



## Appendix C

### RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: 1200Mbps Dual-band WiFi Router

Test Model: 2505012

#### Environmental Conditions

Temperature:	23.5°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng





## C.1 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant3	16.35	$\geq 0.5$	Pass
NVNT	a	5785	Ant3	16.339	$\geq 0.5$	Pass
NVNT	a	5825	Ant3	16.317	$\geq 0.5$	Pass
NVNT	n20	5745	Ant3	17.271	$\geq 0.5$	Pass
NVNT	n20	5785	Ant3	17.392	$\geq 0.5$	Pass
NVNT	n20	5825	Ant3	17.097	$\geq 0.5$	Pass
NVNT	n40	5755	Ant3	36.251	$\geq 0.5$	Pass
NVNT	n40	5795	Ant3	35.9	$\geq 0.5$	Pass
NVNT	ac20	5745	Ant3	17.242	$\geq 0.5$	Pass
NVNT	ac20	5785	Ant3	17.142	$\geq 0.5$	Pass
NVNT	ac20	5825	Ant3	17.143	$\geq 0.5$	Pass
NVNT	ac40	5755	Ant3	36.024	$\geq 0.5$	Pass
NVNT	ac40	5795	Ant3	36.112	$\geq 0.5$	Pass
NVNT	ac80	5775	Ant3	75.362	$\geq 0.5$	Pass



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

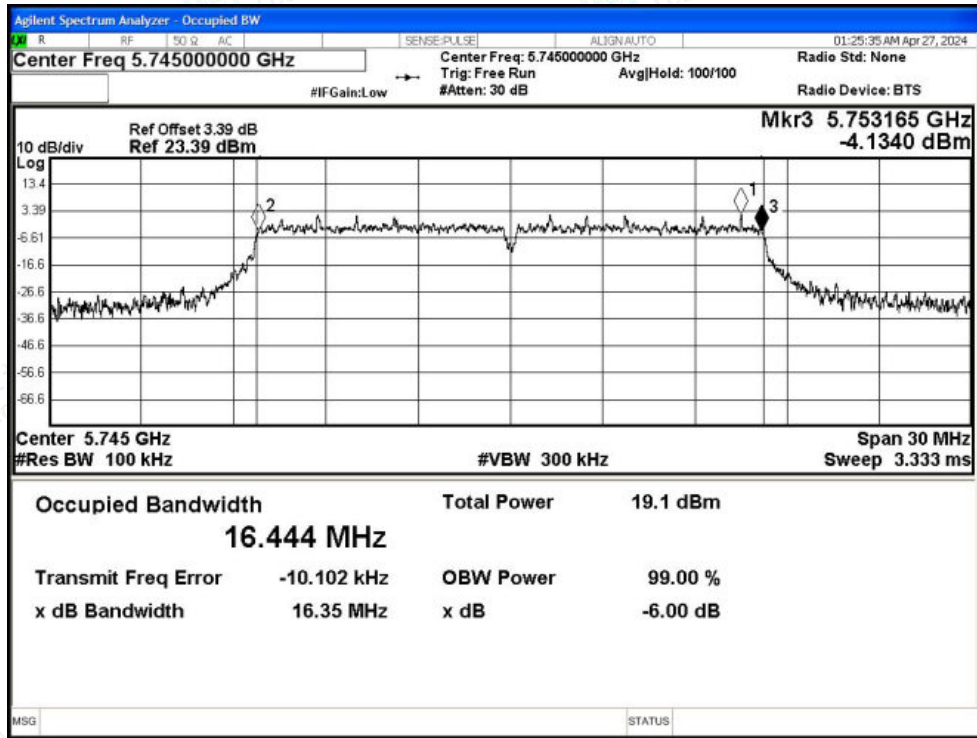
Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

