



Appendix G

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: IPTV Set-Top Box

Test Model: SML-5041W

Environmental Conditions

Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mening Su
Supervised by:	Ling Zhu



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G.1 -6dB Bandwidth

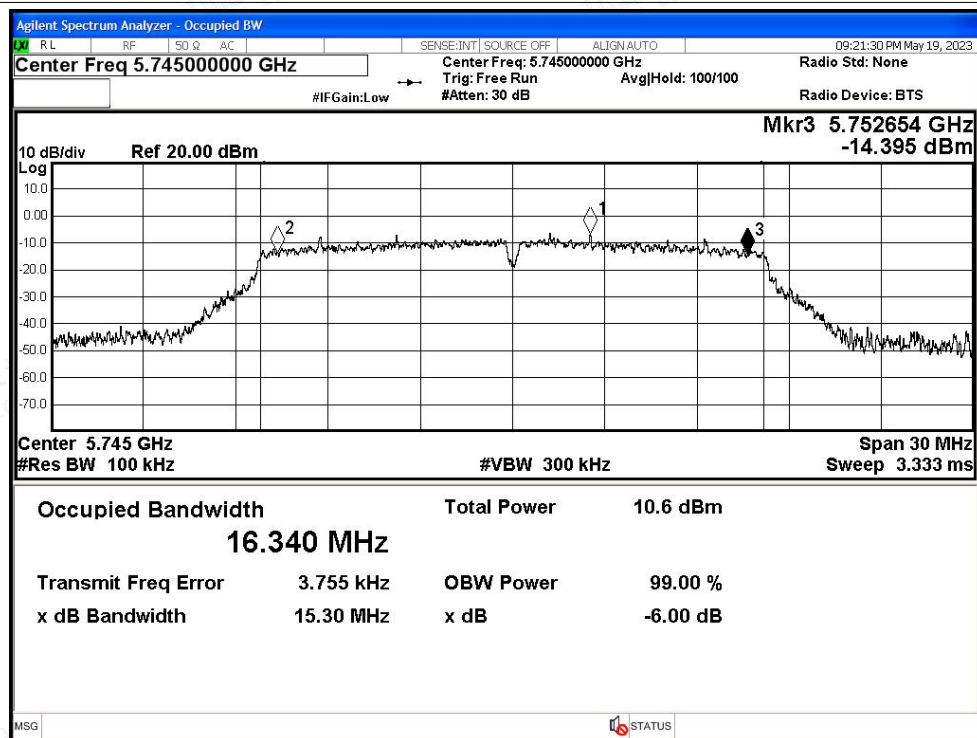
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	15.301	0.5	Pass
NVNT	a	5785	Ant0	15.255	0.5	Pass
NVNT	a	5825	Ant0	14.046	0.5	Pass
NVNT	n20	5745	Ant0	15.334	0.5	Pass
NVNT	n20	5785	Ant0	14.996	0.5	Pass
NVNT	n20	5825	Ant0	13.746	0.5	Pass
NVNT	n40	5755	Ant0	35.108	0.5	Pass
NVNT	n40	5795	Ant0	33.869	0.5	Pass
NVNT	ac20	5745	Ant0	15.491	0.5	Pass
NVNT	ac20	5785	Ant0	14.989	0.5	Pass
NVNT	ac20	5825	Ant0	13.838	0.5	Pass
NVNT	ac40	5755	Ant0	35.108	0.5	Pass
NVNT	ac40	5795	Ant0	32.613	0.5	Pass
NVNT	ac80	5775	Ant0	75.086	0.5	Pass



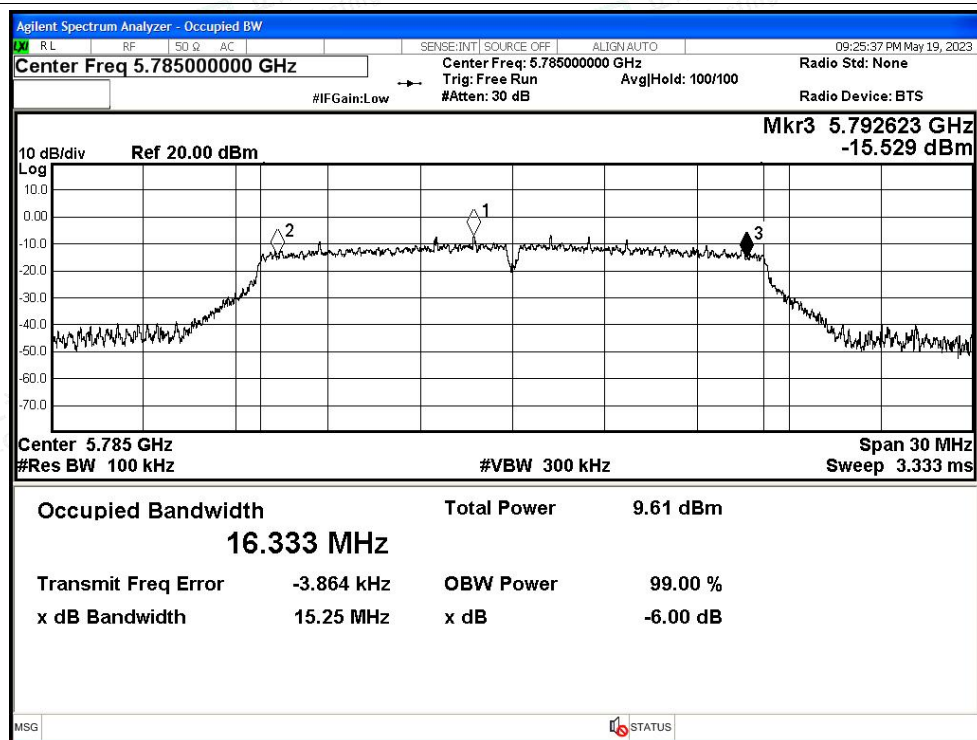


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant0



-6dB Bandwidth NVNT a 5785MHz Ant0

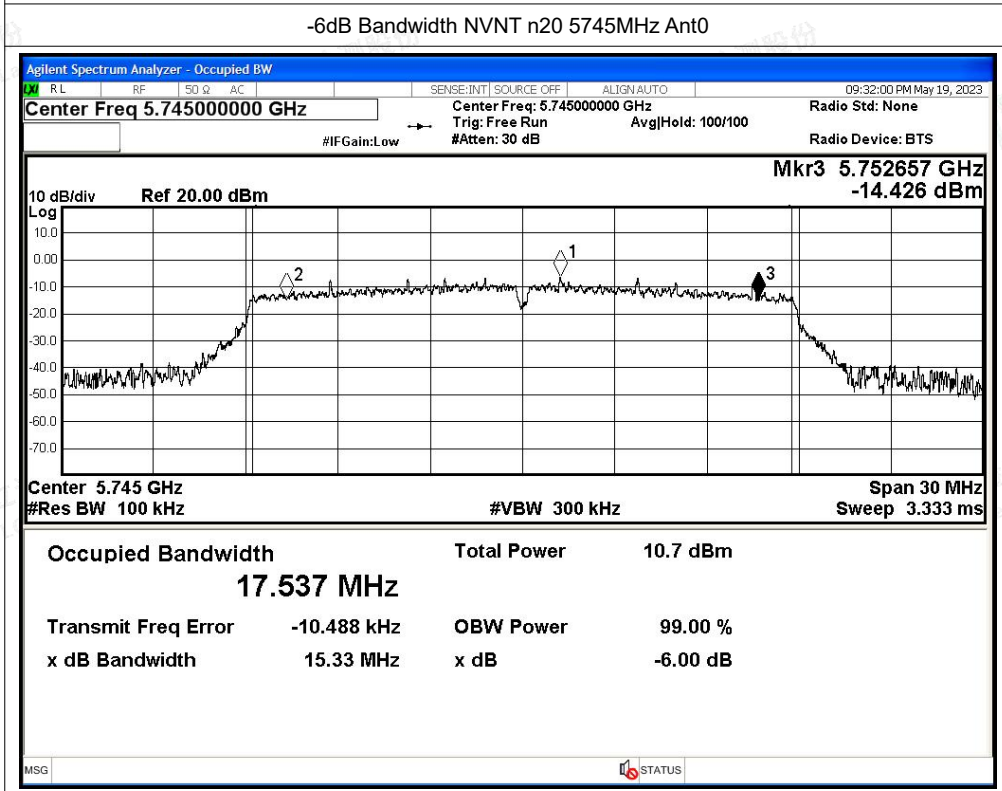
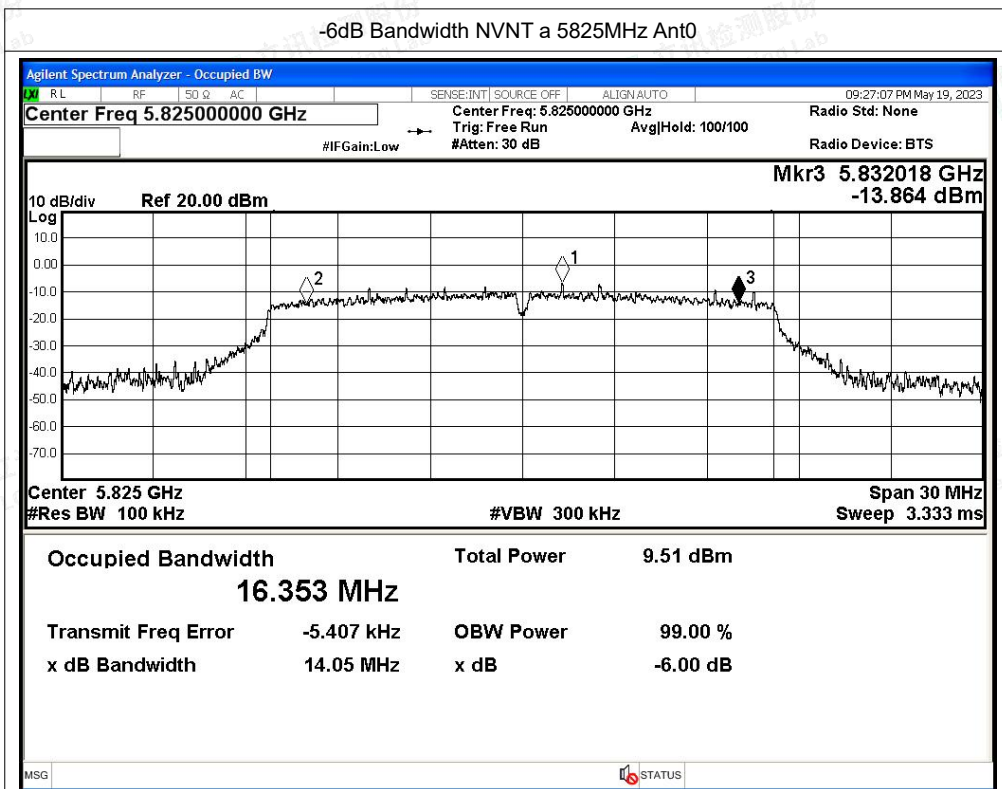


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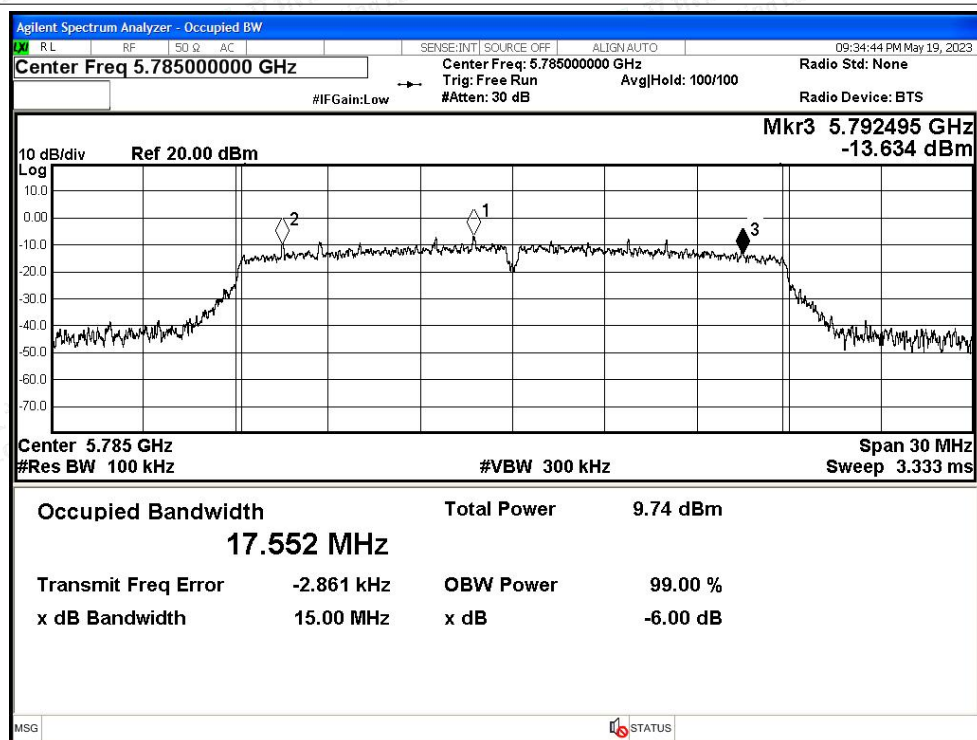
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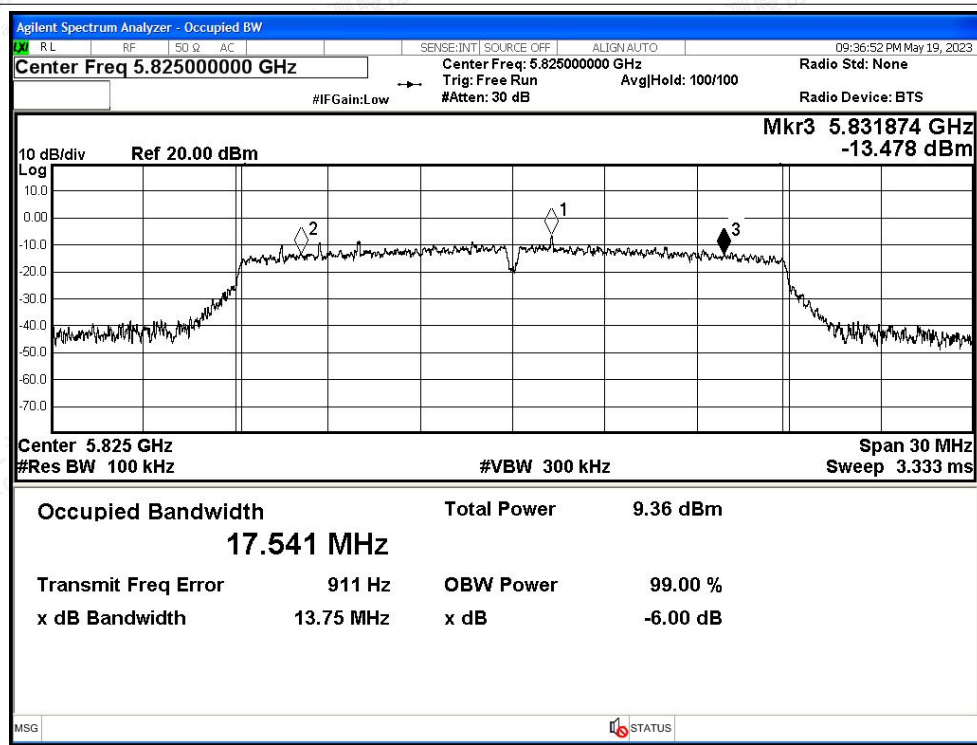




