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FCC ID:2BEET-V851S

FCC_BLE(Part15.247) Test Data

1.Duty Cycle

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
BLE 1M	2402	85.54	0.68	0.47
BLE 1M	2440	85.54	0.68	0.47
BLE 1M	2480	85.54	0.68	0.47
BLE 2M	2402	57.65	2.39	0.93
BLE 2M	2440	57.65	2.39	0.93
BLE 2M	2480	57.65	2.39	0.93

Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1

Duty Cycle NVNT BLE 1M 2440MHz Ant1

Duty Cycle NVNT BLE 1M 2480MHz Ant1

Duty Cycle NVNT BLE 2M 2402MHz Ant1

Duty Cycle NVNT BLE 2M 2440MHz Ant1

Duty Cycle NVNT BLE 2M 2480MHz Ant1

2.Maximum Peak Conducted Output Power

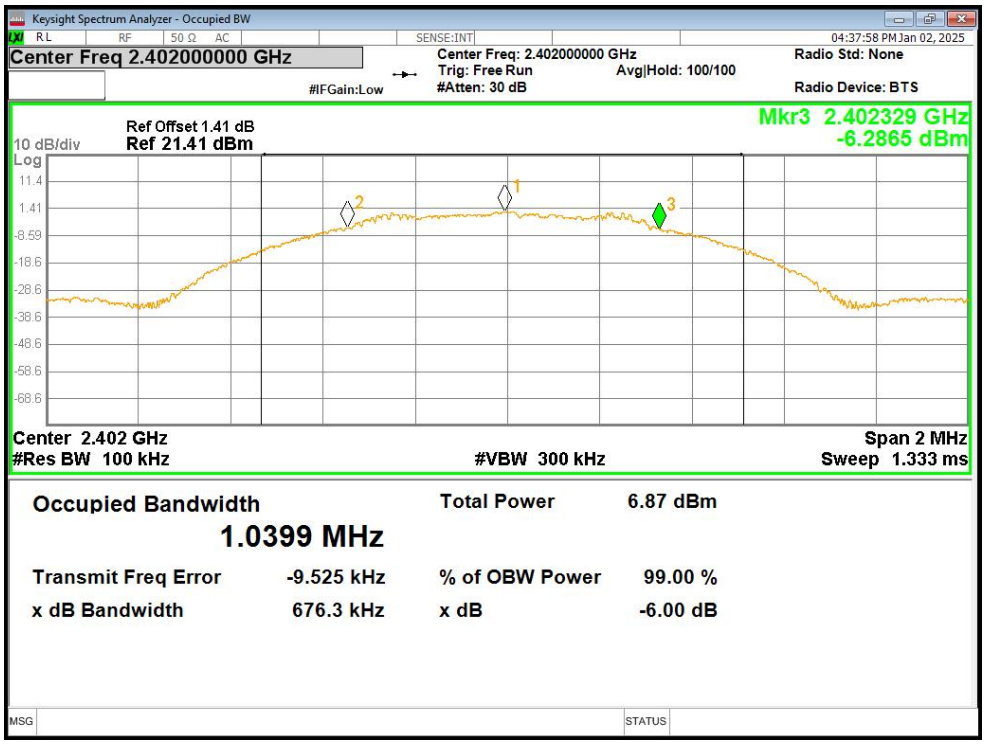
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	0.97	30	Pass
BLE 1M	2440	1.12	30	Pass
BLE 1M	2480	-0.18	30	Pass
BLE 2M	2402	1.48	30	Pass
BLE 2M	2440	1.46	30	Pass
BLE 2M	2480	0.35	30	Pass

3.-6dB Bandwidth

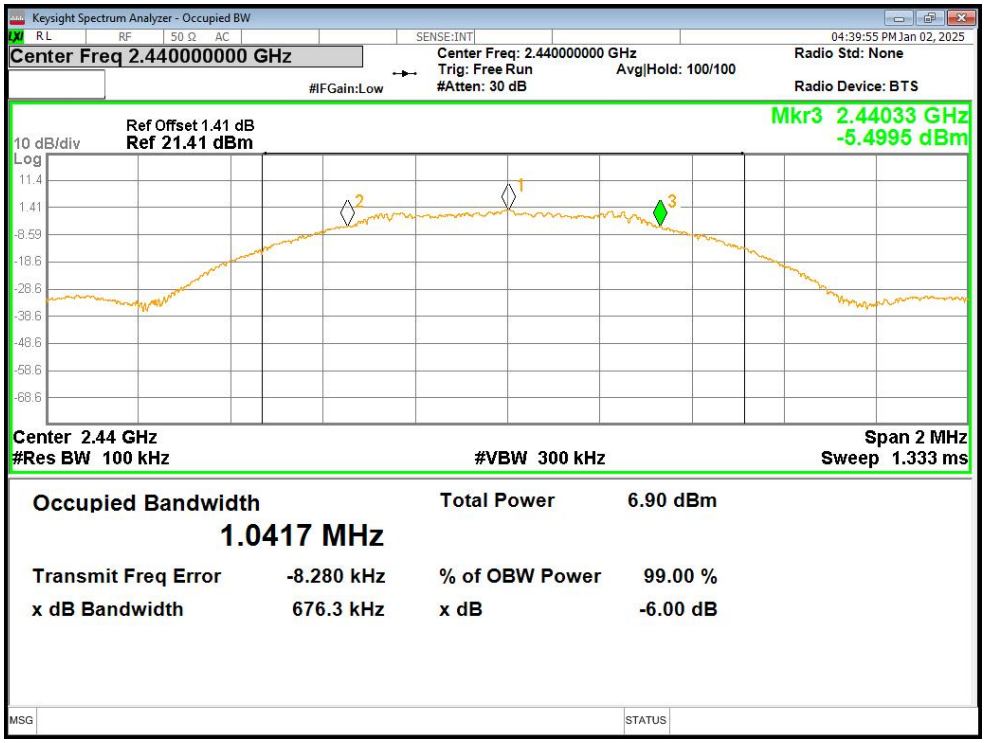
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.676	0.5	Pass
BLE 1M	2440	0.676	0.5	Pass
BLE 1M	2480	0.672	0.5	Pass
BLE 2M	2402	1.145	0.5	Pass
BLE 2M	2440	1.109	0.5	Pass
BLE 2M	2480	1.251	0.5	Pass

Test Graphs

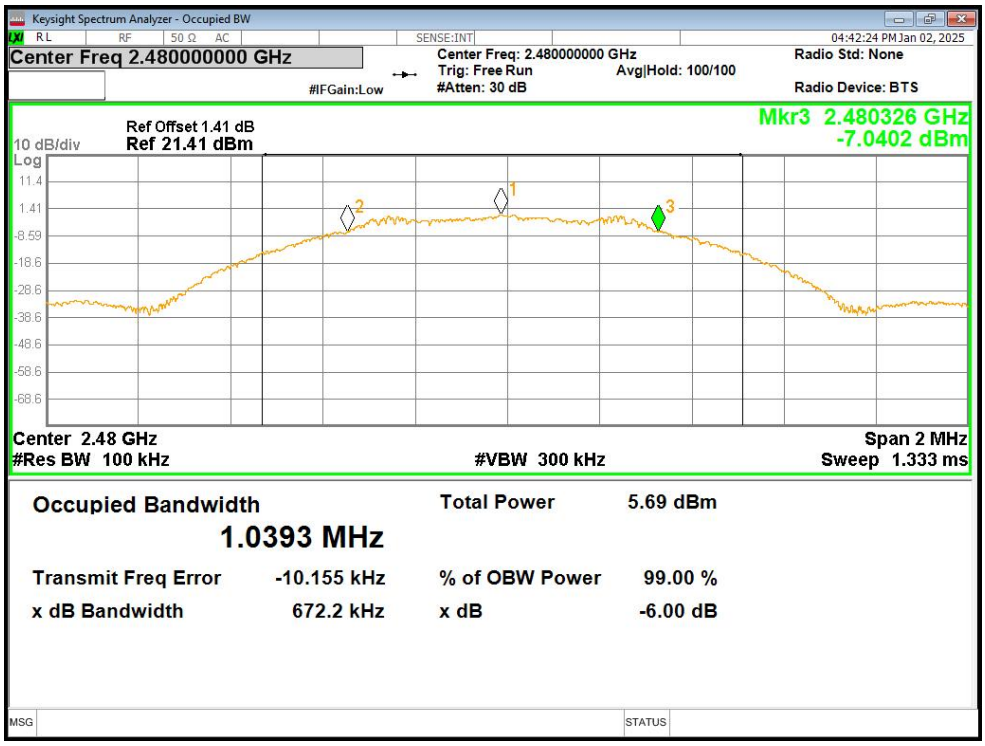
-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



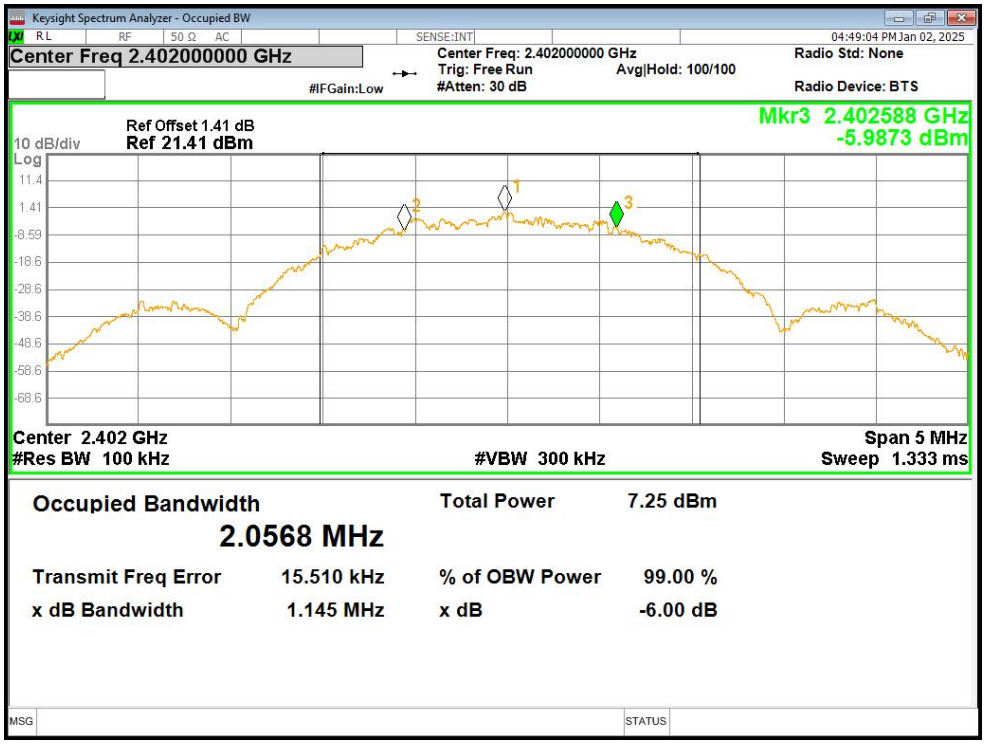
-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



