

22 ANTENNA REQUIREMENT

Test Standard	47 CFR Part 15, Subpart E 15.407
Test Method	N/A

22.1 CONCLUSION

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The best case gain of the antenna is 3.11dBi.

23 APPENDIX

23.1 MAXIMUM CONDUCTED OUTPUT POWER

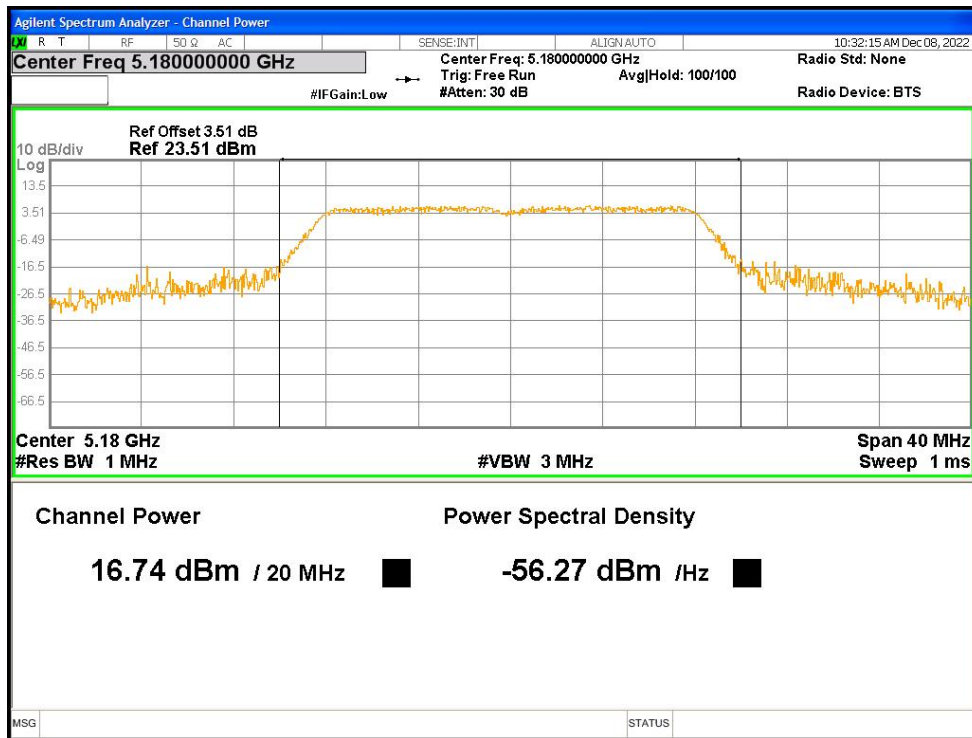
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	16.737	24	Pass
NVNT	a	5200	Ant1	16.842	24	Pass
NVNT	a	5240	Ant1	16.959	24	Pass
NVNT	a	5260	Ant1	16.436	24	Pass
NVNT	a	5280	Ant1	16.099	24	Pass
NVNT	a	5320	Ant1	15.753	24	Pass
NVNT	a	5500	Ant1	16.303	24	Pass
NVNT	a	5600	Ant1	16.373	24	Pass
NVNT	a	5700	Ant1	16.933	24	Pass
NVNT	a	5745	Ant1	16.698	30	Pass
NVNT	a	5785	Ant1	16.566	30	Pass
NVNT	a	5825	Ant1	16.489	30	Pass
NVNT	a	5180	Ant2	17.485	24	Pass
NVNT	a	5200	Ant2	16.702	24	Pass
NVNT	a	5240	Ant2	17.109	24	Pass
NVNT	a	5260	Ant2	16.545	24	Pass
NVNT	a	5280	Ant2	16.424	24	Pass
NVNT	a	5320	Ant2	16.29	24	Pass
NVNT	a	5500	Ant2	17.096	24	Pass
NVNT	a	5600	Ant2	17.294	24	Pass
NVNT	a	5700	Ant2	16.735	24	Pass
NVNT	a	5745	Ant2	16.985	30	Pass
NVNT	a	5785	Ant2	16.999	30	Pass
NVNT	a	5825	Ant2	16.447	30	Pass
NVNT	ac20	5180	Ant1	11.636	23.88	Pass
NVNT	ac20	5180	Ant2	13.887	23.88	Pass
NVNT	ac20	5180	Sum	15.916	23.88	Pass
NVNT	ac20	5200	Ant1	12.024	23.88	Pass
NVNT	ac20	5200	Ant2	14.207	23.88	Pass
NVNT	ac20	5200	Sum	16.262	23.88	Pass
NVNT	ac20	5240	Ant1	11.476	23.88	Pass
NVNT	ac20	5240	Ant2	14.144	23.88	Pass
NVNT	ac20	5240	Sum	16.022	23.88	Pass
NVNT	ac20	5260	Ant1	11.156	23.88	Pass
NVNT	ac20	5260	Ant2	14.328	23.88	Pass
NVNT	ac20	5260	Sum	16.036	23.88	Pass
NVNT	ac20	5280	Ant1	11.302	23.88	Pass
NVNT	ac20	5280	Ant2	14.987	23.88	Pass
NVNT	ac20	5280	Sum	16.534	23.88	Pass
NVNT	ac20	5320	Ant1	11.457	23.88	Pass
NVNT	ac20	5320	Ant2	14.375	23.88	Pass

NVNT	ac20	5320	Sum	16.167	23.88	Pass
NVNT	ac20	5500	Ant1	11.237	23.88	Pass
NVNT	ac20	5500	Ant2	14.649	23.88	Pass
NVNT	ac20	5500	Sum	16.28	23.88	Pass
NVNT	ac20	5600	Ant1	12.252	23.88	Pass
NVNT	ac20	5600	Ant2	14.133	23.88	Pass
NVNT	ac20	5600	Sum	16.304	23.88	Pass
NVNT	ac20	5700	Ant1	13.282	23.88	Pass
NVNT	ac20	5700	Ant2	13.658	23.88	Pass
NVNT	ac20	5700	Sum	16.484	23.88	Pass
NVNT	ac20	5745	Ant1	12.995	29.88	Pass
NVNT	ac20	5745	Ant2	13.884	29.88	Pass
NVNT	ac20	5745	Sum	16.473	29.88	Pass
NVNT	ac20	5785	Ant1	12.094	29.88	Pass
NVNT	ac20	5785	Ant2	13.98	29.88	Pass
NVNT	ac20	5785	Sum	16.149	29.88	Pass
NVNT	ac20	5825	Ant1	12.405	29.88	Pass
NVNT	ac20	5825	Ant2	13.99	29.88	Pass
NVNT	ac20	5825	Sum	16.28	29.88	Pass
NVNT	ac40	5190	Ant1	11.945	23.88	Pass
NVNT	ac40	5190	Ant2	14.471	23.88	Pass
NVNT	ac40	5190	Sum	16.399	23.88	Pass
NVNT	ac40	5230	Ant1	11.824	23.88	Pass
NVNT	ac40	5230	Ant2	14.142	23.88	Pass
NVNT	ac40	5230	Sum	16.146	23.88	Pass
NVNT	ac40	5270	Ant1	11.313	23.88	Pass
NVNT	ac40	5270	Ant2	14.873	23.88	Pass
NVNT	ac40	5270	Sum	16.458	23.88	Pass
NVNT	ac40	5310	Ant1	11.471	23.88	Pass
NVNT	ac40	5310	Ant2	14.789	23.88	Pass
NVNT	ac40	5310	Sum	16.45	23.88	Pass
NVNT	ac40	5510	Ant1	11.833	23.88	Pass
NVNT	ac40	5510	Ant2	14.921	23.88	Pass
NVNT	ac40	5510	Sum	16.656	23.88	Pass
NVNT	ac40	5590	Ant1	12.275	23.88	Pass
NVNT	ac40	5590	Ant2	14.853	23.88	Pass
NVNT	ac40	5590	Sum	16.763	23.88	Pass
NVNT	ac40	5670	Ant1	13.239	23.88	Pass
NVNT	ac40	5670	Ant2	13.52	23.88	Pass
NVNT	ac40	5670	Sum	16.392	23.88	Pass
NVNT	ac40	5755	Ant1	12.46	29.88	Pass
NVNT	ac40	5755	Ant2	13.625	29.88	Pass
NVNT	ac40	5755	Sum	16.092	29.88	Pass
NVNT	ac40	5795	Ant1	12.318	29.88	Pass
NVNT	ac40	5795	Ant2	14.109	29.88	Pass
NVNT	ac40	5795	Sum	16.315	29.88	Pass
NVNT	ac80	5210	Ant1	11.72	23.88	Pass

