



Appendix G

RF Test Data for 5.8GWIFI (Conducted Measurement)

Product Name: Rugged Tablet PC

Test Model: TABIC3

Environmental Conditions

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





G.1 -6dB Bandwidth

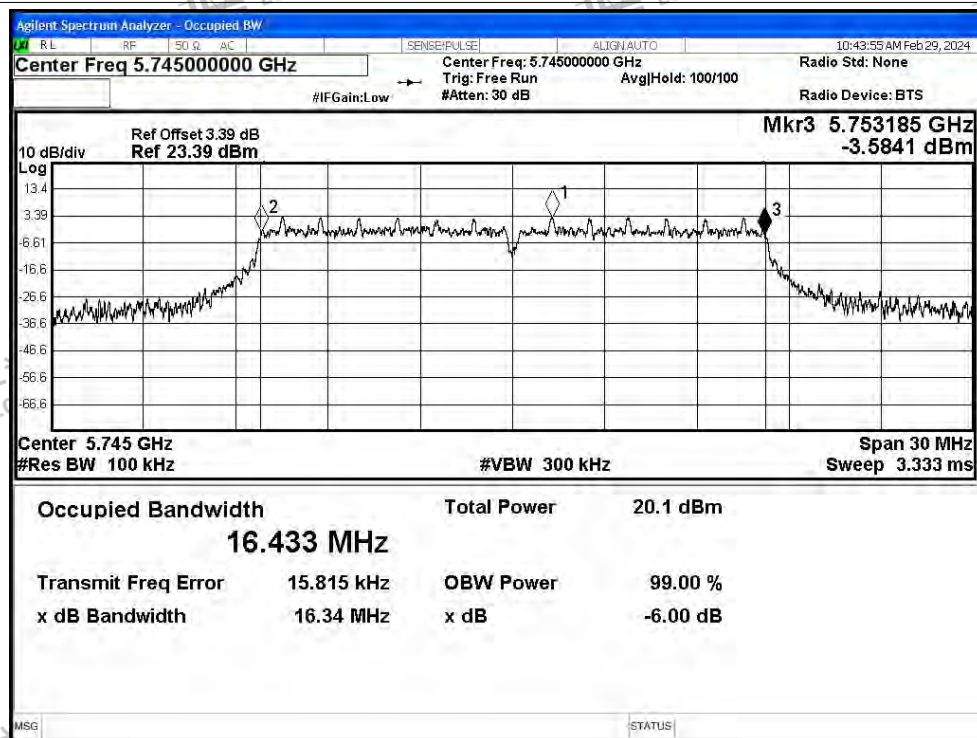
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.338	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.308	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.328	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.241	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.29	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.021	≥ 0.5	Pass
NVNT	n40	5755	Ant1	35.507	≥ 0.5	Pass
NVNT	n40	5795	Ant1	35.322	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	17.226	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	17.053	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	17.24	≥ 0.5	Pass
NVNT	ac40	5755	Ant1	35.599	≥ 0.5	Pass
NVNT	ac40	5795	Ant1	35.435	≥ 0.5	Pass
NVNT	ac80	5775	Ant1	75.374	≥ 0.5	Pass



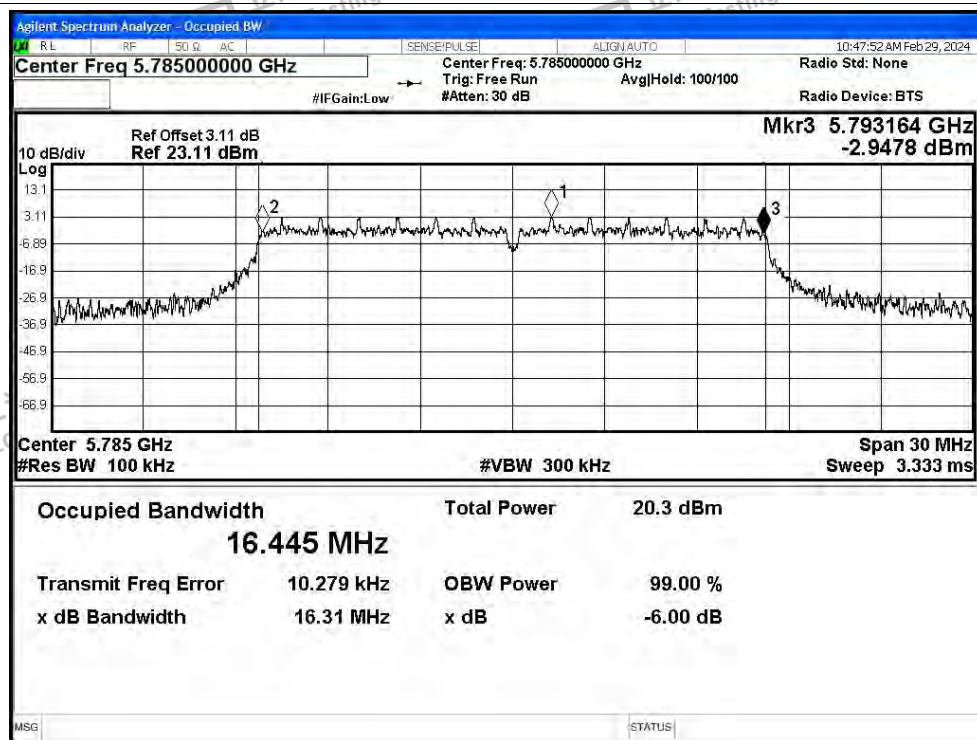


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1



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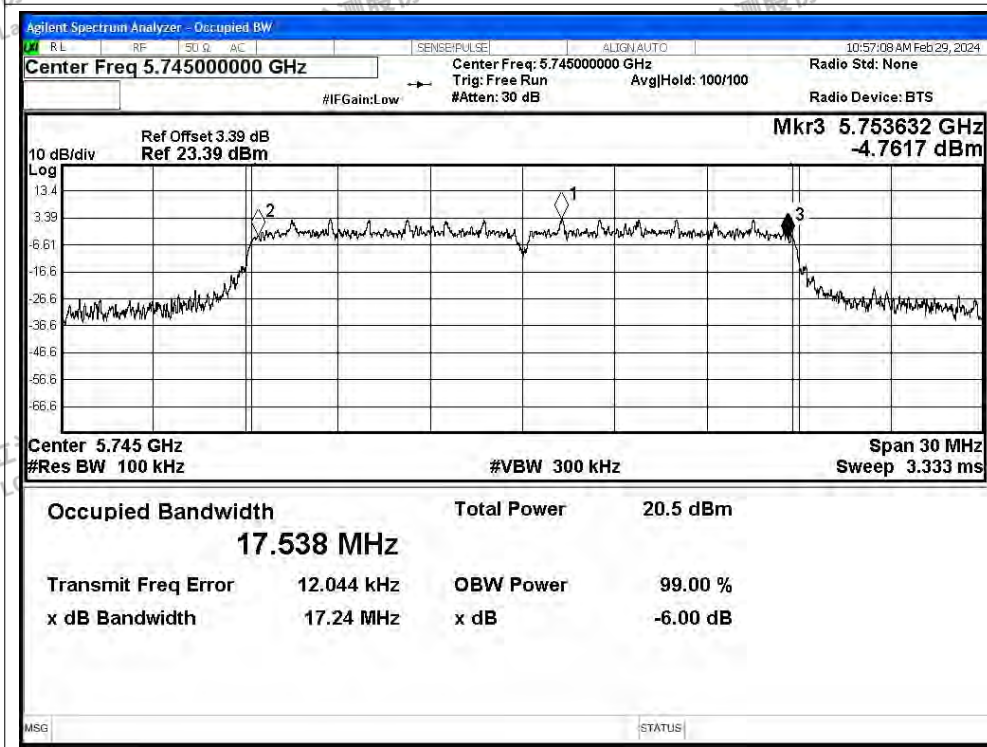
Scan code to check authenticity



-6dB Bandwidth NVNT a 5825MHz Ant1



-6dB Bandwidth NVNT n20 5745MHz Ant1



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-6dB Bandwidth NVNT n20 5785MHz Ant1

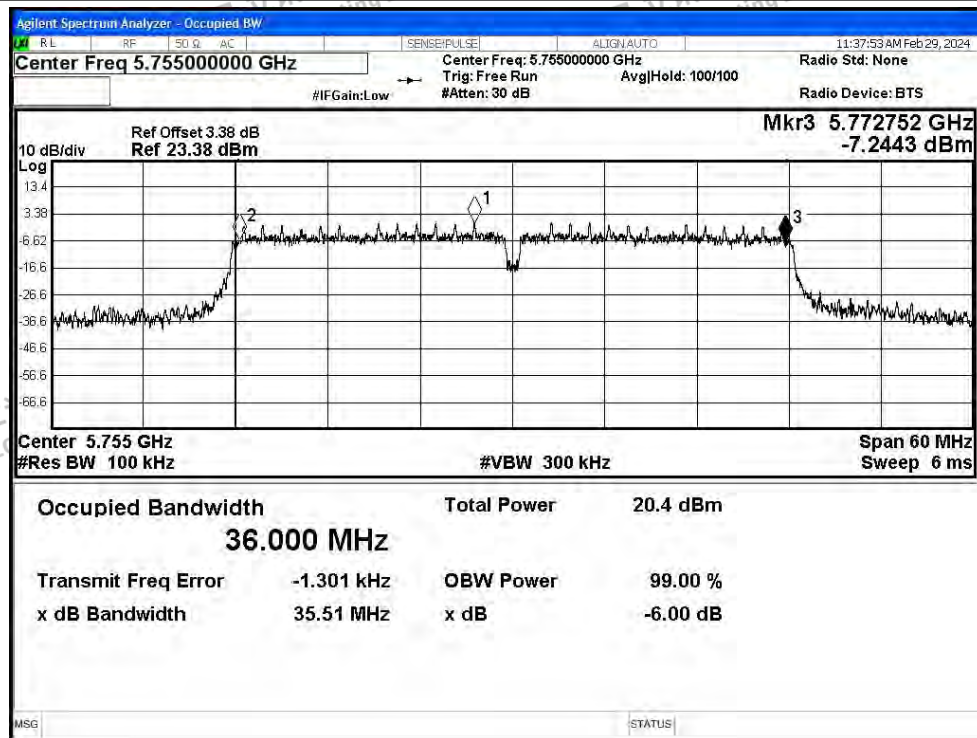


-6dB Bandwidth NVNT n20 5825MHz Ant1

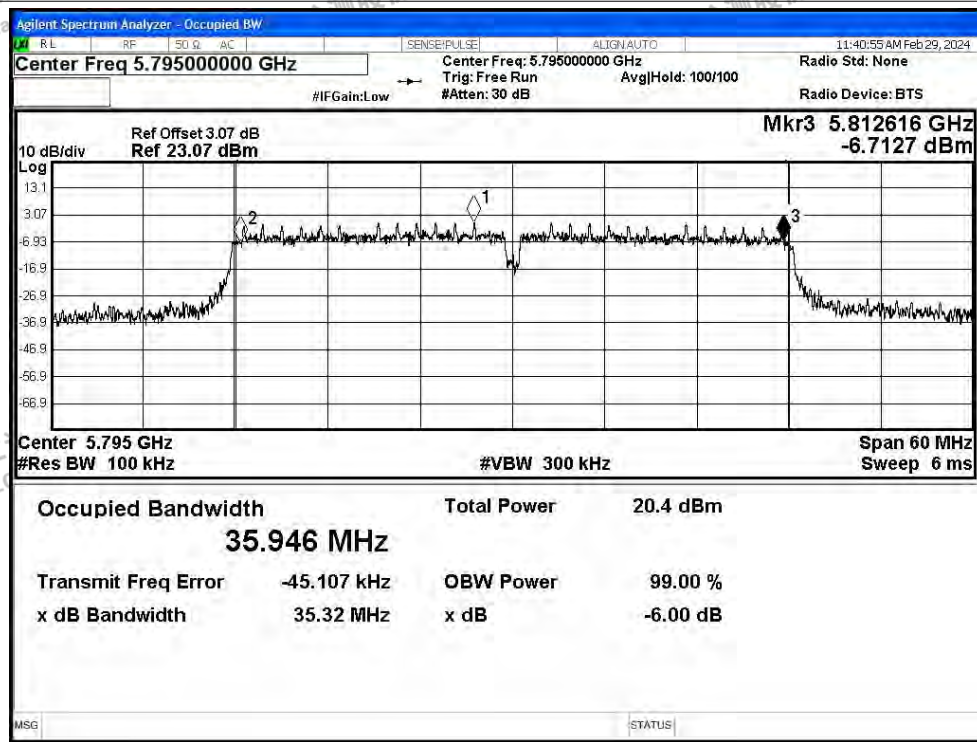




-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1

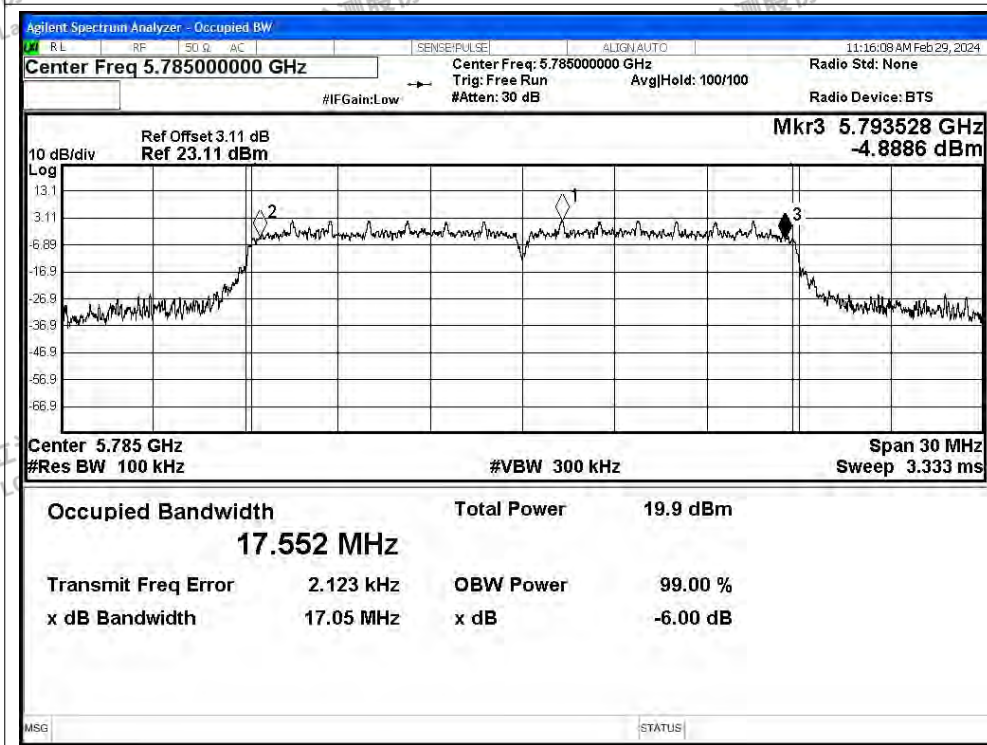




-6dB Bandwidth NVNT ac20 5745MHz Ant1



-6dB Bandwidth NVNT ac20 5785MHz Ant1



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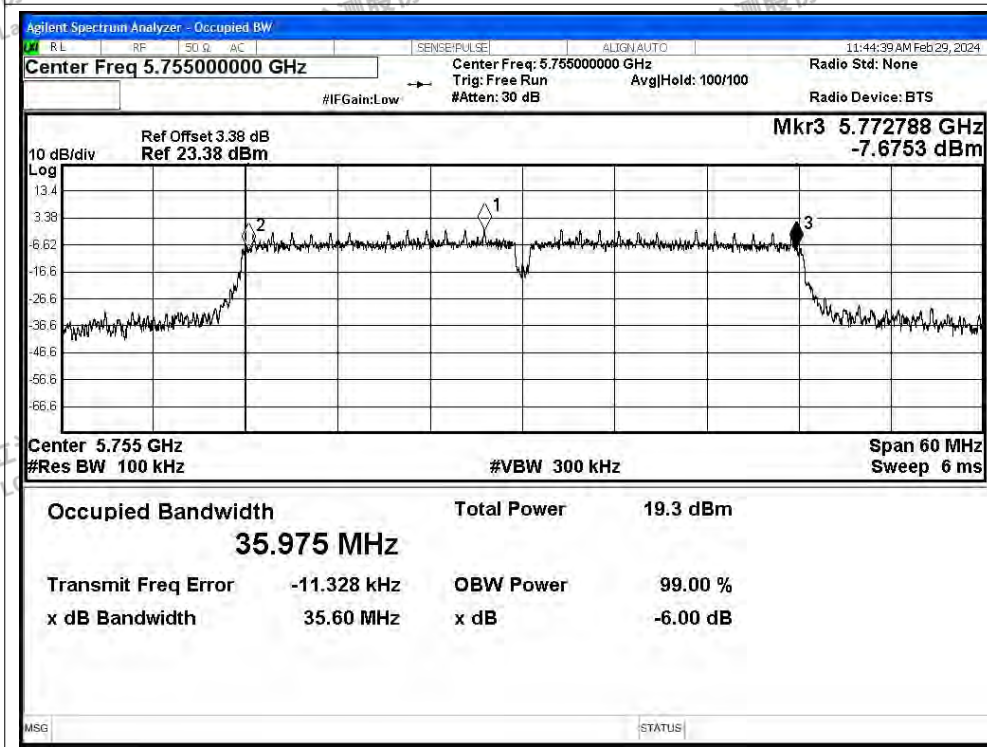
Scan code to check authenticity



-6dB Bandwidth NVNT ac20 5825MHz Ant1

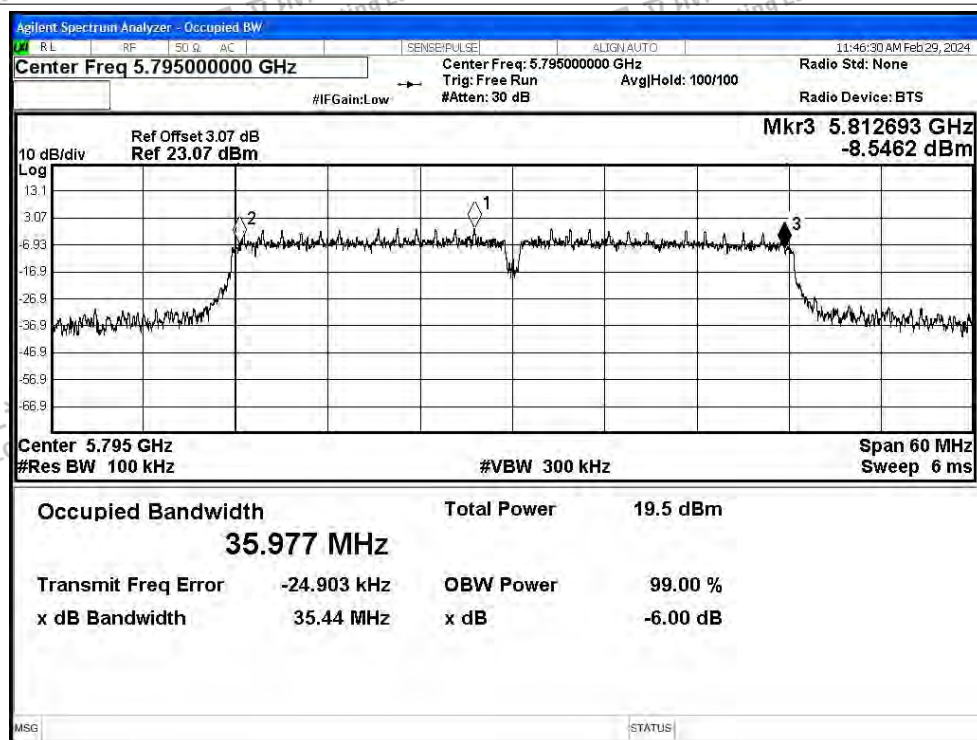


-6dB Bandwidth NVNT ac40 5755MHz Ant1

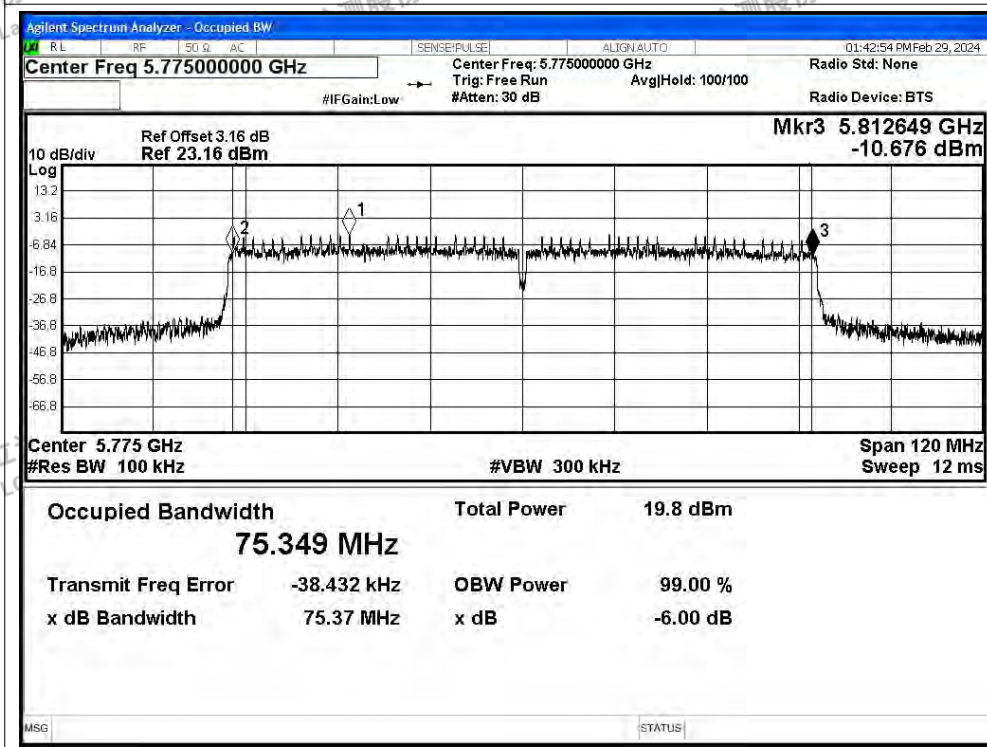




-6dB Bandwidth NVNT ac40 5795MHz Ant1



-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	Ant1	12.02	1.88	13.9	30	Pass
NVNT	a	5785	Ant1	12.65	1.85	14.5	30	Pass
NVNT	a	5825	Ant1	12.04	1.88	13.92	30	Pass
NVNT	n20	5745	Ant1	12.54	1.86	14.4	30	Pass
NVNT	n20	5785	Ant1	12.77	1.86	14.63	30	Pass
NVNT	n20	5825	Ant1	12.1	1.86	13.96	30	Pass
NVNT	n40	5755	Ant1	11.13	2.59	13.72	30	Pass
NVNT	n40	5795	Ant1	11.46	2.59	14.05	30	Pass
NVNT	ac20	5745	Ant1	12.51	1.8	14.31	30	Pass
NVNT	ac20	5785	Ant1	11.88	1.8	13.68	30	Pass
NVNT	ac20	5825	Ant1	11.38	1.8	13.18	30	Pass
NVNT	ac40	5755	Ant1	10.63	2.4	13.03	30	Pass
NVNT	ac40	5795	Ant1	10.75	2.45	13.2	30	Pass
NVNT	ac80	5775	Ant1	10.3	3.01	13.31	30	Pass





