

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5500	Ant1	73.15	1.36	0.73
NVNT	a	5580	Ant1	73.15	1.36	0.73
NVNT	a	5700	Ant1	73.15	1.36	0.73
NVNT	a	5500	Ant2	73.15	1.36	0.73
NVNT	a	5580	Ant2	73.15	1.36	0.73
NVNT	a	5700	Ant2	73.15	1.36	0.73
NVNT	n20	5500	Sum	71.82	1.44	0.78
NVNT	n20	5580	Sum	71.73	1.44	0.78
NVNT	n20	5700	Sum	71.82	1.44	0.78
NVNT	n40	5510	Sum	55.91	2.53	1.58
NVNT	n40	5550	Sum	56	2.52	1.57
NVNT	n40	5670	Sum	55.91	2.53	1.58

Duty Cycle NVNT a 5700MHz Ant1

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.700000000 GHz

Ref Offset 4.3 dB
Ref 30.00 dBm

10 dB/div

Log

Mkr1 231.0 μ s
-4.25 dBm

Center 5.700000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 10.00 ms (10001 pts)

Mkr	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	231.0 μ s	-4.25 dBm			
2	N	1	t	731.0 μ s	-29.03 dBm			
3	N	1	t	2.093 ms	-4.18 dBm			

Duty Cycle NVNT a 5500MHz Ant2

Analyzer Settings:

- Center Freq: 5.50000000 GHz
- Ref Offset: 4.84 dB
- Ref: 30.00 dBm
- Trig: Free Run
- #Atten: 40 dB
- Avg Type: Log-Pwr
- Span: 0 Hz
- Res BW: 1.0 MHz
- #VBW: 3.0 MHz
- Sweep: 10.0 ms (10001 pts)

Signal Characteristics:

- Marker 1: 960.0 μ s, -12.29 dBm
- Marker 2: 1.460 ms, -25.06 dBm
- Marker 3: 2.822 ms, -5.49 dBm

Duty Cycle NVNT a 5580MHz Ant2

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.580000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr 03:03:09 PM Dec 05, 2024

Ref Offset 4.67 dB Mkr1 1.207 ms
 Ref 30.00 dBm #Atten: 40 dB -27.59 dBm

10 dB/div
 Log

Center 5.580000000 GHz Span 0 Hz
 Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts)

MKS	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.207 ms	-27.59 dBm			
2	N	1	t	1.707 ms	-14.33 dBm			
3	N	1	t	3.069 ms	-14.24 dBm			
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11								

MSG STATUS

Duty Cycle NVNT a 5700MHz Ant2

Analyzer Settings:

- Center Freq: 5.700000000 GHz
- Ref Offset: 4.17 dB
- Ref: 30.00 dBm
- Span: 0 Hz
- Res BW: 1.0 MHz
- #VBW: 3.0 MHz
- Sweep: 10.00 ms (10001 pts)
- Avg Type: Log-Pwr
- Trig: Free Run
- #Atten: 40 dB
- PN0: Fast IF Gain: Low
- Trace: 1 2 3 4 5 6
- Type: W W W W W W W W
- Det: P N N N N N

Signal Measurements:

Mkr	Mode	TRC	SCL	X	Y	Function	Function Width	Function Value
1	N	1	t	866.0 μ s	-16.37 dBm			
2	N	1	t	1.366 ms	-22.62 dBm			
3	N	1	t	2.728 ms	-6.54 dBm			

Duty Cycle NVNT n20 5500MHz Sum

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.500000000 GHz

Ref Offset 5.1 dB
Ref 30.00 dBm

10 dB/div
Log

Mkr1 516.0 μ s
-18.19 dBm

Center 5.500000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 20.00 ms (10001 pts)
Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	516.0 μ s	-18.19 dBm			
2	N	1	t	1.016 ms	-8.96 dBm			
3	N	1	t	2.290 ms	-7.95 dBm			

Duty Cycle NVNT n20 5580MHz Sum

Center Freq 5.58000000 GHz

Ref Offset 4.47 dB
Res 30.00 dBm

Mkr1 1.662 ms
-1.33 dBm

Center 5.58000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 20.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.662 ms	-1.33 dBm			
2	N	1	t	2.164 ms	-9.12 dBm			
3	N	1	t	3.438 ms	-17.37 dBm			

Duty Cycle NVNT n20 5700MHz Sum

Agilent Spectrum Analyzer - Swept SA

U RL RF 50 Ω AC SENSE:PULSE ALIGN:AUTO 03:09:55 PM Dec 05, 2024

Center Freq 5.700000000 GHz
PNO: Fast IFGain:Low
Trig: Free Run #Atten: 40 dB
Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N N

Mkr1 752.0 μ s
-3.57 dBm

Center 5.700000000 GHz
Res BW 1.0 MHz **#VBW 3.0 MHz** **Span 0 Hz**
Sweep 20.00 ms (10001 pts)

MKS	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	752.0 μ s	-3.57 dBm			
2	N	1	t	1.252 ms	-26.82 dBm			
3	N	1	t	2.526 ms	-3.60 dBm			
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MSG STATUS

Duty Cycle NVNT n40 5510MHz Sum

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.51000000 GHz

Ref Offset 5.08 dB
Ref 20.00 dBm

Mkr1 1.124 ms
-38.64 dBm

Center 5.51000000 GHz
Res BW 1.0 MHz
Span 0 Hz
Sweep 10.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.124 ms	-38.64 dBm			
2	N	1	t	1.624 ms	-21.78 dBm			
3	N	1	t	2.258 ms	-27.46 dBm			

Duty Cycle NVNT n40 5550MHz Sum

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.55000000 GHz PNO: Fast Trig: Free Run Avg Type: Log-Pwr
 IF Gain: Low #Atten: 30 dB

03:16:10 PM Dec 05, 2024
 TRACE 1 2 3 4 5 6
 TYPE W W W W W W W W
 DET P N N N N N N

Ref Offset 4.66 dB
 Ref 20.00 dBm

10 dB/div
 Log

Mkr1 419.0 μ s
 -44.66 dBm

Center 5.55000000 GHz Span 0 Hz
 Res BW 1.0 MHz #VBW 3.0 MHz Sweep 10.00 ms (10001 pts)

Mkr	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	419.0 μ s	-44.66 dBm			
2	N	1	t	918.0 μ s	-33.68 dBm			
3	N	1	t	1.553 ms	-34.19 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

Duty Cycle NVNT n40 5670MHz Sum

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.67000000 GHz

Ref Offset 4.31 dB
Res BW 20.00 dBm

Span 0 Hz
Sweep 10.00 ms (10001 pts)

Mkr1 692.0 μs
-15.46 dBm

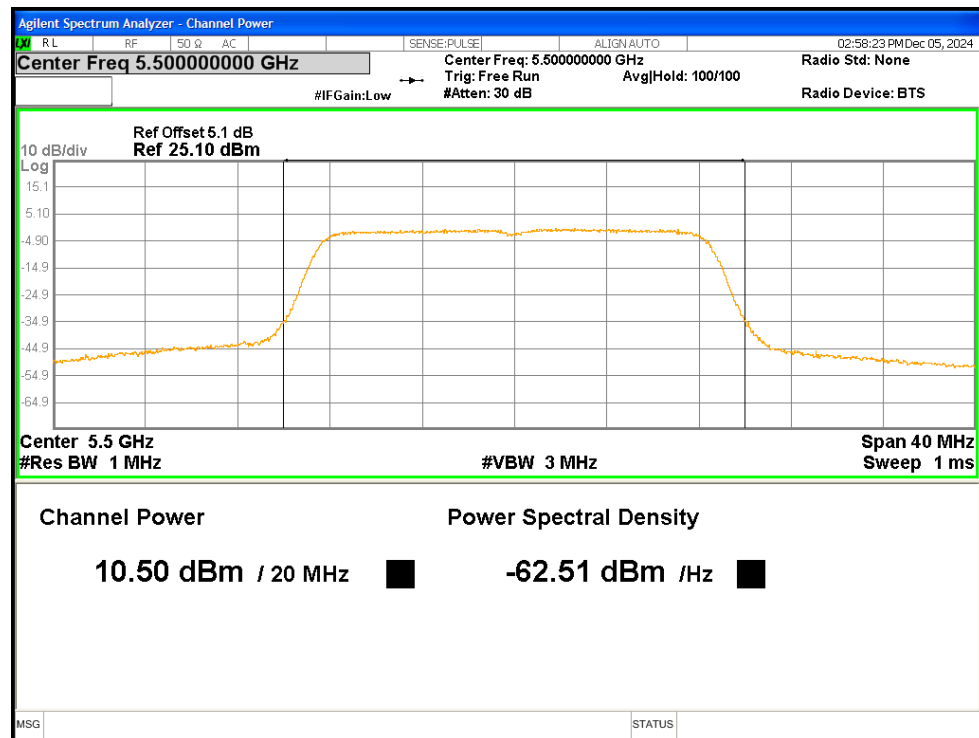
MkR	MODE	TRG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	692.0 μs	-15.46 dBm			
2	N	1	t	1.192 ms	-23.76 dBm			
3	N	1	t	1.826 ms	-12.58 dBm			

2. Maximum Conducted Output Power

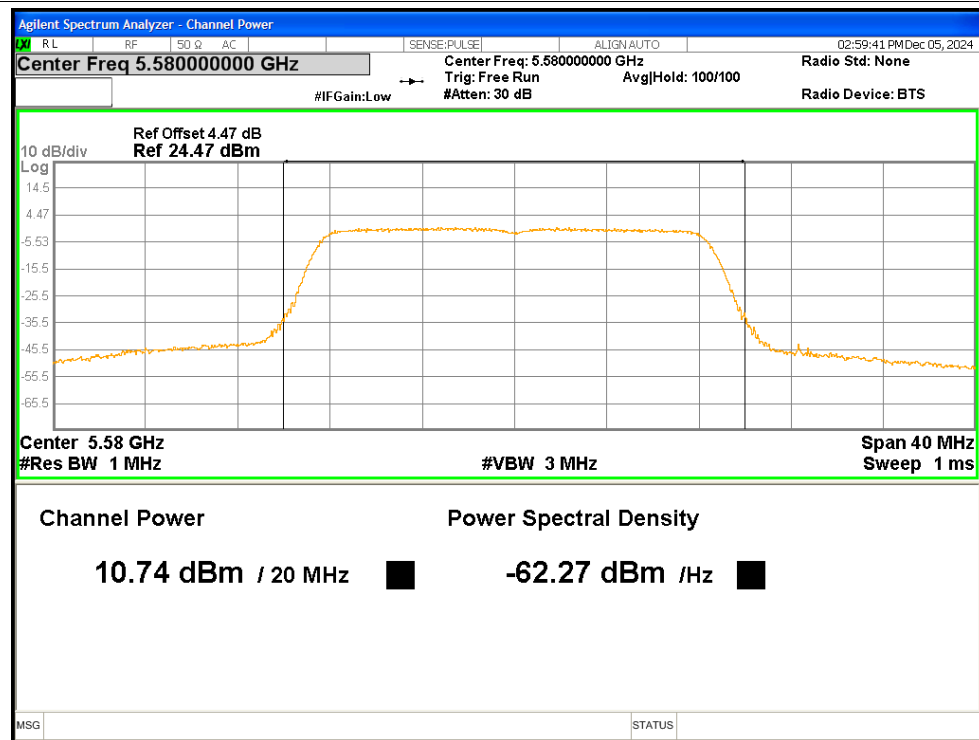
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	10.5	1.36	11.86	<=23.69	Pass
NVNT	a	5580	Ant1	10.74	1.36	12.1	<=23.71	Pass
NVNT	a	5700	Ant1	8.88	1.36	10.24	<=23.71	Pass
NVNT	a	5500	Ant2	9.6	1.36	10.96	<=23.71	Pass
NVNT	a	5580	Ant2	10.42	1.36	11.78	<=23.66	Pass
NVNT	a	5700	Ant2	10.72	1.36	12.08	<=23.7	Pass
NVNT	n20	5500	Ant1	7.72	1.44	9.16	<=23.92	Pass
NVNT	n20	5500	Ant2	8.23	1.44	9.67	<=23.92	Pass
NVNT	n20	5500	Sum	10.99	1.44	12.43	<=21.11	Pass
NVNT	n20	5580	Ant1	7.62	1.44	9.06	<=23.94	Pass
NVNT	n20	5580	Ant2	8.44	1.44	9.88	<=23.94	Pass
NVNT	n20	5580	Sum	11.06	1.44	12.5	<=21.13	Pass
NVNT	n20	5700	Ant1	5.63	1.44	7.07	<=23.91	Pass
NVNT	n20	5700	Ant2	8.75	1.44	10.19	<=23.91	Pass
NVNT	n20	5700	Sum	10.47	1.44	11.91	<=21.1	Pass
NVNT	n40	5510	Ant1	5.65	2.53	8.18	<=24	Pass
NVNT	n40	5510	Ant2	6.65	2.53	9.18	<=24	Pass
NVNT	n40	5510	Sum	9.19	2.53	11.72	<=21.19	Pass
NVNT	n40	5550	Ant1	6.32	2.52	8.84	<=24	Pass
NVNT	n40	5550	Ant2	6.53	2.52	9.05	<=24	Pass
NVNT	n40	5550	Sum	9.44	2.52	11.96	<=21.19	Pass
NVNT	n40	5670	Ant1	4.52	2.53	7.05	<=24	Pass
NVNT	n40	5670	Ant2	7.44	2.53	9.97	<=24	Pass
NVNT	n40	5670	Sum	9.23	2.53	11.76	<=21.19	Pass

