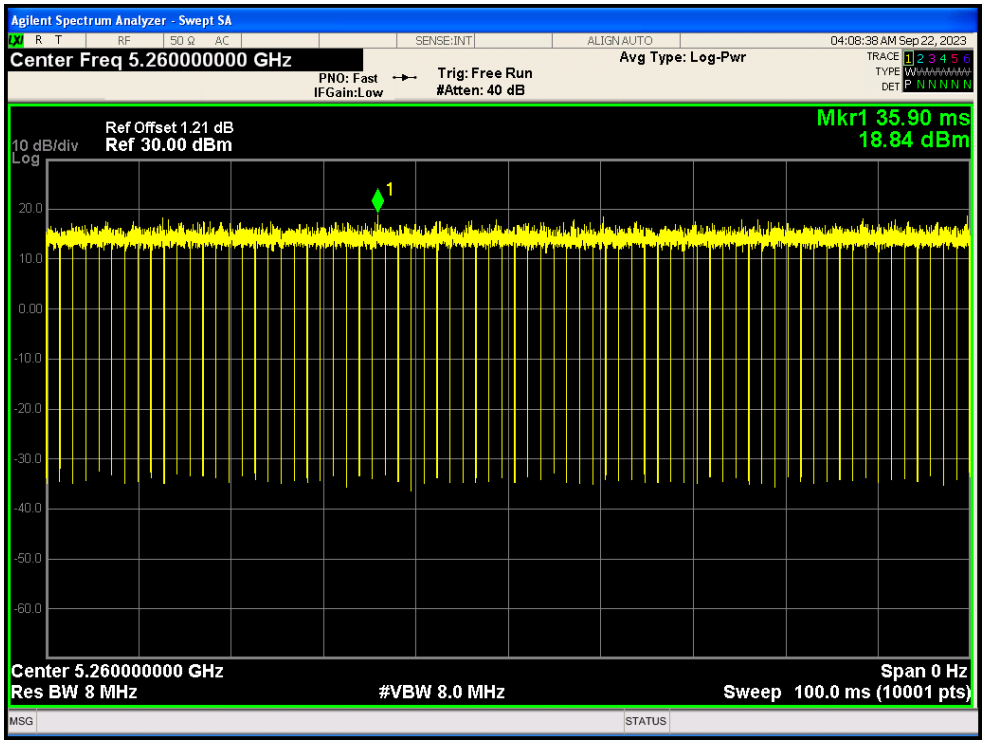
Duty Cycle NVNT a 5280MHz Ant1



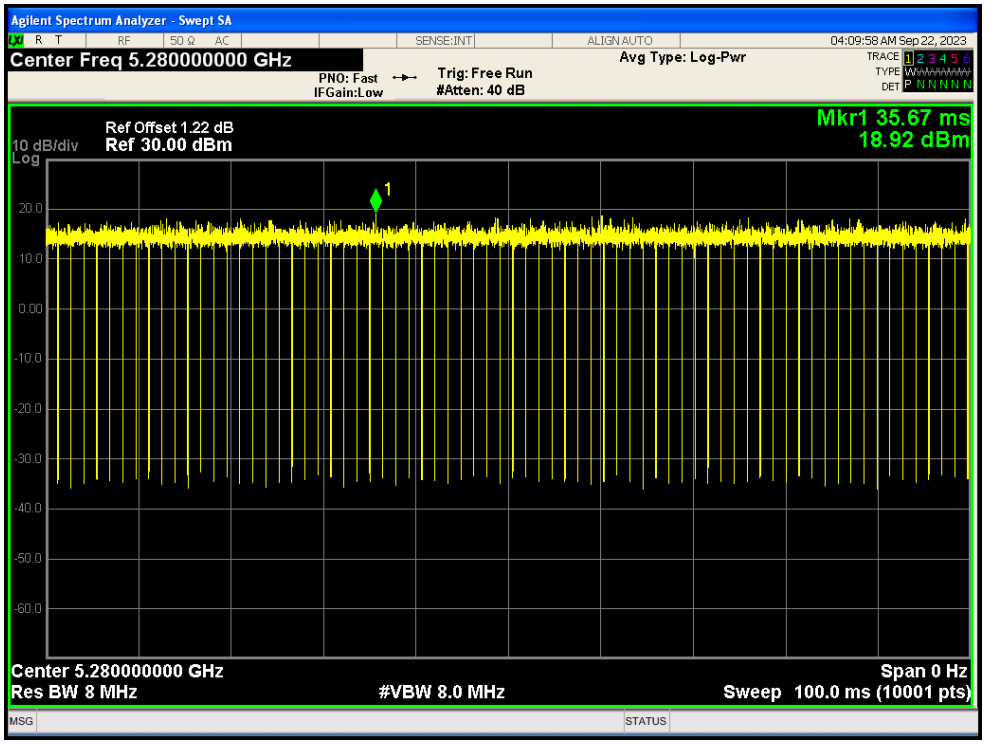
Duty Cycle NVNT a 5320MHz Ant1



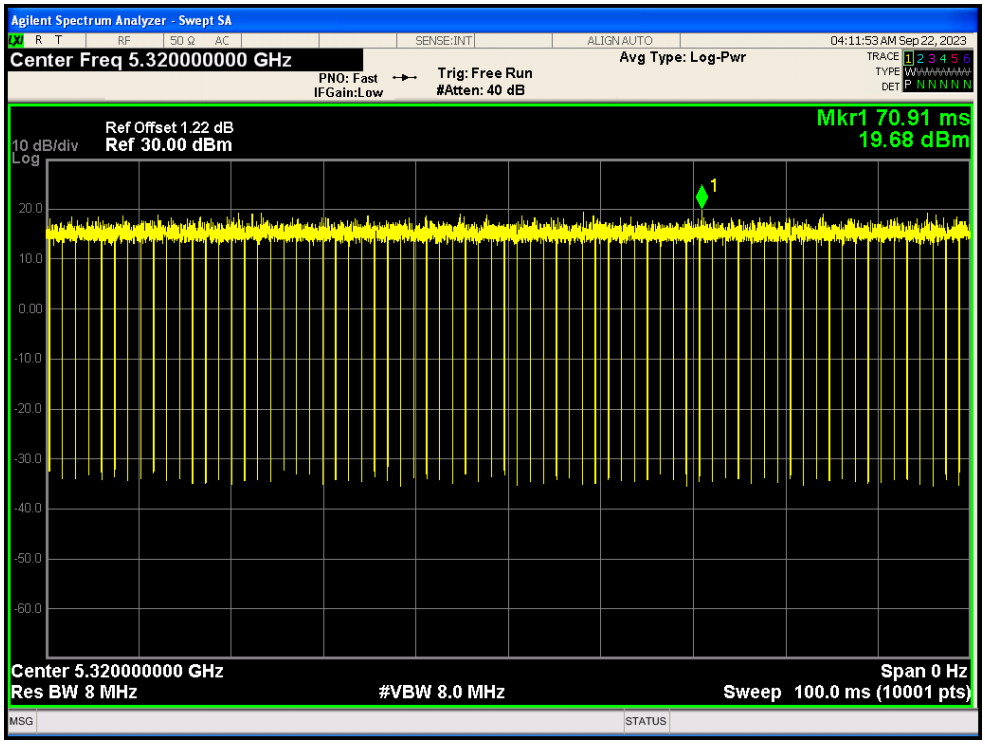
Duty Cycle NVNT a 5260MHz Ant2



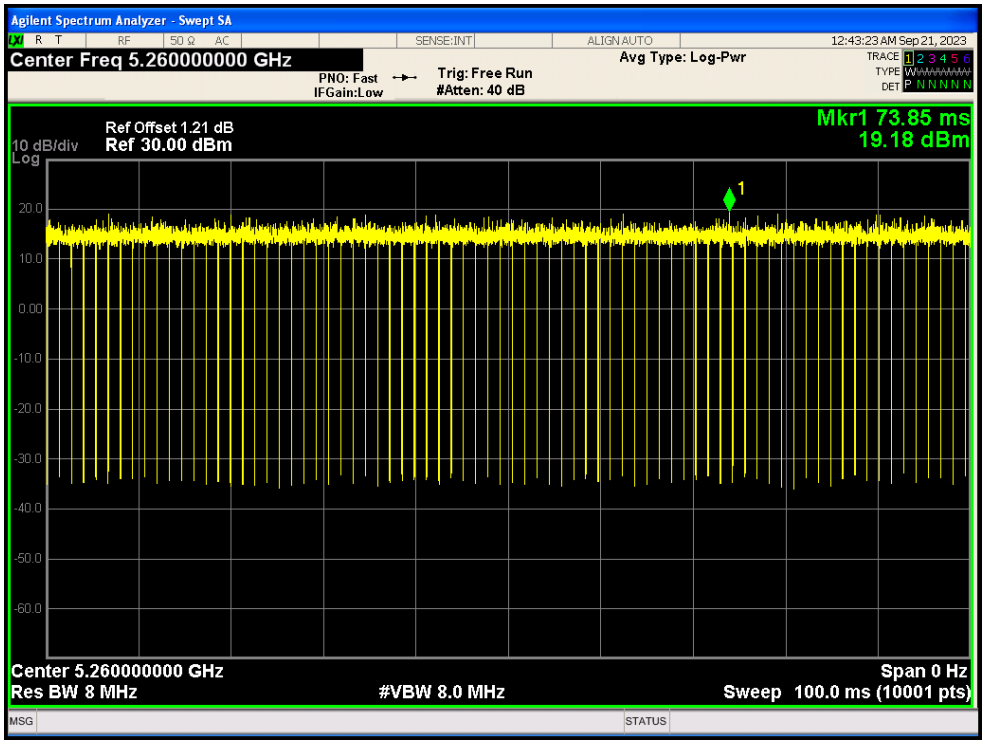
Duty Cycle NVNT a 5280MHz Ant2



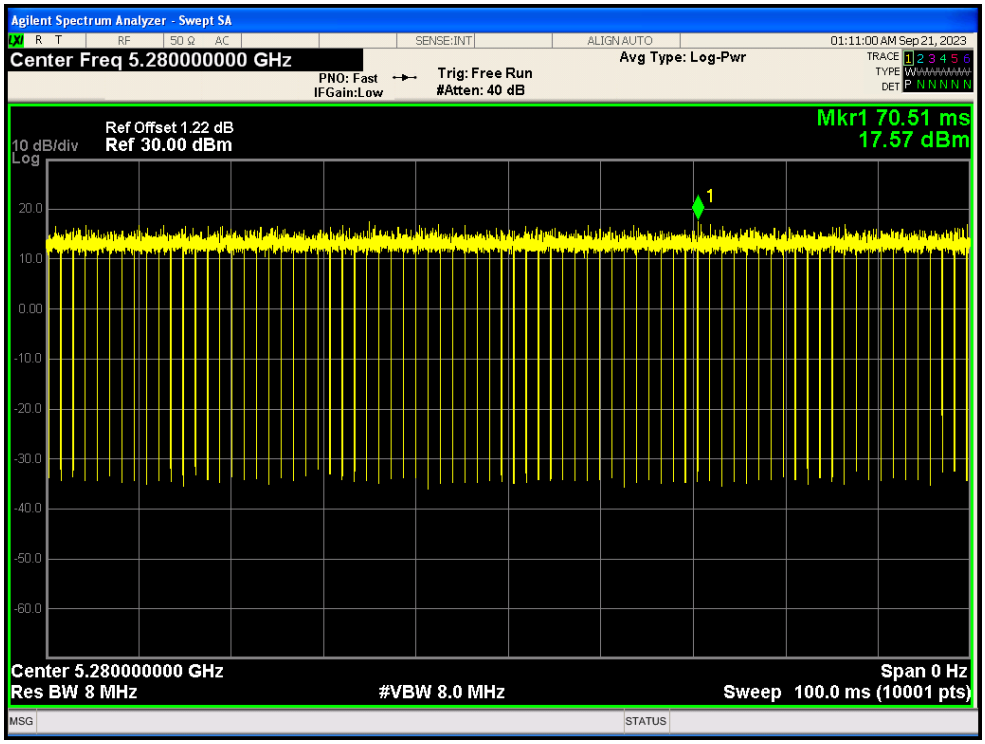
Duty Cycle NVNT a 5320MHz Ant2



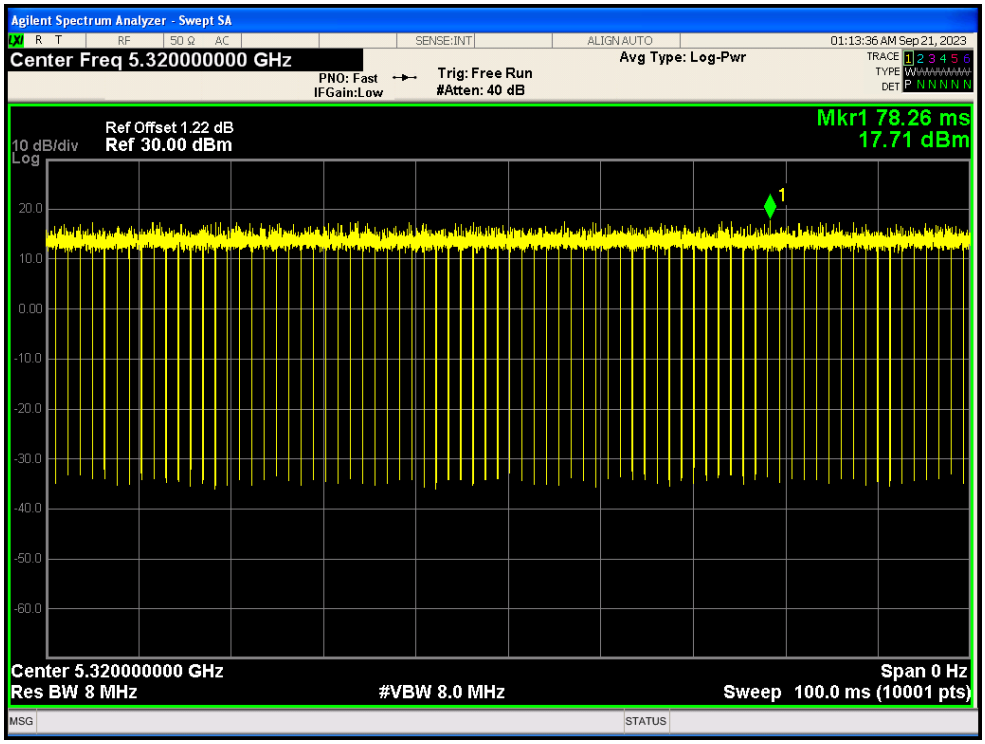
Duty Cycle NVNT ac20 5260MHz Ant1



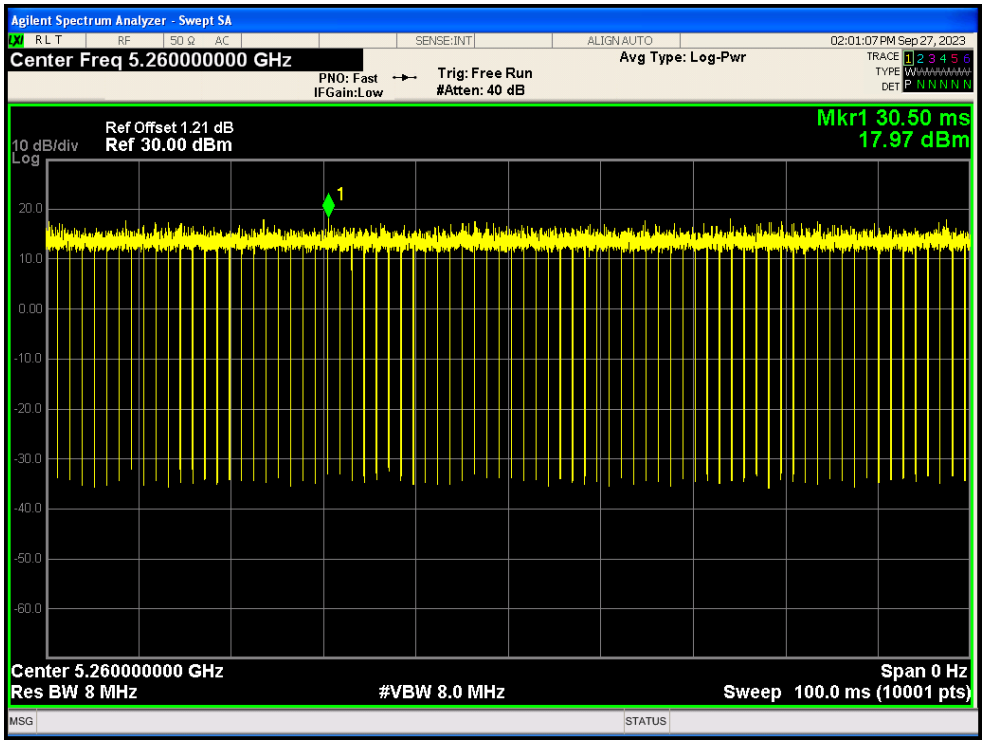
Duty Cycle NVNT ac20 5280MHz Ant1



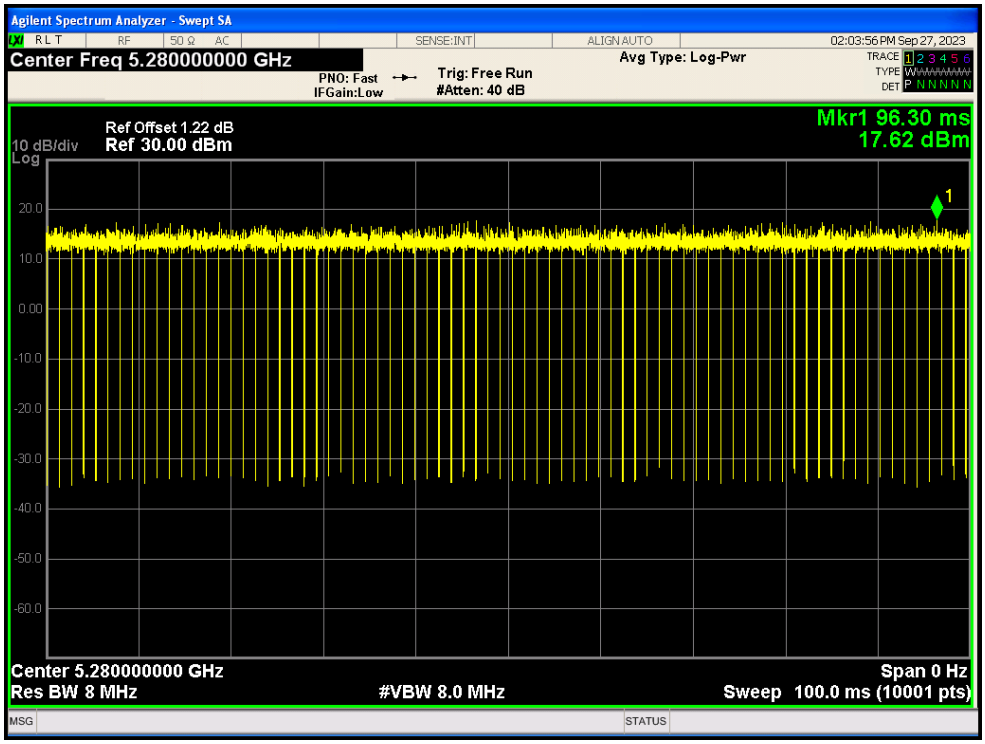
Duty Cycle NVNT ac20 5320MHz Ant1



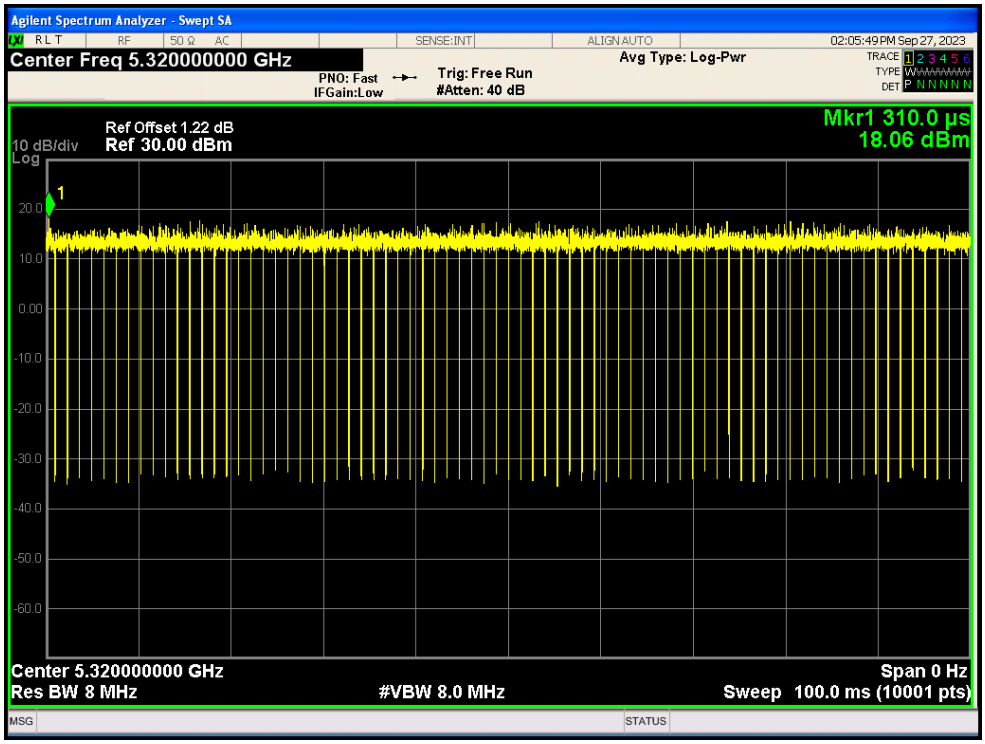
Duty Cycle NVNT ac20 5260MHz Ant2



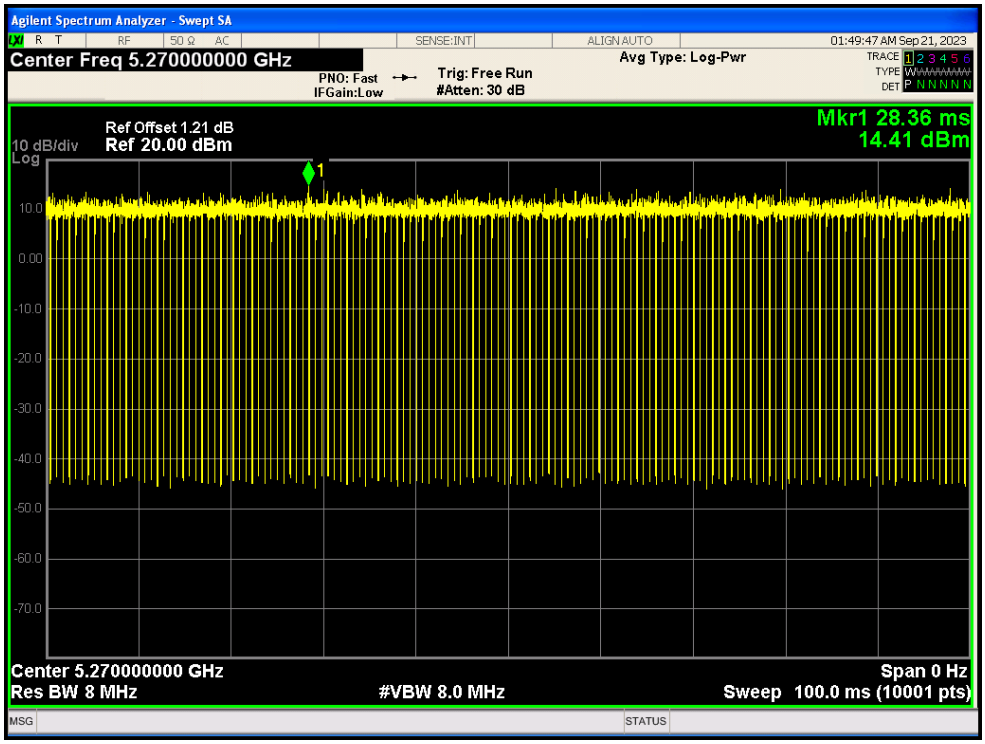
Duty Cycle NVNT ac20 5280MHz Ant2



