

Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Digital Calendar

Test Model: 156C

Environmental Conditions

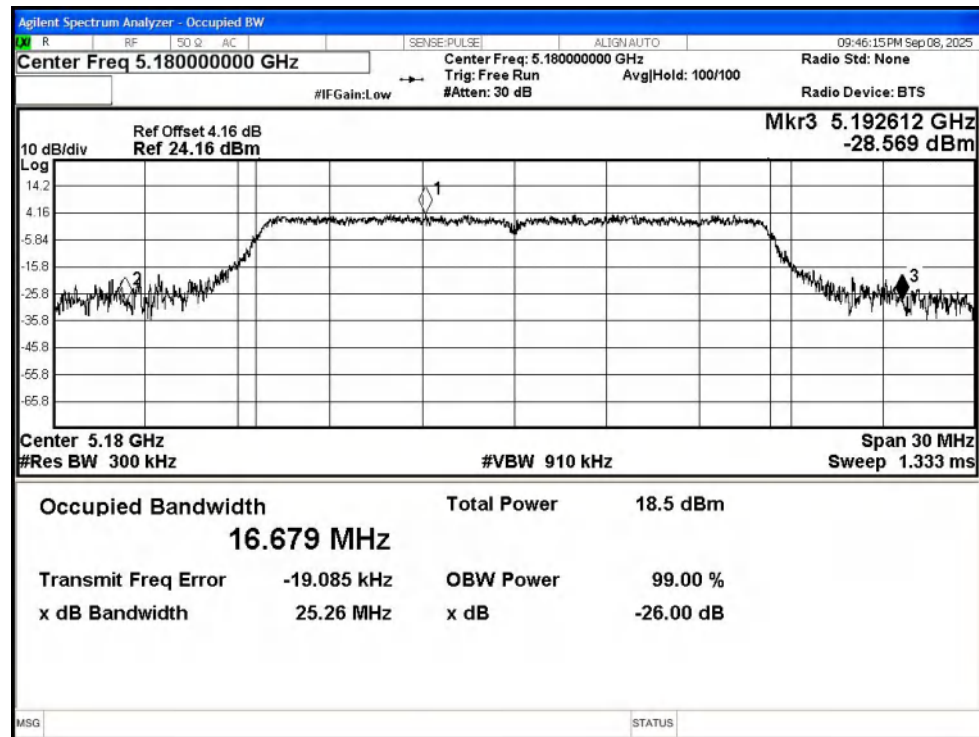
Temperature:	24.6°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Yongwang Li
Supervised by:	Fengliu Tang

B.1 -26dB Bandwidth

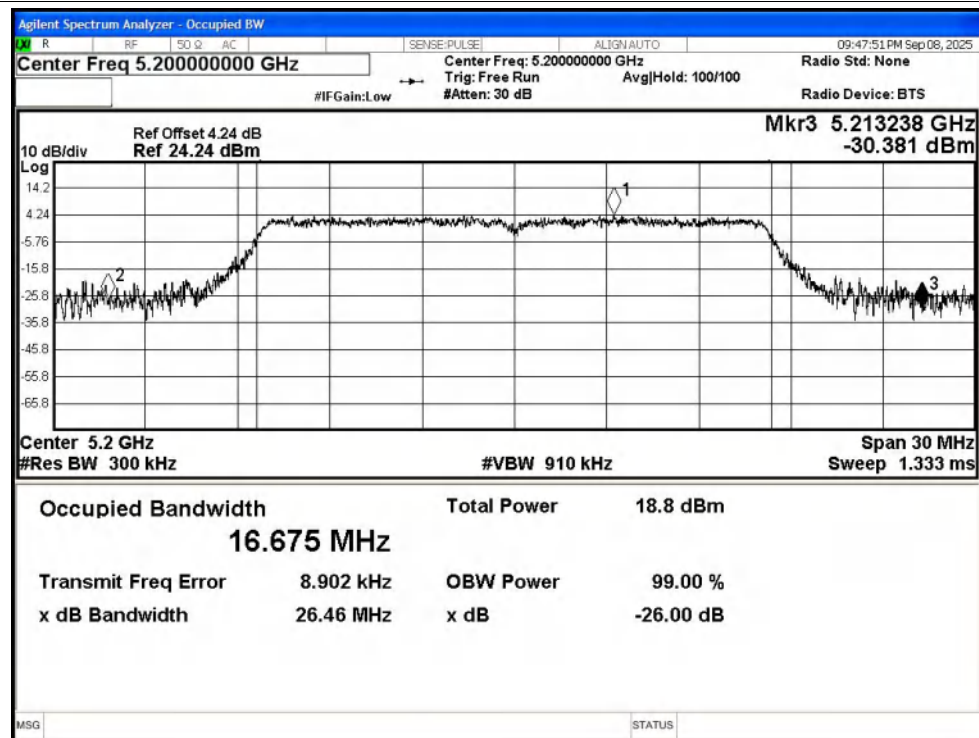
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	25.263	≥ 0.5	Pass
NVNT	a	5200	Ant1	26.458	≥ 0.5	Pass
NVNT	a	5240	Ant1	27.566	≥ 0.5	Pass
NVNT	n20	5180	Ant1	28.709	≥ 0.5	Pass
NVNT	n20	5200	Ant1	27.854	≥ 0.5	Pass
NVNT	n20	5240	Ant1	29.206	≥ 0.5	Pass
NVNT	n40	5190	Ant1	57.556	≥ 0.5	Pass
NVNT	n40	5230	Ant1	46.291	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	27.872	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	27.988	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	28.987	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	55.837	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	46.37	≥ 0.5	Pass

