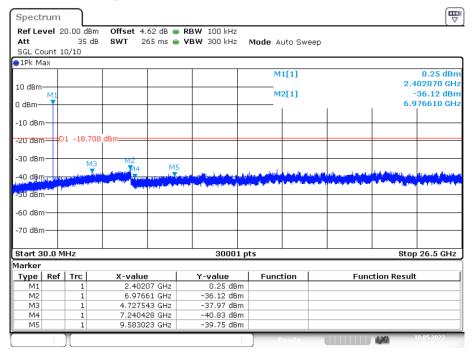


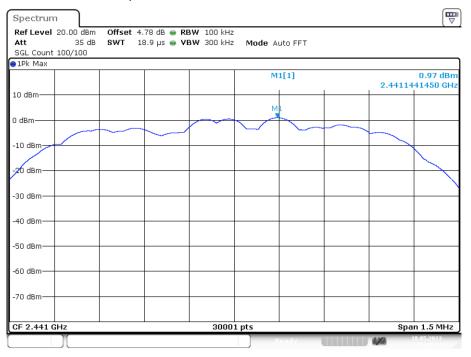
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref

Date: 18.MAY.2023 15:47:02



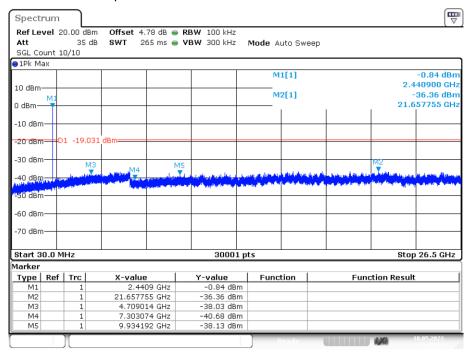
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission

Date: 18.MAY.2023 15:47:16



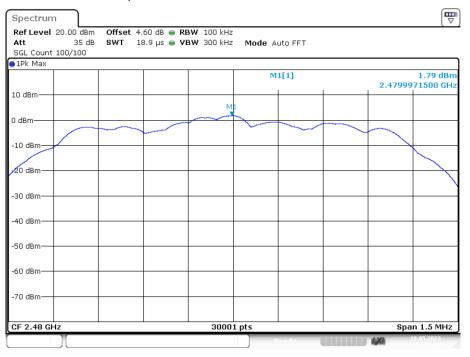
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref

Date: 18.MAY.2023 15:49:01



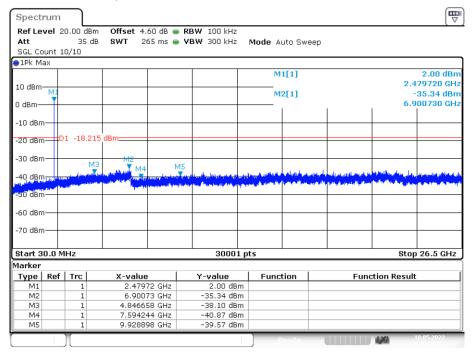
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission

Date: 18.MAY.2023 15:49:15



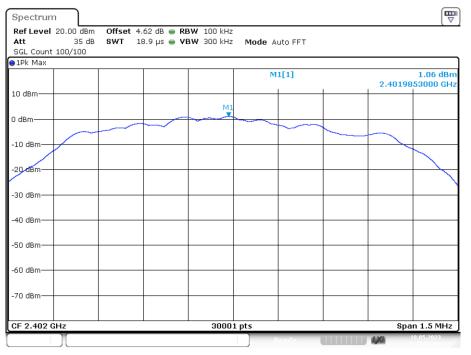
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref

Date: 18.MAY.2023 15:51:09



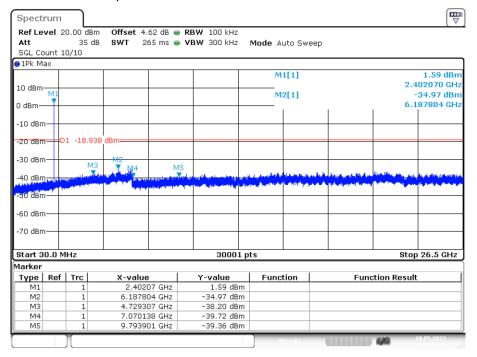
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission

Date: 18.MAY.2023 15:51:22



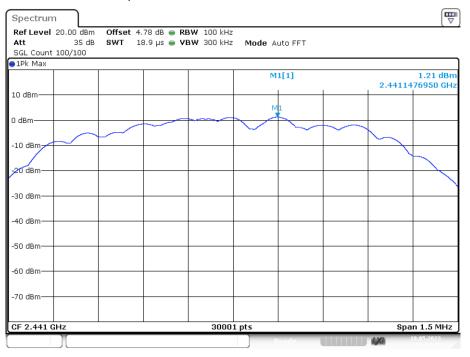
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Ref

Date: 18.MAY.2023 15:53:10



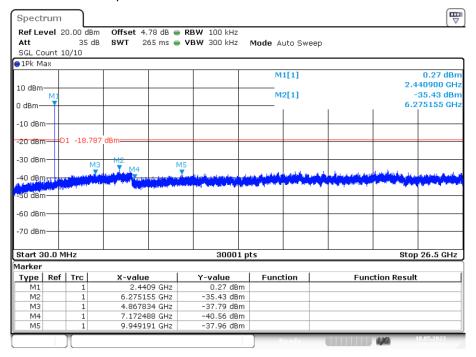
Tx. Spurious NVNT 3-DH1 2402MHz Ant1 Emission

Date: 18.MAY.2023 15:53:23



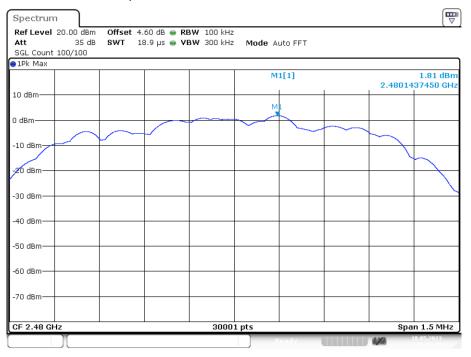
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Ref

Date: 18.MAY.2023 15:54:45



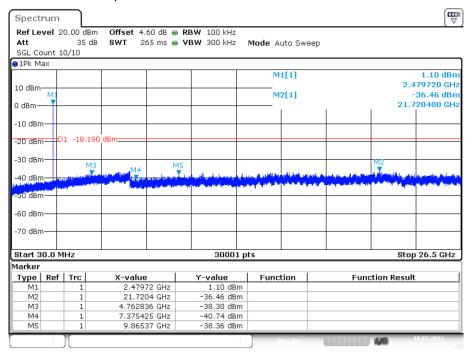
Tx. Spurious NVNT 3-DH1 2441MHz Ant1 Emission

Date: 18.MAY.2023 15:54:59



Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Ref

Date: 18.MAY.2023 15:57:25

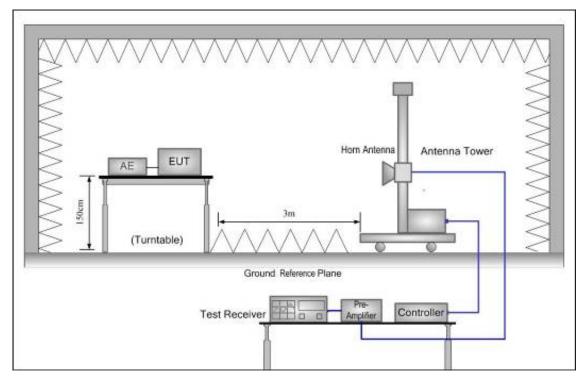


Tx. Spurious NVNT 3-DH1 2480MHz Ant1 Emission

Date: 18.MAY.2023 15:57:38

9. BAND EDGE COMPLIANCE

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

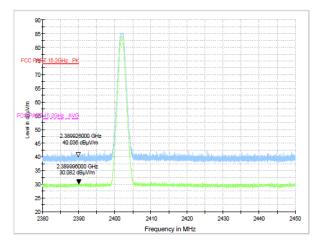
All restriction band and non- restriction band have been tested , only worse case is reported.

