

1. Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	a	5745	Ant1	73.09	1.36	0.73
NVNT	a	5785	Ant1	73.11	1.36	0.73
NVNT	a	5825	Ant1	73.15	1.36	0.73
NVNT	a	5745	Ant2	73.09	1.36	0.73
NVNT	a	5785	Ant2	73.09	1.36	0.73
NVNT	a	5825	Ant2	73.15	1.36	0.73
NVNT	n20	5745	Sum	71.79	1.44	0.78
NVNT	n20	5785	Sum	71.79	1.44	0.79
NVNT	n20	5825	Sum	71.79	1.44	0.78
NVNT	n40	5755	Sum	55.93	2.52	1.58
NVNT	n40	5795	Sum	55.93	2.52	1.58

Duty Cycle NVNT a 5825MHz Ant1

Agilent Spectrum Analyzer - Sweep SA

Center Freq 5.82500000 GHz

Ref Offset 4.54 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 380.0 μ s
-4.72 dBm

Center 5.82500000 GHz
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	380.0 μ s	-4.72 dBm			
2	N	1	t	880.0 μ s	-20.66 dBm			
3	N	1	t	2.242 ms	-2.15 dBm			

Duty Cycle NVNT a 5745MHz Ant2

Center Freq 5.74500000 GHz

Ref Offset 4.17 dB
Ref 20.00 dBm

Mkr1 1.217 ms
-2.49 dBm

Center 5.74500000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 10.00 ms (10001 pts)
Span 0 Hz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.217 ms	-2.49 dBm			
2	N	1	t	1.718 ms	-6.60 dBm			
3	N	1	t	3.079 ms	-2.32 dBm			

Duty Cycle NVNT n20 5745MHz Sum

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.745000000 GHz

Ref Offset 4.32 dB
Ref 20.00 dBm

10 dB/div
Log

Mkr1 447.0 μ s
-10.77 dBm

Center 5.745000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 5.000 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	447.0 μ s	-10.77 dBm			
2	N	1	t	947.5 μ s	-22.75 dBm			
3	N	1	t	2.222 ms	-16.77 dBm			

Duty Cycle NVNT n20 5785MHz Sum

Agilent Spectrum Analyzer - Swept SA
03:45:05 PM Dec 05, 2024

Center Freq 5.785000000 GHz
RL RF 50 Ω AC

SENSE: PULSE
ALIGN: AUTO

PN0: Fast IF Gain: Low → **Trig: Free Run**
#Atten: 30 dB

Avg Type: Log-Pwr
TRACE 1 2 3 4 5 6
TYPE W W W W W W
DET P N N N N N

Ref Offset 4.33 dB
Ref 20.00 dBm

Mkr1 221.0 μs
-19.75 dBm

Center 5.785000000 GHz
Res BW 1.0 MHz

#VBW 3.0 MHz

Span 0 Hz
Sweep 5.000 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	221.0 μs	-19.75 dBm			
2	N	1	t	721.5 μs	-22.08 dBm			
3	N	1	t	1.995 ms	-4.31 dBm			
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

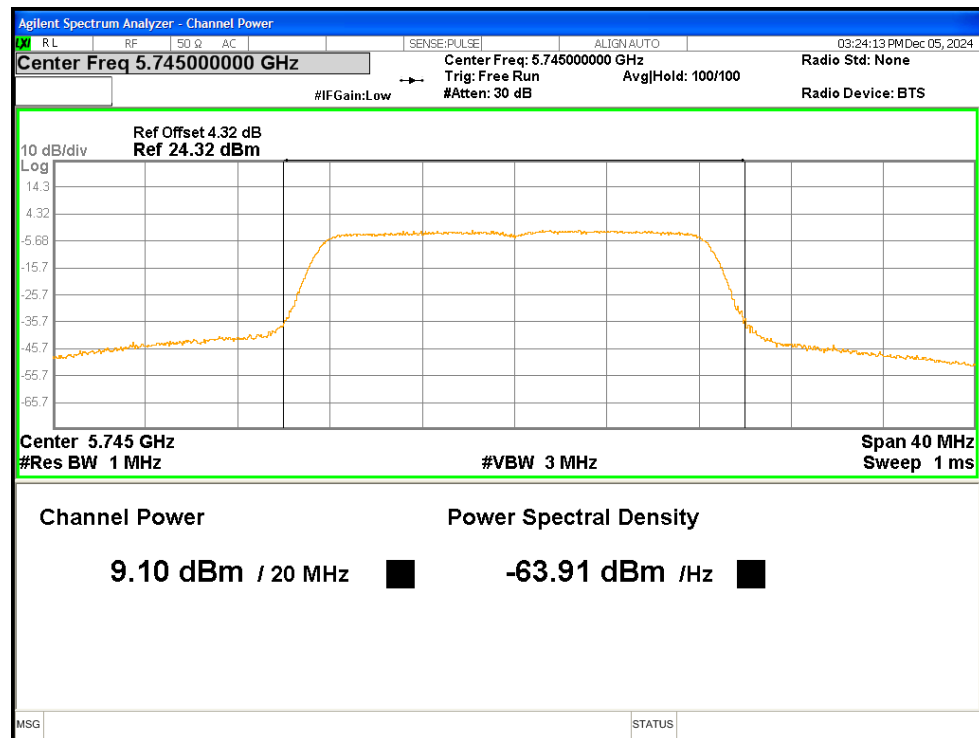
Duty Cycle NVNT n40 5795MHz Sum

2. Maximum Conducted Output Power

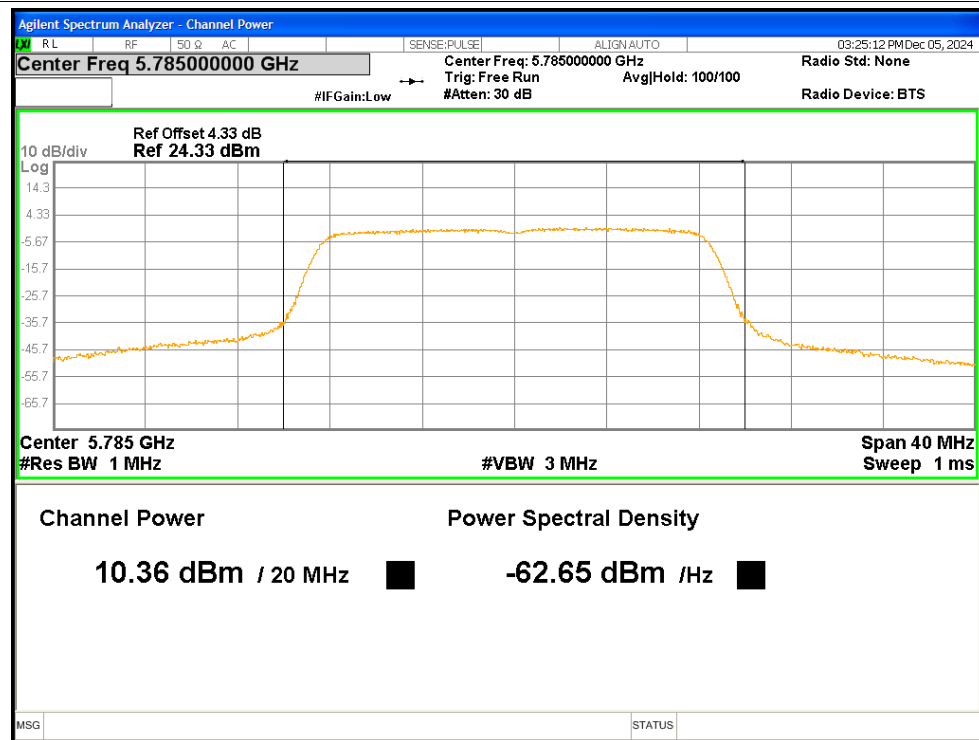
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	a	5745	Ant1	9.1	1.36	10.46	<=30	Pass
NVNT	a	5785	Ant1	10.36	1.36	11.72	<=30	Pass
NVNT	a	5825	Ant1	11.11	1.36	12.47	<=30	Pass
NVNT	a	5745	Ant2	10.67	1.36	12.03	<=30	Pass
NVNT	a	5785	Ant2	10.71	1.36	12.07	<=30	Pass
NVNT	a	5825	Ant2	10.62	1.36	11.98	<=30	Pass
NVNT	n20	5745	Ant1	6.39	1.44	7.83	<=30	Pass
NVNT	n20	5745	Ant2	9.48	1.44	10.92	<=30	Pass
NVNT	n20	5745	Sum	11.21	1.44	12.65	<=27.19	Pass
NVNT	n20	5785	Ant1	6.39	1.44	7.83	<=30	Pass
NVNT	n20	5785	Ant2	8.46	1.44	9.9	<=30	Pass
NVNT	n20	5785	Sum	10.56	1.44	12	<=27.19	Pass
NVNT	n20	5825	Ant1	7.63	1.44	9.07	<=30	Pass
NVNT	n20	5825	Ant2	8.22	1.44	9.66	<=30	Pass
NVNT	n20	5825	Sum	10.95	1.44	12.39	<=27.19	Pass
NVNT	n40	5755	Ant1	4.34	2.52	6.86	<=30	Pass
NVNT	n40	5755	Ant2	7.46	2.52	9.98	<=30	Pass
NVNT	n40	5755	Sum	9.18	2.52	11.7	<=27.19	Pass
NVNT	n40	5795	Ant1	4.78	2.52	7.3	<=30	Pass
NVNT	n40	5795	Ant2	7	2.52	9.52	<=30	Pass
NVNT	n40	5795	Sum	9.04	2.52	11.56	<=27.19	Pass