Test Graphs

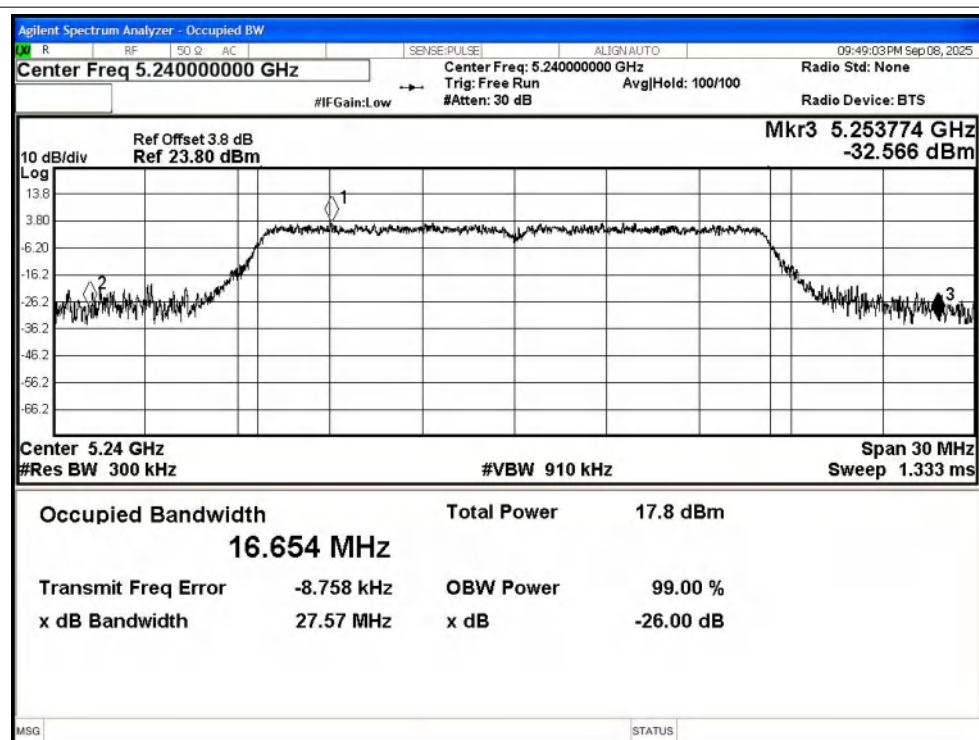
-26dB Bandwidth NVNT a 5180MHz Ant1



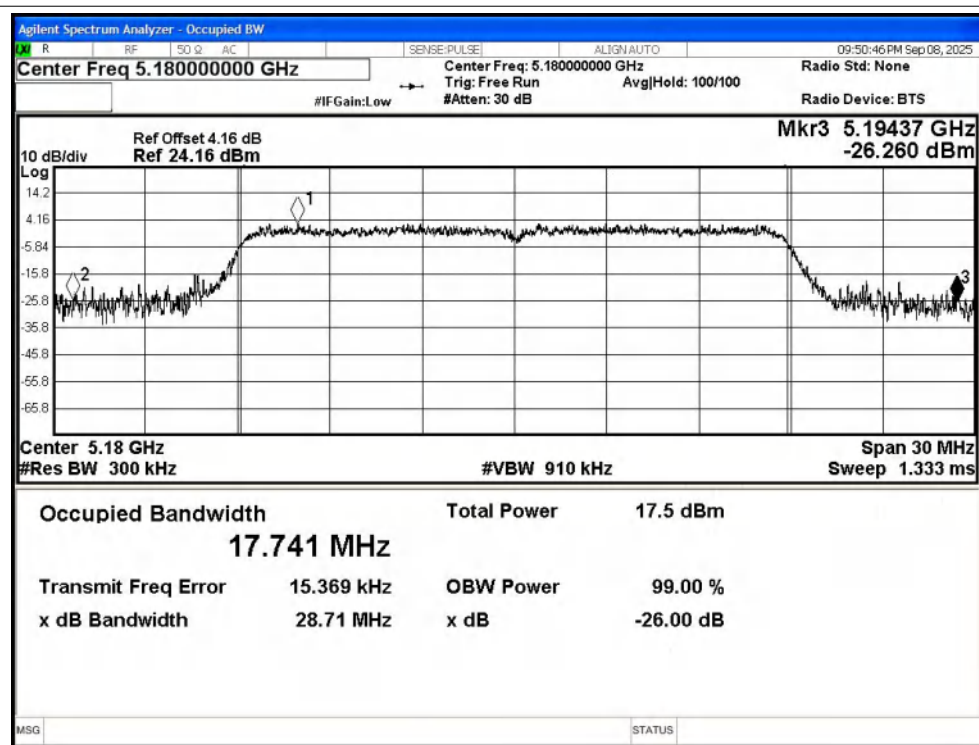
-26dB Bandwidth NVNT a 5200MHz Ant1



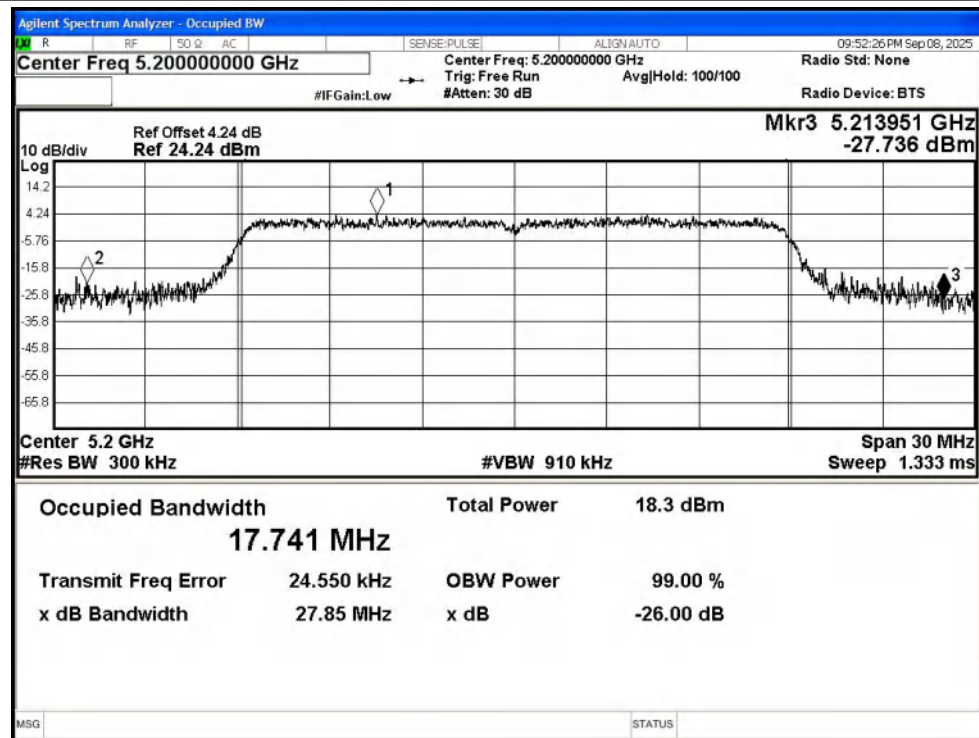
-26dB Bandwidth NVNT a 5240MHz Ant1



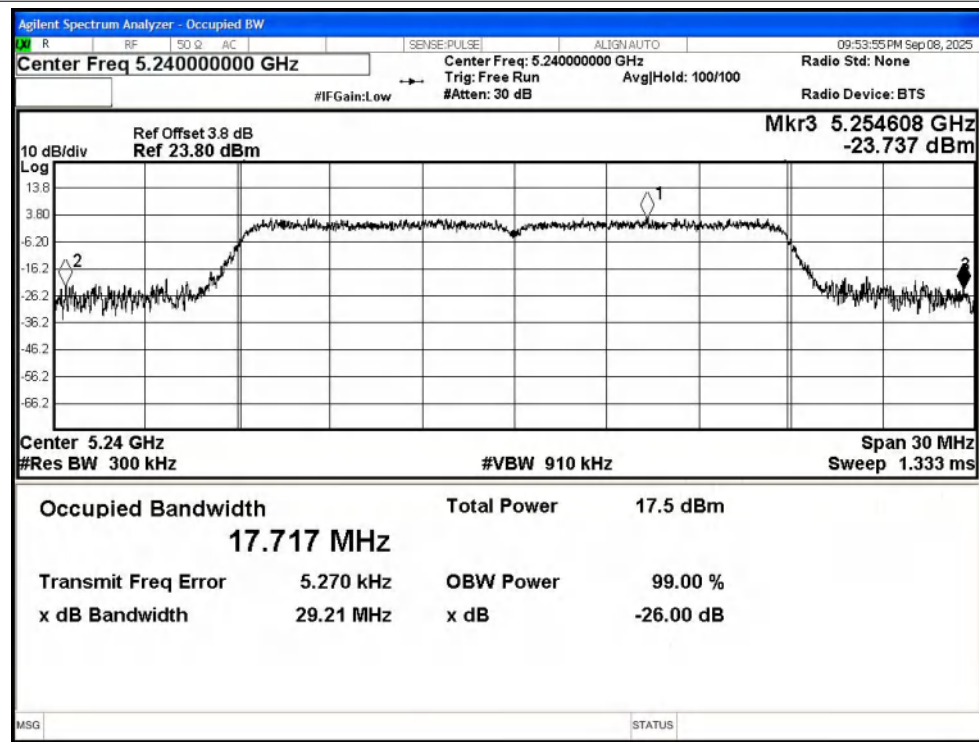
-26dB Bandwidth NVNT n20 5180MHz Ant1



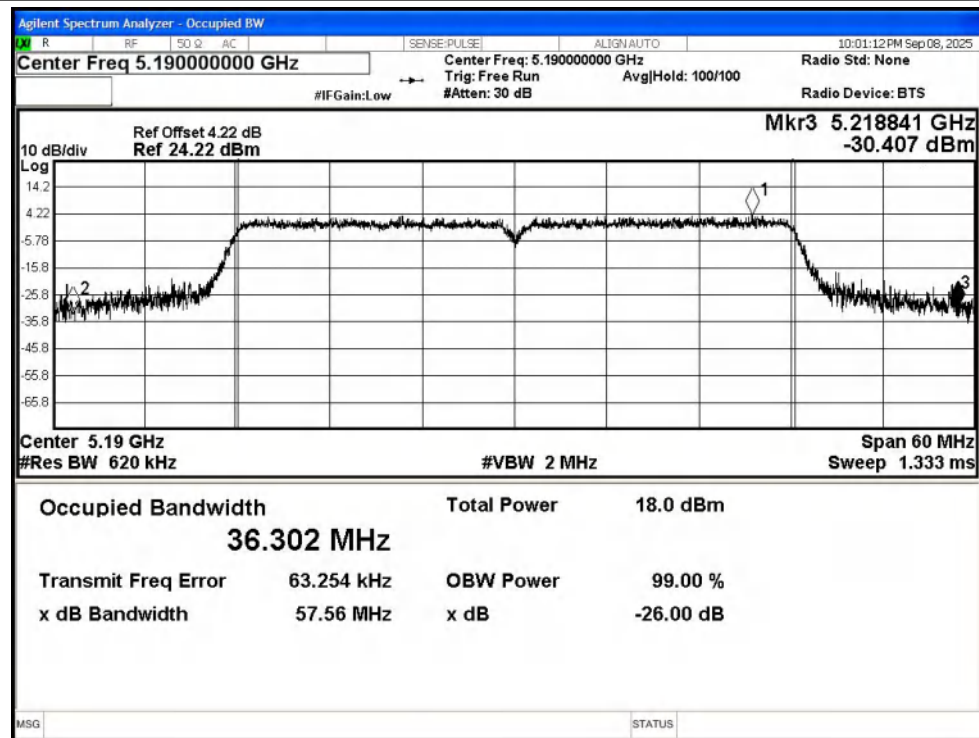
-26dB Bandwidth NVNT n20 5200MHz Ant1



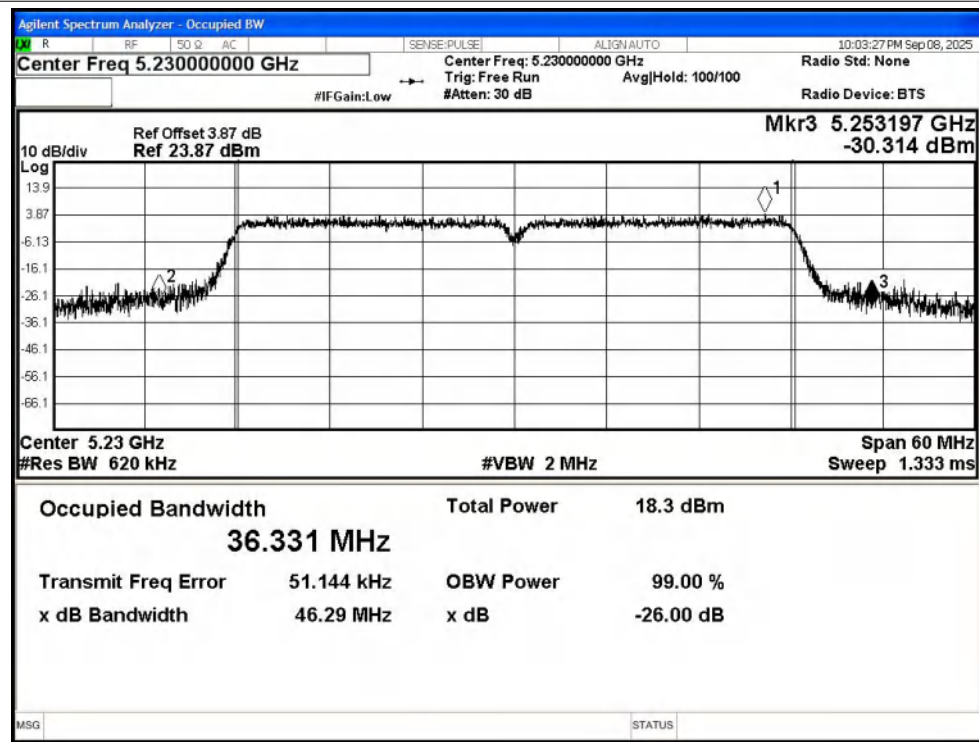
-26dB Bandwidth NVNT n20 5240MHz Ant1



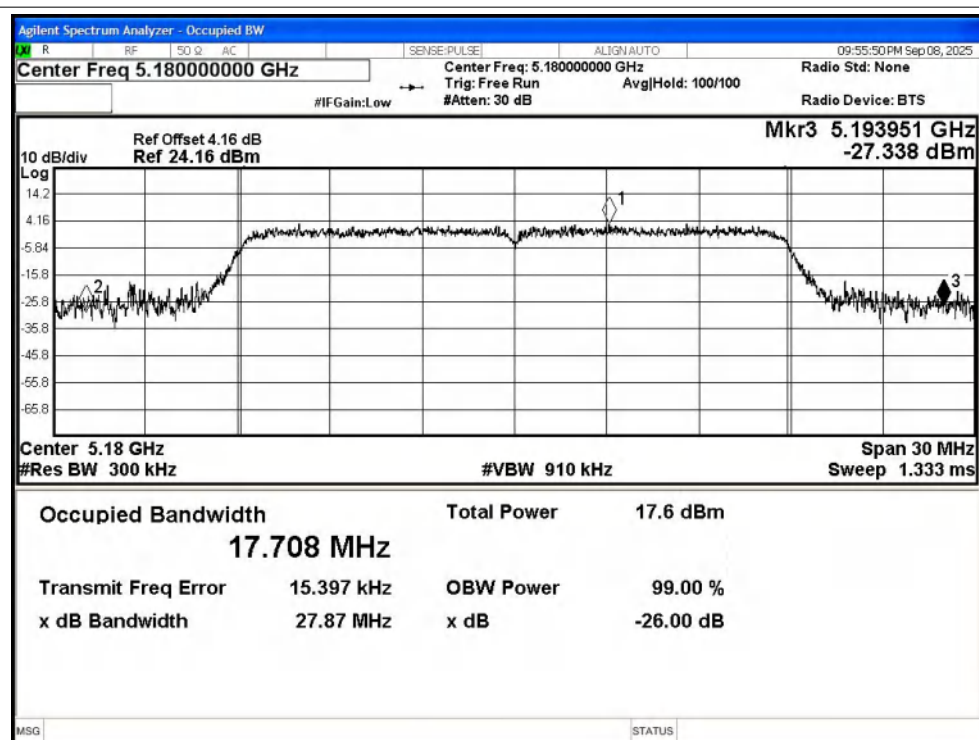
-26dB Bandwidth NVNT n40 5190MHz Ant1



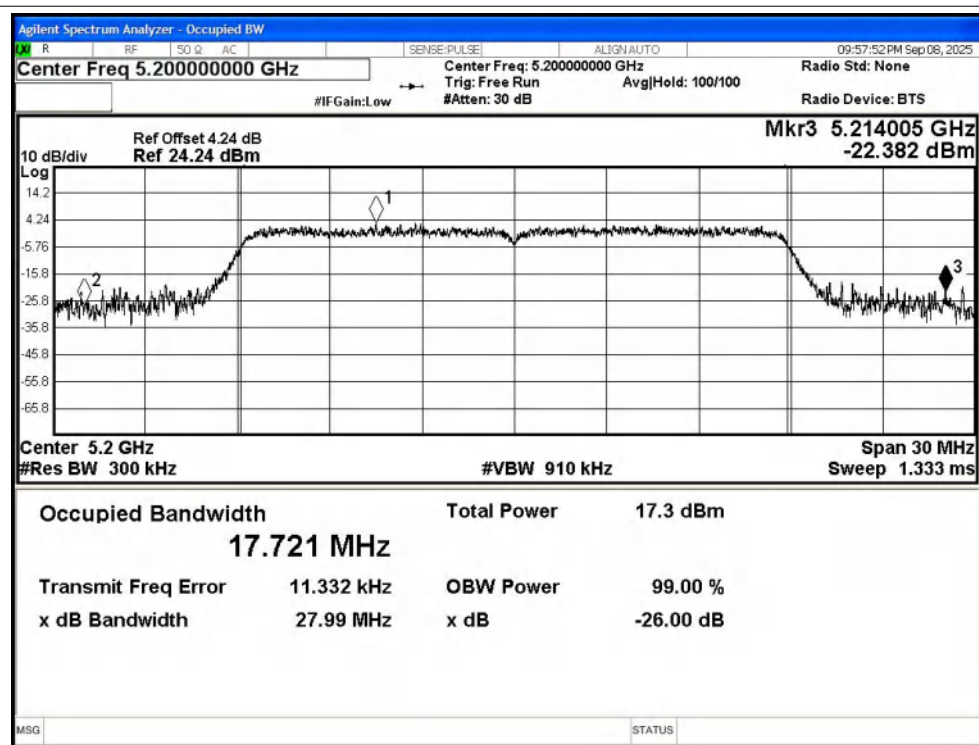
-26dB Bandwidth NVNT n40 5230MHz Ant1



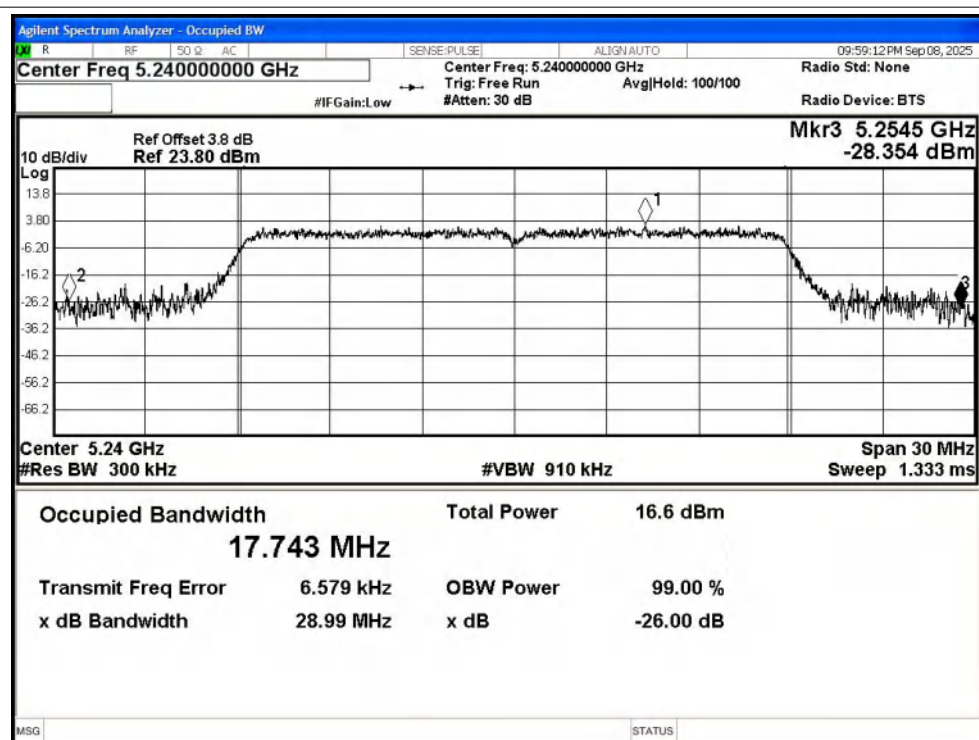
-26dB Bandwidth NVNT ac20 5180MHz Ant1



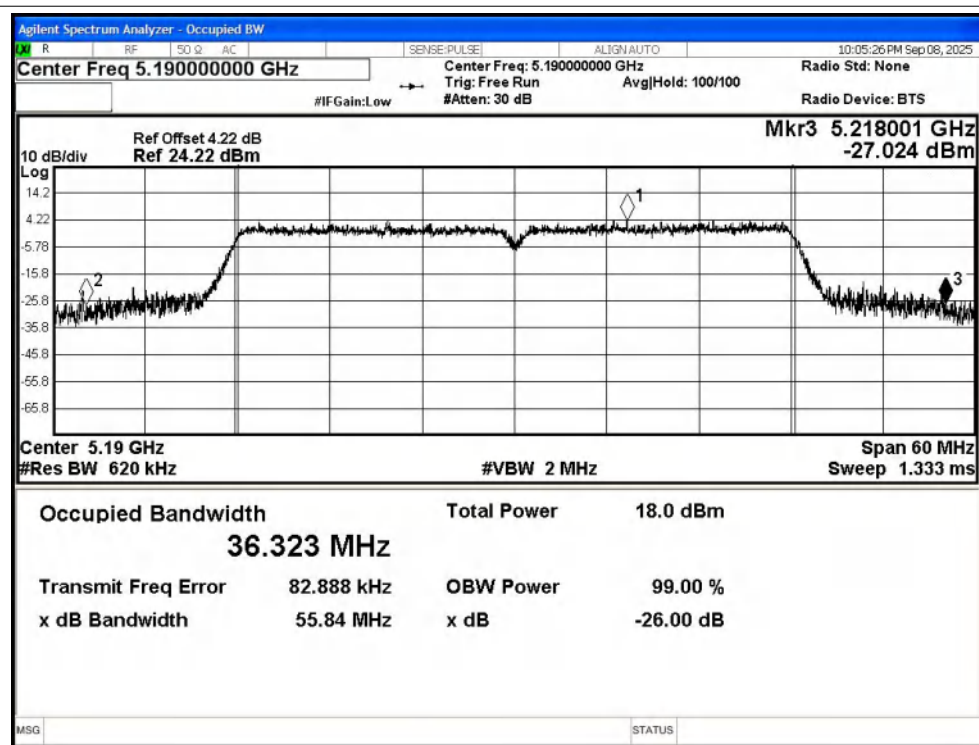
-26dB Bandwidth NVNT ac20 5200MHz Ant1

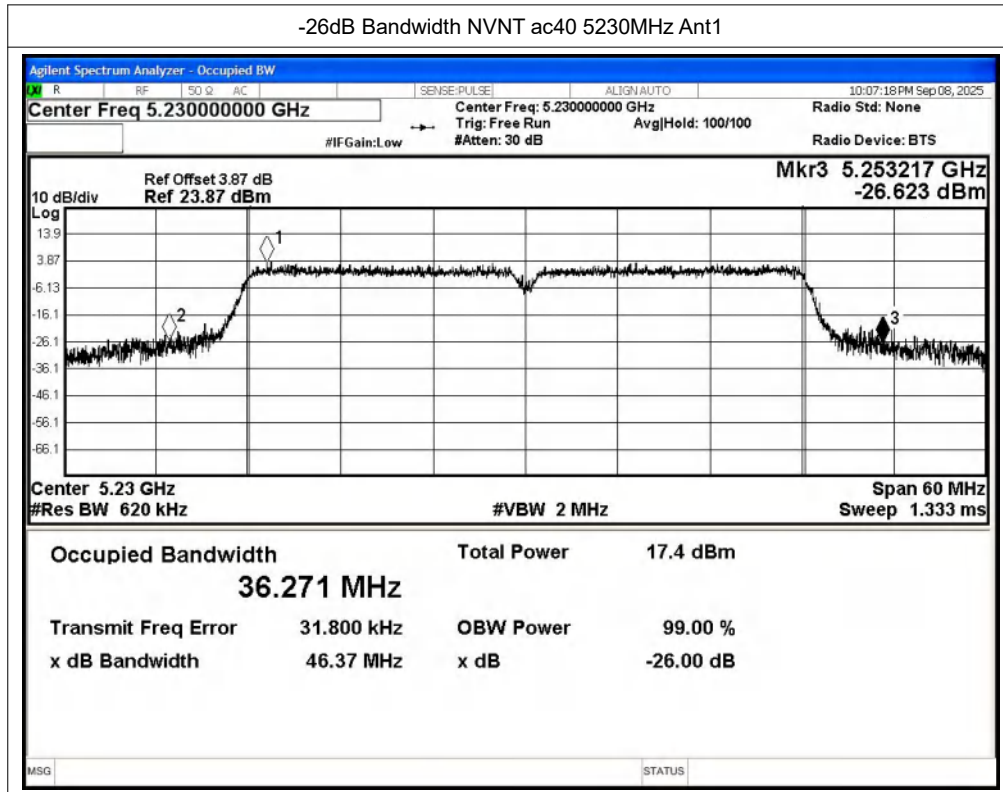


-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1





B.2 Maximum Conducted Output Power

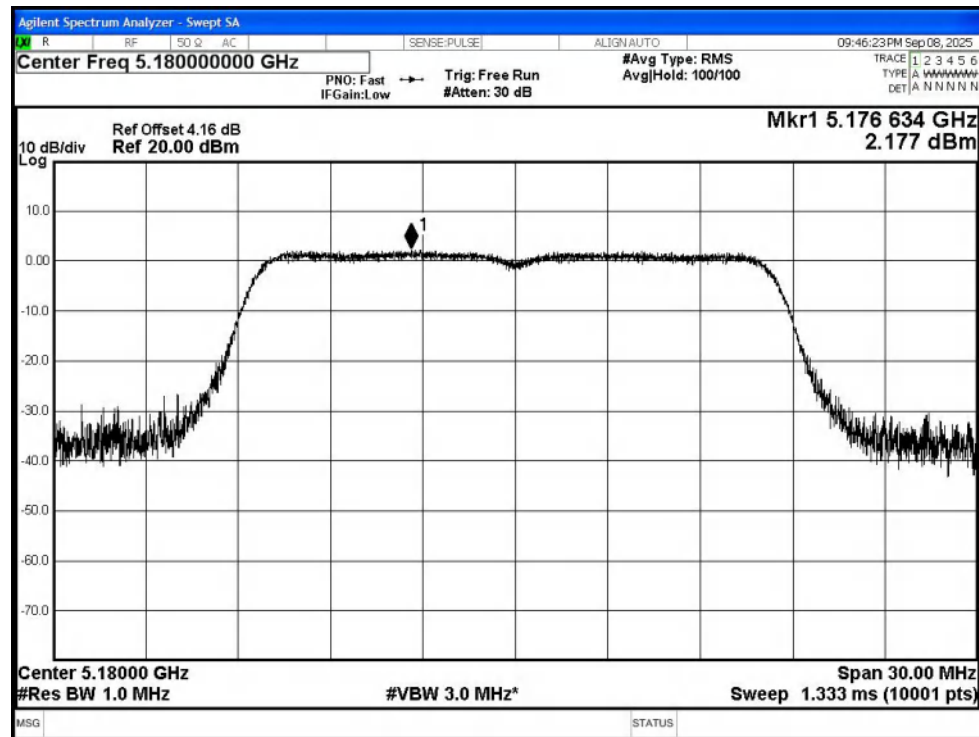
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.82	0.24	13.06	24	Pass
NVNT	a	5200	Ant1	13.11	0.24	13.35	24	Pass
NVNT	a	5240	Ant1	12.07	0.24	12.31	24	Pass
NVNT	n20	5180	Ant1	11.6	0.12	11.72	24	Pass
NVNT	n20	5200	Ant1	12.78	0.12	12.9	24	Pass
NVNT	n20	5240	Ant1	11.95	0.12	12.07	24	Pass
NVNT	n40	5190	Ant1	11.65	0.23	11.88	24	Pass
NVNT	n40	5230	Ant1	11.96	0.23	12.19	24	Pass
NVNT	ac20	5180	Ant1	12.06	0.12	12.18	24	Pass
NVNT	ac20	5200	Ant1	11.81	0.12	11.93	24	Pass
NVNT	ac20	5240	Ant1	11.12	0.12	11.24	24	Pass
NVNT	ac40	5190	Ant1	11.65	0.24	11.89	24	Pass
NVNT	ac40	5230	Ant1	10.99	0.24	11.23	24	Pass

B.3 Maximum Power Spectral Density Level

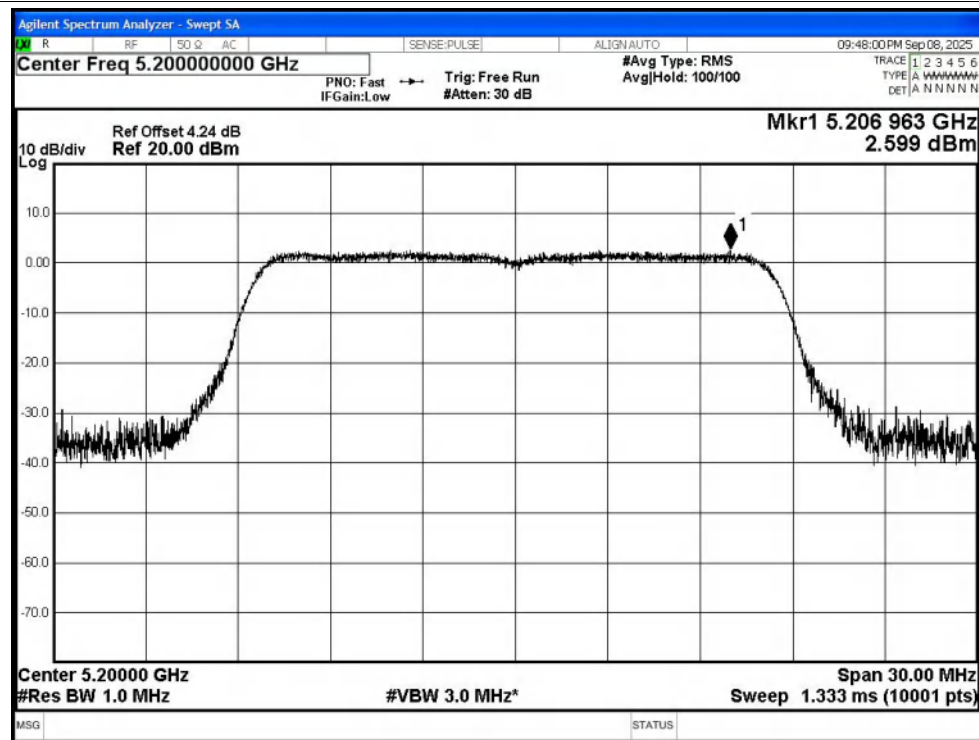
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.18	0.24	2.42	11	Pass
NVNT	a	5200	Ant1	2.6	0.24	2.84	11	Pass
NVNT	a	5240	Ant1	1.53	0.24	1.77	11	Pass
NVNT	n20	5180	Ant1	1.37	0.12	1.49	11	Pass
NVNT	n20	5200	Ant1	2.16	0.12	2.28	11	Pass
NVNT	n20	5240	Ant1	1.08	0.12	1.2	11	Pass
NVNT	n40	5190	Ant1	-1.72	0.23	-1.49	11	Pass
NVNT	n40	5230	Ant1	-1.64	0.23	-1.41	11	Pass
NVNT	ac20	5180	Ant1	1.34	0.12	1.46	11	Pass
NVNT	ac20	5200	Ant1	1	0.12	1.12	11	Pass
NVNT	ac20	5240	Ant1	0.34	0.12	0.46	11	Pass
NVNT	ac40	5190	Ant1	-1.89	0.24	-1.65	11	Pass
NVNT	ac40	5230	Ant1	-2.8	0.24	-2.56	11	Pass

