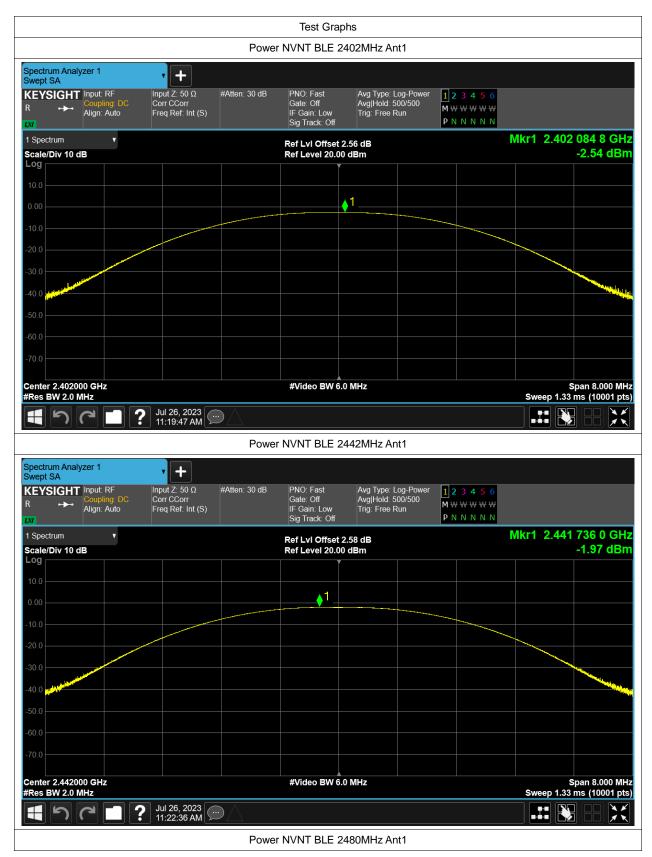


Test Data

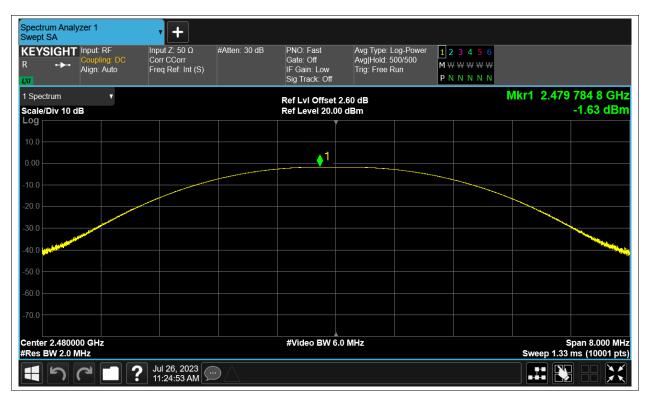
Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-2.535	30	Pass
NVNT	BLE	2442	Ant1	-1.969	30	Pass
NVNT	BLE	2480	Ant1	-1.629	30	Pass











-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	0.674	0.5	Pass
NVNT	BLE	2442	Ant1	0.673	0.5	Pass
NVNT	BLE	2480	Ant1	0.678	0.5	Pass







Spectru Occupi	um Analy ied BW	yzer 1		+	•									
R R	SIGHT	Input: Rf Coupling Align: Au	J: DC	Input Z: 5 Corr CCo Freq Ref:		Atten: 30 dB	Gate: 0	ree Run Off in: Low	Center Frec Avg Hold: 1 Radio Std: I		GHz			
1 Grapi	h	·	•				Pef I vi	Offset 2.6	0 dB			Mkr3 2.4	80339	000 GHz
	Div 10.0	dB						ue 22.60 c					-8	.53 dBm
Log 12.6								1						
2.60						2		Y`~		³				
-17.4														
-27.4 -37.4														
-37.4														
-57.4														
-67.4	_													
	2.4800 3W 100.						#Video	BW 300.0) KHZ			Sweep		Span 2 MHz (10001 pts)
2 Metri	cs		•											,
		0.000	upied Bar	duridtle										
			иріец Баі	1.0445	MHz					Total Power		4.43 dB	ßm	
		Tran	smit Frec	Error		359 Hz				% of OBW P	ower	99.00	%	
			Bandwid			677.6 kHz				x dB		-6.00 (dB	
	5		2?	Jul 26, 2 11:25:22	2023 2 AM									