-6dB Bandwidth NVNT n20 5785MHz Ant0



-6dB Bandwidth NVNT n20 5825MHz Ant0



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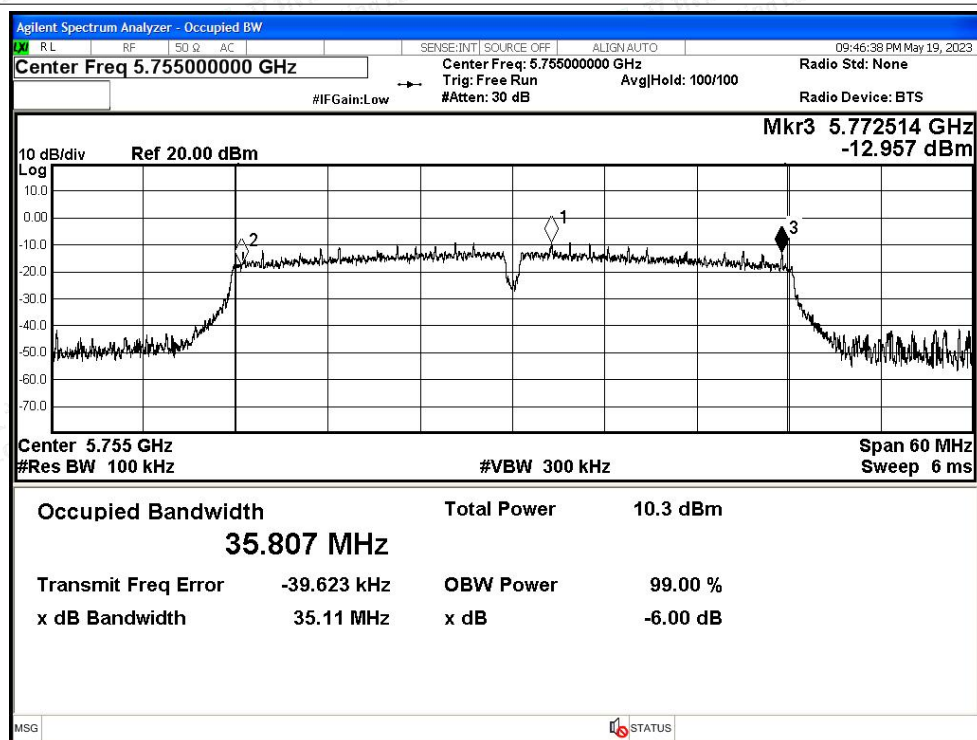
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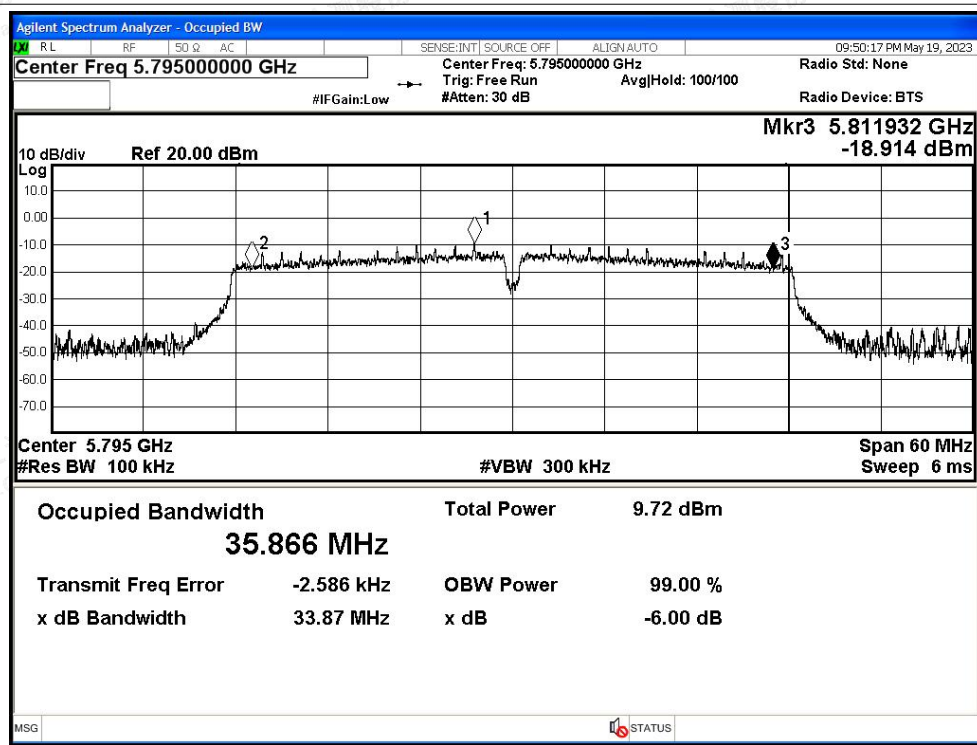
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-6dB Bandwidth NVNT n40 5755MHz Ant0



-6dB Bandwidth NVNT n40 5795MHz Ant0

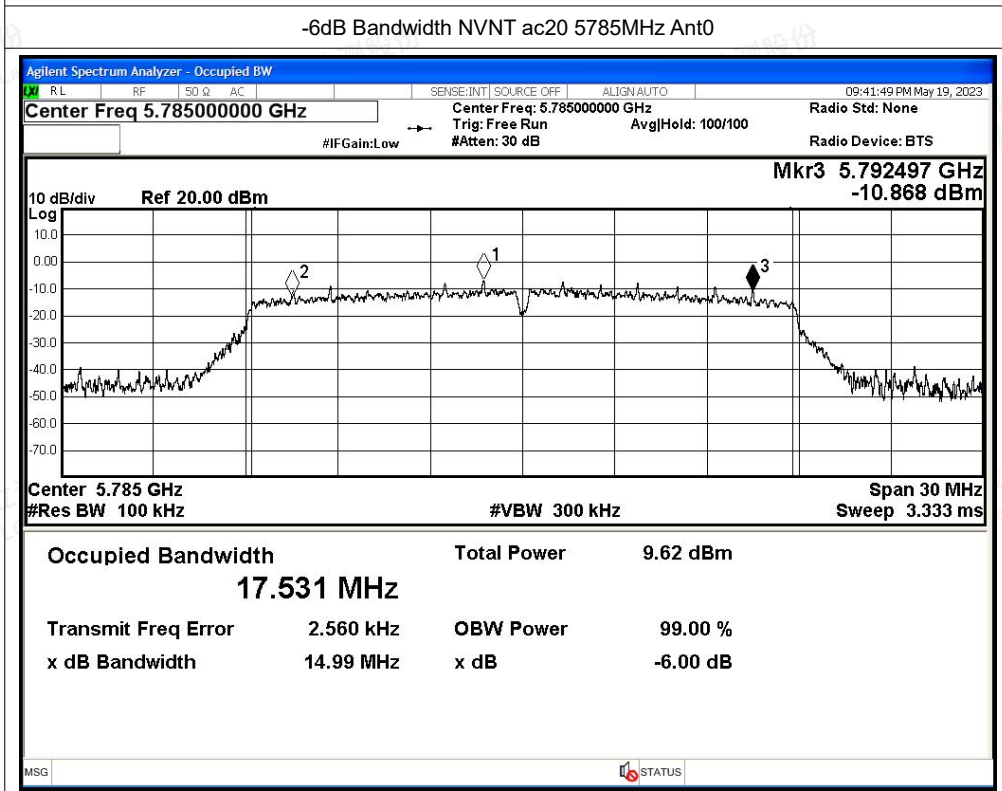
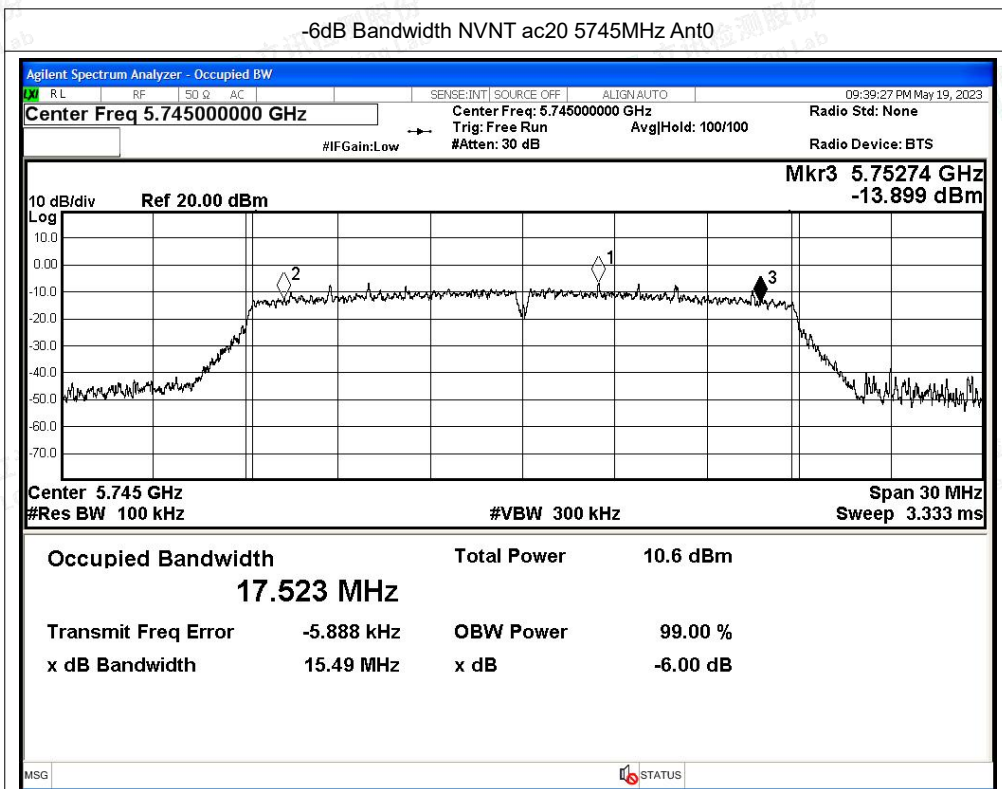


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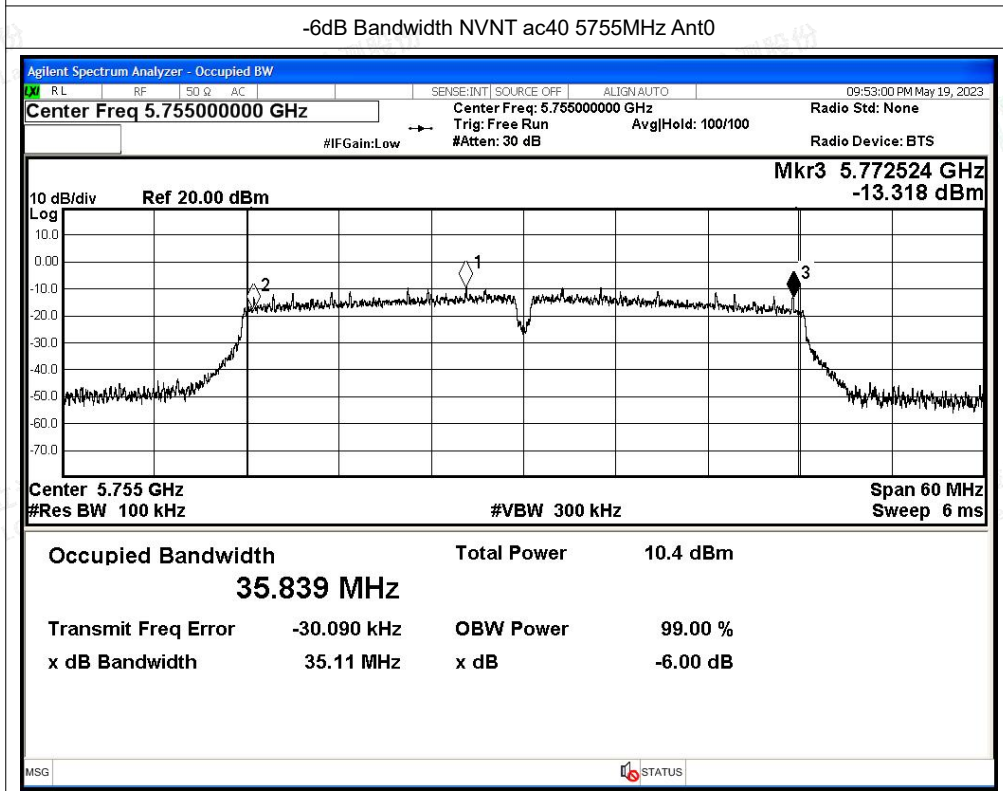
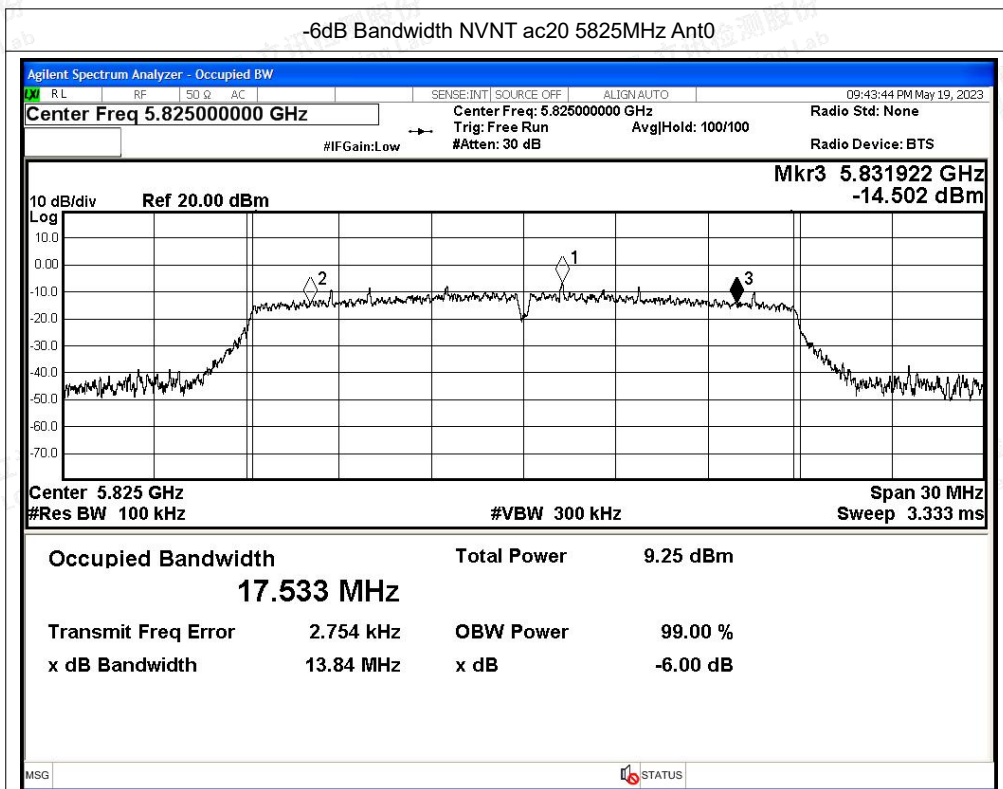