Test Graphs

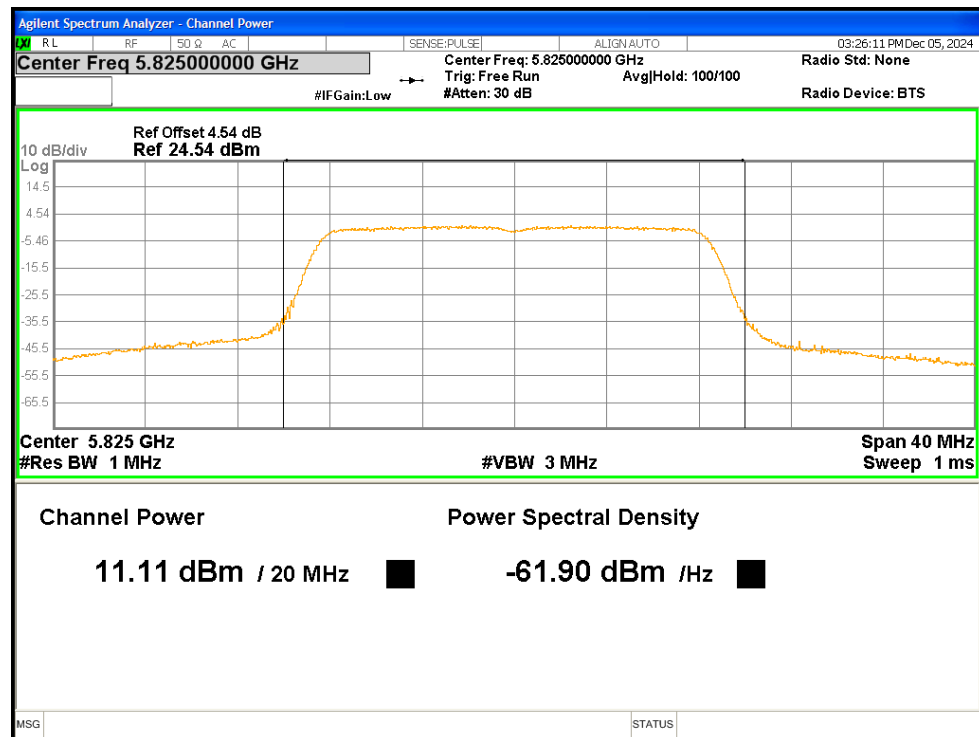
Power NVNT a 5745MHz Ant1



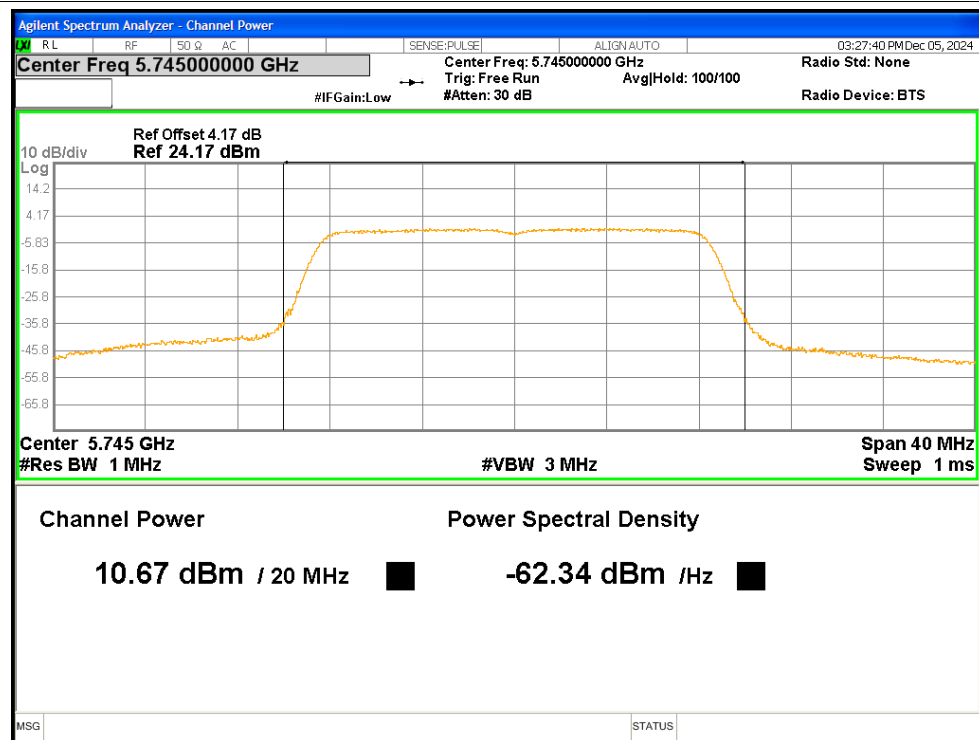
Power NVNT a 5785MHz Ant1



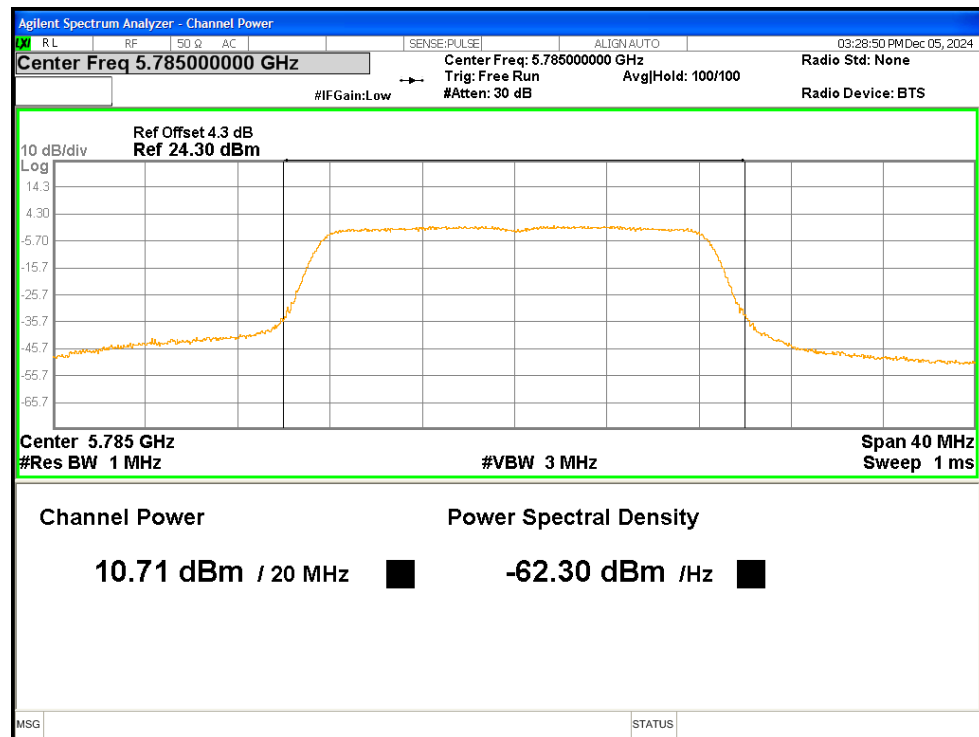
Power NVNT a 5825MHz Ant1



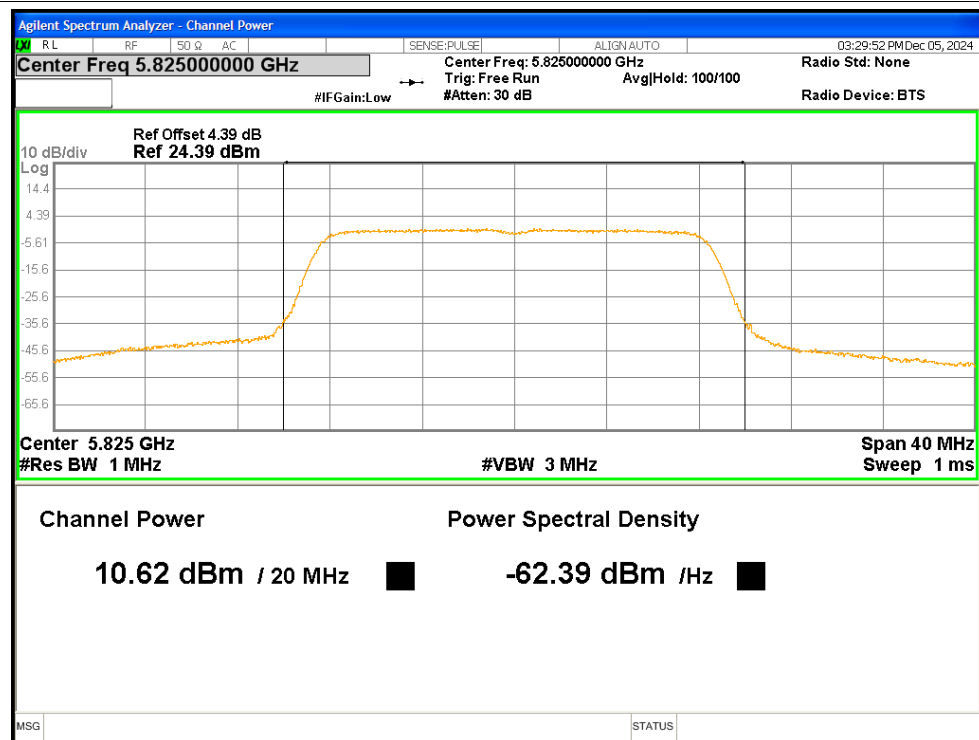
Power NVNT a 5745MHz Ant2



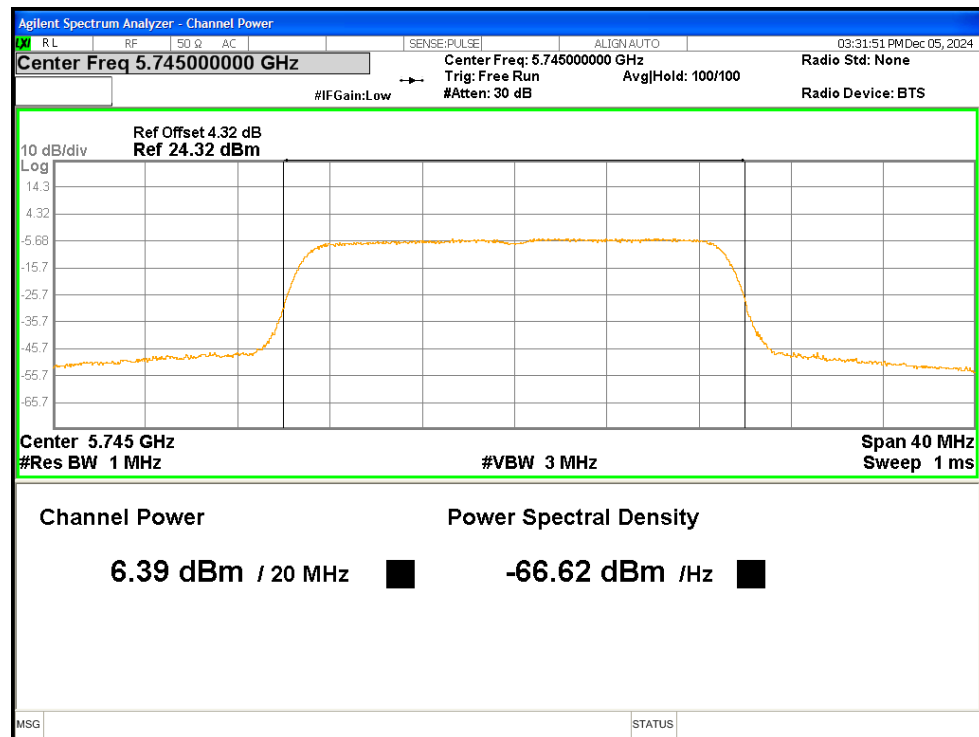
Power NVNT a 5785MHz Ant2



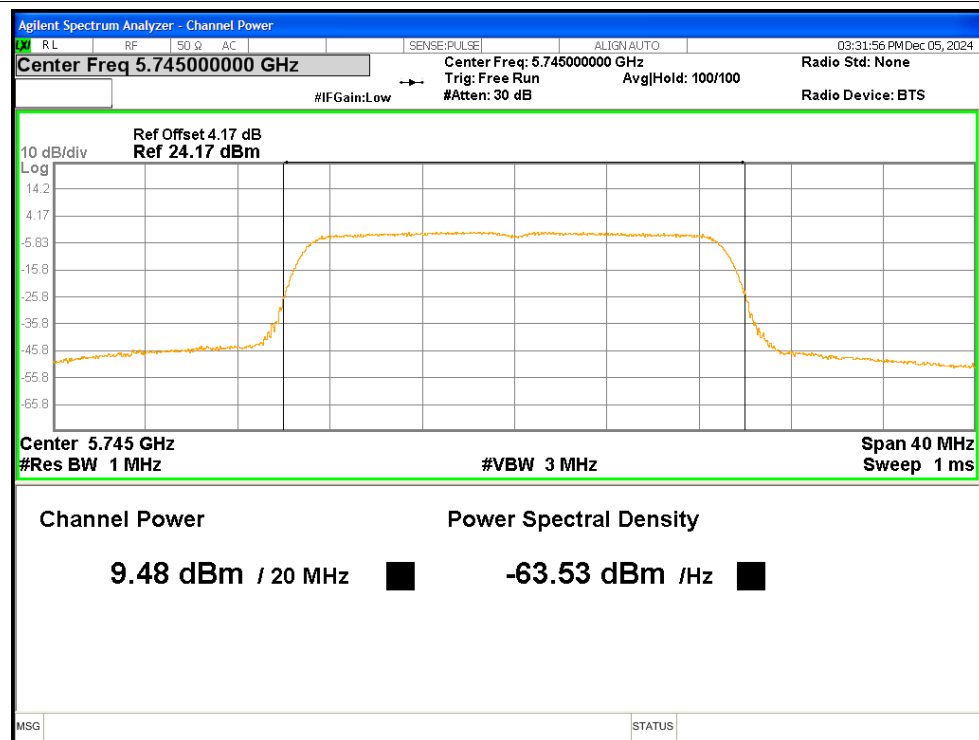
Power NVNT a 5825MHz Ant2



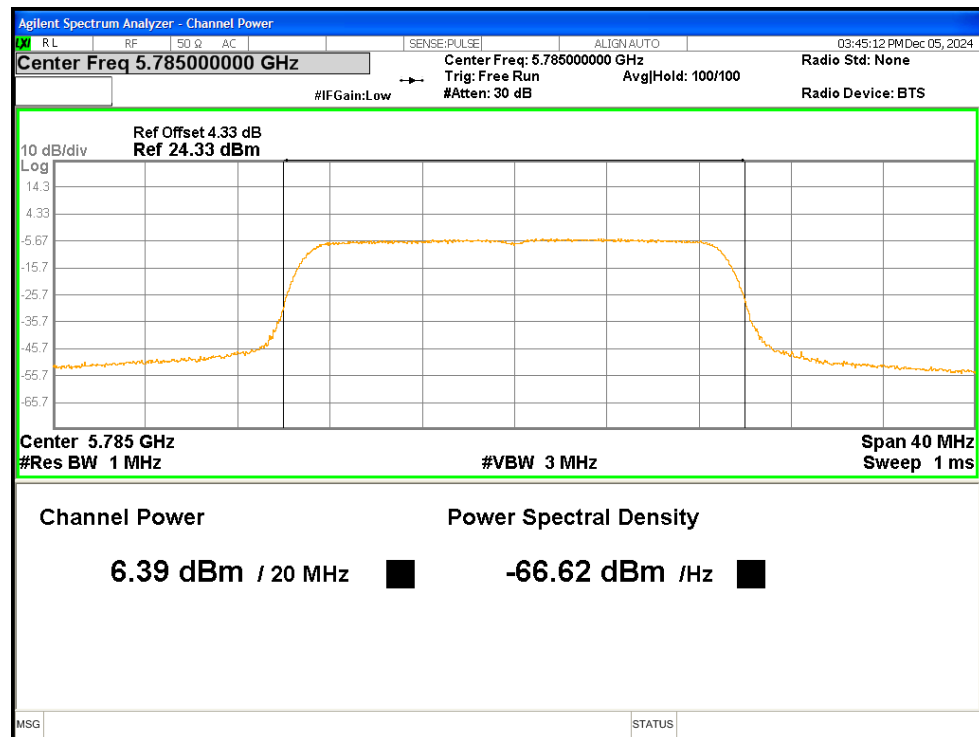
Power NVNT n20 5745MHz Ant1



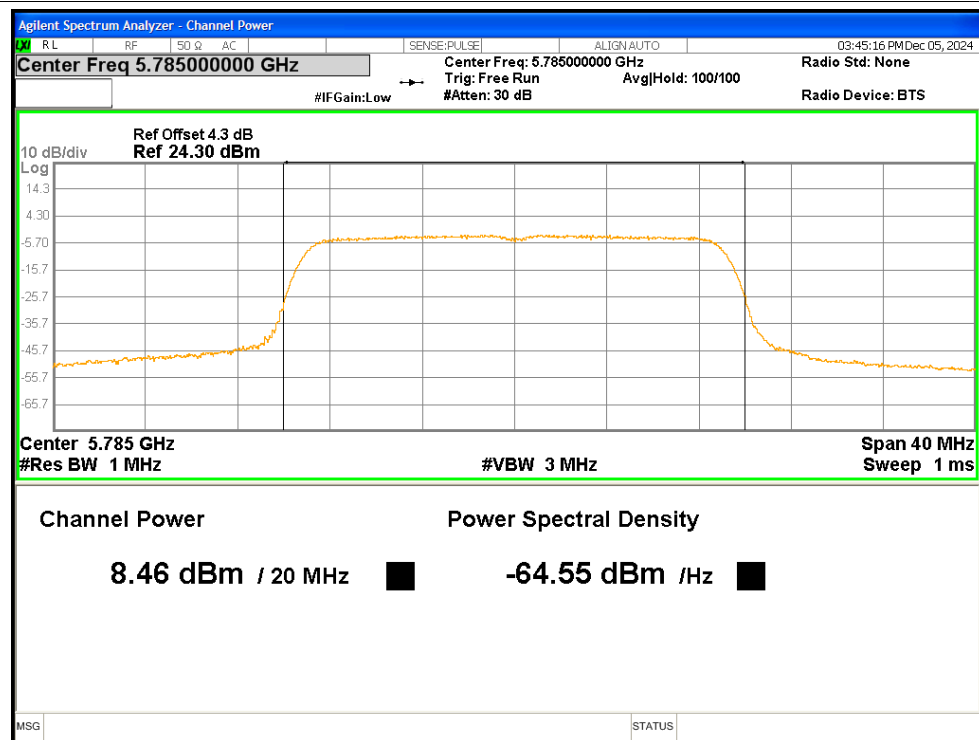
Power NVNT n20 5745MHz Ant2



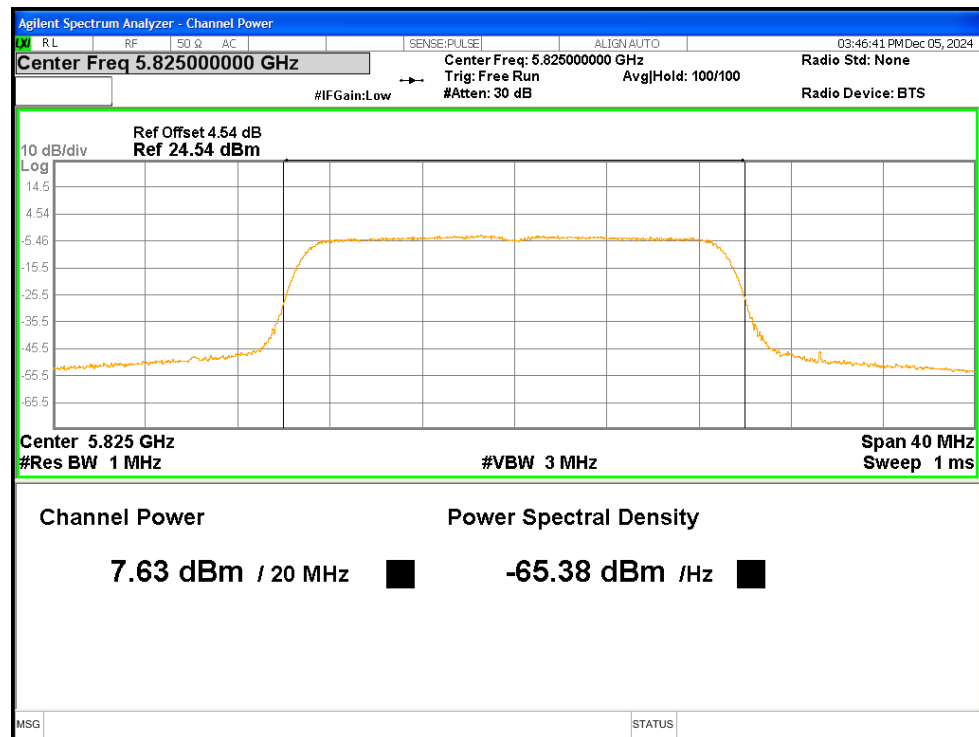
Power NVNT n20 5785MHz Ant1



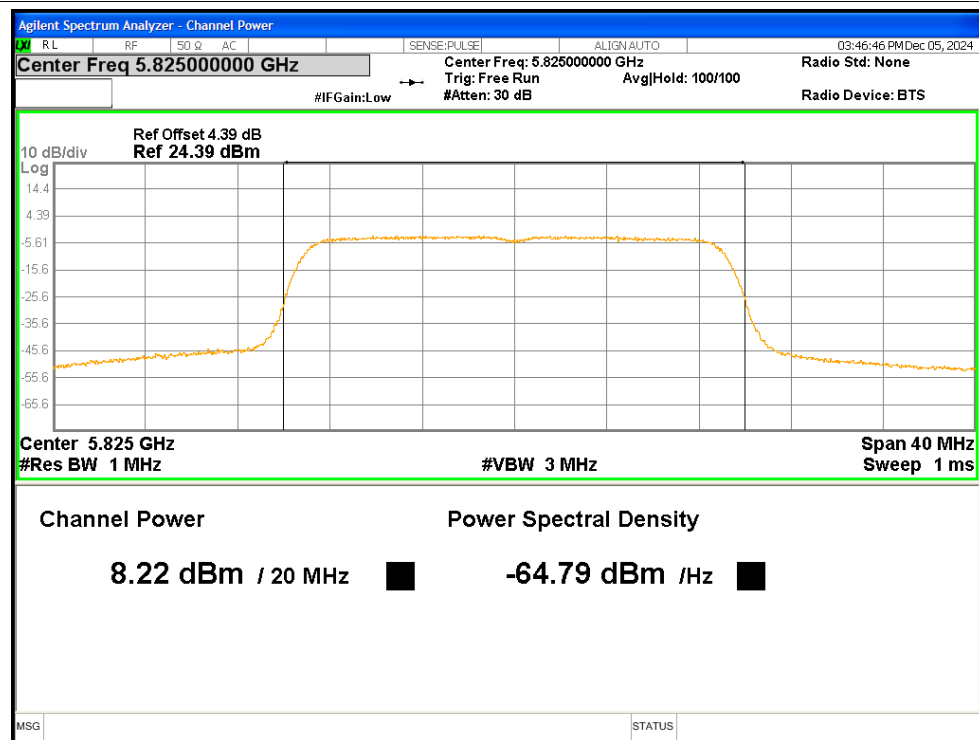
Power NVNT n20 5785MHz Ant2



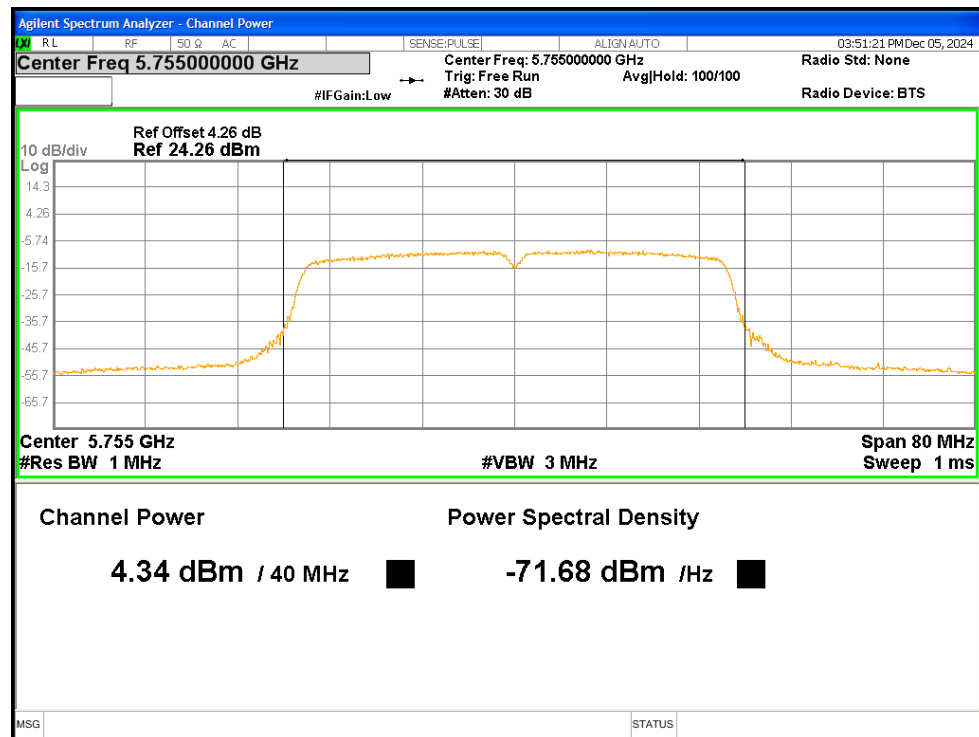
Power NVNT n20 5825MHz Ant1



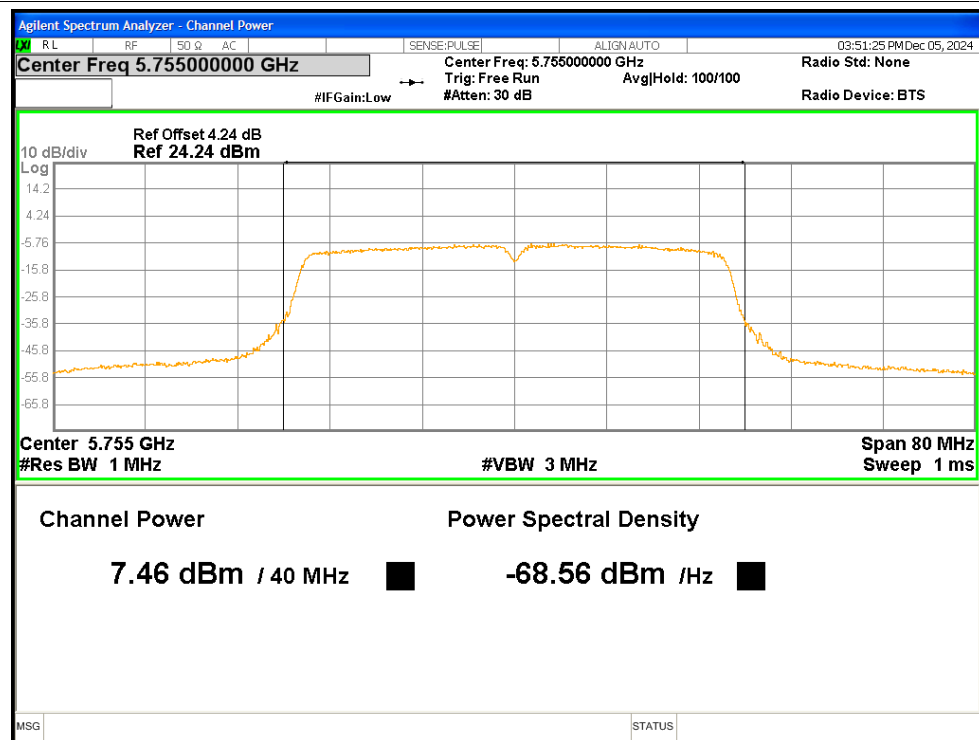
Power NVNT n20 5825MHz Ant2



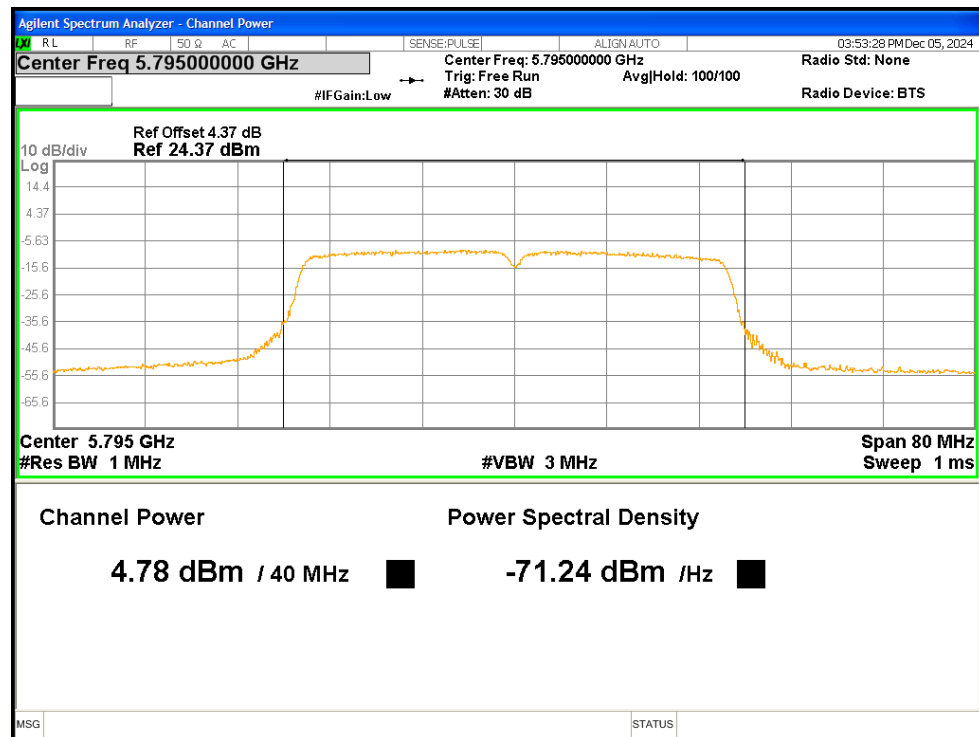
Power NVNT n40 5755MHz Ant1



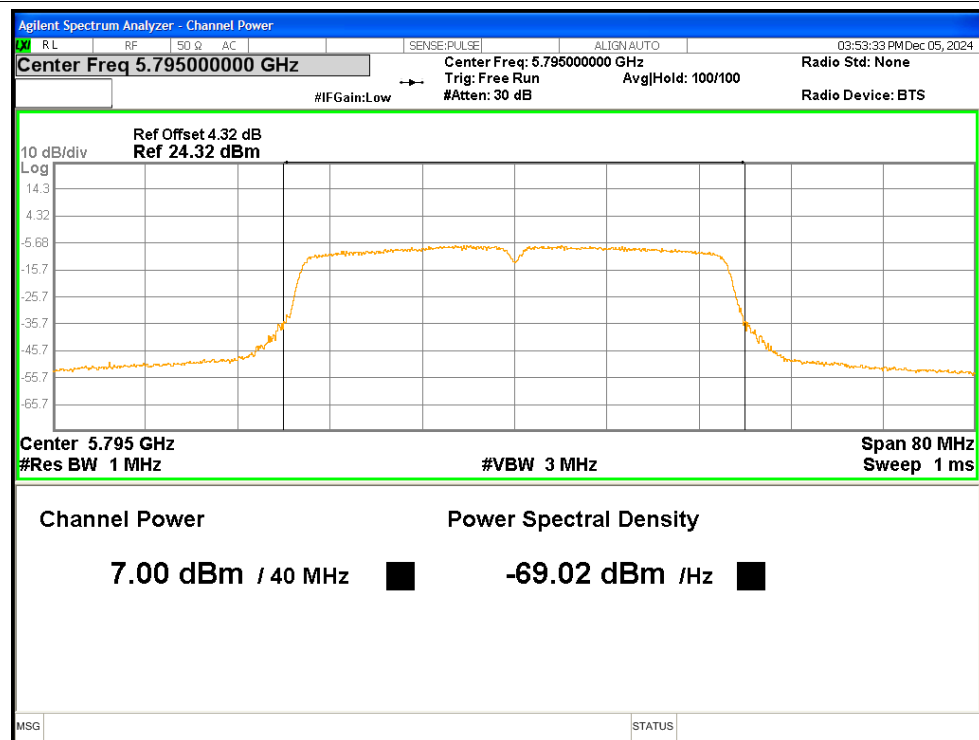
Power NVNT n40 5755MHz Ant2



