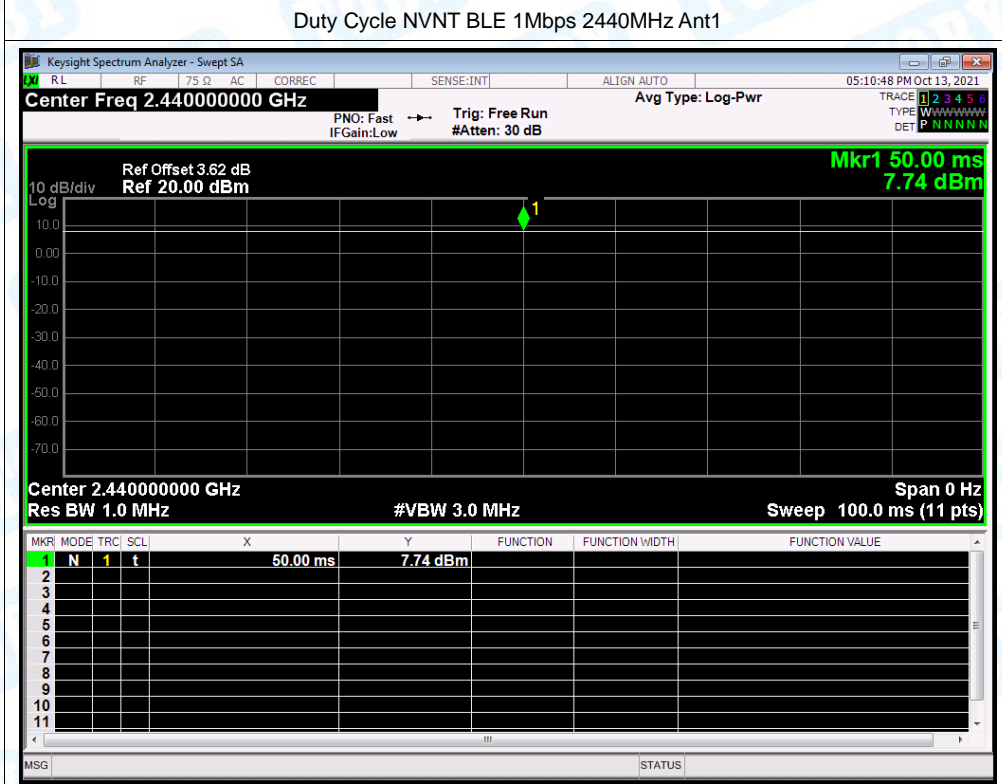
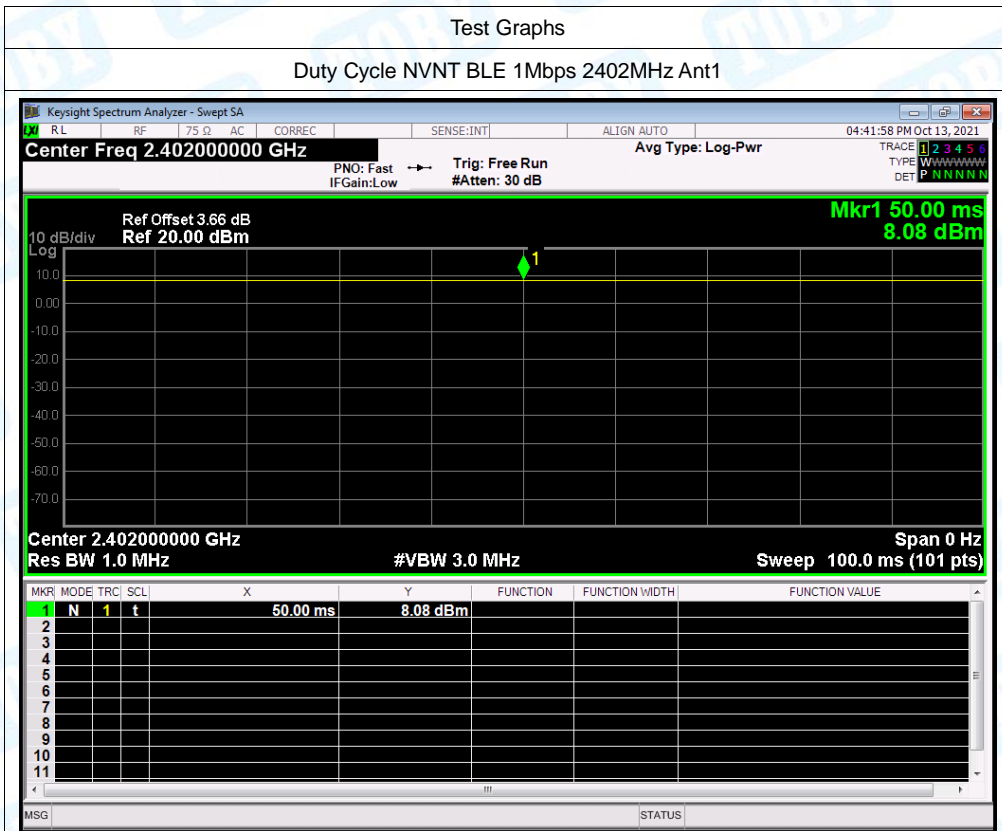


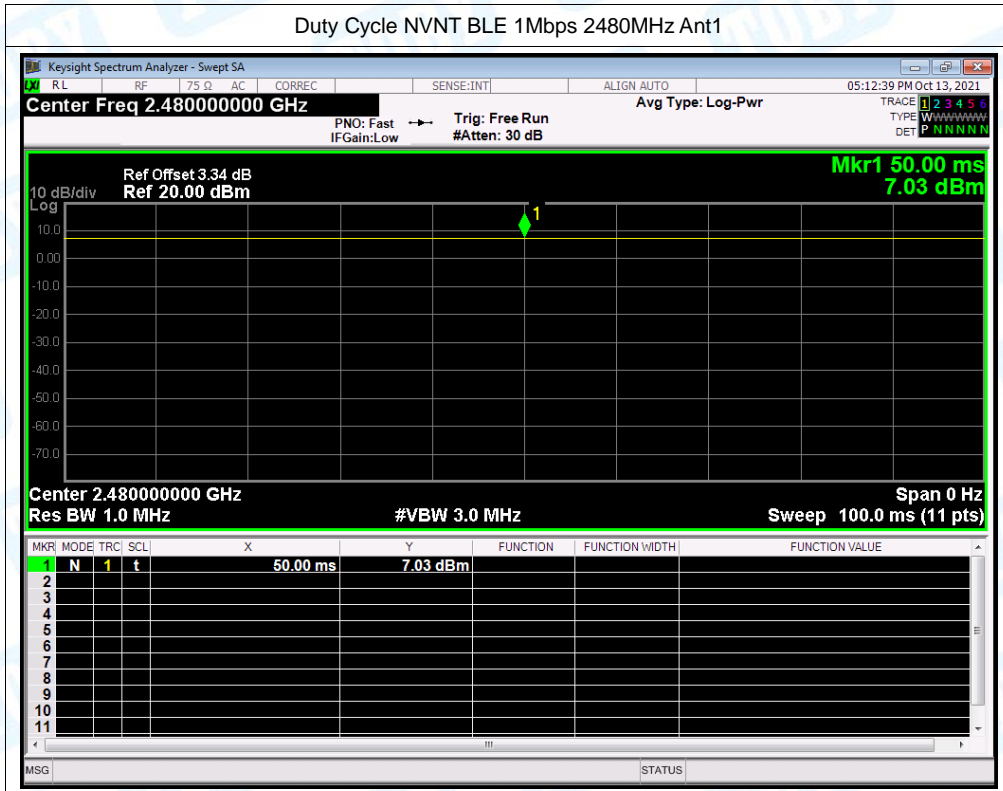
RF Test Data for Bluetooth LE (Conducted Measurements)

General Description of EUT	
Product Name:	070CH-D
Test Model:	KS070CH-D
Sample ID:	20210804-05_02-02#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 5V
Test Engineer:	HeJingchang
Note: For a more detailed features description, please refer to the report TB-FCC184011	

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1Mbps	2402	Ant1	100	0	0
NVNT	BLE 1Mbps	2440	Ant1	100	0	0
NVNT	BLE 1Mbps	2480	Ant1	100	0	0