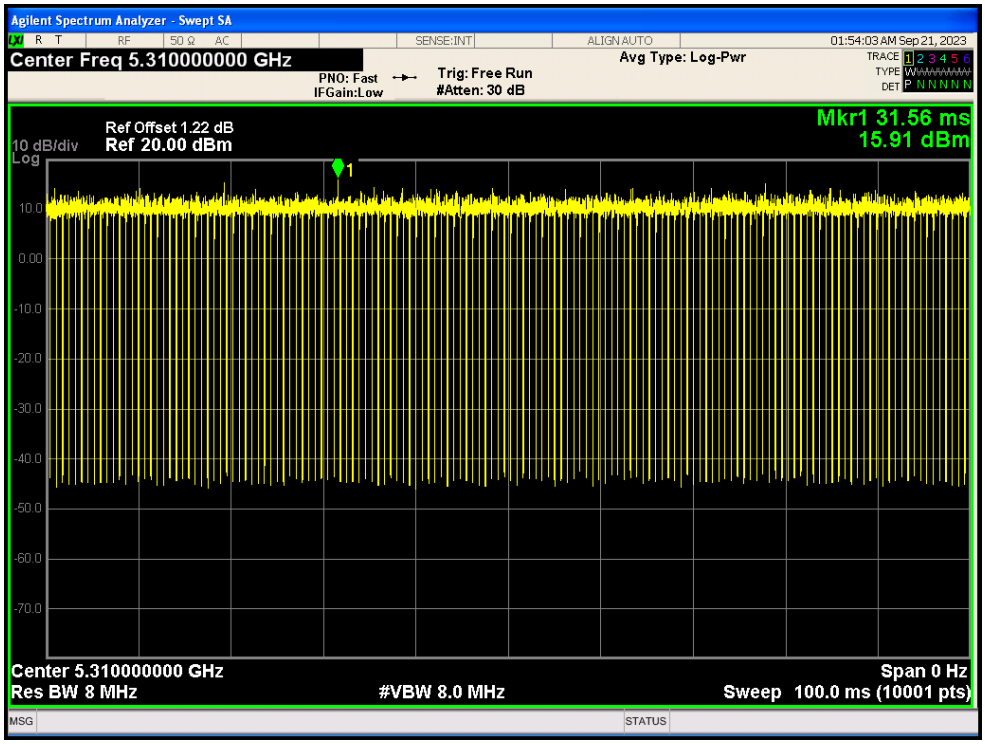
Duty Cycle NVNT ac20 5320MHz Ant2



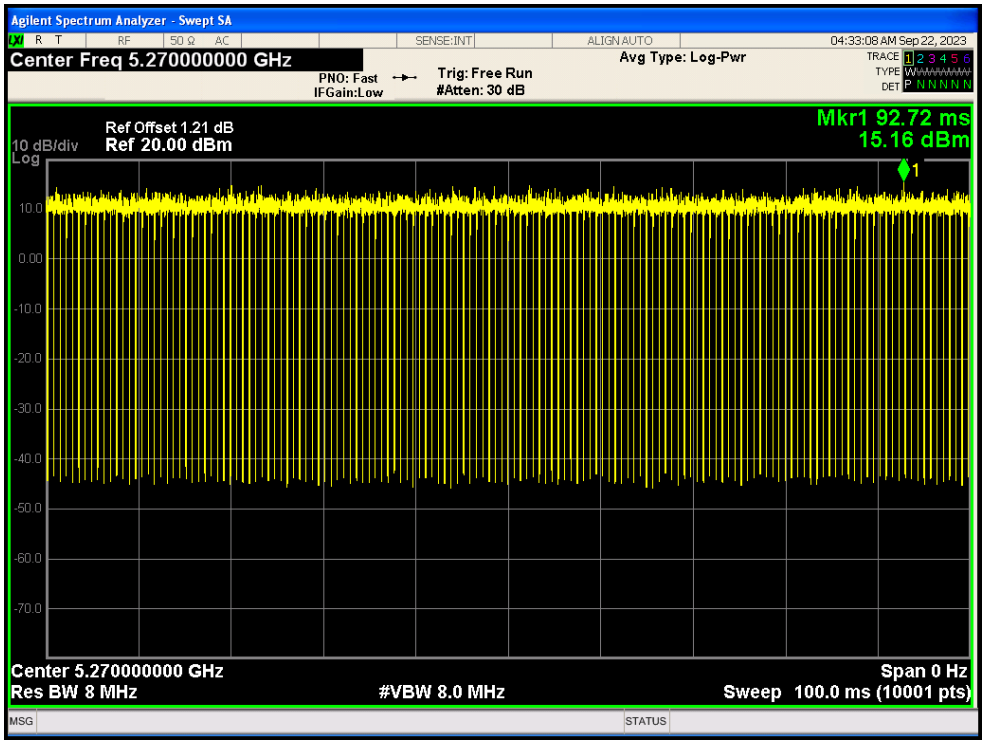
Duty Cycle NVNT ac40 5270MHz Ant1



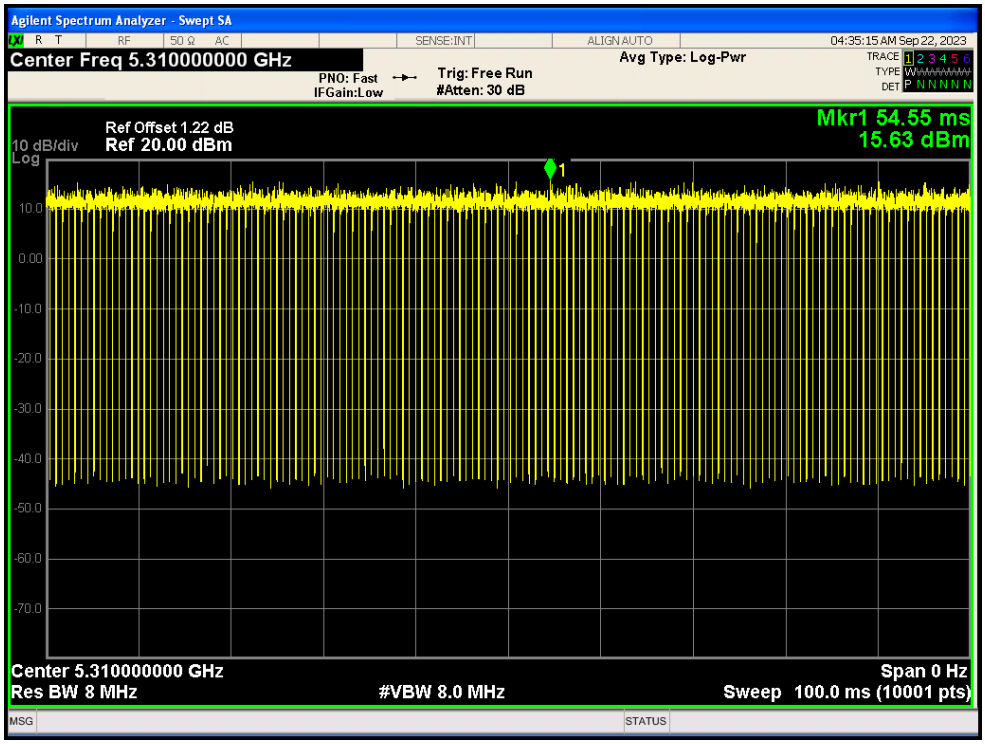
Duty Cycle NVNT ac40 5310MHz Ant1



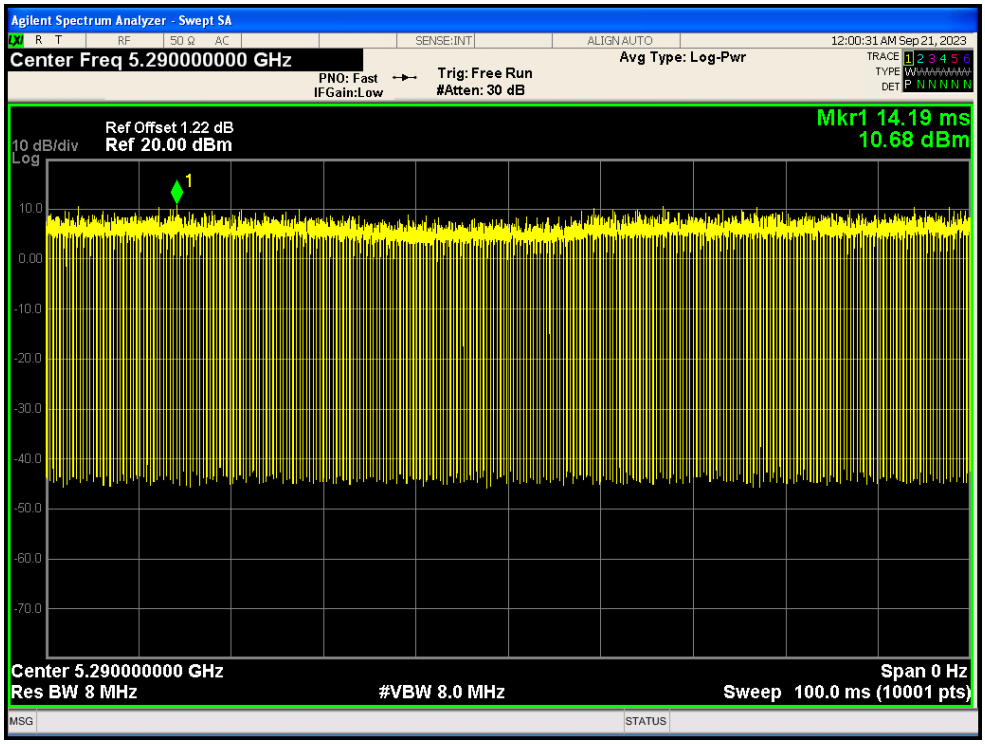
Duty Cycle NVNT ac40 5270MHz Ant2



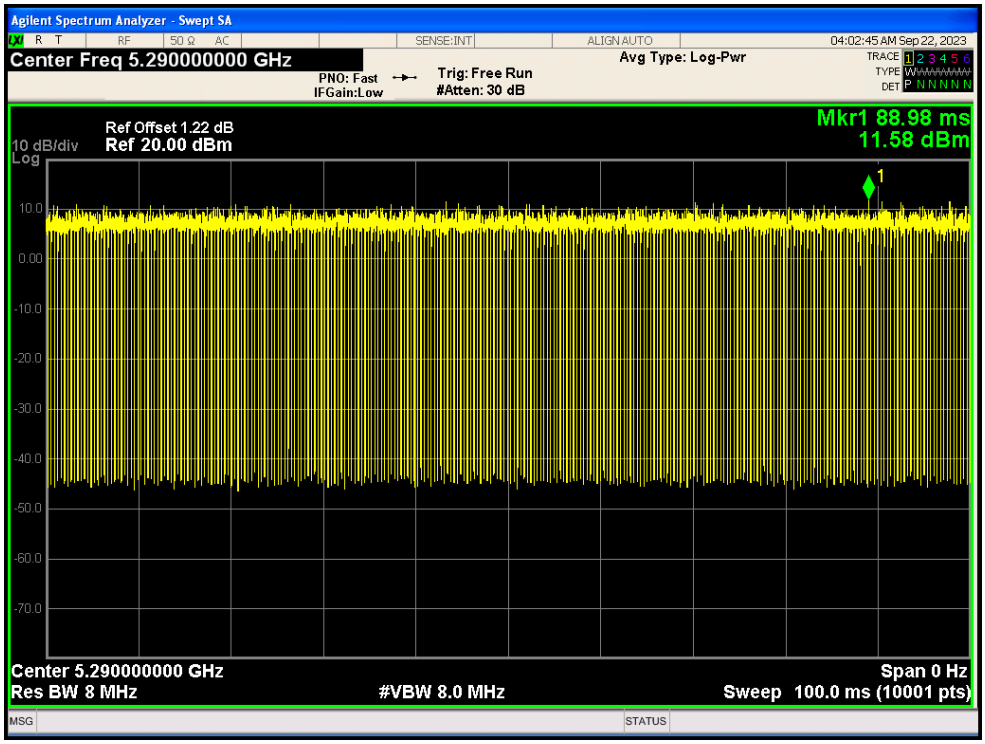
Duty Cycle NVNT ac40 5310MHz Ant2



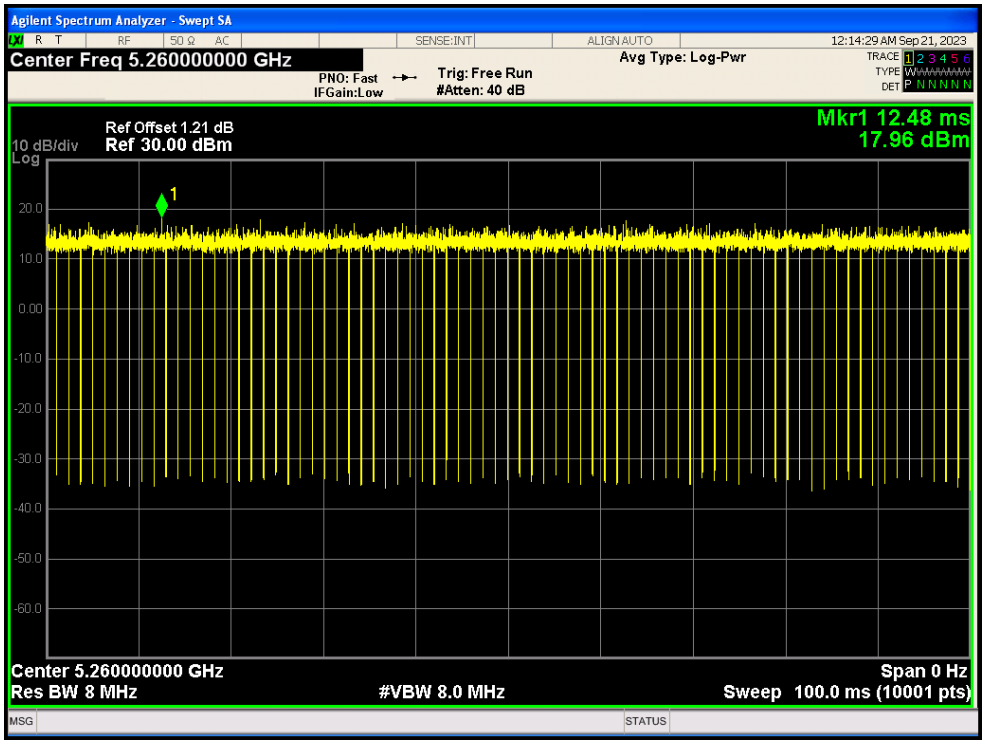
Duty Cycle NVNT ac80 5290MHz Ant1



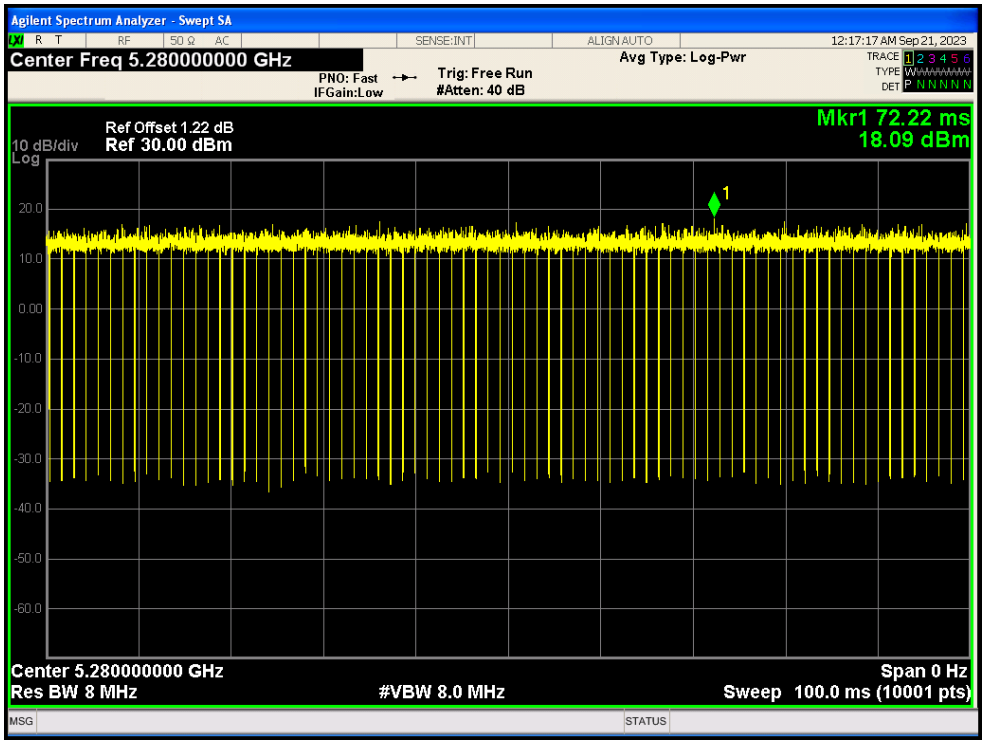
Duty Cycle NVNT ac80 5290MHz Ant2



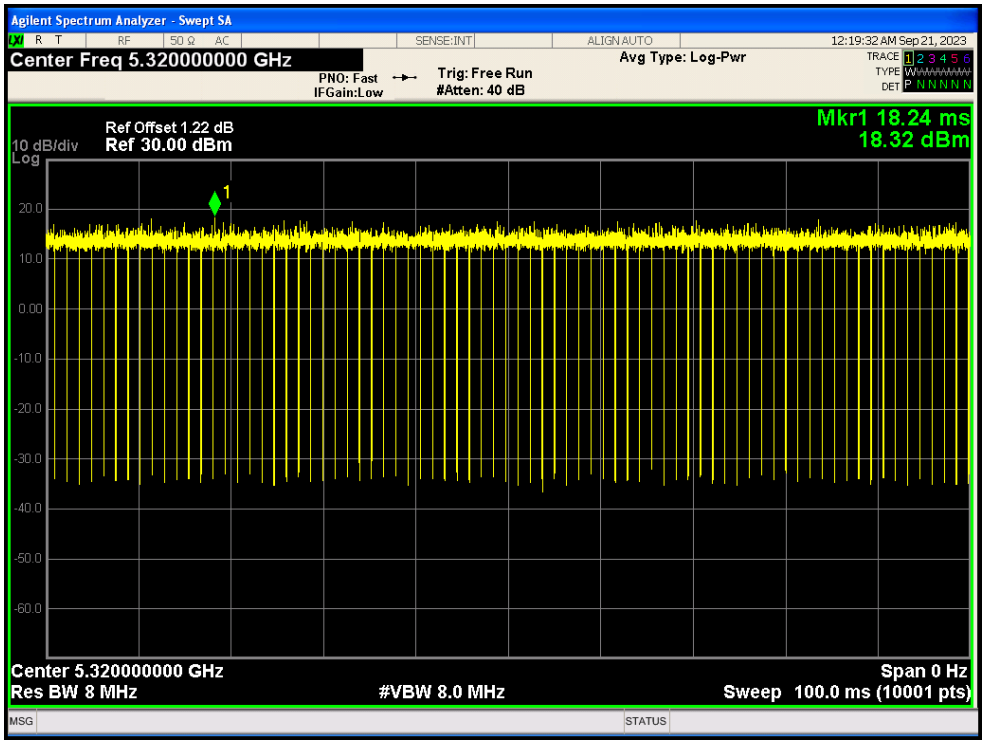
Duty Cycle NVNT n20 5260MHz Ant1



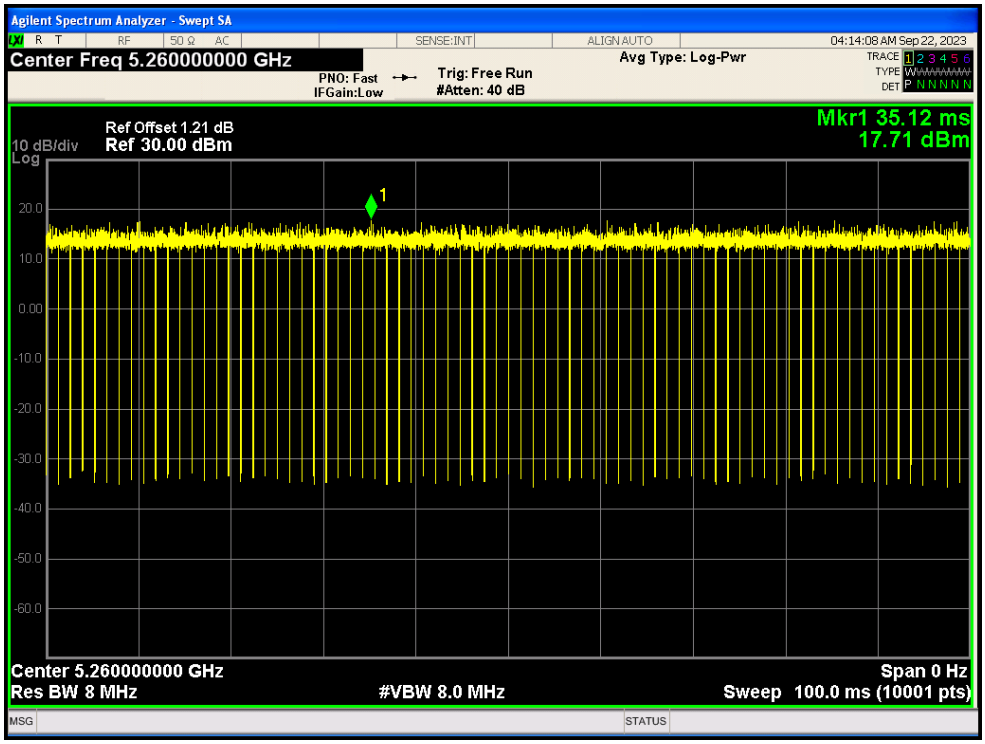
Duty Cycle NVNT n20 5280MHz Ant1



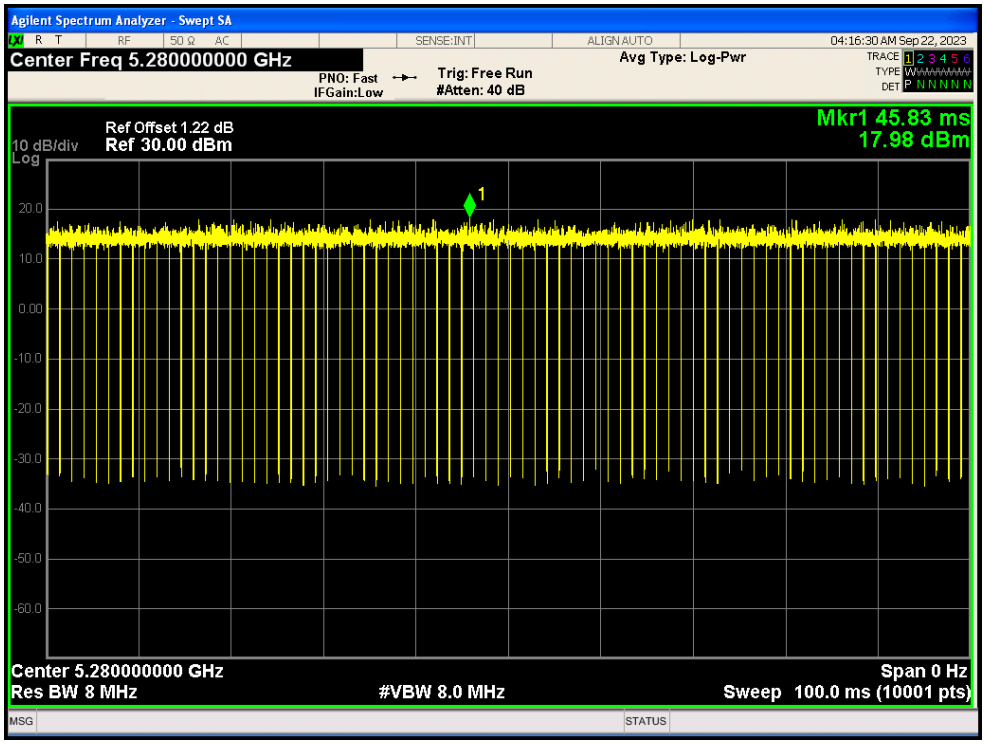
Duty Cycle NVNT n20 5320MHz Ant1



