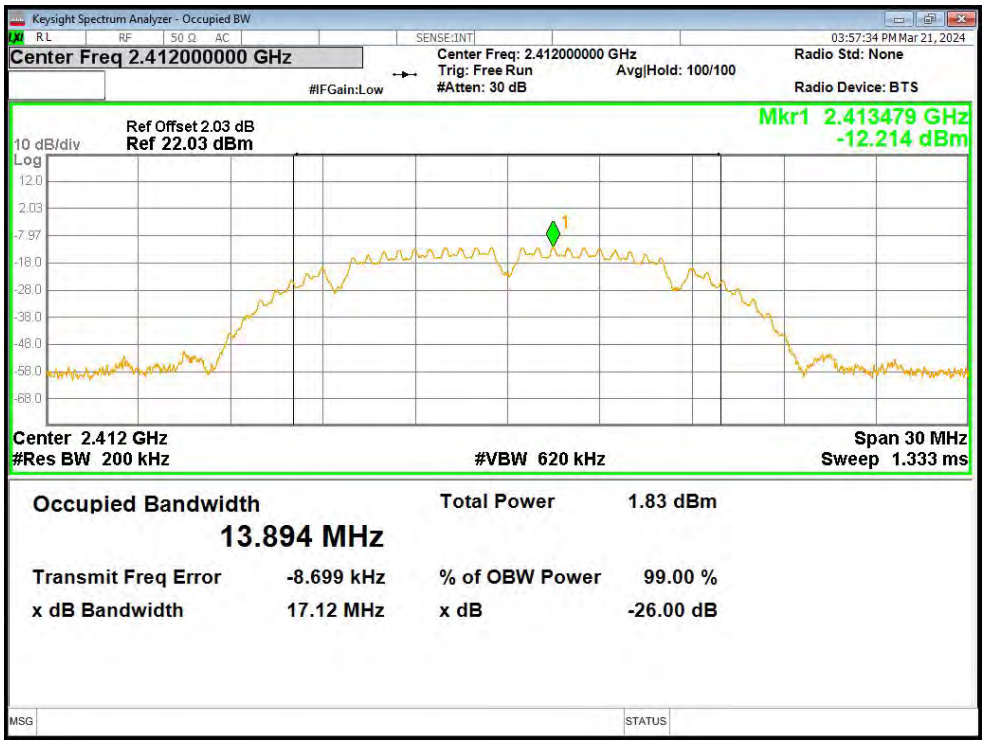
A5. Occupied Channel Bandwidth

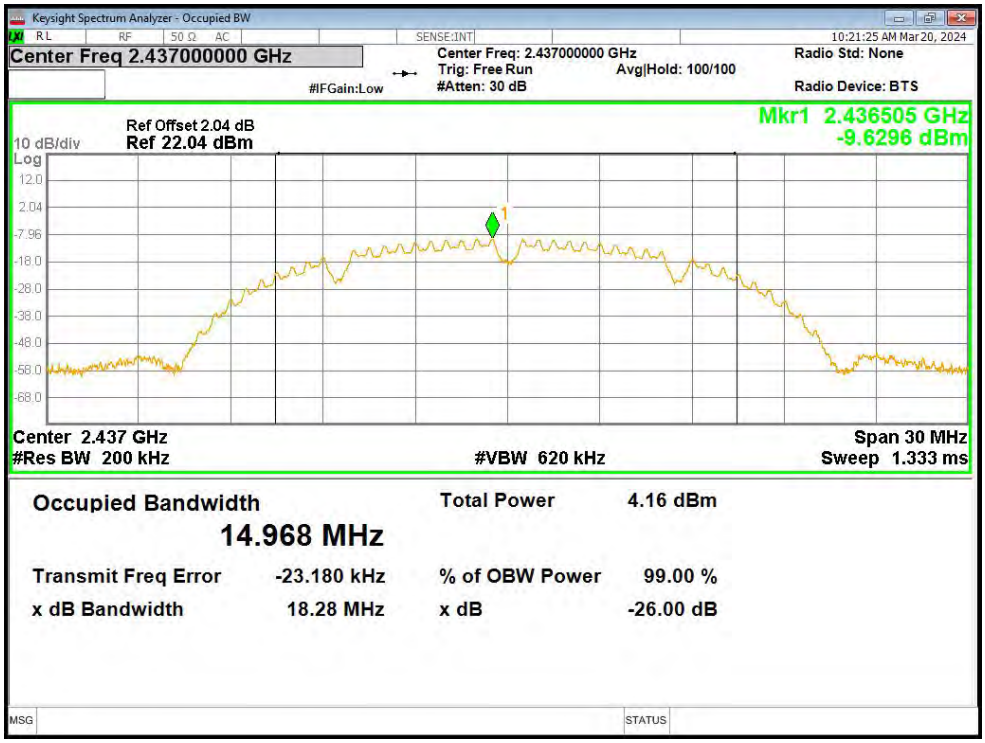
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.894
NVNT	b	2437	Ant1	14.968
NVNT	b	2462	Ant1	14.943
NVNT	b	2412	Ant2	15.014
NVNT	b	2437	Ant2	14.947
NVNT	b	2462	Ant2	14.953
NVNT	g	2412	Ant1	16.542
NVNT	g	2437	Ant1	16.52
NVNT	g	2462	Ant1	16.573
NVNT	g	2412	Ant2	16.562
NVNT	g	2437	Ant2	16.572
NVNT	g	2462	Ant2	16.54
NVNT	n20	2412	Ant1	17.66
NVNT	n20	2437	Ant1	17.664
NVNT	n20	2462	Ant1	17.619
NVNT	n20	2412	Ant2	17.653
NVNT	n20	2437	Ant2	17.605
NVNT	n20	2462	Ant2	17.632
NVNT	n40	2422	Ant1	36.184
NVNT	n40	2437	Ant1	36.123
NVNT	n40	2452	Ant1	36.13
NVNT	n40	2422	Ant2	36.233
NVNT	n40	2437	Ant2	36.139
NVNT	n40	2452	Ant2	36.185
NVNT	ax20	2412	Ant1	18.554
NVNT	ax20	2437	Ant1	18.847
NVNT	ax20	2462	Ant1	18.864
NVNT	ax20	2412	Ant2	18.873
NVNT	ax20	2437	Ant2	18.865
NVNT	ax20	2462	Ant2	18.904
NVNT	ax40	2422	Ant1	37.722
NVNT	ax40	2437	Ant1	37.729
NVNT	ax40	2452	Ant1	37.723
NVNT	ax40	2422	Ant2	37.696
NVNT	ax40	2437	Ant2	37.693
NVNT	ax40	2452	Ant2	37.755

