



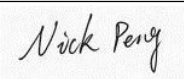
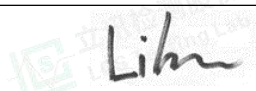
Appendix D

RF Test Data for 5.2G WIFI (Conducted Measurement)

Product Name: LED PROJECTOR

Test Model: L003A

Environmental Conditions

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





D.1 -26dB Bandwidth

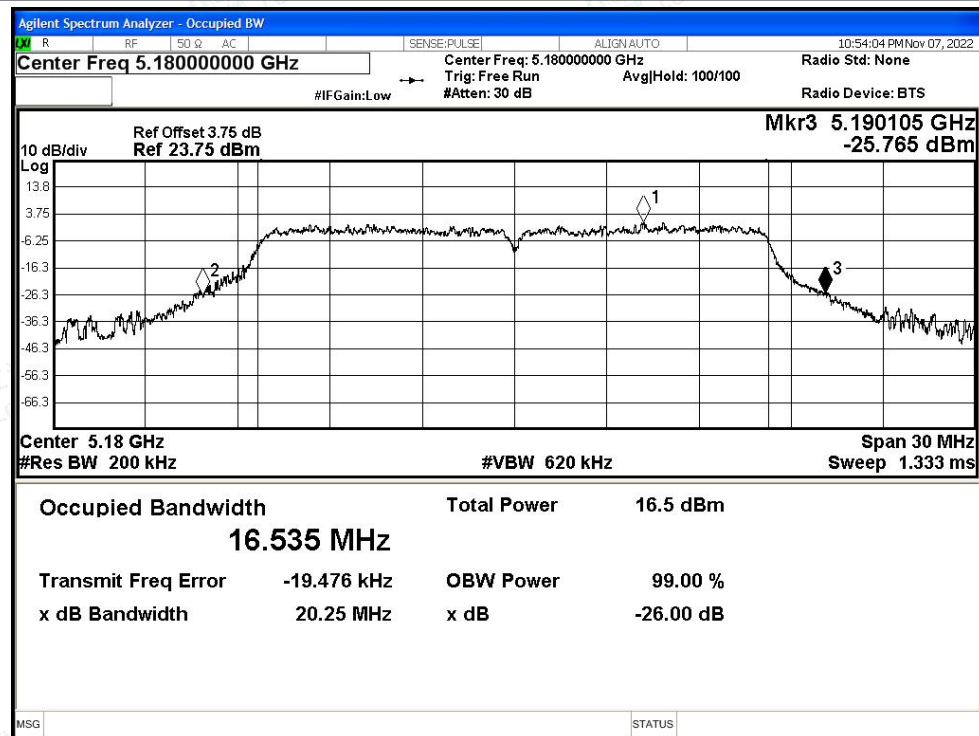
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5180	Ant1	20.249	---	Pass
NVNT	a	5200	Ant1	20.204	---	Pass
NVNT	a	5240	Ant1	20.001	---	Pass
NVNT	n20	5180	Ant1	21.138	---	Pass
NVNT	n20	5200	Ant1	20.974	---	Pass
NVNT	n20	5240	Ant1	21.297	---	Pass
NVNT	n40	5190	Ant1	41.357	---	Pass
NVNT	n40	5230	Ant1	41.542	---	Pass
NVNT	ac20	5180	Ant1	21.284	---	Pass
NVNT	ac20	5200	Ant1	21.229	---	Pass
NVNT	ac20	5240	Ant1	21.057	---	Pass
NVNT	ac40	5190	Ant1	41.211	---	Pass
NVNT	ac40	5230	Ant1	41.436	---	Pass
NVNT	ac80	5210	Ant1	82.952	---	Pass



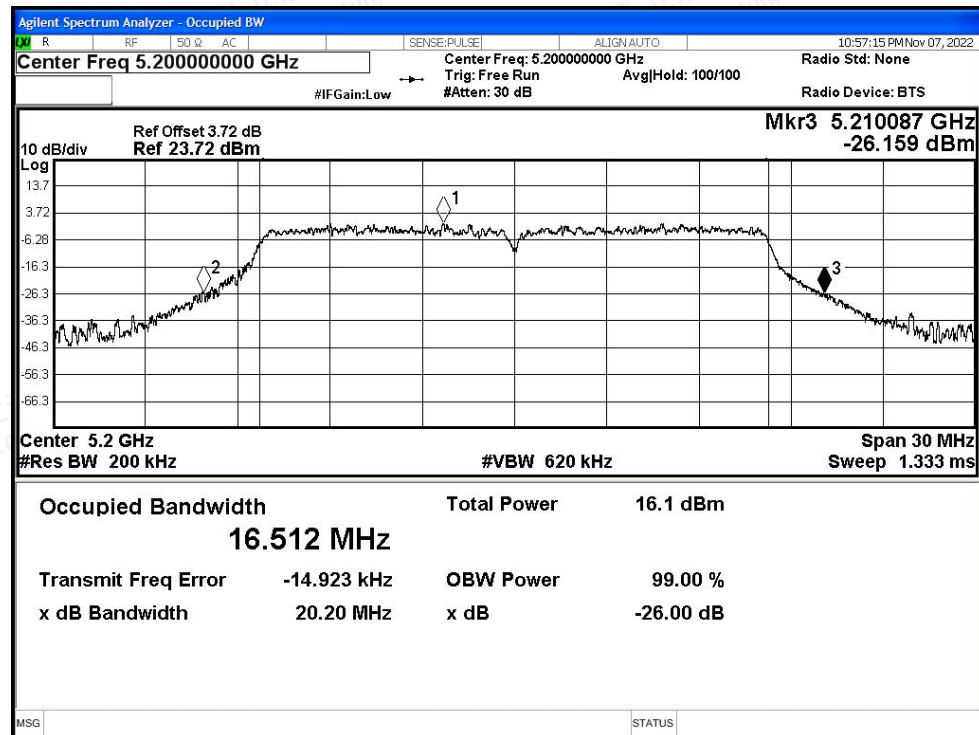


Test Graphs

-26dB Bandwidth NVNT a 5180MHz Ant1



-26dB Bandwidth NVNT a 5200MHz Ant1



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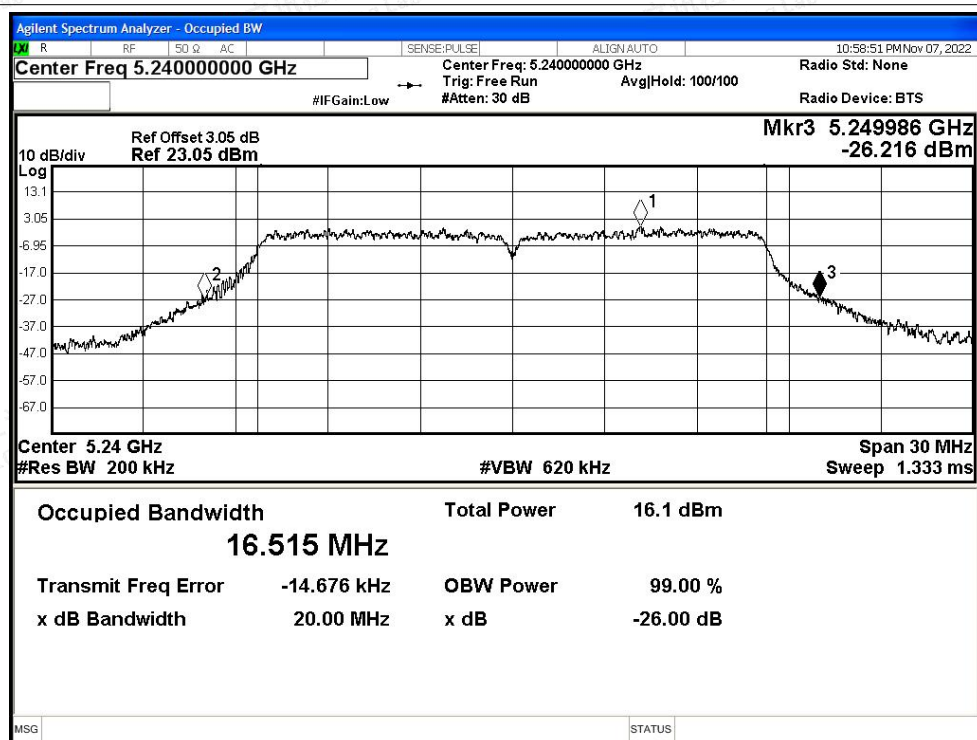
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

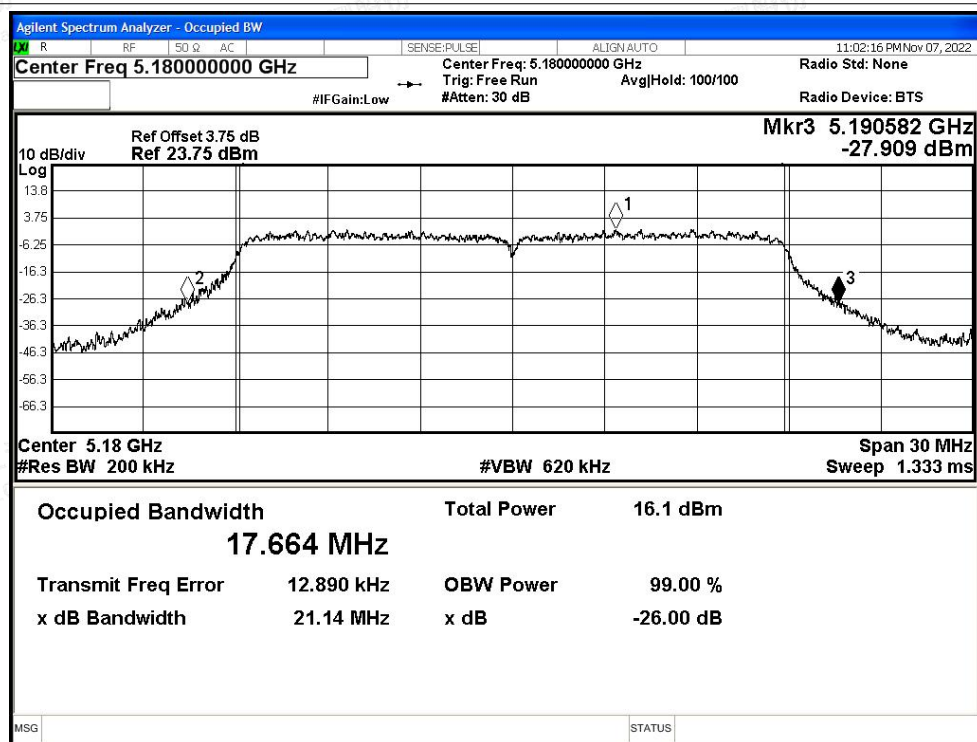
Scan code to check authenticity



-26dB Bandwidth NVNT a 5240MHz Ant1



-26dB Bandwidth NVNT n20 5180MHz Ant1



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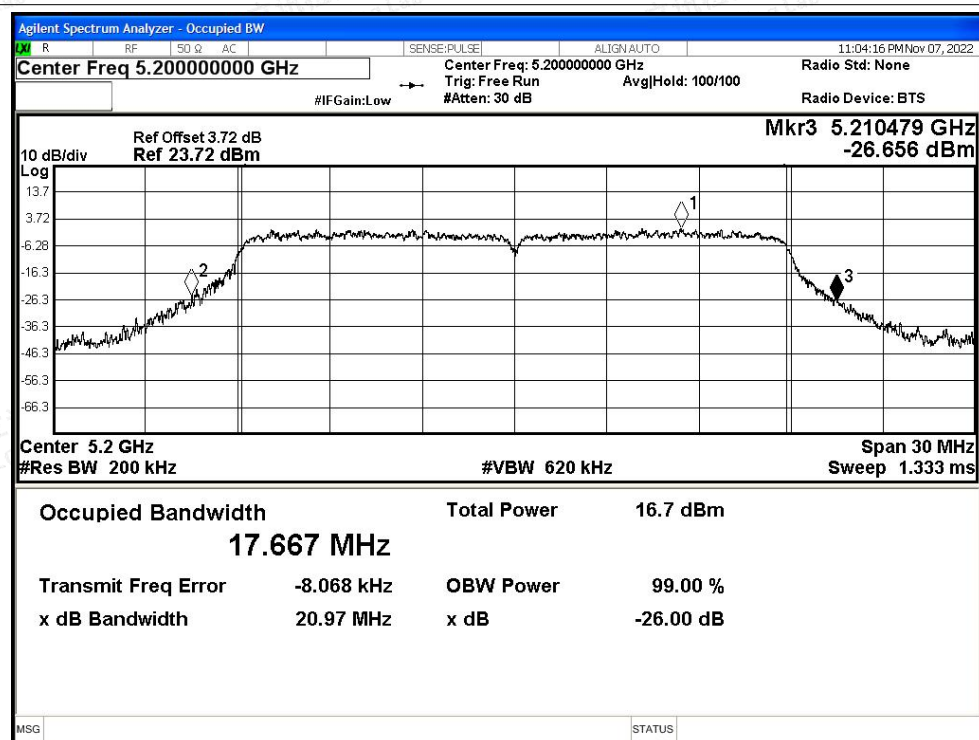
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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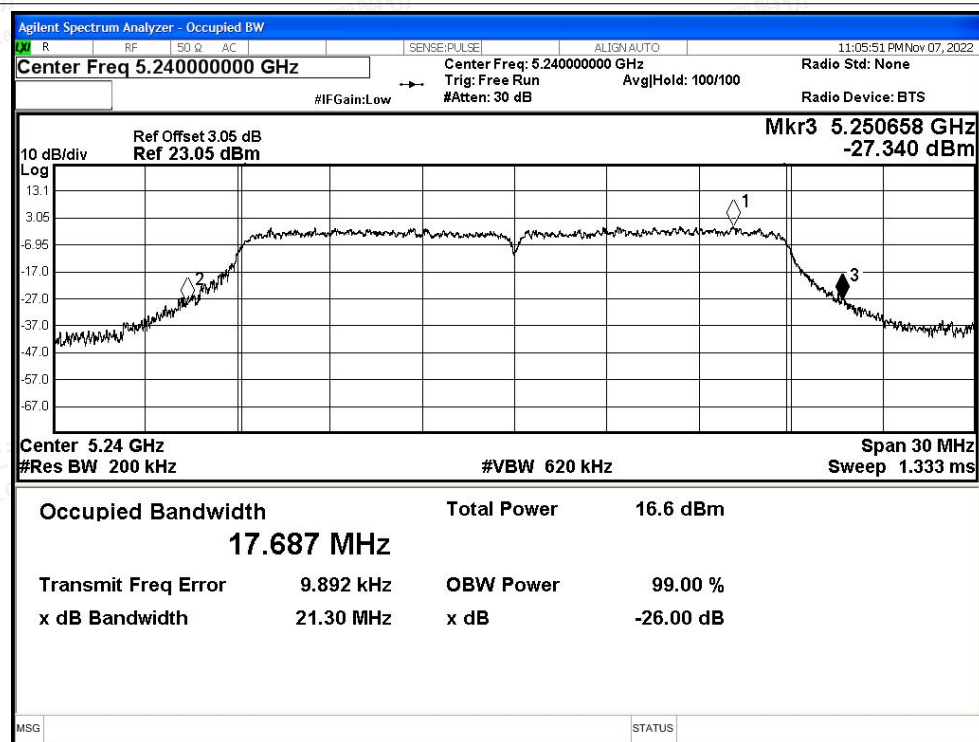
Scan code to check authenticity