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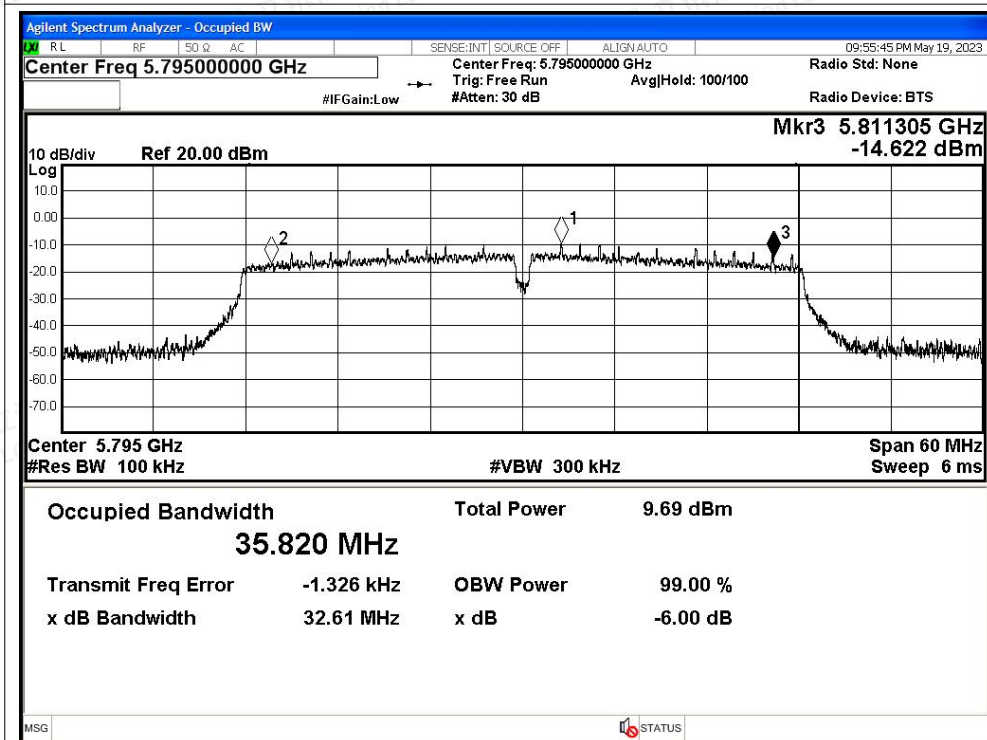
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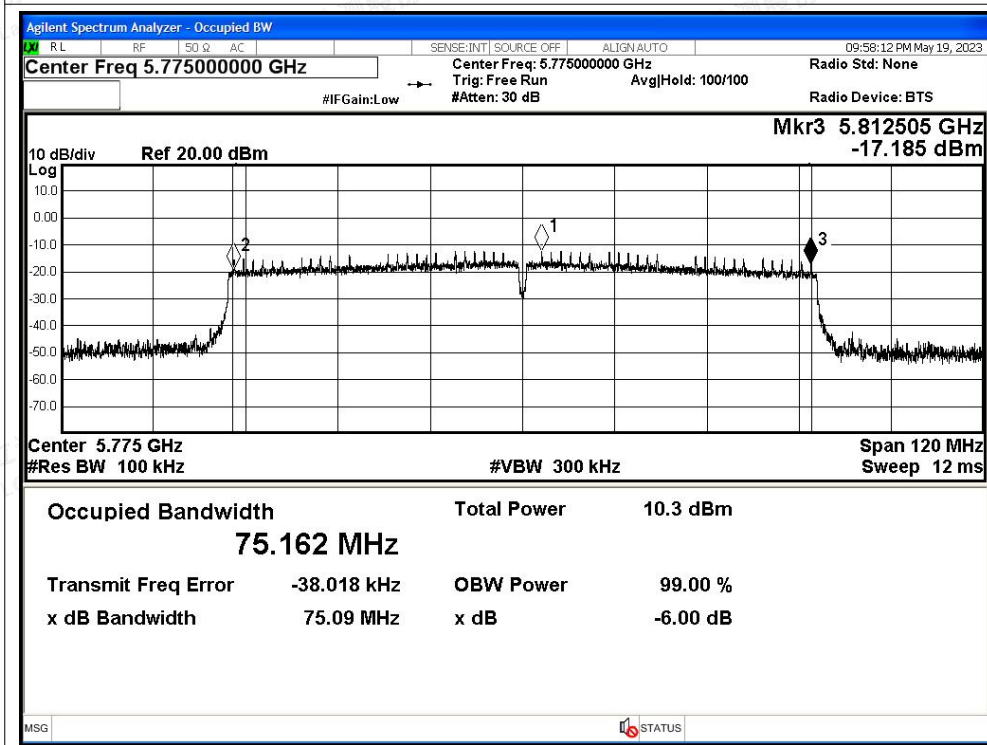




-6dB Bandwidth NVNT ac40 5795MHz Ant0



-6dB Bandwidth NVNT ac80 5775MHz Ant0



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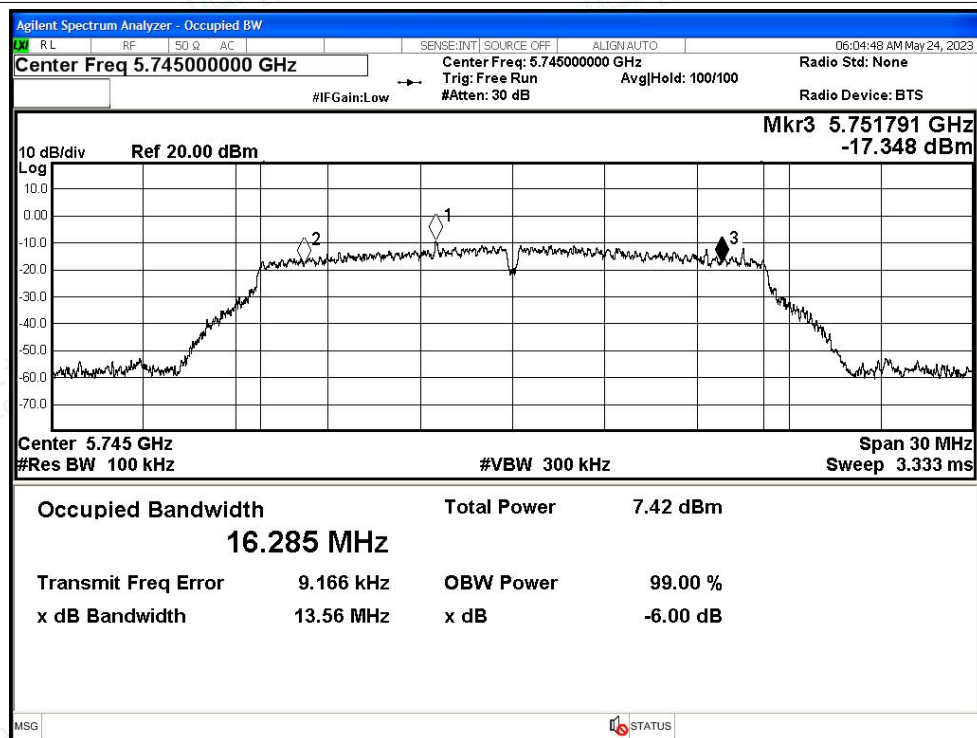
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	13.565	0.5	Pass
NVNT	a	5785	Ant1	13.794	0.5	Pass
NVNT	a	5825	Ant1	15.058	0.5	Pass
NVNT	n20	5745	Ant1	14.164	0.5	Pass
NVNT	n20	5785	Ant1	14.759	0.5	Pass
NVNT	n20	5825	Ant1	14.984	0.5	Pass
NVNT	n40	5755	Ant1	35.089	0.5	Pass
NVNT	n40	5795	Ant1	35.032	0.5	Pass
NVNT	ac20	5745	Ant1	13.457	0.5	Pass
NVNT	ac20	5785	Ant1	13.146	0.5	Pass
NVNT	ac20	5825	Ant1	14.685	0.5	Pass
NVNT	ac40	5755	Ant1	32.521	0.5	Pass
NVNT	ac40	5795	Ant1	35.053	0.5	Pass
NVNT	ac80	5775	Ant1	75.315	0.5	Pass



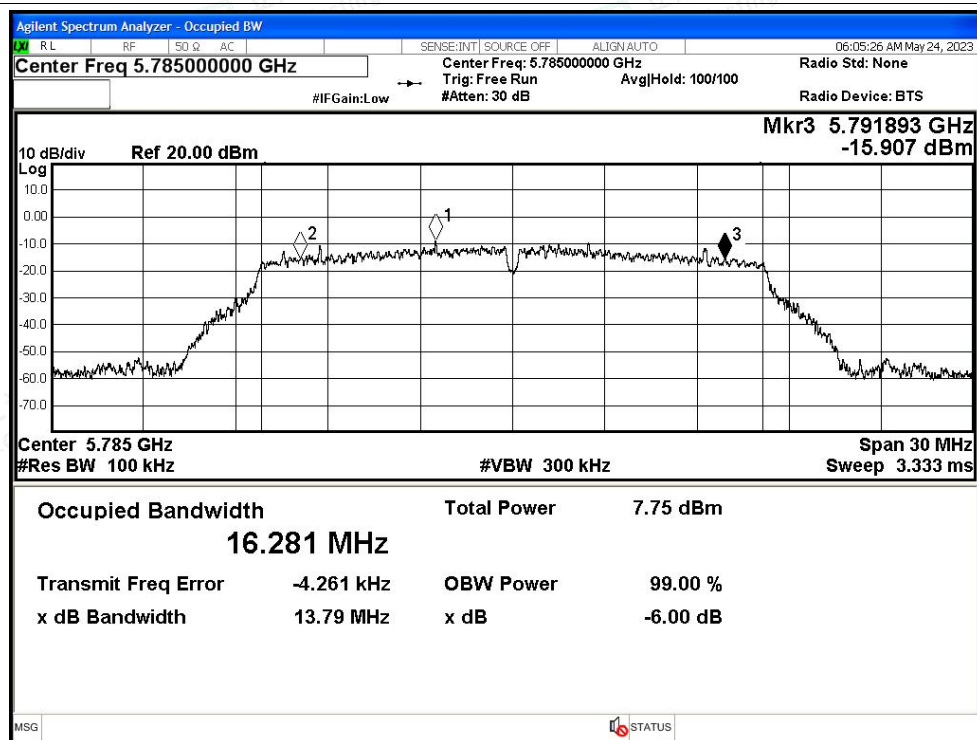


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



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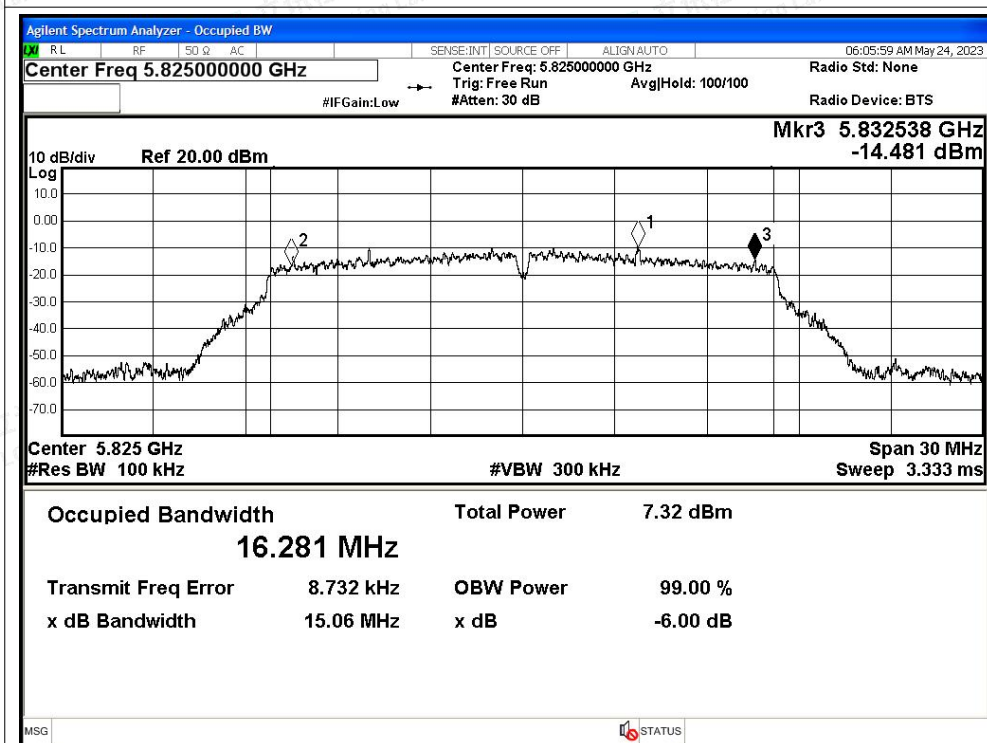
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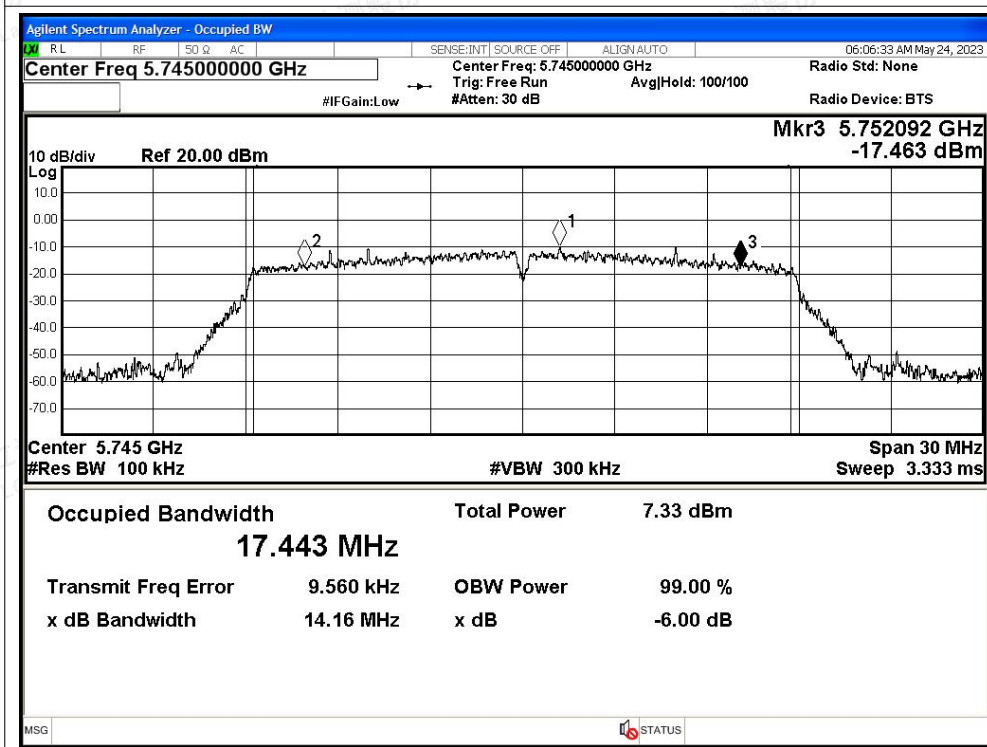
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-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