Test Graphs

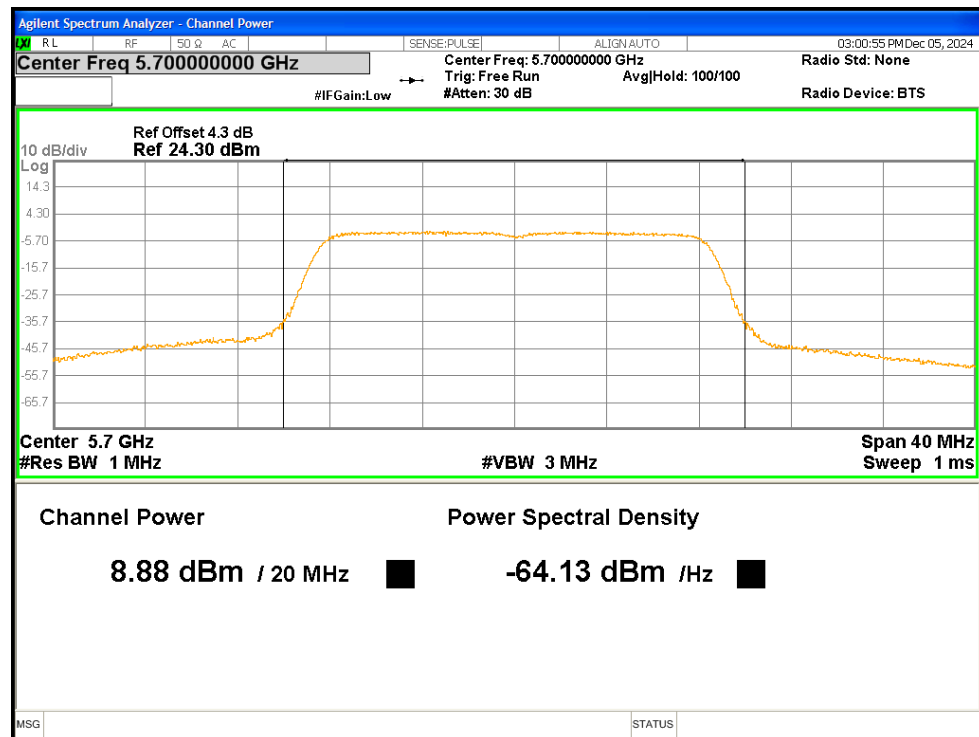
Power NVNT a 5500MHz Ant1



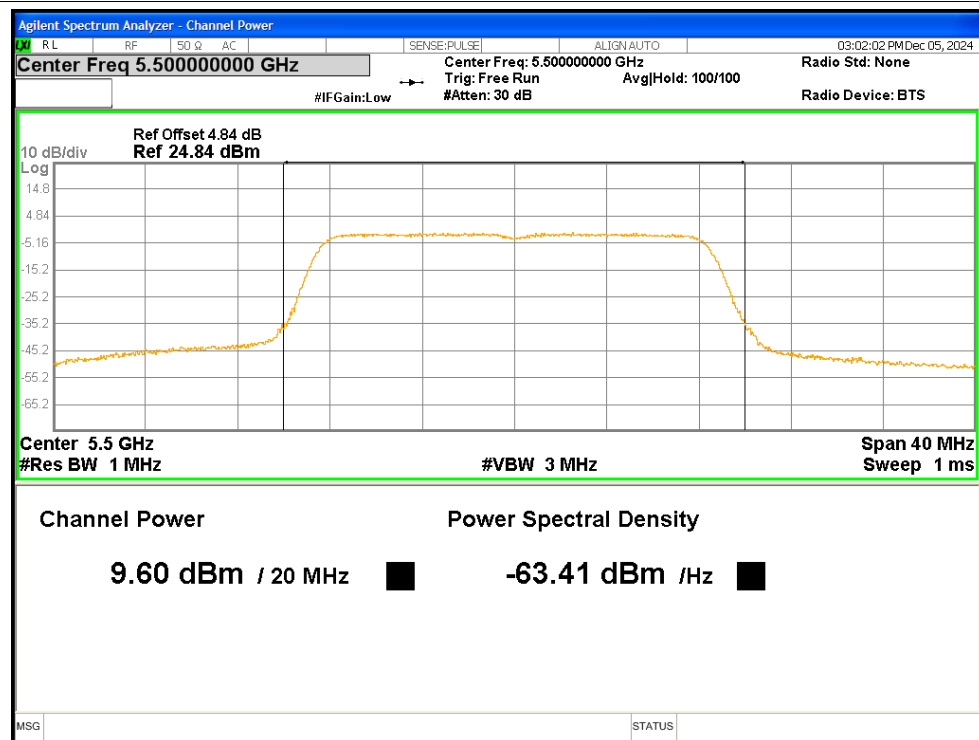
Power NVNT a 5580MHz Ant1



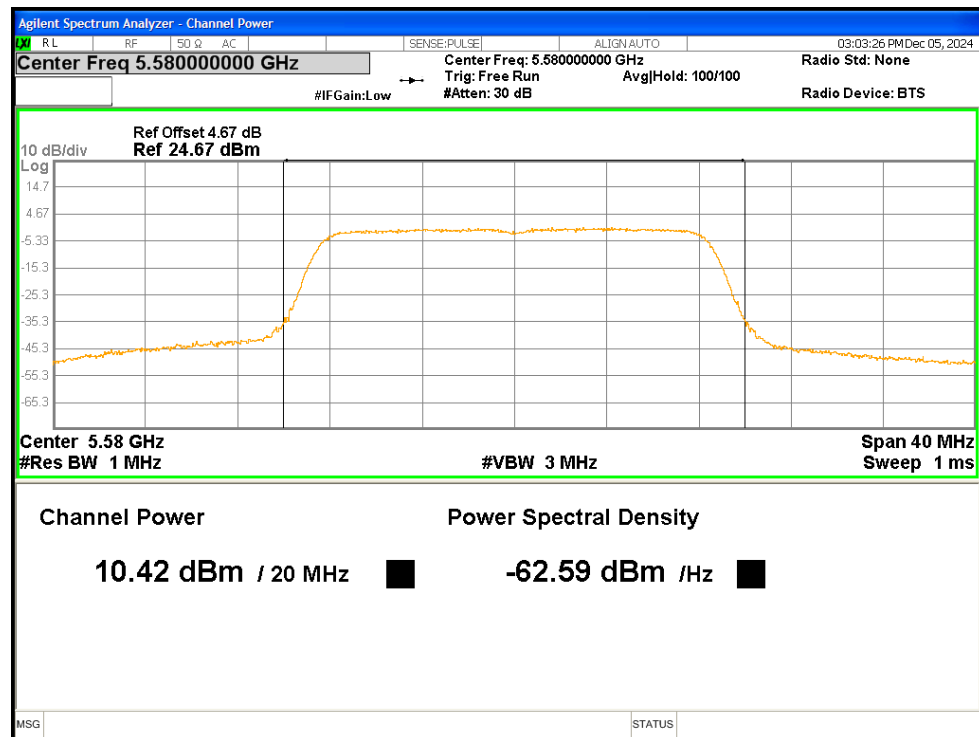
Power NVNT a 5700MHz Ant1



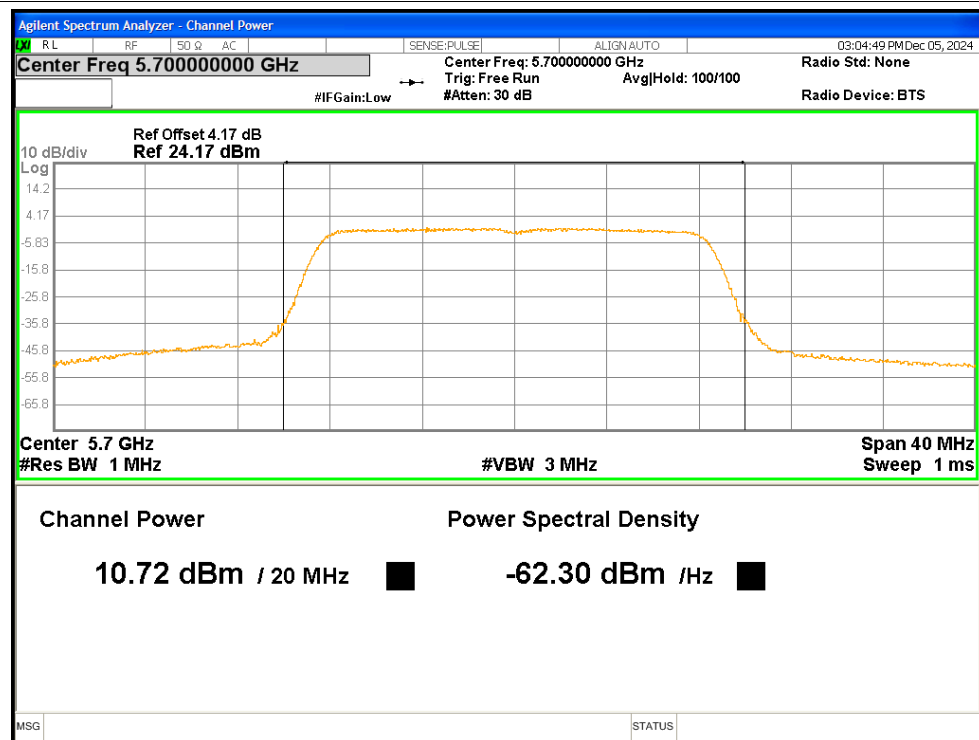
Power NVNT a 5500MHz Ant2



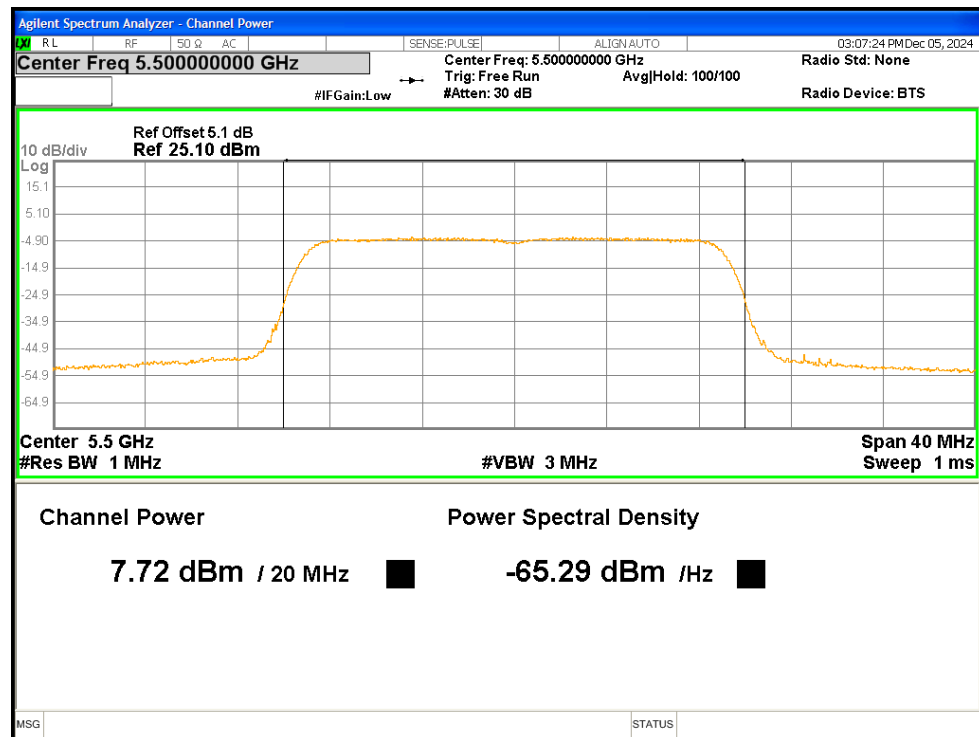
Power NVNT a 5580MHz Ant2



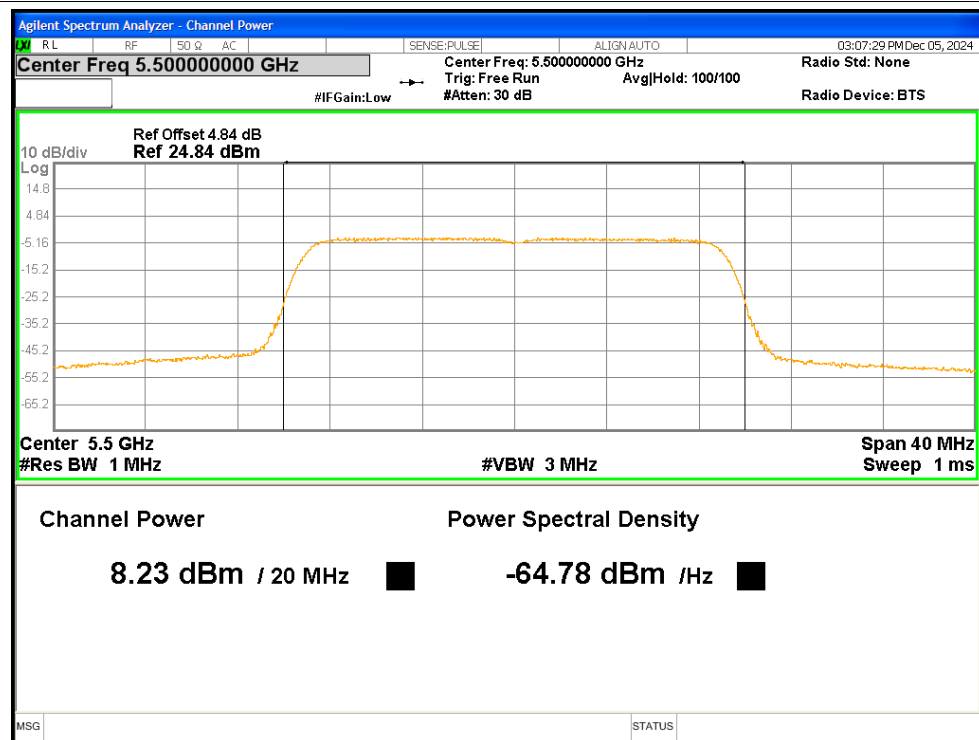
Power NVNT a 5700MHz Ant2



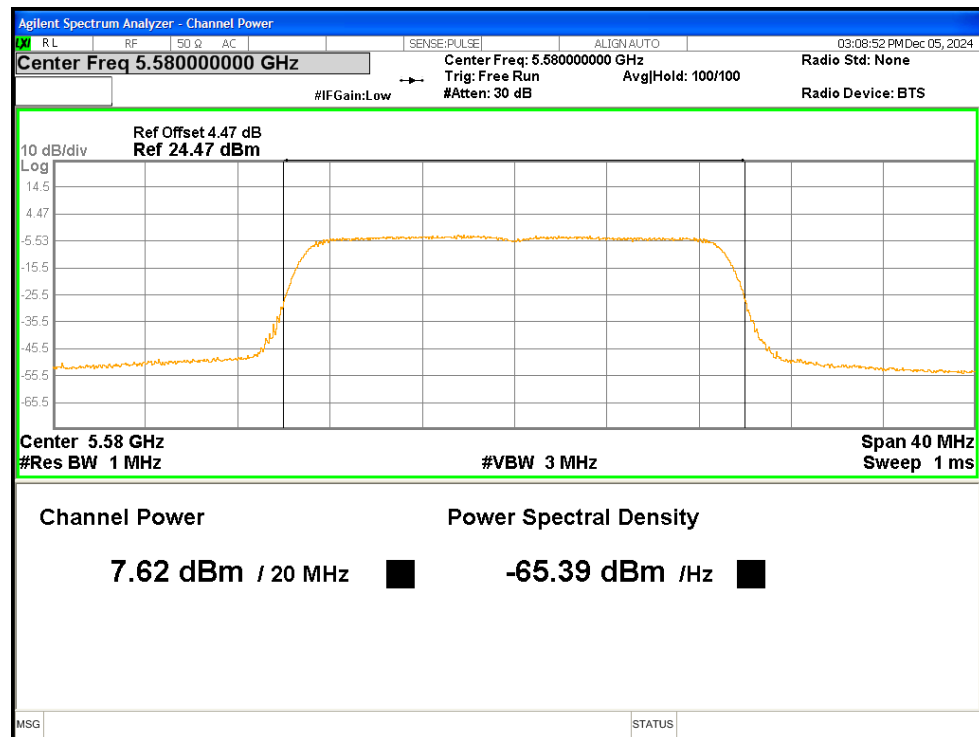
Power NVNT n20 5500MHz Ant1



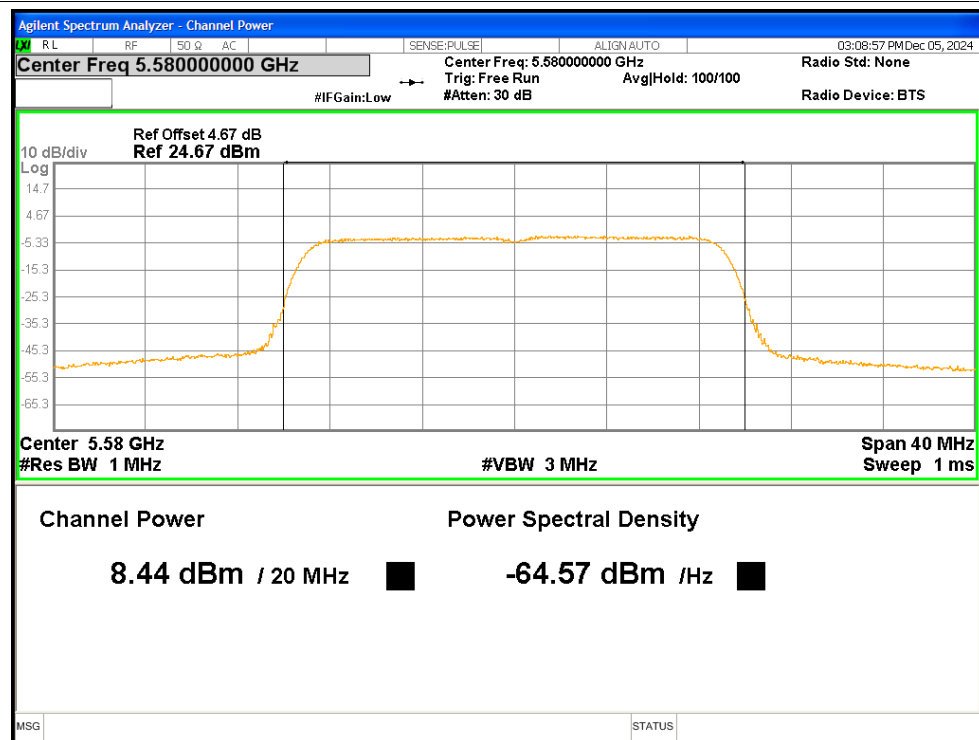
Power NVNT n20 5500MHz Ant2



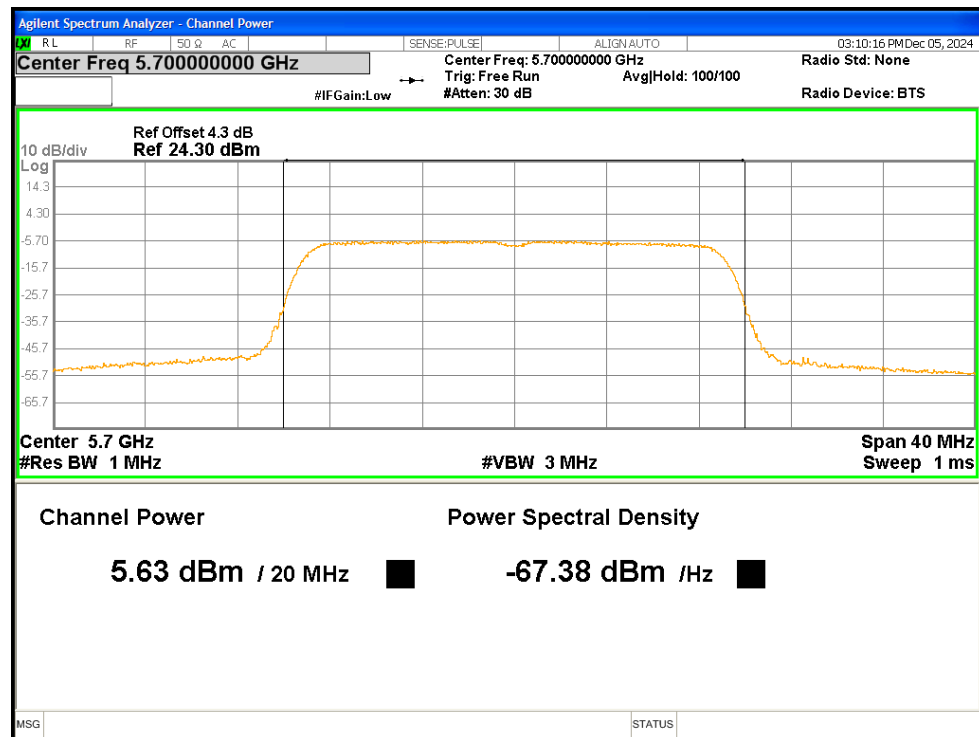
Power NVNT n20 5580MHz Ant1



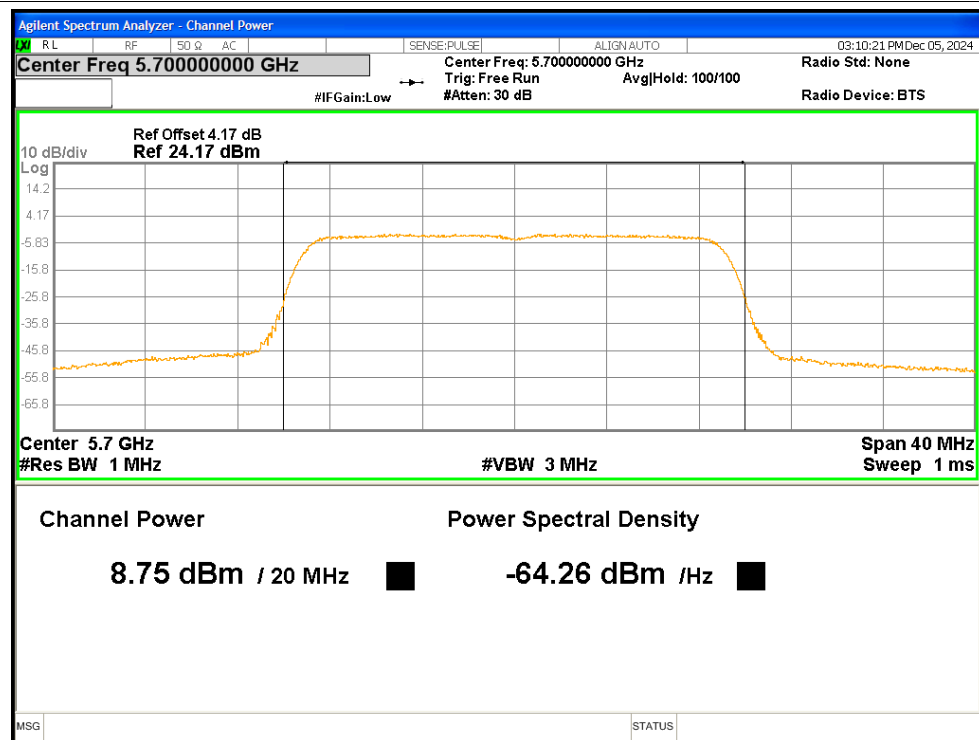
Power NVNT n20 5580MHz Ant2



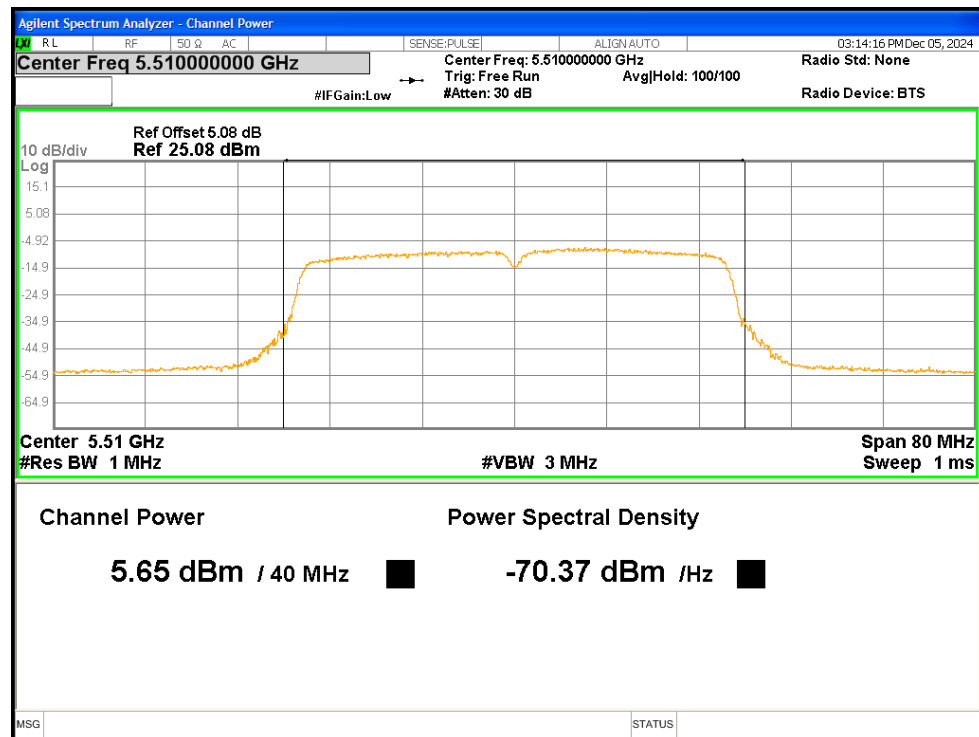
Power NVNT n20 5700MHz Ant1



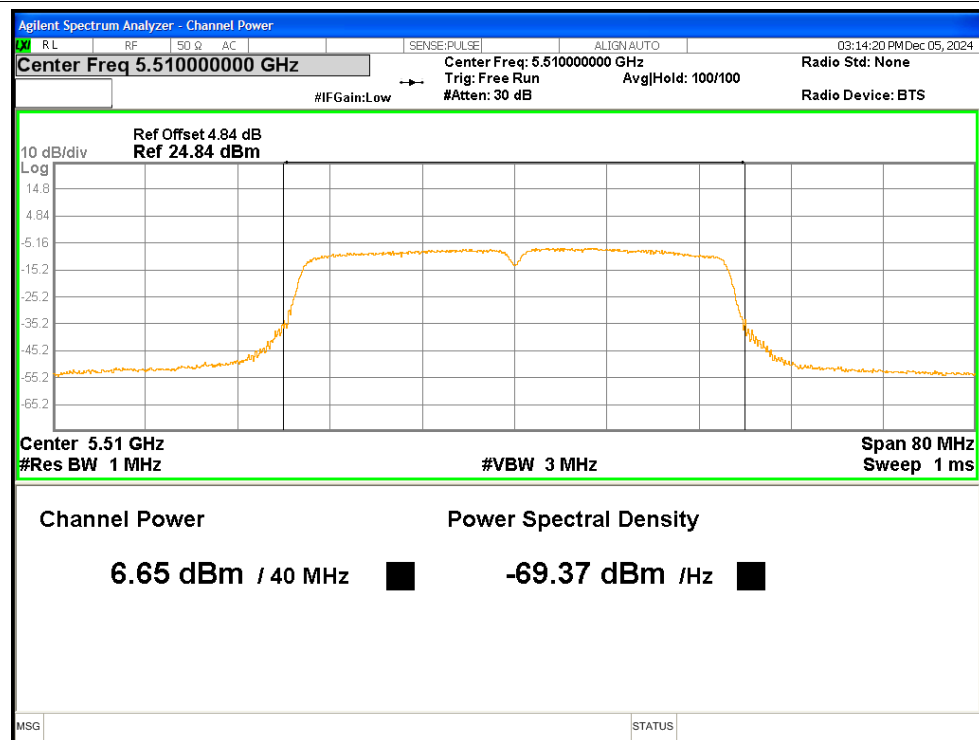
Power NVNT n20 5700MHz Ant2



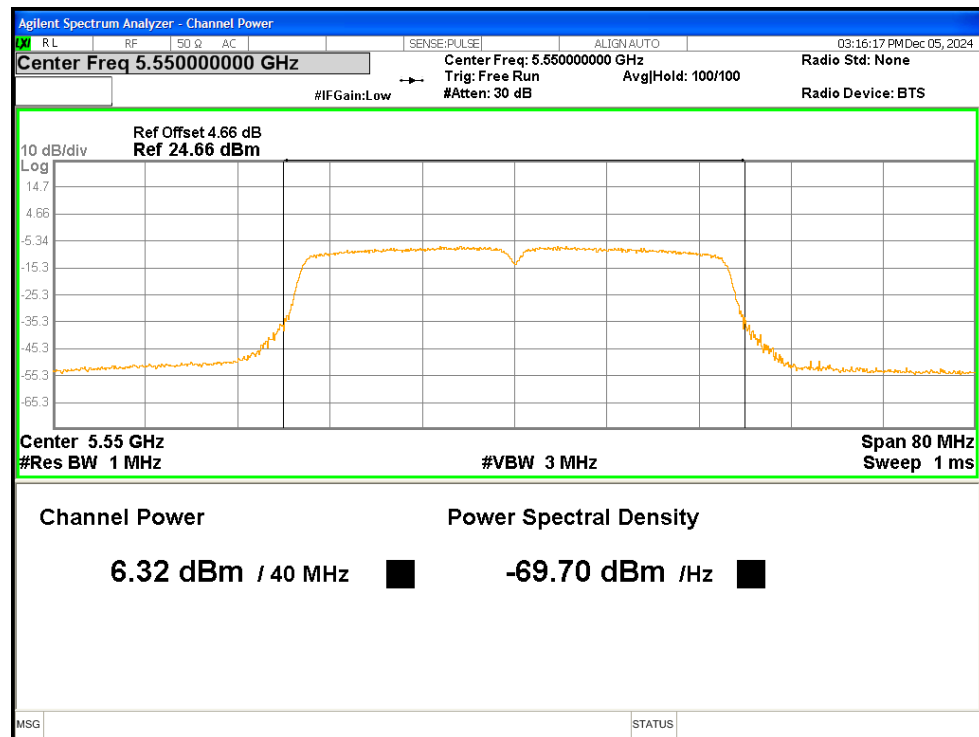
Power NVNT n40 5510MHz Ant1



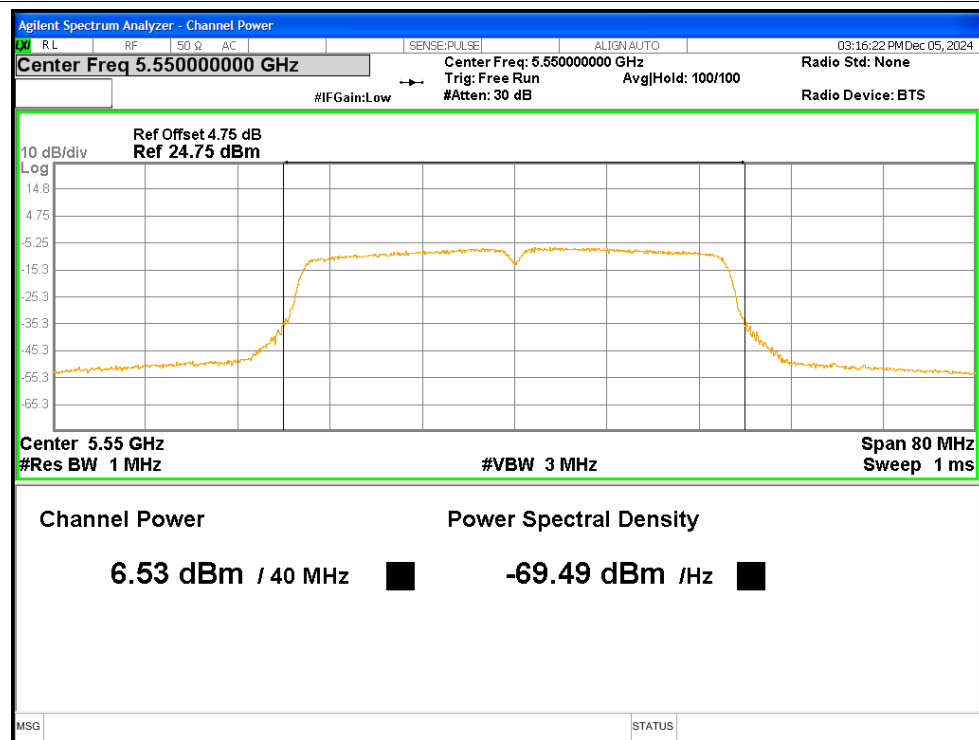
Power NVNT n40 5510MHz Ant2



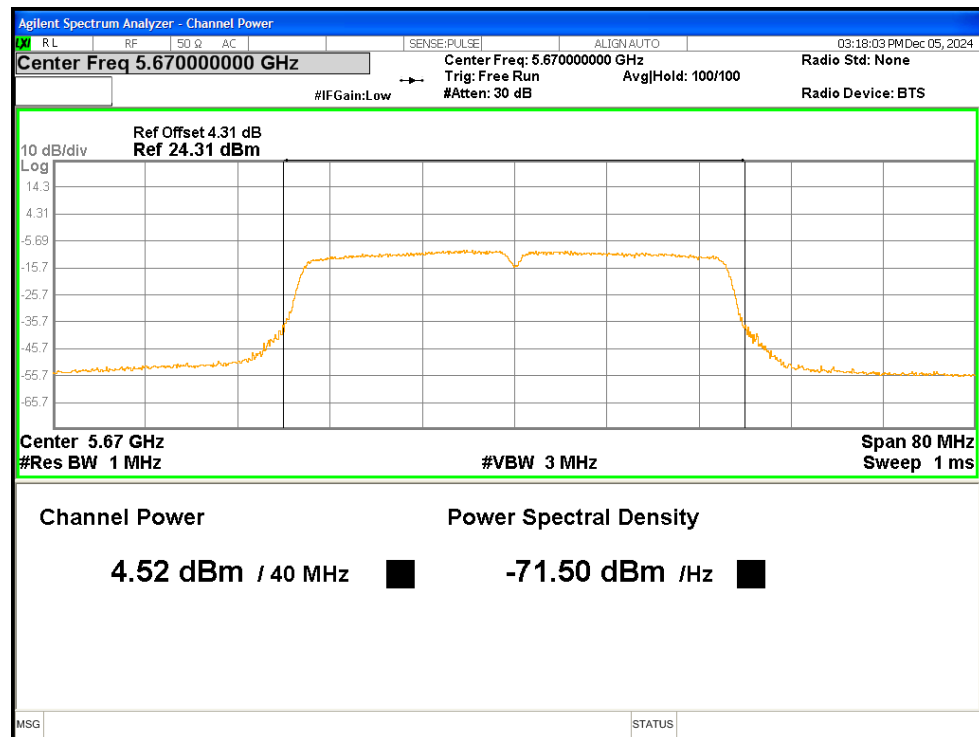
Power NVNT n40 5550MHz Ant1