-26dB Bandwidth NVNT n20 5200MHz Ant1



-26dB Bandwidth NVNT n20 5240MHz Ant1



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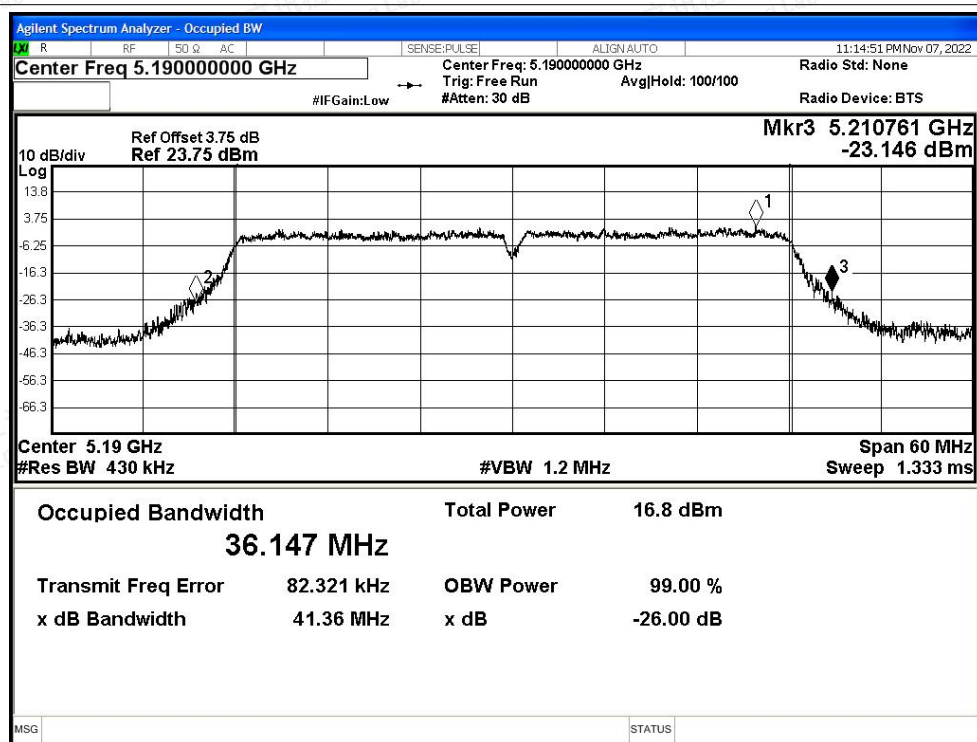
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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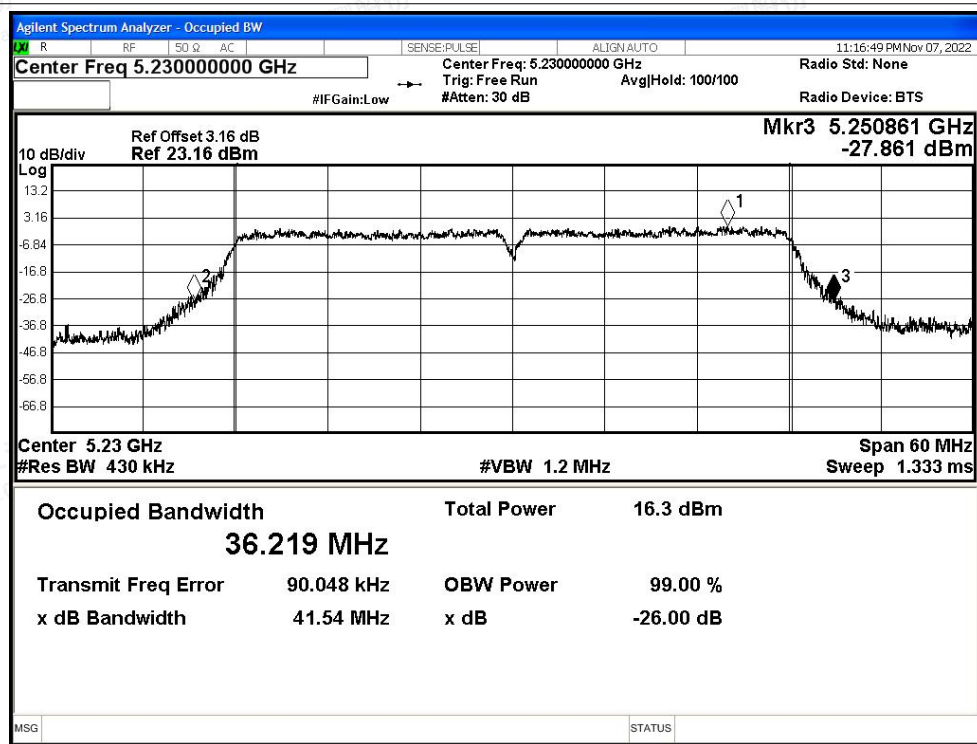
Scan code to check authenticity



-26dB Bandwidth NVNT n40 5190MHz Ant1



-26dB Bandwidth NVNT n40 5230MHz Ant1



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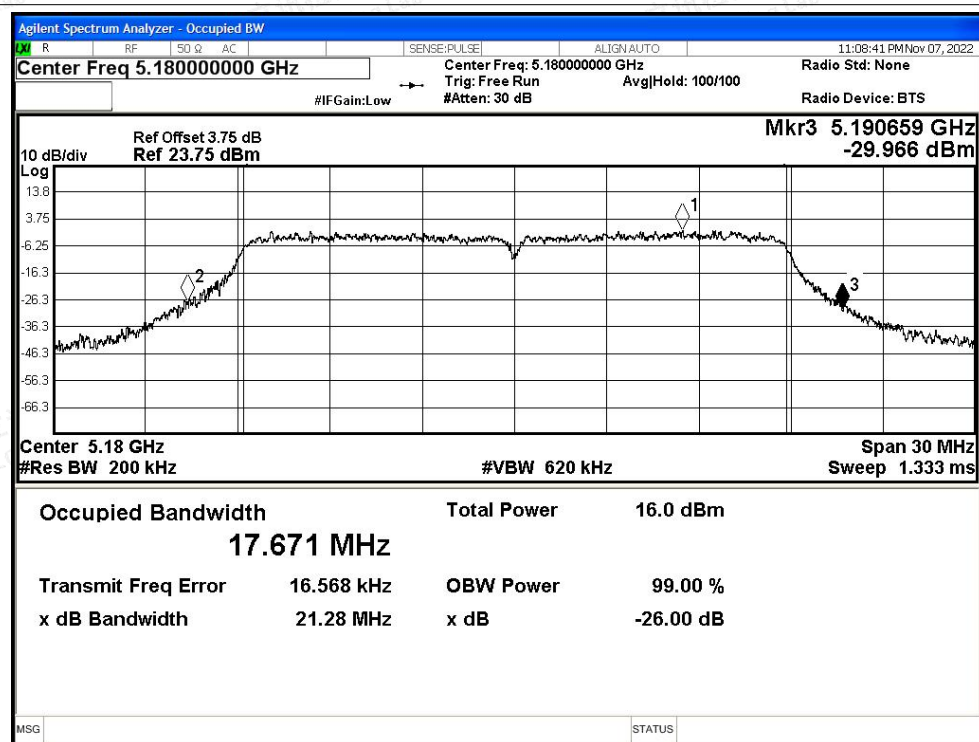
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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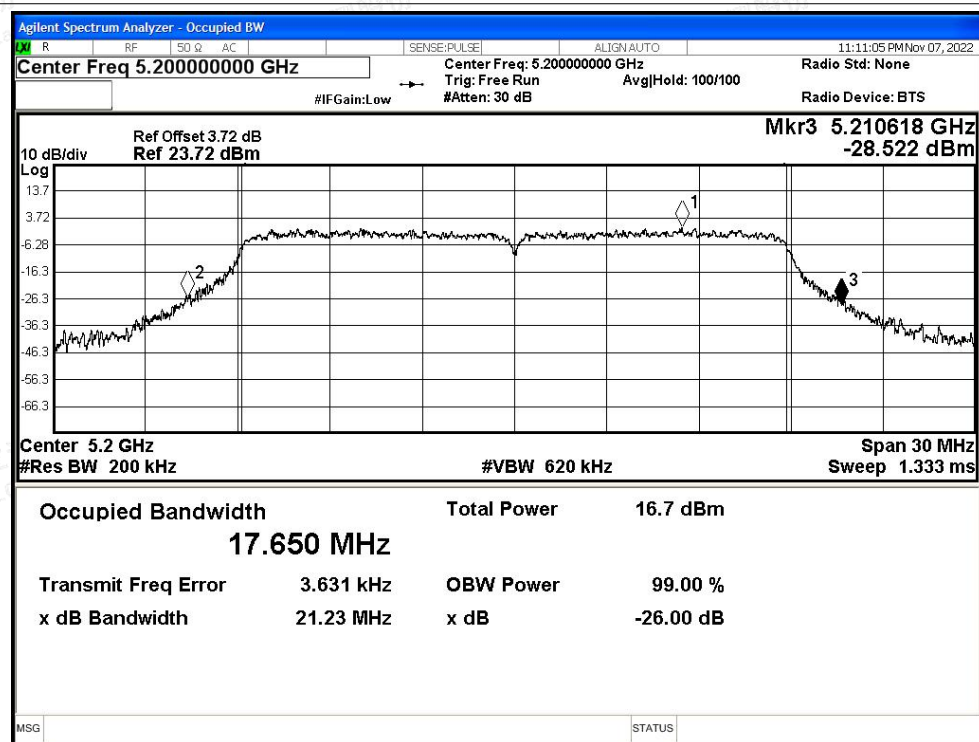
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5180MHz Ant1



-26dB Bandwidth NVNT ac20 5200MHz Ant1



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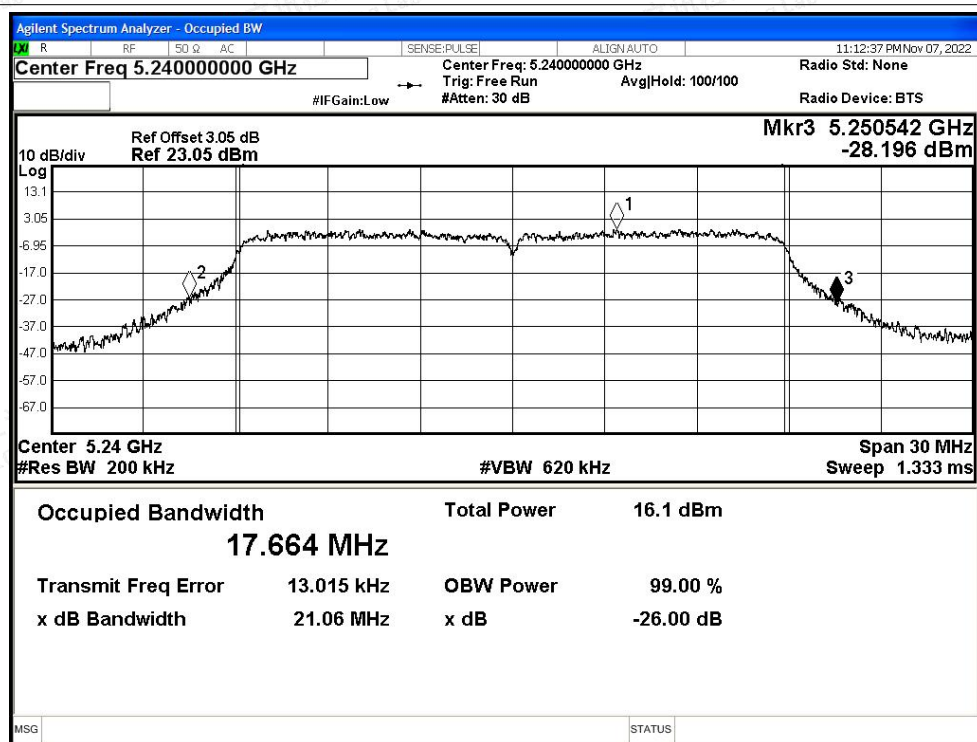
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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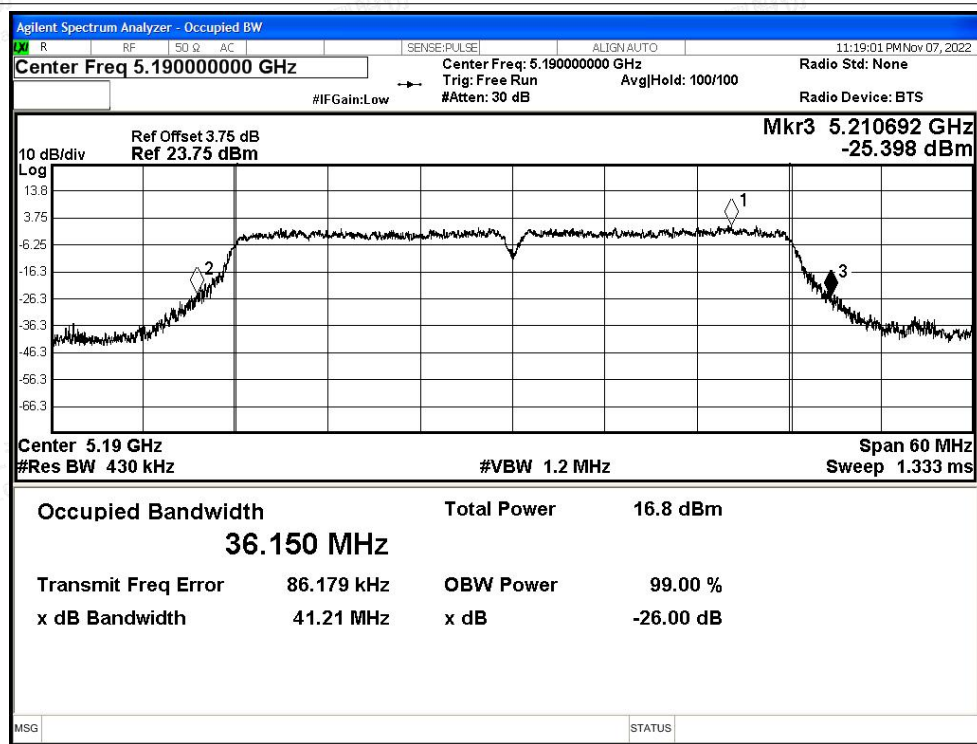
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5240MHz Ant1



