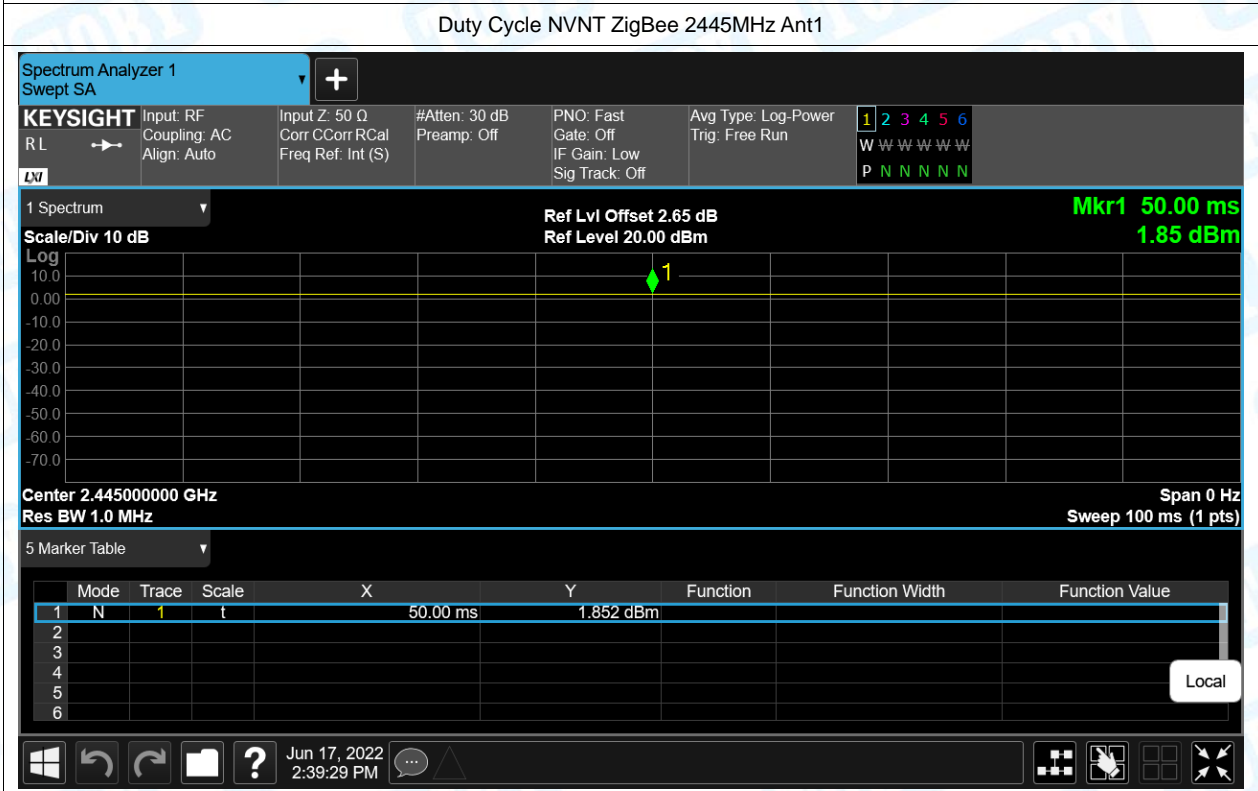
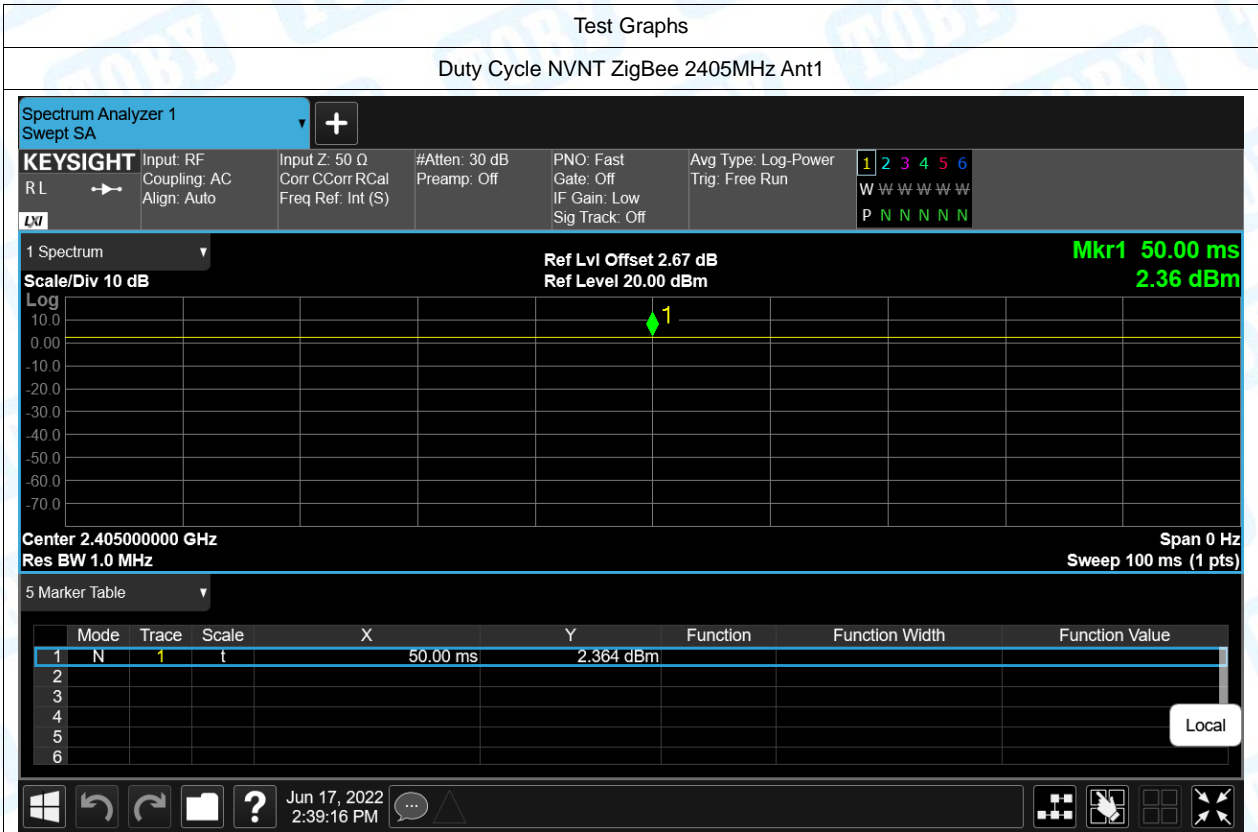


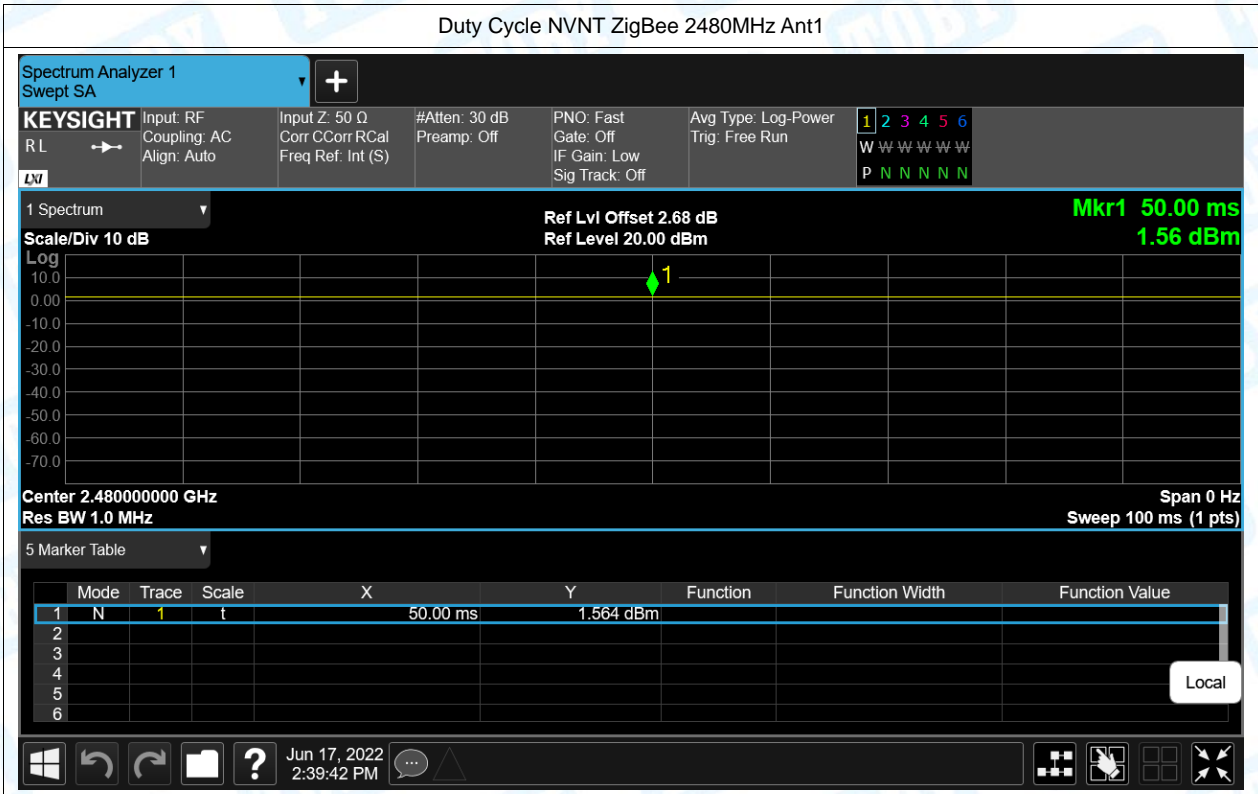
RF Test Data for ZigBee (Conducted Measurements)

General Description of EUT	
Product Name:	Wireless Controller
Test Model:	3920
Sample ID:	RW-C-202206-0083-9-2#
Environmental Conditions	
Temperature:	23.8°C
Relative Humidity:	48%
Test Voltage:	DC 3.7V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202206-0083-16.	