Test Graphs

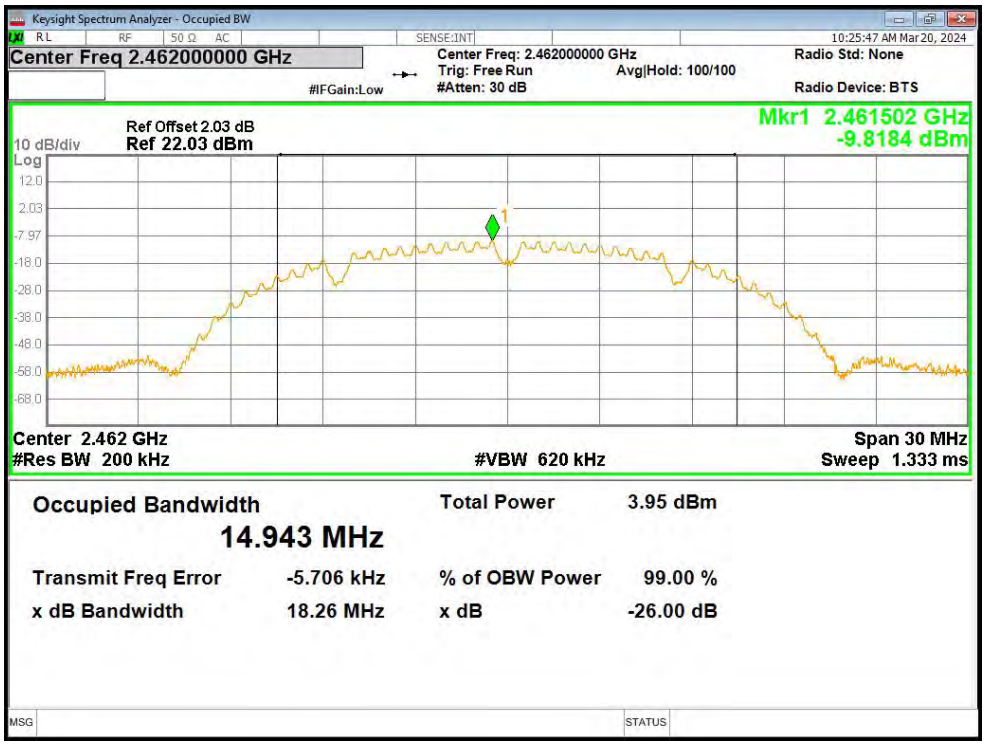
OBW NVNT b 2412MHz Ant1



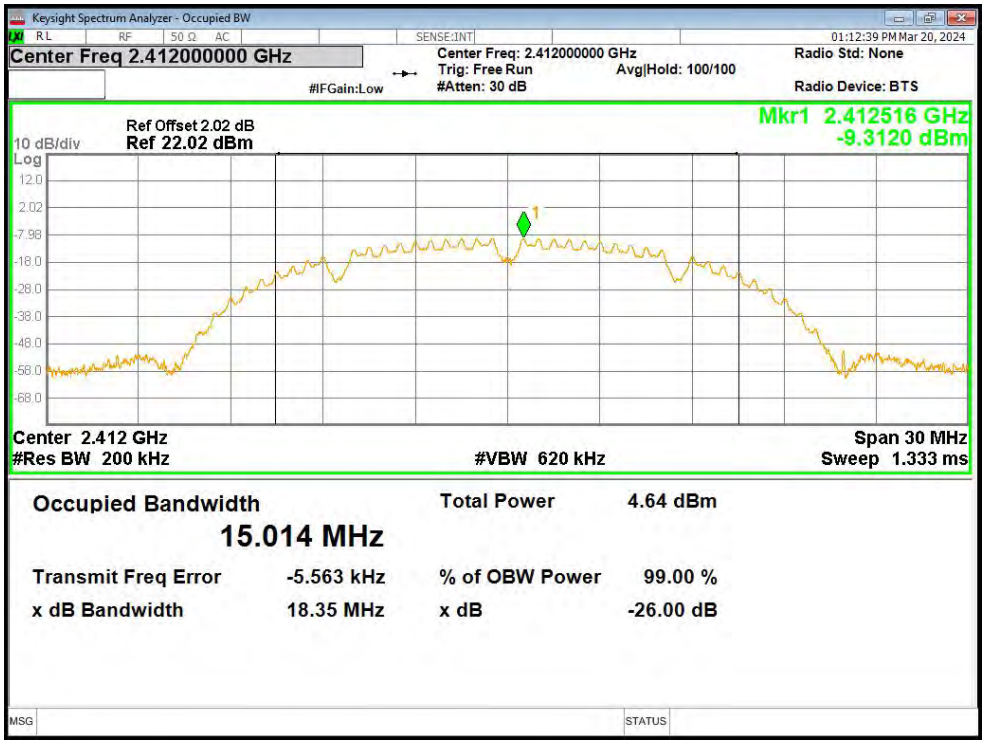
OBW NVNT b 2437MHz Ant1



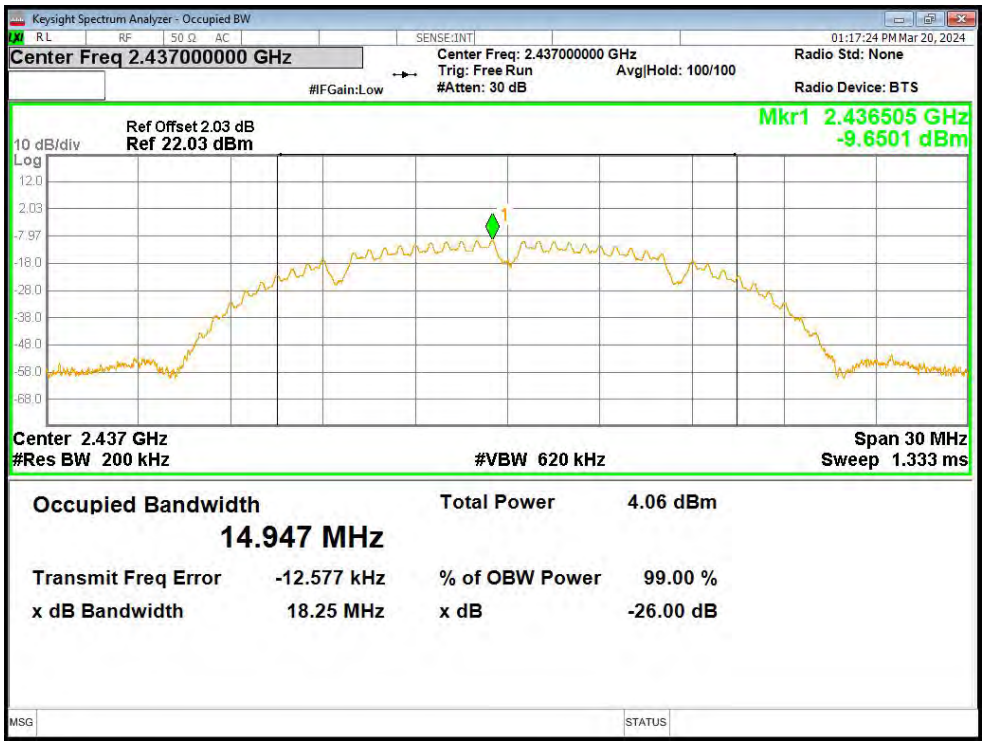
OBW NVNT b 2462MHz Ant1



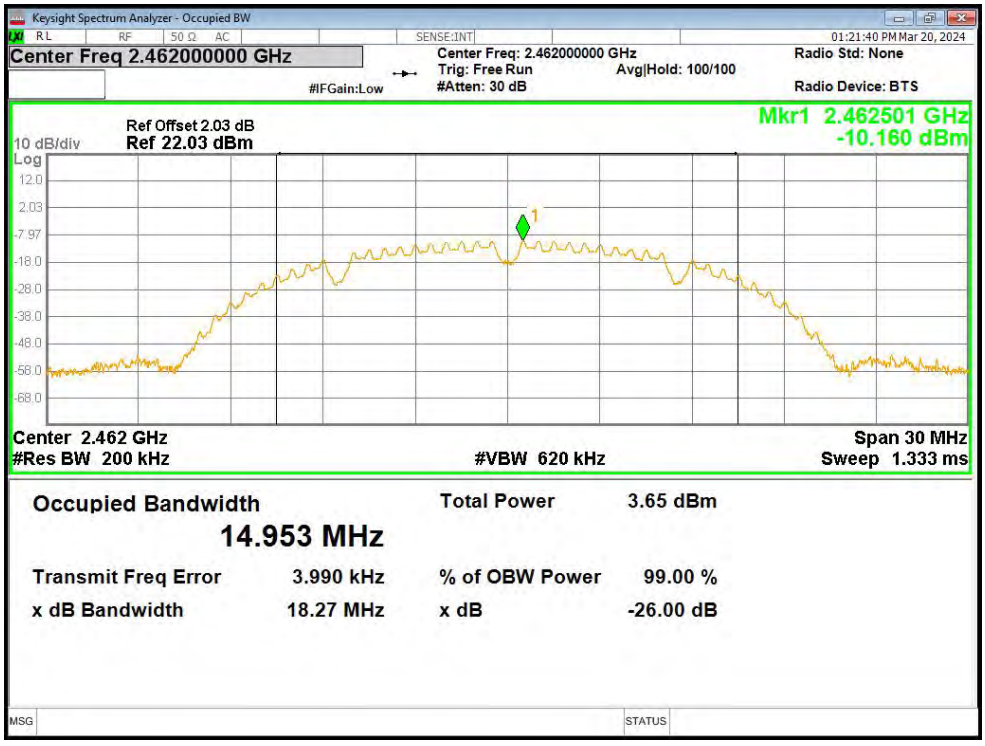
OBW NVNT b 2412MHz Ant2



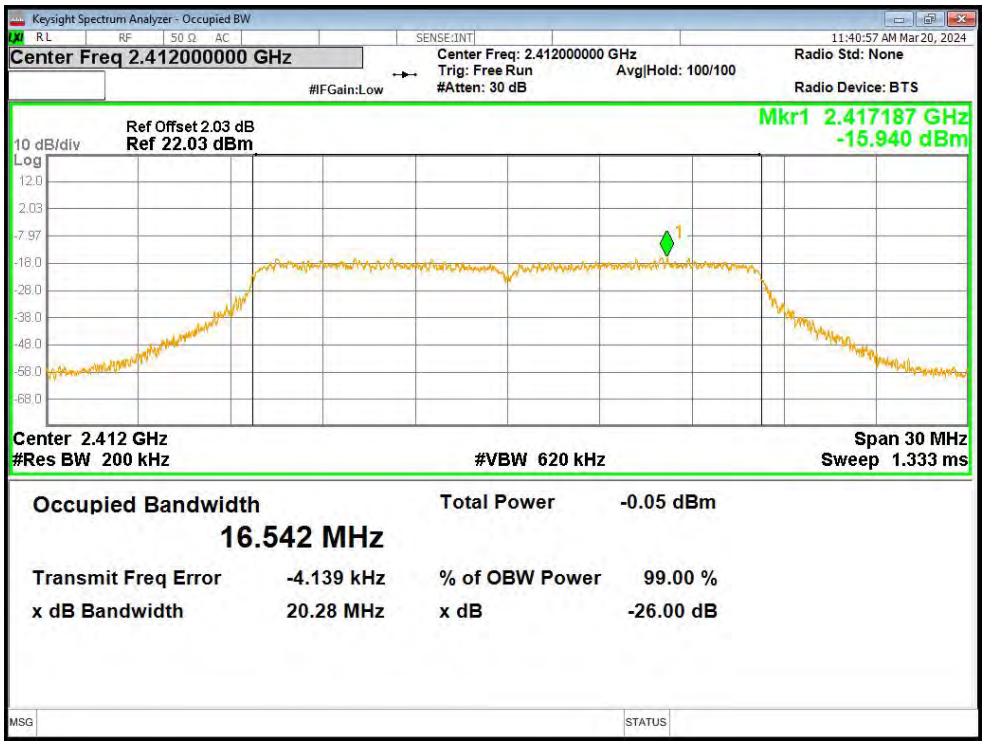
OBW NVNT b 2437MHz Ant2



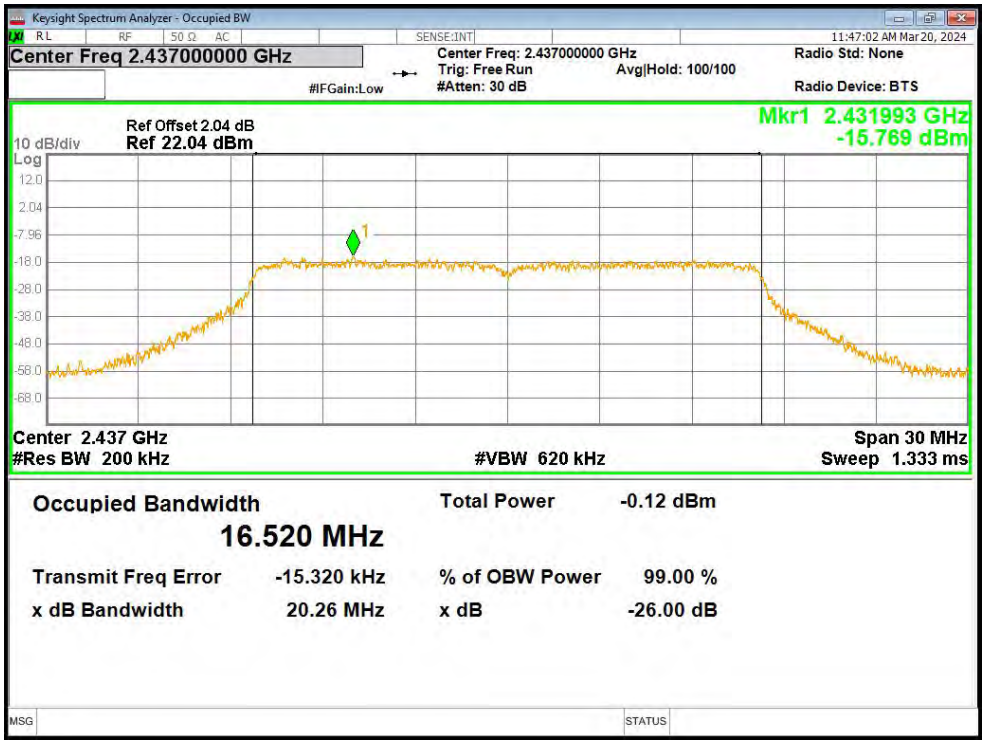
OBW NVNT b 2462MHz Ant2



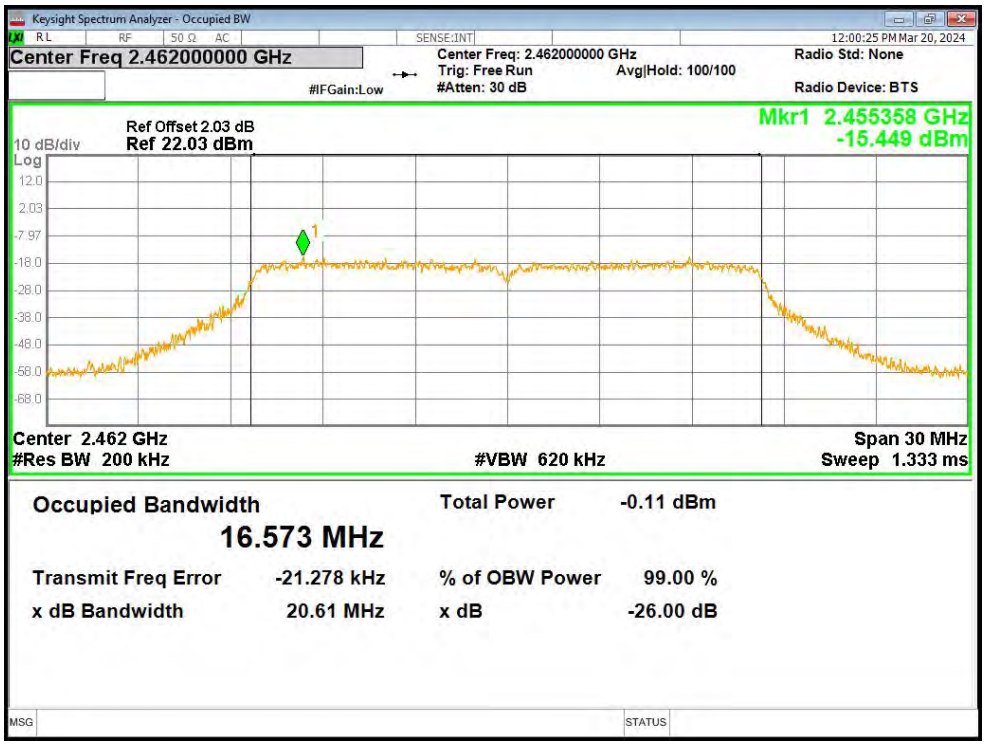
OBW NVNT g 2412MHz Ant1



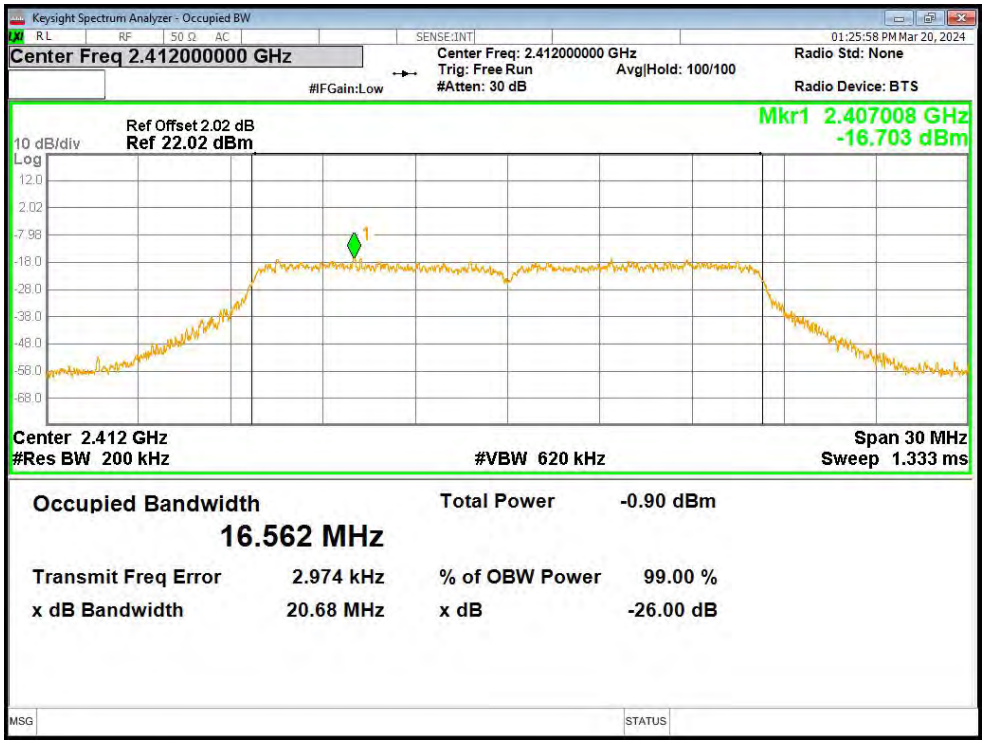
OBW NVNT g 2437MHz Ant1



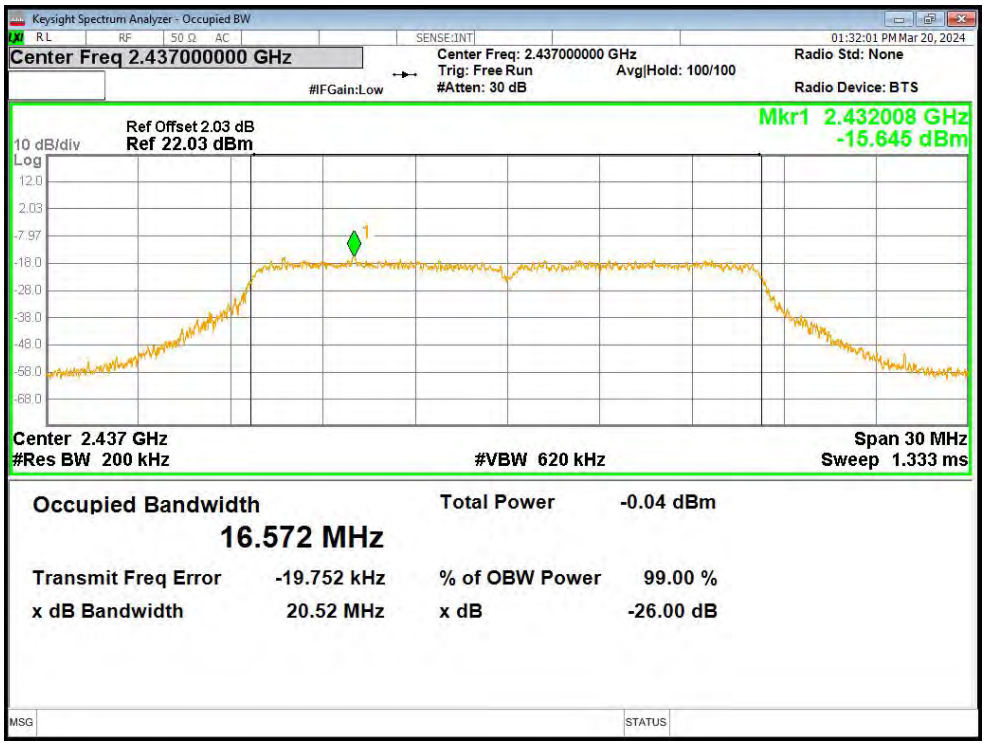
OBW NVNT g 2462MHz Ant1



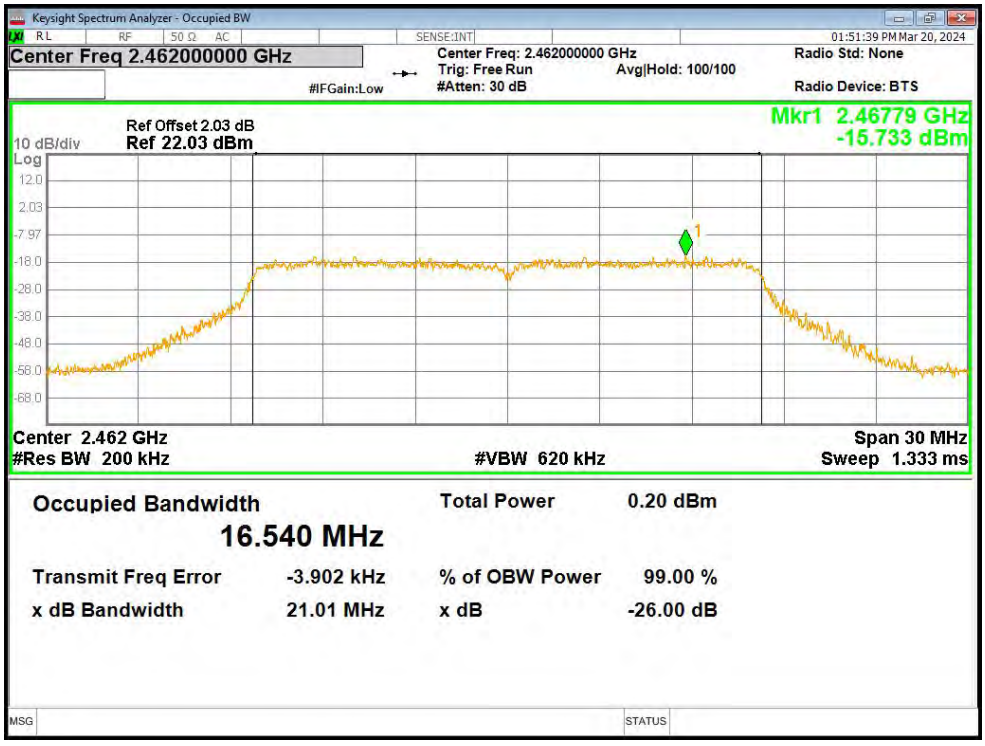
OBW NVNT g 2412MHz Ant2



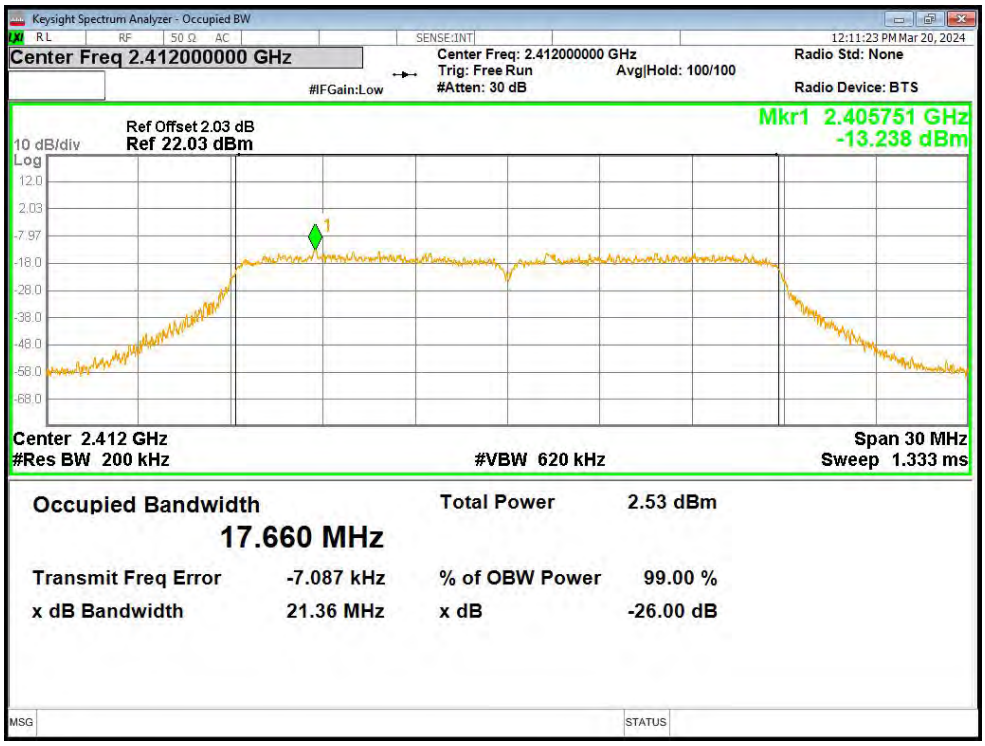
OBW NVNT g 2437MHz Ant2



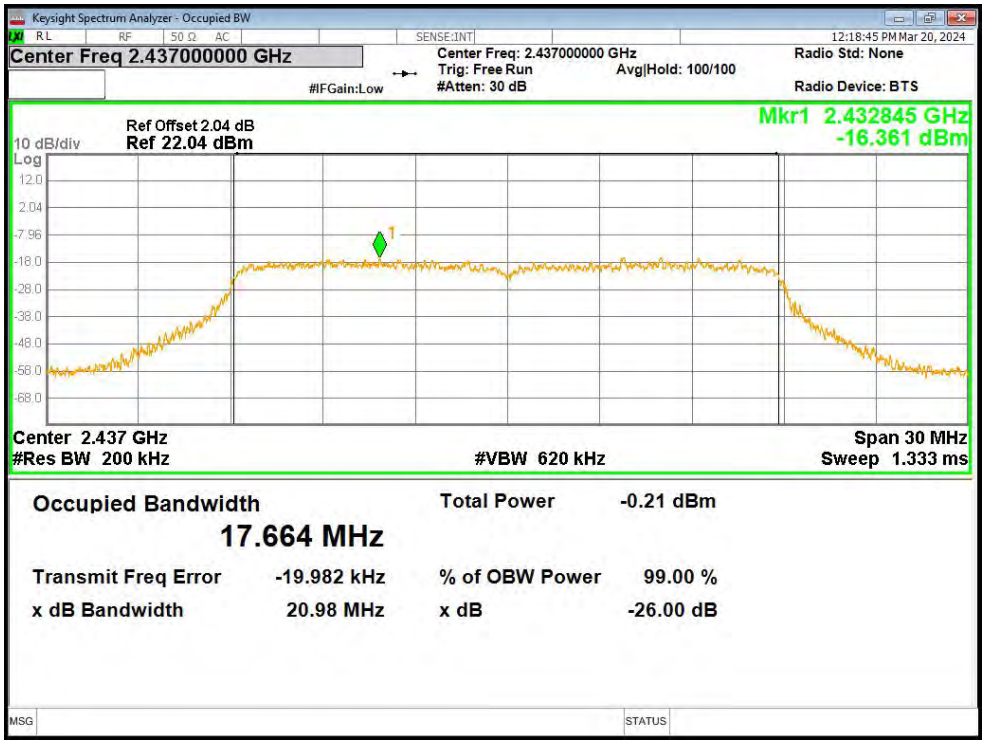
OBW NVNT g 2462MHz Ant2



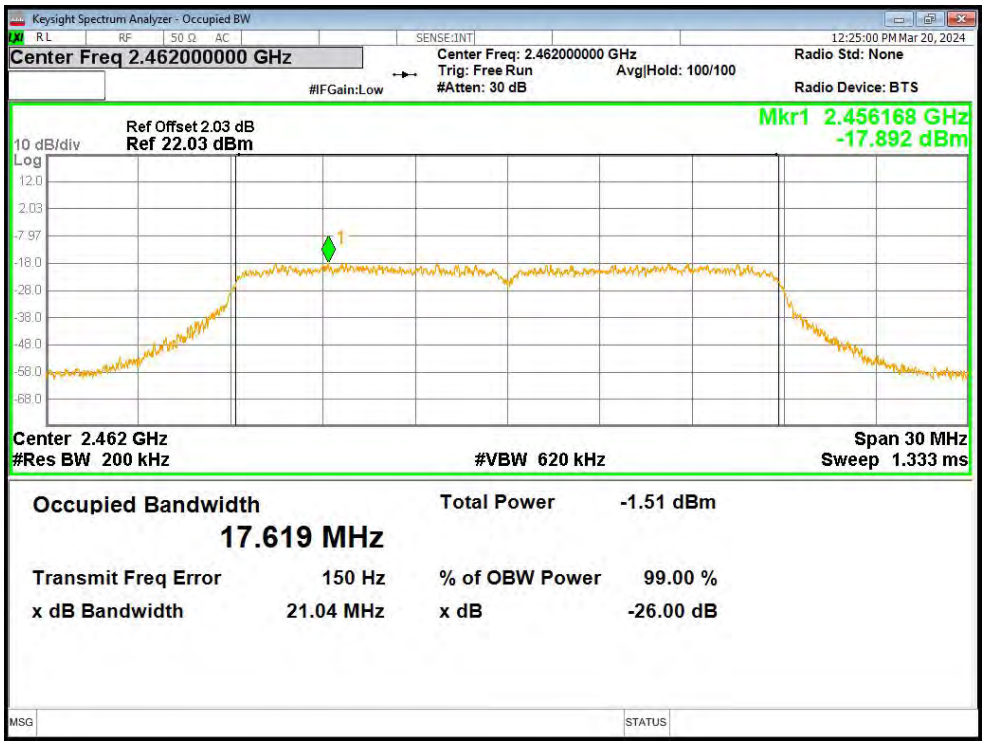
OBW NVNT n20 2412MHz Ant1



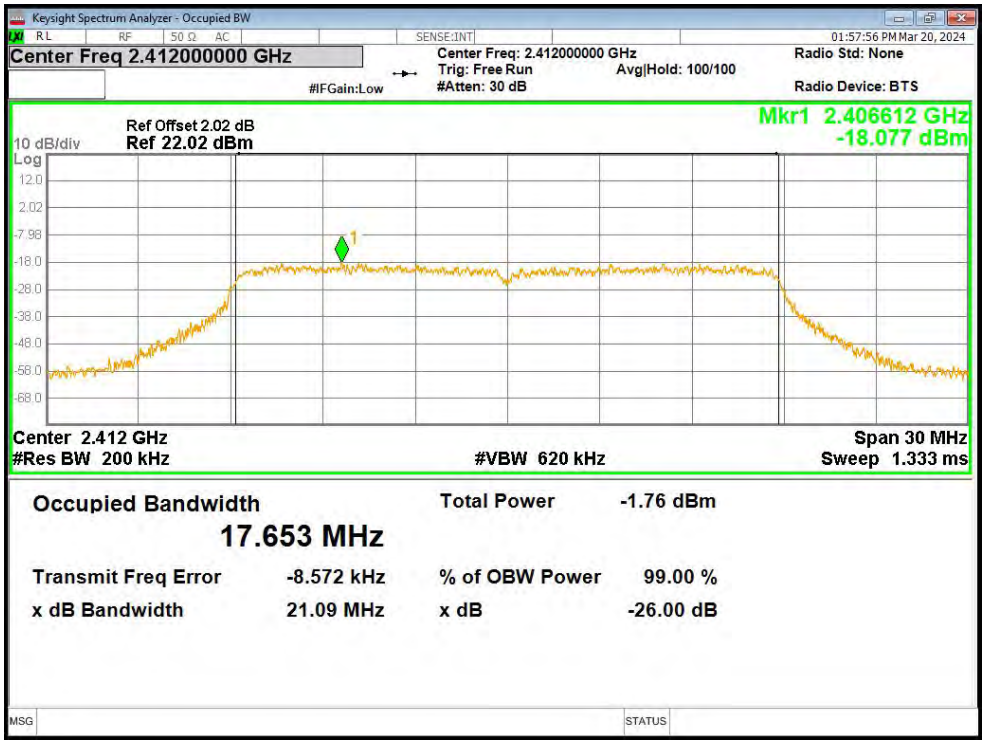
OBW NVNT n20 2437MHz Ant1



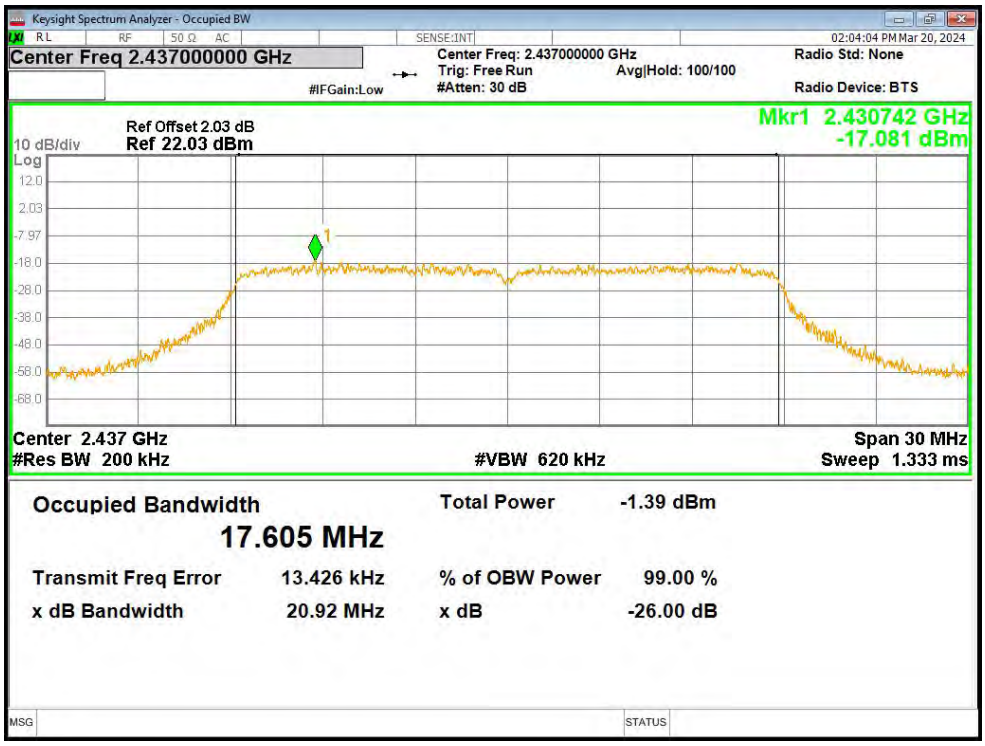
OBW NVNT n20 2462MHz Ant1



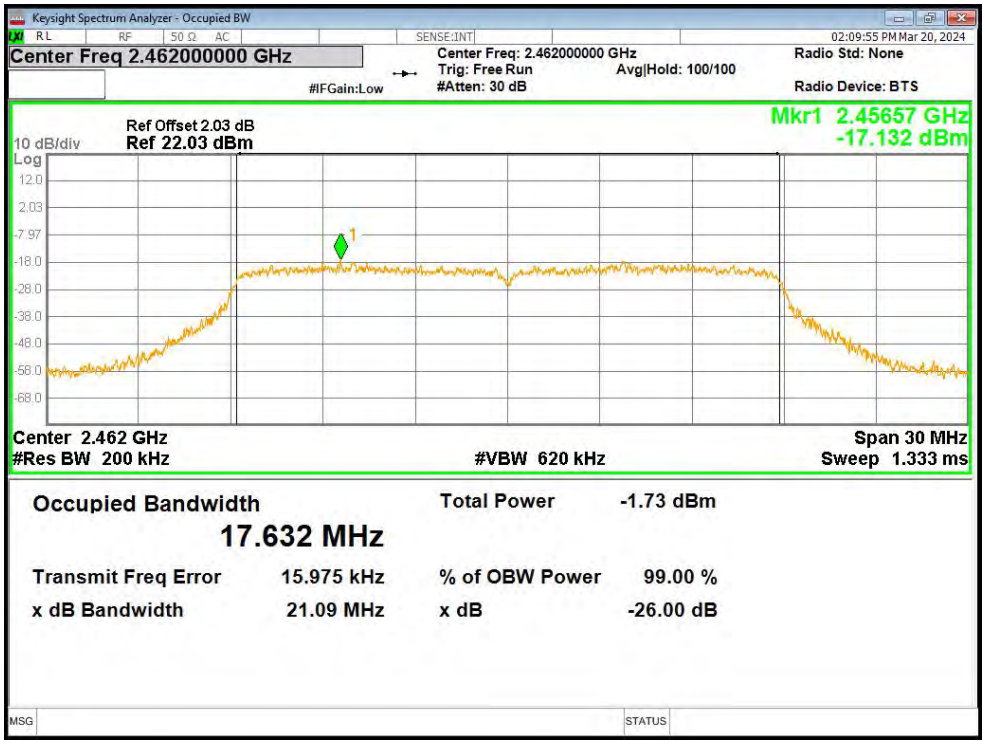
OBW NVNT n20 2412MHz Ant2



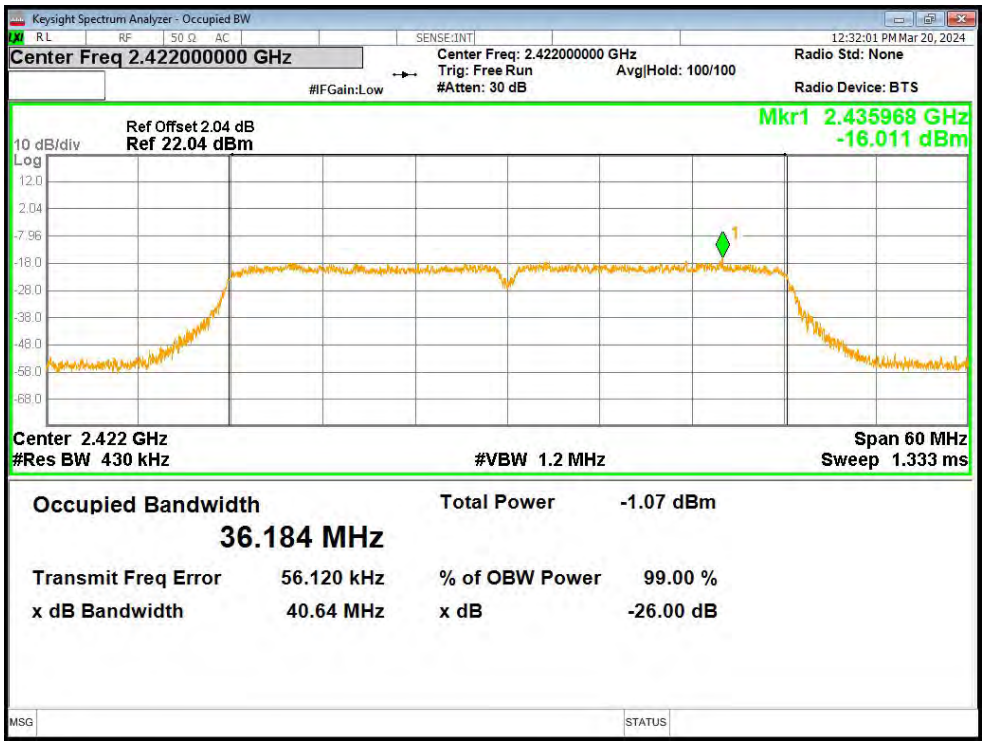
OBW NVNT n20 2437MHz Ant2



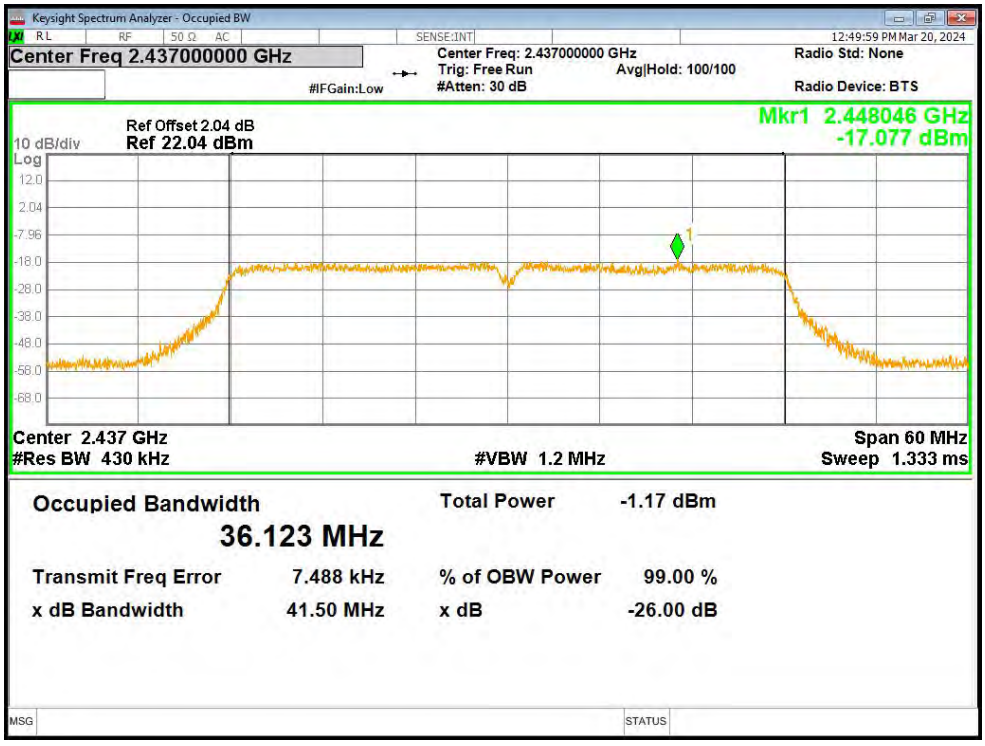
OBW NVNT n20 2462MHz Ant2



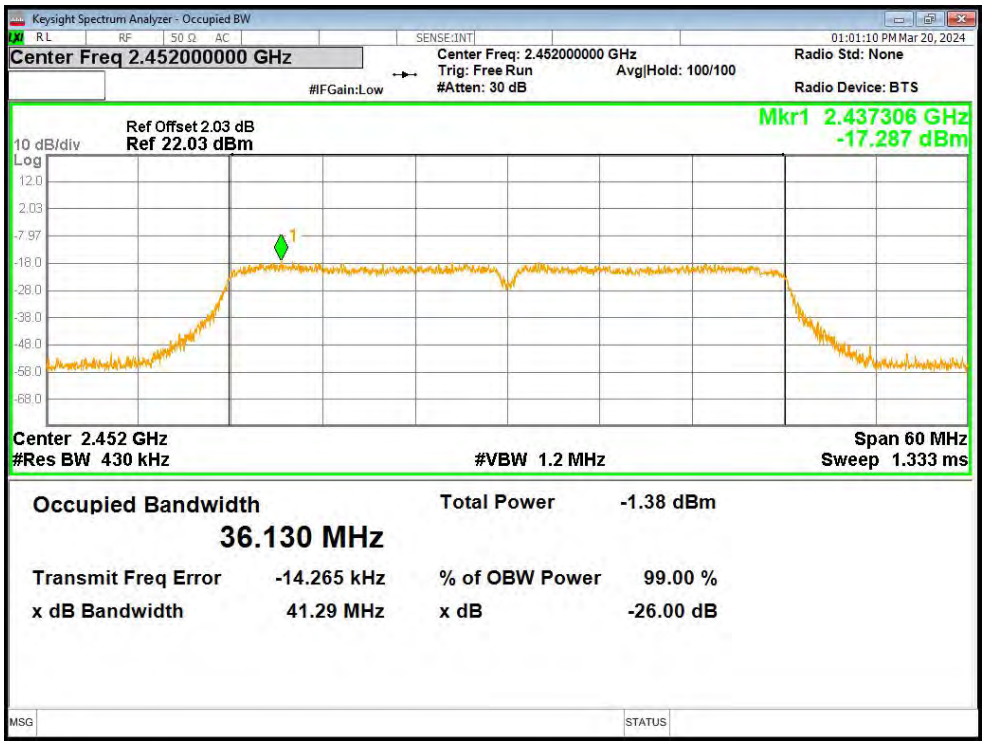
OBW NVNT n40 2422MHz Ant1



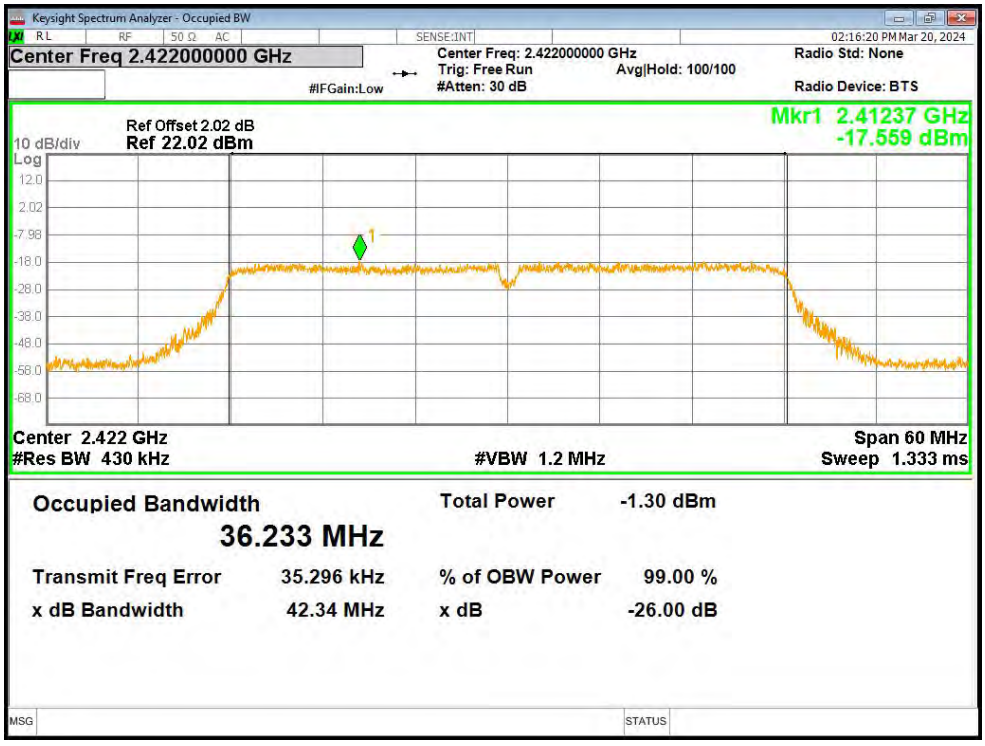