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.039
NVNT	BLE	2442	Ant1	1.04
NVNT	BLE	2480	Ant1	1.04







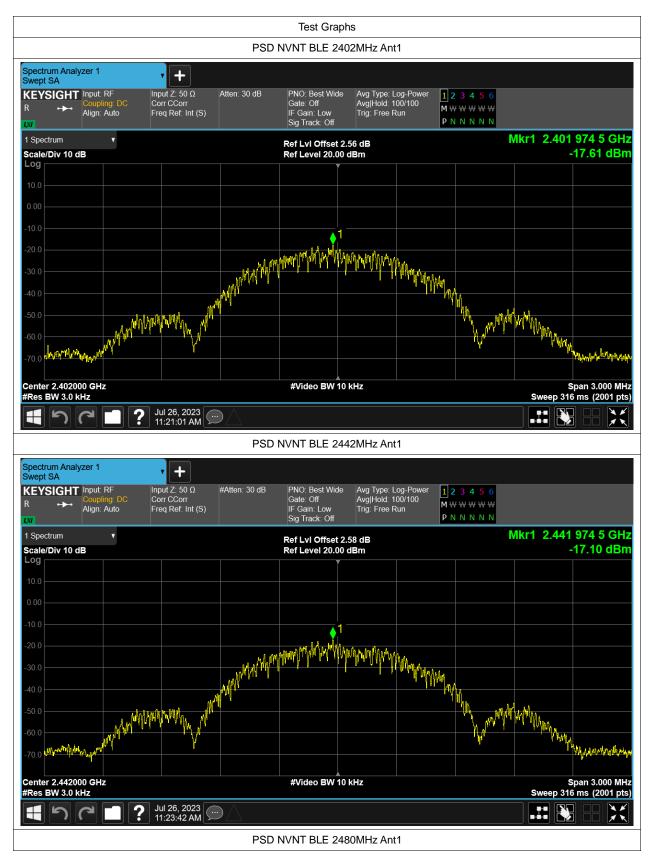
Spectr Occup	um Analy ied BW	zer 1		• +									
R R	SIGHT .≁	Input: R Couplin Align: A	ig: DC	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atte	n: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low		Freq: 2.4800000 d: 1000/1000 td: None	100 G	Hz		
1 Grap			V				Ref LvI Offset						
	'Div 10.0	dB					Ref Value 22.6	0 dBm					
Log 12.6													
2.60													
-7.40 -							\sim						
-17.4					+	\sim							
-27.4 -					1						\		
-37.4			~~~~	\sim								~~~~~	
-47.4 -57.4 ²	~~~~	mont.	and the second										mmm
-67.4													
Conto	r 2.48000					1	#Video BW 100) 00 kH-		+			Span 3 MHz
	3W 30.00						#VIGEO BVV TO	0.00 KHZ				Sweep 3.33	ms (10001 pts)
2 Metri			v										
		Occ	cupied Ban										
				1.0400 MHz					Total Powe	er		4.40 dBm	
			nsmit Freq			1 kHz			% of OBW	/ Pov	ver	99.00 %	
		x dE	3 Bandwidt	h	1.263	8 MHz			x dB			-26.00 dB	
	5		2	Jul 26, 2023 11:25:08 AM									



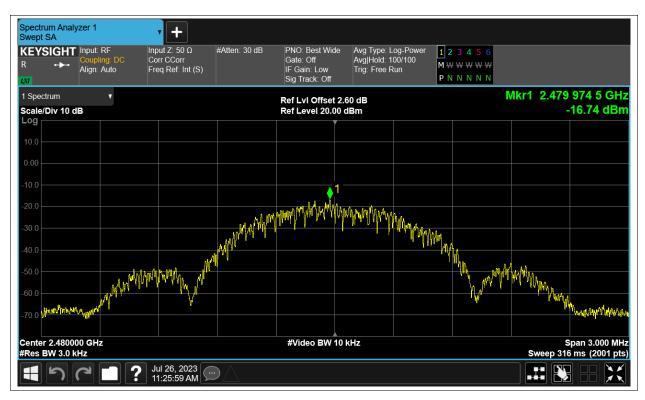
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-17.613	8	Pass
NVNT	BLE	2442	Ant1	-17.097	8	Pass
NVNT	BLE	2480	Ant1	-16.736	8	Pass











