



Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Gaming tablet

Test Model: MGS101-07

Environmental Conditions

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





B.1 -26dB Bandwidth

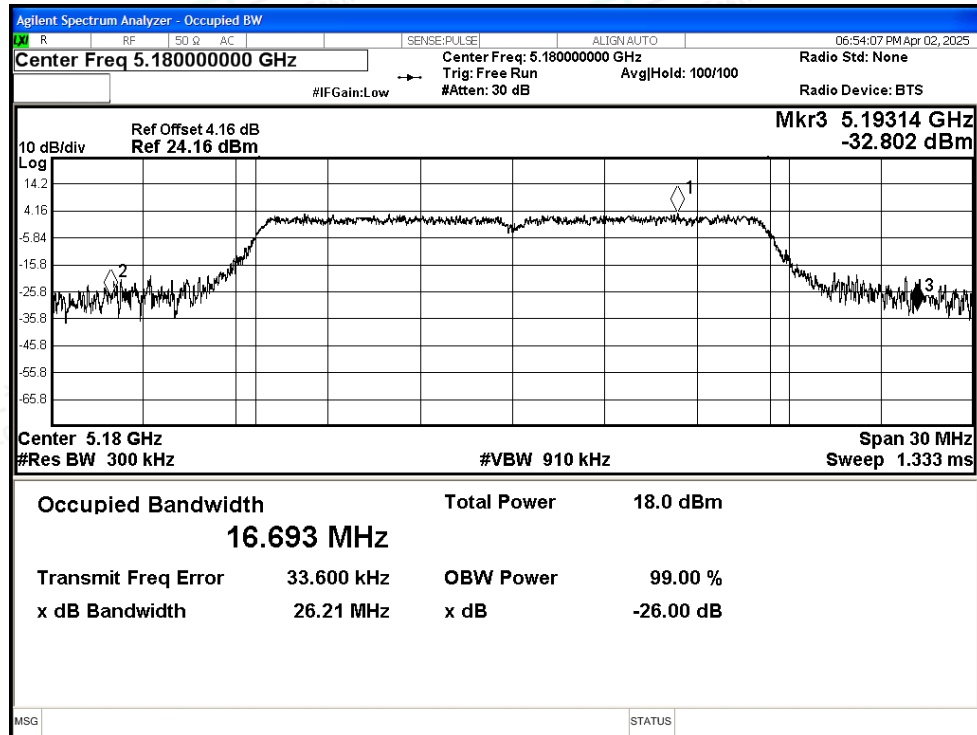
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	26.212	---	Pass
NVNT	a	5200	Ant1	27.723	---	Pass
NVNT	a	5240	Ant1	25.906	---	Pass
NVNT	n20	5180	Ant1	27.525	---	Pass
NVNT	n20	5200	Ant1	27.025	---	Pass
NVNT	n20	5240	Ant1	28.727	---	Pass
NVNT	n40	5190	Ant1	44.705	---	Pass
NVNT	n40	5230	Ant1	46.358	---	Pass
NVNT	ac20	5180	Ant1	29.182	---	Pass
NVNT	ac20	5200	Ant1	29.09	---	Pass
NVNT	ac20	5240	Ant1	26.744	---	Pass
NVNT	ac40	5190	Ant1	49.11	---	Pass
NVNT	ac40	5230	Ant1	44.239	---	Pass
NVNT	ac80	5210	Ant1	87.327	---	Pass



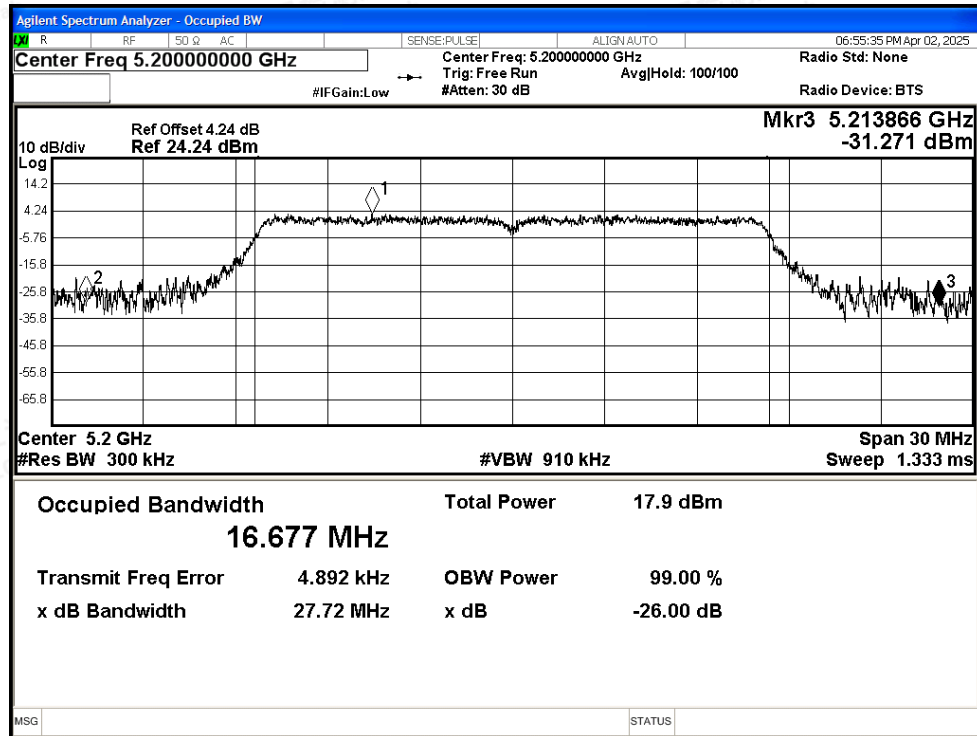


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1

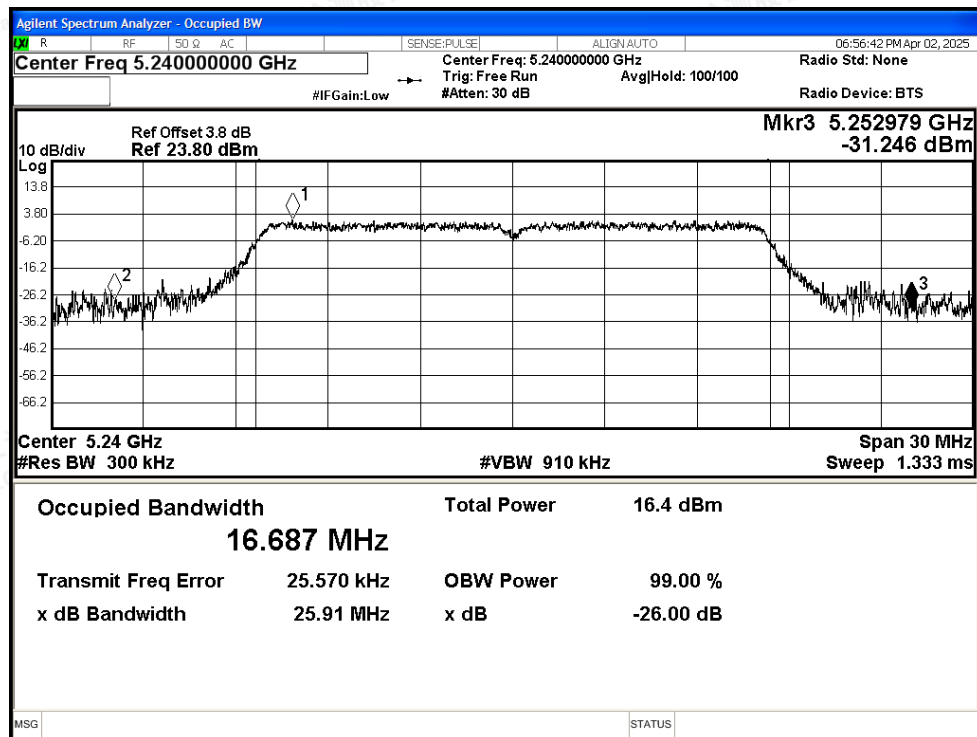


-26dB Bandwidth NVNT a 5200MHz Ant1

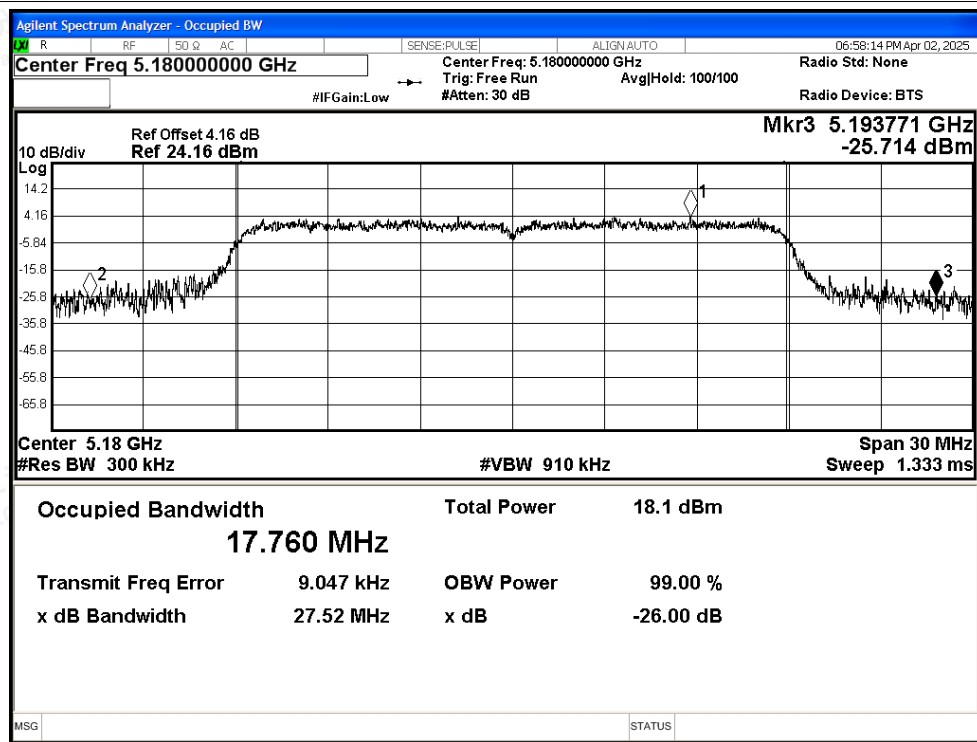




-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

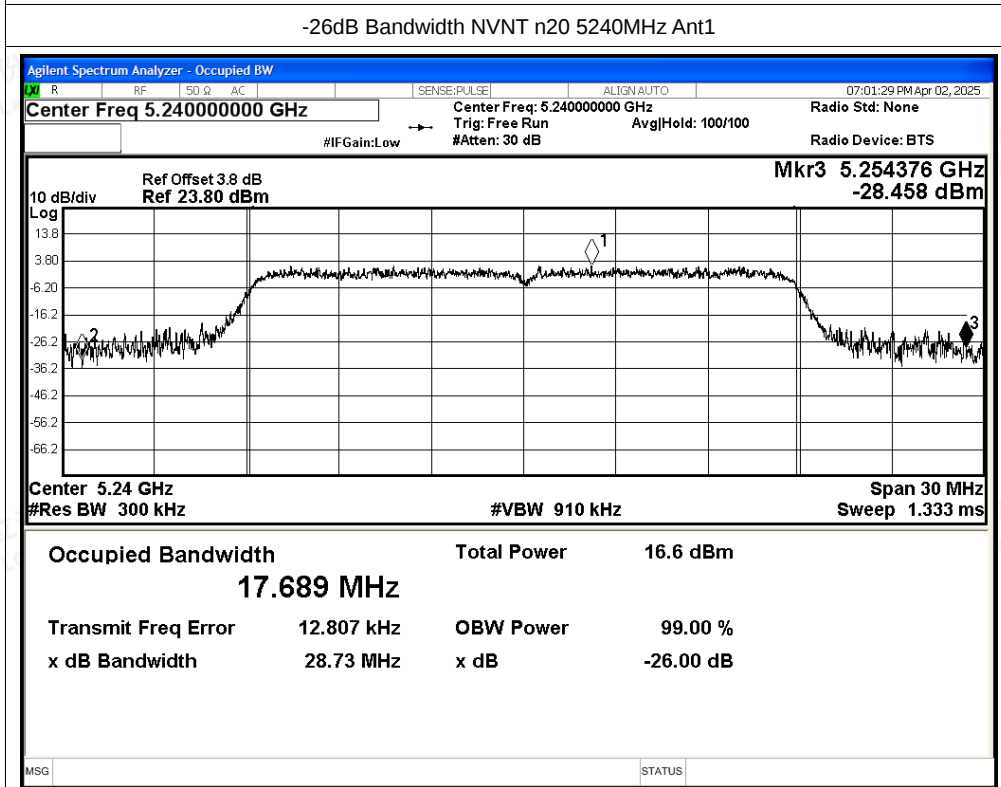
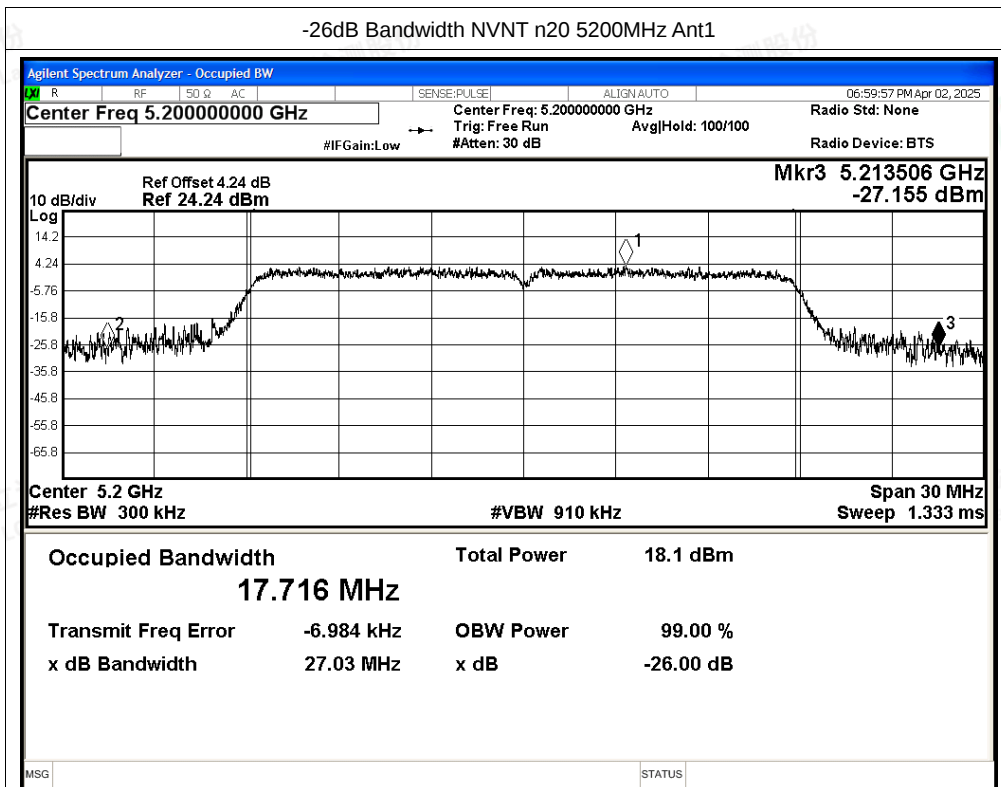


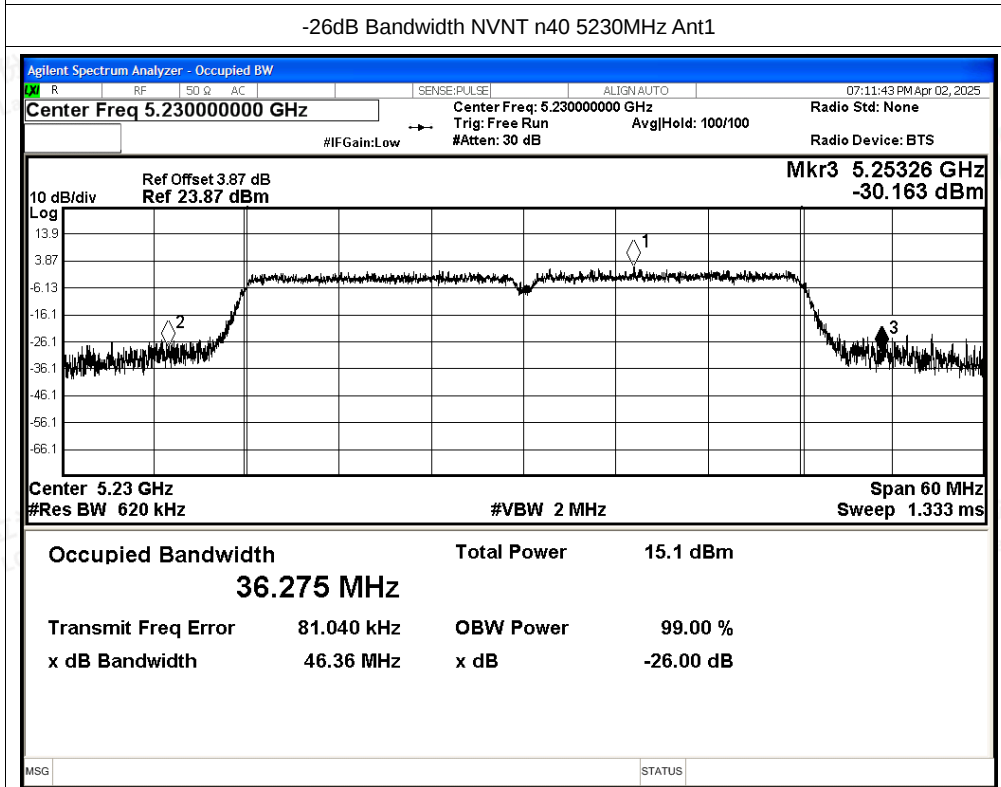
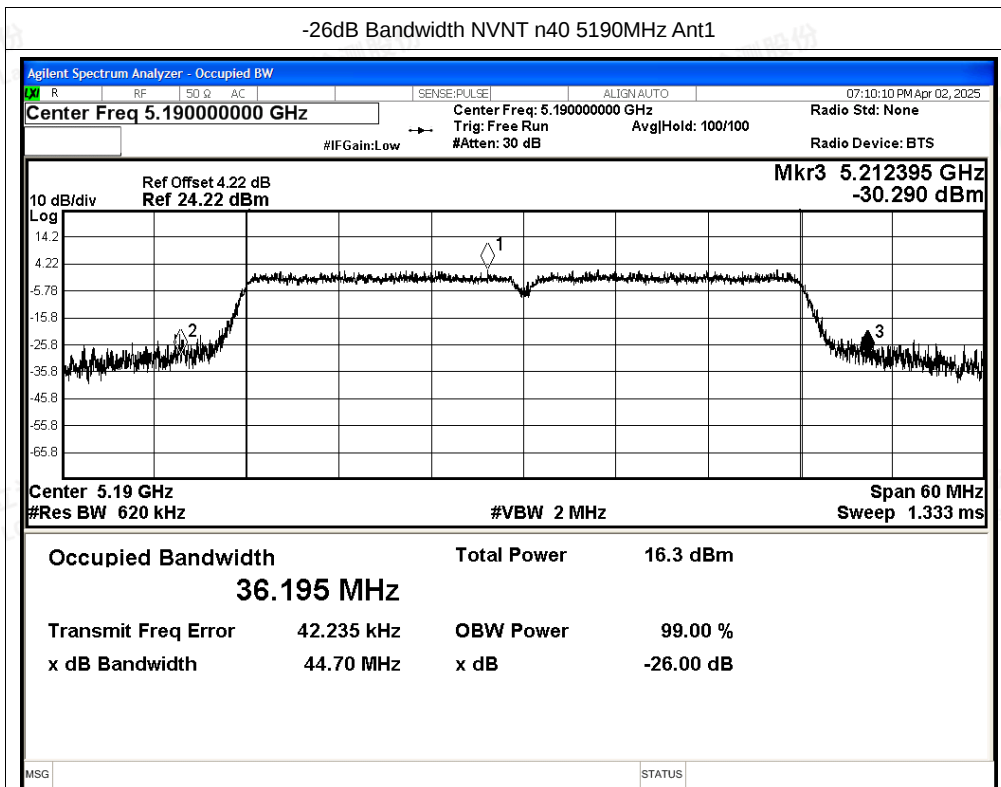
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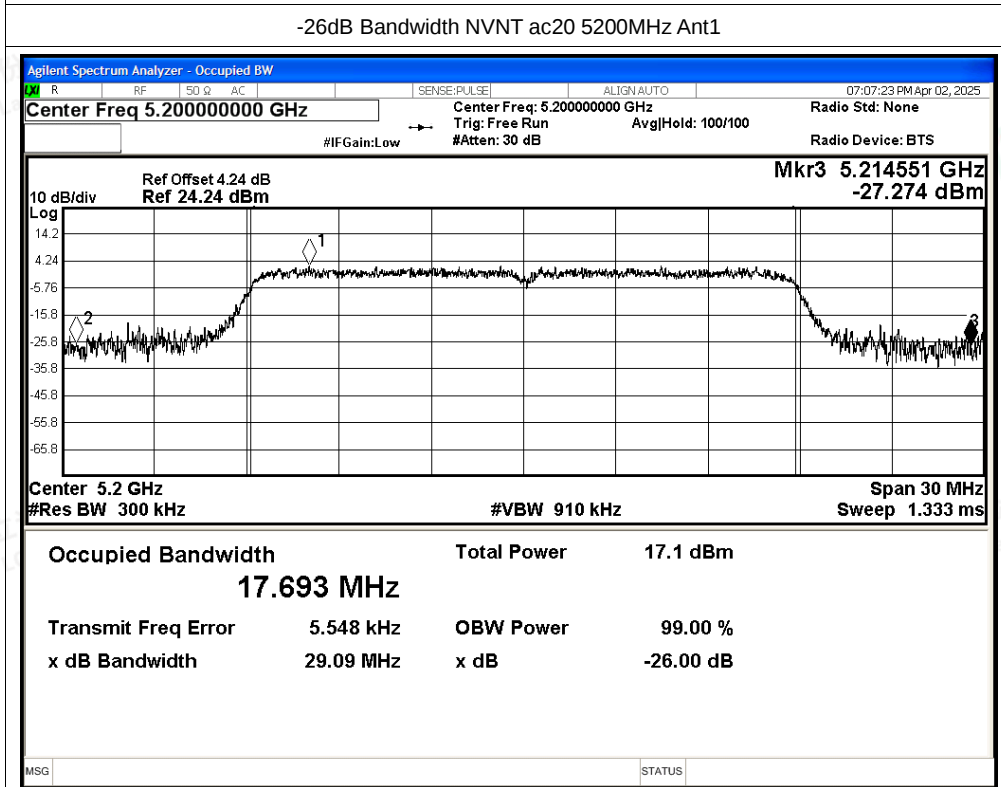
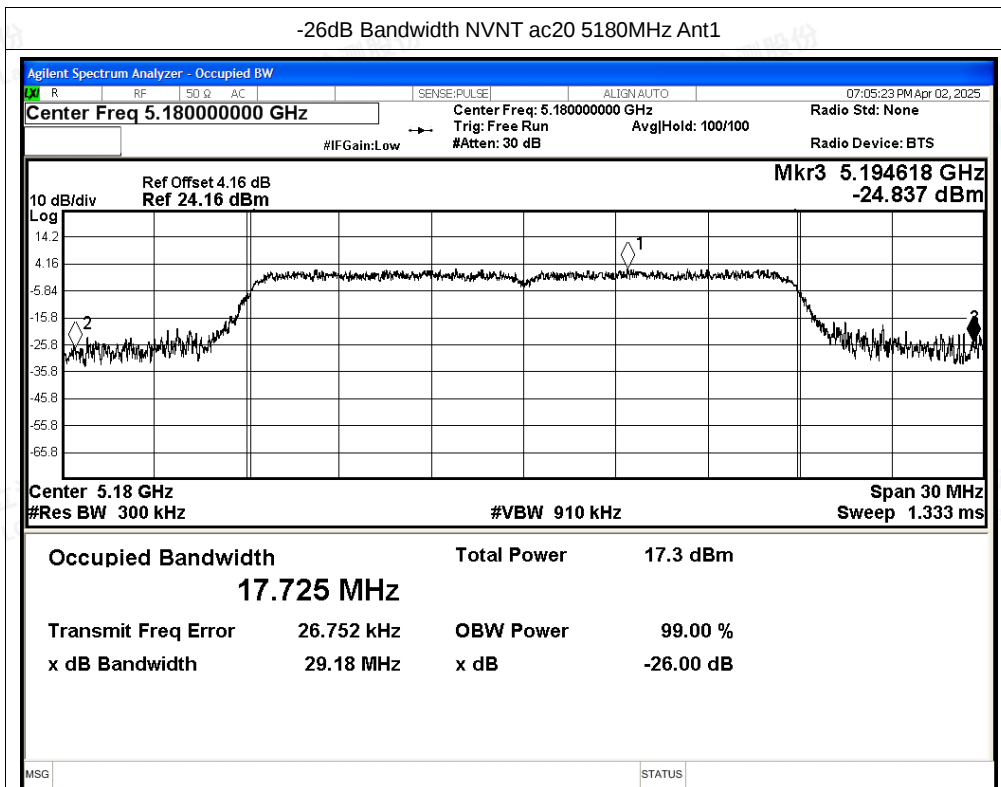
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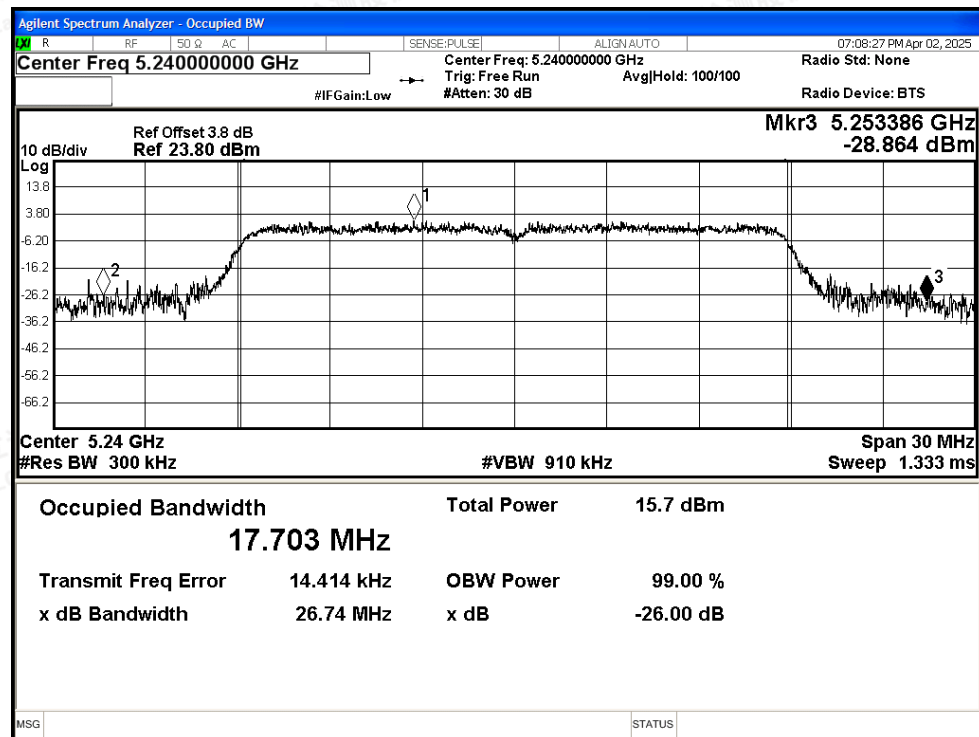




