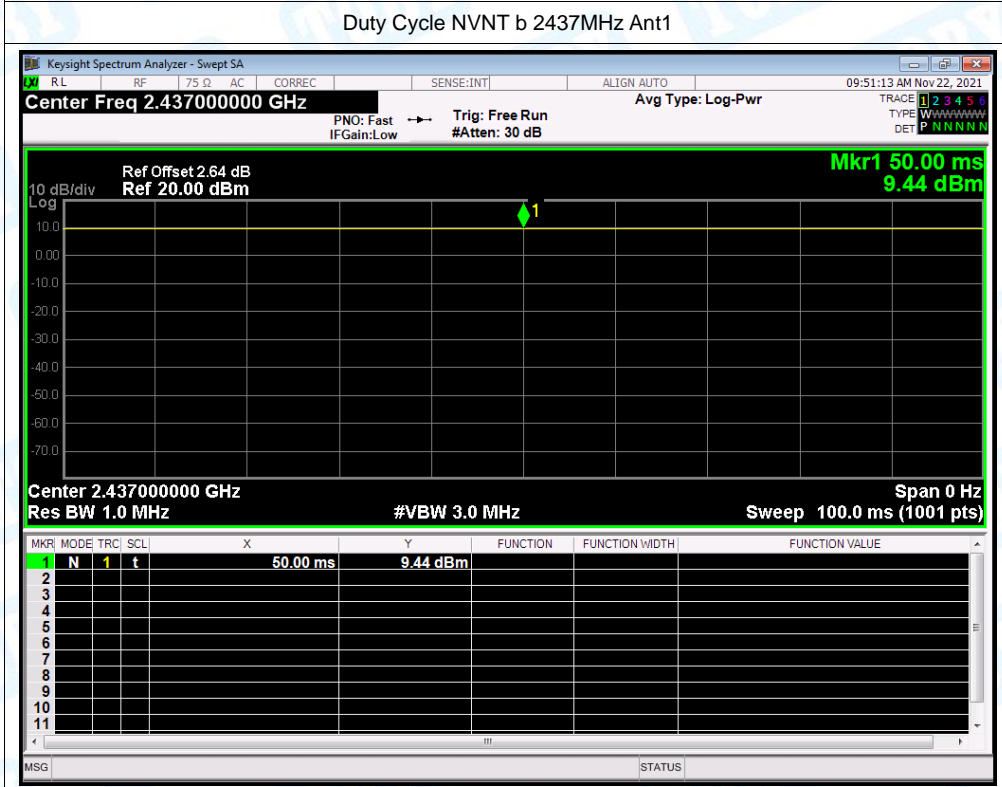
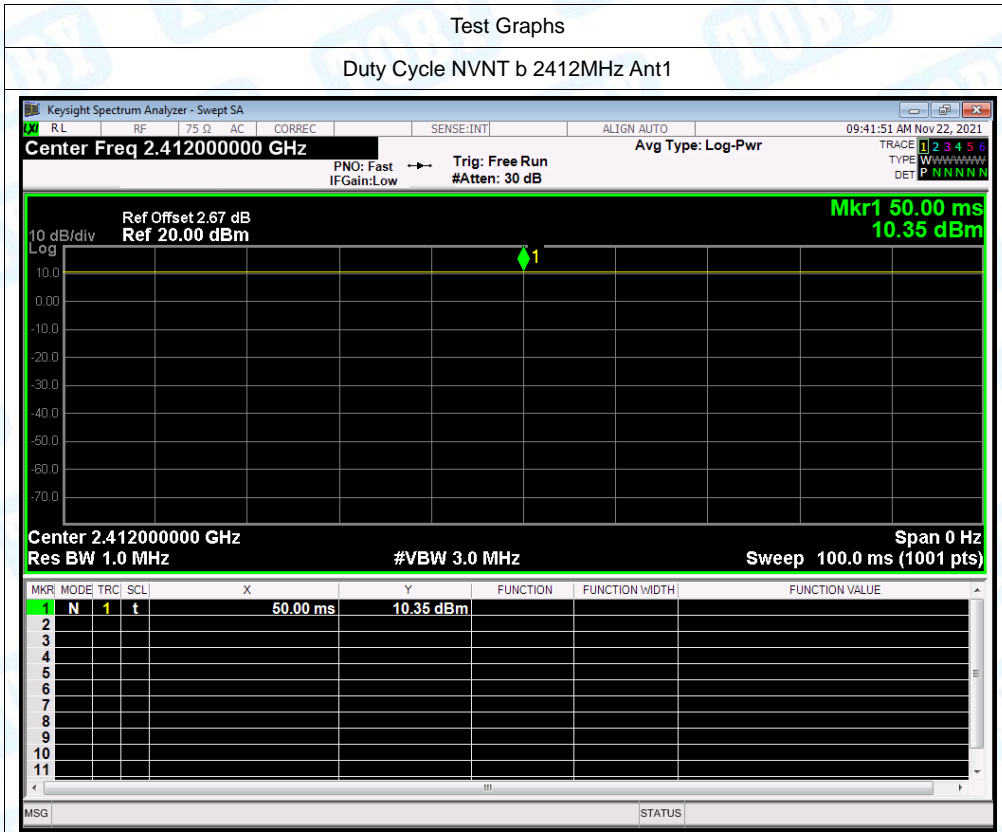


# RF Test Data for 2.4G WiFi (Conducted Measurements)

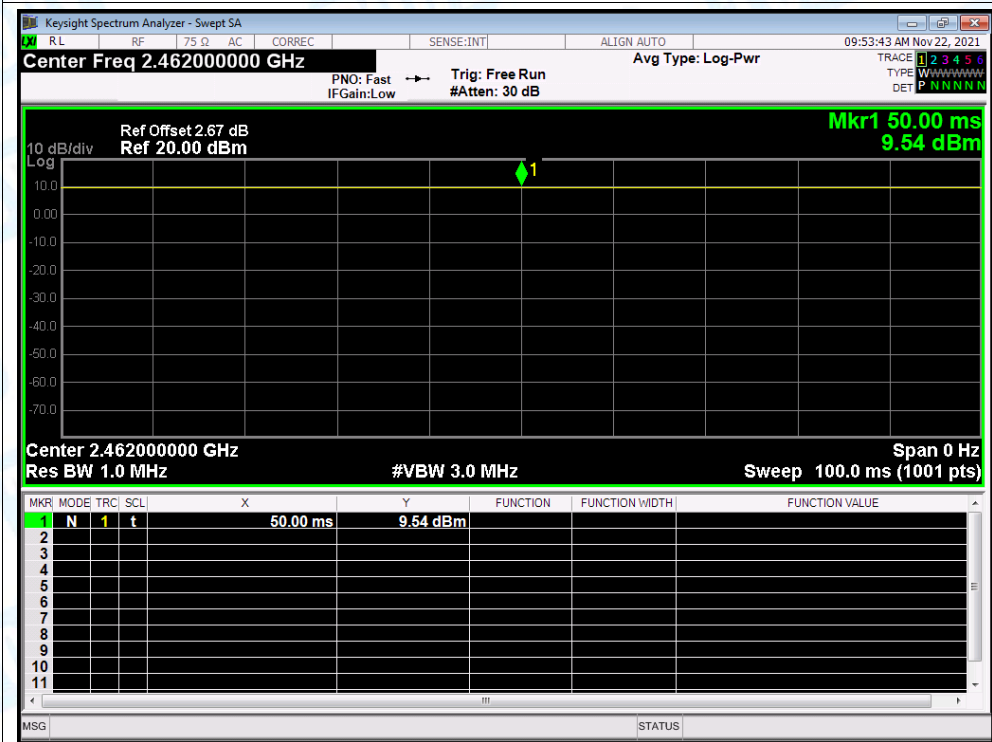
General Description of EUT	
<b>Product Name:</b>	Wireless Camera
<b>Test Model:</b>	CA544
<b>Sample ID:</b>	20211014-10-2#
Environmental Conditions	
<b>Temperature:</b>	24°C
<b>Relative Humidity:</b>	50%
<b>Test Voltage:</b>	DC 5V
<b>Test Engineer:</b>	Hejingchang
Note: For a more detailed features description, please refer to the report TB-RF184778	

## 1. Duty Cycle

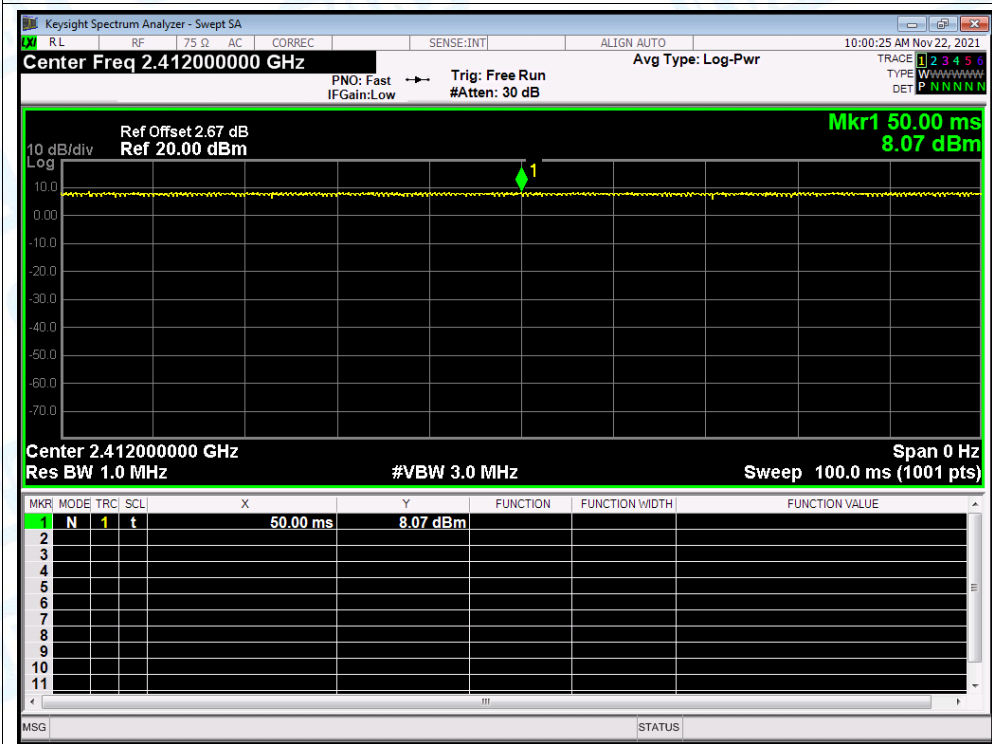
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0



