

Appendix for 15.247

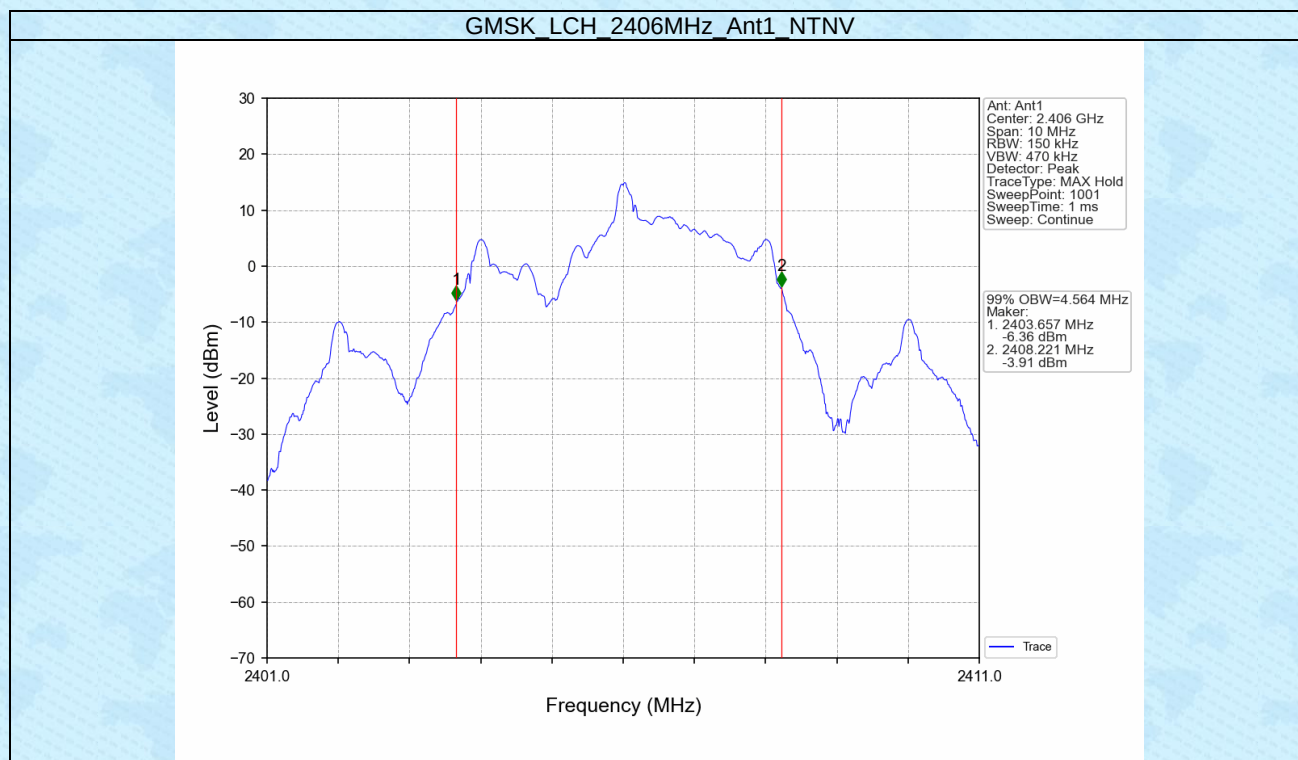
1. Bandwidth

1.1 OBW

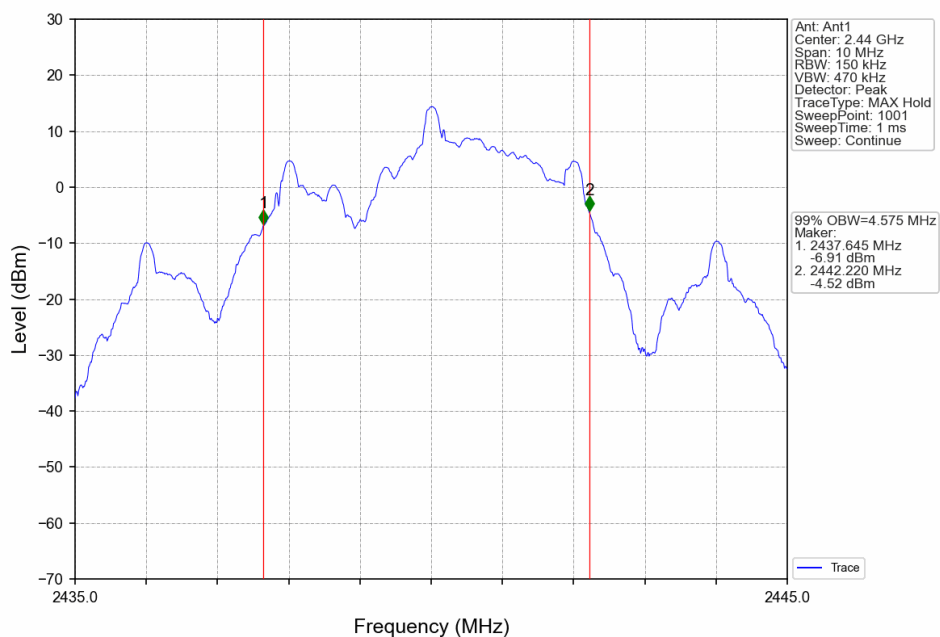
1.1.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)	Verdict
				Result	
GMSK	SISO	2406	1	4.564	Pass
		2440	1	4.575	Pass
		2472	1	4.608	Pass