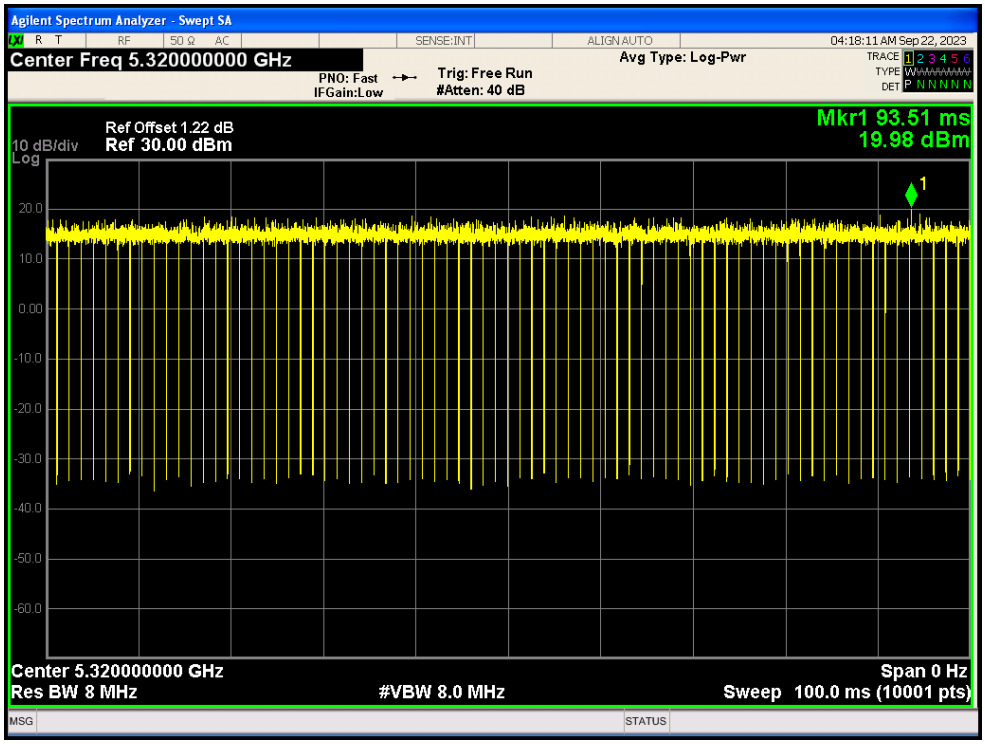
Duty Cycle NVNT n20 5260MHz Ant2



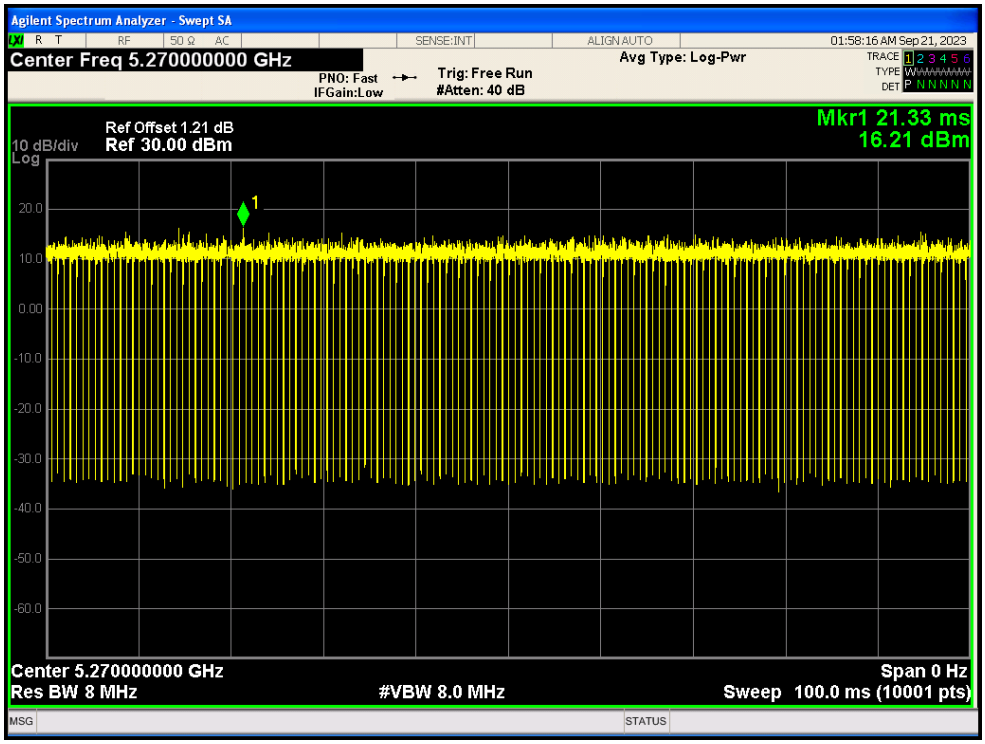
Duty Cycle NVNT n20 5280MHz Ant2



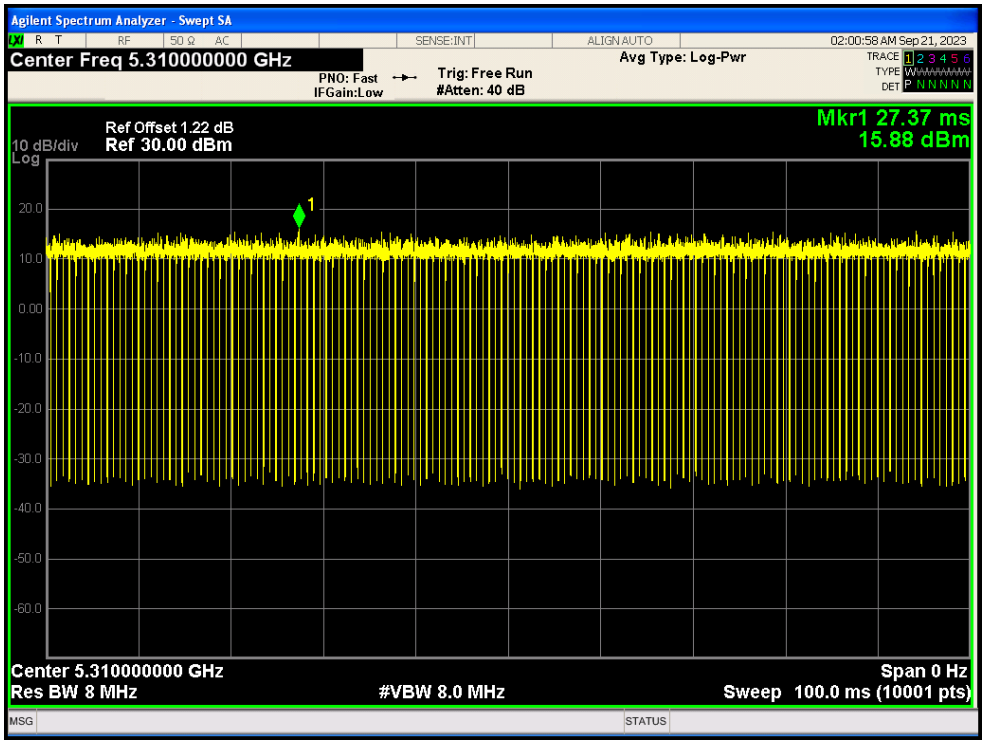
Duty Cycle NVNT n20 5320MHz Ant2



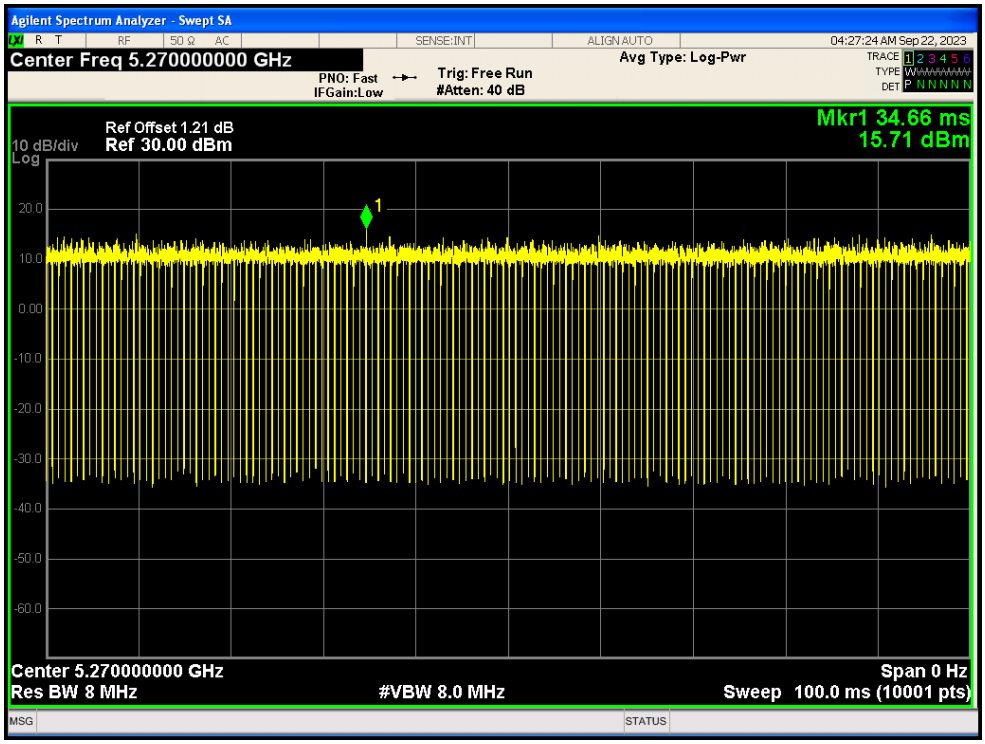
Duty Cycle NVNT n40 5270MHz Ant1



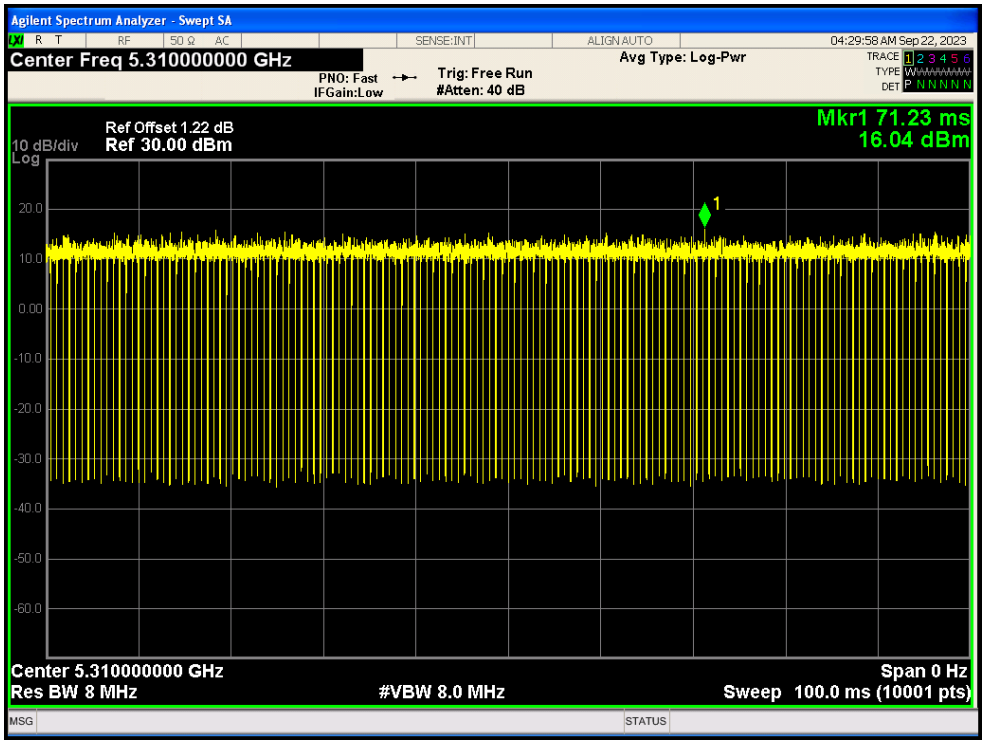
Duty Cycle NVNT n40 5310MHz Ant1



Duty Cycle NVNT n40 5270MHz Ant2



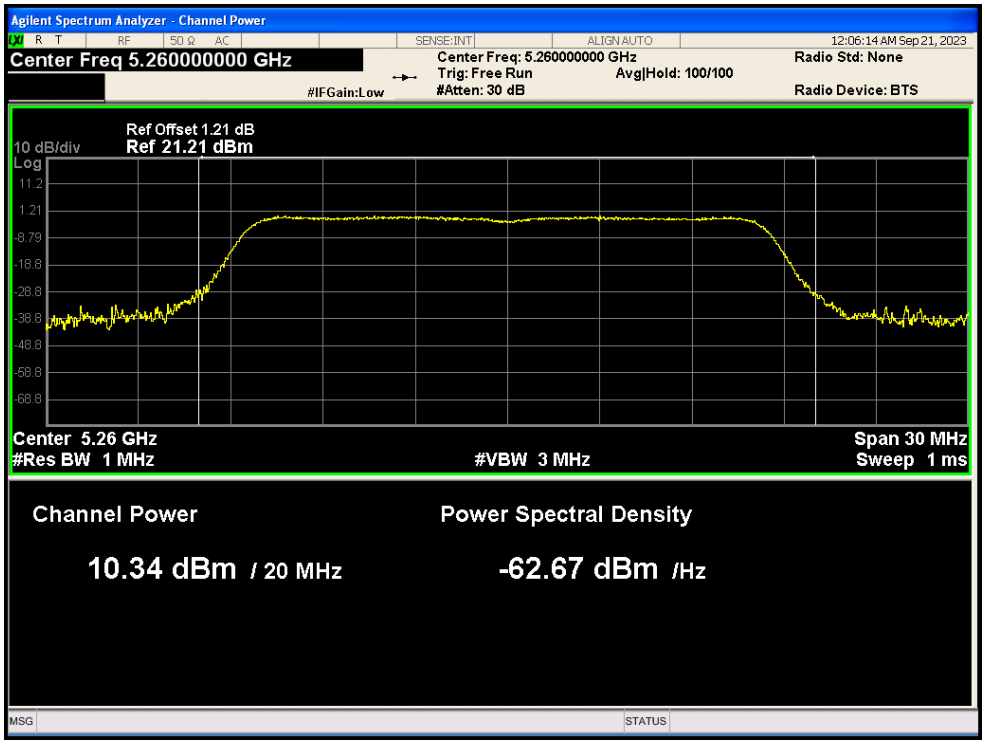
Duty Cycle NVNT n40 5310MHz Ant2



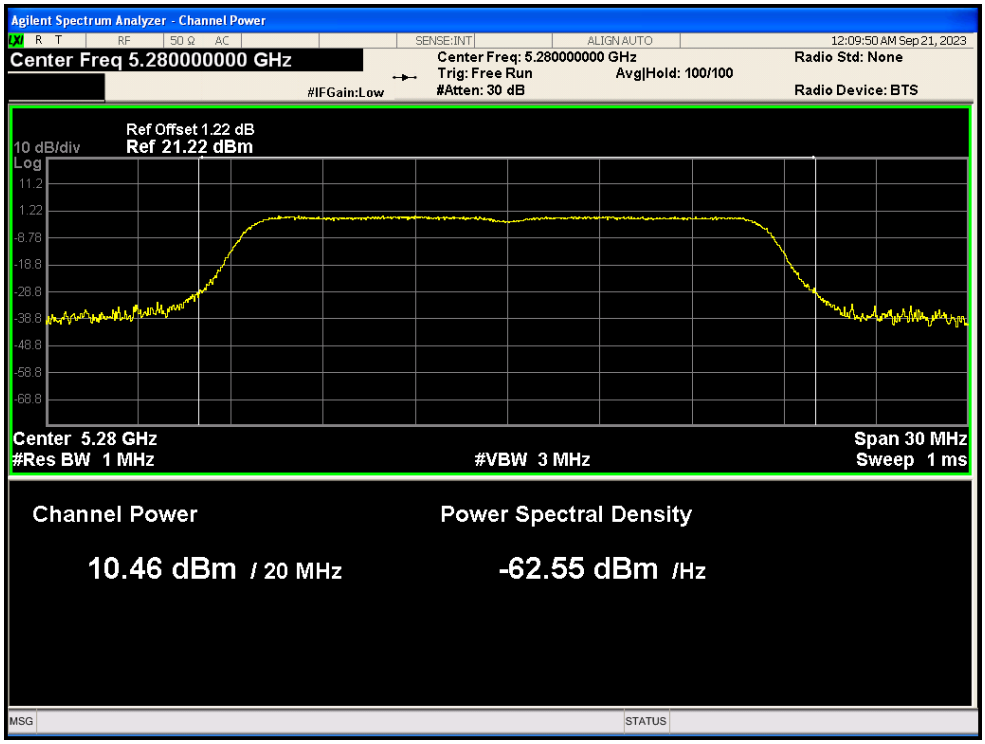
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	10.338	24	Pass
NVNT	a	5280	Ant1	10.456	24	Pass
NVNT	a	5320	Ant1	10.903	24	Pass
NVNT	a	5260	Ant2	10.083	24	Pass
NVNT	a	5280	Ant2	10.367	24	Pass