-26dB Bandwidth NVNT ac40 5190MHz Ant1



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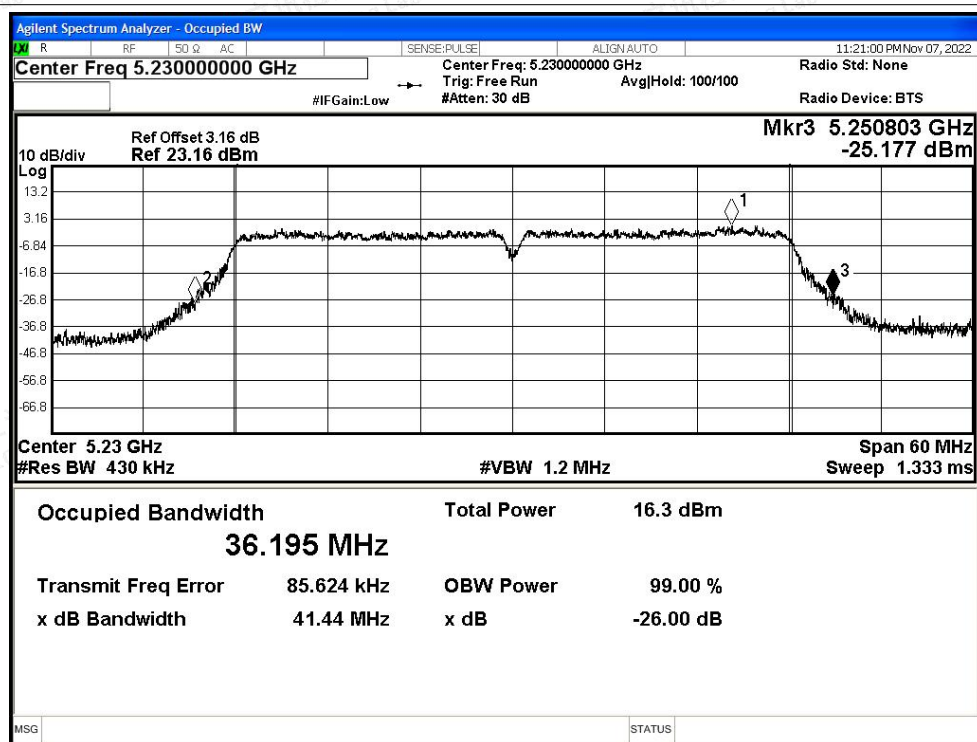
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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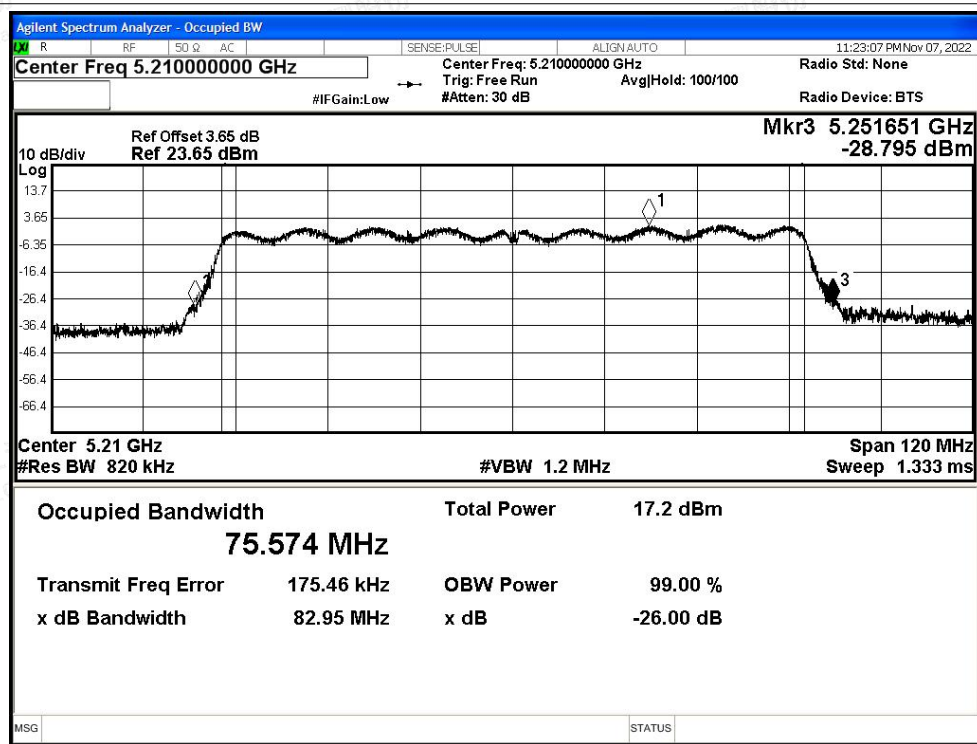
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-26dB Bandwidth NVNT ac40 5230MHz Ant1



-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	11.18	0	11.18	24	Pass
NVNT	a	5200	Ant1	10.71	0	10.71	24	Pass
NVNT	a	5240	Ant1	10.59	0	10.59	24	Pass
NVNT	n20	5180	Ant1	10.84	0	10.84	24	Pass
NVNT	n20	5200	Ant1	11.45	0	11.45	24	Pass
NVNT	n20	5240	Ant1	11.34	0	11.34	24	Pass
NVNT	n40	5190	Ant1	11.41	0	11.41	24	Pass
NVNT	n40	5230	Ant1	10.75	0	10.75	24	Pass
NVNT	ac20	5180	Ant1	10.89	0	10.89	24	Pass
NVNT	ac20	5200	Ant1	11.5	0	11.5	24	Pass
NVNT	ac20	5240	Ant1	10.92	0	10.92	24	Pass
NVNT	ac40	5190	Ant1	11.36	0	11.36	24	Pass
NVNT	ac40	5230	Ant1	10.77	0	10.77	24	Pass
NVNT	ac80	5210	Ant1	11.02	0	11.02	24	Pass





D.3 Maximum Power Spectral Density Level

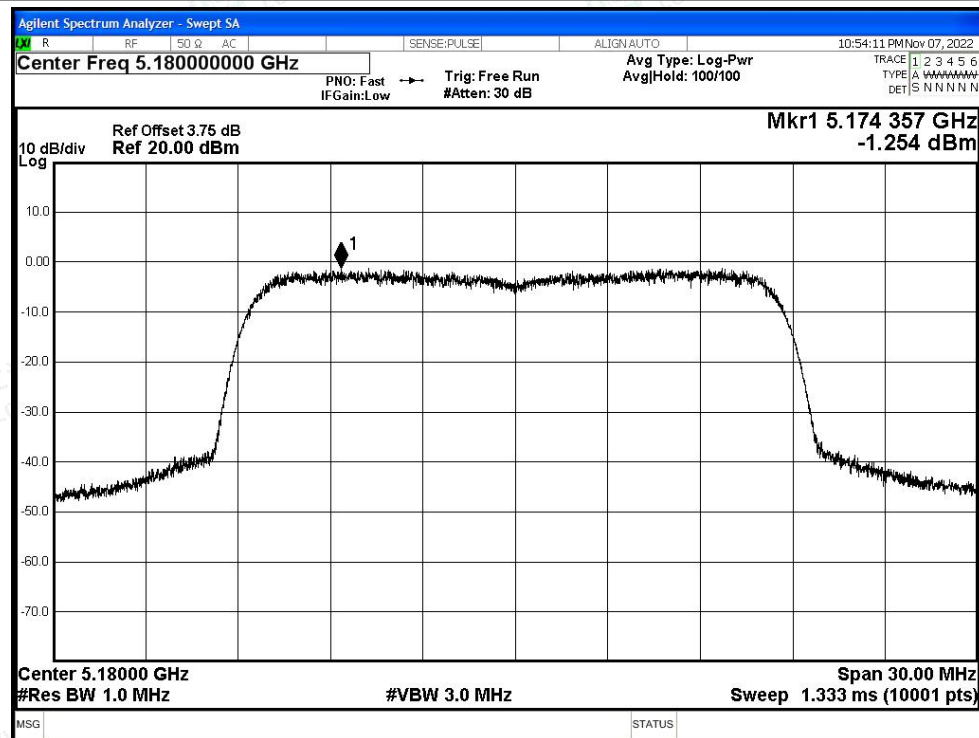
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	a	5180	Ant1	-1.25	0	-1.25	11	Pass
NVNT	a	5200	Ant1	-1.35	0	-1.35	11	Pass
NVNT	a	5240	Ant1	-1.65	0	-1.65	11	Pass
NVNT	n20	5180	Ant1	-1.37	0	-1.37	11	Pass
NVNT	n20	5200	Ant1	-1.2	0	-1.2	11	Pass
NVNT	n20	5240	Ant1	-1.12	0	-1.12	11	Pass
NVNT	n40	5190	Ant1	-4.03	0	-4.03	11	Pass
NVNT	n40	5230	Ant1	-4.7	0	-4.7	11	Pass
NVNT	ac20	5180	Ant1	-1.65	0	-1.65	11	Pass
NVNT	ac20	5200	Ant1	-1.23	0	-1.23	11	Pass
NVNT	ac20	5240	Ant1	-1.55	0	-1.55	11	Pass
NVNT	ac40	5190	Ant1	-3.97	0	-3.97	11	Pass
NVNT	ac40	5230	Ant1	-4.59	0	-4.59	11	Pass
NVNT	ac80	5210	Ant1	-6.47	0	-6.47	11	Pass



