



Appendix A

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Long range Wireless HDMI extender

Test Model: ST121WHDLR Transmitter

Environmental Conditions

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



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A.1 -26dB Bandwidth

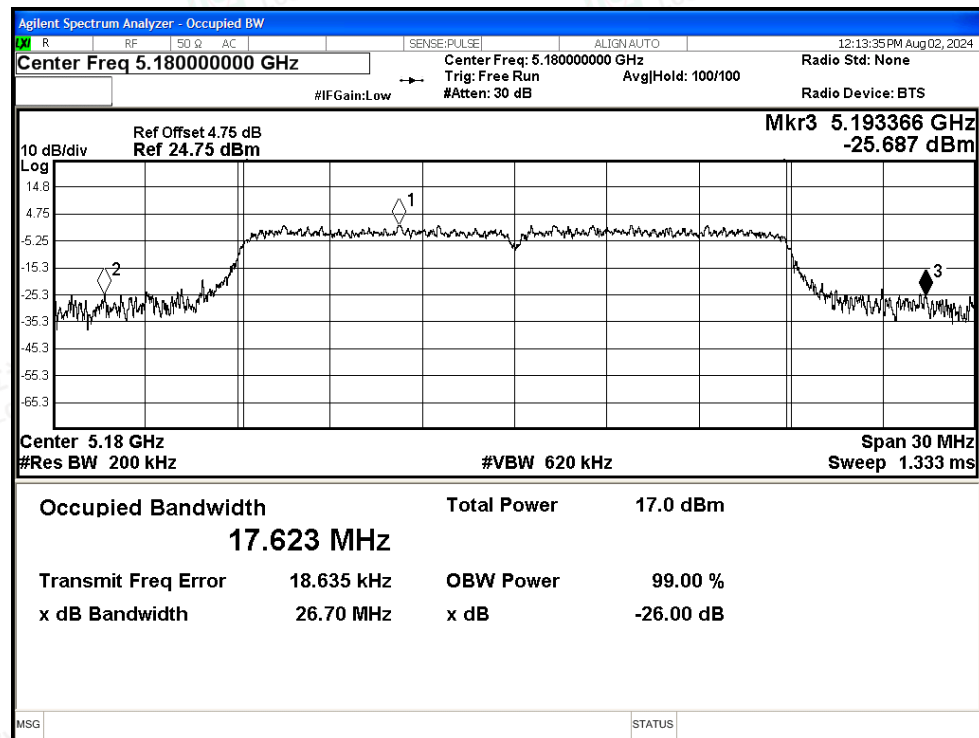
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	n20	5180	Ant0	26.695	≥ 0.5	Pass
NVNT	n20	5200	Ant0	28.707	≥ 0.5	Pass
NVNT	n20	5240	Ant0	26.195	≥ 0.5	Pass
NVNT	n40	5190	Ant0	41.663	≥ 0.5	Pass
NVNT	n40	5230	Ant0	44.016	≥ 0.5	Pass



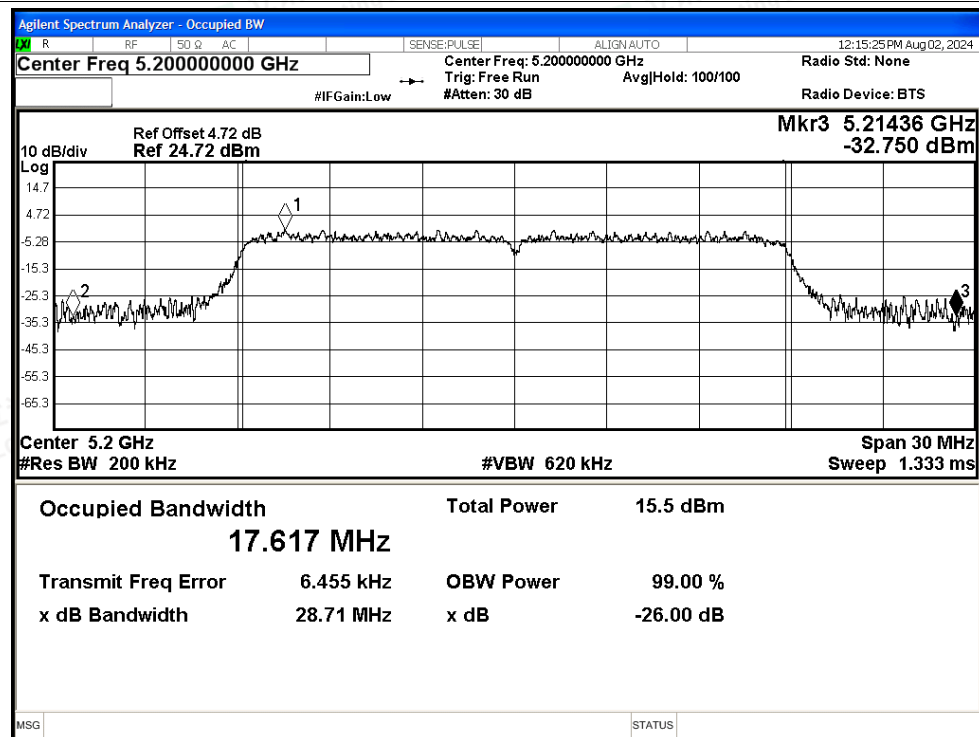


Test Graphs

-26dB Bandwidth NVNT n20 5180MHz Ant0



-26dB Bandwidth NVNT n20 5200MHz Ant0

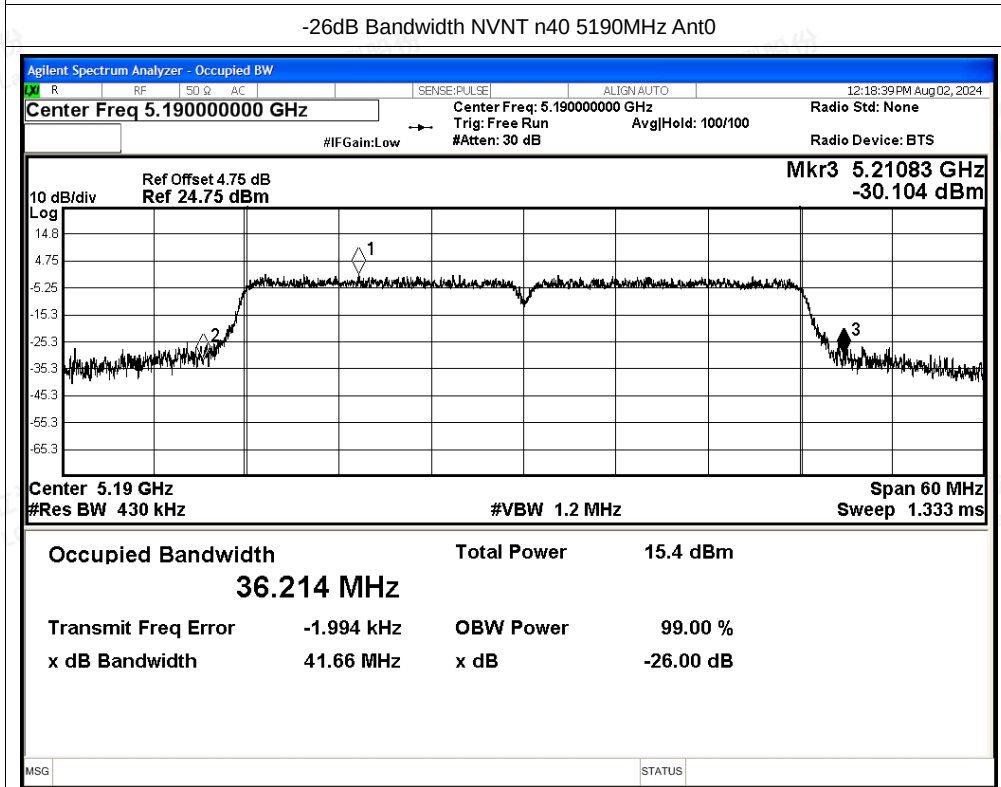
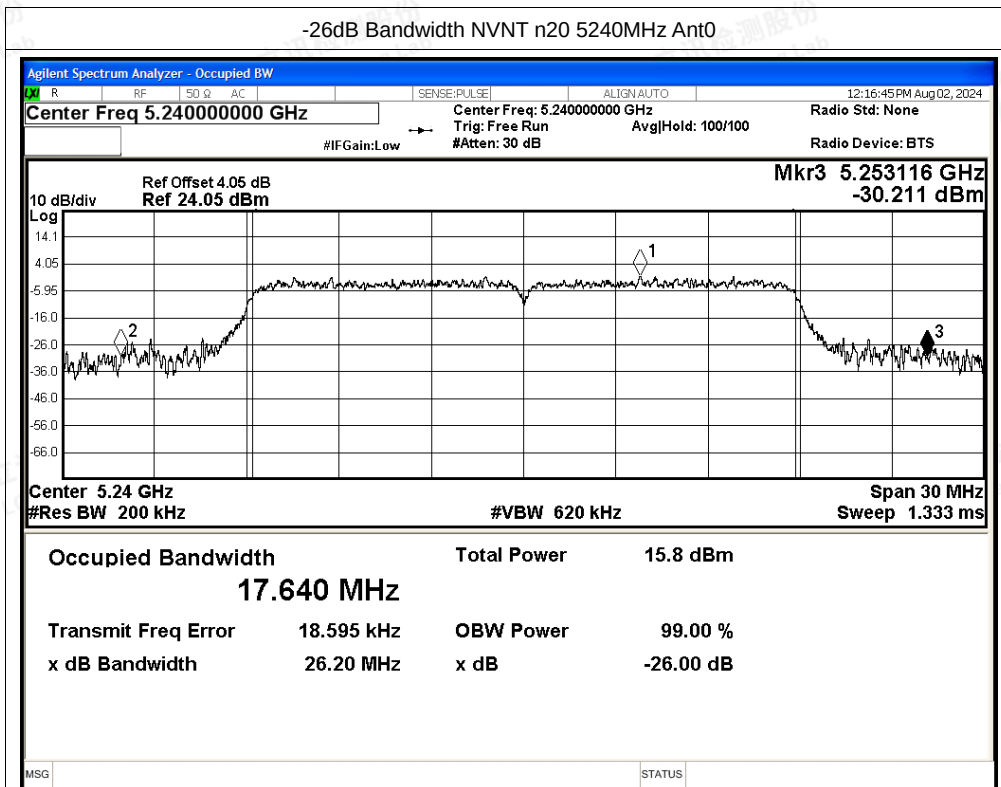


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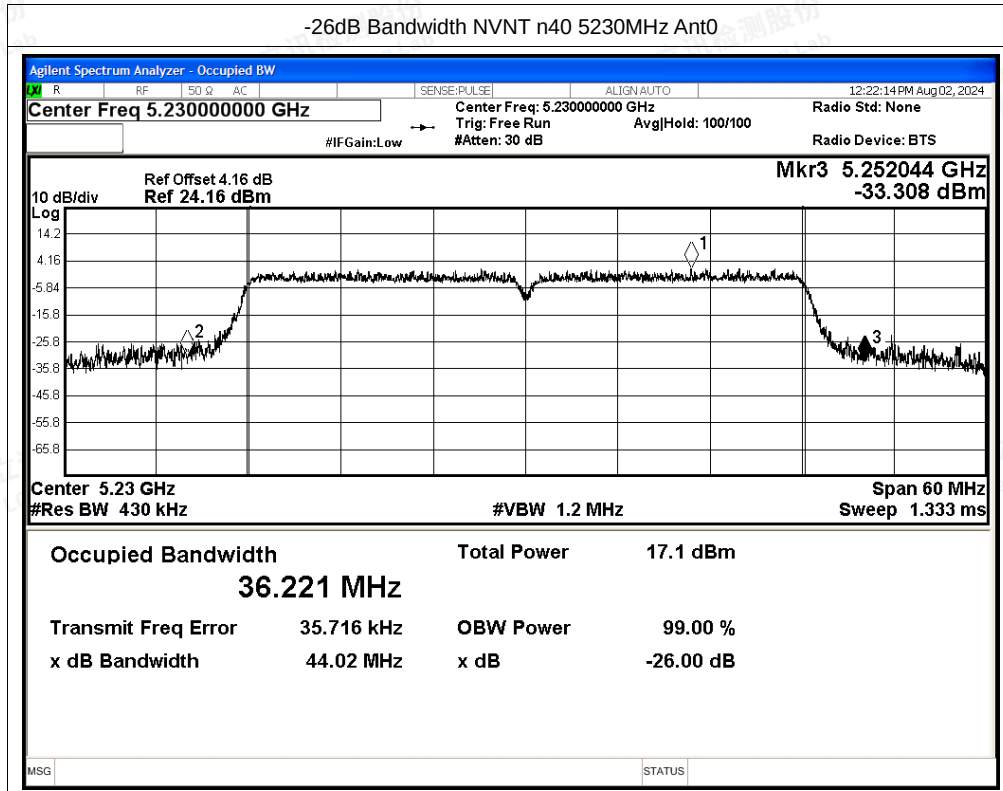


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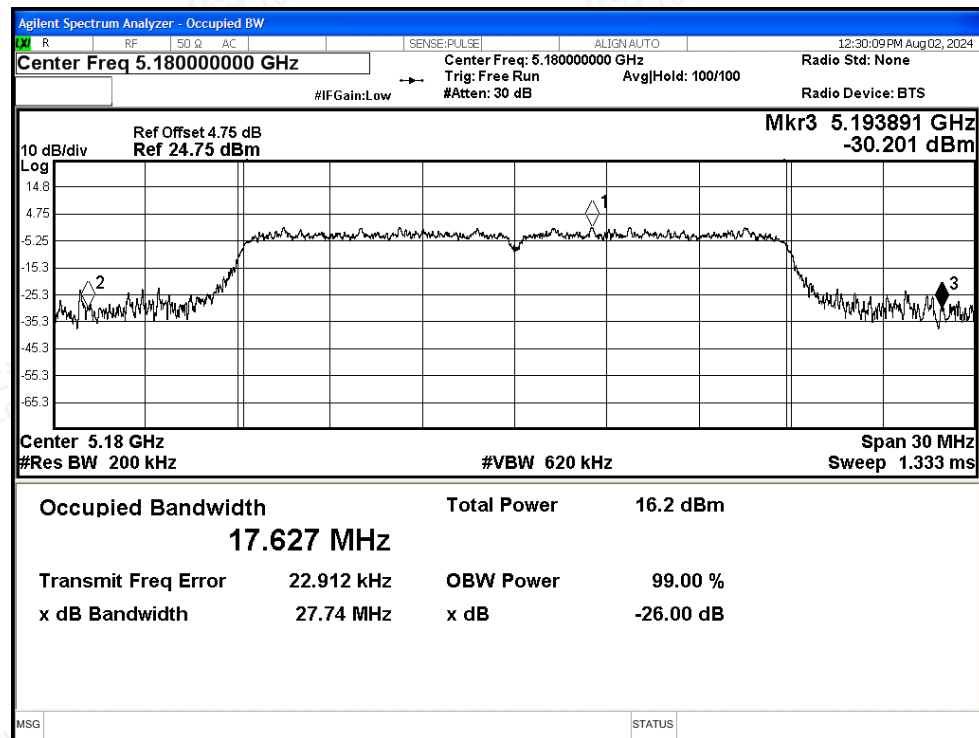
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	n20	5180	Ant1	27.736	≥ 0.5	Pass
NVNT	n20	5200	Ant1	23.65	≥ 0.5	Pass
NVNT	n20	5240	Ant1	28.07	≥ 0.5	Pass
NVNT	n40	5190	Ant1	48.751	≥ 0.5	Pass
NVNT	n40	5230	Ant1	50.308	≥ 0.5	Pass



