

FCC Appendix RF Test Data for 5.8GWIFI

Product Name: Smart Diagnostic System

Test Model: P902

Environmental Conditions

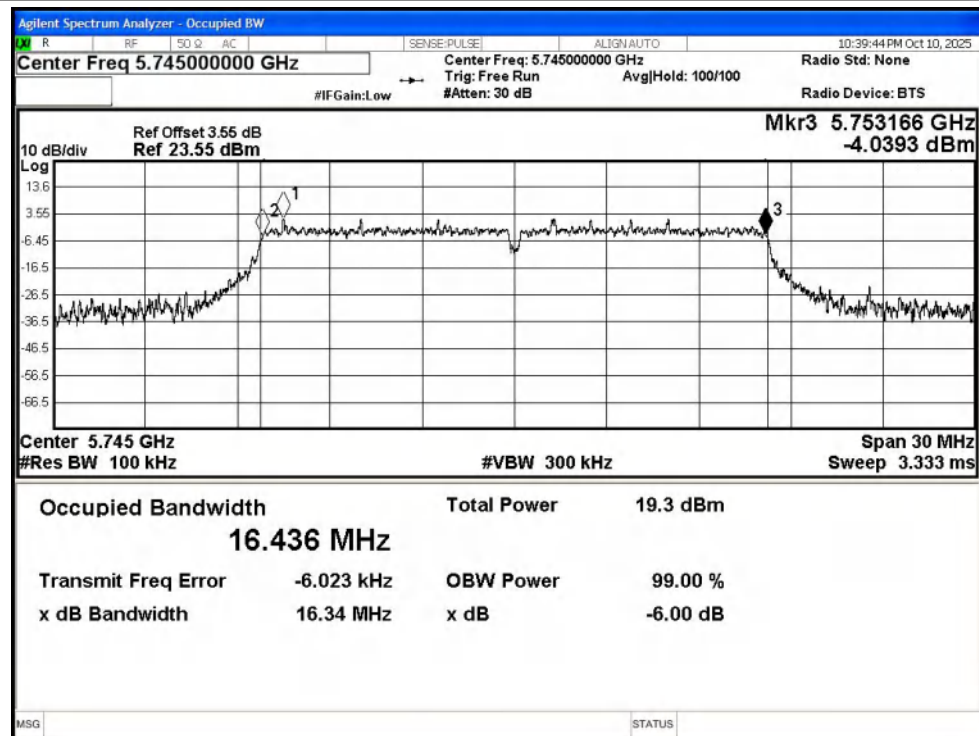
Temperature:	23.8 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1. -6dB Bandwidth

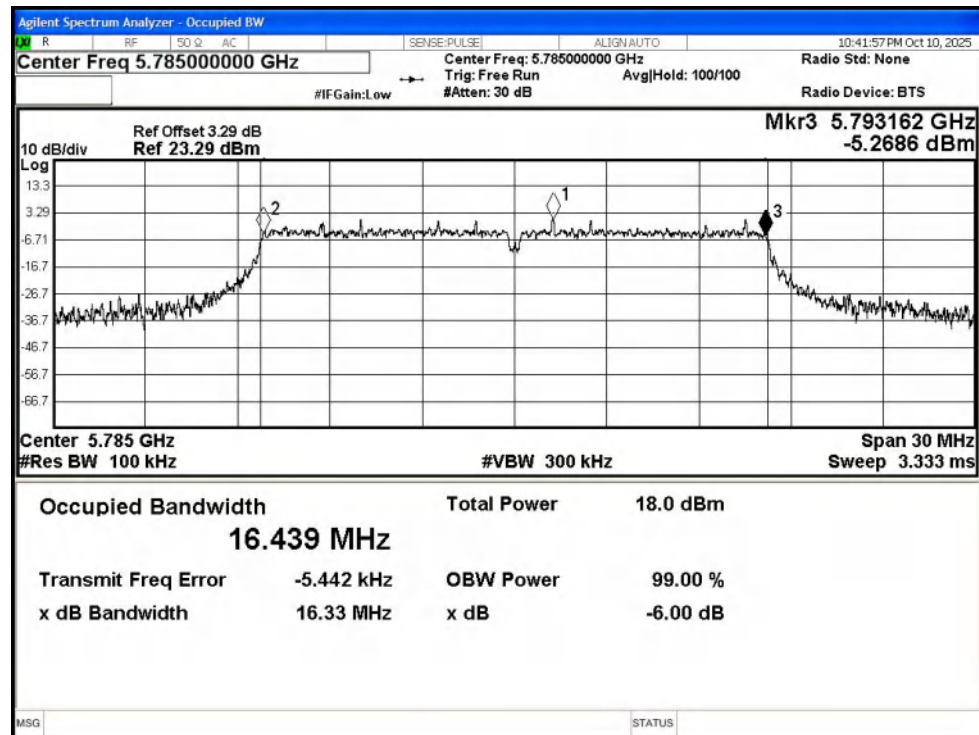
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant0	16.344	≥ 0.5	Pass
NVNT	a	5785	Ant0	16.334	≥ 0.5	Pass
NVNT	a	5825	Ant0	16.346	≥ 0.5	Pass
NVNT	n20	5745	Ant0	17.557	≥ 0.5	Pass
NVNT	n20	5785	Ant0	17.42	≥ 0.5	Pass
NVNT	n20	5825	Ant0	17.377	≥ 0.5	Pass
NVNT	n40	5755	Ant0	36.253	≥ 0.5	Pass
NVNT	n40	5795	Ant0	36.005	≥ 0.5	Pass
NVNT	ac20	5745	Ant0	17.576	≥ 0.5	Pass
NVNT	ac20	5785	Ant0	17.428	≥ 0.5	Pass
NVNT	ac20	5825	Ant0	17.374	≥ 0.5	Pass
NVNT	ac40	5755	Ant0	36.015	≥ 0.5	Pass
NVNT	ac40	5795	Ant0	35.997	≥ 0.5	Pass
NVNT	ac80	5775	Ant0	75.51	≥ 0.5	Pass

