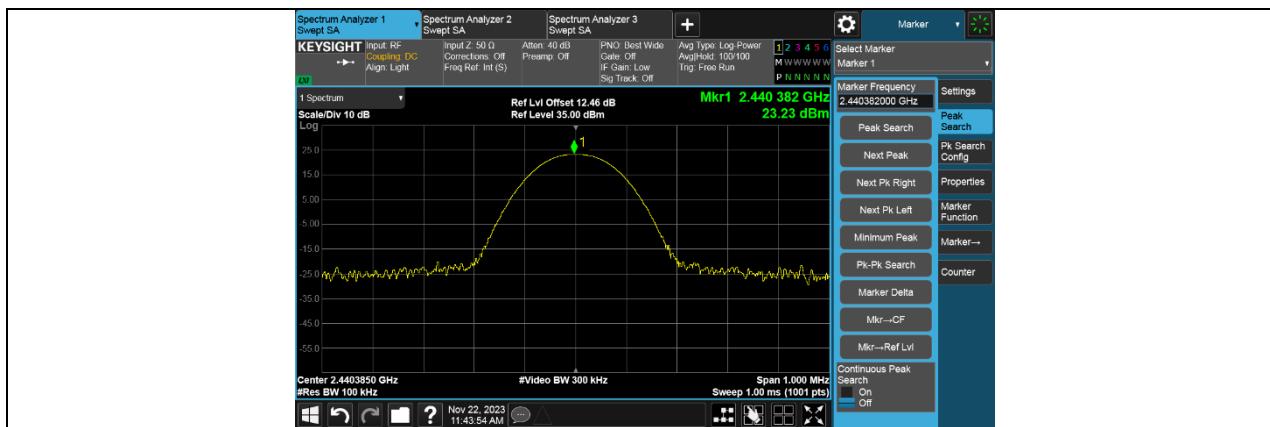


11.6.2. Test Graphs

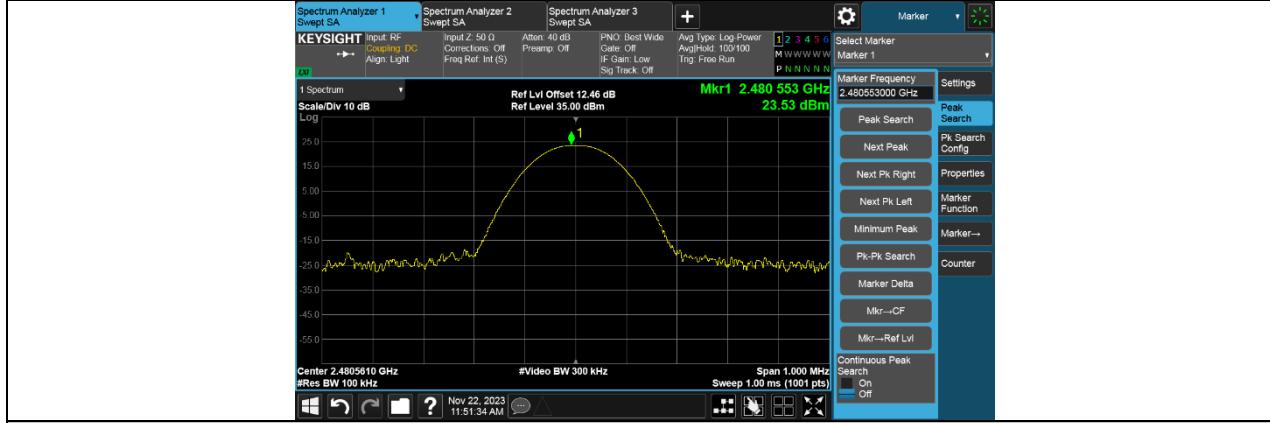