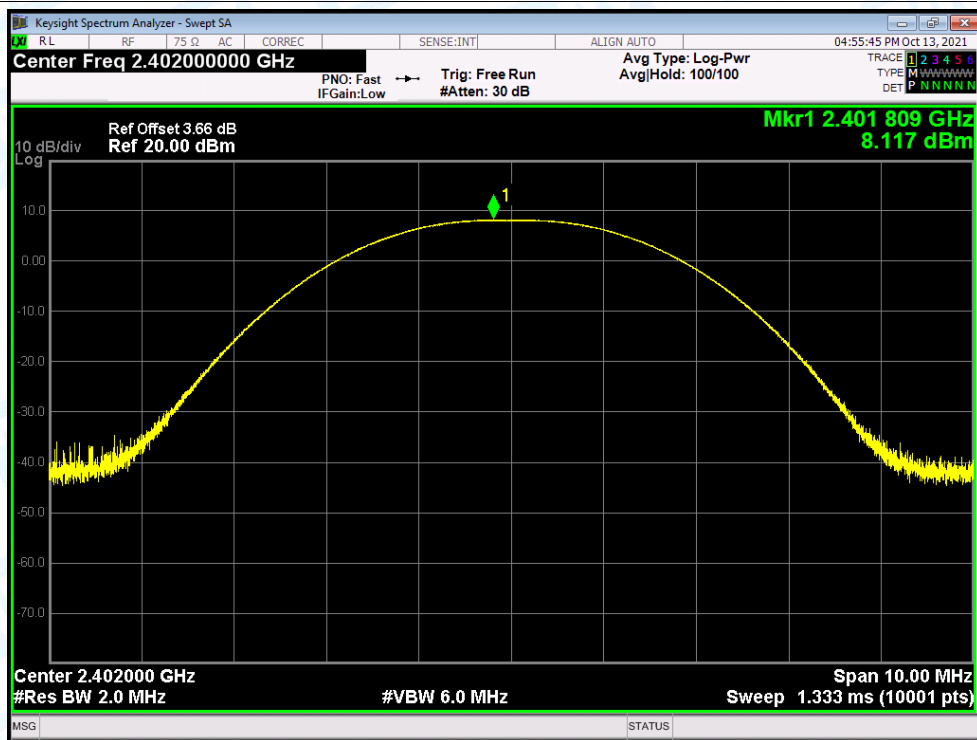


Maximum Conducted Output Power

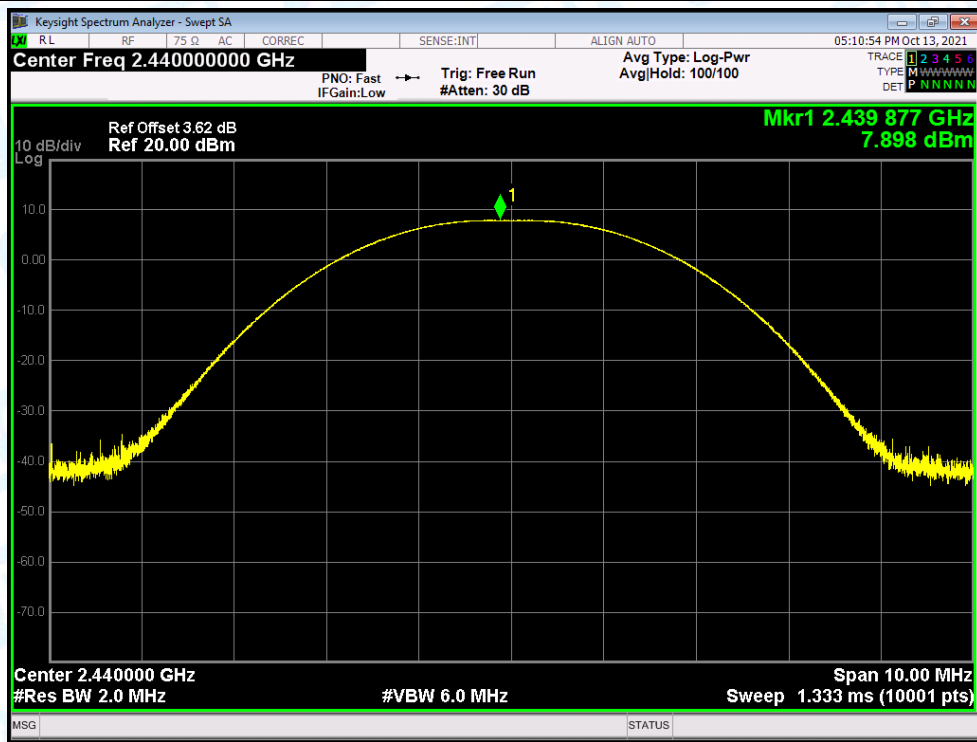
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	8.117	0	8.117	30	Pass
NVNT	BLE 1Mbps	2440	Ant1	7.898	0	7.898	30	Pass
NVNT	BLE 1Mbps	2480	Ant1	7.204	0	7.204	30	Pass