OBW NVNT n40 2437MHz Ant1



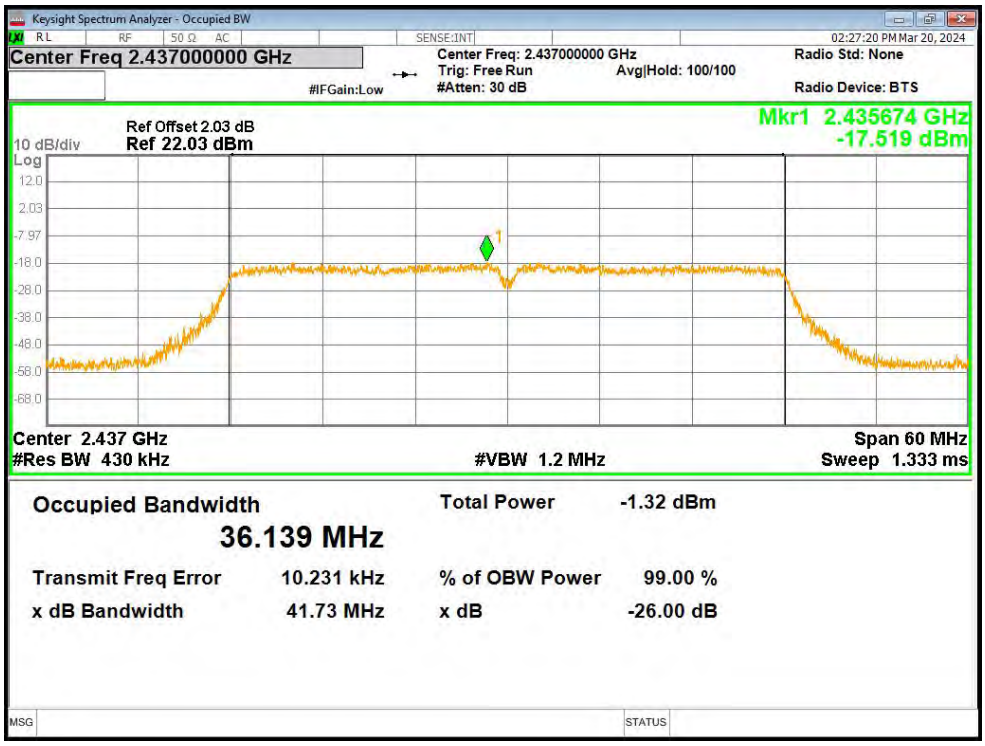
OBW NVNT n40 2452MHz Ant1



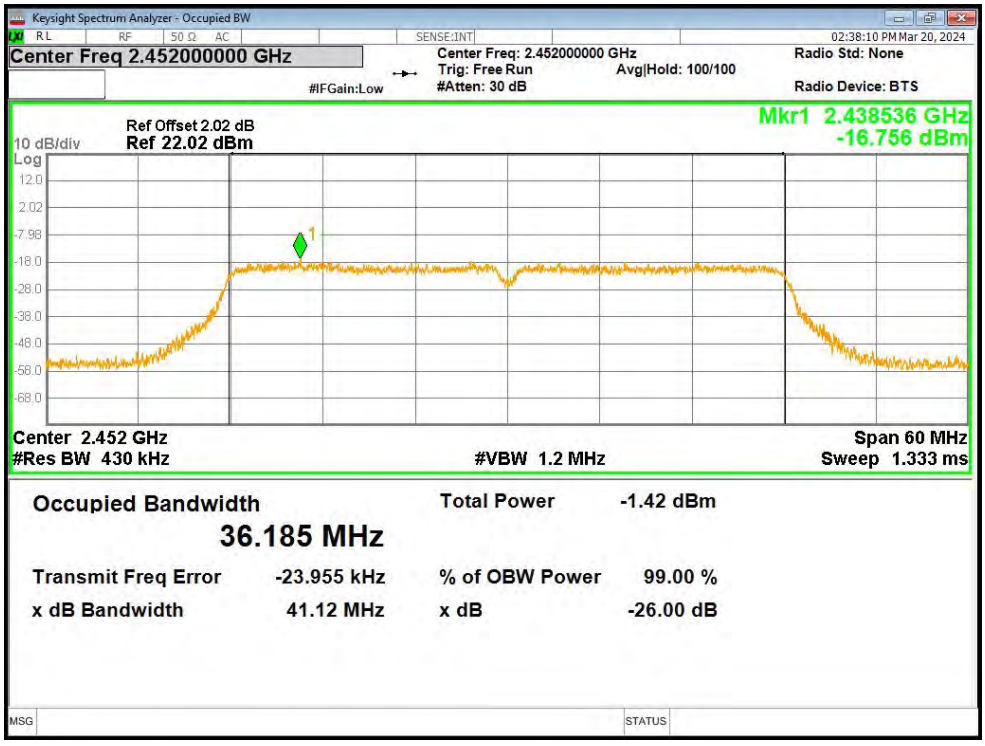
OBW NVNT n40 2422MHz Ant2



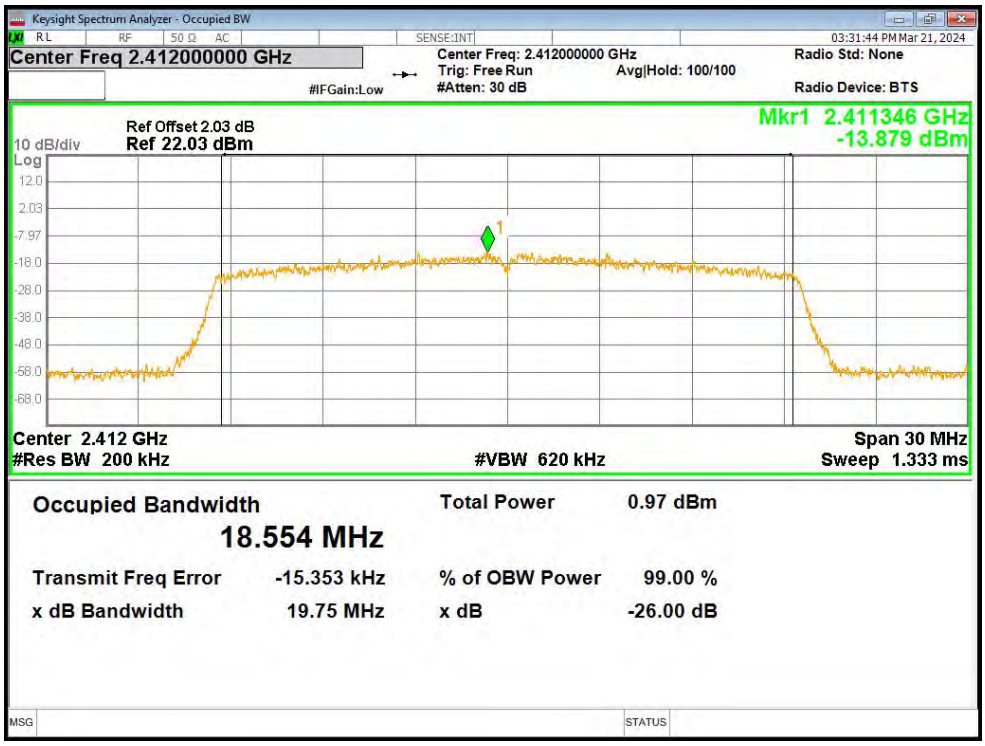
OBW NVNT n40 2437MHz Ant2



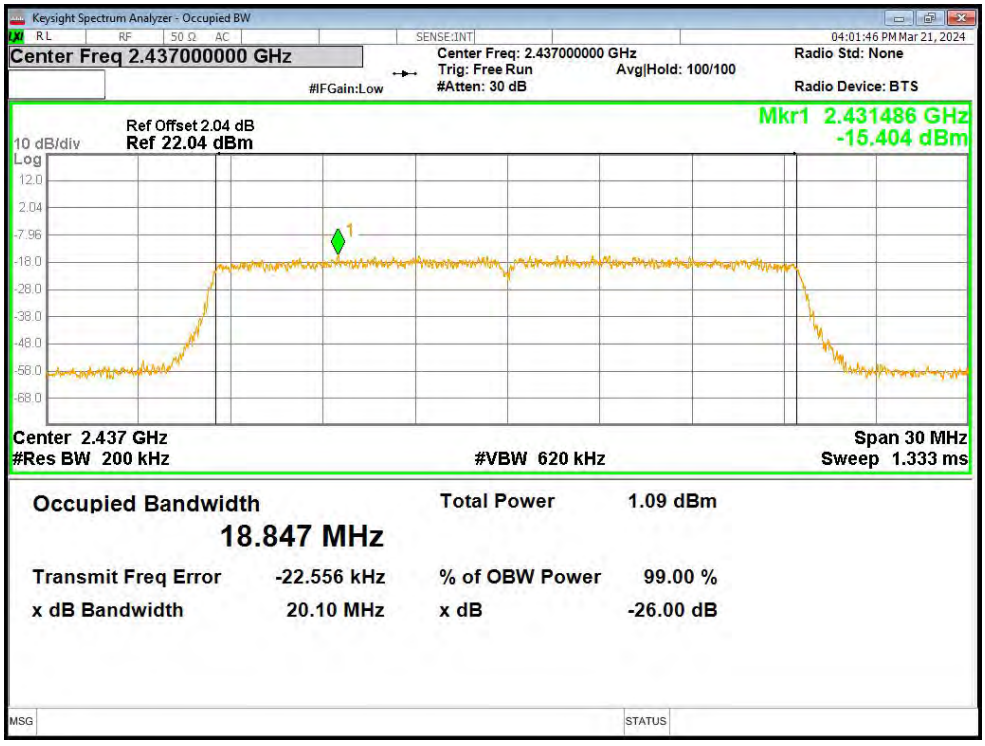
OBW NVNT n40 2452MHz Ant2



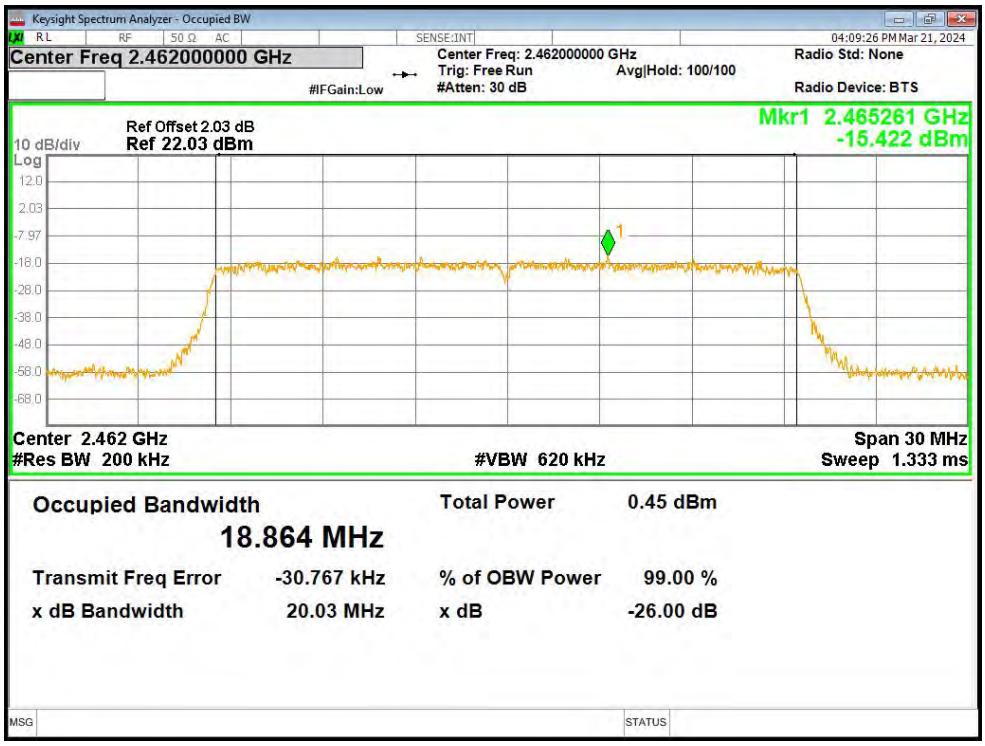
OBW NVNT ax20 2412MHz Ant1



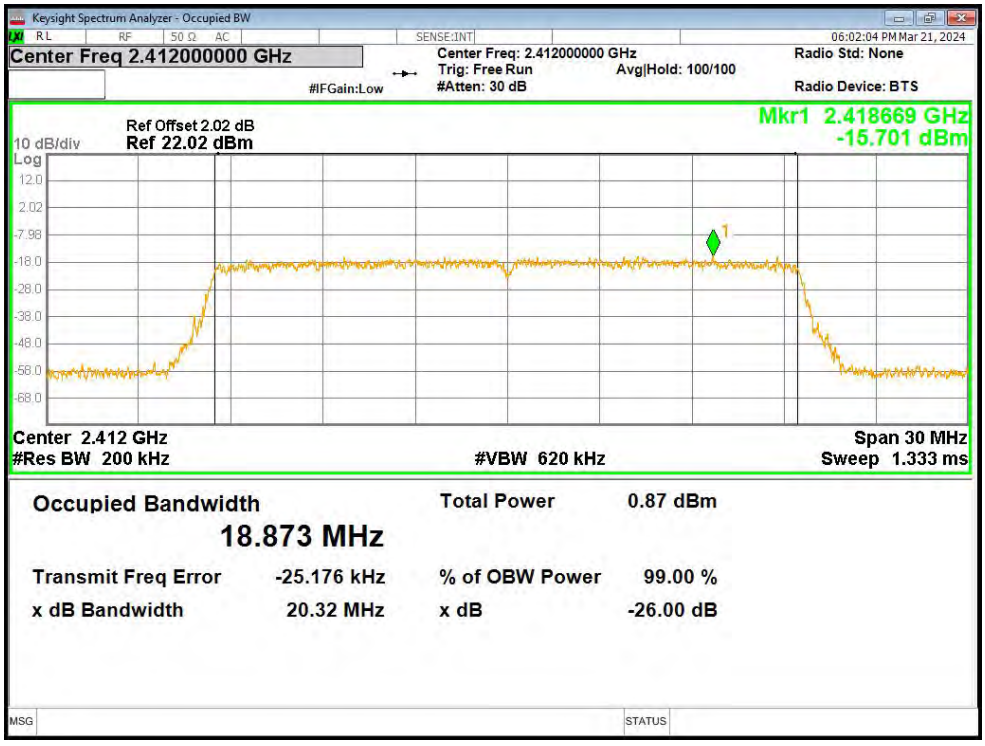
OBW NVNT ax20 2437MHz Ant1



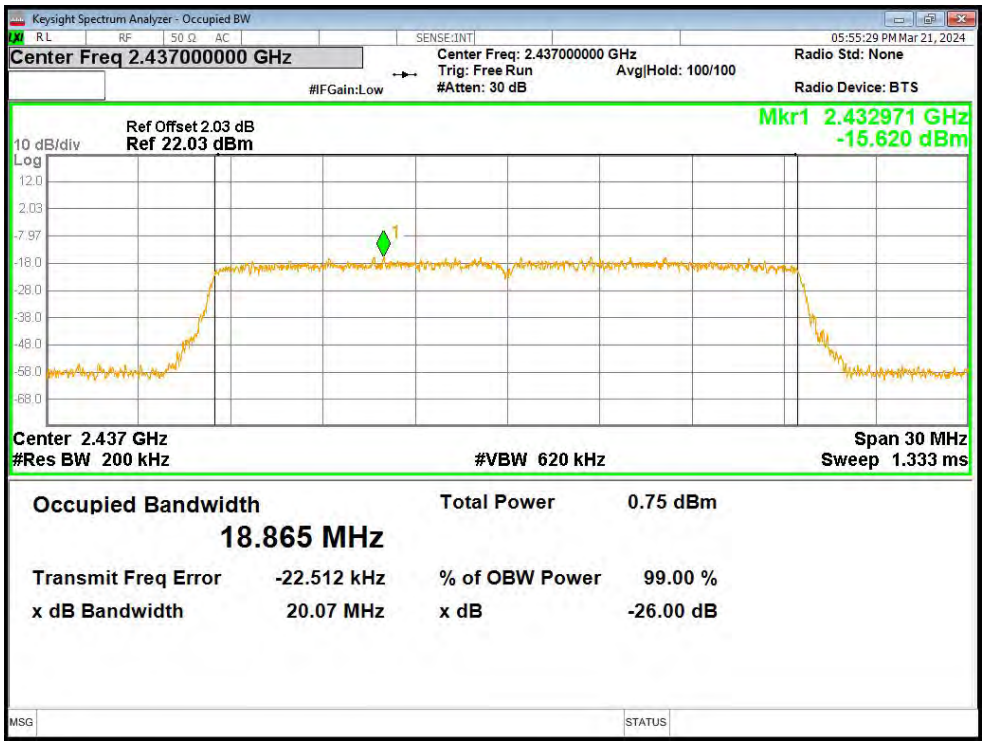
OBW NVNT ax20 2462MHz Ant1



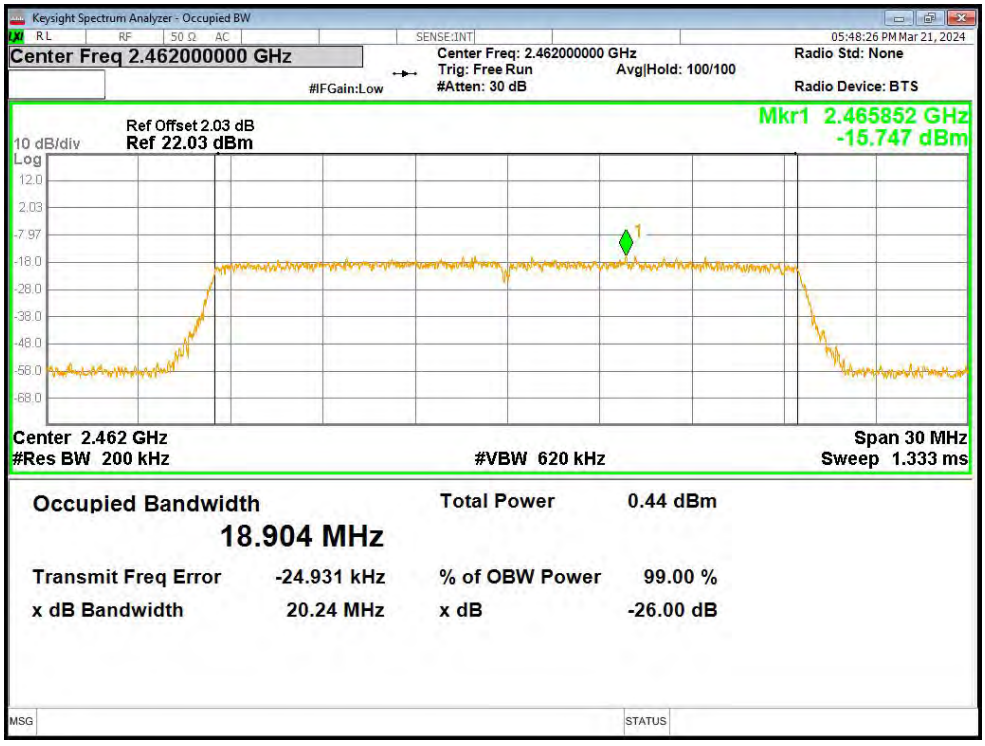
OBW NVNT ax20 2412MHz Ant2



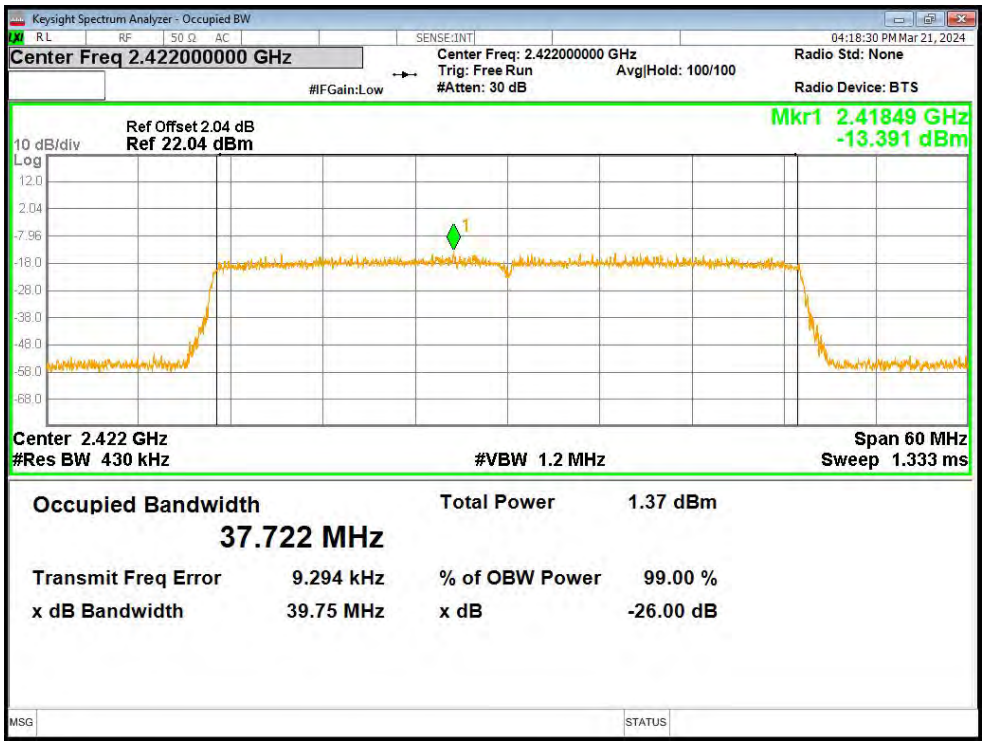
OBW NVNT ax20 2437MHz Ant2



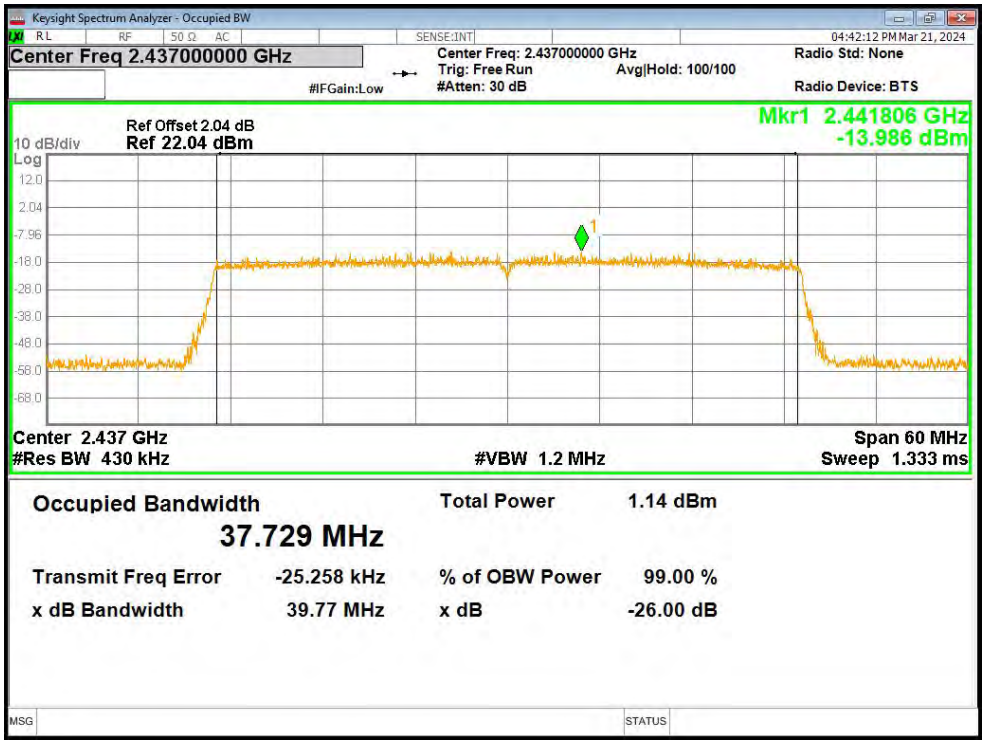
OBW NVNT ax20 2462MHz Ant2



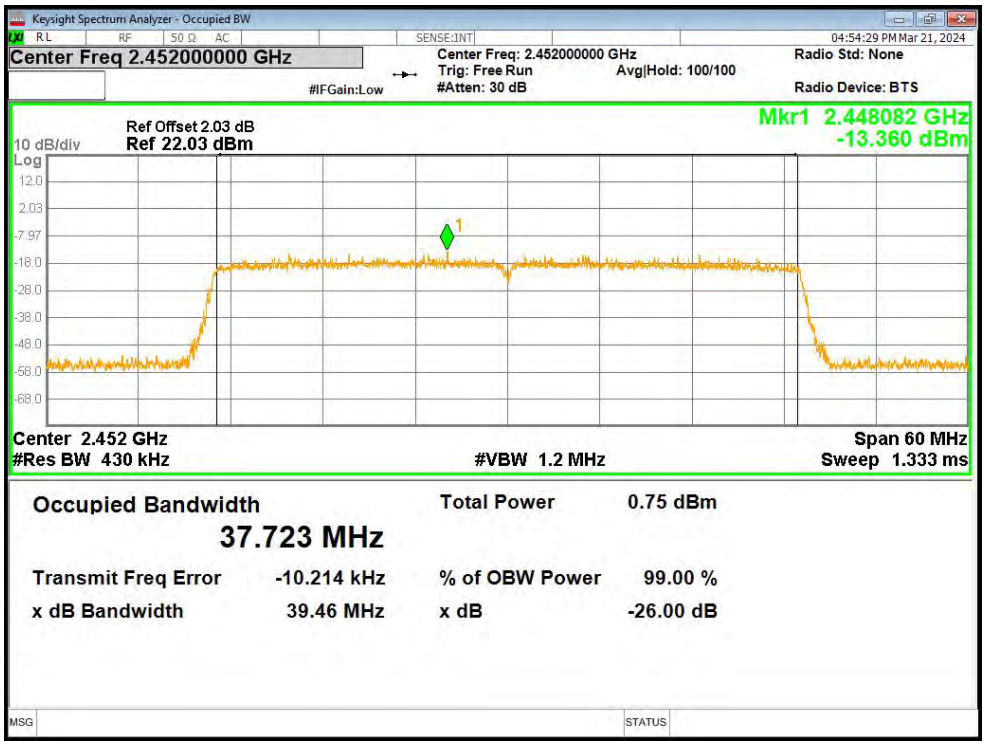
OBW NVNT ax40 2422MHz Ant1



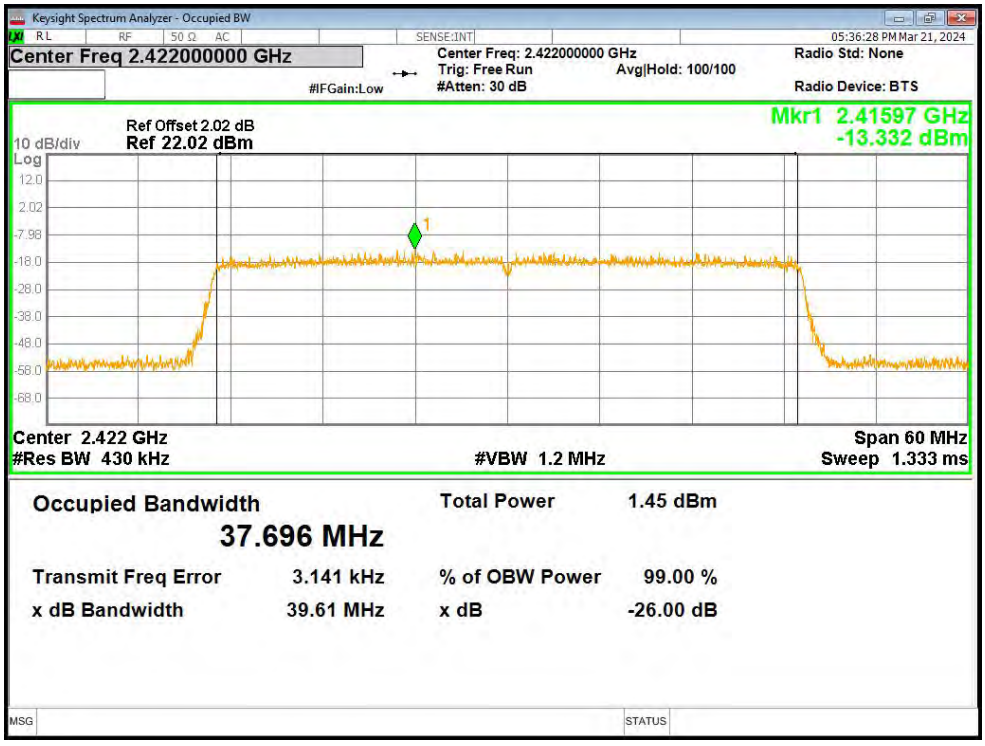
OBW NVNT ax40 2437MHz Ant1



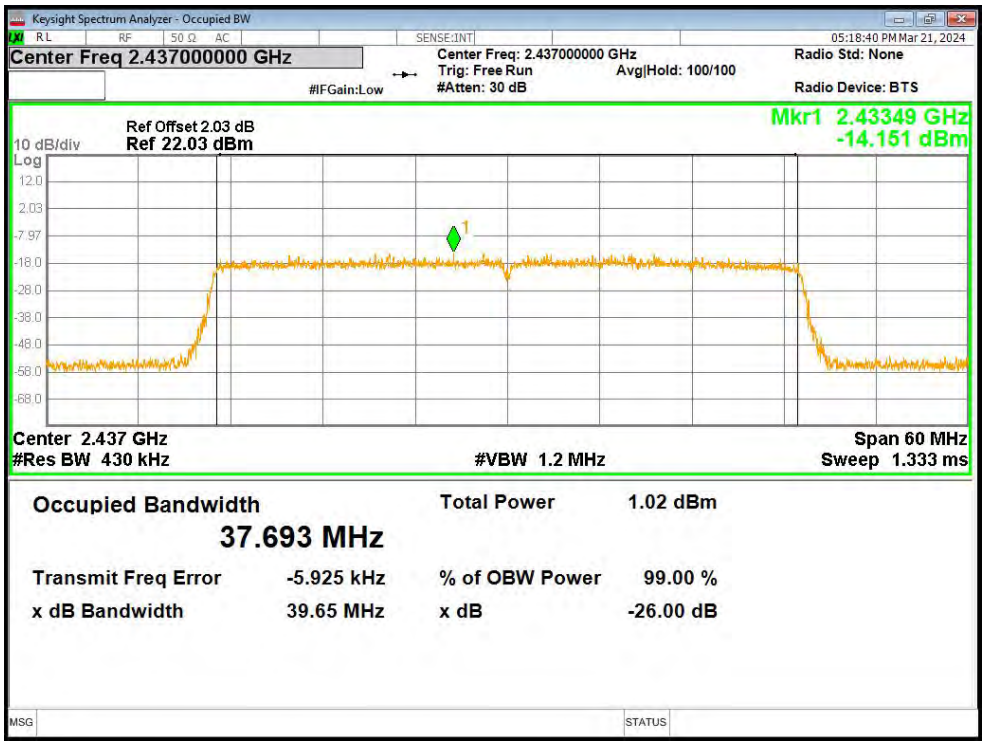
OBW NVNT ax40 2452MHz Ant1



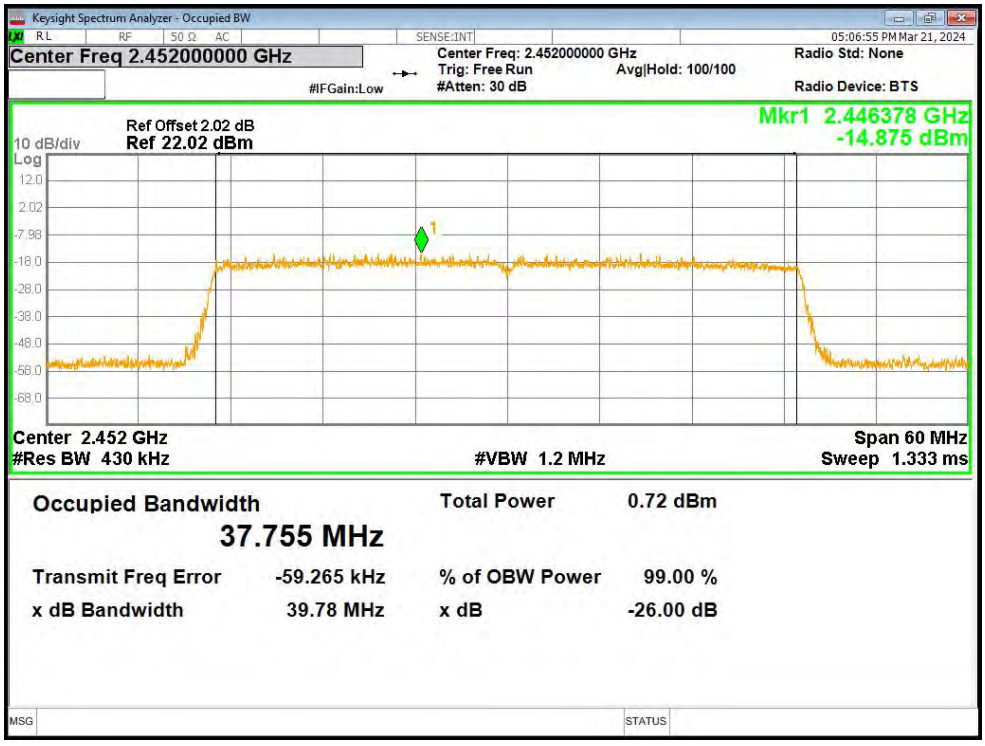
OBW NVNT ax40 2422MHz Ant2



OBW NVNT ax40 2437MHz Ant2



OBW NVNT ax40 2452MHz Ant2



A6. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-23.58	8	Pass
NVNT	b	2437	Ant1	-21.96	8	Pass
NVNT	b	2462	Ant1	-22.91	8	Pass
NVNT	b	2412	Ant2	-21.74	8	Pass
NVNT	b	2437	Ant2	-22.57	8	Pass
NVNT	b	2462	Ant2	-23.13	8	Pass
NVNT	g	2412	Ant1	-29.65	8	Pass
NVNT	g	2437	Ant1	-31.05	8	Pass