1. Duty Cycle

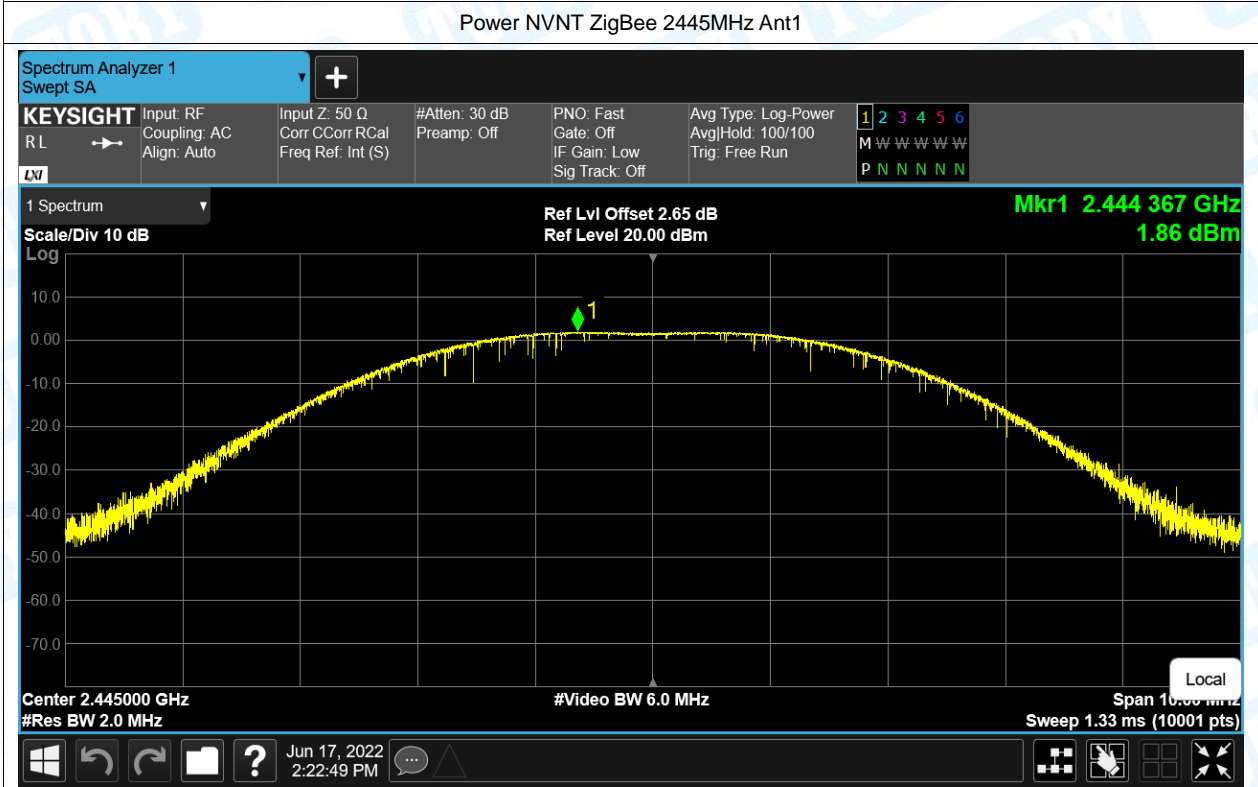
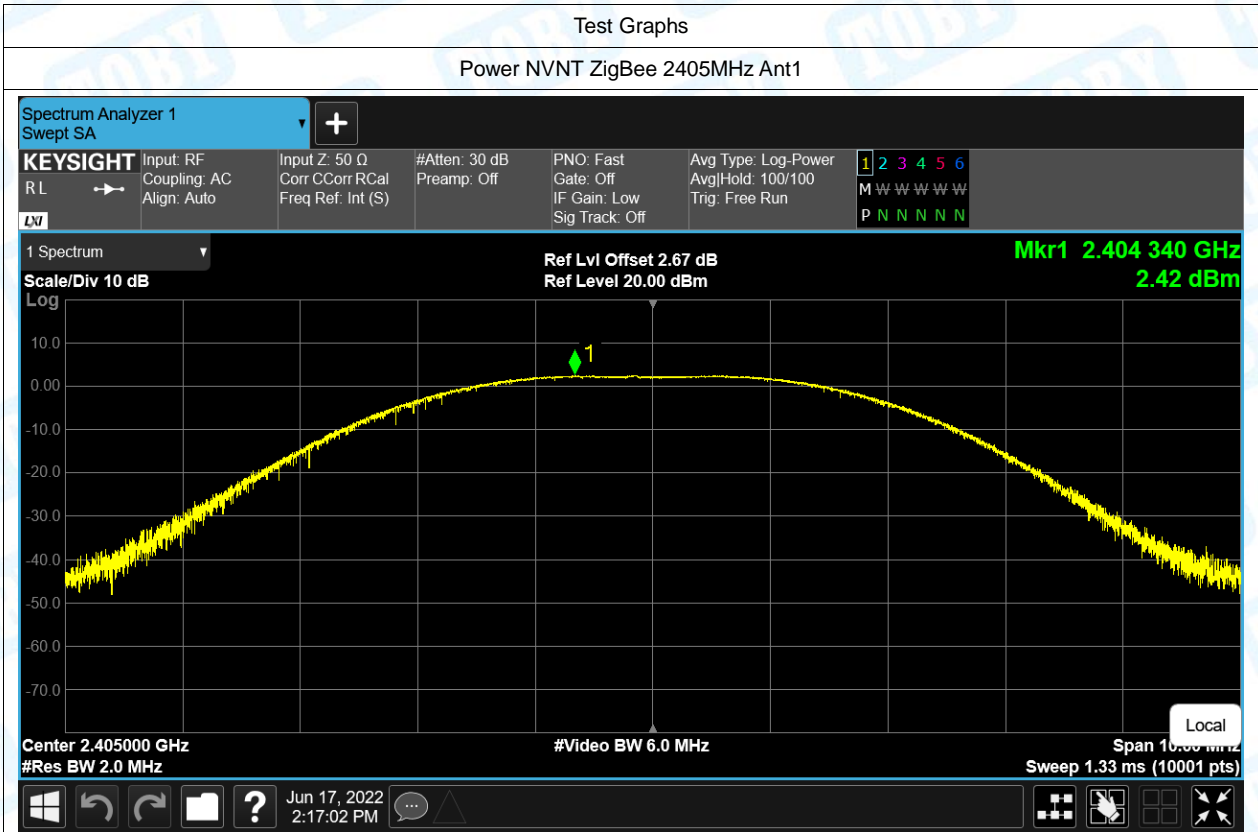
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	ZigBee	2405	Ant1	100	0	0
NVNT	ZigBee	2445	Ant1	100	0	0
NVNT	ZigBee	2480	Ant1	100	0	0





2. Maximum Conducted Output Power

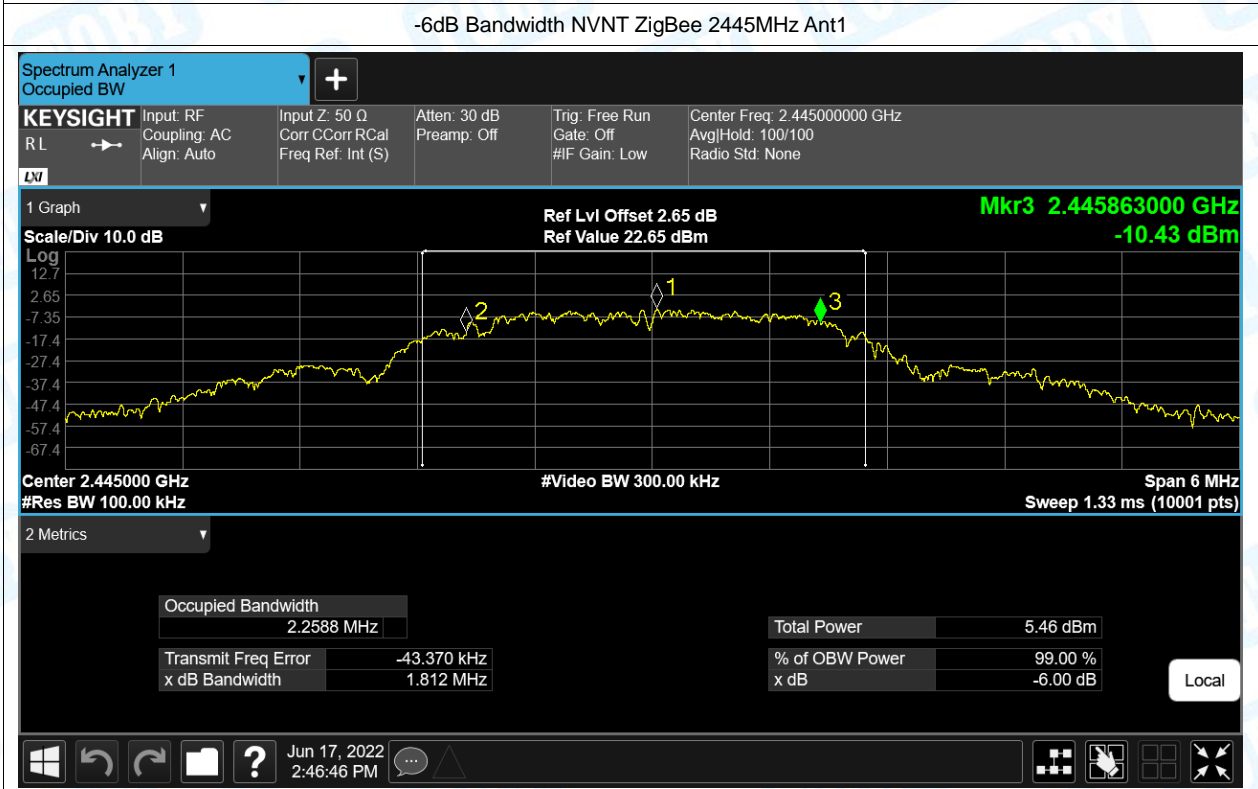
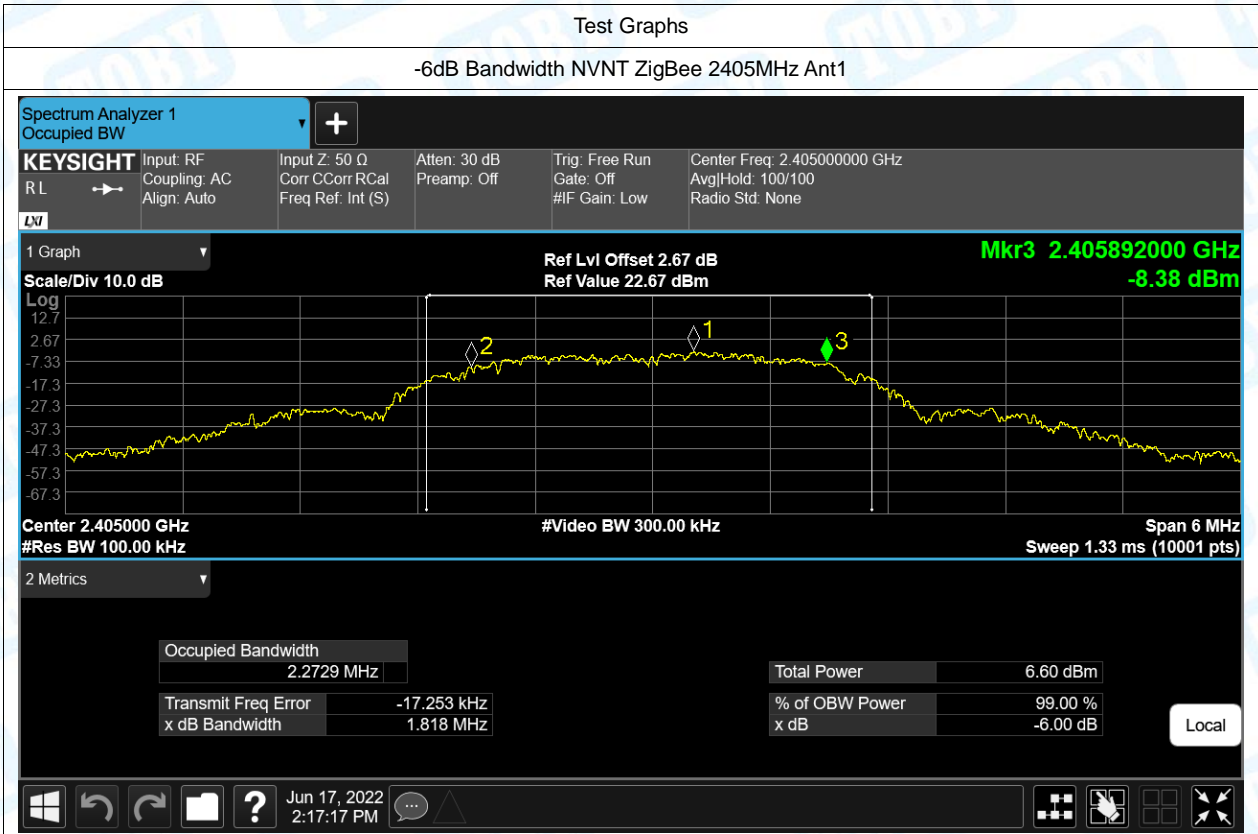
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	ZigBee	2405	Ant1	2.42	30	Pass
NVNT	ZigBee	2445	Ant1	1.86	30	Pass
NVNT	ZigBee	2480	Ant1	1.65	30	Pass

