



Appendix D

RF Test Data for 5.3GWIFI(Conducted Measurement)

Product Name: Smart Pet Feeder

Test Model: ACF100W

Environmental Conditions

Temperature:	23.3° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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D.1 -26dB Bandwidth

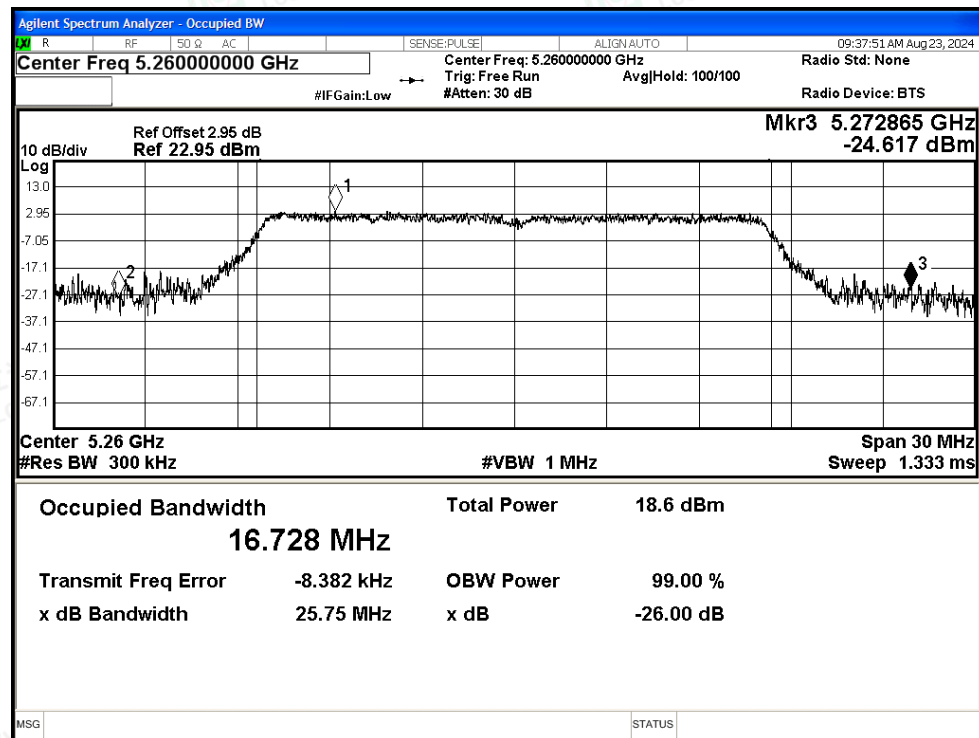
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5260	Ant1	25.748	---	Pass
NVNT	a	5300	Ant1	27.239	---	Pass
NVNT	a	5320	Ant1	29.125	---	Pass
NVNT	n20	5260	Ant1	28.738	---	Pass
NVNT	n20	5300	Ant1	27.266	---	Pass
NVNT	n20	5320	Ant1	28.423	---	Pass
NVNT	n40	5270	Ant1	41.913	---	Pass
NVNT	n40	5310	Ant1	39.681	---	Pass



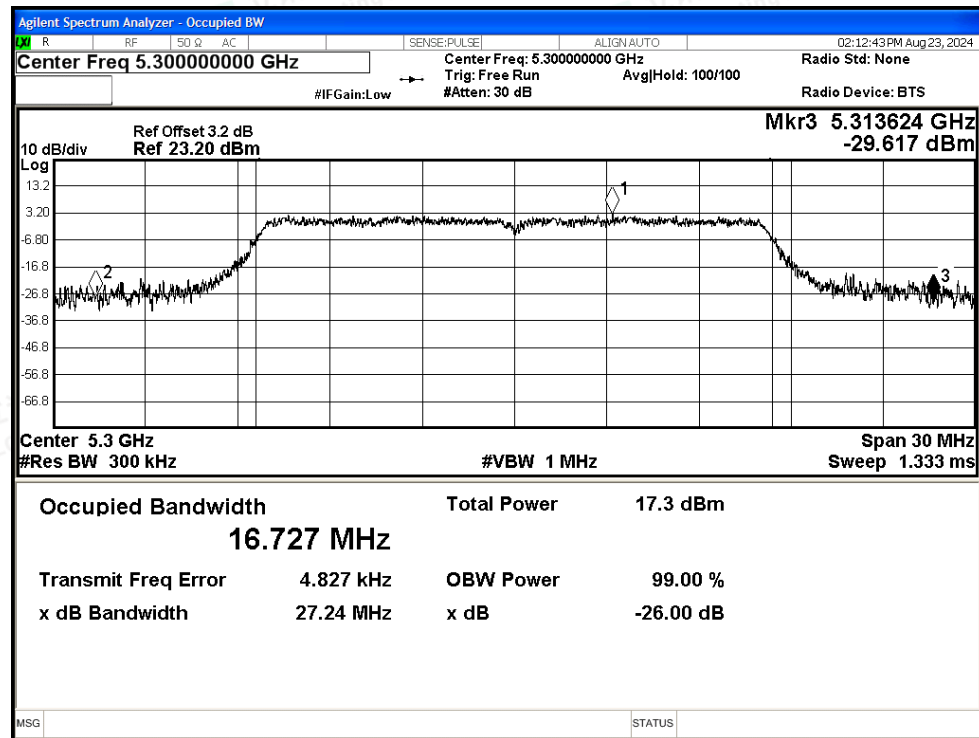


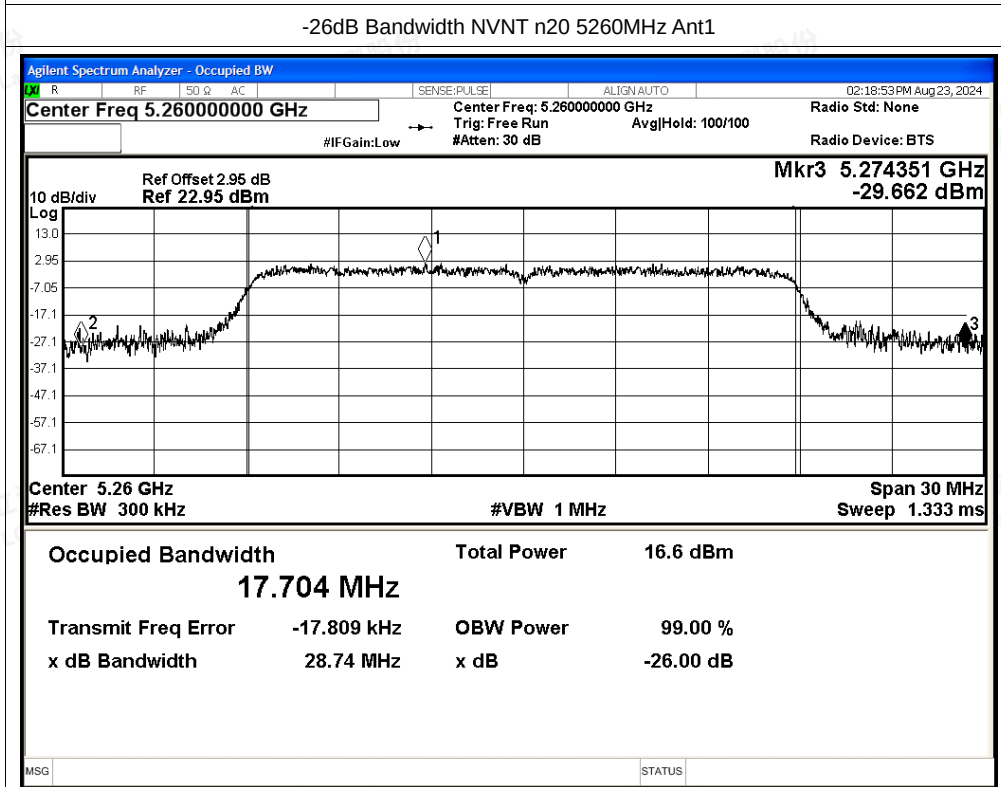
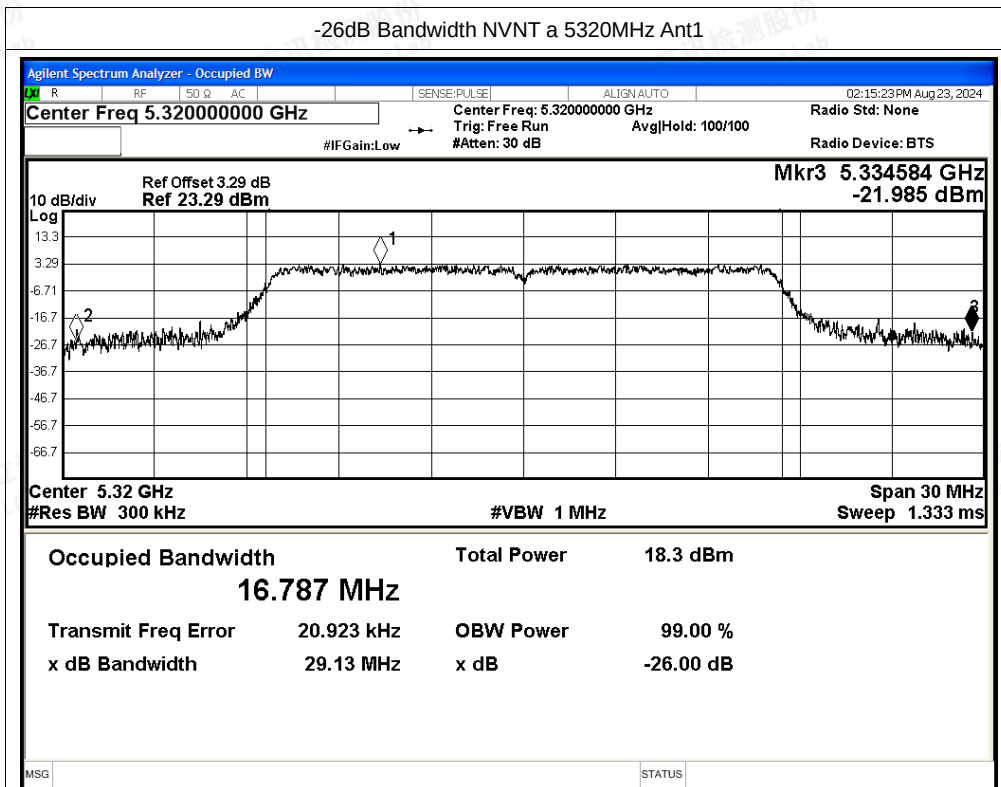
Test Graphs

-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5300MHz Ant1





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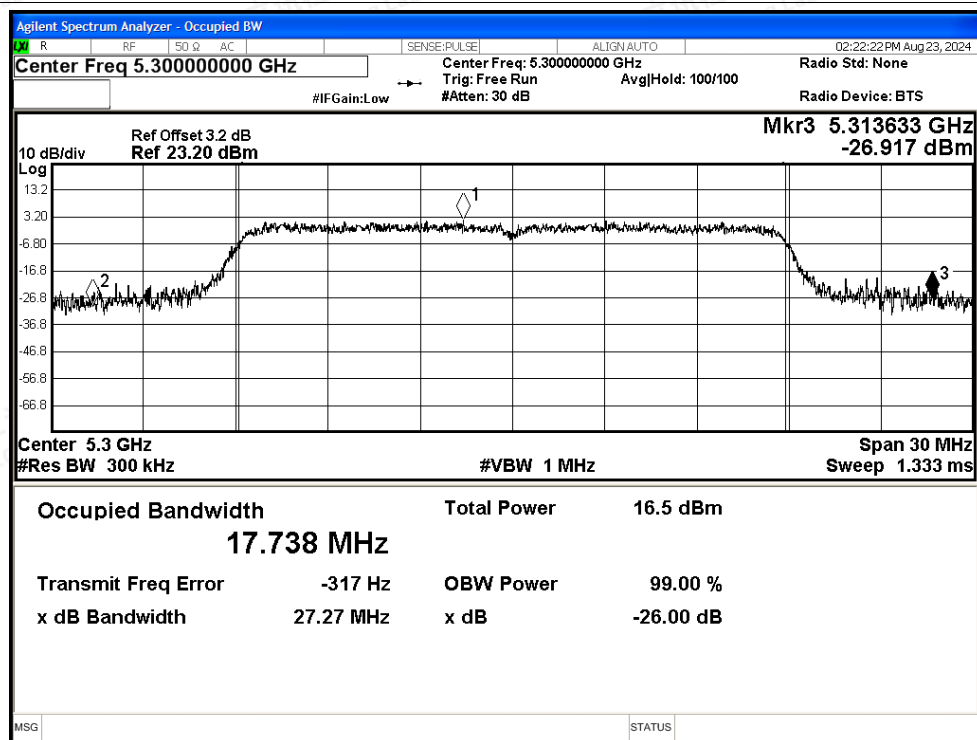
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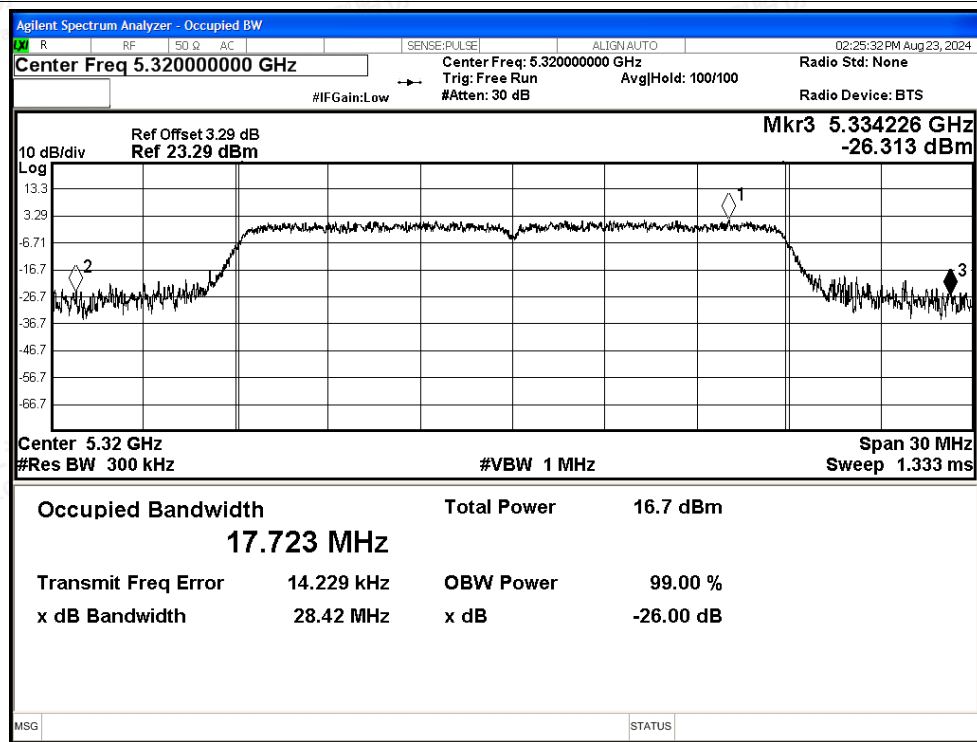
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-26dB Bandwidth NVNT n20 5300MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1



