



Appendix D

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: BDE Dual Band (2.4 and 5 GHz) Wi-Fi 6 & BLE Combo Module

Test Model: BDE-BW3351N1

Environmental Conditions

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



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D.1 -6dB Bandwidth

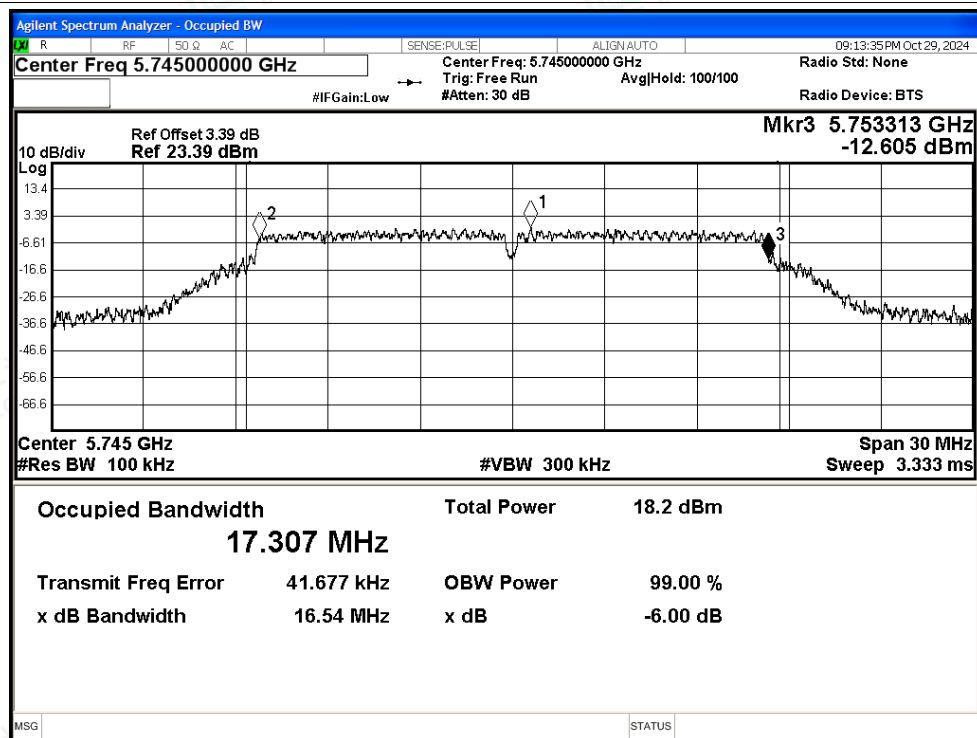
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.542	≥ 0.5	Pass
NVNT	a	5785	Ant1	15.991	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.28	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.277	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.655	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.546	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	17.561	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	17.733	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	17.509	≥ 0.5	Pass
NVNT	ax20	5745	Ant1	18.587	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	18.091	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	18.577	≥ 0.5	Pass



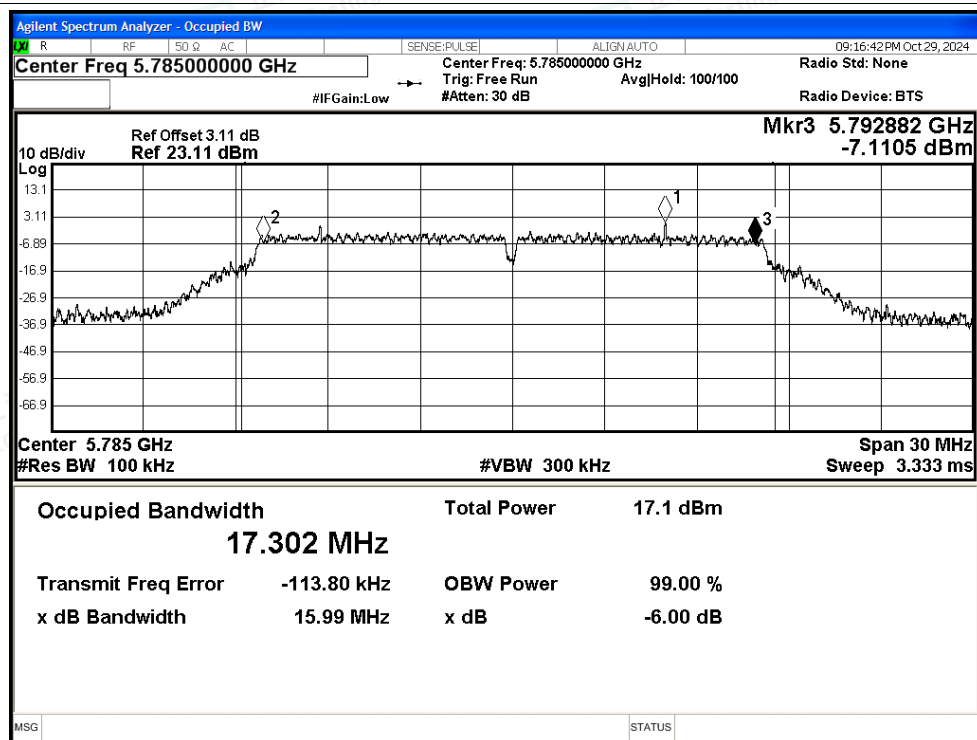


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



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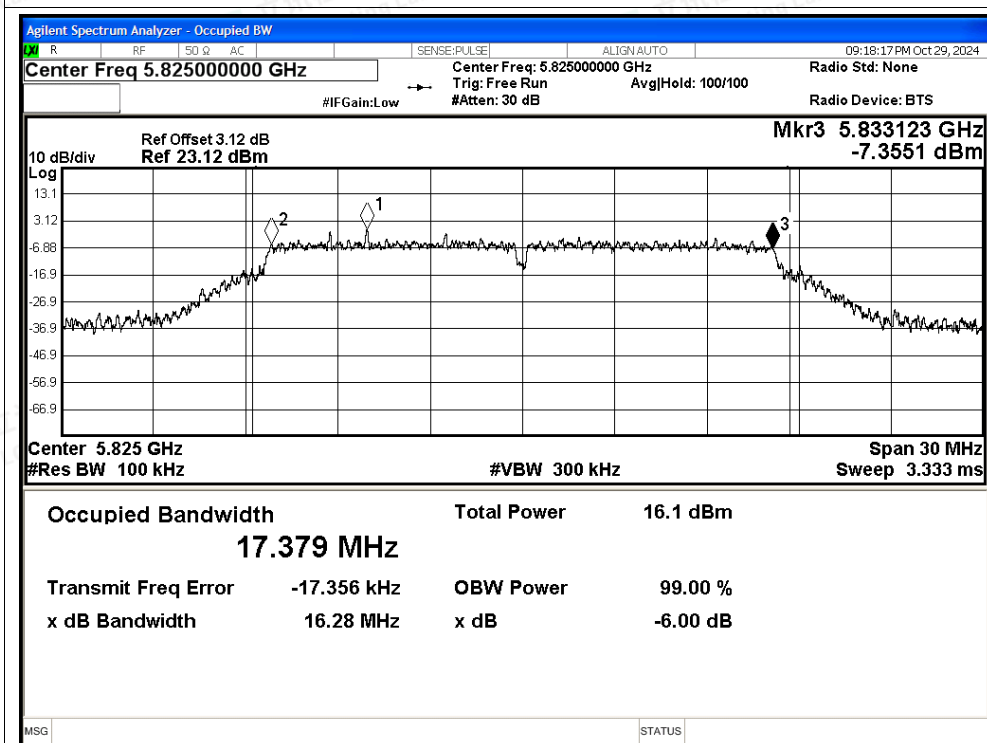
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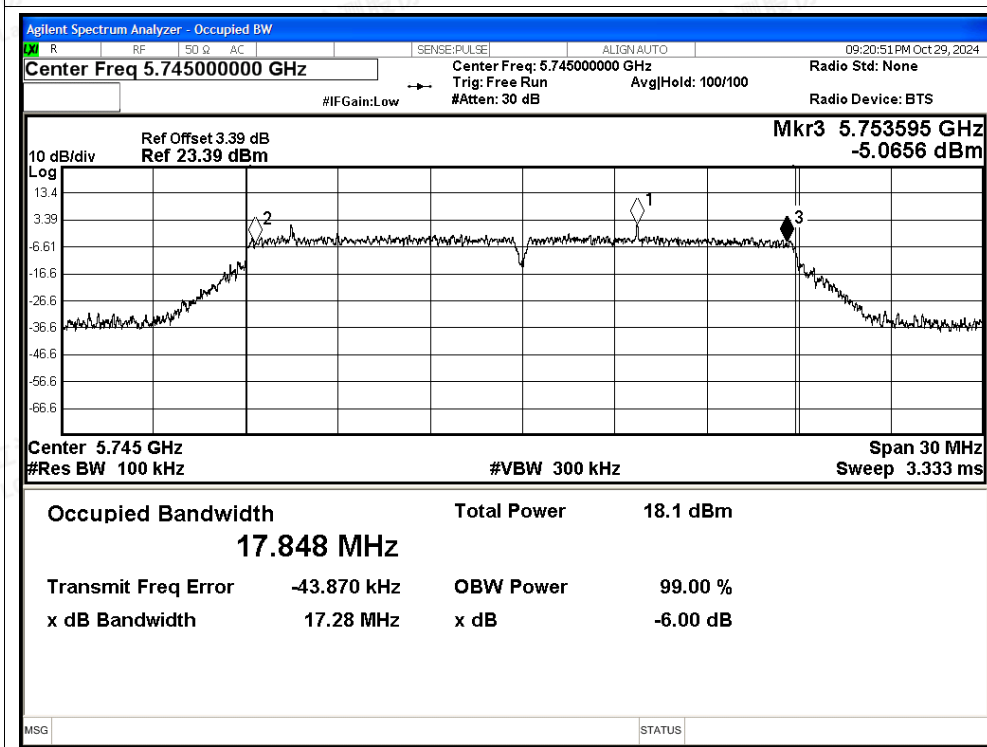
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-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



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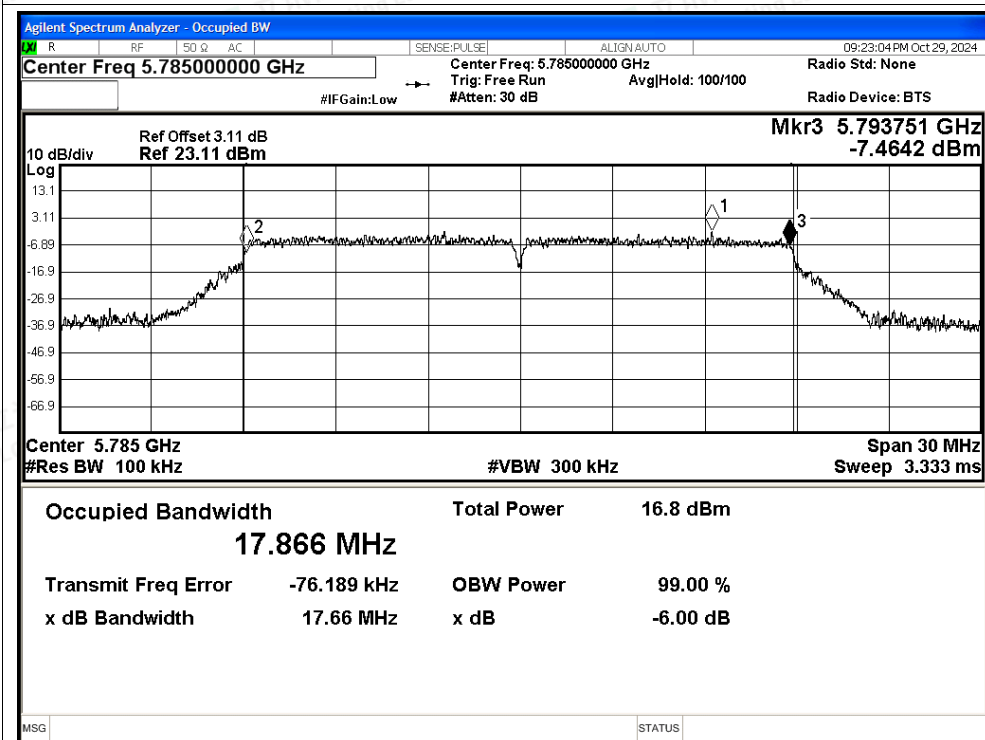
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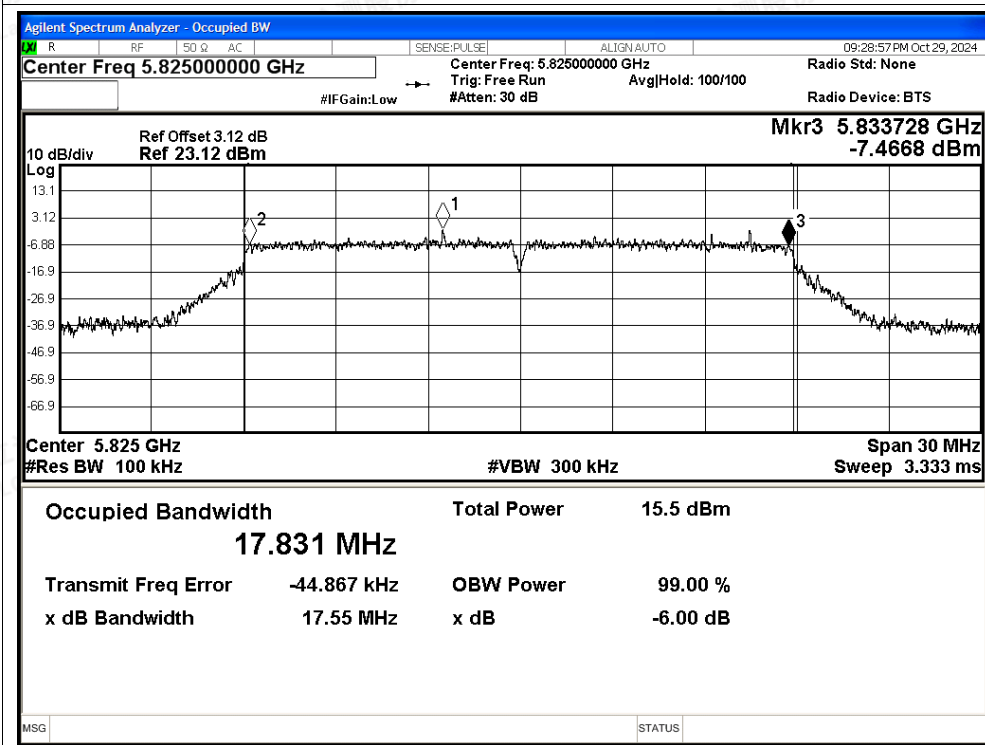
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-6dB Bandwidth NVNT n20 5785MHz Ant1



-6dB Bandwidth NVNT n20 5825MHz Ant1



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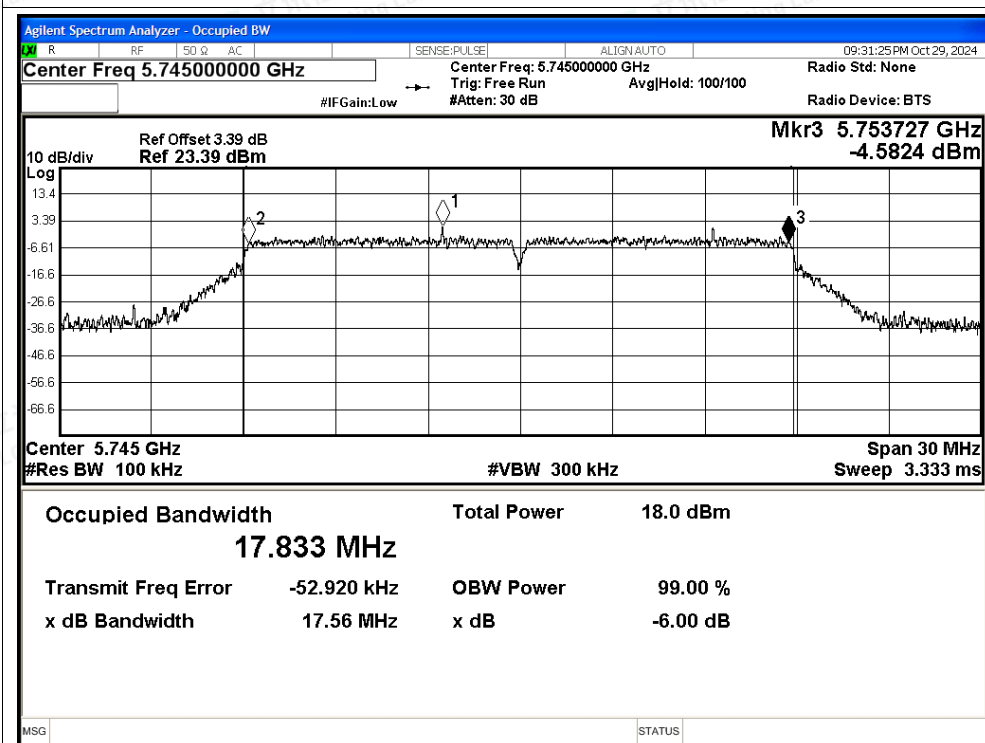
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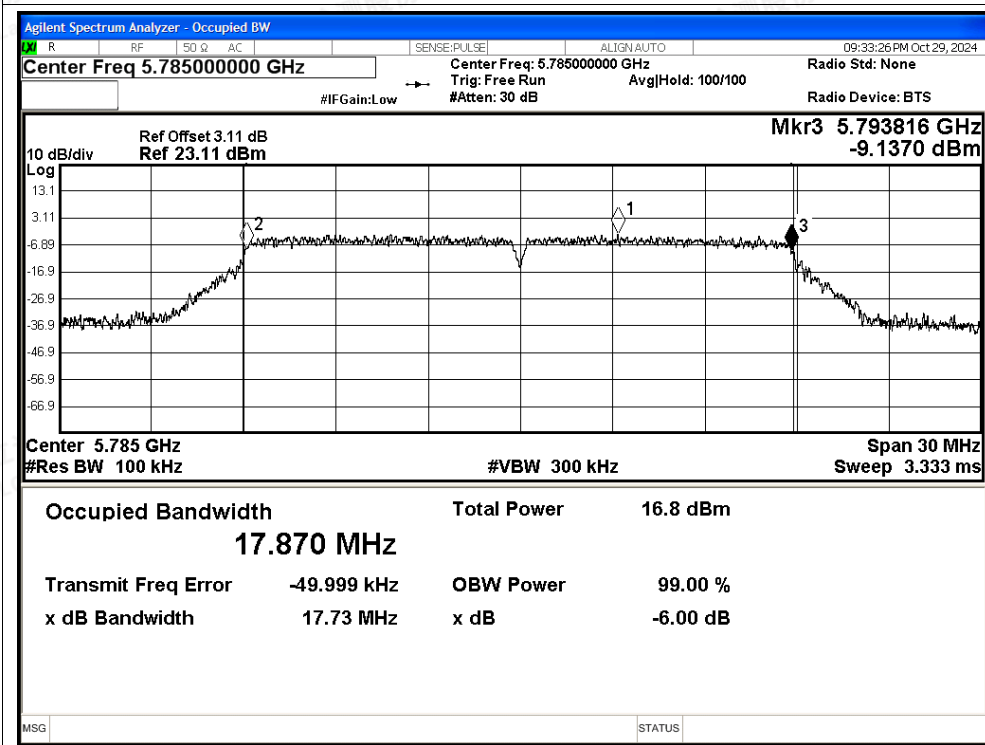
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-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



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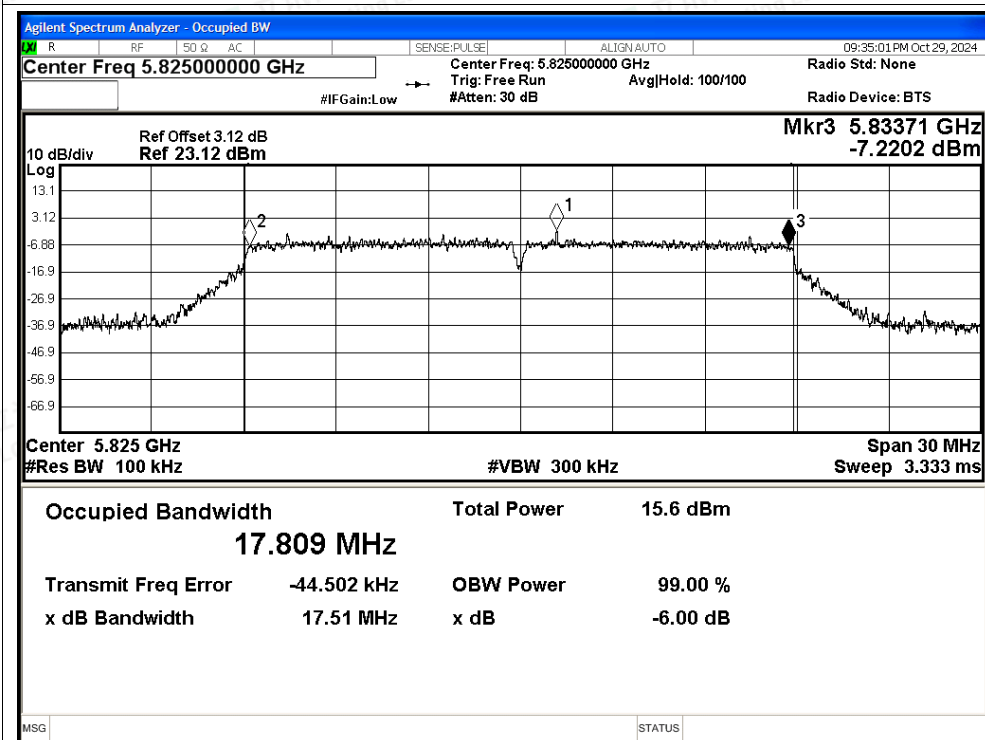
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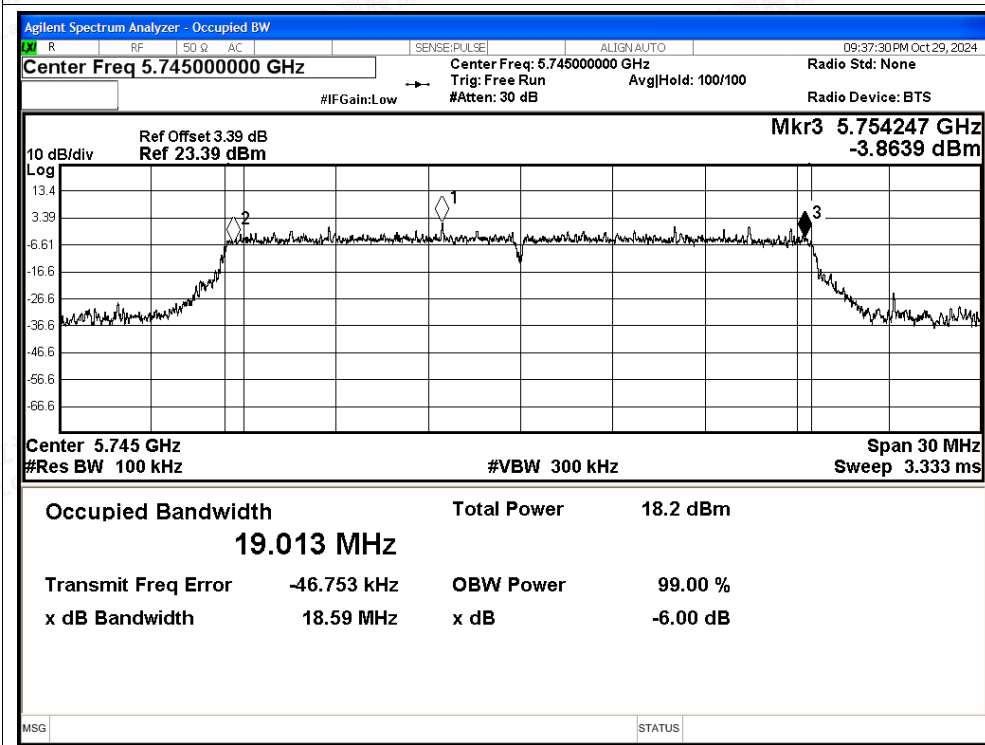
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-6dB Bandwidth NVNT ac20 5825MHz Ant1