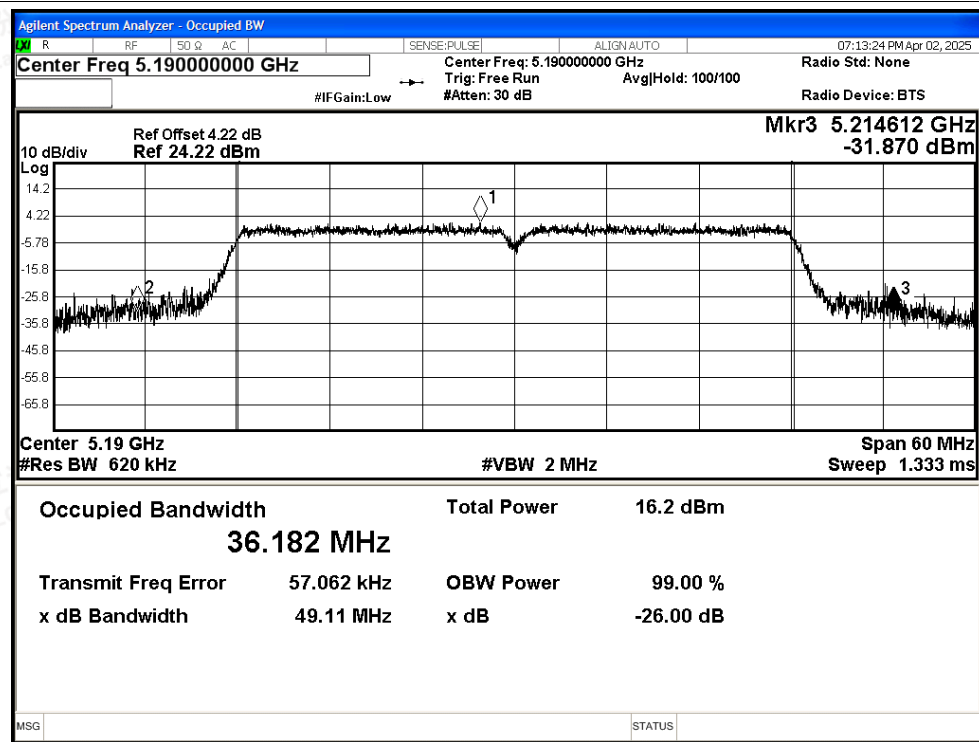




-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1

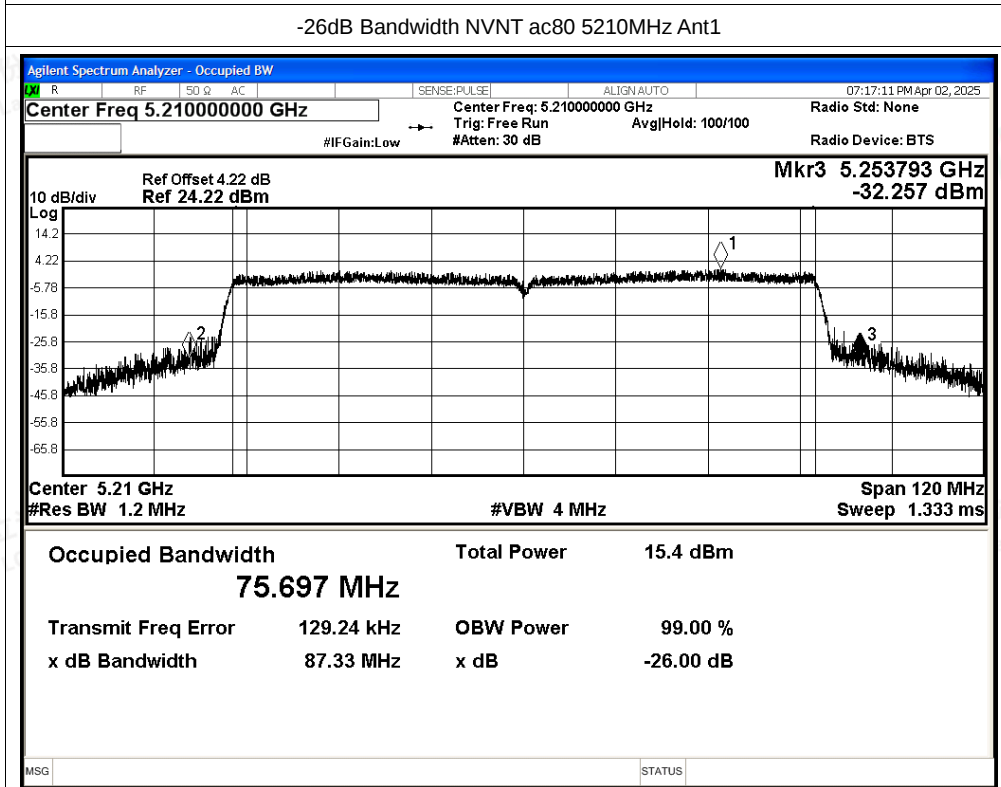
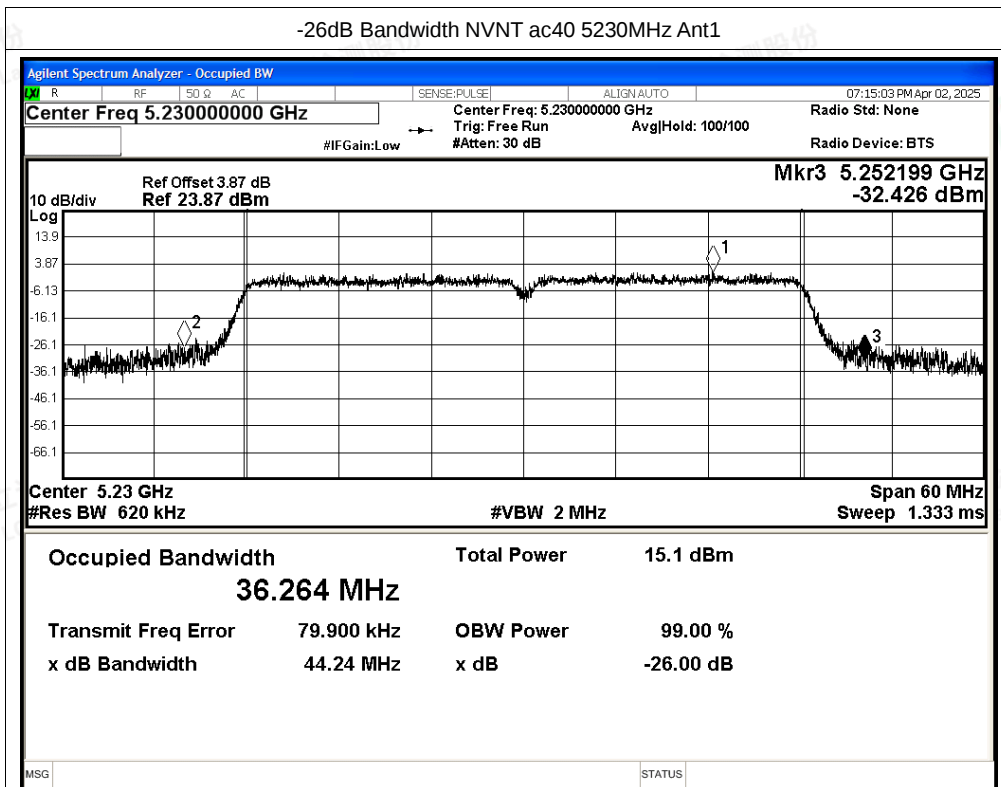


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B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	12.27	0.24	12.51	24	Pass
NVNT	a	5200	Ant1	12.15	0.24	12.39	24	Pass
NVNT	a	5240	Ant1	10.75	0.24	10.99	24	Pass
NVNT	n20	5180	Ant1	12.53	0	12.53	24	Pass
NVNT	n20	5200	Ant1	12.57	0	12.57	24	Pass
NVNT	n20	5240	Ant1	11.04	0	11.04	24	Pass
NVNT	n40	5190	Ant1	10.1	0.12	10.22	24	Pass
NVNT	n40	5230	Ant1	8.78	0.12	8.9	24	Pass
NVNT	ac20	5180	Ant1	11.81	0	11.81	24	Pass
NVNT	ac20	5200	Ant1	11.65	0	11.65	24	Pass
NVNT	ac20	5240	Ant1	10.18	0	10.18	24	Pass
NVNT	ac40	5190	Ant1	10.05	0.12	10.17	24	Pass
NVNT	ac40	5230	Ant1	8.77	0.12	8.89	24	Pass
NVNT	ac80	5210	Ant1	8.33	0.25	8.58	24	Pass





B.3 Maximum Power Spectral Density Level

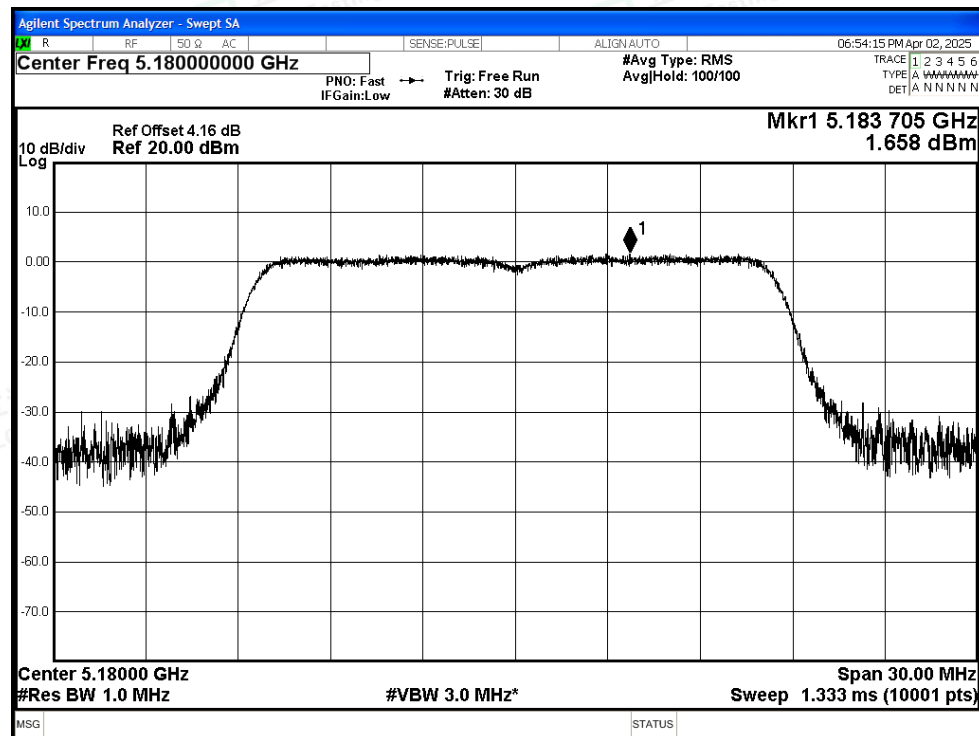
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	1.66	0.24	1.9	11	Pass
NVNT	a	5200	Ant1	1.77	0.24	2.01	11	Pass
NVNT	a	5240	Ant1	0.36	0.24	0.6	11	Pass
NVNT	n20	5180	Ant1	1.65	0	1.65	11	Pass
NVNT	n20	5200	Ant1	1.81	0	1.81	11	Pass
NVNT	n20	5240	Ant1	0.22	0	0.22	11	Pass
NVNT	n40	5190	Ant1	-3.77	0.12	-3.65	11	Pass
NVNT	n40	5230	Ant1	-4.77	0.12	-4.65	11	Pass
NVNT	ac20	5180	Ant1	1.21	0	1.21	11	Pass
NVNT	ac20	5200	Ant1	0.99	0	0.99	11	Pass
NVNT	ac20	5240	Ant1	-0.66	0	-0.66	11	Pass
NVNT	ac40	5190	Ant1	-3.92	0.12	-3.8	11	Pass
NVNT	ac40	5230	Ant1	-4.85	0.12	-4.73	11	Pass
NVNT	ac80	5210	Ant1	-8.17	0.25	-7.92	11	Pass



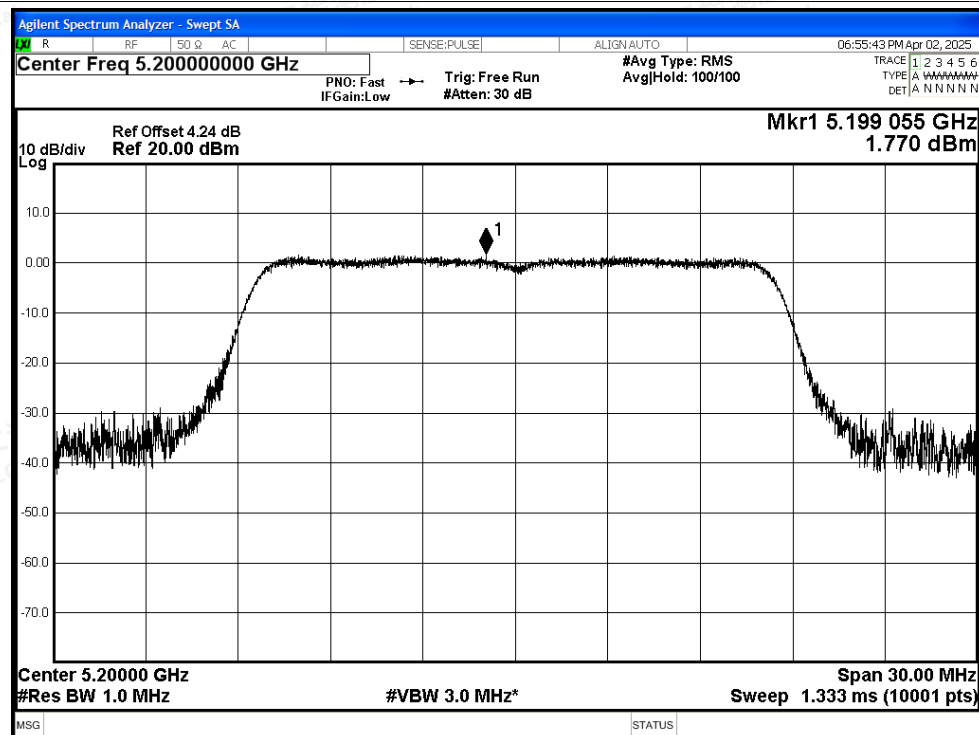


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1

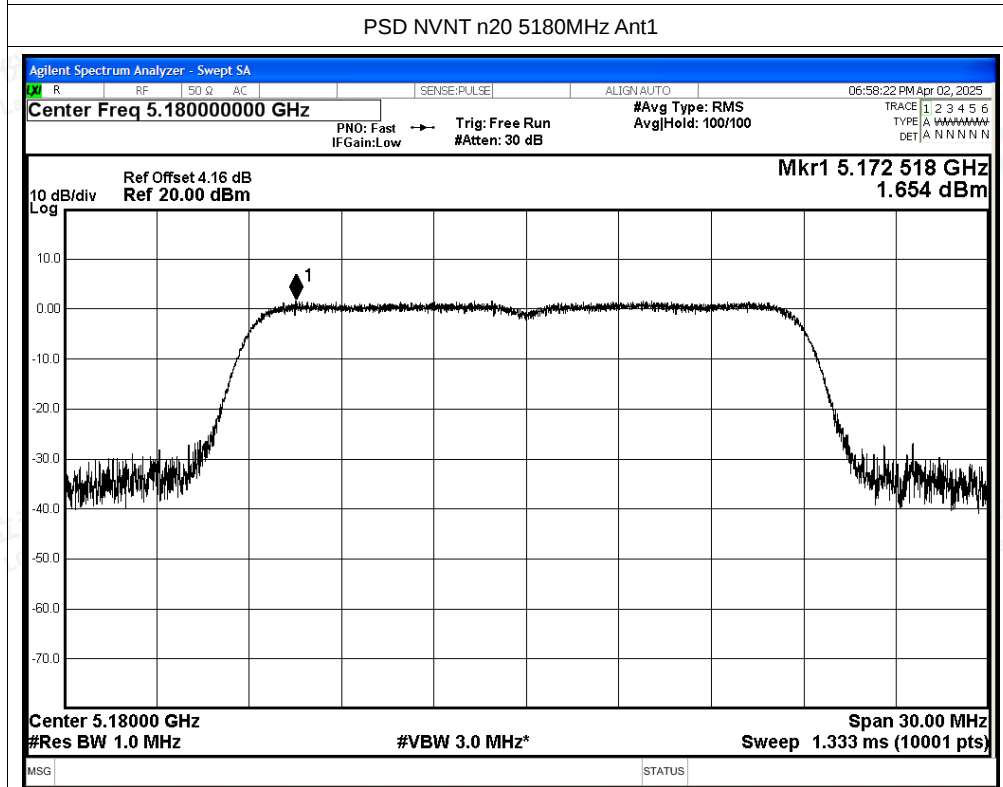
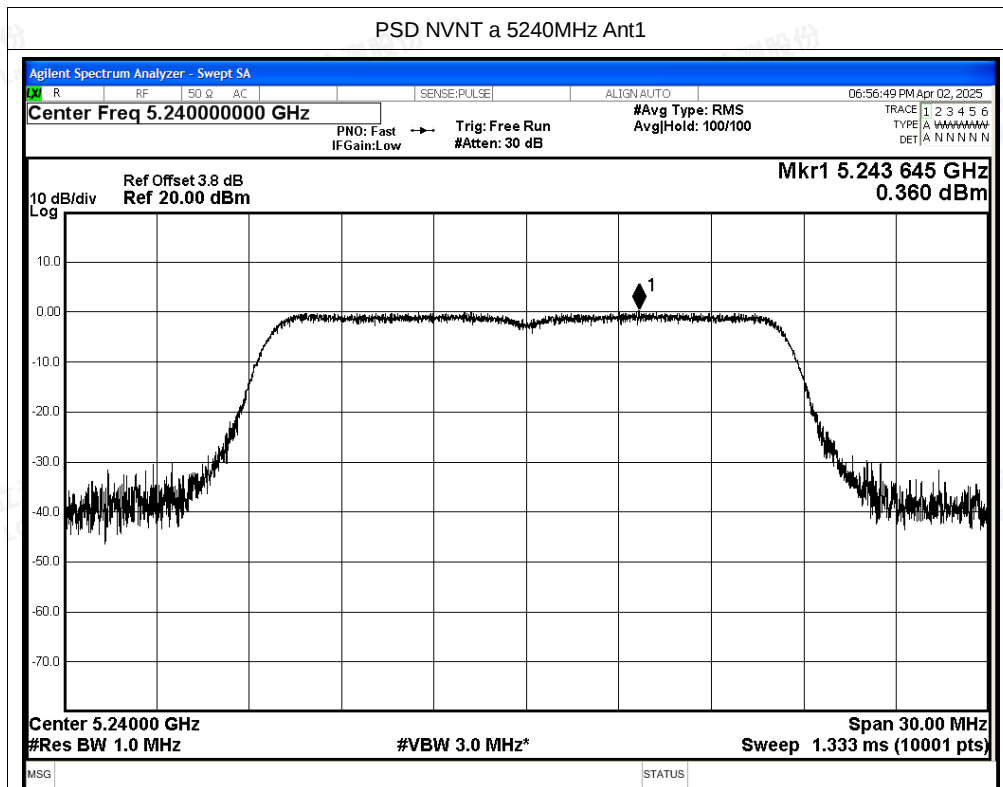