Scan code to check authenticity

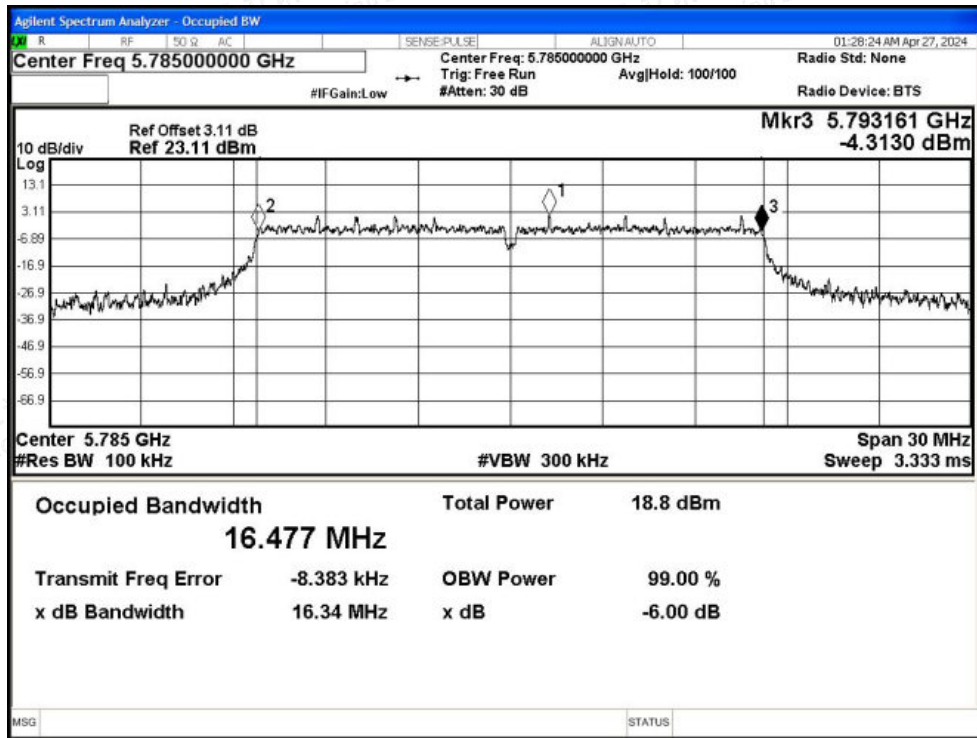


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant3

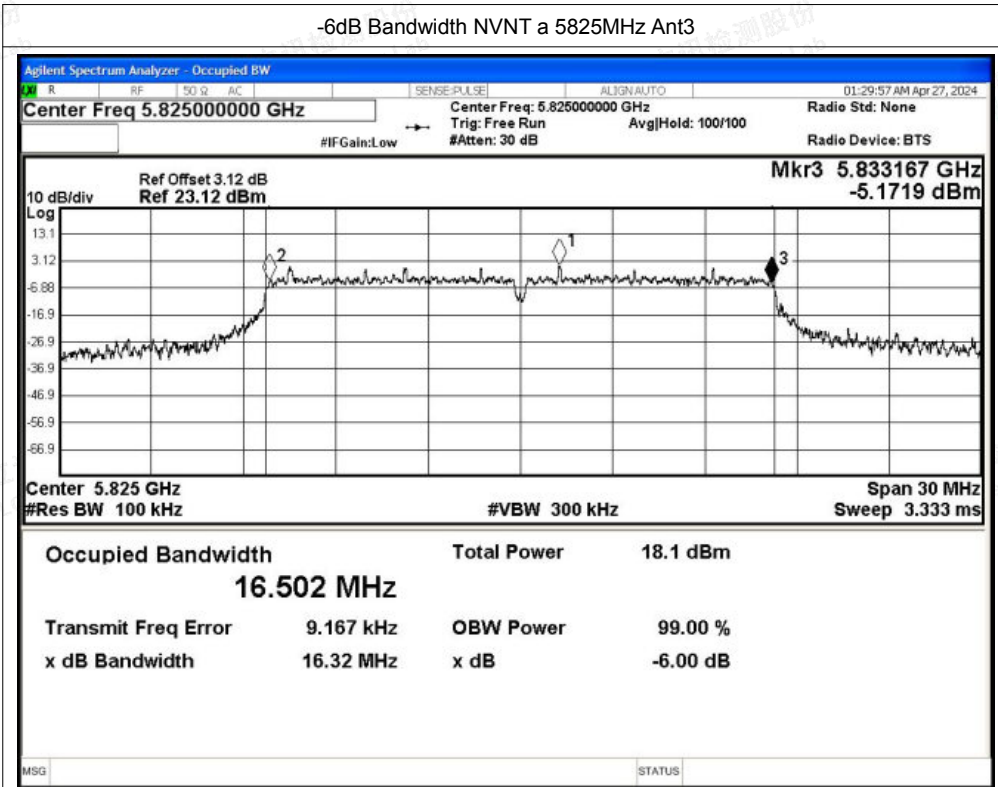


-6dB Bandwidth NVNT a 5785MHz Ant3

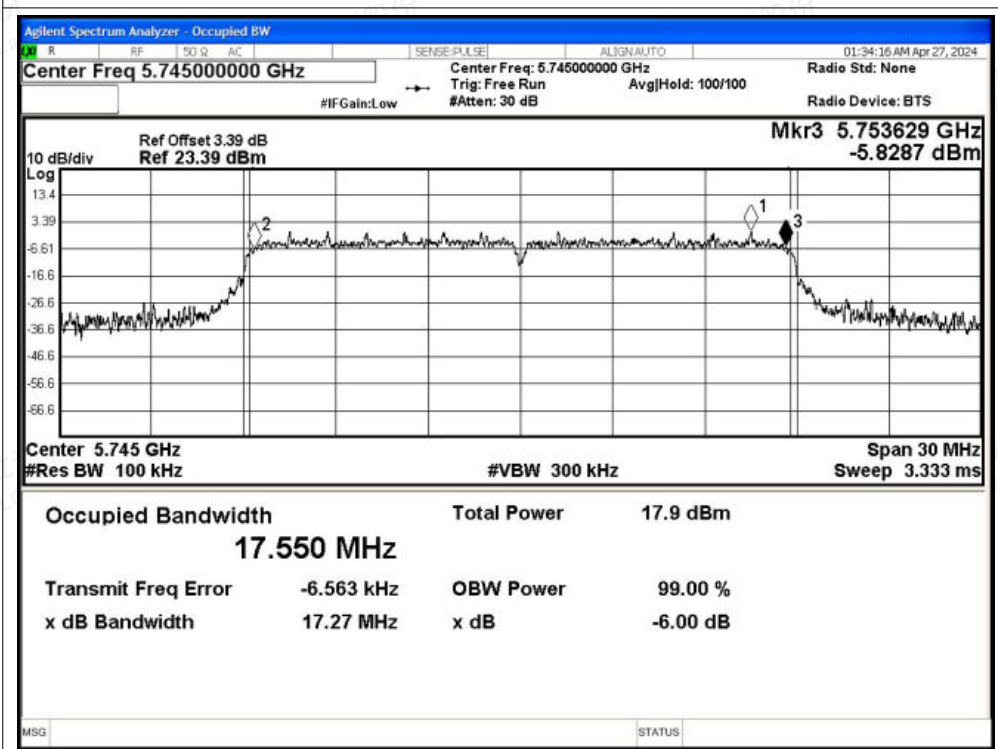




-6dB Bandwidth NVNT a 5825MHz Ant3

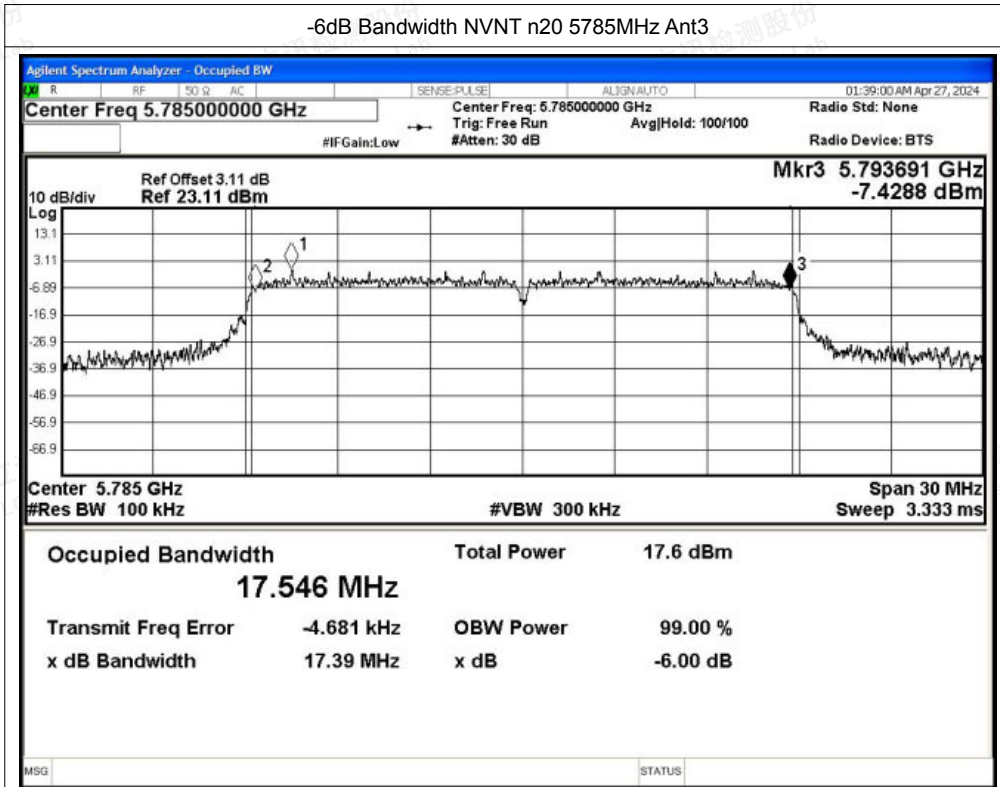


-6dB Bandwidth NVNT n20 5745MHz Ant3

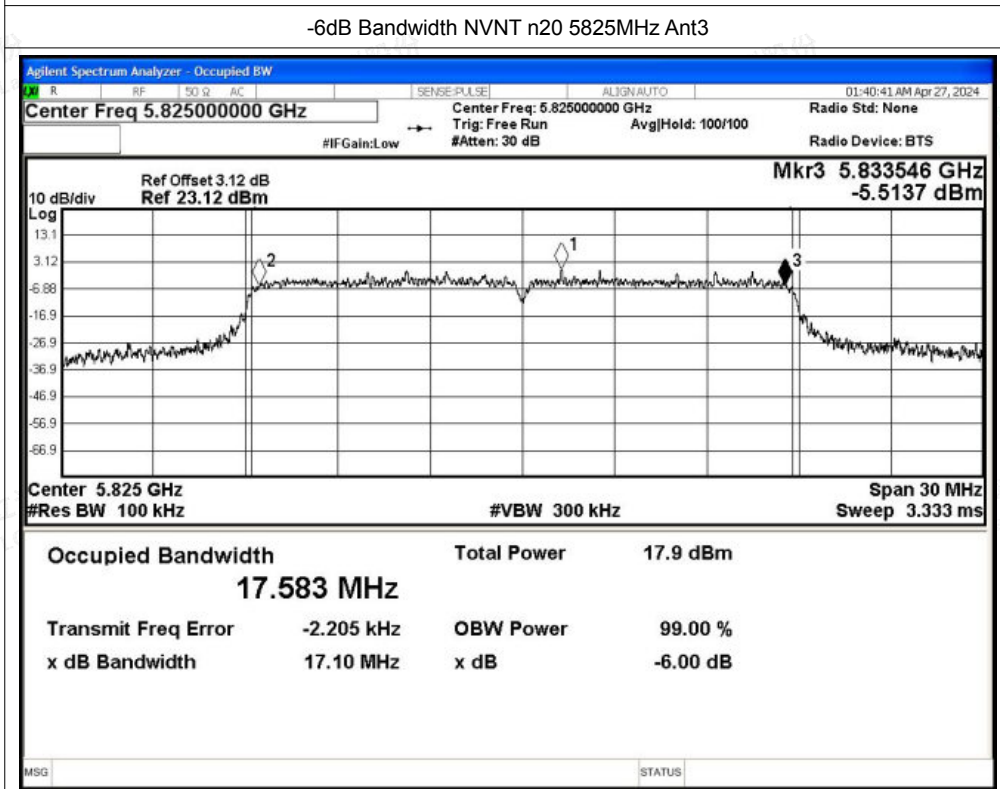




-6dB Bandwidth NVNT n20 5785MHz Ant3

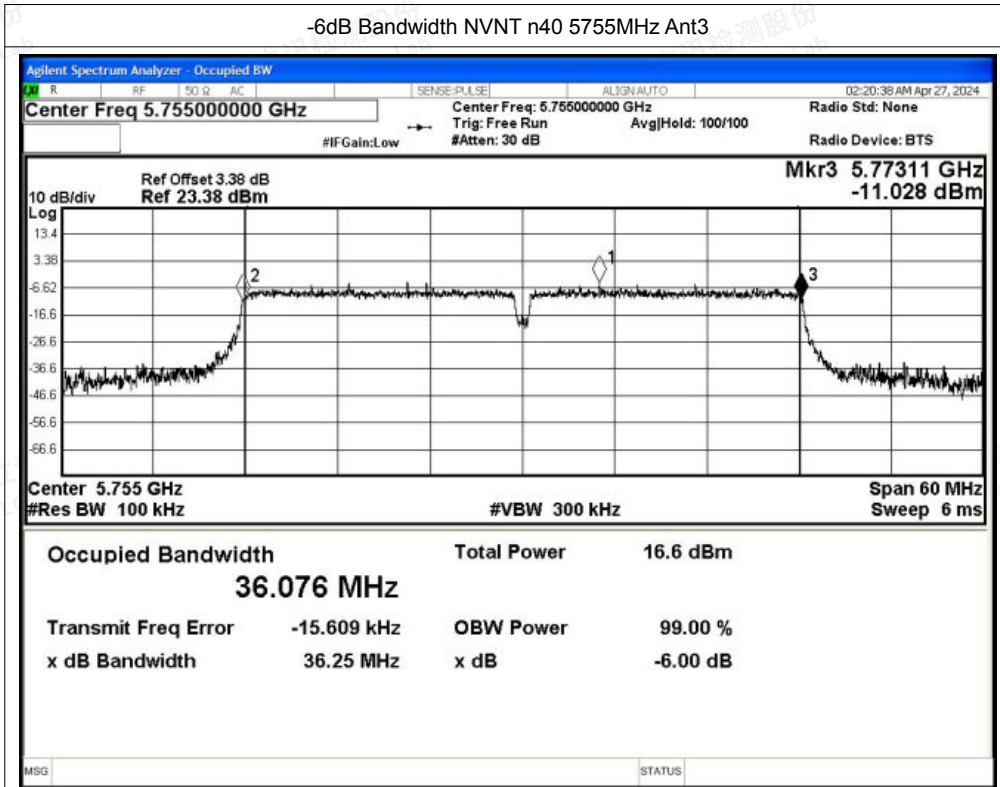


-6dB Bandwidth NVNT n20 5825MHz Ant3

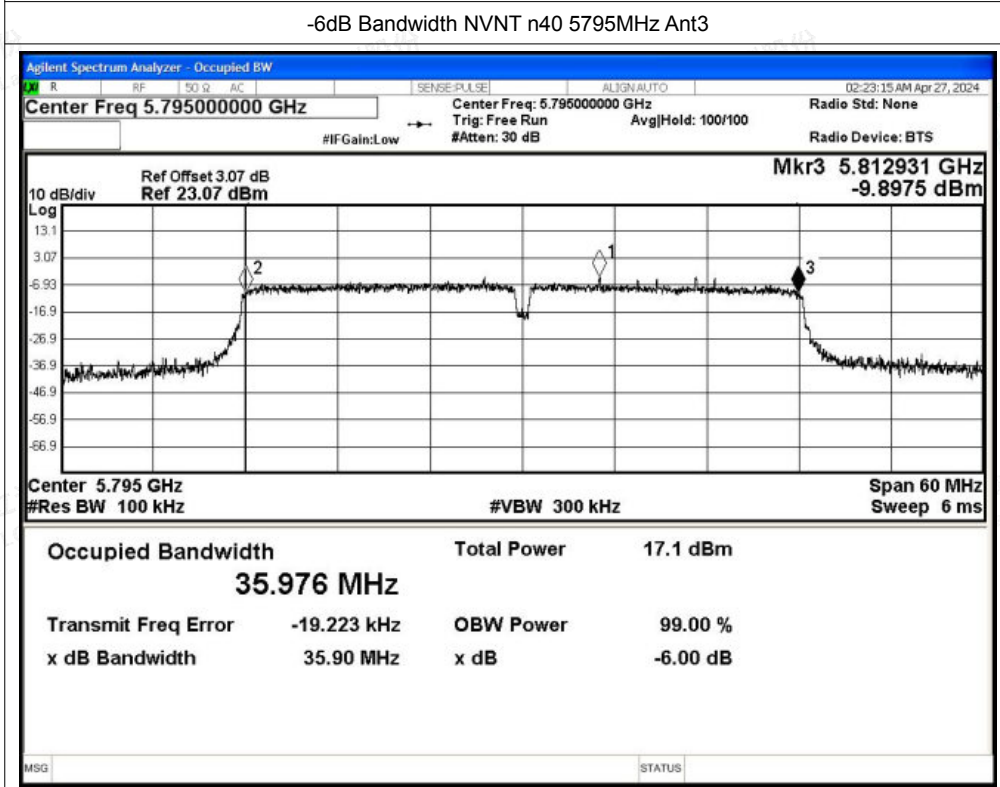




-6dB Bandwidth NVNT n40 5755MHz Ant3

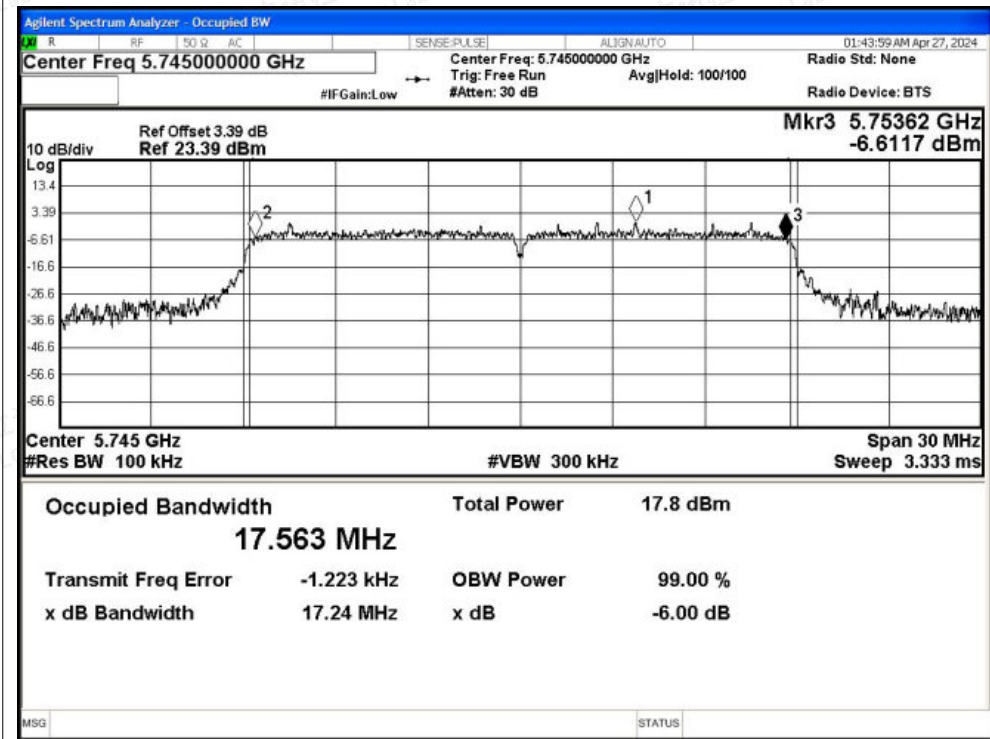


-6dB Bandwidth NVNT n40 5795MHz Ant3

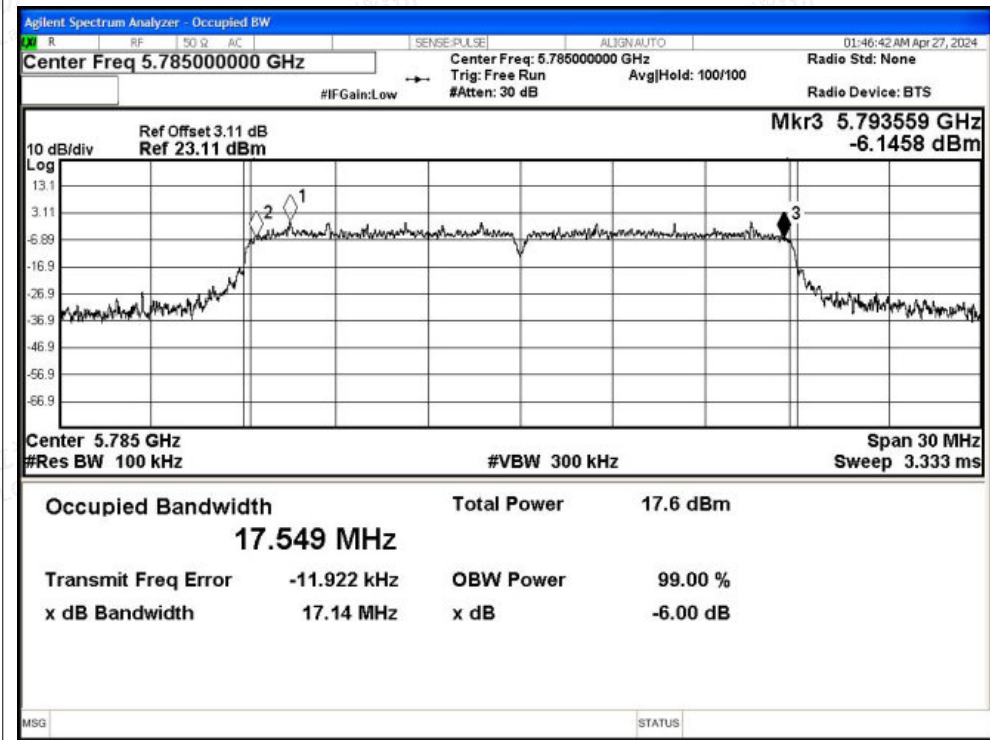




-6dB Bandwidth NVNT ac20 5745MHz Ant3

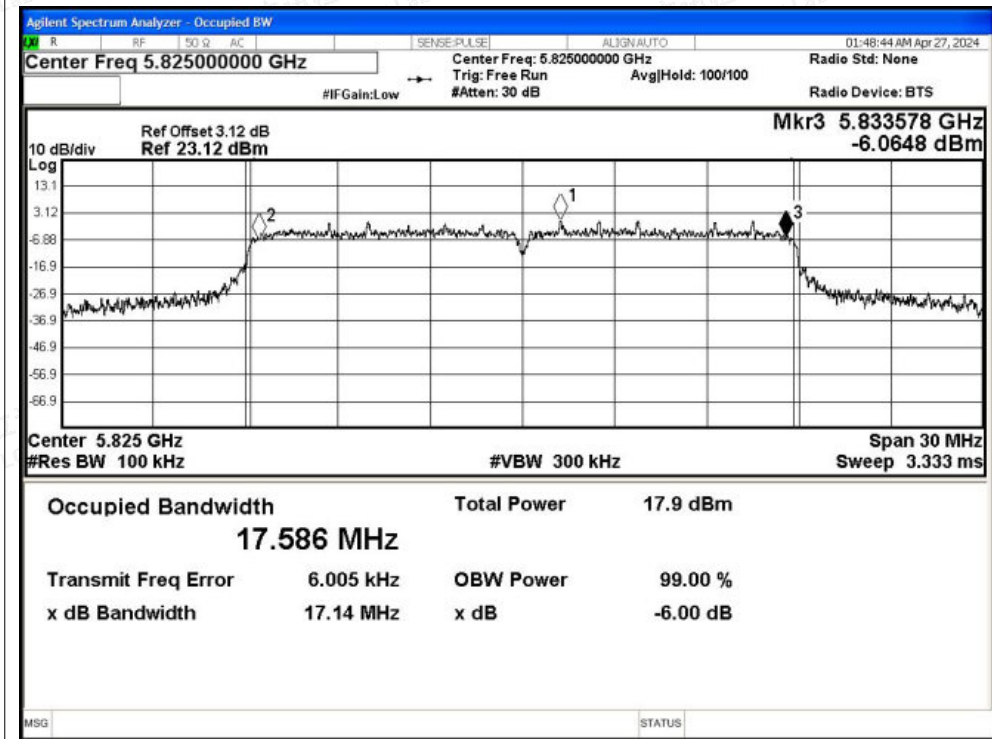


-6dB Bandwidth NVNT ac20 5785MHz Ant3

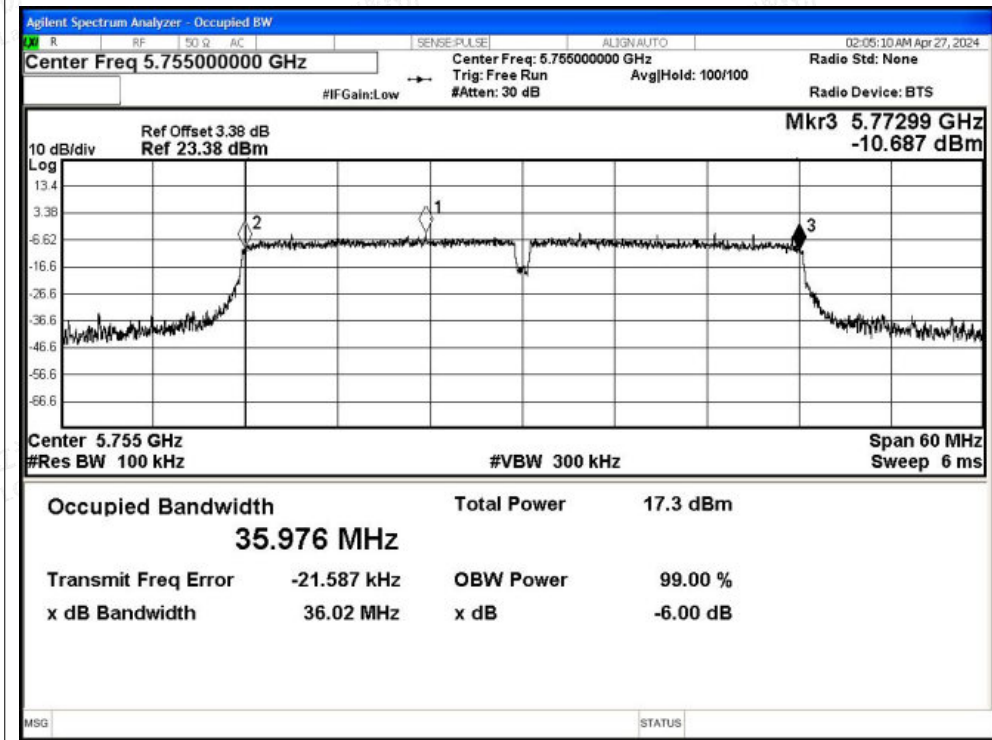




-6dB Bandwidth NVNT ac20 5825MHz Ant3