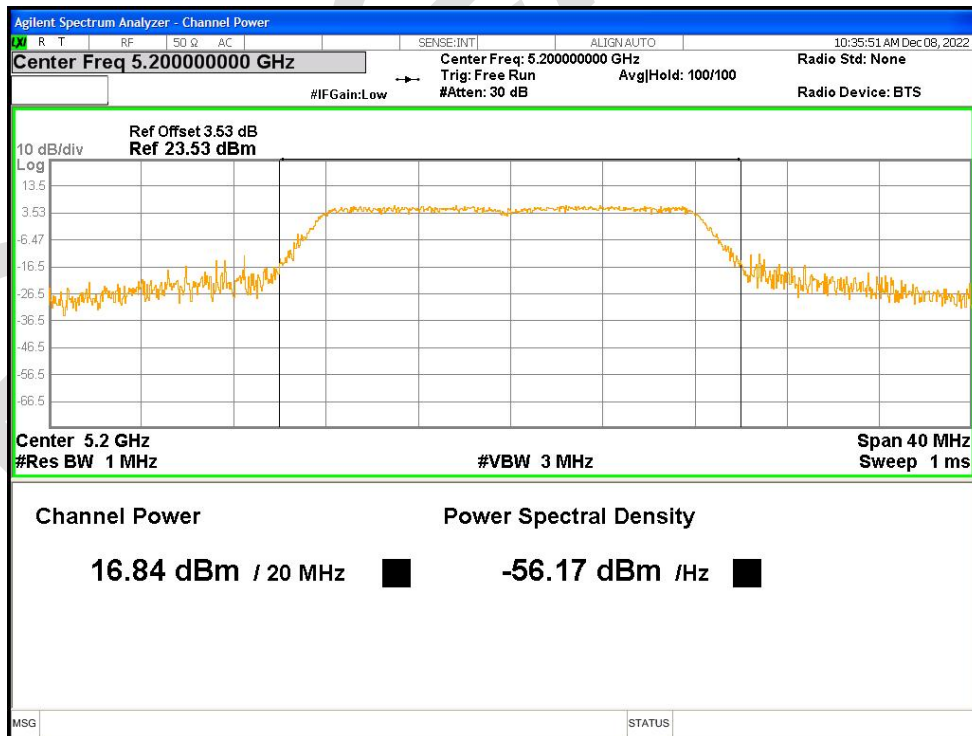
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NVNT	ac80	5290	Ant2	14.708	23.88	Pass
NVNT	ac80	5290	Sum	16.248	23.88	Pass
NVNT	ac80	5530	Ant1	11.13	23.88	Pass
NVNT	ac80	5530	Ant2	14.376	23.88	Pass
NVNT	ac80	5530	Sum	16.06	23.88	Pass
NVNT	ac80	5610	Ant1	12.022	23.88	Pass
NVNT	ac80	5610	Ant2	14.023	23.88	Pass
NVNT	ac80	5610	Sum	16.147	23.88	Pass
NVNT	ac80	5690	Ant1	13.136	23.88	Pass
NVNT	ac80	5690	Ant2	13.465	23.88	Pass
NVNT	ac80	5690	Sum	16.314	23.88	Pass
NVNT	ac80	5775	Ant1	12.338	29.88	Pass
NVNT	ac80	5775	Ant2	13.83	29.88	Pass
NVNT	ac80	5775	Sum	16.158	29.88	Pass
NVNT	n20	5180	Ant1	12.252	23.88	Pass
NVNT	n20	5180	Ant2	15.156	23.88	Pass
NVNT	n20	5180	Sum	16.953	23.88	Pass
NVNT	n20	5200	Ant1	12.781	23.88	Pass
NVNT	n20	5200	Ant2	15.179	23.88	Pass
NVNT	n20	5200	Sum	17.154	23.88	Pass
NVNT	n20	5240	Ant1	12.621	23.88	Pass
NVNT	n20	5240	Ant2	15.097	23.88	Pass
NVNT	n20	5240	Sum	17.043	23.88	Pass
NVNT	n20	5260	Ant1	12.1	23.88	Pass
NVNT	n20	5260	Ant2	15.183	23.88	Pass
NVNT	n20	5260	Sum	16.92	23.88	Pass
NVNT	n20	5280	Ant1	11.513	23.88	Pass
NVNT	n20	5280	Ant2	15.213	23.88	Pass
NVNT	n20	5280	Sum	16.756	23.88	Pass
NVNT	n20	5320	Ant1	11.89	23.88	Pass
NVNT	n20	5320	Ant2	15.164	23.88	Pass
NVNT	n20	5320	Sum	16.839	23.88	Pass
NVNT	n20	5500	Ant1	11.958	23.88	Pass
NVNT	n20	5500	Ant2	15.436	23.88	Pass
NVNT	n20	5500	Sum	17.047	23.88	Pass
NVNT	n20	5600	Ant1	13.365	23.88	Pass
NVNT	n20	5600	Ant2	15.097	23.88	Pass
NVNT	n20	5600	Sum	17.327	23.88	Pass
NVNT	n20	5700	Ant1	14.353	23.88	Pass
NVNT	n20	5700	Ant2	14.503	23.88	Pass
NVNT	n20	5700	Sum	17.439	23.88	Pass
NVNT	n20	5745	Ant1	13.953	29.88	Pass
NVNT	n20	5745	Ant2	14.686	29.88	Pass
NVNT	n20	5745	Sum	17.345	29.88	Pass

NVNT	n20	5785	Ant1	13.233	29.88	Pass
NVNT	n20	5785	Ant2	14.897	29.88	Pass
NVNT	n20	5785	Sum	17.155	29.88	Pass
NVNT	n20	5825	Ant1	12.978	29.88	Pass
NVNT	n20	5825	Ant2	14.729	29.88	Pass
NVNT	n20	5825	Sum	16.951	29.88	Pass
NVNT	n40	5190	Ant1	11.475	23.88	Pass
NVNT	n40	5190	Ant2	14.354	23.88	Pass
NVNT	n40	5190	Sum	16.159	23.88	Pass
NVNT	n40	5230	Ant1	11.509	23.88	Pass
NVNT	n40	5230	Ant2	13.99	23.88	Pass
NVNT	n40	5230	Sum	15.935	23.88	Pass
NVNT	n40	5270	Ant1	11.298	23.88	Pass
NVNT	n40	5270	Ant2	14.763	23.88	Pass
NVNT	n40	5270	Sum	16.378	23.88	Pass
NVNT	n40	5310	Ant1	11.867	23.88	Pass
NVNT	n40	5310	Ant2	15.525	23.88	Pass
NVNT	n40	5310	Sum	17.081	23.88	Pass
NVNT	n40	5510	Ant1	12.194	23.88	Pass
NVNT	n40	5510	Ant2	15.384	23.88	Pass
NVNT	n40	5510	Sum	17.086	23.88	Pass
NVNT	n40	5590	Ant1	12.573	23.88	Pass
NVNT	n40	5590	Ant2	15.272	23.88	Pass
NVNT	n40	5590	Sum	17.139	23.88	Pass
NVNT	n40	5670	Ant1	14.35	23.88	Pass
NVNT	n40	5670	Ant2	14.612	23.88	Pass
NVNT	n40	5670	Sum	17.493	23.88	Pass
NVNT	n40	5755	Ant1	13.624	29.88	Pass
NVNT	n40	5755	Ant2	14.743	29.88	Pass
NVNT	n40	5755	Sum	17.23	29.88	Pass
NVNT	n40	5795	Ant1	13.094	29.88	Pass
NVNT	n40	5795	Ant2	14.984	29.88	Pass
NVNT	n40	5795	Sum	17.151	29.88	Pass