Test Graphs

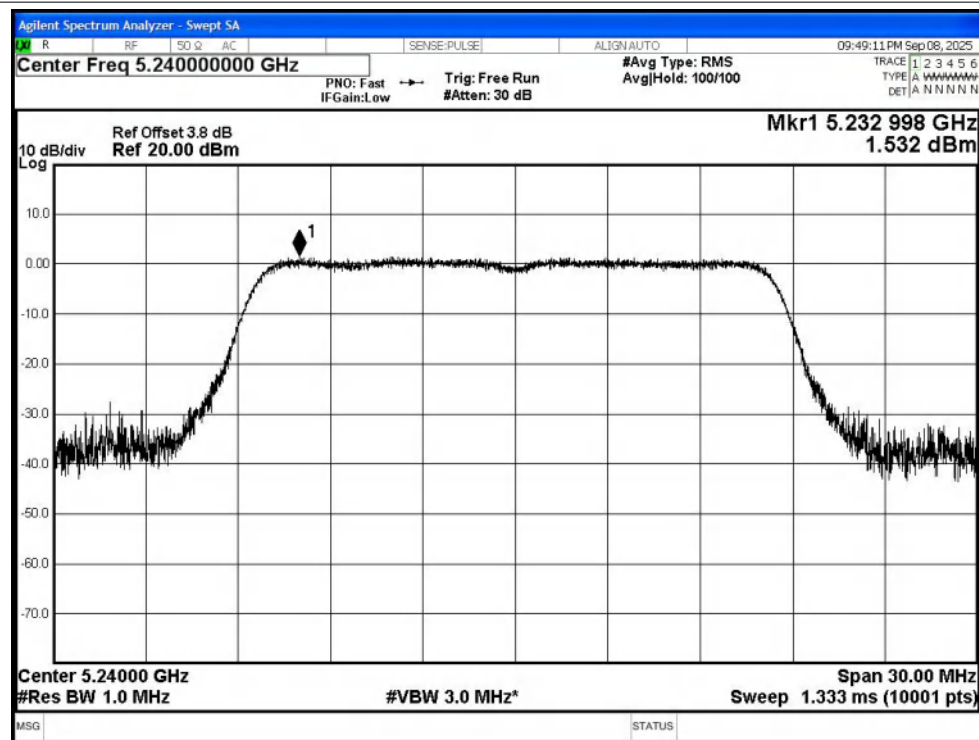
PSD NVNT a 5180MHz Ant1



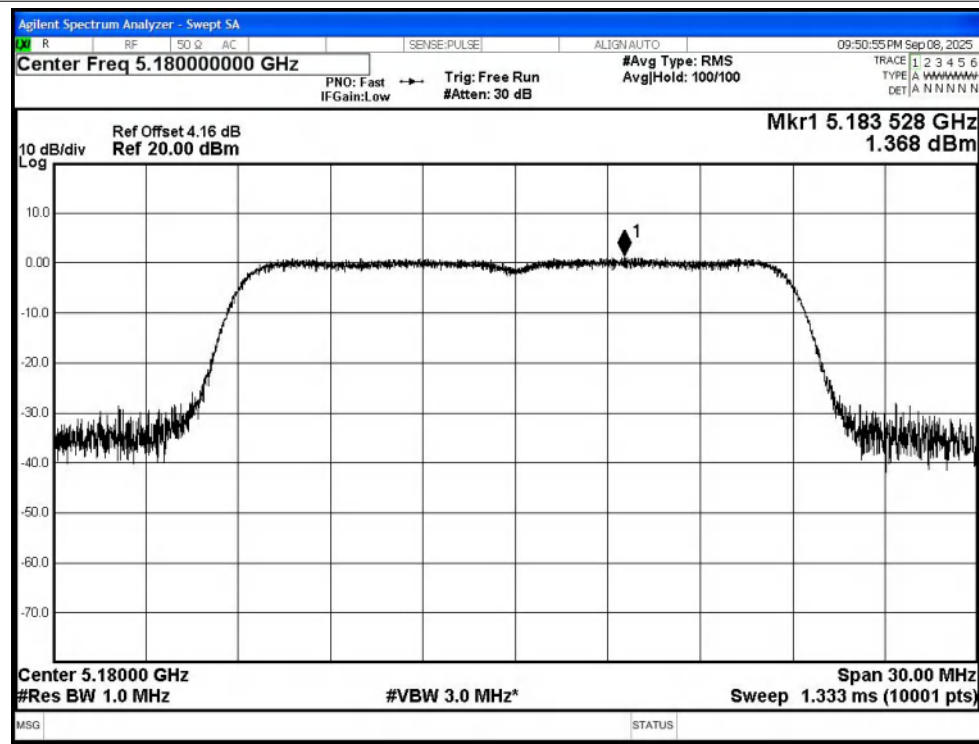
PSD NVNT a 5200MHz Ant1

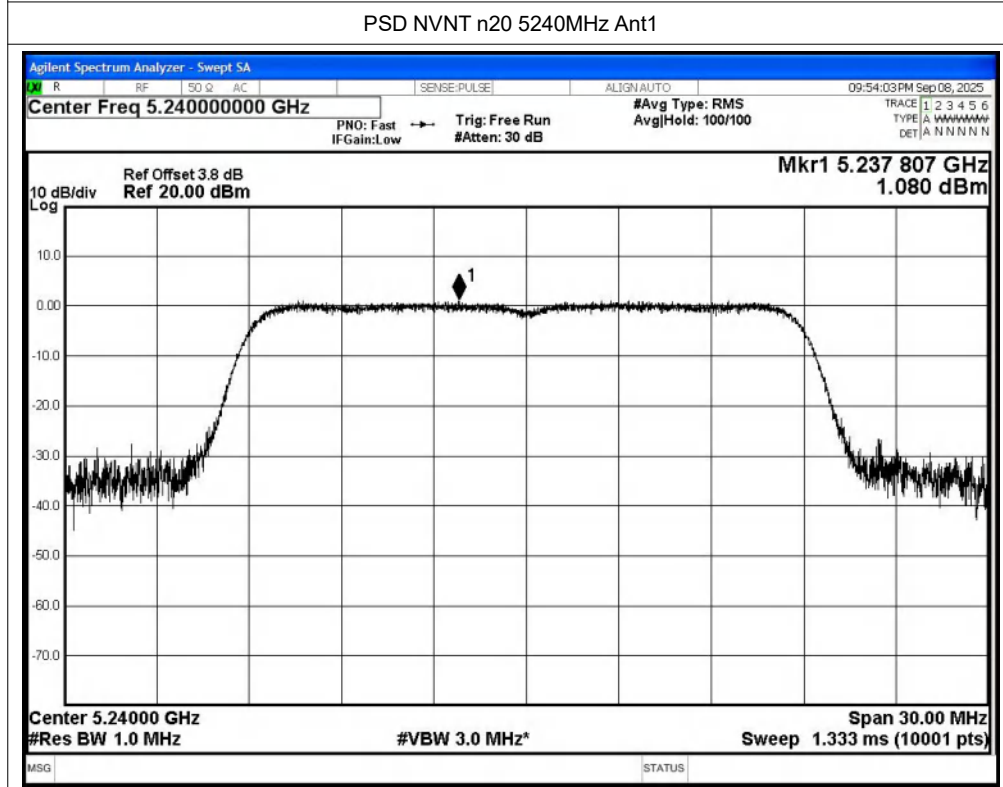
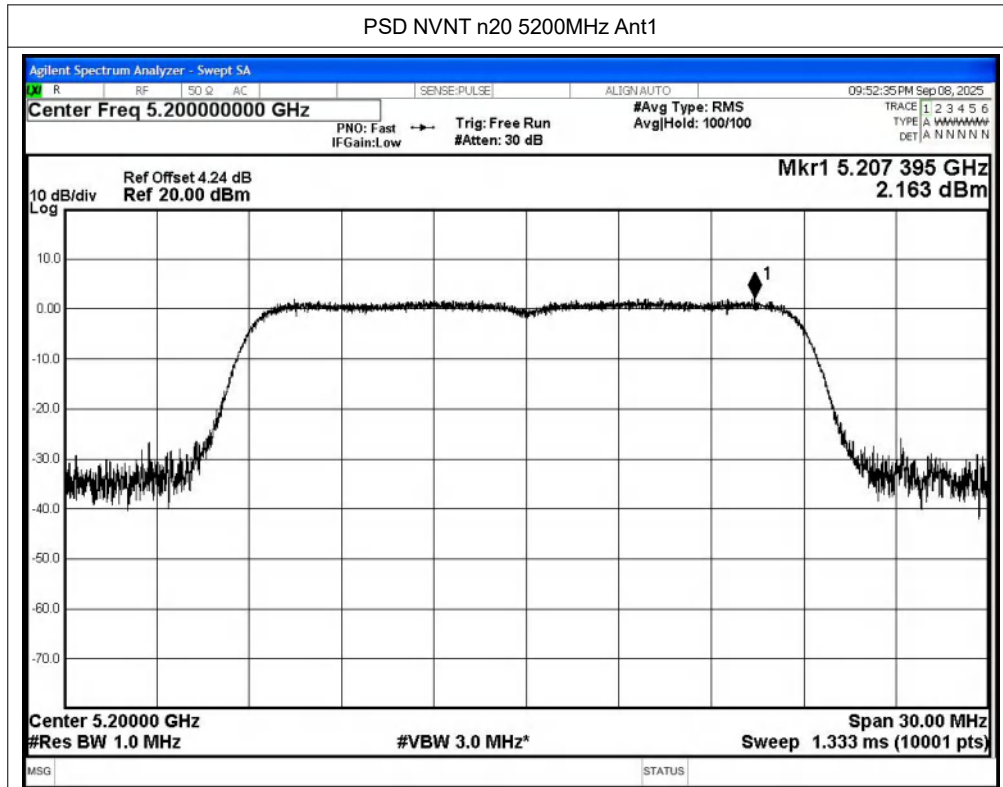


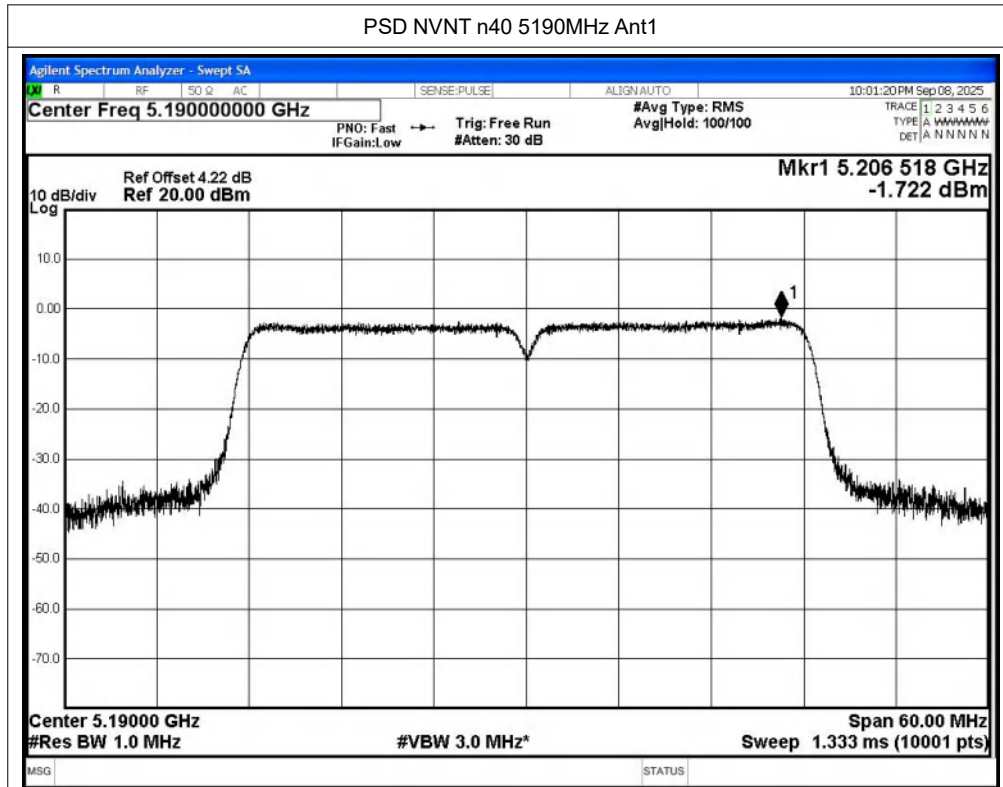
PSD NVNT a 5240MHz Ant1



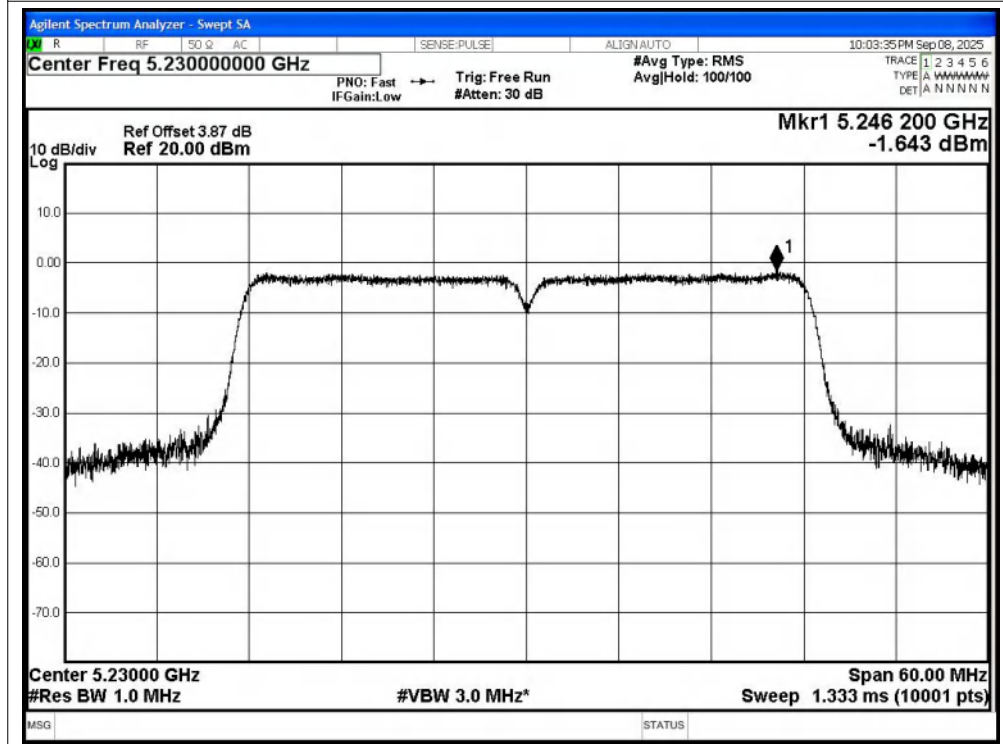
PSD NVNT n20 5180MHz Ant1



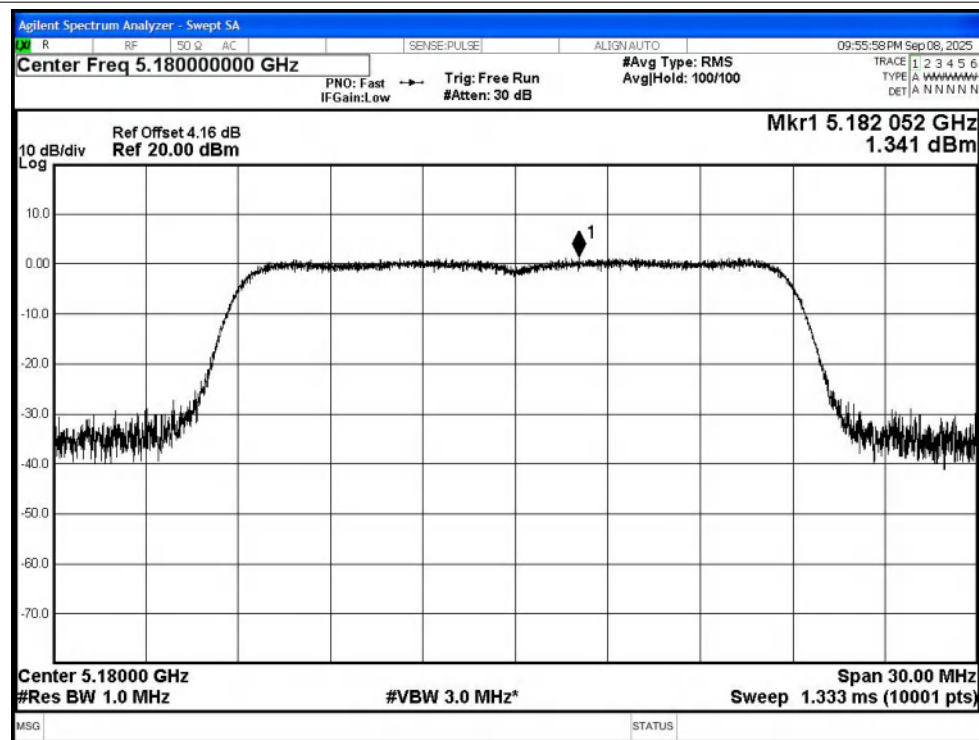




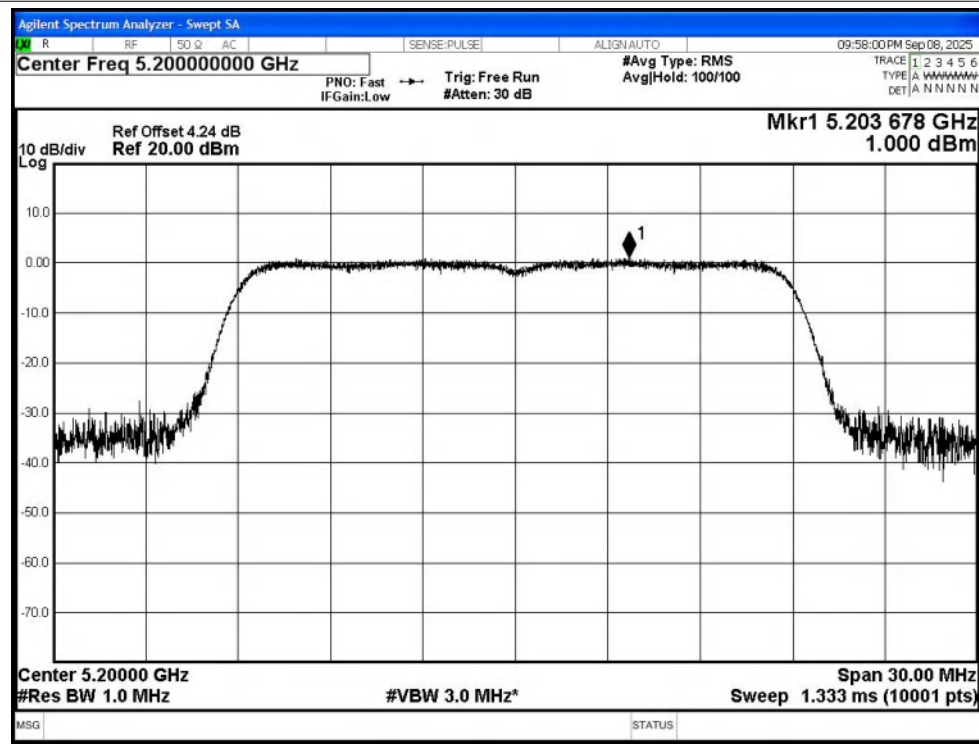
PSD NVNT n40 5230MHz Ant1



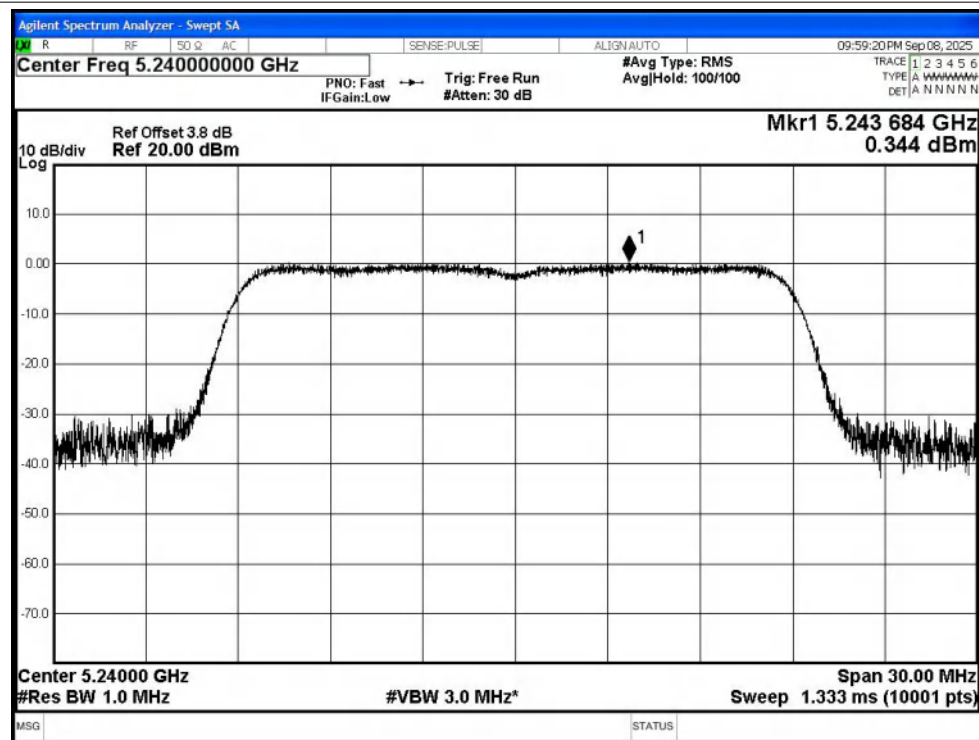
PSD NVNT ac20 5180MHz Ant1



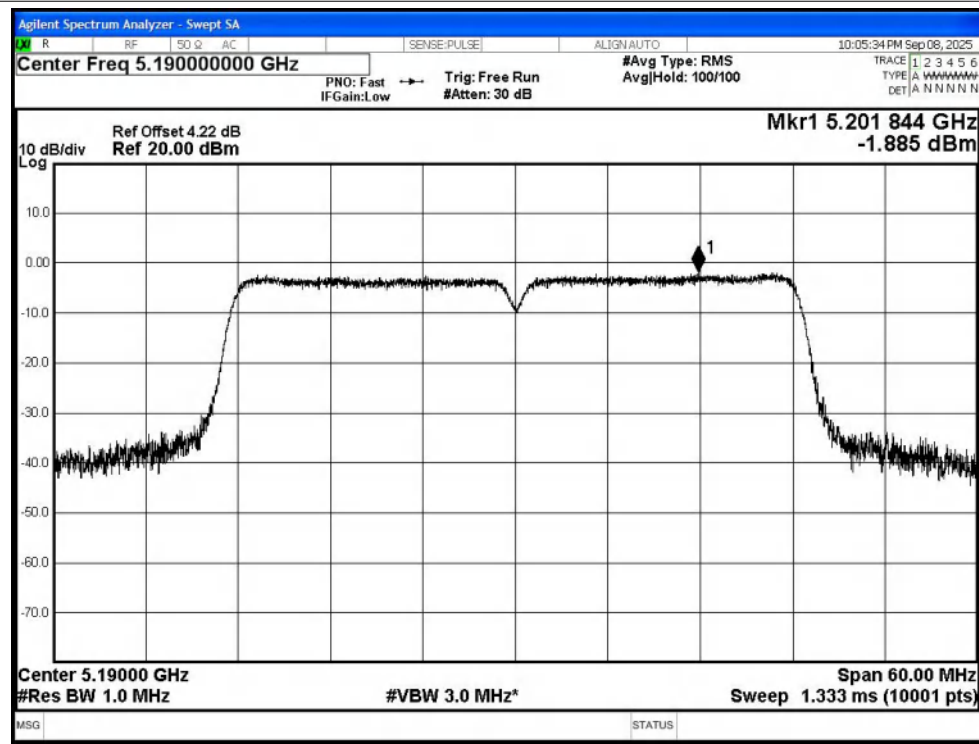
PSD NVNT ac20 5200MHz Ant1

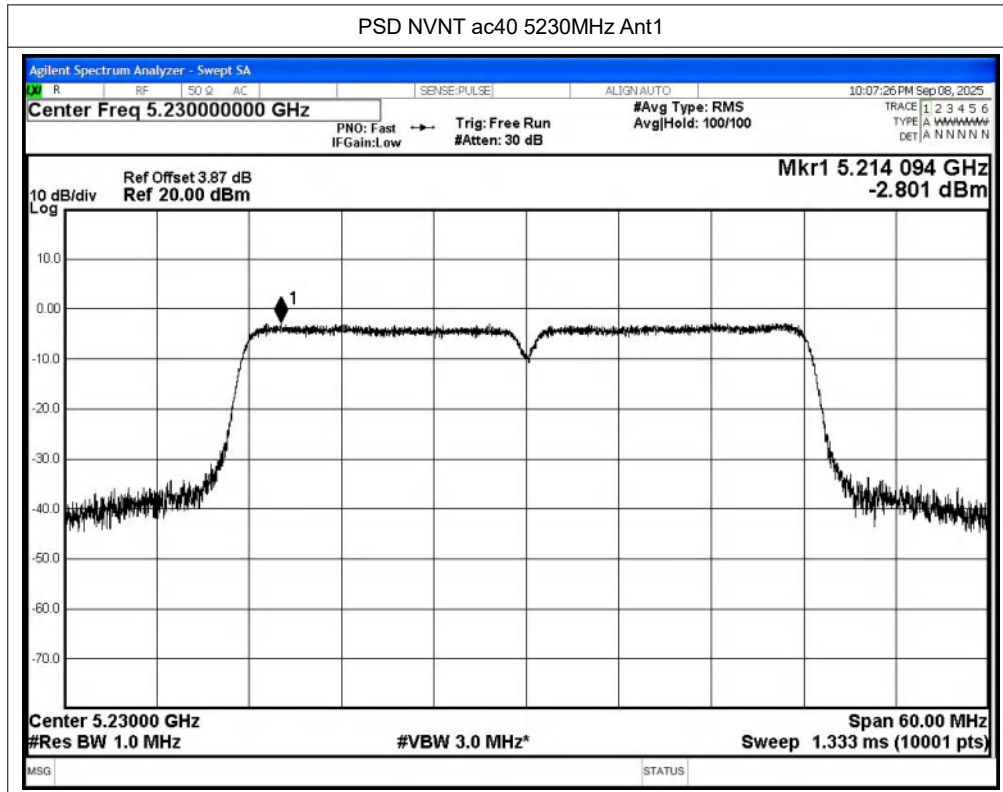


PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1





B.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-50.09	2.43	-	47.57	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.86	2.43	0.24	40.04	Average	54	Pass
NVNT	a	5180	Ant1	5148.2	-44.3	2.43	-	53.36	Peak	68.2	Pass
NVNT	a	5180	Ant1	5026.4	-55.27	2.43	0.24	42.63	Average	54	Pass
NVNT	a	5180	Ant1	5150	-47.65	2.43	-	50.01	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-54.69	2.43	0.24	43.21	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.79	2.43	-	48.87	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-57.09	2.43	0.24	40.81	Average	54	Pass
NVNT	a	5240	Ant1	5407.68	-46.06	2.43	-	51.60	Peak	68.2	Pass
NVNT	a	5240	Ant1	5369.52	-56.37	2.43	0.24	41.53	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.14	2.43	-	47.52	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.38	2.43	0.24	40.52	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.34	2.43	-	48.32	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.75	2.43	0.12	40.03	Average	54	Pass
NVNT	n20	5180	Ant1	5109	-45.12	2.43	-	52.54	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-55.22	2.43	0.12	42.56	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-45.03	2.43	-	52.63	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-55.58	2.43	0.12	42.20	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.31	2.43	-	48.35	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.86	2.43	0.12	40.92	Average	54	Pass
NVNT	n20	5240	Ant1	5397.36	-46.46	2.43	-	51.20	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5394.96	-56.41	2.43	0.12	41.37	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.36	2.43	-	48.30	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.2	2.43	0.12	40.58	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.91	2.43	-	47.75	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.58	2.43	0.23	40.31	Average	54	Pass
NVNT	n40	5190	Ant1	5147.51	-45.19	2.43	-	52.47	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-53.73	2.43	0.23	44.16	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-45.38	2.43	-	52.28	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-53.73	2.43	0.23	44.16	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.33	2.43	-	49.33	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.02	2.43	0.23	40.87	Average	54	Pass
NVNT	n40	5230	Ant1	5354.43	-46.07	2.43	-	51.59	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5387.1	-56.3	2.43	0.23	41.59	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.34	2.43	-	47.32	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-58.13	2.43	0.23	39.76	Average	54	Pass

Guangzhou LCS Compliance Testing Laboratory Ltd.

