



Appendix C

RF Test Data for 5.2GWIFI(Conducted Measurement)

Product Name: Car multimedia

Test Model: XY Android 9-inch

Environmental Conditions

Temperature:	23.5° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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C.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	30	≥ 0.5	Pass
NVNT	a	5200	Ant1	30	≥ 0.5	Pass
NVNT	a	5240	Ant1	30	≥ 0.5	Pass
NVNT	n20	5180	Ant1	30	≥ 0.5	Pass
NVNT	n20	5200	Ant1	30	≥ 0.5	Pass
NVNT	n20	5240	Ant1	27.938	≥ 0.5	Pass
NVNT	n40	5190	Ant1	59.992	≥ 0.5	Pass
NVNT	n40	5230	Ant1	60	≥ 0.5	Pass

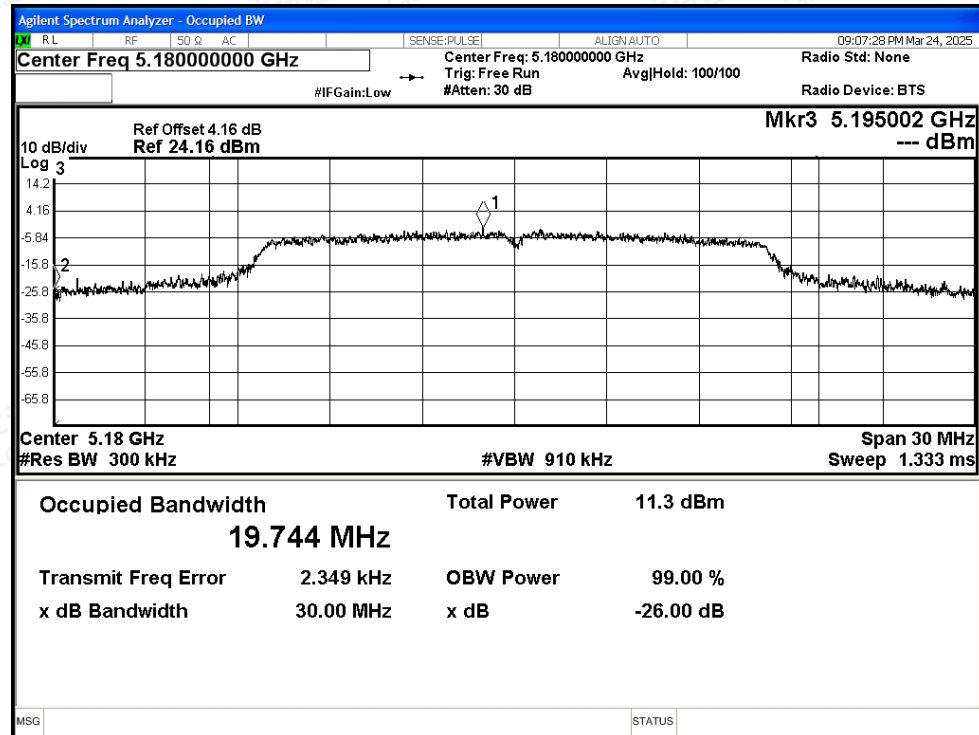


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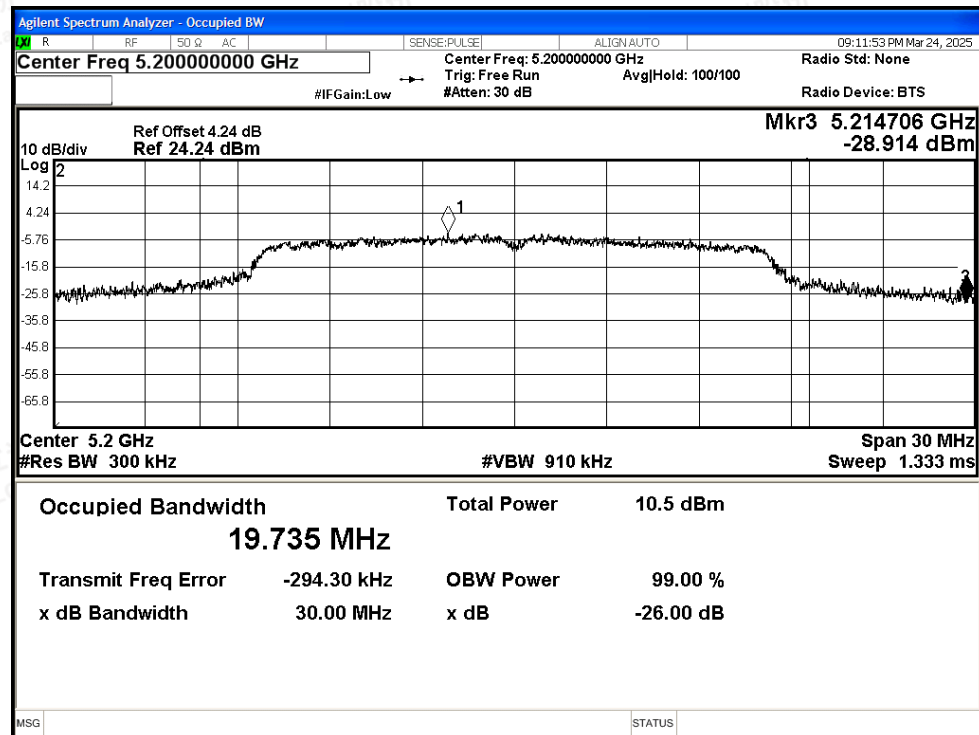


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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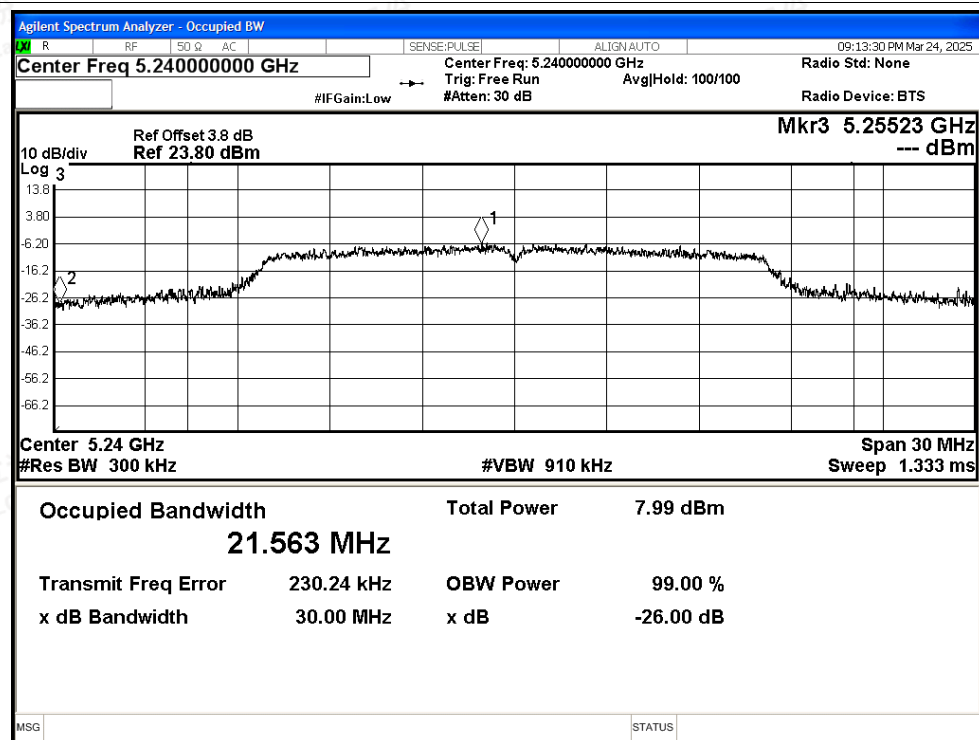
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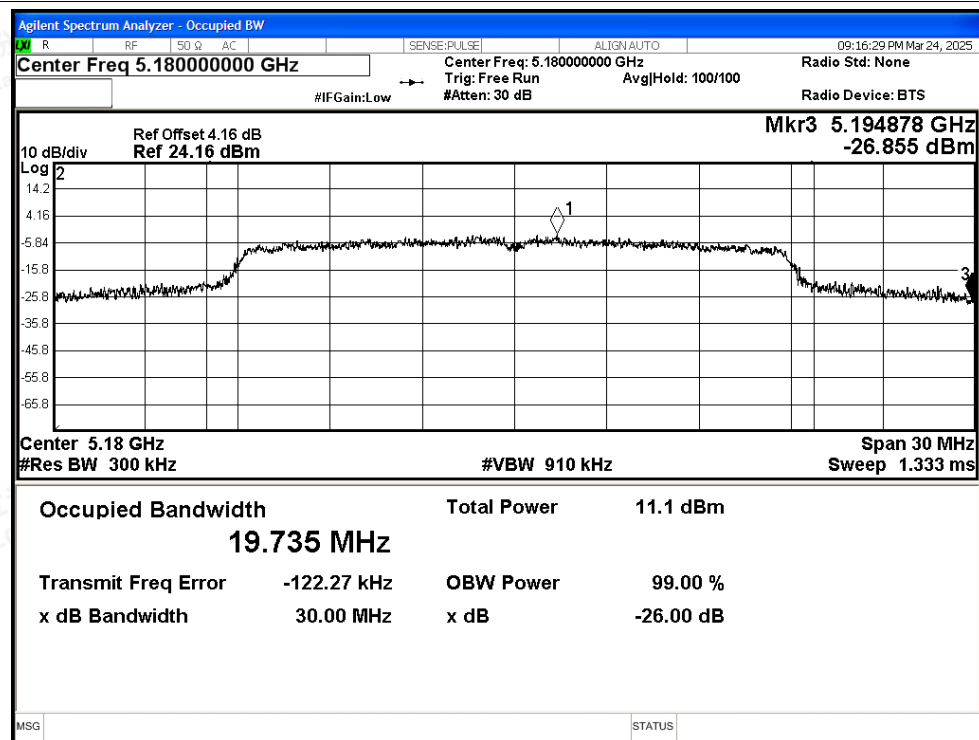
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1

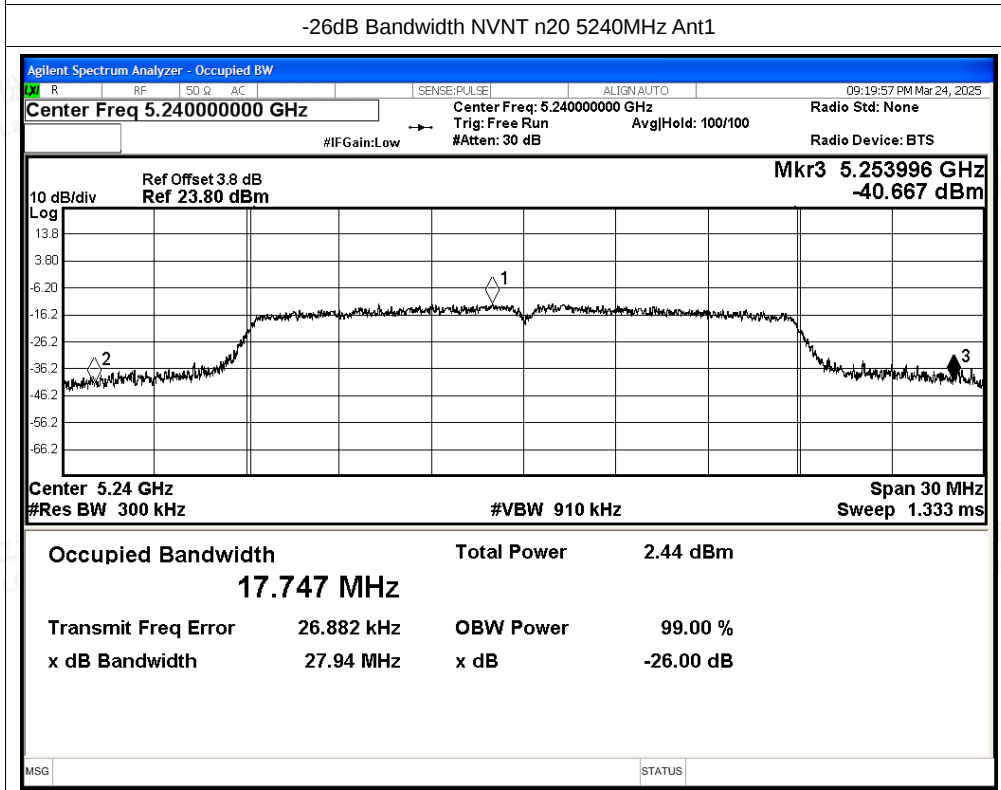
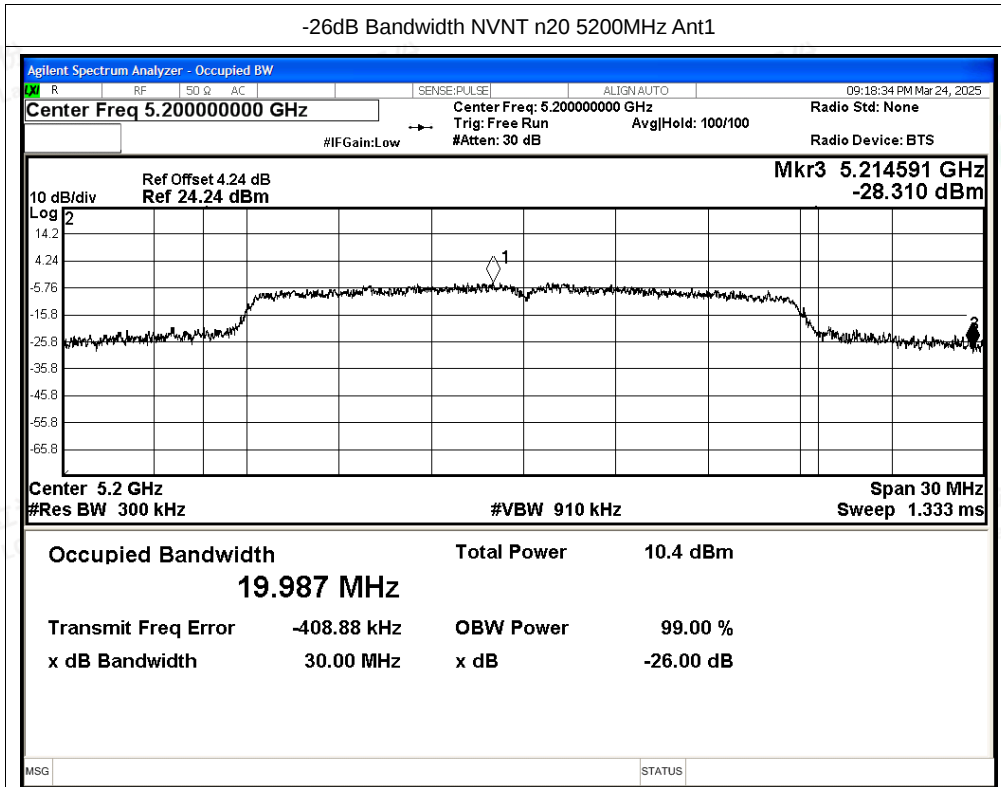


