

Test Data

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	3.911	30	Pass
NVNT	BLE	2442	Ant1	2.301	30	Pass
NVNT	BLE	2480	Ant1	2.096	30	Pass



			Graphs		
		Power NVN1 BI	E 2402MHz Ant1		
Spectrum Analyzer 1 Swept SA	• +				
KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto	Input Z: 50 Ω #A Corr CCorr Freq Ref: Int (S)	atten: 30 dB PNO: Fasl Gate: Off IF Gain: Lo Sig Track:	Avg Hold: 100/1 bw Trig: Free Run	Power 00 M W W W W P N N N N N	
1 Spectrum v			fset 3.06 dB		Mkr1 2.402 167 2 GH
Scale/Div 10 dB Log		Ref Level	20.00 dBm		3.91 dBn
10.0					
0.00			1		
-10.0					
-20.0					
-30.0					
-40.0					
-50.0					
-60.0					
-70.0					
Center 2.402000 GHz		#Video E	W 6.0 MHz		Span 8.000 MH
#Res BW 2.0 MHz					Sweep 1.33 ms (10001 pts
1 1 1 1 1	Aug 09, 2024 5:46:00 AM				
		Power NVNT BI	E 2442MHz Ant1		
Spectrum Analyzer 1 Swept SA	• +				
Swept SA KEYSIGHT Input: RF Counting: DC		Atten: 30 dB PNO: Fasi Gate: Off	: Avg Type: Log-F Avg Hold: 100/1	00	
Swept SA	Input Ζ: 50 Ω #A		Avg Hold: 100/1 bw Trig: Free Run		
Swept SA KEYSIGHT R T ↔ Coupling: DC Align: Auto I Spectrum Scale/Div 10 dB	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 bw Trig: Free Run	00 M ₩ ₩ ₩ ₩	Mkr1 2.442 020 8 GH 2.30 dBn
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto UV 1 Spectrum v Scale/Div 10 dB	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run Off fset 3.08 dB	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT R T M 1 Spectrum Y Scale/Div 10 dB	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run Off fset 3.08 dB	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto UV 1 Spectrum v Scale/Div 10 dB	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT Input: RF R T Coupling: DC Align: Auto V Scale/Div 10 dB Log 10.0	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT R T → Gouping: DC Align: Auto VV 1 Spectrum V Scale/Div 10 dB Log 10.0 0.00	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT Input: RF R T I Spectrum V Scale/Div 10 dB Log 0.00 -10.0 0.00	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT R T Spectrum Scale/Div 10 dB Cog 10.0 .00 .00 .00 .00 .00 .00 .	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT R T Spectrum Scale/Div 10 dB Coupling: DC Align: Auto Scale/Div 10 dB Coupling: DC Align: Auto CV Scale/Div 10 dB COUPLING C	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto DV V 1 Spectrum V Scale/Div 10 dB O Log O 10.0 O -10.0 O -30.0 O	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto DV Y Scale/Div 10 dB Log	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	
Swept SA KEYSIGHT Input: RF Coupling: DC Align: Auto VV 1 Spectrum Scale/Div 10 dB Log 10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvl Of	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	2.30 dBn
Swept SA KEYSIGHT Input: RF R T Input: RF Coupling: DC Align: Auto INV V Scale/Div 10 dB V Log V 10.0 V -10.0 V -20.0 V -30.0 V -50.0 V -60.0 V -70.0 V Center 2.442000 GHz	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvvl Gate: Off Ref Lvvl Gate: Off Signature Ref Lvvl Gate: Off Signature Signat	Avg Hold: 100/1 ow Trig: Free Run off fset 3.08 dB 20.00 dBm	00 M ₩ ₩ ₩ ₩	2.30 dBn
Swept SA KEYSIGHT Input: RF R T I Spectrum V Scale/Div 10 dB Log 10.0 -0.0 -10.0 -20.0 -30.0 -50.0 -60.0 -70.0 Center 2.442000 GHz #Res BW 2.0 MHz	Input Z: 50 Ω #A Corr CCorr	Gate: Off IF Gain: Li Sig Track: Ref Lvvl Gate: Off Ref Lvvl Gate: Off Signature Ref Lvvl Gate: Off Signature Signat	Avg Hold: 100/1 Off Trig: Free Run fset 3.08 dB 20.00 dBm 1	00 M ₩ ₩ ₩ ₩	2.30 dBn