-6dB Bandwidth NVNT ax20 5745MHz Ant1



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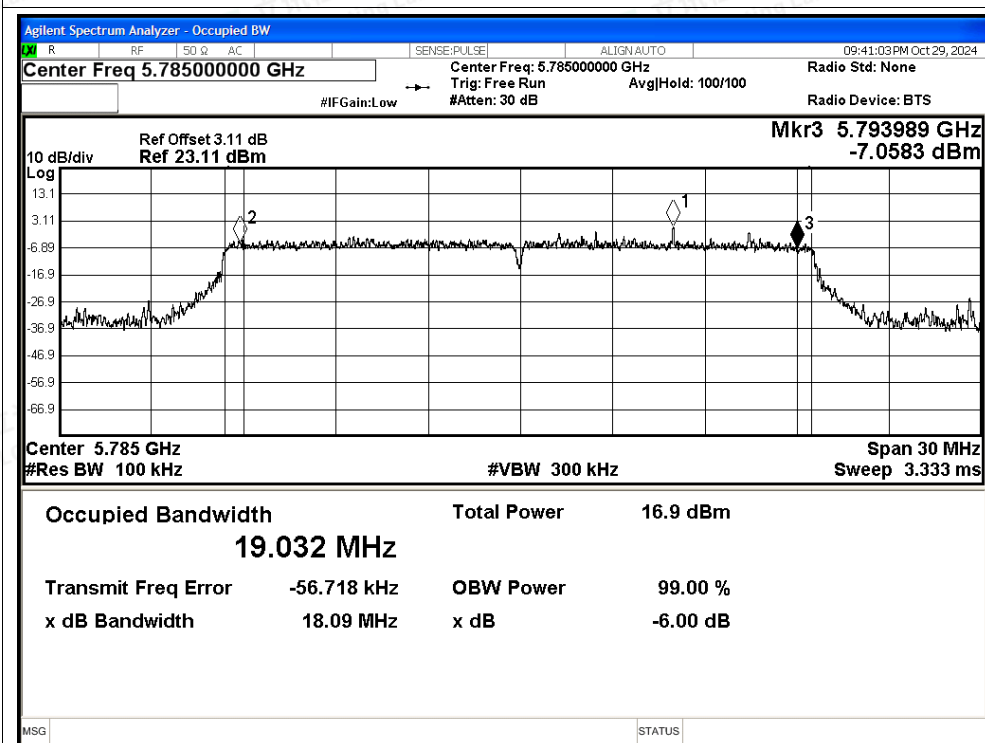
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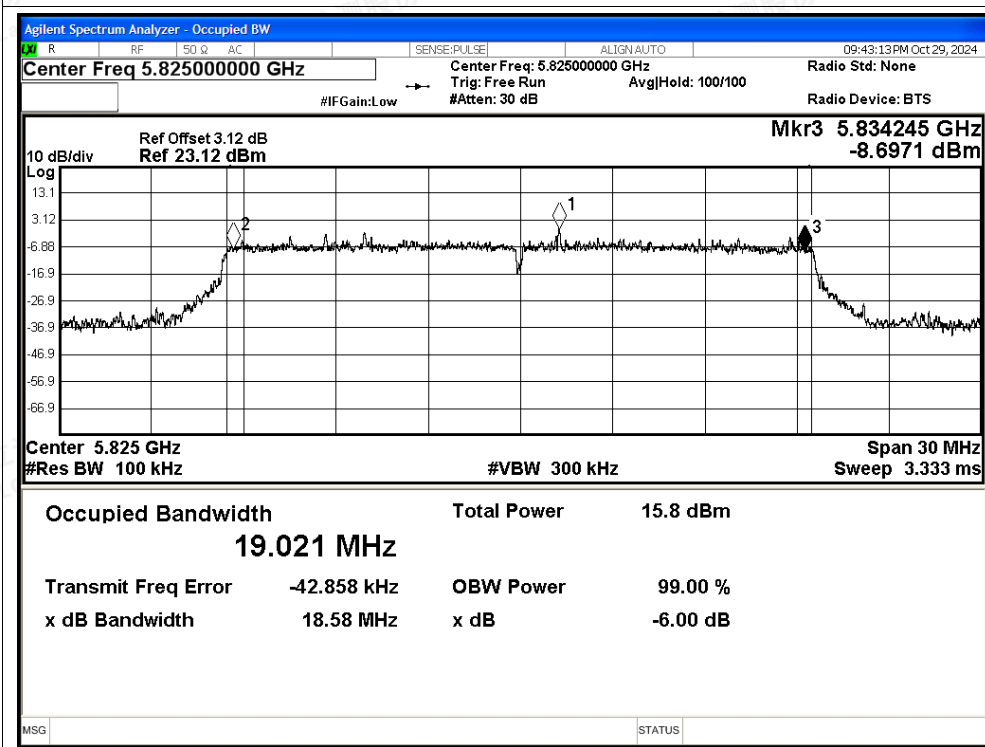
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-6dB Bandwidth NVNT ax20 5785MHz Ant1



-6dB Bandwidth NVNT ax20 5825MHz Ant1



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**802.11ax OFDMA-(26 Tone)**

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	5745	Ant1	17.489	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	17.042	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	17.485	≥ 0.5	Pass

802.11ax OFDMA-(52 Tone)

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	5745	Ant1	17.433	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	16.915	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	17.491	≥ 0.5	Pass

802.11ax OFDMA-(106 Tone)

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	5745	Ant1	17.501	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	16.934	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	17.508	≥ 0.5	Pass

802.11ax OFDMA-(242 Tone)

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ax20	5745	Ant1	17.507	≥ 0.5	Pass
NVNT	ax20	5785	Ant1	17.012	≥ 0.5	Pass
NVNT	ax20	5825	Ant1	17.393	≥ 0.5	Pass





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	5745	Ant1	10.61	2.41	13.02	30	Pass
NVNT	a	5785	Ant1	9.39	2.4	11.79	30	Pass
NVNT	a	5825	Ant1	8.37	2.41	10.78	30	Pass
NVNT	n20	5745	Ant1	9.61	2.74	12.35	30	Pass
NVNT	n20	5785	Ant1	8.49	2.75	11.24	30	Pass
NVNT	n20	5825	Ant1	6.62	2.75	9.37	30	Pass
NVNT	ac20	5745	Ant1	9.8	2.74	12.54	30	Pass
NVNT	ac20	5785	Ant1	8.23	2.75	10.98	30	Pass
NVNT	ac20	5825	Ant1	6.86	2.74	9.6	30	Pass
NVNT	ax20	5745	Ant1	10.23	3.1	13.33	30	Pass
NVNT	ax20	5785	Ant1	8.4	3.11	11.51	30	Pass
NVNT	ax20	5825	Ant1	6.93	3.1	10.03	30	Pass

802.11ax OFDMA-(26 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	9.07	3.1	12.17	30	Pass
NVNT	ax20	5785	Ant1	7.30	3.11	10.41	30	Pass
NVNT	ax20	5825	Ant1	5.86	3.1	8.96	30	Pass

802.11ax OFDMA-(52 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	9.12	3.1	12.22	30	Pass
NVNT	ax20	5785	Ant1	7.25	3.11	10.36	30	Pass
NVNT	ax20	5825	Ant1	5.82	3.1	8.92	30	Pass

802.11ax OFDMA-(106 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	9.14	3.1	12.24	30	Pass
NVNT	ax20	5785	Ant1	7.27	3.11	10.38	30	Pass
NVNT	ax20	5825	Ant1	5.81	3.1	8.91	30	Pass

802.11ax OFDMA-(242 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
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NVNT	ax20	5745	Ant1	9.04	3.1	12.14	30	Pass
NVNT	ax20	5785	Ant1	7.28	3.11	10.39	30	Pass
NVNT	ax20	5825	Ant1	5.87	3.1	8.97	30	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	5745	Ant1	-2.75	2.41	-0.34	30	Pass
NVNT	a	5785	Ant1	-4.05	2.4	-1.65	30	Pass
NVNT	a	5825	Ant1	-5.29	2.41	-2.88	30	Pass
NVNT	n20	5745	Ant1	-3.78	2.74	-1.04	30	Pass
NVNT	n20	5785	Ant1	-4.81	2.75	-2.06	30	Pass
NVNT	n20	5825	Ant1	-6.92	2.75	-4.17	30	Pass
NVNT	ac20	5745	Ant1	-3.8	2.74	-1.06	30	Pass
NVNT	ac20	5785	Ant1	-5.3	2.75	-2.55	30	Pass
NVNT	ac20	5825	Ant1	-6.25	2.74	-3.51	30	Pass
NVNT	ax20	5745	Ant1	-3.85	3.1	-0.75	30	Pass
NVNT	ax20	5785	Ant1	-5.63	3.11	-2.52	30	Pass
NVNT	ax20	5825	Ant1	-6.3	3.1	-3.2	30	Pass



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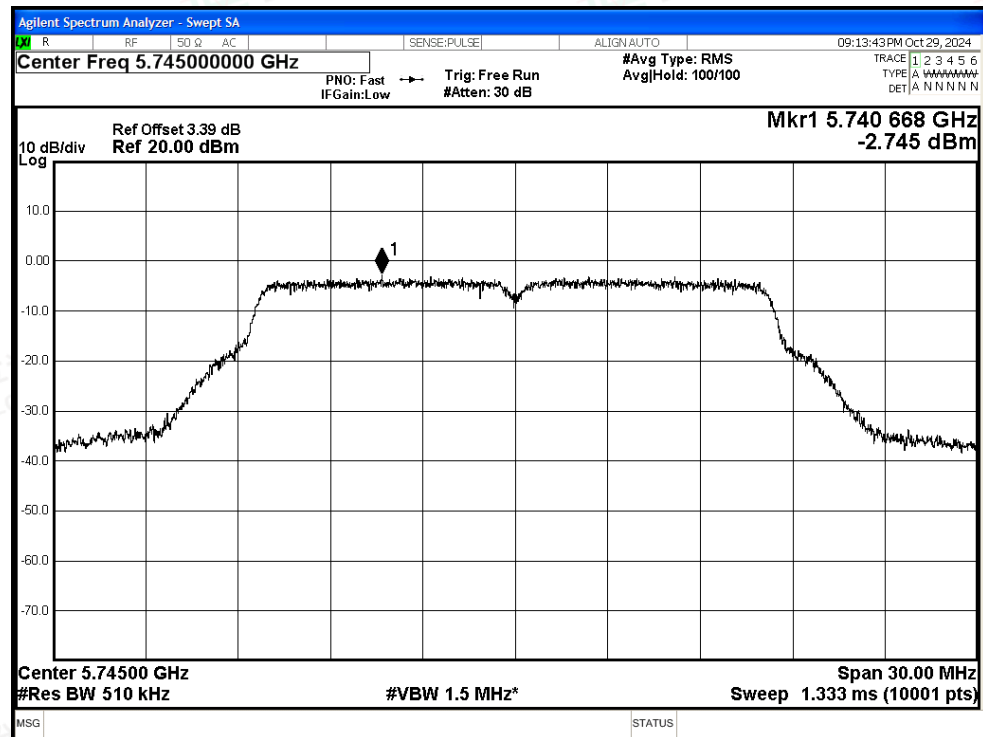
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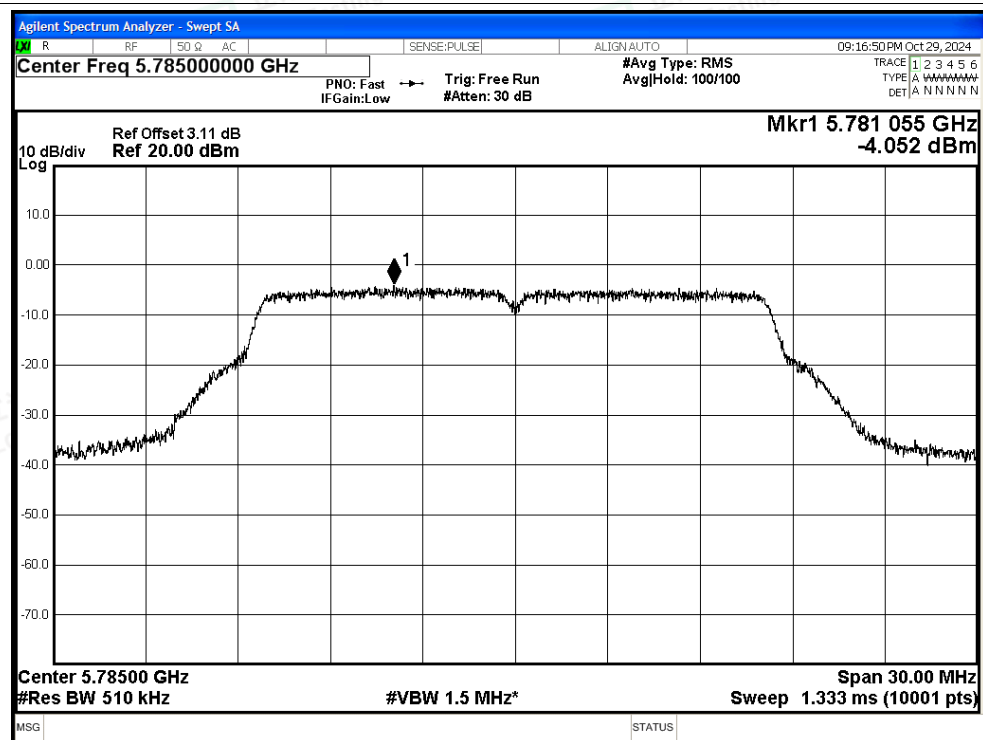