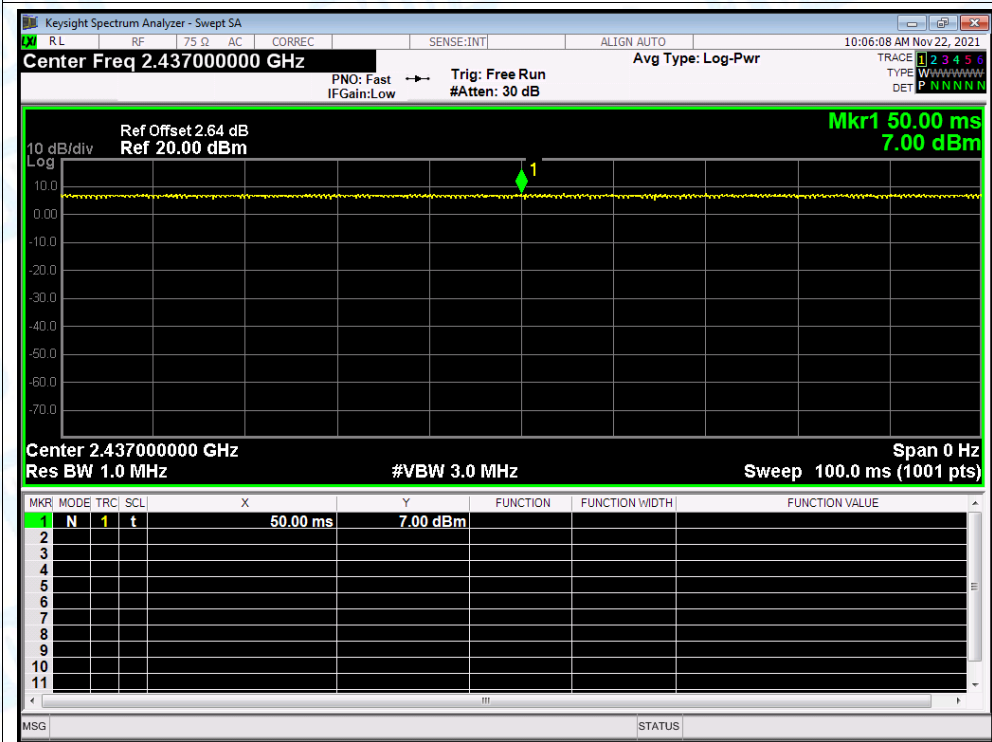
### Duty Cycle NVNT b 2462MHz Ant1



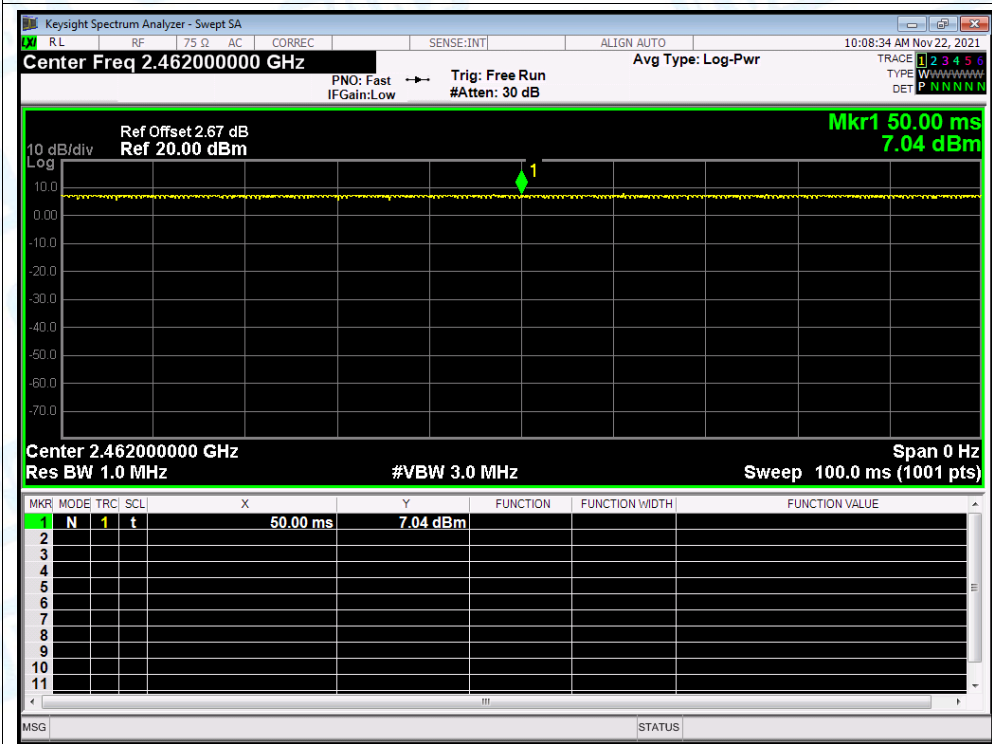
### Duty Cycle NVNT g 2412MHz Ant1



### Duty Cycle NVNT g 2437MHz Ant1



### Duty Cycle NVNT g 2462MHz Ant1

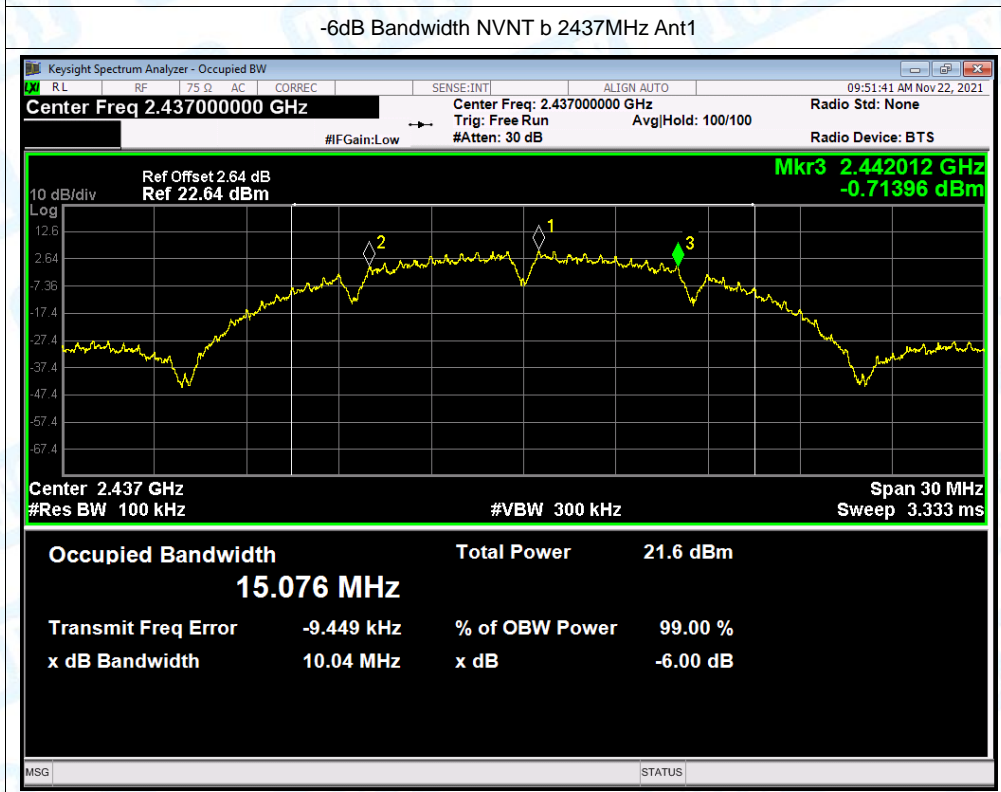
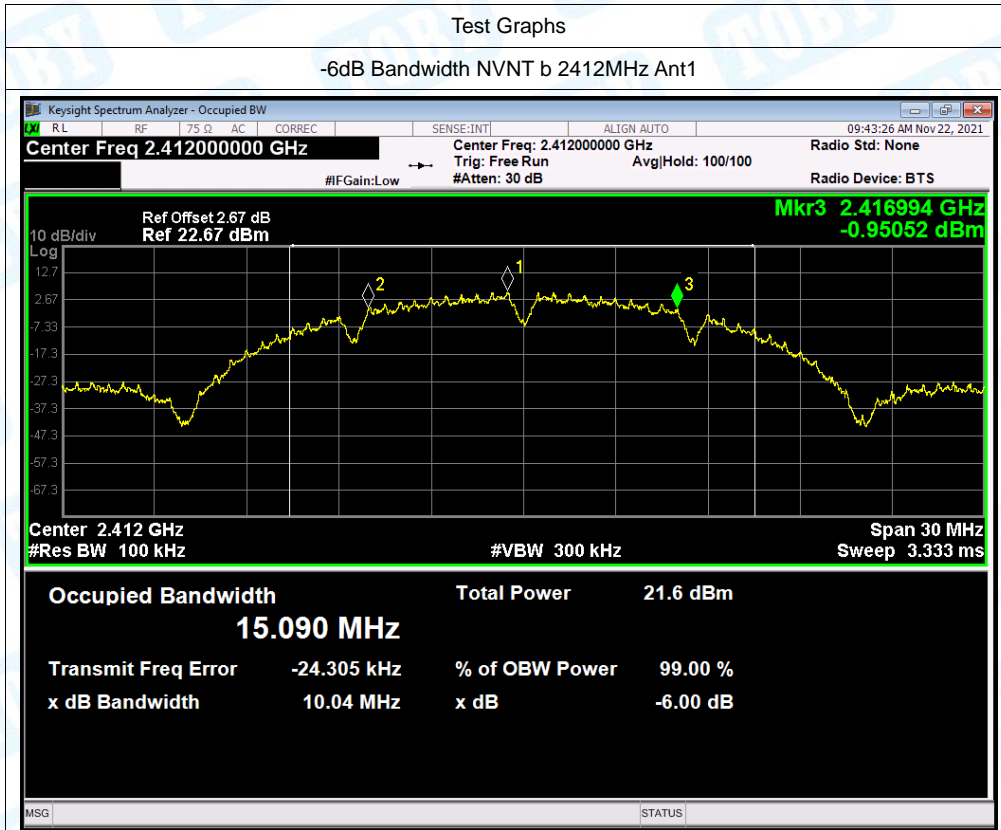


## 2.Maximum Conducted Output Power

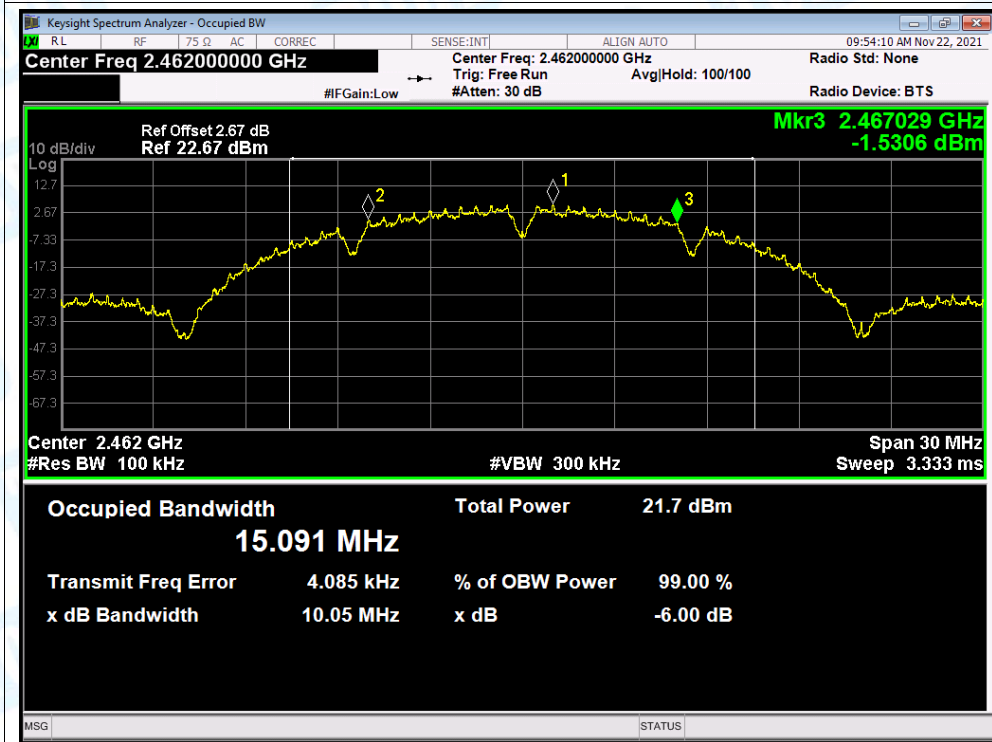
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.679	0	16.679	30	Pass
NVNT	b	2437	Ant1	16.698	0	16.698	30	Pass
NVNT	b	2462	Ant1	16.794	0	16.794	30	Pass
NVNT	g	2412	Ant1	17.539	0	17.539	30	Pass
NVNT	g	2437	Ant1	17.482	0	17.482	30	Pass
NVNT	g	2462	Ant1	17.713	0	17.713	30	Pass