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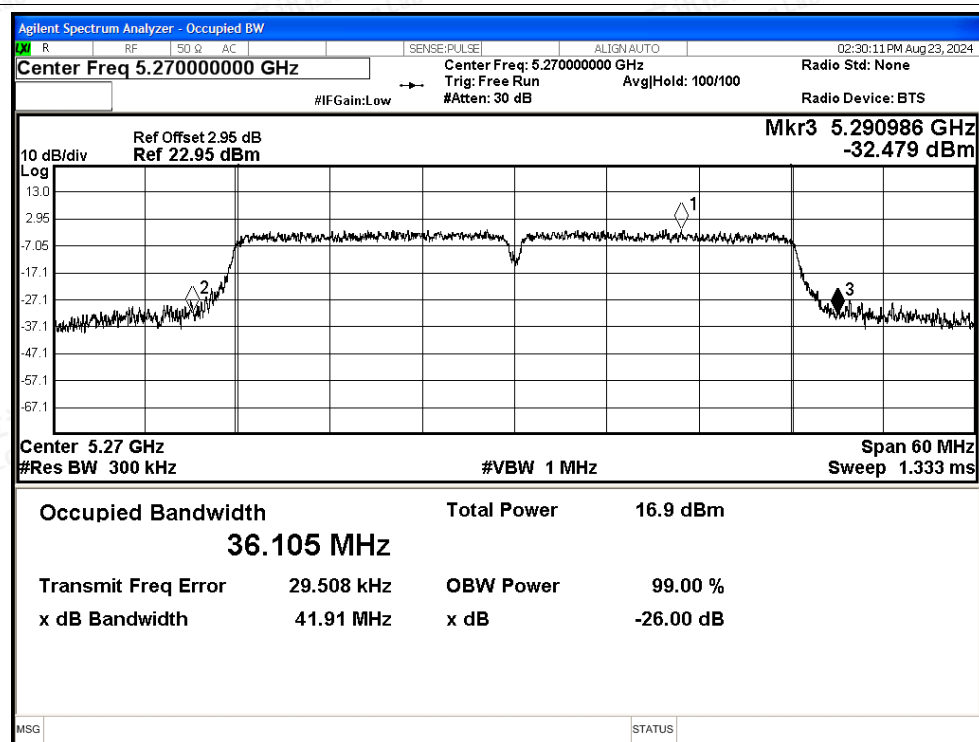
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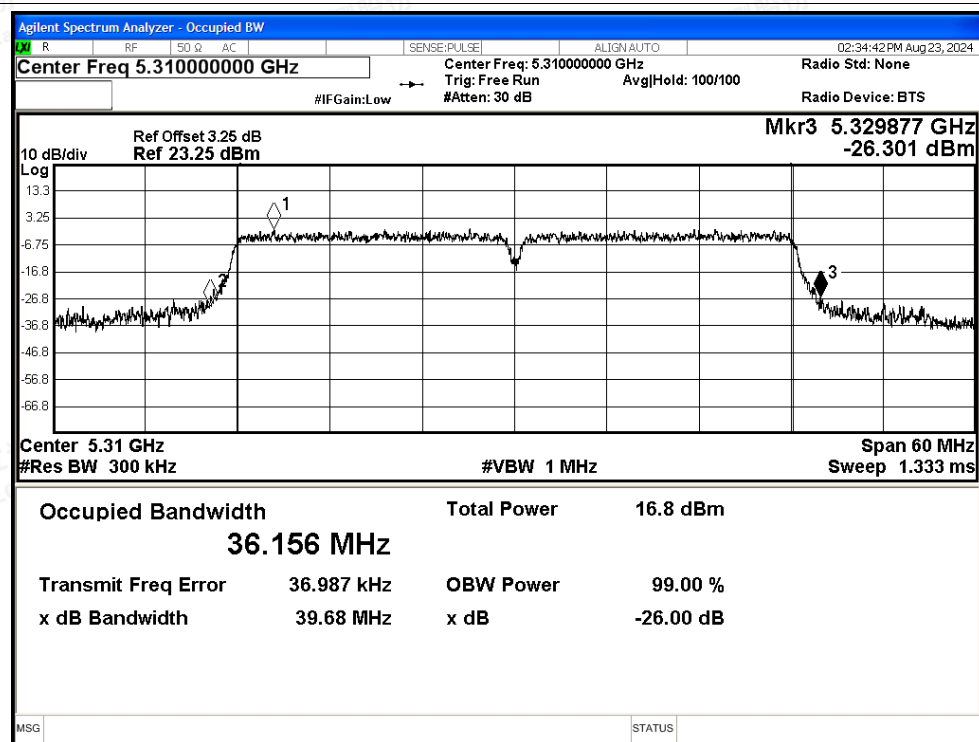
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-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5260	Ant1	12.65	0.51	13.16	24	Pass
NVNT	a	5300	Ant1	12.48	0.24	12.72	24	Pass
NVNT	a	5320	Ant1	12.48	0.24	12.72	24	Pass
NVNT	n20	5260	Ant1	11.3	0.28	11.58	24	Pass
NVNT	n20	5300	Ant1	11.26	0.28	11.54	24	Pass
NVNT	n20	5320	Ant1	11.59	0.28	11.87	24	Pass
NVNT	n40	5270	Ant1	10.9	0.44	11.34	24	Pass
NVNT	n40	5310	Ant1	10.92	0.45	11.37	24	Pass





D.3 Maximum Power Spectral Density Level

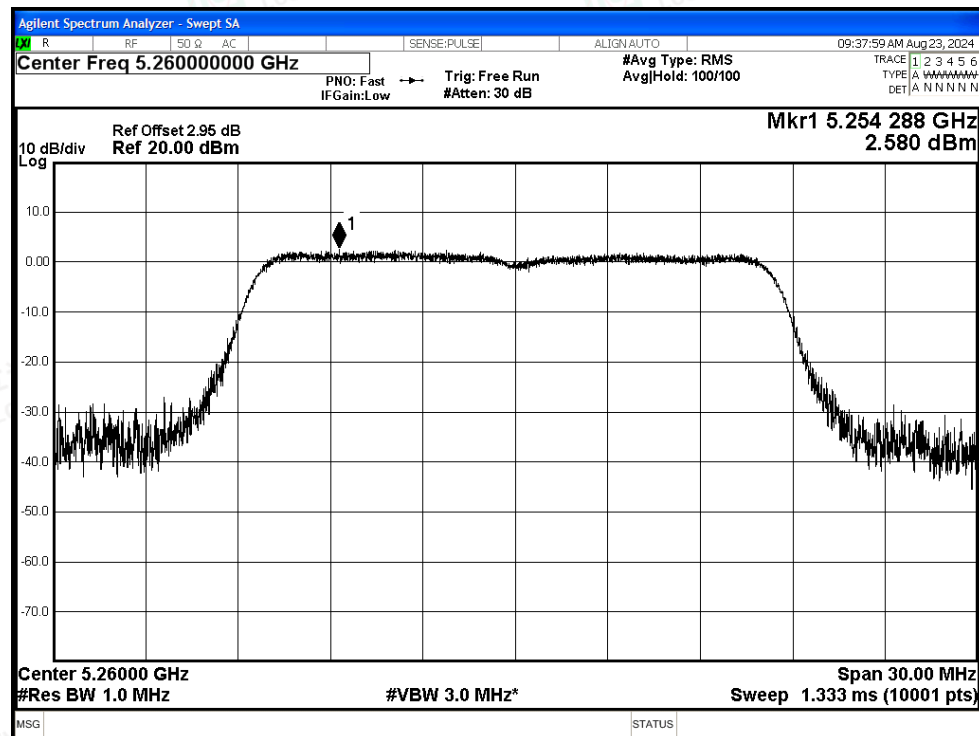
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5260	Ant1	2.58	0.51	3.09	11	Pass
NVNT	a	5300	Ant1	0.85	0.24	1.09	11	Pass
NVNT	a	5320	Ant1	1.85	0.24	2.09	11	Pass
NVNT	n20	5260	Ant1	0.27	0.28	0.55	11	Pass
NVNT	n20	5300	Ant1	-0.13	0.28	0.15	11	Pass
NVNT	n20	5320	Ant1	0.43	0.28	0.71	11	Pass
NVNT	n40	5270	Ant1	-2.6	0.44	-2.16	11	Pass
NVNT	n40	5310	Ant1	-3.03	0.45	-2.58	11	Pass