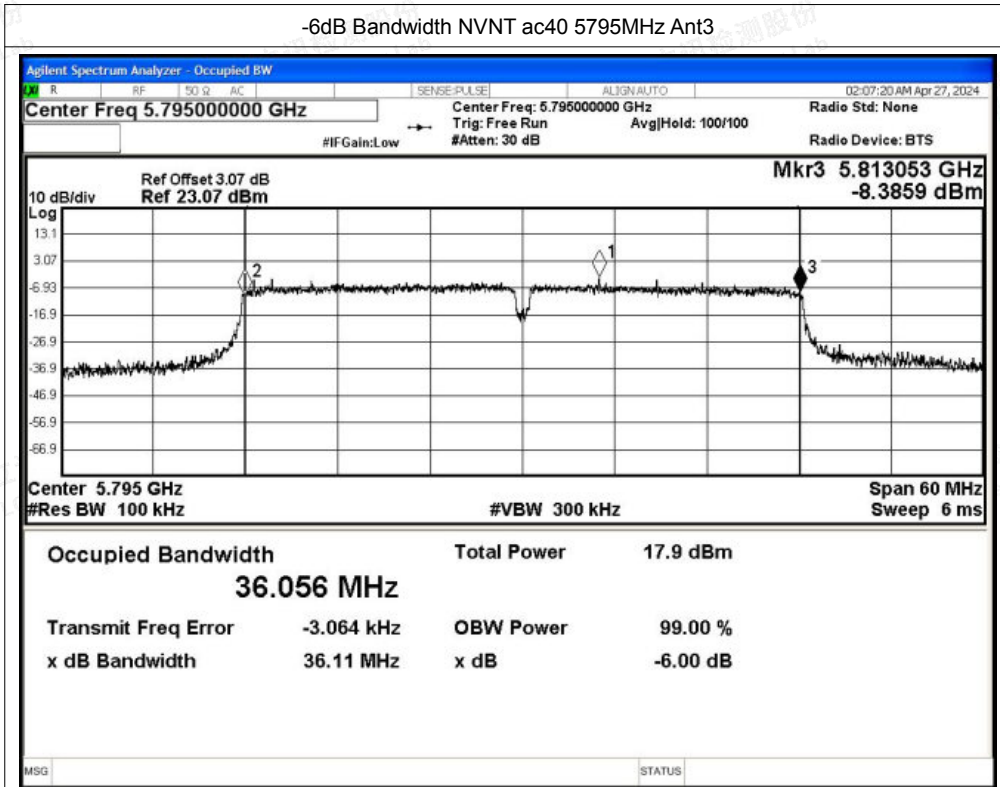
-6dB Bandwidth NVNT ac40 5755MHz Ant3



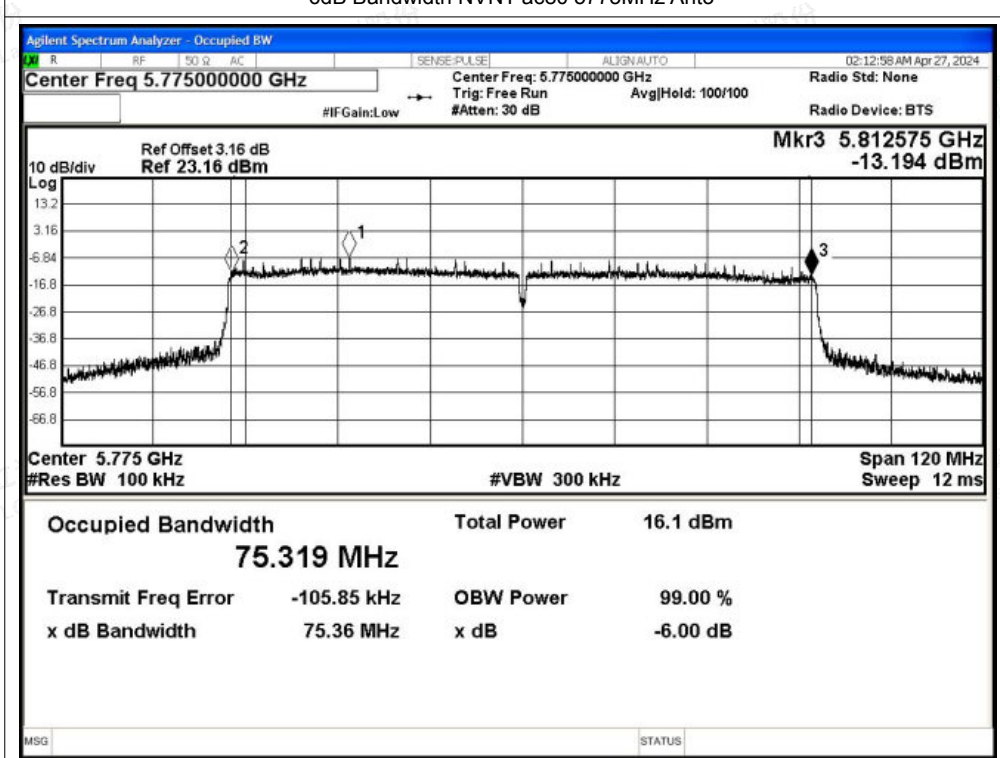




-6dB Bandwidth NVNT ac40 5795MHz Ant3



-6dB Bandwidth NVNT ac80 5775MHz Ant3





Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant4	16.347	$\geq 0.5$	Pass
NVNT	a	5785	Ant4	16.325	$\geq 0.5$	Pass
NVNT	a	5825	Ant4	16.329	$\geq 0.5$	Pass
NVNT	n20	5745	Ant4	17.558	$\geq 0.5$	Pass
NVNT	n20	5785	Ant4	17.309	$\geq 0.5$	Pass
NVNT	n20	5825	Ant4	17.518	$\geq 0.5$	Pass
NVNT	n40	5755	Ant4	36.199	$\geq 0.5$	Pass
NVNT	n40	5795	Ant4	35.742	$\geq 0.5$	Pass
NVNT	ac20	5745	Ant4	17.411	$\geq 0.5$	Pass
NVNT	ac20	5785	Ant4	17.262	$\geq 0.5$	Pass
NVNT	ac20	5825	Ant4	17.355	$\geq 0.5$	Pass
NVNT	ac40	5755	Ant4	36.146	$\geq 0.5$	Pass
NVNT	ac40	5795	Ant4	35.853	$\geq 0.5$	Pass
NVNT	ac80	5775	Ant4	75.294	$\geq 0.5$	Pass



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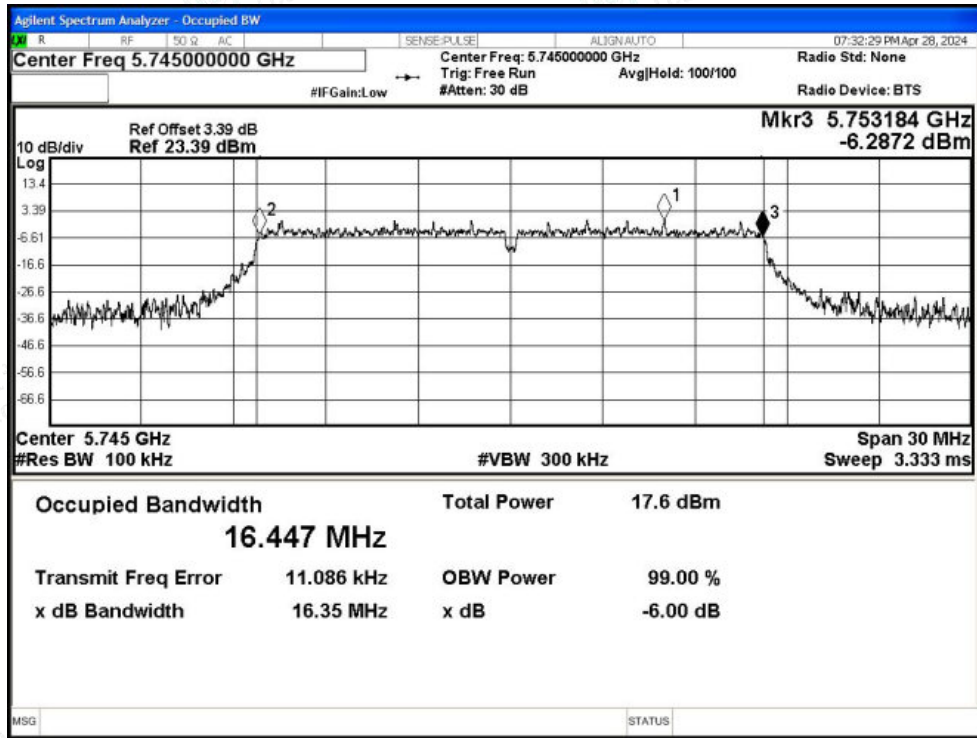
Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

