

FCC Appendix RF Test Data for 5.5GWIFI

Product Name: Smart Diagnostic System

Test Model: P720

Environmental Conditions

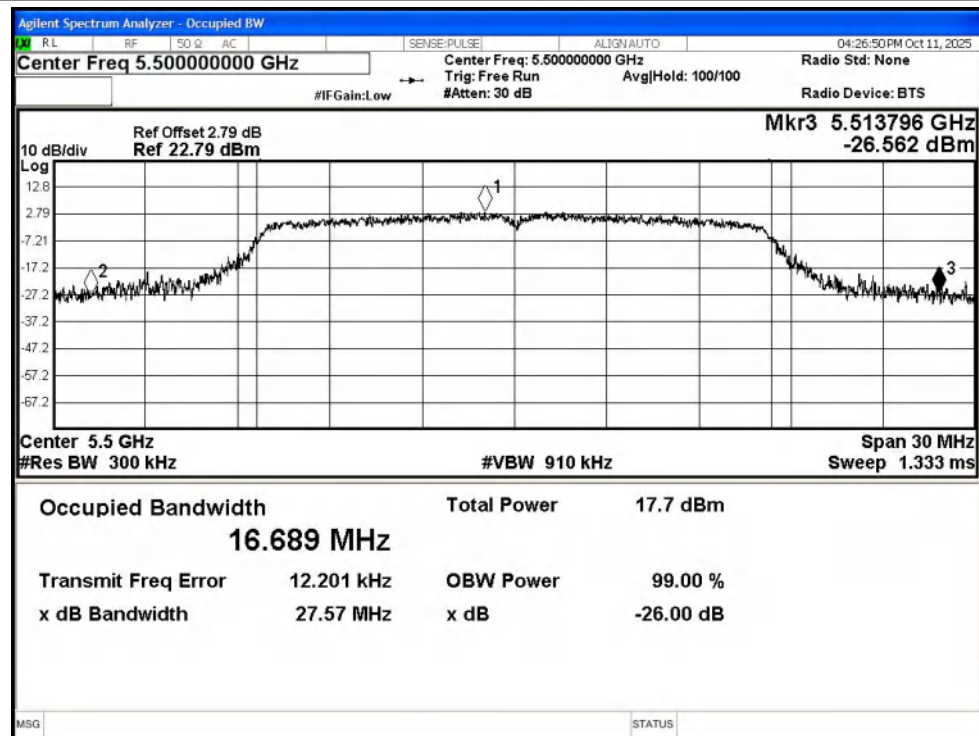
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Zoey Cao
Supervised by:	Eric Wang

1 -26dB Bandwidth

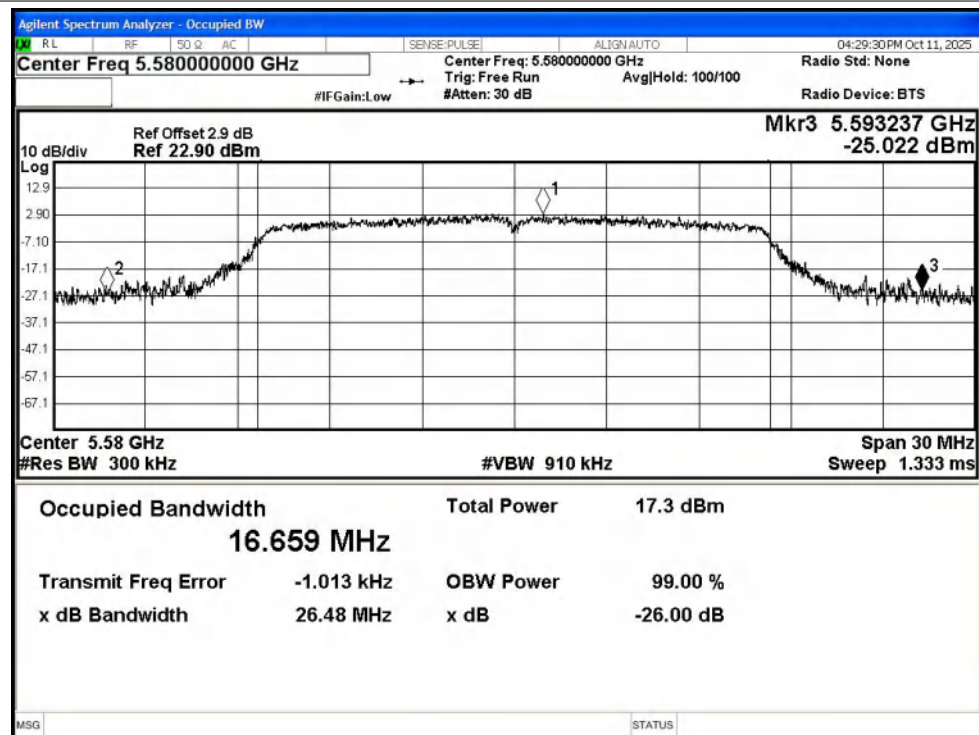
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	27.569	>=0.5	Pass
NVNT	a	5580	Ant1	26.477	>=0.5	Pass
NVNT	a	5700	Ant1	22.94	>=0.5	Pass
NVNT	n20	5500	Ant1	28.271	>=0.5	Pass
NVNT	n20	5580	Ant1	27.159	>=0.5	Pass
NVNT	n20	5700	Ant1	26.05	>=0.5	Pass
NVNT	n40	5510	Ant1	45.832	>=0.5	Pass
NVNT	n40	5550	Ant1	46.36	>=0.5	Pass
NVNT	n40	5670	Ant1	44.843	>=0.5	Pass
NVNT	ac20	5500	Ant1	25.267	>=0.5	Pass
NVNT	ac20	5580	Ant1	26.817	>=0.5	Pass
NVNT	ac20	5700	Ant1	21.196	>=0.5	Pass
NVNT	ac40	5510	Ant1	53.592	>=0.5	Pass
NVNT	ac40	5550	Ant1	54.319	>=0.5	Pass
NVNT	ac40	5670	Ant1	49.088	>=0.5	Pass
NVNT	ac80	5530	Ant1	108.869	>=0.5	Pass
NVNT	ac80	5610	Ant1	97.921	>=0.5	Pass