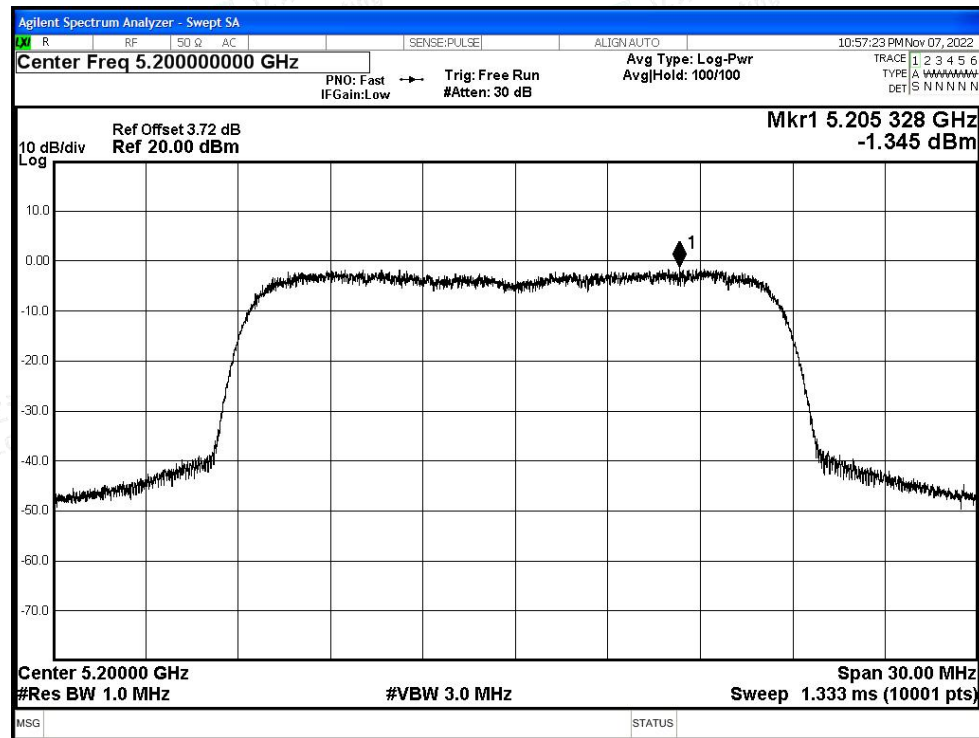


Test Graphs

PSD NVNT a 5180MHz Ant1

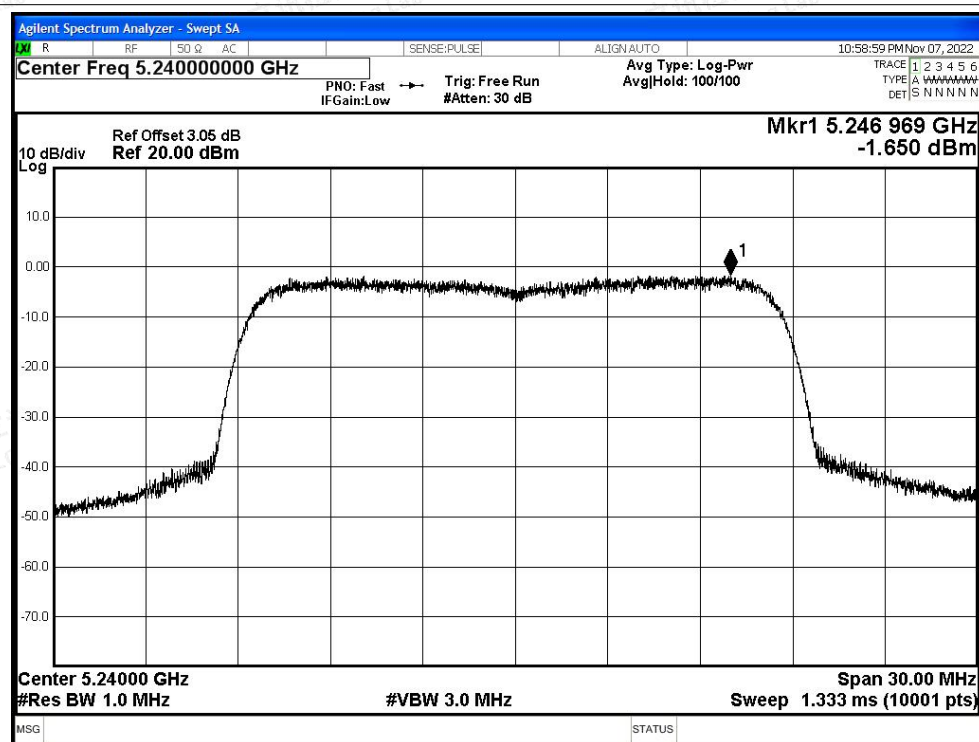


PSD NVNT a 5200MHz Ant1

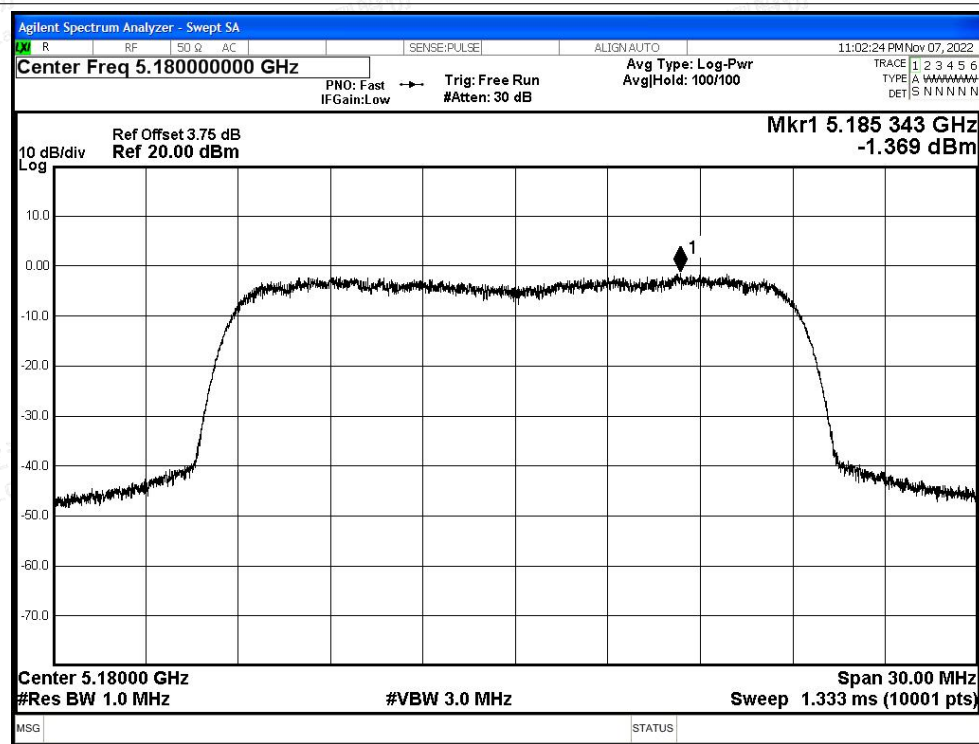




PSD NVNT a 5240MHz Ant1



PSD NVNT n20 5180MHz Ant1

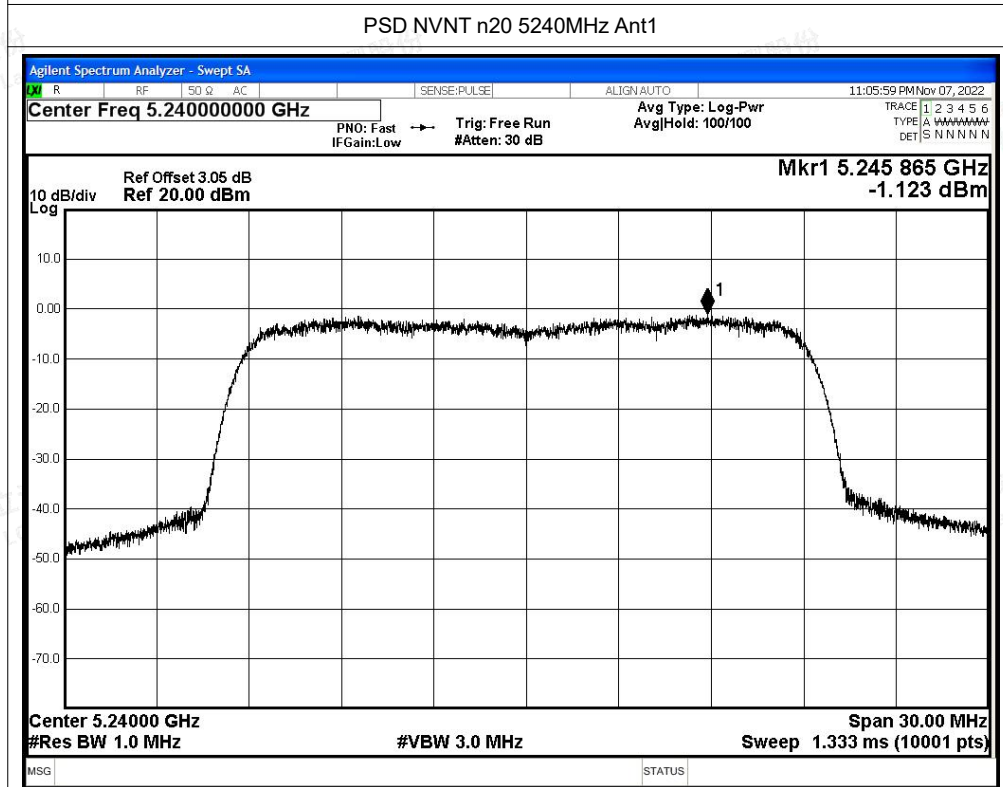
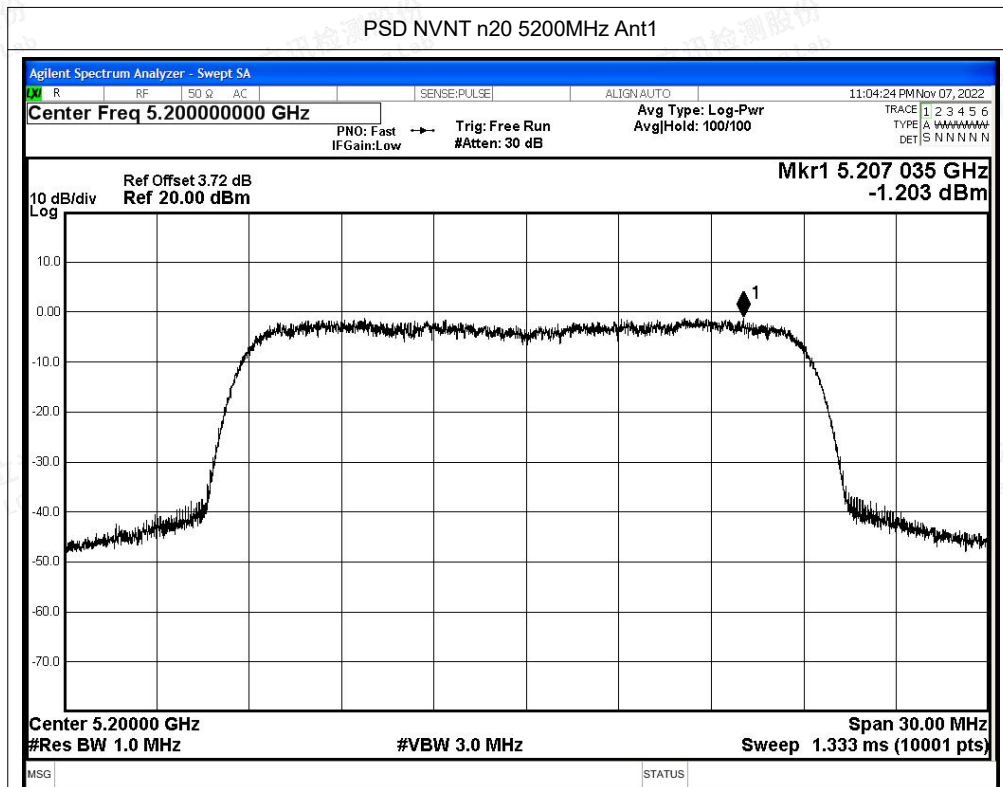