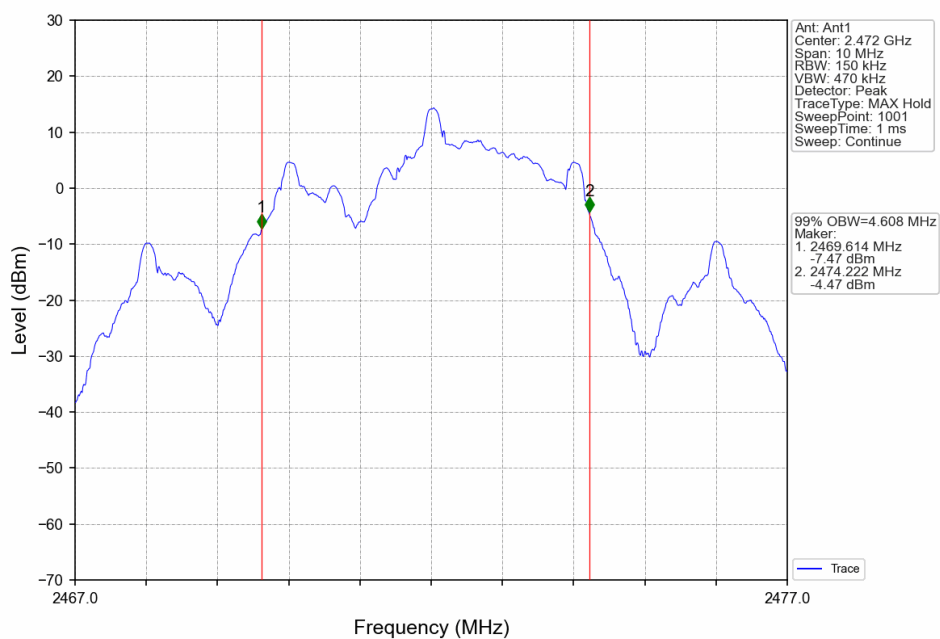
1.1.2 Test Graph



GMSK MCH 2440MHz_Ant1_NTNV



GMSK HCH 2472MHz_Ant1_NTNV

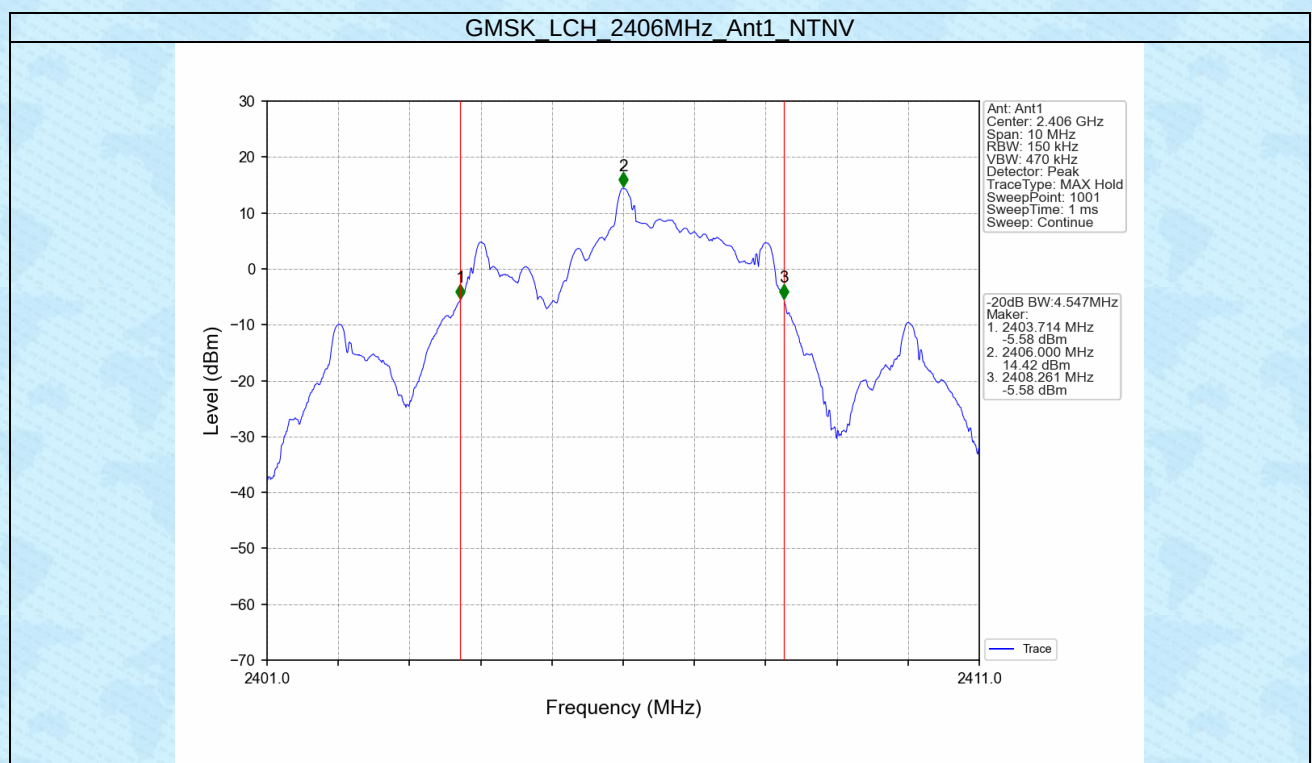


1.2 20dB BW

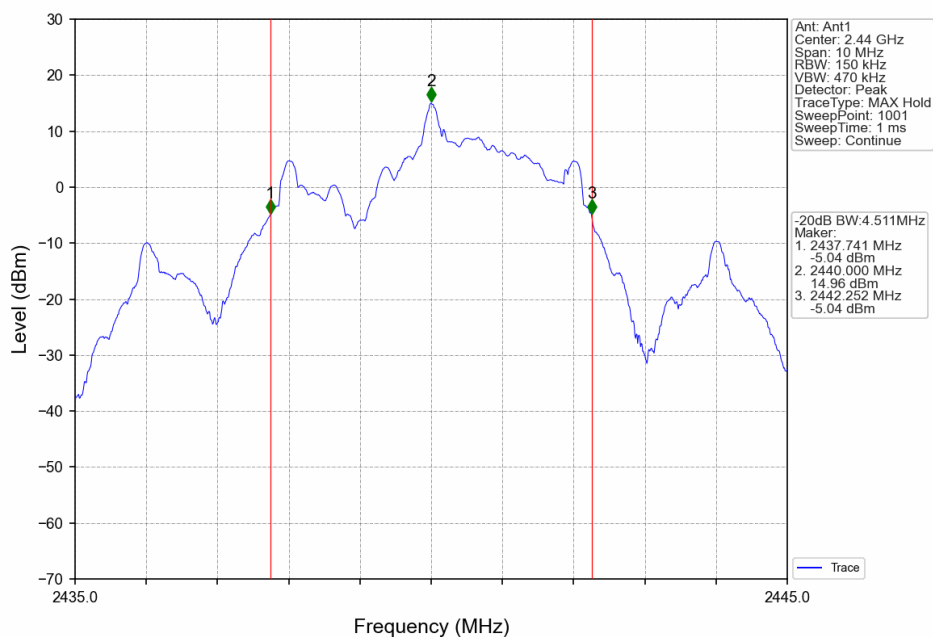
1.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	20dB Bandwidth (MHz)	Verdict
				Result	
GMSK	SISO	2406	1	4.547	Pass
		2440	1	4.511	Pass
		2472	1	4.545	Pass

