



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Film Cutting Machine

Test Model: PGPOD25

Environmental Conditions

Temperature:	23.1°C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Billy Yu
Supervised by:	Nick Peng



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D.1 -26dB Bandwidth

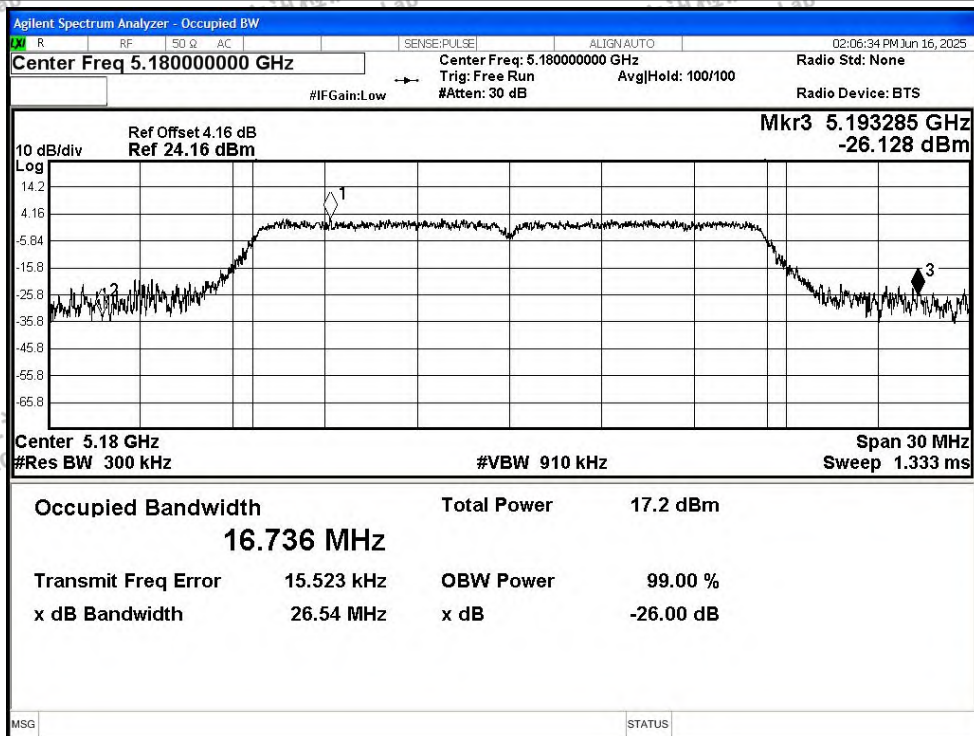
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	26.54	≥ 0.5	Pass
NVNT	a	5200	Ant1	26.399	≥ 0.5	Pass
NVNT	a	5240	Ant1	28.881	≥ 0.5	Pass
NVNT	n20	5180	Ant1	27.145	≥ 0.5	Pass
NVNT	n20	5200	Ant1	29.494	≥ 0.5	Pass
NVNT	n20	5240	Ant1	27.495	≥ 0.5	Pass
NVNT	n40	5190	Ant1	47.2	≥ 0.5	Pass
NVNT	n40	5230	Ant1	47.185	≥ 0.5	Pass
NVNT	ac20	5180	Ant1	27.494	≥ 0.5	Pass
NVNT	ac20	5200	Ant1	24.884	≥ 0.5	Pass
NVNT	ac20	5240	Ant1	28.579	≥ 0.5	Pass
NVNT	ac40	5190	Ant1	50.897	≥ 0.5	Pass
NVNT	ac40	5230	Ant1	44.687	≥ 0.5	Pass
NVNT	ac80	5210	Ant1	84.893	≥ 0.5	Pass



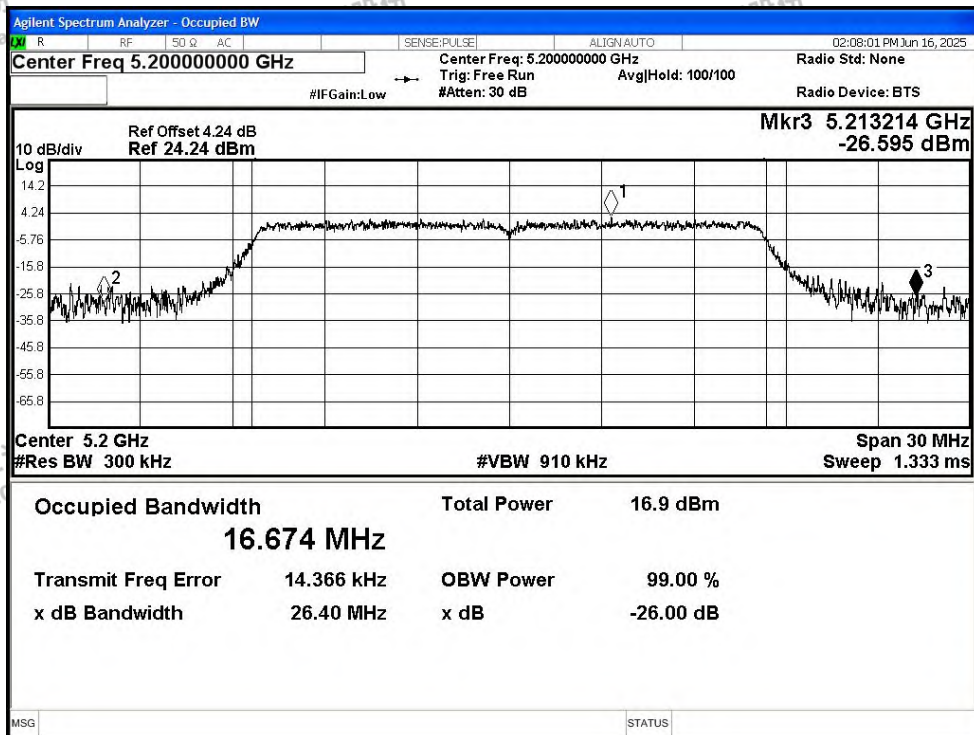


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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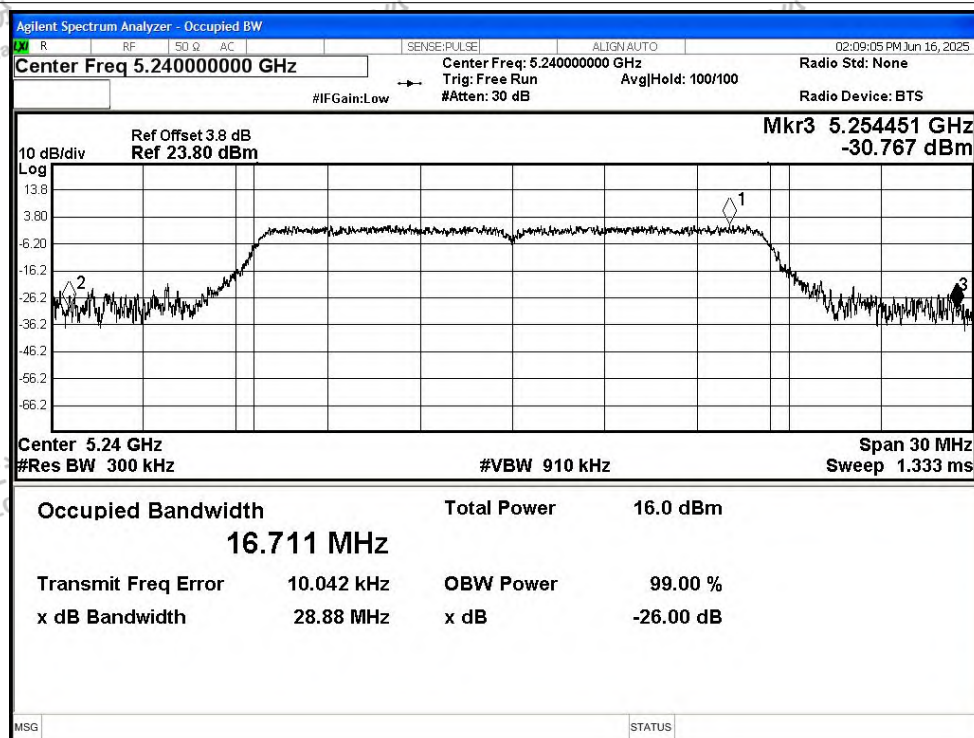
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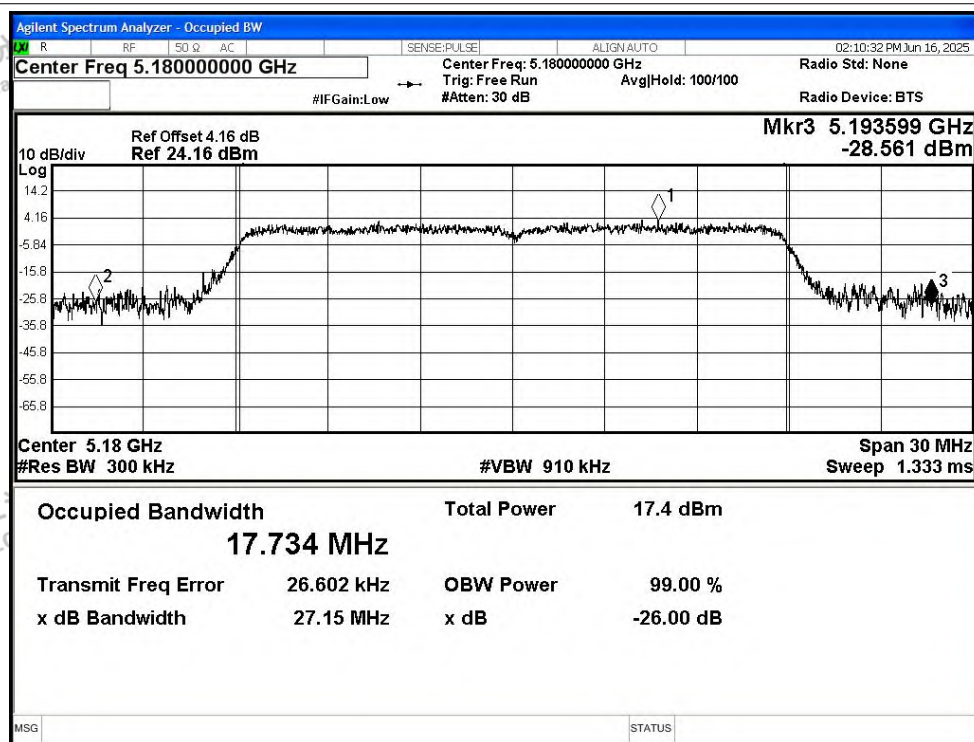
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-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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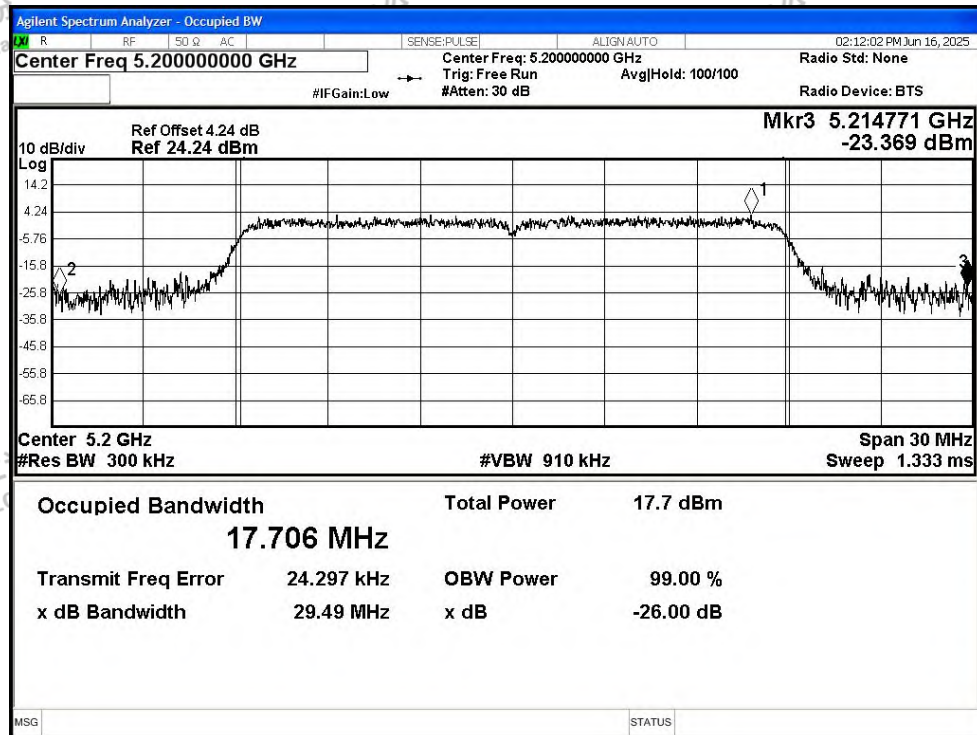
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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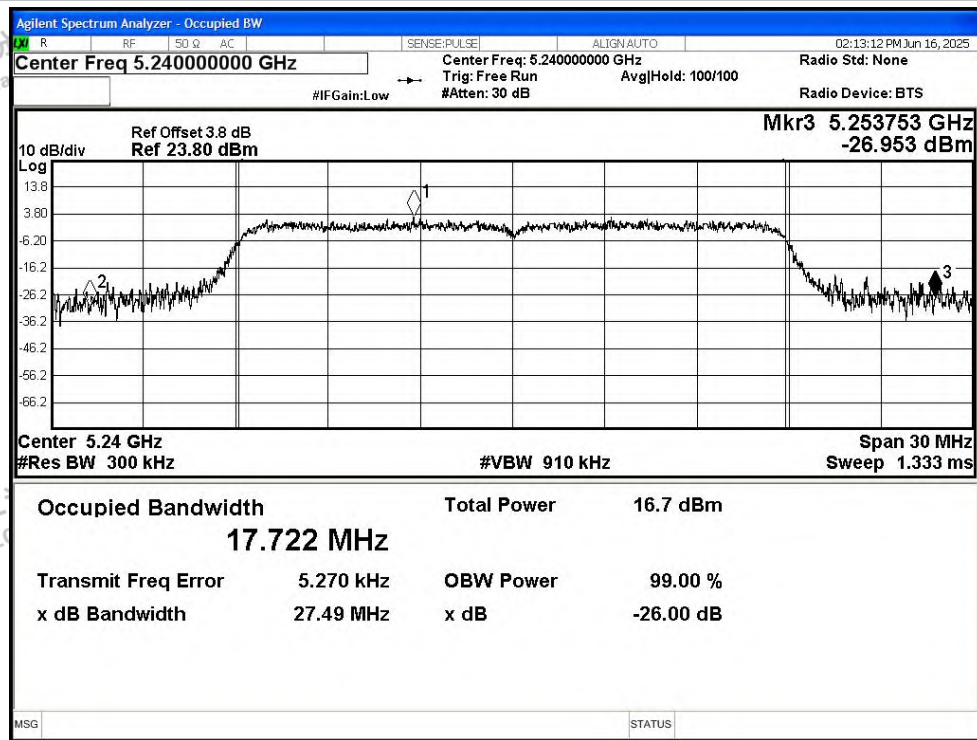
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-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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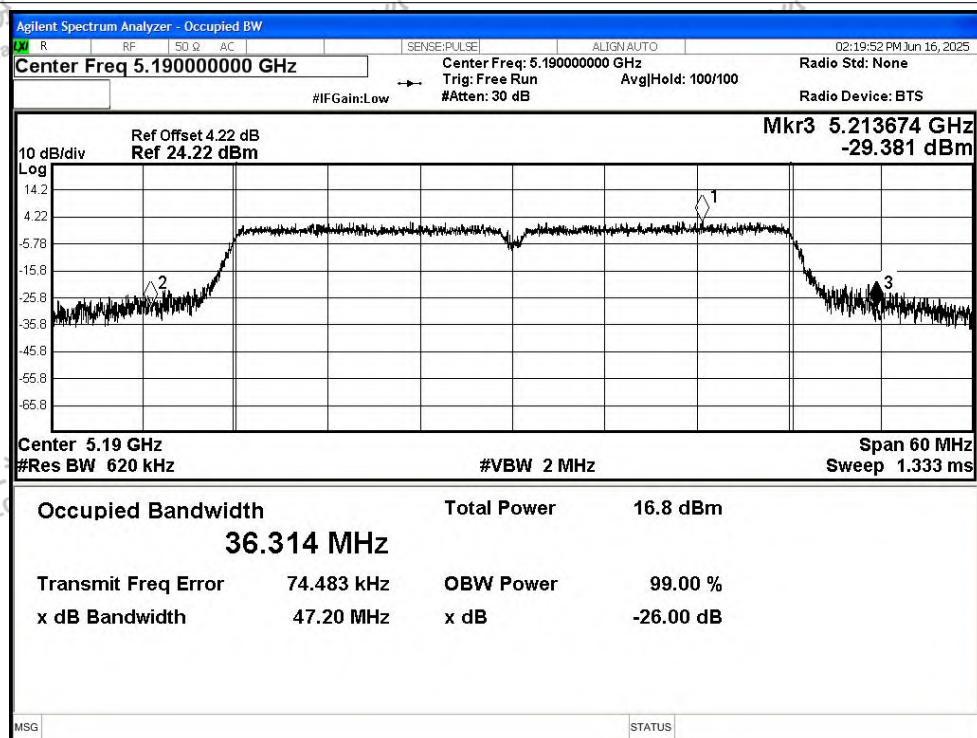
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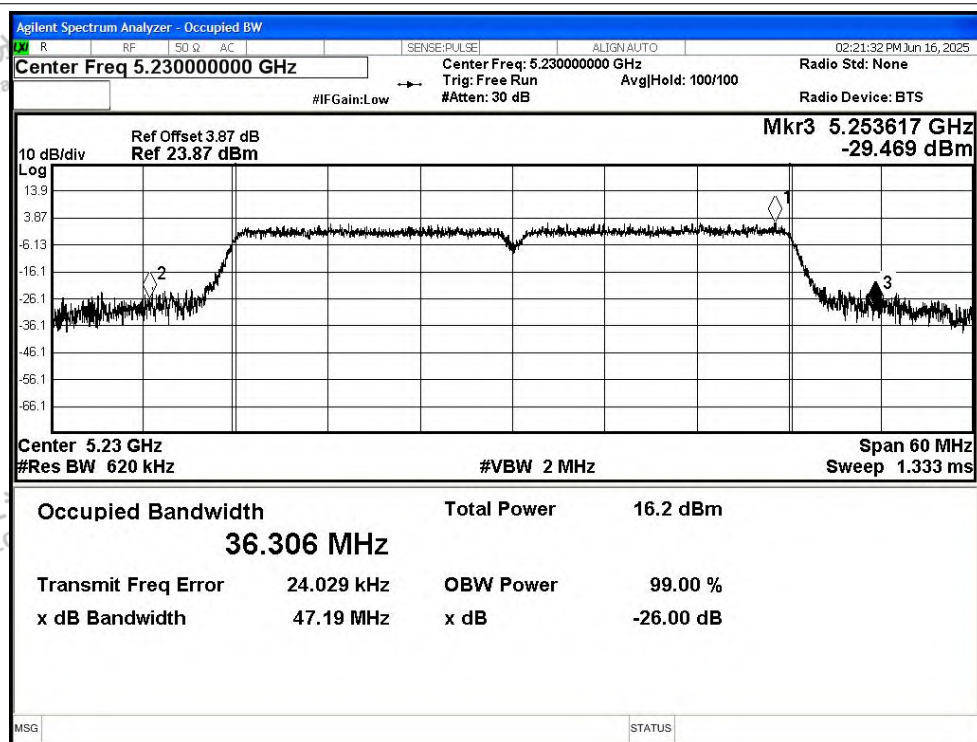
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-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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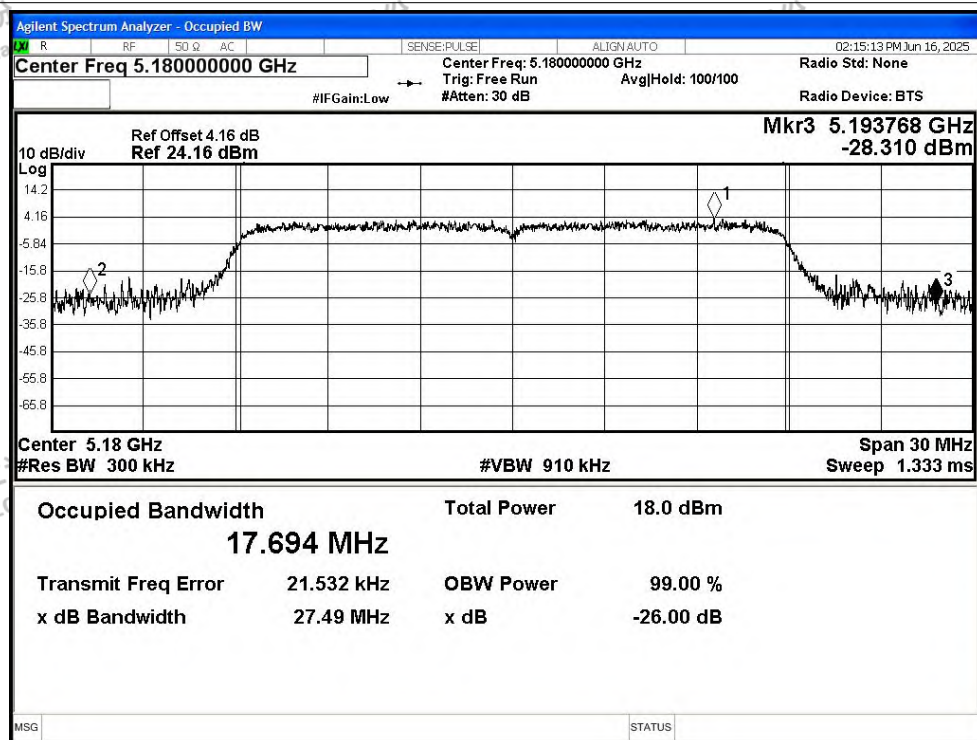
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