Test Graphs

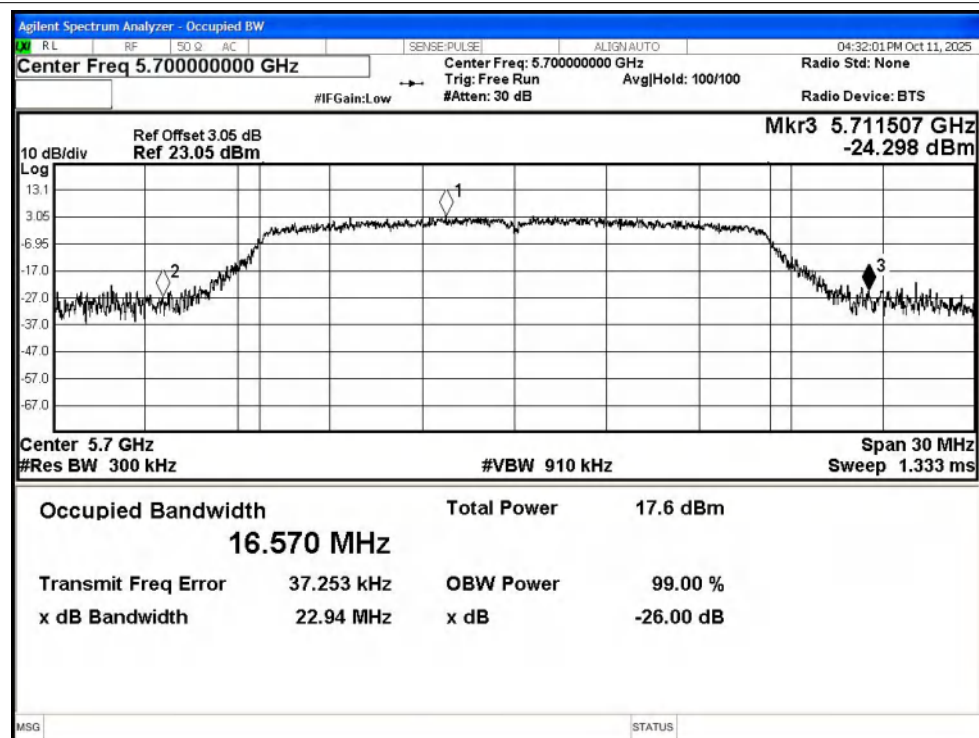
-26dB Bandwidth NVNT a 5500MHz Ant1



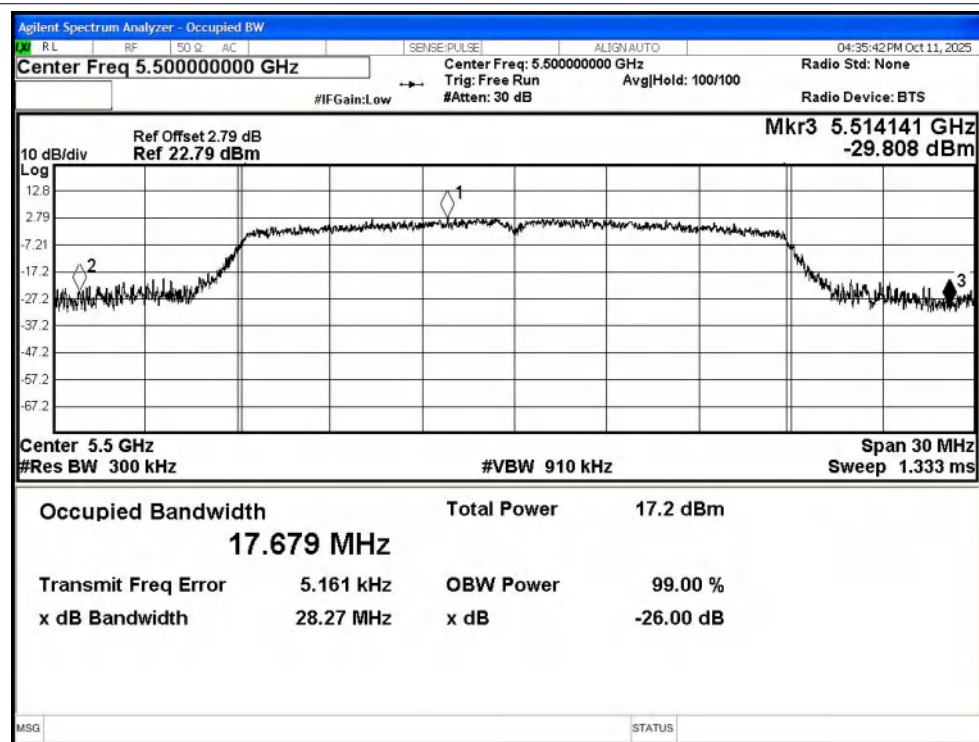
-26dB Bandwidth NVNT a 5580MHz Ant1



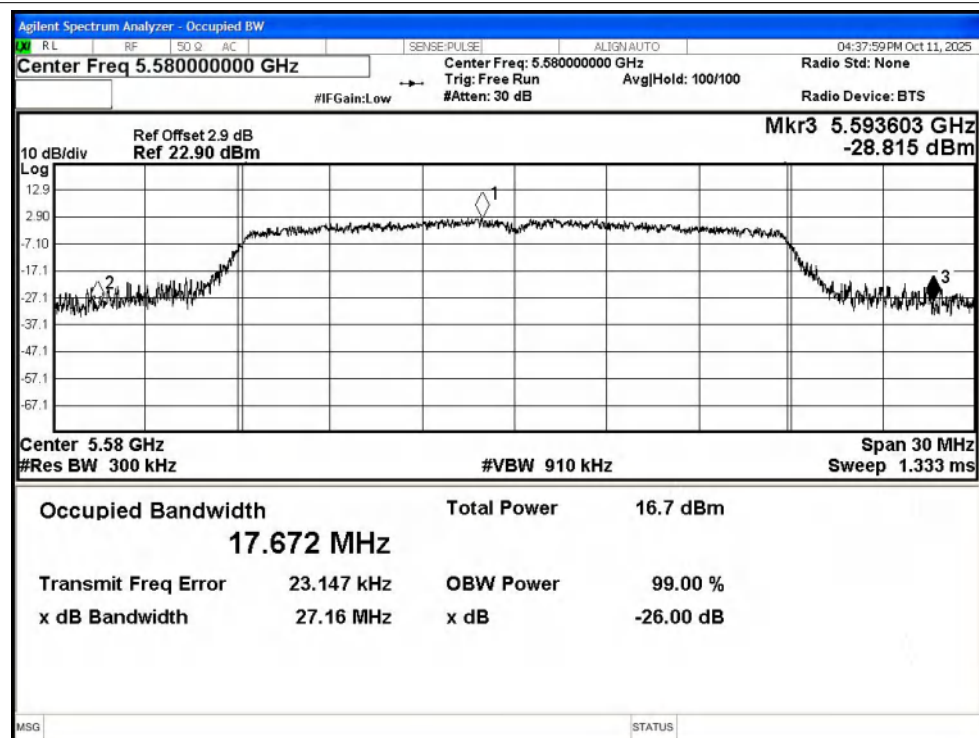
-26dB Bandwidth NVNT a 5700MHz Ant1



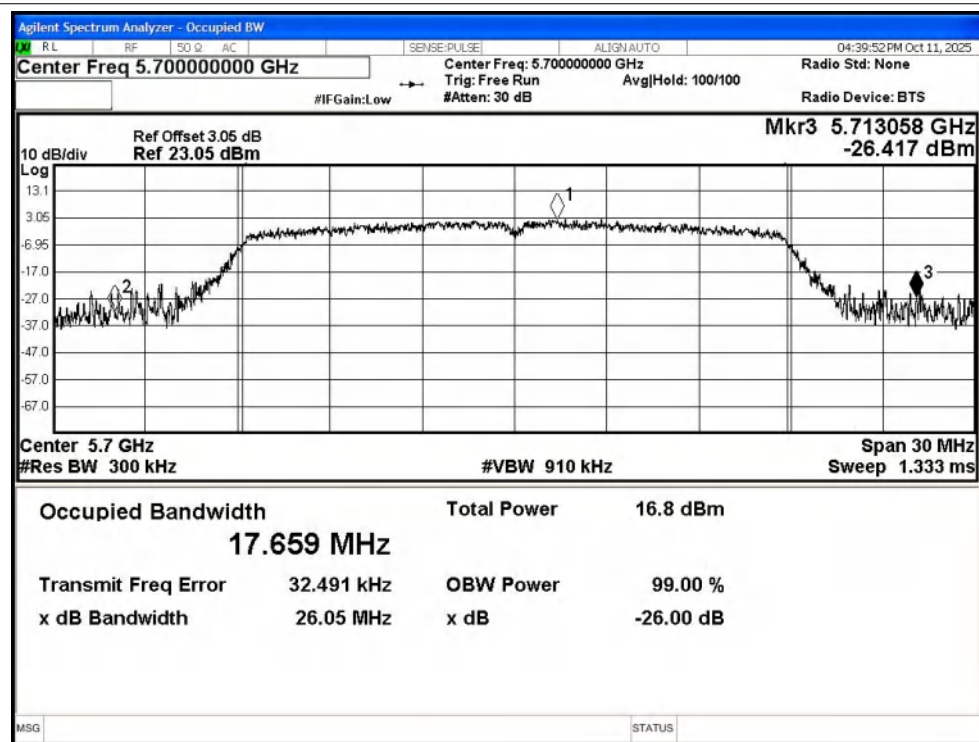
-26dB Bandwidth NVNT n20 5500MHz Ant1



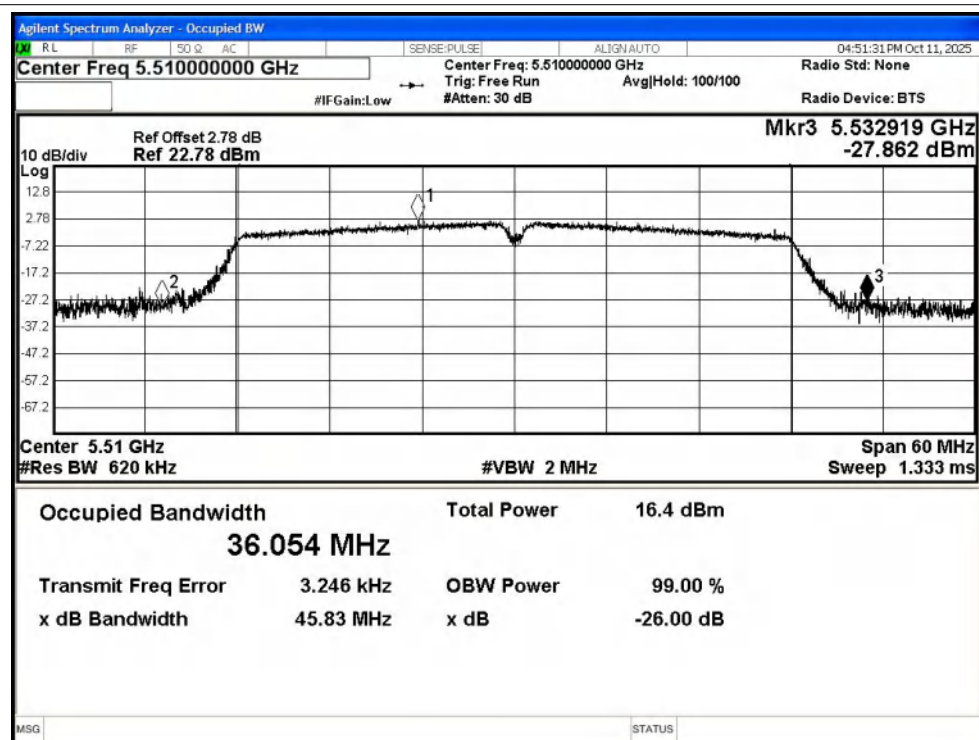
-26dB Bandwidth NVNT n20 5580MHz Ant1



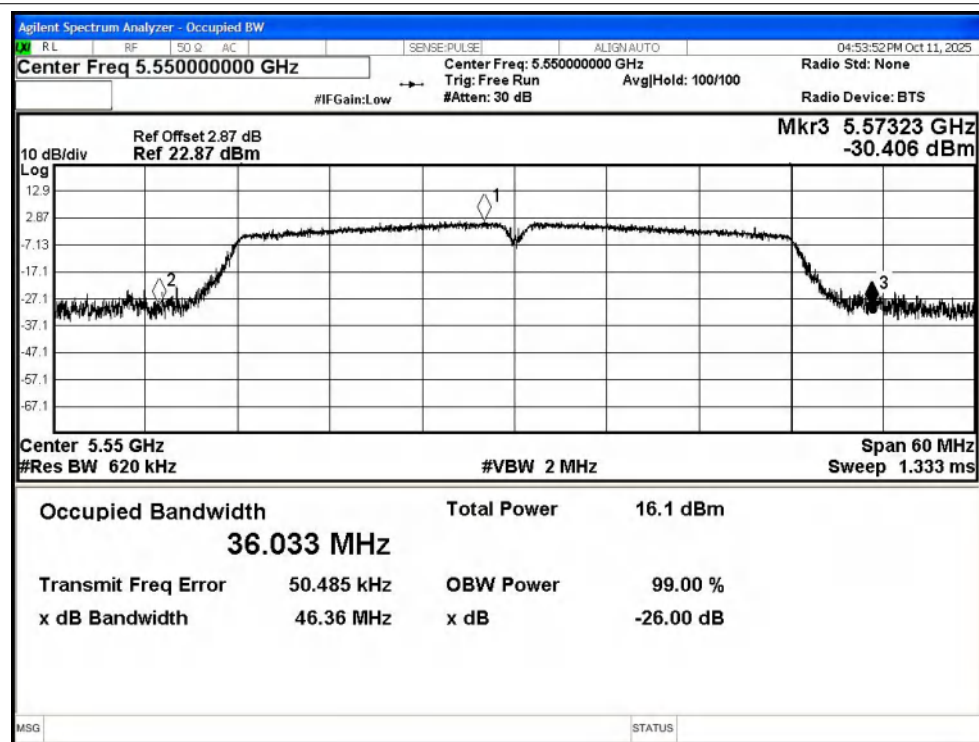
-26dB Bandwidth NVNT n20 5700MHz Ant1



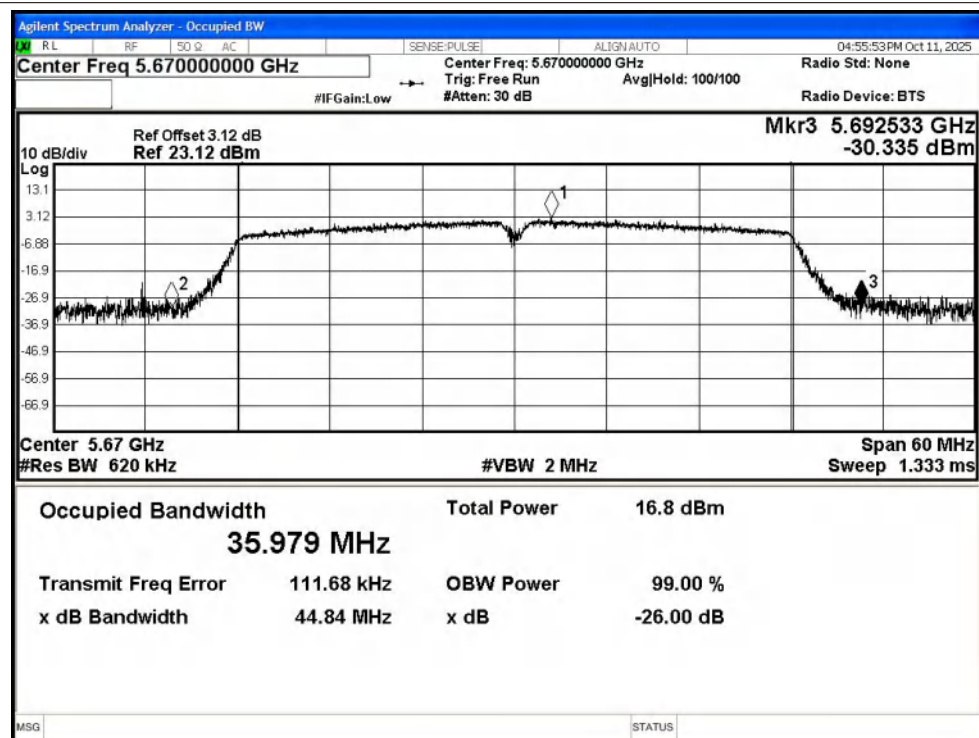
-26dB Bandwidth NVNT n40 5510MHz Ant1



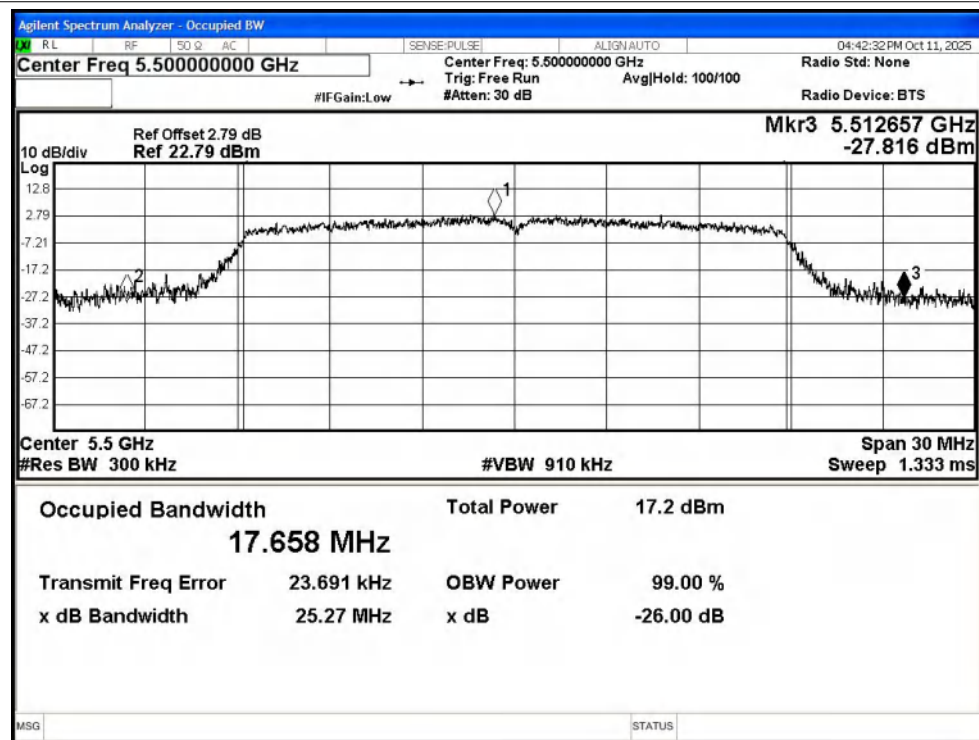
-26dB Bandwidth NVNT n40 5550MHz Ant1



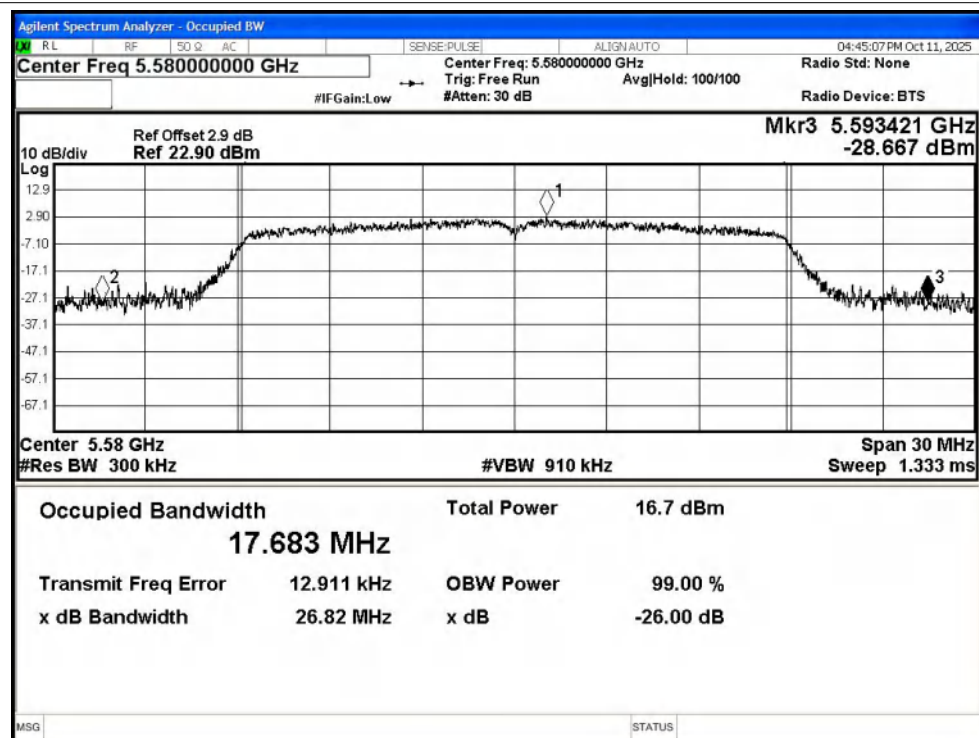
-26dB Bandwidth NVNT n40 5670MHz Ant1



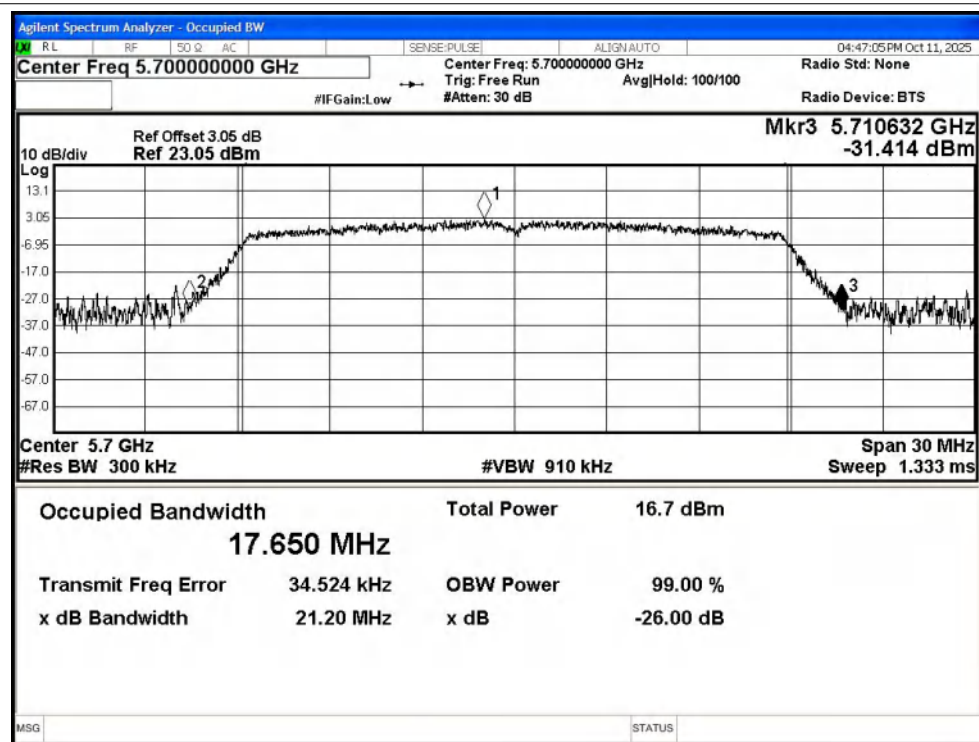
-26dB Bandwidth NVNT ac20 5500MHz Ant1



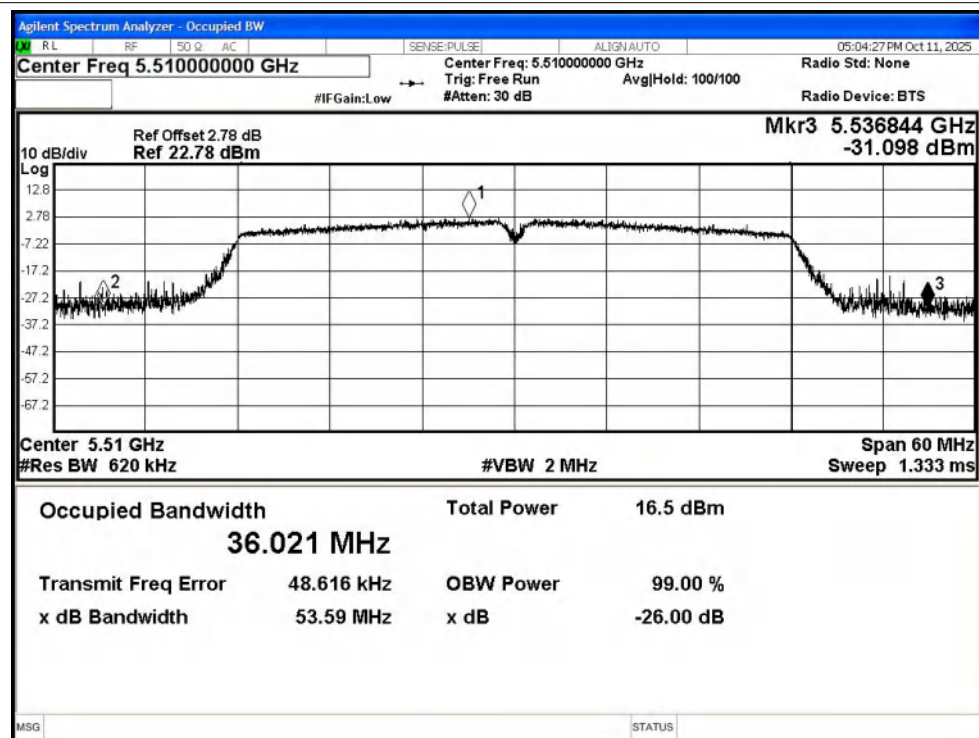
-26dB Bandwidth NVNT ac20 5580MHz Ant1



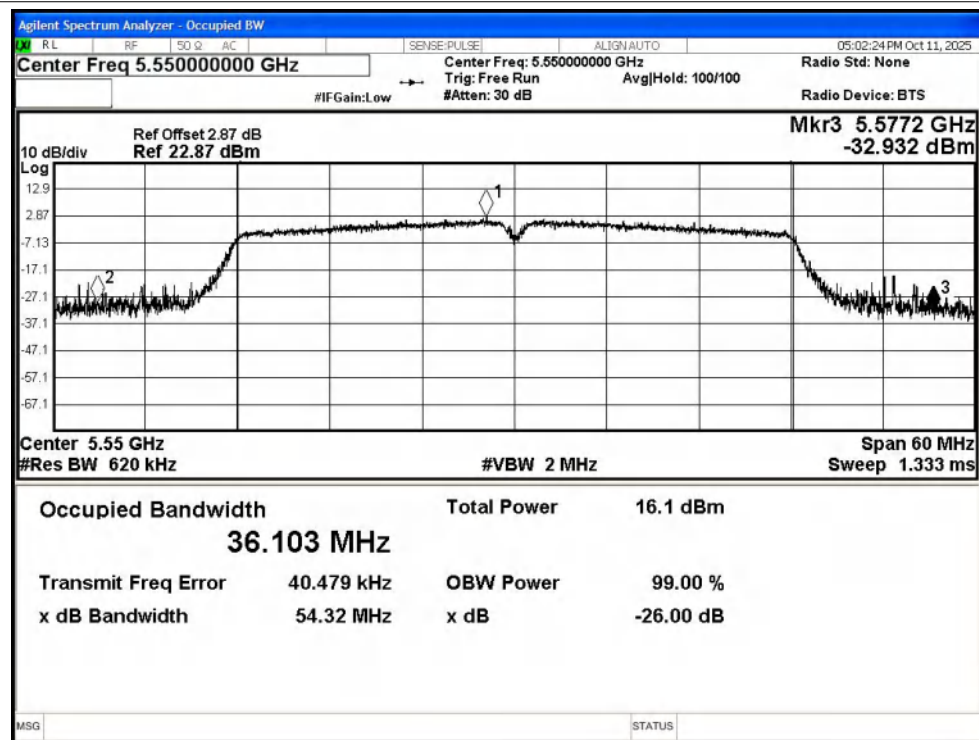
-26dB Bandwidth NVNT ac20 5700MHz Ant1



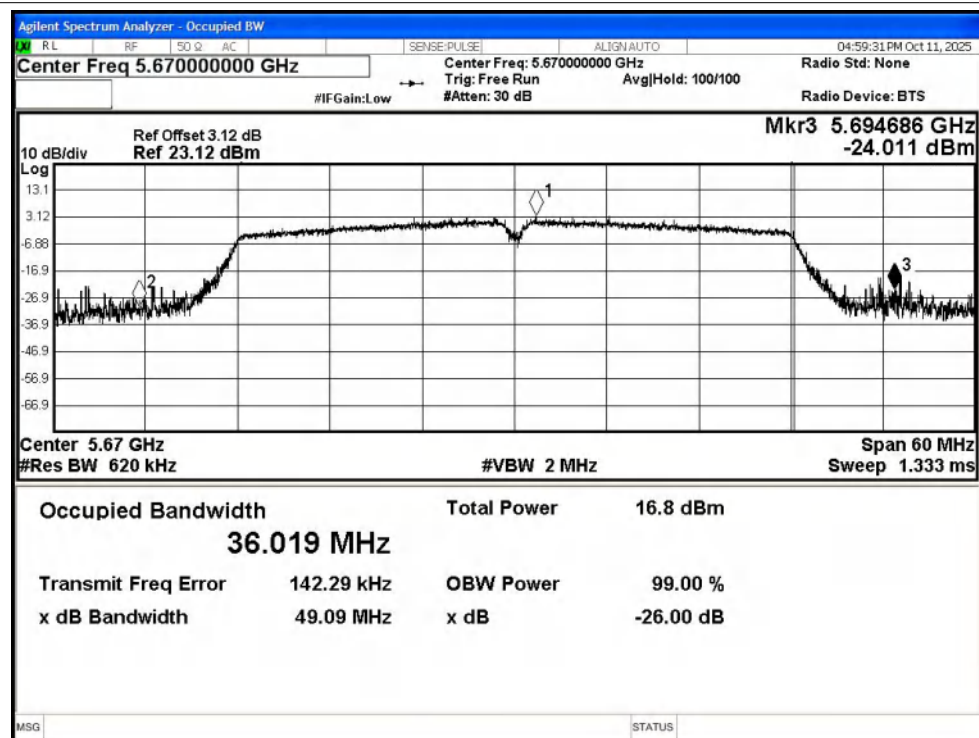
-26dB Bandwidth NVNT ac40 5510MHz Ant1



