



Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Wi-Fi 6E Tri-Band USB 3.0 Adapter - 5374 Mbps

Test Model: AX54005A-USB-WIFI-6E

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



Shenzhen LCS Compliance Testing Laboratory Ltd.
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com
Scan code to check authenticity



B.1 -26dB Bandwidth

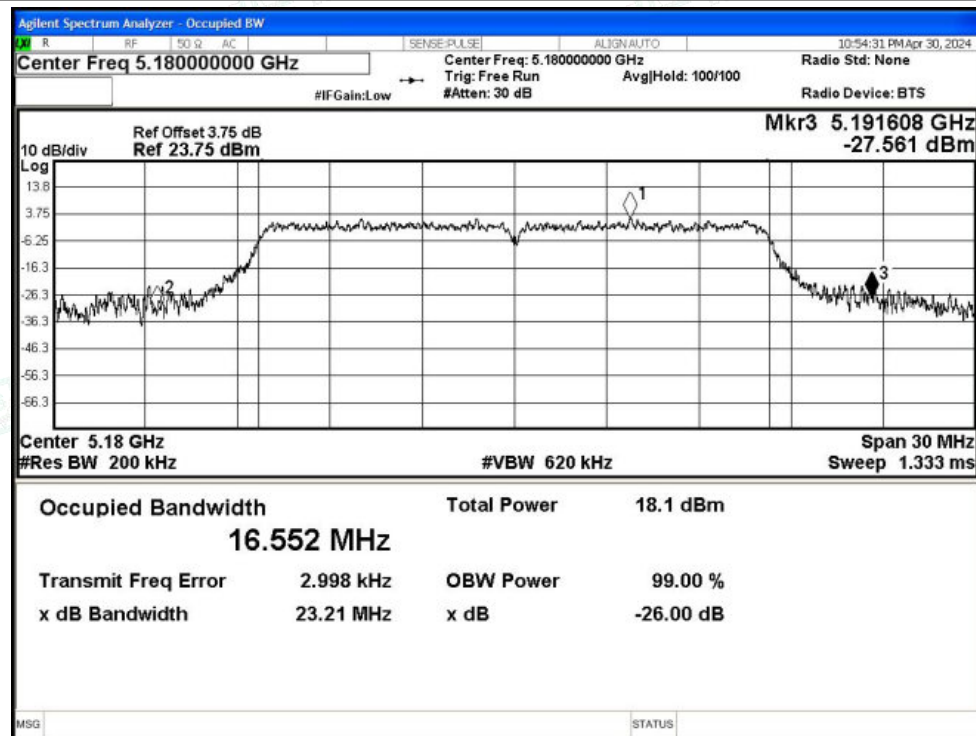
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	23.209	---	Pass
NVNT	a	5200	Ant1	23.221	---	Pass
NVNT	a	5240	Ant1	25.08	---	Pass
NVNT	n20	5180	Ant1	27.148	---	Pass
NVNT	n20	5200	Ant1	26.546	---	Pass
NVNT	n20	5240	Ant1	26.848	---	Pass
NVNT	n40	5190	Ant1	45.43	---	Pass
NVNT	n40	5230	Ant1	41.884	---	Pass
NVNT	ac20	5180	Ant1	27.045	---	Pass
NVNT	ac20	5200	Ant1	24.6	---	Pass
NVNT	ac20	5240	Ant1	24.544	---	Pass
NVNT	ac40	5190	Ant1	43.296	---	Pass
NVNT	ac40	5230	Ant1	41.21	---	Pass
NVNT	ac80	5210	Ant1	81.762	---	Pass
NVNT	ax20	5180	Ant1	26.706	---	Pass
NVNT	ax20	5200	Ant1	27.566	---	Pass
NVNT	ax20	5240	Ant1	29.26	---	Pass
NVNT	ax40	5190	Ant1	53.939	---	Pass
NVNT	ax40	5230	Ant1	40.651	---	Pass
NVNT	ax80	5210	Ant1	78.026	---	Pass