-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	0.662	0.5	Pass
NVNT	BLE	2442	Ant1	0.665	0.5	Pass
NVNT	BLE	2480	Ant1	0.663	0.5	Pass







Spectru Occupi	um Analy ed BW	/zer 1		•	-						
KEYS R T	SIGHT	Input: R Couplin Align: A	g: DC	Input Z: 5 Corr CCc Freq Ref	orr	Atten: 30 dB	Trig: Free Run Gate: Off #IF Gain: Low	Center Fre Avg Hold: Radio Std:			
1 Grapi	h		v				Ref LvI Offset	3.10 dB		Mkr3 2.4803	29000 GHz
	Div 10.0	dB					Ref Value 23.1				-7.33 dBm
Log 13.1 -											
3.10 -									3		
-6.90 -16.9											
-26.9 -			-								
-36.9 -46.9											
-46.9 -56.9											
-66.9 -											
	2.4800 3W 100.0						#Video BW 300).00 kHz		Sweep 1.33	Span 2 MHz ms (10001 pts)
2 Metrie	CS		v								
		000	upied Bai	ndwidth							
				1.0540	MHz				Total Power	5.48 dBm	
			nsmit Free			2.218 kHz			% of OBW Power	99.00 %	
		x dE	Bandwid	dth		662.8 kHz			x dB	-6.00 dB	
	5]?	Aug 09 5:41:0	, 2024 7 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	1.041











Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-12.281	8	Pass
NVNT	BLE	2442	Ant1	-13.875	8	Pass
NVNT	BLE	2480	Ant1	-14.044	8	Pass



				Test Gra	phs				
			PSD	NVNT BLE 24	402MHz Ant	t1			
Spectrum Analy Swept SA	vzer 1	+							
	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	Atten: 30 dB	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off	e Avg Type: L Avg Hold: 1 Trig: Free F	00/100 M ₩	: 3 4 5 6 ∀₩₩₩₩ INNNN		
1 Spectrum	•			Ref LvI Offset			I		016 5 GHz
Scale/Div 10 d	B			Ref Level 20.0	0 dBm				-12.28 dBm
10.0									
0.00									
-10.0				0	↓ 1				
-20.0			A MARYNA	mapedrallylownmeaners	Annan Merria	www.www.wight			
-30.0			When Monthly			www.www.www.www.www.www.www.www.www.ww			
-40.0			r ^o						
-50.0	Mallhur and M						Ward Ward	- Contraction of the second se	
-70.0 4141-1414141414141414141414141414141414	AN MAR								"The anneal the second
Center 2.40200				#Video BW 1	10 kHz				Span 3.000 MHz
#Res BW 3.0 k		Aug 09, 2024 5:46:56 AM							
		∫ 5:46:56 AM >							
			PSD	NVNT BLE 24	442MHZ AN	[1			
Spectrum Analy Swept SA		• +							
KEYSIGHT R T ++-	Input: RF Coupling: DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Best Wid Gate: Off IF Gain: Low Sig Track: Off	e Avg Type: L Avg Hold: 1 Trig: Free F	00/100 M ₩	: 3 4 5 6 /₩₩₩₩ N N N N		
1 Spectrum									
Scale/Div 10 d	T IB			Ref Lvi Offset Ref Level 20.0			I		016 5 GHz -13.88 dBm
Log									
Log 10.0									
Log 10.0 0.00									
Log 10.0 0.00 -10.0				Ref Level 20.0	0 dBm				
Log 10.0 .000 -10.0 -20.0					0 dBm	Wat Valid In Market			
Log 10.0 .000 .10.0 .20.0 .30.0		ـــــــــــــــــــــــــــــــــــــ		Ref Level 20.0	0 dBm	Malinghan M			
Log 10.0 .000 -10.0 -20.0		Nummer Anna and And And And And And And		Ref Level 20.0	0 dBm	Mag 10 20 and 10 and	March Million		
Log 10.0 .00 -10.0 -20.0 -30.0 -40.0				Ref Level 20.0	0 dBm	Mary Marine and Ma	North Land		
Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0	IB IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Part Part Part Part Part Part Part Part	Ref Level 20.0	0 dBm		North Land	There and the second	13.88 dBm
Log 10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -0 -0 -0 -0 -0 -0 -0 -0 -0 -			A A A A A A A A A A A A A A A A A A A	Ref Level 20.0	0 dBm		North Land	Thurky Minderson Market North	-13.88 dBm
Log 10.0 .00 .10.0 .20.0 .30.0 .40.0 .50.0 .60.0 .70.0 Center 2.44200				Ref Level 20.0	0 dBm		North Land		-13.88 dBm







Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-56	-20	Pass
NVNT	BLE	2480	Ant1	-54.82	-20	Pass



			Test Grap	hs			
		Band Edge	e NVNT BLE 2	402MHz Ant1 F	Ref		
Spectrum Analyzer 1 Swept SA	• +						
KEYSIGHT Input: RF R T ↔ Coupling DC Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Po Avg Hold: 300/30 Trig: Free Run			
1 Spectrum 🔻			Ref LvI Offset 3	.06 dB		Mkr1 2.40	
Scale/Div 10 dB Log			Ref Level 20.00				0.12 dBm
10.0							
0.00				♦ 1			
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-10.0							
-20.0							
-30.0		\sim		- Um			
-40.0							
-50.0		well when the			Lasker out and Margan		
-60.0 -60.0	htten and the second of the se					ᢣᢛᡃᡊ᠋ᡰᠬᢦᡌᠺᡘᢦ ^{ᡛᡀ} ᠋᠋᠋ᢪᢦᡊᠸᢧᡪᡁᡌᡍᢛ	Hat mar stranger
-70.0							
Center 2.402000 GHz #Res BW 100 kHz			#Video BW 30	0 kHz			oan 8.000 MHz ms (1001 pts)
	Aug 09, 2024 5:36:57 AM						
	5:36:57 AM						
		Band Edge N	IVNT BLE 2402	2MHz Ant1 Emi	ission		
Spectrum Analyzer 1 Swept SA	• +						
KEYSIGHT Input: RF R T →→ Align: Auto Align: Auto	Input Ζ: 50 Ω Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Pc Avg Hold: 300/30 Trig: Free Run			
R T ↔ Coupling: DC Align: Auto	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low	Avg Hold: 300/30 Trig: Free Run	⁰ ₩₩₩₩₩	Mkr1 2.	
R T ↔ Coupling: DC Align: Auto 1 Spectrum ▼	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run	⁰ ₩₩₩₩₩	Mkr1 2.	402 2 GHz 0.10 dBm + 1
R T ↔ Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB Log 10.0	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run	⁰ ₩₩₩₩₩	Mkr1 2.	
R T ↔ Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB Log 10.0 0.00 -10.0 -20.0	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run	⁰ ₩₩₩₩₩	Mkr1 2.	
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ 10.0 ■ 10.0 ■	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run	0 M W W W W W W P N N N N N N		0.10 dBm
R T →→ Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ ■ 10.0 ■ ■ -0.0 ■ ■ -30.0 ■ ■ -50.0 ■ ■	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run	⁰ ₩₩₩₩₩	Mkr1 2.	0.10 dBm
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ ■ 10.0 ■ ■ -0.0 ■ ■ -20.0 ■ ■ -30.0 ■ ■	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run	0 M W W W W W W P N N N N N N		0.10 dBm
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ -0.0 ■ -10.0 ■ -20.0 ■ -30.0 ■ -40.0 ■ -50.0 ■ -60.0 ■ -70.0 ■ Start 2.30600 GHz	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref Lvl Offset 3	Avg Hold: 300/30 Trig: Free Run .06 dB dBm	0 M W W W W W W P N N N N N N	3Stop	0.10 dBm
R T →→ Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ -0.0 ■ -20.0 ■ -30.0 ■ -40.0 ■ -50.0 ■ -70.0 ■	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00	Avg Hold: 300/30 Trig: Free Run .06 dB dBm	0 M W W W W W W P N N N N N N	3Stop	0.10 dBm