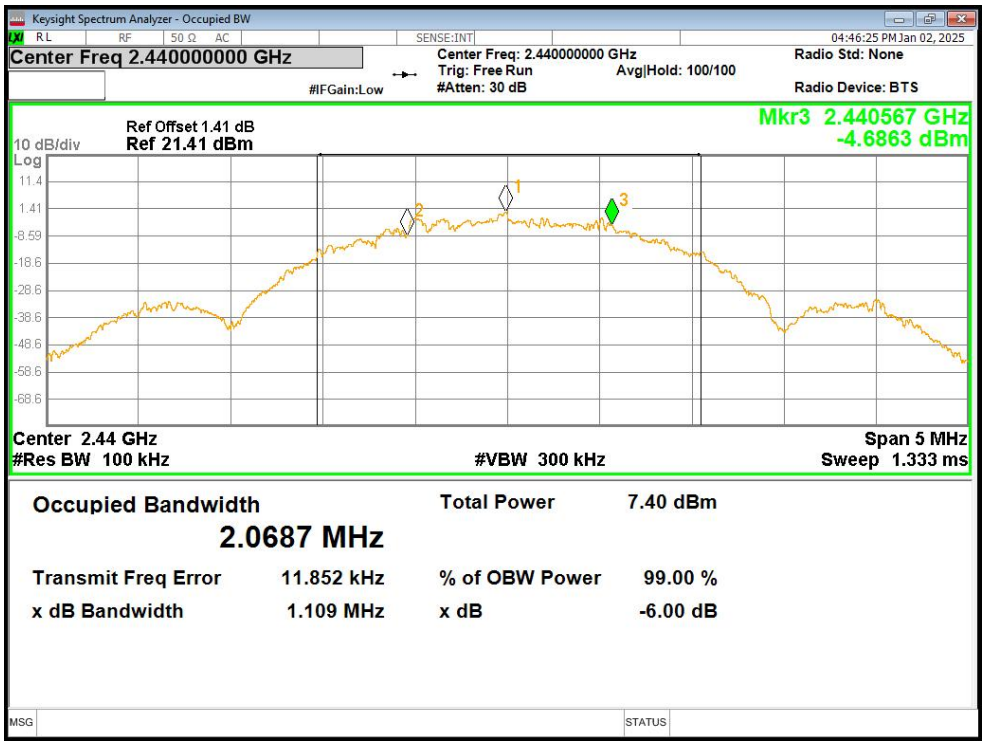
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



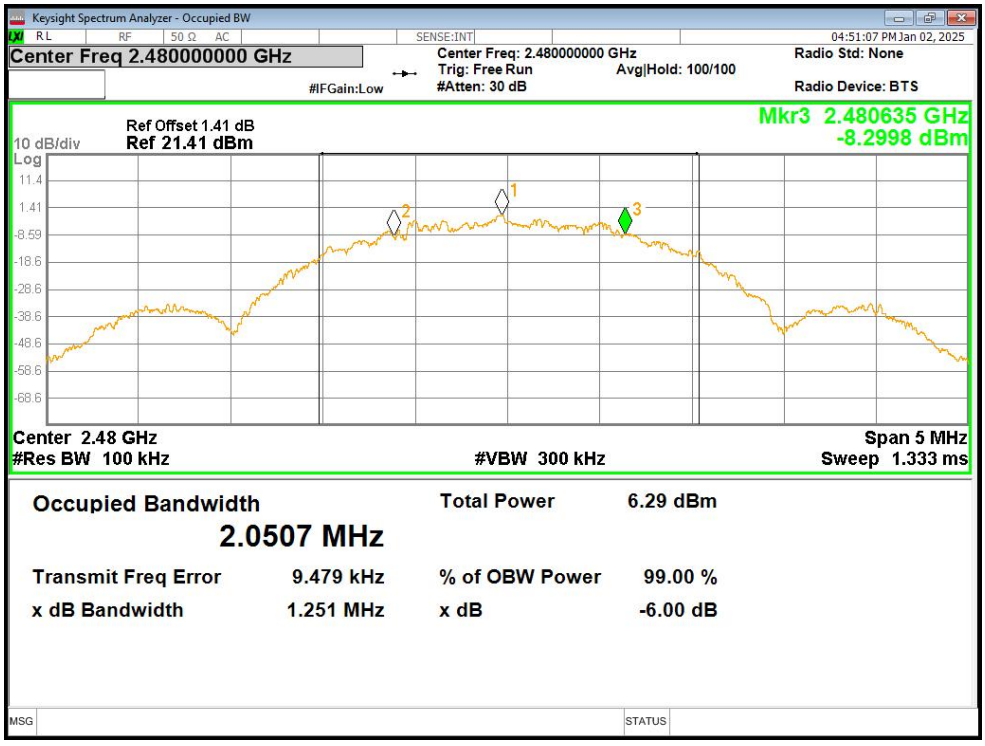
-6dB Bandwidth NVNT BLE 2M 2402MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



-6dB Bandwidth NVNT BLE 2M 2480MHz Ant1

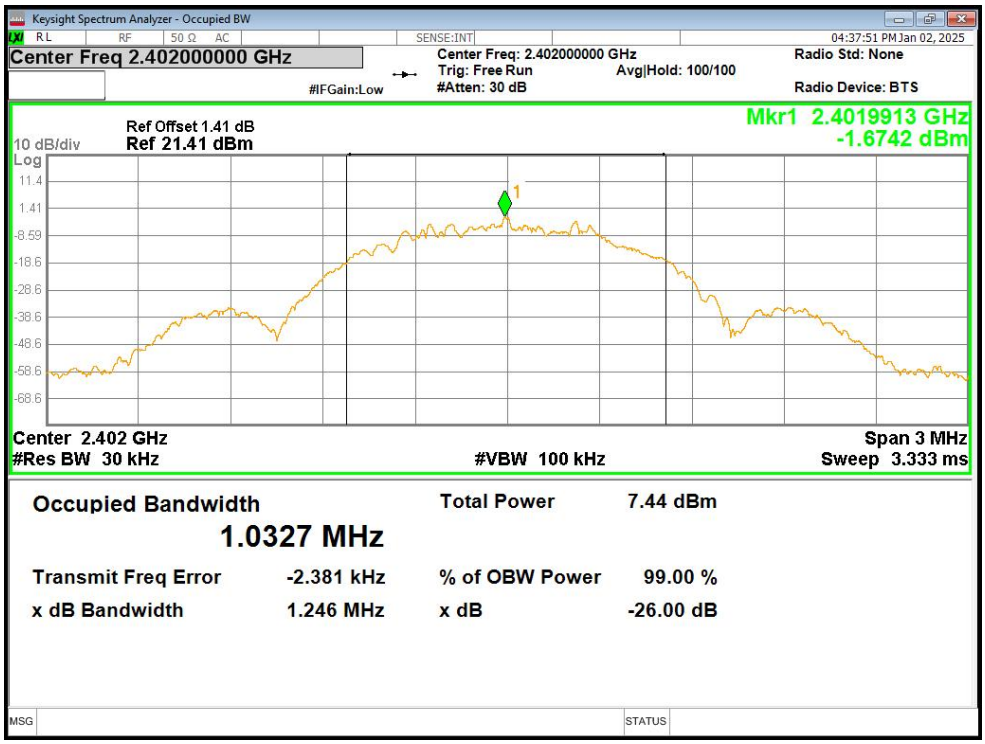


4.Occupied Channel Bandwidth

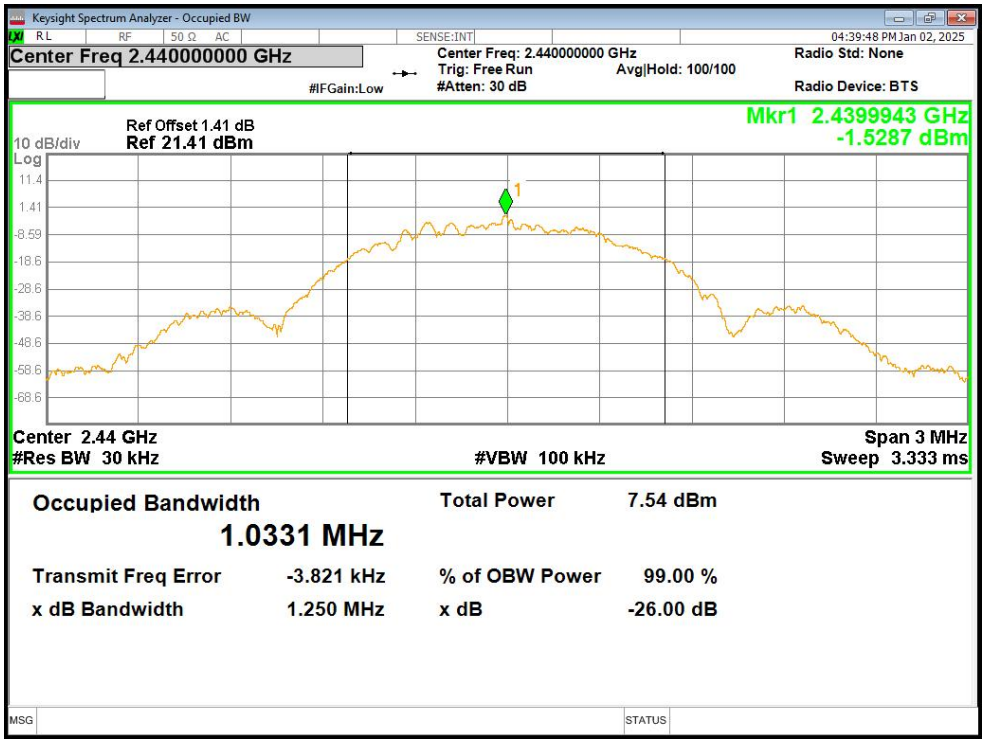
Mode	Frequency (MHz)	99% OBW (MHz)
BLE 1M	2402	1.033
BLE 1M	2440	1.033
BLE 1M	2480	1.039
BLE 2M	2402	2.064
BLE 2M	2440	2.079
BLE 2M	2480	2.049