Test Graphs

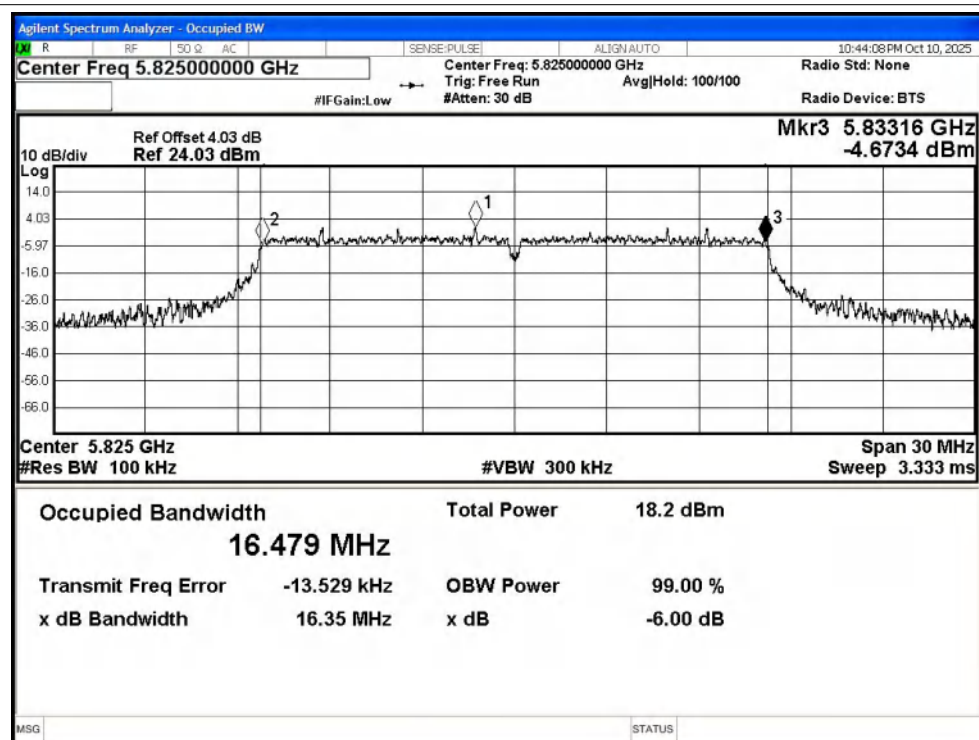
-6dB Bandwidth NVNT a 5745MHz Ant0



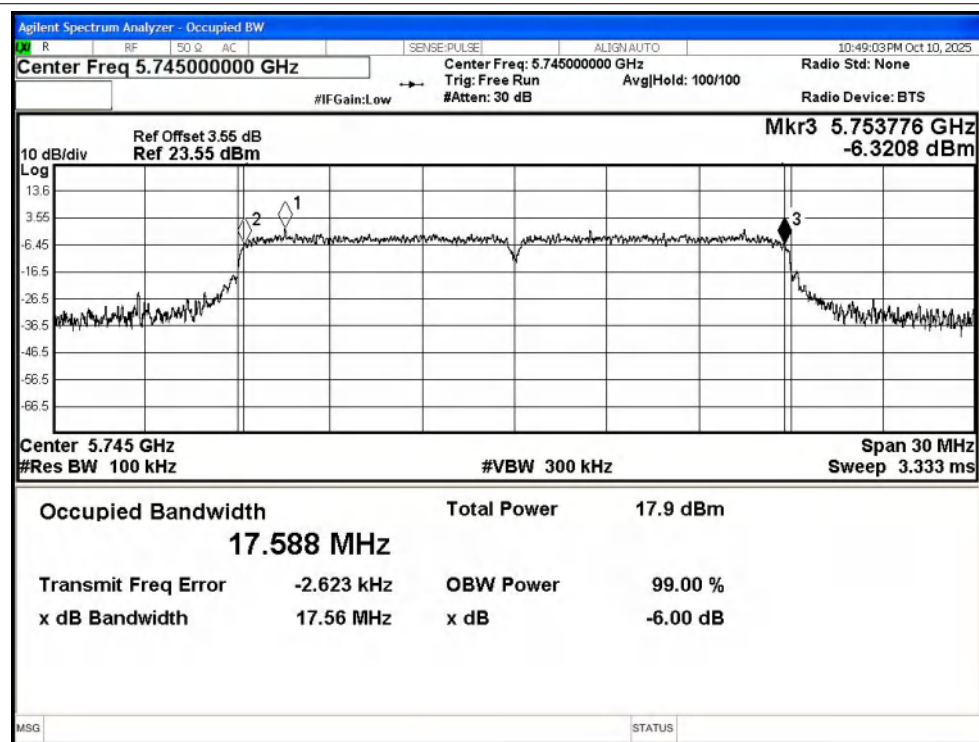
-6dB Bandwidth NVNT a 5785MHz Ant0



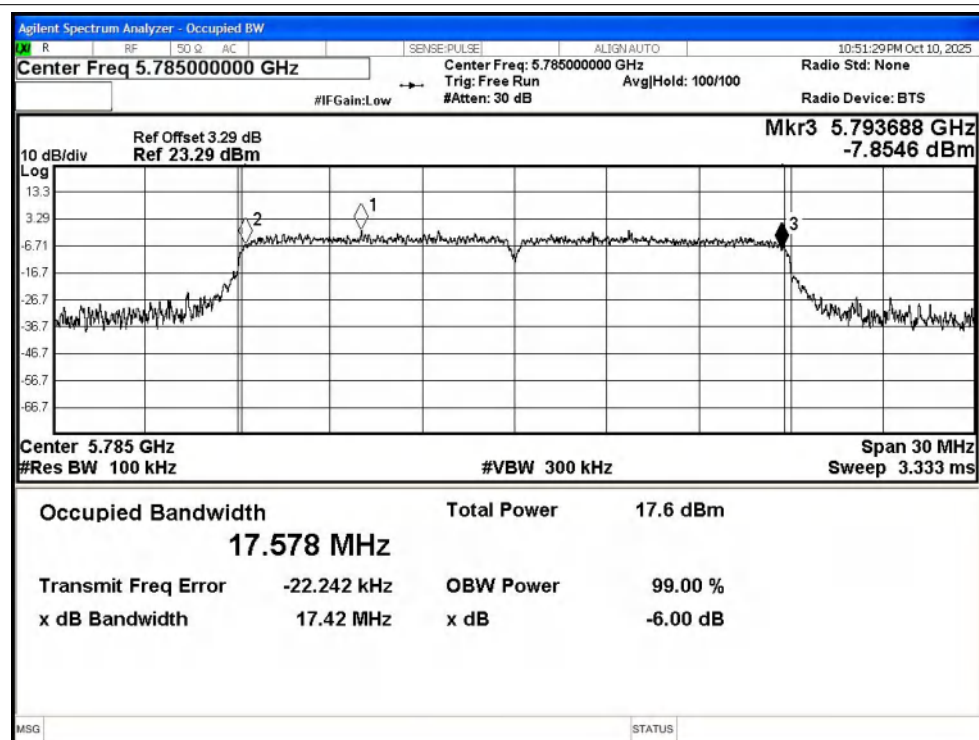
-6dB Bandwidth NVNT a 5825MHz Ant0



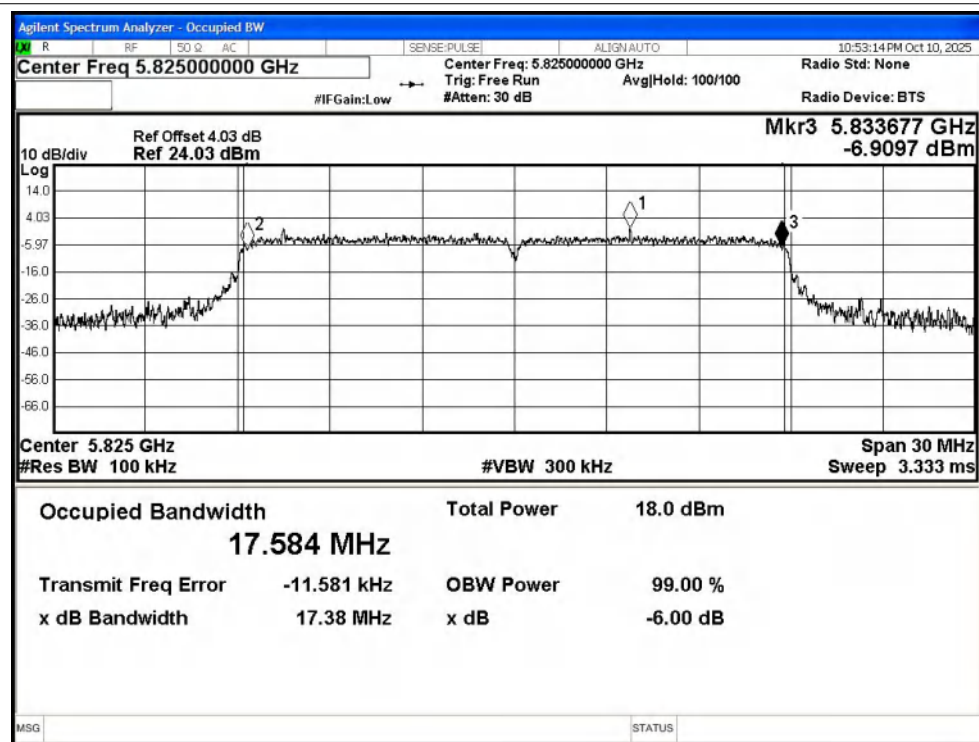
-6dB Bandwidth NVNT n20 5745MHz Ant0



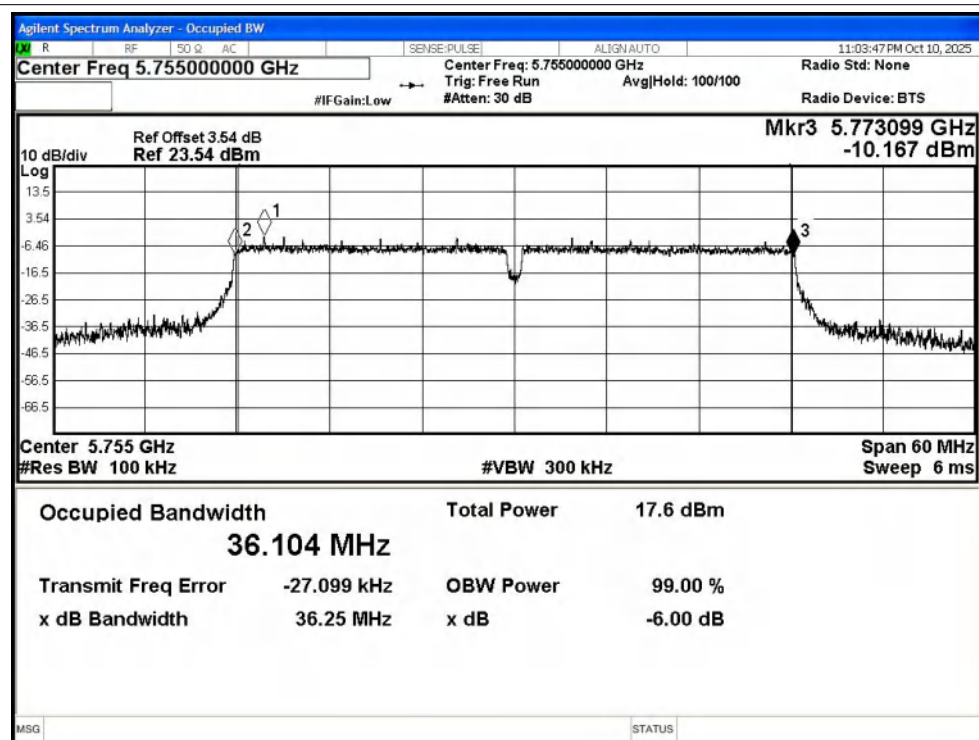
-6dB Bandwidth NVNT n20 5785MHz Ant0



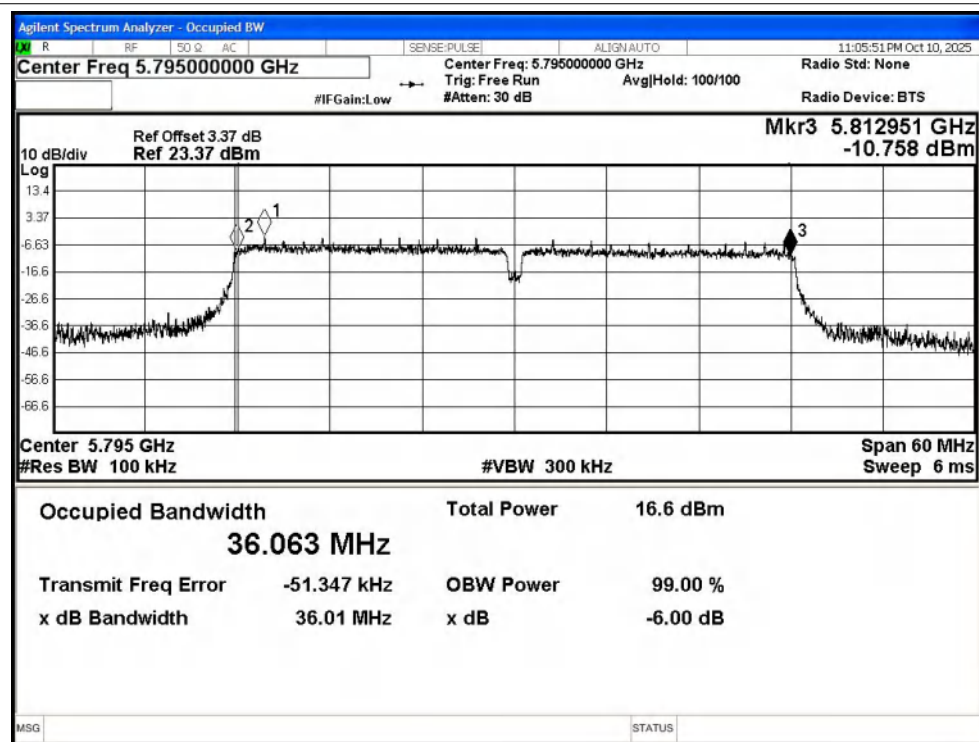
-6dB Bandwidth NVNT n20 5825MHz Ant0



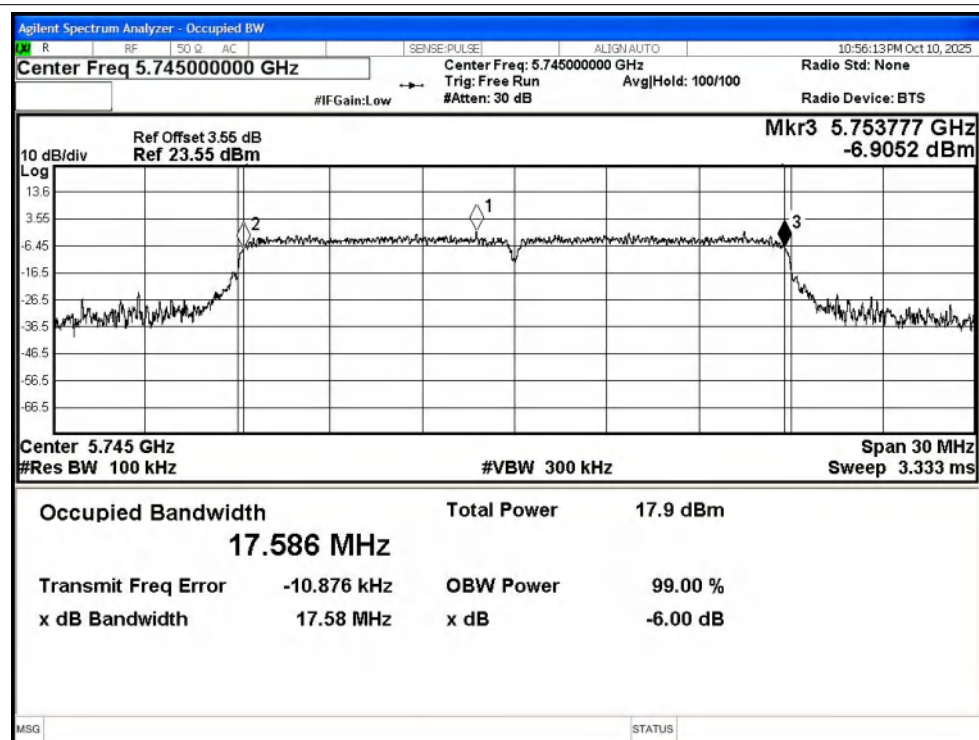
-6dB Bandwidth NVNT n40 5755MHz Ant0



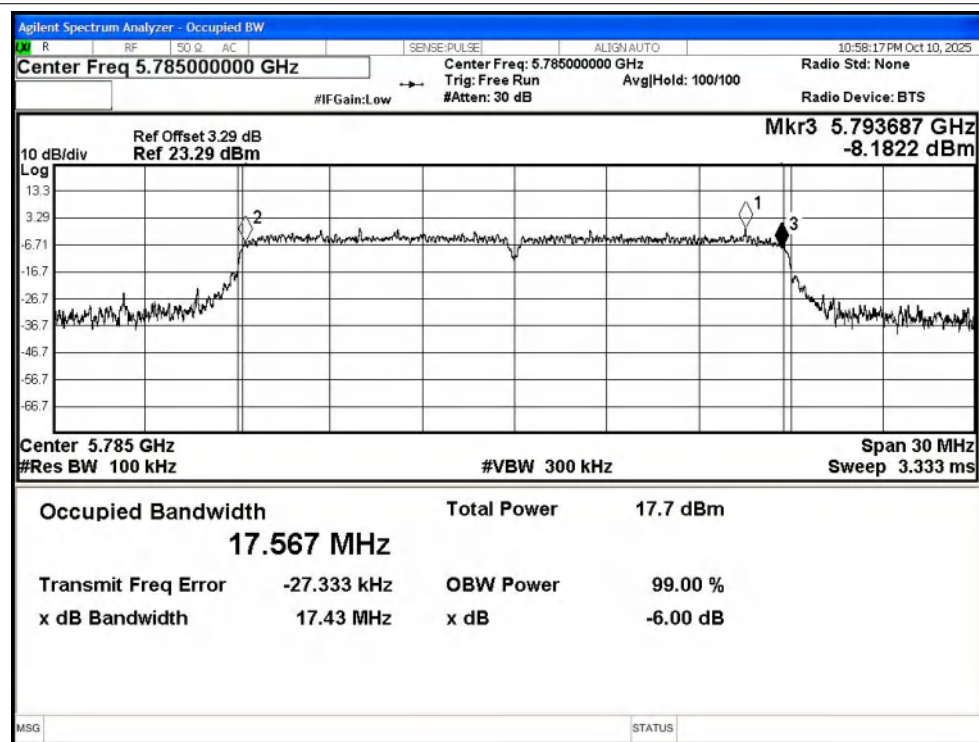
-6dB Bandwidth NVNT n40 5795MHz Ant0



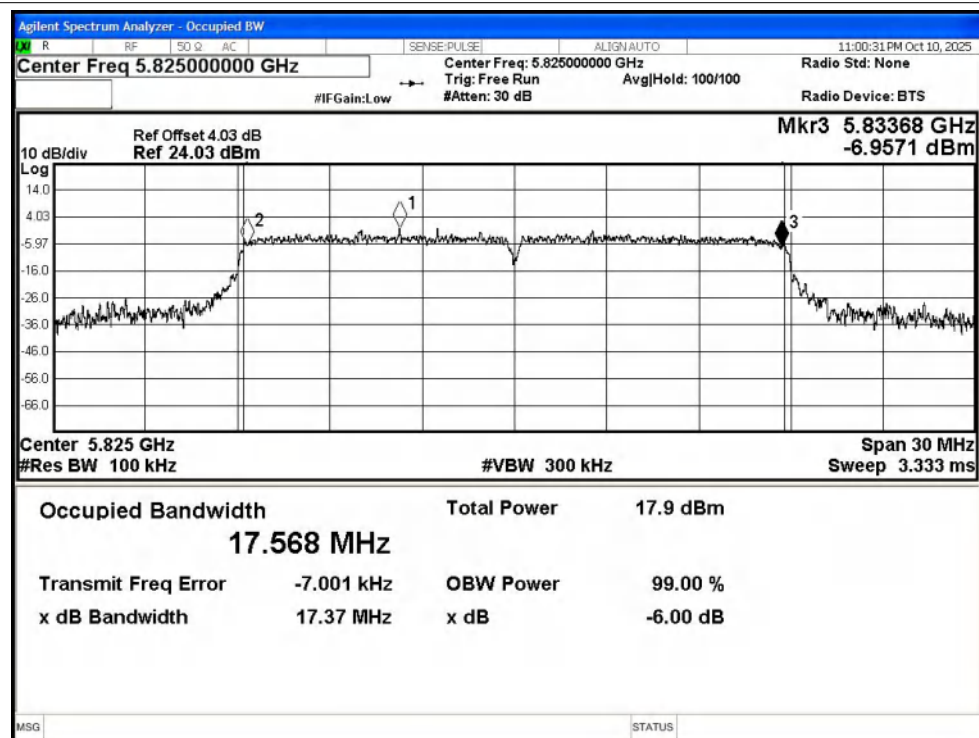
-6dB Bandwidth NVNT ac20 5745MHz Ant0



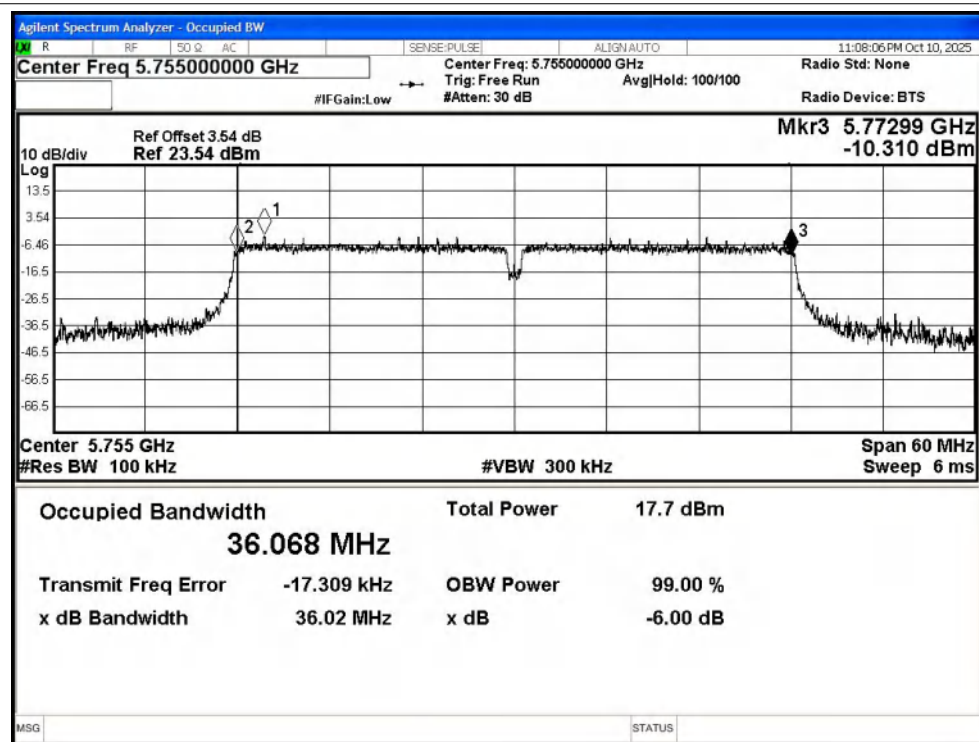
-6dB Bandwidth NVNT ac20 5785MHz Ant0



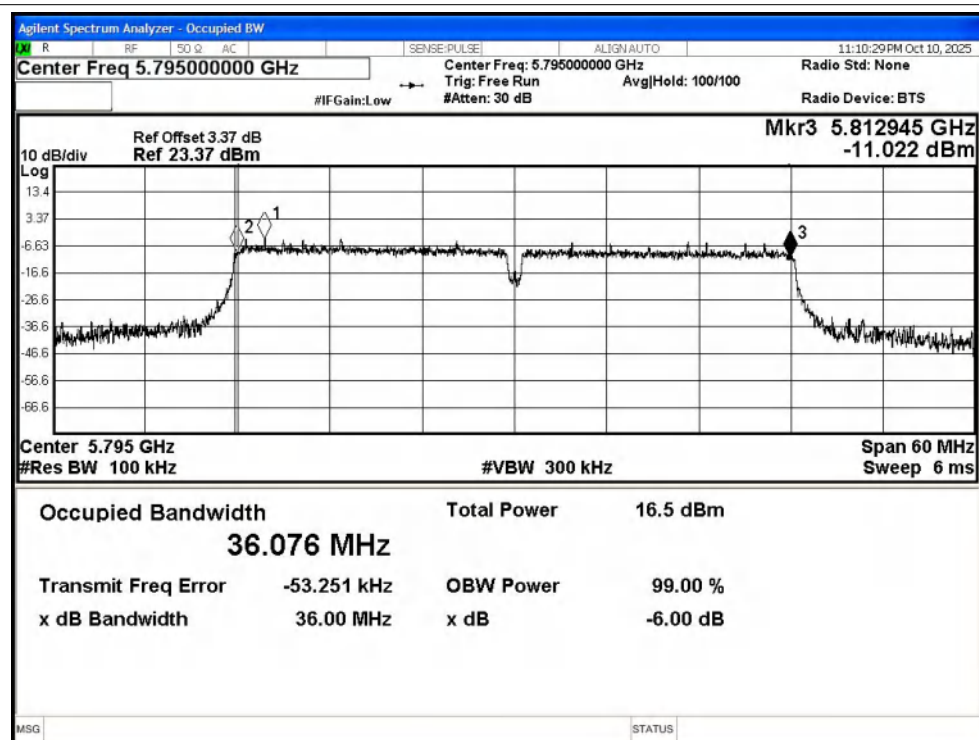
-6dB Bandwidth NVNT ac20 5825MHz Ant0



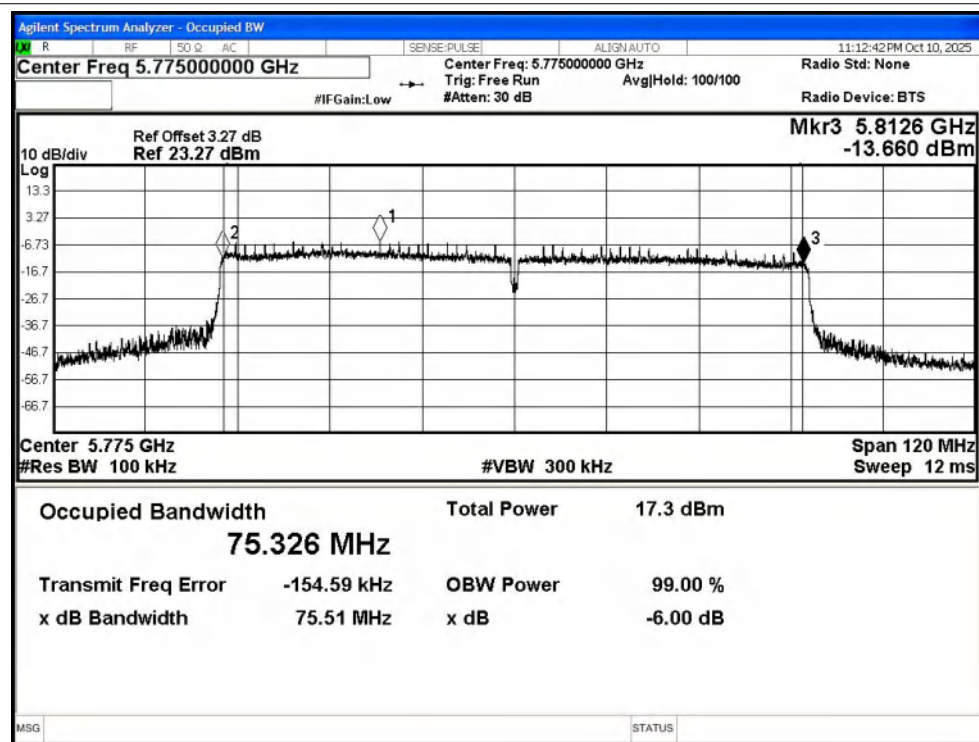
-6dB Bandwidth NVNT ac40 5755MHz Ant0



-6dB Bandwidth NVNT ac40 5795MHz Ant0



-6dB Bandwidth NVNT ac80 5775MHz Ant0



2. Maximum Conducted Output Power

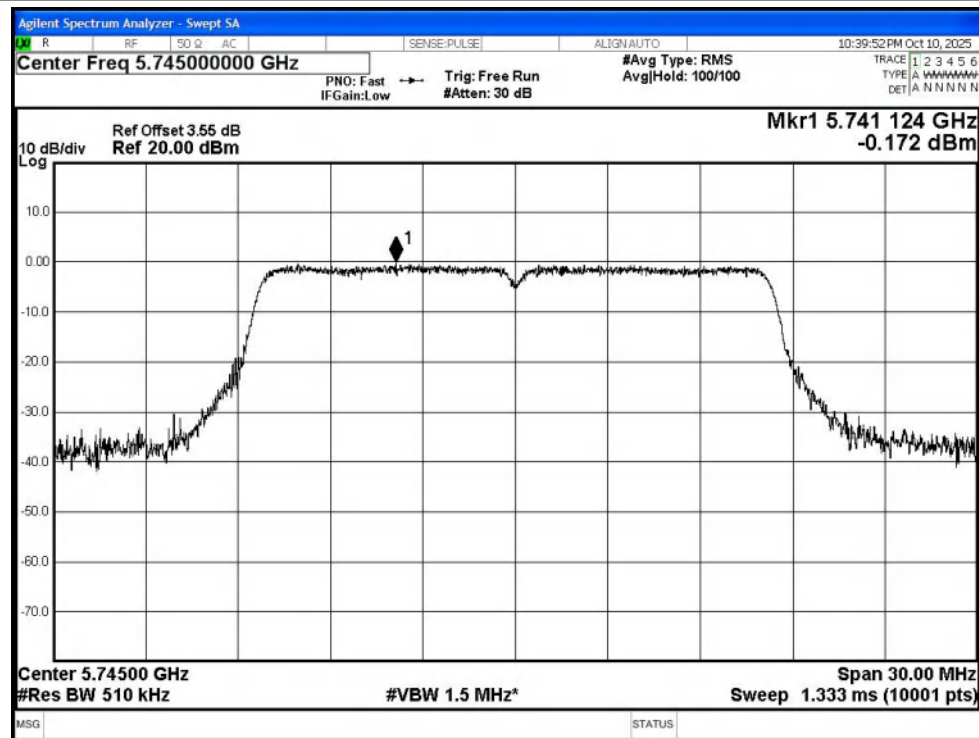
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant0	13.24	0.24	13.48	30	Pass
NVNT	a	5785	Ant0	12	0.24	12.24	30	Pass