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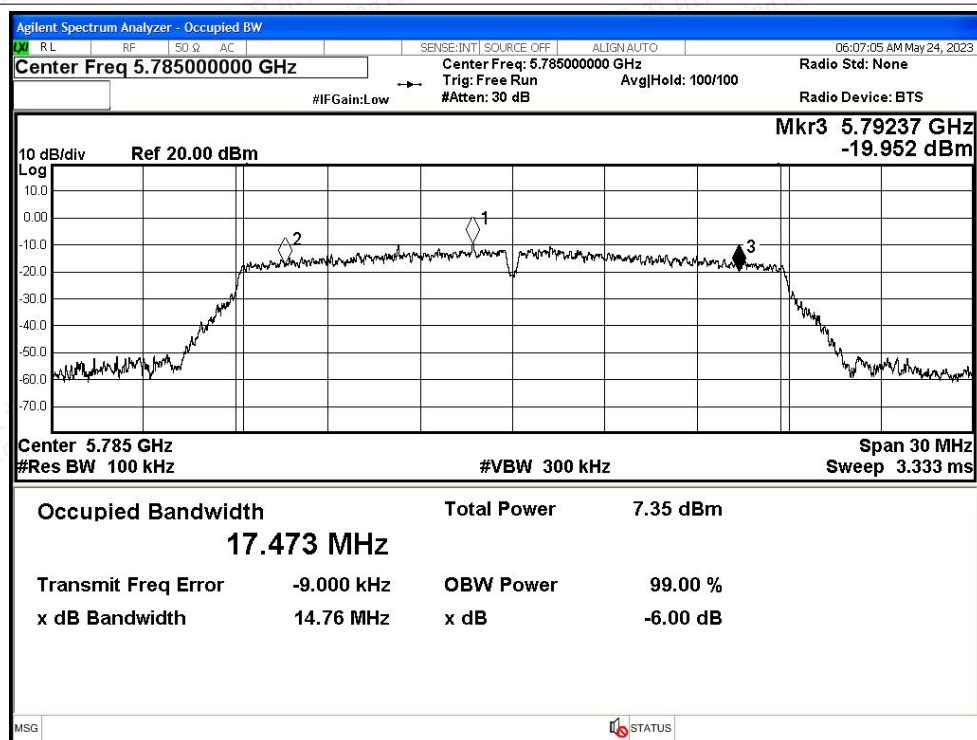
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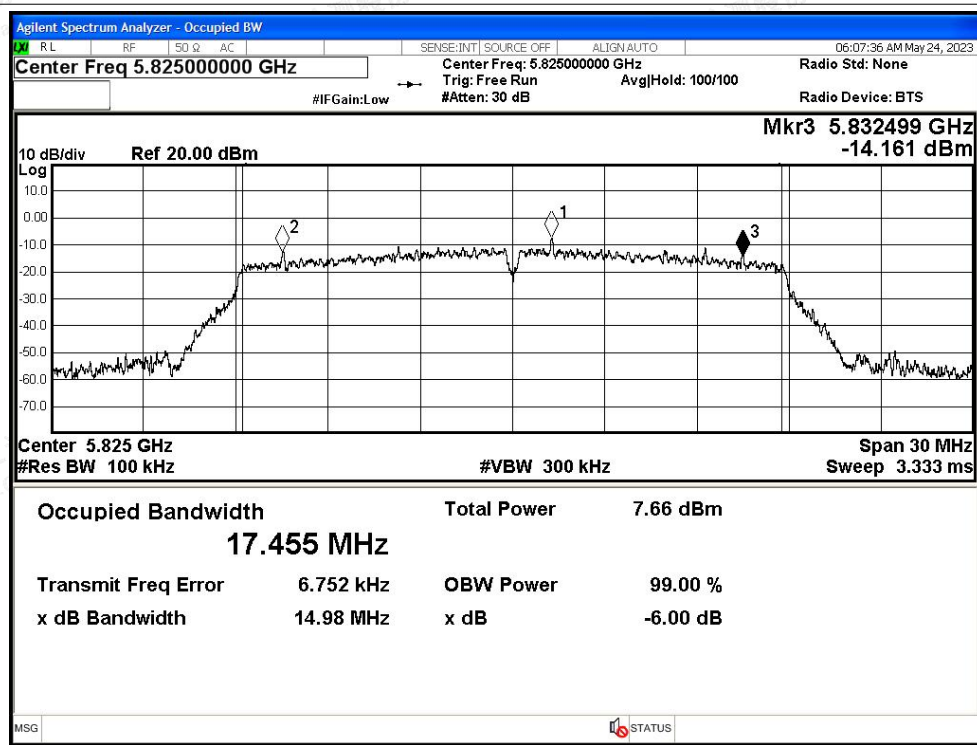
Scan code to check authenticity



-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



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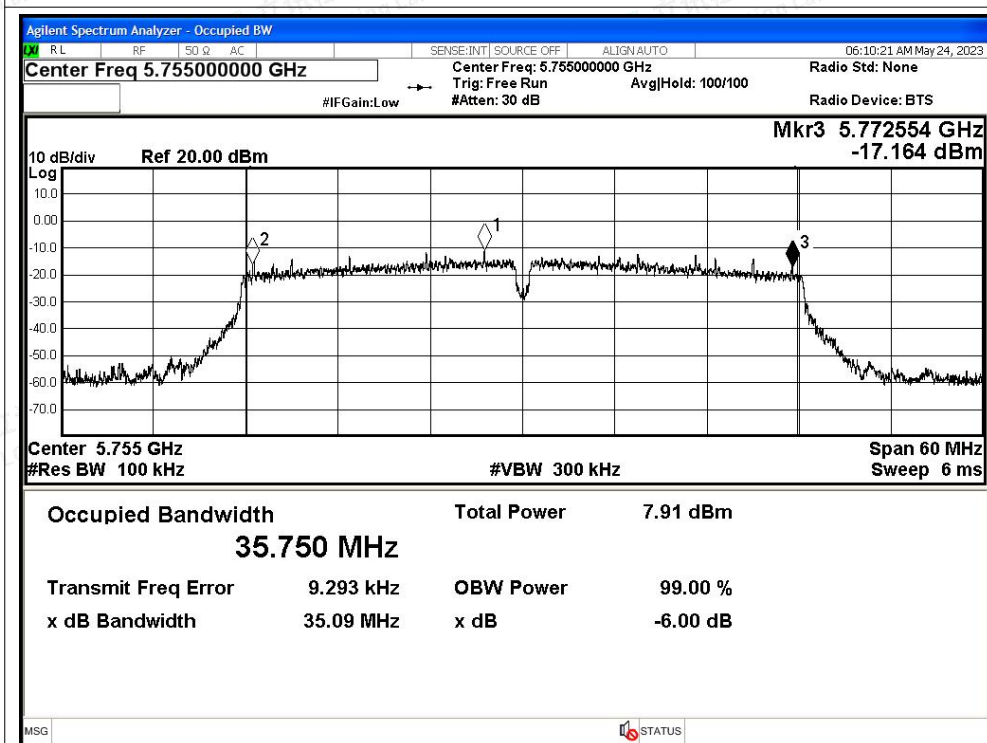
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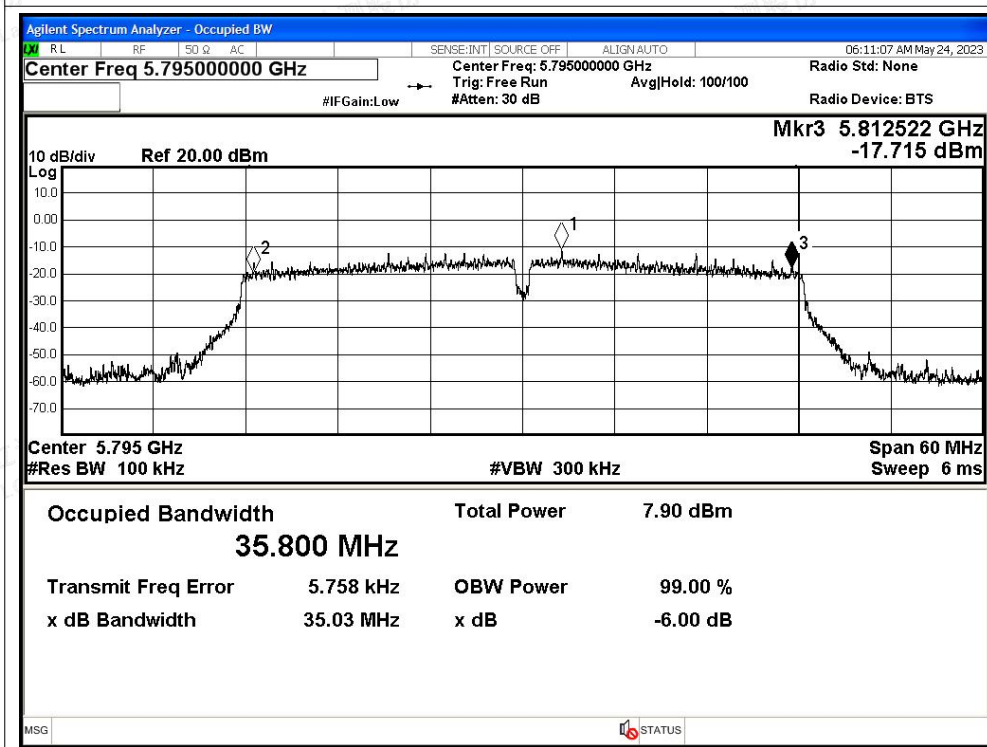
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-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1



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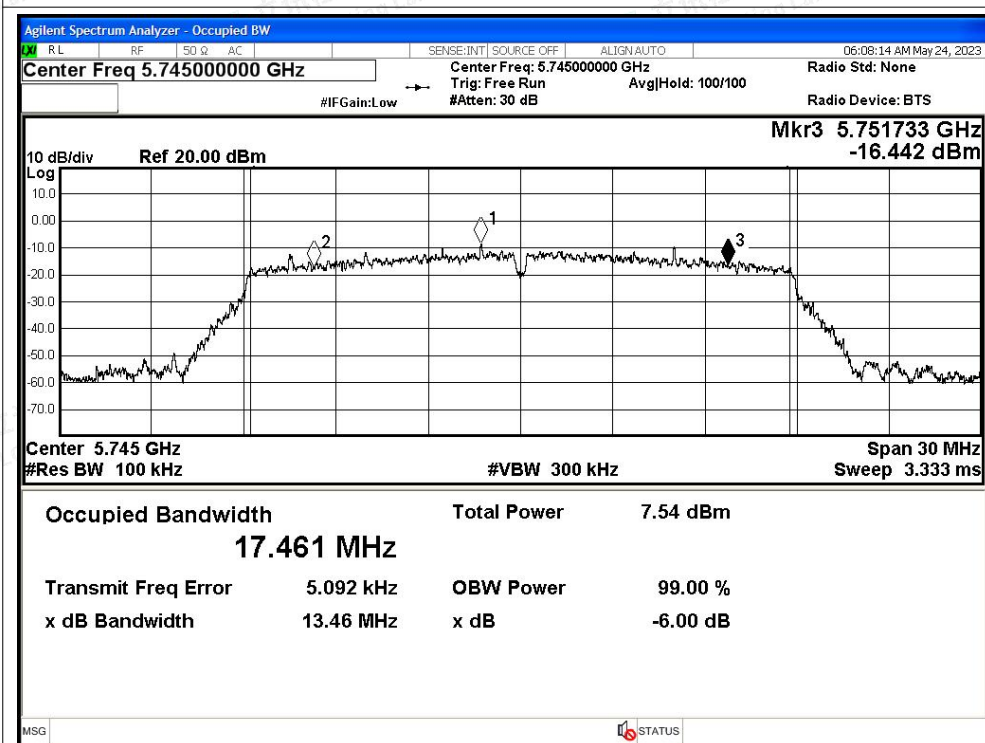
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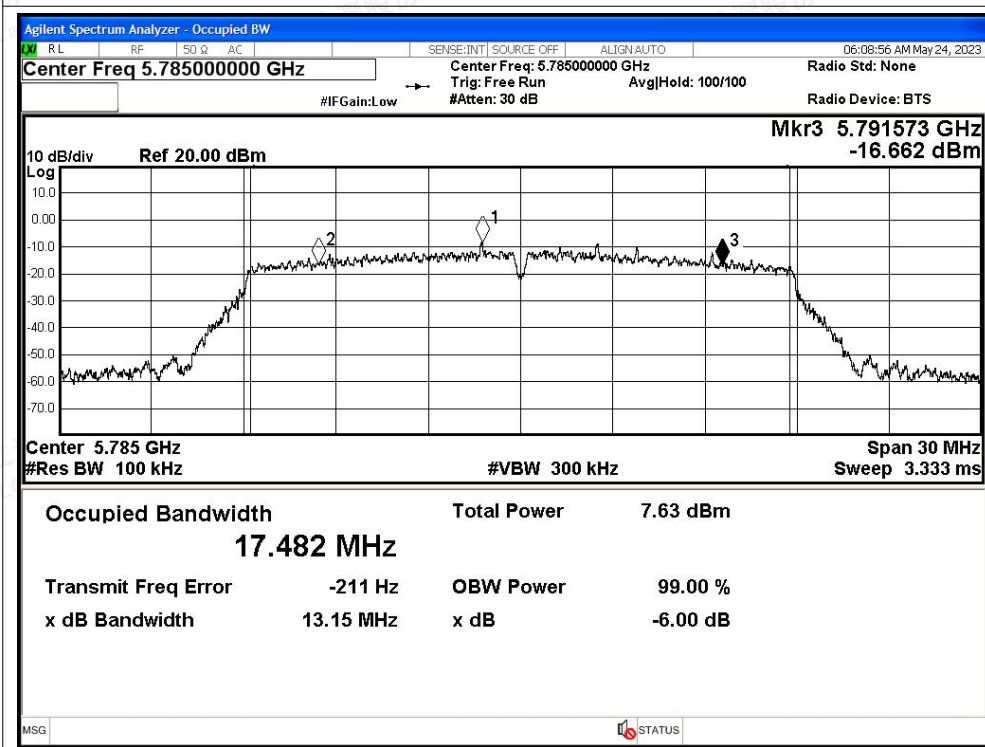
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-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