### 3.-6dB Bandwidth

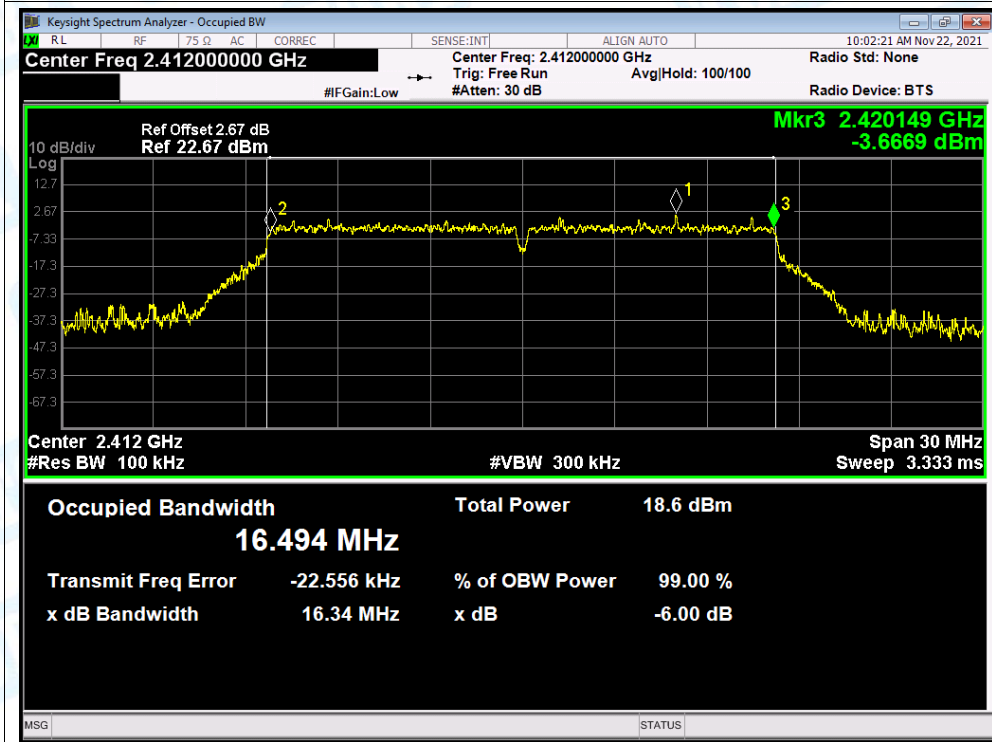
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.04	0.5	Pass
NVNT	b	2437	Ant1	10.04	0.5	Pass
NVNT	b	2462	Ant1	10.05	0.5	Pass
NVNT	g	2412	Ant1	16.34	0.5	Pass
NVNT	g	2437	Ant1	16.34	0.5	Pass
NVNT	g	2462	Ant1	16.34	0.5	Pass



-6dB Bandwidth NVNT b 2462MHz Ant1

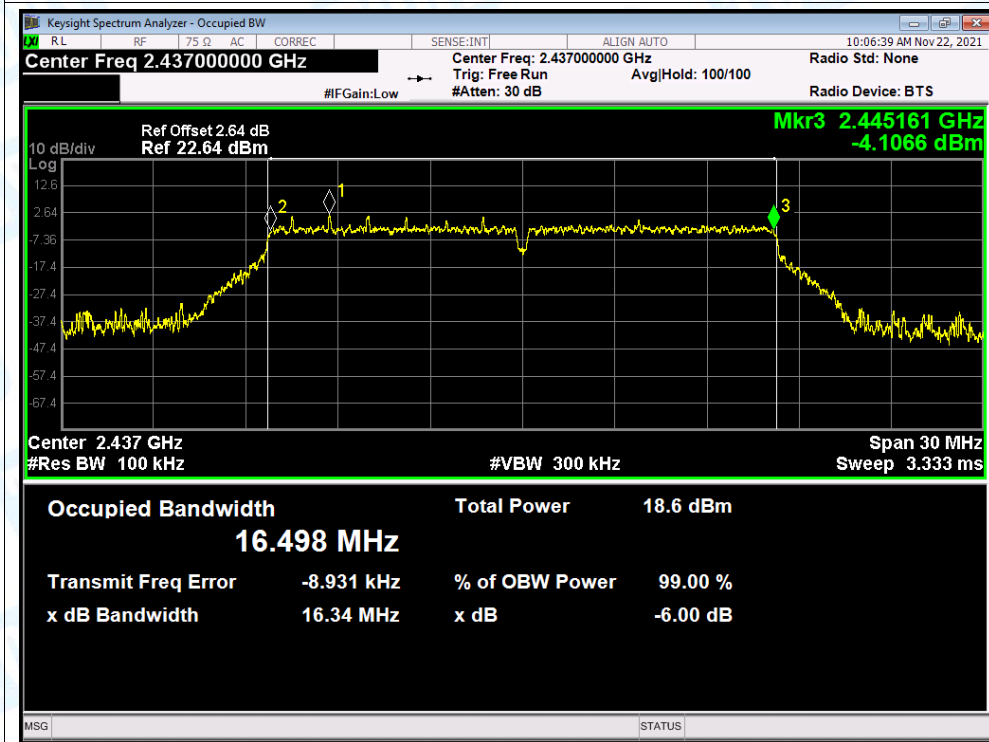


-6dB Bandwidth NVNT g 2412MHz Ant1

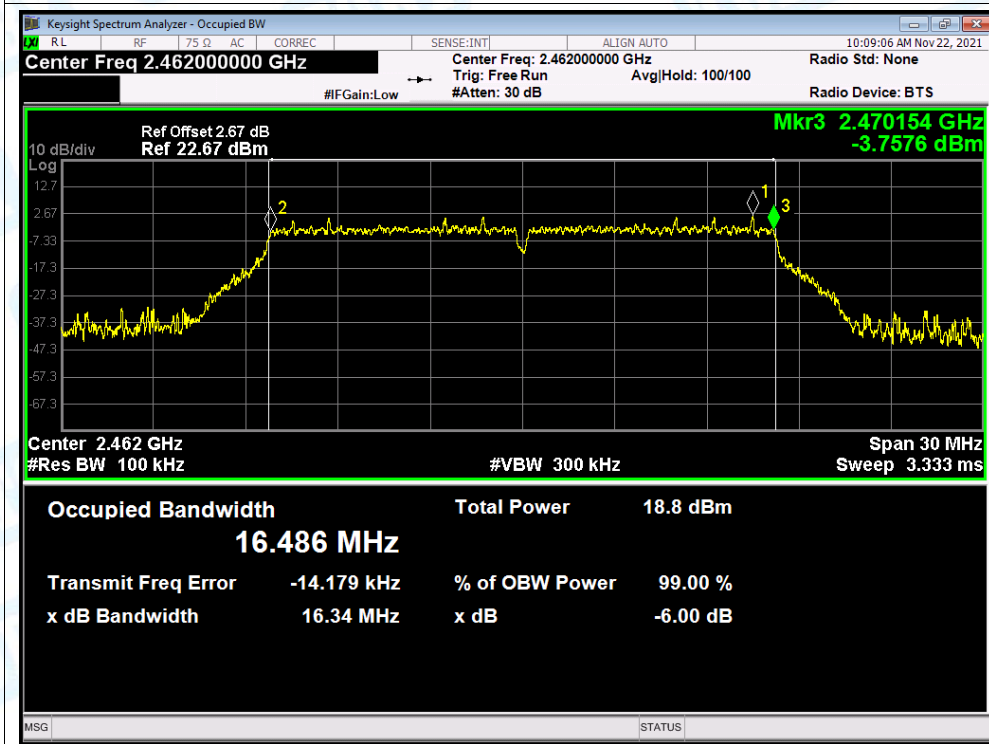




-6dB Bandwidth NVNT g 2437MHz Ant1

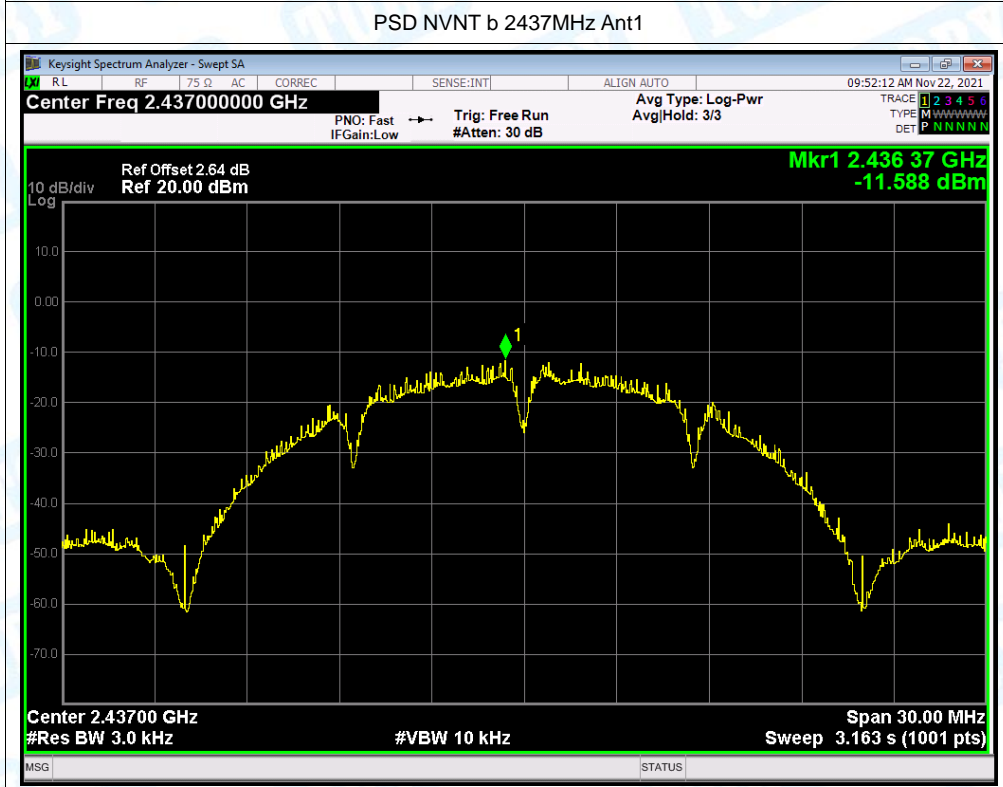
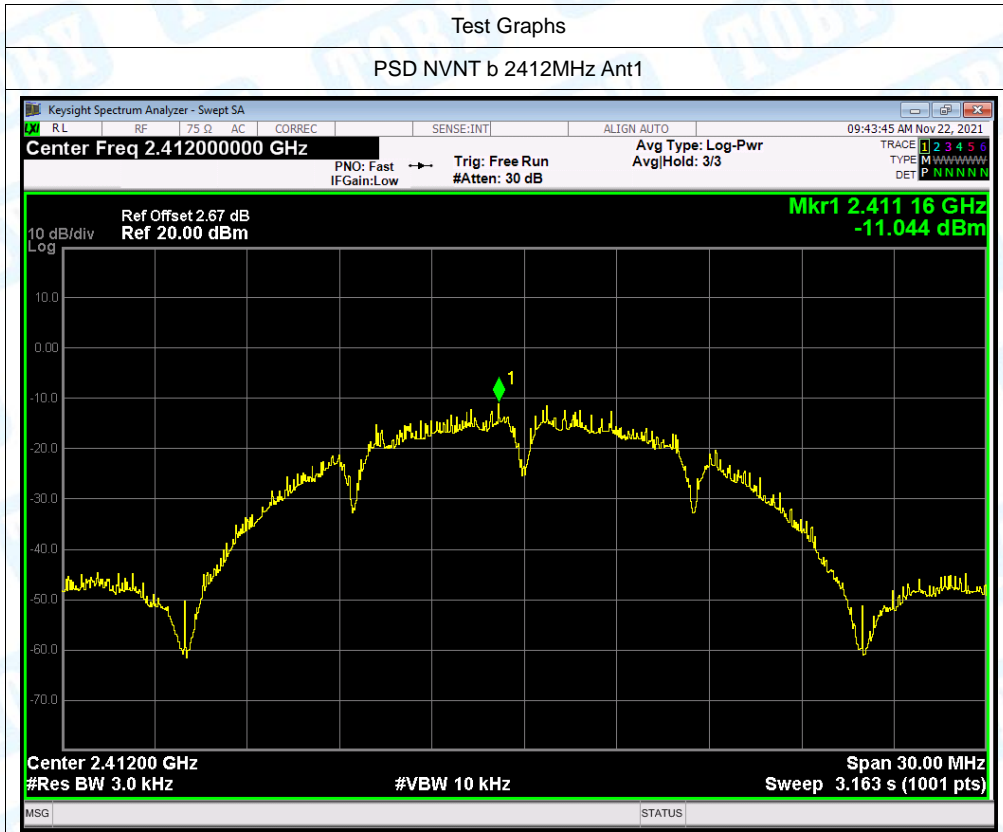