Power NVNT n40 5795MHz Ant1



Power NVNT n40 5795MHz Ant2

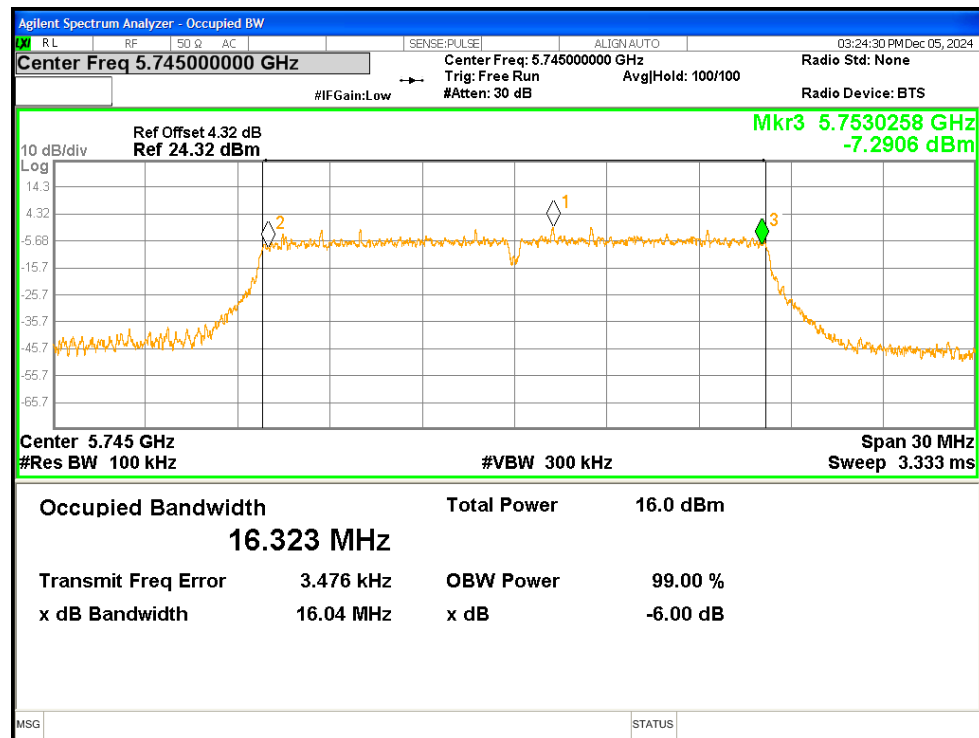


3. -6dB Bandwidth

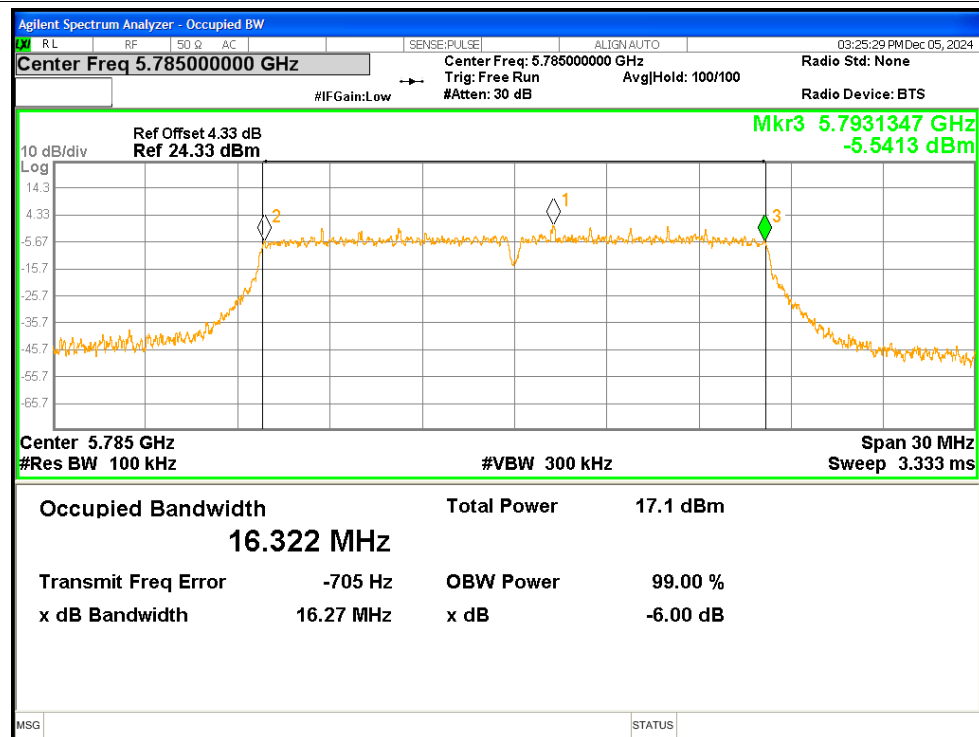
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	a	5745	Ant1	16.0447	≥ 0.5	Pass
NVNT	a	5785	Ant1	16.2707	≥ 0.5	Pass
NVNT	a	5825	Ant1	16.3042	≥ 0.5	Pass
NVNT	a	5745	Ant2	16.3259	≥ 0.5	Pass
NVNT	a	5785	Ant2	16.3205	≥ 0.5	Pass
NVNT	a	5825	Ant2	16.3224	≥ 0.5	Pass
NVNT	n20	5745	Ant1	17.5583	≥ 0.5	Pass
NVNT	n20	5745	Ant2	17.5501	≥ 0.5	Pass
NVNT	n20	5785	Ant1	17.5438	≥ 0.5	Pass
NVNT	n20	5785	Ant2	17.5538	≥ 0.5	Pass
NVNT	n20	5825	Ant1	17.5379	≥ 0.5	Pass
NVNT	n20	5825	Ant2	17.2509	≥ 0.5	Pass
NVNT	n40	5755	Ant1	35.041	≥ 0.5	Pass
NVNT	n40	5755	Ant2	34.1561	≥ 0.5	Pass
NVNT	n40	5795	Ant1	35.3057	≥ 0.5	Pass
NVNT	n40	5795	Ant2	34.0516	≥ 0.5	Pass

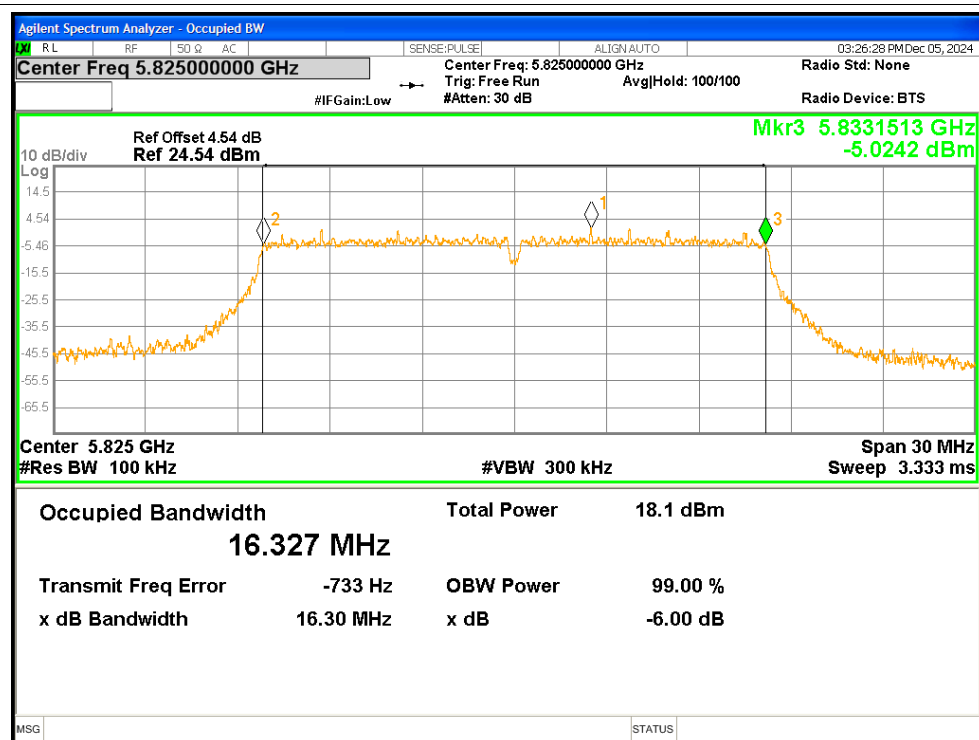
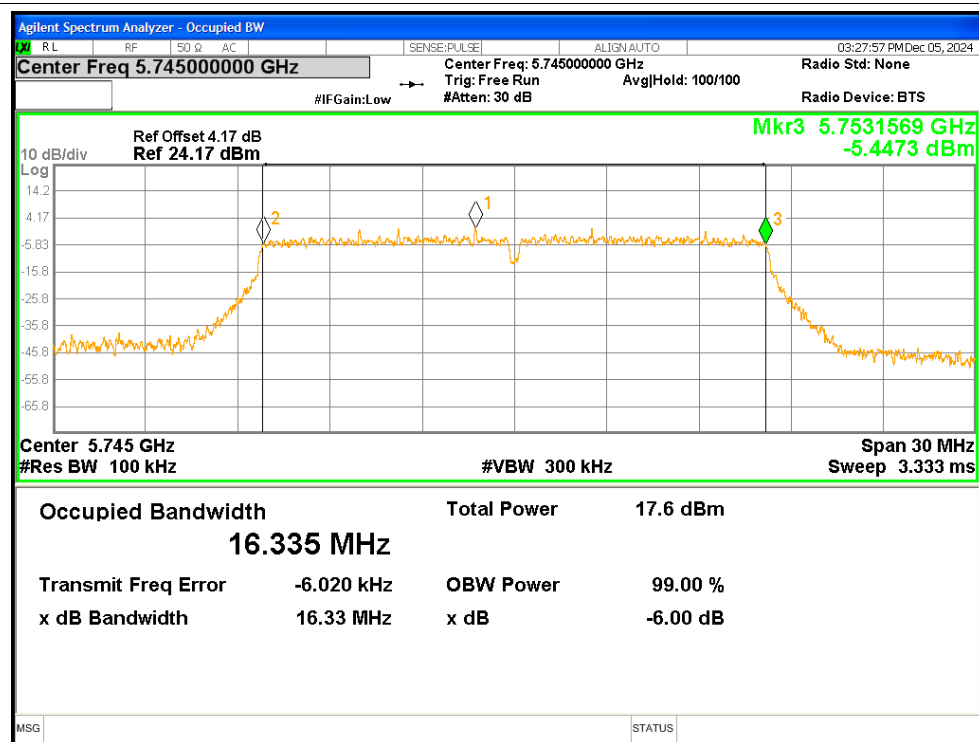
Test Graphs

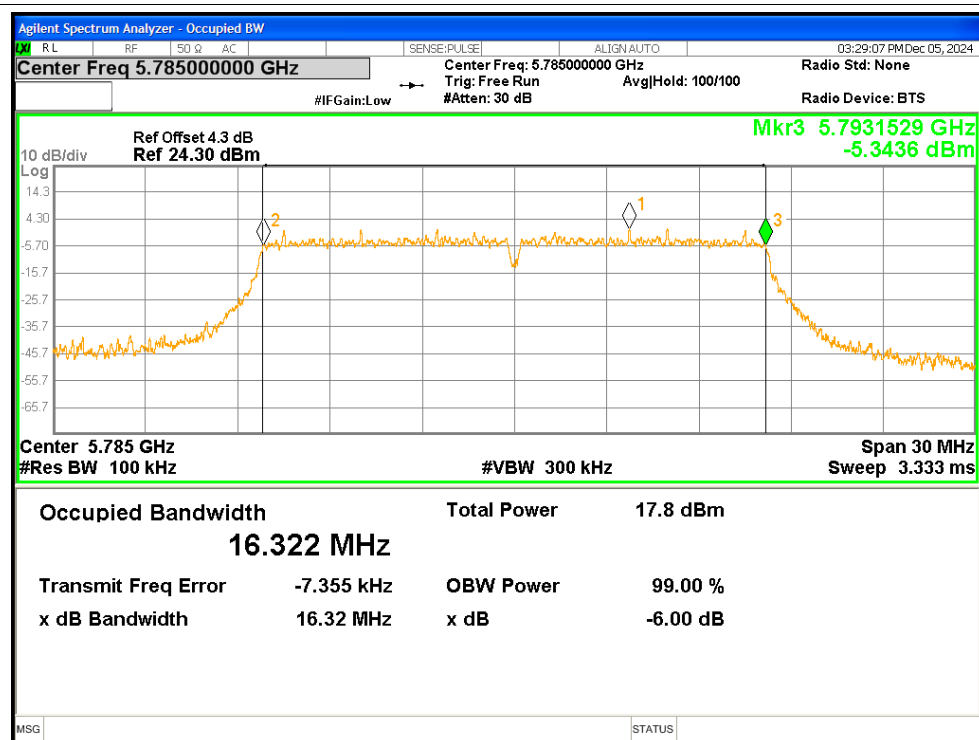
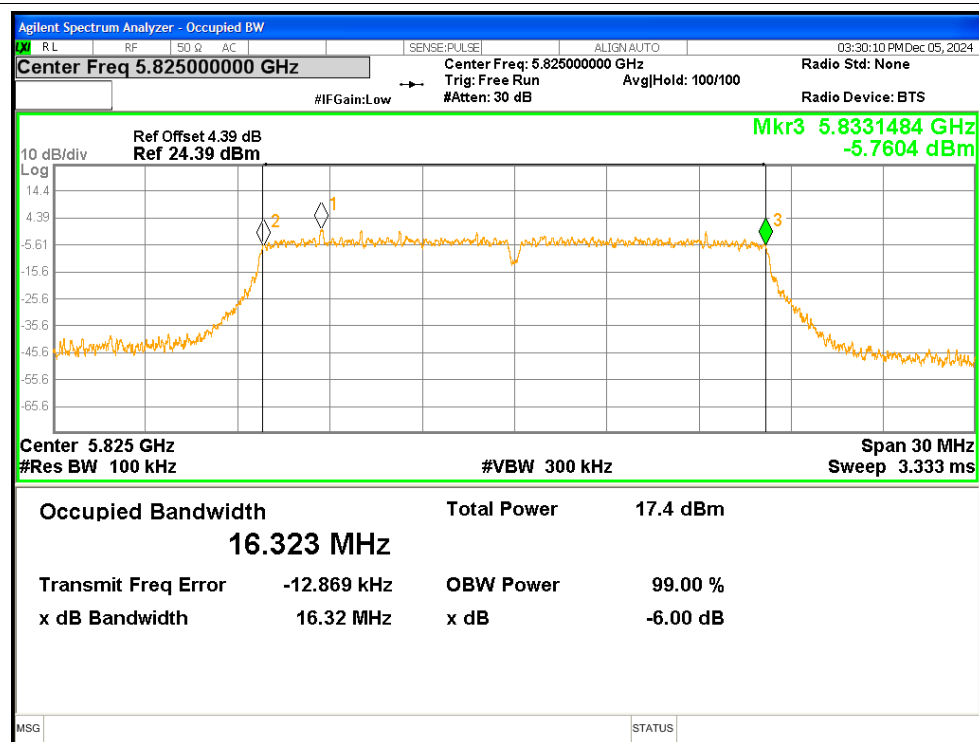
-6dB Bandwidth NVNT a 5745MHz Ant1