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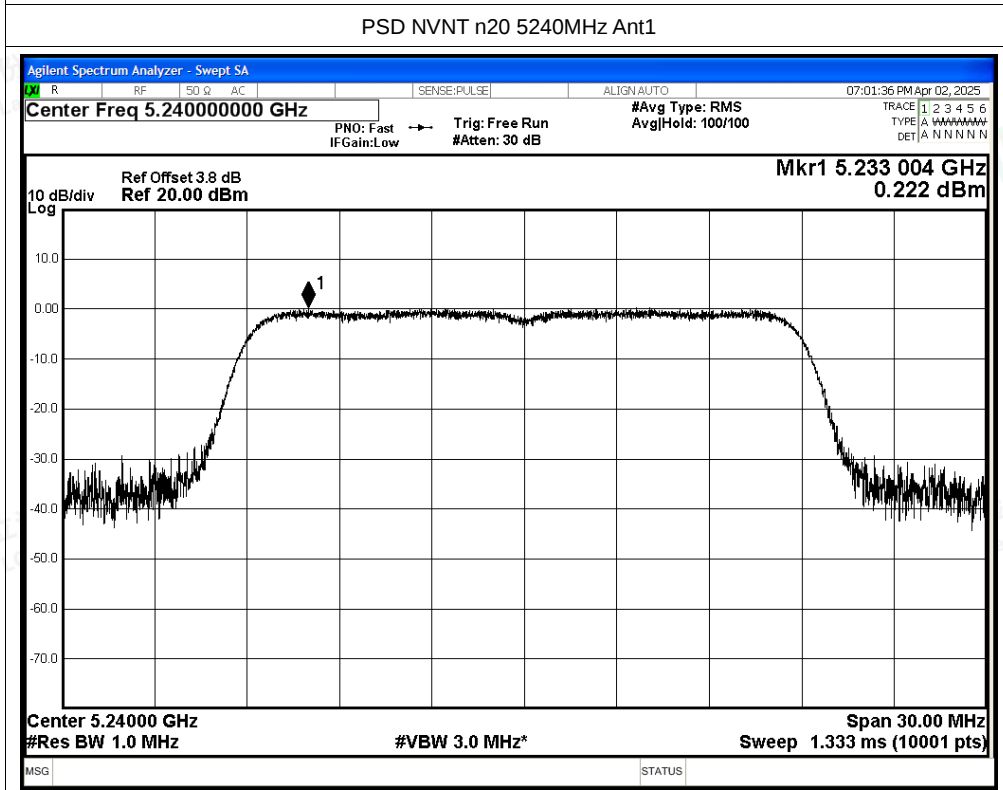
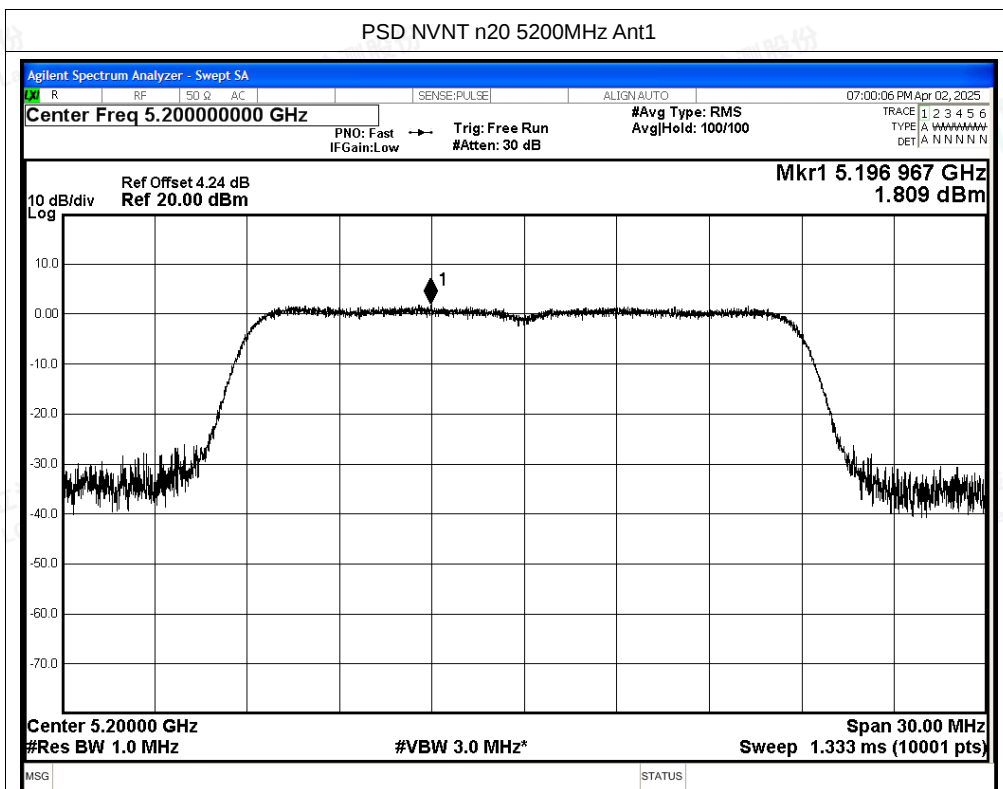


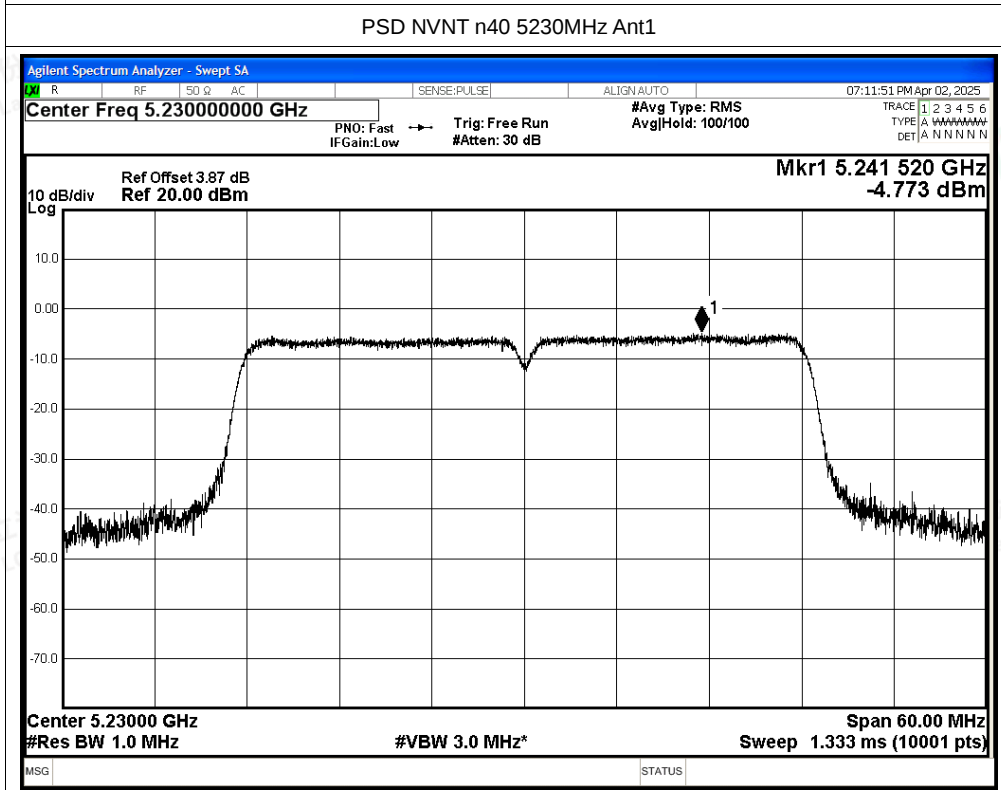
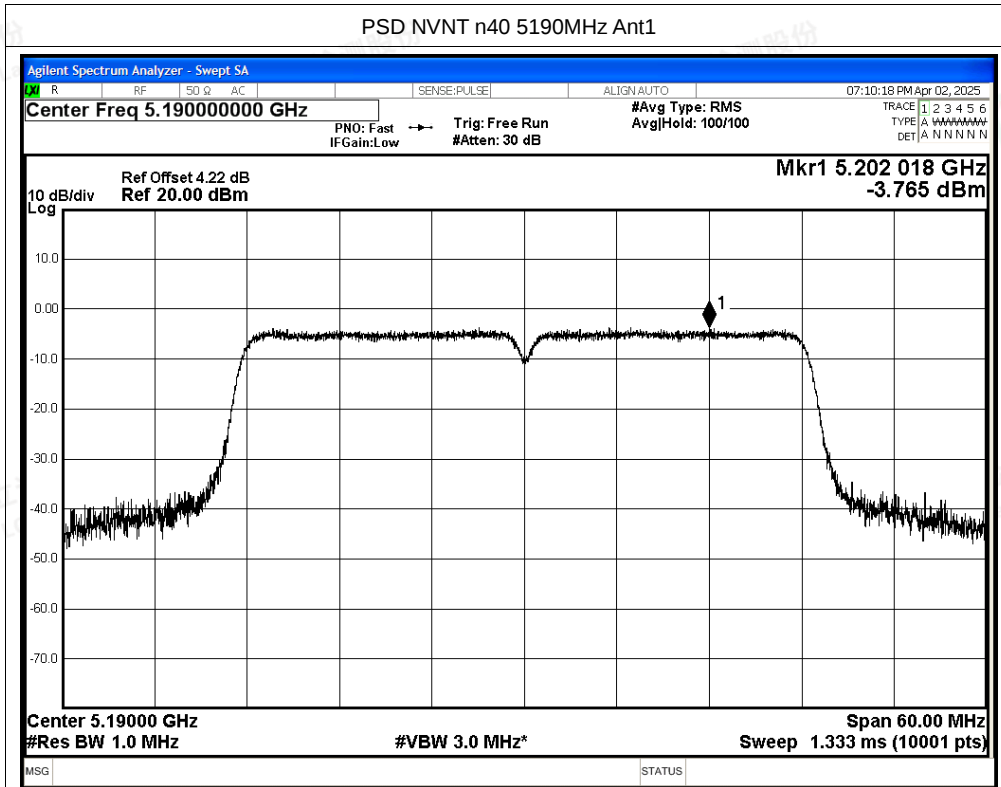
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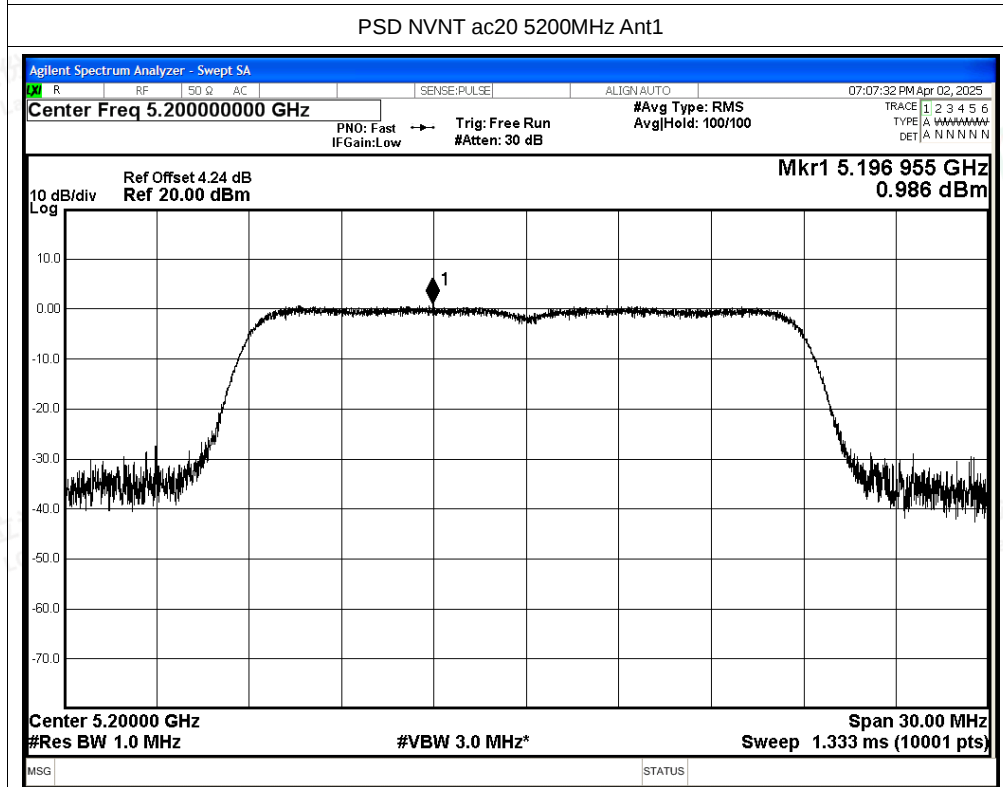
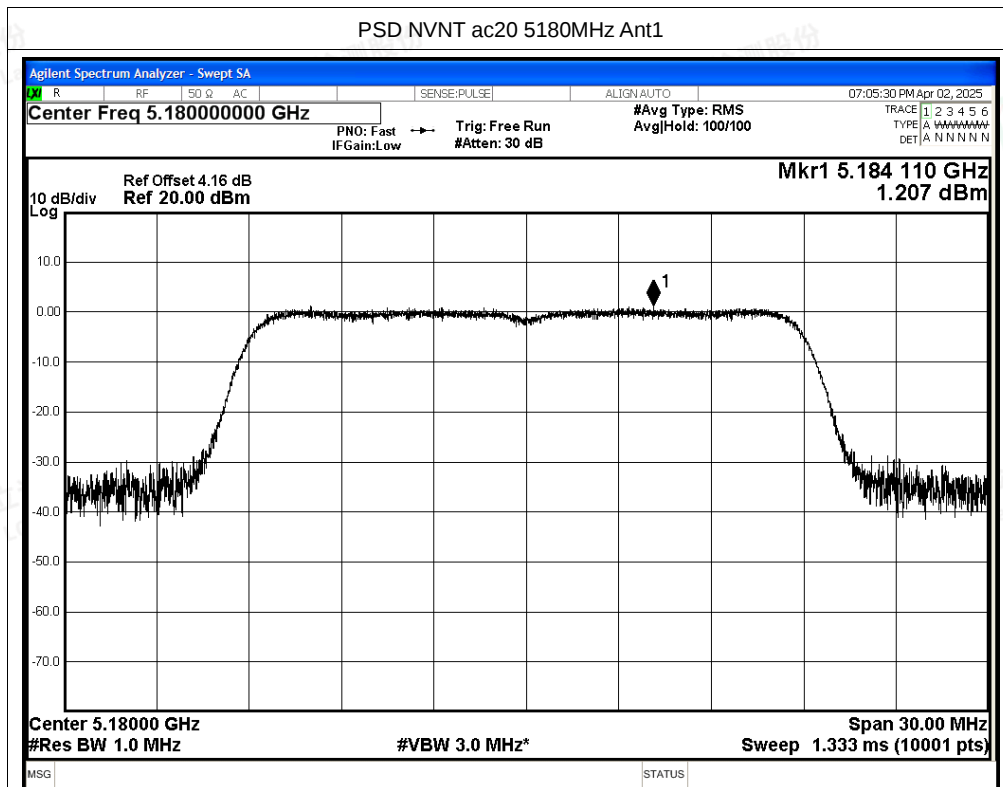


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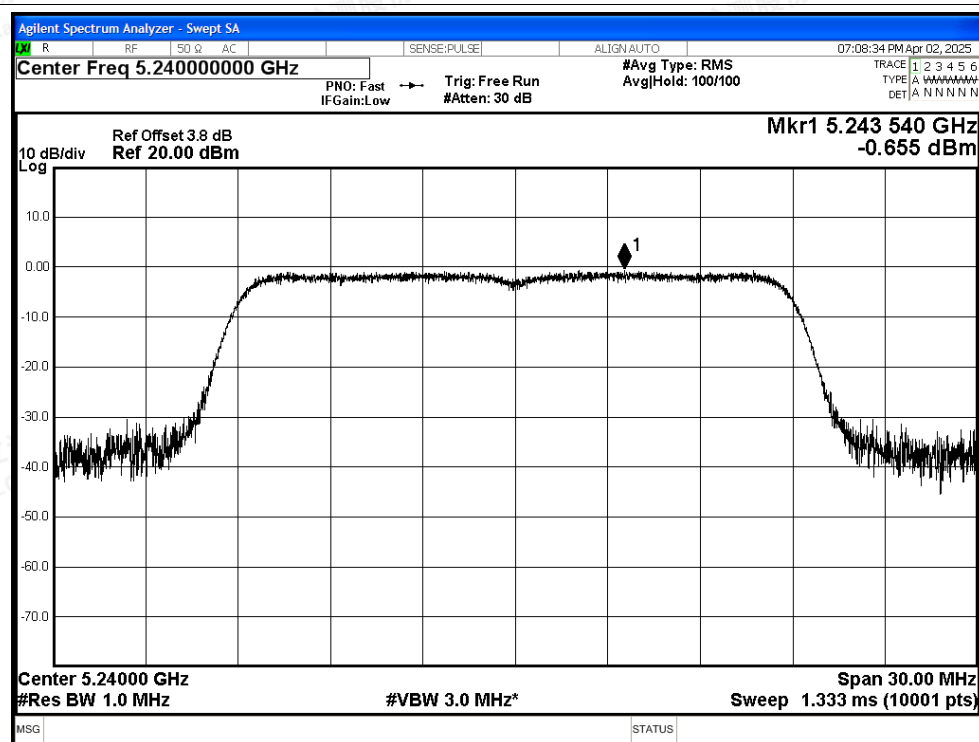
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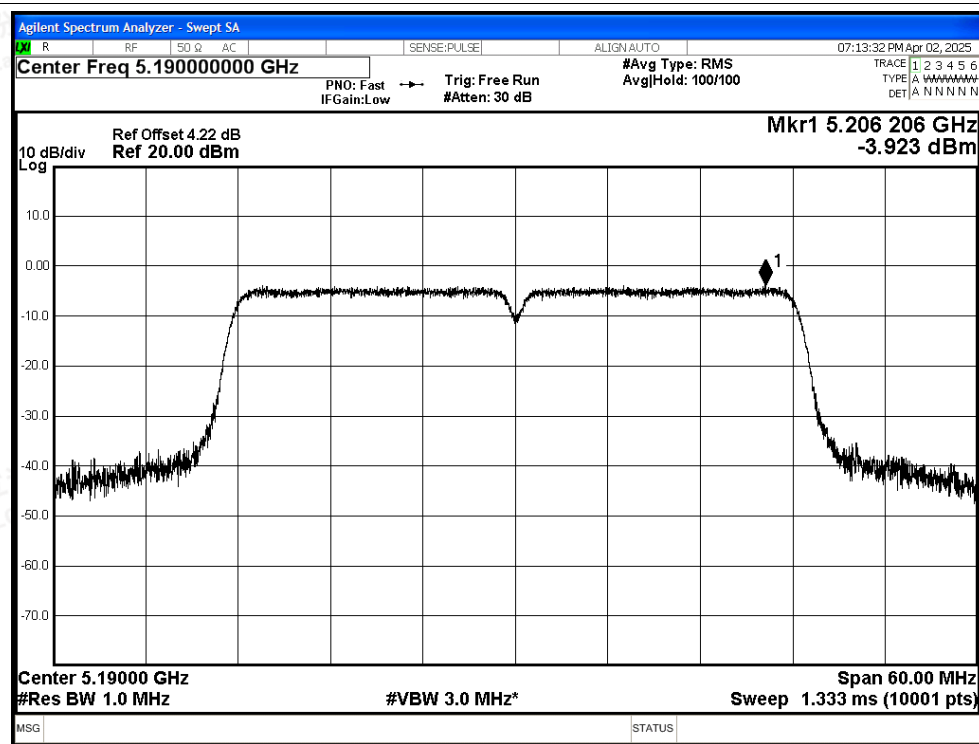
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PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1