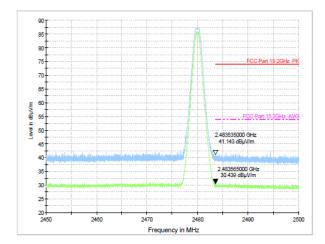
9.4. Test Result

PASS. (See below detailed test data)

Test Mode: GFSK-Low Hopping-off

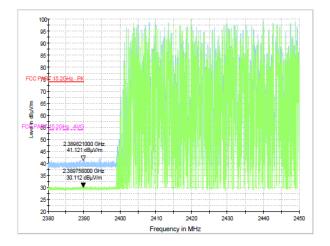
Test Mode: GFSK-High Hopping-off

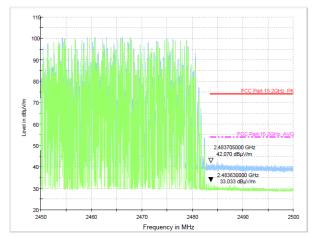




Test Mode: GFSK-Low Hopping-on

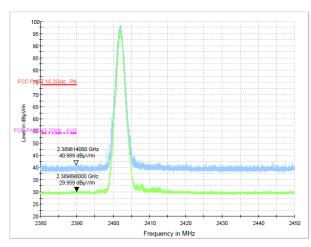
Test Mode: GFSK-High Hopping-on

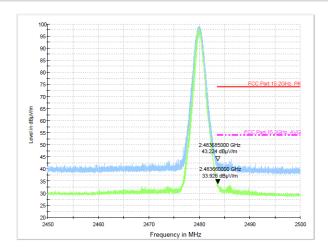




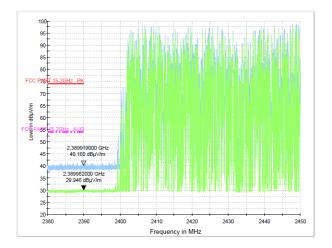


Test Mode: π/4 DQPSK-High Hopping-off

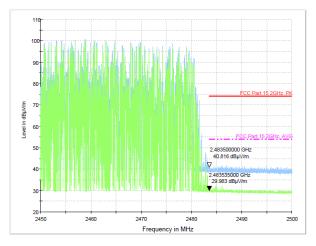




Test Mode: $\pi/4$ DQPSK-Low Hopping-on

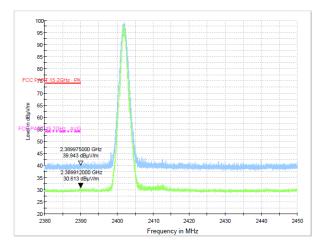


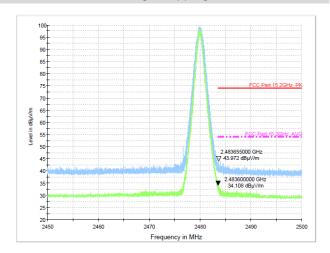
Test Mode: π/4 DQPSK-High Hopping-on



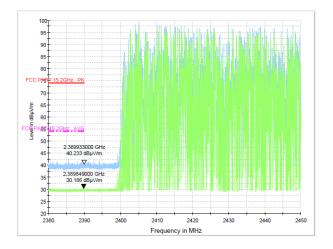
Test Mode: 8DPSK-Low Hopping-off

Test Mode: 8DPSK-High Hopping-off

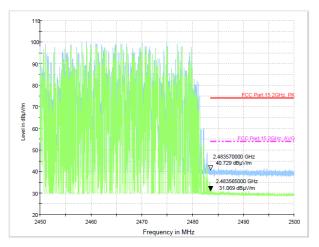




Test Mode: 8DPSK-Low Hopping-on

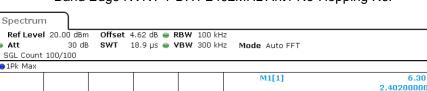


Test Mode: 8DPSK-High Hopping-on



-

Conducted Method



Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref

 IPk Max
 M1[1]
 6.30 dBm

 0 dBm
 2.40200000 GHz

 0 dBm
 0

 -10 dBm
 0

 -20 dBm
 0

 -30 dBm
 0

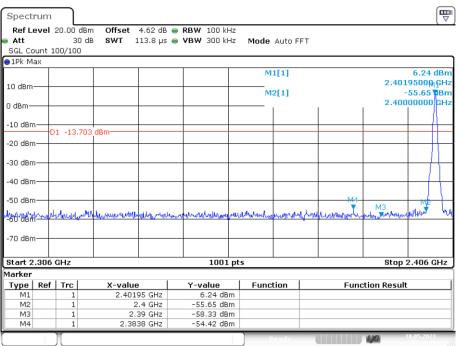
 -50 dBm
 0

 -70 dBm
 0

 -70 dBm
 0

 -70 dBm
 0

Date: 18.MAY.2023 15:39:43



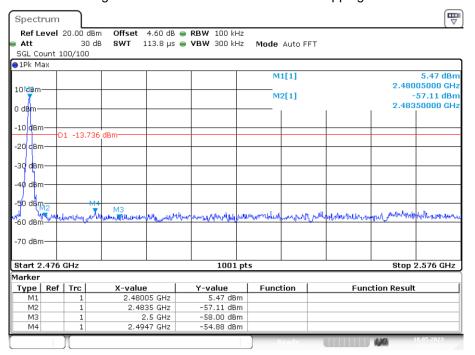