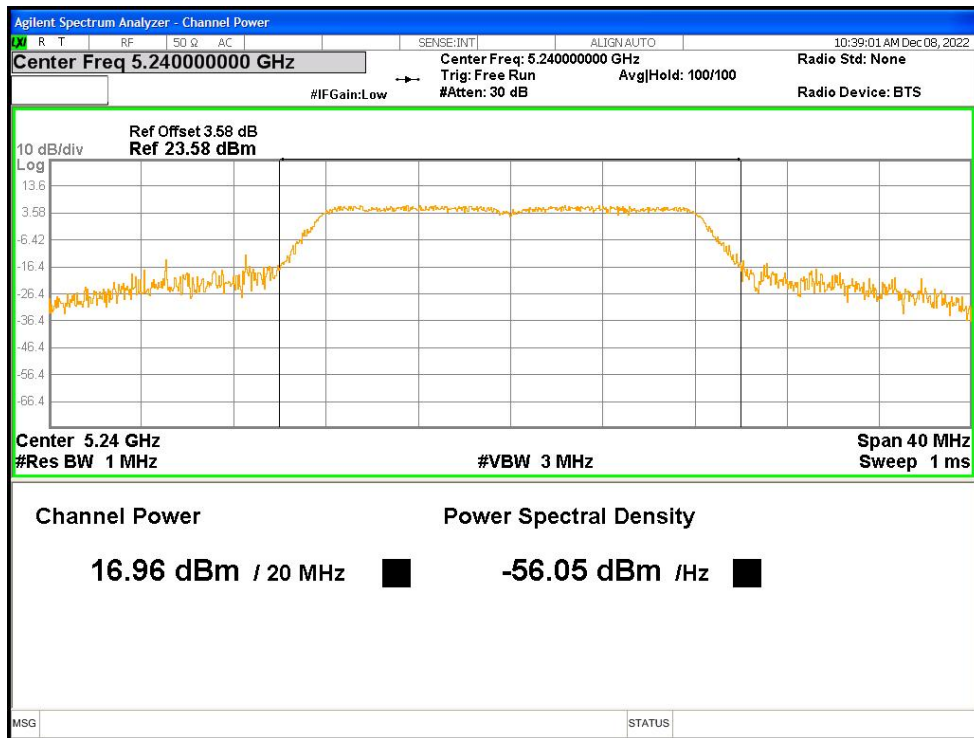
Power NVNT a 5180MHz Ant1



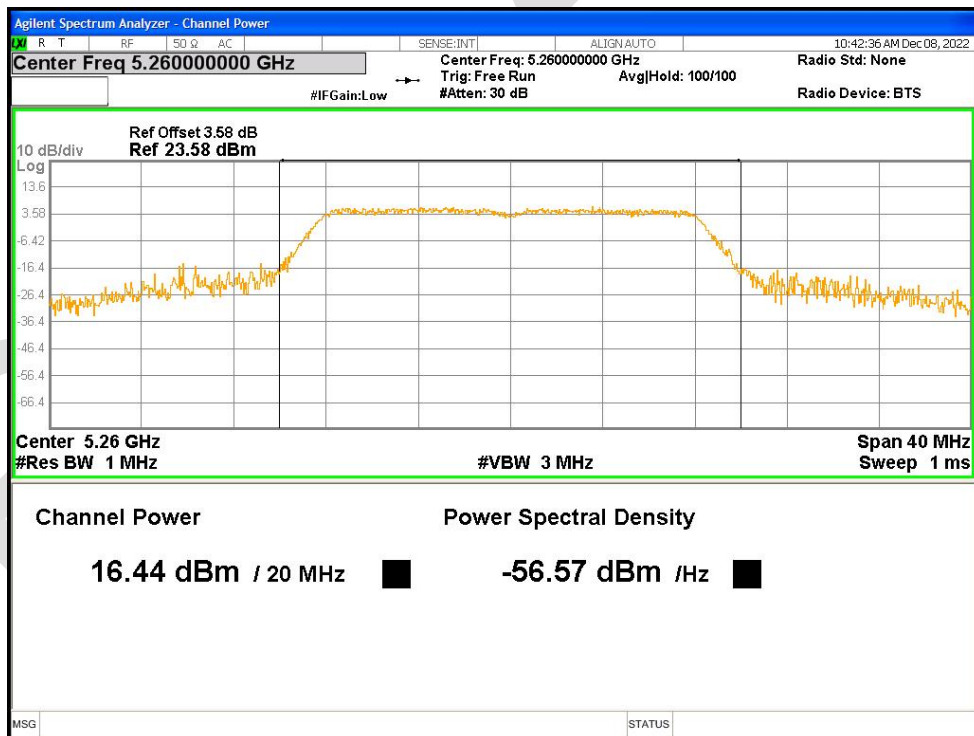
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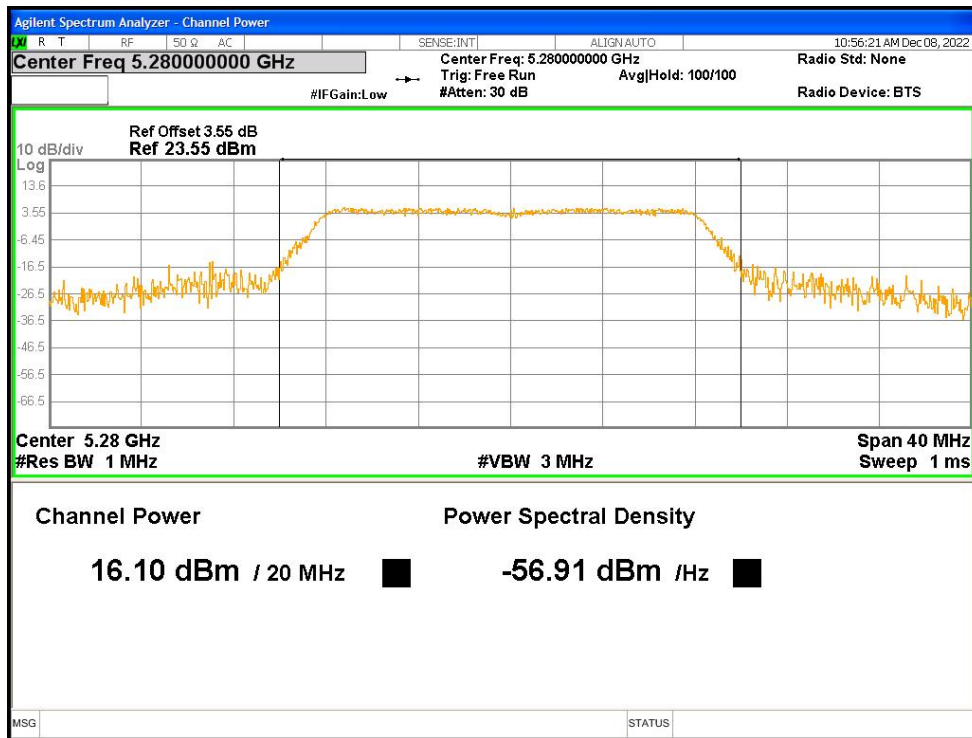
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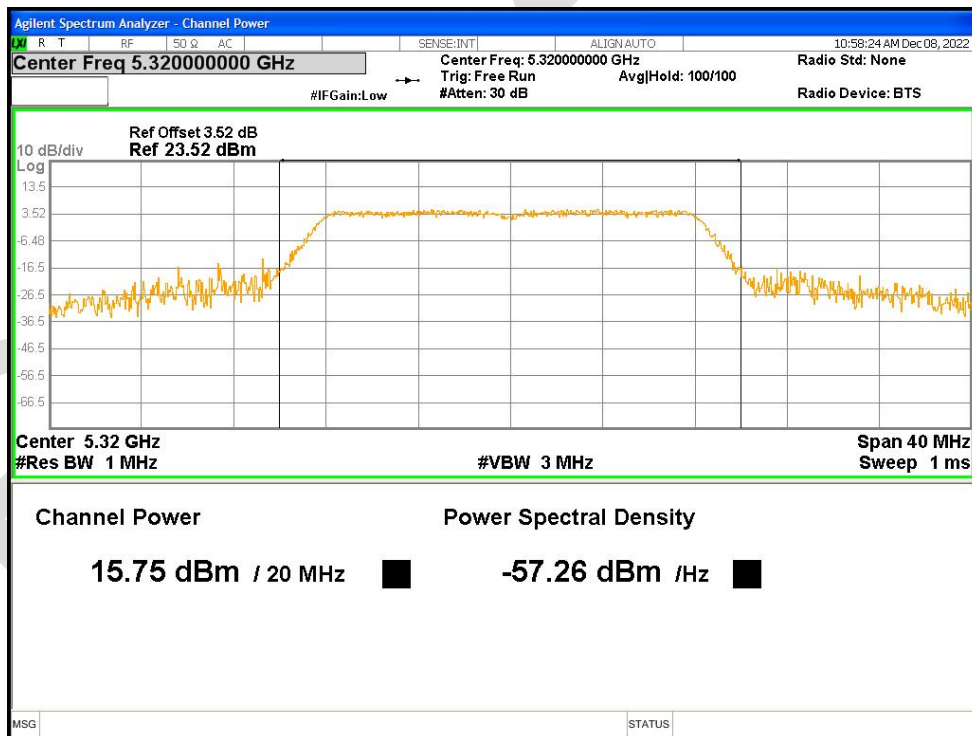
Power NVNT a 5260MHz Ant1