NVNT	a	5825	Ant0	12.28	0.24	12.52	30	Pass
NVNT	n20	5745	Ant0	11.77	0.12	11.89	30	Pass
NVNT	n20	5785	Ant0	11.51	0.12	11.63	30	Pass
NVNT	n20	5825	Ant0	11.84	0.12	11.96	30	Pass
NVNT	n40	5755	Ant0	11.12	0.24	11.36	30	Pass
NVNT	n40	5795	Ant0	9.96	0.24	10.20	30	Pass
NVNT	ac20	5745	Ant0	11.76	0.12	11.88	30	Pass
NVNT	ac20	5785	Ant0	11.51	0.12	11.63	30	Pass
NVNT	ac20	5825	Ant0	11.75	0.12	11.87	30	Pass
NVNT	ac40	5755	Ant0	11.13	0.24	11.37	30	Pass
NVNT	ac40	5795	Ant0	10.06	0.24	10.30	30	Pass
NVNT	ac80	5775	Ant0	10.14	0.47	10.61	30	Pass

3. Maximum Power Spectral Density Level

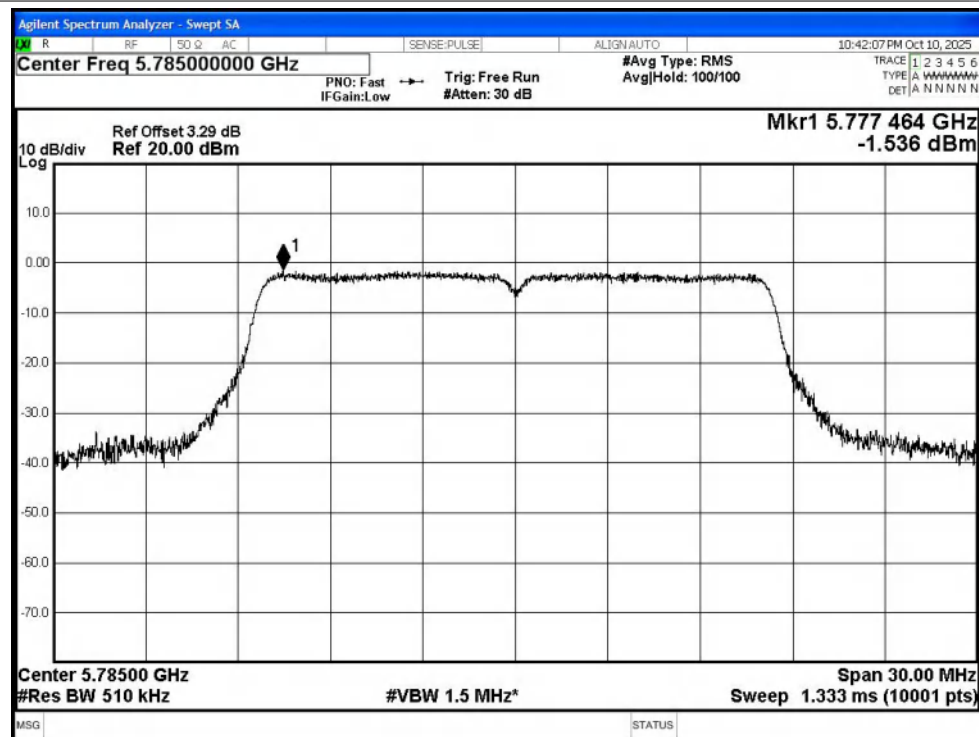
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant0	-0.17	0.24	0.07	30	Pass
NVNT	a	5785	Ant0	-1.54	0.24	-1.3	30	Pass
NVNT	a	5825	Ant0	-1.4	0.24	-1.16	30	Pass
NVNT	n20	5745	Ant0	-2	0.12	-1.88	30	Pass
NVNT	n20	5785	Ant0	-2.42	0.12	-2.3	30	Pass
NVNT	n20	5825	Ant0	-1.97	0.12	-1.85	30	Pass
NVNT	n40	5755	Ant0	-5.68	0.24	-5.44	30	Pass
NVNT	n40	5795	Ant0	-6.38	0.24	-6.14	30	Pass
NVNT	ac20	5745	Ant0	-1.81	0.12	-1.69	30	Pass
NVNT	ac20	5785	Ant0	-2.21	0.12	-2.09	30	Pass
NVNT	ac20	5825	Ant0	-2.06	0.12	-1.94	30	Pass
NVNT	ac40	5755	Ant0	-5.48	0.24	-5.24	30	Pass
NVNT	ac40	5795	Ant0	-6.54	0.24	-6.3	30	Pass
NVNT	ac80	5775	Ant0	-8.32	0.47	-7.85	30	Pass

