

FCC Appendix RF Test Data for 5.8GWIFI

Product Name: Smart Diagnostic System

Test Model: P720

Environmental Conditions

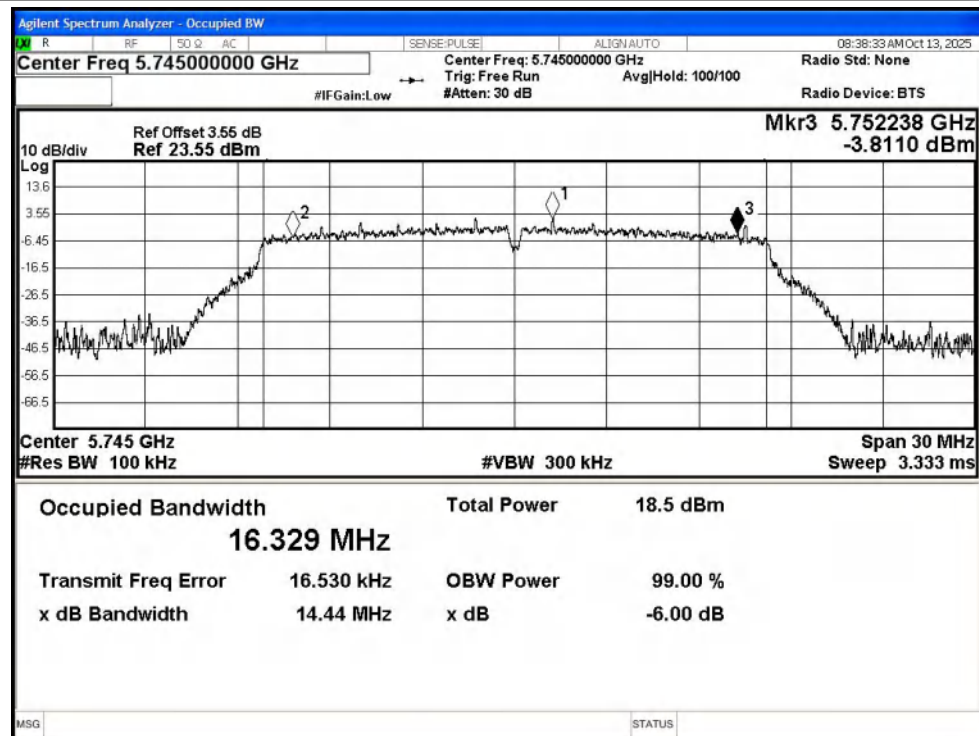
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -6dB Bandwidth

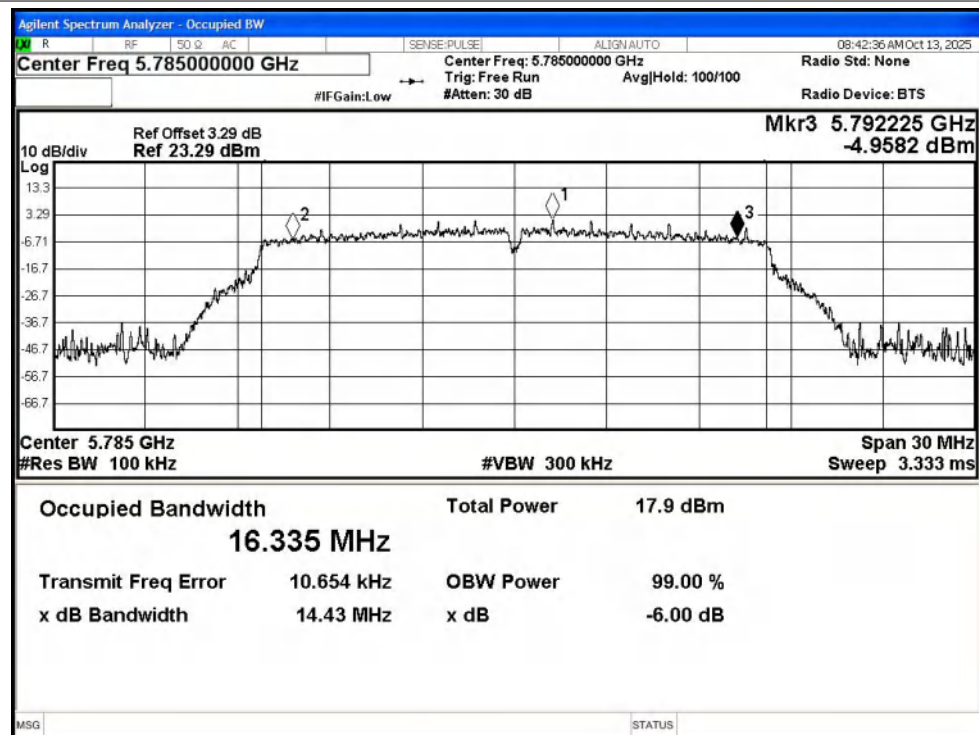
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	14.442	≥ 0.5	Pass
NVNT	a	5785	Ant1	14.43	≥ 0.5	Pass
NVNT	a	5825	Ant1	15.076	≥ 0.5	Pass
NVNT	n20	5745	Ant1	15.507	≥ 0.5	Pass
NVNT	n20	5785	Ant1	15.033	≥ 0.5	Pass
NVNT	n20	5825	Ant1	16.068	≥ 0.5	Pass
NVNT	n40	5755	Ant1	31.309	≥ 0.5	Pass
NVNT	n40	5795	Ant1	33.827	≥ 0.5	Pass
NVNT	ac20	5745	Ant1	12.655	≥ 0.5	Pass
NVNT	ac20	5785	Ant1	15.035	≥ 0.5	Pass
NVNT	ac20	5825	Ant1	13.834	≥ 0.5	Pass
NVNT	ac40	5755	Ant1	33.886	≥ 0.5	Pass
NVNT	ac40	5795	Ant1	35.087	≥ 0.5	Pass
NVNT	ac80	5775	Ant1	75.054	≥ 0.5	Pass