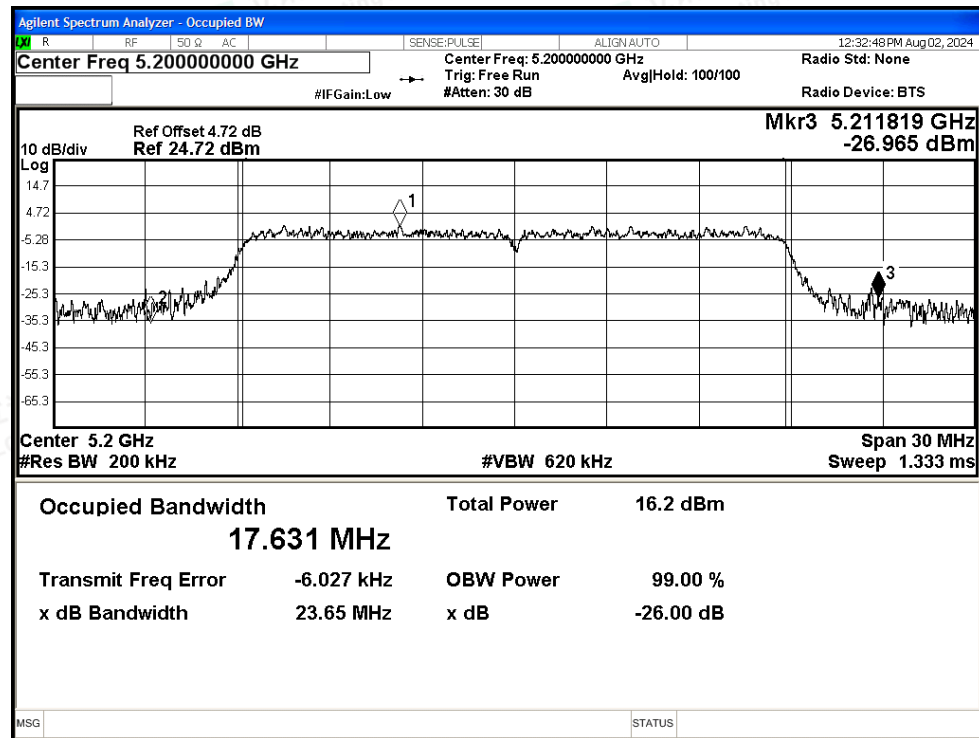


Test Graphs

-26dB Bandwidth NVNT n20 5180MHz Ant1



-26dB Bandwidth NVNT n20 5200MHz Ant1

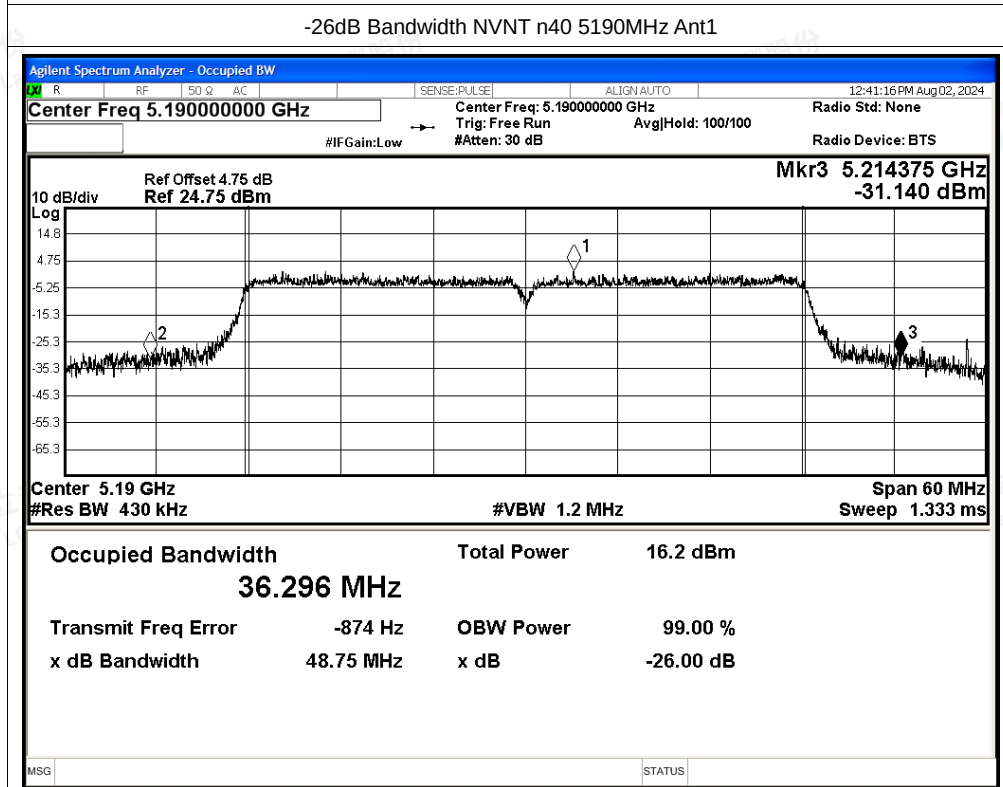
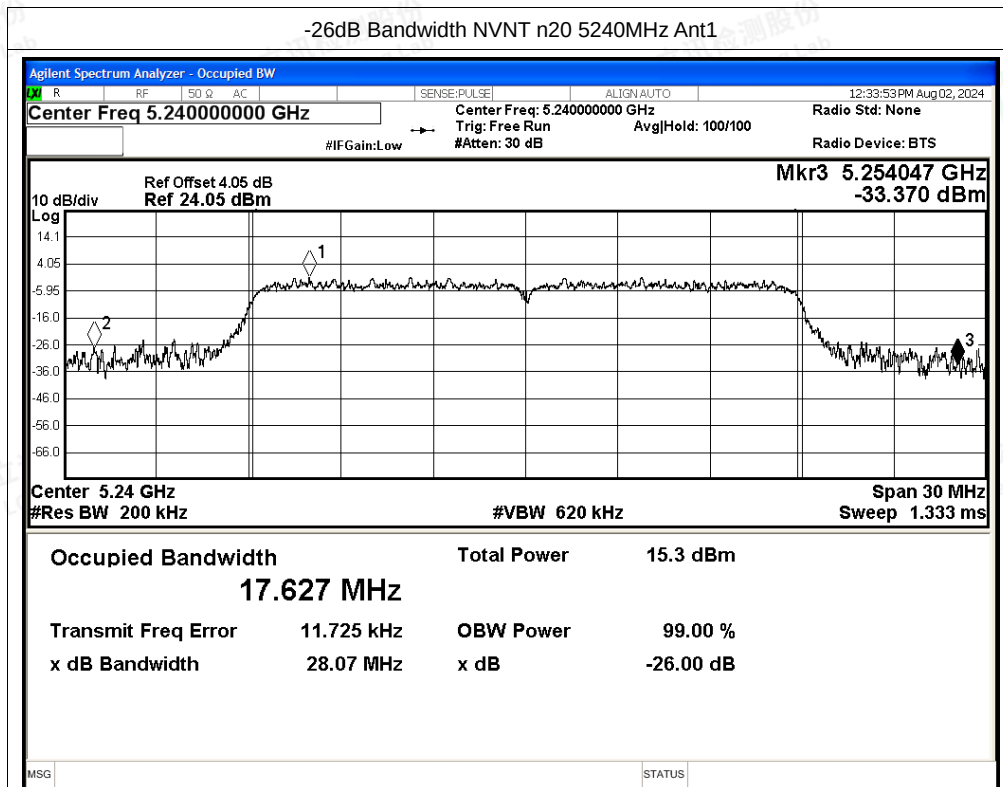


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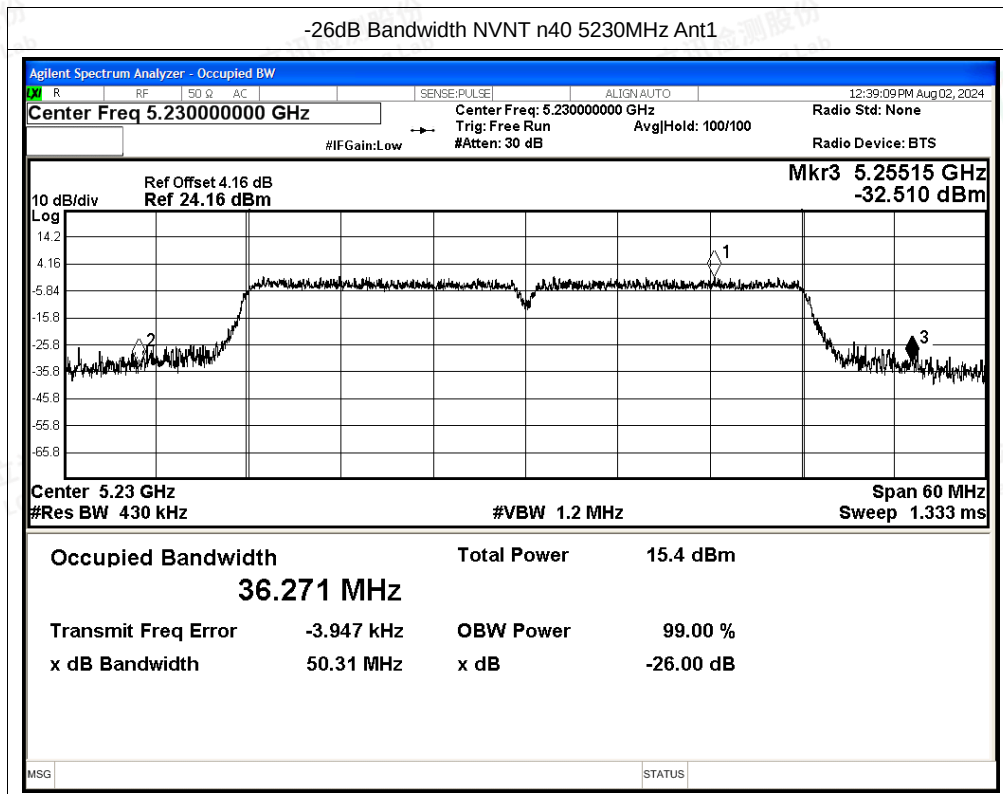


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A.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant0	11.2	0.28	11.48	30.00	Pass
NVNT	n20	5200	Ant0	11.83	0.28	12.11	30.00	Pass
NVNT	n20	5240	Ant0	11.1	0.28	11.38	30.00	Pass
NVNT	n40	5190	Ant0	10.35	0.45	10.8	30.00	Pass
NVNT	n40	5230	Ant0	10.82	0.45	11.27	30.00	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant1	10.34	0.28	10.62	30.00	Pass
NVNT	n20	5200	Ant1	10.4	0.28	10.68	30.00	Pass
NVNT	n20	5240	Ant1	10.39	0.28	10.67	30.00	Pass
NVNT	n40	5190	Ant1	9.67	0.45	10.12	30.00	Pass
NVNT	n40	5230	Ant1	9.17	0.45	9.62	30.00	Pass

MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	11.48	10.62	14.08	30.00	Pass
NVNT	n20	5200	12.11	10.68	14.46	30.00	Pass
NVNT	n20	5240	11.38	10.67	14.05	30.00	Pass
NVNT	n40	5190	10.8	10.12	13.48	30.00	Pass
NVNT	n40	5230	11.27	9.62	13.53	30.00	Pass





A.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant0	0.38	0.28	0.66	17.00	Pass
NVNT	n20	5200	Ant0	-1.03	0.28	-0.75	17.00	Pass
NVNT	n20	5240	Ant0	-0.84	0.28	-0.56	17.00	Pass
NVNT	n40	5190	Ant0	-4.26	0.45	-3.81	17.00	Pass
NVNT	n40	5230	Ant0	-2.57	0.45	-2.12	17.00	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	5180	Ant1	-0.06	0.28	0.22	17.00	Pass
NVNT	n20	5200	Ant1	-0.45	0.28	-0.17	17.00	Pass
NVNT	n20	5240	Ant1	-1.31	0.28	-1.03	17.00	Pass
NVNT	n40	5190	Ant1	-3.73	0.45	-3.28	17.00	Pass
NVNT	n40	5230	Ant1	-4.4	0.45	-3.95	17.00	Pass

MIMO

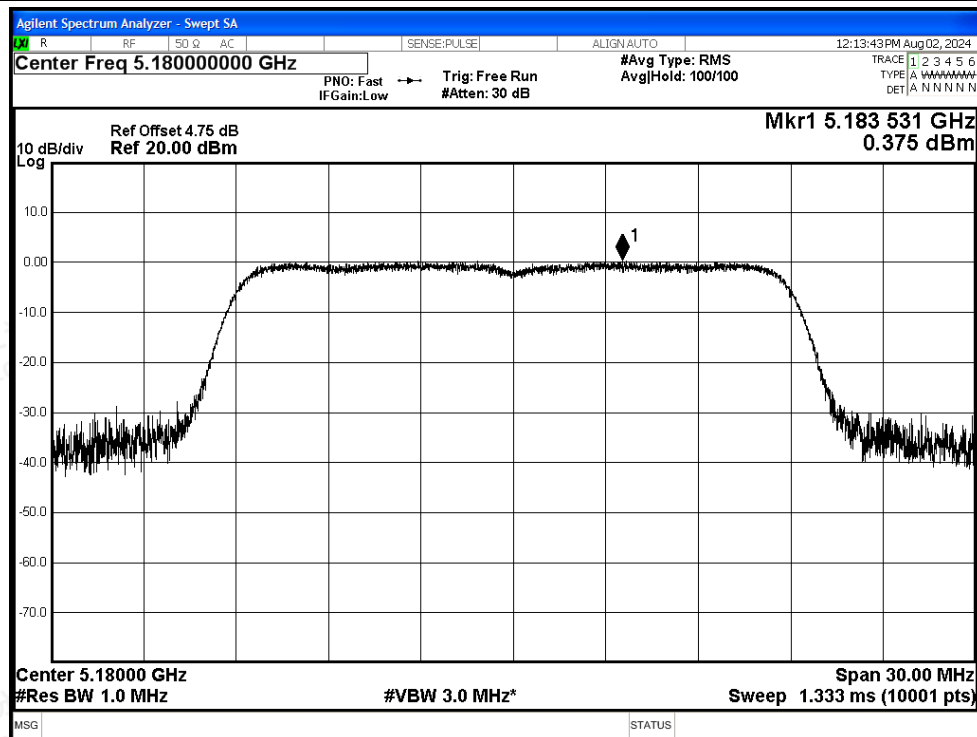
Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5180	0.66	0.22	3.46	15.49	Pass
NVNT	n20	5200	-0.75	-0.17	2.56	15.49	Pass
NVNT	n20	5240	-0.56	-1.03	2.22	15.49	Pass
NVNT	n40	5190	-3.81	-3.28	-0.53	15.49	Pass
NVNT	n40	5230	-2.12	-3.95	0.07	15.49	Pass



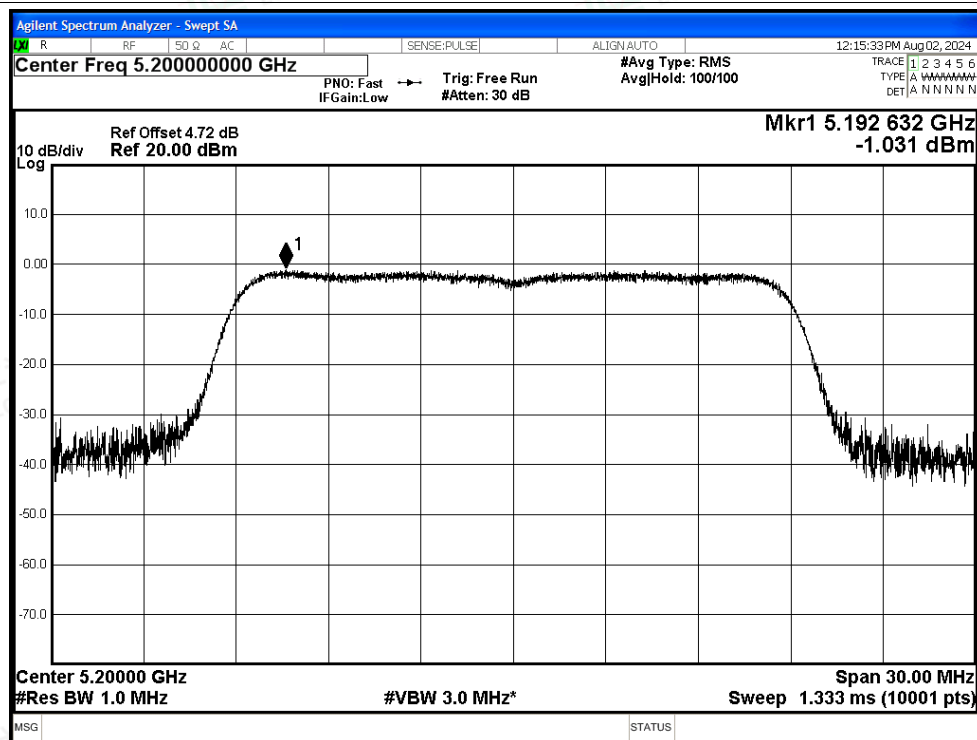


Test Graphs

PSD NVNT n20 5180MHz Ant0



PSD NVNT n20 5200MHz Ant0

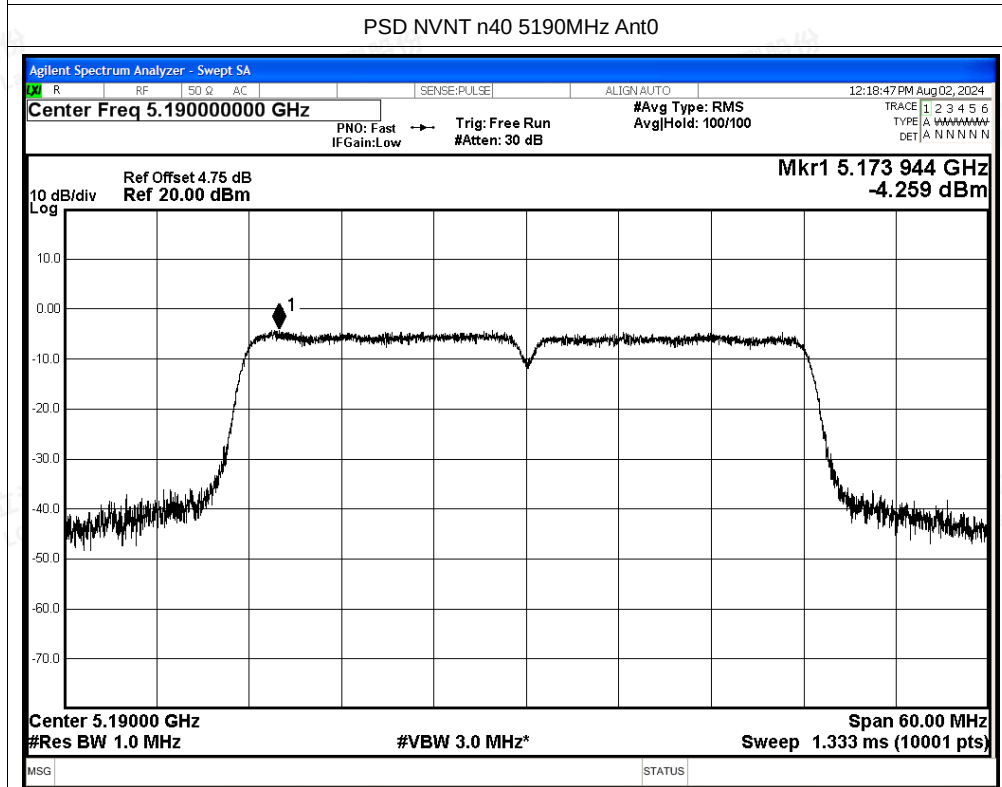
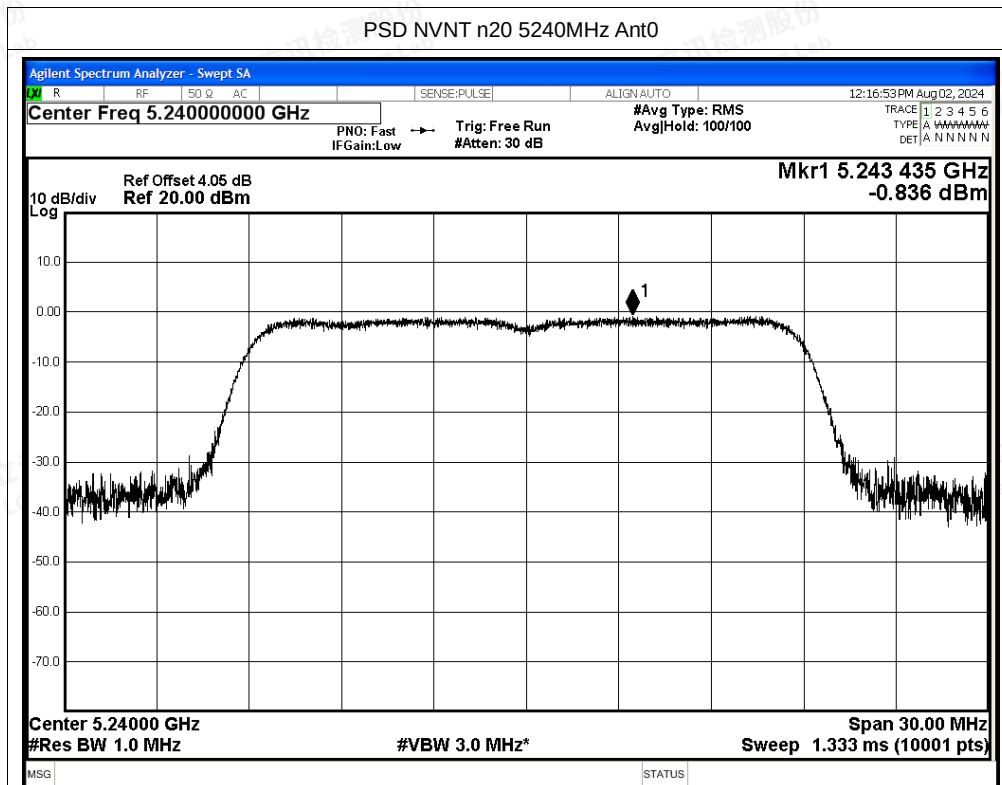