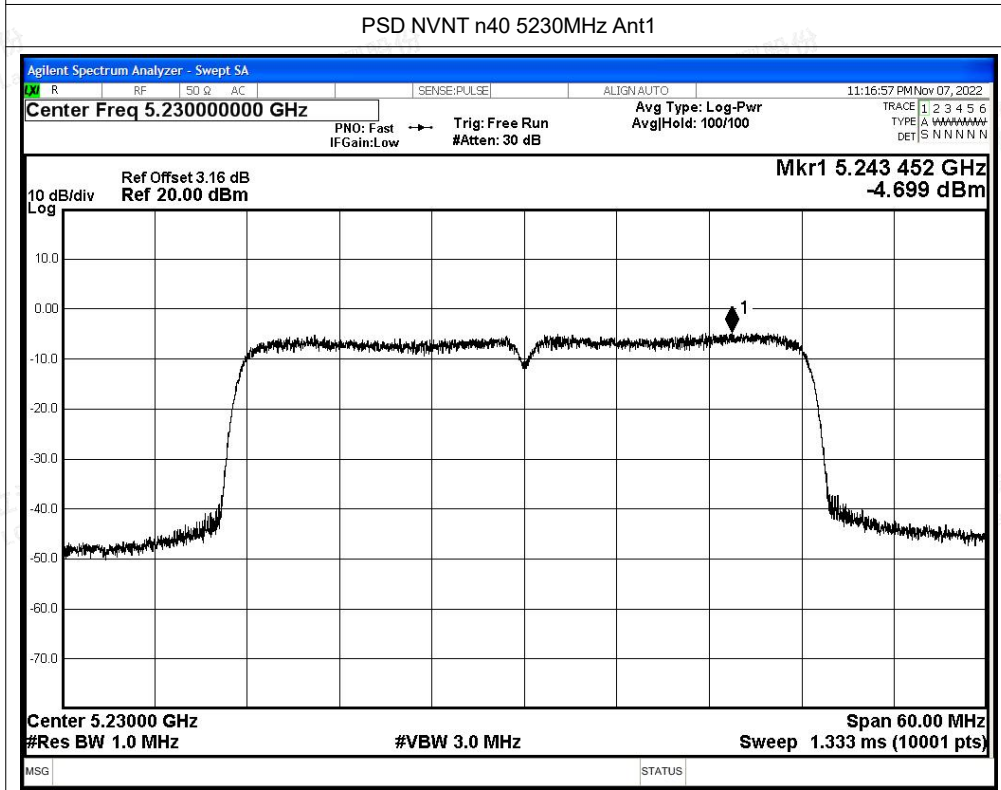
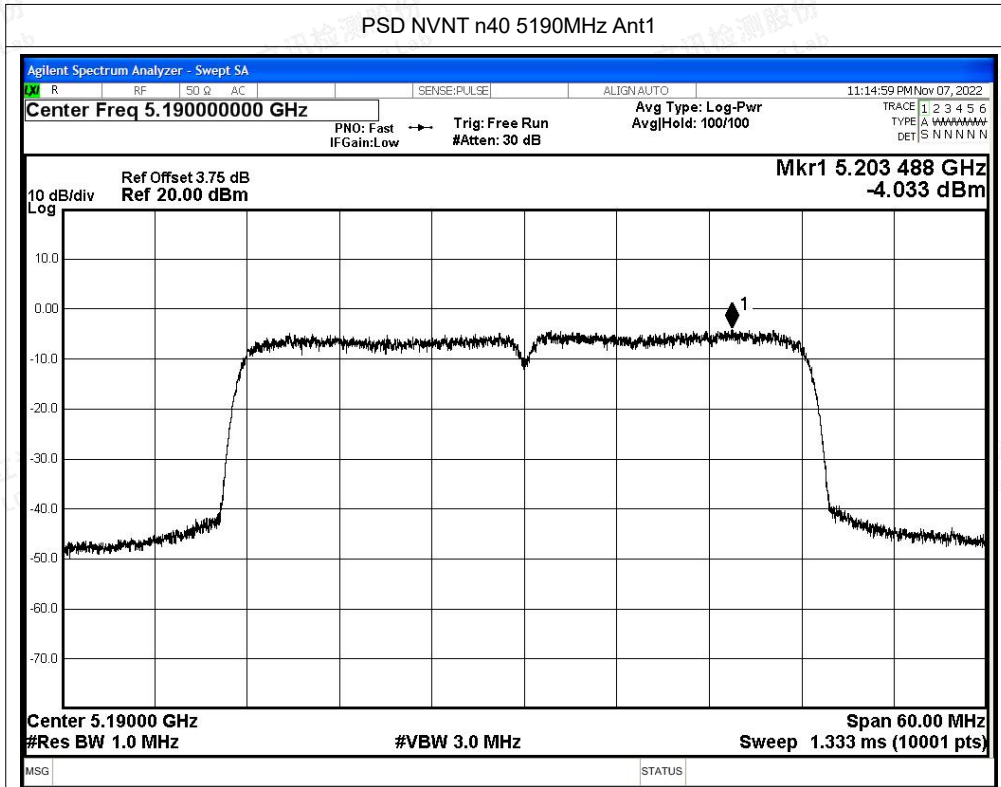
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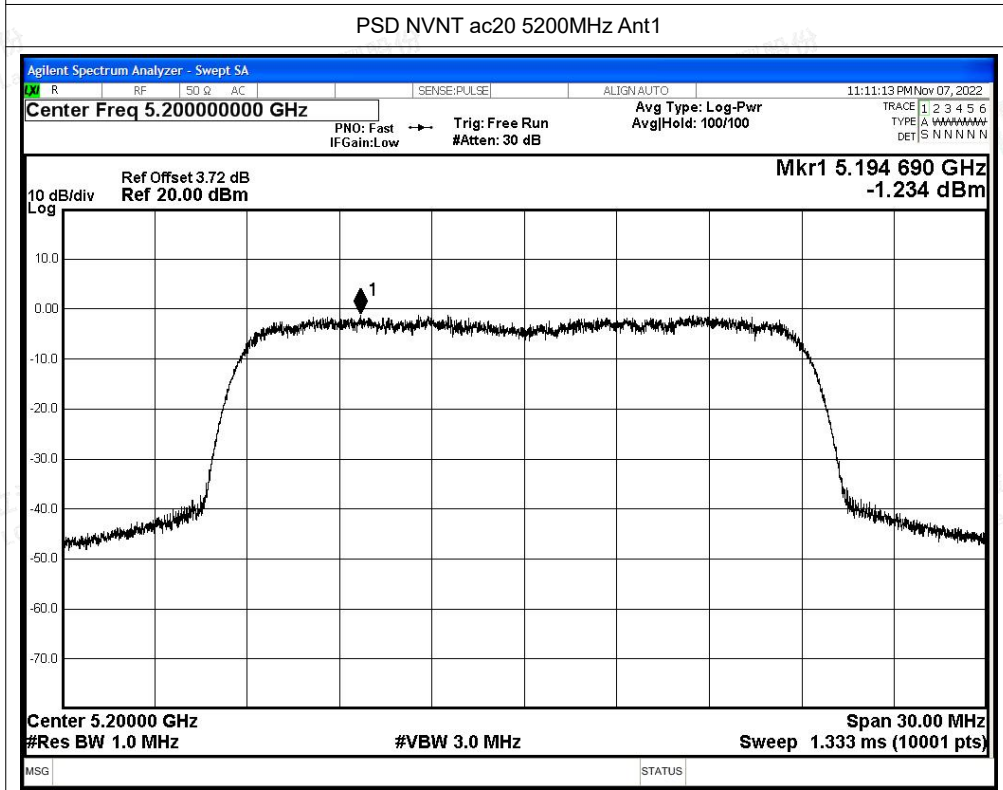
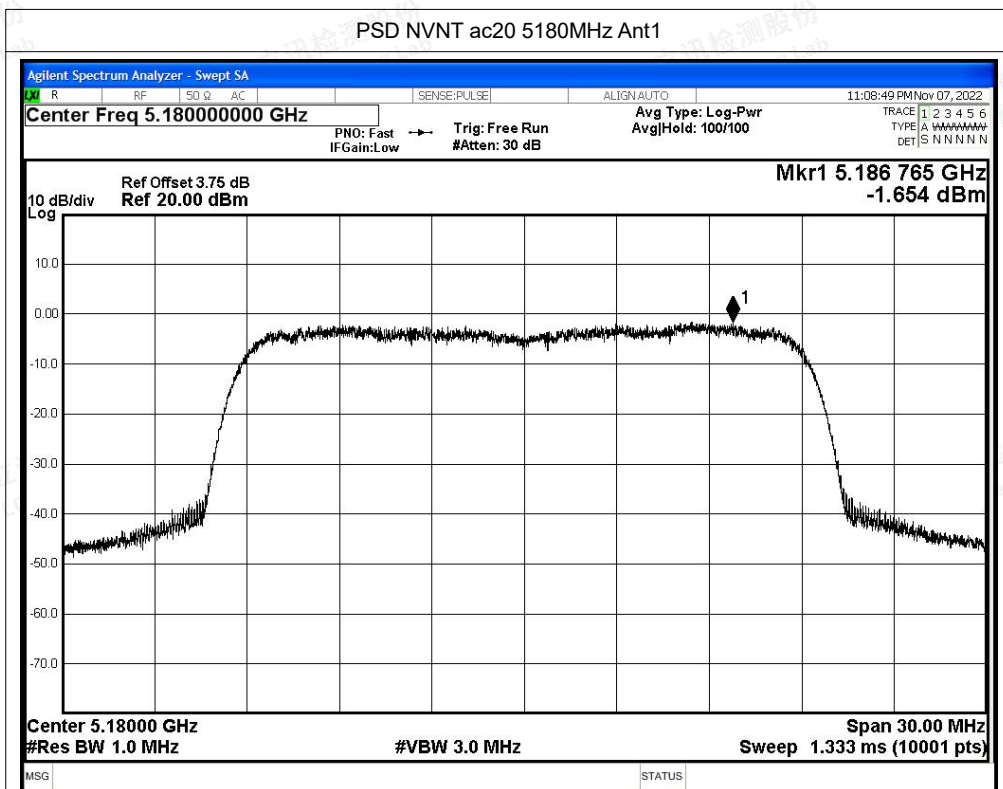


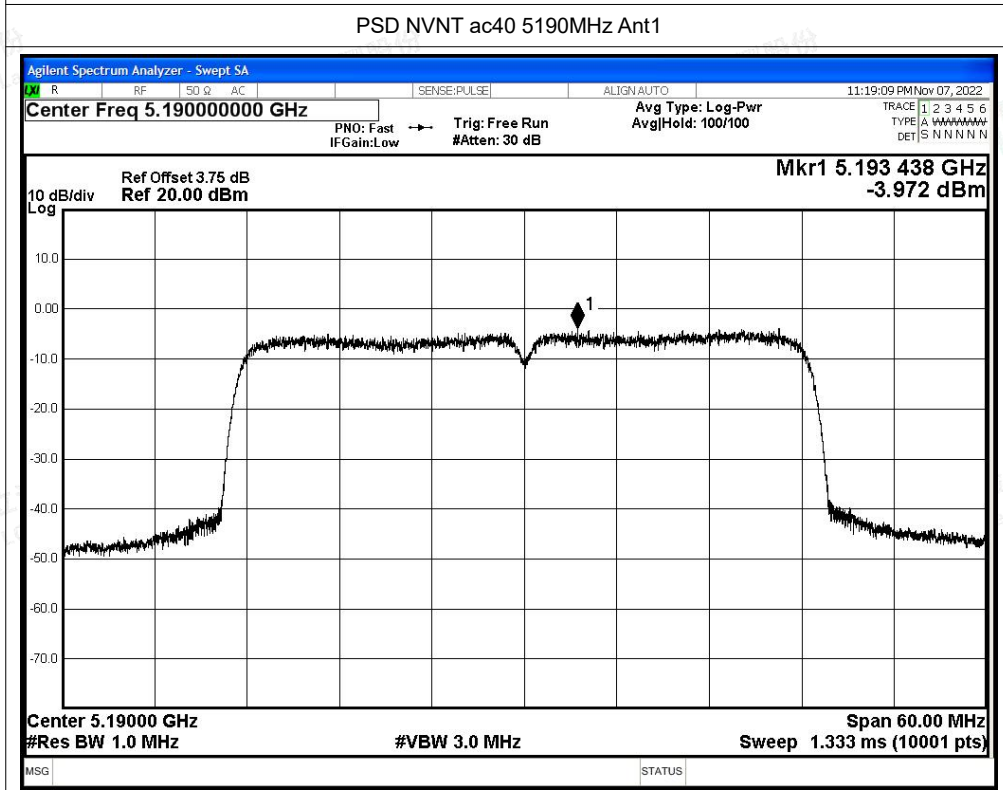
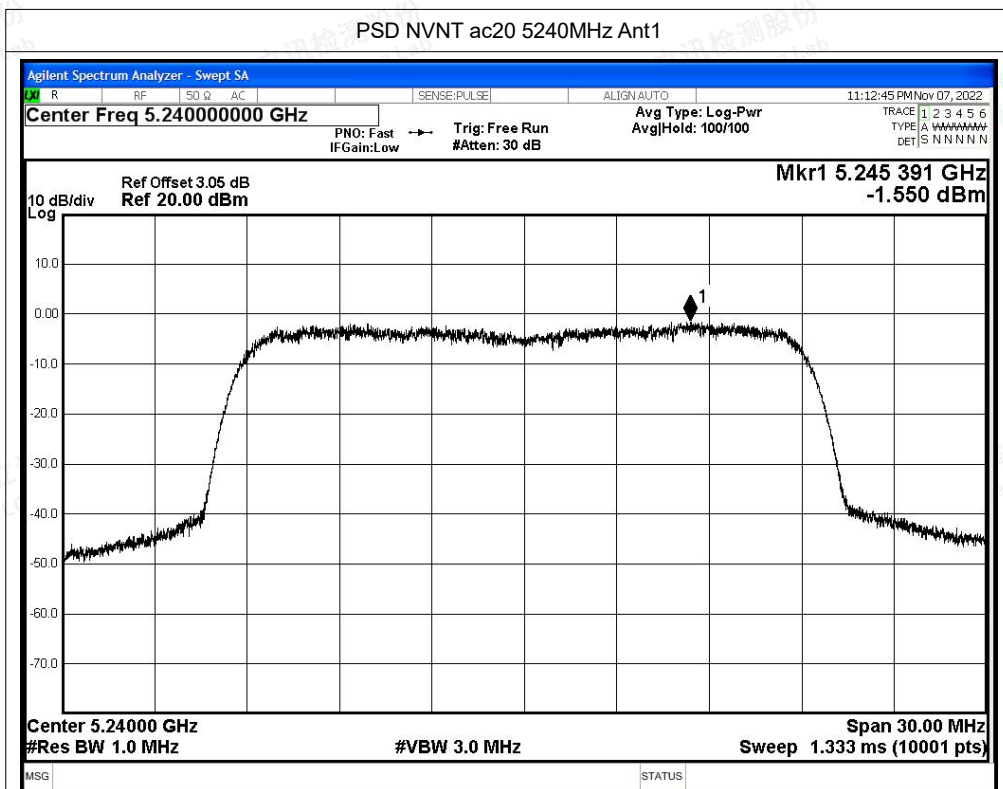
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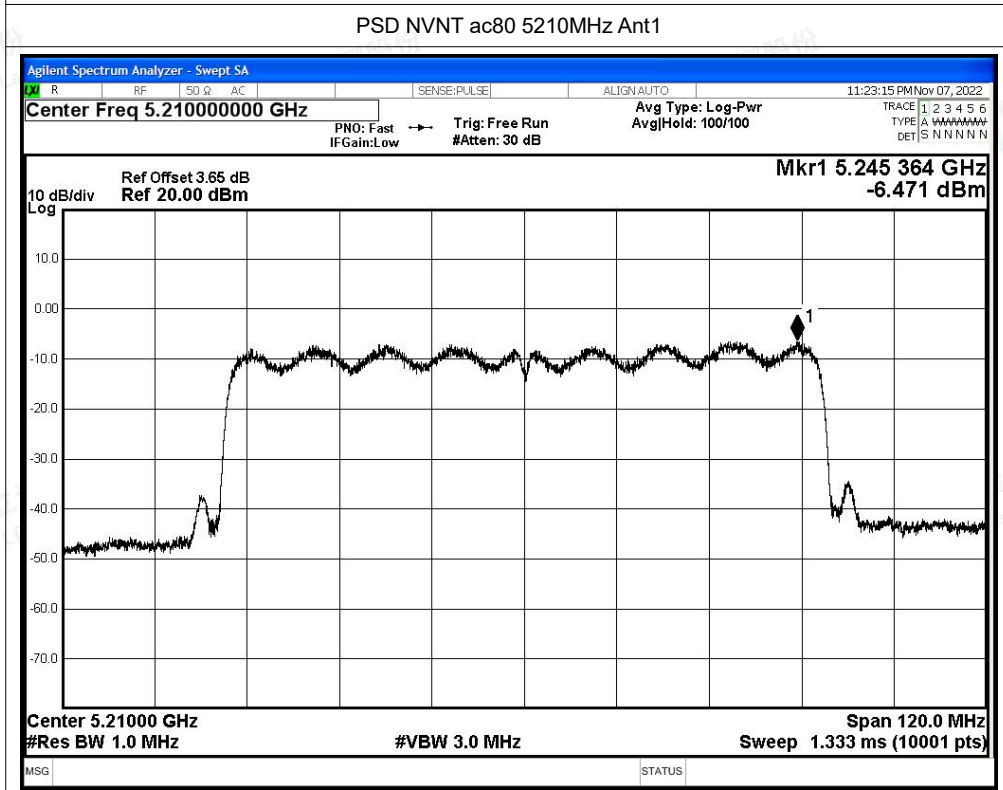
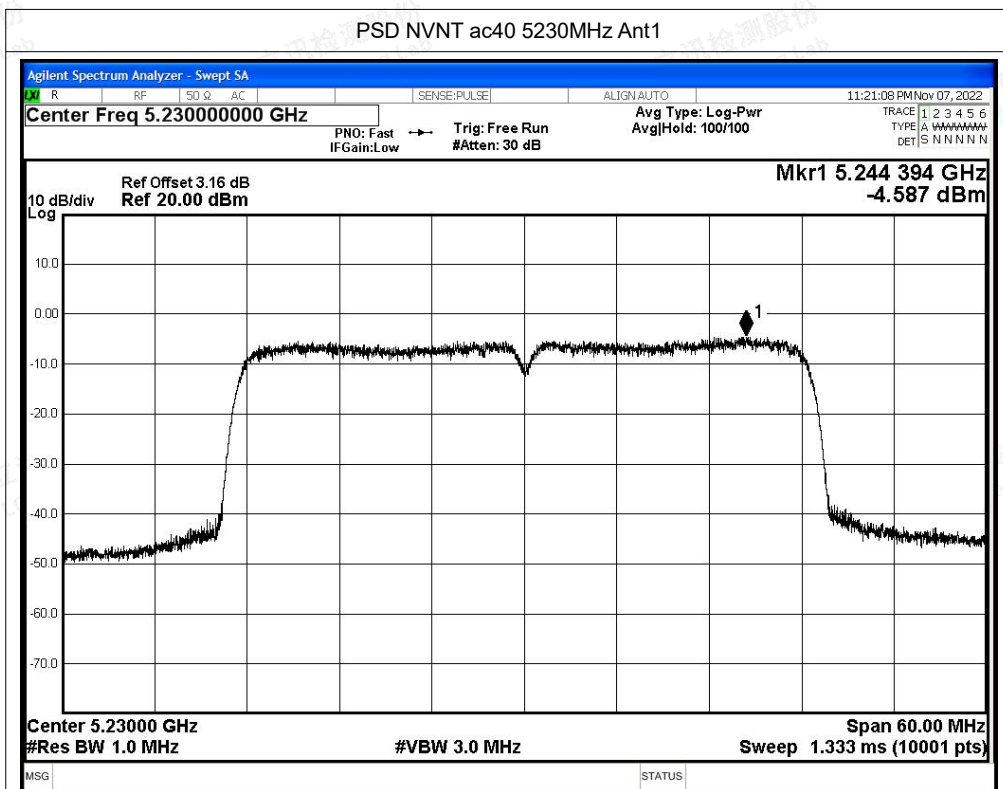