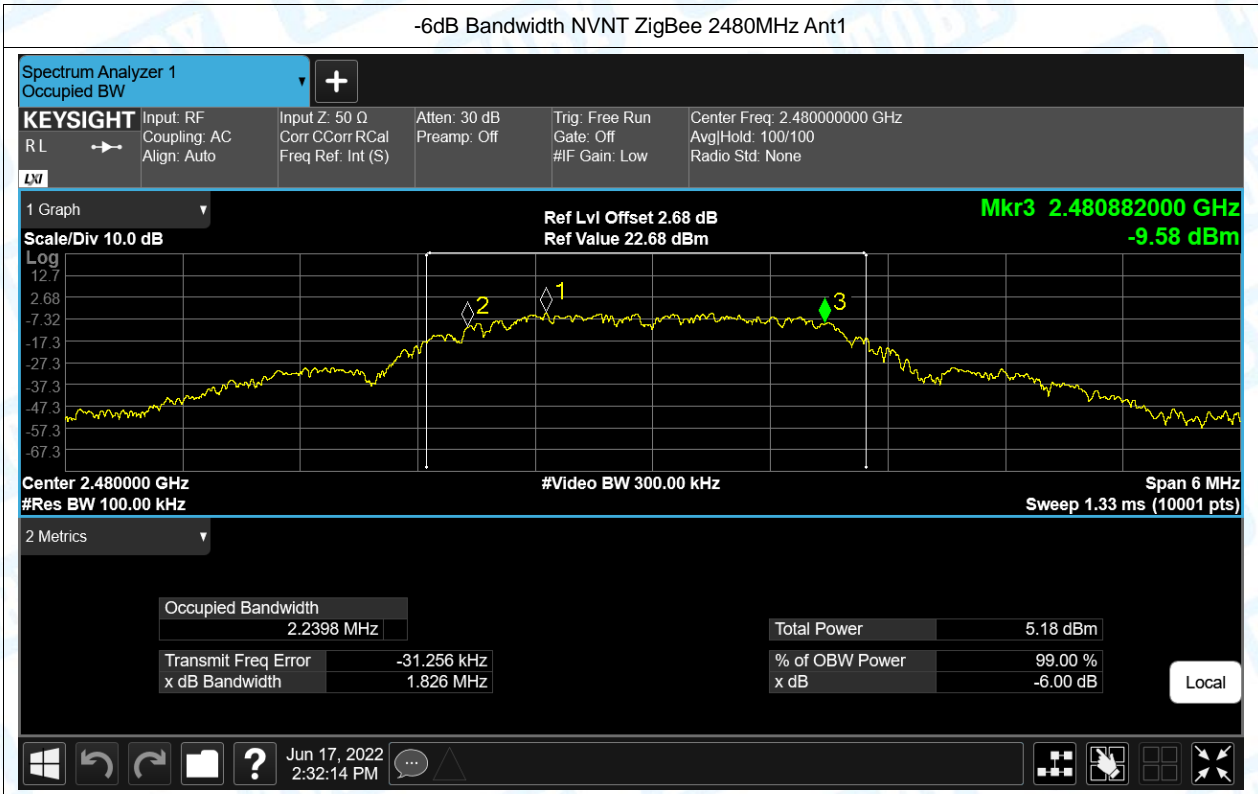




3. -6dB Bandwidth

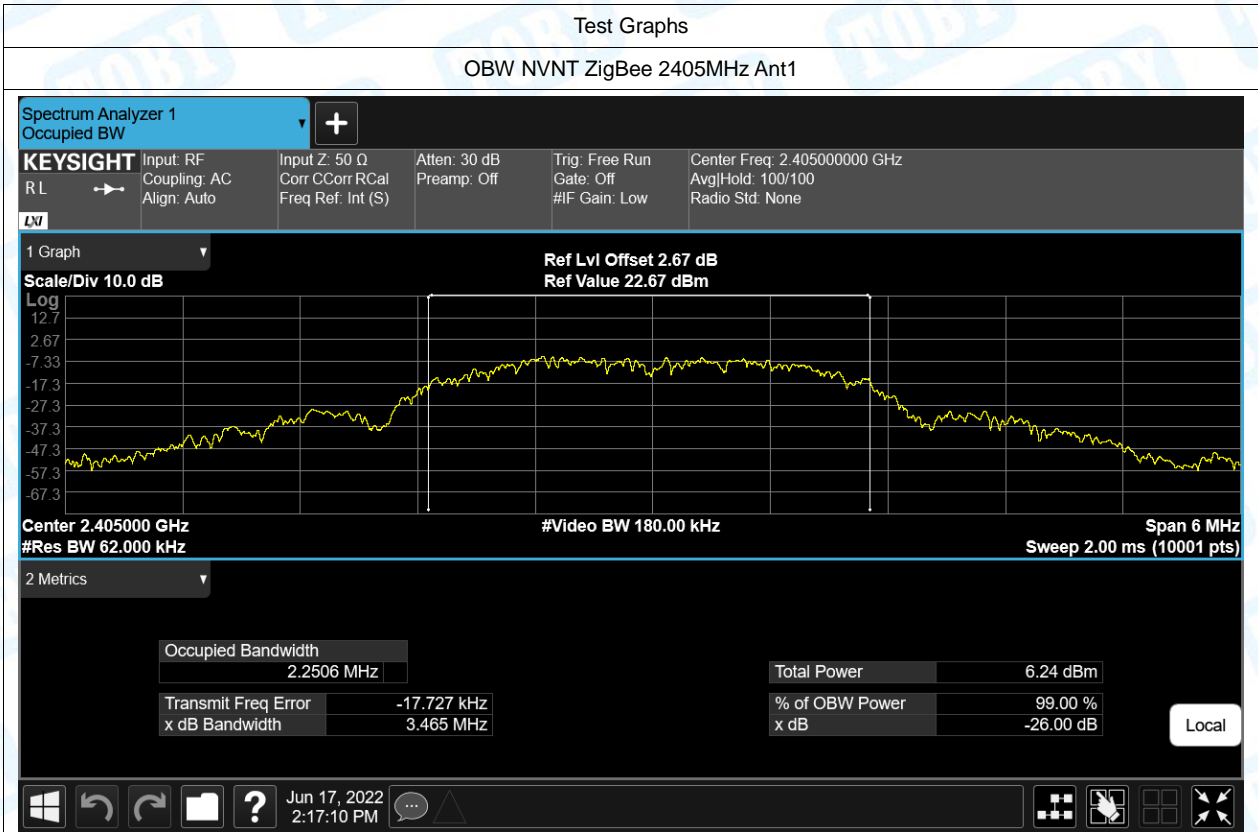
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	ZigBee	2405	Ant1	1.82	0.5	Pass
NVNT	ZigBee	2445	Ant1	1.81	0.5	Pass
NVNT	ZigBee	2480	Ant1	1.83	0.5	Pass