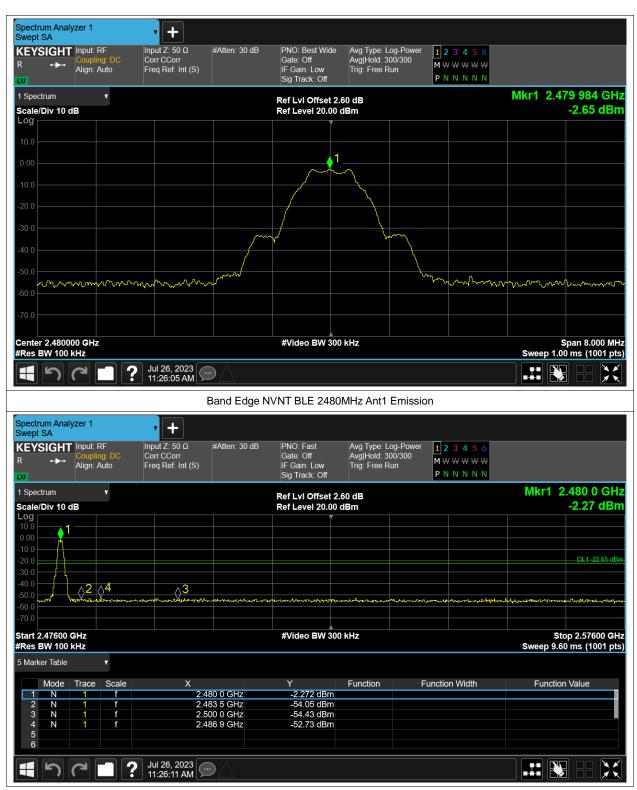
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-49.13	-20	Pass
NVNT	BLE	2480	Ant1	-50.08	-20	Pass