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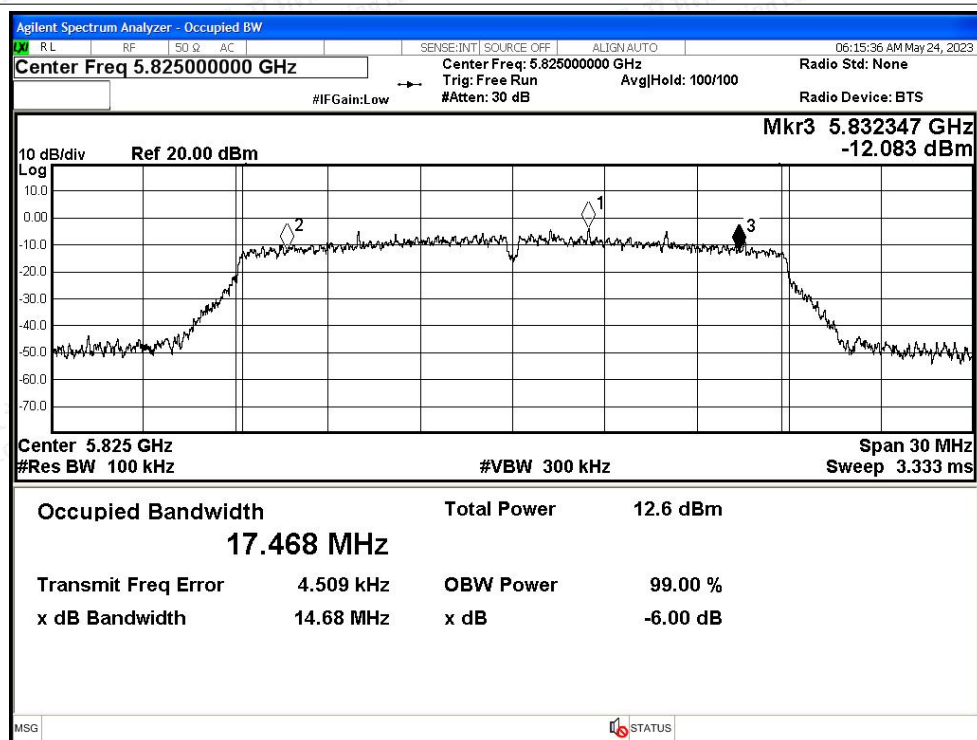
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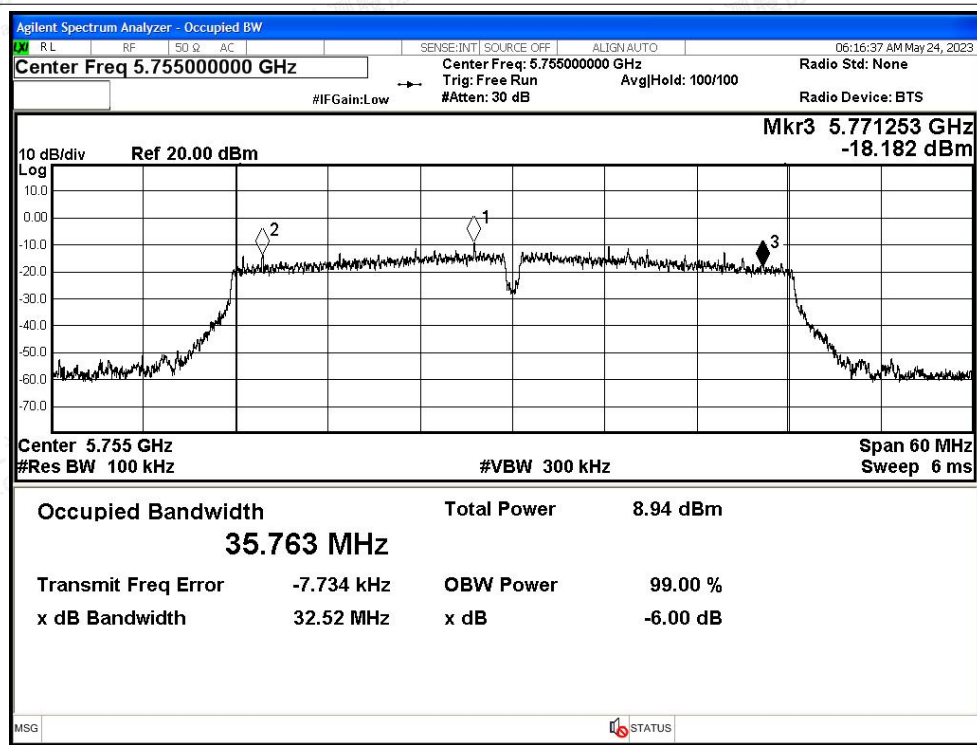
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-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ac40 5755MHz Ant1



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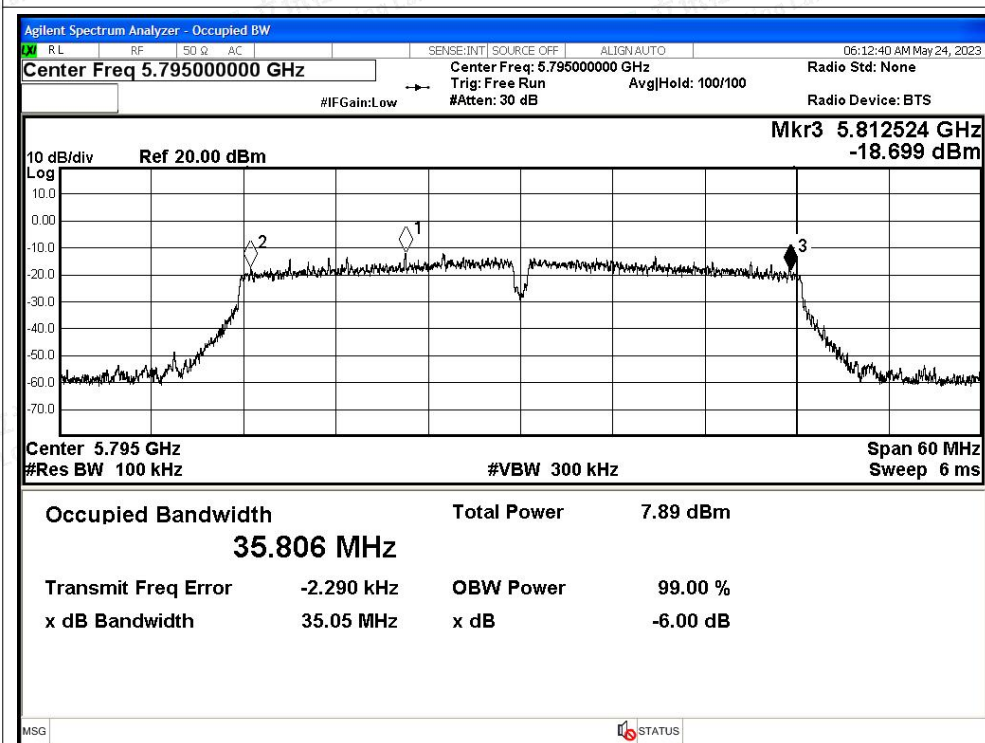
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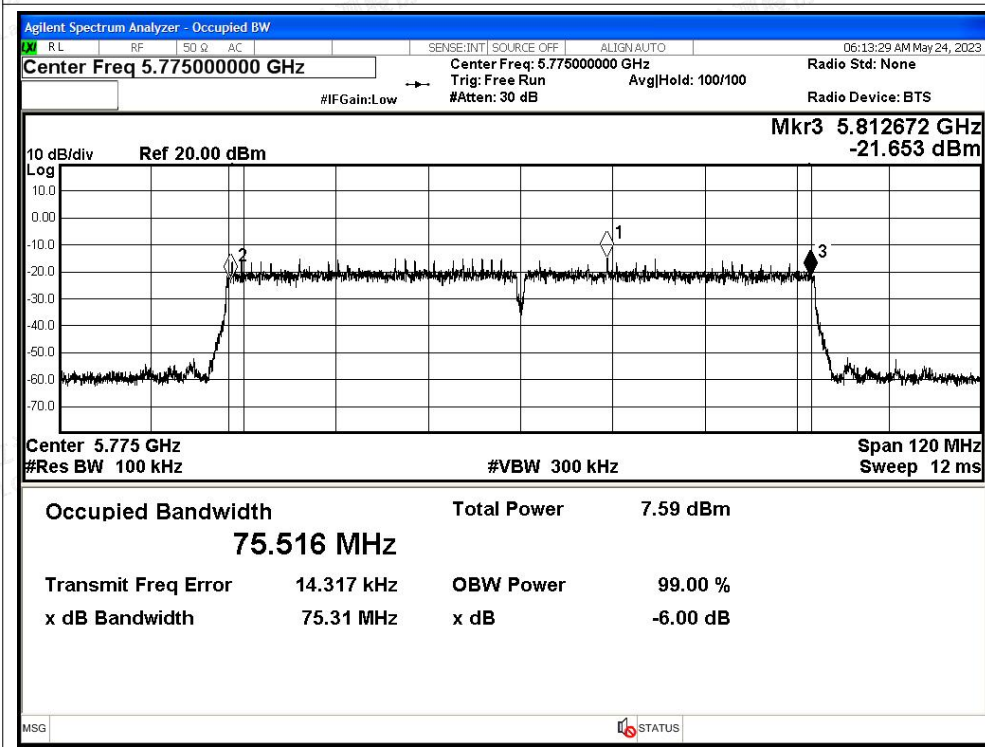
Scan code to check authenticity



-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



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G.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant0	9.97	0.13	10.1	30	Pass
NVNT	a	5785	Ant0	10.34	0.14	10.48	30	Pass
NVNT	a	5825	Ant0	10.05	0.13	10.18	30	Pass
NVNT	n20	5745	Ant0	9.89	0.15	10.04	30	Pass
NVNT	n20	5785	Ant0	10.28	0.14	10.42	30	Pass
NVNT	n20	5825	Ant0	10.46	0.14	10.6	30	Pass
NVNT	n40	5755	Ant0	10.49	0.29	10.78	30	Pass
NVNT	n40	5795	Ant0	10.41	0.28	10.69	30	Pass
NVNT	ac20	5745	Ant0	10.7	0.15	10.85	30	Pass
NVNT	ac20	5785	Ant0	10.7	0.14	10.84	30	Pass
NVNT	ac20	5825	Ant0	10.4	0.14	10.54	30	Pass
NVNT	ac40	5755	Ant0	10.62	0.28	10.9	30	Pass
NVNT	ac40	5795	Ant0	10.11	0.28	10.39	30	Pass
NVNT	ac80	5775	Ant0	10.66	0.55	11.21	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	10.16	0.11	10.27	30	Pass
NVNT	a	5785	Ant1	9.9	0.11	10.01	30	Pass
NVNT	a	5825	Ant1	9.95	0.11	10.06	30	Pass
NVNT	n20	5745	Ant1	9.74	0.12	9.86	30	Pass
NVNT	n20	5785	Ant1	10.34	0.12	10.46	30	Pass
NVNT	n20	5825	Ant1	10.75	0.12	10.87	30	Pass
NVNT	n40	5755	Ant1	10.31	0.23	10.54	30	Pass
NVNT	n40	5795	Ant1	10.6	0.23	10.83	30	Pass
NVNT	ac20	5745	Ant1	10.8	0.12	10.92	30	Pass
NVNT	ac20	5785	Ant1	10.4	0.11	10.51	30	Pass
NVNT	ac20	5825	Ant1	10.76	0.12	10.88	30	Pass
NVNT	ac40	5755	Ant1	10.33	0.23	10.56	30	Pass
NVNT	ac40	5795	Ant1	10.64	0.23	10.87	30	Pass
NVNT	ac80	5775	Ant1	10.73	0.44	11.17	30	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	10.04	9.86	12.96	30	Pass
NVNT	n20	5785	10.42	10.46	13.45	30	Pass
NVNT	n20	5825	10.6	10.87	13.75	30	Pass
NVNT	n40	5755	10.78	10.54	13.67	30	Pass
NVNT	n40	5795	10.69	10.83	13.77	30	Pass
NVNT	ac20	5745	10.85	10.92	13.90	30	Pass
NVNT	ac20	5785	10.84	10.51	13.69	30	Pass
NVNT	ac20	5825	10.54	10.88	13.72	30	Pass
NVNT	ac40	5755	10.9	10.56	13.74	30	Pass
NVNT	ac40	5795	10.39	10.87	13.65	30	Pass
NVNT	ac80	5775	11.21	11.17	14.20	30	Pass





G.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant0	-4.99	0.13	-4.86	30	Pass
NVNT	a	5785	Ant0	-5.51	0.14	-5.37	30	Pass
NVNT	a	5825	Ant0	-5.31	0.13	-5.18	30	Pass
NVNT	n20	5745	Ant0	-5.91	0.15	-5.76	30	Pass
NVNT	n20	5785	Ant0	-5.31	0.14	-5.17	30	Pass
NVNT	n20	5825	Ant0	-5.15	0.14	-5.01	30	Pass
NVNT	n40	5755	Ant0	-8.66	0.29	-8.37	30	Pass
NVNT	n40	5795	Ant0	-8.38	0.28	-8.1	30	Pass
NVNT	ac20	5745	Ant0	-4.95	0.15	-4.8	30	Pass
NVNT	ac20	5785	Ant0	-4.85	0.14	-4.71	30	Pass
NVNT	ac20	5825	Ant0	-5.35	0.14	-5.21	30	Pass
NVNT	ac40	5755	Ant0	-8.39	0.28	-8.11	30	Pass
NVNT	ac40	5795	Ant0	-8.34	0.28	-8.06	30	Pass
NVNT	ac80	5775	Ant0	-13.26	0.55	-12.71	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-5.15	0.11	-5.04	30	Pass
NVNT	a	5785	Ant1	-5.35	0.11	-5.24	30	Pass
NVNT	a	5825	Ant1	-5.1	0.11	-4.99	30	Pass
NVNT	n20	5745	Ant1	-5.67	0.12	-5.55	30	Pass
NVNT	n20	5785	Ant1	-4.77	0.12	-4.65	30	Pass
NVNT	n20	5825	Ant1	-3.77	0.12	-3.65	30	Pass
NVNT	n40	5755	Ant1	-7.85	0.23	-7.62	30	Pass
NVNT	n40	5795	Ant1	-7.85	0.23	-7.62	30	Pass
NVNT	ac20	5745	Ant1	-4.21	0.12	-4.09	30	Pass
NVNT	ac20	5785	Ant1	-4.81	0.11	-4.7	30	Pass
NVNT	ac20	5825	Ant1	-4.37	0.12	-4.25	30	Pass
NVNT	ac40	5755	Ant1	-8.49	0.23	-8.26	30	Pass
NVNT	ac40	5795	Ant1	-8.1	0.23	-7.87	30	Pass
NVNT	ac80	5775	Ant1	-13.33	0.44	-12.89	30	Pass





