

# **Test Data**

# **Maximum Conducted Output Power**

Condition	Mode	Frequency	Antenna	Conducted Power	Duty Factor	Total Power	Limit	Verdict
		(MHz)		(dBm)	(dB)	(dBm)	(dBm)	
NVNT	BLE	2402	Ant1	-0.117	0	-0.117	30	Pass
NVNT	BLE	2442	Ant1	-1.824	0	-1.824	30	Pass
NVNT	BLE	2480	Ant1	-2.373	0	-2.373	30	Pass

## Power NVNT BLE 2402MHz Ant1

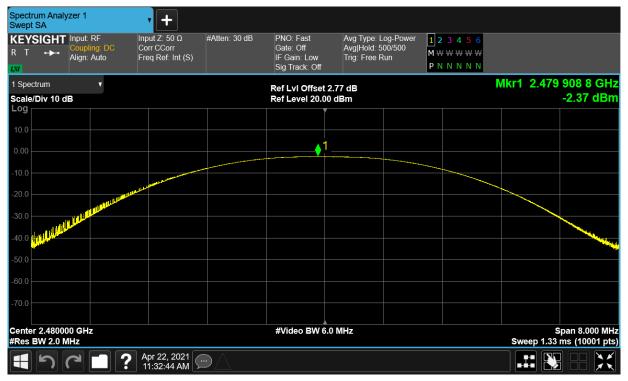




#### Power NVNT BLE 2442MHz Ant1



### Power NVNT BLE 2480MHz Ant1





# -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE	2402	Ant1	0.664	0.5	Pass
NVNT	BLE	2442	Ant1	0.661	0.5	Pass
NVNT	BLE	2480	Ant1	0.662	0.5	Pass

## -6dB Bandwidth NVNT BLE 2402MHz Ant1

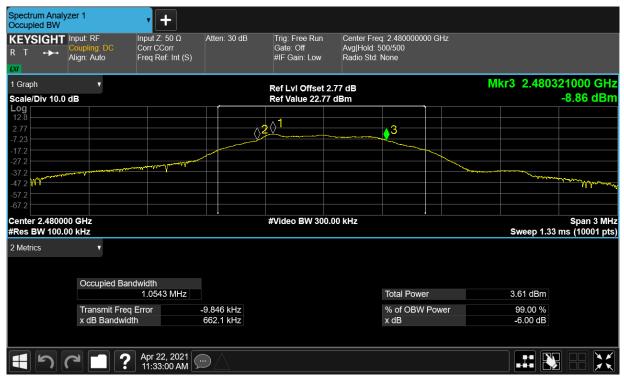




#### -6dB Bandwidth NVNT BLE 2442MHz Ant1



# -6dB Bandwidth NVNT BLE 2480MHz Ant1



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# **Occupied Channel Bandwidth**

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	1.028537302
NVNT	BLE	2442	Ant1	1.034042486
NVNT	BLE	2480	Ant1	1.032305075