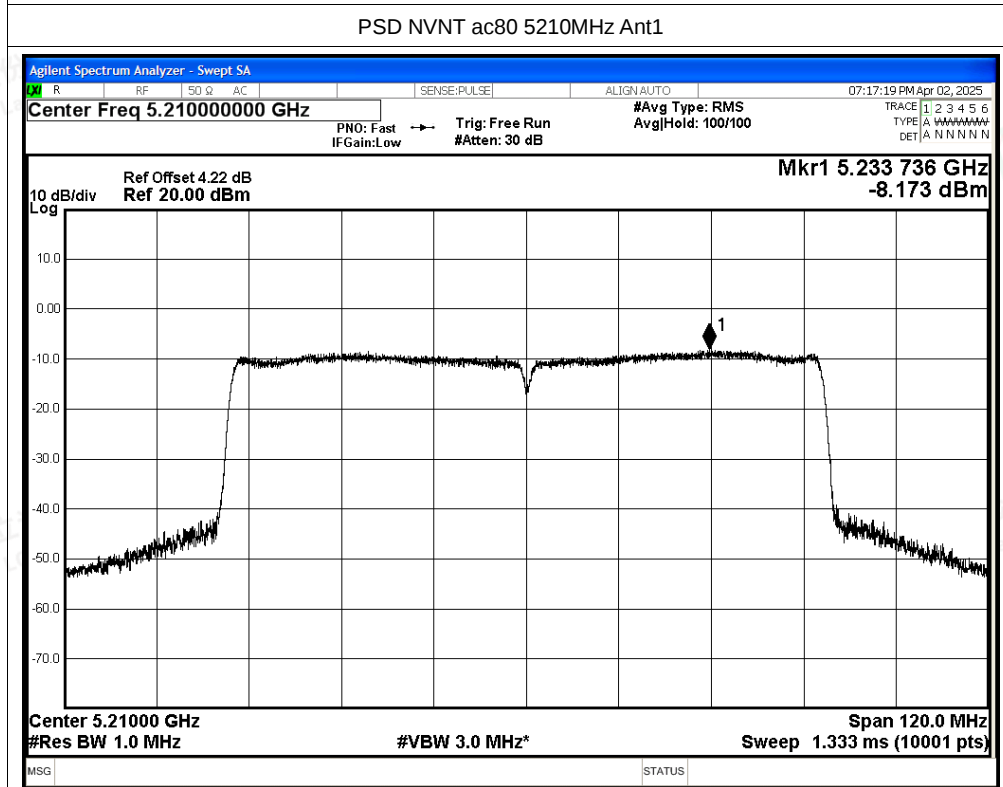
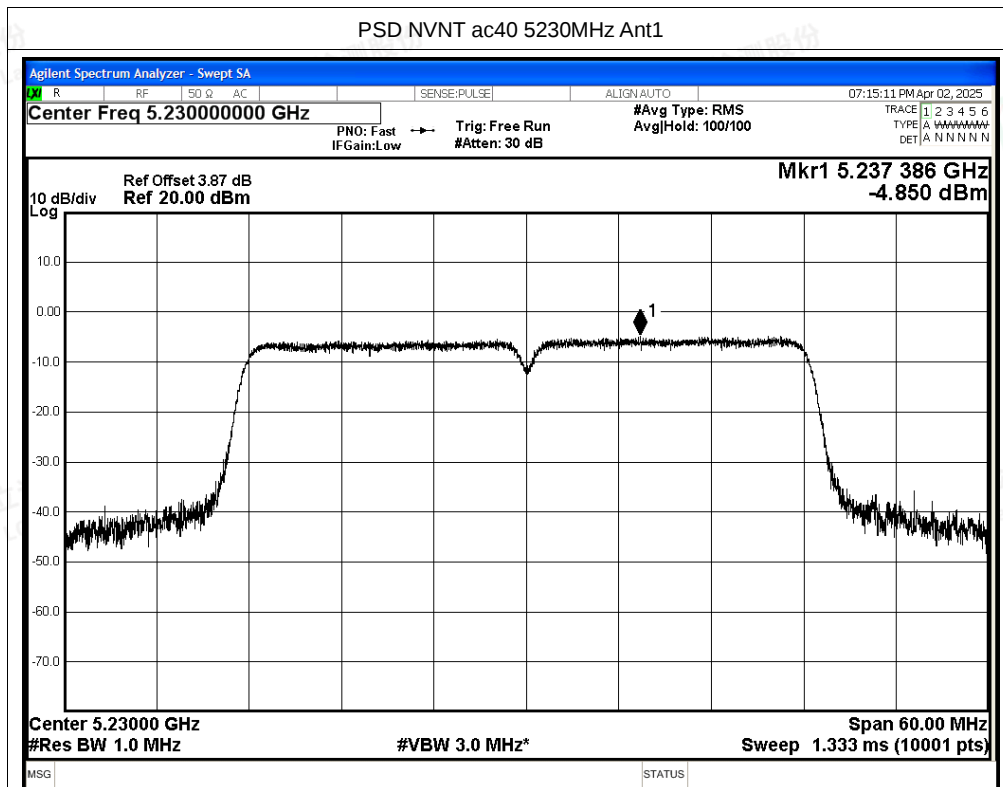


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B.4 Restrict Band

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	-50.77	3.18	-	47.64	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.86	3.18	0.24	40.79	Average	54	Pass
NVNT	a	5180	Ant1	5148.2	-35.3	3.18	-	63.11	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-51.69	3.18	0.24	46.96	Average	54	Pass
NVNT	a	5180	Ant1	5150	-33.46	3.18	-	64.95	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-51.24	3.18	0.24	47.41	Average	54	Pass
NVNT	a	5240	Ant1	5350	-46.9	3.18	-	51.51	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.64	3.18	0.24	42.01	Average	54	Pass
NVNT	a	5240	Ant1	5401.68	-46.53	3.18	-	51.88	Peak	68.2	Pass
NVNT	a	5240	Ant1	5351.28	-56.17	3.18	0.24	42.48	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.81	3.18	-	48.60	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.58	3.18	0.24	41.07	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.72	3.18	-	48.69	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.62	3.18	0	40.79	Average	54	Pass
NVNT	n20	5180	Ant1	5148.9	-33.39	3.18	-	65.02	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-48.6	3.18	0	49.81	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-37.02	3.18	-	61.39	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-48.11	3.18	0	50.30	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.44	3.18	-	48.97	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.18	3.18	0	41.23	Average	54	Pass
NVNT	n20	5240	Ant1	5439.6	-46.05	3.18	-	52.36	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5398.08	-56.42	3.18	0	41.99	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.82	3.18	-	49.59	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.53	3.18	0	41.88	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.33	3.18	-	50.08	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.09	3.18	0.12	41.44	Average	54	Pass
NVNT	n40	5190	Ant1	5146.05	-38.78	3.18	-	59.63	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5148.97	-51.69	3.18	0.12	46.84	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-40.82	3.18	-	57.59	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-51.81	3.18	0.12	46.72	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49	3.18	-	49.41	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.09	3.18	0.12	41.44	Average	54	Pass
NVNT	n40	5230	Ant1	5430.3	-46.08	3.18	-	52.33	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5366.04	-56.21	3.18	0.12	42.32	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.58	3.18	-	48.83	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.15	3.18	0.12	41.38	Average	54	Pass
NVNT	ac20	5180	Ant1	4500	-50.21	3.18	-	48.20	Peak	68.2	Pass



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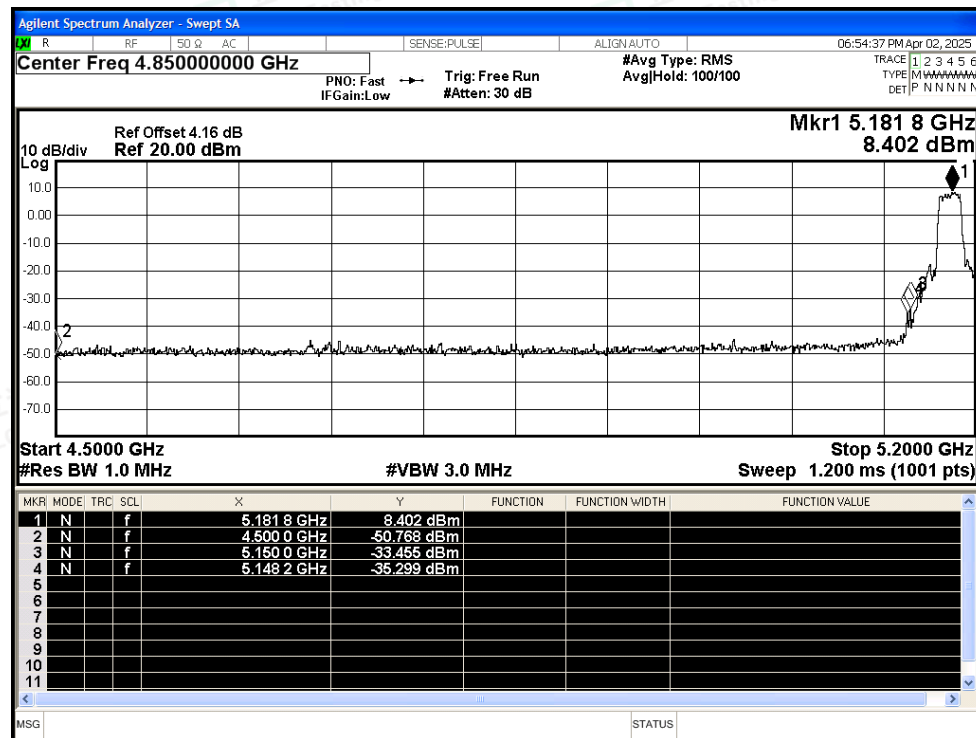
NVNT	ac20	5180	Ant1	4500	-57.81	3.18	0	40.60	Average	54	Pass
NVNT	ac20	5180	Ant1	5148.2	-38.45	3.18	-	59.96	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.2	-50.57	3.18	0	47.84	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-38.99	3.18	-	59.42	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-50.32	3.18	0	48.09	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-47.85	3.18	-	50.56	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-56.76	3.18	0	41.65	Average	54	Pass
NVNT	ac20	5240	Ant1	5381.28	-46.6	3.18	-	51.81	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5420.4	-56.07	3.18	0	42.34	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.37	3.18	-	49.04	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.58	3.18	0	40.83	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-48.09	3.18	-	50.32	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-58.02	3.18	0.12	40.51	Average	54	Pass
NVNT	ac40	5190	Ant1	5148.24	-36.92	3.18	-	61.49	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-50.73	3.18	0.12	47.80	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-40.32	3.18	-	58.09	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-50.73	3.18	0.12	47.80	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-48.88	3.18	-	49.53	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-57.06	3.18	0.12	41.47	Average	54	Pass
NVNT	ac40	5230	Ant1	5420.04	-46	3.18	-	52.41	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5374.95	-56.21	3.18	0.12	42.32	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-48.39	3.18	-	50.02	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.21	3.18	0.12	41.32	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-48.93	3.18	-	49.48	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.36	3.18	0.25	42.30	Average	54	Pass
NVNT	ac80	5210	Ant1	5386.74	-45.71	3.18	-	52.70	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5373.54	-55.98	3.18	0.25	42.68	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-49.56	3.18	-	48.85	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-57.35	3.18	0.25	41.31	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.93	3.18	-	48.48	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-58.01	3.18	0.25	40.65	Average	54	Pass
NVNT	ac80	5210	Ant1	5138.32	-41.09	3.18	-	57.32	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5147.01	-52.14	3.18	0.25	46.52	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-42.35	3.18	-	56.06	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-52.55	3.18	0.25	46.11	Average	54	Pass



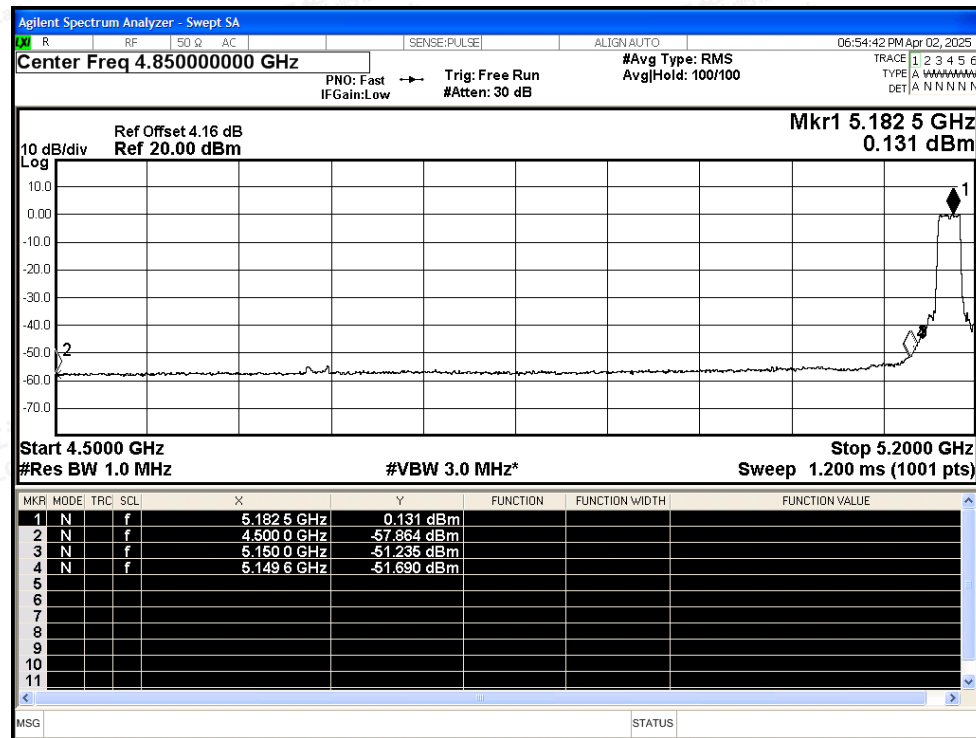


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak

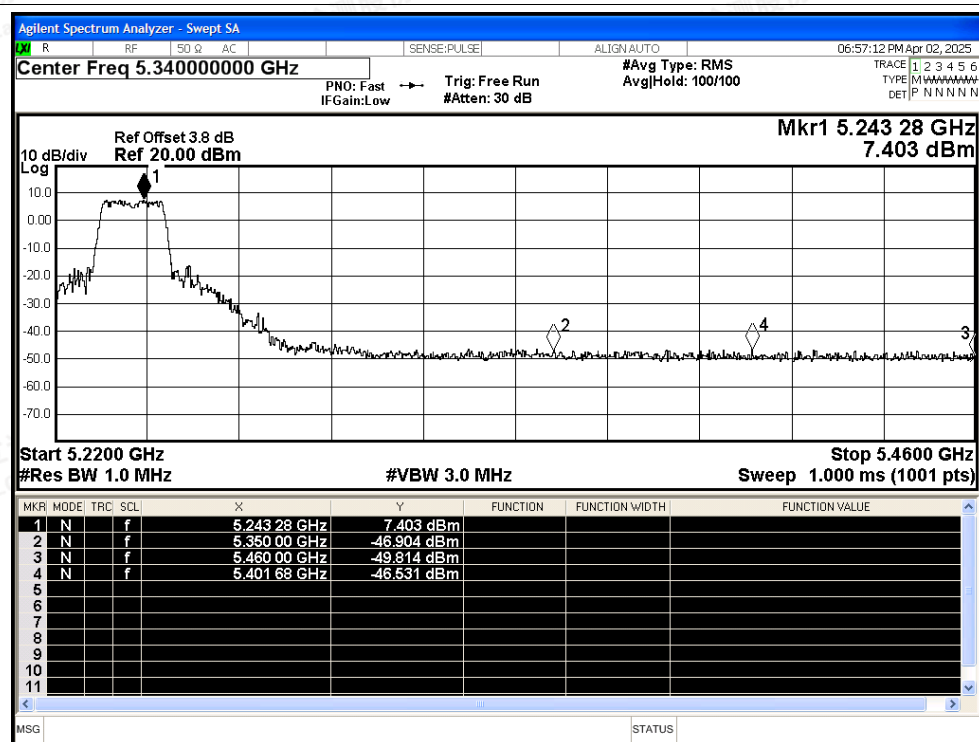


Restrict Band NVNT a 5180MHz Ant1 Average

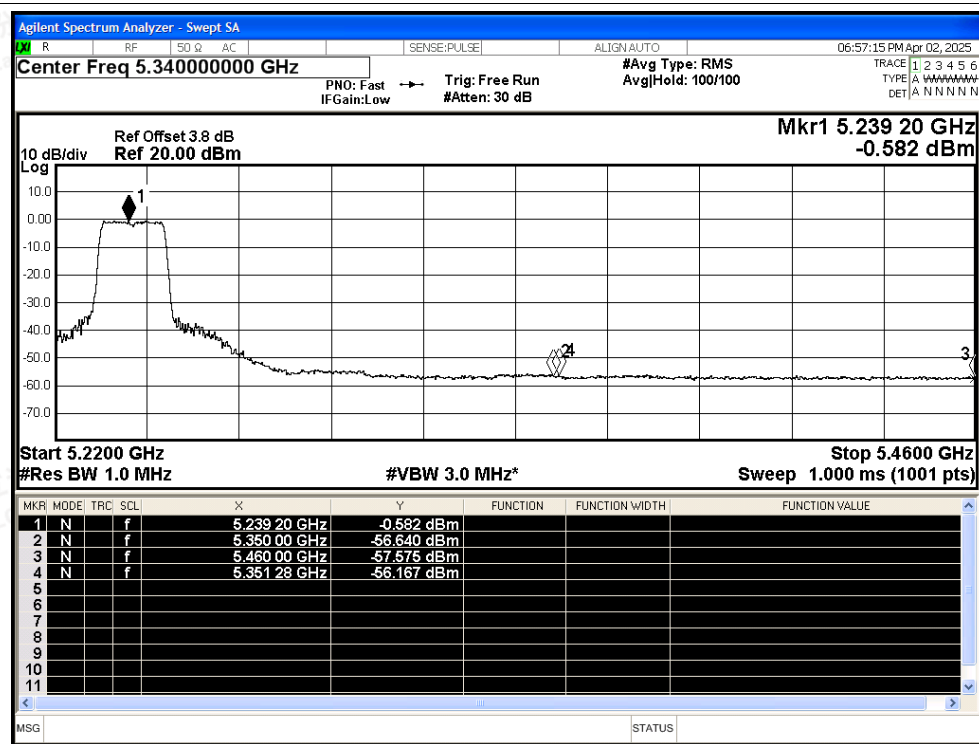


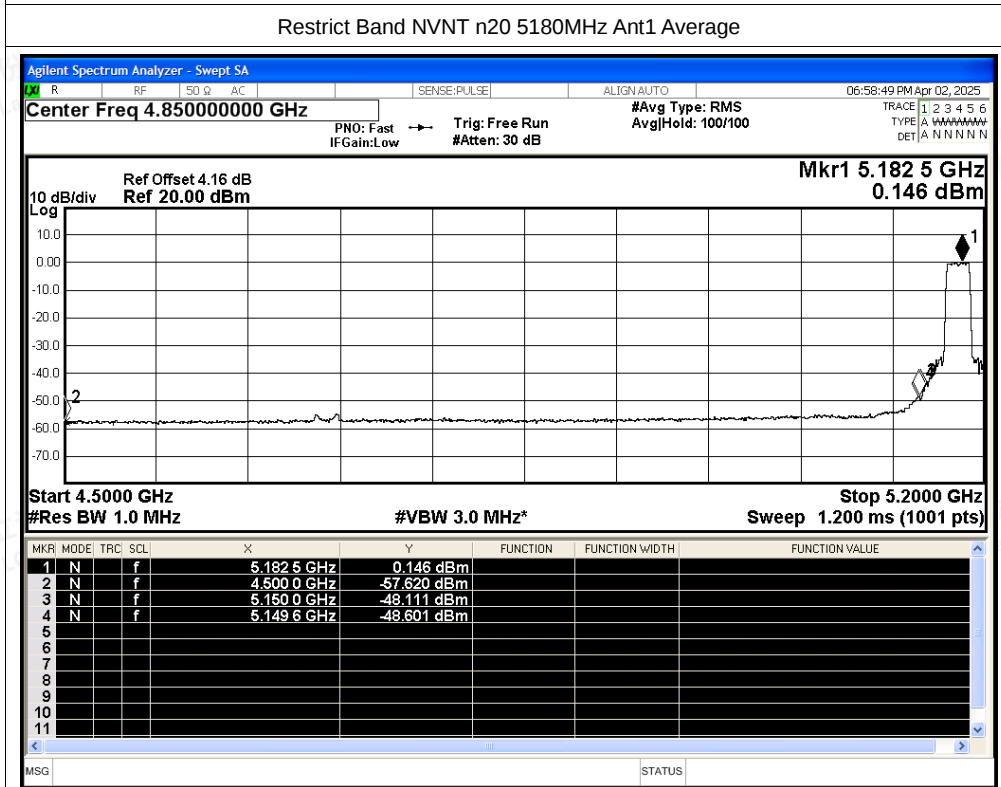
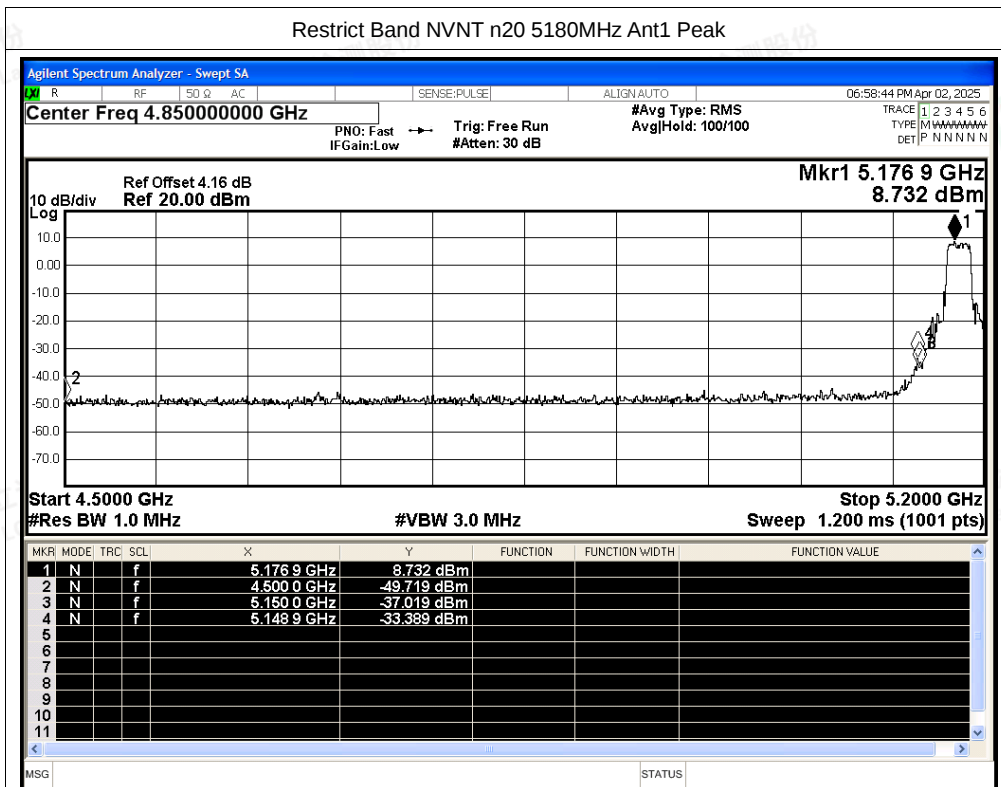