G.3 Maximum Power Spectral Density Level

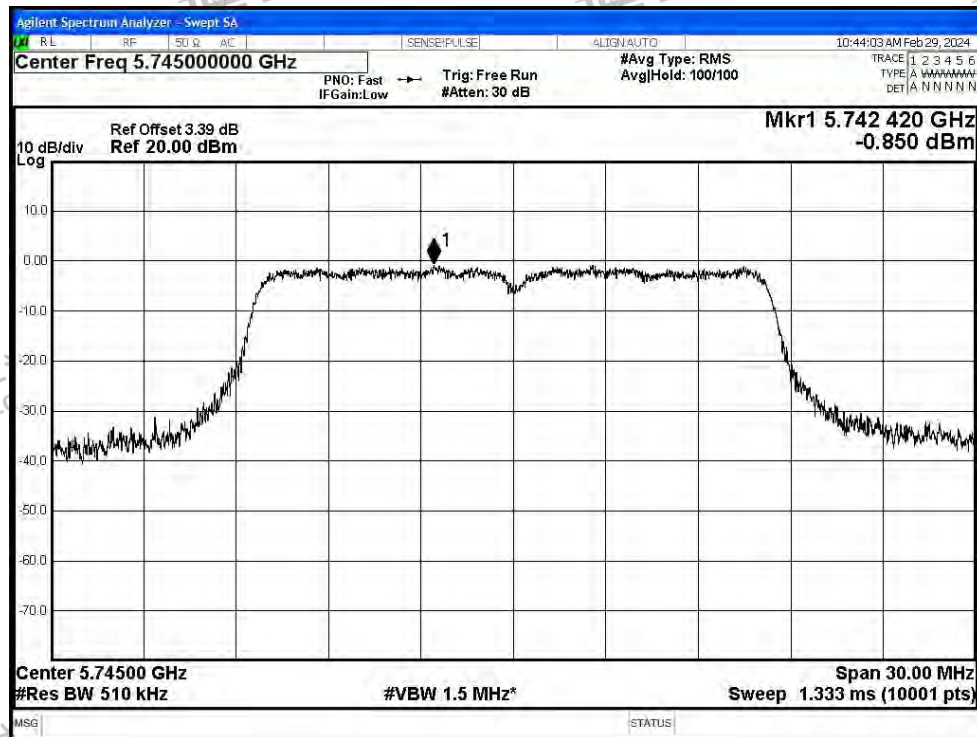
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/500KHz)	Duty Factor (dB)	Total PSD (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
NVNT	a	5745	Ant1	-0.85	1.88	1.03	30	Pass
NVNT	a	5785	Ant1	-0.5	1.85	1.35	30	Pass
NVNT	a	5825	Ant1	-0.27	1.88	1.61	30	Pass
NVNT	n20	5745	Ant1	-0.56	1.86	1.3	30	Pass
NVNT	n20	5785	Ant1	-0.37	1.86	1.49	30	Pass
NVNT	n20	5825	Ant1	-0.98	1.86	0.88	30	Pass
NVNT	n40	5755	Ant1	-4.46	2.59	-1.87	30	Pass
NVNT	n40	5795	Ant1	-4.05	2.59	-1.46	30	Pass
NVNT	ac20	5745	Ant1	-0.73	1.8	1.07	30	Pass
NVNT	ac20	5785	Ant1	-1.25	1.8	0.55	30	Pass
NVNT	ac20	5825	Ant1	-2.01	1.8	-0.21	30	Pass
NVNT	ac40	5755	Ant1	-5.12	2.4	-2.72	30	Pass
NVNT	ac40	5795	Ant1	-4.84	2.45	-2.39	30	Pass
NVNT	ac80	5775	Ant1	-7.02	3.01	-4.01	30	Pass