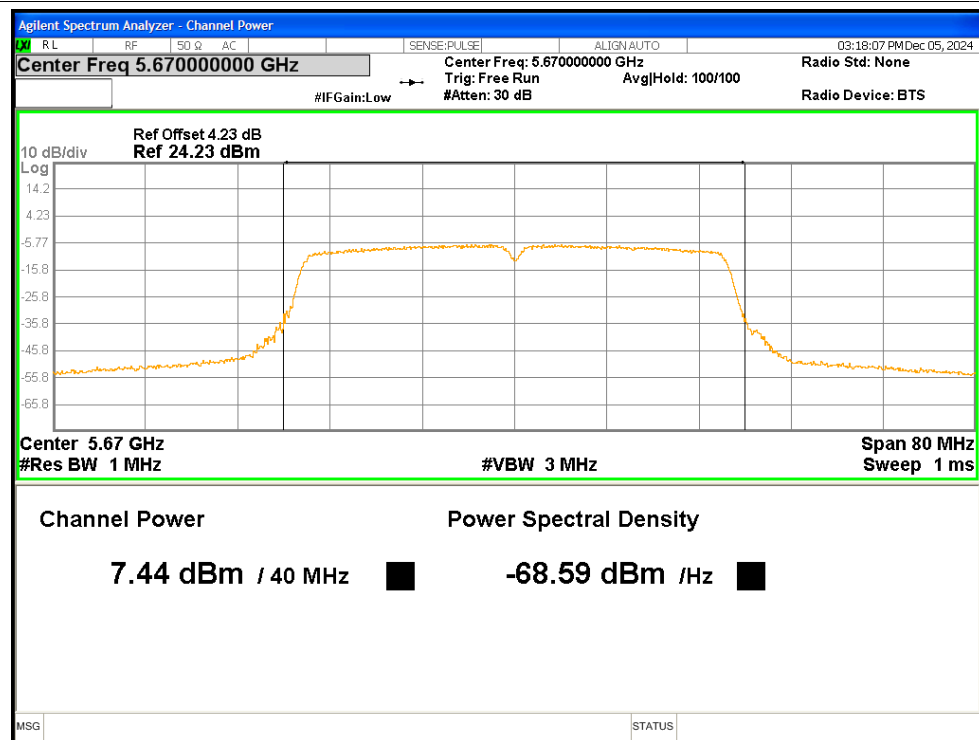
Power NVNT n40 5550MHz Ant2



Power NVNT n40 5670MHz Ant1



Power NVNT n40 5670MHz Ant2

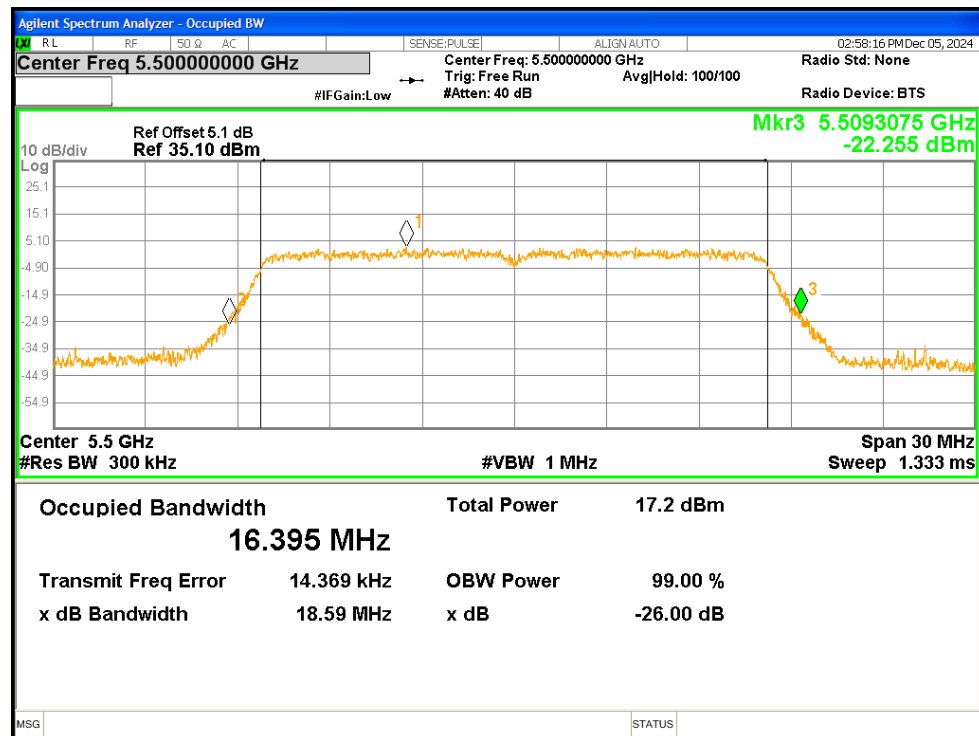


3. -26dB Bandwidth

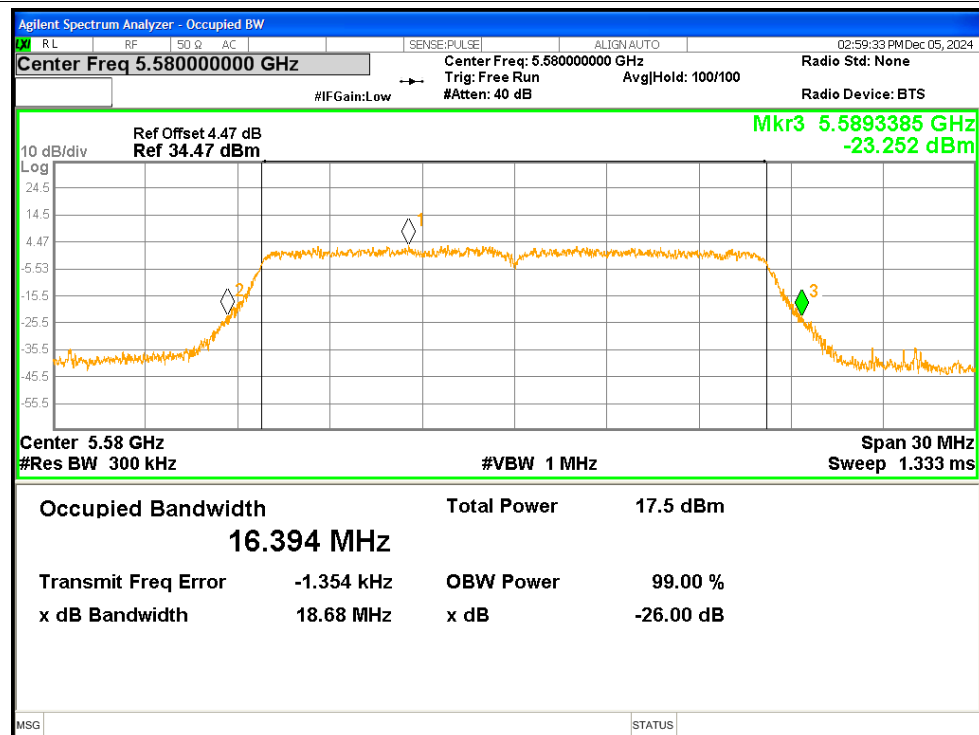
Condition	Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Verdict
NVNT	a	5500	Ant1	18.5863	Pass
NVNT	a	5580	Ant1	18.6796	Pass
NVNT	a	5700	Ant1	18.6636	Pass
NVNT	a	5500	Ant2	18.6732	Pass
NVNT	a	5580	Ant2	18.466	Pass
NVNT	a	5700	Ant2	18.6005	Pass
NVNT	n20	5500	Ant1	19.5385	Pass
NVNT	n20	5500	Ant2	19.5865	Pass
NVNT	n20	5580	Ant1	19.6919	Pass
NVNT	n20	5580	Ant2	19.5976	Pass
NVNT	n20	5700	Ant1	19.5338	Pass
NVNT	n20	5700	Ant2	19.509	Pass
NVNT	n40	5510	Ant1	40.5682	Pass
NVNT	n40	5510	Ant2	40.8676	Pass
NVNT	n40	5550	Ant1	40.4828	Pass
NVNT	n40	5550	Ant2	41.1193	Pass
NVNT	n40	5670	Ant1	40.719	Pass
NVNT	n40	5670	Ant2	40.7432	Pass

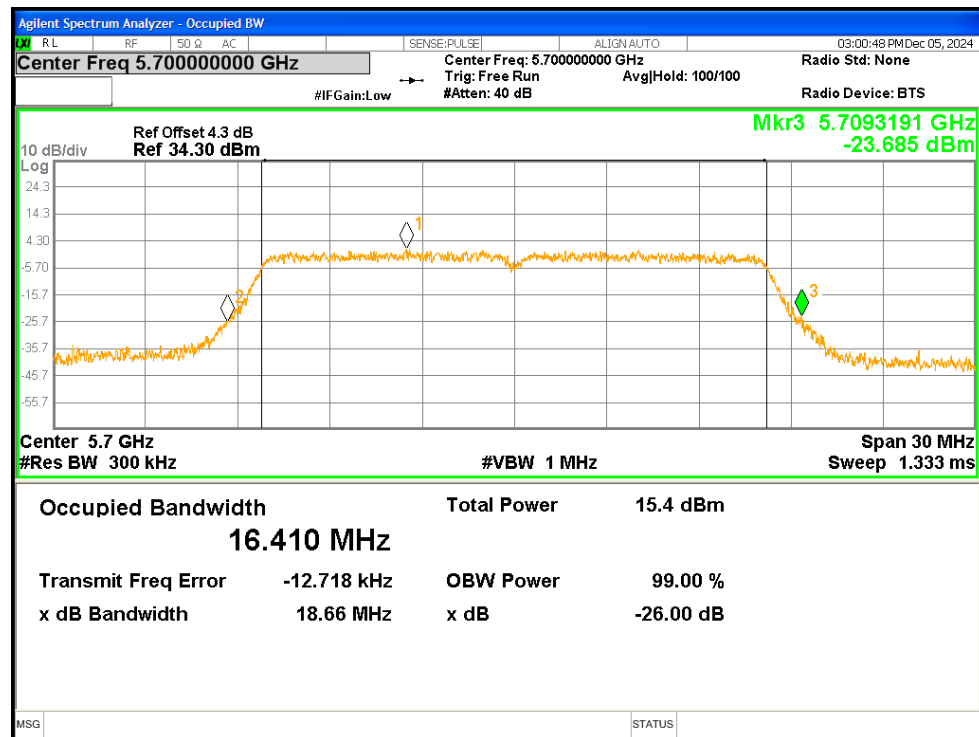
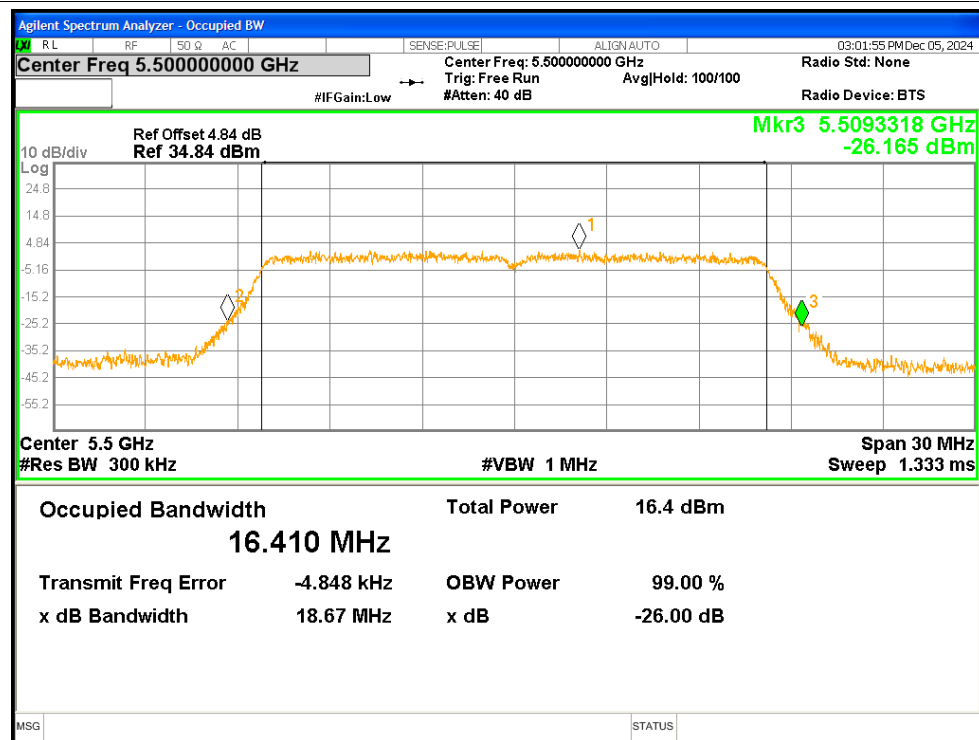
Test Graphs

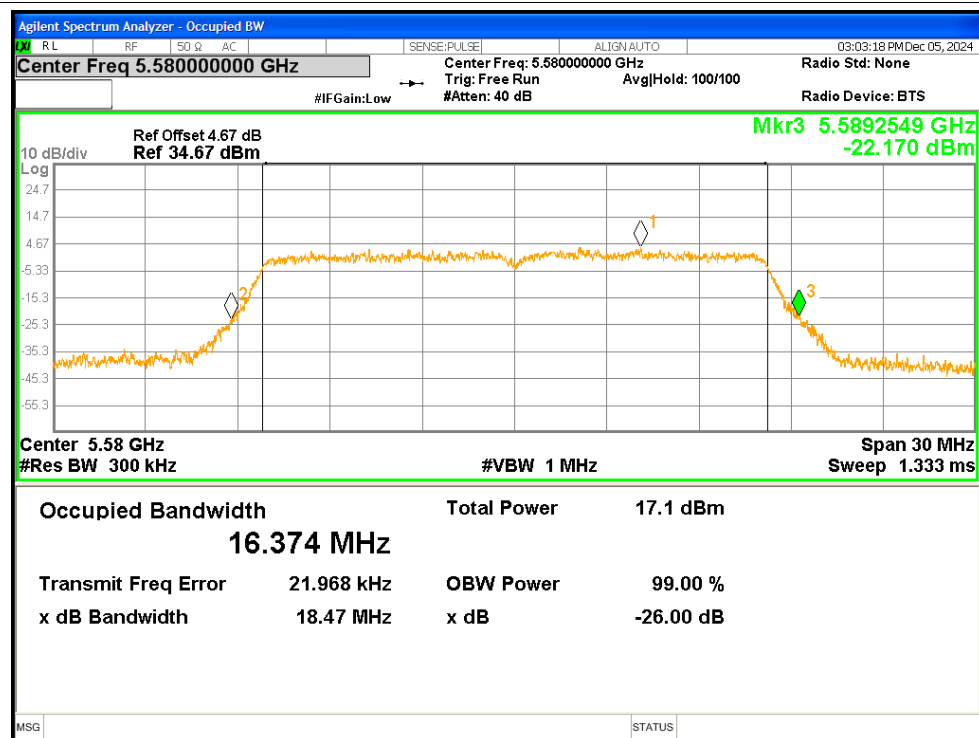
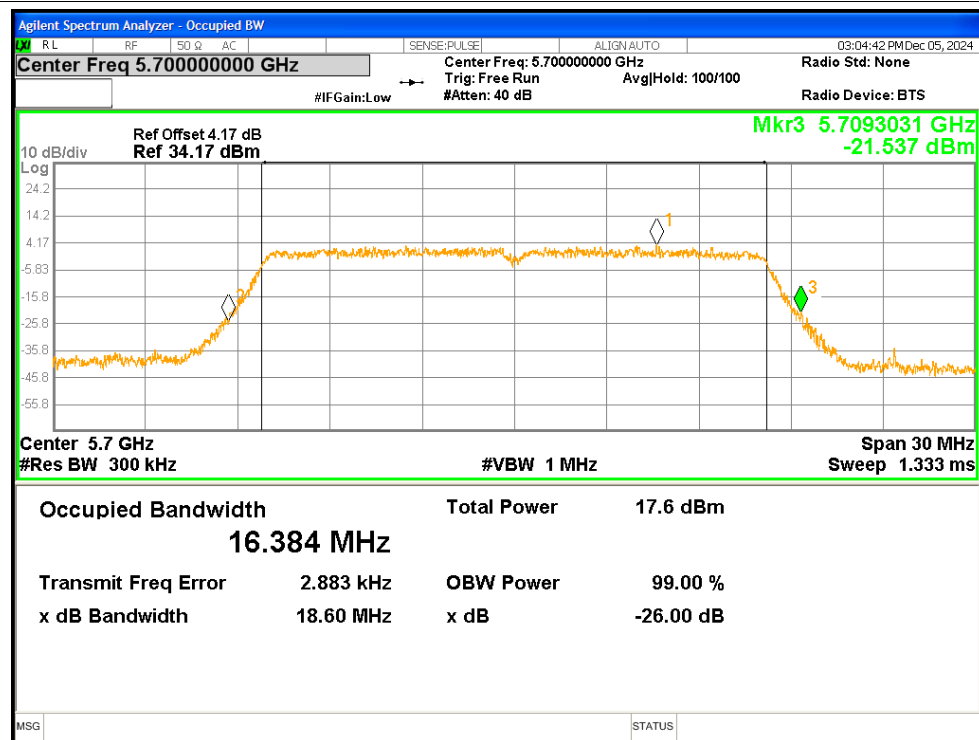
-26dB Bandwidth NVNT a 5500MHz Ant1