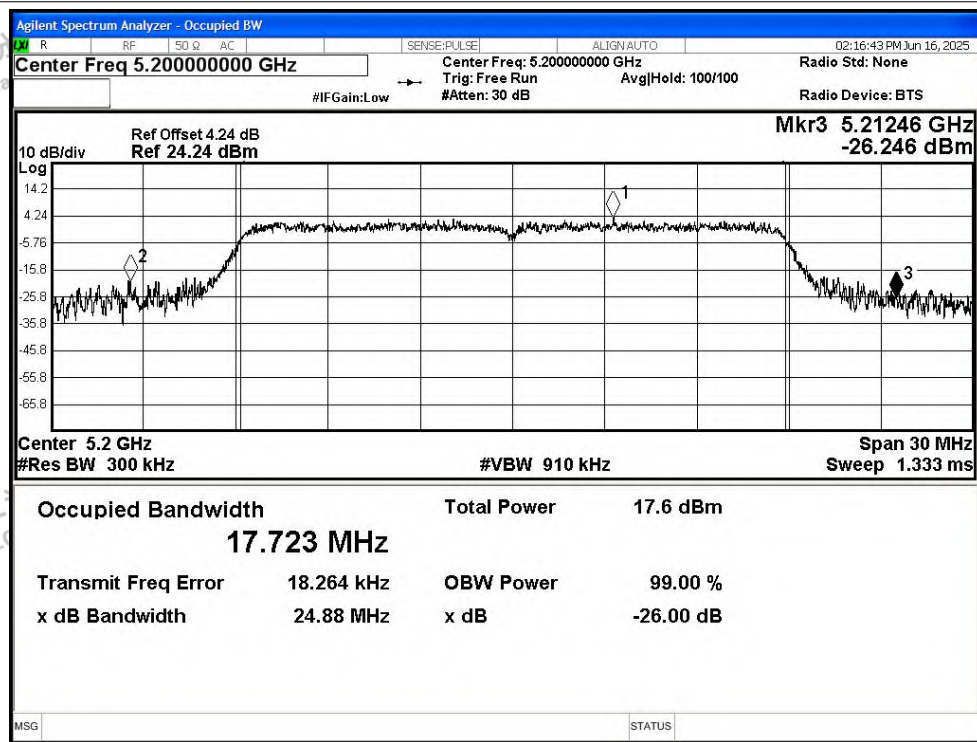
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-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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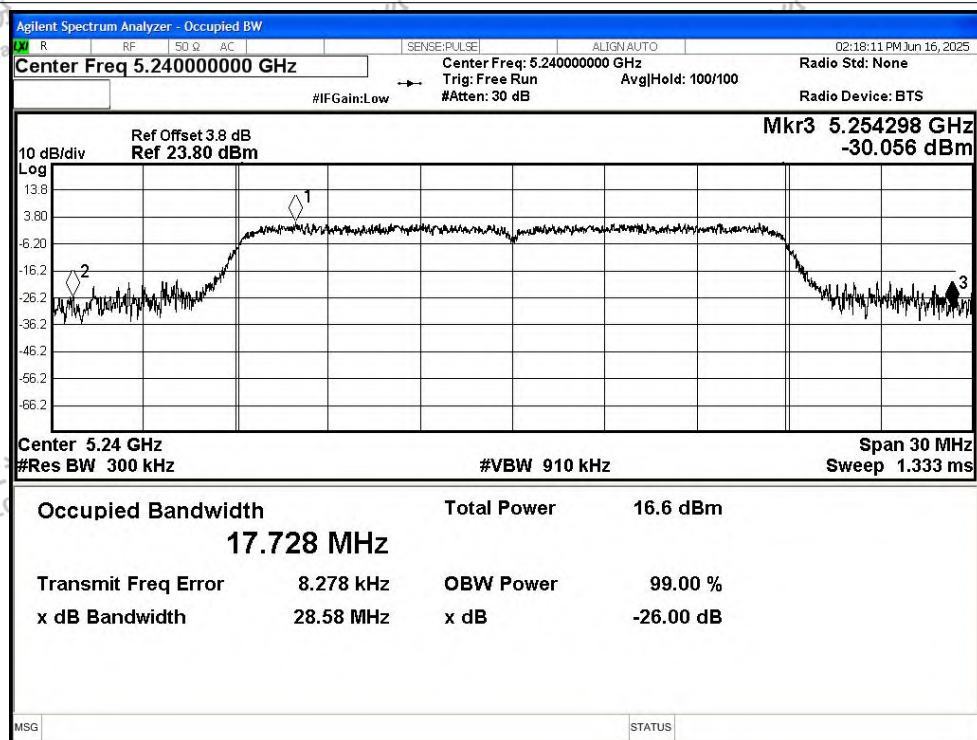
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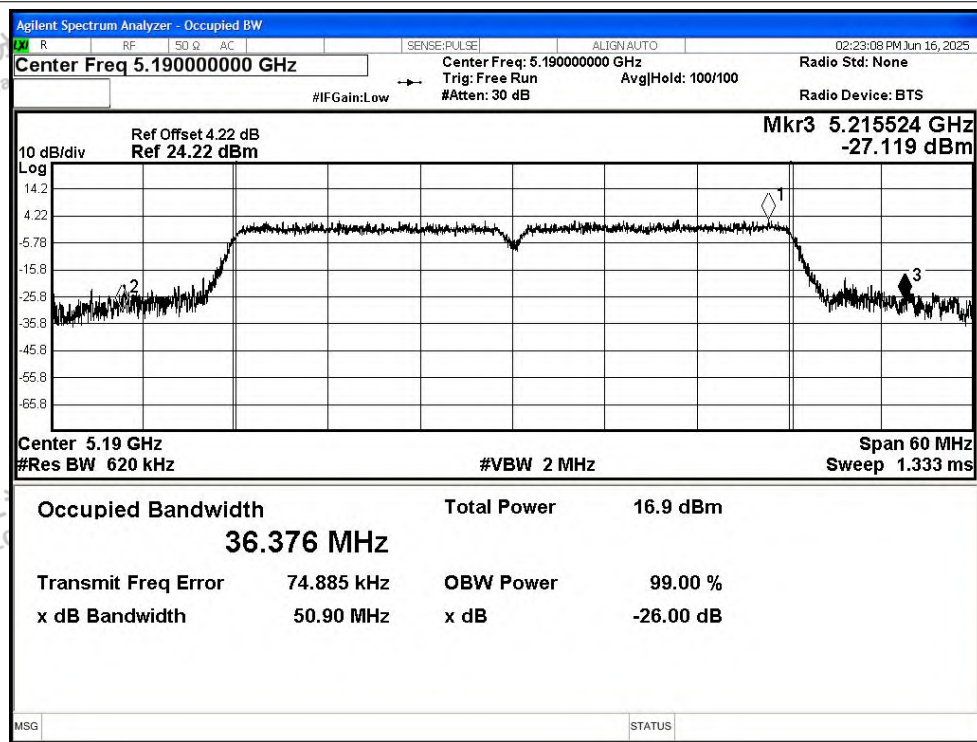
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-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



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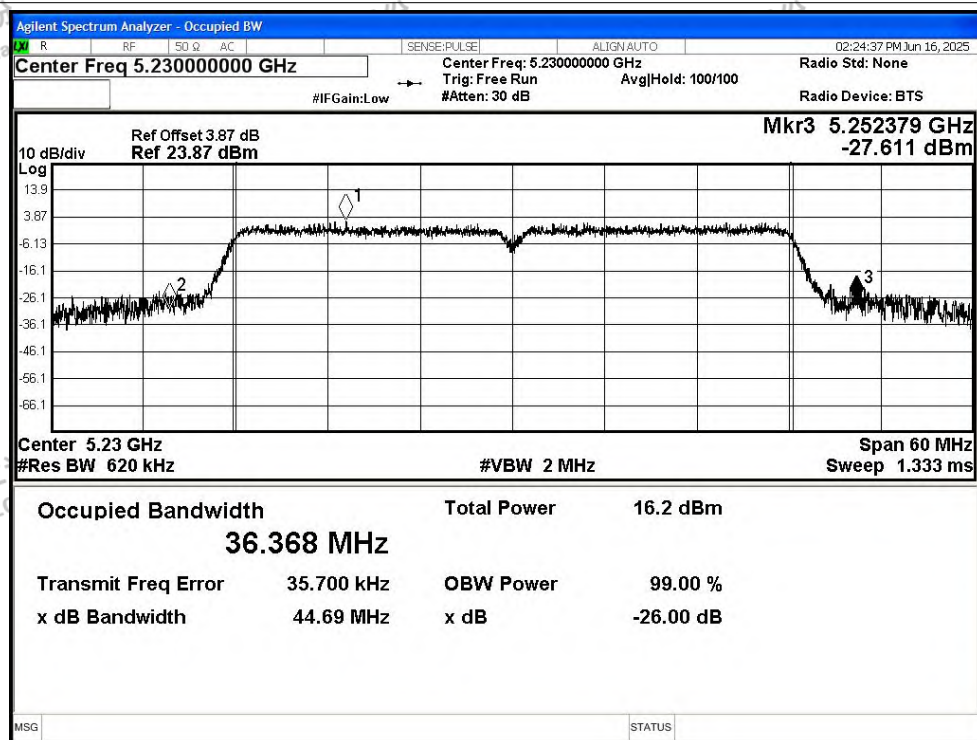
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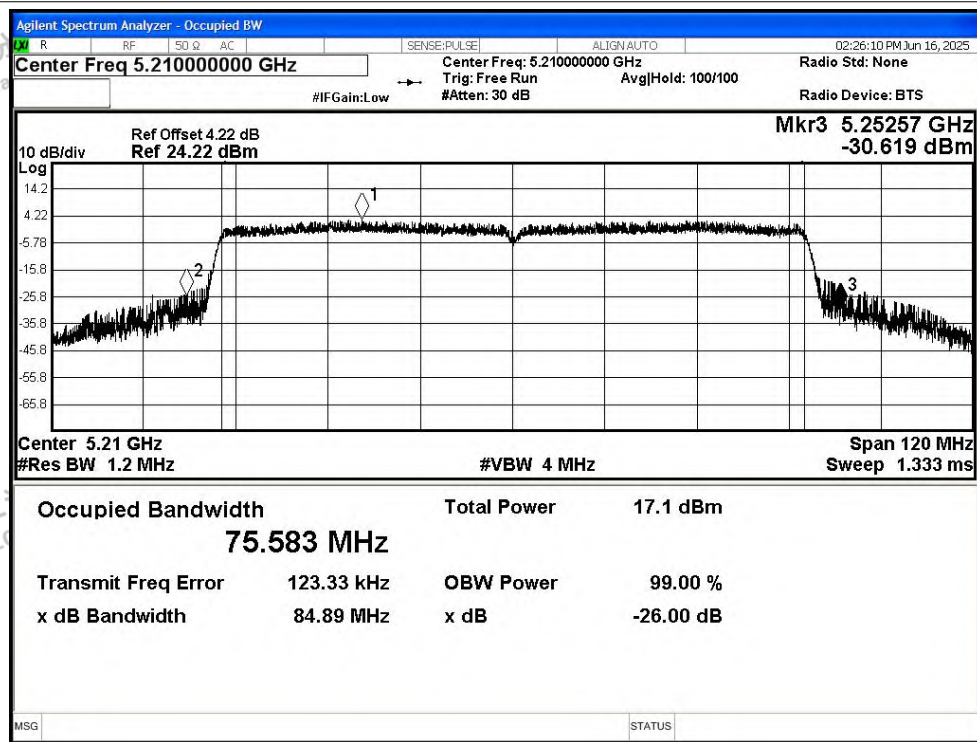
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-26dB Bandwidth NVNT ac80 5210MHz 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	11.56	0.19	11.75	24	Pass
NVNT	a	5200	Ant1	11.24	0.19	11.43	24	Pass
NVNT	a	5240	Ant1	10.32	0.19	10.51	24	Pass
NVNT	n20	5180	Ant1	11.84	0.22	12.06	24	Pass
NVNT	n20	5200	Ant1	11.98	0.23	12.21	24	Pass
NVNT	n20	5240	Ant1	10.97	0.23	11.20	24	Pass
NVNT	n40	5190	Ant1	10.34	0.44	10.78	24	Pass
NVNT	n40	5230	Ant1	9.58	0.43	10.01	24	Pass
NVNT	ac20	5180	Ant1	12.34	0.22	12.56	24	Pass
NVNT	ac20	5200	Ant1	12.05	0.22	12.27	24	Pass
NVNT	ac20	5240	Ant1	11.05	0.22	11.27	24	Pass
NVNT	ac40	5190	Ant1	10.39	0.43	10.82	24	Pass
NVNT	ac40	5230	Ant1	9.59	0.43	10.02	24	Pass
NVNT	ac80	5210	Ant1	9.57	0.83	10.40	24	Pass



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D.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	1.03	0.19	1.22	11	Pass
NVNT	a	5200	Ant1	0.66	0.19	0.85	11	Pass
NVNT	a	5240	Ant1	-0.12	0.19	0.07	11	Pass
NVNT	n20	5180	Ant1	1.63	0.22	1.85	11	Pass
NVNT	n20	5200	Ant1	1.24	0.23	1.47	11	Pass
NVNT	n20	5240	Ant1	0.35	0.23	0.58	11	Pass
NVNT	n40	5190	Ant1	-3.33	0.44	-2.89	11	Pass
NVNT	n40	5230	Ant1	-4.12	0.43	-3.69	11	Pass
NVNT	ac20	5180	Ant1	1.59	0.22	1.81	11	Pass
NVNT	ac20	5200	Ant1	1.26	0.22	1.48	11	Pass
NVNT	ac20	5240	Ant1	0.26	0.22	0.48	11	Pass
NVNT	ac40	5190	Ant1	-2.86	0.43	-2.43	11	Pass
NVNT	ac40	5230	Ant1	-4	0.43	-3.57	11	Pass
NVNT	ac80	5210	Ant1	-7.25	0.83	-6.42	11	Pass

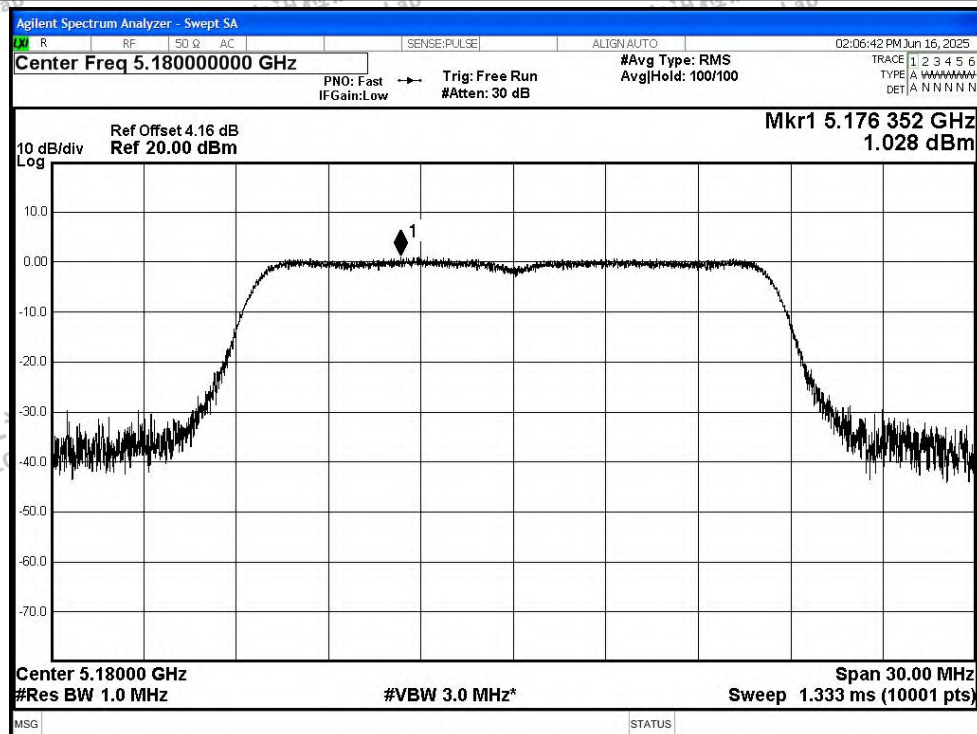


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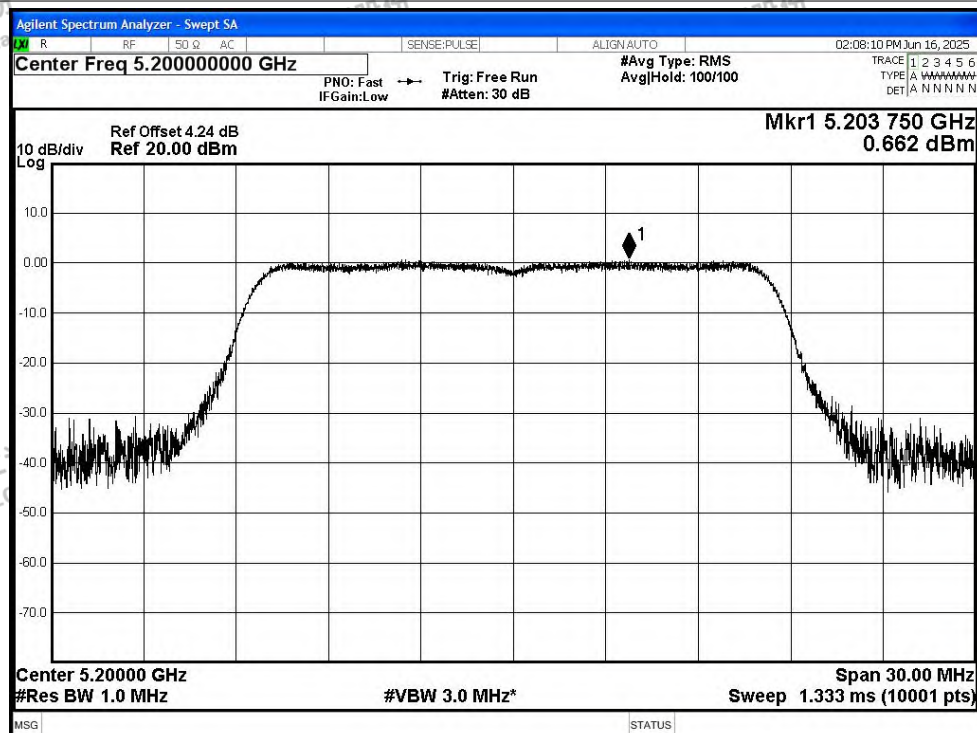