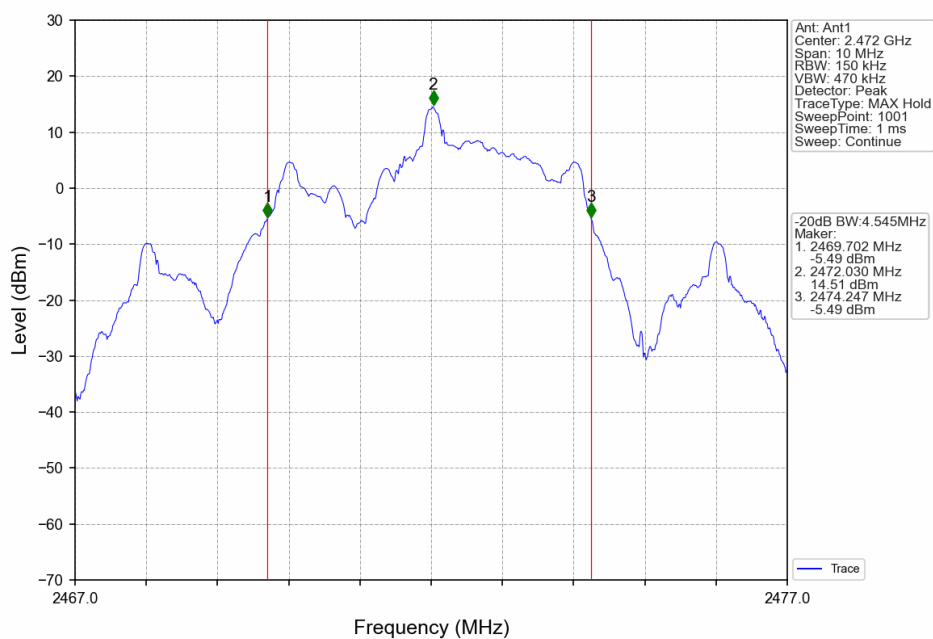
1.2.2 Test Graph



GMSK MCH 2440MHz_Ant1_NTNV



GMSK HCH 2472MHz_Ant1_NTNV



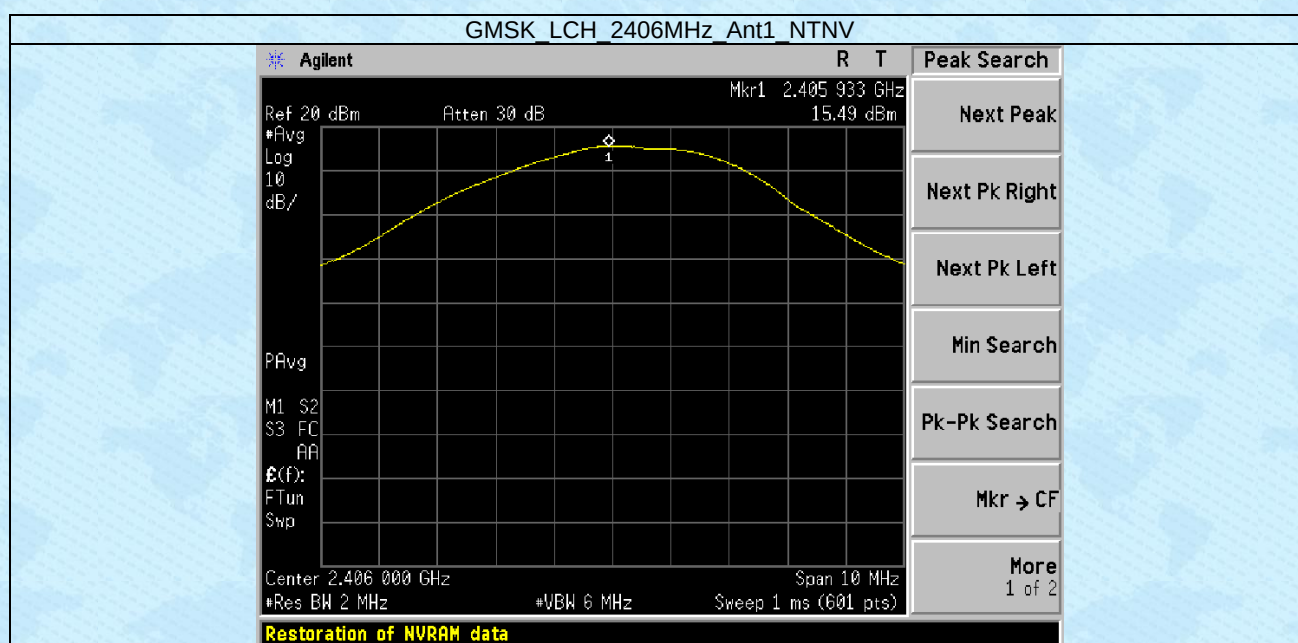
2. Maximum Conducted Output Power

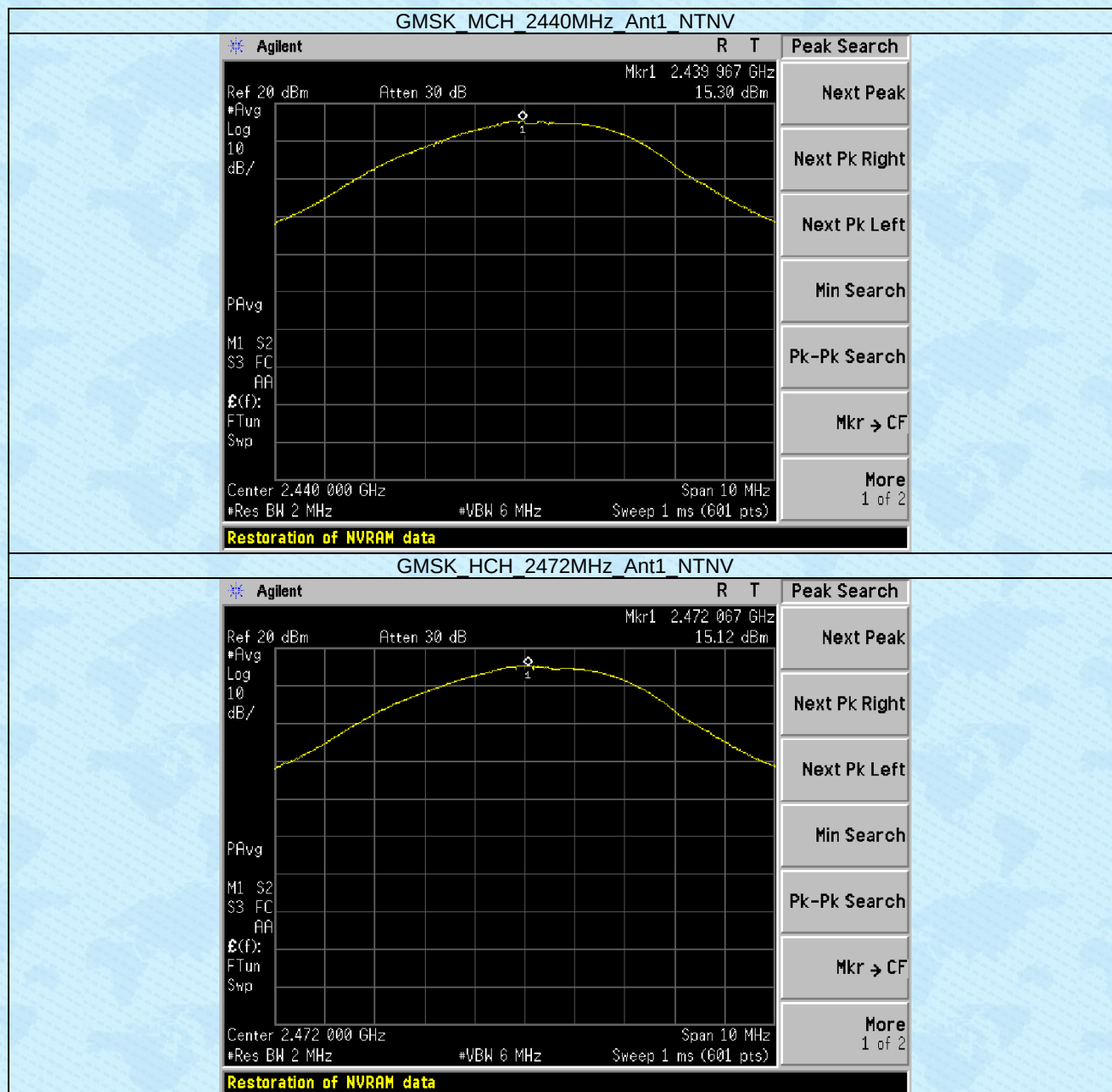
2.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
GMSK	SISO	2406	15.49	<=20.97	Pass
		2440	15.30	<=20.97	Pass
		2472	15.12	<=20.97	Pass

Note1: Antenna Gain: Ant1: 0.76dBi;

2.2 Test Graph



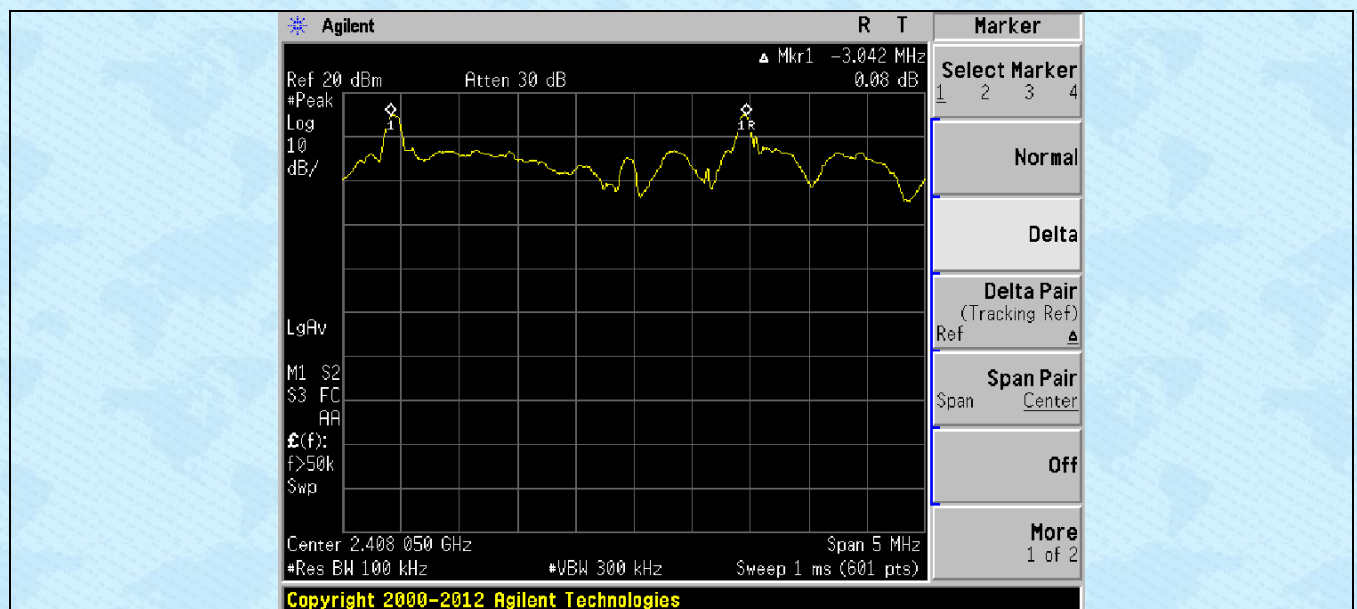


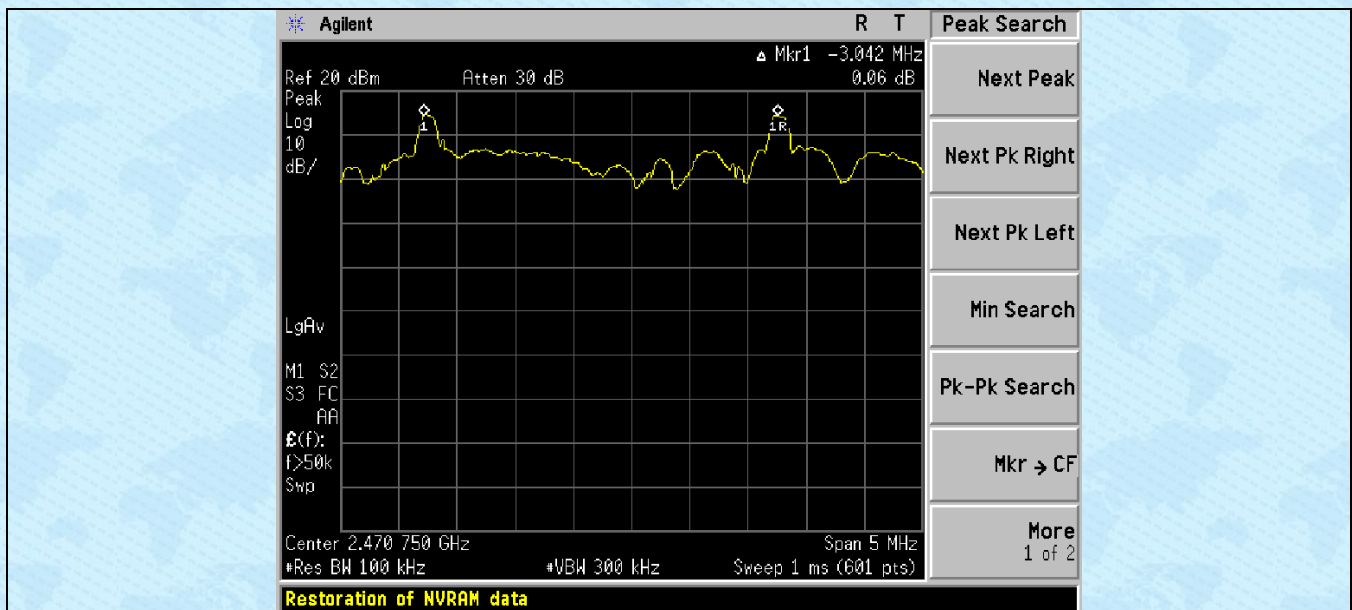
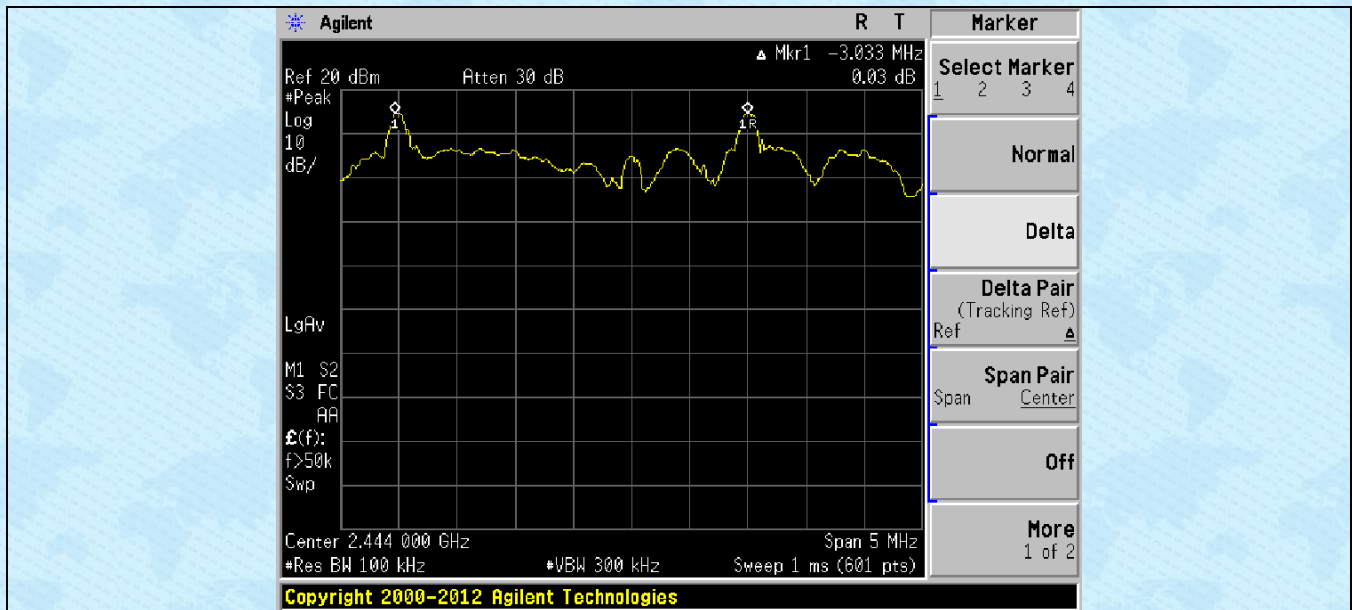
3. Carrier Frequency Separation