Test Graphs

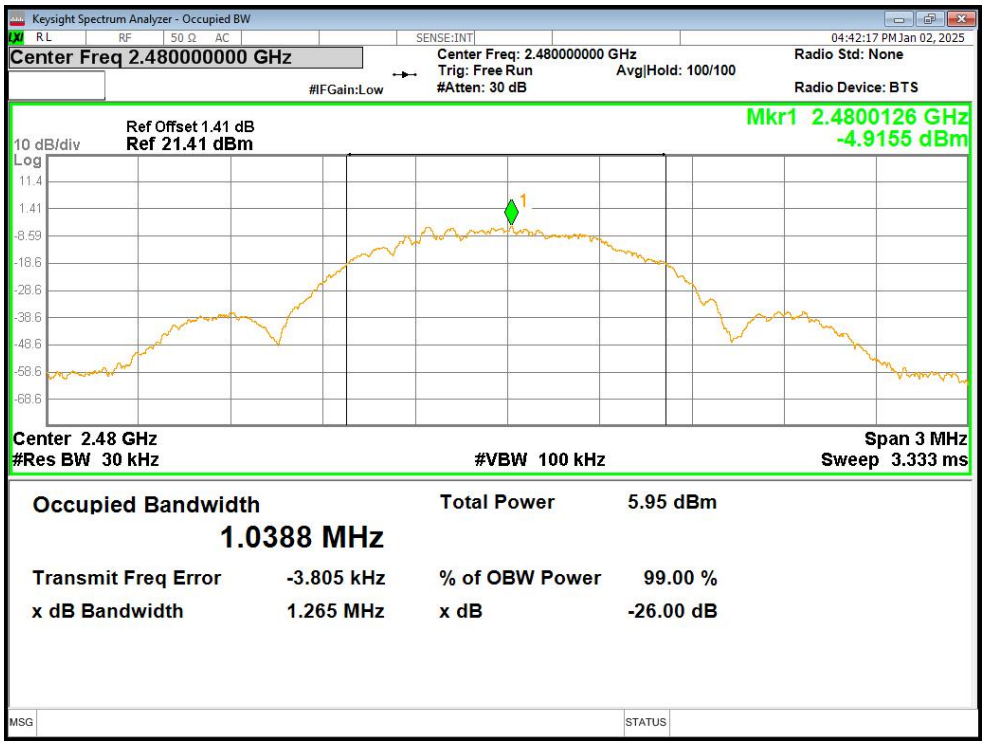
OBW NVNT BLE 1M 2402MHz Ant1



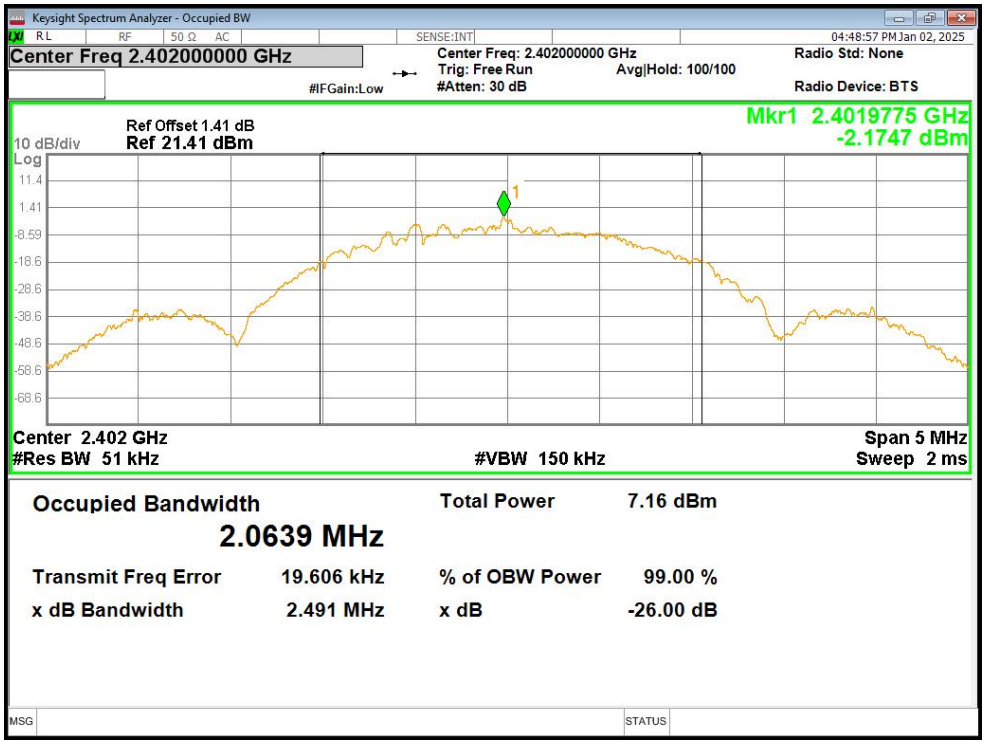
OBW NVNT BLE 1M 2440MHz Ant1



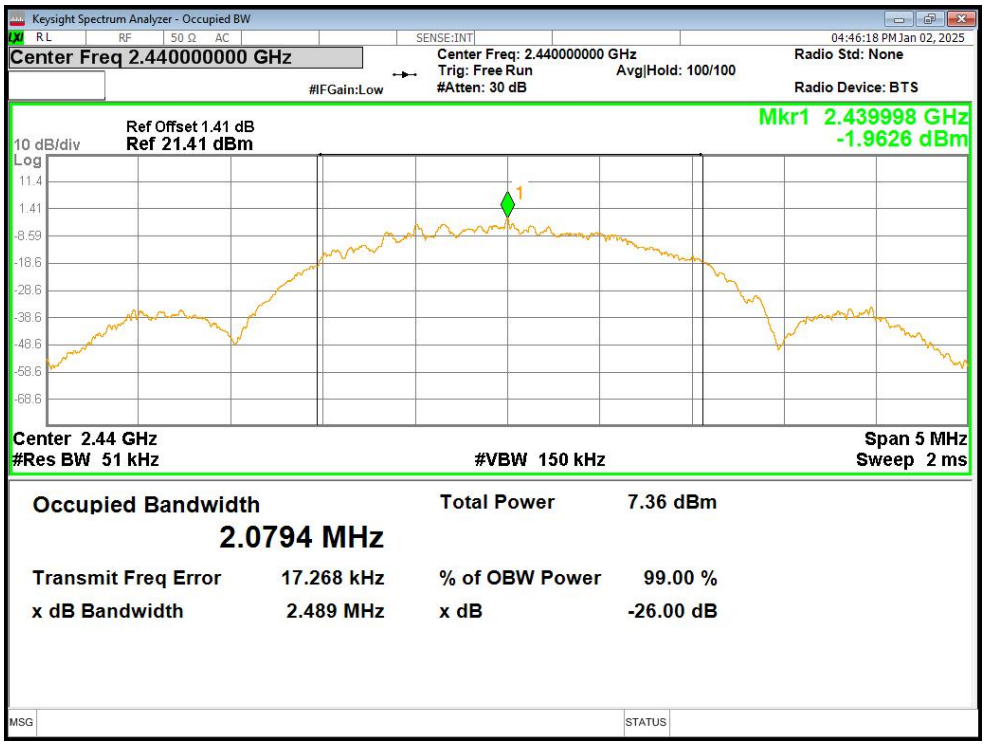
OBW NVNT BLE 1M 2480MHz Ant1



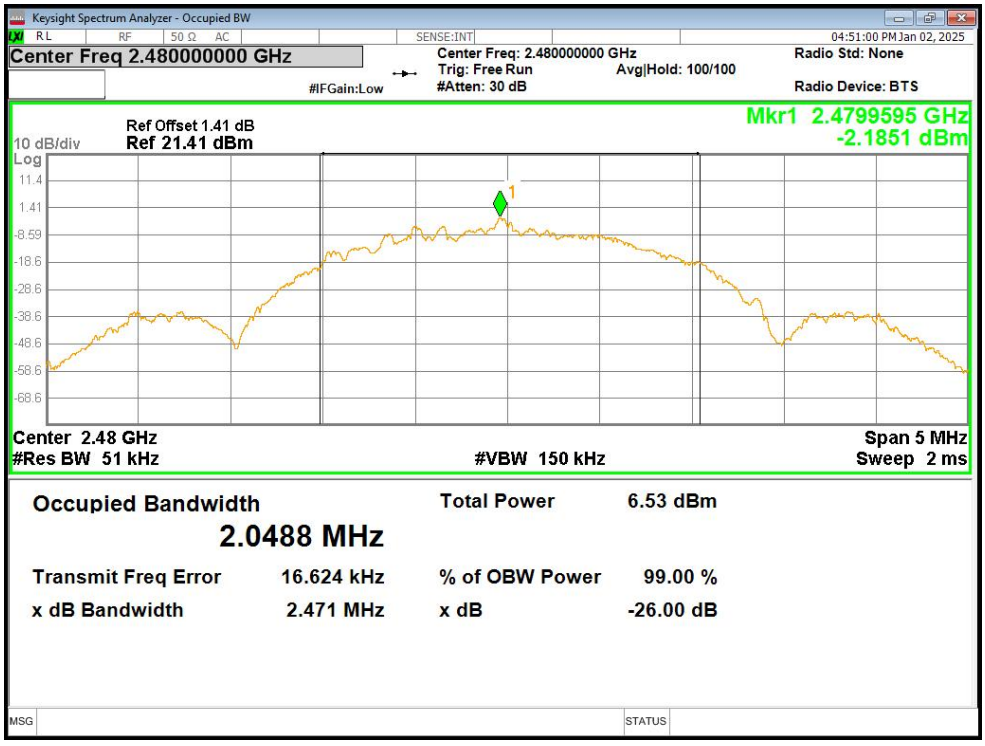
OBW NVNT BLE 2M 2402MHz Ant1



OBW NVNT BLE 2M 2440MHz Ant1



OBW NVNT BLE 2M 2480MHz Ant1

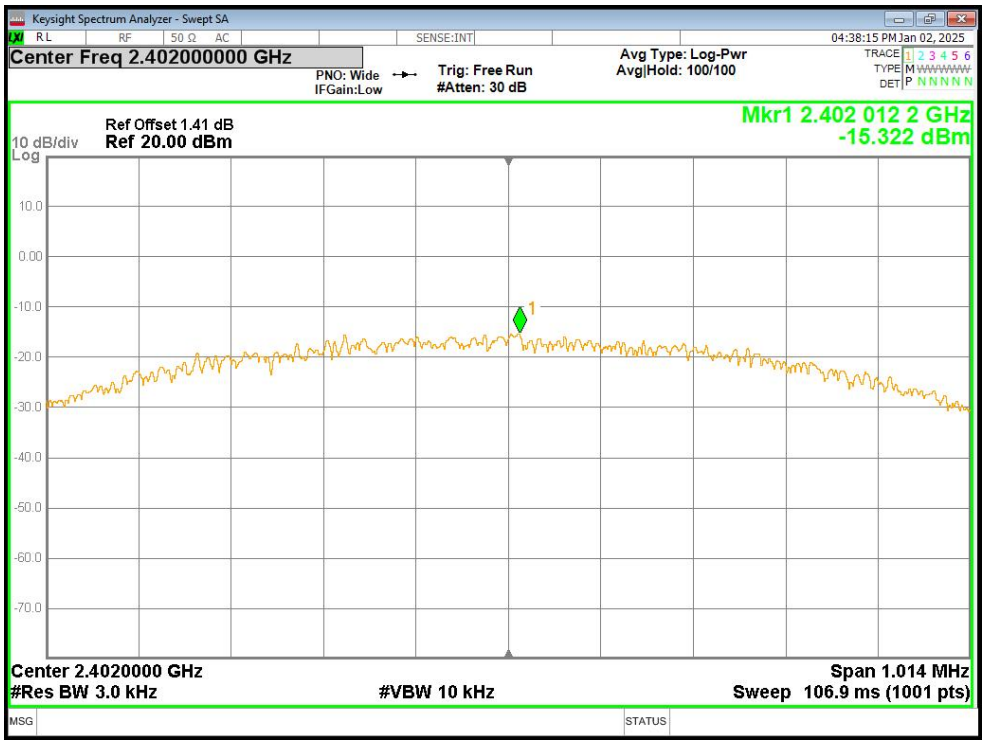


5.Maximum Power Spectral Density Level

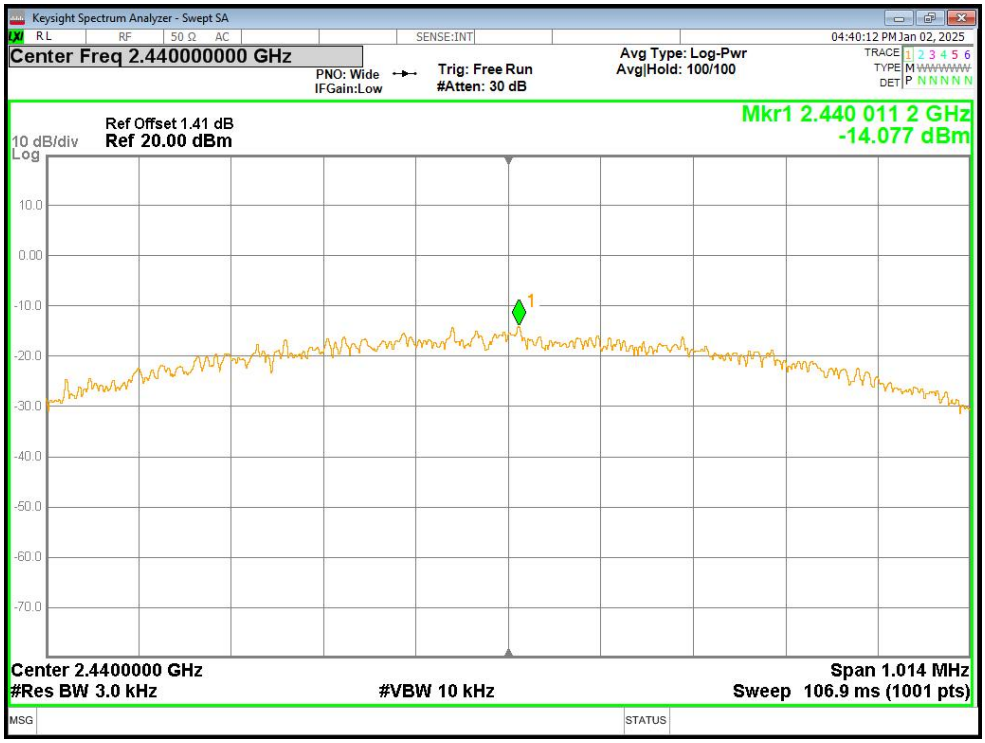
Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
BLE 1M	2402	-15.32	8	Pass
BLE 1M	2440	-14.08	8	Pass
BLE 1M	2480	-15.95	8	Pass
BLE 2M	2402	-16.63	8	Pass
BLE 2M	2440	-15.53	8	Pass
BLE 2M	2480	-17.15	8	Pass