Test Graphs

PSD NVNT a 5180MHz Ant1

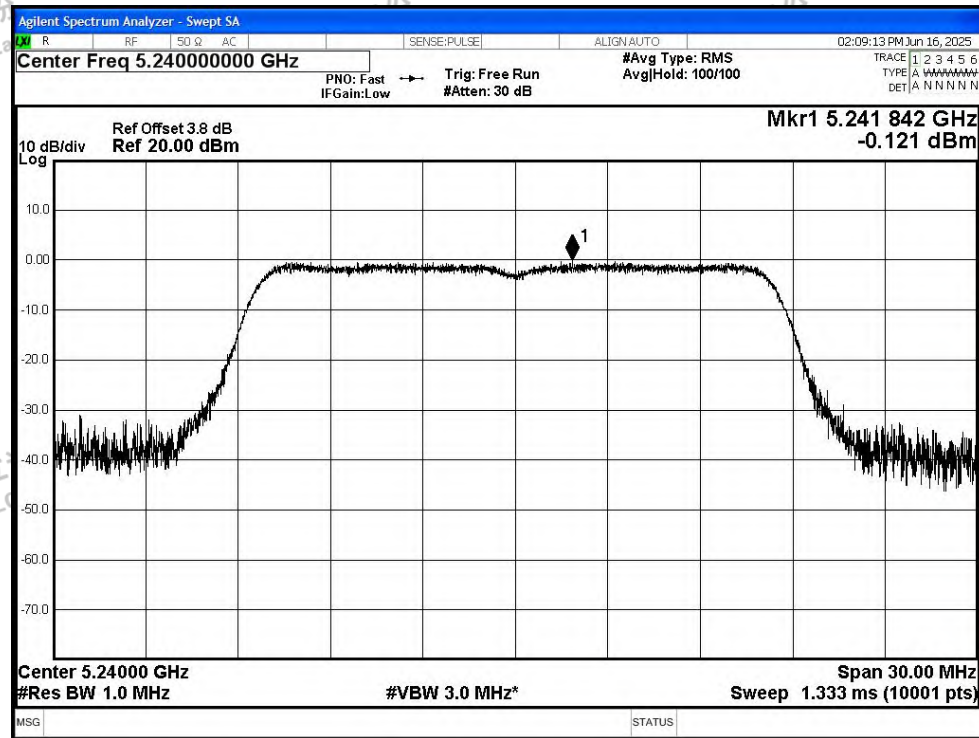


PSD NVNT a 5200MHz Ant1

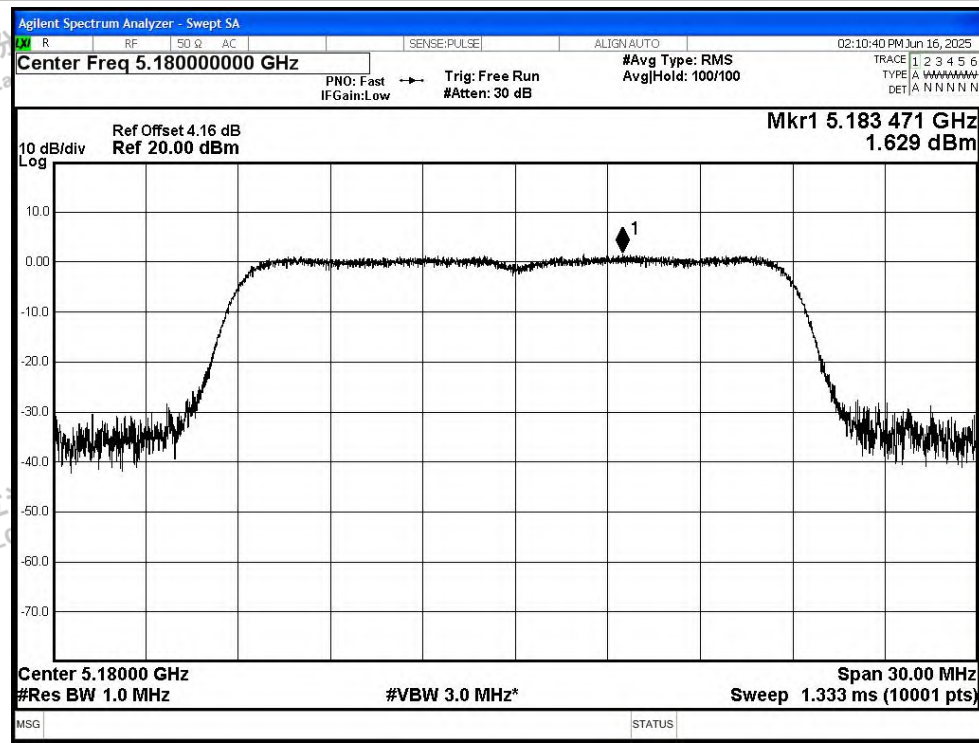




PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1



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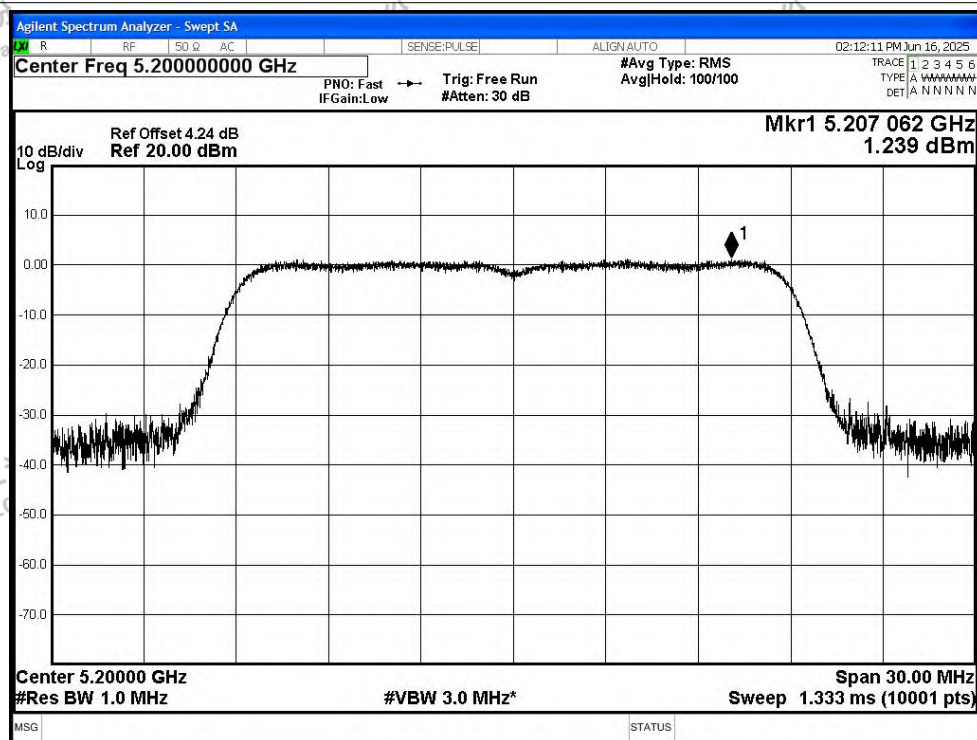
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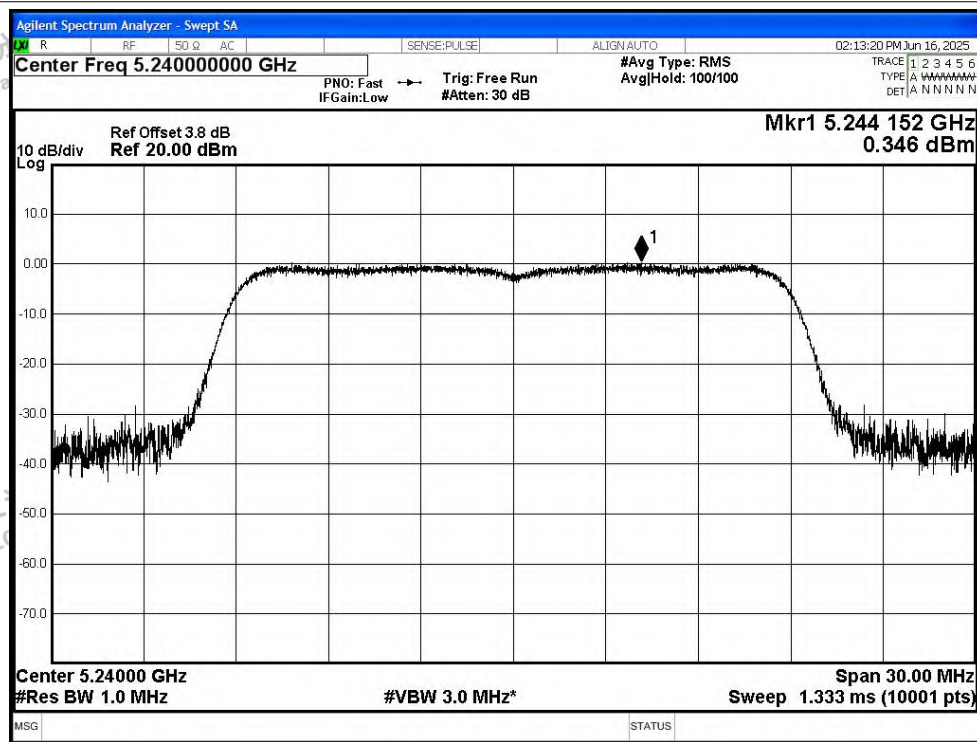
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PSD NVNT n20 5200MHz Ant1



PSD NVNT n20 5240MHz Ant1



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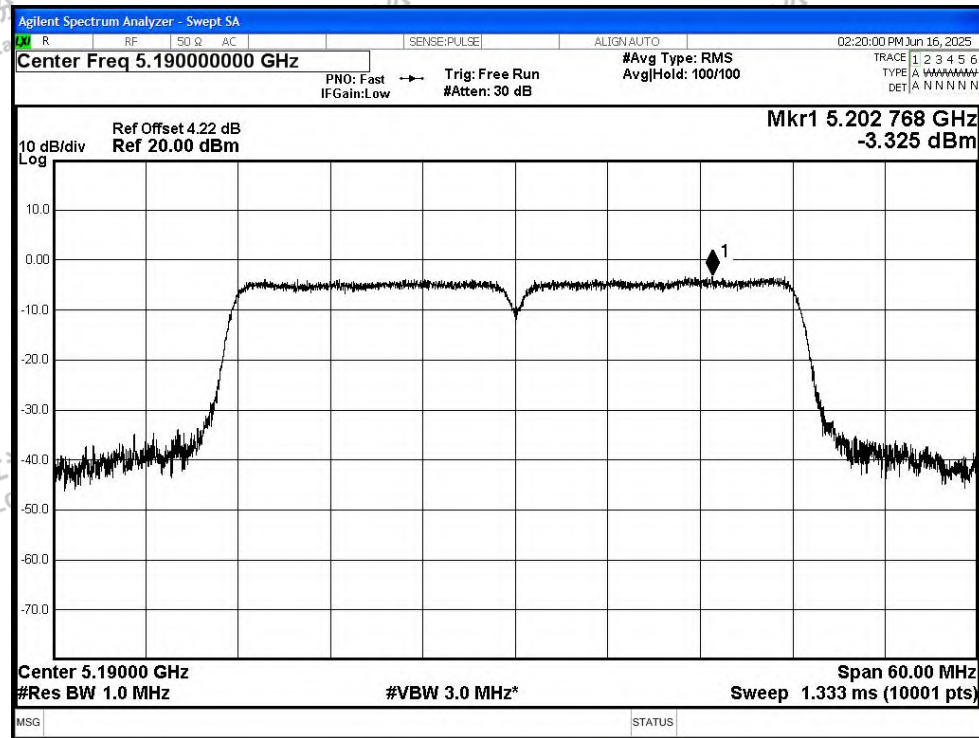
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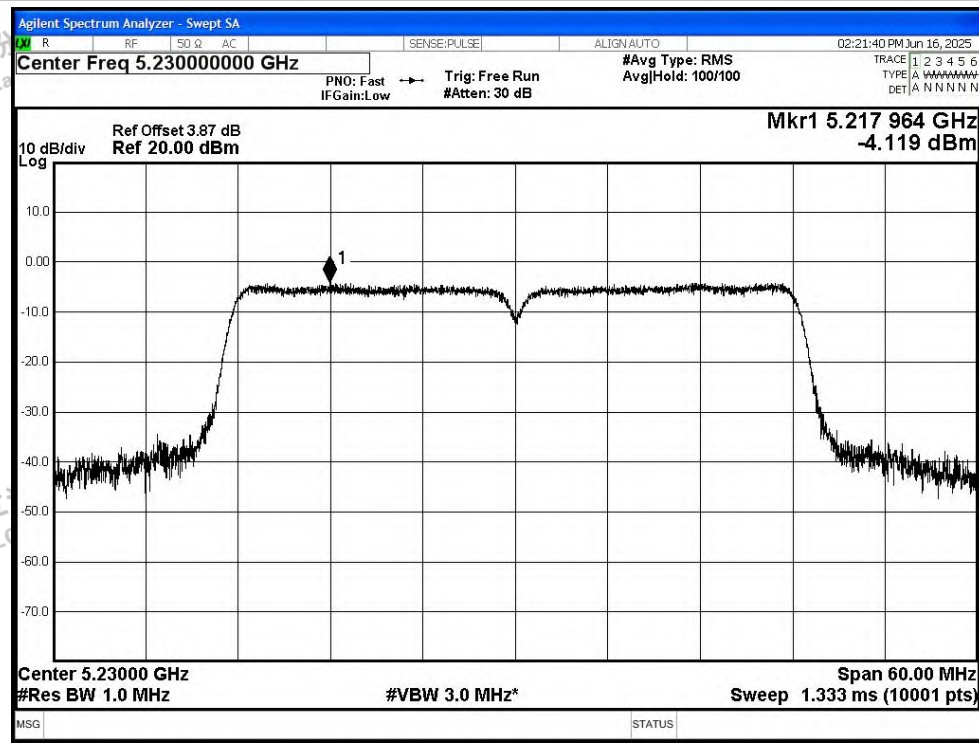
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PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1



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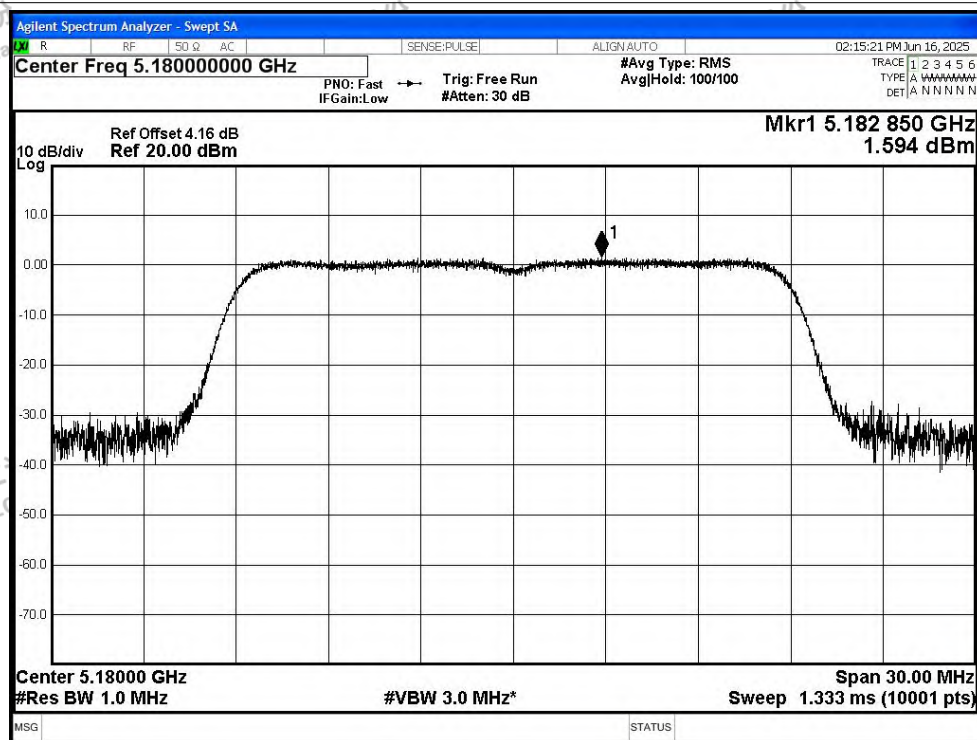
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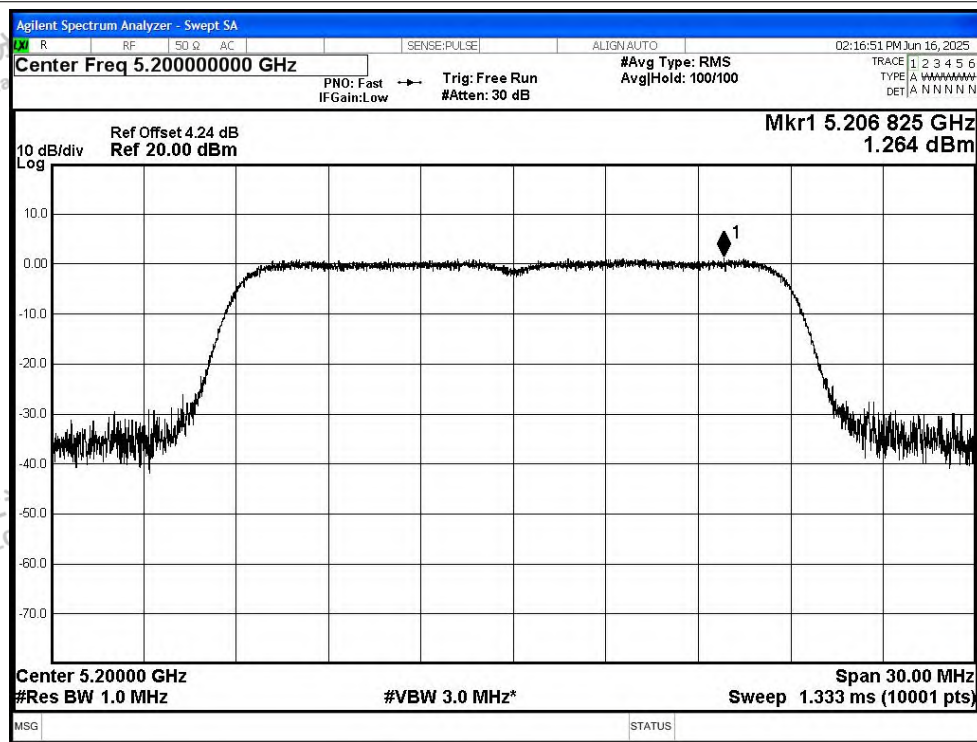
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PSD NVNT ac20 5180MHz Ant1