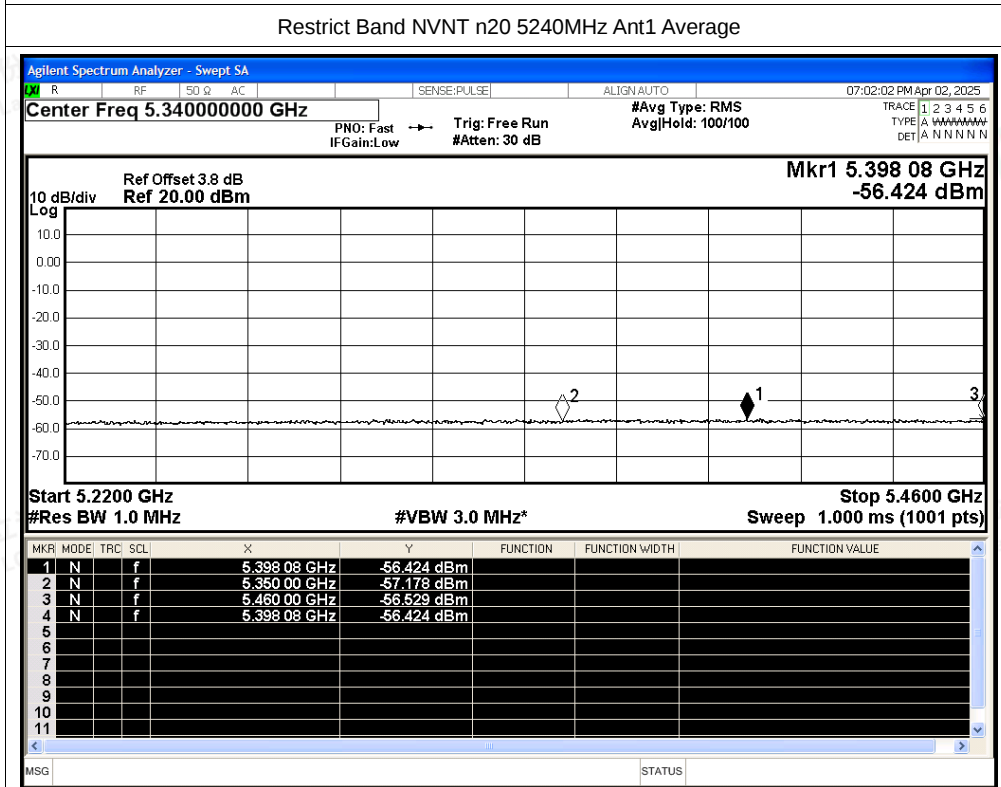
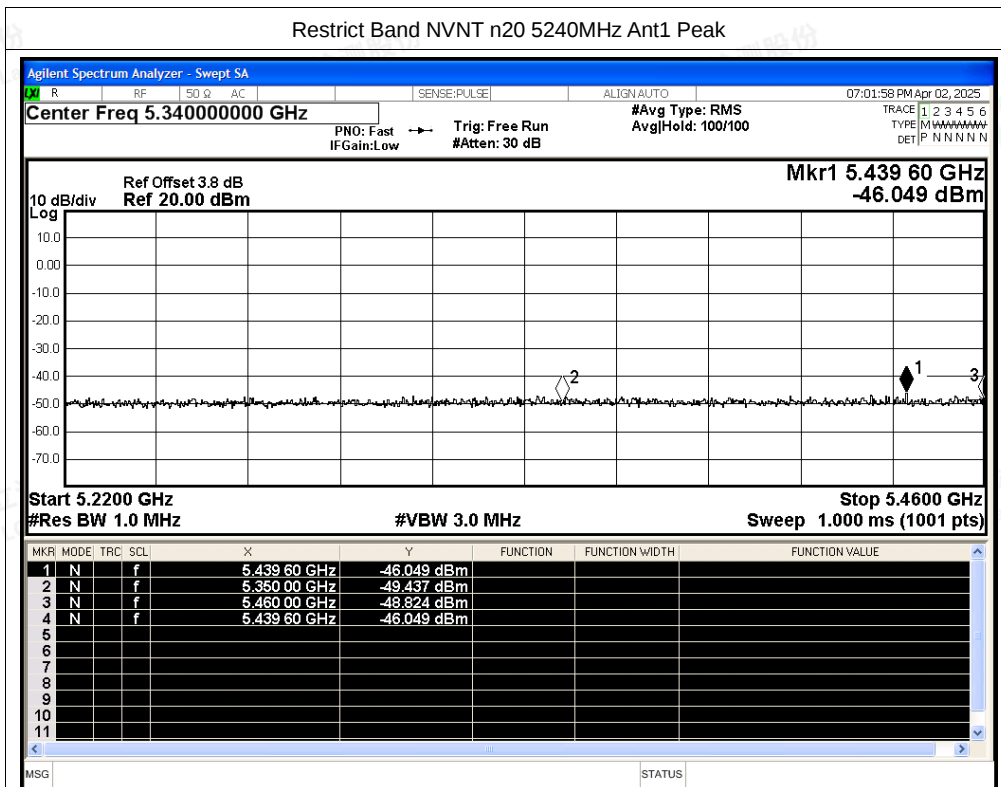
Restrict Band NVNT a 5240MHz Ant1 Peak

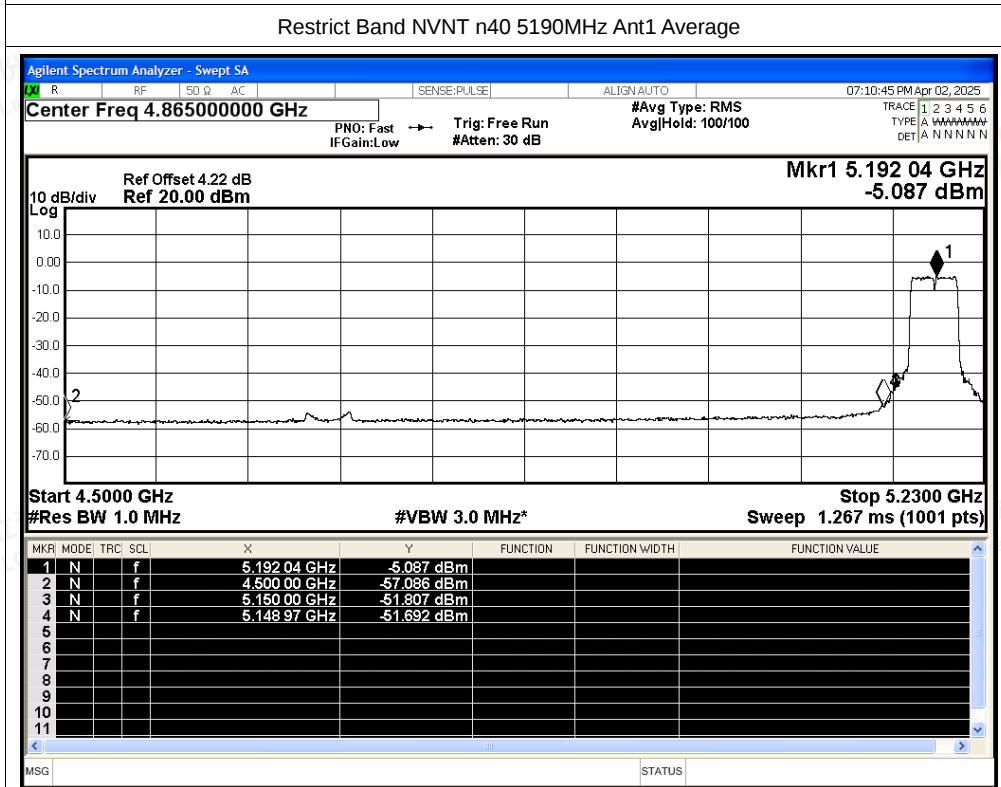
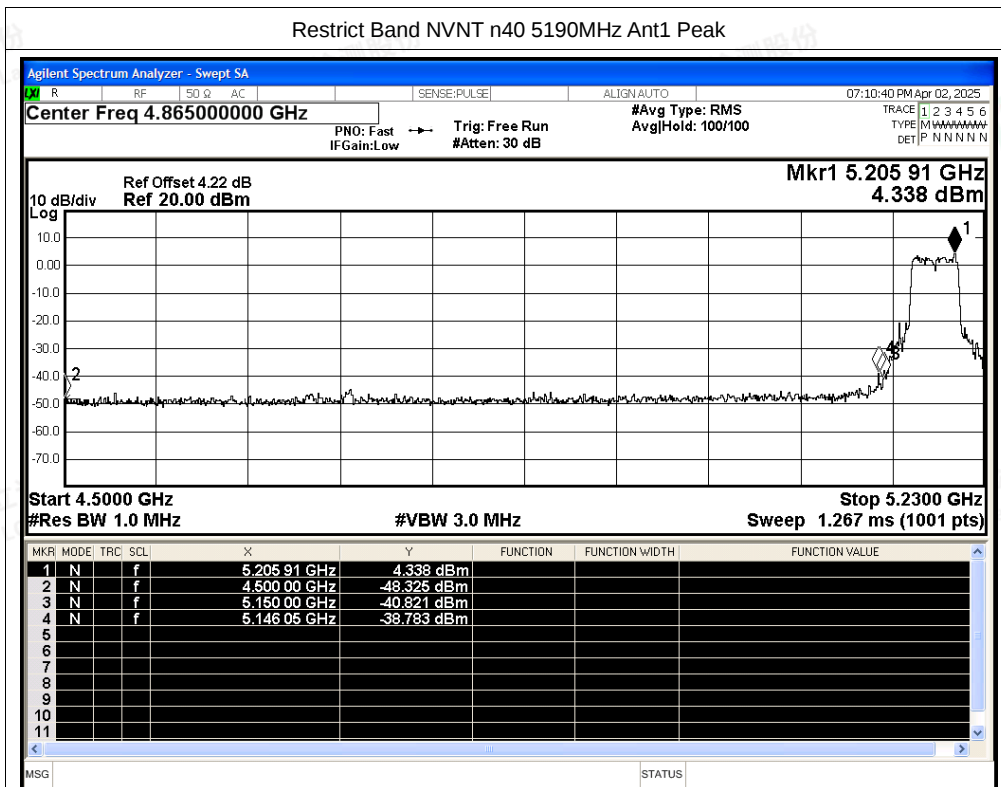


Restrict Band NVNT a 5240MHz Ant1 Average



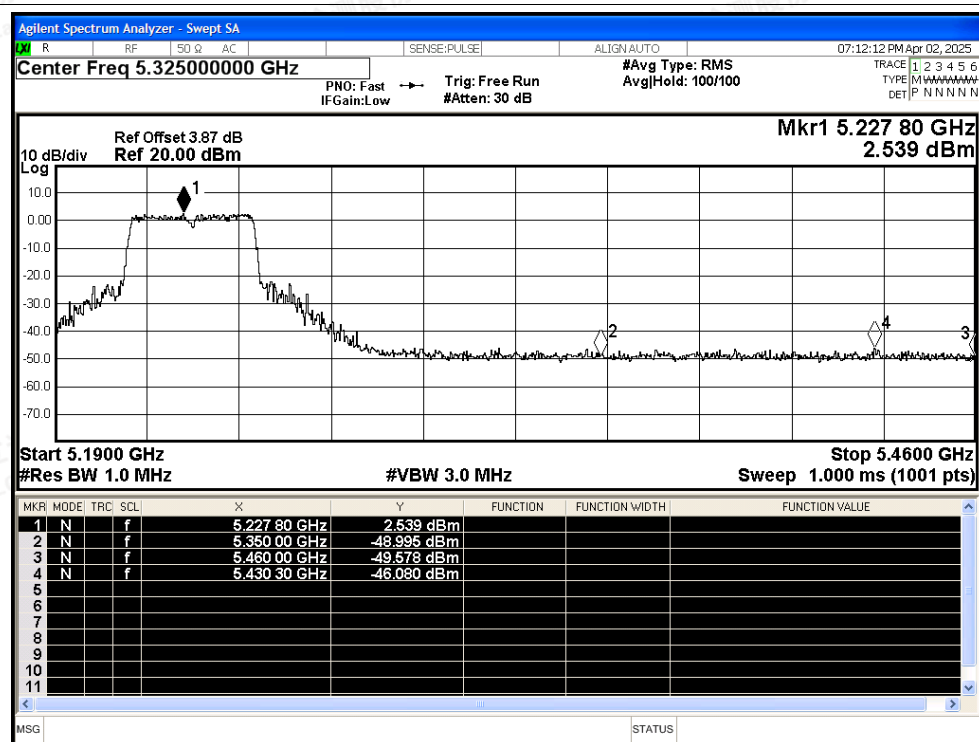




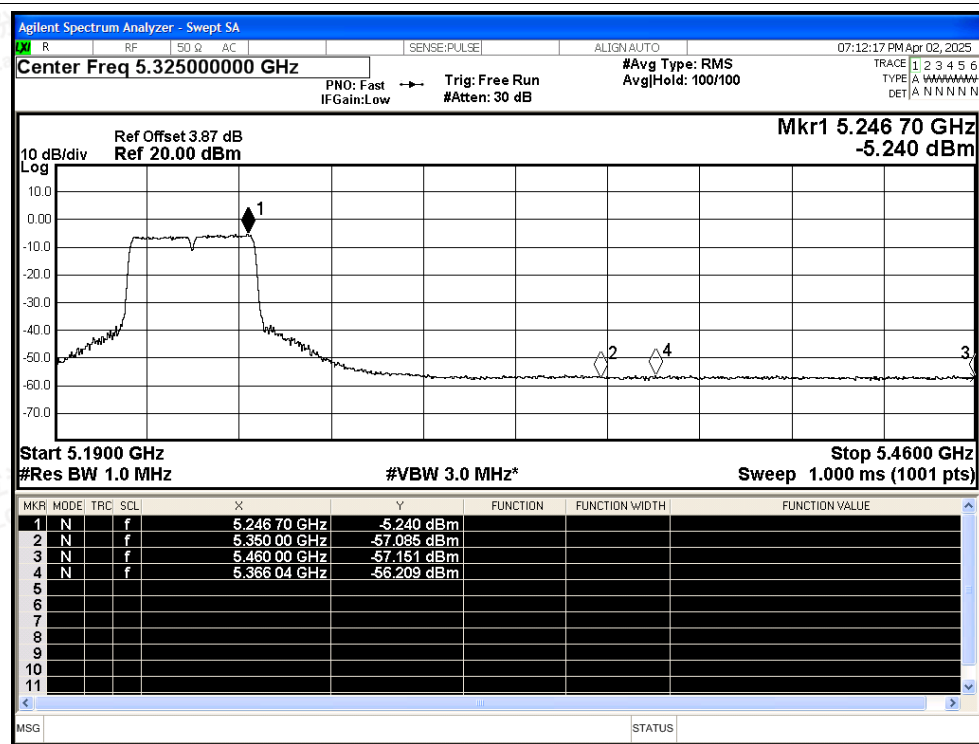


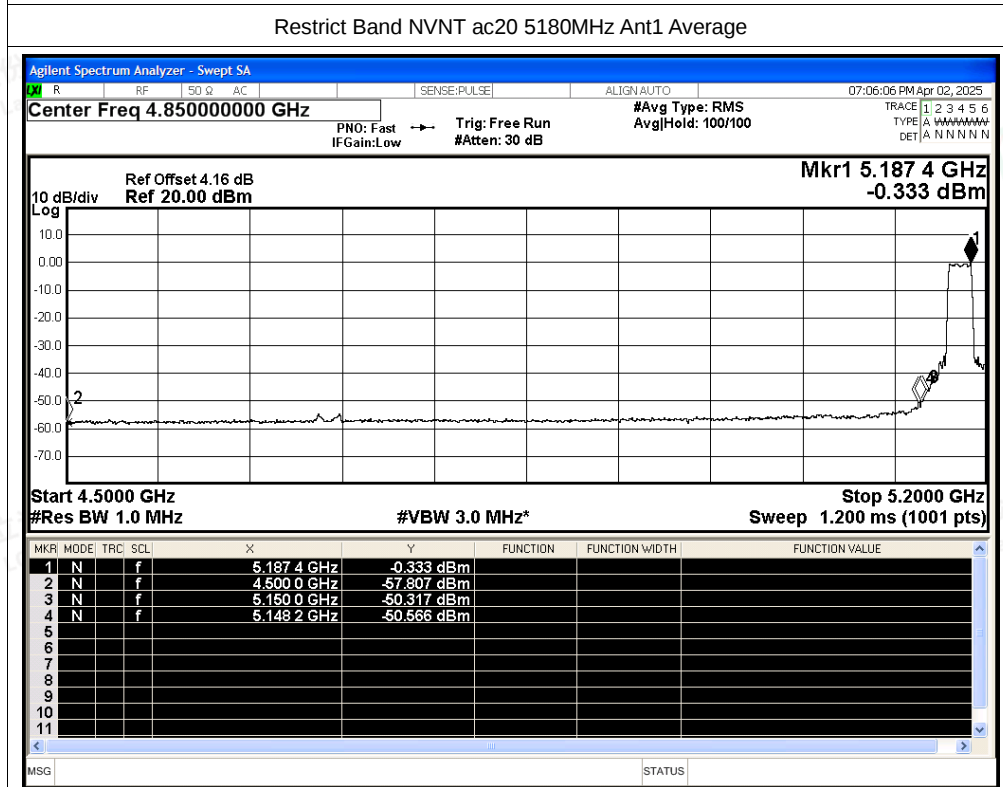
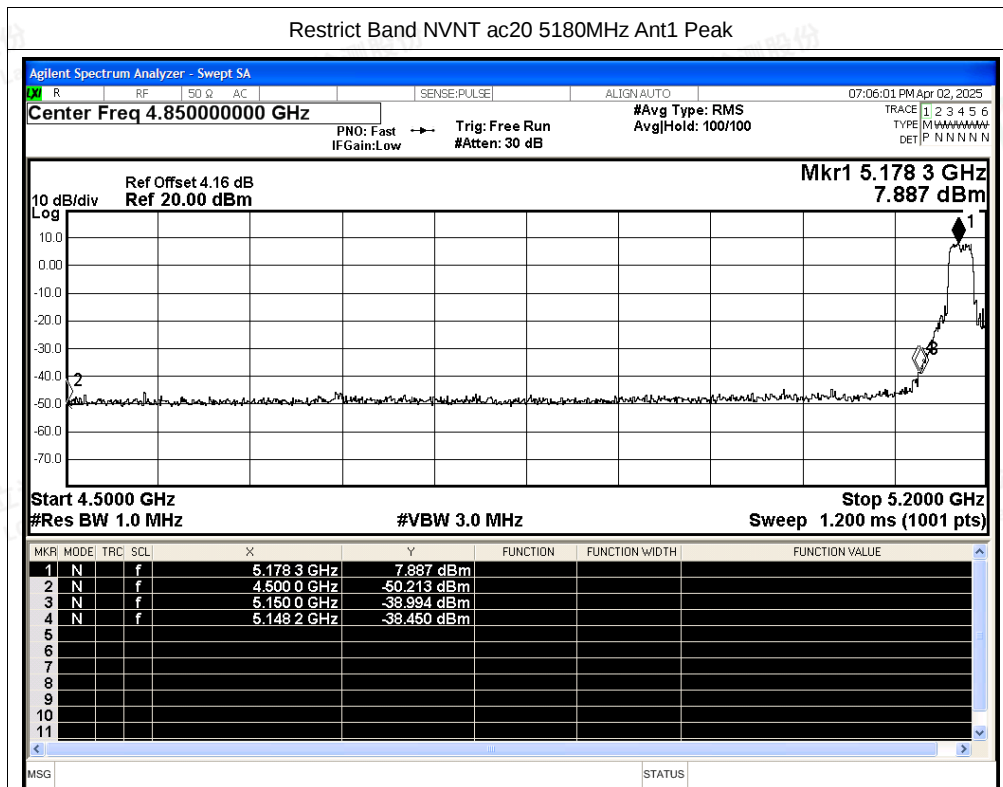