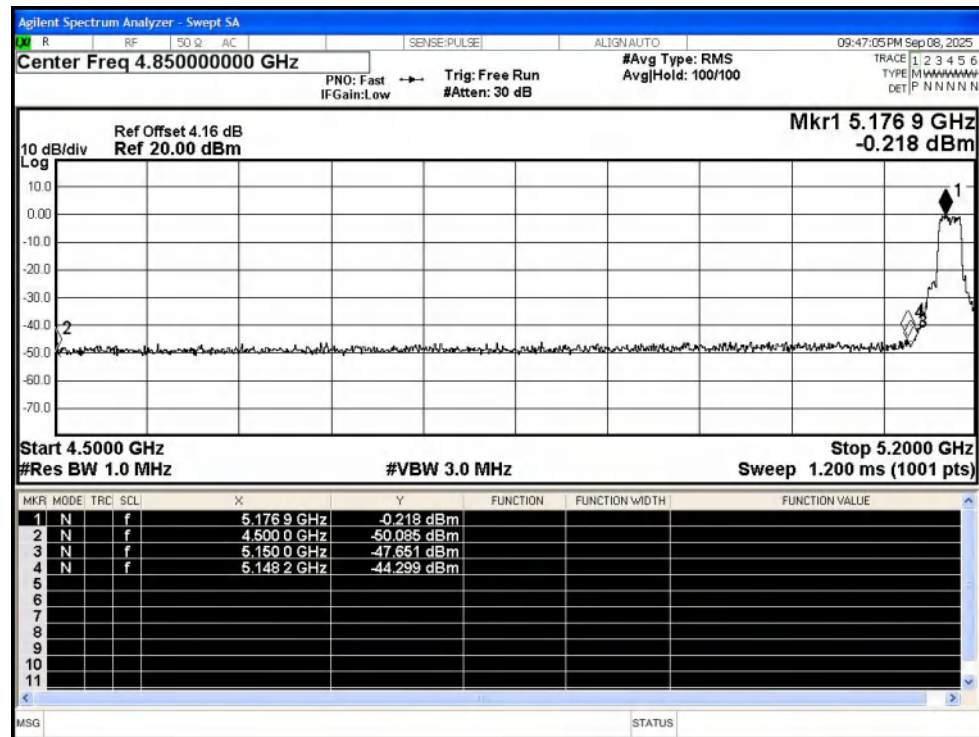
Add: No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China

Tel: +(86) 020-39166689 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

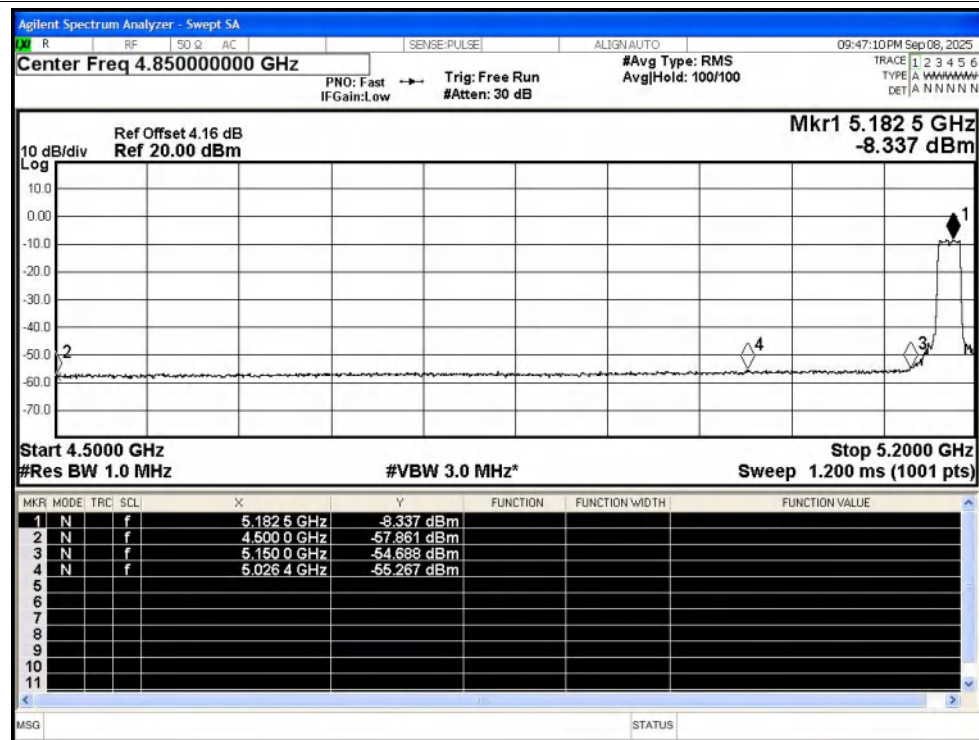
NVNT	ac20	5180	Ant1	4500	-49.82	2.43	-	47.84	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-57.43	2.43	0.12	40.35	Average	54	Pass
NVNT	ac20	5180	Ant1	5147.5	-43.23	2.43	-	54.43	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-54.15	2.43	0.12	43.63	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-45.16	2.43	-	52.50	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.47	2.43	0.12	43.31	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-50.29	2.43	-	47.37	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.19	2.43	0.12	40.59	Average	54	Pass
NVNT	ac20	5240	Ant1	5362.56	-46.53	2.43	-	51.13	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5391.36	-56.46	2.43	0.12	41.32	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-48.68	2.43	-	48.98	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.55	2.43	0.12	40.23	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-48.35	2.43	-	49.31	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-57.18	2.43	0.24	40.72	Average	54	Pass
NVNT	ac40	5190	Ant1	5146.78	-43.38	2.43	-	54.28	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-54.7	2.43	0.24	43.20	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-43.88	2.43	-	53.78	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-54.7	2.43	0.24	43.20	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-50.46	2.43	-	47.20	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.57	2.43	0.24	40.33	Average	54	Pass
NVNT	ac40	5230	Ant1	5439.75	-45.77	2.43	-	51.89	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5373.06	-56.32	2.43	0.24	41.58	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.12	2.43	-	48.54	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.27	2.43	0.24	40.63	Average	54	Pass

Test Graphs

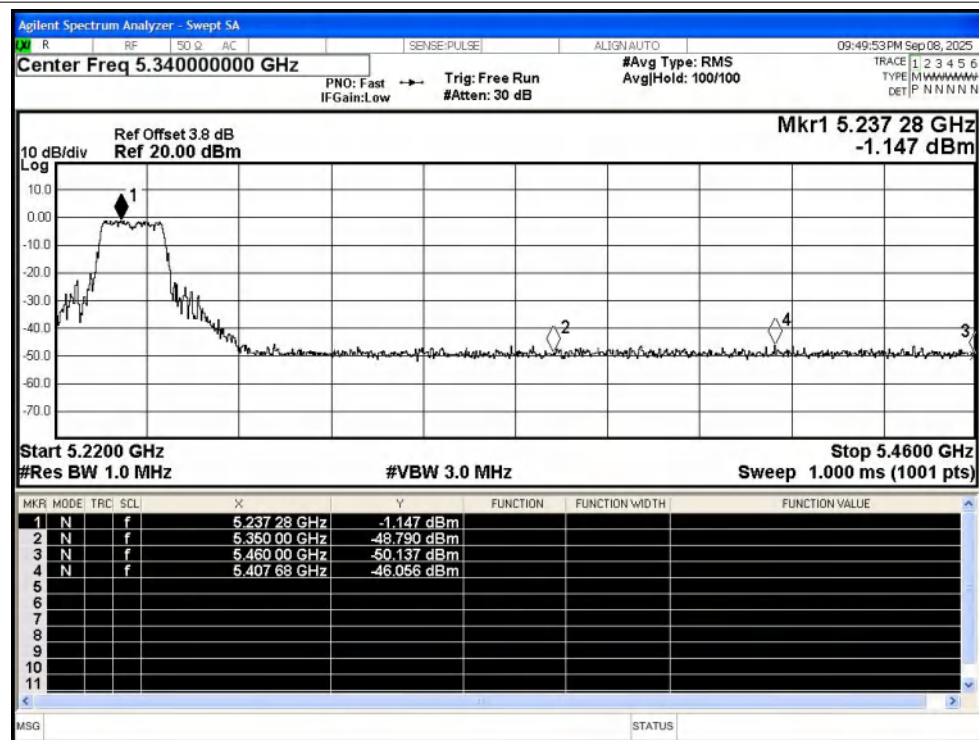
Restrict Band NVNT a 5180MHz Ant1 Peak



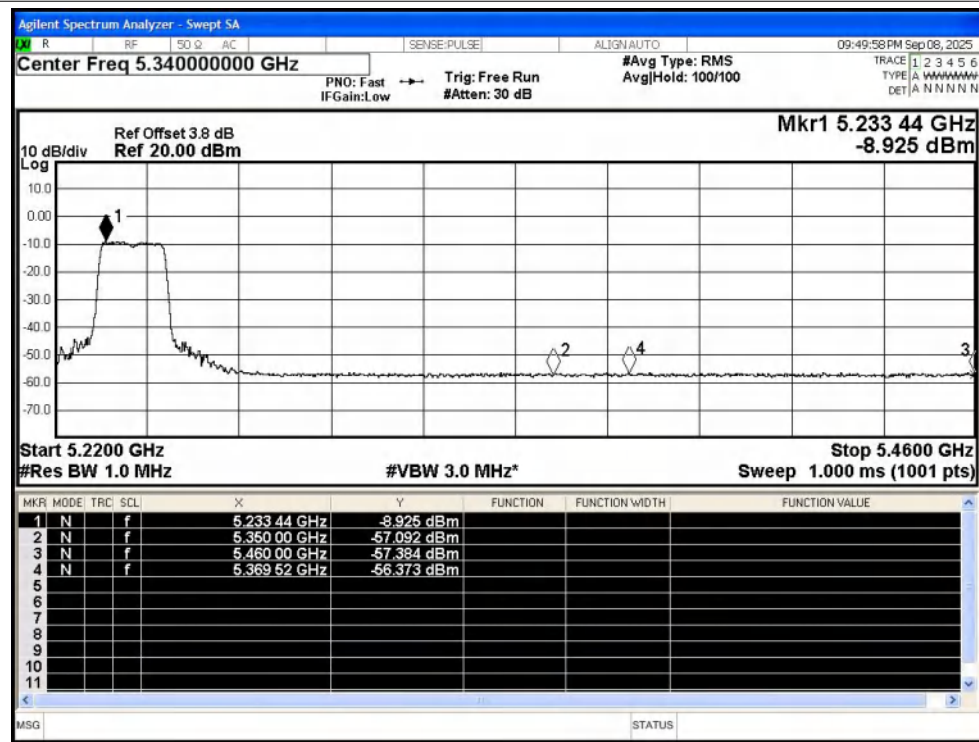
Restrict Band NVNT a 5180MHz Ant1 Average



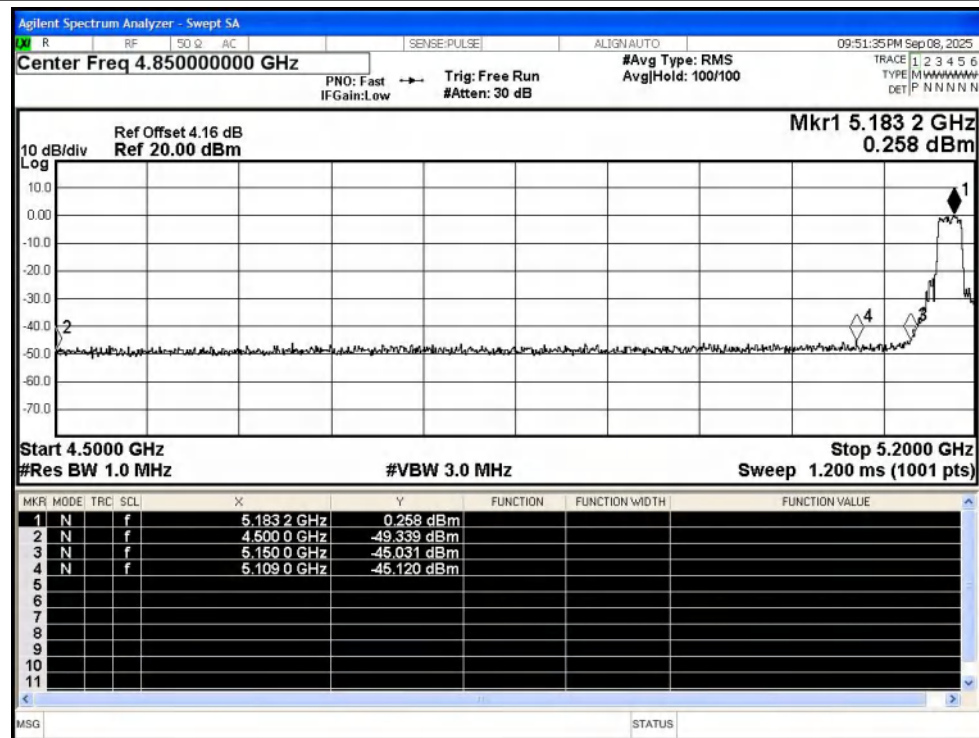
Restrict Band NVNT a 5240MHz Ant1 Peak



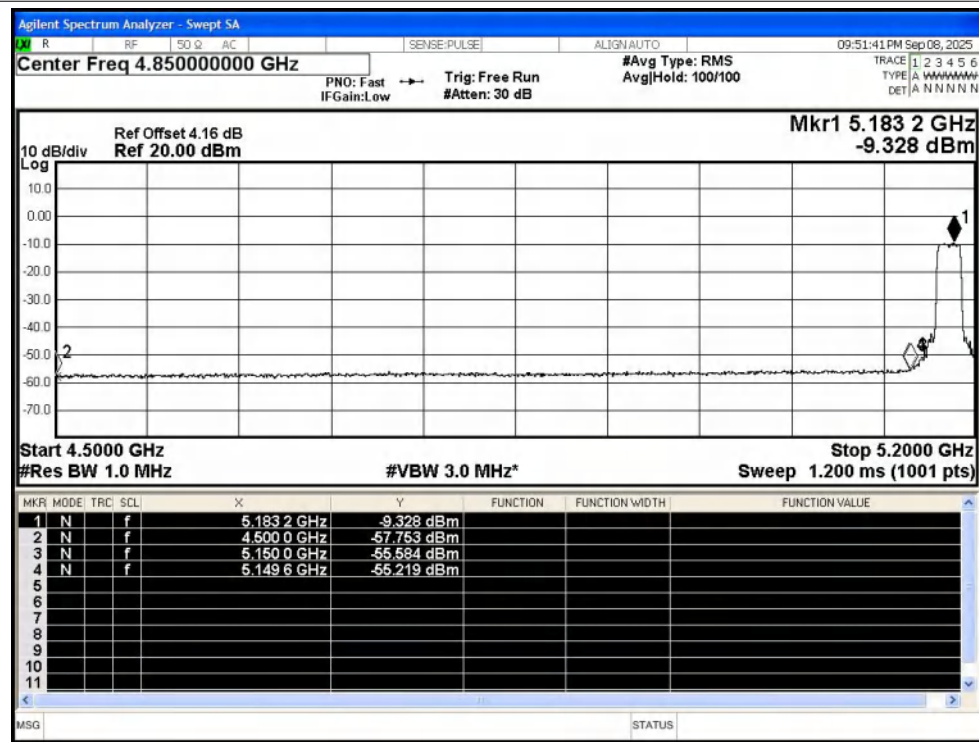
Restrict Band NVNT a 5240MHz Ant1 Average



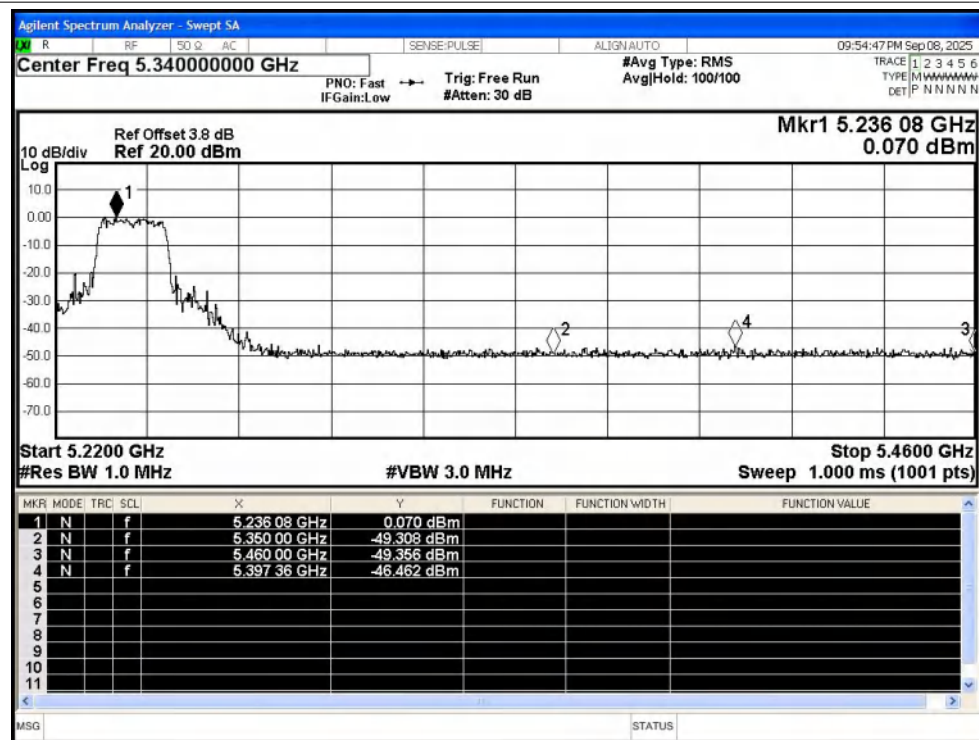
Restrict Band NVNT n20 5180MHz Ant1 Peak



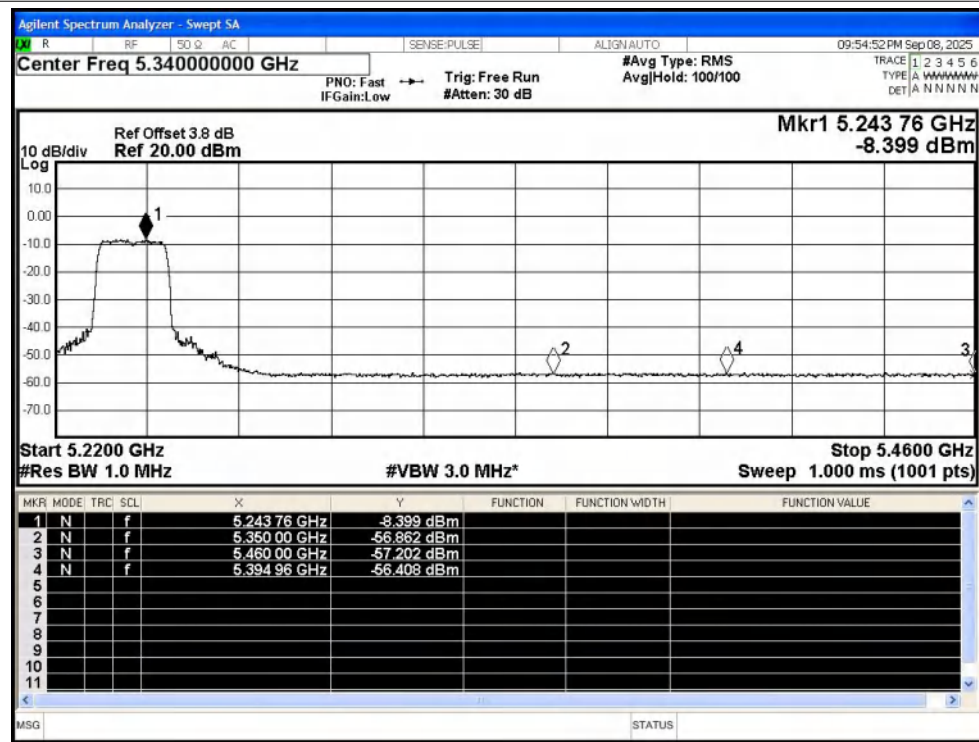
Restrict Band NVNT n20 5180MHz Ant1 Average