Test Graphs

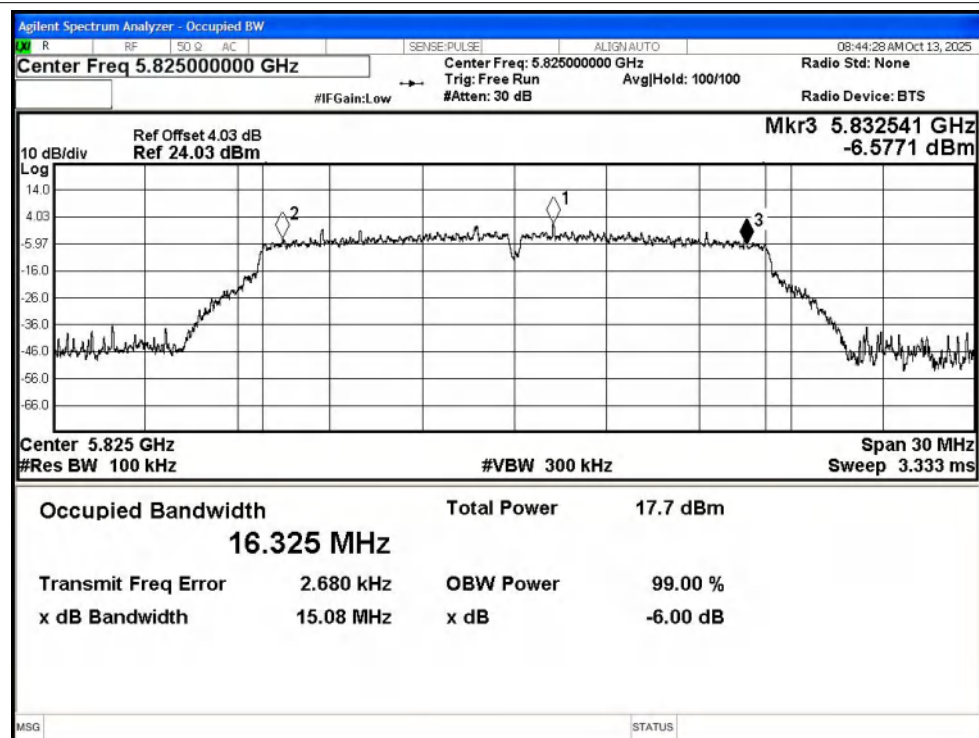
-6dB Bandwidth NVNT a 5745MHz Ant1



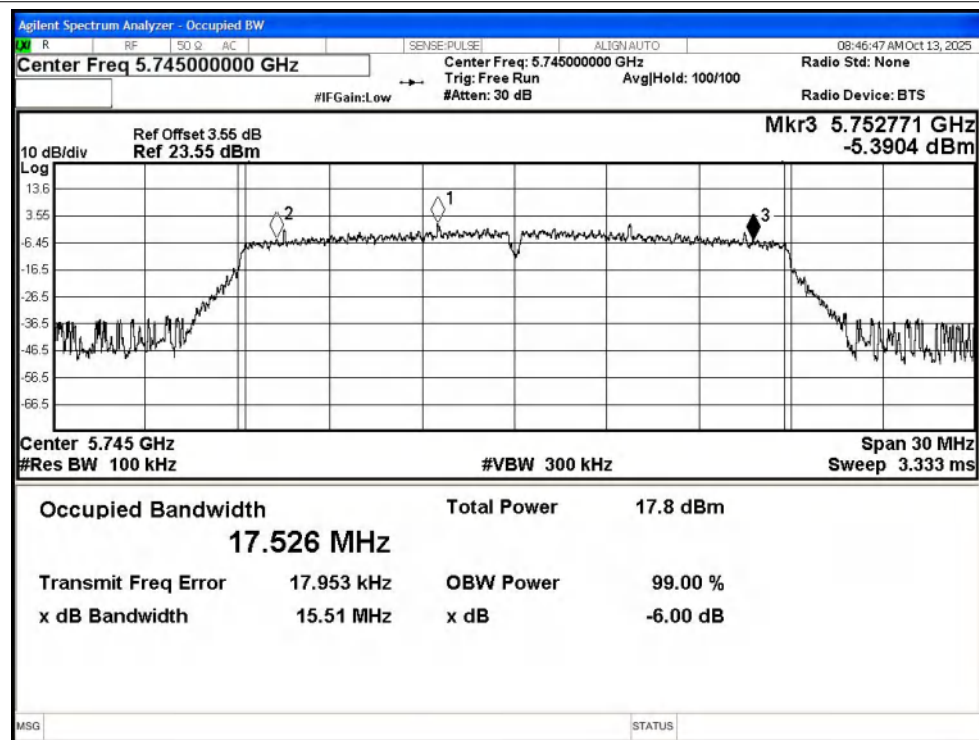
-6dB Bandwidth NVNT a 5785MHz Ant1



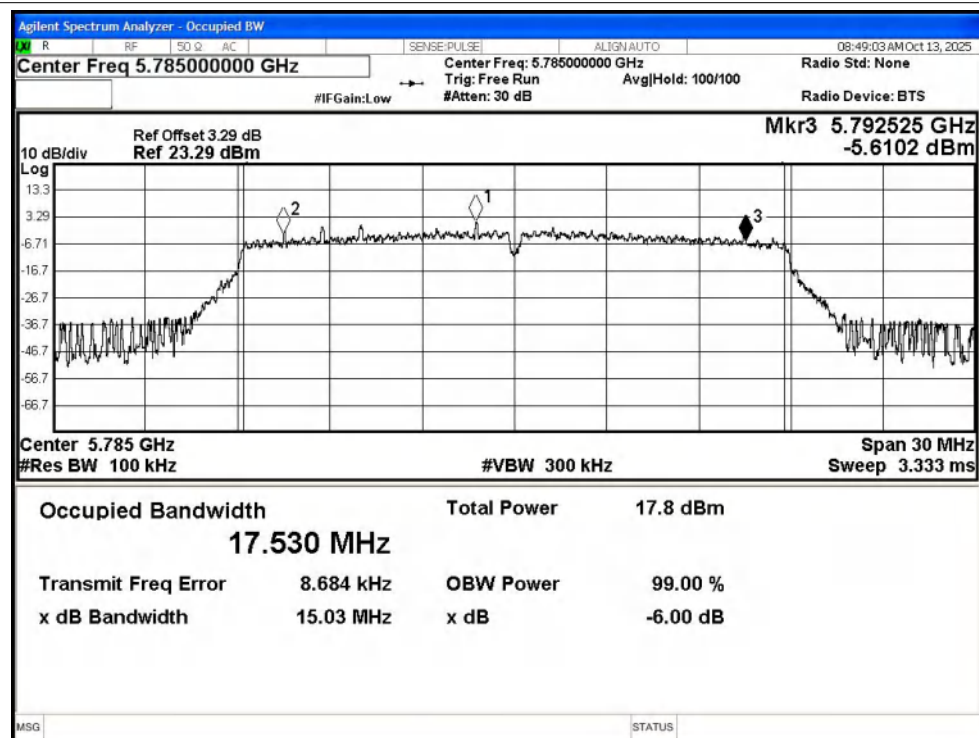
-6dB Bandwidth NVNT a 5825MHz Ant1



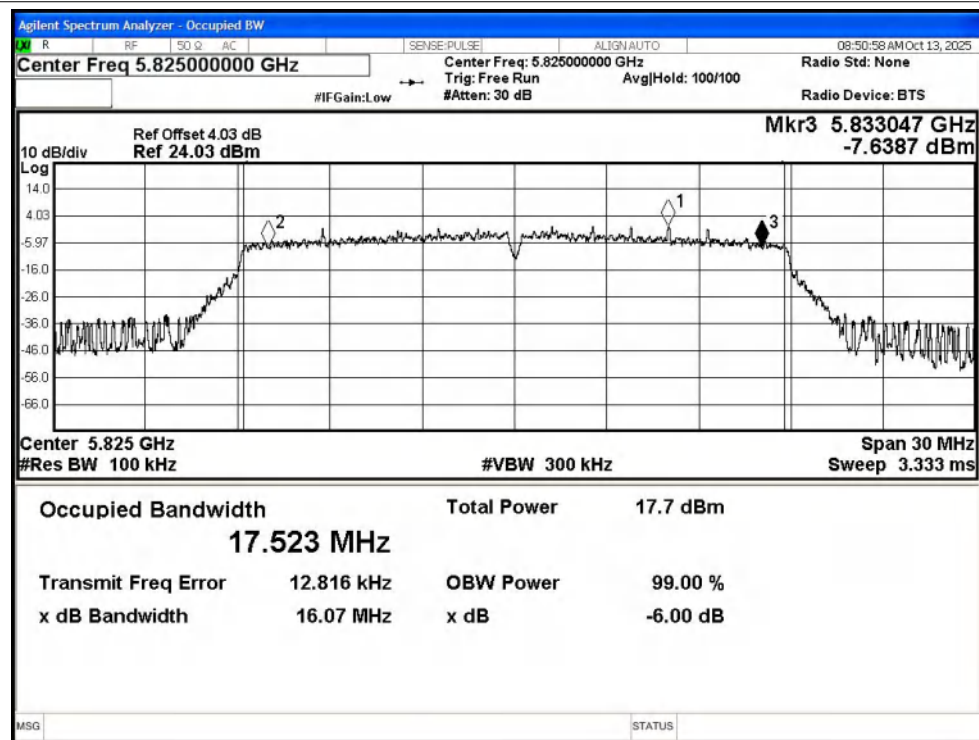
-6dB Bandwidth NVNT n20 5745MHz Ant1



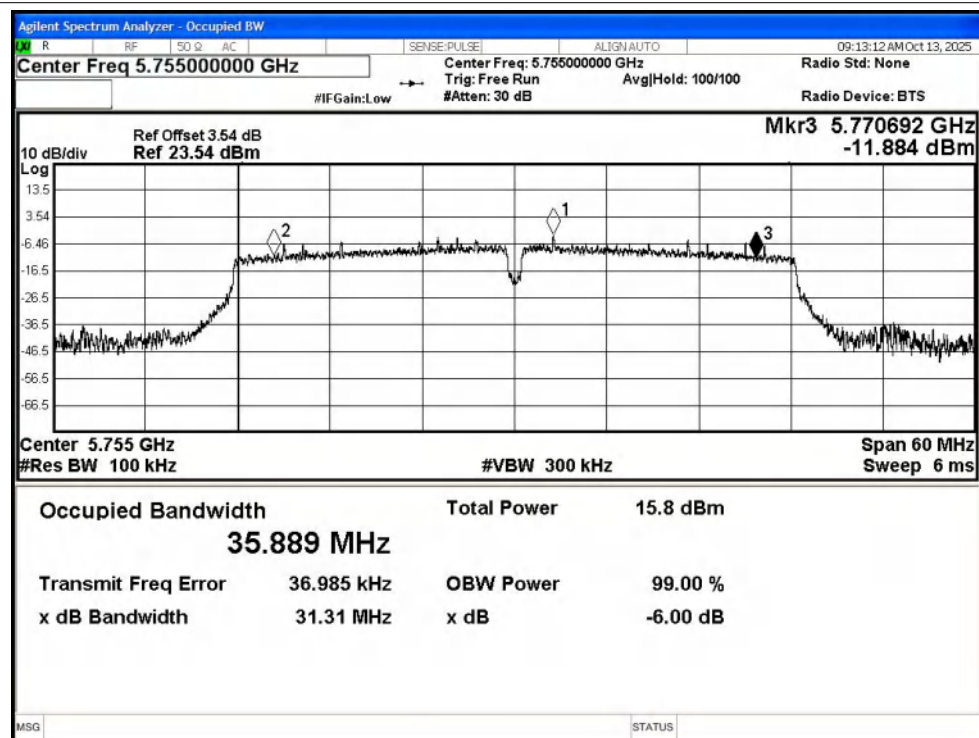
-6dB Bandwidth NVNT n20 5785MHz Ant1



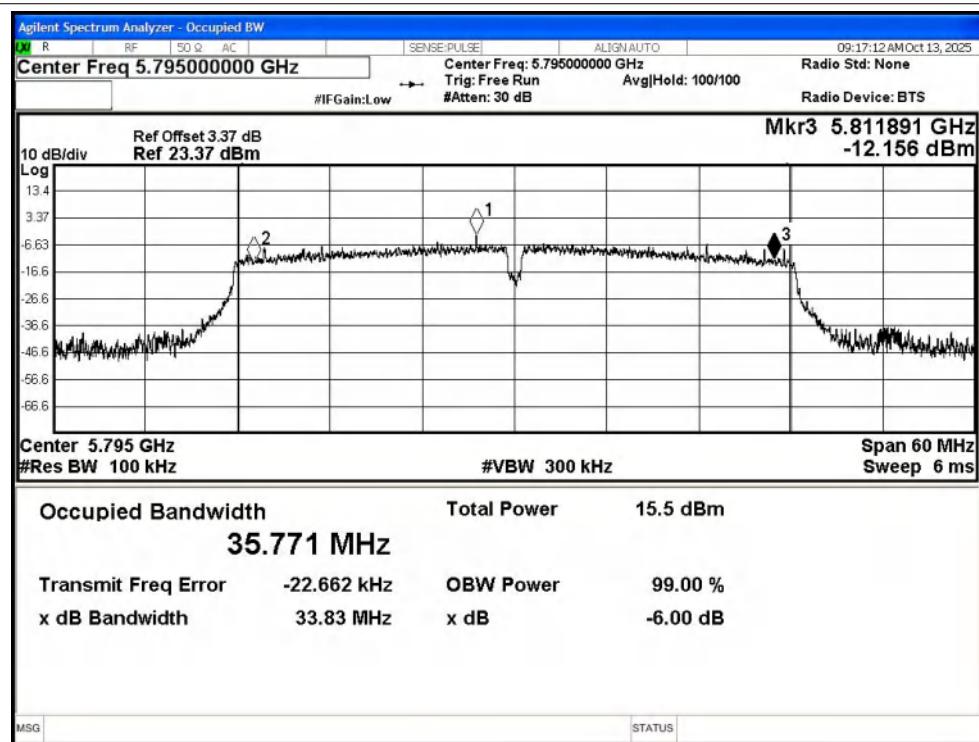
-6dB Bandwidth NVNT n20 5825MHz Ant1



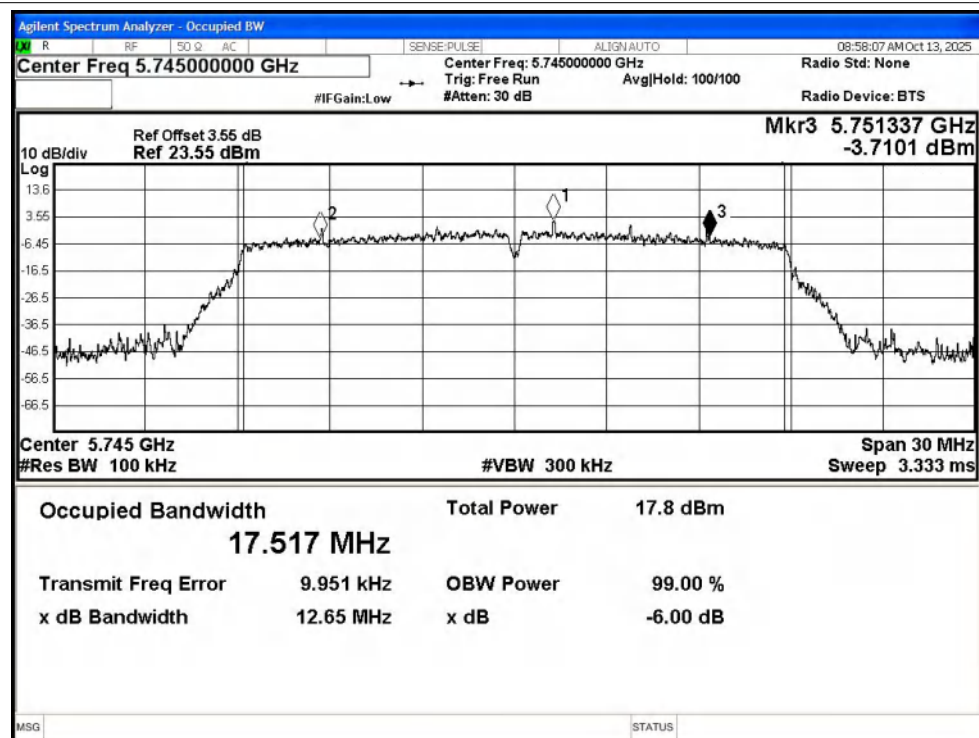
-6dB Bandwidth NVNT n40 5755MHz Ant1



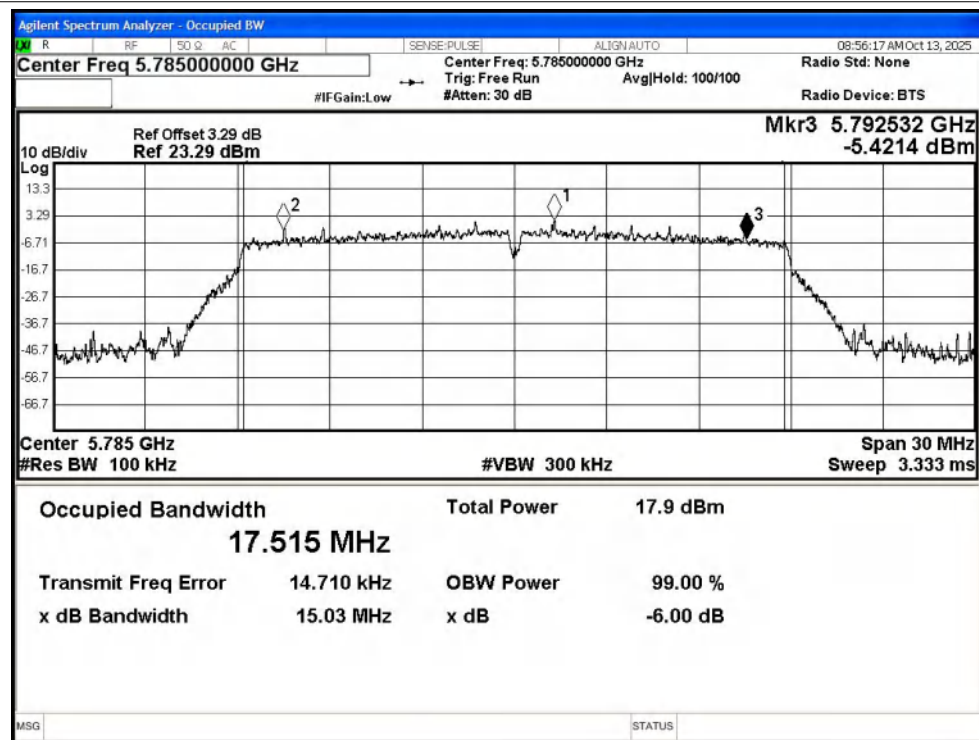
-6dB Bandwidth NVNT n40 5795MHz Ant1



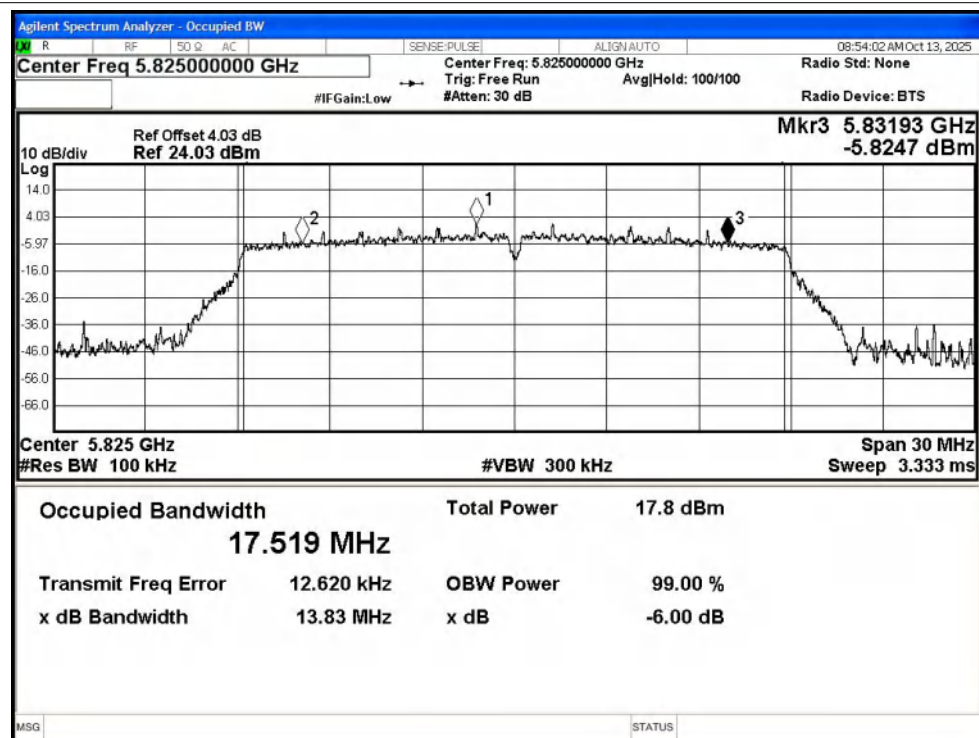
-6dB Bandwidth NVNT ac20 5745MHz Ant1



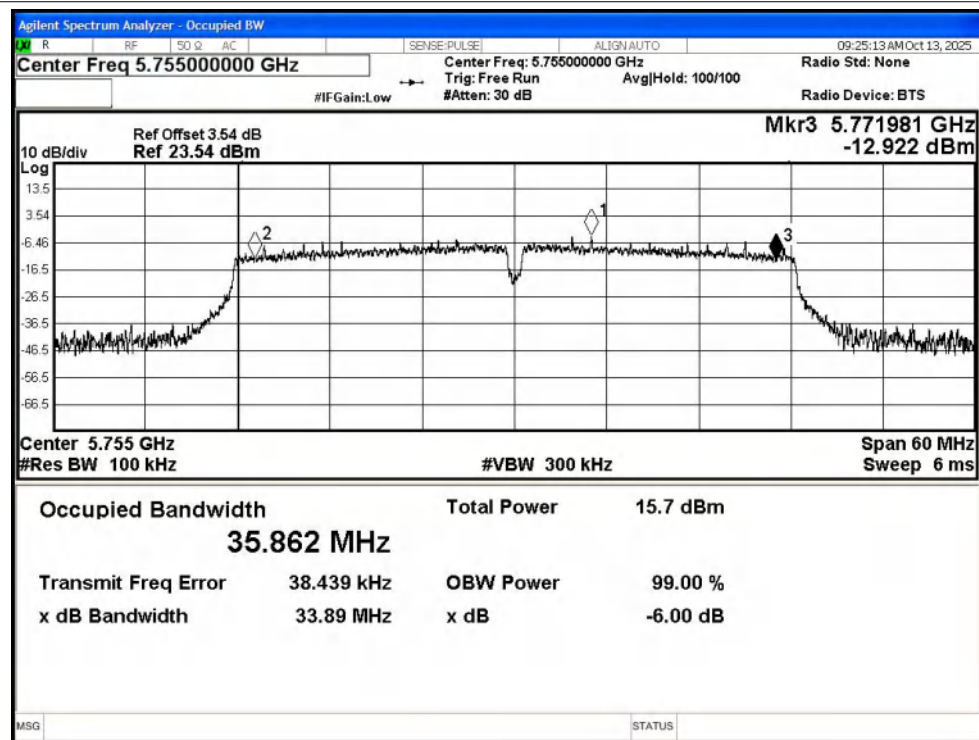
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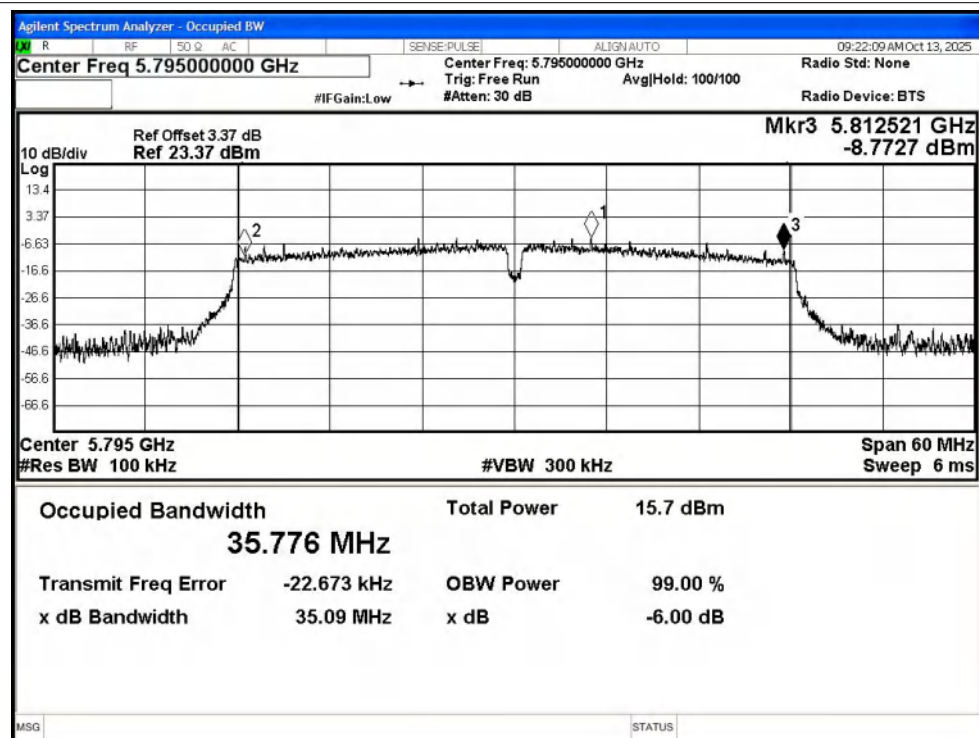
-6dB Bandwidth NVNT ac20 5825MHz Ant1



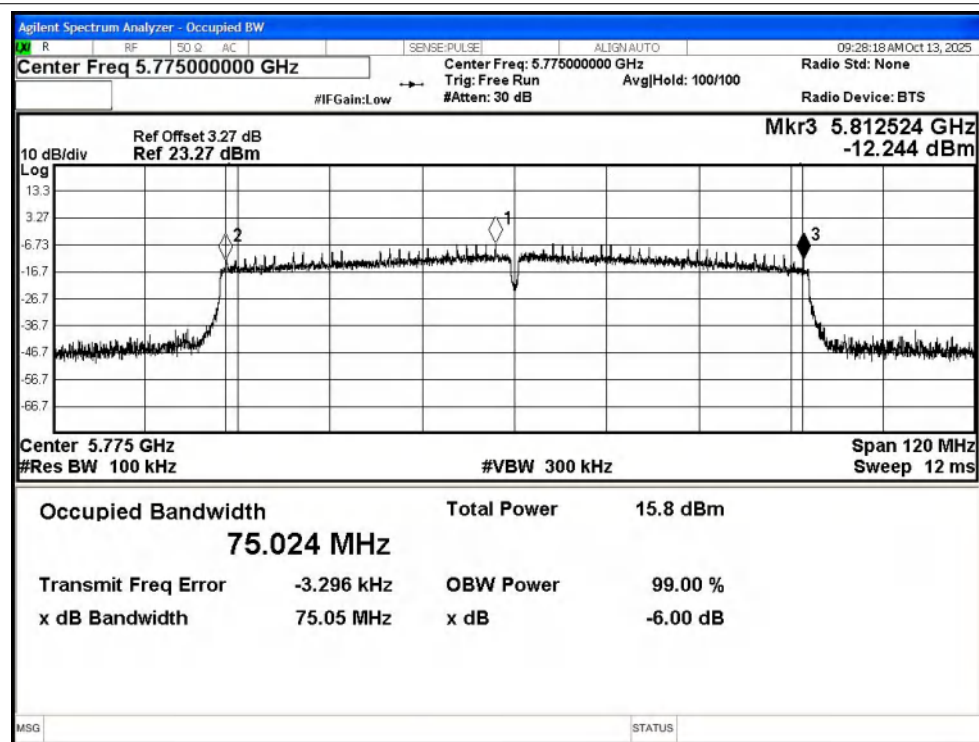
-6dB Bandwidth NVNT ac40 5755MHz Ant1



-6dB Bandwidth NVNT ac40 5795MHz Ant1



-6dB Bandwidth NVNT ac80 5775MHz Ant1



2 Maximum Conducted Output Power

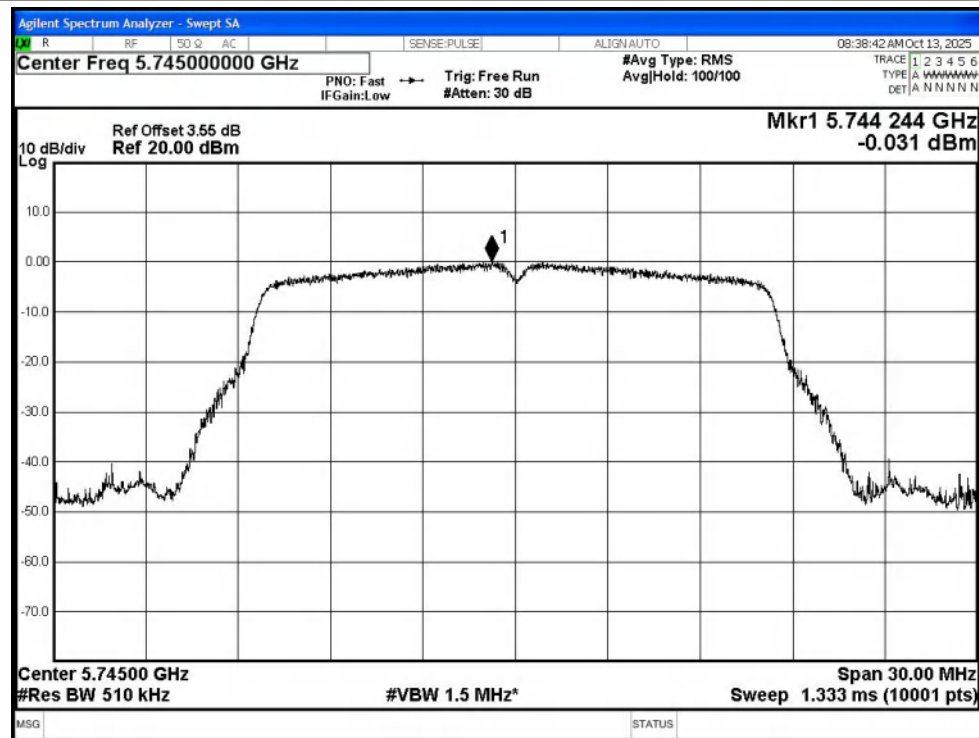
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	12.65	0.11	12.76	30	Pass
NVNT	a	5785	Ant1	12.09	0.11	12.2	30	Pass