NVNT	g	2462	Ant1	-29.72	8	Pass
NVNT	g	2412	Ant2	-31.17	8	Pass
NVNT	g	2437	Ant2	-29.38	8	Pass
NVNT	g	2462	Ant2	-29.75	8	Pass
NVNT	n20	2412	Ant1	-28.22	8	Pass
NVNT	n20	2437	Ant1	-31.47	8	Pass
NVNT	n20	2462	Ant1	-31.76	8	Pass
NVNT	n20	2412	Ant2	-32.65	8	Pass
NVNT	n20	2437	Ant2	-31.66	8	Pass
NVNT	n20	2462	Ant2	-30.19	8	Pass
NVNT	n40	2422	Ant1	-33.1	8	Pass
NVNT	n40	2437	Ant1	-32.93	8	Pass
NVNT	n40	2452	Ant1	-33.39	8	Pass
NVNT	n40	2422	Ant2	-33.53	8	Pass
NVNT	n40	2437	Ant2	-33.23	8	Pass
NVNT	n40	2452	Ant2	-33.6	8	Pass
NVNT	ax20	2412	Ant1	-27.6	8	Pass
NVNT	ax20	2437	Ant1	-28.54	8	Pass
NVNT	ax20	2462	Ant1	-29.07	8	Pass
NVNT	ax20	2412	Ant2	-27.99	8	Pass
NVNT	ax20	2437	Ant2	-27.9	8	Pass
NVNT	ax20	2462	Ant2	-28.78	8	Pass
NVNT	ax40	2422	Ant1	-30.92	8	Pass
NVNT	ax40	2437	Ant1	-31.06	8	Pass
NVNT	ax40	2452	Ant1	-31.16	8	Pass
NVNT	ax40	2422	Ant2	-30.9	8	Pass
NVNT	ax40	2437	Ant2	-31.04	8	Pass
NVNT	ax40	2452	Ant2	-31.42	8	Pass
NVNT	n20	2412	MIMO	-26.88	8	Pass
NVNT	n20	2437	MIMO	-28.55	8	Pass

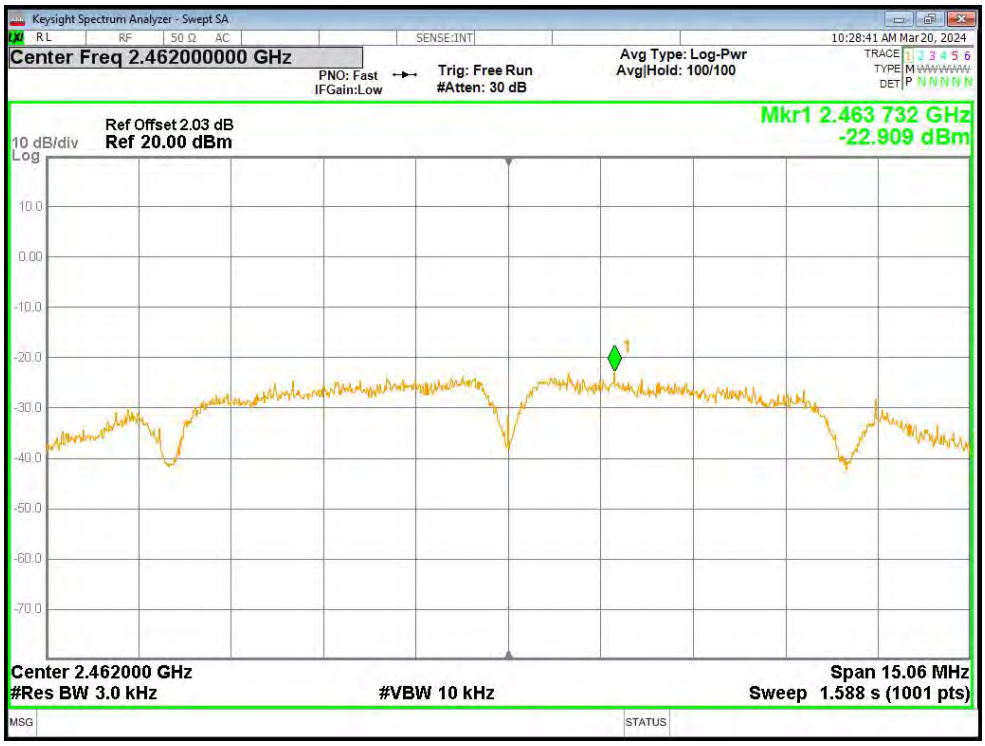
NVNT	n20	2462	MIMO	-27.89	8	Pass
NVNT	n40	2422	MIMO	-30.30	8	Pass
NVNT	n40	2437	MIMO	-30.07	8	Pass
NVNT	n40	2452	MIMO	-30.48	8	Pass
NVNT	ax20	2412	MIMO	-24.78	8	Pass
NVNT	ax20	2437	MIMO	-25.20	8	Pass
NVNT	ax20	2462	MIMO	-25.91	8	Pass
NVNT	ax40	2422	MIMO	-27.90	8	Pass
NVNT	ax40	2437	MIMO	-28.04	8	Pass
NVNT	ax40	2452	MIMO	-28.04	8	Pass