-6dB Bandwidth NVNT g 2462MHz Ant1

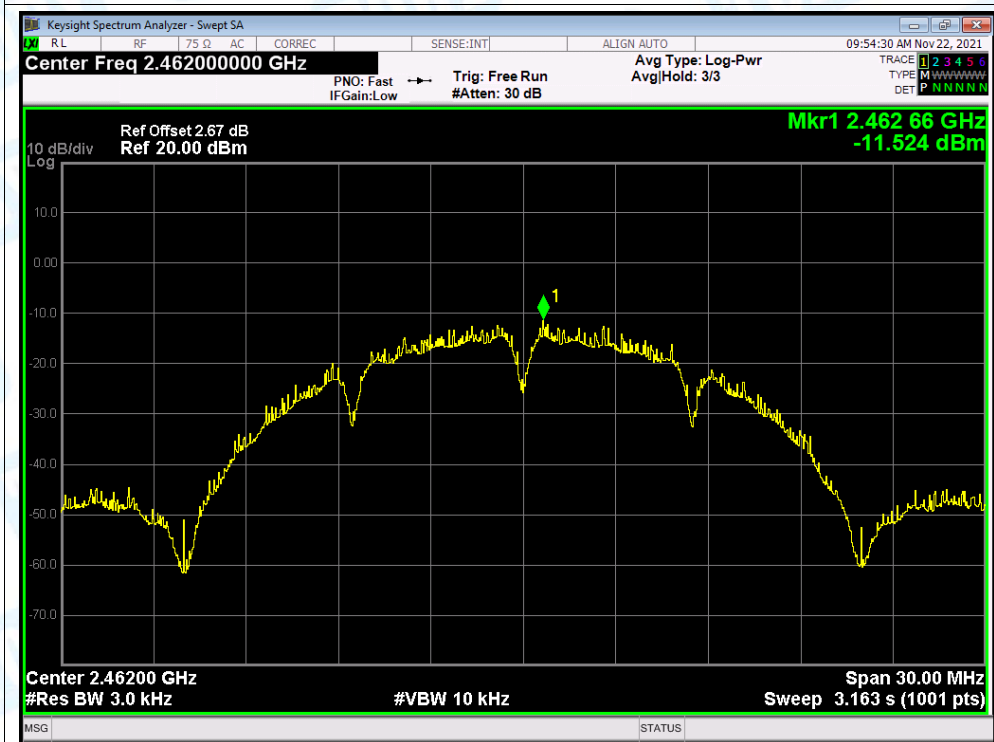


## 4. Maximum Power Spectral Density Level

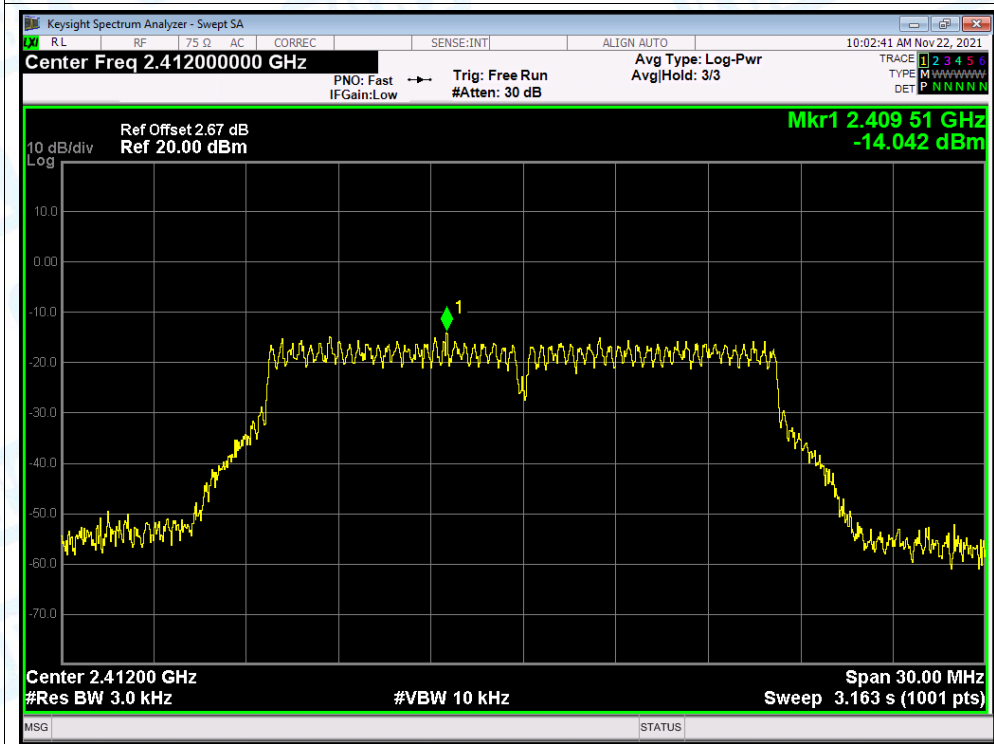
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-11.044	8	Pass
NVNT	b	2437	Ant1	-11.588	8	Pass
NVNT	b	2462	Ant1	-11.524	8	Pass
NVNT	g	2412	Ant1	-14.042	8	Pass
NVNT	g	2437	Ant1	-13.112	8	Pass
NVNT	g	2462	Ant1	-14.807	8	Pass