3.1 Test Result

ANT No.	Test channel	Carrier Frequencies Separation (kHz)	Limit (kHz)	Result
1	Lowest	3042	3031	Pass
	Middle	3033	3007	Pass
	Highest	3042	3030	Pass

3.2 Test Graph



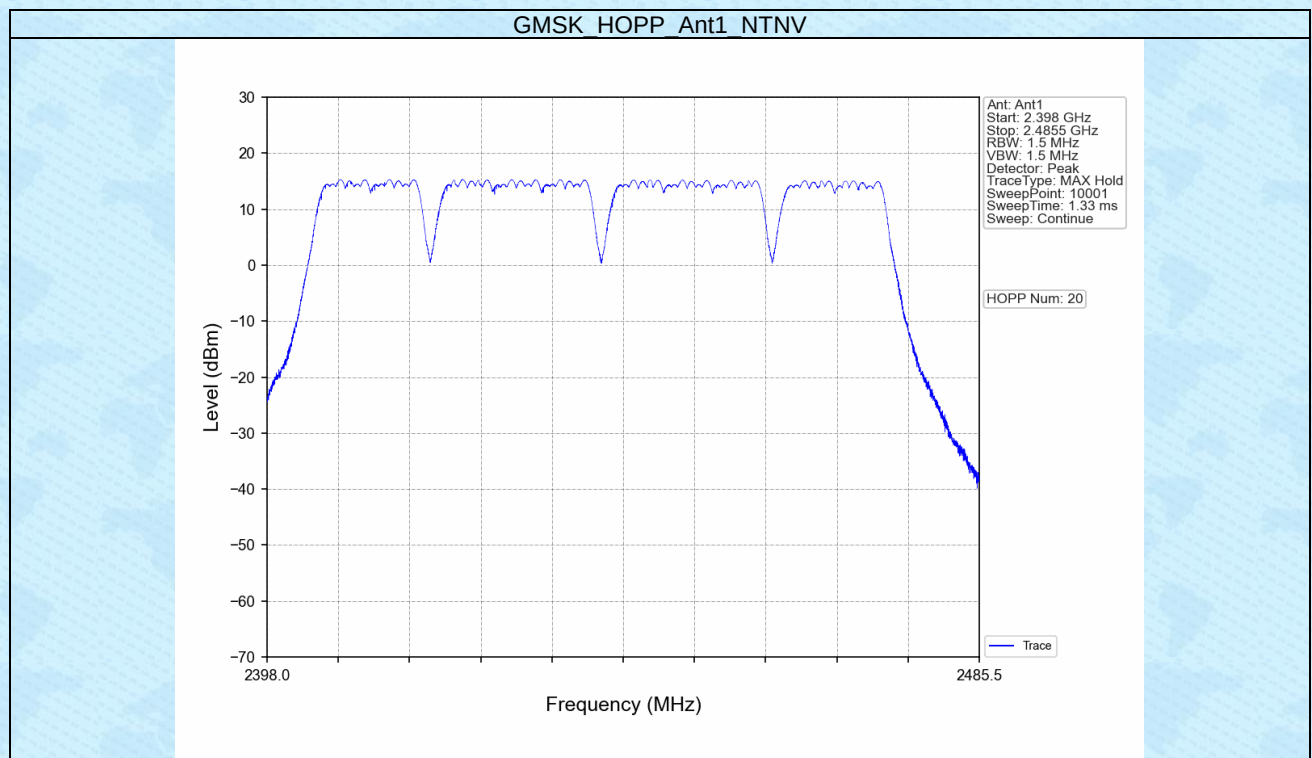


4. Number of Hopping Frequencies

4.1 Test Result

Mode	TX Type	Frequency (MHz)	Num of Hopping Frequencies		Verdict
			ANT1	Limit	
GMSK	SISO	HOPP	20	>=15	Pass

4.2 Test Graph



5. Time of Occupancy (Dwell Time)

5.1 Test Result

ANT No.	Test channel	Ton (ms)	Dwell time(ms)	Limit(ms)	Result
1	Lowest	3.800	243.20	400	Pass
	Middle	3.800	243.20	400	Pass
	Highest	3.833	245.31	400	Pass