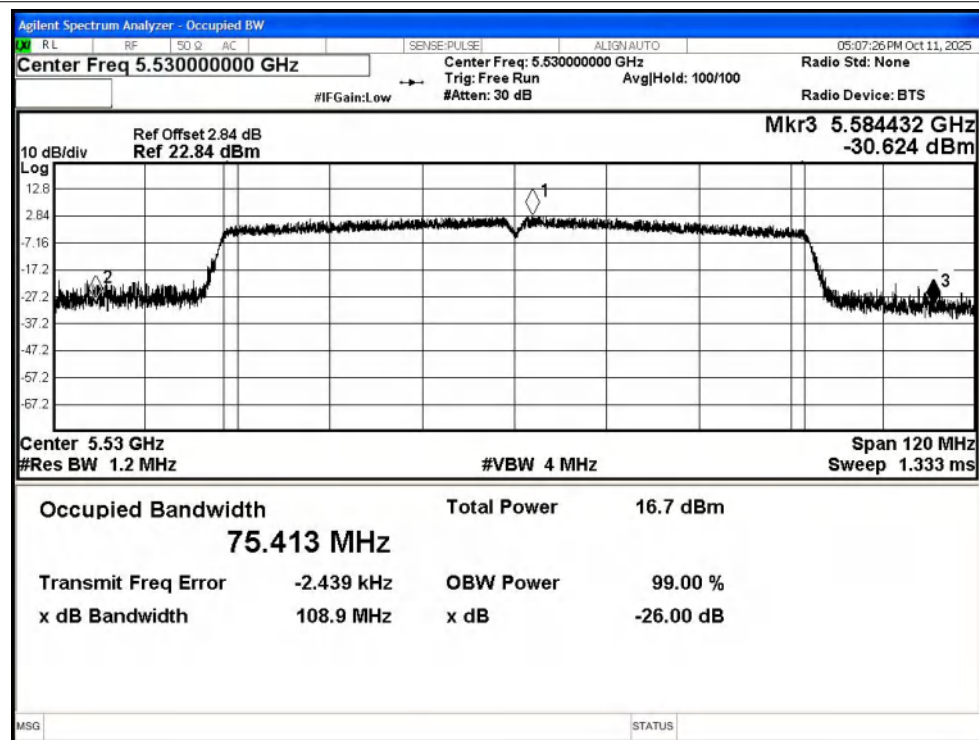
-26dB Bandwidth NVNT ac40 5550MHz Ant1



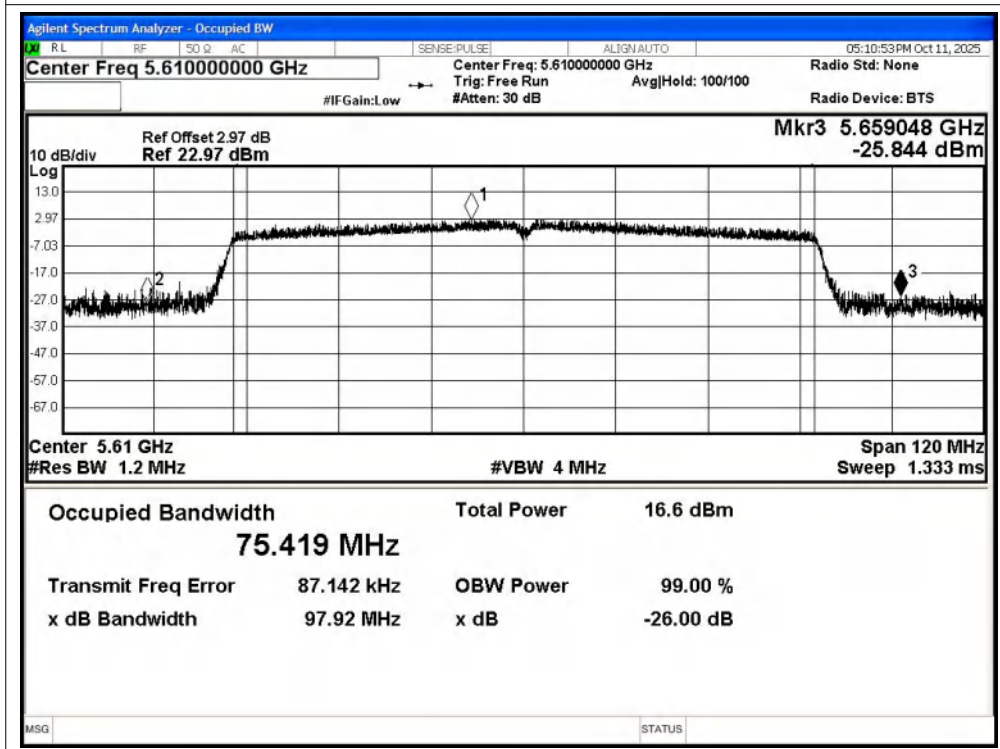
-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1



-26dB Bandwidth NVNT ac80 5610MHz Ant1



2 Maximum Conducted Output Power

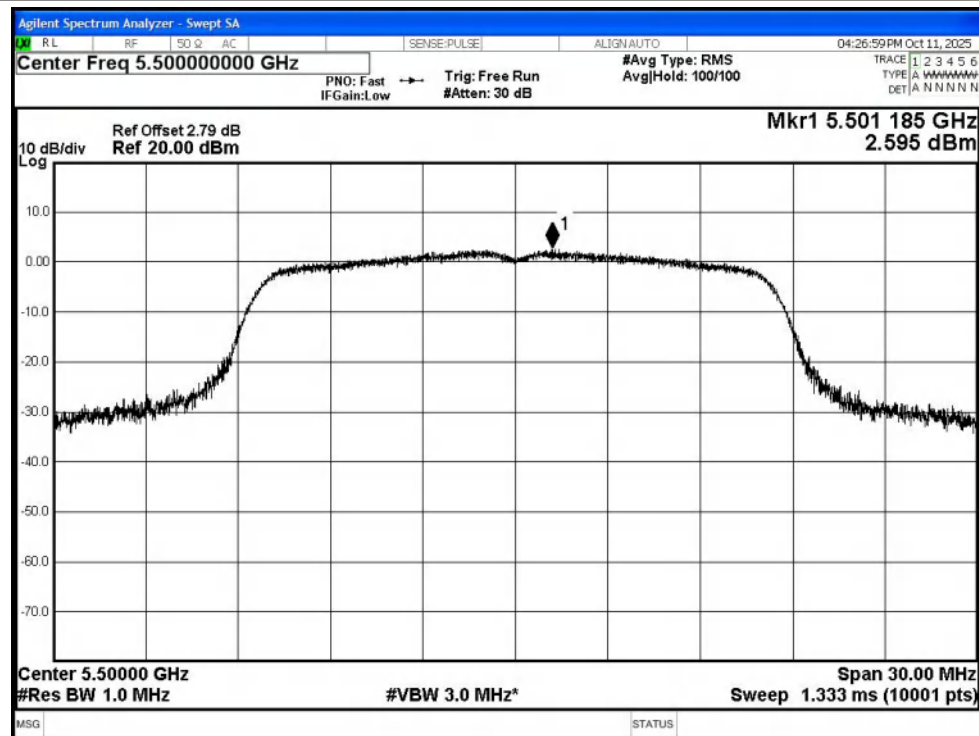
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	12.11	0.11	12.22	24	Pass
NVNT	a	5580	Ant1	12.63	0.11	12.74	24	Pass
NVNT	a	5700	Ant1	11.93	0.11	12.04	24	Pass
NVNT	n20	5500	Ant1	11.52	0.12	11.64	24	Pass
NVNT	n20	5580	Ant1	11.05	0.12	11.17	24	Pass
NVNT	n20	5700	Ant1	11.2	0.12	11.32	24	Pass
NVNT	n40	5510	Ant1	10.43	0.11	10.54	24	Pass
NVNT	n40	5550	Ant1	10.12	0.12	10.24	24	Pass
NVNT	n40	5670	Ant1	10.81	0.12	10.93	24	Pass
NVNT	ac20	5500	Ant1	11.47	0.11	11.58	24	Pass
NVNT	ac20	5580	Ant1	11.08	0.12	11.20	24	Pass
NVNT	ac20	5700	Ant1	11.09	0.12	11.21	24	Pass
NVNT	ac40	5510	Ant1	10.39	0.12	10.51	24	Pass
NVNT	ac40	5550	Ant1	10.09	0.12	10.21	24	Pass
NVNT	ac40	5670	Ant1	10.88	0.12	11.00	24	Pass
NVNT	ac80	5530	Ant1	9.89	0.25	10.14	24	Pass
NVNT	ac80	5610	Ant1	9.75	0.24	9.99	24	Pass