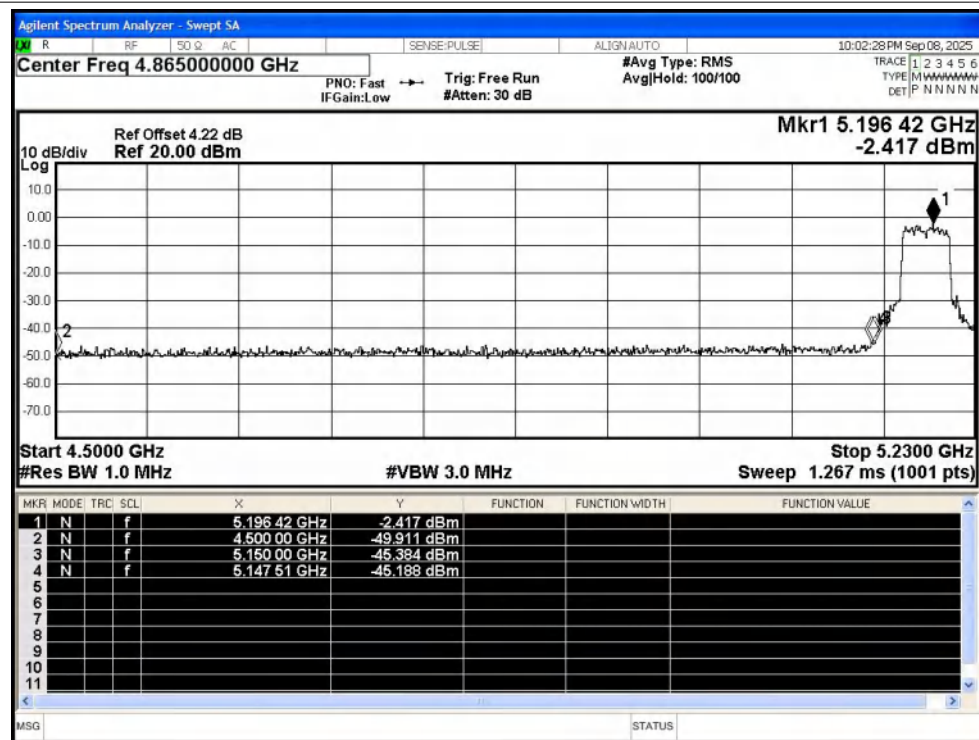
Restrict Band NVNT n20 5240MHz Ant1 Peak



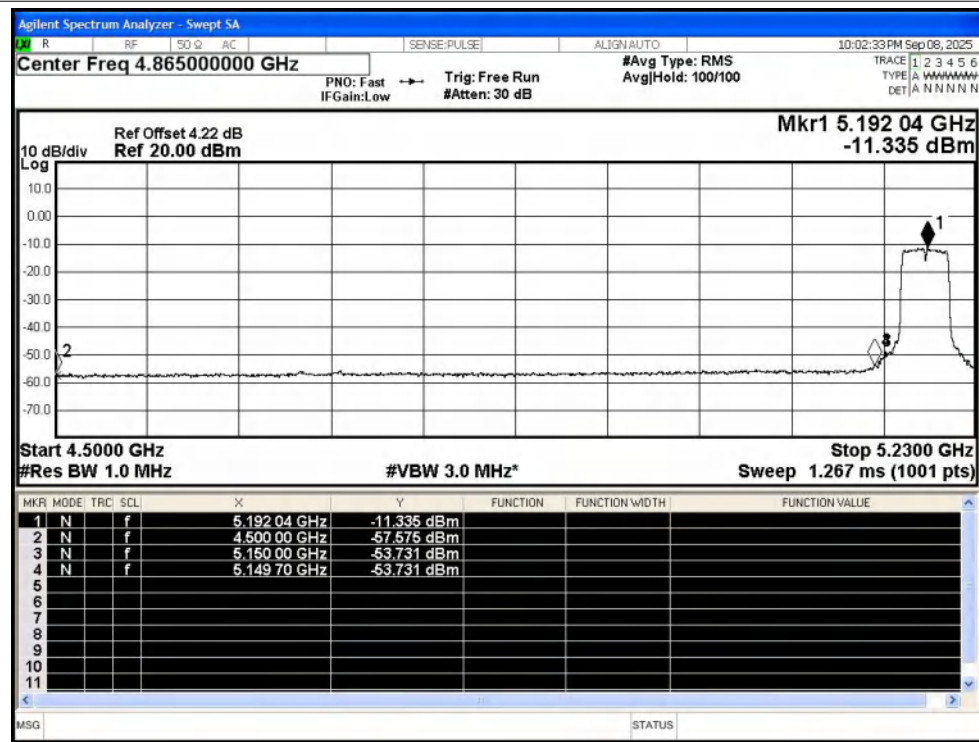
Restrict Band NVNT n20 5240MHz Ant1 Average



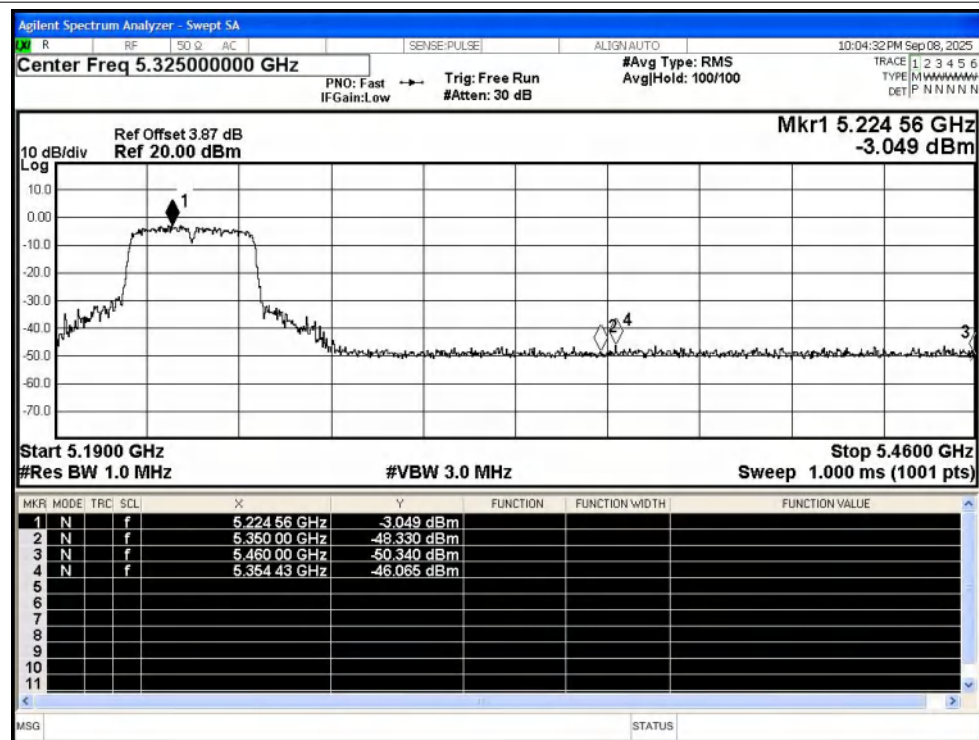
Restrict Band NVNT n40 5190MHz Ant1 Peak



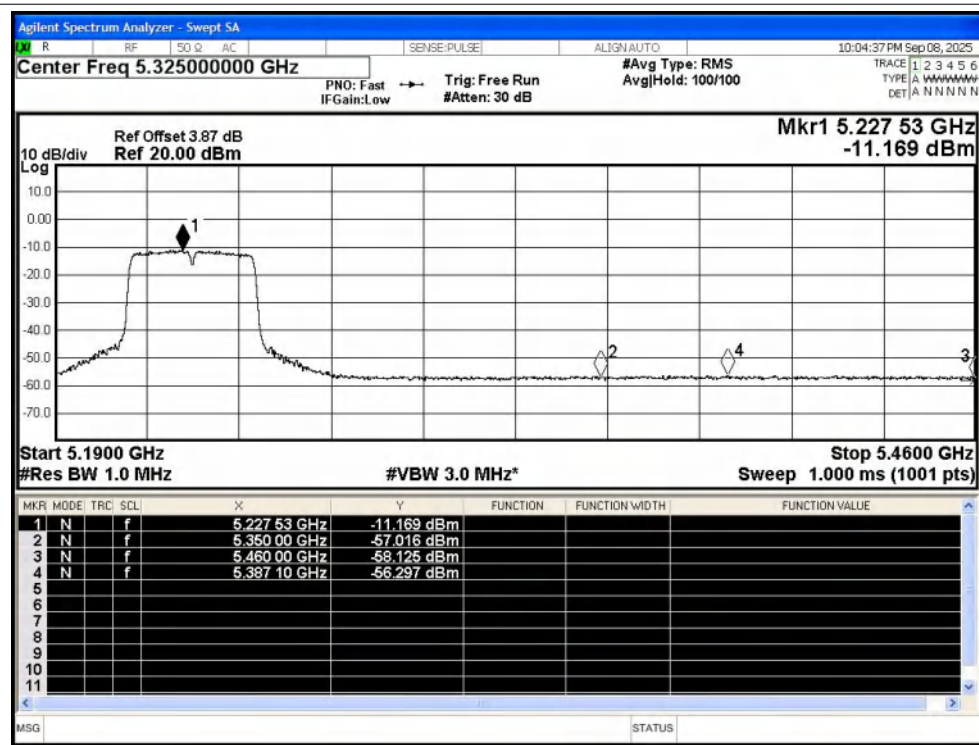
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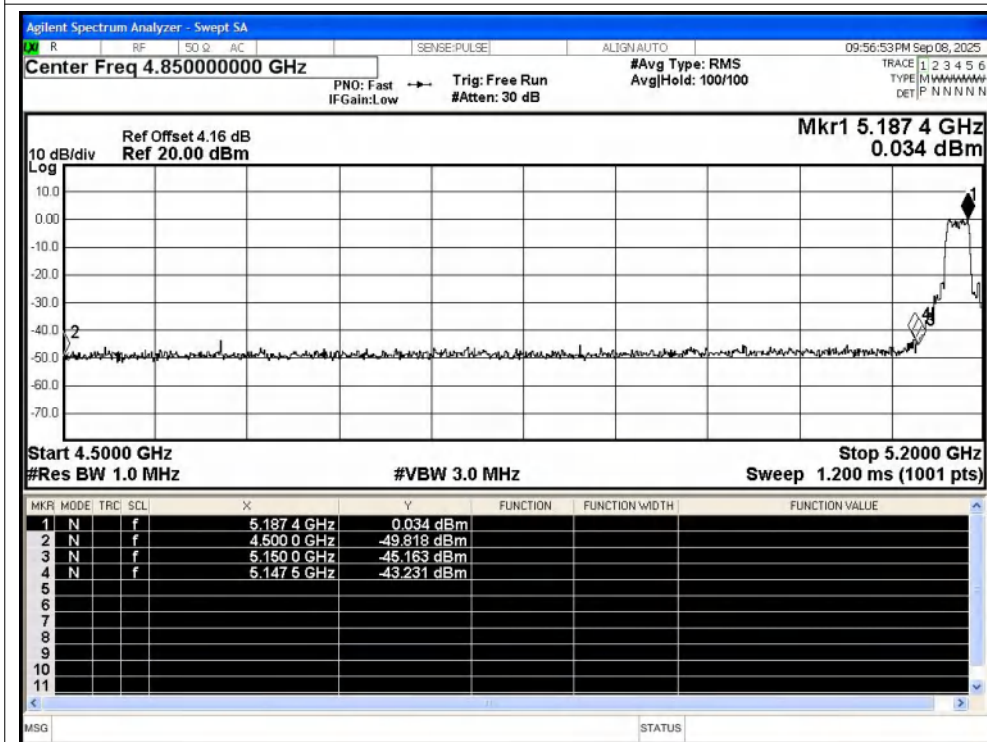
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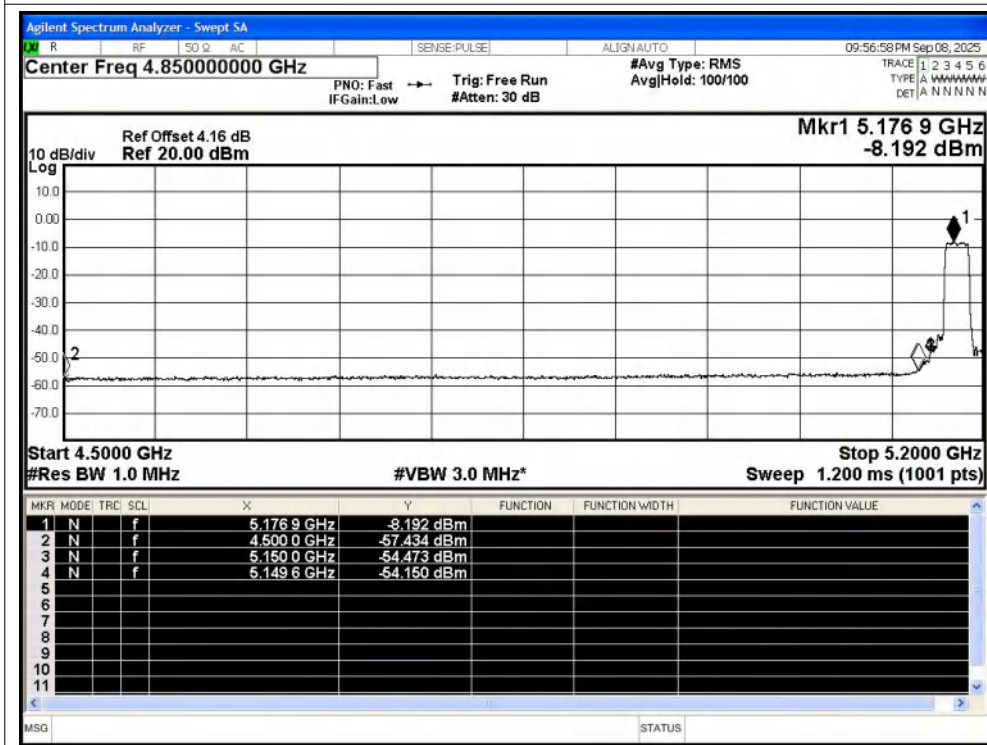
Restrict Band NVNT n40 5230MHz Ant1 Average



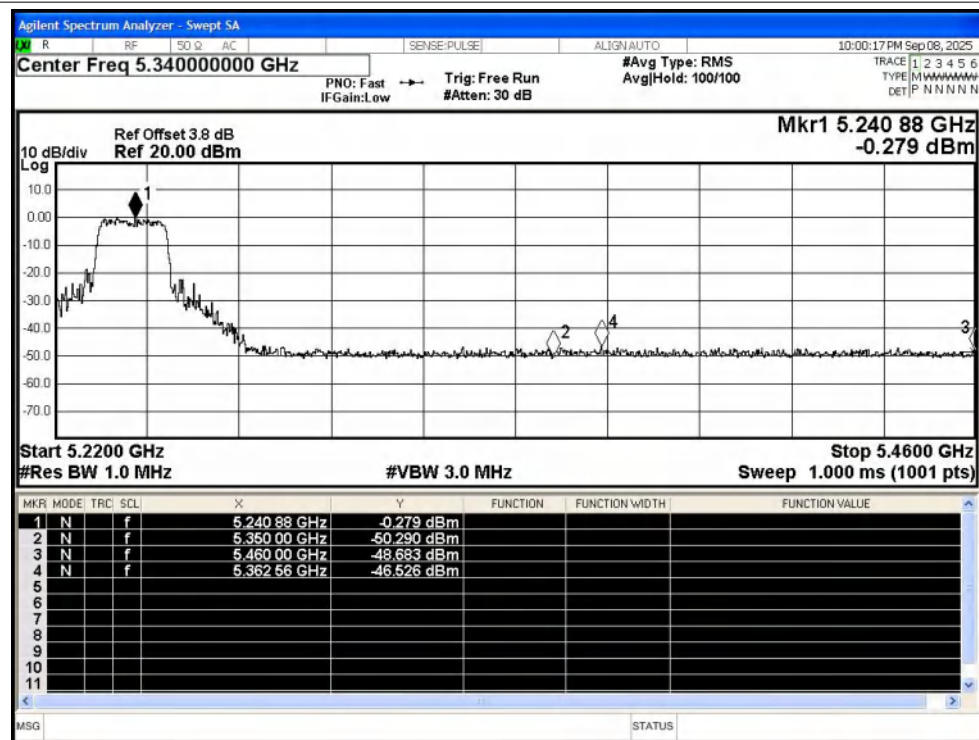
Restrict Band NVNT ac20 5180MHz Ant1 Peak



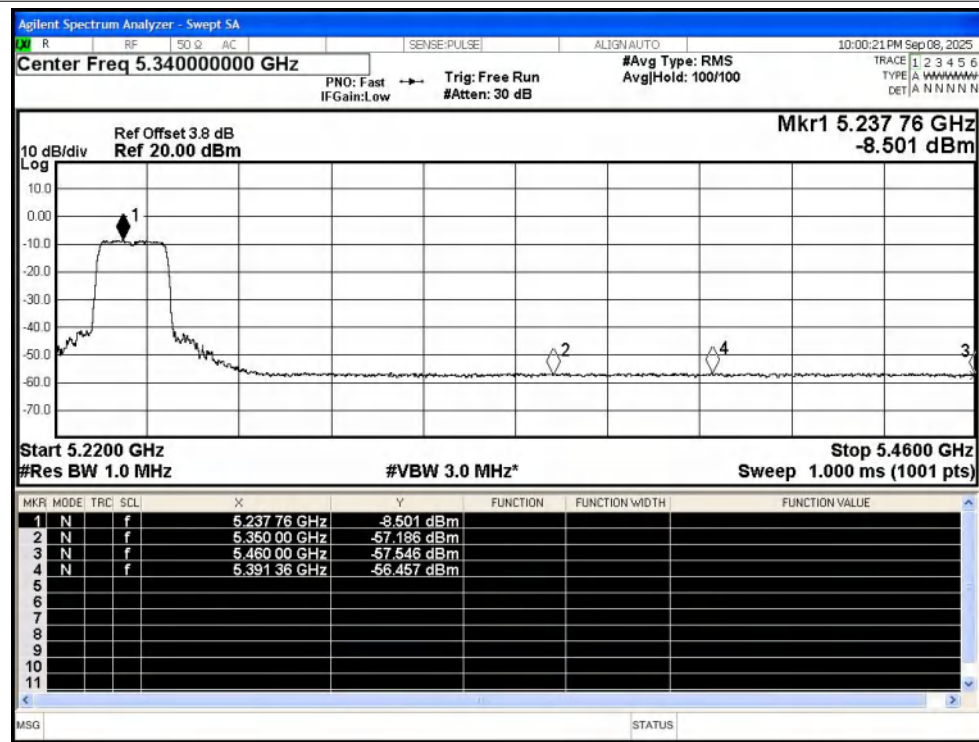
Restrict Band NVNT ac20 5180MHz Ant1 Average