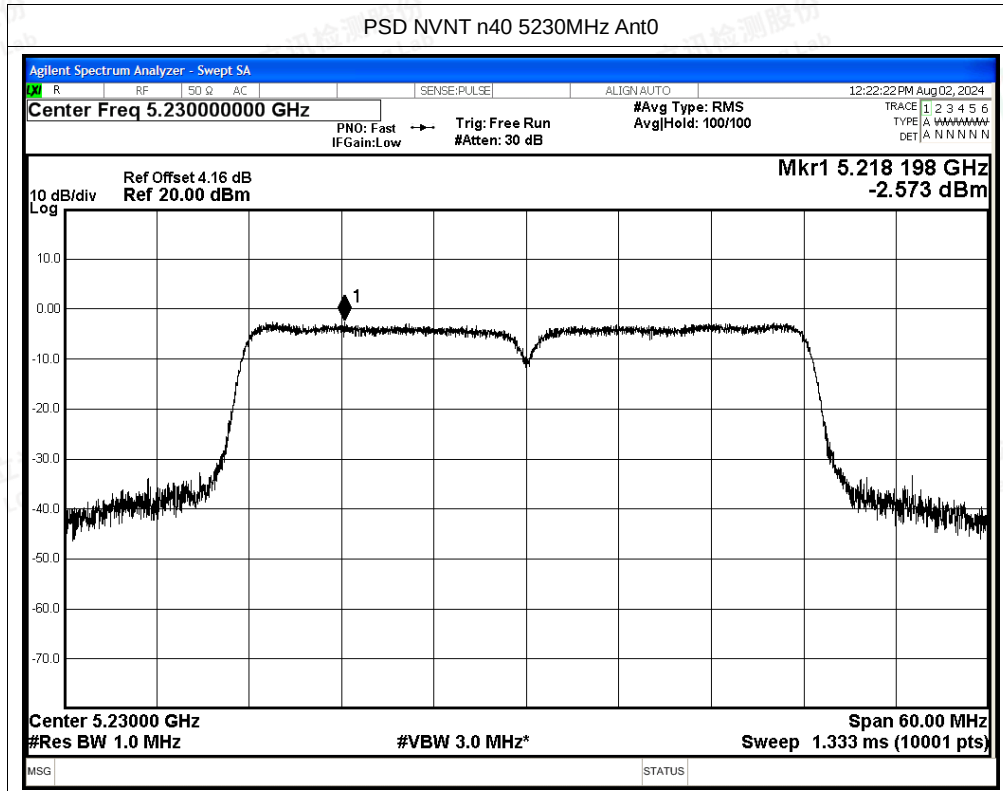
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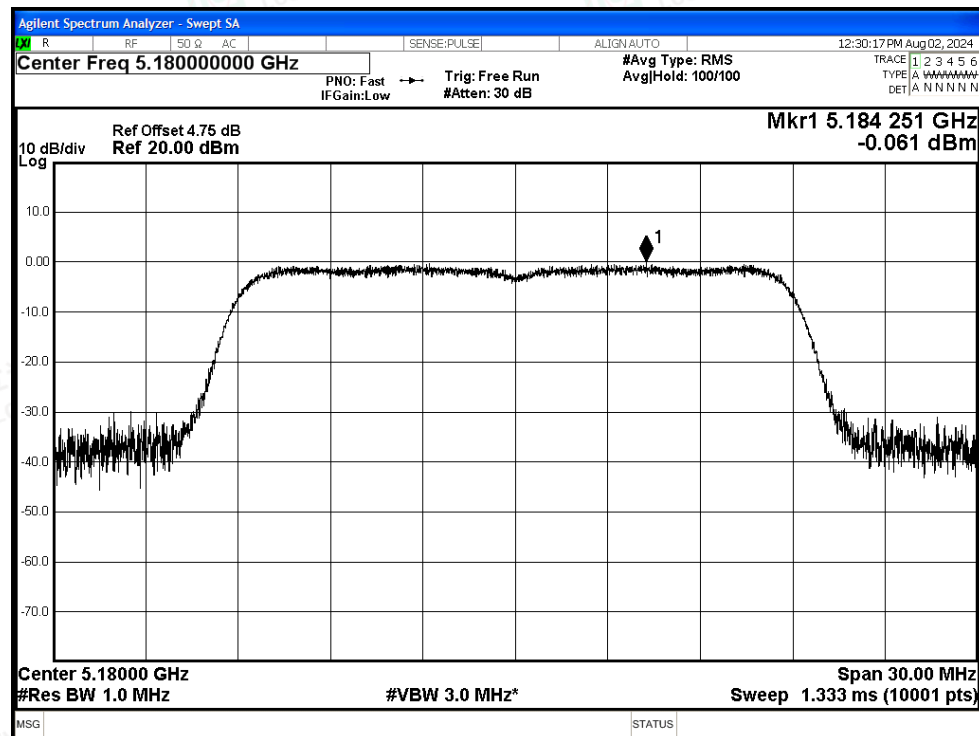
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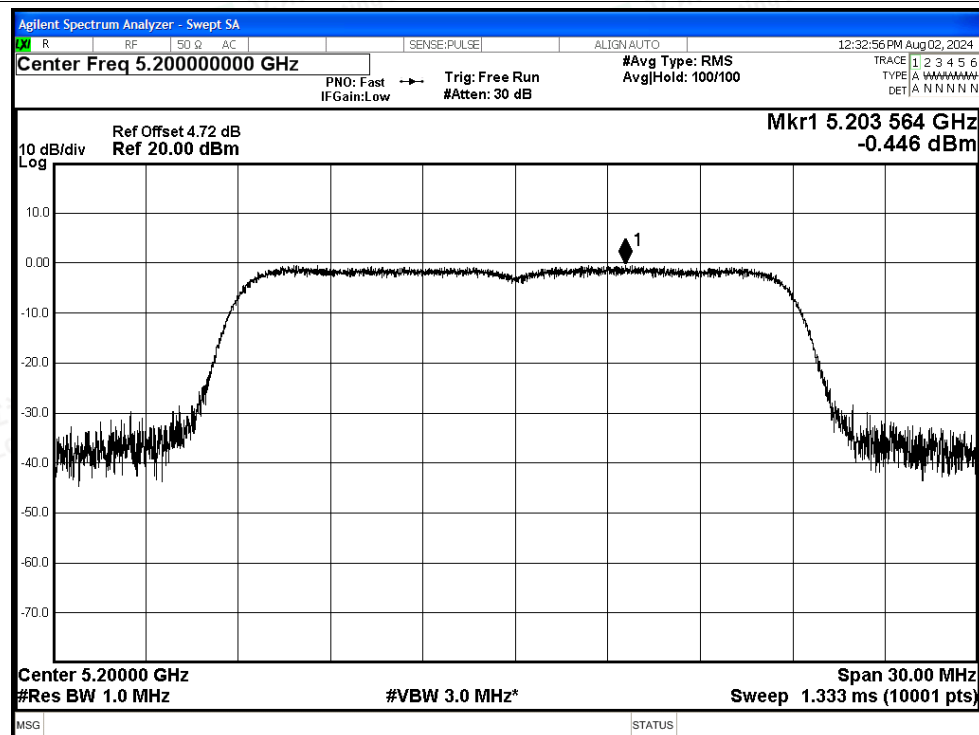


Test Graphs

PSD NVNT n20 5180MHz Ant1



PSD NVNT n20 5200MHz Ant1

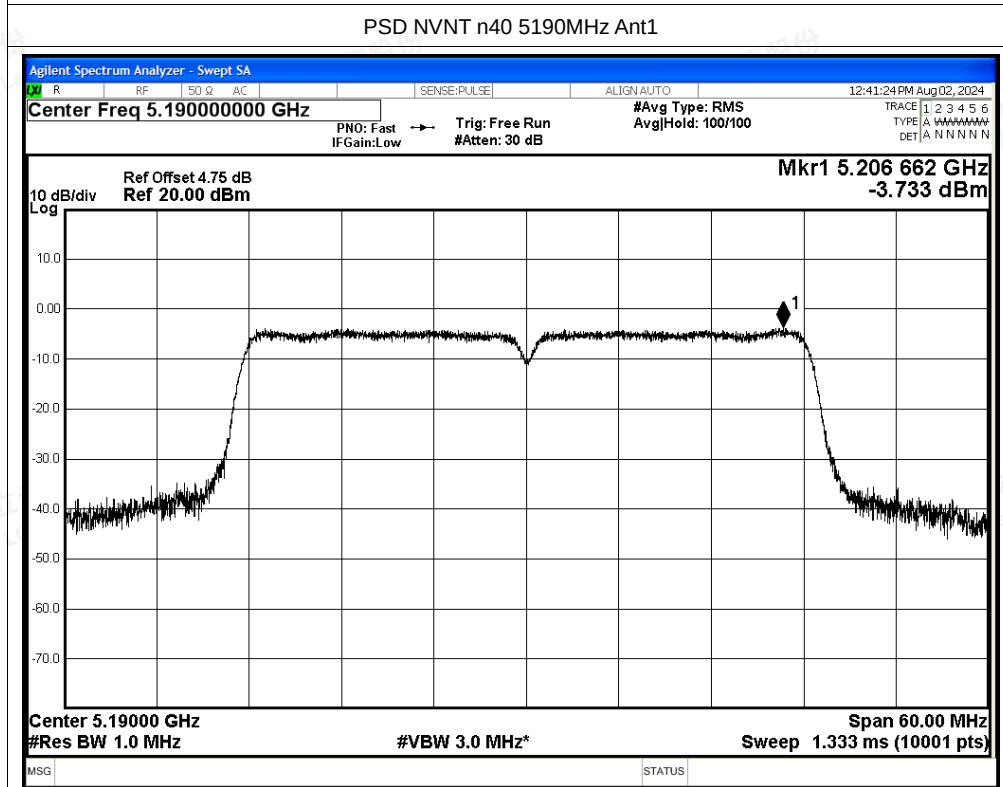
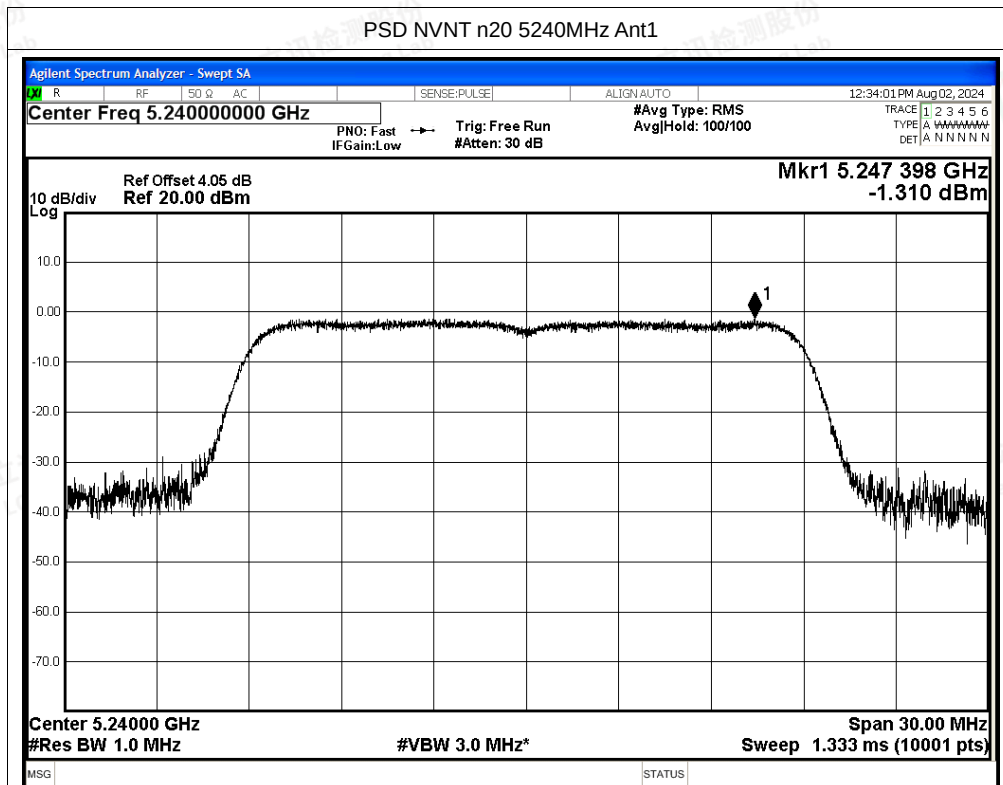


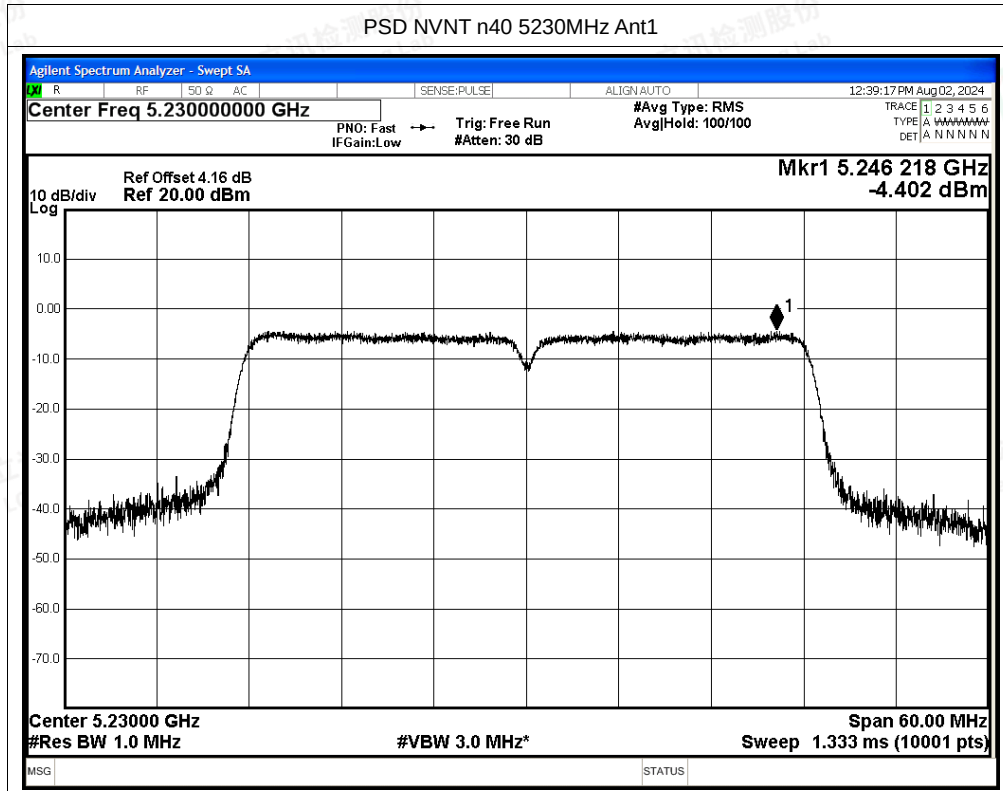
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A.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5180	Ant0	4500	-46.51	4.50	-	53.22	Peak	68.2	Pass
NVNT	n20	5180	Ant0	4500	-57.44	4.50	0.28	42.57	Average	54	Pass
NVNT	n20	5180	Ant0	5148.9	-39.84	4.50	-	59.89	Peak	68.2	Pass
NVNT	n20	5180	Ant0	5148.9	-51.76	4.50	0.28	48.25	Average	54	Pass
NVNT	n20	5180	Ant0	5150	-40.72	4.50	-	59.01	Peak	68.2	Pass
NVNT	n20	5180	Ant0	5150	-51.22	4.50	0.28	48.79	Average	54	Pass
NVNT	n20	5240	Ant0	5350	-48.75	4.50	-	50.98	Peak	68.2	Pass
NVNT	n20	5240	Ant0	5350	-56.43	4.50	0.28	43.58	Average	54	Pass
NVNT	n20	5240	Ant0	5428.08	-46.03	4.50	-	53.7	Peak	68.2	Pass
NVNT	n20	5240	Ant0	5351.52	-56	4.50	0.28	44.01	Average	54	Pass
NVNT	n20	5240	Ant0	5460	-47.08	4.50	-	52.65	Peak	68.2	Pass
NVNT	n20	5240	Ant0	5460	-56.8	4.50	0.28	43.21	Average	54	Pass
NVNT	n40	5190	Ant0	4500	-48.43	4.50	-	51.3	Peak	68.2	Pass
NVNT	n40	5190	Ant0	4500	-56.95	4.50	0.45	43.23	Average	54	Pass
NVNT	n40	5190	Ant0	5149.7	-38.94	4.50	-	60.79	Peak	68.2	Pass
NVNT	n40	5190	Ant0	5149.7	-52.5	4.50	0.45	47.68	Average	54	Pass
NVNT	n40	5190	Ant0	5150	-38.94	4.50	-	60.79	Peak	68.2	Pass
NVNT	n40	5190	Ant0	5150	-52.5	4.50	0.45	47.68	Average	54	Pass
NVNT	n40	5230	Ant0	5350	-47.43	4.50	-	52.3	Peak	68.2	Pass
NVNT	n40	5230	Ant0	5350	-56.36	4.50	0.45	43.82	Average	54	Pass
NVNT	n40	5230	Ant0	5353.08	-45.17	4.50	-	54.56	Peak	68.2	Pass
NVNT	n40	5230	Ant0	5351.19	-55.88	4.50	0.45	44.3	Average	54	Pass
NVNT	n40	5230	Ant0	5460	-49.42	4.50	-	50.31	Peak	68.2	Pass
NVNT	n40	5230	Ant0	5460	-57.3	4.50	0.45	42.88	Average	54	Pass