MIMO

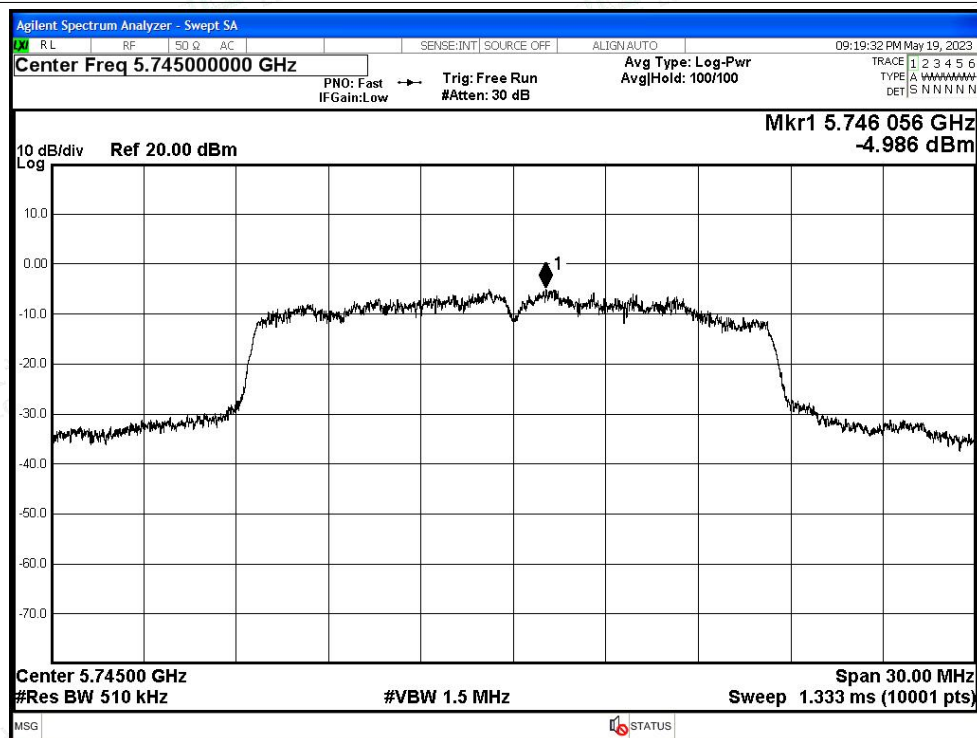
Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/500KHz)	Verdict
			Ant0	Ant1	Ant0+Ant1		
NVNT	n20	5745	-5.76	-5.55	-2.64	30	Pass
NVNT	n20	5785	-5.17	-4.65	-1.89	30	Pass
NVNT	n20	5825	-5.01	-3.65	-1.27	30	Pass
NVNT	n40	5755	-8.37	-7.62	-4.97	30	Pass
NVNT	n40	5795	-8.1	-7.62	-4.84	30	Pass
NVNT	ac20	5745	-4.8	-4.09	-1.42	30	Pass
NVNT	ac20	5785	-4.71	-4.7	-1.69	30	Pass
NVNT	ac20	5825	-5.21	-4.25	-1.69	30	Pass
NVNT	ac40	5755	-8.11	-8.26	-5.17	30	Pass
NVNT	ac40	5795	-8.06	-7.87	-4.95	30	Pass
NVNT	ac80	5775	-12.71	-12.89	-9.79	30	Pass



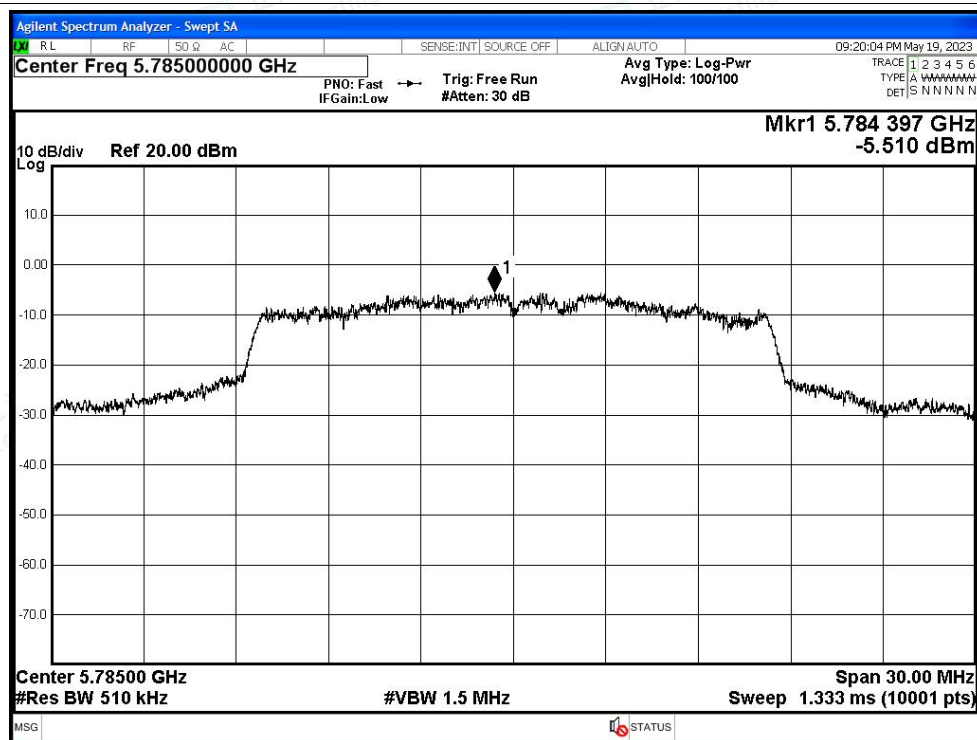


Test Graphs

PSD NVNT a 5745MHz Ant0



PSD NVNT a 5785MHz Ant0



Shenzhen LCS Compliance Testing Laboratory Ltd.

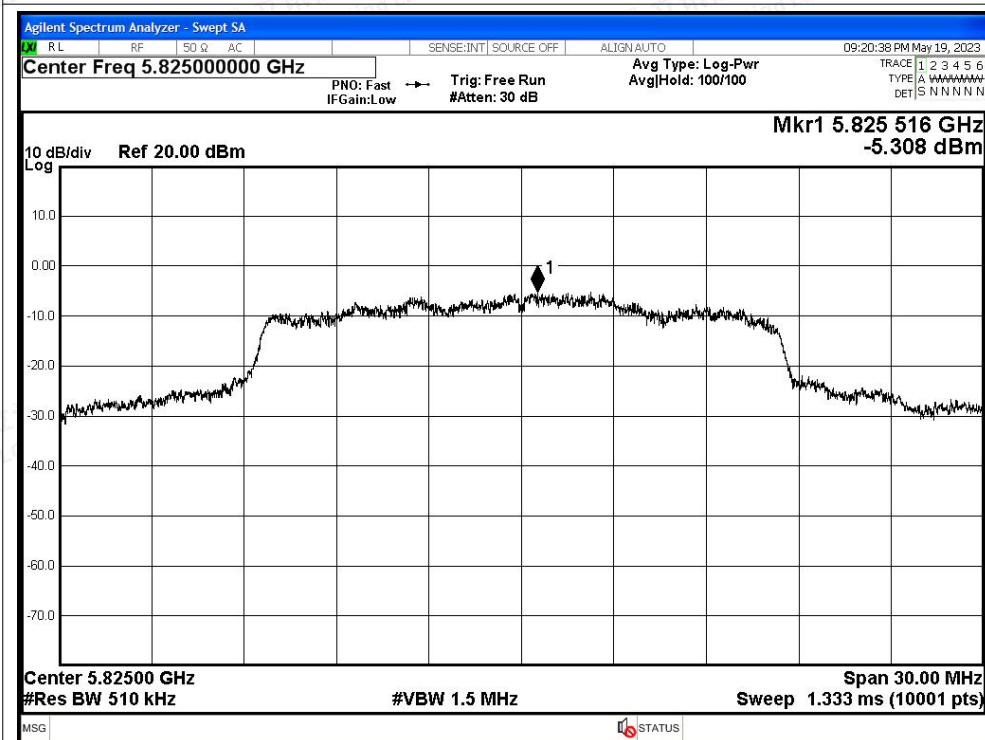
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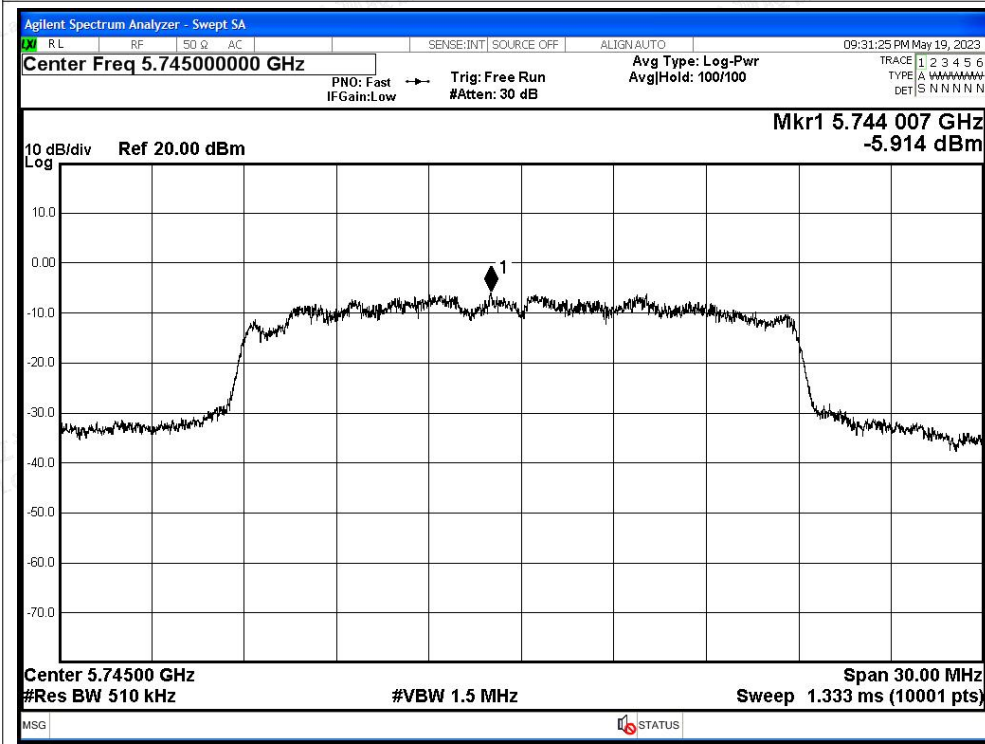
Scan code to check authenticity



PSD NVNT a 5825MHz Ant0



PSD NVNT n20 5745MHz Ant0

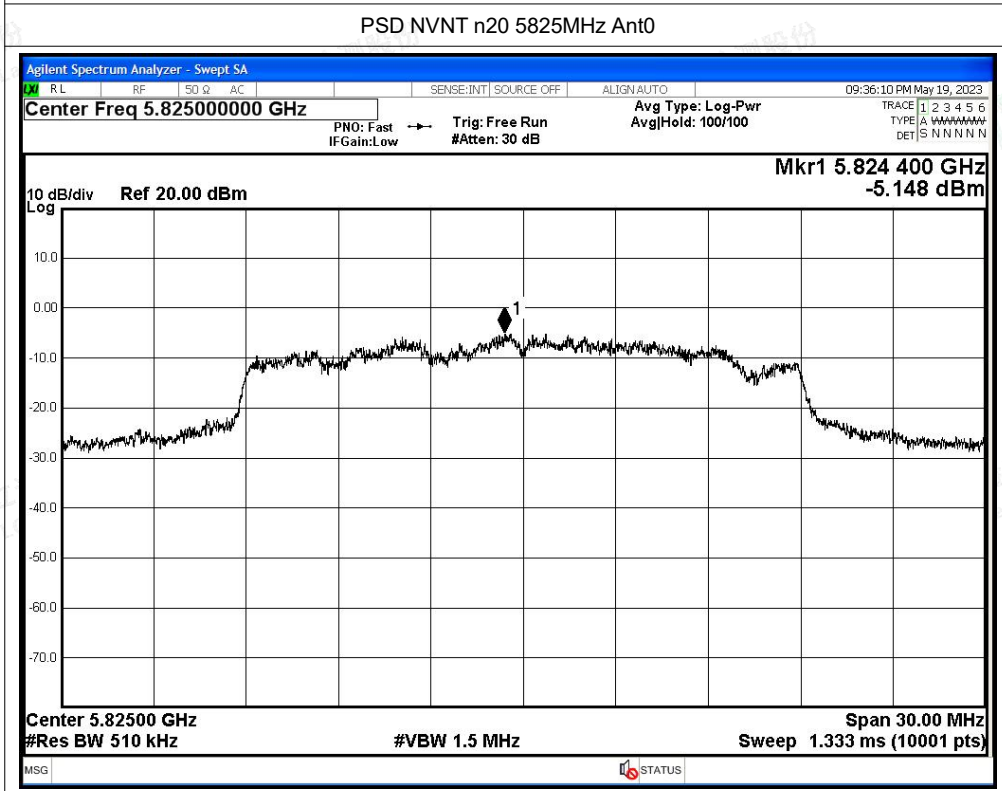
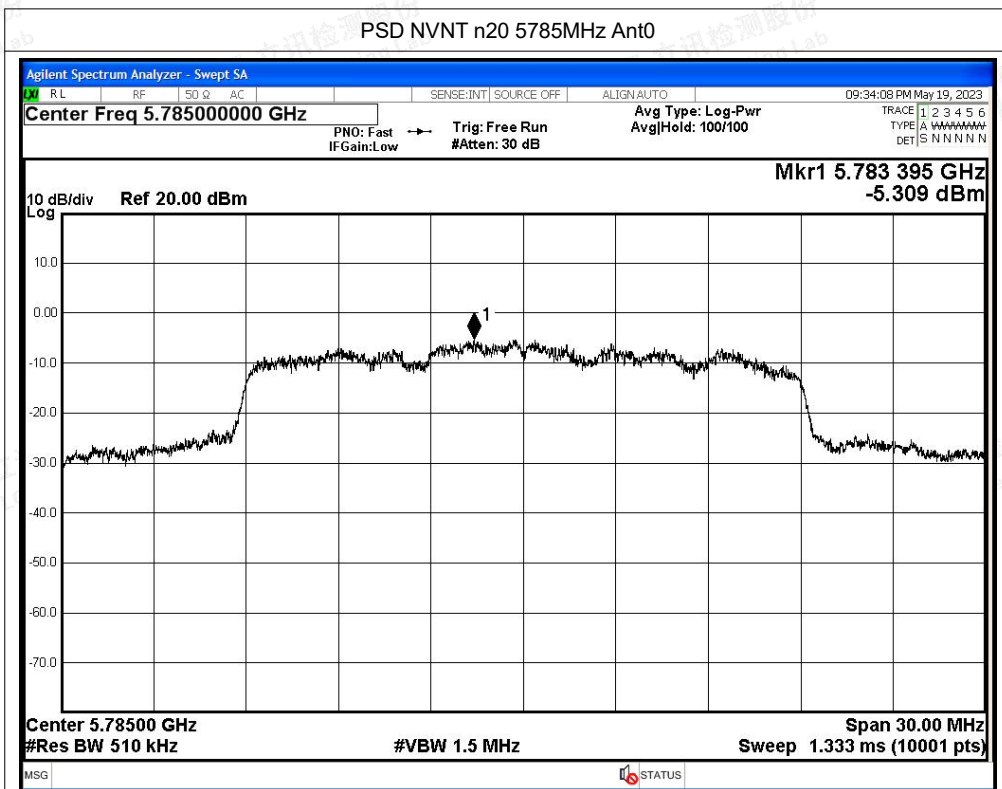