Test Graphs

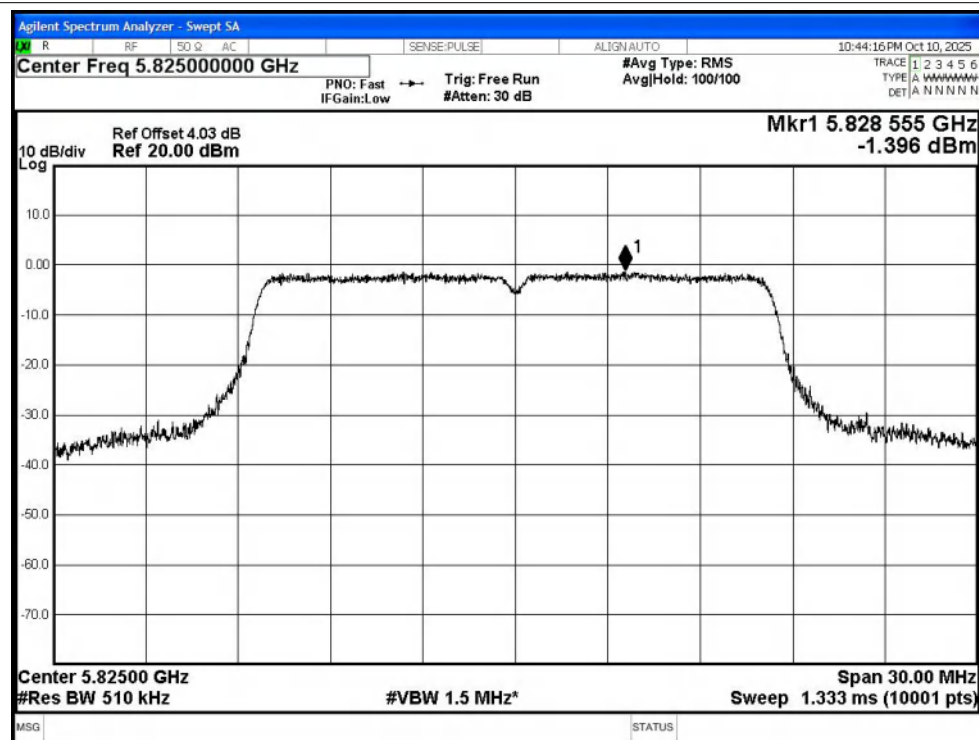
PSD NVNT a 5745MHz Ant0



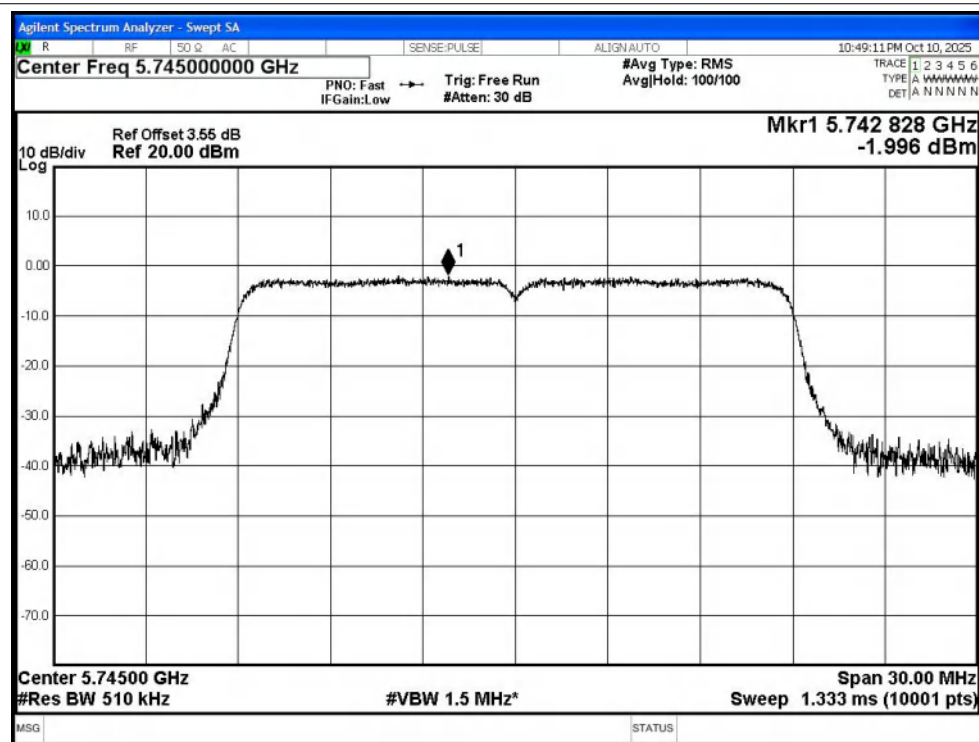
PSD NVNT a 5785MHz Ant0



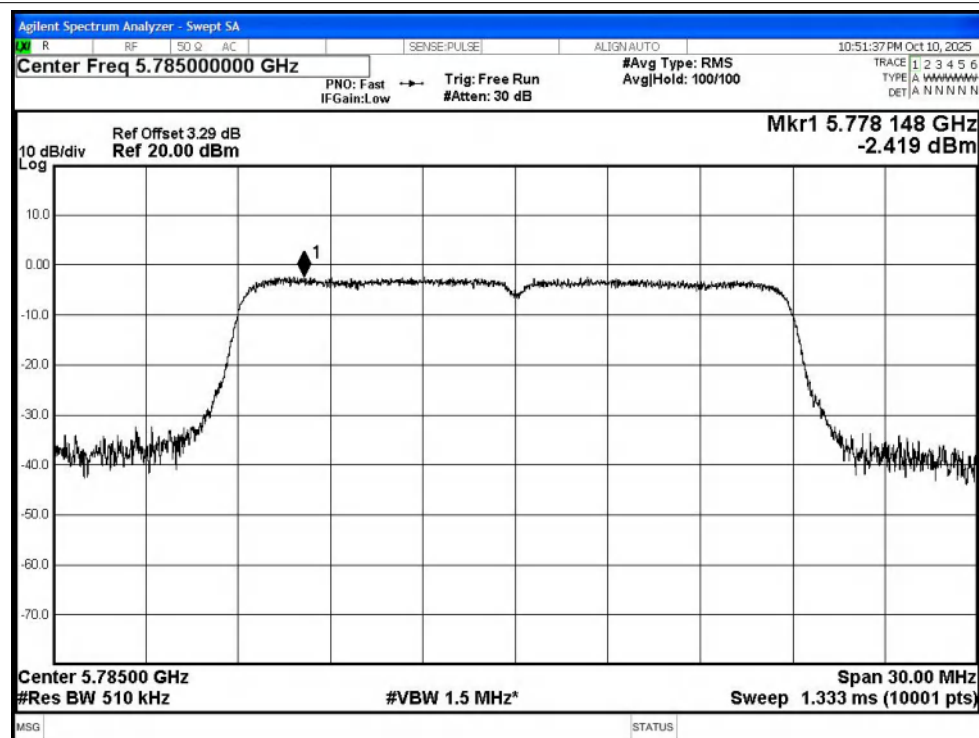
PSD NVNT a 5825MHz Ant0



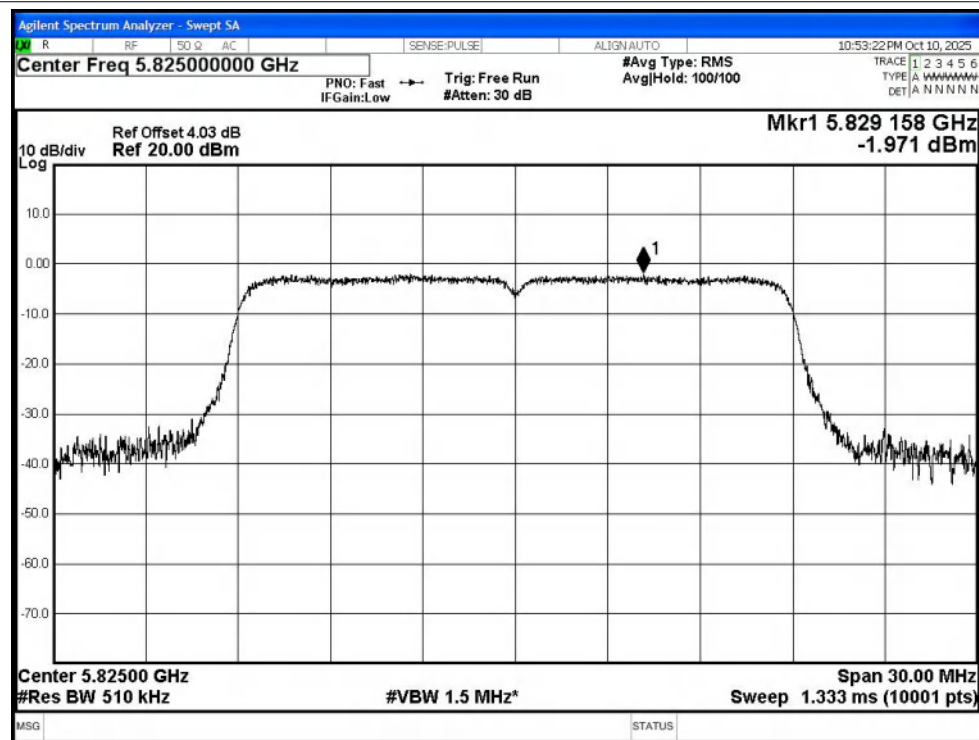
PSD NVNT n20 5745MHz Ant0



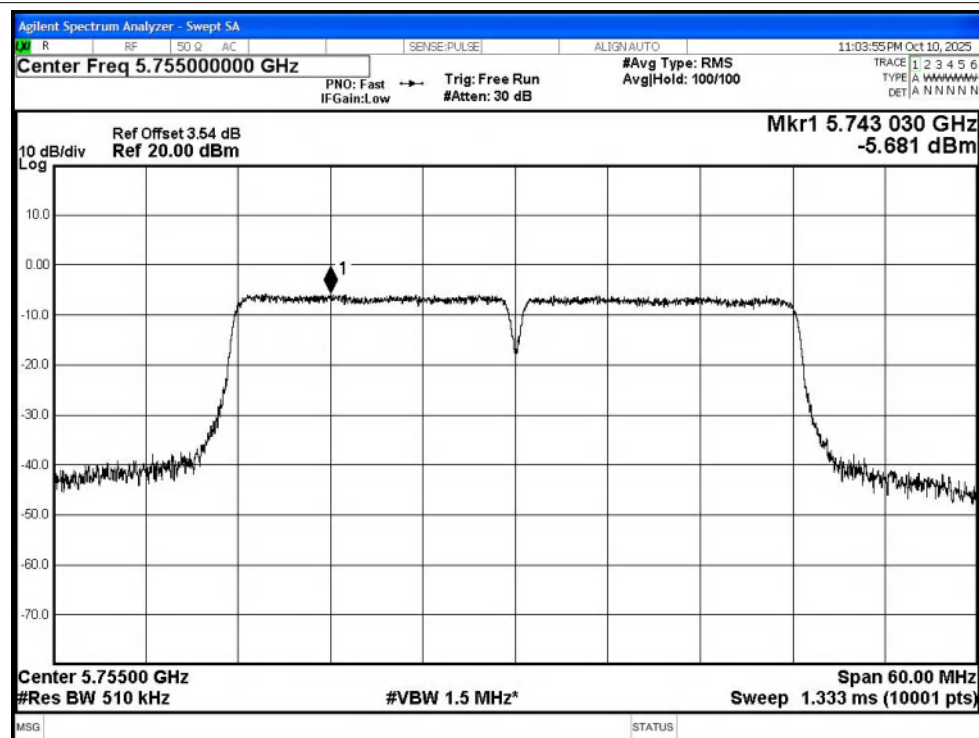
PSD NVNT n20 5785MHz Ant0



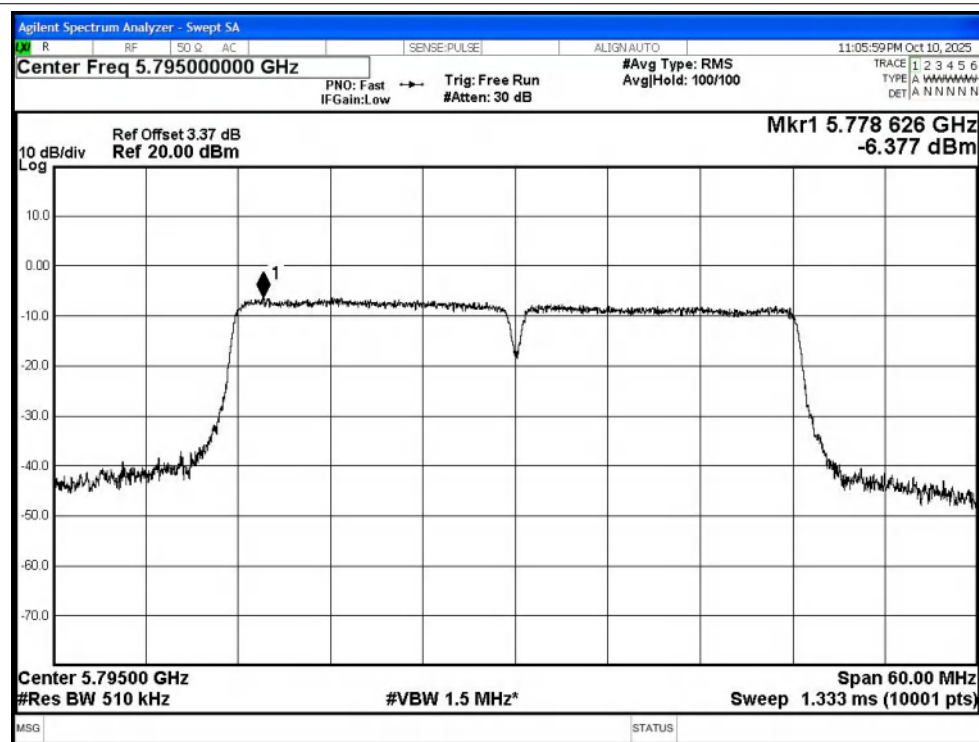
PSD NVNT n20 5825MHz Ant0



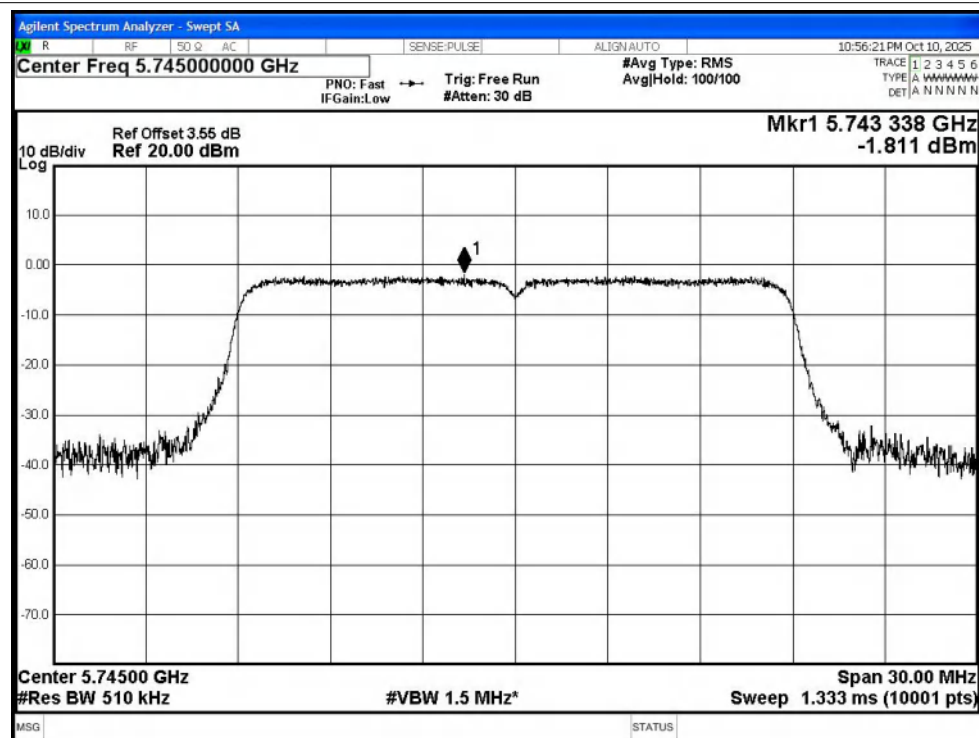
PSD NVNT n40 5755MHz Ant0



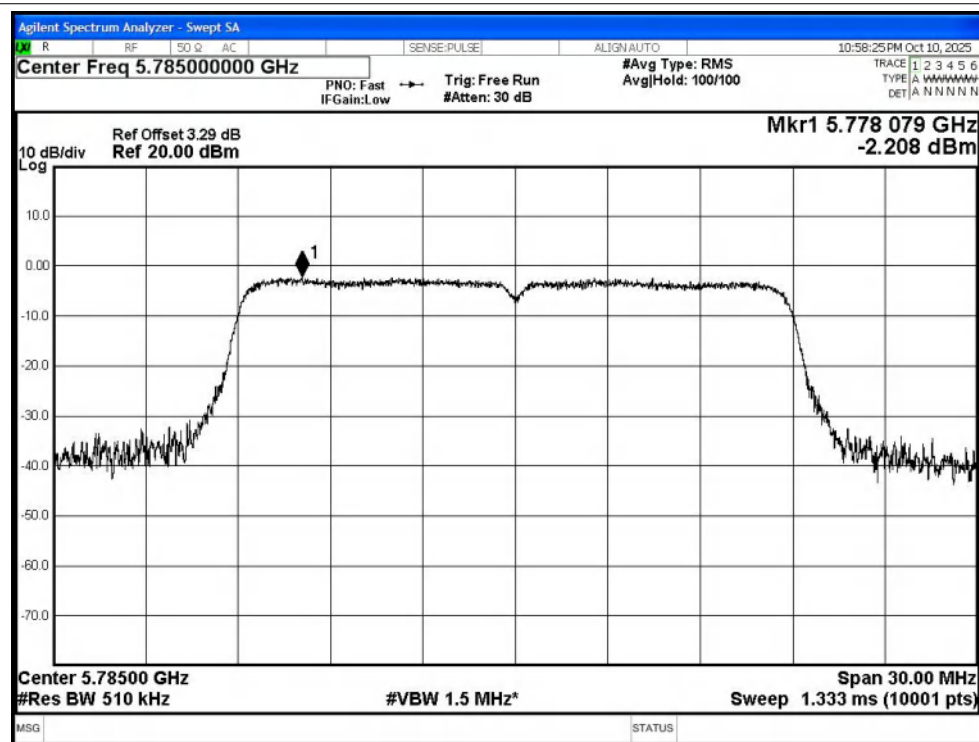
PSD NVNT n40 5795MHz Ant0



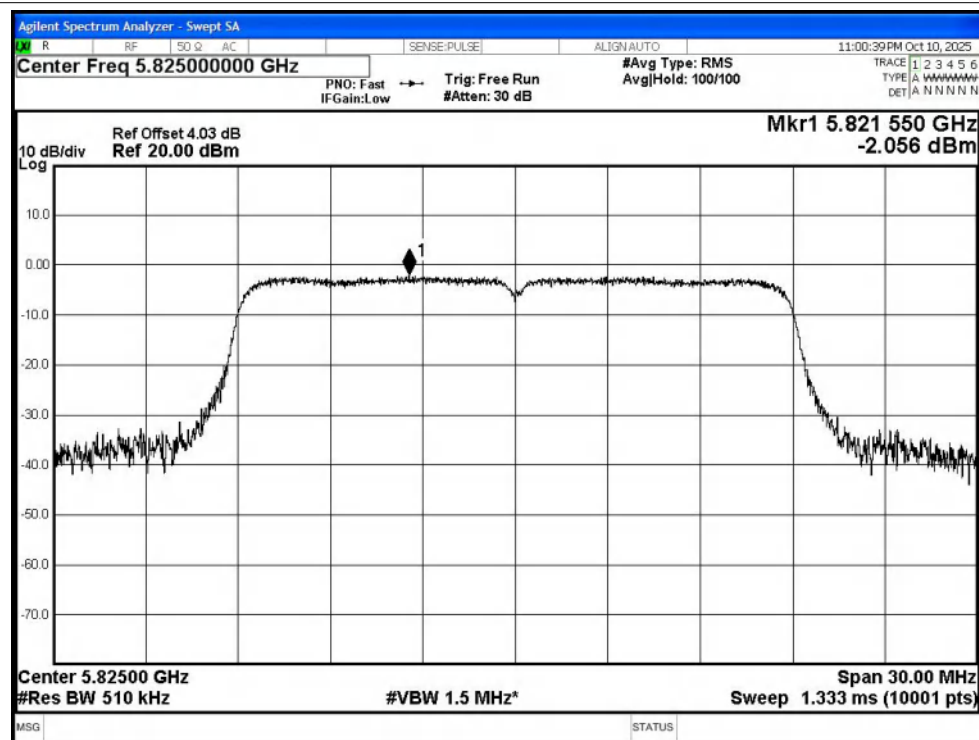
PSD NVNT ac20 5745MHz Ant0



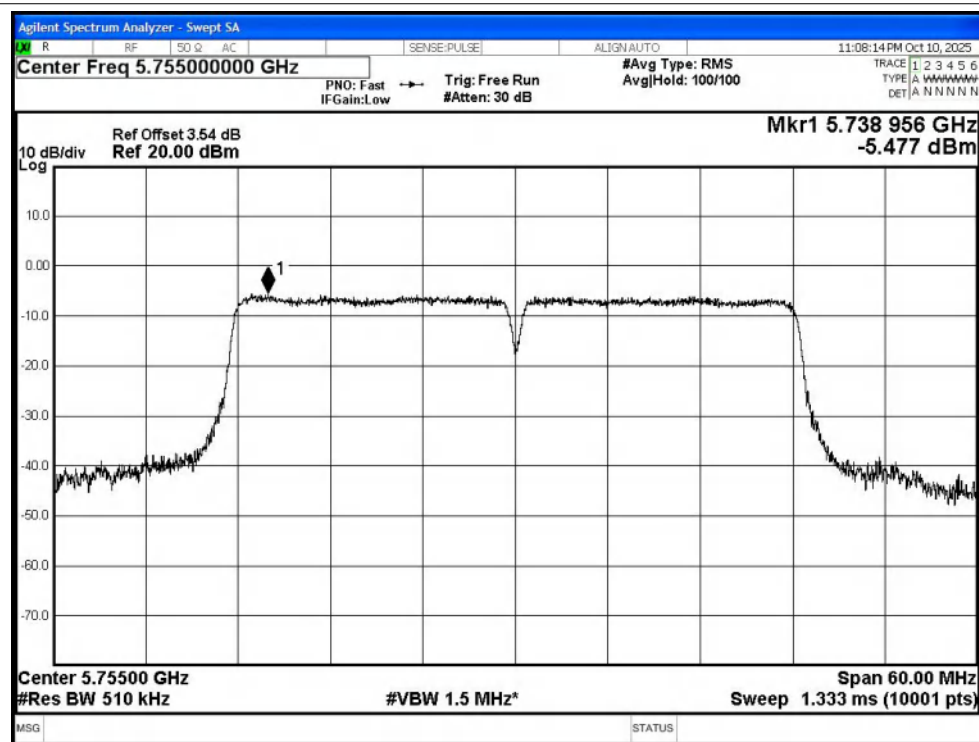
PSD NVNT ac20 5785MHz Ant0



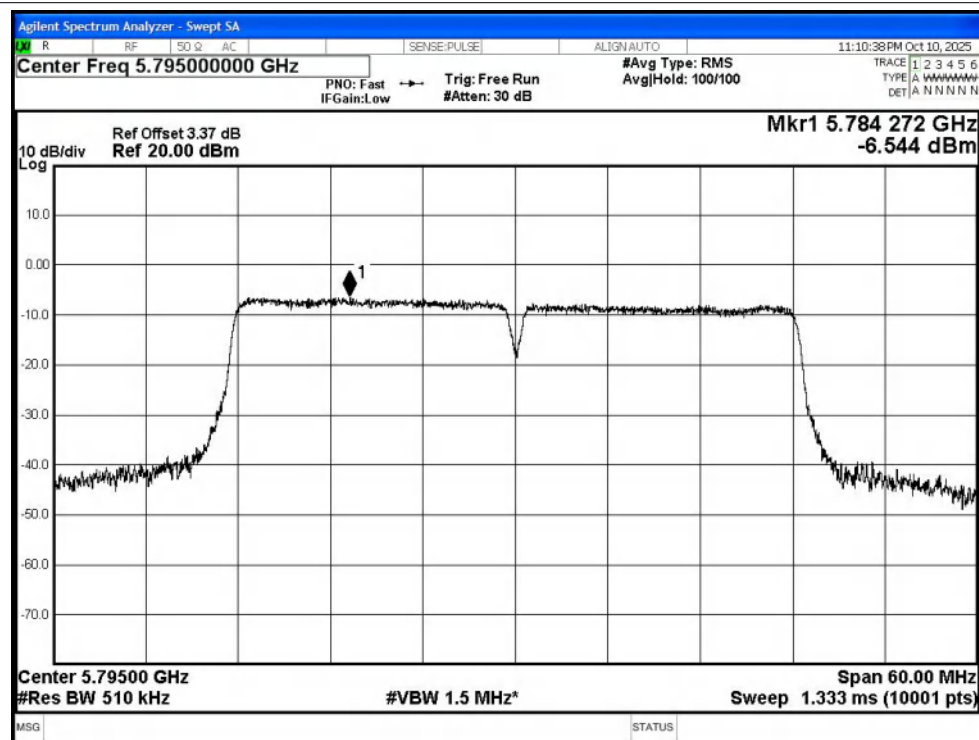
PSD NVNT ac20 5825MHz Ant0



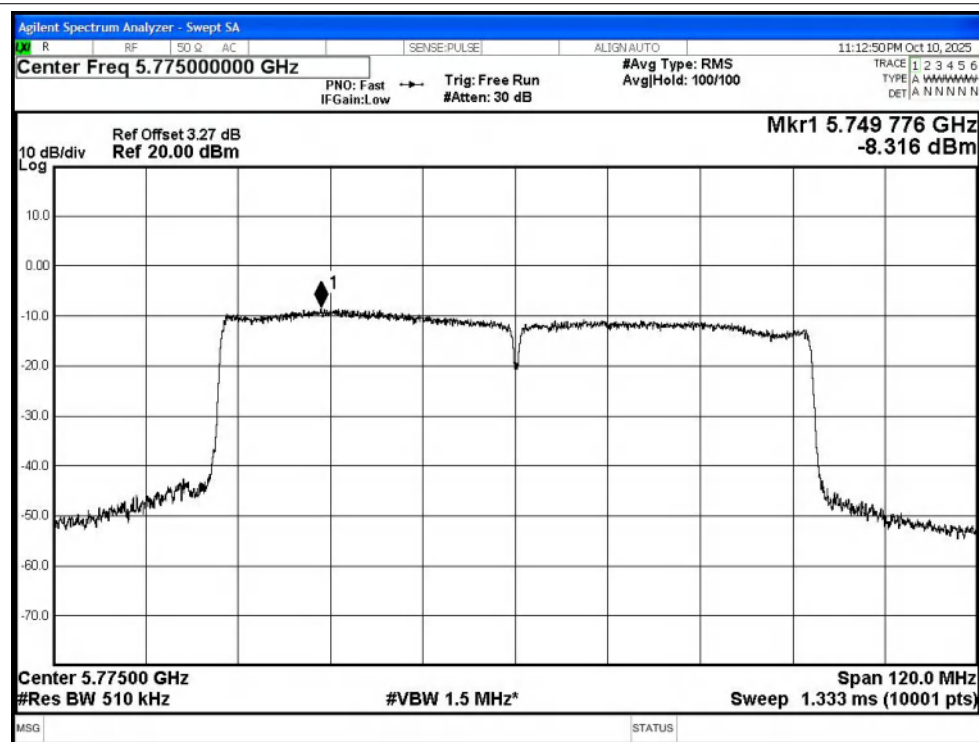
PSD NVNT ac40 5755MHz Ant0



PSD NVNT ac40 5795MHz Ant0



PSD NVNT ac80 5775MHz Ant0



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	Ant0	5650	-49.84	2	-	-47.84	Peak	-27	Pass
NVNT	a	5745	Ant0	5650	-57.03	2	0.24	-54.79	Average	-27	Pass
NVNT	a	5745	Ant0	5700	-44.05	2	-	-42.05	Peak	10	Pass
NVNT	a	5745	Ant0	5700	-54.25	2	0.24	-52.01	Average	10	Pass
NVNT	a	5745	Ant0	5720	-30.27	2	-	-28.27	Peak	15.6	Pass
NVNT	a	5745	Ant0	5720	-45.1	2	0.24	-42.86	Average	15.6	Pass
NVNT	a	5745	Ant0	5725	-24.43	2	-	-22.43	Peak	27	Pass
NVNT	a	5745	Ant0	5725	-41.47	2	0.24	-39.23	Average	27	Pass
NVNT	a	5825	Ant0	5850	-36.59	2	-	-34.59	Peak	27	Pass
NVNT	a	5825	Ant0	5850	-52.47	2	0.24	-50.23	Average	27	Pass
NVNT	a	5825	Ant0	5855	-43.3	2	-	-41.3	Peak	15.6	Pass
NVNT	a	5825	Ant0	5855	-53.49	2	0.24	-51.25	Average	15.6	Pass