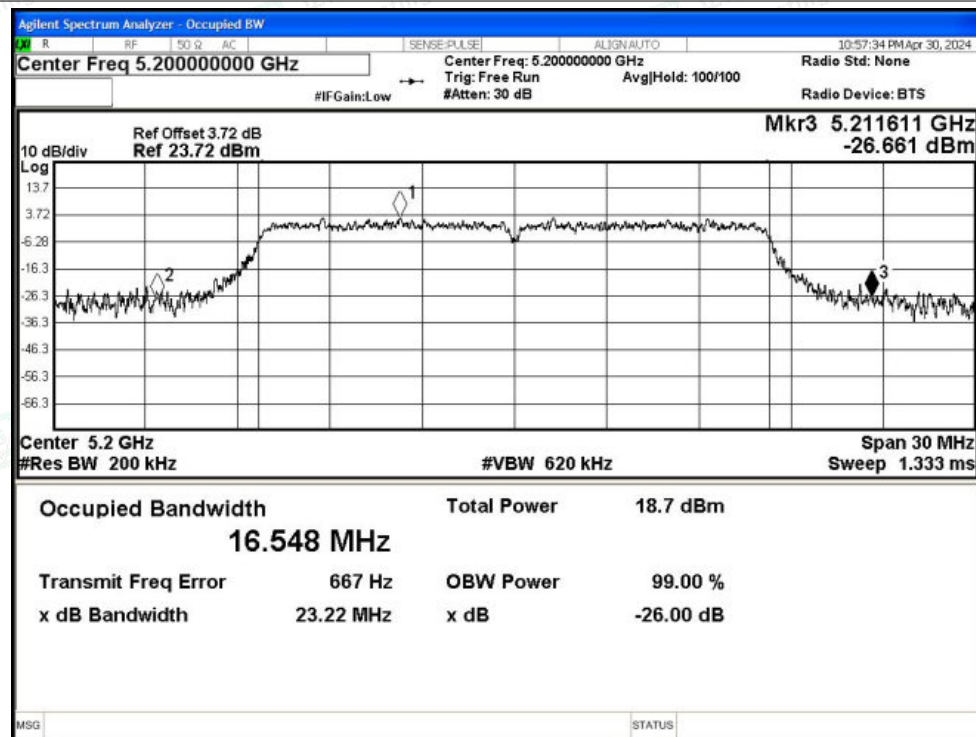


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

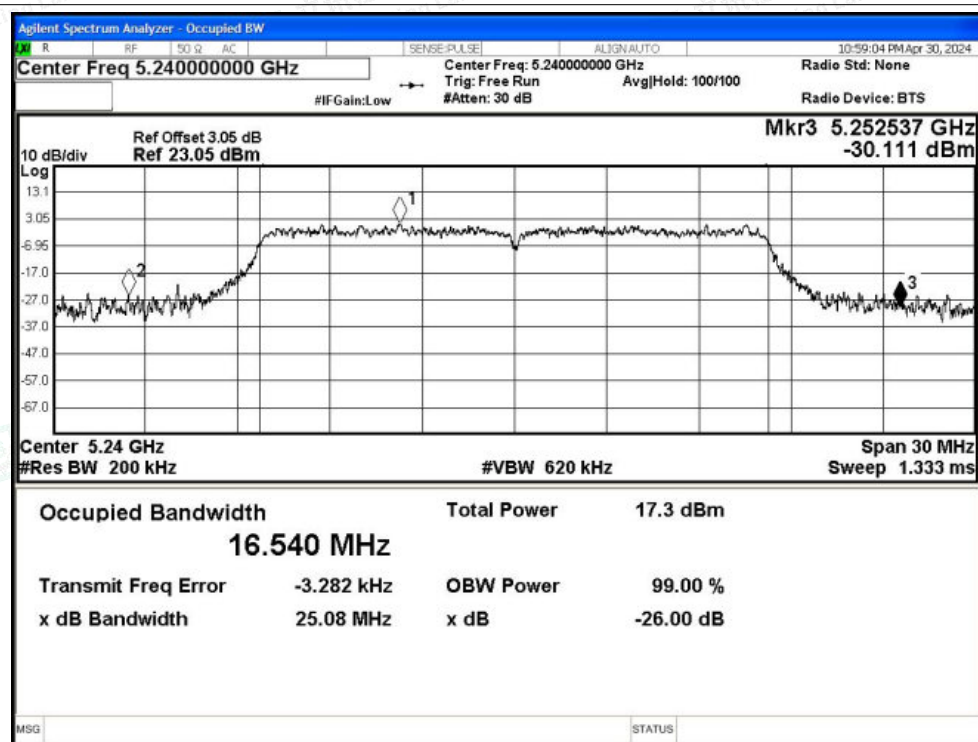


-26dB Bandwidth NVNT a 5200MHz Ant1

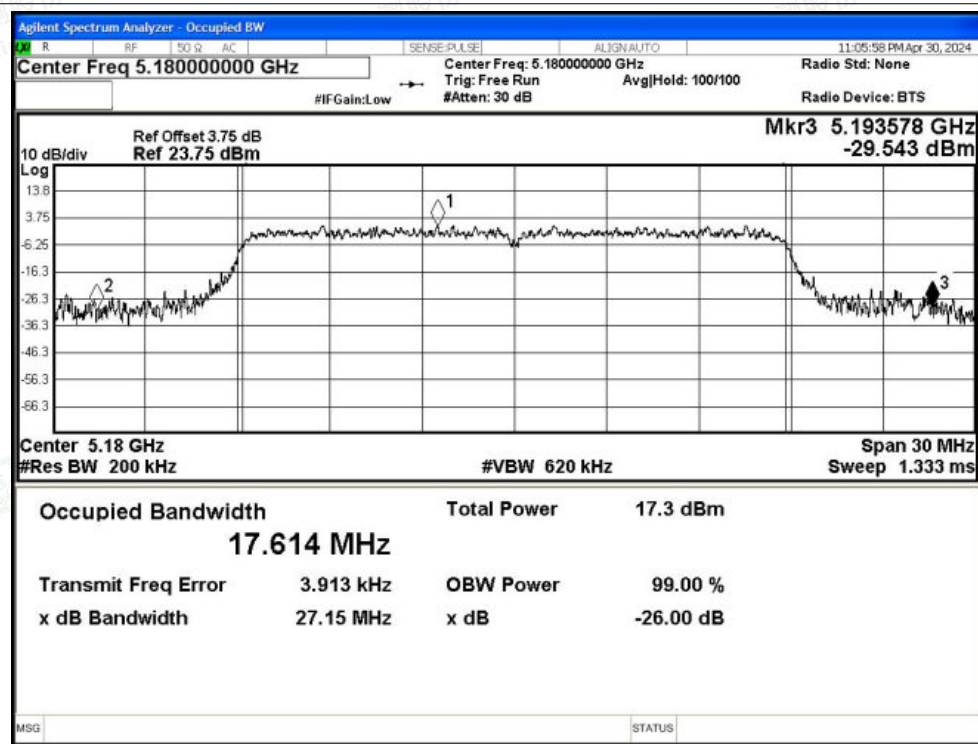




-26dB Bandwidth NVNT a 5240MHz Ant1

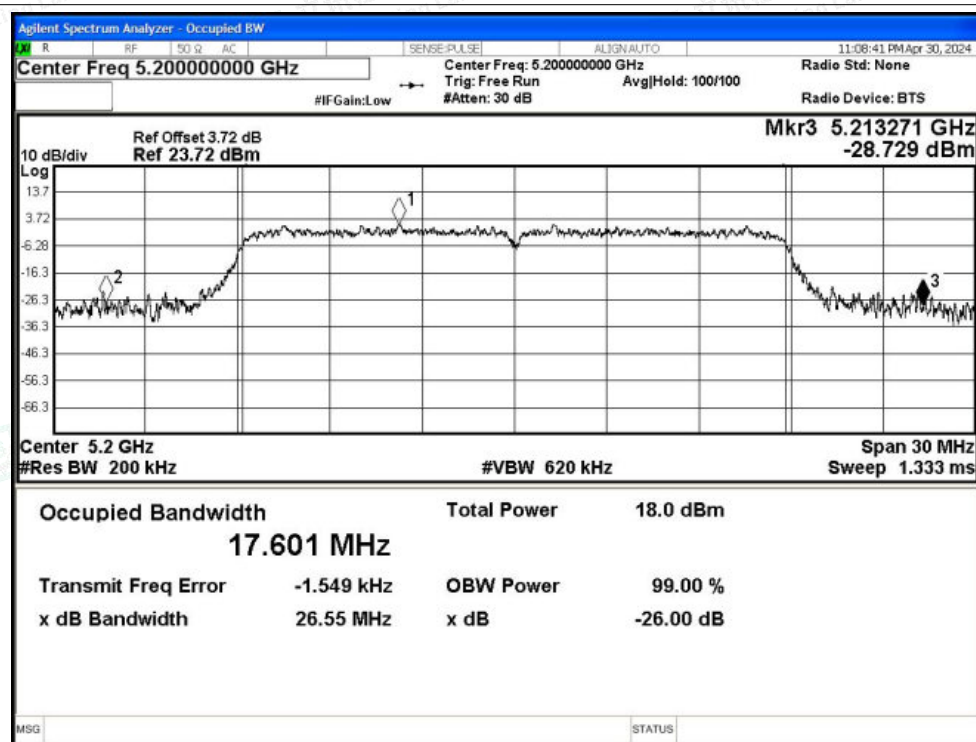


-26dB Bandwidth NVNT n20 5180MHz Ant1

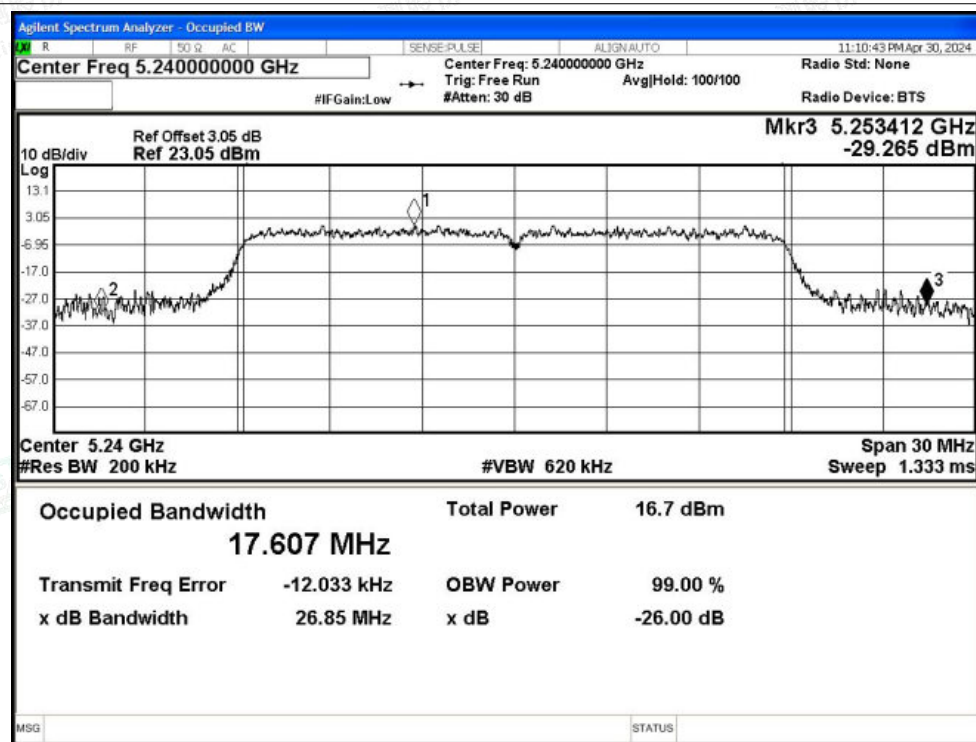




-26dB Bandwidth NVNT n20 5200MHz Ant1

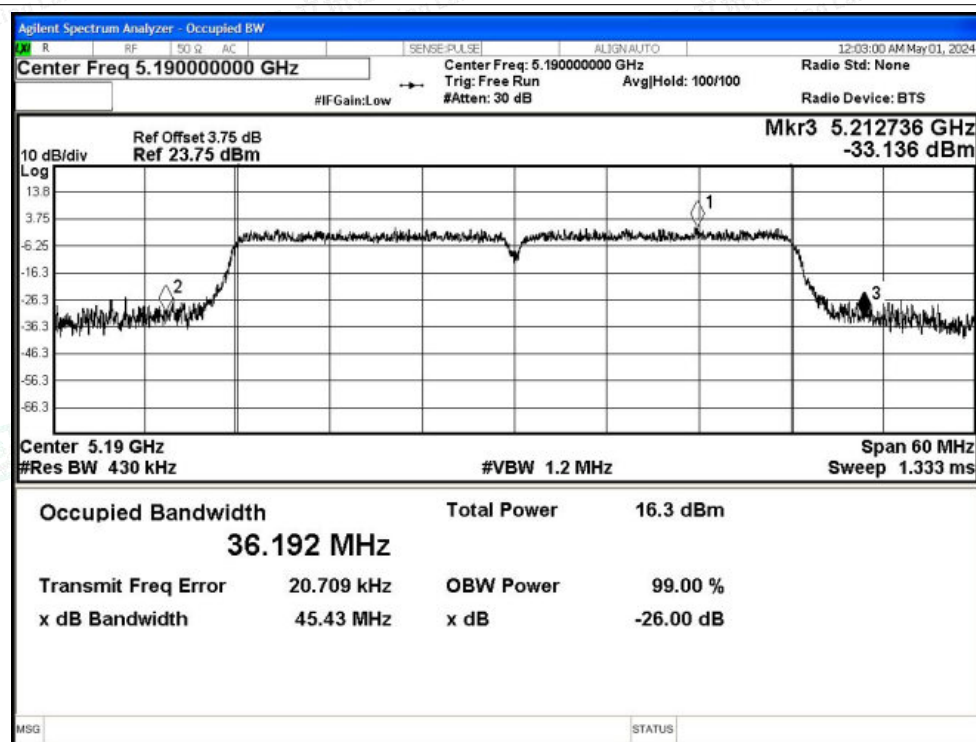


-26dB Bandwidth NVNT n20 5240MHz Ant1

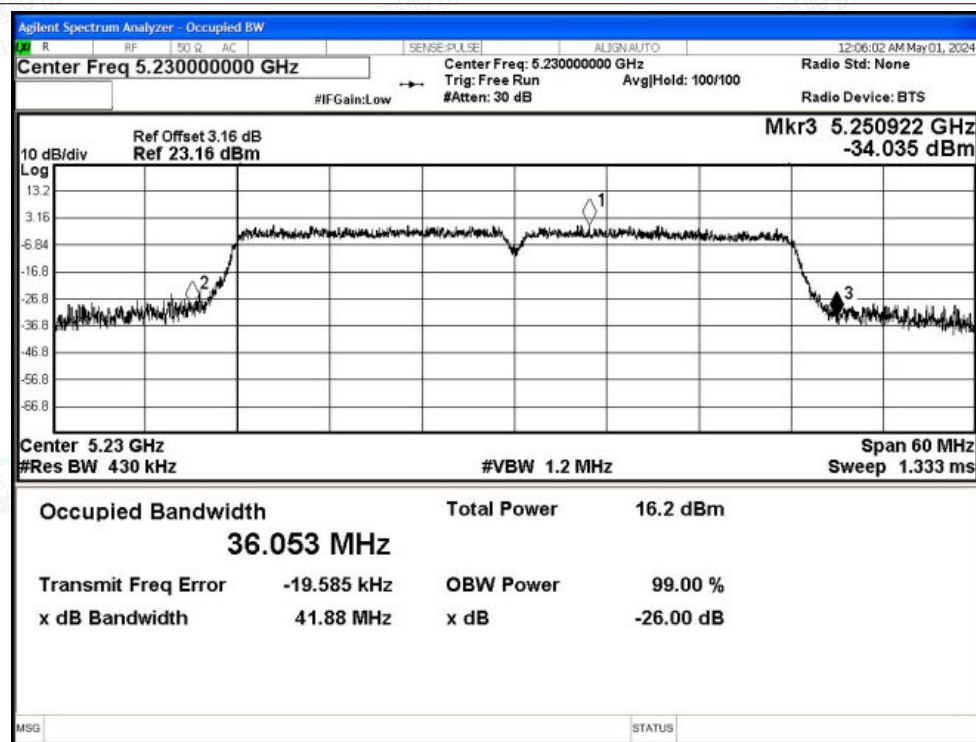




-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1

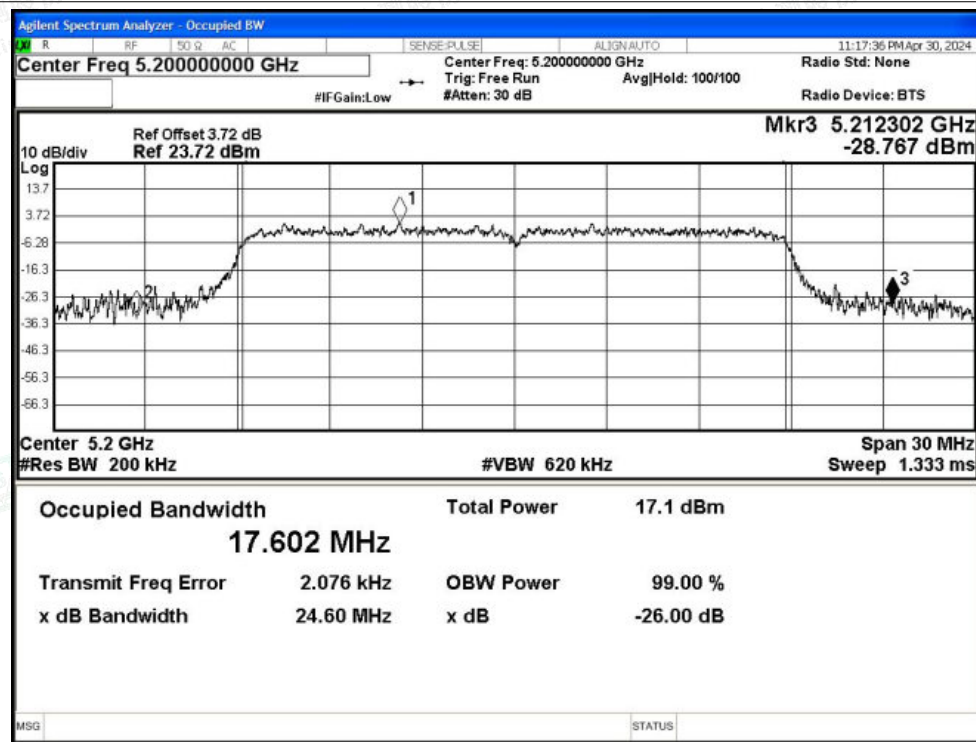




-26dB Bandwidth NVNT ac20 5180MHz Ant1

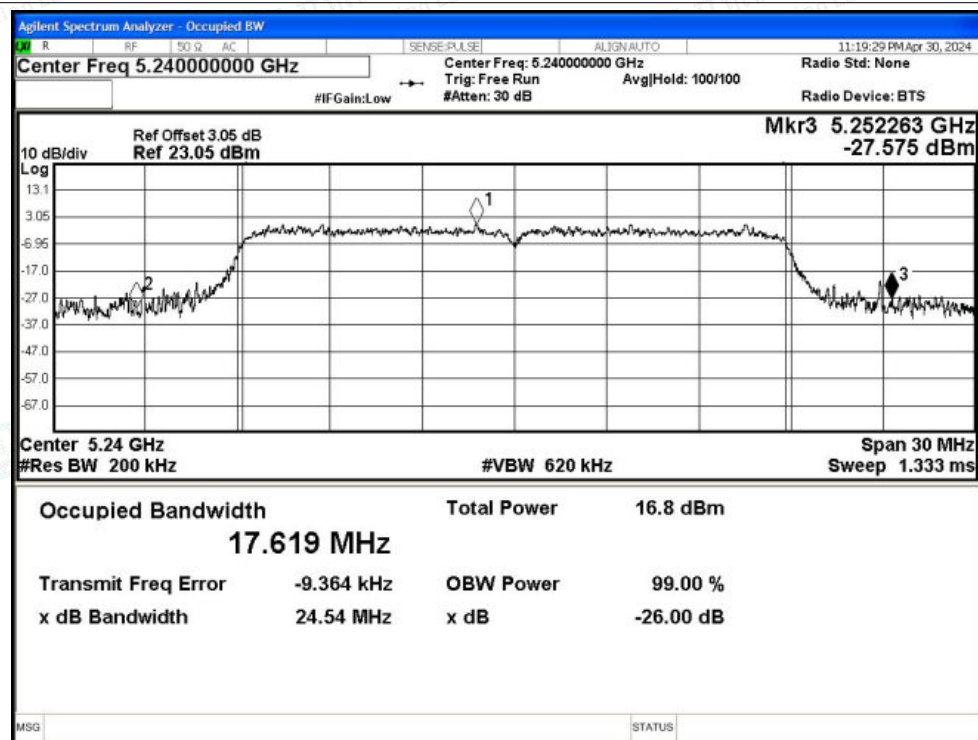


-26dB Bandwidth NVNT ac20 5200MHz Ant1

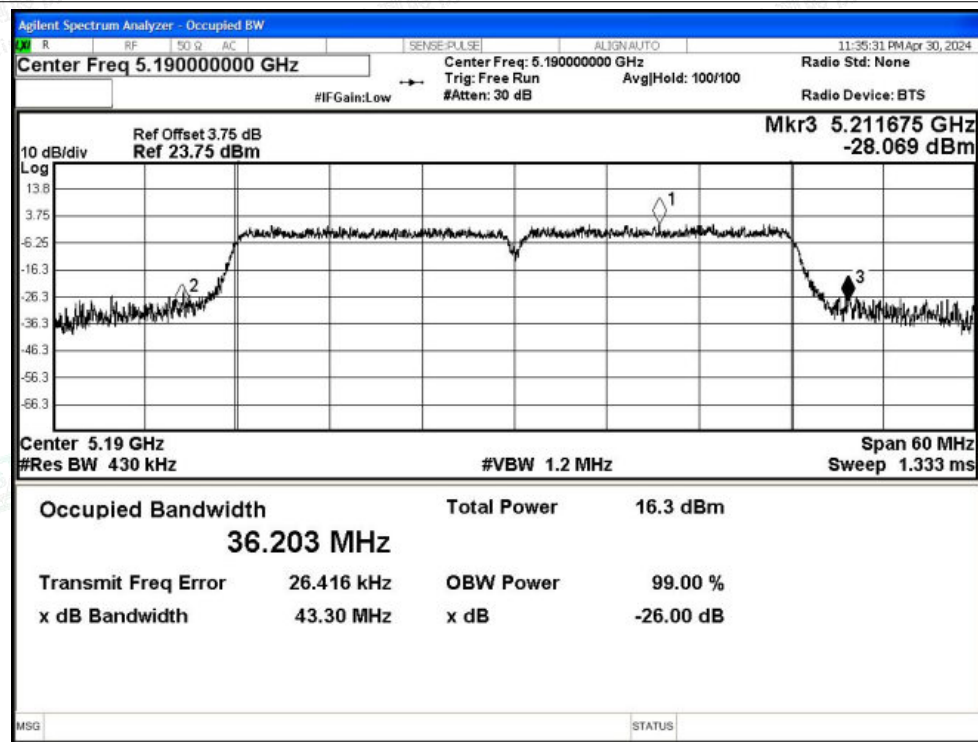




-26dB Bandwidth NVNT ac20 5240MHz Ant1

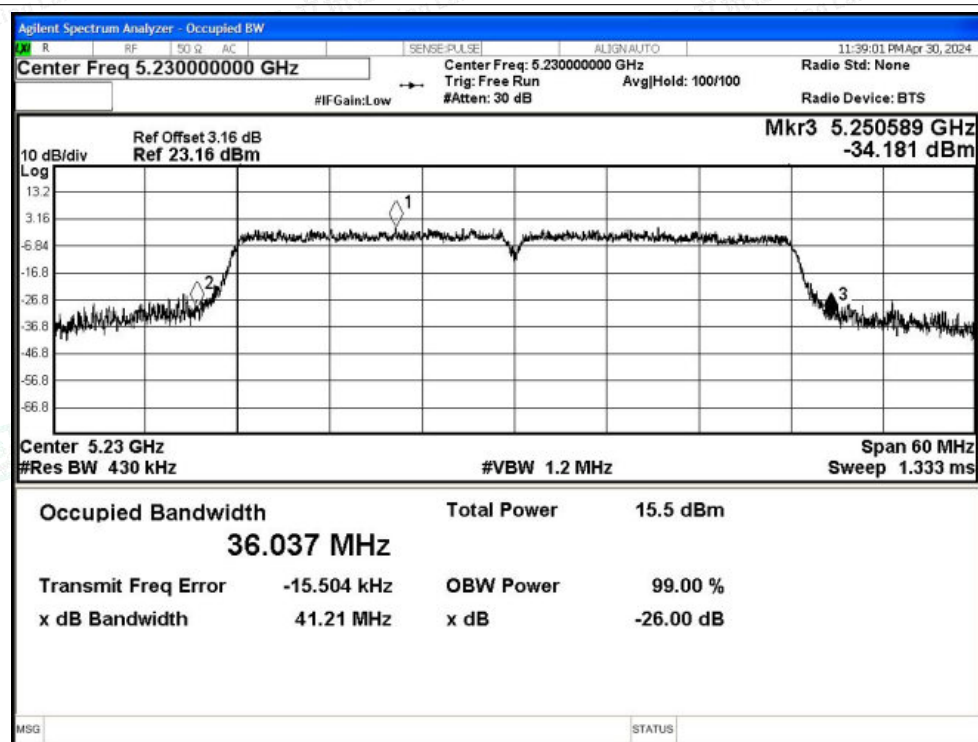


-26dB Bandwidth NVNT ac40 5190MHz Ant1

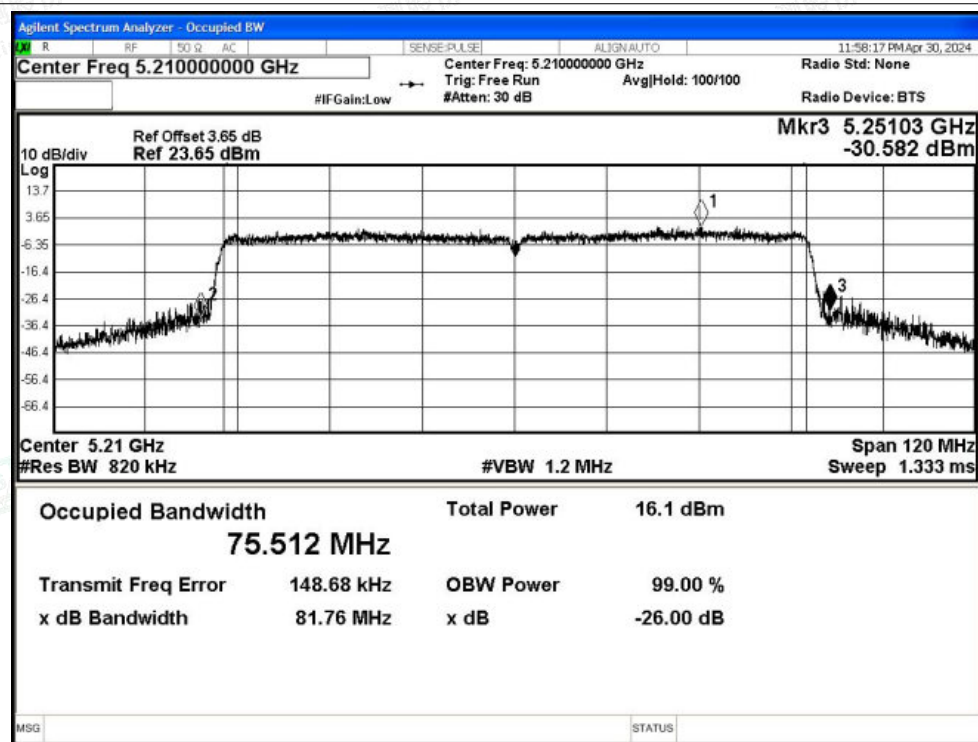




-26dB Bandwidth NVNT ac40 5230MHz Ant1

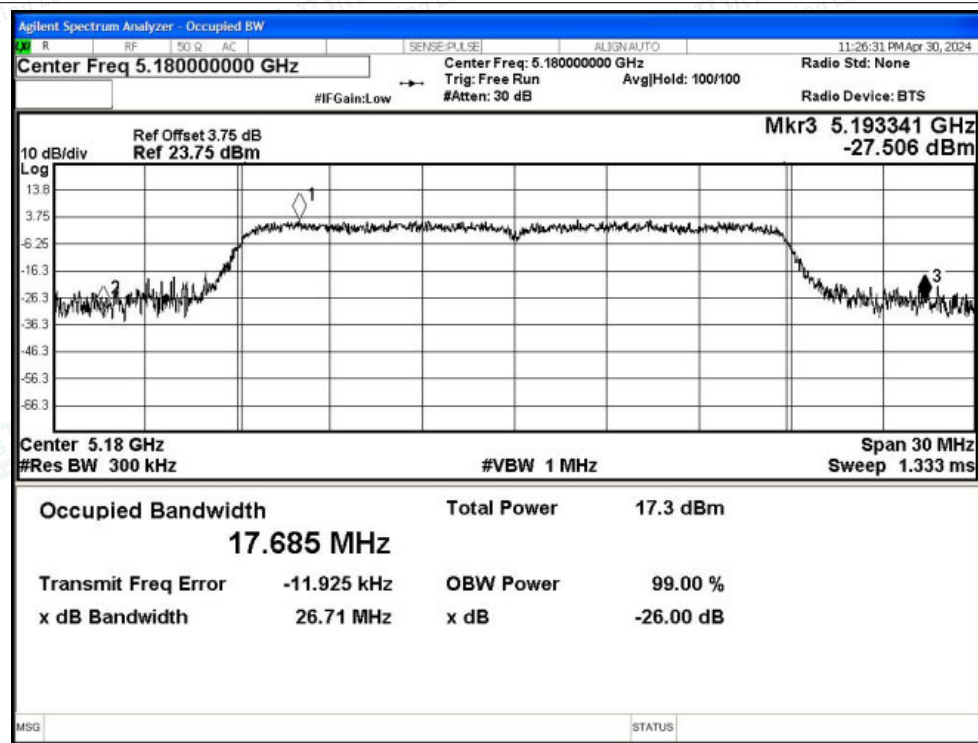


-26dB Bandwidth NVNT ac80 5210MHz Ant1

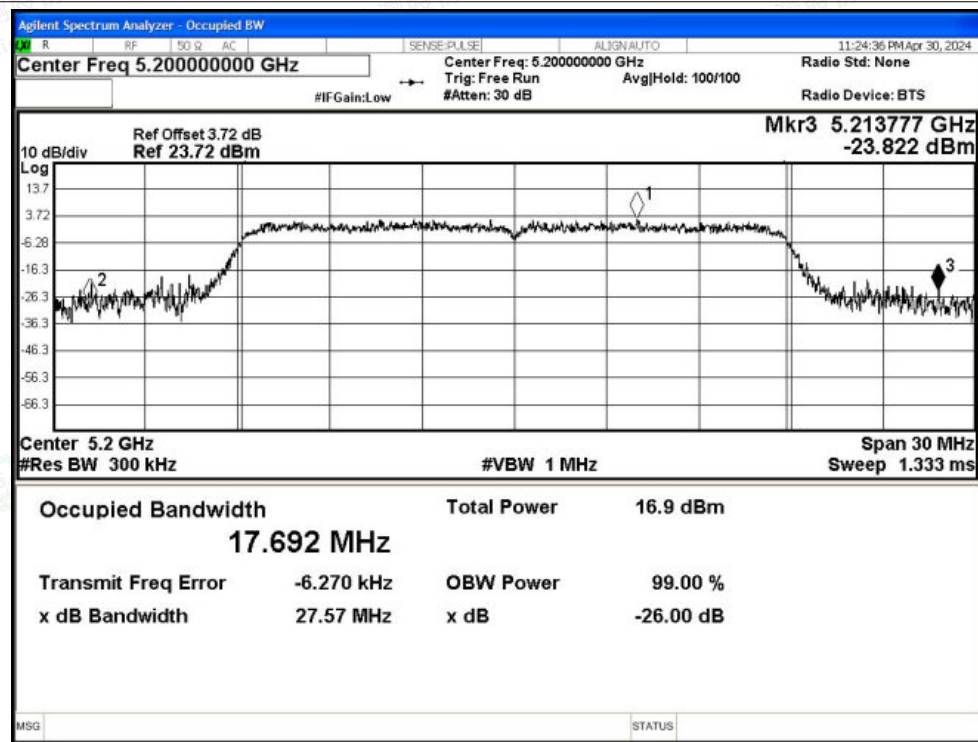




-26dB Bandwidth NVNT ax20 5180MHz Ant1