Test Graphs

PSD NVNT b 2412MHz Ant1

PSD NVNT b 2437MHz Ant1

PSD NVNT b 2462MHz Ant1

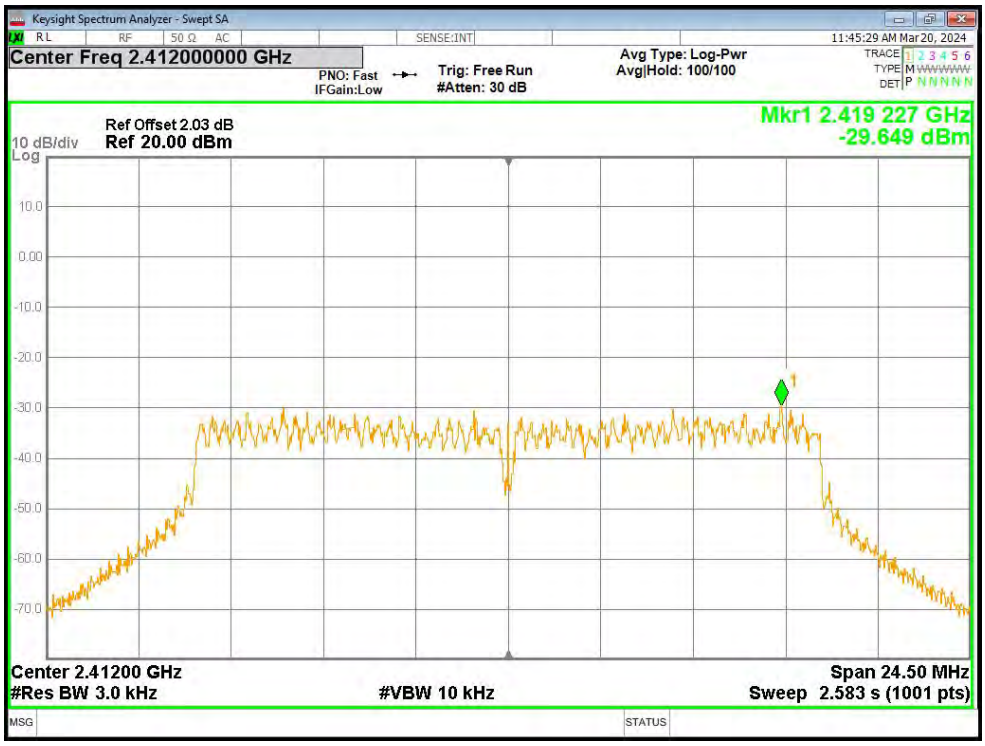


PSD NVNT b 2412MHz Ant2

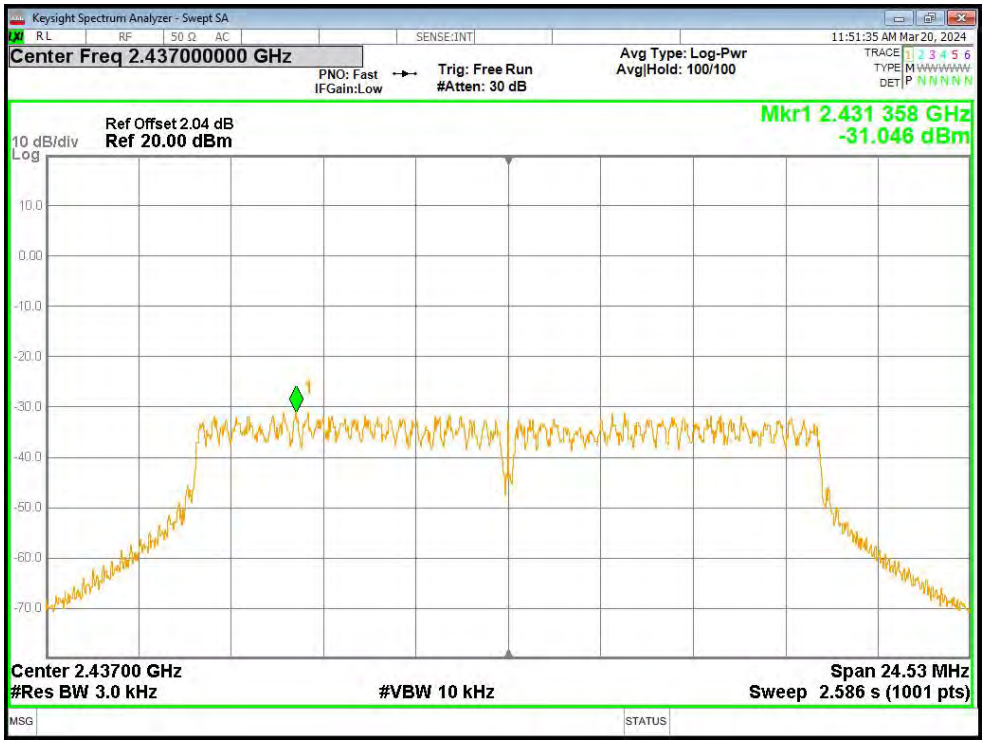
PSD NVNT b 2437MHz Ant2

PSD NVNT b 2462MHz Ant2

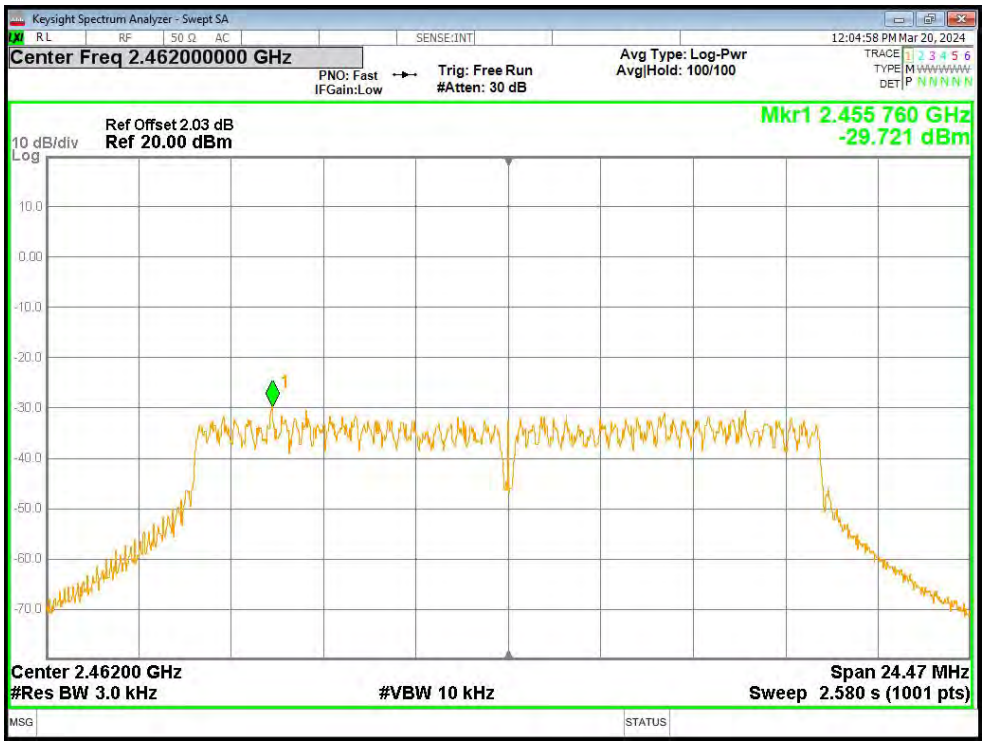
PSD NVNT g 2412MHz Ant1



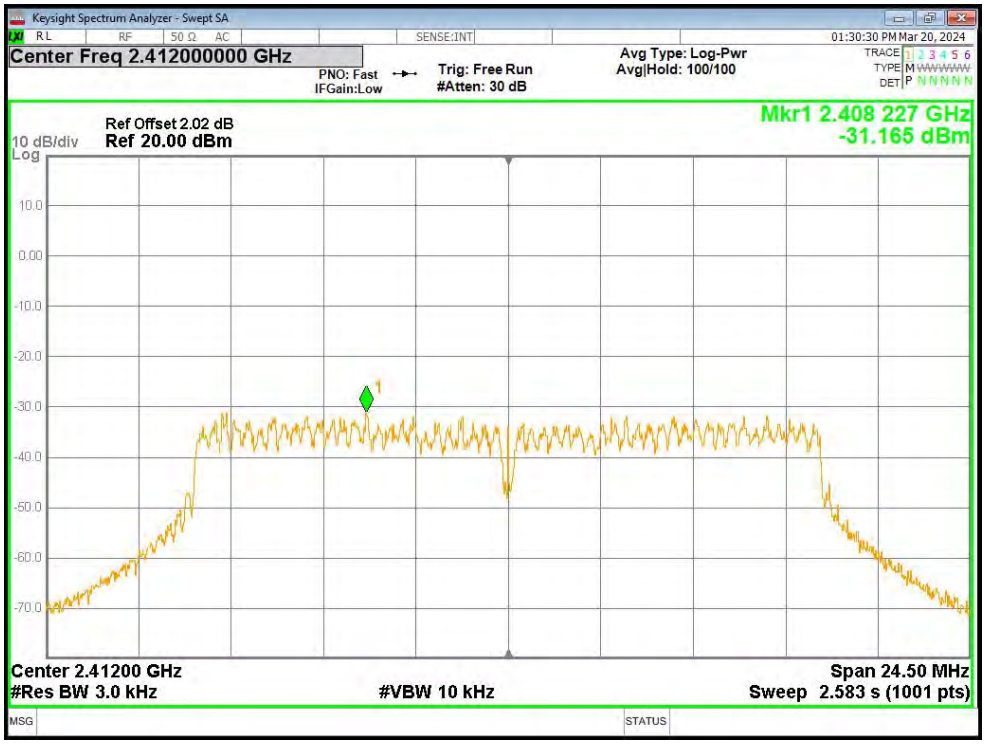
PSD NVNT g 2437MHz Ant1



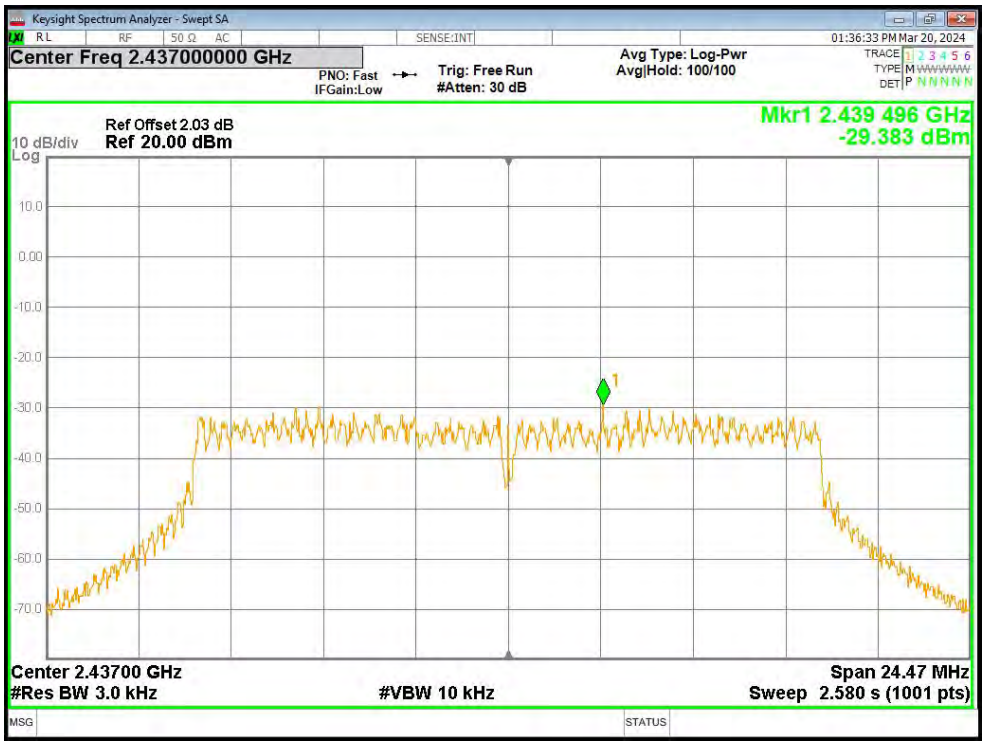
PSD NVNT g 2462MHz Ant1



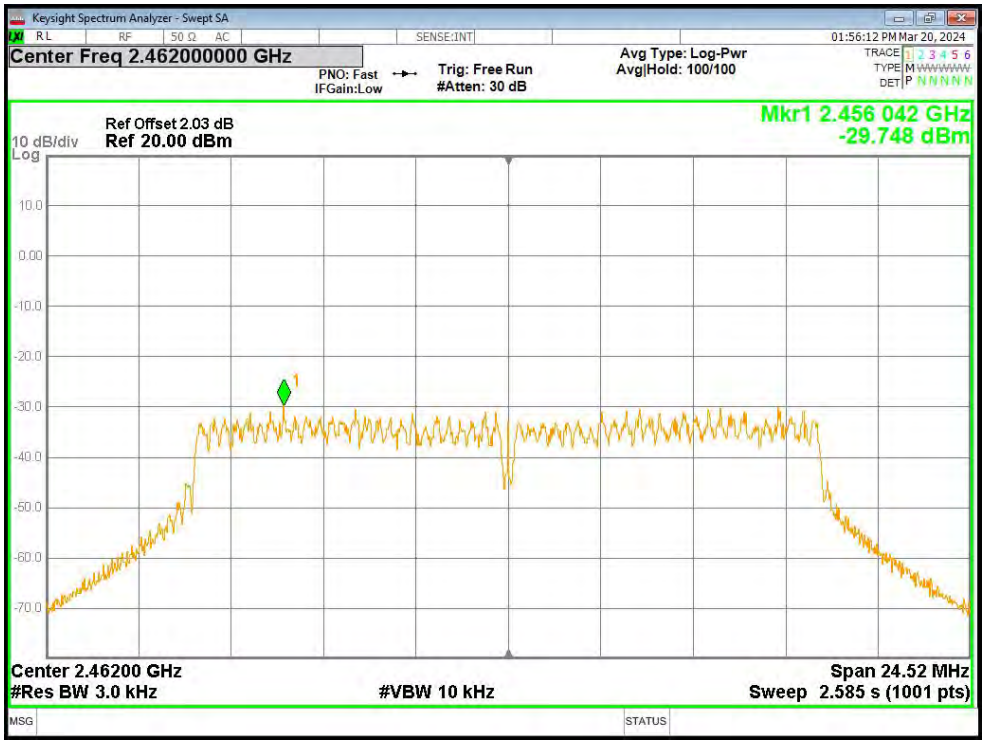
PSD NVNT g 2412MHz Ant2



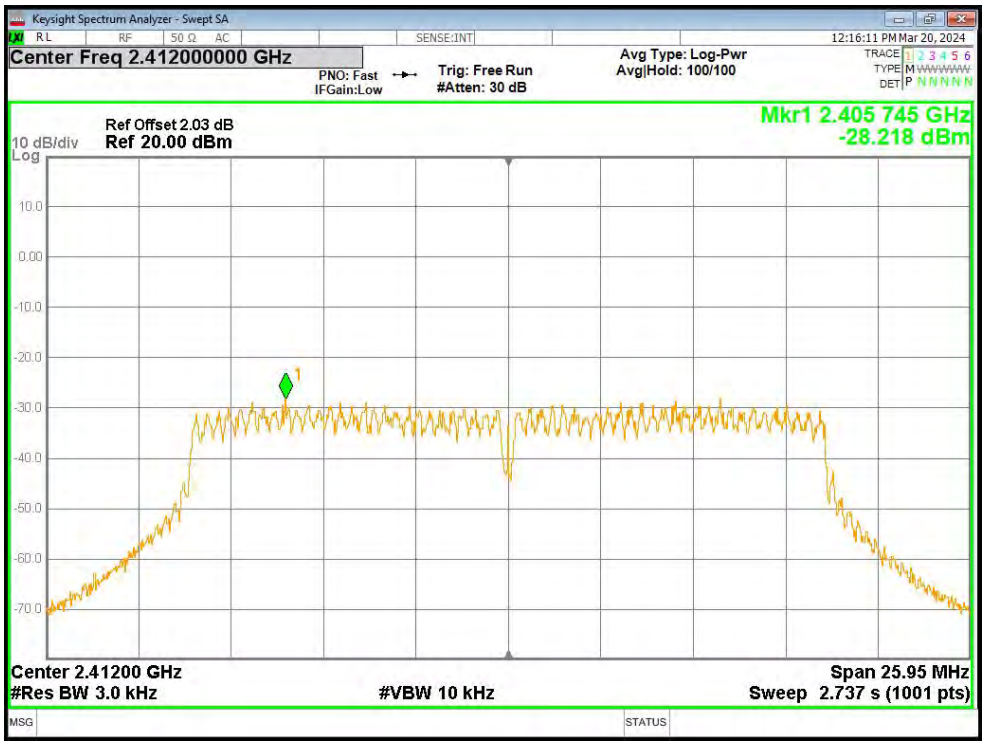
PSD NVNT g 2437MHz Ant2



PSD NVNT g 2462MHz Ant2



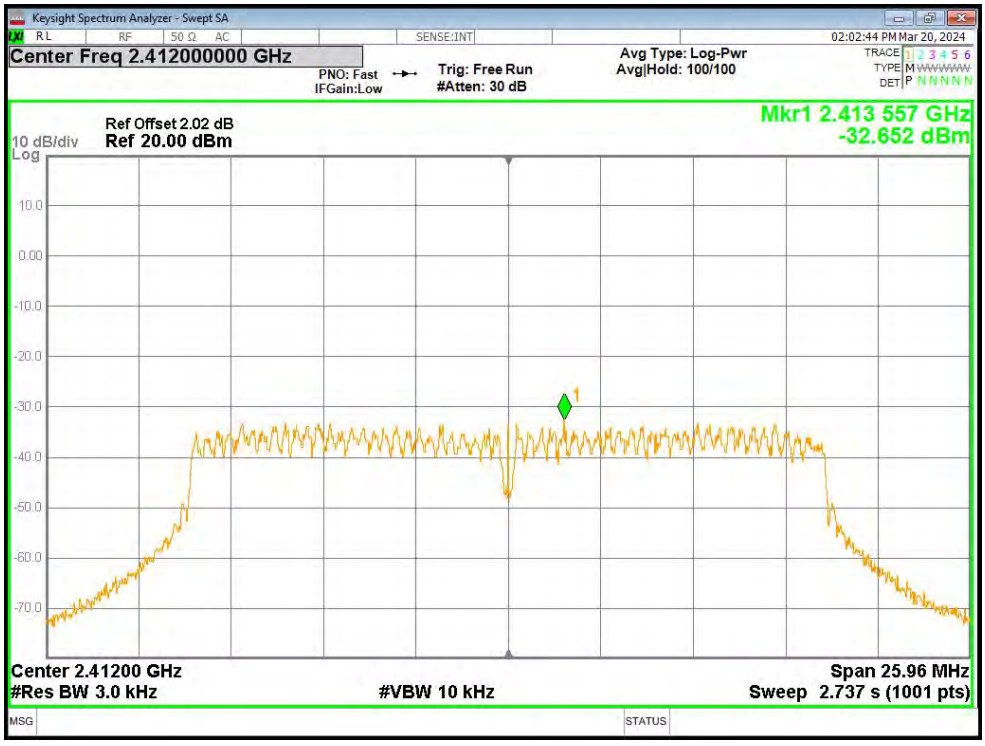
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1