Test Graphs

PSD NVNT a 5745MHz Ant1

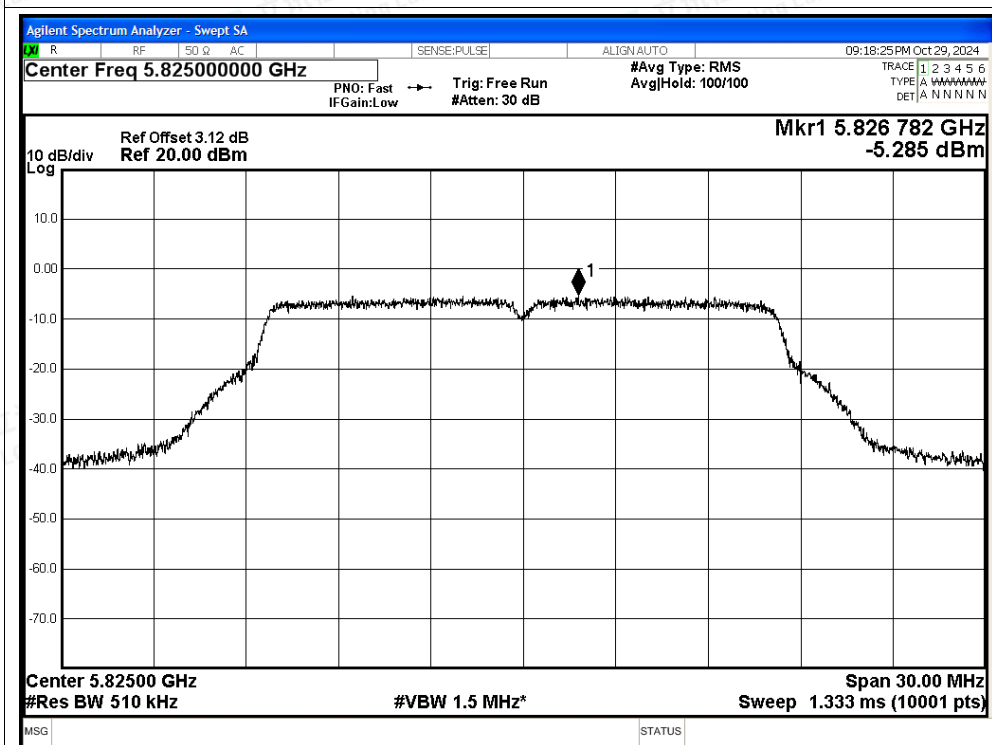


PSD NVNT a 5785MHz Ant1

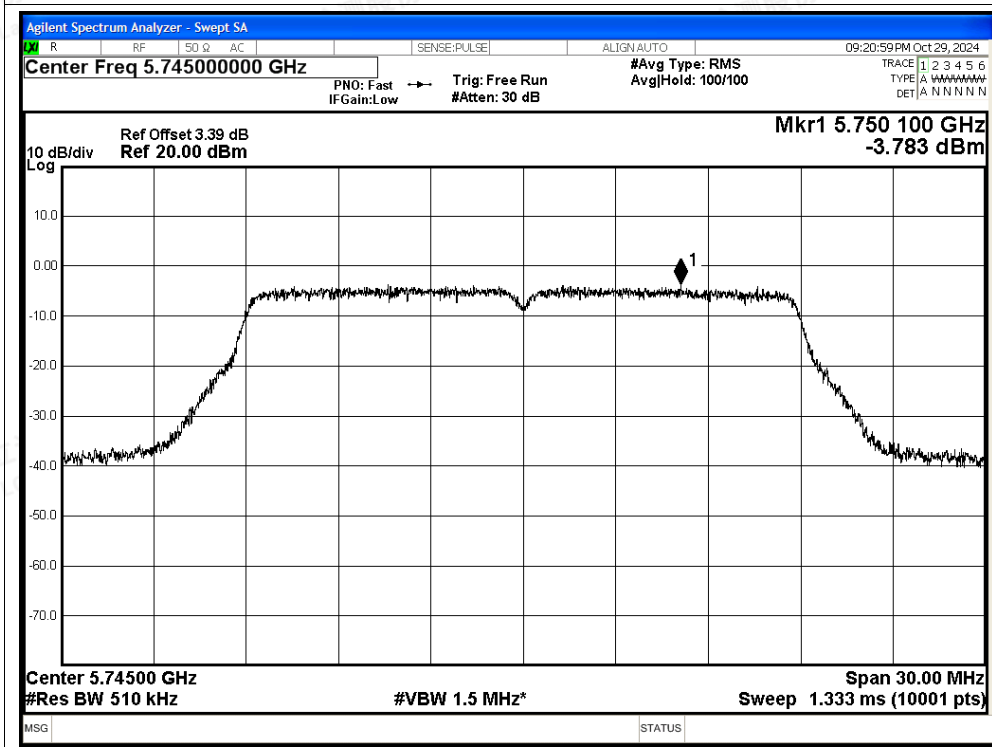


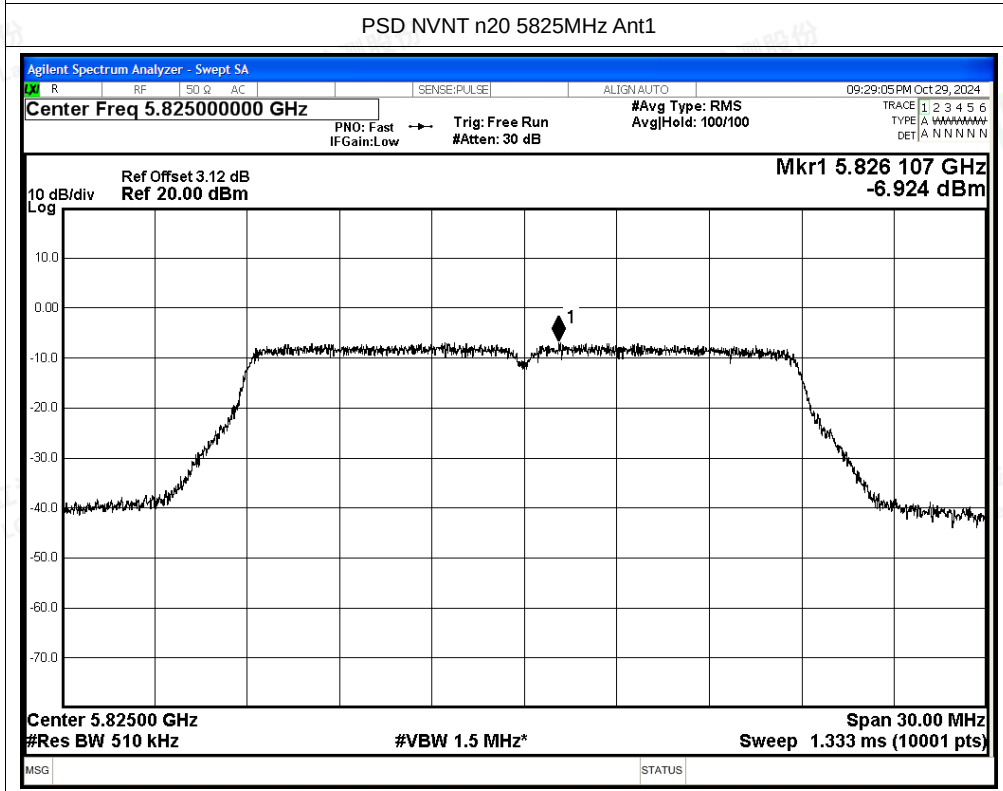
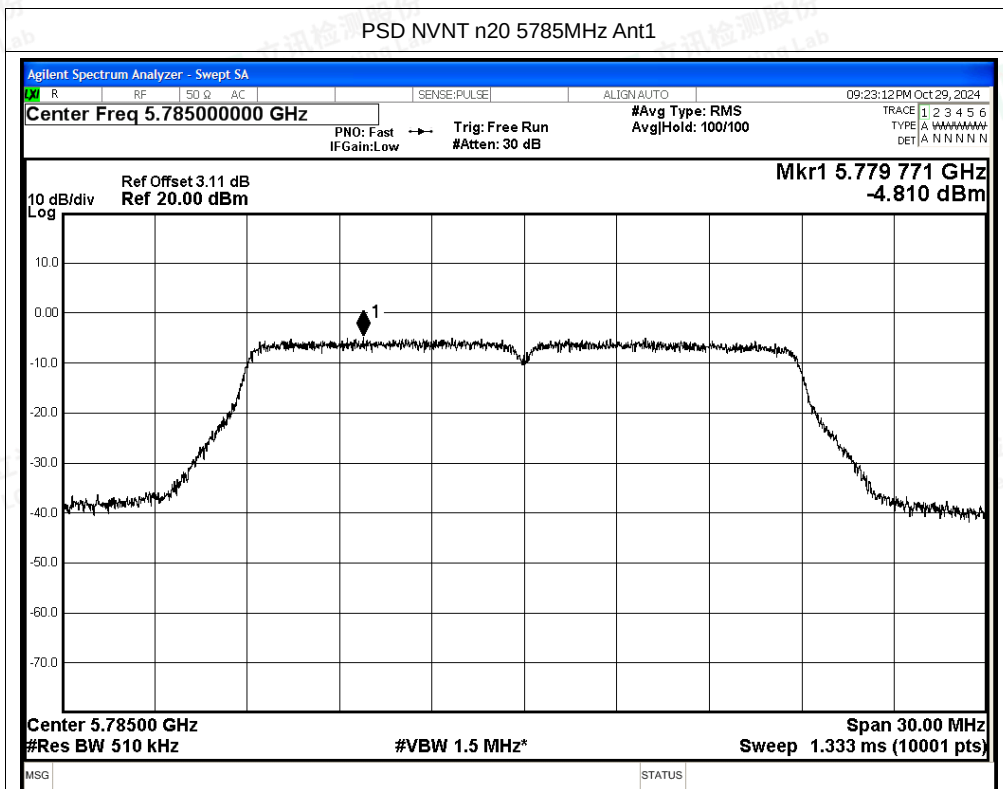


PSD NVNT a 5825MHz Ant1



PSD NVNT n20 5745MHz Ant1



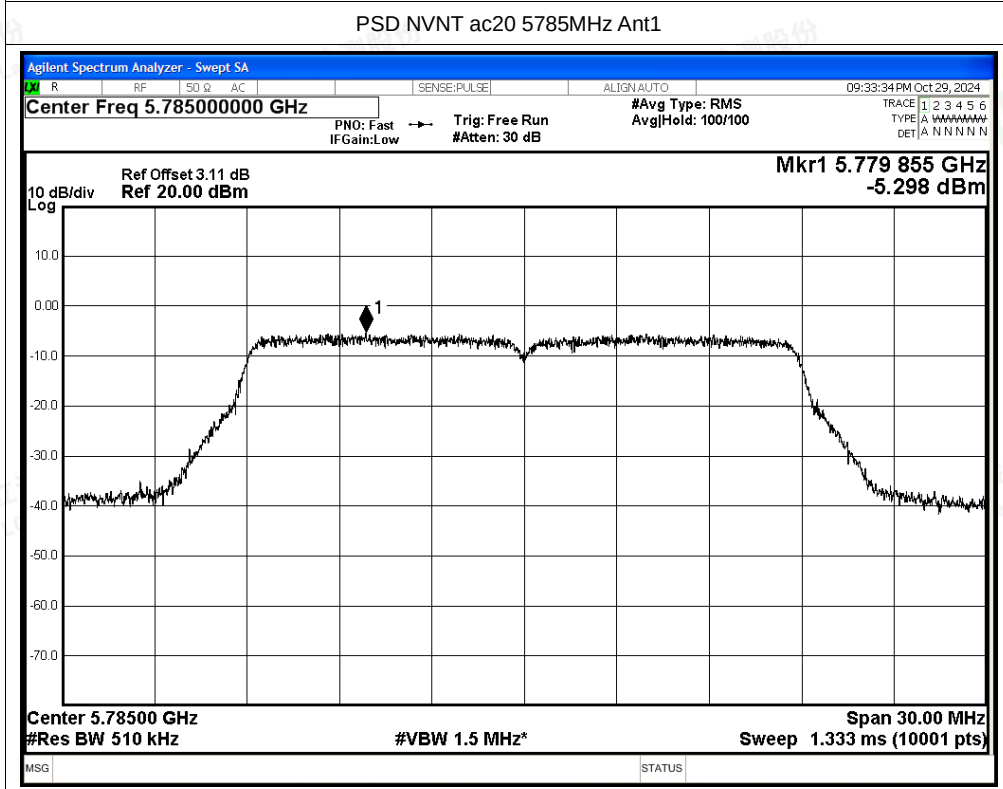
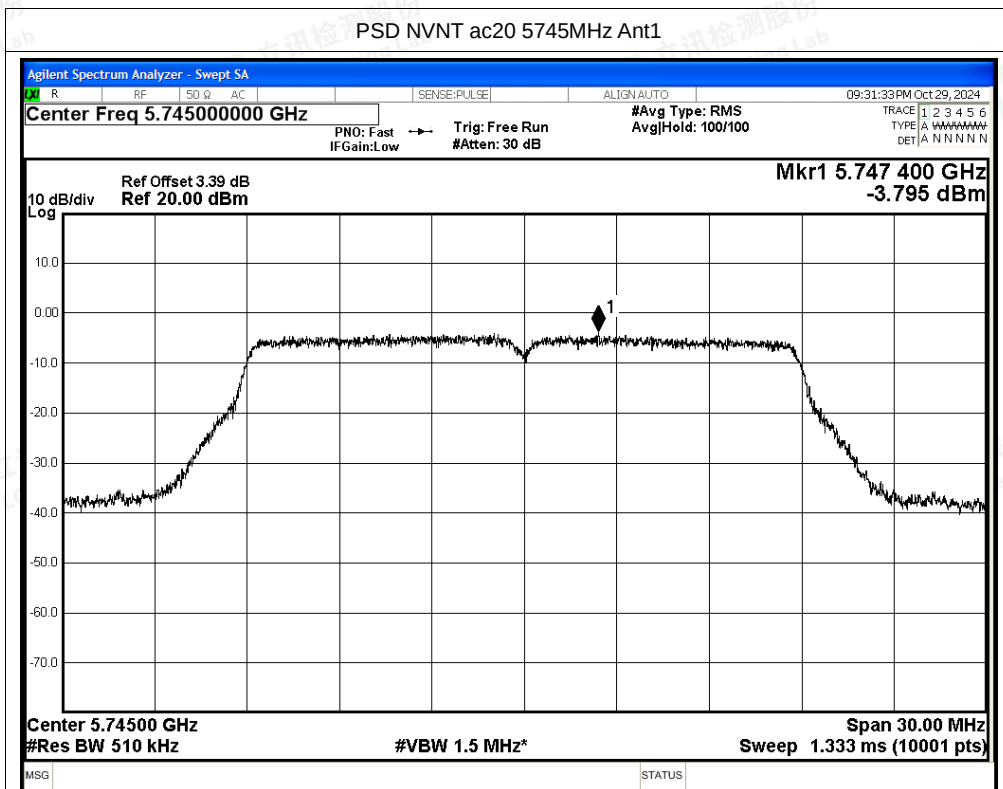


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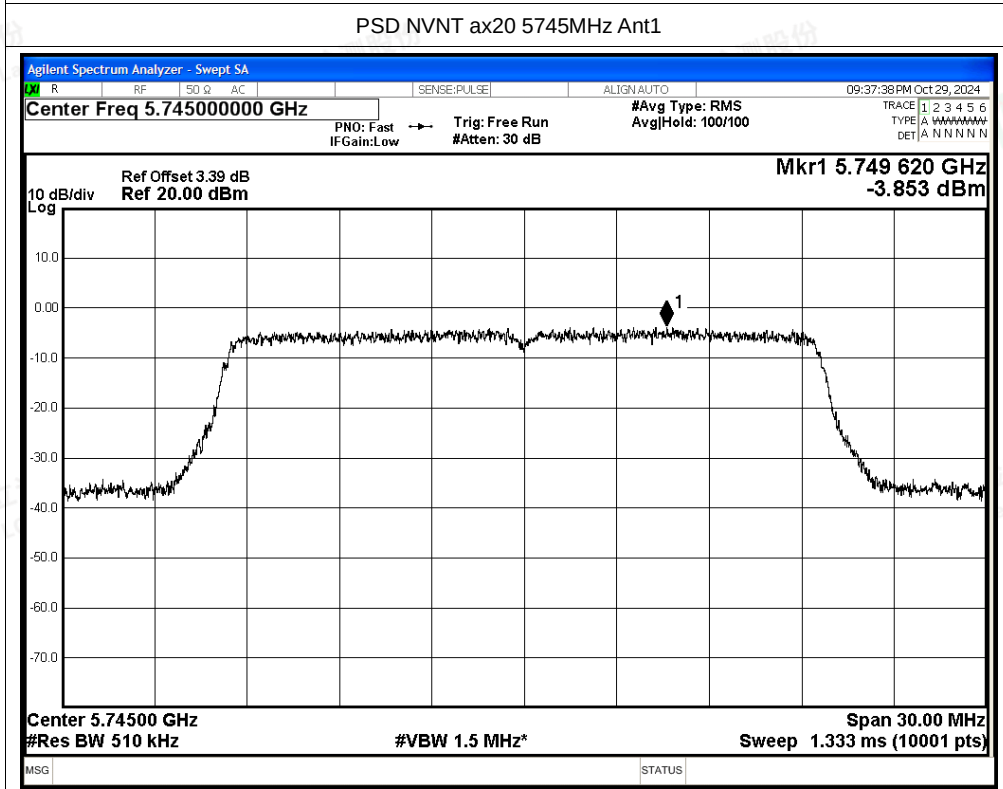
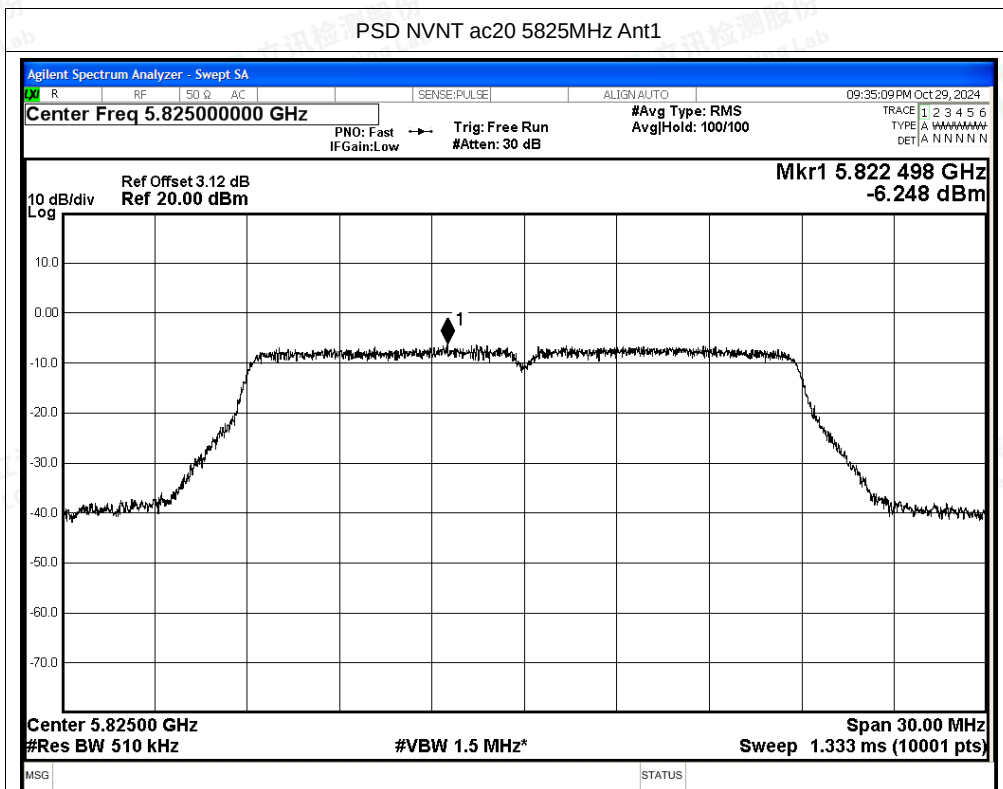


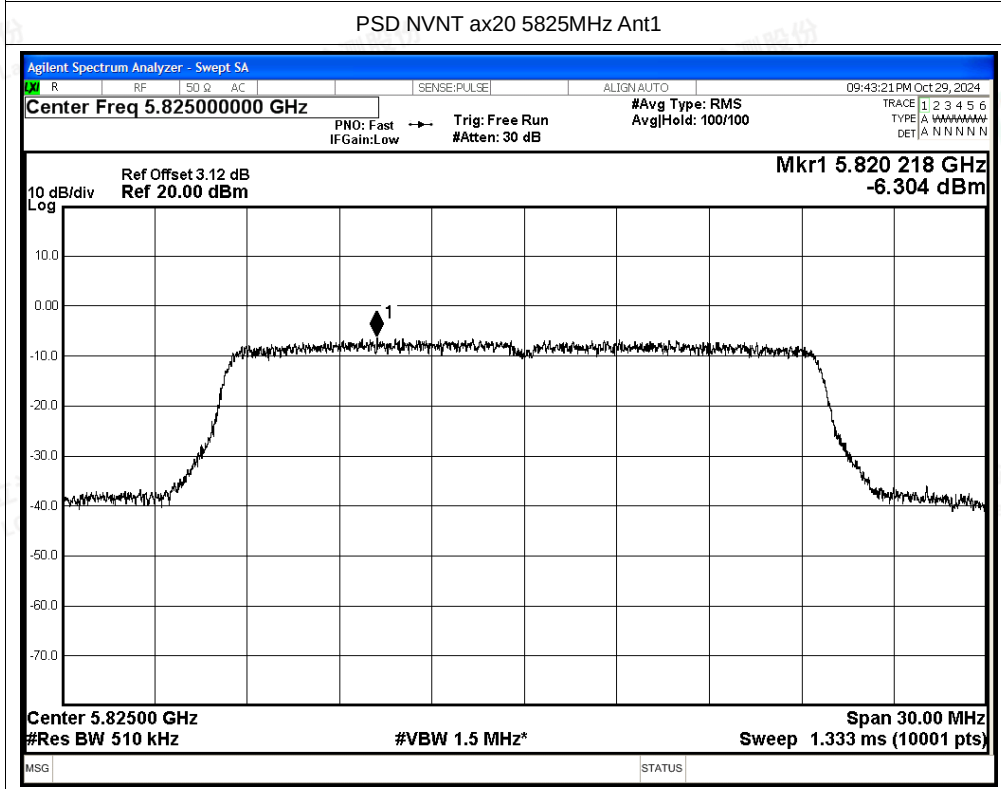
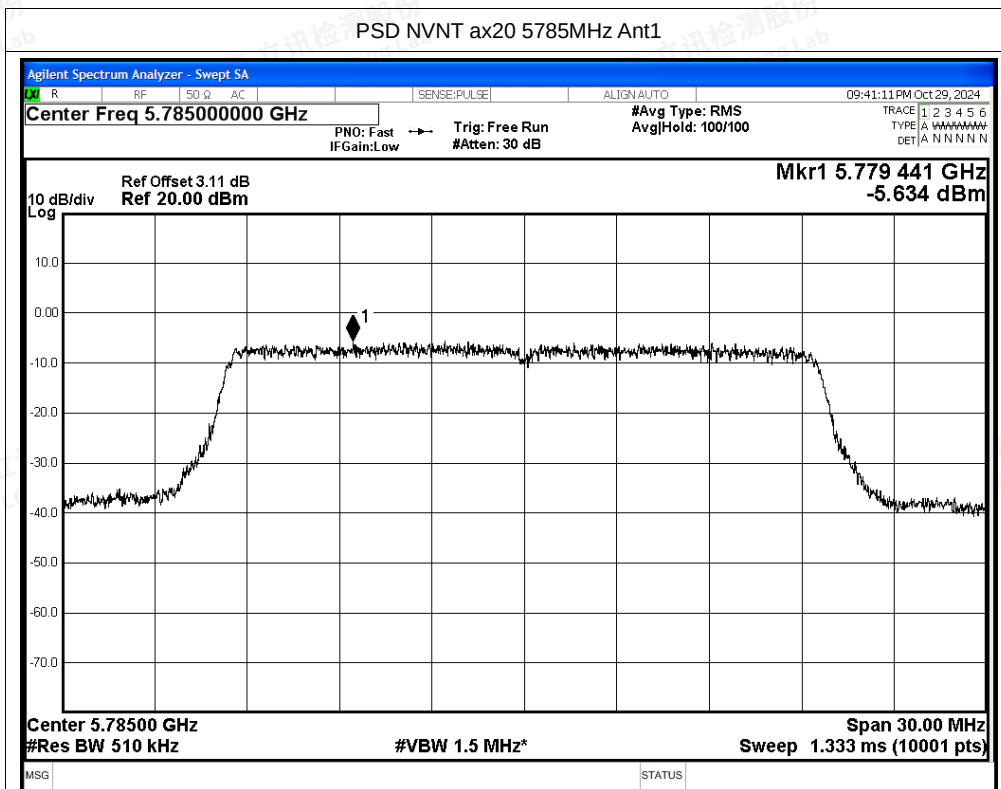
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**802.11ax OFDMA-(26 Tone)**

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	-4.94	3.1	-1.84	30	Pass
NVNT	ax20	5785	Ant1	-6.76	3.11	-3.65	30	Pass
NVNT	ax20	5825	Ant1	-7.40	3.1	-4.3	30	Pass

802.11ax OFDMA-(52 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	-5.01	3.1	-1.91	30	Pass
NVNT	ax20	5785	Ant1	-6.77	3.11	-3.66	30	Pass
NVNT	ax20	5825	Ant1	-7.43	3.1	-4.33	30	Pass

802.11ax OFDMA-(106 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	-4.96	3.1	-1.86	30	Pass
NVNT	ax20	5785	Ant1	-6.72	3.11	-3.61	30	Pass
NVNT	ax20	5825	Ant1	-7.40	3.1	-4.3	30	Pass

802.11ax OFDMA-(242 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	-4.95	3.1	-1.85	30	Pass
NVNT	ax20	5785	Ant1	-6.78	3.11	-3.67	30	Pass
NVNT	ax20	5825	Ant1	-7.42	3.1	-4.32	30	Pass





D.4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	5650	-48.89	2.9	-	-45.99	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-57.49	2.9	2.41	-52.18	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-45.68	2.9	-	-42.78	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-55.04	2.9	2.41	-49.73	Average	10	Pass
NVNT	a	5745	Ant1	5720	-33.1	2.9	-	-30.2	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-46.25	2.9	2.41	-40.94	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-28.25	2.9	-	-25.35	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-38.27	2.9	2.41	-32.96	Average	27	Pass
NVNT	a	5825	Ant1	5850	-38.1	2.9	-	-35.2	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-48.6	2.9	2.41	-43.29	Average	27	Pass
NVNT	a	5825	Ant1	5855	-40.61	2.9	-	-37.71	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-52.65	2.9	2.41	-47.34	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-48.53	2.9	-	-45.63	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-56.93	2.9	2.41	-51.62	Average	10	Pass
NVNT	a	5825	Ant1	5925	-49.14	2.9	-	-46.24	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-57.52	2.9	2.41	-52.21	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-49.98	2.9	-	-47.08	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.63	2.9	2.74	-51.99	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-46.78	2.9	-	-43.88	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-55.02	2.9	2.74	-49.38	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-32.57	2.9	-	-29.67	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-45.89	2.9	2.74	-40.25	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-25.8	2.9	-	-22.9	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-39.04	2.9	2.74	-33.4	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-36.02	2.9	-	-33.12	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-49.14	2.9	2.75	-43.49	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-42.77	2.9	-	-39.87	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-53.67	2.9	2.75	-48.02	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-48.25	2.9	-	-45.35	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-57.49	2.9	2.75	-51.84	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-50.73	2.9	-	-47.83	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-57.27	2.9	2.75	-51.62	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-50.37	2.9	-	-47.47	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-57.21	2.9	2.74	-51.57	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-45.85	2.9	-	-42.95	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-54.56	2.9	2.74	-48.92	Average	10	Pass