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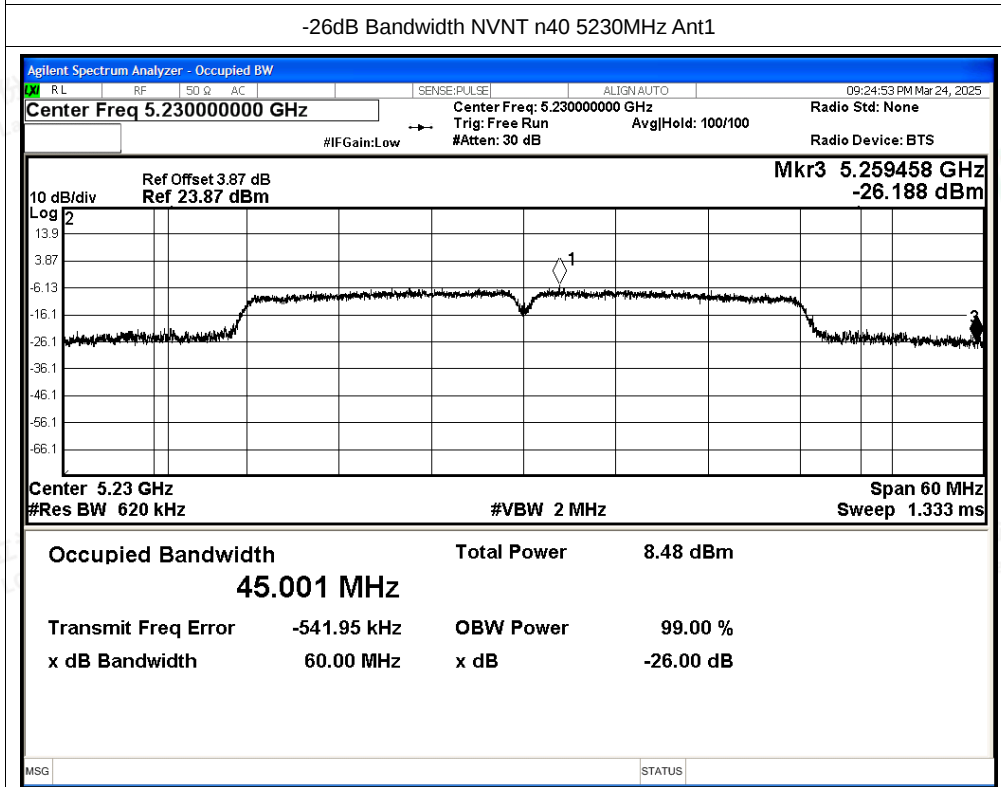
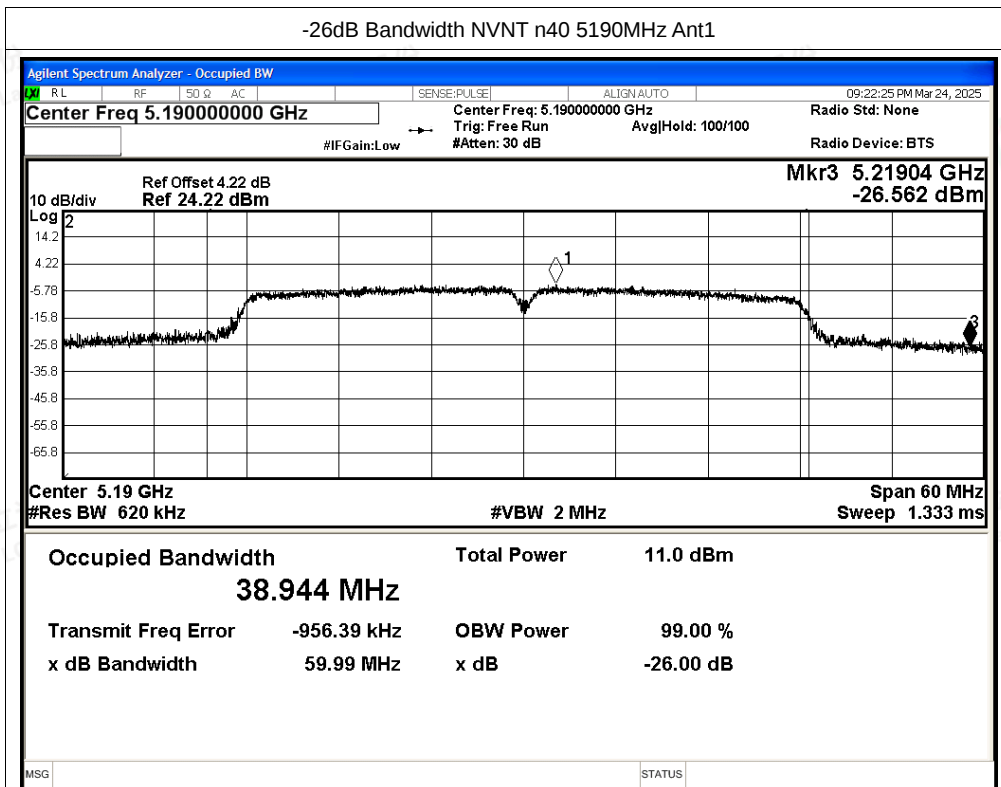


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C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	5.6	0.11	5.71	24	Pass
NVNT	a	5200	Ant1	4.69	0.11	4.80	24	Pass
NVNT	a	5240	Ant1	2.14	0.11	2.25	24	Pass
NVNT	n20	5180	Ant1	5.27	0.12	5.39	24	Pass
NVNT	n20	5200	Ant1	4.62	0.12	4.74	24	Pass
NVNT	n20	5240	Ant1	2.26	0.12	2.38	24	Pass
NVNT	n40	5190	Ant1	4.73	0.23	4.96	24	Pass
NVNT	n40	5230	Ant1	2	0.23	2.23	24	Pass



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C.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5180	Ant1	-4.18	0.11	-4.07	11	Pass
NVNT	a	5200	Ant1	-4.64	0.11	-4.53	11	Pass
NVNT	a	5240	Ant1	-10.57	0.11	-10.46	11	Pass
NVNT	n20	5180	Ant1	-4.5	0.12	-4.38	11	Pass
NVNT	n20	5200	Ant1	-5.1	0.12	-4.98	11	Pass
NVNT	n20	5240	Ant1	-13.16	0.12	-13.04	11	Pass
NVNT	n40	5190	Ant1	-8.48	0.23	-8.25	11	Pass
NVNT	n40	5230	Ant1	-11.13	0.23	-10.9	11	Pass

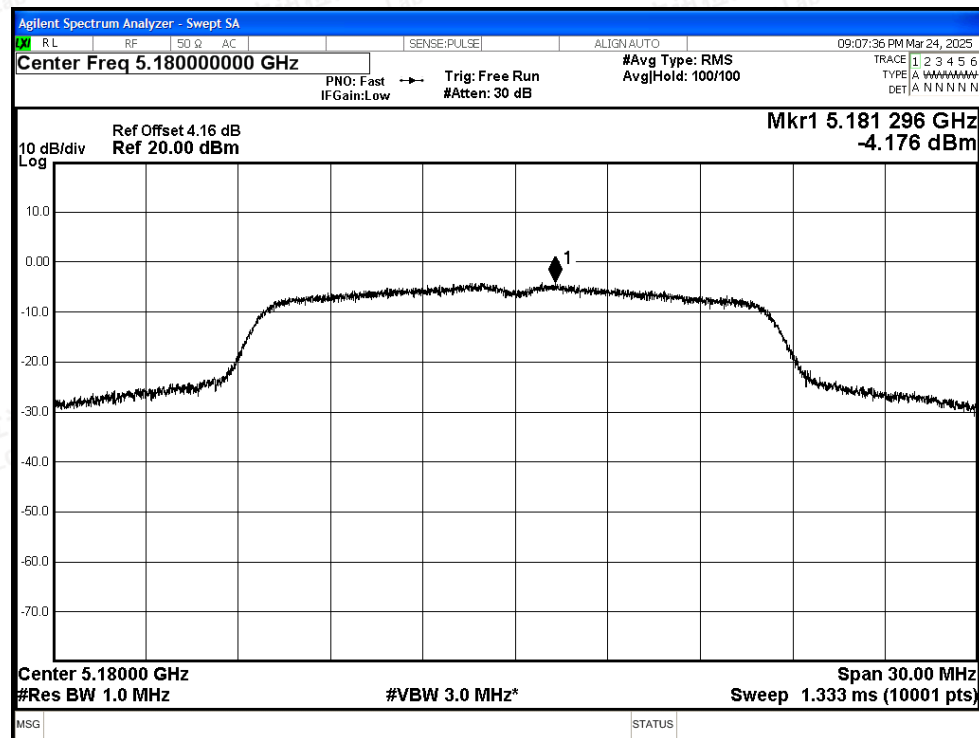


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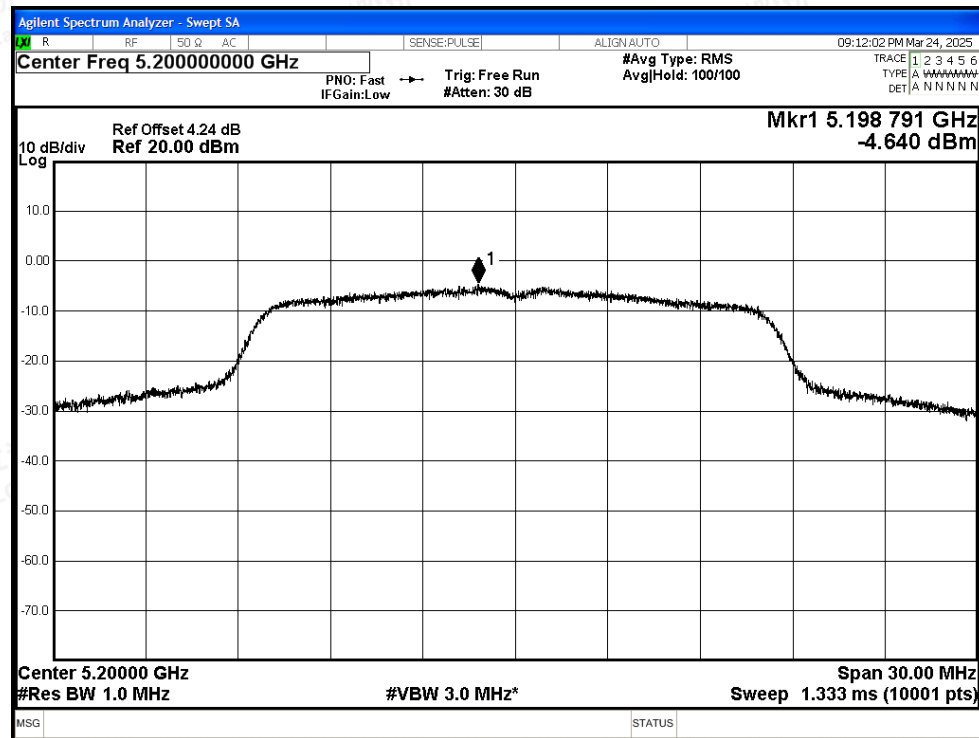