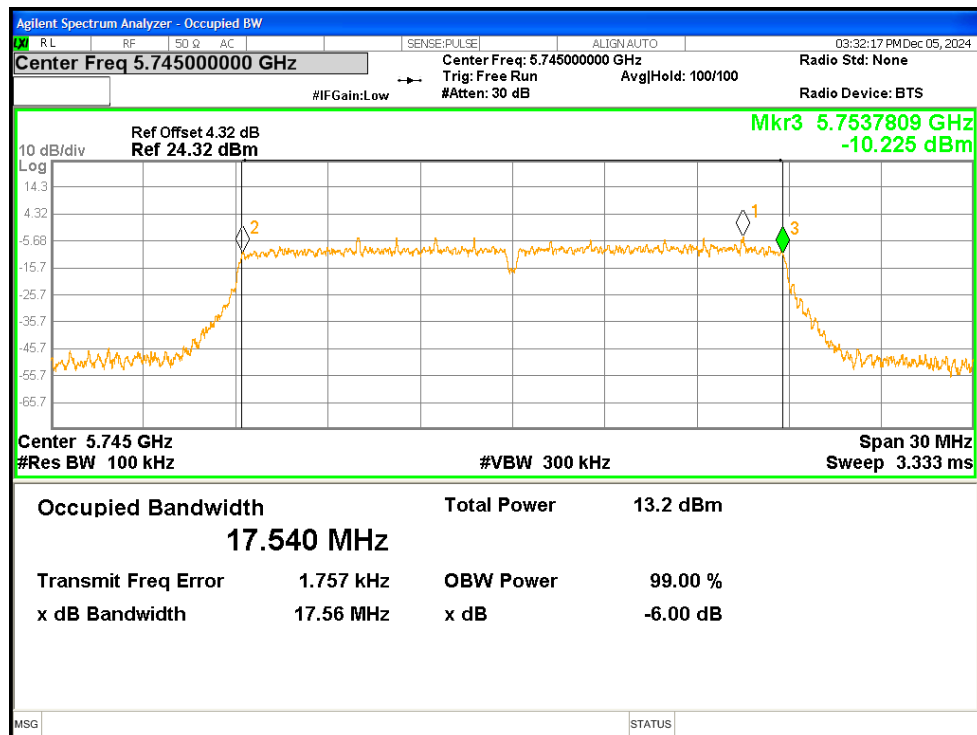
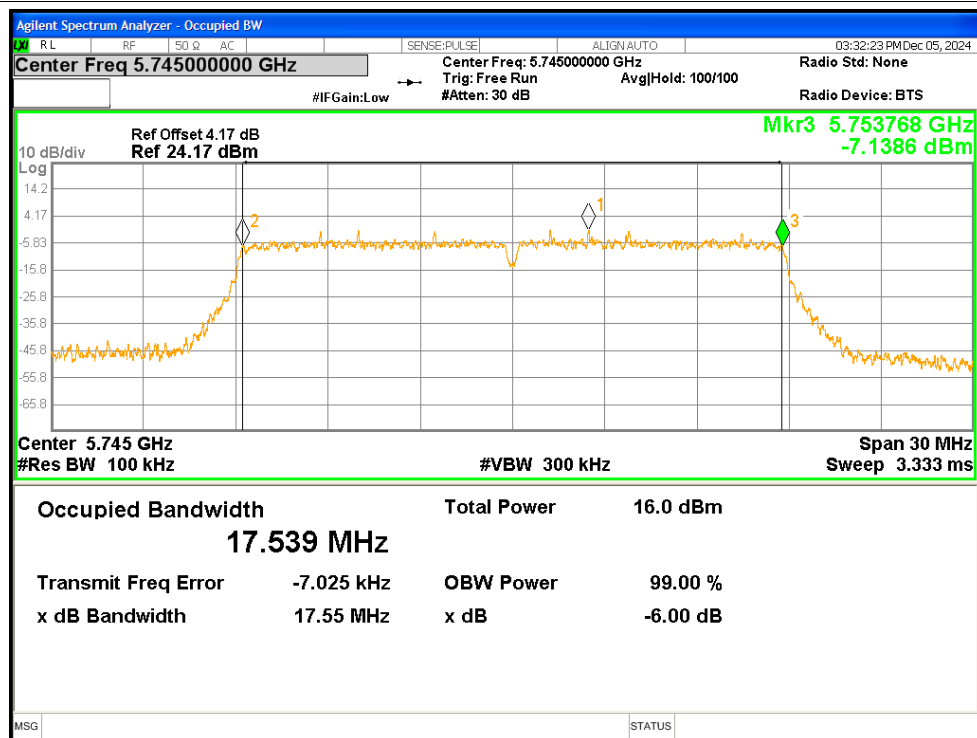


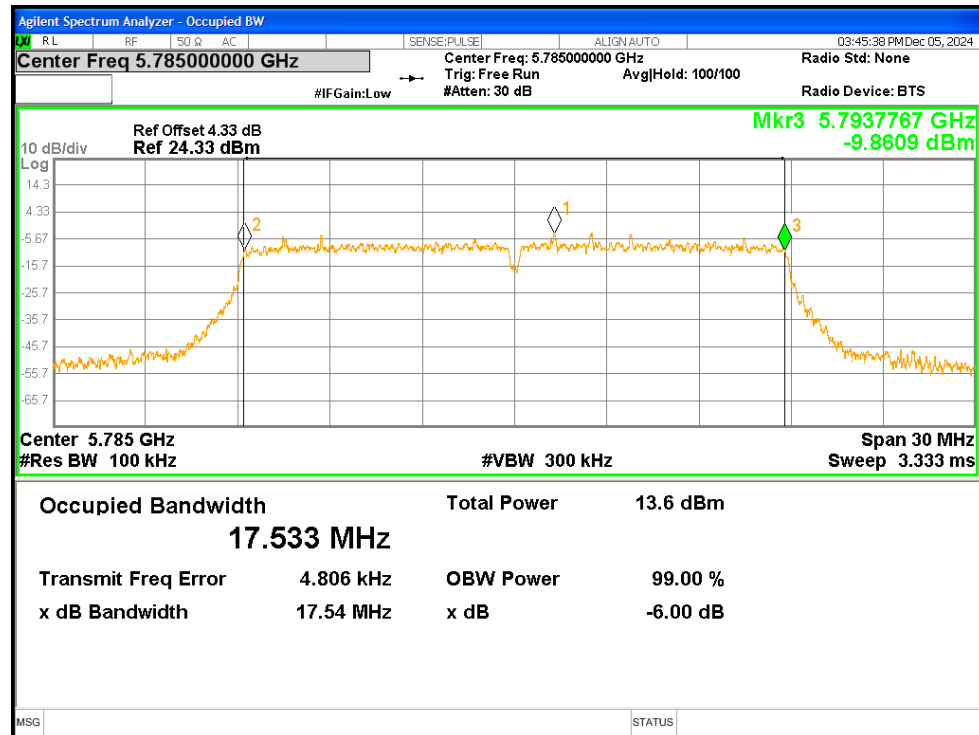
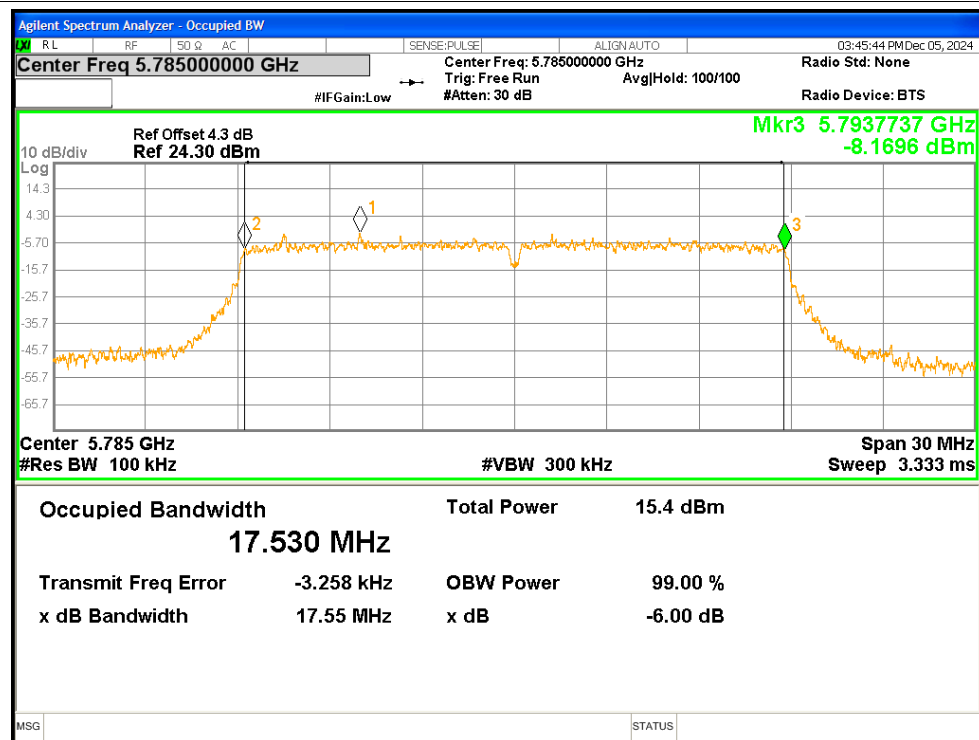
-6dB Bandwidth NVNT a 5785MHz Ant1

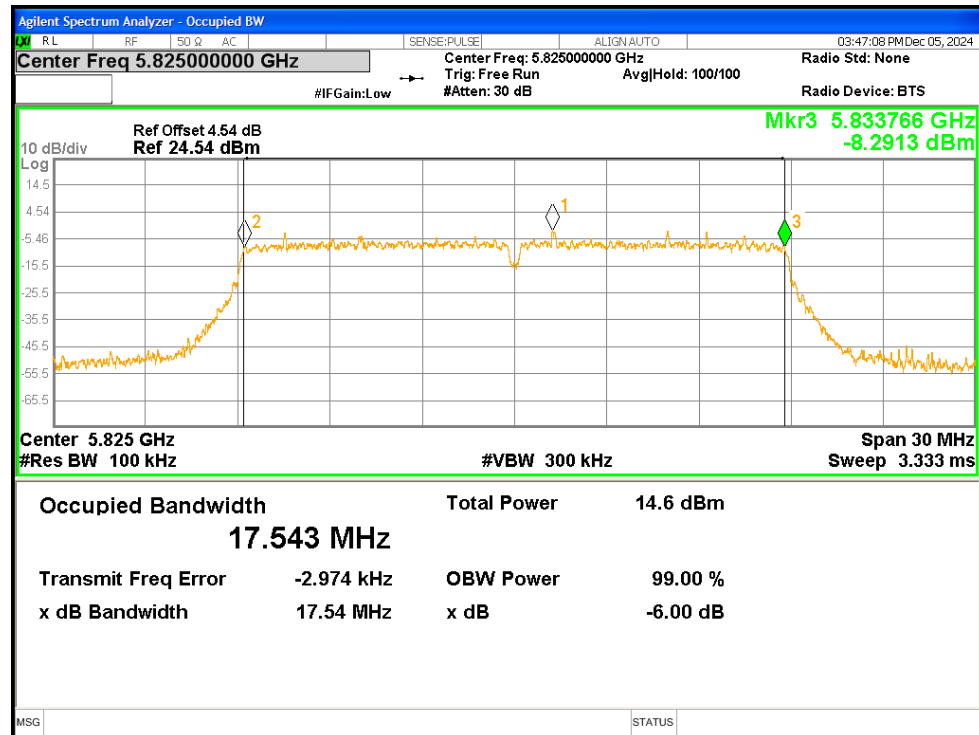
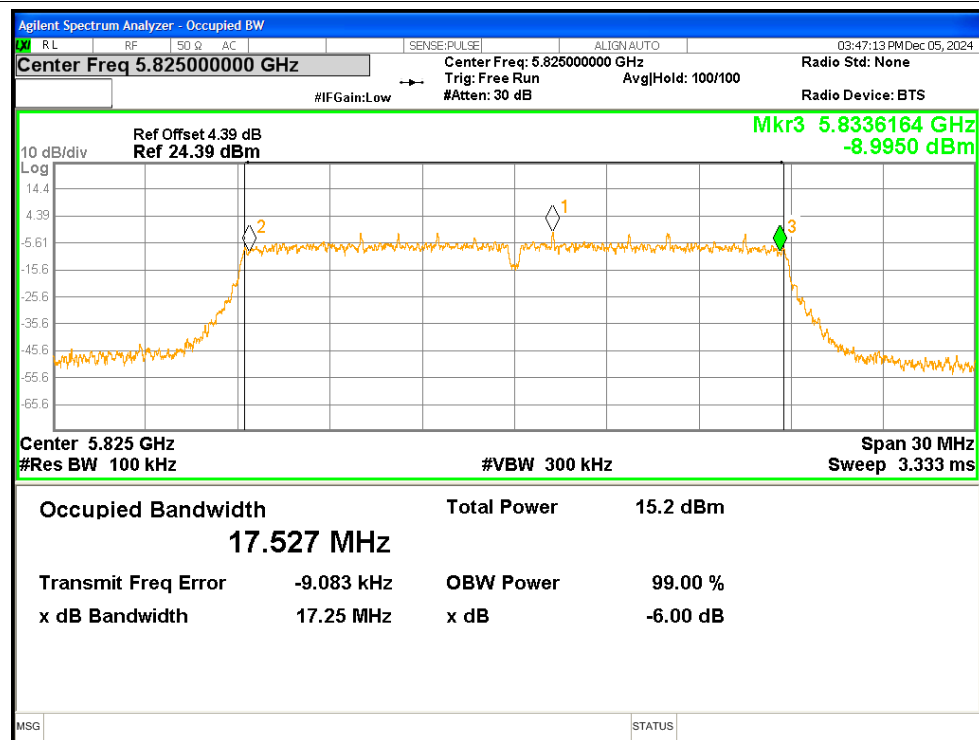


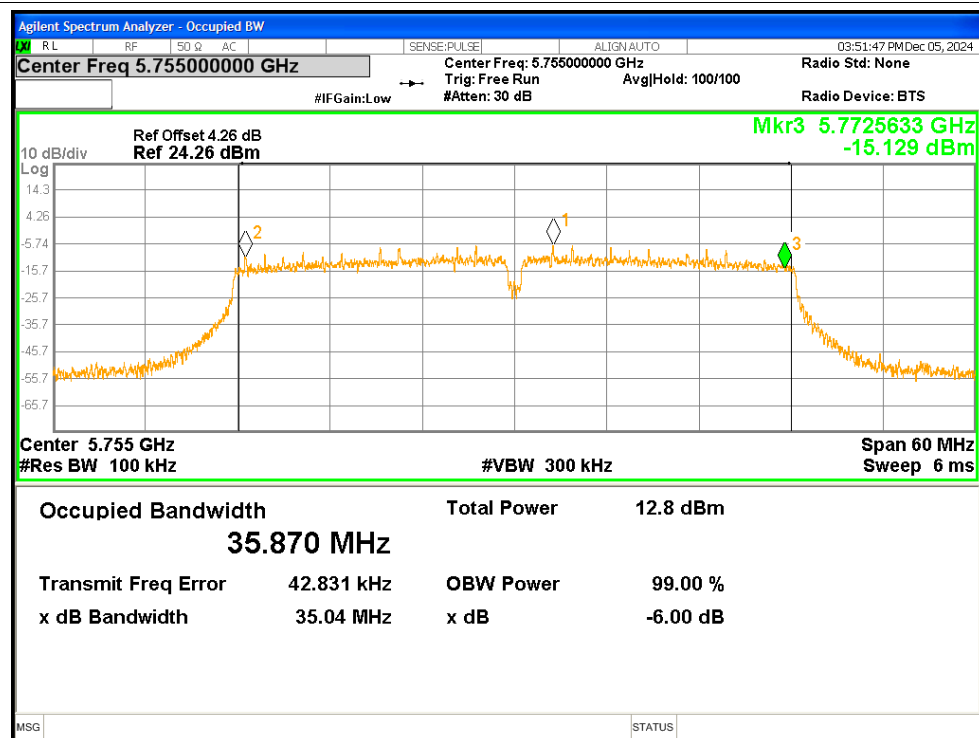
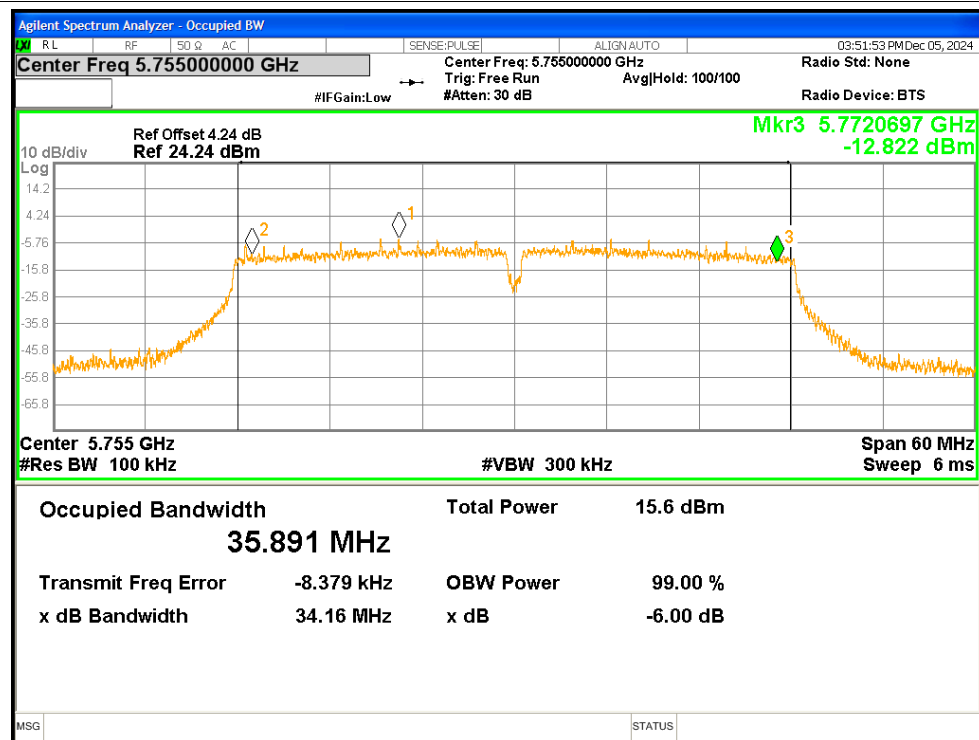
-6dB Bandwidth NVNT a 5825MHz Ant1**-6dB Bandwidth NVNT a 5745MHz Ant2**

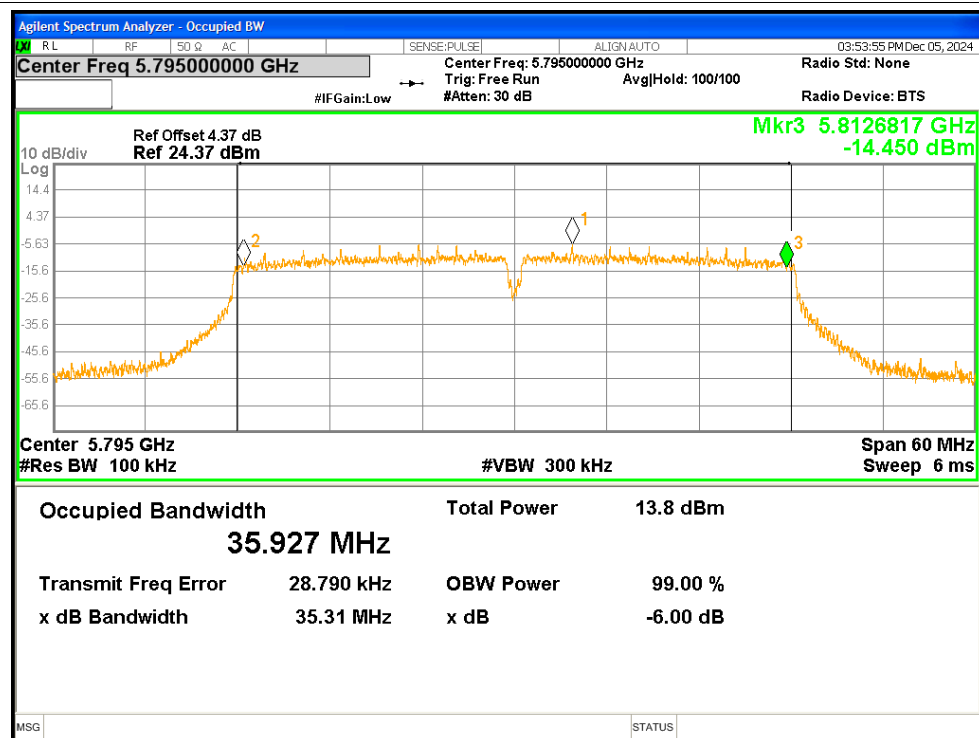
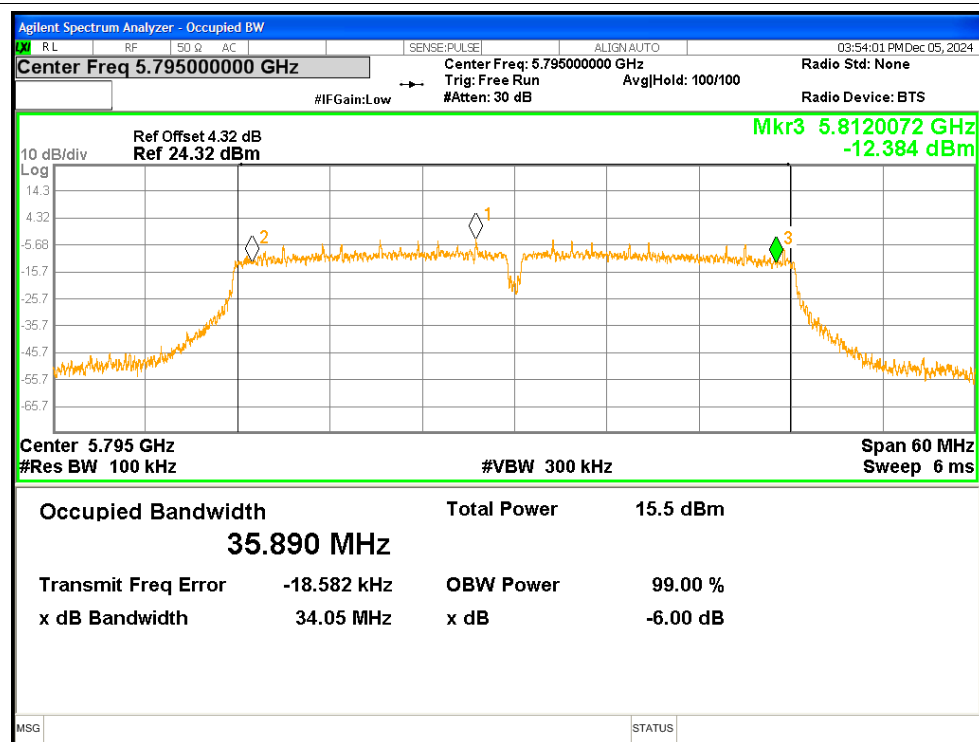
-6dB Bandwidth NVNT a 5785MHz Ant2**-6dB Bandwidth NVNT a 5825MHz Ant2**