R T →→ Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ -0.0 ■ -20.0 ■ -30.0 ■ -40.0 ■ -50.0 ■ -60.0 ■ -70.0 ■ Start 2.30600 GHz #Res BW 100 kHz	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00	Avg Hold: 300/30 Trig: Free Run .06 dB dBm	0 M W W W W W W P N N N N N N	3Stop	0.10 dBm
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ -0.0 ■ </td <td>Corr CCorr Freq Ref: Int (S)</td> <td>#Atten: 30 dB</td> <td>Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4</td> <td>Avg Hold: 300/30 Trig: Free Run</td> <td>0 <u>M₩₩₩₩₩₩</u> P N N N N N N </td> <td>3 Sto #Sweep 50.0</td> <td>0.10 dBm</td>	Corr CCorr Freq Ref: Int (S)	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Avg Hold: 300/30 Trig: Free Run	0 <u>M₩₩₩₩₩₩</u> P N N N N N N 	3 Sto #Sweep 50.0	0.10 dBm
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ 0.00 ■ 10.0 ■ 0.00 ■ 10.0 ■ 0.00 ■ 10.0 ■ 20.0 ■ 30.0 ■ 40.0 ■ 50.0 ■ 60.0 ■ 70.0 ■ Start 2.30600 GHz #Res BW 100 kHz 5 Marker Table V Mode Trace 2 N 1 f 3 N	Corr CCorr Freq Ref: Int (S)	02 2 GHz 00 0 GHz 90 0 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 0.1005 dBm -57.22 dBm -58.54 dBm	Avg Hold: 300/30 Trig: Free Run	0 <u>M₩₩₩₩₩₩</u> P N N N N N N 	3 Sto #Sweep 50.0	DL1-11 85 dBm DL1-11 85 dBm D 2.40600 GHz ms (1001 pts)
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ -0.0 ■ </td <td>Corr CCorr Freq Ref: Int (S)</td> <td>02 2 GHz 00 0 GHz</td> <td>Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 #Video BW 30</td> <td>Avg Hold: 300/30 Trig: Free Run</td> <td>0 <u>M₩₩₩₩₩₩</u> P N N N N N N </td> <td>3 Sto #Sweep 50.0</td> <td>0.10 dBm</td>	Corr CCorr Freq Ref: Int (S)	02 2 GHz 00 0 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 #Video BW 30	Avg Hold: 300/30 Trig: Free Run	0 <u>M₩₩₩₩₩₩</u> P N N N N N N 	3 Sto #Sweep 50.0	0.10 dBm
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ -00 ■ -10.0 ■ -20.0 ■ -30.0 ■ -60.0 ■ -60.0 ■ -60.0 ■ -70.0 ■ Start 2.30600 GHz #Res BW 100 kHz 5 Marker Table V Mode 1 1 5 ■ 1 1 5 ■ 1 1 5 ■ 1 1 5 ■	Corr CCorr Freq Ref: Int (S)	02 2 GHz 00 0 GHz 90 0 GHz 73 8 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 0.1005 dBm -57.22 dBm -58.54 dBm	Avg Hold: 300/30 Trig: Free Run	0 <u>M₩₩₩₩₩₩</u> P N N N N N N 	Stop #Sweep 50.0	0.10 dBm
R T → Coupling: DC Align: Auto 1 Spectrum ▼ Scale/Div 10 dB ■ Log ■ 10.0 ■ 0.00 ■ -0.0 ■ </td <td>Corr CCorr Freq Ref: Int (S)</td> <td>02 2 GHz 00 0 GHz 90 0 GHz 73 8 GHz</td> <td>Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 0.1005 dBm -57.22 dBm -58.54 dBm -55.88 dBm</td> <td>Avg Hold: 300/30 Trig: Free Run</td> <td>0 M W W W W W W P N N N N N N N N N N N N N</td> <td>3 Sto #Sweep 50.0</td> <td>0.10 dBm</td>	Corr CCorr Freq Ref: Int (S)	02 2 GHz 00 0 GHz 90 0 GHz 73 8 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 0.1005 dBm -57.22 dBm -58.54 dBm -55.88 dBm	Avg Hold: 300/30 Trig: Free Run	0 M W W W W W W P N N N N N N N N N N N N N	3 Sto #Sweep 50.0	0.10 dBm







Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-49.29	-20	Pass
NVNT	BLE	2442	Ant1	-48.98	-20	Pass
NVNT	BLE	2480	Ant1	-47.1	-20	Pass



			Test Graph			
-		Tx. Spuriou	us NVNT BLE 2	402MHz Ant1 F	Ref	
Spectrum Analyzer 1 Swept SA	• +					
KEYSIGHT Input: RF R T +++ Coupling Align: Au	: DC Corr CCorr		PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: Log-Pov Avg Hold: 300/300 Trig: Free Run		
-	T		Ref Lvl Offset 3.			Mkr1 2.402 244 5 GHz
Scale/Div 10 dB Log			Ref Level 20.00	dBm		0.09 dBm
10.0					<u></u> 1	
0.00						
-10.0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
-20.0						
-30.0						
-40.0						
-50.0						
-60.0						
-70.0						
Center 2.4020000 GHz			#Video BW 300) kHz		Span 1.500 MHz
#Res BW 100 kHz	Aug 09, 20	124				Sweep 1.00 ms (1001 pts
	5:37:21 A					
		Tx. Spurious I	NVNT BLE 240	2MHz Ant1 Emi	ission	
Spectrum Analyzer 1 Swept SA	• +	Tx. Spurious I	NVNT BLE 240	2MHz Ant1 Emi	ission	
Spectrum Analyzer 1 Swept SA KEYSIGHT Input: RF Coupling Align: Au	F Input Z: 50 C g: DC Corr CCorr	2 #Atten: 30 dB	NVNT BLE 240 PNO: Fast Gate: Off IF Gain: Low Sig Track: Off	2MHz Ant1 Emi Avg Type: Log-Pov Avg Hold: 10/10 Trig: Free Run		
KEYSIGHT Input: RF R T → Coupling Align: Au 1 Spectrum Scale/Div 10 dB	F Input Z: 50 C g: DC Corr CCorr	2 #Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low	Avg Type: Log-Pov Avg]Hold: 10/10 Trig: Free Run 06 dB	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz
Swept SA KEYSIGHT Input: RF Coupling Align: Au VV 1 Spectrum Scale/Div 10 dB Log 10.0	F Input Z: 50 Ω): DC Corr CCorr uto Freq Ref: Int	2 #Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3.	Avg Type: Log-Pov Avg]Hold: 10/10 Trig: Free Run 06 dB	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz
Swept SA KEYSIGHT Input: RF R T Scale/Div 10 dB Log 1.0.0 	F Input Z: 50 Ω): DC Corr CCorr uto Freq Ref: Int	2 #Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3.	Avg Type: Log-Pov Avg]Hold: 10/10 Trig: Free Run 06 dB	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz
Swept SA KEYSIGHT Input: RR R T Align: Au DV 1 Spectrum Scale/Div 10 dB Log 10.0 -0.0	F Input Z: 50 Ω): DC Corr CCorr uto Freq Ref: Int	2 #Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3.	Avg Type: Log-Pov Avg]Hold: 10/10 Trig: Free Run 06 dB	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz -1.66 dBm
Swept SA KEYSIGHT Input: RF R T → I Spectrum Scale/Div 10 dB Log 10.0 10.0 1 -0.0 1 -0.0 1 -0.0 -0 -0.0 -0 -0.0 -0 -0.0 -0 -0.0 -0	F Input Z: 50 Ω): DC Corr CCorr uto Freq Ref: Int	2 #Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00	Avg Type: Log-Pov Avg]Hold: 10/10 Trig: Free Run 06 dB	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz -1.66 dBm
Swept SA KEYSIGHT Input: RF R T → I Spectrum Scale/Div 10 dB Log 10.0 10.0 1 0.00 1 0.00 1 -10.0 -1 -20.0 -40.0	F Input Z: 50 C g DC Corr CCorr Ito Freq Ref: Int	0 #Atten: 30 dB (S)	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00	Avg Type: Log-Pov Avg]Hold: 10/10 Trig: Free Run 06 dB	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz -1.66 dBm