Test Graphs

PSD NVNT a 5180MHz Ant1



PSD NVNT a 5200MHz Ant1



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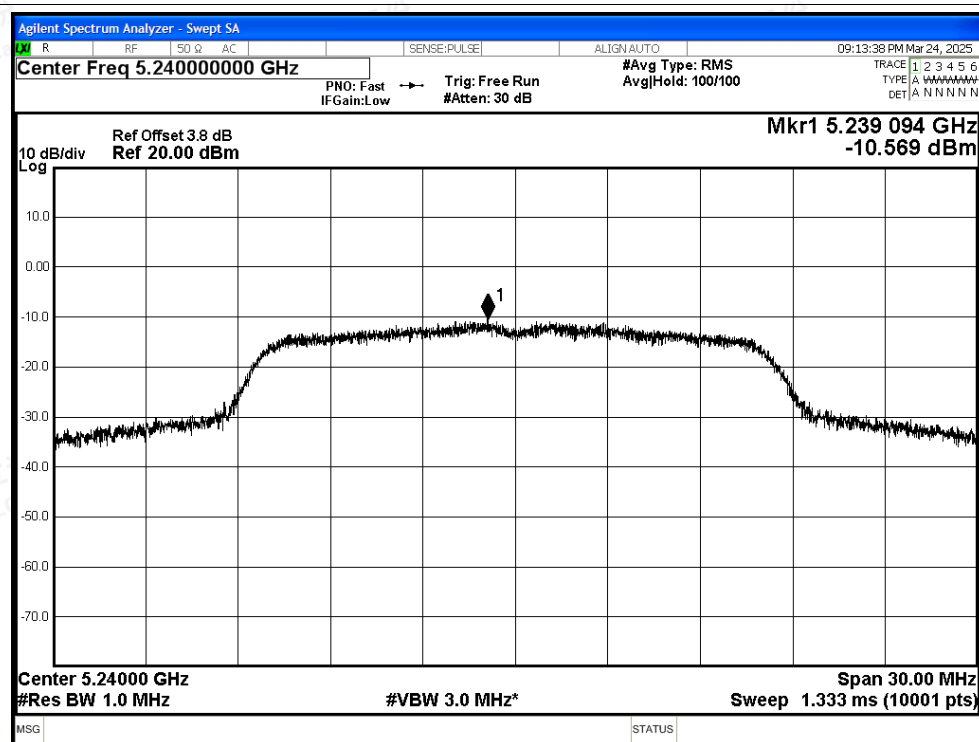
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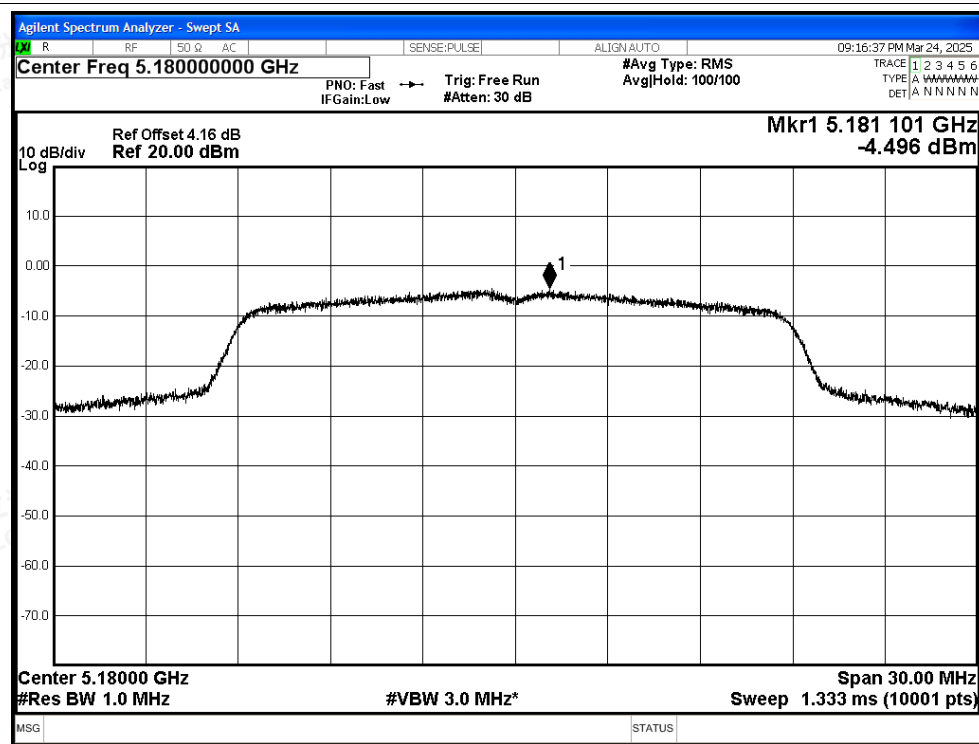
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PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

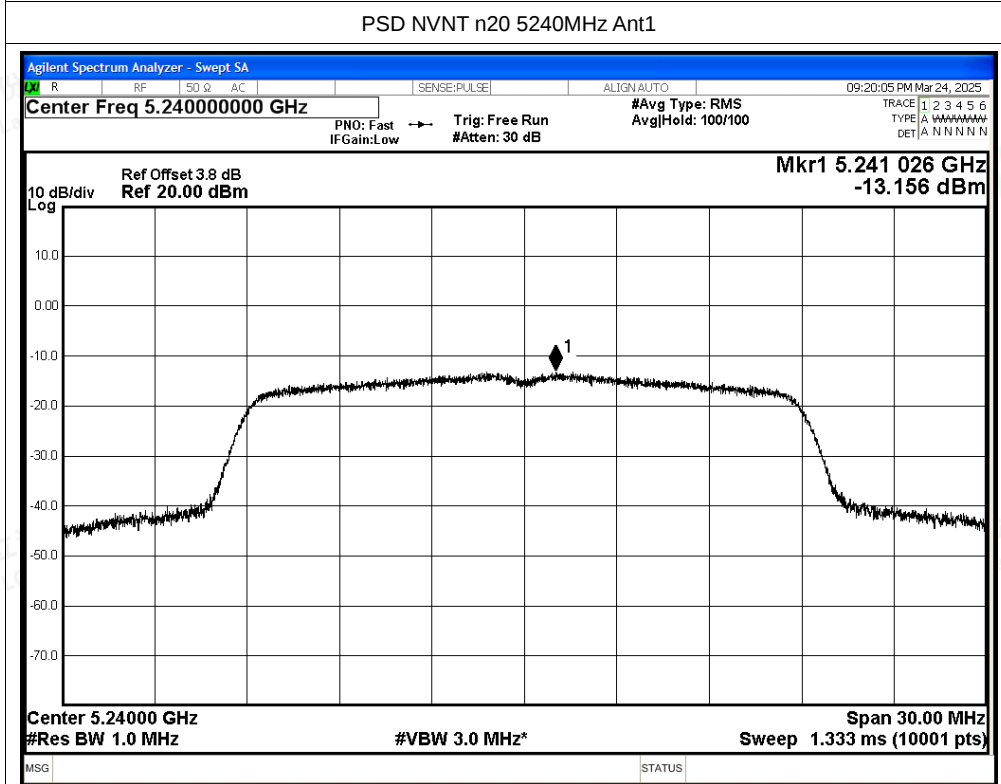
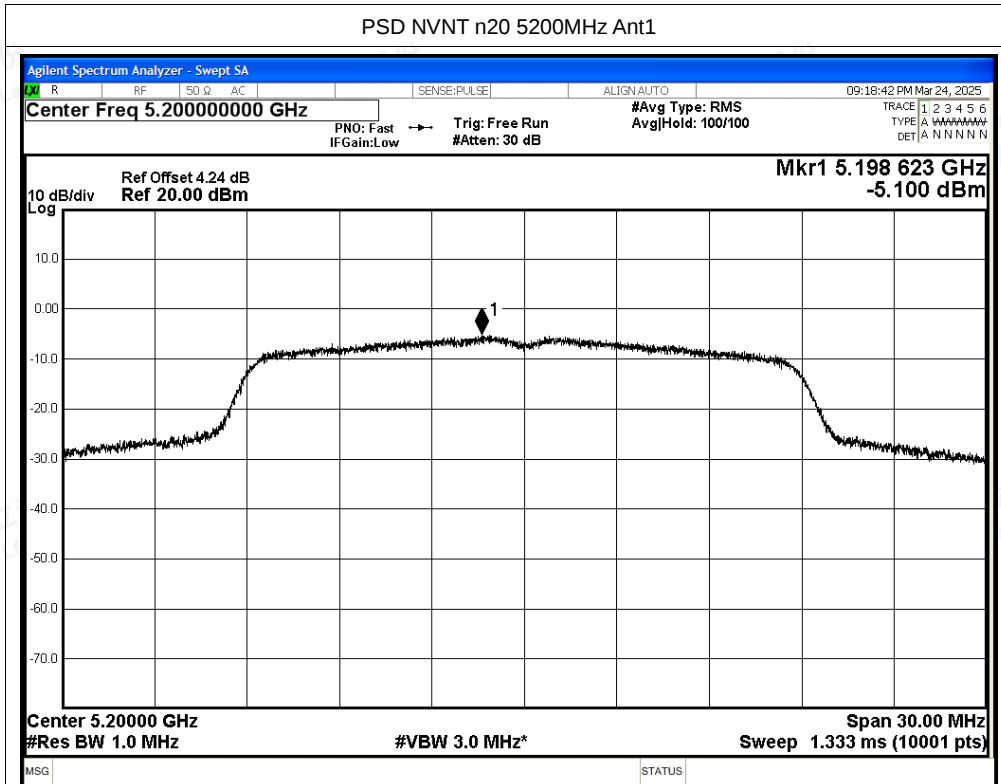


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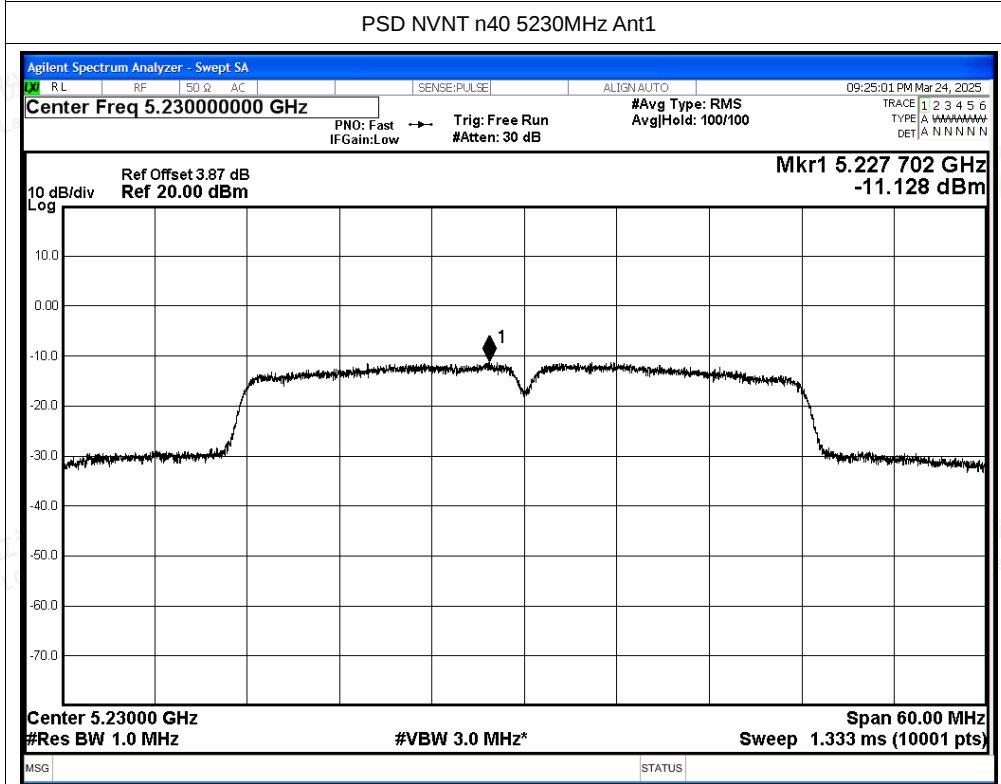
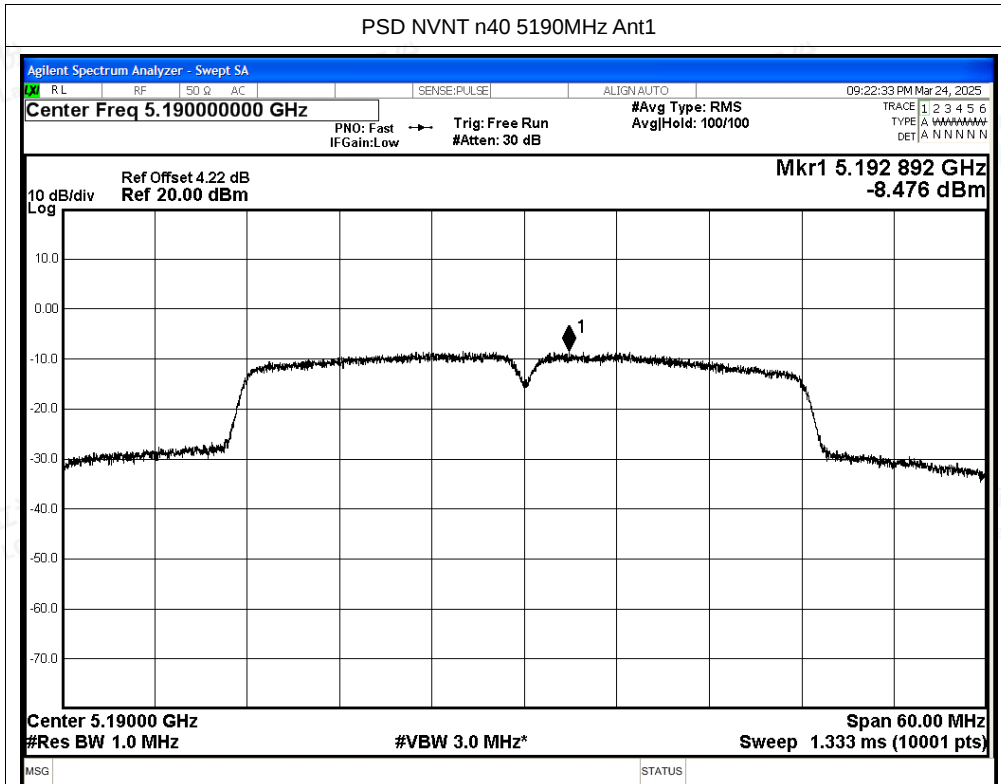