PSD NVNT n20 2462MHz Ant1

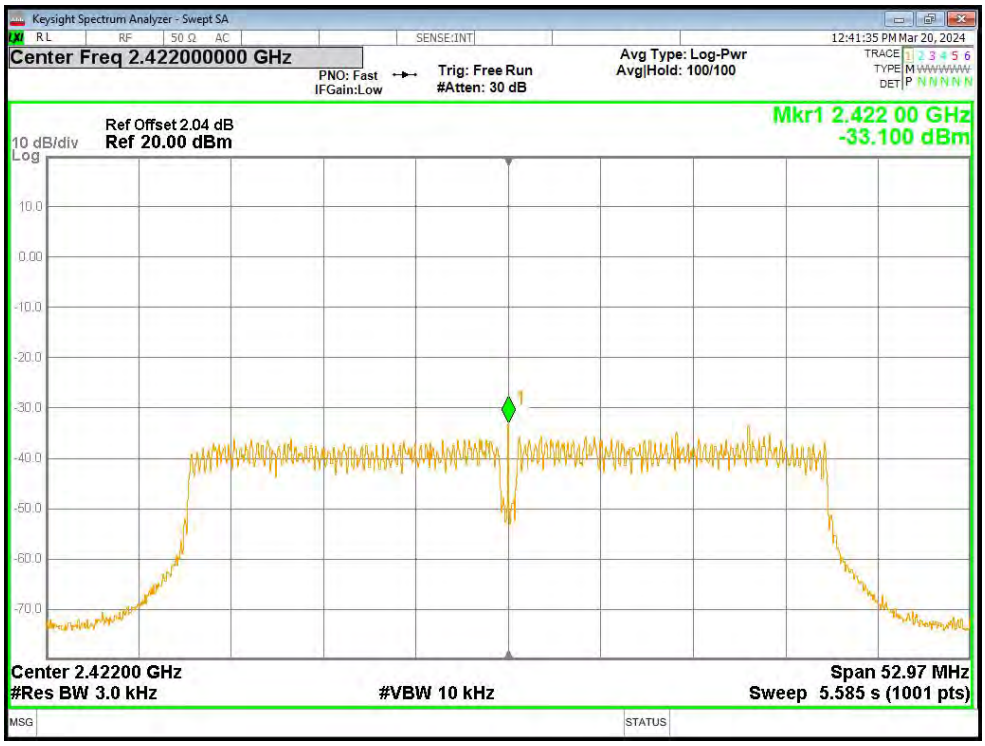
PSD NVNT n20 2412MHz Ant2



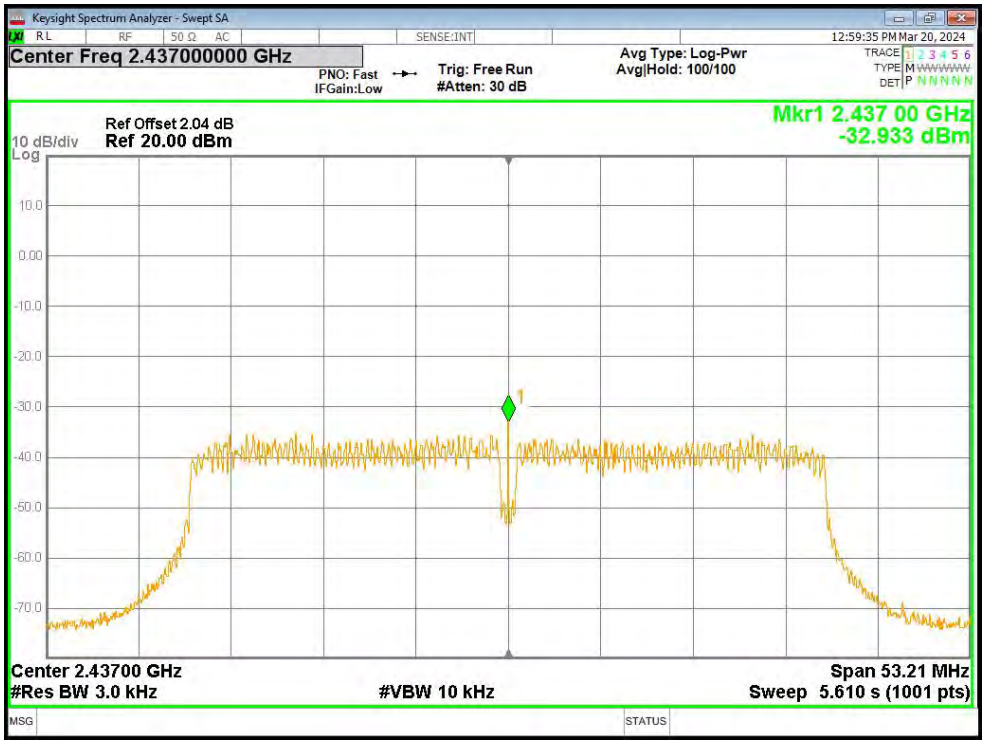
PSD NVNT n20 2437MHz Ant2

PSD NVNT n20 2462MHz Ant2

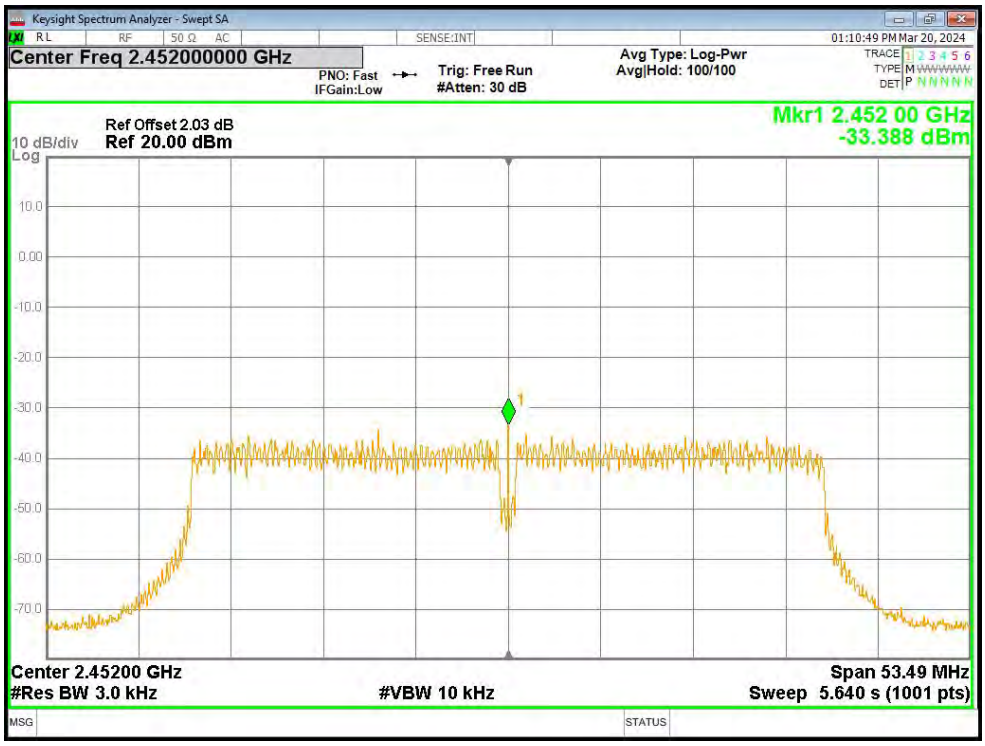
PSD NVNT n40 2422MHz Ant1



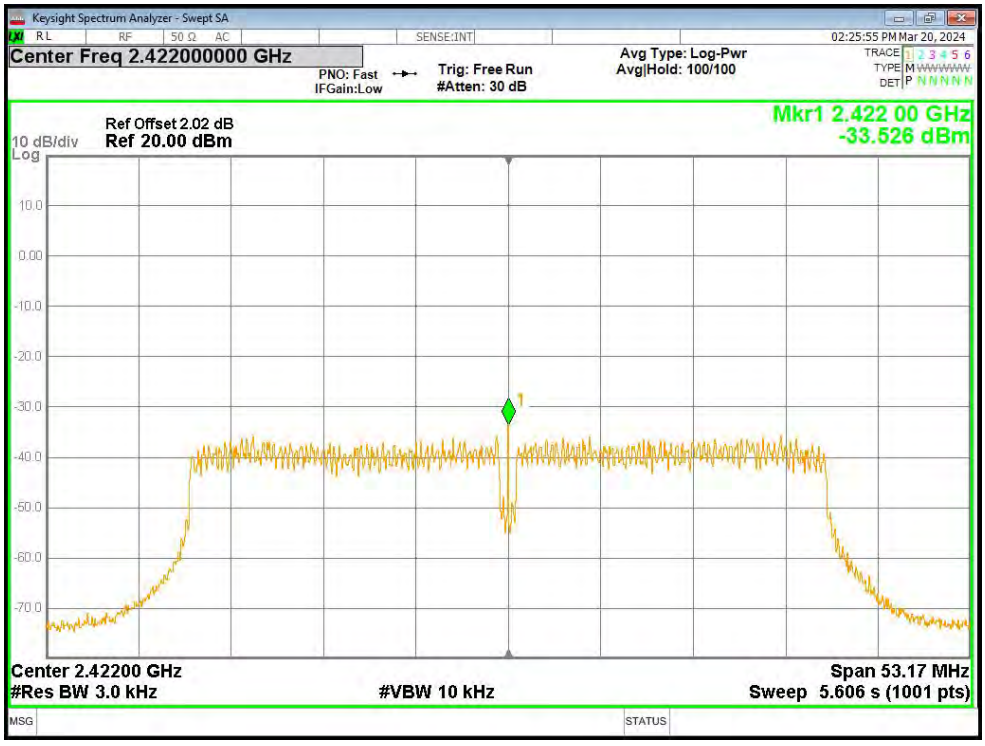
PSD NVNT n40 2437MHz Ant1



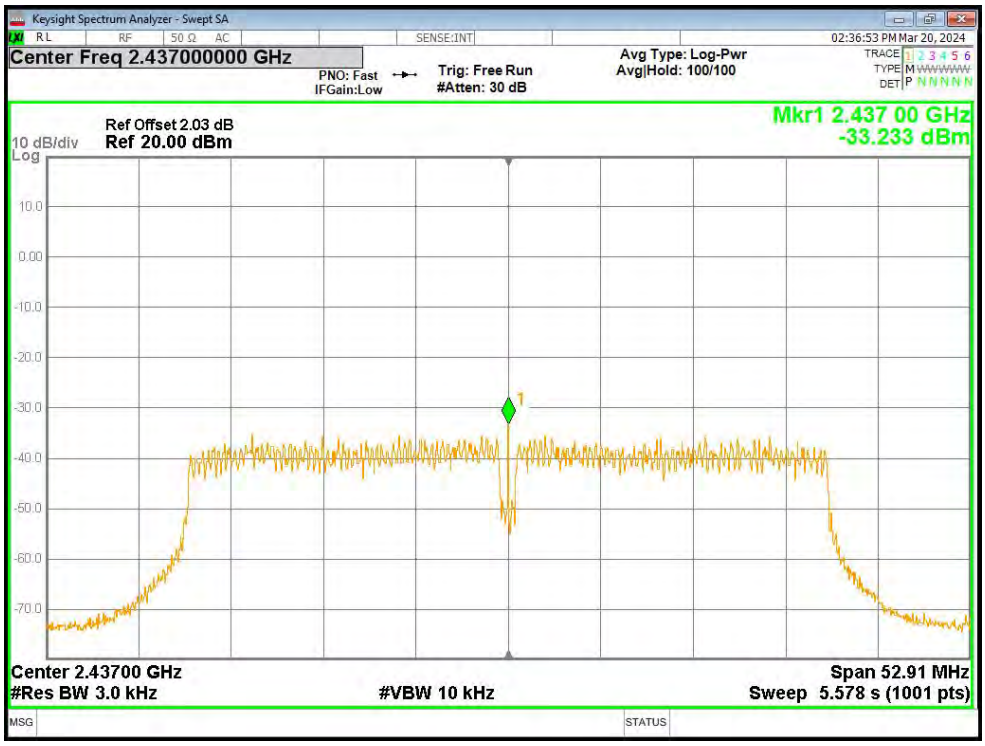
PSD NVNT n40 2452MHz Ant1



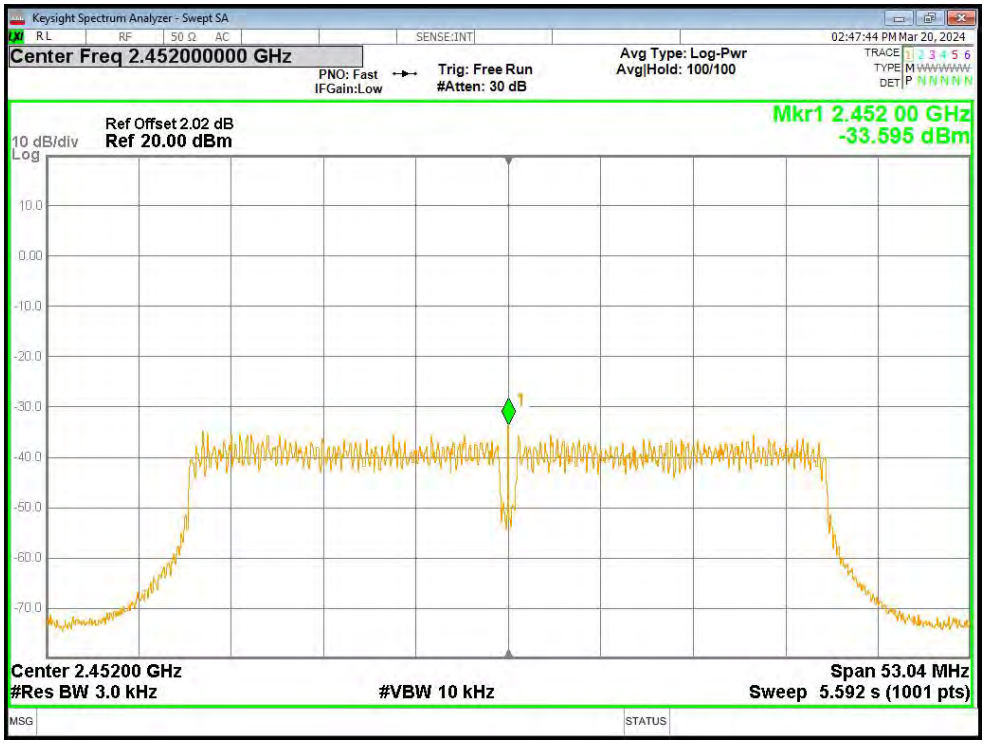
PSD NVNT n40 2422MHz Ant2



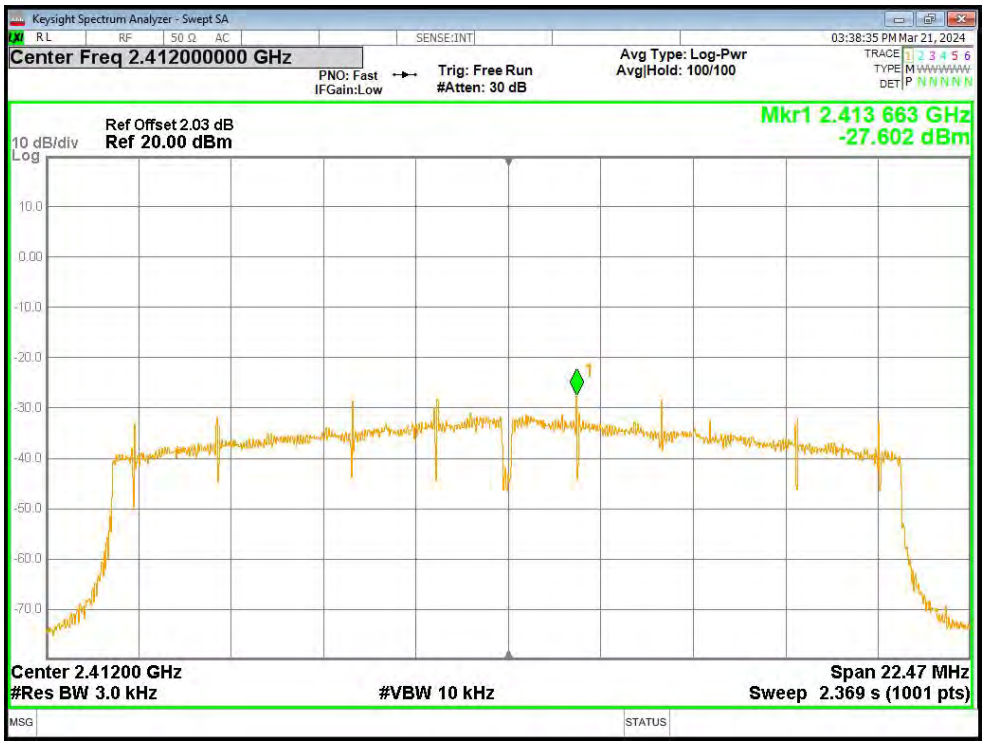
PSD NVNT n40 2437MHz Ant2



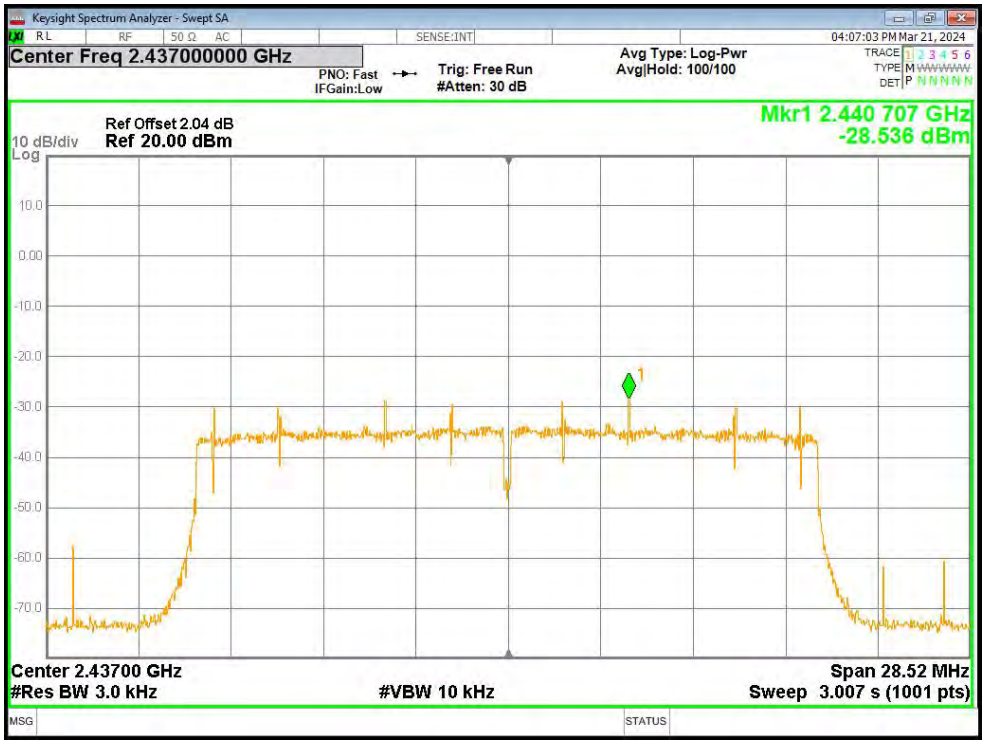
PSD NVNT n40 2452MHz Ant2



PSD NVNT ax20 2412MHz Ant1



PSD NVNT ax20 2437MHz Ant1



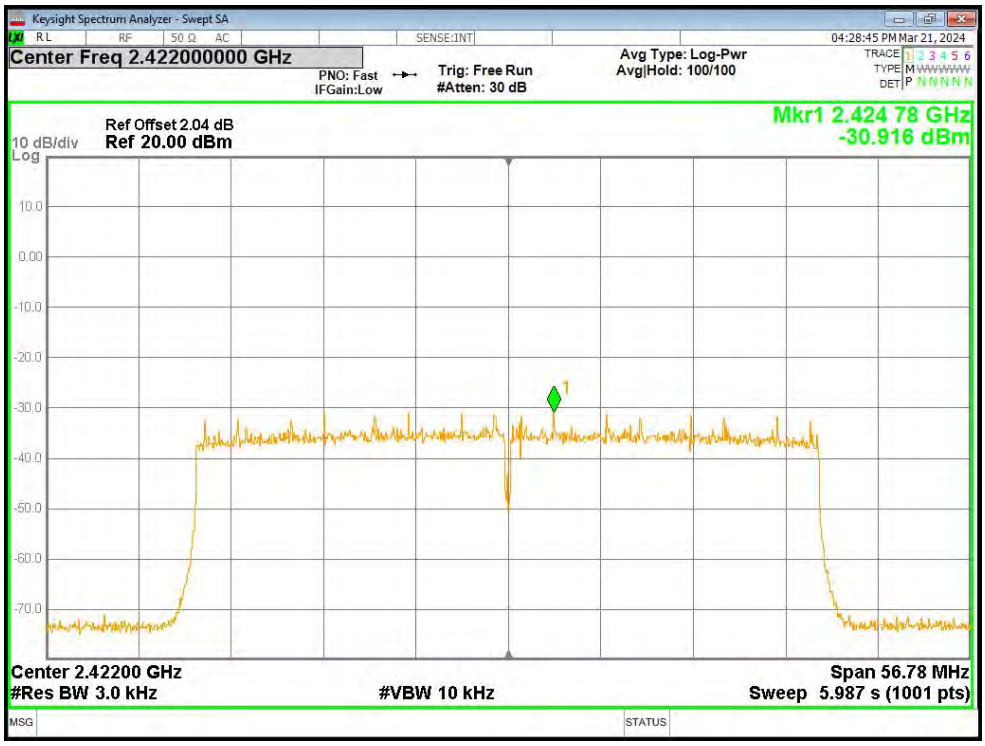
PSD NVNT ax20 2462MHz Ant1

PSD NVNT ax20 2412MHz Ant2

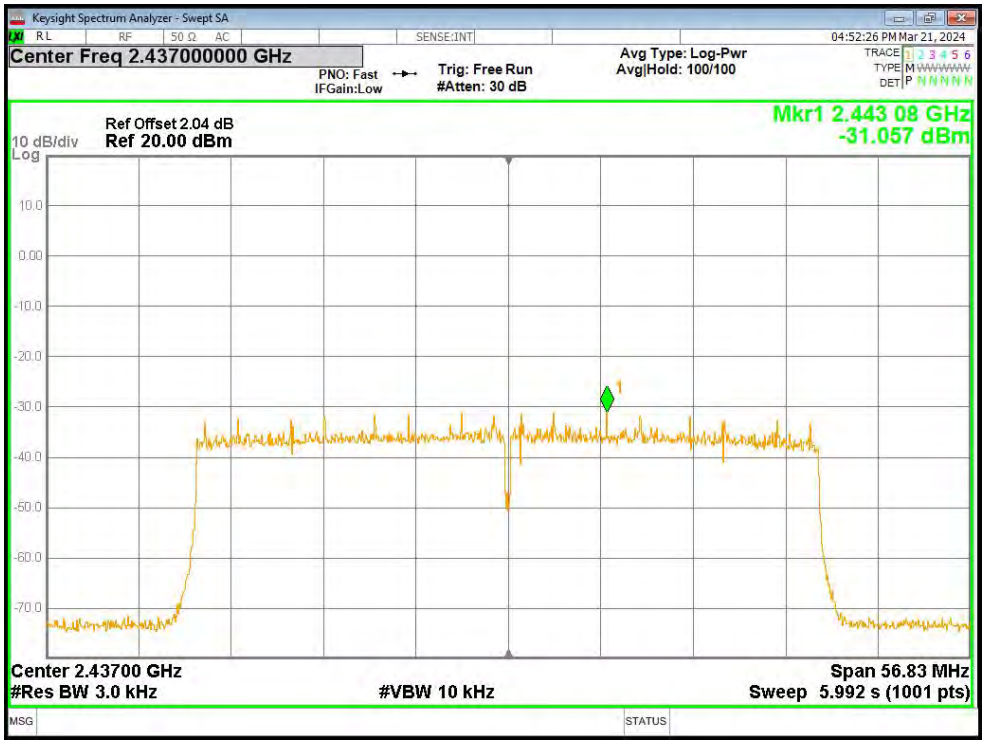
PSD NVNT ax20 2437MHz Ant2

PSD NVNT ax20 2462MHz Ant2

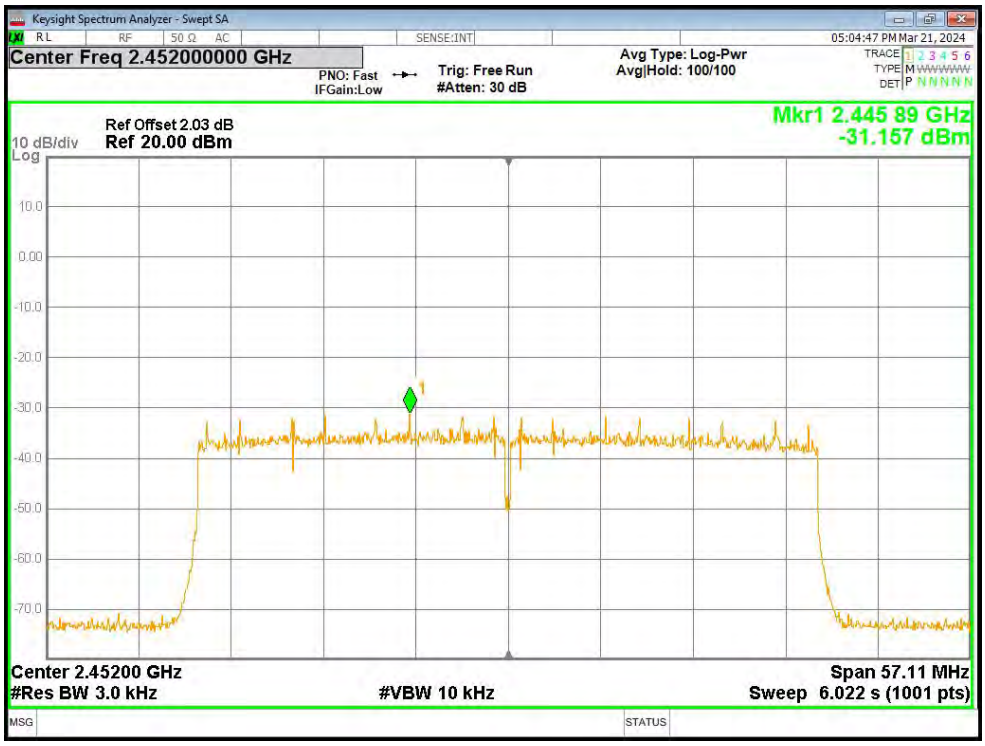
PSD NVNT ax40 2422MHz Ant1



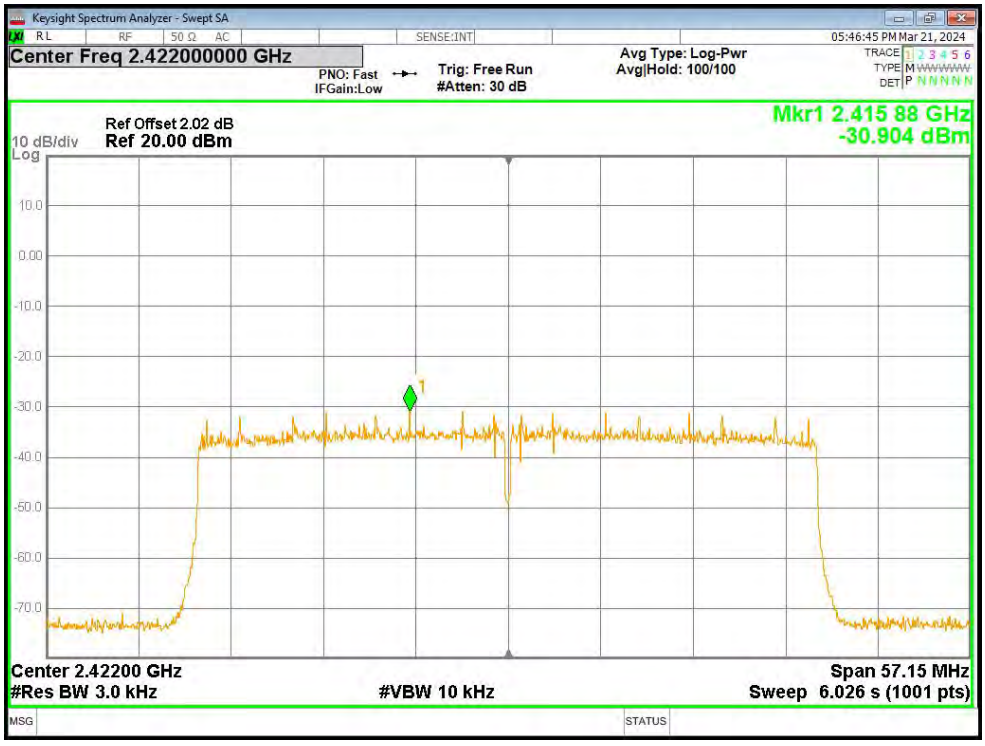
PSD NVNT ax40 2437MHz Ant1



PSD NVNT ax40 2452MHz Ant1

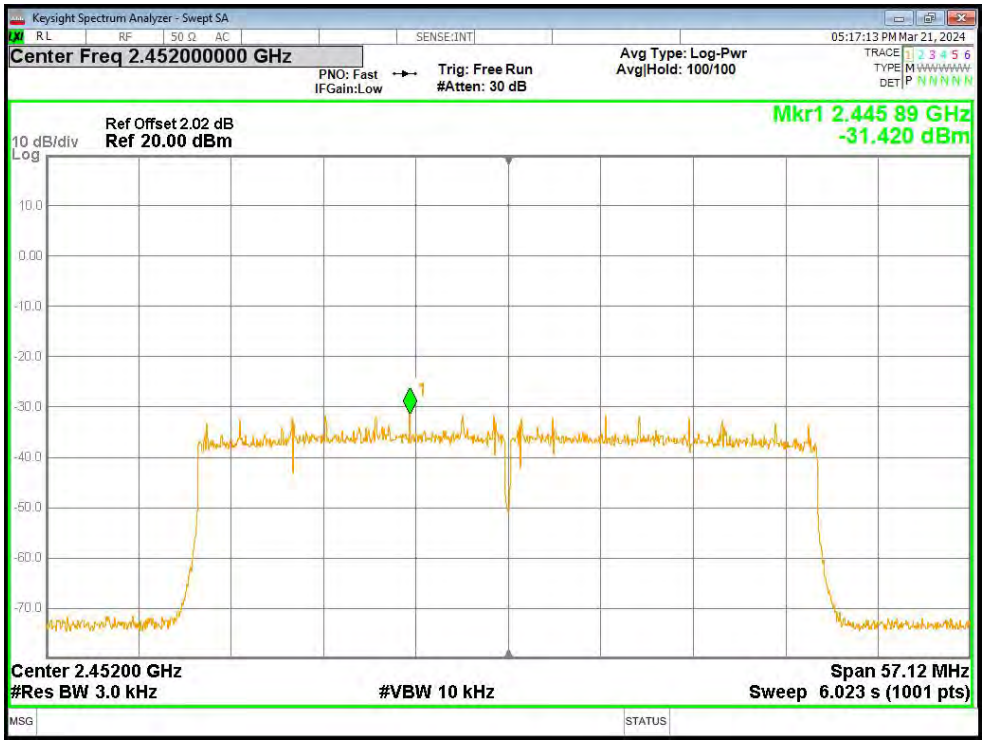


PSD NVNT ax40 2422MHz Ant2



PSD NVNT ax40 2437MHz Ant2

PSD NVNT ax40 2452MHz Ant2

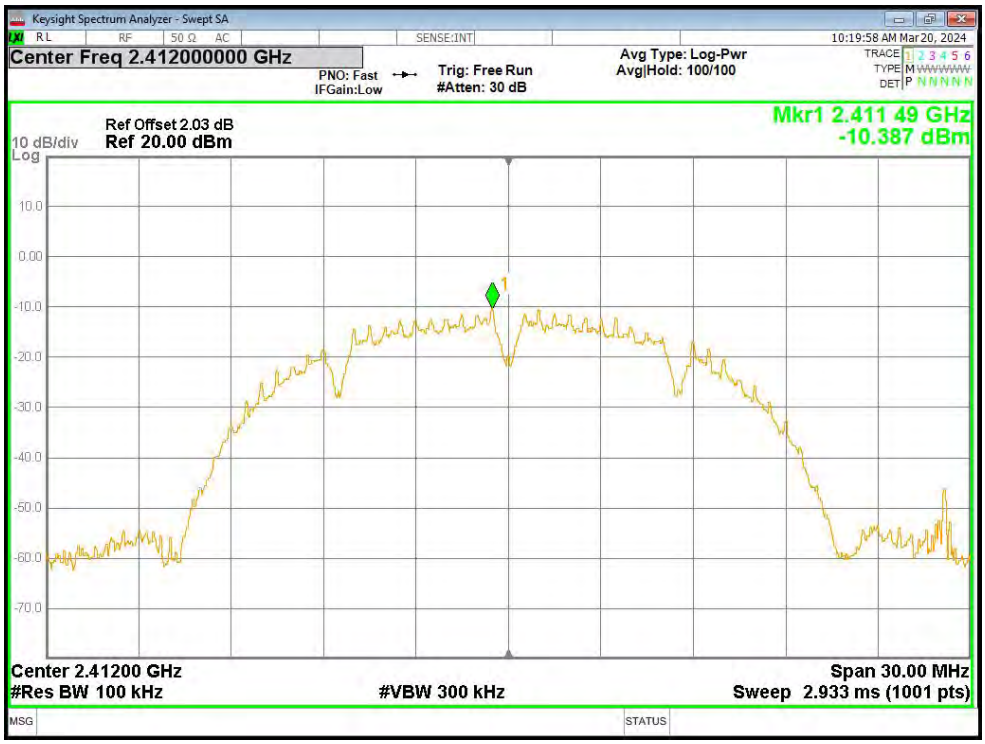


A7. Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-43.11	-20	Pass
NVNT	b	2462	Ant1	-46.63	-20	Pass
NVNT	b	2412	Ant2	-43.74	-20	Pass
NVNT	b	2462	Ant2	-47.31	-20	Pass
NVNT	g	2412	Ant1	-37.38	-20	Pass
NVNT	g	2462	Ant1	-40.25	-20	Pass
NVNT	g	2412	Ant2	-37.16	-20	Pass
NVNT	g	2462	Ant2	-39.75	-20	Pass
NVNT	n20	2412	Ant1	-37.78	-20	Pass
NVNT	n20	2462	Ant1	-39.02	-20	Pass
NVNT	n20	2412	Ant2	-34.25	-20	Pass
NVNT	n20	2462	Ant2	-38.51	-20	Pass
NVNT	n40	2422	Ant1	-34.44	-20	Pass
NVNT	n40	2452	Ant1	-36.74	-20	Pass
NVNT	n40	2422	Ant2	-34.95	-20	Pass
NVNT	n40	2452	Ant2	-36.55	-20	Pass
NVNT	ax20	2412	Ant1	-39.85	-20	Pass
NVNT	ax20	2462	Ant1	-37.51	-20	Pass
NVNT	ax20	2412	Ant2	-38.74	-20	Pass