NVNT	a	5320	Ant2	11.327	24	Pass
NVNT	ac20	5260	Ant1	10.969	24	Pass
NVNT	ac20	5280	Ant1	9.492	24	Pass
NVNT	ac20	5320	Ant1	9.979	24	Pass
NVNT	ac20	5260	Ant2	9.804	24	Pass
NVNT	ac20	5280	Ant2	9.779	24	Pass
NVNT	ac20	5320	Ant2	9.755	24	Pass
NVNT	ac40	5270	Ant1	9.78	24	Pass
NVNT	ac40	5310	Ant1	10.096	24	Pass
NVNT	ac40	5270	Ant2	10.426	24	Pass
NVNT	ac40	5310	Ant2	11.295	24	Pass
NVNT	ac80	5290	Ant1	9.87	24	Pass
NVNT	ac80	5290	Ant2	10.818	24	Pass
NVNT	n20	5260	Ant1	9.715	24	Pass
NVNT	n20	5280	Ant1	9.61	24	Pass
NVNT	n20	5320	Ant1	10.063	24	Pass
NVNT	n20	5260	Ant2	10.125	24	Pass
NVNT	n20	5280	Ant2	10.472	24	Pass
NVNT	n20	5320	Ant2	11.28	24	Pass
NVNT	n40	5270	Ant1	11.203	24	Pass
NVNT	n40	5310	Ant1	11.434	24	Pass
NVNT	n40	5270	Ant2	10.44	24	Pass
NVNT	n40	5310	Ant2	11.237	24	Pass