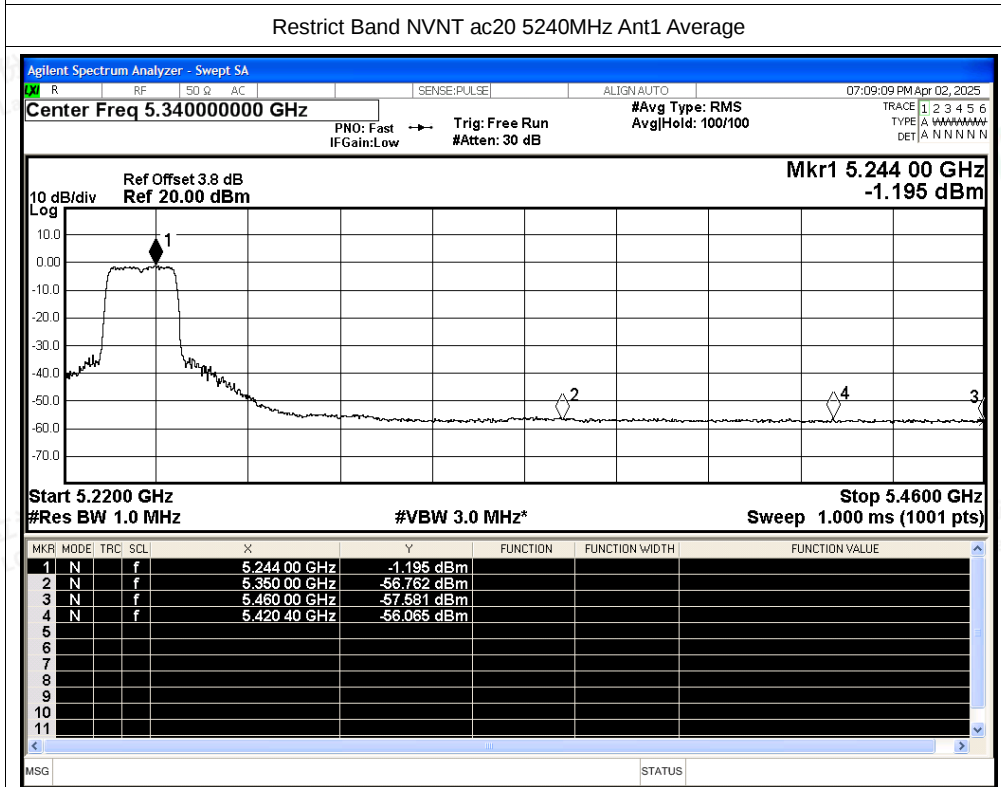
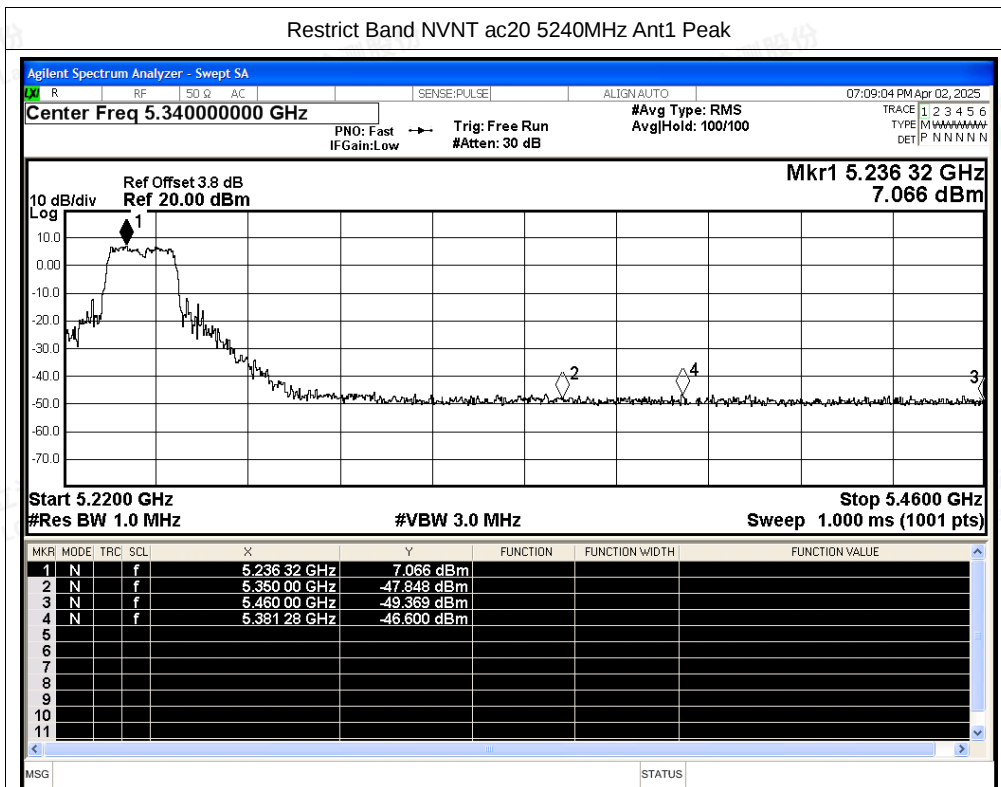
Restrict Band NVNT n40 5230MHz Ant1 Peak

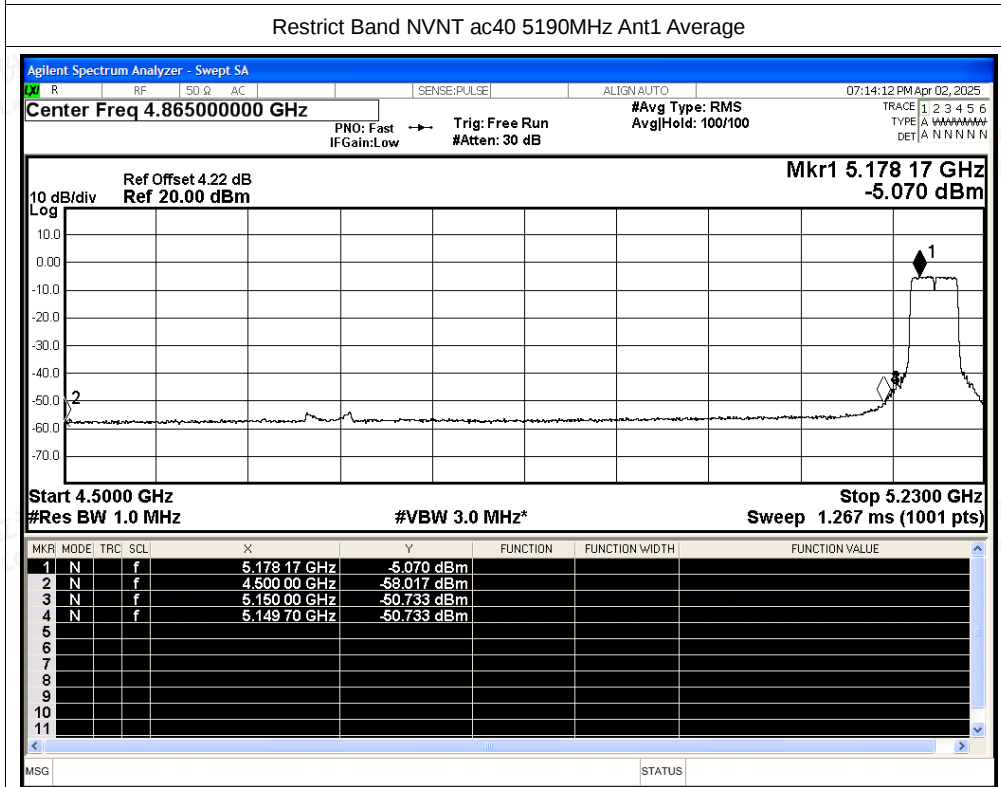
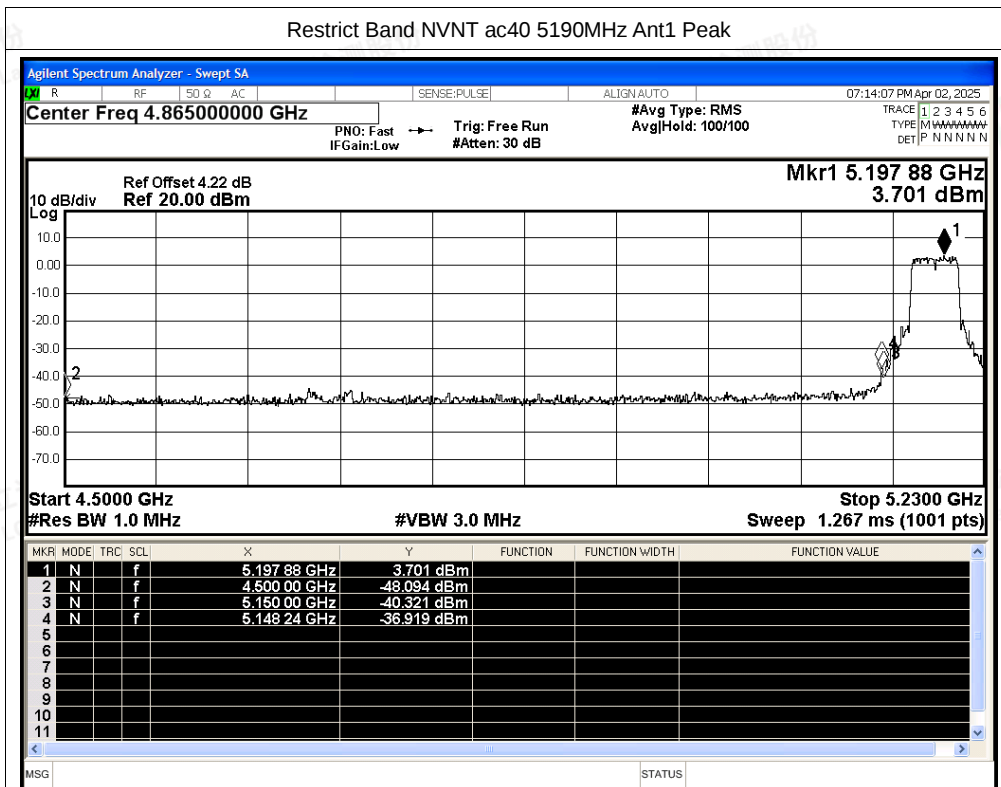


Restrict Band NVNT n40 5230MHz Ant1 Average



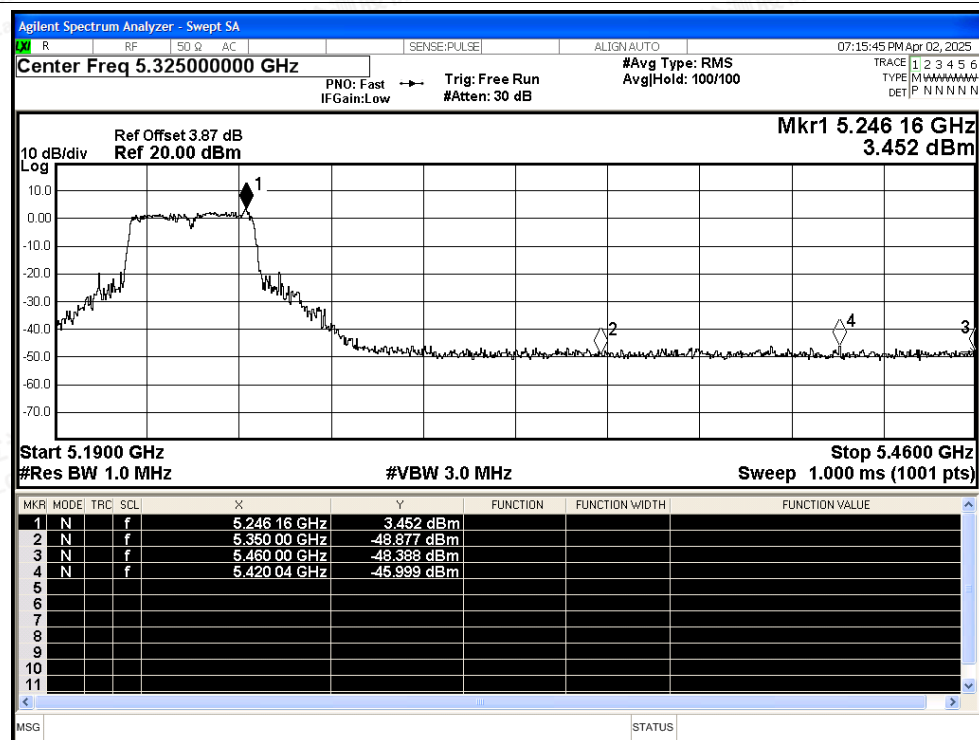




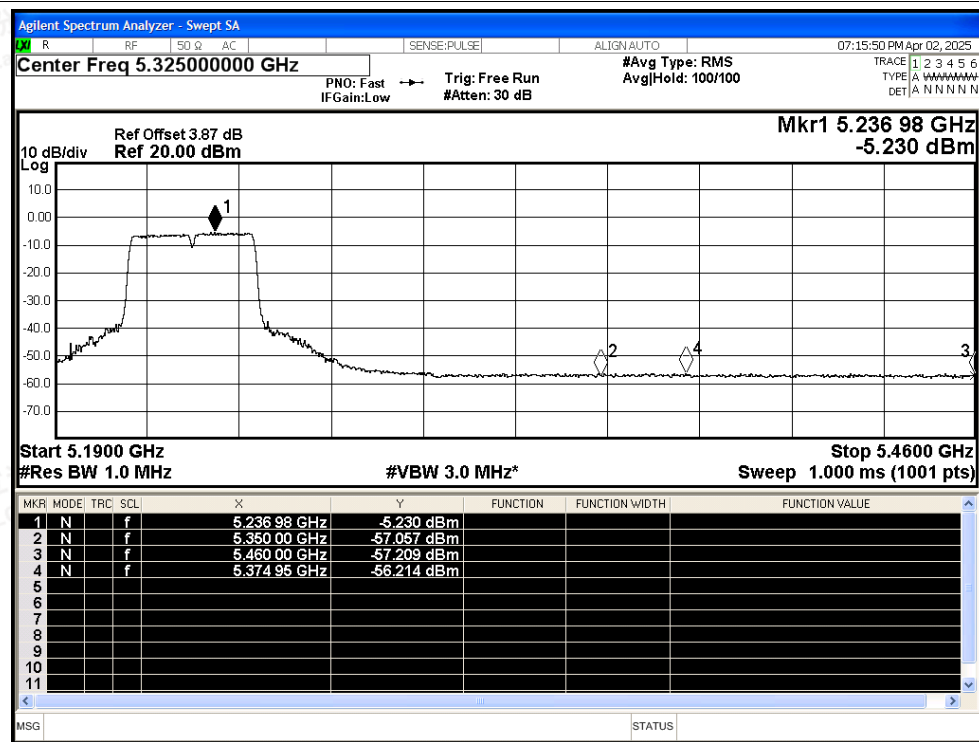


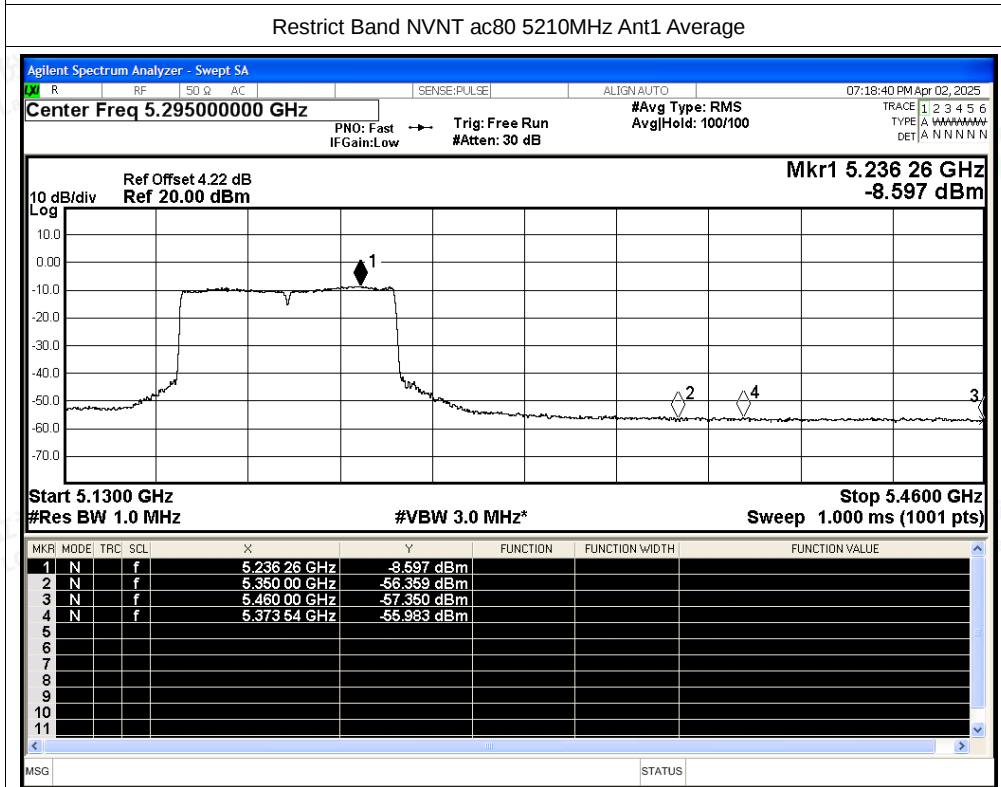
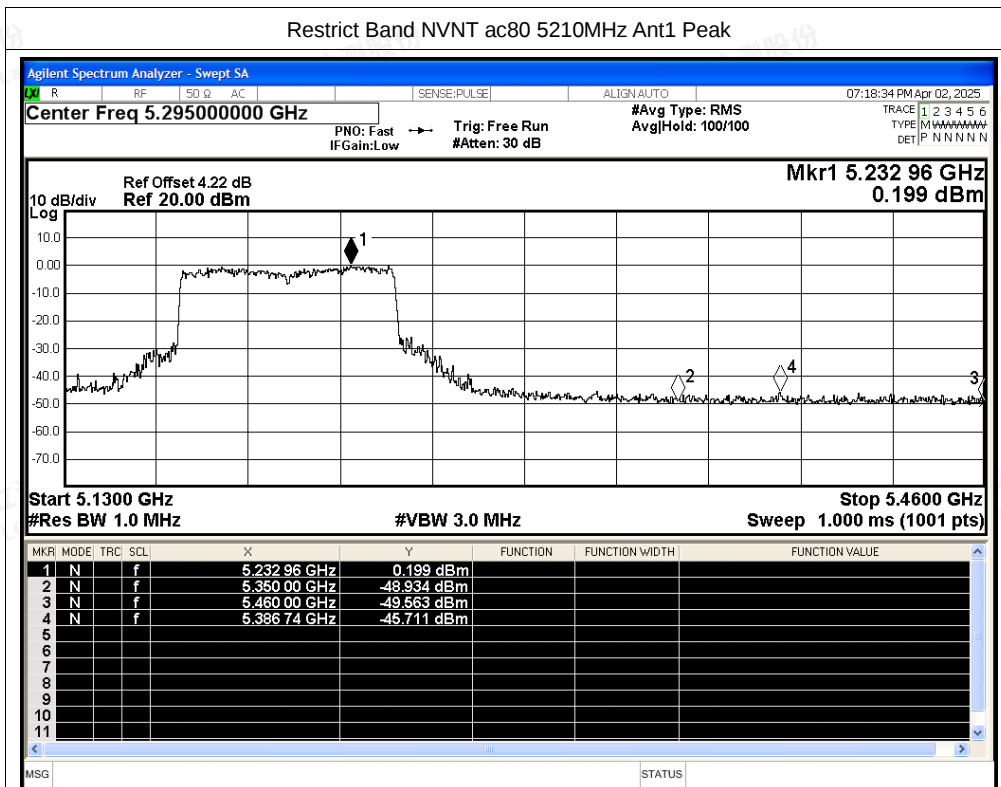