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C.4 Restrict Band

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	-48.61	2	-	48.62	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-58.32	2	0.11	39.02	Average	54	Pass
NVNT	a	5180	Ant1	5043.9	-45.02	2	-	52.21	Peak	68.2	Pass
NVNT	a	5180	Ant1	5099.2	-55.52	2	0.11	41.82	Average	54	Pass
NVNT	a	5180	Ant1	5150	-48.95	2	-	48.28	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-56.45	2	0.11	40.89	Average	54	Pass
NVNT	a	5240	Ant1	5350	-48.62	2	-	48.61	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.93	2	0.11	40.41	Average	54	Pass
NVNT	a	5240	Ant1	5384.64	-46.49	2	-	50.74	Peak	68.2	Pass
NVNT	a	5240	Ant1	5393.04	-56.46	2	0.11	40.88	Average	54	Pass
NVNT	a	5240	Ant1	5460	-48.72	2	-	48.51	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.28	2	0.11	40.06	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.6	2	-	47.63	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.18	2	0.12	40.17	Average	54	Pass
NVNT	n20	5180	Ant1	5095	-44.96	2	-	52.27	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5117.4	-55.52	2	0.12	41.83	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-48.19	2	-	49.04	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-56.43	2	0.12	40.92	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-50.14	2	-	47.09	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.26	2	0.12	40.09	Average	54	Pass
NVNT	n20	5240	Ant1	5455.92	-45.74	2	-	51.49	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5380.32	-56.36	2	0.12	40.99	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-48.94	2	-	48.29	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.76	2	0.12	40.59	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.86	2	-	47.37	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.8	2	0.23	39.66	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-38.55	2	-	58.68	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5148.97	-50.56	2	0.23	46.9	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-38.55	2	-	58.68	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-50.66	2	0.23	46.8	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.31	2	-	47.92	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.1	2	0.23	40.36	Average	54	Pass
NVNT	n40	5230	Ant1	5435.16	-46.03	2	-	51.2	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5395.74	-56.34	2	0.23	41.12	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-46.64	2	-	50.59	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.31	2	0.23	40.15	Average	54	Pass



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C.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	5180	0	0	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	5190	0	0	25	Pass
NVNT	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass

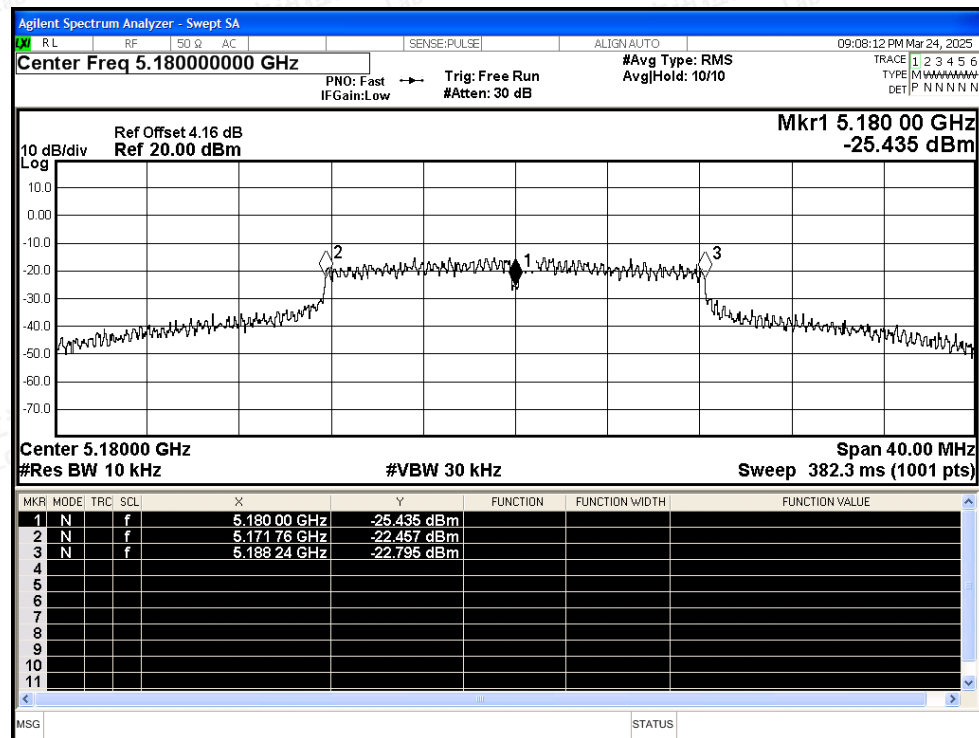


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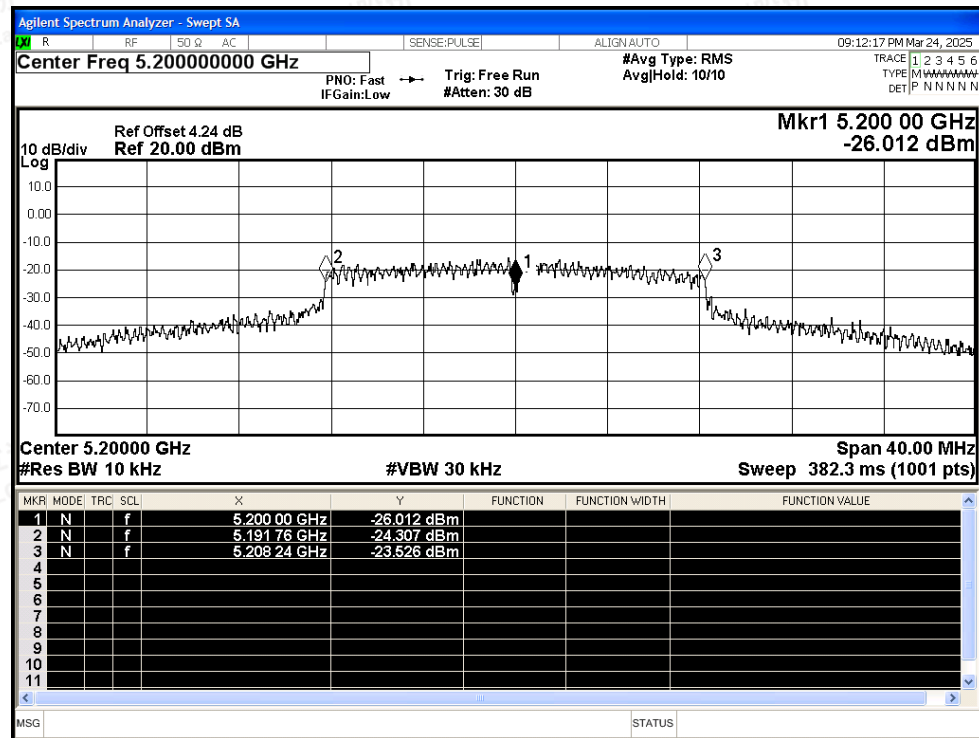


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1



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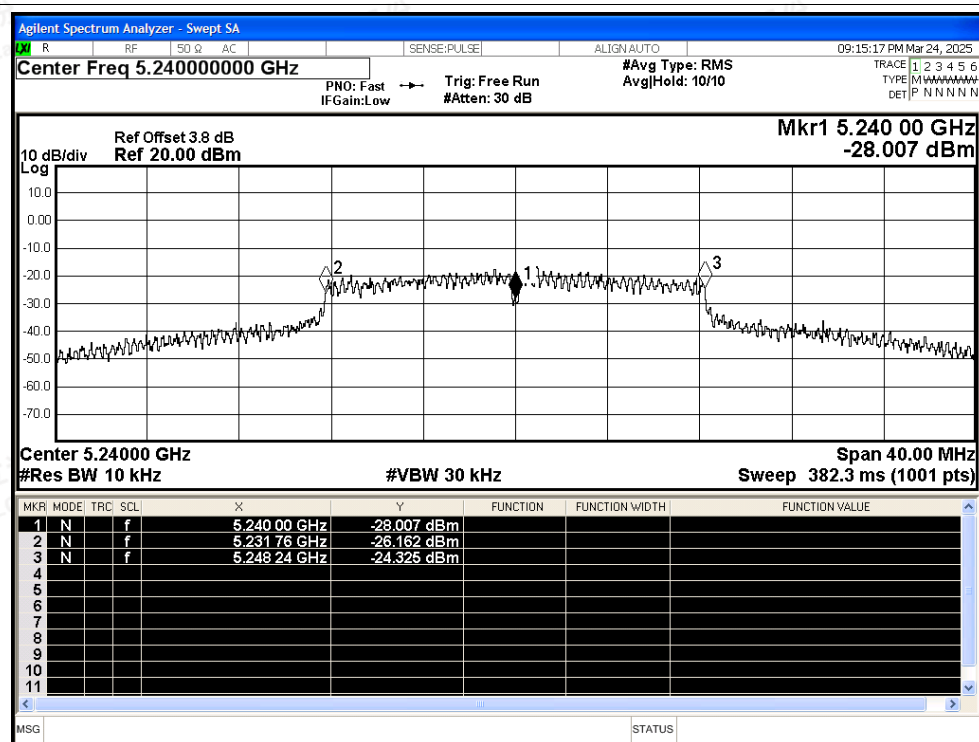
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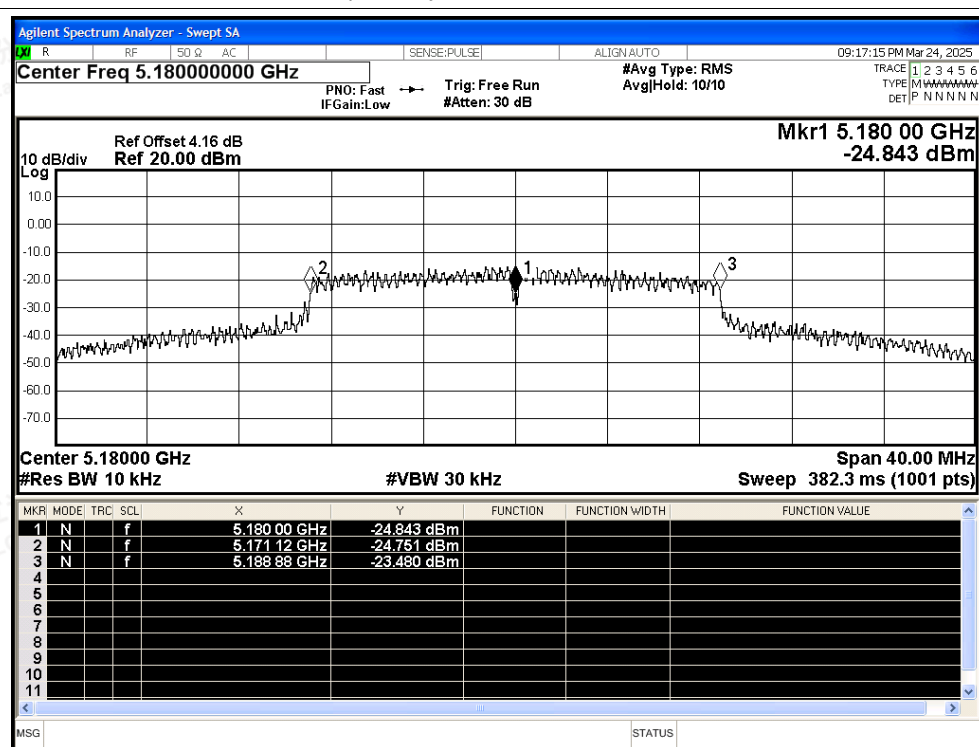
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Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1