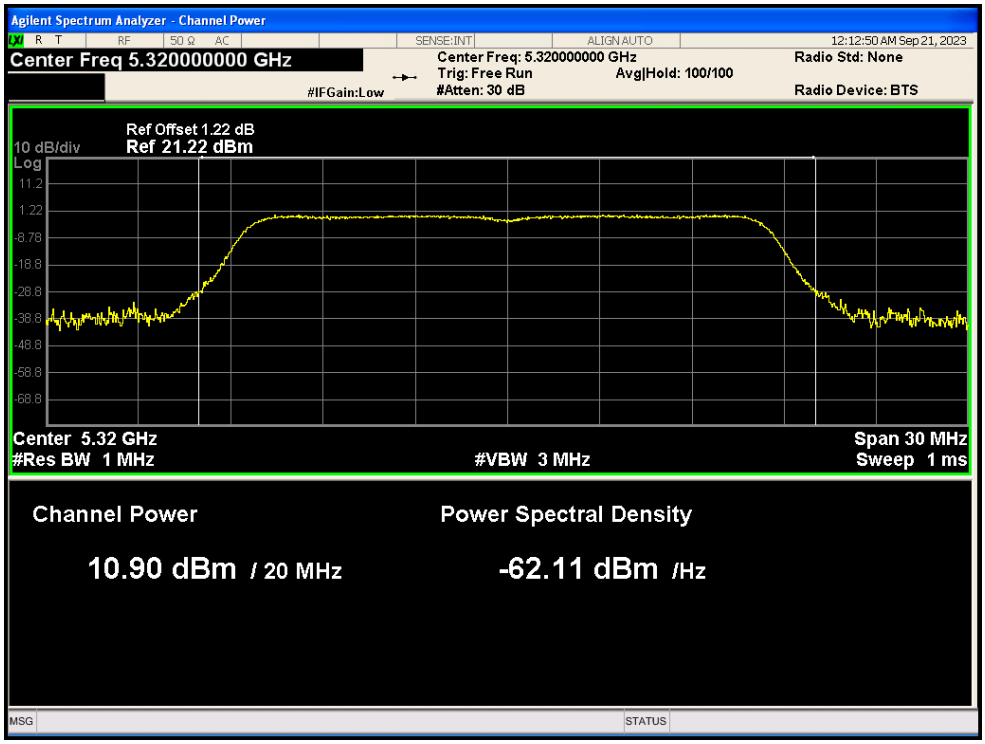
Power NVNT a 5260MHz Ant1



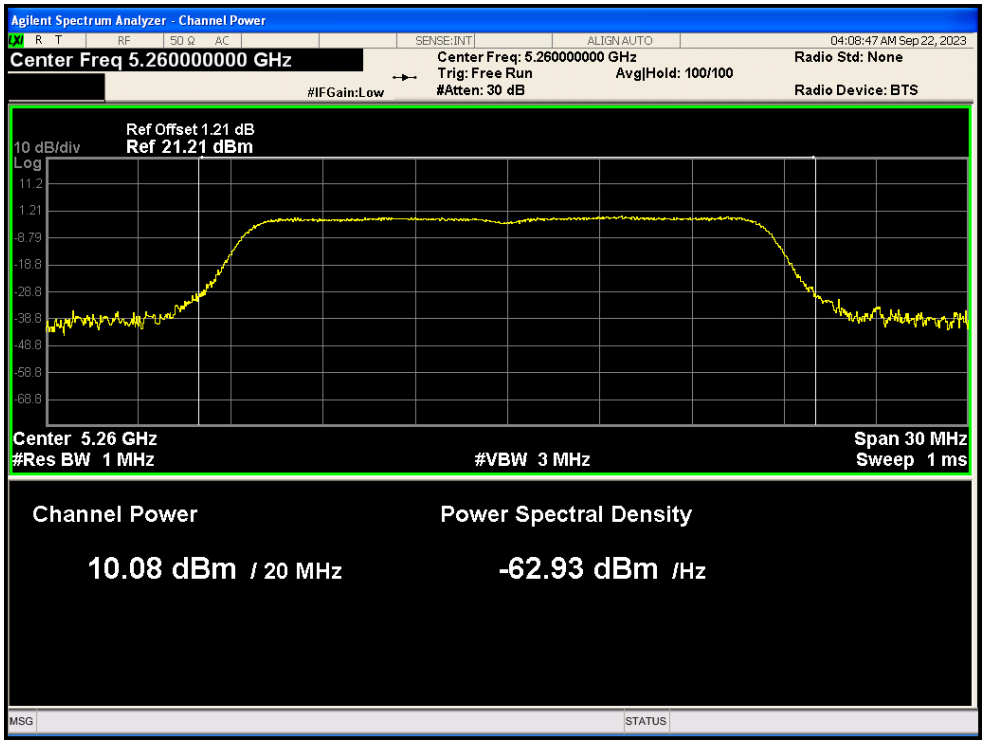
Power NVNT a 5280MHz Ant1



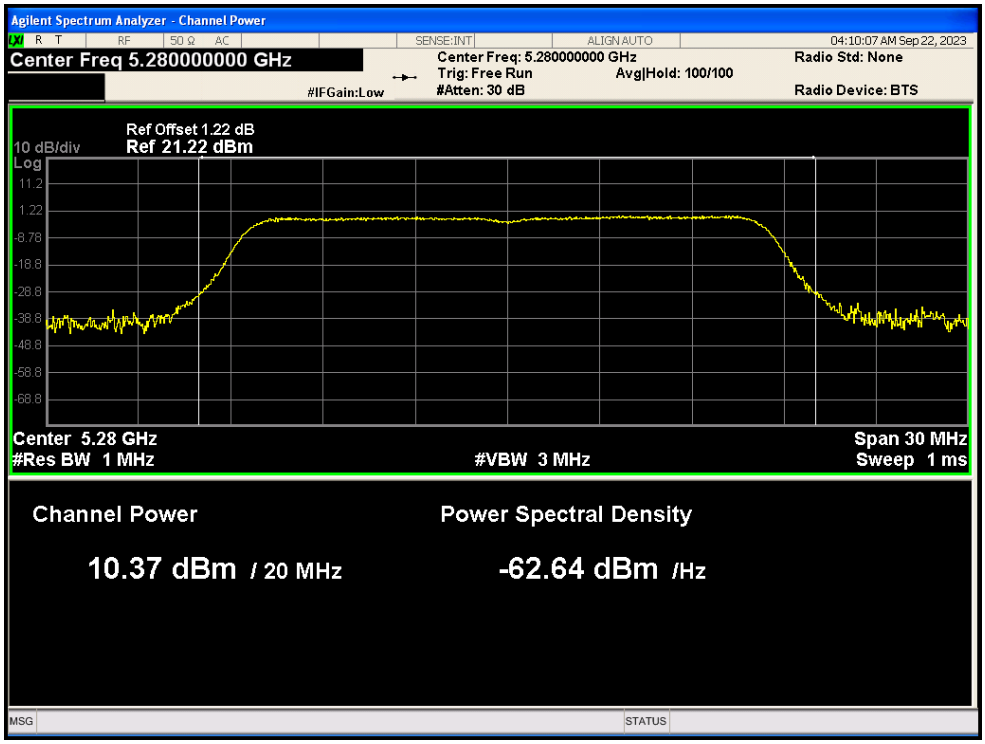
Power NVNT a 5320MHz Ant1



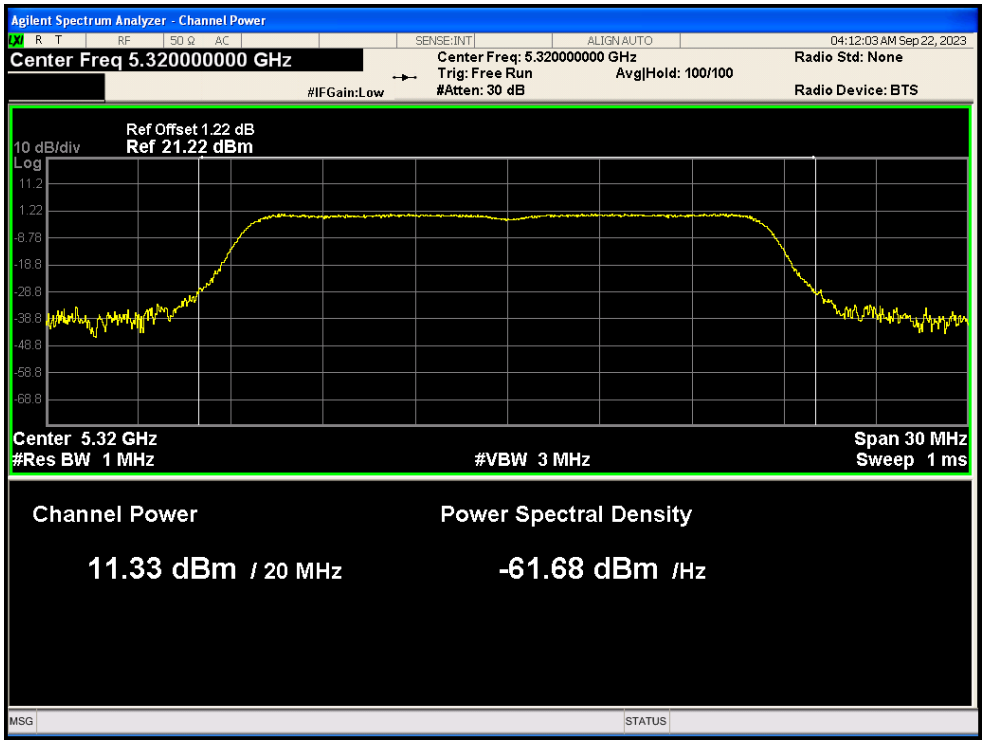
Power NVNT a 5260MHz Ant2



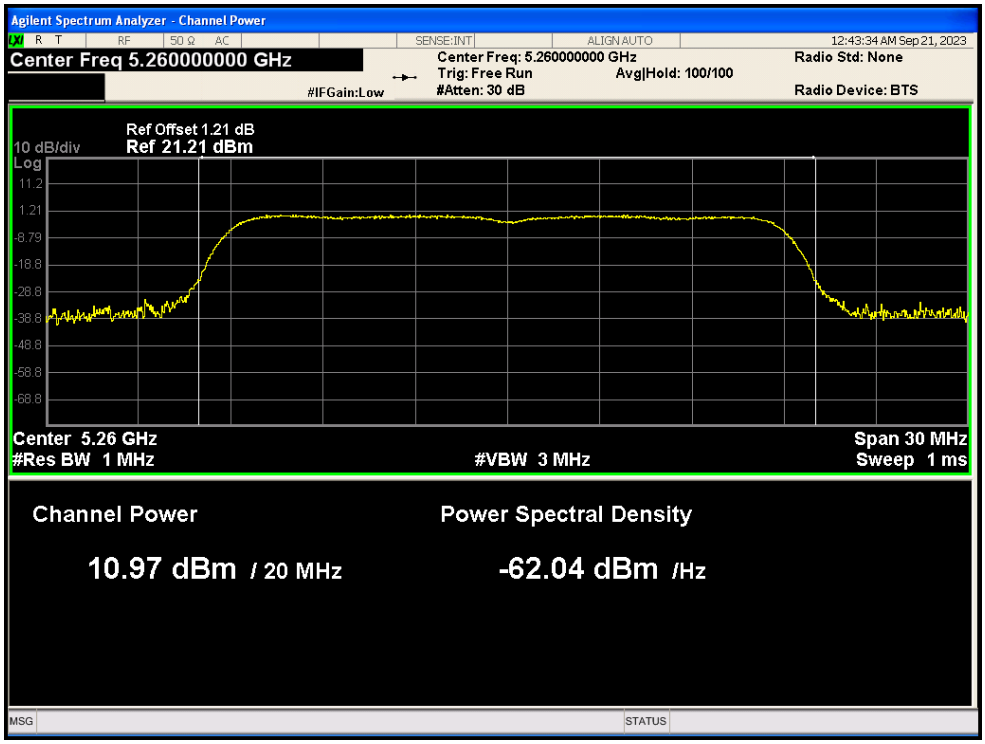
Power NVNT a 5280MHz Ant2



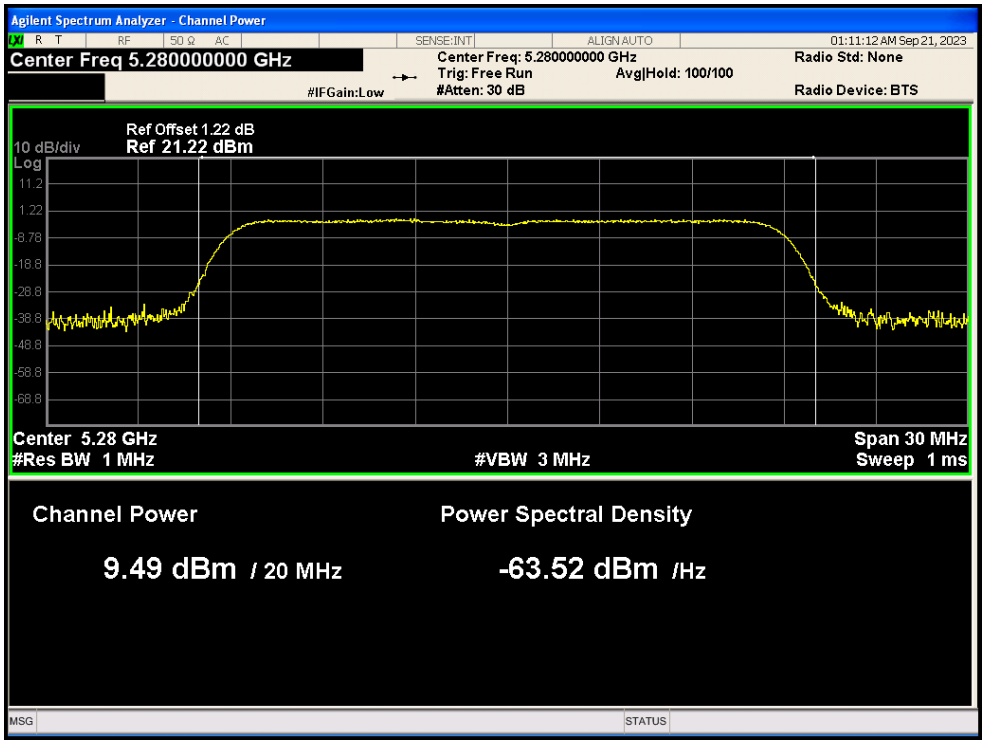
Power NVNT a 5320MHz Ant2



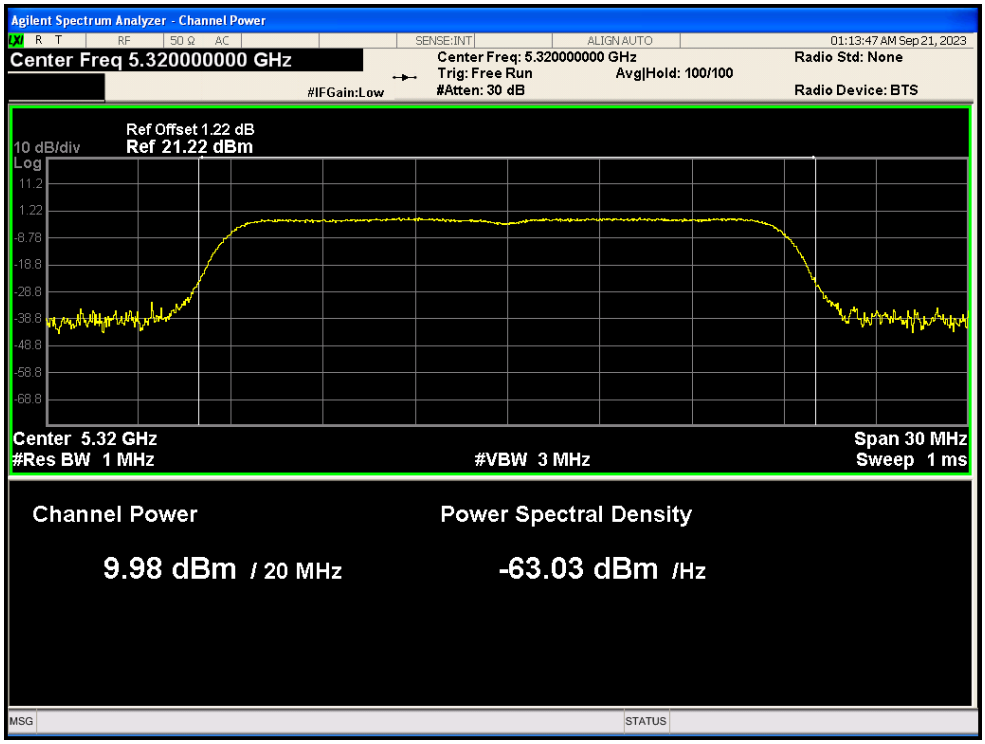
Power NVNT ac20 5260MHz Ant1



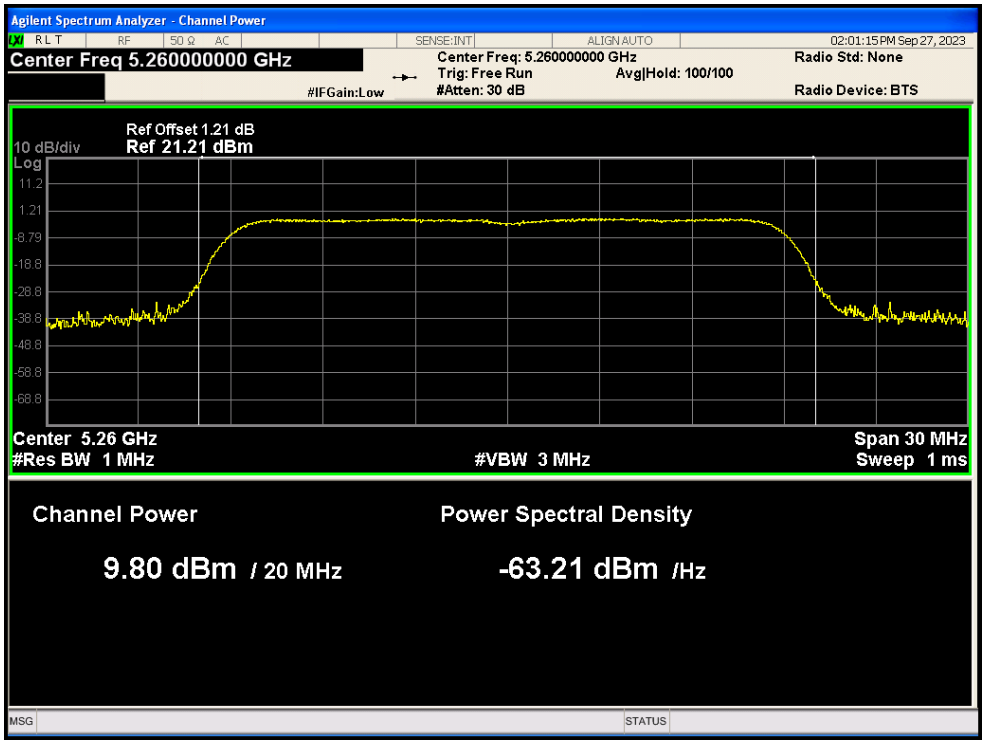
Power NVNT ac20 5280MHz Ant1



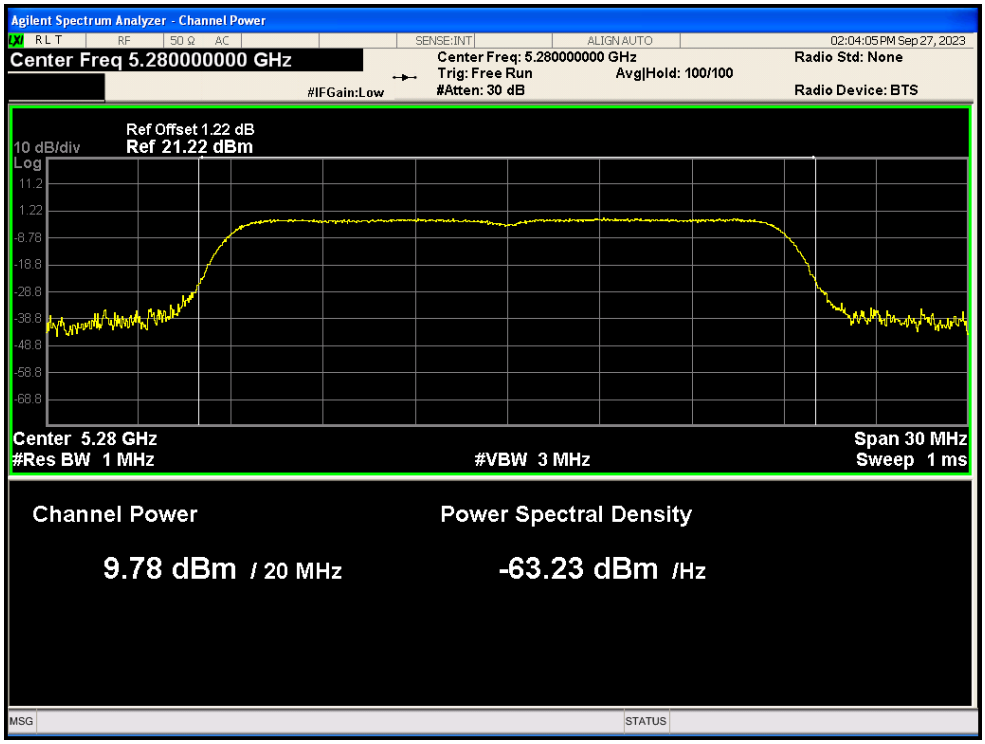
Power NVNT ac20 5320MHz Ant1



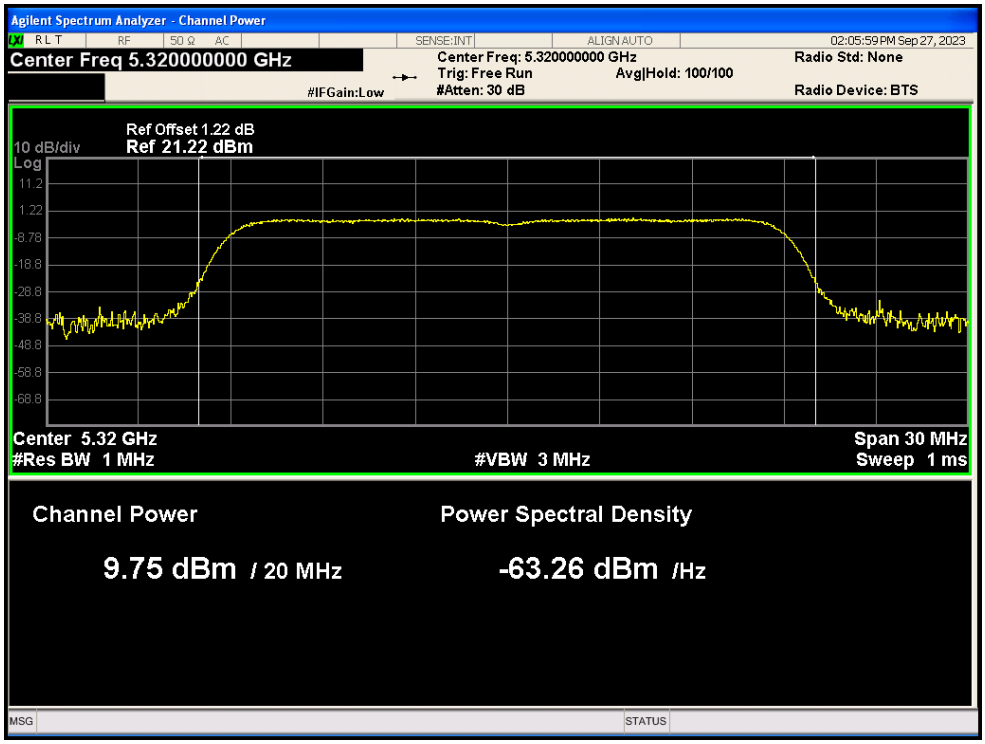
Power NVNT ac20 5260MHz Ant2



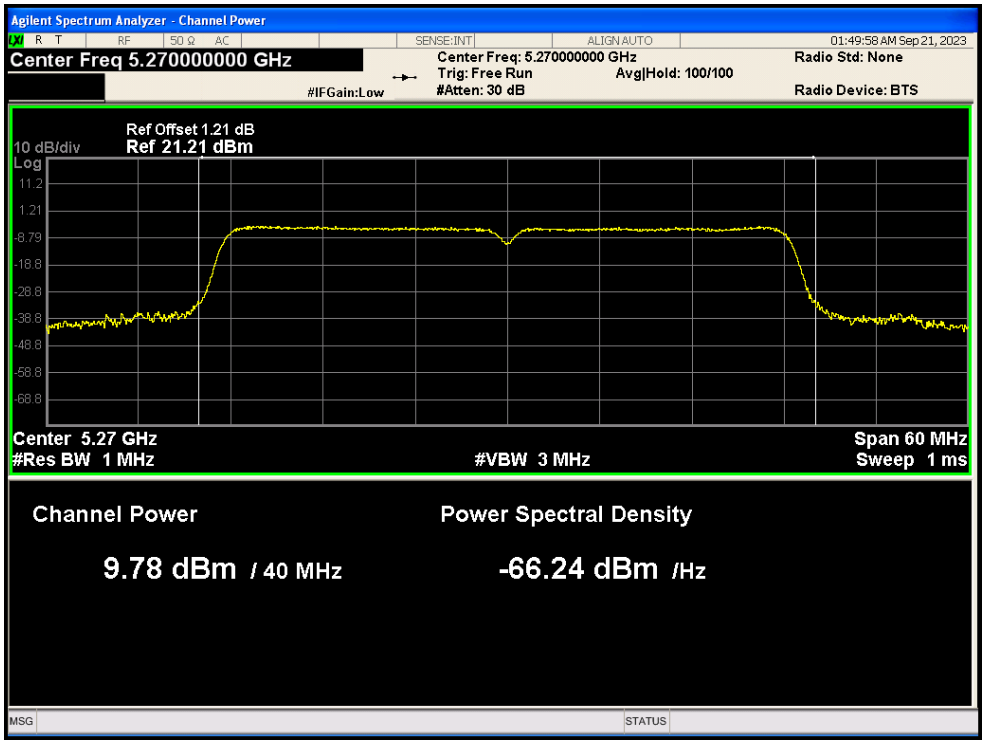
Power NVNT ac20 5280MHz Ant2



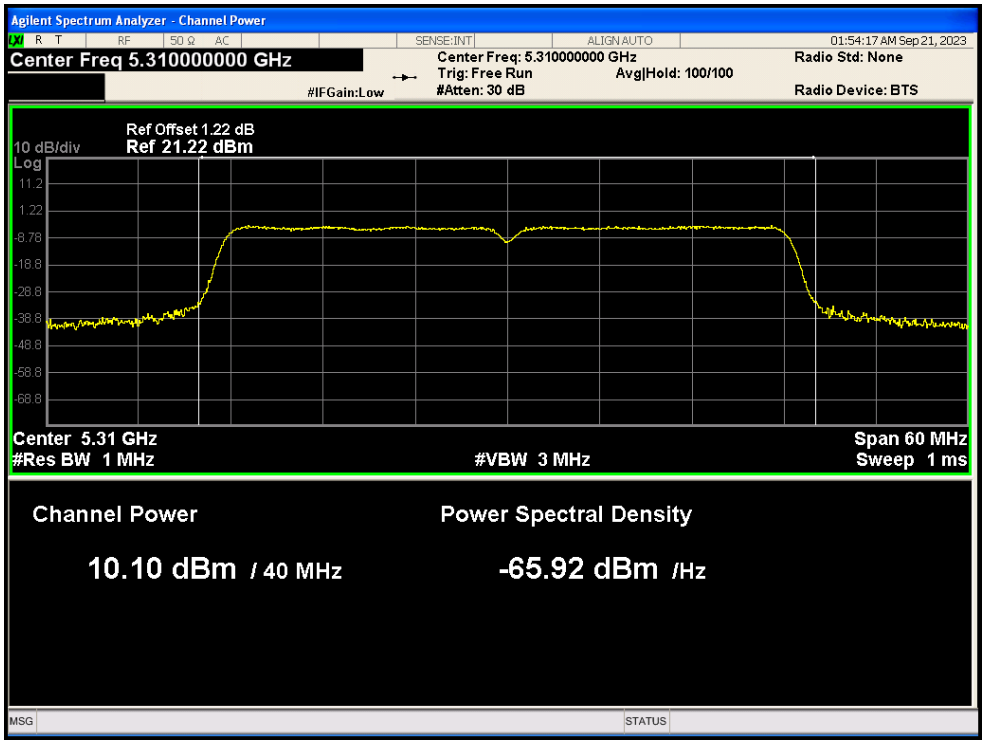
Power NVNT ac20 5320MHz Ant2