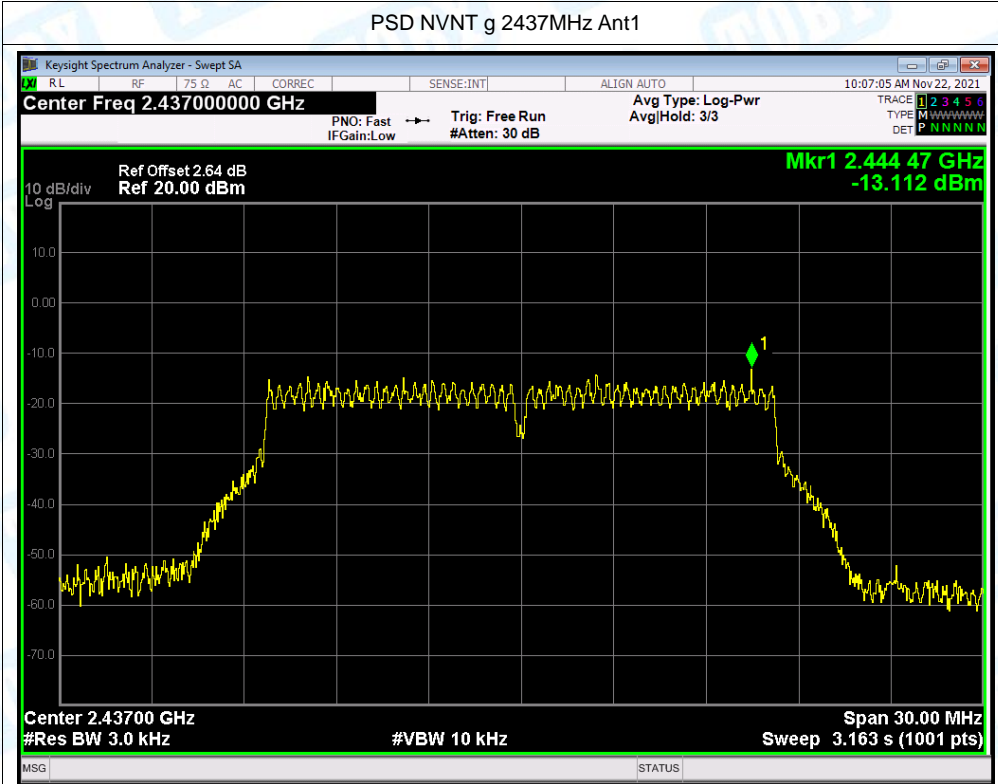
PSD NVNT b 2462MHz Ant1



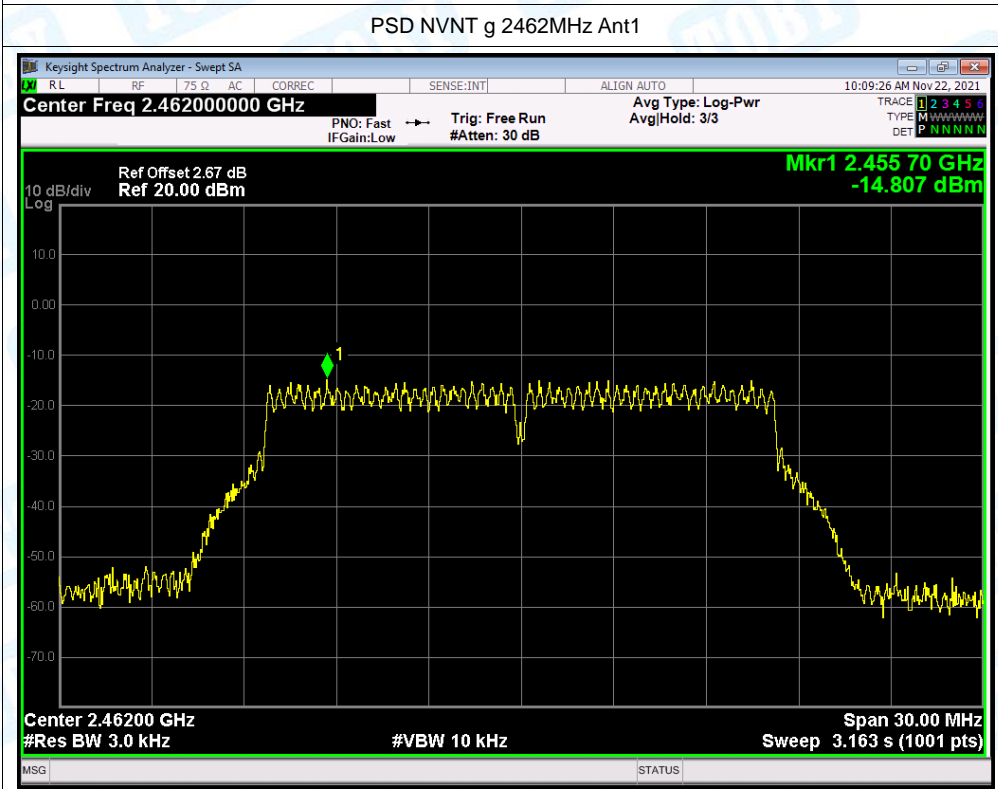
PSD NVNT g 2412MHz Ant1



PSD NVNT g 2437MHz Ant1

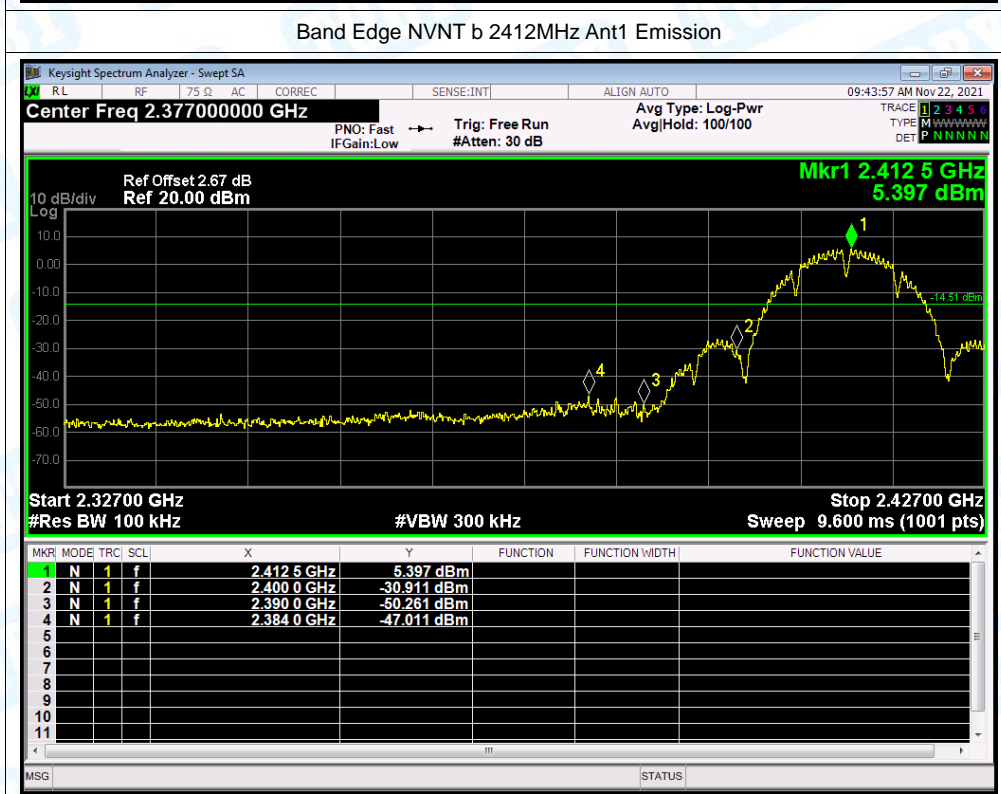


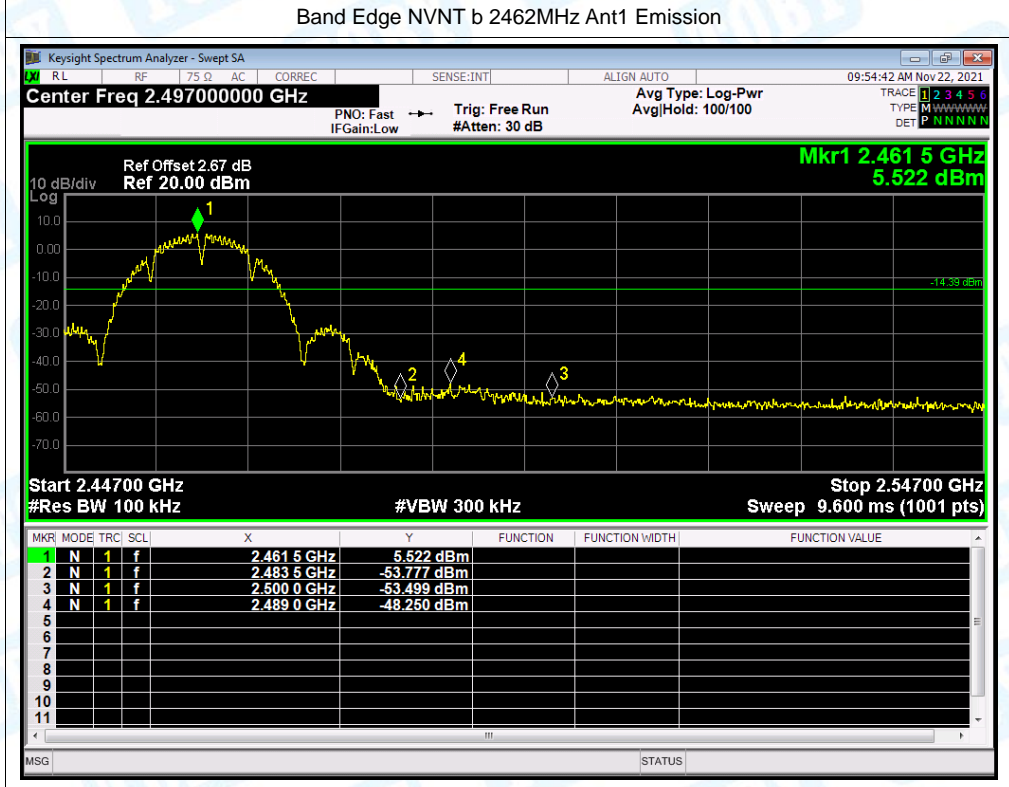
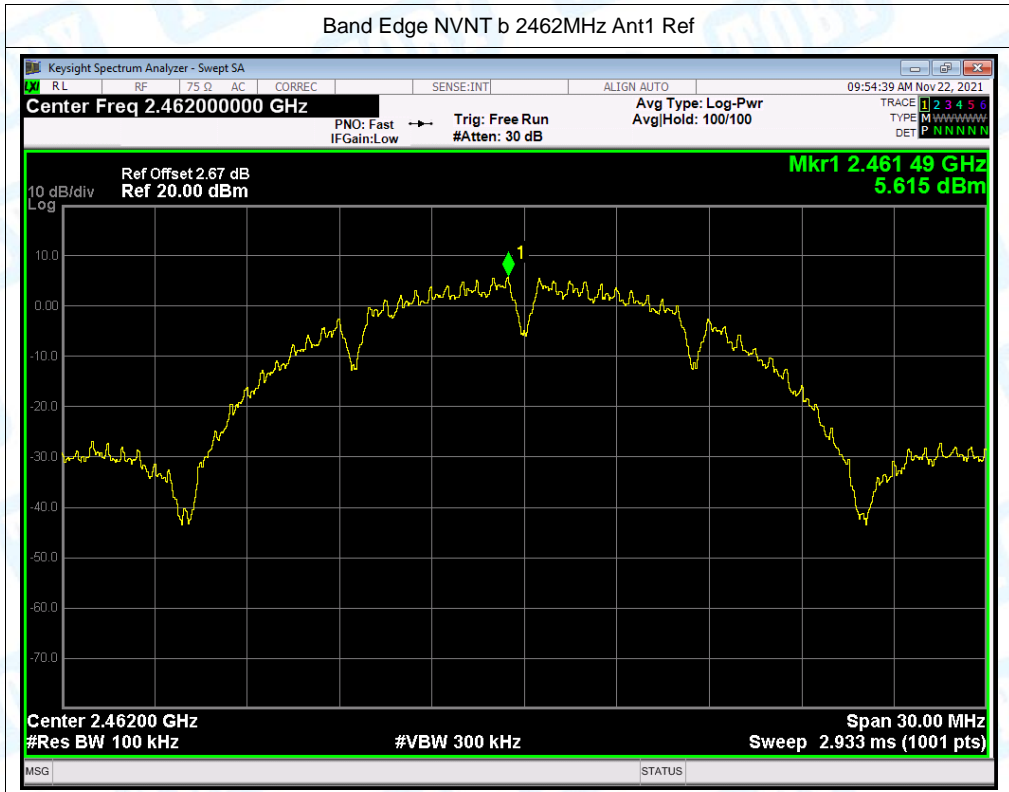
PSD NVNT g 2462MHz Ant1



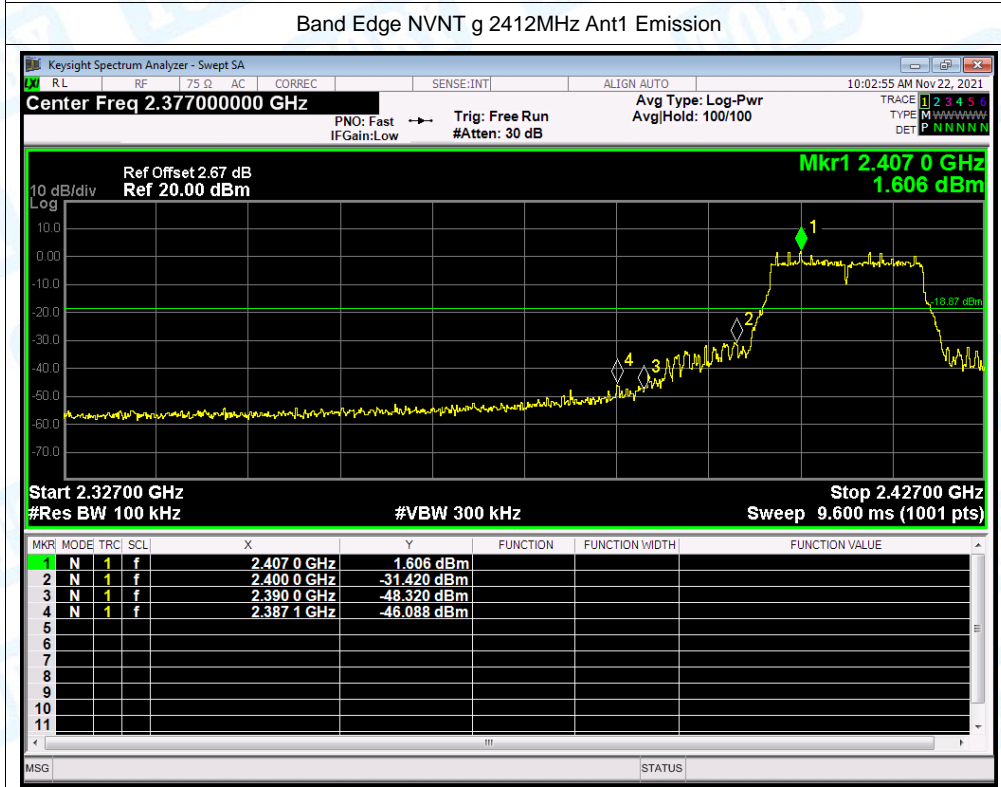
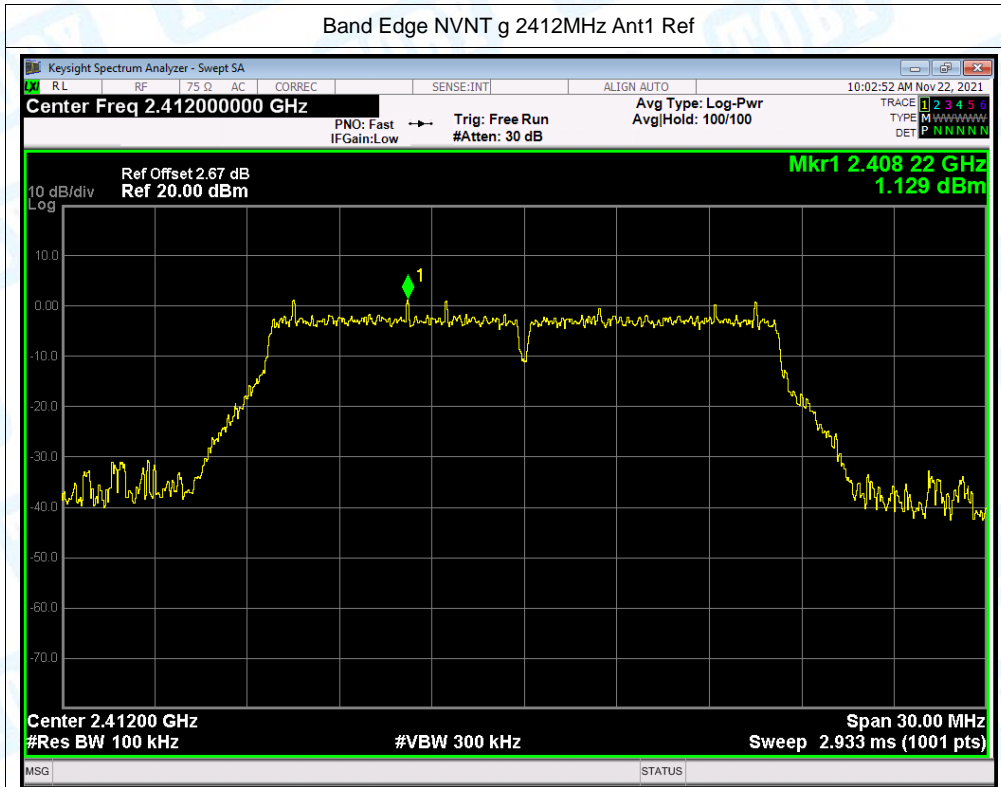
## 5.Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.5	-20	Pass
NVNT	b	2462	Ant1	-53.87	-20	Pass
NVNT	g	2412	Ant1	-47.21	-20	Pass
NVNT	g	2462	Ant1	-50.35	-20	Pass

