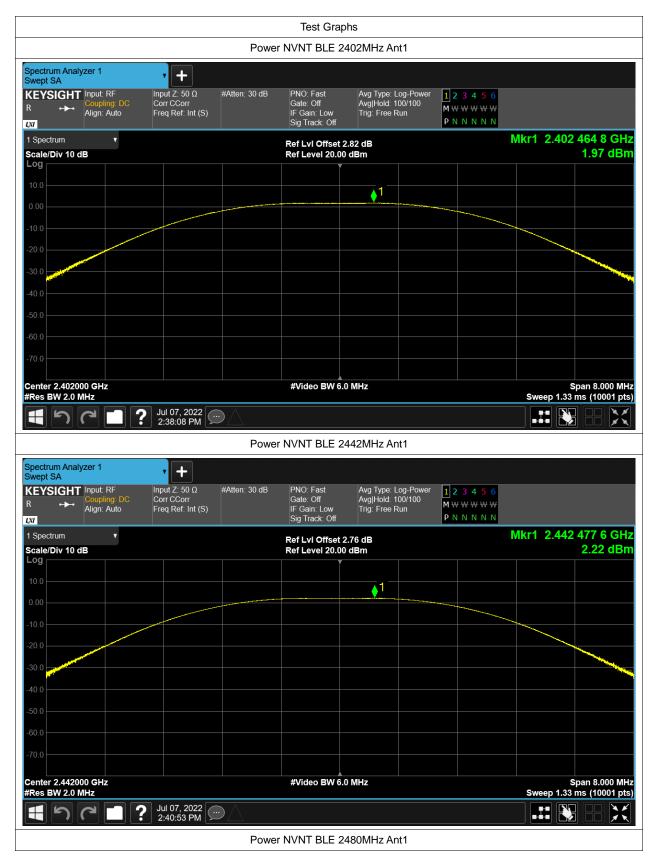


Test Data

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	1.968	30	Pass
NVNT	BLE	2442	Ant1	2.216	30	Pass
NVNT	BLE	2480	Ant1	1.852	30	Pass











-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	1.232	0.5	Pass
NVNT	BLE	2442	Ant1	1.395	0.5	Pass
NVNT	BLE	2480	Ant1	0.955	0.5	Pass







Spectrur Occupie		zer 1	Ţ	+						
KEYS R	IGHT ·≁·	Input: RF Coupling: DC Align: Auto	Corr	t Ζ: 50 Ω CCorr Ref: Int (S)	Atten: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2. Avg Hold: 10/10 Radio Std: Non			
1 Graph		•				Ref LvI Offset 2	2.81 dB		Mkr3 2.4804	85000 GHz
Scale/D	iv 10.0	dB				Ref Value 22.8				-6.75 dBm
Log 12.8 2.81 -7.19 -17.2					and man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	man 1	Martin -		
-27.2 -37.2 -47.2 -57.2	᠕᠕᠁᠕	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	m hard	M	V V V V V V V V V V V V V V V V V V V				Marth and Marth	hor when when
-67.2										
Center 2 #Res BV						#Video BW 300	.00 kHz		Sweep 1.33	Span 5 MHz ms (10001 pts)
2 Metrics	3	•								
		Occupied	d Bandwidt 2.1	n 205 MHz			То	tal Power	5.02 dBm	
		Transmit x dB Bar	Freq Error		7.357 kHz 954.6 kHz		% x c	of OBW Power dB	99.00 % -6.00 dB	
	う (? Jul 2:4	07, 2022 3:46 PM	\mathbb{D}					



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	2.118189904
NVNT	BLE	2442	Ant1	2.111591254
NVNT	BLE	2480	Ant1	2.09892009