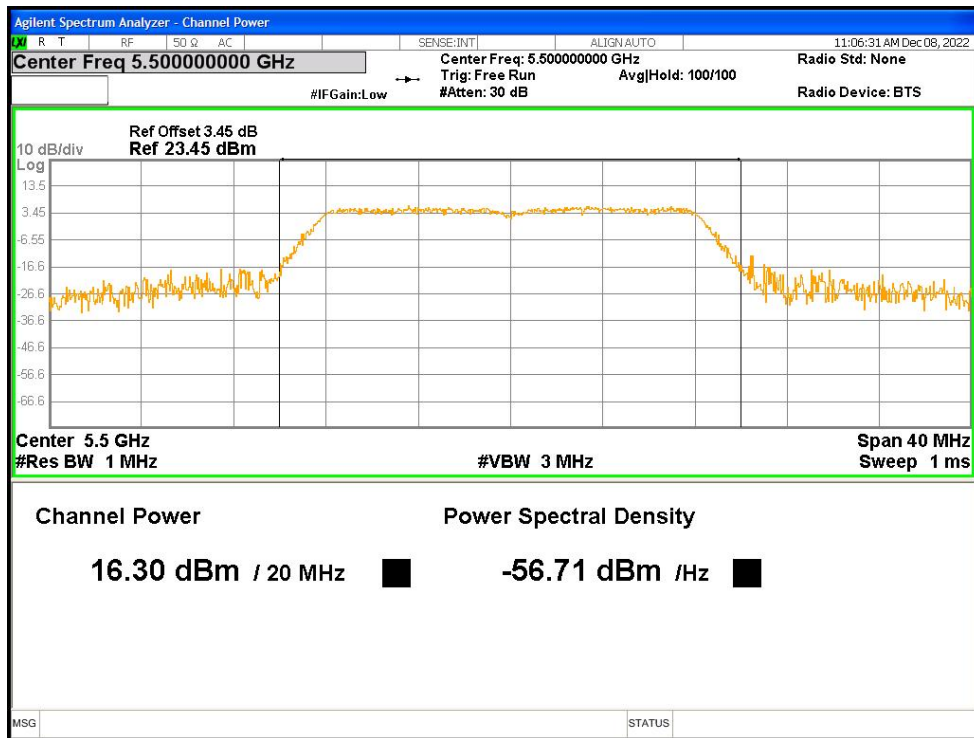
Power NVNT a 5280MHz Ant1



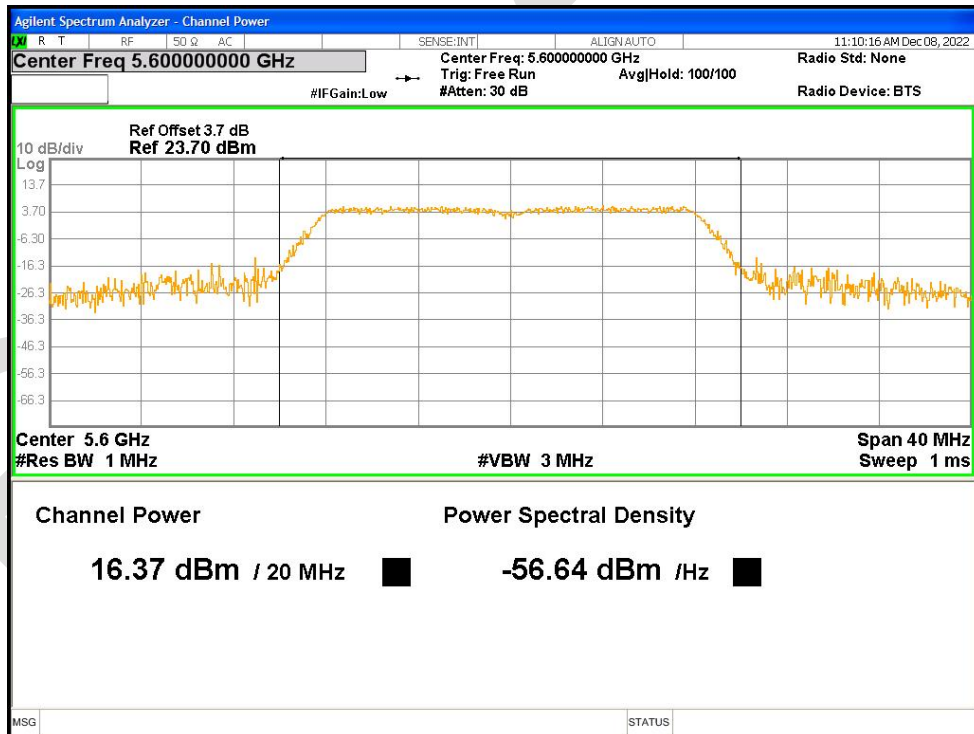
Power NVNT a 5320MHz Ant1



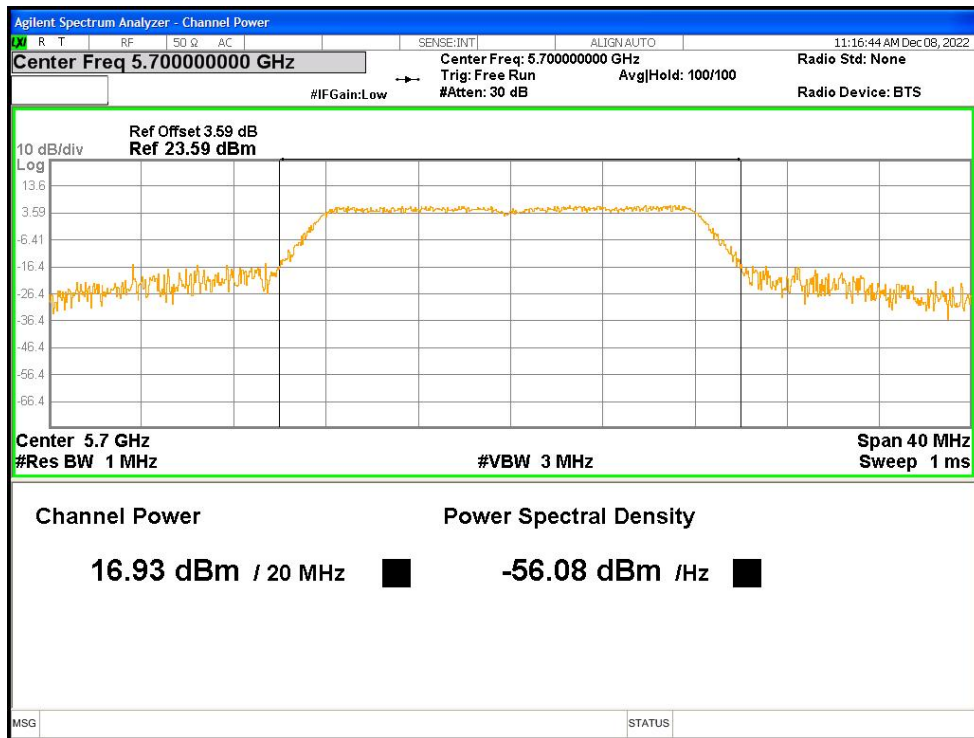
Power NVNT a 5500MHz Ant1



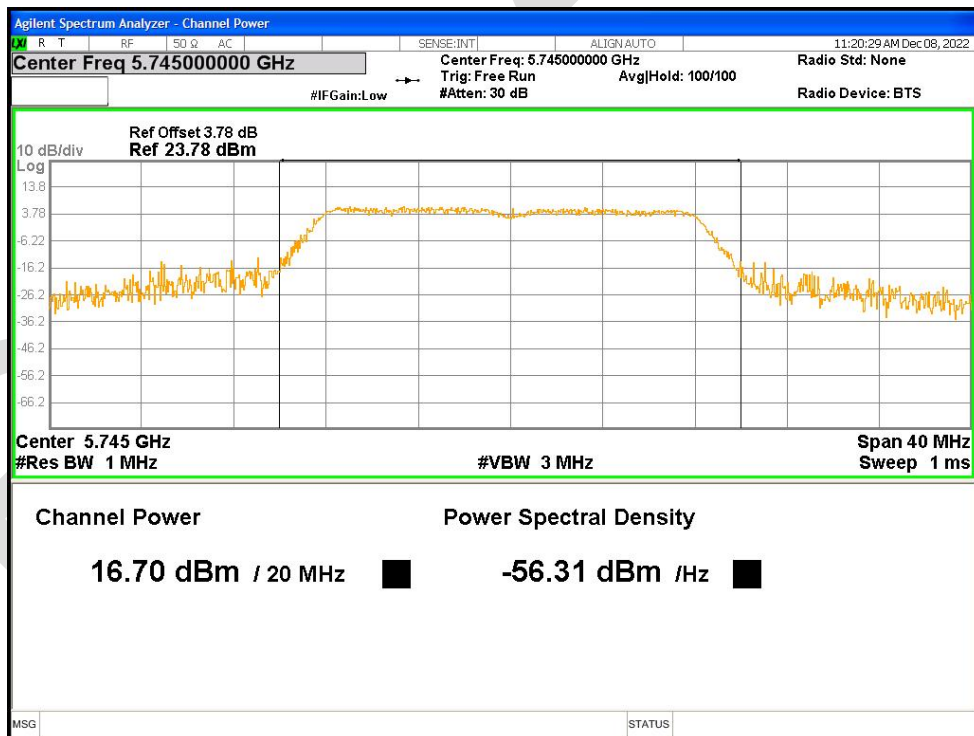
Power NVNT a 5600MHz Ant1



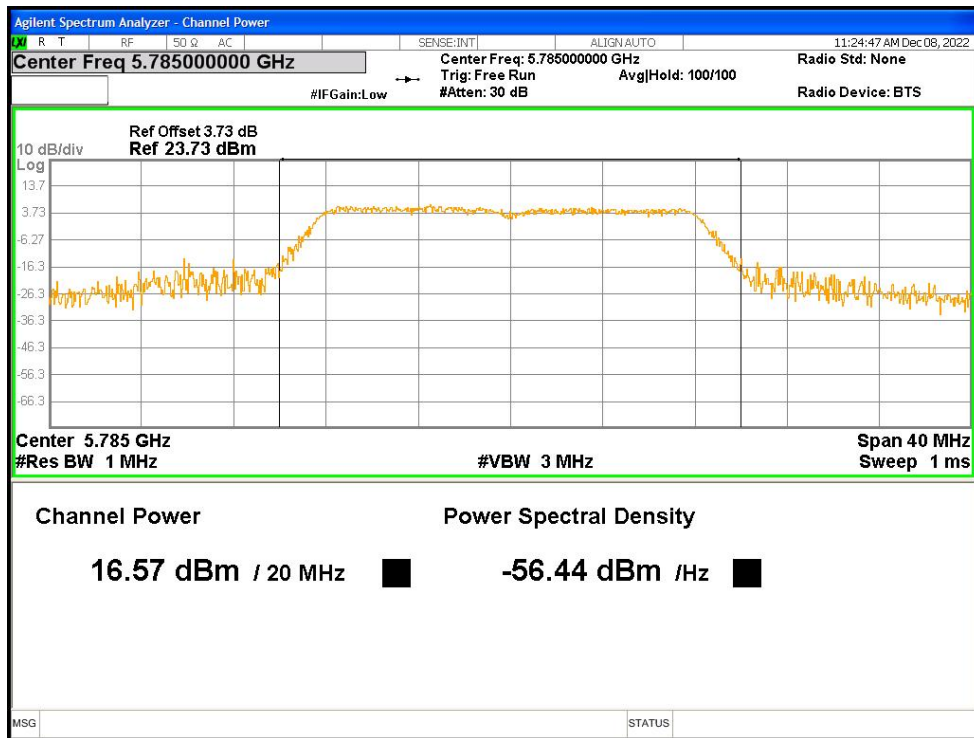
Power NVNT a 5700MHz Ant1