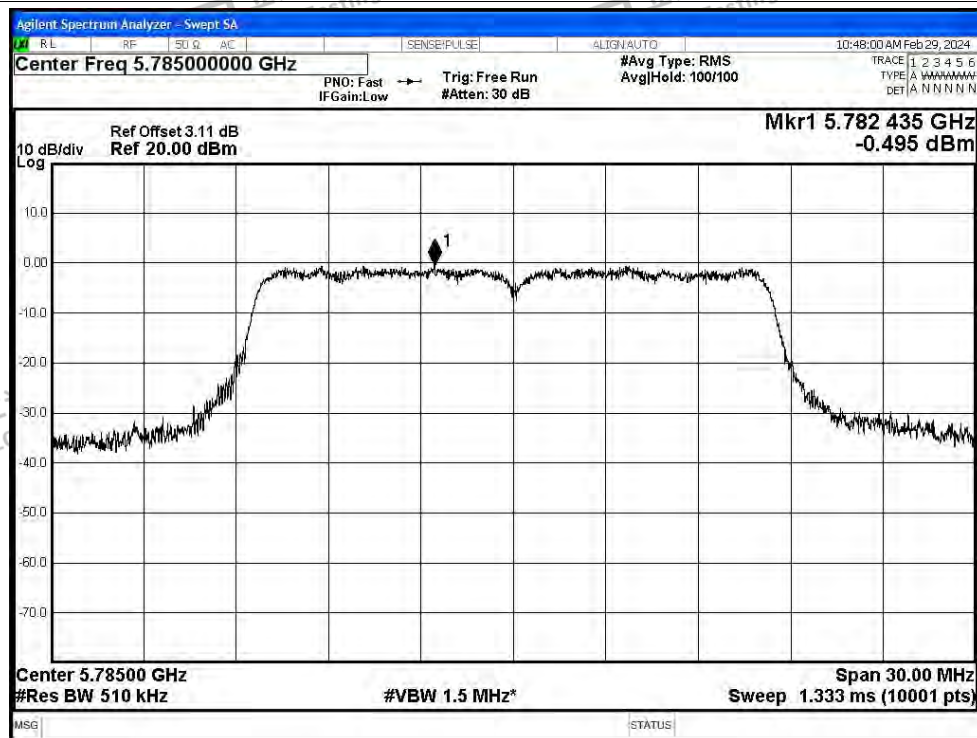


Test Graphs

PSD NVNT a 5745MHz Ant1

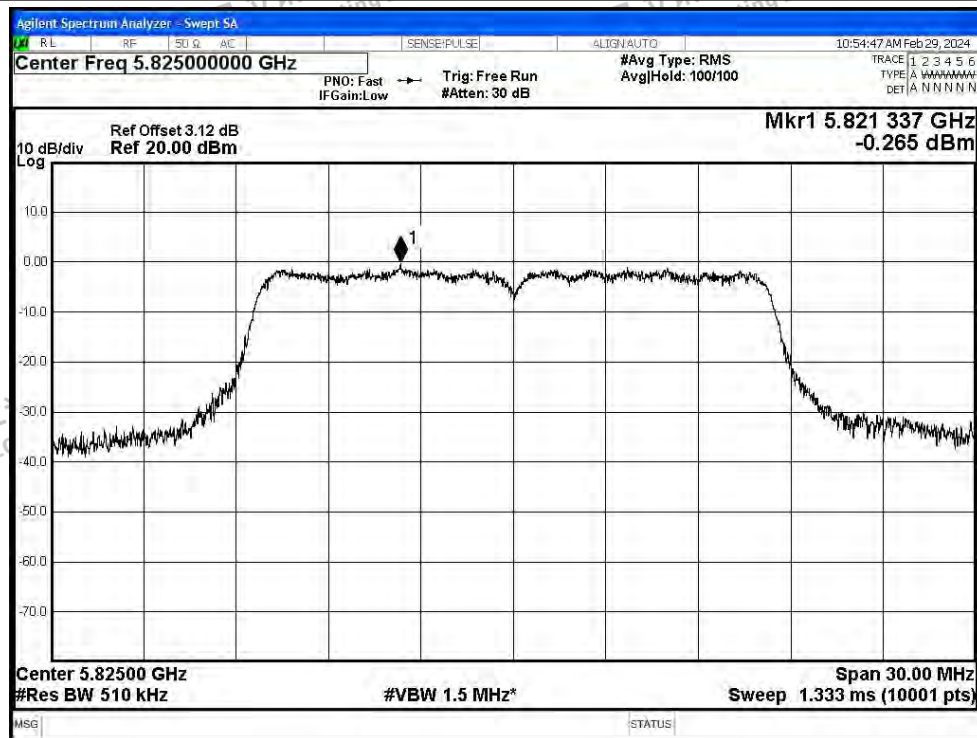


PSD NVNT a 5785MHz Ant1

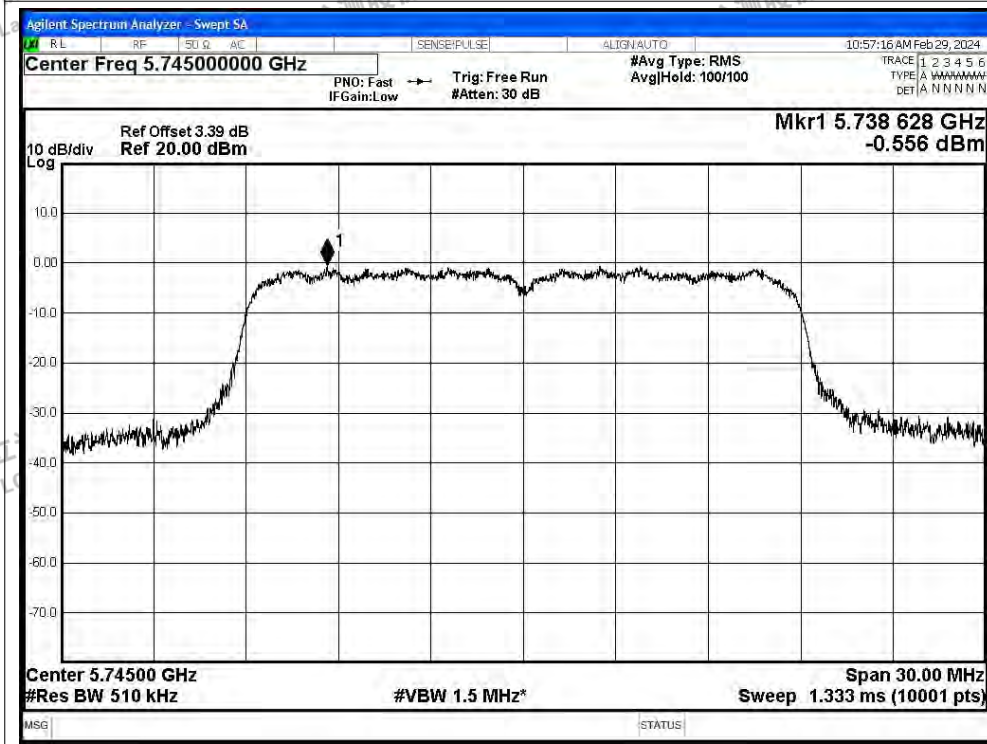




PSD NVNT a 5825MHz Ant1

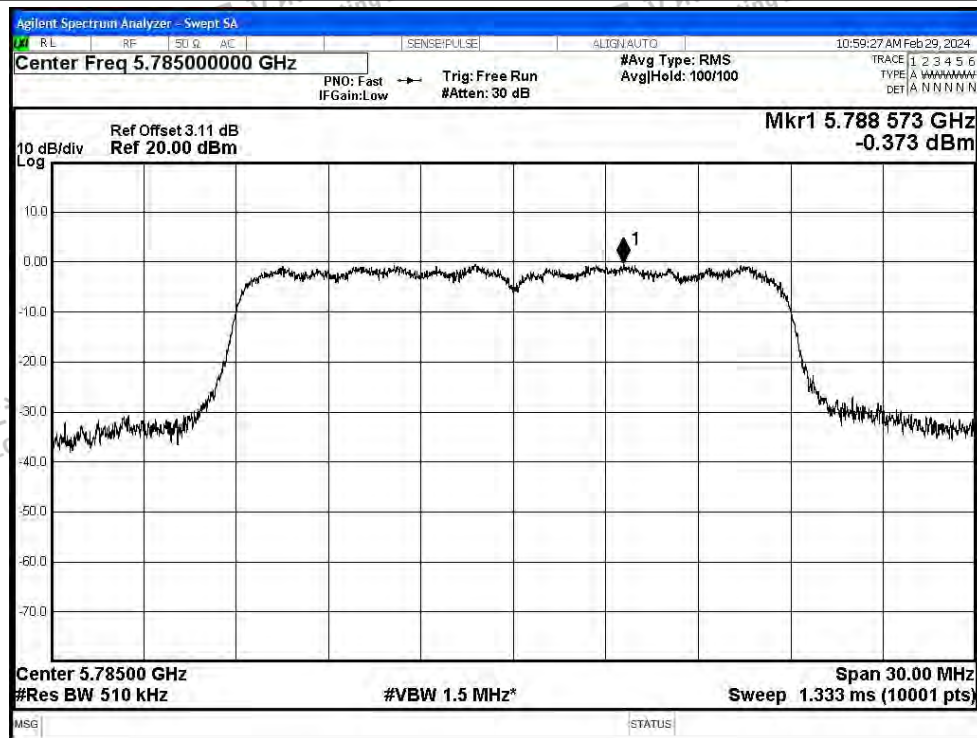


PSD NVNT n20 5745MHz Ant1

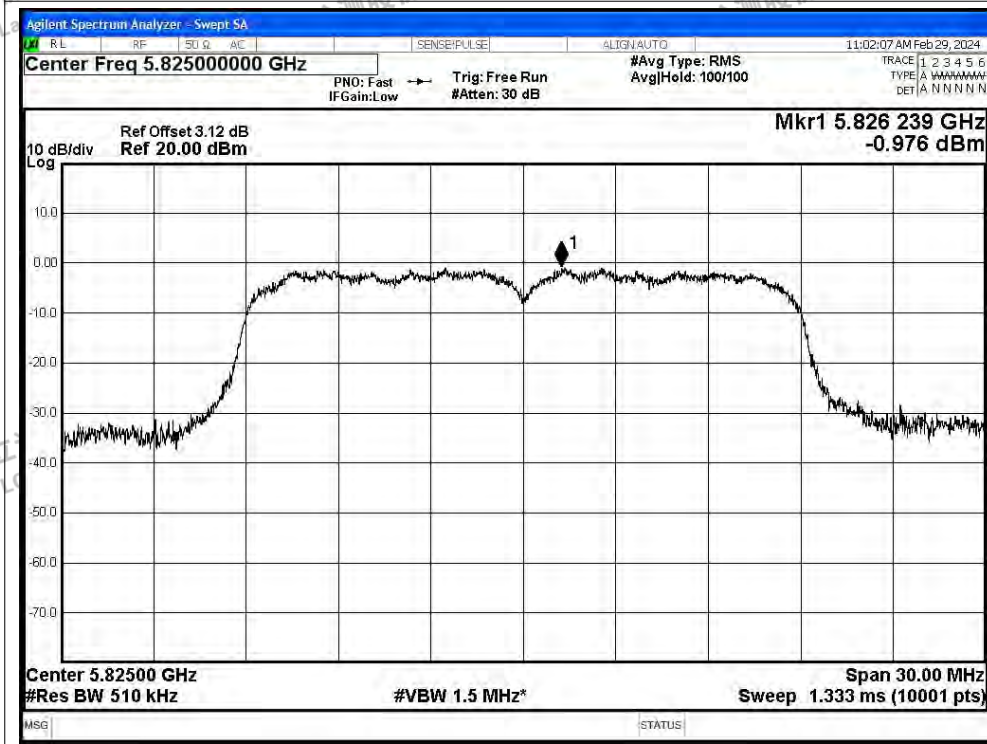




PSD NVNT n20 5785MHz Ant1

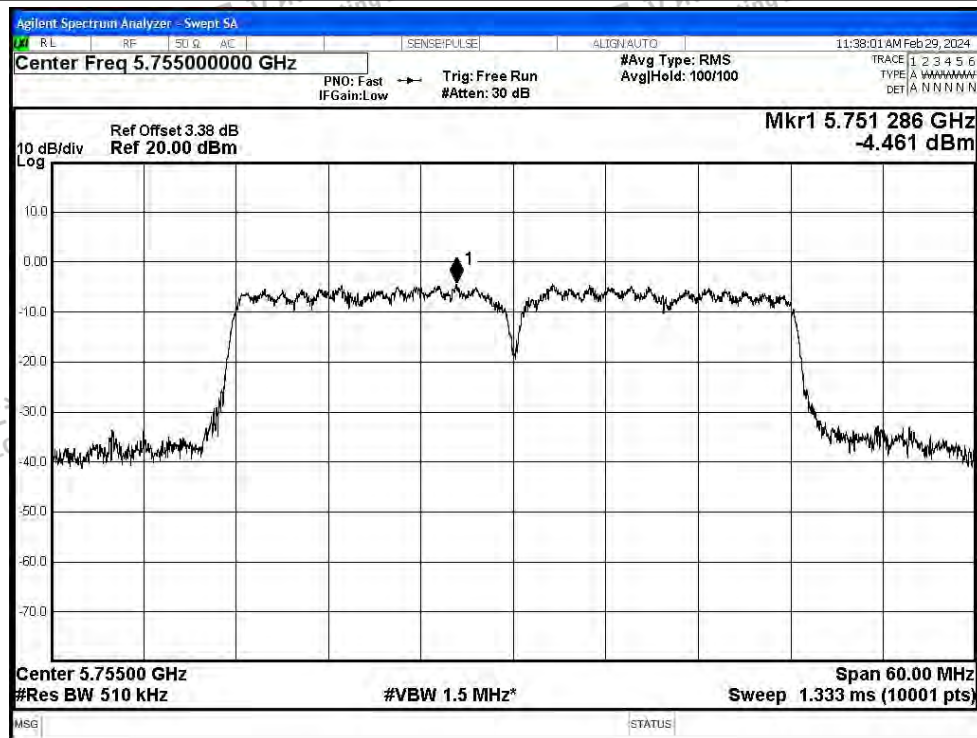


PSD NVNT n20 5825MHz Ant1

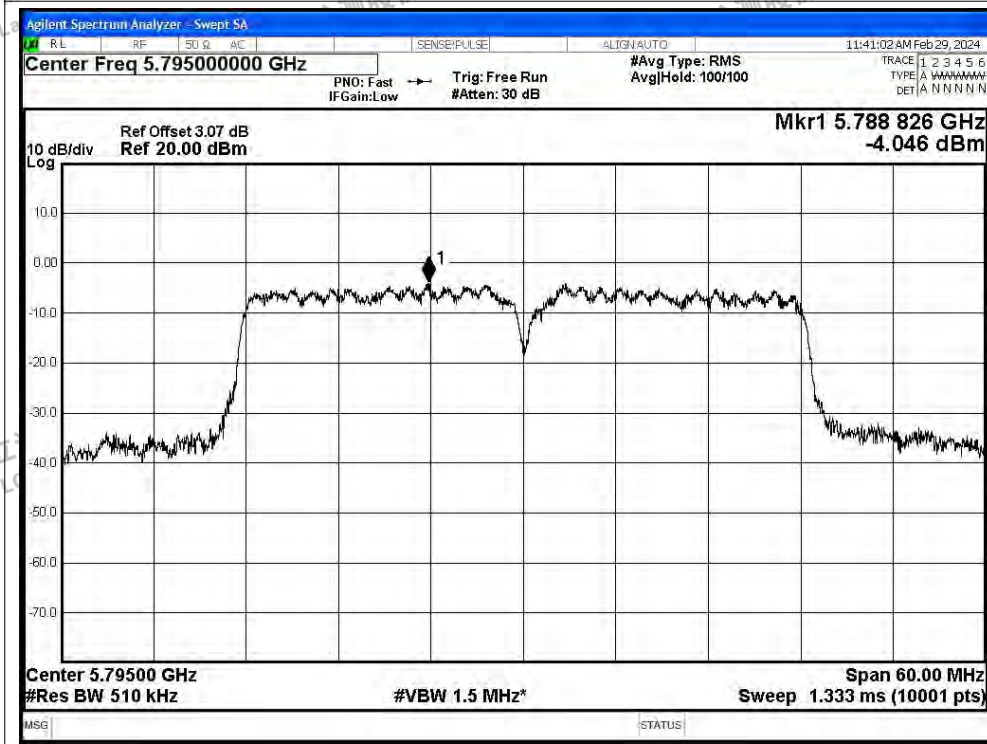




PSD NVNT n40 5755MHz Ant1

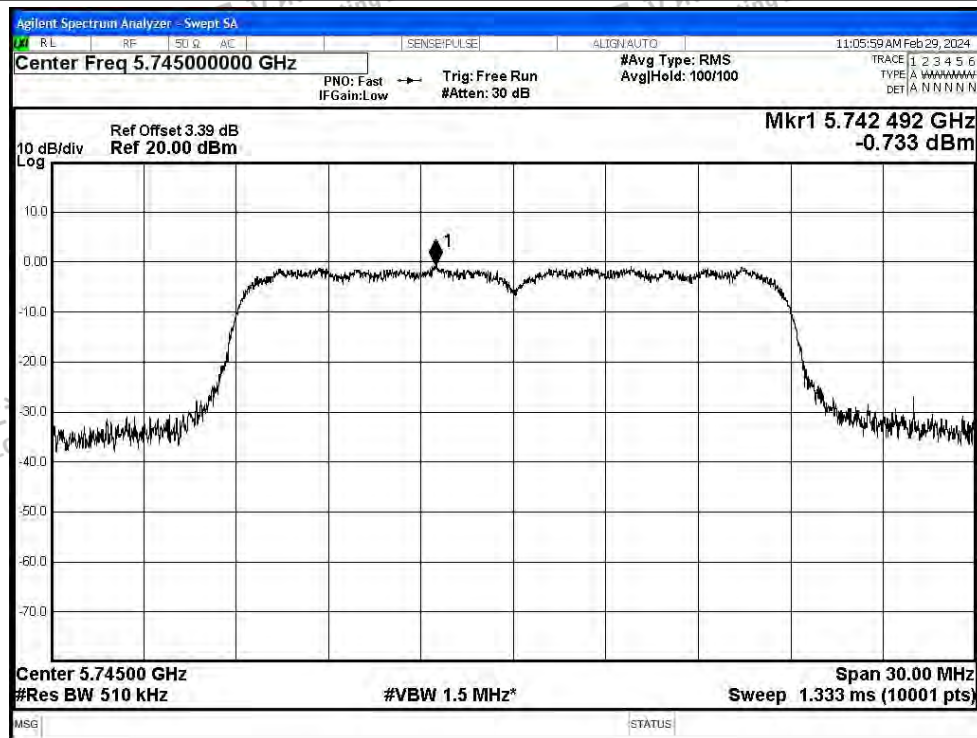


PSD NVNT n40 5795MHz Ant1

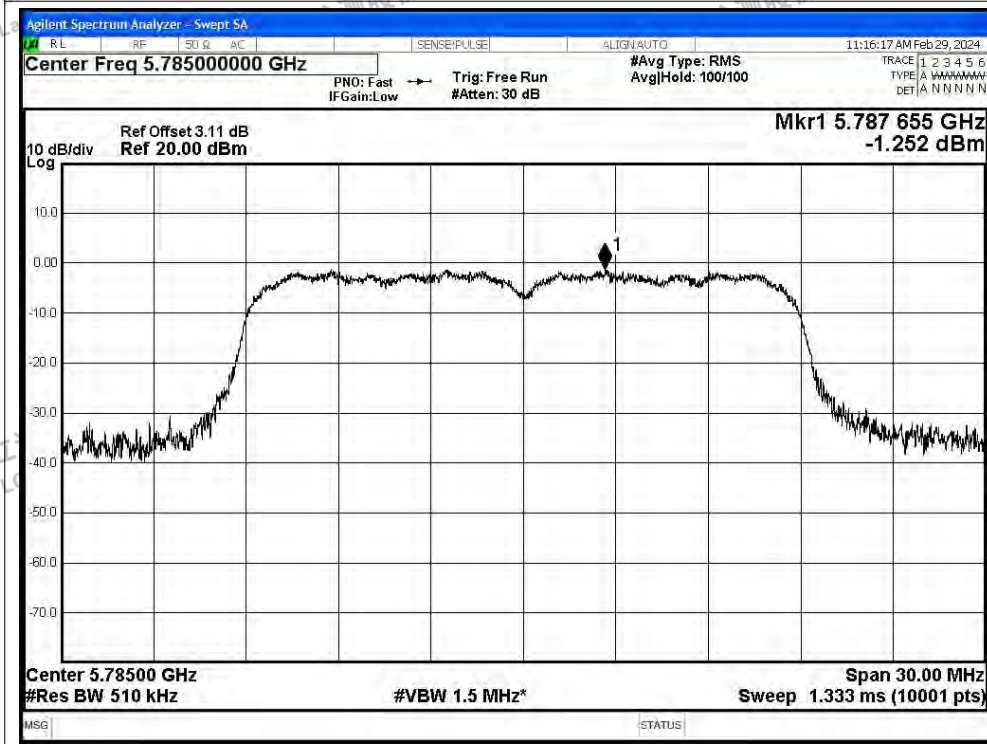




PSD NVNT ac20 5745MHz Ant1

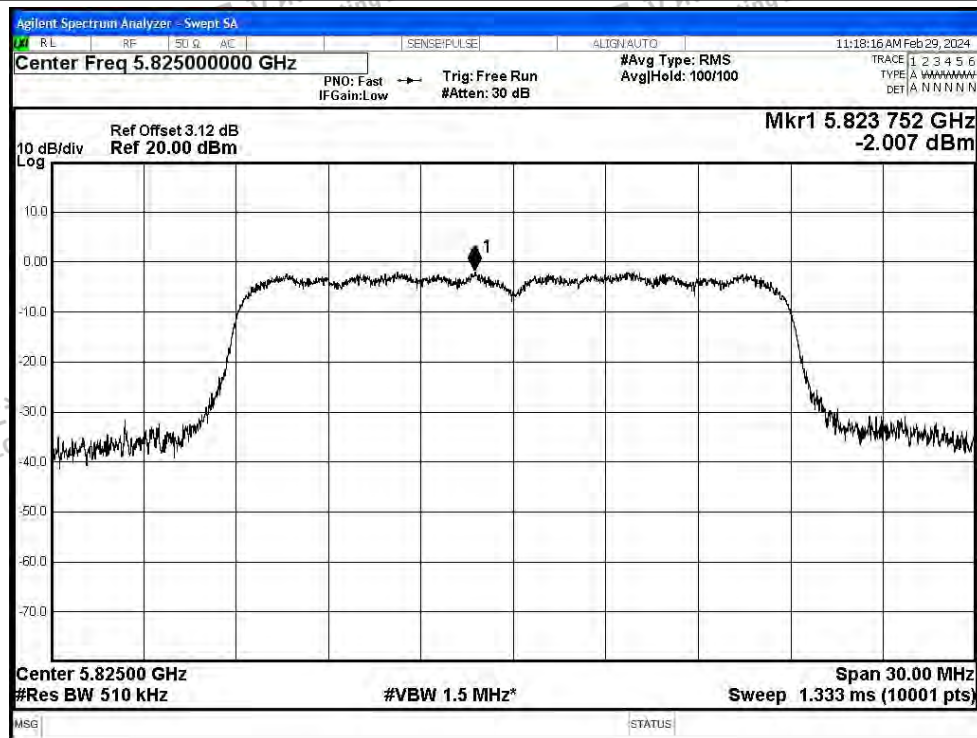


PSD NVNT ac20 5785MHz Ant1

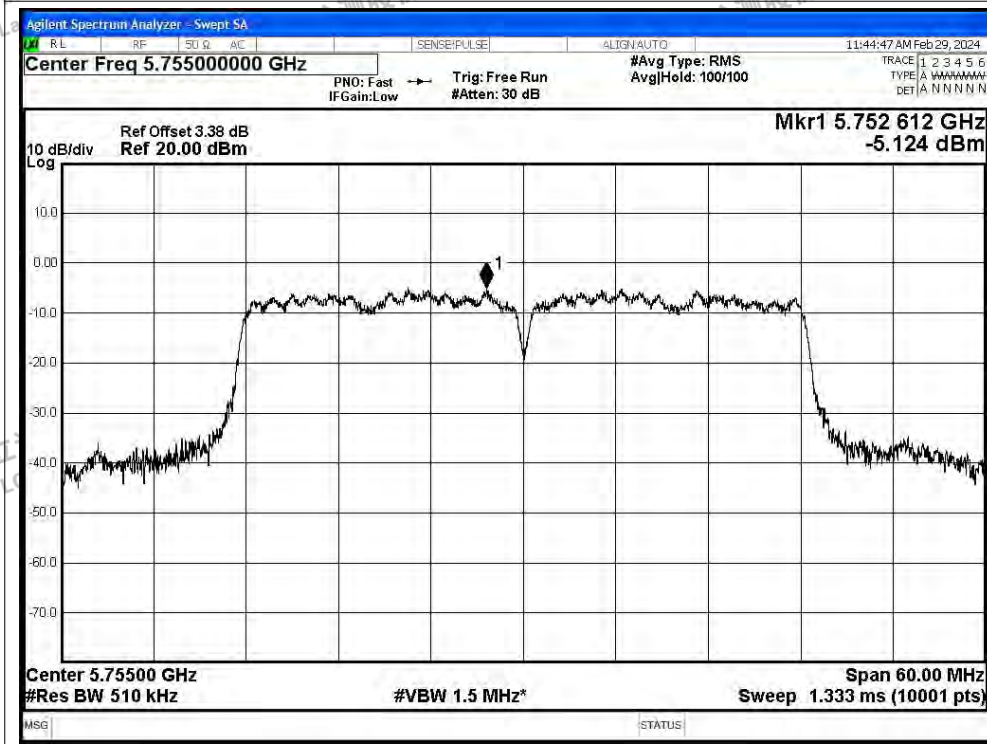




PSD NVNT ac20 5825MHz Ant1

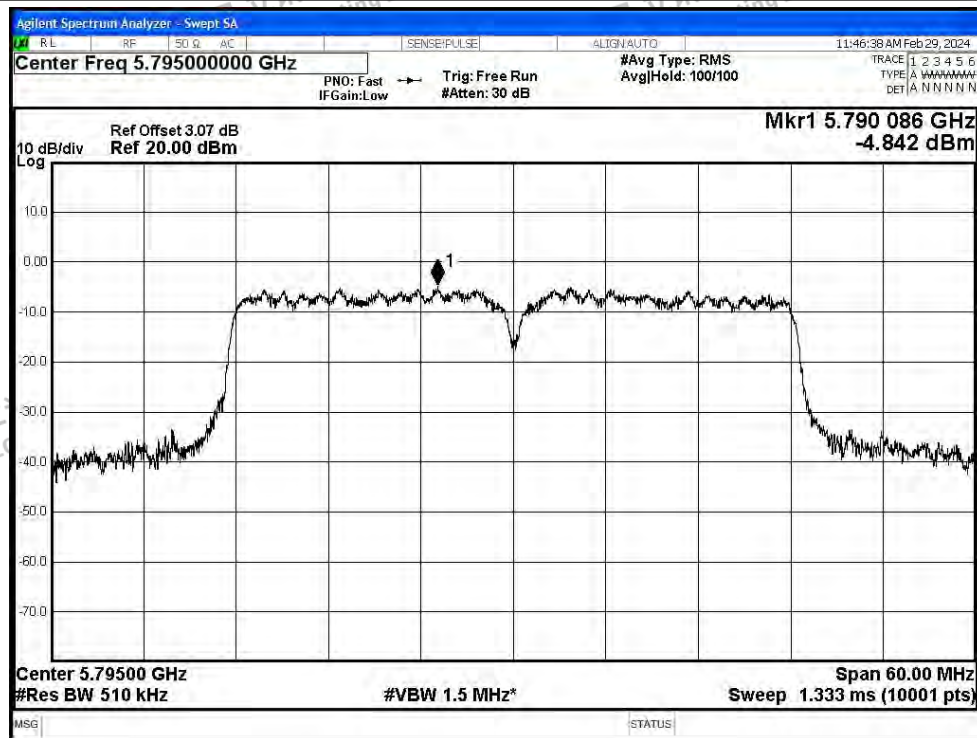


PSD NVNT ac40 5755MHz Ant1

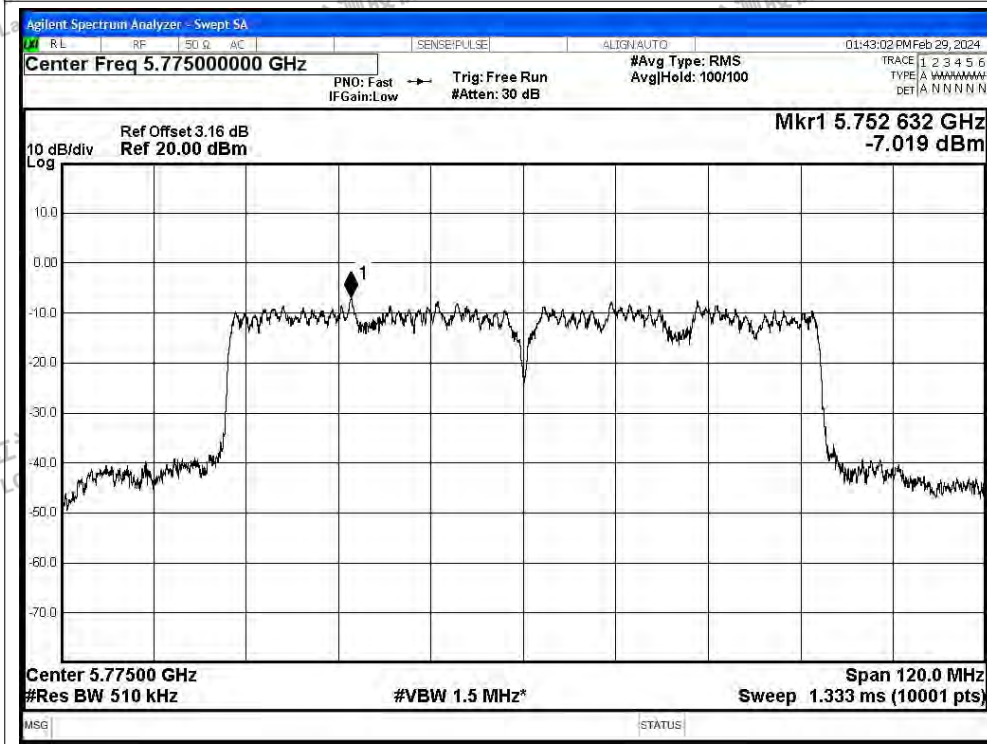




PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1





G.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	-49.46	4.94	-	-44.52	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-57.25	4.94	1.88	-52.31	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-45.78	4.94	-	-40.84	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-54.14	4.94	1.88	-49.2	Average	10	Pass
NVNT	a	5745	Ant1	5720	-32.53	4.94	-	-27.59	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-47.45	4.94	1.88	-42.51	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-27.1	4.94	-	-22.16	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-40.27	4.94	1.88	-35.33	Average	27	Pass
NVNT	a	5825	Ant1	5850	-36.19	4.94	-	-31.25	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-47.85	4.94	1.88	-42.91	Average	27	Pass
NVNT	a	5825	Ant1	5855	-39.88	4.94	-	-34.94	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-52.15	4.94	1.88	-47.21	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-46.22	4.94	-	-41.28	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-55.43	4.94	1.88	-50.49	Average	10	Pass
NVNT	a	5825	Ant1	5925	-46.9	4.94	-	-41.96	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-56.51	4.94	1.88	-51.57	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-47.79	4.94	-	-42.85	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-56.97	4.94	1.86	-52.03	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-43.05	4.94	-	-38.11	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-53.68	4.94	1.86	-48.74	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-28.68	4.94	-	-23.74	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-44.86	4.94	1.86	-39.92	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-22.96	4.94	-	-18.02	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-39.6	4.94	1.86	-34.66	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-31.44	4.94	-	-26.5	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-44.19	4.94	1.86	-39.25	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-30.44	4.94	-	-25.5	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-49.2	4.94	1.86	-44.26	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-45.67	4.94	-	-40.73	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-54.76	4.94	1.86	-49.82	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-47.49	4.94	-	-42.55	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-56.13	4.94	1.86	-51.19	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-49.34	4.94	-	-44.4	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-56.87	4.94	2.59	-51.93	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-39.74	4.94	-	-34.8	Peak	10	Pass



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NVNT	n40	5755	Ant1	5700	-52.31	4.94	2.59	-47.37	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-26.67	4.94	-	-21.73	Peak	15.6	Pass
NVNT	n40	5755	Ant1	5720	-38.54	4.94	2.59	-33.6	Average	15.6	Pass
NVNT	n40	5755	Ant1	5725	-27.43	4.94	-	-22.49	Peak	27	Pass
NVNT	n40	5755	Ant1	5725	-36.48	4.94	2.59	-31.54	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-40.13	4.94	-	-35.19	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-50.98	4.94	2.59	-46.04	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-40.23	4.94	-	-35.29	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-52.13	4.94	2.59	-47.19	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-41.53	4.94	-	-36.59	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-56.81	4.94	2.59	-51.87	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-50.04	4.94	-	-45.1	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-57.5	4.94	2.59	-52.56	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-50.48	4.94	-	-45.54	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-57.54	4.94	1.8	-52.6	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-44.16	4.94	-	-39.22	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-54.51	4.94	1.8	-49.57	Average	10	Pass
NVNT	ac20	5745	Ant1	5720	-26.86	4.94	-	-21.92	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-48.19	4.94	1.8	-43.25	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-24.71	4.94	-	-19.77	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-37.13	4.94	1.8	-32.19	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-31.58	4.94	-	-26.64	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-46.78	4.94	1.8	-41.84	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-38.64	4.94	-	-33.7	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-50.59	4.94	1.8	-45.65	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-47.08	4.94	-	-42.14	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-55.58	4.94	1.8	-50.64	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-49.33	4.94	-	-44.39	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-56.44	4.94	1.8	-51.5	Average	-27	Pass
NVNT	ac40	5755	Ant1	5650	-47.7	4.94	-	-42.76	Peak	-27	Pass
NVNT	ac40	5755	Ant1	5650	-57.34	4.94	2.4	-52.4	Average	-27	Pass
NVNT	ac40	5755	Ant1	5700	-42.19	4.94	-	-37.25	Peak	10	Pass
NVNT	ac40	5755	Ant1	5700	-53.58	4.94	2.4	-48.64	Average	10	Pass
NVNT	ac40	5755	Ant1	5720	-29.18	4.94	-	-24.24	Peak	15.6	Pass
NVNT	ac40	5755	Ant1	5720	-41.37	4.94	2.4	-36.43	Average	15.6	Pass
NVNT	ac40	5755	Ant1	5725	-20.69	4.94	-	-15.75	Peak	27	Pass
NVNT	ac40	5755	Ant1	5725	-37.8	4.94	2.4	-32.86	Average	27	Pass
NVNT	ac40	5795	Ant1	5850	-40.48	4.94	-	-35.54	Peak	27	Pass
NVNT	ac40	5795	Ant1	5850	-54.28	4.94	2.45	-49.34	Average	27	Pass
NVNT	ac40	5795	Ant1	5855	-44.72	4.94	-	-39.78	Peak	15.6	Pass
NVNT	ac40	5795	Ant1	5855	-55.1	4.94	2.45	-50.16	Average	15.6	Pass



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Scan code to check authenticity