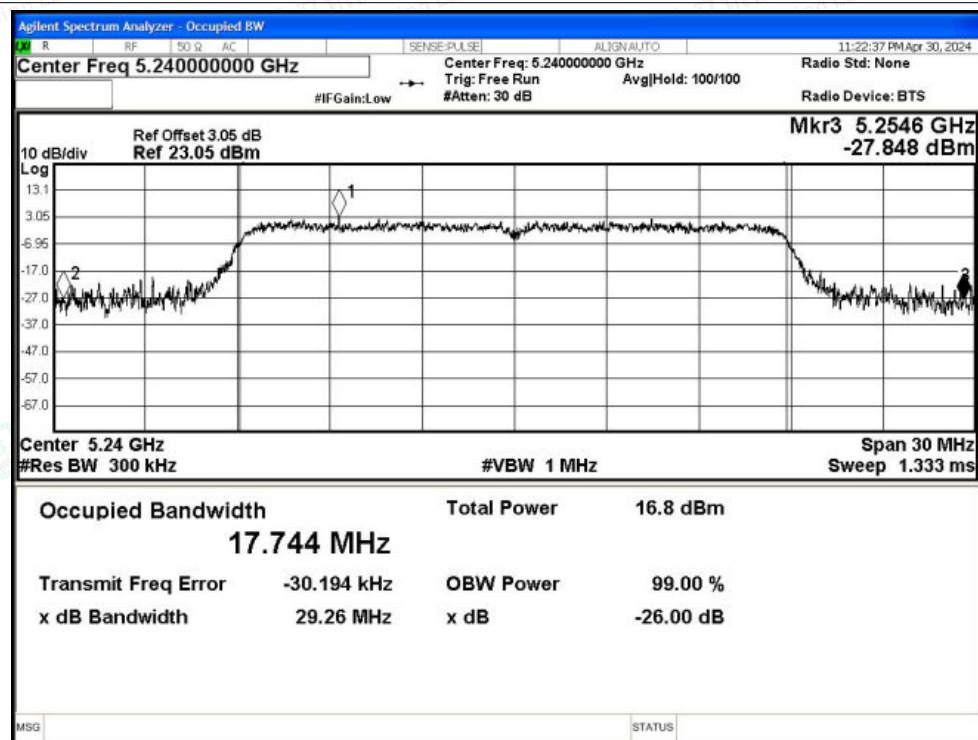


-26dB Bandwidth NVNT ax20 5200MHz Ant1

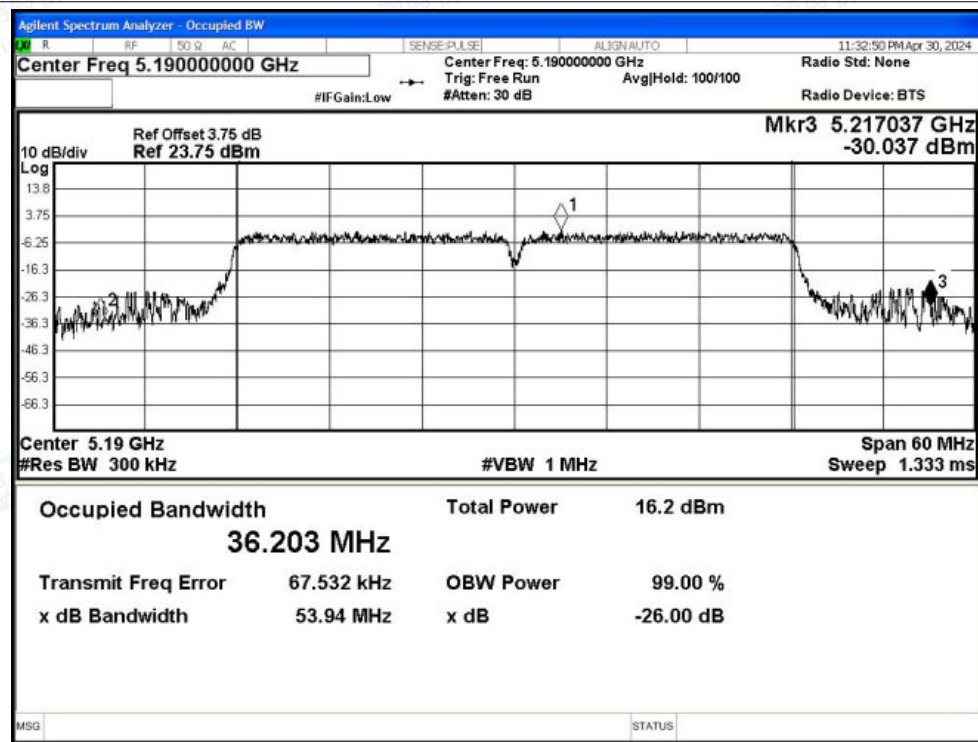




-26dB Bandwidth NVNT ax20 5240MHz Ant1

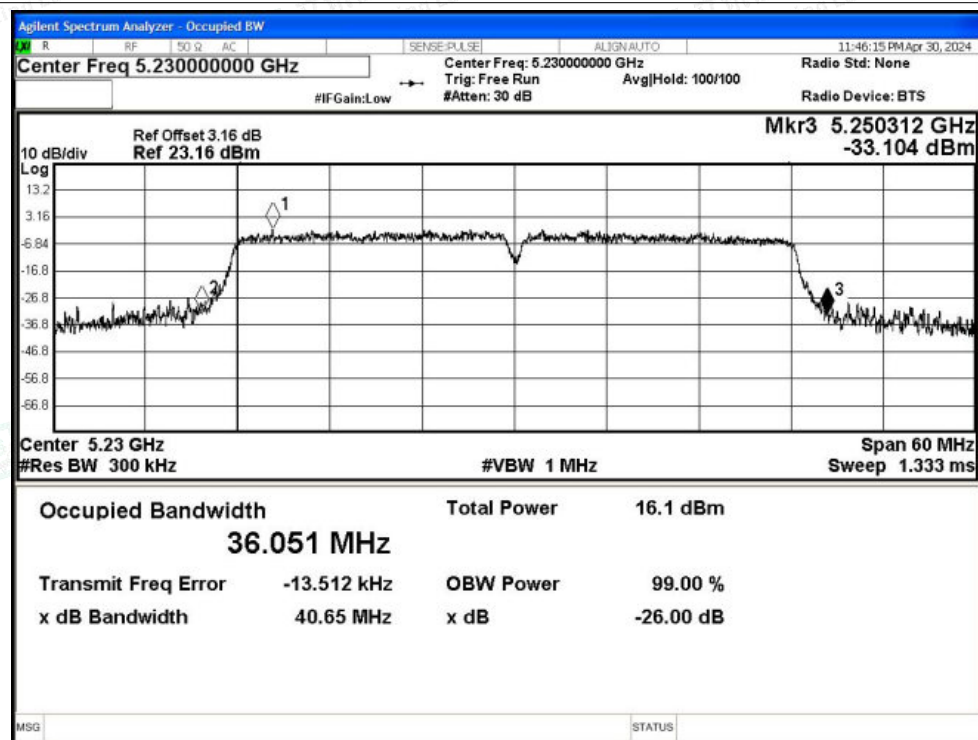


-26dB Bandwidth NVNT ax40 5190MHz Ant1

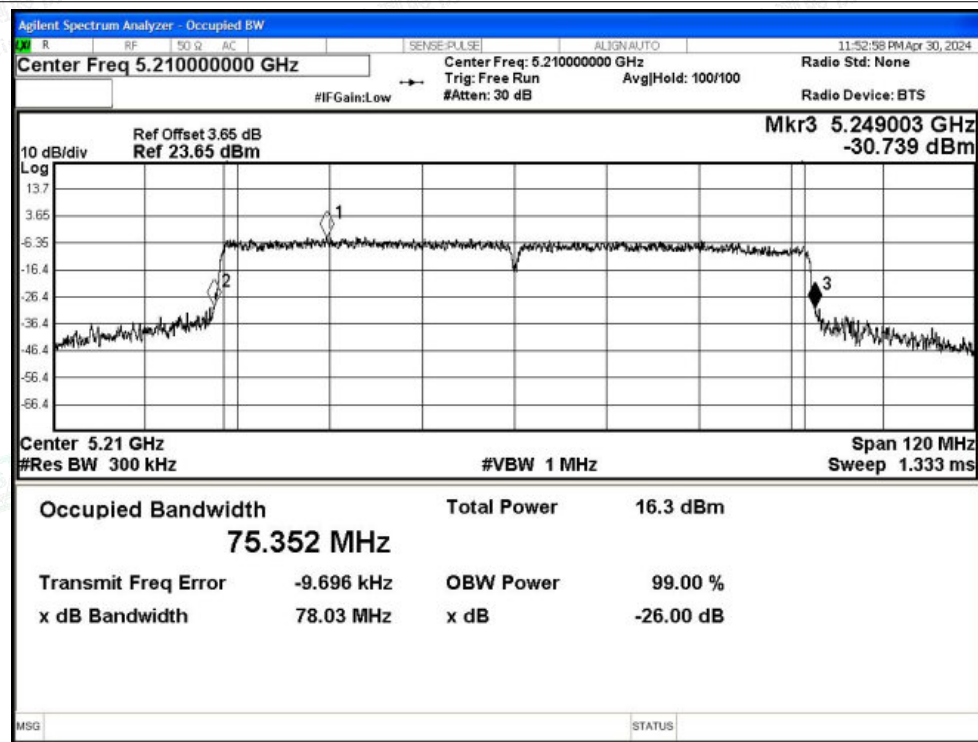




-26dB Bandwidth NVNT ax40 5230MHz Ant1



-26dB Bandwidth NVNT ax80 5210MHz Ant1





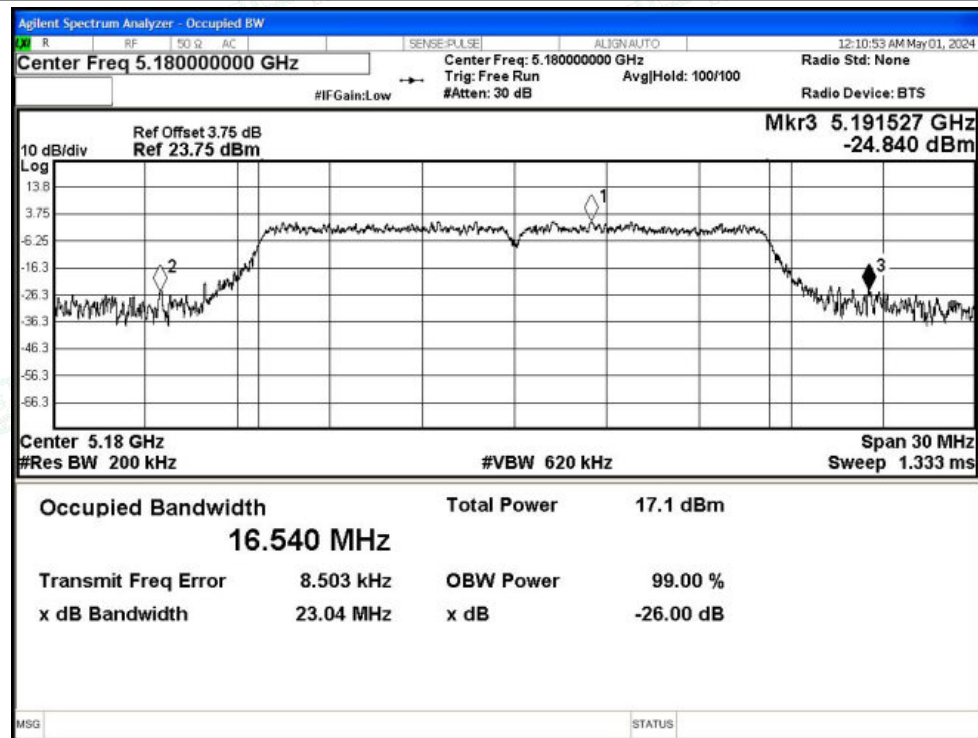
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant2	23.036	---	Pass
NVNT	a	5200	Ant2	22.188	---	Pass
NVNT	a	5240	Ant2	25.508	---	Pass
NVNT	n20	5180	Ant2	24.638	---	Pass
NVNT	n20	5200	Ant2	24.721	---	Pass
NVNT	n20	5240	Ant2	24.394	---	Pass
NVNT	n40	5190	Ant2	39.821	---	Pass
NVNT	n40	5230	Ant2	42.871	---	Pass
NVNT	ac20	5180	Ant2	24.981	---	Pass
NVNT	ac20	5200	Ant2	23.783	---	Pass
NVNT	ac20	5240	Ant2	27.258	---	Pass
NVNT	ac40	5190	Ant2	52.551	---	Pass
NVNT	ac40	5230	Ant2	40.258	---	Pass
NVNT	ac80	5210	Ant2	78.953	---	Pass
NVNT	ax20	5180	Ant2	28.671	---	Pass
NVNT	ax20	5200	Ant2	29.231	---	Pass
NVNT	ax20	5240	Ant2	28.46	---	Pass
NVNT	ax40	5190	Ant2	42.562	---	Pass
NVNT	ax40	5230	Ant2	40.984	---	Pass
NVNT	ax80	5210	Ant2	79.154	---	Pass