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission

Date: 18.MAY.2023 15:39:49



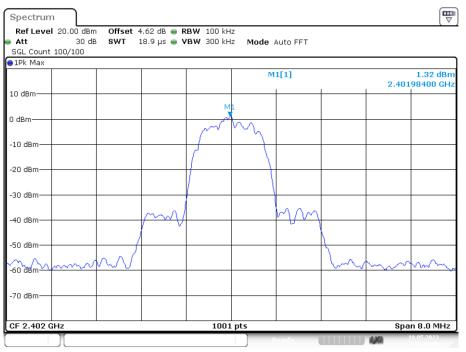
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref

Date: 18.MAY.2023 15:43:16



Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission

Date: 18.MAY.2023 15:43:22



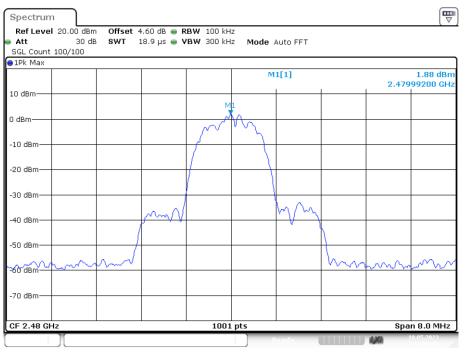
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref

Date: 18.MAY.2023 15:46:45

Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission

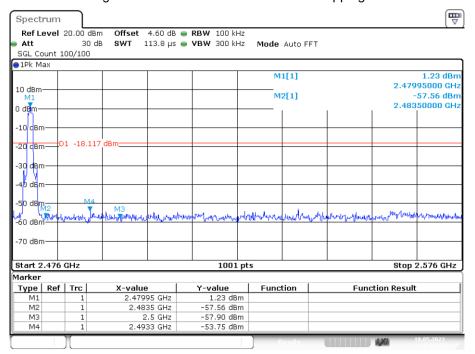
Spectr	um											[₩
Ref Le Att SGL Co		20.00 dE 30 .00/100			 RBW 100 k VBW 300 k 		Auto F	FT				
🖯 1Pk Ma	iX.											
10 dBm-							1[1]				1.14 (195000 -58.064	GHz
							12[1]				000000	
0 dBm—							1	1			1	1
-10 dBm	+										+	+
-20 dBm	₽	1 -18.67	78 dBm=									-
-30 dBm	+											
-40 dBm	+											1
-50\d8m										мз, "	M2	+
-60 dBM		hallinen Lab	and the second	hum white	mitriumitions	Uler Welder March	ayoriana	Manus and a straight a	hanna an the	the particular	Murper h	
-70 dBm	+											
Start 2	306	GHz			1001	. pts				Stop	2.406 0	Hz
Marker												
Туре	Ref	Trc	X-value	,	Y-value	Fund	tion		Fund	tion Resul	t	
M1		1		95 GHz	1.14 dB							
M2		1		.4 GHz	-58.06 dB							
M3 M4		1		39 GHz 02 GHz	-59.53 dB -54.99 dB							
		1					Ready			1)0	18.05.2023	