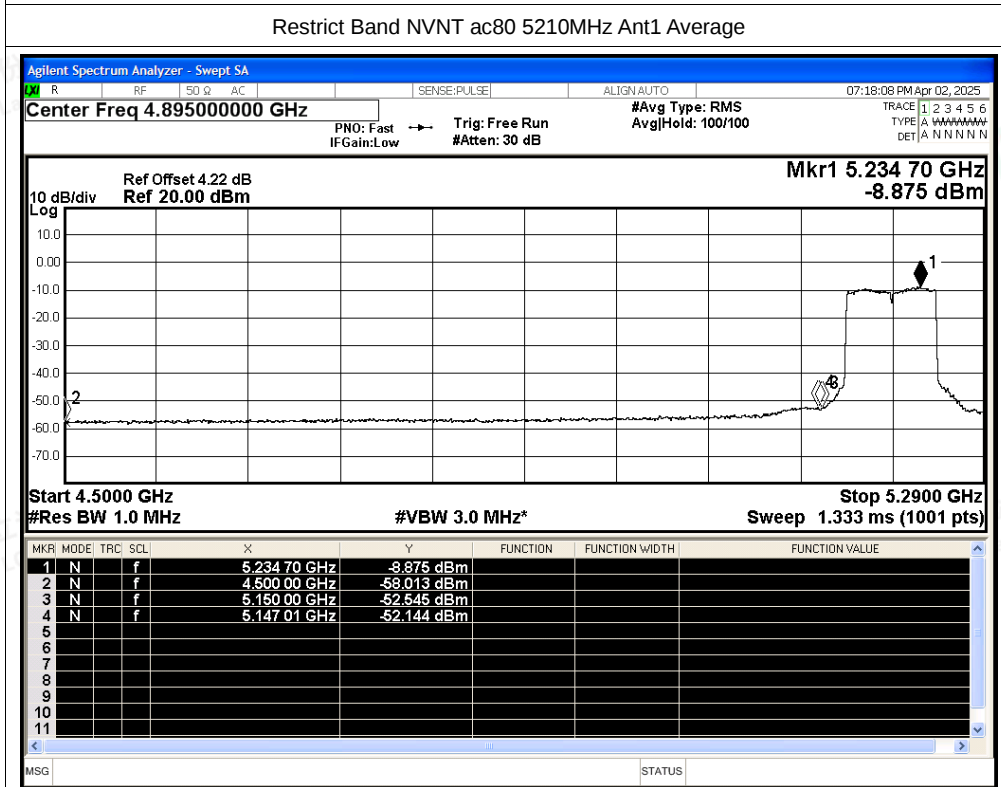
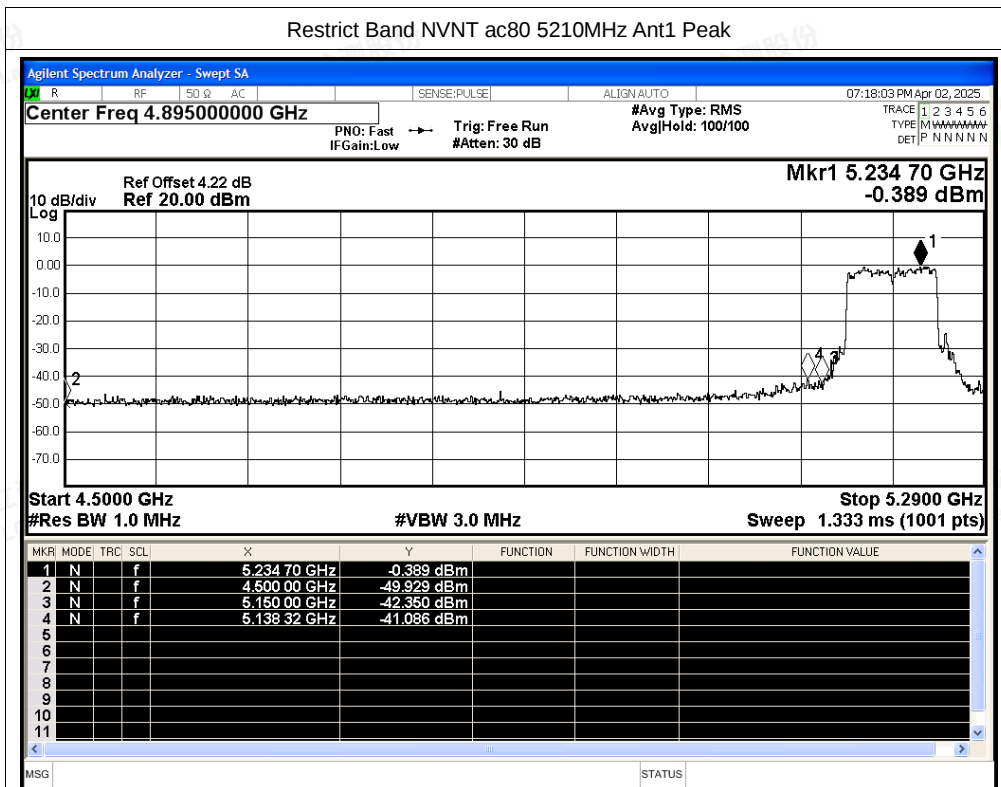
Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 5230MHz Ant1 Average









B.5 Frequency Stability

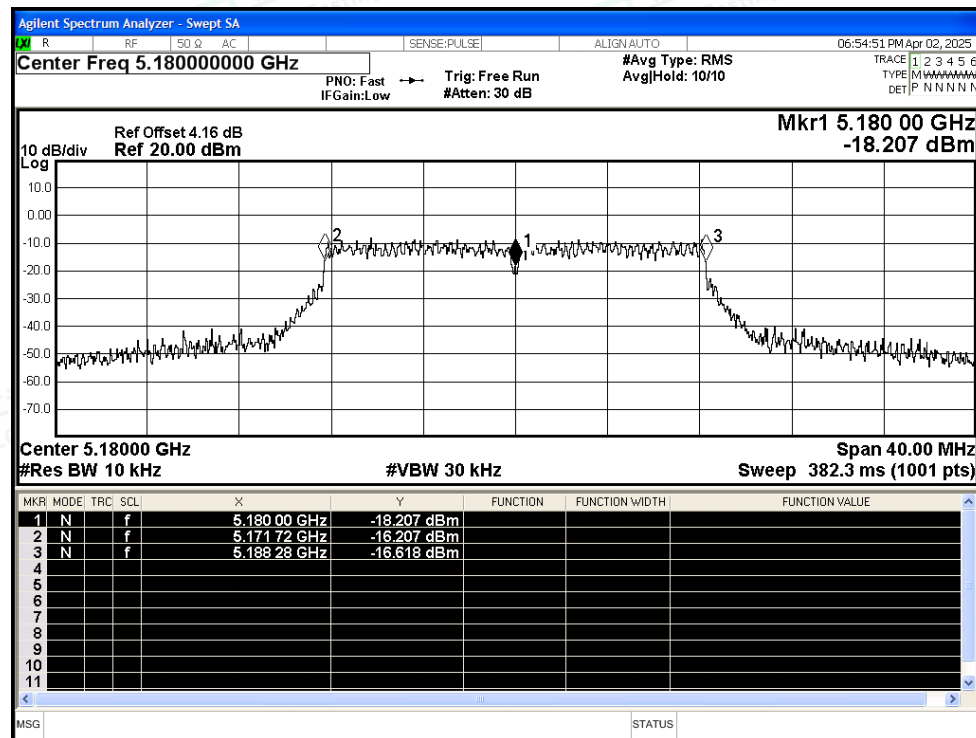
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5200	0	0	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	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
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass



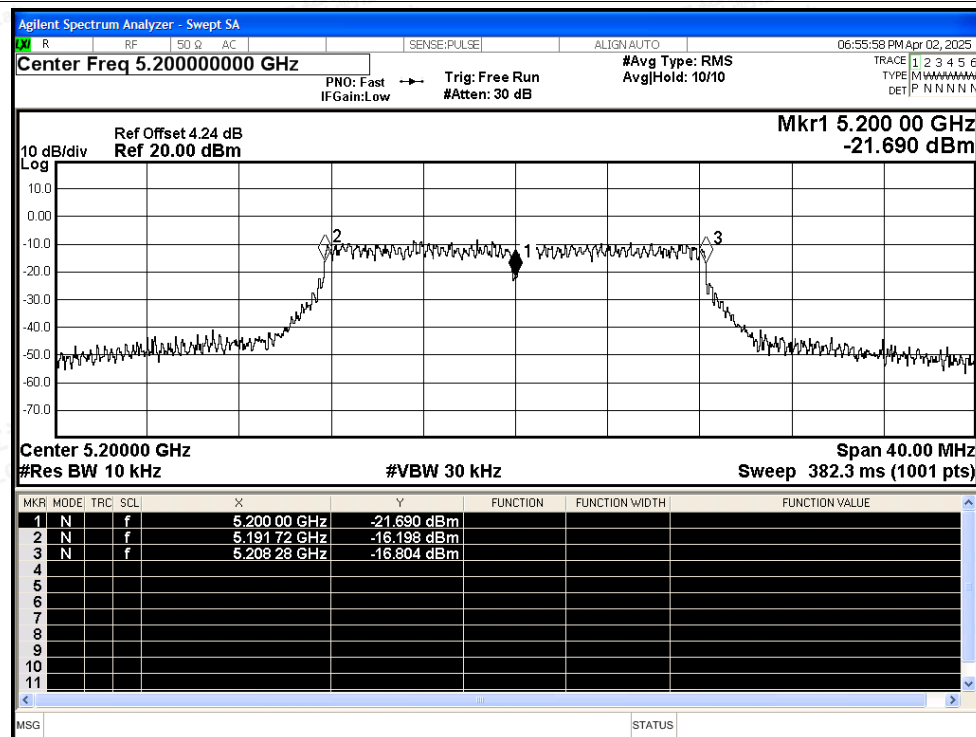


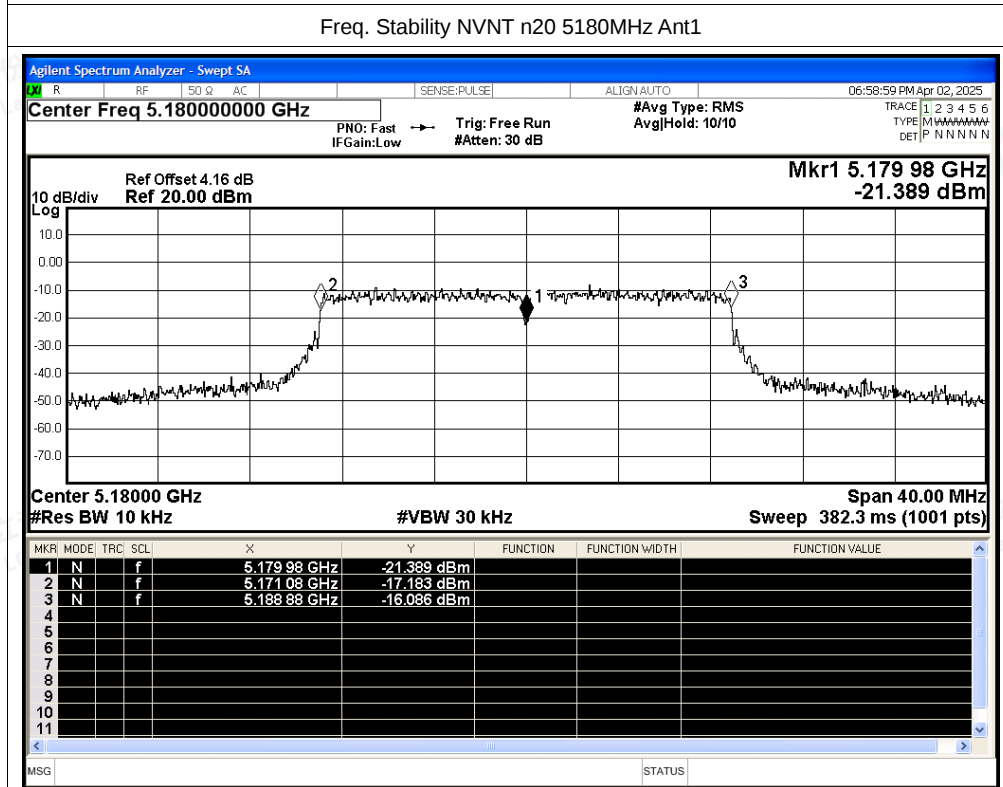
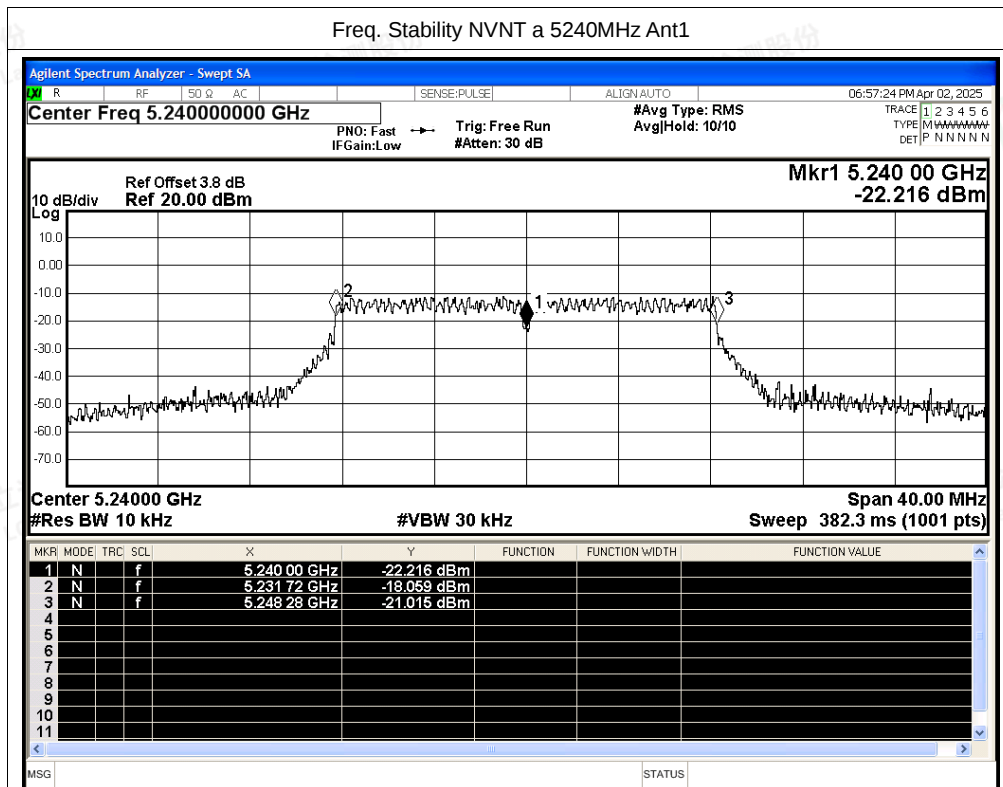
Test Graphs

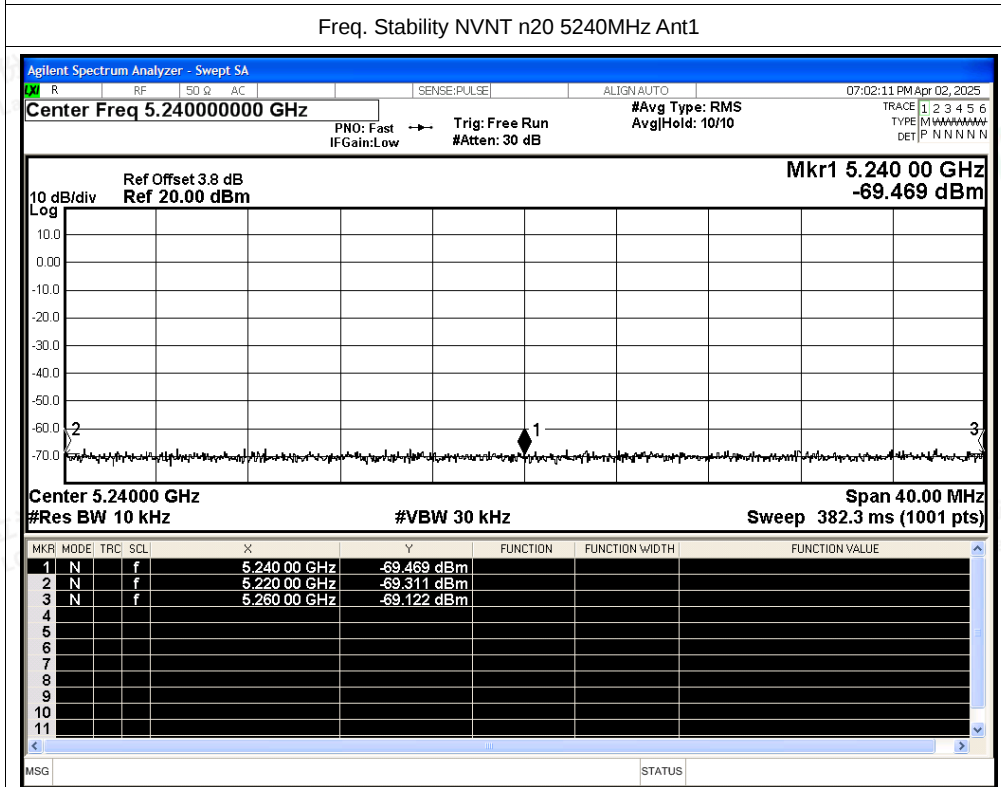
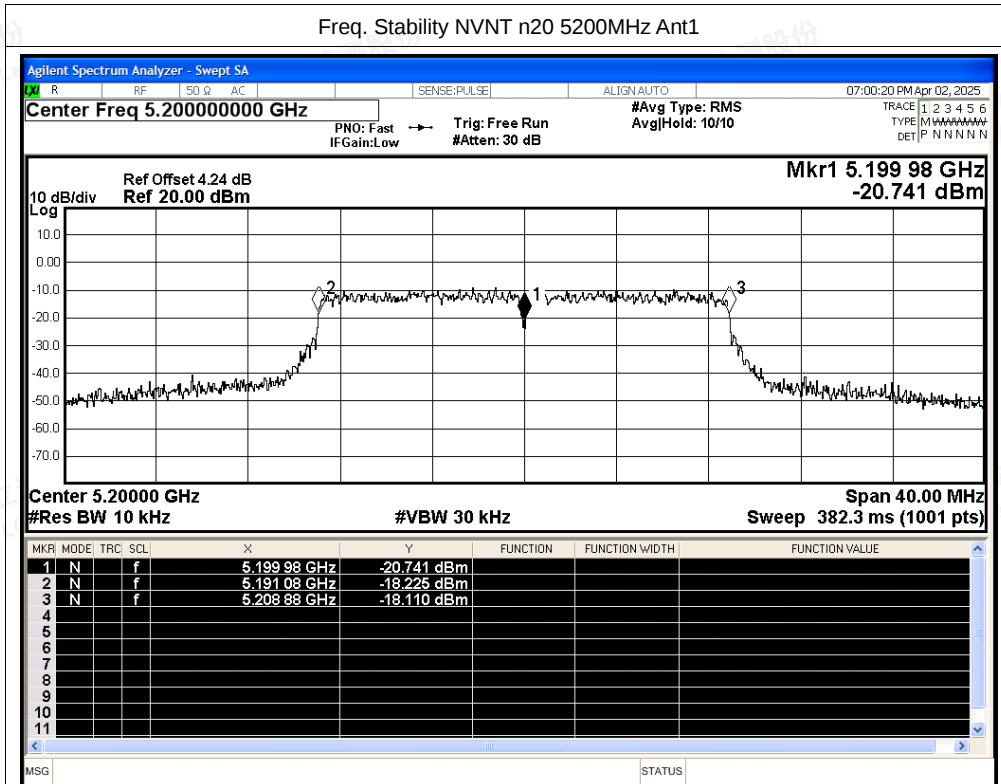
Freq. Stability NVNT a 5180MHz Ant1

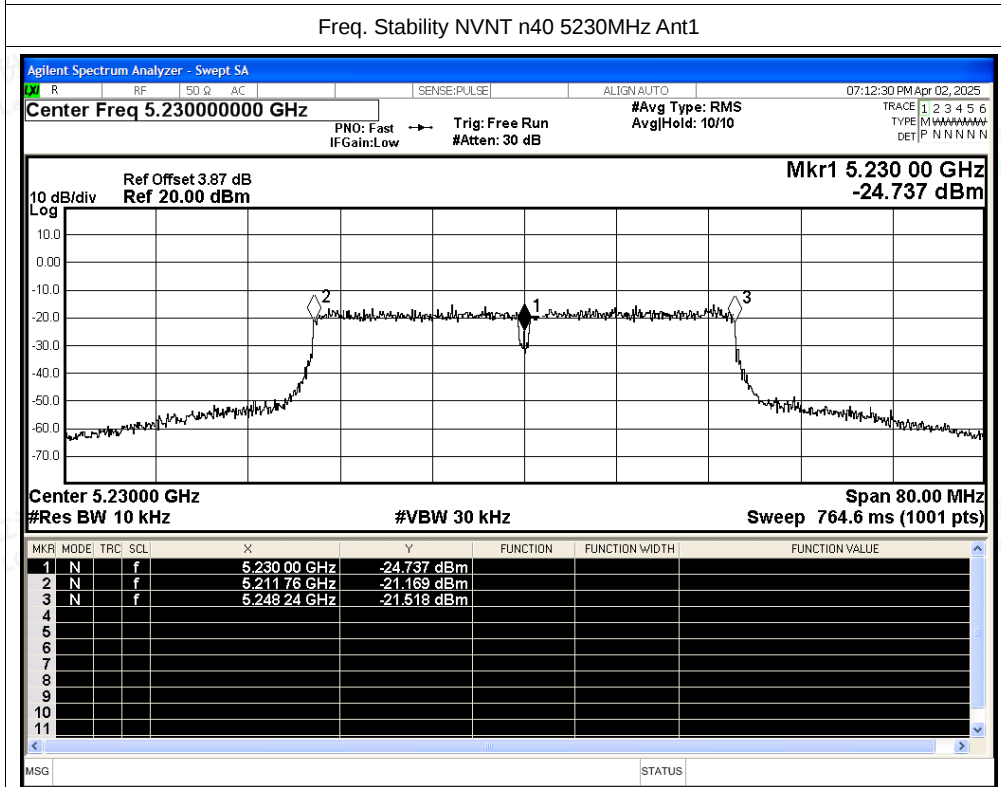
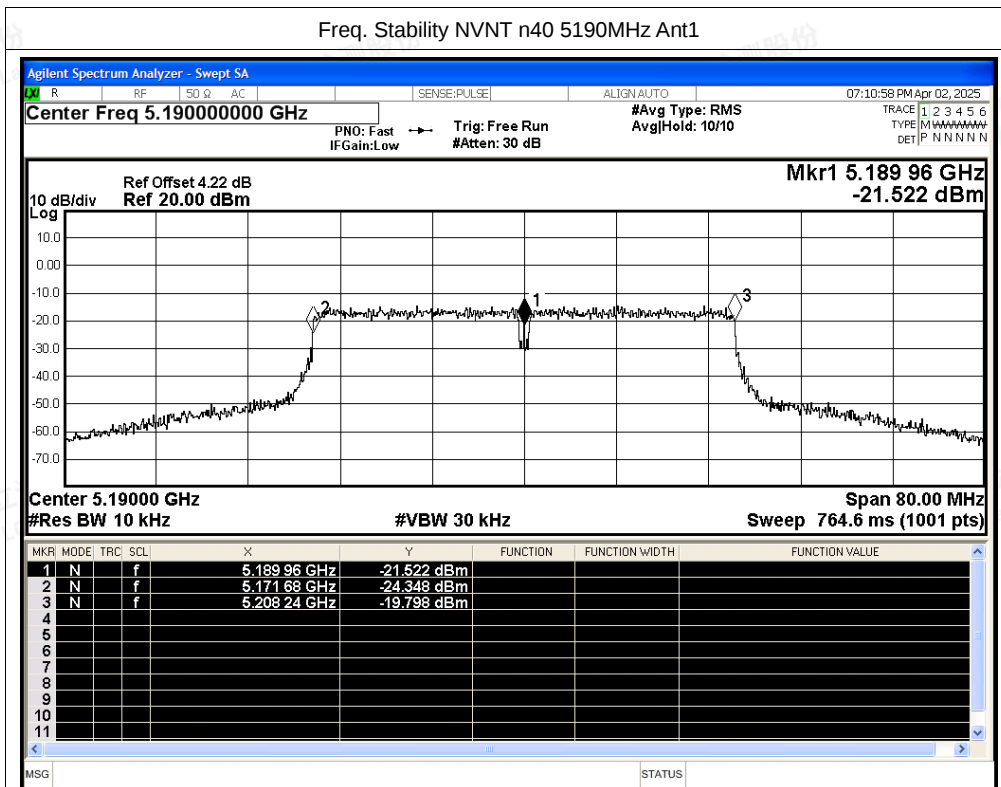