-6dB Bandwidth NVNT n20 5745MHz Ant1**-6dB Bandwidth NVNT n20 5745MHz Ant2**

-6dB Bandwidth NVNT n20 5785MHz Ant1**-6dB Bandwidth NVNT n20 5785MHz Ant2**

-6dB Bandwidth NVNT n20 5825MHz Ant1**-6dB Bandwidth NVNT n20 5825MHz Ant2**

-6dB Bandwidth NVNT n40 5755MHz Ant1**-6dB Bandwidth NVNT n40 5755MHz Ant2**

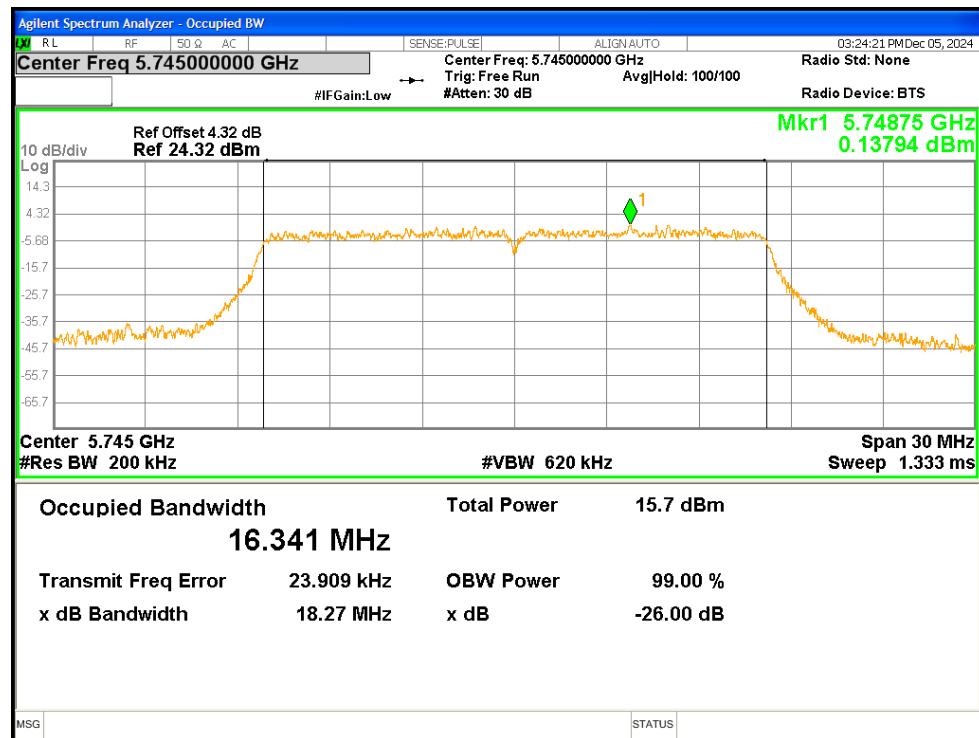
-6dB Bandwidth NVNT n40 5795MHz Ant1**-6dB Bandwidth NVNT n40 5795MHz Ant2**

4. Occupied Channel Bandwidth

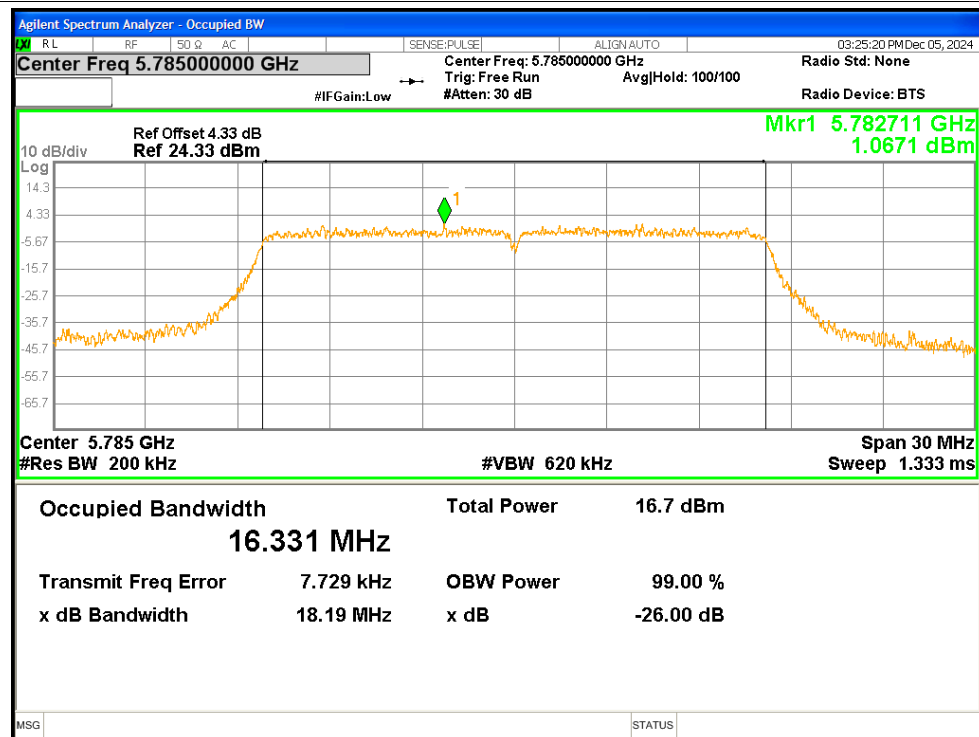
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	a	5745	Ant1	16.3405
NVNT	a	5785	Ant1	16.3314
NVNT	a	5825	Ant1	16.3331
NVNT	a	5745	Ant2	16.3628
NVNT	a	5785	Ant2	16.3282
NVNT	a	5825	Ant2	16.3463
NVNT	n20	5745	Ant1	17.5362
NVNT	n20	5745	Ant2	17.5419
NVNT	n20	5785	Ant1	17.5186
NVNT	n20	5785	Ant2	17.5213
NVNT	n20	5825	Ant1	17.5222
NVNT	n20	5825	Ant2	17.5199
NVNT	n40	5755	Ant1	36.005
NVNT	n40	5755	Ant2	36.0111
NVNT	n40	5795	Ant1	36.0507
NVNT	n40	5795	Ant2	35.9859