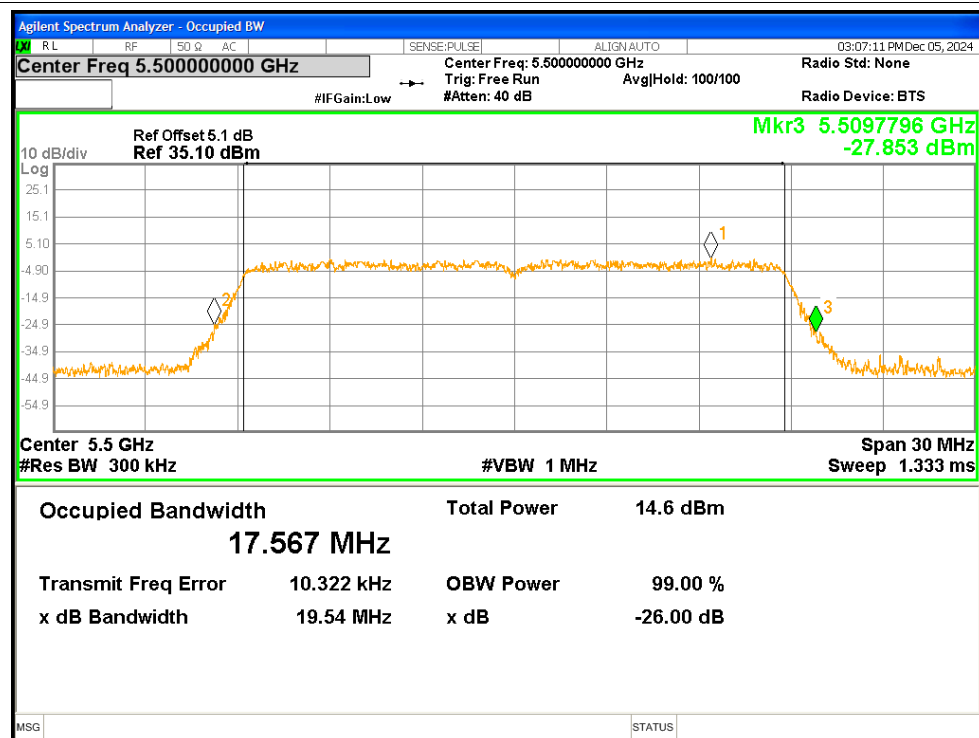
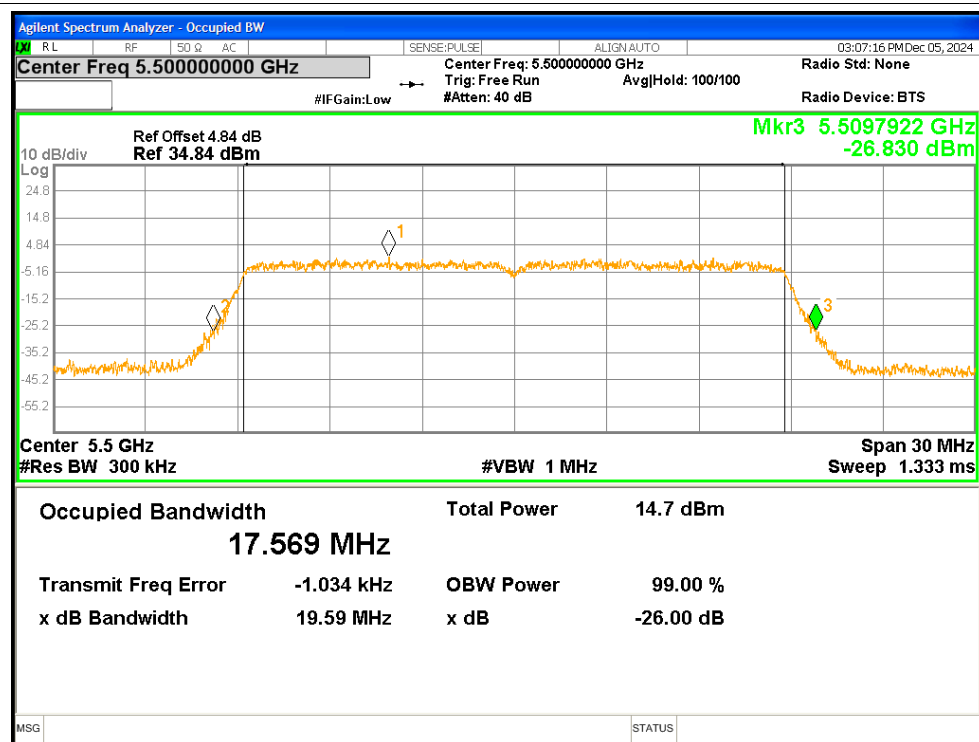


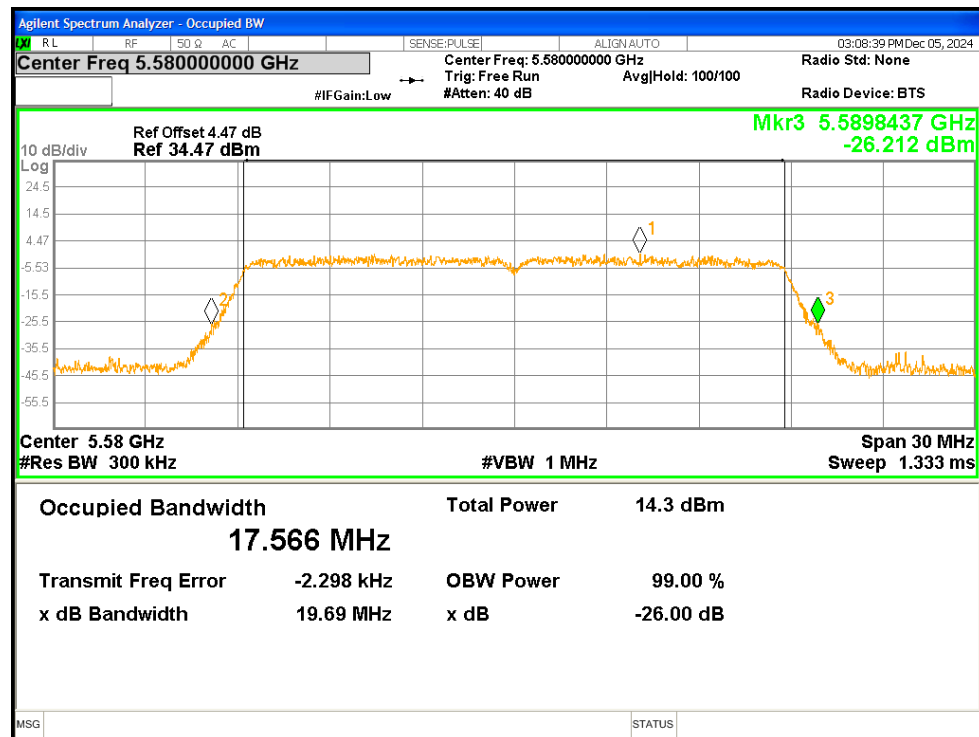
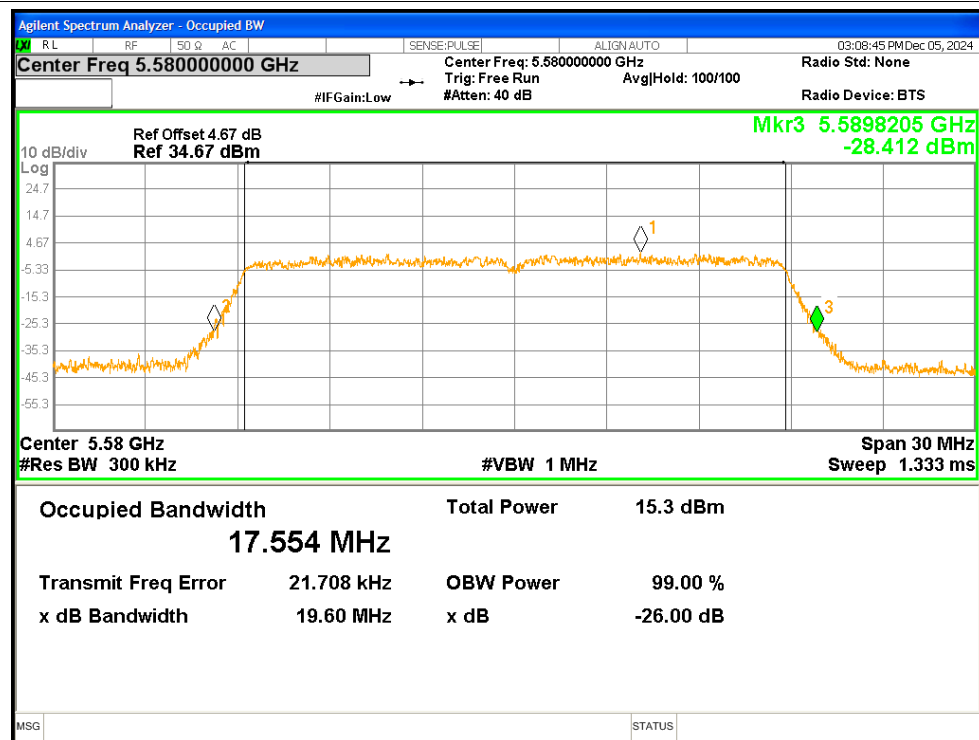
-26dB Bandwidth NVNT a 5580MHz Ant1

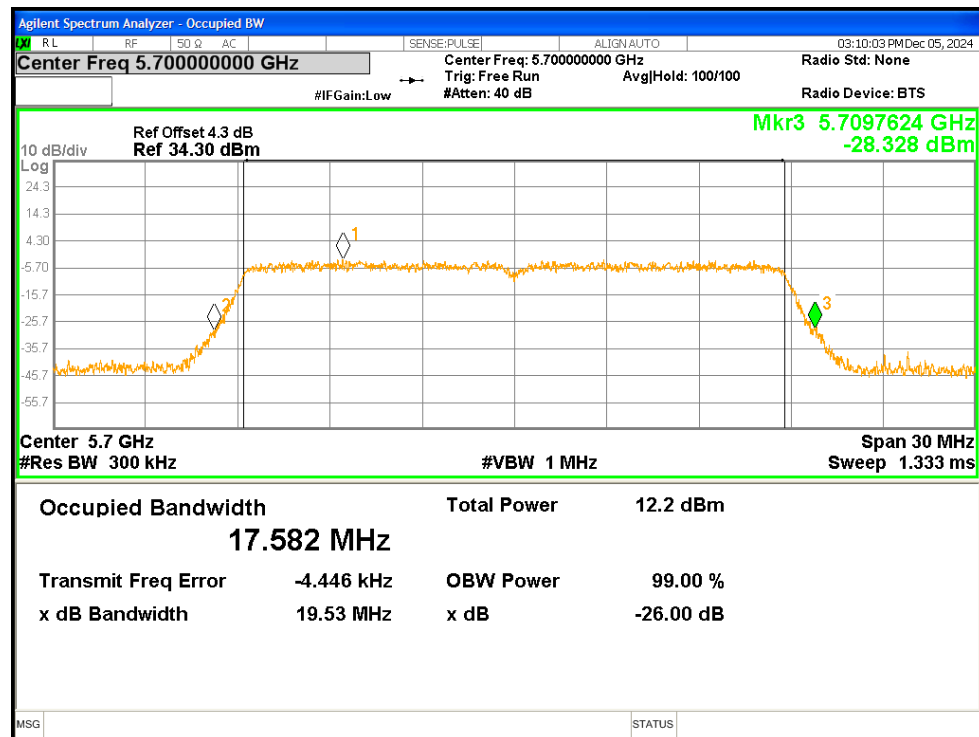
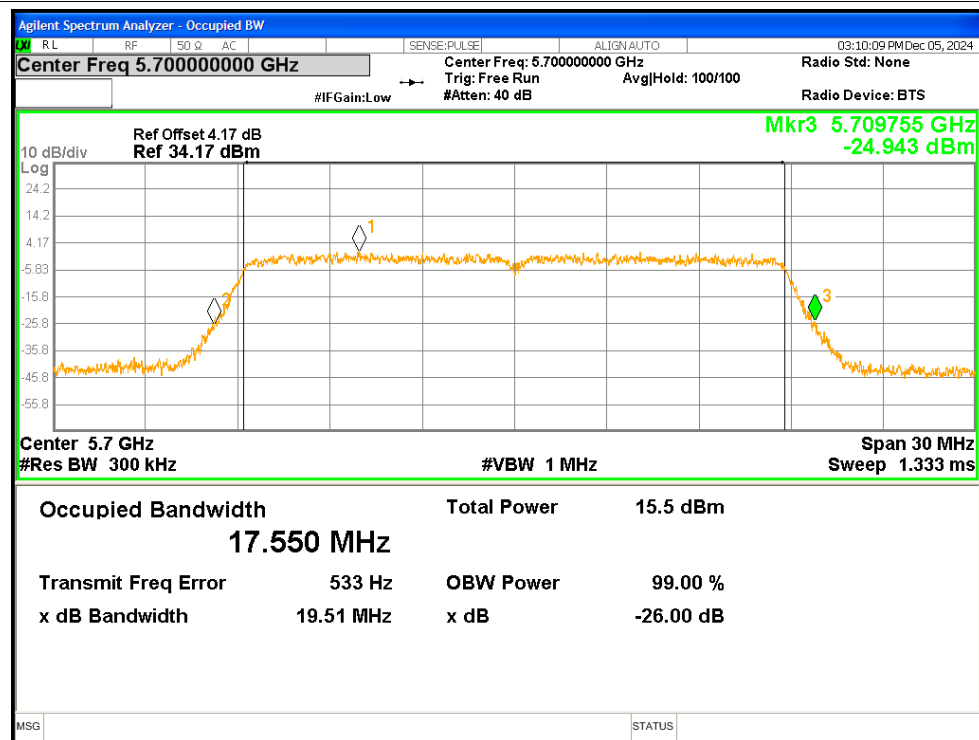


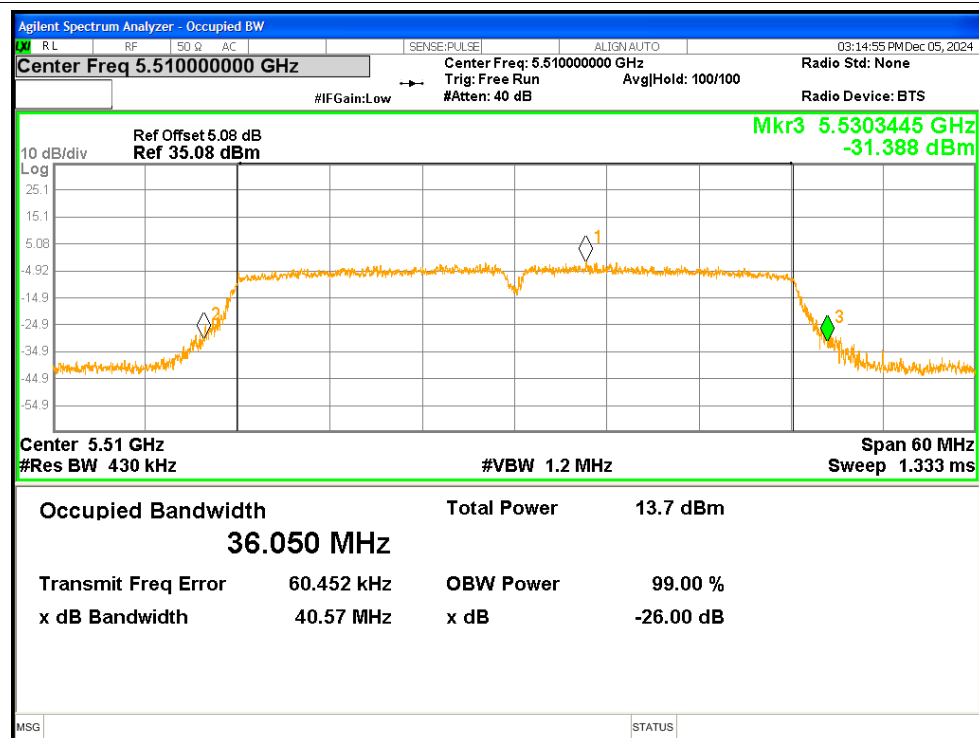
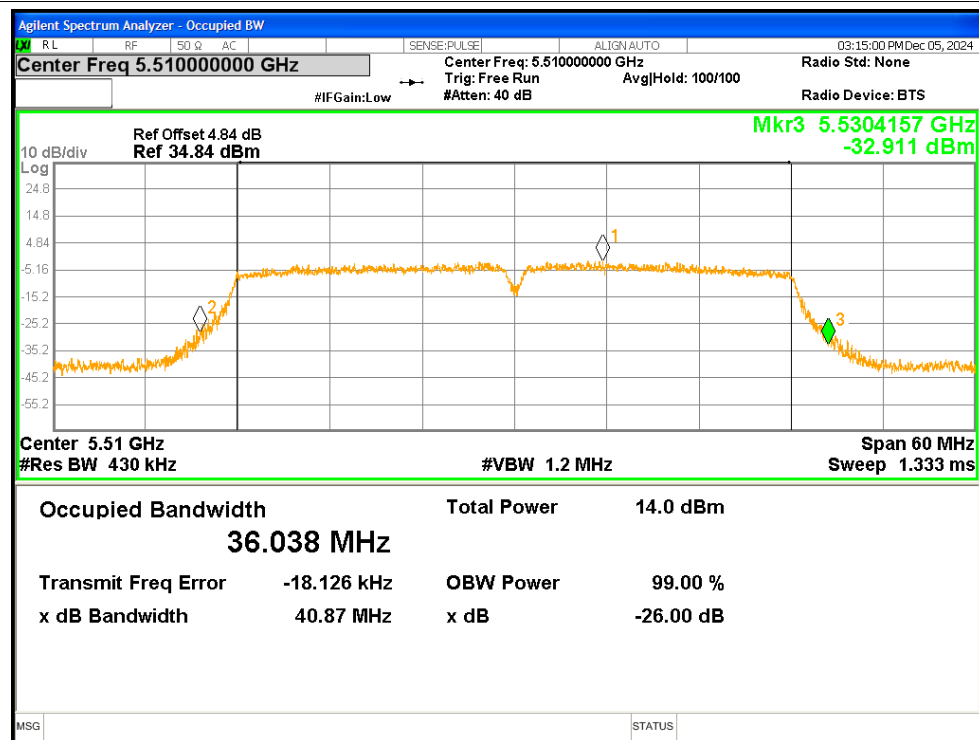
-26dB Bandwidth NVNT a 5700MHz Ant1**-26dB Bandwidth NVNT a 5500MHz Ant2**

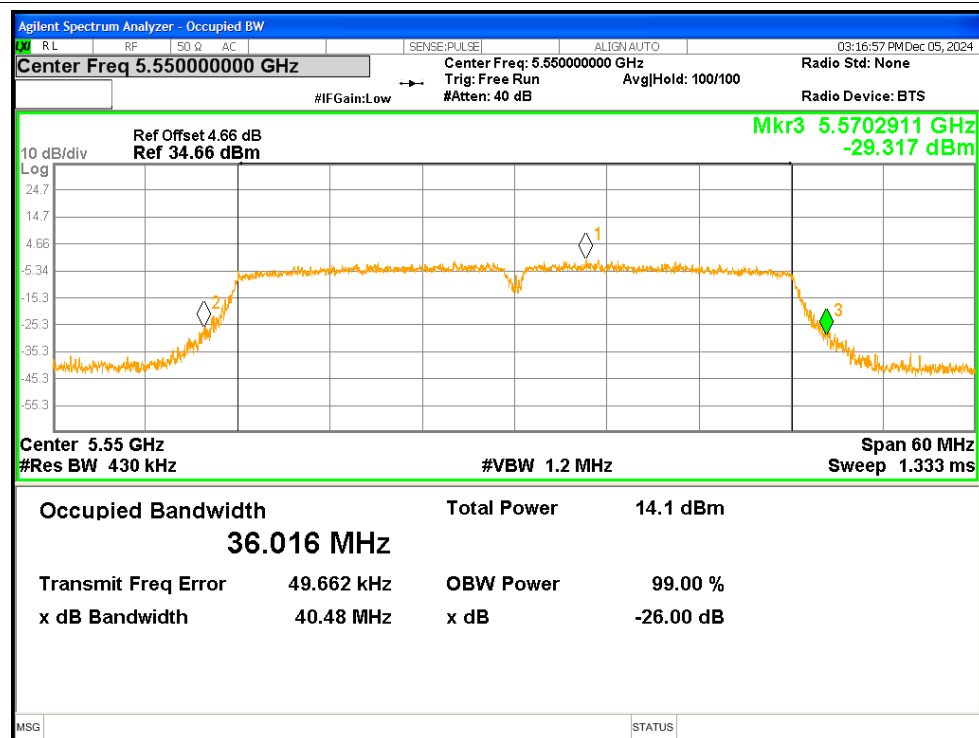
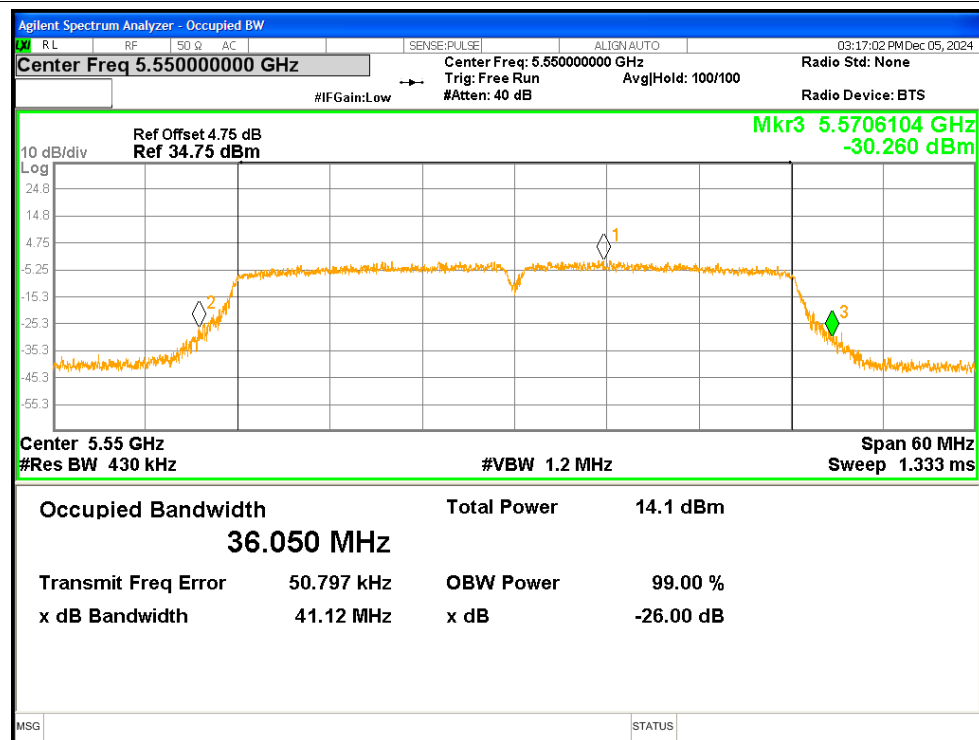
-26dB Bandwidth NVNT a 5580MHz Ant2**-26dB Bandwidth NVNT a 5700MHz Ant2**