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Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5180	Ant1	4500	-49.62	4.50	-	50.11	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.24	4.50	0.28	42.77	Average	54	Pass
NVNT	n20	5180	Ant1	5145.4	-37.61	4.50	-	62.12	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5148.2	-53.82	4.50	0.28	46.19	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-41.59	4.50	-	58.14	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-53.62	4.50	0.28	46.39	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-48.5	4.50	-	51.23	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.35	4.50	0.28	43.66	Average	54	Pass
NVNT	n20	5240	Ant1	5380.08	-46.27	4.50	-	53.46	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350.56	-56.15	4.50	0.28	43.86	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.31	4.50	-	50.42	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-56.77	4.50	0.28	43.24	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-48.91	4.50	-	50.82	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.67	4.50	0.45	42.51	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-40.49	4.50	-	59.24	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5148.97	-52.31	4.50	0.45	47.87	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-40.49	4.50	-	59.24	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-52.87	4.50	0.45	47.31	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.88	4.50	-	50.85	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-56.58	4.50	0.45	43.6	Average	54	Pass
NVNT	n40	5230	Ant1	5399.79	-45.51	4.50	-	54.22	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5390.34	-55.98	4.50	0.45	44.2	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-50.3	4.50	-	49.43	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-56.84	4.50	0.45	43.34	Average	54	Pass



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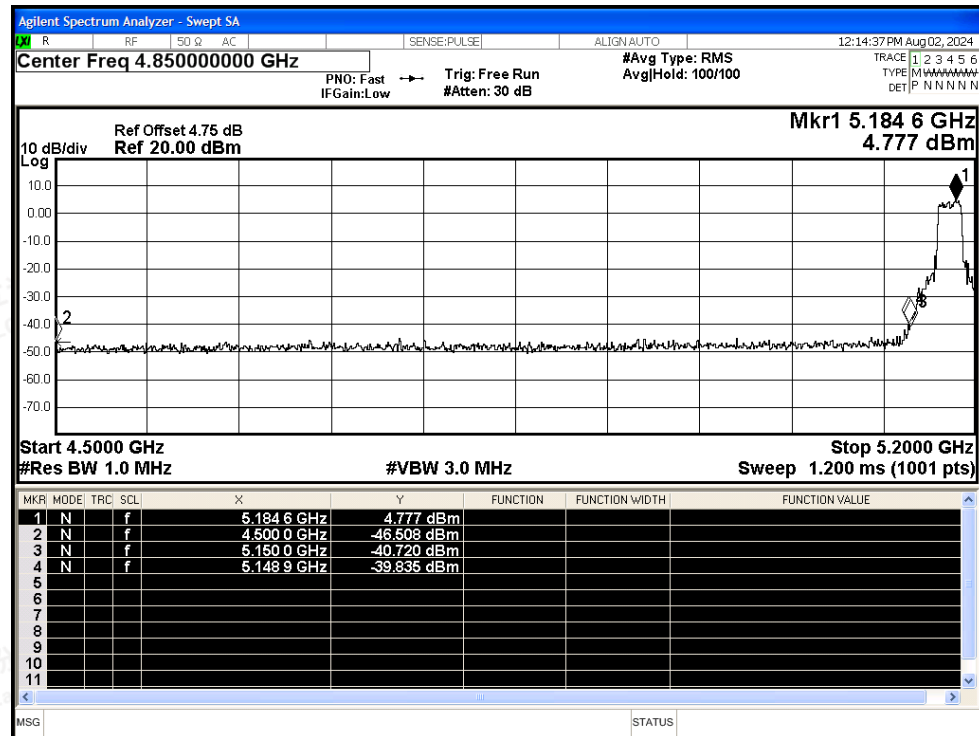
Condition	Mode	Frequency (MHz)	Ant0 Power (dBm)	Ant1 Power (dBm)	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5180	-46.51	-49.62	7.51	57.82	Peak	68.2	Pass
NVNT	n20	5180	-57.44	-57.24	7.51	48.69	Average	54	Pass
NVNT	n20	5180	-39.84	-37.61	7.51	67.10	Peak	68.2	Pass
NVNT	n20	5180	-51.76	-53.82	7.51	53.30	Average	54	Pass
NVNT	n20	5180	-40.72	-41.59	7.51	64.61	Peak	68.2	Pass
NVNT	n20	5180	-51.22	-53.62	7.51	53.69	Average	54	Pass
NVNT	n20	5240	-48.75	-48.5	7.51	57.13	Peak	68.2	Pass
NVNT	n20	5240	-56.43	-56.35	7.51	49.64	Average	54	Pass
NVNT	n20	5240	-46.03	-46.27	7.51	59.60	Peak	68.2	Pass
NVNT	n20	5240	-56	-56.15	7.51	49.96	Average	54	Pass
NVNT	n20	5240	-47.08	-49.31	7.51	57.63	Peak	68.2	Pass
NVNT	n20	5240	-56.8	-56.77	7.51	49.25	Average	54	Pass
NVNT	n40	5190	-48.43	-48.91	7.51	57.08	Peak	68.2	Pass
NVNT	n40	5190	-56.95	-57.67	7.51	48.90	Average	54	Pass
NVNT	n40	5190	-38.94	-40.49	7.51	66.07	Peak	68.2	Pass
NVNT	n40	5190	-52.5	-52.31	7.51	53.80	Average	54	Pass
NVNT	n40	5190	-38.94	-40.49	7.51	66.07	Peak	68.2	Pass
NVNT	n40	5190	-52.5	-52.87	7.51	53.52	Average	54	Pass
NVNT	n40	5230	-47.43	-48.88	7.51	57.63	Peak	68.2	Pass
NVNT	n40	5230	-56.36	-56.58	7.51	49.73	Average	54	Pass
NVNT	n40	5230	-45.17	-45.51	7.51	60.41	Peak	68.2	Pass
NVNT	n40	5230	-55.88	-55.98	7.51	50.27	Average	54	Pass
NVNT	n40	5230	-49.42	-50.3	7.51	55.90	Peak	68.2	Pass
NVNT	n40	5230	-57.3	-56.84	7.51	49.13	Average	54	Pass



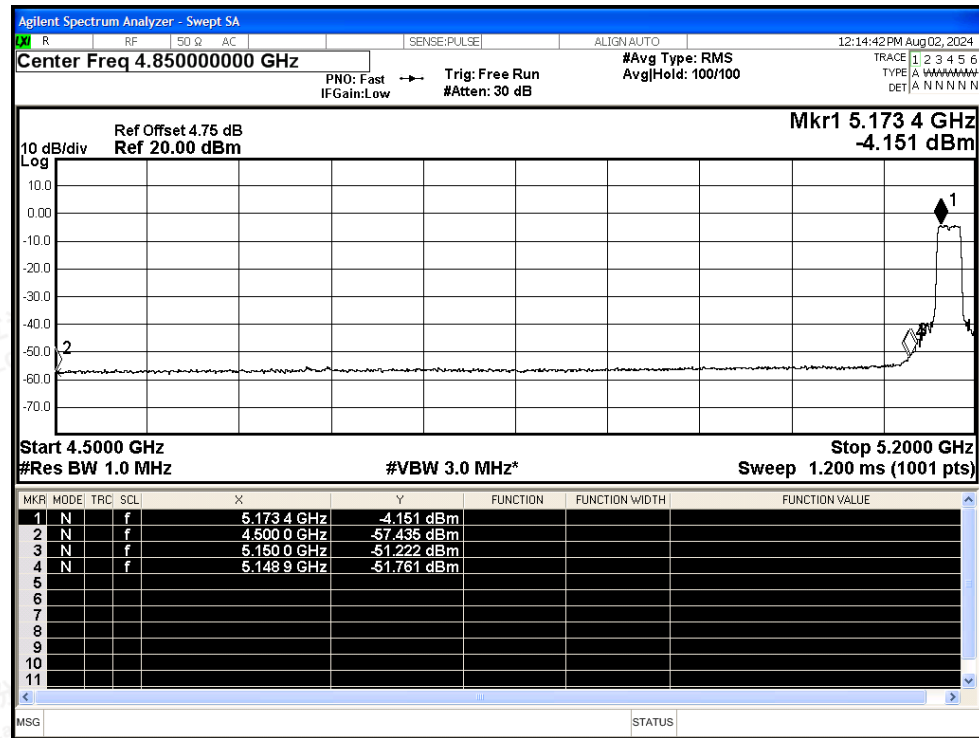


Test Graphs

Restrict Band NVNT n20 5180MHz Ant0 Peak



Restrict Band NVNT n20 5180MHz Ant0 Average



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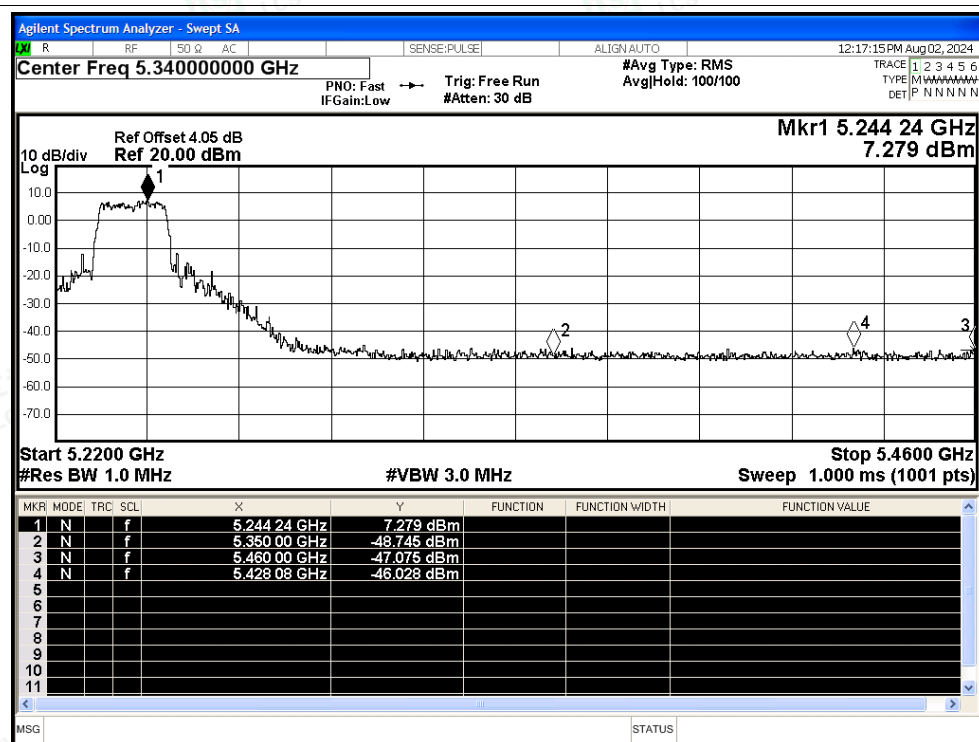
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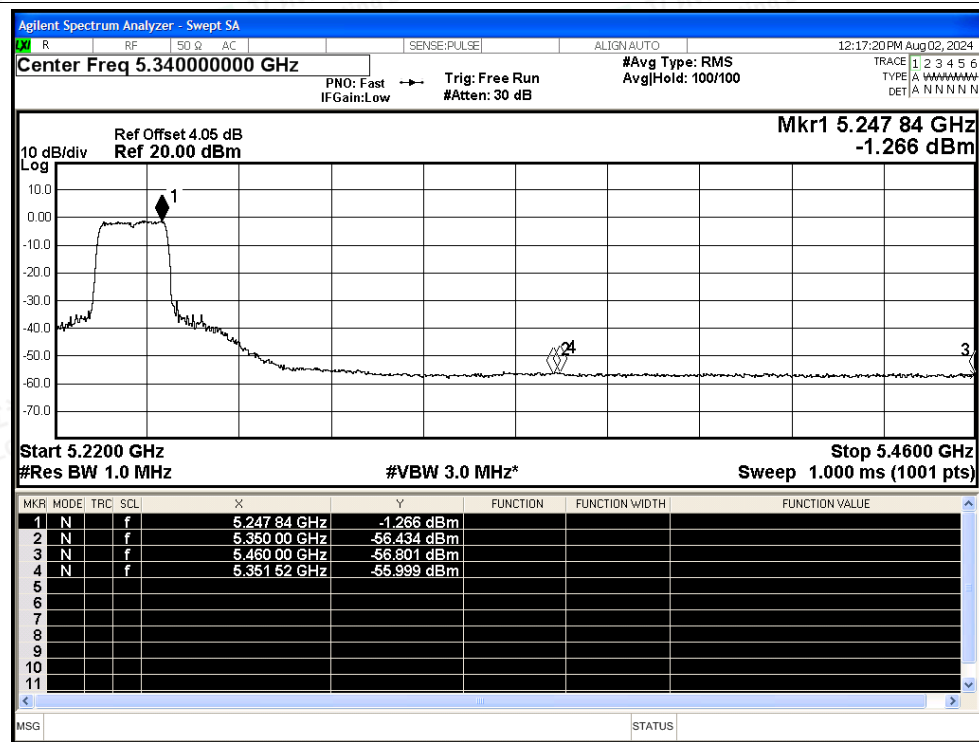
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant0 Peak



Restrict Band NVNT n20 5240MHz Ant0 Average



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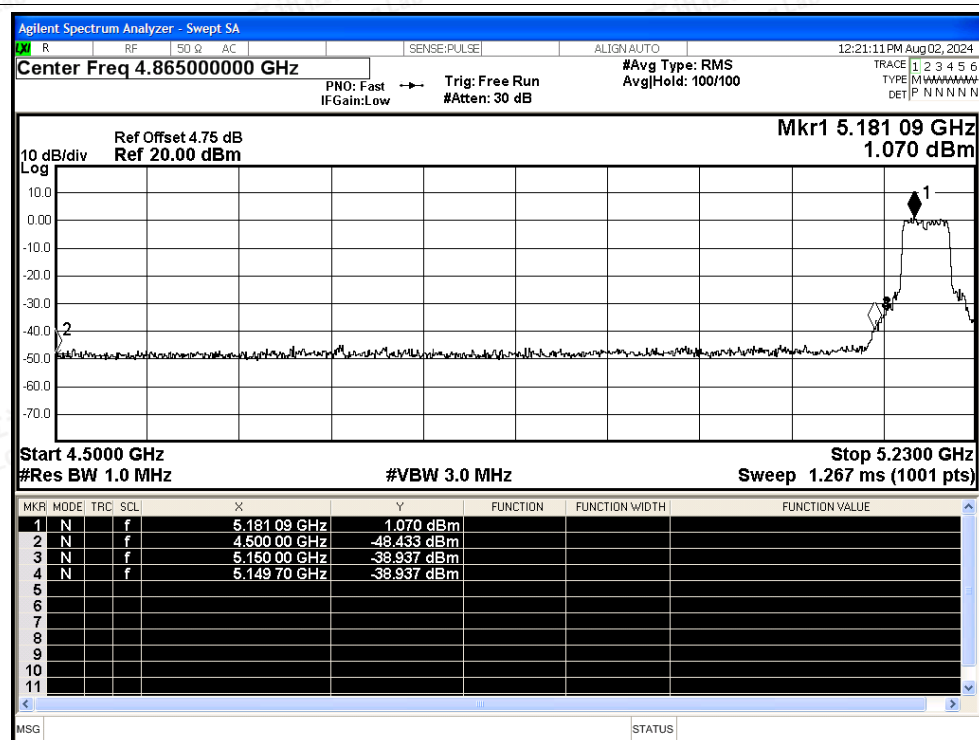
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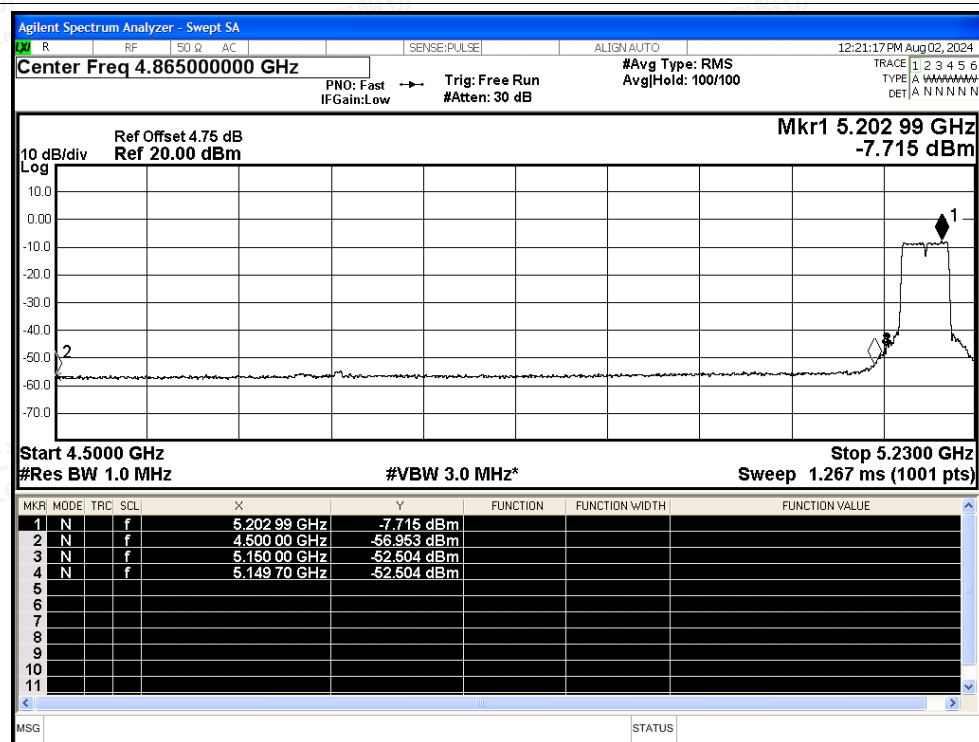
Scan code to check authenticity