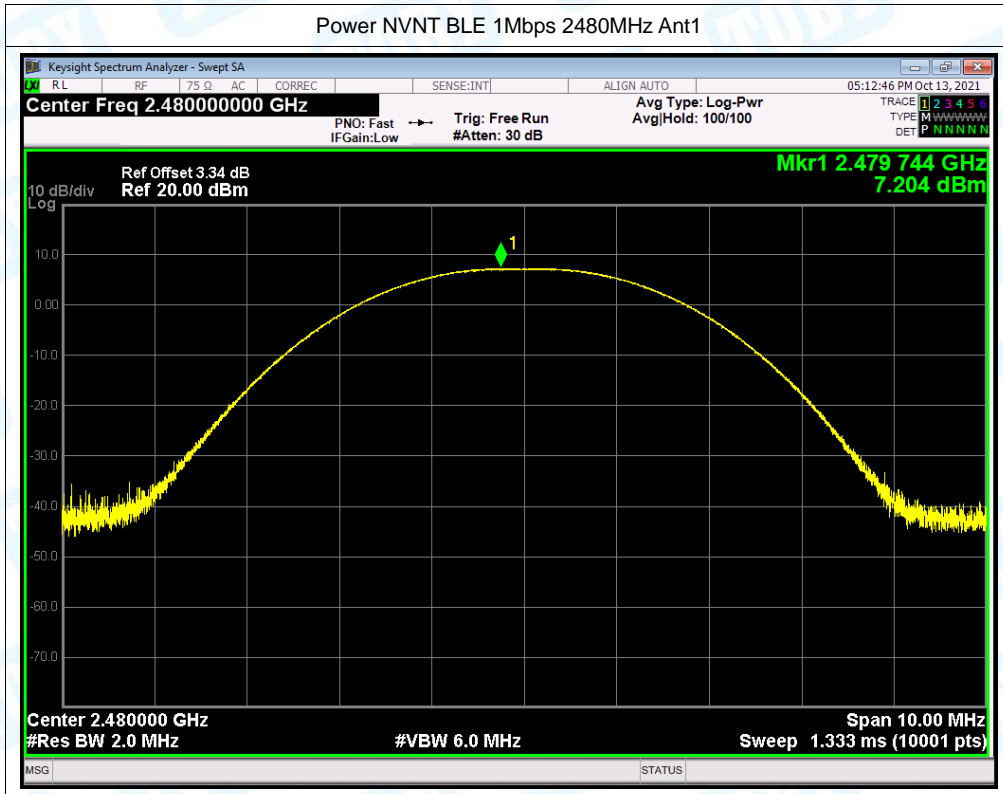
Test Graphs

Power NVNT BLE 1Mbps 2402MHz Ant1



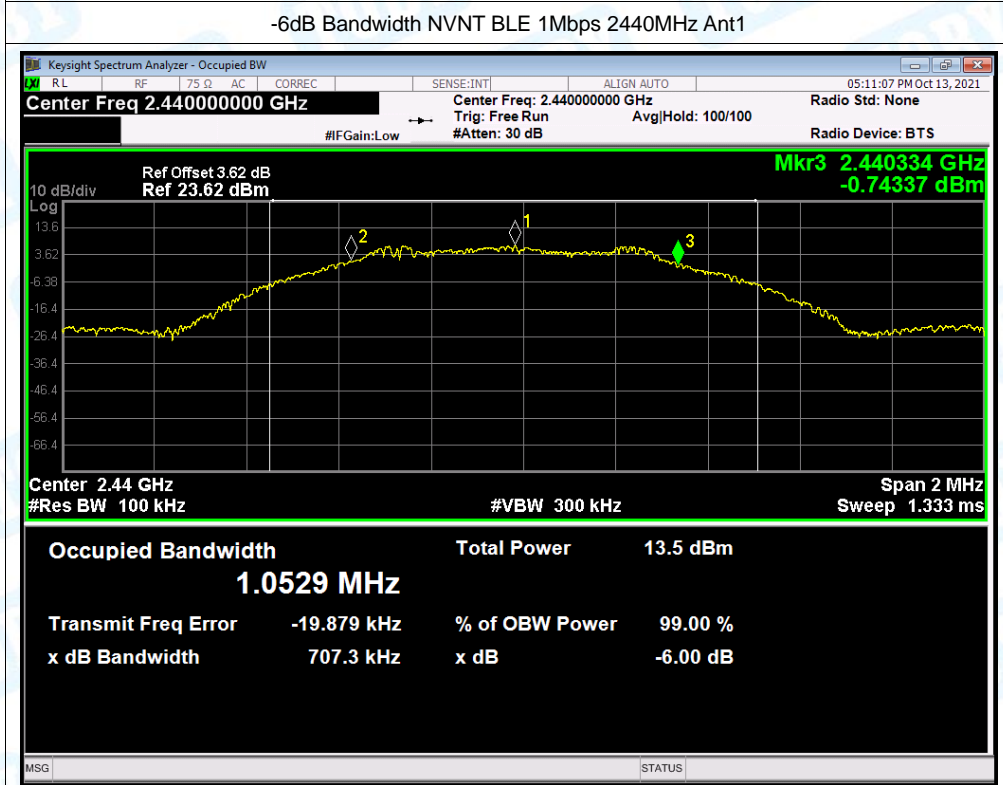
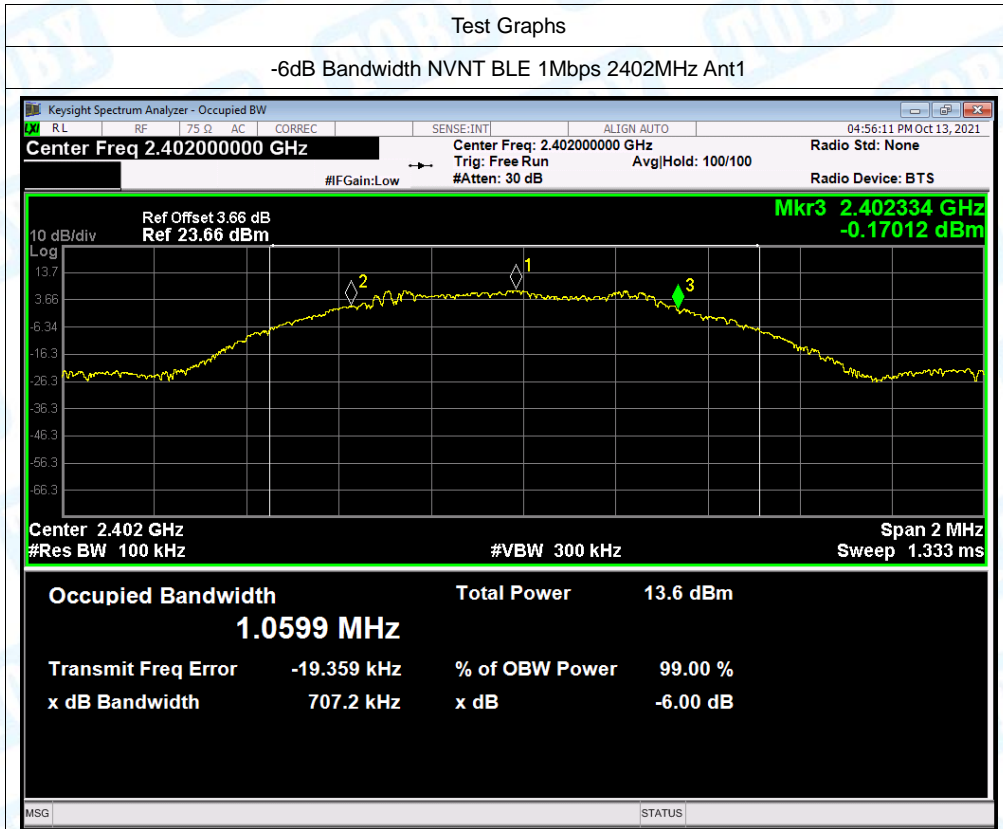
Power NVNT BLE 1Mbps 2440MHz Ant1

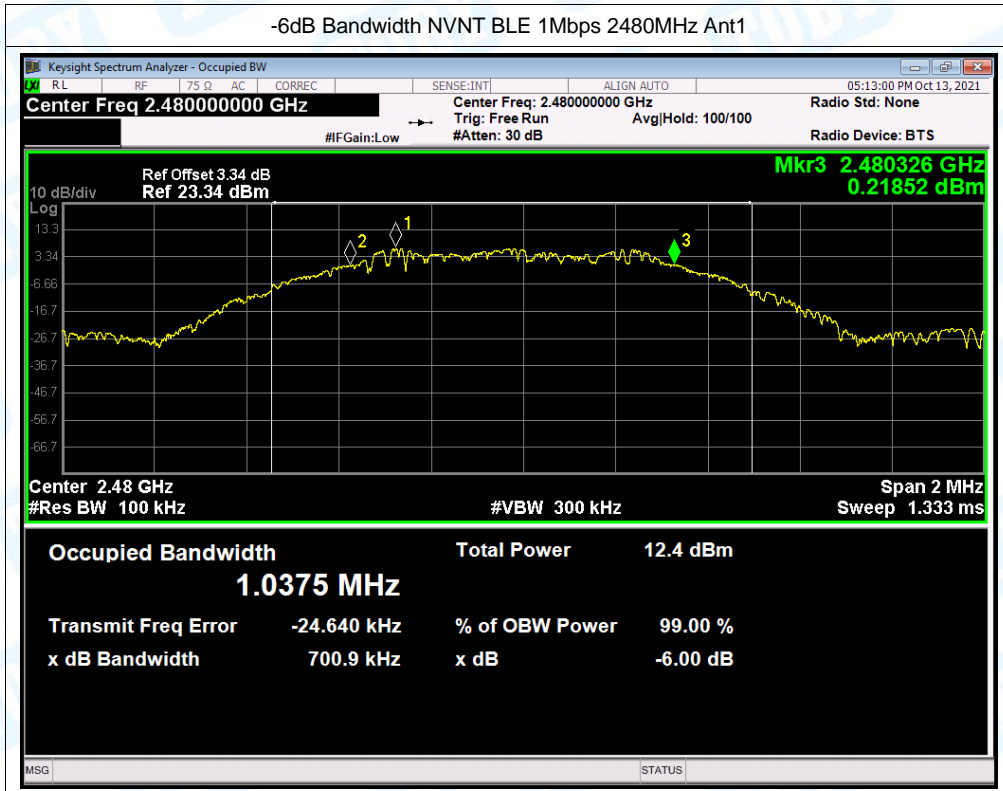




-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	0.707	0.5	Pass
NVNT	BLE 1Mbps	2440	Ant1	0.707	0.5	Pass
NVNT	BLE 1Mbps	2480	Ant1	0.701	0.5	Pass