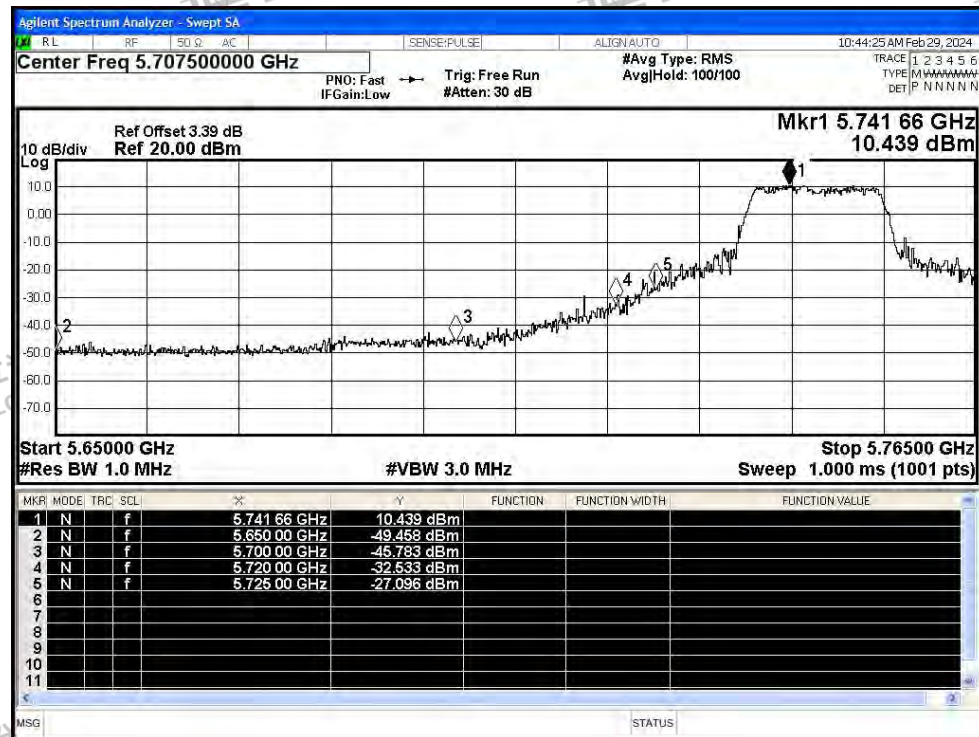
NVNT	ac40	5795	Ant1	5875	-48.33	4.94	-	-43.39	Peak	10	Pass
NVNT	ac40	5795	Ant1	5875	-57.64	4.94	2.45	-52.7	Average	10	Pass
NVNT	ac40	5795	Ant1	5925	-50.29	4.94	-	-45.35	Peak	-27	Pass
NVNT	ac40	5795	Ant1	5925	-57.79	4.94	2.45	-52.85	Average	-27	Pass
NVNT	ac80	5775	Ant1	5650	-46.31	4.94	-	-41.37	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5650	-55.48	4.94	3.01	-50.54	Average	-27	Pass
NVNT	ac80	5775	Ant1	5700	-32.81	4.94	-	-27.87	Peak	10	Pass
NVNT	ac80	5775	Ant1	5700	-44.45	4.94	3.01	-39.51	Average	10	Pass
NVNT	ac80	5775	Ant1	5720	-26.37	4.94	-	-21.43	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5720	-41.6	4.94	3.01	-36.66	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5725	-23.5	4.94	-	-18.56	Peak	27	Pass
NVNT	ac80	5775	Ant1	5725	-39.91	4.94	3.01	-34.97	Average	27	Pass
NVNT	ac80	5775	Ant1	5850	-28.94	4.94	-	-24	Peak	27	Pass
NVNT	ac80	5775	Ant1	5850	-42.98	4.94	3.01	-38.04	Average	27	Pass
NVNT	ac80	5775	Ant1	5855	-32.39	4.94	-	-27.45	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5855	-44.96	4.94	3.01	-40.02	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5875	-37.07	4.94	-	-32.13	Peak	10	Pass
NVNT	ac80	5775	Ant1	5875	-51.12	4.94	3.01	-46.18	Average	10	Pass
NVNT	ac80	5775	Ant1	5925	-49.53	4.94	-	-44.59	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5925	-57.7	4.94	3.01	-52.76	Average	-27	Pass



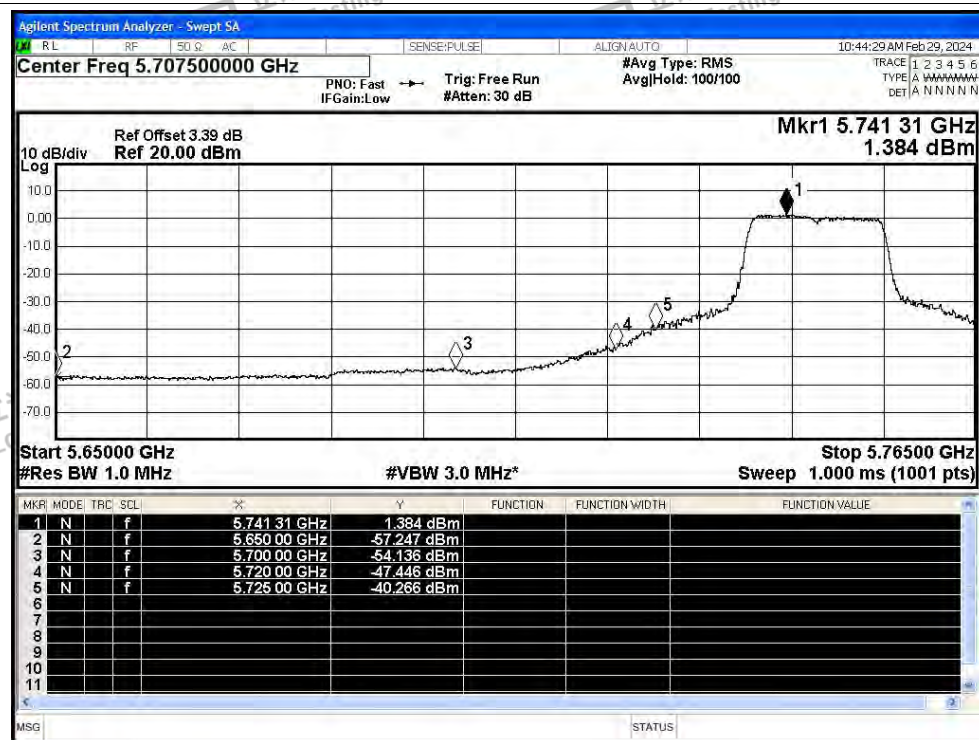


Test Graphs

Restrict Band NVNT a 5745MHz Peak

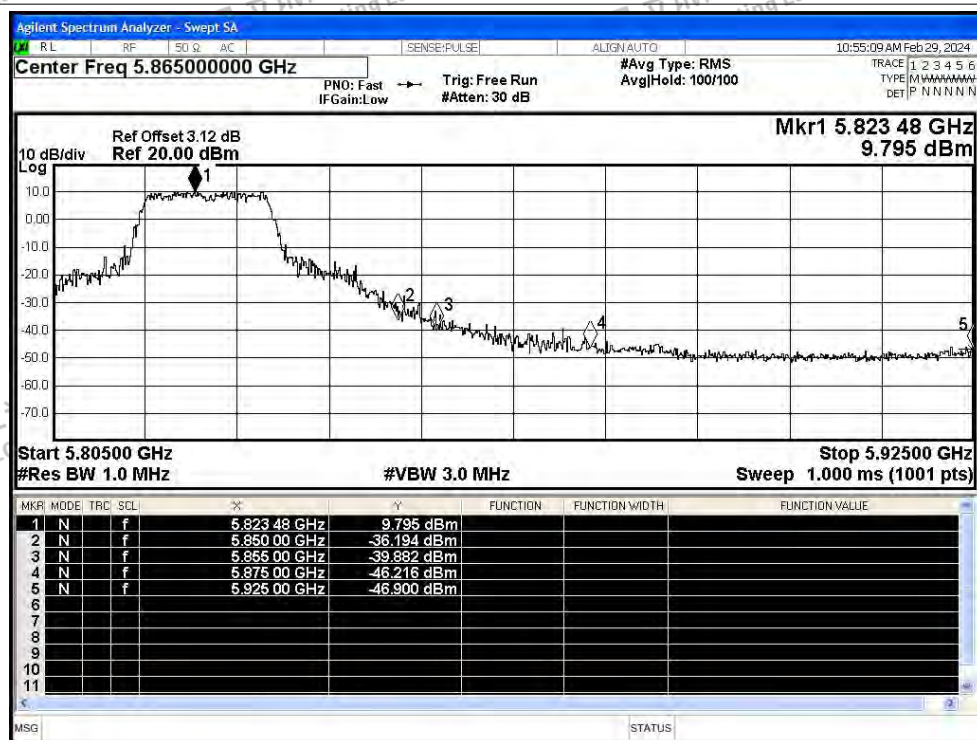


Restrict Band NVNT a 5745MHz Average

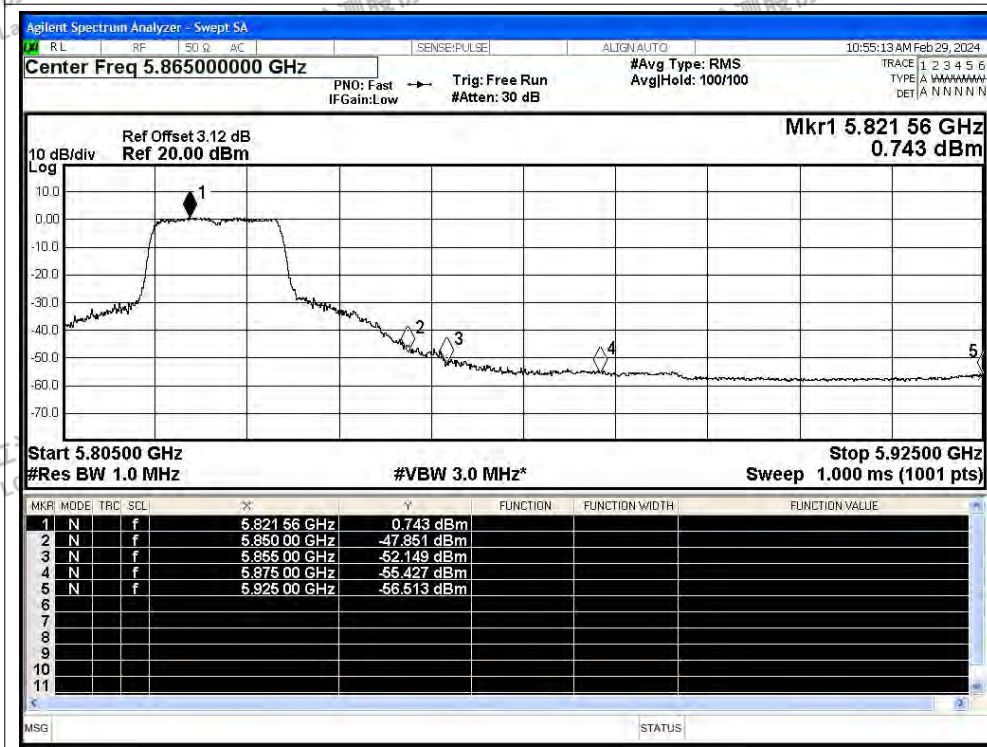




Restrict Band NVNT a 5825MHz Peak



Restrict Band NVNT a 5825MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

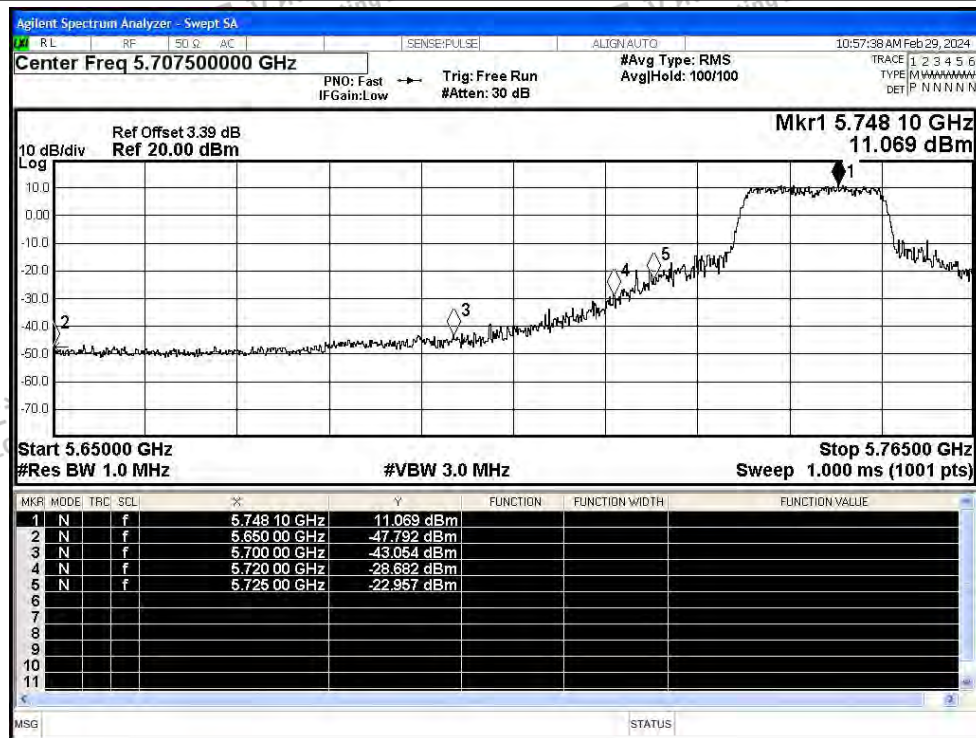
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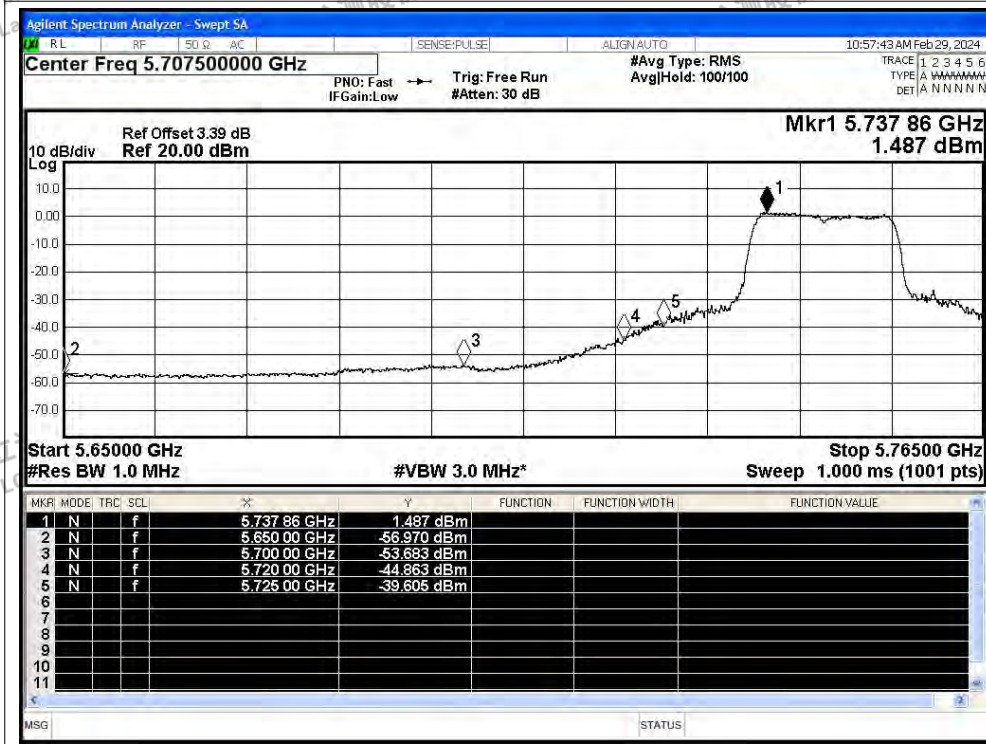
Scan code to check authenticity



Restrict Band NVNT n20 5745MHz Peak

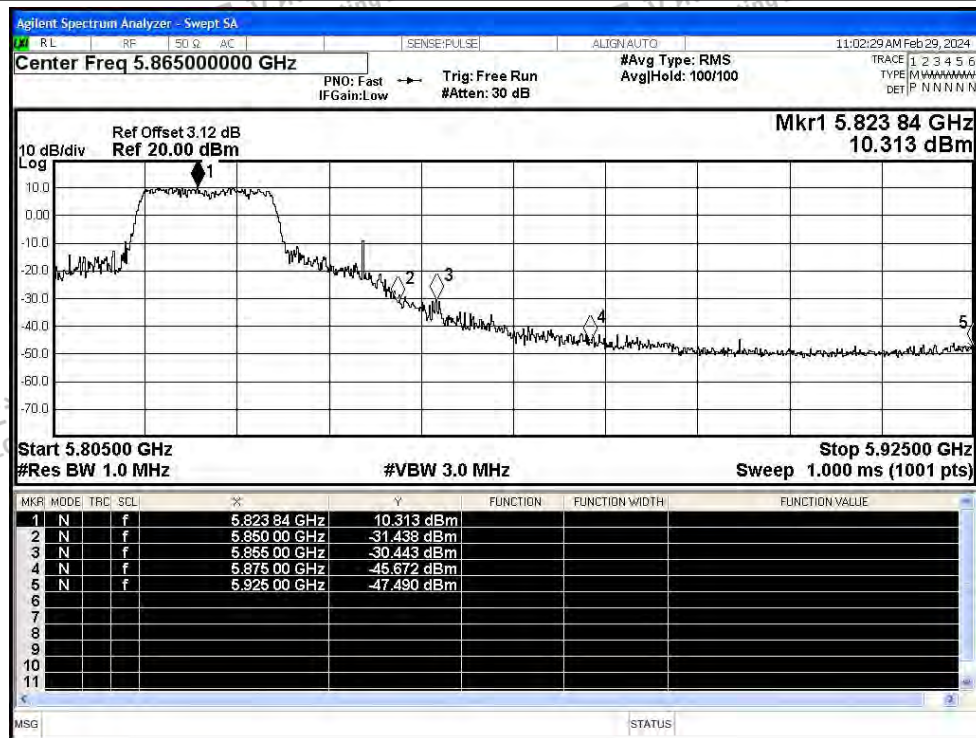


Restrict Band NVNT n20 5745MHz Average

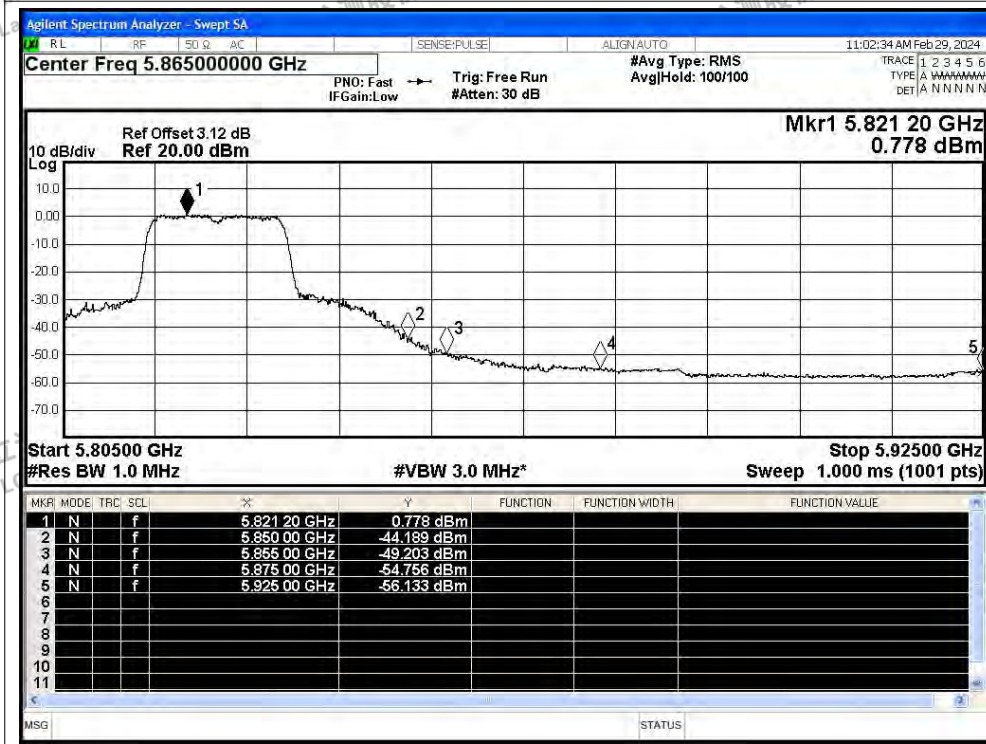




Restrict Band NVNT n20 5825MHz Peak



Restrict Band NVNT n20 5825MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