Test Graphs

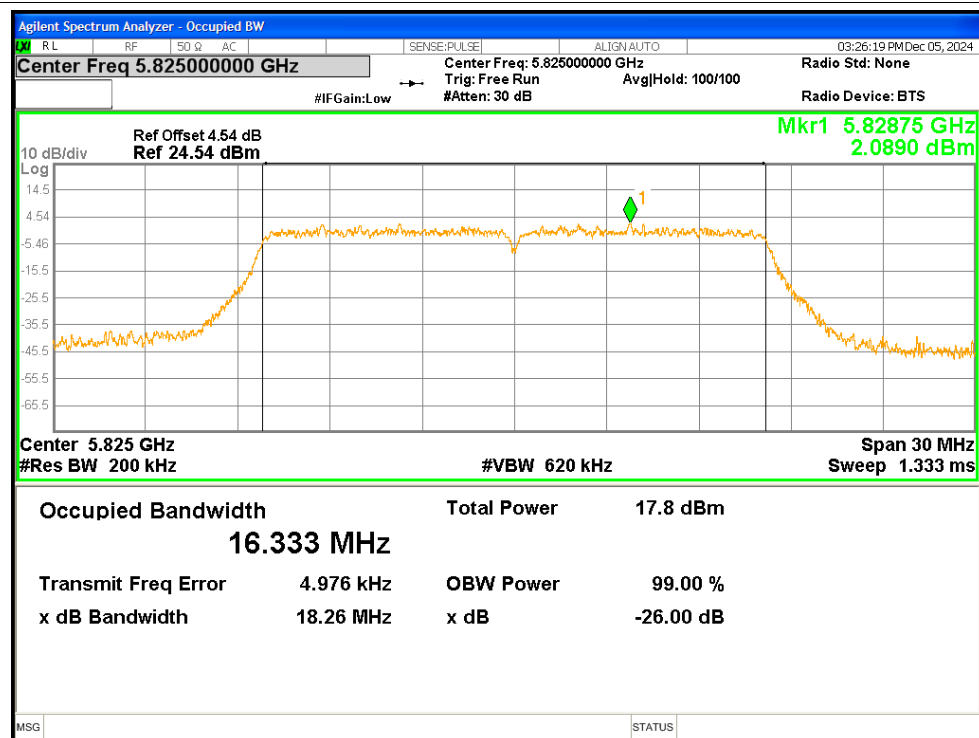
OBW NVNT a 5745MHz Ant1



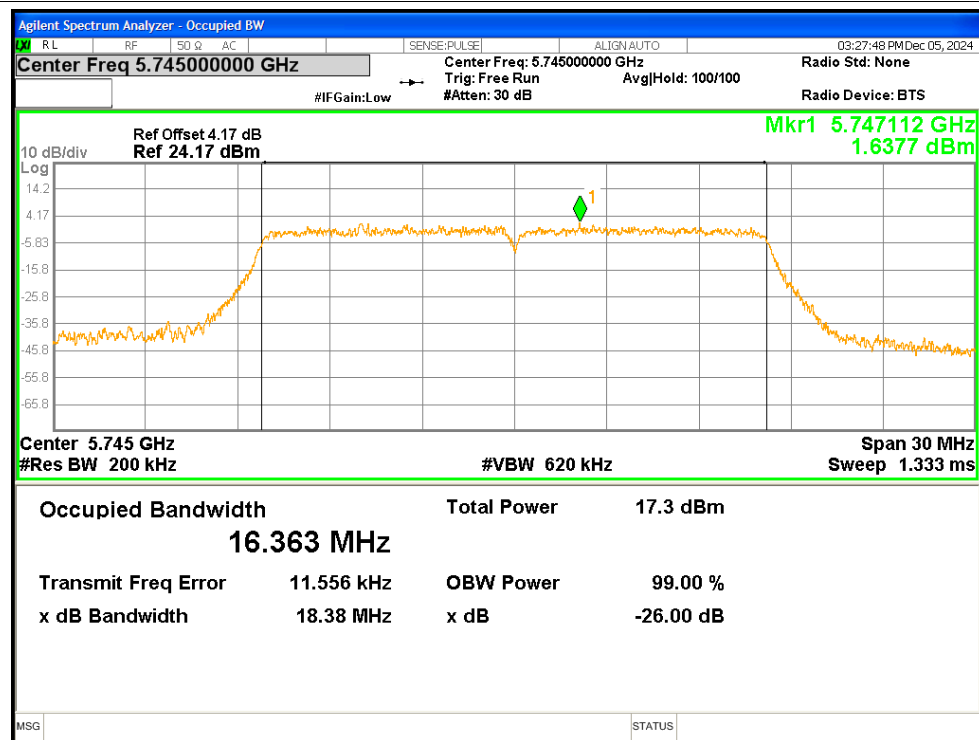
OBW NVNT a 5785MHz Ant1



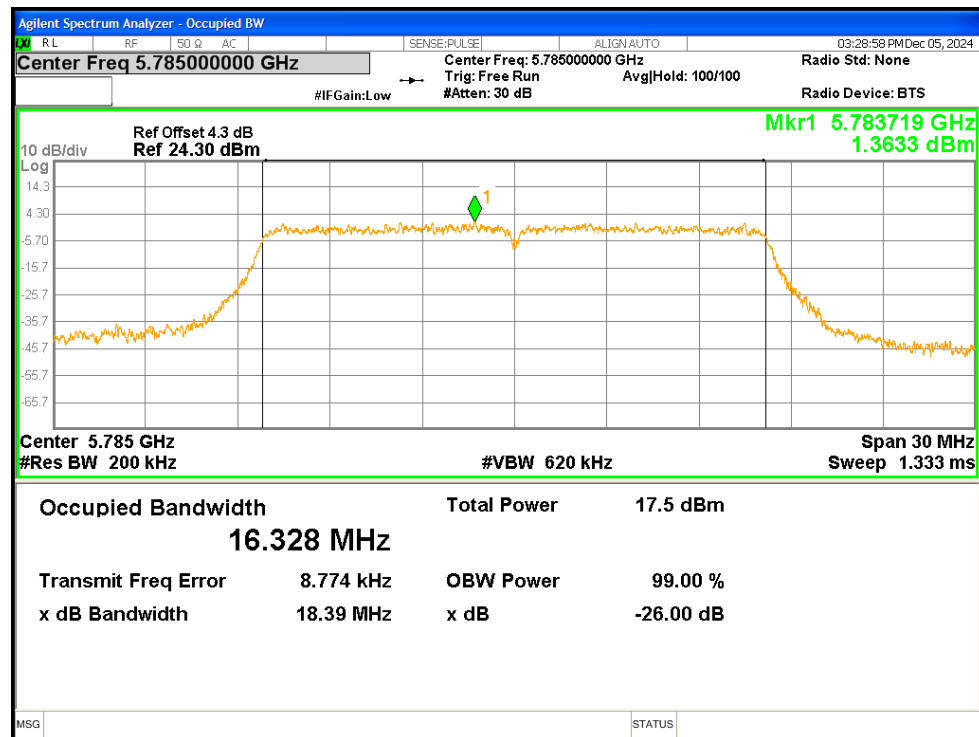
OBW NVNT a 5825MHz Ant1



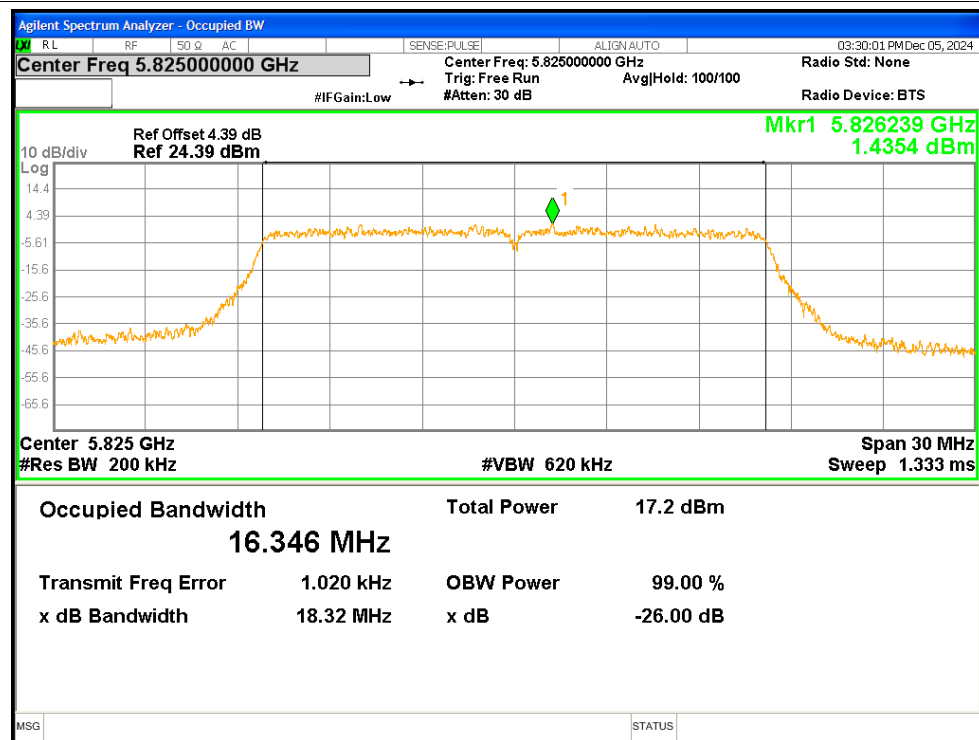
OBW NVNT a 5745MHz Ant2



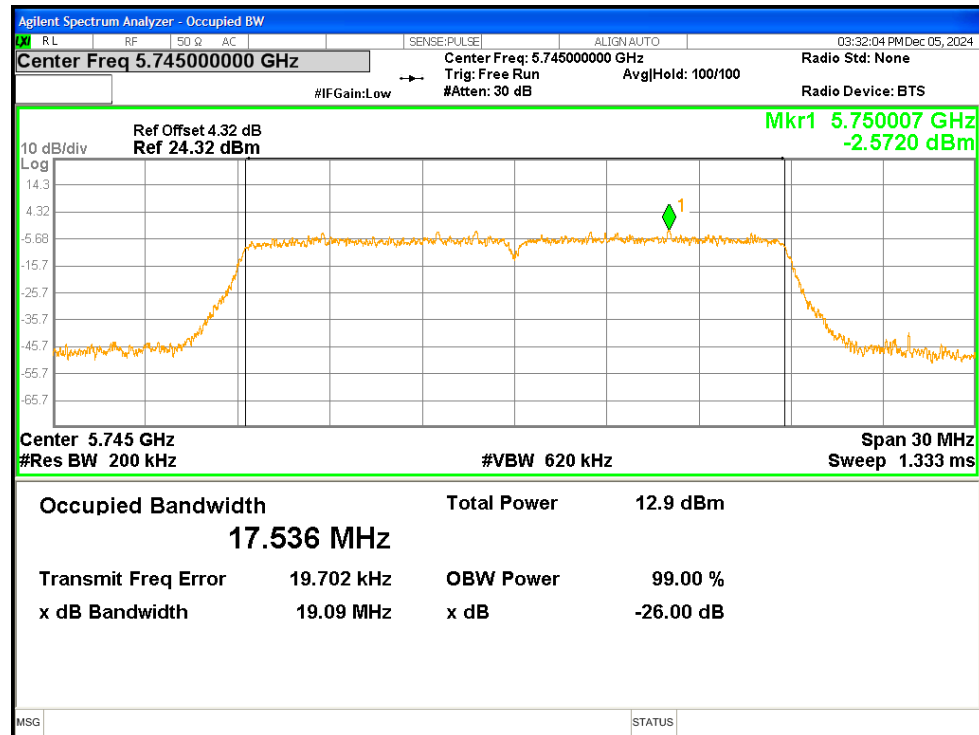
OBW NVNT a 5785MHz Ant2



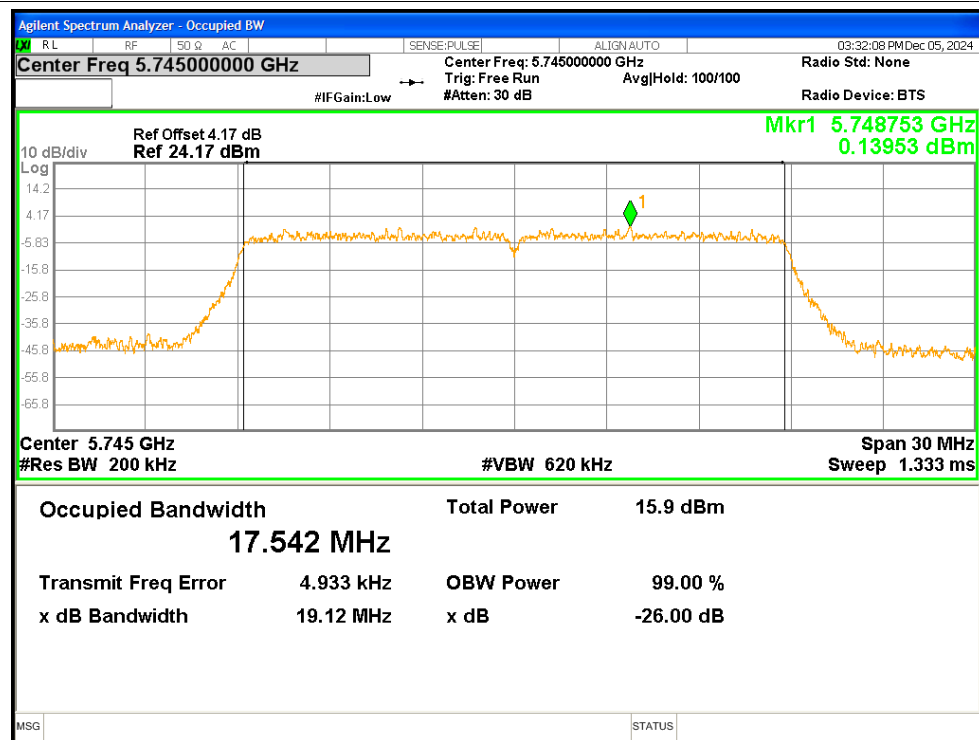
OBW NVNT a 5825MHz Ant2



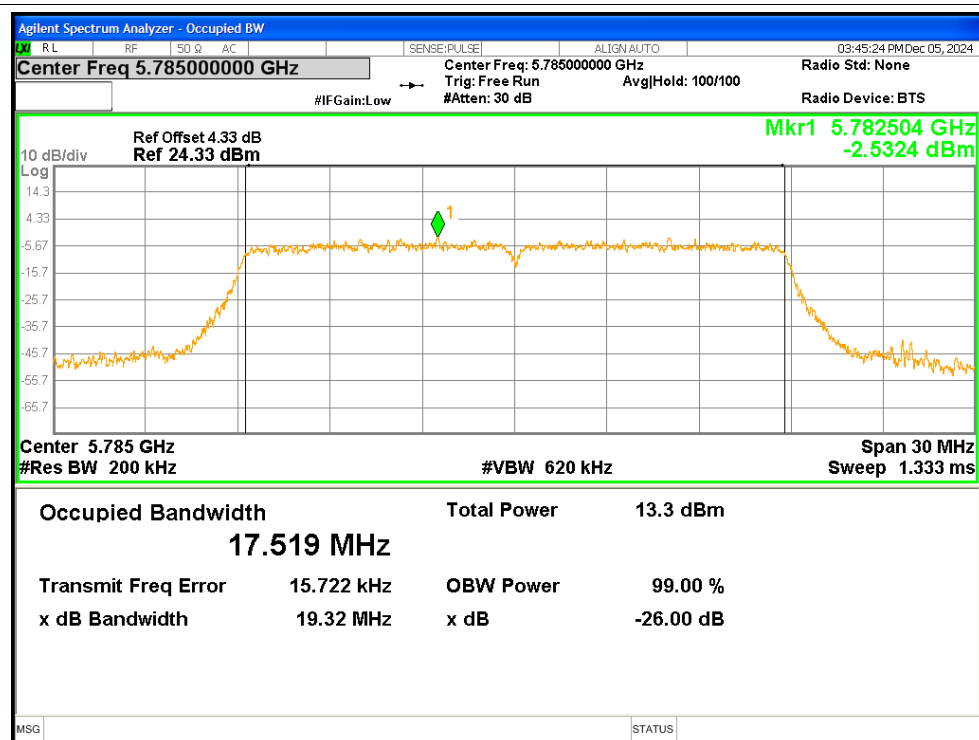
OBW NVNT n20 5745MHz Ant1



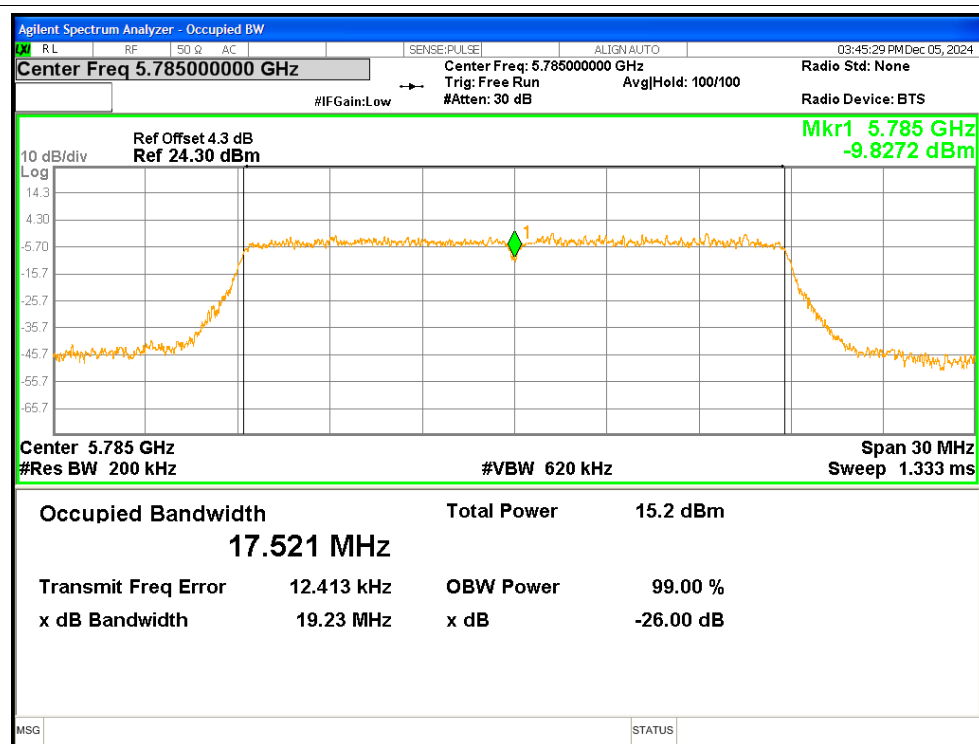
OBW NVNT n20 5745MHz Ant2



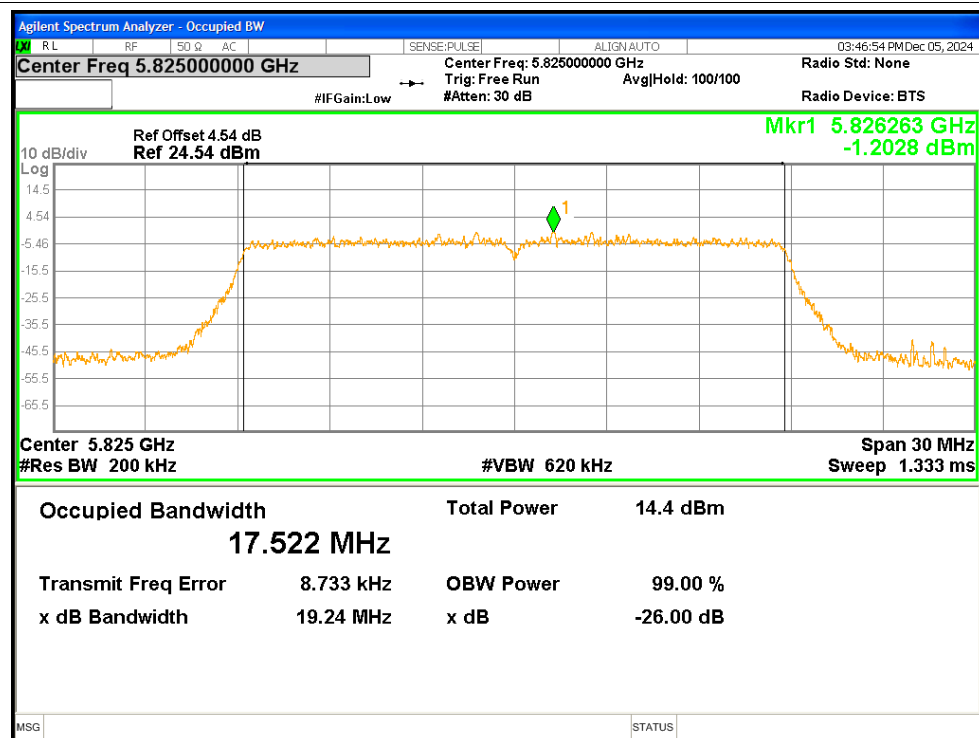
OBW NVNT n20 5785MHz Ant1



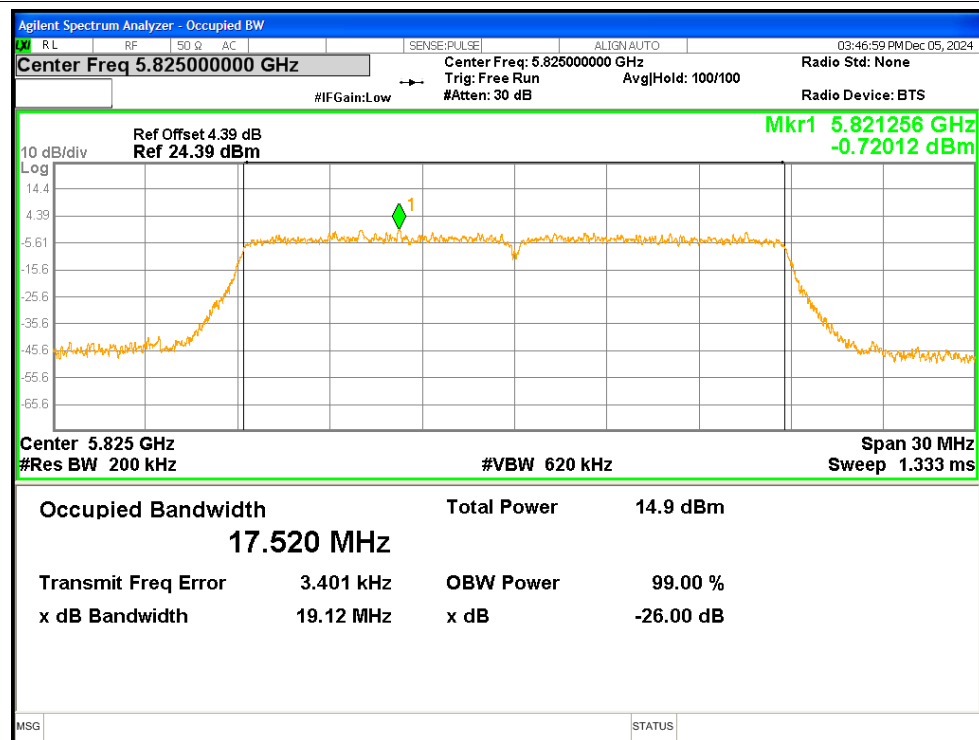
OBW NVNT n20 5785MHz Ant2



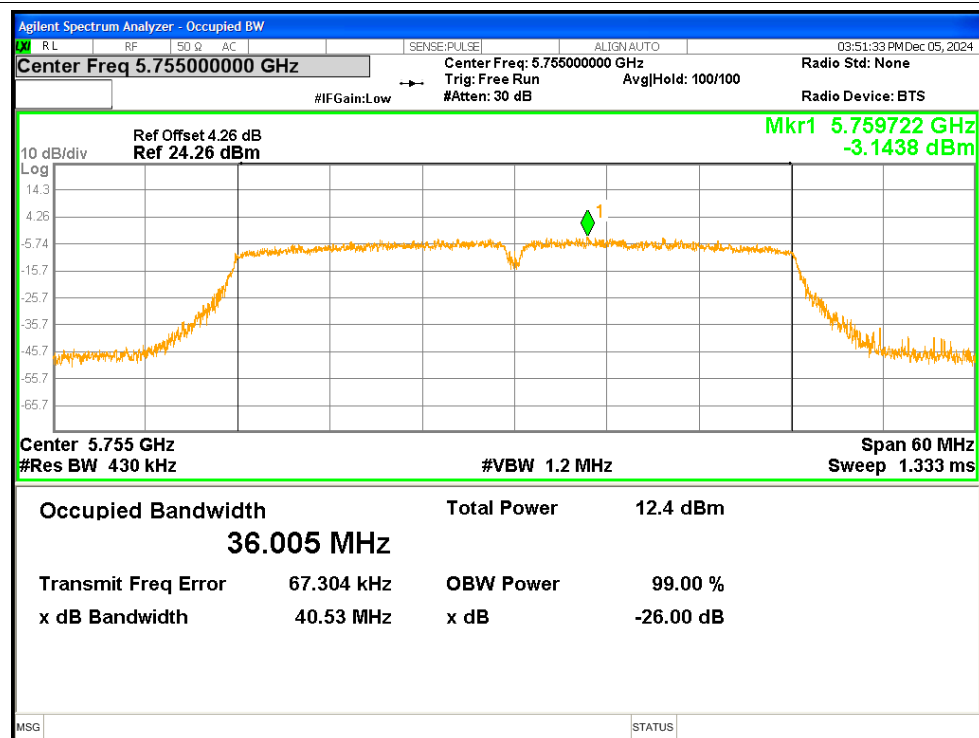
OBW NVNT n20 5825MHz Ant1



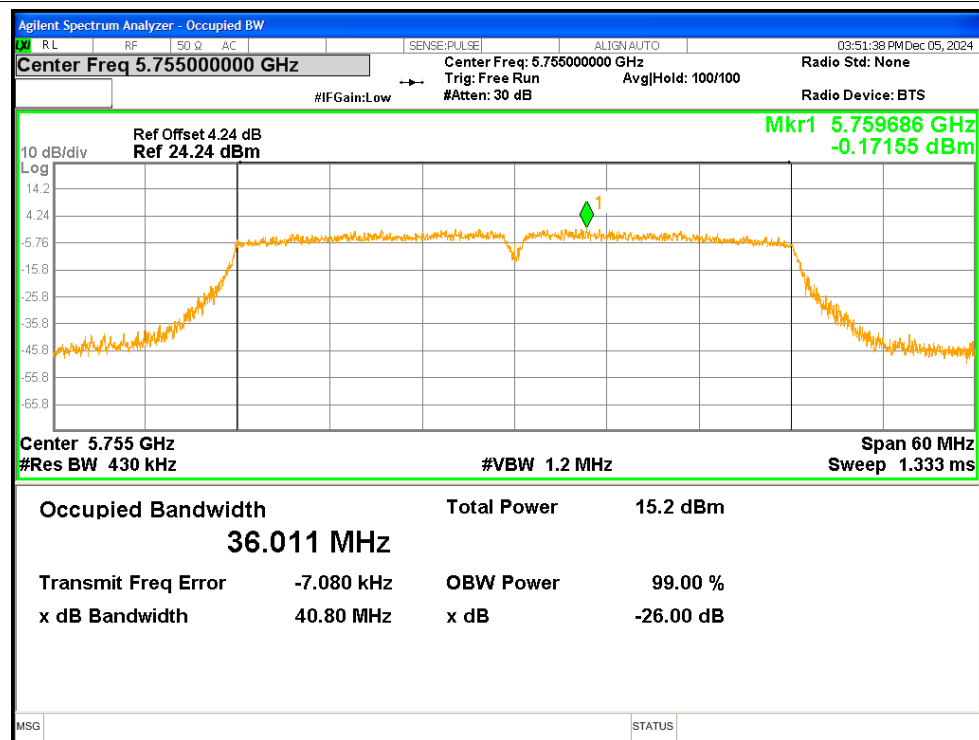
OBW NVNT n20 5825MHz Ant2



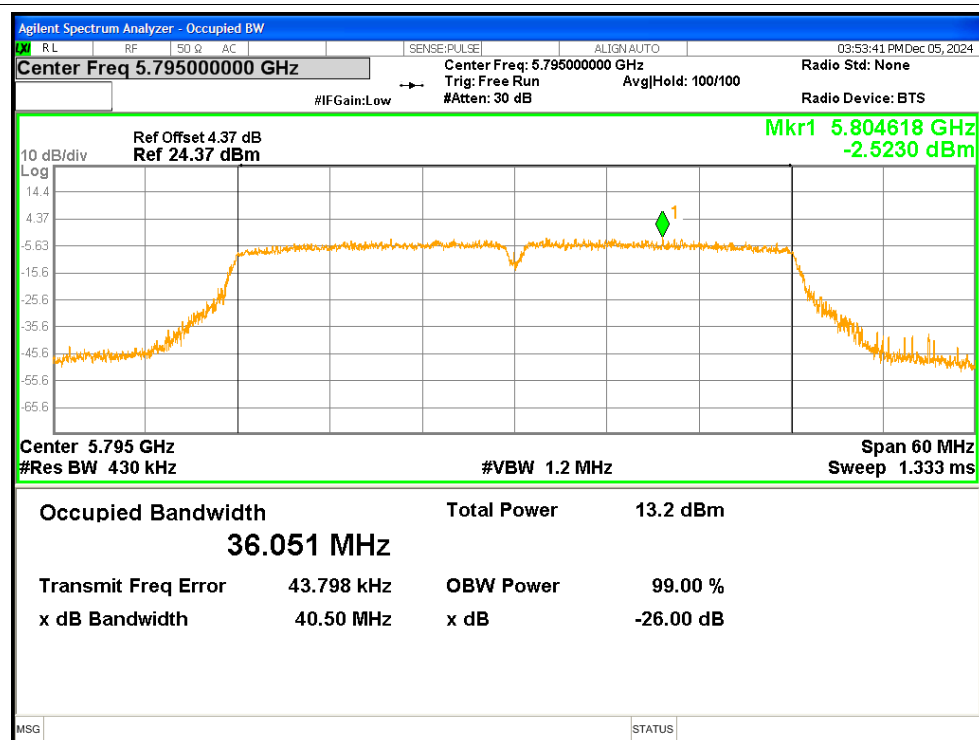
OBW NVNT n40 5755MHz Ant1



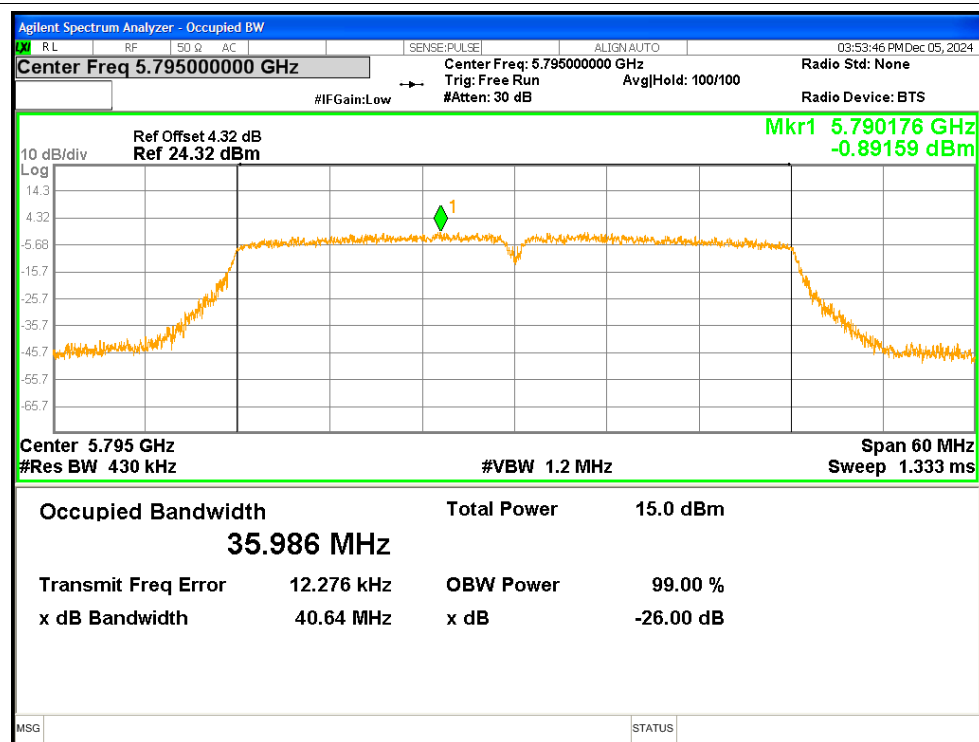
OBW NVNT n40 5755MHz Ant2



OBW NVNT n40 5795MHz Ant1



OBW NVNT n40 5795MHz Ant2

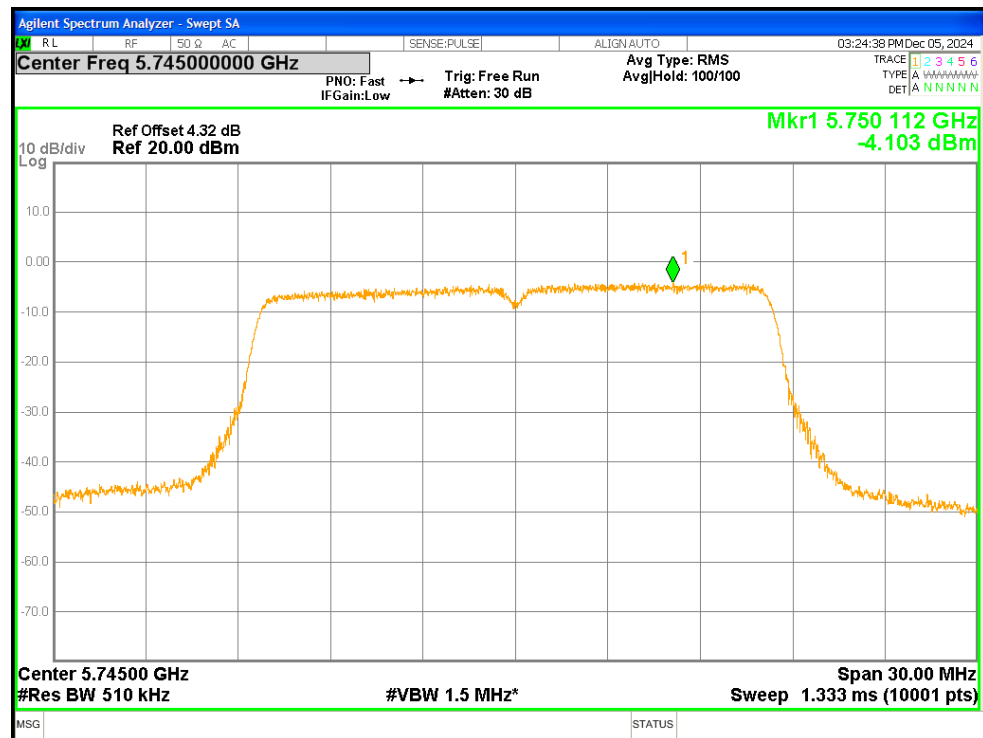


5. Maximum Power Spectral Density Level