Swept SA KEYSIGHT Input: RF R T →→ Gouping 1 Spectrum Scale/Div 10 dB Imput: RF Log 10.0 1 10.0 ↓ 1 0.00 ↓ 1 -0.0 ↓ 1 -0.0 ↓ 1 -0.0 ↓ 1 -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓ ↓ -0.0 ↓	F Input Z: 50 C g DC Corr CCorr Ito Freq Ref: Int	0 #Atten: 30 dB (S)	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00	Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz -1.66 dBm DL1-19.91 dBm 5 5 5 Stop 25.00 GHz
Swept SA KEYSIGHT Input: RF R T → Gouping 1 Spectrum Scale/Div 10 dB Jona 10.0 0 1 Jona 10.0 1 Jona Jona 20.0 1 Jona Jona 30.0 - Jona Jona -60.0 - Jona Jona -70.0 - Jona Jona Start 30 MHz #Res BW 100 kHz Horder Scale Jona	F Input Z: 50 C g DC Corr CCorr Ito Freq Ref: Int	0 #Atten: 30 dB (S)	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00	Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz -1.66 dBm DL1-19.91 dBm 5 5 5 Stop 25.00 GHz
Swept SA KEYSIGHT Input: RR R T A Scale/Div 10 dB Log 10.0 20.0 30.0 40.0 -50.0 -50.0 Start 30 MHz #Res BW 100 kHz 5 Marker Table Mode Trace	F Input Z: 50 C p DC Corr CCorr Freq Ref: Int 2 2 2	x #Atten: 30 dB (S) #Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 W	Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm	wer 123456 M ₩ ₩ ₩ ₩ ₩	Mkr1 2.402 GHz -1.66 dBm DL1-19.91 dBm 5 5 5 Stop 25.00 GHz
Swept SA KEYSIGHT Input: RF R T For any set of the s	F Input Z: 50 C p DC Corr CCorr freq Ref: Int 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5	2. #Atten: 30 dB (S) #Atten: 30 dB 3. ↓ 4. ↓	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 #Video BW 300 #Video BW 300	Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm	wer 123456 M W W W W W P N N N N N	Mkr1 2.402 GHz -1.66 dBm DL1-1991 dBm \$5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Swept SA KEYSIGHT Input: Rf R T ← Coupling I Spectrum Scale/Div 10 dB	F Input Z: 50 C pDC Corr CCorr tro Freq Ref: Int Scale C	 a #Atten: 30 dB (S) <l< td=""><td>PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 #Video BW 300 #Video BW 300</td><td>Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm</td><td>wer 123456 M W W W W W P N N N N N</td><td>Mkr1 2.402 GHz -1.66 dBm DL1 -1991 dBm \$5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5</td></l<>	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 #Video BW 300 #Video BW 300	Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm	wer 123456 M W W W W W P N N N N N	Mkr1 2.402 GHz -1.66 dBm DL1 -1991 dBm \$5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Swept SA KEYSIGHT Input: Rf R T →→ Coupling 1 Spectrum Scale/Div 10 dB Imput: Rf LOG	F Input Z: 50 C Orr CCorr Ito Freq Ref: Int Scale 2 f f f f f	 #Atten: 30 dB (S) #Atten: 30 dB (S) 3 4 4	PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 3. Ref Level 20.00 #Video BW 300 #Video BW 300 Y -1.663 dBm -52.58 dBm -54.32 dBm -53.65 dBm	Avg Type: Log-Pox Avg Hold: 10/10 Trig: Free Run 06 dB dBm	wer 123456 M W W W W W P N N N N N	Mkr1 2.402 GHz -1.66 dBm DL1 -1991 dBm \$5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5