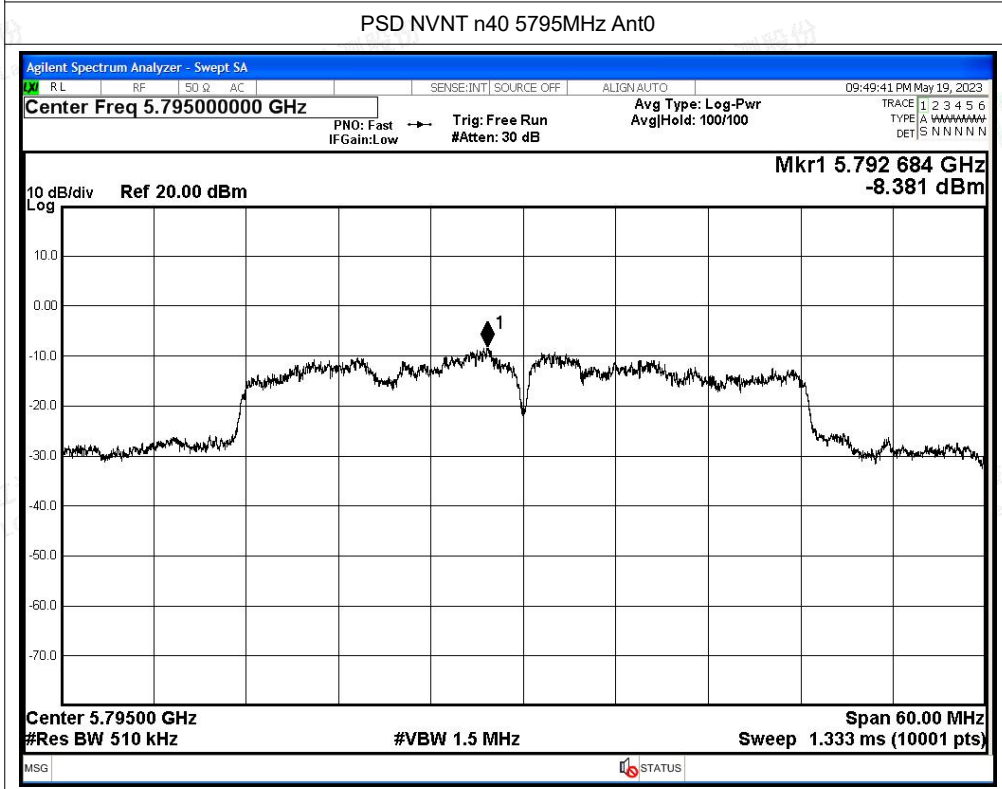
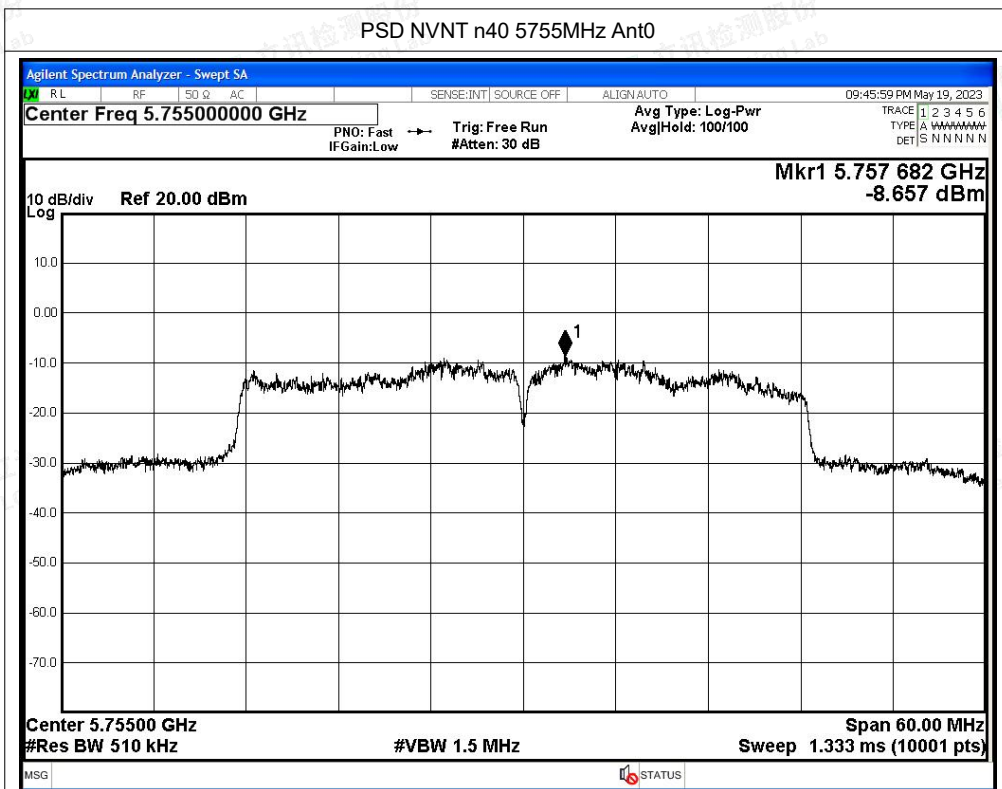
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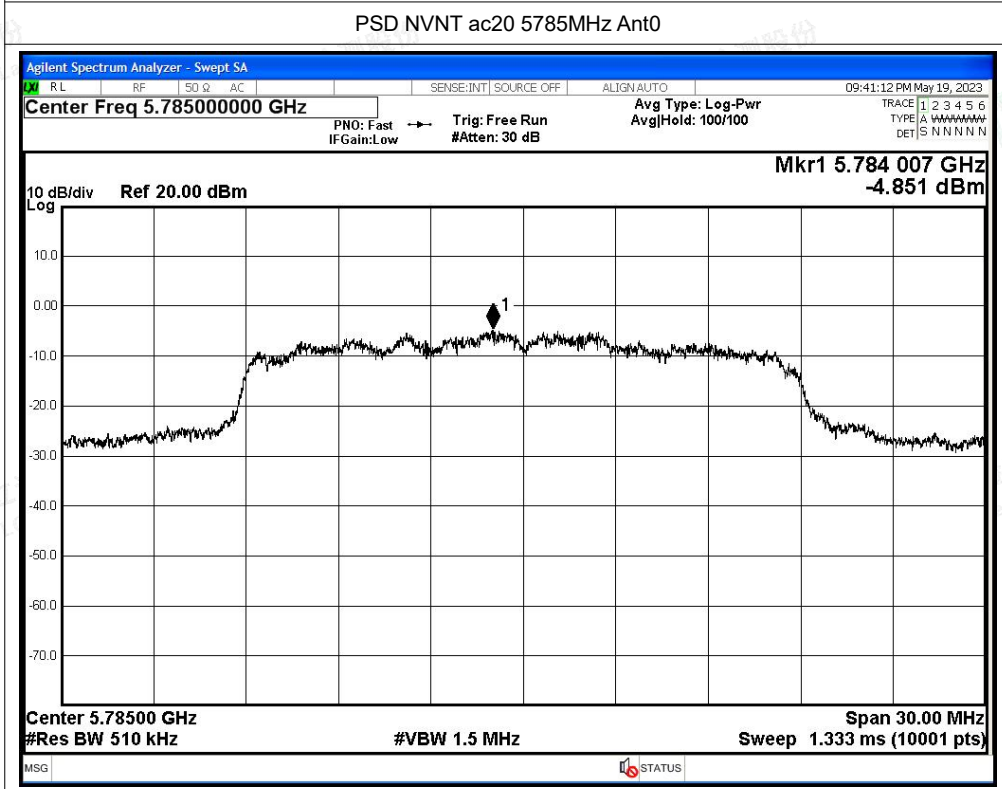
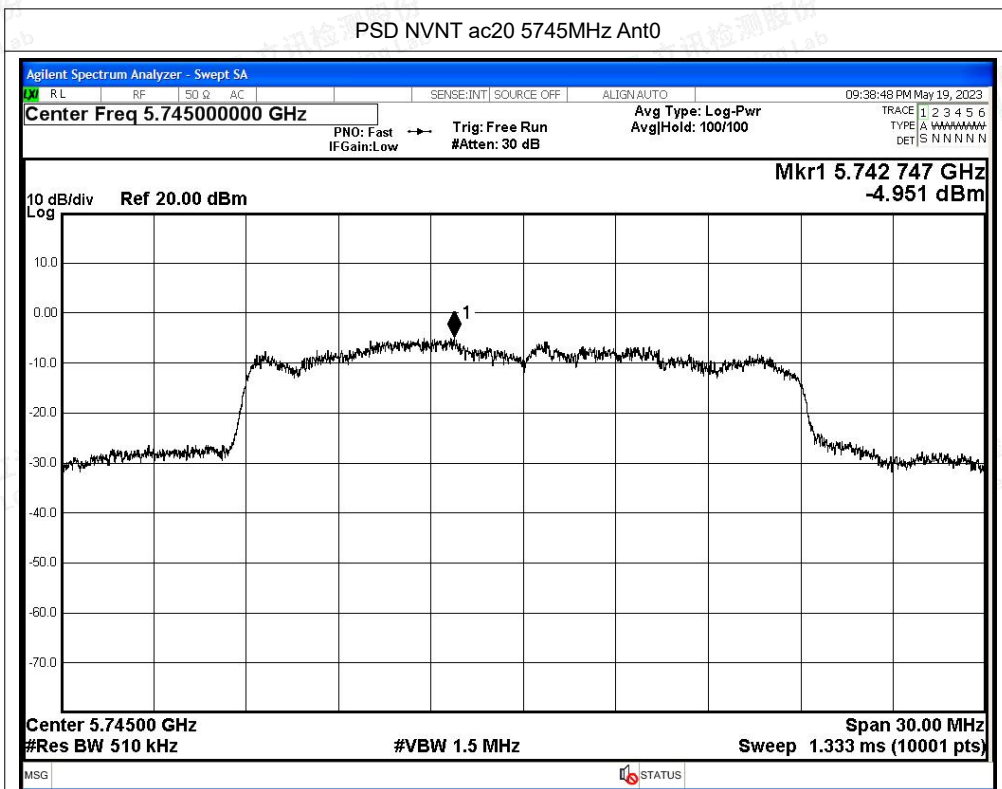
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