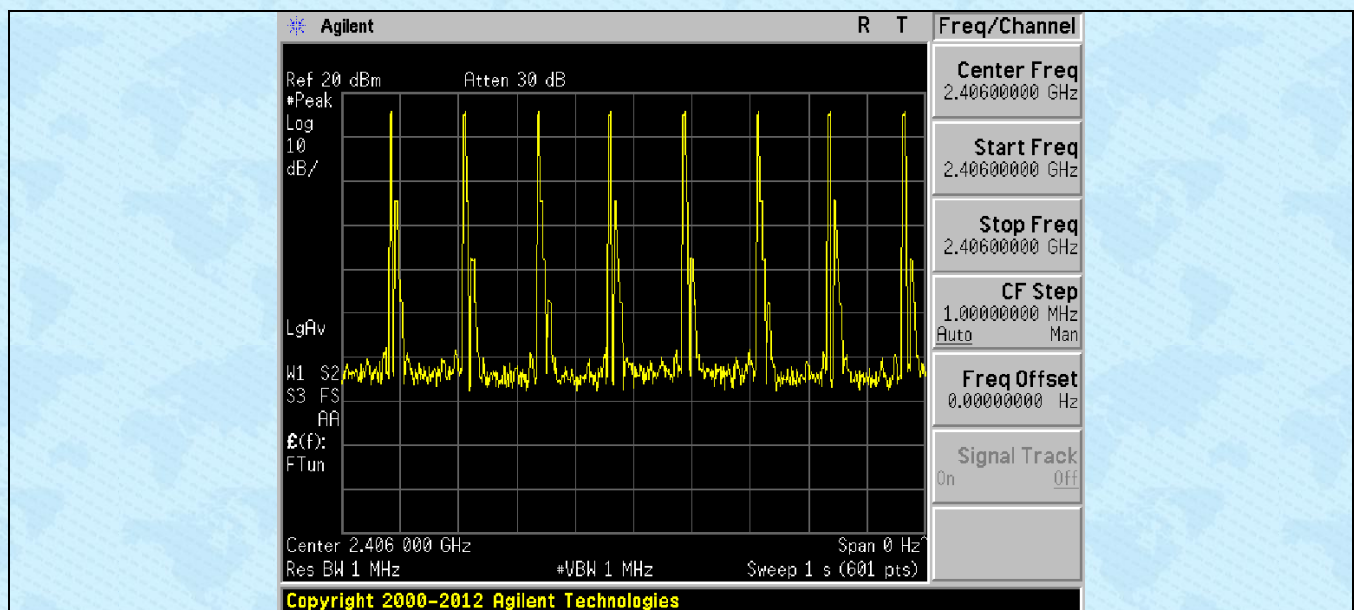
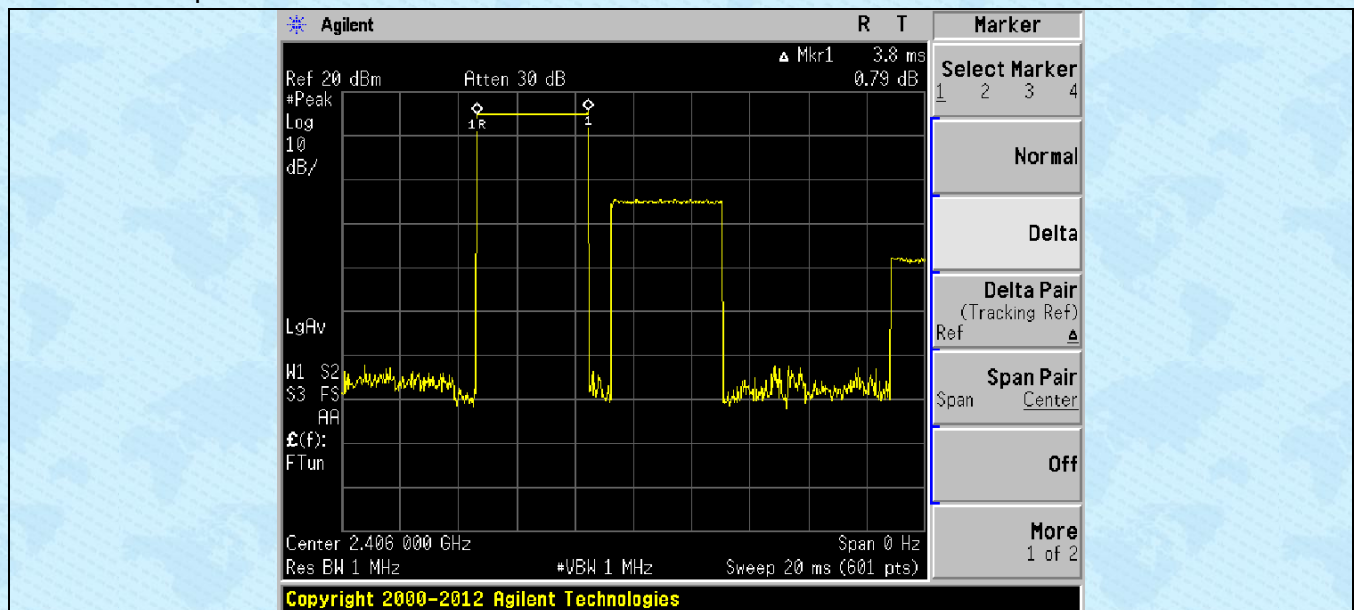
The formula as below:

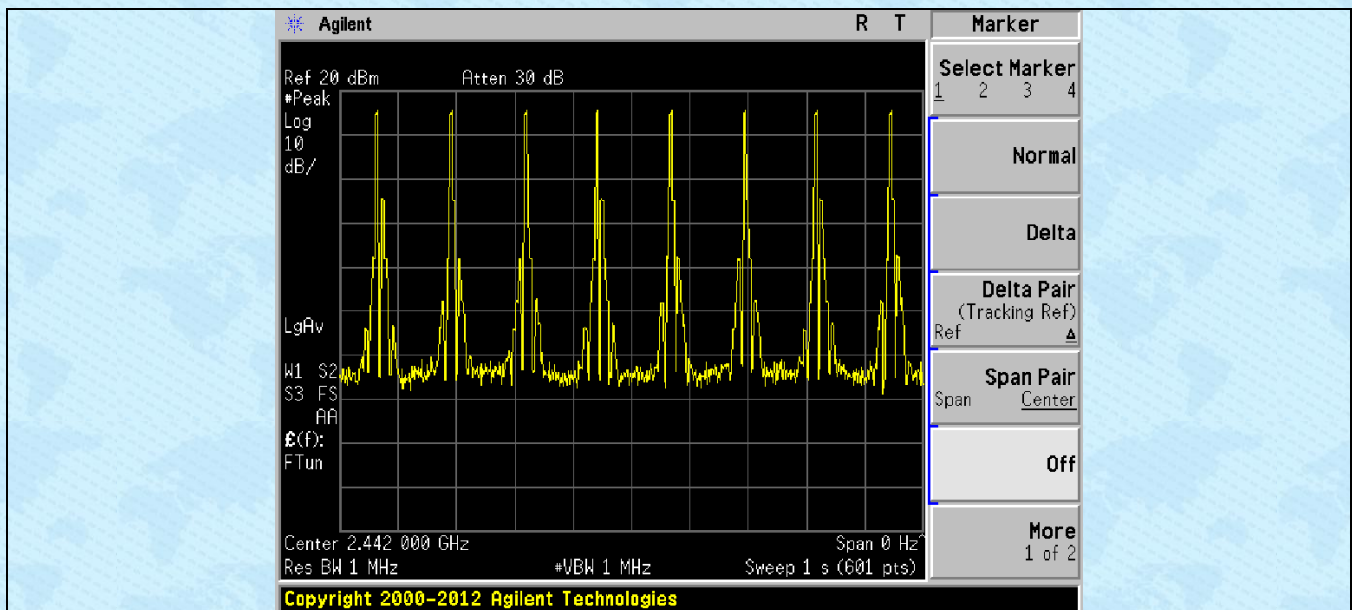
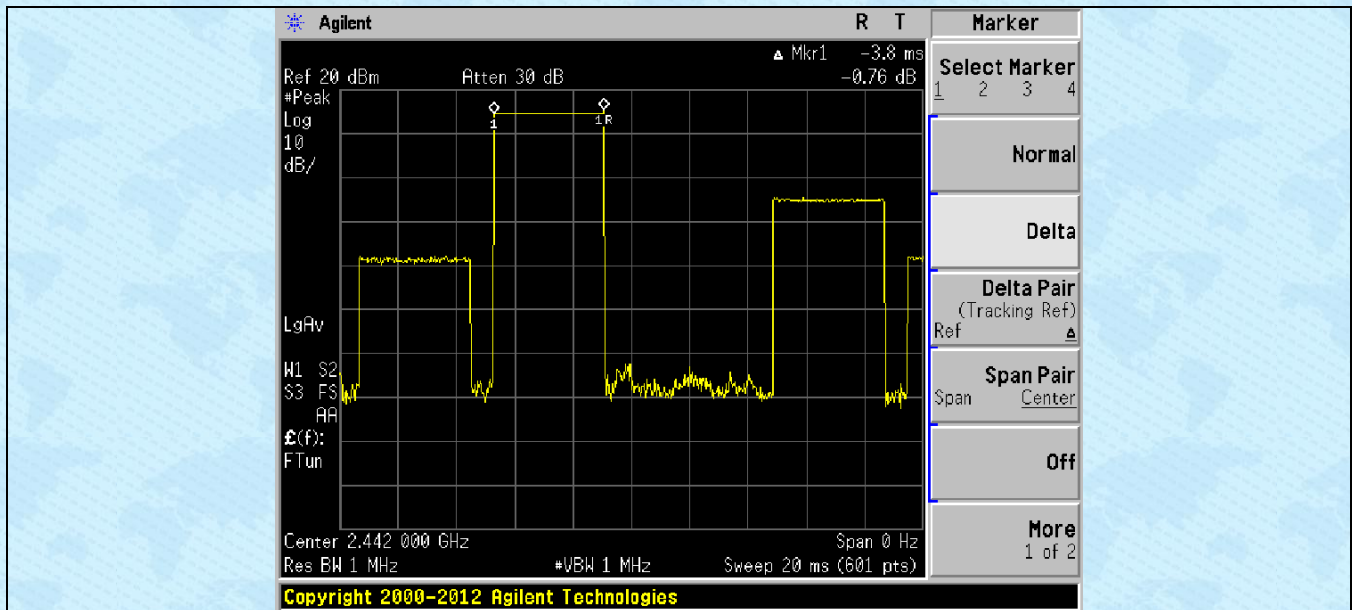
Lowest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.800ms*8*0.4*20=243.20ms