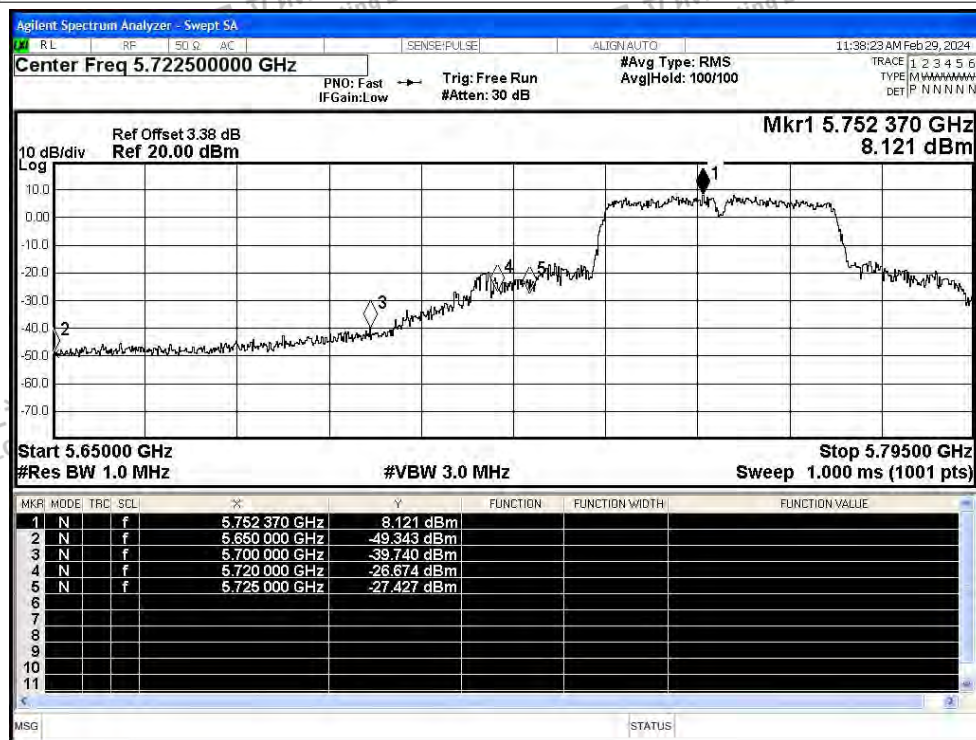
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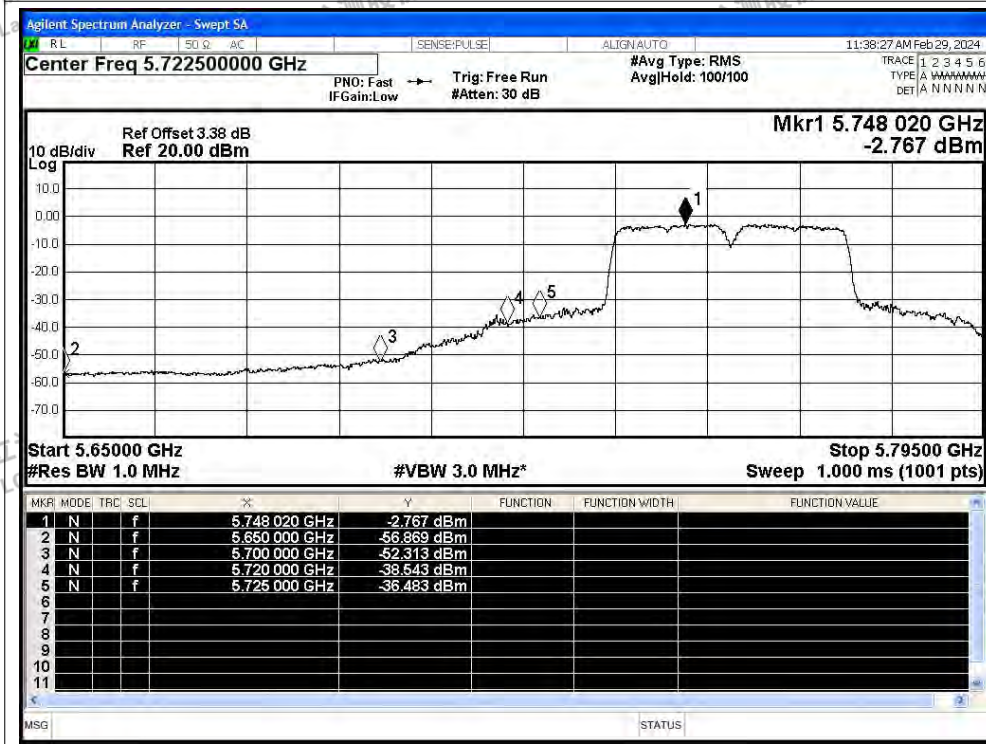
Scan code to check authenticity



Restrict Band NVNT n40 5755MHz Peak

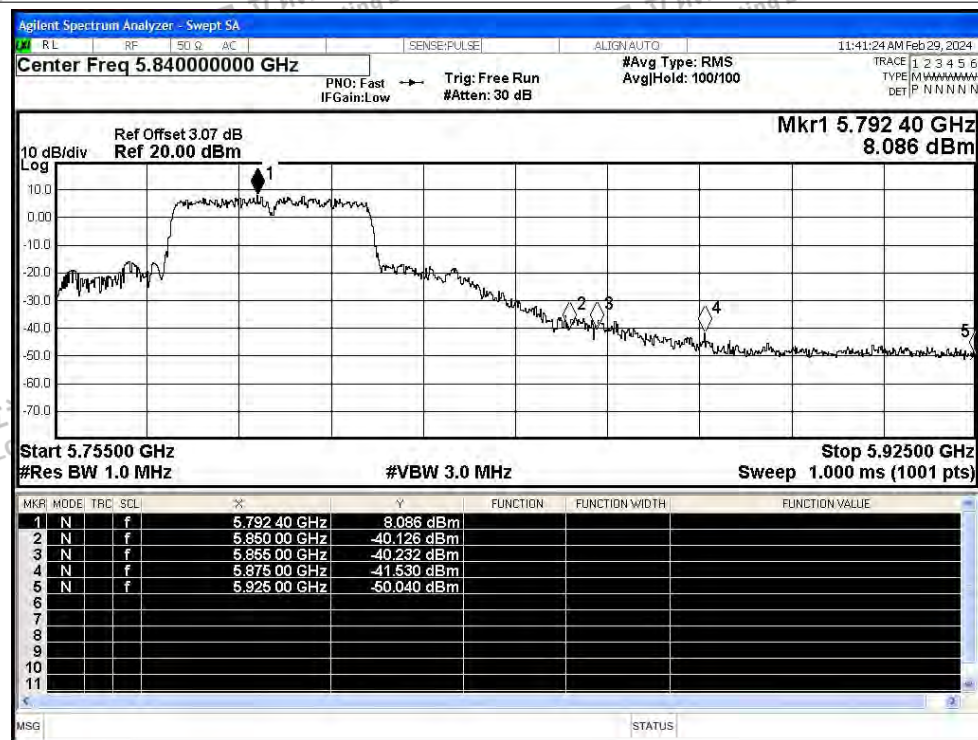


Restrict Band NVNT n40 5755MHz Average

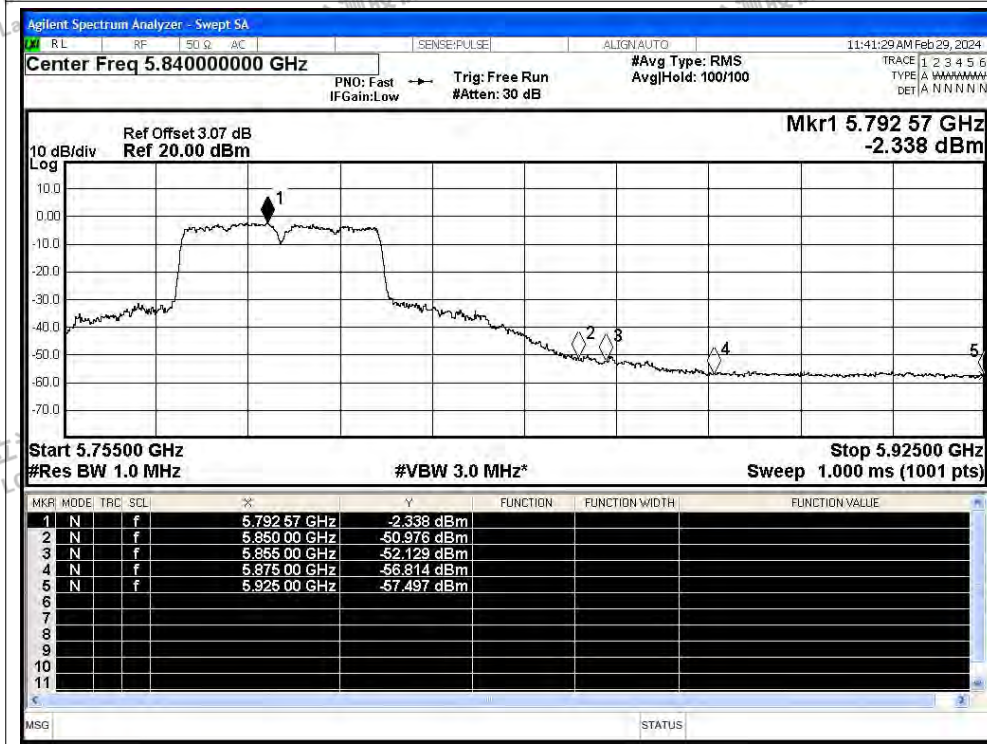




Restrict Band NVNT n40 5795MHz Peak

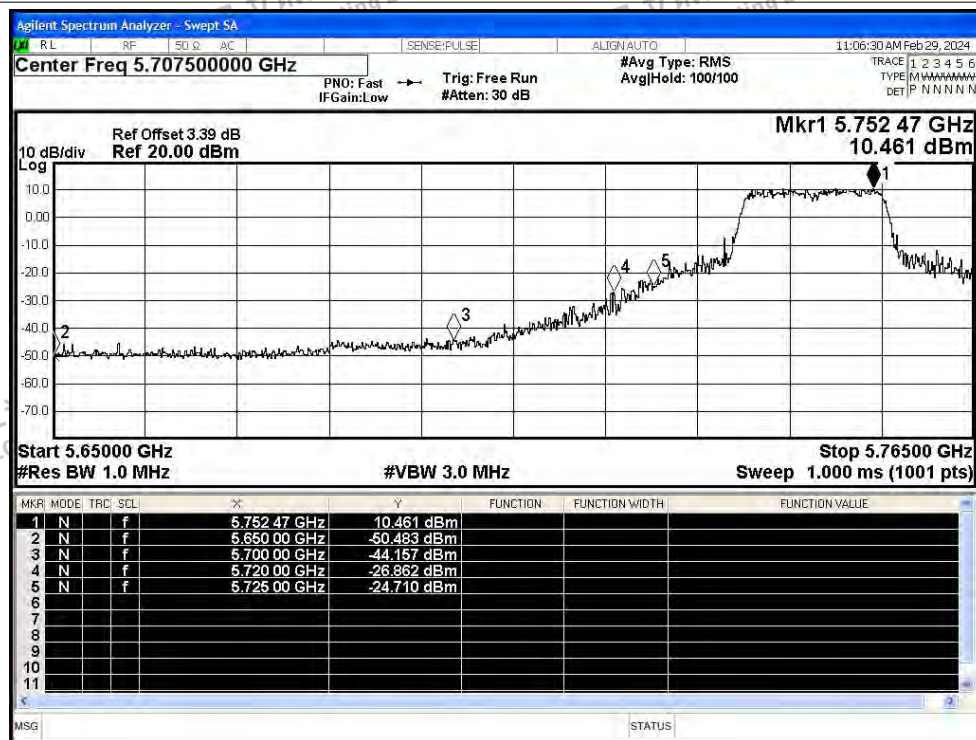


Restrict Band NVNT n40 5795MHz Average

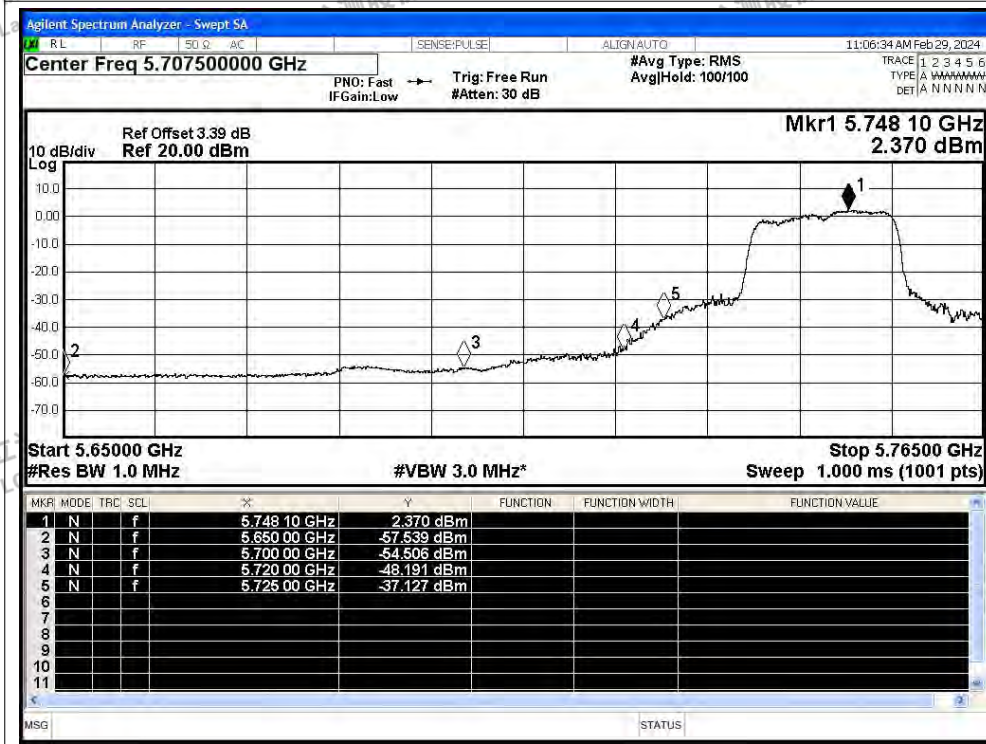




Restrict Band NVNT ac20 5745MHz Peak

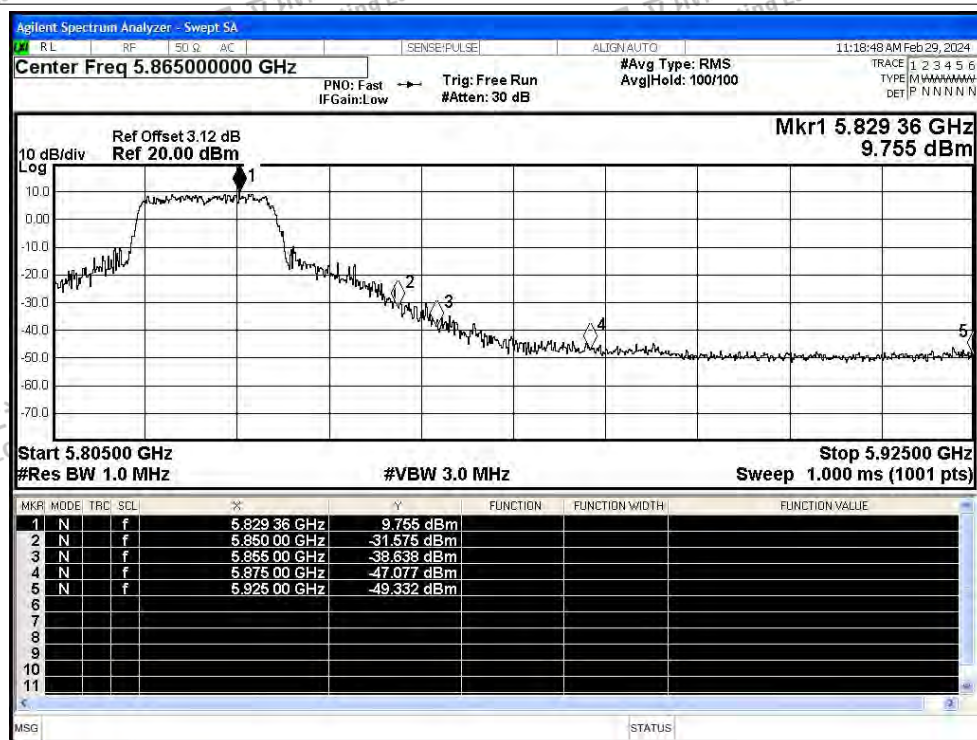


Restrict Band NVNT ac20 5745MHz Average

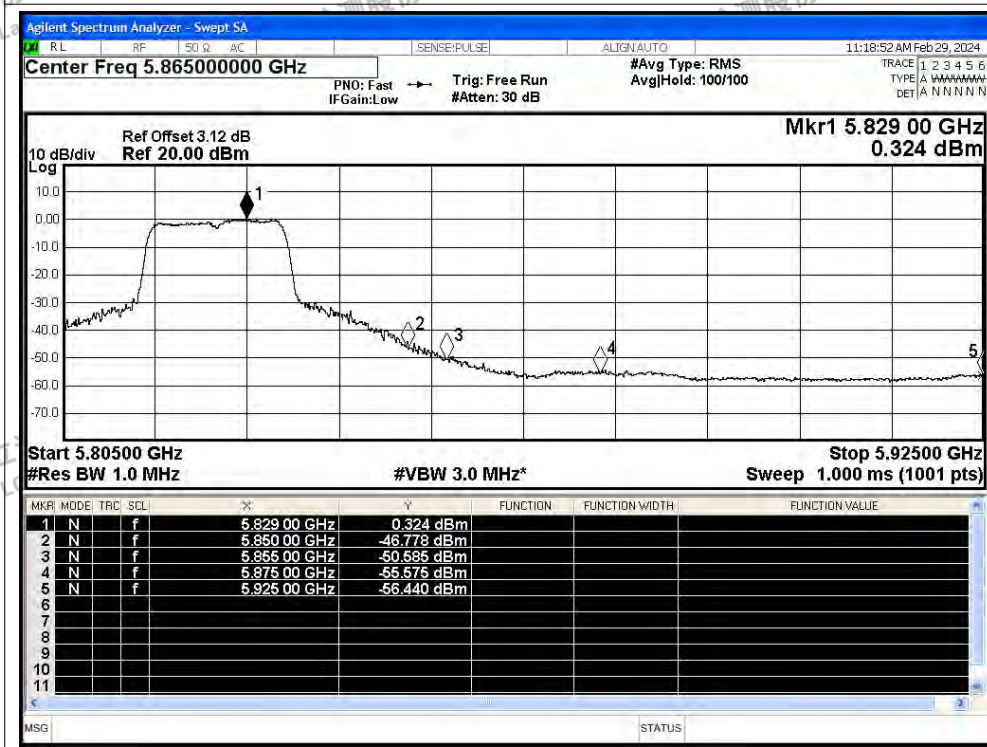




Restrict Band NVNT ac20 5825MHz Peak



Restrict Band NVNT ac20 5825MHz Average



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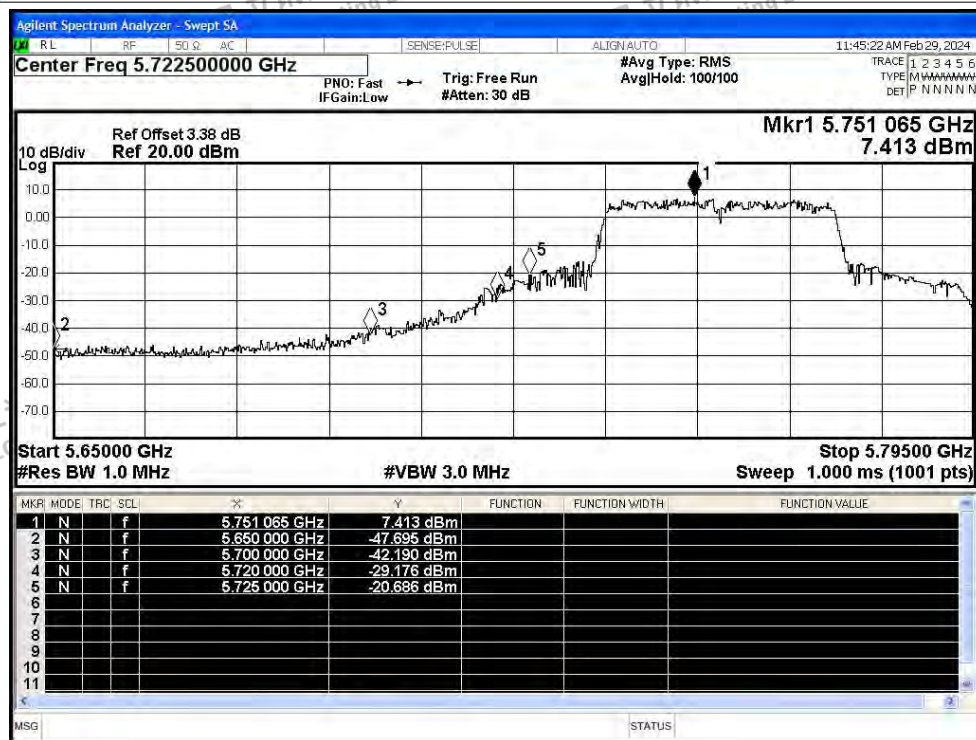
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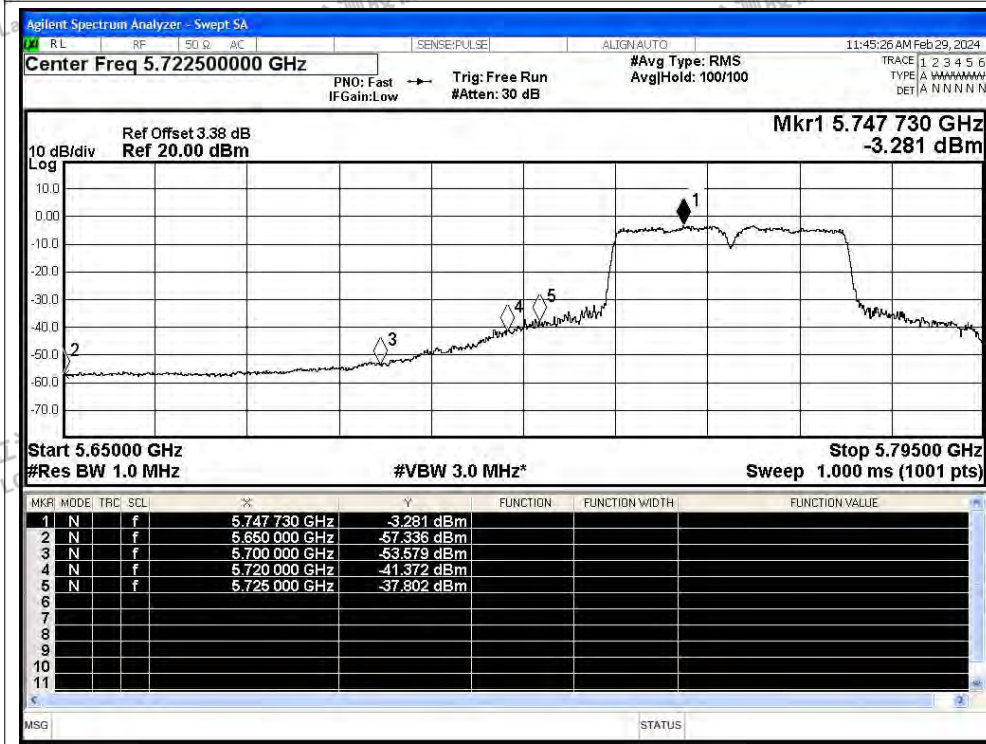
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Restrict Band NVNT ac40 5755MHz Peak