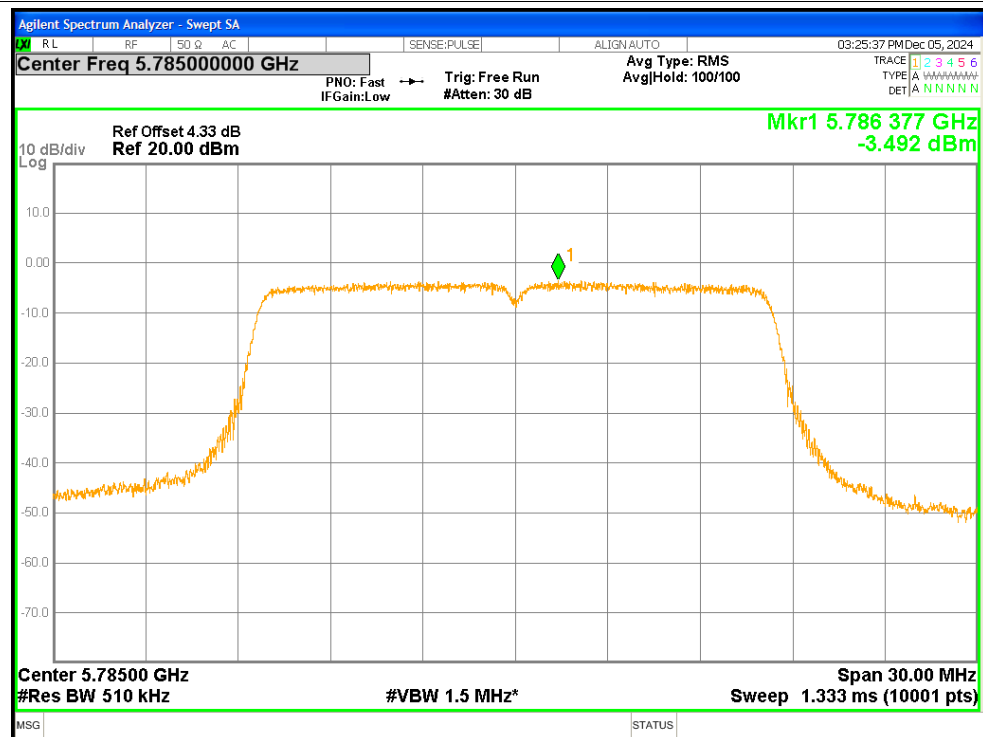
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm/500kHz)	Verdict
NVNT	a	5745	Ant1	-4.103	1.36	-2.743	<=30	Pass
NVNT	a	5785	Ant1	-3.492	1.36	-2.132	<=30	Pass
NVNT	a	5825	Ant1	-2.255	1.36	-0.895	<=30	Pass
NVNT	a	5745	Ant2	-2.611	1.36	-1.251	<=30	Pass
NVNT	a	5785	Ant2	-2.384	1.36	-1.024	<=30	Pass
NVNT	a	5825	Ant2	-2.93	1.36	-1.57	<=30	Pass
NVNT	n20	5745	Ant1	-7.191	1.44	-5.751	<=30	Pass
NVNT	n20	5745	Ant2	-4.843	1.44	-3.403	<=30	Pass
NVNT	n20	5745	Sum	-2.85	1.44	-1.41	<=27.19	Pass
NVNT	n20	5785	Ant1	-7.124	1.44	-5.684	<=30	Pass
NVNT	n20	5785	Ant2	-4.931	1.44	-3.491	<=30	Pass
NVNT	n20	5785	Sum	-2.88	1.44	-1.44	<=27.19	Pass
NVNT	n20	5825	Ant1	-6.159	1.44	-4.719	<=30	Pass
NVNT	n20	5825	Ant2	-5.621	1.44	-4.181	<=30	Pass
NVNT	n20	5825	Sum	-2.871	1.44	-1.431	<=27.19	Pass
NVNT	n40	5755	Ant1	-11.299	2.52	-8.779	<=30	Pass
NVNT	n40	5755	Ant2	-8.259	2.52	-5.739	<=30	Pass
NVNT	n40	5755	Sum	-6.508	2.52	-3.988	<=27.19	Pass
NVNT	n40	5795	Ant1	-10.516	2.52	-7.996	<=30	Pass
NVNT	n40	5795	Ant2	-8.628	2.52	-6.108	<=30	Pass
NVNT	n40	5795	Sum	-6.46	2.52	-3.94	<=27.19	Pass