Restrict Band NVNT n40 5190MHz Ant0 Peak



Restrict Band NVNT n40 5190MHz Ant0 Average



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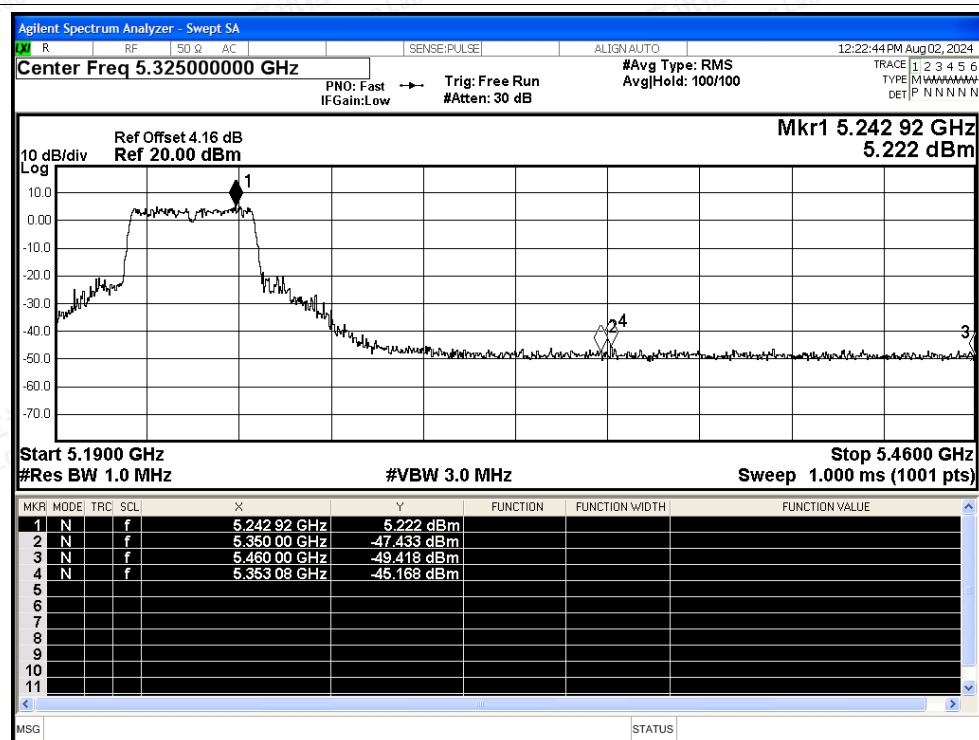
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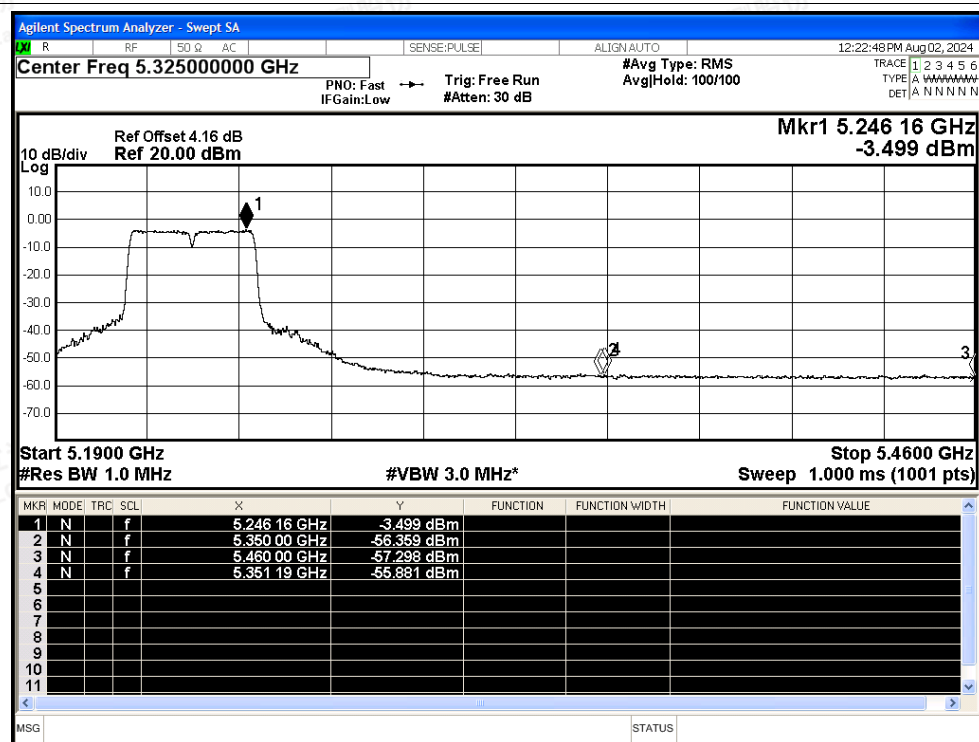
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Restrict Band NVNT n40 5230MHz Ant0 Peak



Restrict Band NVNT n40 5230MHz Ant0 Average



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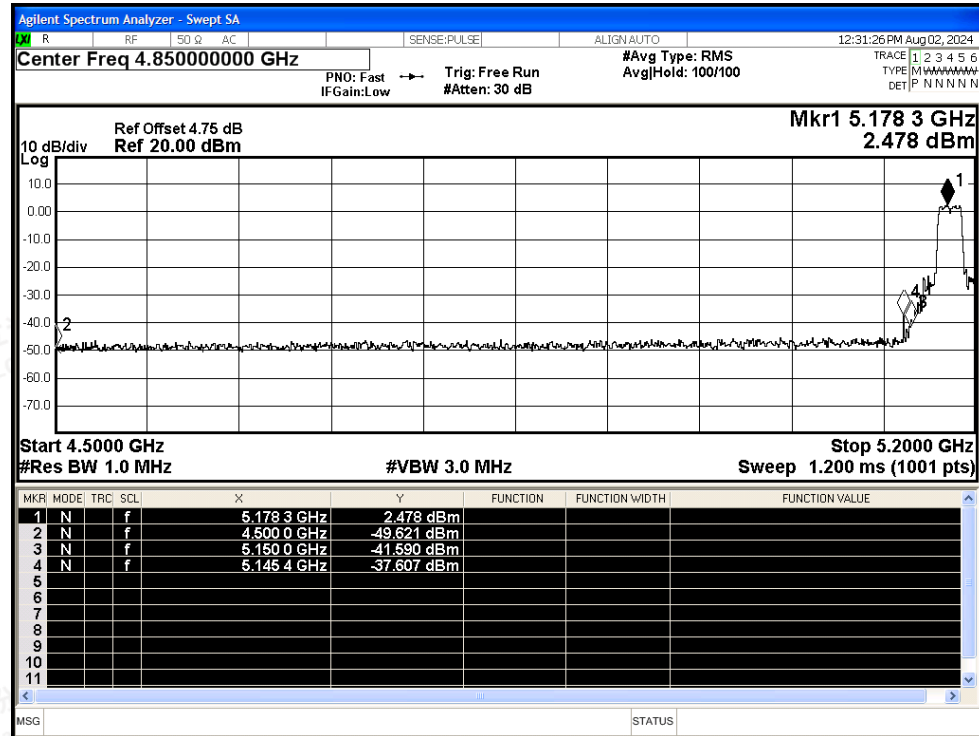
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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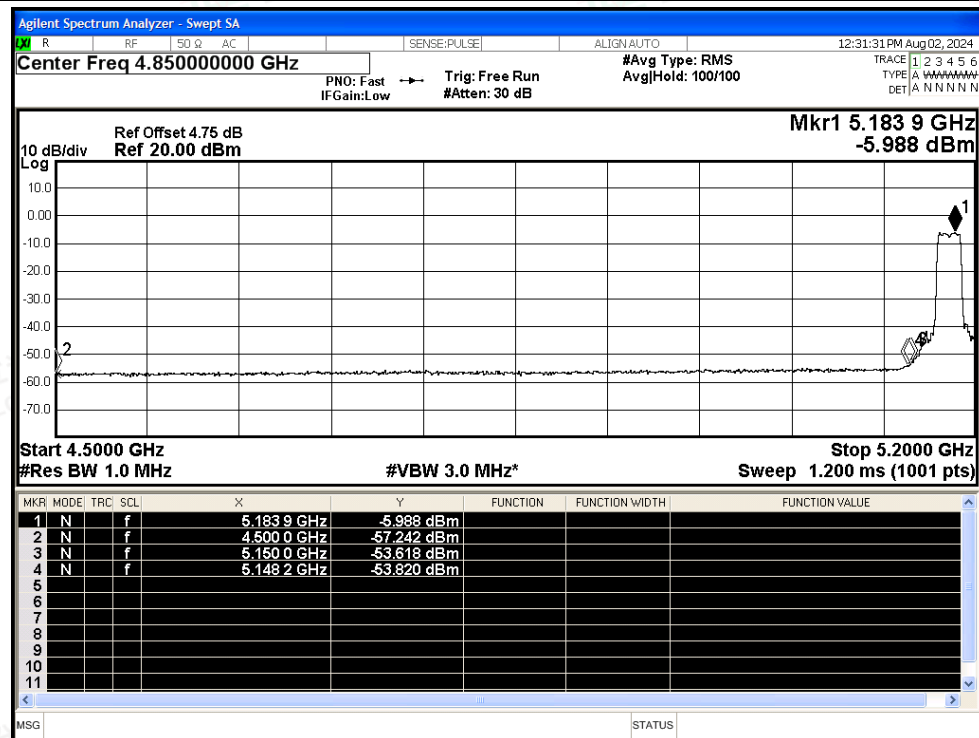


Test Graphs

Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

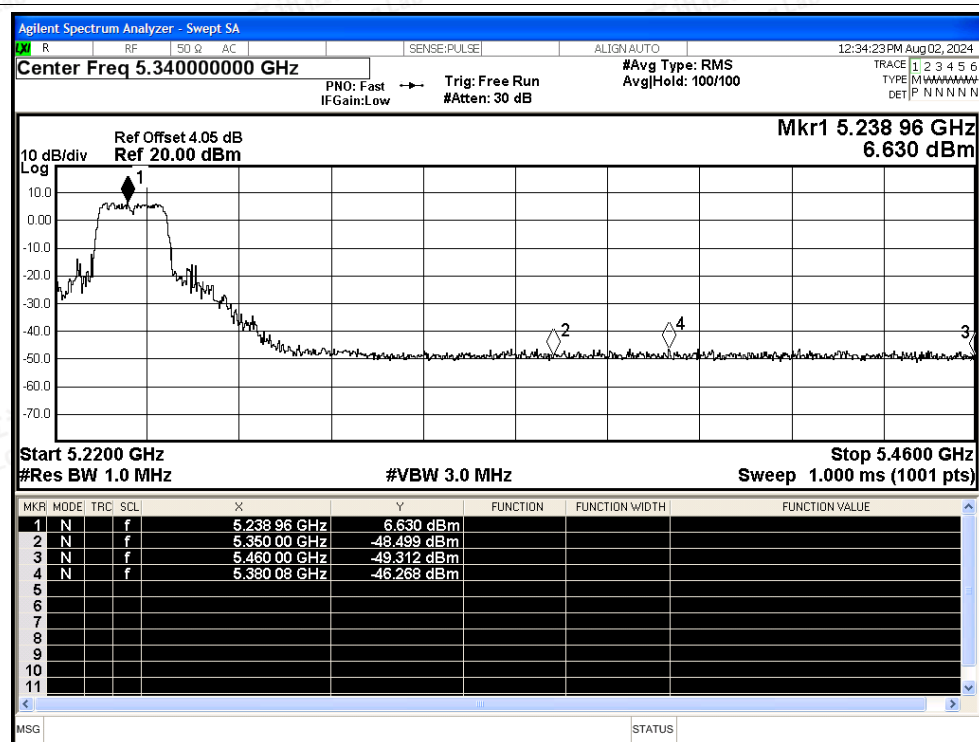
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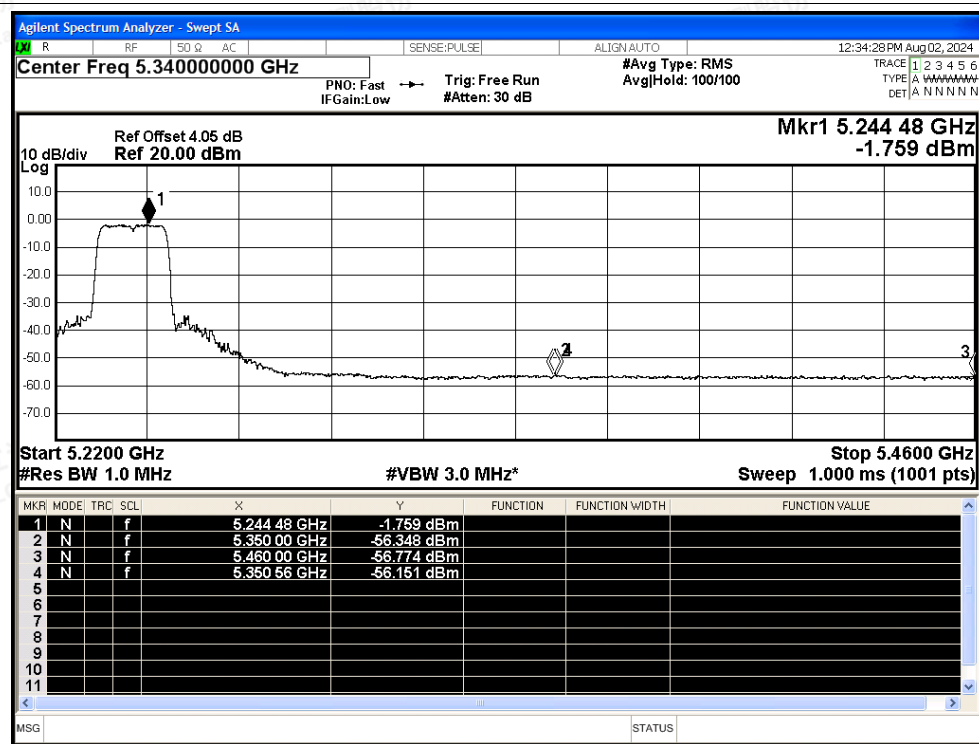
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

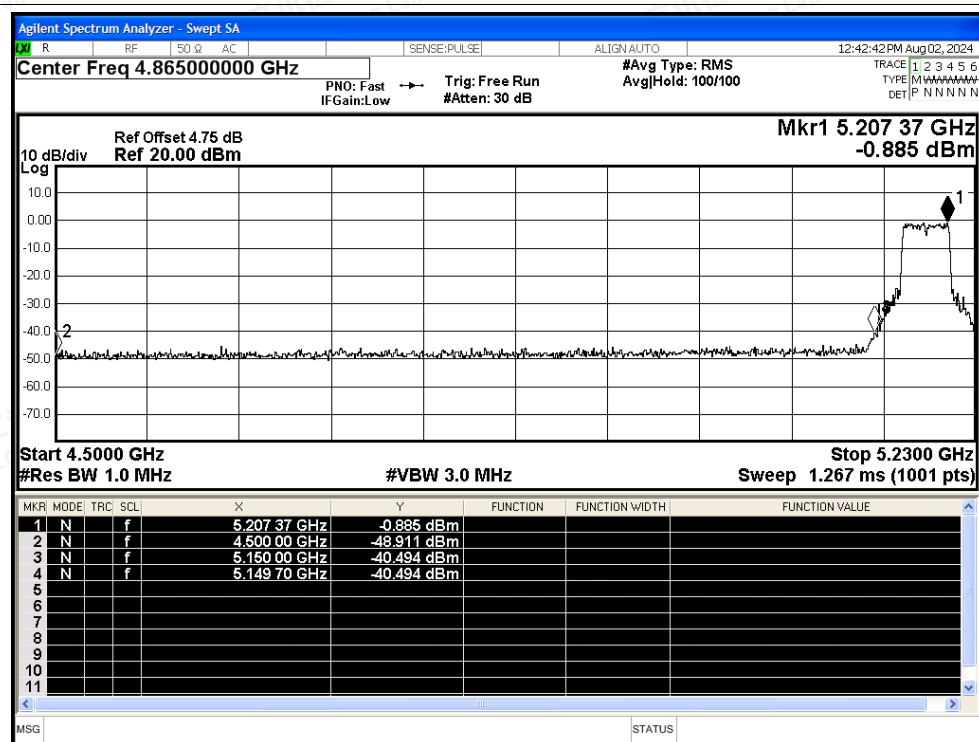
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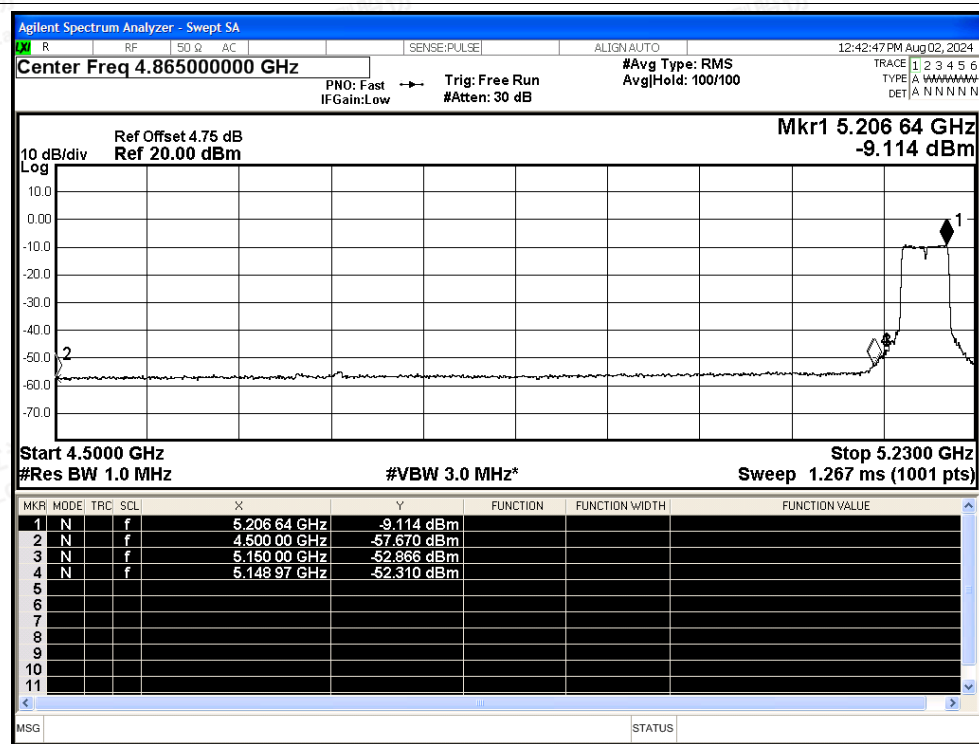
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Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