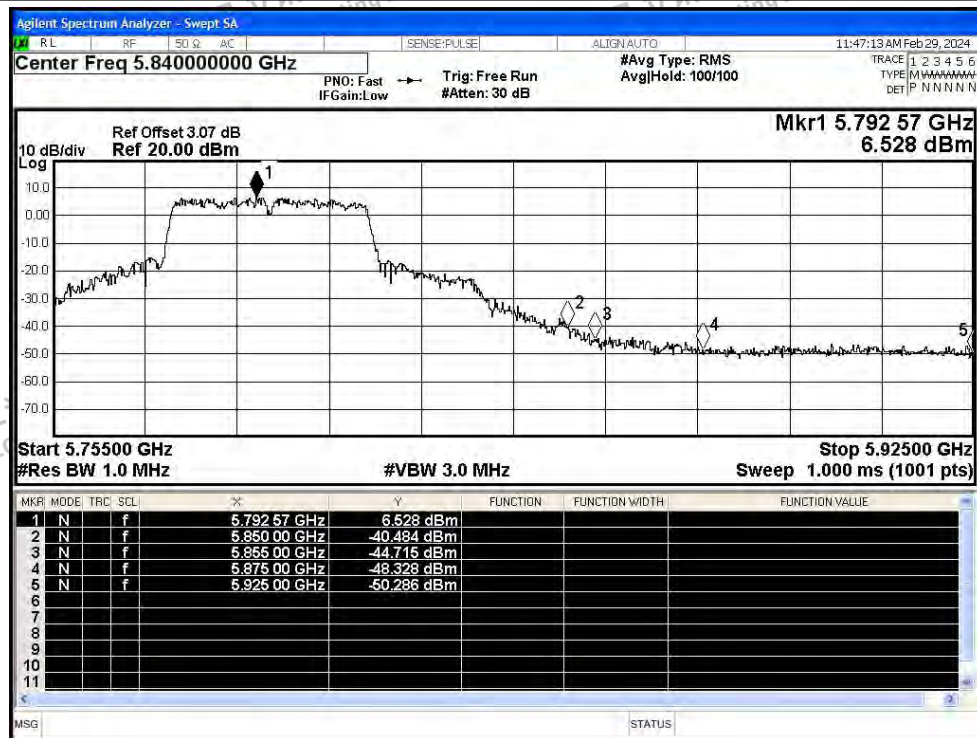


Restrict Band NVNT ac40 5755MHz Average

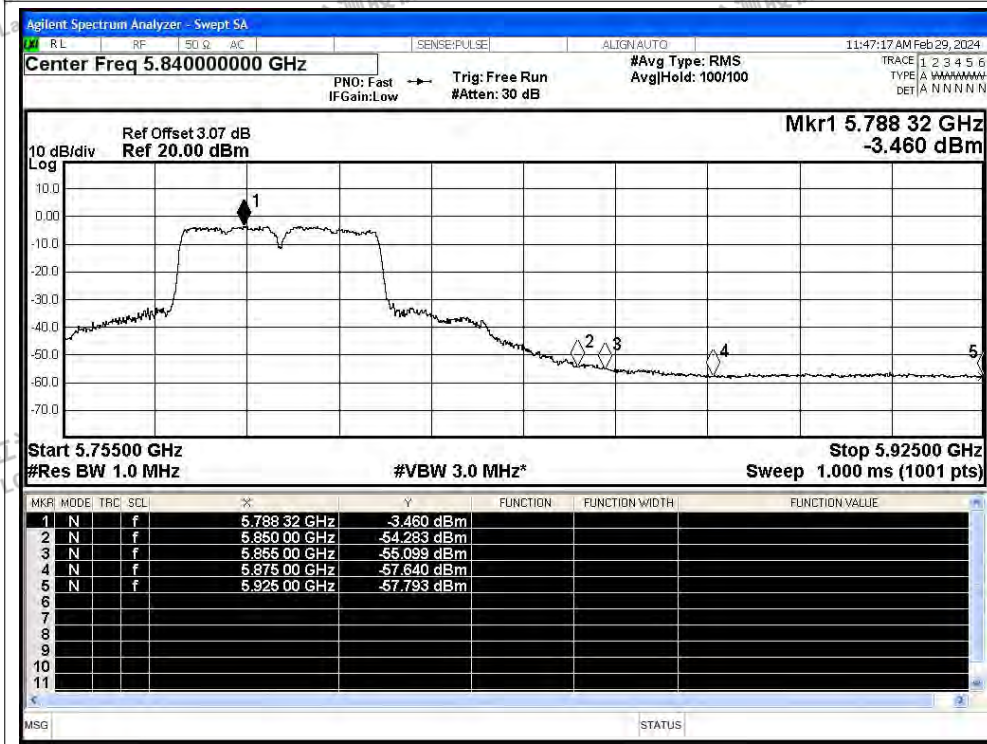




Restrict Band NVNT ac40 5795MHz Peak

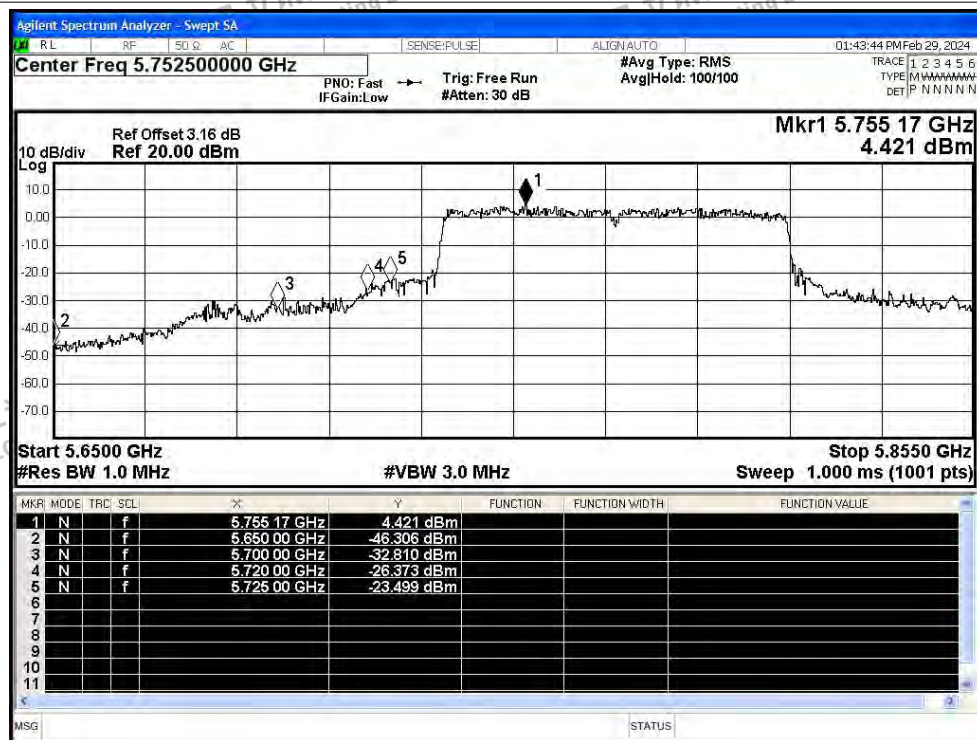


Restrict Band NVNT ac40 5795MHz Average

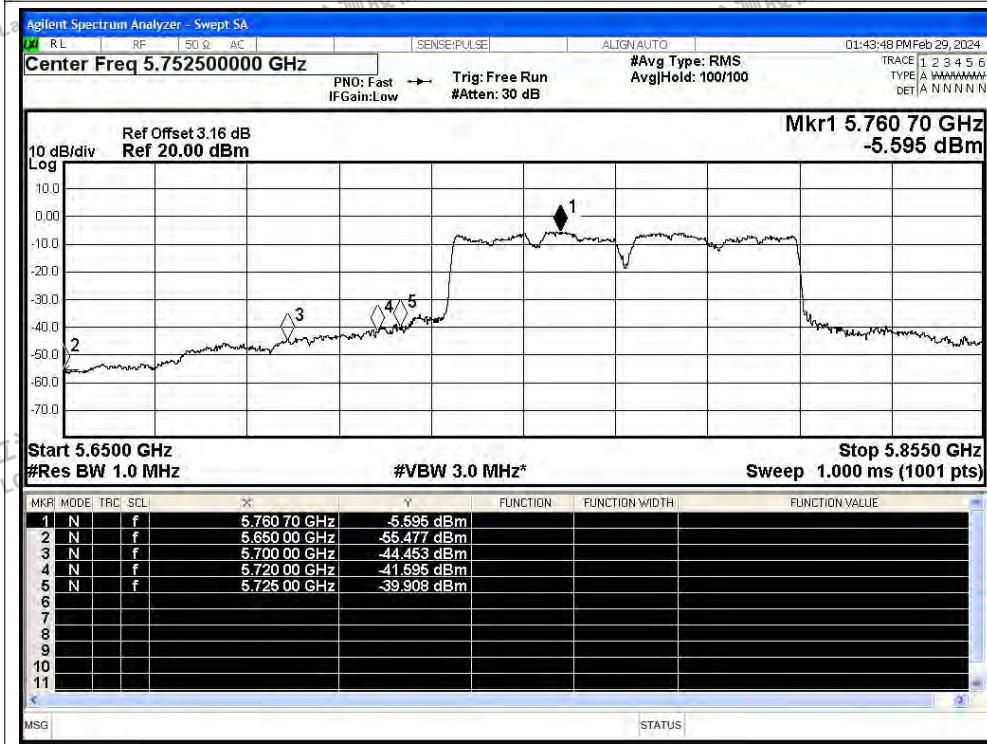




Restrict Band NVNT ac80 5775MHz Peak

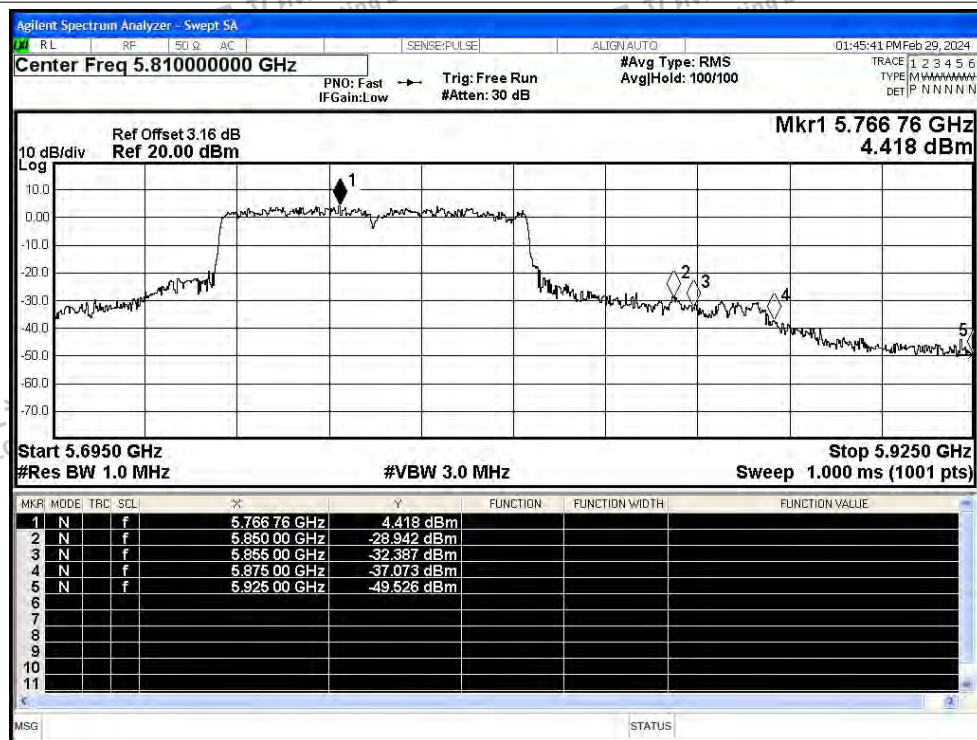


Restrict Band NVNT ac80 5775MHz Average

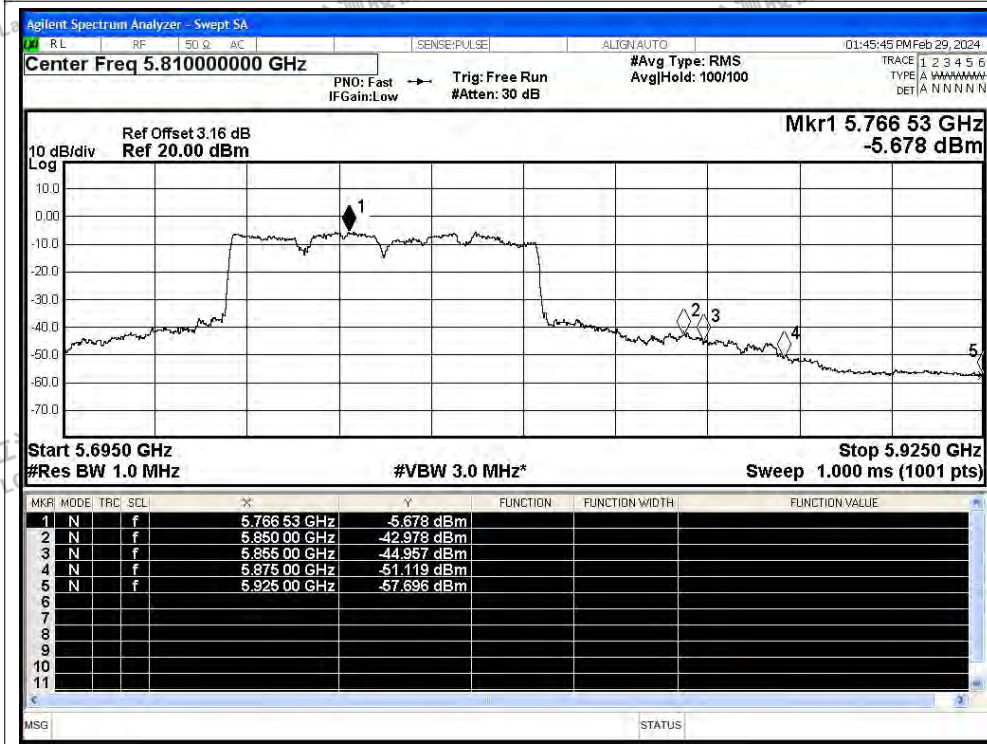




Restrict Band NVNT ac80 5775MHz Peak



Restrict Band NVNT ac80 5775MHz Average





G.5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	ac20	5745	Ant1	5745	0	0	25	Pass
NVNT	ac20	5785	Ant1	5785	0	0	25	Pass
NVNT	ac20	5825	Ant1	5824.98	-20000	-3.43	25	Pass
NVNT	ac40	5755	Ant1	5755	0	0	25	Pass
NVNT	ac40	5795	Ant1	5794.96	-40000	-6.9	25	Pass
NVNT	ac80	5775	Ant1	5774.92	-80000	-13.85	25	Pass

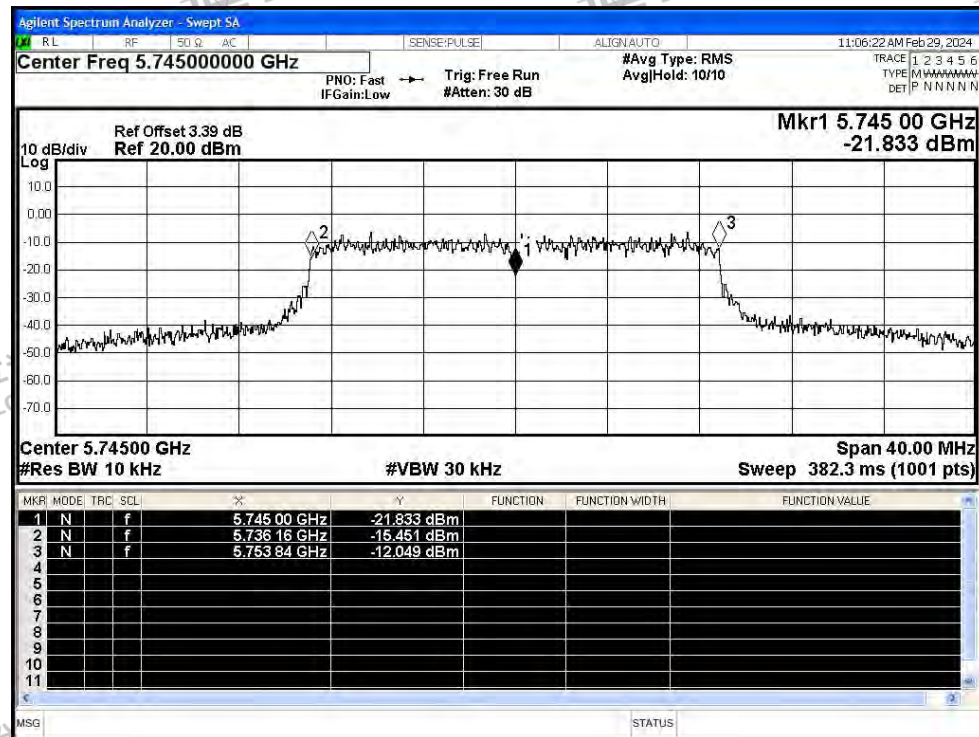


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518000, China
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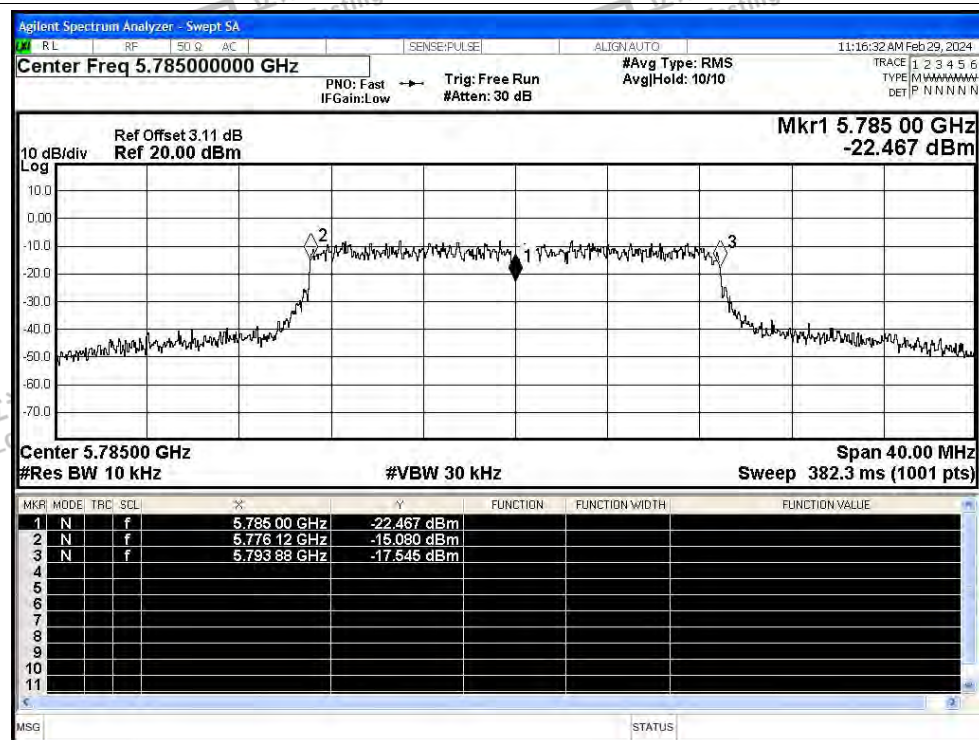


Test Graphs

Freq. Stability NVNT ac20 5745MHz Ant1



Freq. Stability NVNT ac20 5785MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

