



Appendix E

RF Test Data for 5.3GWIFI (Conducted Measurement)

Product Name: GNSS RECEIVER

Test Model: G7Q

Environmental Conditions

Temperature:	24.5° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun



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E.1 -26dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)
NVNT	a	5260	Ant1	27.54
NVNT	a	5280	Ant1	28.15
NVNT	a	5320	Ant1	28.18
NVNT	n20	5260	Ant1	29.26
NVNT	n20	5280	Ant1	28.17
NVNT	n20	5320	Ant1	29.33
NVNT	n40	5270	Ant1	55.58
NVNT	n40	5310	Ant1	55.32

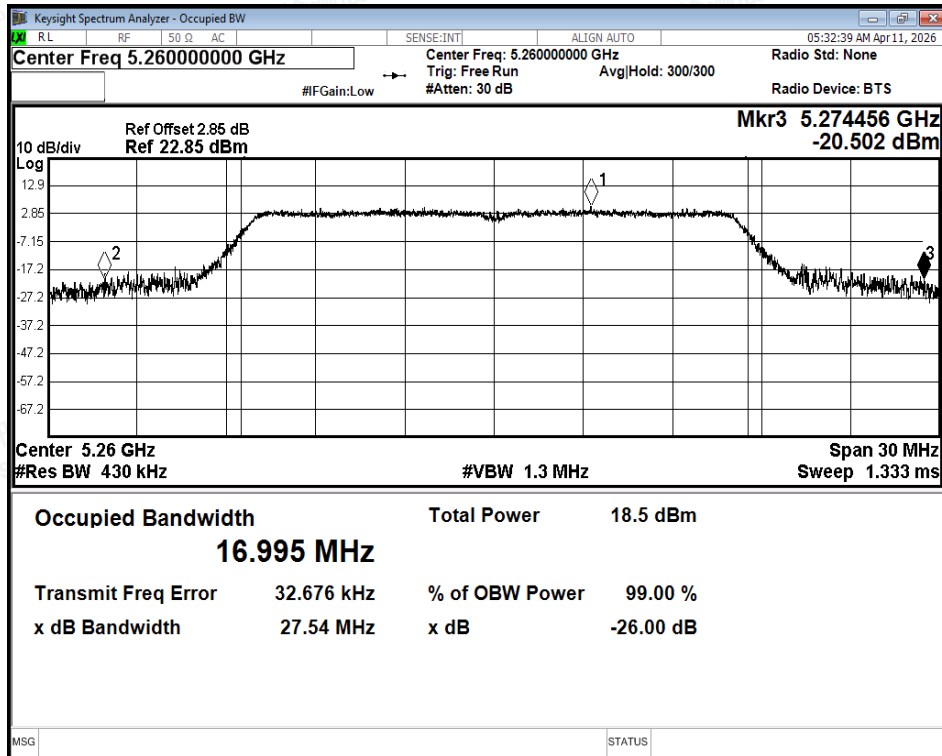


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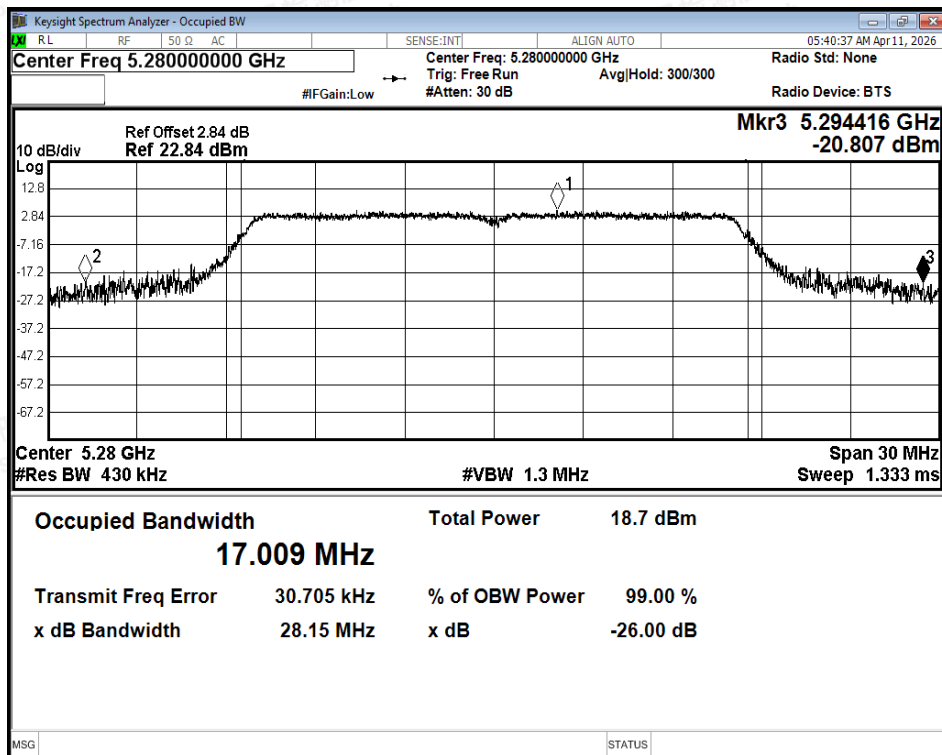
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-26dB Bandwidth NVNT a 5260MHz Ant1



-26dB Bandwidth NVNT a 5280MHz Ant1

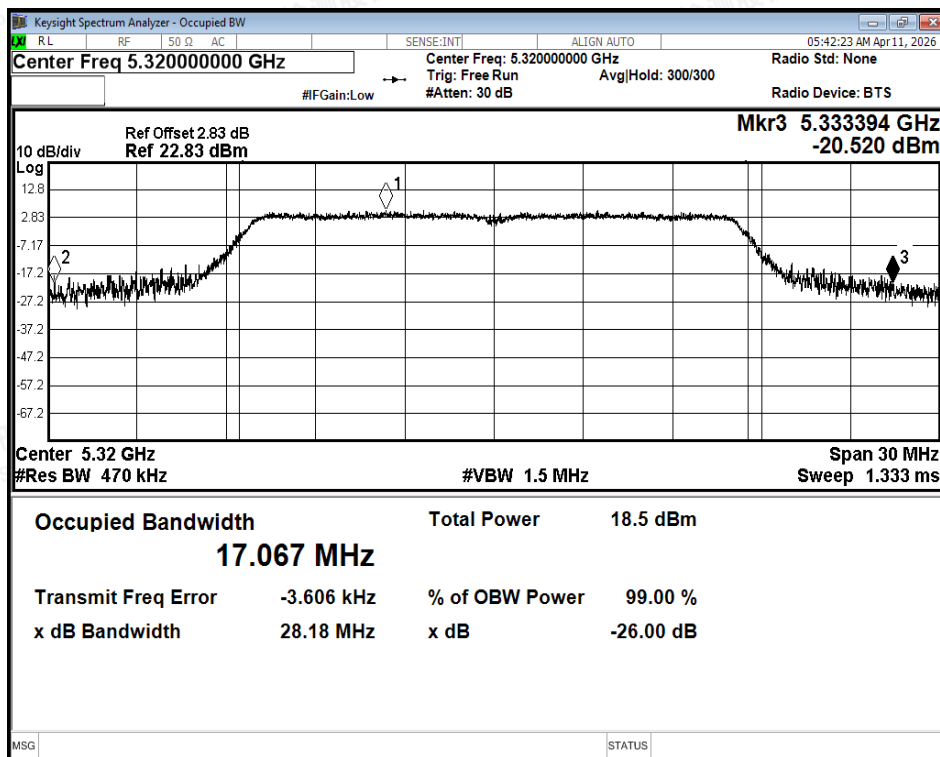


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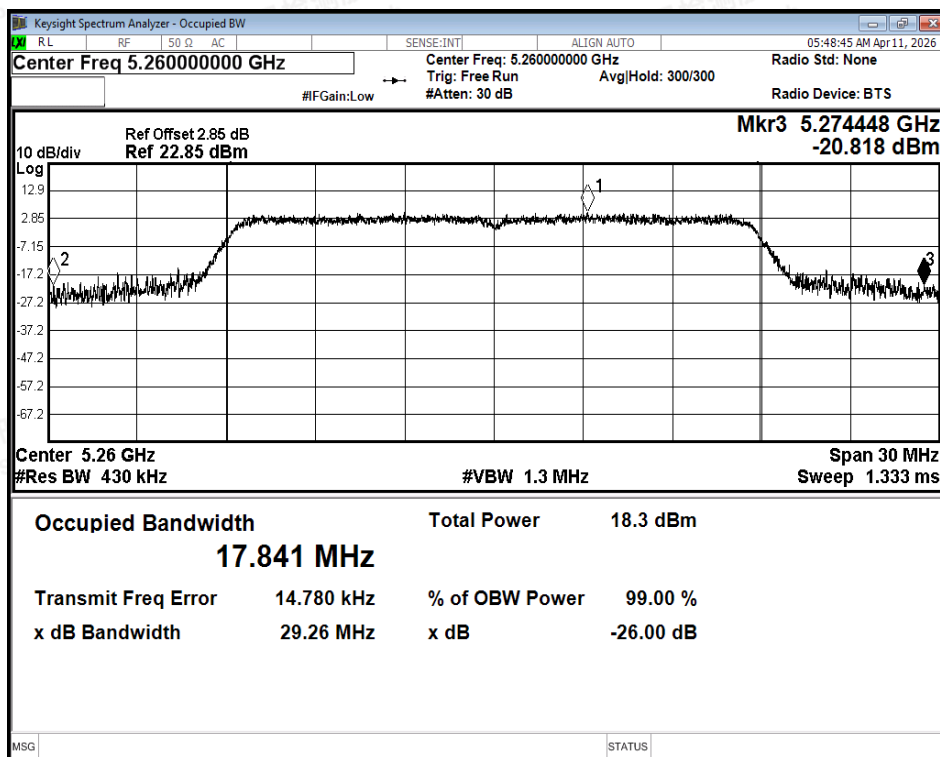
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-26dB Bandwidth NVNT a 5320MHz Ant1



-26dB Bandwidth NVNT n20 5260MHz Ant1

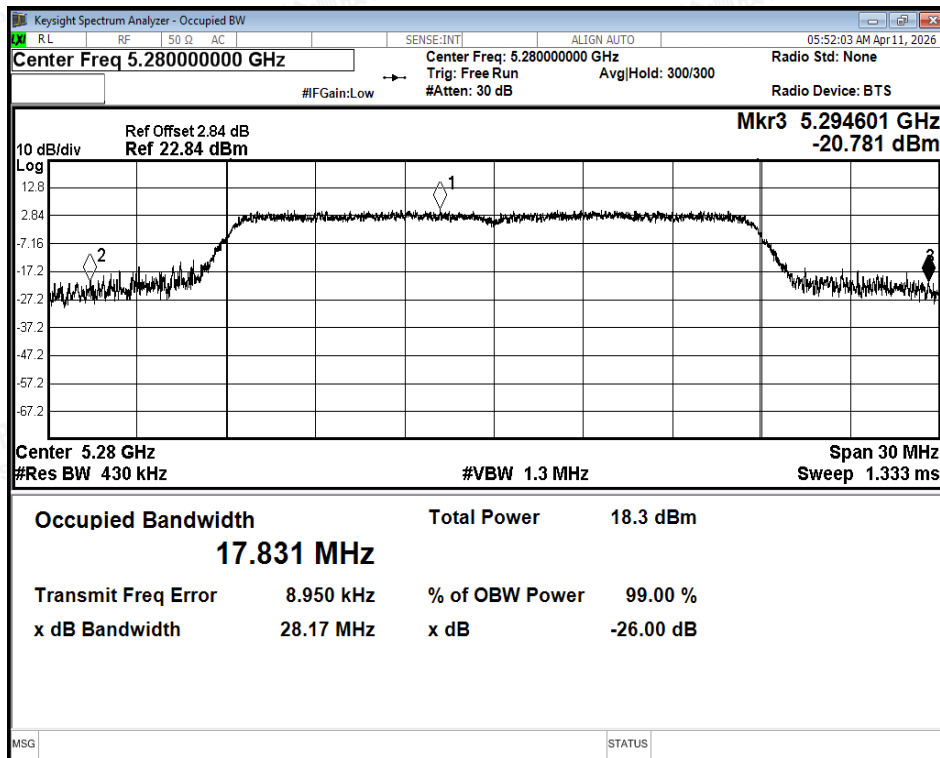


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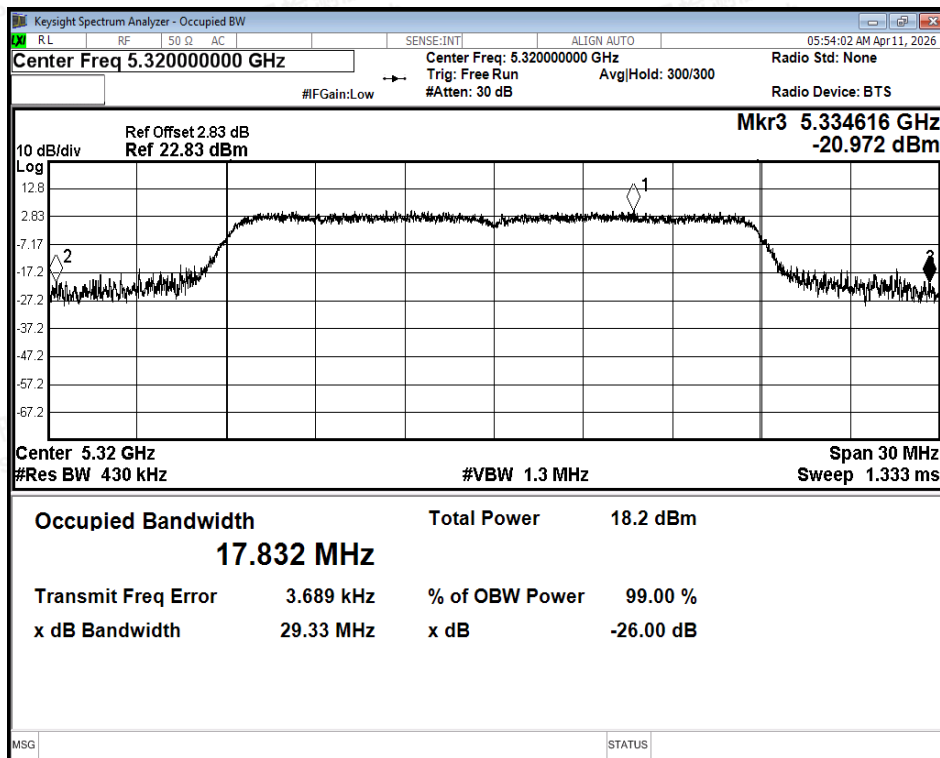
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-26dB Bandwidth NVNT n20 5280MHz Ant1



