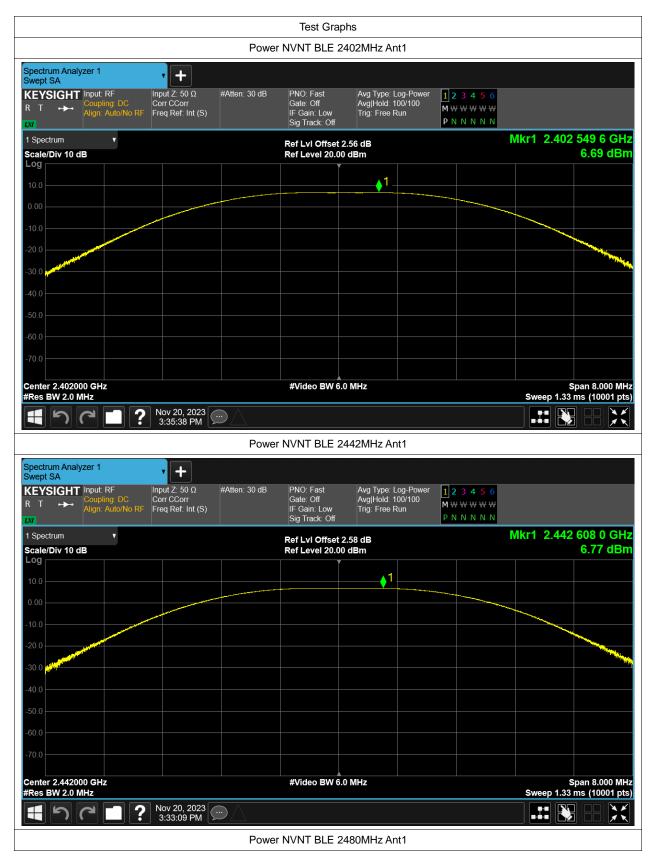


Test Data

Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	6.686	30	Pass
NVNT	BLE	2442	Ant1	6.766	30	Pass
NVNT	BLE	2480	Ant1	6.573	30	Pass











-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	limit	Verdic
NVNT	BLE	2402	Ant1	1.148	0.5	Pass
NVNT	BLE	2442	Ant1	1.13	0.5	Pass
NVNT	BLE	2480	Ant1	1.107	0.5	Pass











Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE	2402	Ant1	2.044
NVNT	BLE	2442	Ant1	2.053
NVNT	BLE	2480	Ant1	2.055