NVNT	a	5825	Ant0	5875	-47.57	2	-	-45.57	Peak	10	Pass
NVNT	a	5825	Ant0	5875	-54.46	2	0.24	-52.22	Average	10	Pass
NVNT	a	5825	Ant0	5925	-47.88	2	-	-45.88	Peak	-27	Pass
NVNT	a	5825	Ant0	5925	-55.58	2	0.24	-53.34	Average	-27	Pass
NVNT	n20	5745	Ant0	5650	-49.88	2	-	-47.88	Peak	-27	Pass
NVNT	n20	5745	Ant0	5650	-56.67	2	0.12	-54.55	Average	-27	Pass
NVNT	n20	5745	Ant0	5700	-44.73	2	-	-42.73	Peak	10	Pass
NVNT	n20	5745	Ant0	5700	-54.68	2	0.12	-52.56	Average	10	Pass
NVNT	n20	5745	Ant0	5720	-31.32	2	-	-29.32	Peak	15.6	Pass
NVNT	n20	5745	Ant0	5720	-45.72	2	0.12	-43.6	Average	15.6	Pass
NVNT	n20	5745	Ant0	5725	-25.54	2	-	-23.54	Peak	27	Pass
NVNT	n20	5745	Ant0	5725	-40.86	2	0.12	-38.74	Average	27	Pass
NVNT	n20	5825	Ant0	5850	-30.68	2	-	-28.68	Peak	27	Pass
NVNT	n20	5825	Ant0	5850	-44.87	2	0.12	-42.75	Average	27	Pass
NVNT	n20	5825	Ant0	5855	-31.29	2	-	-29.29	Peak	15.6	Pass
NVNT	n20	5825	Ant0	5855	-50.04	2	0.12	-47.92	Average	15.6	Pass
NVNT	n20	5825	Ant0	5875	-47.06	2	-	-45.06	Peak	10	Pass
NVNT	n20	5825	Ant0	5875	-55.1	2	0.12	-52.98	Average	10	Pass
NVNT	n20	5825	Ant0	5925	-47.89	2	-	-45.89	Peak	-27	Pass
NVNT	n20	5825	Ant0	5925	-55.34	2	0.12	-53.22	Average	-27	Pass
NVNT	n40	5755	Ant0	5650	-49.35	2	-	-47.35	Peak	-27	Pass
NVNT	n40	5755	Ant0	5650	-56.81	2	0.24	-54.57	Average	-27	Pass
NVNT	n40	5755	Ant0	5700	-43.55	2	-	-41.55	Peak	10	Pass
NVNT	n40	5755	Ant0	5700	-53.55	2	0.24	-51.31	Average	10	Pass
NVNT	n40	5755	Ant0	5720	-32.02	2	-	-30.02	Peak	15.6	Pass
NVNT	n40	5755	Ant0	5720	-44.96	2	0.24	-42.72	Average	15.6	Pass
NVNT	n40	5755	Ant0	5725	-27.8	2	-	-25.8	Peak	27	Pass