#### OBW NVNT BLE 2402MHz Ant1

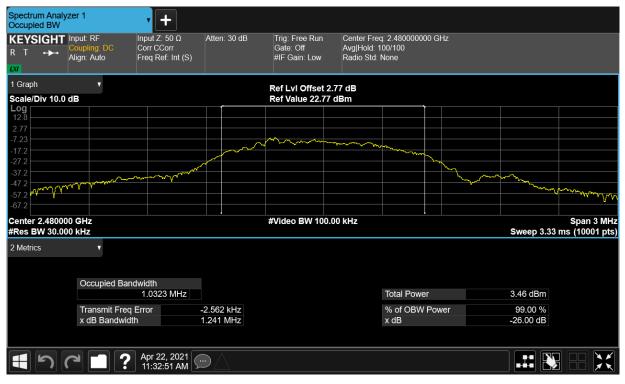




#### OBW NVNT BLE 2442MHz Ant1



# OBW NVNT BLE 2480MHz Ant1





# **Maximum Power Spectral Density Level**

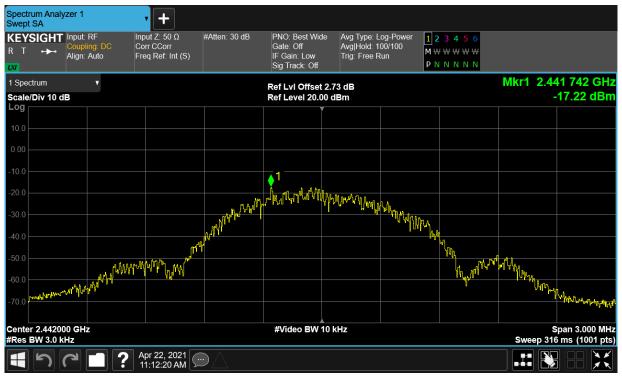
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-17.823	8	Pass
NVNT	BLE	2442	Ant1	-17.222	8	Pass
NVNT	BLE	2480	Ant1	-17.639	8	Pass

#### PSD NVNT BLE 2402MHz Ant1

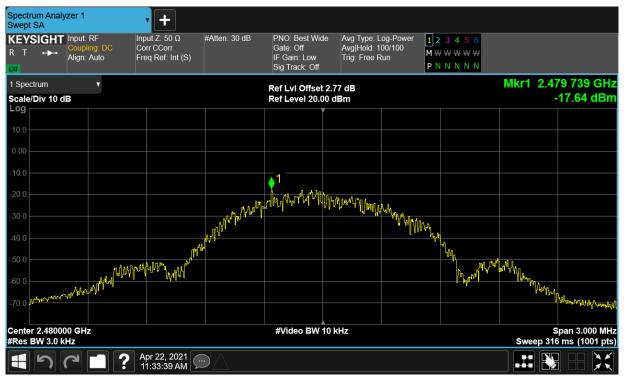




#### PSD NVNT BLE 2442MHz Ant1



## PSD NVNT BLE 2480MHz Ant1



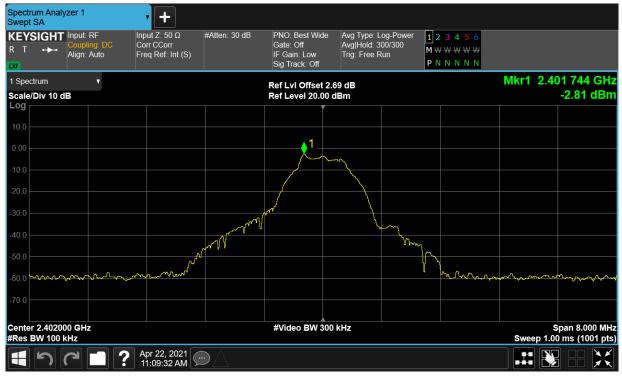
JianYan Testing Group Shenzhen Co., Ltd. No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366



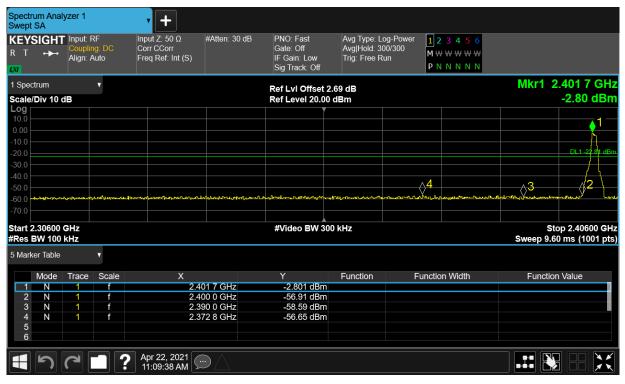
# **Band Edge**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-53.83	-20	Pass
NVNT	BLE	2480	Ant1	-53.46	-20	Pass