3 Maximum Power Spectral Density Level

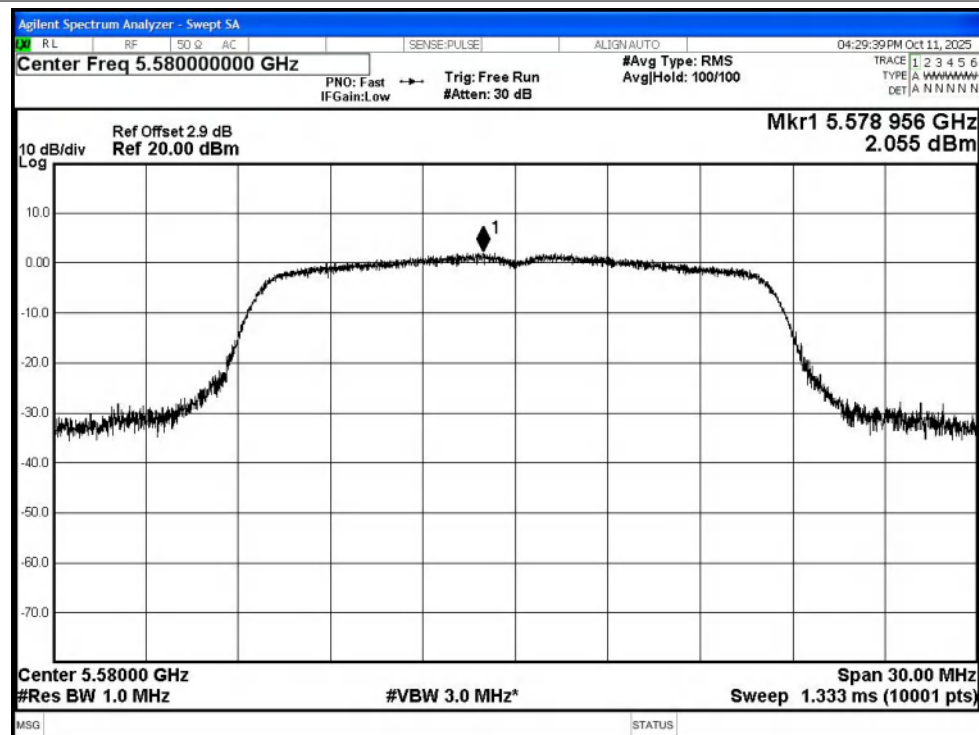
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	2.6	0.11	2.71	11	Pass
NVNT	a	5580	Ant1	2.06	0.11	2.17	11	Pass
NVNT	a	5700	Ant1	2.47	0.11	2.58	11	Pass
NVNT	n20	5500	Ant1	1.54	0.12	1.66	11	Pass
NVNT	n20	5580	Ant1	1.18	0.12	1.3	11	Pass
NVNT	n20	5700	Ant1	1.41	0.12	1.53	11	Pass
NVNT	n40	5510	Ant1	-2.15	0.11	-2.04	11	Pass
NVNT	n40	5550	Ant1	-2.61	0.12	-2.49	11	Pass
NVNT	n40	5670	Ant1	-1.8	0.12	-1.68	11	Pass
NVNT	ac20	5500	Ant1	1.74	0.11	1.85	11	Pass
NVNT	ac20	5580	Ant1	1.17	0.12	1.29	11	Pass
NVNT	ac20	5700	Ant1	1.18	0.12	1.3	11	Pass
NVNT	ac40	5510	Ant1	-2.36	0.12	-2.24	11	Pass
NVNT	ac40	5550	Ant1	-2.46	0.12	-2.34	11	Pass
NVNT	ac40	5670	Ant1	-1.92	0.12	-1.8	11	Pass
NVNT	ac80	5530	Ant1	-6.14	0.25	-5.89	11	Pass
NVNT	ac80	5610	Ant1	-5.45	0.24	-5.21	11	Pass