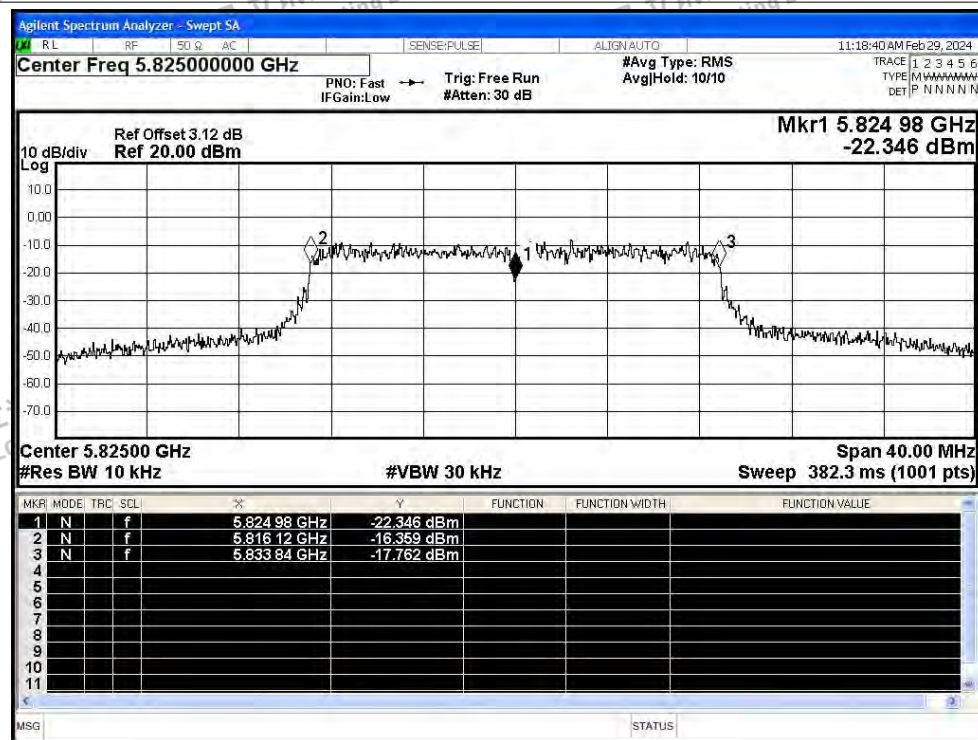
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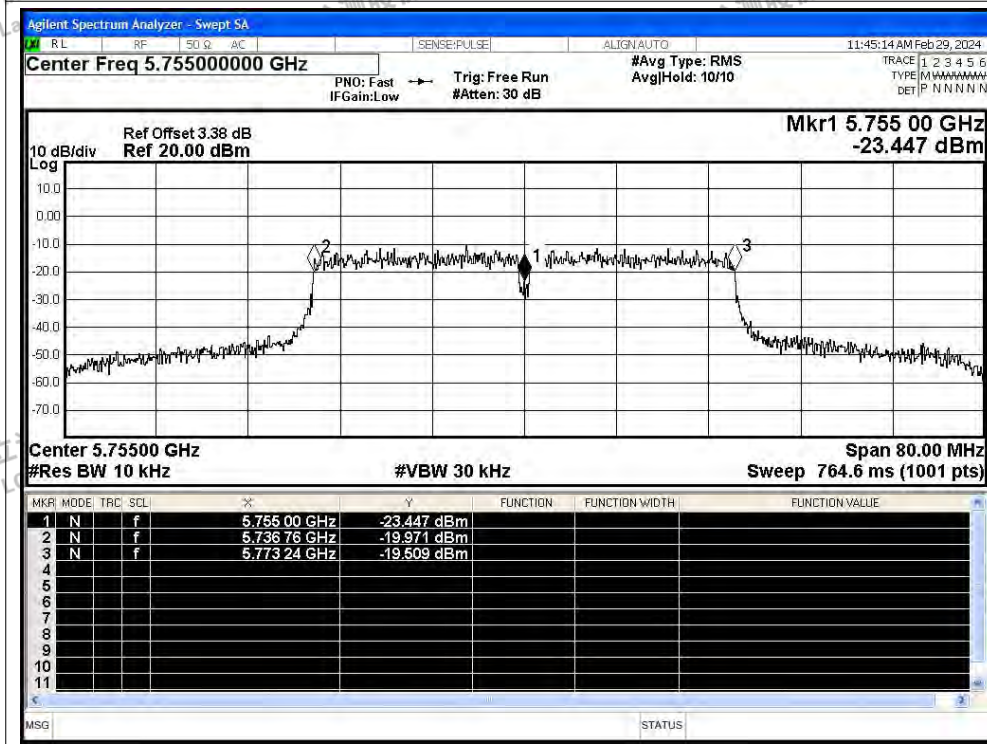
Scan code to check authenticity



Freq. Stability NVNT ac20 5825MHz Ant1



Freq. Stability NVNT ac40 5755MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

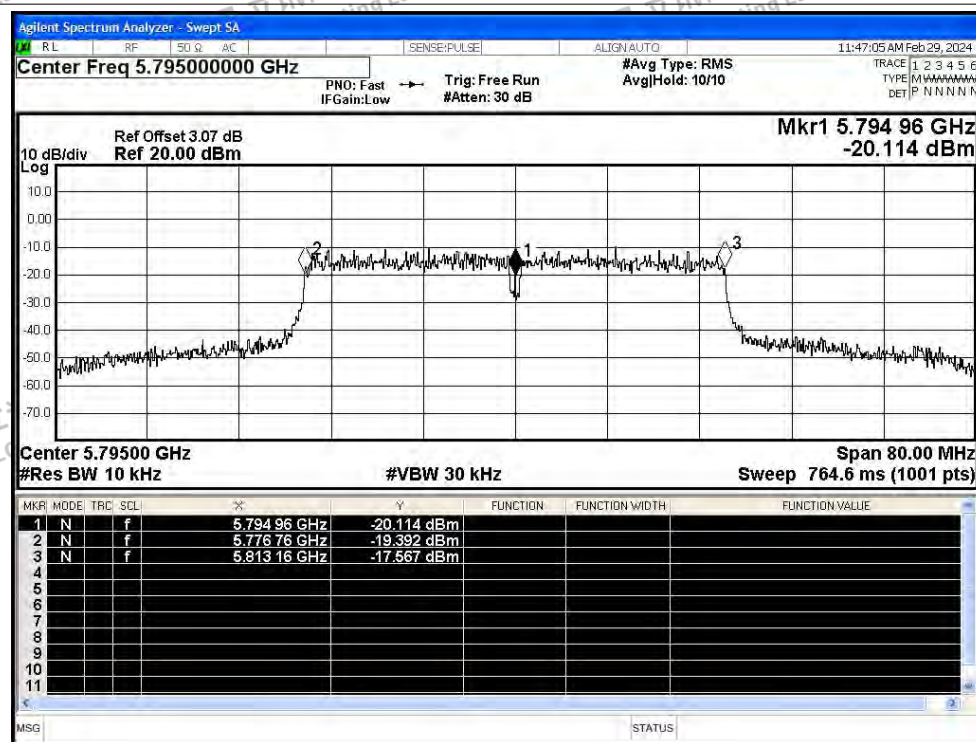
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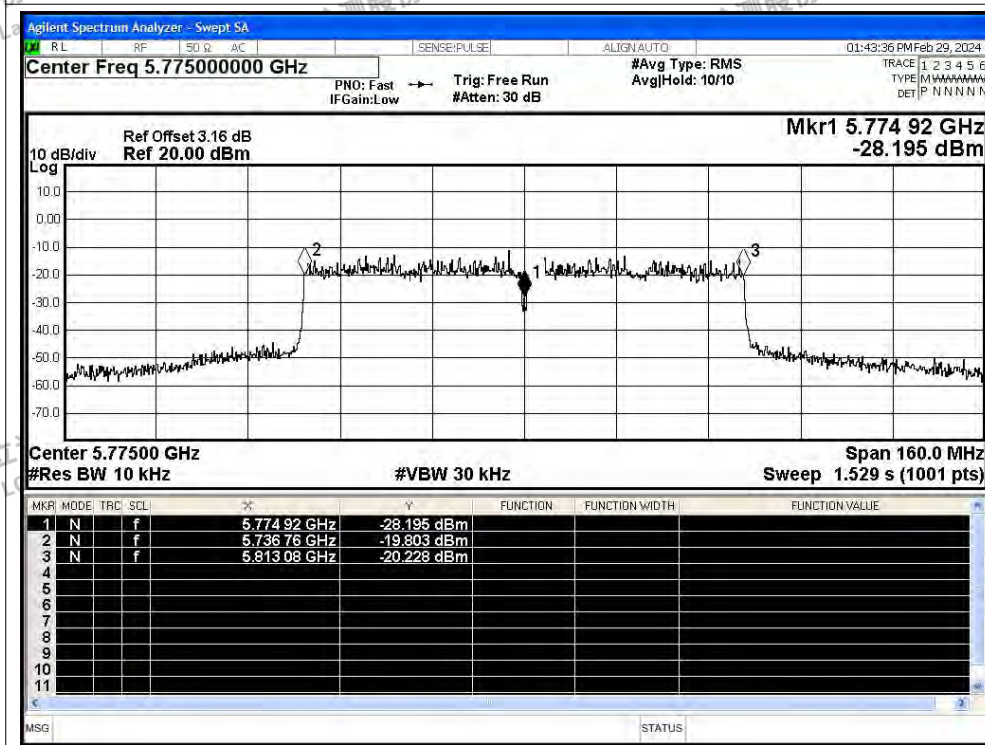
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Freq. Stability NVNT ac40 5795MHz Ant1



Freq. Stability NVNT ac80 5775MHz Ant1



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G.6 Duty Cycle

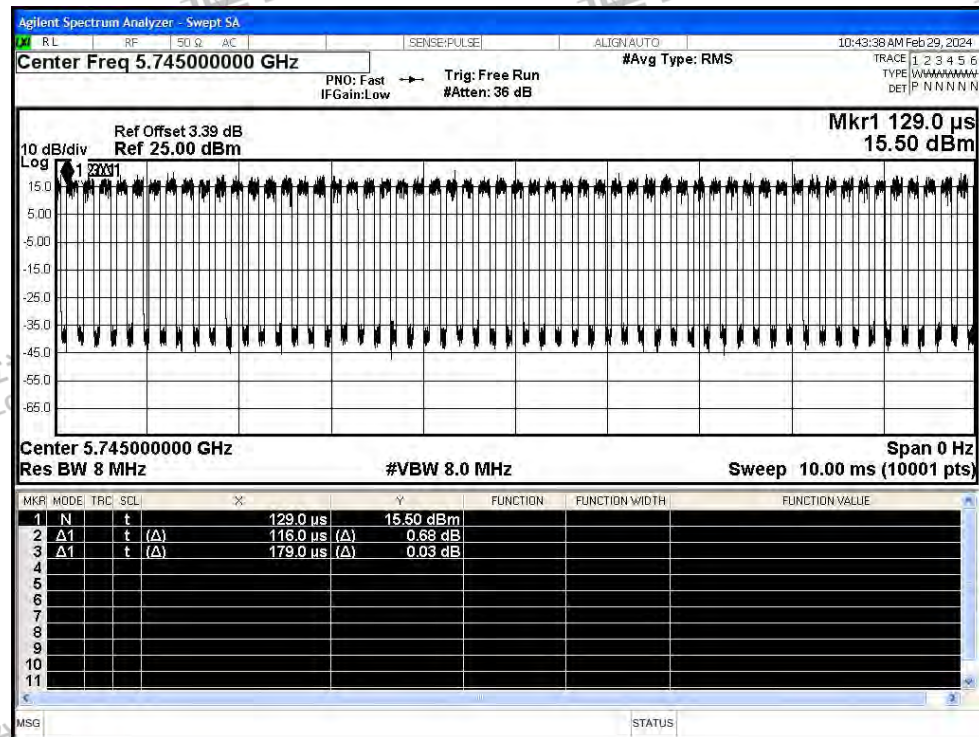
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	64.8	1.88	8.62
NVNT	a	5785	Ant1	65.36	1.85	8.55
NVNT	a	5825	Ant1	64.8	1.88	8.62
NVNT	n20	5745	Ant1	65.17	1.86	8.62
NVNT	n20	5785	Ant1	65.17	1.86	8.62
NVNT	n20	5825	Ant1	65.17	1.86	8.62
NVNT	n40	5755	Ant1	55.07	2.59	13.16
NVNT	n40	5795	Ant1	55.07	2.59	13.16
NVNT	ac20	5745	Ant1	66.13	1.8	8.13
NVNT	ac20	5785	Ant1	66.13	1.8	8.13
NVNT	ac20	5825	Ant1	66.13	1.8	8.13
NVNT	ac40	5755	Ant1	57.53	2.4	11.9
NVNT	ac40	5795	Ant1	56.85	2.45	12.05
NVNT	ac80	5775	Ant1	50	3.01	16.13



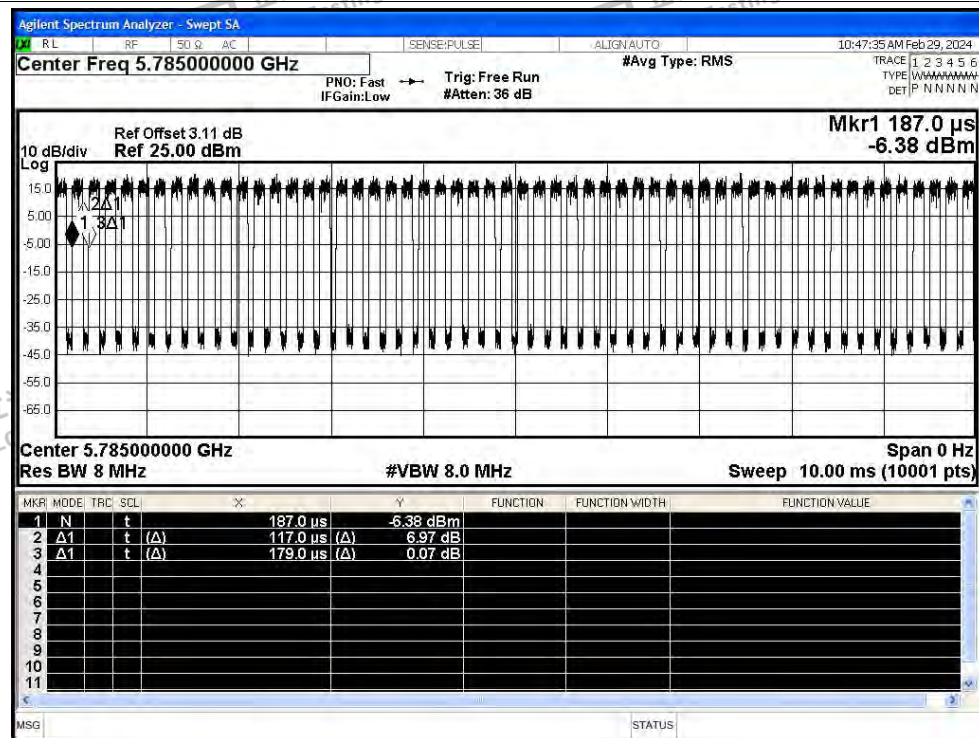


Test Graphs

Duty Cycle NVNT a 5745MHz Ant1

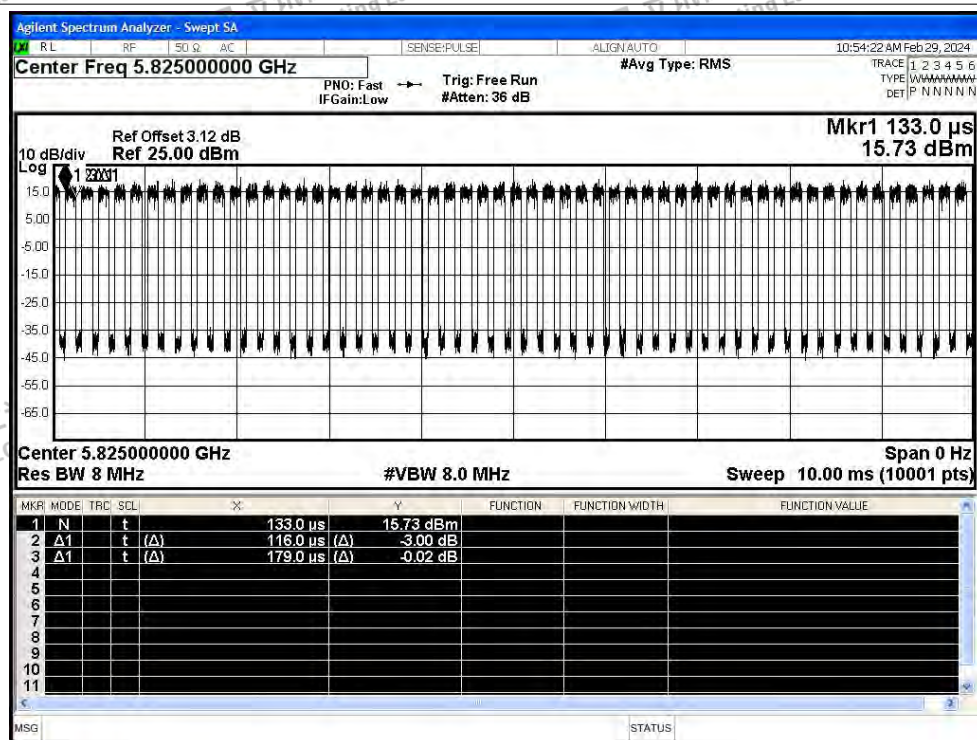


Duty Cycle NVNT a 5785MHz Ant1

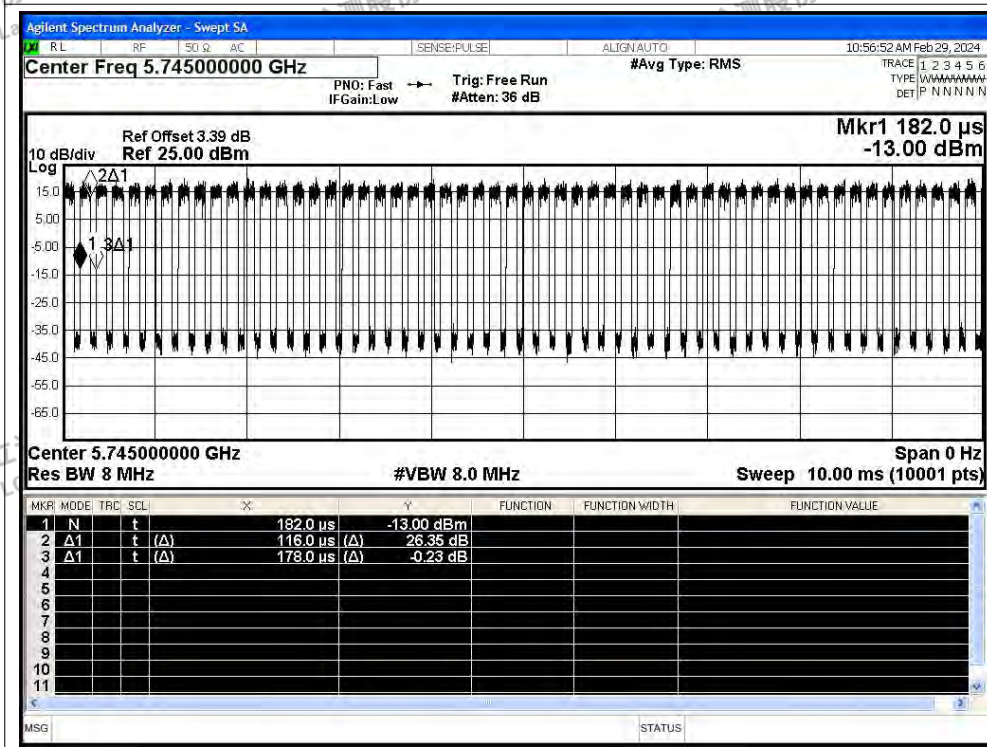




Duty Cycle NVNT a 5825MHz Ant1



Duty Cycle NVNT n20 5745MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

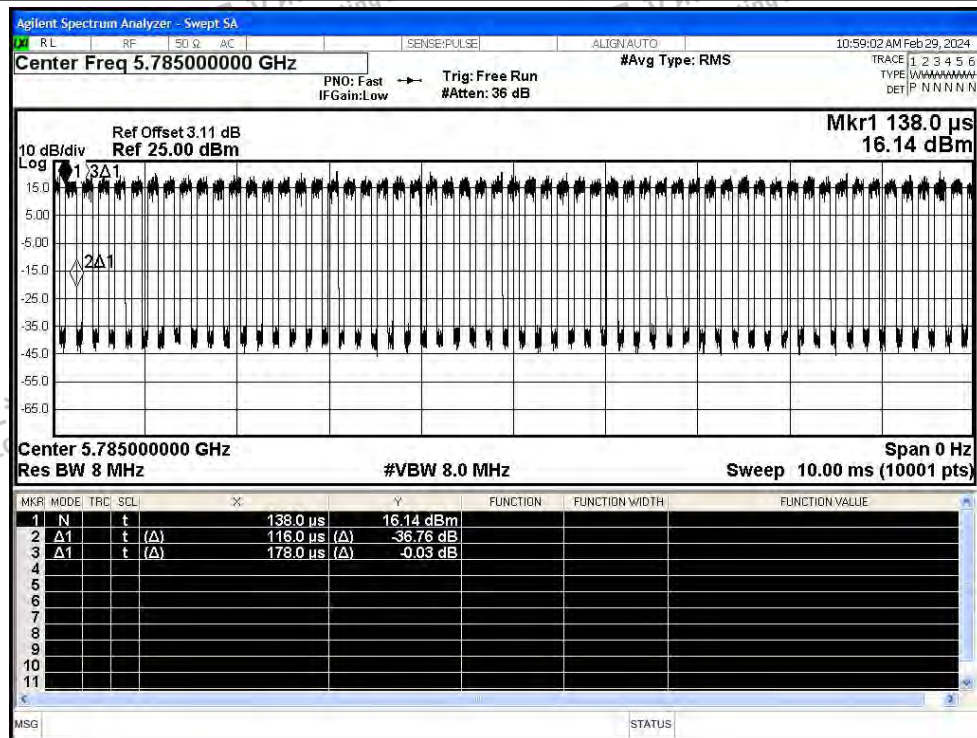
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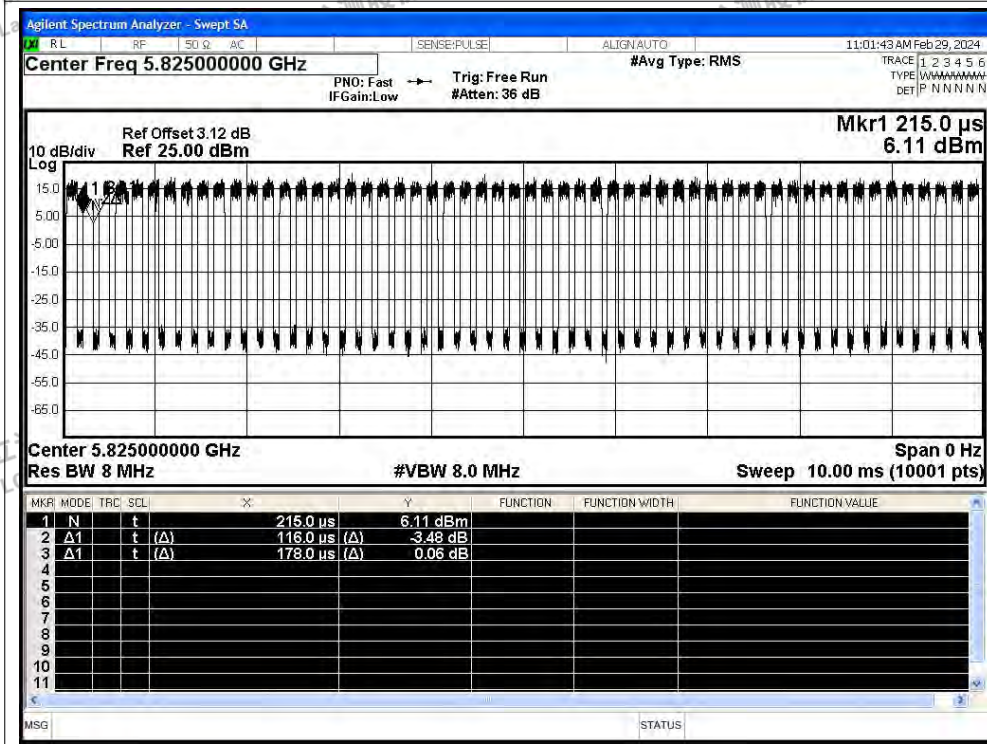
Scan code to check authenticity