# Band Edge NVNT BLE 2402MHz Ant1 Emission



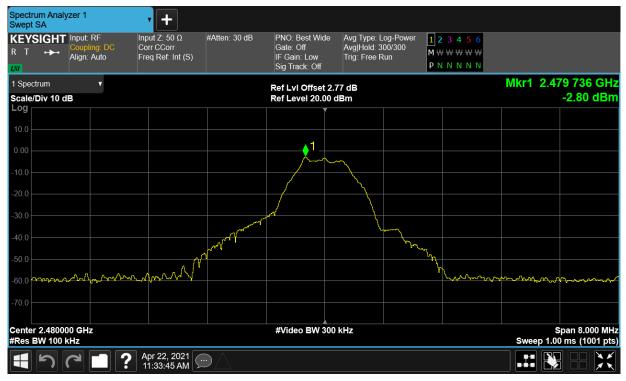
JianYan Testing Group Shenzhen Co., Ltd.

Project No.: JYTSZE2104081

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#### Band Edge NVNT BLE 2480MHz Ant1 Ref



# Band Edge NVNT BLE 2480MHz Ant1 Emission

Spectrum Anal Swept SA KEYSIGHT R T +>+	Input: I	ng: DC	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: L Avg Hold: 3 Trig: Free R	00/300	1 2 3 4 5 6 M₩₩₩₩₩₩ P N N N N N		
1 Spectrum Scale/Div 10 c	B	T			Ref LvI Offset Ref Level 20.0				Mkr1 2	.479 7 GHz -2.62 dBm
Log 10.0 -10.0 -20.0 -30.0 -20.0 -30.0 -40.0 -50.0 -50.0 -70.0 Start 2.47600 /	GHz	Perfect and the Perf		And the part of the control of the c	#Video BW 3	00 kHz	had a circle a circle	4014 m/200 6-11/20 12/2	star anti-fundational	DL1-22.80 dBr
#Res BW 100 5 Marker Table	kHz	v							Sweep 9.6	0 ms (1001 pt:
Mode	Trace	Scale	Х		Y	Function	Fu	nction Width	Functior	n Value
1 N	1	f		79 7 GHz	-2.624 dBm					
2 N	1	f		83 5 GHz	-58.25 dBn					
3 N	1	f		00 0 GHz	-58.92 dBn					
4 N 5 6	1	f	2.4	97 7 GHz	-56.26 dBn					
<b>ר ד</b>	2		Apr 22, 2021 11:33:51 AM							



# **Conducted RF Spurious Emission**

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-47.57	-20	Pass
NVNT	BLE	2442	Ant1	-47.41	-20	Pass
NVNT	BLE	2480	Ant1	-47.09	-20	Pass

# Tx. Spurious NVNT BLE 2402MHz Ant1 Ref





#### Tx. Spurious NVNT BLE 2402MHz Ant1 Emission



# Tx. Spurious NVNT BLE 2442MHz Ant1 Ref



Project No.: JYTSZE2104081



#### Tx. Spurious NVNT BLE 2442MHz Ant1 Emission



# Tx. Spurious NVNT BLE 2480MHz Ant1 Ref





YSIGHT ⊺ • <b>→</b> •	Input: F Couplir Align: A	ng: DC	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 Avg Hold: 10/1 Trig: Free Run	10	1 2 3 4 5 6 M \vee \vee \vee \vee \vee \vee V P N N N N N		
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.0 .0 rt 30 MHz					#Video BW 30	00 kHz				Stop 25.00 G
es BW 100 larker Table	kHz	v							Sweep ~2.	49 s (1001 j
Mode	Trace	Scale	Х		Y	Function	Fu	nction Width	Functior	ı Value
1 N	1	f		2.477 GHz	-2.680 dBm					
2 N	1	f f		4.975 GHz	-49.72 dBm					
3 N 4 N	1	f		4.924 GHz 7.471 GHz	-51.83 dBm -55.02 dBm					
4 N 5 N 6	1	f		0.093 GHz	-54.25 dBm					

# Tx. Spurious NVNT BLE 2480MHz Ant1 Emission