

Test Data

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-4.236	30	Pass
NVNT	BLE	2442	Ant1	-3.844	30	Pass
NVNT	BLE	2480	Ant1	-3.297	30	Pass











-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	0.688	0.5	Pass
NVNT	BLE	2442	Ant1	0.686	0.5	Pass
NVNT	BLE	2480	Ant1	0.682	0.5	Pass







Spectru Occupie	ed BW		• +	•				
KEYS R	SIGHT ↔	Input: RF Coupling: DC Align: Auto	Input Z: 50 Corr CCor Freq Ref:		Trig: Free Run Gate: Off #IF Gain: Low	Center Freq: 2.480000000 GHz Avg Hold: 500/500 Radio Std: None		
1 Graph	ı	• •		I	Ref LvI Offset 2	81 dB	Mkr3 2.4803	42000 GHz
	Div 10.0	dB			Ref Value 22.81			-12.89 dBm
Log 12.8								
2.81					k	1		
-7.19				2	Y	3		
-17.2								
-27.2								
-47.2								
-57.2								
-67.2								
Center #Res B					#Video BW 300.	00 kHz	Sweep 1.33	Span 2 MHz ms (10001 pts)
2 Metric	s	•						
		Occupied	Bandwidth					
		a coapiaa i	1.0557	MHz		Total Power	-0.57 dBm	
		Transmit F	req Error	982 Hz		% of OBW Powe	r 99.00 %	
		x dB Band	width	681.9 kHz		x dB	-6.00 dB	
	ら		? Jun 15, 3 9:24:36	2022 AM				



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.053854297
NVNT	BLE	2442	Ant1	1.055991155
NVNT	BLE	2480	Ant1	1.055919838











Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-10.649	8	Pass
NVNT	BLE	2442	Ant1	-10.24	8	Pass
NVNT	BLE	2480	Ant1	-9.75	8	Pass











Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-42.44	-20	Pass
NVNT	BLE	2480	Ant1	-44.54	-20	Pass



		Test Graphs		
	Band E	dge NVNT BLE 2402MHz	z Ant1 Ref	
Spectrum Analyzer 1 Swept SA	• +			
KEYSIGHT Input: RF Coupling: DC	Input Z: 50 Ω #Atten: 30 dt Corr CCorr Freq Ref: Int (S)	Gate: Off Avg Ho	pe: Log-Power lid: 300/300 ree Run P N N N N N	
1 Spectrum v		Ref LvI Offset 2.82 dB		Mkr1 2.402 008 GHz
Scale/Div 10 dB		Ref Level 20.00 dBm		-7.94 dBm
10.0				
0.00		1		
-10.0		\rightarrow		
-20.0				
-30.0				
-50.0				
-60.0				when when when when when when when when
-70.0				
Center 2.402000 GHz		#Video BW 300 kHz		Span 8.000 MHz
	Jun 15, 2022			Sweep 1.00 ms (1001 pts)
	9.30.27 AWI			
	Band Edge	e NVNT BLE 2402MHz A	nti Emission	
Spectrum Analyzer 1 Swept SA				
Coupling: DC	Input Z: 50 Ω #Atten: 30 dl	B PNO: Fast Avg Ty	pe: Log-Power 1 2 3 4 5 6	
Align: Auto	Corr CCorr Freq Ref: Int (S)	Gate: Off Avg Ho	ree Run P N N N N N	
Align: Auto		Gate: Off Avg Hc IF Gain: Low Trig: Fi Sig Track: Off Ref LvI Offset 2.82 dB	ree Run	Mkr1 2.402 0 GHz
Align: Auto		Gate: Off Avg Hc IF Gain: Low Trig: Fi Sig Track: Off	ree Run	Mkr1 2.402 0 GHz -7.89 dBm
Align: Auto		Gate: Off Avg Hc IF Gain: Low Trig: Fi Sig Track: Off Ref LvI Offset 2.82 dB	ree Run	
Align: Auto Align: Auto Al		Gate: Off Avg Hc IF Gain: Low Trig: Fi Sig Track: Off Ref LvI Offset 2.82 dB	ree Run	
Align: Auto Align:	Freq Ref: Int (S)	Gate: Off Avg Hc IF Gain: Low Trig: Fi Sig Track: Off Ref LvI Offset 2.82 dB	ree Run	-7.89 dBm
Align: Auto I Spectrum V Scale/Div 10 dB Log		Gate: Off Avg Hc IF Gain: Low Trig: Fr Sig Track: Off Ref LvI Offset 2.82 dB Ref Level 20.00 dBm	P N N N N N	-7.89 dBm
Align: Auto I Spectrum V Scale/Div 10 dB Log Log	Freq Ref: Int (S)	Gate: Off Avg Hc IF Gain: Low Trig: Fr Sig Track: Off Ref Level 20.00 dBm	P N N N N N	-7.89 dBm
Align: Auto Log 100 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -70.0	Freq Ref: Int (S)	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.82 dB Ref Level 20.00 dBm	P N N N N N	-7.89 dBm
Align: Auto Log 1 Spectrum Scale/Div 10 dB Log 10.0 -20.0 -30.0 -40.0 -50.0 -70.0 Start 2.30600 GHz #Res BW 100 kHz 5 Marker Table Mode	Freq Ref: Int (S)	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2.82 dB Ref Level 20.00 dBm #Video BW 300 kHz Y Function	Pee Run P N N N N N P N N N N N	-7.89 dBm
Align: Auto I Spectrum I Spectrum V Scale/Div 10 dB Log 10.0 20.0	Freq Ref: Int (S)	Gate: Off Gate: Coff IF Gain: Low Sig Track: Off Trig: Fr Sig Track: Off Ref Level 20.00 dBm Free Level 20.00 dBm	Pee Run P N N N N N P N N N N N	-7.89 dBm 1 0L1-2 % dBm 0L1-2 % dBm Stop 2.40600 GHz Sweep 9.60 ms (1001 pts)
Align: Auto Log 1 Spectrum 1 Spectrum 200	Freq Ref: Int (S) Image: State of the state	Gate: Off Gate: Construction of the second s	Pee Run P N N N N N P N N N N N	-7.89 dBm 1 0L1-2 % dBm 0L1-2 % dBm Stop 2.40600 GHz Sweep 9.60 ms (1001 pts)
Align: Auto Log 1 Spectrum Scale/Div 10 dB Log 10.0 -0.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 2.30600 GHz #Res BW 100 kHz 5 Marker Table V Mode 1 N 1 f 3 N 4 N	K 2.402 0 GHz 2.400 0 GHz 2.390 0 GHz	Gate: Off Avg Hc IF Gain: Low Trig: Fr Sig Track: Off Avg Hc Ref Lvl Offset 2.82 dB Ref Level 20.00 dBm #Video BW 300 kHz #Video BW 300 kHz Y Function -7.894 dBm -53.03 dBm -54.02 dBm	Pee Run P N N N N N P N N N N N	-7.89 dBm







Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-37.57	-20	Pass
NVNT	BLE	2442	Ant1	-33.28	-20	Pass
NVNT	BLE	2480	Ant1	-39.2	-20	Pass