NVNT	a	5825	Ant1	11.95	0.11	12.06	30	Pass
NVNT	n20	5745	Ant1	11.93	0.12	12.05	30	Pass
NVNT	n20	5785	Ant1	11.93	0.12	12.05	30	Pass
NVNT	n20	5825	Ant1	11.76	0.12	11.88	30	Pass
NVNT	n40	5755	Ant1	9.66	0.12	9.78	30	Pass
NVNT	n40	5795	Ant1	9.5	0.12	9.62	30	Pass
NVNT	ac20	5745	Ant1	11.86	0.11	11.97	30	Pass
NVNT	ac20	5785	Ant1	11.96	0.11	12.07	30	Pass
NVNT	ac20	5825	Ant1	11.84	0.12	11.96	30	Pass
NVNT	ac40	5755	Ant1	9.62	0.12	9.74	30	Pass
NVNT	ac40	5795	Ant1	9.63	0.12	9.75	30	Pass
NVNT	ac80	5775	Ant1	8.93	0.25	9.18	30	Pass

3 Maximum Power Spectral Density Level

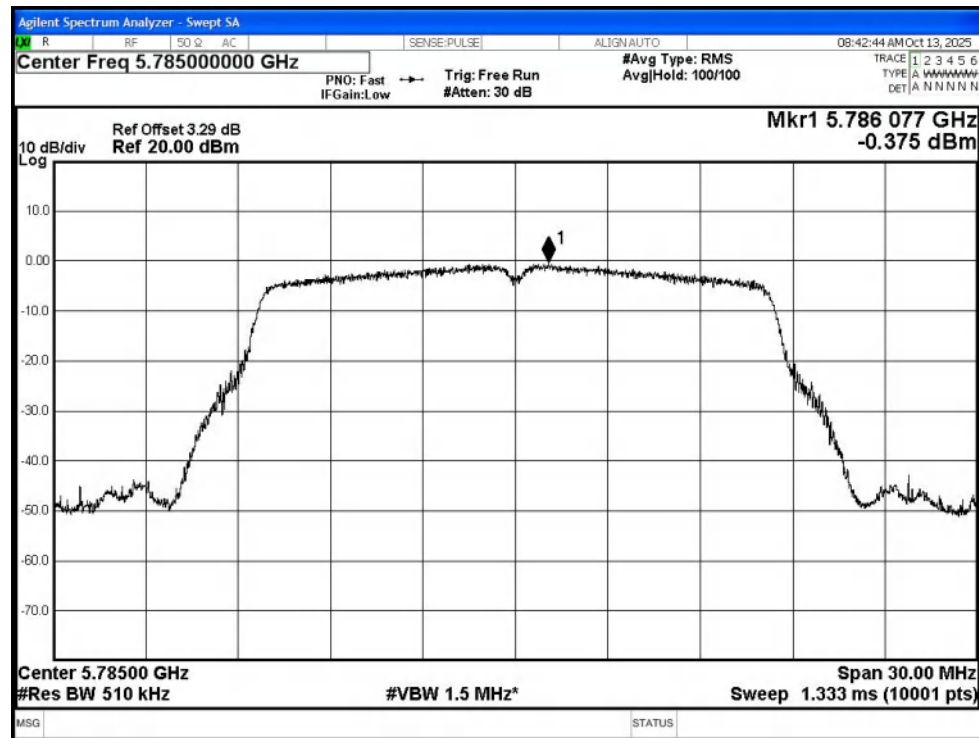
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	-0.03	0.11	0.08	30	Pass
NVNT	a	5785	Ant1	-0.38	0.11	-0.27	30	Pass
NVNT	a	5825	Ant1	-0.68	0.11	-0.57	30	Pass
NVNT	n20	5745	Ant1	-0.87	0.12	-0.75	30	Pass
NVNT	n20	5785	Ant1	-0.94	0.12	-0.82	30	Pass
NVNT	n20	5825	Ant1	-1.02	0.12	-0.9	30	Pass
NVNT	n40	5755	Ant1	-6.32	0.12	-6.2	30	Pass
NVNT	n40	5795	Ant1	-6	0.12	-5.88	30	Pass
NVNT	ac20	5745	Ant1	-0.88	0.11	-0.77	30	Pass
NVNT	ac20	5785	Ant1	-0.8	0.11	-0.69	30	Pass
NVNT	ac20	5825	Ant1	-0.92	0.12	-0.8	30	Pass
NVNT	ac40	5755	Ant1	-6.22	0.12	-6.1	30	Pass
NVNT	ac40	5795	Ant1	-6.11	0.12	-5.99	30	Pass
NVNT	ac80	5775	Ant1	-9.74	0.25	-9.49	30	Pass