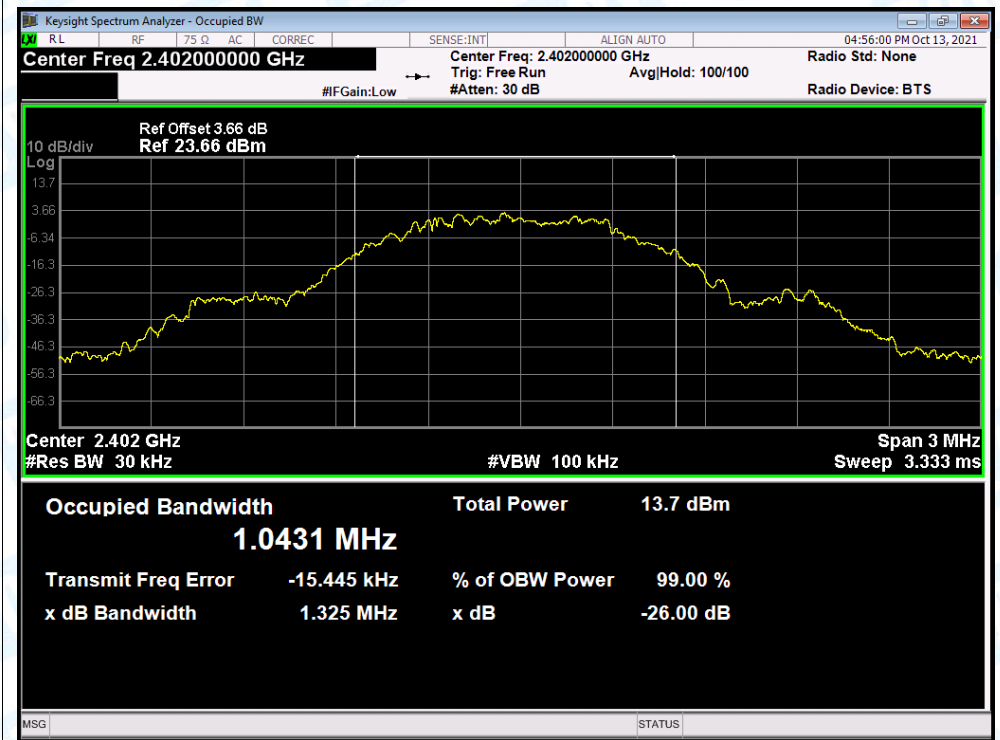


Occupied Channel Bandwidth

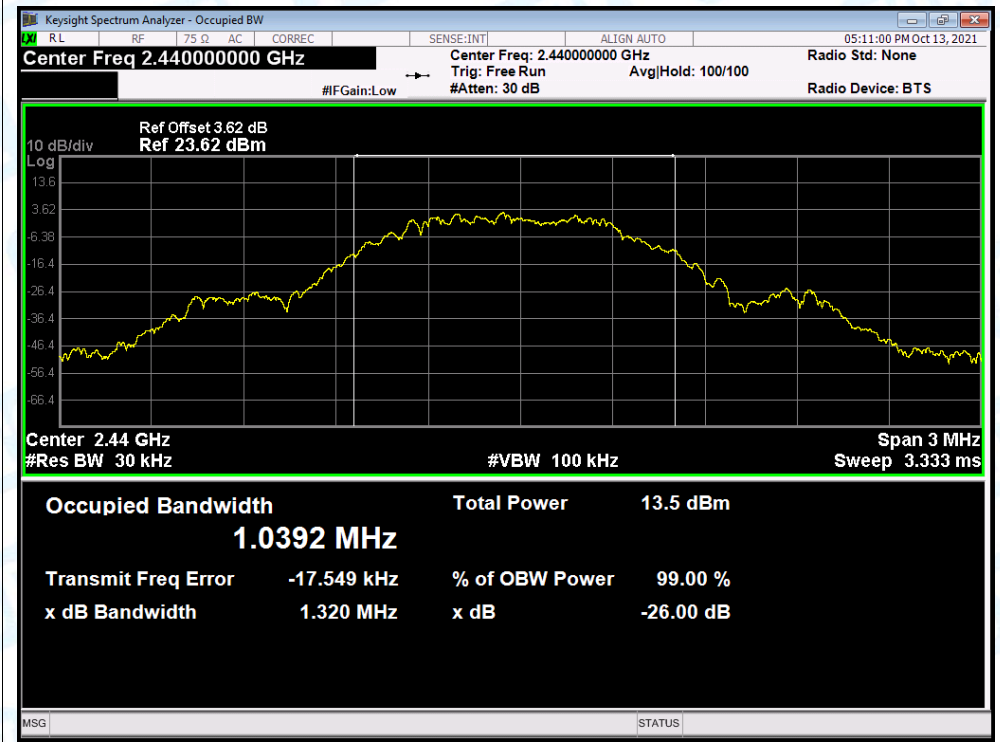
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1Mbps	2402	Ant1	1.0431
NVNT	BLE 1Mbps	2440	Ant1	1.0392
NVNT	BLE 1Mbps	2480	Ant1	1.0370