Test Graphs

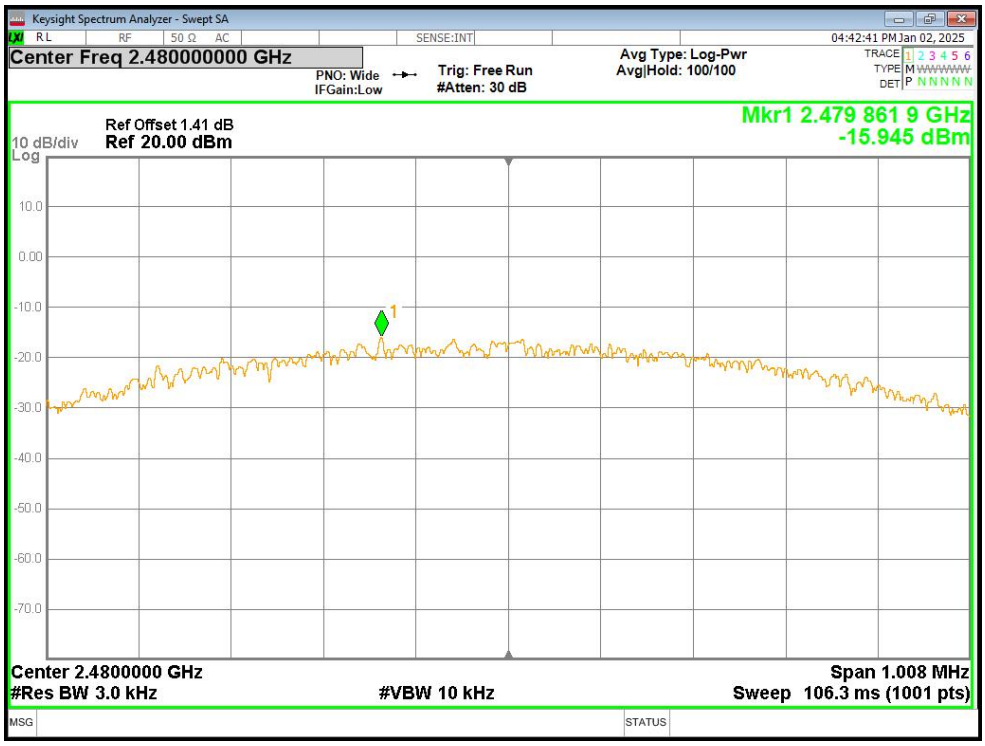
PSD NVNT BLE 1M 2402MHz Ant1



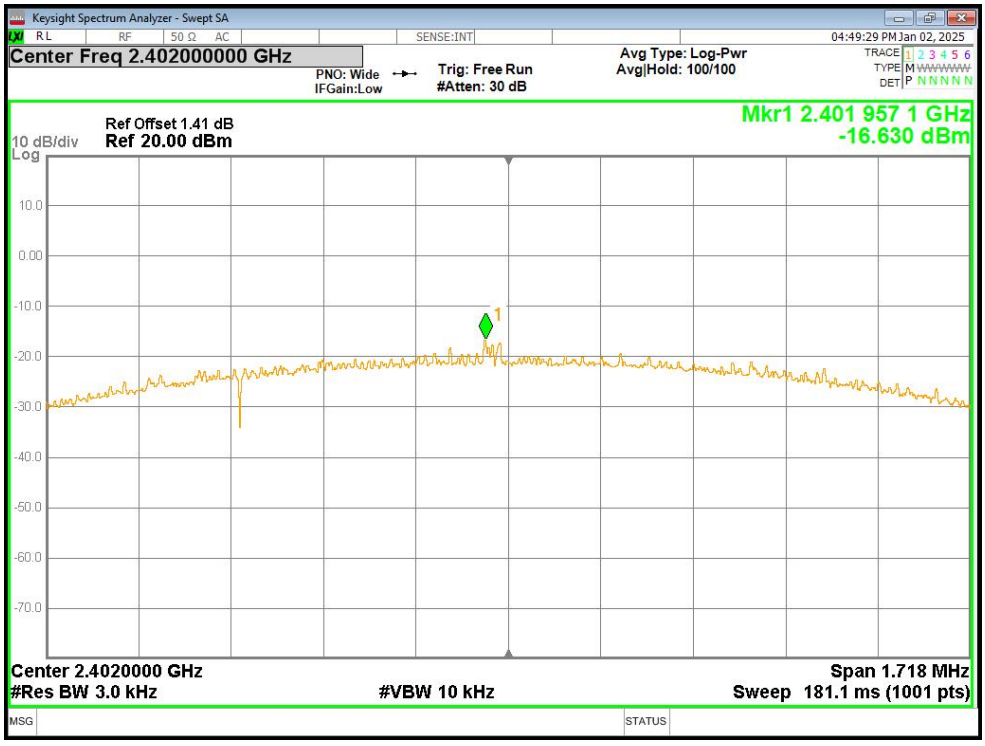
PSD NVNT BLE 1M 2440MHz Ant1



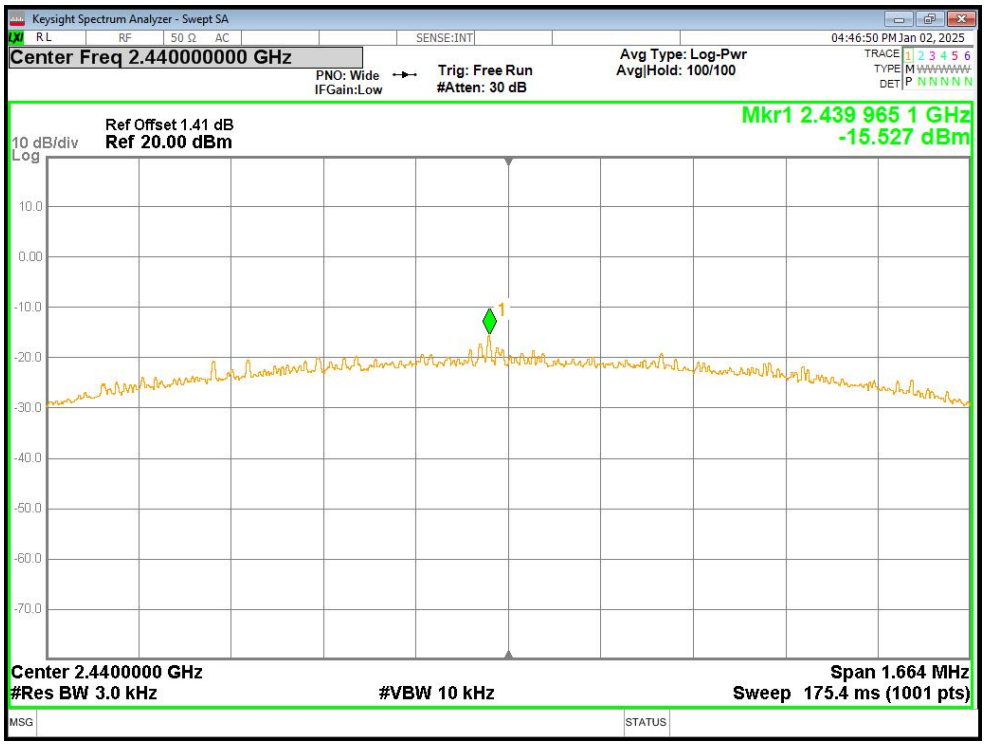
PSD NVNT BLE 1M 2480MHz Ant1



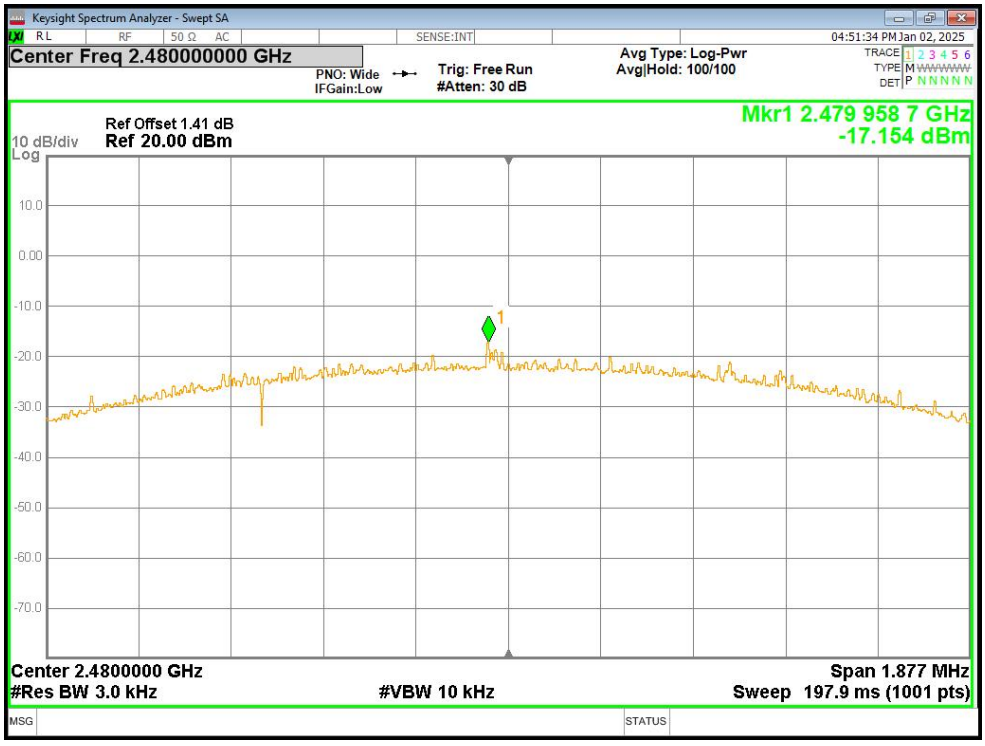
PSD NVNT BLE 2M 2402MHz Ant1



PSD NVNT BLE 2M 2440MHz Ant1



PSD NVNT BLE 2M 2480MHz Ant1

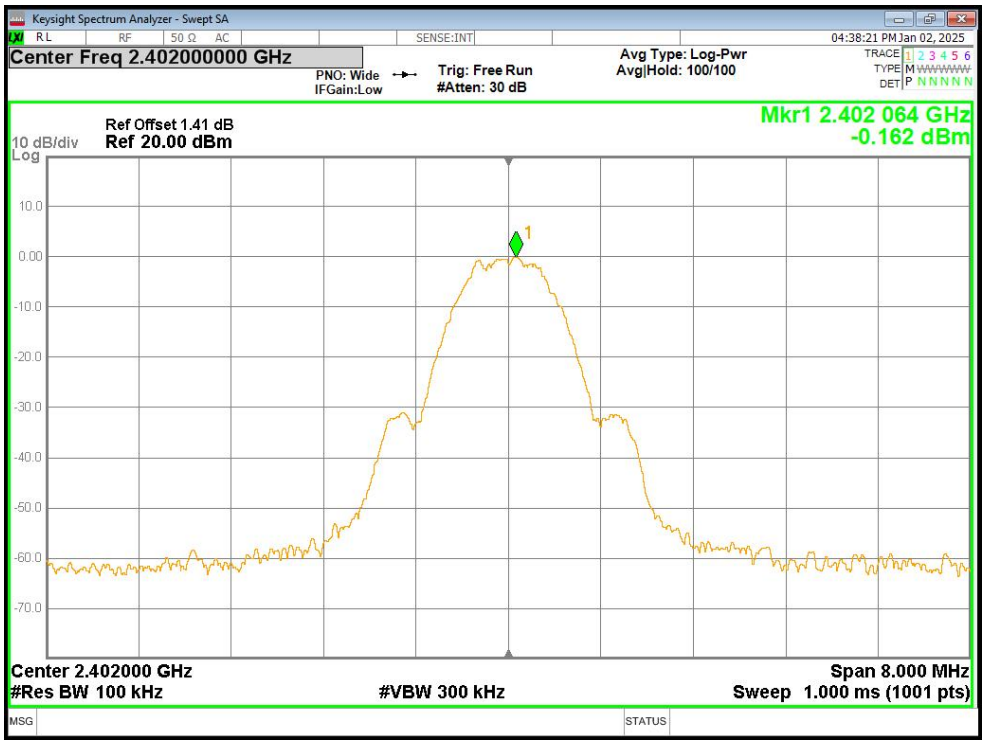


6.Band Edge

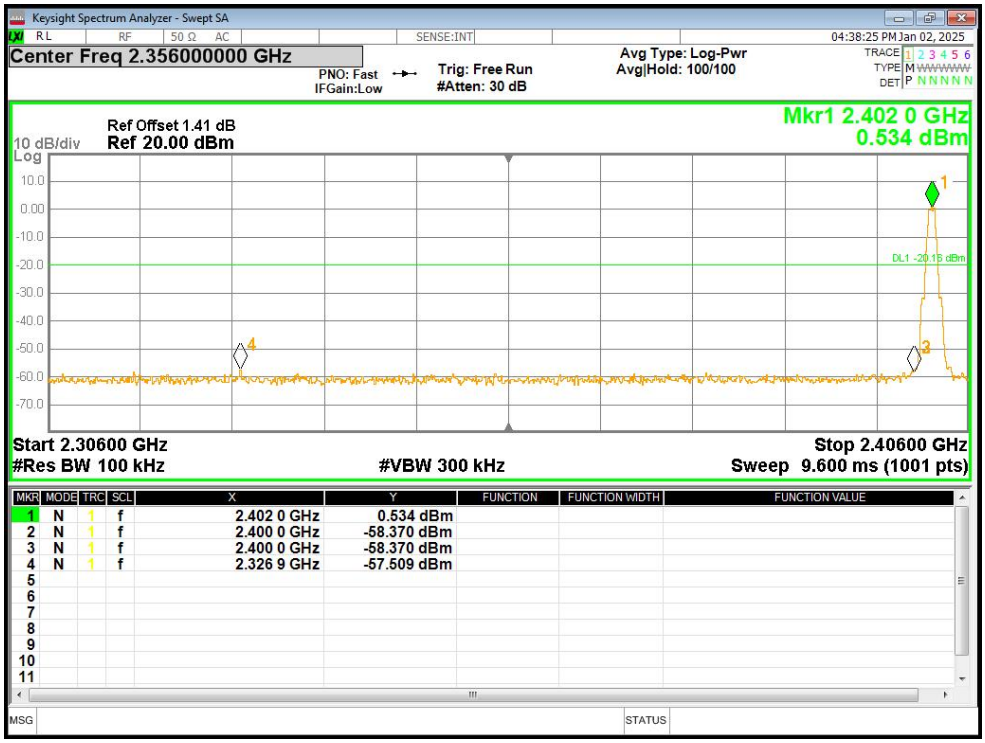