Test Graphs

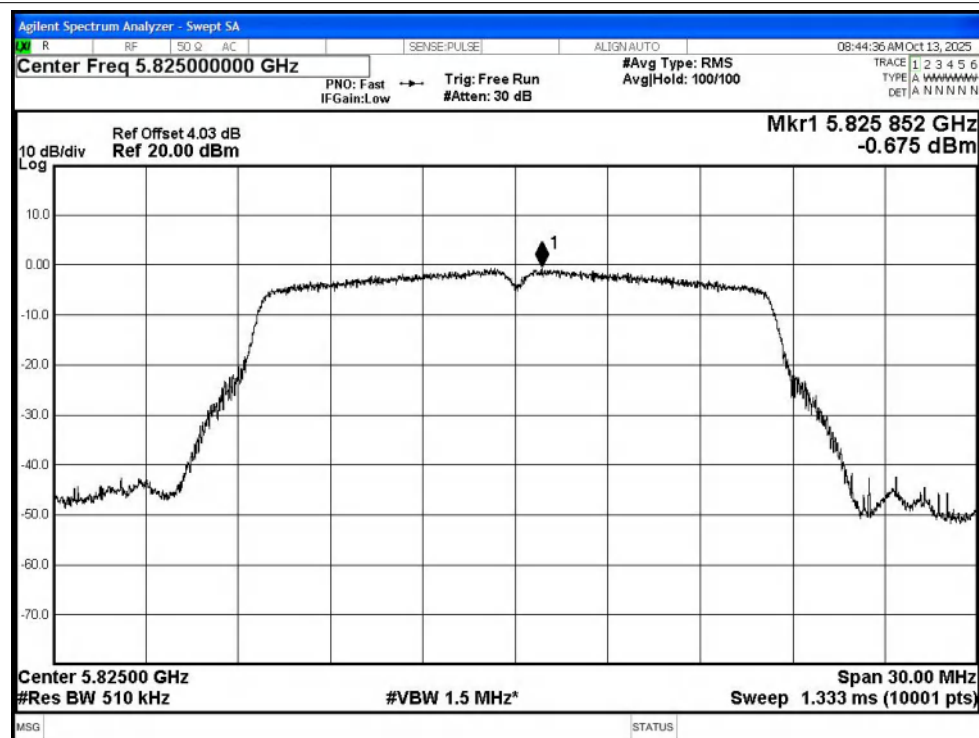
PSD NVNT a 5745MHz Ant1



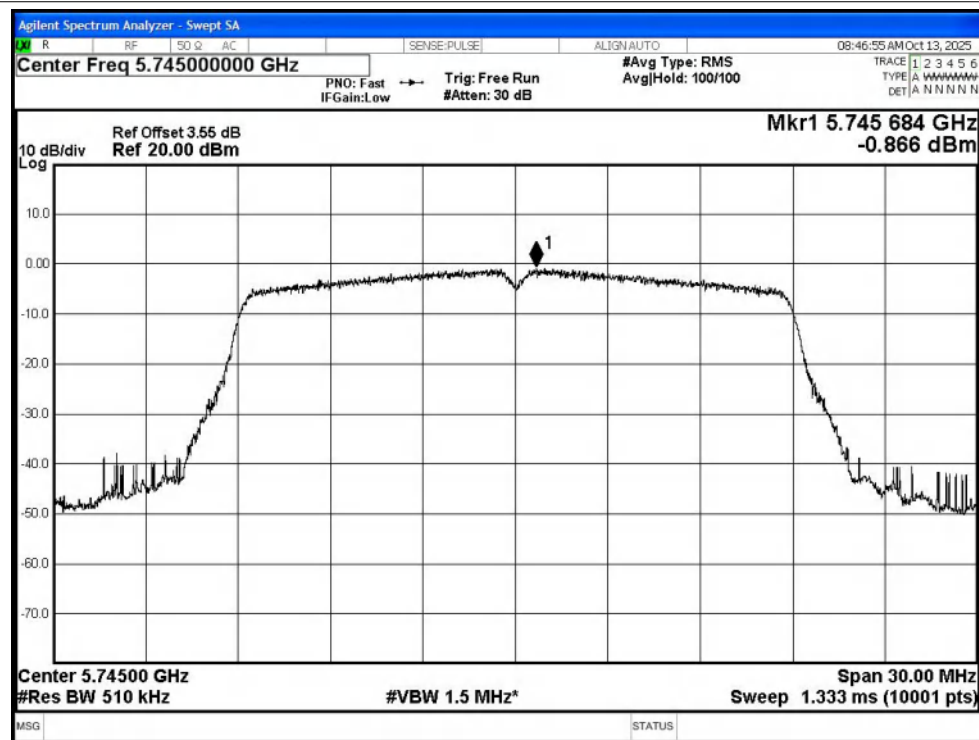
PSD NVNT a 5785MHz Ant1



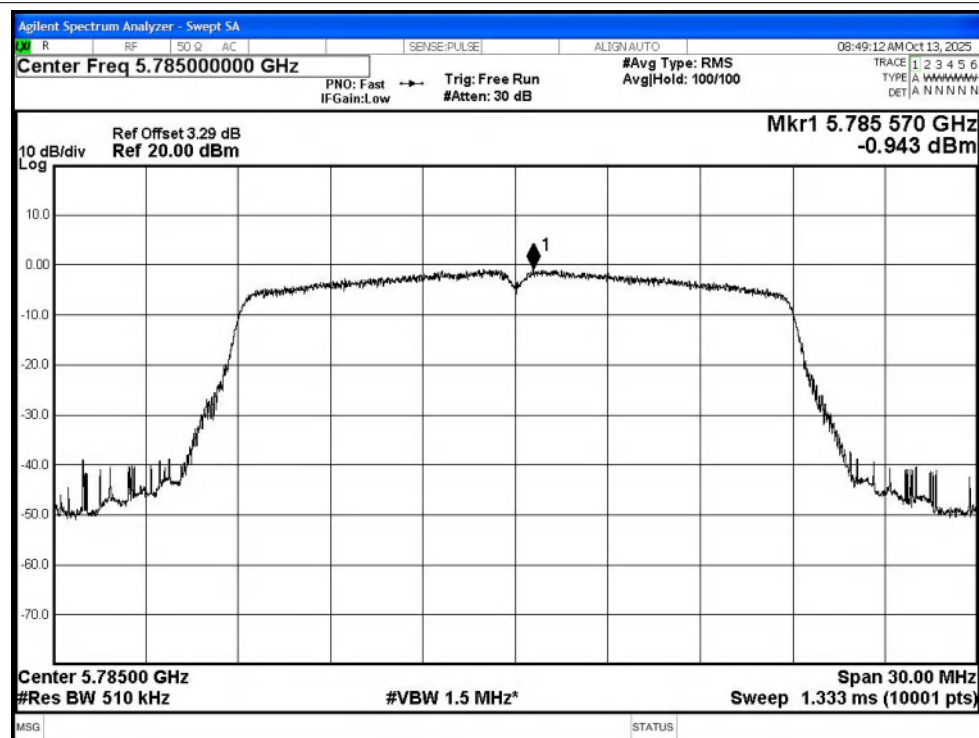
PSD NVNT a 5825MHz Ant1



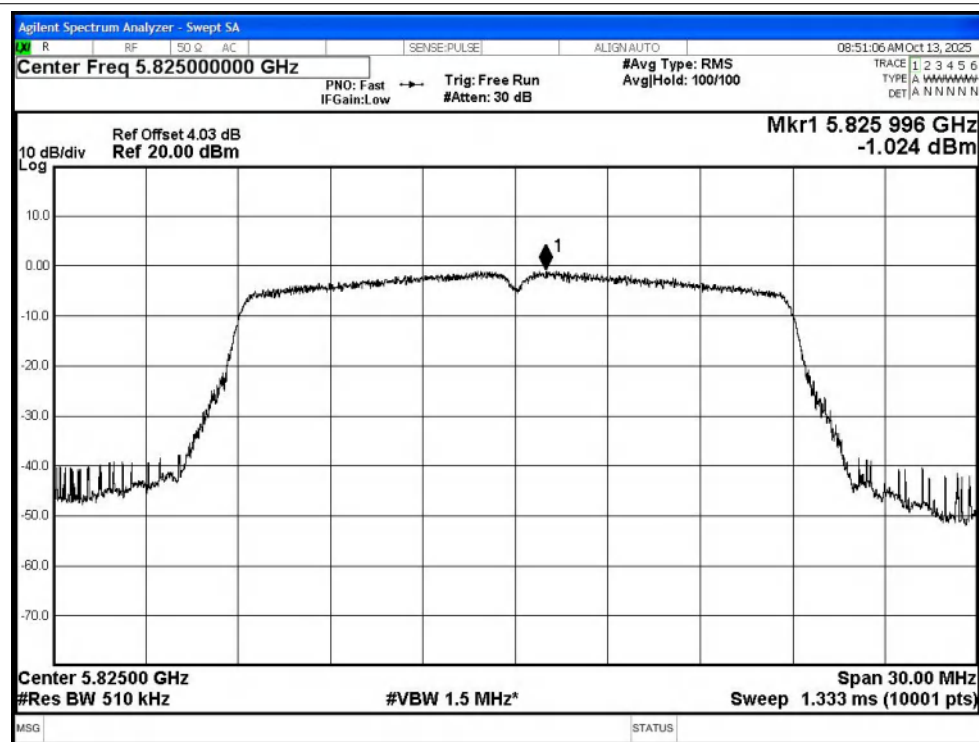
PSD NVNT n20 5745MHz Ant1



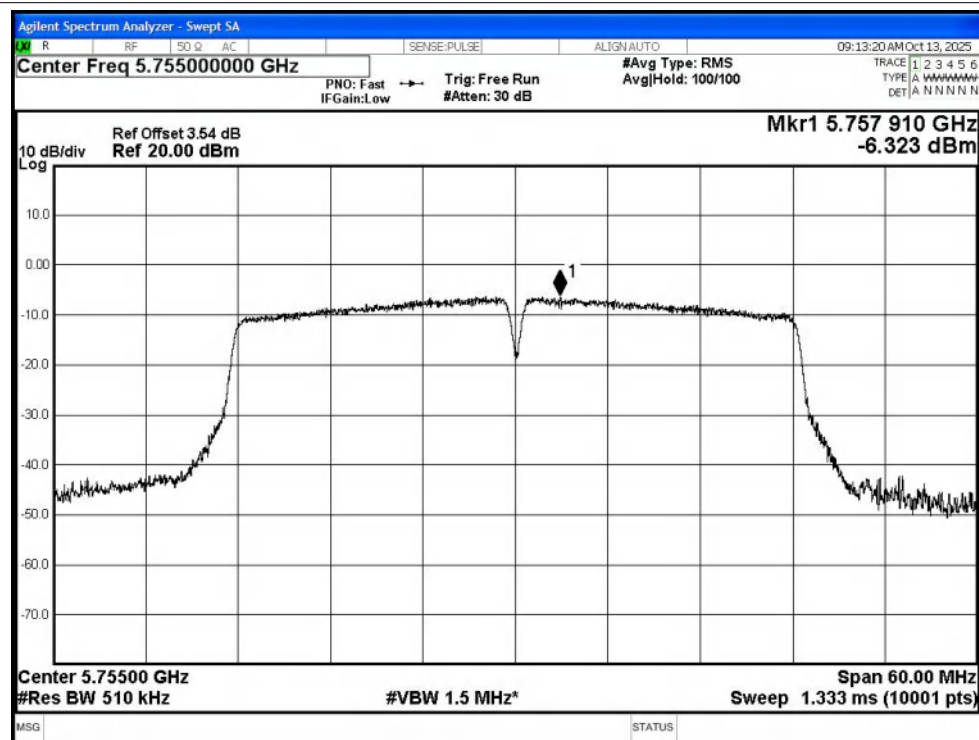
PSD NVNT n20 5785MHz Ant1



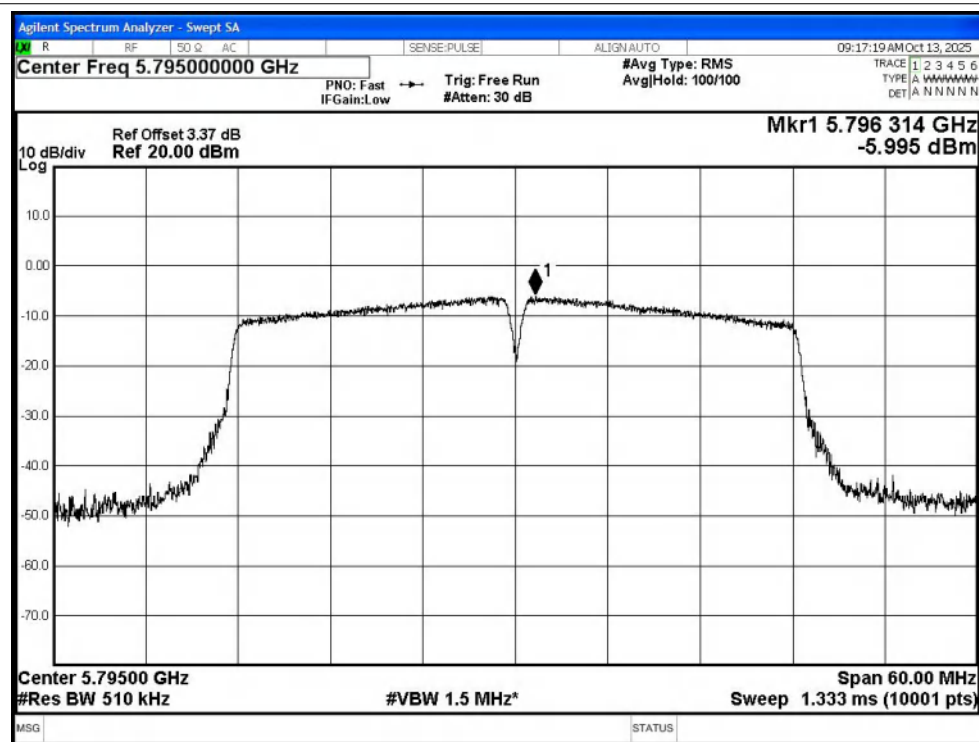
PSD NVNT n20 5825MHz Ant1



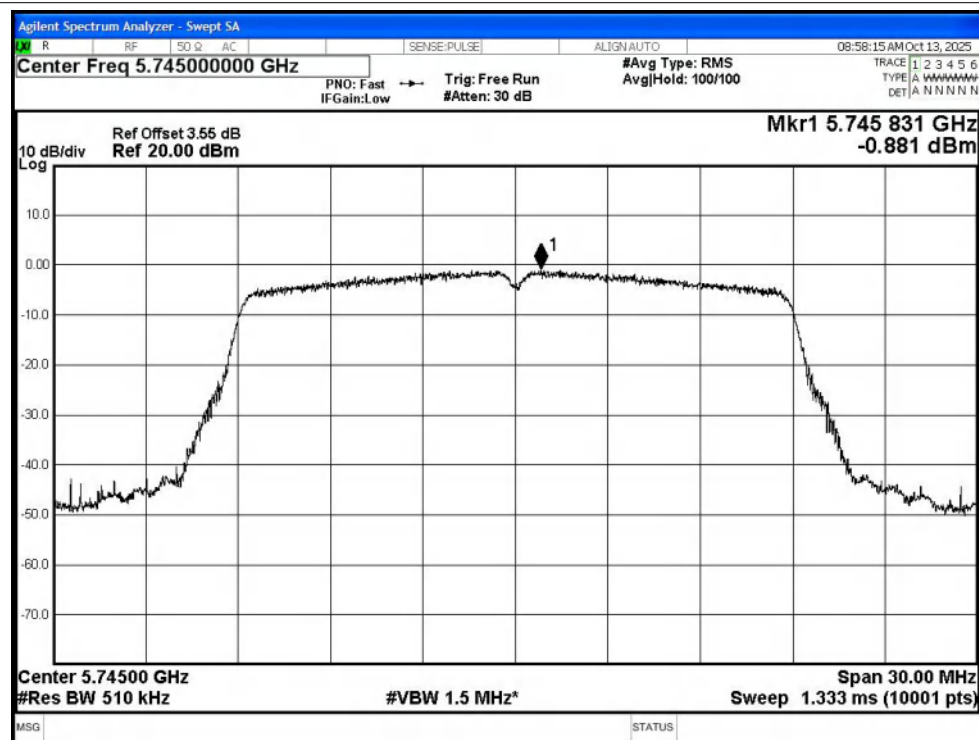
PSD NVNT n40 5755MHz Ant1



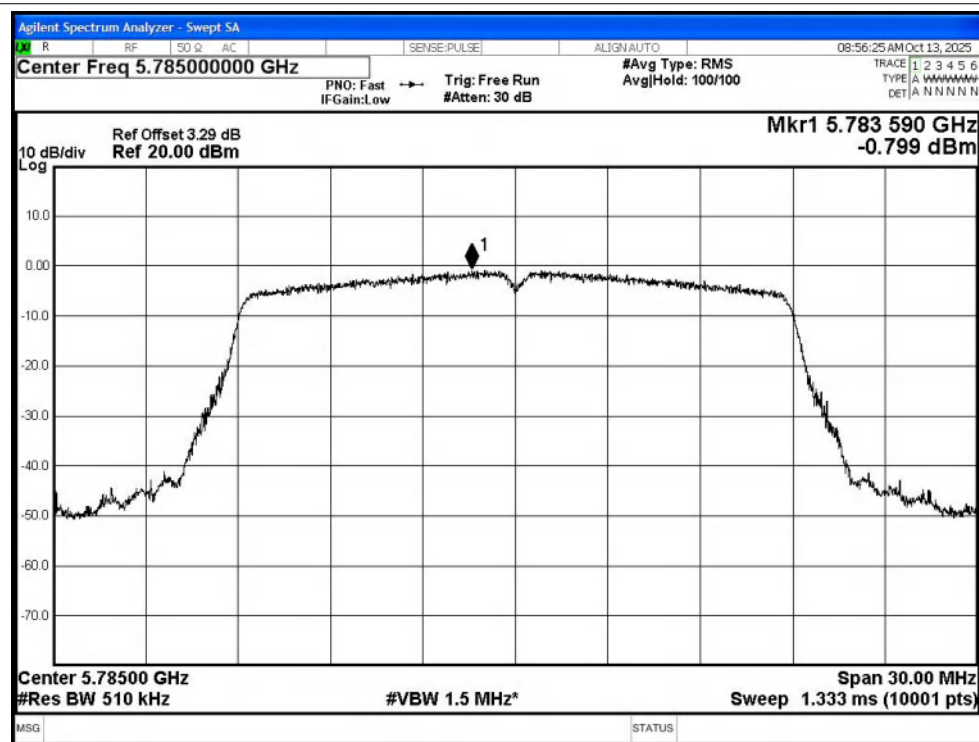
PSD NVNT n40 5795MHz Ant1



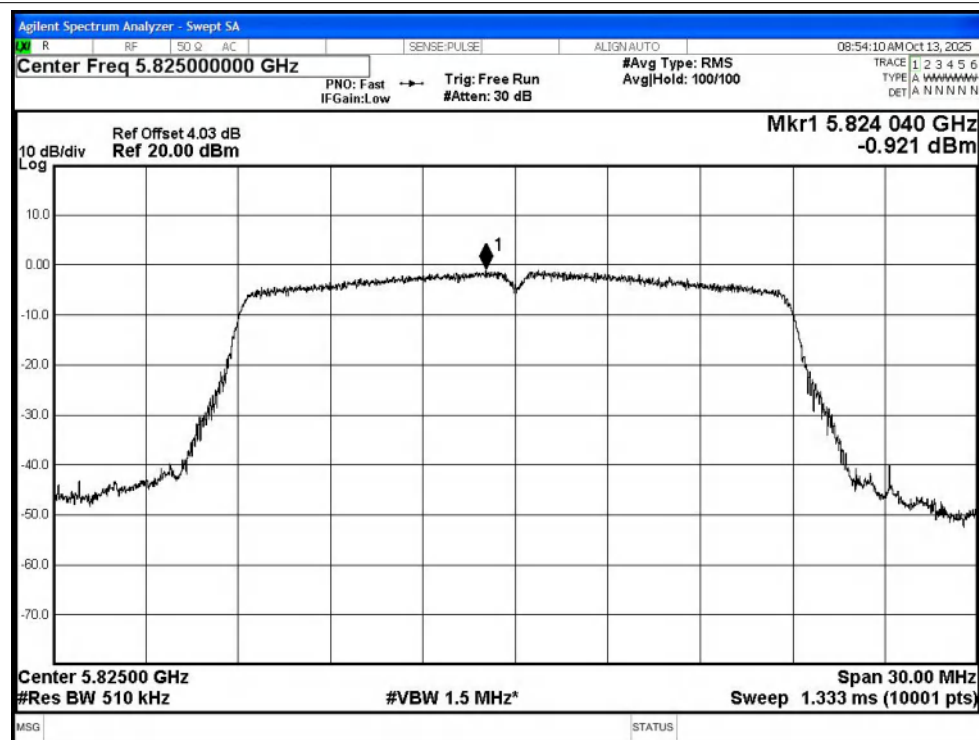
PSD NVNT ac20 5745MHz Ant1



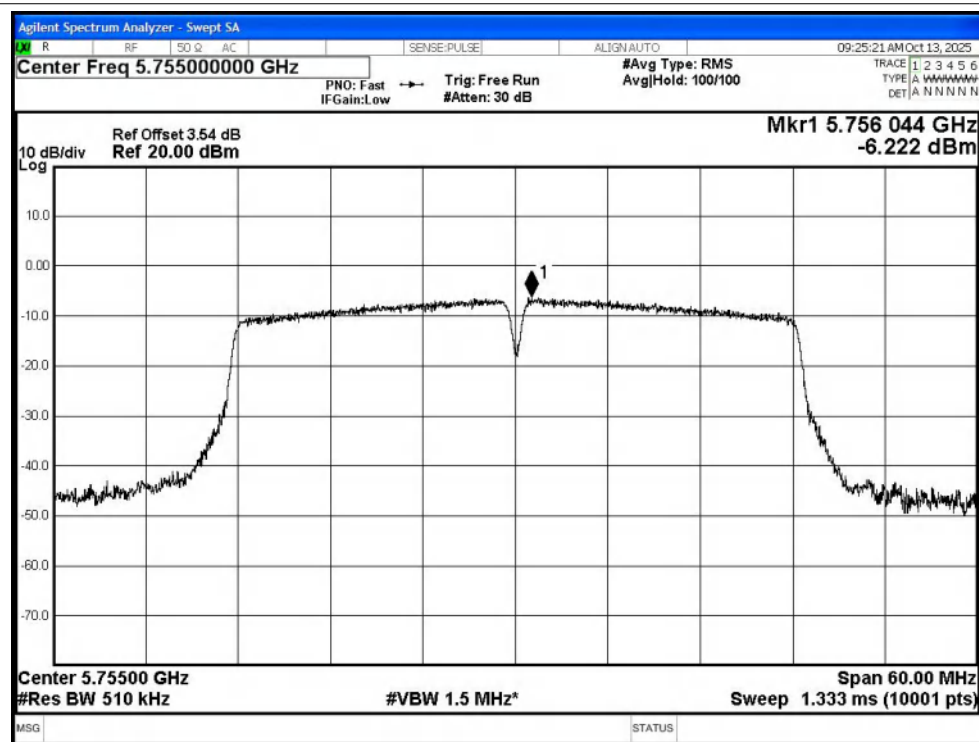
PSD NVNT ac20 5785MHz Ant1



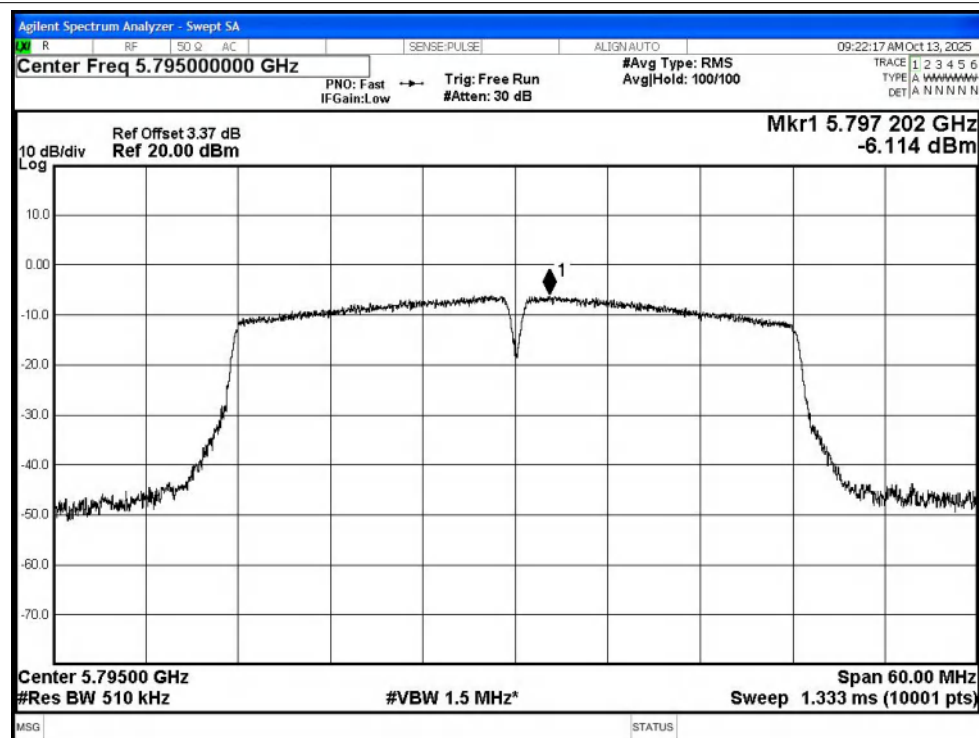
PSD NVNT ac20 5825MHz Ant1



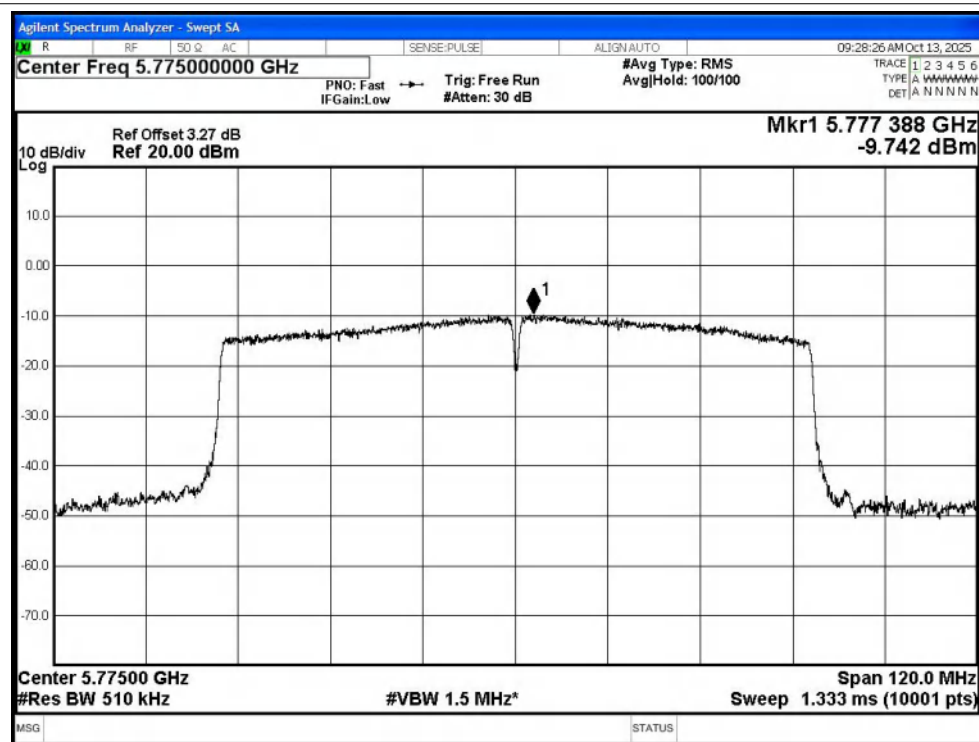
PSD NVNT ac40 5755MHz Ant1



PSD NVNT ac40 5795MHz Ant1



PSD NVNT ac80 5775MHz Ant1

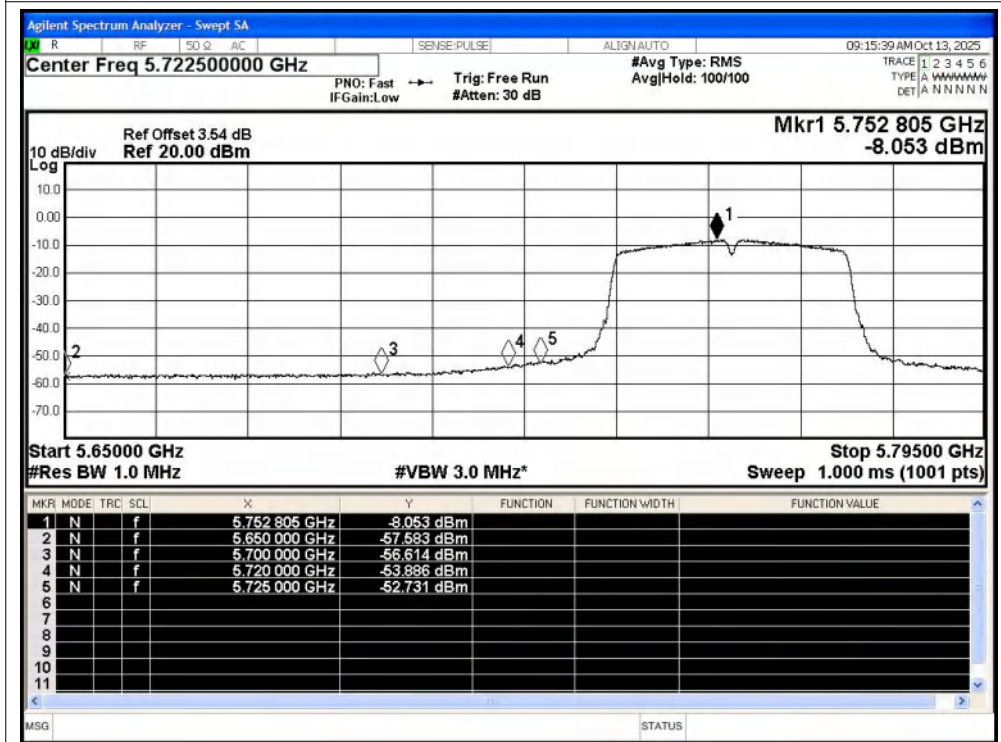
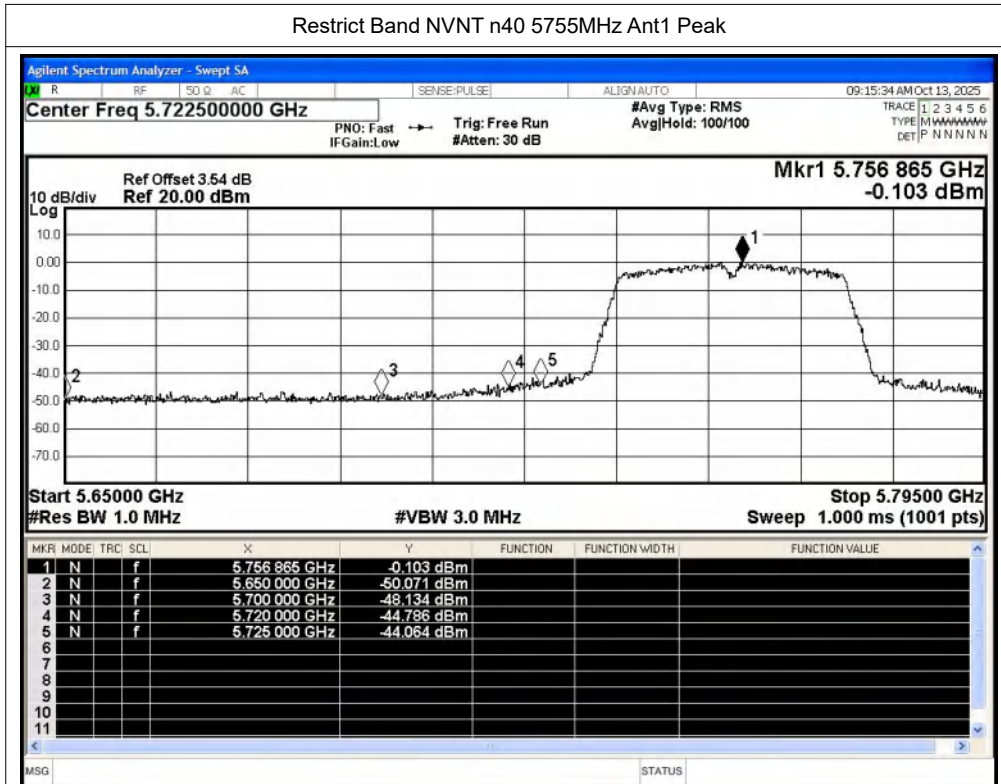


4 Restrict Band

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	-48.1	3.95	-	-44.15	Peak	-27	Pass
NVNT	a	5745	Ant1	5650	-57.94	3.95	0.11	-53.88	Average	-27	Pass