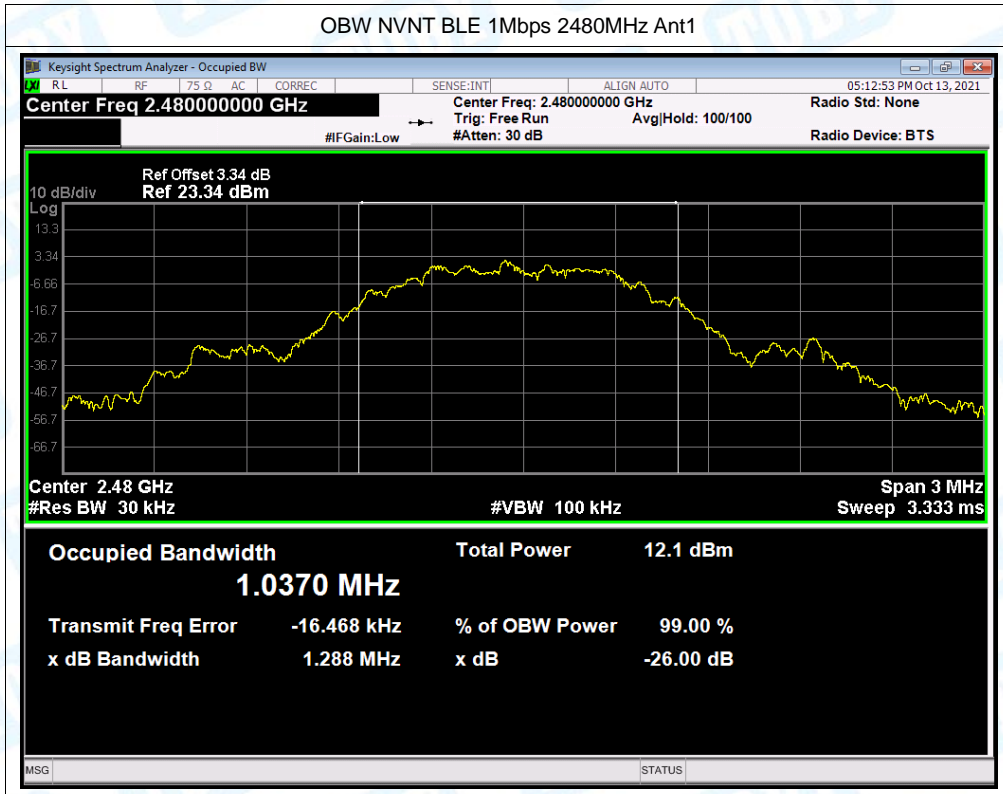
Test Graphs

OBW NVNT BLE 1Mbps 2402MHz Ant1



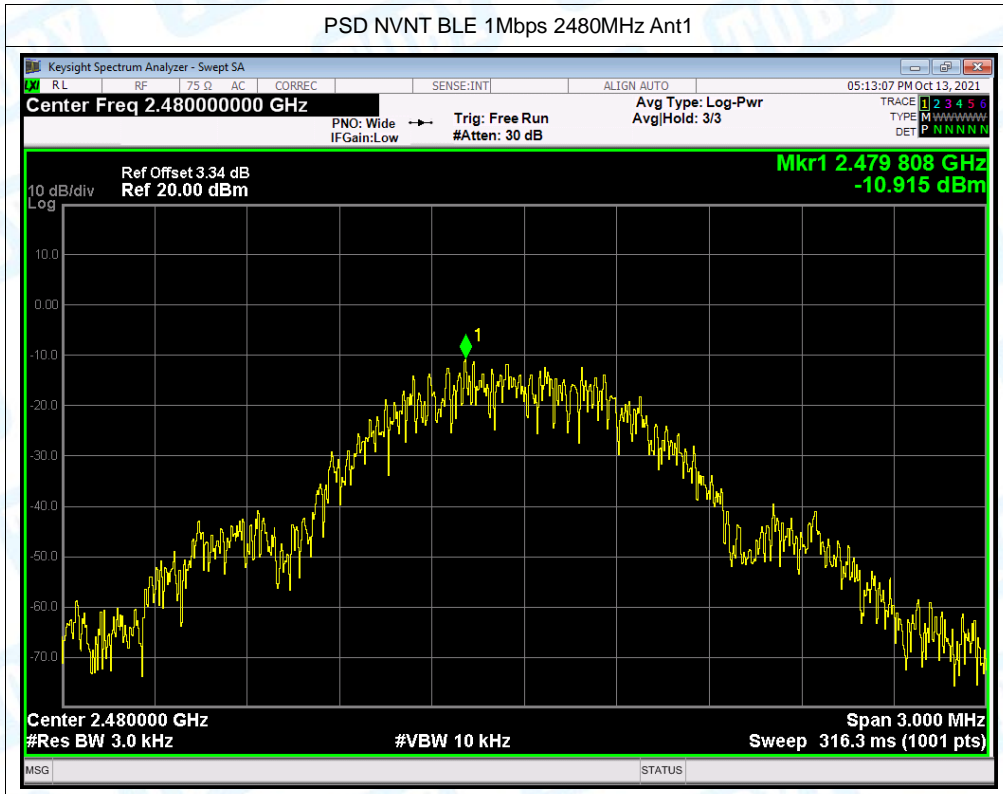
OBW NVNT BLE 1Mbps 2440MHz Ant1





Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-8.208	8	Pass
NVNT	BLE 1Mbps	2440	Ant1	-8.647	8	Pass
NVNT	BLE 1Mbps	2480	Ant1	-10.915	8	Pass

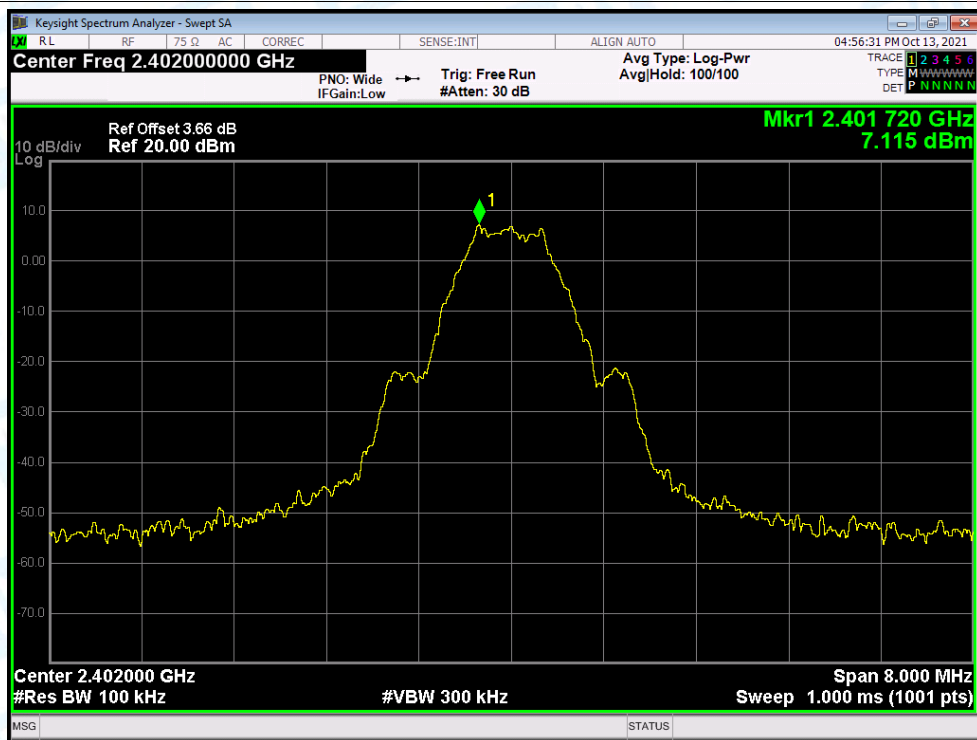


Band Edge

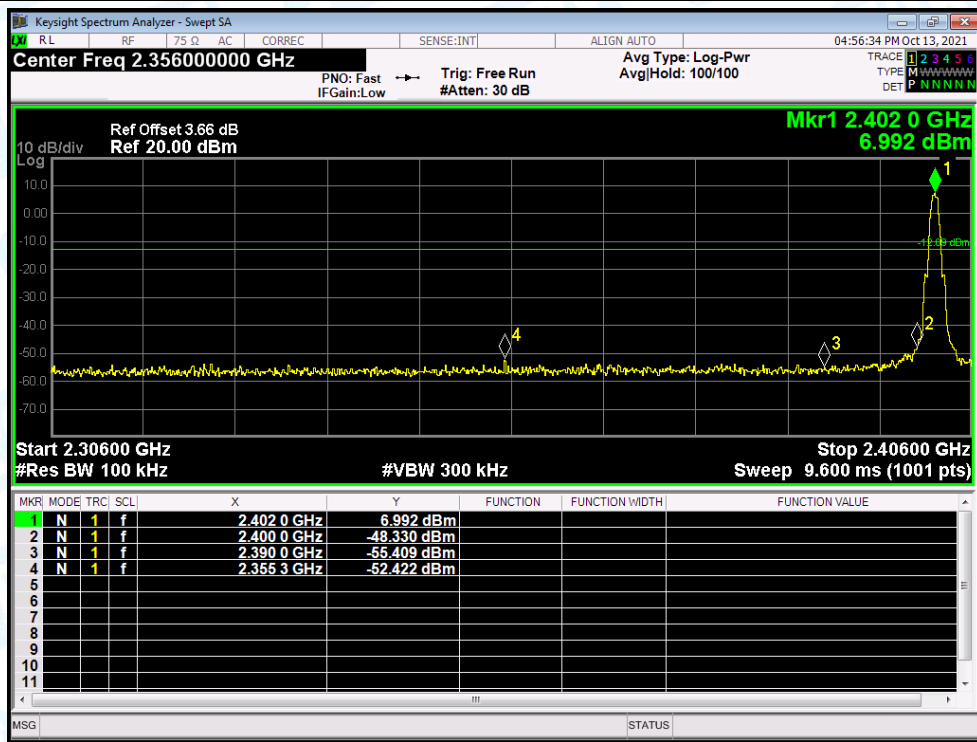
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-59.54	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-58.02	-20	Pass