NVNT	n40	5755	Ant0	5725	-40.58	2	0.24	-38.34	Average	27	Pass
NVNT	n40	5795	Ant0	5850	-48.83	2	-	-46.83	Peak	27	Pass
NVNT	n40	5795	Ant0	5850	-56.19	2	0.24	-53.95	Average	27	Pass
NVNT	n40	5795	Ant0	5855	-48.56	2	-	-46.56	Peak	15.6	Pass
NVNT	n40	5795	Ant0	5855	-56.2	2	0.24	-53.96	Average	15.6	Pass
NVNT	n40	5795	Ant0	5875	-49.15	2	-	-47.15	Peak	10	Pass
NVNT	n40	5795	Ant0	5875	-57.25	2	0.24	-55.01	Average	10	Pass
NVNT	n40	5795	Ant0	5925	-48.6	2	-	-46.6	Peak	-27	Pass
NVNT	n40	5795	Ant0	5925	-57.41	2	0.24	-55.17	Average	-27	Pass
NVNT	ac20	5745	Ant0	5650	-49.4	2	-	-47.4	Peak	-27	Pass
NVNT	ac20	5745	Ant0	5650	-56.65	2	0.12	-54.53	Average	-27	Pass
NVNT	ac20	5745	Ant0	5700	-46.61	2	-	-44.61	Peak	10	Pass
NVNT	ac20	5745	Ant0	5700	-54.42	2	0.12	-52.3	Average	10	Pass
NVNT	ac20	5745	Ant0	5720	-30.08	2	-	-28.08	Peak	15.6	Pass
NVNT	ac20	5745	Ant0	5720	-42.77	2	0.12	-40.65	Average	15.6	Pass
NVNT	ac20	5745	Ant0	5725	-19.74	2	-	-17.74	Peak	27	Pass
NVNT	ac20	5745	Ant0	5725	-40.4	2	0.12	-38.28	Average	27	Pass
NVNT	ac20	5825	Ant0	5850	-31.5	2	-	-29.5	Peak	27	Pass
NVNT	ac20	5825	Ant0	5850	-46.12	2	0.12	-44	Average	27	Pass
NVNT	ac20	5825	Ant0	5855	-37.54	2	-	-35.54	Peak	15.6	Pass
NVNT	ac20	5825	Ant0	5855	-50.66	2	0.12	-48.54	Average	15.6	Pass
NVNT	ac20	5825	Ant0	5875	-47.72	2	-	-45.72	Peak	10	Pass
NVNT	ac20	5825	Ant0	5875	-55.37	2	0.12	-53.25	Average	10	Pass
NVNT	ac20	5825	Ant0	5925	-47.26	2	-	-45.26	Peak	-27	Pass
NVNT	ac20	5825	Ant0	5925	-56.02	2	0.12	-53.9	Average	-27	Pass
NVNT	ac40	5755	Ant0	5650	-49.96	2	-	-47.96	Peak	-27	Pass
NVNT	ac40	5755	Ant0	5650	-57.05	2	0.24	-54.81	Average	-27	Pass
NVNT	ac40	5755	Ant0	5700	-45.41	2	-	-43.41	Peak	10	Pass
NVNT	ac40	5755	Ant0	5700	-53.23	2	0.24	-50.99	Average	10	Pass
NVNT	ac40	5755	Ant0	5720	-31.48	2	-	-29.48	Peak	15.6	Pass
NVNT	ac40	5755	Ant0	5720	-44.6	2	0.24	-42.36	Average	15.6	Pass
NVNT	ac40	5755	Ant0	5725	-23.68	2	-	-21.68	Peak	27	Pass
NVNT	ac40	5755	Ant0	5725	-42.04	2	0.24	-39.8	Average	27	Pass
NVNT	ac40	5795	Ant0	5850	-47.87	2	-	-45.87	Peak	27	Pass
NVNT	ac40	5795	Ant0	5850	-55.6	2	0.24	-53.36	Average	27	Pass
NVNT	ac40	5795	Ant0	5855	-47.78	2	-	-45.78	Peak	15.6	Pass
NVNT	ac40	5795	Ant0	5855	-56.54	2	0.24	-54.3	Average	15.6	Pass
NVNT	ac40	5795	Ant0	5875	-49.9	2	-	-47.9	Peak	10	Pass
NVNT	ac40	5795	Ant0	5875	-57.7	2	0.24	-55.46	Average	10	Pass
NVNT	ac40	5795	Ant0	5925	-49.32	2	-	-47.32	Peak	-27	Pass
NVNT	ac40	5795	Ant0	5925	-57.84	2	0.24	-55.6	Average	-27	Pass
NVNT	ac80	5775	Ant0	5850	-39.13	2	-	-37.13	Peak	27	Pass
NVNT	ac80	5775	Ant0	5850	-49.78	2	0.47	-47.31	Average	27	Pass
NVNT	ac80	5775	Ant0	5855	-42.32	2	-	-40.32	Peak	15.6	Pass

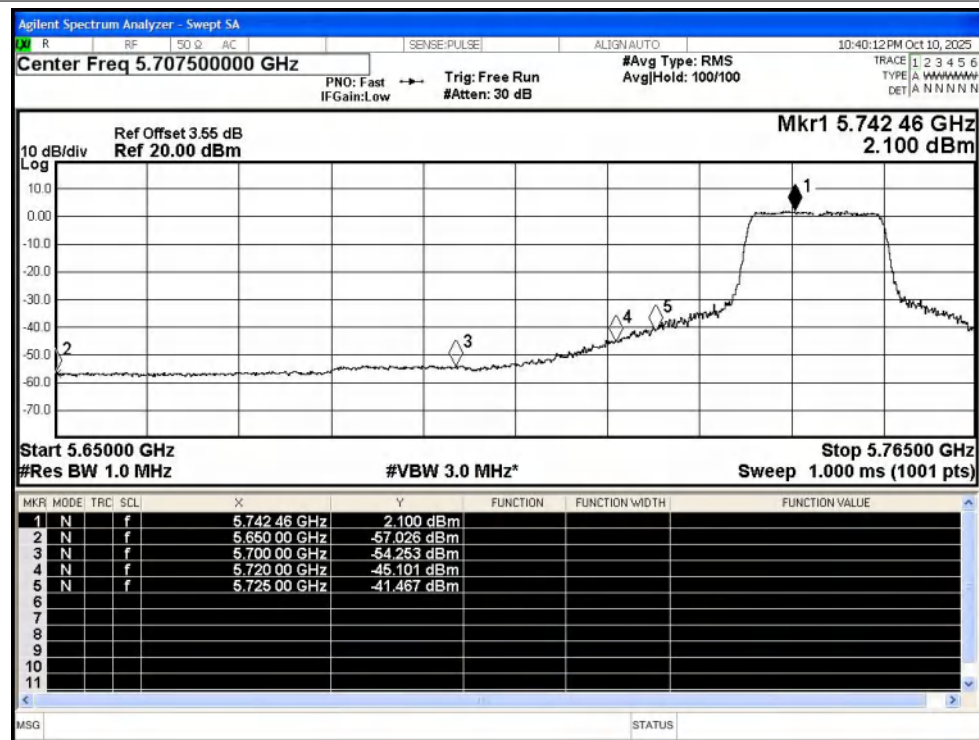
NVNT	ac80	5775	Ant0	5855	-50.2	2	0.47	-47.73	Average	15.6	Pass
NVNT	ac80	5775	Ant0	5875	-45.1	2	-	-43.1	Peak	10	Pass
NVNT	ac80	5775	Ant0	5875	-54.97	2	0.47	-52.5	Average	10	Pass
NVNT	ac80	5775	Ant0	5925	-48.42	2	-	-46.42	Peak	-27	Pass
NVNT	ac80	5775	Ant0	5925	-56.71	2	0.47	-54.24	Average	-27	Pass
NVNT	ac80	5775	Ant0	5650	-48.42	2	-	-46.42	Peak	-27	Pass
NVNT	ac80	5775	Ant0	5650	-56.06	2	0.47	-53.59	Average	-27	Pass
NVNT	ac80	5775	Ant0	5700	-40.66	2	-	-38.66	Peak	10	Pass
NVNT	ac80	5775	Ant0	5700	-50.53	2	0.47	-48.06	Average	10	Pass
NVNT	ac80	5775	Ant0	5720	-34.37	2	-	-32.37	Peak	15.6	Pass
NVNT	ac80	5775	Ant0	5720	-46.82	2	0.47	-44.35	Average	15.6	Pass
NVNT	ac80	5775	Ant0	5725	-34.31	2	-	-32.31	Peak	27	Pass
NVNT	ac80	5775	Ant0	5725	-45.78	2	0.47	-43.31	Average	27	Pass

Test Graphs

Restrict Band NVNT a 5745MHz Ant0 Peak



Restrict Band NVNT a 5745MHz Ant0 Average



Agilent Spectrum Analyzer - Swept SA

Center Freq 5.865000000 GHz

Ref Offset 4.03 dB
Ref 20.00 dBm

Mkr1 5.822 76 GHz
8.583 dBm

Start 5.80500 GHz
#Res BW 1.0 MHz

Stop 5.92500 GHz
Sweep 1.000 ms (1001 pts)

#VBW 3.0 MHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.822 76 GHz	8.583 dBm			
2	N		f	5.850 00 GHz	-36.586 dBm			
3	N		f	5.855 00 GHz	-43.297 dBm			
4	N		f	5.875 00 GHz	-47.573 dBm			
5	N		f	5.925 00 GHz	-47.883 dBm			

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN AUTO 10:44:36 PM Oct 10, 2025

Center Freq 5.865000000 GHz #Avg Type: RMS
PNO: Fast IF Gain: Low Trig: Free Run Avg Hold: 100/100
TYPE A N N N N N N
DET A N N N N N N

Ref Offset 4.03 dB Mkr1 5.827 56 GHz
Ref 20.00 dBm 0.681 dBm

10 dB/div Log

Start 5.80500 GHz Stop 5.92500 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.827 56 GHz	0.681 dBm			
2	N	f	5.850 00 GHz	-52.469 dBm			
3	N	f	5.855 00 GHz	-53.490 dBm			
4	N	f	5.875 00 GHz	-54.463 dBm			
5	N	f	5.925 00 GHz	-55.581 dBm			
6							
7							
8							
9							
10							
11							

[illegible][illegible]

Restrict Band NVNT n20 5825MHz Ant0 Peak

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.865000000 GHz

Ref Offset 4.03 dB
Ref 20.00 dBm

Mkr1 5.817 48 GHz
8.863 dBm

Start 5.80500 GHz
#Res BW 1.0 MHz

Stop 5.92500 GHz
Sweep 1.000 ms (1001 pts)

#VBW 3.0 MHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.817 48 GHz	8.863 dBm			
2	N		f	5.850 00 GHz	-30.676 dBm			
3	N		f	5.855 00 GHz	-31.290 dBm			
4	N		f	5.875 00 GHz	-47.057 dBm			
5	N		f	5.925 00 GHz	-47.888 dBm			

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN AUTO 10:53:42 PM Oct 10, 2025

Center Freq 5.865000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS Avg Hold: 100/100

Ref Offset 4.03 dB Ref 20.00 dBm Mkr1 5.822 04 GHz 0.195 dBm

10 dB/div Log

Start 5.80500 GHz Stop 5.92500 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.822 04 GHz	0.195 dBm			
2	N	f	5.850 00 GHz	-44.866 dBm			
3	N	f	5.855 00 GHz	-50.037 dBm			
4	N	f	5.875 00 GHz	-55.097 dBm			
5	N	f	5.925 00 GHz	-55.341 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN-AUTO 11:04:15PM Oct 10, 2025

Center Freq 5.722500000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100 TRACE 1: 2 3 4 5 6 TYPE A WWWWMM DET A NNNN N

Ref Offset 3.54 dB
Ref 20.00 dBm

Mkr1 5.739 465 GHz
-3.056 dBm

Start 5.65000 GHz Stop 5.79500 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.739 465 GHz	-3.056 dBm			
2	N	f	5.650 000 GHz	-56.810 dBm			
3	N	f	5.700 000 GHz	-53.549 dBm			
4	N	f	5.720 000 GHz	-44.964 dBm			
5	N	f	5.725 000 GHz	-40.583 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

R RF SQ Z AC SENSE-PULSE ALIGN-AUTO 11:06:19 PM Oct 10, 2005

Center Freq 5.840000000 GHz PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100

TRACE 1 2 3 4 5 6 TYPE A W W W W W W W W DET A N N N N N N

Ref Offset 3.37 dB
Ref 20.00 dBm

Mkr1 5.778 80 GHz
-3.911 dBm

Start 5.75500 GHz Stop 5.92500 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.778 80 GHz	-3.911 dBm			
2	N	f	5.850 00 GHz	-56.186 dBm			
3	N	f	5.855 00 GHz	-56.203 dBm			
4	N	f	5.875 00 GHz	-57.254 dBm			
5	N	f	5.925 00 GHz	-57.408 dBm			
6							
7							
8							
9							
10							
11							

[illegible]

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN-AUTO 11:10:58 PM Oct 10, 2005

Center Freq 5.84000000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100

TRACE 1 2 3 4 5
TYPE A WWWWWW
DET A NNNN N

Ref Offset 3.37 dB Ref 20.00 dBm Mkr1 5.778 63 GHz -3.908 dBm

MKR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.778 63 GHz	-3.908 dBm			
2	N	f	5.850 00 GHz	-56.603 dBm			
3	N	f	5.855 00 GHz	-56.538 dBm			
4	N	f	5.875 00 GHz	-57.702 dBm			
5	N	f	5.925 00 GHz	-57.842 dBm			

Start 5.75500 GHz Stop 5.92500 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)

[illegible]

Agilent Spectrum Analyzer - Swept SA

11:13:10PM Oct 10, 2025

Center Freq 5.752500000 GHz

PNO: Fast IF Gain: Low

Trig: Free Run #Atten: 30 dB

#Avg Type: RMS AvgHold: 100/100

Ref Offset 3.27 dB Ref 20.00 dBm

Mkr1 5.748 40 GHz -5.844 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.748 40 GHz	-5.844 dBm			
2	N	f		5.650 00 GHz	-56.061 dBm			
3	N	f		5.700 00 GHz	-50.525 dBm			
4	N	f		5.720 00 GHz	-46.820 dBm			
5	N	f		5.725 00 GHz	-45.778 dBm			
6								
7								
8								
9								
10								
11								

Start 5.6500 GHz #Res BW 1.0 MHz

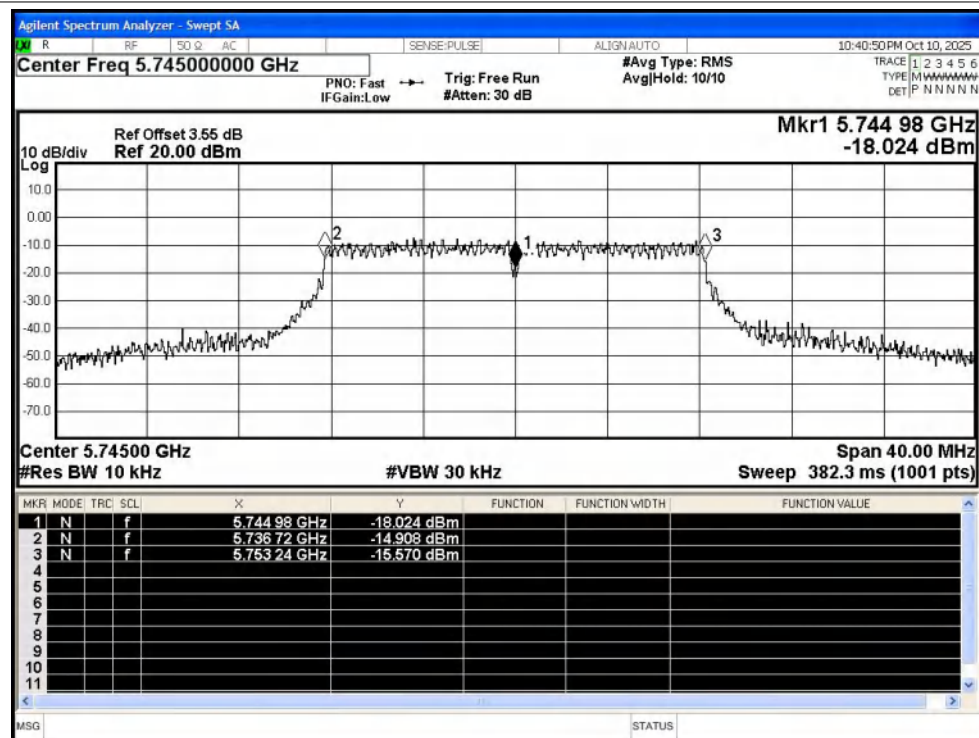
Stop 5.8550 GHz Sweep 1.000 ms (1001 pts)