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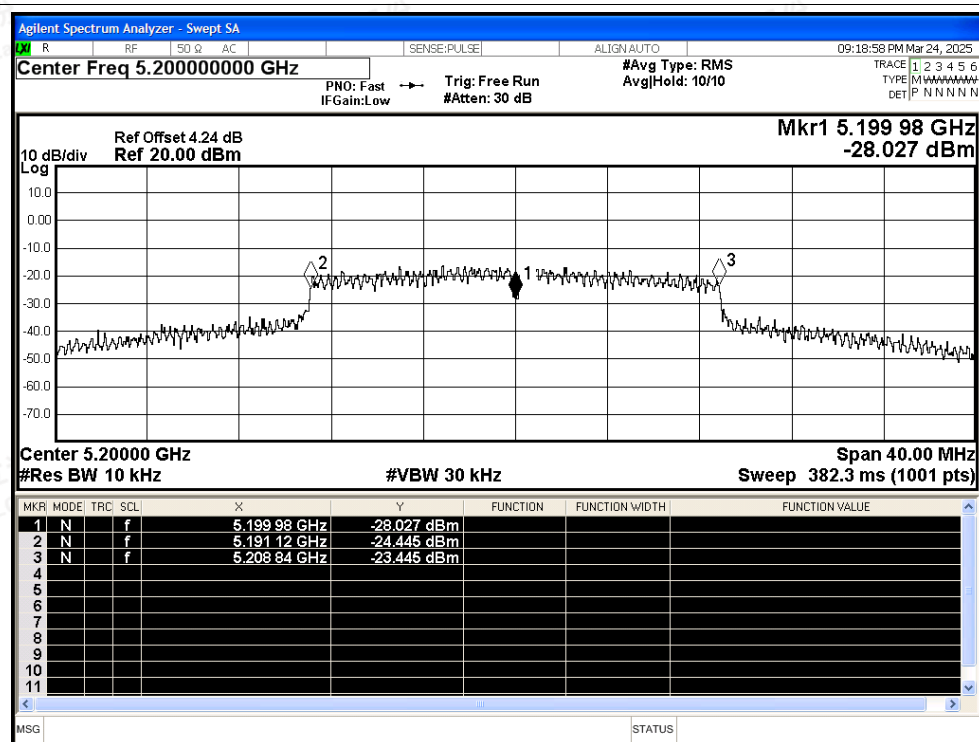
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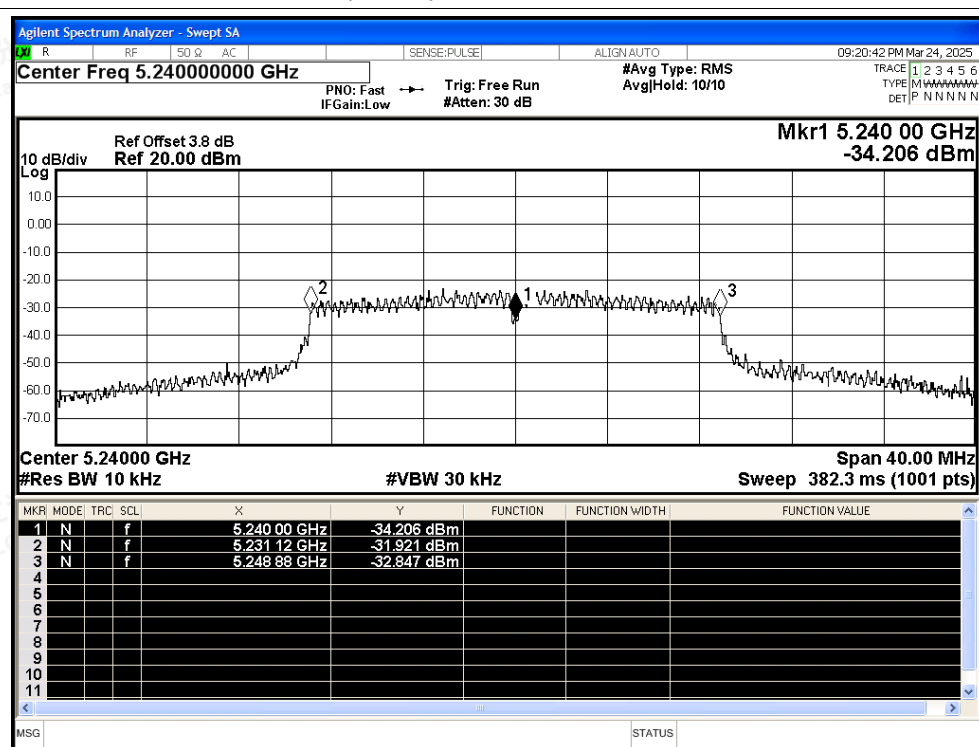
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Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



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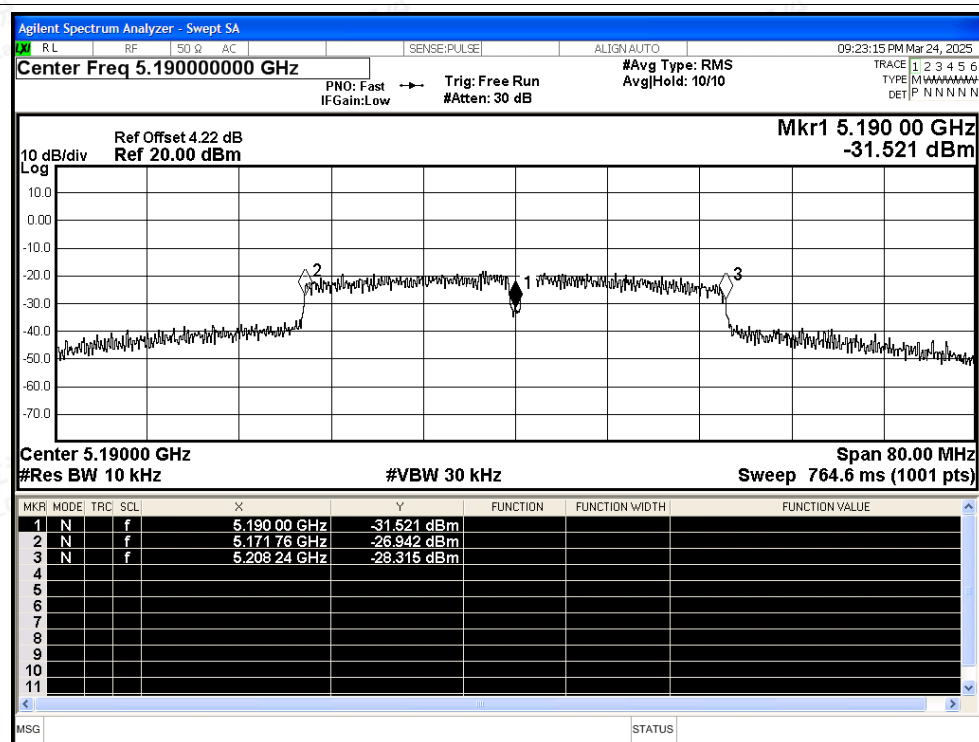
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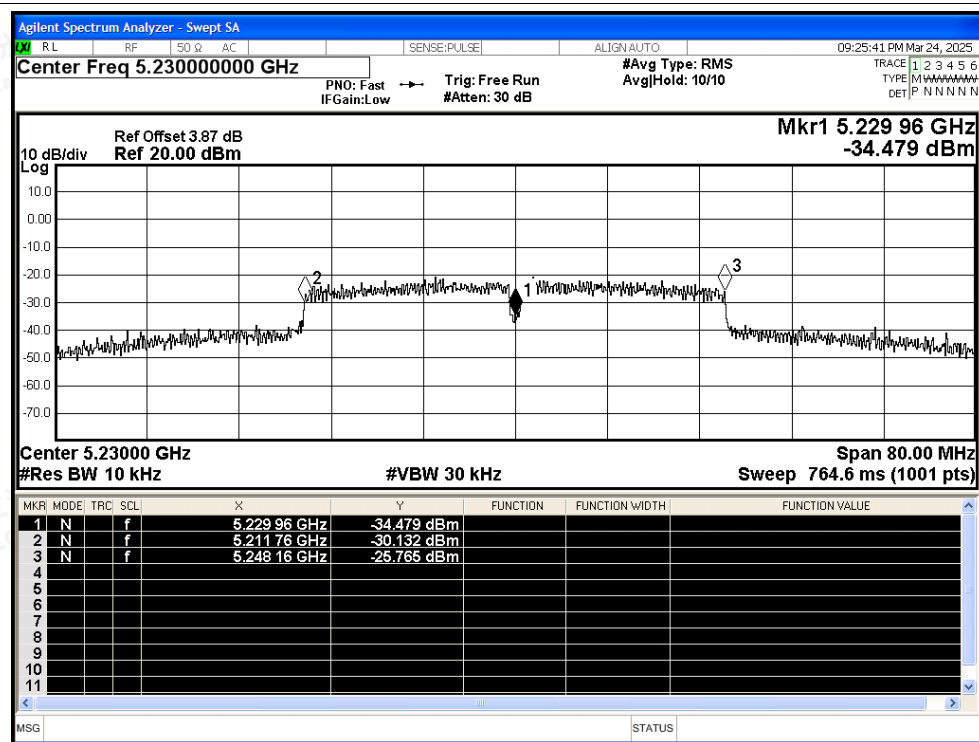
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Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



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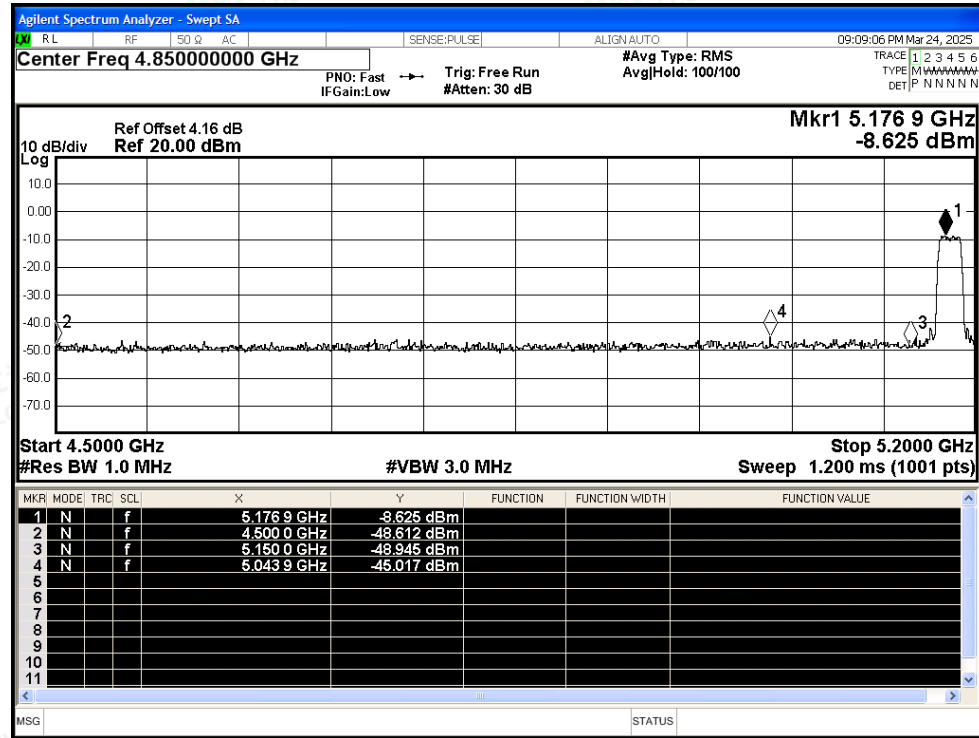
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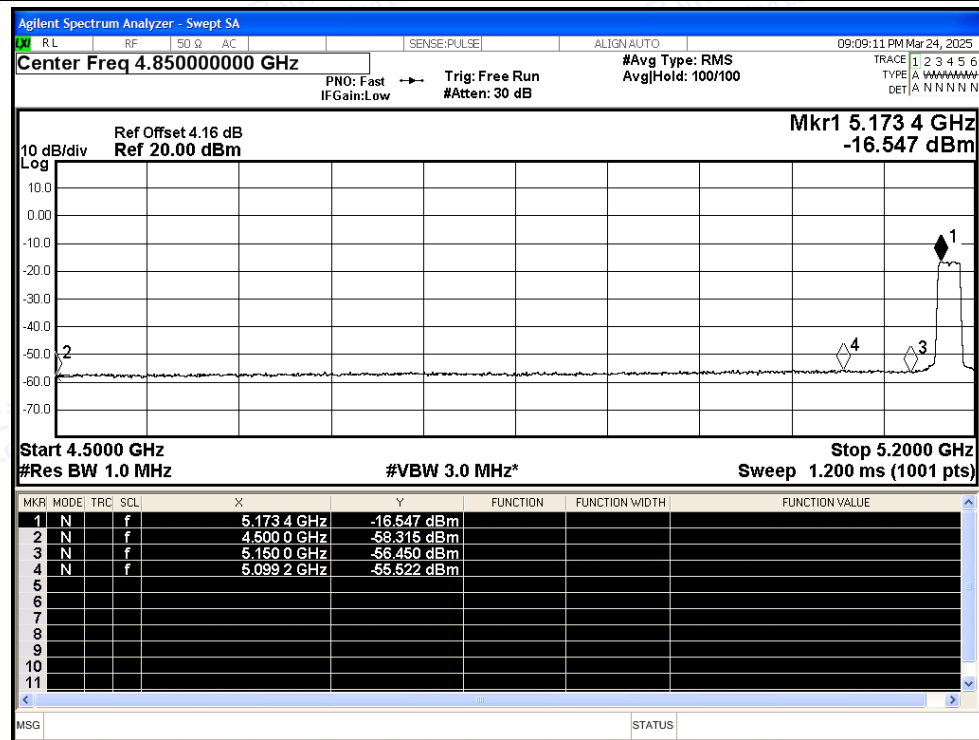