				Test Graph	IS		
			Band Edge	NVNT BLE 24	02MHz Ant1 Ref		
Spectrum Analyzer 1 Swept SA		• +					
	oling: DC C	nput Ζ: 50 Ω corr CCorr req Ref: Int (S)	#Atten: 30 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run	1 2 3 4 5 6 M₩₩₩₩₩₩ PNNNNN	
1 Spectrum Scale/Div 10 dB	•			Ref LvI Offset 2.			Mkr1 2.401 992 GHz -3.28 dBm
Log				Ref Level 20.00			-0.20 (1511)
10.0							
0.00				1			
-10.0							
-20.0							
-30.0			~~~		- Long		
-40.0							
-50.0	ᠬᡢ᠊᠕ᠰᡗᡐᠬᢦᠬ	An n man	mont		\	man and a start of the start of	mm have have the
-60.0							
-70.0							
Center 2.402000 GH	lz			#Video BW 300	kHz		Span 8.000 MHz
#Res BW 100 kHz	?	Jul 26, 2023					Sweep 1.00 ms (1001 pts)
		11:21:07 AM 🞾					
		11.21.07 AW					
		11.21.07 AW		VNT BLE 2402	MHz Ant1 Emissi	on	
Spectrum Analyzer 1 Swept SA			Band Edge N				
Swept SA KEYSIGHT Input R + Align	:: RF Ir bling: DC C	11.21.07 AW		PNO: Fast Gate: Off IF Gain: Low	MHz Ant1 Emissi Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run	123456 M₩₩₩₩₩₩	
Swept SA KEYSIGHT Input	:: RF Ir bling: DC C	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run	123456	Mkr1 2.402 2 GHz
Swept SA KEYSIGHT Input R	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩	
Swept SA KEYSIGHT Input R	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩	Mkr1 2.402 2 GHz
Swept SA KEYSIGHT Input R	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run 56 dB	123456 M₩₩₩₩₩₩	Mkr1 2.402 2 GHz
Swept SA KEYSIGHT Input R	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run 56 dB	1 2 3 4 5 6 M W W W W W P N N N N N	Mkr1 2.402 2 GHz -3.50 dBm
Swept SA KEYSIGHT Input R	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.	Avg Type: Log-Power Avg]Hold: 300/300 Trig: Free Run 56 dB	1 2 3 4 5 6 M W W W W W P N N N N N	Mkr1 2.402 2 GHz -3.50 dBm
Swept SA KEYSIGHT Input R	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00 (Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm	1 2 3 4 5 6 M W W W W W P N N N N N	Mkr1 2.402 2 GHz -3.50 dBm
Swept SA KEYSIGHT Input R → Coup 1 Spectrum Scale/Div 10 dB Dog 10.0 0 0 -10.0 - - -20.0 - - -30.0 - - -40.0 - - -60.0 - -	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm	1 2 3 4 5 6 M W W W W W P N N N N N	Mkr1 2.402 2 GHz -3.50 dBm
Swept SA KEYSIGHT Input R → Coup 1 Spectrum Scale/Div 10 dB Dog 10.0 - - -20.0 - - -30.0 - - -40.0 - - -50.0 - - -77.0 - - Start 2.30600 GHz - -	:: RF Ir Jing: DC C : Auto F	E T T T T T T T T T T T T T	Band Edge N	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00 (Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm	1 2 3 4 5 6 M W W W W W P N N N N N	Mkr1 2.402 2 GHz -3.50 dBm 011 2 dBm 011 2 dBm 011 2 dBm Stop 2.40600 GHz Sweep 9.60 ms (1001 pts)
Swept SA KEYSIGHT Input R	RF Ir Sling: DC C : Auto F	E T + pout Z: 50 Ω corr CCorr req Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00 (#Video BW 300 ¥Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm	1 2 3 4 5 6 M W W W W W P N N N N N	Mkr1 2.402 2 GHz -3.50 dBm
Swept SA KEYSIGHT Input R → Coup 1 Spectrum Scale/Div 10 dB Log 100 - - -00 - - -100 - - -200 - - -30.0 - - -40.0 - - -50.0 - - -70.0 - - Start 2.30600 GHz + - #Res BW 100 kHz 5 Marker Table 1 N 1 3	RF Ir Sling: DC C Auto F	E E E T t t t t t t t t t t t t t	Band Edge N #Atten: 30 dB #Atten: 30 dB 02 2 GHz 00 0 GHz 00 0 GHz	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00 (#Video BW 300 Y -3.501 dBm -56.41 dBm -56.08 dBm	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm		Mkr1 2.402 2 GHz -3.50 dBm 011 2 dBm 011 2 dBm 011 2 dBm Stop 2.40600 GHz Sweep 9.60 ms (1001 pts)
Swept SA KEYSIGHT Input R	E RF Ir Sing: DC C Auto F	E E E T t t t t t t t t t t t t t	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00 (#Video BW 300 #Video BW 300	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm		Mkr1 2.402 2 GHz -3.50 dBm 011 2 dBm 011 2 dBm 011 2 dBm Stop 2.40600 GHz Sweep 9.60 ms (1001 pts)
Swept SA KEYSIGHT Input Cour Align 1 Spectrum Scale/Div 10 dB 0 100 0 -100 0 -200 0 -300 0 -40.0 0 -50.0 0 -70.0 0 Start 2.30600 GHz #Res BW 100 kHz 5 Marker Table 1 1 N 2 N 3 N 4 N	RF Ing DC F	E E E T t t t t t t t t t t t t t	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2. Ref Level 20.00 (#Video BW 300 Y -3.501 dBm -56.41 dBm -56.08 dBm	Avg Type: Log-Power Avg Hold: 300/300 Trig: Free Run 56 dB dBm		Mkr1 2.402 2 GHz -3.50 dBm 011 2 dBm 011 2 dBm 011 2 dBm Stop 2.40600 GHz Sweep 9.60 ms (1001 pts)







Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-43.65	-20	Pass
NVNT	BLE	2442	Ant1	-44.98	-20	Pass
NVNT	BLE	2480	Ant1	-44.66	-20	Pass