Test Graphs

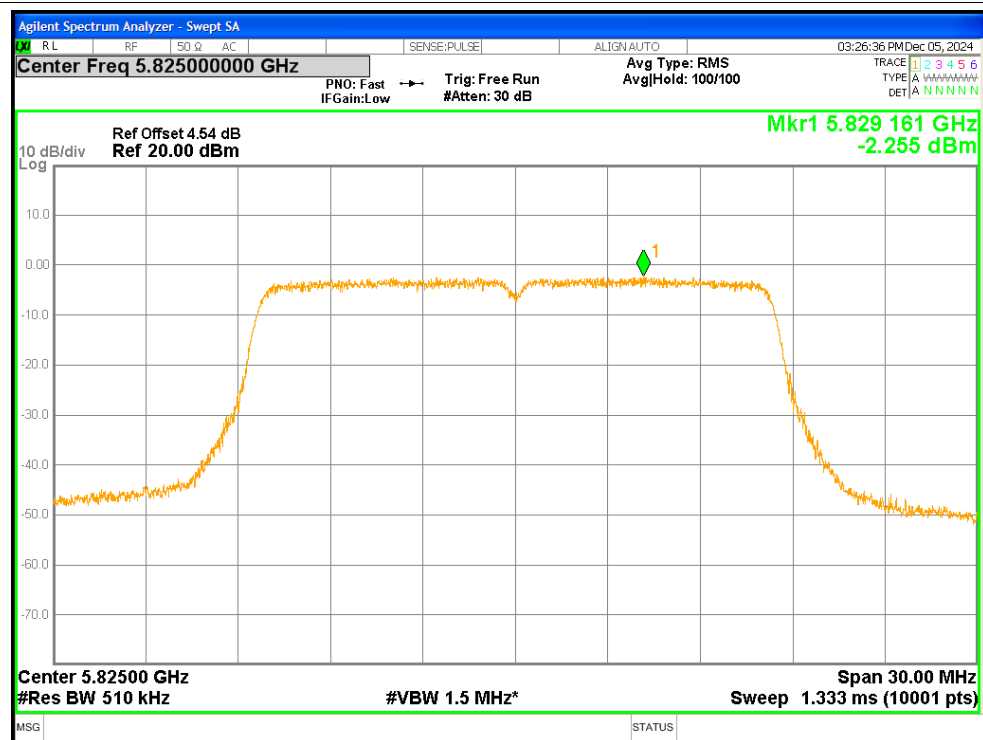
PSD NVNT a 5745MHz Ant1



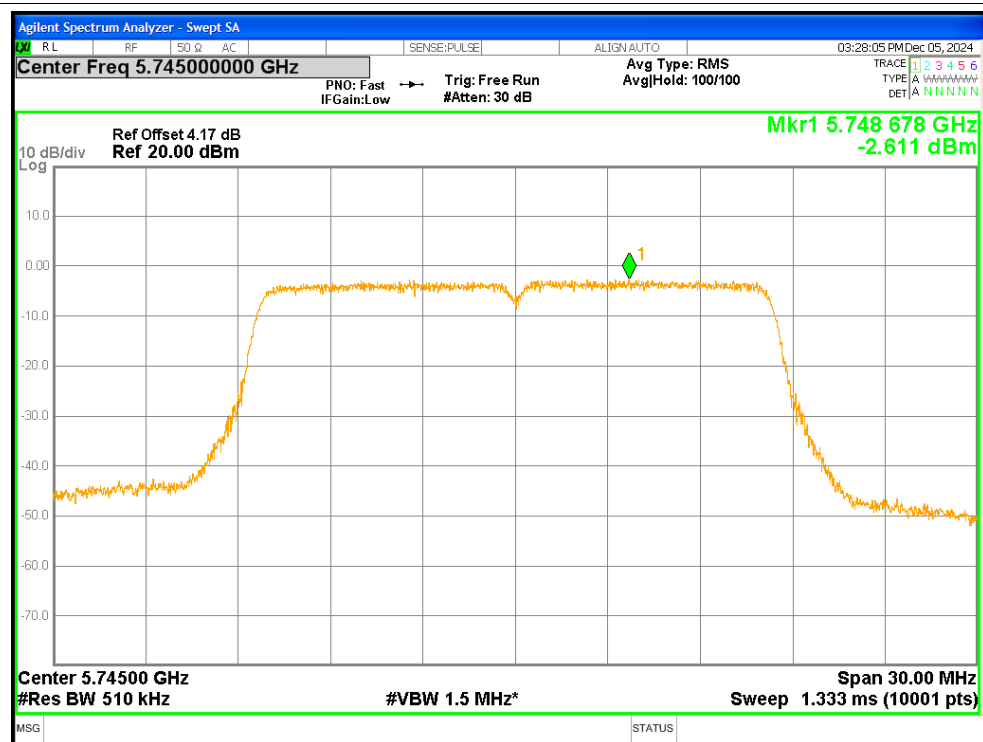
PSD NVNT a 5785MHz Ant1



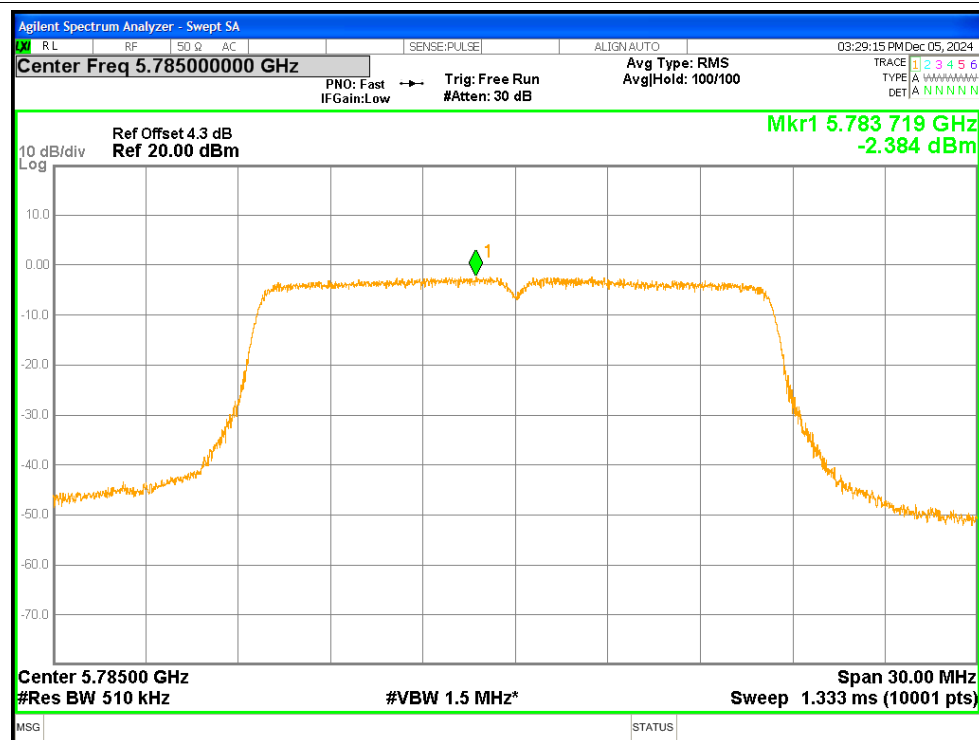
PSD NVNT a 5825MHz Ant1



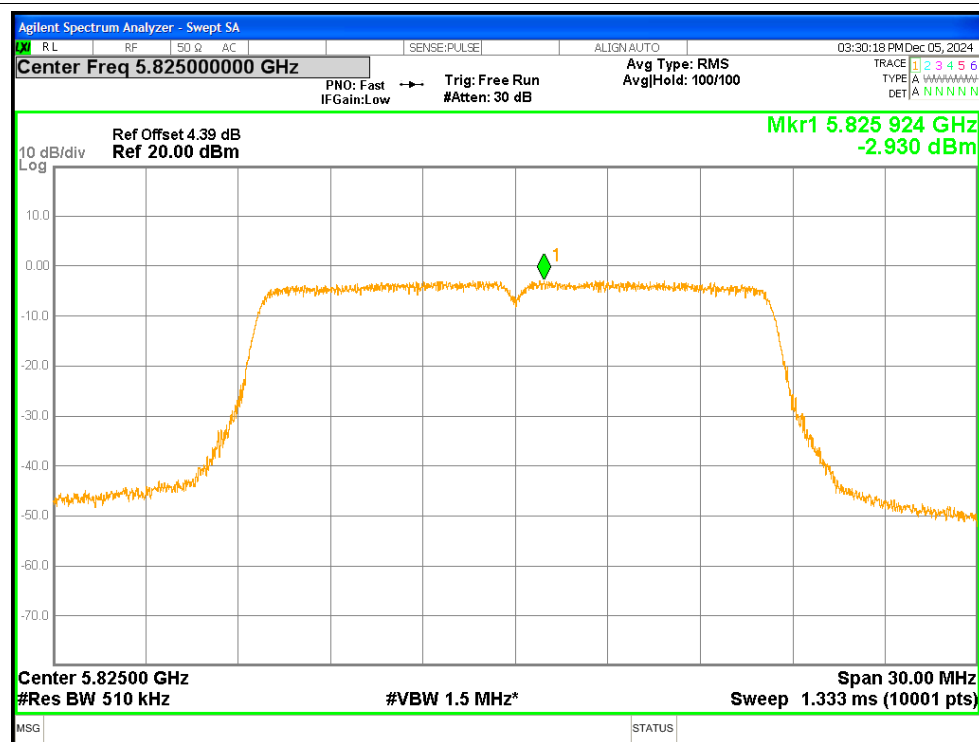
PSD NVNT a 5745MHz Ant2



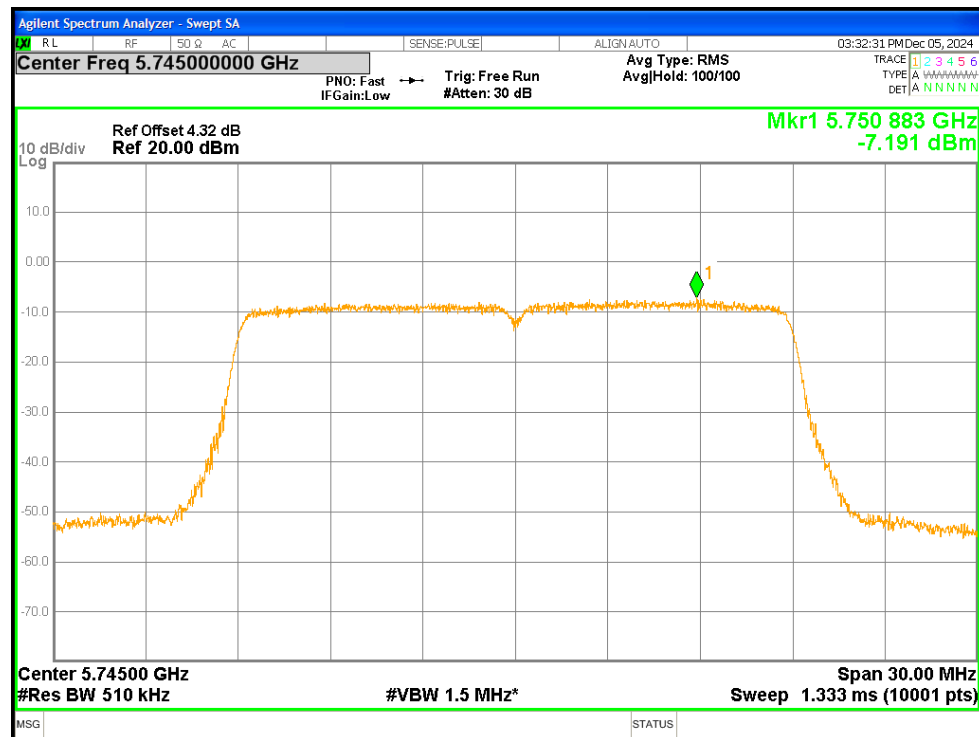
PSD NVNT a 5785MHz Ant2



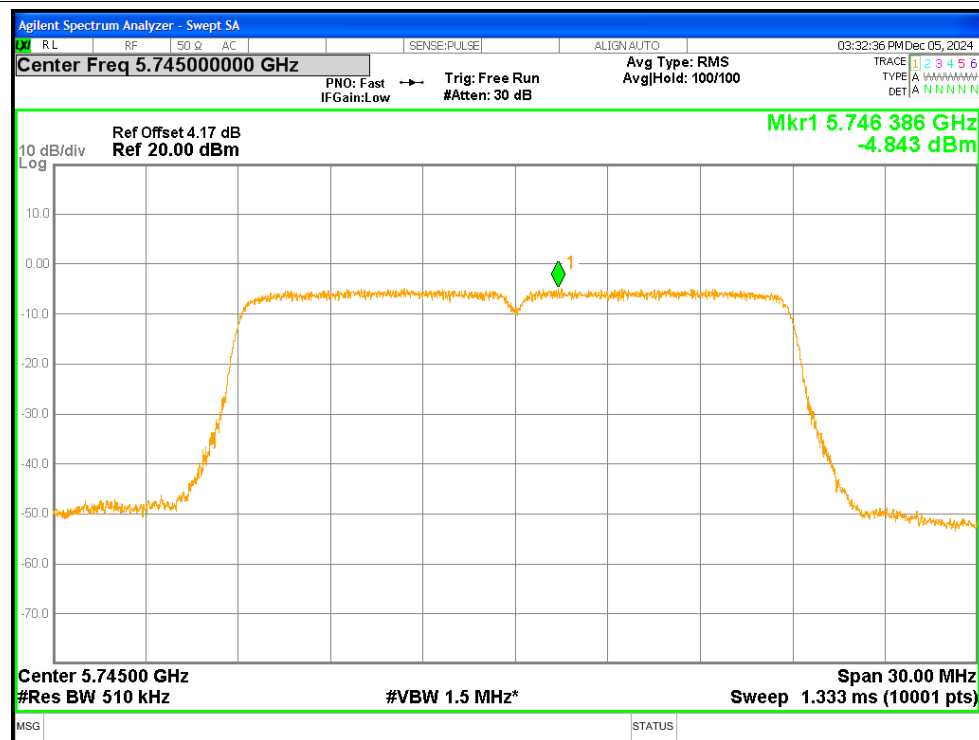
PSD NVNT a 5825MHz Ant2



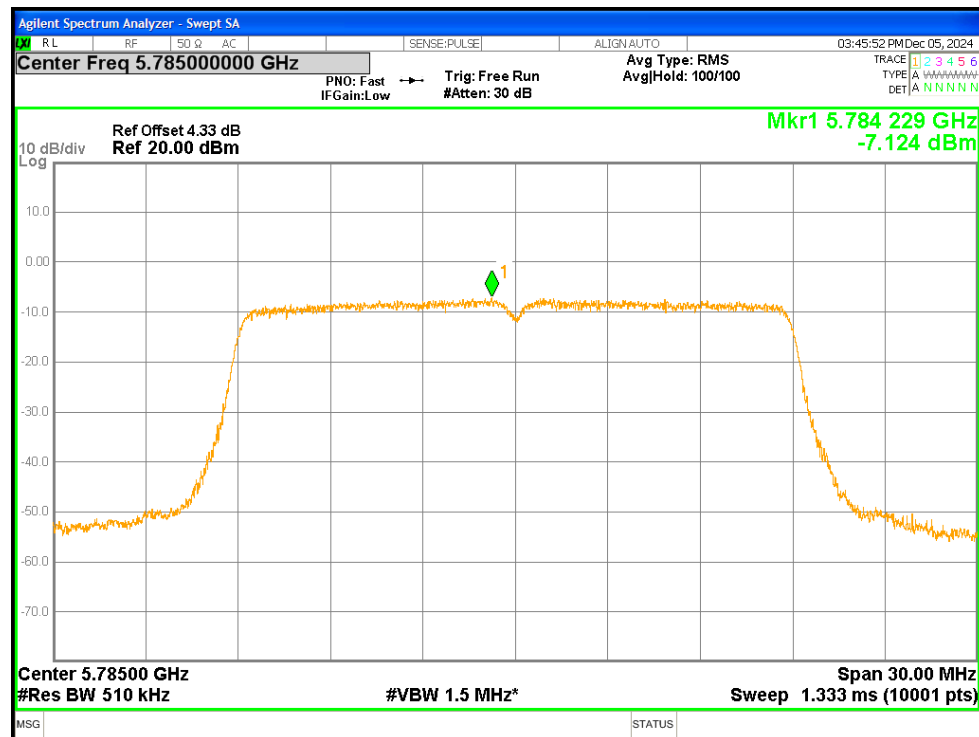
PSD NVNT n20 5745MHz Ant1



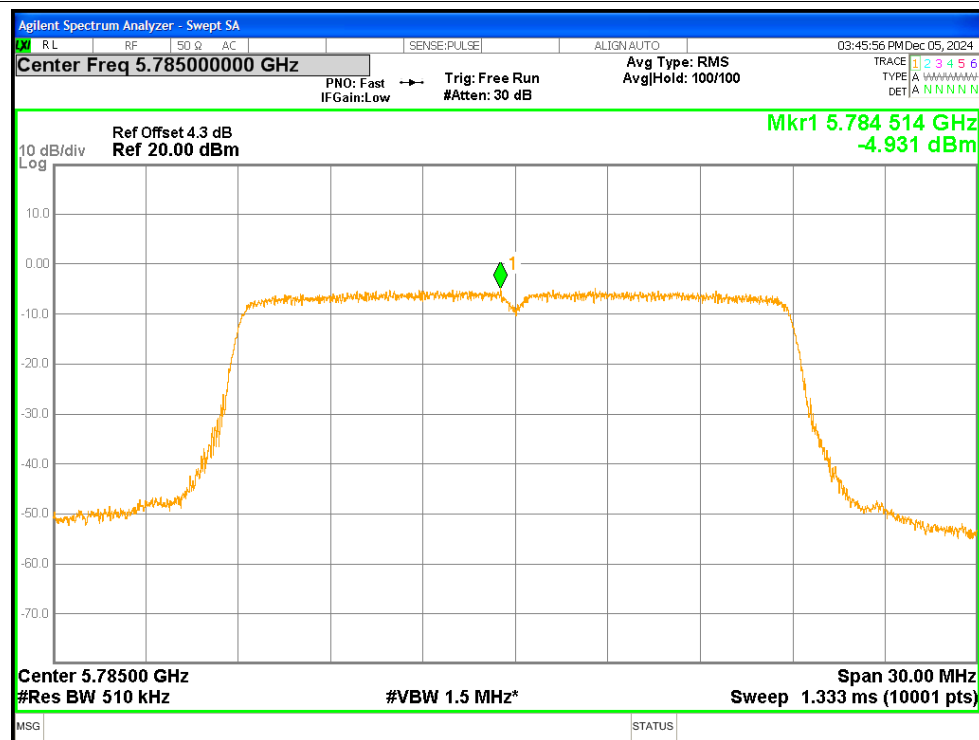
PSD NVNT n20 5745MHz Ant2



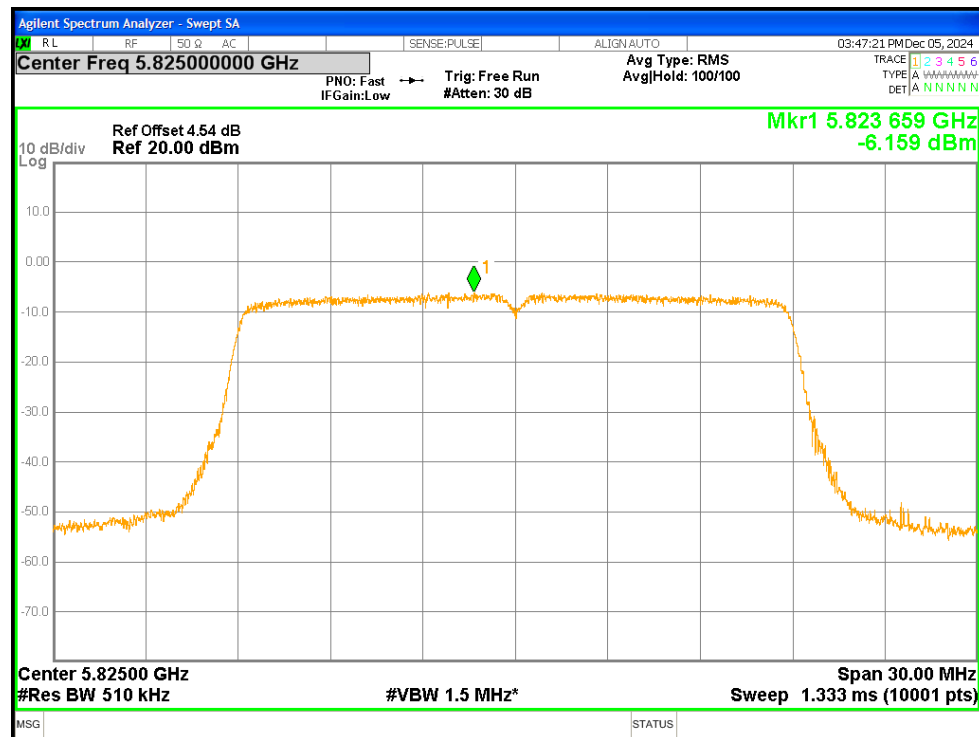
PSD NVNT n20 5785MHz Ant1



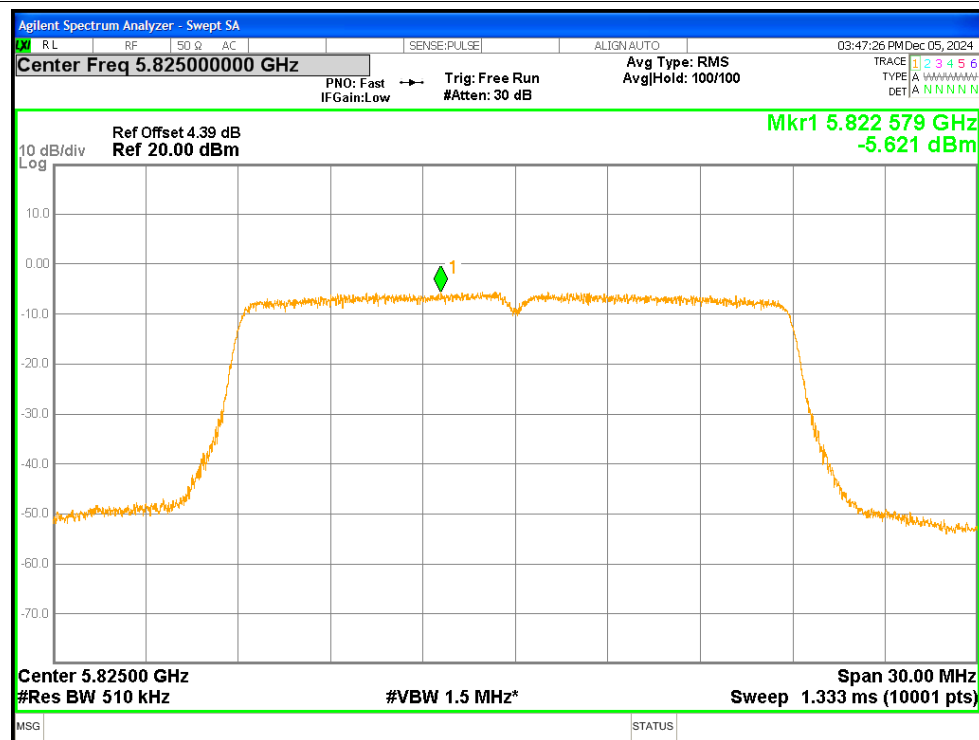
PSD NVNT n20 5785MHz Ant2



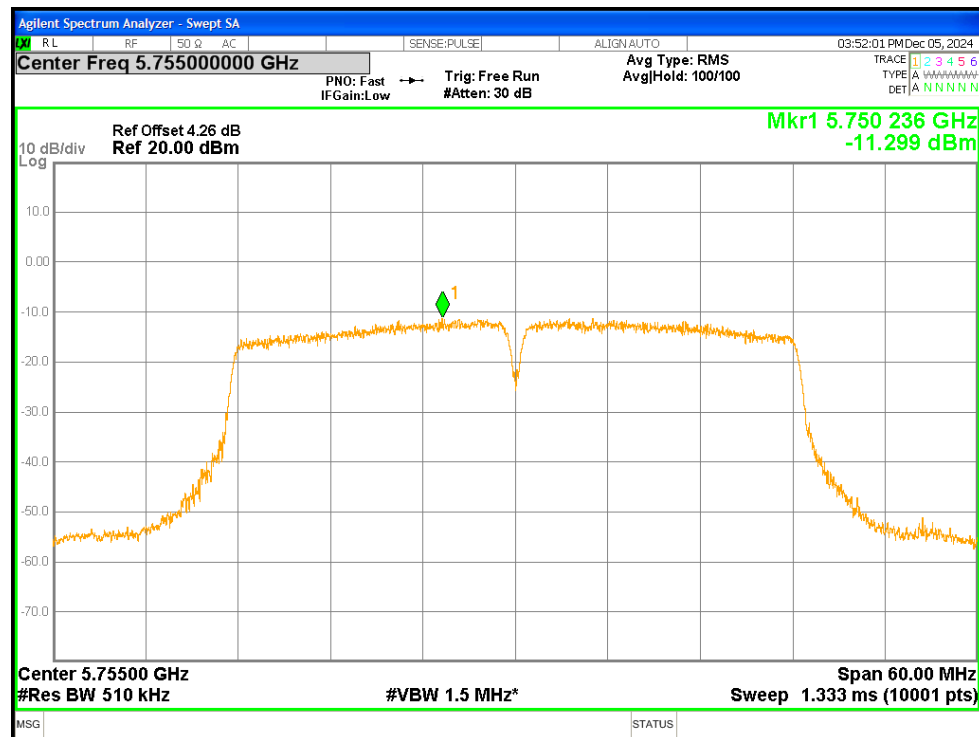
PSD NVNT n20 5825MHz Ant1



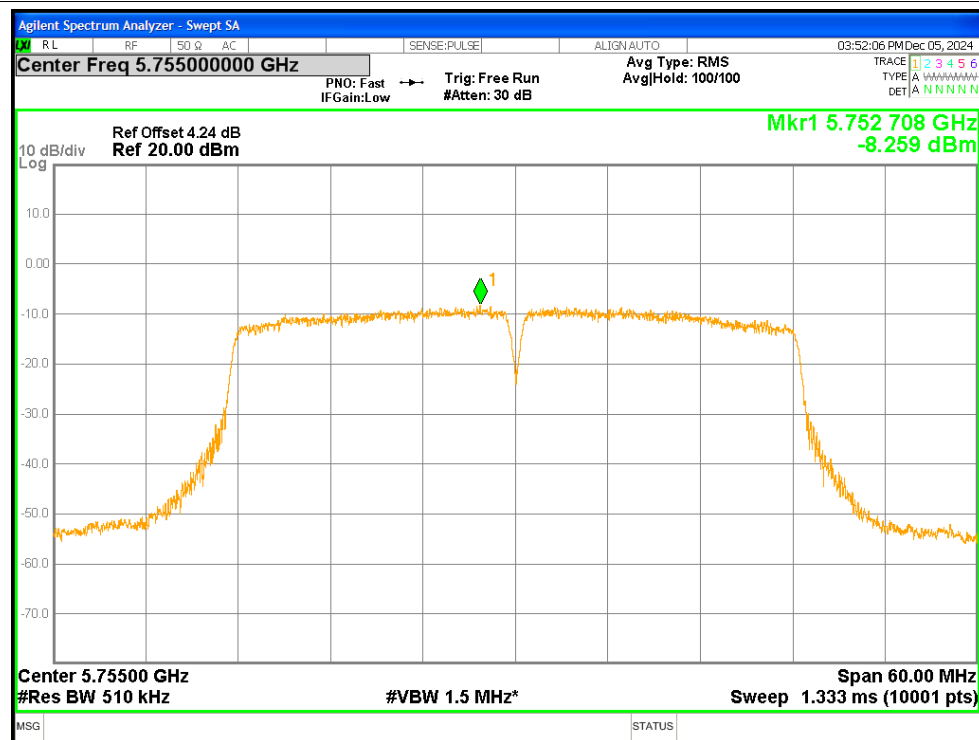
PSD NVNT n20 5825MHz Ant2



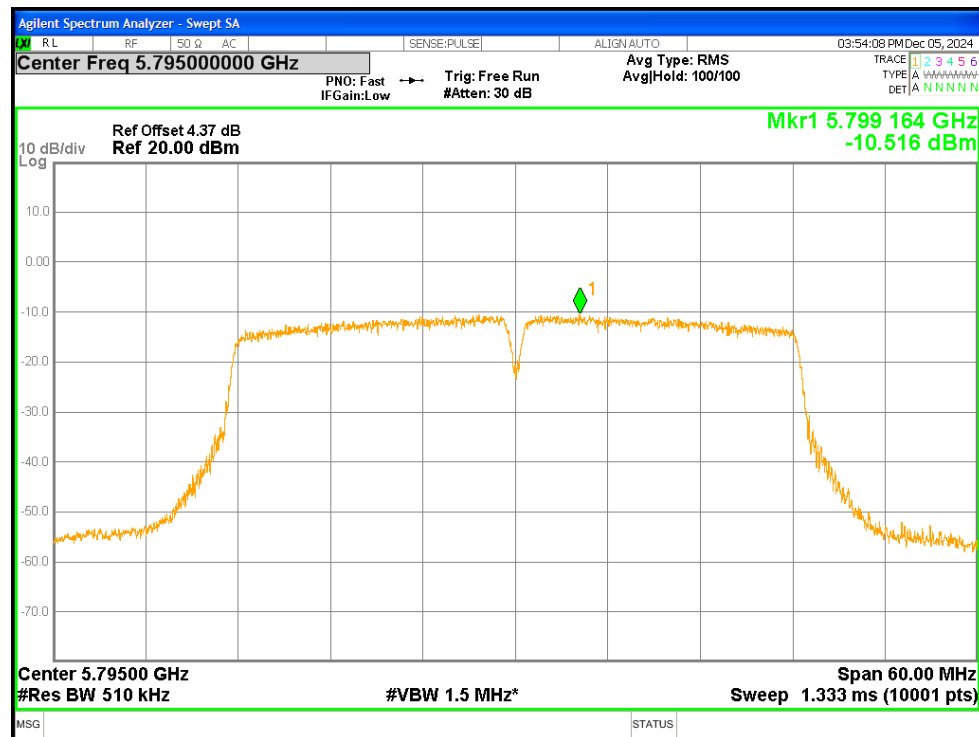
PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5755MHz Ant2



PSD NVNT n40 5795MHz Ant1



PSD NVNT n40 5795MHz Ant2