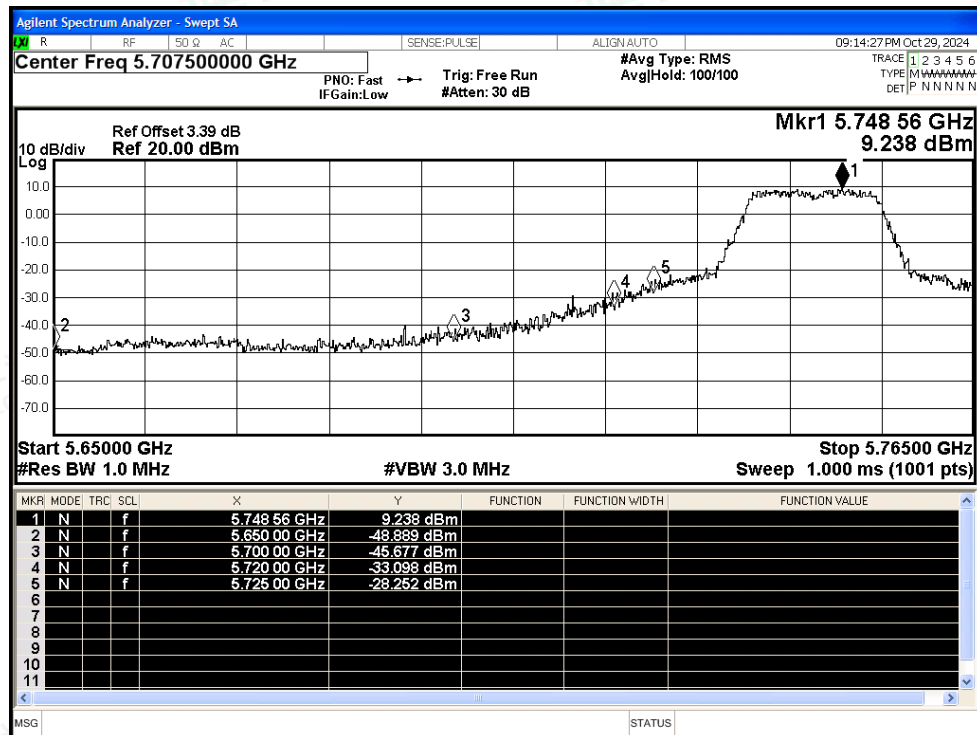
NVNT	ac20	5745	Ant1	5720	-32.07	2.9	-	-29.17	Peak	15.6	Pass
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NVNT	ac20	5745	Ant1	5725	-27.85	2.9	-	-24.95	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-39.25	2.9	2.74	-33.61	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-36.59	2.9	-	-33.69	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-49.05	2.9	2.74	-43.41	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-42.61	2.9	-	-39.71	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-54.25	2.9	2.74	-48.61	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-49.27	2.9	-	-46.37	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-57.06	2.9	2.74	-51.42	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-49.67	2.9	-	-46.77	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-57.98	2.9	2.74	-52.34	Average	-27	Pass
NVNT	ax20	5745	Ant1	5650	-48.06	2.9	-	-45.16	Peak	-27	Pass
NVNT	ax20	5745	Ant1	5650	-57.29	2.9	3.1	-51.29	Average	-27	Pass
NVNT	ax20	5745	Ant1	5700	-43.79	2.9	-	-40.89	Peak	10	Pass
NVNT	ax20	5745	Ant1	5700	-54.07	2.9	3.1	-48.07	Average	10	Pass
NVNT	ax20	5745	Ant1	5720	-30.94	2.9	-	-28.04	Peak	15.6	Pass
NVNT	ax20	5745	Ant1	5720	-43.54	2.9	3.1	-37.54	Average	15.6	Pass
NVNT	ax20	5745	Ant1	5725	-26.95	2.9	-	-24.05	Peak	27	Pass
NVNT	ax20	5745	Ant1	5725	-37.59	2.9	3.1	-31.59	Average	27	Pass
NVNT	ax20	5825	Ant1	5850	-33.58	2.9	-	-30.68	Peak	27	Pass
NVNT	ax20	5825	Ant1	5850	-44.91	2.9	3.1	-38.91	Average	27	Pass
NVNT	ax20	5825	Ant1	5855	-41.73	2.9	-	-38.83	Peak	15.6	Pass
NVNT	ax20	5825	Ant1	5855	-52.61	2.9	3.1	-46.61	Average	15.6	Pass
NVNT	ax20	5825	Ant1	5875	-49.37	2.9	-	-46.47	Peak	10	Pass
NVNT	ax20	5825	Ant1	5875	-56.94	2.9	3.1	-50.94	Average	10	Pass
NVNT	ax20	5825	Ant1	5925	-48.32	2.9	-	-45.42	Peak	-27	Pass
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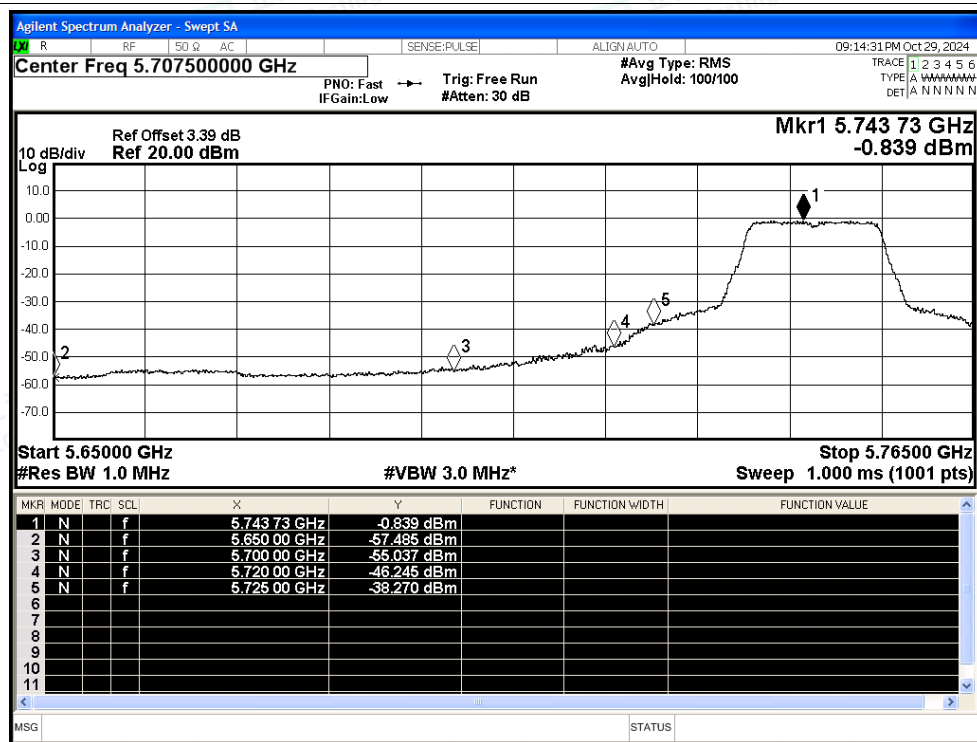


Test Graphs

Restrict Band NVNT a 5745MHz Ant1 Peak



Restrict Band NVNT a 5745MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

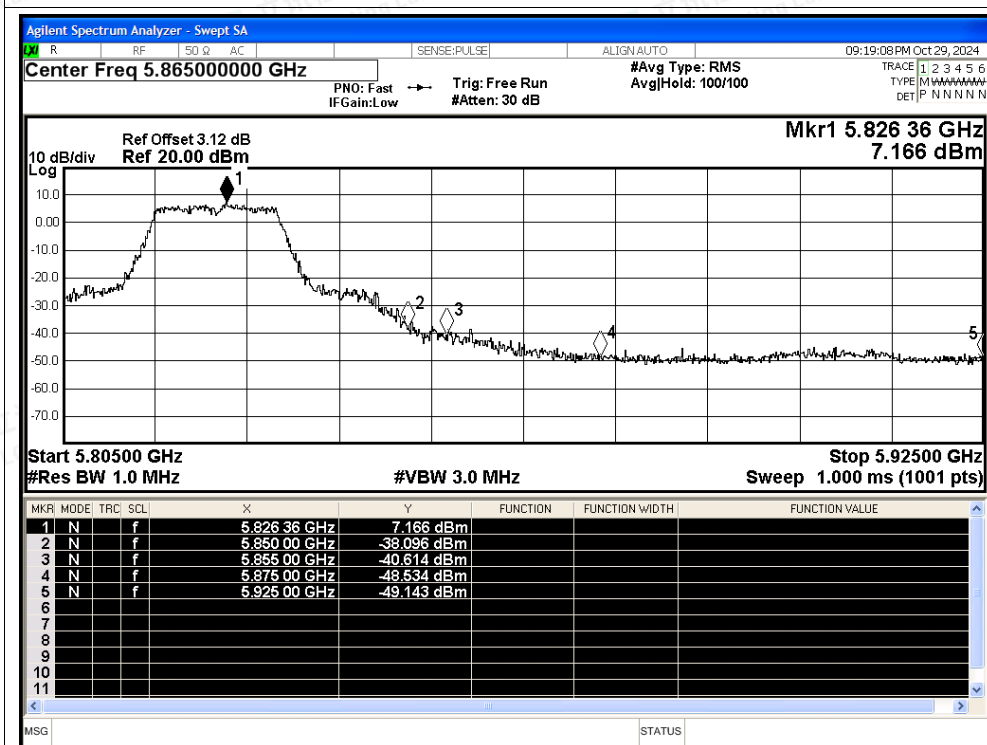
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

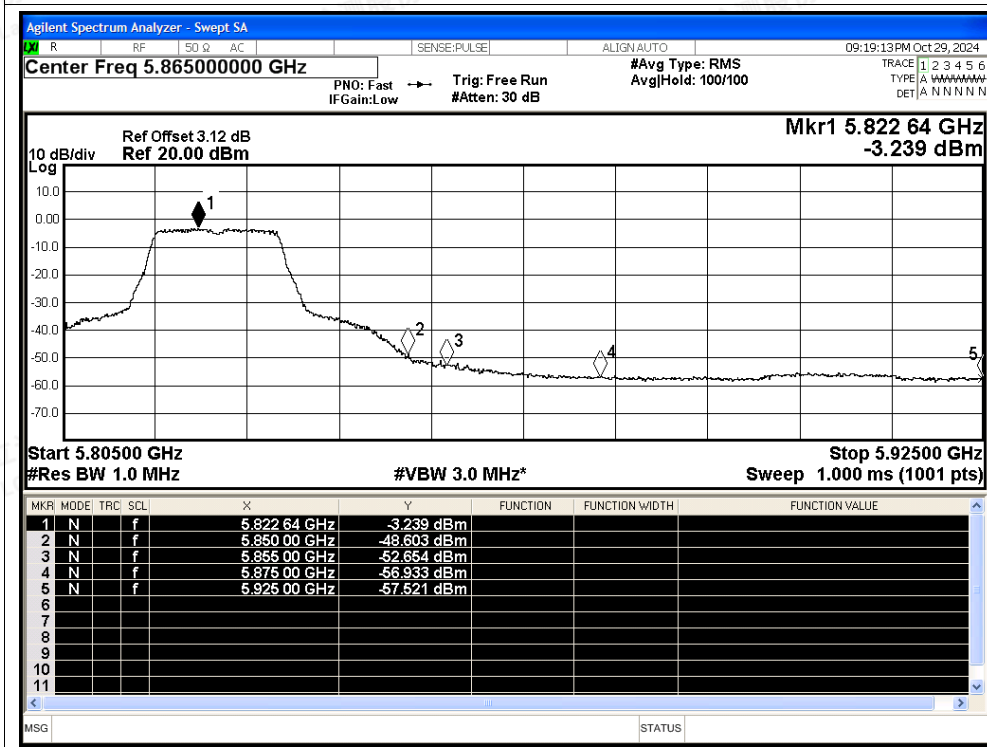
Scan code to check authenticity



Restrict Band NVNT a 5825MHz Ant1 Peak



Restrict Band NVNT a 5825MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

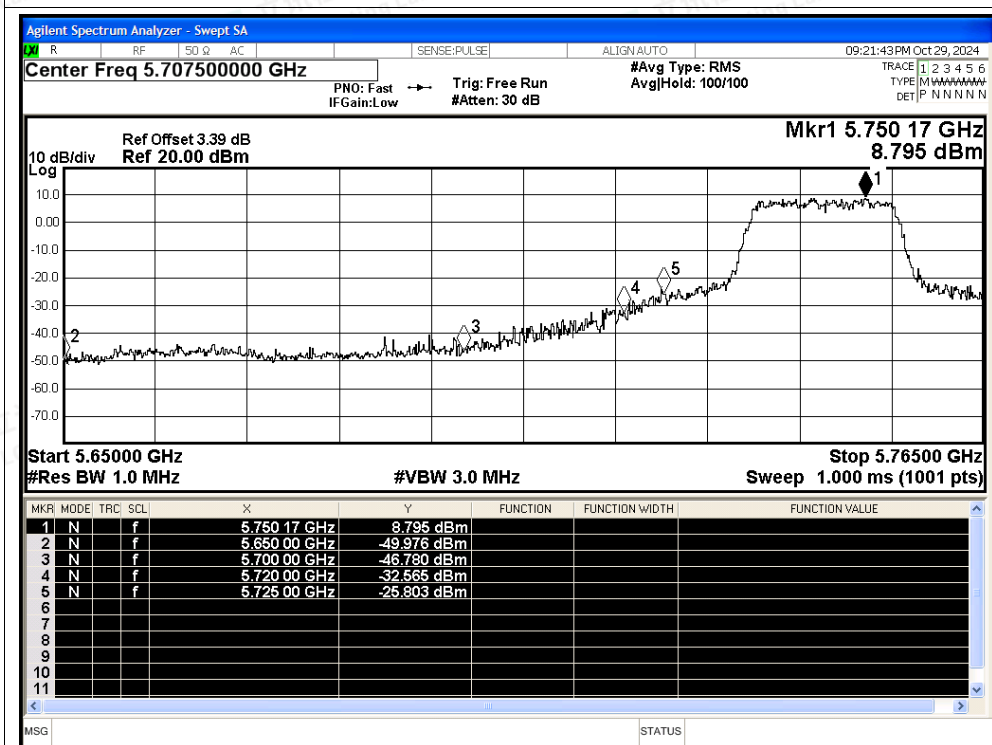
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

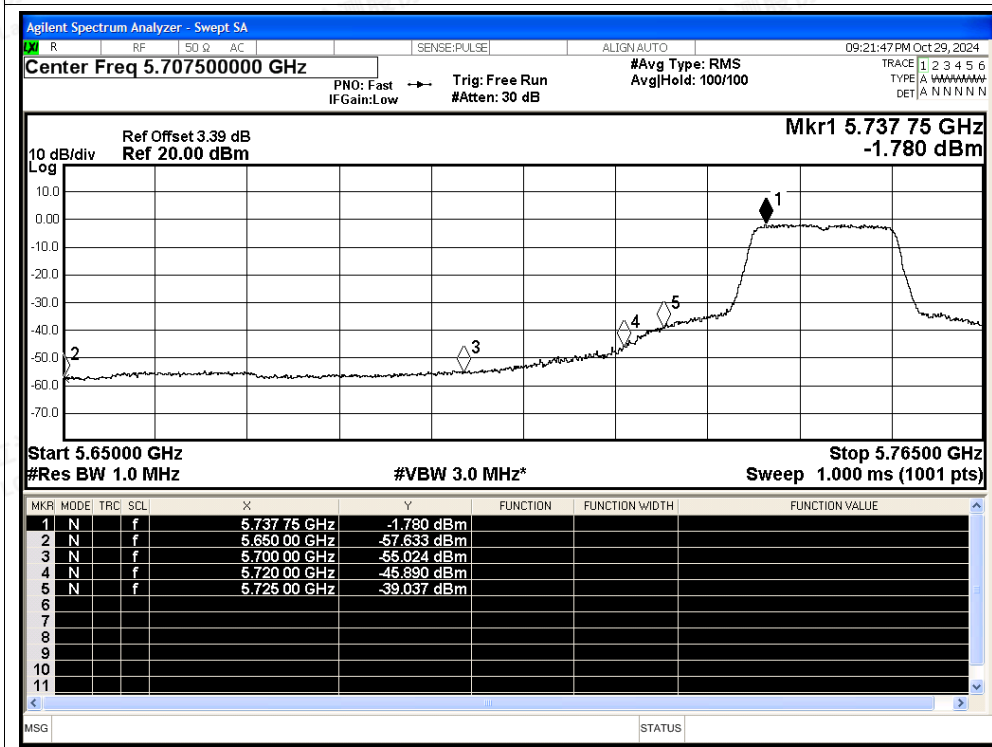
Scan code to check authenticity



Restrict Band NVNT n20 5745MHz Ant1 Peak



Restrict Band NVNT n20 5745MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

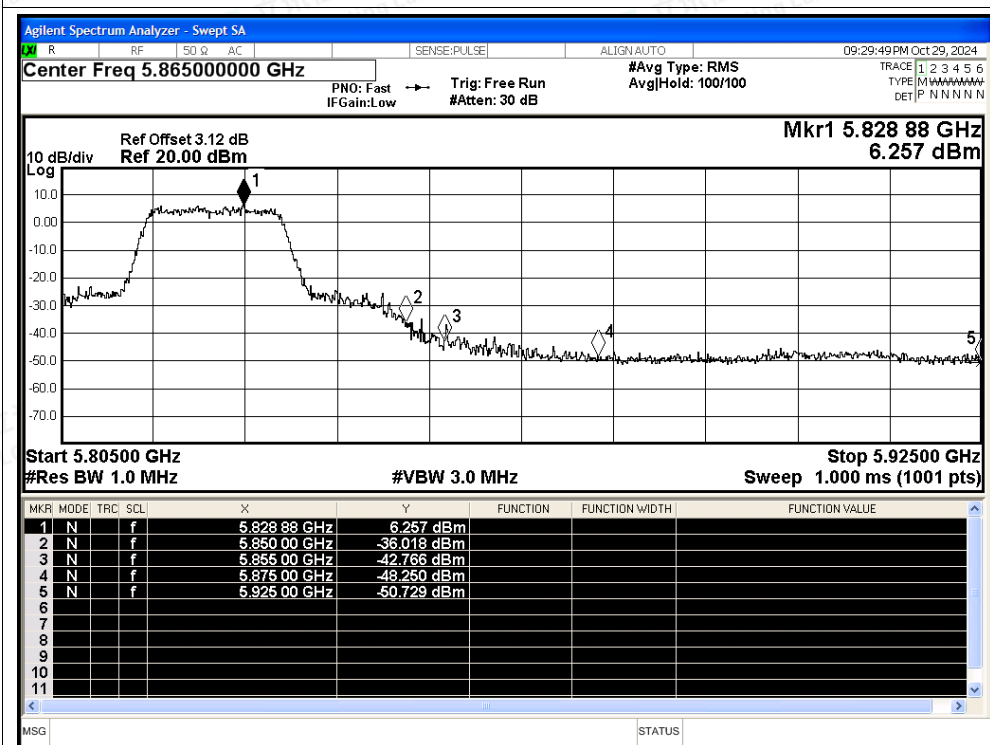
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

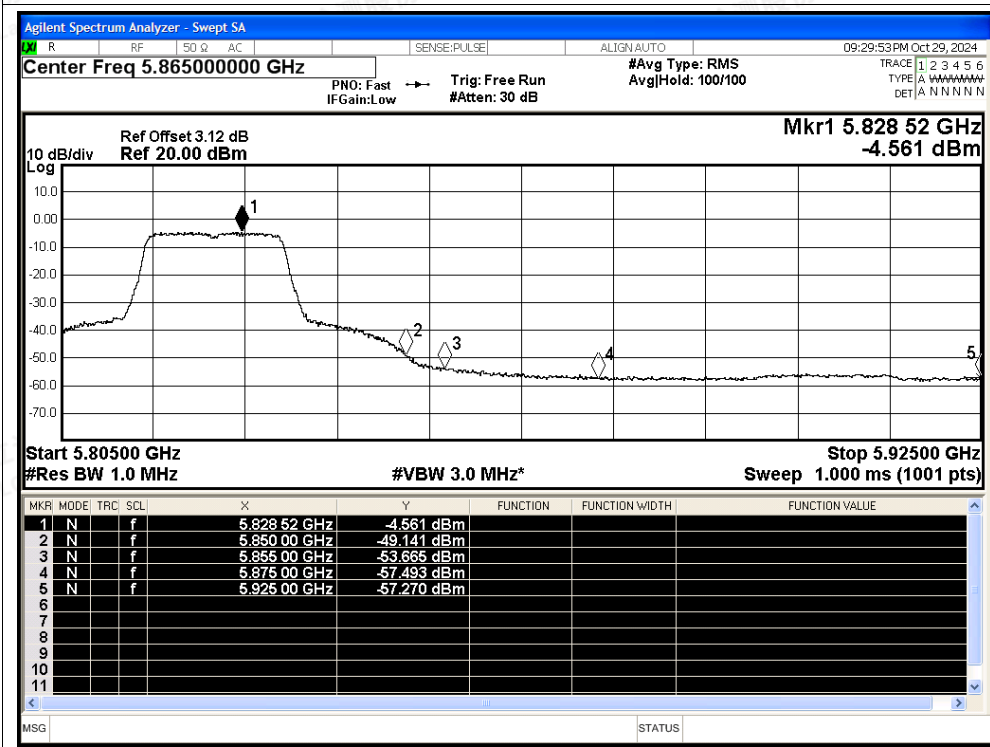
Scan code to check authenticity



Restrict Band NVNT n20 5825MHz Ant1 Peak



Restrict Band NVNT n20 5825MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