Scan code to check authenticity

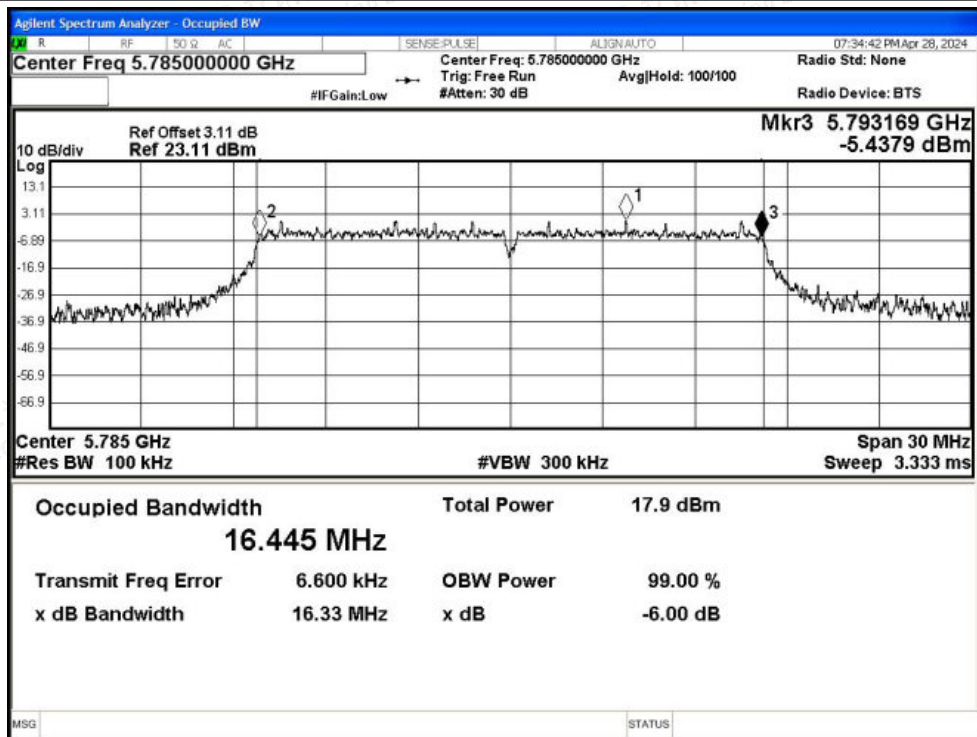


Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant4

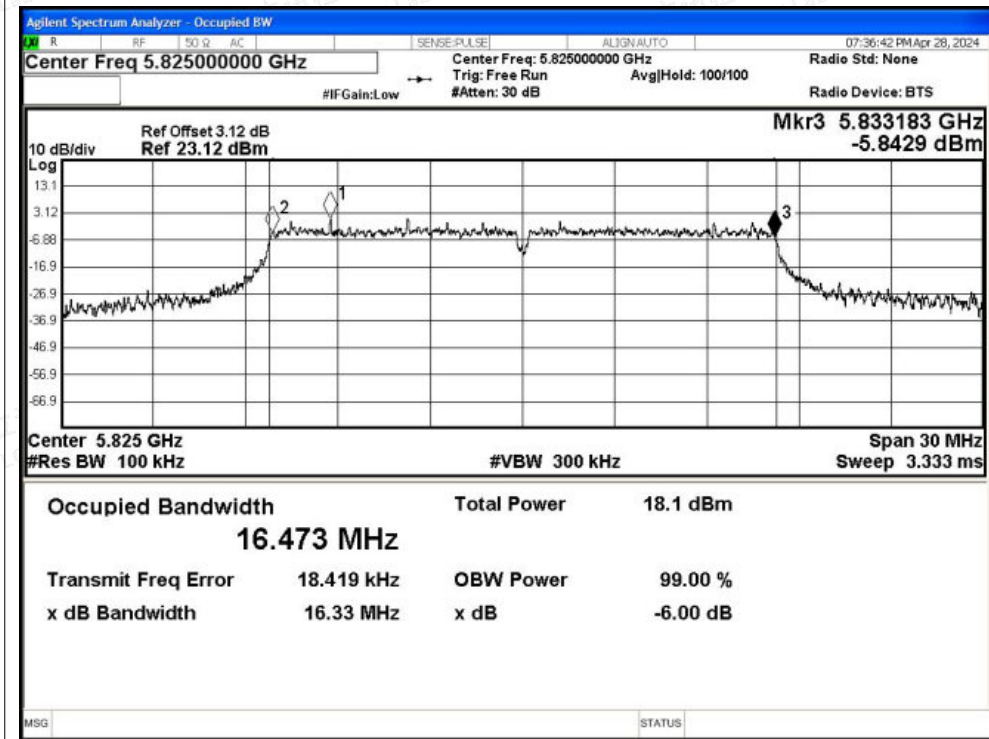


-6dB Bandwidth NVNT a 5785MHz Ant4

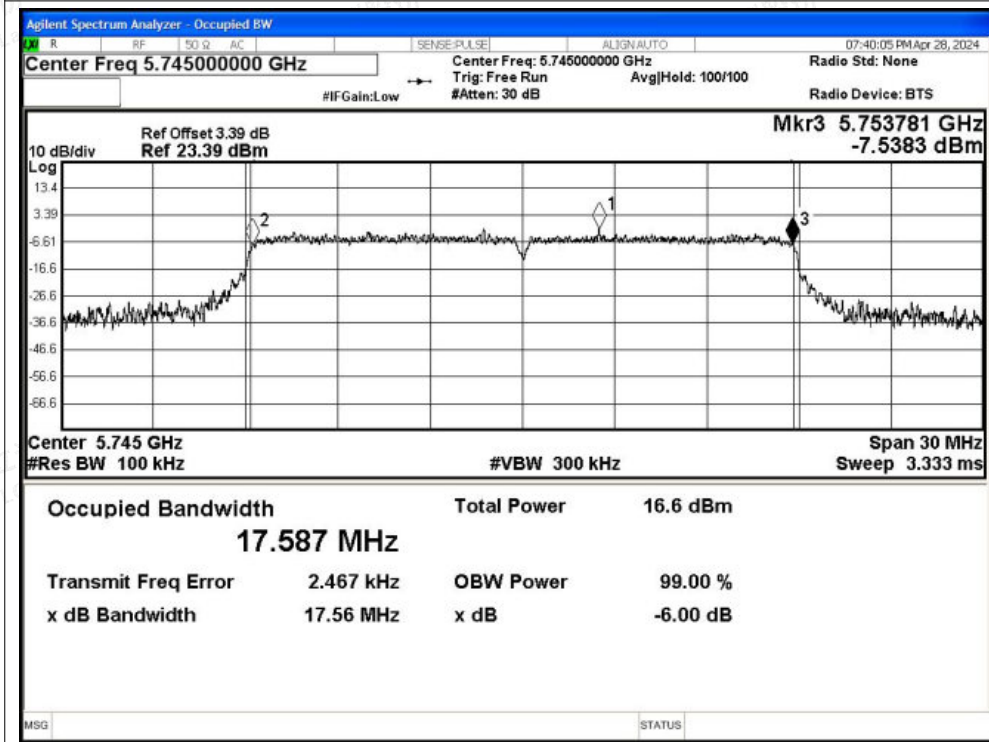




-6dB Bandwidth NVNT a 5825MHz Ant4

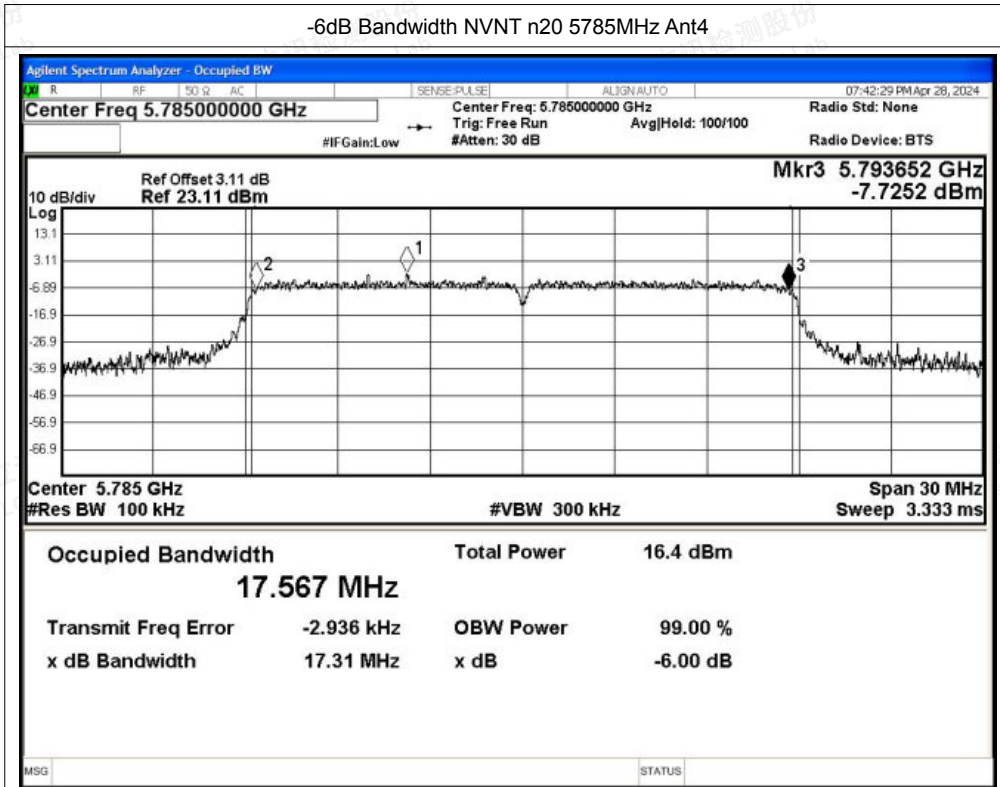


-6dB Bandwidth NVNT n20 5745MHz Ant4

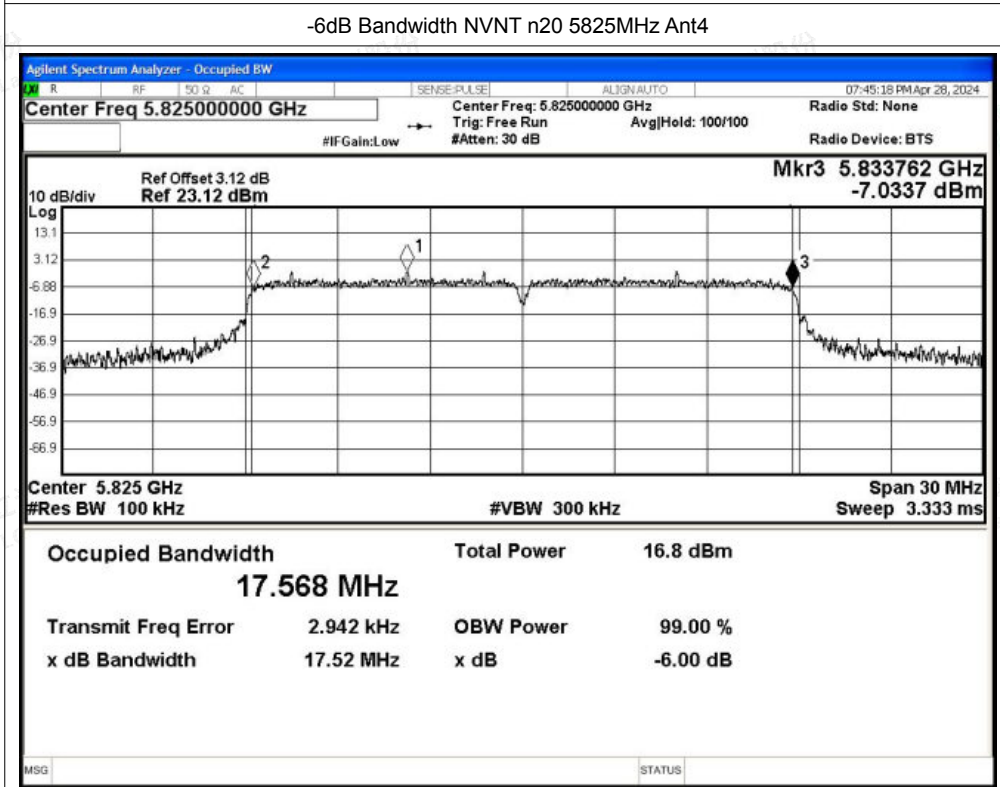




-6dB Bandwidth NVNT n20 5785MHz Ant4

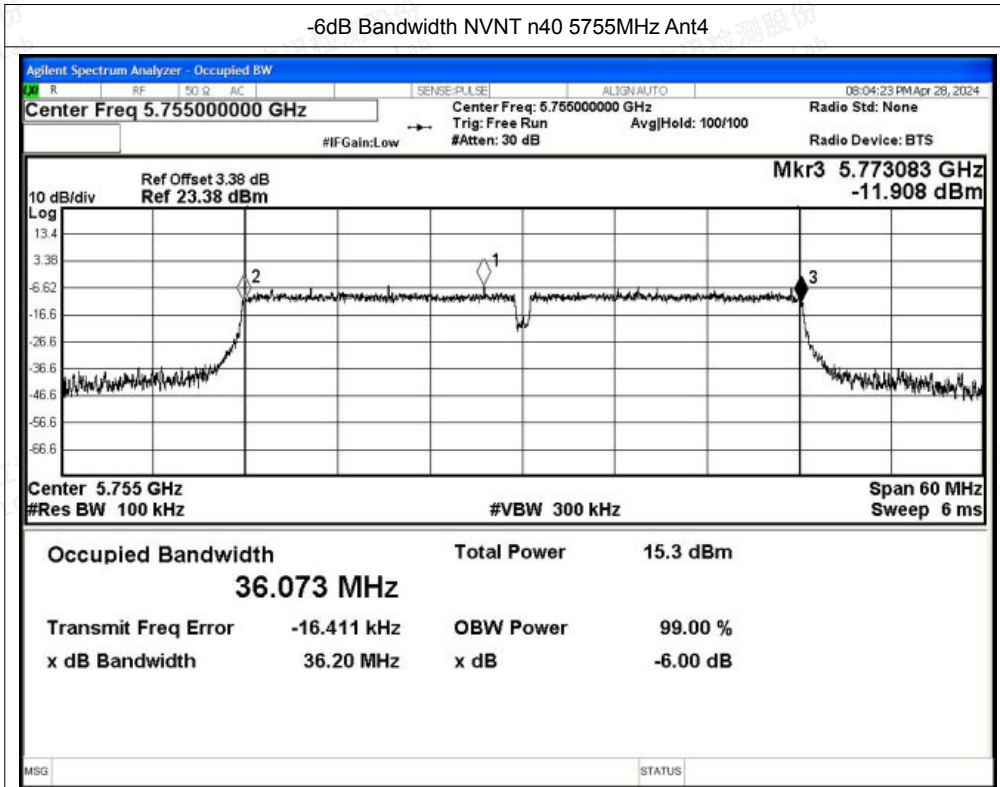


-6dB Bandwidth NVNT n20 5825MHz Ant4

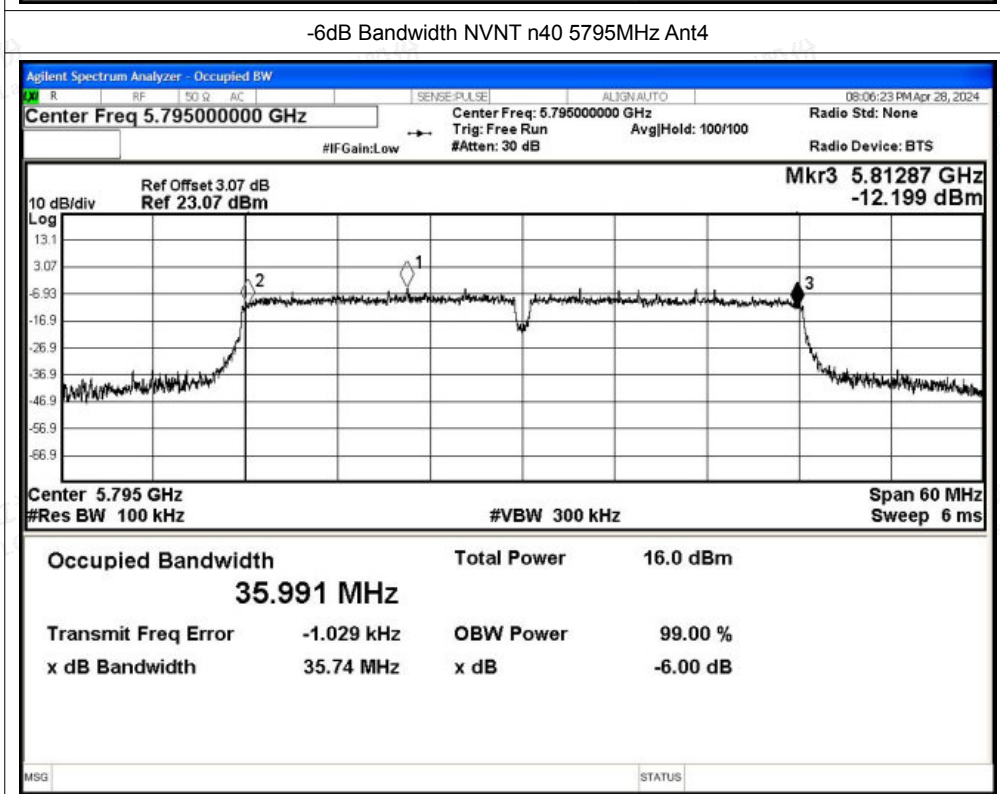




-6dB Bandwidth NVNT n40 5755MHz Ant4

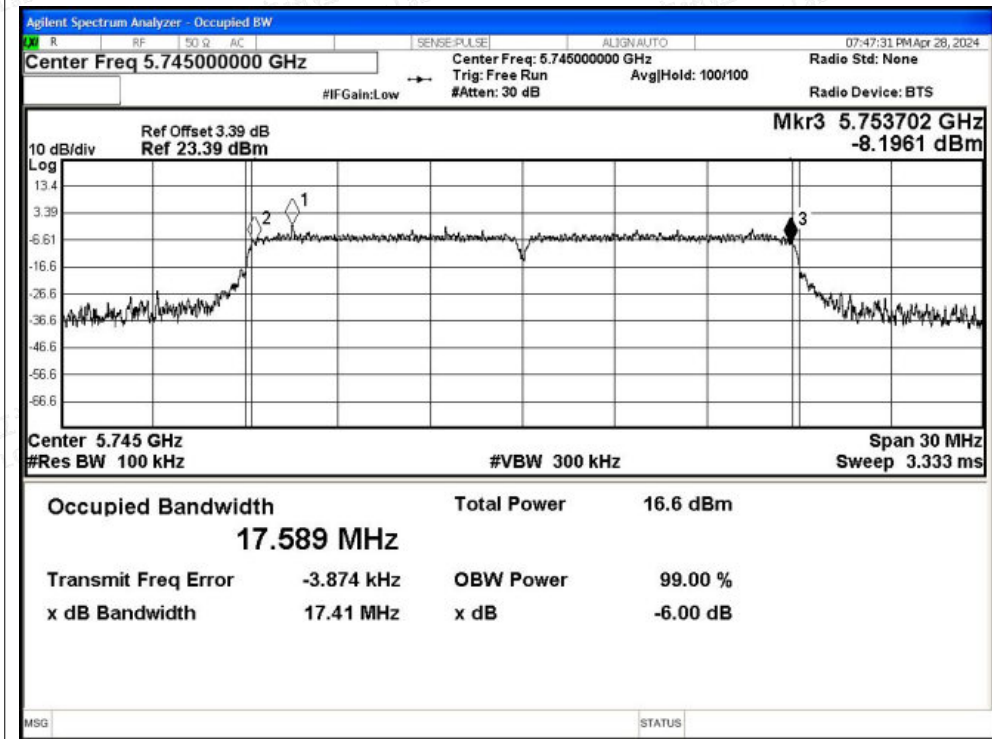


-6dB Bandwidth NVNT n40 5795MHz Ant4





-6dB Bandwidth NVNT ac20 5745MHz Ant4

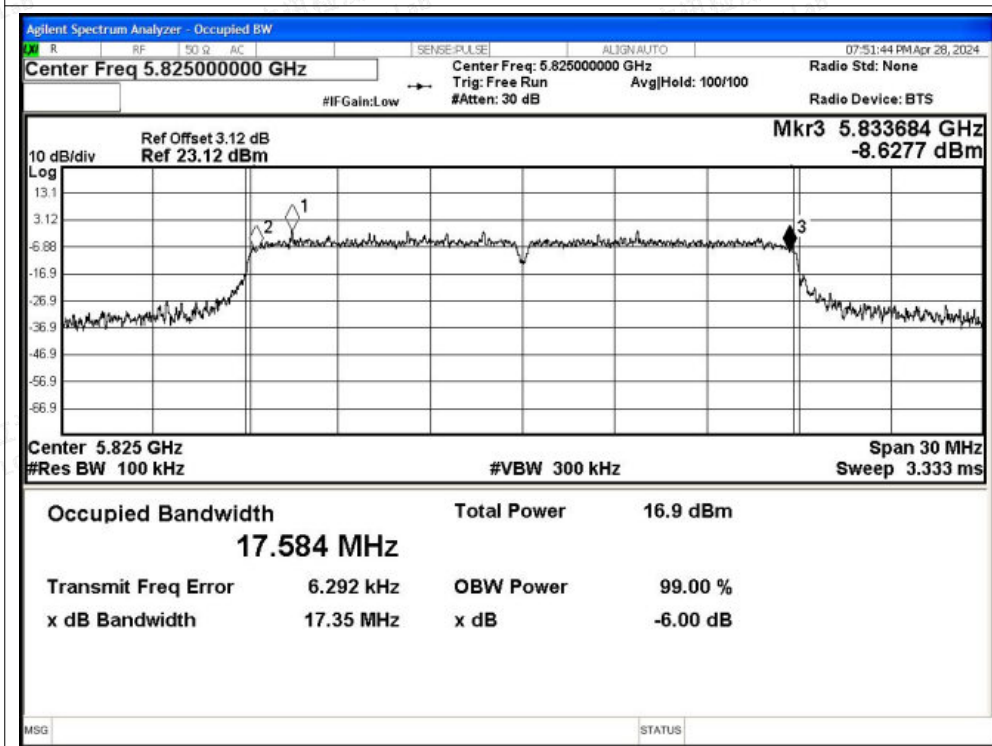


-6dB Bandwidth NVNT ac20 5785MHz Ant4

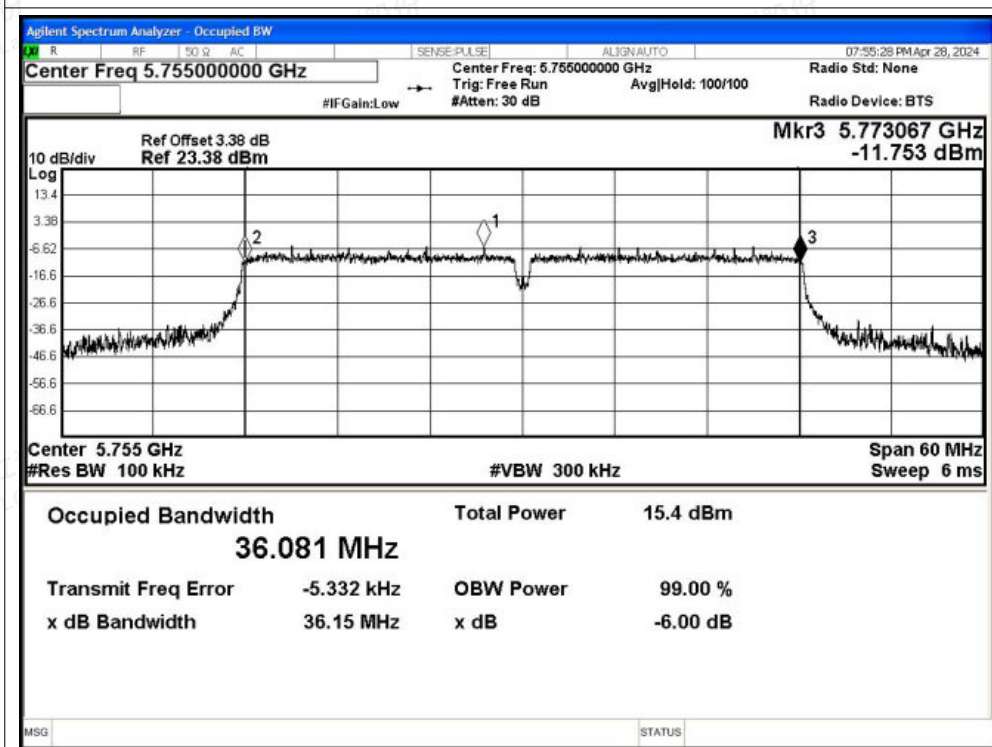




-6dB Bandwidth NVNT ac20 5825MHz Ant4



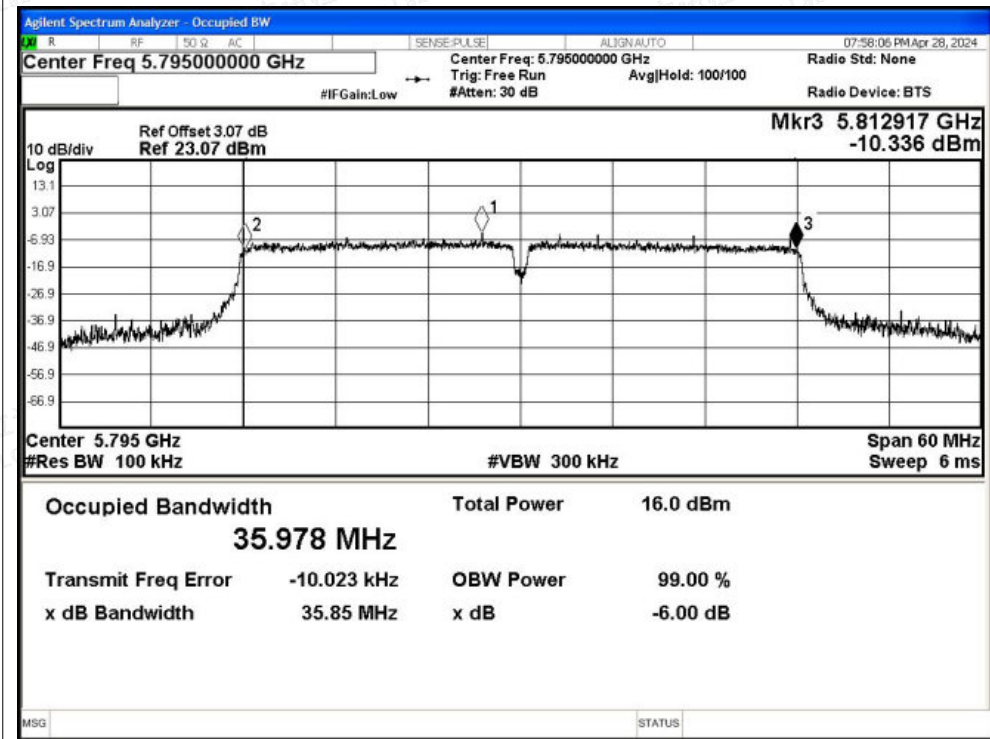
-6dB Bandwidth NVNT ac40 5755MHz Ant4



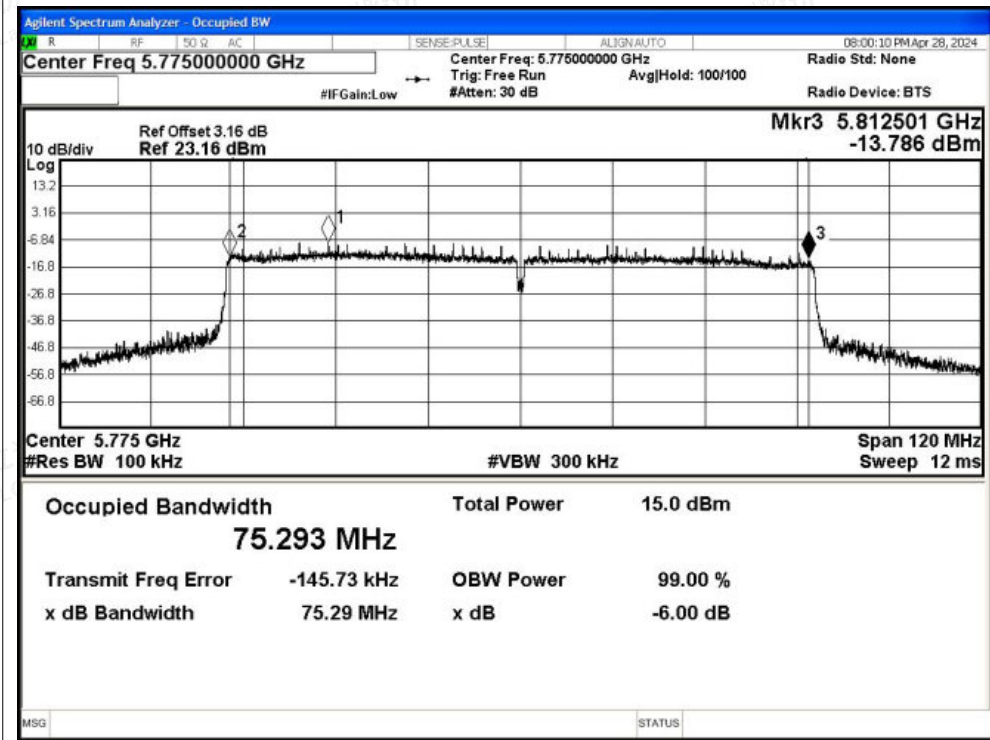




-6dB Bandwidth NVNT ac40 5795MHz Ant4



-6dB Bandwidth NVNT ac80 5775MHz Ant4





## C.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	Ant3	12.99	0.24	13.23	30	Pass
NVNT	a	5785	Ant3	12.8	0.24	13.04	30	Pass
NVNT	a	5825	Ant3	12.11	0.24	12.35	30	Pass
NVNT	n20	5745	Ant3	11.42	0.28	11.7	30	Pass
NVNT	n20	5785	Ant3	11.23	0.28	11.51	30	Pass
NVNT	n20	5825	Ant3	11.46	0.28	11.74	30	Pass
NVNT	n40	5755	Ant3	10.25	0.12	10.37	30	Pass
NVNT	n40	5795	Ant3	10.74	0.12	10.86	30	Pass
NVNT	ac20	5745	Ant3	11.33	0.28	11.61	30	Pass
NVNT	ac20	5785	Ant3	11.15	0.28	11.43	30	Pass
NVNT	ac20	5825	Ant3	11.44	0.28	11.72	30	Pass
NVNT	ac40	5755	Ant3	10.3	0.12	10.42	30	Pass
NVNT	ac40	5795	Ant3	10.67	0.12	10.79	30	Pass
NVNT	ac80	5775	Ant3	9.17	0.25	9.42	30	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant4	11.58	0.24	11.82	30	Pass
NVNT	a	5785	Ant4	11.83	0.24	12.07	30	Pass
NVNT	a	5825	Ant4	11.22	0.24	11.46	30	Pass
NVNT	n20	5745	Ant4	10.48	0.12	10.6	30	Pass
NVNT	n20	5785	Ant4	10.36	0.12	10.48	30	Pass
NVNT	n20	5825	Ant4	10.69	0.12	10.81	30	Pass
NVNT	n40	5755	Ant4	9	0.12	9.12	30	Pass
NVNT	n40	5795	Ant4	9.63	0.12	9.75	30	Pass