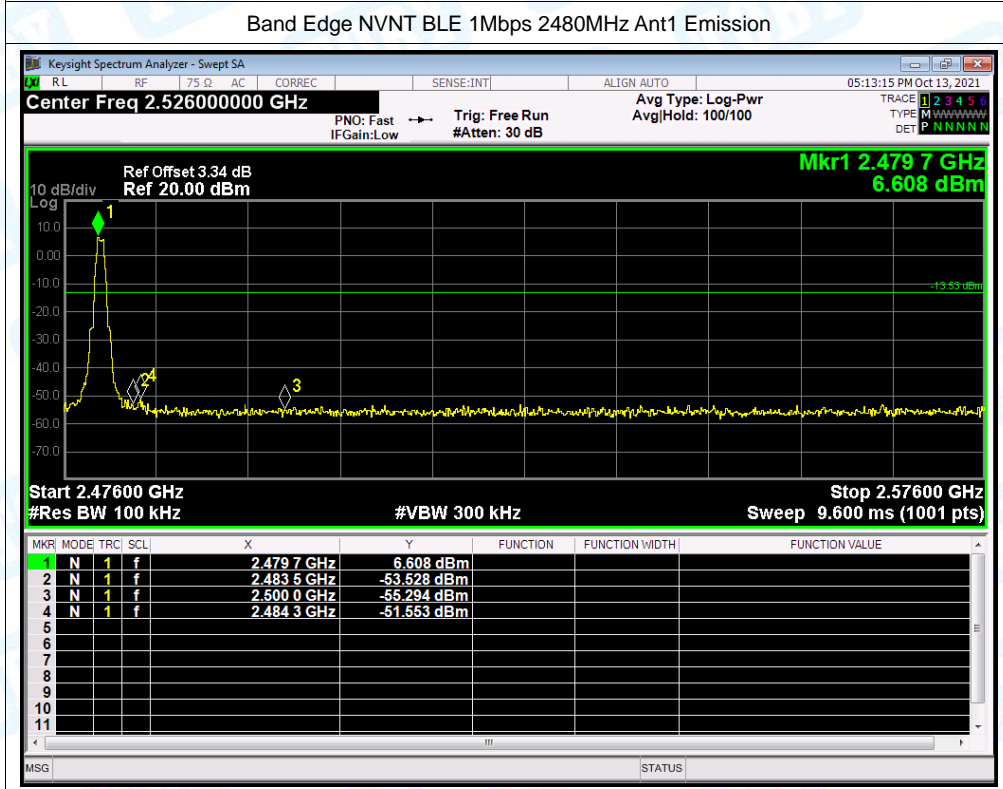
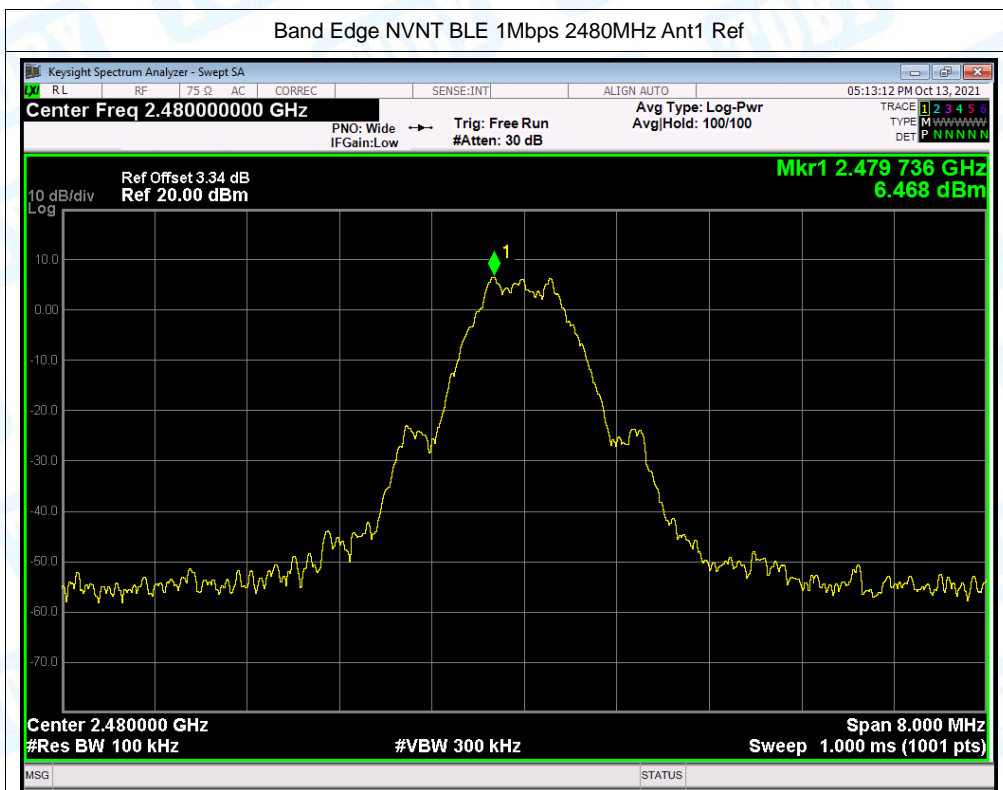
Test Graphs

Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Ref



Band Edge NVNT BLE 1Mbps 2402MHz Ant1 Emission





Conducted RF Spurious Emission

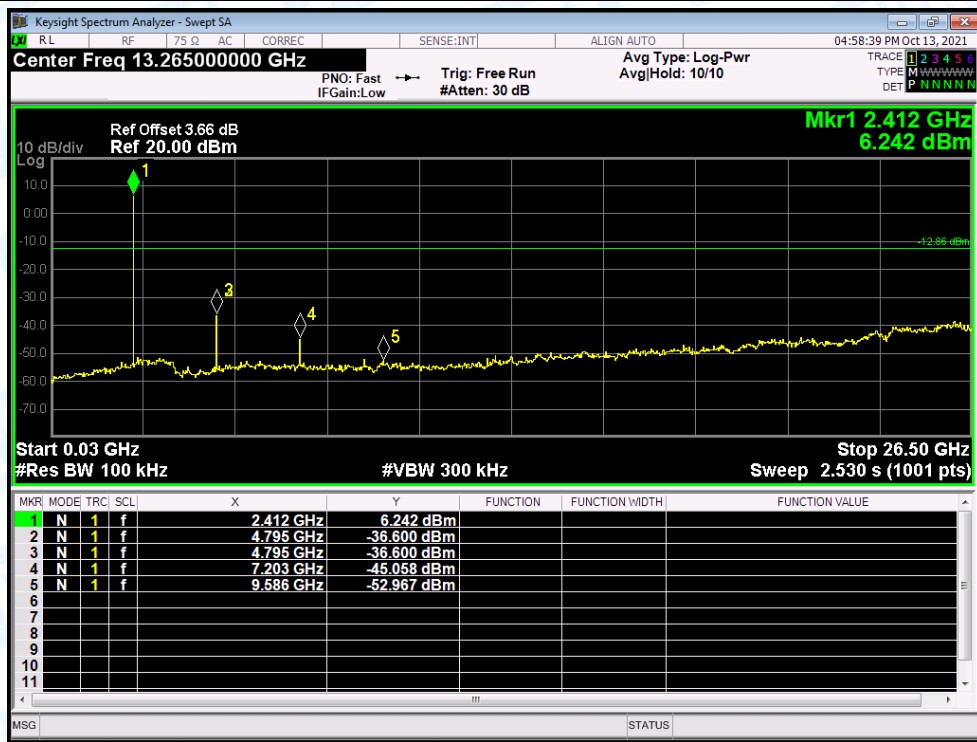
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	-43.74	-20	Pass
NVNT	BLE 1Mbps	2440	Ant1	-42.71	-20	Pass
NVNT	BLE 1Mbps	2480	Ant1	-46.23	-20	Pass

Test Graphs

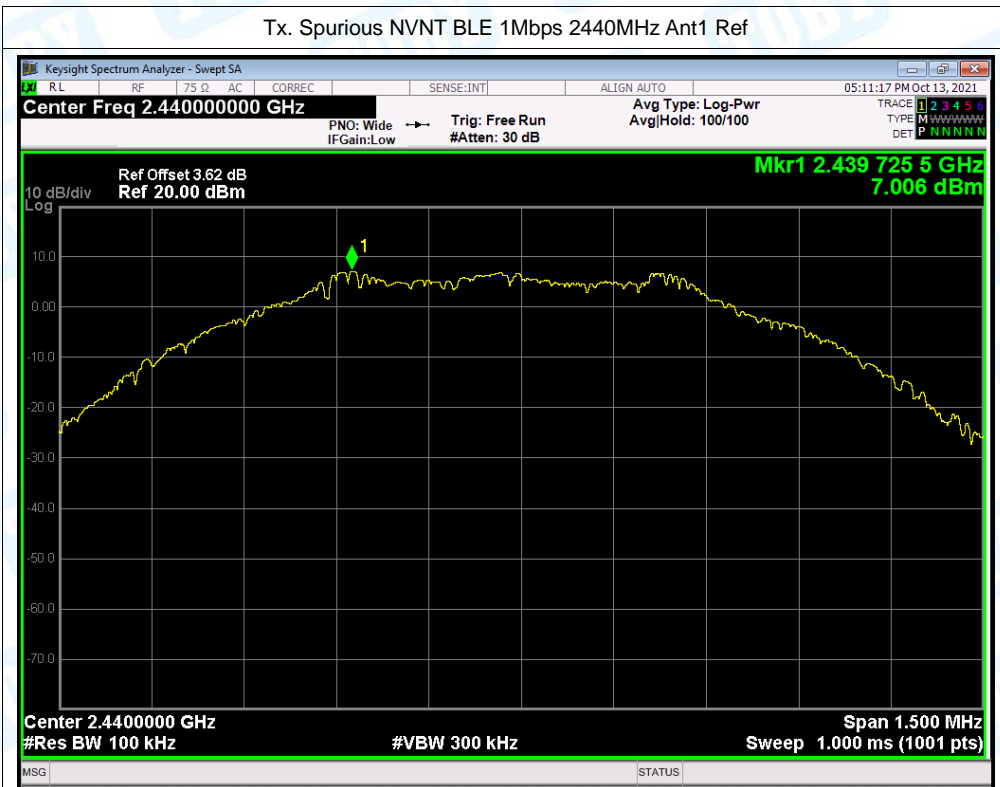
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Ref