Date: 18.MAY.2023 15:46:51



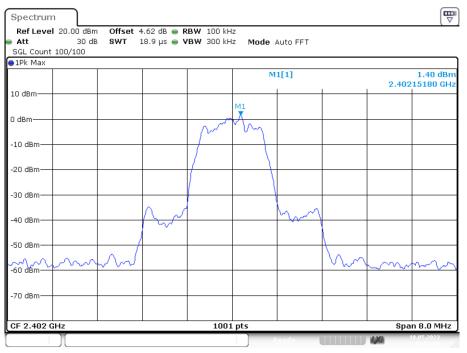
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref

Date: 18.MAY.2023 15:50:51



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

Date: 18.MAY.2023 15:50:56



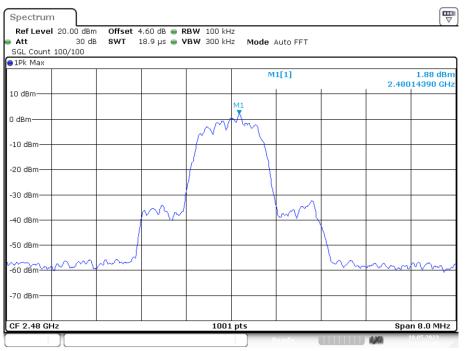
Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Ref

Date: 18.MAY.2023 15:52:51

Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission

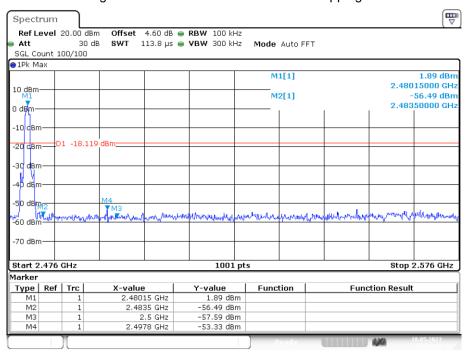
Specti	rum											₽
Ref Le Att SGL Co		20.00 dł 30 00/100			● RB₩ 100 k ● VB₩ 300 k		Auto F	FT				
⊖1Pk Ma	эх											
10 dBm-	_						12[1]				1.55 195000 -55.5 0	GHz /dBm
0 dBm—										2.40	00000	GHz
-10 dBm												1
-20 dBm		1 -18.59	96 dBm=						_			
-30 dBm	-											t
-40 dBm											+ /	
-50 dBm	hounder	purrhant	malentenere	medalmher	und warman	sumadusta	Maduan	www.what	1. relimped	M3 hun Muliuw	Whith W	4
-70 dBm	-								_			
Start 2	.306	GHz			1001	pts	1			Stop	2.406	GHz
Marker						•						
Туре	Ref	Trc	X-value	e	Y-value	Fund	tion		Func	tion Resul	t	
M1		1		95 GHz	1.55 dB							
M2		1		2.4 GHz	-55.56 dB							
M3 M4		1		39 GHz 11 GHz	-58.18 dB -54.41 dB							
							Ready	0.000		1)(1	18.05.202	3

Date: 18.MAY.2023 15:52:57



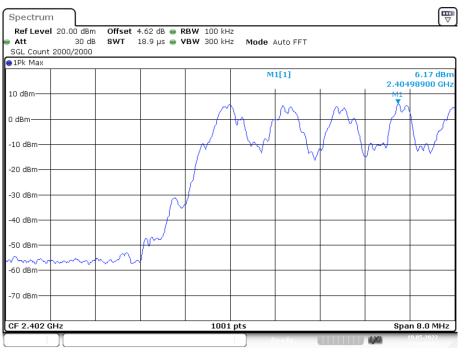
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Ref

Date: 18.MAY.2023 15:57:05



Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission

Date: 18.MAY.2023 15:57:10



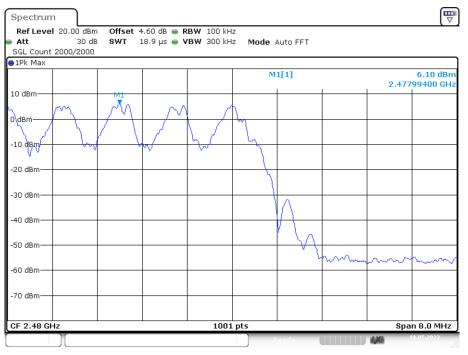
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