NVNT	ac20	5745	Ant4	10.43	0.12	10.55	30	Pass
NVNT	ac20	5785	Ant4	10.28	0.12	10.4	30	Pass
NVNT	ac20	5825	Ant4	10.69	0.12	10.81	30	Pass
NVNT	ac40	5755	Ant4	9.07	0.12	9.19	30	Pass
NVNT	ac40	5795	Ant4	9.59	0.12	9.71	30	Pass
NVNT	ac80	5775	Ant4	8.04	0.25	8.29	30	Pass





MIMO

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant3	Ant4	Ant3+Ant4		
NVNT	n20	5745	11.7	10.6	14.20	27.61	Pass
NVNT	n20	5785	11.51	10.48	14.04	27.61	Pass
NVNT	n20	5825	11.74	10.81	14.31	27.61	Pass
NVNT	n40	5755	10.37	9.12	12.80	27.61	Pass
NVNT	n40	5795	10.86	9.75	13.35	27.61	Pass
NVNT	ac20	5745	11.61	10.55	14.12	27.61	Pass
NVNT	ac20	5785	11.43	10.4	13.96	27.61	Pass
NVNT	ac20	5825	11.72	10.81	14.30	27.61	Pass
NVNT	ac40	5755	10.42	9.19	12.86	27.61	Pass
NVNT	ac40	5795	10.79	9.71	13.29	27.61	Pass
NVNT	ac80	5775	9.42	8.29	11.90	27.61	Pass





### C.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	Ant3	-0.67	0.24	-0.43	30	Pass
NVNT	a	5785	Ant3	-0.53	0.24	-0.29	30	Pass
NVNT	a	5825	Ant3	-1.45	0.24	-1.21	30	Pass
NVNT	n20	5745	Ant3	-2.28	0.28	-2	30	Pass
NVNT	n20	5785	Ant3	-2.57	0.28	-2.29	30	Pass
NVNT	n20	5825	Ant3	-2.4	0.28	-2.12	30	Pass
NVNT	n40	5755	Ant3	-6.82	0.12	-6.7	30	Pass
NVNT	n40	5795	Ant3	-5.97	0.12	-5.85	30	Pass
NVNT	ac20	5745	Ant3	-2.6	0.28	-2.32	30	Pass
NVNT	ac20	5785	Ant3	-2.77	0.28	-2.49	30	Pass
NVNT	ac20	5825	Ant3	-1.79	0.28	-1.51	30	Pass
NVNT	ac40	5755	Ant3	-5.68	0.12	-5.56	30	Pass
NVNT	ac40	5795	Ant3	-5.05	0.12	-4.93	30	Pass
NVNT	ac80	5775	Ant3	-10.03	0.25	-9.78	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	Ant4	-1.84	0.24	-1.6	30	Pass
NVNT	a	5785	Ant4	-1.71	0.24	-1.47	30	Pass
NVNT	a	5825	Ant4	-1.63	0.24	-1.39	30	Pass
NVNT	n20	5745	Ant4	-3.44	0.12	-3.32	30	Pass
NVNT	n20	5785	Ant4	-3.27	0.12	-3.15	30	Pass
NVNT	n20	5825	Ant4	-3.04	0.12	-2.92	30	Pass
NVNT	n40	5755	Ant4	-7.75	0.12	-7.63	30	Pass
NVNT	n40	5795	Ant4	-7.05	0.12	-6.93	30	Pass
NVNT	ac20	5745	Ant4	-3.51	0.12	-3.39	30	Pass
NVNT	ac20	5785	Ant4	-3.42	0.12	-3.3	30	Pass
NVNT	ac20	5825	Ant4	-3.18	0.12	-3.06	30	Pass
NVNT	ac40	5755	Ant4	-7.87	0.12	-7.75	30	Pass
NVNT	ac40	5795	Ant4	-7.15	0.12	-7.03	30	Pass
NVNT	ac80	5775	Ant4	-10.54	0.25	-10.29	30	Pass