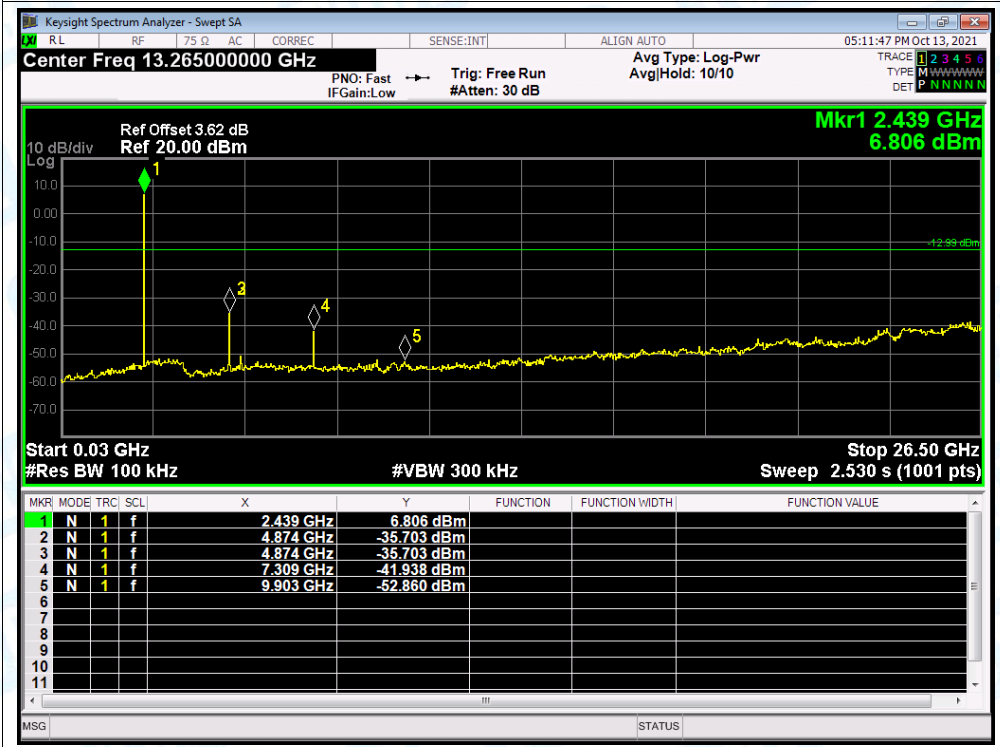
Tx. Spurious NVNT BLE 1Mbps 2402MHz Ant1 Emission



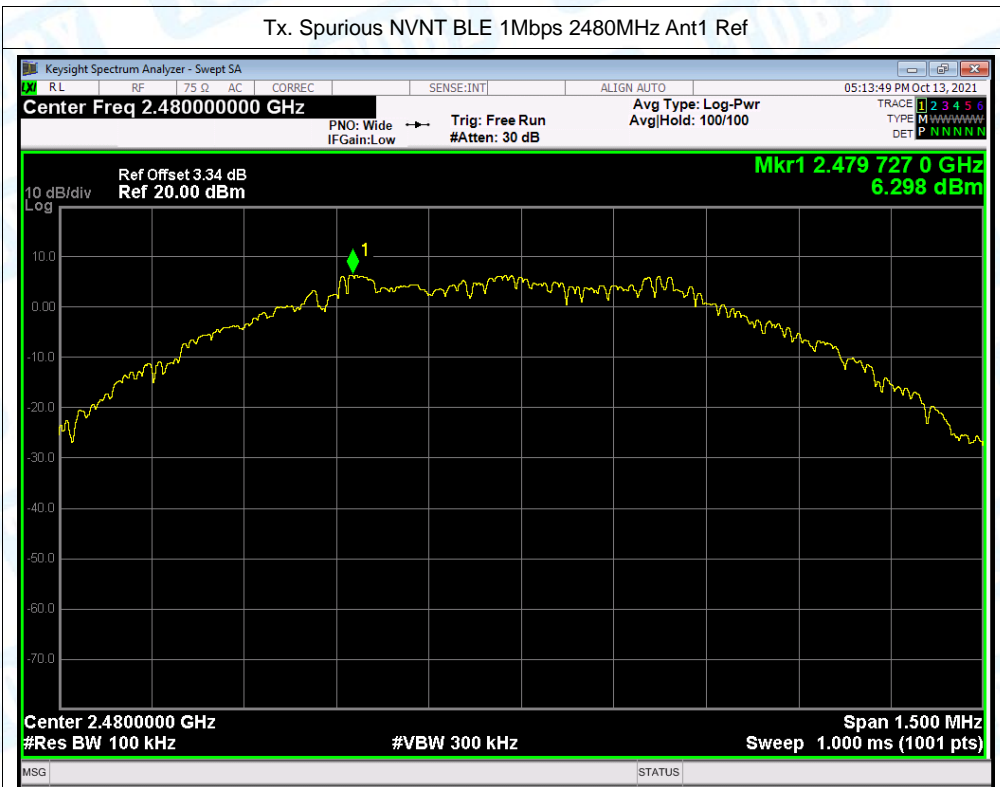
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Ref



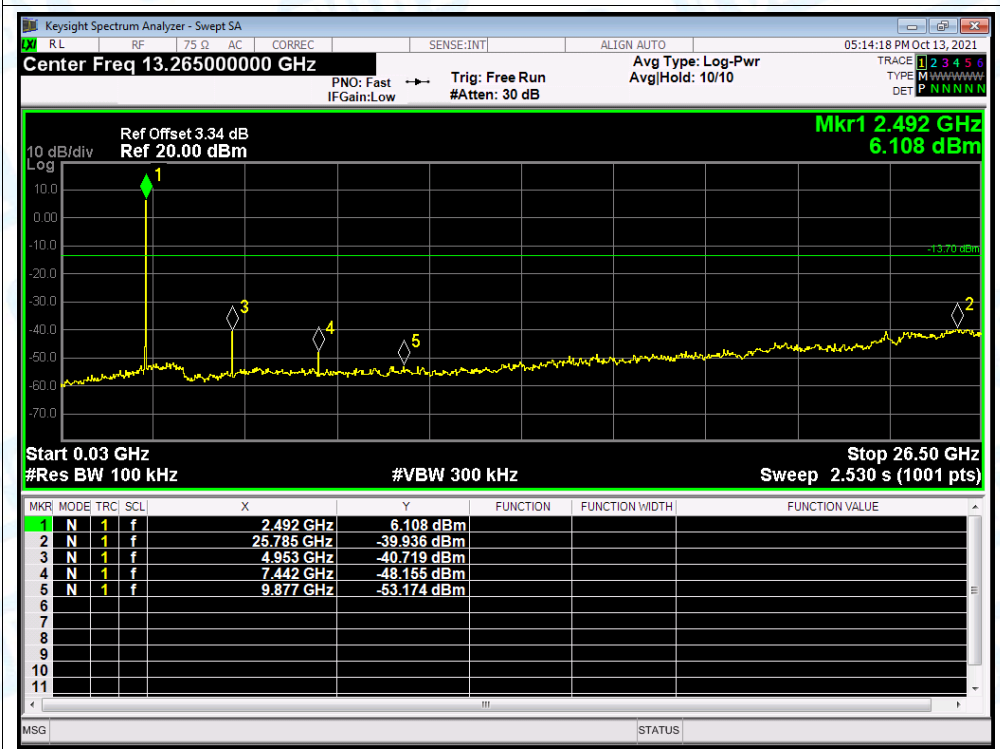
Tx. Spurious NVNT BLE 1Mbps 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1Mbps 2480MHz Ant1 Emission