PSD NVNT ac20 5200MHz Ant1



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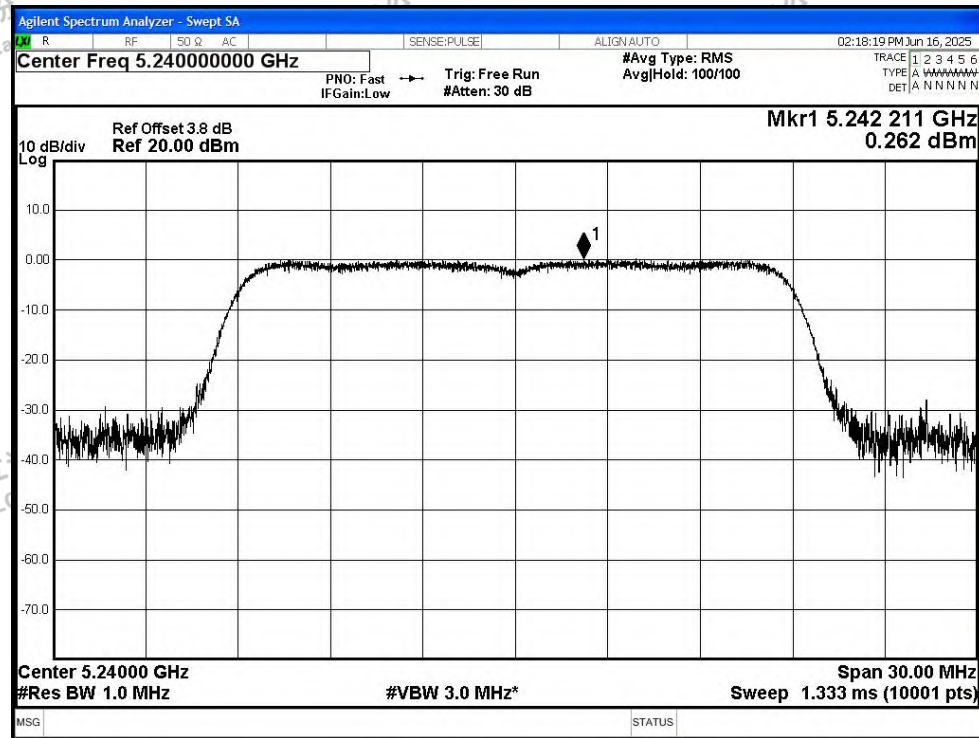
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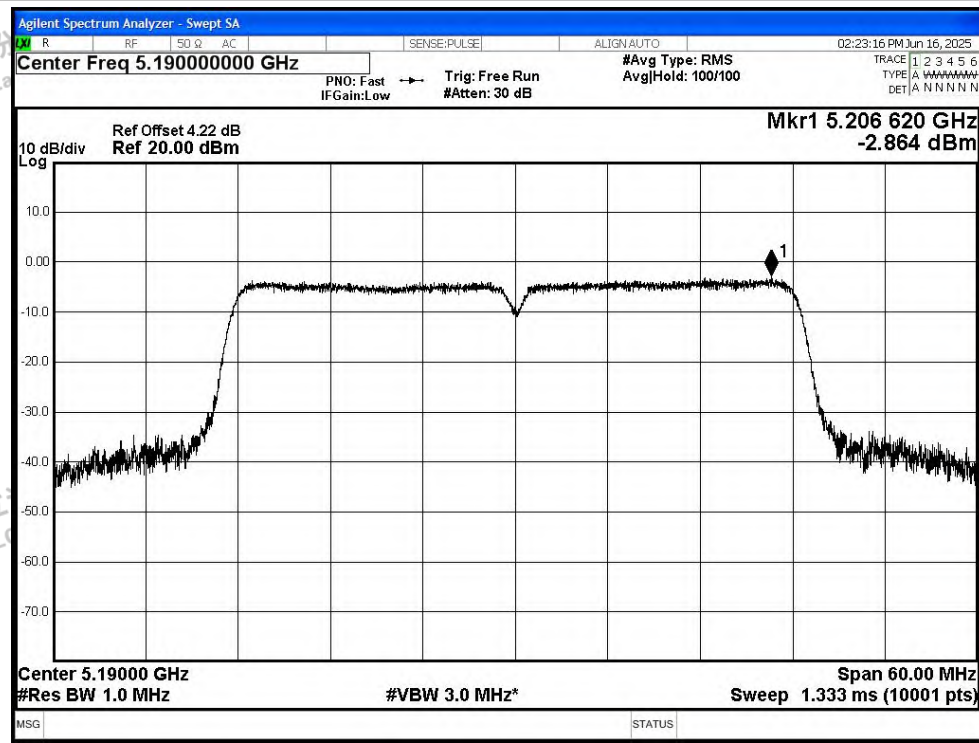
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PSD NVNT ac20 5240MHz Ant1



PSD NVNT ac40 5190MHz Ant1



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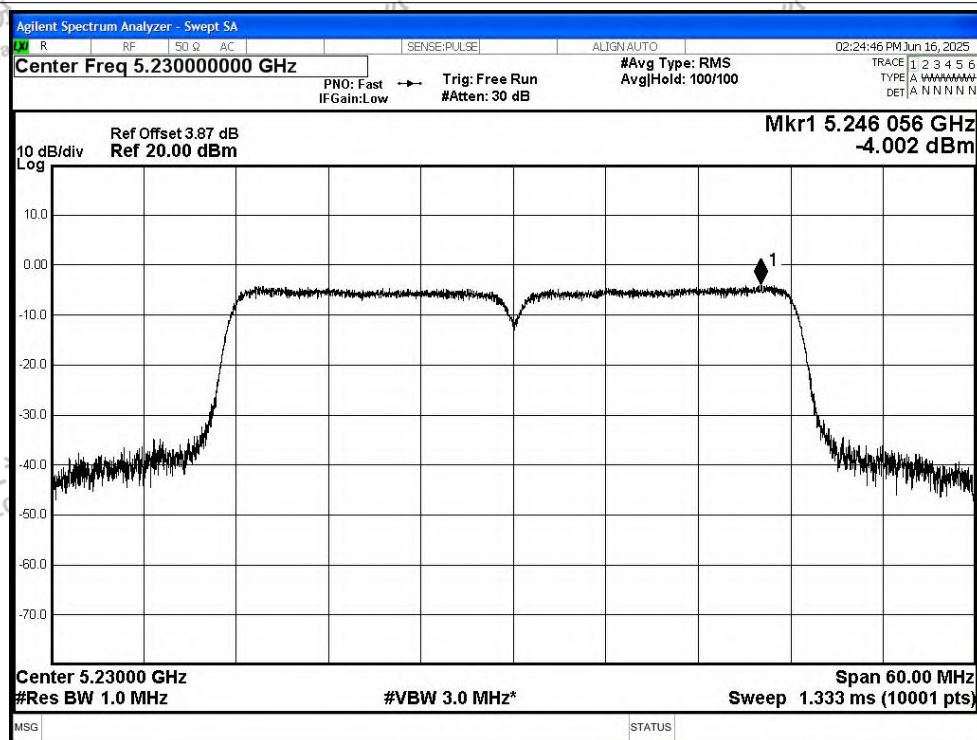
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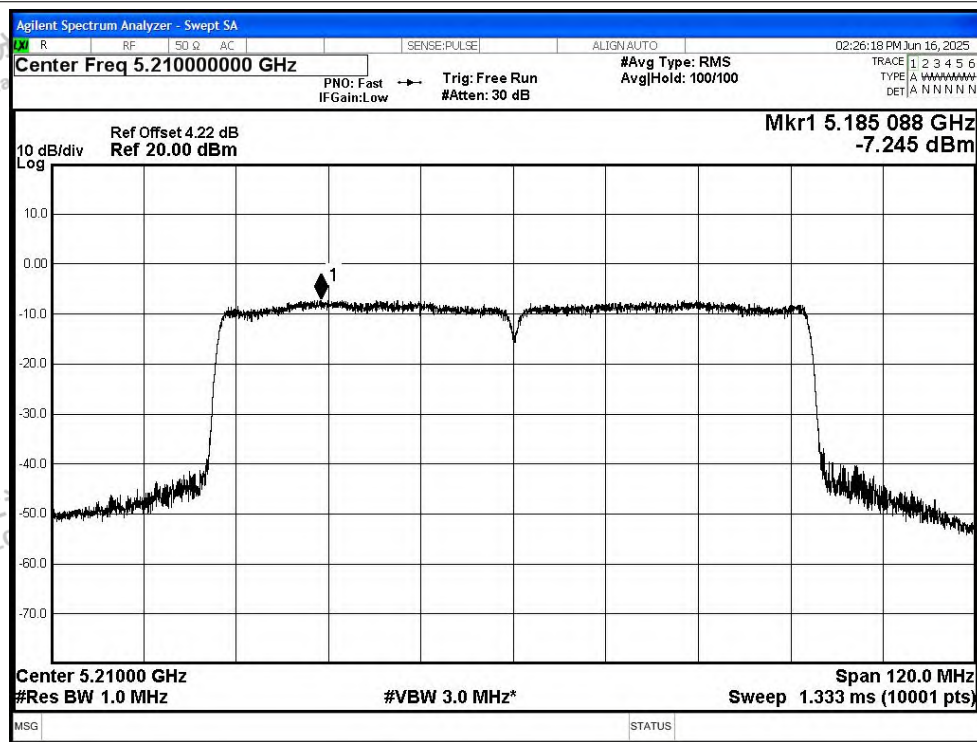
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PSD NVNT ac40 5230MHz Ant1



PSD NVNT ac80 5210MHz 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	5180	Ant1	4500	-49.47	2.28	-	48.04	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-58.02	2.28	0.19	39.68	Average	54	Pass
NVNT	a	5180	Ant1	5148.2	-37.74	2.28	-	59.77	Peak	68.2	Pass
NVNT	a	5180	Ant1	5148.2	-50.6	2.28	0.19	47.1	Average	54	Pass
NVNT	a	5180	Ant1	5150	-36.9	2.28	-	60.61	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-50.85	2.28	0.19	46.85	Average	54	Pass
NVNT	a	5240	Ant1	5350	-47.3	2.28	-	50.21	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-56.2	2.28	0.19	41.5	Average	54	Pass
NVNT	a	5240	Ant1	5371.44	-46.36	2.28	-	51.15	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350.32	-56.09	2.28	0.19	41.61	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.65	2.28	-	46.86	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-57.65	2.28	0.19	40.05	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.56	2.28	-	47.95	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-57.52	2.28	0.22	40.21	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-34.94	2.28	-	62.57	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5148.9	-47.06	2.28	0.22	50.67	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-35.65	2.28	-	61.86	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-46.37	2.28	0.22	51.36	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-47.92	2.28	-	49.59	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-56.77	2.28	0.23	40.97	Average	54	Pass
NVNT	n20	5240	Ant1	5448.48	-45.8	2.28	-	51.71	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5352	-56.07	2.28	0.23	41.67	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-49.74	2.28	-	47.77	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-57.85	2.28	0.23	39.89	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-49.97	2.28	-	47.54	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-57.53	2.28	0.44	40.42	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-33.88	2.28	-	63.63	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-48.81	2.28	0.44	49.14	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-33.88	2.28	-	63.63	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-48.81	2.28	0.44	49.14	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-48.63	2.28	-	48.88	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-57.57	2.28	0.43	40.37	Average	54	Pass
NVNT	n40	5230	Ant1	5418.69	-46.73	2.28	-	50.78	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5355.51	-56.36	2.28	0.43	41.58	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-49.6	2.28	-	47.91	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-57.61	2.28	0.43	40.33	Average	54	Pass



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NVNT	ac20	5180	Ant1	4500	-49.8	2.28	-	47.71	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-58.09	2.28	0.22	39.64	Average	54	Pass
NVNT	ac20	5180	Ant1	5148.9	-39.57	2.28	-	57.94	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5148.9	-50.01	2.28	0.22	47.72	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-38.26	2.28	-	59.25	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-48.56	2.28	0.22	49.17	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-47.62	2.28	-	49.89	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-57.24	2.28	0.22	40.49	Average	54	Pass
NVNT	ac20	5240	Ant1	5423.04	-46.3	2.28	-	51.21	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5352.24	-55.84	2.28	0.22	41.89	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-49.62	2.28	-	47.89	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-57.81	2.28	0.22	39.92	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.22	2.28	-	48.29	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-57.99	2.28	0.43	39.95	Average	54	Pass
NVNT	ac40	5190	Ant1	5149.7	-35.7	2.28	-	61.81	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-49.47	2.28	0.43	48.47	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-35.7	2.28	-	61.81	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-49.47	2.28	0.43	48.47	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.46	2.28	-	48.05	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-56.46	2.28	0.43	41.48	Average	54	Pass
NVNT	ac40	5230	Ant1	5400.87	-45.88	2.28	-	51.63	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5359.29	-56.41	2.28	0.43	41.53	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-47.88	2.28	-	49.63	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-57.28	2.28	0.43	40.66	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-48.5	2.28	-	49.01	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-56.67	2.28	0.83	41.67	Average	54	Pass
NVNT	ac80	5210	Ant1	5365.62	-46.33	2.28	-	51.18	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5379.15	-55.73	2.28	0.83	42.61	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-49.02	2.28	-	48.49	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-56.88	2.28	0.83	41.46	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-49.02	2.28	-	48.49	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-58.06	2.28	0.83	40.28	Average	54	Pass
NVNT	ac80	5210	Ant1	5147.01	-39.96	2.28	-	57.55	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5143.85	-50.36	2.28	0.83	47.98	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-42.06	2.28	-	55.45	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-50.63	2.28	0.83	47.71	Average	54	Pass



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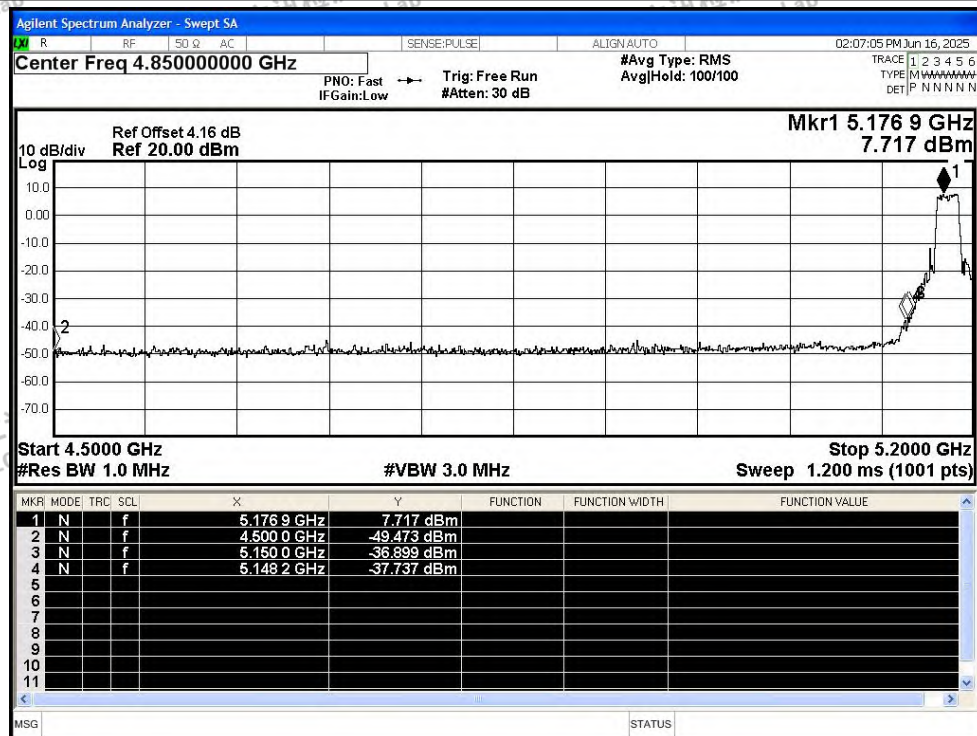
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