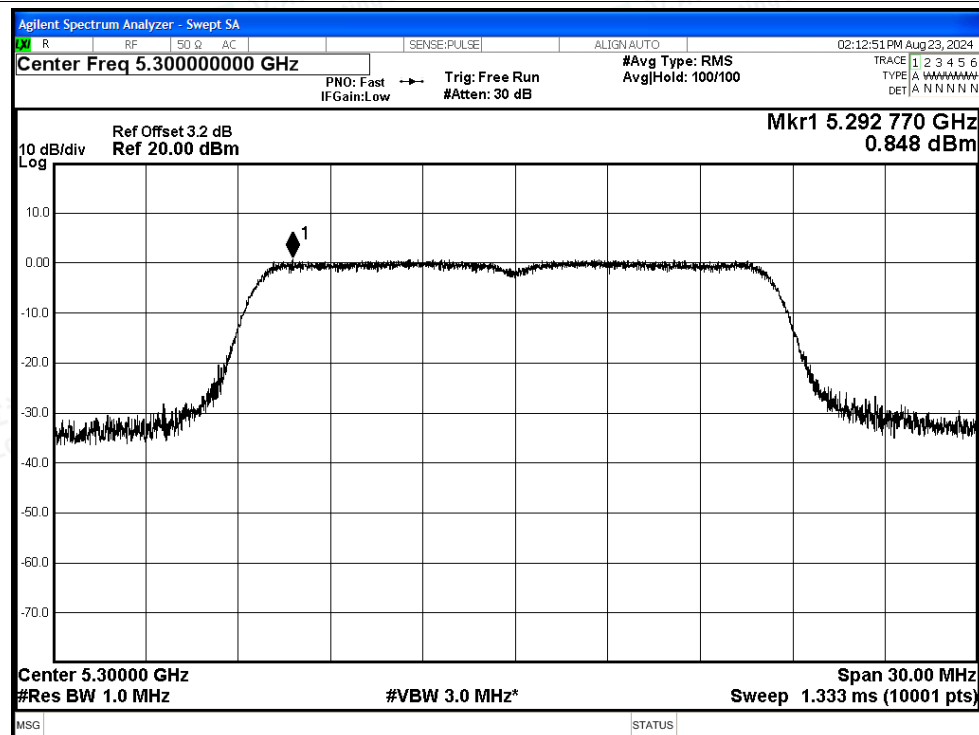


Test Graphs

PSD NVNT a 5260MHz Ant1

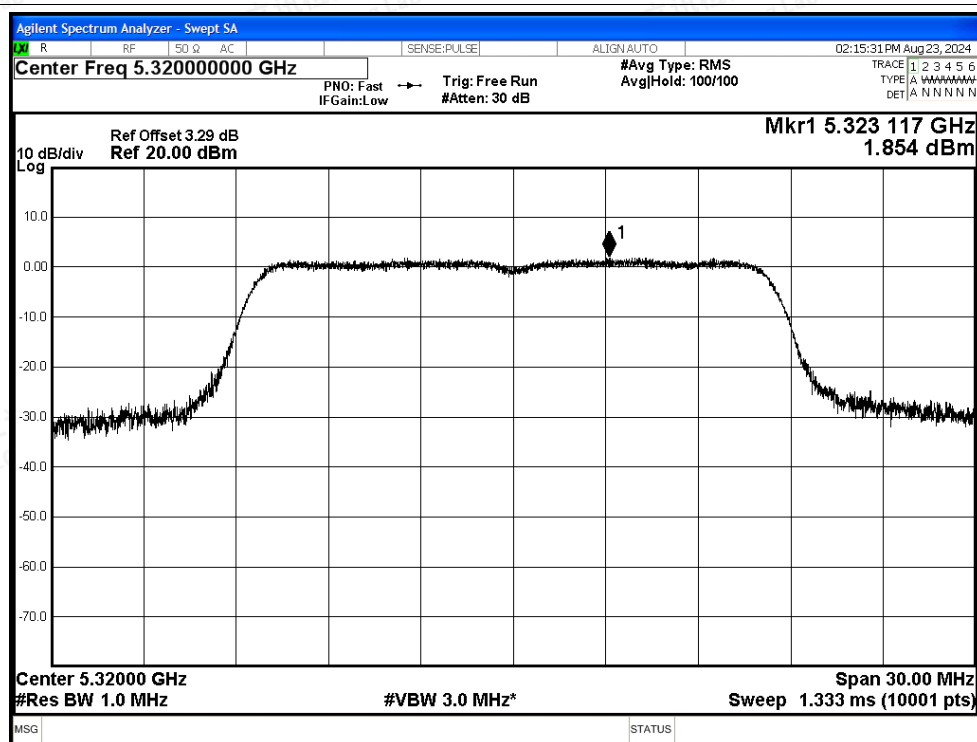


PSD NVNT a 5300MHz Ant1

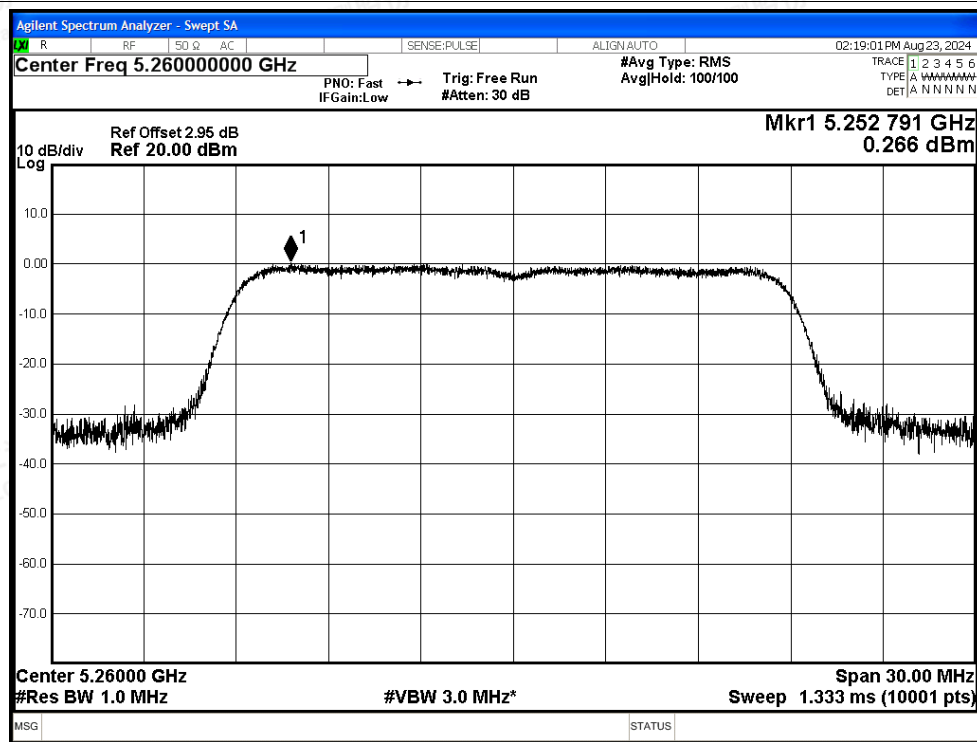




PSD NVNT a 5320MHz Ant1



PSD NVNT n20 5260MHz Ant1

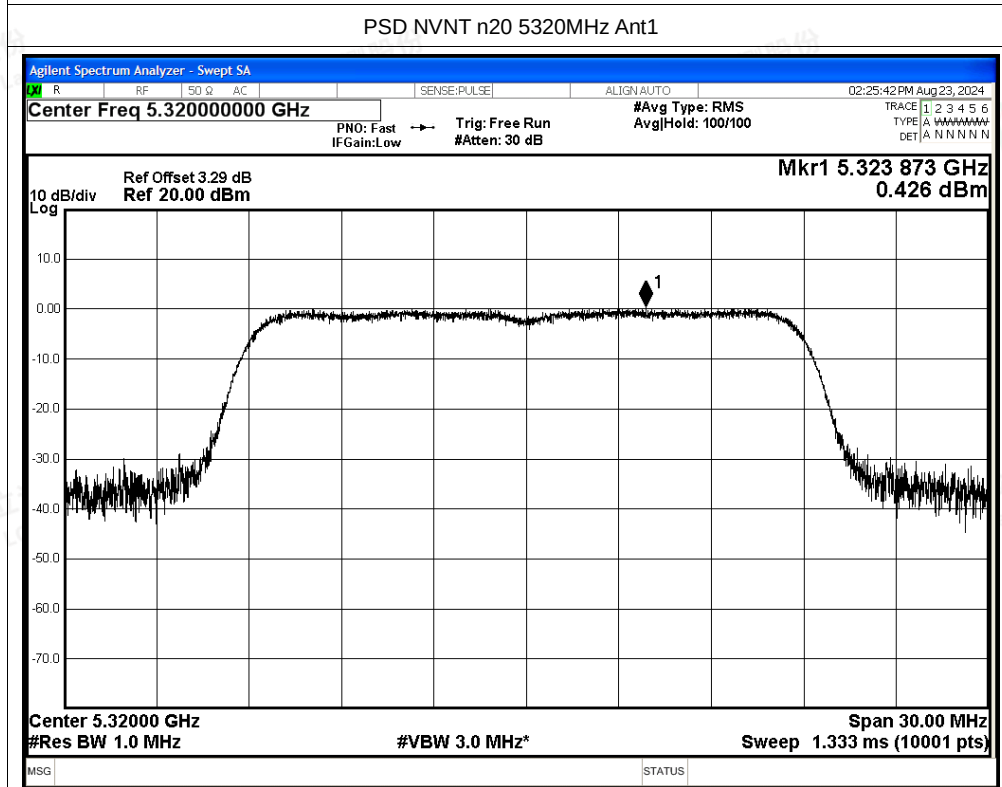
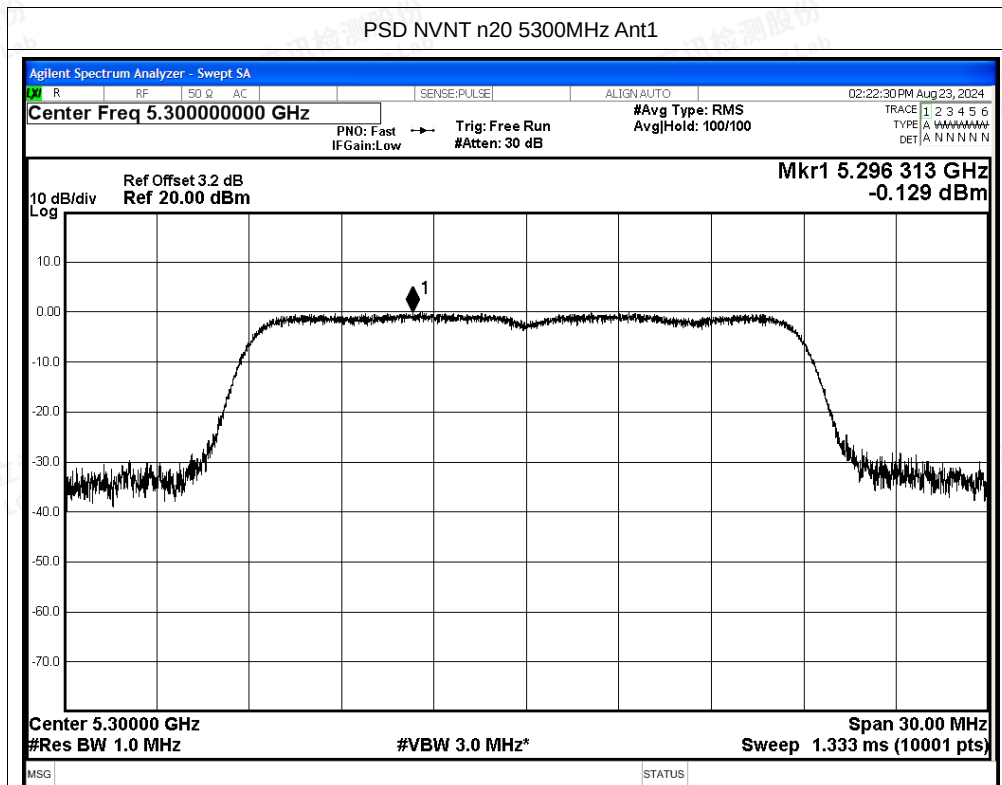


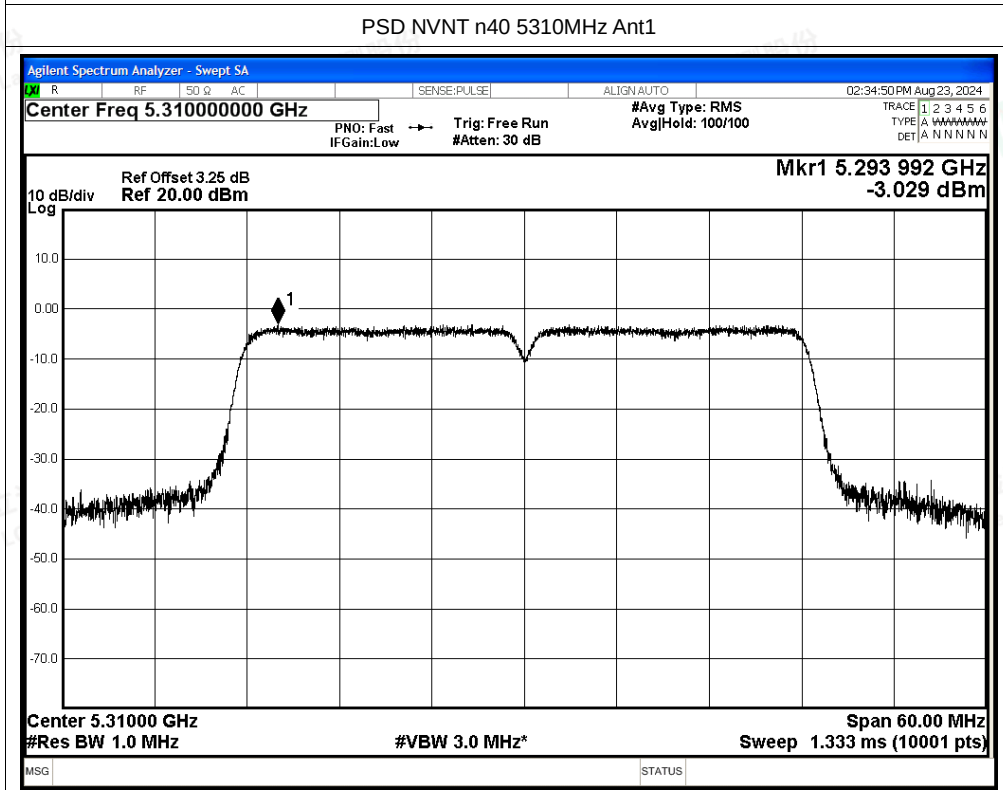
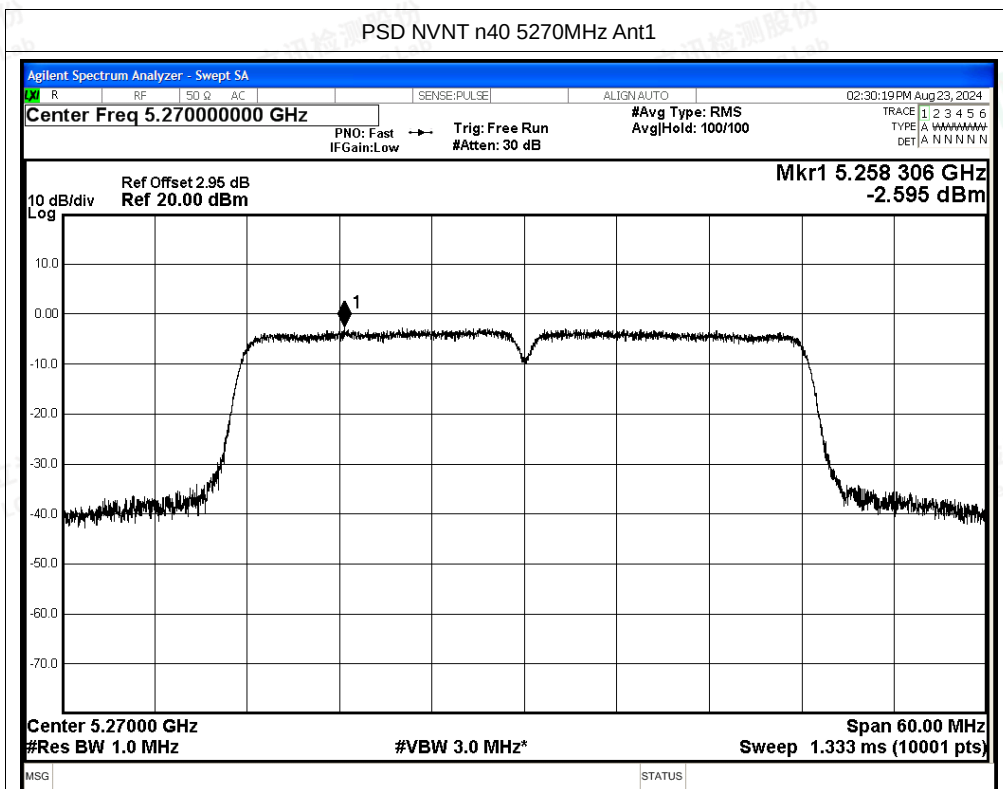
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D.4 Restrict Band

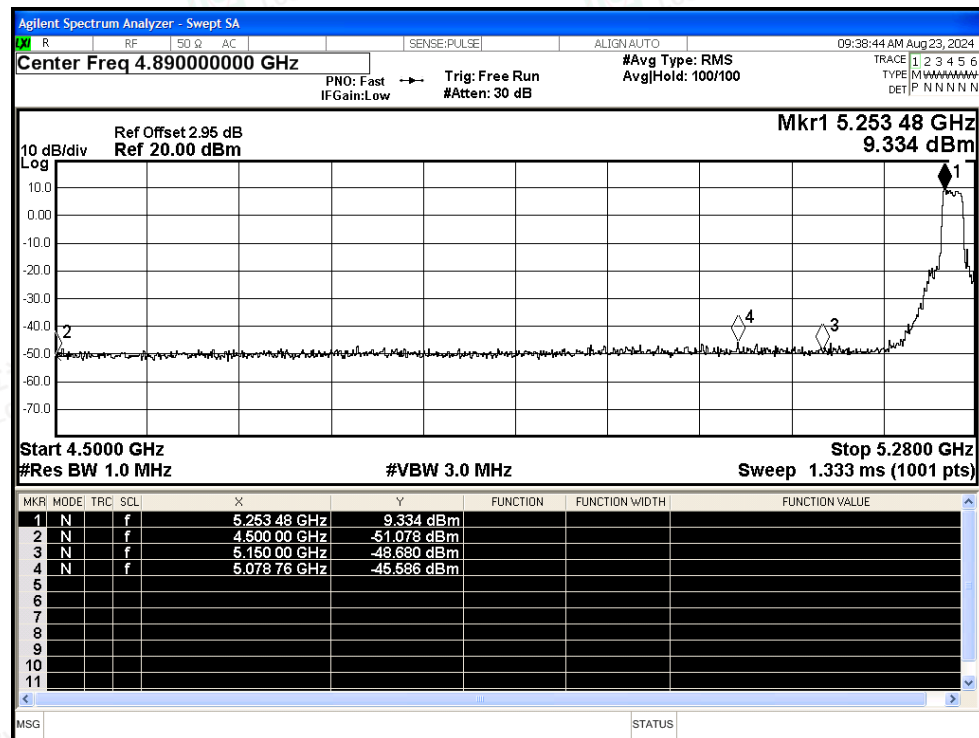
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-51.08	4.05	-	48.20	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-59.15	4.05	0.51	40.64	Average	54	Pass
NVNT	a	5260	Ant1	5078.76	-45.59	4.05	-	53.69	Peak	68.2	Pass
NVNT	a	5260	Ant1	5095.92	-56.61	4.05	0.51	43.18	Average	54	Pass
NVNT	a	5260	Ant1	5150	-48.68	4.05	-	50.60	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-57.43	4.05	0.51	42.36	Average	54	Pass
NVNT	a	5320	Ant1	5350	-44.5	4.05	-	54.78	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-54.79	4.05	0.24	44.73	Average	54	Pass
NVNT	a	5320	Ant1	5350.6	-39.12	4.05	-	60.16	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350.4	-54.69	4.05	0.24	44.83	Average	54	Pass
NVNT	a	5320	Ant1	5460	-48.34	4.05	-	50.94	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-57.98	4.05	0.24	41.54	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-50.21	4.05	-	49.07	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-59.22	4.05	0.28	40.34	Average	54	Pass
NVNT	n20	5260	Ant1	4773.78	-45.49	4.05	-	53.79	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4787.82	-55.53	4.05	0.28	44.03	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-47.29	4.05	-	51.99	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-57.09	4.05	0.28	42.47	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-36.24	4.05	-	63.04	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-49.63	4.05	0.28	49.93	Average	54	Pass
NVNT	n20	5320	Ant1	5351.8	-32.74	4.05	-	66.54	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350.2	-48.2	4.05	0.28	51.36	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-50.23	4.05	-	49.05	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-58.11	4.05	0.28	41.45	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-51.74	4.05	-	47.54	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-59.17	4.05	0.44	40.55	Average	54	Pass
NVNT	n40	5270	Ant1	4807.8	-44.23	4.05	-	55.05	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4806.99	-52.85	4.05	0.44	46.87	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-49.03	4.05	-	50.25	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-57.44	4.05	0.44	42.28	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-33.31	4.05	-	65.97	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-48.12	4.05	0.45	51.61	Average	54	Pass
NVNT	n40	5310	Ant1	5351	-47.83	4.05	0.45	51.90	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-50.45	4.05	-	48.83	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-57.84	4.05	0.45	41.89	Average	54	Pass



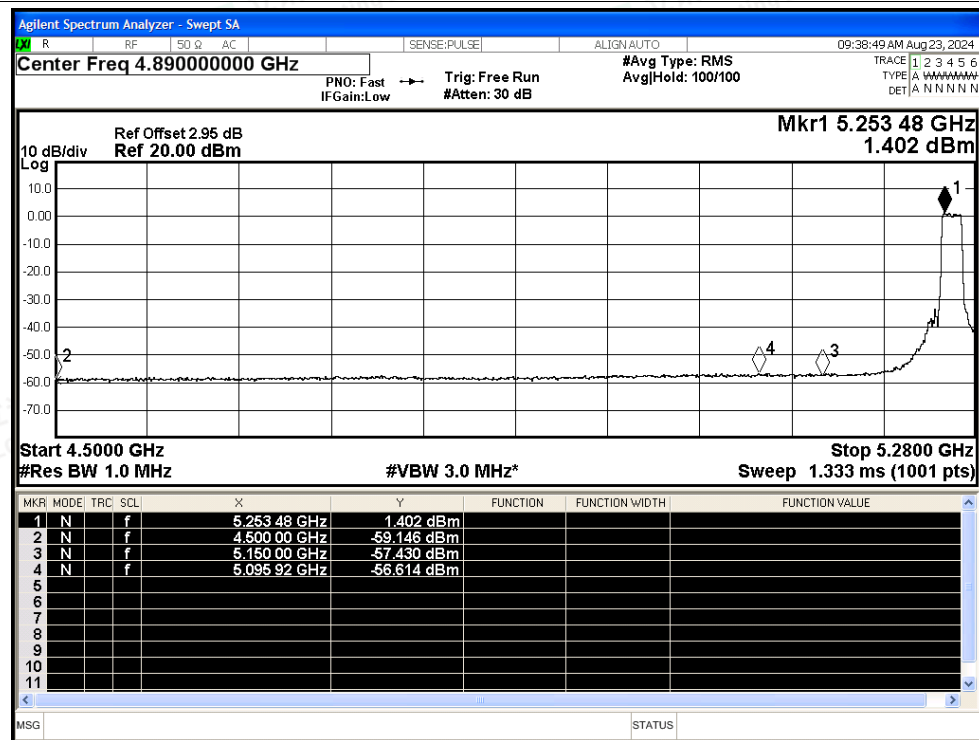


Test Graphs

Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average



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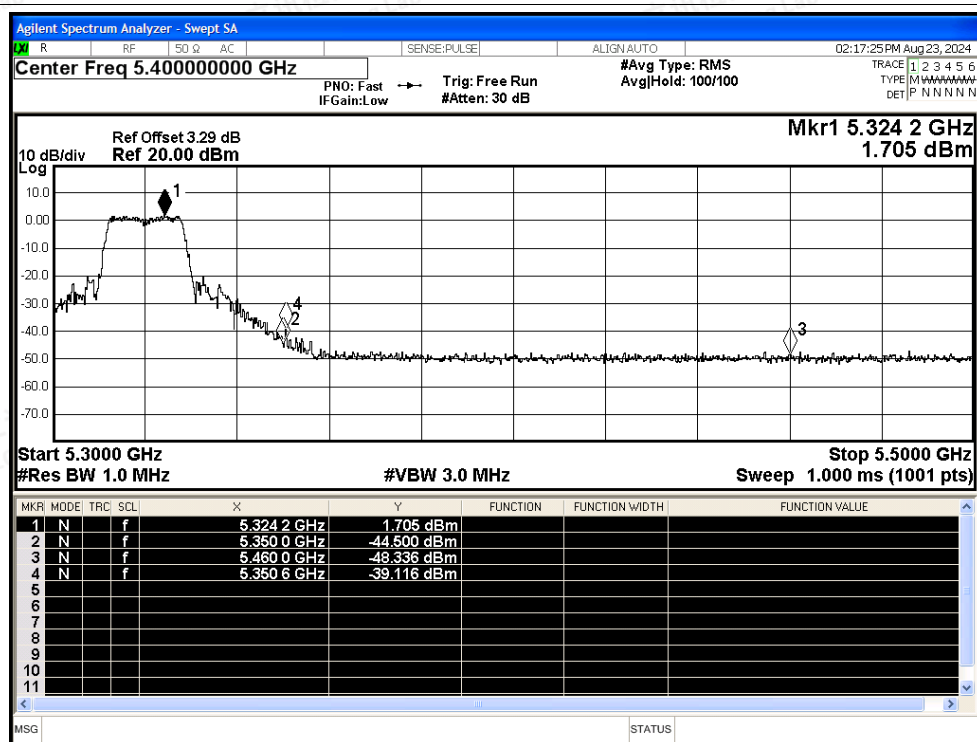
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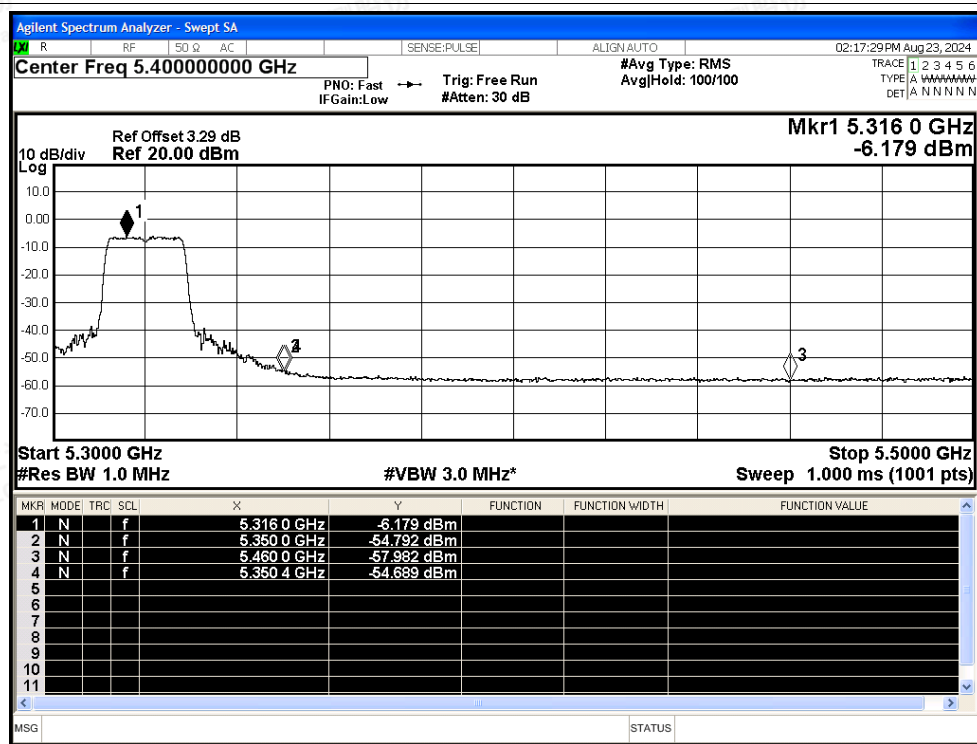
Scan code to check authenticity



Restrict Band NVNT a 5320MHz Ant1 Peak



Restrict Band NVNT a 5320MHz Ant1 Average



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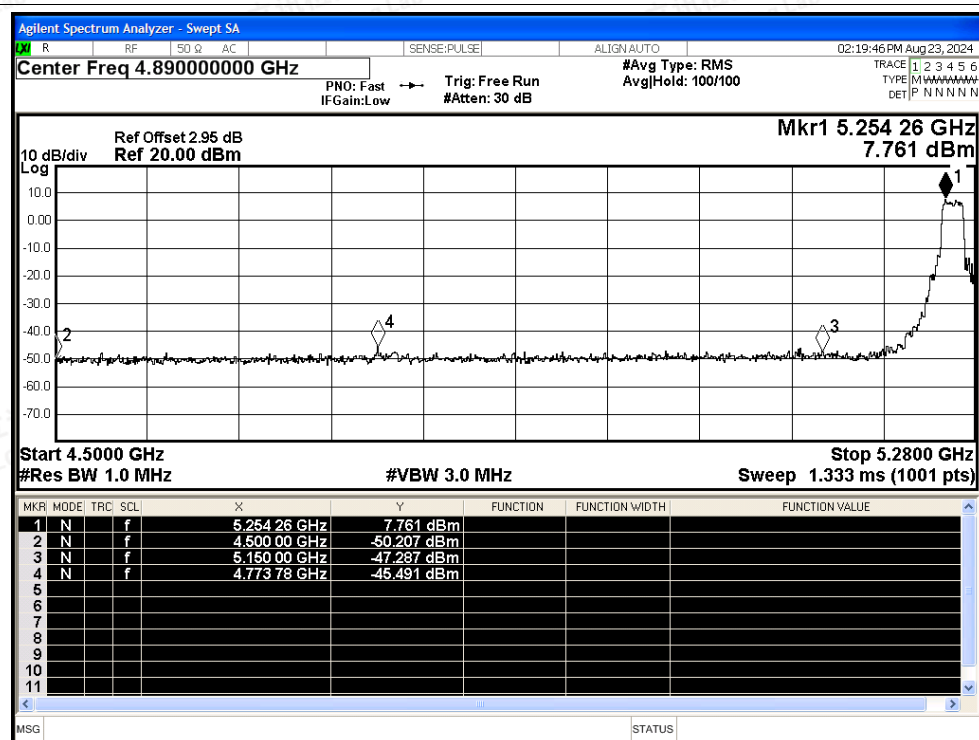
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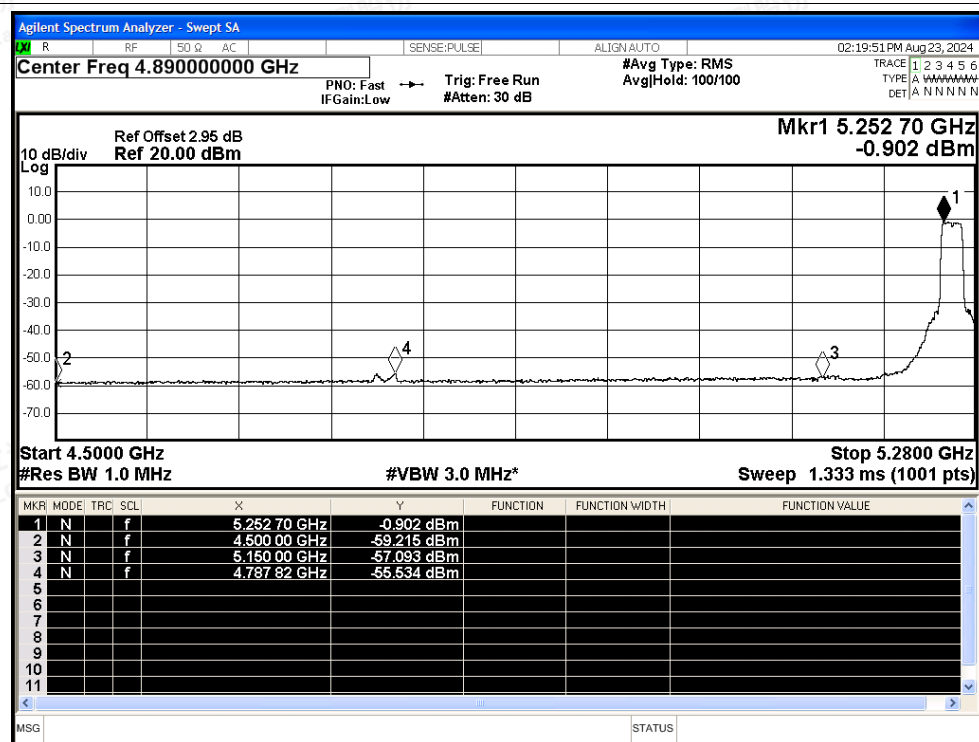
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Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average



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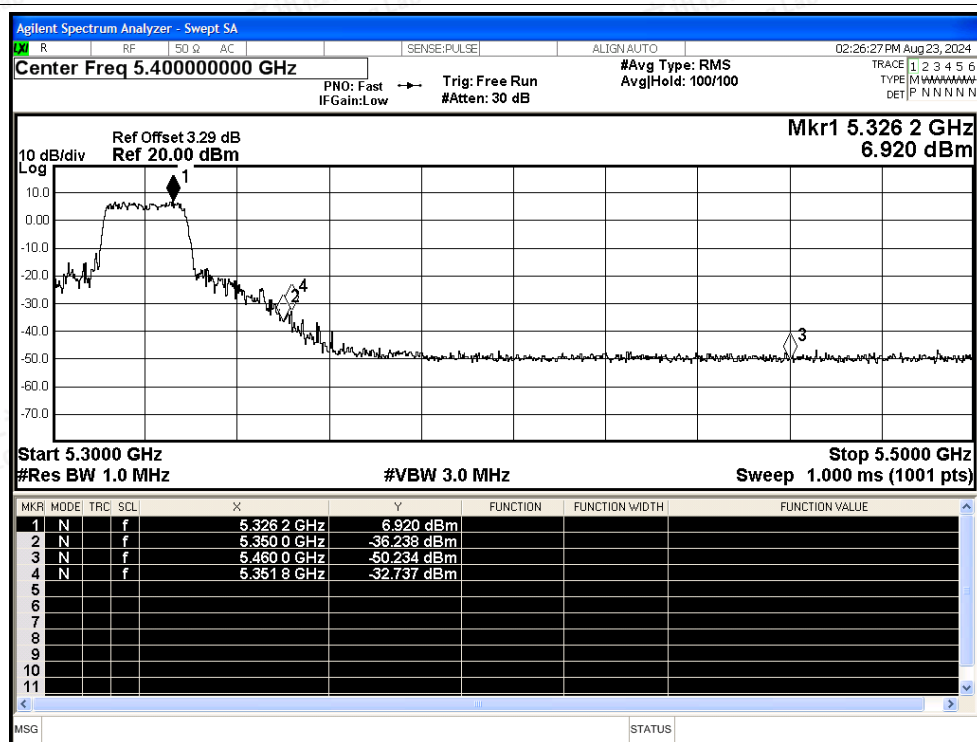
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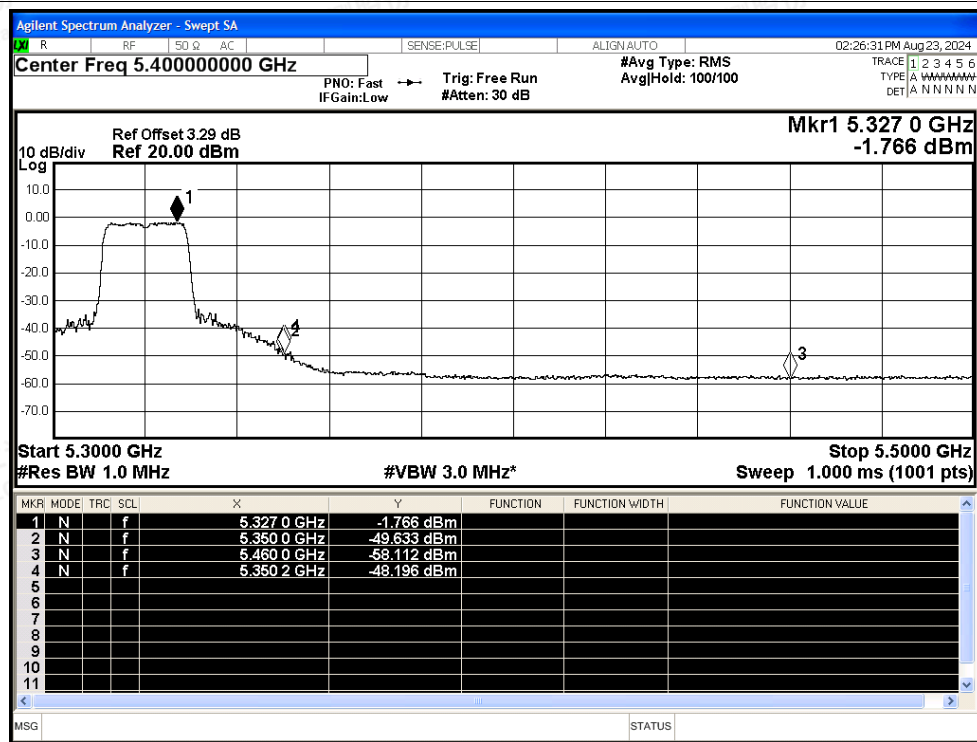
Scan code to check authenticity



Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average



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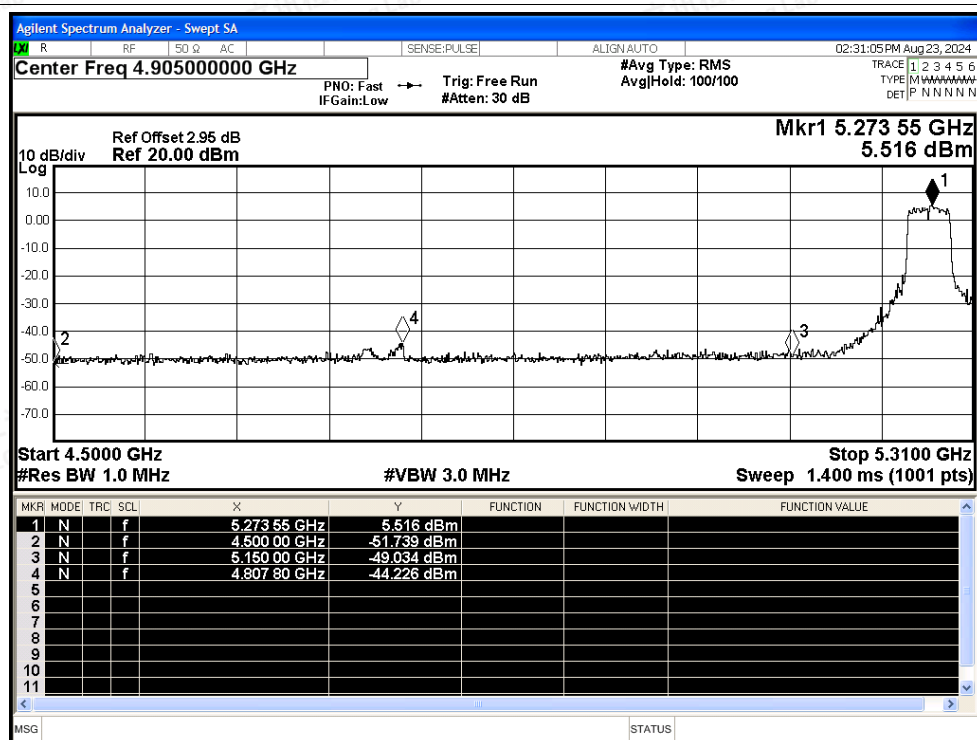
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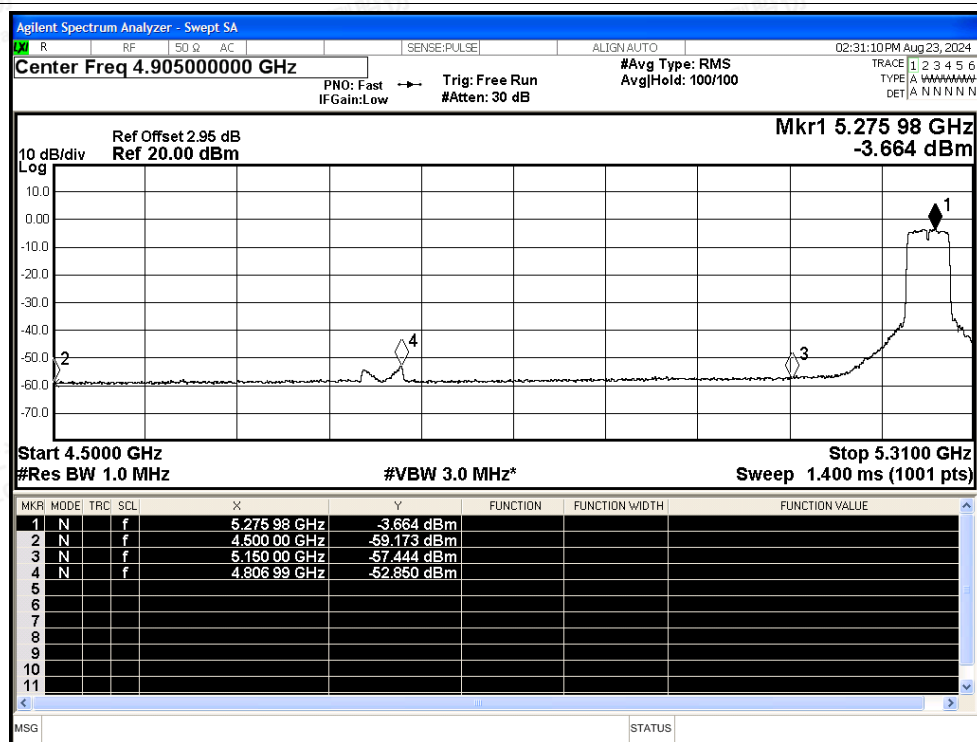
Scan code to check authenticity



Restrict Band NVNT n40 5270MHz Ant1 Peak



Restrict Band NVNT n40 5270MHz Ant1 Average



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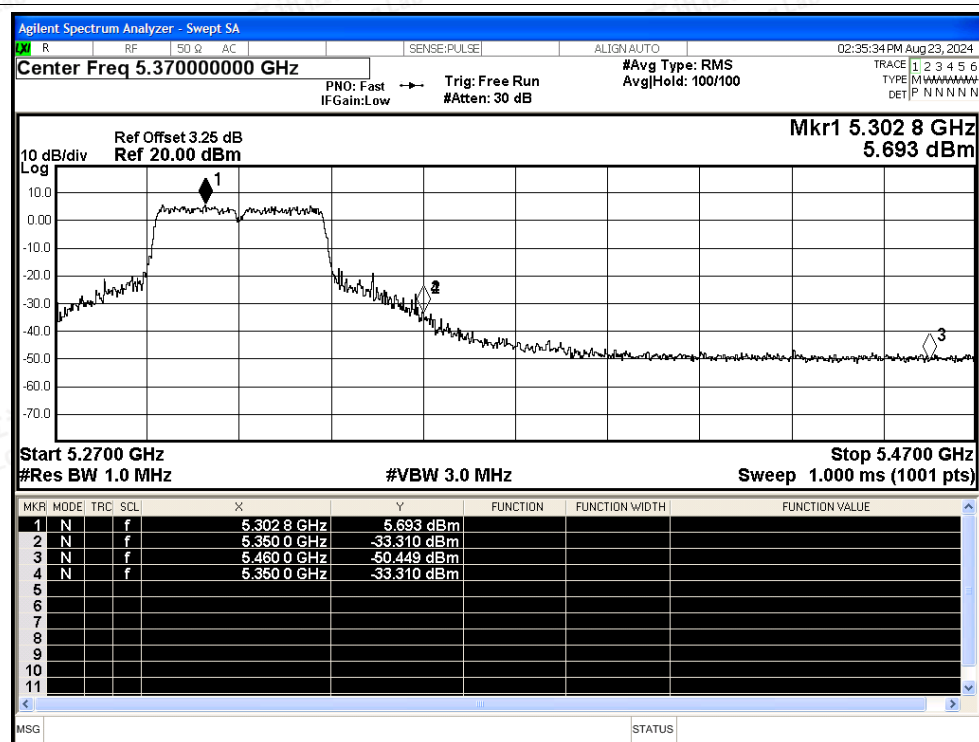
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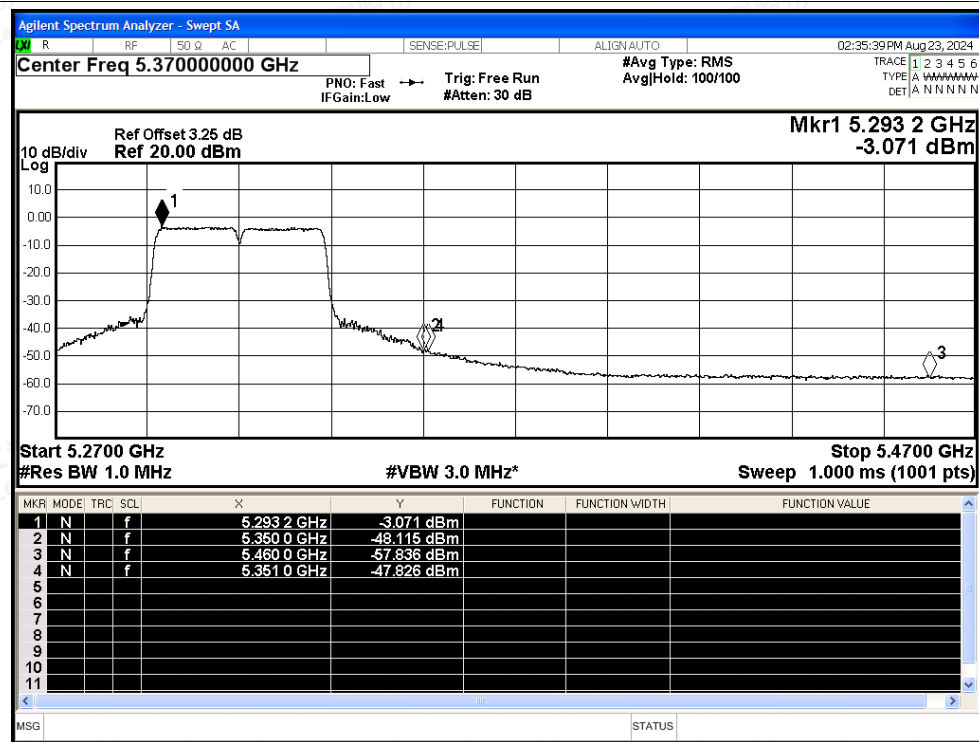
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Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



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D.5 Frequency Stability

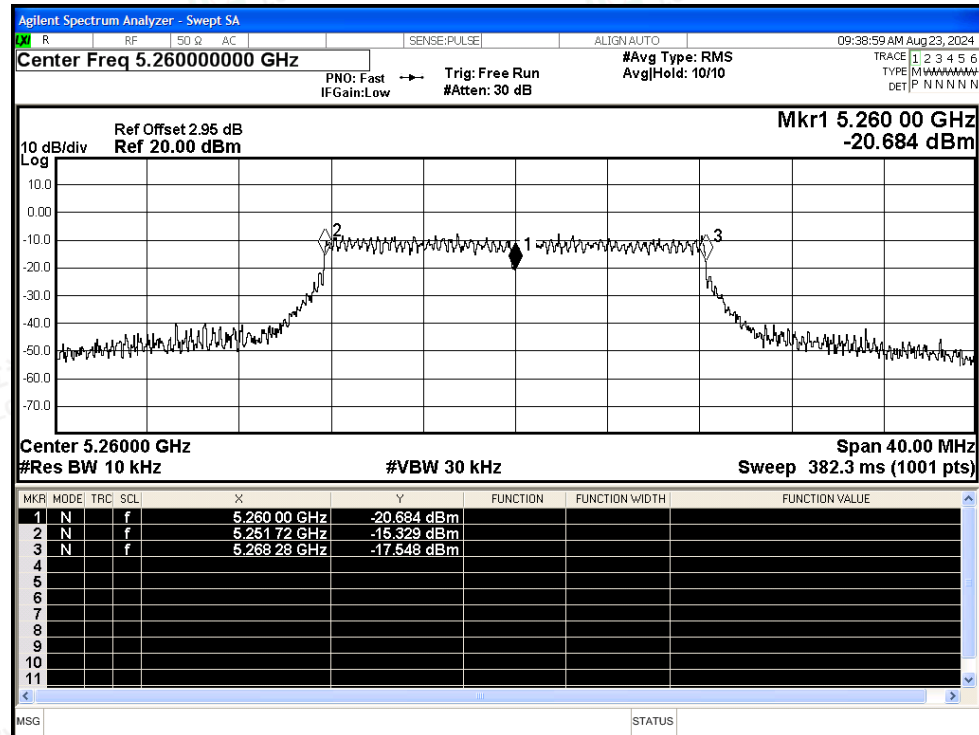
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant1	5260	0	0	25	Pass
NVNT	a	5300	Ant1	5300	0	0	25	Pass
NVNT	a	5320	Ant1	5320	0	0	25	Pass
NVNT	n20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
NVNT	n20	5300	Ant1	5299.98	-20000	-3.77	25	Pass
NVNT	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
NVNT	n40	5270	Ant1	5270	0	0	25	Pass
NVNT	n40	5310	Ant1	5310	0	0	25	Pass



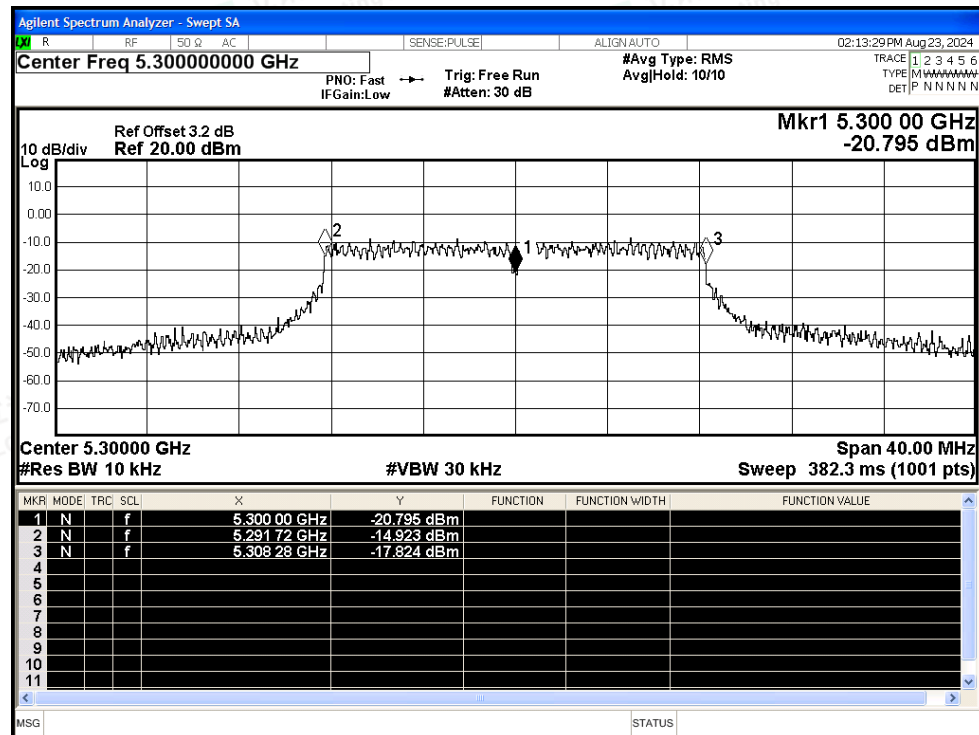


Test Graphs

Freq. Stability NVNT a 5260MHz Ant1

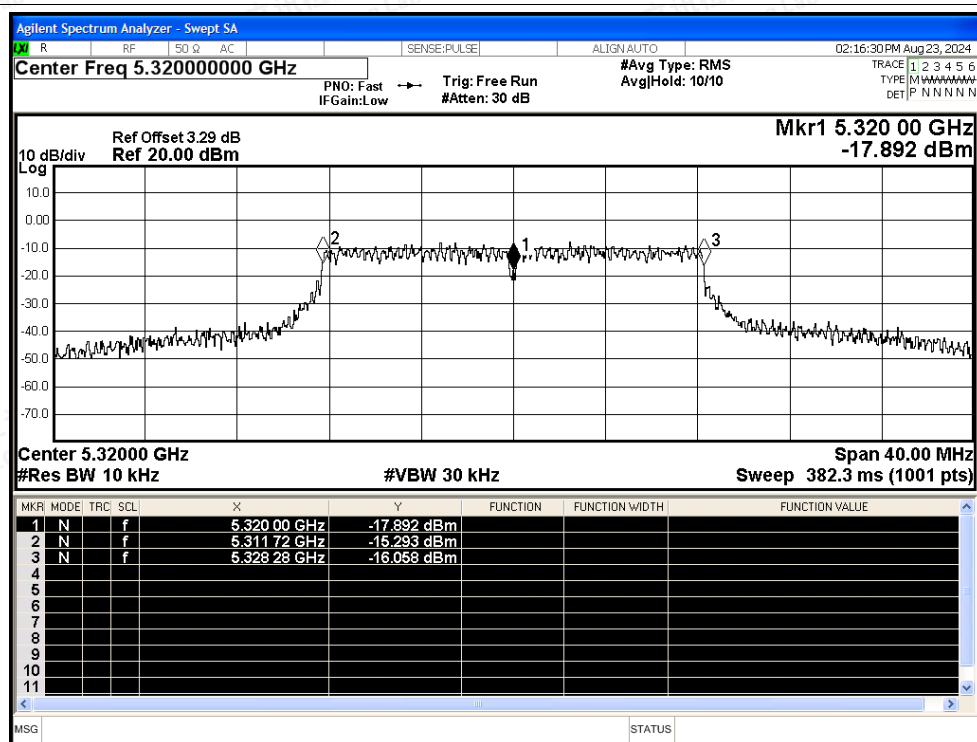


Freq. Stability NVNT a 5300MHz Ant1

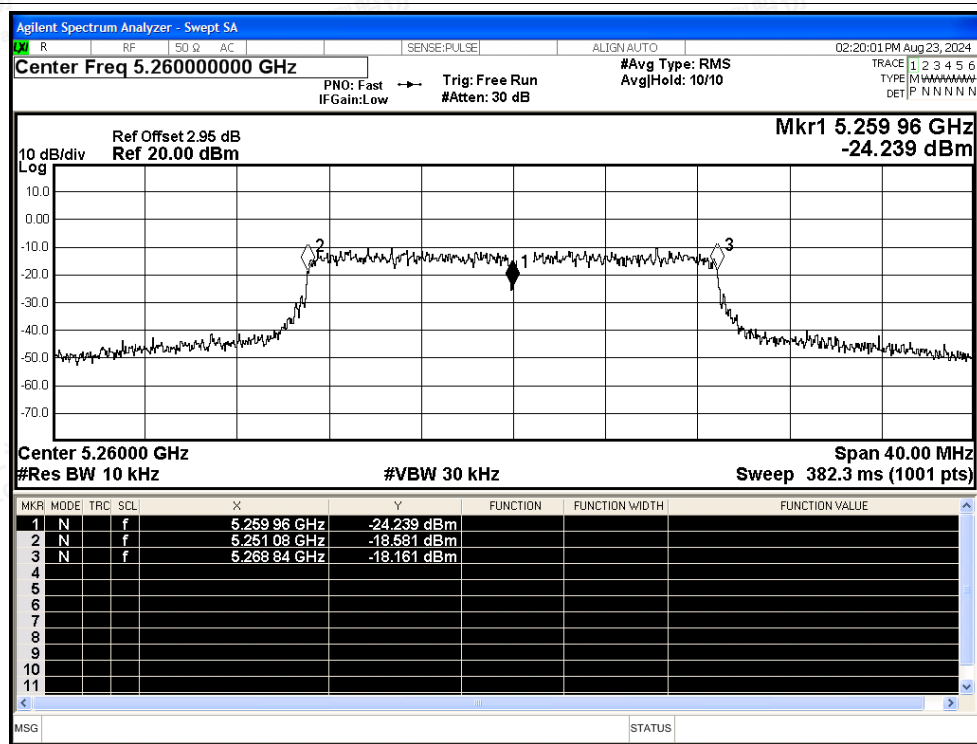




Freq. Stability NVNT a 5320MHz Ant1



Freq. Stability NVNT n20 5260MHz Ant1



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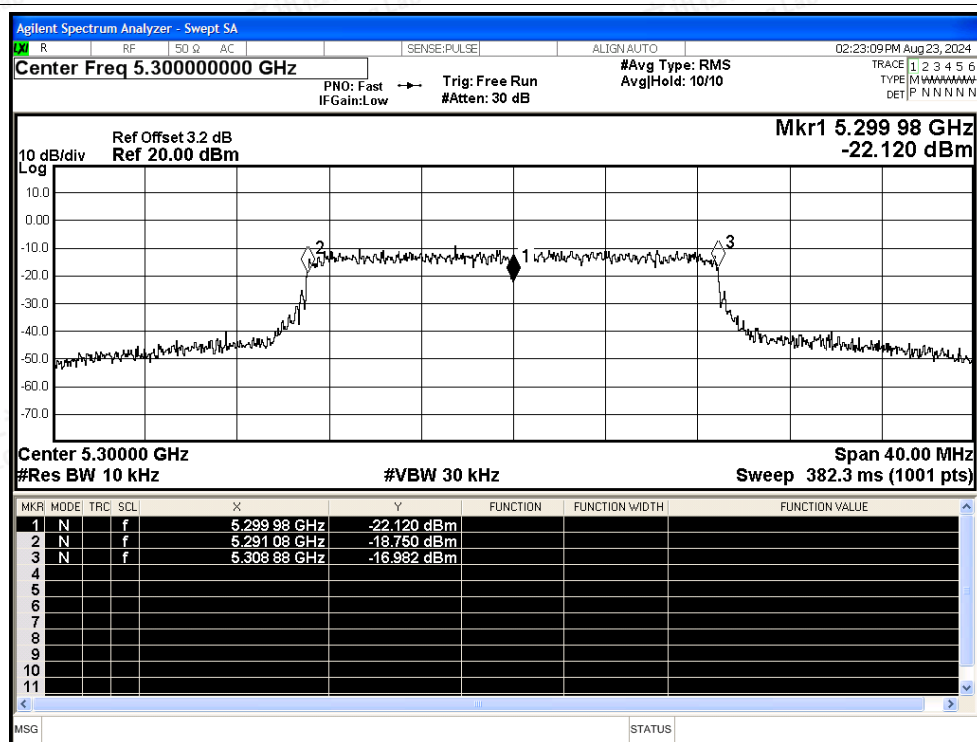
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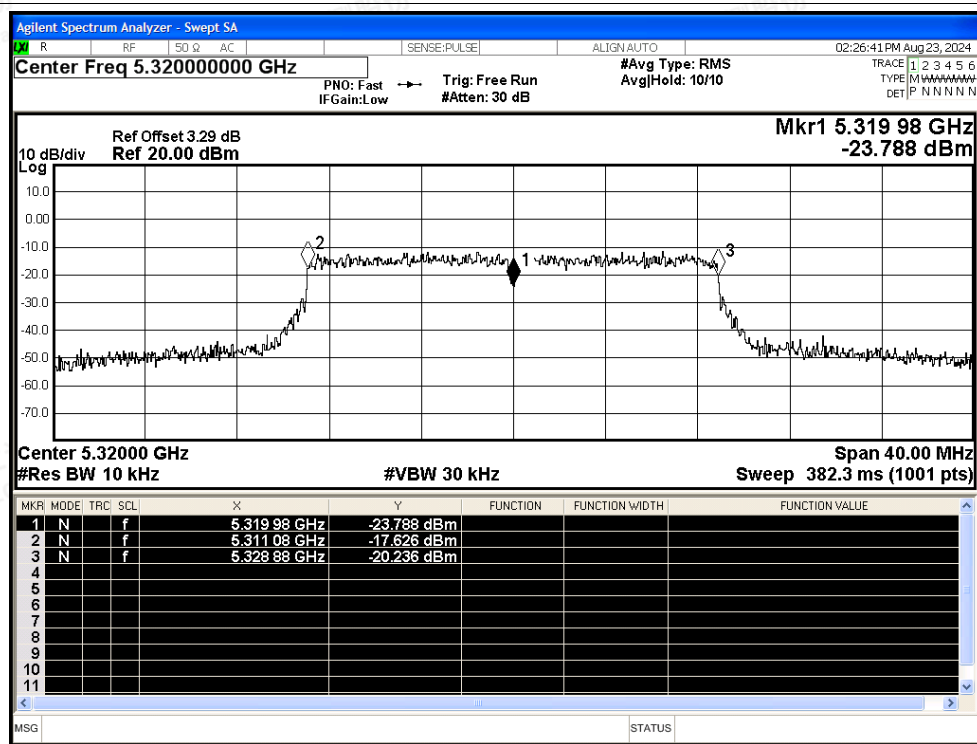
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Freq. Stability NVNT n20 5300MHz Ant1



Freq. Stability NVNT n20 5320MHz Ant1



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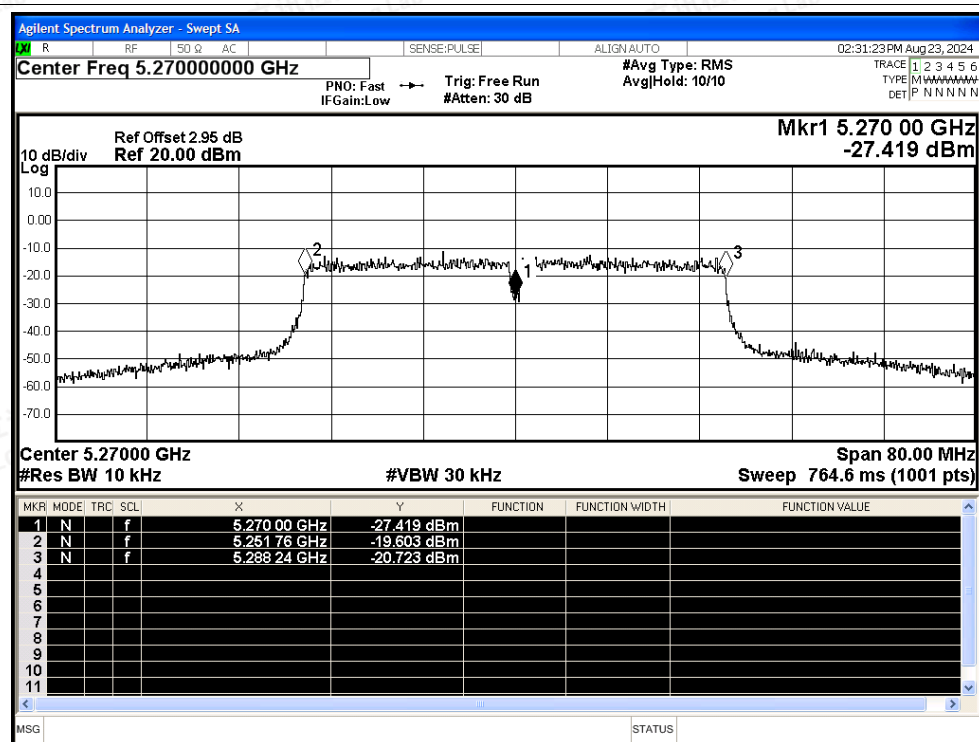
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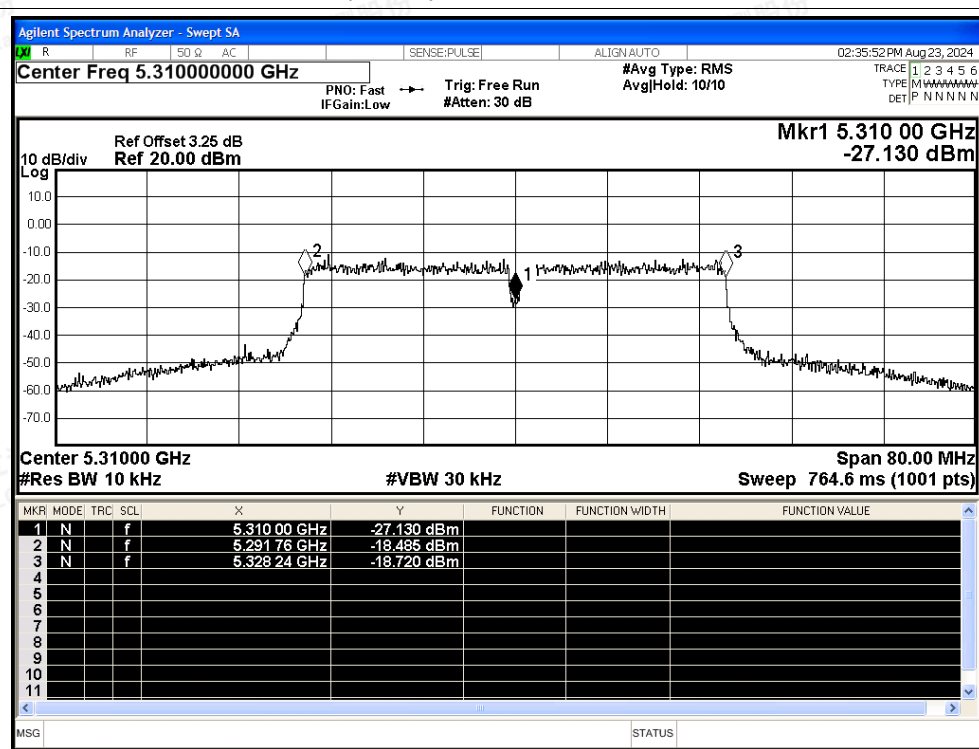
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Freq. Stability NVNT n40 5270MHz Ant1



Freq. Stability NVNT n40 5310MHz Ant1



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D.6 Duty Cycle

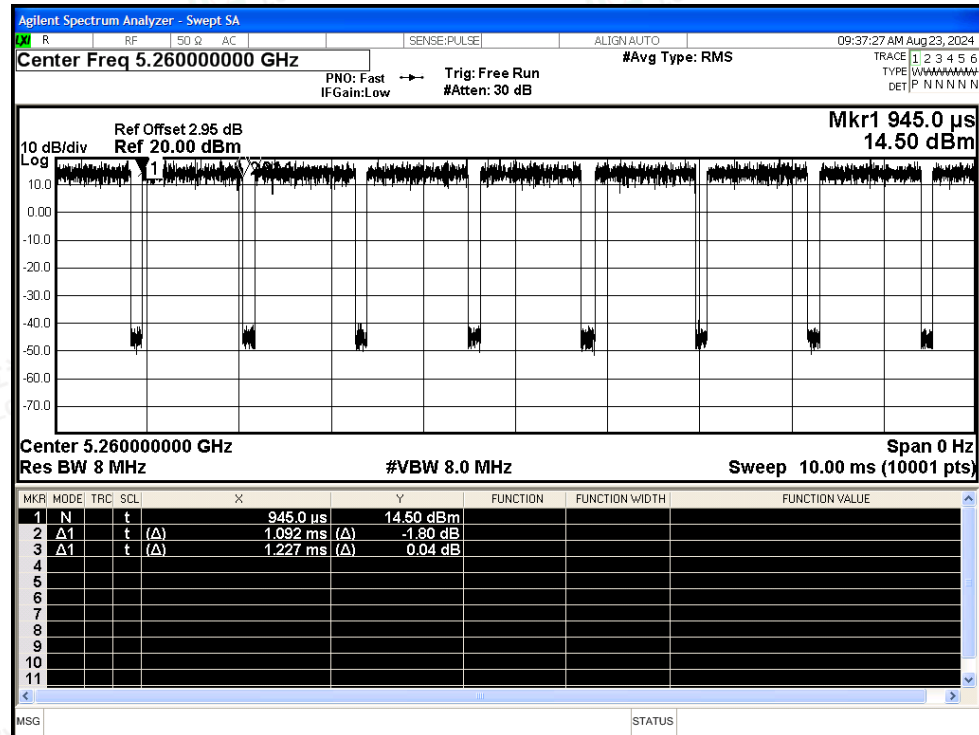
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	89	0.51	0.92
NVNT	a	5300	Ant1	94.65	0.24	0.91
NVNT	a	5320	Ant1	94.56	0.24	0.91
NVNT	n20	5260	Ant1	93.77	0.28	1.07
NVNT	n20	5300	Ant1	93.77	0.28	1.07
NVNT	n20	5320	Ant1	93.67	0.28	1.07
NVNT	n40	5270	Ant1	90.3	0.44	1.73
NVNT	n40	5310	Ant1	90.14	0.45	1.74



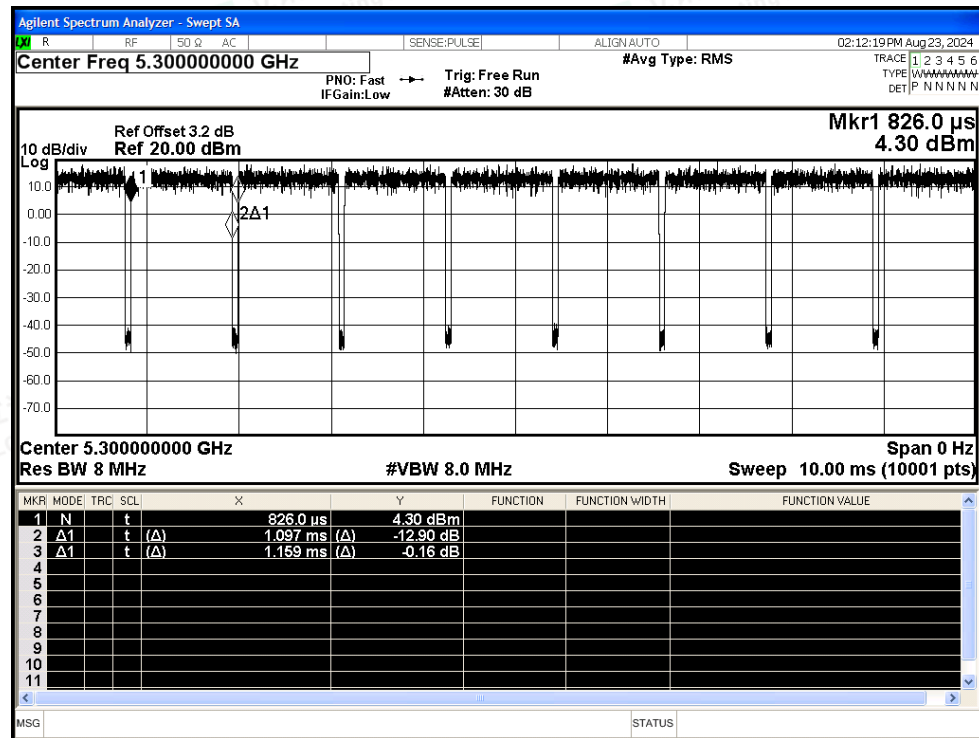


Test Graphs

Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5300MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

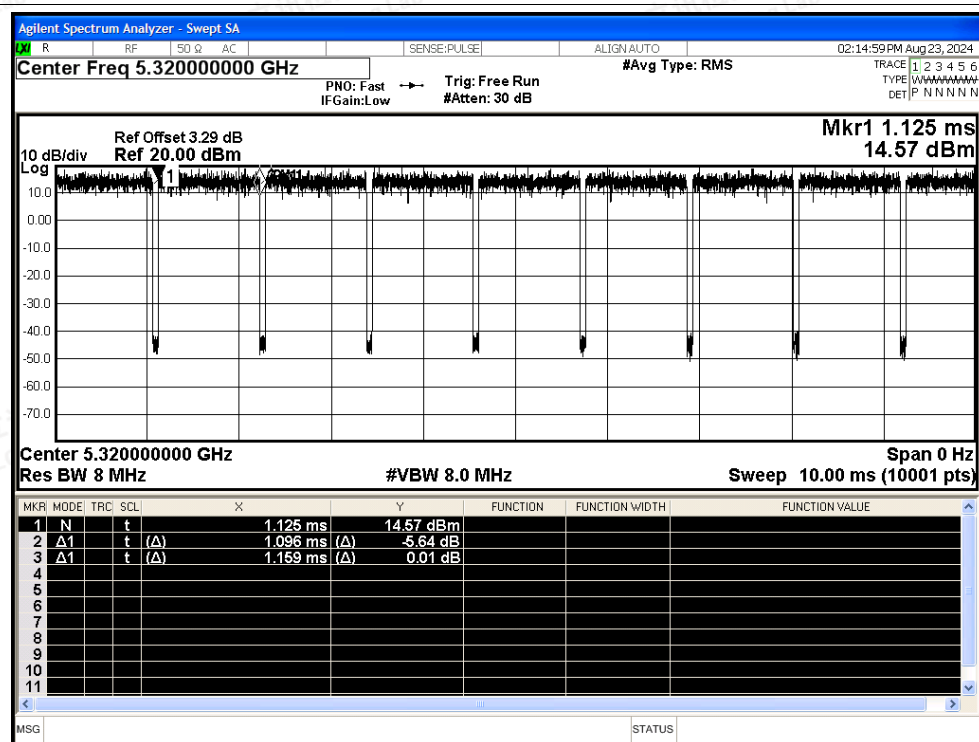
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

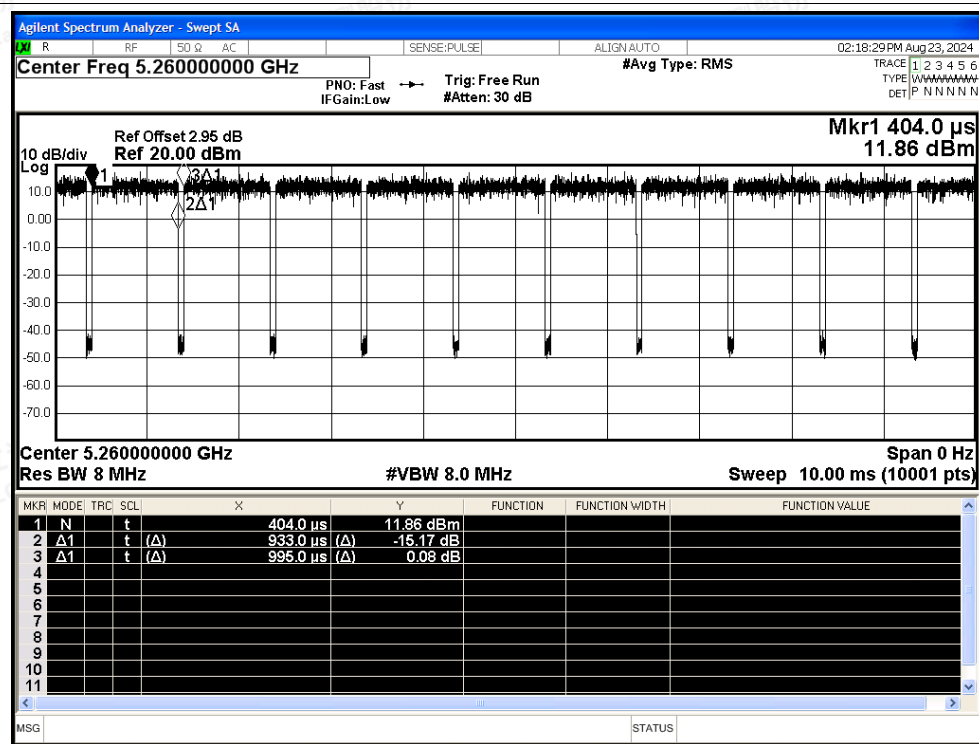
Scan code to check authenticity



Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

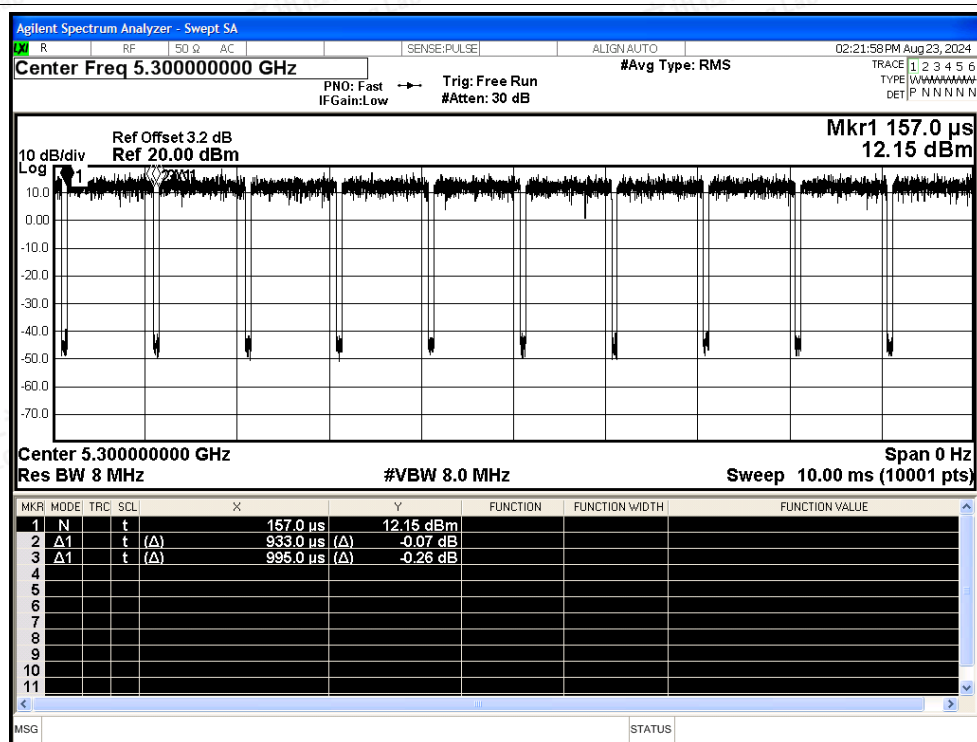
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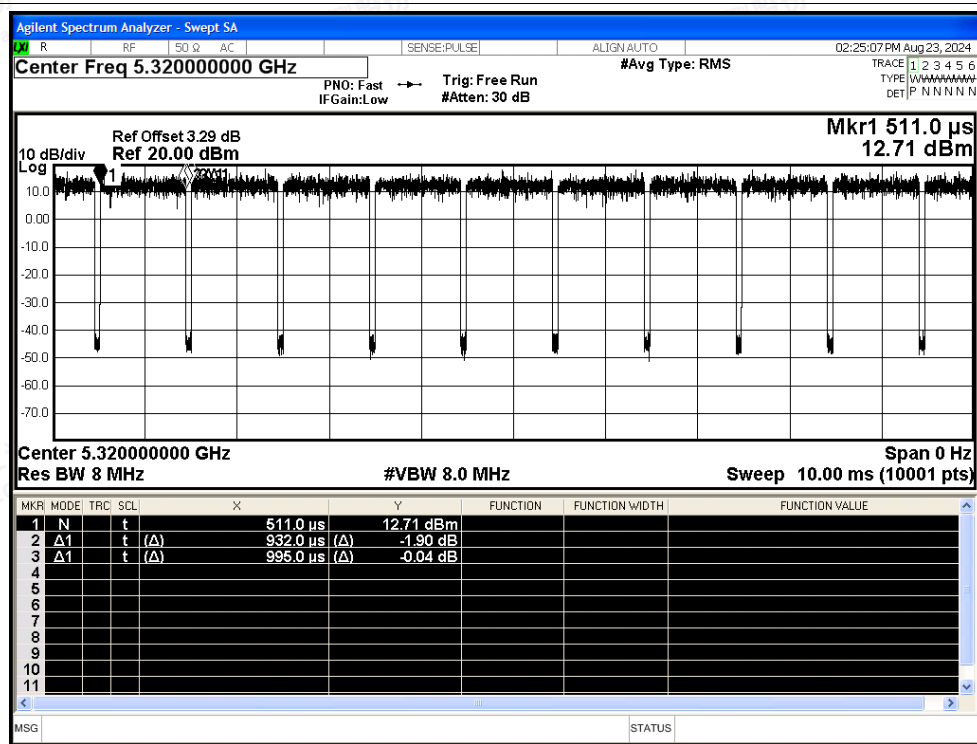
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Duty Cycle NVNT n20 5300MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1



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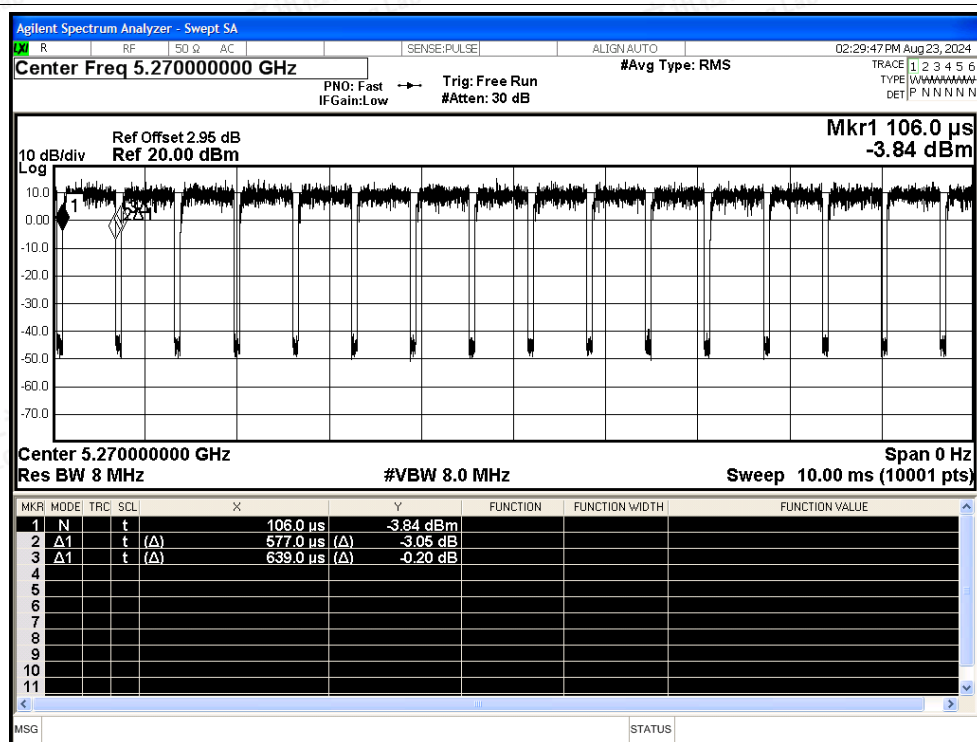
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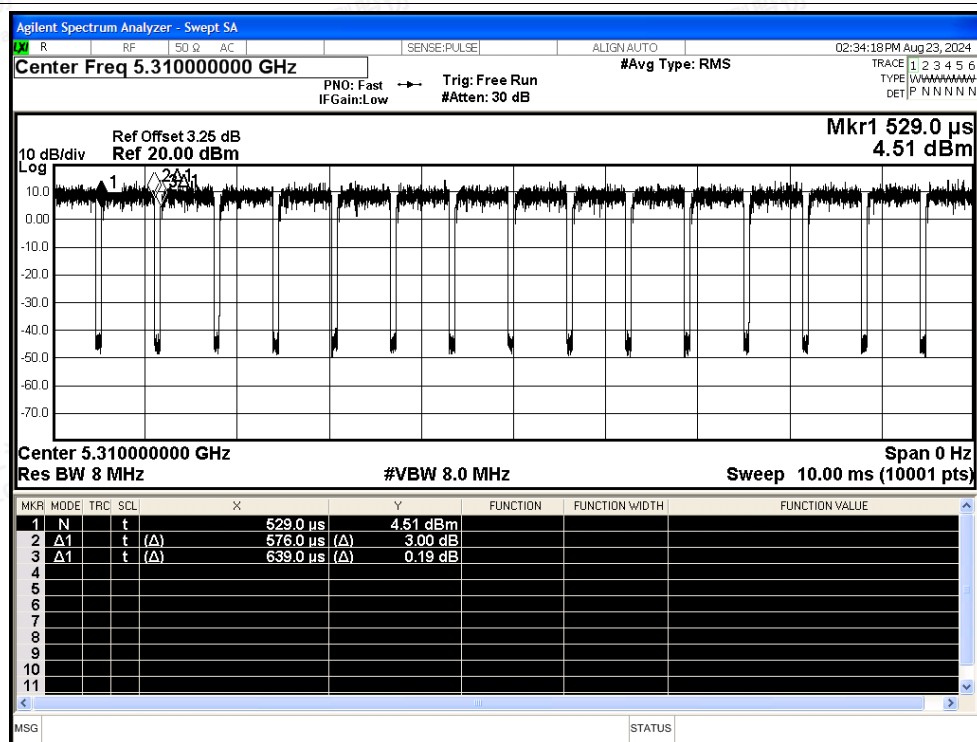
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Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



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