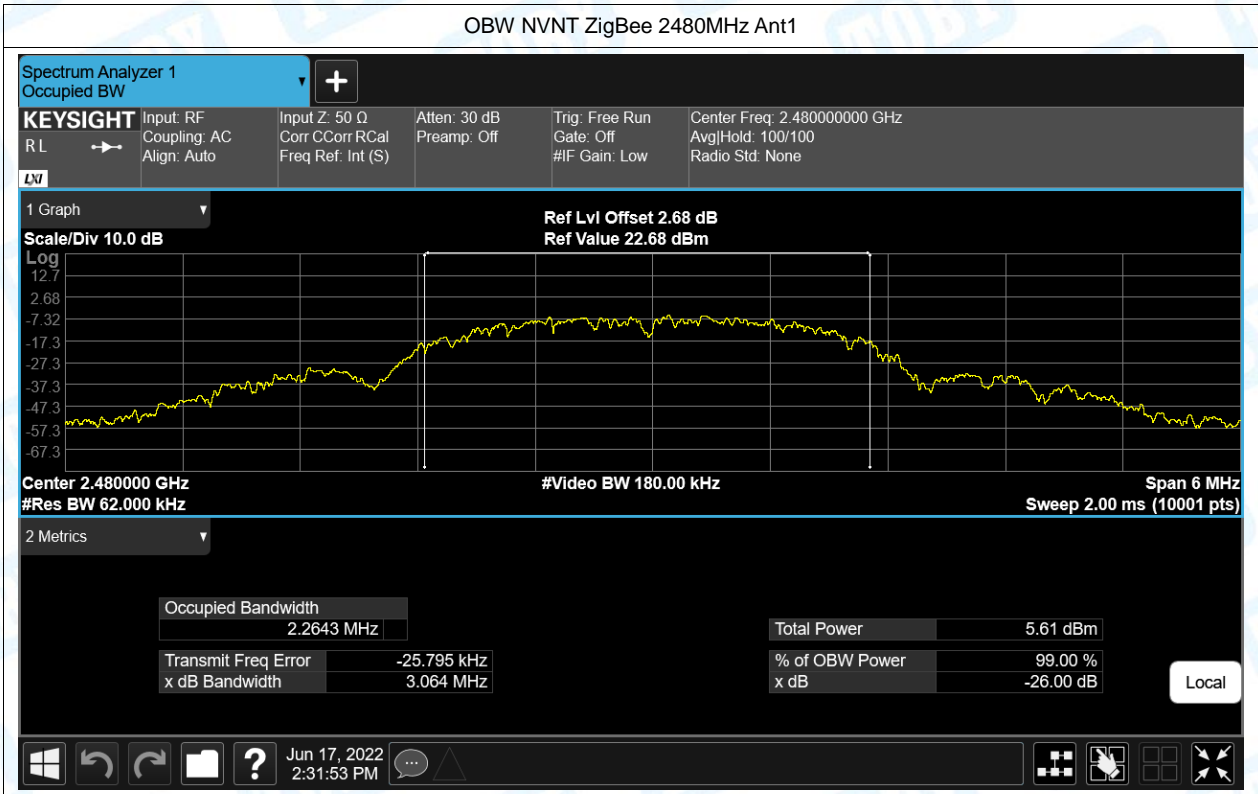




4. Occupied Channel Bandwidth

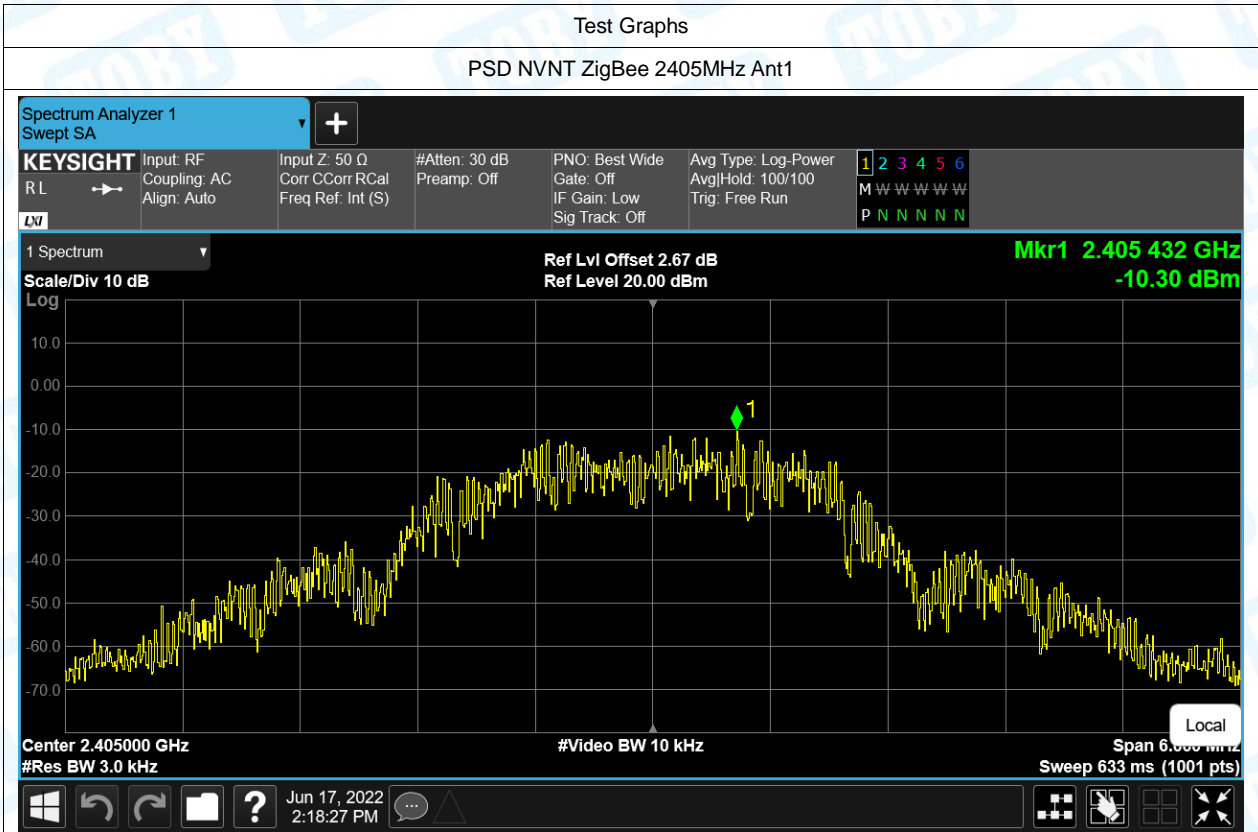
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	ZigBee	2405	Ant1	2.251
NVNT	ZigBee	2445	Ant1	2.247
NVNT	ZigBee	2480	Ant1	2.264

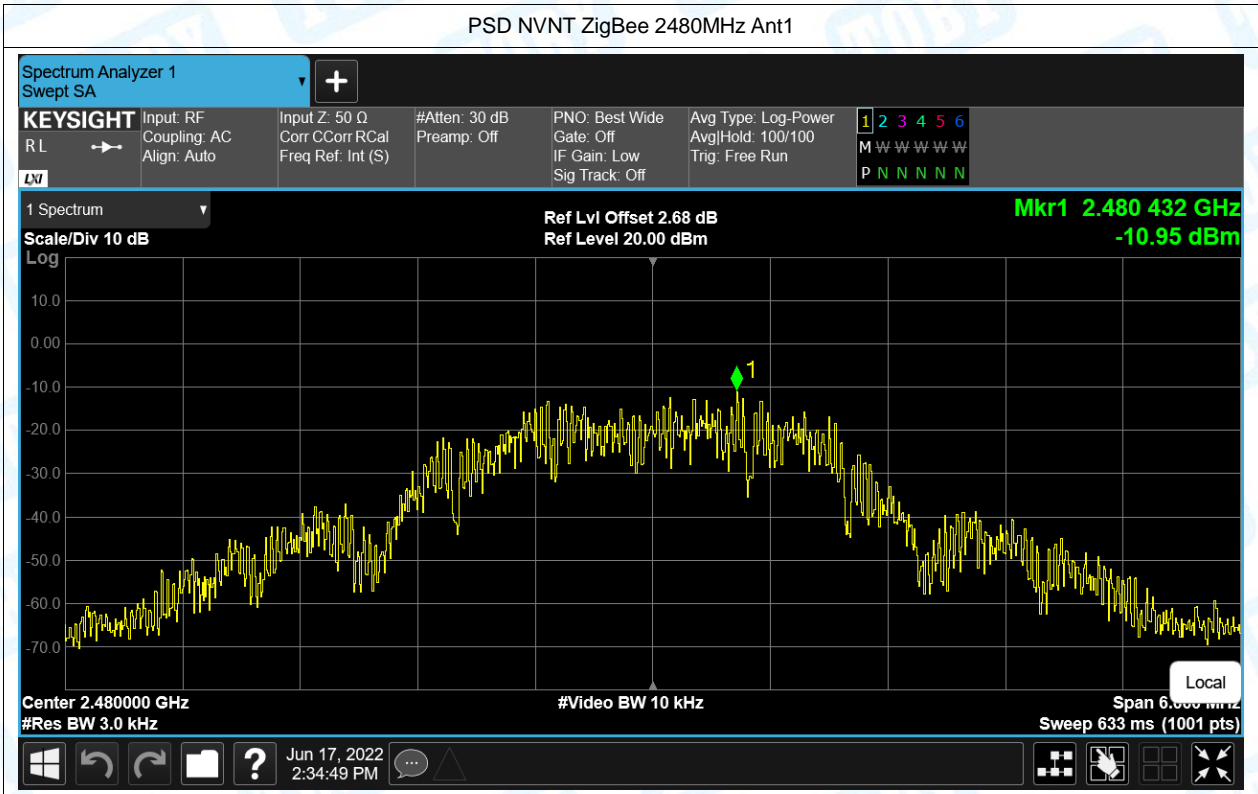




5. Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	ZigBee	2405	Ant1	-10.299	8	Pass
NVNT	ZigBee	2445	Ant1	-10.689	8	Pass
NVNT	ZigBee	2480	Ant1	-10.952	8	Pass