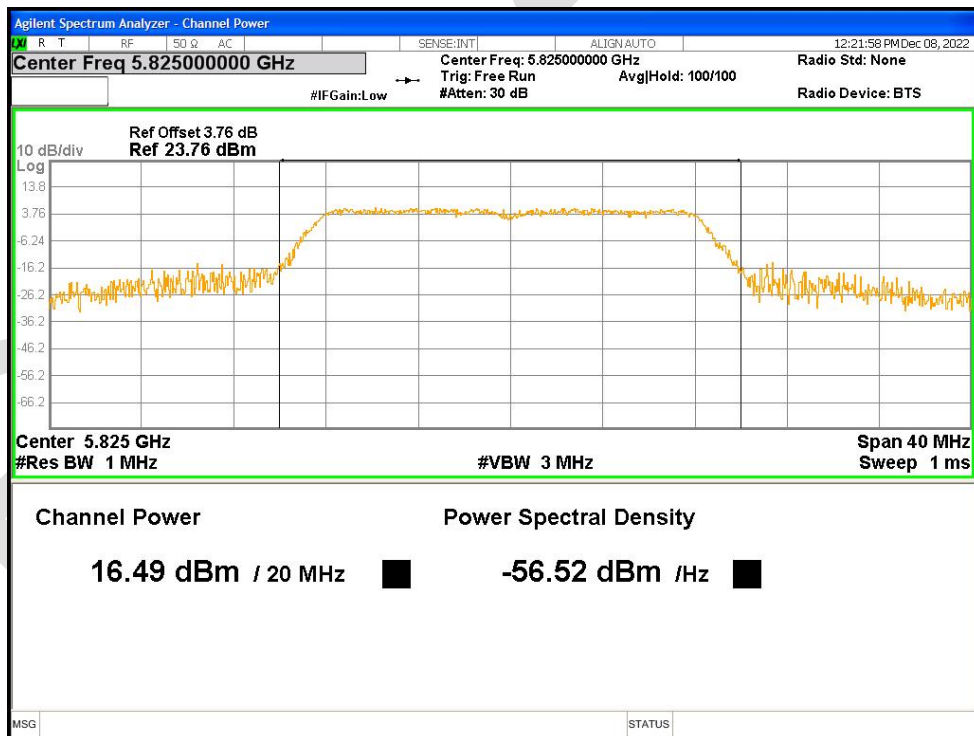
Power NVNT a 5745MHz Ant1



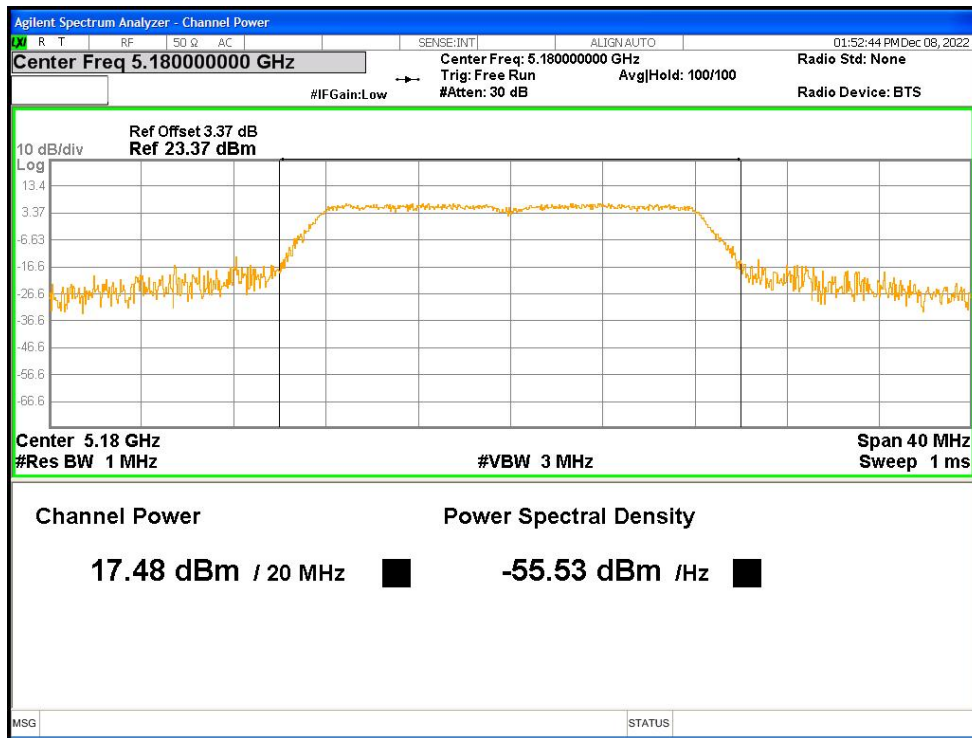
Power NVNT a 5785MHz Ant1



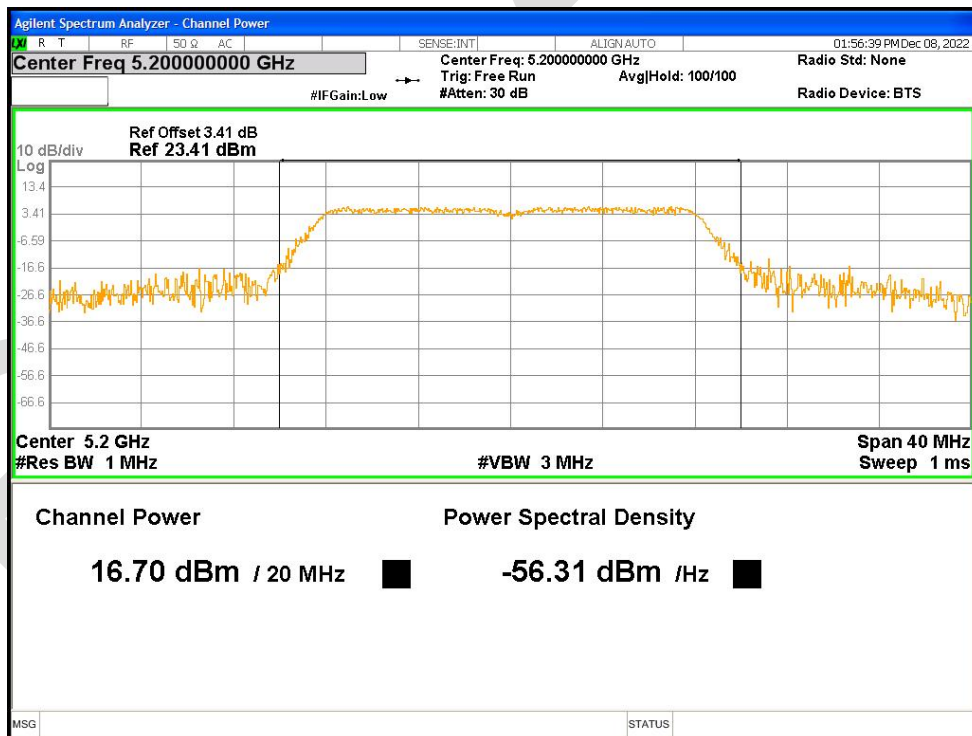
Power NVNT a 5825MHz Ant1



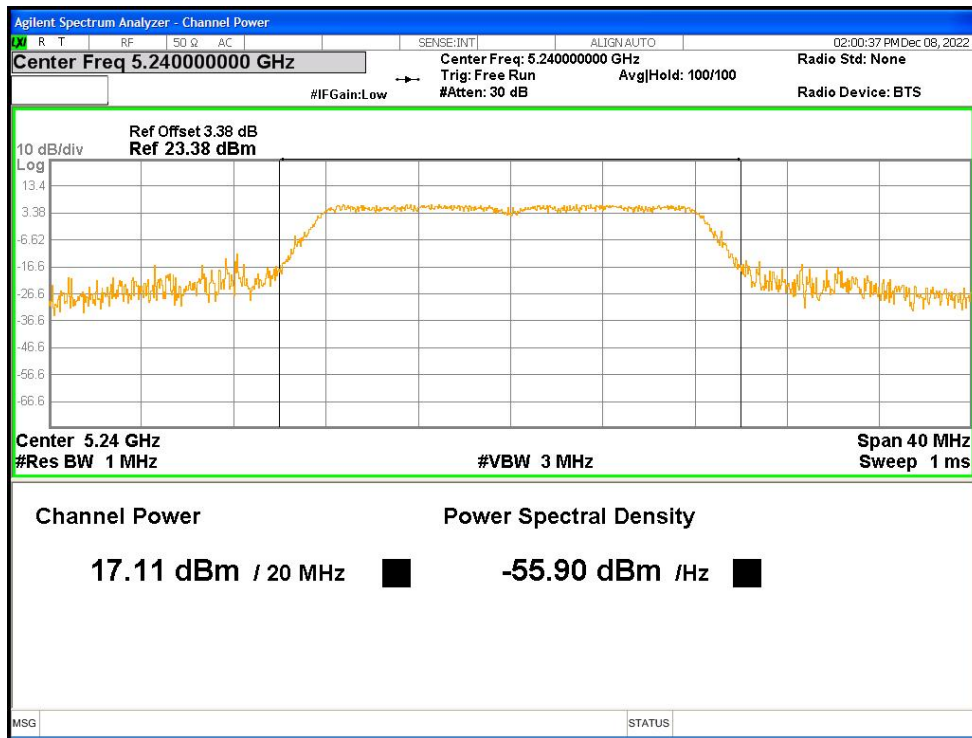
Power NVNT a 5180MHz Ant2



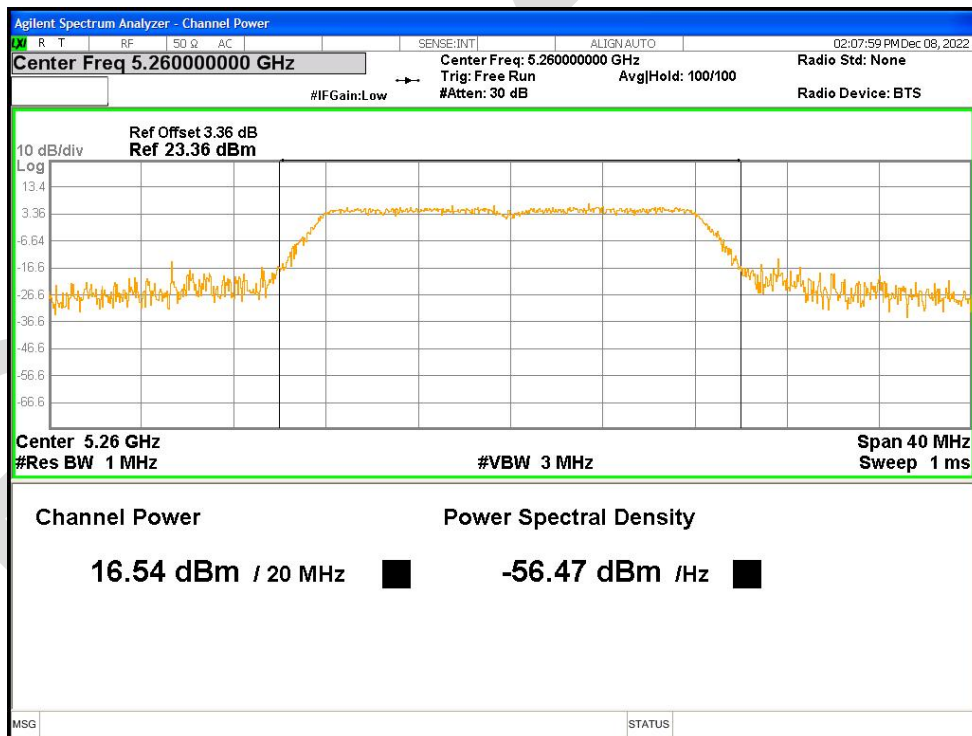
Power NVNT a 5200MHz Ant2