#VBW 3.0 MHz*

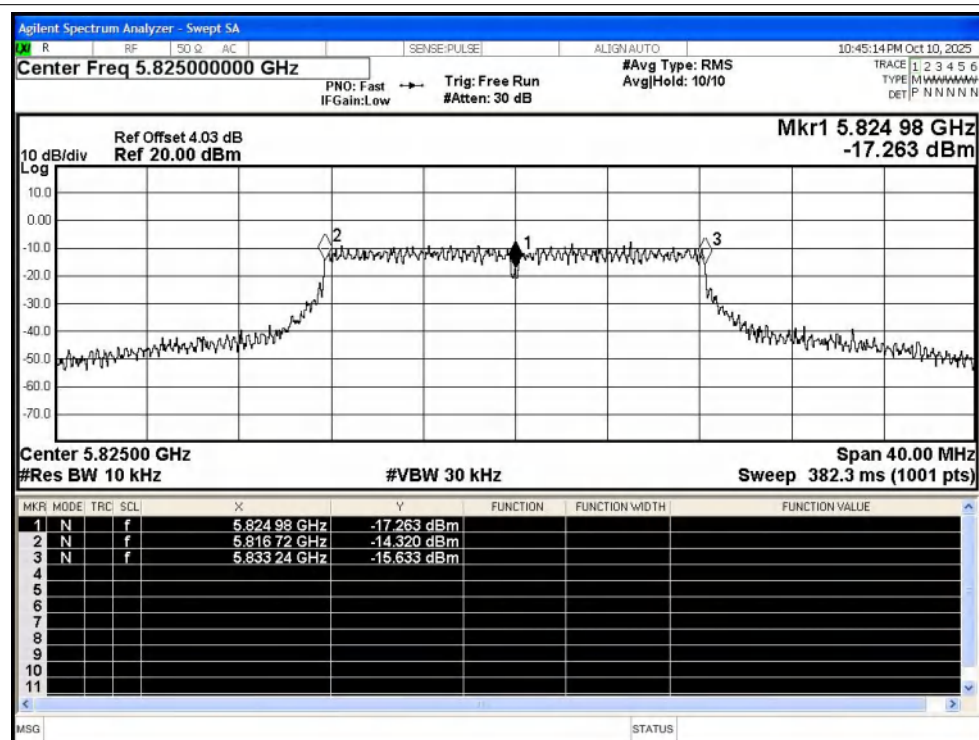
5. Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant0	5744.98	-20000	-3.48	25	Pass
NVNT	a	5785	Ant0	5784.98	-20000	-3.46	25	Pass
NVNT	a	5825	Ant0	5824.98	-20000	-3.43	25	Pass
NVNT	n20	5745	Ant0	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant0	5784.98	-20000	-3.46	25	Pass
NVNT	n20	5825	Ant0	5825	0	0	25	Pass
NVNT	n40	5755	Ant0	5754.96	-40000	-6.95	25	Pass
NVNT	n40	5795	Ant0	5794.96	-40000	-6.9	25	Pass
NVNT	ac20	5745	Ant0	5744.96	-40000	-6.96	25	Pass
NVNT	ac20	5785	Ant0	5784.98	-20000	-3.46	25	Pass
NVNT	ac20	5825	Ant0	5824.98	-20000	-3.43	25	Pass
NVNT	ac40	5755	Ant0	5755	0	0	25	Pass
NVNT	ac40	5795	Ant0	5795	0	0	25	Pass
NVNT	ac80	5775	Ant0	5774.92	-80000	-13.85	25	Pass
NVNT	ac80	5775	Ant0	5775	0	0	25	Pass

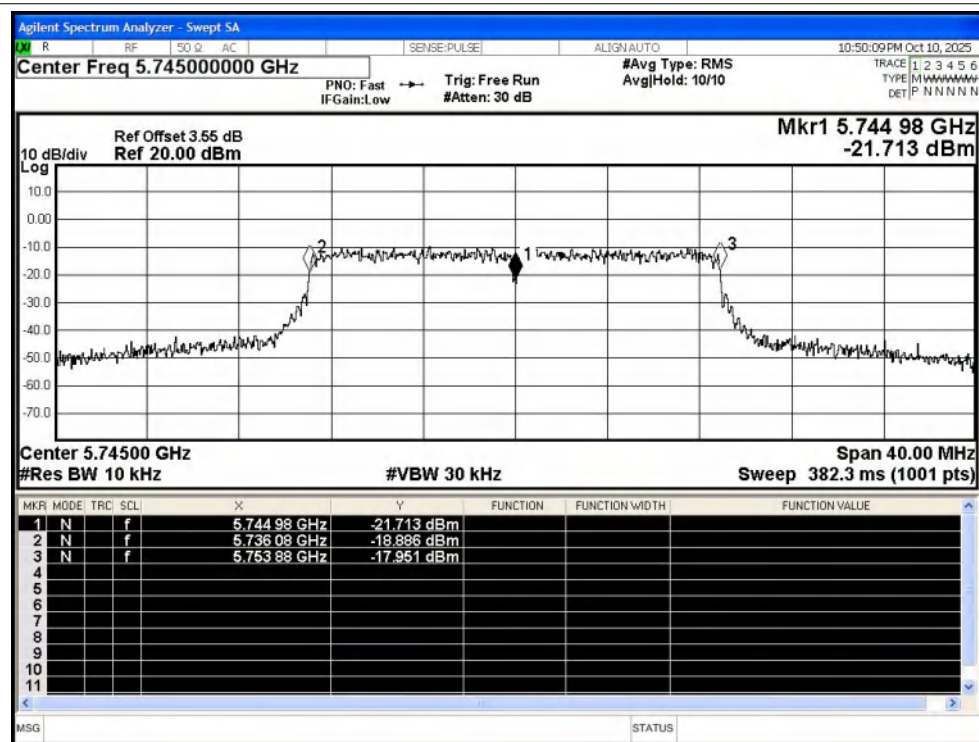
Freq. Stability NVNT a 5745MHz Ant0

[illegible]

Freq. Stability NVNT a 5825MHz Ant0



Freq. Stability NVNT n20 5745MHz Ant0



[illegible][illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.75500000 GHz

Ref Offset 3.54 dB
Ref 20.00 dBm

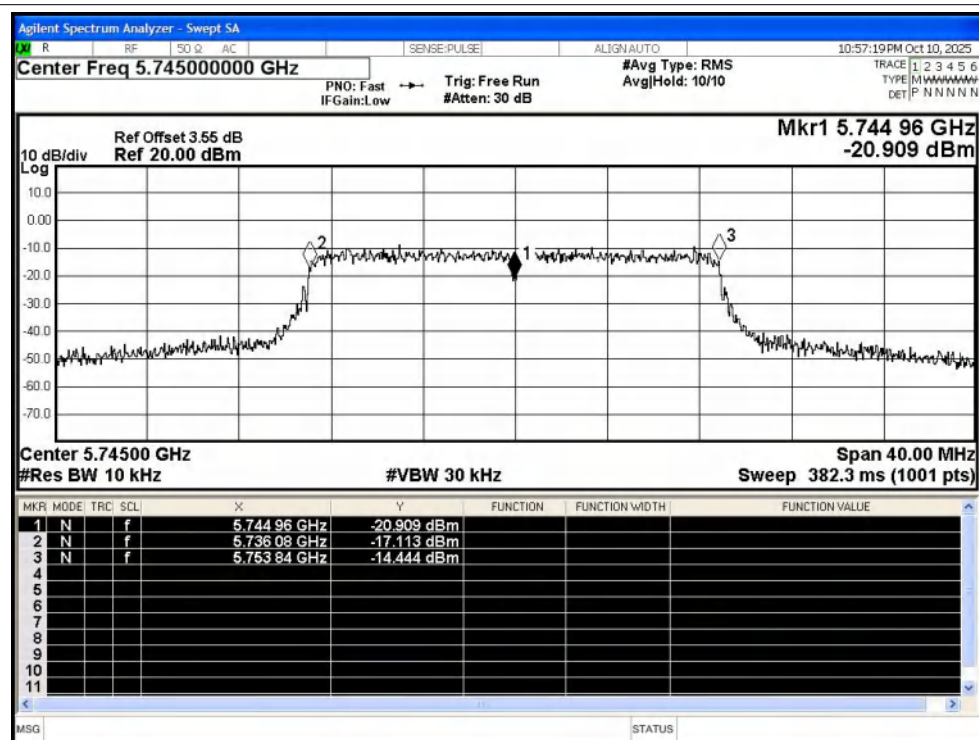
Mkr1 5.754 96 GHz
-23.997 dBm

Span 80.00 MHz
Sweep 764.6 ms (1001 pts)

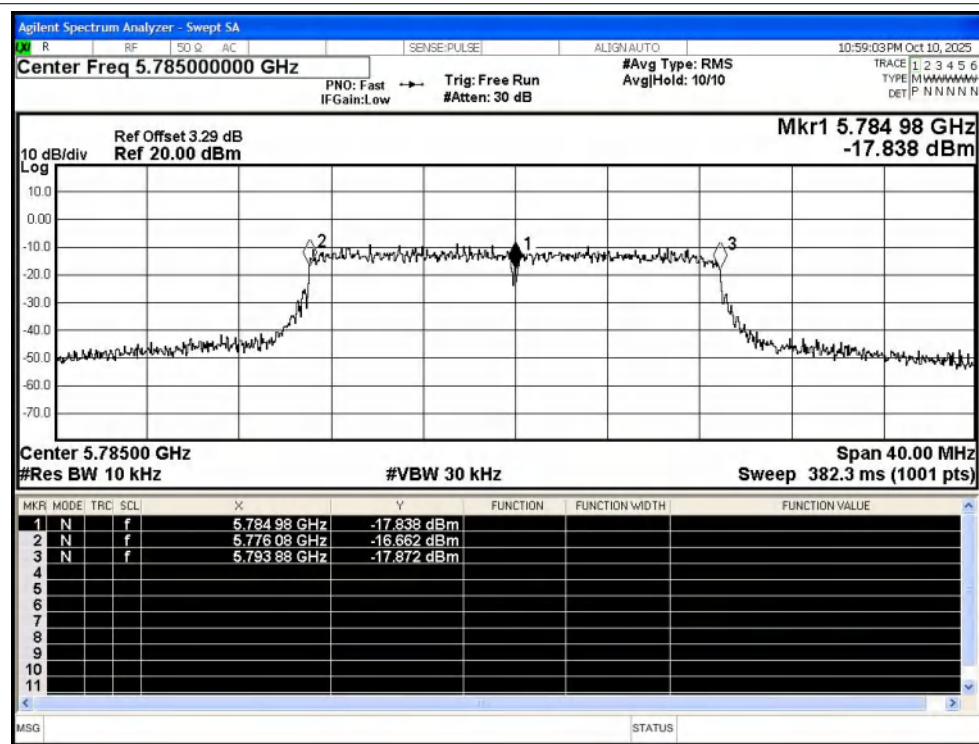
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.754 96 GHz	-23.997 dBm			
2	N	f		5.736 68 GHz	-21.309 dBm			
3	N	f		5.773 24 GHz	-20.045 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

[illegible]