NVNT	ax20	2462	Ant2	-38.25	-20	Pass
NVNT	ax40	2422	Ant1	-37.56	-20	Pass
NVNT	ax40	2452	Ant1	-36.88	-20	Pass
NVNT	ax40	2422	Ant2	-36.23	-20	Pass
NVNT	ax40	2452	Ant2	-35.19	-20	Pass

Test Graphs

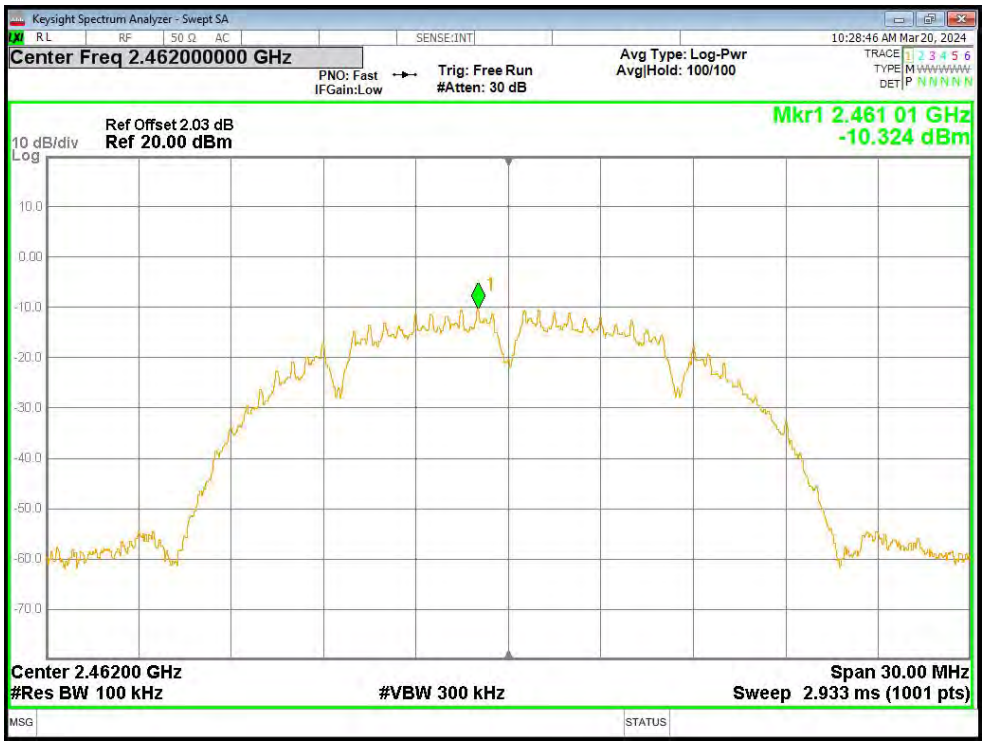
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.413 0 GHz	-10.434 dBm			
2	N	1	f	2.400 0 GHz	-53.507 dBm			
3	N	1	f	2.400 0 GHz	-53.507 dBm			
4	N	1	f	2.400 0 GHz	-53.507 dBm			
5								
6								
7								
8								
9								
10								
11								

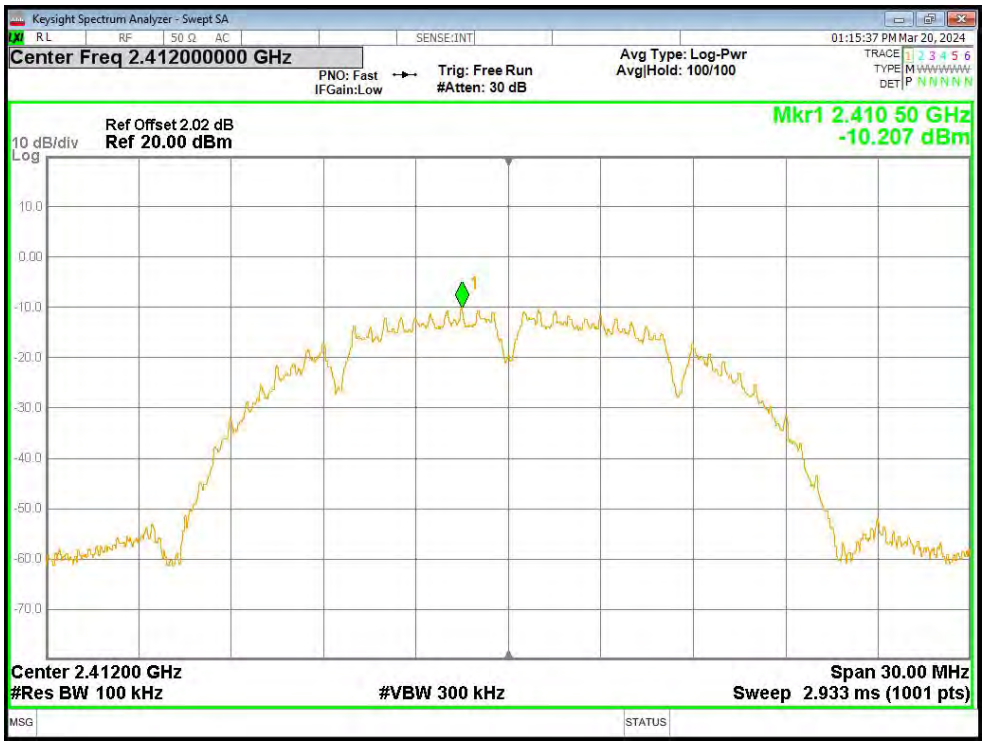
Band Edge NVNT b 2462MHz Ant1 Ref



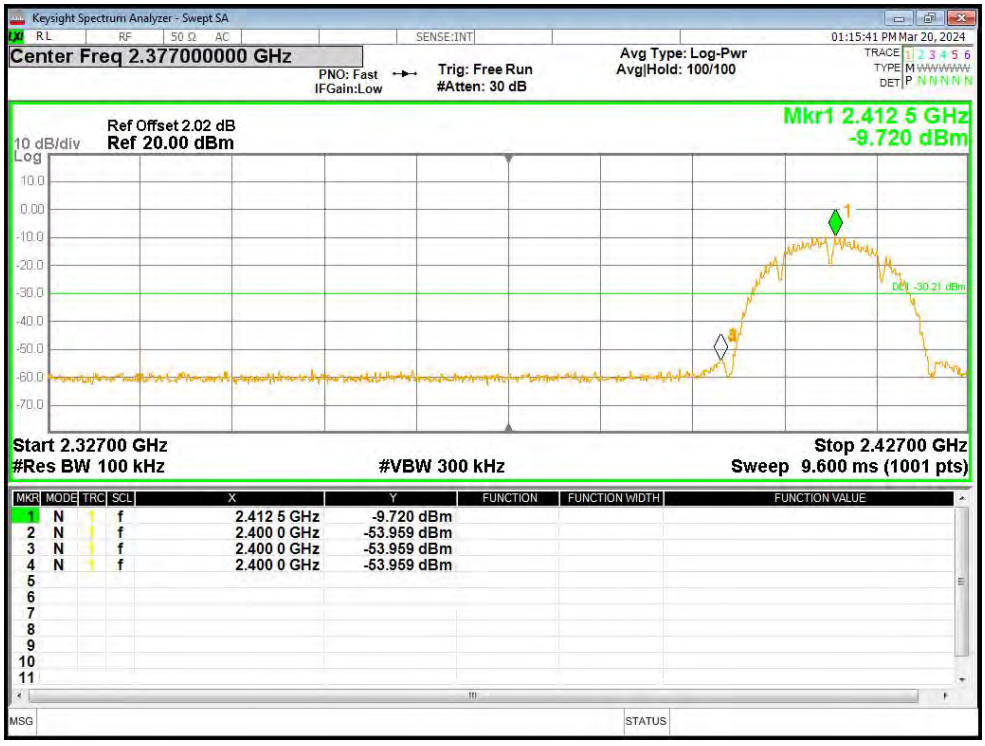
Band Edge NVNT b 2462MHz Ant1 Emission

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.462 5 GHz	-10.035 dBm			
2	N	1	f	2.483 5 GHz	-59.127 dBm			
3	N	1	f	2.500 0 GHz	-58.778 dBm			
4	N	1	f	2.496 2 GHz	-56.951 dBm			
5								
6								
7								
8								
9								
10								
11								

Band Edge NVNT b 2412MHz Ant2 Ref

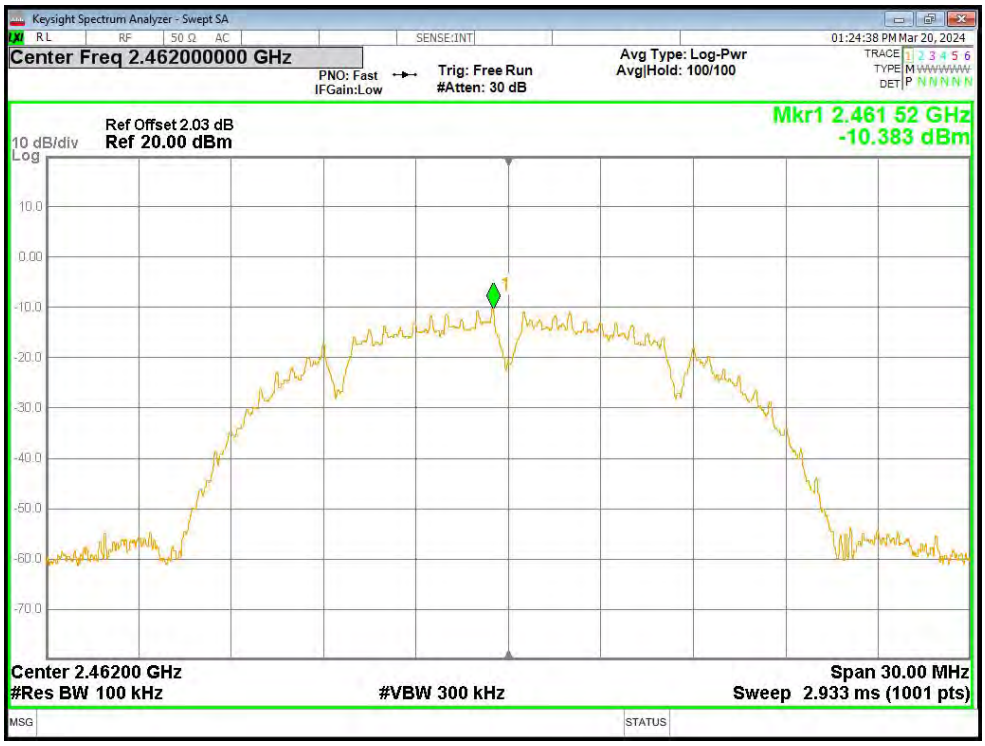


Band Edge NVNT b 2412MHz Ant2 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.412 5 GHz	-9.720 dBm			
2	N	1	f	2.400 0 GHz	-53.959 dBm			
3	N	1	f	2.400 0 GHz	-53.959 dBm			
4	N	1	f	2.400 0 GHz	-53.959 dBm			
5								
6								
7								
8								
9								
10								
11								

Band Edge NVNT b 2462MHz Ant2 Ref



Band Edge NVNT b 2462MHz Ant2 Emission

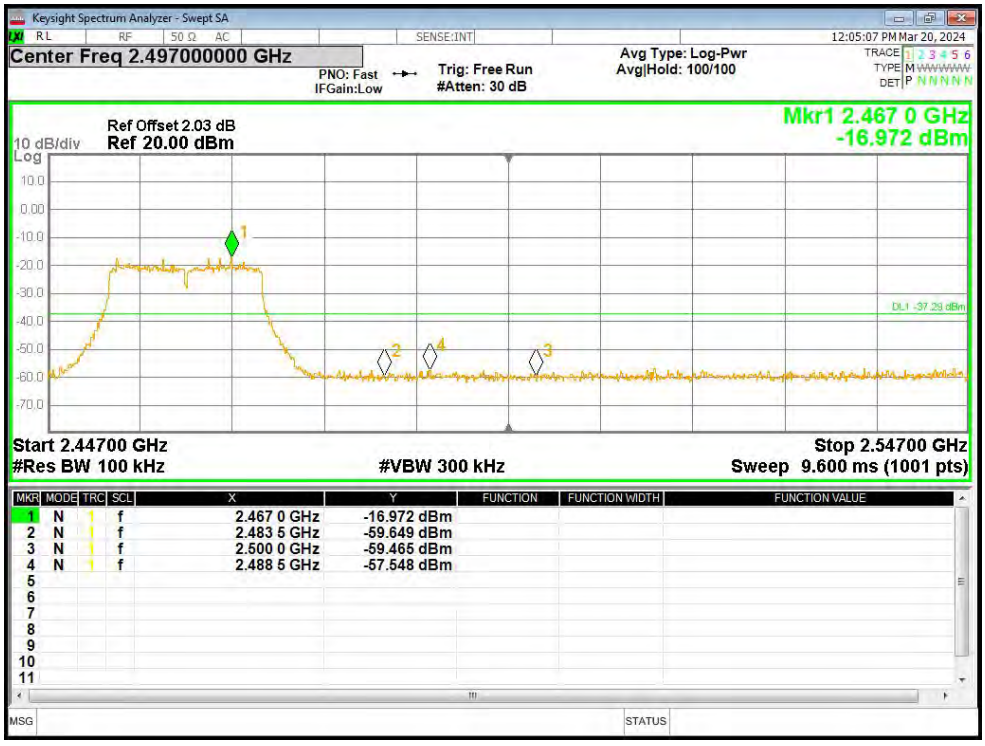
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.461 5 GHz	-10.628 dBm			
2	N	1	f	2.483 5 GHz	-60.596 dBm			
3	N	1	f	2.500 0 GHz	-59.455 dBm			
4	N	1	f	2.490 3 GHz	-57.699 dBm			
5								
6								
7								
8								
9								
10								
11								

Band Edge NVNT g 2412MHz Ant1 Ref

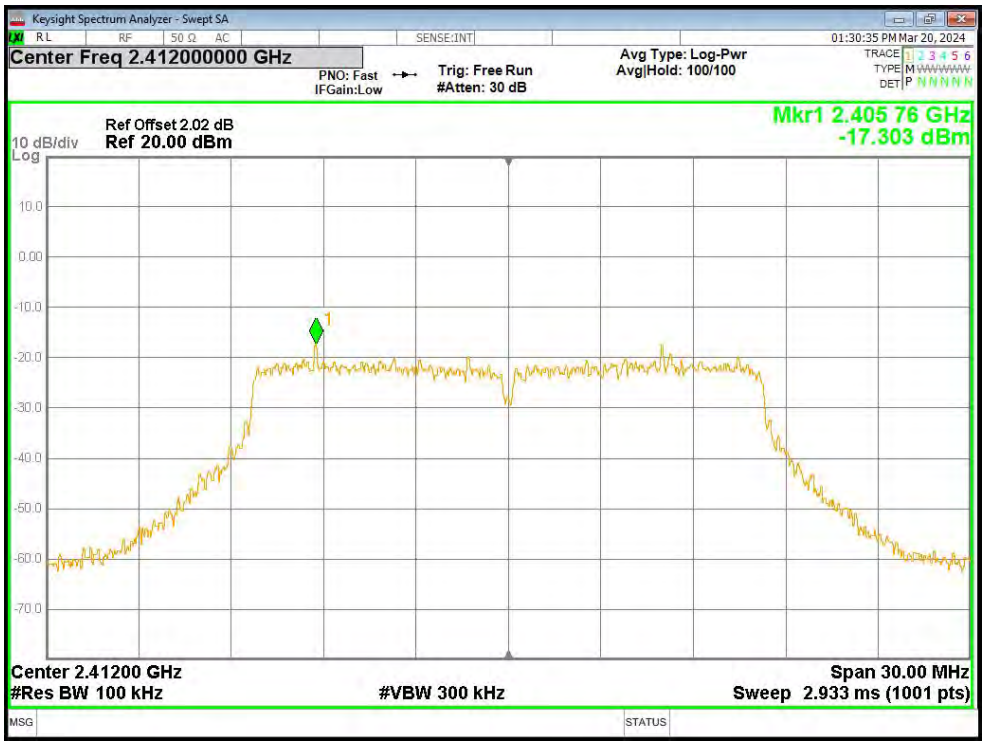
Band Edge NVNT g 2412MHz Ant1 Emission

Band Edge NVNT g 2462MHz Ant1 Ref

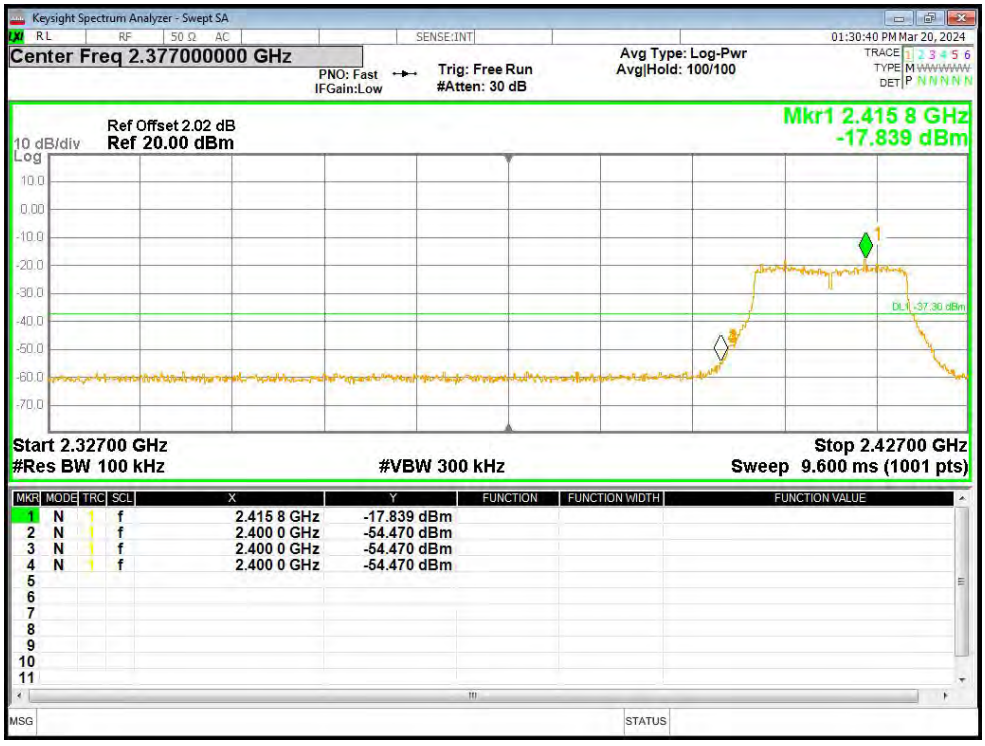
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant2 Ref