Power NVNT a 5240MHz Ant2



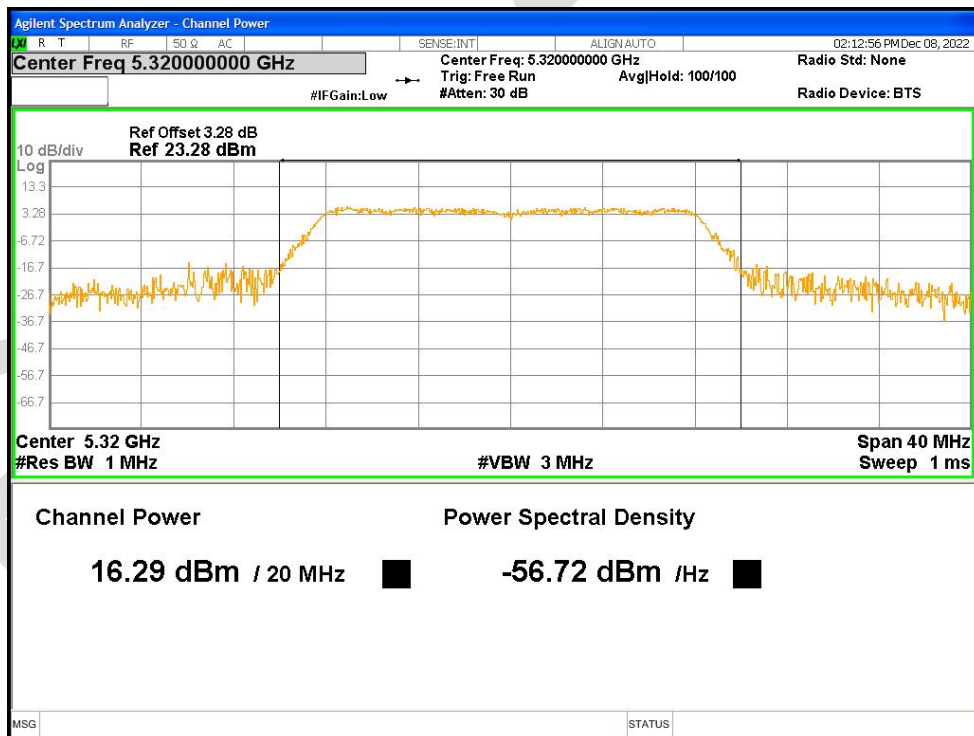
Power NVNT a 5260MHz Ant2



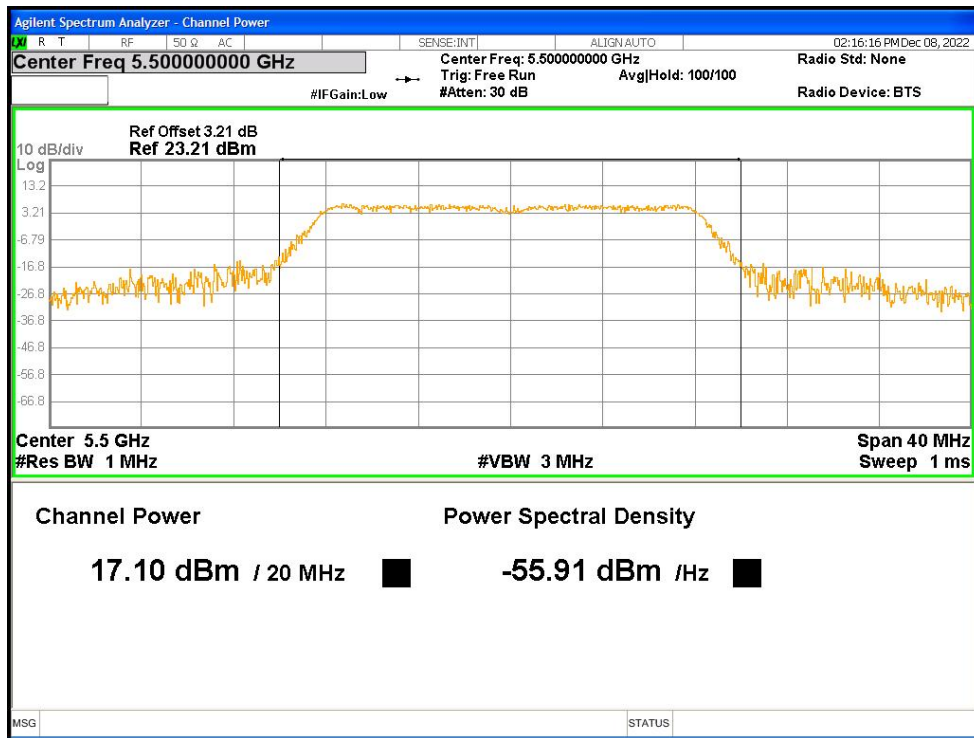
Power NVNT a 5280MHz Ant2



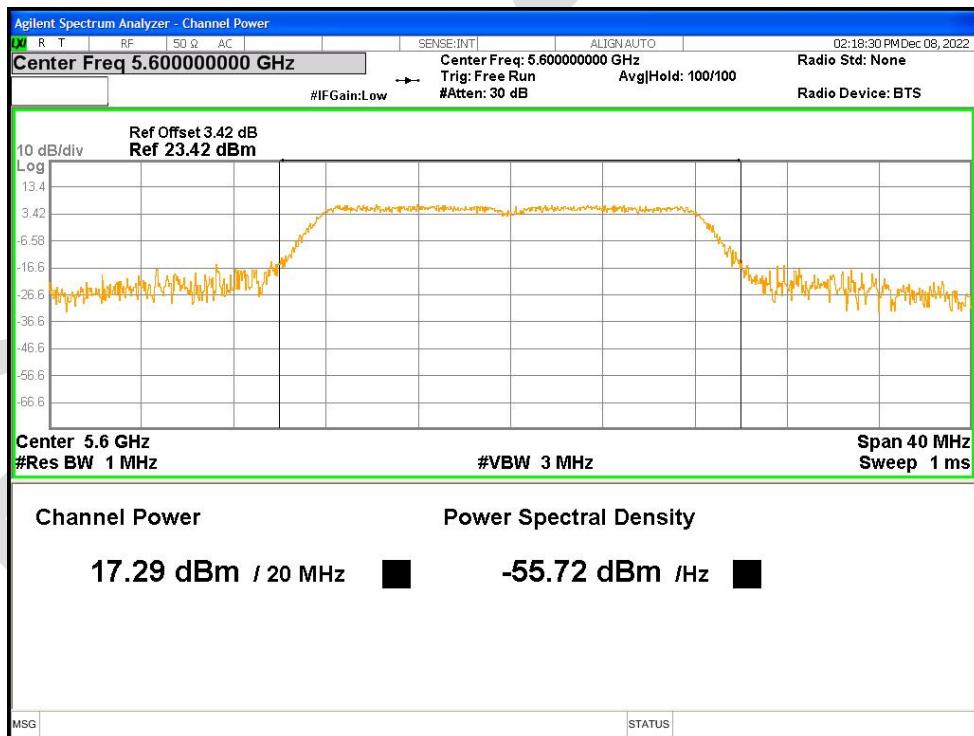
Power NVNT a 5320MHz Ant2



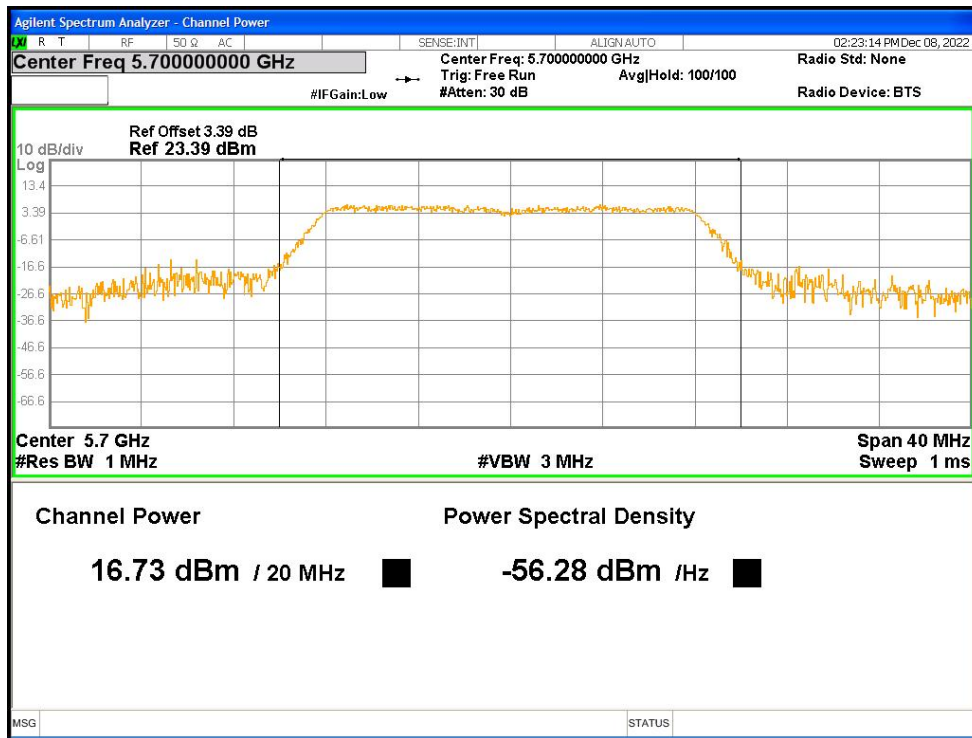
Power NVNT a 5500MHz Ant2



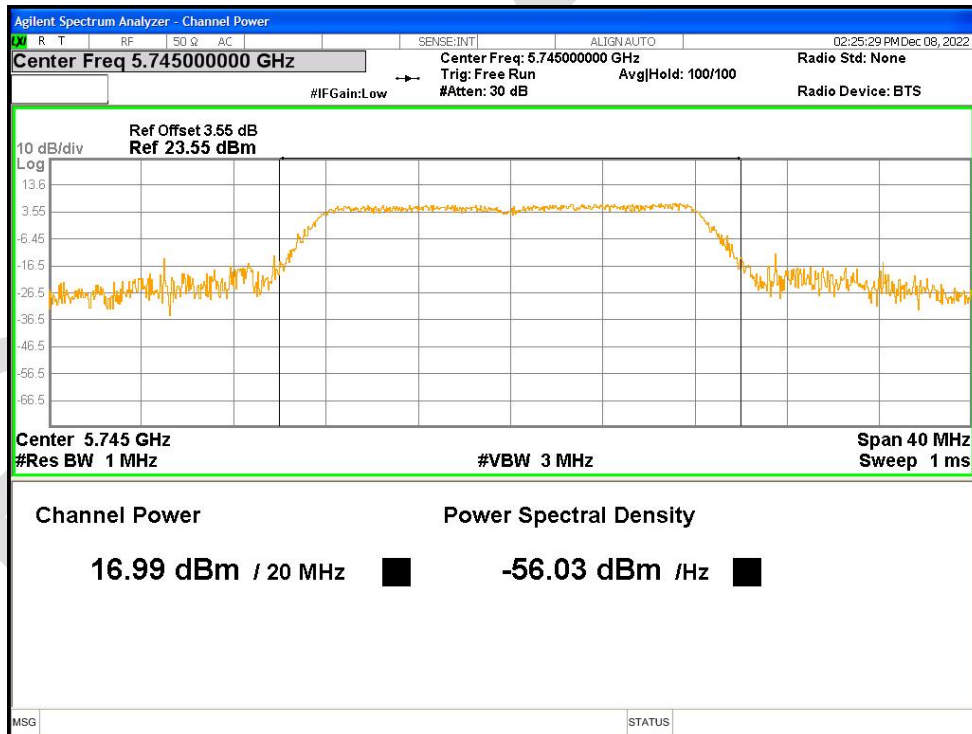