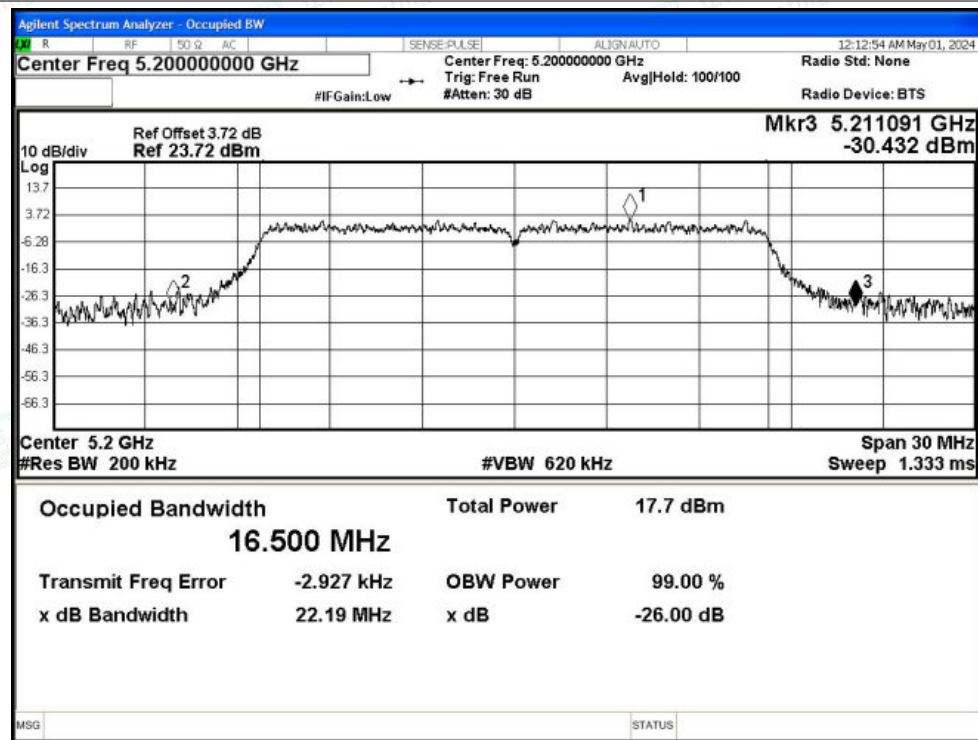


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant2



-26dB Bandwidth NVNT a 5200MHz Ant2

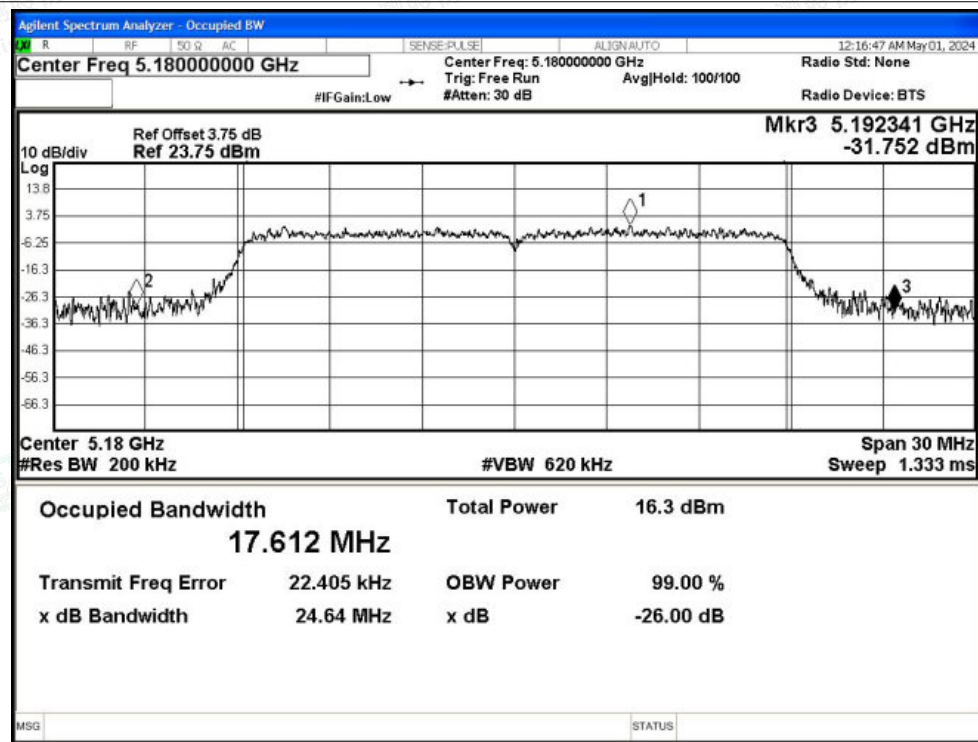




-26dB Bandwidth NVNT a 5240MHz Ant2

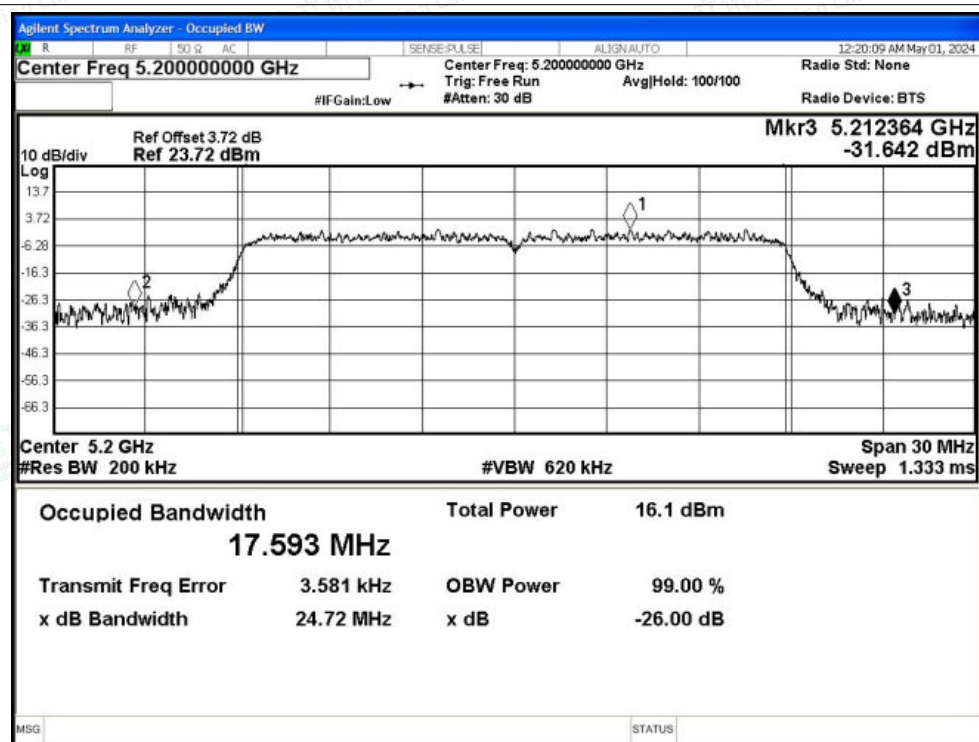


-26dB Bandwidth NVNT n20 5180MHz Ant2

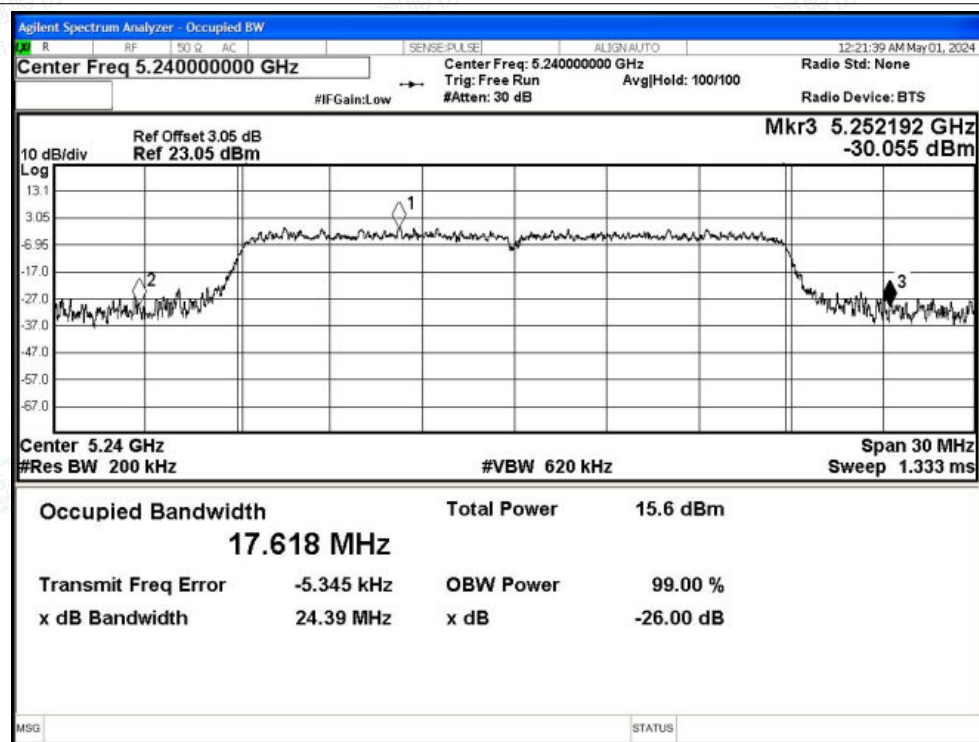




-26dB Bandwidth NVNT n20 5200MHz Ant2

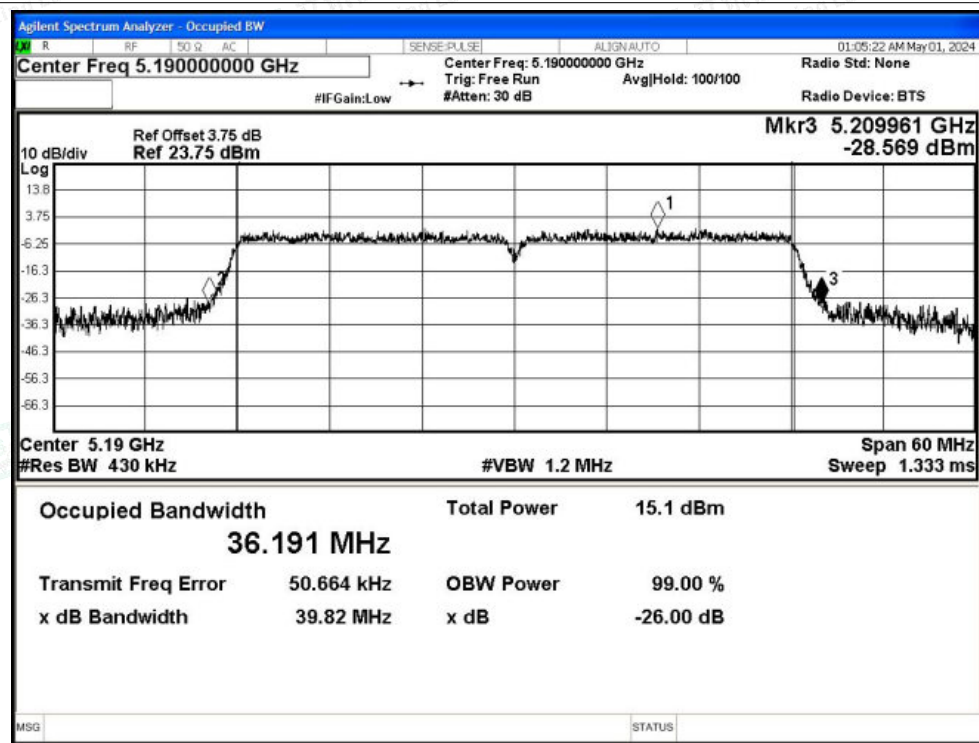


-26dB Bandwidth NVNT n20 5240MHz Ant2

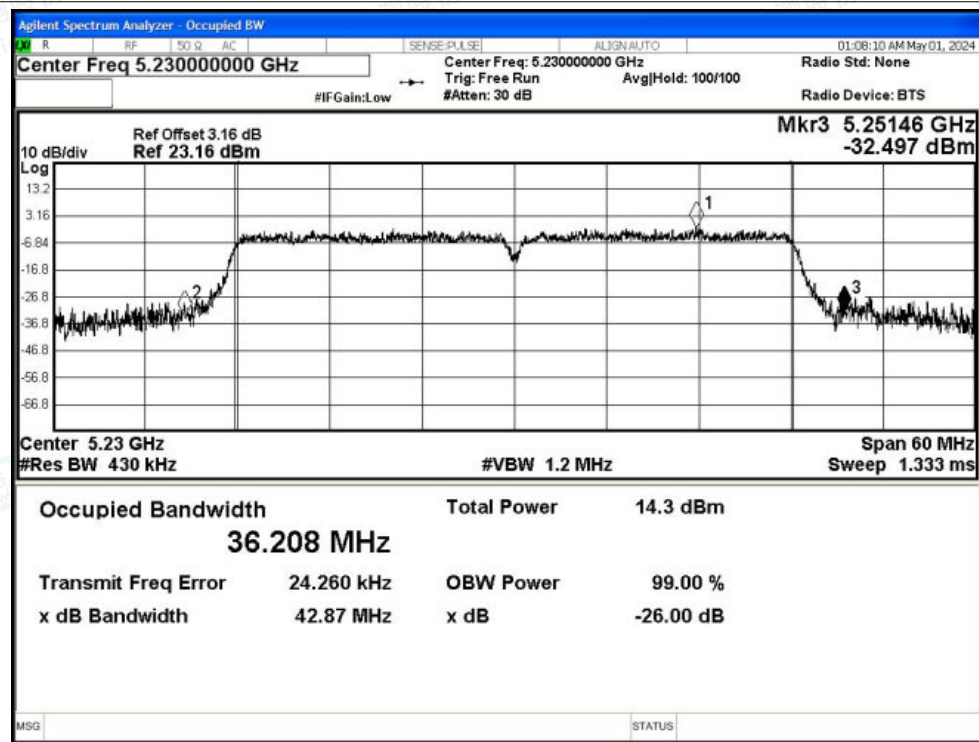




-26dB Bandwidth NVNT n40 5190MHz Ant2

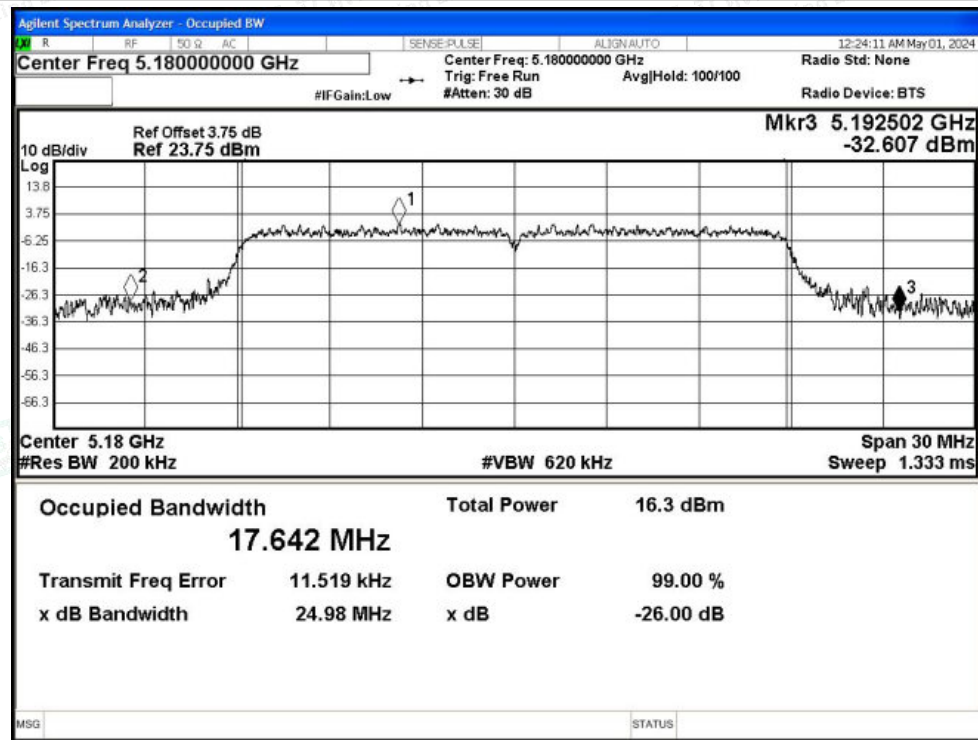


-26dB Bandwidth NVNT n40 5230MHz Ant2

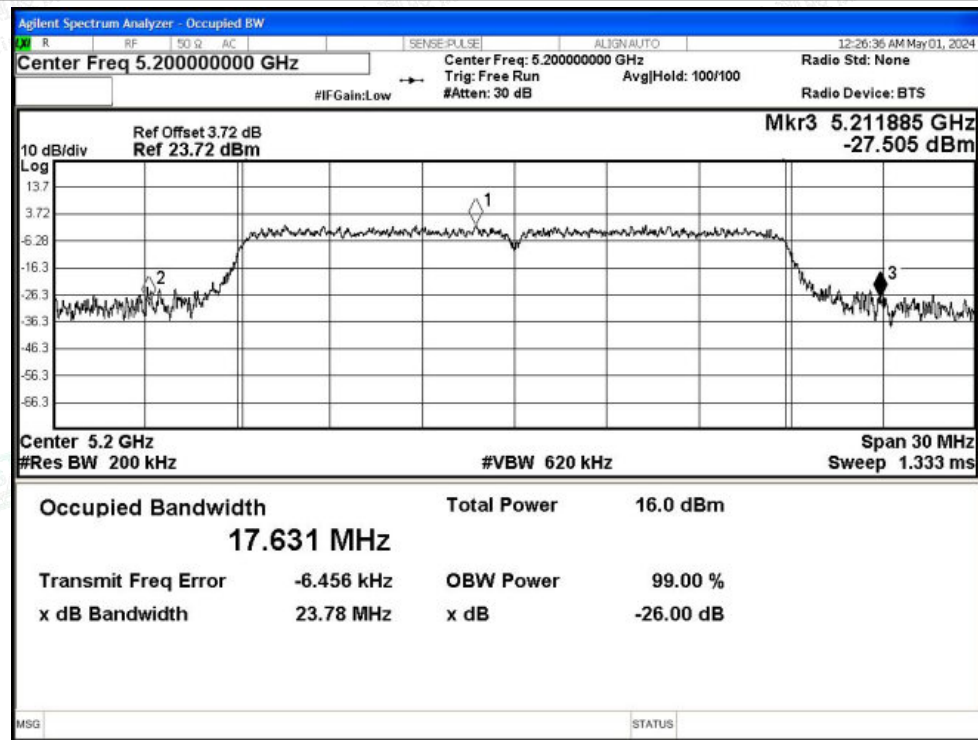




-26dB Bandwidth NVNT ac20 5180MHz Ant2



-26dB Bandwidth NVNT ac20 5200MHz Ant2

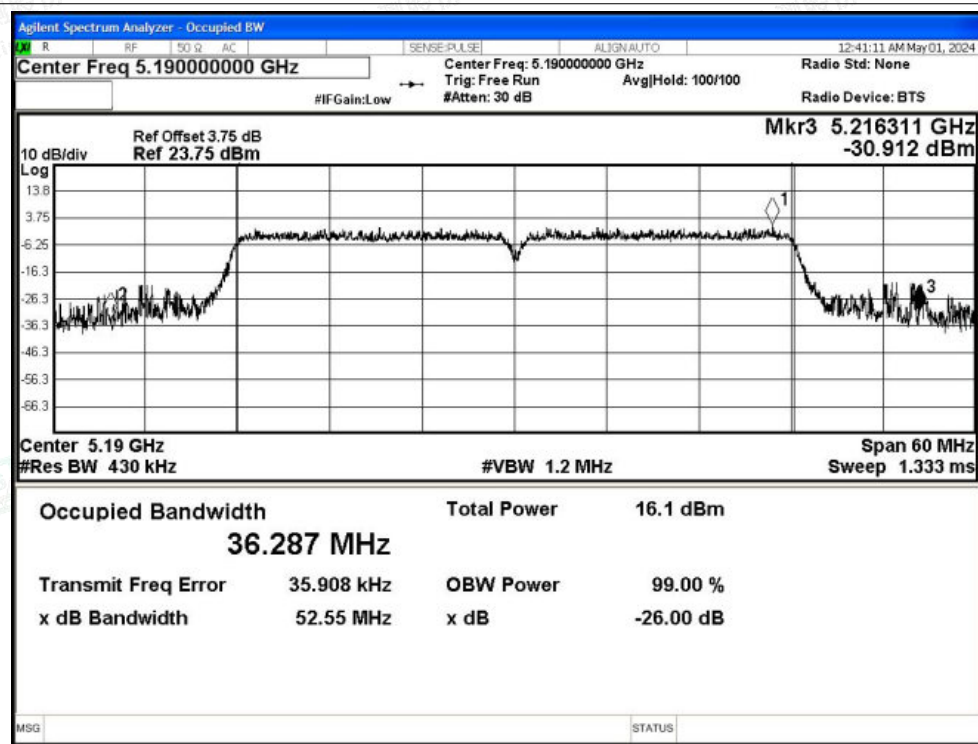




-26dB Bandwidth NVNT ac20 5240MHz Ant2

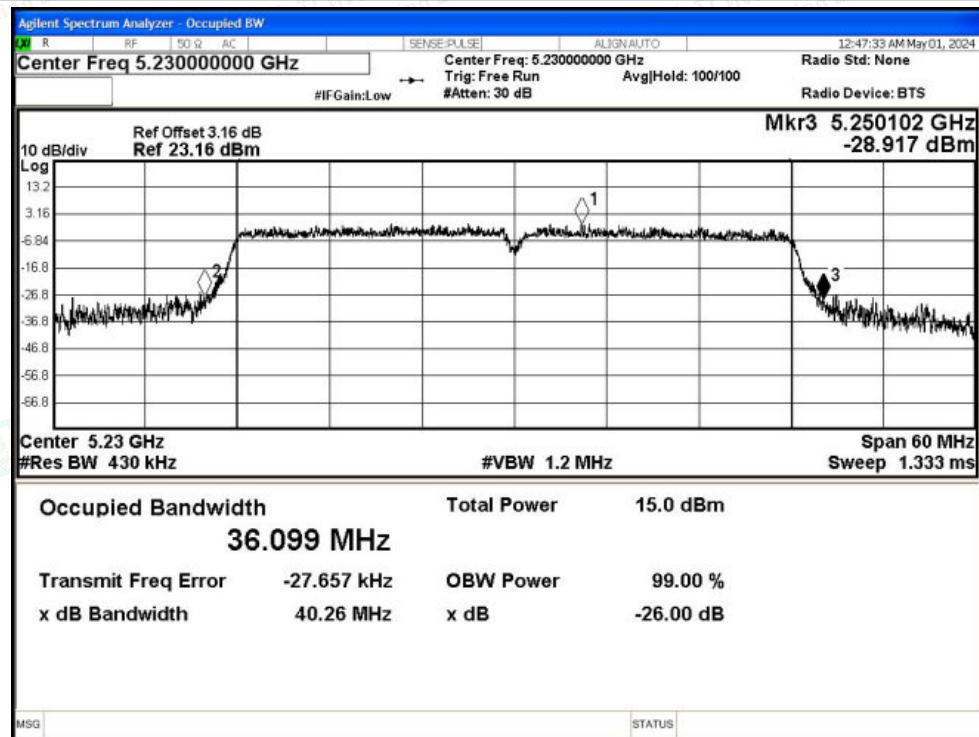


-26dB Bandwidth NVNT ac40 5190MHz Ant2

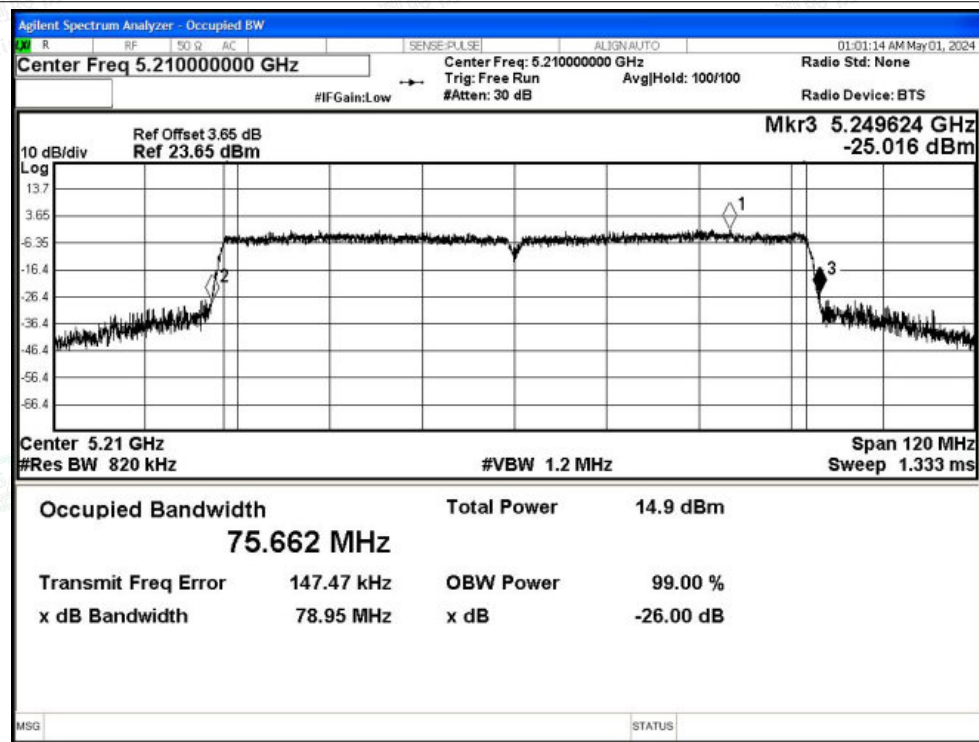




-26dB Bandwidth NVNT ac40 5230MHz Ant2

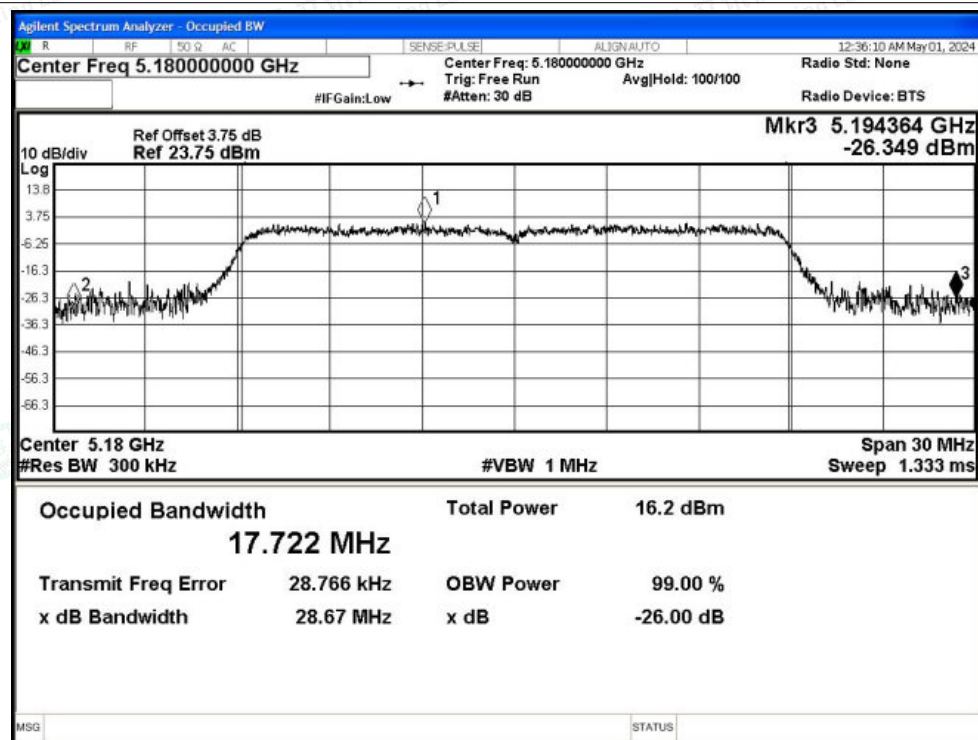


-26dB Bandwidth NVNT ac80 5210MHz Ant2

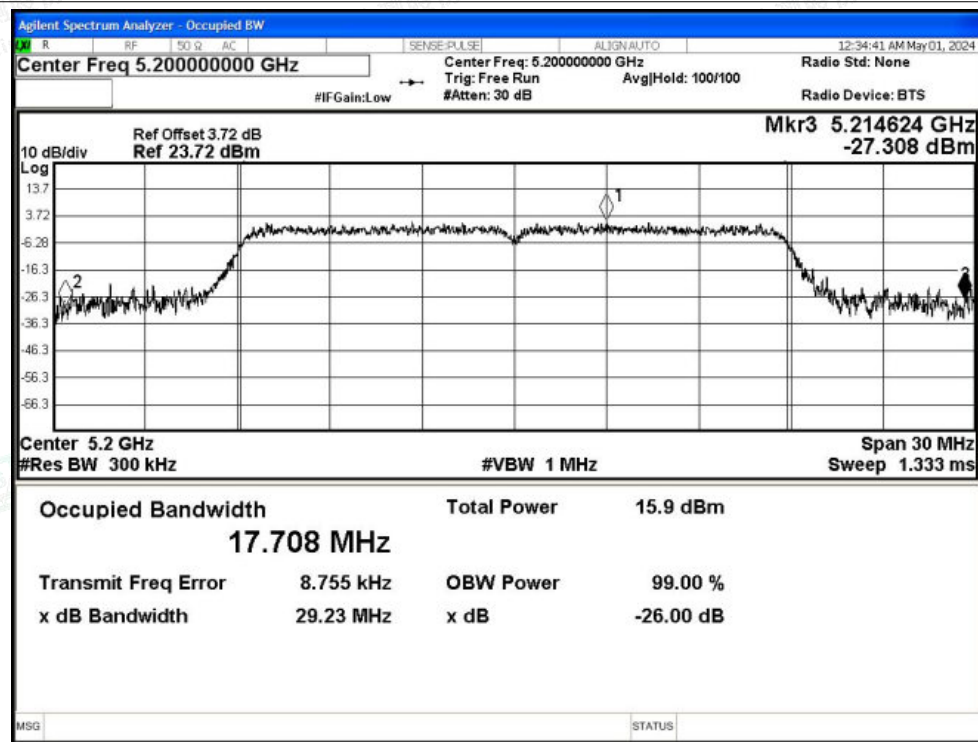




-26dB Bandwidth NVNT ax20 5180MHz Ant2



-26dB Bandwidth NVNT ax20 5200MHz Ant2

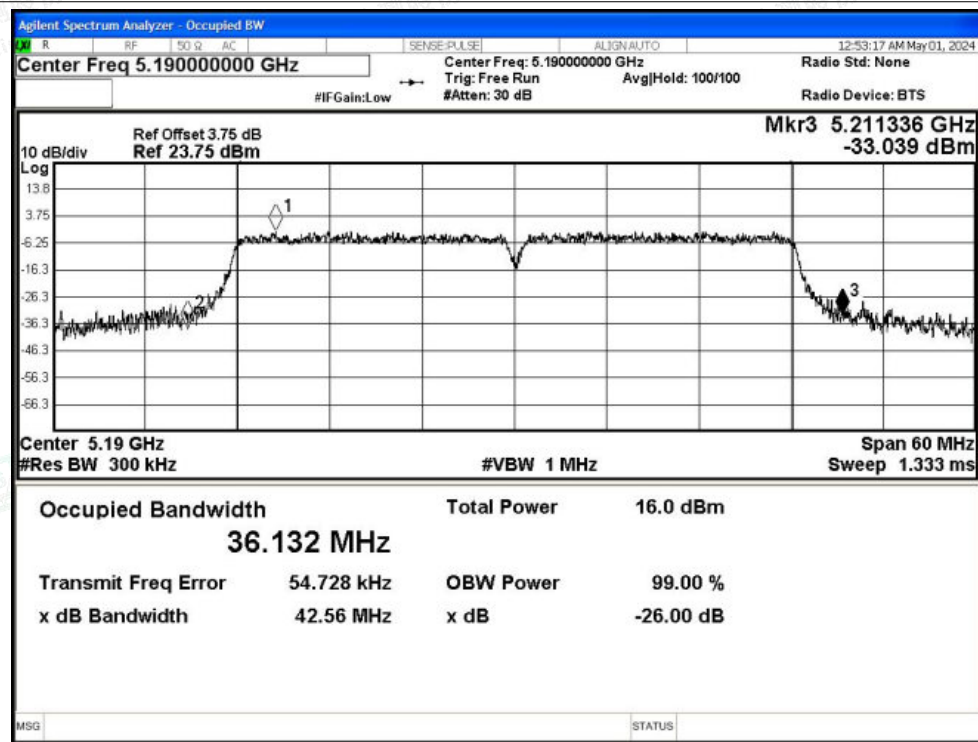




-26dB Bandwidth NVNT ax20 5240MHz Ant2

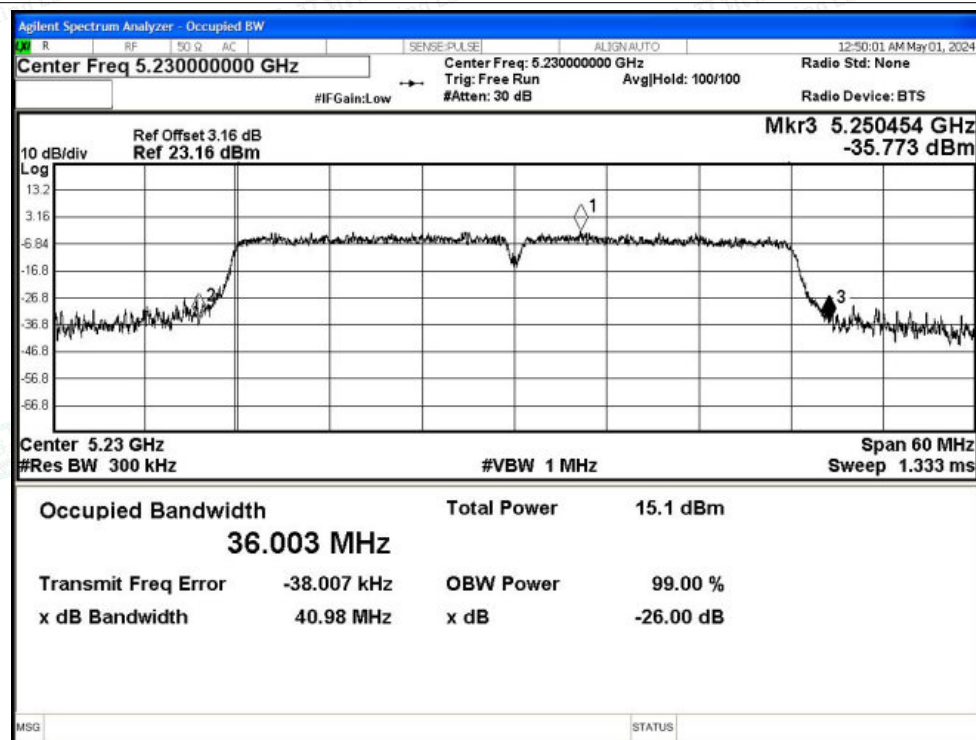


-26dB Bandwidth NVNT ax40 5190MHz Ant2

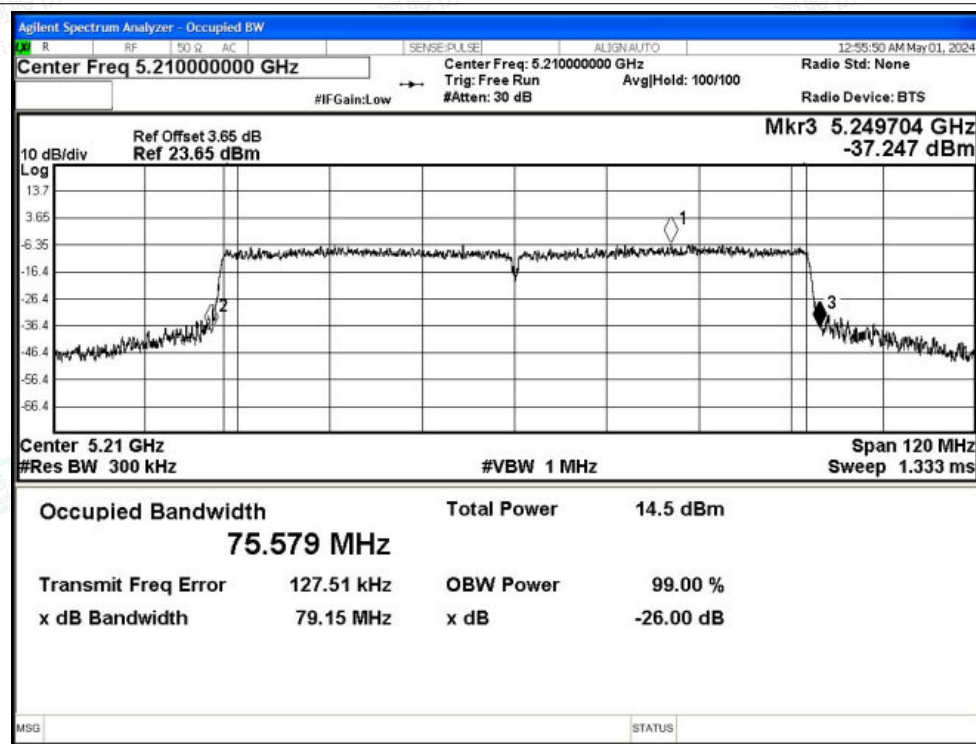




-26dB Bandwidth NVNT ax40 5230MHz Ant2



-26dB Bandwidth NVNT ax80 5210MHz Ant2





B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.34	0.24	12.58	30	Pass
NVNT	a	5200	Ant1	12.88	0.24	13.12	30	Pass
NVNT	a	5240	Ant1	11.77	0.24	12.01	30	Pass
NVNT	n20	5180	Ant1	11.51	0.28	11.79	30	Pass
NVNT	n20	5200	Ant1	11.23	0.28	11.51	30	Pass
NVNT	n20	5240	Ant1	11.07	0.28	11.35	30	Pass
NVNT	n40	5190	Ant1	10.39	0.12	10.51	30	Pass
NVNT	n40	5230	Ant1	10.17	0.12	10.29	30	Pass
NVNT	ac20	5180	Ant1	11.61	0.28	11.89	30	Pass
NVNT	ac20	5200	Ant1	11.43	0.28	11.71	30	Pass
NVNT	ac20	5240	Ant1	11.02	0.28	11.3	30	Pass
NVNT	ac40	5190	Ant1	10.46	0.12	10.58	30	Pass
NVNT	ac40	5230	Ant1	10.28	0.12	10.4	30	Pass
NVNT	ac80	5210	Ant1	9.42	0.25	9.67	30	Pass
NVNT	ax20	5180	Ant1	11.51	0.28	11.79	30	Pass
NVNT	ax20	5200	Ant1	11.29	0.28	11.57	30	Pass
NVNT	ax20	5240	Ant1	11.07	0.28	11.35	30	Pass
NVNT	ax40	5190	Ant1	10.08	0.12	10.2	30	Pass
NVNT	ax40	5230	Ant1	10.17	0.12	10.29	30	Pass
NVNT	ax80	5210	Ant1	9.42	0.25	9.67	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant2	11.2	0.24	11.44	30	Pass
NVNT	a	5200	Ant2	11.94	0.24	12.18	30	Pass
NVNT	a	5240	Ant2	10.59	0.24	10.83	30	Pass
NVNT	n20	5180	Ant2	10.63	0.28	10.91	30	Pass
NVNT	n20	5200	Ant2	10.35	0.28	10.63	30	Pass
NVNT	n20	5240	Ant2	10.91	0.28	11.19	30	Pass
NVNT	n40	5190	Ant2	9.29	0.12	9.41	30	Pass
NVNT	n40	5230	Ant2	9.13	0.12	9.25	30	Pass
NVNT	ac20	5180	Ant2	10.53	0.28	10.81	30	Pass