Band Edge NVNT g 2412MHz Ant2 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.415 8 GHz	-17.839 dBm			
2	N	1	f	2.400 0 GHz	-54.470 dBm			
3	N	1	f	2.400 0 GHz	-54.470 dBm			
4	N	1	f	2.400 0 GHz	-54.470 dBm			
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6								
7								
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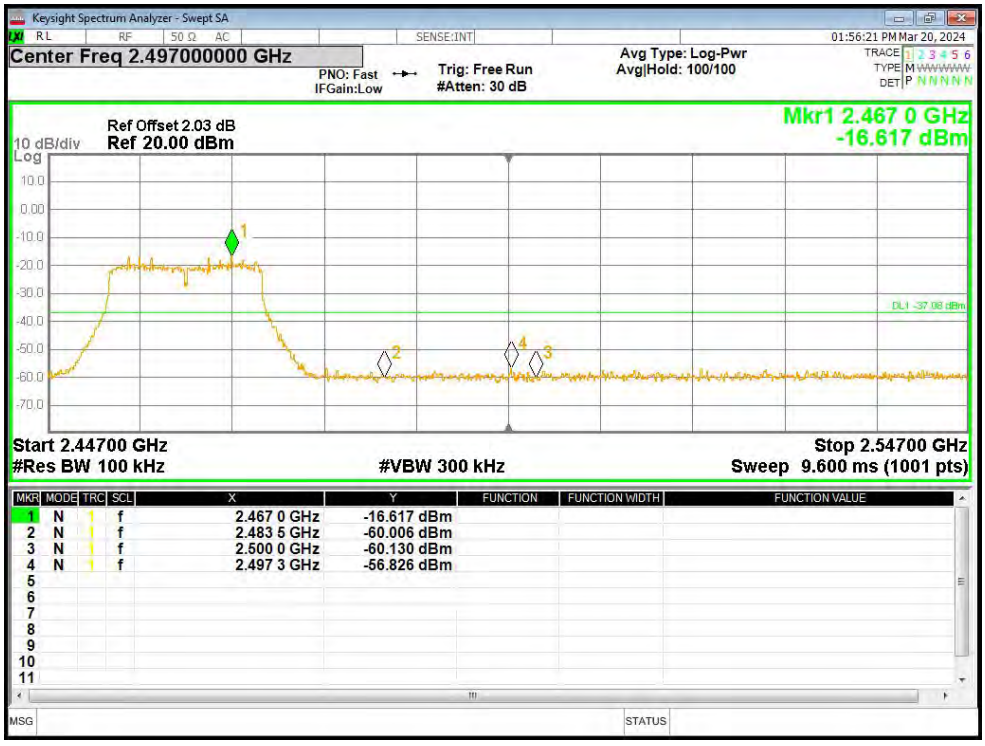
9								
10								
11								

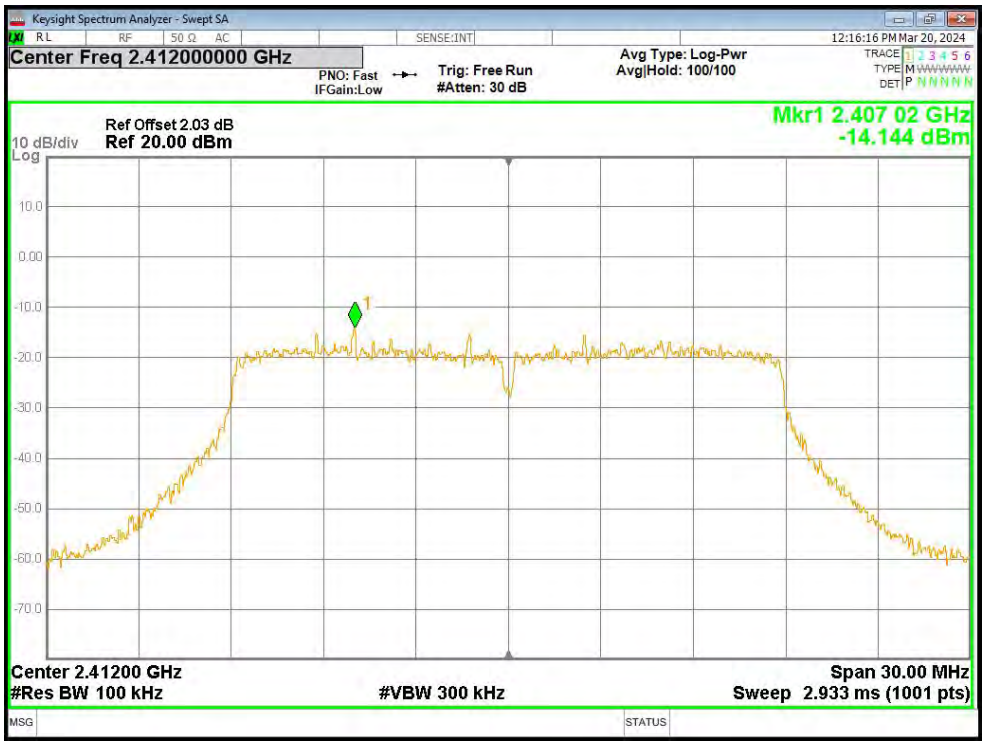
Band Edge NVNT g 2462MHz Ant2 Ref

Band Edge NVNT g 2462MHz Ant2 Emission

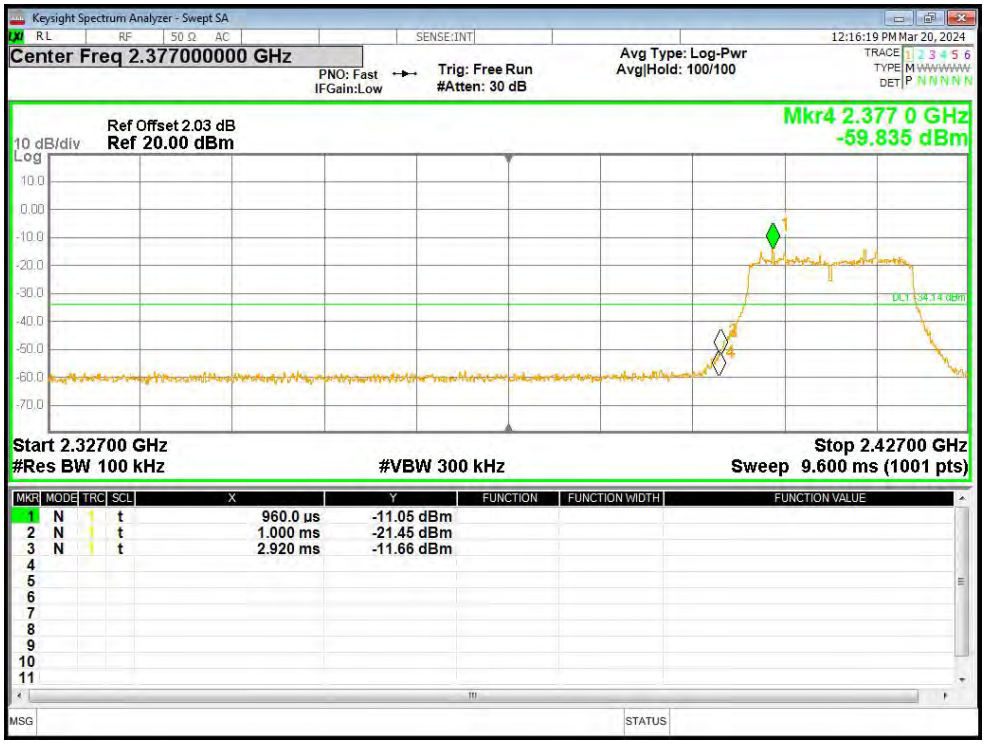


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.467 0 GHz	-16.617 dBm			
2	N	1	f	2.483 5 GHz	-60.006 dBm			
3	N	1	f	2.500 0 GHz	-60.130 dBm			
4	N	1	f	2.497 3 GHz	-56.826 dBm			
5								
6								
7								
8								
9								
10								
11								

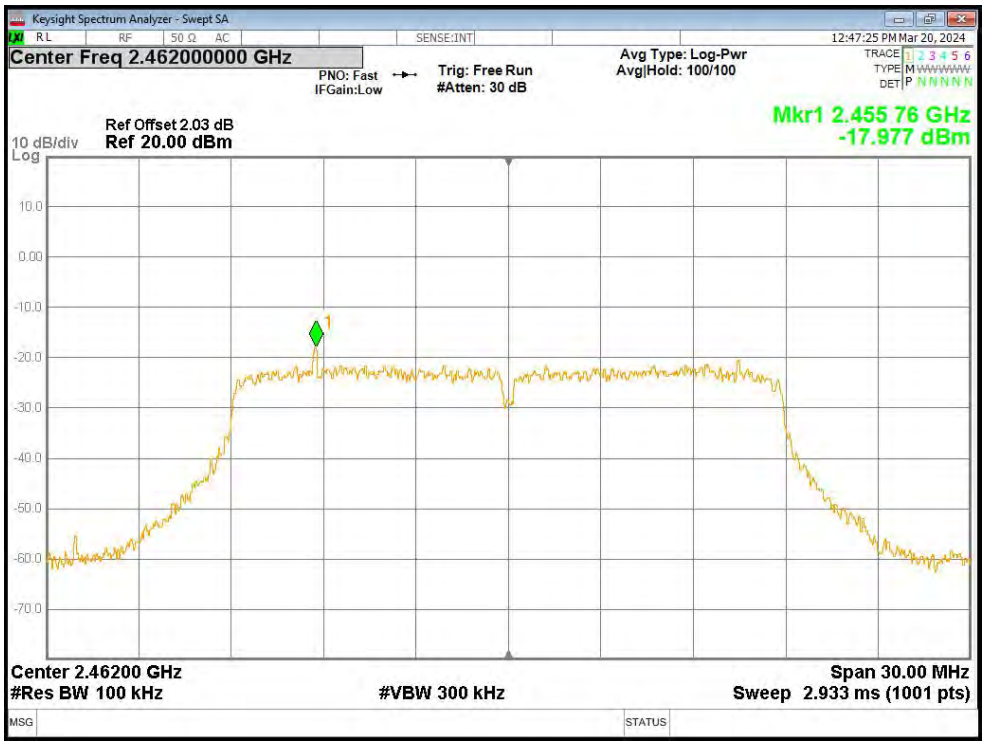
Band Edge NVNT n20 2412MHz Ant1 Ref



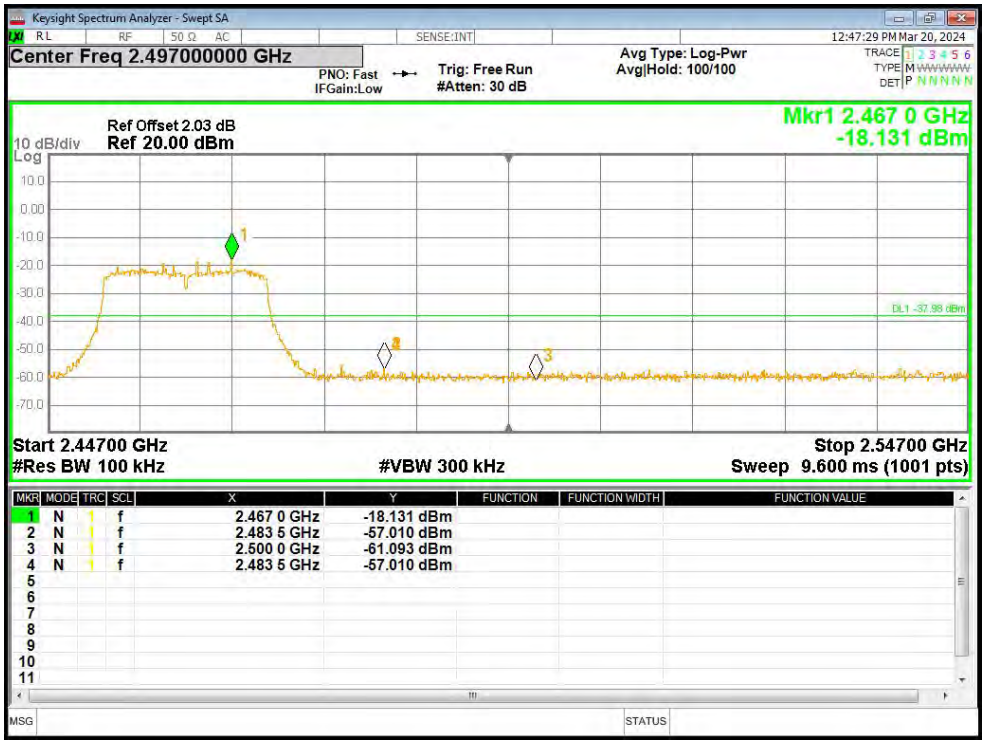
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref



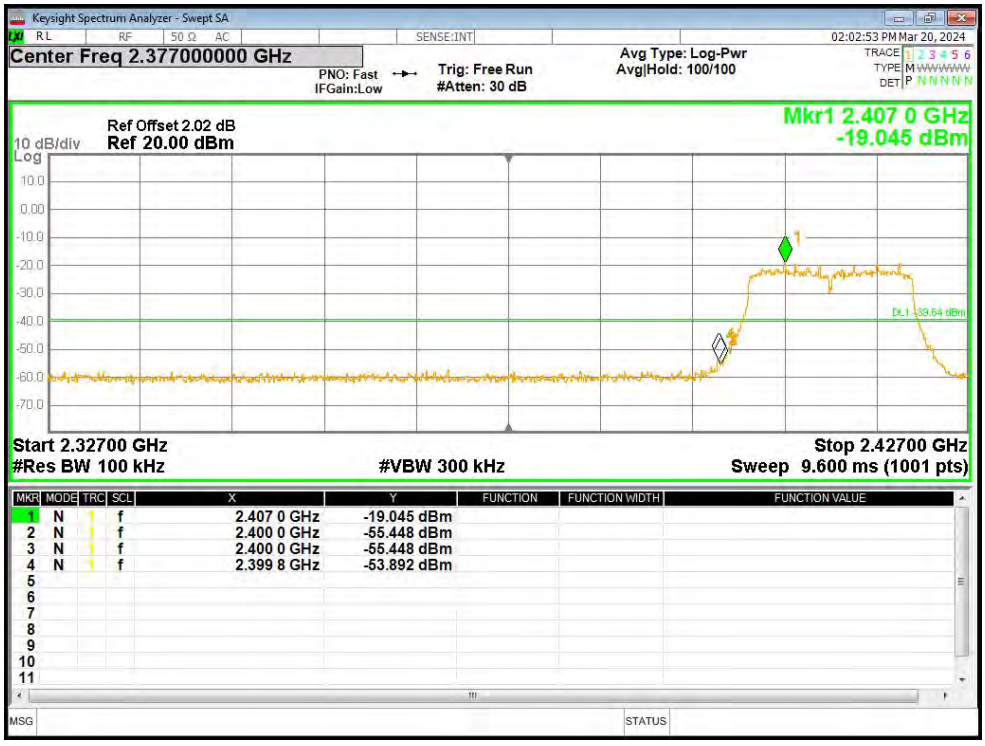
Band Edge NVNT n20 2462MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.467 0 GHz	-18.131 dBm			
2	N	1	f	2.483 5 GHz	-57.010 dBm			
3	N	1	f	2.500 0 GHz	-61.093 dBm			
4	N	1	f	2.483 5 GHz	-57.010 dBm			
5								
6								
7								
8								
9								
10								
11								

Band Edge NVNT n20 2412MHz Ant2 Ref

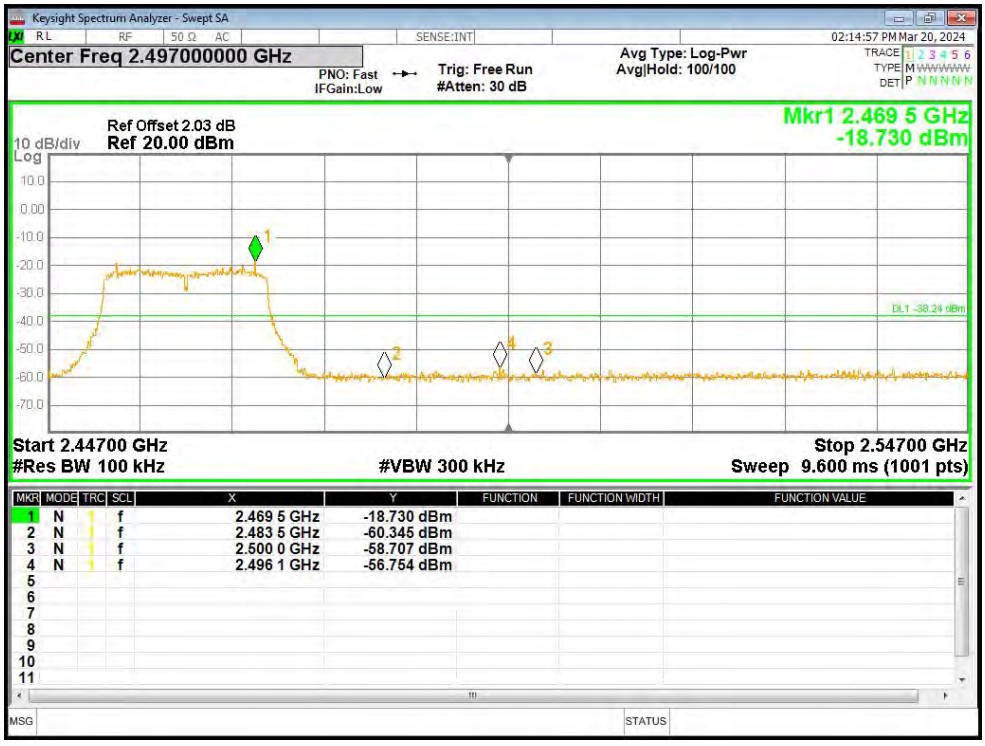
Band Edge NVNT n20 2412MHz Ant2 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.407 0 GHz	-19.045 dBm			
2	N	1	f	2.400 0 GHz	-55.448 dBm			
3	N	1	f	2.400 0 GHz	-55.448 dBm			
4	N	1	f	2.399 8 GHz	-53.892 dBm			
5								
6								
7								
8								
9								
10								
11								

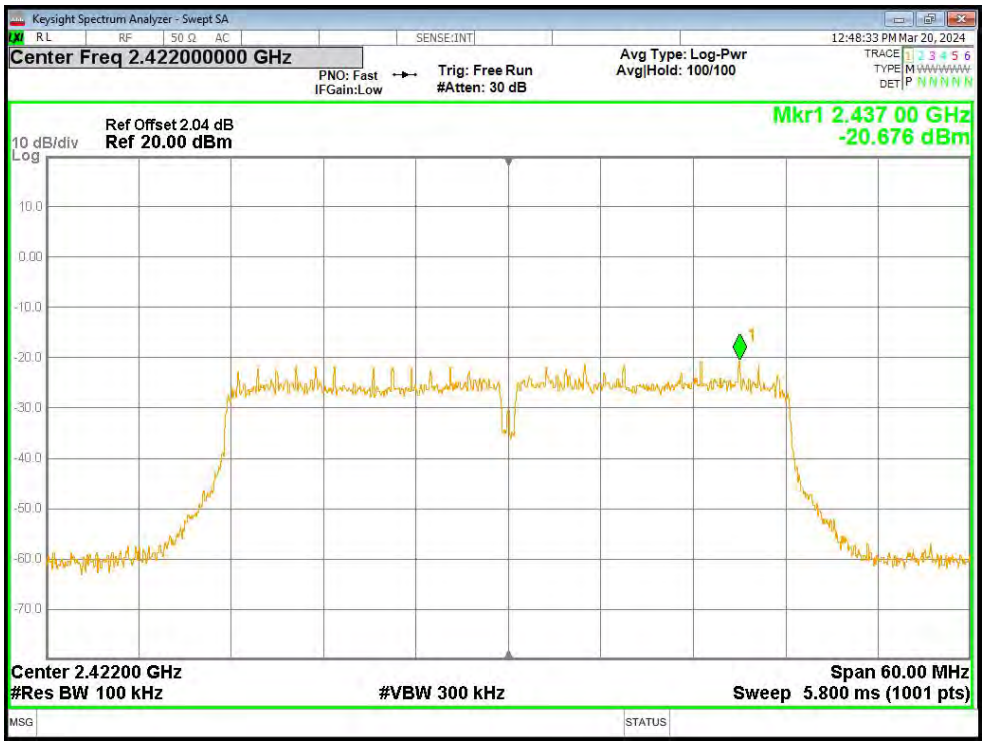
Band Edge NVNT n20 2462MHz Ant2 Ref

Band Edge NVNT n20 2462MHz Ant2 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.469 5 GHz	-18.730 dBm			
2	N	1	f	2.483 5 GHz	-60.345 dBm			
3	N	1	f	2.500 0 GHz	-58.707 dBm			
4	N	1	f	2.496 1 GHz	-56.754 dBm			
5								
6								
7								
8								
9								
10								
11								

Band Edge NVNT n40 2422MHz Ant1 Ref



Band Edge NVNT n40 2422MHz Ant1 Emission

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.424 5 GHz	-20.637 dBm			
2	N	1	f	2.400 0 GHz	-56.061 dBm			
3	N	1	f	2.400 0 GHz	-56.061 dBm			
4	N	1	f	2.399 8 GHz	-55.122 dBm			
5								
6								
7								
8								
9								
10								
11								