Power NVNT a 5600MHz Ant2



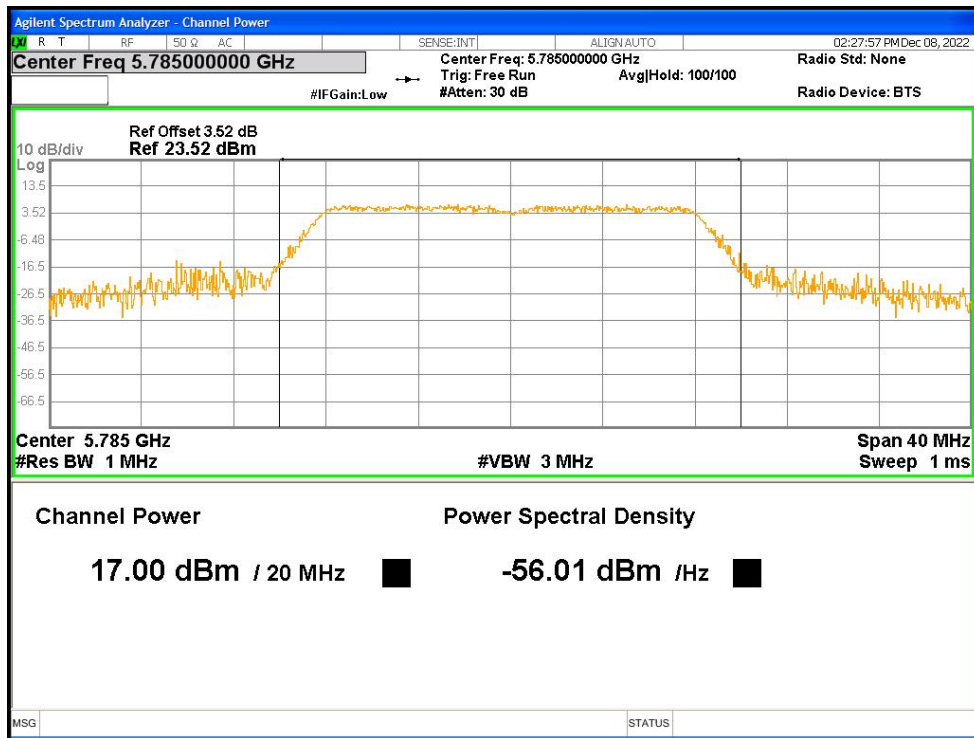
Power NVNT a 5700MHz Ant2



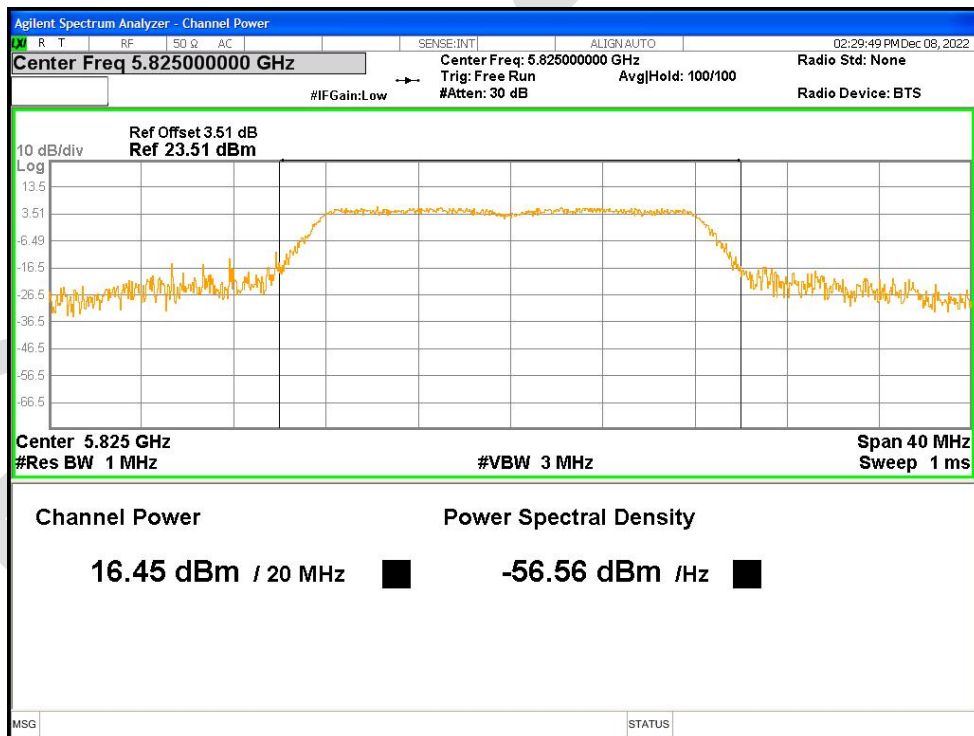
Power NVNT a 5745MHz Ant2



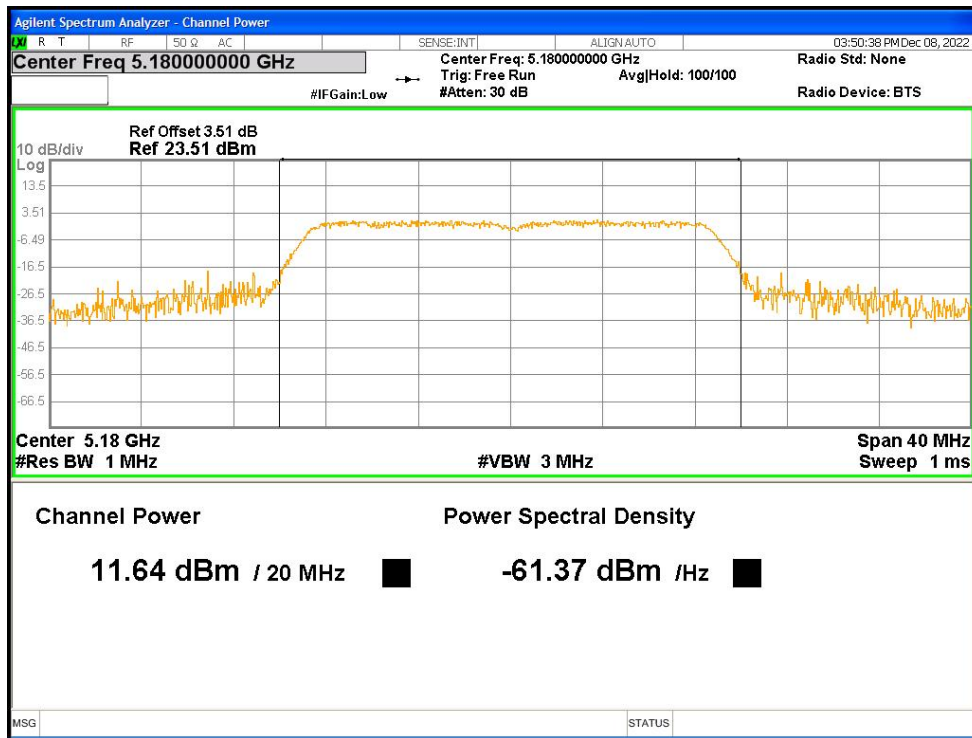
Power NVNT a 5785MHz Ant2



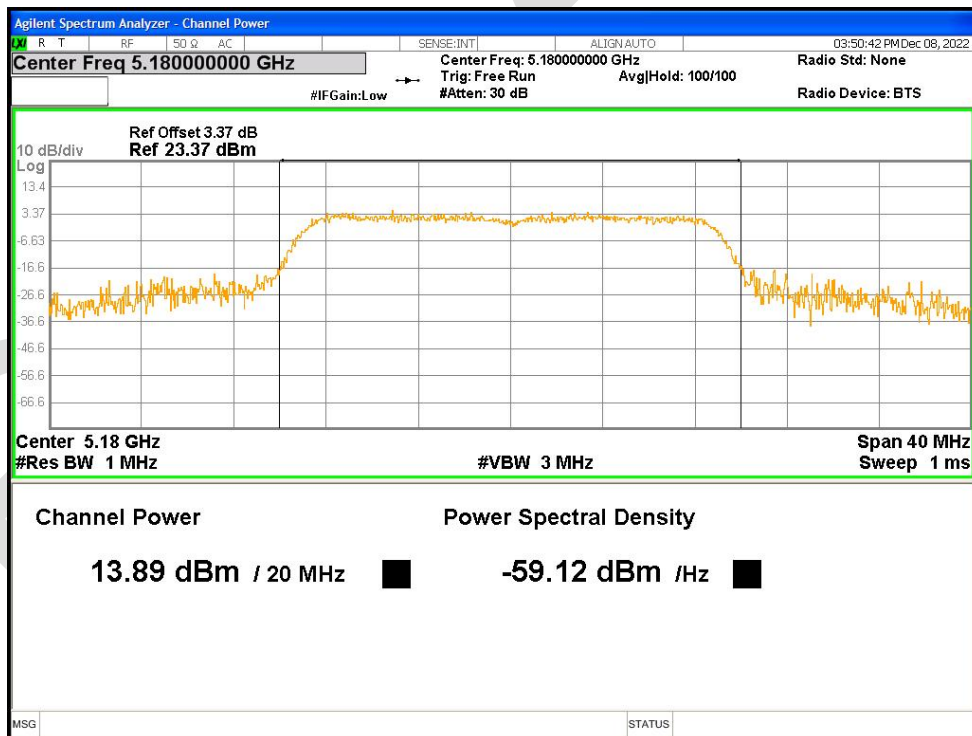
Power NVNT a 5825MHz Ant2



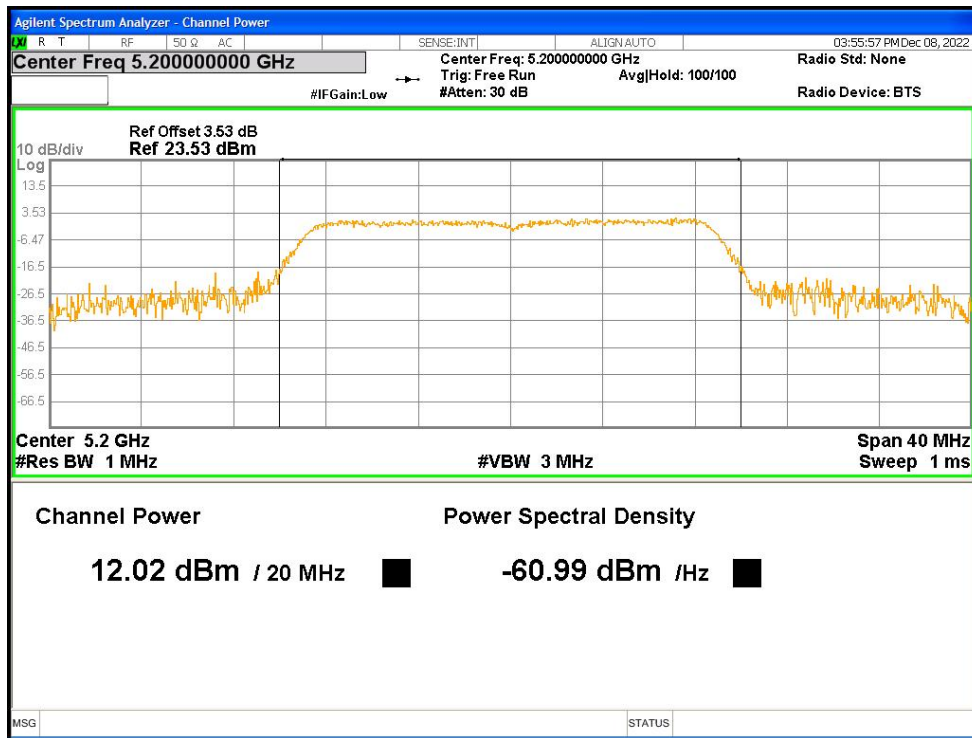