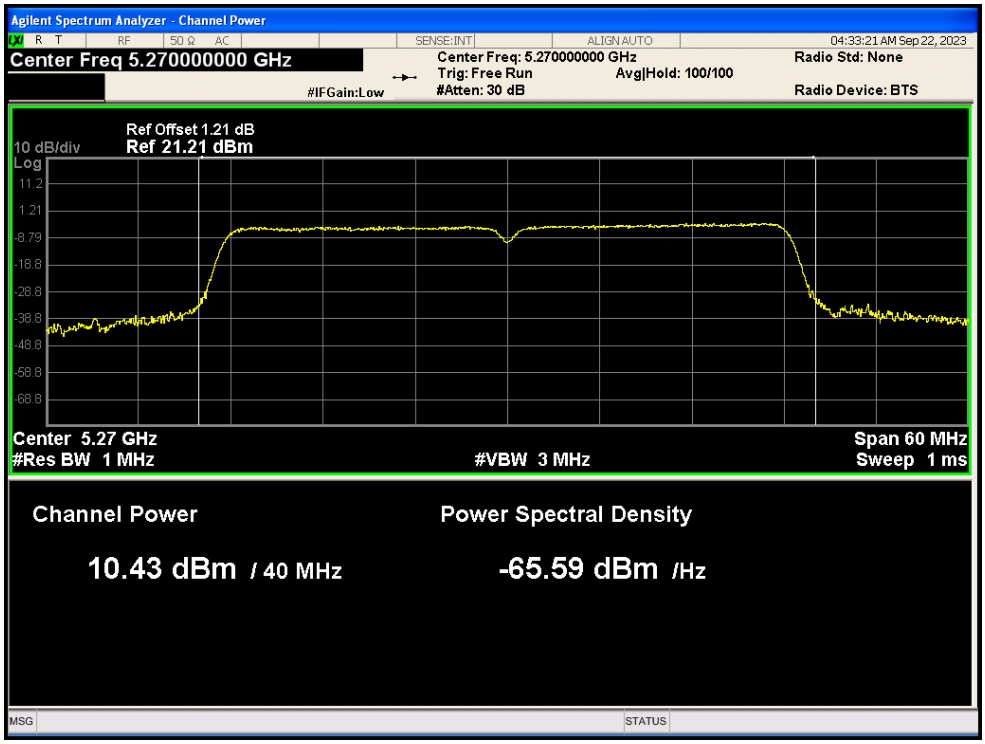
Power NVNT ac40 5270MHz Ant1



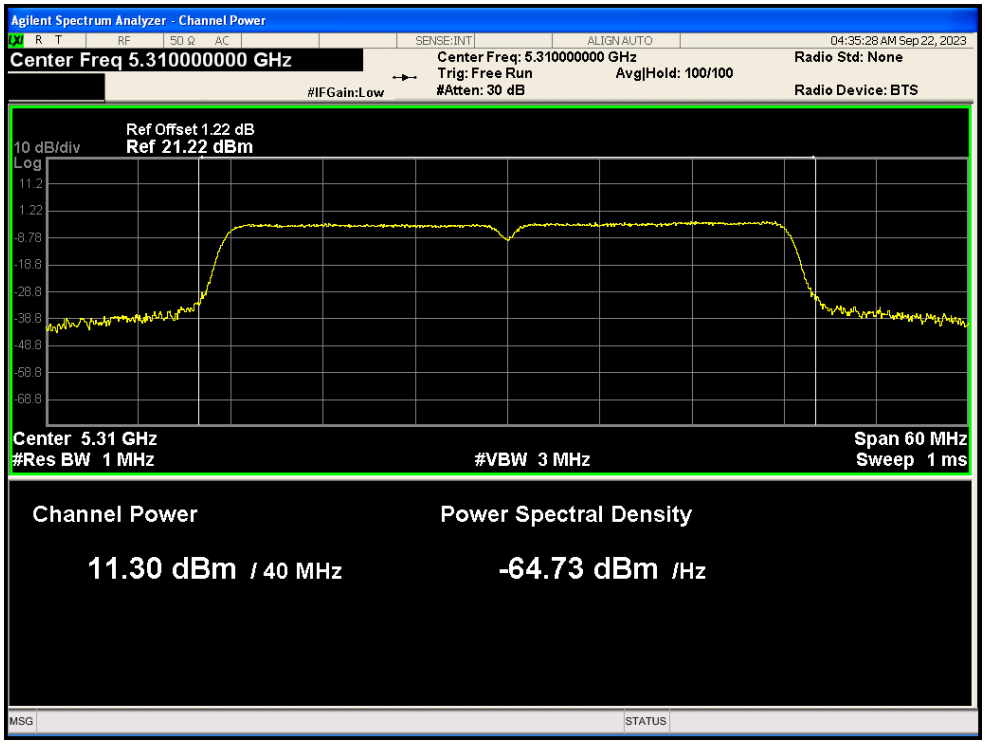
Power NVNT ac40 5310MHz Ant1



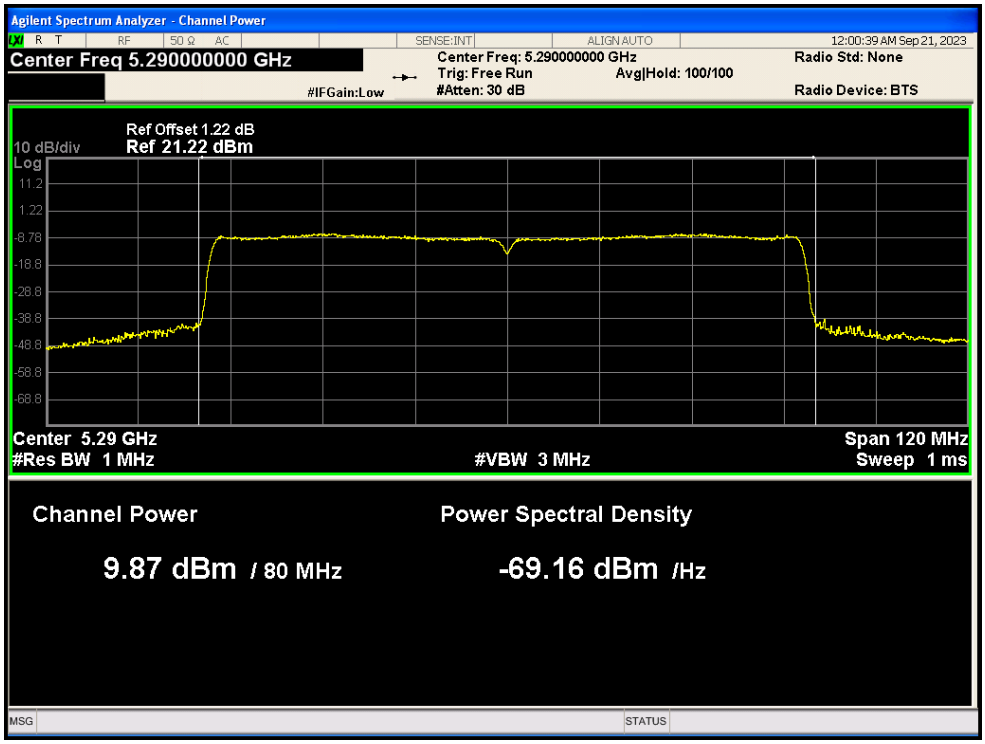
Power NVNT ac40 5270MHz Ant2



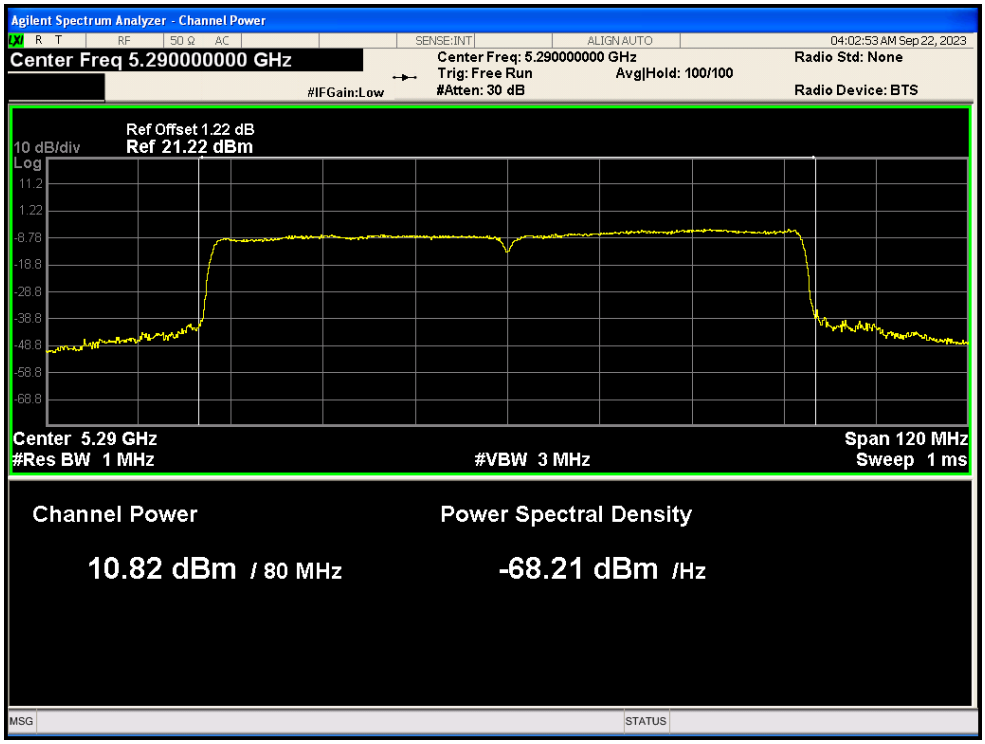
Power NVNT ac40 5310MHz Ant2



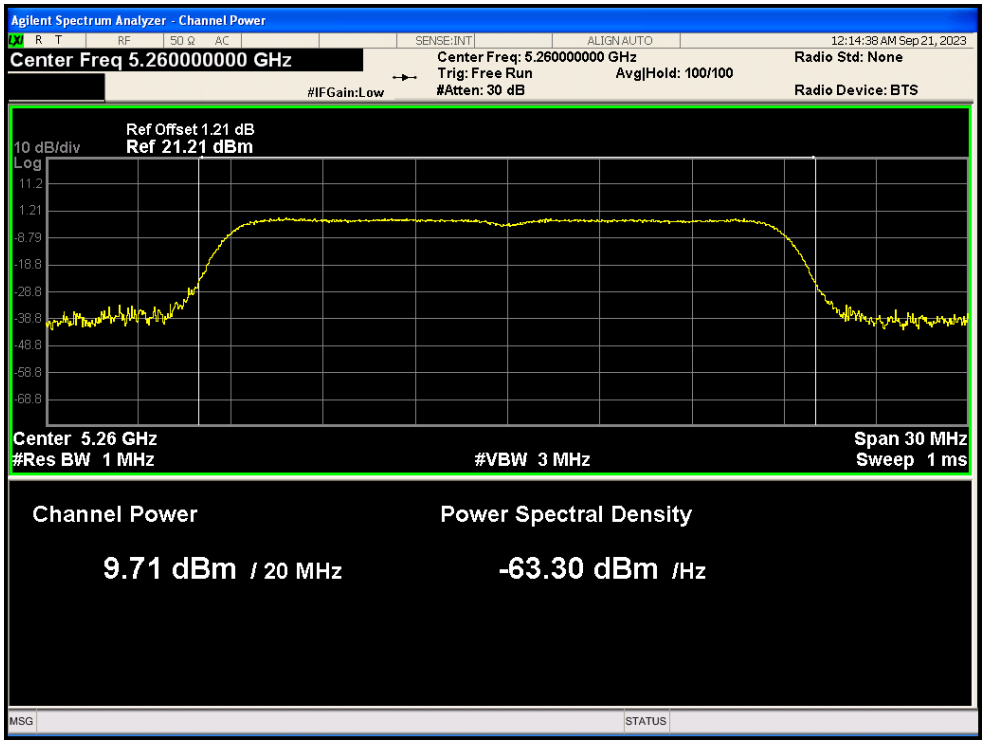
Power NVNT ac80 5290MHz Ant1



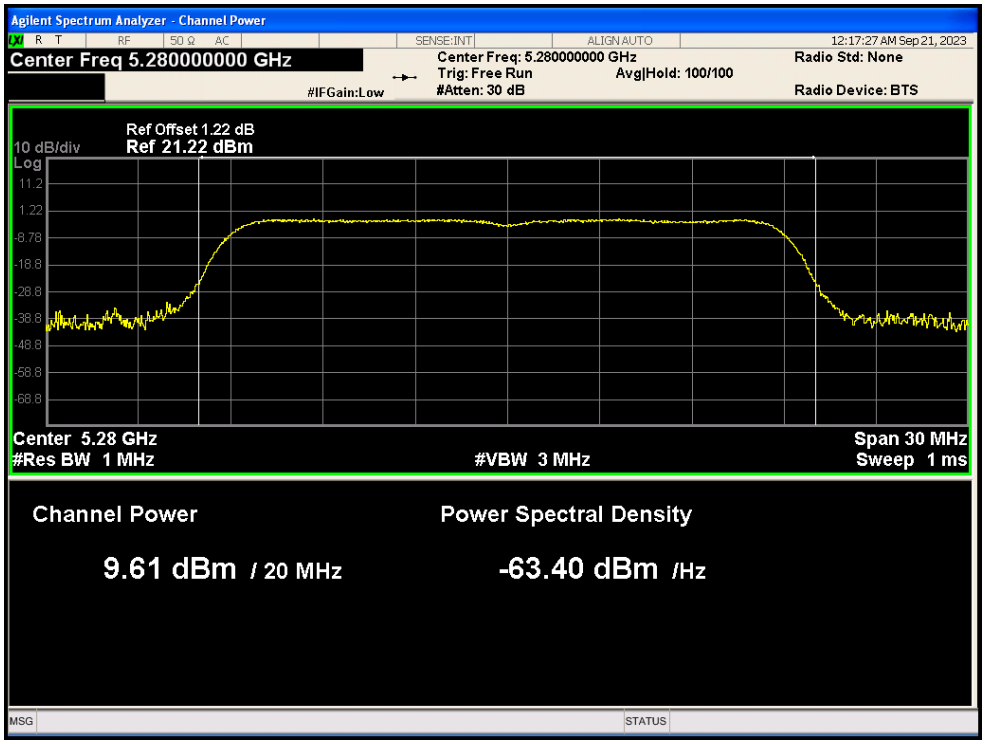
Power NVNT ac80 5290MHz Ant2



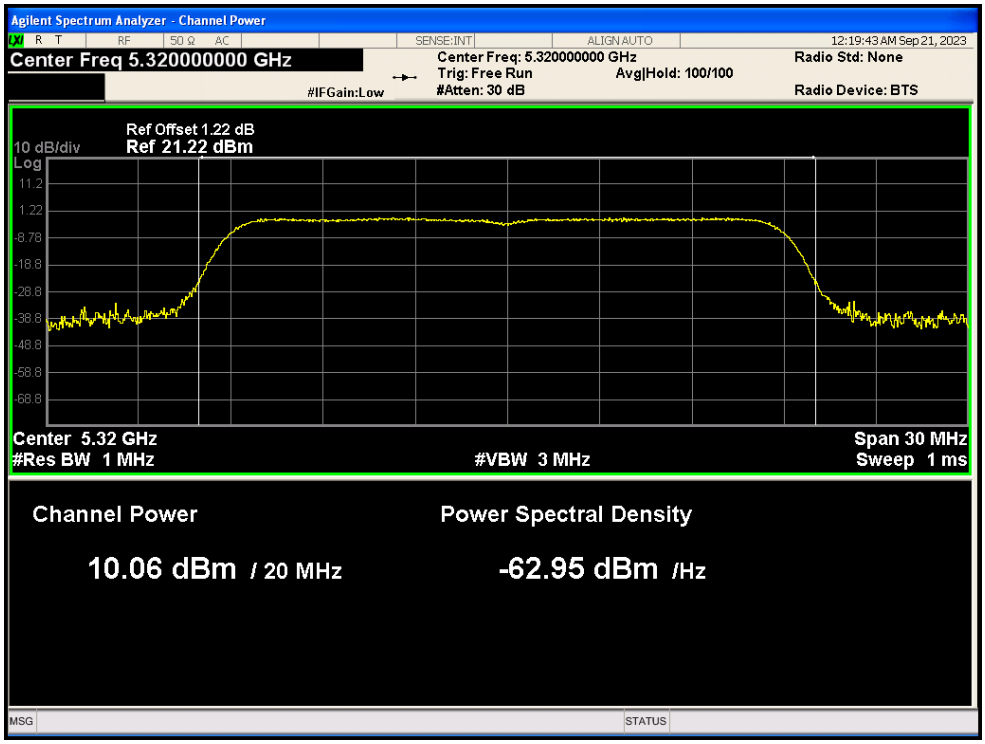
Power NVNT n20 5260MHz Ant1



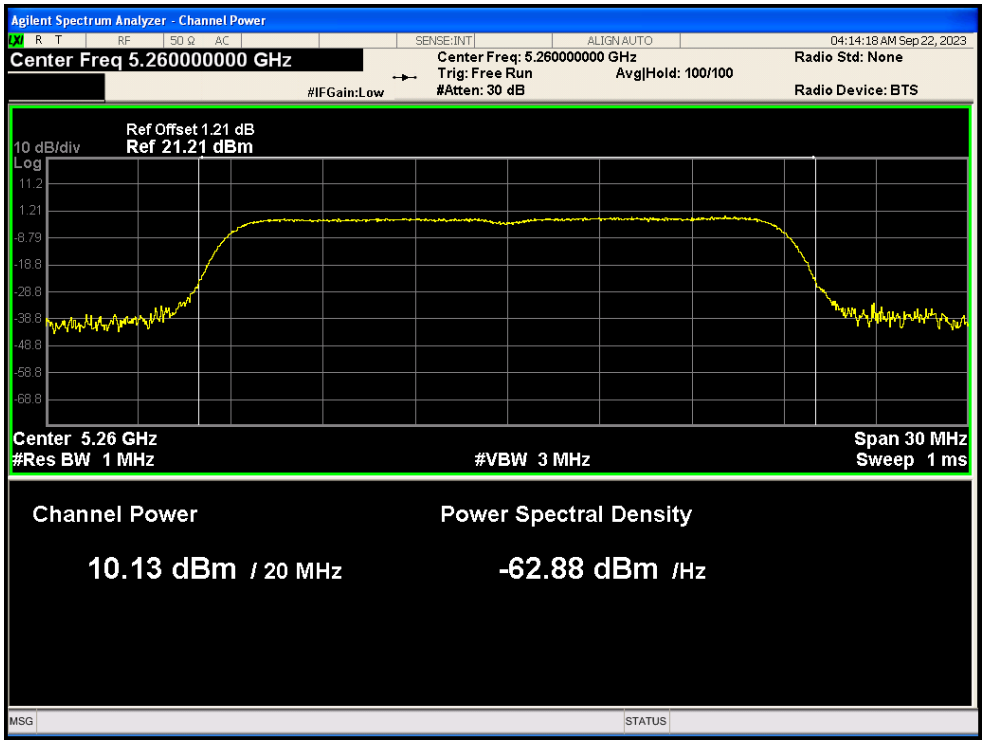
Power NVNT n20 5280MHz Ant1



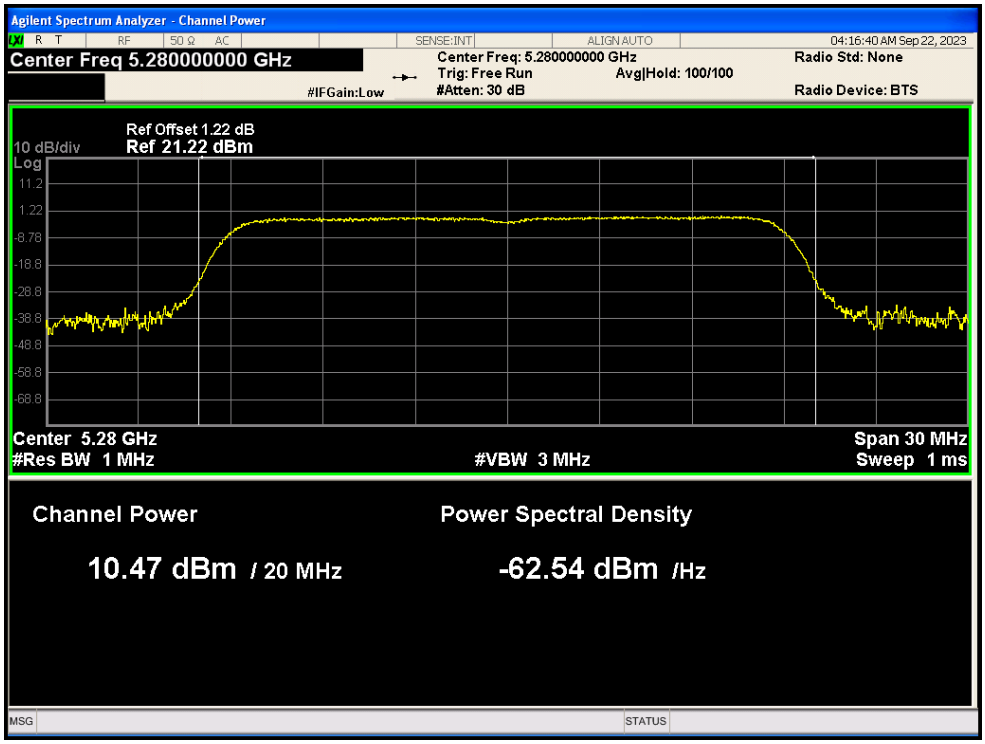
Power NVNT n20 5320MHz Ant1



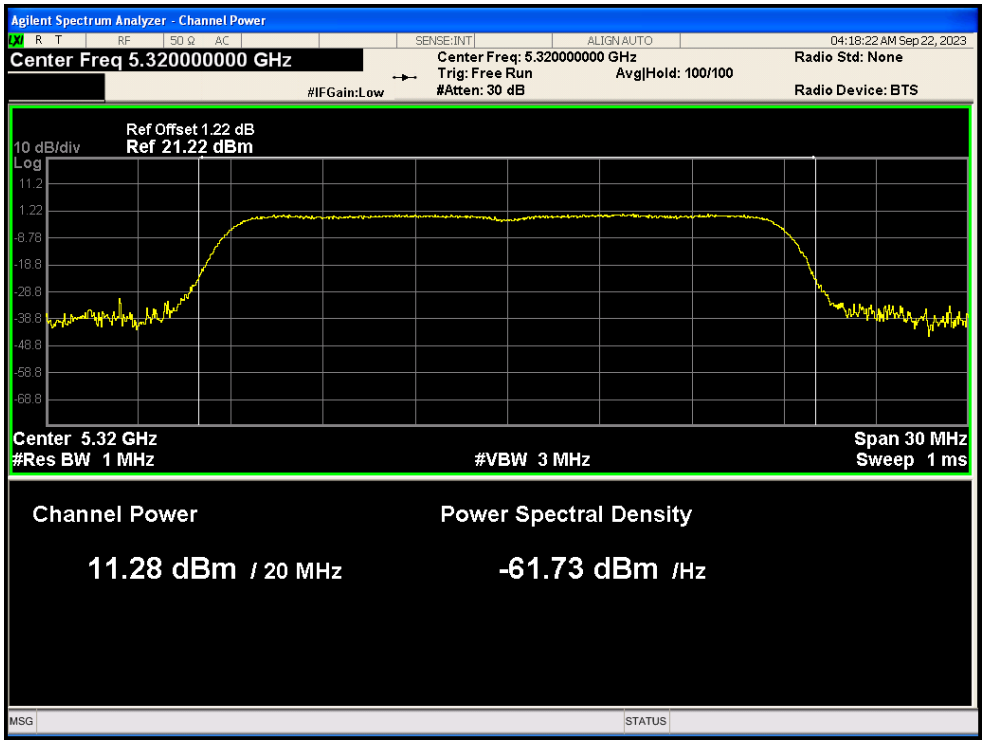
Power NVNT n20 5260MHz Ant2



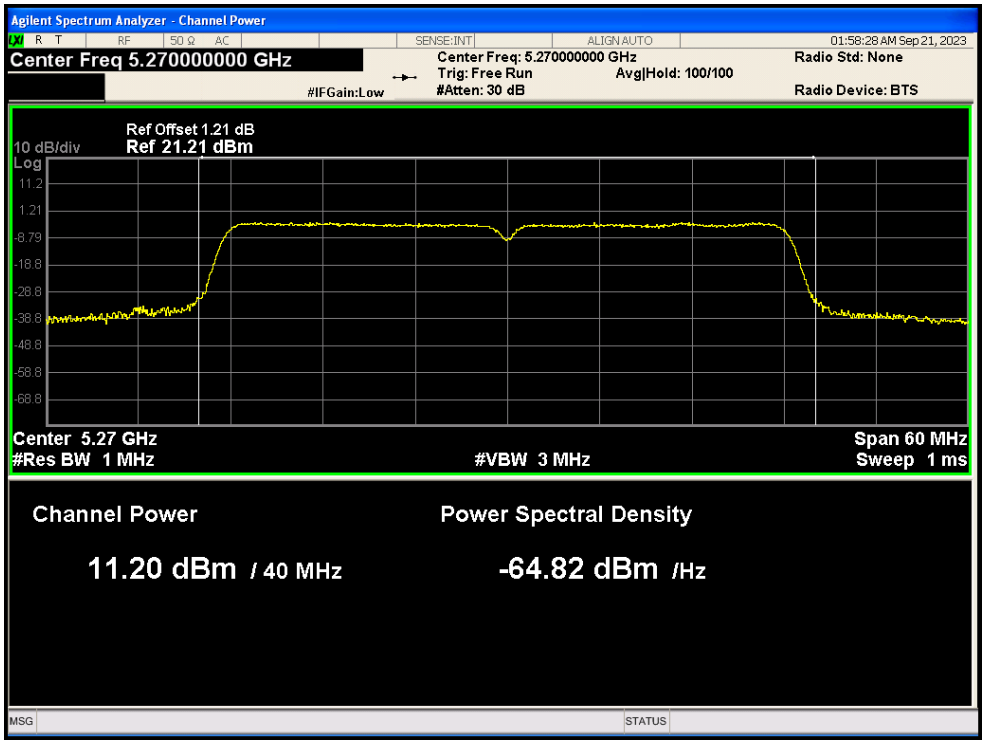
Power NVNT n20 5280MHz Ant2



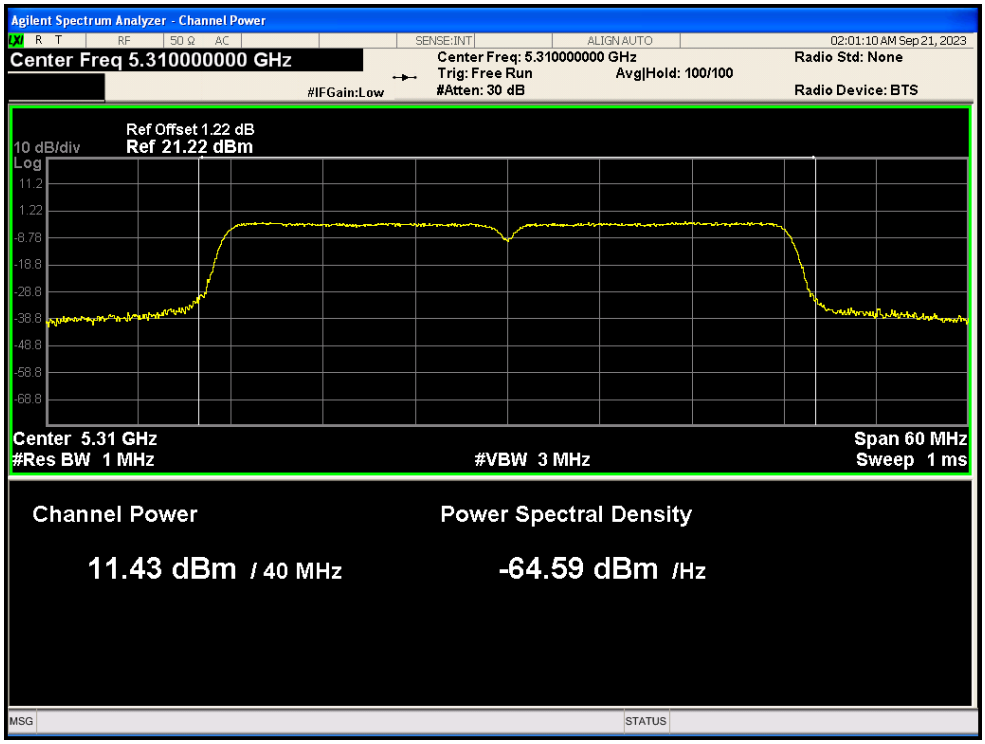
Power NVNT n20 5320MHz Ant2