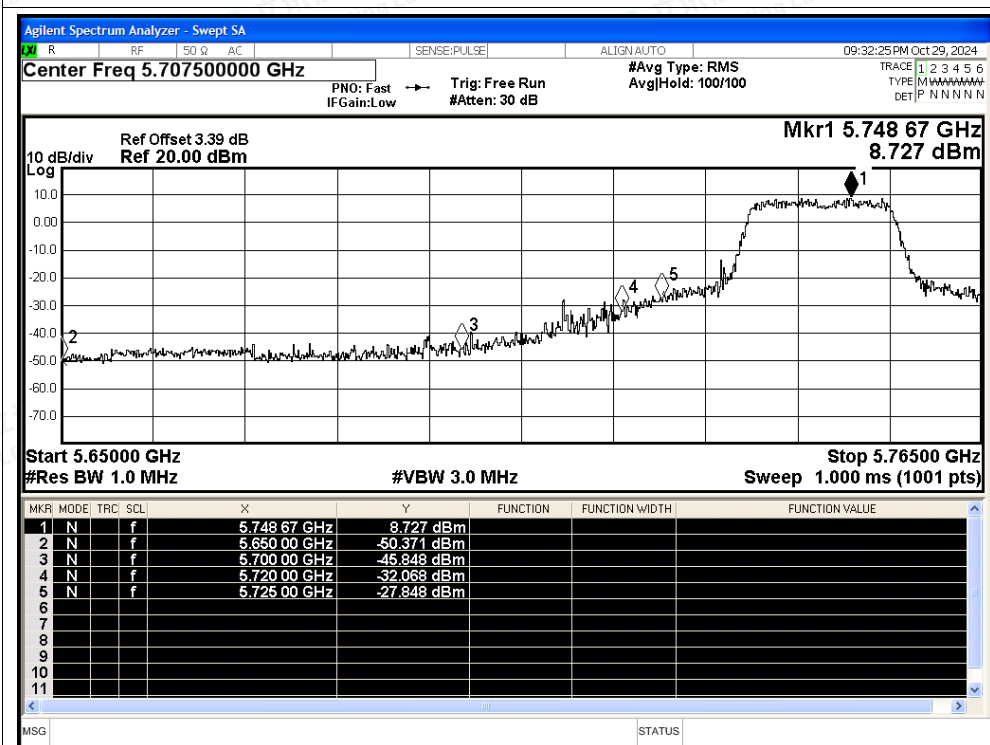
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

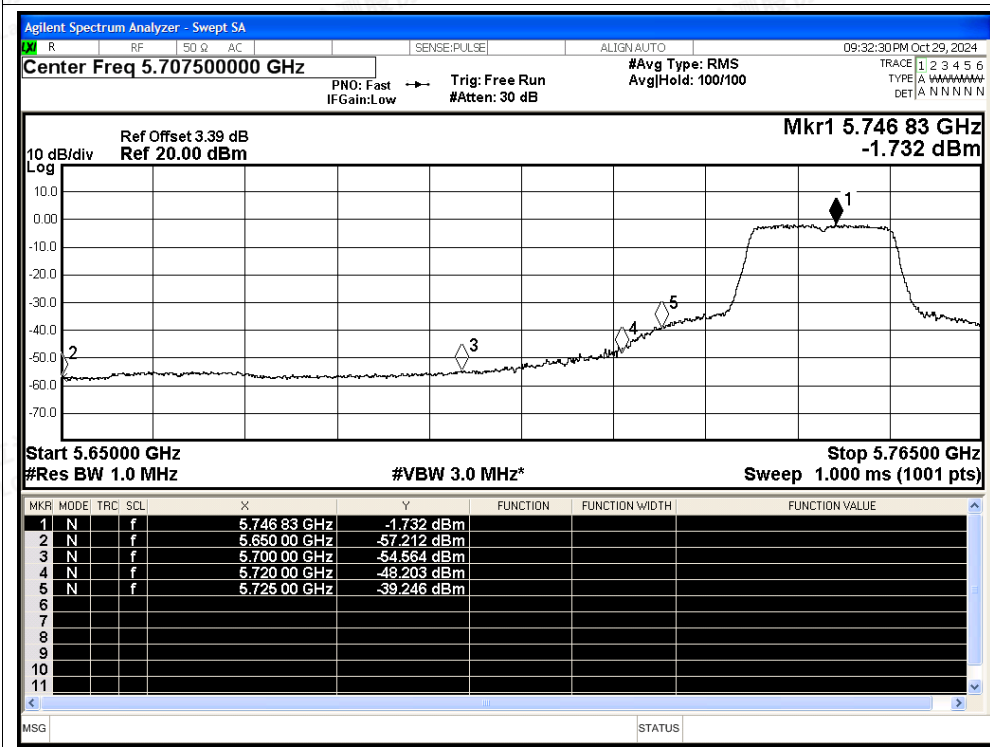
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Restrict Band NVNT ac20 5745MHz Ant1 Peak



Restrict Band NVNT ac20 5745MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

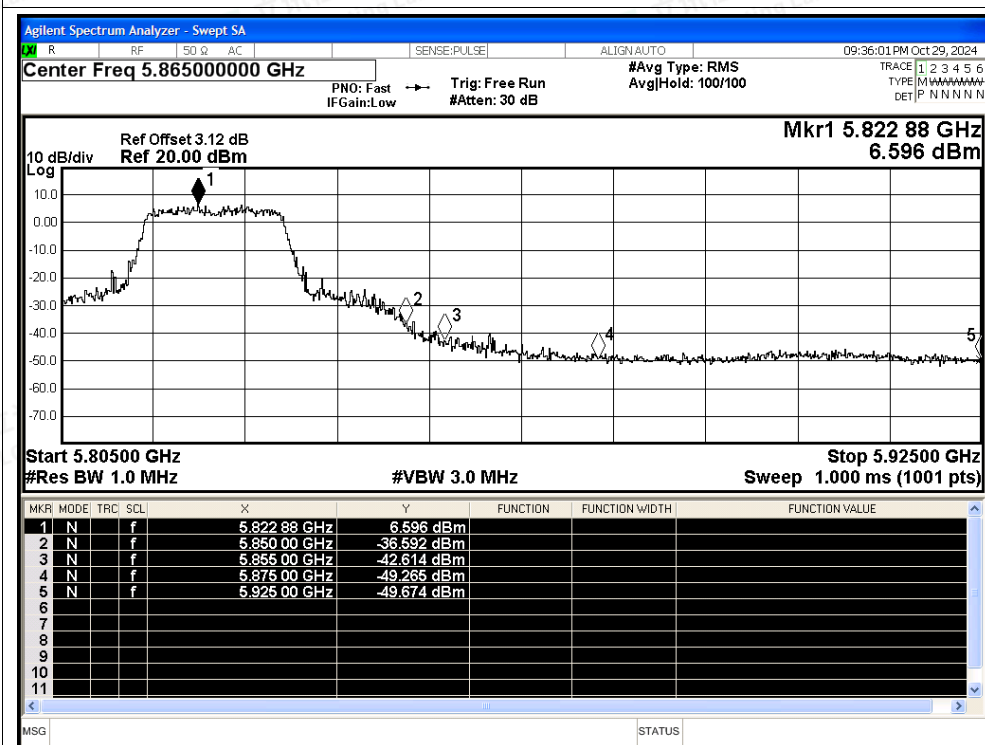
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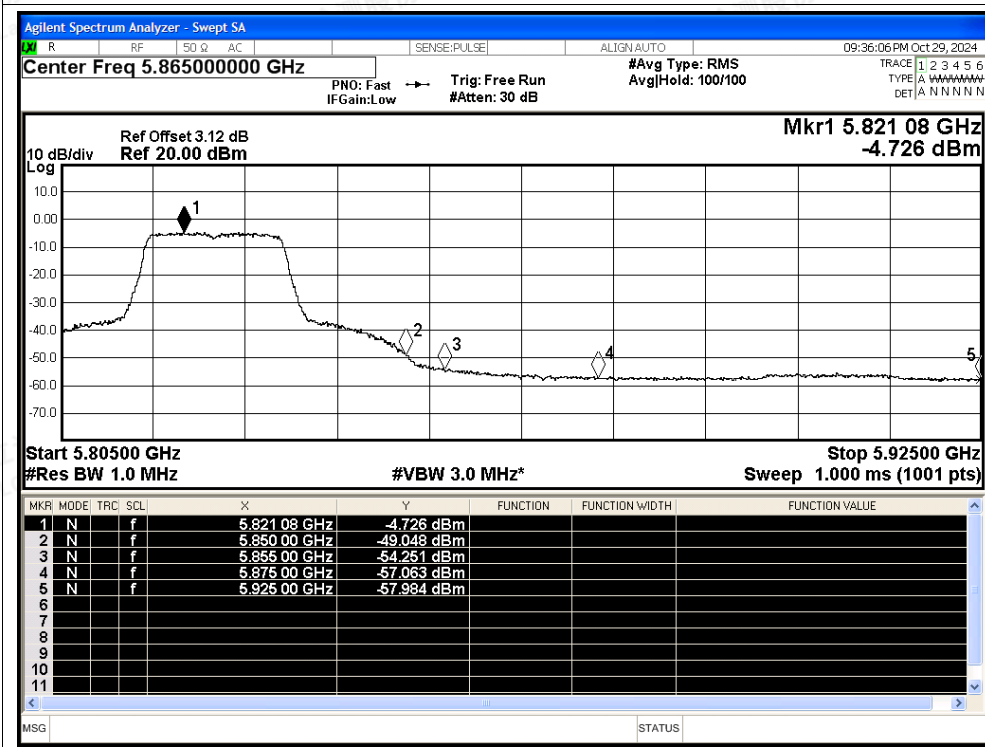
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Restrict Band NVNT ac20 5825MHz Ant1 Peak



Restrict Band NVNT ac20 5825MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

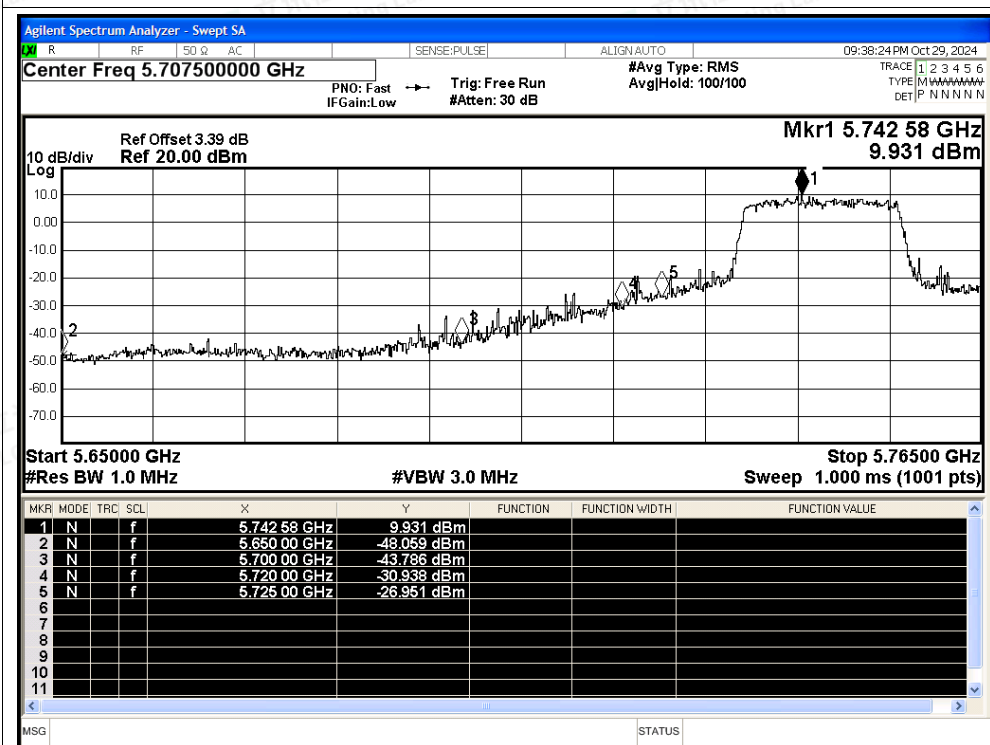
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

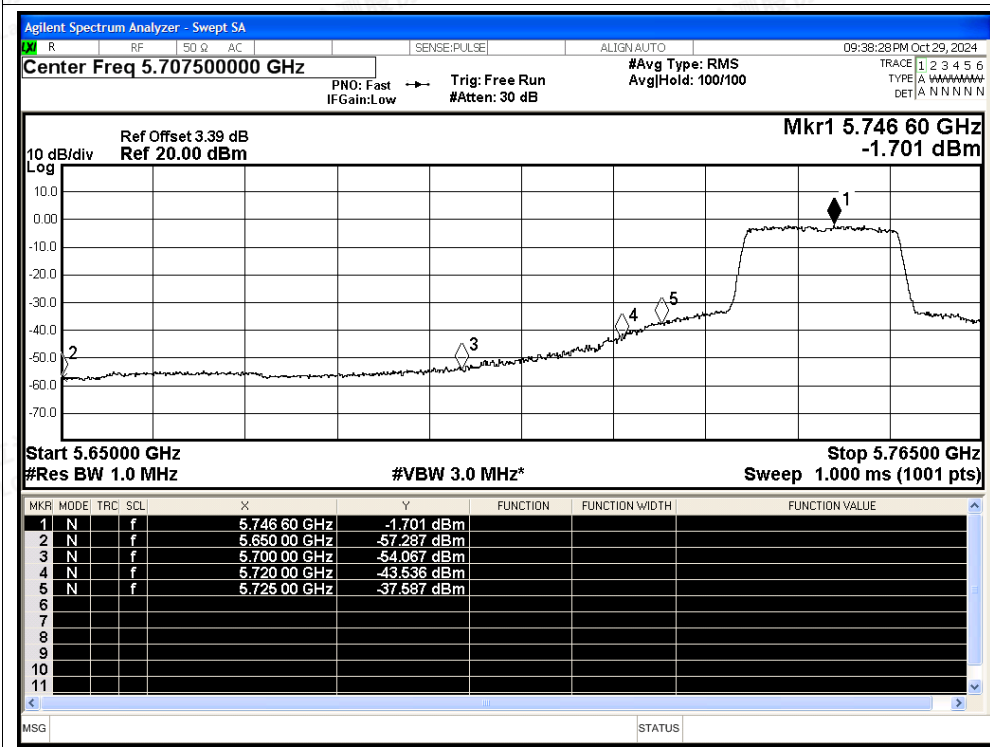
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Restrict Band NVNT ax20 5745MHz Ant1 Peak



Restrict Band NVNT ax20 5745MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

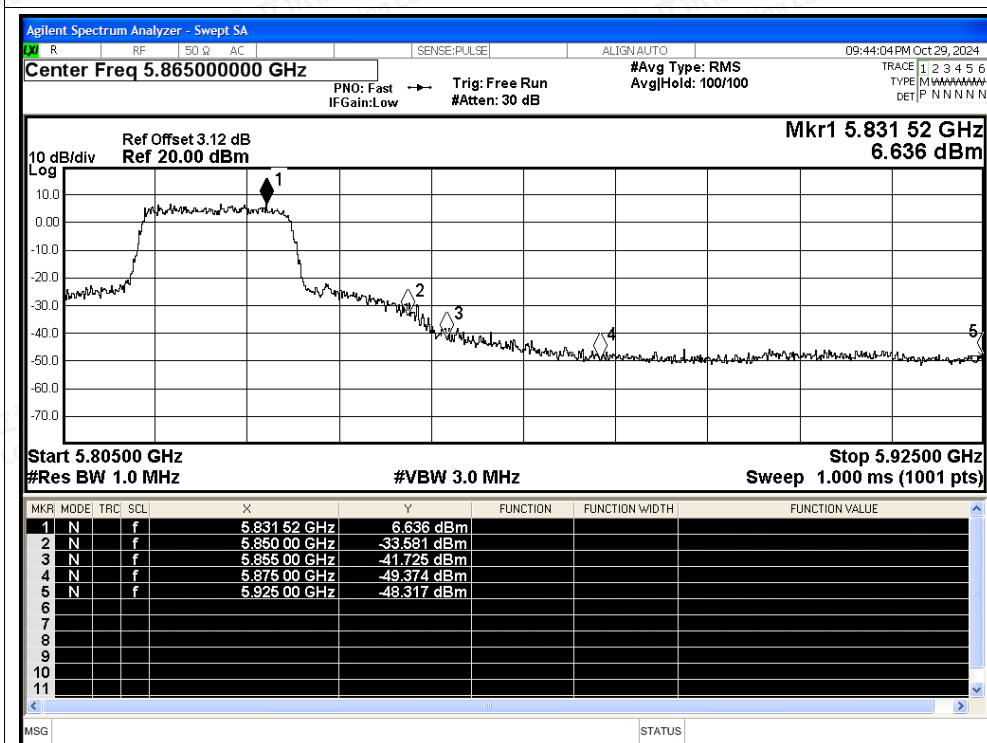
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

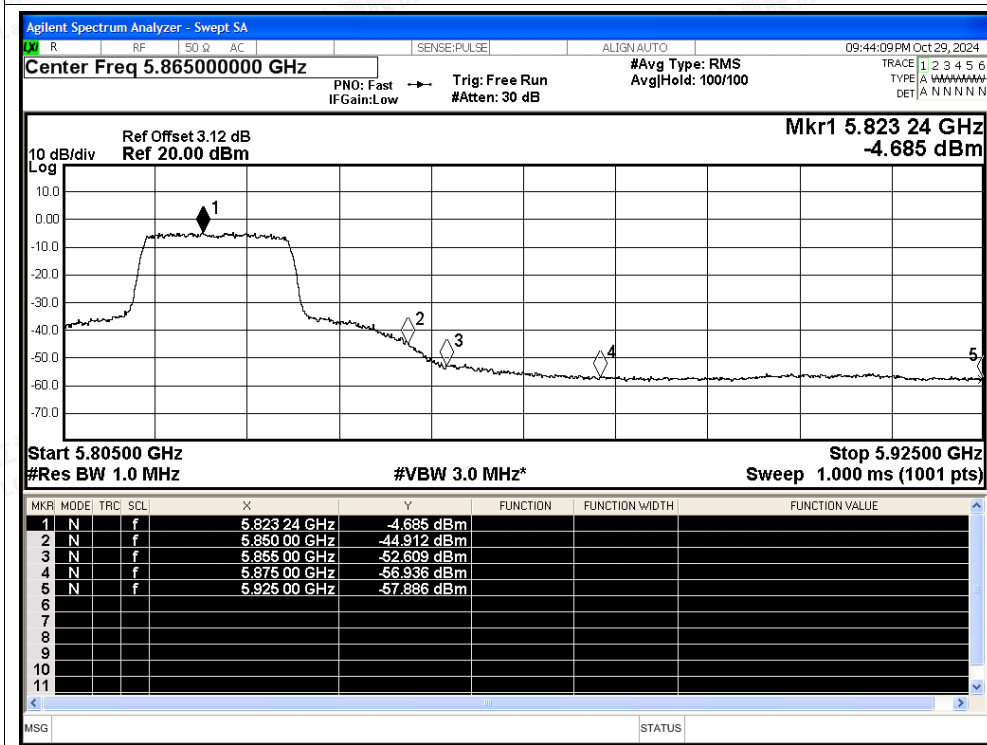
Scan code to check authenticity



Restrict Band NVNT ax20 5825MHz Ant1 Peak



Restrict Band NVNT ax20 5825MHz Ant1 Average



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**802.11ax OFDMA-(26 Tone)**

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	5650	-49.21	2.9	-	-46.31	Peak	-27	Pass
NVNT	ax20	5745	Ant1	5650	-58.43	2.9	3.1	-52.43	Average	-27	Pass
NVNT	ax20	5745	Ant1	5700	-44.92	2.9	-	-42.02	Peak	10	Pass
NVNT	ax20	5745	Ant1	5700	-55.14	2.9	3.1	-49.14	Average	10	Pass
NVNT	ax20	5745	Ant1	5720	-32.01	2.9	-	-29.11	Peak	15.6	Pass
NVNT	ax20	5745	Ant1	5720	-44.67	2.9	3.1	-38.67	Average	15.6	Pass
NVNT	ax20	5745	Ant1	5725	-28.07	2.9	-	-25.17	Peak	27	Pass
NVNT	ax20	5745	Ant1	5725	-38.69	2.9	3.1	-32.69	Average	27	Pass
NVNT	ax20	5825	Ant1	5850	-34.77	2.9	-	-31.87	Peak	27	Pass
NVNT	ax20	5825	Ant1	5850	-45.98	2.9	3.1	-39.98	Average	27	Pass
NVNT	ax20	5825	Ant1	5855	-42.79	2.9	-	-39.89	Peak	15.6	Pass
NVNT	ax20	5825	Ant1	5855	-53.74	2.9	3.1	-47.74	Average	15.6	Pass
NVNT	ax20	5825	Ant1	5875	-50.47	2.9	-	-47.57	Peak	10	Pass
NVNT	ax20	5825	Ant1	5875	-58.08	2.9	3.1	-52.08	Average	10	Pass
NVNT	ax20	5825	Ant1	5925	-49.40	2.9	-	-46.5	Peak	-27	Pass
NVNT	ax20	5825	Ant1	5925	-59.02	2.9	3.1	-53.02	Average	-27	Pass

802.11ax OFDMA-(52 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	5650	-49.22	2.9	-	-46.32	Peak	-27	Pass
NVNT	ax20	5745	Ant1	5650	-58.33	2.9	3.1	-52.33	Average	-27	Pass
NVNT	ax20	5745	Ant1	5700	-44.96	2.9	-	-42.06	Peak	10	Pass
NVNT	ax20	5745	Ant1	5700	-55.15	2.9	3.1	-49.15	Average	10	Pass
NVNT	ax20	5745	Ant1	5720	-31.99	2.9	-	-29.09	Peak	15.6	Pass
NVNT	ax20	5745	Ant1	5720	-44.63	2.9	3.1	-38.63	Average	15.6	Pass
NVNT	ax20	5745	Ant1	5725	-28.07	2.9	-	-25.17	Peak	27	Pass
NVNT	ax20	5745	Ant1	5725	-38.62	2.9	3.1	-32.62	Average	27	Pass
NVNT	ax20	5825	Ant1	5850	-34.71	2.9	-	-31.81	Peak	27	Pass
NVNT	ax20	5825	Ant1	5850	-46.09	2.9	3.1	-40.09	Average	27	Pass
NVNT	ax20	5825	Ant1	5855	-42.75	2.9	-	-39.85	Peak	15.6	Pass
NVNT	ax20	5825	Ant1	5855	-53.67	2.9	3.1	-47.67	Average	15.6	Pass
NVNT	ax20	5825	Ant1	5875	-50.44	2.9	-	-47.54	Peak	10	Pass
NVNT	ax20	5825	Ant1	5875	-58.06	2.9	3.1	-52.06	Average	10	Pass
NVNT	ax20	5825	Ant1	5925	-49.49	2.9	-	-46.59	Peak	-27	Pass
NVNT	ax20	5825	Ant1	5925	-58.98	2.9	3.1	-52.98	Average	-27	Pass