NVNT	a	5745	Ant1	5700	-48.81	3.95	-	-44.86	Peak	10	Pass
NVNT	a	5745	Ant1	5700	-57.57	3.95	0.11	-53.51	Average	10	Pass
NVNT	a	5745	Ant1	5720	-46.3	3.95	-	-42.35	Peak	15.6	Pass
NVNT	a	5745	Ant1	5720	-56.53	3.95	0.11	-52.47	Average	15.6	Pass
NVNT	a	5745	Ant1	5725	-47.64	3.95	-	-43.69	Peak	27	Pass
NVNT	a	5745	Ant1	5725	-54.57	3.95	0.11	-50.51	Average	27	Pass
NVNT	a	5825	Ant1	5850	-49.02	3.95	-	-45.07	Peak	27	Pass
NVNT	a	5825	Ant1	5850	-56.8	3.95	0.11	-52.74	Average	27	Pass
NVNT	a	5825	Ant1	5855	-47.08	3.95	-	-43.13	Peak	15.6	Pass
NVNT	a	5825	Ant1	5855	-56.51	3.95	0.11	-52.45	Average	15.6	Pass
NVNT	a	5825	Ant1	5875	-49.51	3.95	-	-45.56	Peak	10	Pass
NVNT	a	5825	Ant1	5875	-56.8	3.95	0.11	-52.74	Average	10	Pass
NVNT	a	5825	Ant1	5925	-48.19	3.95	-	-44.24	Peak	-27	Pass
NVNT	a	5825	Ant1	5925	-56.67	3.95	0.11	-52.61	Average	-27	Pass
NVNT	n20	5745	Ant1	5650	-48.43	3.95	-	-44.48	Peak	-27	Pass
NVNT	n20	5745	Ant1	5650	-57.34	3.95	0.12	-53.27	Average	-27	Pass
NVNT	n20	5745	Ant1	5700	-49.22	3.95	-	-45.27	Peak	10	Pass
NVNT	n20	5745	Ant1	5700	-56.46	3.95	0.12	-52.39	Average	10	Pass
NVNT	n20	5745	Ant1	5720	-48.04	3.95	-	-44.09	Peak	15.6	Pass