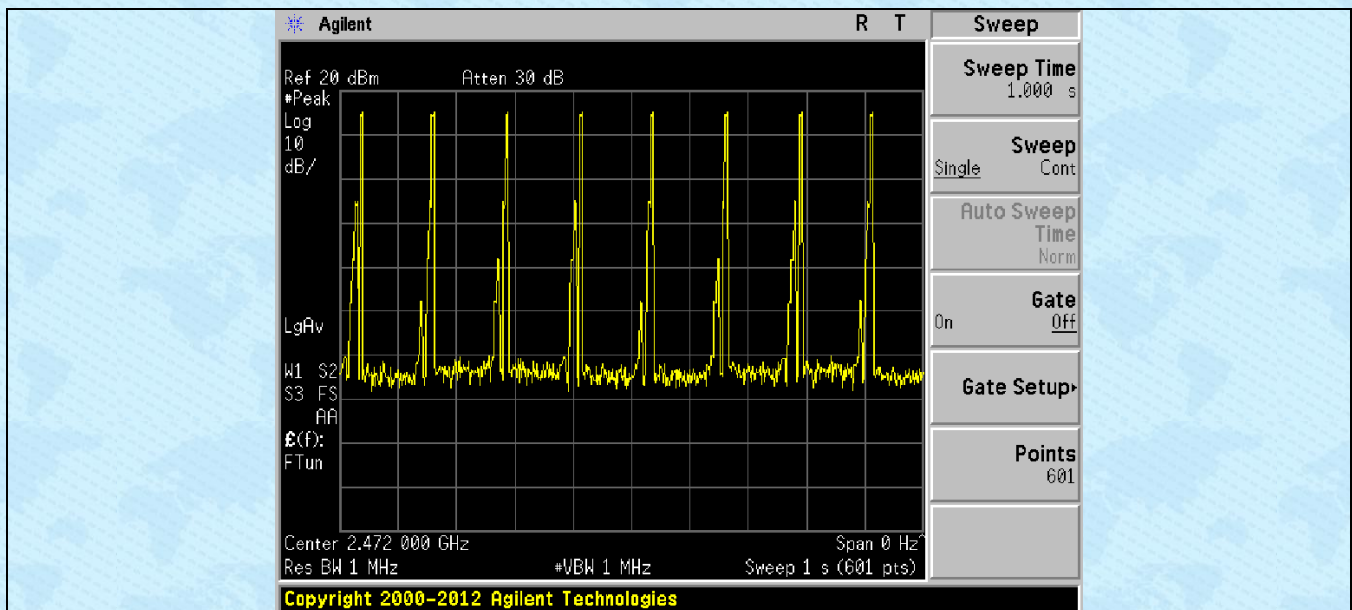
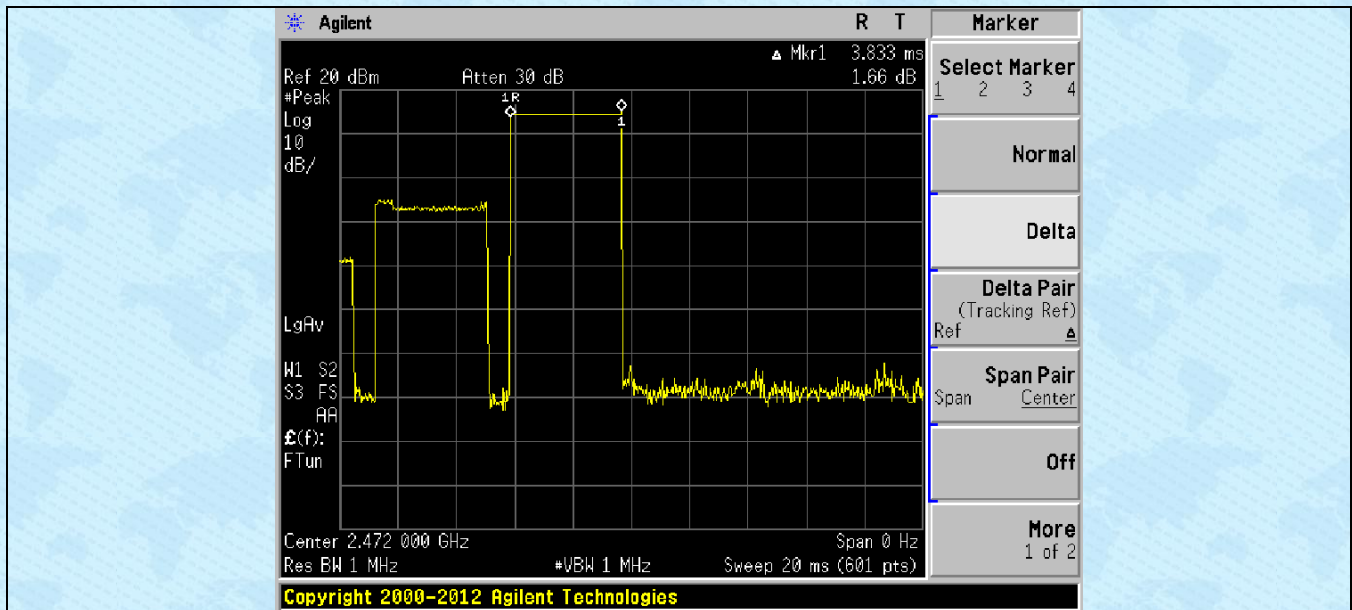
Middle: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.800ms*8*0.4*20=243.20ms

Highest: Dwell time = Ton * Ton times in 1s * 0.4s * channel numbers=3.833ms*8*0.4*20=245.31ms

5.2 Test Graph







6. Unwanted Emissions In Non-restricted Frequency Bands

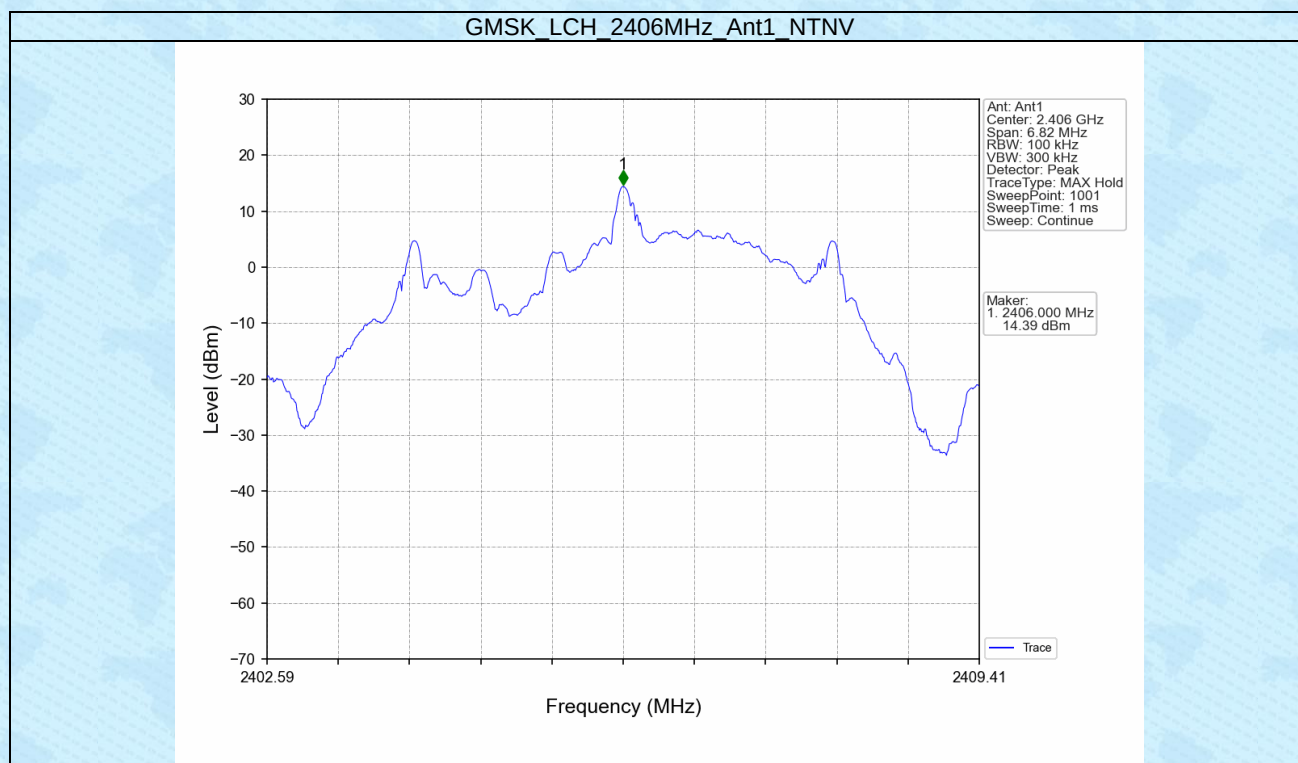
6.1 Ref

6.1.1 Test Result

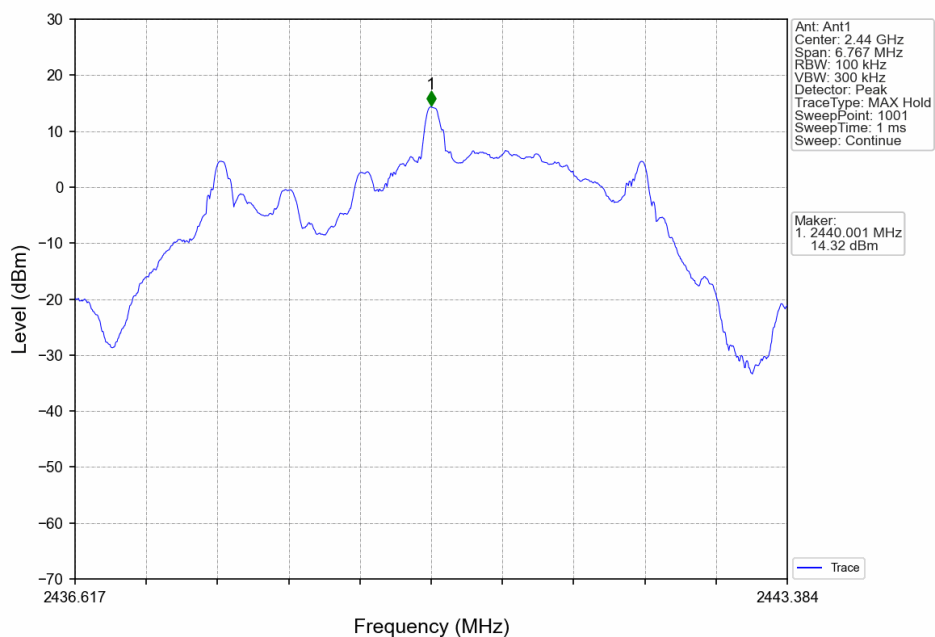
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
GMSK	SISO	2406	1	14.39
		2440	1	14.32
		2472	1	14.11

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10:2013, the channel contains the maximum PSD level was used to establish the reference level.