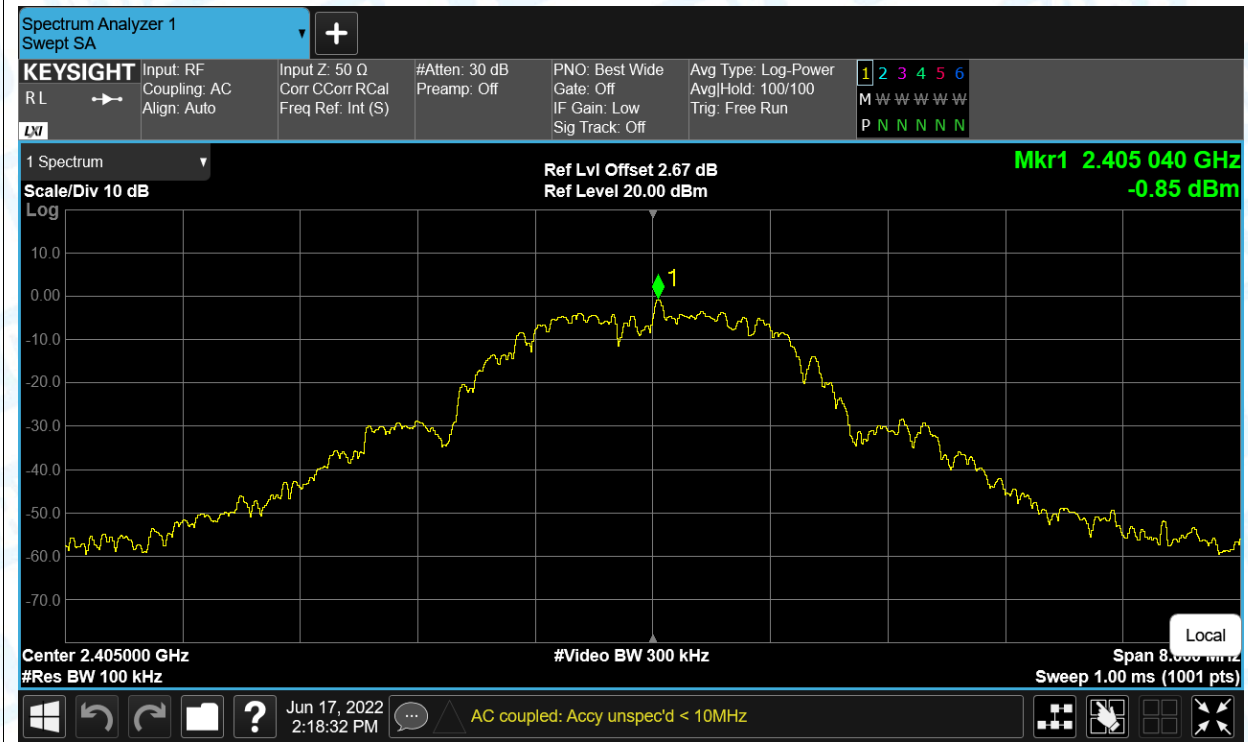


6. Band Edge

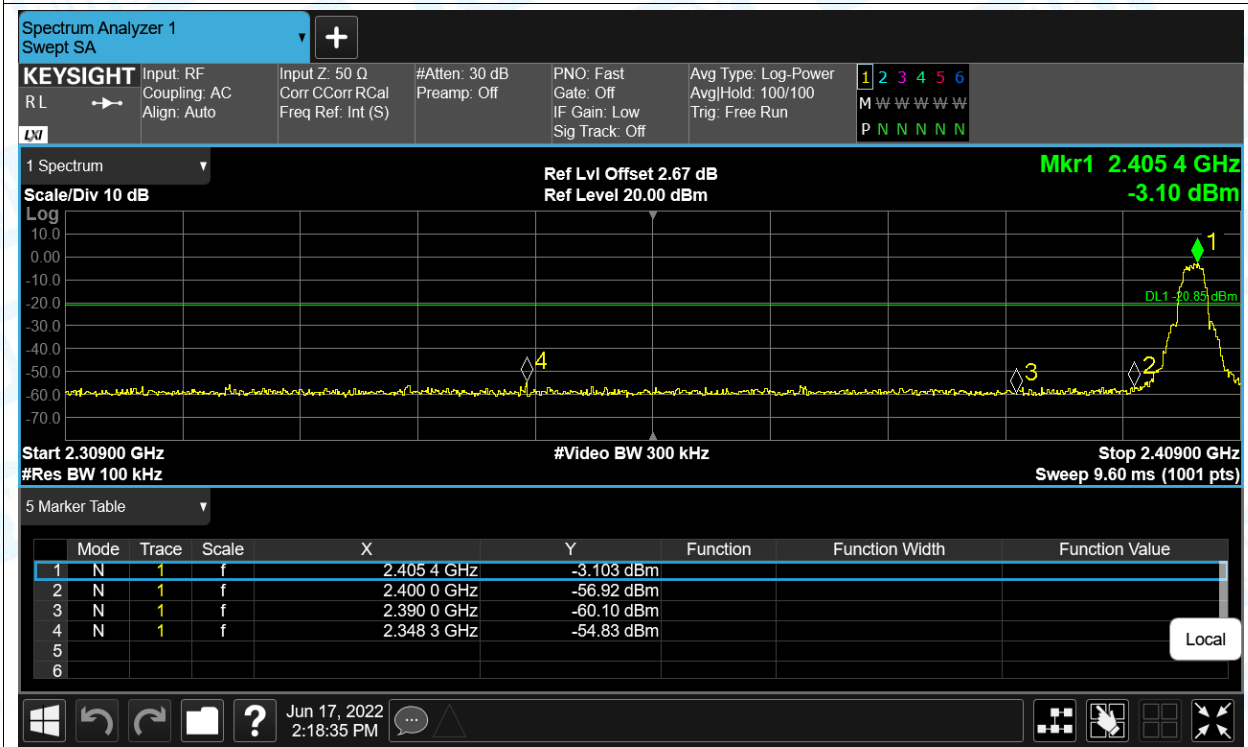
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ZigBee	2405	Ant1	-53.98	-20	Pass
NVNT	ZigBee	2480	Ant1	-54.87	-20	Pass

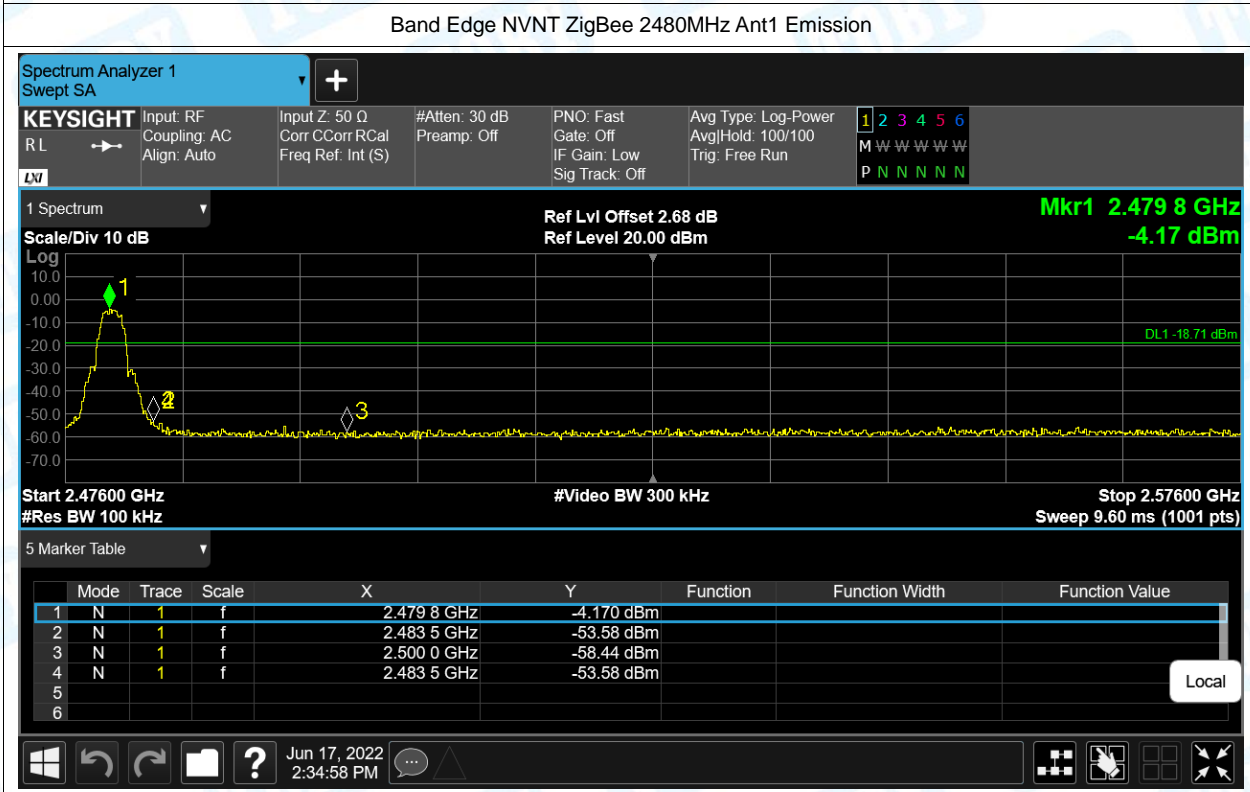
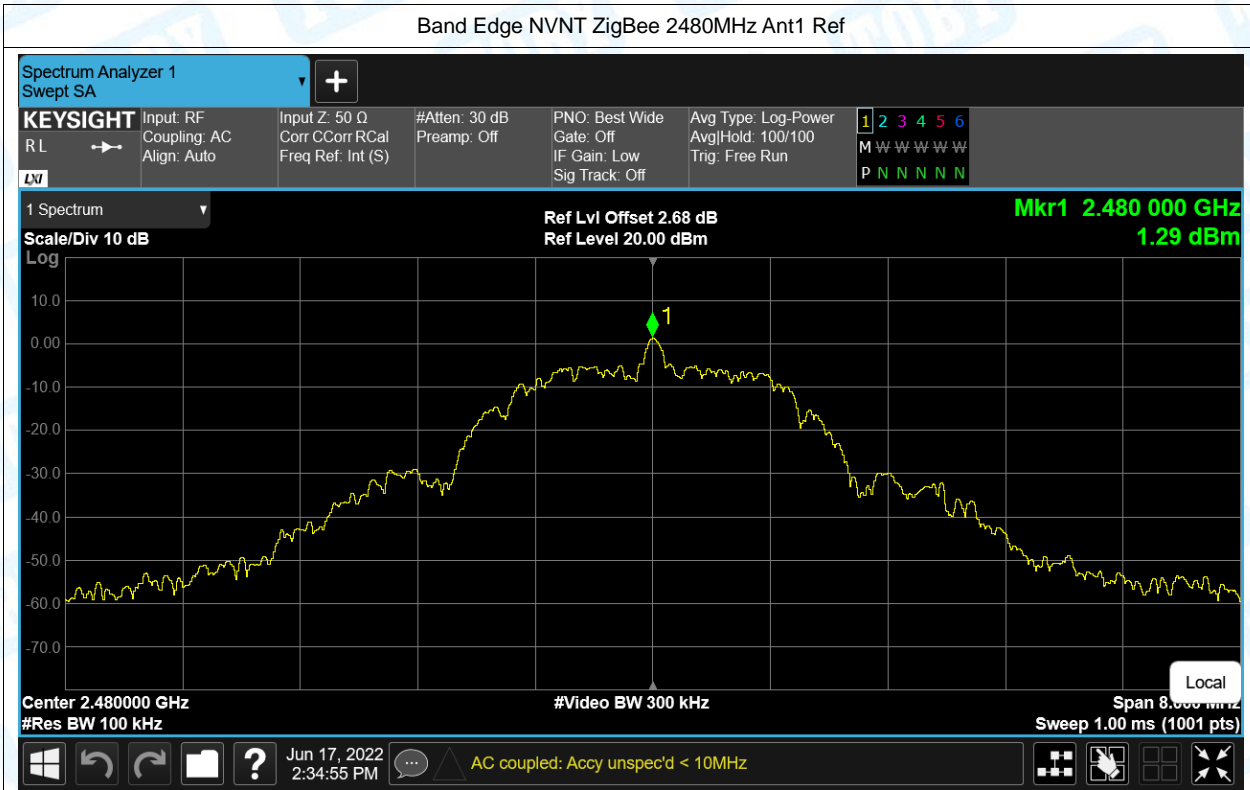
Test Graphs