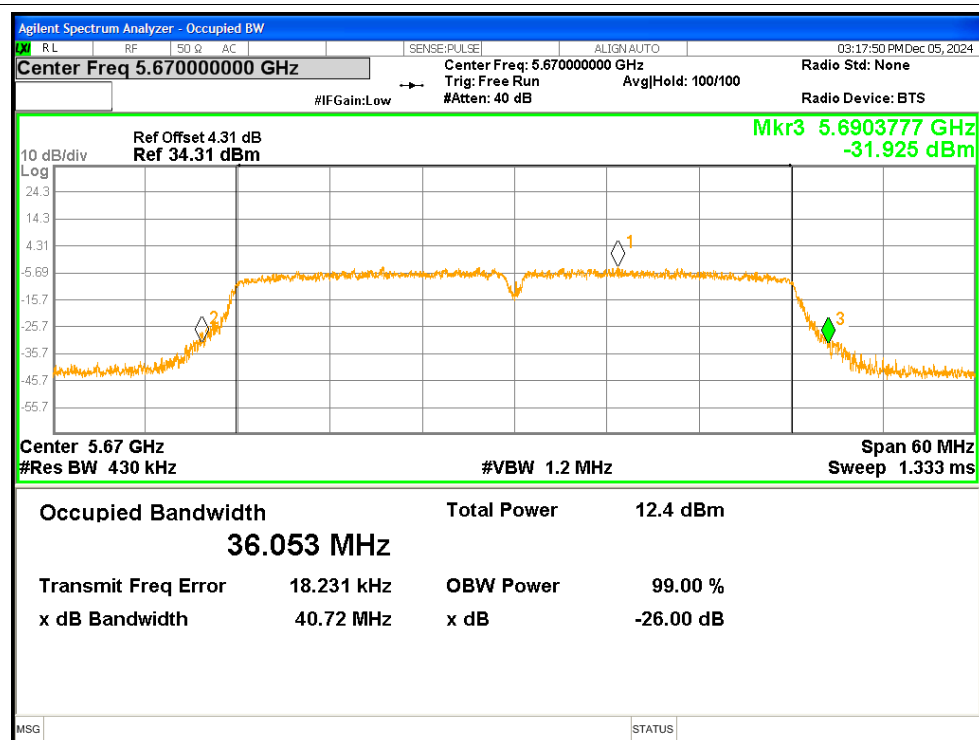
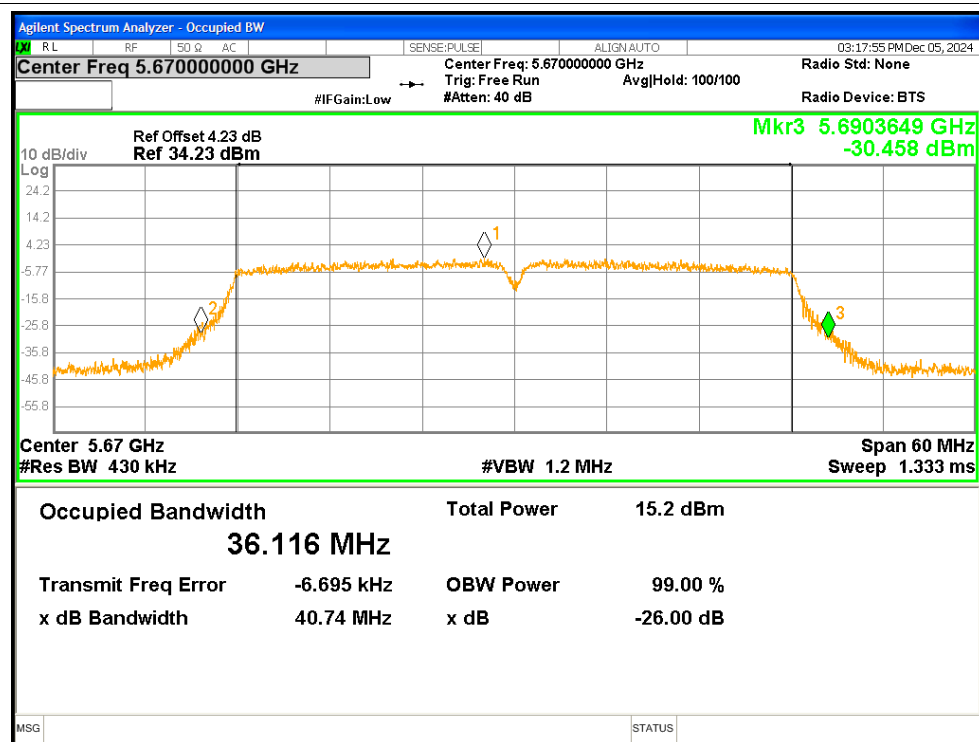
-26dB Bandwidth NVNT n20 5500MHz Ant1**-26dB Bandwidth NVNT n20 5500MHz Ant2**

-26dB Bandwidth NVNT n20 5580MHz Ant1**-26dB Bandwidth NVNT n20 5580MHz Ant2**

-26dB Bandwidth NVNT n20 5700MHz Ant1**-26dB Bandwidth NVNT n20 5700MHz Ant2**

-26dB Bandwidth NVNT n40 5510MHz Ant1**-26dB Bandwidth NVNT n40 5510MHz Ant2**

-26dB Bandwidth NVNT n40 5550MHz Ant1**-26dB Bandwidth NVNT n40 5550MHz Ant2**

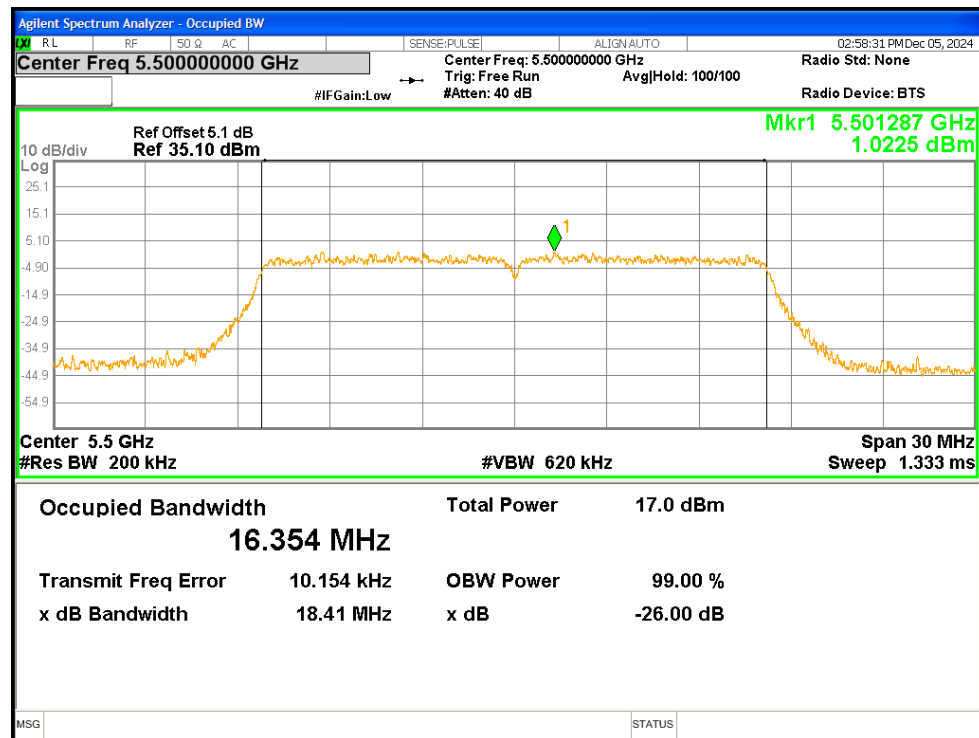
-26dB Bandwidth NVNT n40 5670MHz Ant1**-26dB Bandwidth NVNT n40 5670MHz Ant2**

4. Occupied Channel Bandwidth

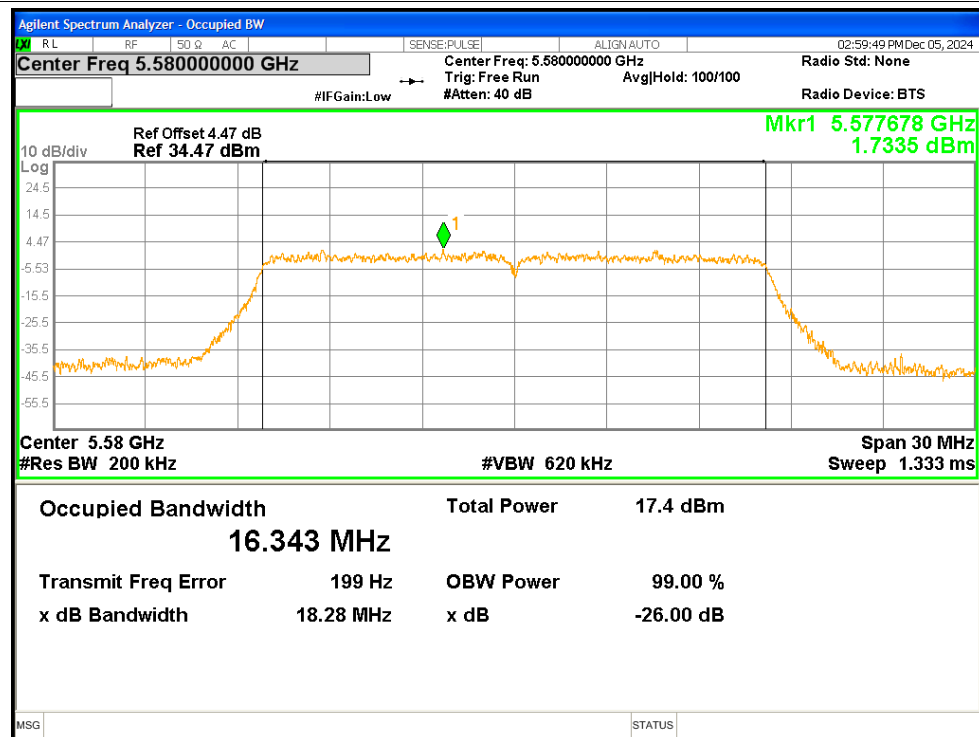
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5500	Ant1	16.3542
NVNT	a	5580	Ant1	16.3432
NVNT	a	5700	Ant1	16.3563
NVNT	a	5500	Ant2	16.353
NVNT	a	5580	Ant2	16.3367
NVNT	a	5700	Ant2	16.3286
NVNT	n20	5500	Ant1	17.5303
NVNT	n20	5500	Ant2	17.5468
NVNT	n20	5580	Ant1	17.5283
NVNT	n20	5580	Ant2	17.5327
NVNT	n20	5700	Ant1	17.5456
NVNT	n20	5700	Ant2	17.5276
NVNT	n40	5510	Ant1	36.048
NVNT	n40	5510	Ant2	36.1185
NVNT	n40	5550	Ant1	36.0121
NVNT	n40	5550	Ant2	36.0256
NVNT	n40	5670	Ant1	36.0781
NVNT	n40	5670	Ant2	36.0185