Power NVNT ac20 5180MHz Ant1



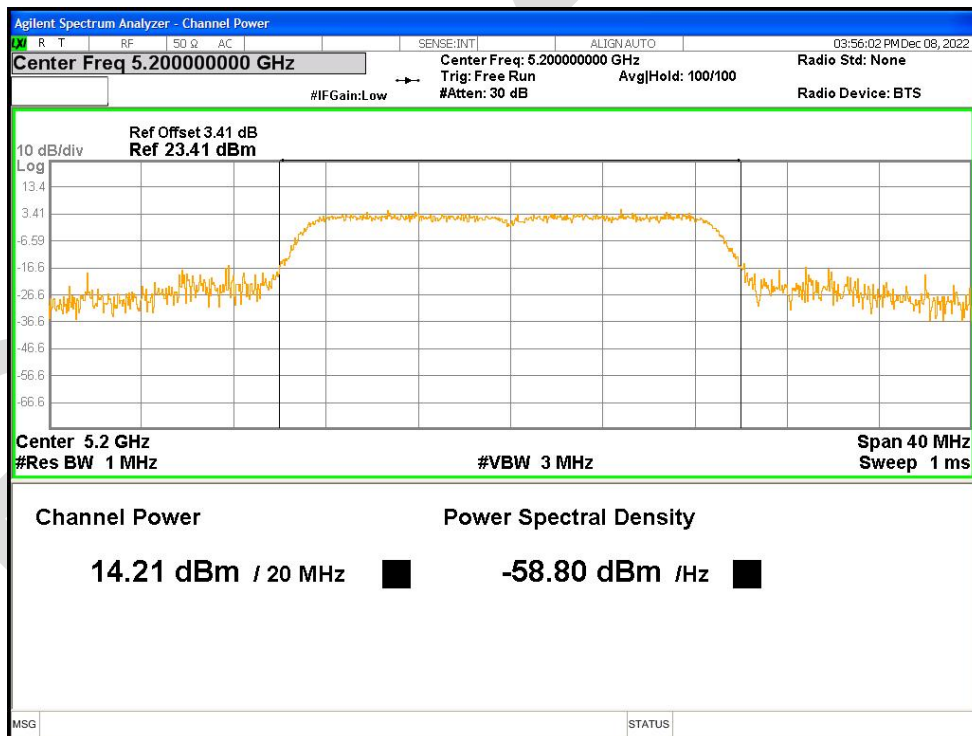
Power NVNT ac20 5180MHz Ant2



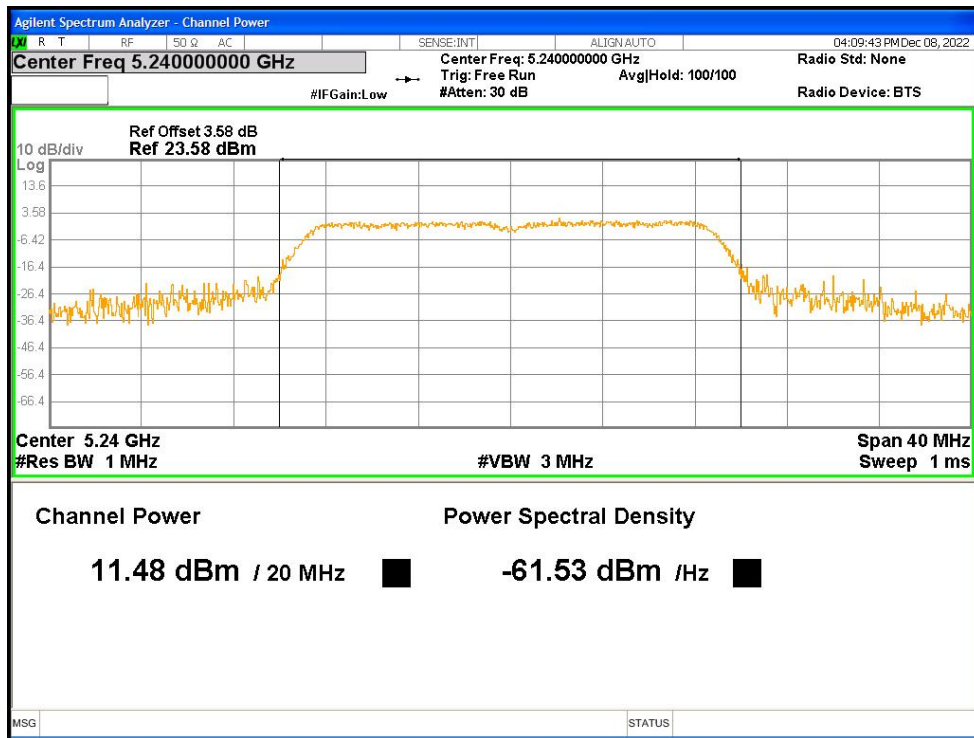
Power NVNT ac20 5200MHz Ant1



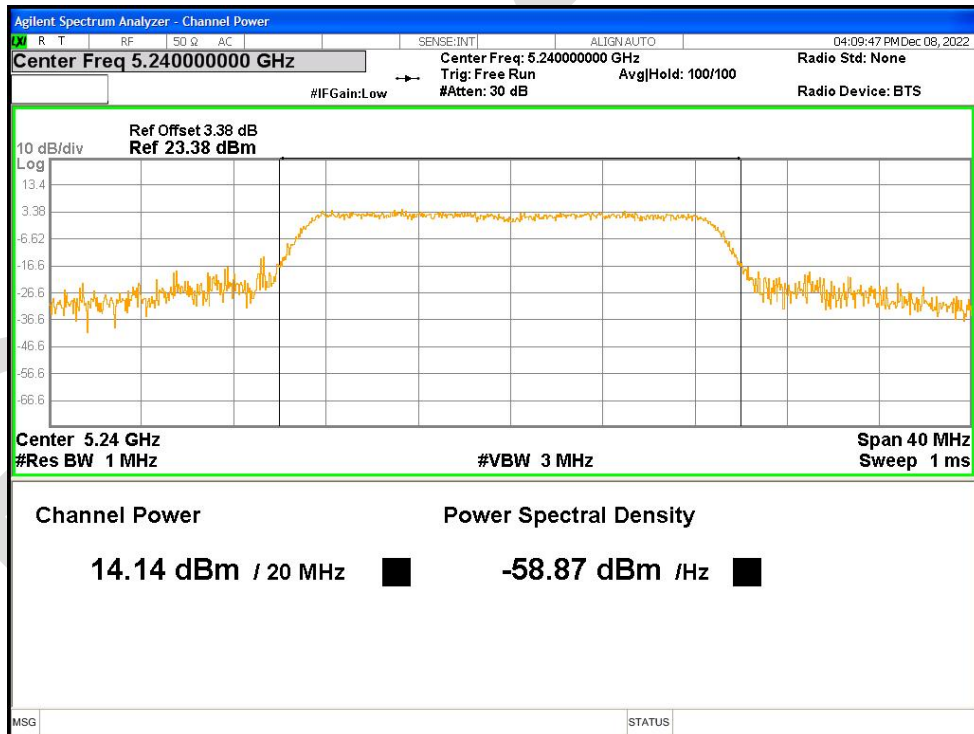
Power NVNT ac20 5200MHz Ant2



Power NVNT ac20 5240MHz Ant1



Power NVNT ac20 5240MHz Ant2



Power NVNT ac20 5260MHz Ant1