MIMO

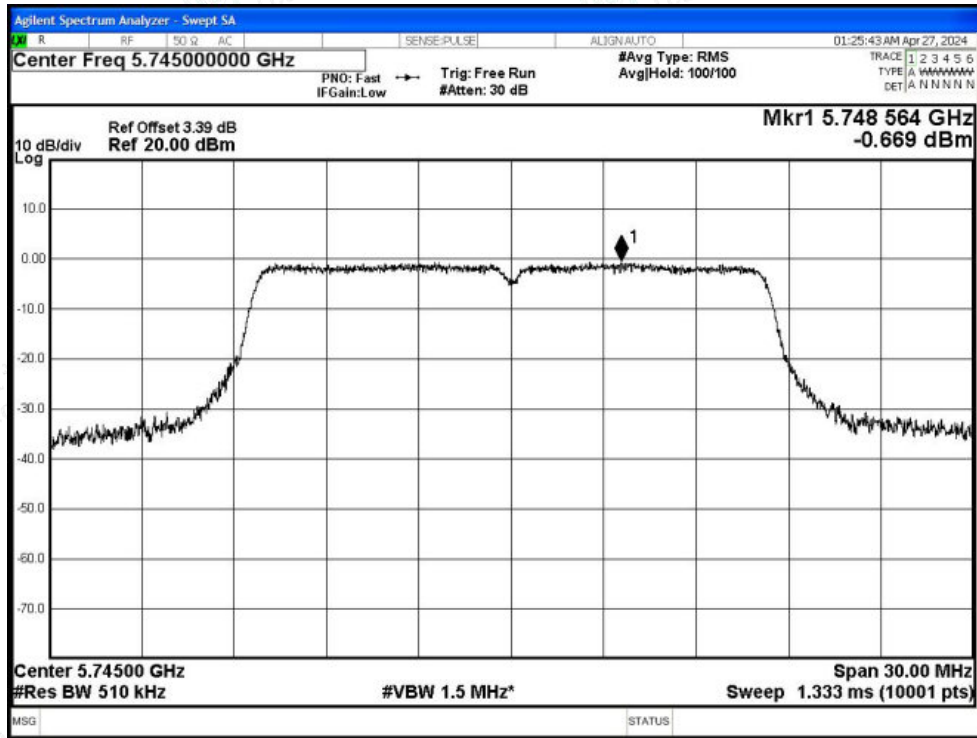
Condition	Mode	Frequency (MHz)	Total PSD (dBm/500KHz)			Limit (dBm/500KHz)	Verdict
			Ant3	Ant4	Ant3+Ant4		
NVNT	n20	5745	-2	-3.32	0.40	27.61	Pass
NVNT	n20	5785	-2.29	-3.15	0.31	27.61	Pass
NVNT	n20	5825	-2.12	-2.92	0.51	27.61	Pass
NVNT	n40	5755	-6.7	-7.63	-4.13	27.61	Pass
NVNT	n40	5795	-5.85	-6.93	-3.35	27.61	Pass
NVNT	ac20	5745	-2.32	-3.39	0.19	27.61	Pass
NVNT	ac20	5785	-2.49	-3.3	0.13	27.61	Pass
NVNT	ac20	5825	-1.51	-3.06	0.79	27.61	Pass
NVNT	ac40	5755	-5.56	-7.75	-3.51	27.61	Pass
NVNT	ac40	5795	-4.93	-7.03	-2.84	27.61	Pass
NVNT	ac80	5775	-9.78	-10.29	-7.02	27.61	Pass