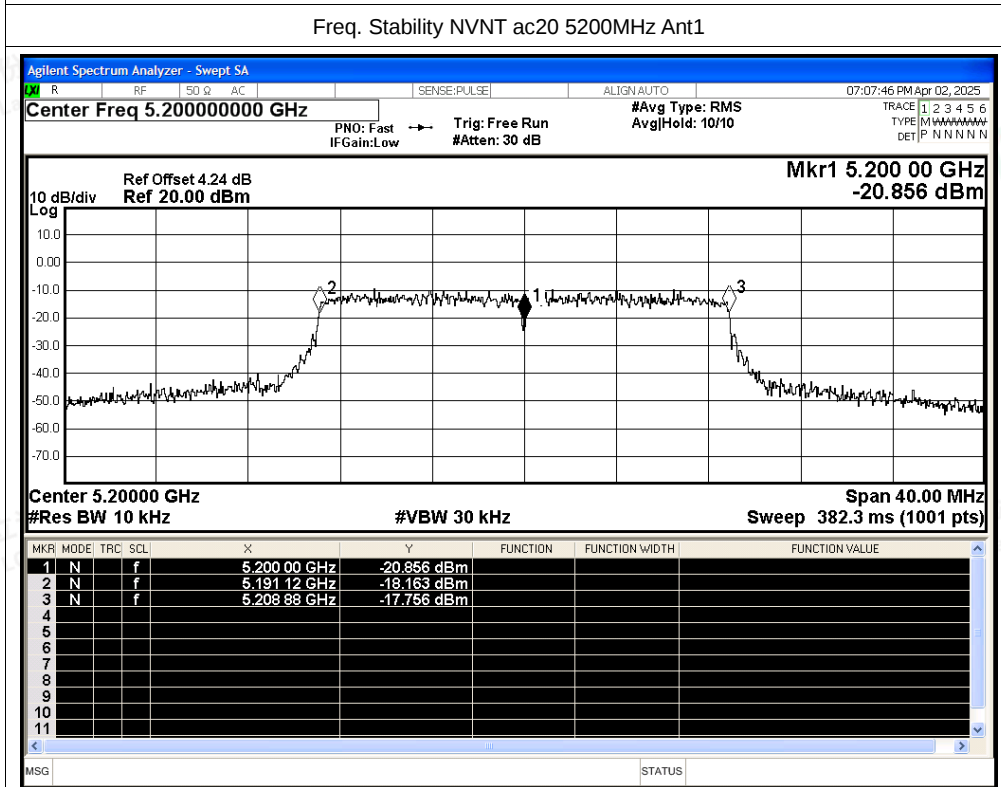
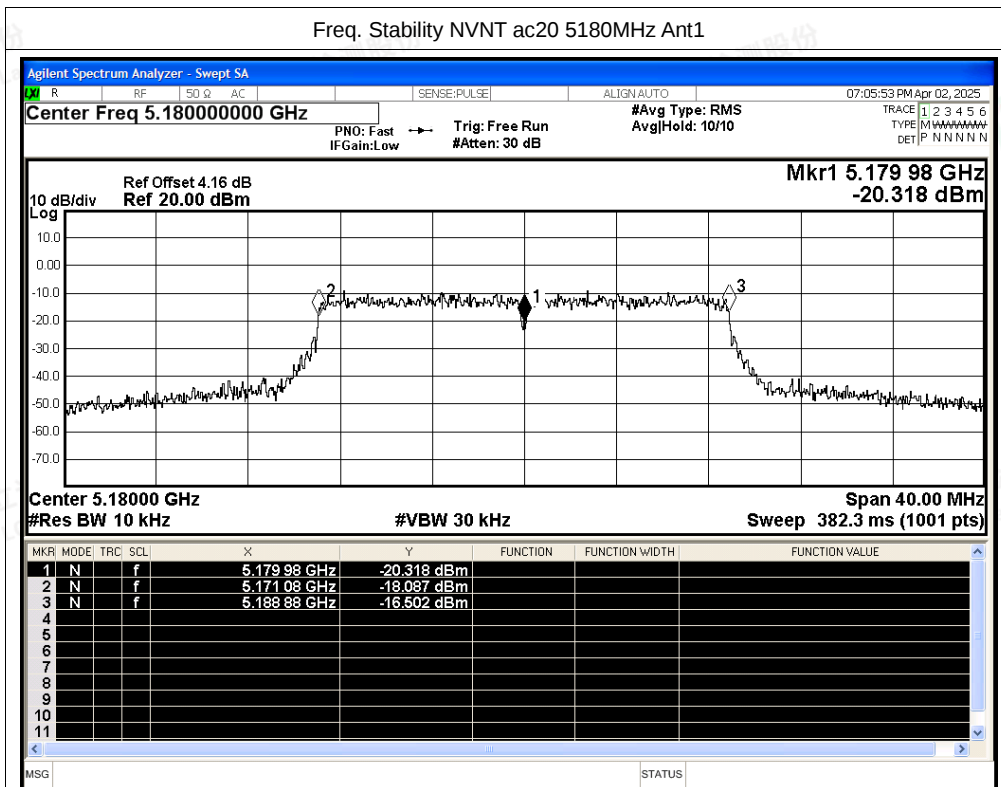
Freq. Stability NVNT a 5200MHz Ant1

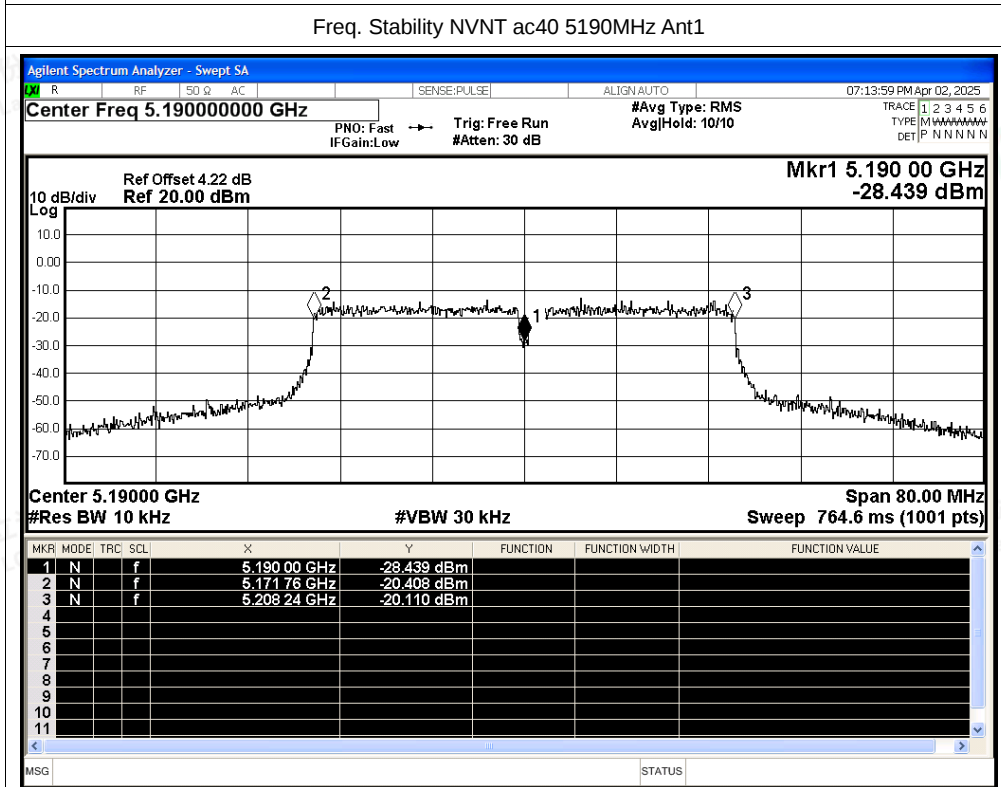
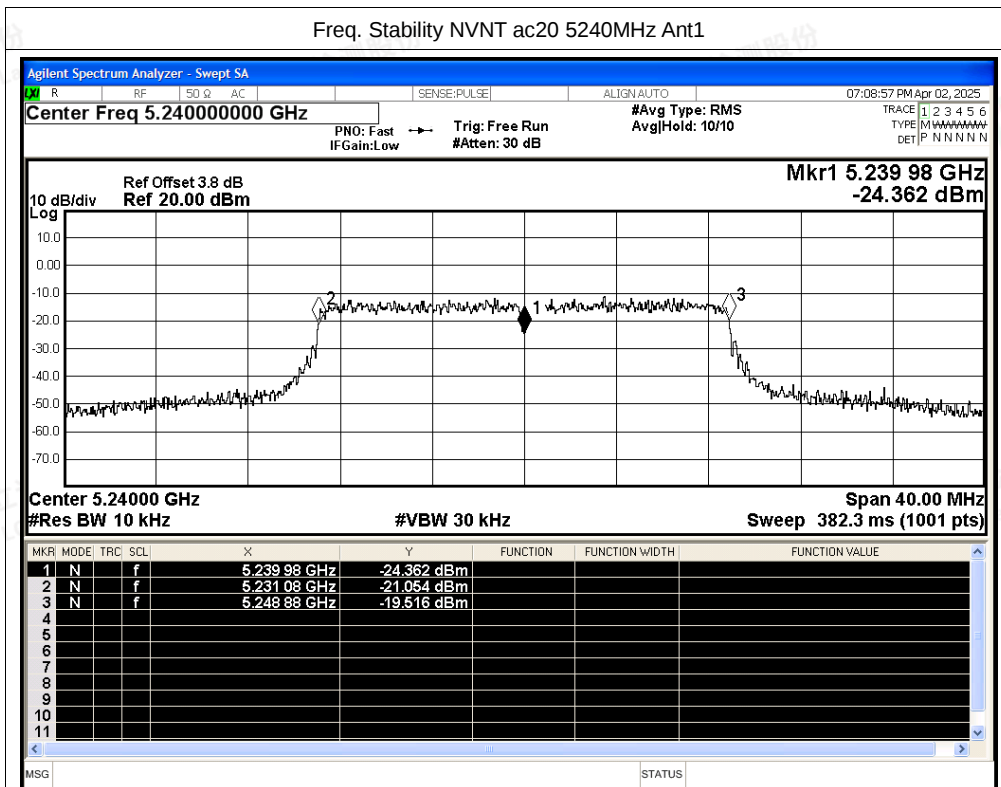


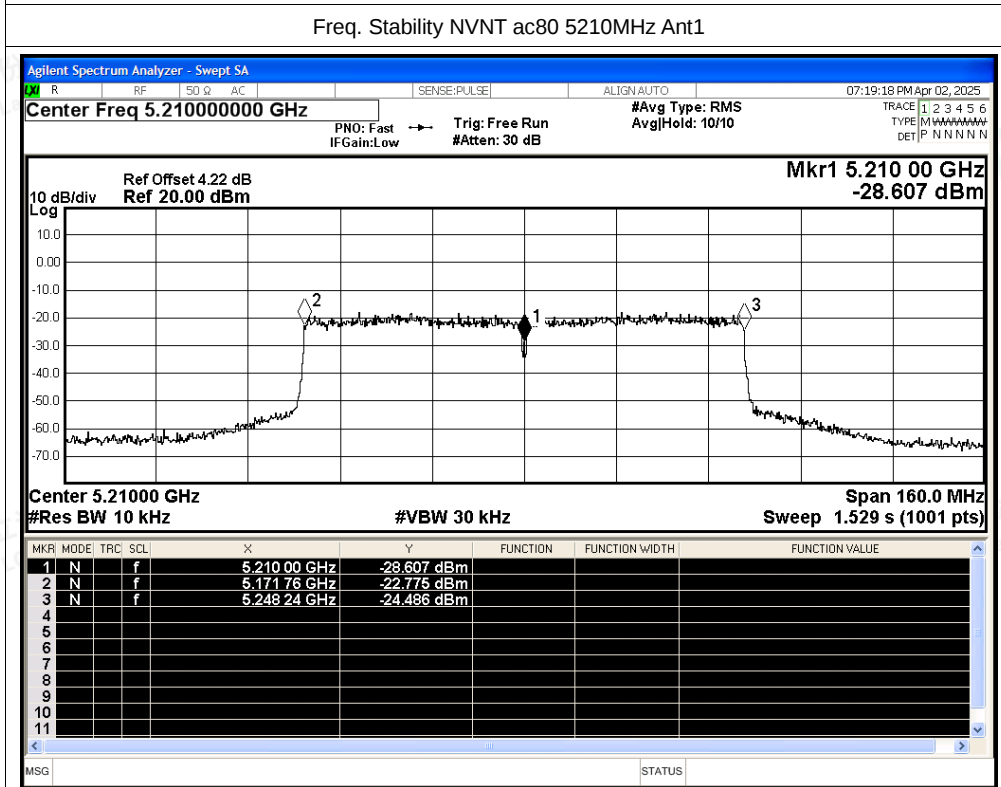
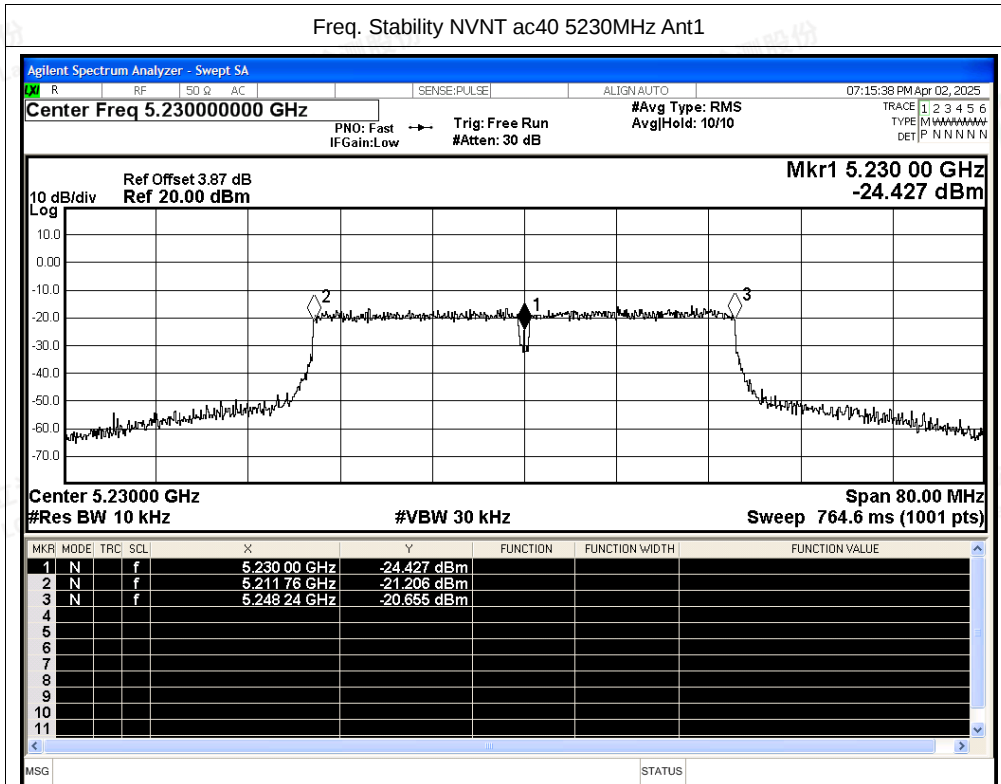


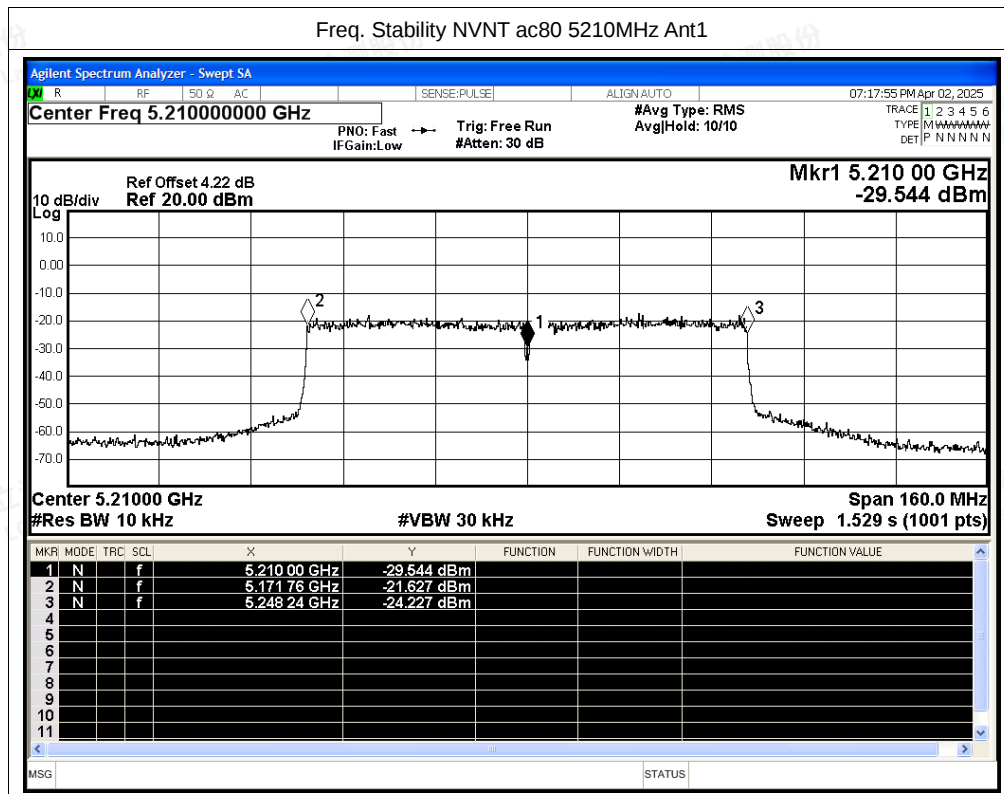














B.6 Duty Cycle

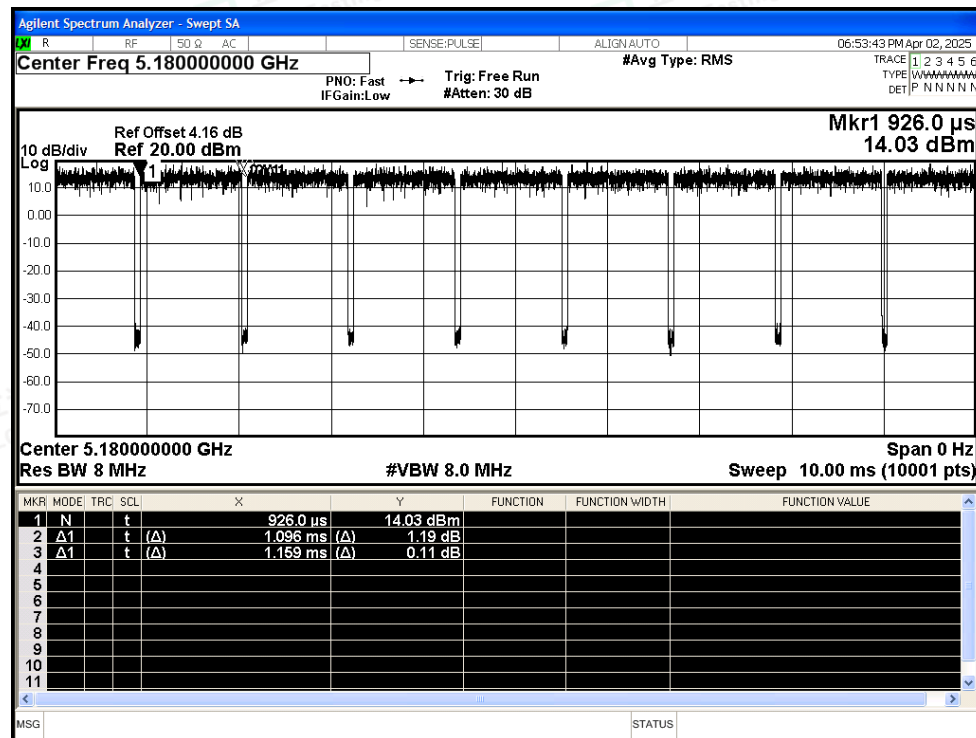
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.56	0.24	0.91
NVNT	a	5200	Ant1	94.65	0.24	0.91
NVNT	a	5240	Ant1	94.56	0.24	0.91
NVNT	n20	5180	Ant1	98.16	0	0.3
NVNT	n20	5200	Ant1	98.16	0	0.3
NVNT	n20	5240	Ant1	98.16	0	0.3
NVNT	n40	5190	Ant1	97.23	0.12	0.46
NVNT	n40	5230	Ant1	97.23	0.12	0.46
NVNT	ac20	5180	Ant1	98.2	0	0.3
NVNT	ac20	5200	Ant1	98.2	0	0.3
NVNT	ac20	5240	Ant1	98.2	0	0.3
NVNT	ac40	5190	Ant1	97.19	0.12	0.46
NVNT	ac40	5230	Ant1	97.24	0.12	0.46
NVNT	ac80	5210	Ant1	94.32	0.25	0.97





Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1