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D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5180	Ant1	4500	-49.36	2.23	48.10	Peak	68.2	Pass
NVNT	a	5180	Ant1	4500	-59.68	2.23	37.78	Average	54	Pass
NVNT	a	5180	Ant1	5149.6	-41.67	2.23	55.79	Peak	68.2	Pass
NVNT	a	5180	Ant1	5149.6	-55.49	2.23	41.97	Average	54	Pass
NVNT	a	5180	Ant1	5150	-44.71	2.23	52.75	Peak	68.2	Pass
NVNT	a	5180	Ant1	5150	-54.97	2.23	42.49	Average	54	Pass
NVNT	a	5240	Ant1	5350	-49.08	2.23	48.38	Peak	68.2	Pass
NVNT	a	5240	Ant1	5350	-58.89	2.23	38.57	Average	54	Pass
NVNT	a	5240	Ant1	5387.04	-46.73	2.23	50.73	Peak	68.2	Pass
NVNT	a	5240	Ant1	5374.56	-58.65	2.23	38.81	Average	54	Pass
NVNT	a	5240	Ant1	5460	-50.04	2.23	47.42	Peak	68.2	Pass
NVNT	a	5240	Ant1	5460	-59.25	2.23	38.21	Average	54	Pass
NVNT	n20	5180	Ant1	4500	-49.91	2.23	47.55	Peak	68.2	Pass
NVNT	n20	5180	Ant1	4500	-59.8	2.23	37.66	Average	54	Pass
NVNT	n20	5180	Ant1	5149.6	-40.74	2.23	56.72	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5149.6	-55.4	2.23	42.06	Average	54	Pass
NVNT	n20	5180	Ant1	5150	-41.58	2.23	55.88	Peak	68.2	Pass
NVNT	n20	5180	Ant1	5150	-54.87	2.23	42.59	Average	54	Pass
NVNT	n20	5240	Ant1	5350	-49.58	2.23	47.88	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5350	-58.78	2.23	38.68	Average	54	Pass
NVNT	n20	5240	Ant1	5372.64	-45.58	2.23	51.88	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5405.28	-58.54	2.23	38.92	Average	54	Pass
NVNT	n20	5240	Ant1	5460	-50.12	2.23	47.34	Peak	68.2	Pass
NVNT	n20	5240	Ant1	5460	-59.43	2.23	38.03	Average	54	Pass
NVNT	n40	5190	Ant1	4500	-50.46	2.23	47.00	Peak	68.2	Pass
NVNT	n40	5190	Ant1	4500	-59.72	2.23	37.74	Average	54	Pass
NVNT	n40	5190	Ant1	5149.7	-37.96	2.23	59.50	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5149.7	-49.41	2.23	48.05	Average	54	Pass
NVNT	n40	5190	Ant1	5150	-37.96	2.23	59.50	Peak	68.2	Pass
NVNT	n40	5190	Ant1	5150	-49.41	2.23	48.05	Average	54	Pass
NVNT	n40	5230	Ant1	5350	-47.8	2.23	49.66	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5350	-58.57	2.23	38.89	Average	54	Pass
NVNT	n40	5230	Ant1	5399.25	-46.85	2.23	50.61	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5372.52	-58.27	2.23	39.19	Average	54	Pass
NVNT	n40	5230	Ant1	5460	-47.83	2.23	49.63	Peak	68.2	Pass
NVNT	n40	5230	Ant1	5460	-59.19	2.23	38.27	Average	54	Pass



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NVNT	ac20	5180	Ant1	4500	-48.87	2.23	48.59	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	4500	-59.75	2.23	37.71	Average	54	Pass
NVNT	ac20	5180	Ant1	5149.6	-41.43	2.23	56.03	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5149.6	-54.6	2.23	42.86	Average	54	Pass
NVNT	ac20	5180	Ant1	5150	-42.51	2.23	54.95	Peak	68.2	Pass
NVNT	ac20	5180	Ant1	5150	-54.64	2.23	42.82	Average	54	Pass
NVNT	ac20	5240	Ant1	5350	-48.59	2.23	48.87	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5350	-58.78	2.23	38.68	Average	54	Pass
NVNT	ac20	5240	Ant1	5384.16	-46.25	2.23	51.21	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5364	-58.27	2.23	39.19	Average	54	Pass
NVNT	ac20	5240	Ant1	5460	-48.72	2.23	48.74	Peak	68.2	Pass
NVNT	ac20	5240	Ant1	5460	-59.26	2.23	38.20	Average	54	Pass
NVNT	ac40	5190	Ant1	4500	-49.68	2.23	47.78	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	4500	-59.34	2.23	38.12	Average	54	Pass
NVNT	ac40	5190	Ant1	5147.51	-37.16	2.23	60.30	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5149.7	-49.25	2.23	48.21	Average	54	Pass
NVNT	ac40	5190	Ant1	5150	-39.96	2.23	57.50	Peak	68.2	Pass
NVNT	ac40	5190	Ant1	5150	-49.25	2.23	48.21	Average	54	Pass
NVNT	ac40	5230	Ant1	5350	-49.13	2.23	48.33	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5350	-58.46	2.23	39.00	Average	54	Pass
NVNT	ac40	5230	Ant1	5439.21	-46.68	2.23	50.78	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5372.25	-57.82	2.23	39.64	Average	54	Pass
NVNT	ac40	5230	Ant1	5460	-49.45	2.23	48.01	Peak	68.2	Pass
NVNT	ac40	5230	Ant1	5460	-58.34	2.23	39.12	Average	54	Pass
NVNT	ac80	5210	Ant1	5350	-47.16	2.23	50.30	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5350	-55.94	2.23	41.52	Average	54	Pass
NVNT	ac80	5210	Ant1	5434.92	-45.35	2.23	52.11	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5364.63	-55.89	2.23	41.57	Average	54	Pass
NVNT	ac80	5210	Ant1	5460	-48.51	2.23	48.95	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5460	-57.41	2.23	40.05	Average	54	Pass
NVNT	ac80	5210	Ant1	4500	-50.55	2.23	46.91	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	4500	-59.05	2.23	38.41	Average	54	Pass
NVNT	ac80	5210	Ant1	5149.38	-34.4	2.23	63.06	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5141.48	-45.8	2.23	51.66	Average	54	Pass
NVNT	ac80	5210	Ant1	5150	-36.19	2.23	61.27	Peak	68.2	Pass
NVNT	ac80	5210	Ant1	5150	-45.93	2.23	51.53	Average	54	Pass



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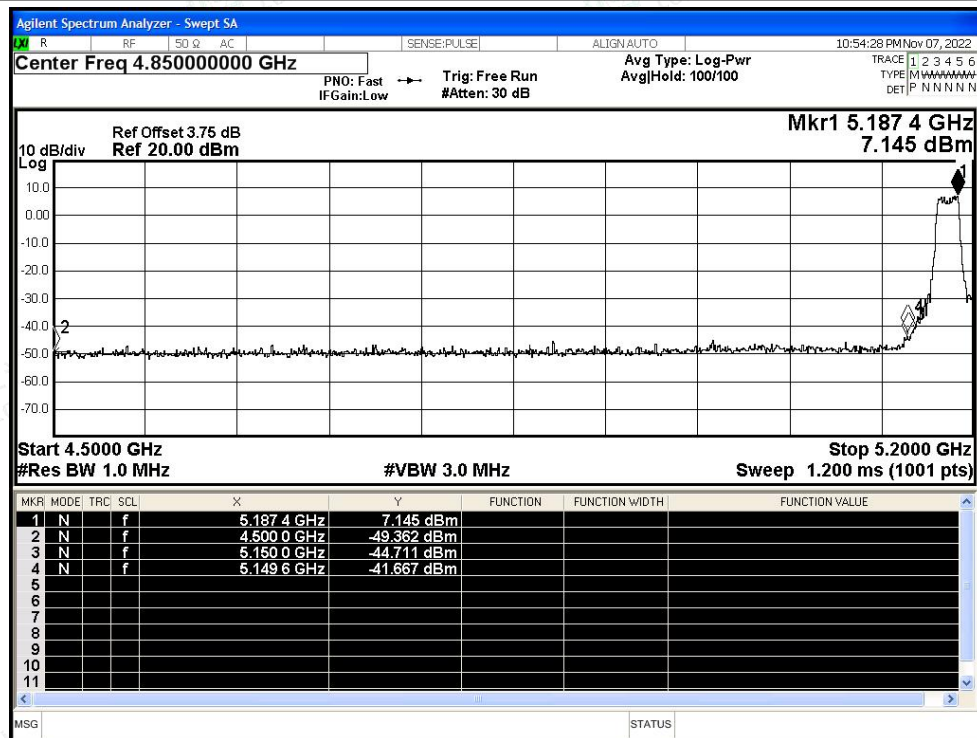
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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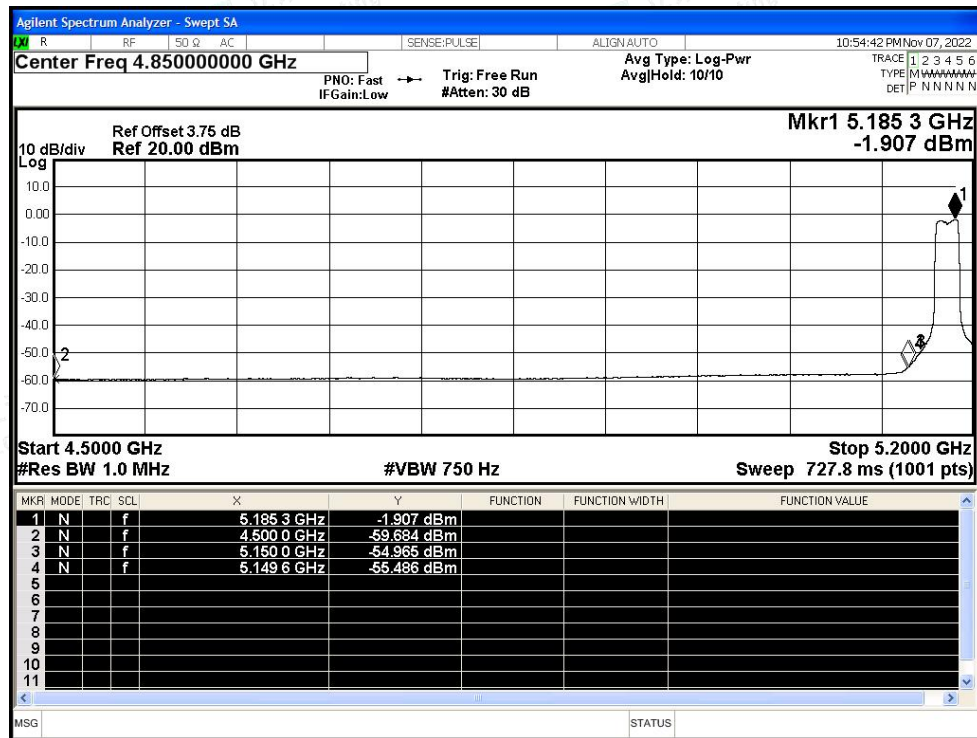