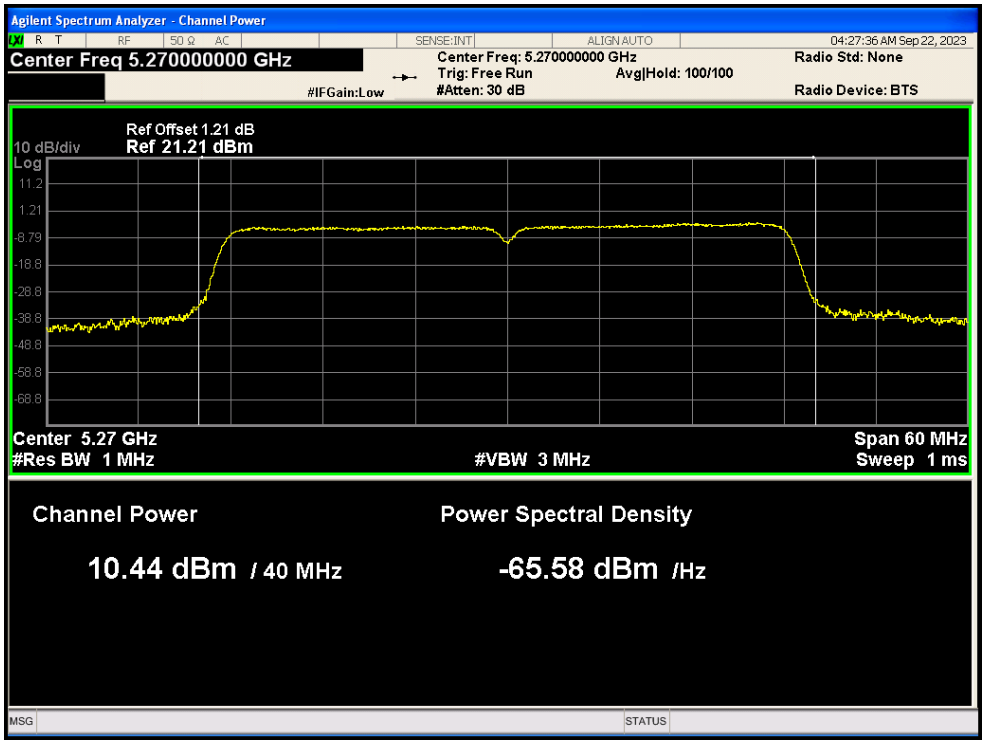
Power NVNT n40 5270MHz Ant1



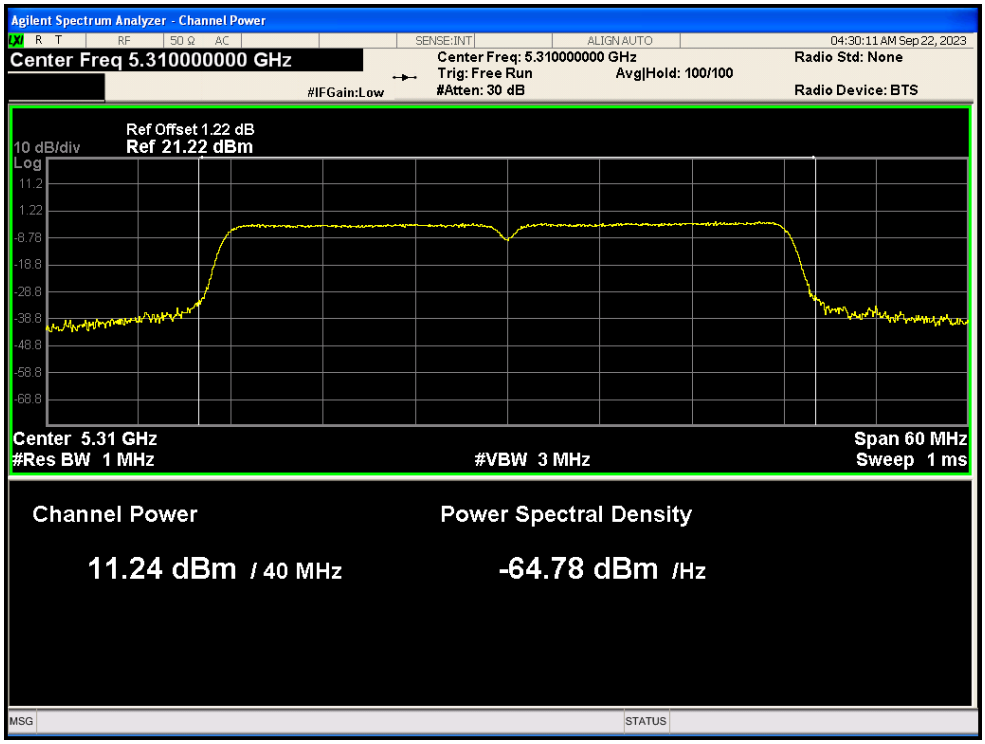
Power NVNT n40 5310MHz Ant1



Power NVNT n40 5270MHz Ant2



Power NVNT n40 5310MHz Ant2

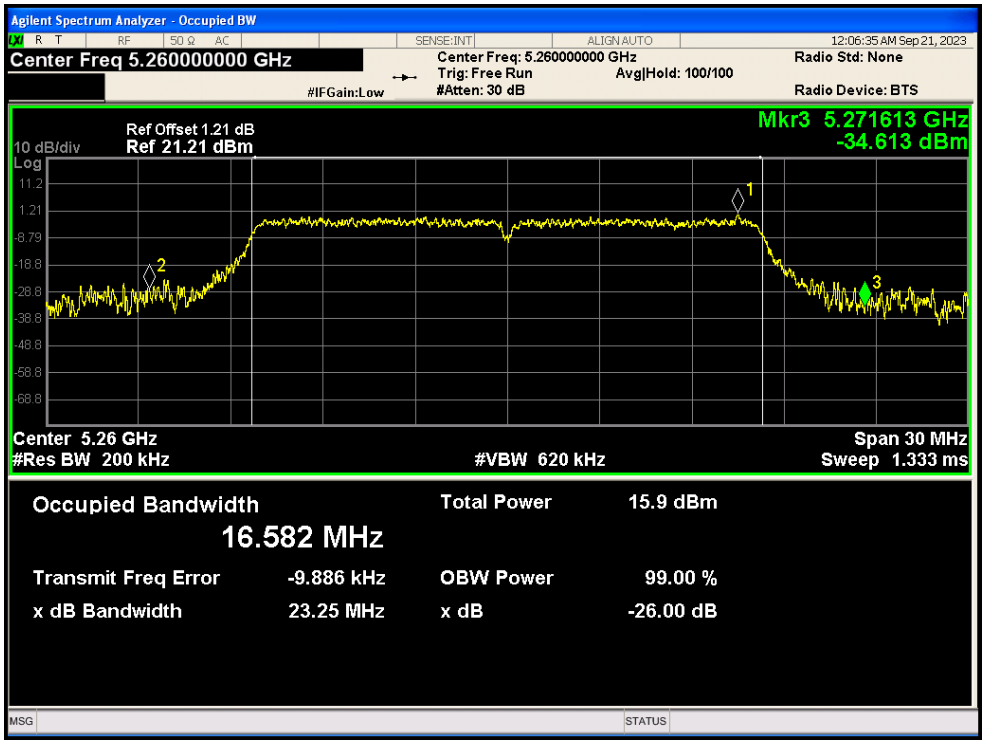


-26dB Bandwidth

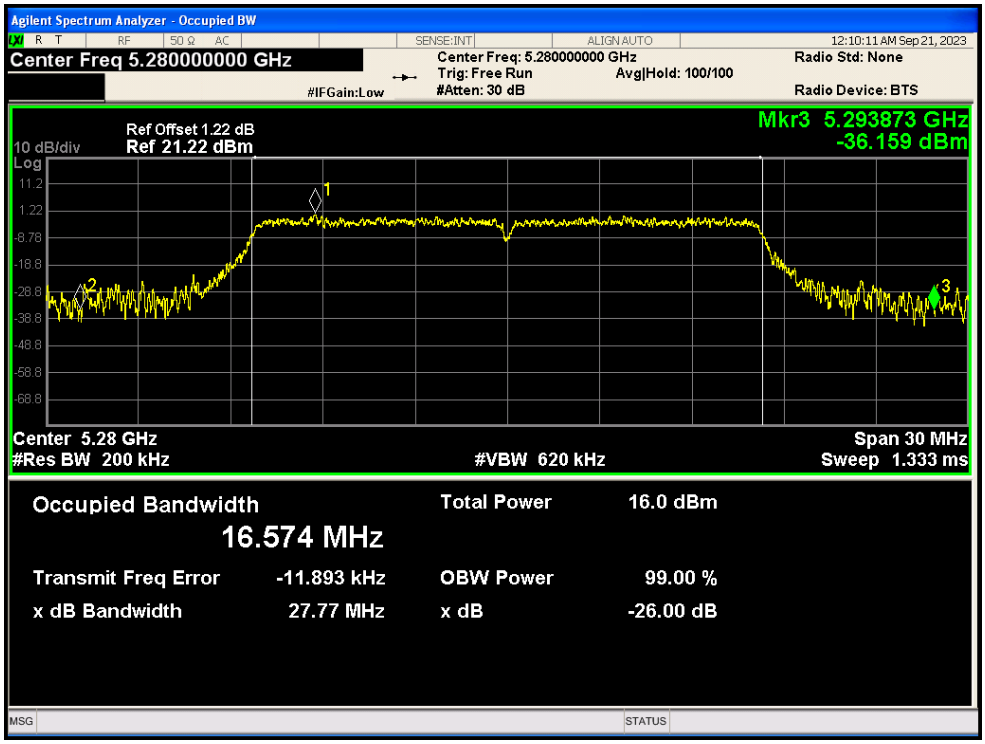
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	23.247	0.5	Pass
NVNT	a	5280	Ant1	27.769	0.5	Pass
NVNT	a	5320	Ant1	23.959	0.5	Pass

NVNT	a	5260	Ant2	26.635	0.5	Pass
NVNT	a	5280	Ant2	23.727	0.5	Pass
NVNT	a	5320	Ant2	24.468	0.5	Pass
NVNT	ac20	5260	Ant1	25.552	0.5	Pass
NVNT	ac20	5280	Ant1	28.511	0.5	Pass
NVNT	ac20	5320	Ant1	25.333	0.5	Pass
NVNT	ac20	5260	Ant2	24.887	0.5	Pass
NVNT	ac20	5280	Ant2	22.67	0.5	Pass
NVNT	ac20	5320	Ant2	26.733	0.5	Pass
NVNT	ac40	5270	Ant1	49.893	0.5	Pass
NVNT	ac40	5310	Ant1	52.811	0.5	Pass
NVNT	ac40	5270	Ant2	45.409	0.5	Pass
NVNT	ac40	5310	Ant2	49.994	0.5	Pass