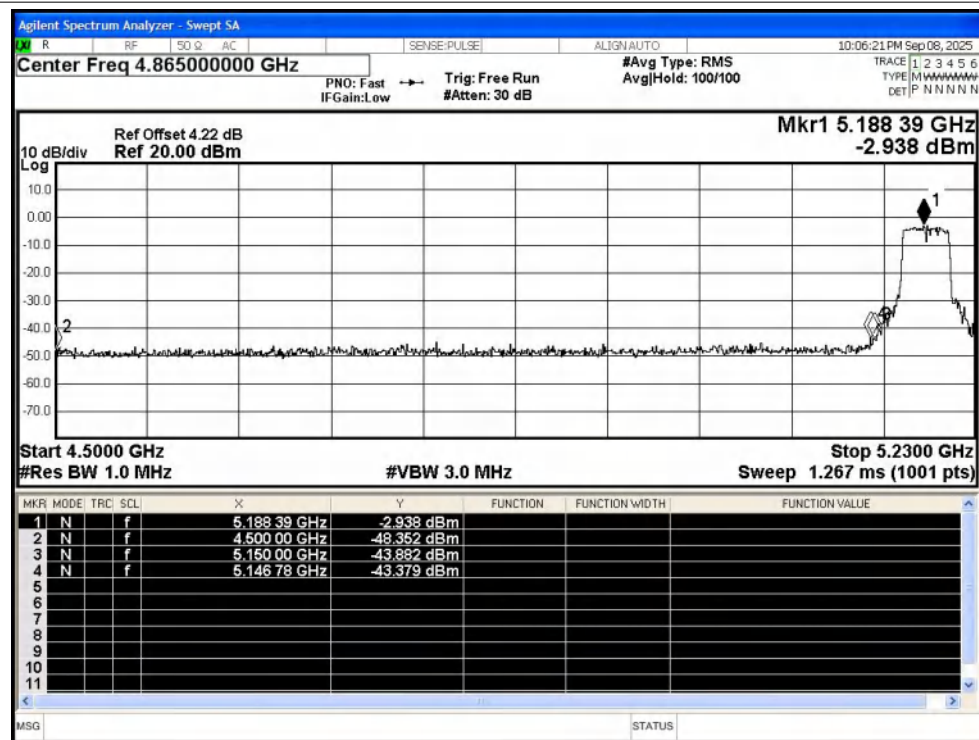
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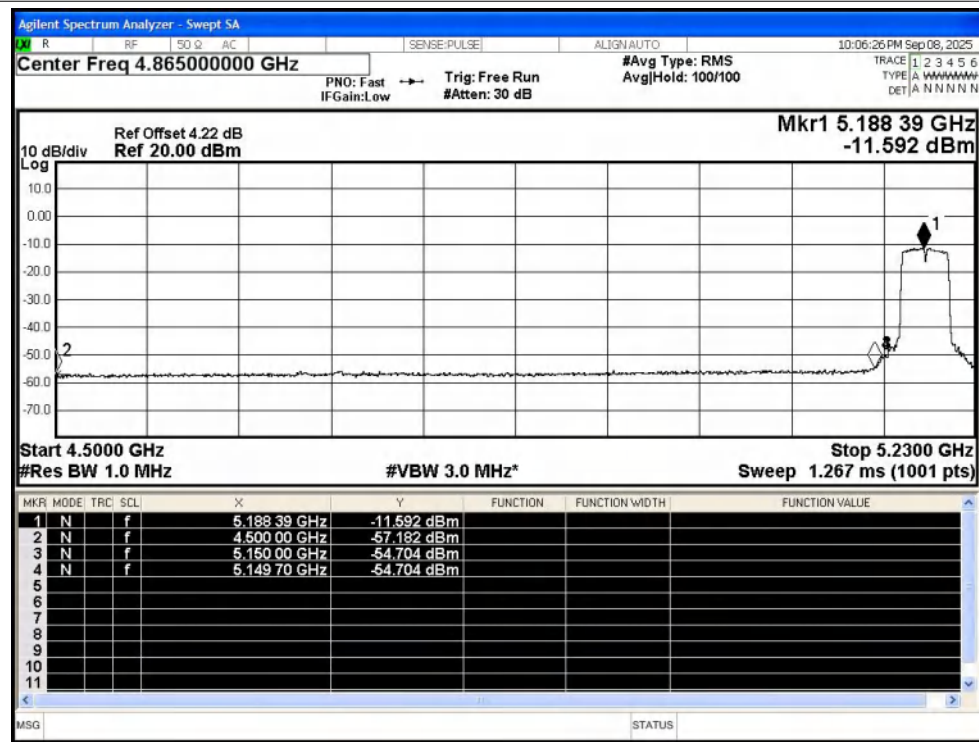
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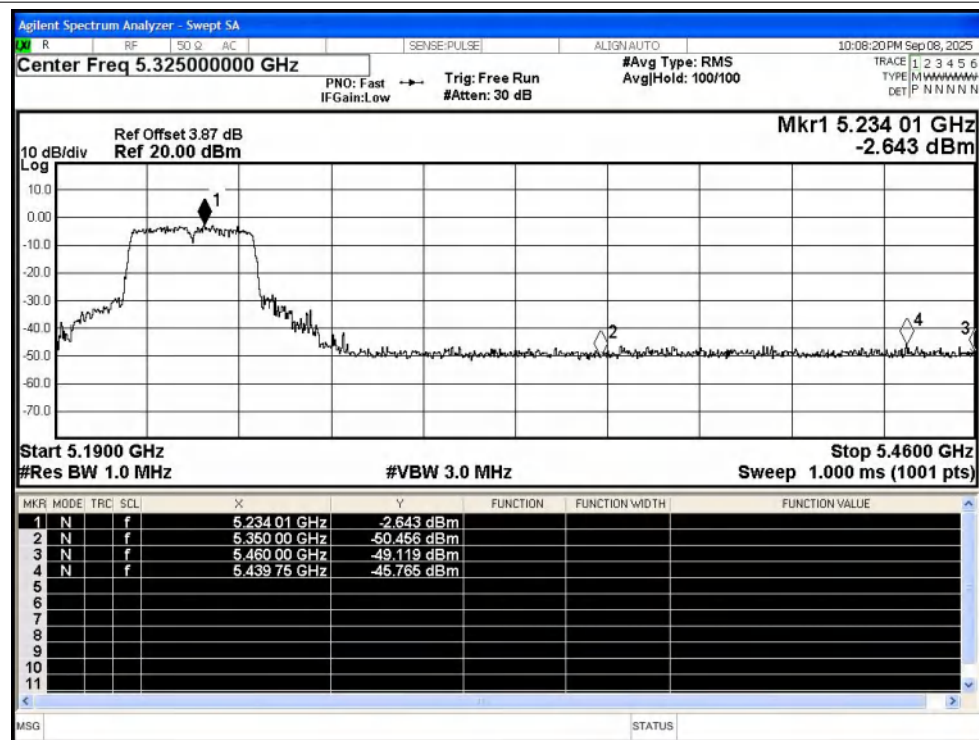
Restrict Band NVNT ac40 5190MHz Ant1 Peak



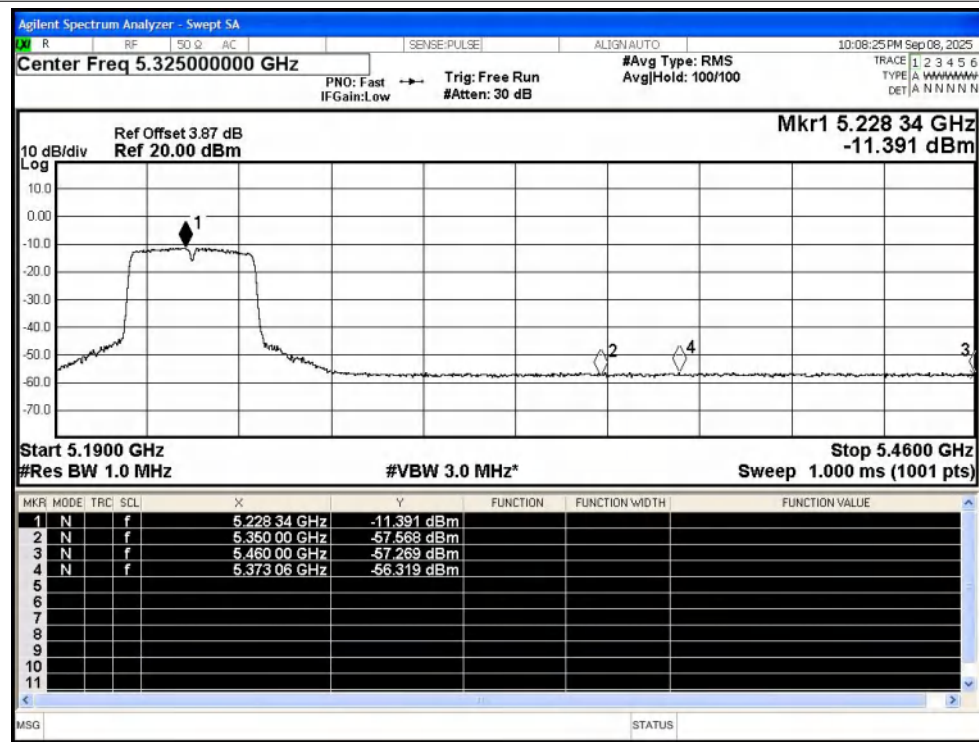
Restrict Band NVNT ac40 5190MHz Ant1 Average



Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 5230MHz Ant1 Average

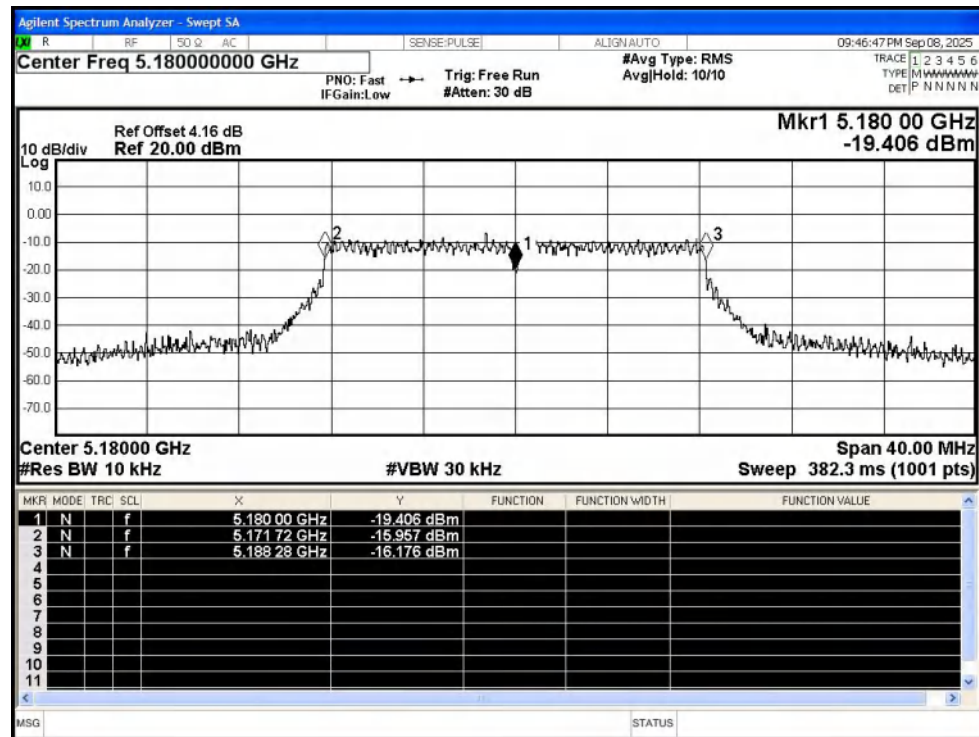


B.5 Frequency Stability

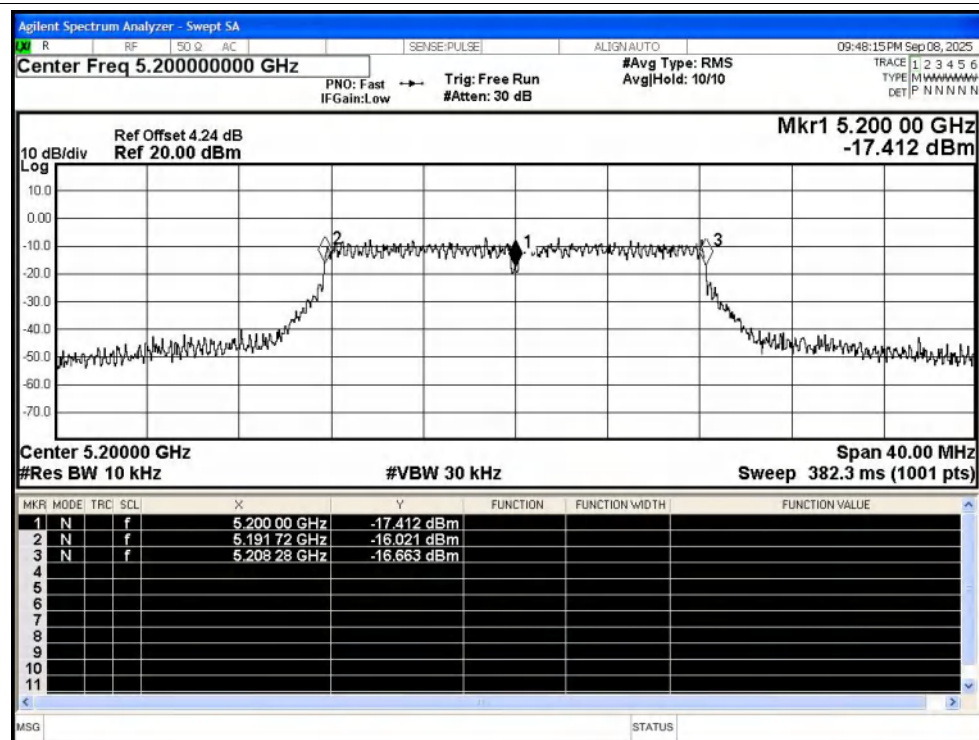
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5200	0	0	25	Pass
NVNT	n20	5240	Ant1	5240	0	0	25	Pass
NVNT	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	ac20	5200	Ant1	5200	0	0	25	Pass
NVNT	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass

Test Graphs

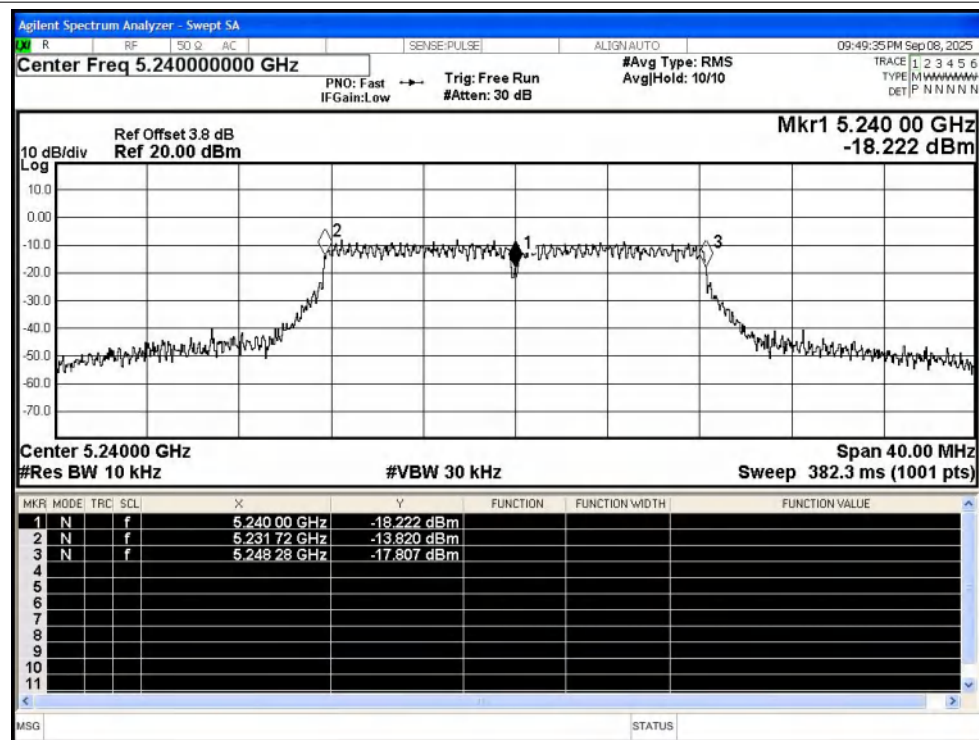
Freq. Stability NVNT a 5180MHz Ant1



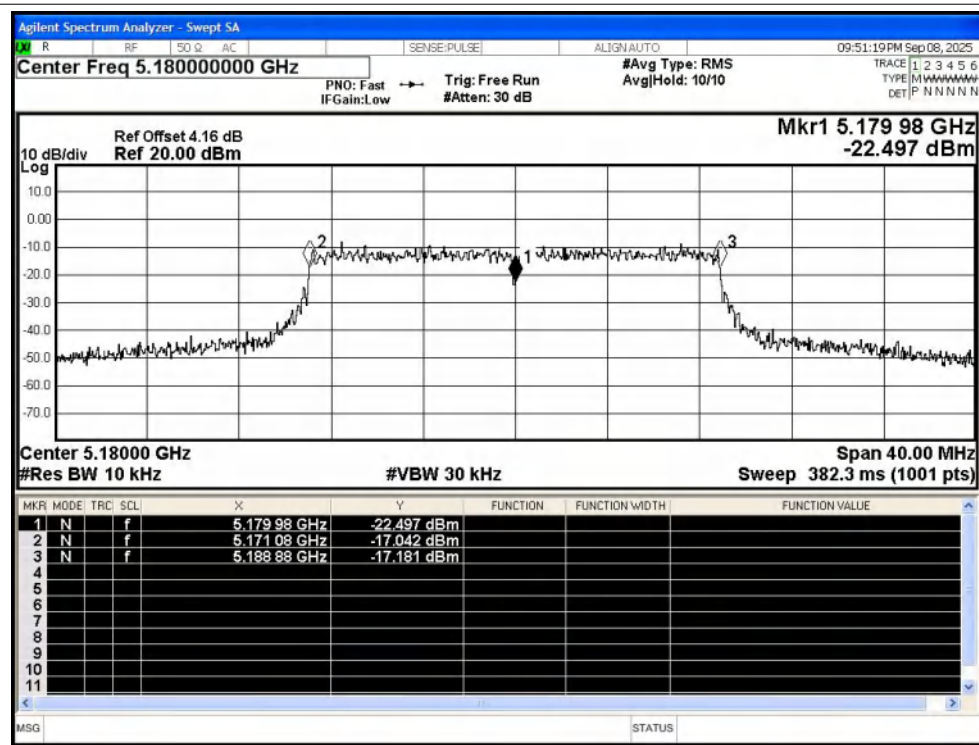
Freq. Stability NVNT a 5200MHz Ant1



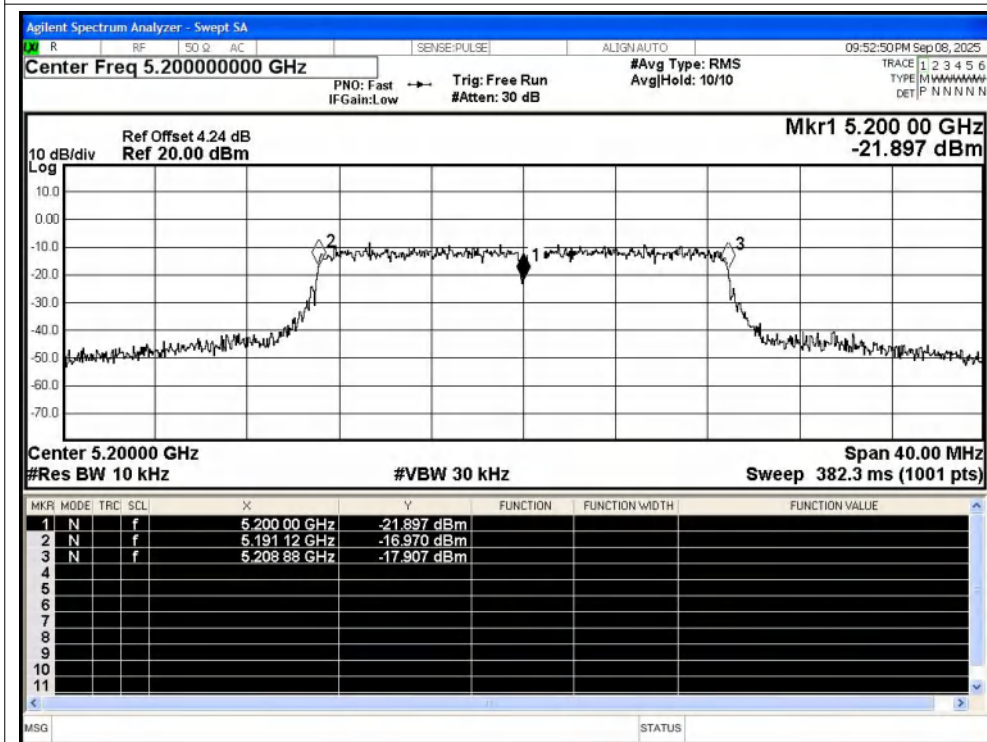
Freq. Stability NVNT a 5240MHz Ant1



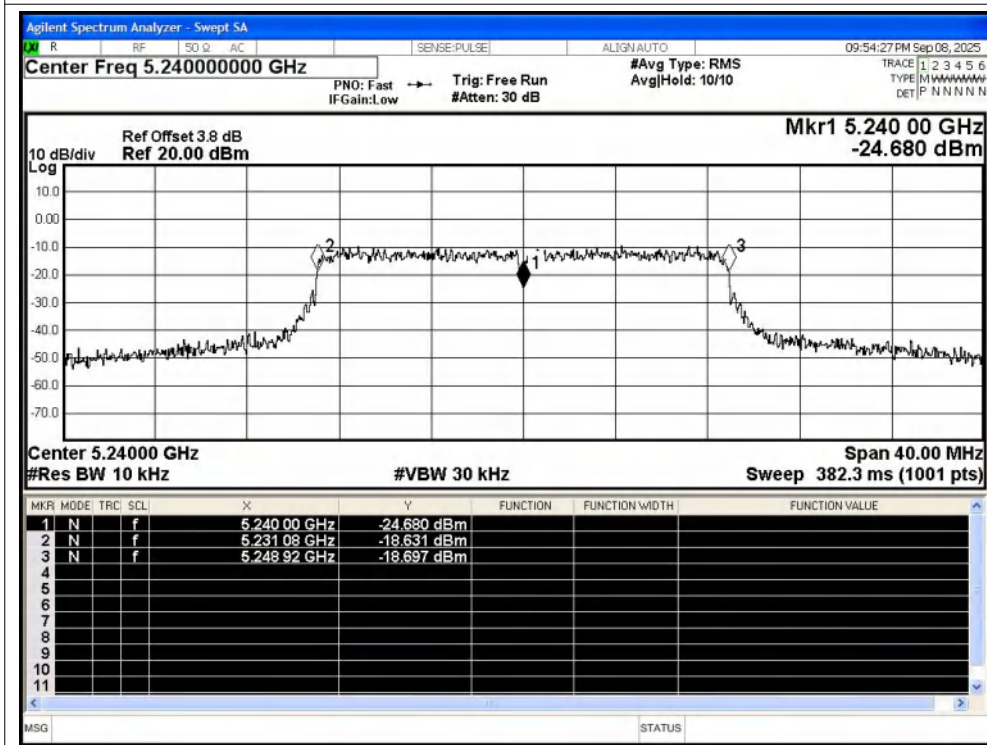
Freq. Stability NVNT n20 5180MHz Ant1



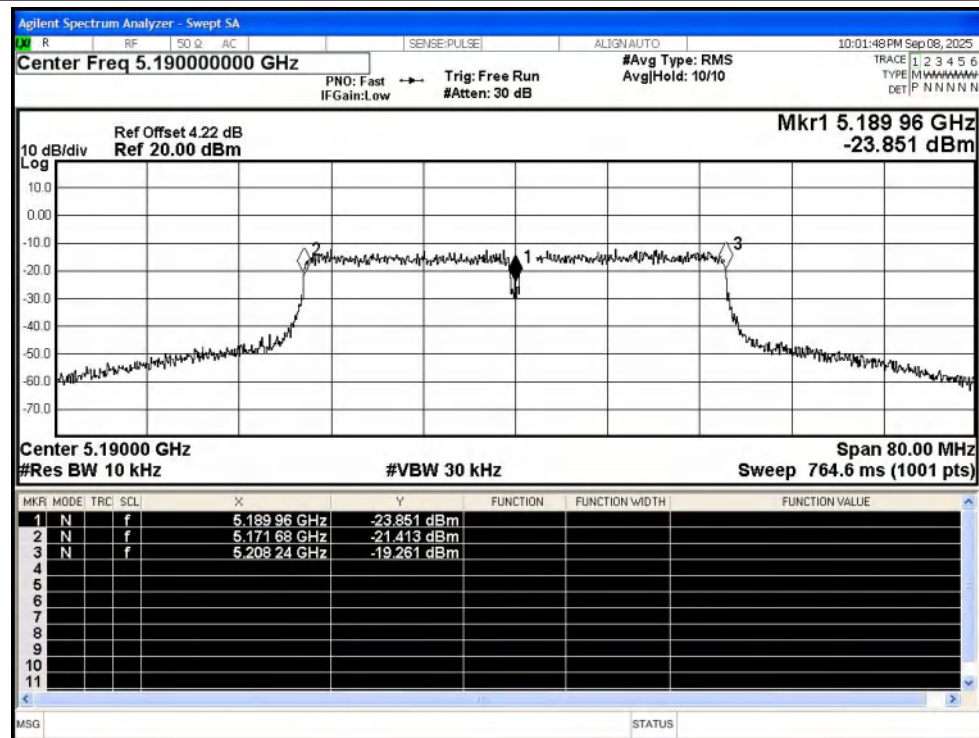
Freq. Stability NVNT n20 5200MHz Ant1



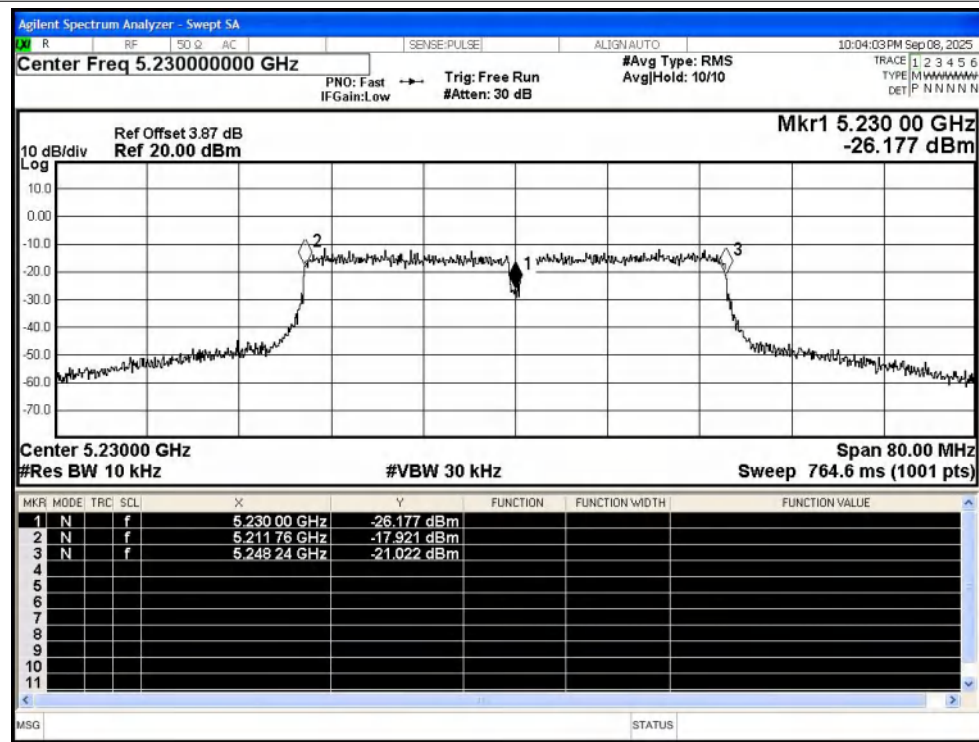
Freq. Stability NVNT n20 5240MHz Ant1



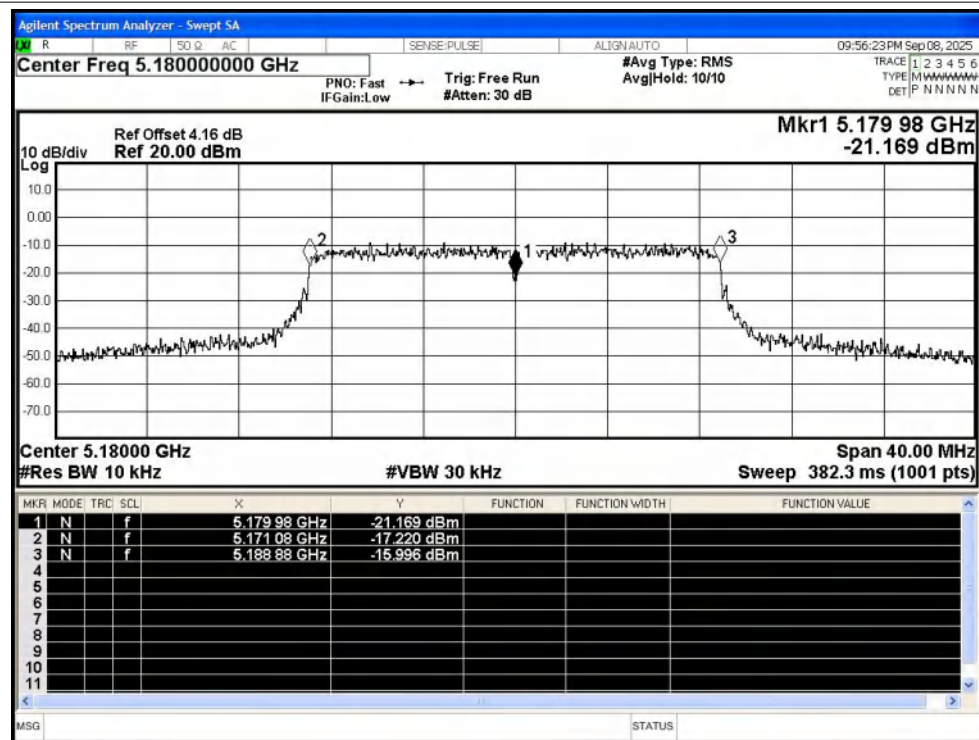
Freq. Stability NVNT n40 5190MHz Ant1



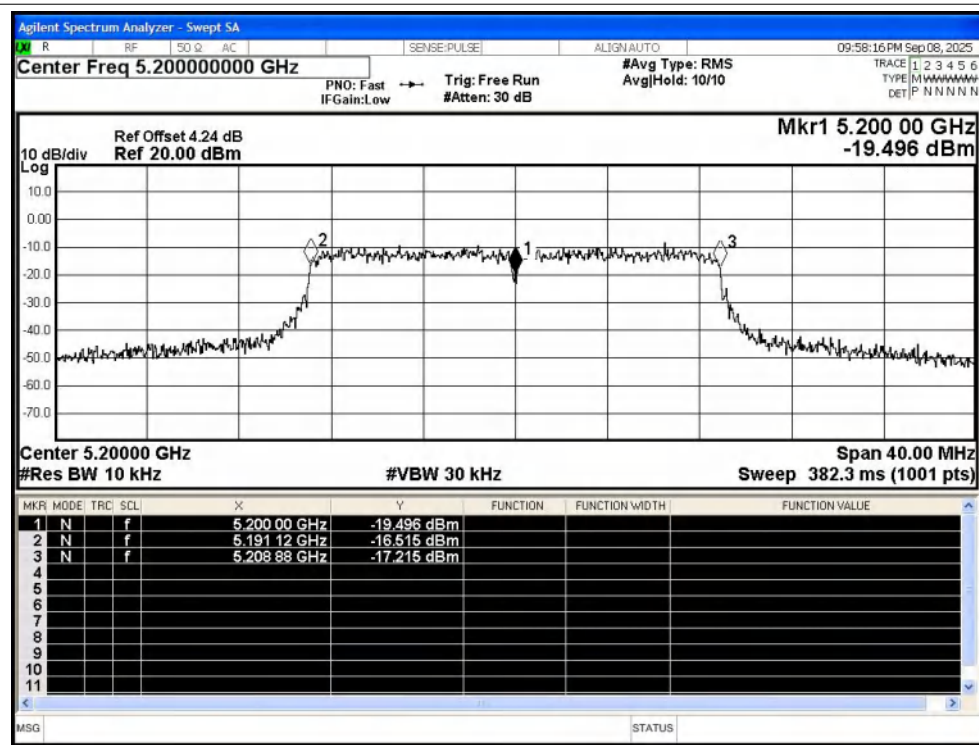
Freq. Stability NVNT n40 5230MHz Ant1



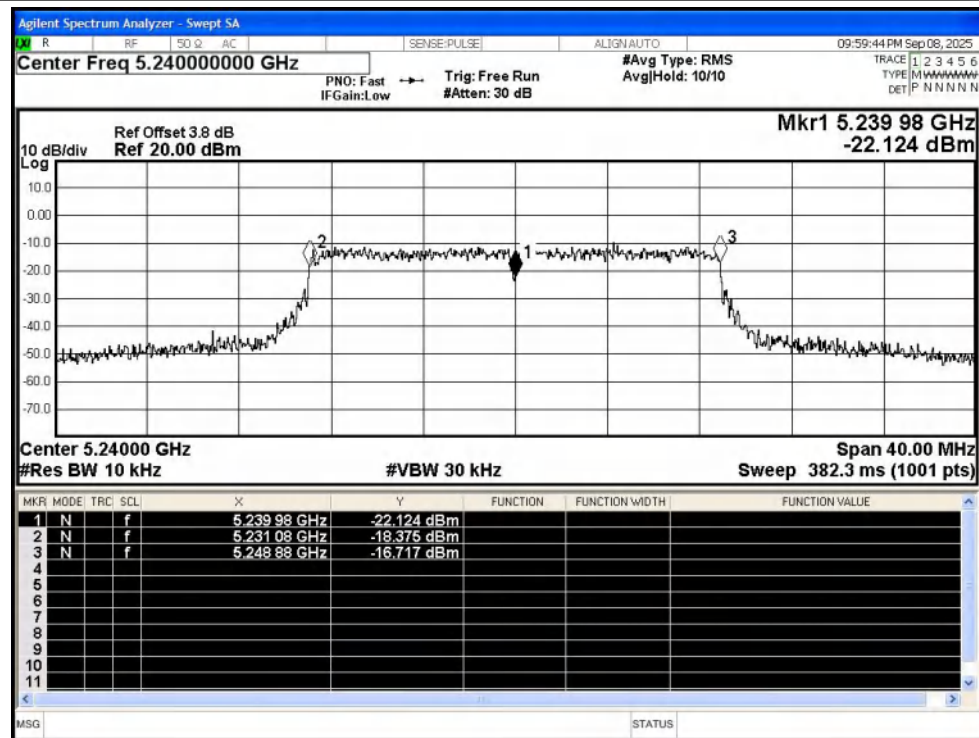
Freq. Stability NVNT ac20 5180MHz Ant1



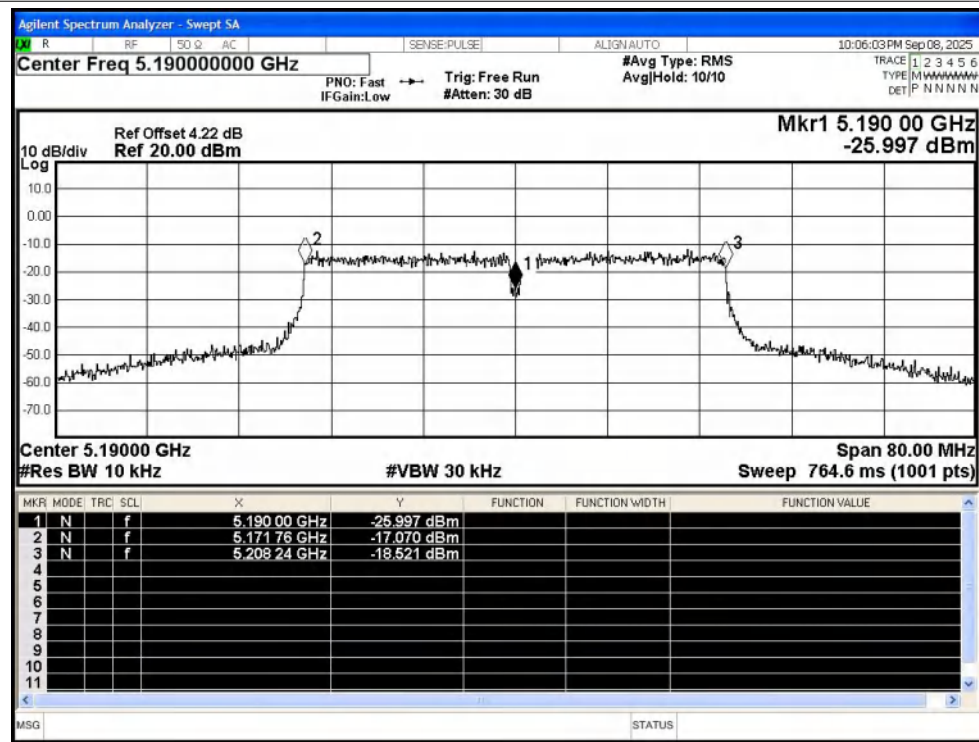
Freq. Stability NVNT ac20 5200MHz Ant1

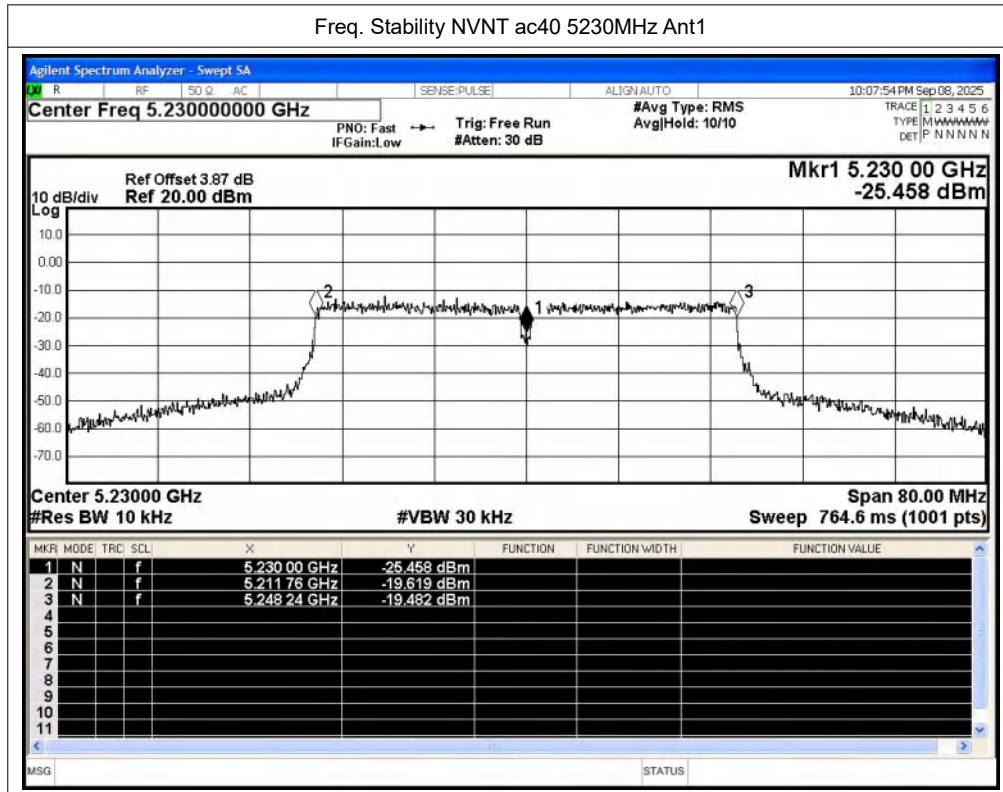


Freq. Stability NVNT ac20 5240MHz Ant1



Freq. Stability NVNT ac40 5190MHz Ant1



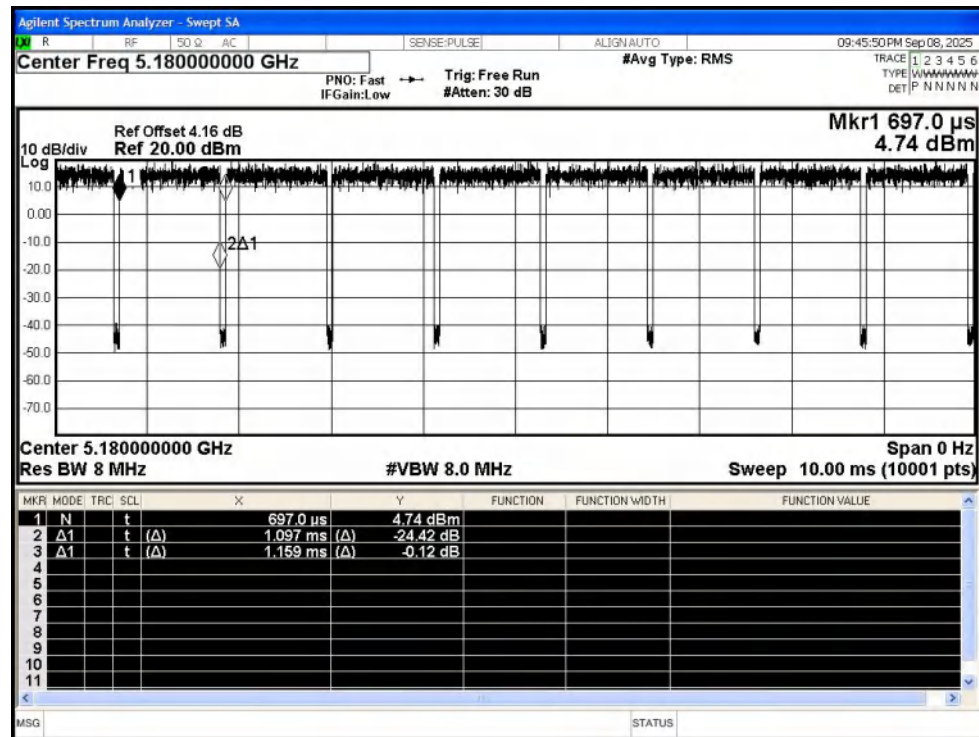


B.6 Duty Cycle

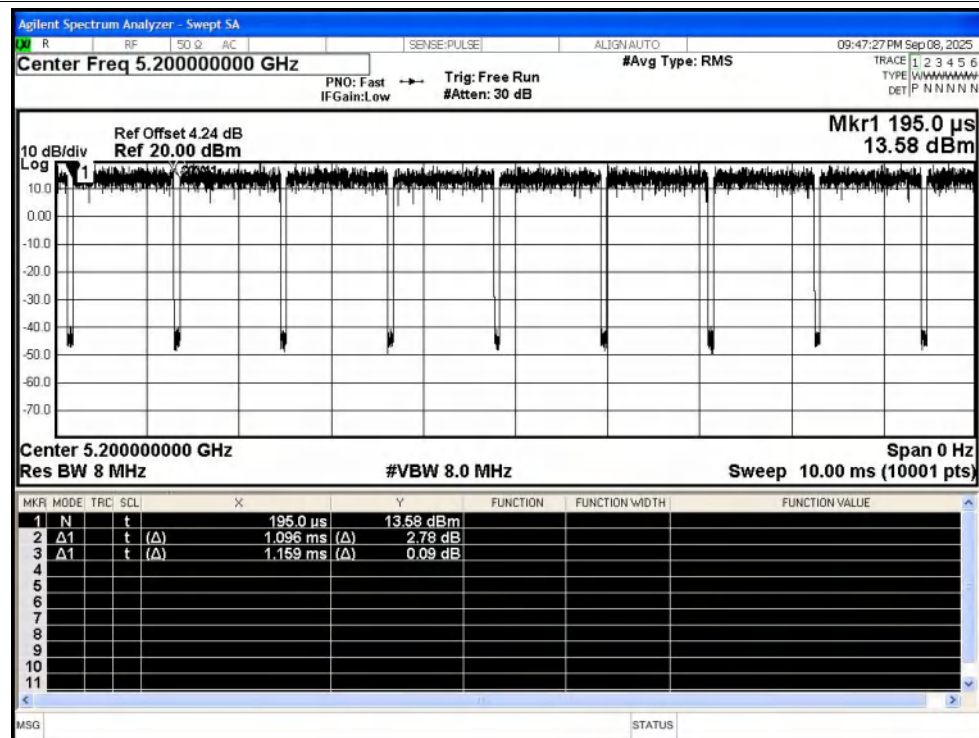
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.65	0.24	0.91
NVNT	a	5200	Ant1	94.56	0.24	0.91
NVNT	a	5240	Ant1	94.56	0.24	0.91
NVNT	n20	5180	Ant1	97.29	0.12	0.44
NVNT	n20	5200	Ant1	97.29	0.12	0.44
NVNT	n20	5240	Ant1	97.29	0.12	0.44
NVNT	n40	5190	Ant1	94.79	0.23	0.9
NVNT	n40	5230	Ant1	94.79	0.23	0.9
NVNT	ac20	5180	Ant1	97.3	0.12	0.44
NVNT	ac20	5200	Ant1	97.34	0.12	0.44
NVNT	ac20	5240	Ant1	97.34	0.12	0.44
NVNT	ac40	5190	Ant1	94.72	0.24	0.9
NVNT	ac40	5230	Ant1	94.72	0.24	0.9