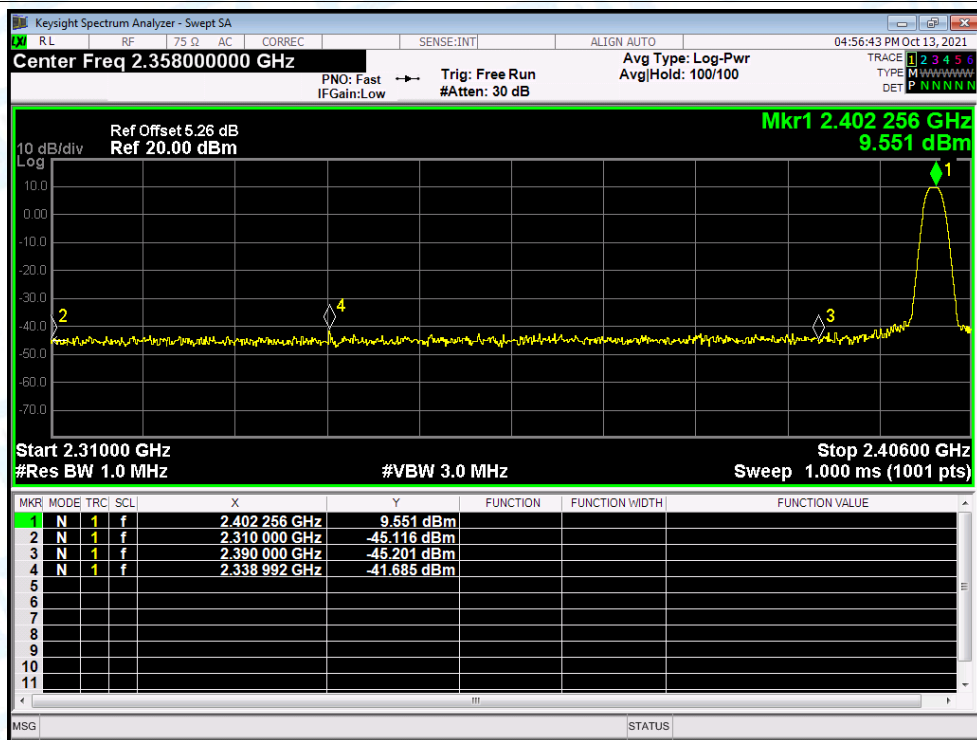


Restrict Band

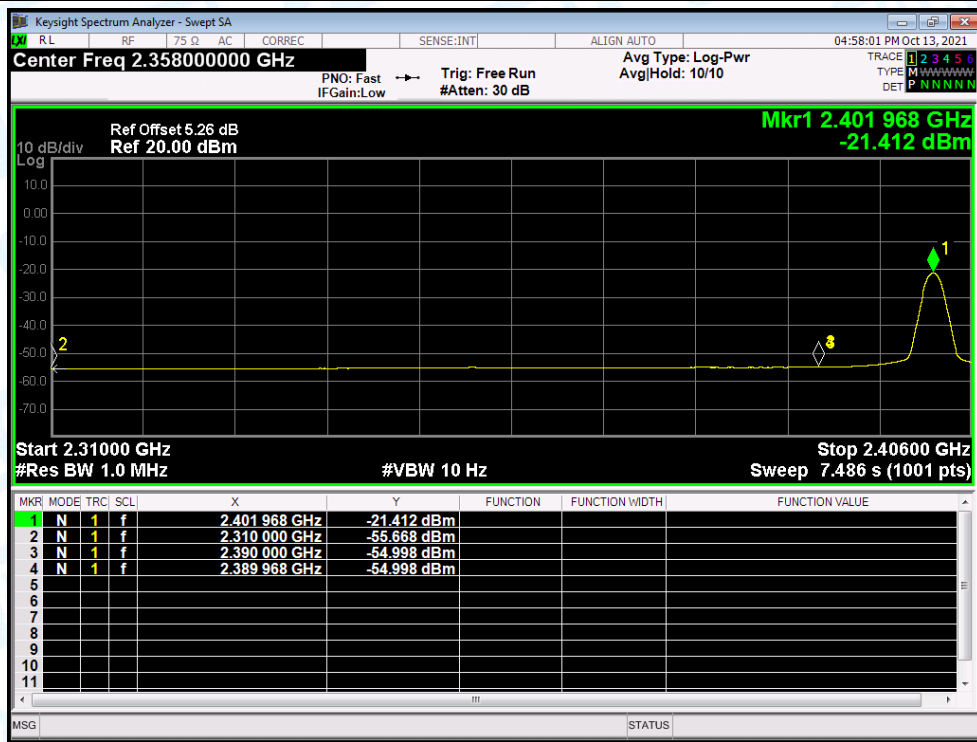
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1Mbps	2402	Ant1	2310	-46.24	2	51.02	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2310	-55.67	2	41.59	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2338.992	-41.68	2	55.58	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2389.968	-54.99	2	42.27	Average	54	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-46.16	2	51.1	Peak	74	Pass
NVNT	BLE 1Mbps	2402	Ant1	2390	-54.98	2	42.28	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-42.81	2	54.45	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.5	-53.9	2	43.36	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2484.664	-40.66	2	56.6	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2483.512	-53.9	2	43.36	Average	54	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-46.04	2	51.22	Peak	74	Pass
NVNT	BLE 1Mbps	2480	Ant1	2500	-54.83	2	42.43	Average	54	Pass

Test Graphs

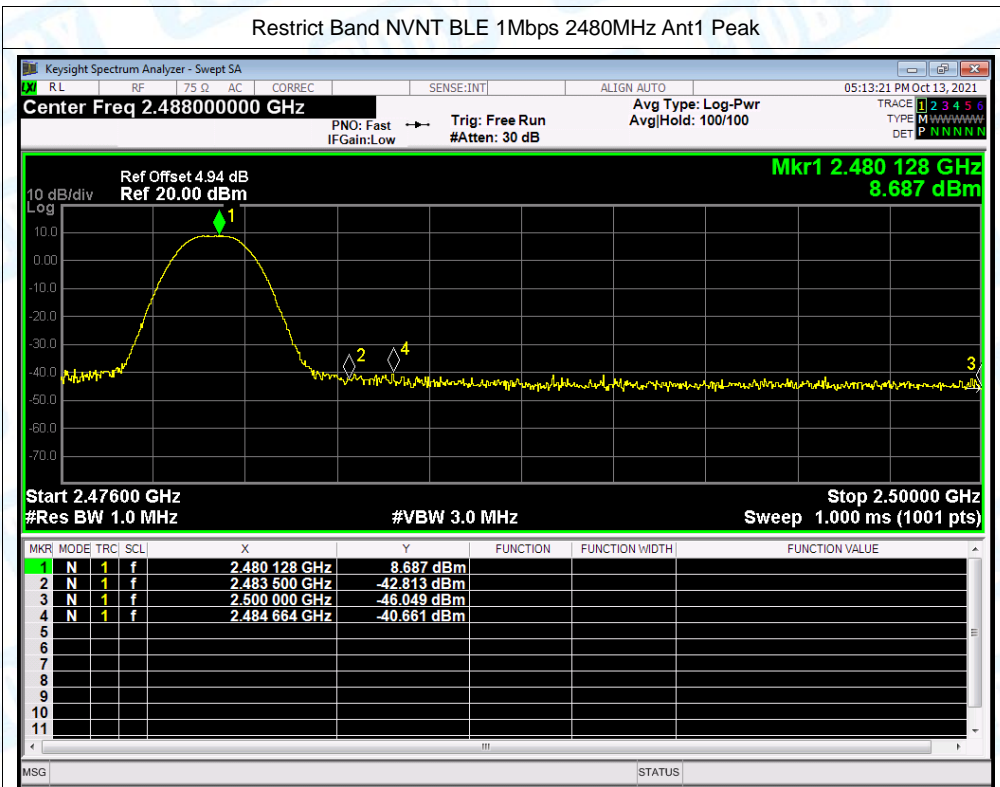
Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2402MHz Ant1 Average



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Peak



Restrict Band NVNT BLE 1Mbps 2480MHz Ant1 Average