NVNT	n20	5745	Ant1	5720	-55.65	3.95	0.12	-51.58	Average	15.6	Pass
NVNT	n20	5745	Ant1	5725	-35.03	3.95	-	-31.08	Peak	27	Pass
NVNT	n20	5745	Ant1	5725	-52.13	3.95	0.12	-48.06	Average	27	Pass
NVNT	n20	5825	Ant1	5850	-49.18	3.95	-	-45.23	Peak	27	Pass
NVNT	n20	5825	Ant1	5850	-56.12	3.95	0.12	-52.05	Average	27	Pass
NVNT	n20	5825	Ant1	5855	-49.07	3.95	-	-45.12	Peak	15.6	Pass
NVNT	n20	5825	Ant1	5855	-56.52	3.95	0.12	-52.45	Average	15.6	Pass
NVNT	n20	5825	Ant1	5875	-48.42	3.95	-	-44.47	Peak	10	Pass
NVNT	n20	5825	Ant1	5875	-56.5	3.95	0.12	-52.43	Average	10	Pass
NVNT	n20	5825	Ant1	5925	-47.66	3.95	-	-43.71	Peak	-27	Pass
NVNT	n20	5825	Ant1	5925	-56.48	3.95	0.12	-52.41	Average	-27	Pass
NVNT	n40	5755	Ant1	5650	-50.07	3.95	-	-46.12	Peak	-27	Pass
NVNT	n40	5755	Ant1	5650	-57.58	3.95	0.12	-53.51	Average	-27	Pass
NVNT	n40	5755	Ant1	5700	-48.13	3.95	-	-44.18	Peak	10	Pass
NVNT	n40	5755	Ant1	5700	-56.61	3.95	0.12	-52.54	Average	10	Pass
NVNT	n40	5755	Ant1	5720	-44.79	3.95	-	-40.84	Peak	15.6	Pass
NVNT	n40	5755	Ant1	5720	-53.89	3.95	0.12	-49.82	Average	15.6	Pass
NVNT	n40	5755	Ant1	5725	-44.06	3.95	-	-40.11	Peak	27	Pass