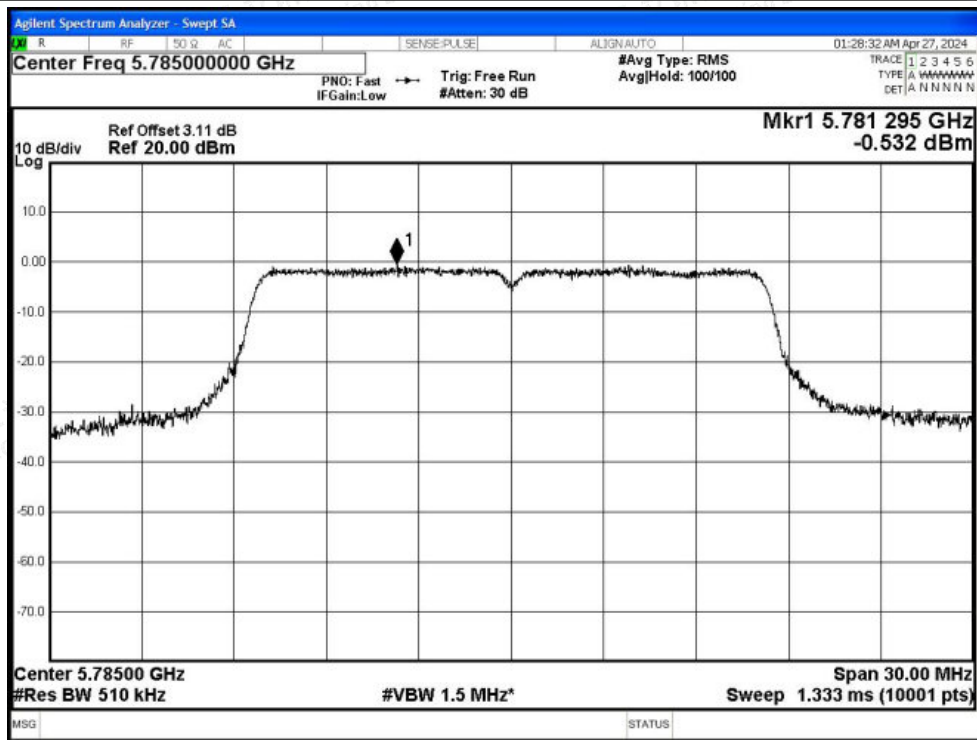


Test Graphs

PSD NVNT a 5745MHz Ant3

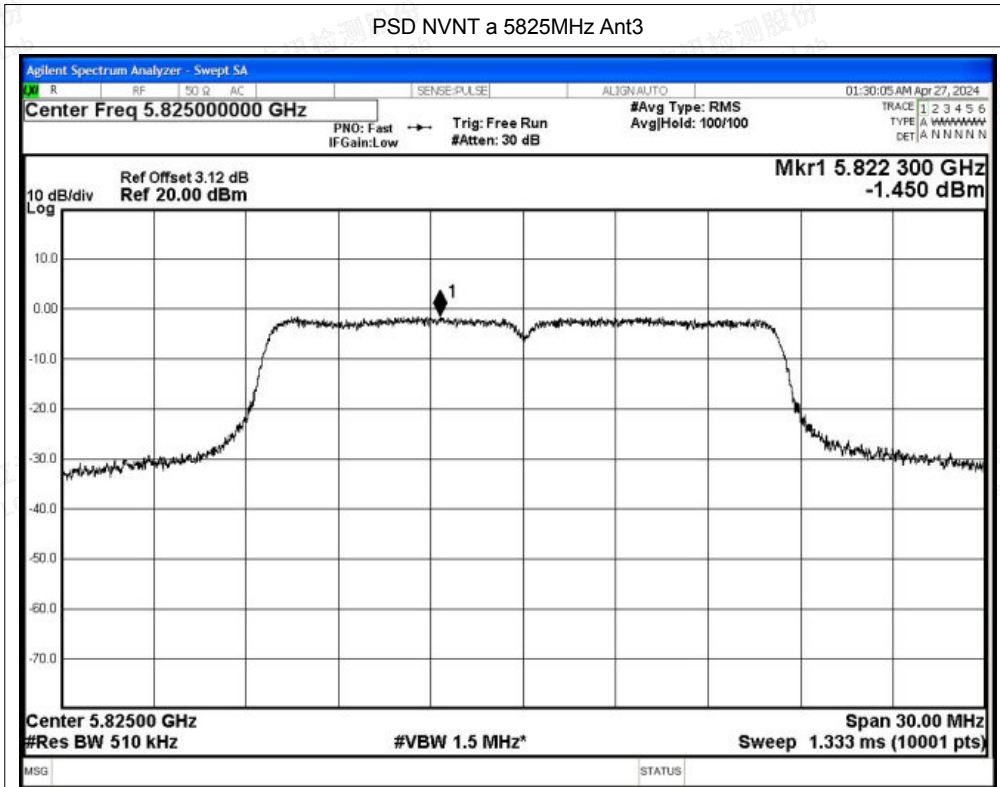


PSD NVNT a 5785MHz Ant3

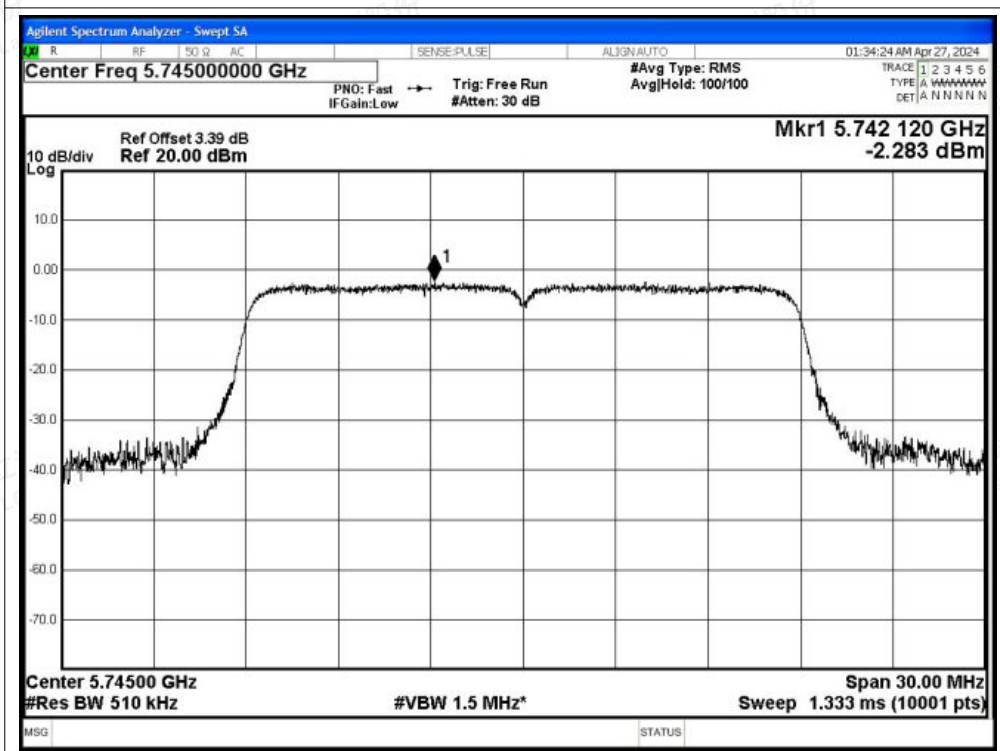




PSD NVNT a 5825MHz Ant3

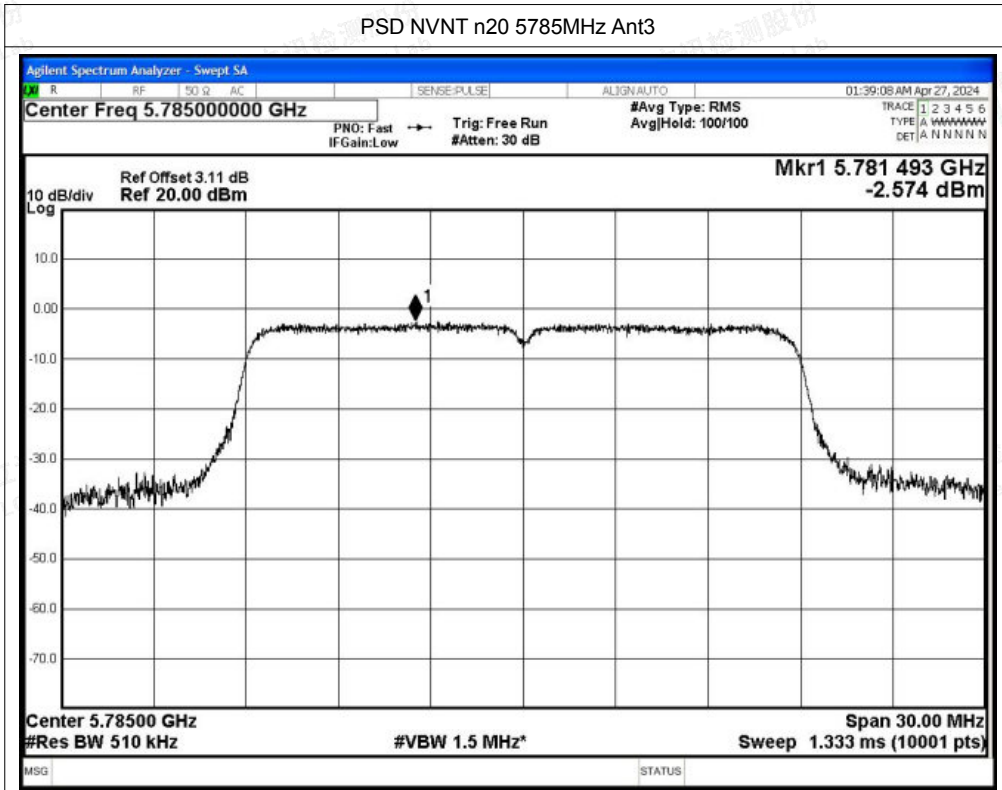


PSD NVNT n20 5745MHz Ant3

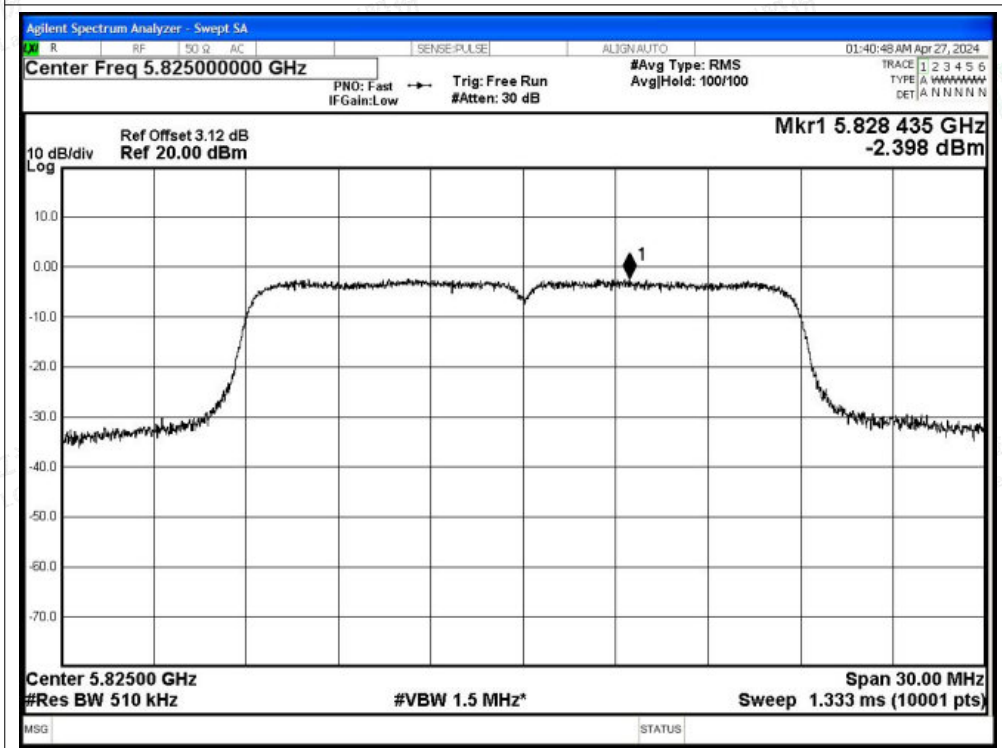




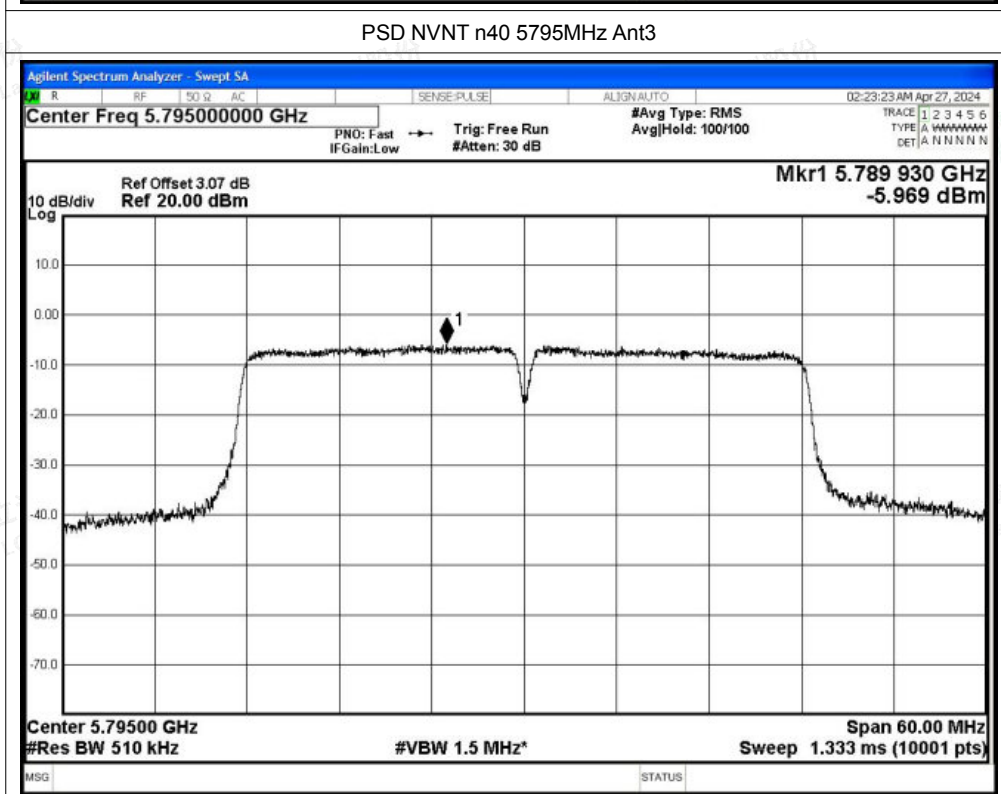
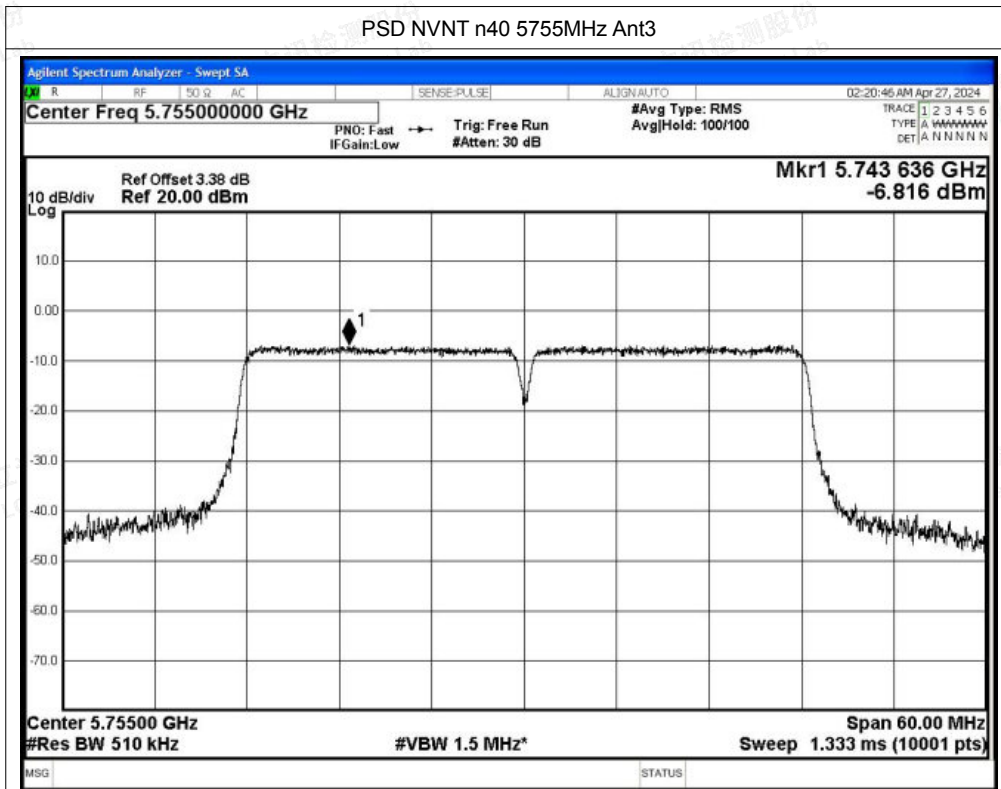
PSD NVNT n20 5785MHz Ant3

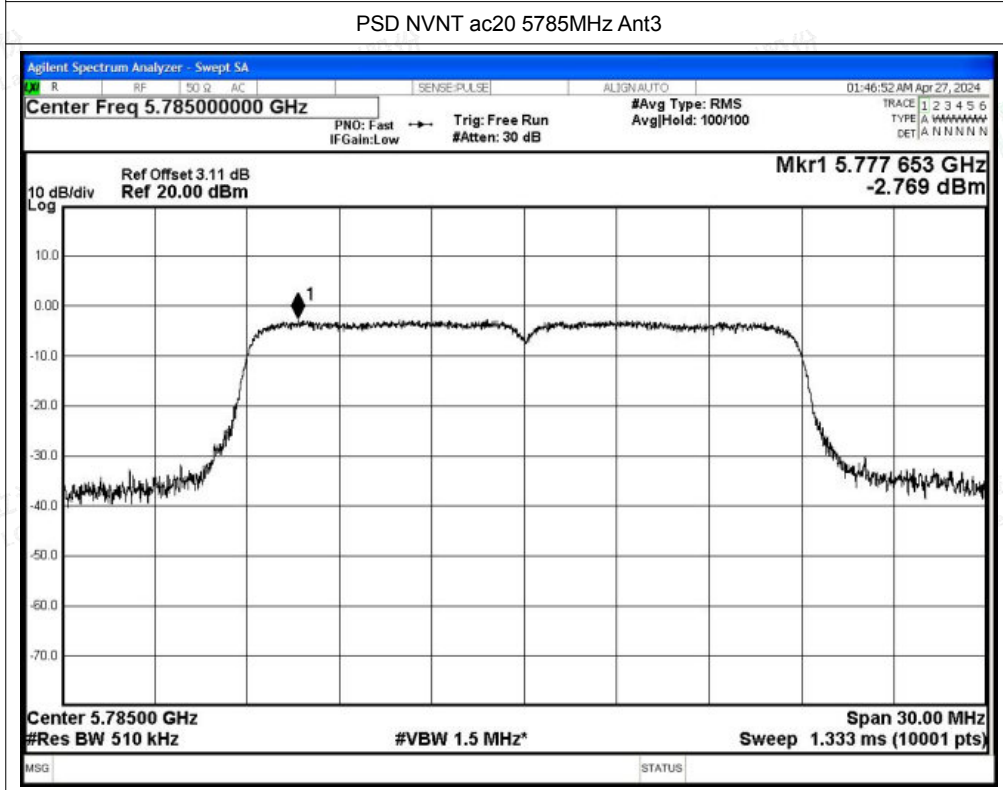
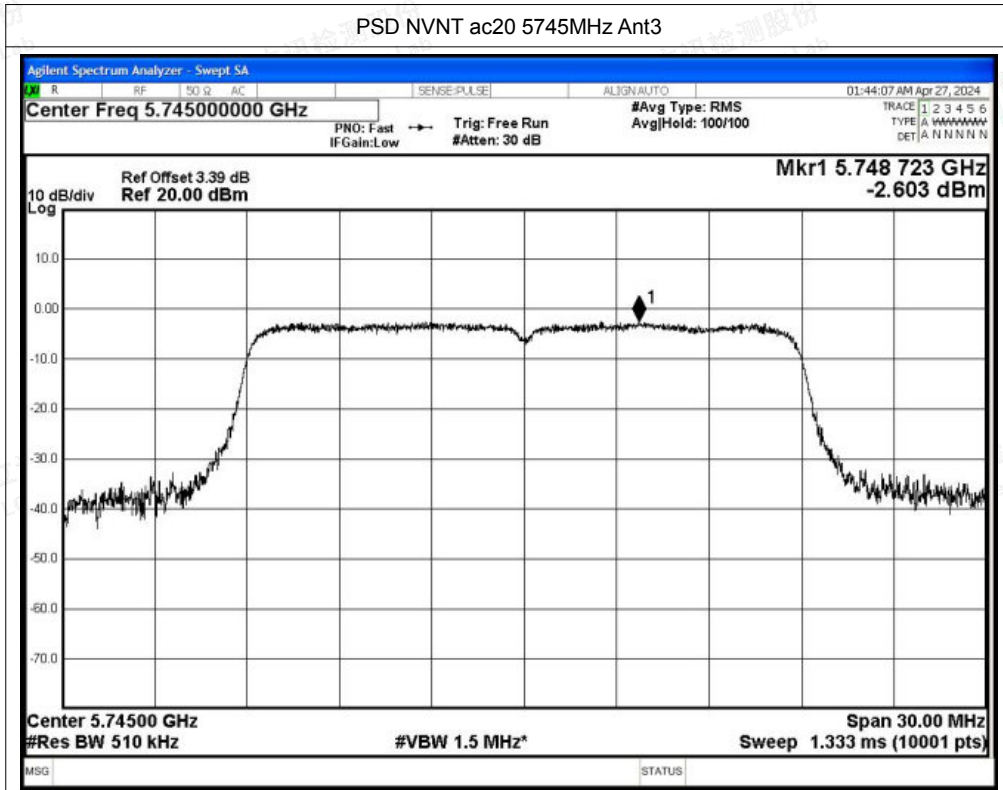