NVNT	ac20	5200	Ant2	10.39	0.28	10.67	30	Pass
NVNT	ac20	5240	Ant2	10.01	0.28	10.29	30	Pass
NVNT	ac40	5190	Ant2	9.24	0.53	9.77	30	Pass
NVNT	ac40	5230	Ant2	9.16	0.12	9.28	30	Pass
NVNT	ac80	5210	Ant2	8.54	0.25	8.79	30	Pass





NVNT	ax20	5180	Ant2	10.46	0.28	10.74	30	Pass
NVNT	ax20	5200	Ant2	10.28	0.28	10.56	30	Pass
NVNT	ax20	5240	Ant2	10.99	0.28	11.27	30	Pass
NVNT	ax40	5190	Ant2	9.47	0.12	9.59	30	Pass
NVNT	ax40	5230	Ant2	9.19	0.12	9.31	30	Pass
NVNT	ax80	5210	Ant2	8.44	0.25	8.69	30	Pass

MIMO

Condition	Mode	Frequency (MHz)	Antenna		Total Power (dBm)	Limit (dBm)	Verdict
			Ant0	Ant1			
NVNT	n20	5180	11.79	10.91	14.38	28.85	Pass
NVNT	n20	5200	11.51	10.63	14.10	28.85	Pass
NVNT	n20	5240	11.35	11.19	14.28	28.85	Pass
NVNT	n40	5190	10.51	9.41	13.01	28.85	Pass
NVNT	n40	5230	10.29	9.25	12.81	28.85	Pass
NVNT	ac20	5180	11.89	10.81	14.39	28.85	Pass
NVNT	ac20	5200	11.71	10.67	14.23	28.85	Pass
NVNT	ac20	5240	11.3	10.29	13.83	28.85	Pass
NVNT	ac40	5190	10.58	9.77	13.20	28.85	Pass
NVNT	ac40	5230	10.4	9.28	12.89	28.85	Pass
NVNT	ac80	5210	9.67	8.79	12.26	28.85	Pass
NVNT	ax20	5180	11.79	10.74	14.31	28.85	Pass
NVNT	ax20	5200	11.57	10.56	14.10	28.85	Pass
NVNT	ax20	5240	11.35	11.27	14.32	28.85	Pass
NVNT	ax40	5190	10.2	9.59	12.92	28.85	Pass
NVNT	ax40	5230	10.29	9.31	12.84	28.85	Pass
NVNT	ax80	5210	9.67	8.69	12.22	28.85	Pass





B.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.82	0.24	2.06	17	Pass
NVNT	a	5200	Ant1	2.27	0.24	2.51	17	Pass
NVNT	a	5240	Ant1	0.82	0.24	1.06	17	Pass
NVNT	n20	5180	Ant1	0.87	0.28	1.15	17	Pass
NVNT	n20	5200	Ant1	1.64	0.28	1.92	17	Pass
NVNT	n20	5240	Ant1	0.01	0.28	0.29	17	Pass
NVNT	n40	5190	Ant1	-3.46	0.12	-3.34	17	Pass
NVNT	n40	5230	Ant1	-3.07	0.12	-2.95	17	Pass
NVNT	ac20	5180	Ant1	0.8	0.28	1.08	17	Pass
NVNT	ac20	5200	Ant1	0.81	0.28	1.09	17	Pass
NVNT	ac20	5240	Ant1	0.39	0.28	0.67	17	Pass
NVNT	ac40	5190	Ant1	-3.24	0.12	-3.12	17	Pass
NVNT	ac40	5230	Ant1	-4.21	0.12	-4.09	17	Pass
NVNT	ac80	5210	Ant1	-6.81	0.25	-6.56	17	Pass
NVNT	ax20	5180	Ant1	0.74	0.28	1.02	17	Pass
NVNT	ax20	5200	Ant1	0.5	0.28	0.78	17	Pass
NVNT	ax20	5240	Ant1	0.26	0.28	0.54	17	Pass
NVNT	ax40	5190	Ant1	-3.31	0.12	-3.19	17	Pass
NVNT	ax40	5230	Ant1	-3.4	0.12	-3.28	17	Pass
NVNT	ax80	5210	Ant1	-5.93	0.25	-5.68	17	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant2	0.73	0.24	0.97	17	Pass
NVNT	a	5200	Ant2	1.41	0.24	1.65	17	Pass
NVNT	a	5240	Ant2	-0.19	0.24	0.05	17	Pass
NVNT	n20	5180	Ant2	0.14	0.28	0.42	17	Pass
NVNT	n20	5200	Ant2	-0.49	0.28	-0.21	17	Pass
NVNT	n20	5240	Ant2	-1.01	0.28	-0.73	17	Pass
NVNT	n40	5190	Ant2	-4.44	0.12	-4.32	17	Pass
NVNT	n40	5230	Ant2	-5.15	0.12	-5.03	17	Pass
NVNT	ac20	5180	Ant2	-0.18	0.28	0.1	17	Pass
NVNT	ac20	5200	Ant2	-0.1	0.28	0.18	17	Pass
NVNT	ac20	5240	Ant2	-0.7	0.28	-0.42	17	Pass
NVNT	ac40	5190	Ant2	-3.6	0.53	-3.07	17	Pass
NVNT	ac40	5230	Ant2	-4.61	0.12	-4.49	17	Pass
NVNT	ac80	5210	Ant2	-8.28	0.25	-8.03	17	Pass