**802.11ax OFDMA-(106 Tone)**

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	5650	-49.19	2.9	-	-46.29	Peak	-27	Pass
NVNT	ax20	5745	Ant1	5650	-58.39	2.9	3.1	-52.39	Average	-27	Pass
NVNT	ax20	5745	Ant1	5700	-44.92	2.9	-	-42.02	Peak	10	Pass
NVNT	ax20	5745	Ant1	5700	-55.13	2.9	3.1	-49.13	Average	10	Pass
NVNT	ax20	5745	Ant1	5720	-31.98	2.9	-	-29.08	Peak	15.6	Pass
NVNT	ax20	5745	Ant1	5720	-44.66	2.9	3.1	-38.66	Average	15.6	Pass
NVNT	ax20	5745	Ant1	5725	-27.98	2.9	-	-25.08	Peak	27	Pass
NVNT	ax20	5745	Ant1	5725	-38.70	2.9	3.1	-32.7	Average	27	Pass
NVNT	ax20	5825	Ant1	5850	-34.69	2.9	-	-31.79	Peak	27	Pass
NVNT	ax20	5825	Ant1	5850	-46.08	2.9	3.1	-40.08	Average	27	Pass
NVNT	ax20	5825	Ant1	5855	-42.82	2.9	-	-39.92	Peak	15.6	Pass
NVNT	ax20	5825	Ant1	5855	-53.78	2.9	3.1	-47.78	Average	15.6	Pass
NVNT	ax20	5825	Ant1	5875	-50.53	2.9	-	-47.63	Peak	10	Pass
NVNT	ax20	5825	Ant1	5875	-58.05	2.9	3.1	-52.05	Average	10	Pass
NVNT	ax20	5825	Ant1	5925	-49.46	2.9	-	-46.56	Peak	-27	Pass
NVNT	ax20	5825	Ant1	5925	-58.99	2.9	3.1	-52.99	Average	-27	Pass

802.11ax OFDMA-(242 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	EIRP Power (dBm)	Detector	Limit (dBm)	Verdict
NVNT	ax20	5745	Ant1	5650	-49.12	2.9	-	-46.22	Peak	-27	Pass
NVNT	ax20	5745	Ant1	5650	-58.45	2.9	3.1	-52.45	Average	-27	Pass
NVNT	ax20	5745	Ant1	5700	-44.88	2.9	-	-41.98	Peak	10	Pass
NVNT	ax20	5745	Ant1	5700	-55.13	2.9	3.1	-49.13	Average	10	Pass
NVNT	ax20	5745	Ant1	5720	-32.05	2.9	-	-29.15	Peak	15.6	Pass
NVNT	ax20	5745	Ant1	5720	-44.65	2.9	3.1	-38.65	Average	15.6	Pass
NVNT	ax20	5745	Ant1	5725	-28.01	2.9	-	-25.11	Peak	27	Pass
NVNT	ax20	5745	Ant1	5725	-38.76	2.9	3.1	-32.76	Average	27	Pass
NVNT	ax20	5825	Ant1	5850	-34.65	2.9	-	-31.75	Peak	27	Pass
NVNT	ax20	5825	Ant1	5850	-46.05	2.9	3.1	-40.05	Average	27	Pass
NVNT	ax20	5825	Ant1	5855	-42.80	2.9	-	-39.9	Peak	15.6	Pass
NVNT	ax20	5825	Ant1	5855	-53.72	2.9	3.1	-47.72	Average	15.6	Pass
NVNT	ax20	5825	Ant1	5875	-50.48	2.9	-	-47.58	Peak	10	Pass
NVNT	ax20	5825	Ant1	5875	-58.10	2.9	3.1	-52.1	Average	10	Pass
NVNT	ax20	5825	Ant1	5925	-49.33	2.9	-	-46.43	Peak	-27	Pass
NVNT	ax20	5825	Ant1	5925	-59.04	2.9	3.1	-53.04	Average	-27	Pass





D.5 Frequency Stability

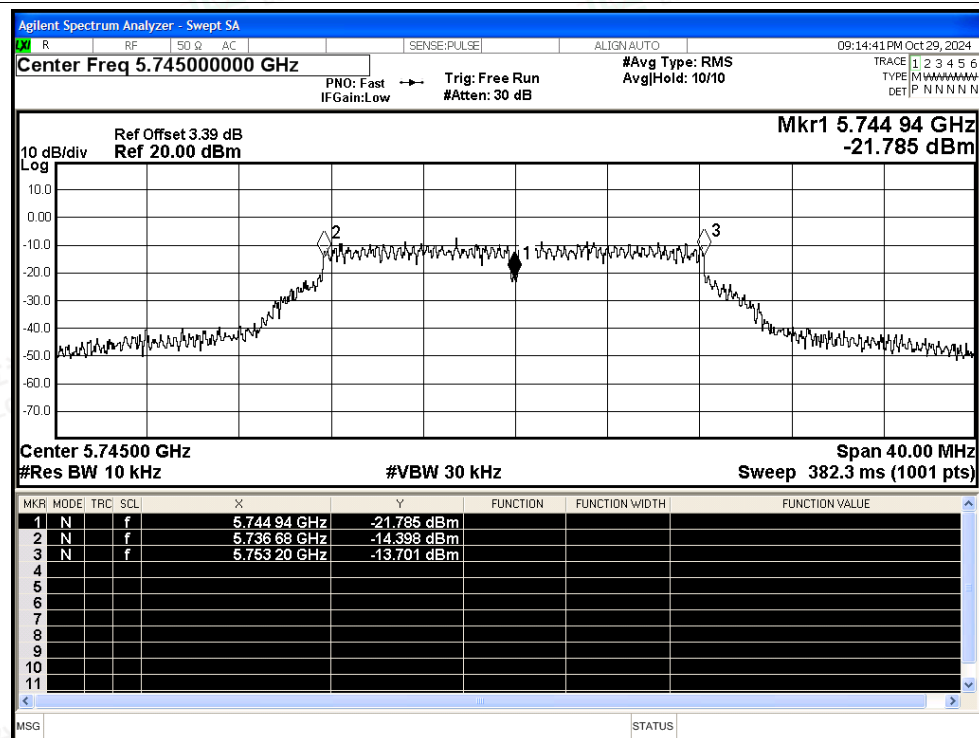
Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5744.94	-60000	-10.44	25	Pass
NVNT	a	5785	Ant1	5784.94	-60000	-10.37	25	Pass
NVNT	a	5825	Ant1	5824.94	-60000	-10.3	25	Pass
NVNT	n20	5745	Ant1	5744.94	-60000	-10.44	25	Pass
NVNT	n20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NVNT	n20	5825	Ant1	5824.94	-60000	-10.3	25	Pass
NVNT	ac20	5745	Ant1	5744.96	-40000	-6.96	25	Pass
NVNT	ac20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NVNT	ac20	5825	Ant1	5824.96	-40000	-6.87	25	Pass
NVNT	ax20	5745	Ant1	5744.92	-80000	-13.93	25	Pass
NVNT	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NVNT	ax20	5825	Ant1	5824.94	-60000	-10.3	25	Pass



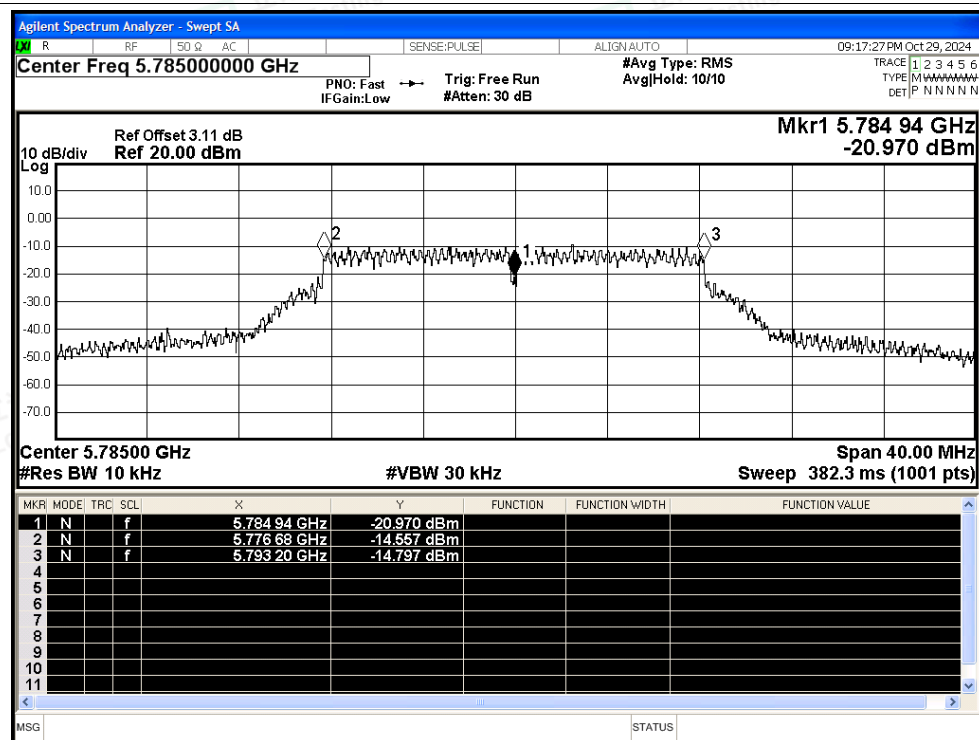


Test Graphs

Freq. Stability NVNT a 5745MHz Ant1



Freq. Stability NVNT a 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

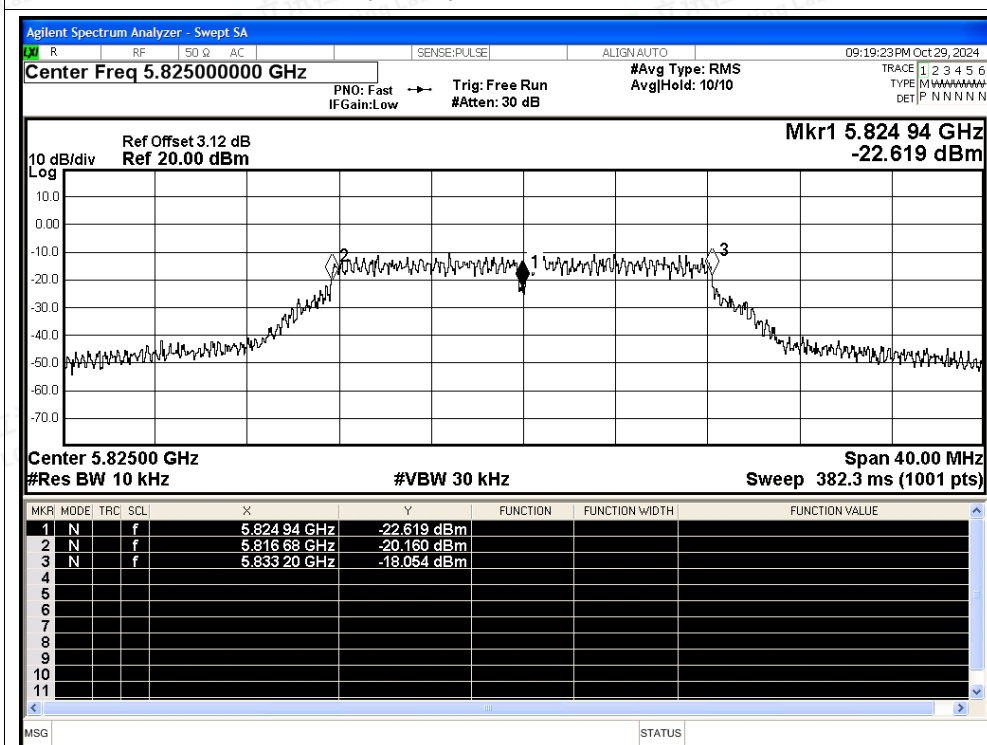
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

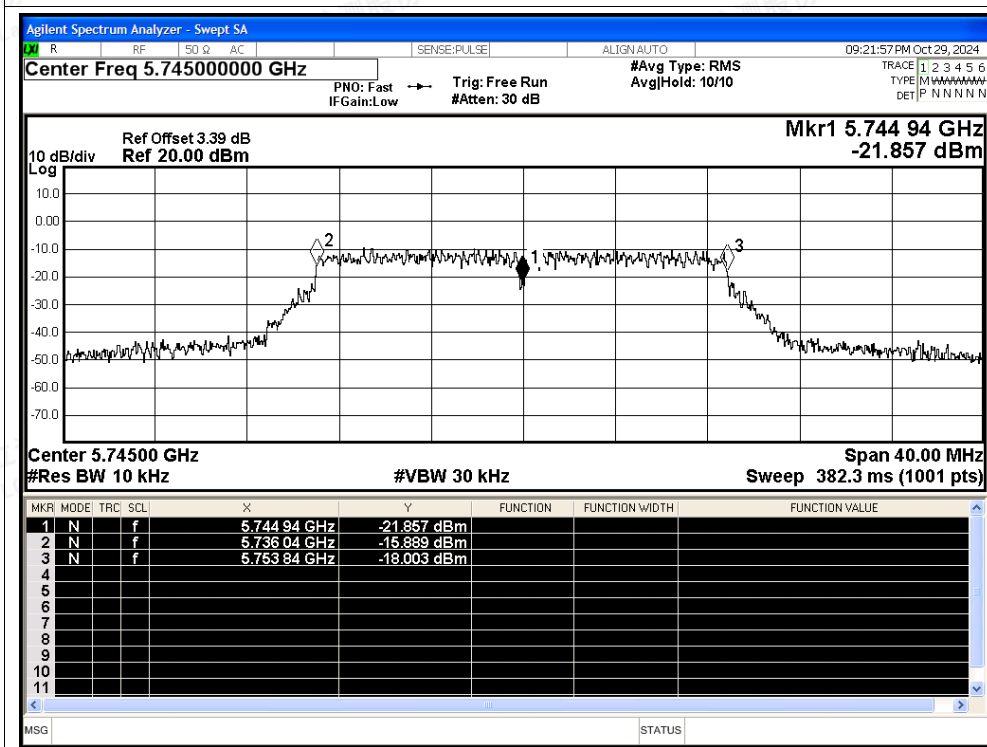
Scan code to check authenticity



Freq. Stability NVNT a 5825MHz Ant1



Freq. Stability NVNT n20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

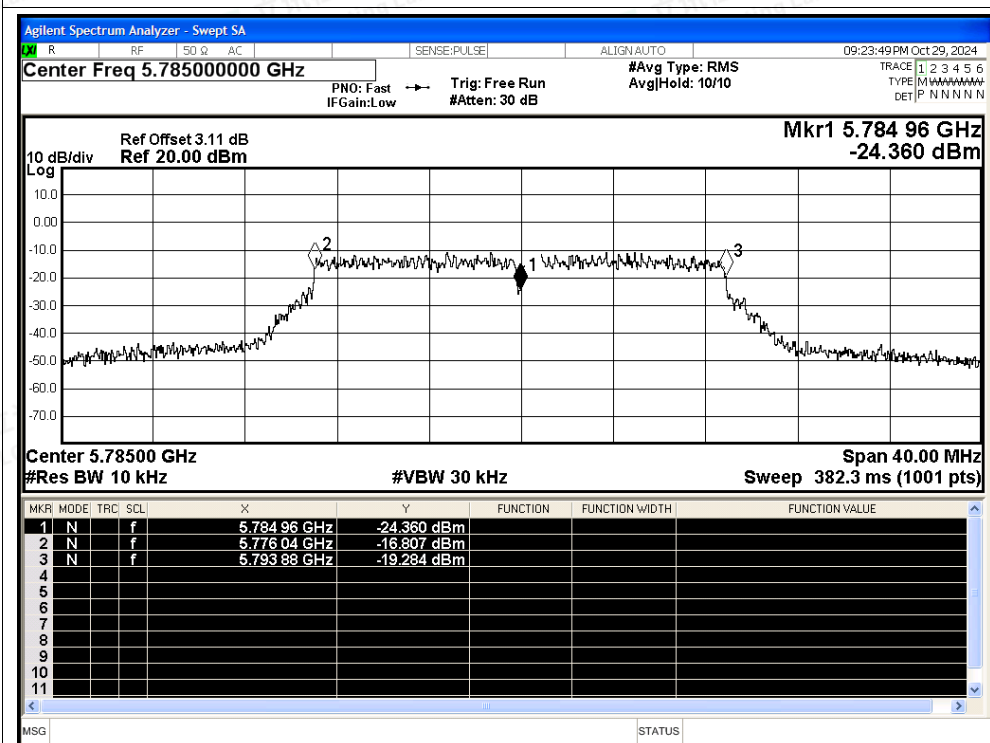
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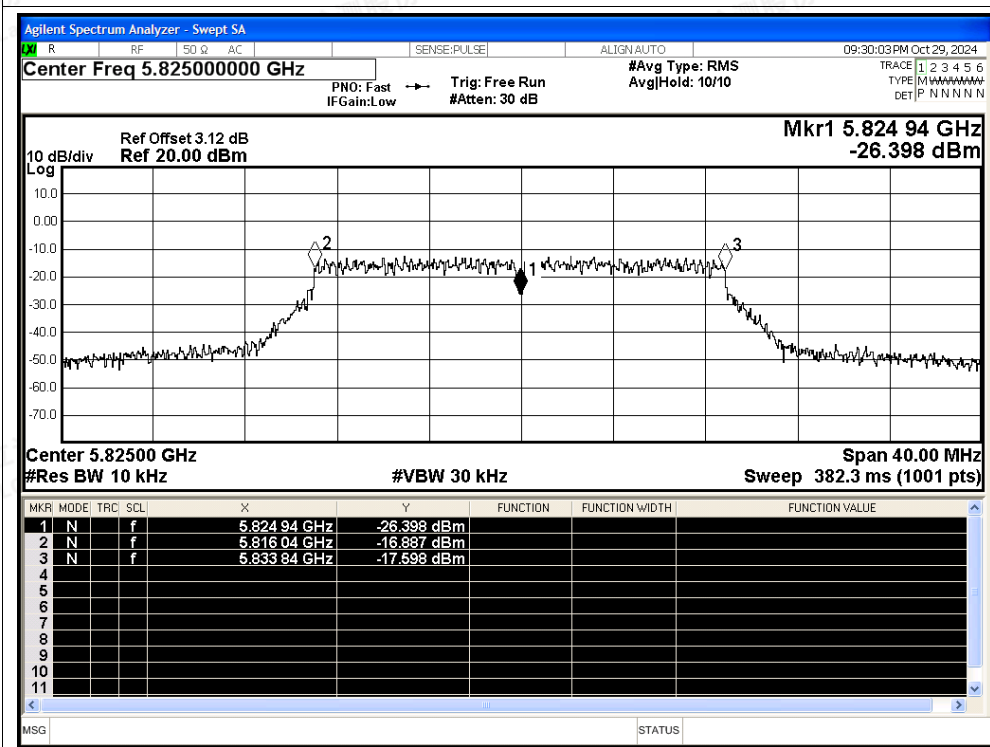
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Freq. Stability NVNT n20 5785MHz Ant1