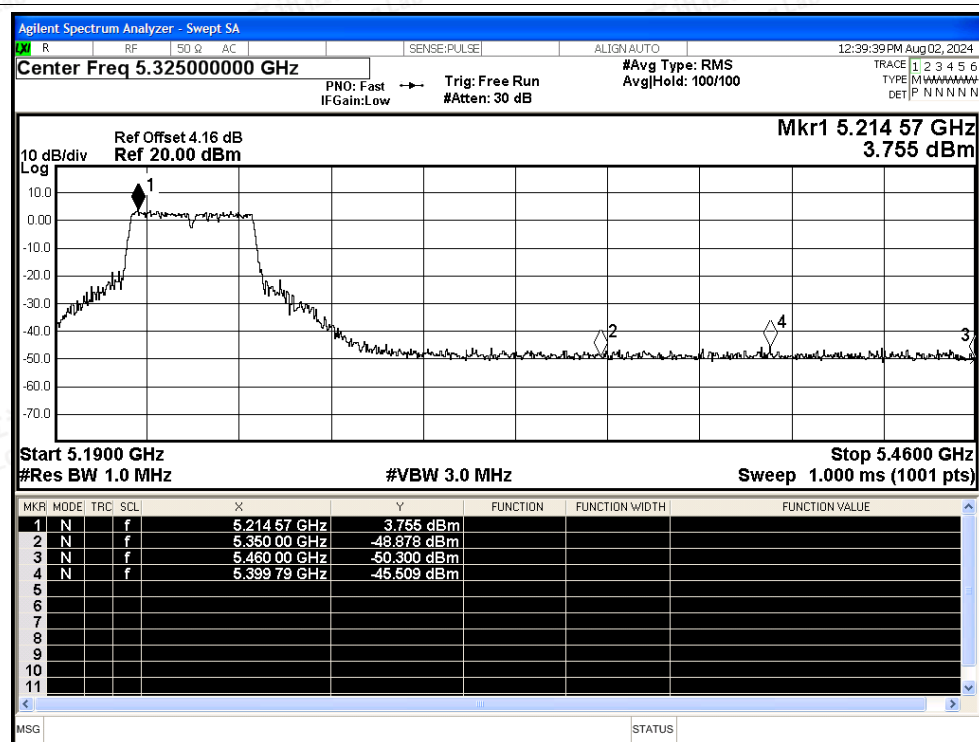
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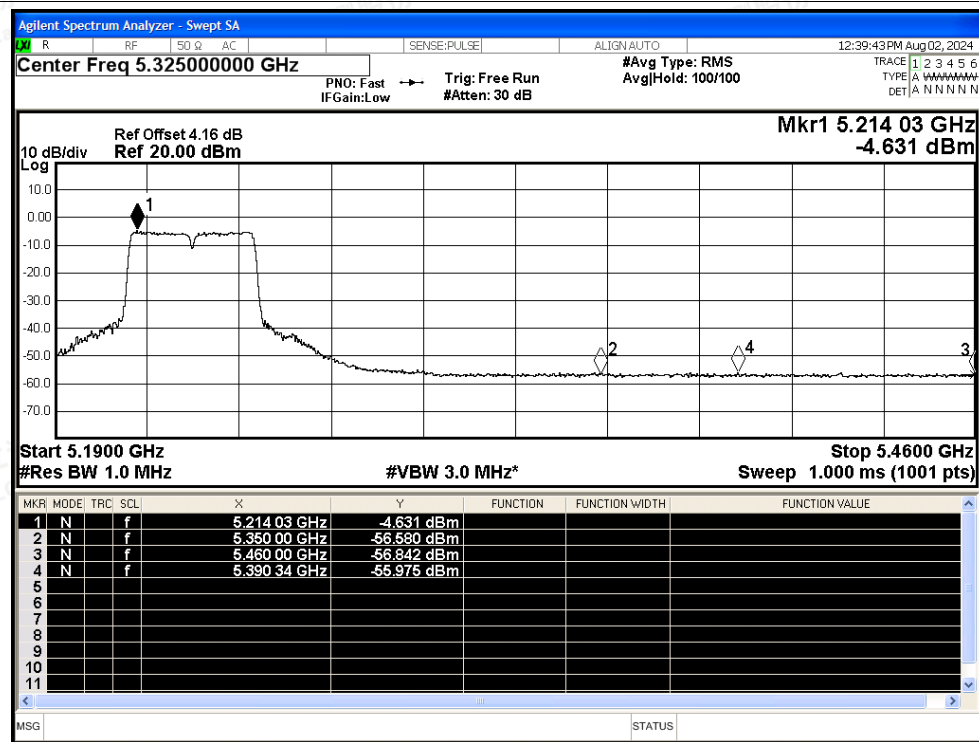
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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A.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n20	5180	Ant0	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant0	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant0	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant0	5189.96	-40000	-7.71	25	Pass
NVNT	n40	5230	Ant0	5230	0	0	25	Pass

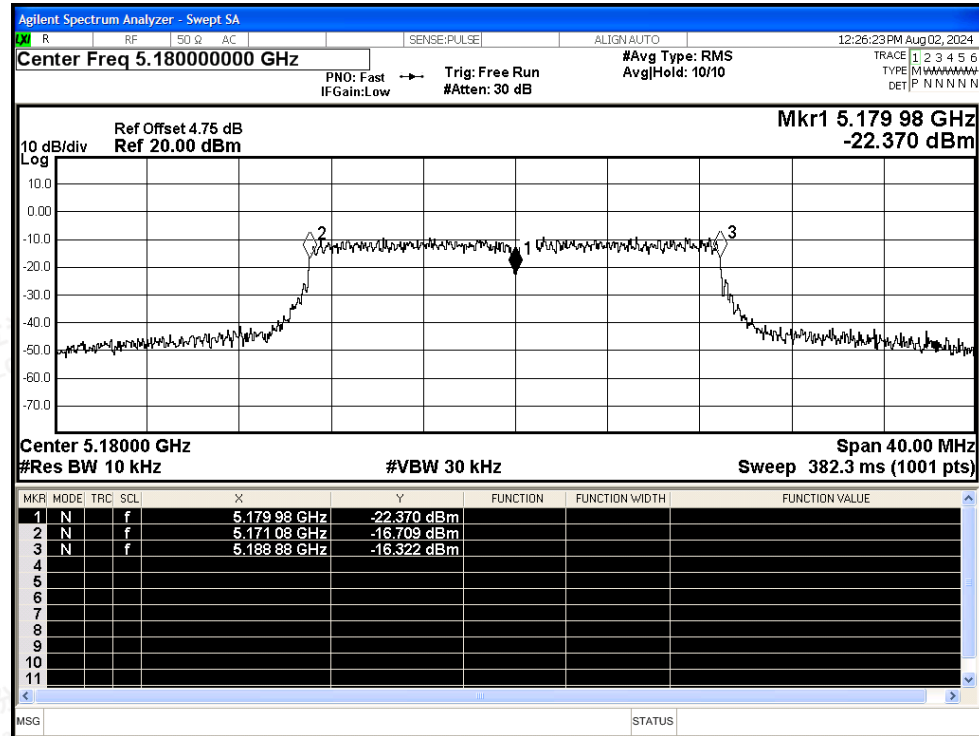


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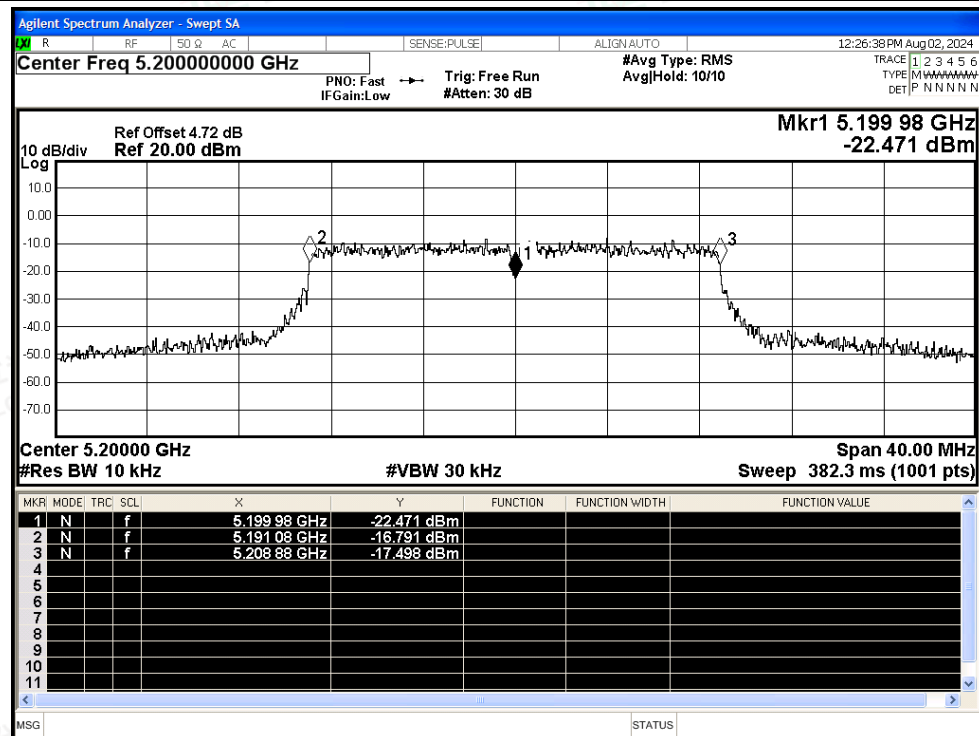


Test Graphs

Freq. Stability NVNT n20 5180MHz Ant0



Freq. Stability NVNT n20 5200MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

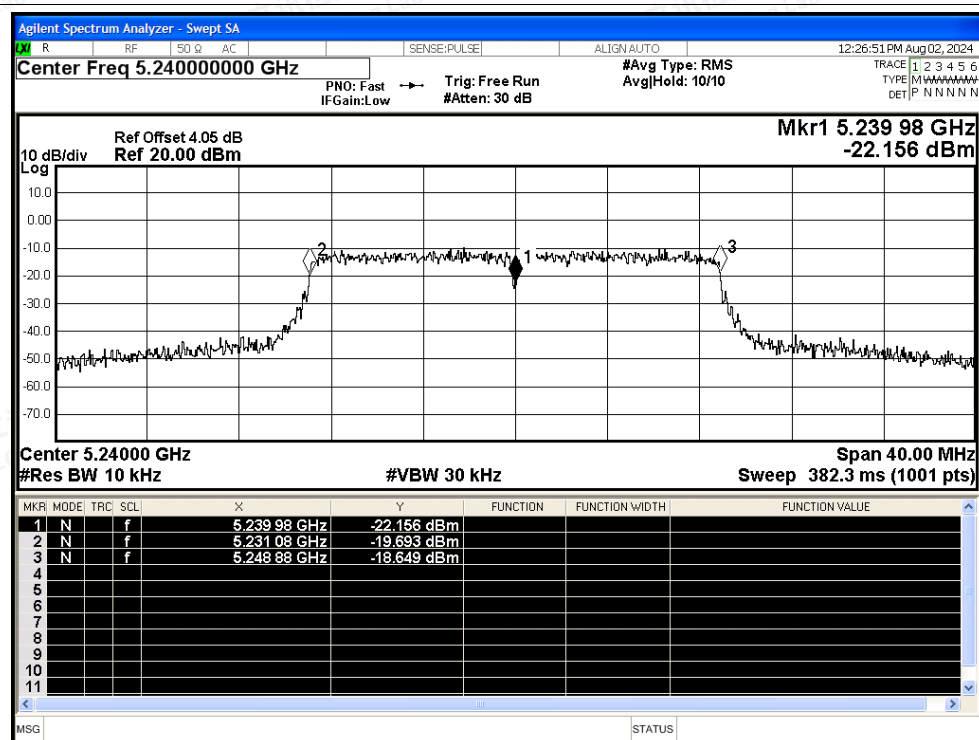
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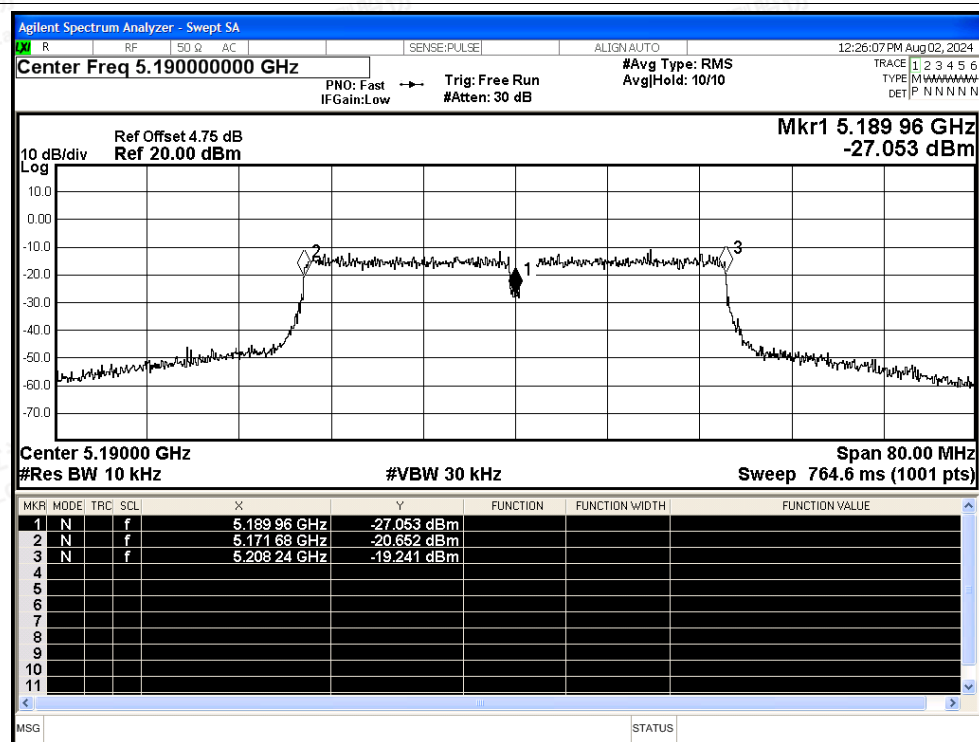
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Freq. Stability NVNT n20 5240MHz Ant0