Test Graphs

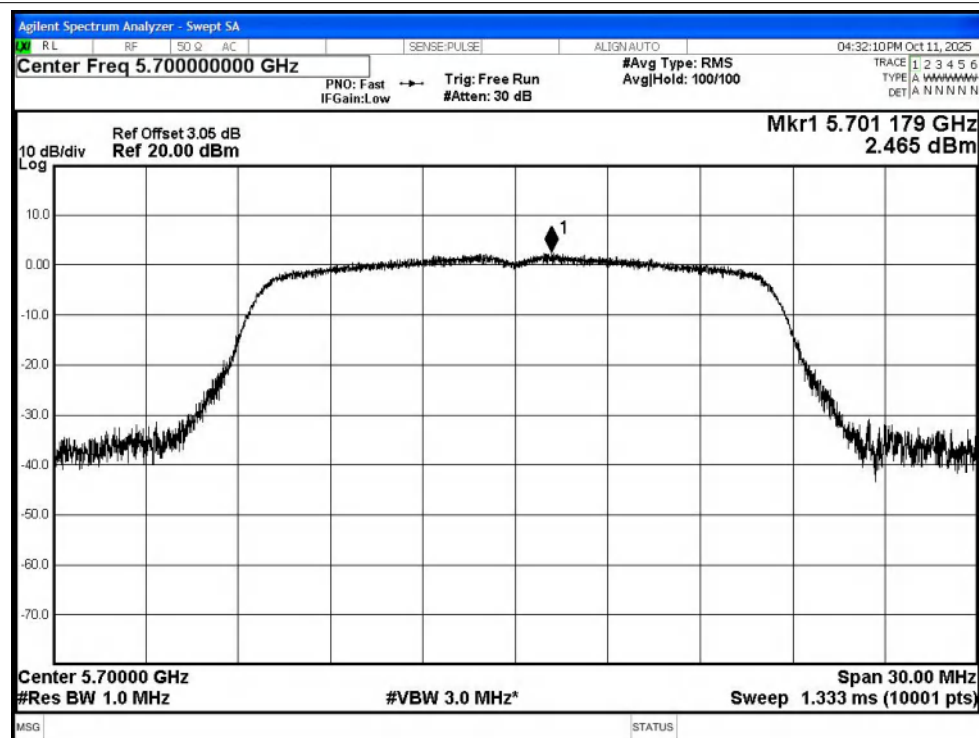
PSD NVNT a 5500MHz Ant1



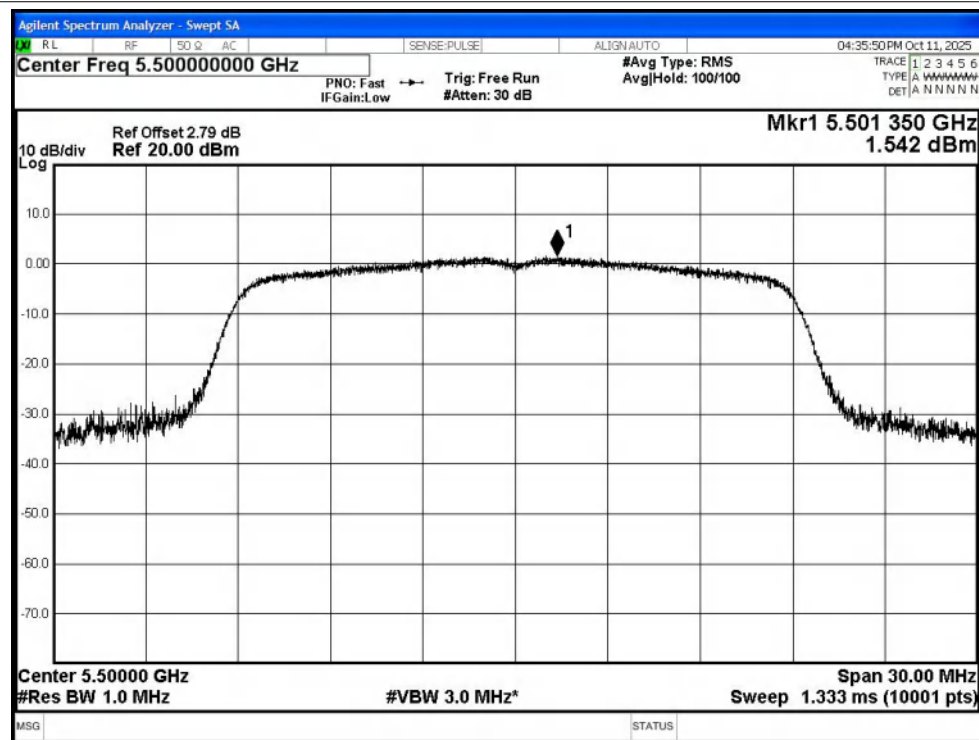
PSD NVNT a 5580MHz Ant1



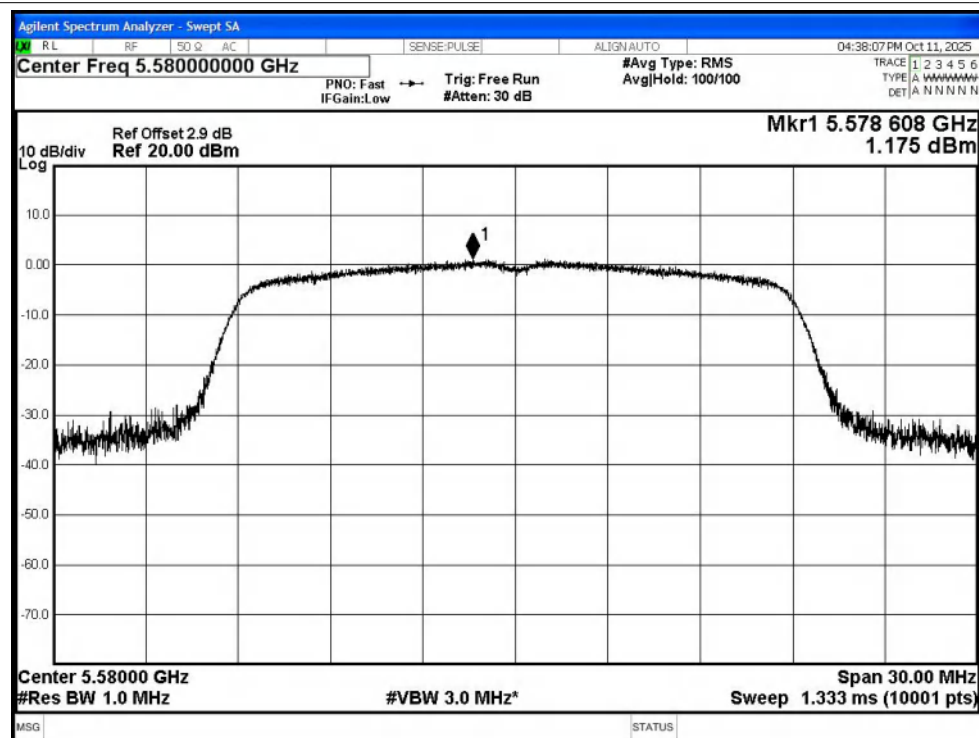
PSD NVNT a 5700MHz Ant1



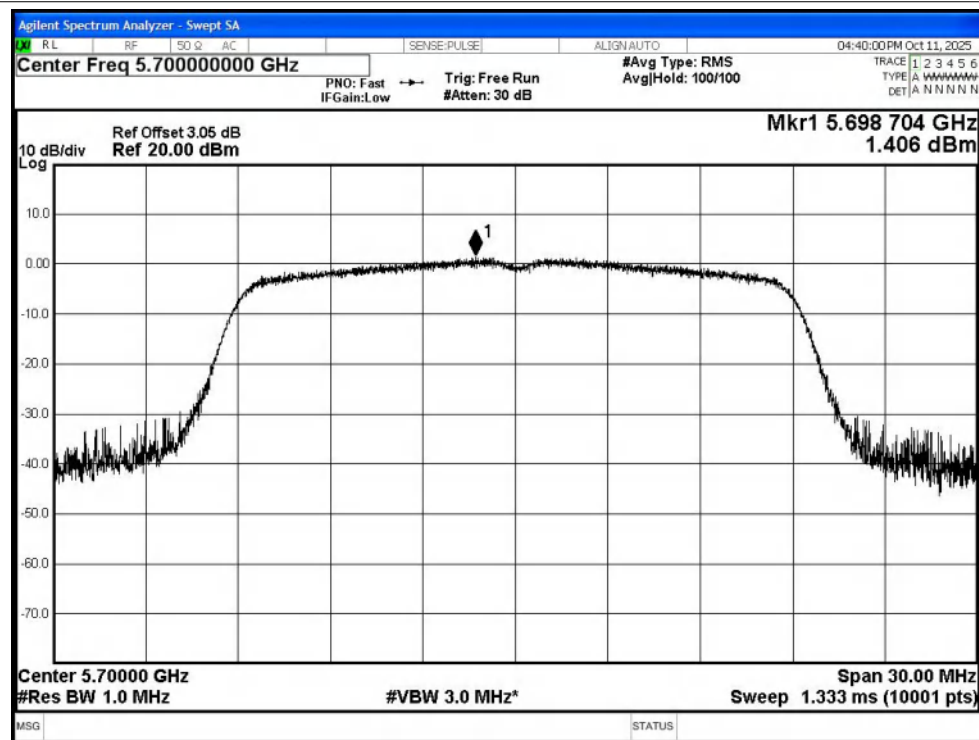
PSD NVNT n20 5500MHz Ant1



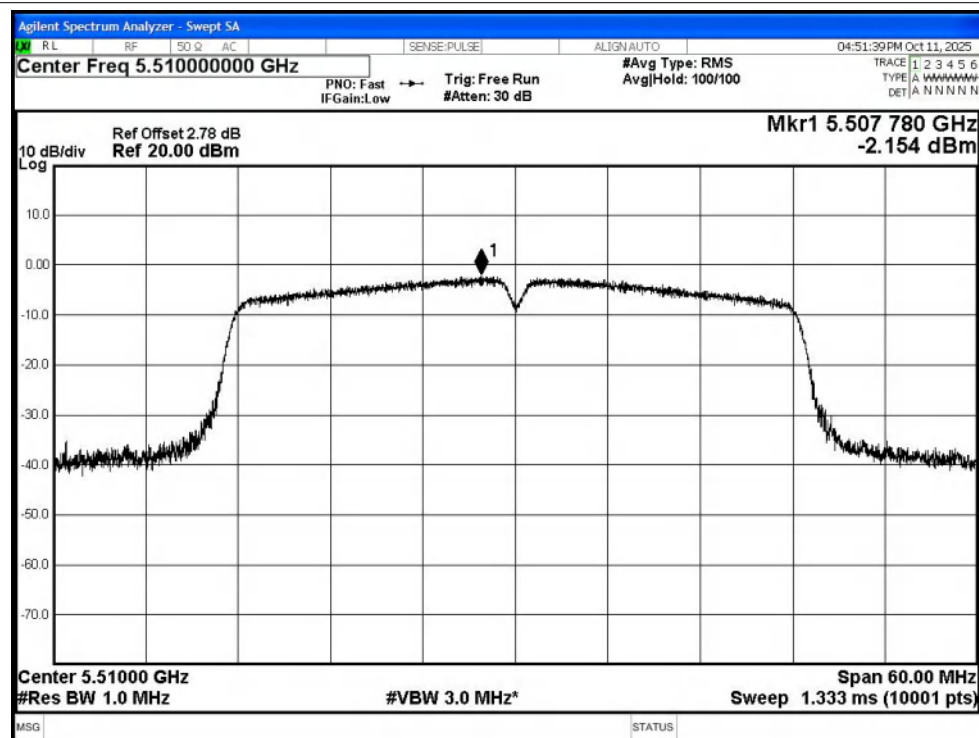
PSD NVNT n20 5580MHz Ant1



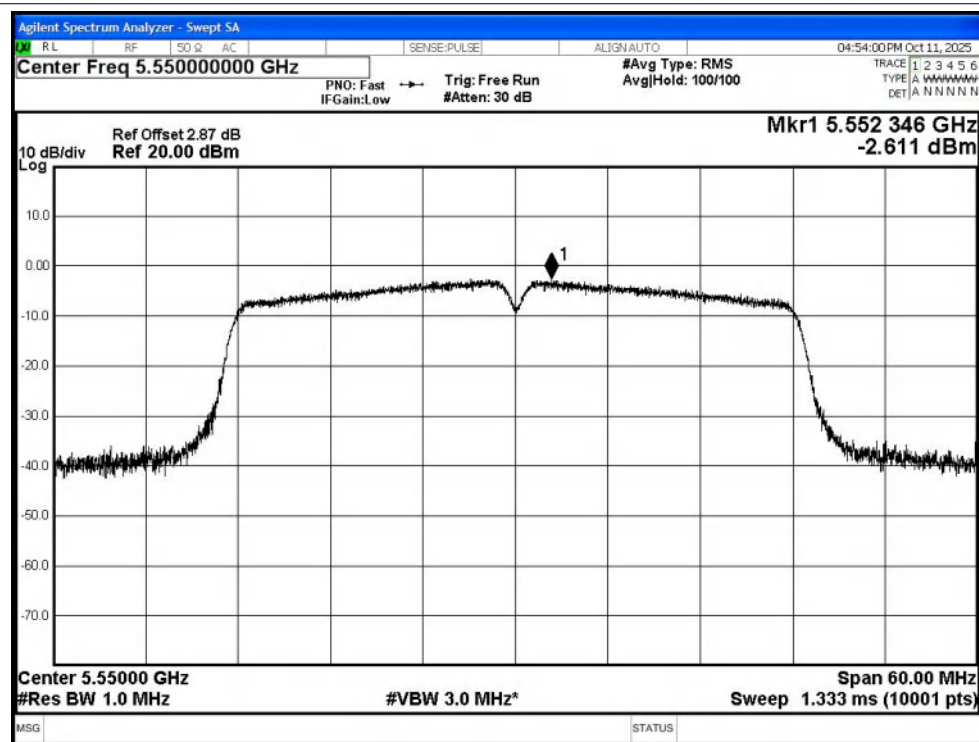
PSD NVNT n20 5700MHz Ant1



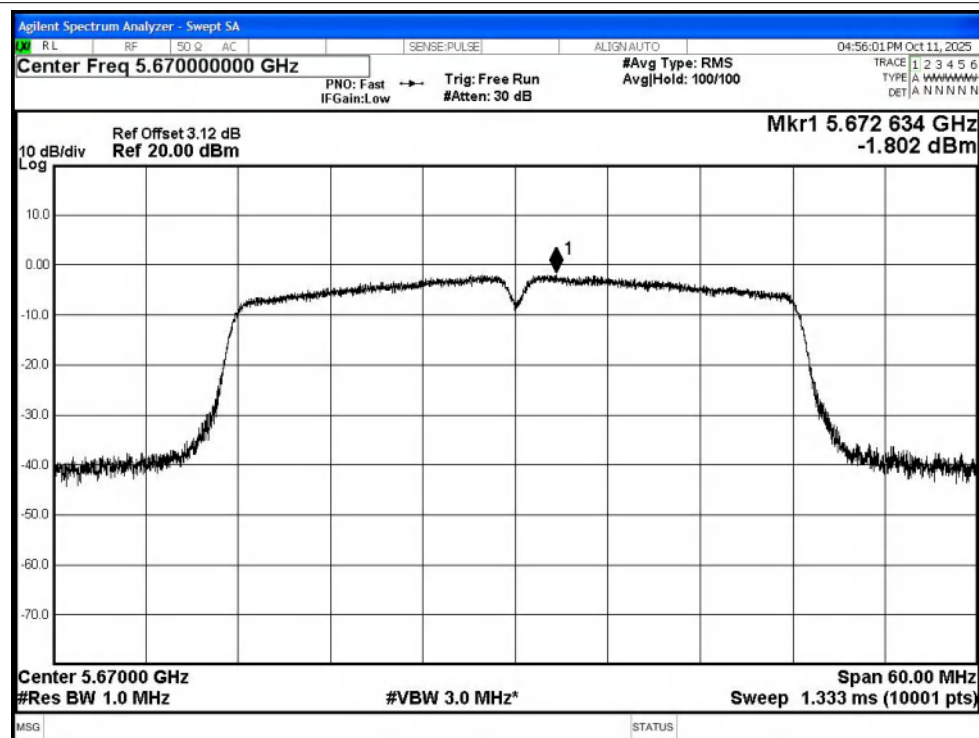
PSD NVNT n40 5510MHz Ant1



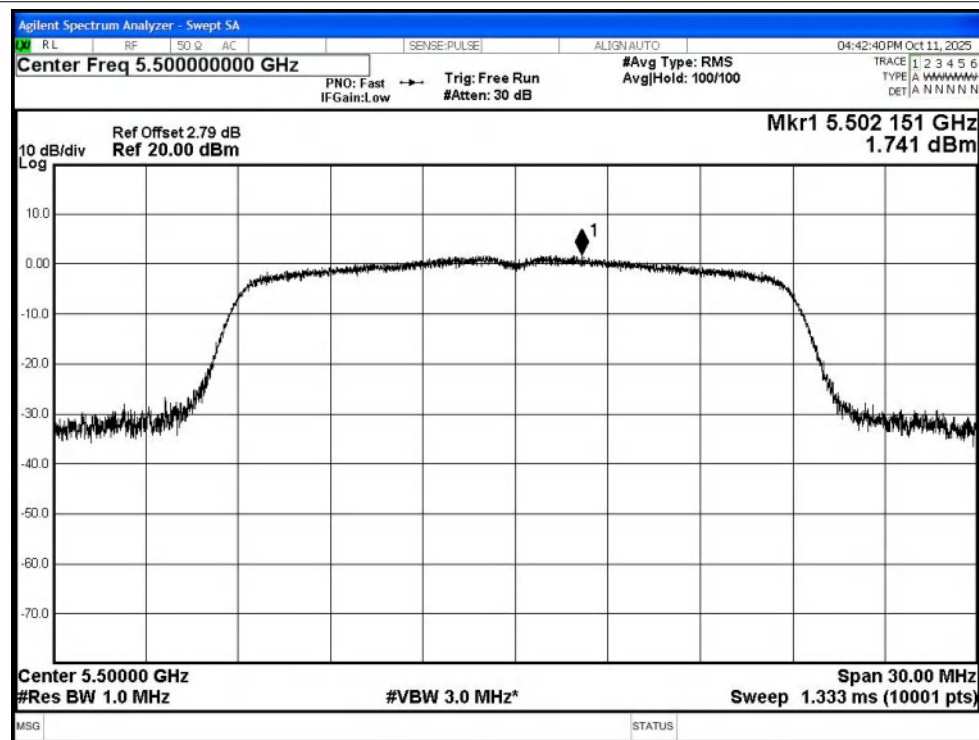
PSD NVNT n40 5550MHz Ant1



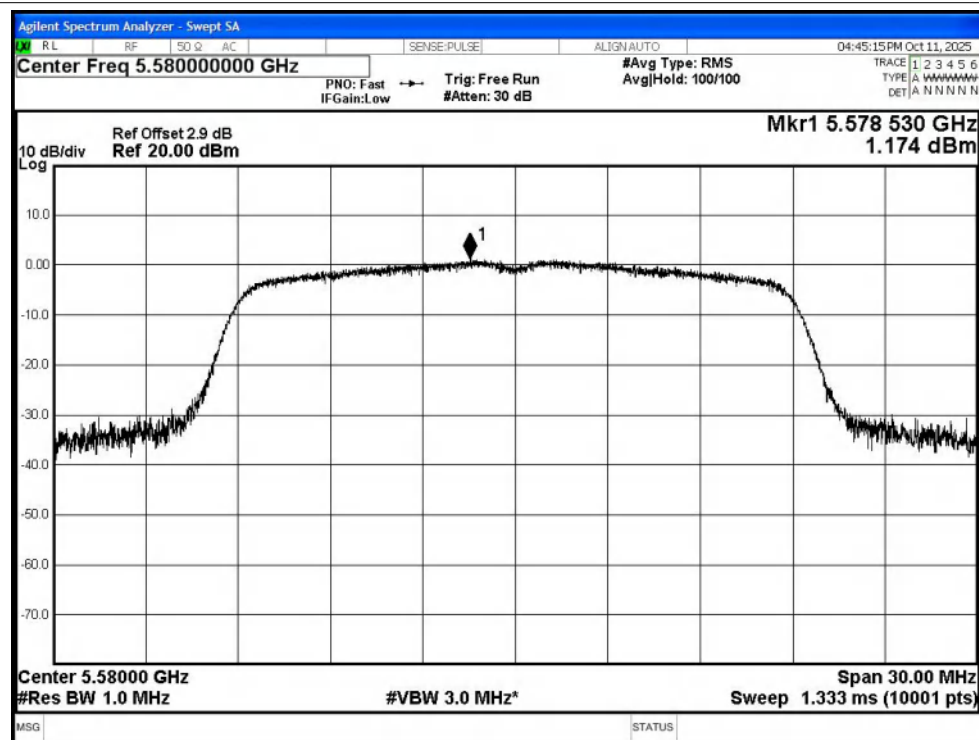
PSD NVNT n40 5670MHz Ant1



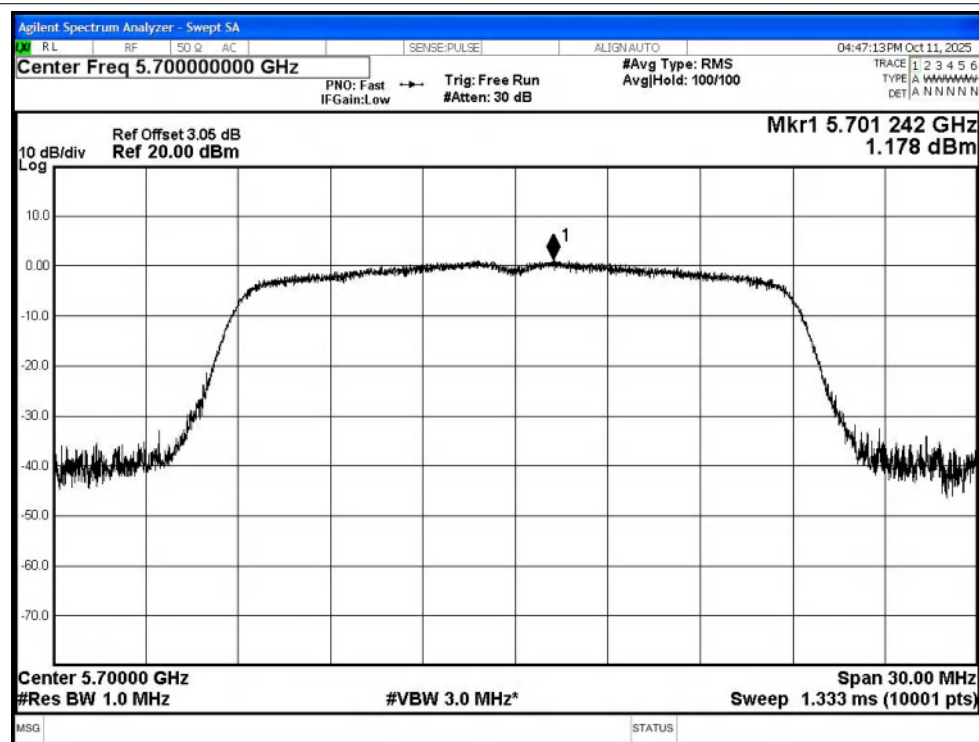
PSD NVNT ac20 5500MHz Ant1



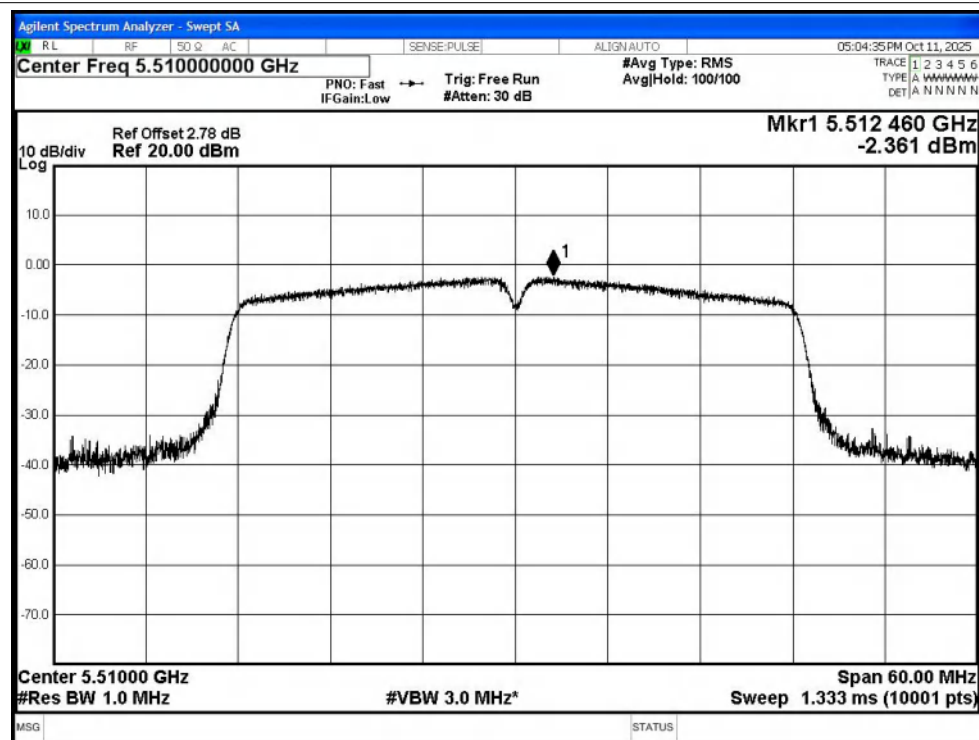
PSD NVNT ac20 5580MHz Ant1



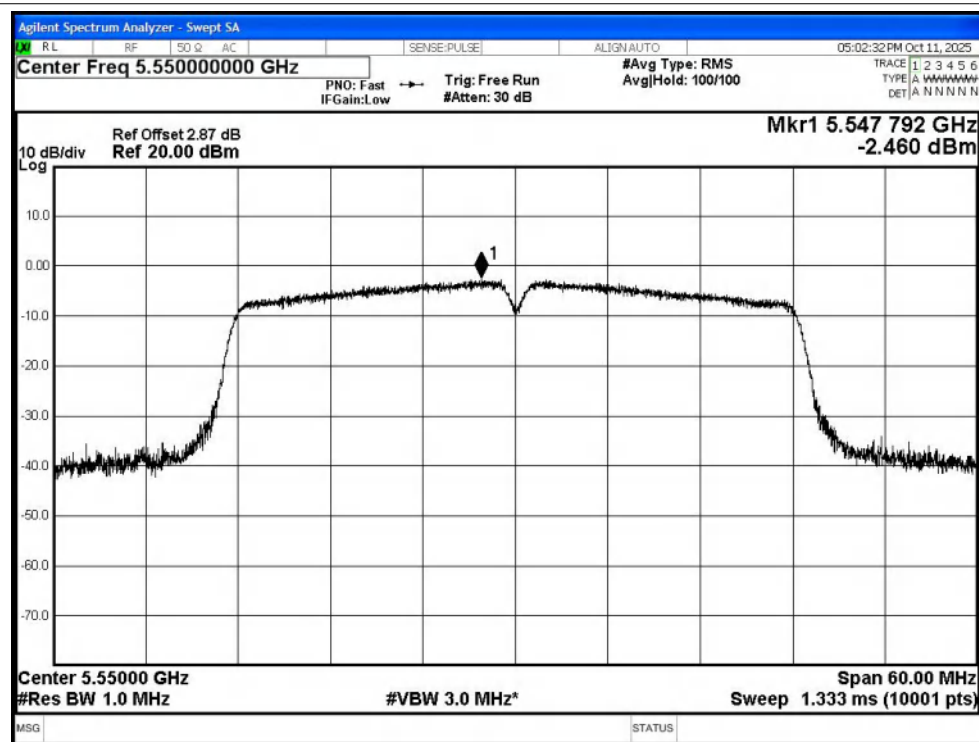
PSD NVNT ac20 5700MHz Ant1



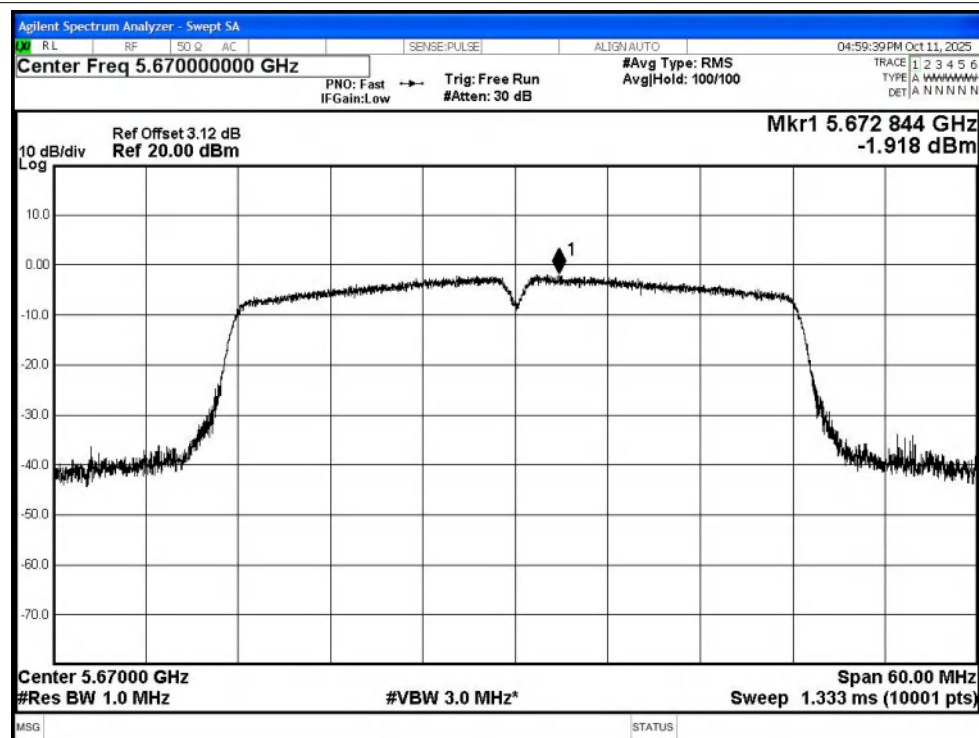
PSD NVNT ac40 5510MHz Ant1



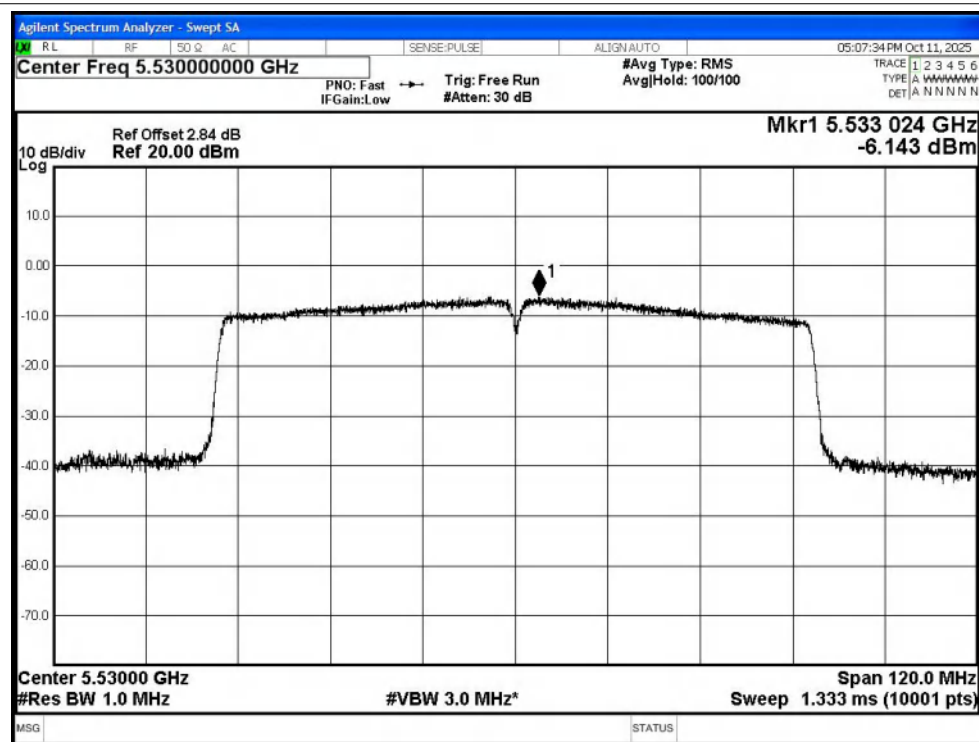
PSD NVNT ac40 5550MHz Ant1

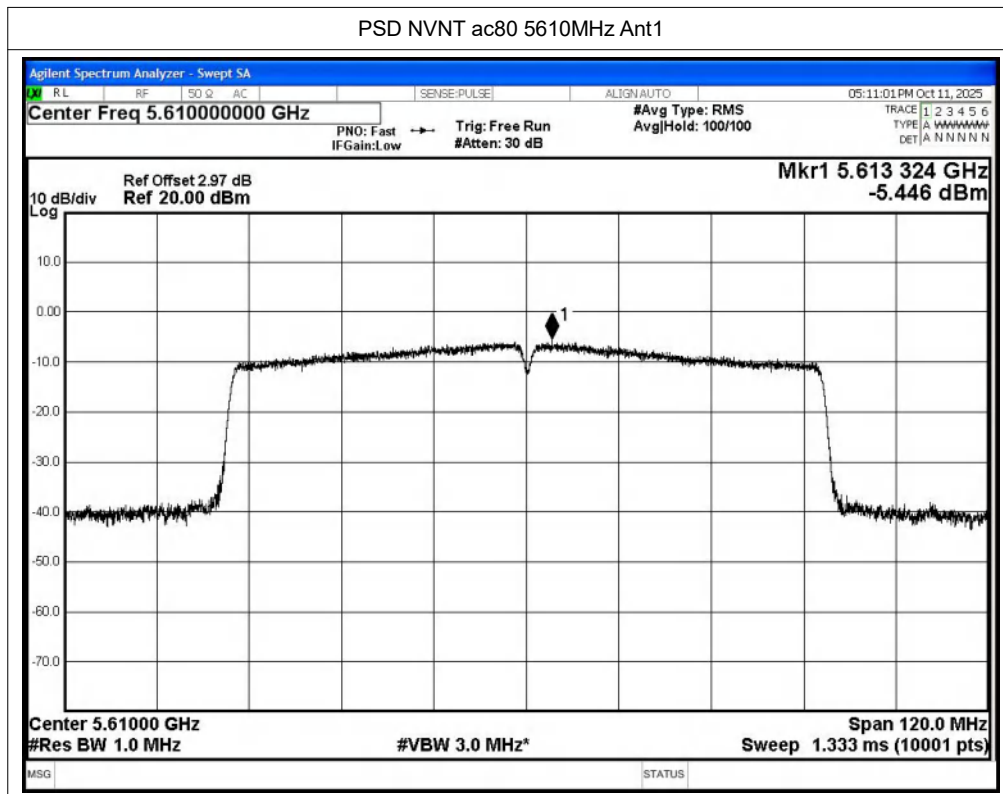


PSD NVNT ac40 5670MHz Ant1



PSD NVNT ac80 5530MHz Ant1





4 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	a	5500	Ant1	5460	-48.56	3.95	-	50.62	Peak	68.2	Pass
NVNT	a	5500	Ant1	5460	-56.63	3.95	0.11	42.66	Average	54	Pass
NVNT	a	5500	Ant1	5467.2	-44.4	3.95	-	54.78	Peak	68.2	Pass
NVNT	a	5500	Ant1	5469.8	-54.97	3.95	0.11	44.32	Average	54	Pass
NVNT	a	5500	Ant1	5470	-45.41	3.95	-	53.77	Peak	68.2	Pass
NVNT	a	5500	Ant1	5470	-55.7	3.95	0.11	43.59	Average	54	Pass
NVNT	a	5700	Ant1	5725	-46.3	3.95	-	52.88	Peak	68.2	Pass
NVNT	a	5700	Ant1	5725	-55.09	3.95	0.11	44.20	Average	54	Pass
NVNT	a	5700	Ant1	5730	-43.38	3.95	-	55.80	Peak	68.2	Pass
NVNT	a	5700	Ant1	5726	-55.02	3.95	0.11	44.27	Average	54	Pass
NVNT	a	5700	Ant1	5735	-47.89	3.95	-	51.29	Peak	68.2	Pass
NVNT	a	5700	Ant1	5735	-56.07	3.95	0.11	43.22	Average	54	Pass