Test Graphs

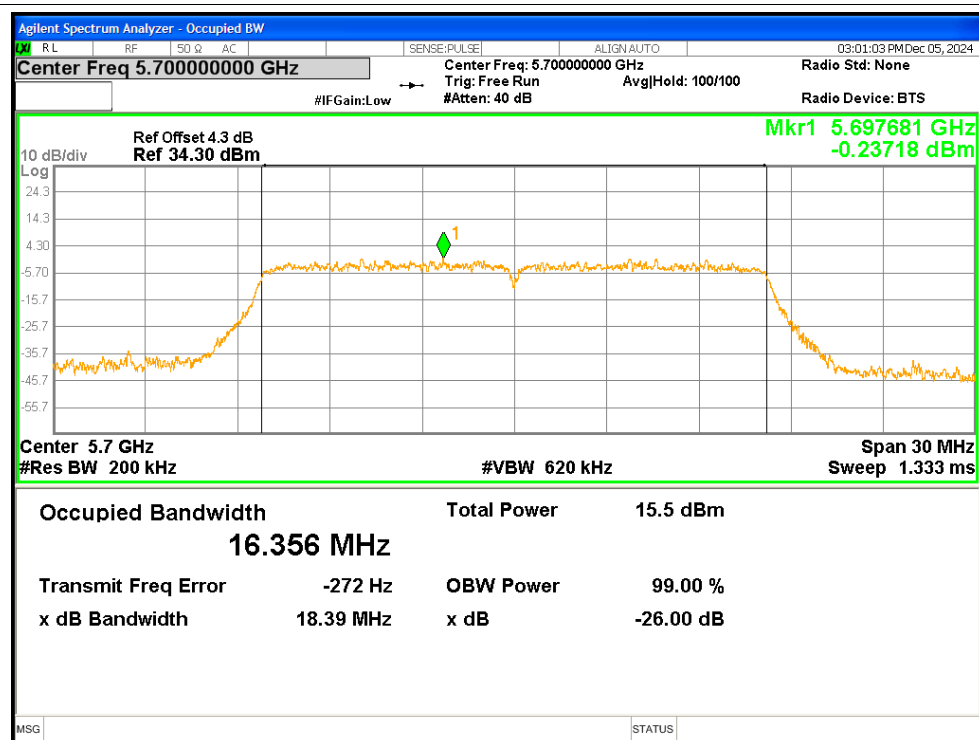
OBW NVNT a 5500MHz Ant1



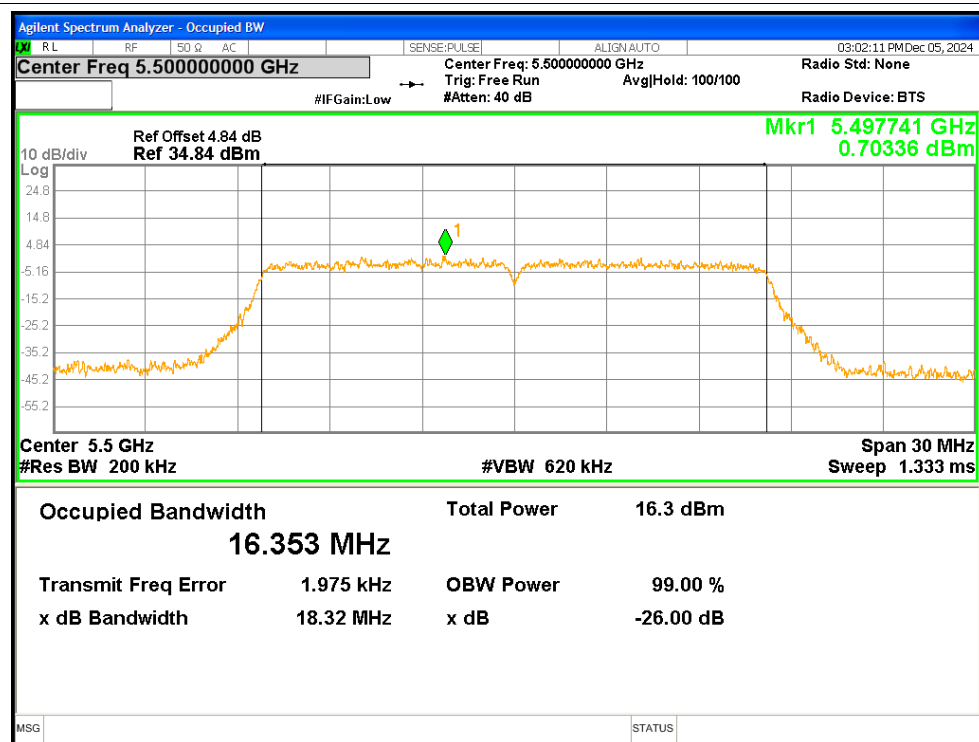
OBW NVNT a 5580MHz Ant1



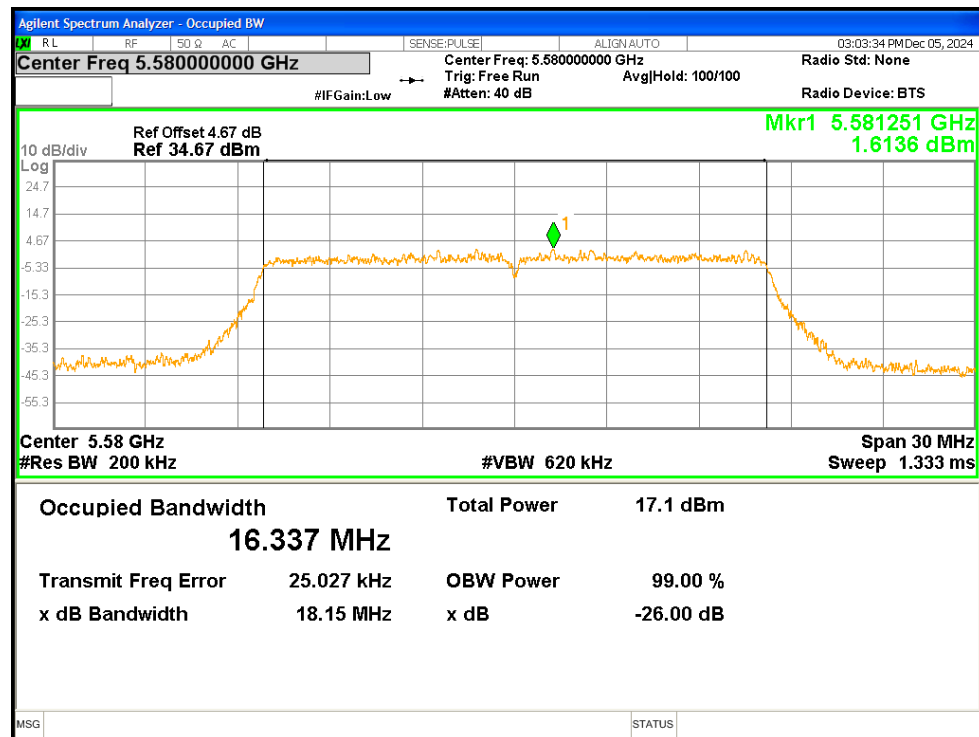
OBW NVNT a 5700MHz Ant1



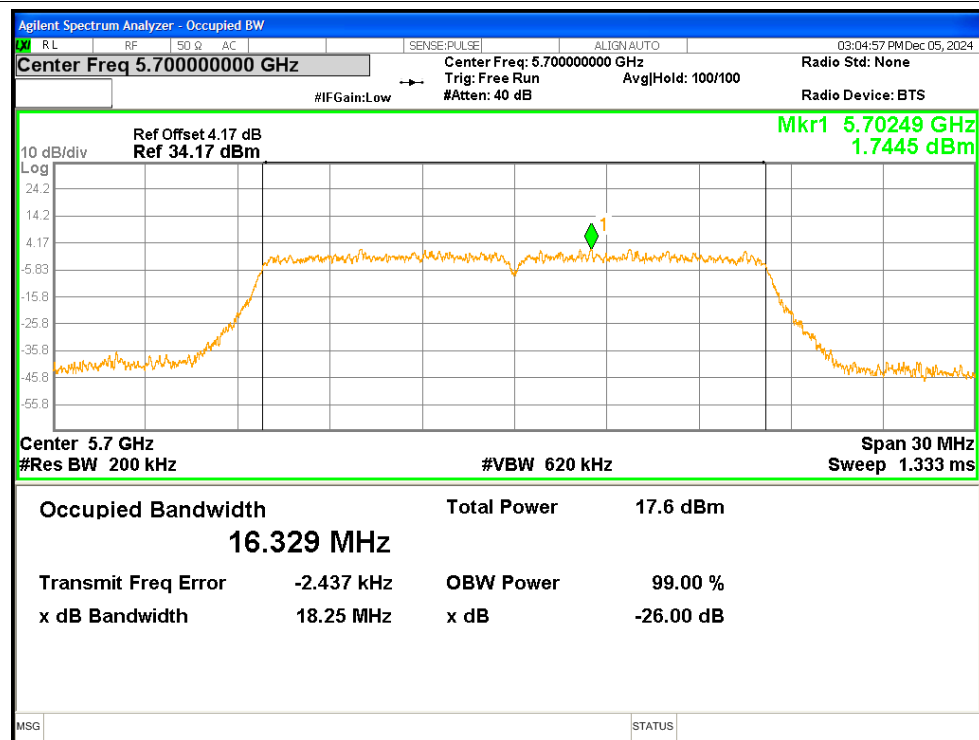
OBW NVNT a 5500MHz Ant2



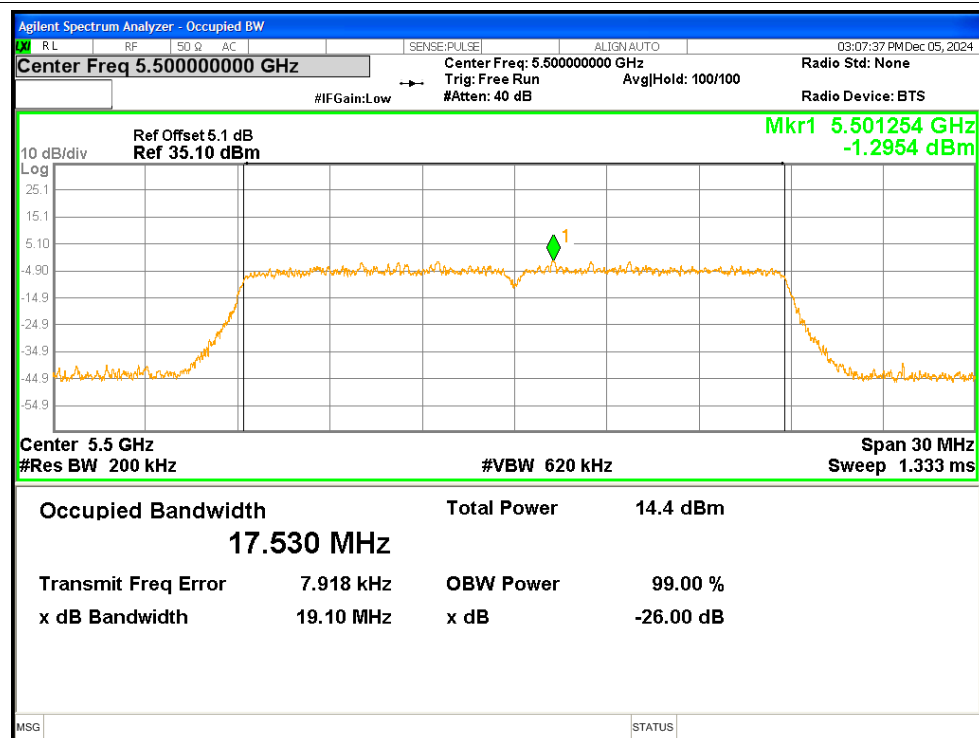
OBW NVNT a 5580MHz Ant2



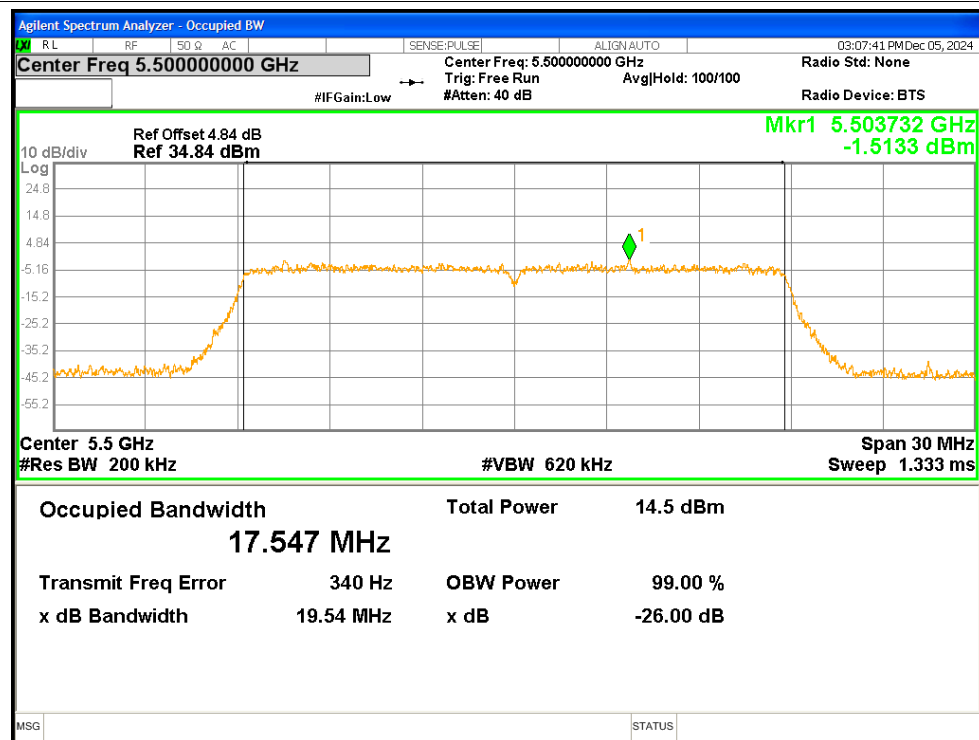
OBW NVNT a 5700MHz Ant2



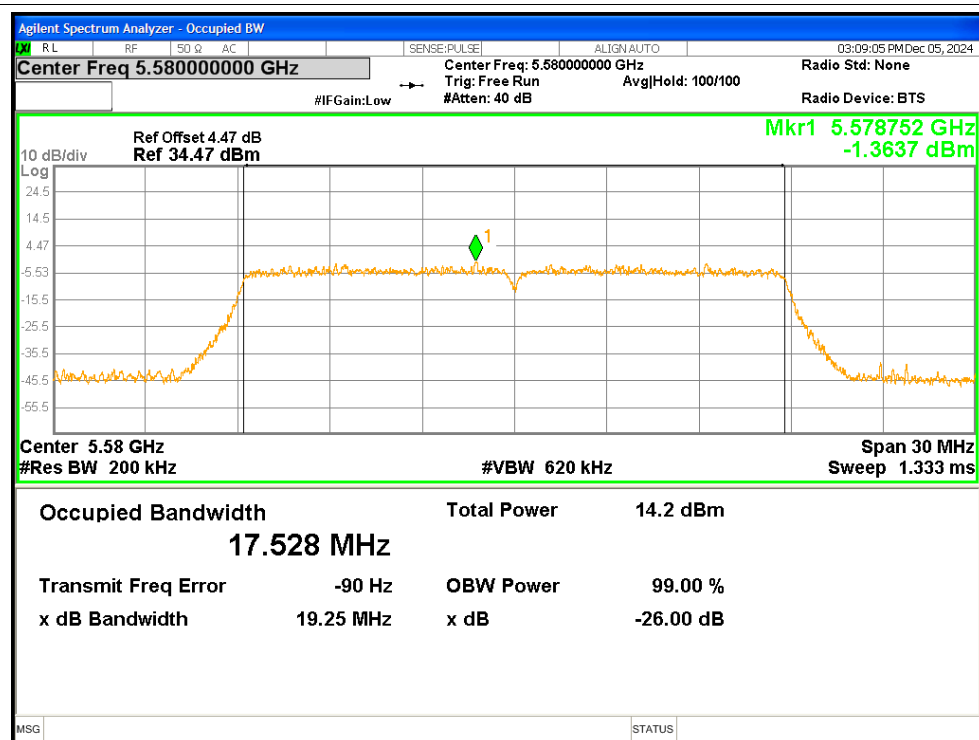
OBW NVNT n20 5500MHz Ant1



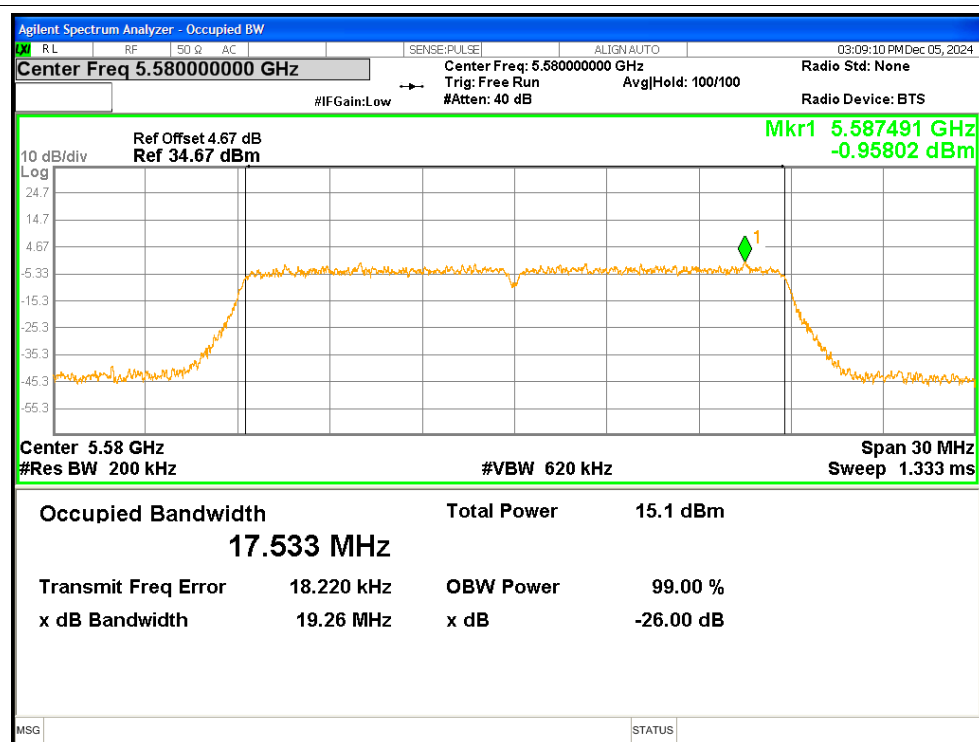
OBW NVNT n20 5500MHz Ant2



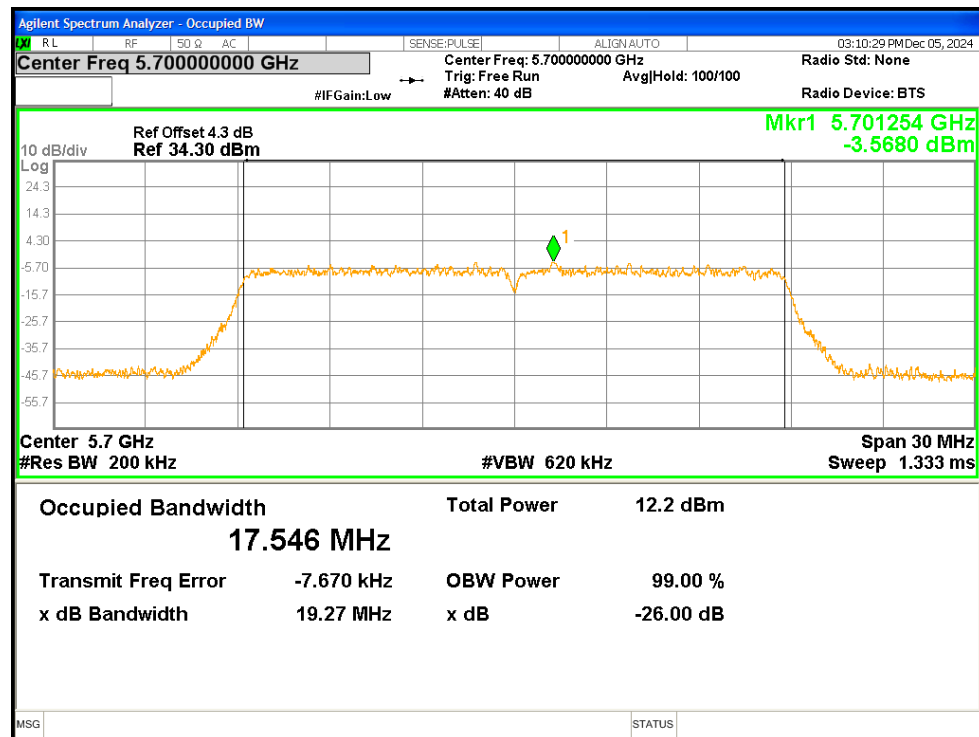
OBW NVNT n20 5580MHz Ant1



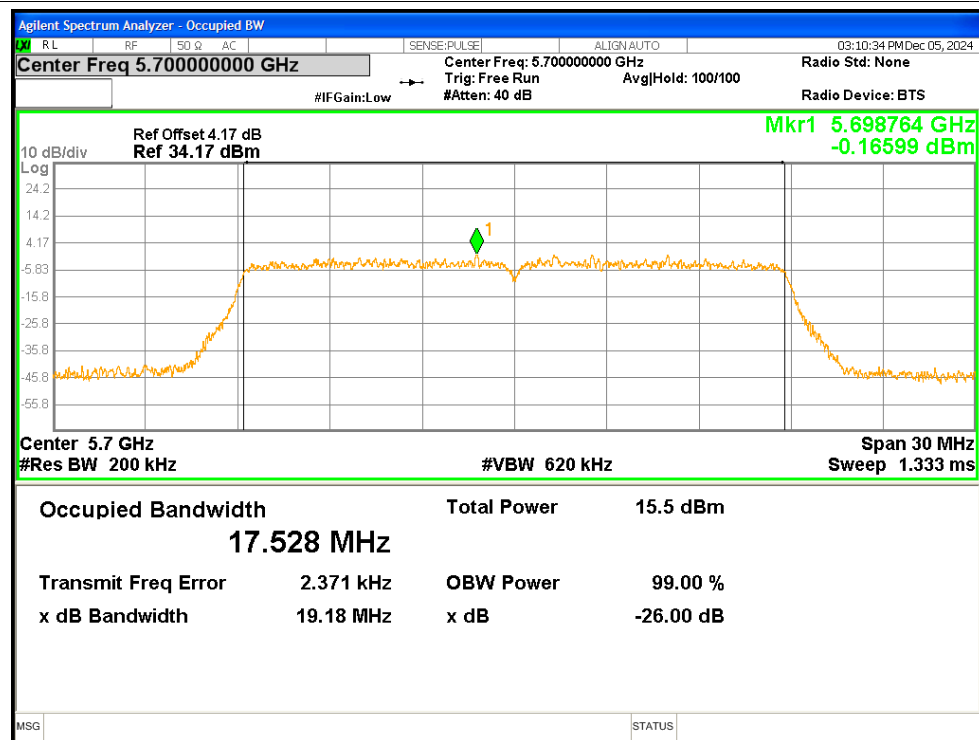
OBW NVNT n20 5580MHz Ant2



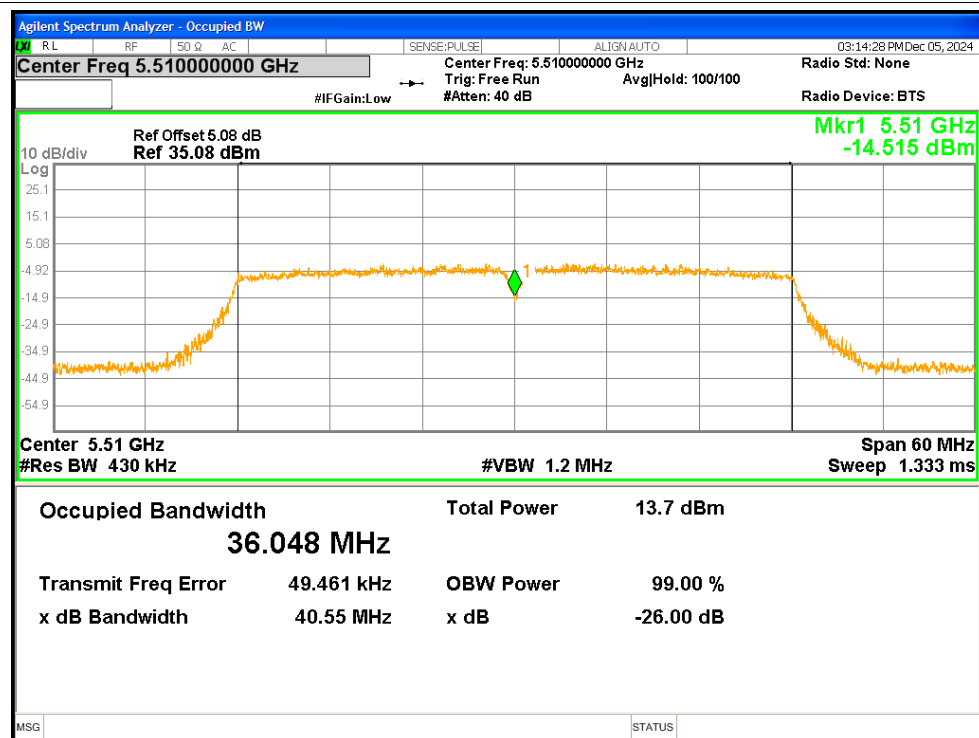
OBW NVNT n20 5700MHz Ant1



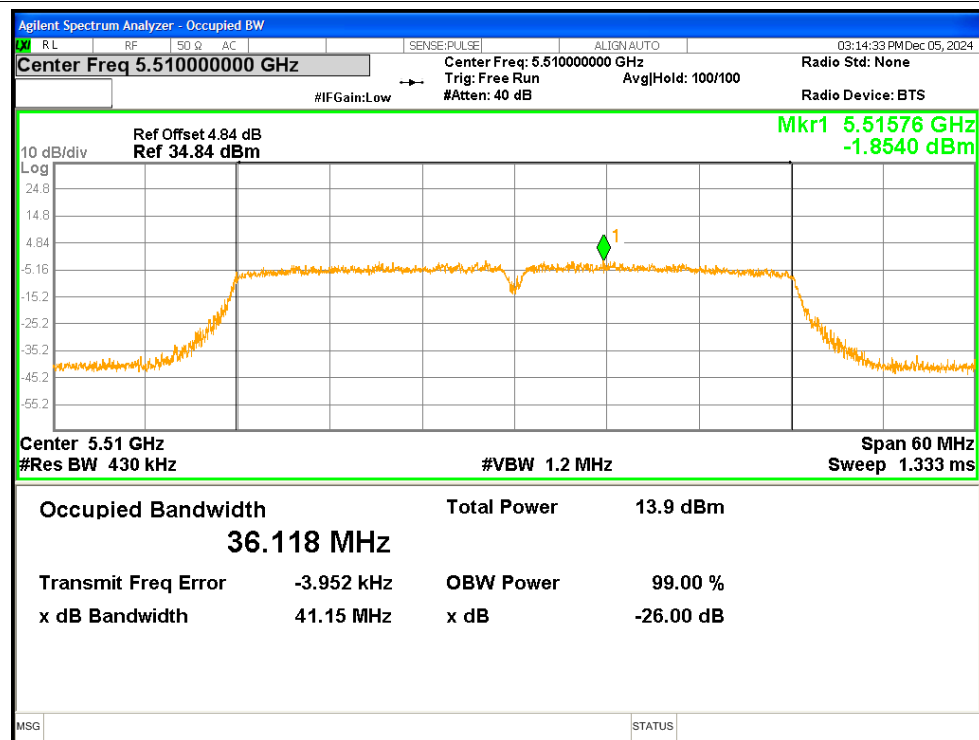
OBW NVNT n20 5700MHz Ant2



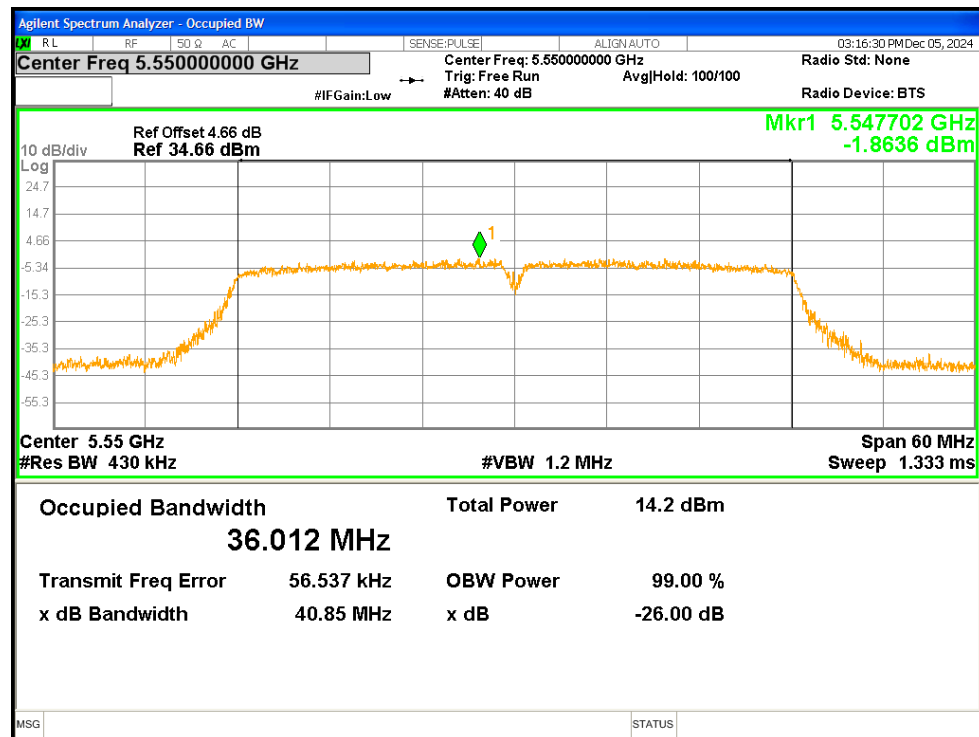
OBW NVNT n40 5510MHz Ant1



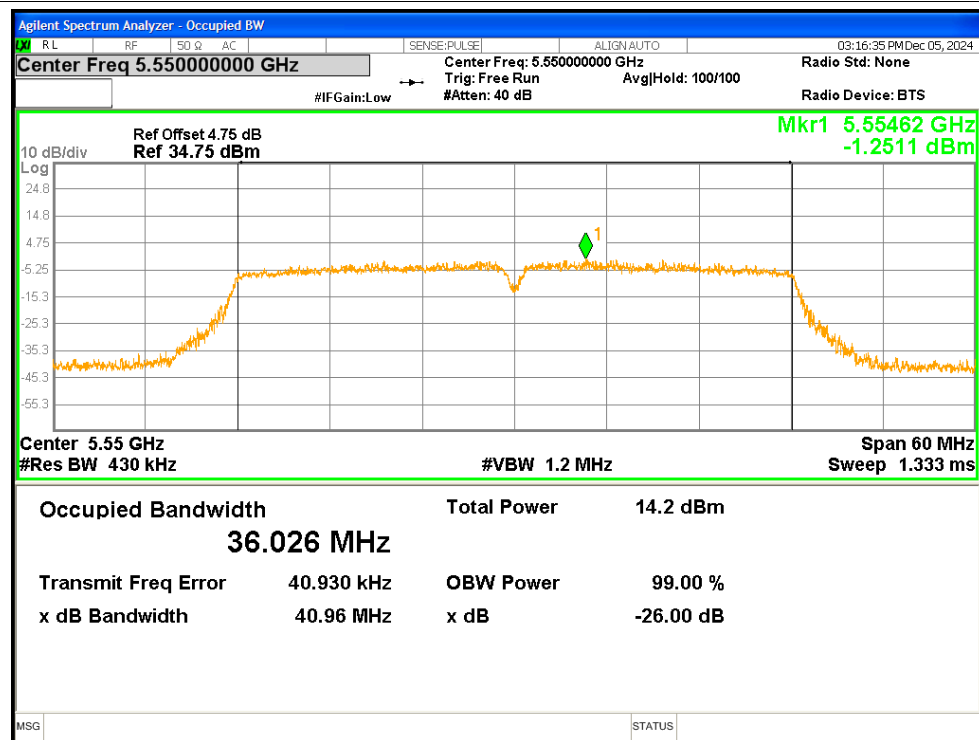
OBW NVNT n40 5510MHz Ant2



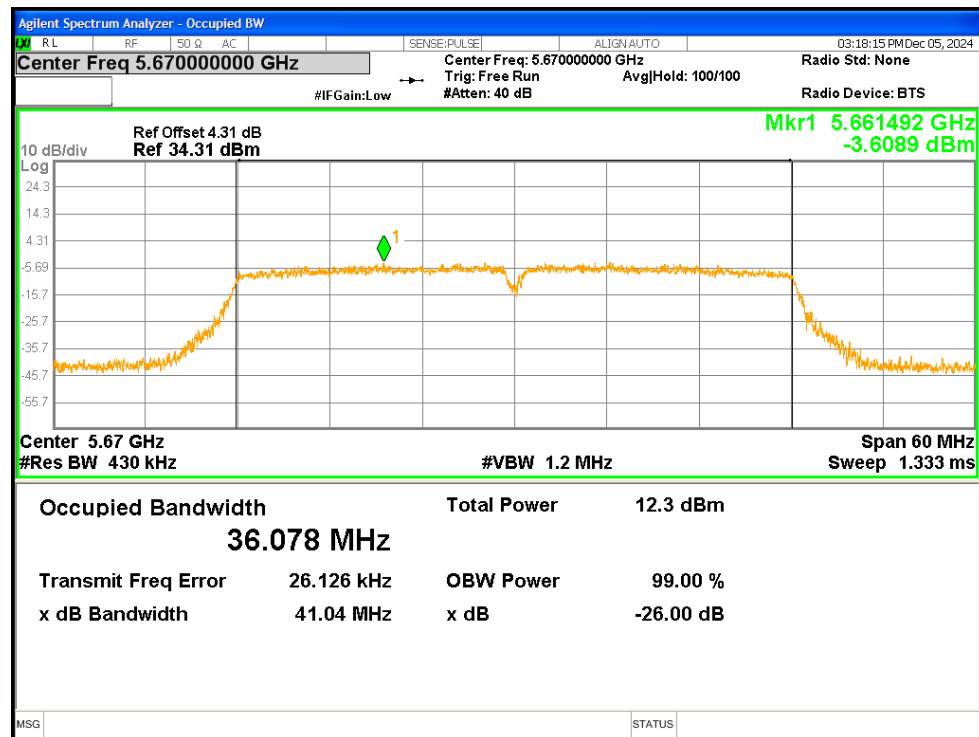
OBW NVNT n40 5550MHz Ant1



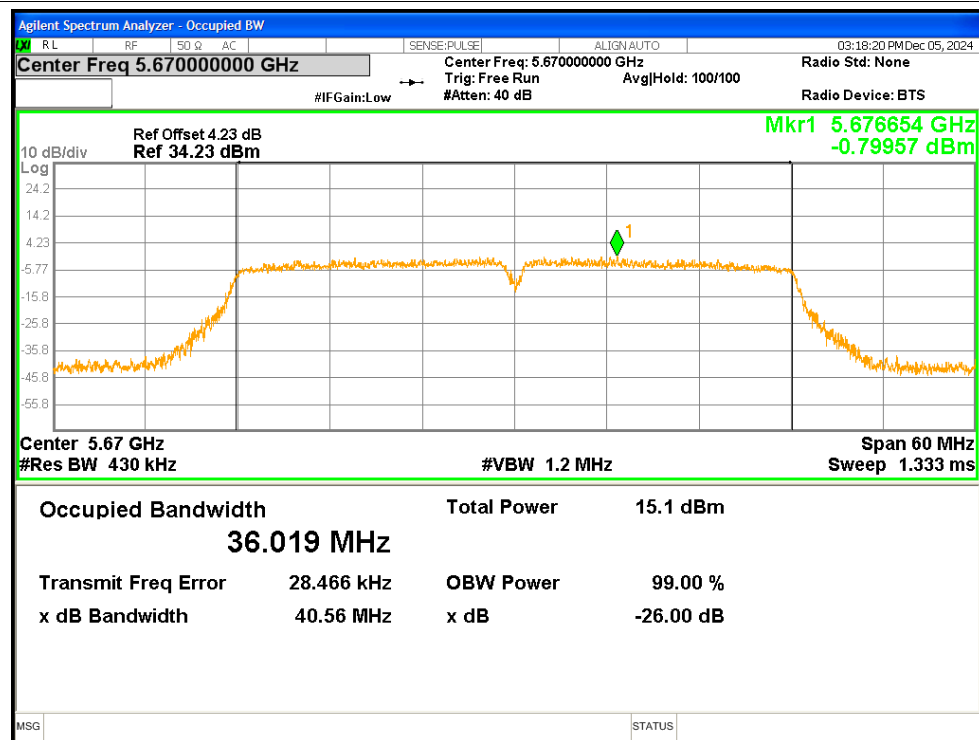
OBW NVNT n40 5550MHz Ant2



OBW NVNT n40 5670MHz Ant1



OBW NVNT n40 5670MHz Ant2

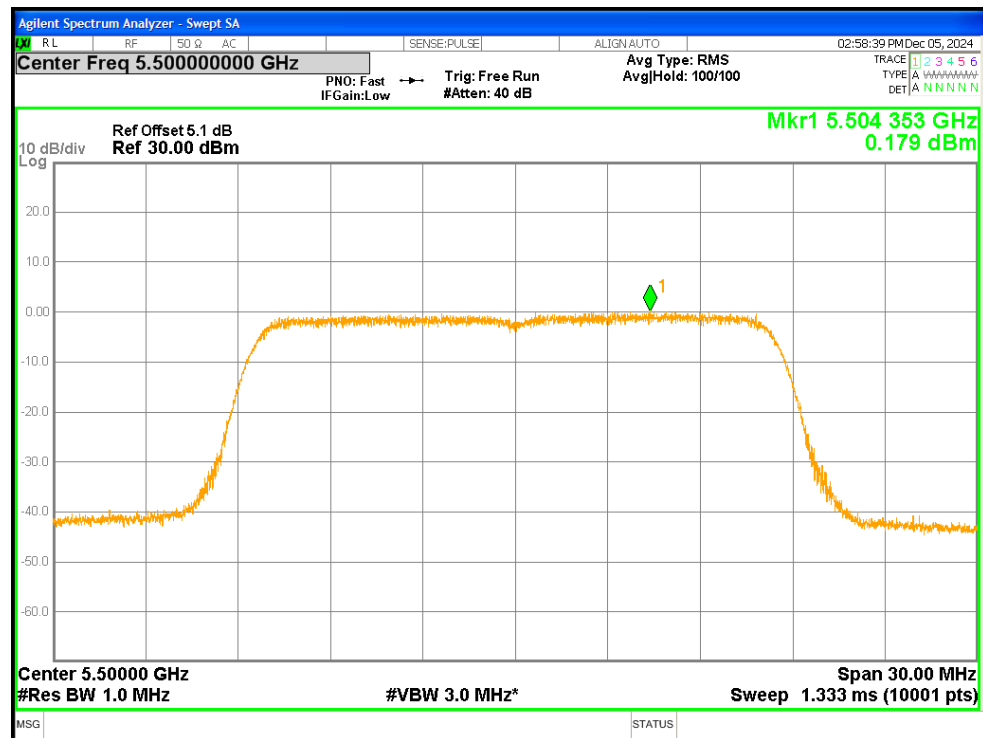