Spectrum		zer 1		• +							
R R R	GHT ·≁·	Input: RI Coupling Align: Ai	g: DC	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg Hold: Radio Std:				
1 Graph			•			Ref LvI Offset	2.81 dB				
Scale/Di	v 10.0	dB				Ref Value 22.8	l dBm				
Log 12.8											
2.81											
-7.19						s month	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- Manuary -			
-17.2				~~~	- marine				\sim		
-27.2		A -	~~~~~						·		
-47.2	~~~~		a the street	m -					- ha	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	hanna
-57.2											- Marga
-67.2					1						
Center 2						#Video BW 100	.00 kHz				Span 5 MHz
#Res BW	/ 30.00	0 kHz								Sweep 5.33	ms (10001 pts)
2 Metrics			•								
		Occi	upied Band	width							
				2.0989 MHz				Total Power		7.76 dBm	
		Tran	smit Freq I	Error	5.142 kHz			% of OBW Power		99.00 %	
			Bandwidth		2.636 MHz			x dB		-26.00 dB	
	う (2	Jul 07, 2022 2:43:39 PM	\Box						



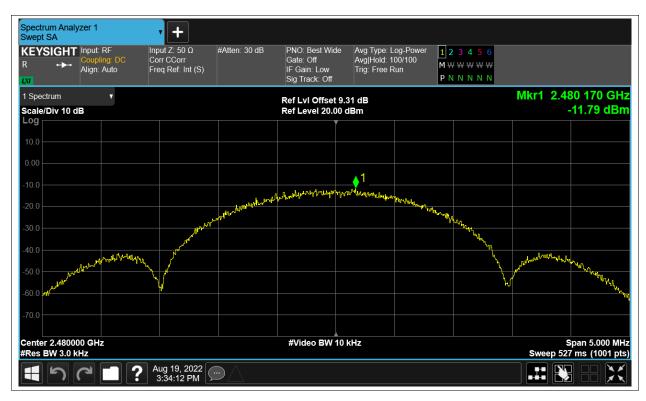
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-10.654	8	Pass
NVNT	BLE	2442	Ant1	-10.321	8	Pass
NVNT	BLE	2480	Ant1	-11.786	8	Pass











Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-50.24	-20	Pass
NVNT	BLE	2480	Ant1	-52.52	-20	Pass







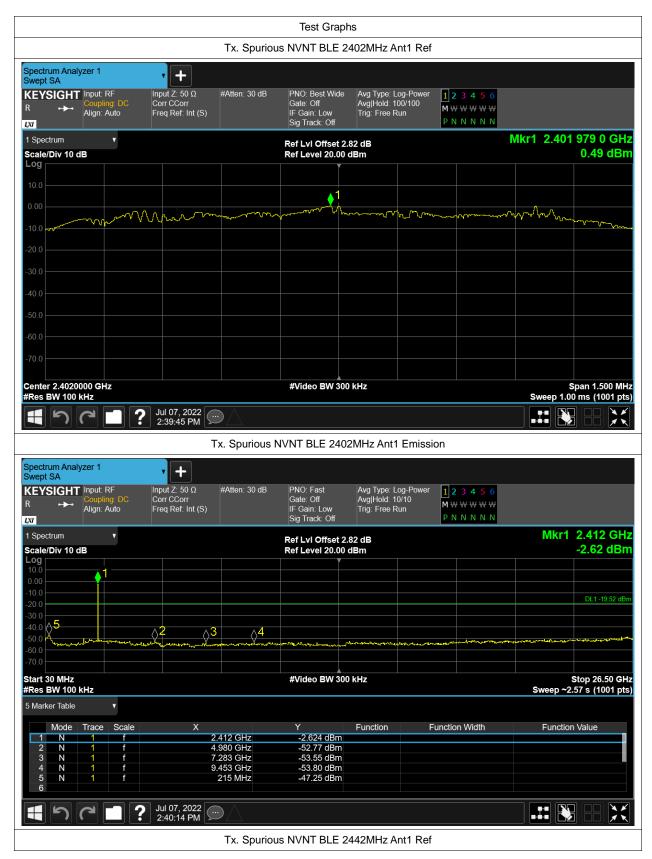




Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-47.74	-20	Pass
NVNT	BLE	2442	Ant1	-46.93	-20	Pass
NVNT	BLE	2480	Ant1	-46.84	-20	Pass







Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R Input: RF Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Best Wide Gate: Off IF Gain: Low	Avg Type: Log Avg Hold: 100/ Trig: Free Run	/100 M ₩	3 4 5 6 ₩₩₩₩₩ INNNN		
1 Spectrum			Sig Track: Off	76 40	PI		Mkr1 2.442	460 5 GHz
Scale/Div 10 dB			Ref LvI Offset 2 Ref Level 20.00					0.21 dBm
Log			Ĭ					
10.0							↓ 1	
0.00	MM	Marrison Marrison		-Vurnen all	Ann	vm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
-10.0								
-20.0								
-30.0								
-40.0								
-50.0								
-60.0								
-70.0								
Center 2.4420000 GHz #Res BW 100 kHz			#Video BW 30	J KHZ				pan 1.500 MHz) ms (1001 pts)
1	Jul 07, 2022							
	 T	x. Spurious N						
		A. Opunous i		ΖΙνίπζ ΑΠί Γ	mission			
Spectrum Analyzer 1		x. Opunous r	WINT DEE 244		mission			
Spectrum Analyzer 1 Swept SA	• +							
Swept SA KEYSIGHT Input: RF Coupling: DC	Input Ζ: 50 Ω Corr CCorr	#Atten: 30 dB	PNO: Fast Gate: Off	Avg Type: Log Avg Hold: 10/1	-Power 1 2	: 3 4 5 6 /₩₩₩₩		
Swept SA KEYSIGHT Input: RF Counting: DC	Γ		PNO: Fast	Avg Type: Log	⊢Power 1 2 10 M ₩			
Swept SA KEYSIGHT R Input: RF Coupling: DC Align: Auto 1 Spectrum	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	2.439 GHz
Swept SA KEYSIGHT R Coupling: DC Align: Auto VV 1 Spectrum Scale/Div 10 dB Log	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	2.439 GHz 1.22 dBm
Swept SA KEYSIGHT R 1 Spectrum Scale/Div 10 dB Log 0.00	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	
Swept SA KEYSIGHT Input: RF R Align: Auto LV 1 Spectrum Scale/Div 10 dB Log 10.0	Input Ζ: 50 Ω Corr CCorr		PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	
Swept SA KEYSIGHT R Input: RF Coupling: DC Align: Auto Scale/Div 10 dB Log 10.0 0.00 -10.0	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	1.22 dBm
Swept SA KEYSIGHT Input: RF R → Ispectrum × Scale/Div 10 dB 1 10.0 - -20.0 - -30.0 - -50.0 -	Input Ζ: 50 Ω Corr CCorr	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	1.22 dBm
Swept SA KEYSIGHT Input: RF R Coupling: DC Align: Auto Align: Auto 1 Spectrum Scale/Div 10 dB Log 1 10.0 1 -200 - -30.0 - -5 -	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 d B	⊢Power 1 2 10 M ₩	/₩₩₩₩	Mkr1	1.22 dBm
Swept SA KEYSIGHT Input: RF R →→ Align: Auto Lvy I Spectrum v Scale/Div 10 dB 0.00 1 0.00 -10.0 -30.0 -5 -6 -30.0 -5 -6 -6 -70.0 Start 30 MHz Start 30 MHz -6	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	⊢Power 1 2 10 M ₩	/₩₩₩₩		1.22 dBm
Swept SA KEYSIGHT R Input: RF Gouping: DC Align: Auto 1 Spectrum Scale/Div 10 dB 100	Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	⊢Power 1 2 10 M ₩	/₩₩₩₩		1.22 dBm
Swept SA KEYSIGHT Input: RF R Input: RF Coupling: DC Align: Auto I Spectrum Imput: RF Scale/Div 10 dB Imput: RF Log Imput: RF 100 Imput: RF Scale/Div 10 dB Imput: RF 200 Imput: RF Scale/Div 10 dB Imput: RF Scale/Div 10 dB Imput: RF 100 Imput: RF Imput: RF Scale/Div 10 dB Imput: RF Imput: RF 200 Imput: RF Imput: RF 300 Imput: RF Imput: RF <td>Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)</td> <td>#Atten: 30 dB</td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00</td> <td>Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm</td> <td>-Power [] 2 0 M ↔ P №</td> <td>/₩₩₩₩</td> <td></td> <td>1.22 dBm DL1 -19.79 dBm</td>	Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	-Power [] 2 0 M ↔ P №	/₩₩₩₩		1.22 dBm DL1 -19.79 dBm