Band Edge NVNT ZigBee 2405MHz Ant1 Ref



Band Edge NVNT ZigBee 2405MHz Ant1 Emission



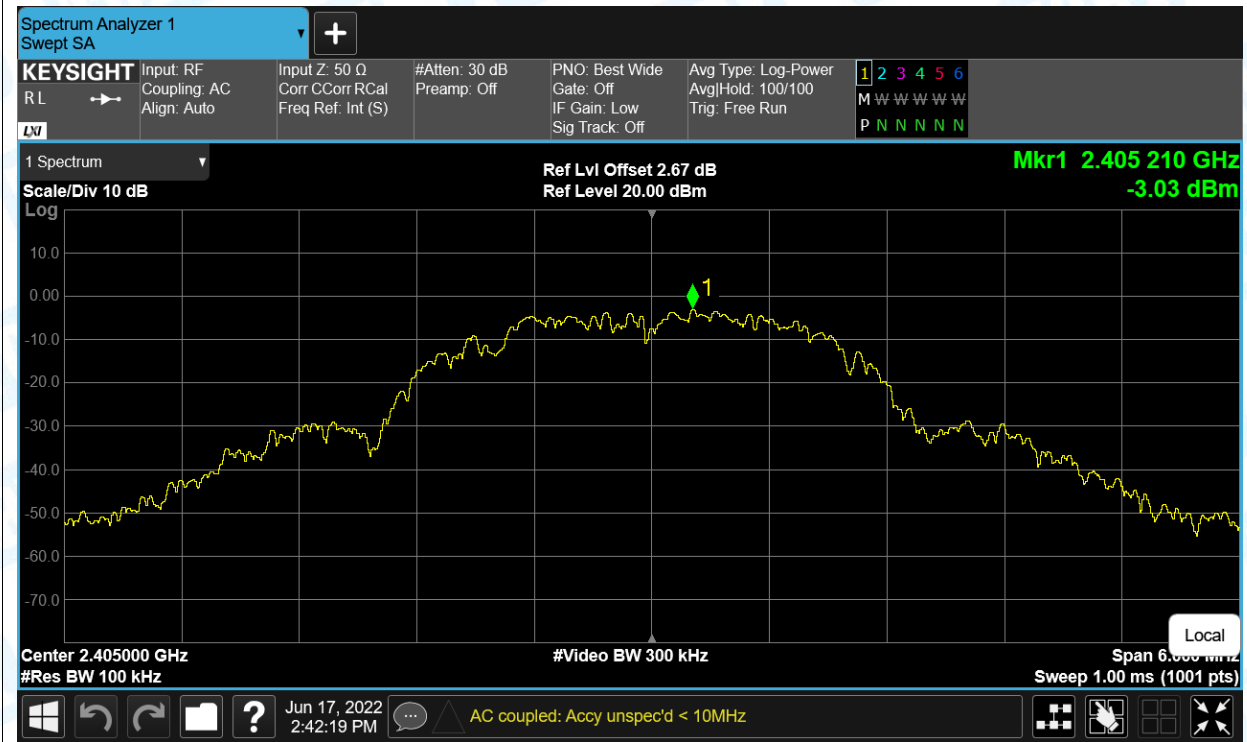


7. Conducted RF Spurious Emission

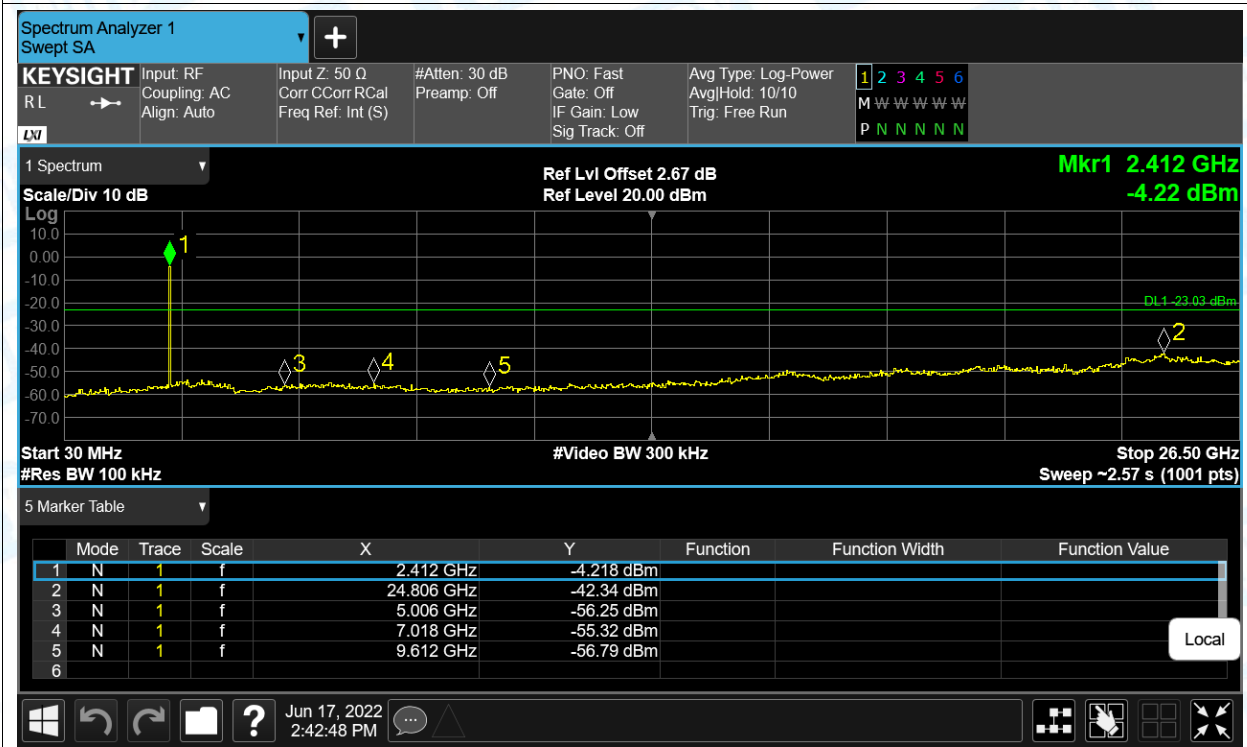
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	ZigBee	2405	Ant1	-39.31	-20	Pass
NVNT	ZigBee	2445	Ant1	-39.22	-20	Pass
NVNT	ZigBee	2480	Ant1	-37.6	-20	Pass

Test Graphs

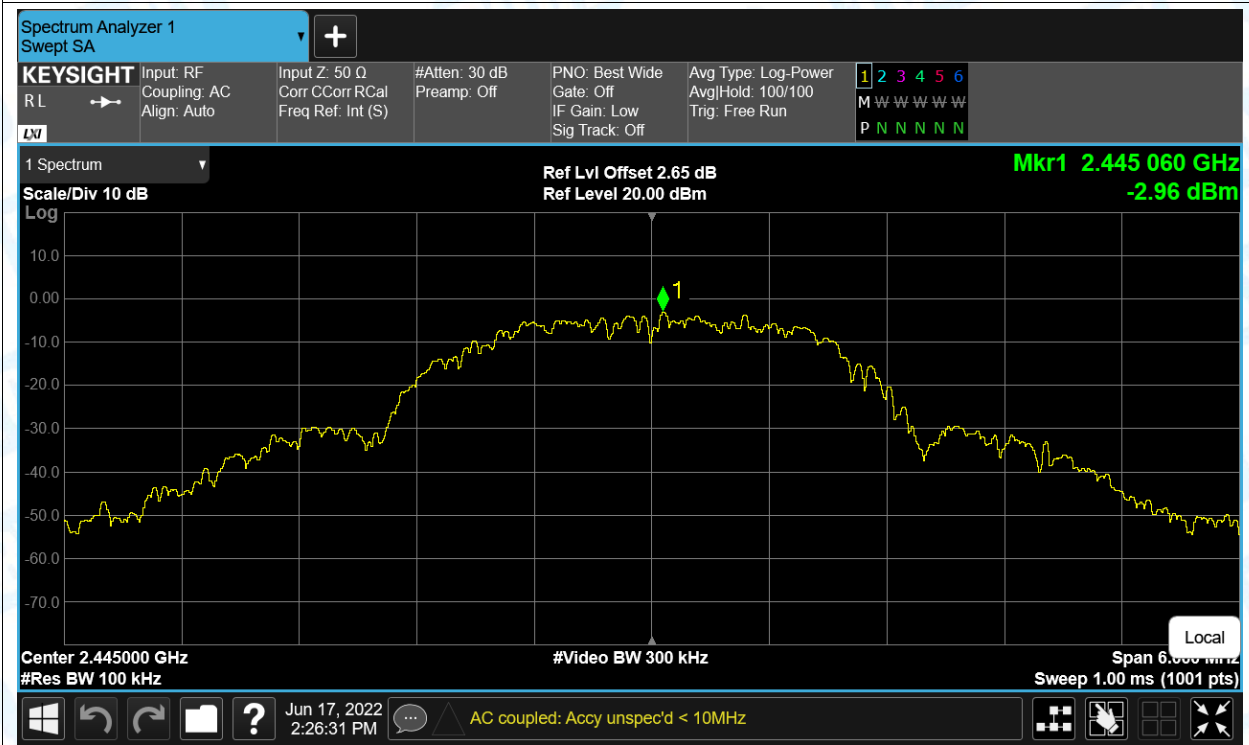
Tx. Spurious NVNT ZigBee 2405MHz Ant1 Ref



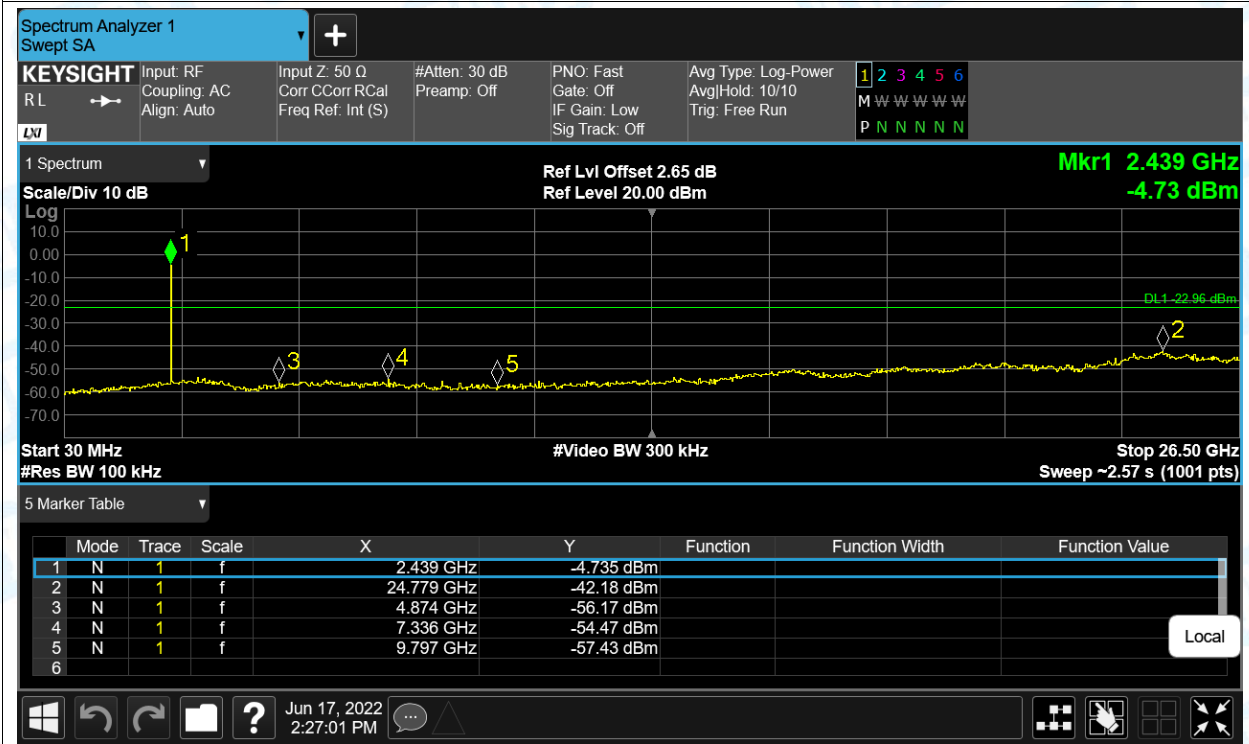
Tx. Spurious NVNT ZigBee 2405MHz Ant1 Emission