Test Graphs

Restrict Band NVNT a 5180MHz Ant1 Peak



Restrict Band NVNT a 5180MHz Ant1 Average



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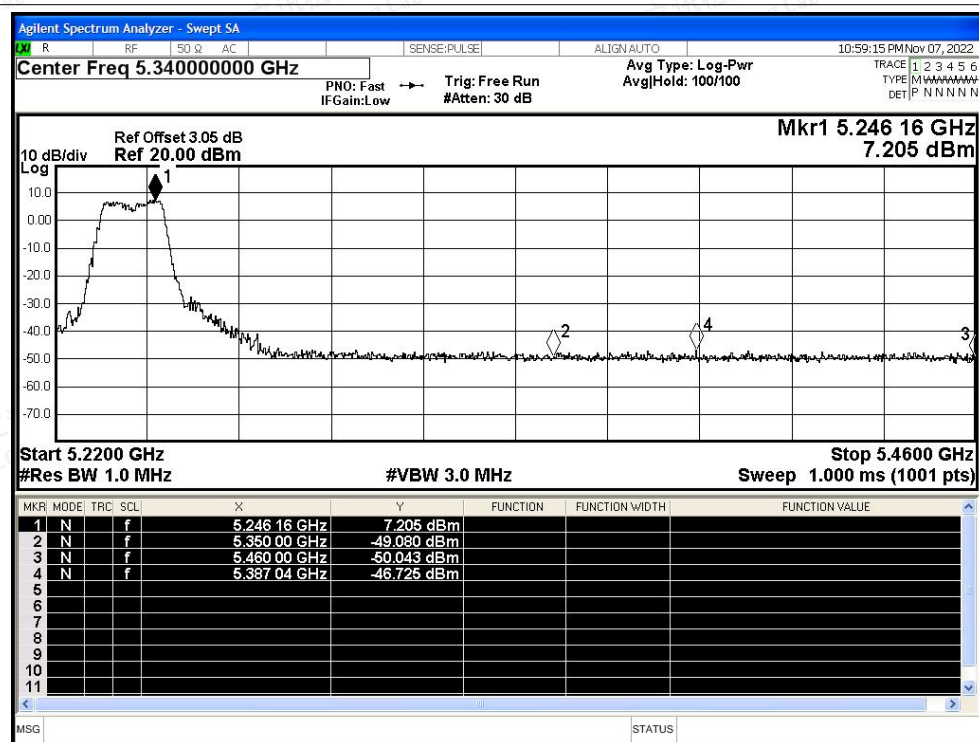
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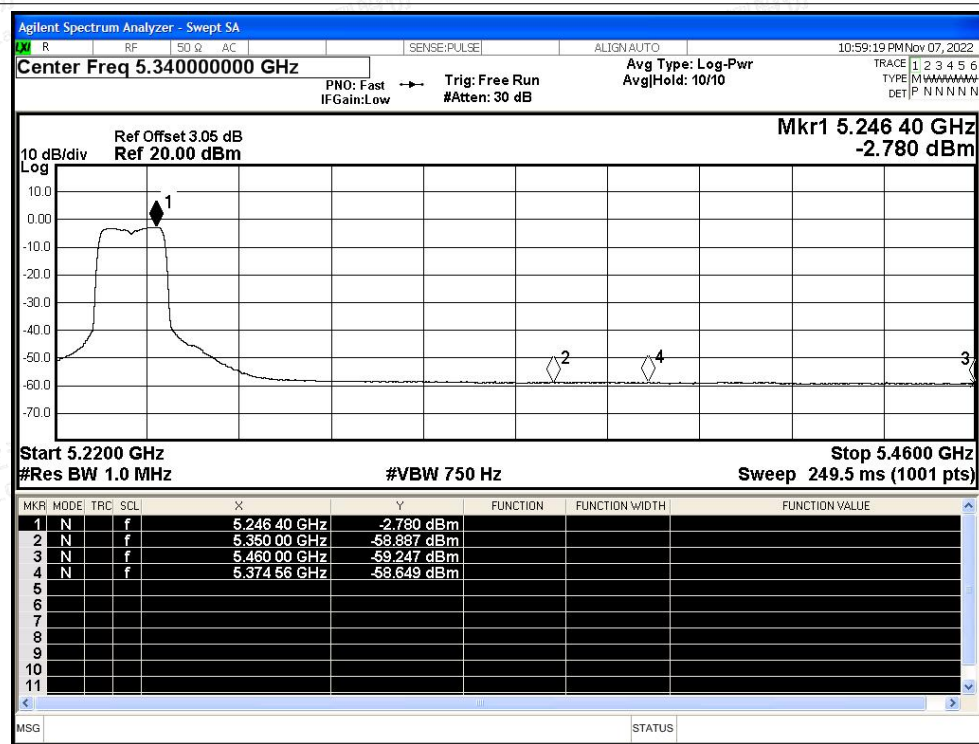
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Restrict Band NVNT a 5240MHz Ant1 Peak



Restrict Band NVNT a 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

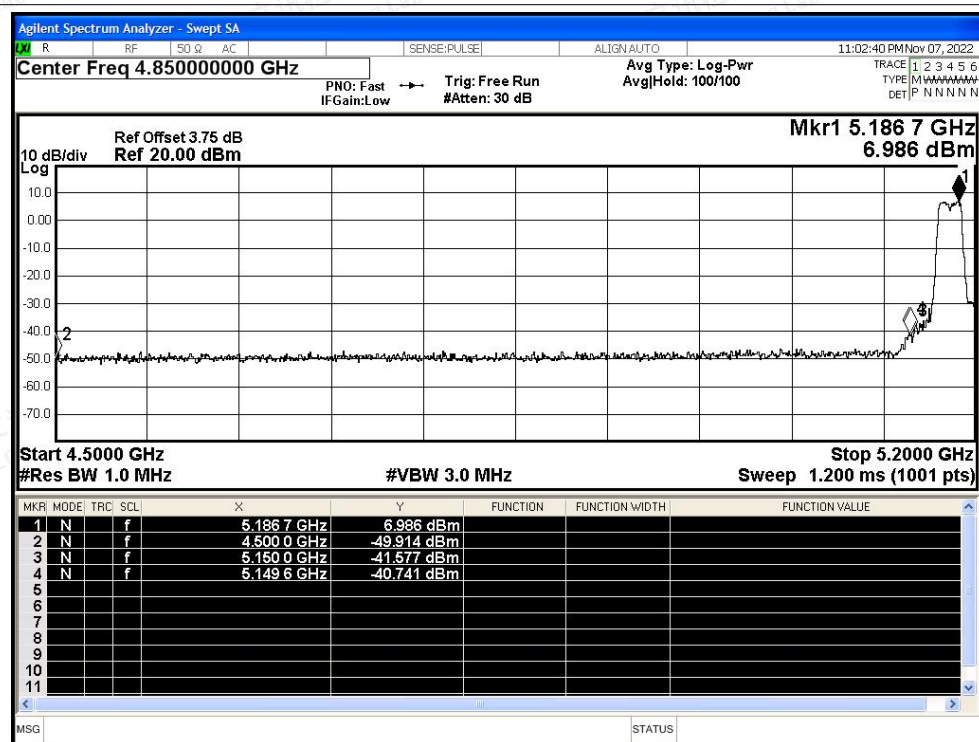
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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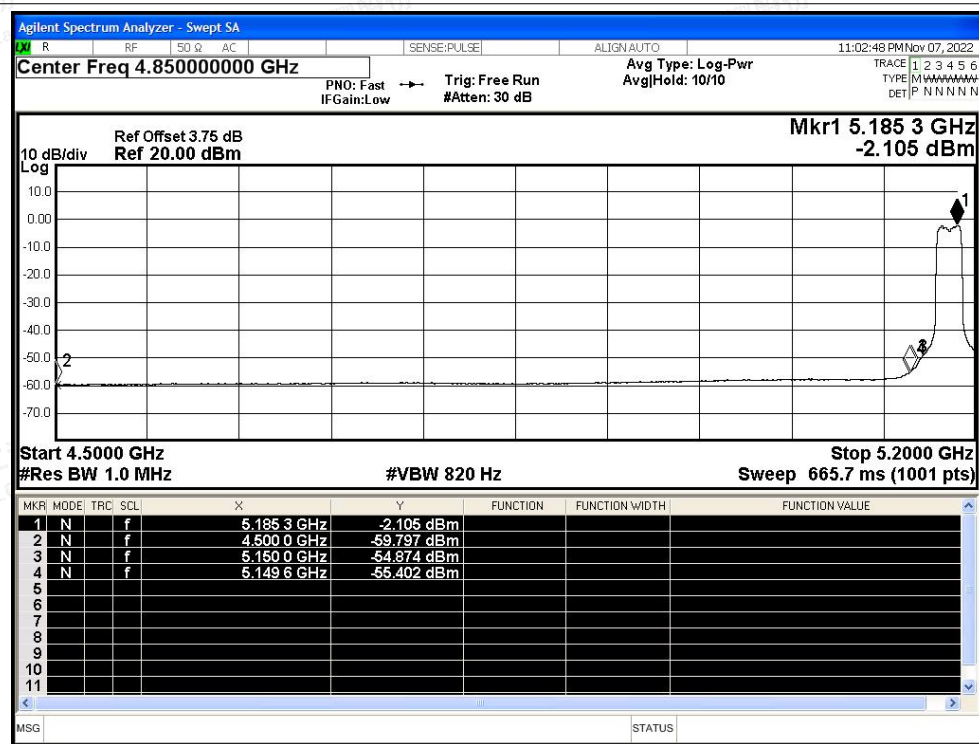
Scan code to check authenticity



Restrict Band NVNT n20 5180MHz Ant1 Peak



Restrict Band NVNT n20 5180MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

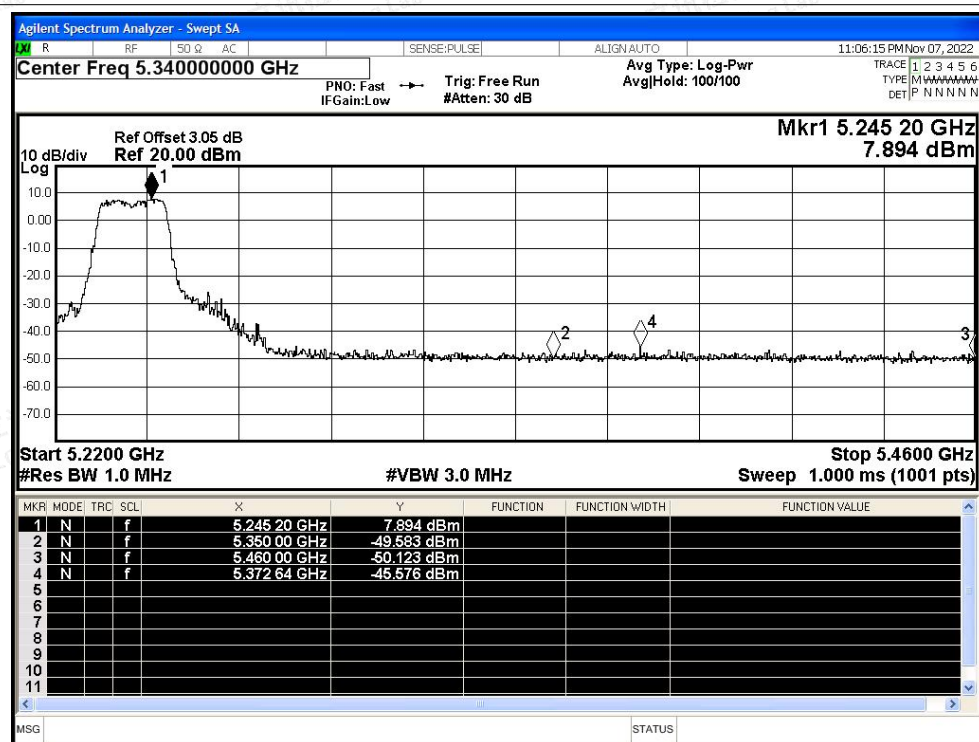
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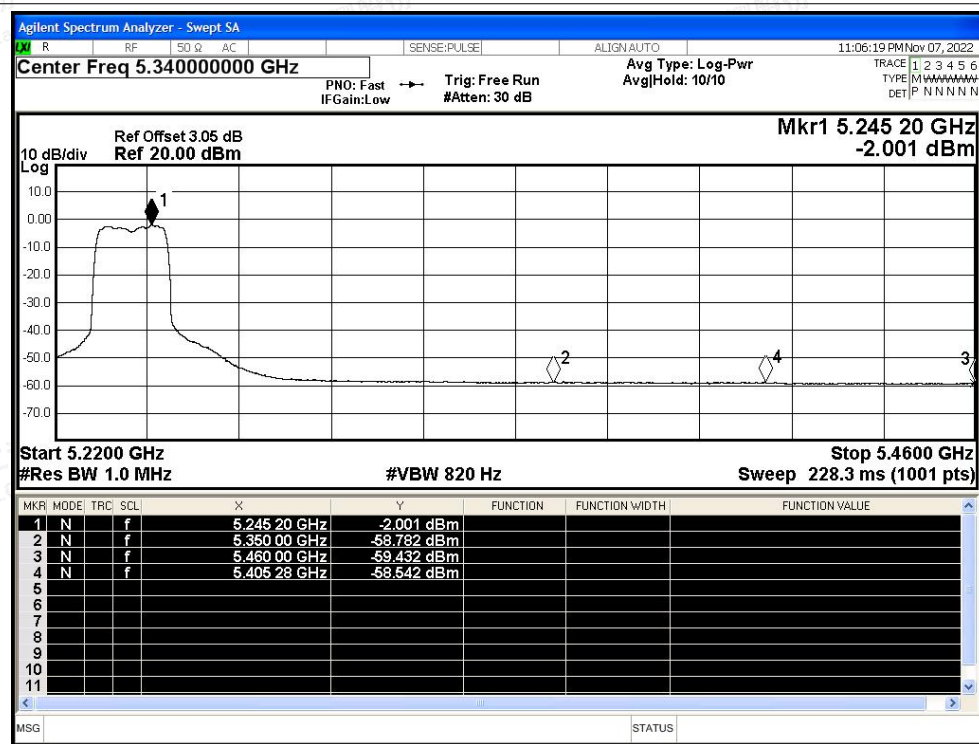
Scan code to check authenticity



Restrict Band NVNT n20 5240MHz Ant1 Peak



Restrict Band NVNT n20 5240MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