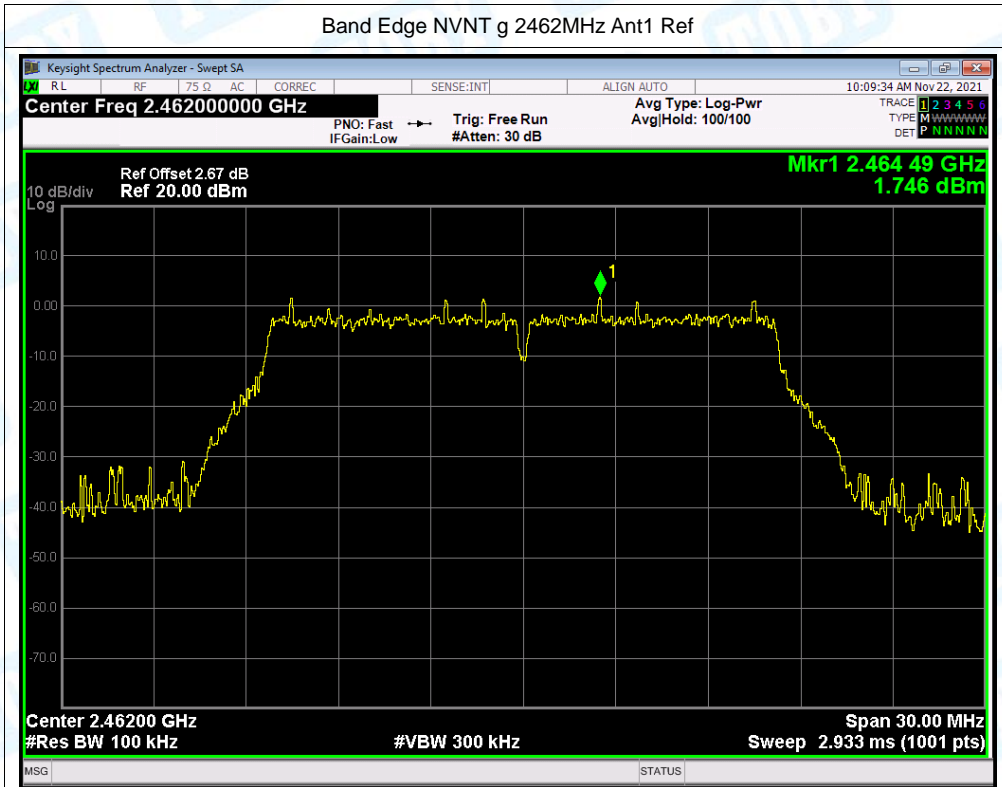




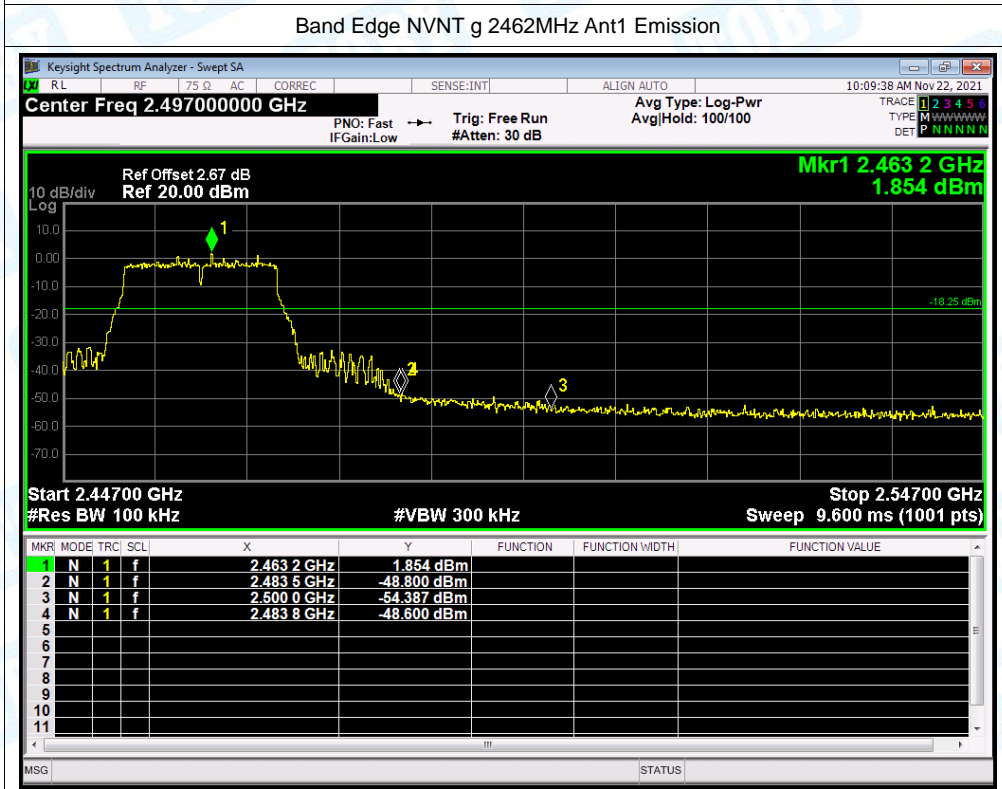




### Band Edge NVNT g 2462MHz Ant1 Ref

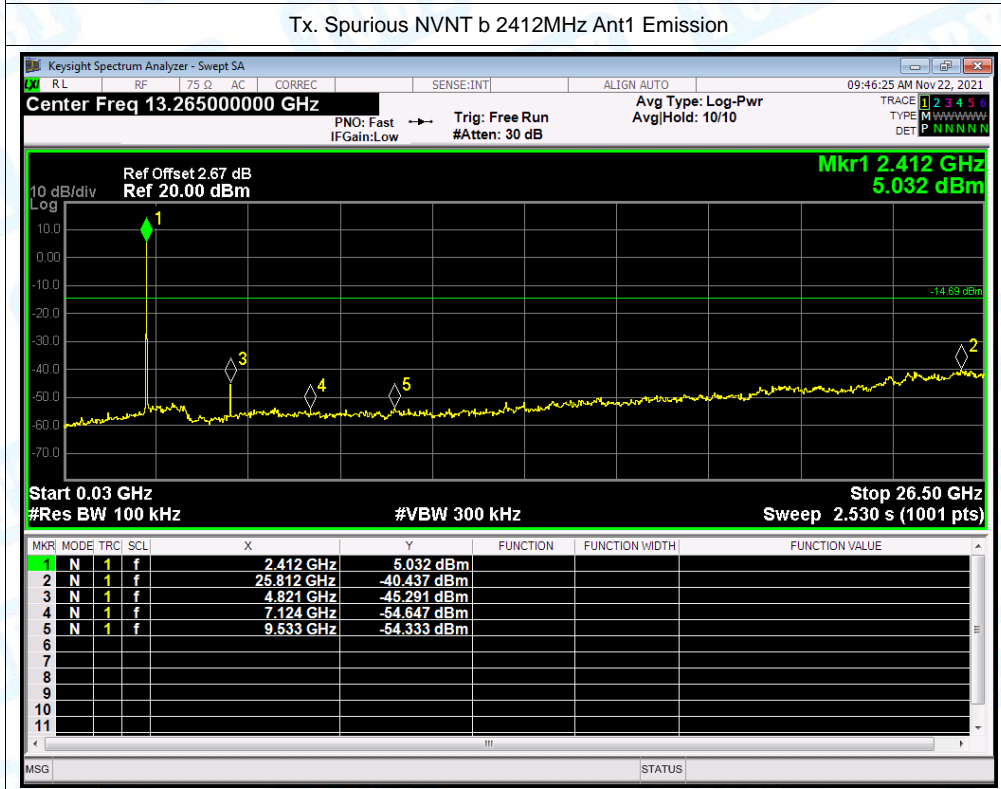
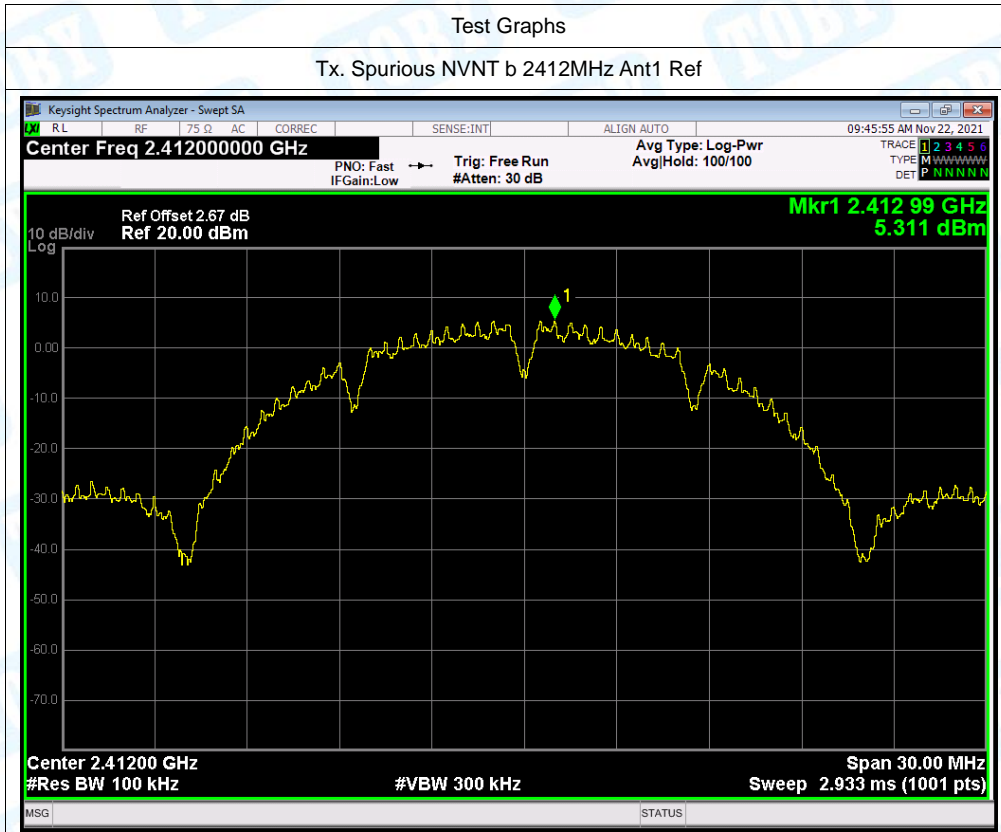