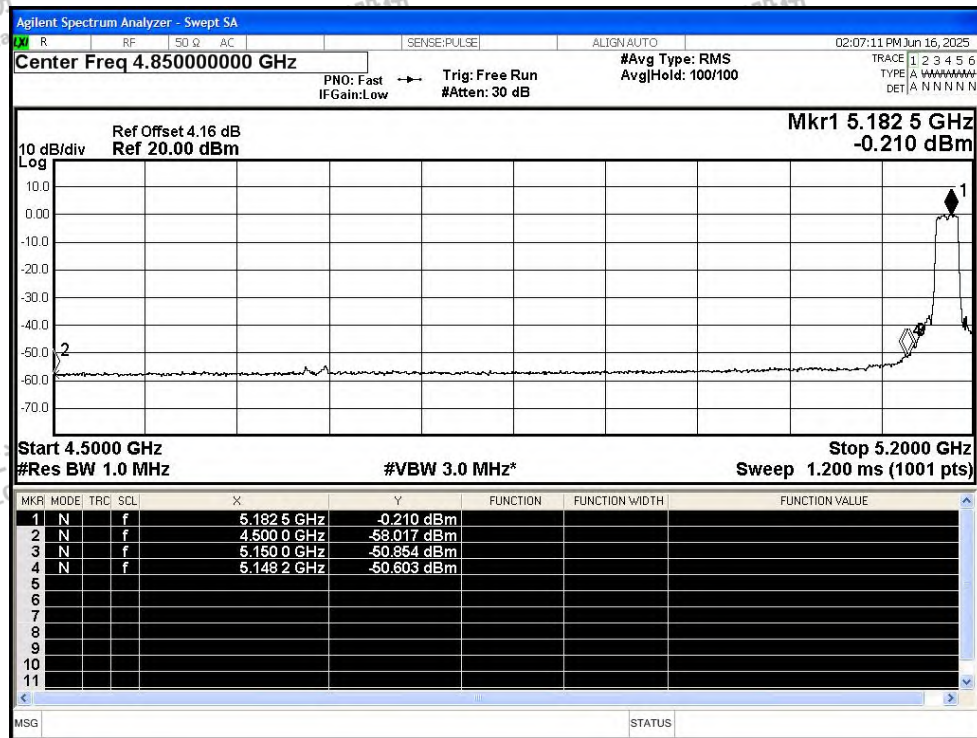


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

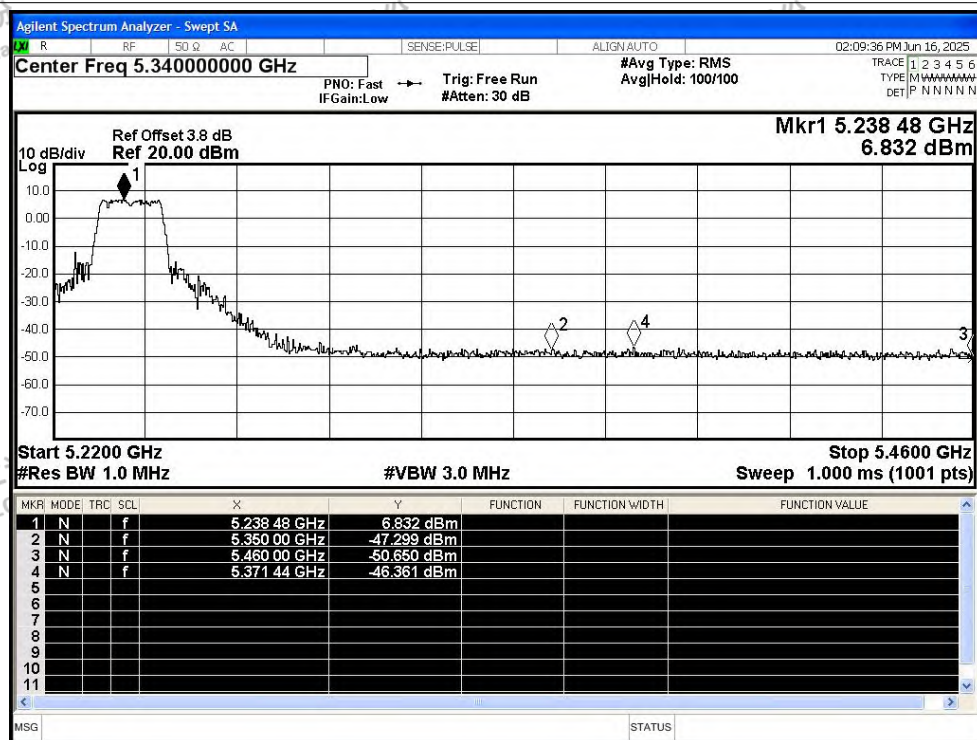
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

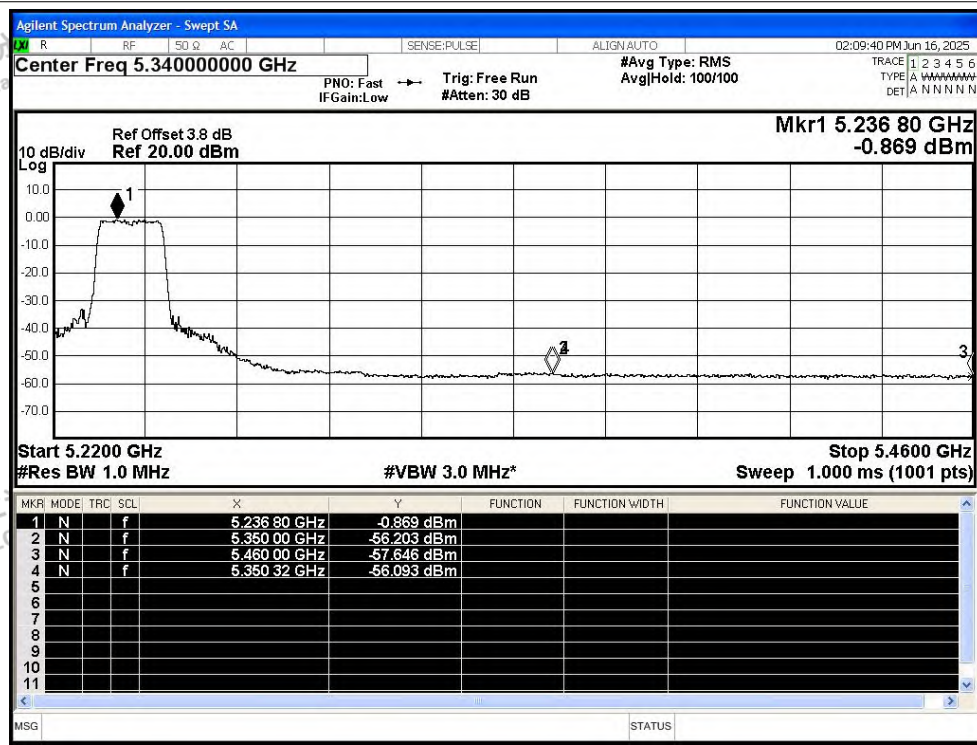
Scan code to check authenticity



Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

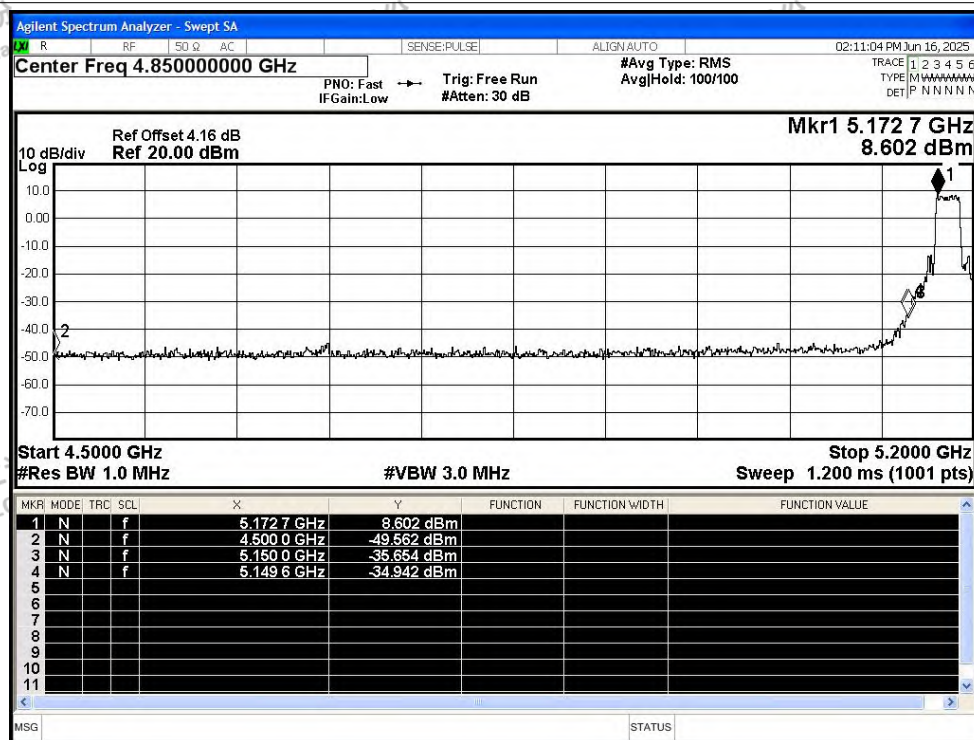
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

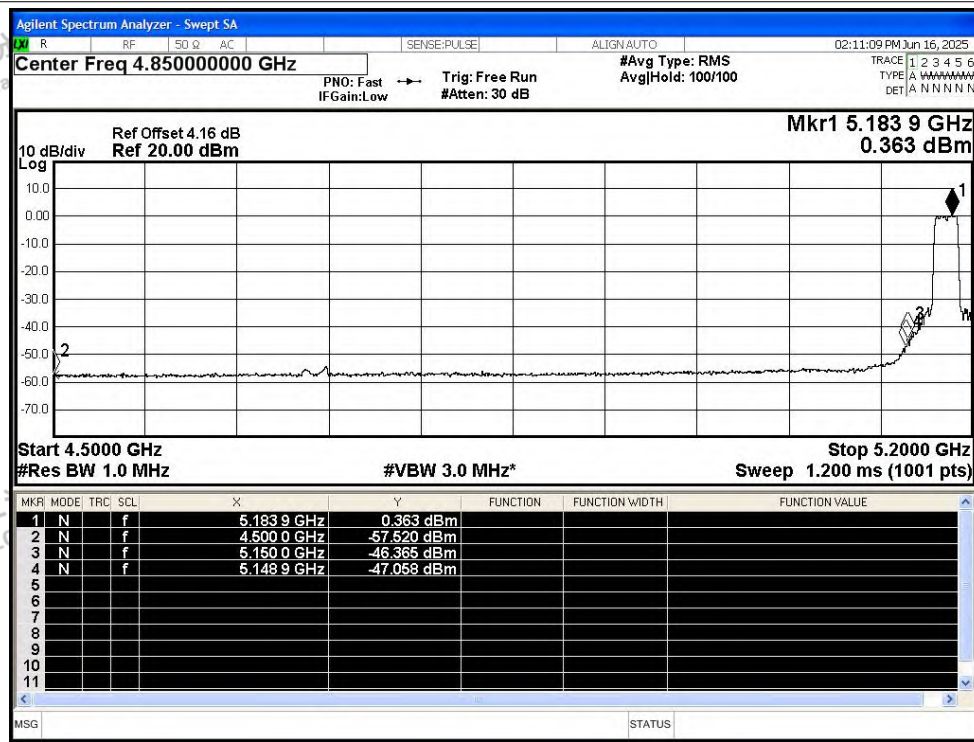
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

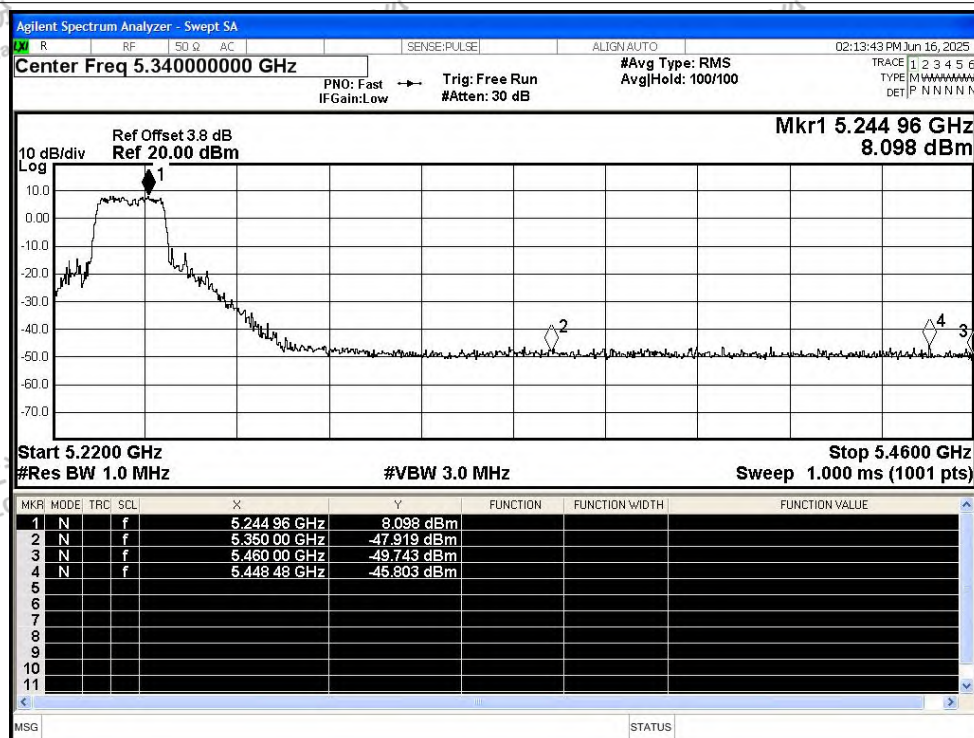
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

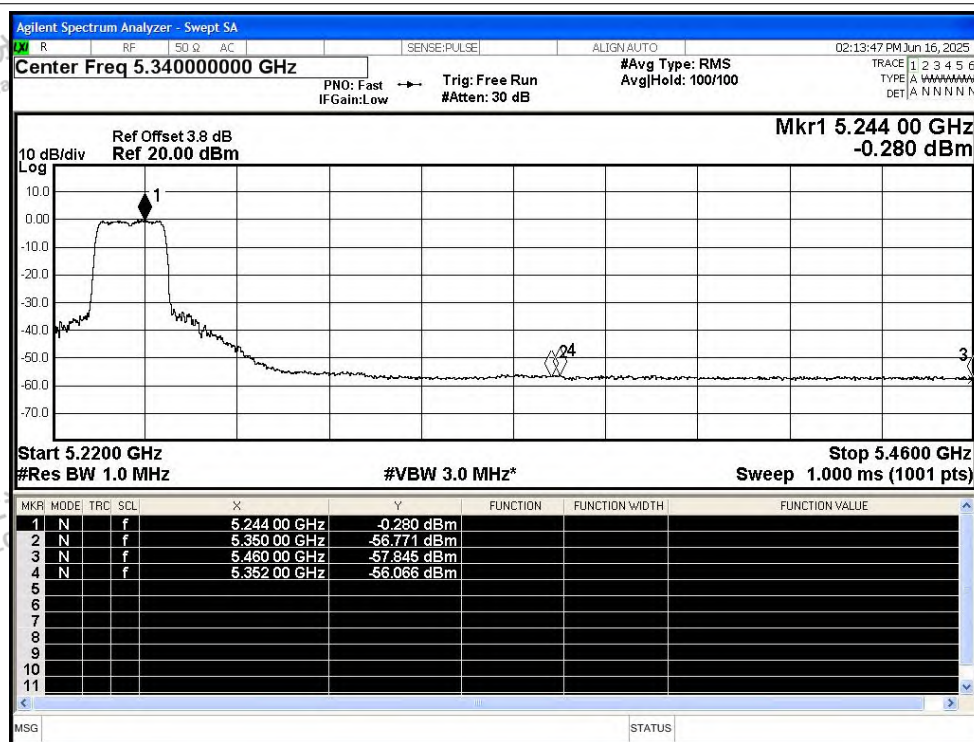
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

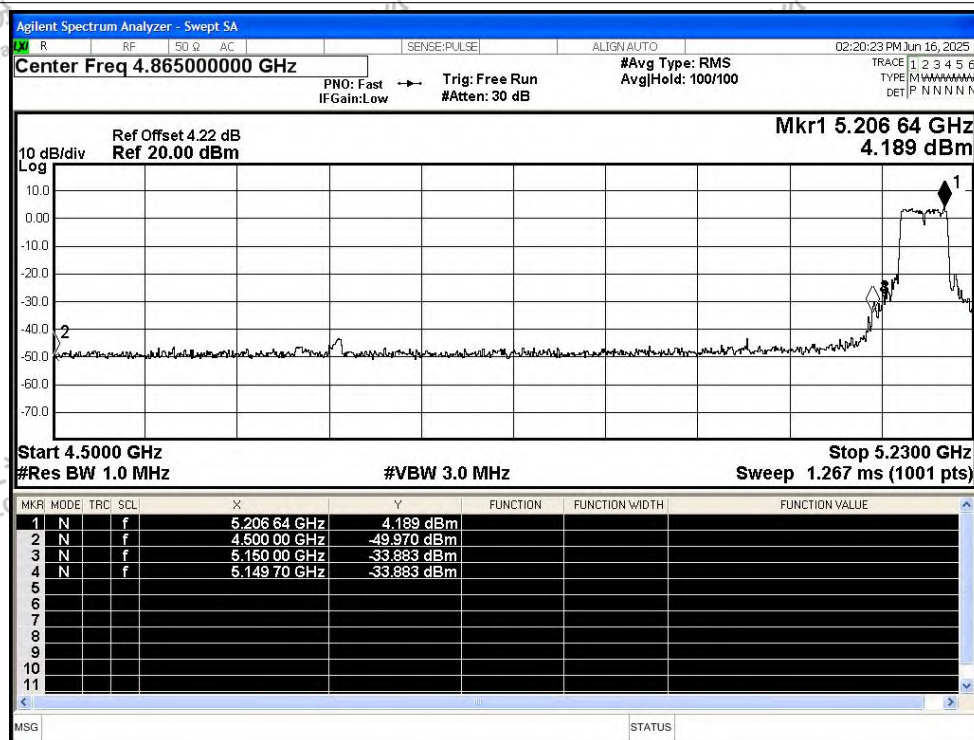
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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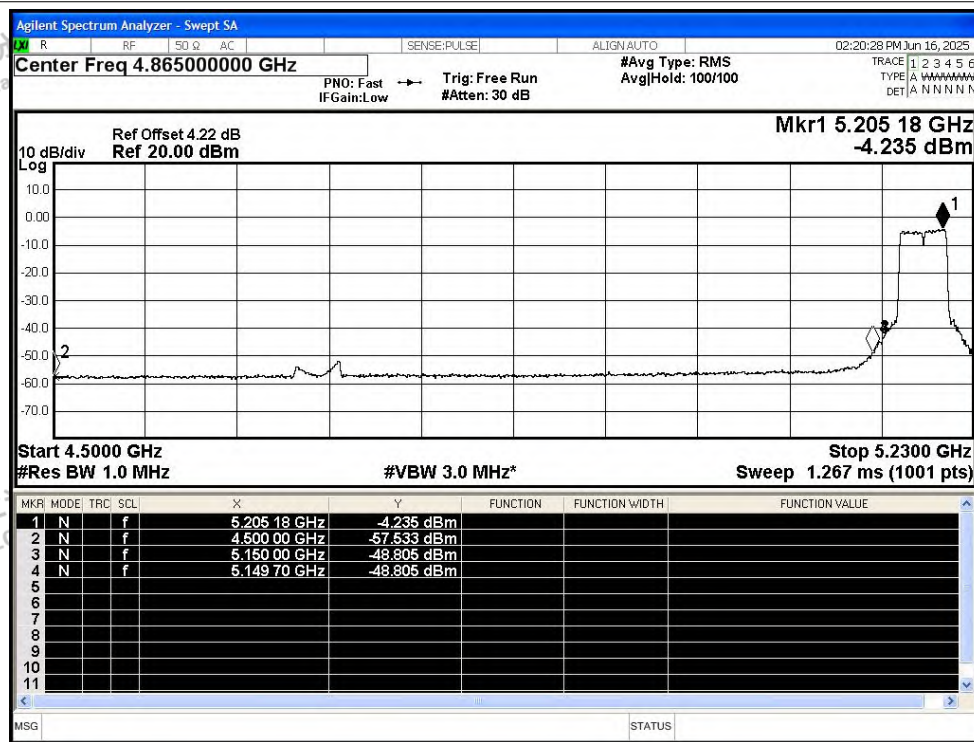
Scan code to check authenticity



Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

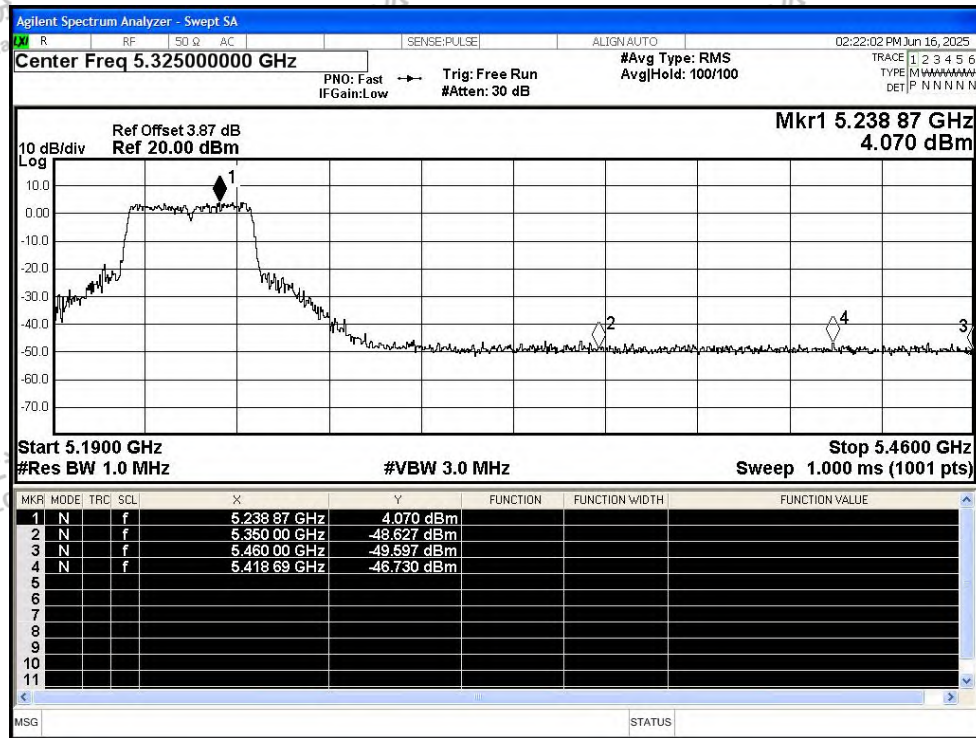
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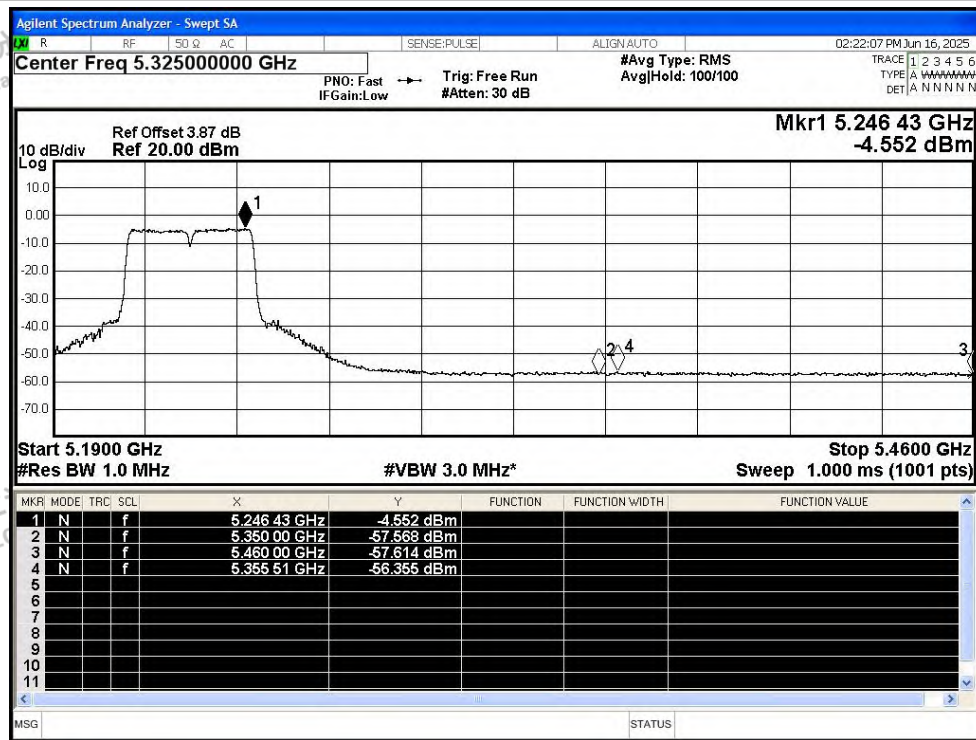
Scan code to check authenticity



Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

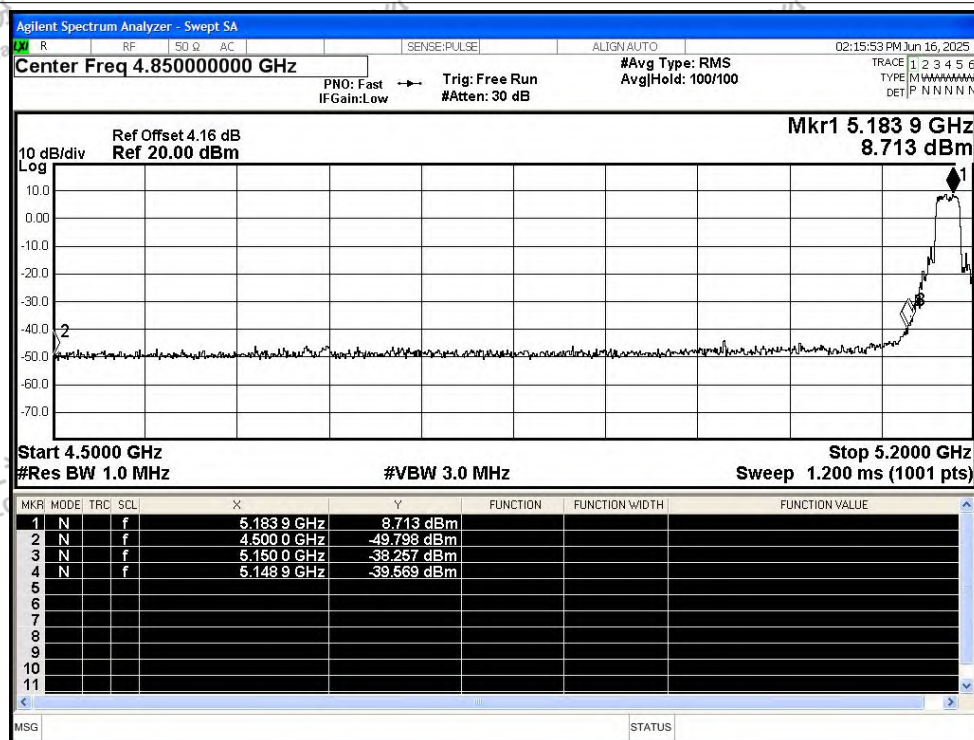
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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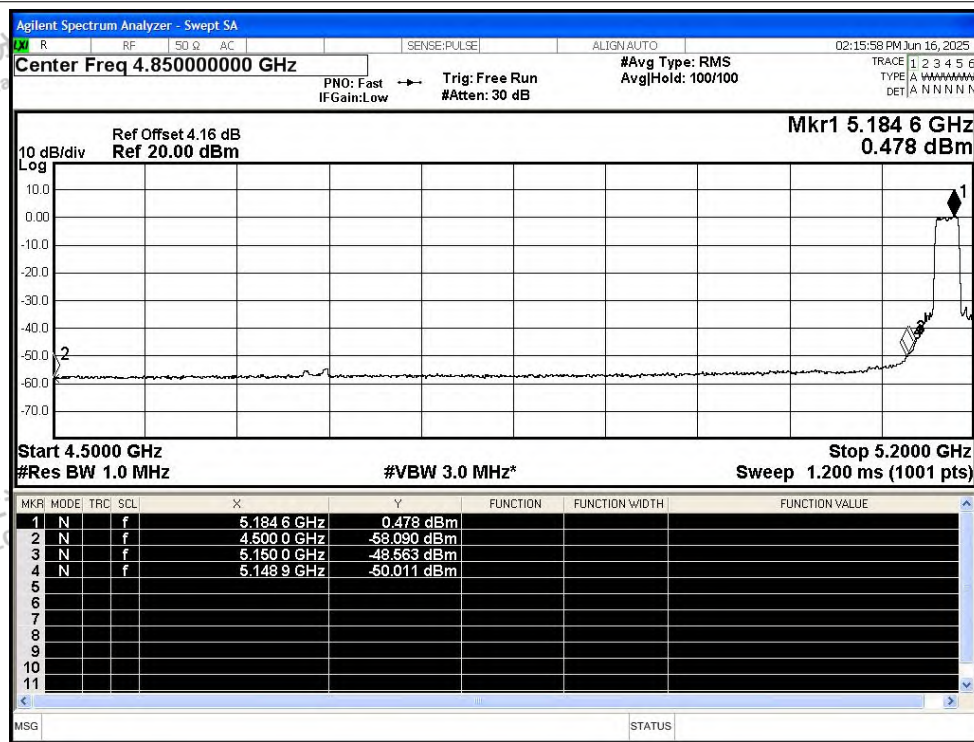
Scan code to check authenticity



Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

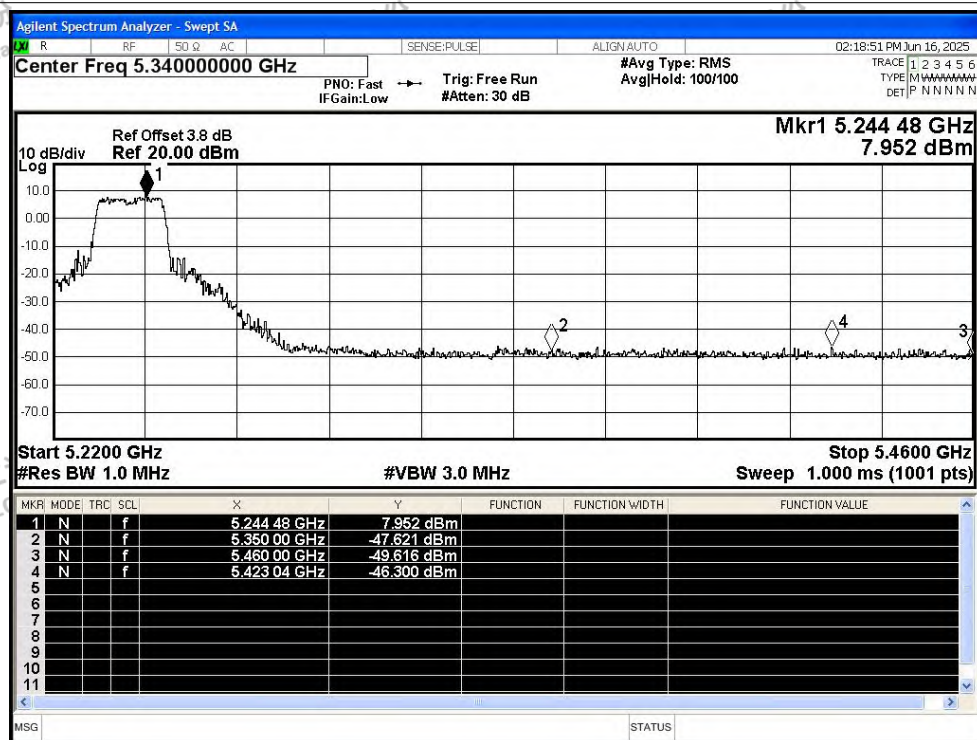
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

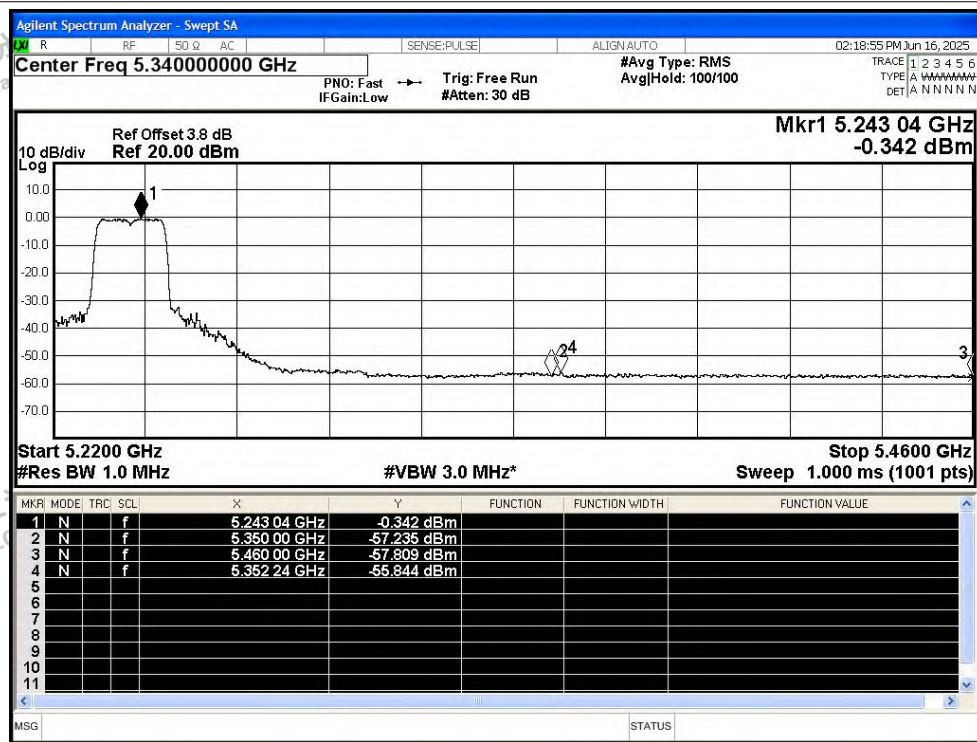
Scan code to check authenticity



Restrict Band NVNT ac20 5240MHz Ant1 Peak



Restrict Band NVNT ac20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

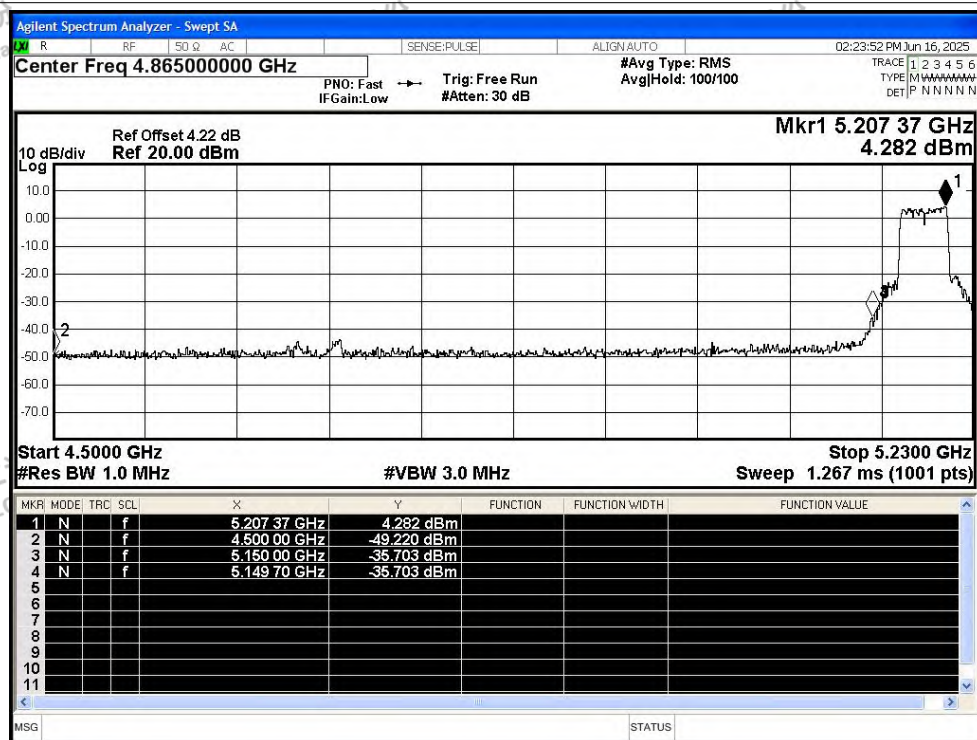
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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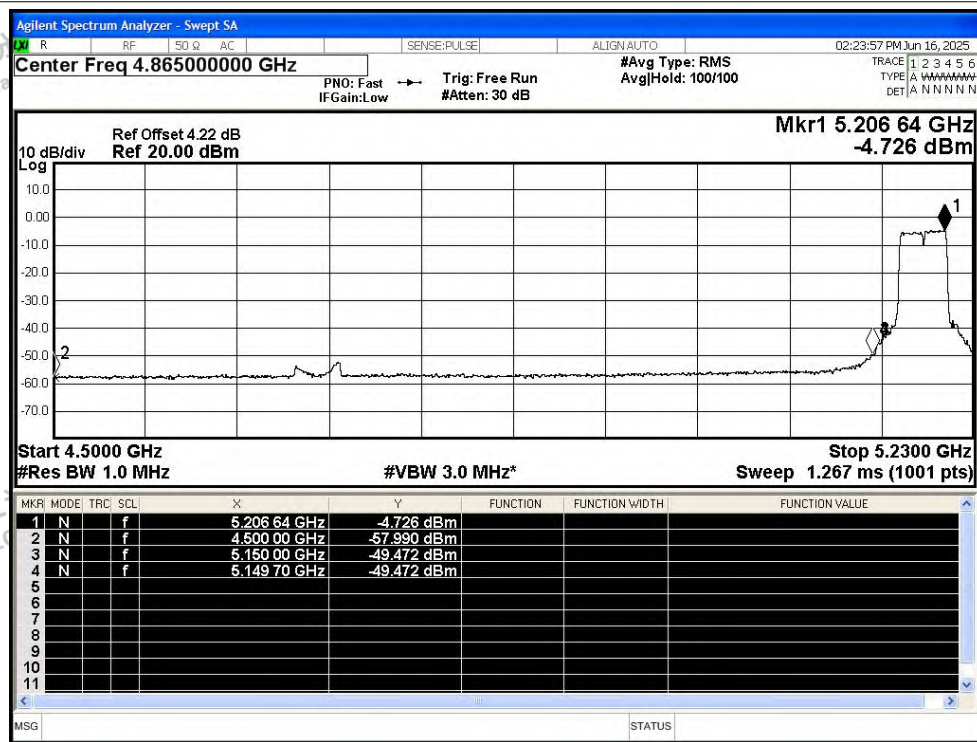
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Restrict Band NVNT ac40 5190MHz Ant1 Peak