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-57.34	-20	Pass
BLE 1M	2480	-57.36	-20	Pass
BLE 2M	2402	-32.2	-20	Pass
BLE 2M	2480	-57.46	-20	Pass

Test Graphs

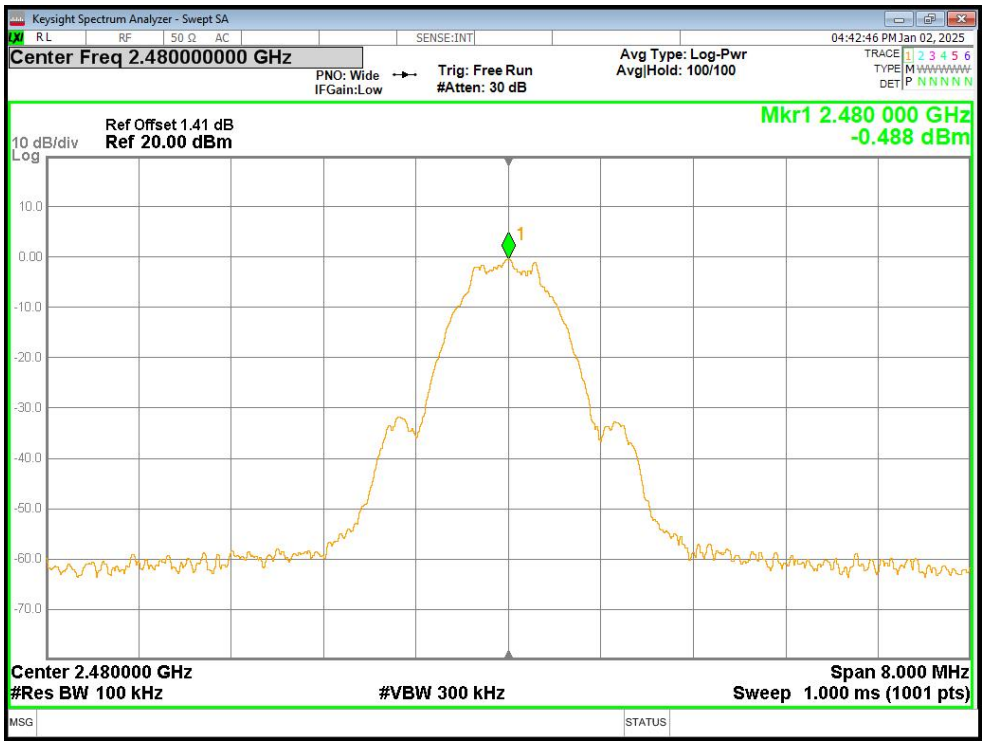
Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



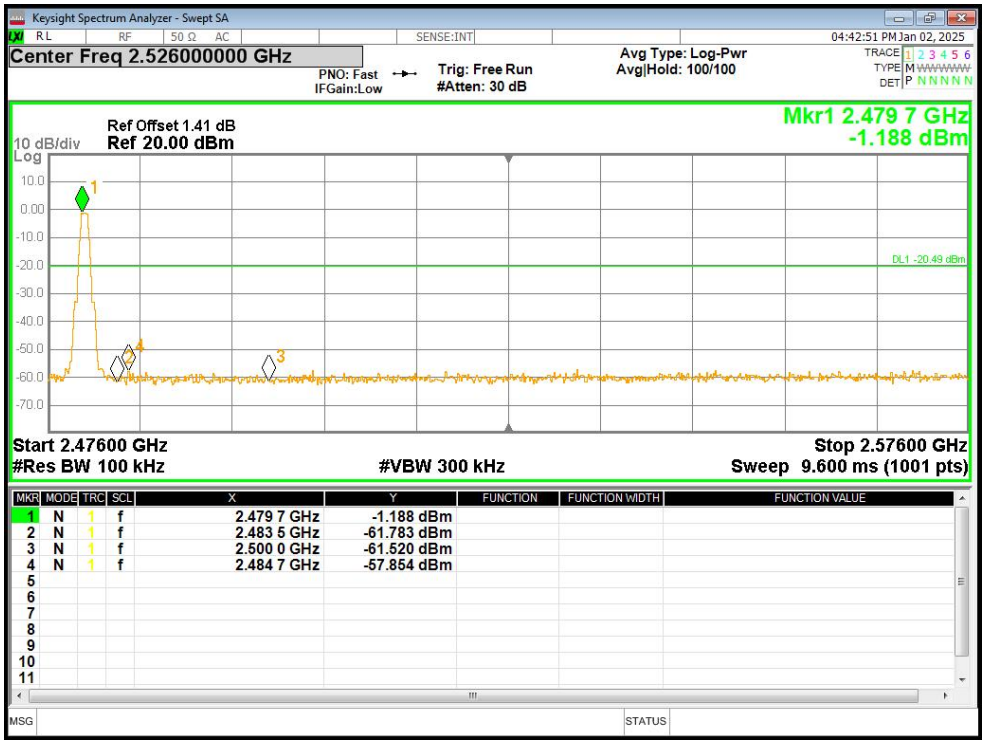
Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



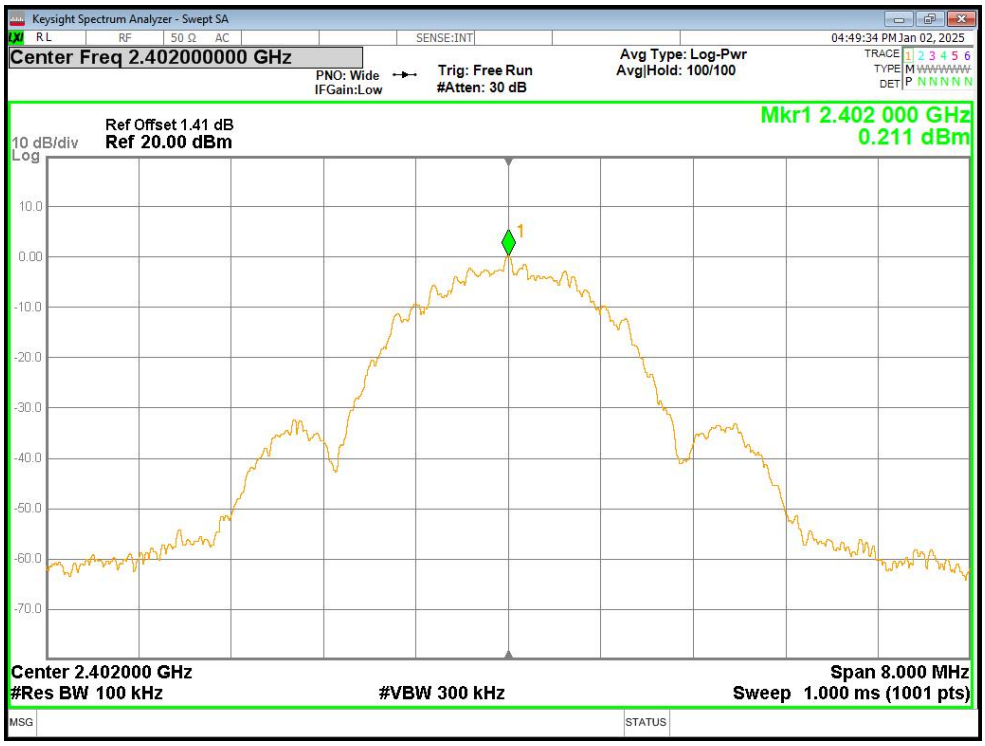
Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