Freq. Stability NVNT n40 5190MHz Ant0

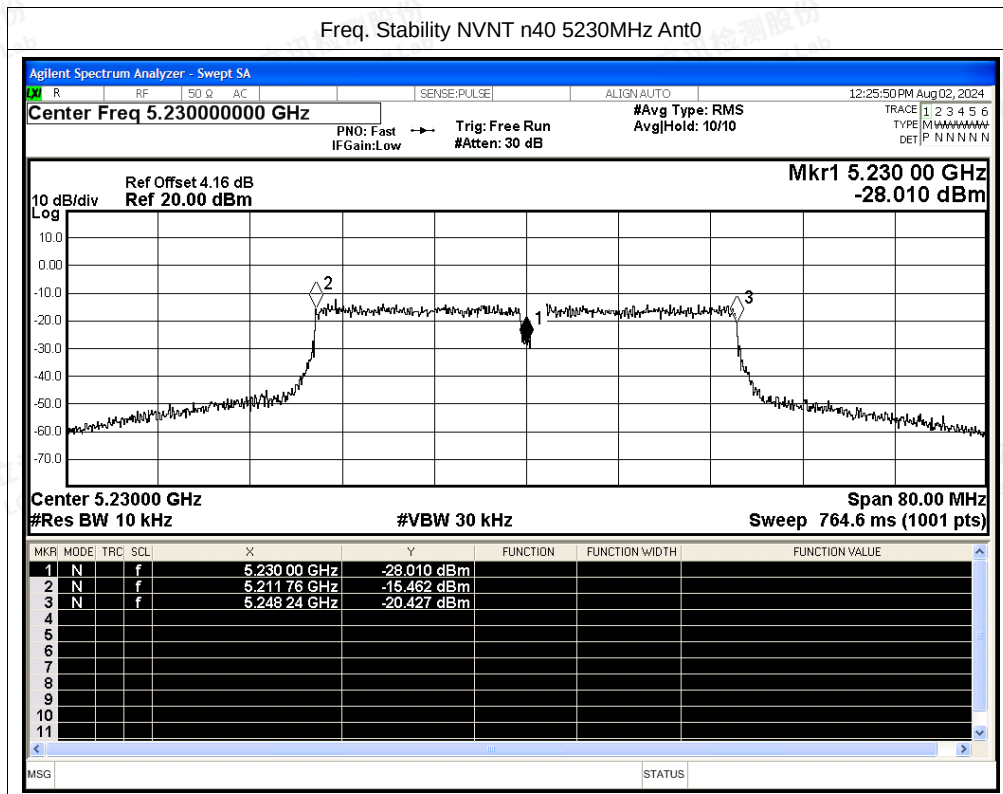


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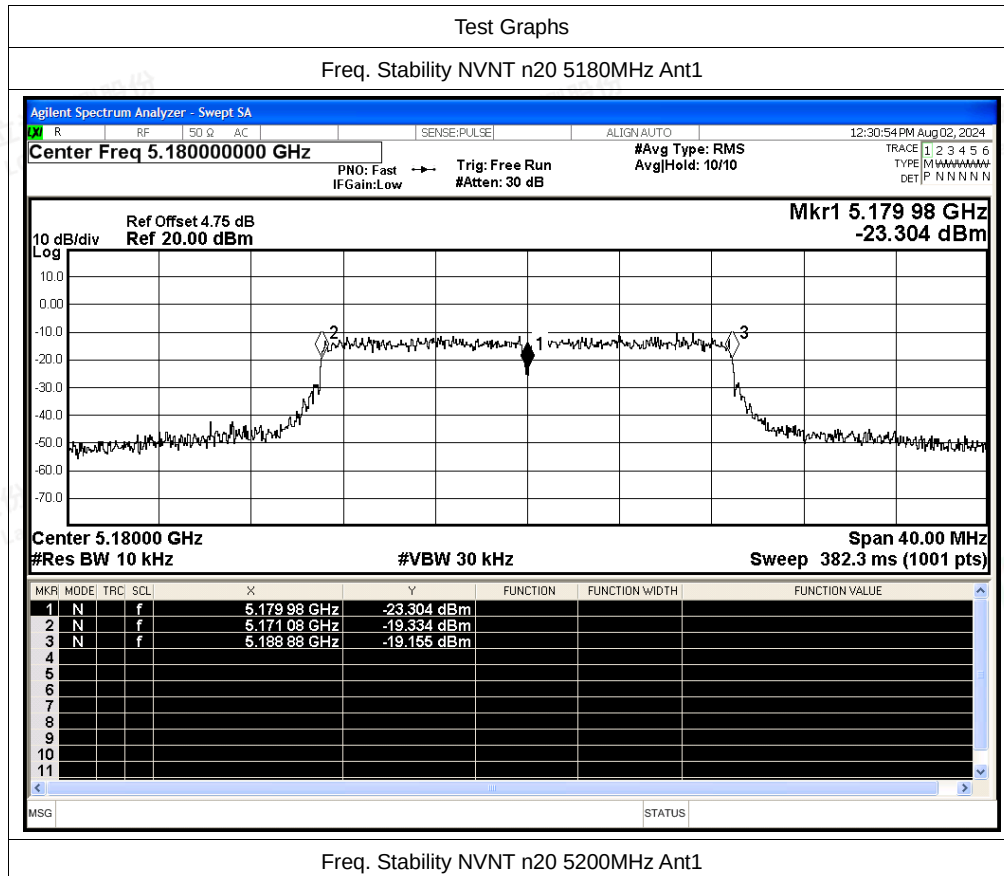
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Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n40	5190	Ant1	5190.04	40000	7.71	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass

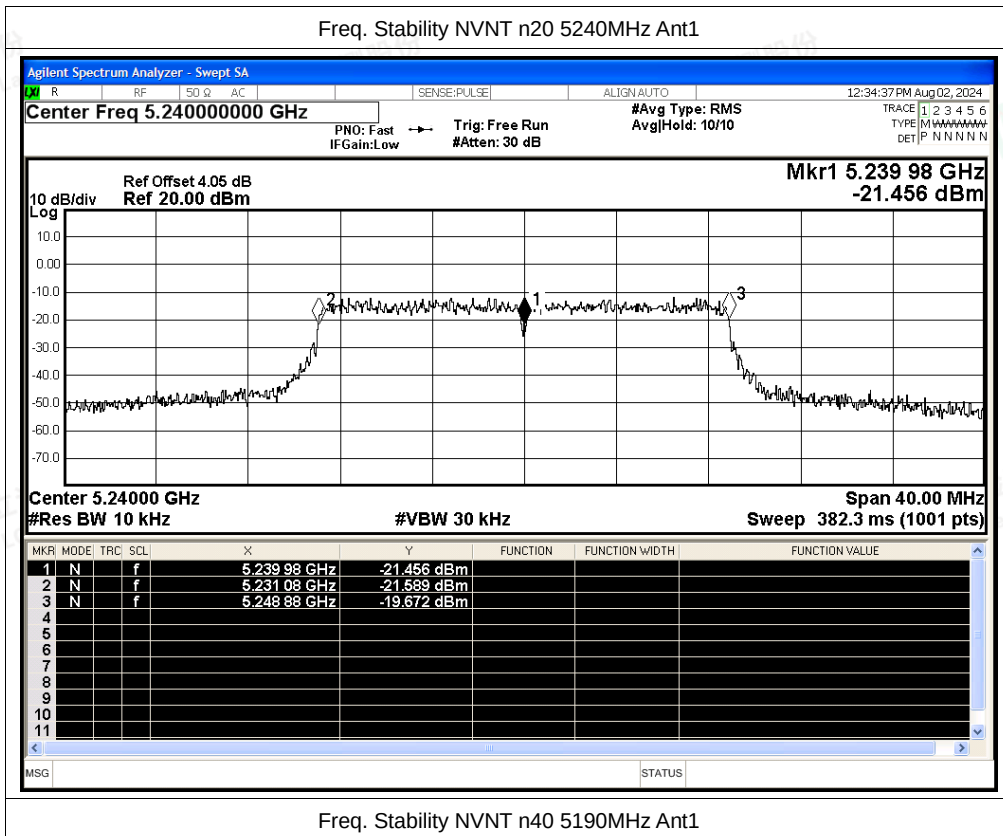
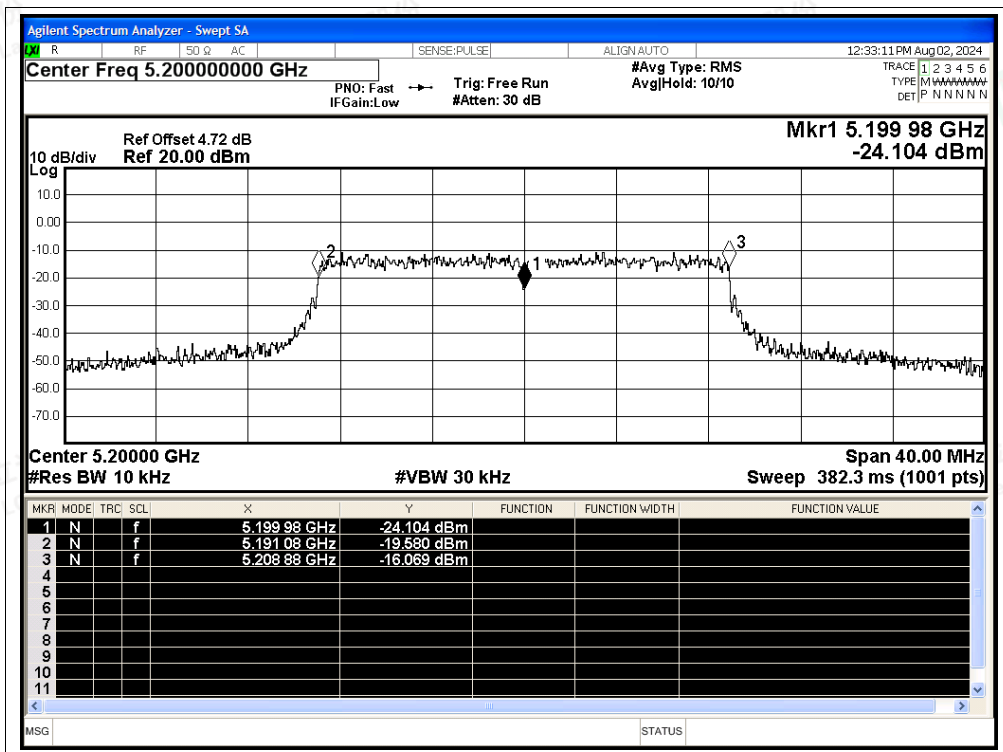


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Freq. Stability NVNT n40 5190MHz Ant1

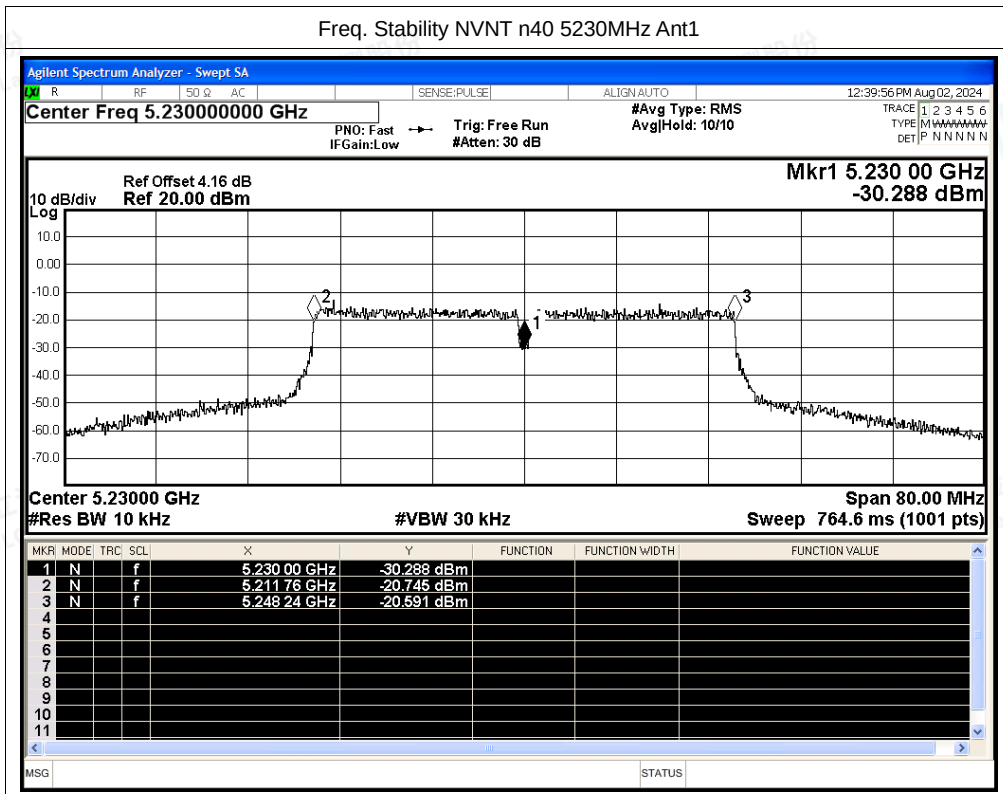
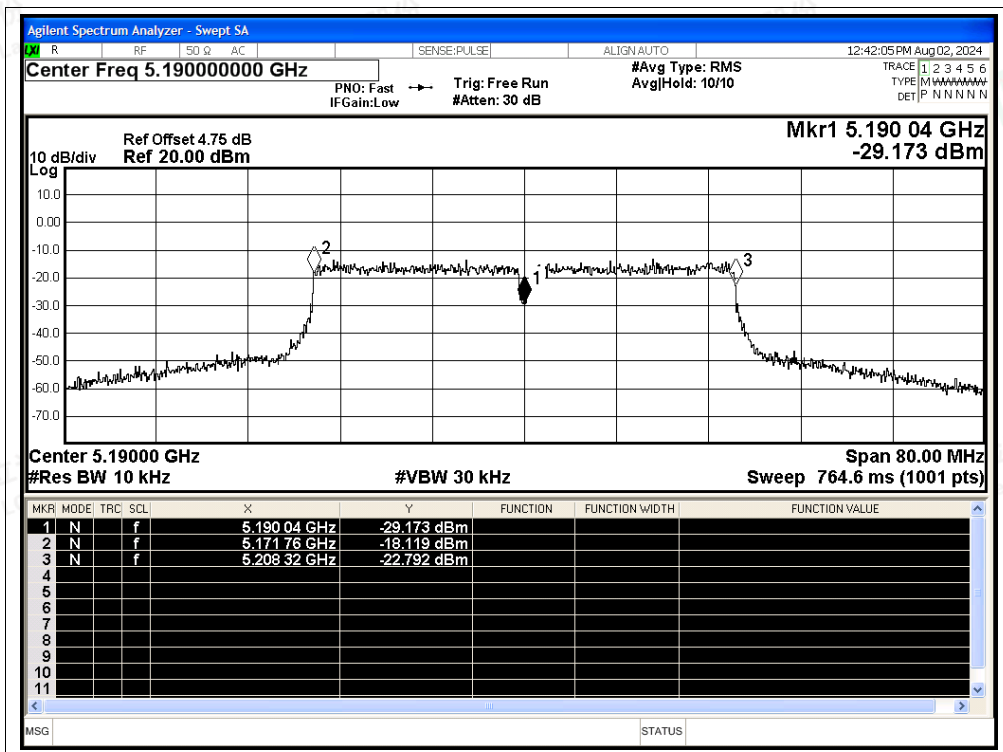


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A.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	n20	5180	Ant0	93.77	0.28	1.07
NVNT	n20	5200	Ant0	93.77	0.28	1.07
NVNT	n20	5240	Ant0	93.67	0.28	1.07
NVNT	n40	5190	Ant0	90.14	0.45	1.74
NVNT	n40	5230	Ant0	90.14	0.45	1.74

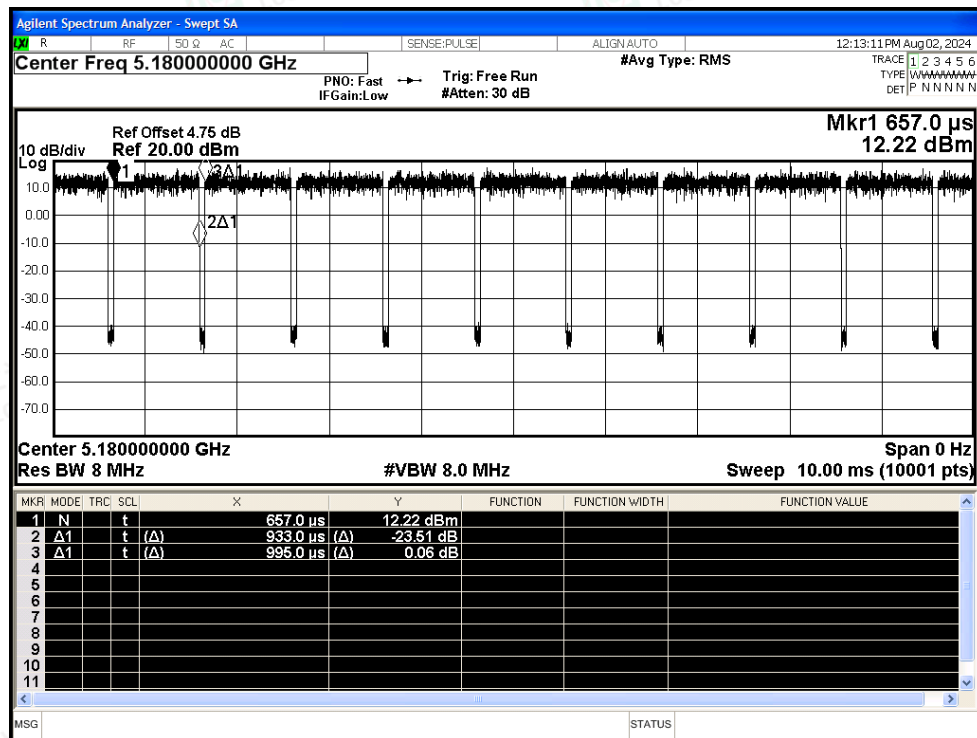


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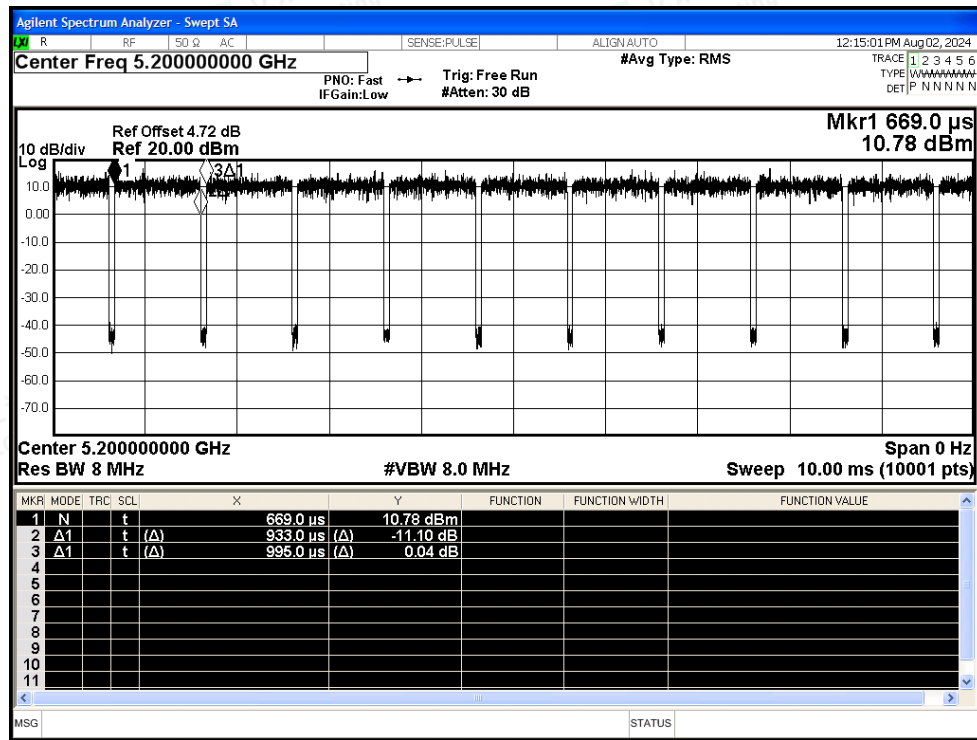