### Band Edge NVNT g 2462MHz Ant1 Emission

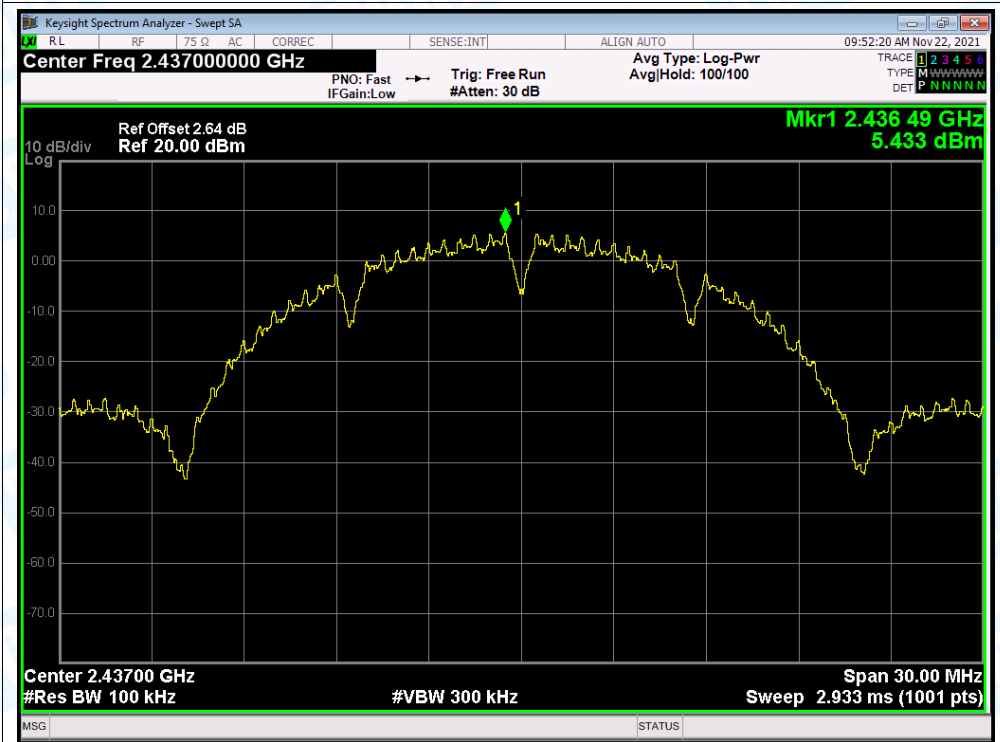


## 6. Conducted RF Spurious Emission

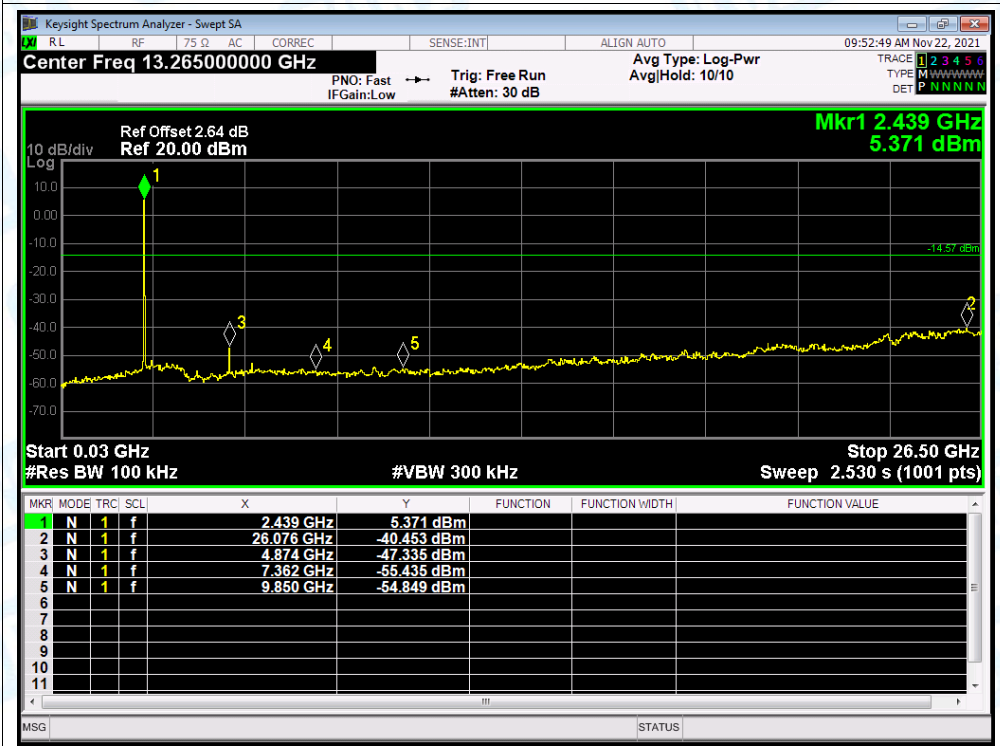
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.74	-20	Pass
NVNT	b	2437	Ant1	-45.88	-20	Pass
NVNT	b	2462	Ant1	-45.71	-20	Pass
NVNT	g	2412	Ant1	-41.97	-20	Pass
NVNT	g	2437	Ant1	-41.3	-20	Pass
NVNT	g	2462	Ant1	-41.87	-20	Pass



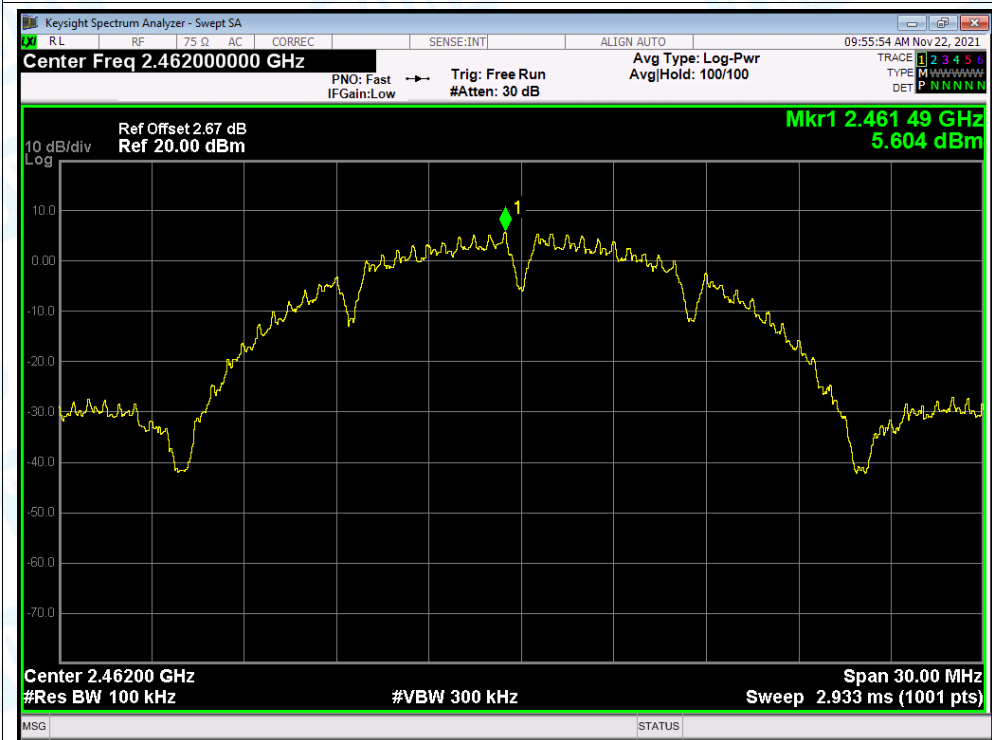
### Tx. Spurious NVNT b 2437MHz Ant1 Ref



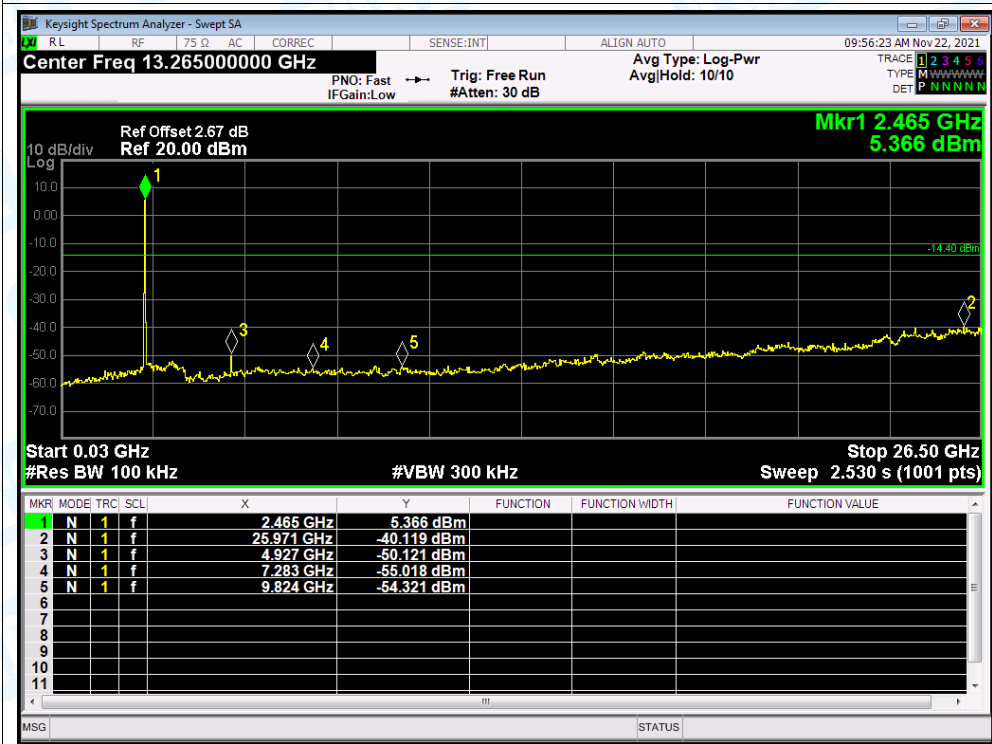
### Tx. Spurious NVNT b 2437MHz Ant1 Emission



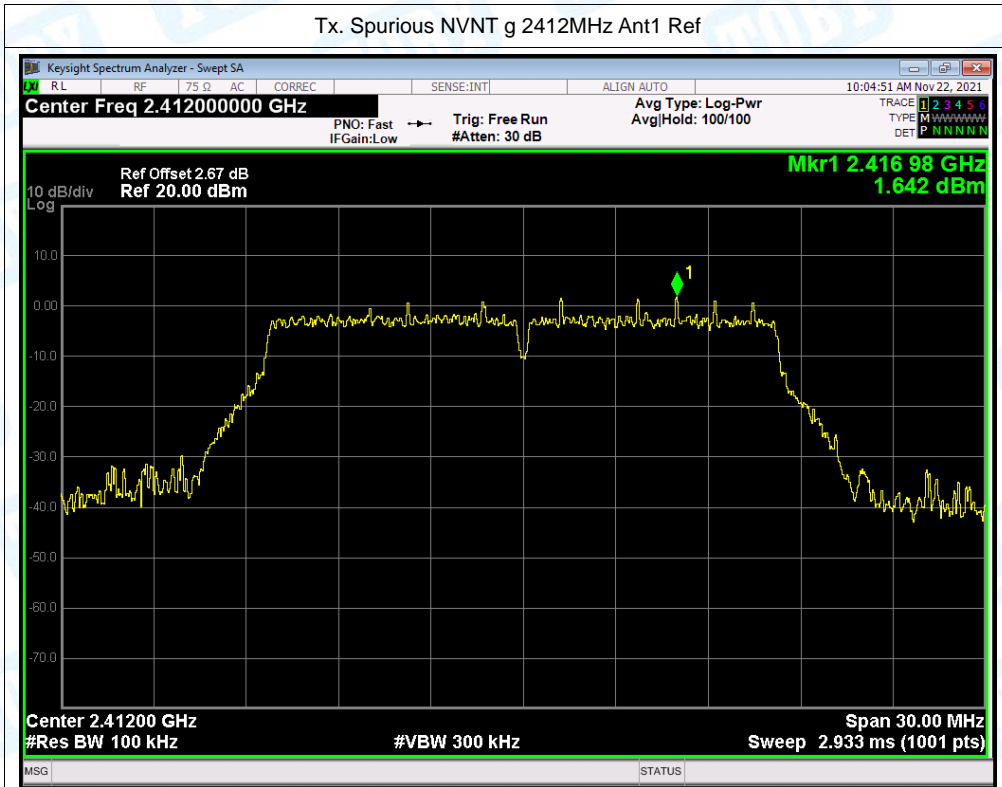
### Tx. Spurious NVNT b 2462MHz Ant1 Ref



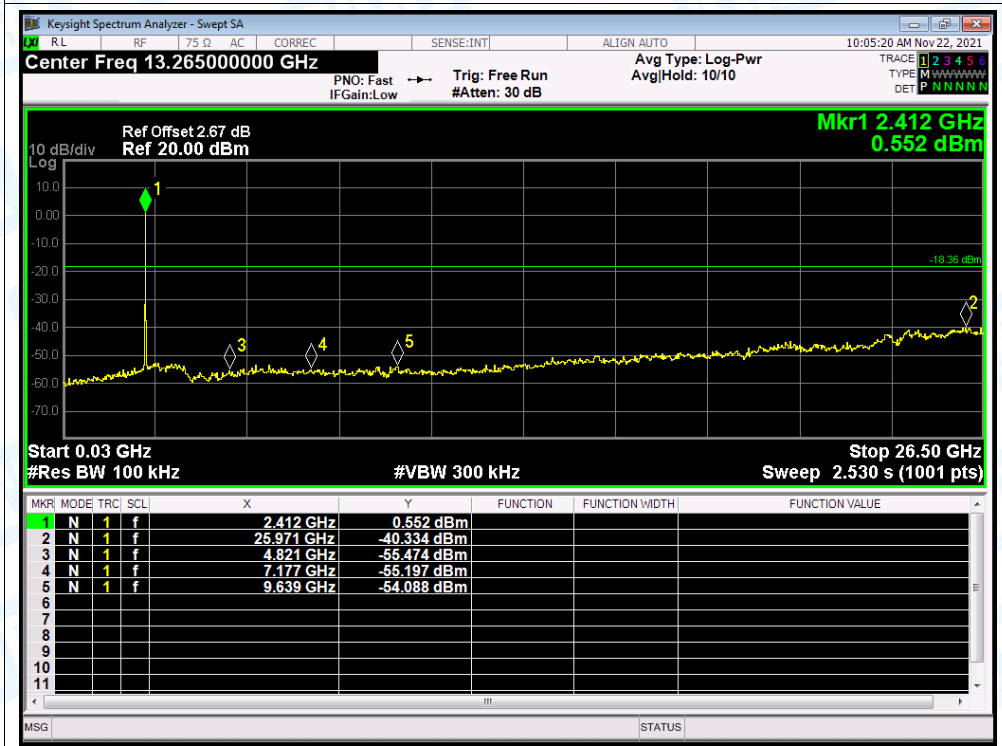
### Tx. Spurious NVNT b 2462MHz Ant1 Emission