Restrict Band NVNT ac40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

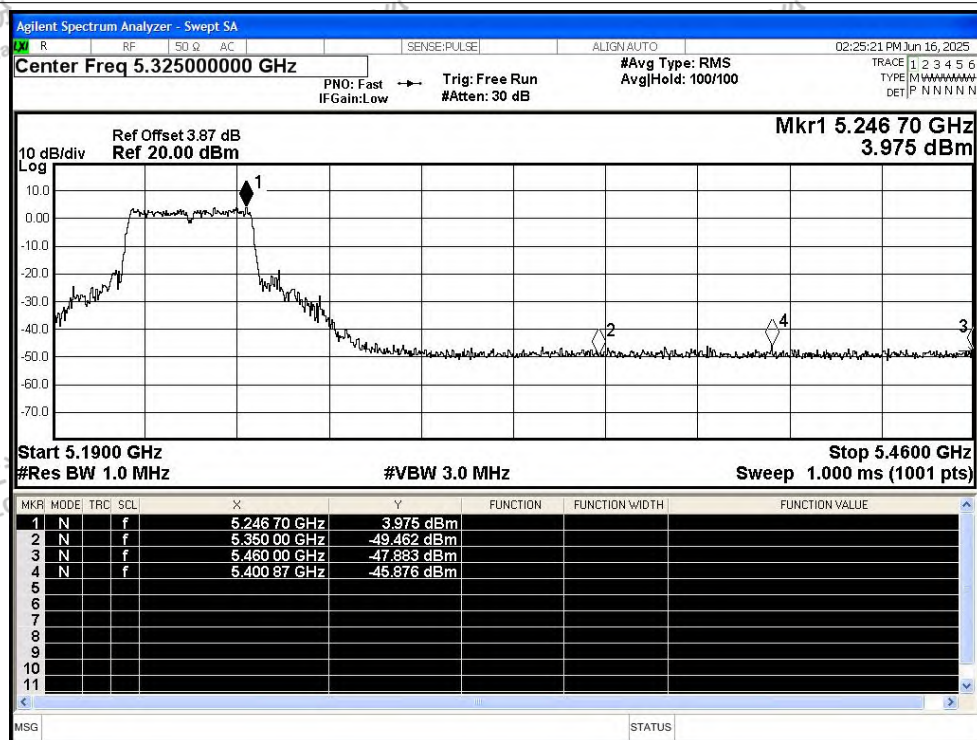
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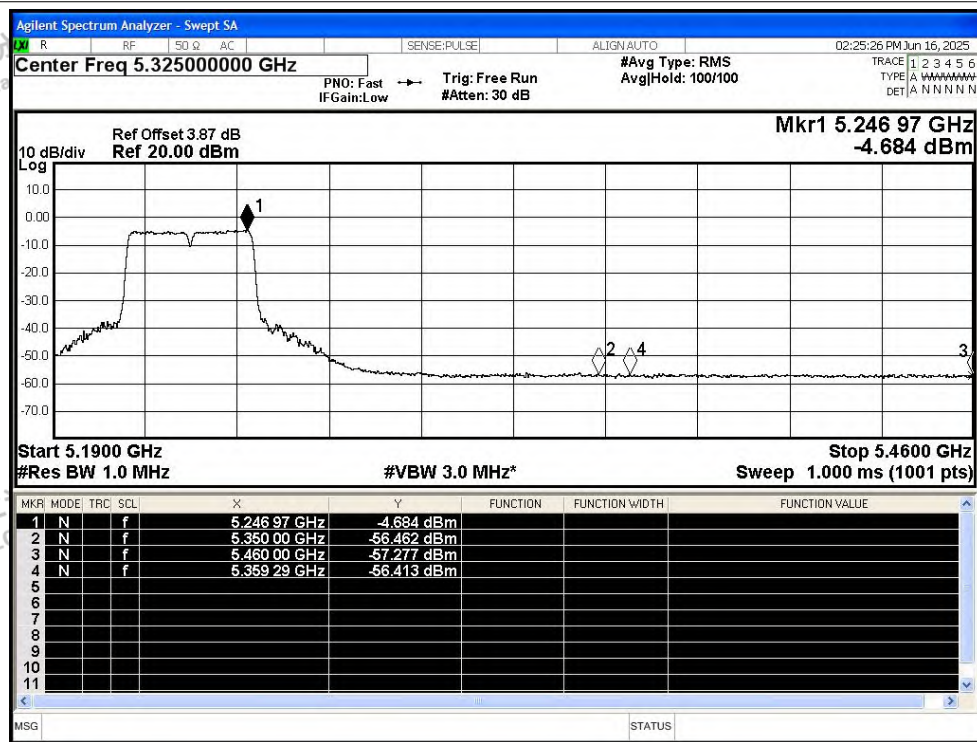
Scan code to check authenticity



Restrict Band NVNT ac40 5230MHz Ant1 Peak



Restrict Band NVNT ac40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

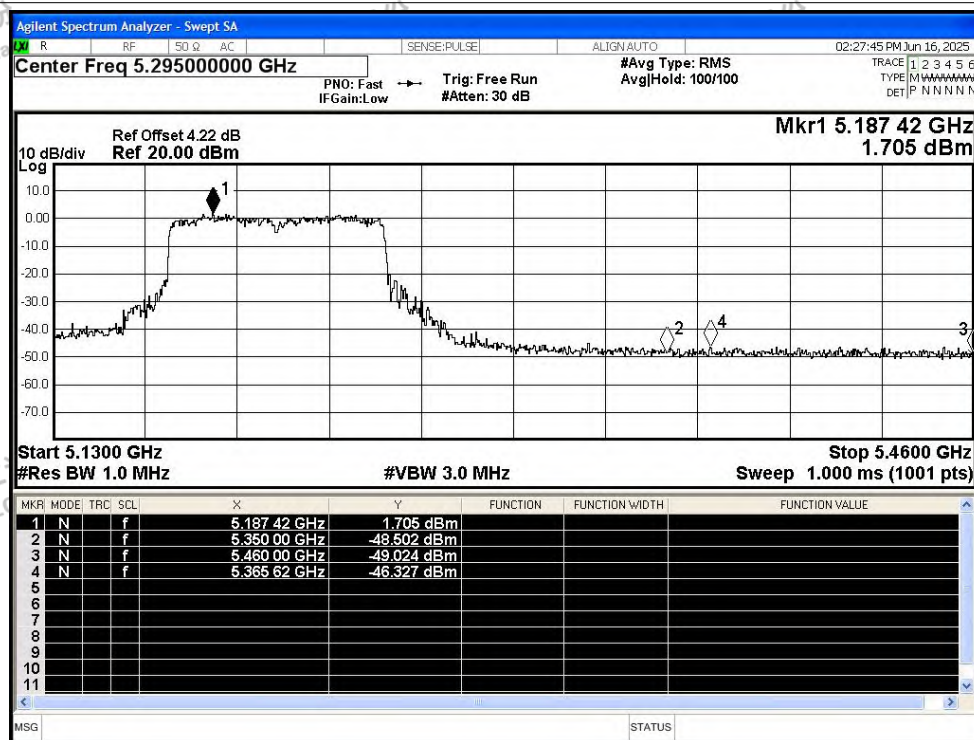
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

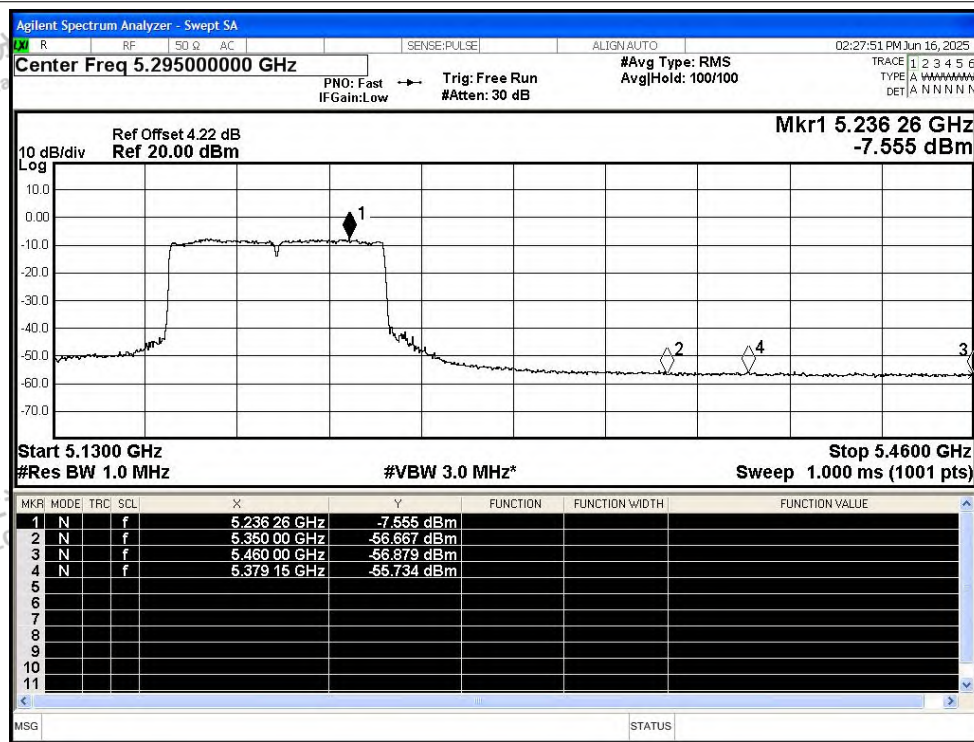
Scan code to check authenticity



Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

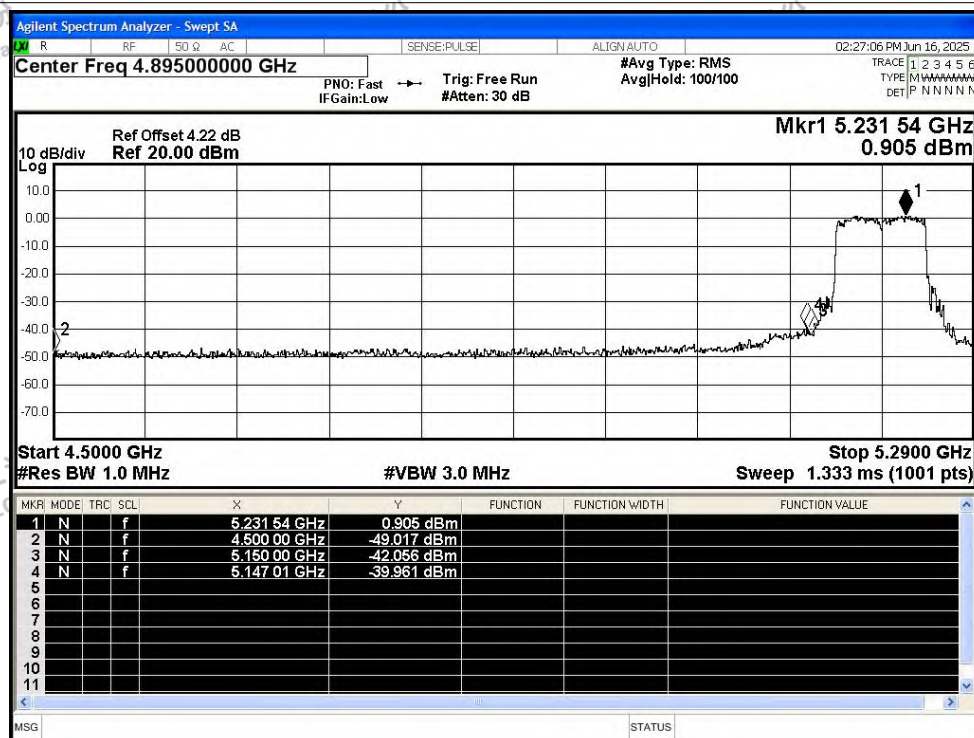
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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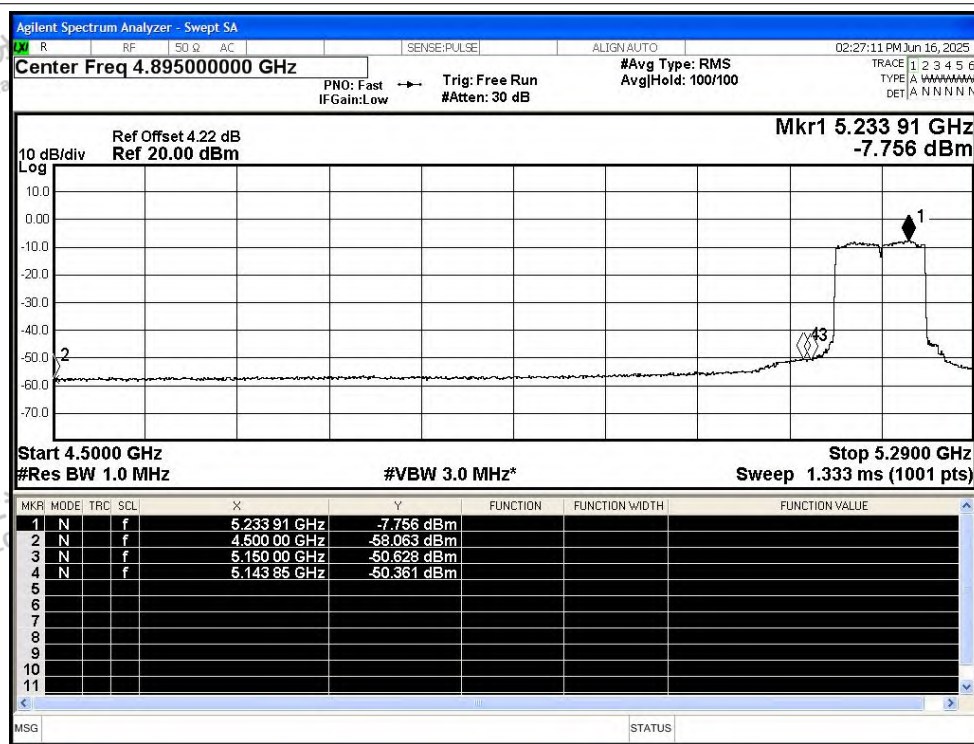
Scan code to check authenticity



Restrict Band NVNT ac80 5210MHz Ant1 Peak



Restrict Band NVNT ac80 5210MHz 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	5180	0	0	25	Pass
NVNT	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	a	5240	Ant1	5240	0	0	25	Pass
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	0	0	25	Pass
NVNT	n40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac20	5180	Ant1	5180	0	0	25	Pass
NVNT	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
NVNT	ac20	5240	Ant1	5240	0	0	25	Pass
NVNT	ac40	5190	Ant1	5190	0	0	25	Pass
NVNT	ac40	5230	Ant1	5230	0	0	25	Pass
NVNT	ac80	5210	Ant1	5210	0	0	25	Pass

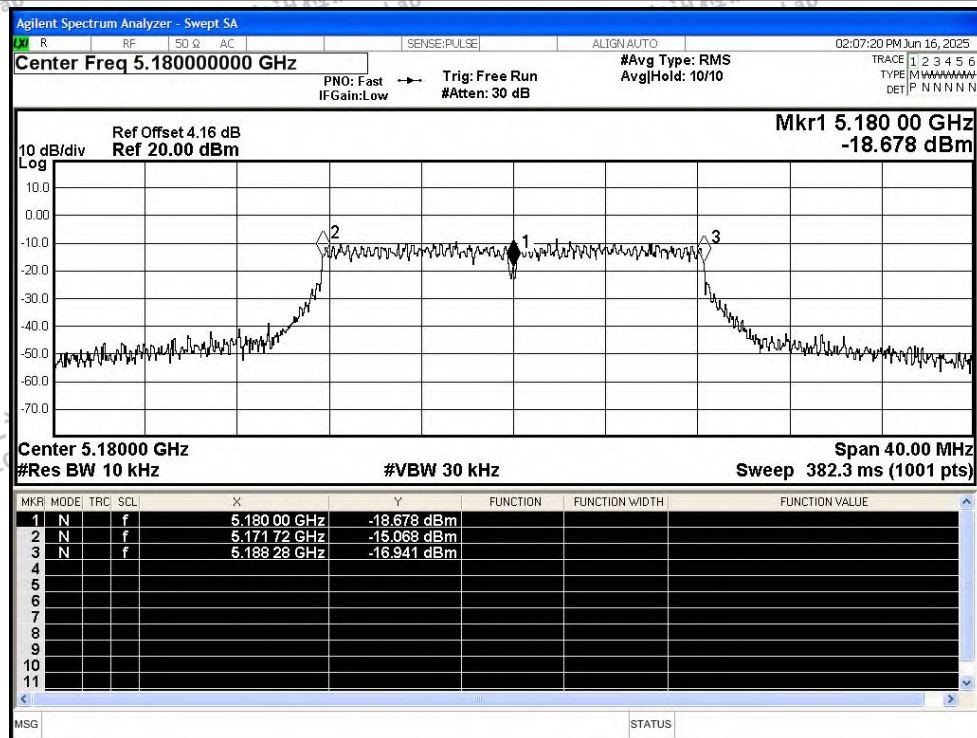


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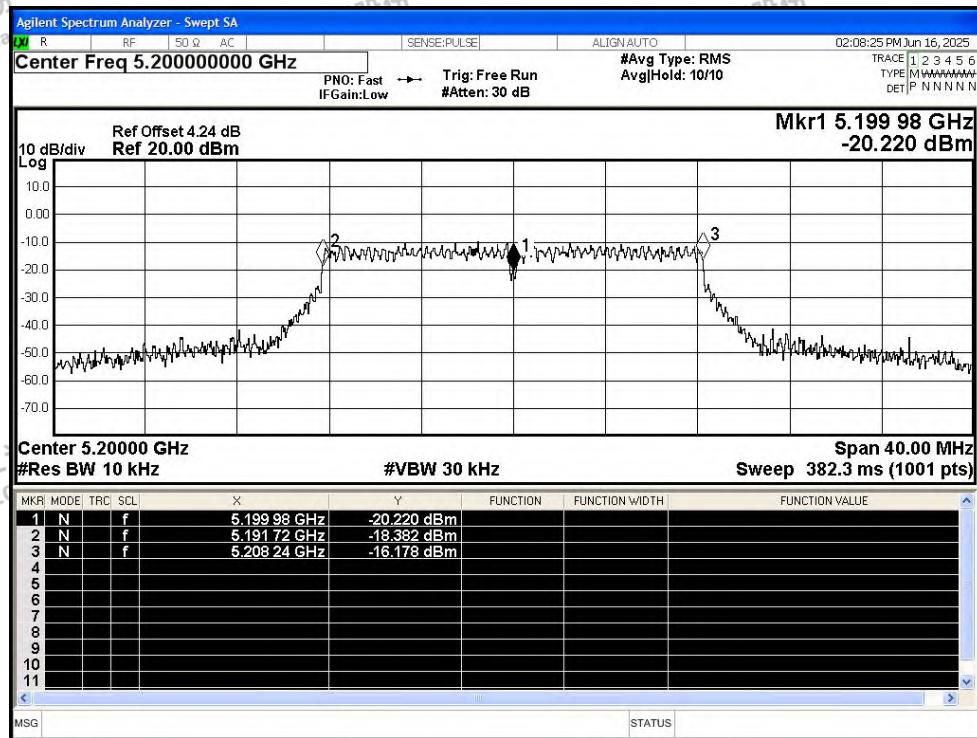