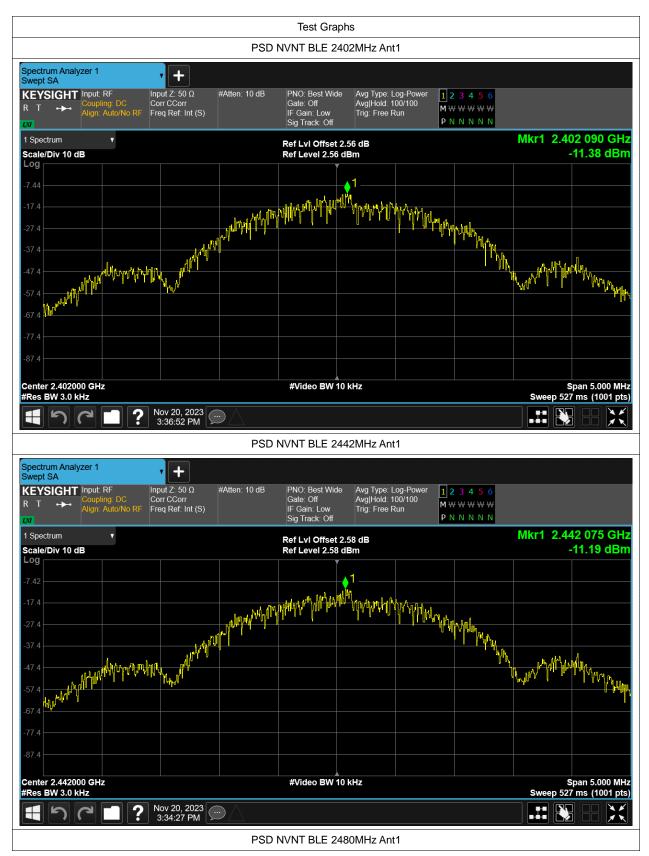




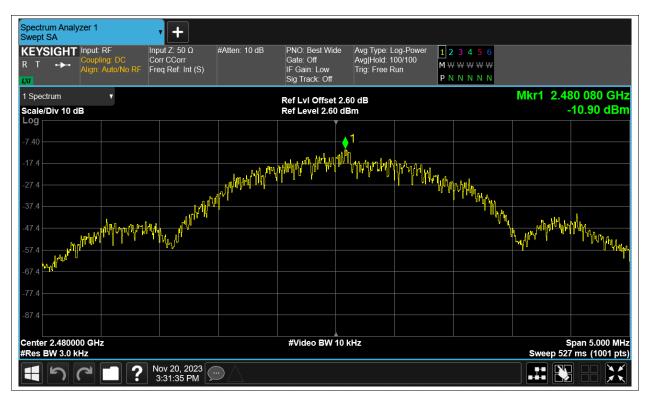
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE	2402	Ant1	-11.38	8	Pass
NVNT	BLE	2442	Ant1	-11.192	8	Pass
NVNT	BLE	2480	Ant1	-10.9	8	Pass











Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-58.23	-20	Pass
NVNT	BLE	2480	Ant1	-55.21	-20	Pass











Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE	2402	Ant1	-55.43	-20	Pass
NVNT	BLE	2442	Ant1	-54.96	-20	Pass
NVNT	BLE	2480	Ant1	-55.39	-20	Pass