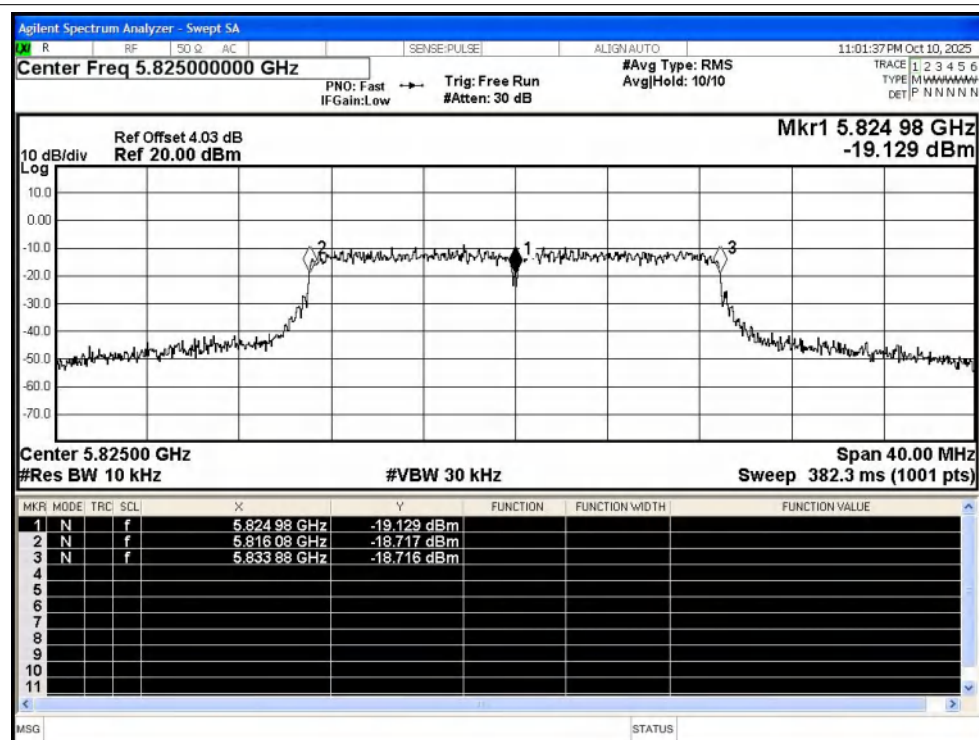
Freq. Stability NVNT ac20 5745MHz Ant0



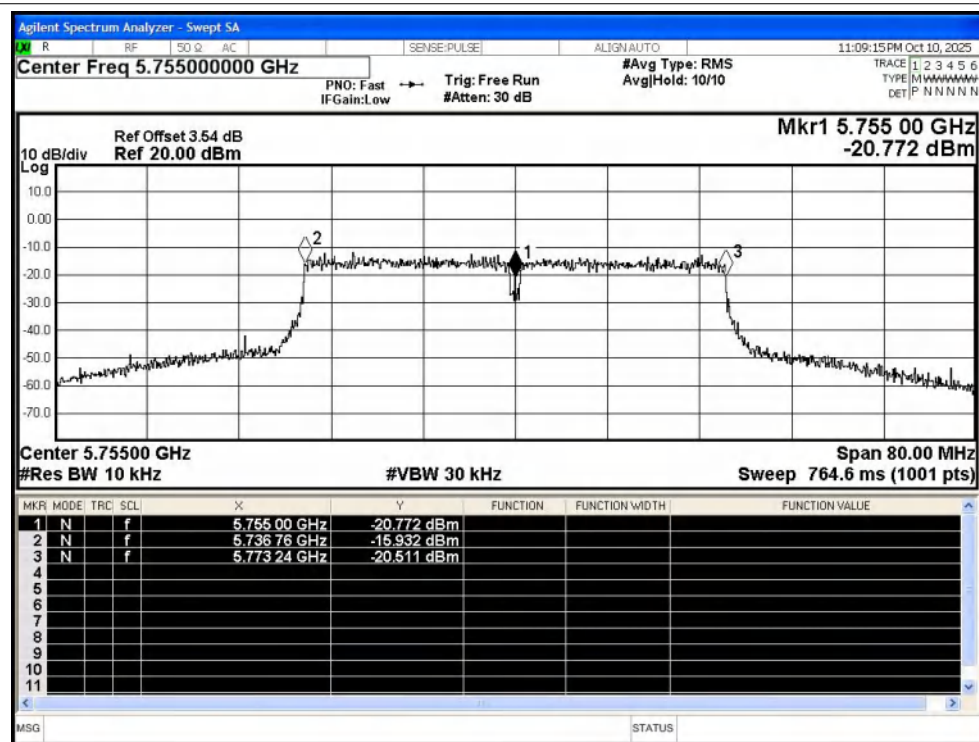
Freq. Stability NVNT ac20 5785MHz Ant0



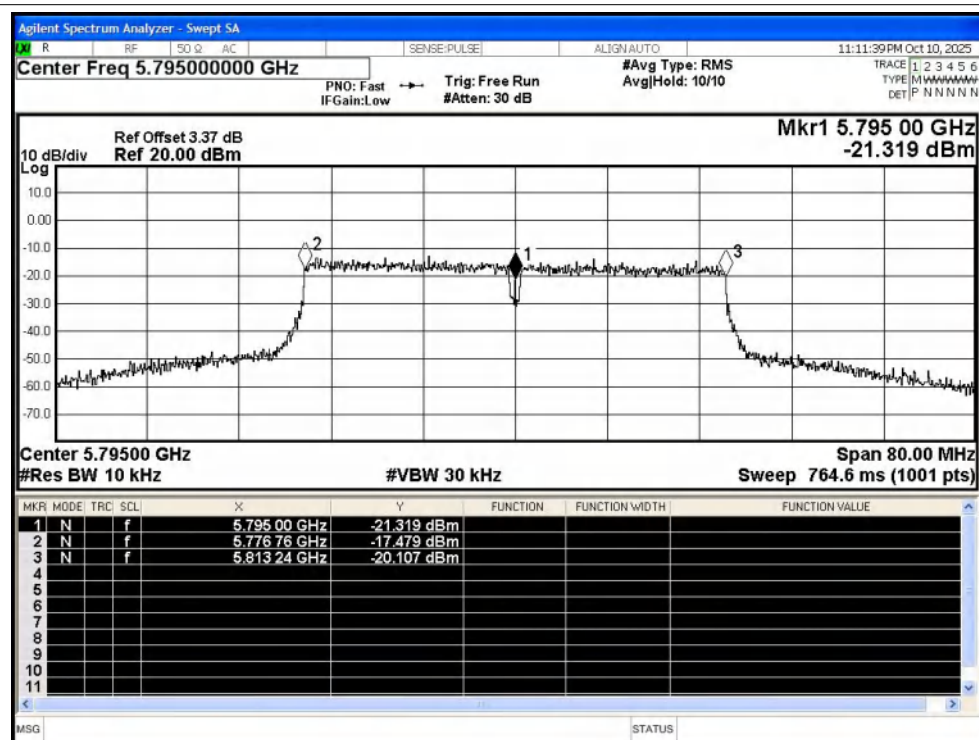
Freq. Stability NVNT ac20 5825MHz Ant0



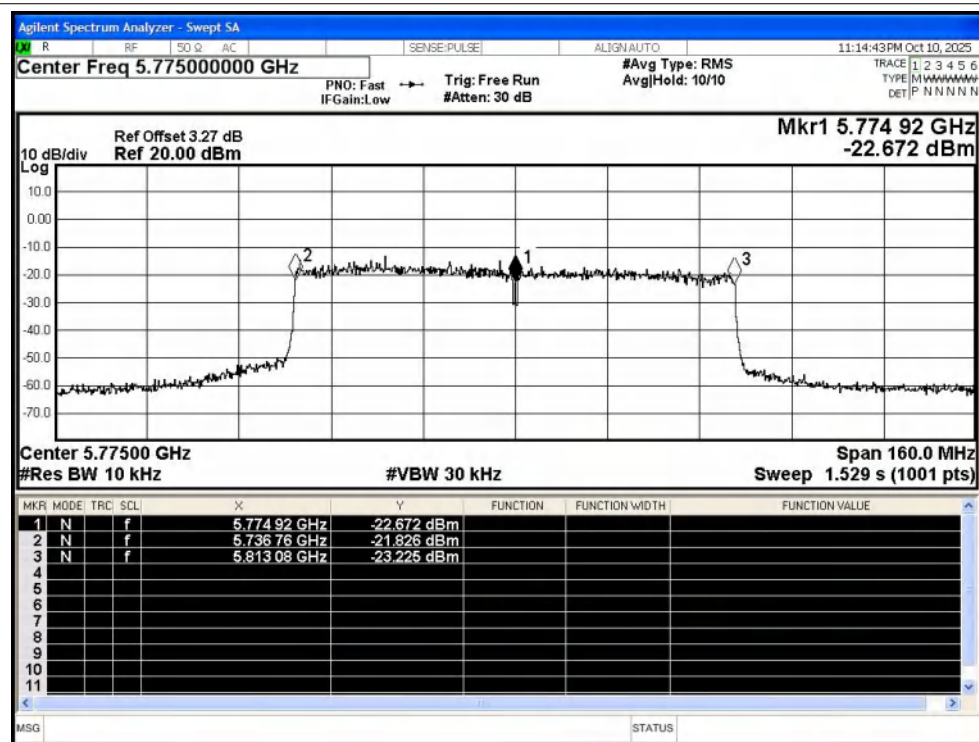
Freq. Stability NVNT ac40 5755MHz Ant0

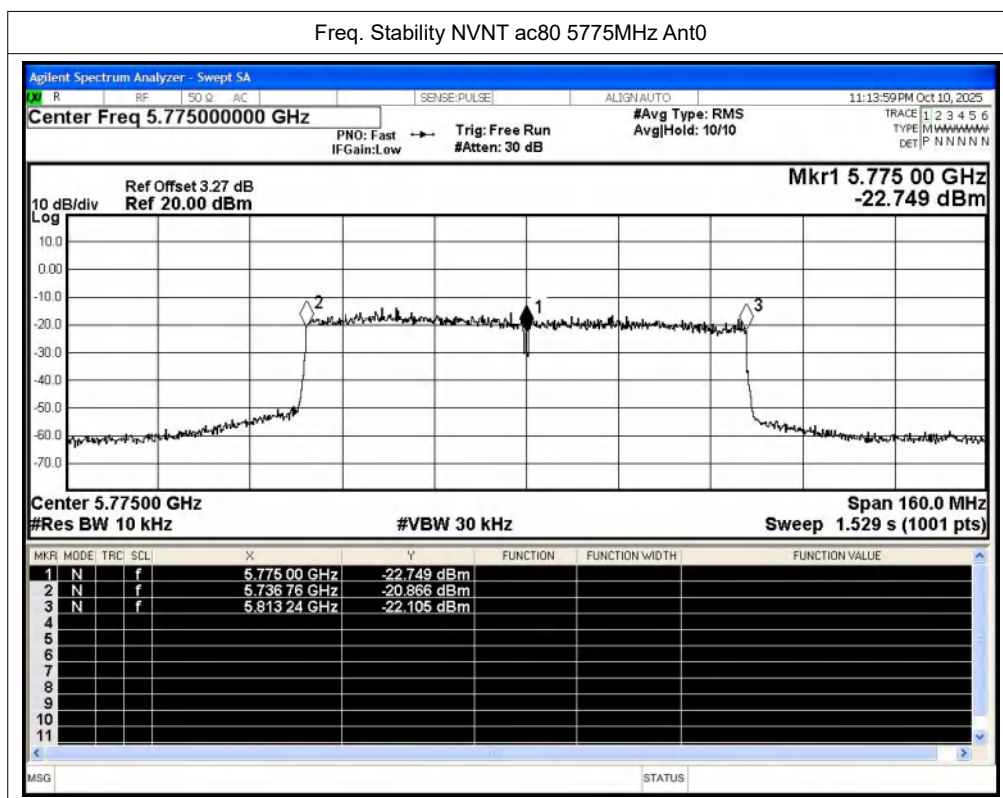


Freq. Stability NVNT ac40 5795MHz Ant0



Freq. Stability NVNT ac80 5775MHz Ant0

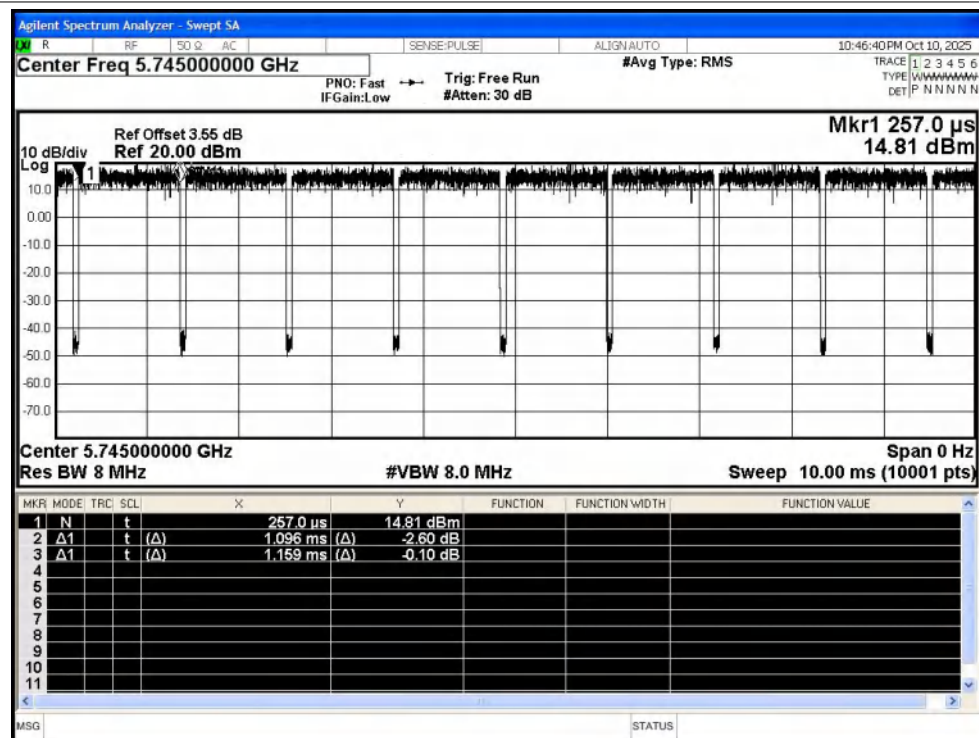




6. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant0	94.56	0.24	0.91
NVNT	a	5785	Ant0	94.56	0.24	0.91
NVNT	a	5825	Ant0	94.56	0.24	0.91
NVNT	n20	5745	Ant0	97.29	0.12	0.44
NVNT	n20	5785	Ant0	97.29	0.12	0.44
NVNT	n20	5825	Ant0	97.33	0.12	0.44
NVNT	n40	5755	Ant0	94.71	0.24	0.9
NVNT	n40	5795	Ant0	94.71	0.24	0.9
NVNT	ac20	5745	Ant0	97.34	0.12	0.44
NVNT	ac20	5785	Ant0	97.34	0.12	0.44
NVNT	ac20	5825	Ant0	97.34	0.12	0.44
NVNT	ac40	5755	Ant0	94.72	0.24	0.9
NVNT	ac40	5795	Ant0	94.72	0.24	0.9
NVNT	ac80	5775	Ant0	89.65	0.47	1.86

Duty Cycle NVNT a 5745MHz Ant0



Agilent Spectrum Analyzer - Swept SA

X R	R F	S O Q	A C		SENSE/PULSE	ALIGN/AUTO	10-47:01 PM Oct 10, 2025
-----	-----	-------	-----	--	-------------	------------	--------------------------

Center Freq 5.78500000 GHz #Avg Type: RMS
 PNO: Fast IFGain: Low → Trig: Free Run #Atten: 30 dB
 TRACE [1] 2 3 4 5 6
 TYPE W W W W W W W W
 DET P N N N N N N N

Ref Offset 3.29 dB
 Ref 20.00 dBm

Mkr1 970.0 μs
 13.82 dBm

Center 5.78500000 GHz Span 0 Hz
 Res BW 8 MHz #VBW 8.0 MHz Sweep 10.00 ms (10001 pts)

MKR MODE	TRG SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1 N	t	970.0 μs	13.82 dBm			
2 Δ1	t (Δ)	1.096 ms	-3.87 dB			
3 Δ1	t (Δ)	1.159 ms	-0.05 dB			
4						
5						
6						
7						
8						
9						
10						
11						

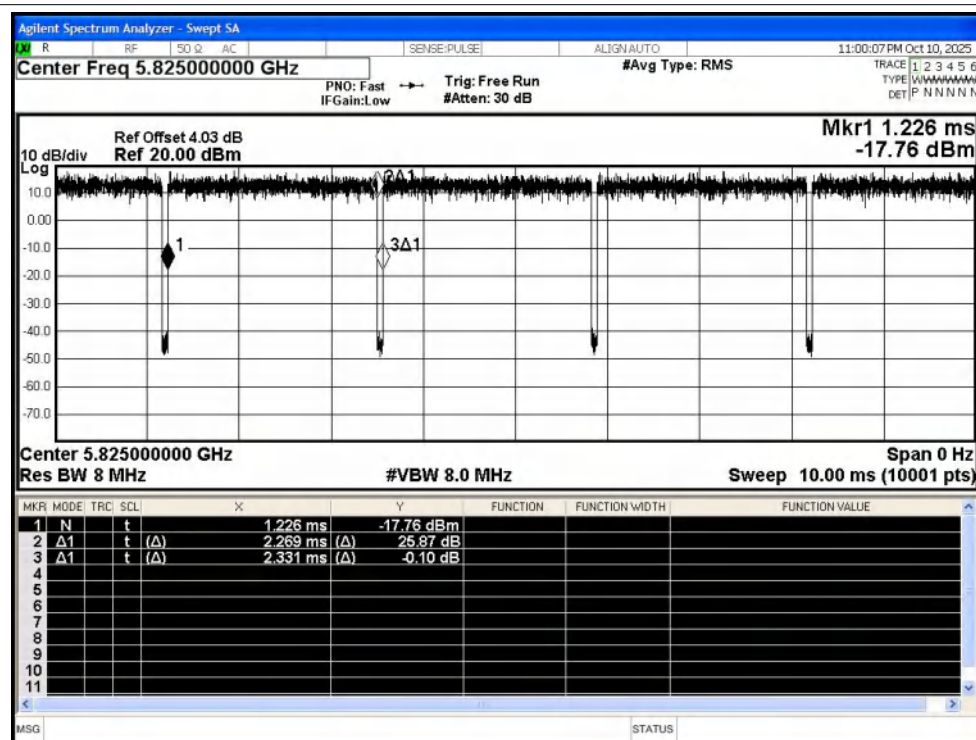
[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

Duty Cycle NVNT ac20 5825MHz Ant0



Duty Cycle NVNT ac40 5755MHz Ant0