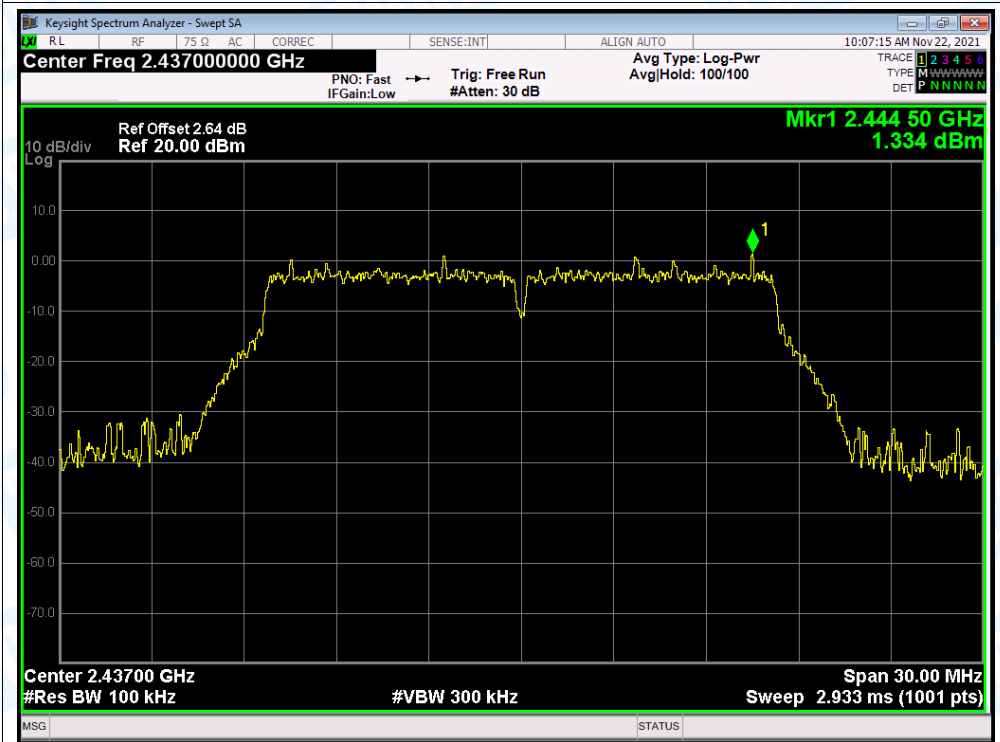
### Tx. Spurious NVNT g 2412MHz Ant1 Ref



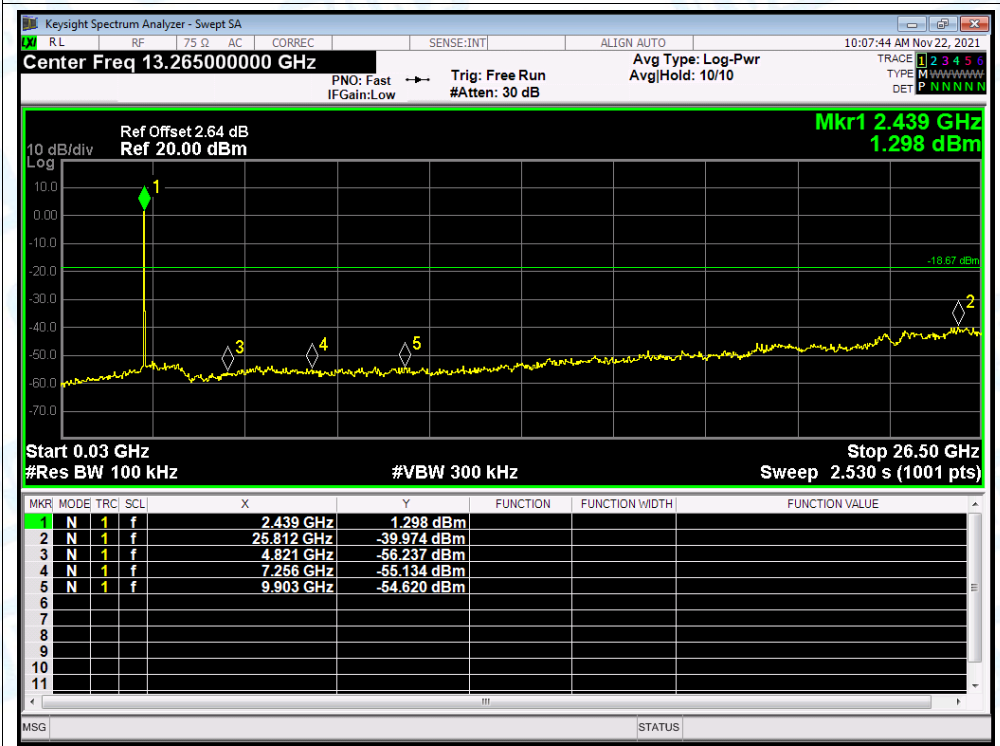
### Tx. Spurious NVNT g 2412MHz Ant1 Emission



### Tx. Spurious NVNT g 2437MHz Ant1 Ref

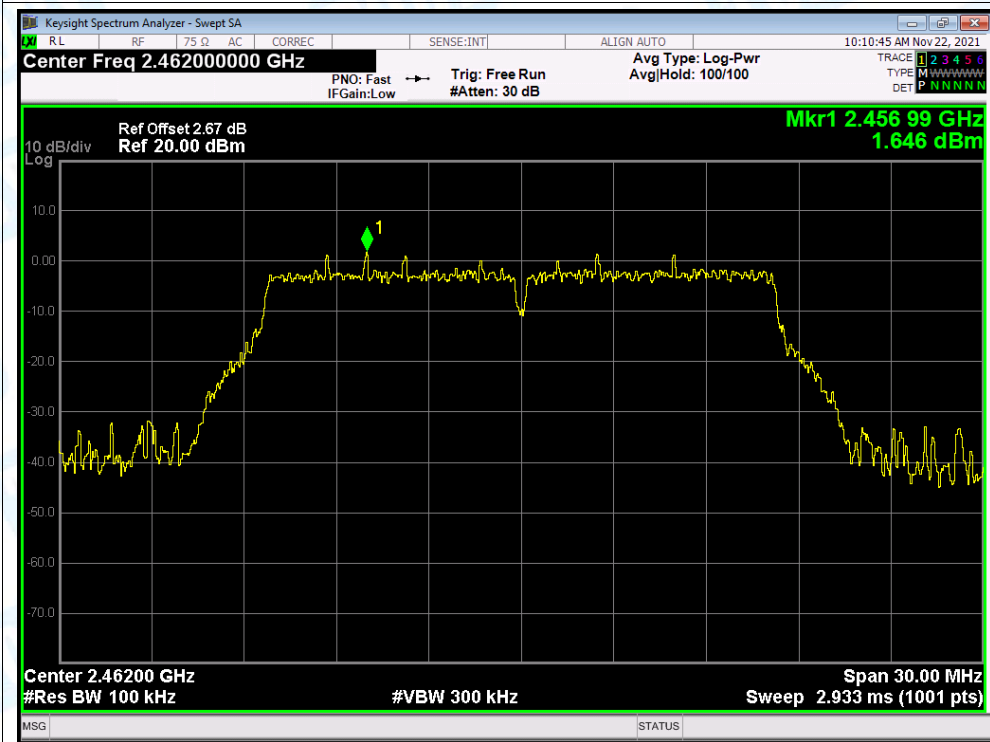


### Tx. Spurious NVNT g 2437MHz Ant1 Emission

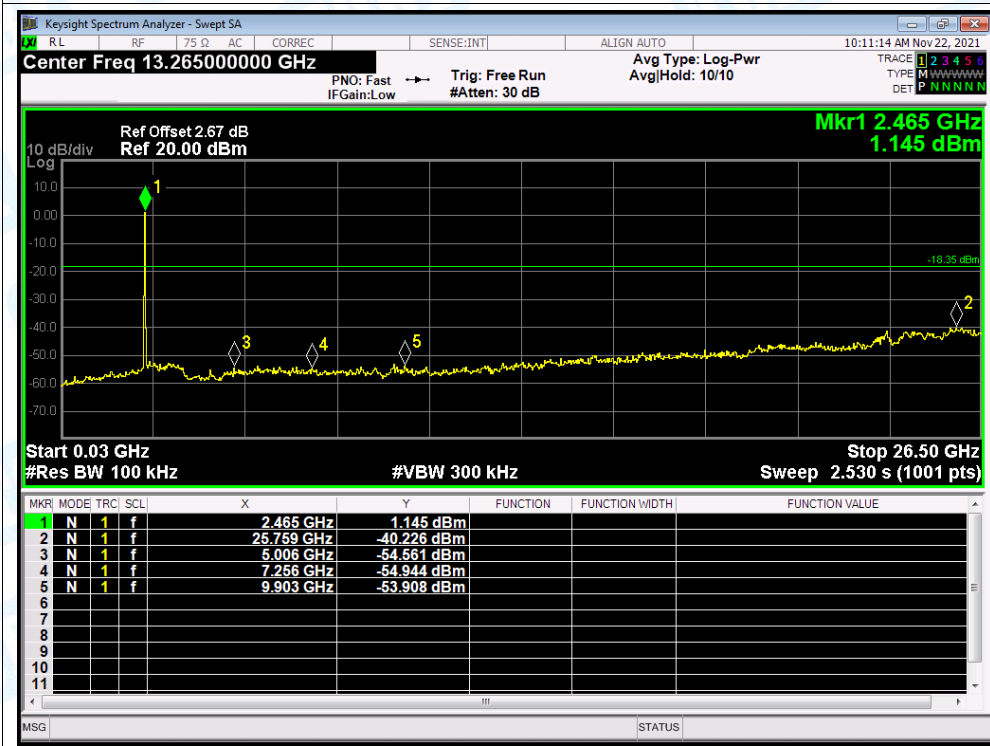




### Tx. Spurious NVNT g 2462MHz Ant1 Ref



### Tx. Spurious NVNT g 2462MHz Ant1 Emission



## 7.Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-44.24	2	53.02	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-55.9	2	41.36	Average	54	Pass
NVNT	b	2412	Ant1	2384.529	-38.26	2	59	Peak	74	Pass
NVNT	b	2412	Ant1	2383.359	-48.79	2	48.47	Average	54	Pass
NVNT	b	2412	Ant1	2390	-42.57	2	54.69	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-51.7	2	45.56	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-41.61	2	55.65	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-51.09	2	46.17	Average	54	Pass
NVNT	b	2462	Ant1	2490.354	-37.15	2	60.11	Peak	74	Pass
NVNT	b	2462	Ant1	2490.619	-48.57	2	48.69	Average	54	Pass
NVNT	b	2462	Ant1	2500	-42.1	2	55.16	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-52.76	2	44.5	Average	54	Pass
NVNT	g	2412	Ant1	2310	-44.65	2	52.61	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.78	2	41.48	Average	54	Pass
NVNT	g	2412	Ant1	2389.209	-30.17	2	67.09	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-46.67	2	50.59	Average	54	Pass
NVNT	g	2412	Ant1	2390	-33.11	2	64.15	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-46.49	2	50.77	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-36.37	2	60.89	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-47.94	2	49.32	Average	54	Pass
NVNT	g	2462	Ant1	2484.577	-32.72	2	64.54	Peak	74	Pass
NVNT	g	2462	Ant1	2483.517	-47.94	2	49.32	Average	54	Pass
NVNT	g	2462	Ant1	2500	-43.83	2	53.43	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-52.37	2	44.89	Average	54	Pass