NVNT	ac80	5290	Ant1	93.017	0.5	Pass
NVNT	ac80	5290	Ant2	85.159	0.5	Pass
NVNT	n20	5260	Ant1	25.095	0.5	Pass
NVNT	n20	5280	Ant1	24.459	0.5	Pass
NVNT	n20	5320	Ant1	23.697	0.5	Pass
NVNT	n20	5260	Ant2	20.719	0.5	Pass
NVNT	n20	5280	Ant2	23.364	0.5	Pass
NVNT	n20	5320	Ant2	27.158	0.5	Pass
NVNT	n40	5270	Ant1	46.579	0.5	Pass
NVNT	n40	5310	Ant1	48.616	0.5	Pass
NVNT	n40	5270	Ant2	46.14	0.5	Pass
NVNT	n40	5310	Ant2	44.159	0.5	Pass

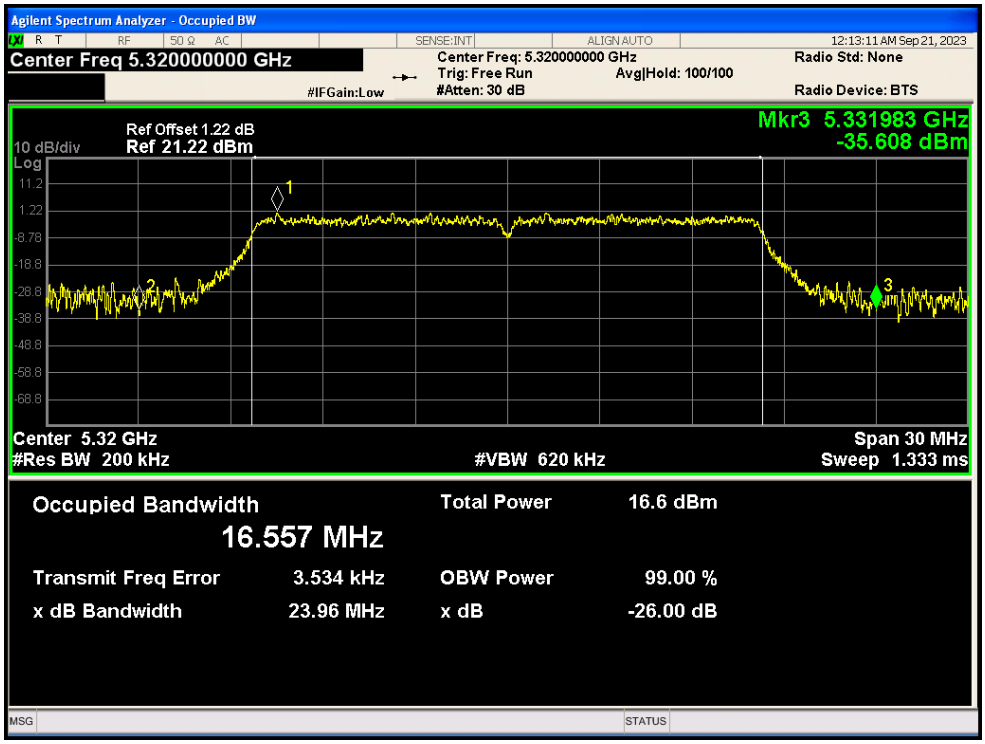
-26dB Bandwidth NVNT a 5260MHz Ant1



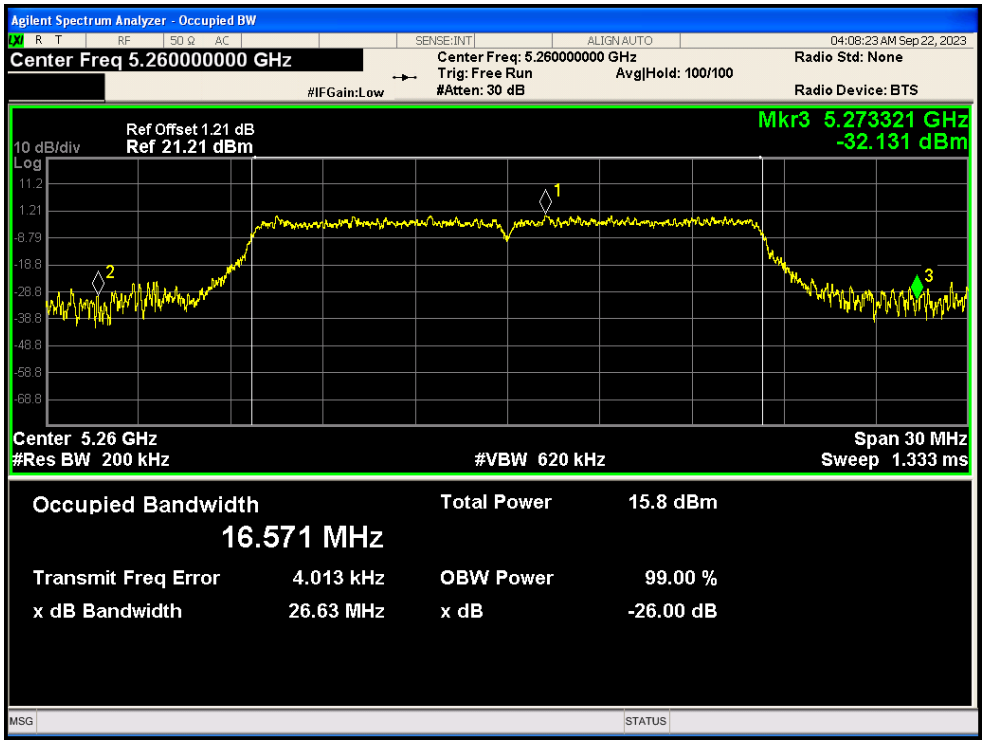
-26dB Bandwidth NVNT a 5280MHz Ant1



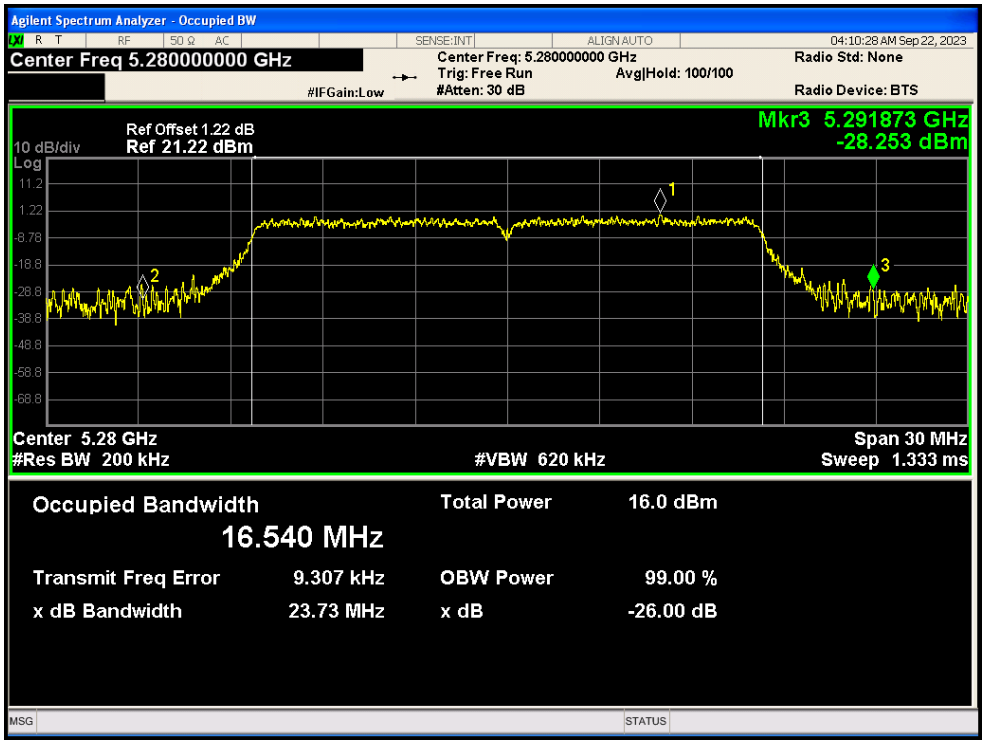
-26dB Bandwidth NVNT a 5320MHz Ant1



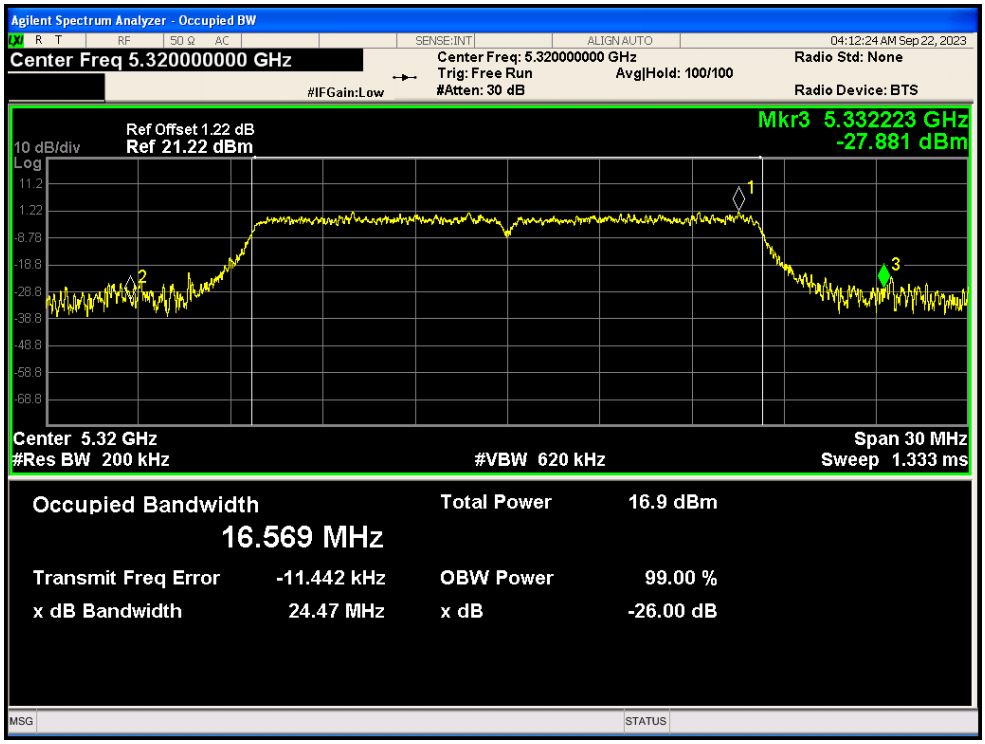
-26dB Bandwidth NVNT a 5260MHz Ant2



-26dB Bandwidth NVNT a 5280MHz Ant2



-26dB Bandwidth NVNT a 5320MHz Ant2



-26dB Bandwidth NVNT ac20 5260MHz Ant1