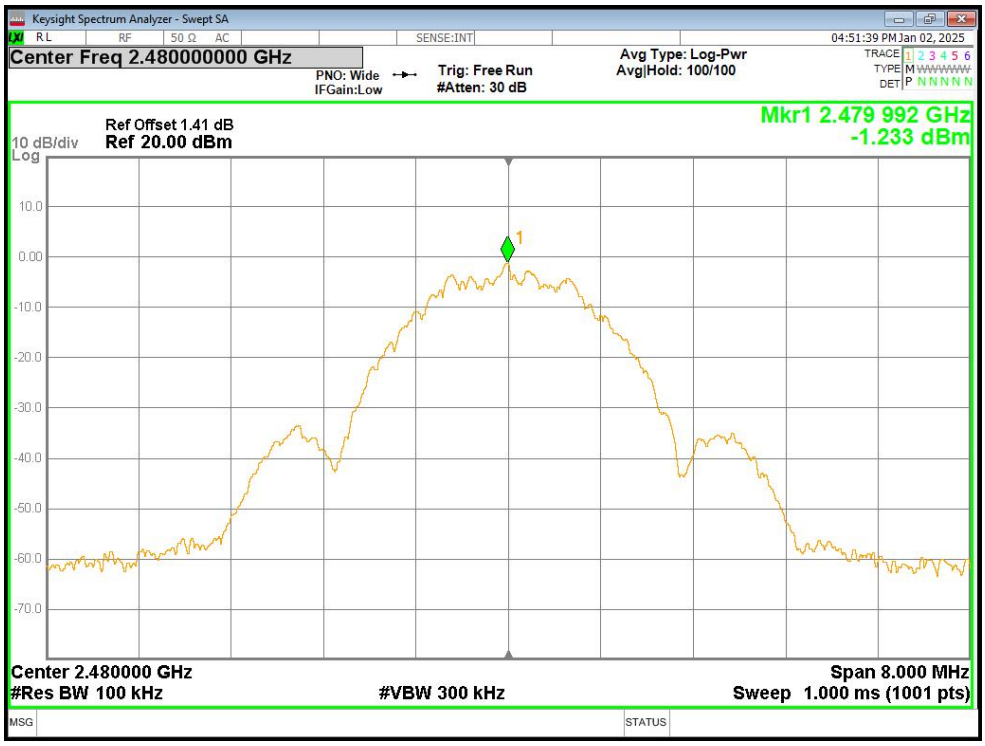


Band Edge NVNT BLE 2M 2402MHz Ant1 Ref

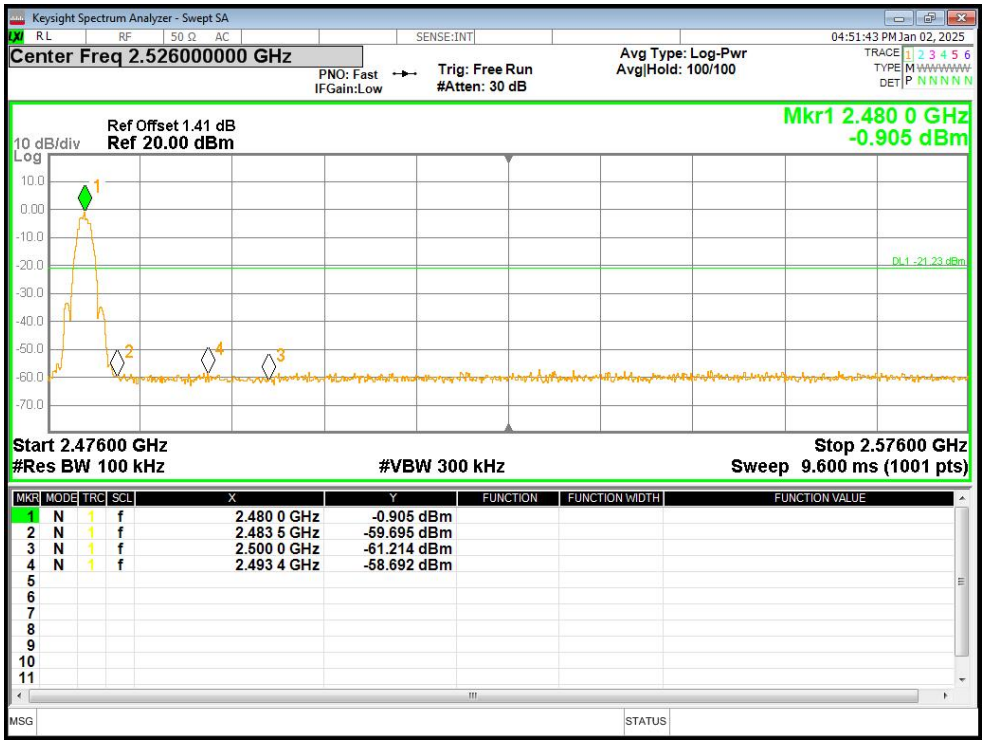


Band Edge NVNT BLE 2M 2402MHz Ant1 Emission

Band Edge NVNT BLE 2M 2480MHz Ant1 Ref



Band Edge NVNT BLE 2M 2480MHz Ant1 Emission

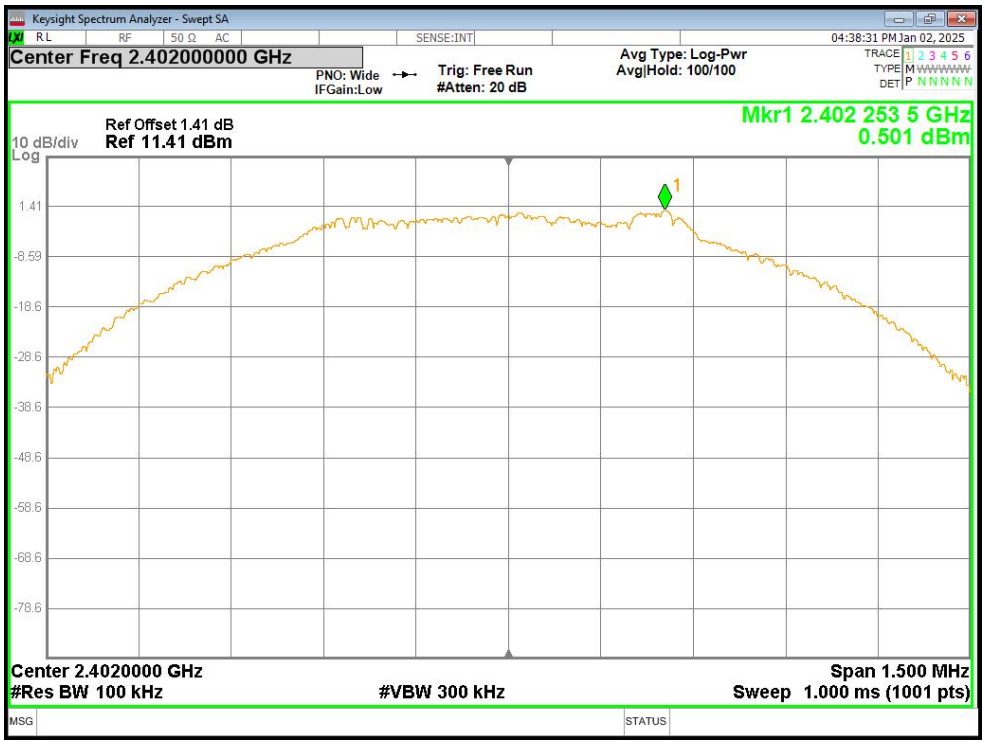


7.Conducted RF Spurious Emission

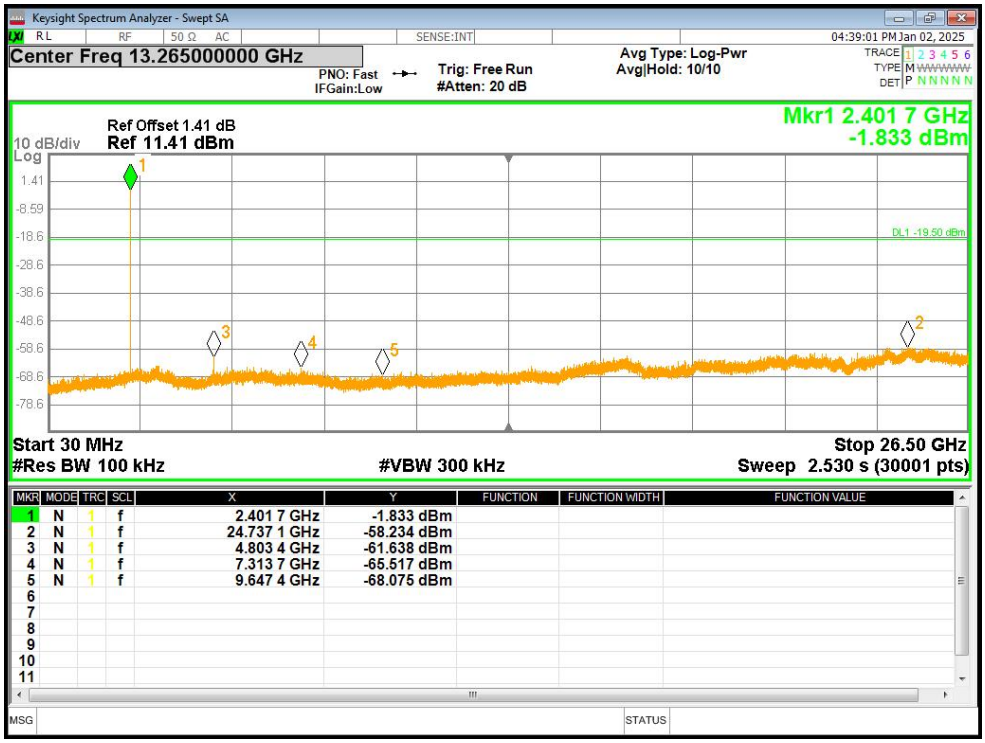
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-58.73	-20	Pass
BLE 1M	2440	-57.27	-20	Pass
BLE 1M	2480	-56.45	-20	Pass
BLE 2M	2402	-57.94	-20	Pass
BLE 2M	2440	-50.62	-20	Pass
BLE 2M	2480	-56.37	-20	Pass

Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

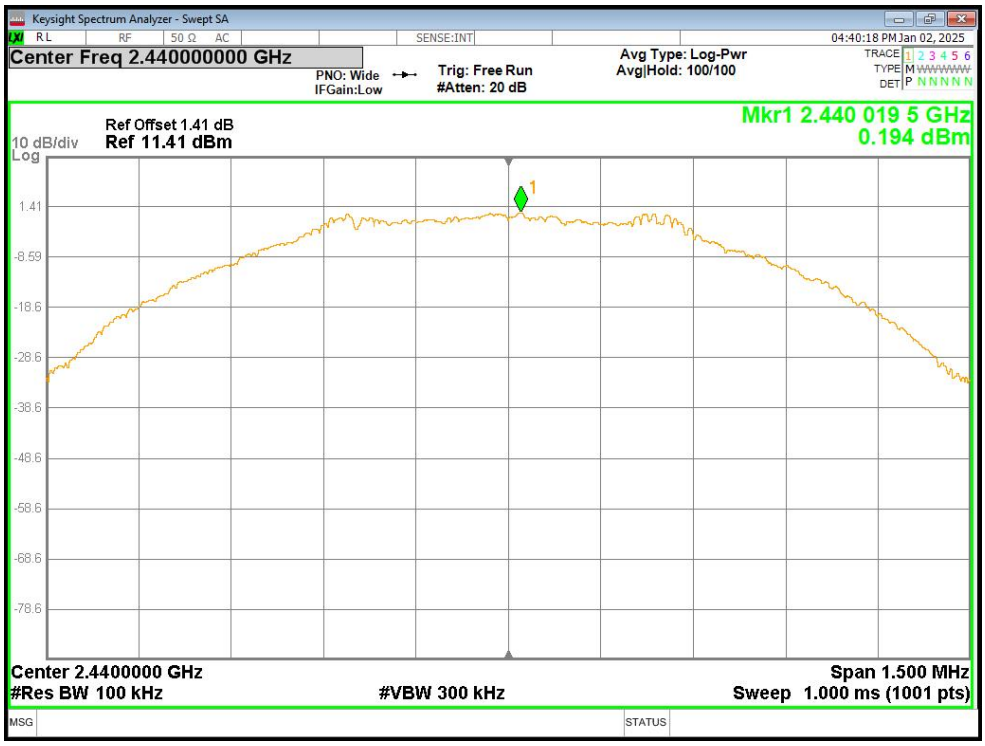


Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

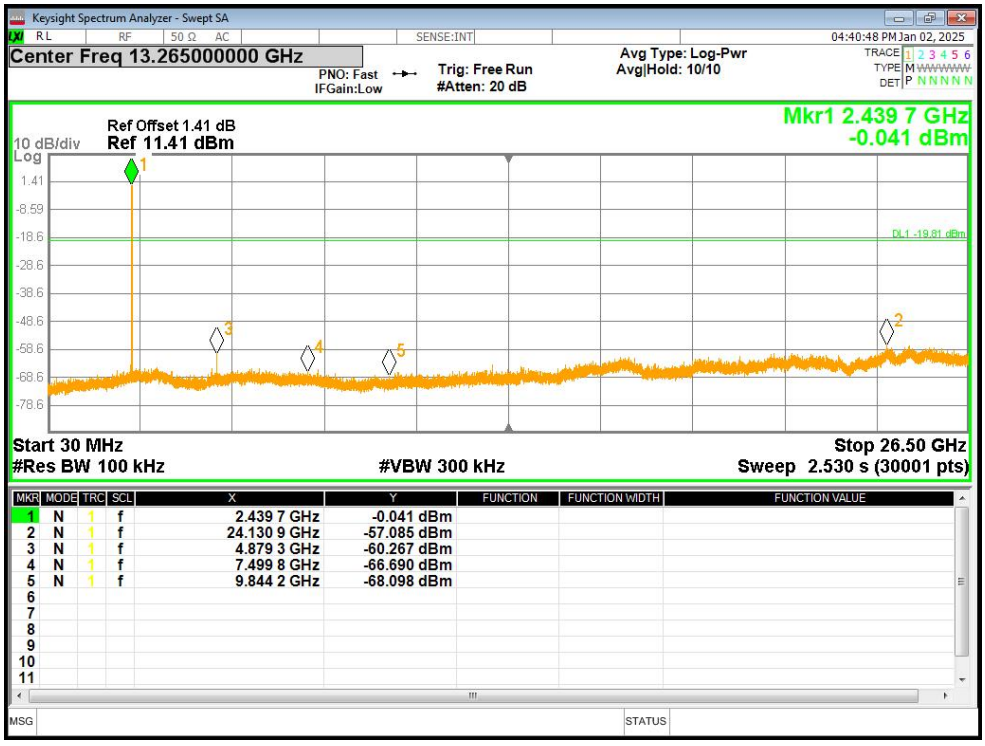


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	-1.833 dBm			
2	N	1	f	24.737 1 GHz	-58.234 dBm			
3	N	1	f	4.803 4 GHz	-61.638 dBm			
4	N	1	f	7.313 7 GHz	-65.517 dBm			
5	N	1	f	9.647 4 GHz	-68.075 dBm			
6								
7								
8								
9								
10								
11								

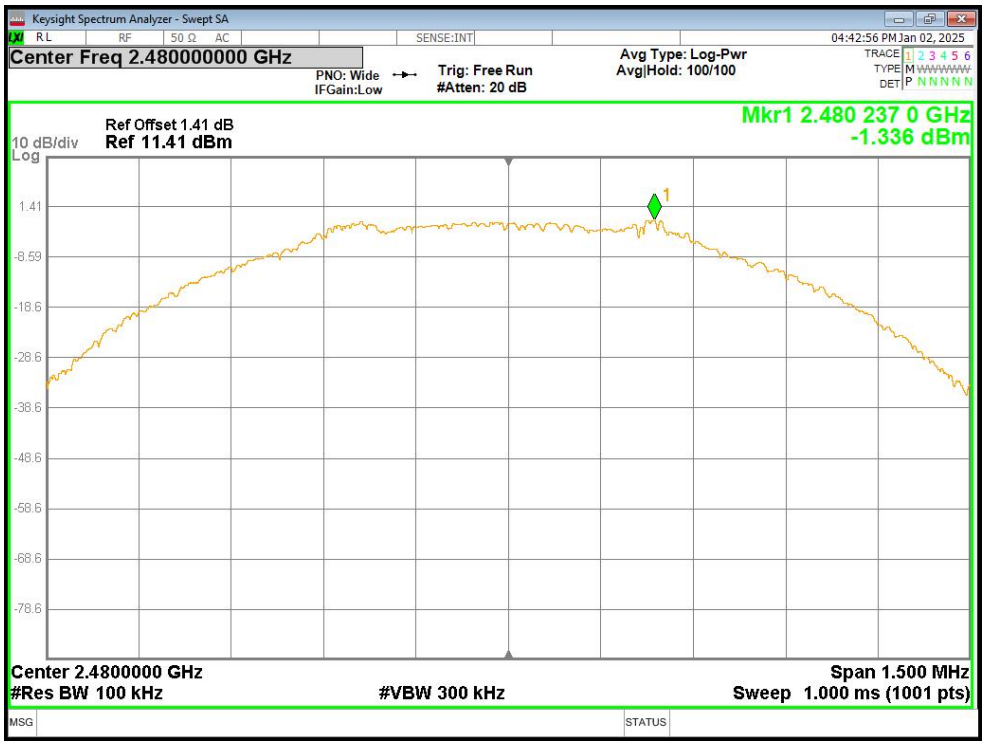
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



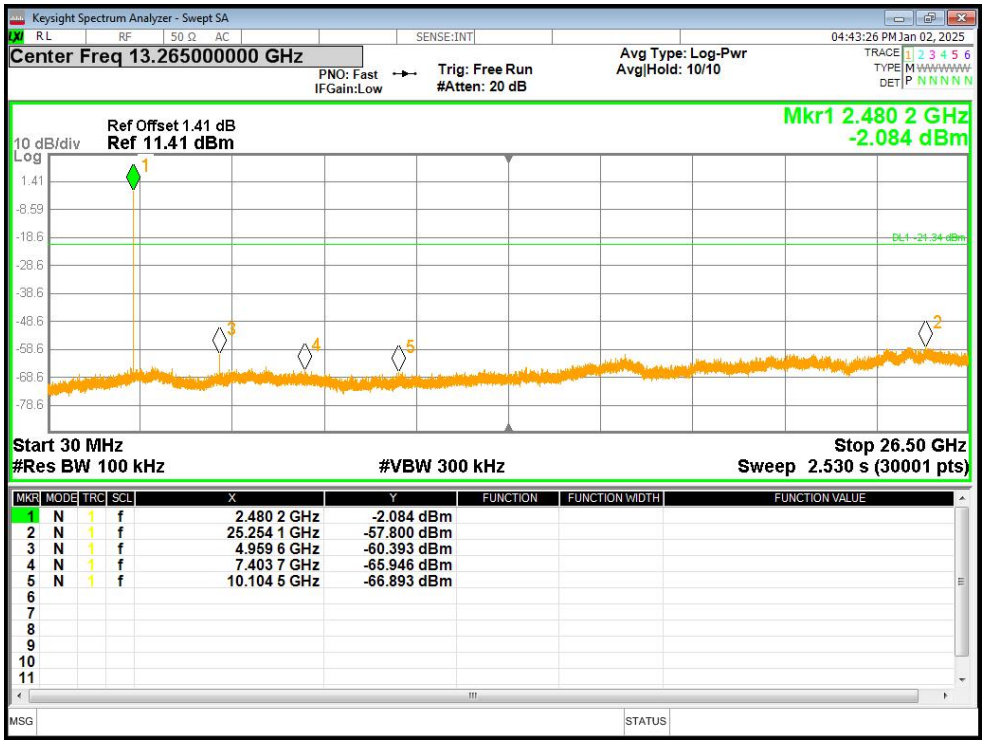
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



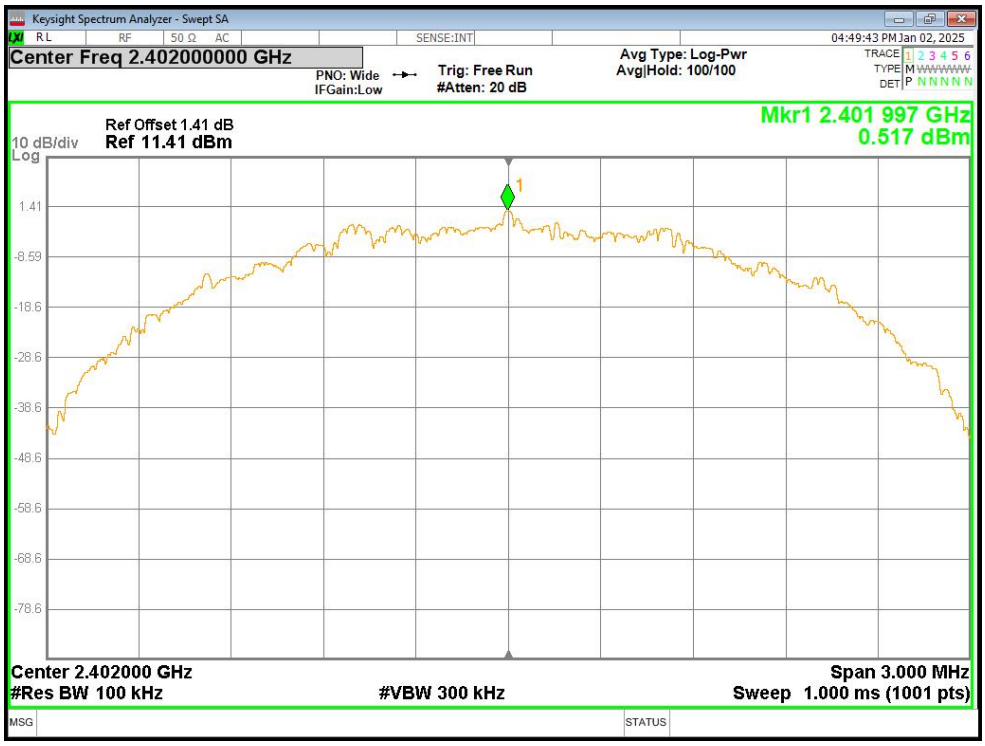
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