NVNT	n20	5500	Ant1	5460	-48.95	3.95	-	50.23	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5460	-57.24	3.95	0.12	42.06	Average	54	Pass
NVNT	n20	5500	Ant1	5463	-45.16	3.95	-	54.02	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5468.8	-55.6	3.95	0.12	43.70	Average	54	Pass
NVNT	n20	5500	Ant1	5470	-47.51	3.95	-	51.67	Peak	68.2	Pass
NVNT	n20	5500	Ant1	5470	-56.03	3.95	0.12	43.27	Average	54	Pass
NVNT	n20	5700	Ant1	5725	-47.05	3.95	-	52.13	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5725	-54.87	3.95	0.12	44.43	Average	54	Pass
NVNT	n20	5700	Ant1	5725.2	-44.08	3.95	-	55.10	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5726	-54.54	3.95	0.12	44.76	Average	54	Pass
NVNT	n20	5700	Ant1	5735	-48.52	3.95	-	50.66	Peak	68.2	Pass
NVNT	n20	5700	Ant1	5735	-56.53	3.95	0.12	42.77	Average	54	Pass
NVNT	n40	5510	Ant1	5460	-47.89	3.95	-	51.29	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5460	-56.71	3.95	0.11	42.58	Average	54	Pass
NVNT	n40	5510	Ant1	5469.2	-43.24	3.95	-	55.94	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5469.8	-54.57	3.95	0.11	44.72	Average	54	Pass
NVNT	n40	5510	Ant1	5470	-46.66	3.95	-	52.52	Peak	68.2	Pass
NVNT	n40	5510	Ant1	5470	-54.78	3.95	0.11	44.51	Average	54	Pass
NVNT	n40	5670	Ant1	5725	-48.88	3.95	-	50.30	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5725	-56.59	3.95	0.12	42.71	Average	54	Pass
NVNT	n40	5670	Ant1	5726.4	-46.84	3.95	-	52.34	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5726.8	-56.42	3.95	0.12	42.88	Average	54	Pass
NVNT	n40	5670	Ant1	5735	-48.61	3.95	-	50.57	Peak	68.2	Pass
NVNT	n40	5670	Ant1	5735	-56.89	3.95	0.12	42.41	Average	54	Pass
NVNT	ac20	5500	Ant1	5460	-48.05	3.95	-	51.13	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5460	-57.27	3.95	0.11	42.02	Average	54	Pass
NVNT	ac20	5500	Ant1	5463	-46.44	3.95	-	52.74	Peak	68.2	Pass