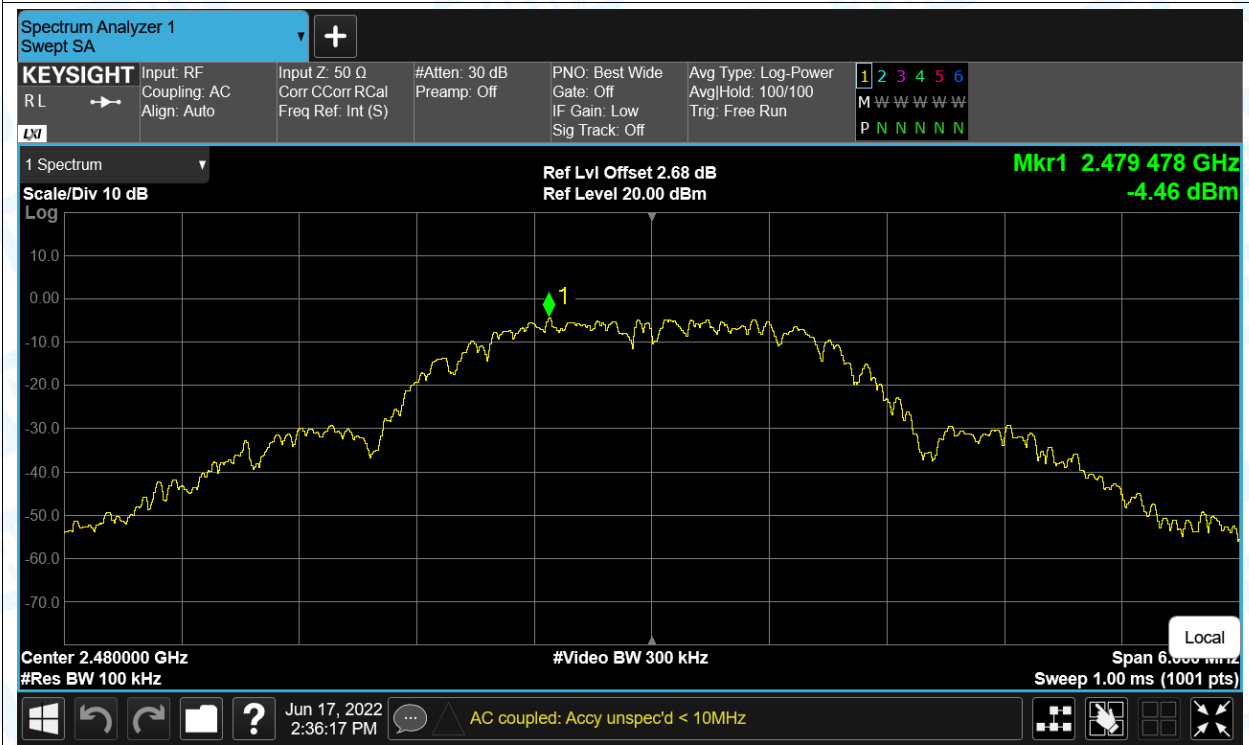
Tx. Spurious NVNT ZigBee 2445MHz Ant1 Ref



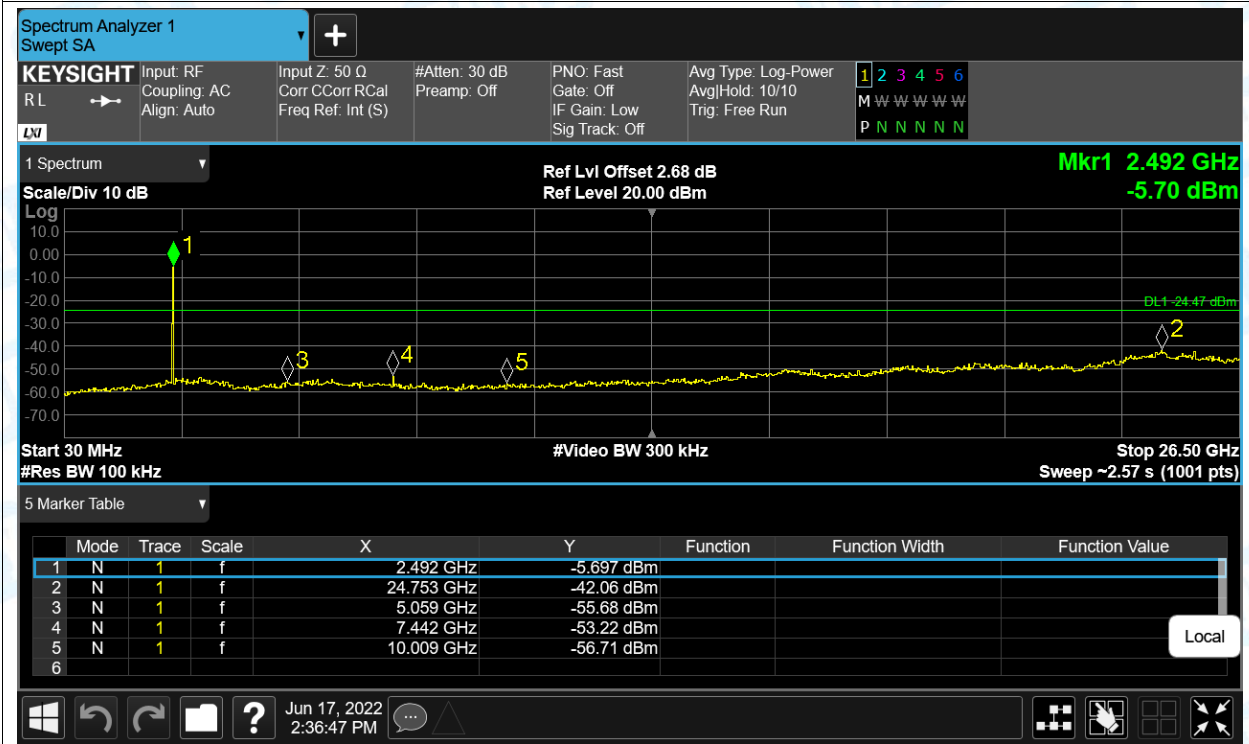
Tx. Spurious NVNT ZigBee 2445MHz Ant1 Emission