Date: 19.MAY.2023 04:47:34

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

Spectrum Ref Level	20.00 dB			RBW 100 kHz					
Att SGL Count	30 c		13.8 µs 🧉	VBW 300 kHz	Mode /	Auto FF	Т		
SGL Count	1000/1000	J							
JIPK Max					M1	[1]			5.56 dBn
					in 1	[1]		2	.40505000 GH
10 dBm					M2	[1]		2	-56.55 dBr
								2	.40000000
									1
-10 dBm									
	D1 -13.83	5 dBm							(*)
-20 dBm —				+					
-30 dBm									
-40 dBm									
-40 UBIII									
-50 dBm	M4	+							M2
interior metal	www.w.	Hand Have How a Mary mary	When margality	and mound when	many	burner.	hunder	M3 աներան Ծու	when mine
-60 dBm			ΨV		-				
-70 dBm									
Start 2.306	GHz			1001 pt:	s			S	top 2.406 GHz
1arker									
Type Ref		X-value		Y-value	Functi	ion		Function Re	esult
M1	1	2.4050		5.56 dBm					
M2	1		4 GHz	-56.55 dBm -56.95 dBm					
M3 M4	1		9 GHz 1 GHz	-56.95 dBm -54.14 dBm					
	20)	_	///////////////////////////////////////	130	10.05.2022

Date: 19.MAY.2023 04:48:03



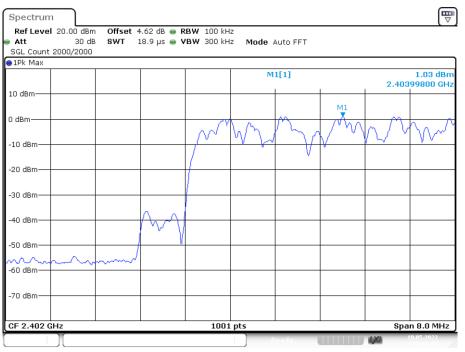
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref

Date: 19.MAY.2023 05:05:00

Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission

Spectrum										
Ref Level Att SGL Count 1	30 c	B SWT 11	_	RBW 100 k VBW 300 k		Auto FF	τ			
1Pk Max	,	-								
10 dBm-						1[1]				5.70 dBn 15000 GH: 55.75 dBn
					M	2[1]				-55.75 aBh 150000 GH:
-10 dBm										
-20 cBm-	1 -13.89	9 dBm								
-30 dBm										
-40 dBm										
50 dBm12	winder	14 M3	an the states	received	permitteture	huntresse		Hunner .	Murtin .	lanhara lakala
60 dBm										
-70 dBm										
Start 2.476	GHz	1		1001	pts				Stop	2.576 GHz
1arker										
Type Ref	Trc	X-value		Y-value	Func	tion		Funct	ion Result	:
M1	1	2.47715		5.70 dB						
M2	1	2.4835		-55.75 dB						
M3 M4	1	2.5	GHz GHz	-54.99 dB -53.76 dB						
	1					teady			100	19.05.2023

Date: 19.MAY.2023 05:05:28



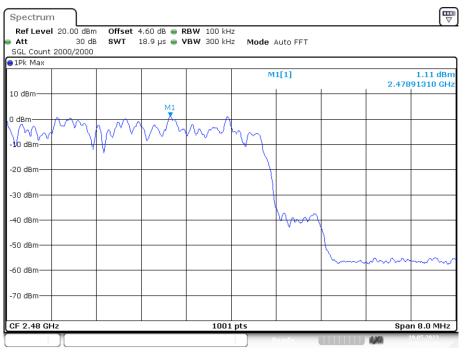
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref

Date: 19.MAY.2023 05:12:54

Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission

Spectrum									
Ref Level	20.00 dB	m Offset 4.6	2 dB 😑	RBW 100 kH	z				
Att	30 d	B SWT 113.	8 µs 👄	VBW 300 kH	z Mode	Auto F	FT		
SGL Count :	1000/100	D							
∎1Pk Max									
					M	1[1]			1.49 dBn
10 dBm								2.40	495000 GH
					M	2[1]			-57.32 dBm
								2.40	1000000 GH
									Jok
-10 dBm-+		+							- 1° 0
-20 dBm	01 -18.97	4 dBm							+ + +
-30 dBm									
40 40-									
-40 dBm									1
-50 dBm			M4						
		witte	Tana		والمراجع والمراجع		des babbles des		M2
-60 dBm	warment by	count do to diversity man	VYMM	and the second stands	and refer that the fact wat	harmon	Marcal and have been	- and a second	
-70 dBm —									
Start 2.306	GHz	1		1001	pts			Stop	2.406 GHz
/larker									
Type Ref	Trc	X-value		Y-value	Fund	tion	Fu	nction Resu	lt
M1	1	2.40495 (GHz	1.49 dBn	1				
M2	1	2.4 (-57.32 dBn					
MЗ	1	2.39 (-55.57 dBn					
M4	1	2.3416 (GHz	-53.95 dBn	1				
						Ready		420	19.05.2023

Date: 19.MAY.2023 05:13:28



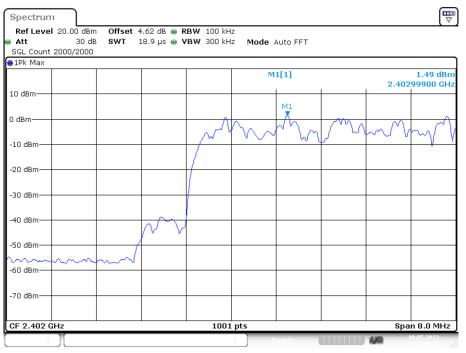
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref

Date: 19.MAY.2023 05:25:37

₿ Spectrum Ref Level 20.00 dBm Offset 4.60 dB 👄 RBW 100 kHz Att 30 dB SWT 113.8 µs 😑 VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 ⊖1Pk Max M1[1] 1.97 dBn 2.47895000 GHz 10 dBm M2[1] -57.52 dBn 2.48350000 GHz P,dBm -10 dBm D1 -18.895 -20 dBmdBn -30 d<mark></mark>Bm -40 d<mark>i</mark>m -50 dEm-M4 M3 down how a shares remonal where where where manuture all she w. manufacture 'n -60 dBm--70 dBm· Start 2.476 GHz 1001 pts Stop 2.576 GHz Marker Type | Ref | Trc | Function Result X-value Y-value Function 1.97 dBm -57.52 dBm 2.47895 GHz Μ1 1 M2 2.4835 GHz 1 MЗ 2.5 GHz -56.18 dBm 1 2.4986 GHz M4 -53.68 dBm 1 100

Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission

Date: 19.MAY.2023 05:26:05



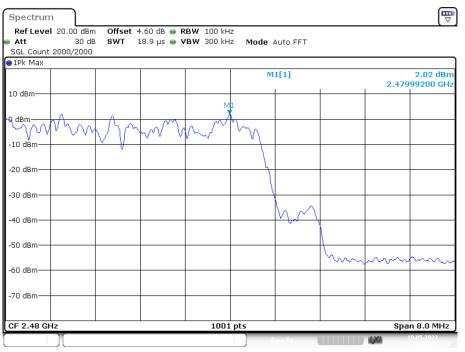
Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Ref

Date: 19.MAY.2023 05:41:53

Band Edge(Hopping) NVNT 3-DH1 2402MHz Ant1 Hopping Emission

Spectrum								Ē
Ref Level	20.00 dB	m Offset 4.62 d	8 画 RBW 100 kHz	:				
Att	30 d	dв SWT 113.8 μ	s 👄 VBW 300 kHz	Mode 4	uto FFT			
SGL Count :	1000/100	0						
∋1Pk Max								
				M1	[1]			1.50 dBn
10 dBm							2.40	505000 GH
				M2	[1]			-56.90 dBm
							2.40	000000,GH
								I M
-10 dBm								
-20 dBm—	01 -18.51	.2 dBm				_		
-30 dBm —								
10.10								1 (
-40 dBm								
-50 dBm			M	4				
		Mannen man press					M3	M2
-60 dBm-+	and the contraction of the second		and the second	and account links	www.up	manumun	Served De province	-Contraction (1997)
-70 dBm								
Start 2.306	GHz		1001 p	ts			Stop	2.406 GHz
Marker								
Type Ref	Trc	X-value	Y-value	Functi	on	Fun	ction Resu	lt
M1	1	2.40505 GHz	1.50 dBm					
M2	1	2.4 GHz						
MЗ	1	2.39 GHz						
M4	1	2.3575 GHz	-53.45 dBm					
				Re	adv		120	19.05.2023