PSD NVNT n20 5825MHz Ant3



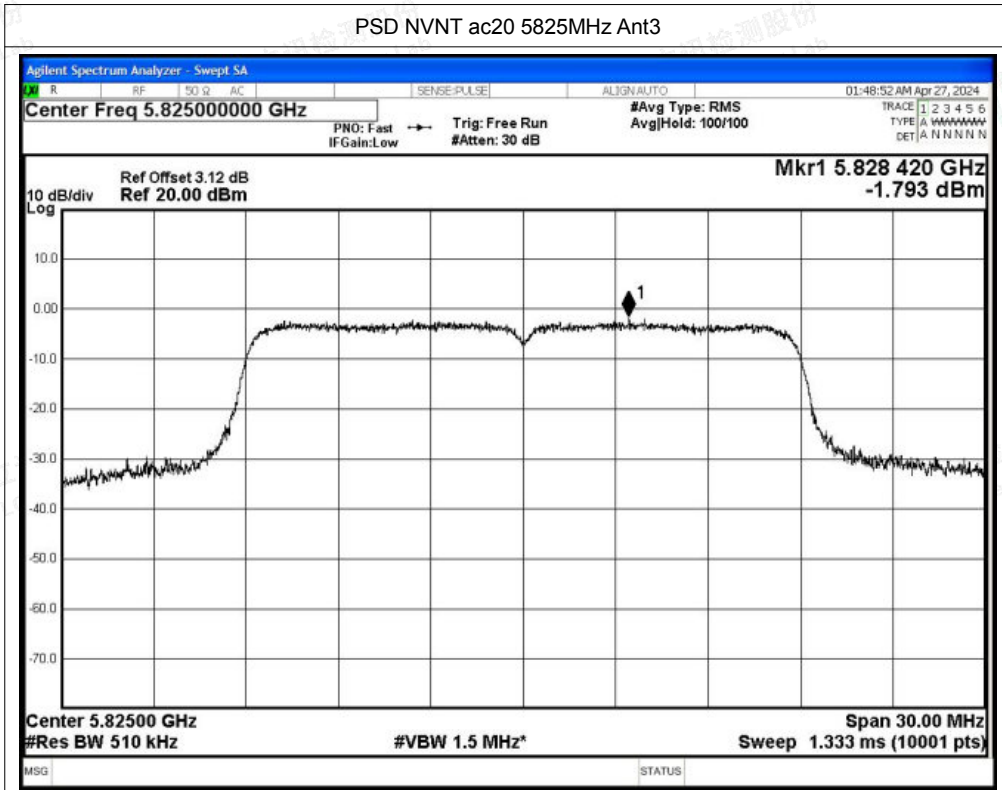




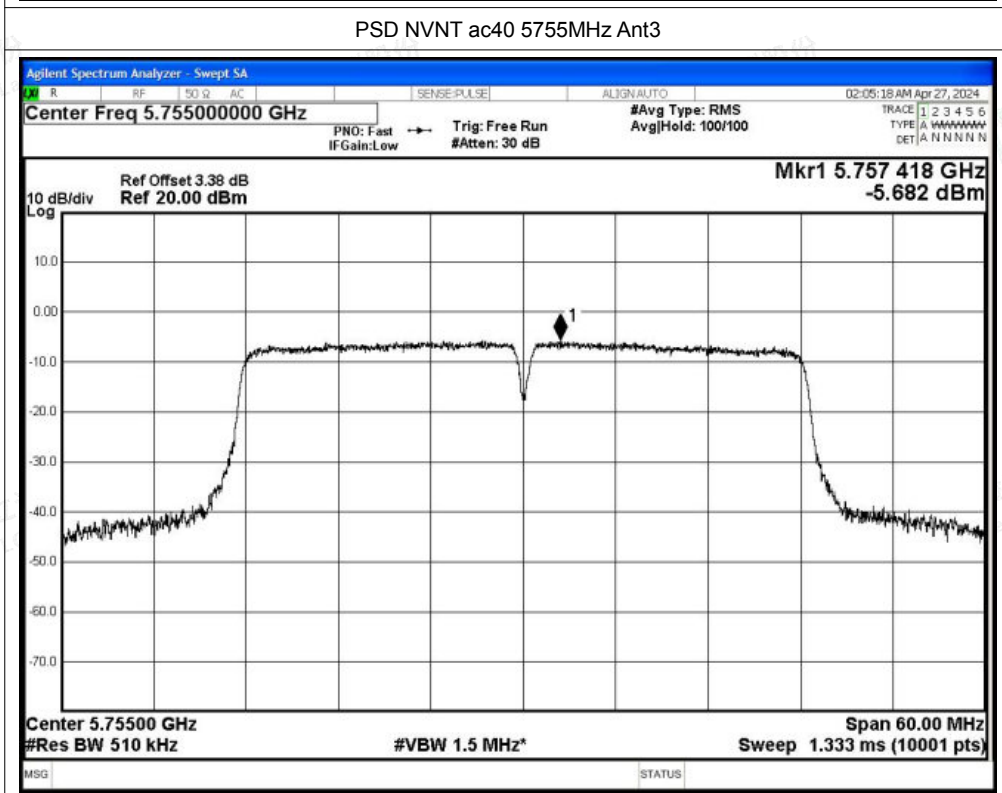




PSD NVNT ac20 5825MHz Ant3

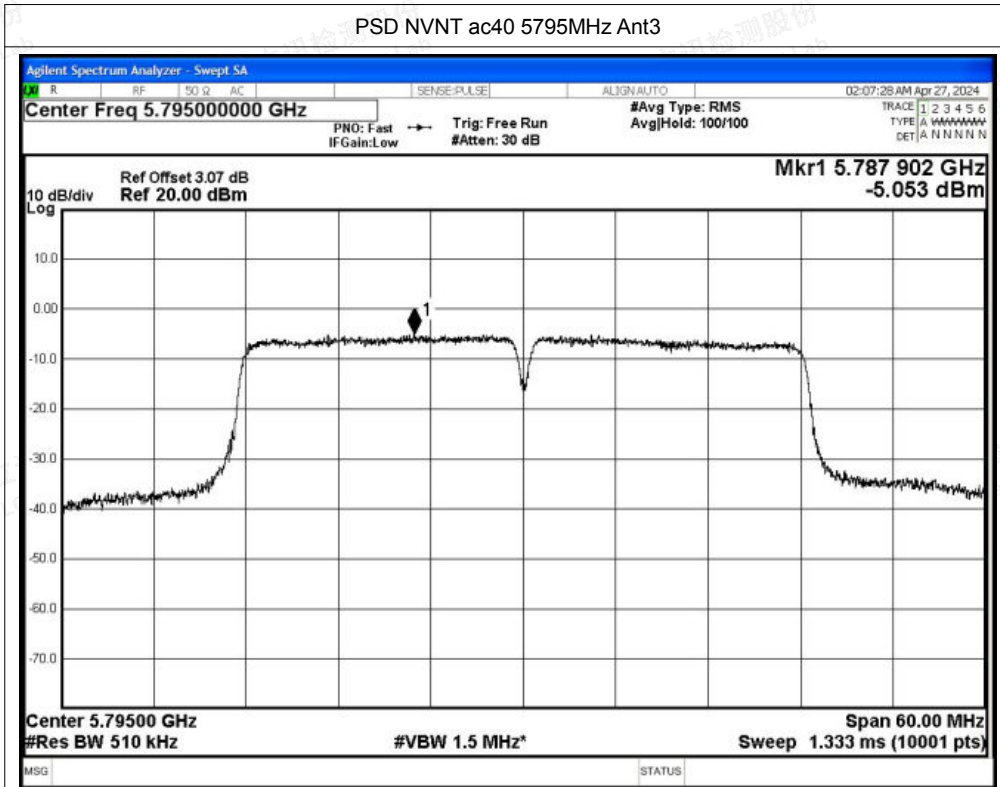


PSD NVNT ac40 5755MHz Ant3

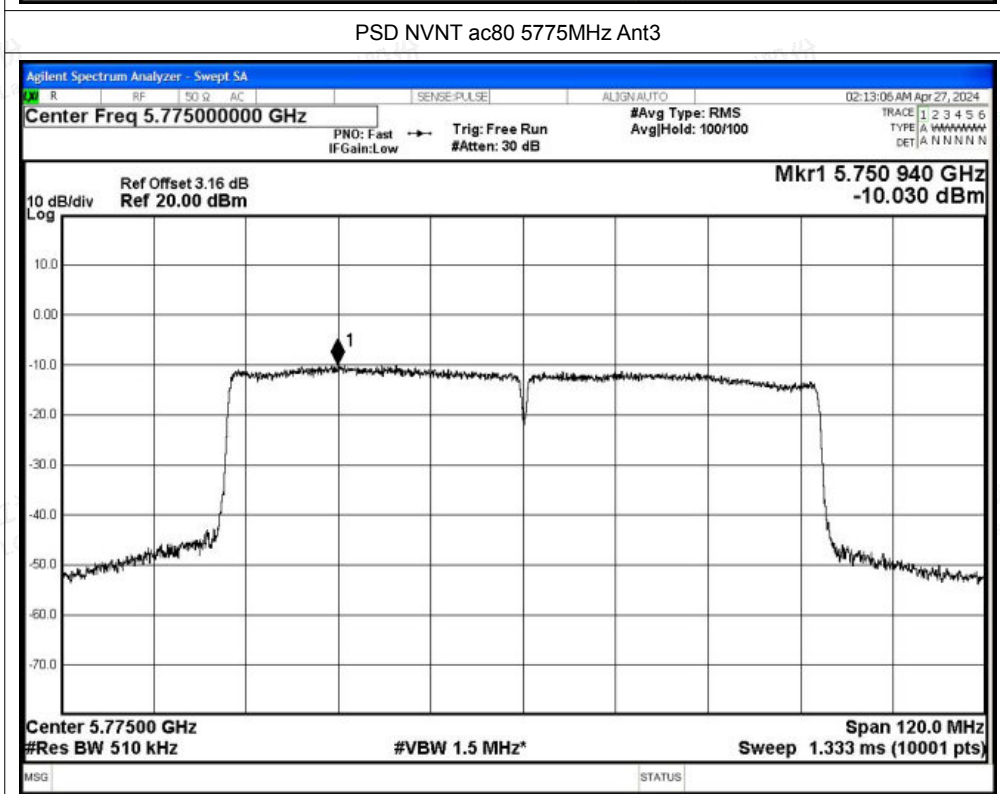




PSD NVNT ac40 5795MHz Ant3



PSD NVNT ac80 5775MHz Ant3





## C.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	Ant3	5650	-49.66	5.38	-	-44.28	Peak	-27	Pass
NVNT	a	5745	Ant3	5650	-58.15	5.38	0.24	-52.53	Average	-27	Pass
NVNT	a	5745	Ant3	5700	-48.94	5.38	-	-43.56	Peak	10	Pass
NVNT	a	5745	Ant3	5700	-57.59	5.38	0.24	-51.97	Average	10	Pass
NVNT	a	5745	Ant3	5720	-42.21	5.38	-	-36.83	Peak	15.6	Pass
NVNT	a	5745	Ant3	5720	-56.49	5.38	0.24	-50.87	Average	15.6	Pass
NVNT	a	5745	Ant3	5725	-38.08	5.38	-	-32.7	Peak	27	Pass
NVNT	a	5745	Ant3	5725	-52.45	5.38	0.24	-46.83	Average	27	Pass
NVNT	a	5825	Ant3	5850	-45.58	5.38	-	-40.2	Peak	27	Pass
NVNT	a	5825	Ant3	5850	-57.25	5.38	0.24	-51.63	Average	27	Pass
NVNT	a	5825	Ant3	5855	-49.61	5.38	-	-44.23	Peak	15.6	Pass
NVNT	a	5825	Ant3	5855	-57.64	5.38	0.24	-52.02	Average	15.6	Pass
NVNT	a	5825	Ant3	5875	-50.8	5.38	-	-45.42	Peak	10	Pass
NVNT	a	5825	Ant3	5875	-58.5	5.38	0.24	-52.88	Average	10	Pass
NVNT	a	5825	Ant3	5925	-49.58	5.38	-	-44.2	Peak	-27	Pass
NVNT	a	5825	Ant3	5925	-57.22	5.38	0.24	-51.6	Average	-27	Pass
NVNT	n20	5745	Ant3	5650	-50.29	5.38	-	-44.91	Peak	-27	Pass
NVNT	n20	5745	Ant3	5650	-58.24	5.38	0.28	-52.58	Average	-27	Pass
NVNT	n20	5745	Ant3	5700	-50.55	5.38	-	-45.17	Peak	10	Pass
NVNT	n20	5745	Ant3	5700	-57.7	5.38	0.28	-52.04	Average	10	Pass
NVNT	n20	5745	Ant3	5720	-40.64	5.38	-	-35.26	Peak	15.6	Pass
NVNT	n20	5745	Ant3	5720	-54.96	5.38	0.28	-49.3	Average	15.6	Pass
NVNT	n20	5745	Ant3	5725	-33.03	5.38	-	-27.65	Peak	27	Pass
NVNT	n20	5745	Ant3	5725	-51.52	5.38	0.28	-45.86	Average	27	Pass
NVNT	n20	5825	Ant3	5850	-42.72	5.38	-	-37.34	Peak	27	Pass
NVNT	n20	5825	Ant3	5850	-56.41	5.38	0.28	-50.75	Average	27	Pass
NVNT	n20	5825	Ant3	5855	-48.26	5.38	-	-42.88	Peak	15.6	Pass
NVNT	n20	5825	Ant3	5855	-57.42	5.38	0.28	-51.76	Average	15.6	Pass
NVNT	n20	5825	Ant3	5875	-50.41	5.38	-	-45.03	Peak	10	Pass
NVNT	n20	5825	Ant3	5875	-57.75	5.38	0.28	-52.09	Average	10	Pass
NVNT	n20	5825	Ant3	5925	-48.7	5.38	-	-43.32	Peak	-27	Pass
NVNT	n20	5825	Ant3	5925	-58.14	5.38	0.28	-52.48	Average	-27	Pass
NVNT	n40	5755	Ant3	5650	-50.05	5.38	-	-44.67	Peak	-27	Pass
NVNT	n40	5755	Ant3	5650	-57.9	5.38	0.12	-52.4	Average	-27	Pass
NVNT	n40	5755	Ant3	5700	-49.84	5.38	-	-44.46	Peak	10	Pass
NVNT	n40	5755	Ant3	5700	-57.85	5.38	0.12	-52.35	Average	10	Pass





NVNT	n40	5755	Ant3	5720	-44.68	5.38	-	-39.3	Peak	15.6	Pass
NVNT	n40	5755	Ant3	5720	-56.03	5.38	0.12	-50.53	Average	15.6	Pass
NVNT	n40	5755	Ant3	5725	-38.32	5.38	-	-32.94	Peak	27	Pass
NVNT	n40	5755	Ant3	5725	-51.76	5.38	0.12	-46.26	Average	27	Pass
NVNT	n40	5795	Ant3	5850	-49.92	5.38	-	-44.54	Peak	27	Pass
NVNT	n40	5795	Ant3	5850	-58.62	5.38	0.23	-53.01	Average	27	Pass
NVNT	n40	5795	Ant3	5855	-50.05	5.38	-	-44.67	Peak	15.6	Pass
NVNT	n40	5795	Ant3	5855	-58.58	5.38	0.23	-52.97	Average	15.6	Pass
NVNT	n40	5795	Ant3	5875	-50.33	5.38	-	-44.95	Peak	10	Pass
NVNT	n40	5795	Ant3	5875	-58.39	5.38	0.23	-52.78	Average	10	Pass
NVNT	n40	5795	Ant3	5925	-49.49	5.38	-	-44.11	Peak	-27	Pass
NVNT	n40	5795	Ant3	5925	-57.92	5.38	0.23	-52.31	Average	-27	Pass
NVNT	ac20	5745	Ant3	5650	-50.25	5.38	-	-44.87	Peak	-27	Pass
NVNT	ac20	5745	Ant3	5650	-57.8	5.38	0.28	-52.14	Average	-27	Pass
NVNT	ac20	5745	Ant3	5700	-49.33	5.38	-	-43.95	Peak	10	Pass
NVNT	ac20	5745	Ant3	5700	-58.13	5.38	0.28	-52.47	Average	10	Pass
NVNT	ac20	5745	Ant3	5720	-37.45	5.38	-	-32.07	Peak	15.6	Pass
NVNT	ac20	5745	Ant3	5720	-53.92	5.38	0.28	-48.26	Average	15.6	Pass
NVNT	ac20	5745	Ant3	5725	-33.24	5.38	-	-27.86	Peak	27	Pass
NVNT	ac20	5745	Ant3	5725	-52.09	5.38	0.28	-46.43	Average	27	Pass
NVNT	ac20	5825	Ant3	5850	-42.43	5.38	-	-37.05	Peak	27	Pass
NVNT	ac20	5825	Ant3	5850	-55.4	5.38	0.28	-49.74	Average	27	Pass
NVNT	ac20	5825	Ant3	5855	-49	5.38	-	-43.62	Peak	15.6	Pass
NVNT	ac20	5825	Ant3	5855	-57.68	5.38	0.28	-52.02	Average	15.6	Pass
NVNT	ac20	5825	Ant3	5875	-50.98	5.38	-	-45.6	Peak	10	Pass
NVNT	ac20	5825	Ant3	5875	-58.01	5.38	0.28	-52.35	Average	10	Pass
NVNT	ac20	5825	Ant3	5925	-49.5	5.38	-	-44.12	Peak	-27	Pass
NVNT	ac20	5825	Ant3	5925	-58.11	5.38	0.28	-52.45	Average	-27	Pass
NVNT	ac40	5755	Ant3	5650	-47.35	5.38	-	-41.97	Peak	-27	Pass
NVNT	ac40	5755	Ant3	5650	-58.29	5.38	0.24	-52.67	Average	-27	Pass
NVNT	ac40	5755	Ant3	5700	-49.75	5.38	-	-44.37	Peak	10	Pass
NVNT	ac40	5755	Ant3	5700	-58.14	5.38	0.24	-52.52	Average	10	Pass
NVNT	ac40	5755	Ant3	5720	-44.72	5.38	-	-39.34	Peak	15.6	Pass
NVNT	ac40	5755	Ant3	5720	-54.69	5.38	0.24	-49.07	Average	15.6	Pass
NVNT	ac40	5755	Ant3	5725	-41.1	5.38	-	-35.72	Peak	27	Pass
NVNT	ac40	5755	Ant3	5725	-52.03	5.38	0.24	-46.41	Average	27	Pass
NVNT	ac40	5795	Ant3	5850	-50.81	5.38	-	-45.43	Peak	27	Pass
NVNT	ac40	5795	Ant3	5850	-58.52	5.38	0.12	-53.02	Average	27	Pass
NVNT	ac40	5795	Ant3	5855	-51.36	5.38	-	-45.98	Peak	15.6	Pass
NVNT	ac40	5795	Ant3	5855	-58.42	5.38	0.12	-52.92	Average	15.6	Pass
NVNT	ac40	5795	Ant3	5875	-50.44	5.38	-	-45.06	Peak	10	Pass