Tx. Spurious NVNT ZigBee 2480MHz Ant1 Ref



Tx. Spurious NVNT ZigBee 2480MHz Ant1 Emission

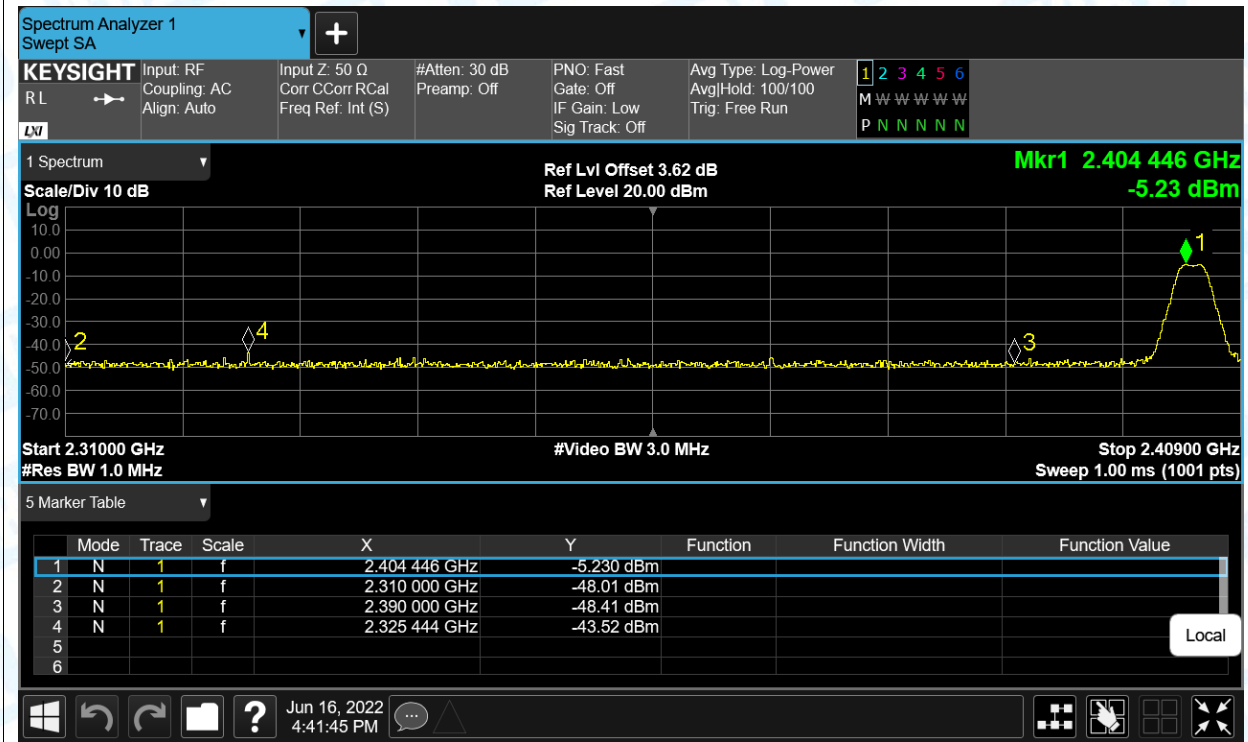


8. Restrict Band

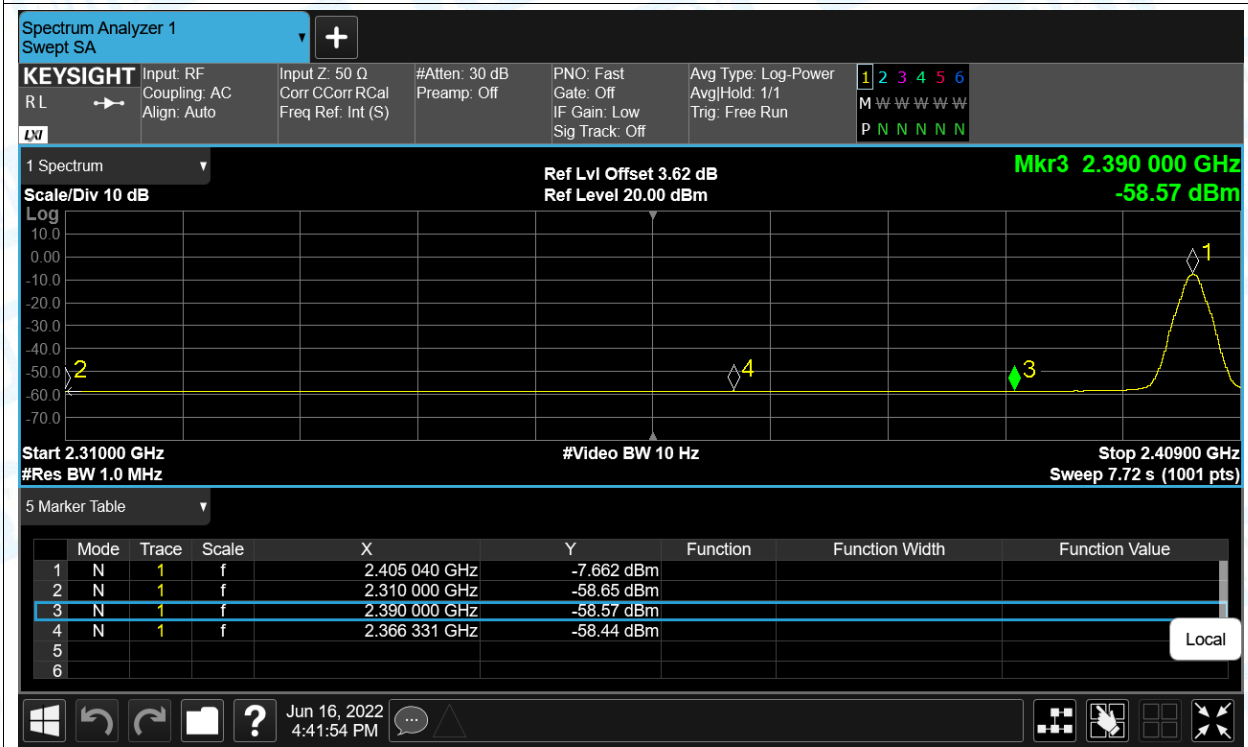
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	ZigBee	2405	Ant1	2310	-48.01	2	49.25	Peak	74	Pass
NVNT	ZigBee	2405	Ant1	2310	-58.65	2	38.61	Average	54	Pass
NVNT	ZigBee	2405	Ant1	2325.444	-43.52	2	53.74	Peak	74	Pass
NVNT	ZigBee	2405	Ant1	2366.331	-58.44	2	38.82	Average	54	Pass
NVNT	ZigBee	2405	Ant1	2390	-47.73	2	49.53	Peak	74	Pass
NVNT	ZigBee	2405	Ant1	2390	-58.58	2	38.68	Average	54	Pass
NVNT	ZigBee	2480	Ant1	2483.5	-45.19	2	52.07	Peak	74	Pass
NVNT	ZigBee	2480	Ant1	2483.5	-55.32	2	41.94	Average	54	Pass
NVNT	ZigBee	2480	Ant1	2494.024	-44.77	2	52.49	Peak	74	Pass
NVNT	ZigBee	2480	Ant1	2483.512	-55.32	2	41.94	Average	54	Pass
NVNT	ZigBee	2480	Ant1	2500	-49.52	2	47.74	Peak	74	Pass
NVNT	ZigBee	2480	Ant1	2500	-58.36	2	38.9	Average	54	Pass

Test Graphs

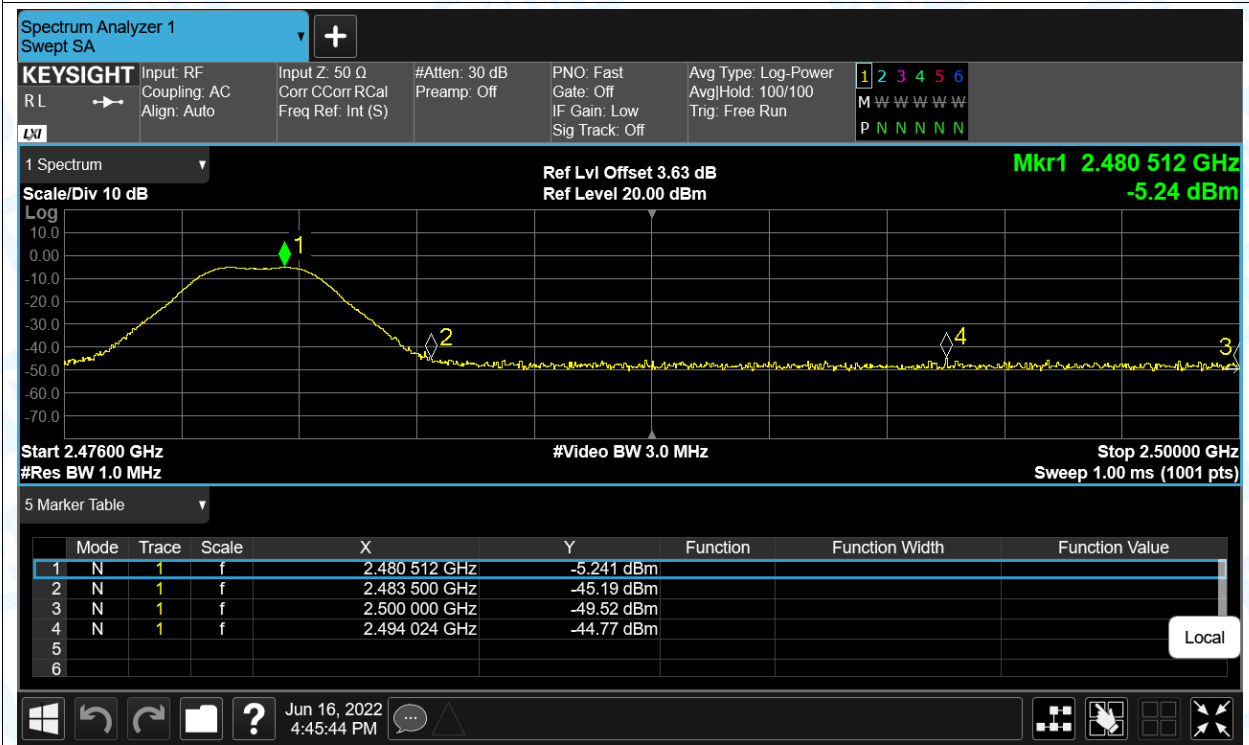
Restrict Band NVNT ZigBee 2405MHz Ant1 Peak



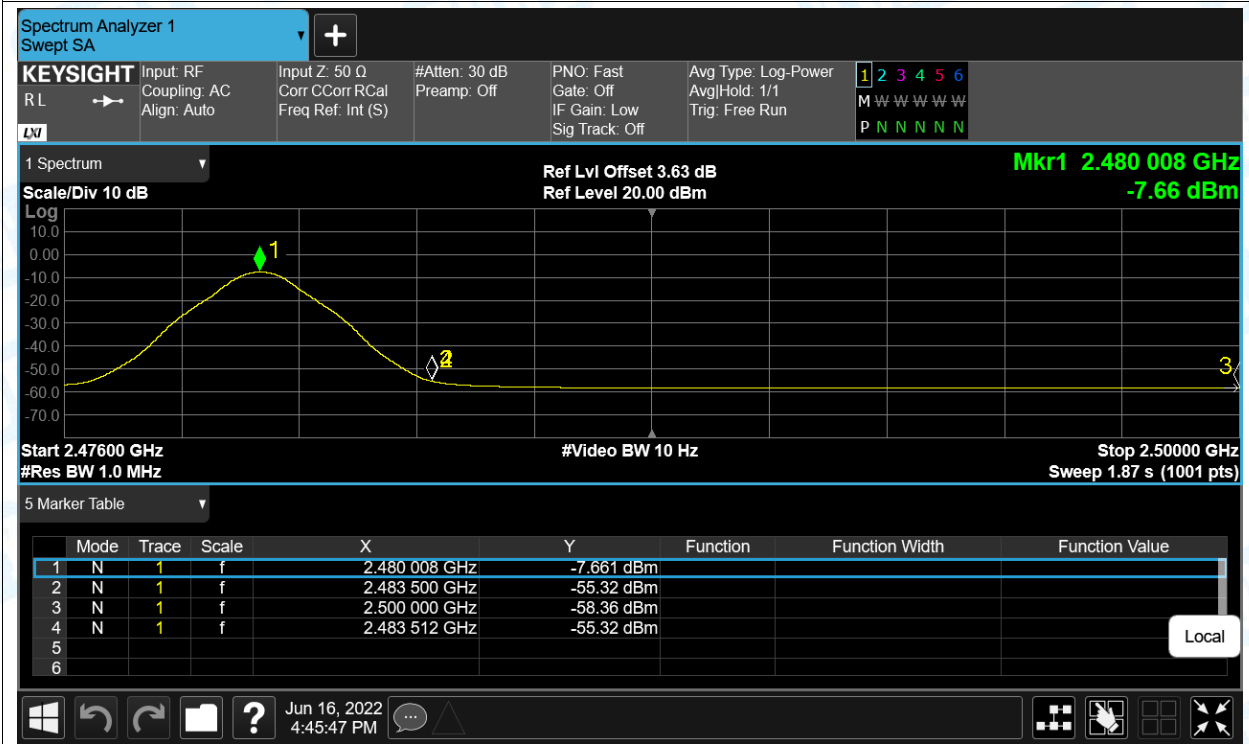
Restrict Band NVNT ZigBee 2405MHz Ant1 Average



Restrict Band NVNT ZigBee 2480MHz Ant1 Peak



Restrict Band NVNT ZigBee 2480MHz Ant1 Average



-----End of the report-----