Freq. Stability NVNT n20 5825MHz Ant1



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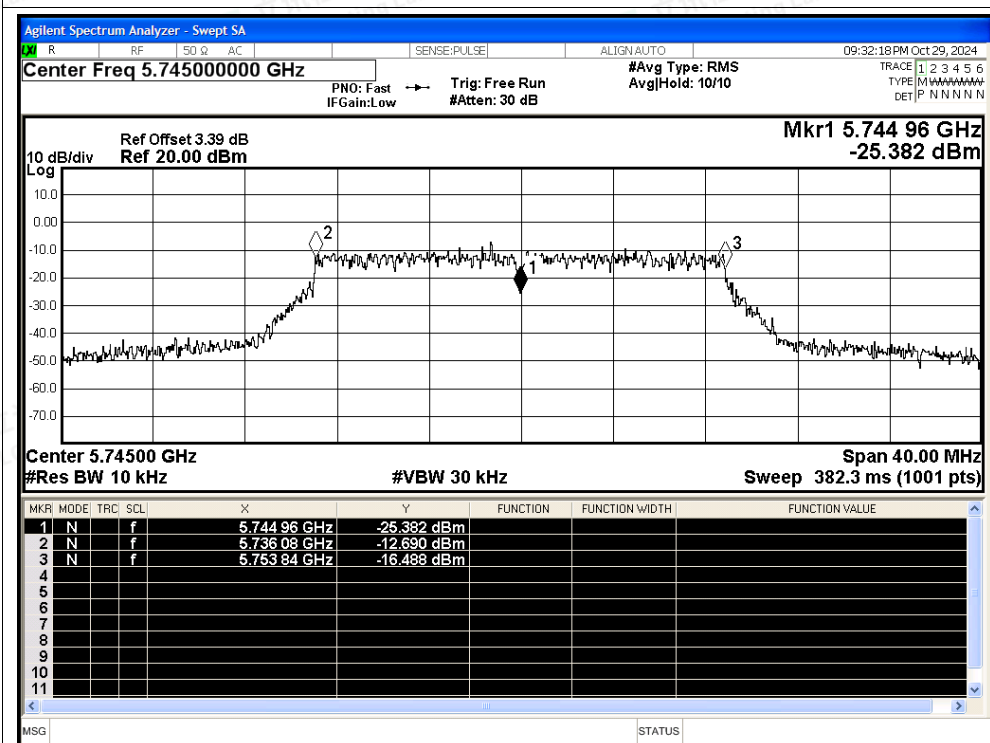
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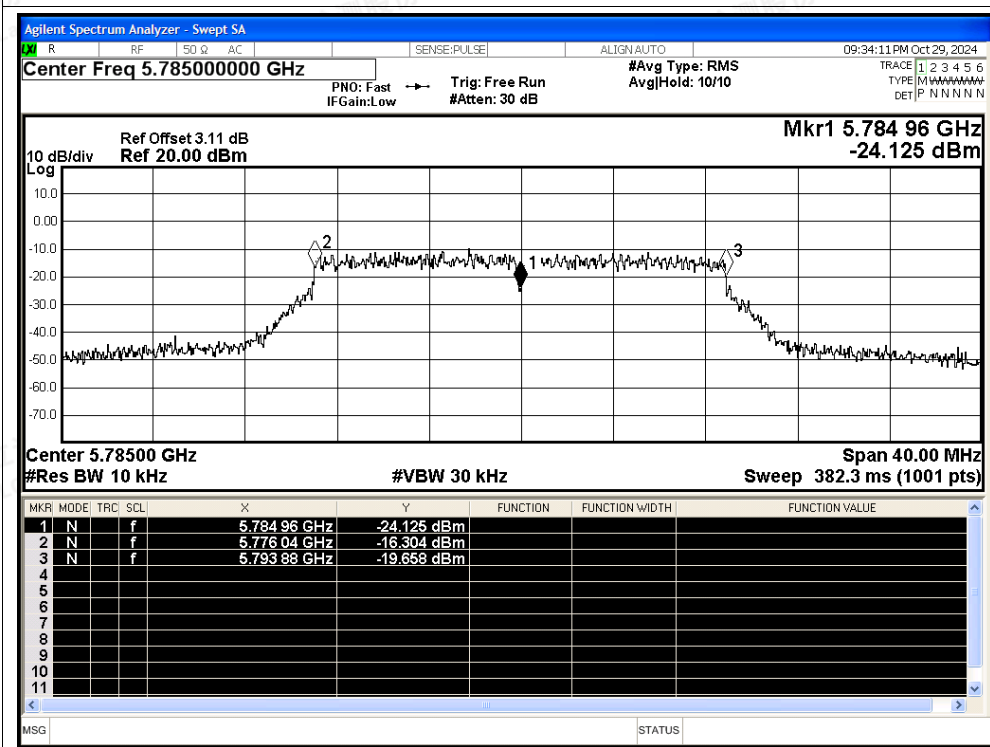
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Freq. Stability NVNT ac20 5745MHz Ant1



Freq. Stability NVNT ac20 5785MHz Ant1



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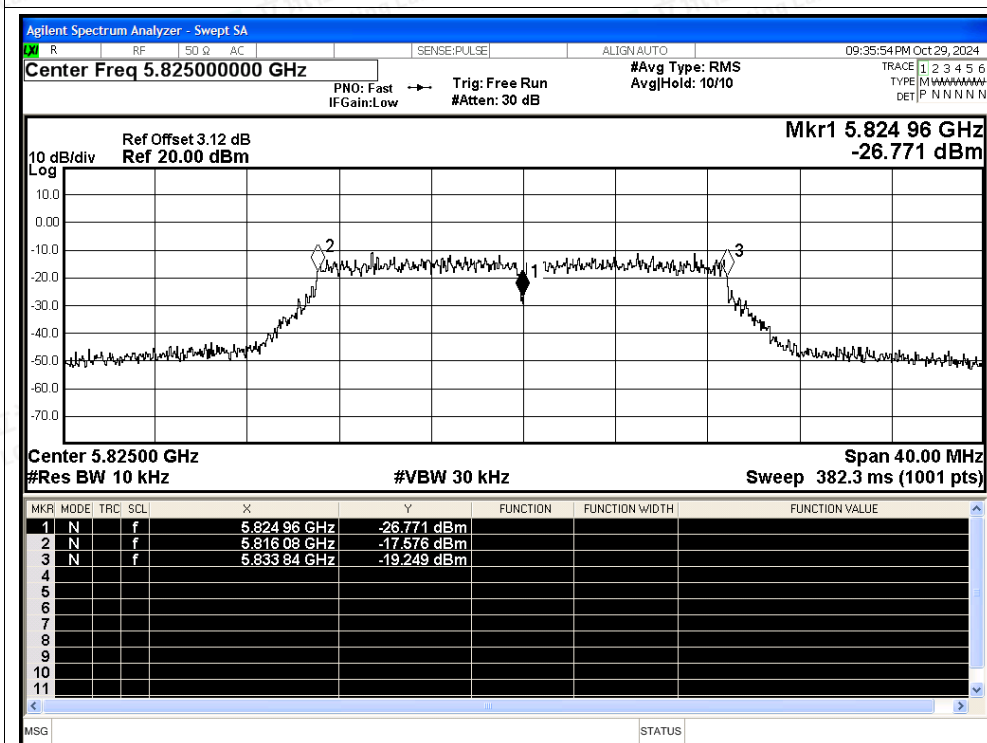
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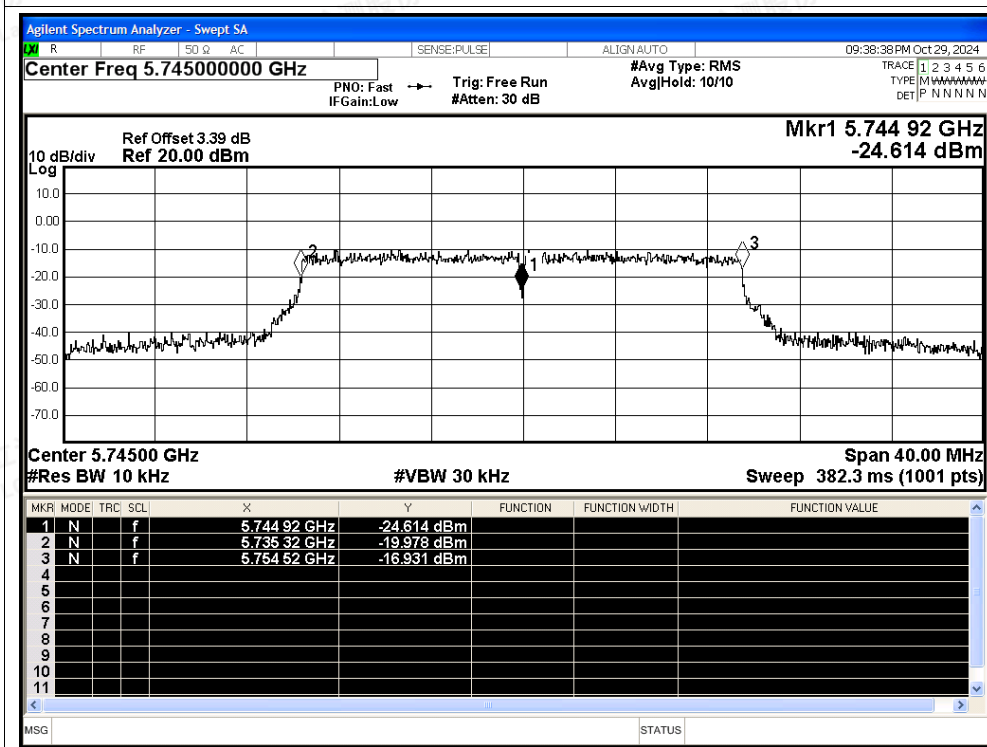
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Freq. Stability NVNT ac20 5825MHz Ant1



Freq. Stability NVNT ax20 5745MHz Ant1



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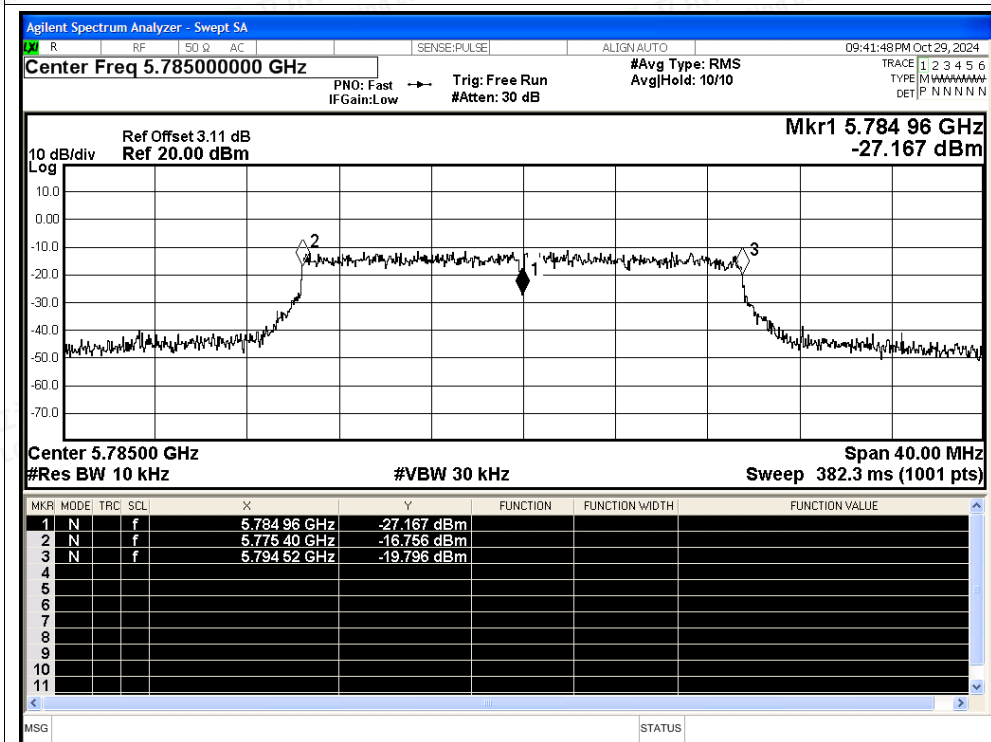
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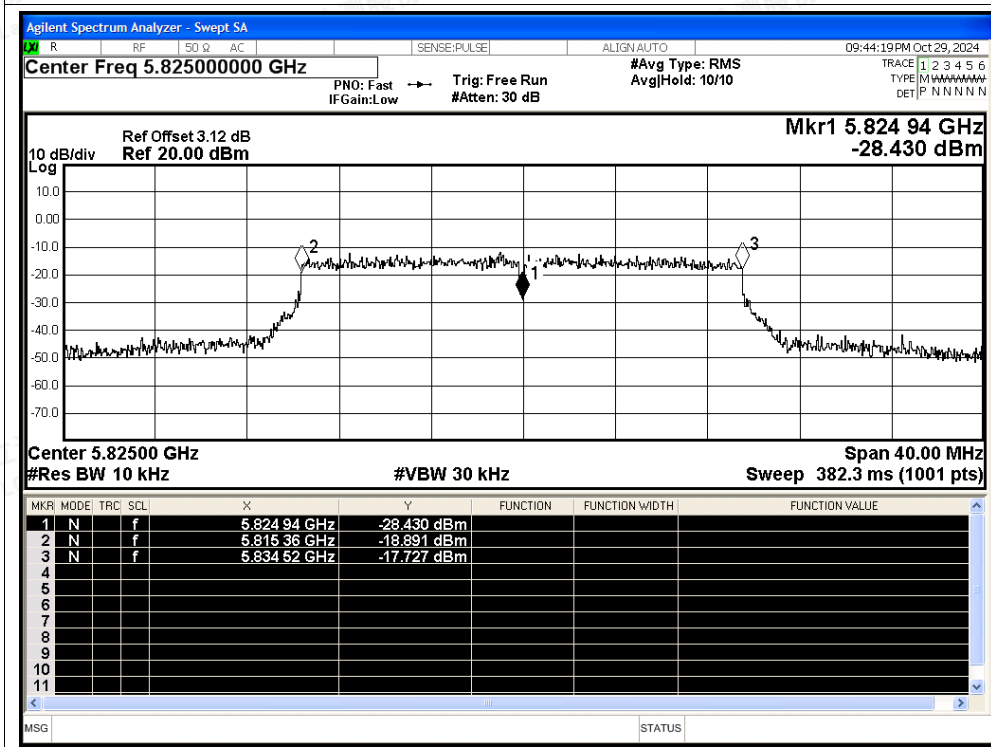
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Freq. Stability NVNT ax20 5785MHz Ant1



Freq. Stability NVNT ax20 5825MHz Ant1



**802.11ax OFDMA-(26 Tone)**

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ax20	5745	Ant1	5744.99	-80000	-1.74	25	Pass
NVNT	ax20	5785	Ant1	5784.99	-40000	-1.73	25	Pass
NVNT	ax20	5825	Ant1	5824.97	-60000	-5.15	25	Pass

802.11ax OFDMA-(52 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ax20	5745	Ant1	5745.02	-80000	3.48	25	Pass
NVNT	ax20	5785	Ant1	5784.96	-40000	-6.91	25	Pass
NVNT	ax20	5825	Ant1	5824.99	-60000	-1.72	25	Pass

802.11ax OFDMA-(106 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ax20	5745	Ant1	5744.98	-80000	-3.48	25	Pass
NVNT	ax20	5785	Ant1	5784.97	-40000	-5.19	25	Pass
NVNT	ax20	5825	Ant1	5824.96	-60000	-6.87	25	Pass

802.11ax OFDMA-(242 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ax20	5745	Ant1	5744.97	-80000	-5.22	25	Pass
NVNT	ax20	5785	Ant1	5785.04	-40000	6.91	25	Pass
NVNT	ax20	5825	Ant1	5825.02	-60000	3.43	25	Pass





D.6 Duty Cycle

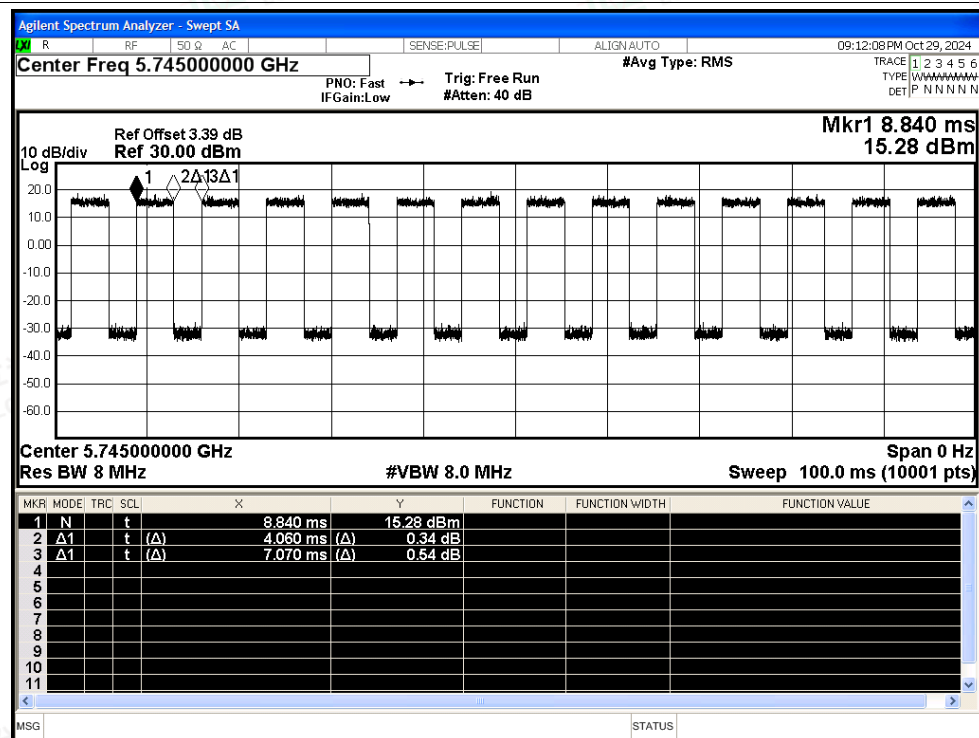
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	57.43	2.41	0.25
NVNT	a	5785	Ant1	57.57	2.4	0.25
NVNT	a	5825	Ant1	57.43	2.41	0.25
NVNT	n20	5745	Ant1	53.2	2.74	0.29
NVNT	n20	5785	Ant1	53.04	2.75	0.29
NVNT	n20	5825	Ant1	53.12	2.75	0.29
NVNT	ac20	5745	Ant1	53.2	2.74	0.29
NVNT	ac20	5785	Ant1	53.12	2.75	0.29
NVNT	ac20	5825	Ant1	53.2	2.74	0.29
NVNT	ax20	5745	Ant1	48.98	3.1	0.35
NVNT	ax20	5785	Ant1	48.9	3.11	0.35
NVNT	ax20	5825	Ant1	48.98	3.1	0.35



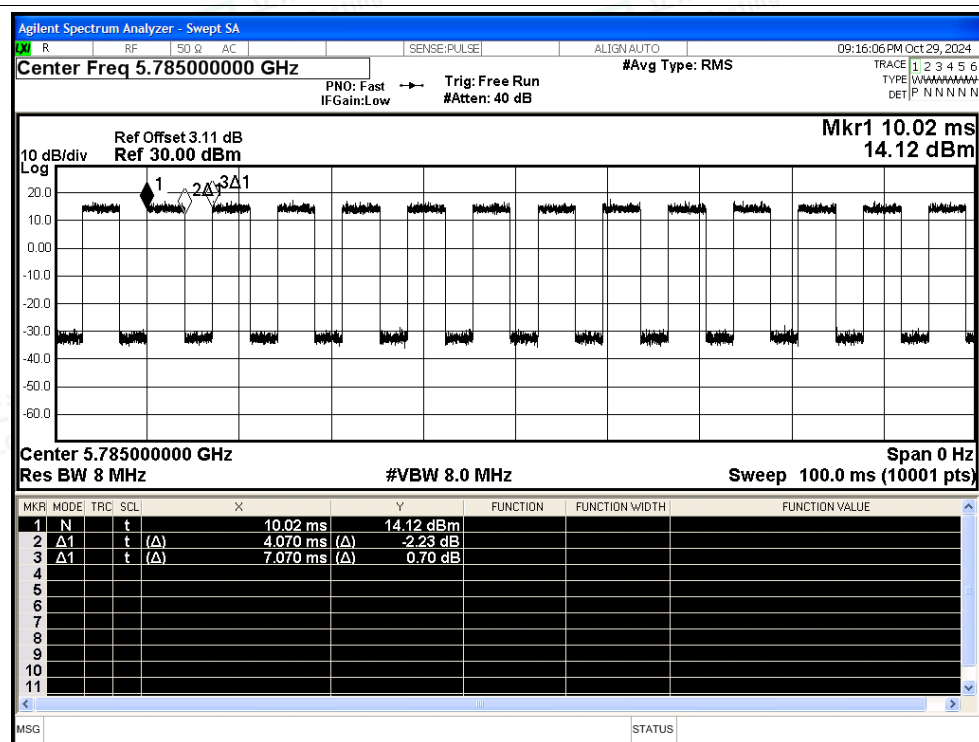


Test Graphs

Duty Cycle NVNT a 5745MHz Ant1



Duty Cycle NVNT a 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

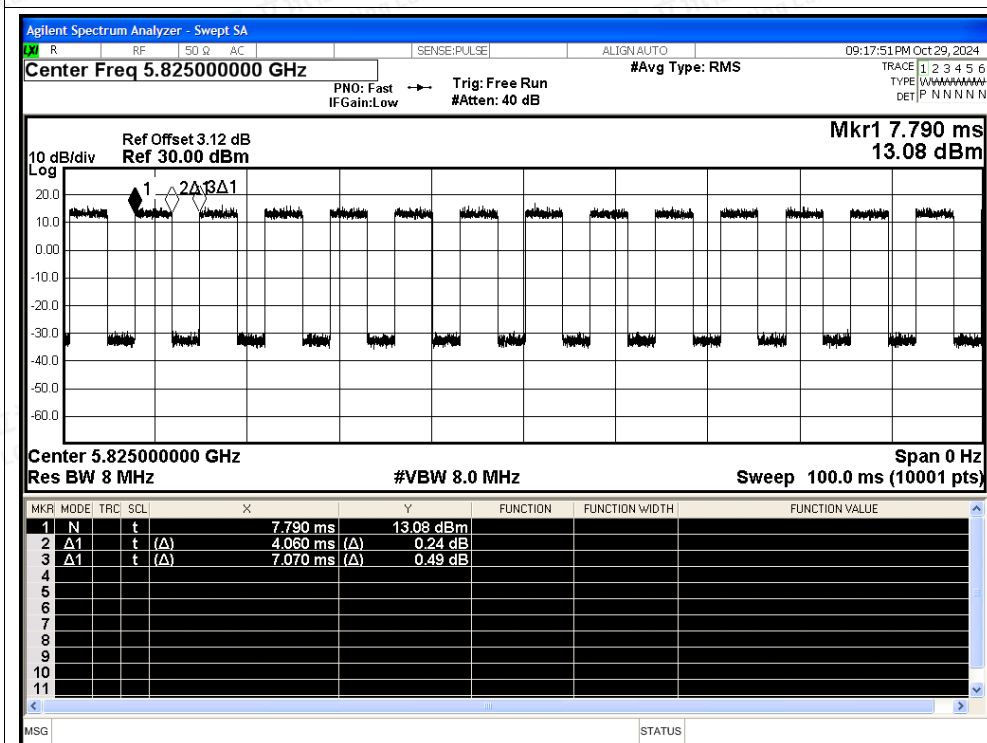
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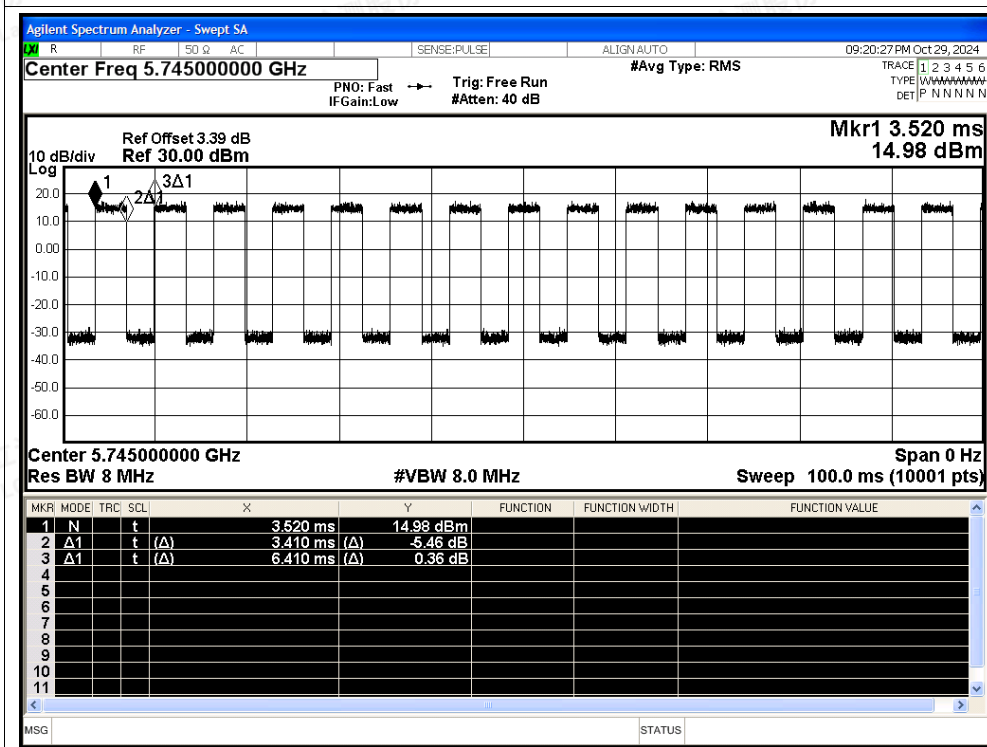
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Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