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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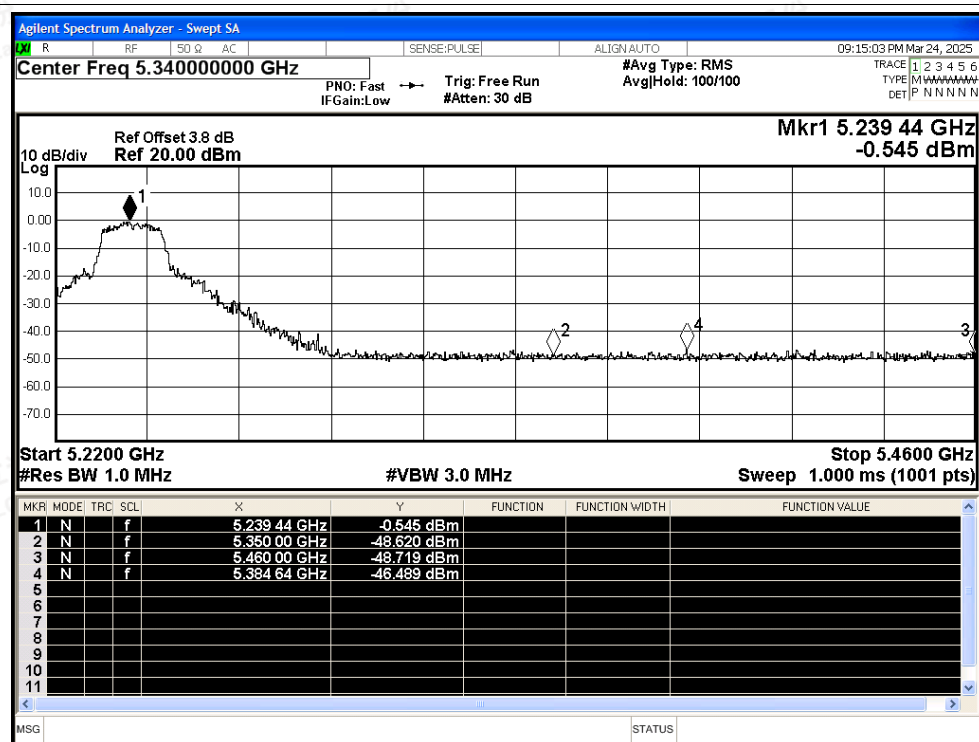
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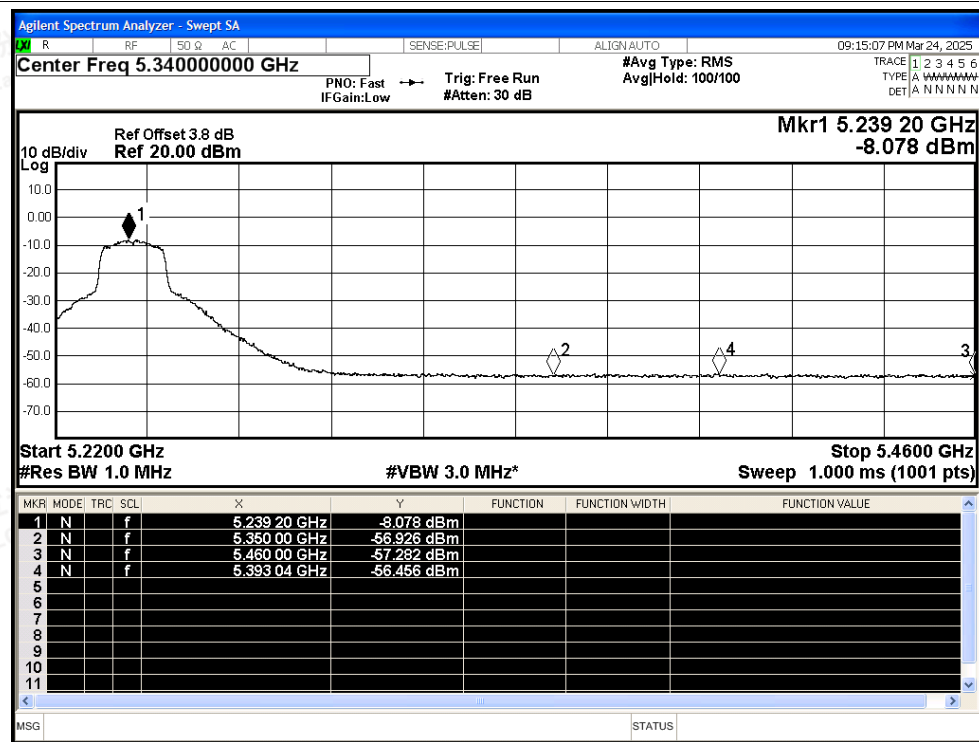
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



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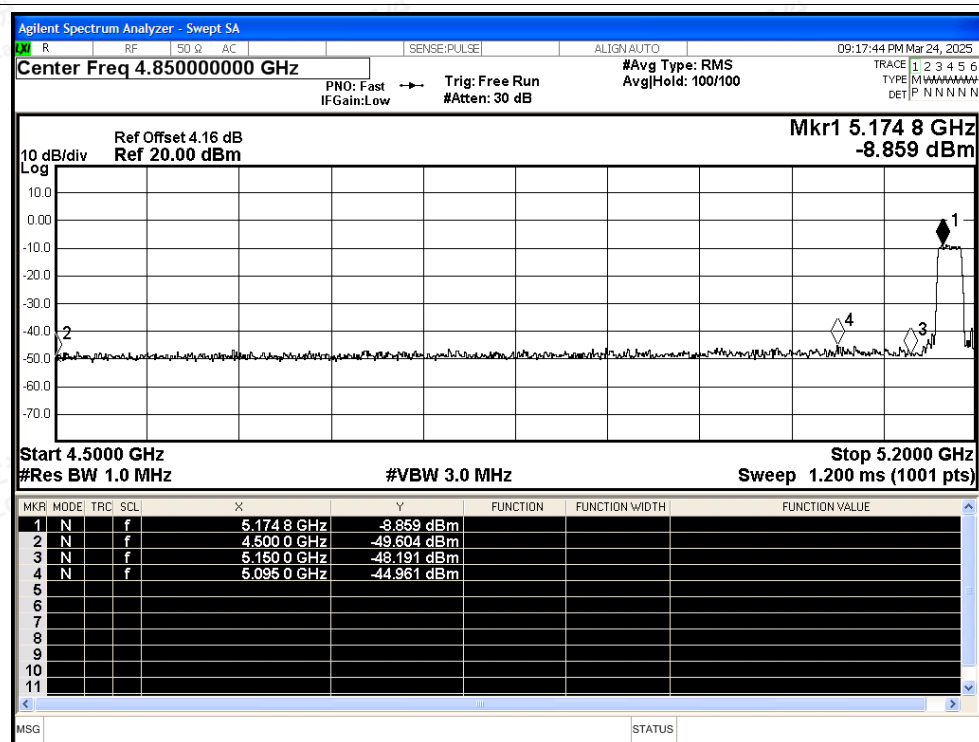
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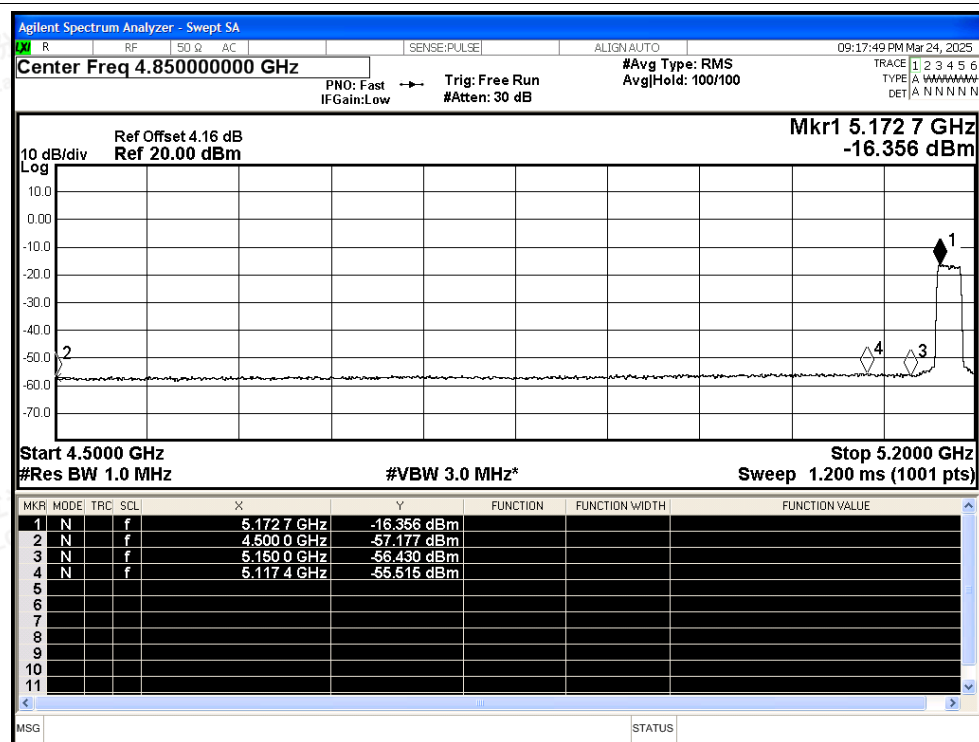
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Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



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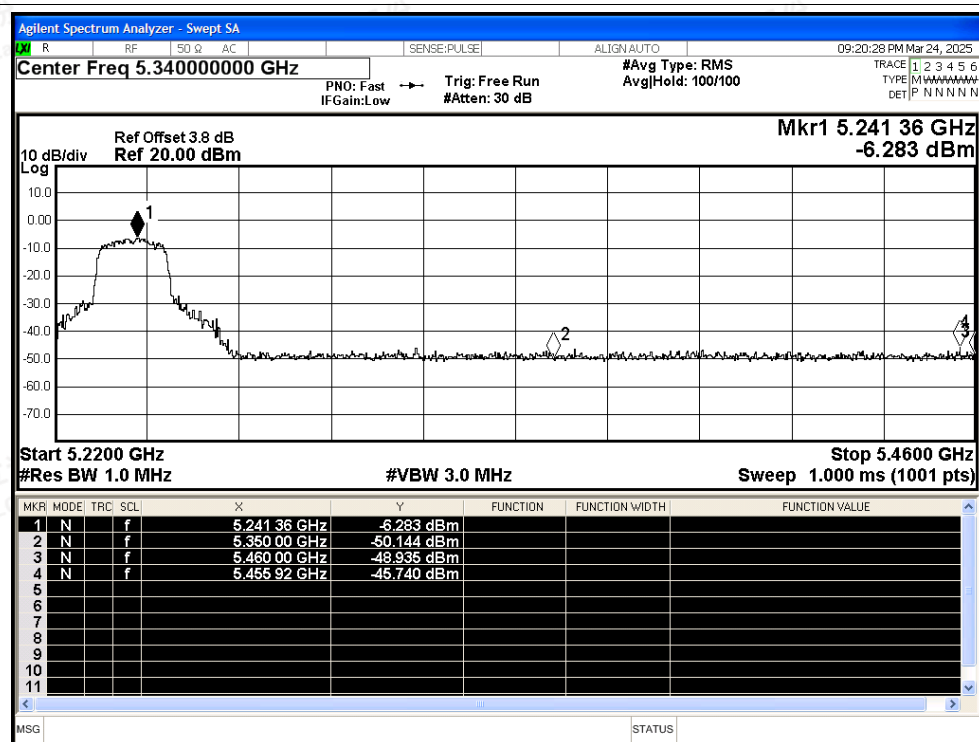
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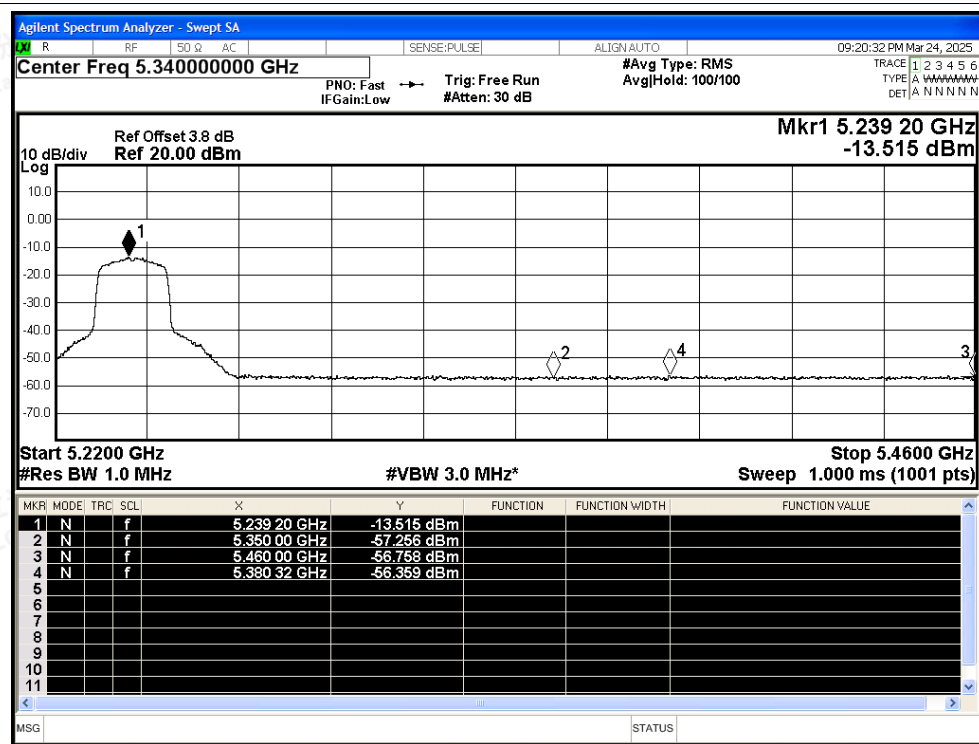
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Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