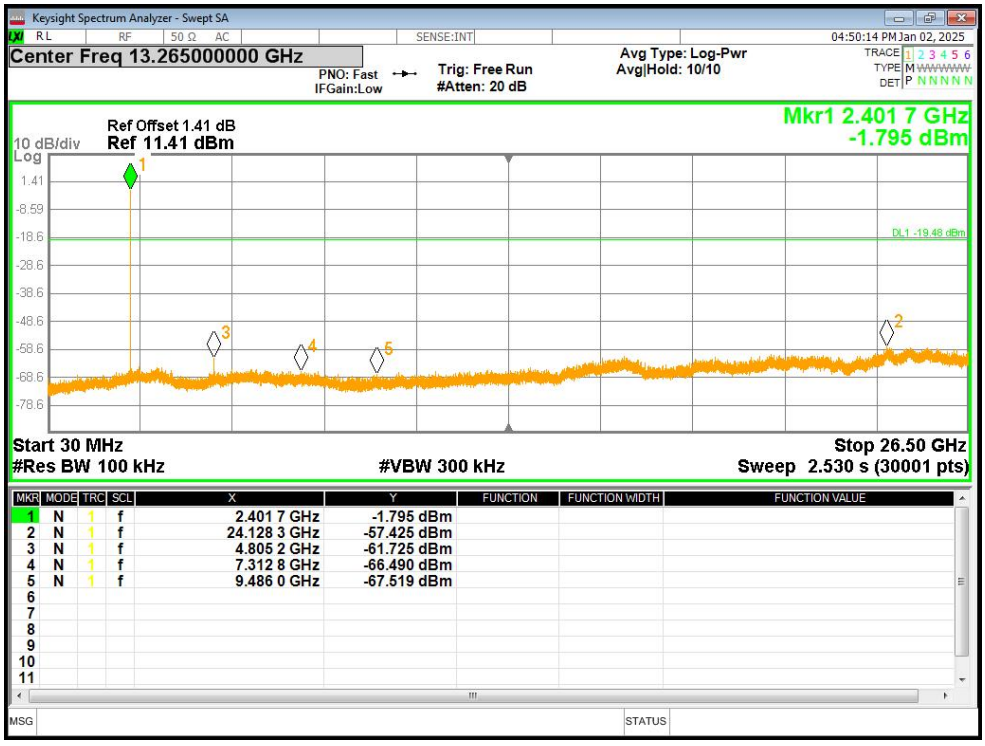
Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Ref

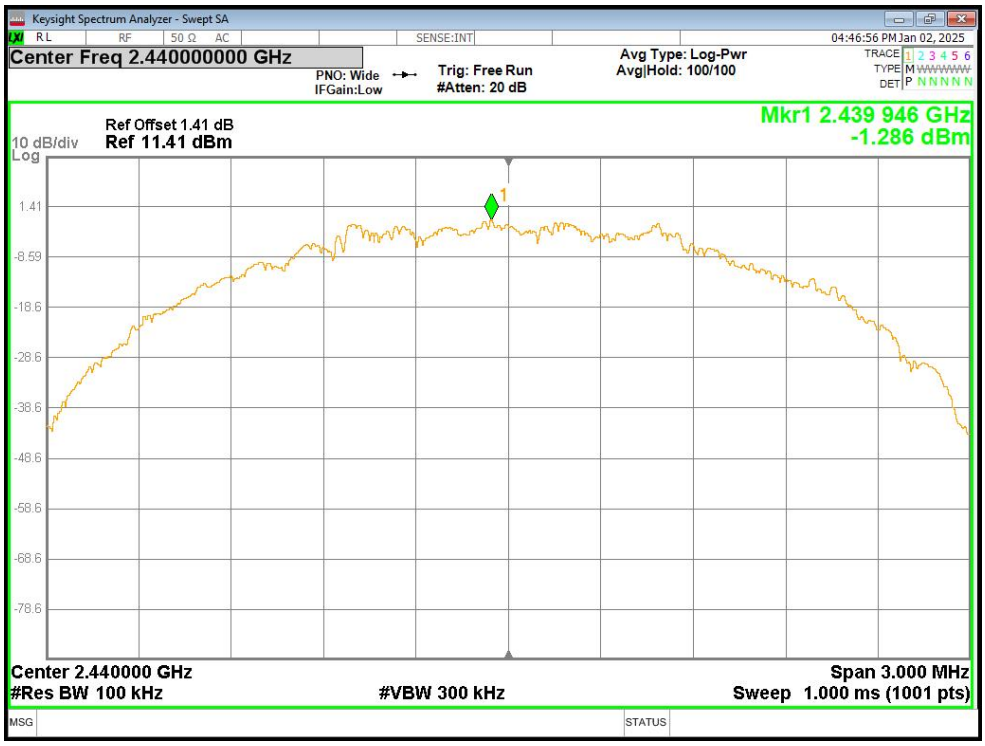


Tx. Spurious NVNT BLE 2M 2402MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	-1.795 dBm			
2	N	1	f	24.128 3 GHz	-57.425 dBm			
3	N	1	f	4.805 2 GHz	-61.725 dBm			
4	N	1	f	7.312 8 GHz	-66.490 dBm			
5	N	1	f	9.486 0 GHz	-67.519 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



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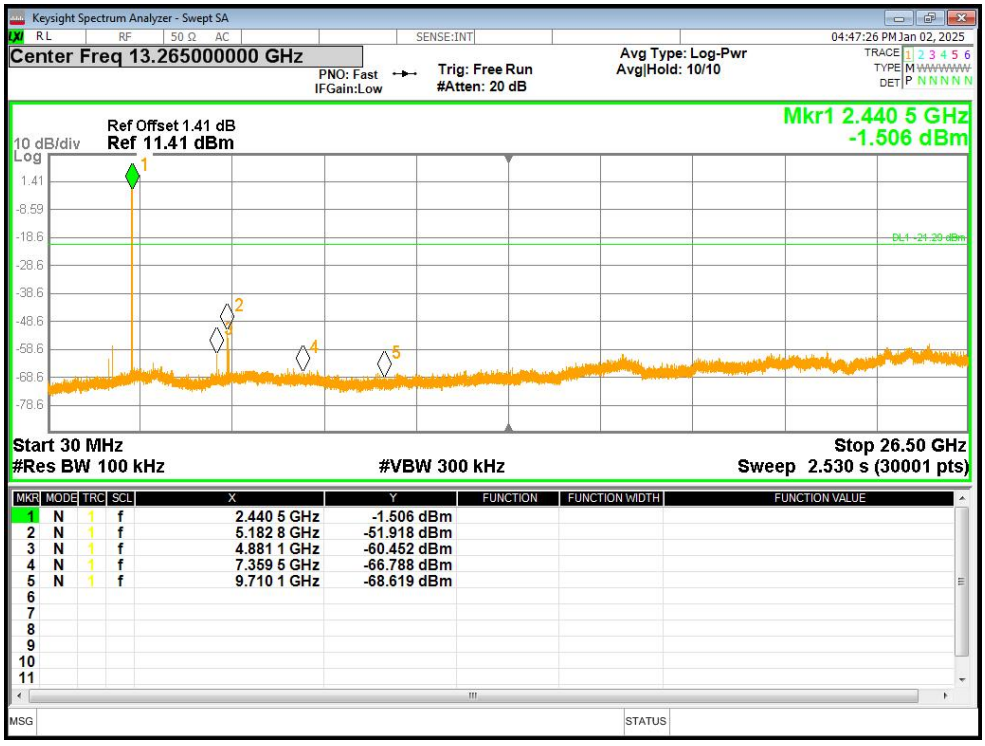
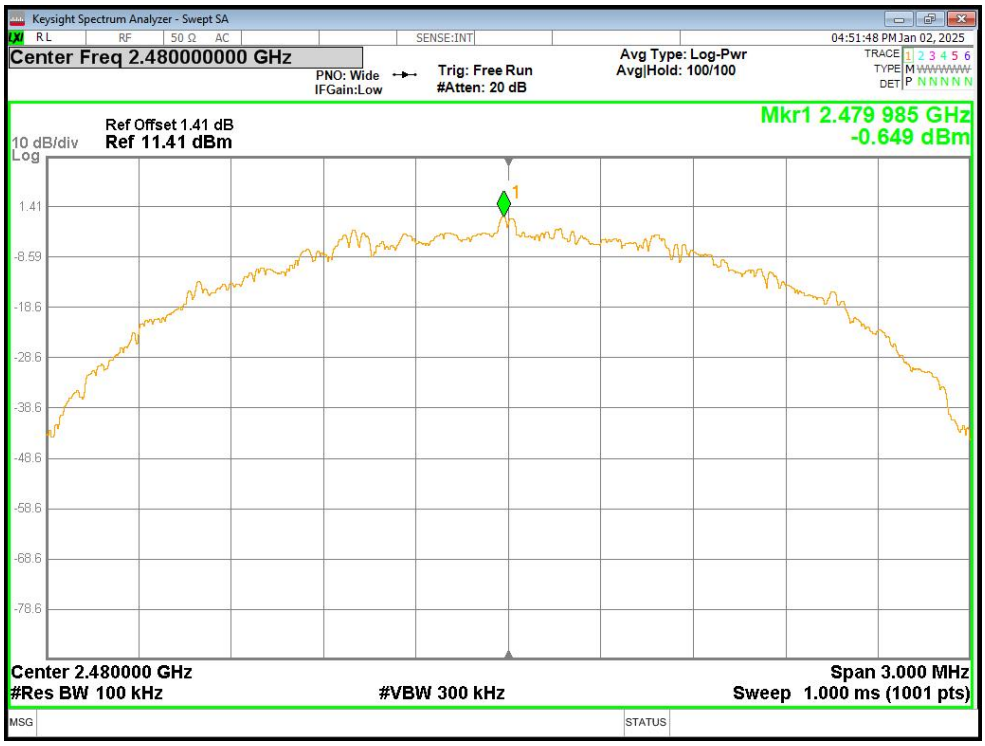
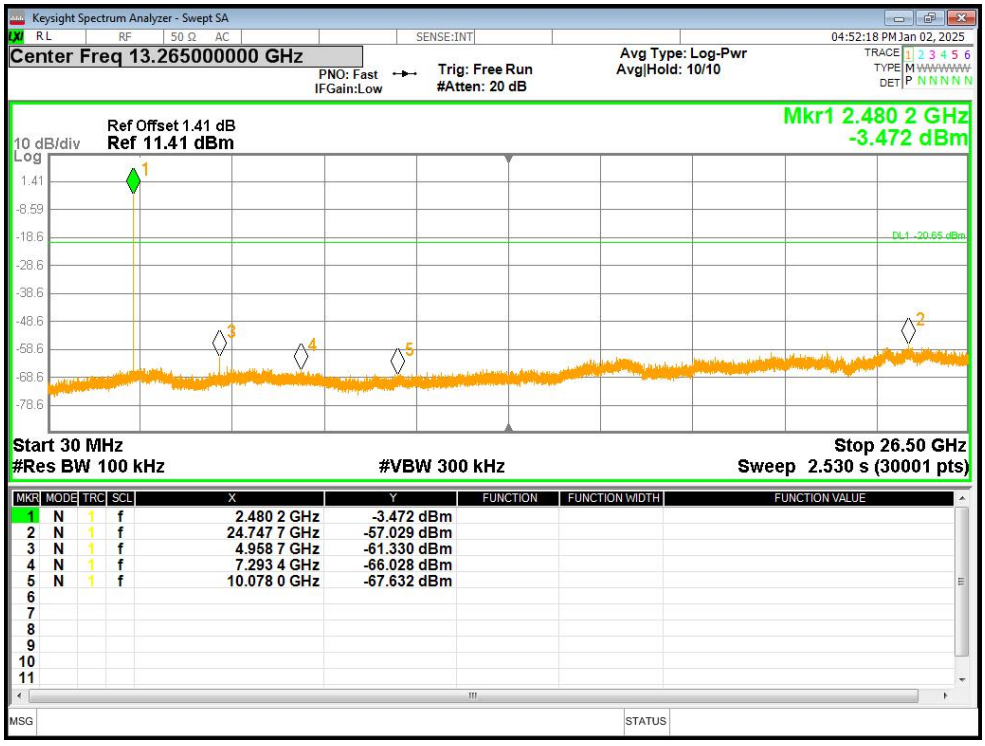


Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission