



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Fanless box pc

Test Model: APC3566mini

Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Paddi Chen





D.1 -26dB Bandwidth

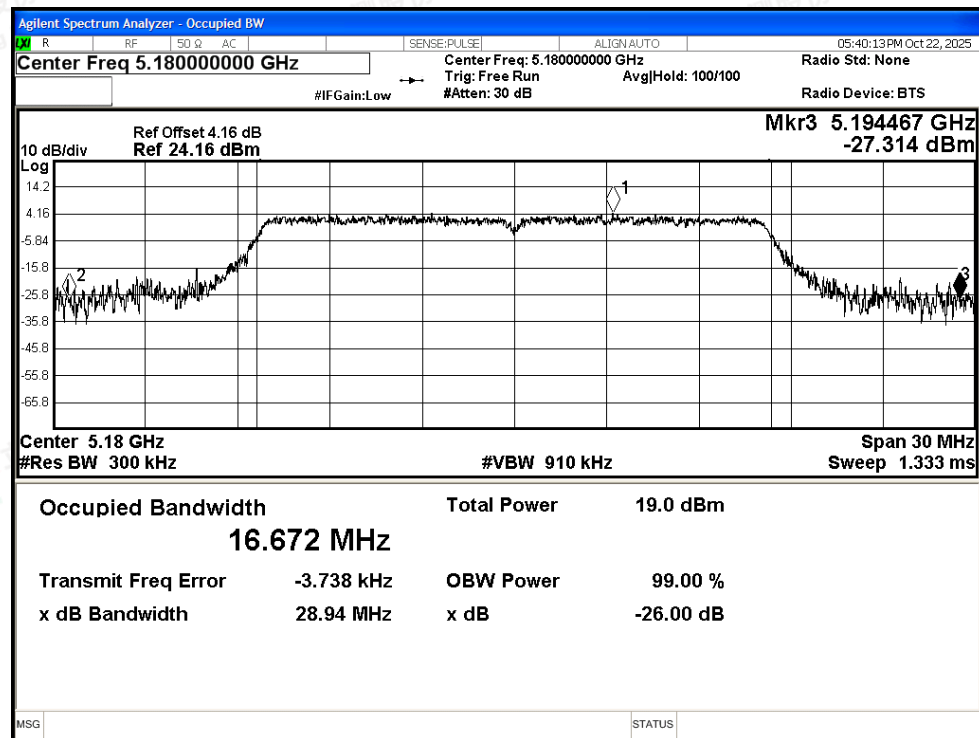
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	28.942	---	Pass
NVNT	a	5200	Ant1	24.704	---	Pass
NVNT	a	5240	Ant1	25.994	---	Pass
NVNT	n20	5180	Ant1	27.389	---	Pass
NVNT	n20	5200	Ant1	28.802	---	Pass
NVNT	n20	5240	Ant1	28.024	---	Pass
NVNT	n40	5190	Ant1	44.358	---	Pass
NVNT	n40	5230	Ant1	46.11	---	Pass



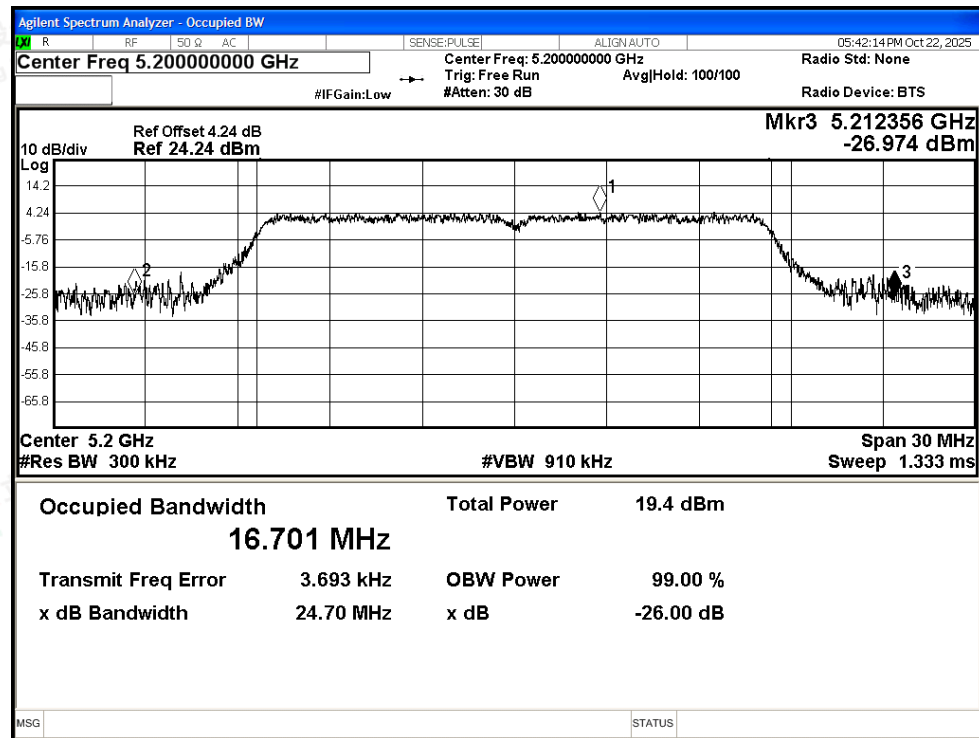


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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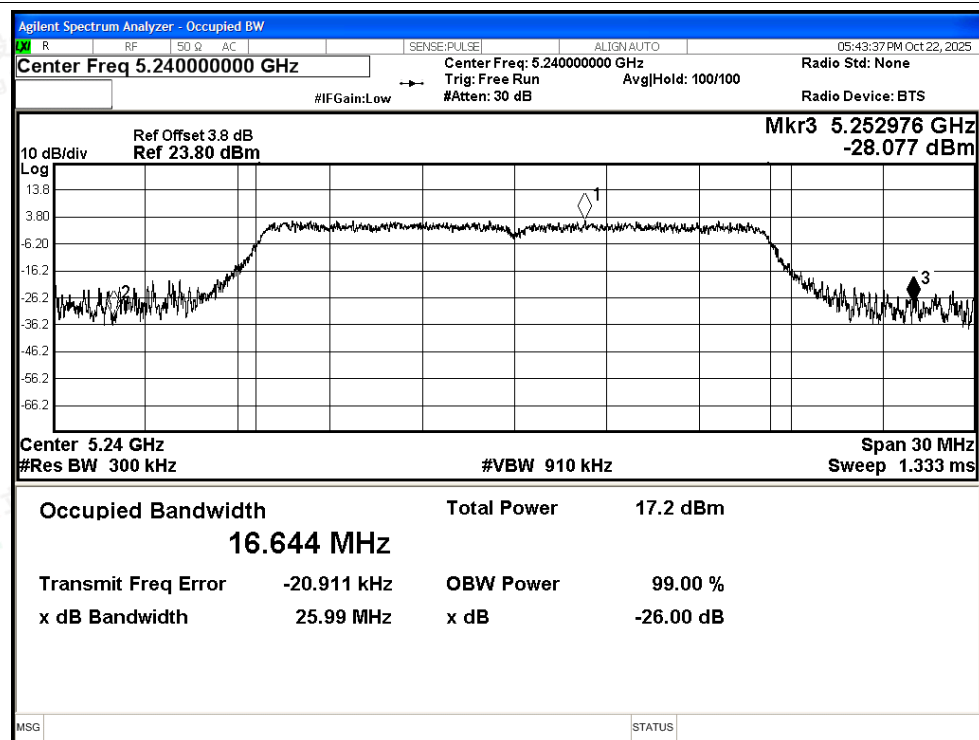
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

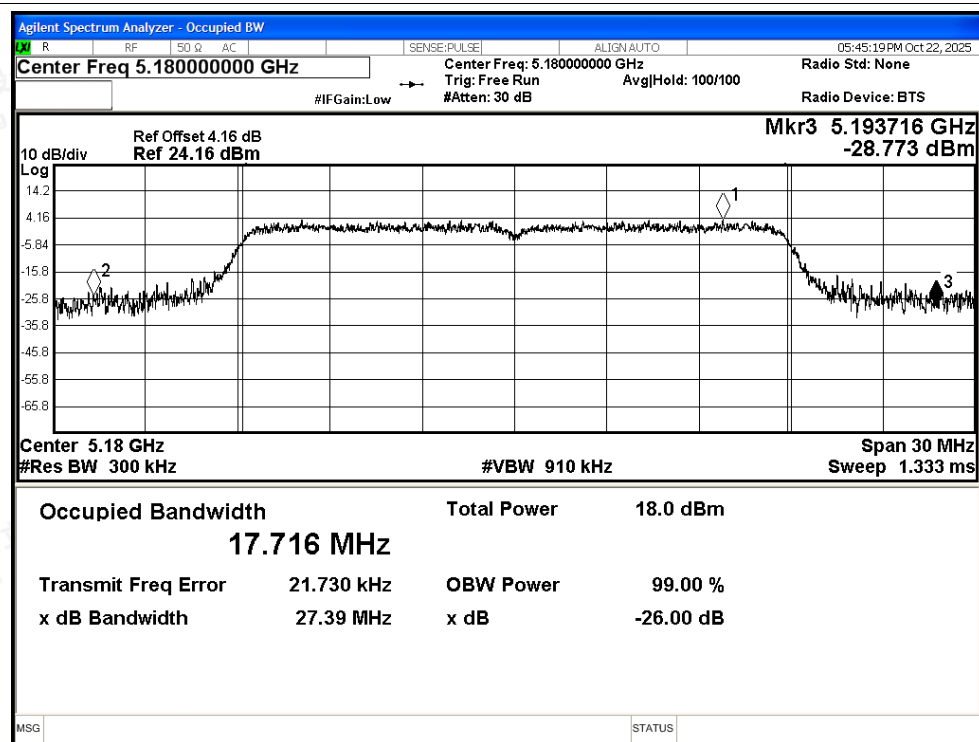
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

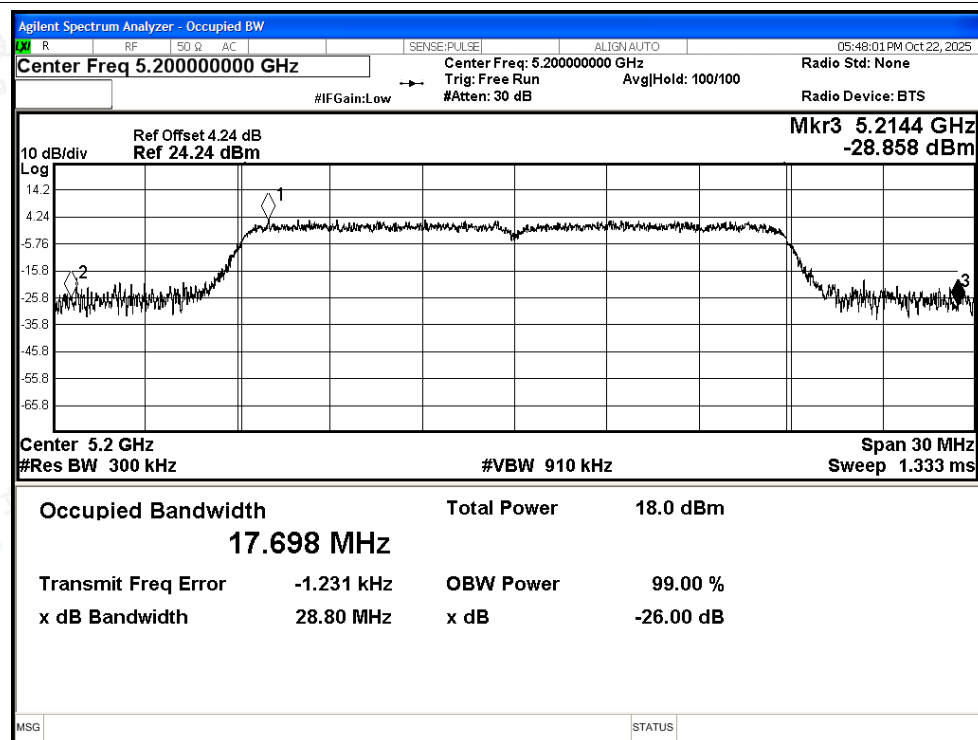
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

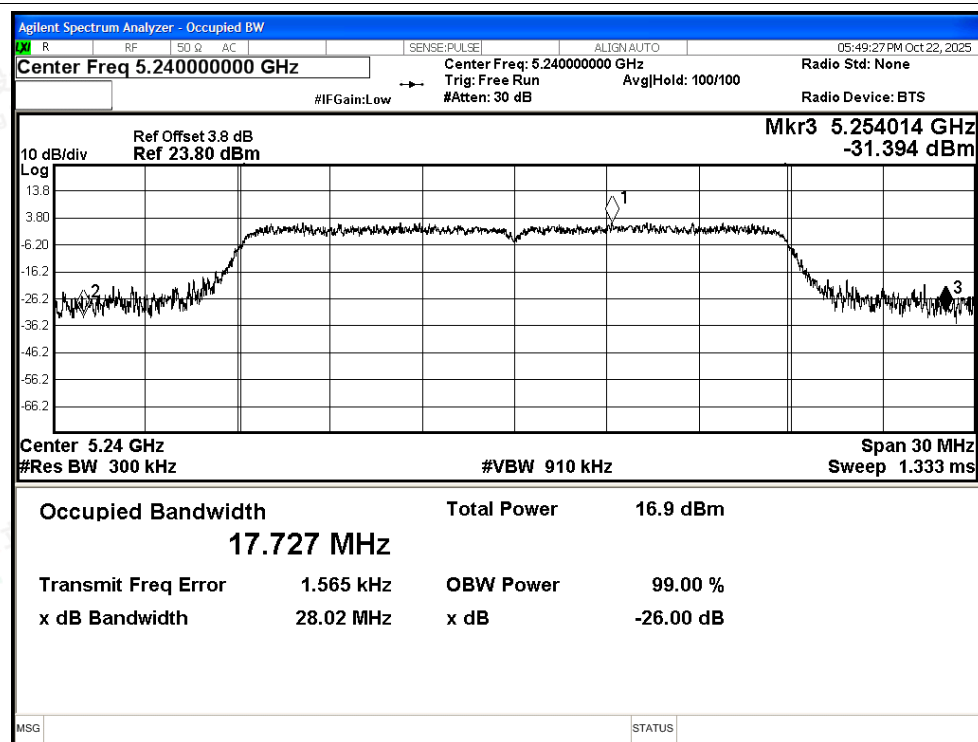
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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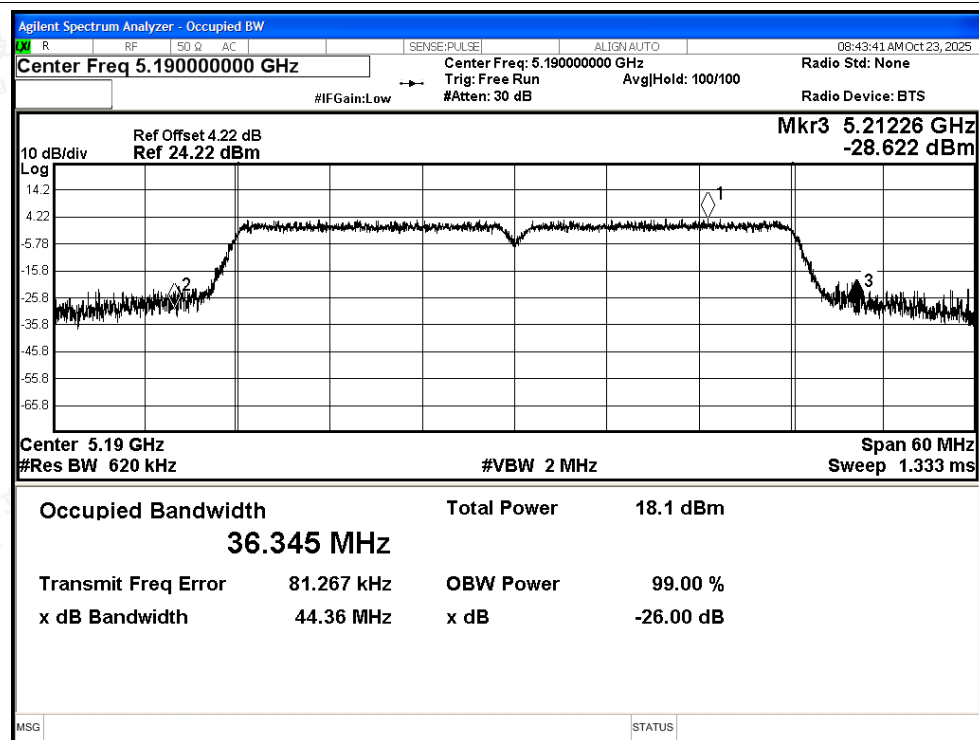
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

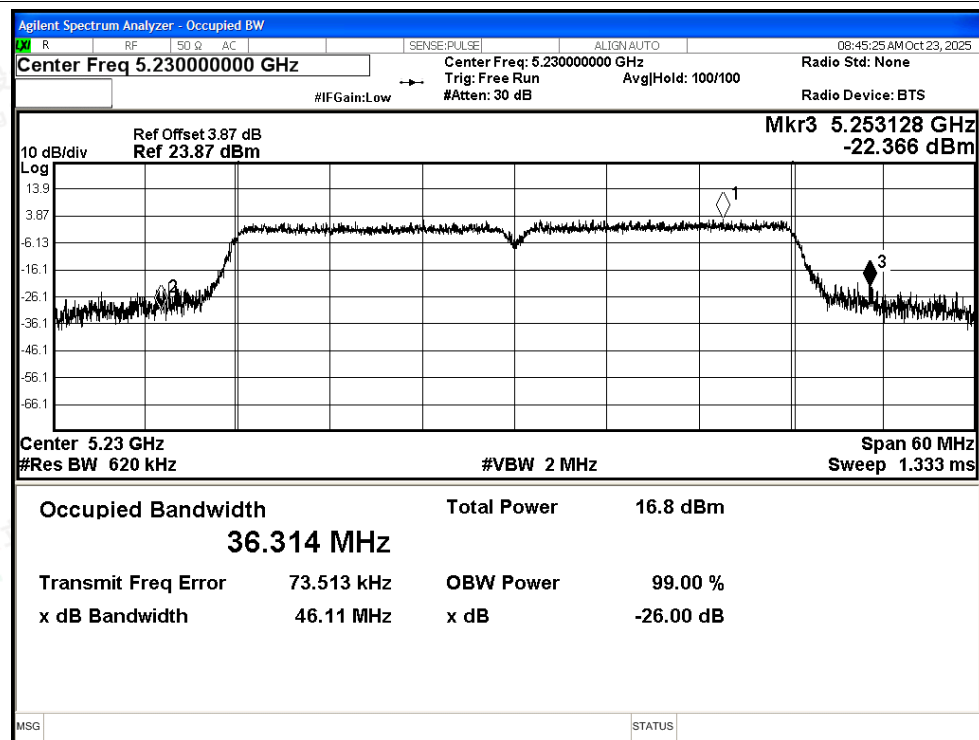
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz 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	5180	Ant1	13.27	0.24	13.51	24	Pass
NVNT	a	5200	Ant1	13.71	0.24	13.95	24	Pass
NVNT	a	5240	Ant1	11.57	0.24	11.81	24	Pass
NVNT	n20	5180	Ant1	12.46	0.12	12.58	24	Pass
NVNT	n20	5200	Ant1	12.46	0.12	12.58	24	Pass
NVNT	n20	5240	Ant1	11.36	0.12	11.48	24	Pass
NVNT	n40	5190	Ant1	11.64	0.23	11.87	24	Pass
NVNT	n40	5230	Ant1	10.29	0.24	10.53	24	Pass





D.3 Maximum Power Spectral Density Level

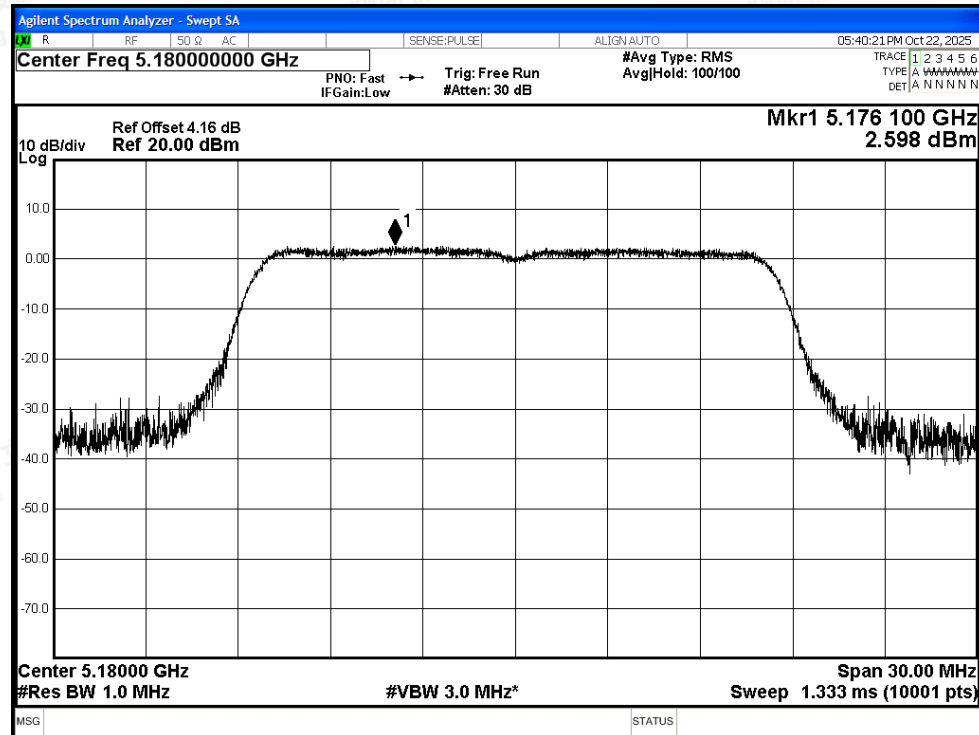
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	2.6	0.24	2.84	11	Pass
NVNT	a	5200	Ant1	3.17	0.24	3.41	11	Pass
NVNT	a	5240	Ant1	1.48	0.24	1.72	11	Pass
NVNT	n20	5180	Ant1	1.68	0.12	1.8	11	Pass
NVNT	n20	5200	Ant1	1.62	0.12	1.74	11	Pass
NVNT	n20	5240	Ant1	0.55	0.12	0.67	11	Pass
NVNT	n40	5190	Ant1	-1.97	0.23	-1.74	11	Pass
NVNT	n40	5230	Ant1	-2.96	0.24	-2.72	11	Pass



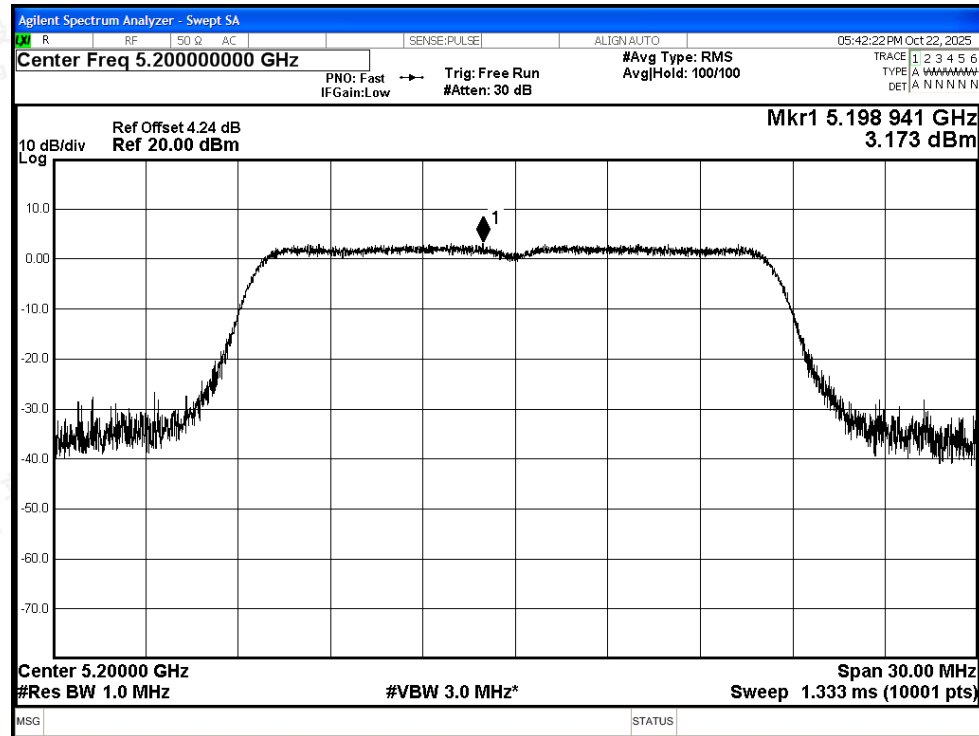


Test Graphs

PSD NVNT a 5180MHz Ant1

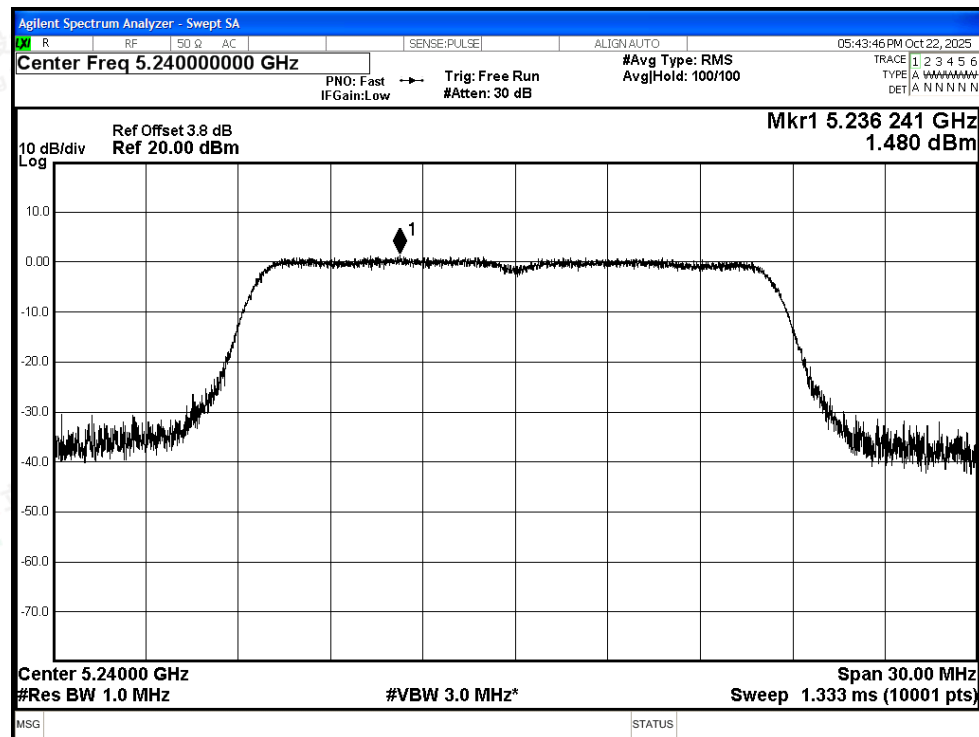


PSD NVNT a 5200MHz Ant1

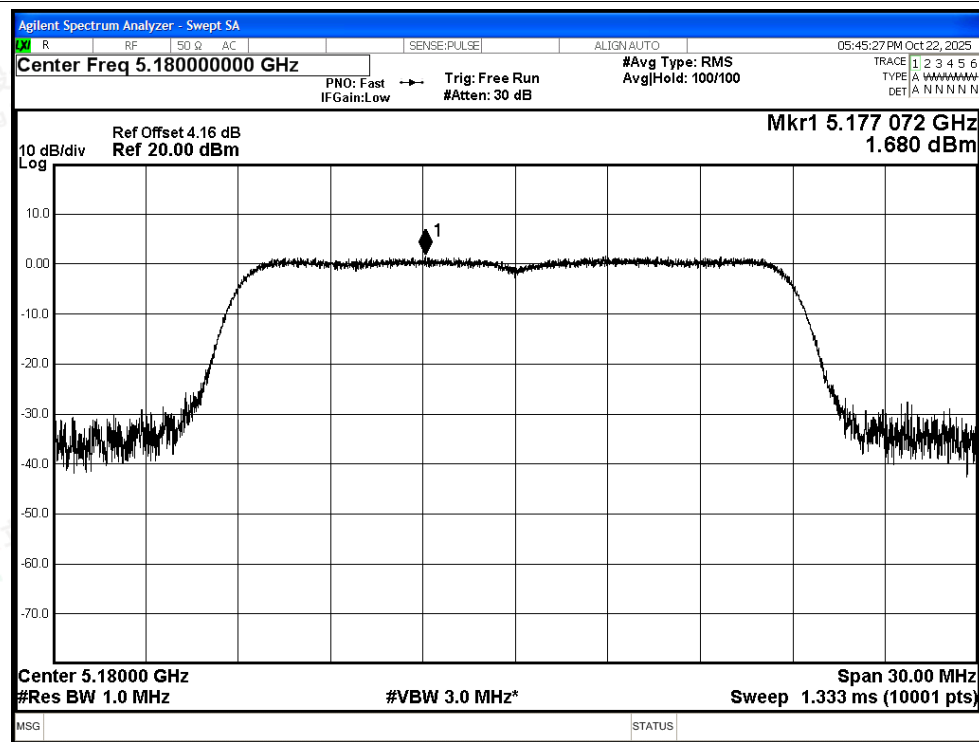


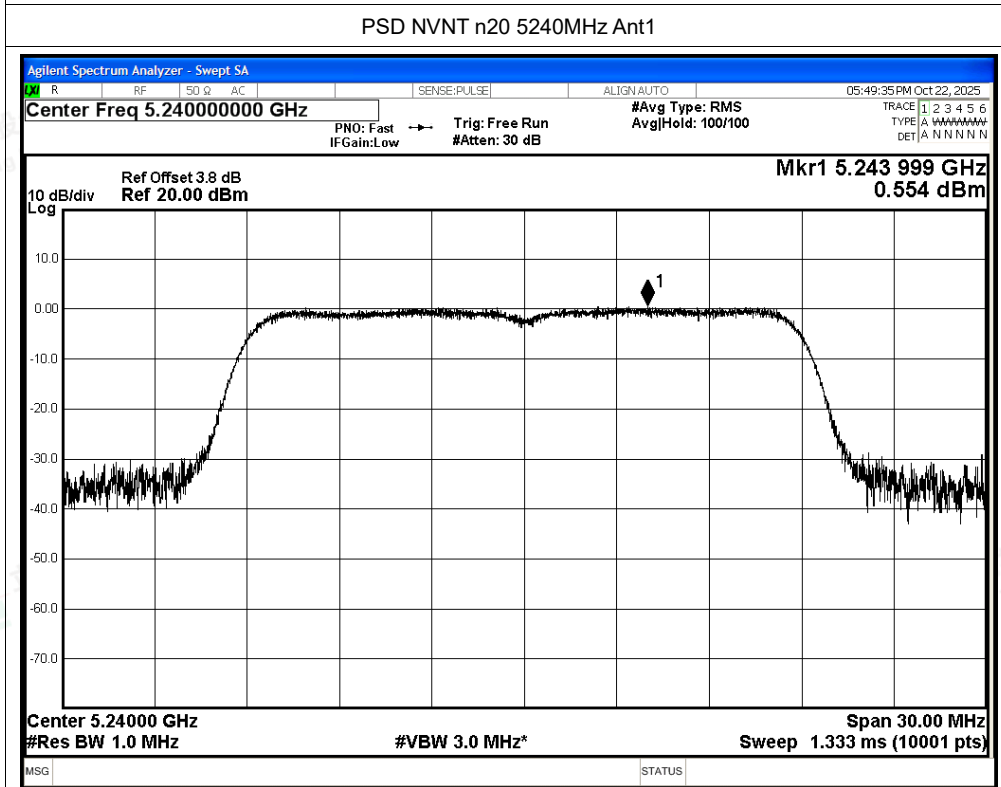
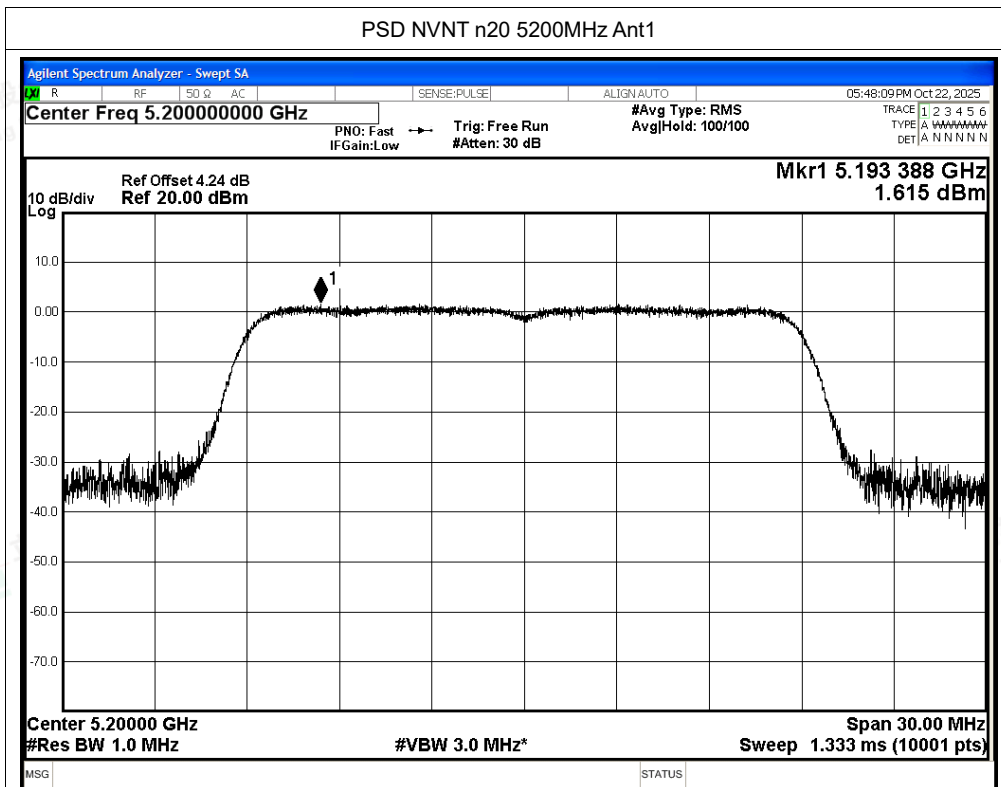


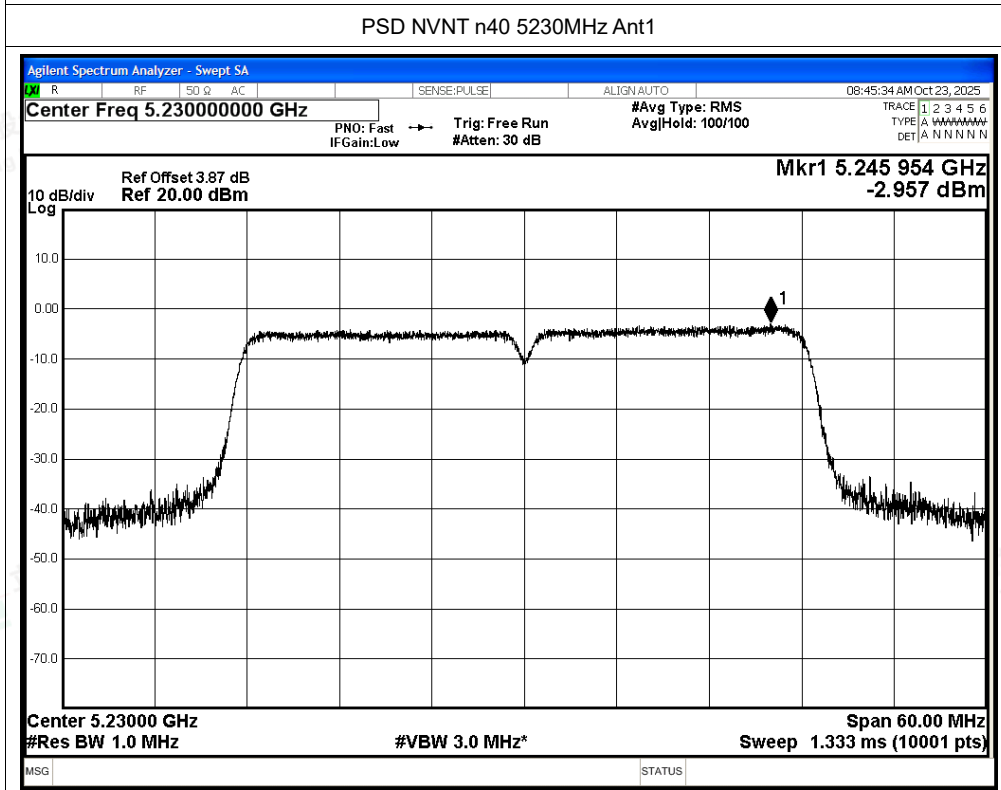
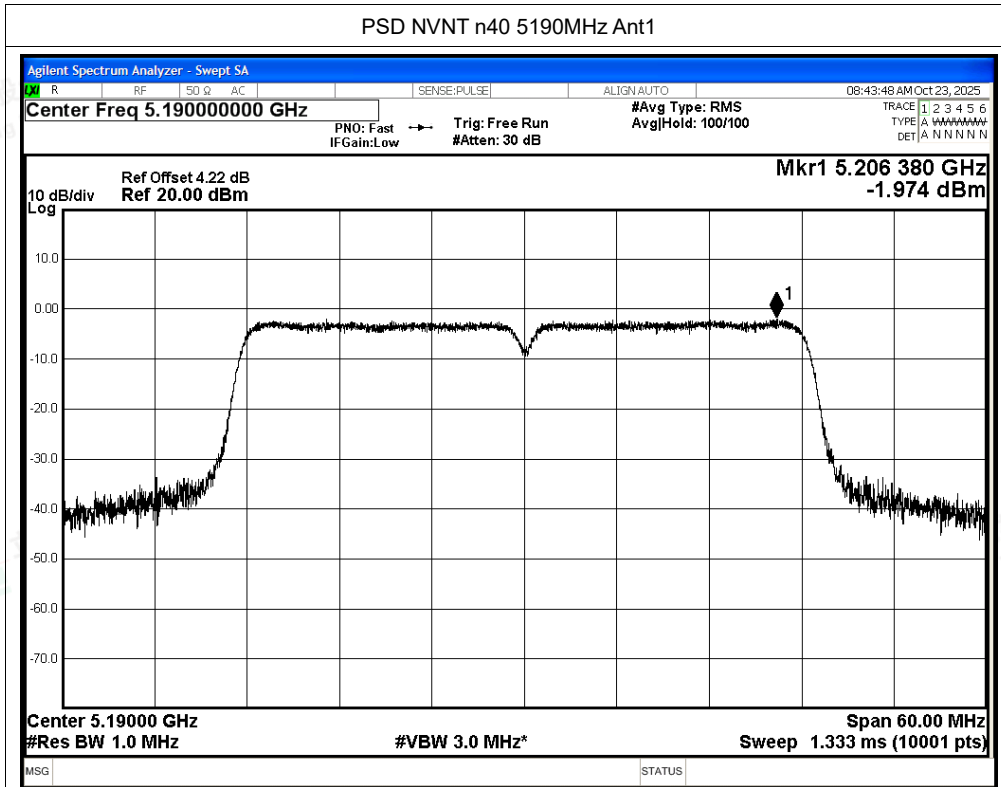
PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1









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	5180	Ant1	4500	-49.72	4.09	-	49.60	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-57.96	4.09	0.24	41.60	Average	54	Pass
NVNT	a	5180	Ant1	5084.5	-45.58	4.09	-	53.74	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.9	-54.93	4.09	0.24	44.63	Average	54	Pass
NVNT	a	5180	Ant1	5150	-46.15	4.09	-	53.17	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-55.31	4.09	0.24	44.25	Average	54	Pass
NVNT	a	5240	Ant1	5350	-50.01	4.09	-	49.31	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.99	4.09	0.24	42.57	Average	54	Pass
NVNT	a	5240	Ant1	5359.68	-45.98	4.09	-	53.34	Peak	68.2	Pass
NVNT	a	5240	Ant1	5440.56	-56.41	4.09	0.24	43.15	Average	54	Pass
NVNT	a	5240	Ant1	5460	-49.27	4.09	-	50.05	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.39	4.09	0.24	42.17	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-50.18	4.09	-	49.14	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-58.34	4.09	0.12	41.10	Average	54	Pass
NVNT	n20	5180	Ant1	5148.9	-44.03	4.09	-	55.29	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-54.86	4.09	0.12	44.58	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-45.9	4.09	-	53.42	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-55.08	4.09	0.12	44.36	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.97	4.09	-	49.35	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-57.89	4.09	0	41.43	Average	54	Pass
NVNT	n20	5240	Ant1	5351.76	-46.27	4.09	-	53.05	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5424.96	-56.26	4.09	0	43.06	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.43	4.09	-	49.89	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.15	4.09	0	42.17	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.45	4.09	-	48.87	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.59	4.09	0.23	41.96	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-38.64	4.09	-	60.68	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-54.45	4.09	0.23	45.10	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-38.64	4.09	-	60.68	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-54.45	4.09	0.23	45.10	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-49.31	4.09	-	50.01	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57	4.09	0.24	42.56	Average	54	Pass
NVNT	n40	5230	Ant1	5443.26	-46.18	4.09	-	53.14	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5419.5	-56.27	4.09	0.24	43.29	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-48.46	4.09	-	50.86	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.15	4.09	0.24	42.41	Average	54	Pass



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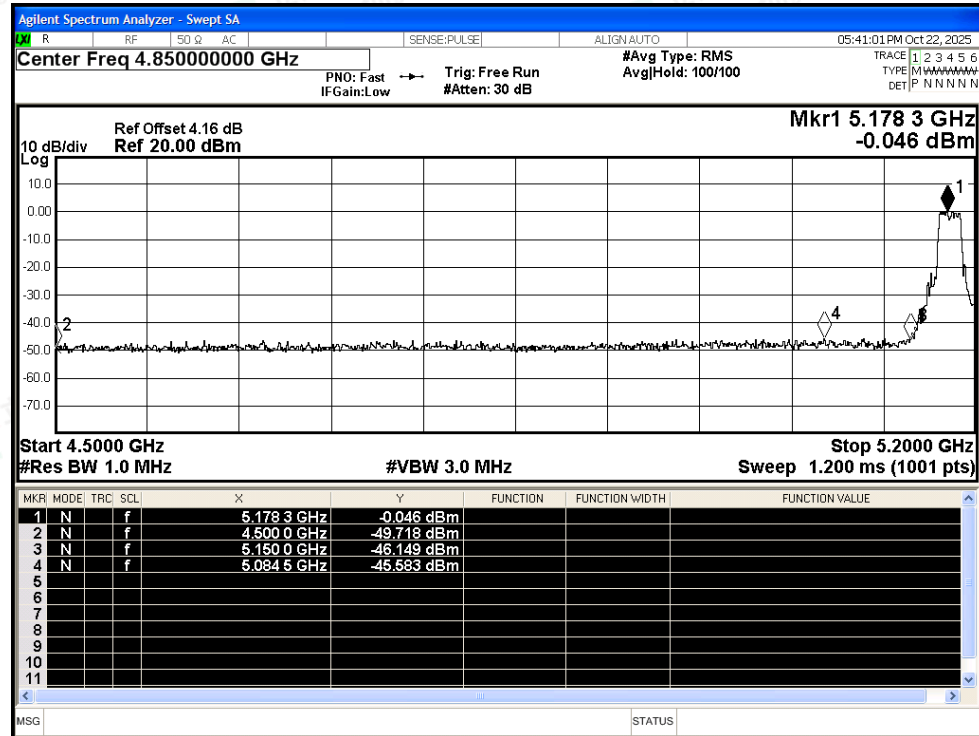
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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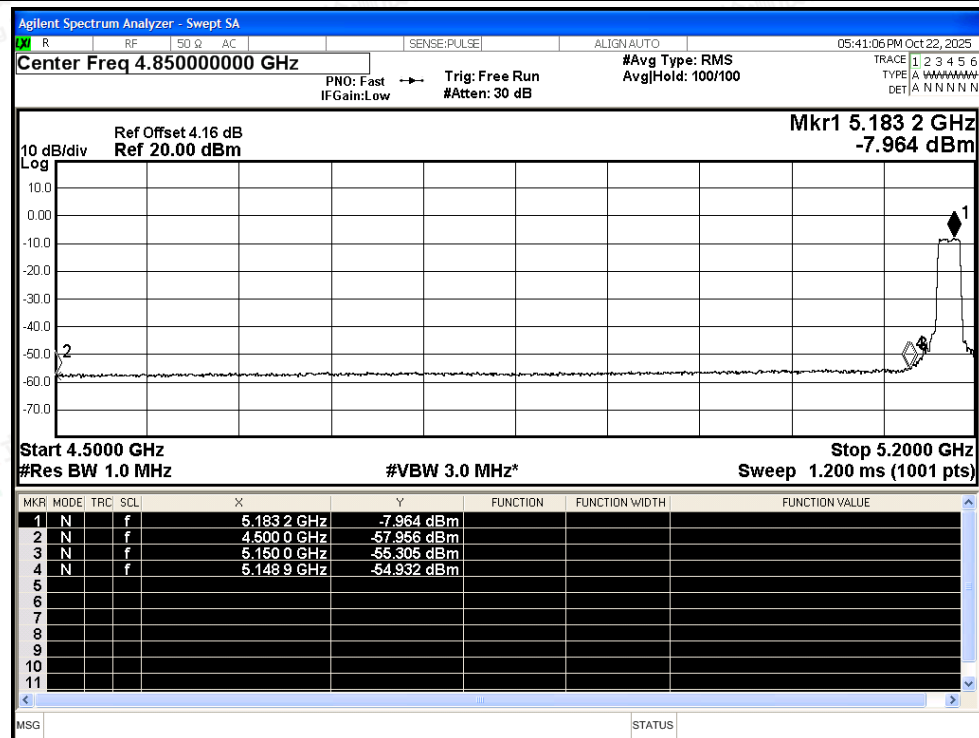


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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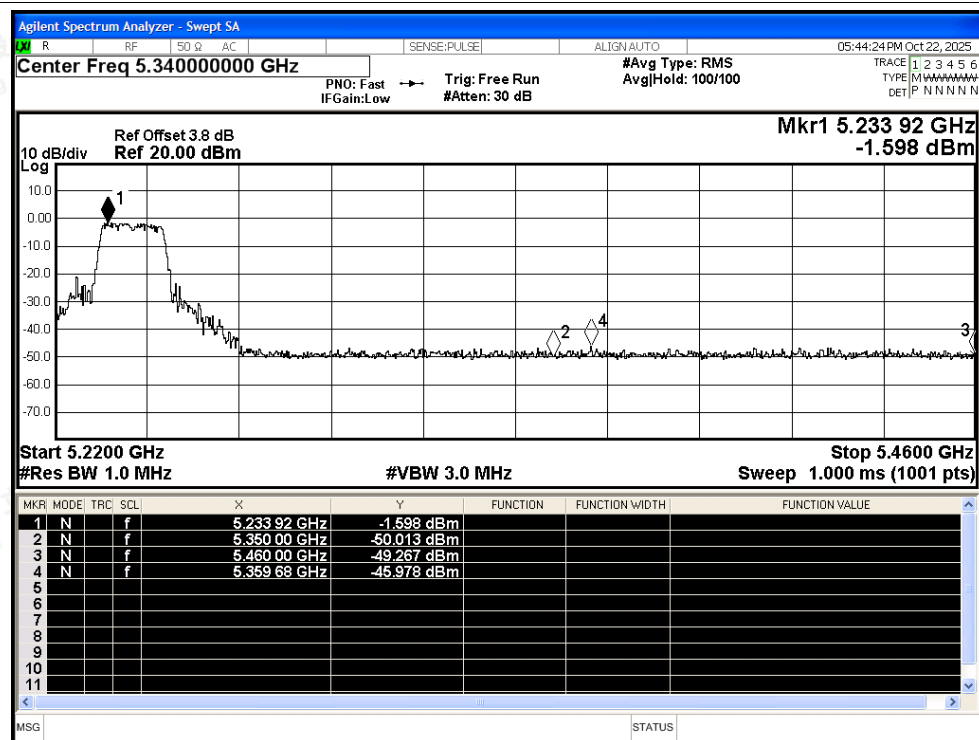
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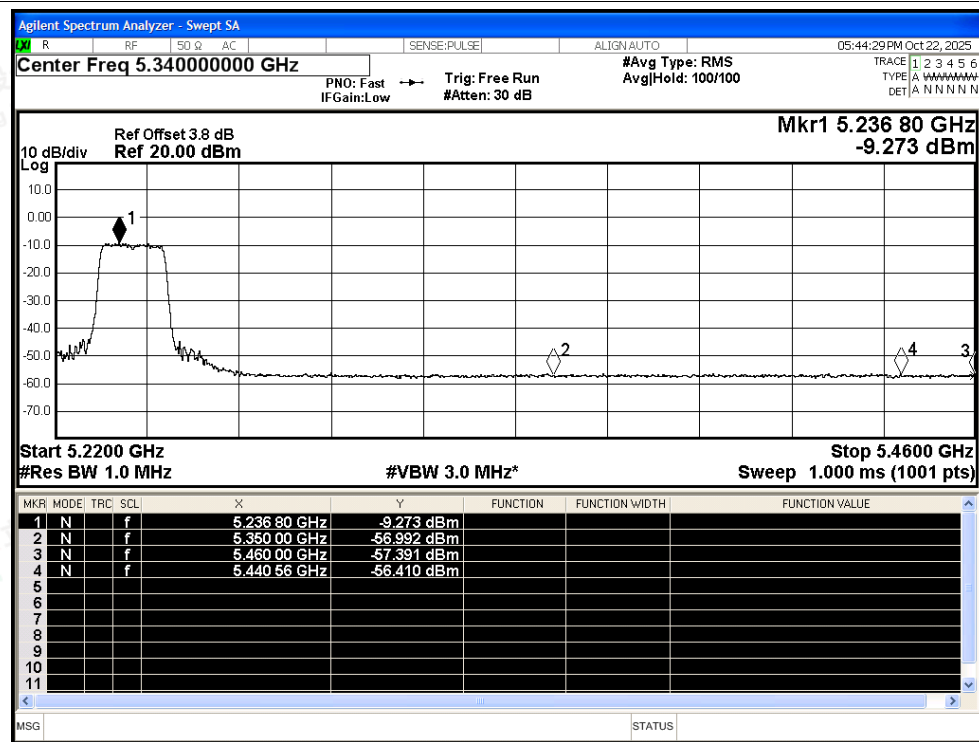
Scan code to check authenticity



Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



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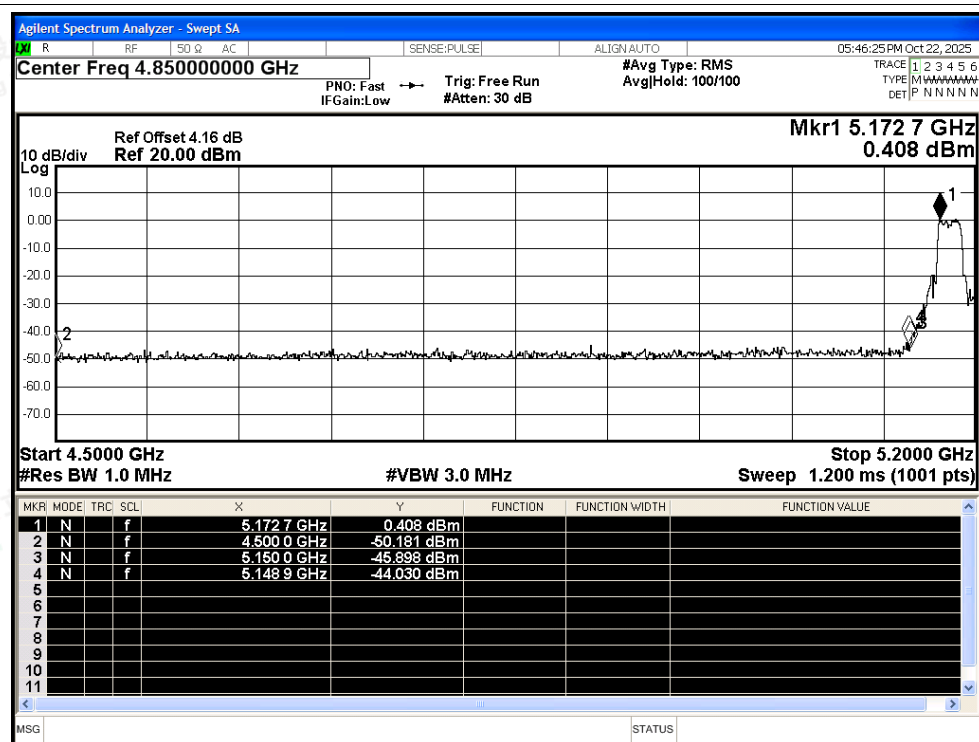
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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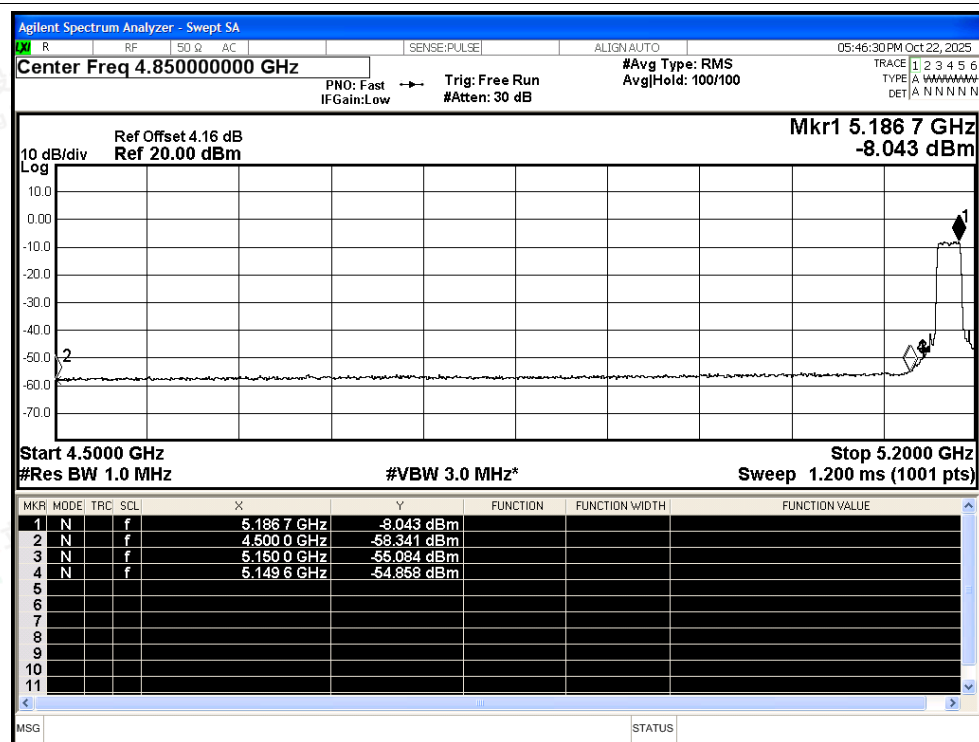
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

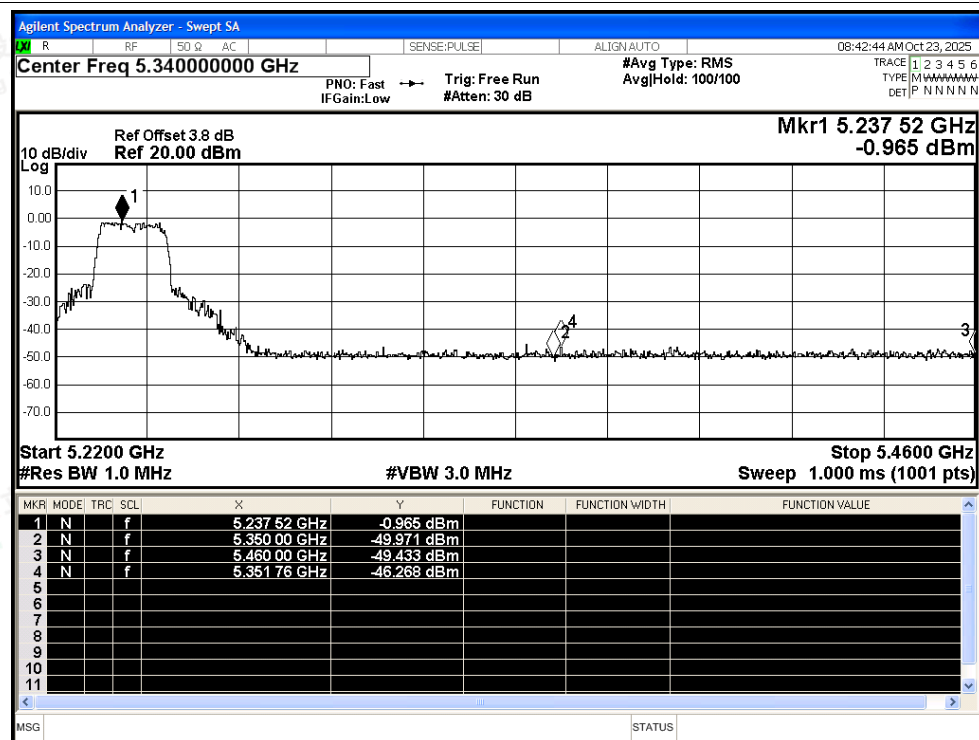
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

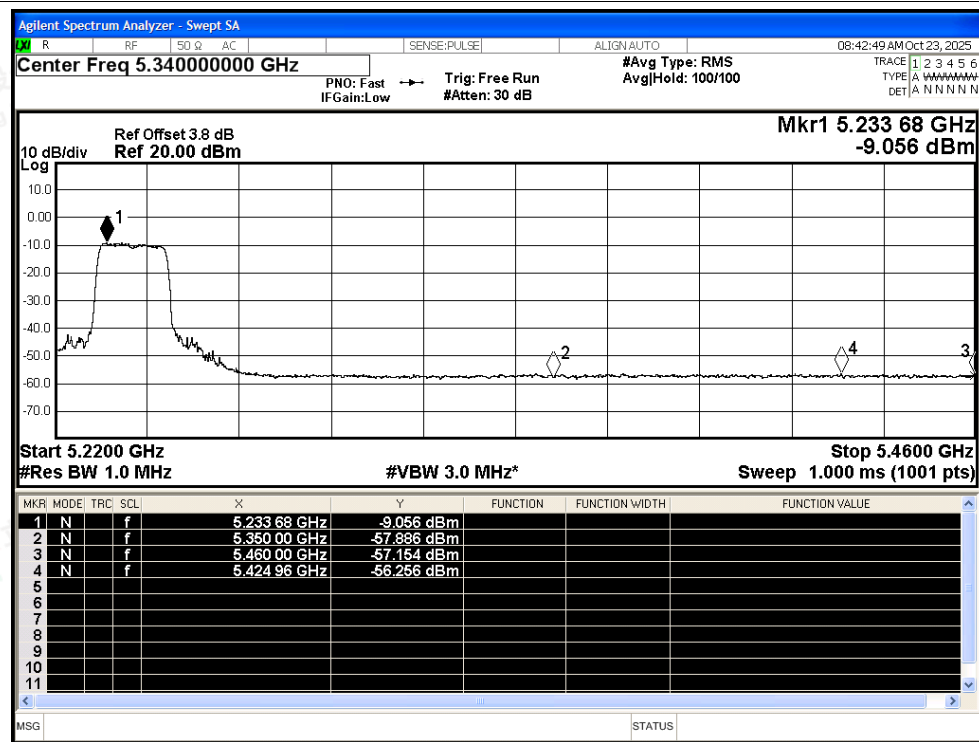
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

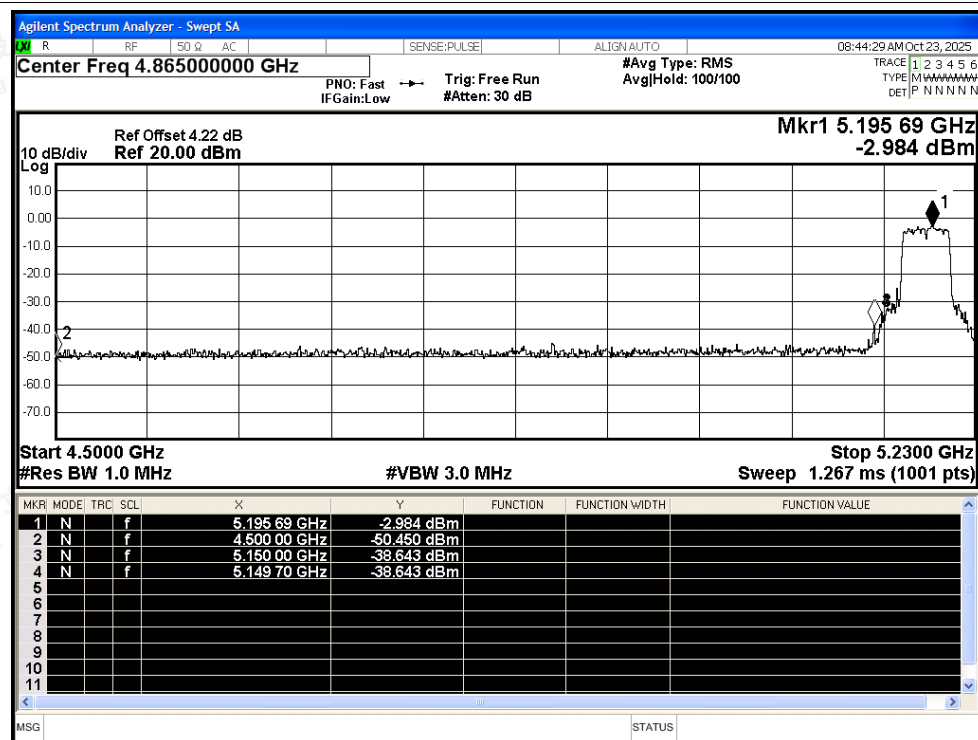
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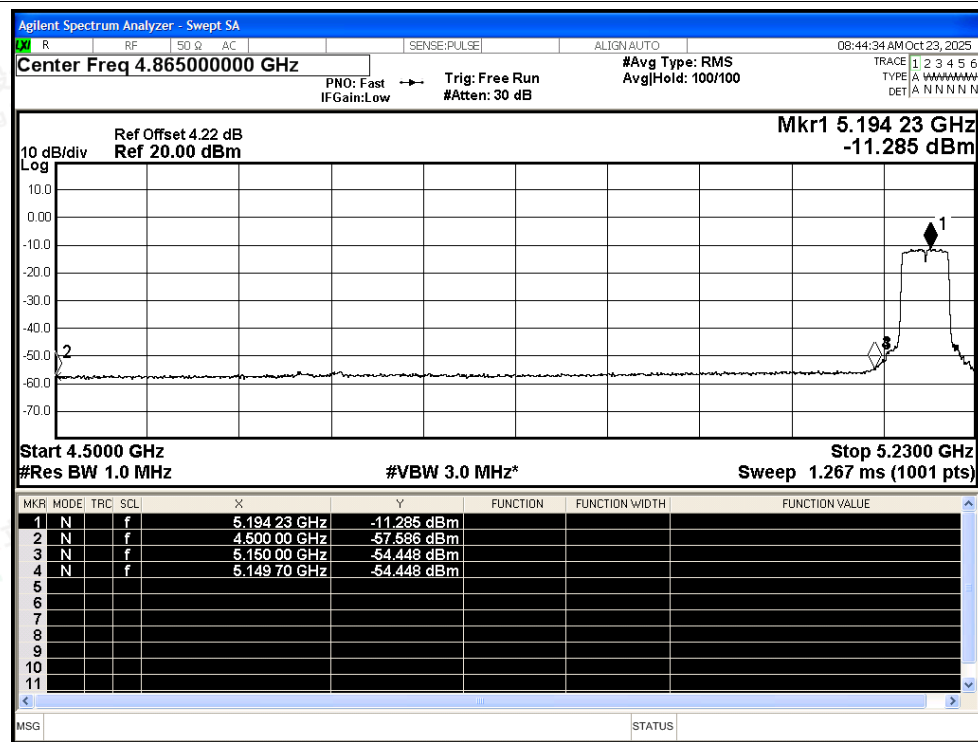
Scan code to check authenticity



Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



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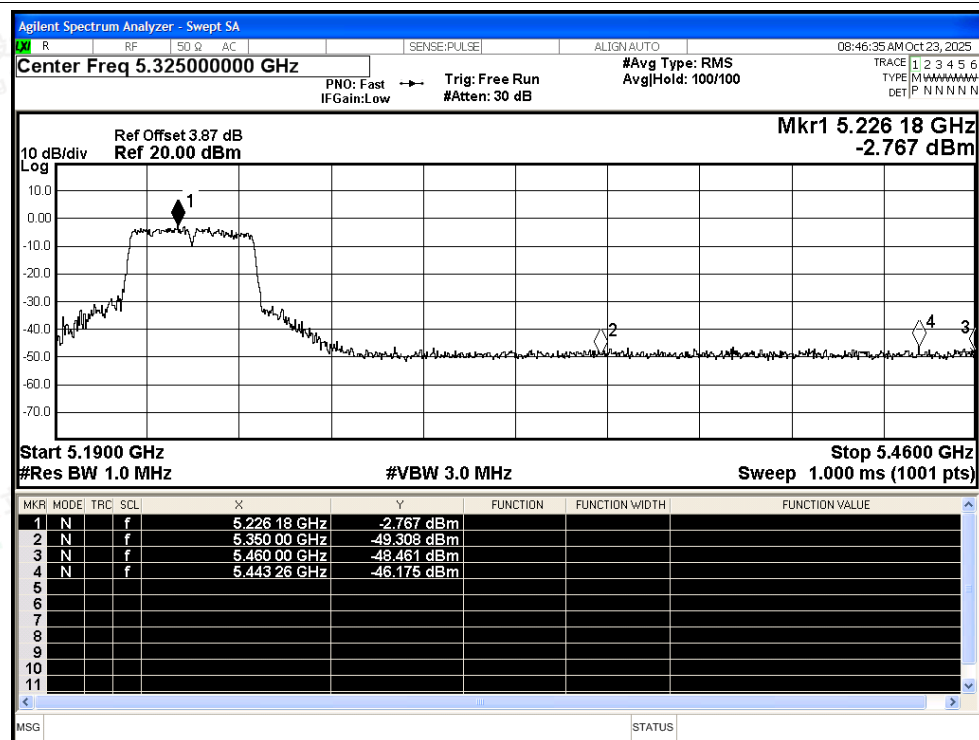
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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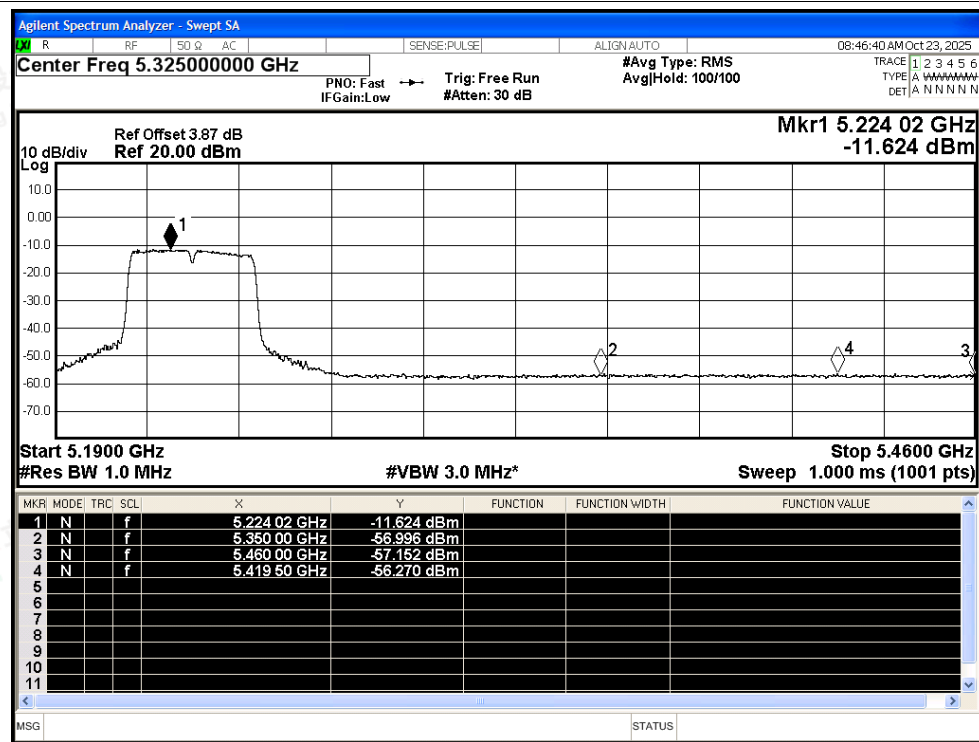
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Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



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D.5 Frequency Stability

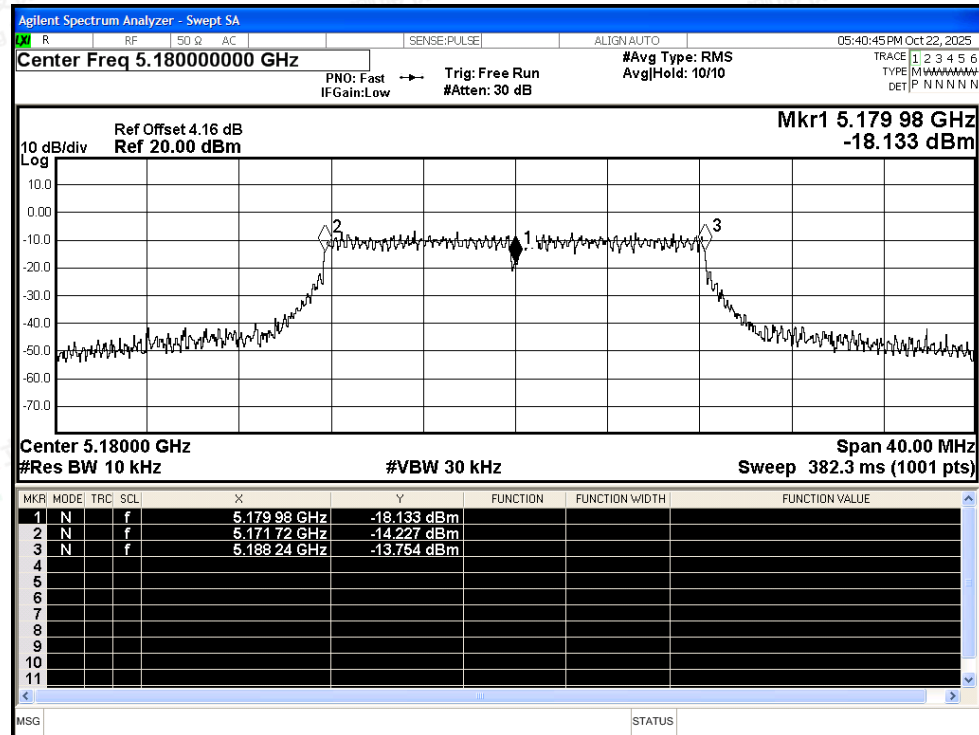
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
NVNT	n20	5180	Ant1	5180	0	0	25	Pass
NVNT	n20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



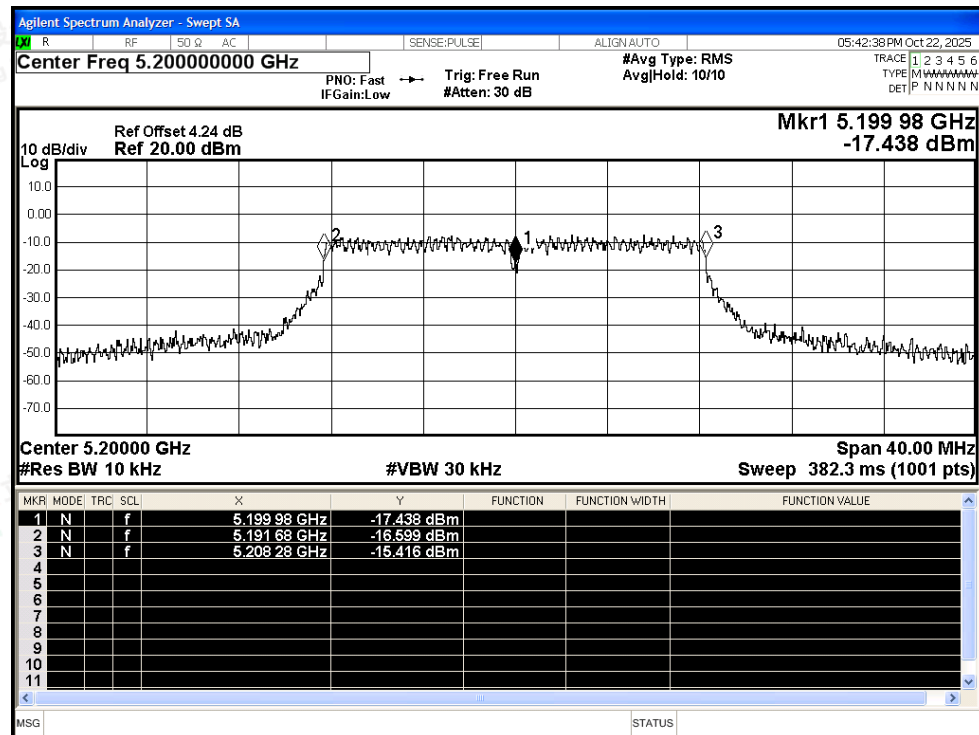


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1



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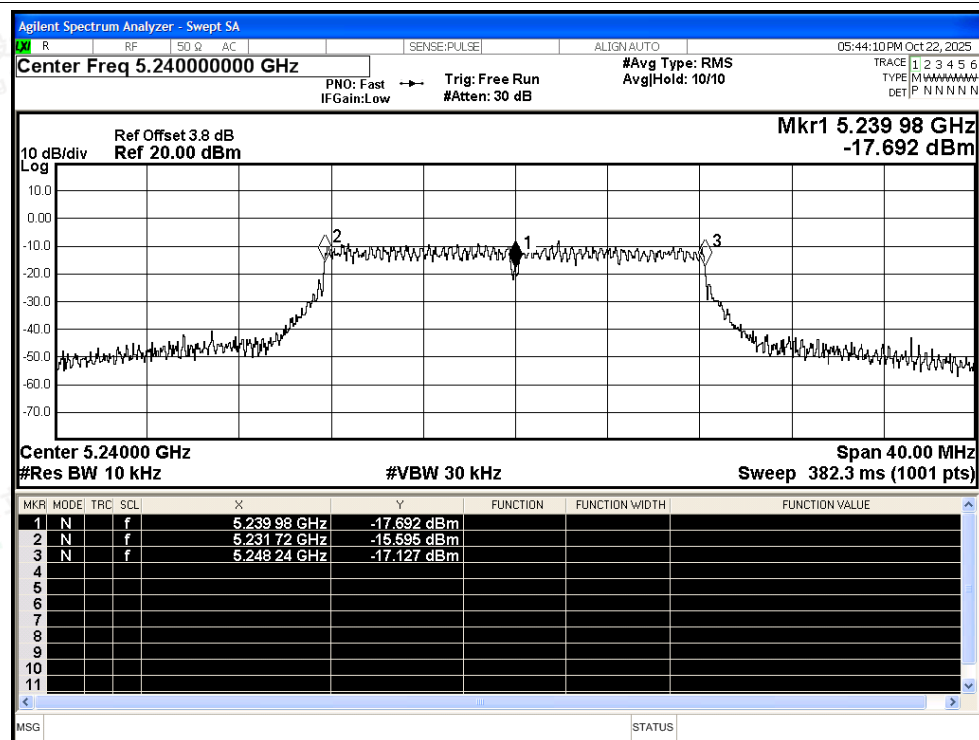
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

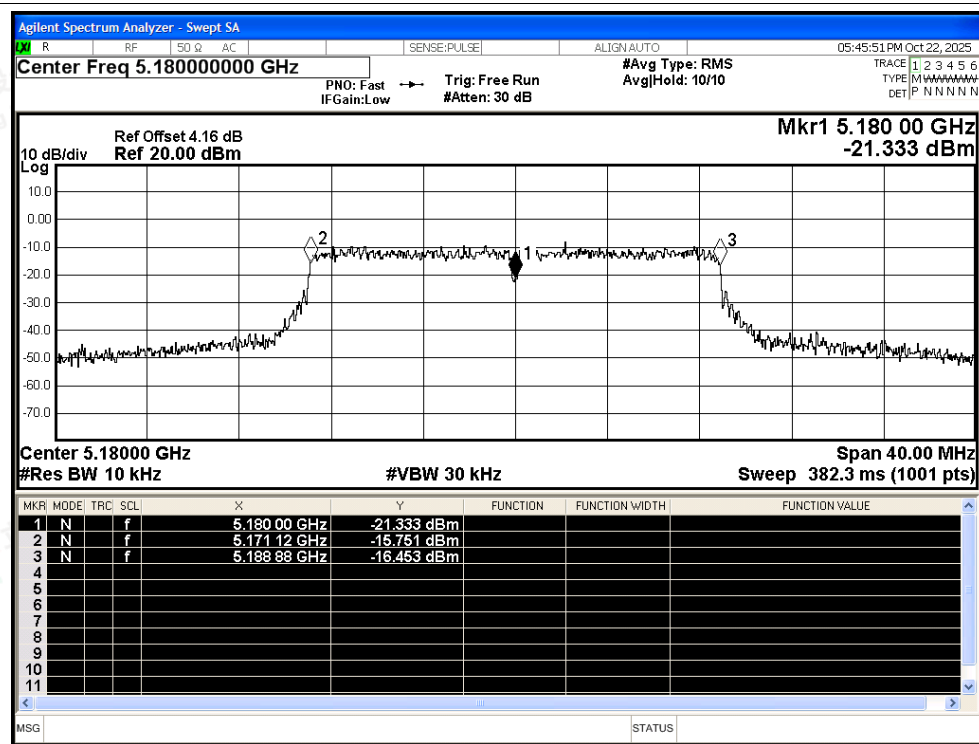
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Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1



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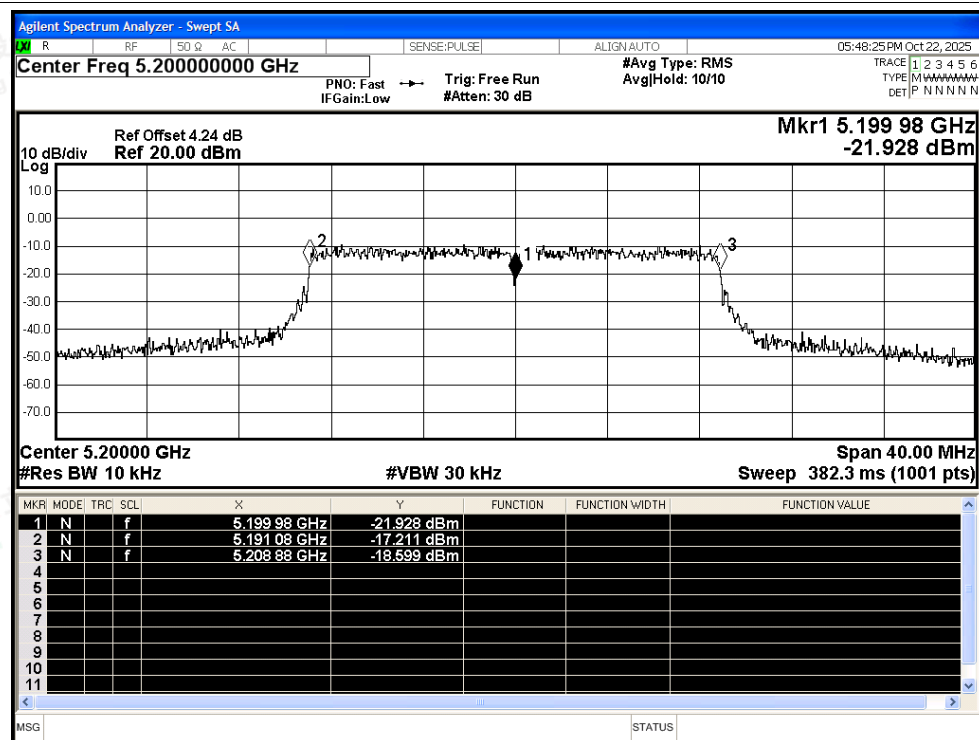
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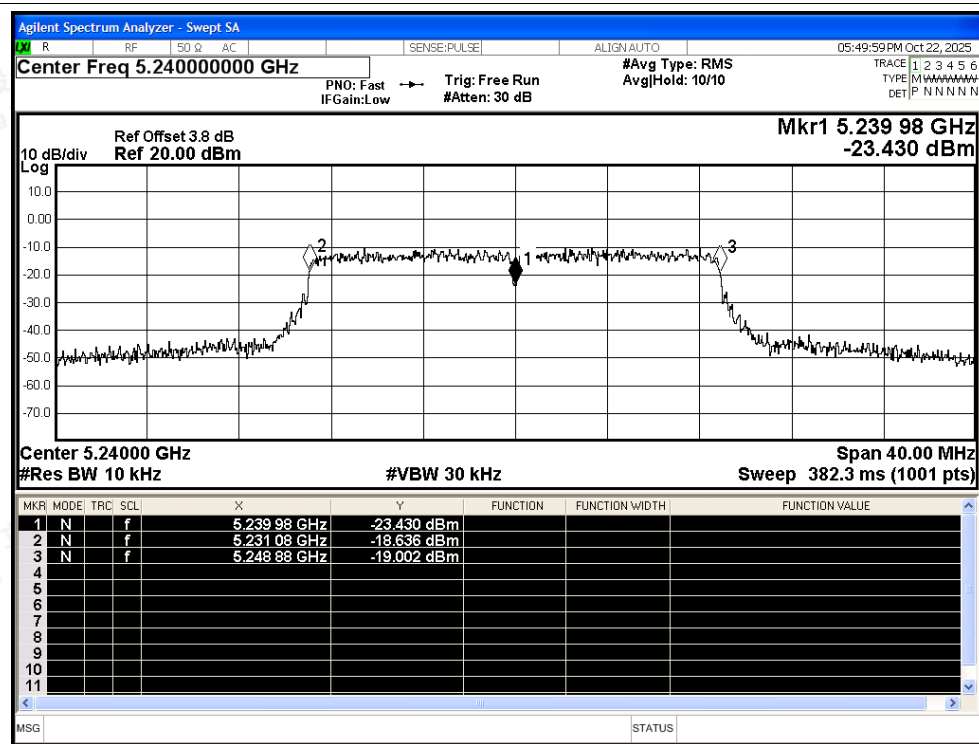
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Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



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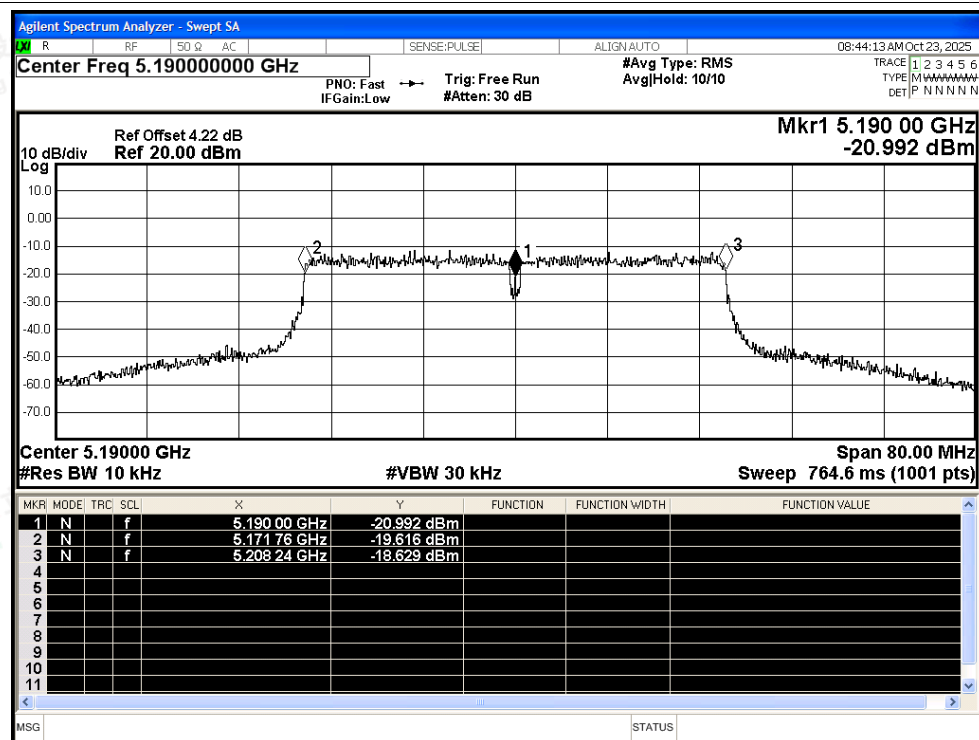
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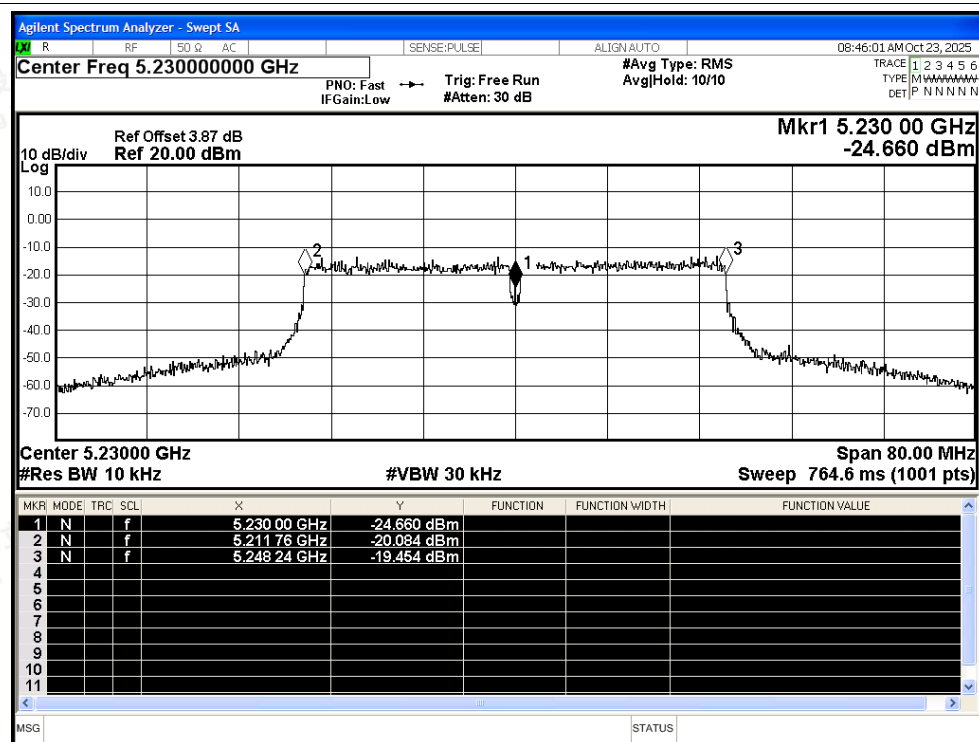
Scan code to check authenticity



Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



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D.6 Duty Cycle

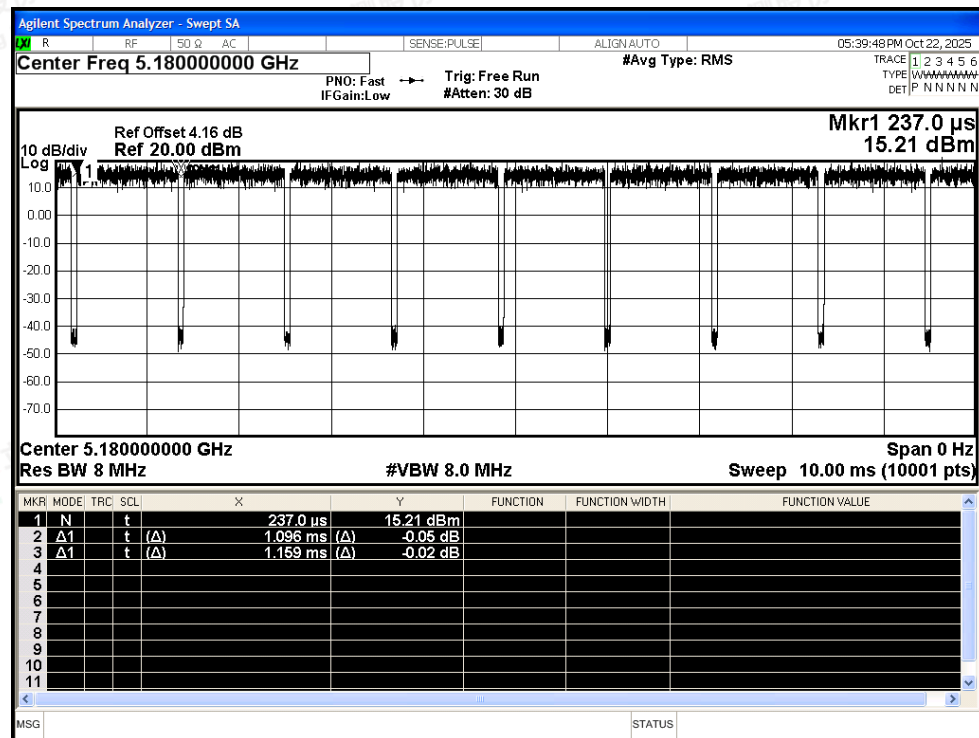
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5180	Ant1	94.56	0.24	0.91
NVNT	a	5200	Ant1	94.56	0.24	0.91
NVNT	a	5240	Ant1	94.65	0.24	0.91
NVNT	n20	5180	Ant1	97.29	0.12	0.44
NVNT	n20	5200	Ant1	97.33	0.12	0.44
NVNT	n20	5240	Ant1	97.29	0.12	0.44
NVNT	n40	5190	Ant1	94.79	0.23	0.9
NVNT	n40	5230	Ant1	94.71	0.24	0.9



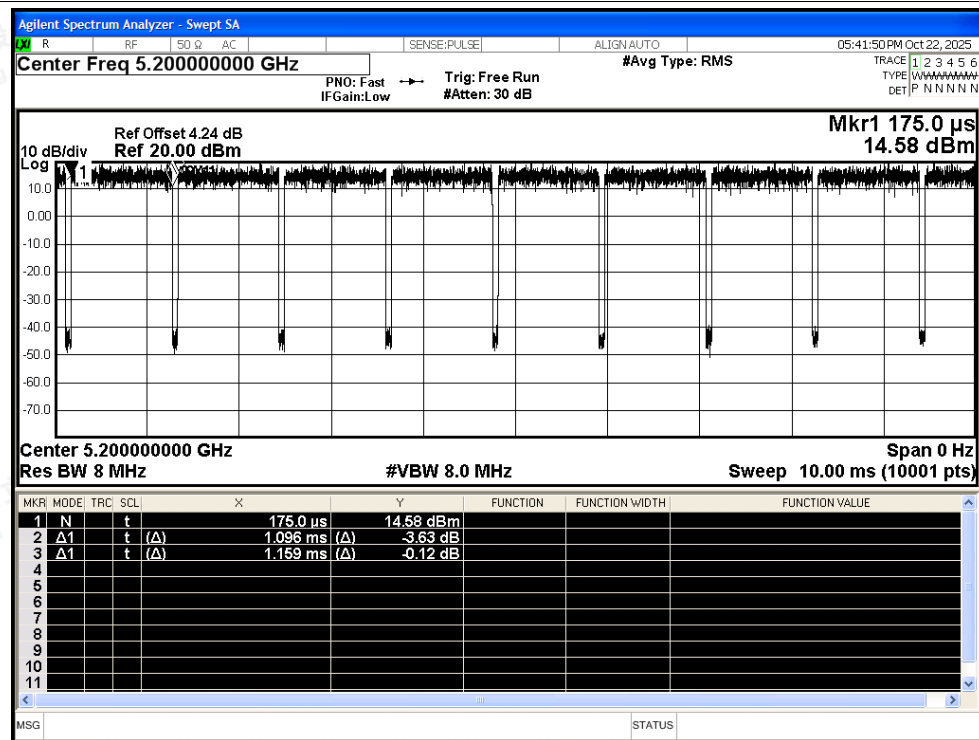


Test Graphs

Duty Cycle NVNT a 5180MHz Ant1



Duty Cycle NVNT a 5200MHz Ant1



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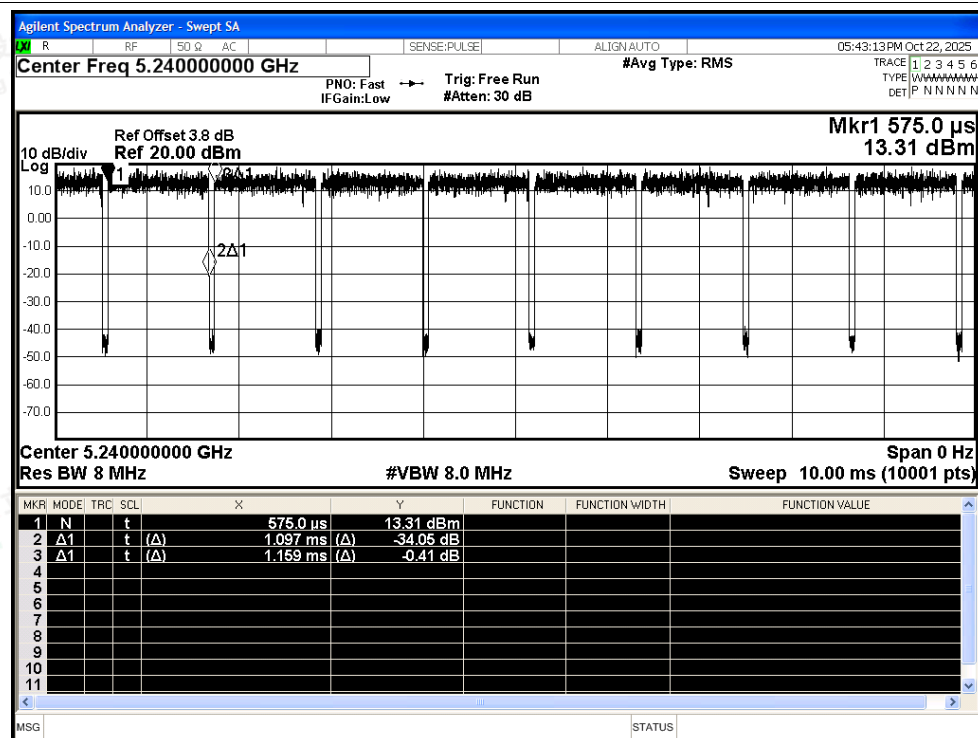
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

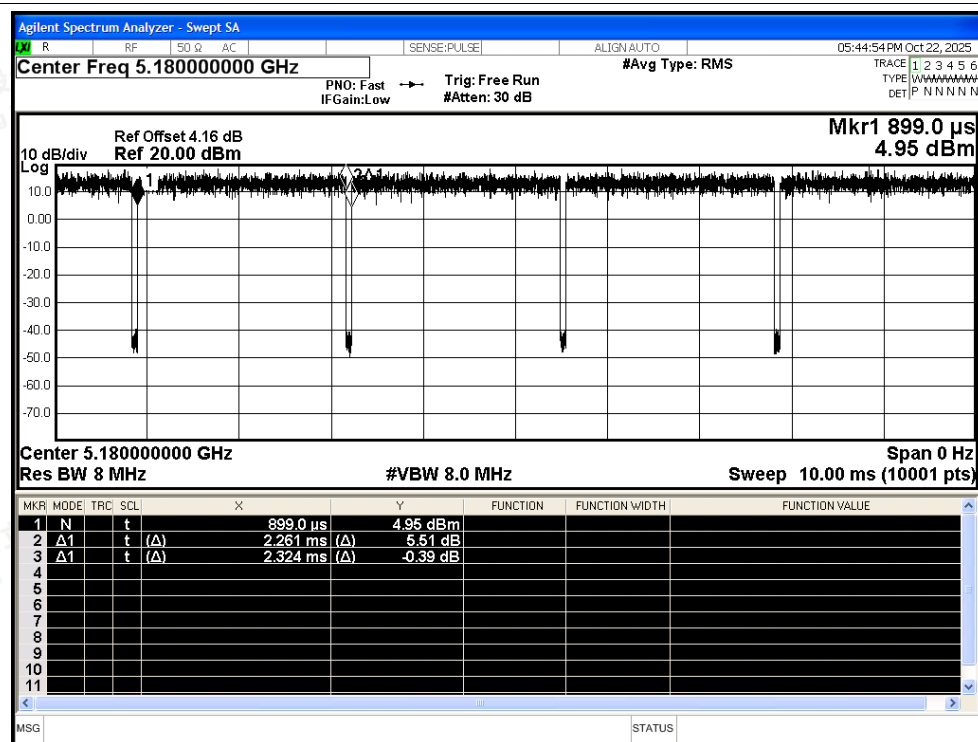
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Duty Cycle NVNT a 5240MHz Ant1



Duty Cycle NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

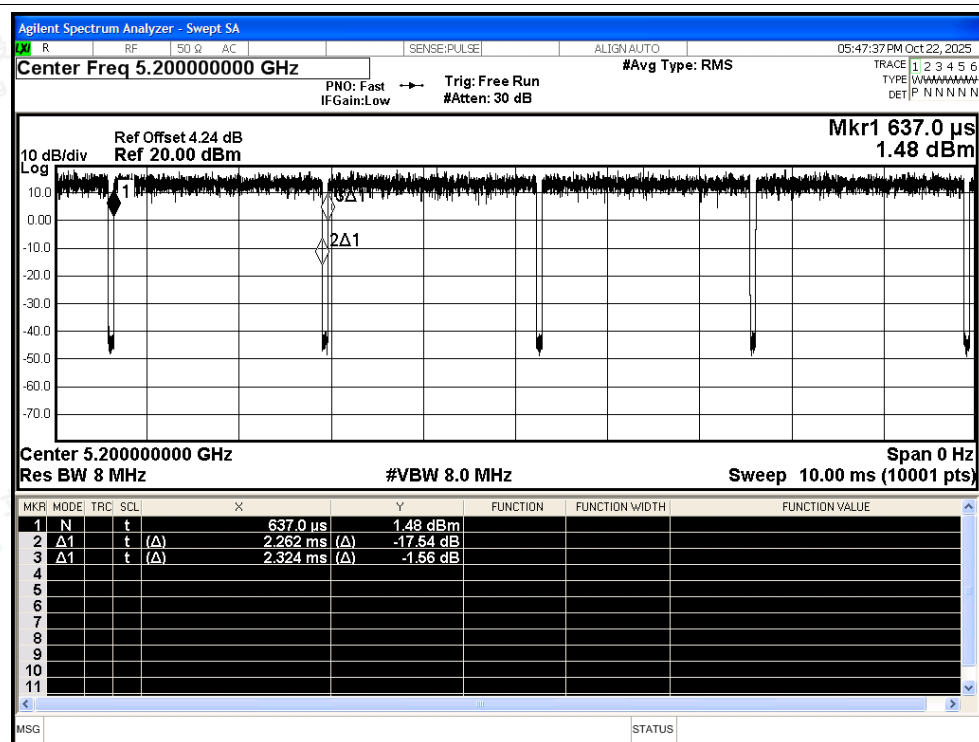
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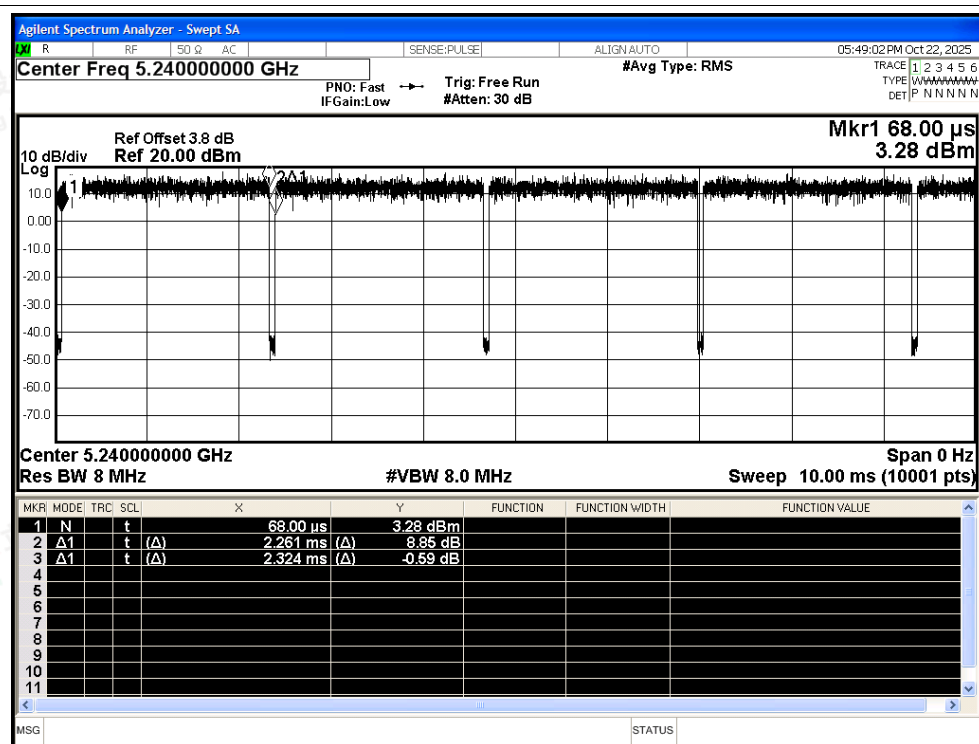
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Duty Cycle NVNT n20 5200MHz Ant1

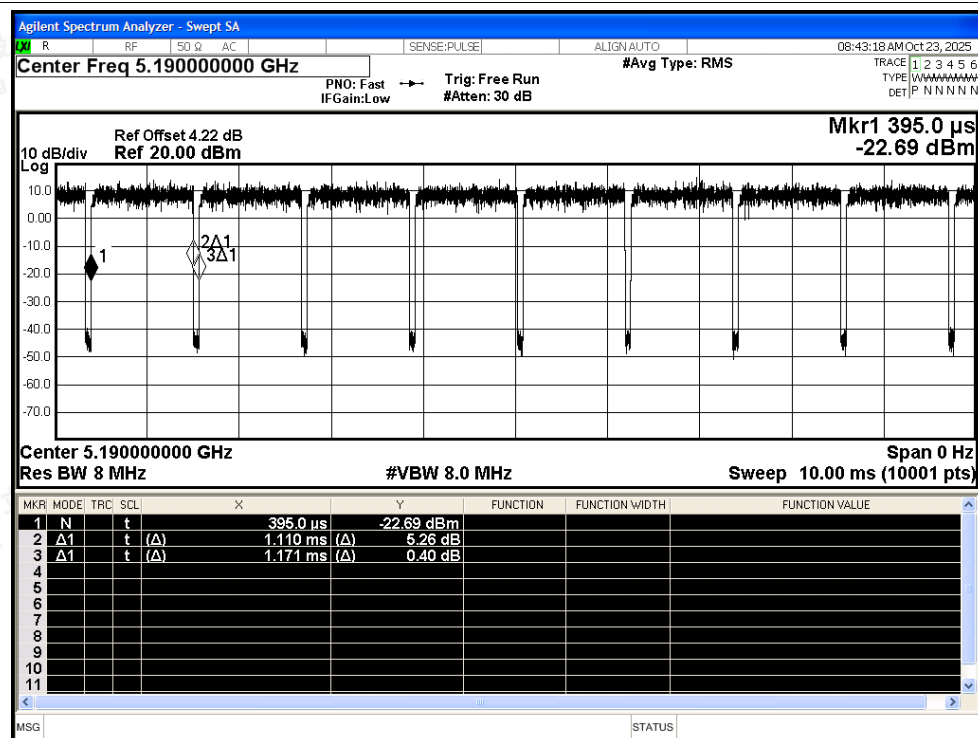


Duty Cycle NVNT n20 5240MHz Ant1

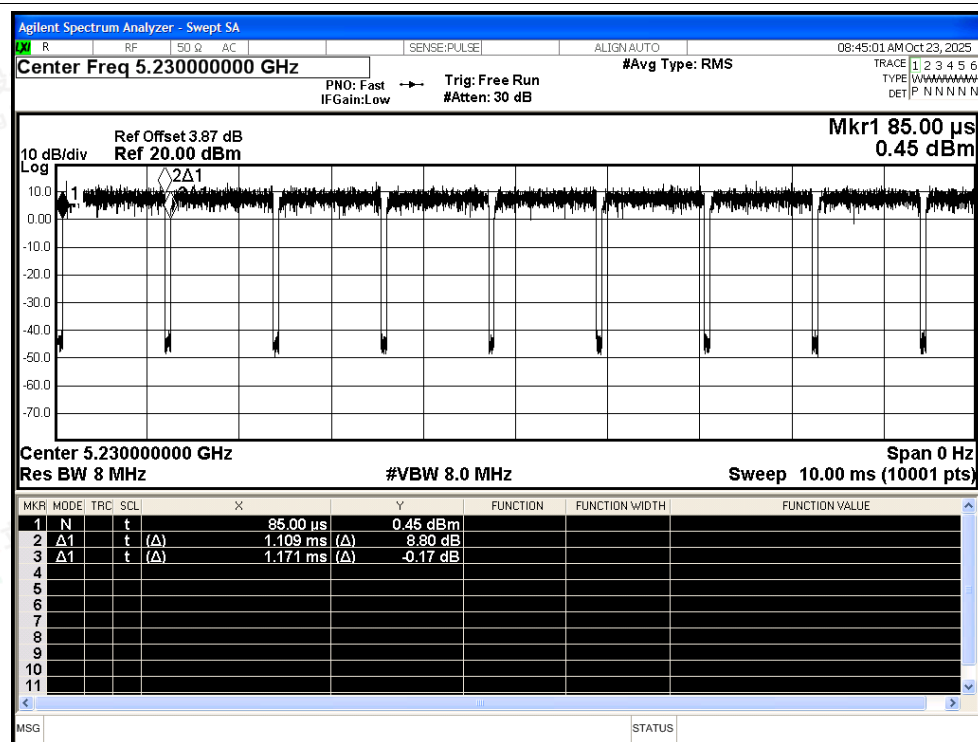




Duty Cycle NVNT n40 5190MHz Ant1



Duty Cycle NVNT n40 5230MHz Ant1



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