Test Graphs

Duty Cycle NVNT n20 5180MHz Ant0



Duty Cycle NVNT n20 5200MHz Ant0

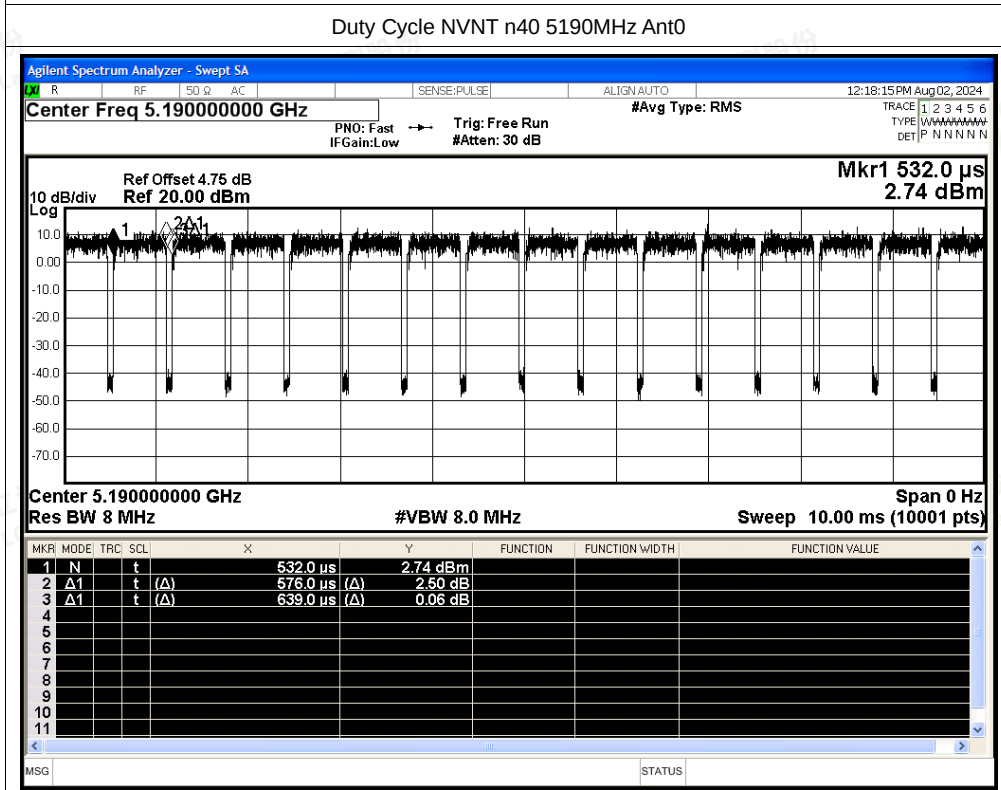
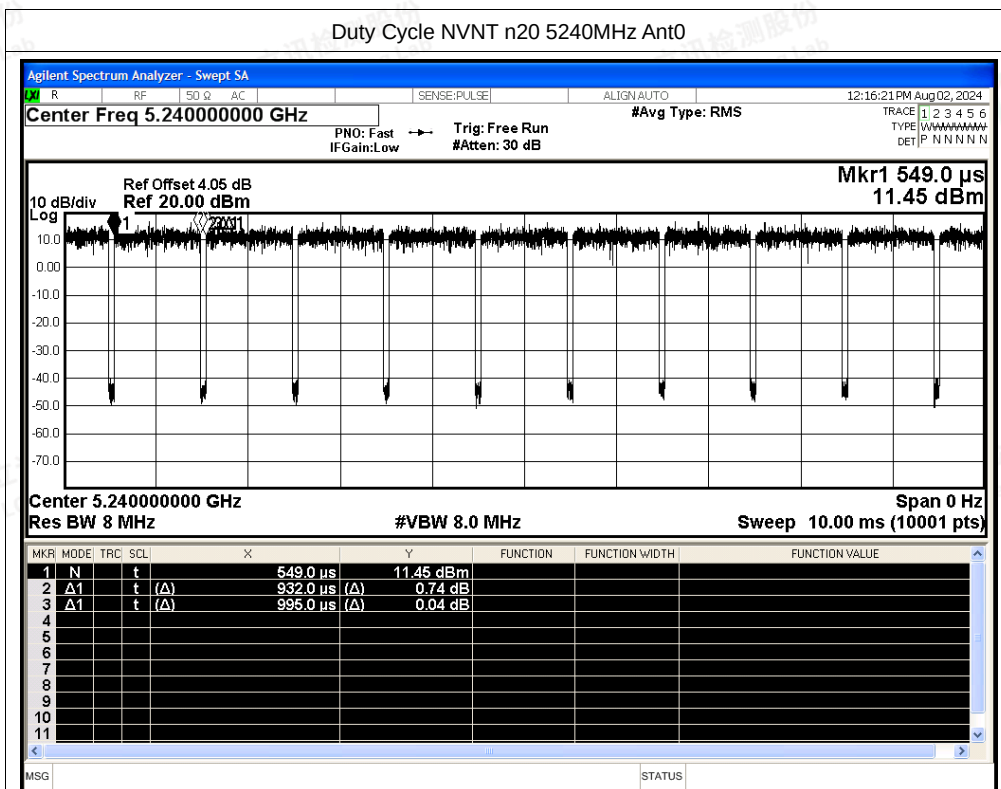


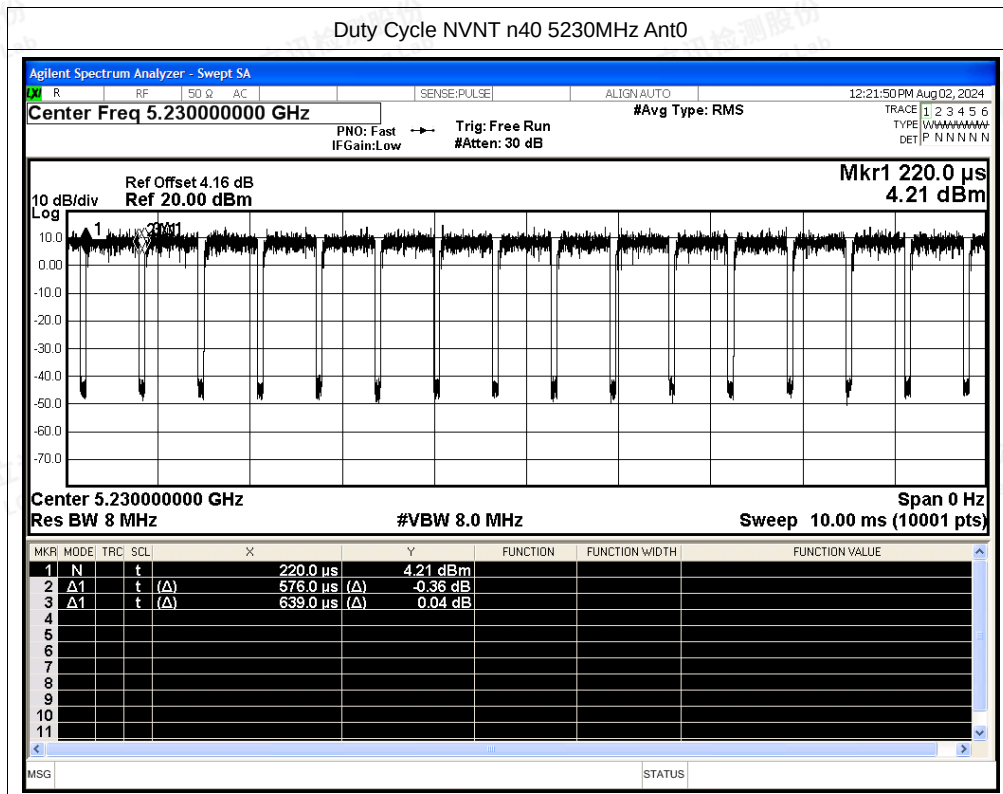
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Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	n20	5180	Ant1	93.77	0.28	1.07
NVNT	n20	5200	Ant1	93.67	0.28	1.07
NVNT	n20	5240	Ant1	93.77	0.28	1.07
NVNT	n40	5190	Ant1	90.14	0.45	1.74
NVNT	n40	5230	Ant1	90.14	0.45	1.74

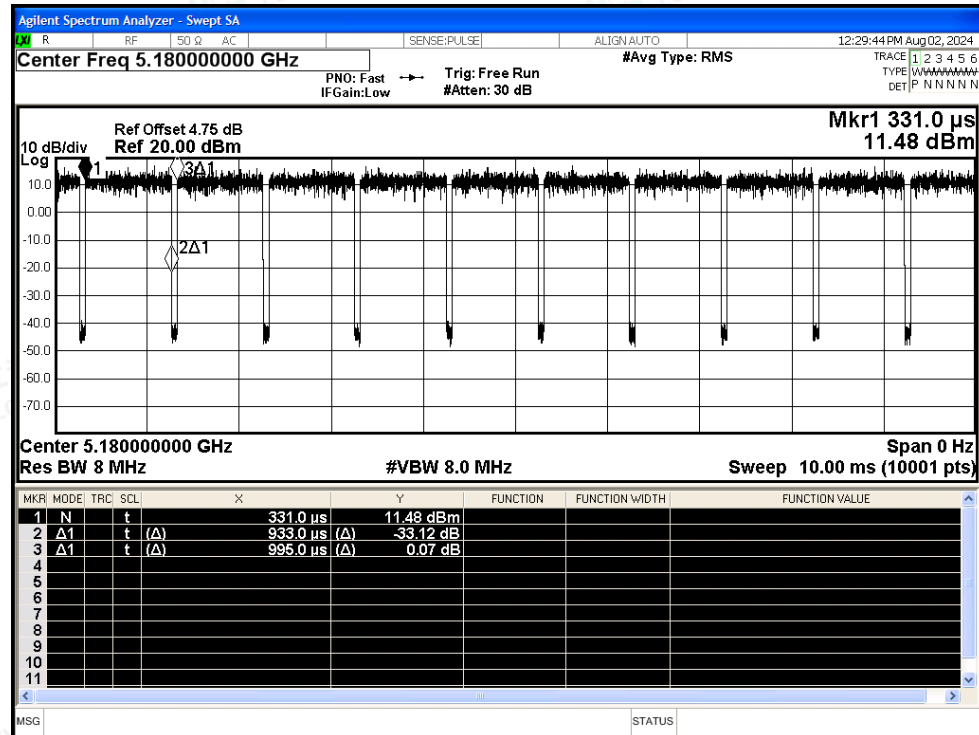


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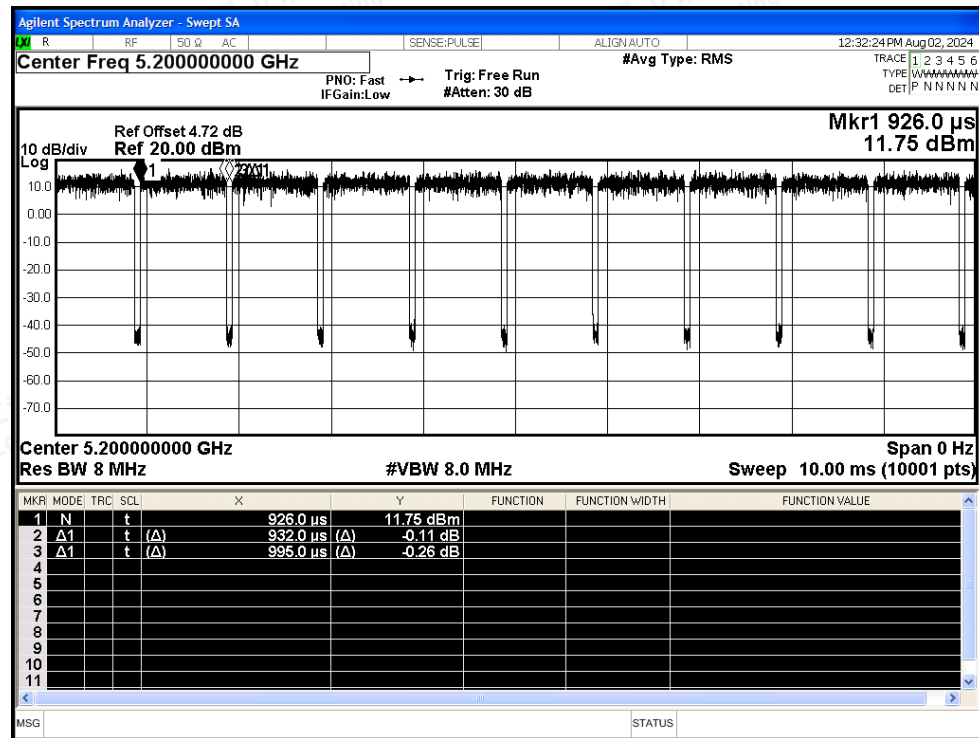


Test Graphs

Duty Cycle NVNT n20 5180MHz Ant1



Duty Cycle NVNT n20 5200MHz Ant1

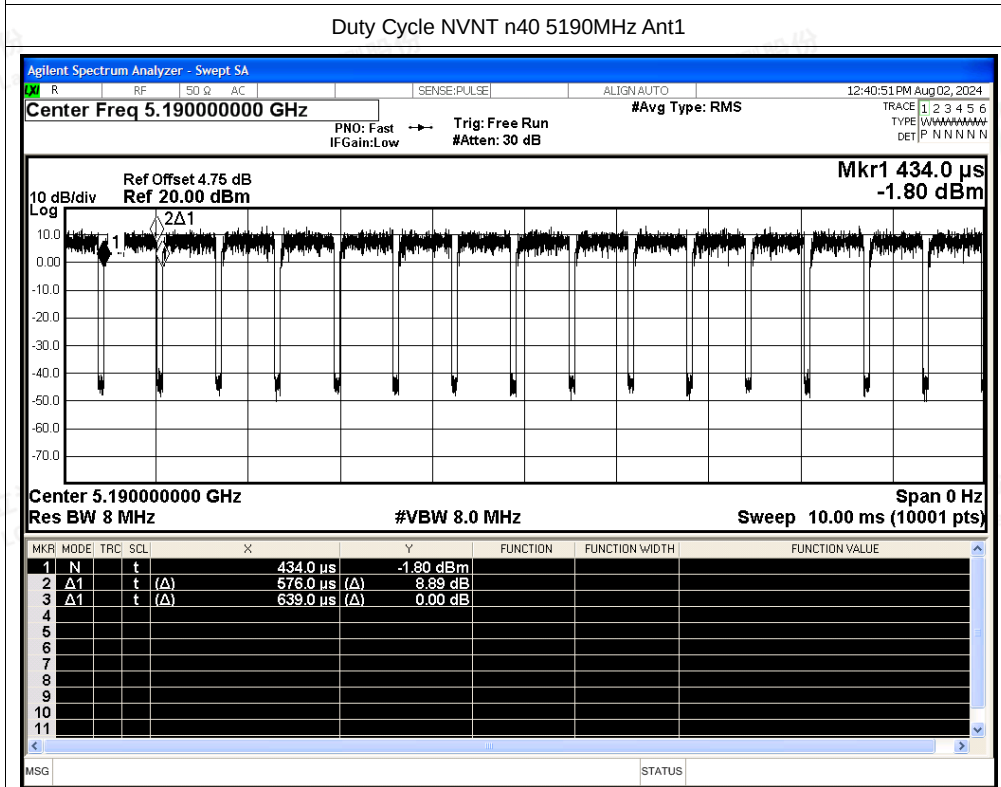
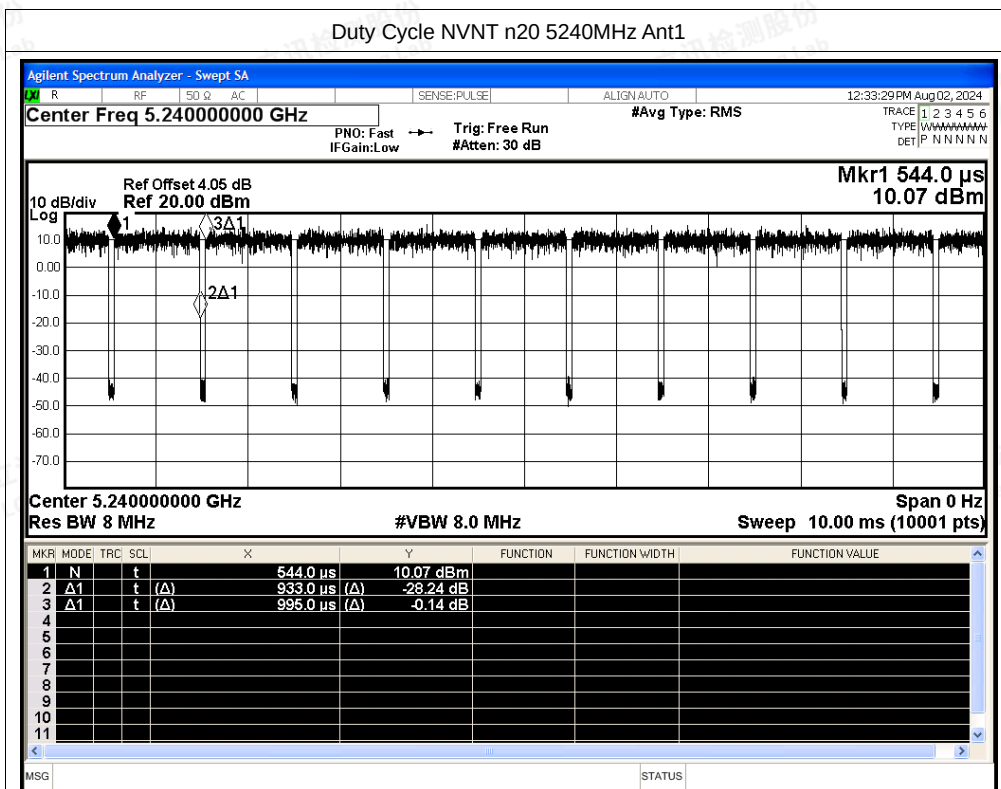


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