Duty Cycle NVNT n20 5785MHz Ant1



Duty Cycle NVNT n20 5825MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

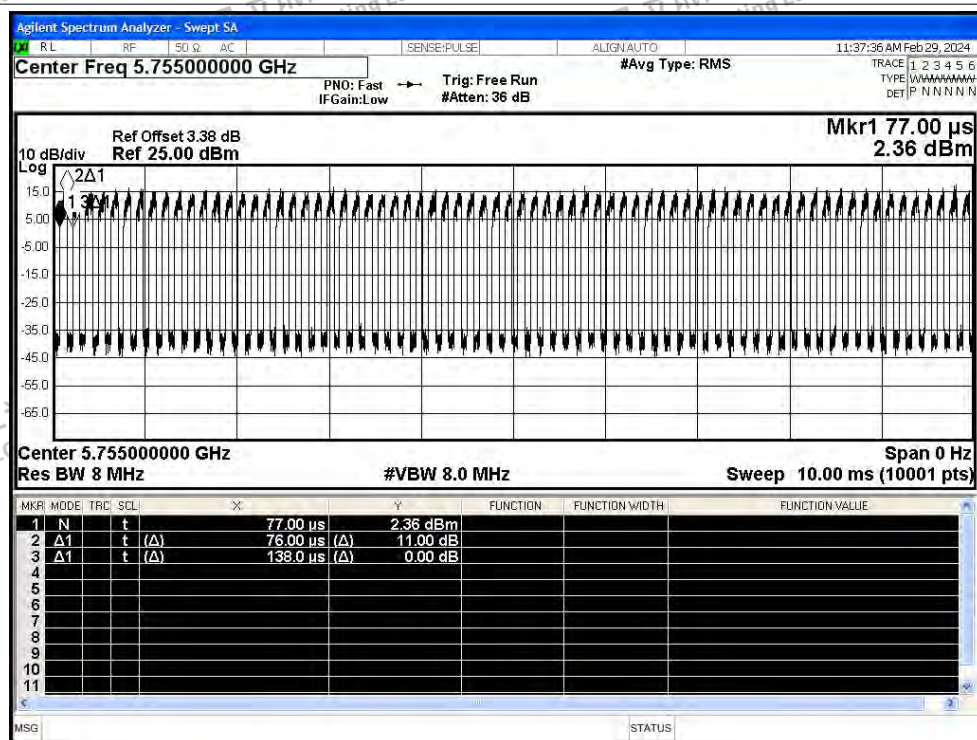
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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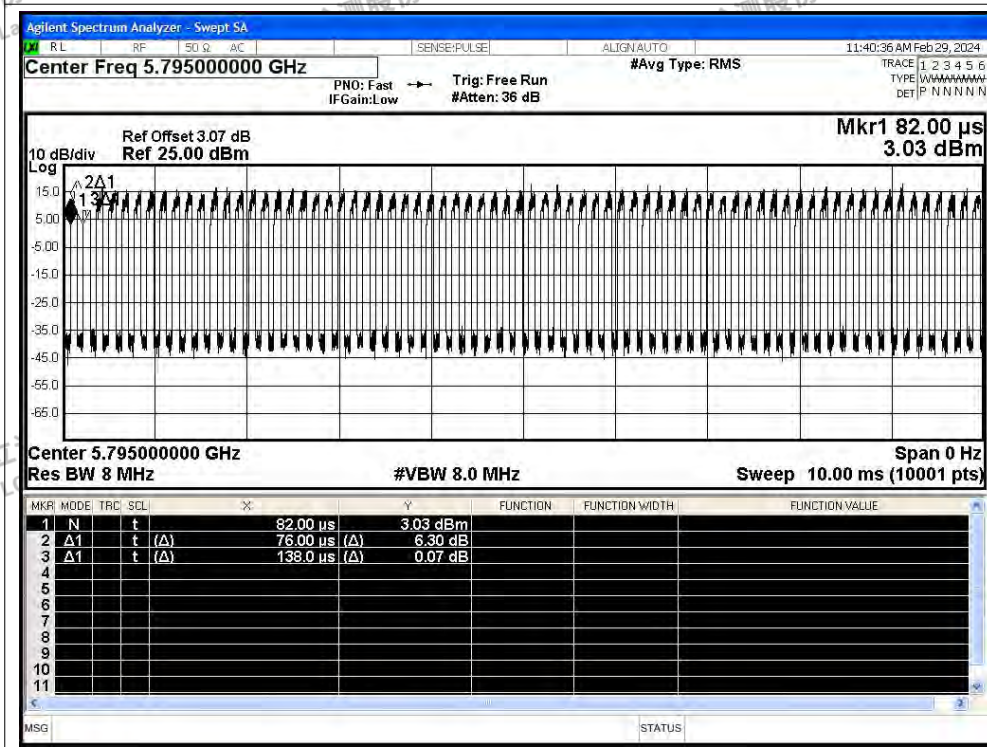
Scan code to check authenticity



Duty Cycle NVNT n40 5755MHz Ant1



Duty Cycle NVNT n40 5795MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

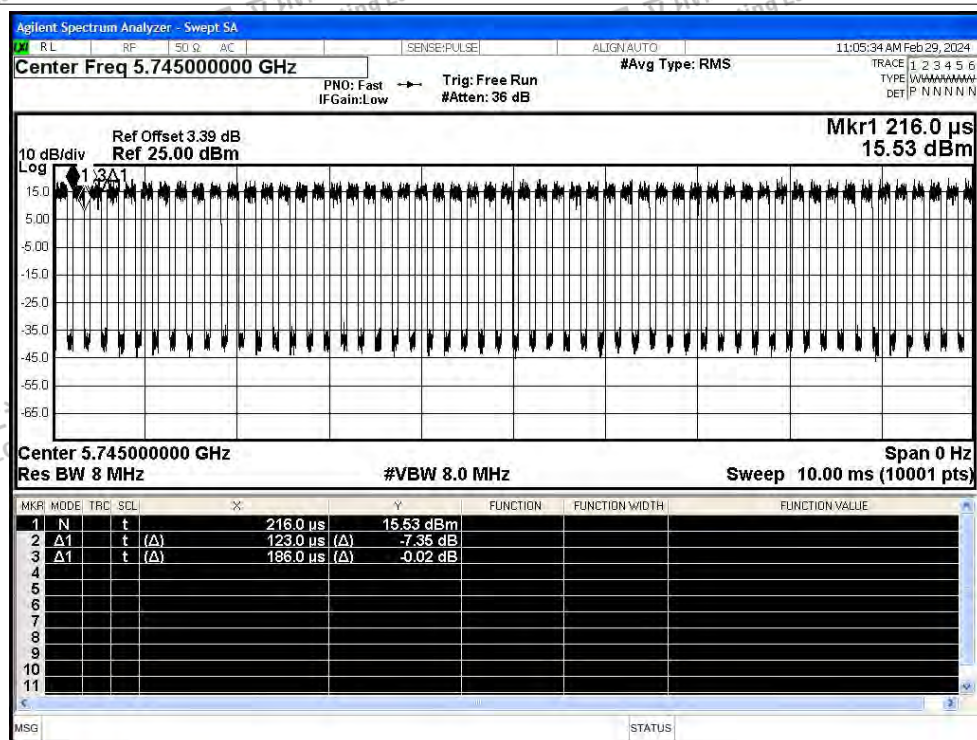
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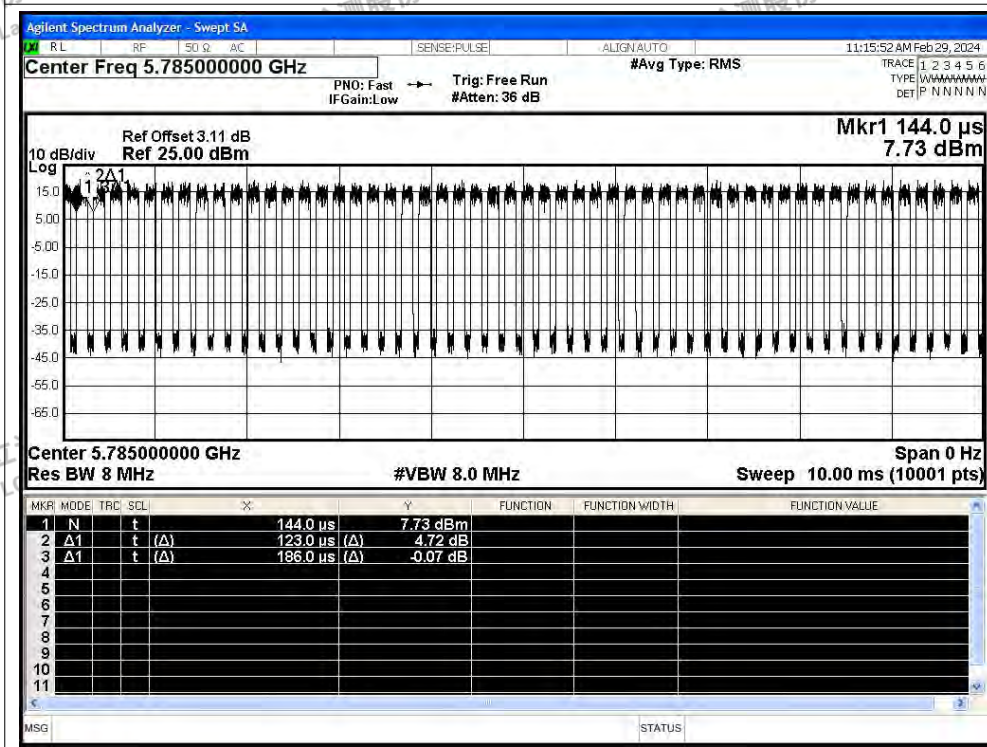
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Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1



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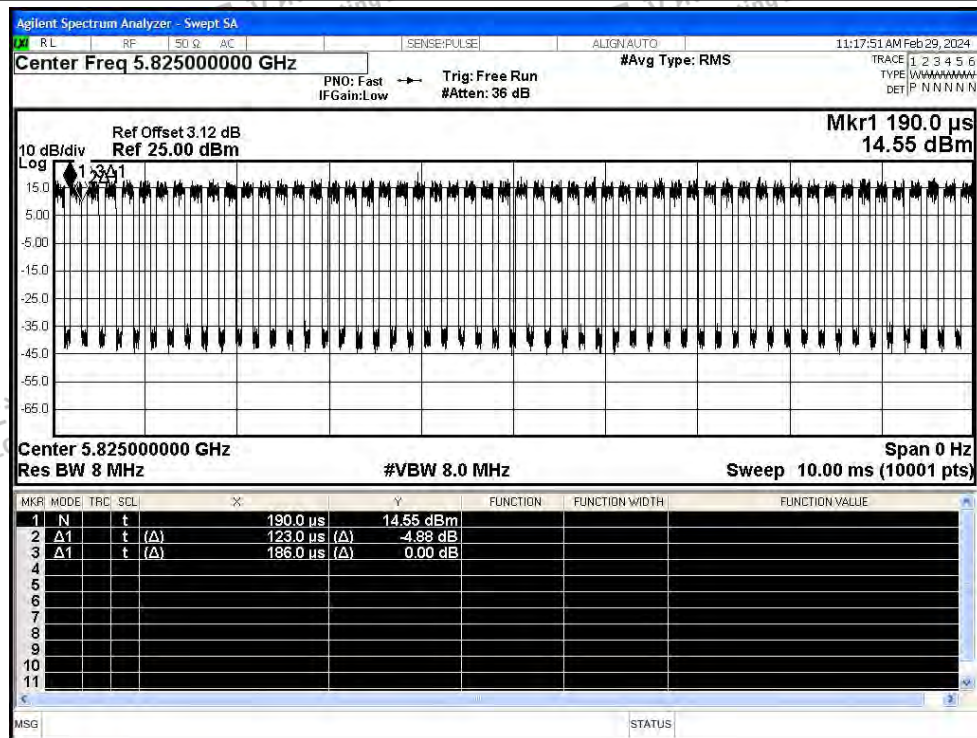
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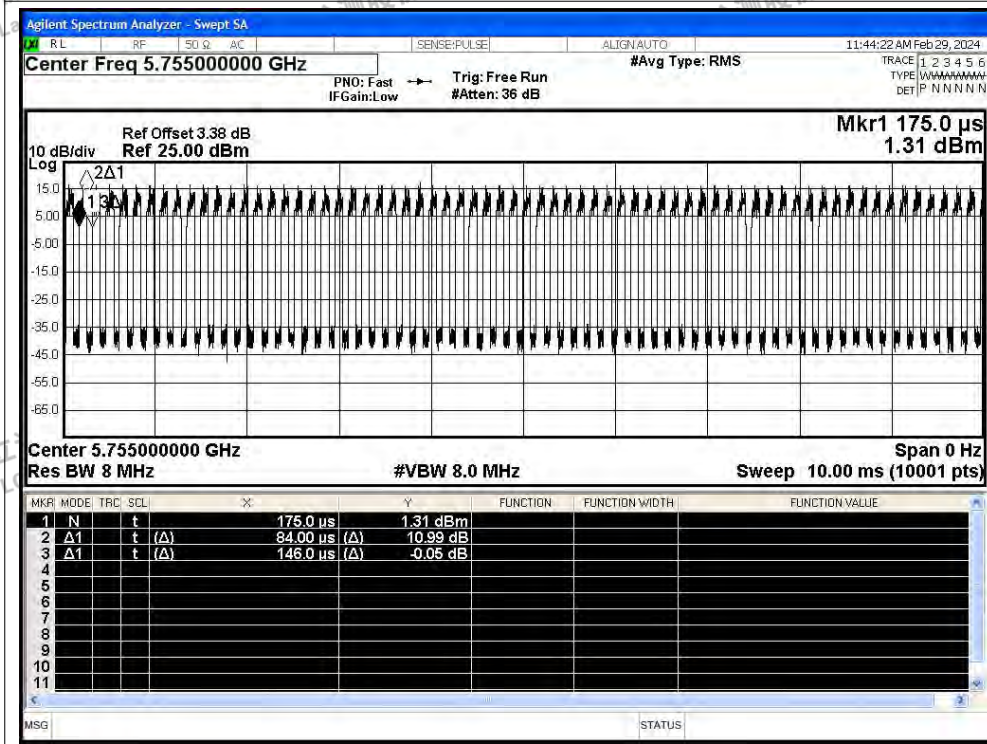
Scan code to check authenticity



Duty Cycle NVNT ac20 5825MHz Ant1

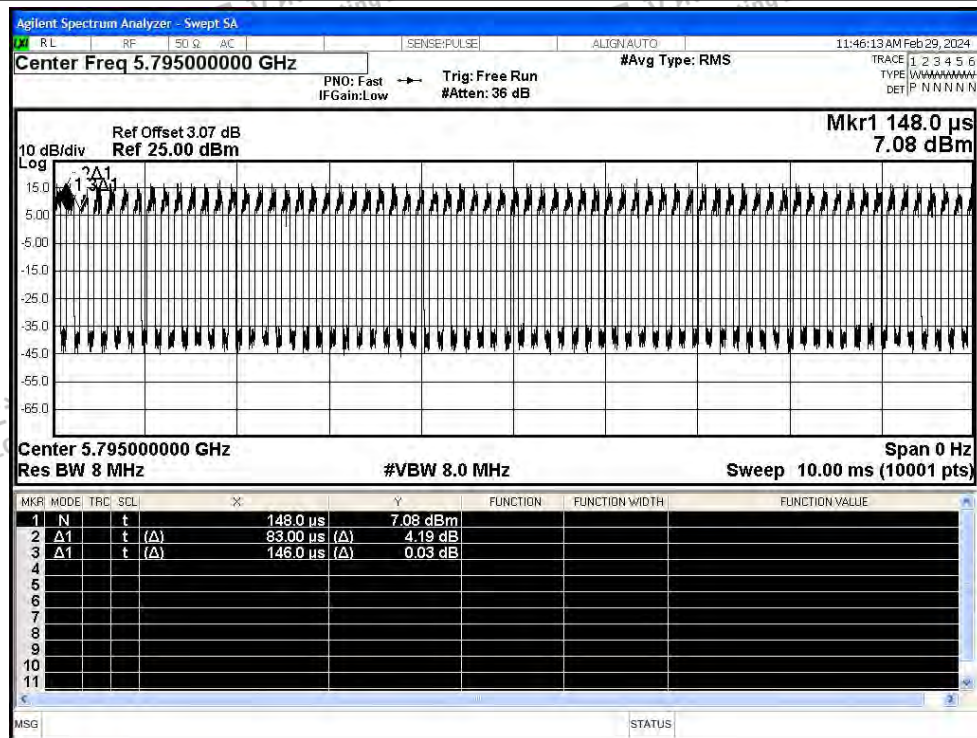


Duty Cycle NVNT ac40 5755MHz Ant1

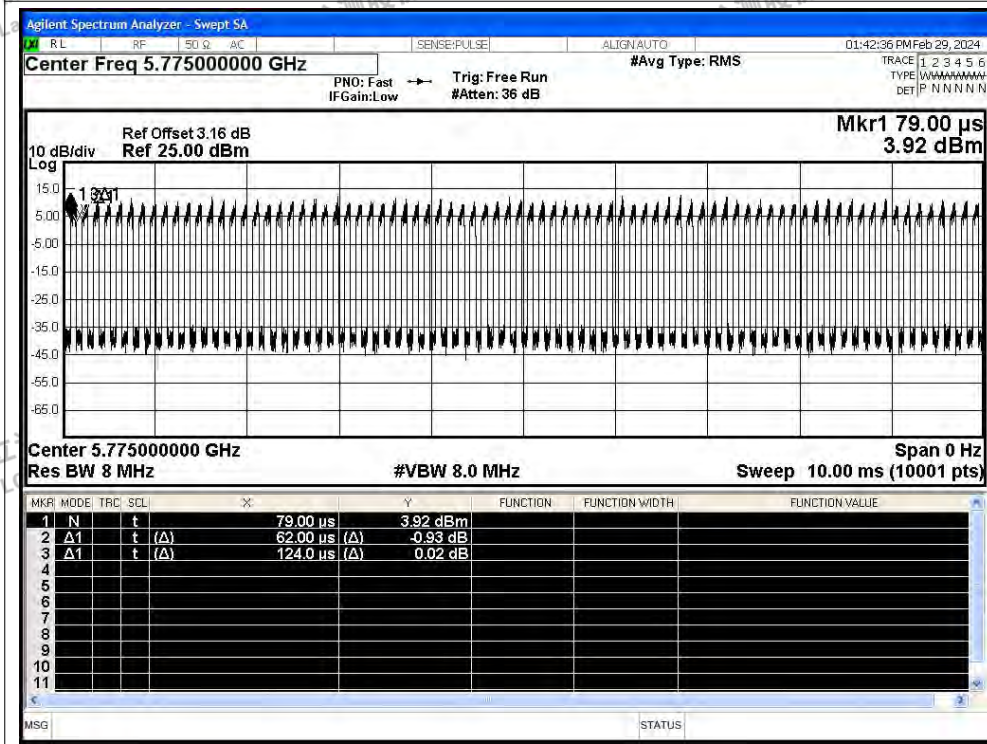




Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5775MHz Ant1



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