NVNT	ac20	5500	Ant1	5469.8	-55.21	3.95	0.11	44.08	Average	54	Pass
NVNT	ac20	5500	Ant1	5470	-48.13	3.95	-	51.05	Peak	68.2	Pass
NVNT	ac20	5500	Ant1	5470	-55.4	3.95	0.11	43.89	Average	54	Pass
NVNT	ac20	5700	Ant1	5725	-46.64	3.95	-	52.54	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725	-54.98	3.95	0.12	44.32	Average	54	Pass
NVNT	ac20	5700	Ant1	5725.4	-44.75	3.95	-	54.43	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5725.2	-54.67	3.95	0.12	44.63	Average	54	Pass
NVNT	ac20	5700	Ant1	5735	-46.24	3.95	-	52.94	Peak	68.2	Pass
NVNT	ac20	5700	Ant1	5735	-55.88	3.95	0.12	43.42	Average	54	Pass
NVNT	ac40	5510	Ant1	5460	-47.69	3.95	-	51.49	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5460	-55.73	3.95	0.12	43.57	Average	54	Pass
NVNT	ac40	5510	Ant1	5467	-43.78	3.95	-	55.40	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5469.8	-53.75	3.95	0.12	45.55	Average	54	Pass
NVNT	ac40	5510	Ant1	5470	-46.19	3.95	-	52.99	Peak	68.2	Pass
NVNT	ac40	5510	Ant1	5470	-53.93	3.95	0.12	45.37	Average	54	Pass
NVNT	ac40	5670	Ant1	5725	-48.64	3.95	-	50.54	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725	-56.75	3.95	0.12	42.55	Average	54	Pass
NVNT	ac40	5670	Ant1	5726.8	-44.33	3.95	-	54.85	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5725.4	-56.16	3.95	0.12	43.14	Average	54	Pass
NVNT	ac40	5670	Ant1	5735	-49.05	3.95	-	50.13	Peak	68.2	Pass
NVNT	ac40	5670	Ant1	5735	-56.78	3.95	0.12	42.52	Average	54	Pass
NVNT	ac80	5530	Ant1	5460	-44.12	3.95	-	55.06	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5460	-51.76	3.95	0.25	47.67	Average	54	Pass
NVNT	ac80	5530	Ant1	5469.4	-36.78	3.95	-	62.40	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5469.8	-49.49	3.95	0.25	49.94	Average	54	Pass
NVNT	ac80	5530	Ant1	5470	-39.99	3.95	-	59.19	Peak	68.2	Pass
NVNT	ac80	5530	Ant1	5470	-50.33	3.95	0.25	49.10	Average	54	Pass
NVNT	ac80	5610	Ant1	5725	-50.06	3.95	-	49.12	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5725	-57.31	3.95	0.24	42.11	Average	54	Pass
NVNT	ac80	5610	Ant1	5725.775	-45.02	3.95	-	54.16	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5727.21	-56.73	3.95	0.24	42.69	Average	54	Pass
NVNT	ac80	5610	Ant1	5735	-49.39	3.95	-	49.79	Peak	68.2	Pass
NVNT	ac80	5610	Ant1	5735	-57.29	3.95	0.24	42.13	Average	54	Pass

Restrict Band NVNT at a 5700MHz Ant1 Peak

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Q AC SENSE-PULSE ALIGN-AUTO 04:34:25 PM Oct 11, 2025

Center Freq 5.780000000 GHz

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

Ref Offset 3.05 dB Mkr1 5.701 6 GHz
Ref 20.00 dBm 3.963 dBm

10 dB/div Log

Start 5.6800 GHz Stop 5.8800 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz Sweep 1.000 ms (1001 pts)

MKR	MODE	FREQ	POWER
1	N	f	5.701 6 GHz 3.963 dBm
2	N	f	5.725 0 GHz -46.302 dBm
3	N	f	5.735 0 GHz -47.889 dBm
4	N	f	5.730 0 GHz -43.378 dBm

The screenshot shows an Agilent Spectrum Analyzer interface. The title bar reads "Restrict Band NVNT a 5700MHz Ant1 Average". The main display area shows a spectrum plot with a peak labeled "Mkr1 5.702 2 GHz -3.748 dBm". The y-axis is labeled "Log" and ranges from -70.0 to 10.0 dB/div. The x-axis is labeled "Start 5.6800 GHz" and "Stop 5.8800 GHz". The resolution bandwidth is "#Res BW 1.0 MHz" and the sweep time is "Sweep 1.000 ms (1001 pts)". A table at the bottom lists measurement points:

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.702 2 GHz	-3.748 dBm			
2	N		f	5.725 0 GHz	-55.085 dBm			
3	N		f	5.735 0 GHz	-56.069 dBm			
4	N		f	5.726 0 GHz	-55.024 dBm			

[illegible][illegible]

[illegible]

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE-PULSE ALIGN AUTO 04:41:25 PM Oct 11, 2025

Center Freq 5.780000000 GHz

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

Ref Offset 3.05 dB Ref 20.00 dBm Mkr1 5.7018 GHz -4.550 dBm

Start 5.6800 GHz Stop 5.8800 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		5.7018 GHz	-4.550 dBm			
2	N	f		5.7250 GHz	-54.865 dBm			
3	N	f		5.7350 GHz	-56.526 dBm			
4	N	f		5.7250 GHz	-54.539 dBm			

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.45000000 GHz

Ref Offset 2.78 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.512 2 GHz
-0.016 dBm

Start 5.3500 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.5500 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.512 2 GHz	-0.016 dBm			
2	N		f	5.460 0 GHz	-47.894 dBm			
3	N		f	5.470 0 GHz	-46.657 dBm			
4	N		f	5.469 2 GHz	-43.235 dBm			

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE-PULSE ALIGN AUTO 04:52:56 PM Oct 11, 2025

Center Freq 5.45000000 GHz

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

Ref Offset 2.78 dB Ref 20.00 dBm Mkr1 5.508 0 GHz -7.809 dBm

The spectrum analyzer trace displays a signal at 5.508 GHz with a power level of -7.809 dBm. The y-axis represents power in dBm, ranging from -70.0 to 10.0. The x-axis represents frequency in GHz, ranging from 5.350 to 5.550. The signal is centered around 5.508 GHz. There are also two smaller peaks labeled 2 and 3.

MkR MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	5.508 0 GHz	-7.809 dBm			
2	N	f	5.460 0 GHz	-56.711 dBm			
3	N	f	5.470 0 GHz	-54.781 dBm			
4	N	f	5.469 8 GHz	-54.568 dBm			

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.730000000 GHz

Ref Offset 3.12 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.672 6 GHz
1.010 dBm

Start 5.6300 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.8300 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.672 6 GHz	1.010 dBm			
2	N		f	5.725 0 GHz	-48.883 dBm			
3	N		f	5.735 0 GHz	-48.611 dBm			
4	N		f	5.726 4 GHz	-46.838 dBm			

Agilent Spectrum Analyzer - Swept SA

RL RF SO Q AC SENSE-PULSE ALIGN AUTO 04:57:52 PM Oct 11, 2025

Center Freq 5.730000000 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 W W W W W W W W
DET A N N N N N N

Ref Offset 3.12 dB
Ref 20.00 dBm

Mkr1 5.668 6 GHz
-6.907 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.668 6 GHz	-6.907 dBm			
2	N	f		5.725 0 GHz	-56.592 dBm			
3	N	f		5.735 0 GHz	-56.889 dBm			
4	N	f		5.726 8 GHz	-56.418 dBm			
5								
6								
7								
8								
9								
10								
11								

Start 5.6300 GHz Stop 5.8300 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.000 ms (1001 pts)

MSG STATUS

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.420000000 GHz

Ref Offset 2.79 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 5.500 6 GHz
3.482 dBm

Start 5.3200 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 5.5200 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.500 6 GHz	3.482 dBm			
2	N		f	5.460 0 GHz	-48.046 dBm			
3	N		f	5.470 0 GHz	-48.127 dBm			
4	N		f	5.463 0 GHz	-46.435 dBm			

[illegible]

[illegible][illegible]

[illegible]

Agilent Spectrum Analyzer - Swept SA

R/L	RF	SO Q AC	SENSE-PULSE	ALIGN-AUTO	05-05-56 PM Oct 11, 2025
-----	----	---------	-------------	------------	--------------------------

Center Freq 5.45000000 GHz

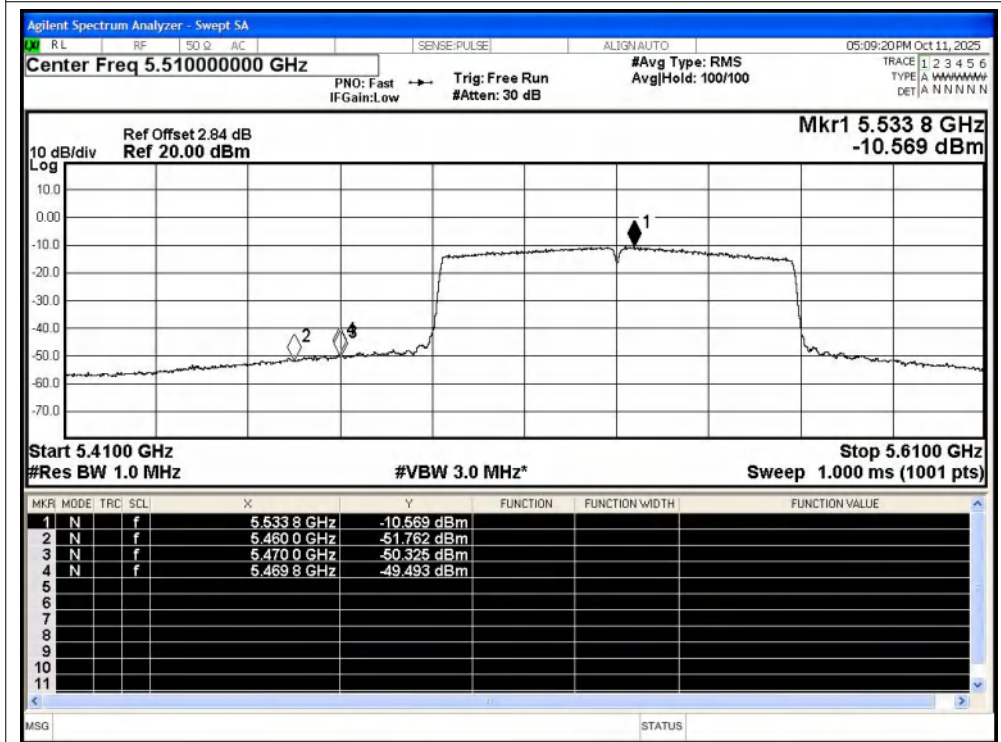
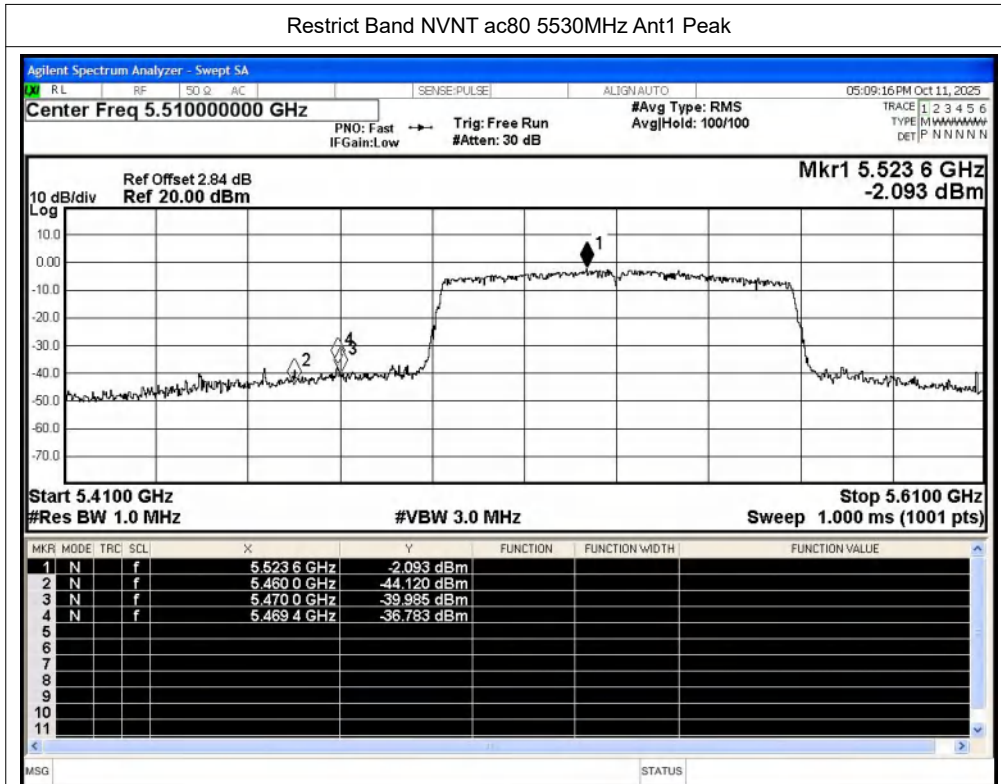
PNO: Fast IFGain: Low Trig: Free Run #Atten: 30 dB #Avg Type: RMS AvgHold: 100/100

Ref Offset 2.78 dB Ref 20.00 dBm Mkr1 5.508 6 GHz -6.883 dBm

The spectrum analyzer displays a swept frequency range from 5.3500 GHz to 5.5500 GHz. A significant peak is observed at 5.5086 GHz, labeled as Marker 1 (-6.883 dBm). Other smaller peaks are visible at 5.4600 GHz (Marker 2), 5.4700 GHz (Marker 3), and 5.4698 GHz (Marker 4).