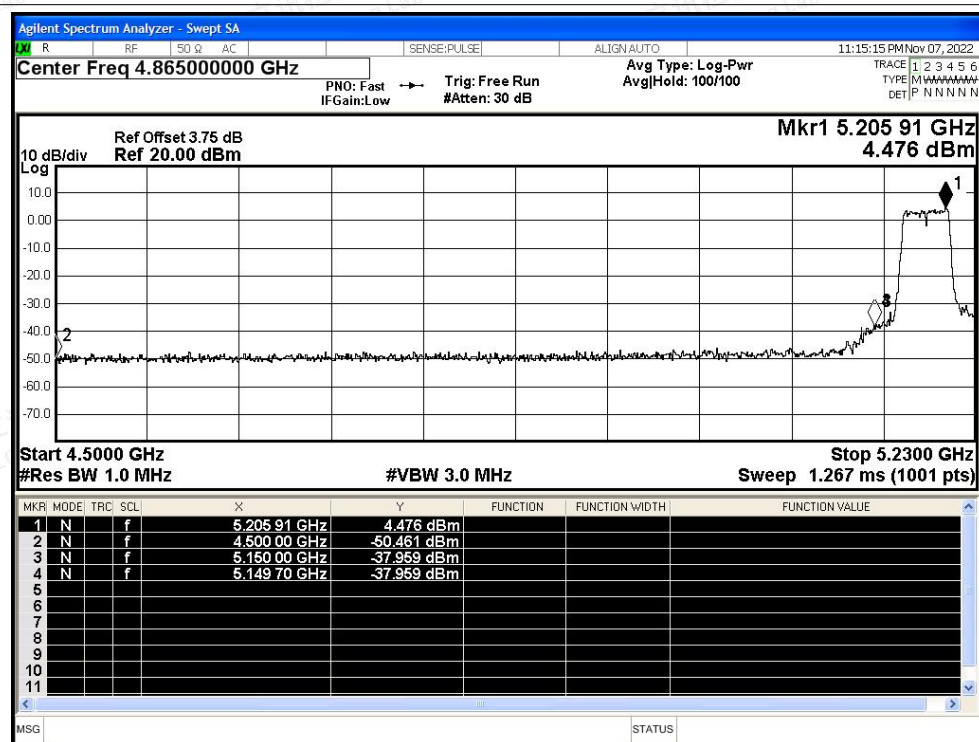
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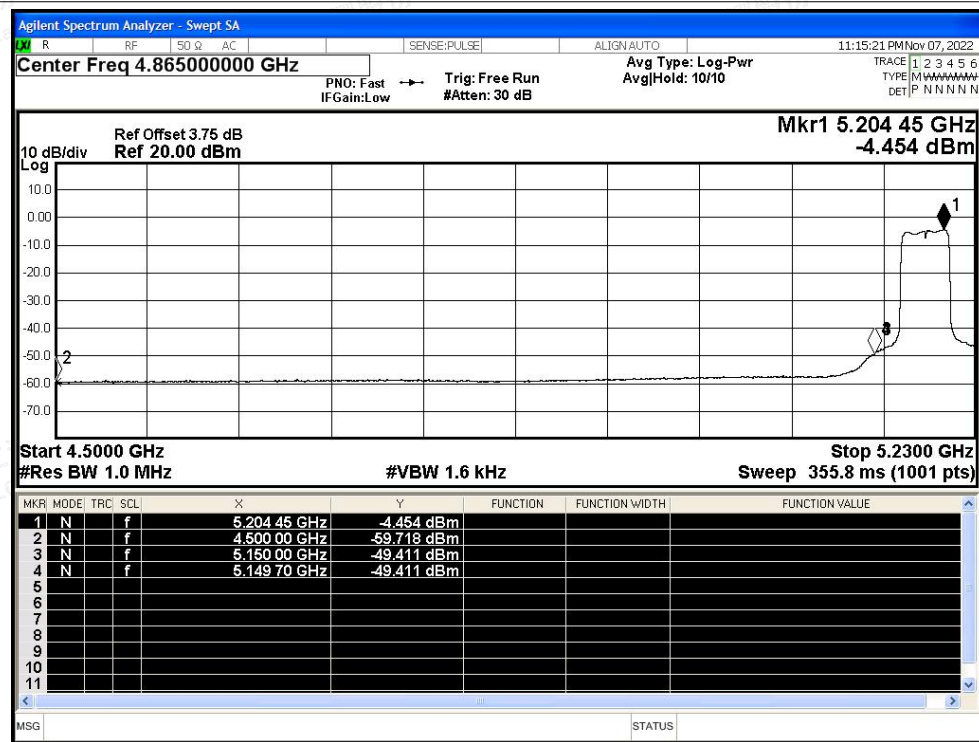
Scan code to check authenticity



Restrict Band NVNT n40 5190MHz Ant1 Peak



Restrict Band NVNT n40 5190MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

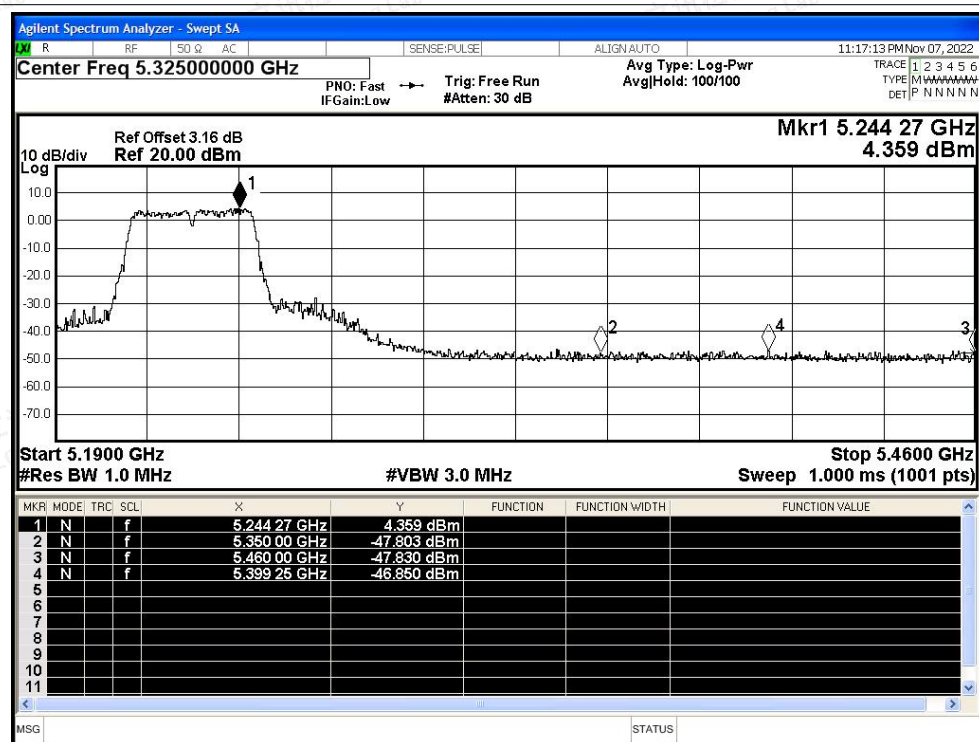
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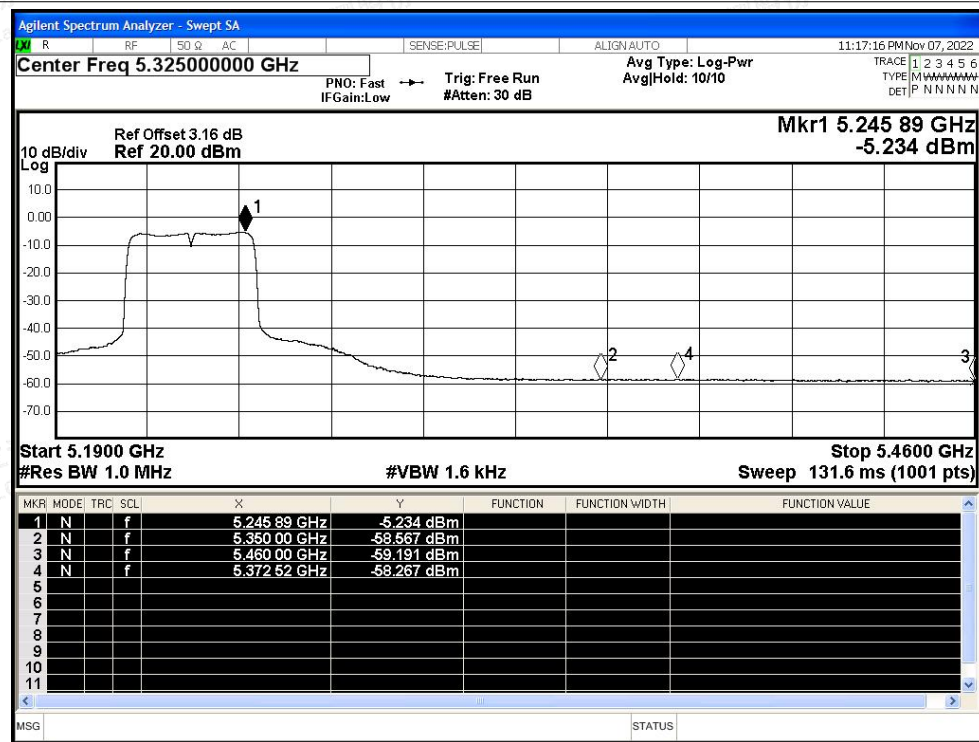
Scan code to check authenticity



Restrict Band NVNT n40 5230MHz Ant1 Peak



Restrict Band NVNT n40 5230MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

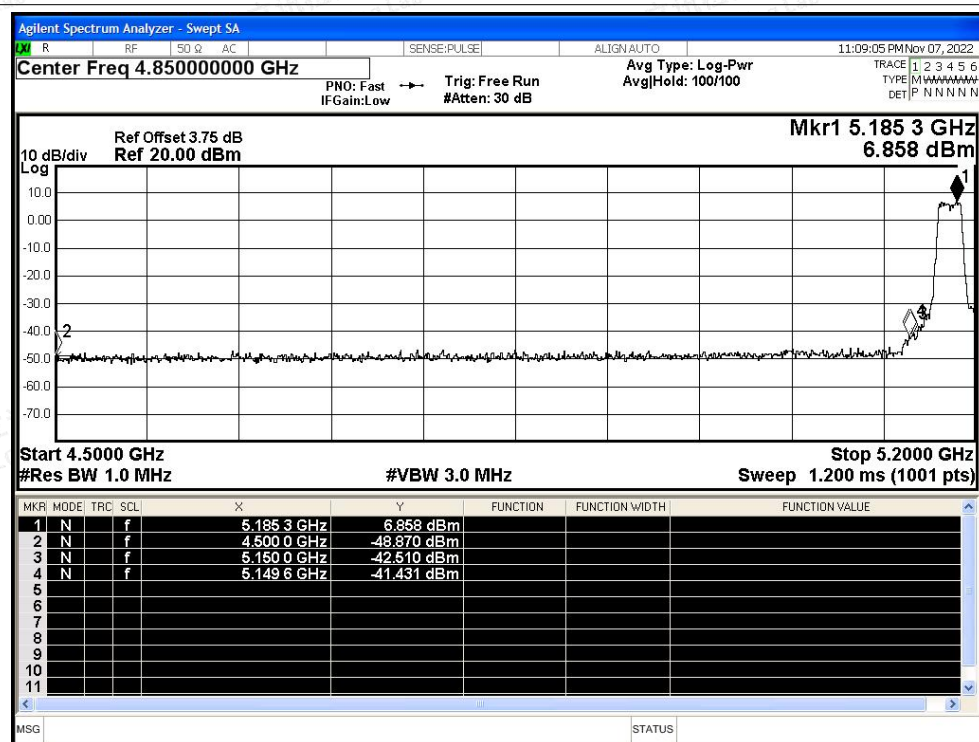
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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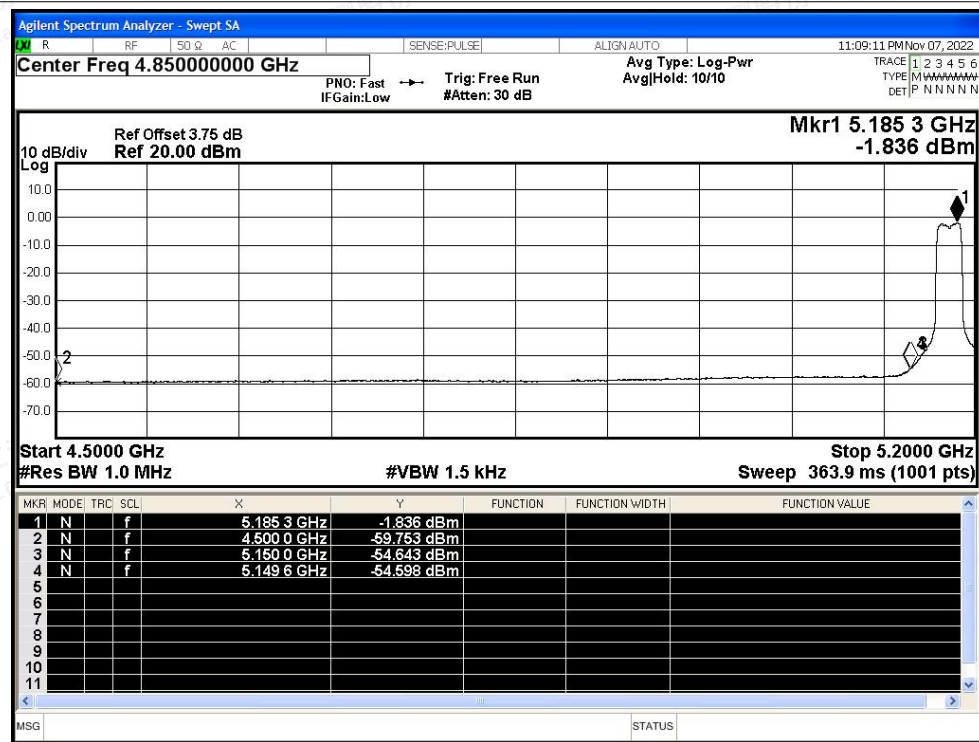
Scan code to check authenticity



Restrict Band NVNT ac20 5180MHz Ant1 Peak



Restrict Band NVNT ac20 5180MHz Ant1 Average



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