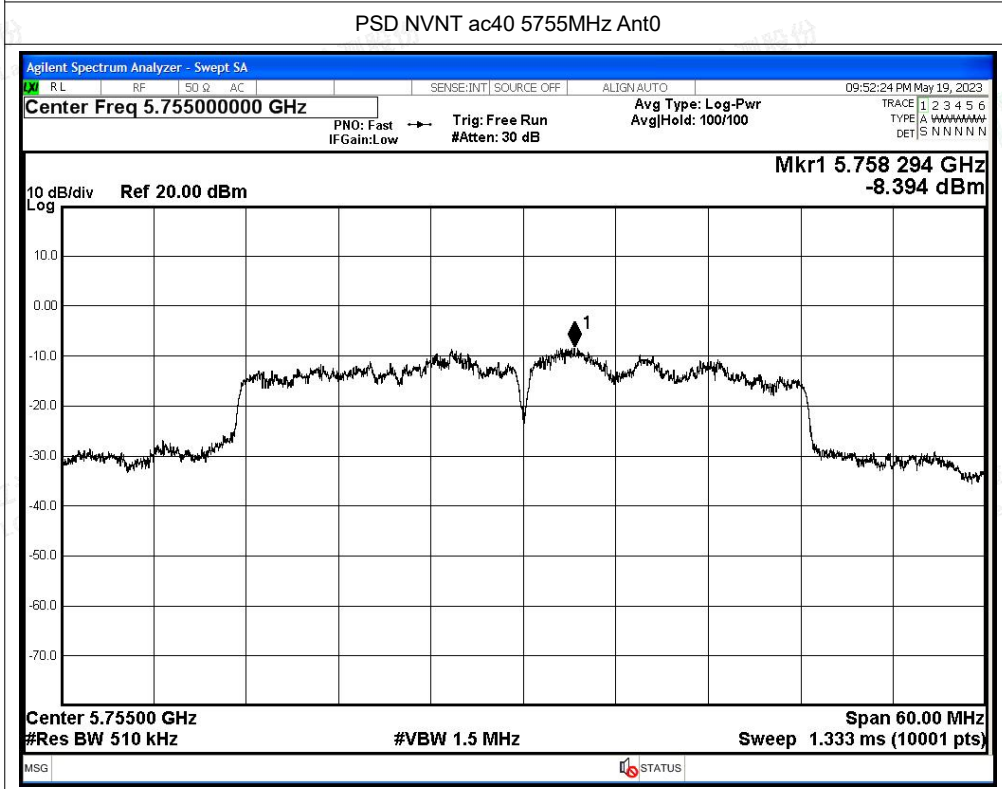
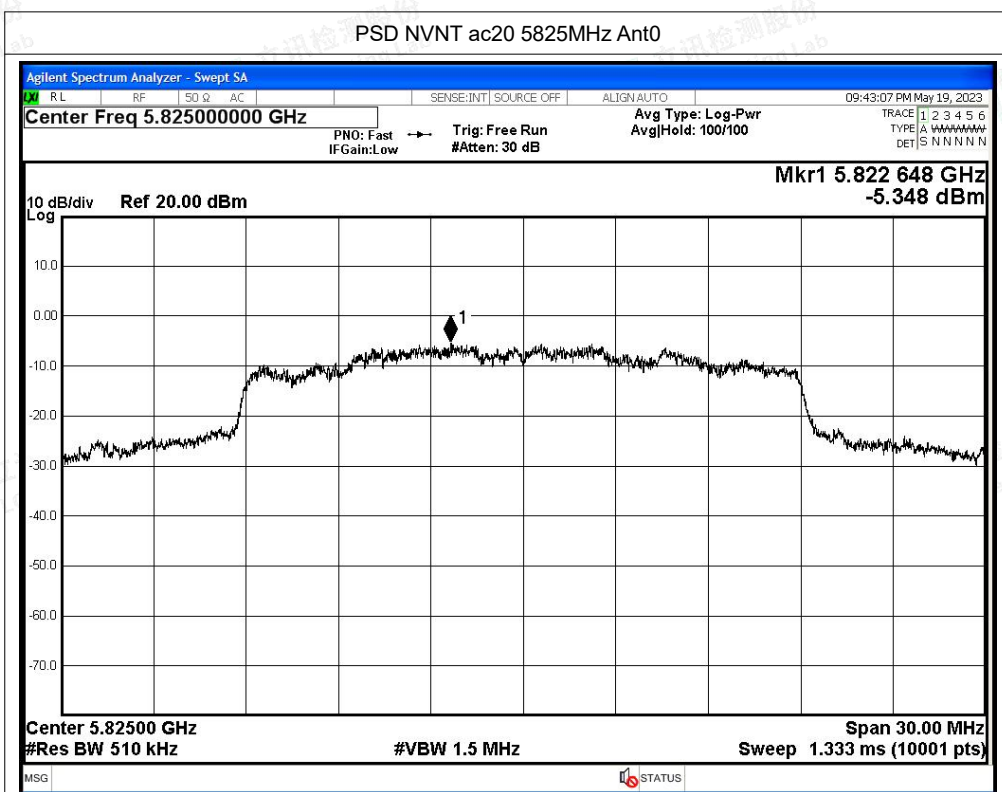
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

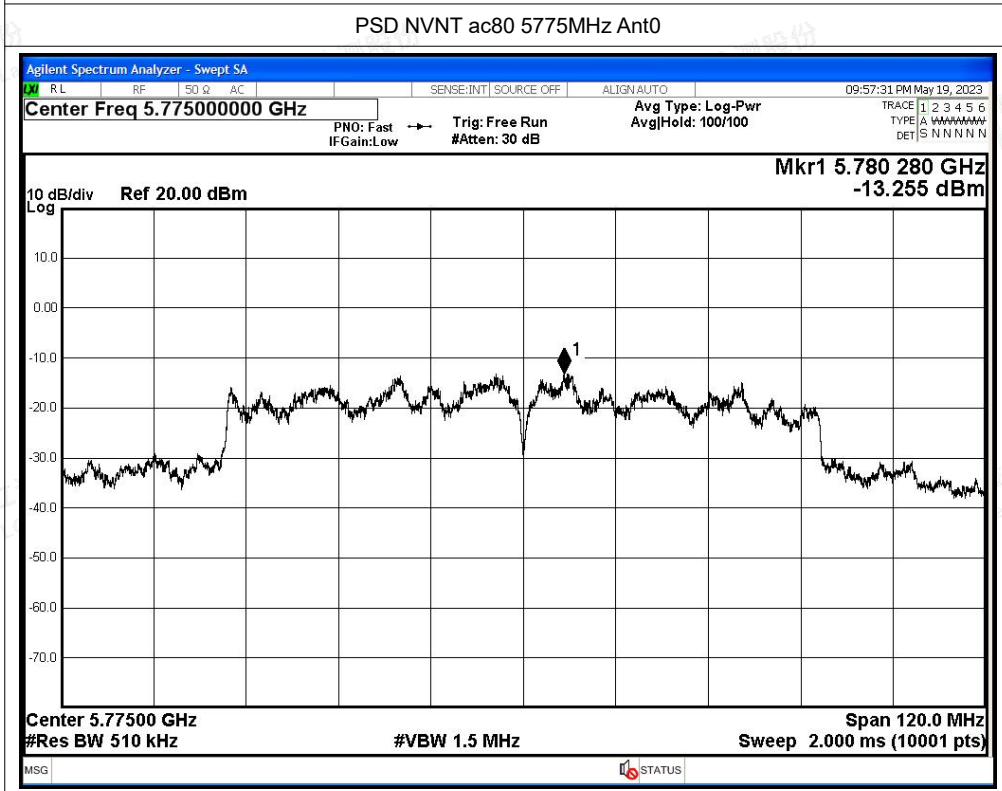
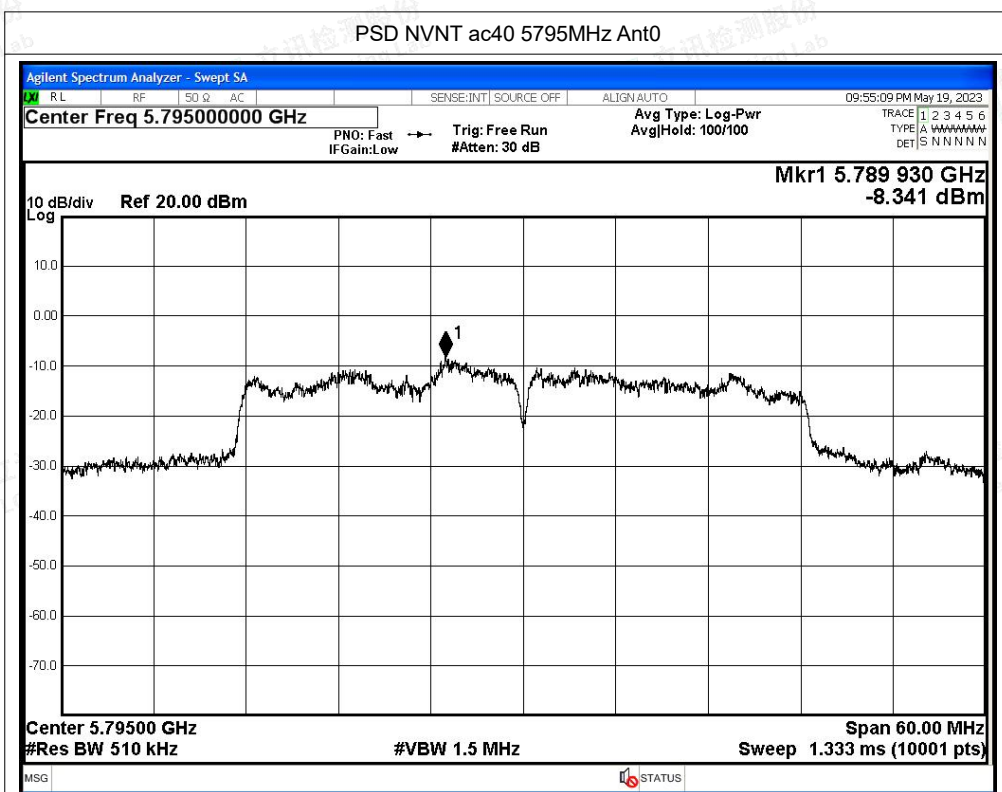
Scan code to check authenticity







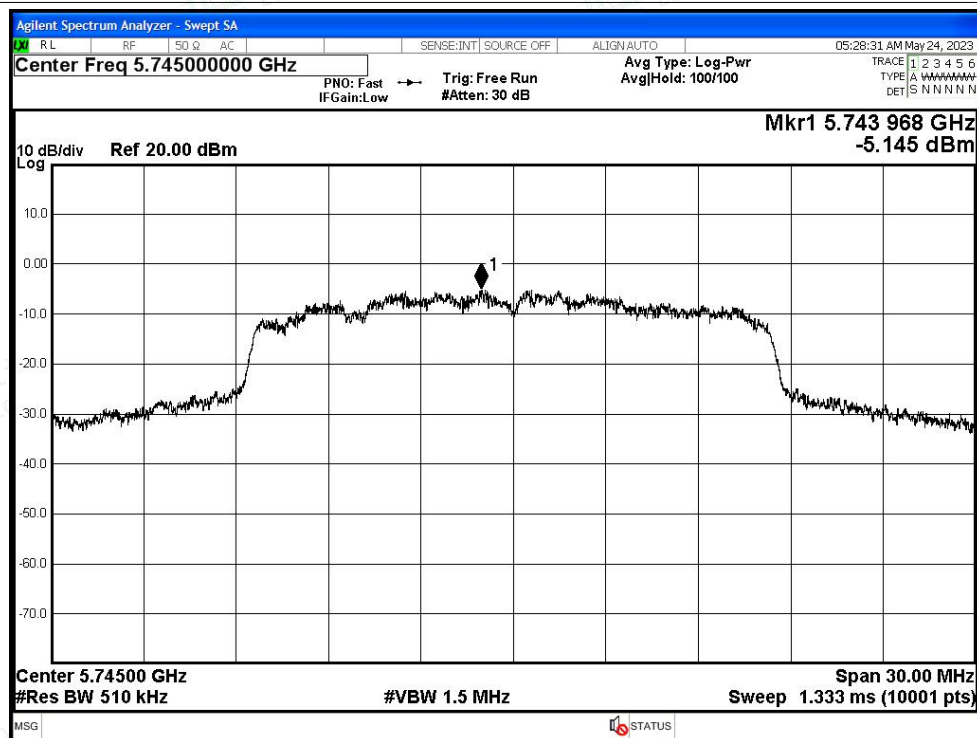




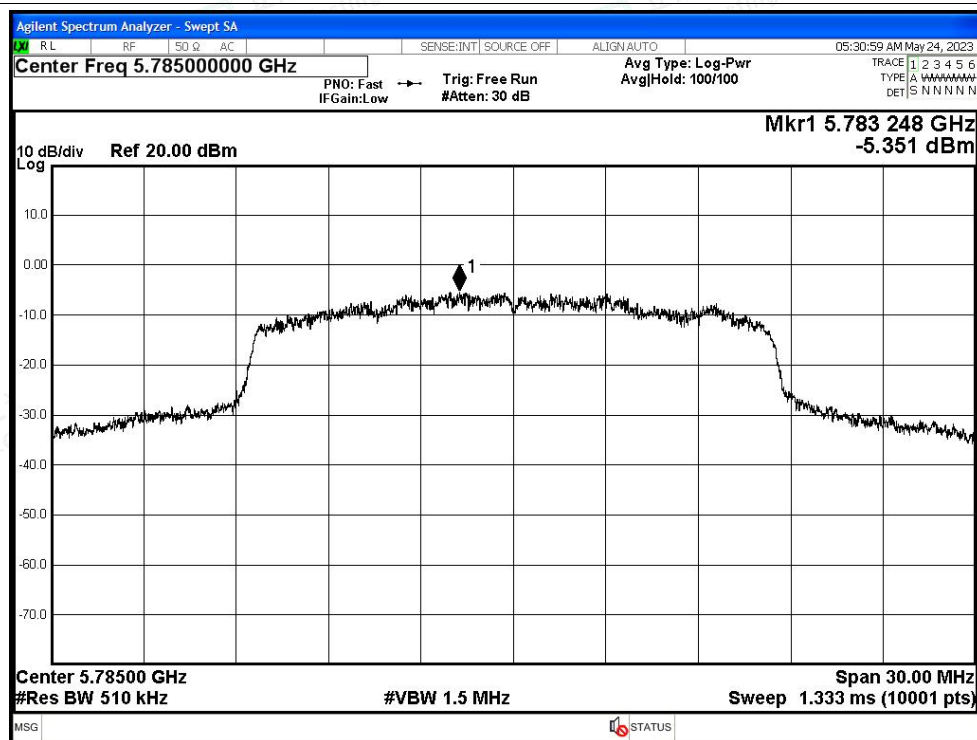


Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



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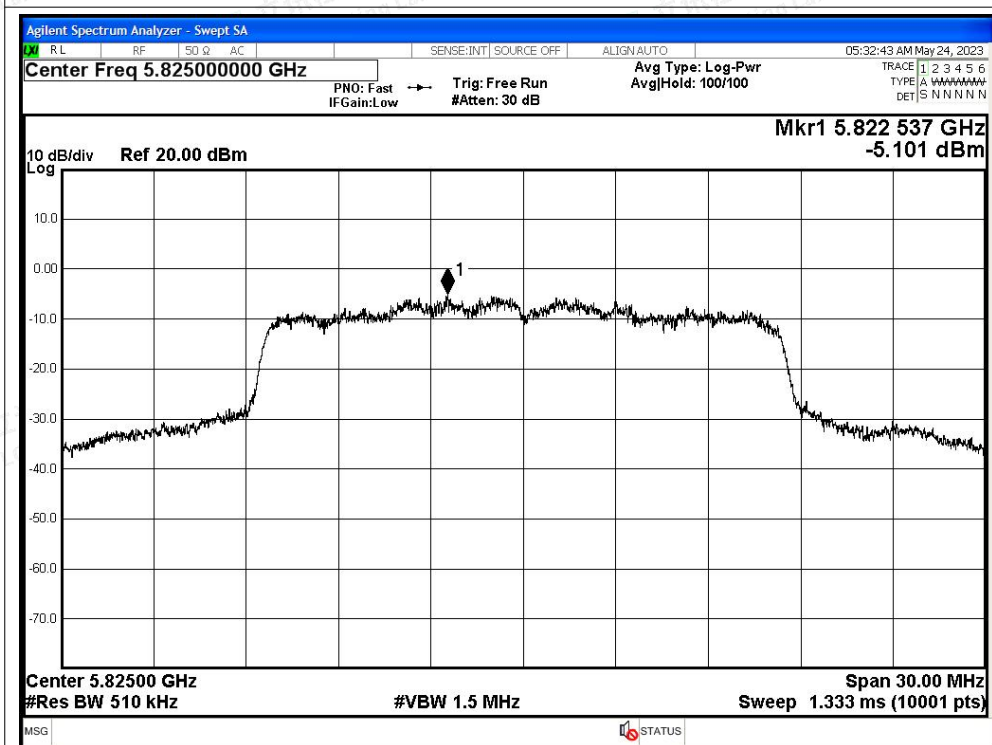
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1