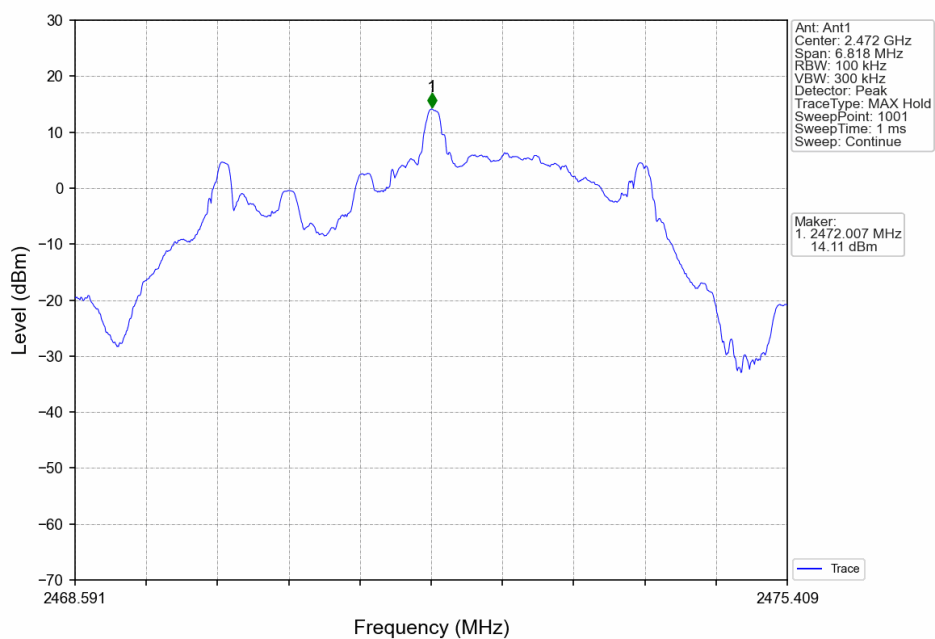
6.1.2 Test Graph



GMSK MCH 2440MHz_Ant1_NTNV



GMSK HCH 2472MHz_Ant1_NTNV



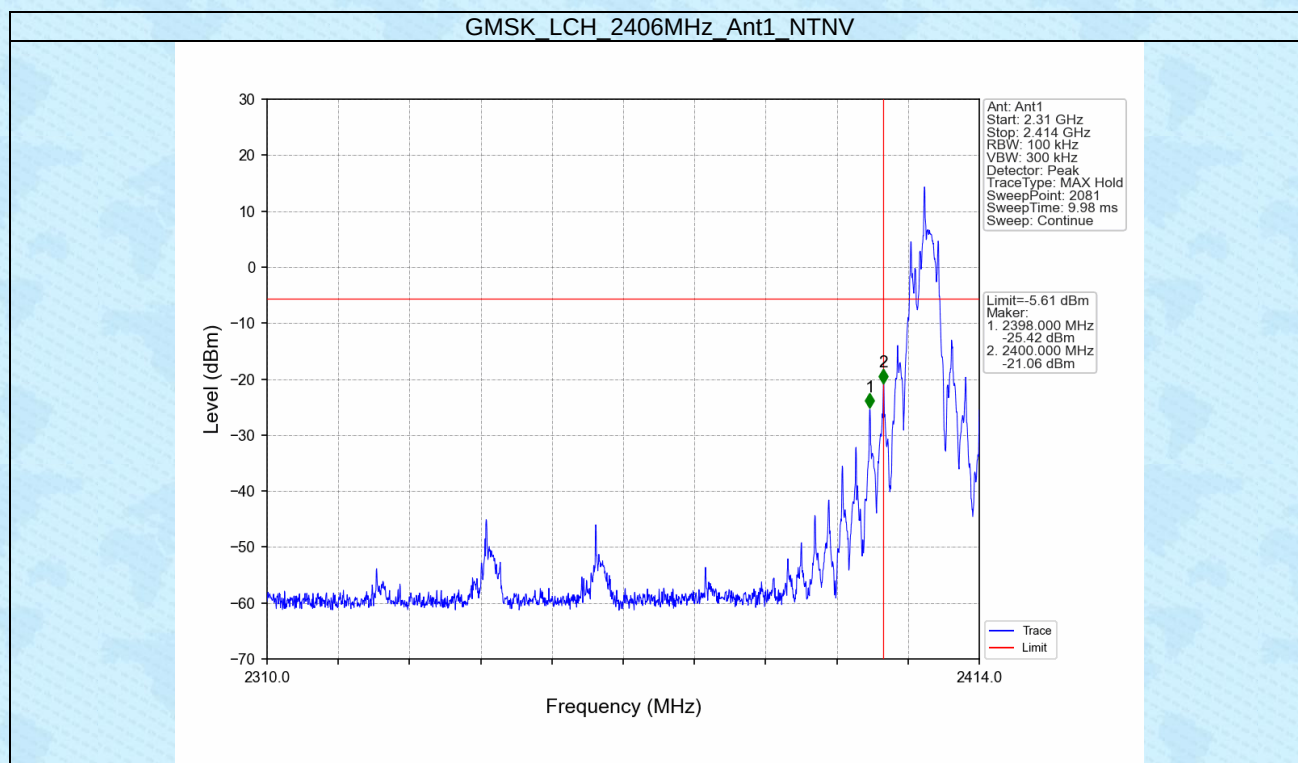
6.2 CSE

6.2.1 Test Result

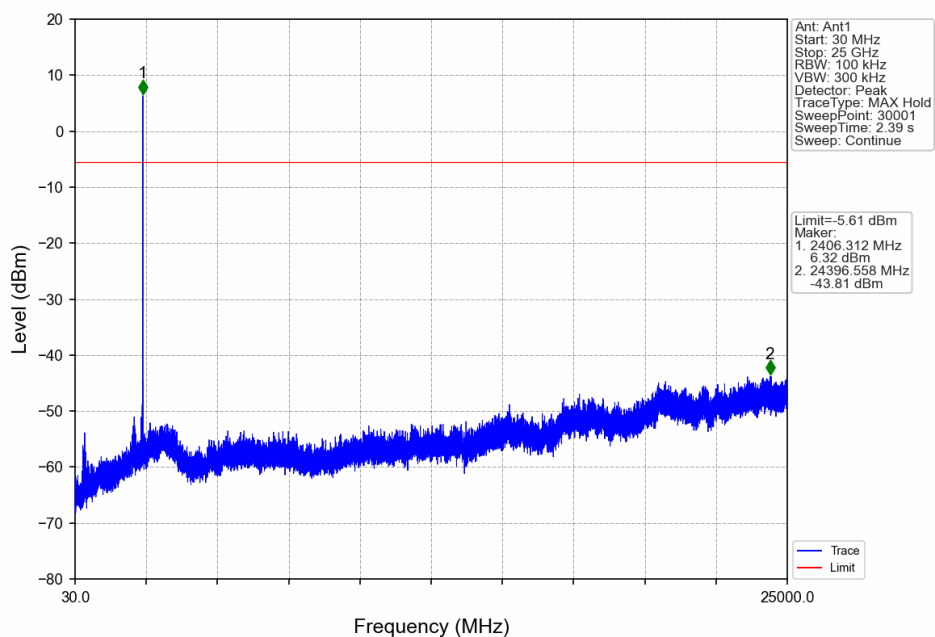
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GMSK	SISO	2406	1	14.11	-15.89	Pass
		2440	1	14.11	-15.89	Pass
		2472	1	14.11	-15.89	Pass
		HOPP	1	14.11	-15.89	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10:2013, the channel contains the maximum PSD level was used to establish the reference level.