Spectrum Analyzer 1 Swept SA	• +							
KEYSIGHT Input: RF R T ↔ Coupling: DC Align: Auto/No RF	Corr CCorr	#Atten: 30 dB	PNO: Best Wide Gate: Off IF Gain: Low Sig Track: Off	Avg Type: L Avg Hold: 1 Trig: Free F	00/100 Run M-	2 3 4 5 6 ₩₩₩₩₩ N N N N N		
1 Spectrum v			Ref LvI Offset 2		'		Mkr1 2.442	
Scale/Div 10 dB			Ref Level 20.00	dBm				6.63 dBm
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0.00	mmm	wm	mmmmm		- Wardelland		Comment of the first	and the second
-10.0	V							
-20.0								
-30.0								
-40.0								
-50.0								
-60.0								
-70.0								
Center 2.4420000 GHz			#Video BW 30	0 kHz			s	pan 1.500 MHz
#Res BW 100 kHz		~ ^) ms (1001 pts)
4 7 C 1 ?	Nov 20, 2023 3:34:32 PM							
	Тх	. Spurious N	IVNT BLE 244	12MHz Ant1	Emission			
Spectrum Analyzer 1	•							
Swept SA	• • • • • • • • • • • • • • • • •	#Atten: 30 dB	PNO: Fast	Avg Type: L	.og-Power 1	23456		
	Corr CCorr	#Atten: 30 dB	PNO: Fast Gate: Off IF Gain: Low	Avg Type: L Avg Hold: 1 Trig: Free F	0/10 Run M	23456 ₩₩₩₩₩₩		
Swept SA KEYSIGHT Input: RF R T +++ Align: Auto/No RF	Corr CCorr	#Atten: 30 dB	Gate: Off	Avg Hold: 1	0/10 Run M		Mird	2.429.64-
Swept SA KEYSIGHT Input: RF R T Align: Auto/No RF	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	2.439 GHz 3.56 dBm
Swept SA KEYSIGHT Input: RF R T + Auto/No RF W 1 Spectrum	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	2.439 GHz 3.56 dBm
Swept SA KEYSIGHT Input: RF R T \leftrightarrow Align: Auto/No RF VV 1 Spectrum V Scale/Div 10 dB Log 0.00	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	3.56 dBm
Swept SA KEYSIGHT R T → AutorNo RF Coupling: DC Align: AutorNo RF NT 1 Spectrum Scale/Div 10 dB Log 10.0 -10.0 -20.0	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	
Swept SA KEYSIGHT R T XV 1 Spectrum Scale/Div 10 dB Log 10.0 0.00 -10.0	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	3.56 dBm
Swept SA Input: RF R T Coupling: DC Align: Auto/No RF Align: Auto/No RF V/ Scale/Div 10 dB Log 1 10.0 1 -20.0 - -30.0 - -50.0 -	Corr CCorr	#Atten: 30 dB	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	3.56 dBm
Swept SA KEYSIGHT R T A I Spectrum Scale/Div 10 dB Log 10.0 -10.0 -30.0 -40.0 -50.0 -40.0 -50.0	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB	0/10 Run M	₩₩₩₩₩	Mkr1	3.56 dBm
Swept SA Input: RF R T Coupling: DC Align: Auto/No RF Align: Auto/No RF V/ Scale/Div 10 dB Log 1 10.0 1 -30.0 1 -30.0 1 -50.0 -40.0 -70.0 -50.0 Start 30 MHz -50.0	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2	Avg Hold: 1 Trig: Free F 2.58 dB dBm	0/10 Run M	₩₩₩₩₩		3.56 dBm
Swept SA Input: RF R T Coupling: DC Align: Auto/No RF Align: Auto/No RF I Spectrum V Scale/Div 10 dB 0 10.0 1 -20.0 1 -30.0 1 -50.0 - -70.0 -	Corr CCorr Freq Ref. Int (S)		Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00	Avg Hold: 1 Trig: Free F 2.58 dB dBm	0/10 Run M	₩₩₩₩₩		3.56 dBm
Swept SA KEYSIGHT R T → AutorNo RF Coupling: DC Align: AutorNo RF NT 1 Spectrum Scale/Div 10 dB Log 10.0 0.00 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -50.0 -70.0 Start 30 MHz #Res BW 100 kHz 5 Marker Table Mode Trace Scale	Corr CCorr Freq Ref. Int (S)	4 	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 30	Avg Hold: 1 Trig: Free F 2.58 dB dBm	0/10 M H	₩₩₩₩₩		3.56 dBm
Swept SA Input: RF R T Coupling: DC Align: Auto/No RF Align: Auto/No RF V/ 1 Spectrum 1 Spectrum Scale/Div 10 dB	Corr CCorr Freq Ref. Int (S)	139 GHz 333 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 30 #Video BW 30	Avg Hold: 1 Trig: Free F 2.58 dB dBm 0 dBm	0/10 M H	W W W W W N N N N N I	Sweep ~2.	3.56 dBm
Swept SA KEYSIGHT R T Input: RF Coupling: DC Align: Auto/No RF INT 1 Spectrum Scale/Div 10 dB Log 10.0 -10.0 -200 -30.0 -40.0 -50.0 -50.0 -60.0 -70.0 Start 30 MHz #Res BW 100 kHz 5 Marker Table Mode Trace Scale 1 f 3 1 4 1	Corr CCorr Freq Ref. Int (S)	139 GHz 139 GHz 130 GHz 150 GHz 150 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 3.558 dBm -55.46 dBm -55.46 dBm -55.41 dBm	Avg Hold: 1 Trig: Free F 2.58 dB dBm 0 dBm	0/10 M H	W W W W W N N N N N I	Sweep ~2.	3.56 dBm
Swept SA Input: RF R T 1 Spectrum 2 Scale/Div 10 dB Log 10.0 -20.0 -30.0 -40.0 -50.0 -70.0 Start 30 MHz #Res BW 100 kHz 5 Marker Table 5 Marker Table 2 1 f 3 1 f	Corr CCorr Freq Ref. Int (S)	139 GHz 130 GHz 150 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 30 #Video BW 30	Avg Hold: 1 Trig: Free F 2.58 dB dBm 0 dBm	0/10 M H	W W W W W N N N N N I	Sweep ~2.	3.56 dBm
Swept SA KEYSIGHT R T Input: RF Coupling: DC Align: Auto/No RF I Spectrum • Scale/Div 10 dB • Log 10.0 • • -20.0 • • -30.0 • • -30.0 • • -70.0 • • Start 30 MHz #Res BW 100 kHz • 5 Marker Table • Mode Trace 2 N 1 3 N 1 4 N 1 5 N 1	Corr CCorr Freq Ref. Int (S)	139 GHz 133 GHz 133 GHz 150 GHz 150 GHz 150 GHz 150 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 3.558 dBm -55.46 dBm -55.46 dBm -55.41 dBm	Avg Hold: 1 Trig: Free F 2.58 dB dBm 0 dBm	0/10 M H	W W W W W N N N N N I	Sweep ~2.	3.56 dBm
Swept SA KEYSIGHT R T Input: RF Coupling: DC Align: Auto/No RF I Spectrum • Scale/Div 10 dB • Log 10.0 • • -20.0 • • -30.0 • • -30.0 • • -70.0 • • Start 30 MHz #Res BW 100 kHz • 5 Marker Table • Mode Trace 2 N 1 3 N 1 4 N 1 5 N 1	Corr CCorr Freq Ref. Int (S)	139 GHz 133 GHz 150 GHz 150 GHz 150 GHz	Gate: Off IF Gain: Low Sig Track: Off Ref LvI Offset 2 Ref Level 20.00 #Video BW 30 #Video BW 30 Y 3.558 dBm -55.46 dBm -55.46 dBm -55.41 dBm	Avg Hold: 1 Trig: Free F 2.58 dB dBm 0 kHz Function	0/10 M 1 lun P Function	W W W W W N N N N N I	Sweep ~2.	3.56 dBm