NVNT	n40	5755	Ant1	5725	-52.73	3.95	0.12	-48.66	Average	27	Pass
NVNT	n40	5795	Ant1	5850	-43.81	3.95	-	-39.86	Peak	27	Pass
NVNT	n40	5795	Ant1	5850	-54.13	3.95	0.12	-50.06	Average	27	Pass
NVNT	n40	5795	Ant1	5855	-44.13	3.95	-	-40.18	Peak	15.6	Pass
NVNT	n40	5795	Ant1	5855	-55.13	3.95	0.12	-51.06	Average	15.6	Pass
NVNT	n40	5795	Ant1	5875	-48.74	3.95	-	-44.79	Peak	10	Pass
NVNT	n40	5795	Ant1	5875	-56.89	3.95	0.12	-52.82	Average	10	Pass
NVNT	n40	5795	Ant1	5925	-49.13	3.95	-	-45.18	Peak	-27	Pass
NVNT	n40	5795	Ant1	5925	-56.89	3.95	0.12	-52.82	Average	-27	Pass
NVNT	ac20	5745	Ant1	5650	-48.99	3.95	-	-45.04	Peak	-27	Pass
NVNT	ac20	5745	Ant1	5650	-56.79	3.95	0.11	-52.73	Average	-27	Pass
NVNT	ac20	5745	Ant1	5700	-47.73	3.95	-	-43.78	Peak	10	Pass
NVNT	ac20	5745	Ant1	5700	-55.31	3.95	0.11	-51.25	Average	10	Pass
NVNT	ac20	5745	Ant1	5720	-37.88	3.95	-	-33.93	Peak	15.6	Pass
NVNT	ac20	5745	Ant1	5720	-51.51	3.95	0.11	-47.45	Average	15.6	Pass
NVNT	ac20	5745	Ant1	5725	-39.57	3.95	-	-35.62	Peak	27	Pass
NVNT	ac20	5745	Ant1	5725	-49.27	3.95	0.11	-45.21	Average	27	Pass
NVNT	ac20	5825	Ant1	5850	-46.17	3.95	-	-42.22	Peak	27	Pass
NVNT	ac20	5825	Ant1	5850	-50.94	3.95	0.12	-46.87	Average	27	Pass
NVNT	ac20	5825	Ant1	5855	-42	3.95	-	-38.05	Peak	15.6	Pass
NVNT	ac20	5825	Ant1	5855	-53.34	3.95	0.12	-49.27	Average	15.6	Pass
NVNT	ac20	5825	Ant1	5875	-47.55	3.95	-	-43.6	Peak	10	Pass
NVNT	ac20	5825	Ant1	5875	-55.21	3.95	0.12	-51.14	Average	10	Pass
NVNT	ac20	5825	Ant1	5925	-47.52	3.95	-	-43.57	Peak	-27	Pass
NVNT	ac20	5825	Ant1	5925	-55.74	3.95	0.12	-51.67	Average	-27	Pass
NVNT	ac40	5755	Ant1	5650	-50.27	3.95	-	-46.32	Peak	-27	Pass
NVNT	ac40	5755	Ant1	5650	-57.35	3.95	0.12	-53.28	Average	-27	Pass
NVNT	ac40	5755	Ant1	5700	-49.58	3.95	-	-45.63	Peak	10	Pass
NVNT	ac40	5755	Ant1	5700	-58.04	3.95	0.12	-53.97	Average	10	Pass
NVNT	ac40	5755	Ant1	5720	-48.25	3.95	-	-44.3	Peak	15.6	Pass
NVNT	ac40	5755	Ant1	5720	-55.96	3.95	0.12	-51.89	Average	15.6	Pass
NVNT	ac40	5755	Ant1	5725	-46.47	3.95	-	-42.52	Peak	27	Pass
NVNT	ac40	5755	Ant1	5725	-54.71	3.95	0.12	-50.64	Average	27	Pass
NVNT	ac40	5795	Ant1	5850	-49.65	3.95	-	-45.7	Peak	27	Pass
NVNT	ac40	5795	Ant1	5850	-58.49	3.95	0.12	-54.42	Average	27	Pass
NVNT	ac40	5795	Ant1	5855	-51.39	3.95	-	-47.44	Peak	15.6	Pass
NVNT	ac40	5795	Ant1	5855	-57.79	3.95	0.12	-53.72	Average	15.6	Pass
NVNT	ac40	5795	Ant1	5875	-49.96	3.95	-	-46.01	Peak	10	Pass
NVNT	ac40	5795	Ant1	5875	-57.59	3.95	0.12	-53.52	Average	10	Pass
NVNT	ac40	5795	Ant1	5925	-49.63	3.95	-	-45.68	Peak	-27	Pass
NVNT	ac40	5795	Ant1	5925	-57.56	3.95	0.12	-53.49	Average	-27	Pass
NVNT	ac80	5775	Ant1	5850	-49.06	3.95	-	-45.11	Peak	27	Pass
NVNT	ac80	5775	Ant1	5850	-56.48	3.95	0.25	-52.28	Average	27	Pass
NVNT	ac80	5775	Ant1	5855	-47.39	3.95	-	-43.44	Peak	15.6	Pass

NVNT	ac80	5775	Ant1	5855	-56.6	3.95	0.25	-52.4	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5875	-48.67	3.95	-	-44.72	Peak	10	Pass
NVNT	ac80	5775	Ant1	5875	-57.5	3.95	0.25	-53.3	Average	10	Pass
NVNT	ac80	5775	Ant1	5925	-50.5	3.95	-	-46.55	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5925	-58	3.95	0.25	-53.8	Average	-27	Pass
NVNT	ac80	5775	Ant1	5650	-49.48	3.95	-	-45.53	Peak	-27	Pass
NVNT	ac80	5775	Ant1	5650	-57.23	3.95	0.25	-53.03	Average	-27	Pass
NVNT	ac80	5775	Ant1	5700	-46.38	3.95	-	-42.43	Peak	10	Pass
NVNT	ac80	5775	Ant1	5700	-55.48	3.95	0.25	-51.28	Average	10	Pass
NVNT	ac80	5775	Ant1	5720	-42.19	3.95	-	-38.24	Peak	15.6	Pass
NVNT	ac80	5775	Ant1	5720	-52.7	3.95	0.25	-48.5	Average	15.6	Pass
NVNT	ac80	5775	Ant1	5725	-42.67	3.95	-	-38.72	Peak	27	Pass
NVNT	ac80	5775	Ant1	5725	-51.38	3.95	0.25	-47.18	Average	27	Pass



Agilent Spectrum Analyzer - Swept SA

Center Freq 5.84000000 GHz

Ref Offset 3.37 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.793 42 GHz
3.873 dBm

Start 5.7500 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.92500 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.793 42 GHz	3.873 dBm			
2	N		f	5.850 00 GHz	-43.814 dBm			
3	N		f	5.855 00 GHz	-44.125 dBm			
4	N		f	5.875 00 GHz	-48.735 dBm			
5	N		f	5.925 00 GHz	-49.134 dBm			

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN AUTO 09:17:38 AM Oct 13, 2025

Center Freq 5.840000000 GHz

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

TRACE 1 2 3 4 5 6
TYPE A WWWWWWWW
DET A NNNNNN

Ref Offset 3.37 dB
Ref 20.00 dBm

Mkr1 5.796 48 GHz
-3.657 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		5.796 48 GHz	-3.657 dBm			
2	N	f		5.850 00 GHz	-54.132 dBm			
3	N	f		5.855 00 GHz	-55.125 dBm			
4	N	f		5.875 00 GHz	-56.886 dBm			
5	N	f		5.925 00 GHz	-56.893 dBm			

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.707500000 GHz

Ref Offset 3.55 dB
Ref 20.00 dBm

10 dB/div

Log

Mkr1 5.743 84 GHz
9.000 dBm

Start 5.65000 GHz
#Res BW 1.0 MHz

Stop 5.76500 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	5.743 84 GHz	9.000 dBm			
2	N		f	5.650 00 GHz	-48.992 dBm			
3	N		f	5.700 00 GHz	-47.728 dBm			
4	N		f	5.720 00 GHz	-37.884 dBm			
5	N		f	5.725 00 GHz	-39.570 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.865000000 GHz

Ref Offset 4.03 dB
Ref 20.00 dBm

10 dB/div

Log

Mkr1 5.823 72 GHz
8.709 dBm

Start 5.80500 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.92500 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.823 72 GHz	8.709 dBm			
2	N		f	5.850 00 GHz	-46.166 dBm			
3	N		f	5.865 00 GHz	-41.999 dBm			
4	N		f	5.875 00 GHz	-47.550 dBm			
5	N		f	5.925 00 GHz	-47.521 dBm			

Agilent Spectrum Analyzer - Swept SA

08:55:22 AM Oct 13, 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 5.824 32 GHz 1.065 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	5.824 32 GHz	1.065 dBm			
2	N		f	5.850 00 GHz	-50.936 dBm			
3	N		f	5.855 00 GHz	-53.336 dBm			
4	N		f	5.875 00 GHz	-55.205 dBm			
5	N		f	5.925 00 GHz	-55.744 dBm			
6								
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MSG

FUNCTION

Restrict Band VNVT ac40 5755MHz Ant1 Peak

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.722500000 GHz

Ref Offset 3.54 dB
Ref 20.00 dBm

Mkr1 5.759 040 GHz
-2.766 dBm

Start 5.65000 GHz
#Res BW 1.0 MHz

Stop 5.79500 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	5.759 040 GHz	-2.766 dBm			
2	N		f	5.650 000 GHz	-50.265 dBm			
3	N		f	5.700 000 GHz	-49.582 dBm			
4	N		f	5.720 000 GHz	-48.249 dBm			
5	N		f	5.725 000 GHz	-46.469 dBm			

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.84000000 GHz

Ref Offset 3.37 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.796 82 GHz
-3.337 dBm

Start 5.7500 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.92500 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.796 82 GHz	-3.337 dBm			
2	N		f	5.850 00 GHz	-49.654 dBm			
3	N		f	5.855 00 GHz	-51.391 dBm			
4	N		f	5.875 00 GHz	-49.961 dBm			
5	N		f	5.925 00 GHz	-49.627 dBm			

Agilent Spectrum Analyzer - Swept SA

R RF SO Q AC SENSE-PULSE ALIGN-AUTO 09:24:07 AM Oct 13, 2025

Center Freq 5.840000000 GHz

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

TRACE 1: 2 3 4 5 6
TYPE A WWWWWWWW
DET A NNNNNN

Ref Offset 3.37 dB
Ref 20.00 dBm

Mkr1 5.793 93 GHz
-10.904 dBm

MKR	MODE	FREQ	POWER
1	N	5.793 93 GHz	-10.904 dBm
2	N	5.850 00 GHz	-58.487 dBm
3	N	5.855 00 GHz	-57.791 dBm
4	N	5.875 00 GHz	-57.592 dBm
5	N	5.925 00 GHz	-57.556 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	TRE	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.793 93 GHz	-10.904 dBm			
2	N	f		5.850 00 GHz	-58.487 dBm			
3	N	f		5.855 00 GHz	-57.791 dBm			
4	N	f		5.875 00 GHz	-57.592 dBm			
5	N	f		5.925 00 GHz	-57.556 dBm			

Restrict Band NVNT ac80 5775MHz Ant1 Peak

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.810000000 GHz

Ref Offset 3.27 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.773 43 GHz
-2.830 dBm