5. Maximum Power Spectral Density Level

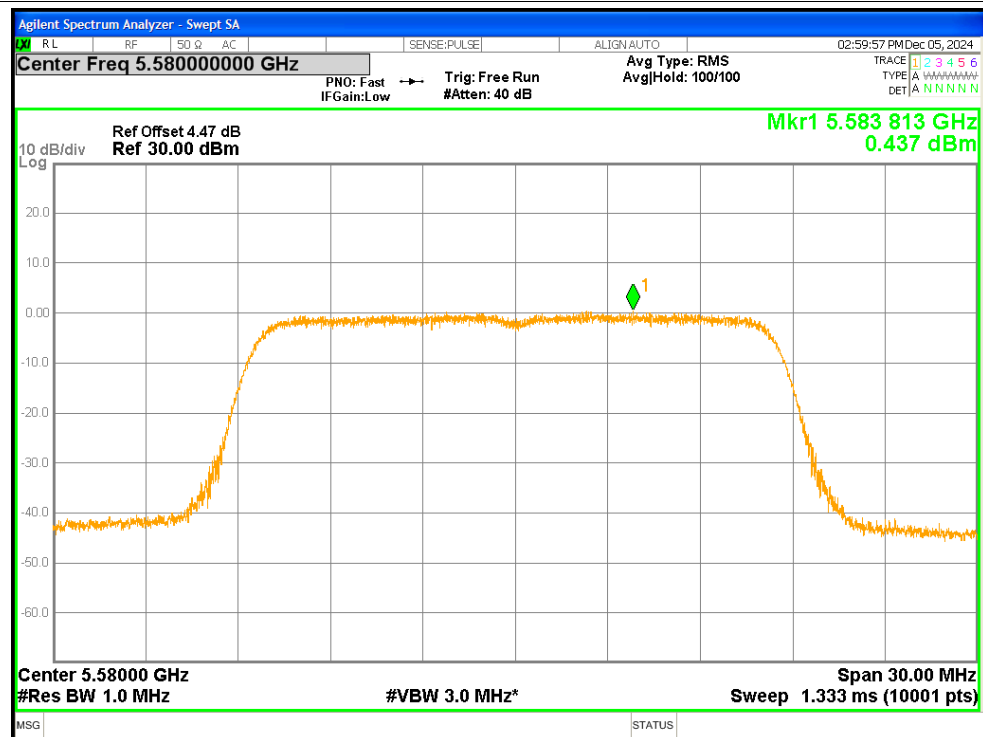
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	a	5500	Ant1	0.179	1.36	1.539	<=11	Pass
NVNT	a	5580	Ant1	0.437	1.36	1.797	<=11	Pass
NVNT	a	5700	Ant1	-1.164	1.36	0.196	<=11	Pass
NVNT	a	5500	Ant2	-0.572	1.36	0.788	<=11	Pass
NVNT	a	5580	Ant2	-0.002	1.36	1.358	<=11	Pass
NVNT	a	5700	Ant2	0.571	1.36	1.931	<=11	Pass
NVNT	n20	5500	Ant1	-2.899	1.44	-1.459	<=11	Pass
NVNT	n20	5500	Ant2	-2.873	1.44	-1.433	<=11	Pass
NVNT	n20	5500	Sum	0.124	1.44	1.564	<=8.19	Pass
NVNT	n20	5580	Ant1	-3.397	1.44	-1.957	<=11	Pass
NVNT	n20	5580	Ant2	-2.147	1.44	-0.707	<=11	Pass
NVNT	n20	5580	Sum	0.283	1.44	1.723	<=8.19	Pass
NVNT	n20	5700	Ant1	-5.082	1.44	-3.642	<=11	Pass
NVNT	n20	5700	Ant2	-2.099	1.44	-0.659	<=11	Pass
NVNT	n20	5700	Sum	-0.329	1.44	1.111	<=8.19	Pass
NVNT	n40	5510	Ant1	-6.908	2.53	-4.378	<=11	Pass
NVNT	n40	5510	Ant2	-6.531	2.53	-4.001	<=11	Pass
NVNT	n40	5510	Sum	-3.705	2.53	-1.175	<=8.19	Pass
NVNT	n40	5550	Ant1	-6.496	2.52	-3.976	<=11	Pass
NVNT	n40	5550	Ant2	-6.48	2.52	-3.96	<=11	Pass
NVNT	n40	5550	Sum	-3.478	2.52	-0.958	<=8.19	Pass
NVNT	n40	5670	Ant1	-8.591	2.53	-6.061	<=11	Pass
NVNT	n40	5670	Ant2	-5.45	2.53	-2.92	<=11	Pass
NVNT	n40	5670	Sum	-3.732	2.53	-1.202	<=8.19	Pass