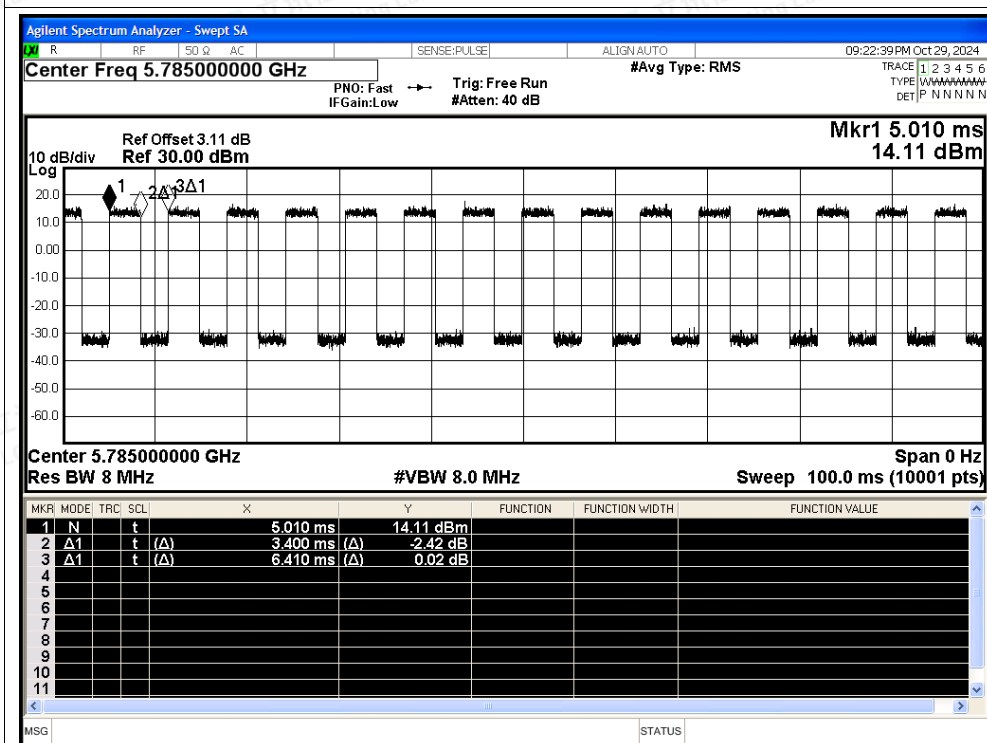
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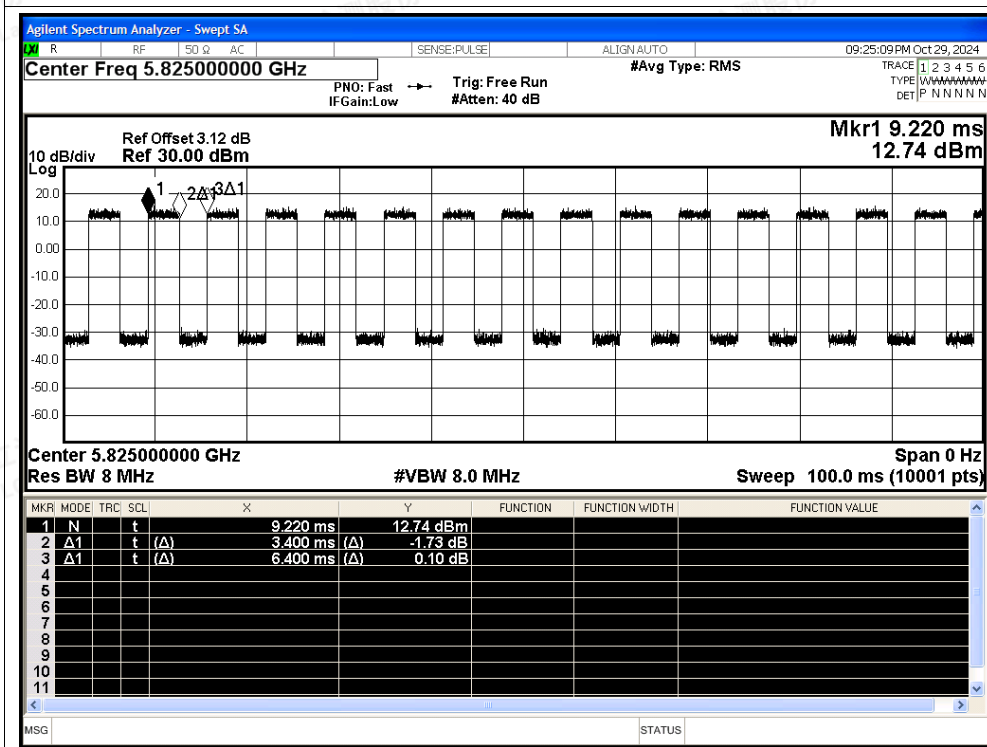
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Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



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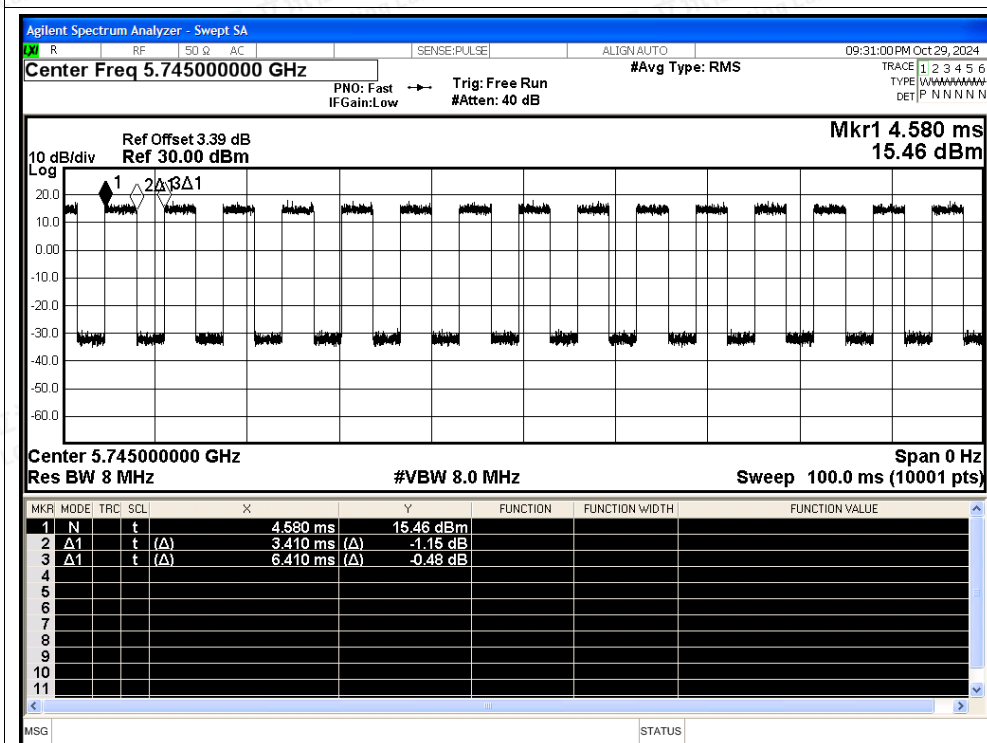
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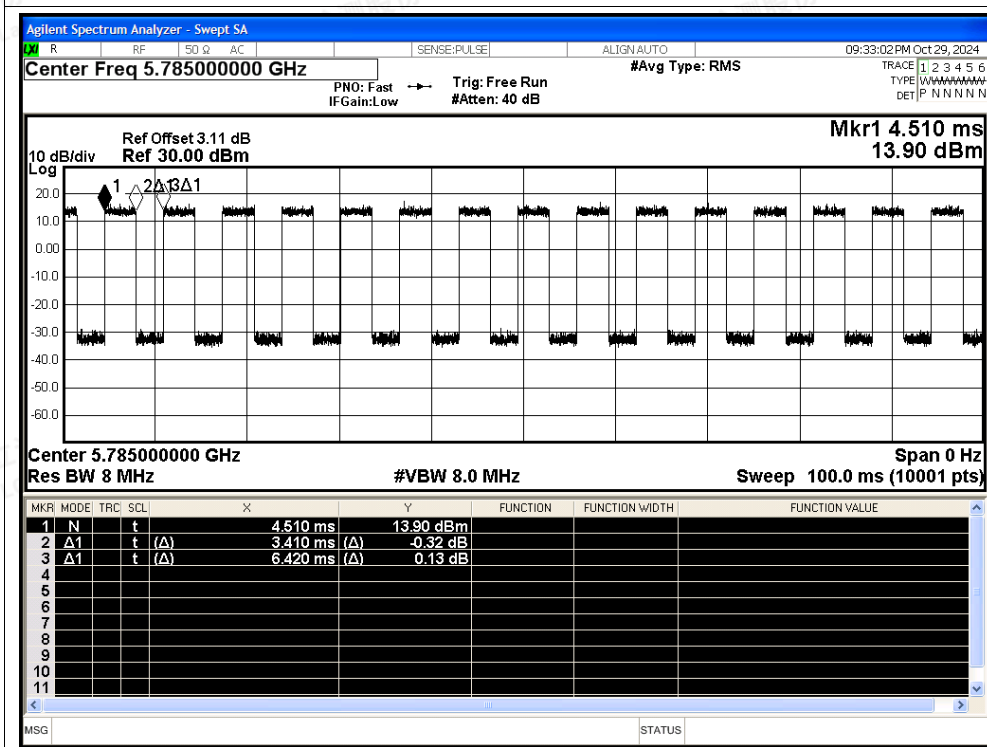
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Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1



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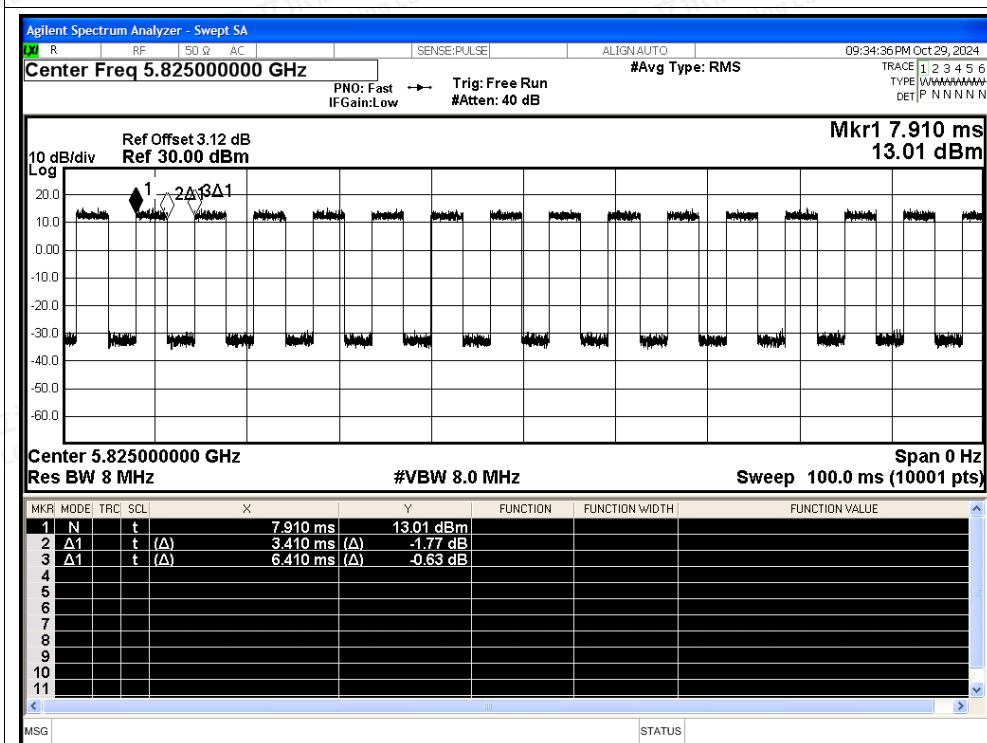
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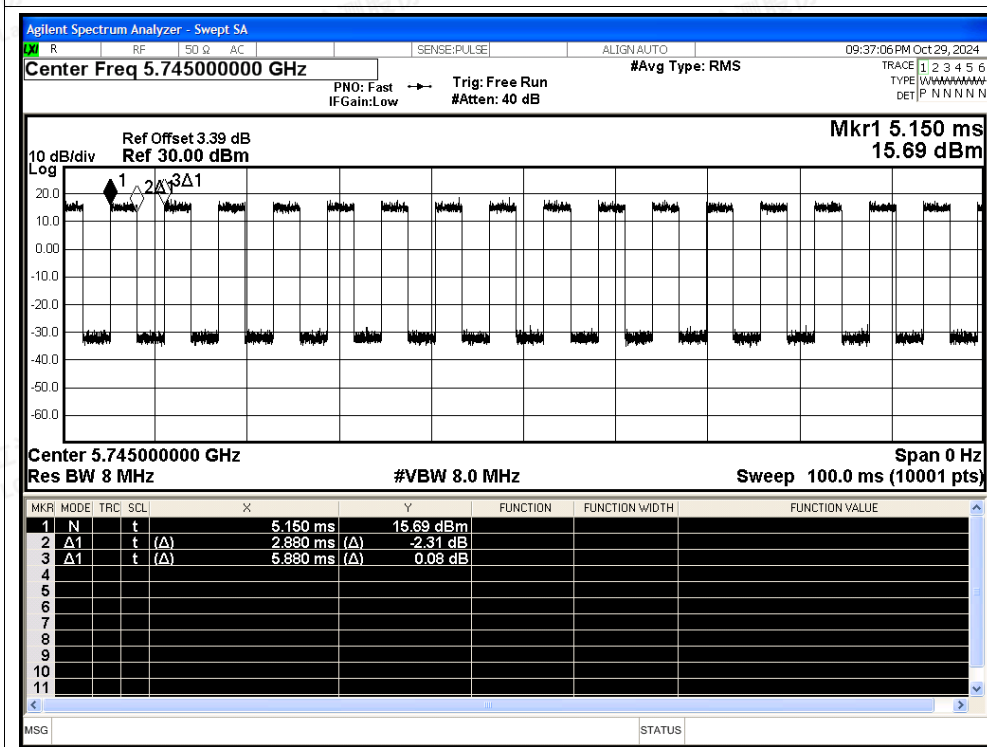
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Duty Cycle NVNT ac20 5825MHz Ant1



Duty Cycle NVNT ax20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

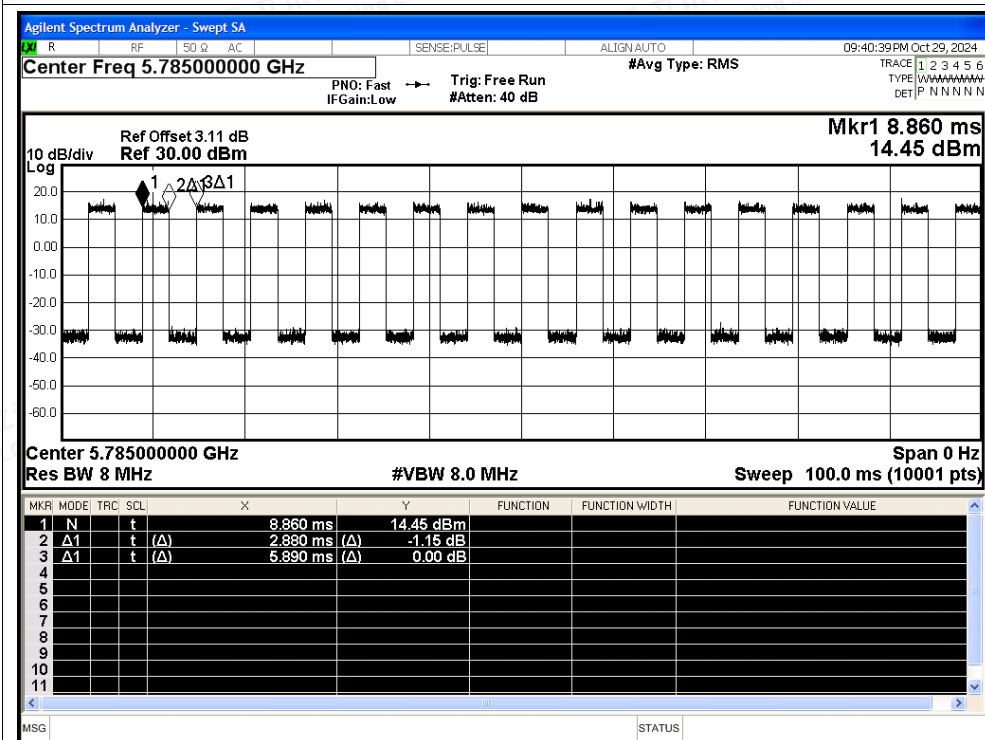
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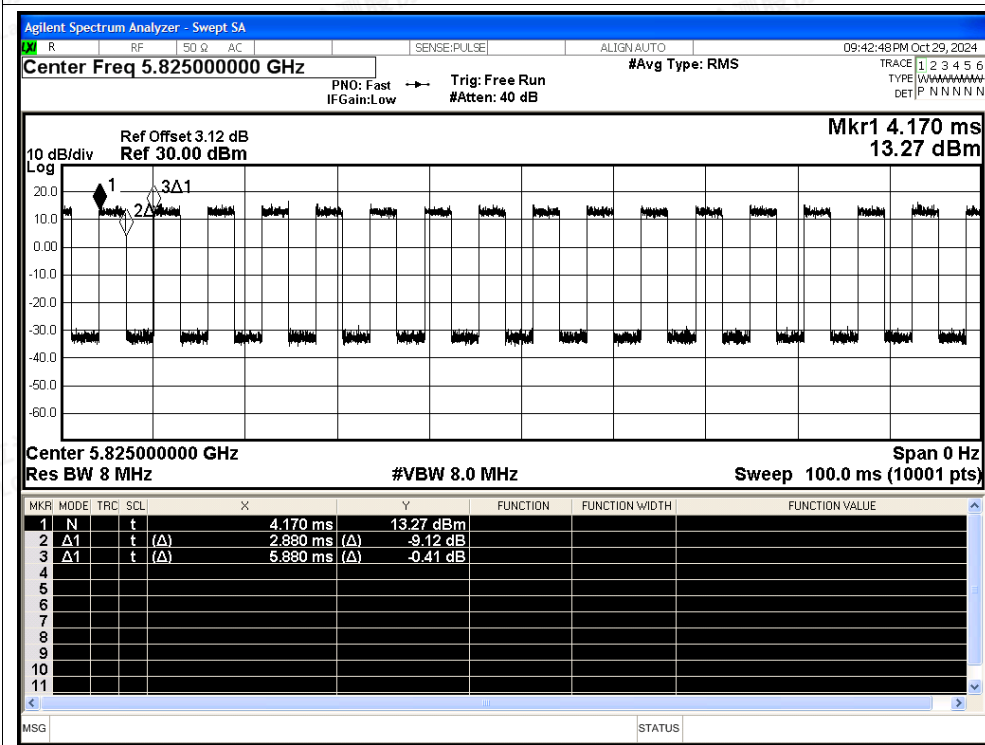
Scan code to check authenticity



Duty Cycle NVNT ax20 5785MHz Ant1



Duty Cycle NVNT ax20 5825MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

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**802.11ax OFDMA-(26 Tone)**

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	5745	Ant1	48.98	3.1	0.35
NVNT	ax20	5785	Ant1	48.9	3.11	0.35
NVNT	ax20	5825	Ant1	48.98	3.1	0.35

802.11ax OFDMA-(52 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	5745	Ant1	48.98	3.1	0.35
NVNT	ax20	5785	Ant1	48.9	3.11	0.35
NVNT	ax20	5825	Ant1	48.98	3.1	0.35

802.11ax OFDMA-(106 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	5745	Ant1	48.98	3.1	0.35
NVNT	ax20	5785	Ant1	48.9	3.11	0.35
NVNT	ax20	5825	Ant1	48.98	3.1	0.35

802.11ax OFDMA-(242 Tone)

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ax20	5745	Ant1	48.98	3.1	0.35
NVNT	ax20	5785	Ant1	48.9	3.11	0.35
NVNT	ax20	5825	Ant1	48.98	3.1	0.35