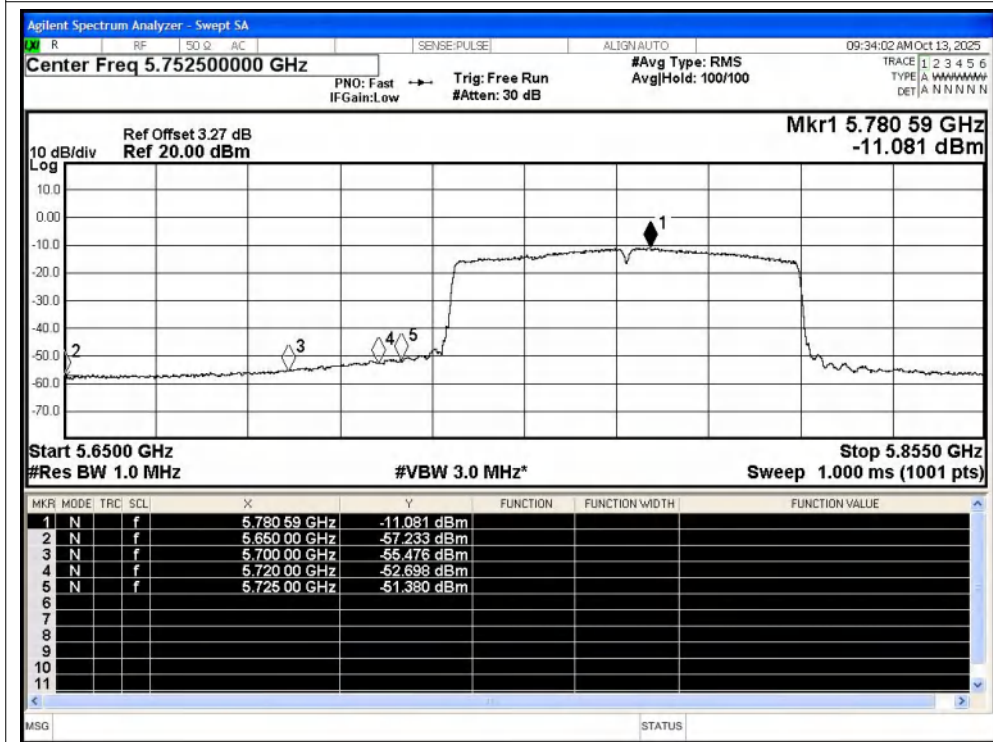
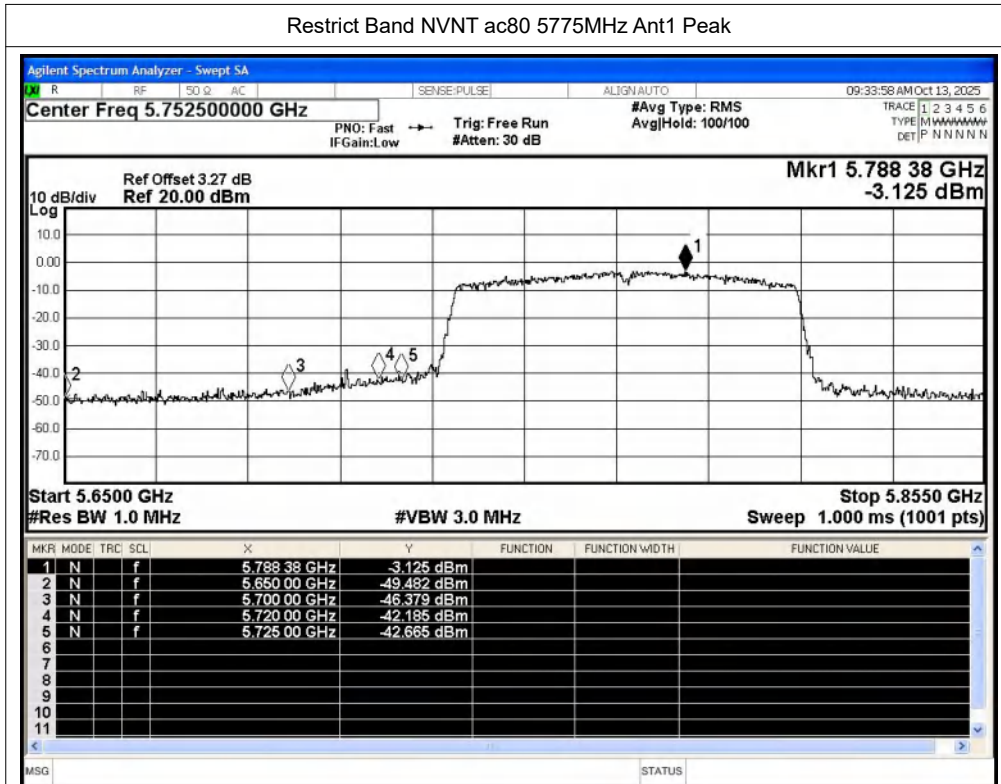
Start 5.6950 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.9250 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.773 43 GHz	-2.830 dBm			
2	N		f	5.850 00 GHz	-49.059 dBm			
3	N		f	5.855 00 GHz	-47.385 dBm			
4	N		f	5.875 00 GHz	-48.668 dBm			
5	N		f	5.925 00 GHz	-50.498 dBm			

[illegible]



5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5745	Ant1	5745	0	0	25	Pass
NVNT	a	5785	Ant1	5785	0	0	25	Pass
NVNT	a	5825	Ant1	5825	0	0	25	Pass
NVNT	n20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	n20	5785	Ant1	5785	0	0	25	Pass
NVNT	n20	5825	Ant1	5825	0	0	25	Pass
NVNT	n40	5755	Ant1	5755	0	0	25	Pass
NVNT	n40	5795	Ant1	5795	0	0	25	Pass
NVNT	ac20	5745	Ant1	5744.98	-20000	-3.48	25	Pass
NVNT	ac20	5785	Ant1	5785	0	0	25	Pass
NVNT	ac20	5825	Ant1	5825	0	0	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	5775	0	0	25	Pass

[illegible][illegible]

[illegible][illegible]

[illegible][illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.74500000 GHz

Ref Offset 3.55 dB
Ref 20.00 dBm

Mkr1 5.744 98 GHz
-18.946 dBm

Span 40.00 MHz
Sweep 382.3 ms (1001 pts)

#VBW 30 kHz

#Res BW 10 kHz

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS
Avg|Hold: 10/10

PN0: Fast
IFGain: Low

08:59:13 AM Oct 13, 2025

TRACE 1 2 3 4 5 6
TYPE M M M M M M M M
DET P N N N N N N

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.744 98 GHz	-18.946 dBm			
2	N		f	5.736 12 GHz	-16.733 dBm			
3	N		f	5.753 84 GHz	-13.673 dBm			
4								
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[illegible]

[illegible][illegible]

[illegible]

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.77500000 GHz

Ref Offset 3.27 dB
Ref 20.00 dBm

Log

10 dB/div

Span 160.0 MHz

Sweep 1.529 s (1001 pts)

#VBW 30 kHz

#Res BW 10 kHz

Center 5.7750 GHz

Mkr1 5.775 00 GHz

-30.253 dBm

Trig: Free Run

#Atten: 30 dB

#Avg Type: RMS

Avg/Hold: 10/10

09:33:07 AM Oct 13, 2025

TRACE 1 2 3 4 5 6

TYPE: M W W W W W W W

DET: P N N N N N N

PN0: Fast IF Gain: Low

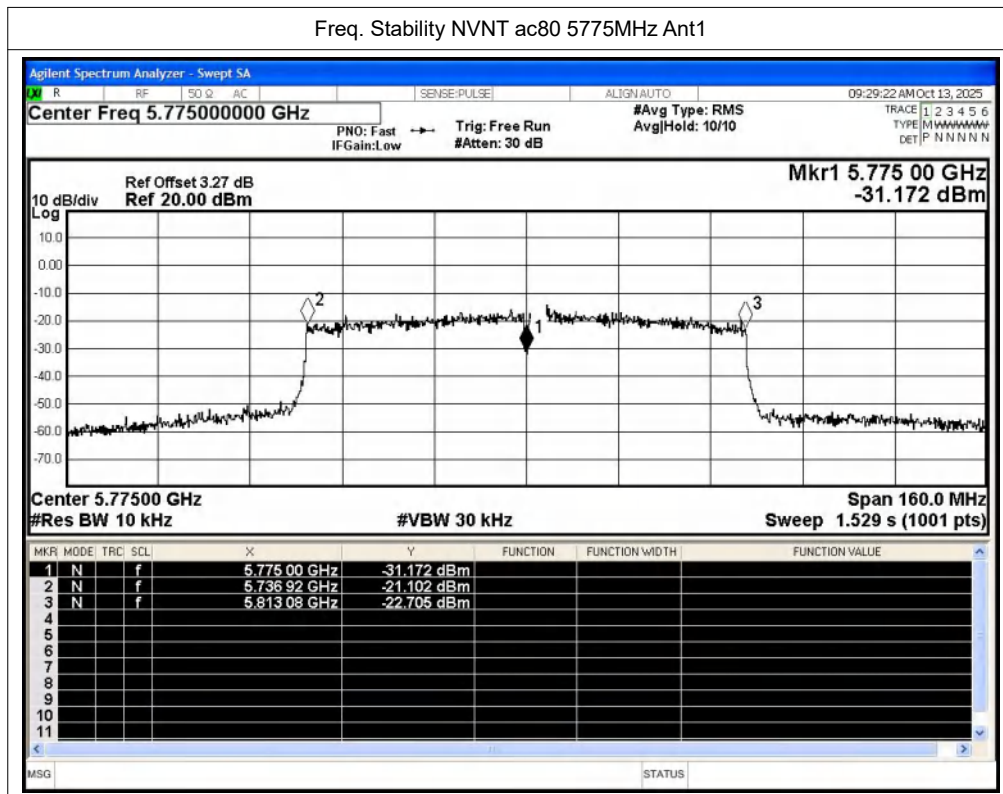
SENSE: PULSE

ALIGN: AUTO

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.775 00 GHz	-30.253 dBm			
2	N		f	5.736 76 GHz	-23.207 dBm			
3	N		f	5.813 24 GHz	-23.560 dBm			
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9								
10								
11								

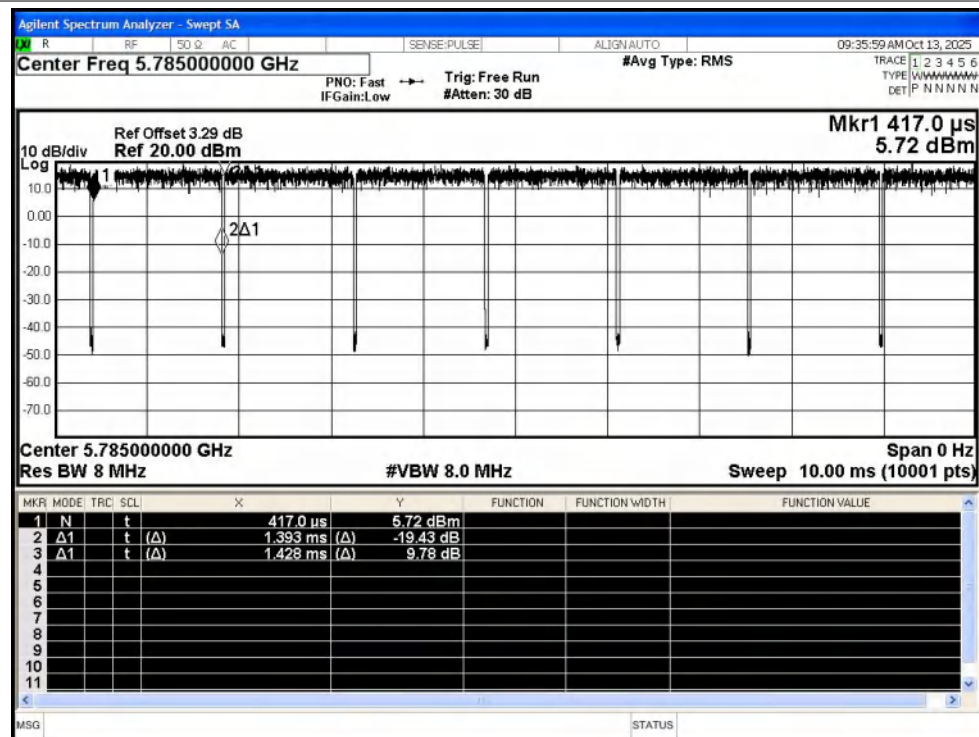
MSG

STATUS



6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	97.48	0.11	0.72
NVNT	a	5785	Ant1	97.55	0.11	0.72
NVNT	a	5825	Ant1	97.55	0.11	0.72
NVNT	n20	5745	Ant1	97.31	0.12	0.77
NVNT	n20	5785	Ant1	97.31	0.12	0.77
NVNT	n20	5825	Ant1	97.38	0.12	0.77
NVNT	n40	5755	Ant1	97.33	0.12	0.81
NVNT	n40	5795	Ant1	97.25	0.12	0.81
NVNT	ac20	5745	Ant1	97.38	0.12	0.77
NVNT	ac20	5785	Ant1	97.31	0.12	0.77
NVNT	ac20	5825	Ant1	97.38	0.12	0.77
NVNT	ac40	5755	Ant1	97.26	0.12	0.8
NVNT	ac40	5795	Ant1	97.26	0.12	0.8
NVNT	ac80	5775	Ant1	94.45	0.25	1.68



[illegible]

Duty Cycle NVNT n20 5745MHz Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.74500000 GHz

Ref Offset 3.55 dB
Ref 20.00 dBm

Mkr1 1.347 ms
14.99 dBm

Center 5.74500000 GHz
Res BW 8 MHz

#VBW 8.0 MHz

Sweep 10.00 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		t	1.347 ms	14.99 dBm			
2	Δ1		t (Δ)	1.300 ms (Δ)	-1.78 dB			
3	Δ1		t (Δ)	1.336 ms (Δ)	-0.34 dB			
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MSG

STATUS

[illegible][illegible]

Duty Cycle NVNT n40 5755MHz Ant1

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.755000000 GHz #Avg Type: RMS 09:12:40 AM Oct 13, 2025

PN0: Fast IFGain: Low Trig: Free Run #Atten: 30 dB

Ref Offset 3.54 dB Ref 20.00 dBm

Mkr1 465.0 μs -1.53 dBm

Center 5.755000000 GHz Span 0 Hz

Res BW 8 MHz #VBW 8.0 MHz Sweep 10.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		t	465.0 μs	-1.53 dBm			
2	Δ1		t (Δ)	1.241 ms (Δ)	-12.89 dB			
3	Δ1		t (Δ)	1.275 ms (Δ)	0.04 dB			
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MSG STATUS

[illegible]

Duty Cycle NVNT ac20 5745MHz Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.745000000 GHz

Ref Offset 3.55 dB
Ref 20.00 dBm

10 dB/div
Log

PNO: Fast IFGain: Low

Trig: Free Run
#Atten: 30 dB

#Avg Type: RMS

09:55:22 AM Oct 13, 2025

TRACE 1 2 3 4 5 6
TYPE VVVVVVVVVV
DET P N N N N N

Mkr1 1.086 ms
15.48 dBm

Center 5.745000000 GHz

Res BW 8 MHz

#VBW 8.0 MHz

Sweep 10.00 ms (10001 pts)

Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		t	1.086 ms	15.48 dBm			
2	$\Delta 1$		t (Δ)	1.301 ms (Δ)	-36.67 dB			
3	$\Delta 1$		t (Δ)	1.336 ms (Δ)	0.05 dB			
4								
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MSG

STATUS

[illegible]

[illegible][illegible]

[illegible][illegible]