NVNT	ax20	5180	Ant2	-0.12	0.28	0.16	17	Pass
NVNT	ax20	5200	Ant2	-0.6	0.28	-0.32	17	Pass
NVNT	ax20	5240	Ant2	-0.1	0.28	0.18	17	Pass
NVNT	ax40	5190	Ant2	-3.31	0.12	-3.19	17	Pass
NVNT	ax40	5230	Ant2	-4.24	0.12	-4.12	17	Pass
NVNT	ax80	5210	Ant2	-8.26	0.25	-8.01	17	Pass

MIMO

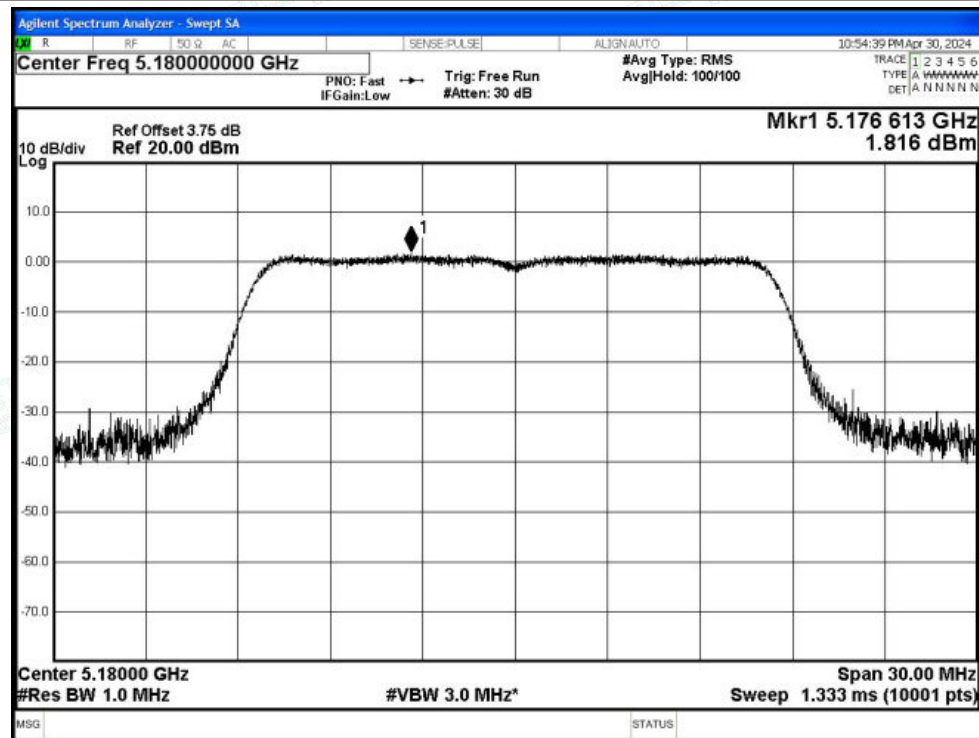
Condition	Mode	Frequency (MHz)	Conducted PSD (dBm) Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
			Ant1	Ant2			
NVNT	n20	5180	1.15	0.42	3.81	15.25	Pass
NVNT	n20	5200	1.92	-0.21	3.99	15.25	Pass
NVNT	n20	5240	0.29	-0.73	2.82	15.25	Pass
NVNT	n40	5190	-3.34	-4.32	-0.79	15.25	Pass
NVNT	n40	5230	-2.95	-5.03	-0.86	15.25	Pass
NVNT	ac20	5180	1.08	0.1	3.63	15.25	Pass
NVNT	ac20	5200	1.09	0.18	3.67	15.25	Pass
NVNT	ac20	5240	0.67	-0.42	3.17	15.25	Pass
NVNT	ac40	5190	-3.12	-3.07	-0.08	15.25	Pass
NVNT	ac40	5230	-4.09	-4.49	-1.28	15.25	Pass
NVNT	ac80	5210	-6.56	-8.03	-4.22	15.25	Pass
NVNT	ax20	5180	1.02	0.16	3.62	15.25	Pass
NVNT	ax20	5200	0.78	-0.32	3.28	15.25	Pass
NVNT	ax20	5240	0.54	0.18	3.37	15.25	Pass
NVNT	ax40	5190	-3.19	-3.19	-0.18	15.25	Pass
NVNT	ax40	5230	-3.28	-4.12	-0.67	15.25	Pass
NVNT	ax80	5210	-5.68	-8.01	-3.68	15.25	Pass



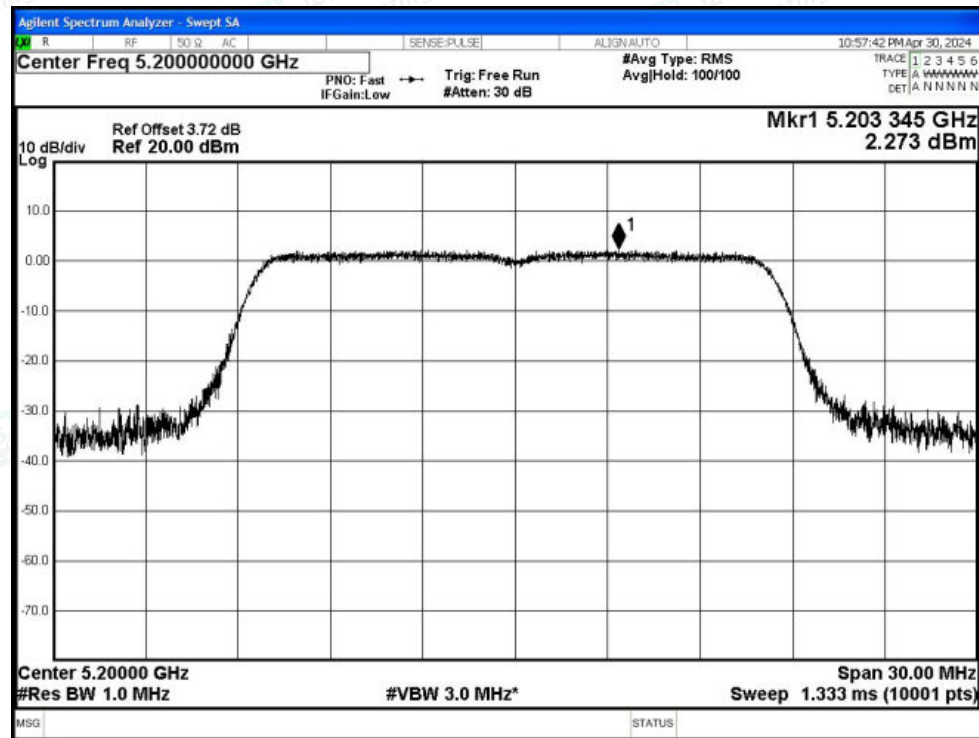


Test Graphs

PSD NVNT a 5180MHz Ant1

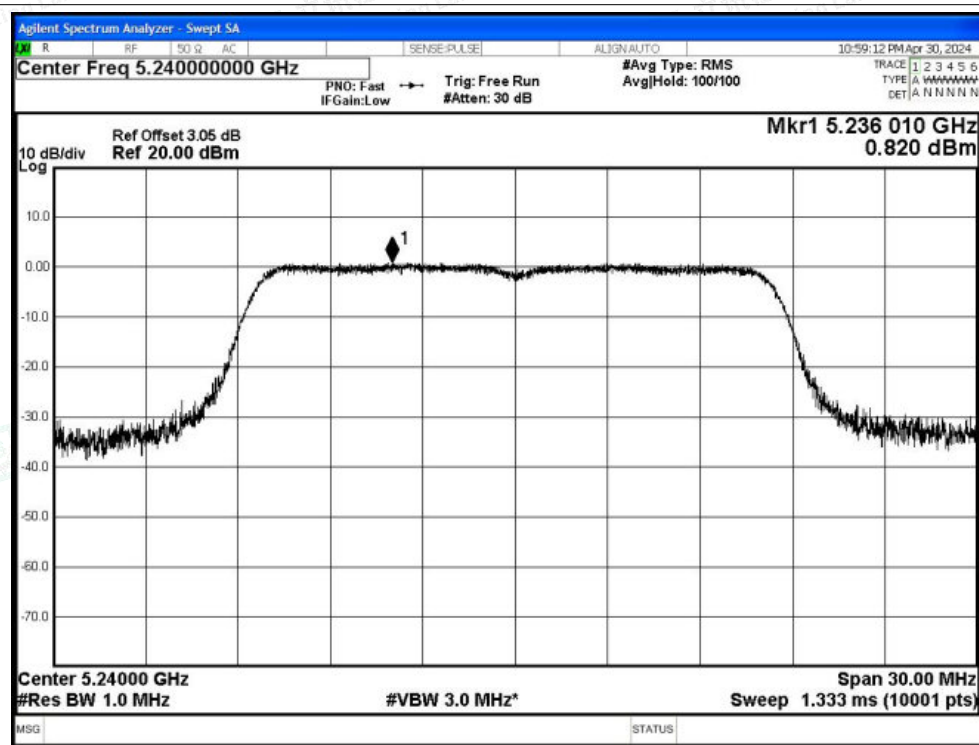


PSD NVNT a 5200MHz Ant1

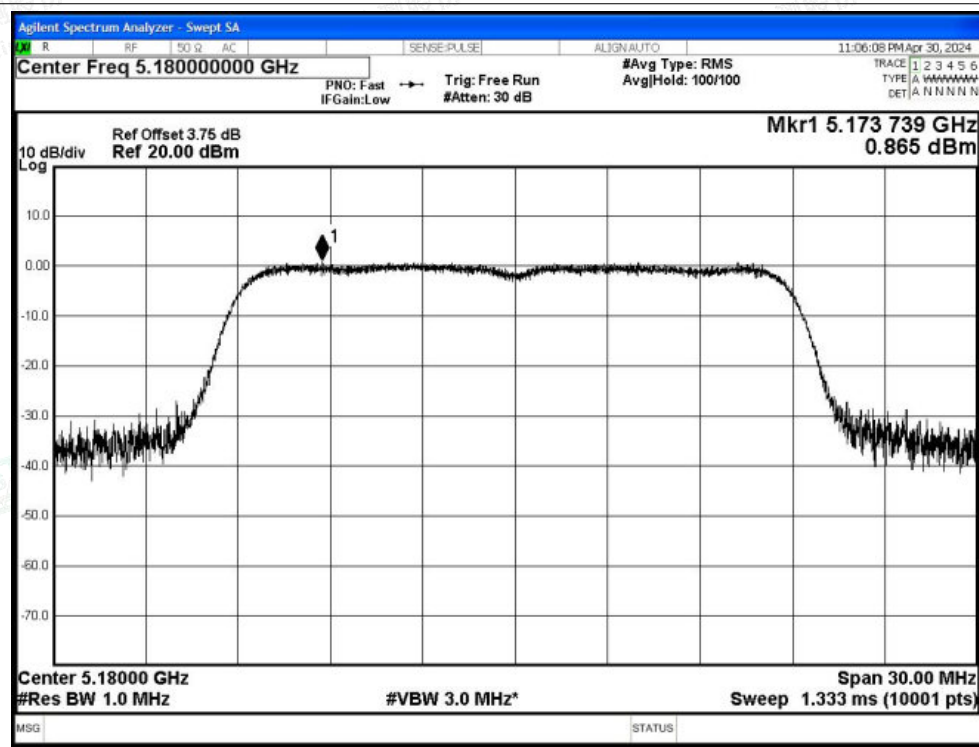


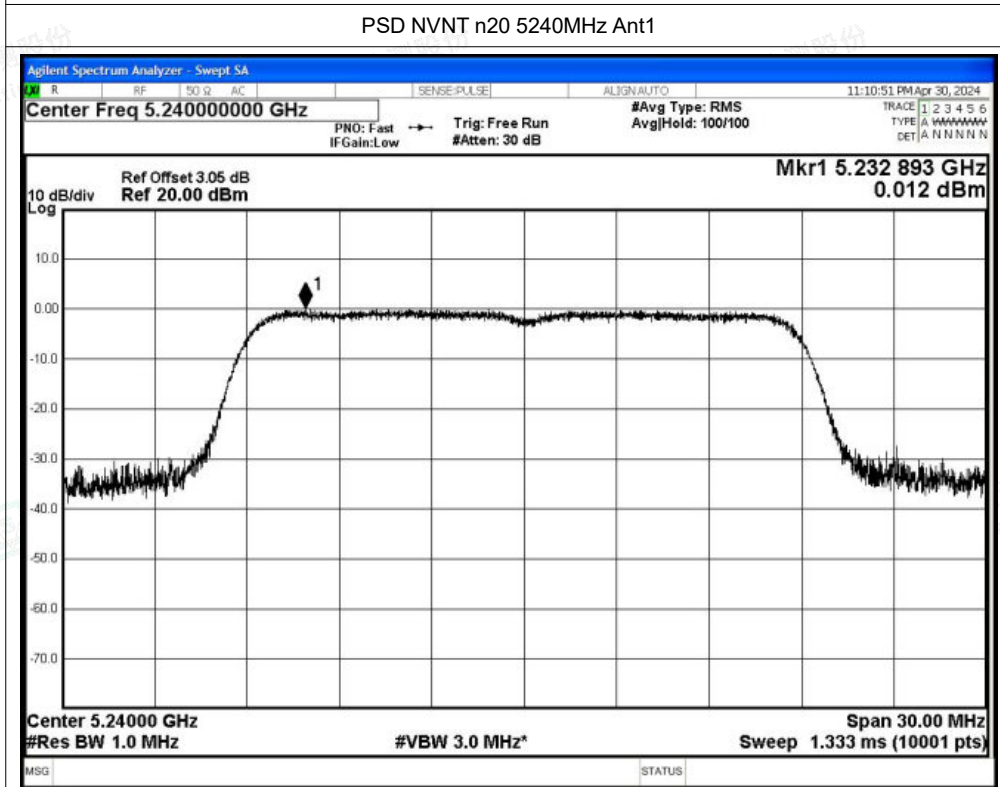
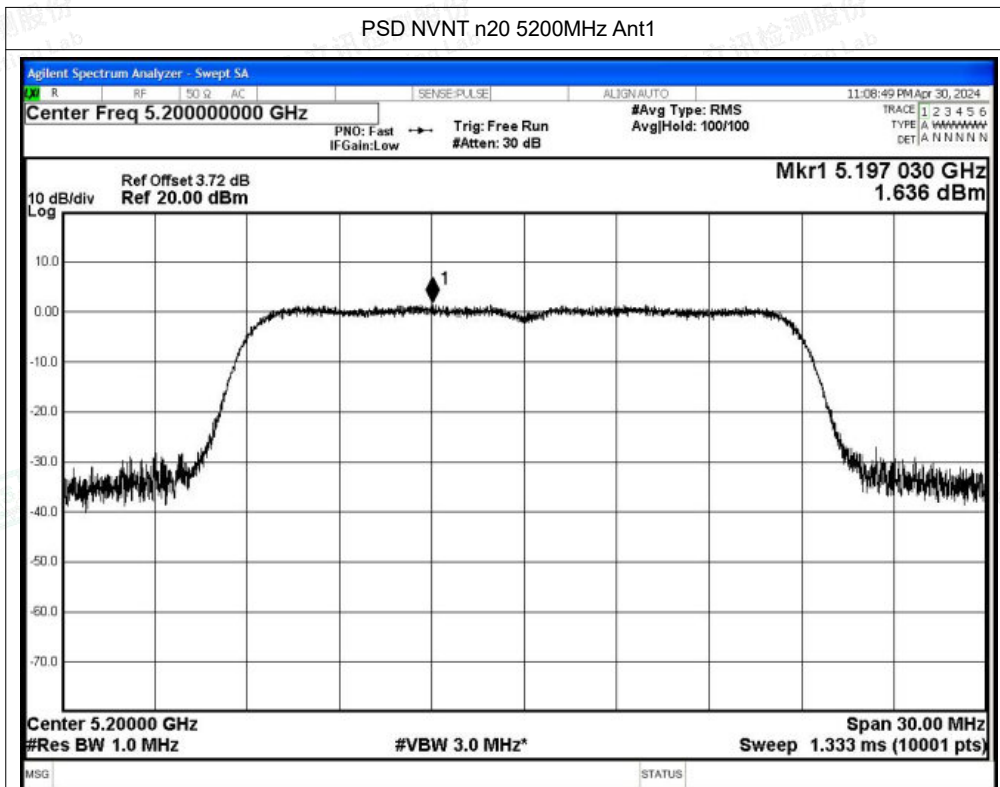