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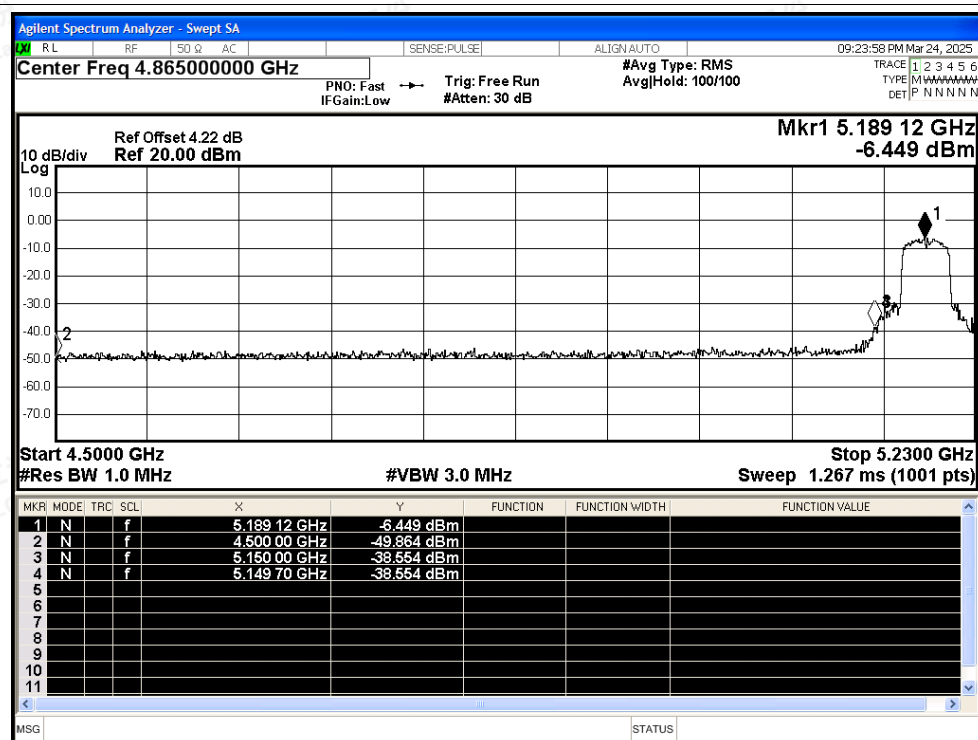
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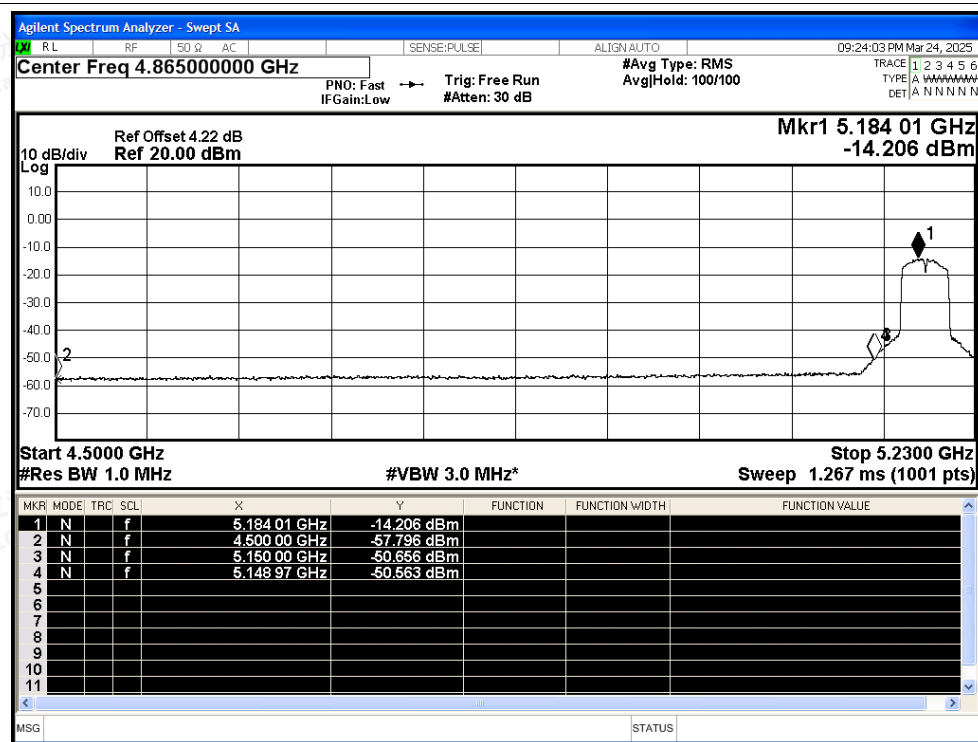
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Restrict Band NVNT n40 5190MHz Ant1 Peak

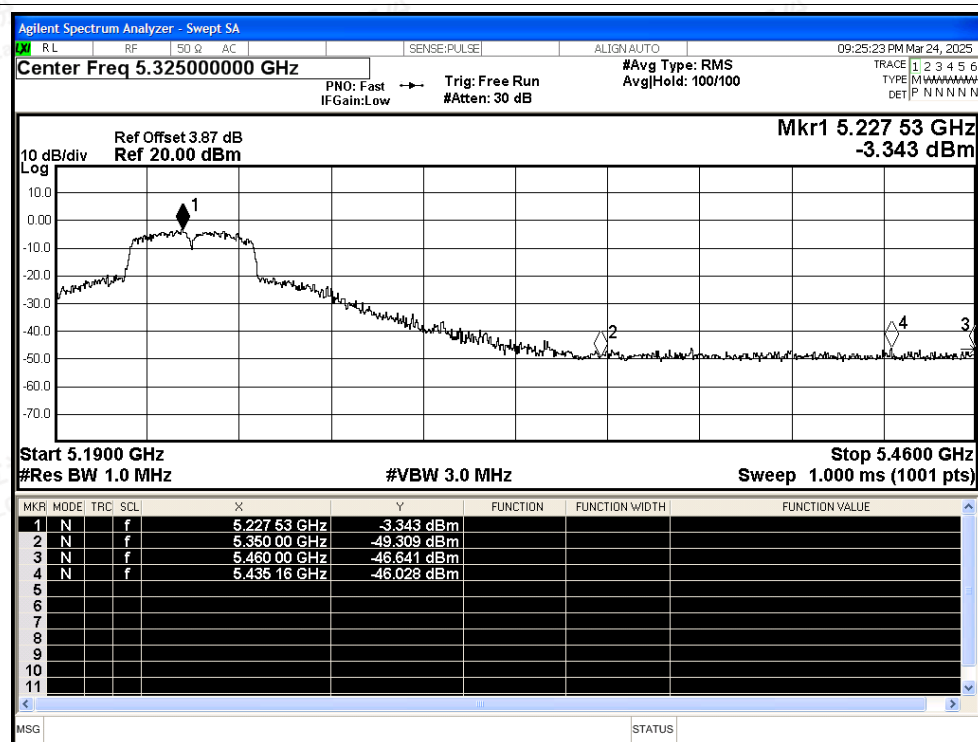


Restrict Band NVNT n40 5190MHz Ant1 Average

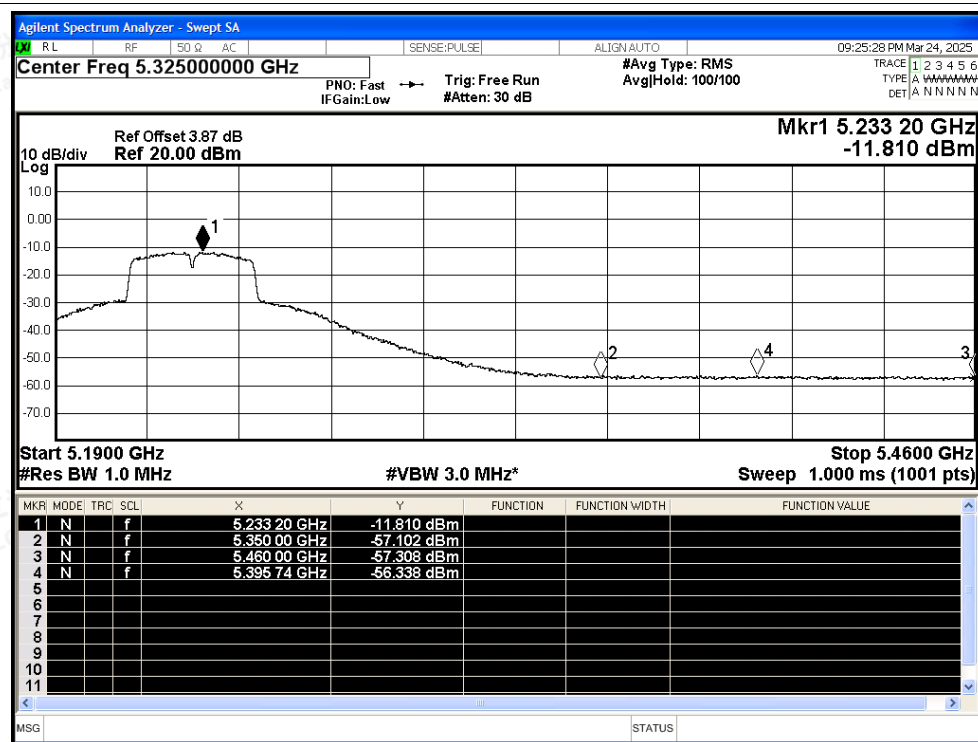




Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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C.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	97.55	0.11	0.72
NVNT	a	5200	Ant1	97.55	0.11	0.72
NVNT	a	5240	Ant1	97.48	0.11	0.72
NVNT	n20	5180	Ant1	97.31	0.12	0.77
NVNT	n20	5200	Ant1	97.31	0.12	0.77
NVNT	n20	5240	Ant1	97.38	0.12	0.77
NVNT	n40	5190	Ant1	94.88	0.23	1.54
NVNT	n40	5230	Ant1	94.88	0.23	1.54

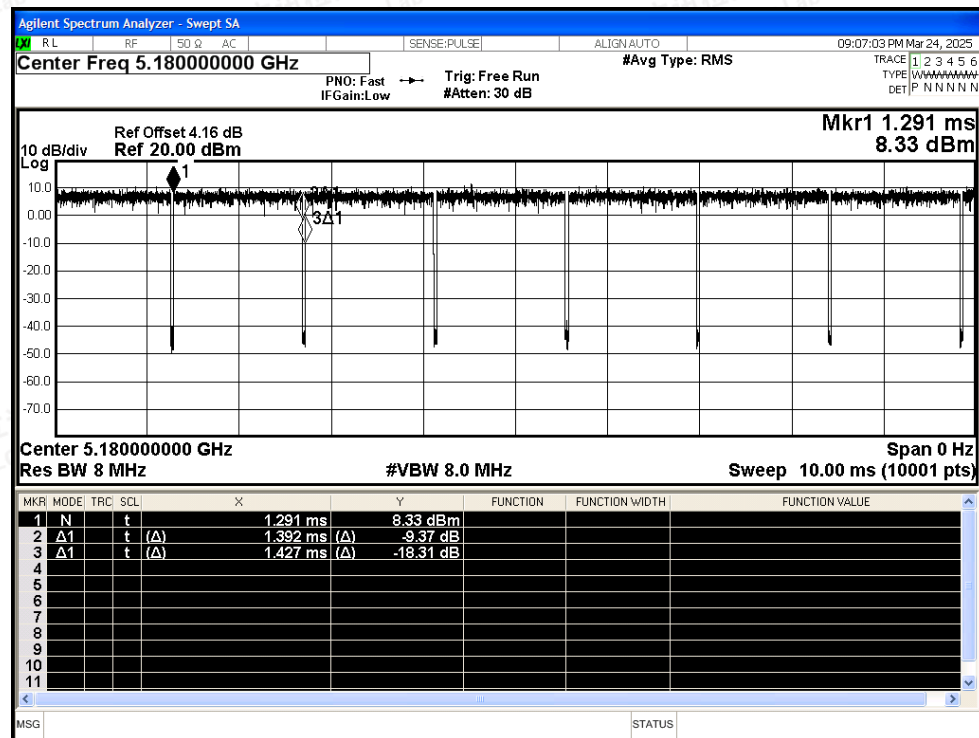


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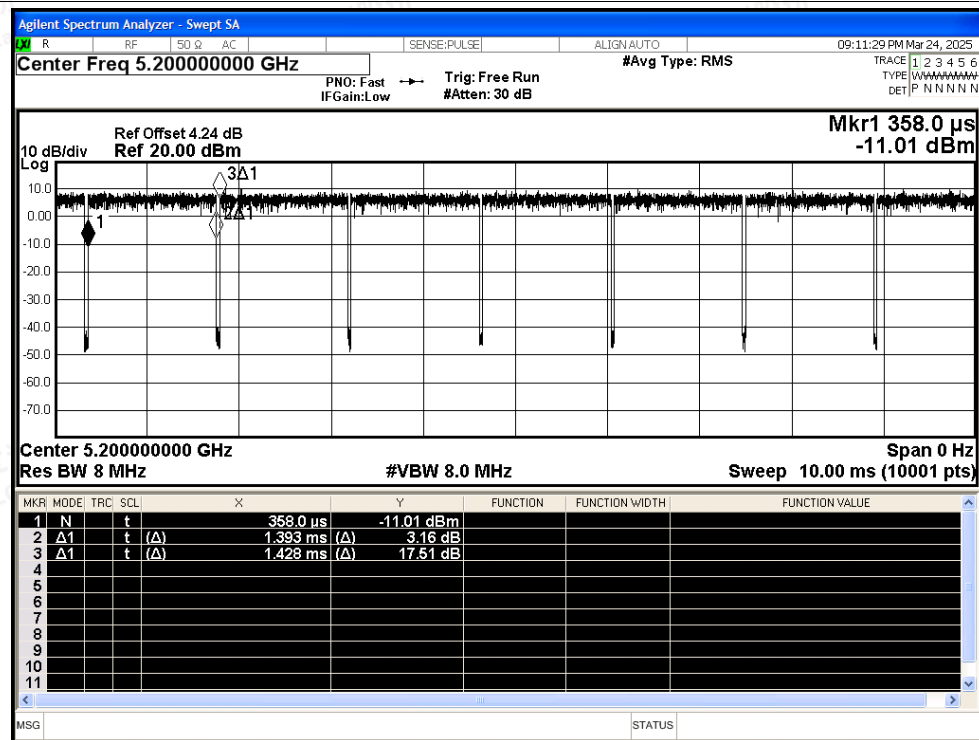