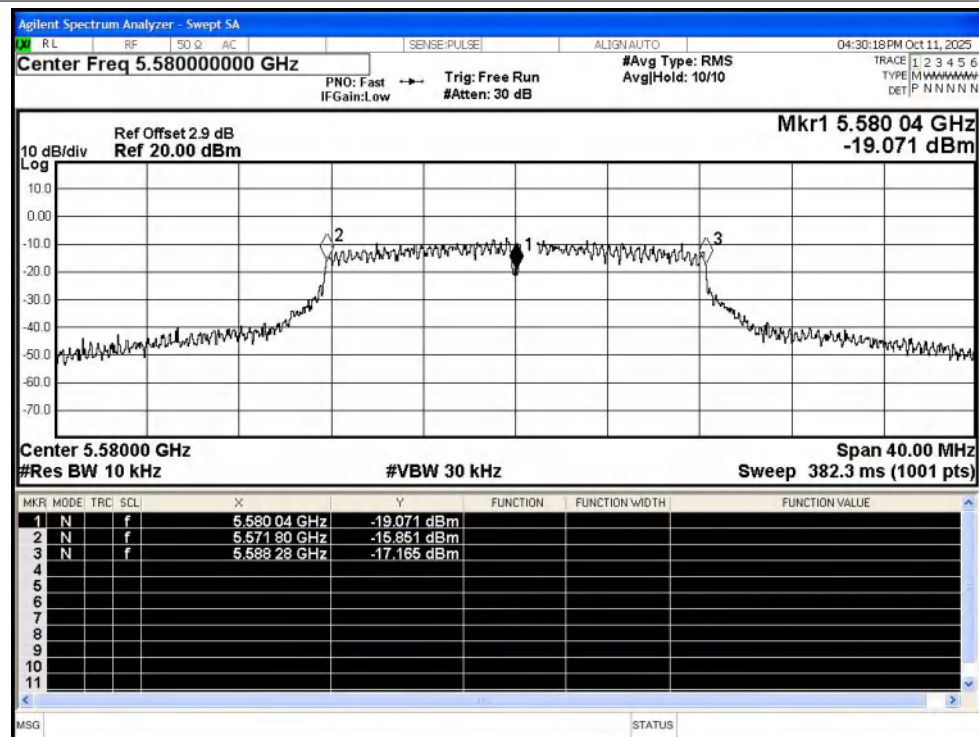
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.508 6 GHz	-6.883 dBm			
2	N	f		5.460 0 GHz	-55.727 dBm			
3	N	f		5.470 0 GHz	-53.926 dBm			
4	N	f		5.469 8 GHz	-53.748 dBm			

[illegible][illegible]



5 Frequency Stability

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
NVNT	a	5500	Ant1	5500	0	0	25	Pass
NVNT	a	5580	Ant1	5580.04	40000	7.17	25	Pass
NVNT	a	5700	Ant1	5700	0	0	25	Pass
NVNT	n20	5500	Ant1	5500.02	20000	3.64	25	Pass
NVNT	n20	5580	Ant1	5580	0	0	25	Pass
NVNT	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
NVNT	n40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
NVNT	n40	5550	Ant1	5550.04	40000	7.21	25	Pass
NVNT	n40	5670	Ant1	5670	0	0	25	Pass
NVNT	ac20	5500	Ant1	5500.02	20000	3.64	25	Pass
NVNT	ac20	5580	Ant1	5579.98	-20000	-3.58	25	Pass
NVNT	ac20	5700	Ant1	5700	0	0	25	Pass
NVNT	ac40	5510	Ant1	5510	0	0	25	Pass
NVNT	ac40	5550	Ant1	5550.04	40000	7.21	25	Pass
NVNT	ac40	5670	Ant1	5670.04	40000	7.05	25	Pass
NVNT	ac80	5530	Ant1	5530	0	0	25	Pass
NVNT	ac80	5610	Ant1	5610	0	0	25	Pass



Freq. Stability NVNT a 5700MHz Ant1

The screenshot displays an Agilent Spectrum Analyzer interface. At the top, it shows the title "Agilent Spectrum Analyzer - Sweep SA". Below this, there are several status fields: "Center Freq 5.700000000 GHz", "Ref Offset 3.05 dB", "Ref 20.00 dBm", "PNO: Fast IF Gain: Low", "Trig: Free Run #Atten: 30 dB", "#Avg Type: RMS", "AvgHold: 10/10", and a date/time stamp "04:32:56 PM Oct 11, 2025". The main plot area shows a frequency spectrum from approximately 5.65 GHz to 5.75 GHz. A prominent signal is visible at 5.700 GHz, labeled "Mkr1 5.700 00 GHz -18.373 dBm". The y-axis is labeled "Log" and ranges from -70.0 to 10.0 dB/div. The x-axis is labeled "Span 40.00 MHz" and "Sweep 382.3 ms (1001 pts)". Below the plot, there is a table with columns: MKR, MODE, TRC, SCL, X, Y, FUNCTION, FUNCTION WIDTH, and FUNCTION VALUE. The table contains three rows of data:

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		5.700 00 GHz	-18.373 dBm			
2	N	f		5.691 76 GHz	-17.134 dBm			
3	N	f		5.708 24 GHz	-15.561 dBm			

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.500000000 GHz

Ref Offset 2.79 dB
Ref 20.00 dBm

Mkr1 5.500 02 GHz
-20.671 dBm

10 dB/div
Log

Center 5.50000 GHz
#Res BW 10 kHz
#VBW 30 kHz
Sweep 382.3 ms (1001 pts)

Span 40.00 MHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	5.500 02 GHz	-20.671 dBm			
2	N		f	5.491 16 GHz	-17.781 dBm			
3	N		f	5.508 88 GHz	-18.261 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

[illegible][illegible]

[illegible][illegible]

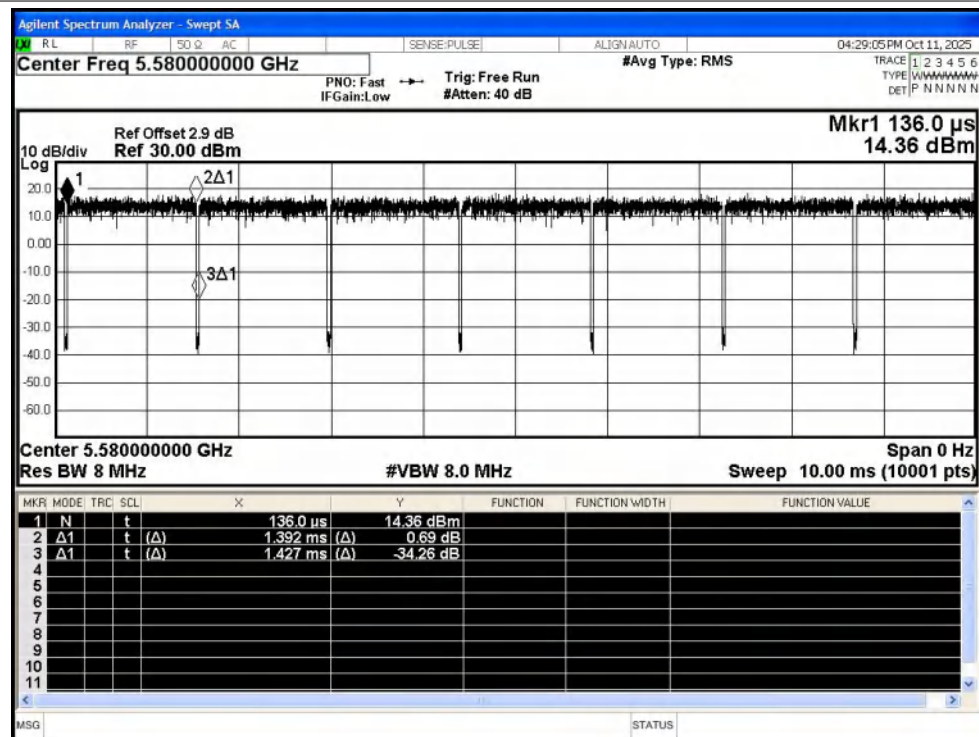
[illegible][illegible]

[illegible][illegible]

[illegible]

6 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	97.48	0.11	0.72
NVNT	a	5580	Ant1	97.55	0.11	0.72
NVNT	a	5700	Ant1	97.55	0.11	0.72
NVNT	n20	5500	Ant1	97.38	0.12	0.77
NVNT	n20	5580	Ant1	97.31	0.12	0.77
NVNT	n20	5700	Ant1	97.38	0.12	0.77
NVNT	n40	5510	Ant1	97.49	0.11	0.8
NVNT	n40	5550	Ant1	97.34	0.12	0.8
NVNT	n40	5670	Ant1	97.26	0.12	0.8
NVNT	ac20	5500	Ant1	97.4	0.11	0.76
NVNT	ac20	5580	Ant1	97.33	0.12	0.76
NVNT	ac20	5700	Ant1	97.33	0.12	0.76
NVNT	ac40	5510	Ant1	97.25	0.12	0.81
NVNT	ac40	5550	Ant1	97.25	0.12	0.81
NVNT	ac40	5670	Ant1	97.25	0.12	0.81
NVNT	ac80	5530	Ant1	94.45	0.25	1.68
NVNT	ac80	5610	Ant1	94.6	0.24	1.68



[illegible][illegible]

[illegible][illegible]

[illegible]

Duty Cycle NVNT n40 5550MHz Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.550000000 GHz

Ref Offset 2.87 dB
Ref 20.00 dBm

Mkr1 1.038 ms
-8.33 dBm

10 dB/div
Log

Center 5.550000000 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		1.038 ms	-8.33 dBm			
2	Δ1	t	(Δ)	1.245 ms	-2.19 dB			
3	Δ1	t	(Δ)	1.279 ms	0.15 dB			
4								
5								
6								
7								
8								
9								
10								
11								

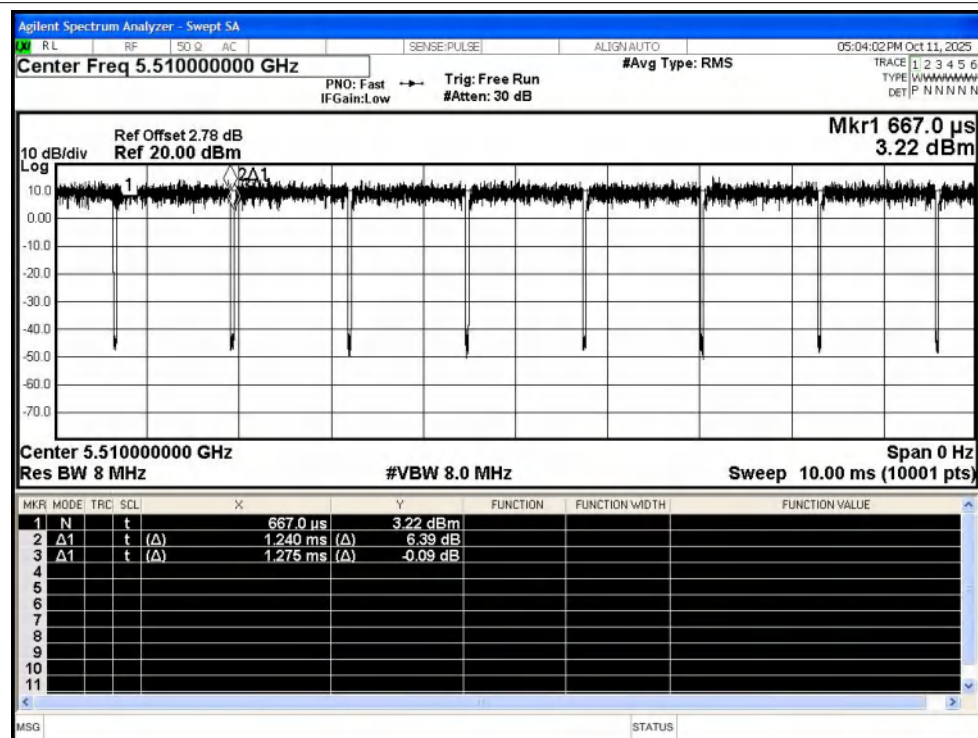
MSG

STATUS

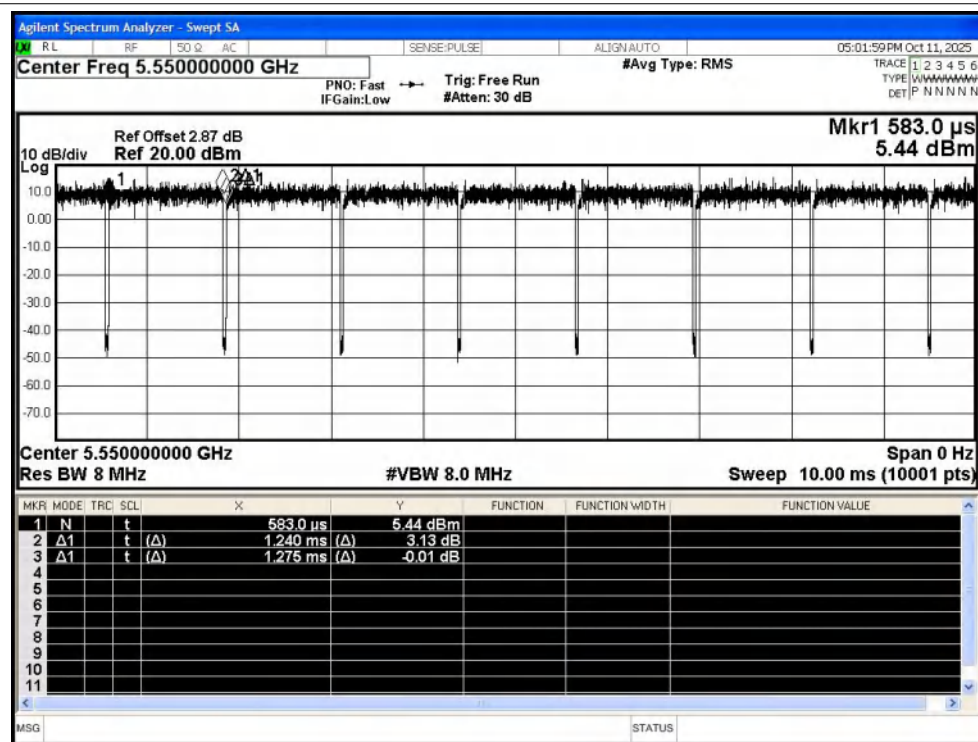
[illegible][illegible]

[illegible][illegible]

Duty Cycle NVNT ac40 5510MHz Ant1



Duty Cycle NVNT ac40 5550MHz Ant1



[illegible][illegible]