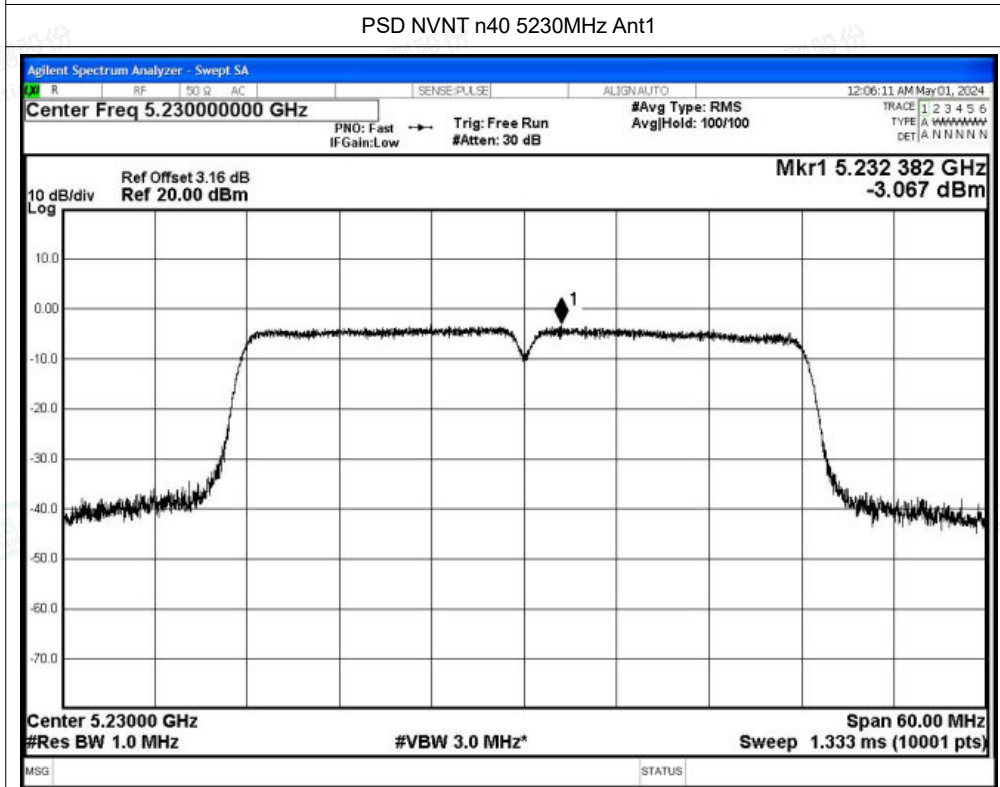
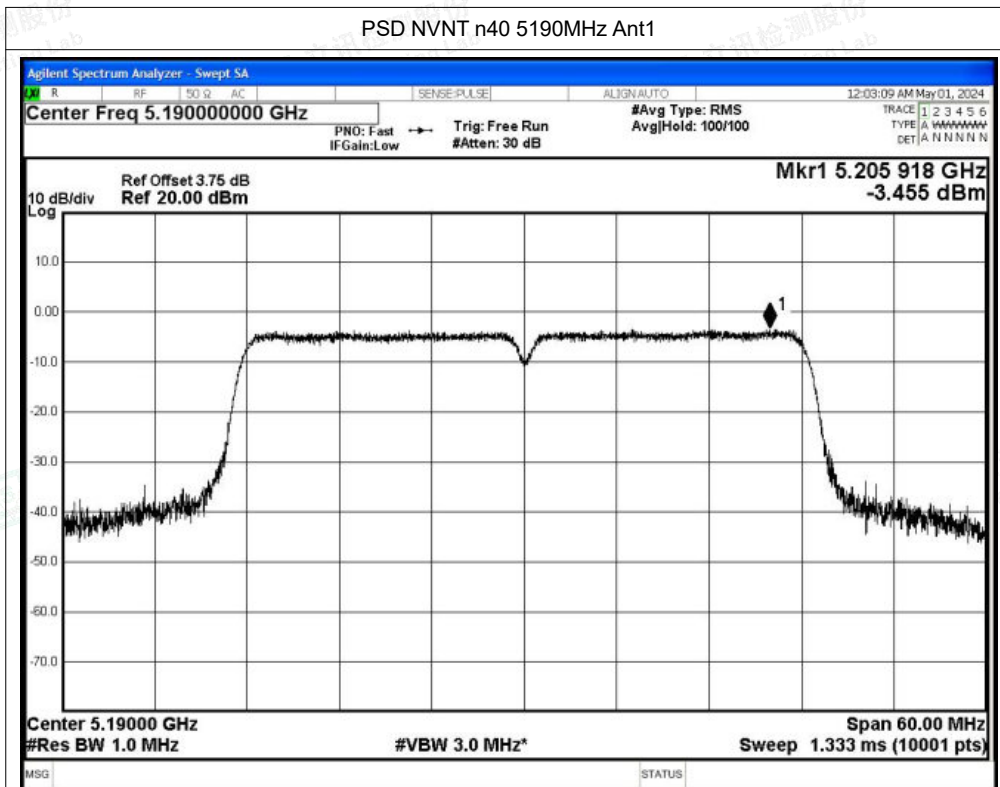
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