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

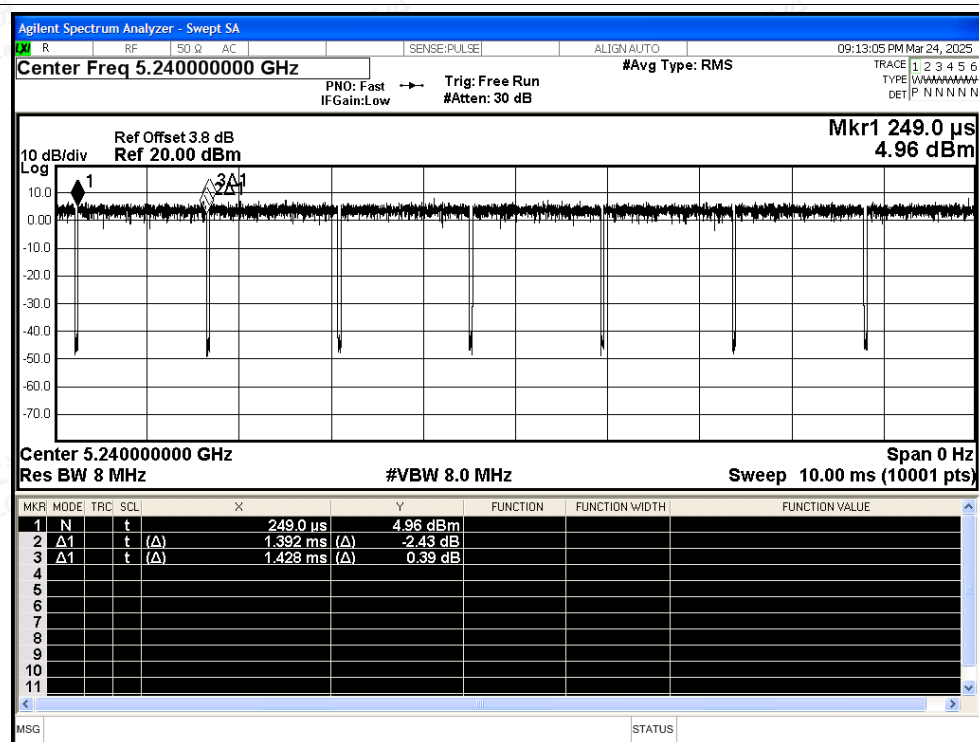
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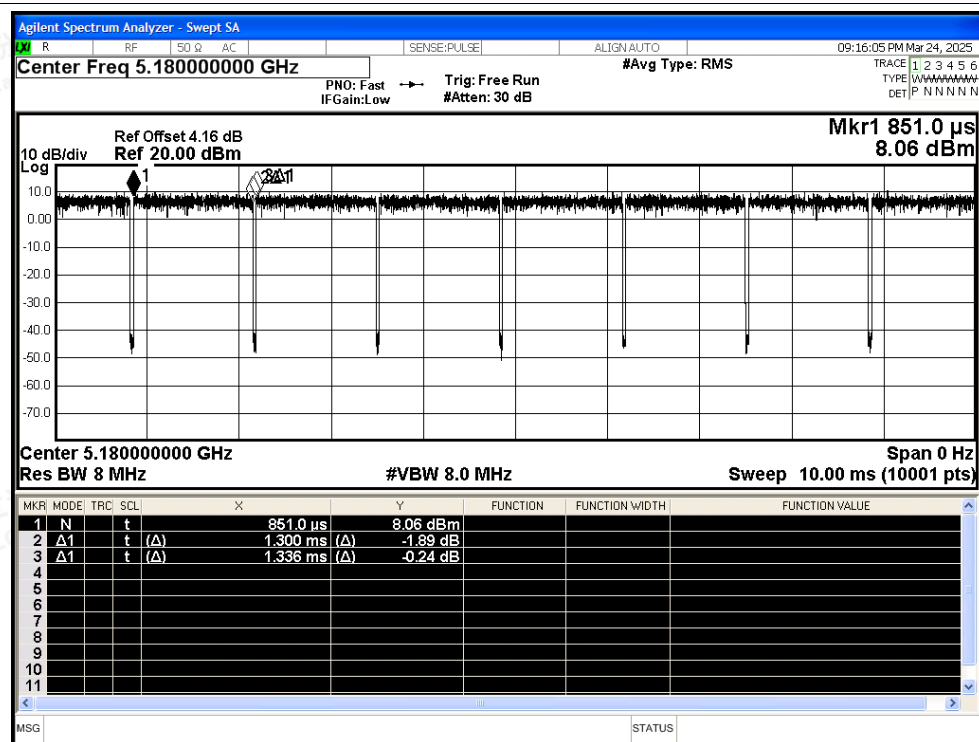
Scan code to check authenticity



Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



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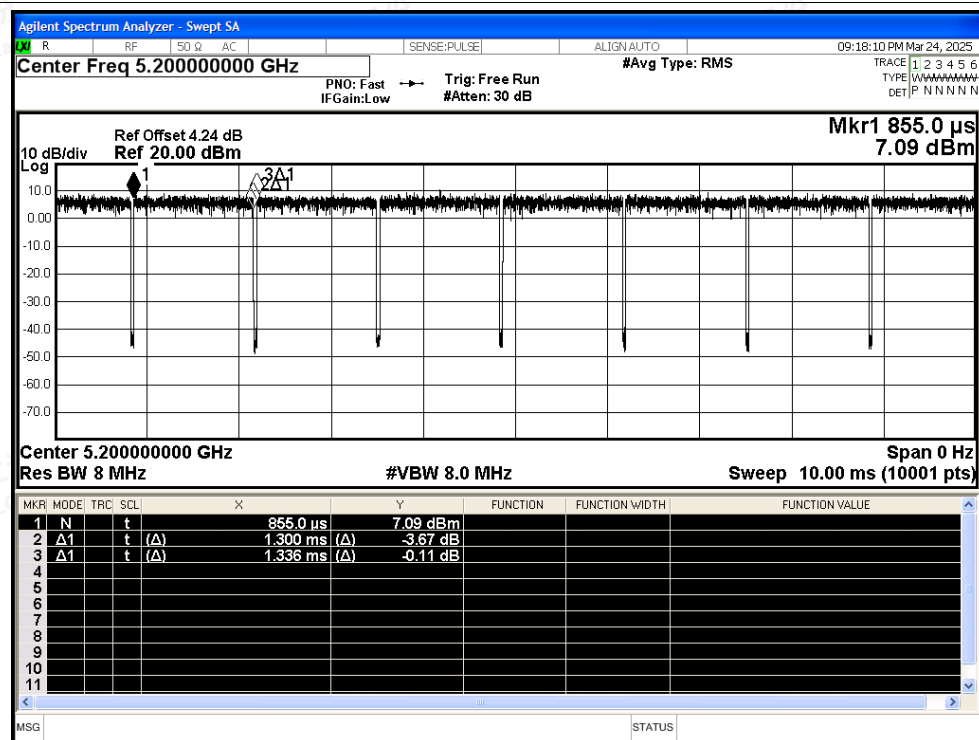
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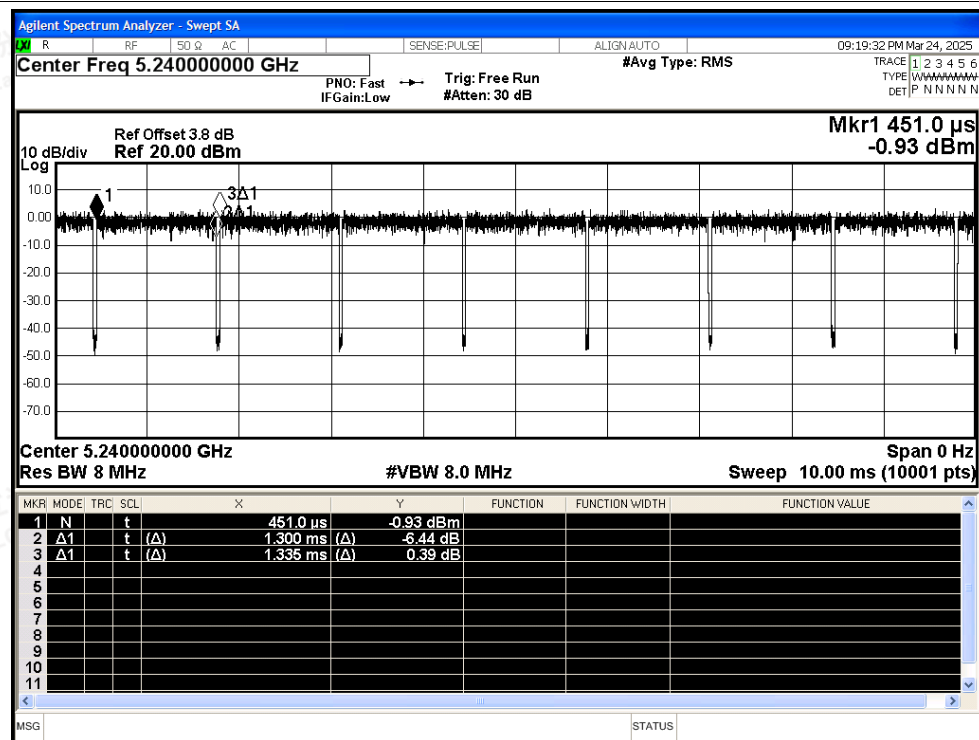
Scan code to check authenticity



Duty Cycle NVNT n20 5200MHz Ant1



Duty Cycle NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

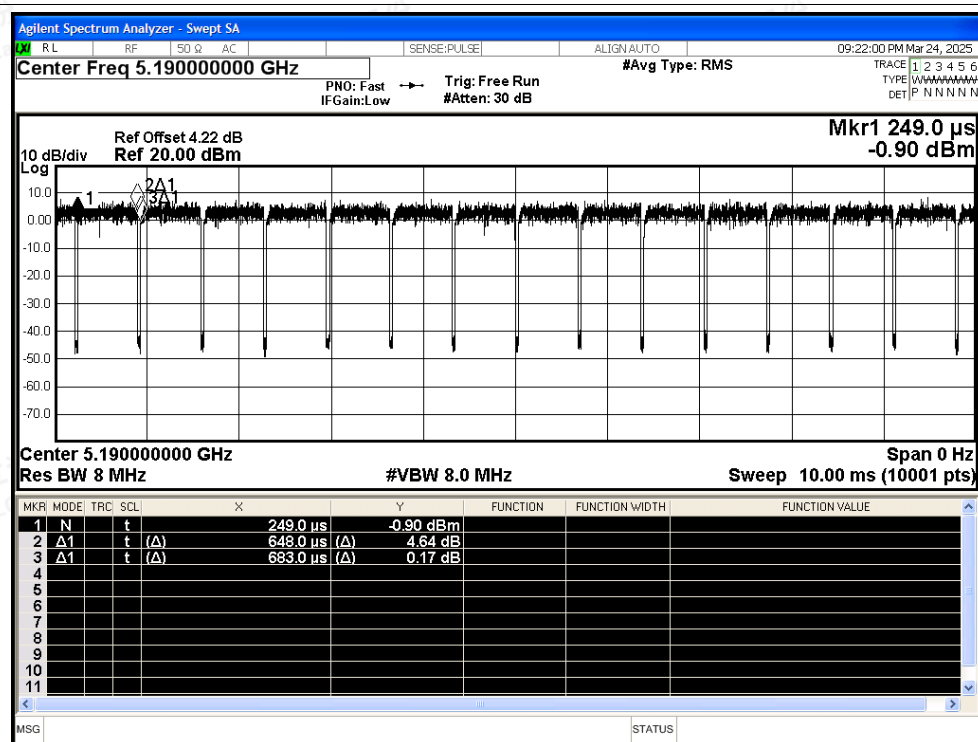
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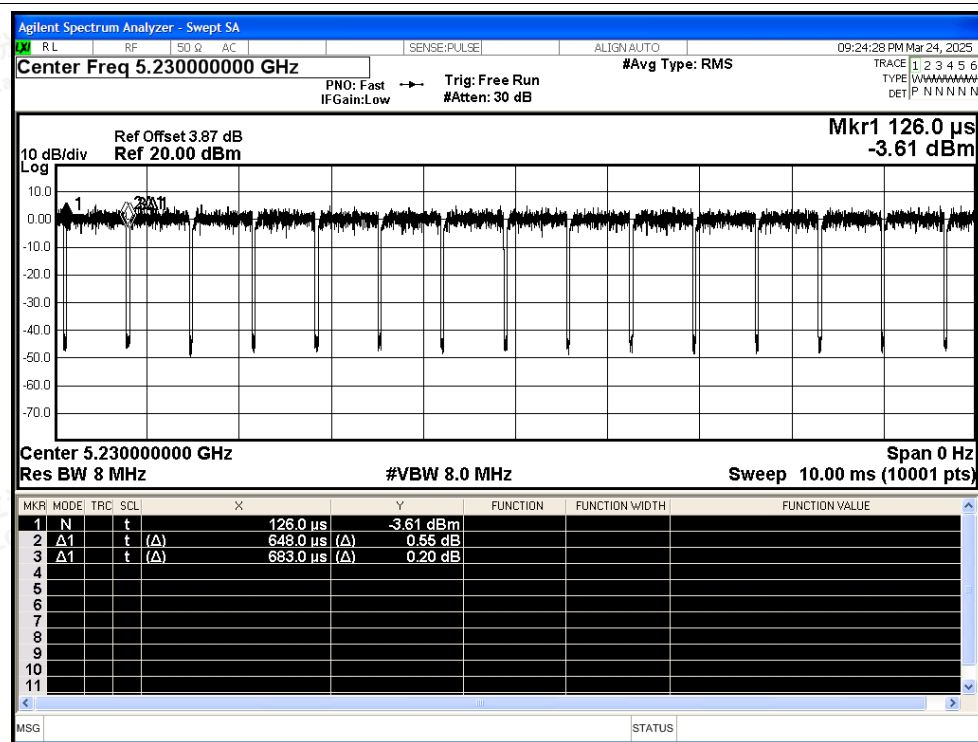
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Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



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