Swept SA KEYSIGHT R Input: RF Coupling: DC Align: Auto 1 Spectrum • Scale/Div 10 dB • 10.0 • 10.0 • -0.0 • -30.0 • -30.0 • -50.0 • -60.0 • -70.0 • Start 30 MHz #Res EW 100 kHz 5 Marker Table • Mode Trace 1 1 2 1 1 1	Linput Z: 50 Ω Corr CCorr Freq 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 Y 1.216 dBm -53.19 dBm	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	-Power [] 2 0 M ↔ P №		Sweep ~2.	1.22 dBm DL1 -19.79 dBm
Swept SA KEYSIGHT R Input: RF Coupling: DC Align: Auto 1 Spectrum • 200 • 10.0 • -200 • -30.0 • -30.0 • -30.0 • -30.0 • -30.0 • -30.0 • -30.0 • -30.0 • -5 • -60.0 • -70.0 • Start 30 MHz * #Res BW 100 kHz * 5 Marker Table • Mode Trace 2 N 1 f 3 N 1 f	Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 W WVideo BW 300 Y 1.216 dBm	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	-Power [] 2 0 M ↔ P №		Sweep ~2.	1.22 dBm DL1 -19.79 dBm
Swept SA KEYSIGHT Input: RF R Input: RF Coupling: DC Align: Auto I Spectrum Imput: RF Scale/Div 10 dB Imput: RF Log Imput: RF 1 Spectrum Imput: RF Scale/Div 10 dB Imput: RF Log Imput: RF Scale/Div 10 dB Imput: RF Solution Imput: RF Start 30 MHz Imput: RF Imput: RF Imput: RF Mode Trace Scale Imput: RF Imput: RF Imput: RF Mode Trace Scale Imput: RF Imput: RF Imput: RF Mode Trace Scale Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Start 30 MHz Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF Imput: RF <td>Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)</td> <td>#Atten: 30 dB</td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 300 #Video BW 300 Y 1.216 dBm -53.19 dBm -54.92 dBm</td> <td>Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm</td> <td>-Power [] 2 0 M ↔ P №</td> <td></td> <td>Sweep ~2.</td> <td>1.22 dBm DL1 -19.79 dBm</td>	Linput Z: 50 Ω Corr CCorr Freq 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 Y 1.216 dBm -53.19 dBm -54.92 dBm	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	-Power [] 2 0 M ↔ P №		Sweep ~2.	1.22 dBm DL1 -19.79 dBm
Swept SA KEYSIGHT R Input: RF Coupling: DC Align: Auto 1 Spectrum • Scale/Div 10 dB • 100 • 100 • 100 • 100 • 200 • -300 <td>Input Z: 50 Ω Corr CCorr Freq Ref: Int (S)</td> <td>#Atten: 30 dB</td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 300 #Video BW 300 Y 1.216 dBm -54.92 dBm -54.92 dBm -53.90 dBm</td> <td>Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm</td> <td>-Power [] 2 0 M ↔ P №</td> <td></td> <td>Sweep ~2.</td> <td>1.22 dBm</td>	Input Z: 50 Ω Corr CCorr Freq 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 Y 1.216 dBm -54.92 dBm -54.92 dBm -53.90 dBm	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm	-Power [] 2 0 M ↔ P №		Sweep ~2.	1.22 dBm
Swept SA KEYSIGHT R Input: RF Coupling: DC Align: Auto 1 Spectrum • Scale/Div 10 dB • 100 • 100 • 100 • 100 • 200 • -300 <td>Linput Z: 50 Ω Corr CCorr Freq Ref: Int (S)</td> <td>#Atten: 30 dB</td> <td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 300 #Video BW 300 Y 1.216 dBm -54.92 dBm -54.92 dBm -53.90 dBm</td> <td>Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm </td> <td>Power 1 2 M ↔ P N</td> <td></td> <td>Sweep ~2.</td> <td>1.22 dBm</td>	Linput Z: 50 Ω Corr CCorr Freq 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 Y 1.216 dBm -54.92 dBm -54.92 dBm -53.90 dBm	Avg Type: Log Avg Hold: 10/1 Trig: Free Run .76 dB dBm 	Power 1 2 M ↔ P N		Sweep ~2.	1.22 dBm