Test Graphs

Freq. Stability NVNT a 5180MHz Ant1



Freq. Stability NVNT a 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

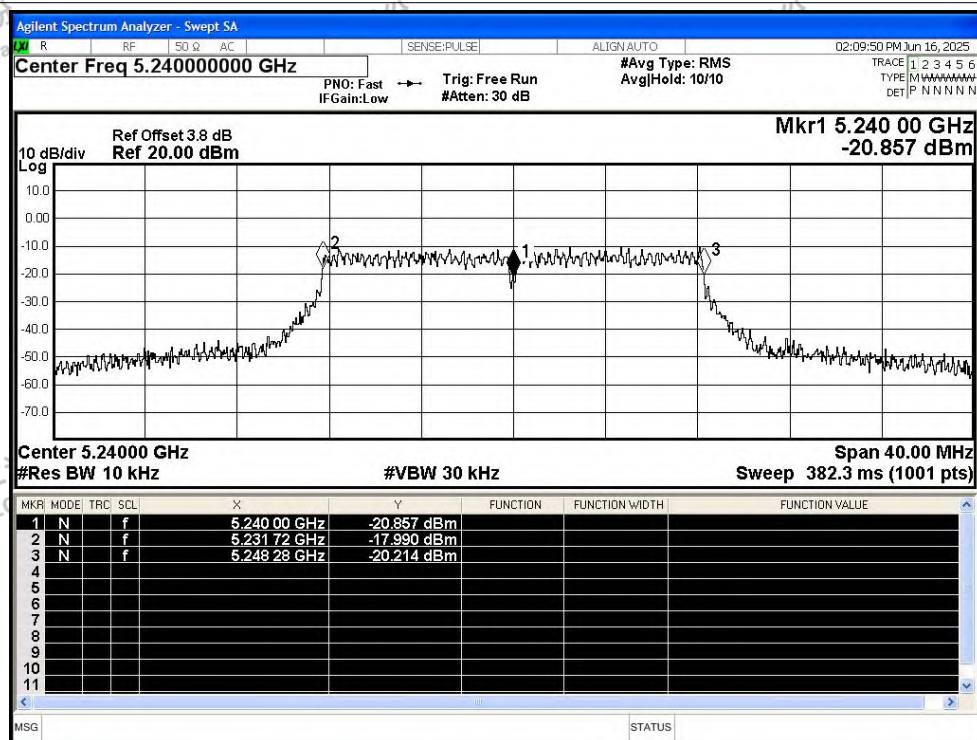
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

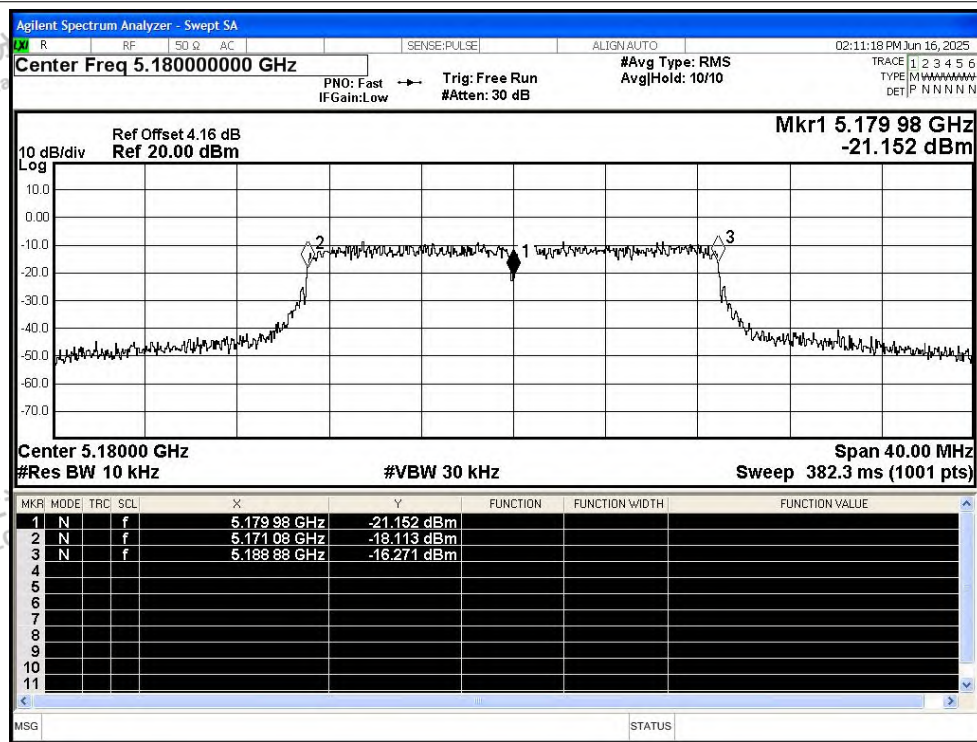
Scan code to check authenticity



Freq. Stability NVNT a 5240MHz Ant1



Freq. Stability NVNT n20 5180MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

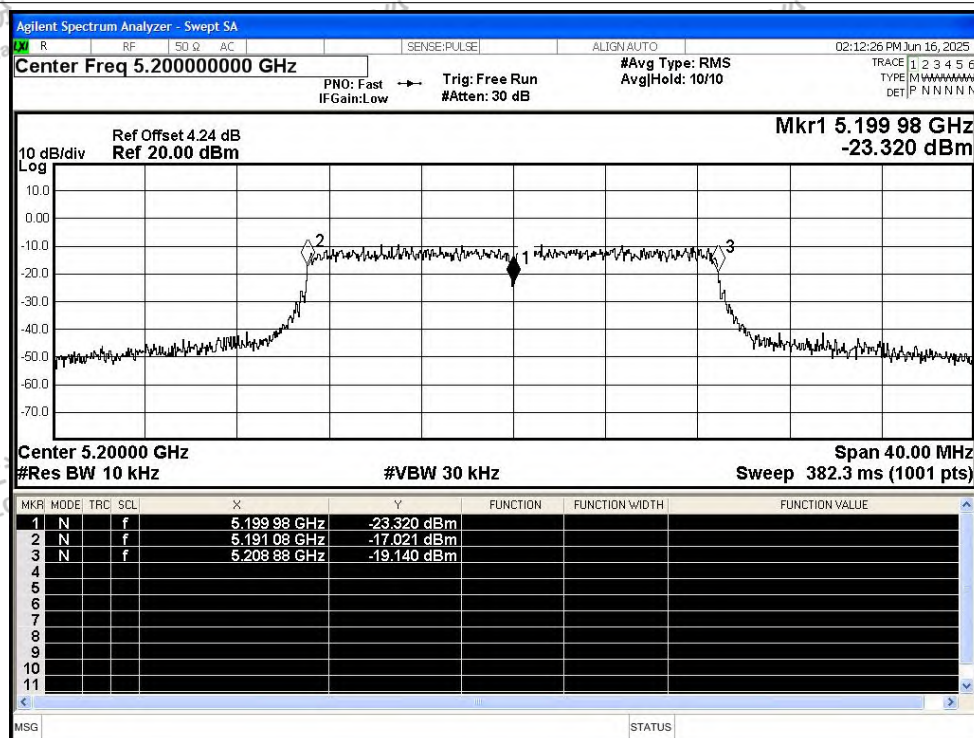
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

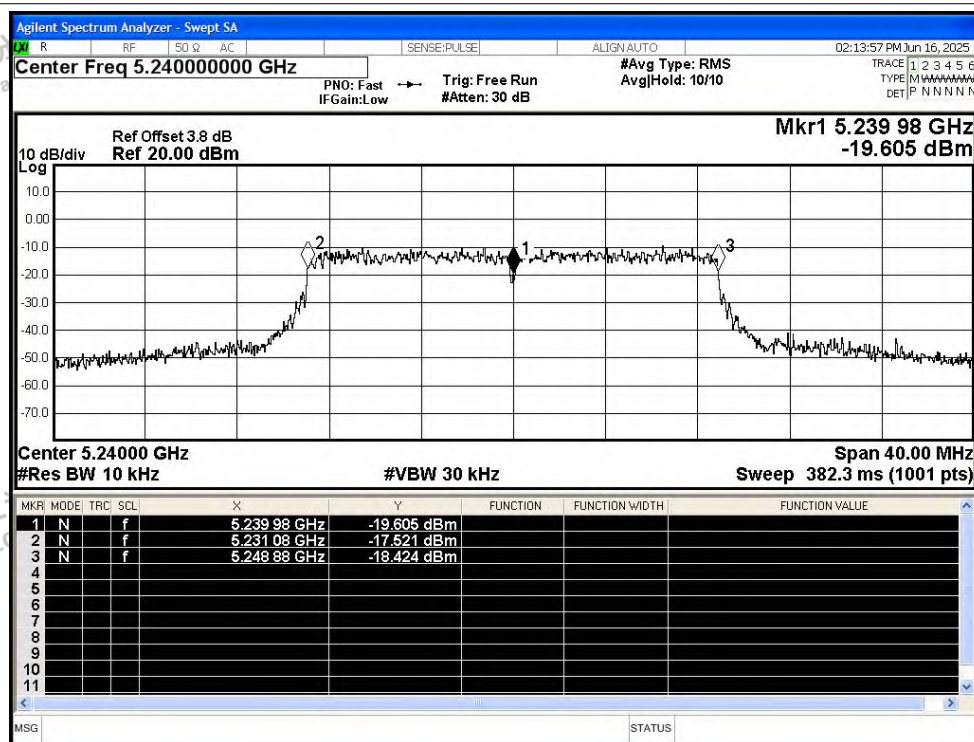
Scan code to check authenticity



Freq. Stability NVNT n20 5200MHz Ant1



Freq. Stability NVNT n20 5240MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

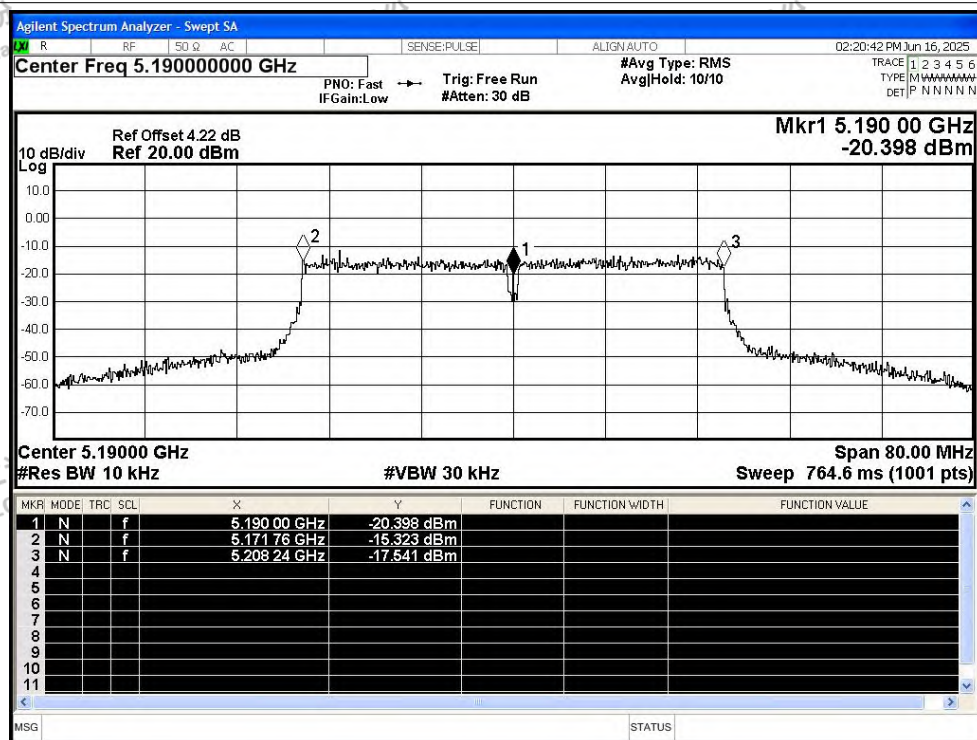
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

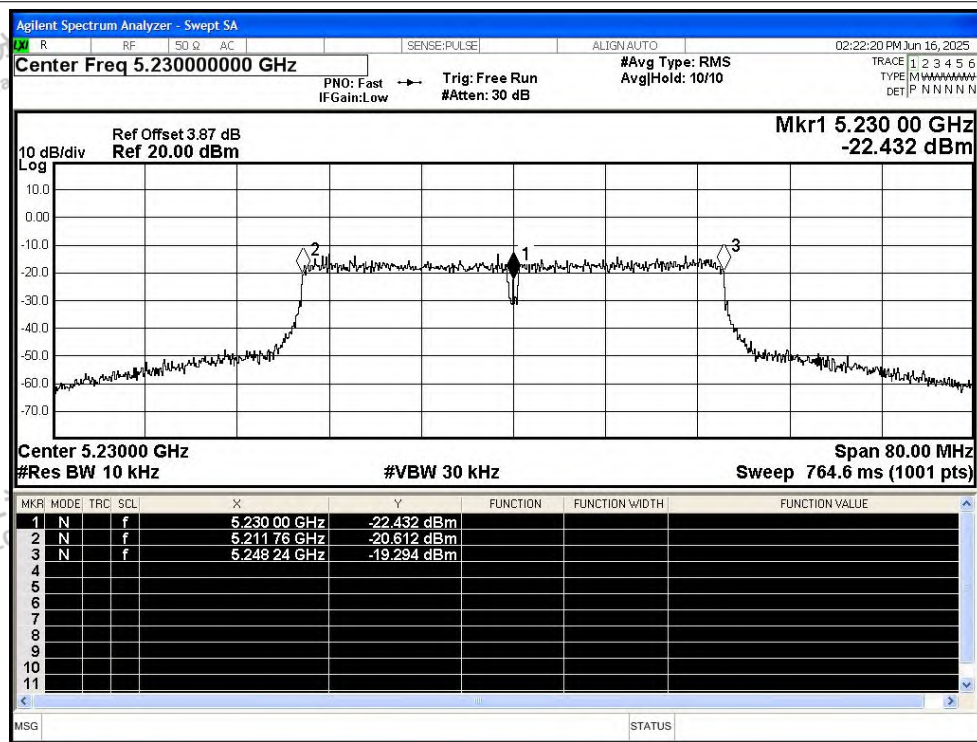
Scan code to check authenticity



Freq. Stability NVNT n40 5190MHz Ant1



Freq. Stability NVNT n40 5230MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

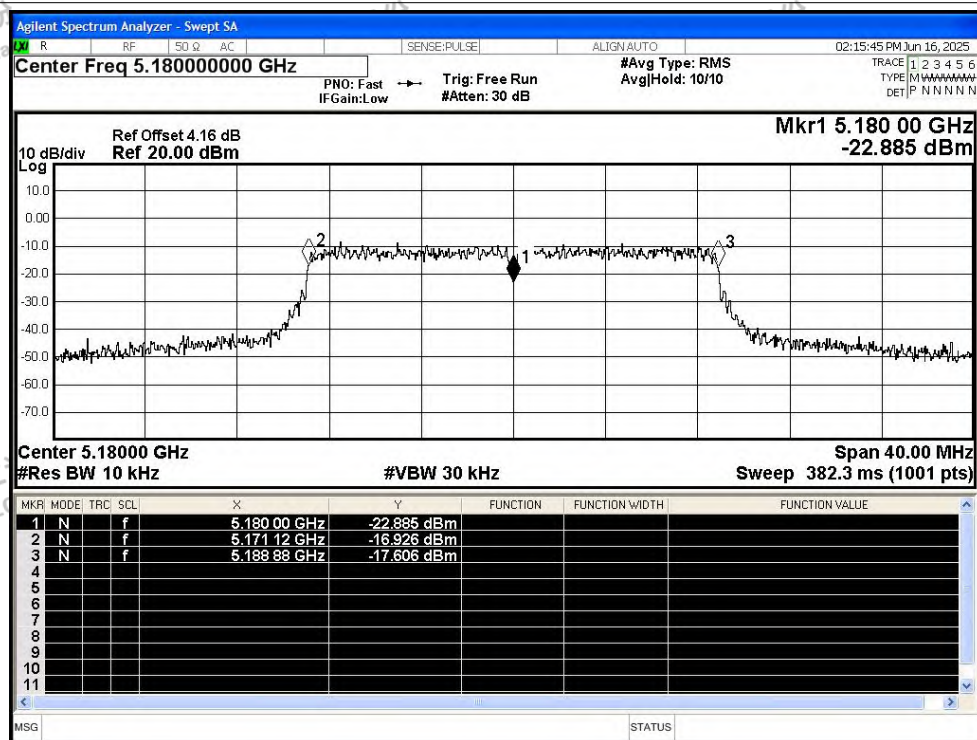
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

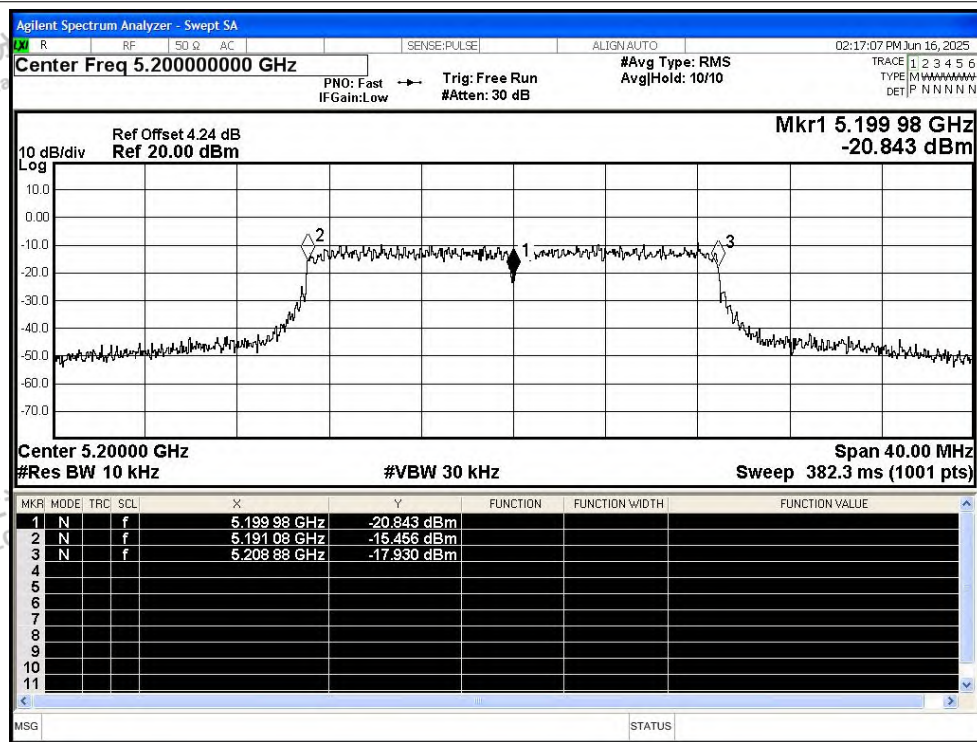
Scan code to check authenticity



Freq. Stability NVNT ac20 5180MHz Ant1



Freq. Stability NVNT ac20 5200MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

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