Test Graphs

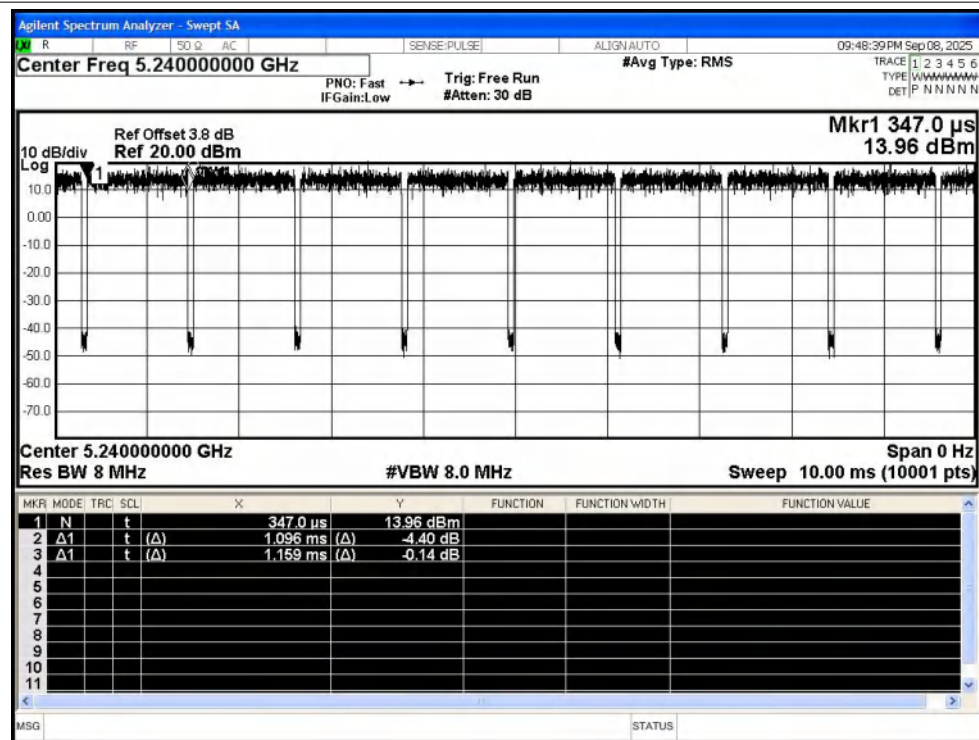
Duty Cycle NVNT a 5180MHz Ant1



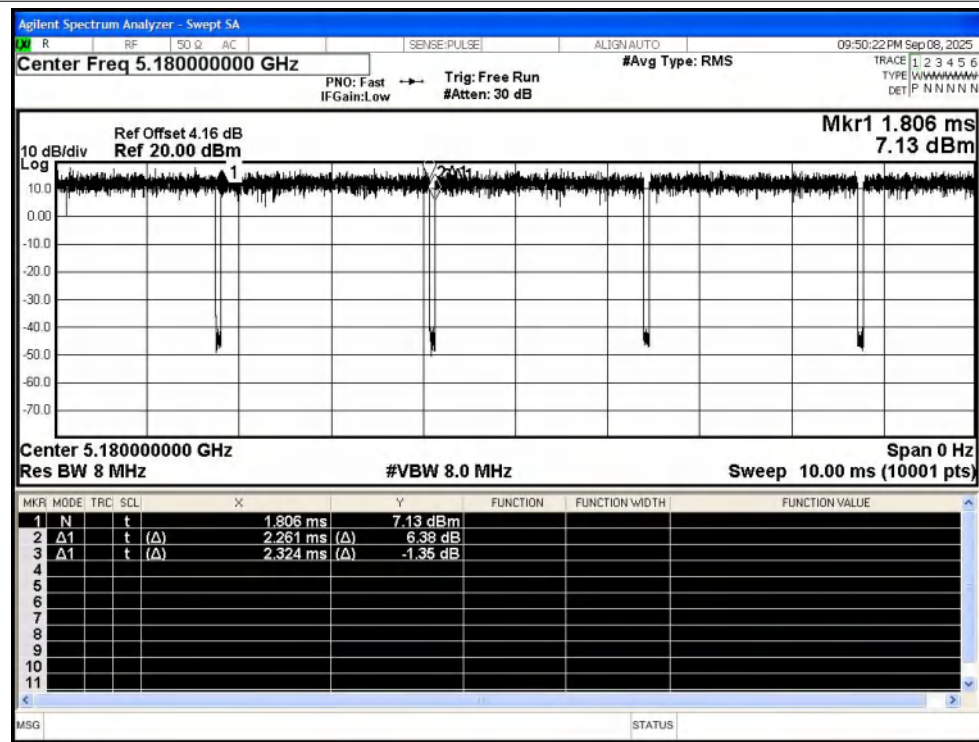
Duty Cycle NVNT a 5200MHz Ant1



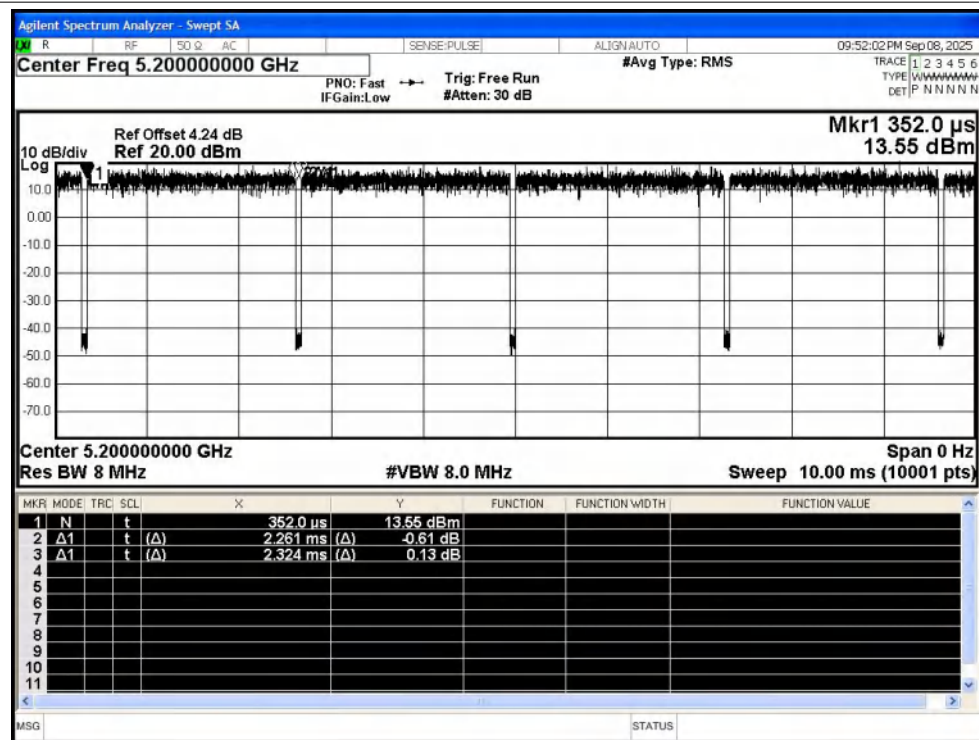
Duty Cycle NVNT a 5240MHz Ant1



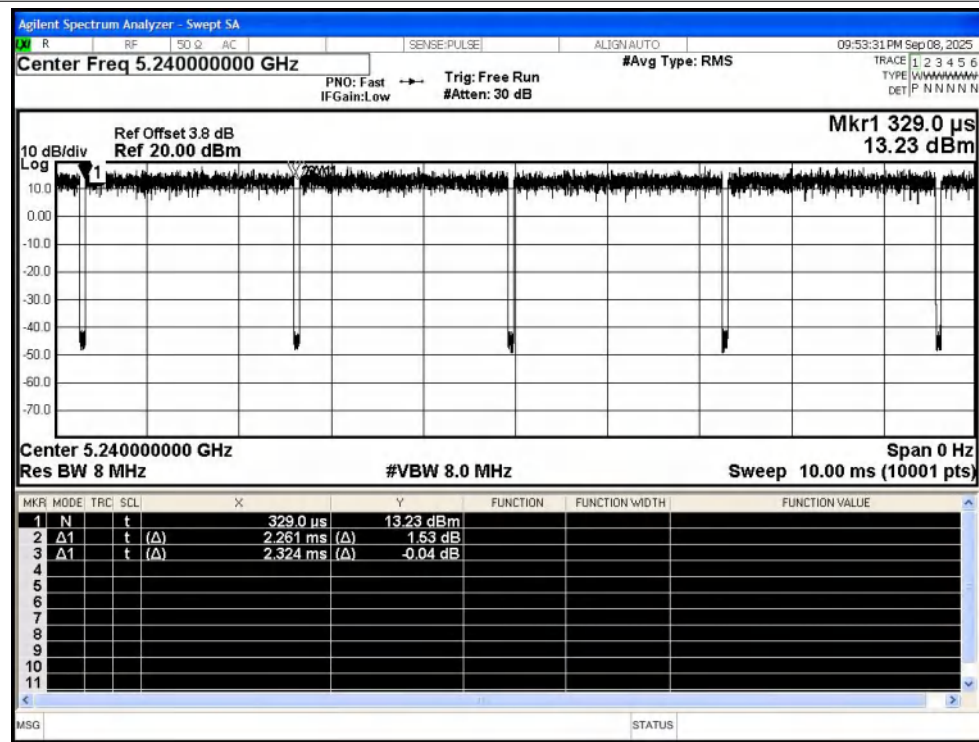
Duty Cycle NVNT n20 5180MHz Ant1



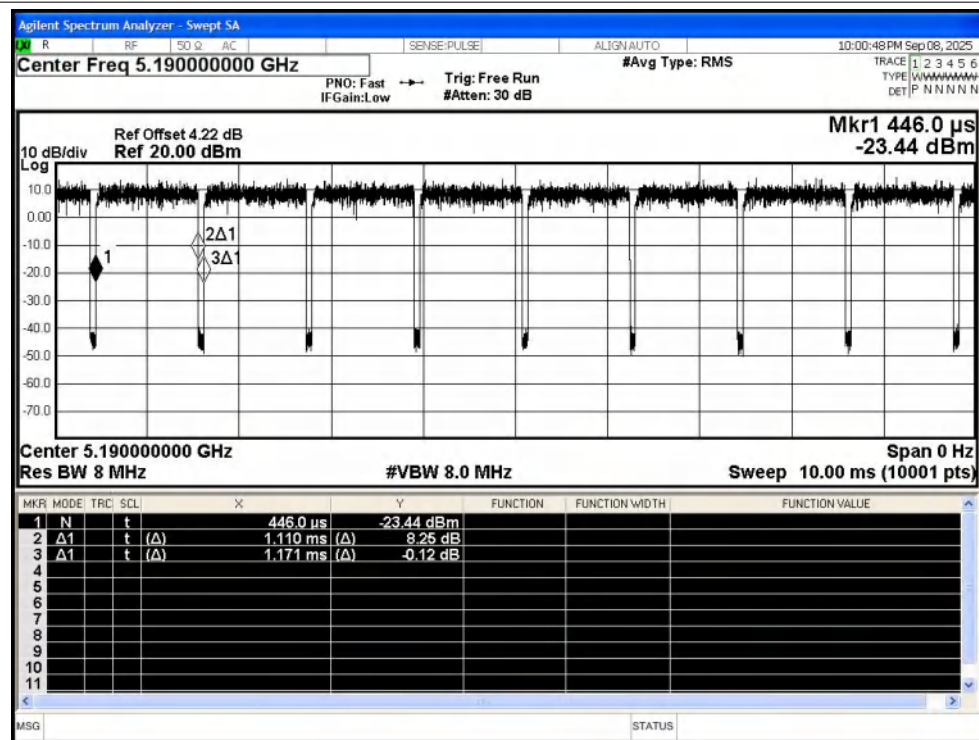
Duty Cycle NVNT n20 5200MHz Ant1



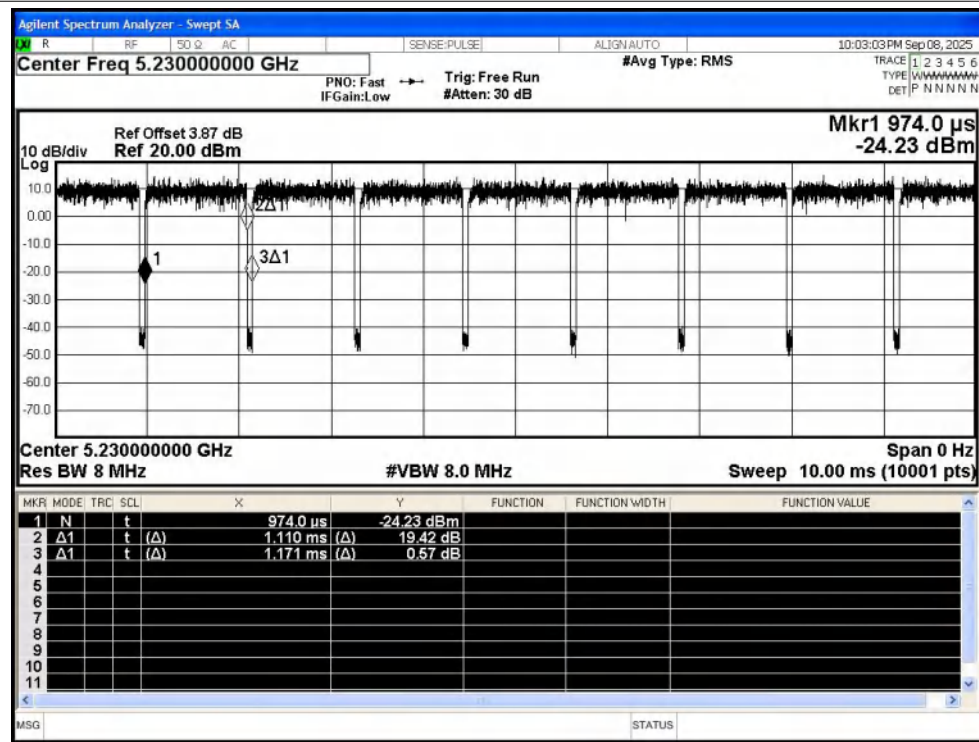
Duty Cycle NVNT n20 5240MHz Ant1



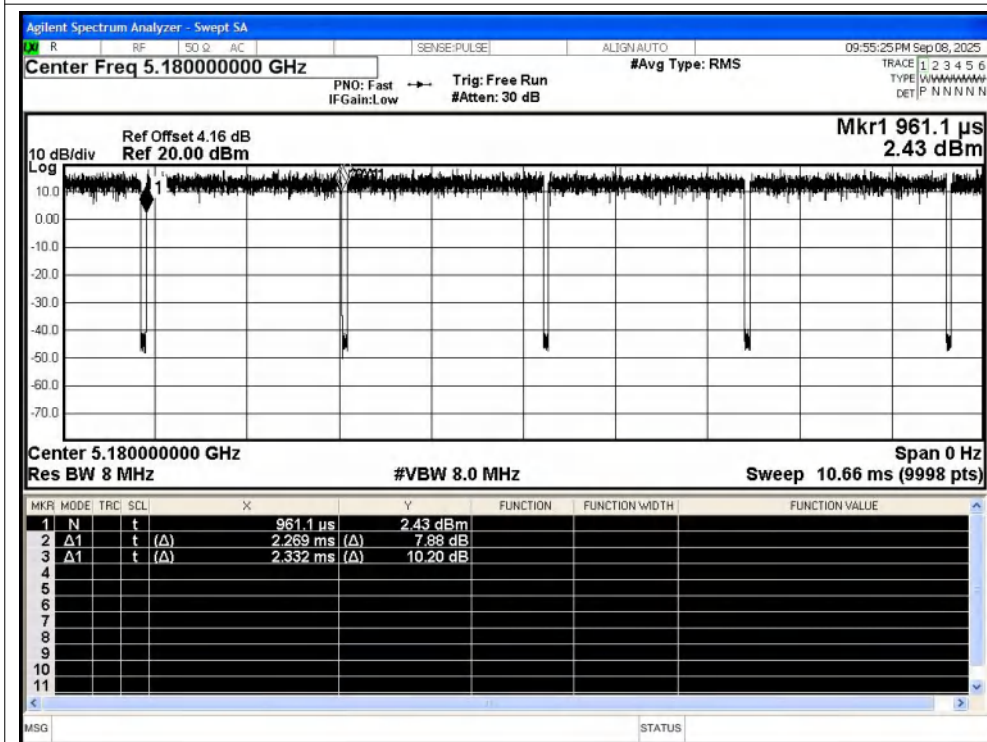
Duty Cycle NVNT n40 5190MHz Ant1



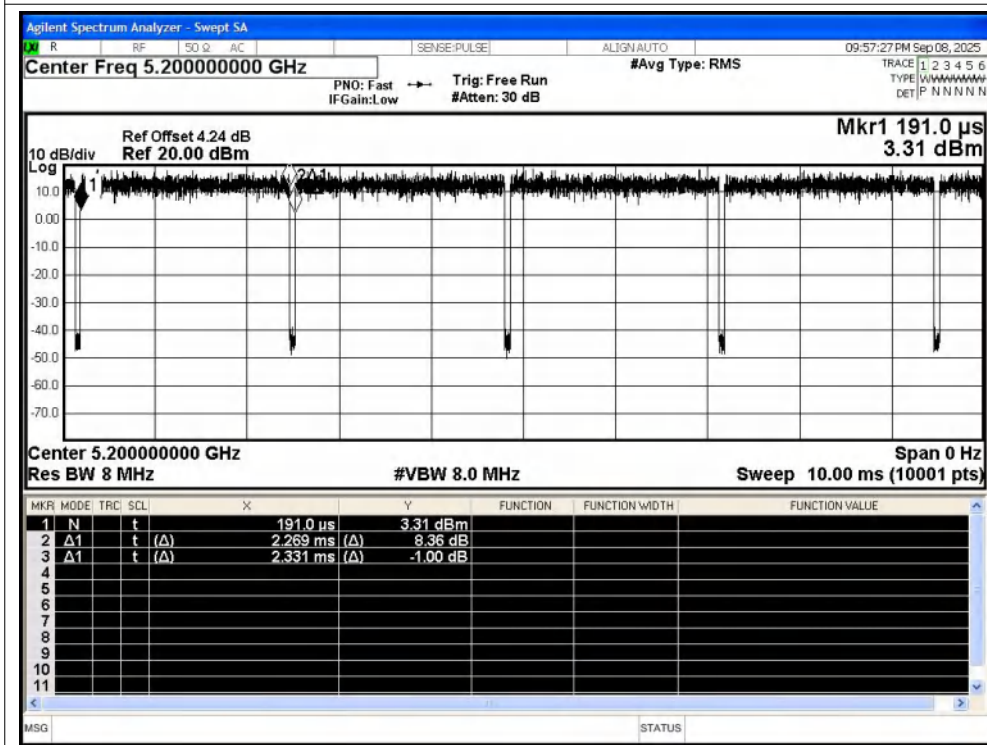
Duty Cycle NVNT n40 5230MHz Ant1



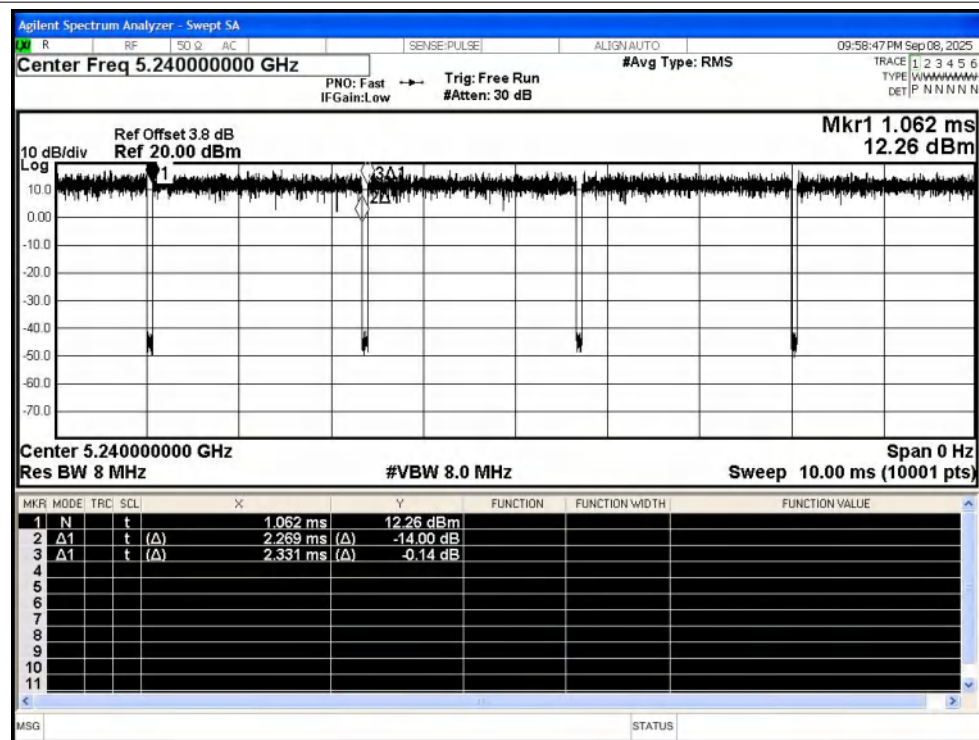
Duty Cycle NVNT ac20 5180MHz Ant1



Duty Cycle NVNT ac20 5200MHz Ant1



Duty Cycle NVNT ac20 5240MHz Ant1



Duty Cycle NVNT ac40 5190MHz Ant1