Date: 19.MAY.2023 05:42:22



Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Ref

Date: 19.MAY.2023 05:52:56

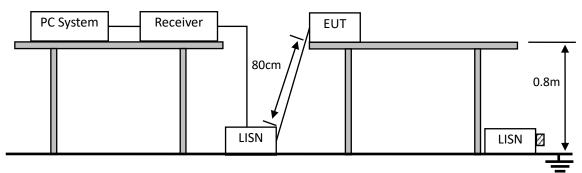
₿ Spectrum Ref Level 20.00 dBm Offset 4.60 dB 👄 RBW 100 kHz Att 30 dB SWT 113.8 µs 😑 VBW 300 kHz Mode Auto FFT SGL Count 1000/1000 ⊖1Pk Max M1[1] 1.92 dBn 2.47895000 GHz 10 dBm M2[1] -55.98 dBn 0 dBm· 2.48350000 GHz -10 c Bm D1 -17.976 -20 dBm--30 d<mark>B</mark>m -40 dem -50 dBmr2 M4. N/3 wantura worden for a vor who who who July بالمستقلما الاستهار margaret -60 dBm· -70 dBm· Start 2.476 GHz 1001 pts Stop 2.576 GHz Marker Type | Ref | Trc | Function Result X-value Y-value Function 1.92 dBm -55.98 dBm 2.47895 GHz Μ1 1 M2 2.4835 GHz 1 MЗ 2.5 GHz -56.69 dBm 1 2.4996 GHz M4 -53.85 dBm 1 100

Band Edge(Hopping) NVNT 3-DH1 2480MHz Ant1 Hopping Emission

Date: 19.MAY.2023 05:53:25

10. POWER LINE CONDUCTED EMISSIONS

10.1.Block Diagram of Test Setup



\blacksquare :50 Ω Terminator

10.2.Limit

	Maximum RF Line Voltage						
Frequency	Quasi-Peak Level	Average Level					
	dB(µV)	dB(μV)					
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*					
500kHz ~ 5MHz	56	46					
5MHz ~ 30MHz	60	50					

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.3.Test Procedure

(1) The EUT was placed on a non-metallic table, 80cm above the ground plane.

(2) Setup the EUT and simulator as shown in 10.1

(3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on conducted Emission test.

(4) The bandwidth of test Display is set at 10KHz.

(5) The frequency range from 150 KHz to 30MHz is checked.

10.4.Test Result

Not applicable for equipment operated with battery.

11. ANTENNA REQUIREMENTS

11.1.Limit

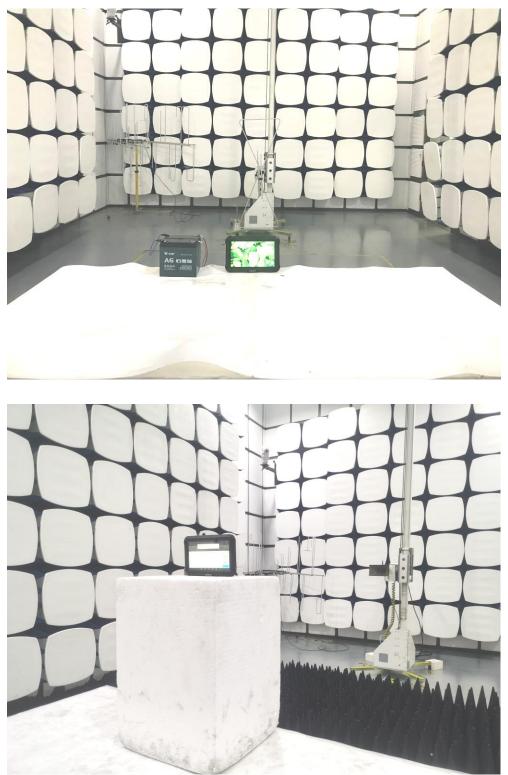
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

11.2.Result

The EUT antenna is Internal Antenna. It complies with the standard requirement.

12. TEST SETUP PHOTO

12.1.Photo of Radiated Emission test



13. EUT Photo