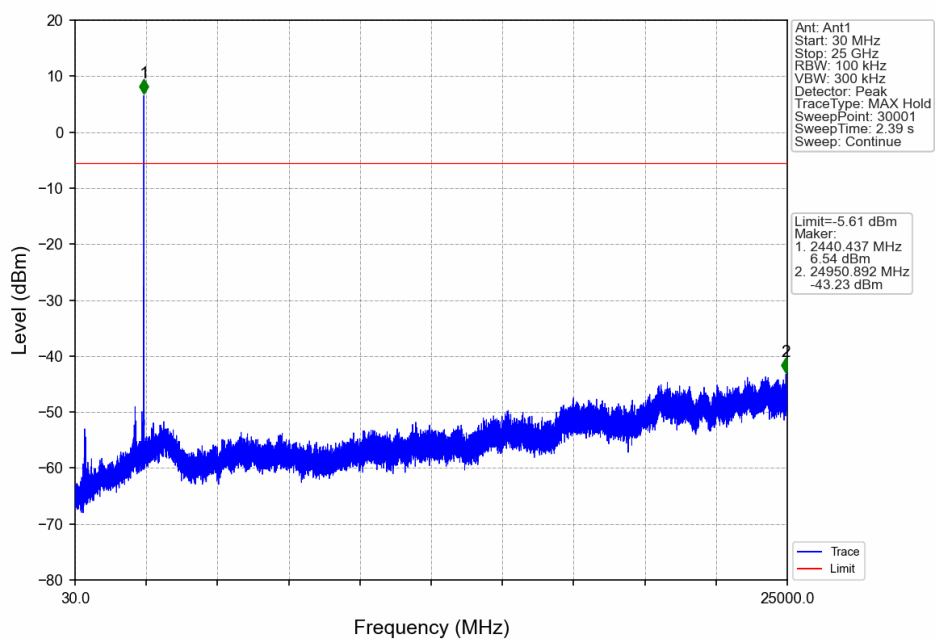
6.2.2 Test Graph



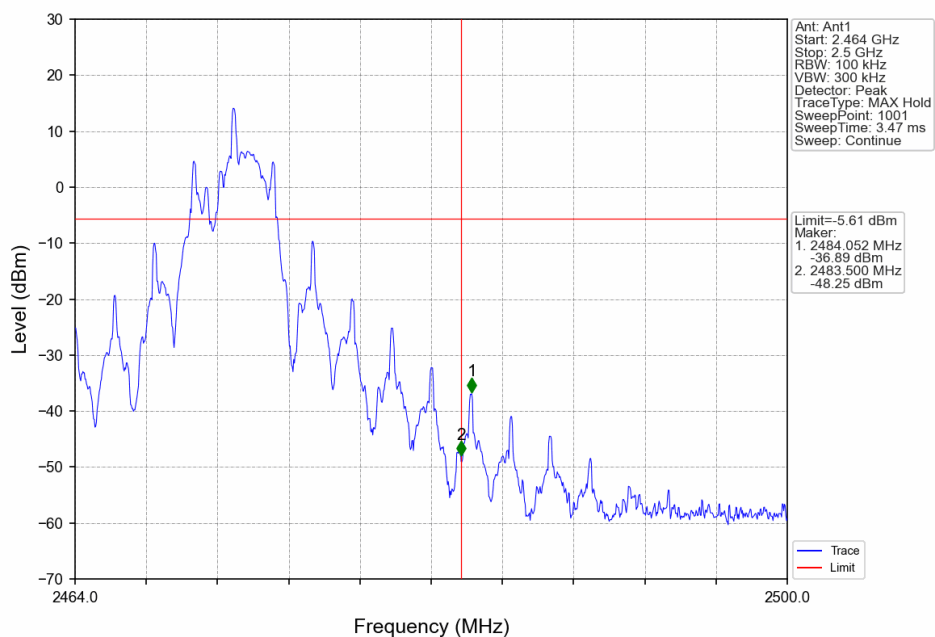
GMSK_LCH_2406MHz_Ant1_NTNV



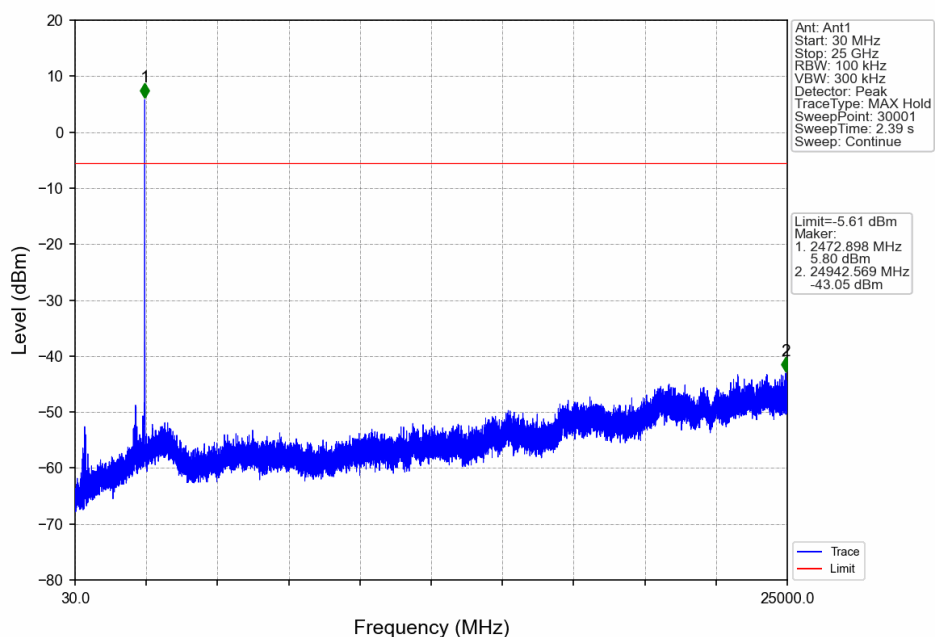
GMSK_MCH_2440MHz_Ant1_NTNV

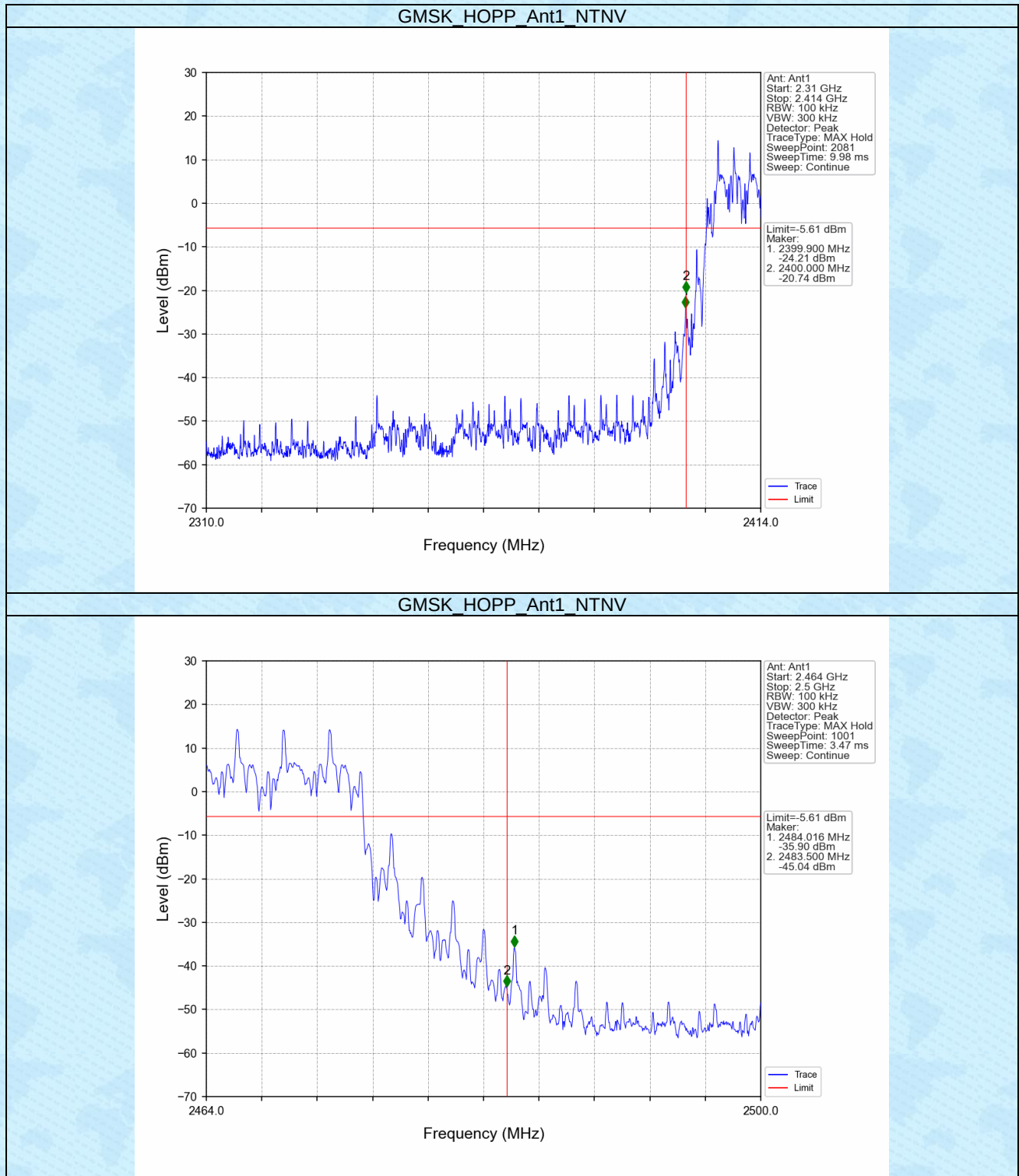


GMSK_HCH_2472MHz_Ant1_NTNV



GMSK_HCH_2472MHz_Ant1_NTNV





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