-26dB Bandwidth NVNT n20 5320MHz Ant1

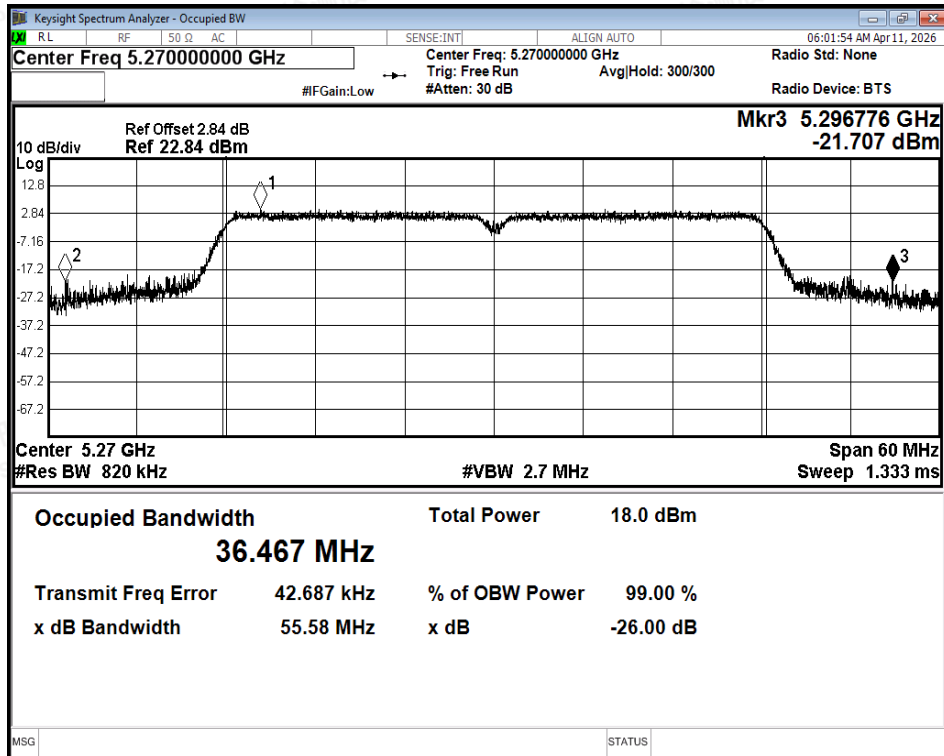


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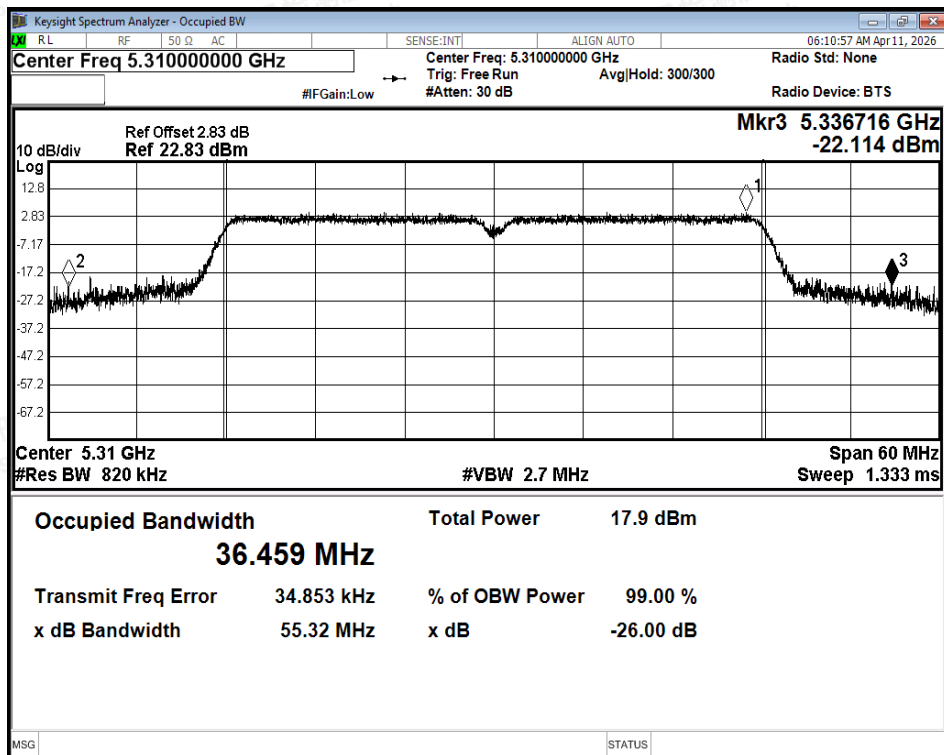
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-26dB Bandwidth NVNT n40 5270MHz Ant1



-26dB Bandwidth NVNT n40 5310MHz Ant1



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E.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Limit Conducted(dBm)	Verdict
NVNT	a	5260	Ant1	11.43	0.1	11.53	24	Pass
NVNT	a	5280	Ant1	11.44	0.11	11.55	24	Pass
NVNT	a	5320	Ant1	11.23	0.1	11.33	24	Pass
NVNT	n20	5260	Ant1	11.71	0.13	11.84	24	Pass
NVNT	n20	5280	Ant1	11.76	0.11	11.87	24	Pass
NVNT	n20	5320	Ant1	11.57	0.13	11.7	24	Pass
NVNT	n40	5270	Ant1	10.77	0.23	11	24	Pass
NVNT	n40	5310	Ant1	10.66	0.23	10.89	24	Pass



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E.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	0.91	0.1	1.01	11	Pass
NVNT	a	5280	Ant1	1.14	0.11	1.25	11	Pass
NVNT	a	5320	Ant1	0.96	0.1	1.06	11	Pass
NVNT	n20	5260	Ant1	0.26	0.13	0.39	11	Pass
NVNT	n20	5280	Ant1	0.2	0.11	0.31	11	Pass
NVNT	n20	5320	Ant1	0.05	0.13	0.18	11	Pass
NVNT	n40	5270	Ant1	-3.9	0.23	-3.67	11	Pass
NVNT	n40	5310	Ant1	-3.93	0.23	-3.7	11	Pass

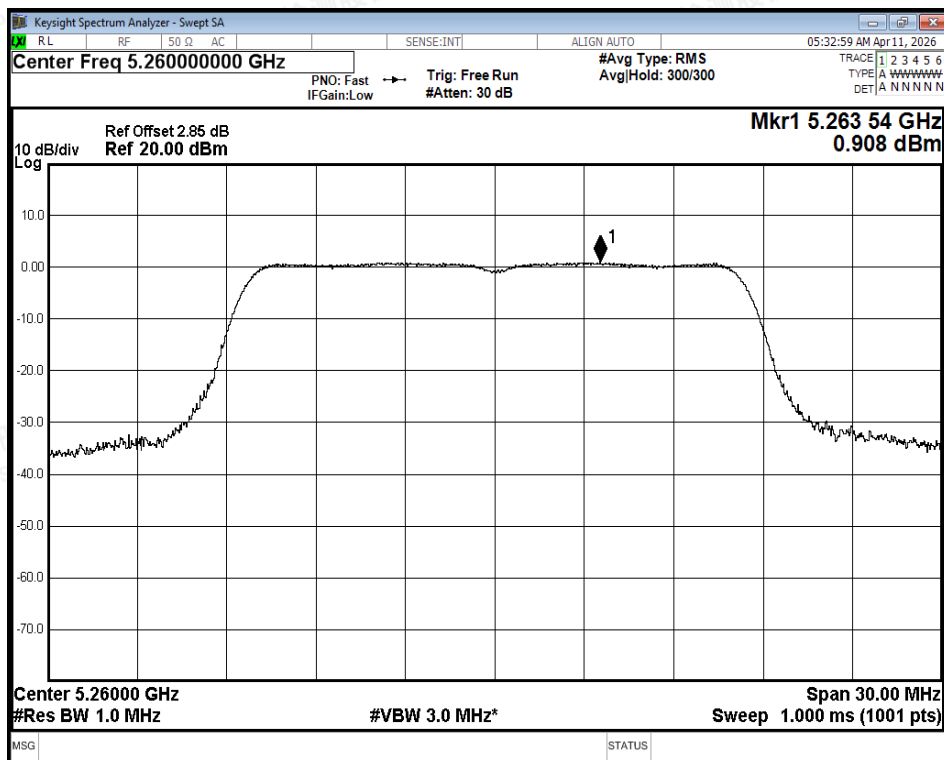


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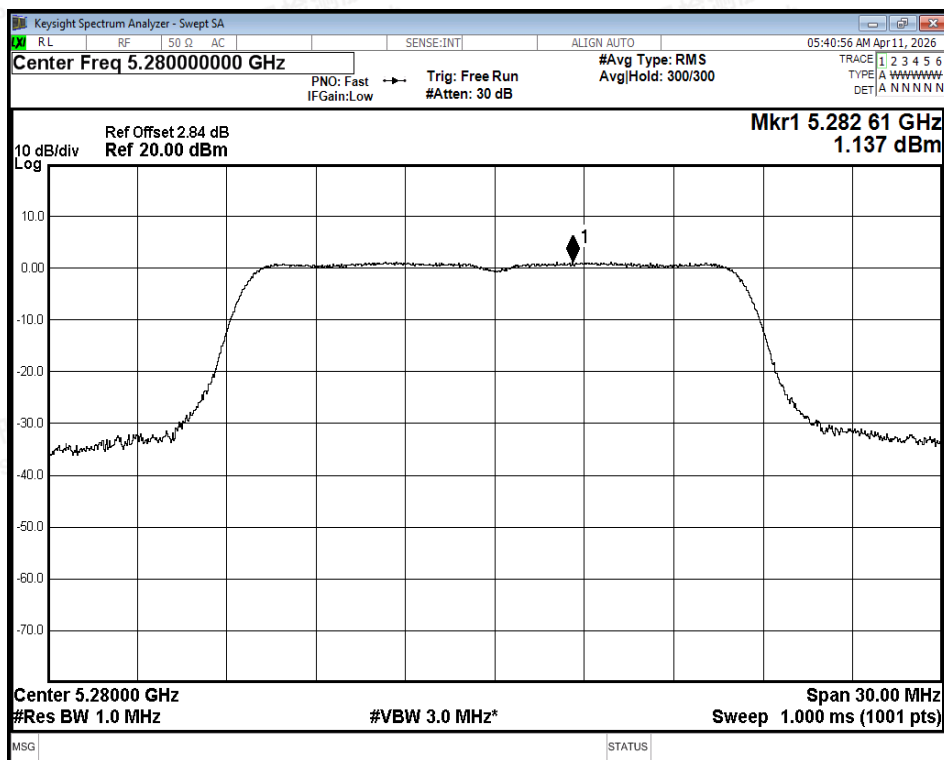
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PSD NVNT a 5260MHz Ant1



PSD NVNT a 5280MHz Ant1

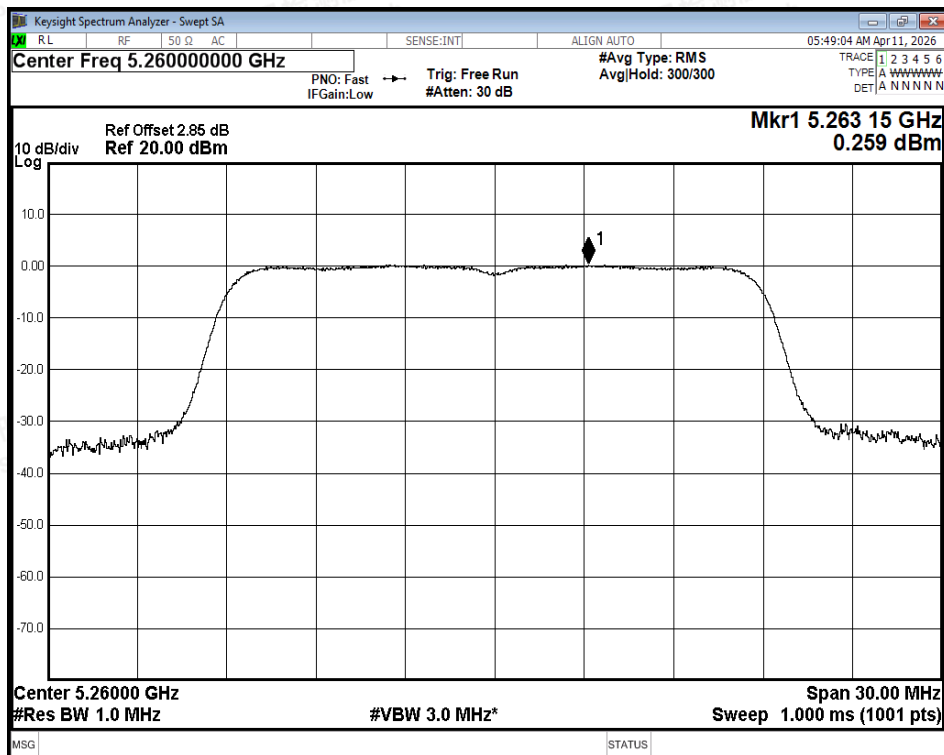
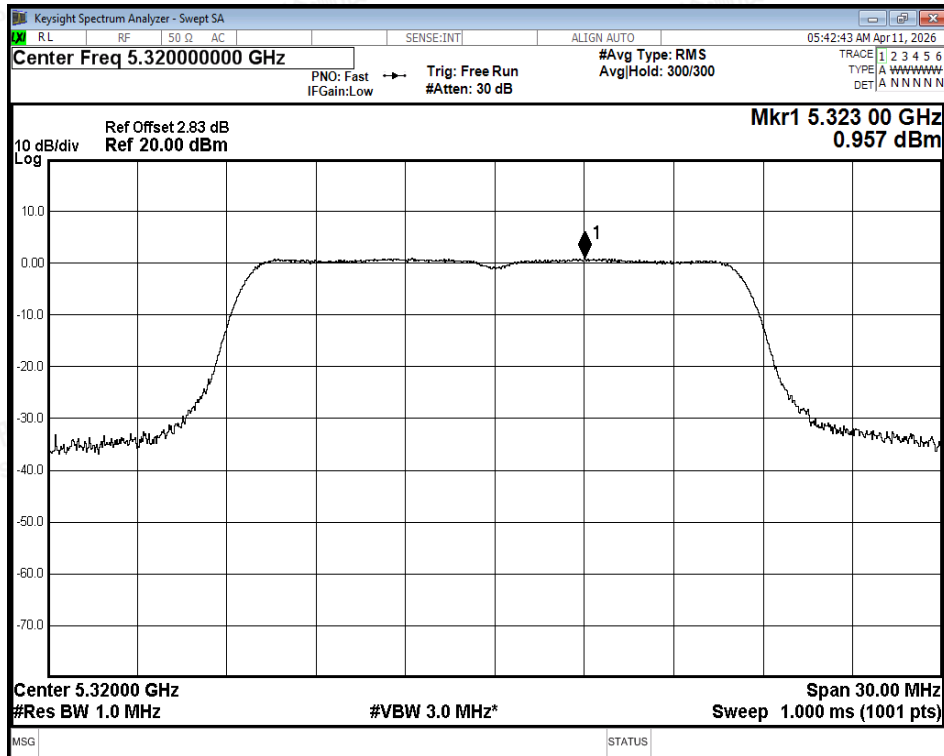


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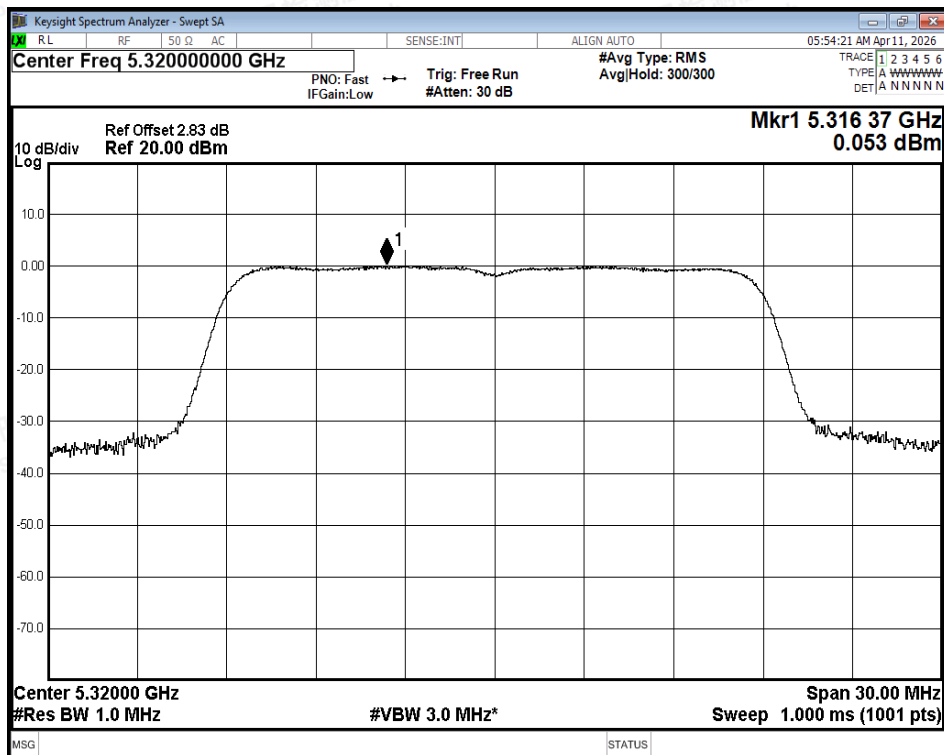
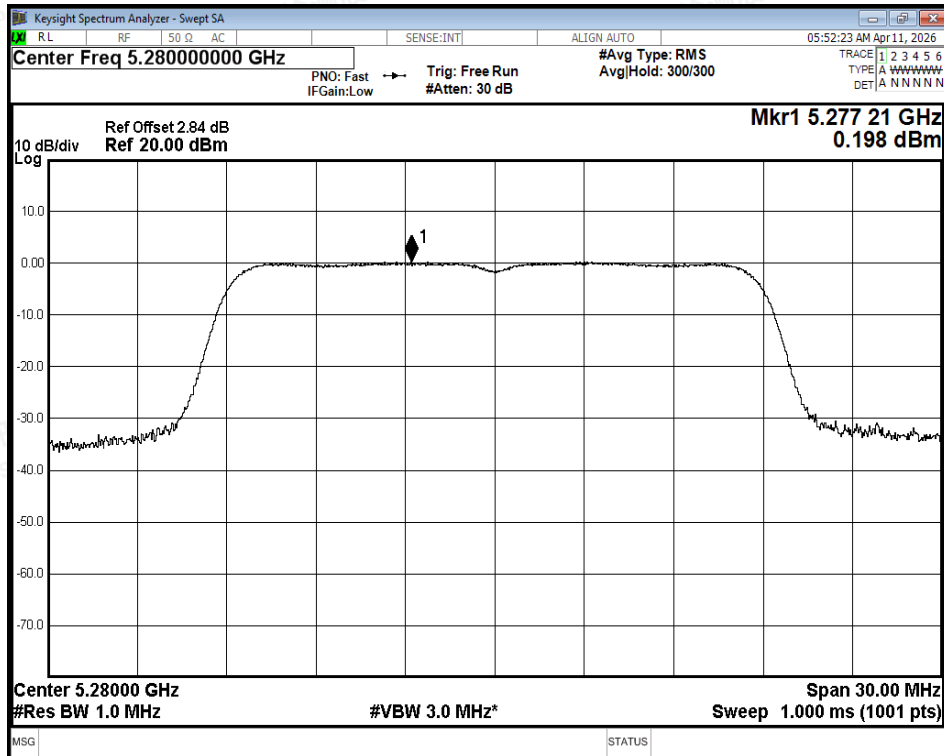


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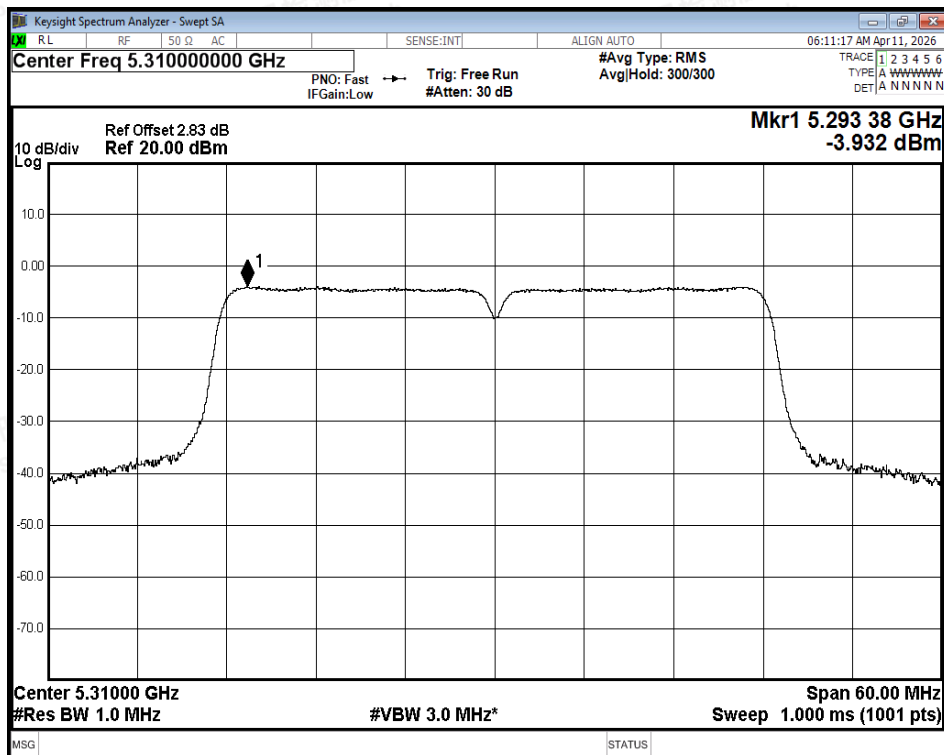
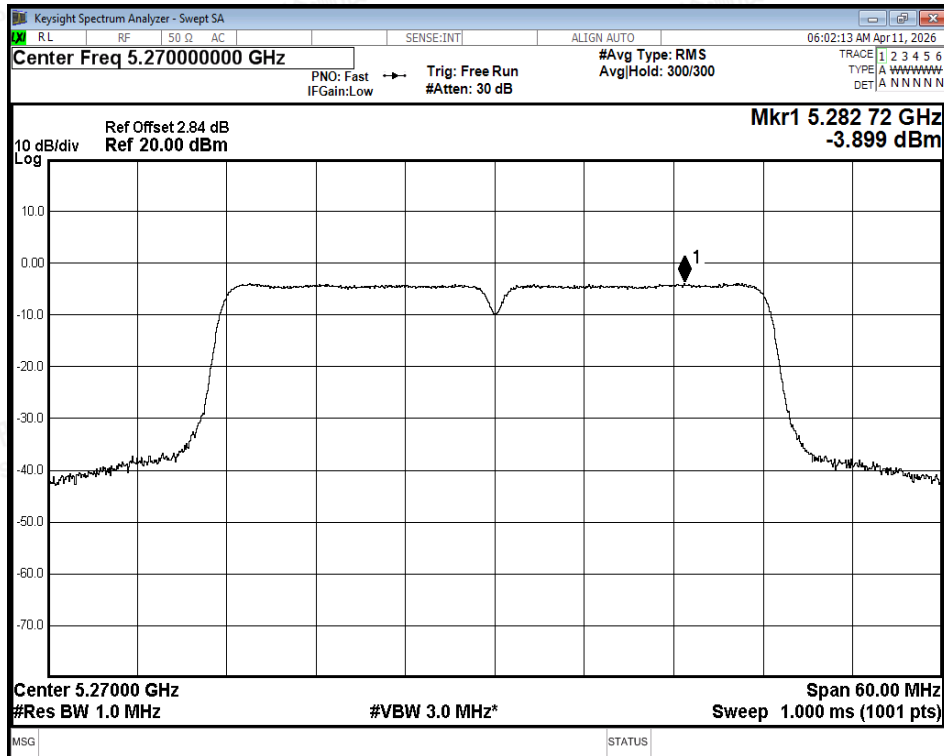


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E.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5260	Ant1	4500	-52.86	2	44.37	Peak	68.2	Pass
NVNT	a	5260	Ant1	4500	-59.15	2	38.08	Average	54	Pass
NVNT	a	5260	Ant1	4773	-47.18	2	50.05	Peak	68.2	Pass
NVNT	a	5260	Ant1	4787.82	-54.05	2	43.18	Average	54	Pass
NVNT	a	5260	Ant1	5150	-48.87	2	48.36	Peak	68.2	Pass
NVNT	a	5260	Ant1	5150	-56.29	2	40.94	Average	54	Pass
NVNT	a	5320	Ant1	5350	-35.67	2	61.56	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-49.54	2	47.69	Average	54	Pass
NVNT	a	5320	Ant1	5350	-35.67	2	61.56	Peak	68.2	Pass
NVNT	a	5320	Ant1	5350	-49.54	2	47.69	Average	54	Pass
NVNT	a	5320	Ant1	5460	-49.63	2	47.6	Peak	68.2	Pass
NVNT	a	5320	Ant1	5460	-57.5	2	39.73	Average	54	Pass
NVNT	n20	5260	Ant1	4500	-52.4	2	44.83	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4500	-59.25	2	37.98	Average	54	Pass
NVNT	n20	5260	Ant1	4975.02	-46.94	2	50.29	Peak	68.2	Pass
NVNT	n20	5260	Ant1	4787.82	-54.36	2	42.87	Average	54	Pass
NVNT	n20	5260	Ant1	5150	-49.48	2	47.75	Peak	68.2	Pass
NVNT	n20	5260	Ant1	5150	-56.46	2	40.77	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-35.03	2	62.2	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-48.52	2	48.71	Average	54	Pass
NVNT	n20	5320	Ant1	5350	-35.03	2	62.2	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5350	-48.52	2	48.71	Average	54	Pass
NVNT	n20	5320	Ant1	5460	-49.78	2	47.45	Peak	68.2	Pass
NVNT	n20	5320	Ant1	5460	-57.44	2	39.79	Average	54	Pass
NVNT	n40	5270	Ant1	4500	-52.39	2	44.84	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4500	-59.02	2	38.21	Average	54	Pass
NVNT	n40	5270	Ant1	4806.99	-44.18	2	53.05	Peak	68.2	Pass
NVNT	n40	5270	Ant1	4806.99	-51.1	2	46.13	Average	54	Pass
NVNT	n40	5270	Ant1	5150	-49.43	2	47.8	Peak	68.2	Pass
NVNT	n40	5270	Ant1	5150	-56.74	2	40.49	Average	54	Pass
NVNT	n40	5310	Ant1	5350	-41.65	2	55.58	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-50.99	2	46.24	Average	54	Pass
NVNT	n40	5310	Ant1	5351.4	-37.14	2	60.09	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5350	-50.99	2	46.24	Average	54	Pass
NVNT	n40	5310	Ant1	5460	-49.21	2	48.02	Peak	68.2	Pass
NVNT	n40	5310	Ant1	5460	-57.29	2	39.94	Average	54	Pass

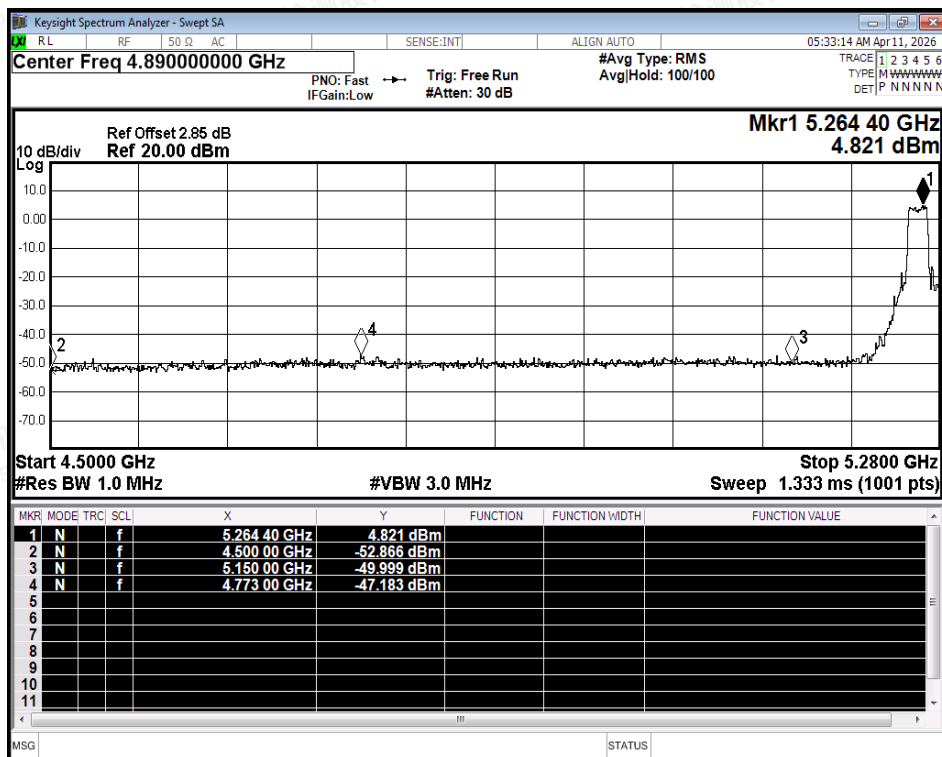


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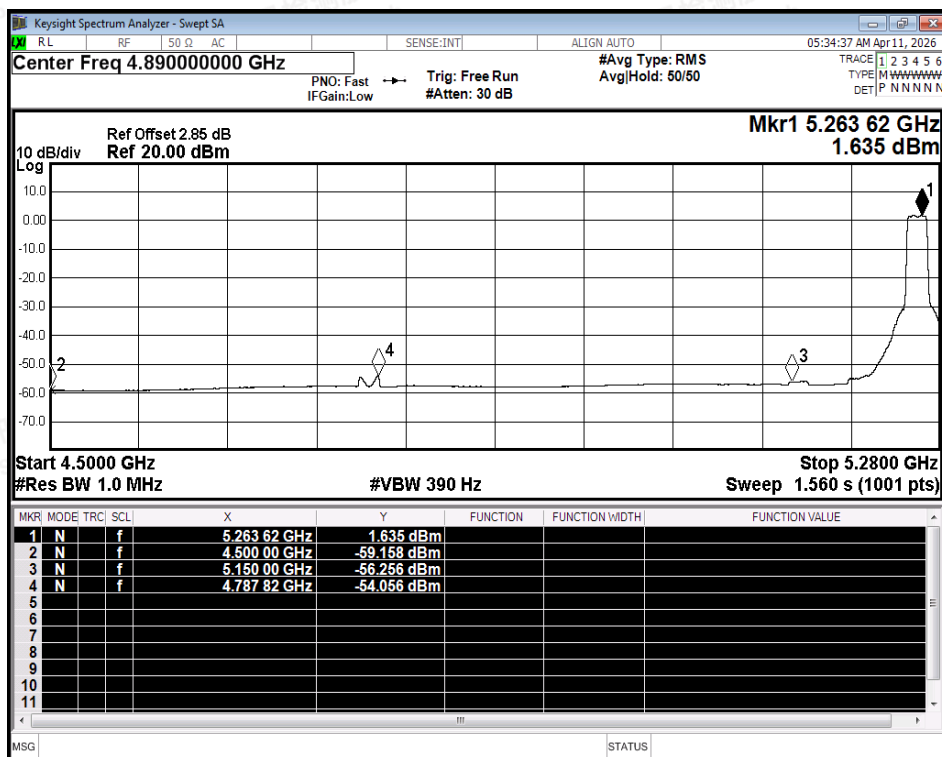
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Restrict Band NVNT a 5260MHz Ant1 Peak



Restrict Band NVNT a 5260MHz Ant1 Average

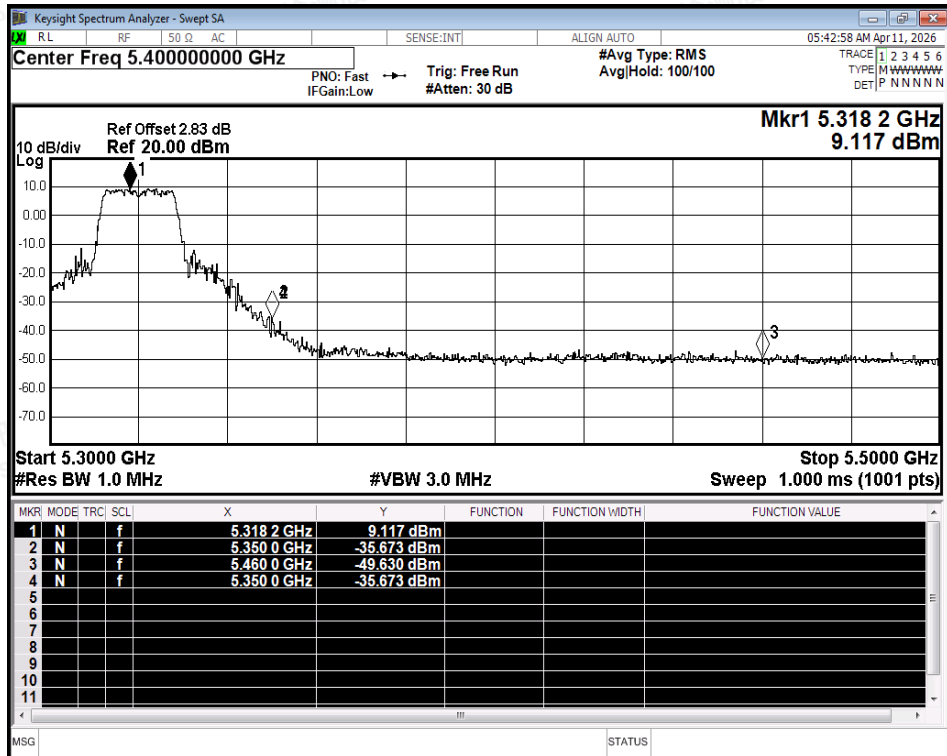


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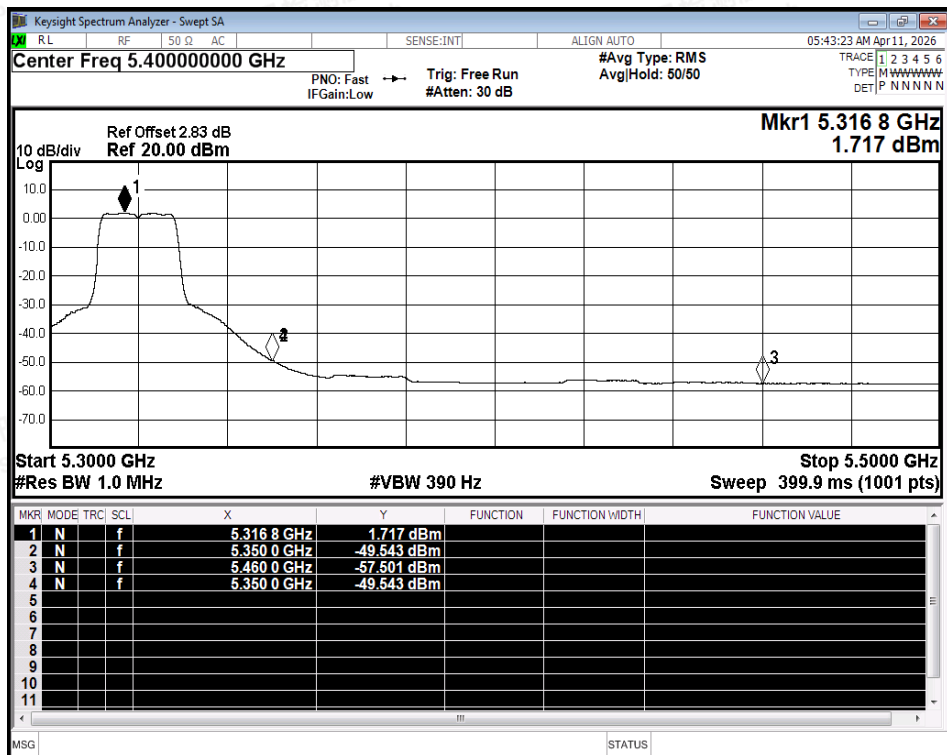
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Restrict Band NVNT a 5320MHz Ant1 Peak



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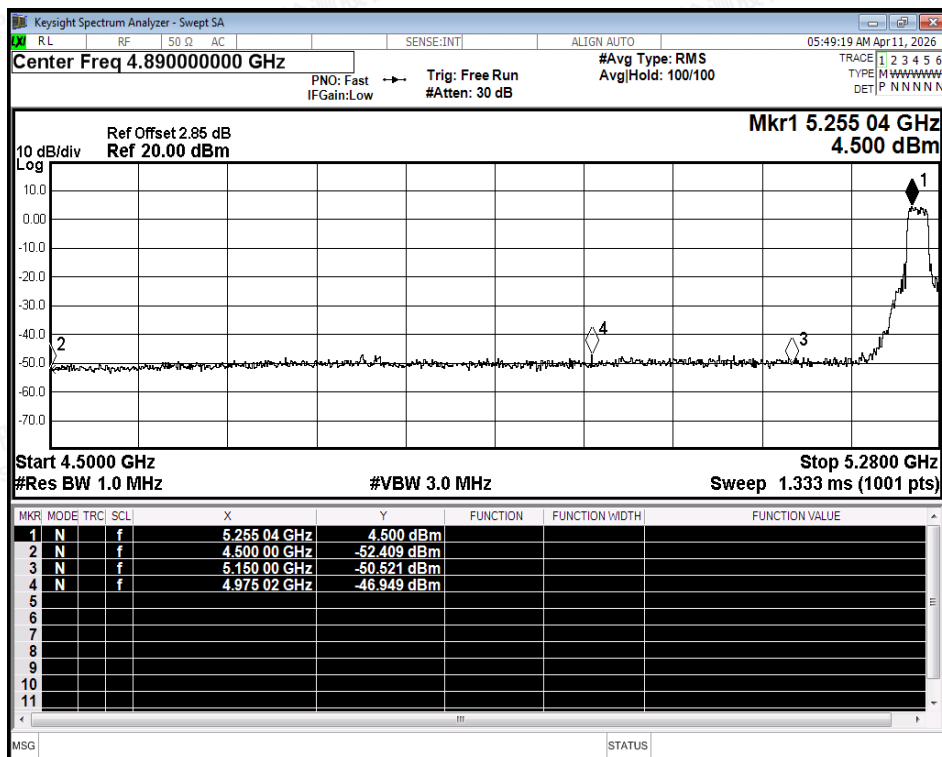


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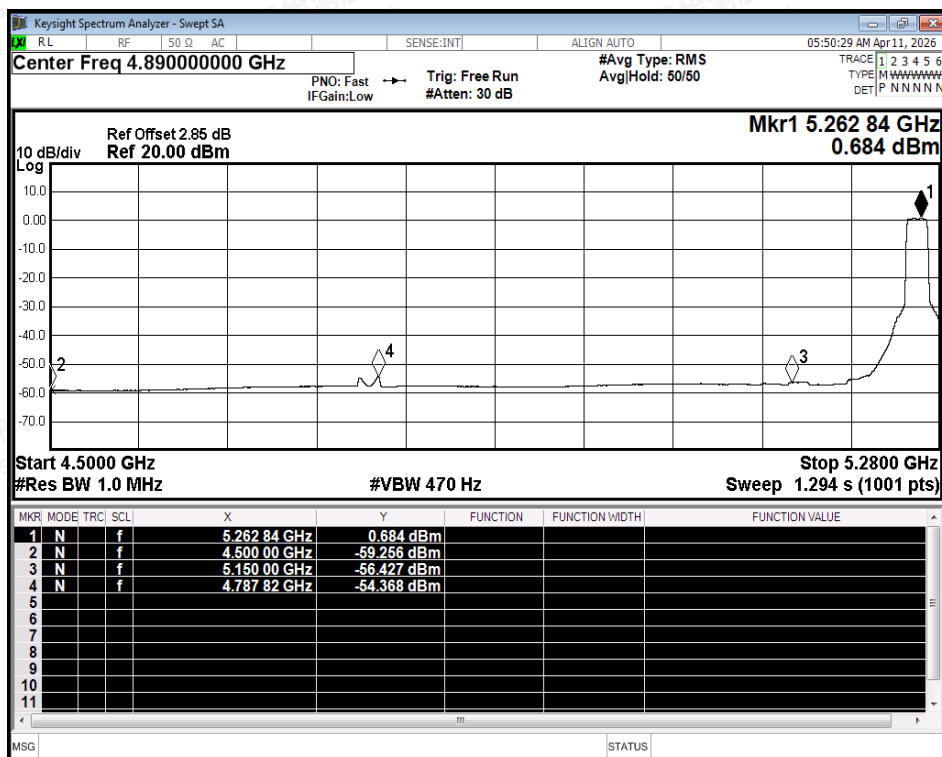
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Restrict Band NVNT n20 5260MHz Ant1 Peak



Restrict Band NVNT n20 5260MHz Ant1 Average

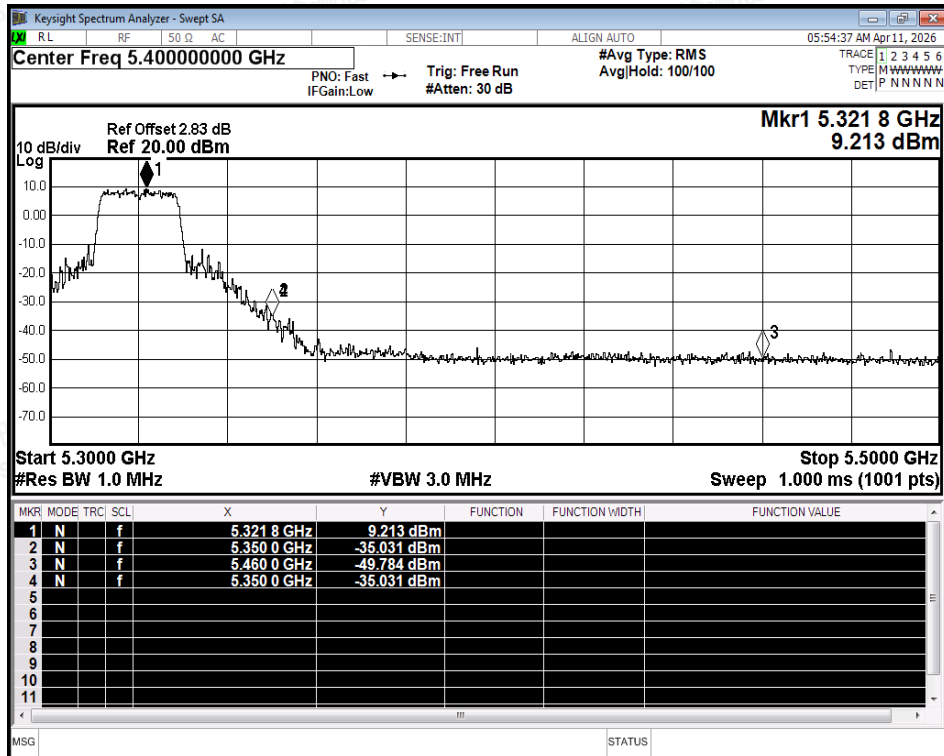


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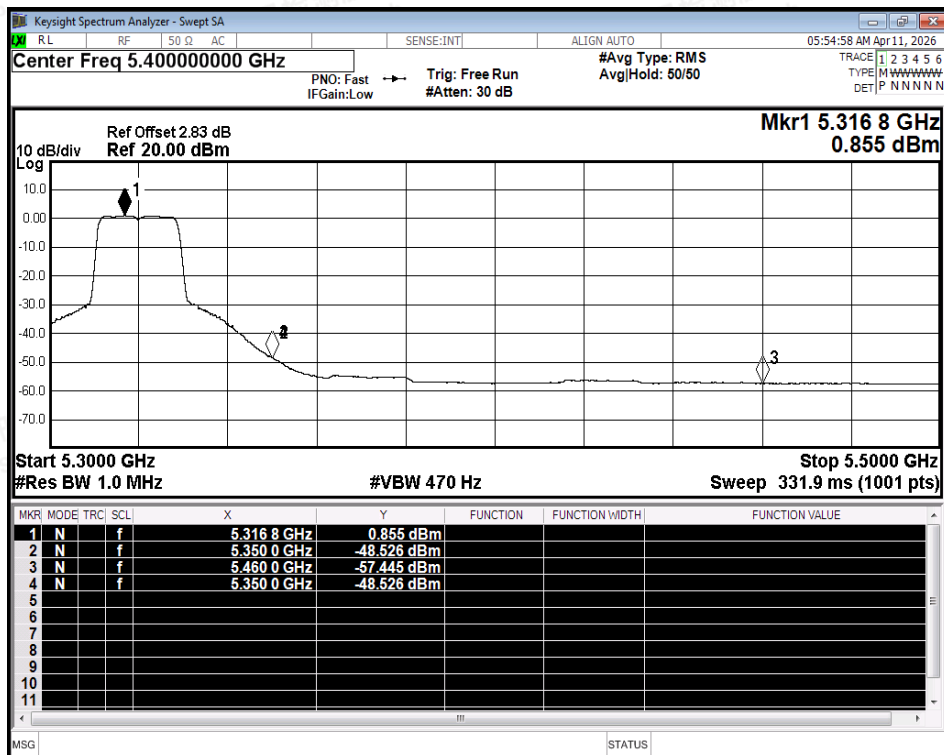
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Restrict Band NVNT n20 5320MHz Ant1 Peak



Restrict Band NVNT n20 5320MHz Ant1 Average

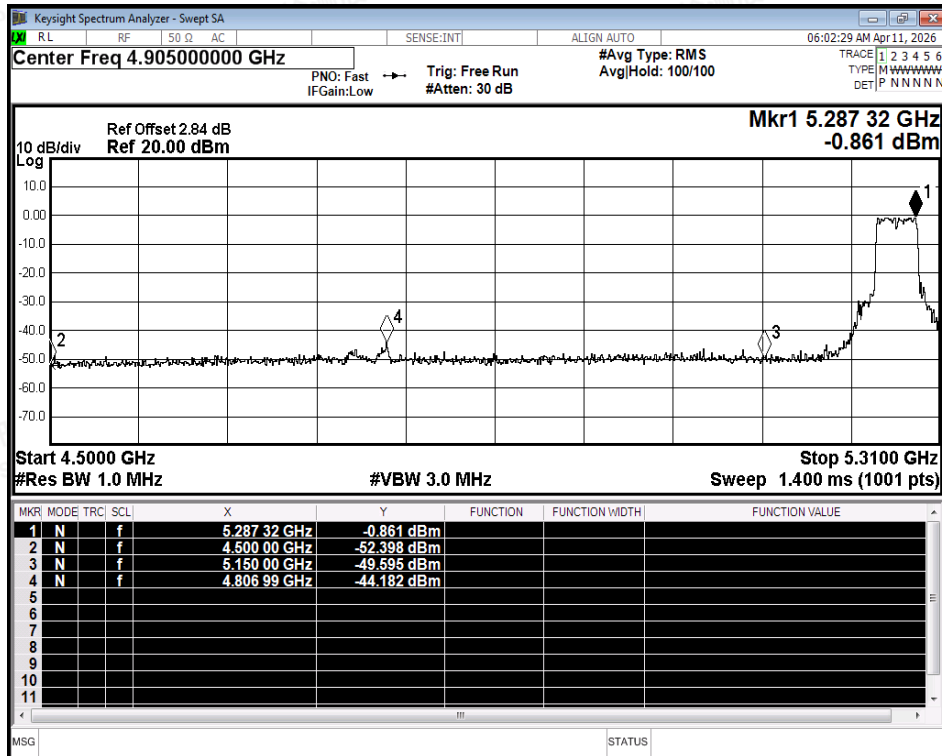


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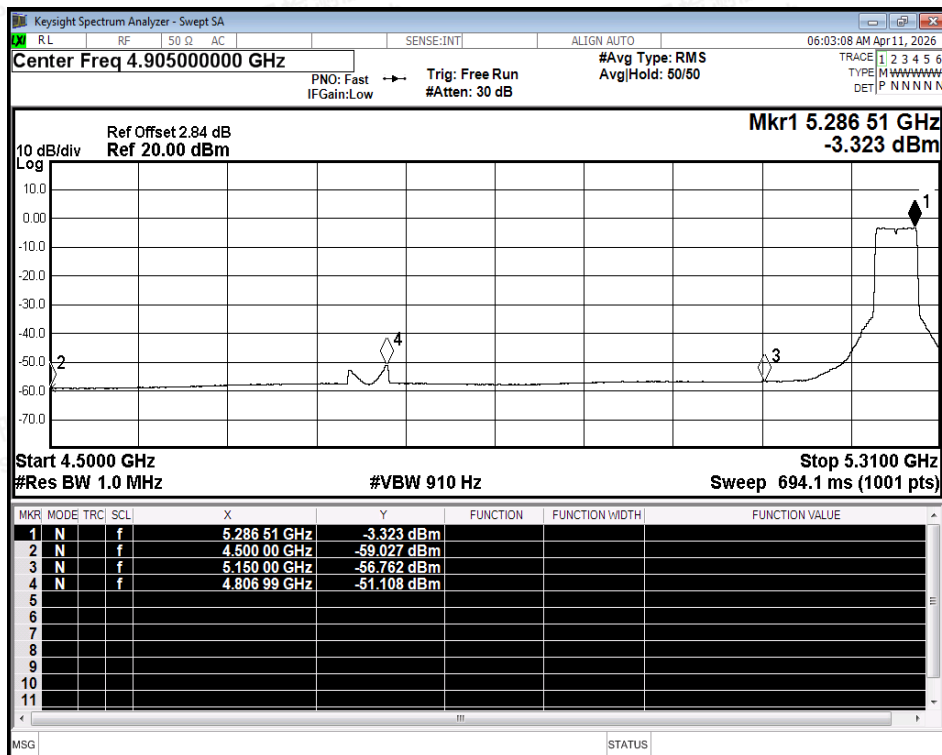
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Restrict Band NVNT n40 5270MHz Ant1 Peak



Restrict Band NVNT n40 5270MHz Ant1 Average

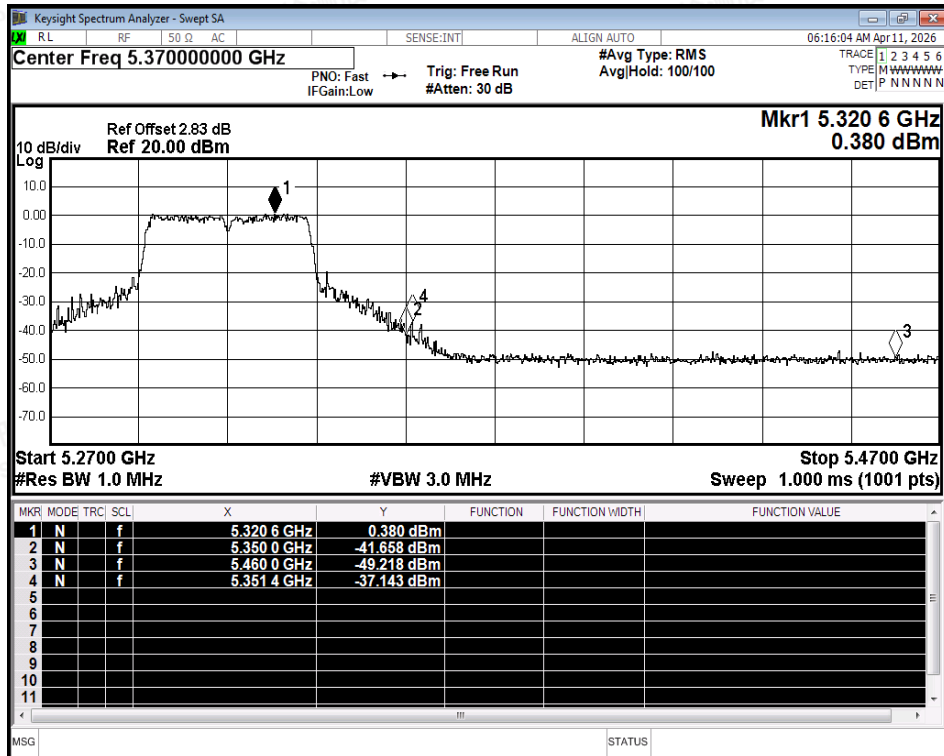


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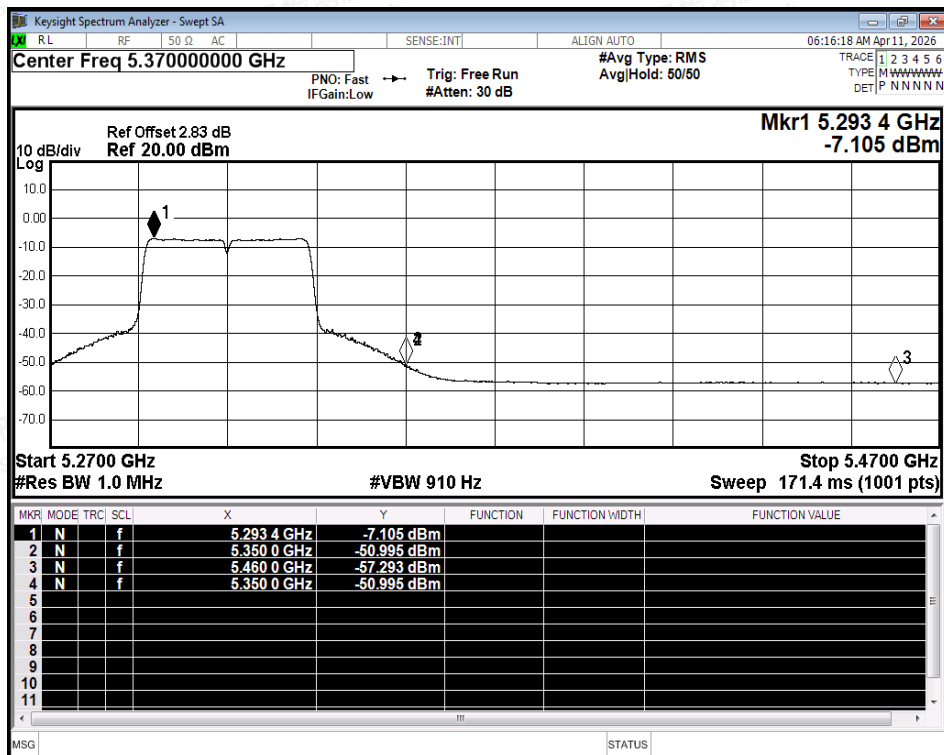
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Restrict Band NVNT n40 5310MHz Ant1 Peak



Restrict Band NVNT n40 5310MHz Ant1 Average



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E.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
NVNT	a	5280	Ant1	5280	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	5280	Ant1	5279.98	-20000	-3.79	25	Pass
NVNT	n20	5320	Ant1	5320.02	20000	3.76	25	Pass
NVNT	n40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
NVNT	n40	5310	Ant1	5310	0	0	25	Pass

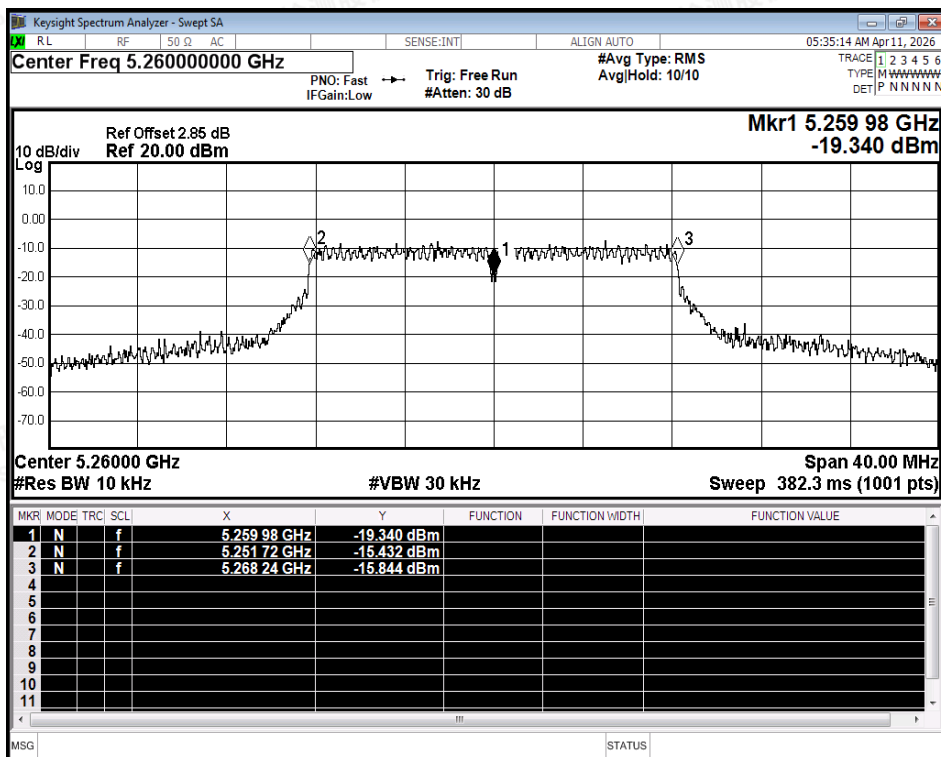


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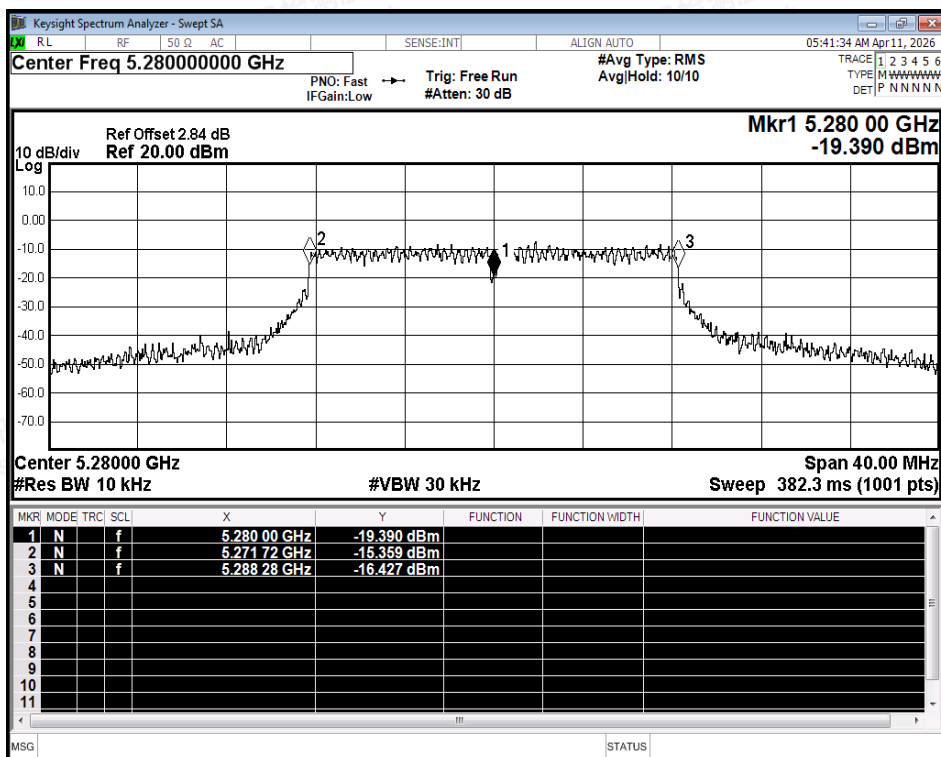
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Freq. Stability NVNT a 5260MHz Ant1



Freq. Stability NVNT a 5280MHz Ant1

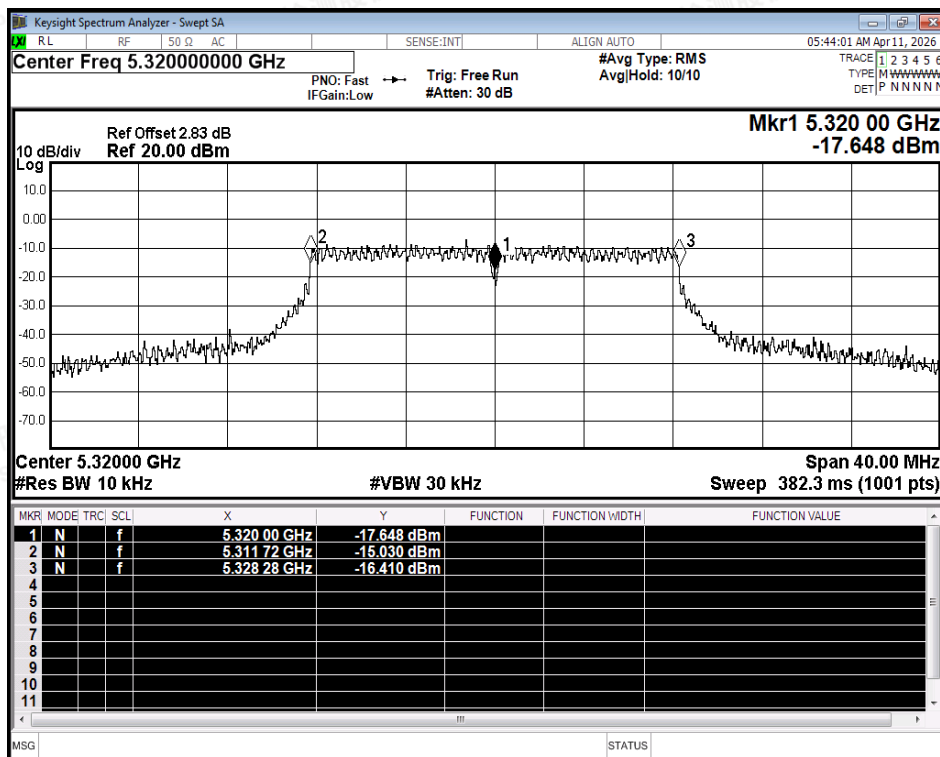


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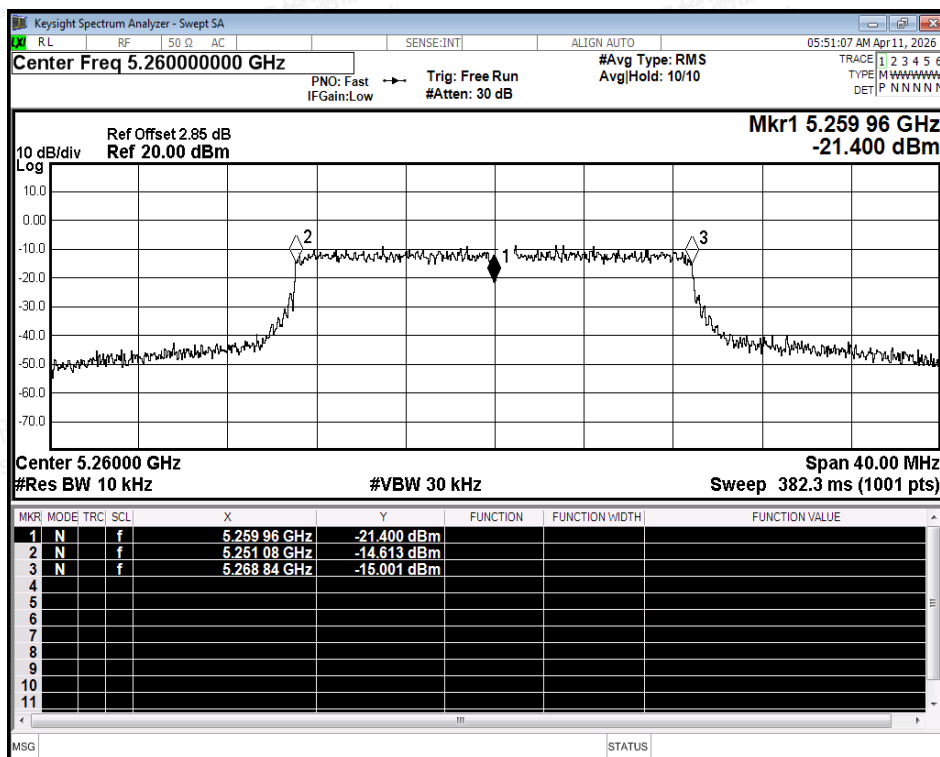
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Freq. Stability NVNT a 5320MHz Ant1



Freq. Stability NVNT n20 5260MHz Ant1

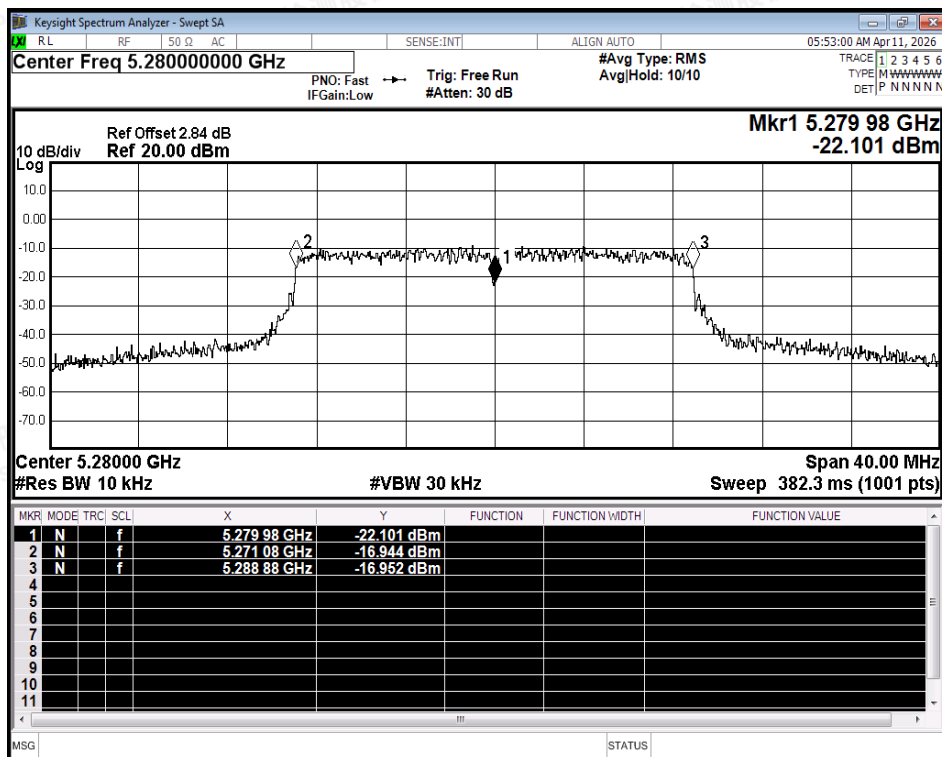


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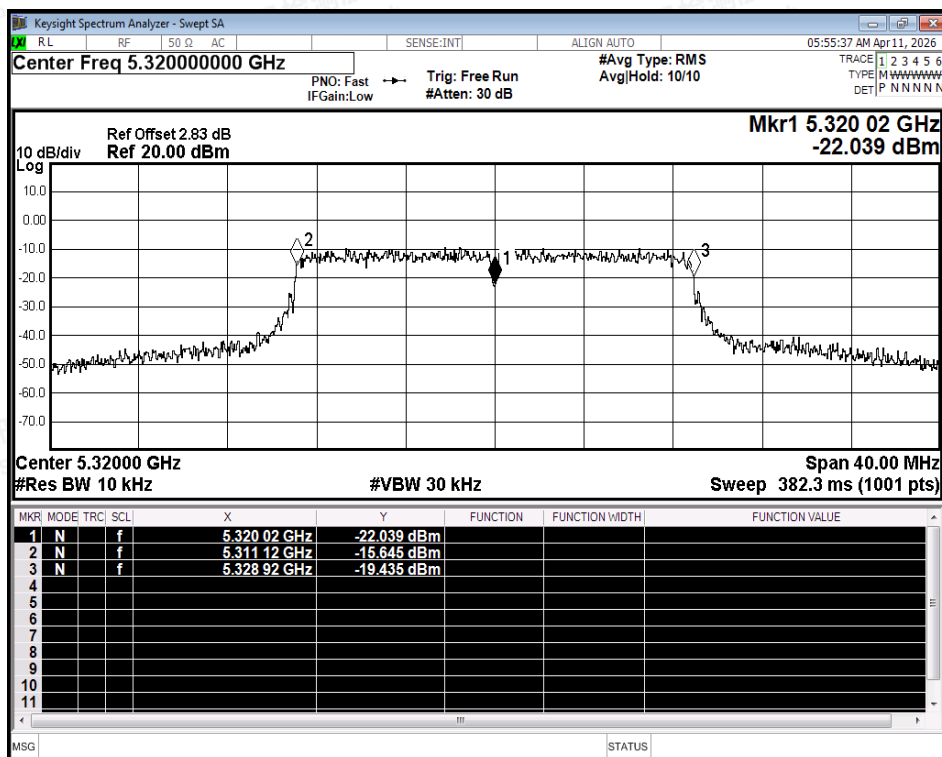
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Freq. Stability NVNT n20 5280MHz Ant1



Freq. Stability NVNT n20 5320MHz Ant1

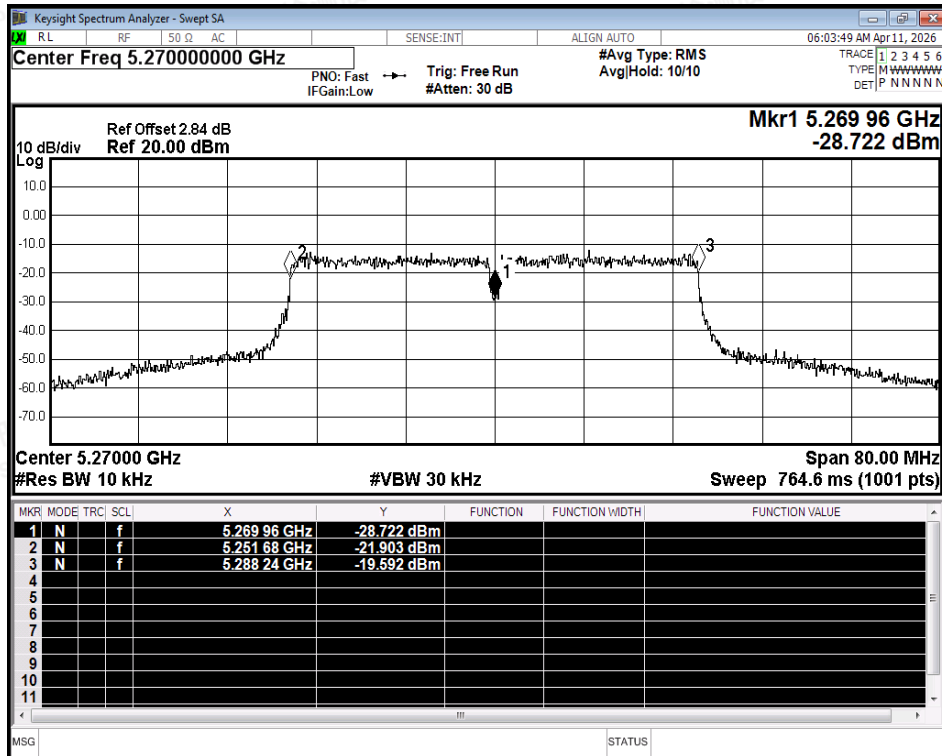


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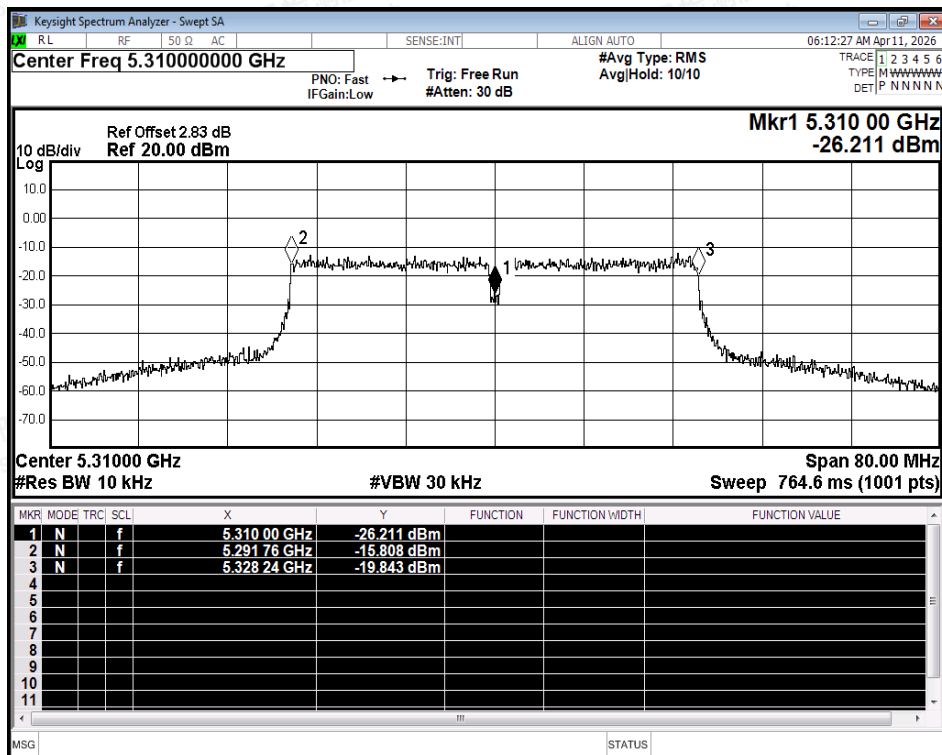
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Freq. Stability NVNT n40 5270MHz Ant1



Freq. Stability NVNT n40 5310MHz Ant1



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E.6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5260	Ant1	97.83	0.1	0.37
NVNT	a	5280	Ant1	97.46	0.11	0.37
NVNT	a	5320	Ant1	97.83	0.1	0.37
NVNT	n20	5260	Ant1	97	0.13	0.44
NVNT	n20	5280	Ant1	97.41	0.11	0.44
NVNT	n20	5320	Ant1	97	0.13	0.44
NVNT	n40	5270	Ant1	94.87	0.23	0.9
NVNT	n40	5310	Ant1	94.87	0.23	0.9

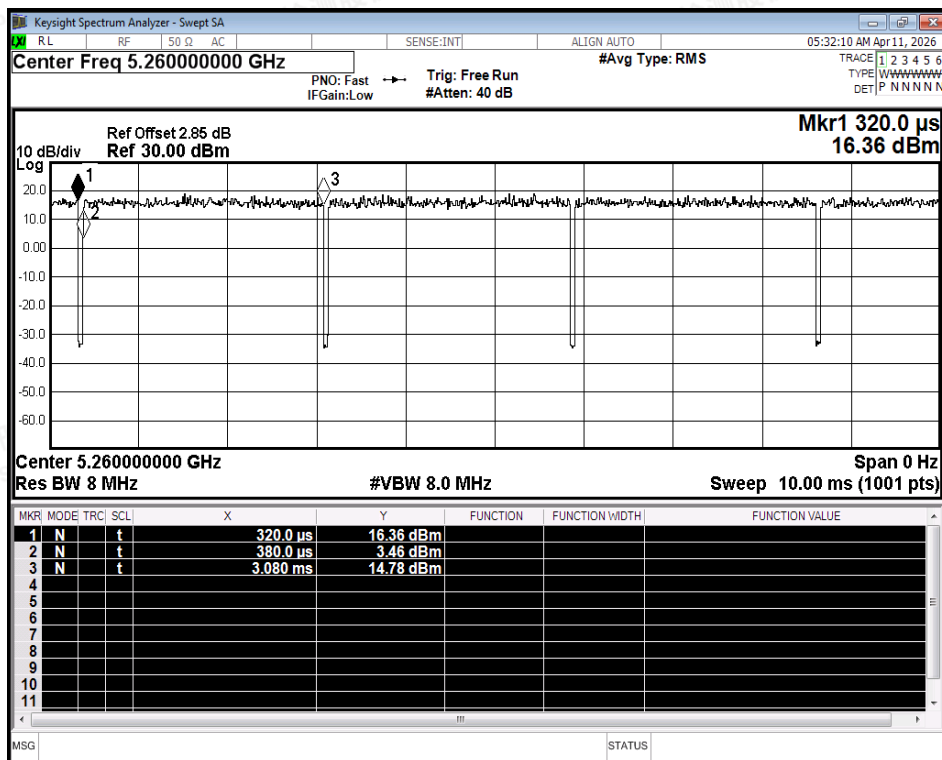


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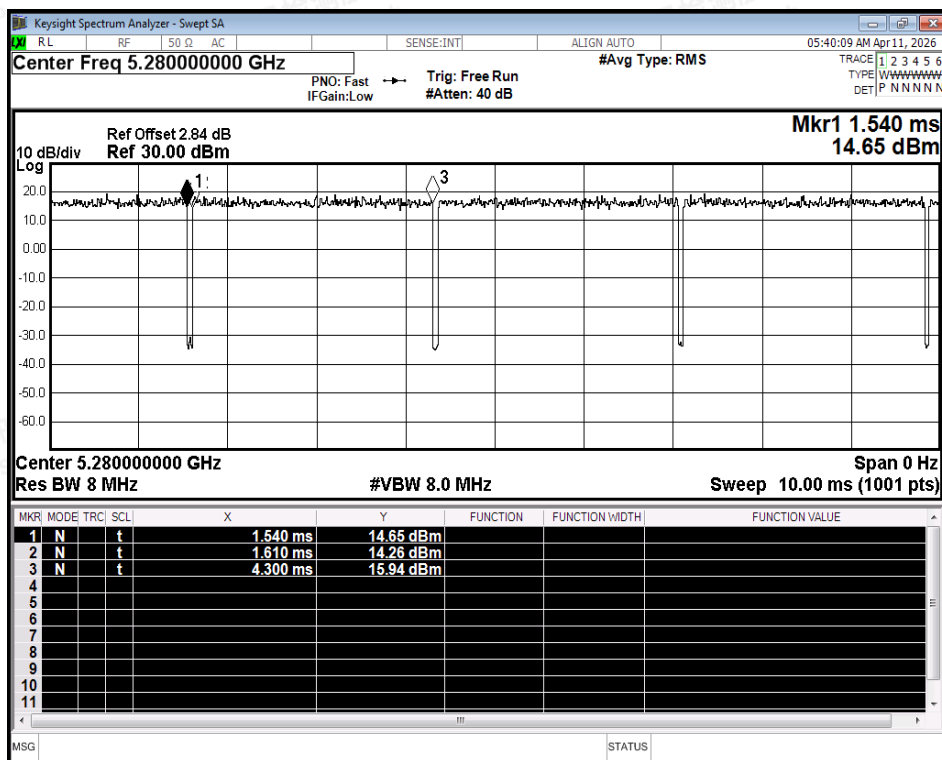
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Duty Cycle NVNT a 5260MHz Ant1



Duty Cycle NVNT a 5280MHz Ant1

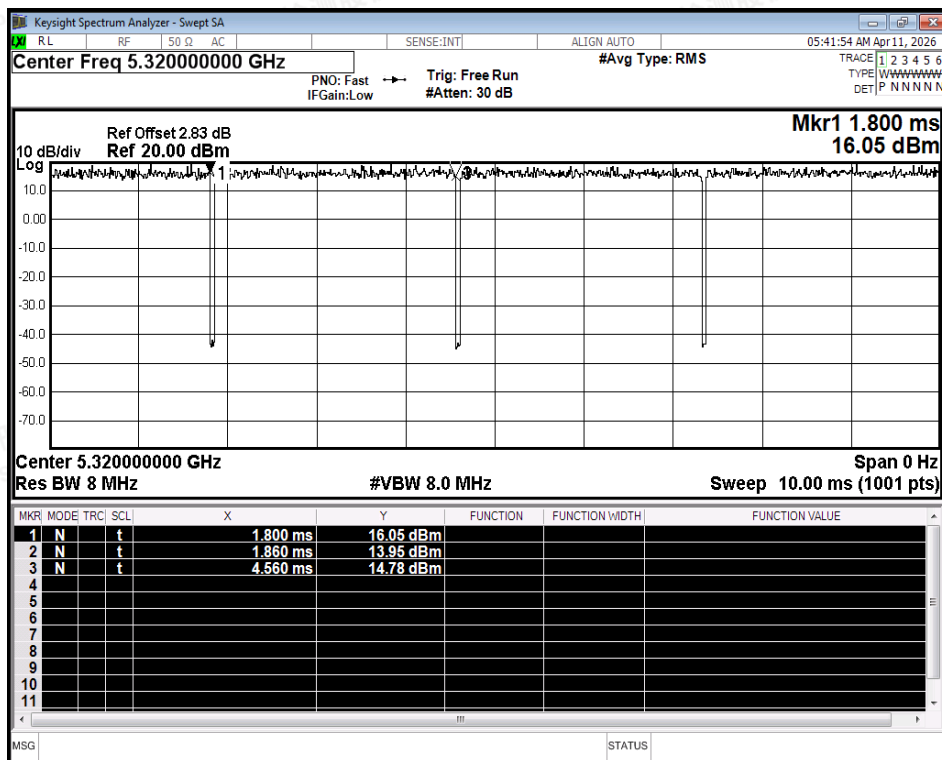


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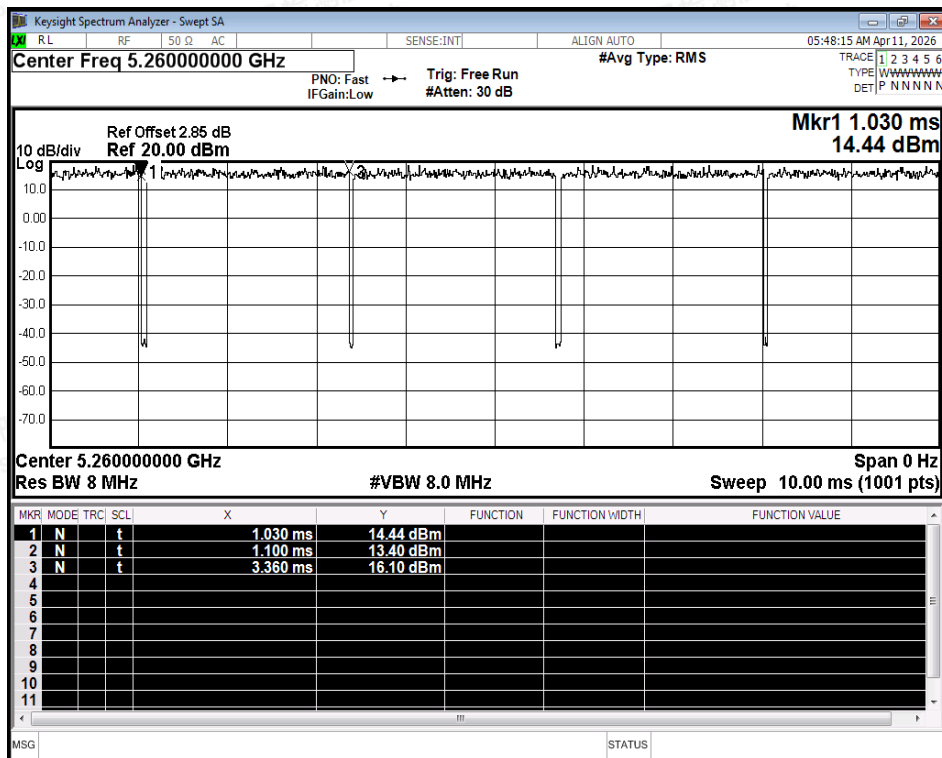
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Duty Cycle NVNT a 5320MHz Ant1



Duty Cycle NVNT n20 5260MHz Ant1

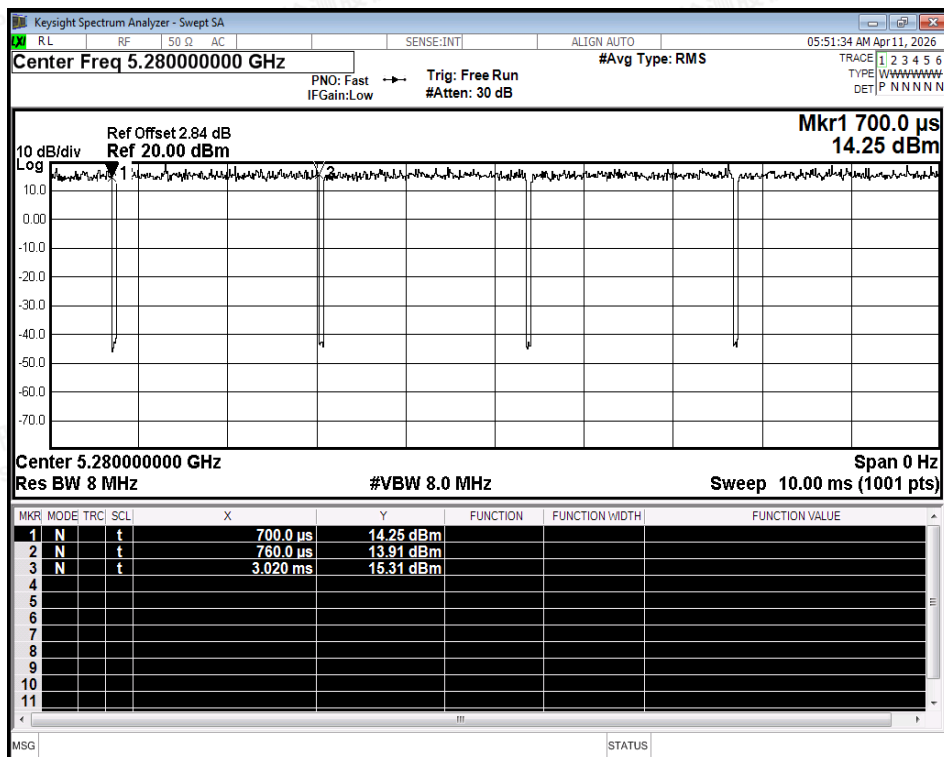


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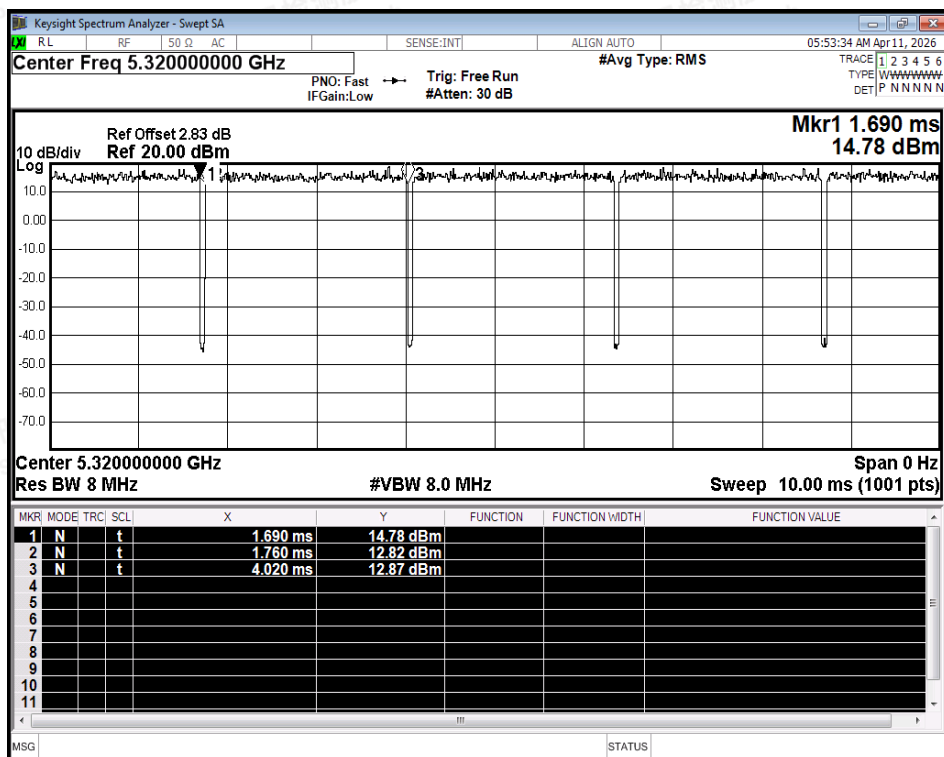
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n20 5280MHz Ant1



Duty Cycle NVNT n20 5320MHz Ant1

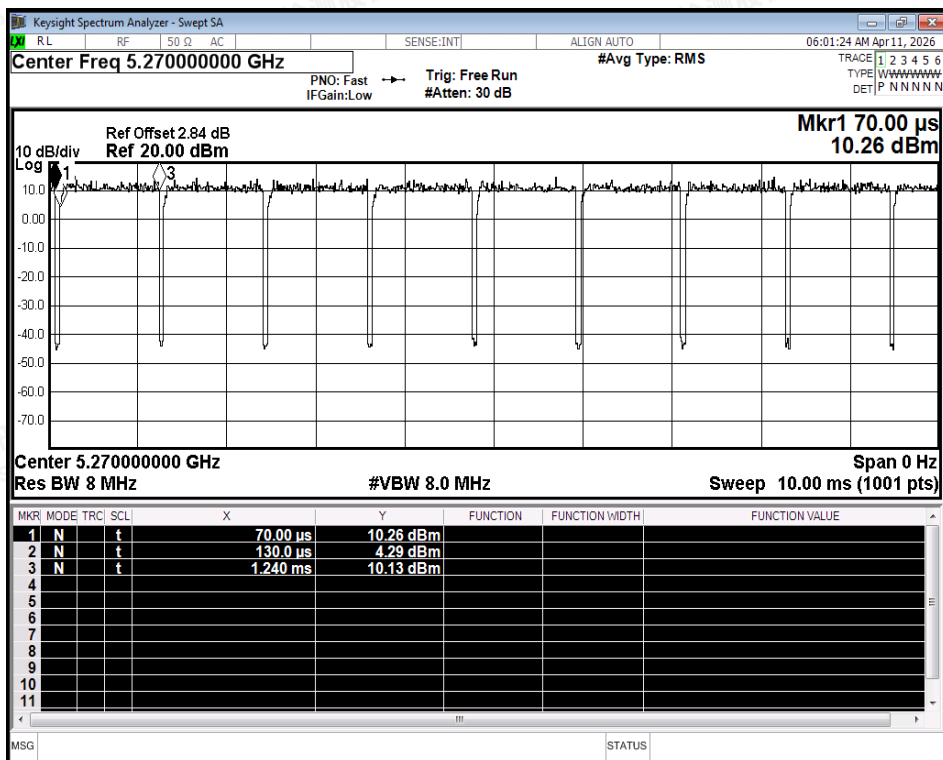


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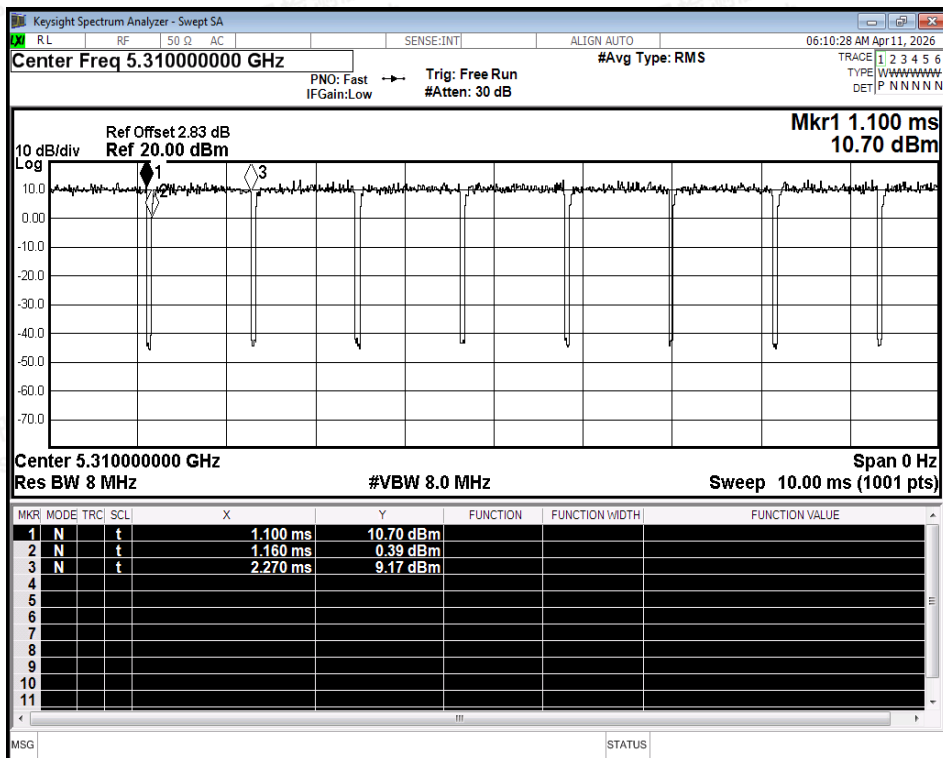
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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Duty Cycle NVNT n40 5270MHz Ant1



Duty Cycle NVNT n40 5310MHz Ant1



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