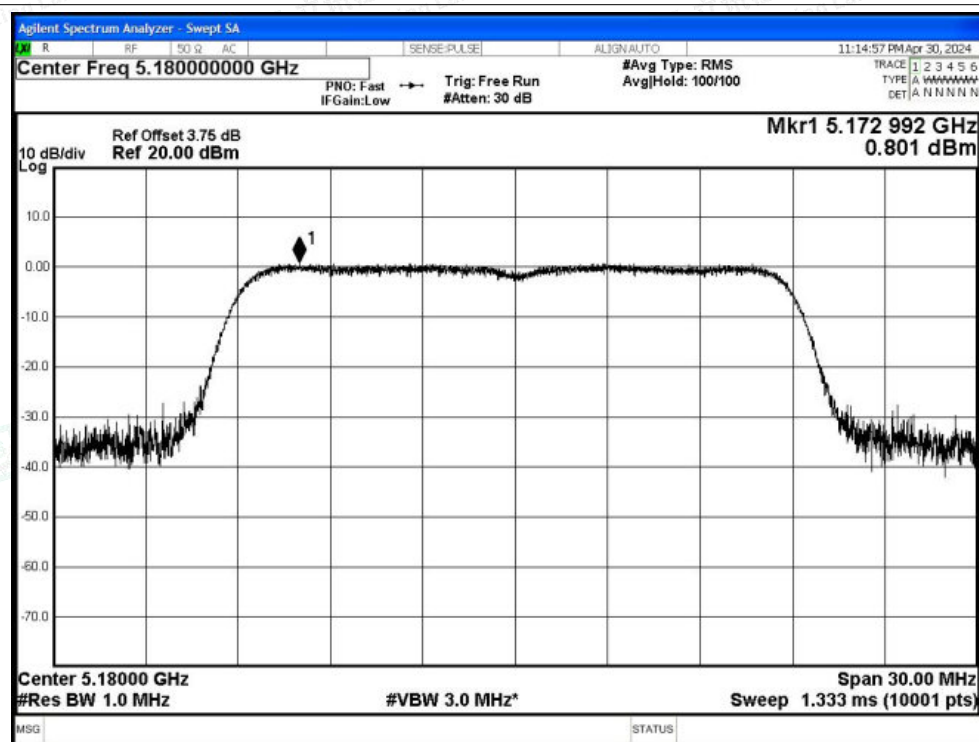




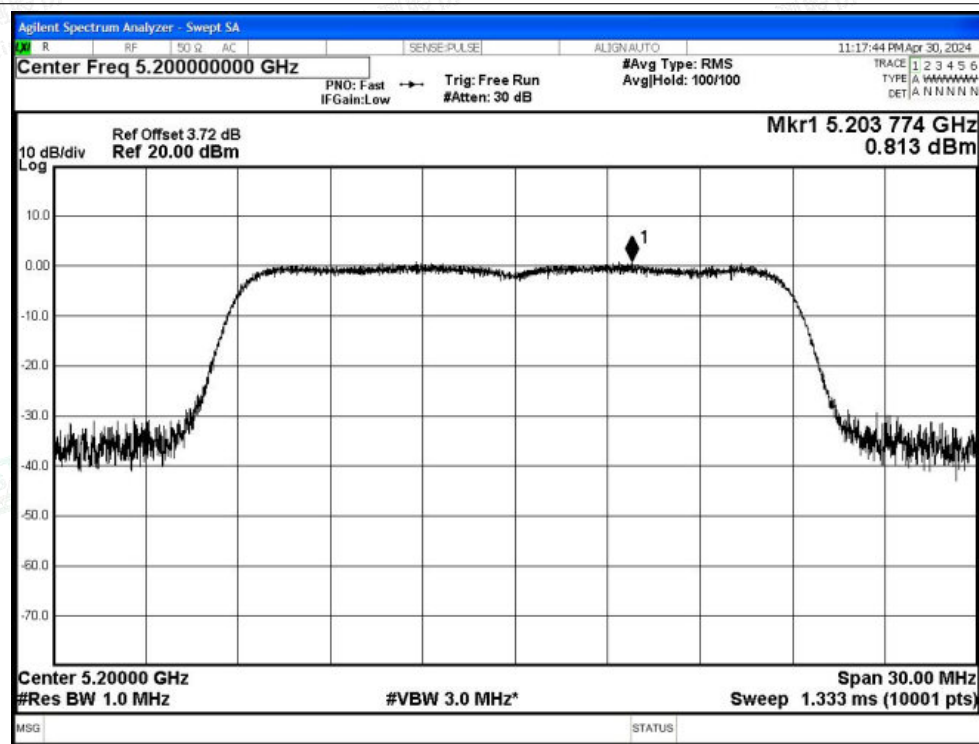




PSD NVNT ac20 5180MHz Ant1

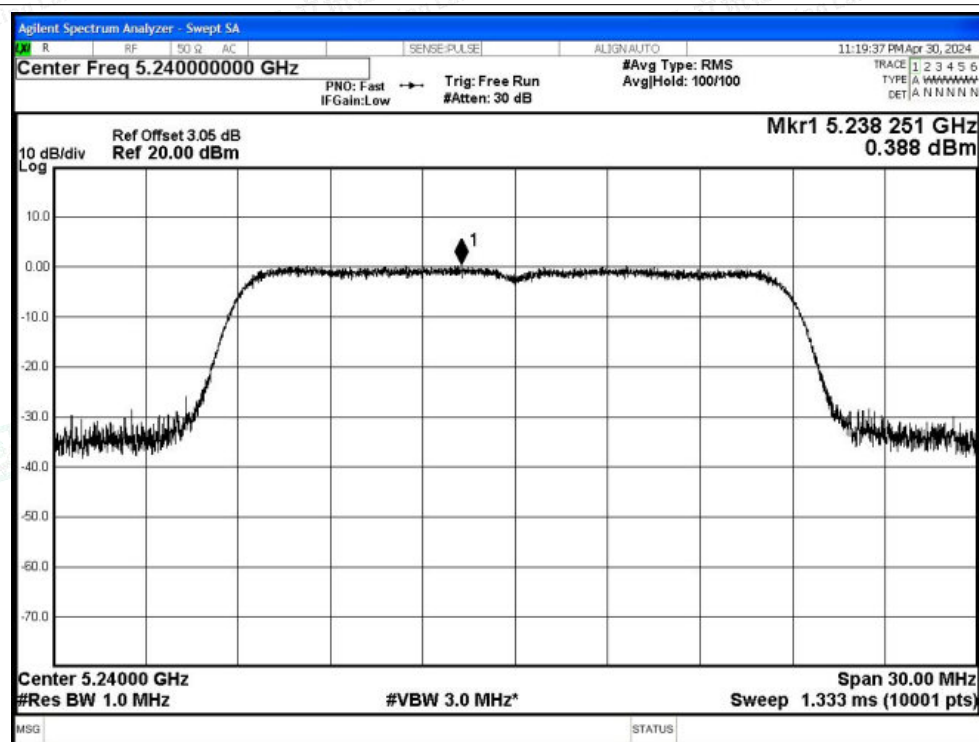


PSD NVNT ac20 5200MHz Ant1

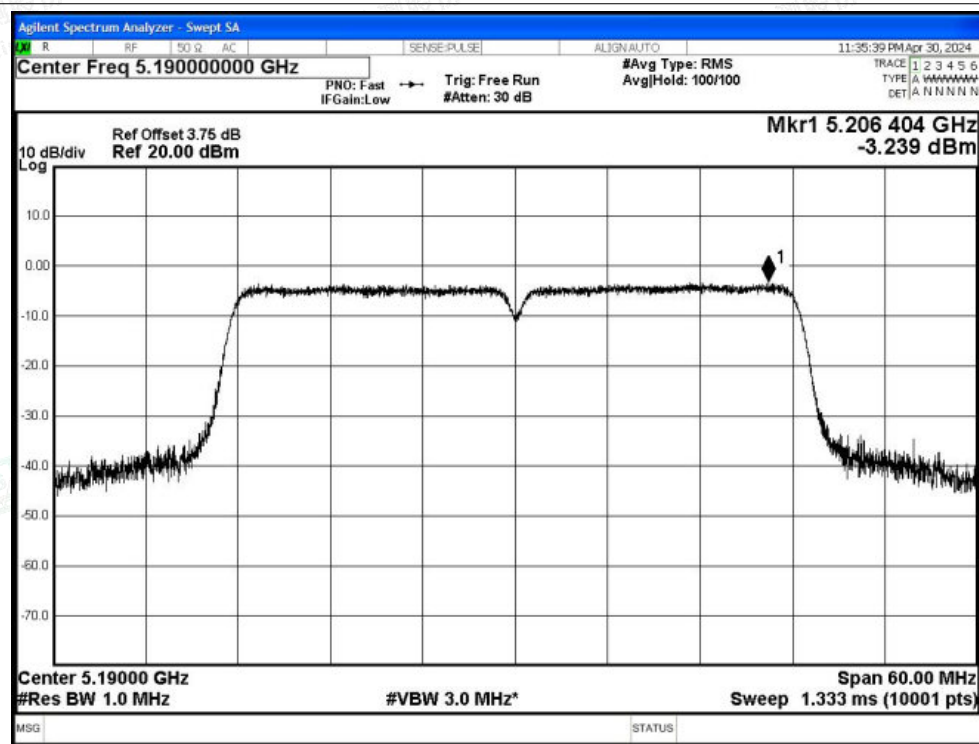




PSD NVNT ac20 5240MHz Ant1

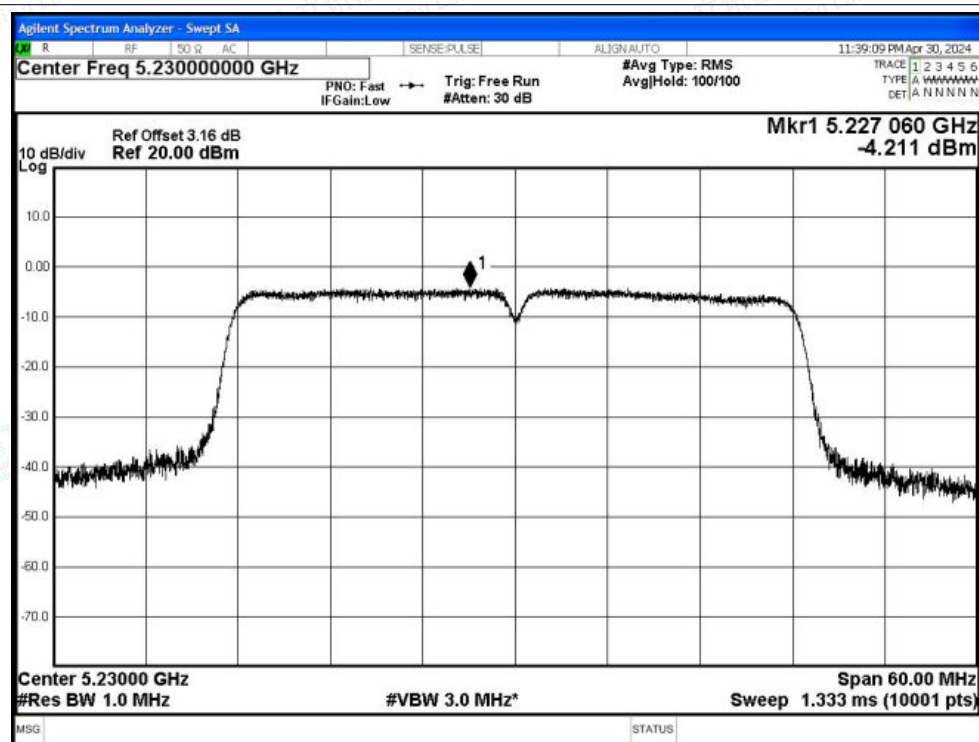


PSD NVNT ac40 5190MHz Ant1

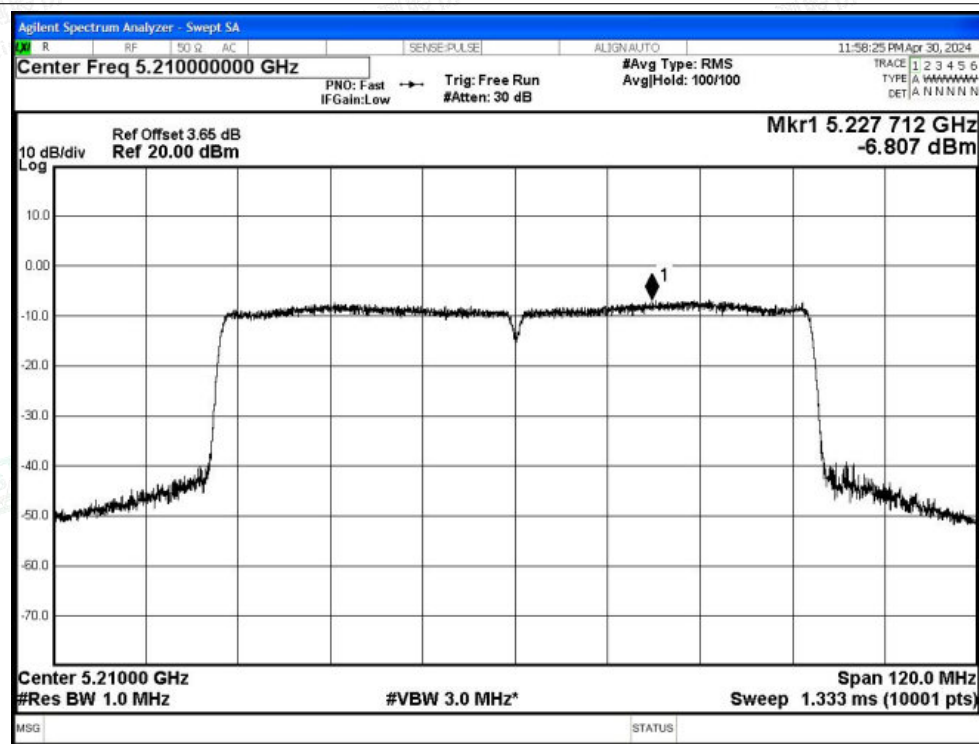




PSD NVNT ac40 5230MHz Ant1

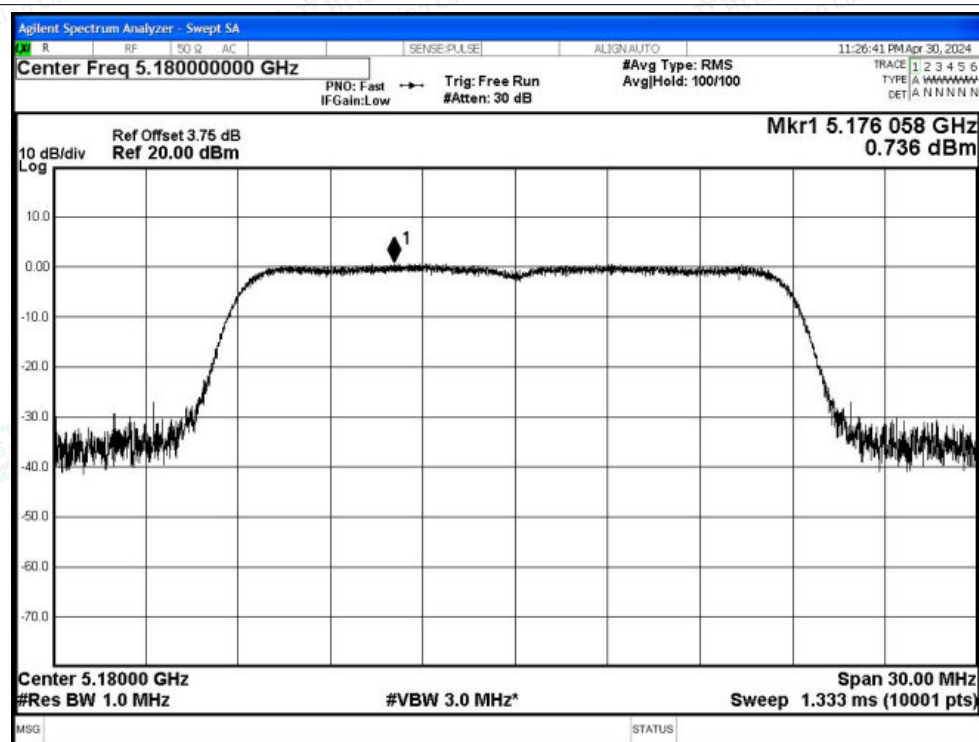


PSD NVNT ac80 5210MHz Ant1

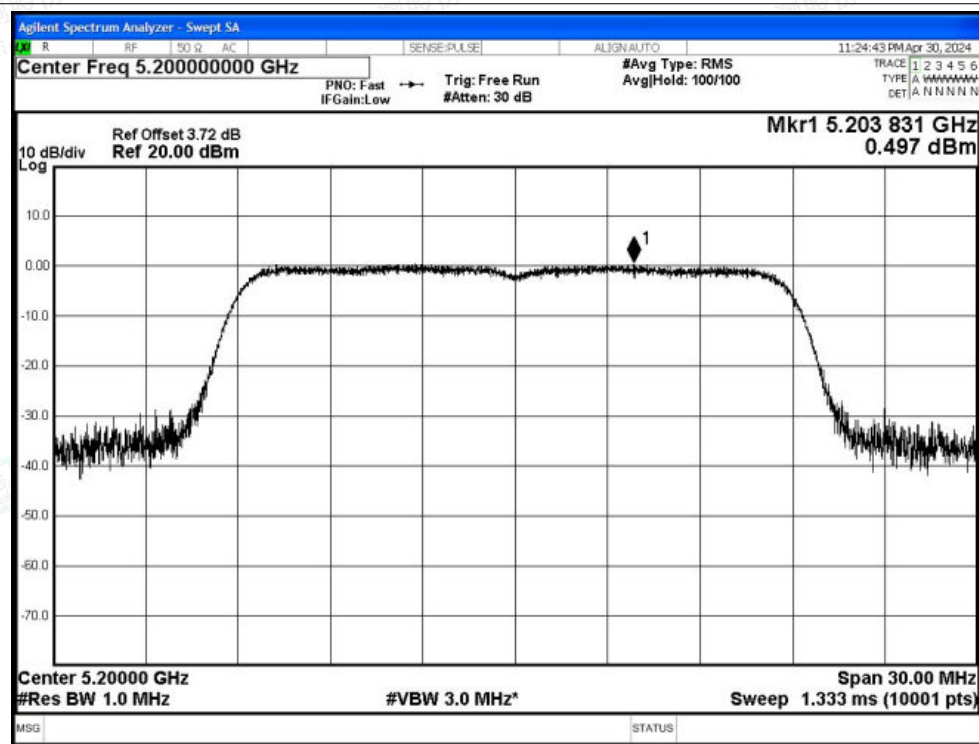




PSD NVNT ax20 5180MHz Ant1

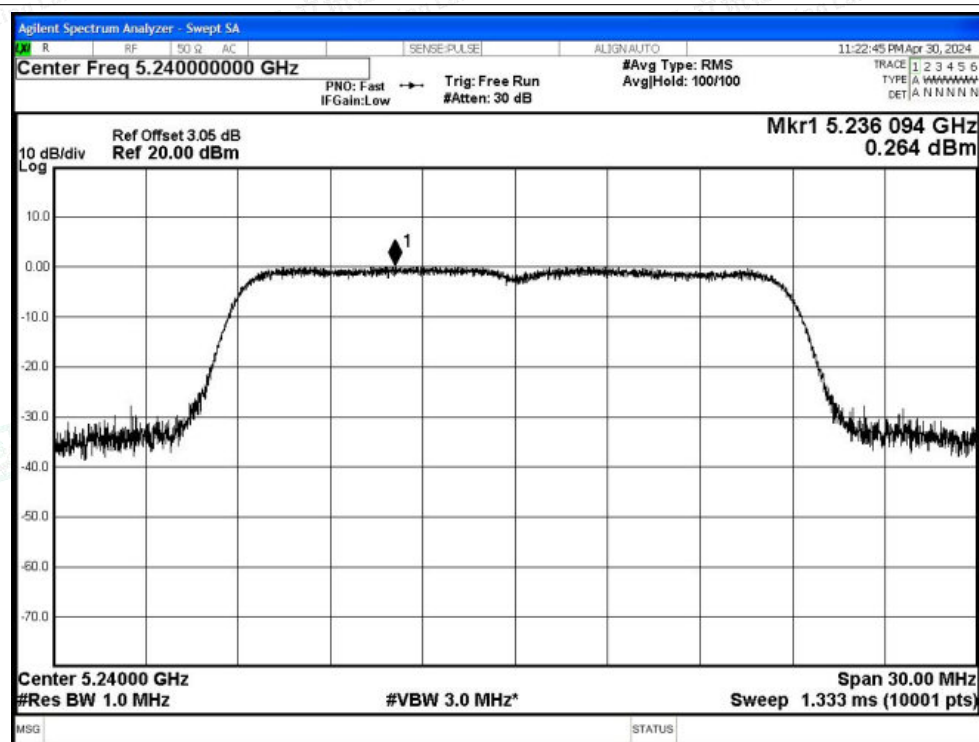


PSD NVNT ax20 5200MHz Ant1

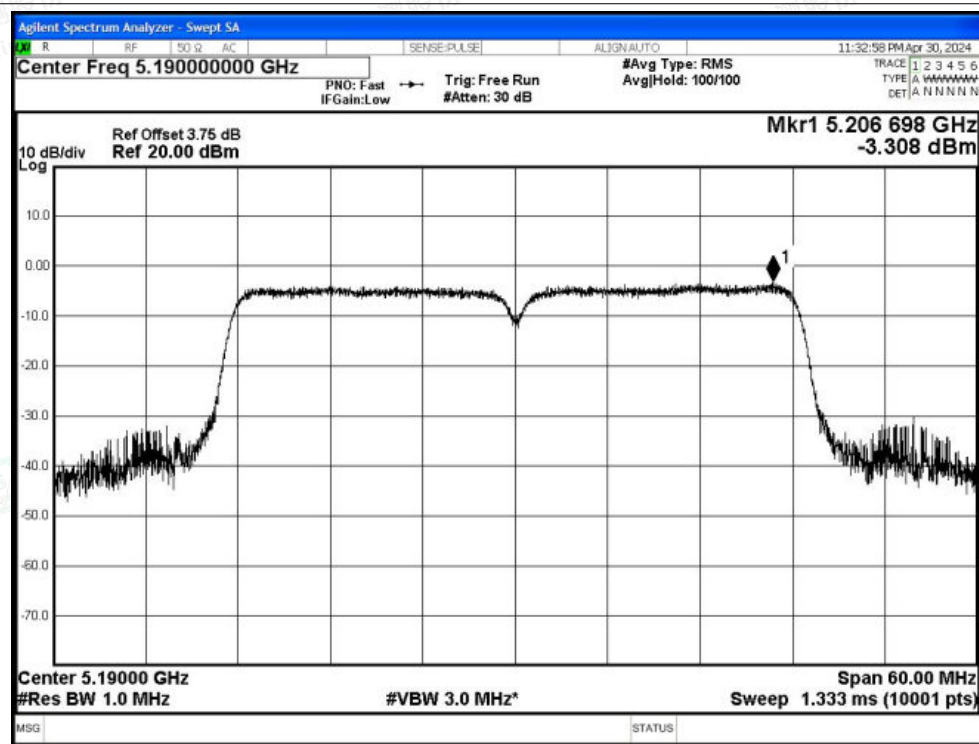




PSD NVNT ax20 5240MHz Ant1

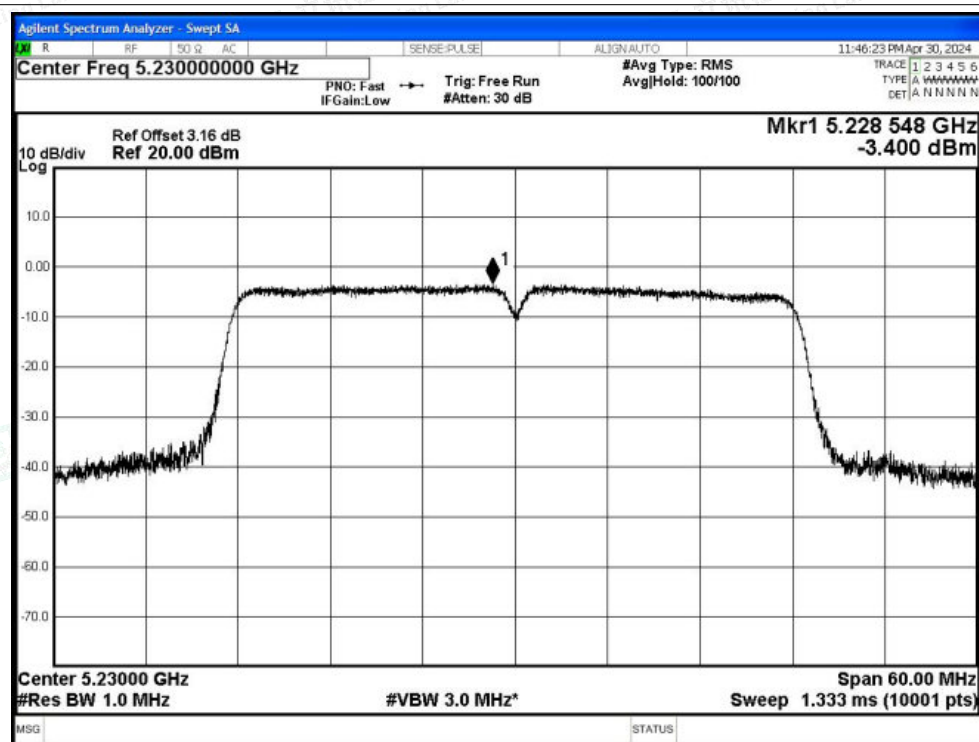


PSD NVNT ax40 5190MHz Ant1

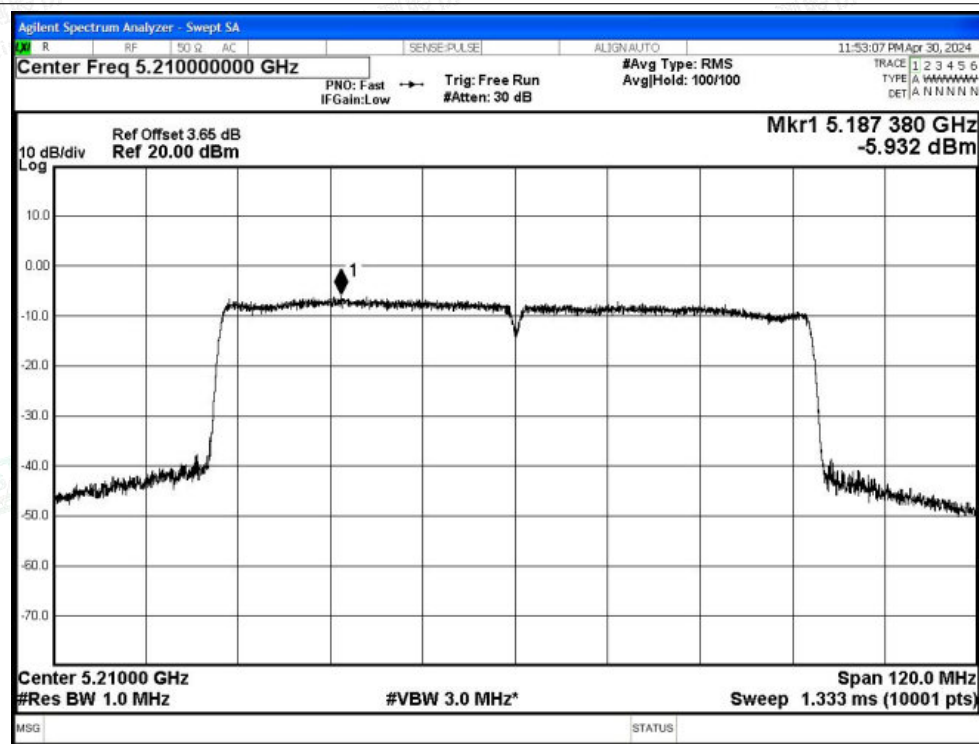




PSD NVNT ax40 5230MHz Ant1



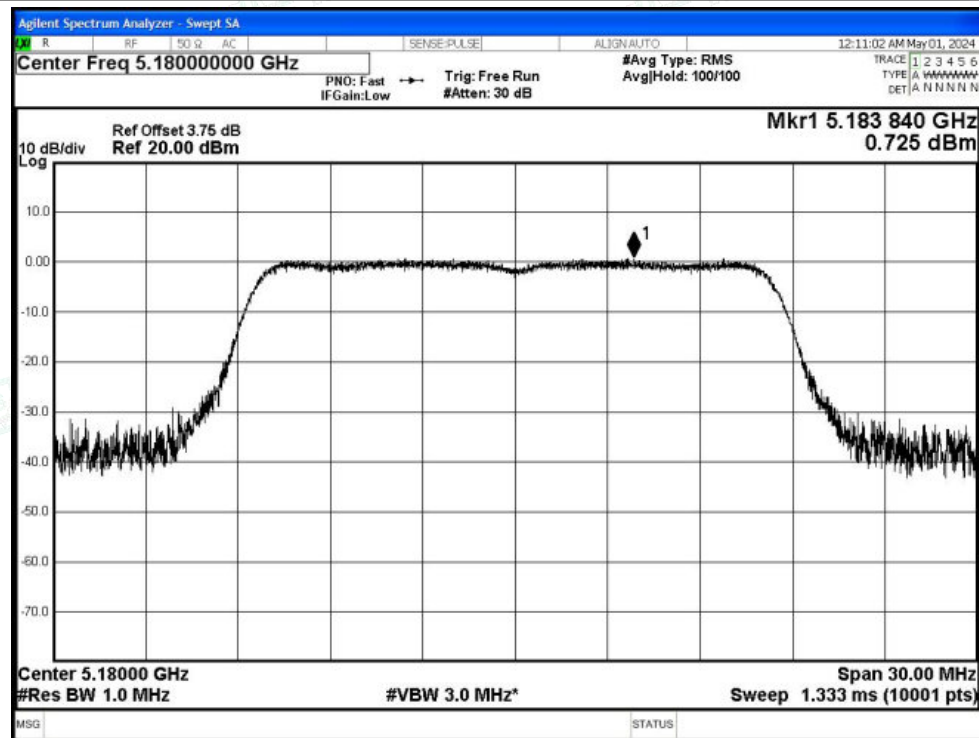
PSD NVNT ax80 5210MHz Ant1



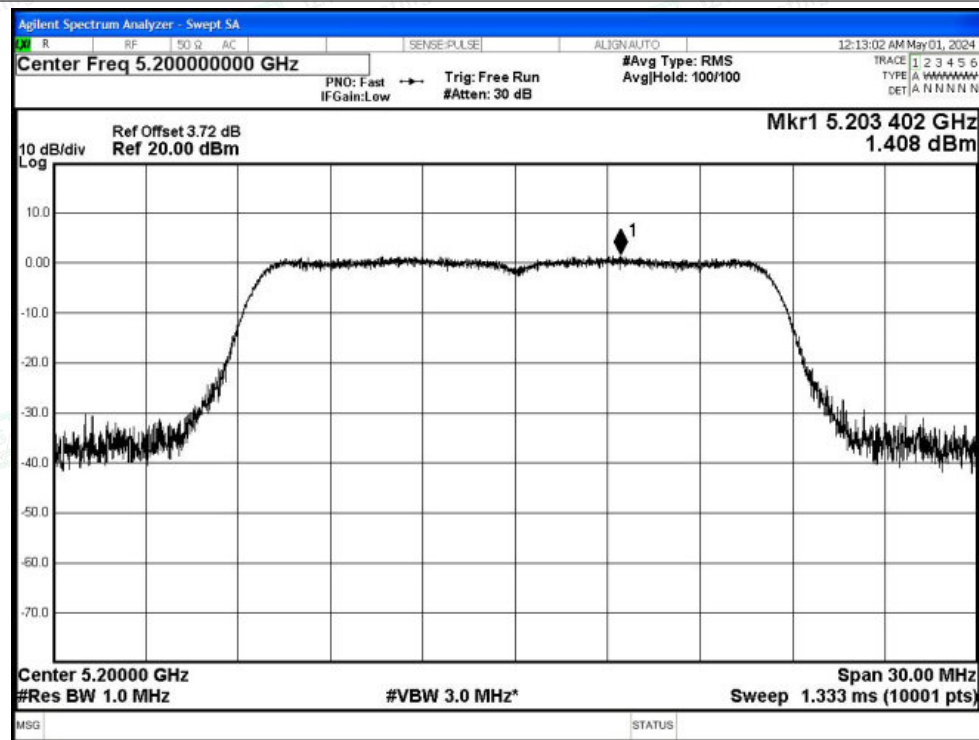


Test Graphs

PSD NVNT a 5180MHz Ant2

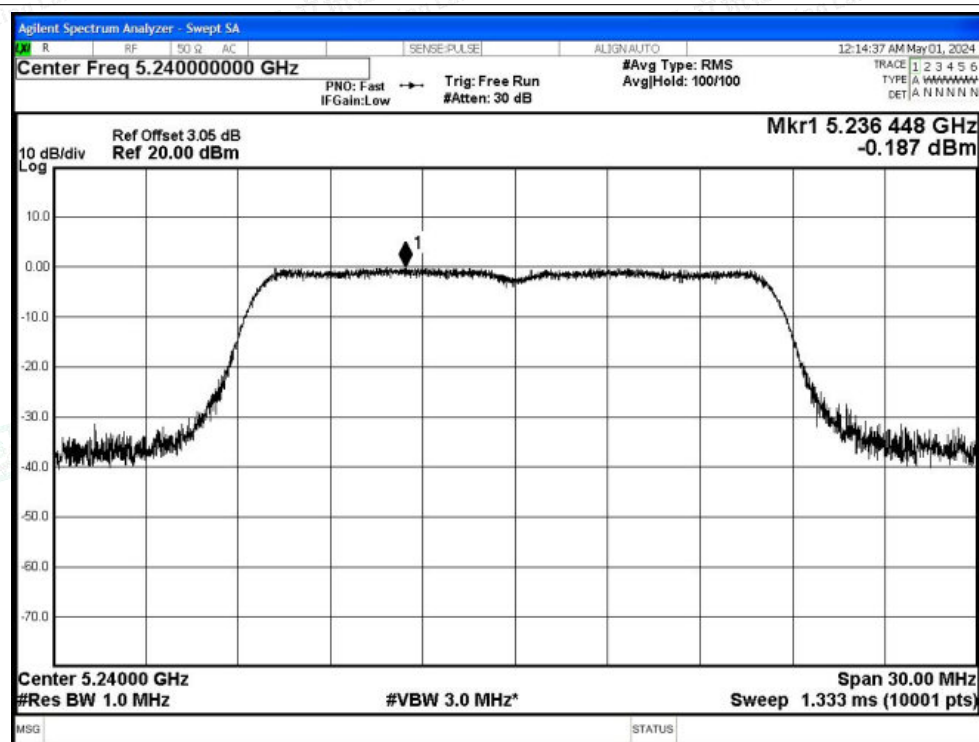


PSD NVNT a 5200MHz Ant2





PSD NVNT a 5240MHz Ant2



PSD NVNT n20 5180MHz Ant2