Test Graphs

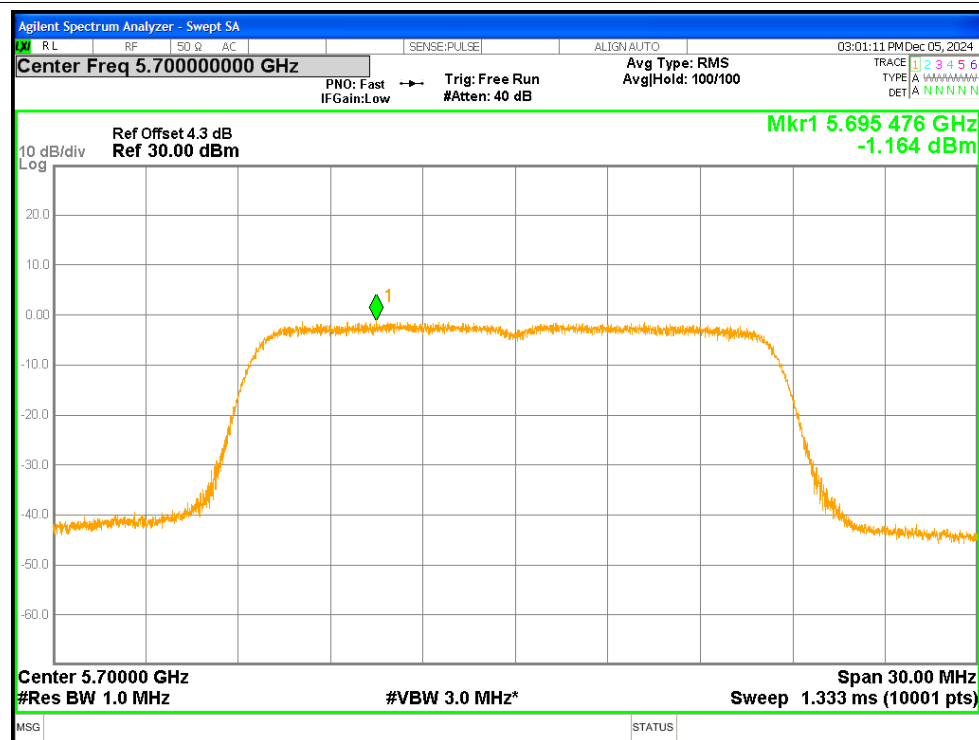
PSD NVNT a 5500MHz Ant1



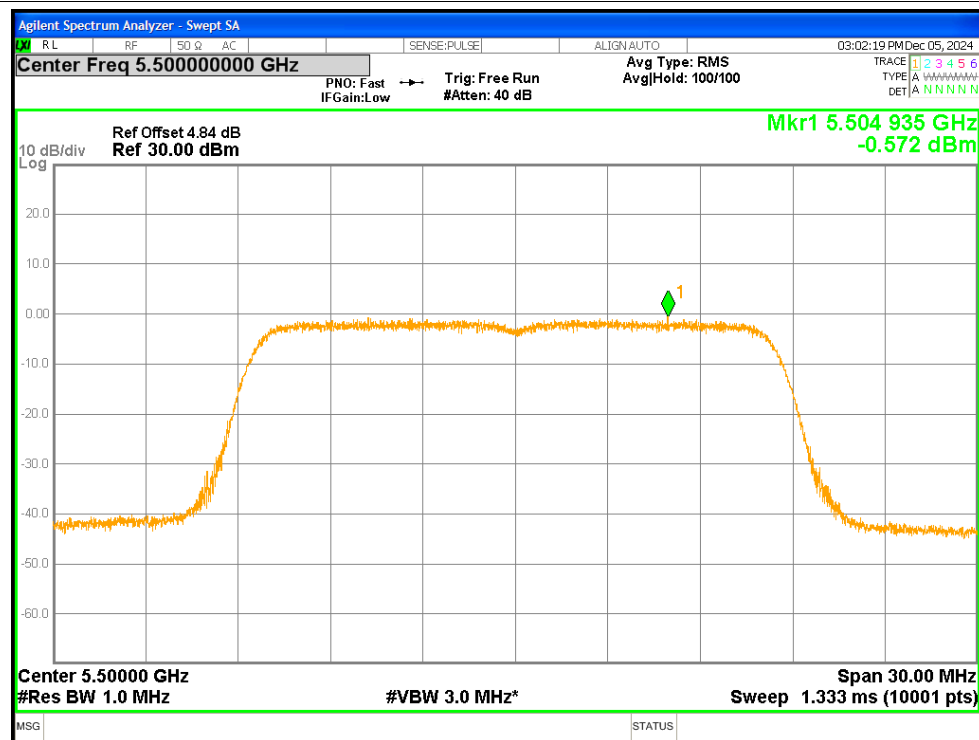
PSD NVNT a 5580MHz Ant1



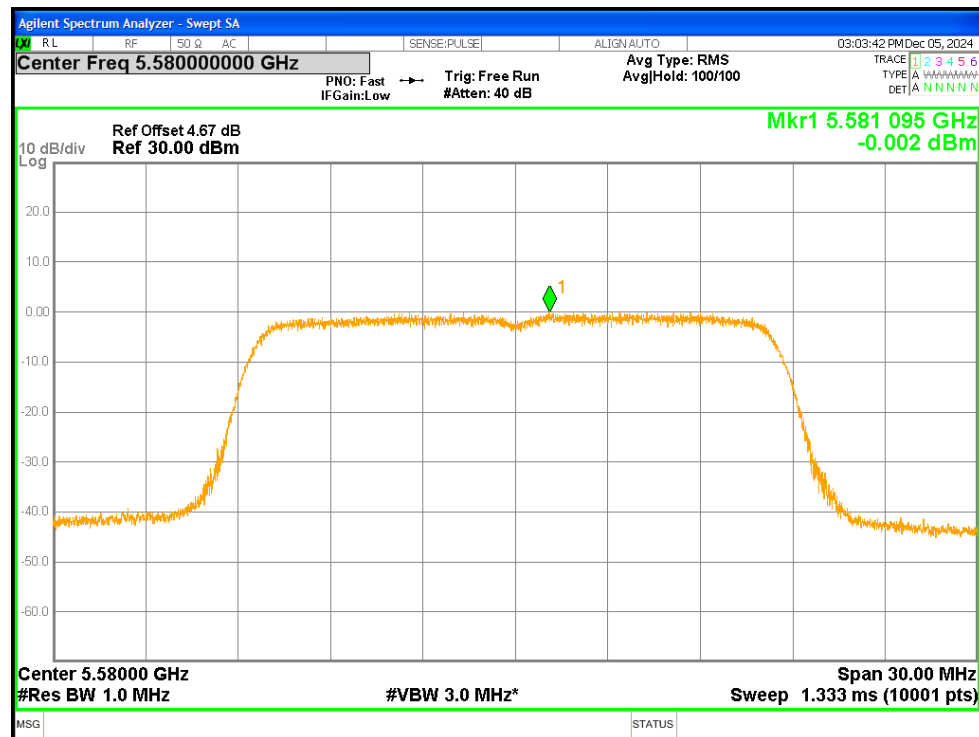
PSD NVNT a 5700MHz Ant1



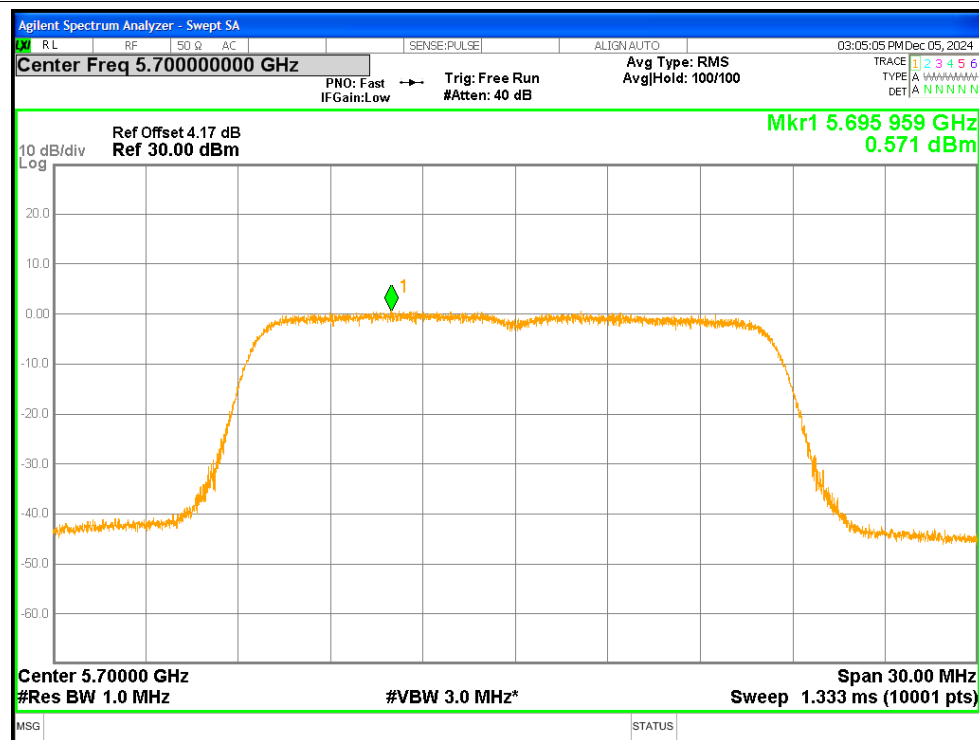
PSD NVNT a 5500MHz Ant2



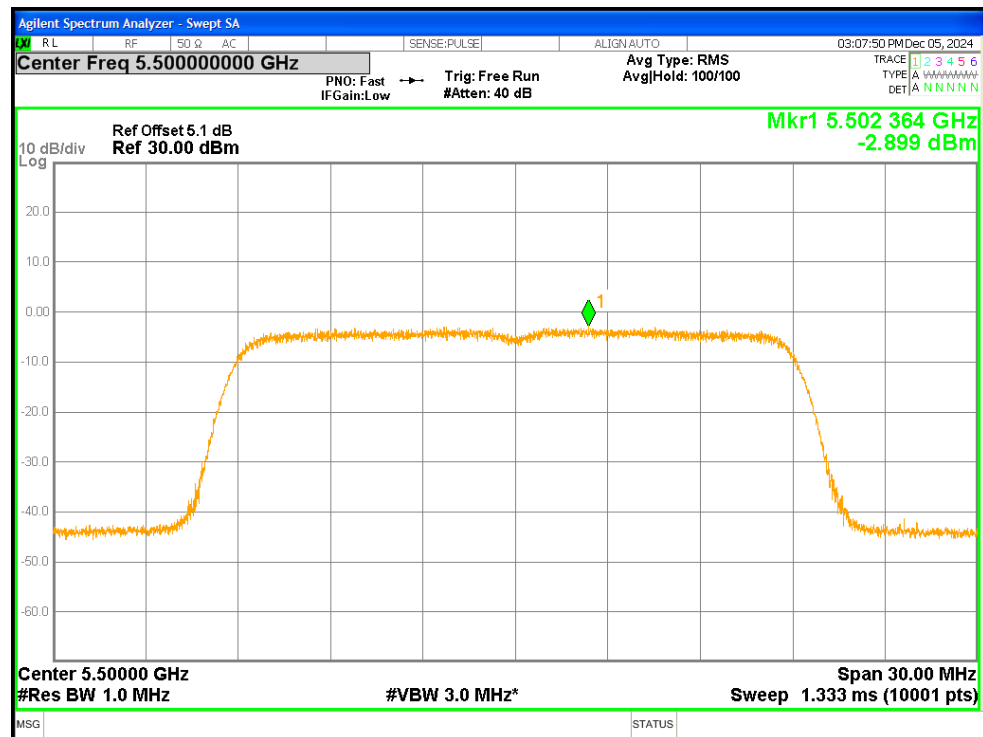
PSD NVNT a 5580MHz Ant2



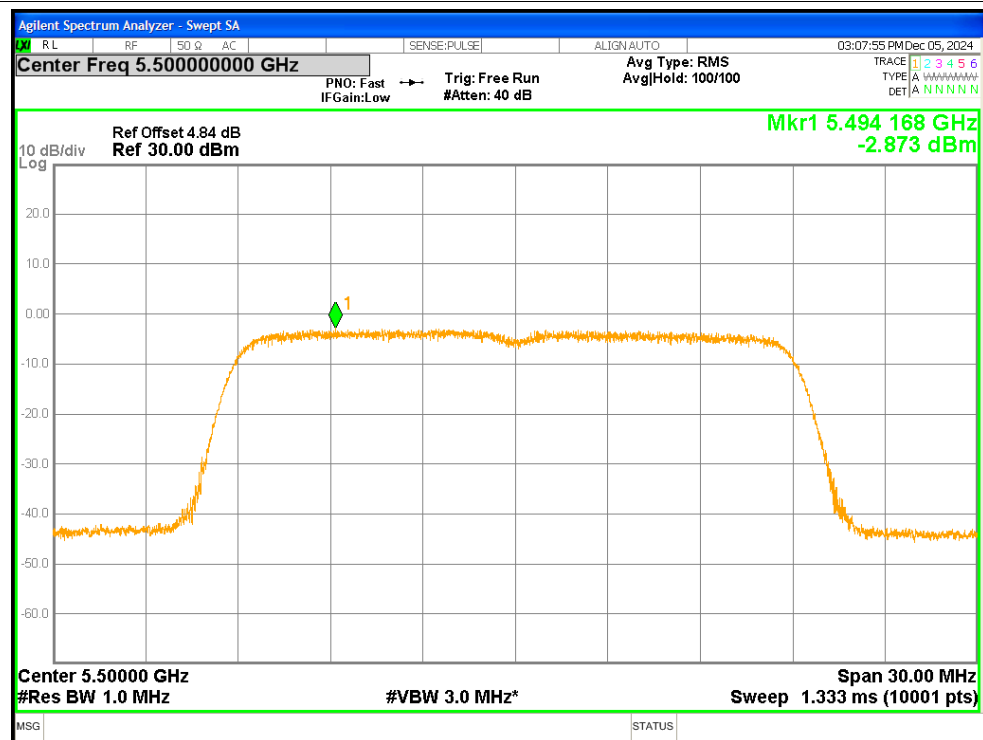
PSD NVNT a 5700MHz Ant2



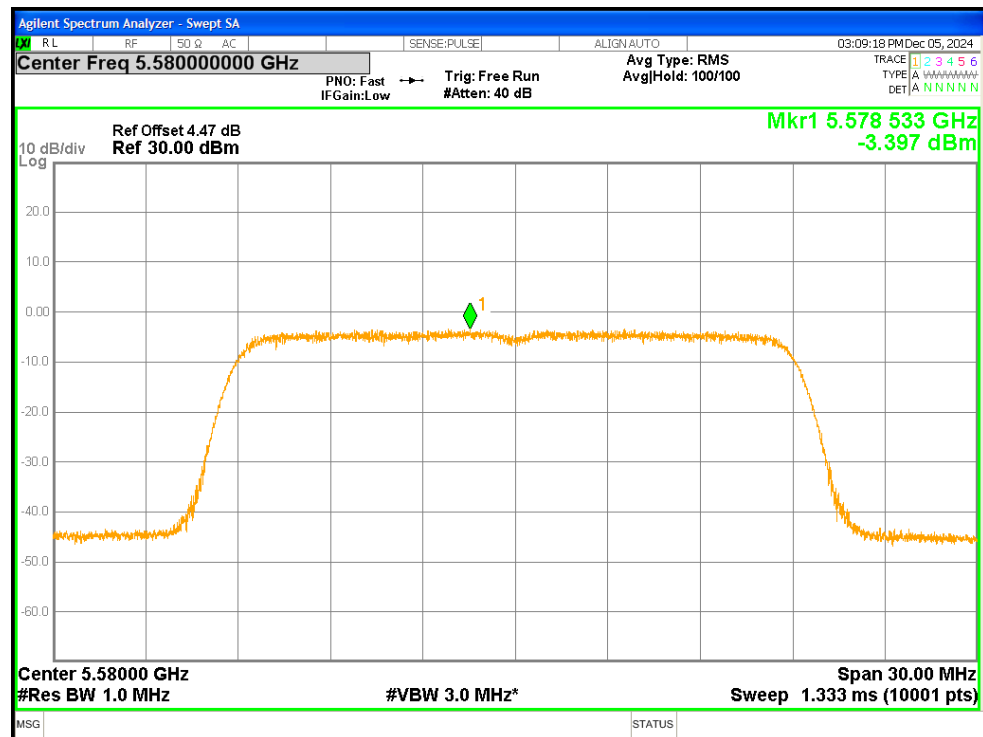
PSD NVNT n20 5500MHz Ant1



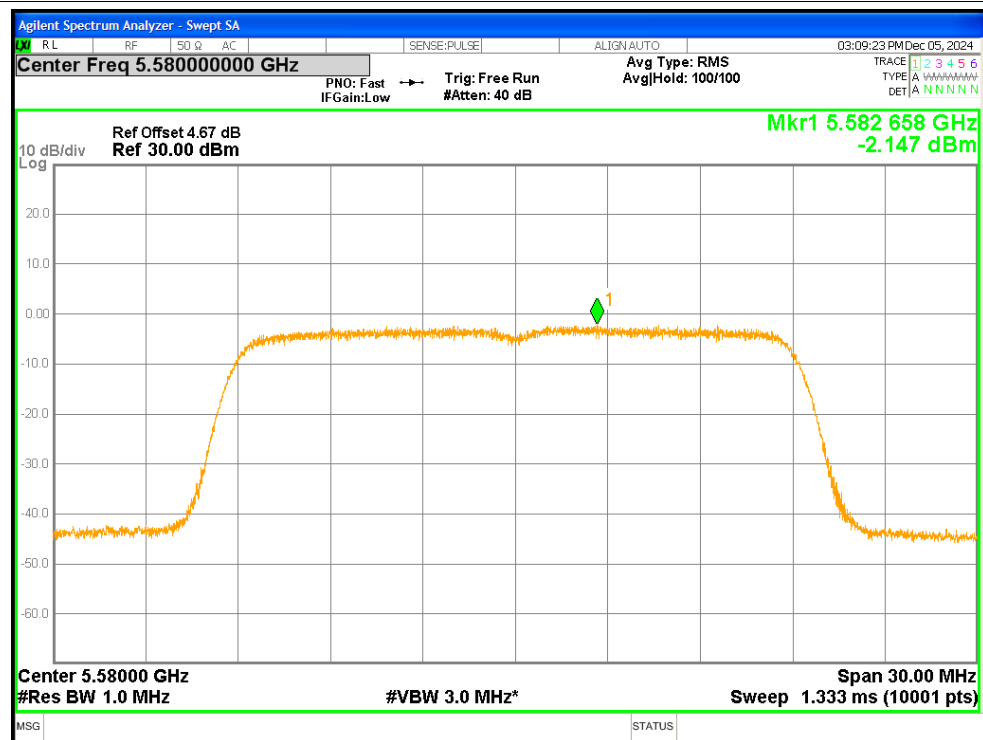
PSD NVNT n20 5500MHz Ant2



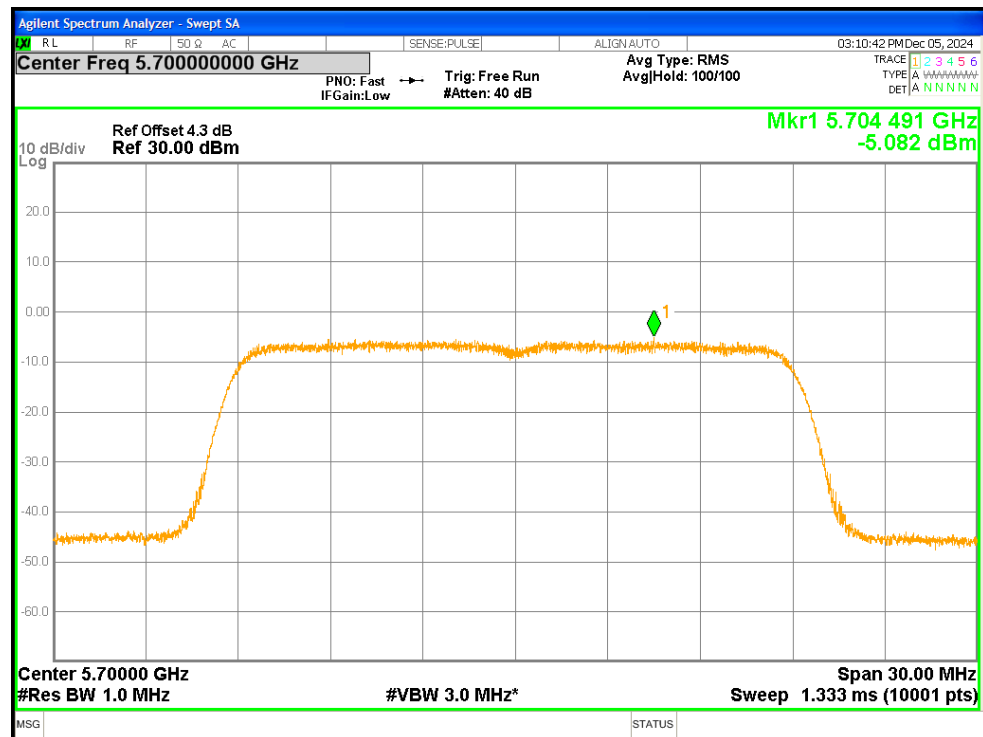
PSD NVNT n20 5580MHz Ant1



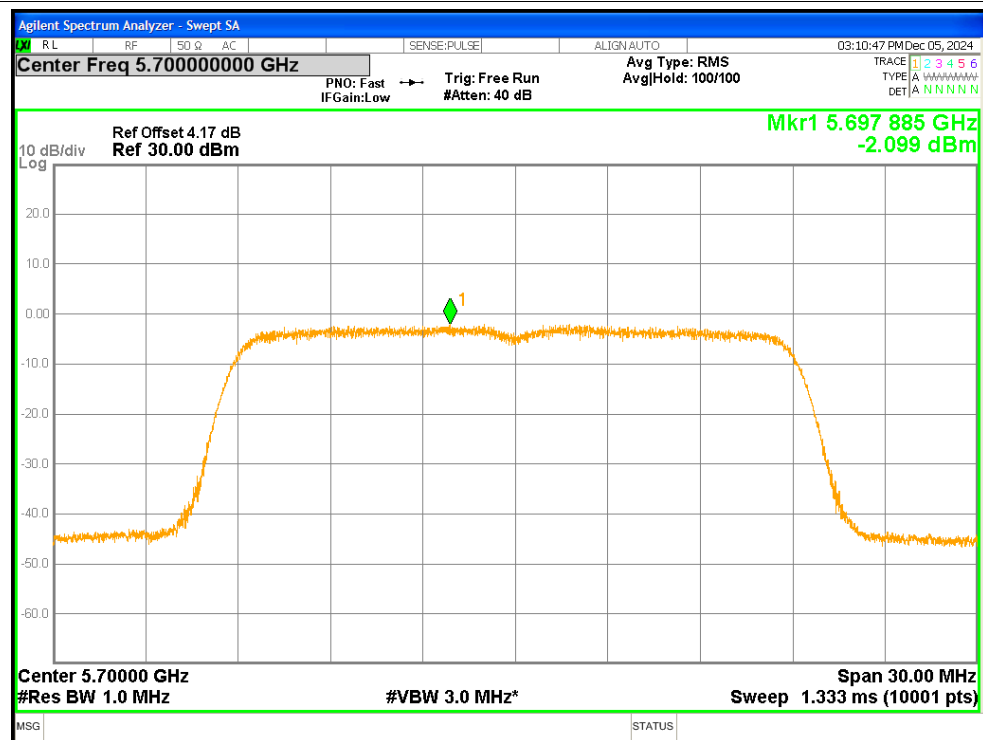
PSD NVNT n20 5580MHz Ant2



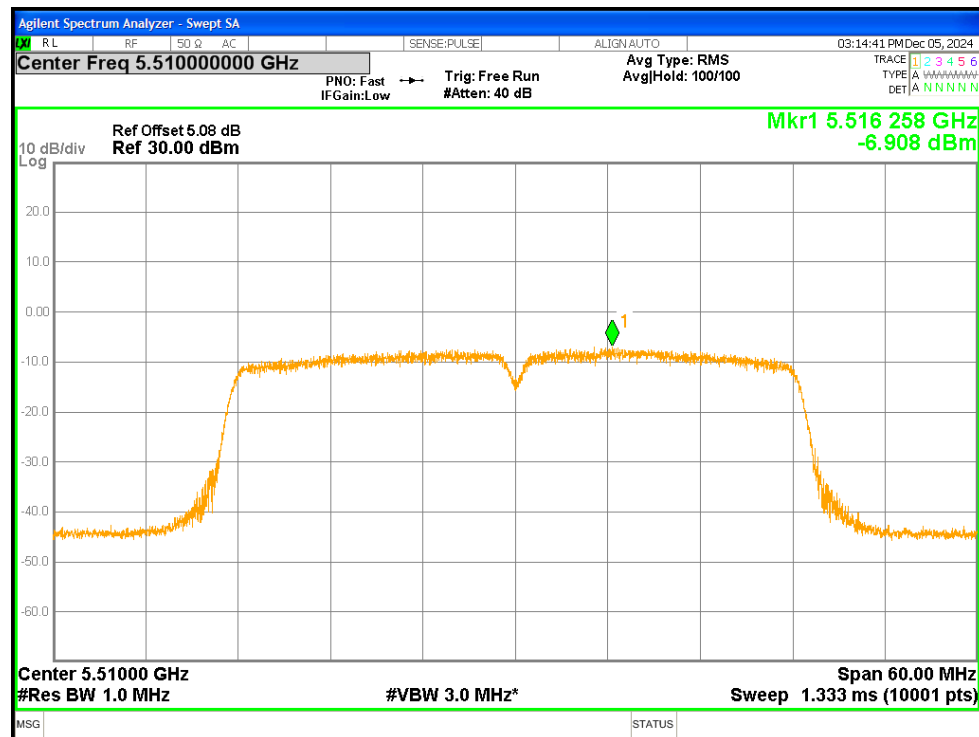
PSD NVNT n20 5700MHz Ant1



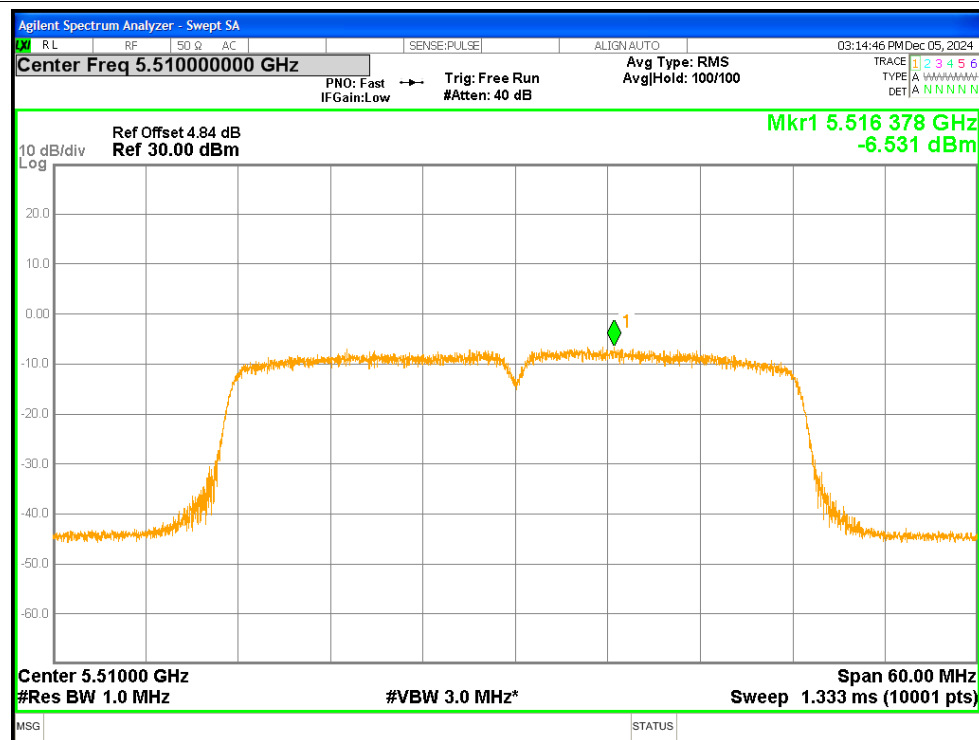
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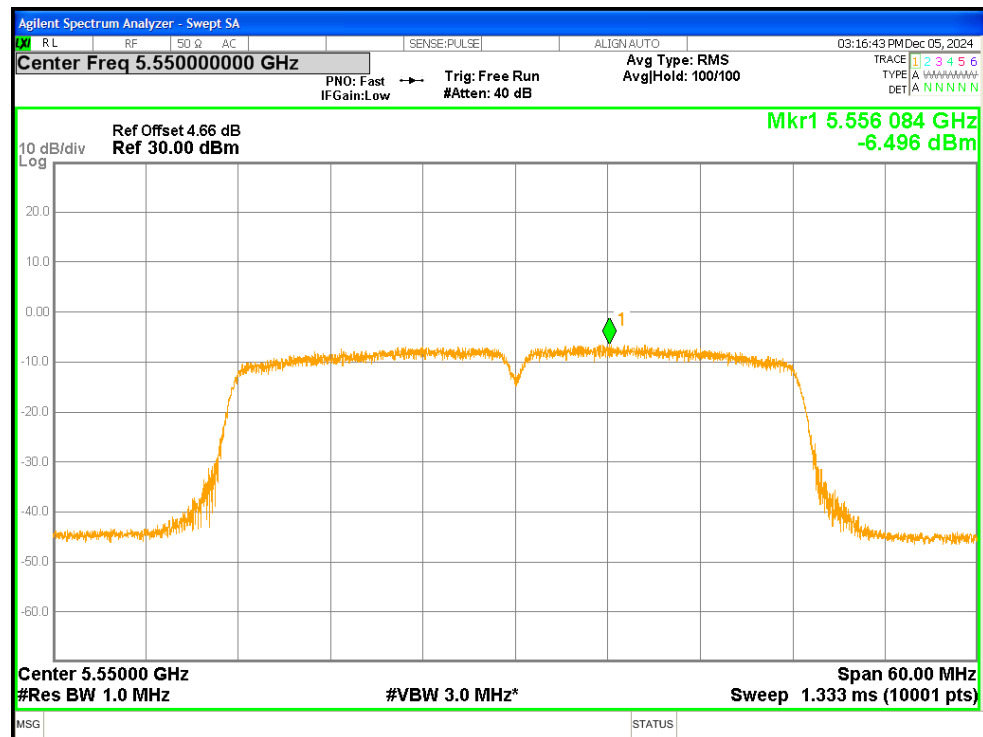
PSD NVNT n40 5510MHz Ant1



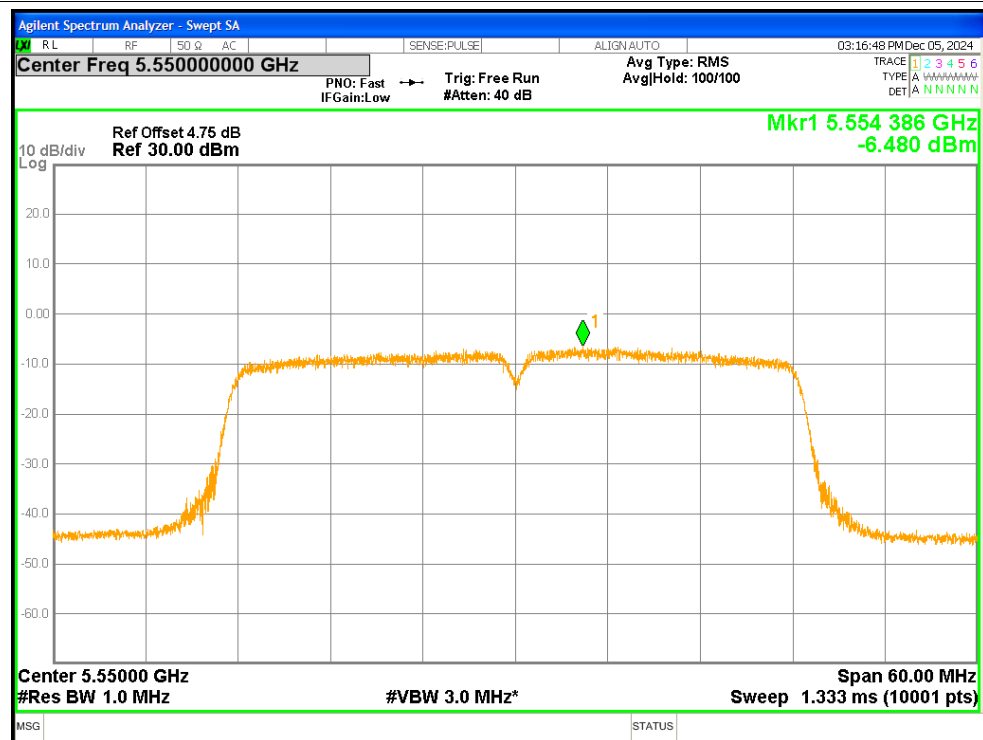
PSD NVNT n40 5510MHz Ant2



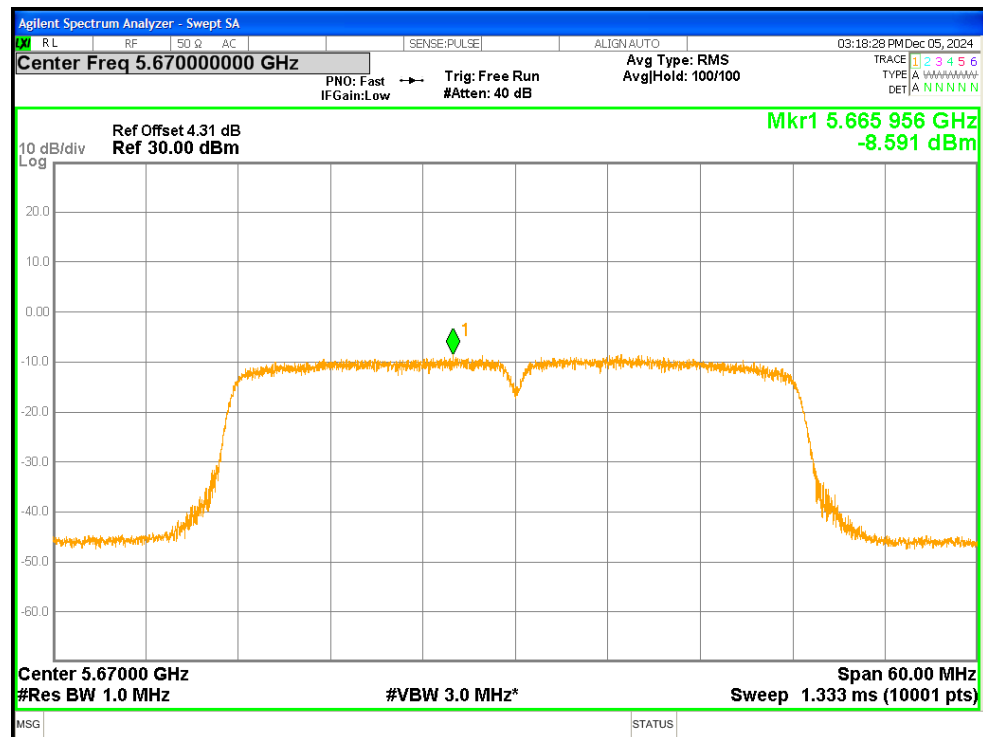
PSD NVNT n40 5550MHz Ant1



PSD NVNT n40 5550MHz Ant2



PSD NVNT n40 5670MHz Ant1



PSD NVNT n40 5670MHz Ant2