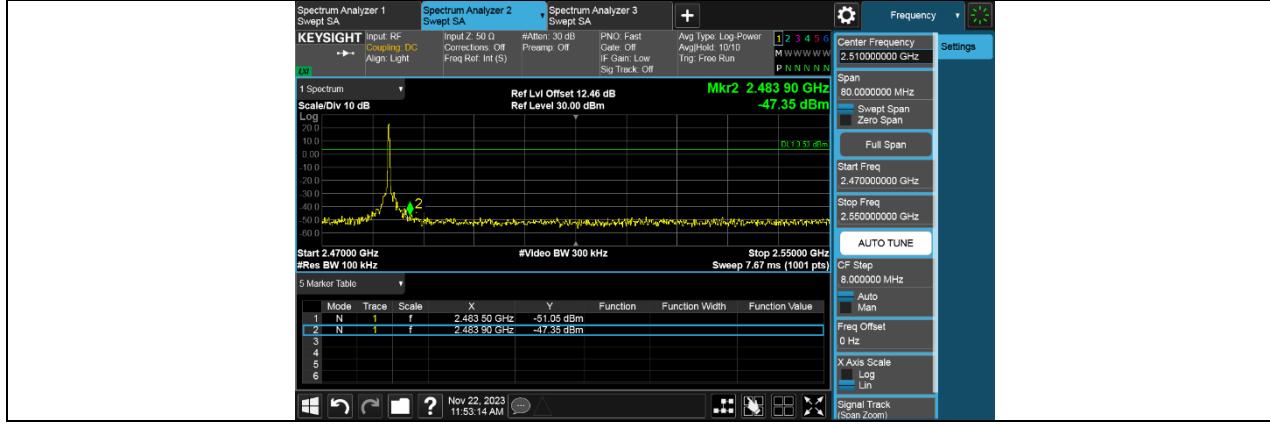
2GFSK-25 kbps_Ant1_ MCH_Reference

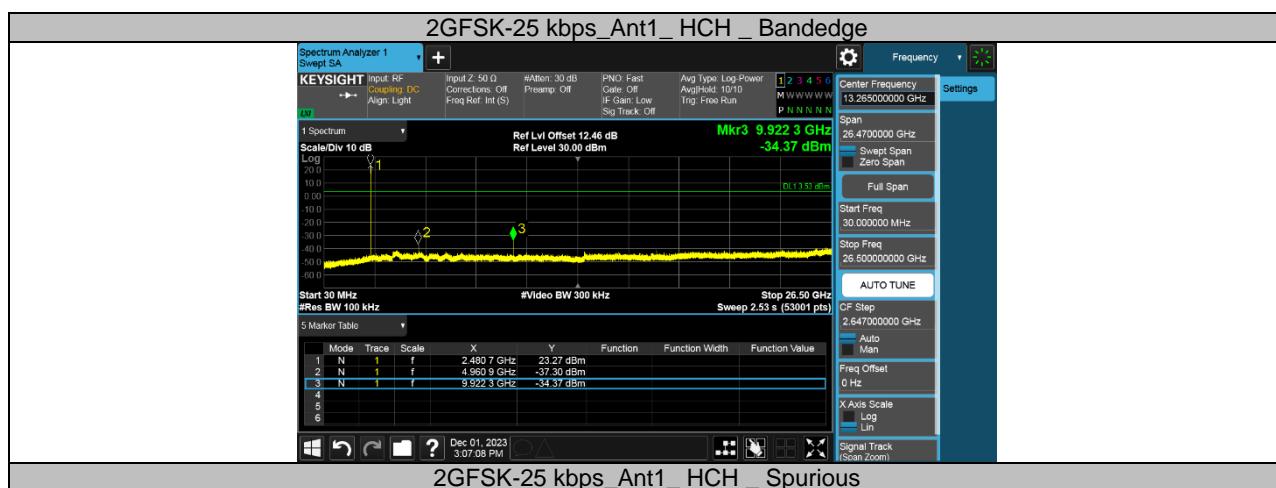


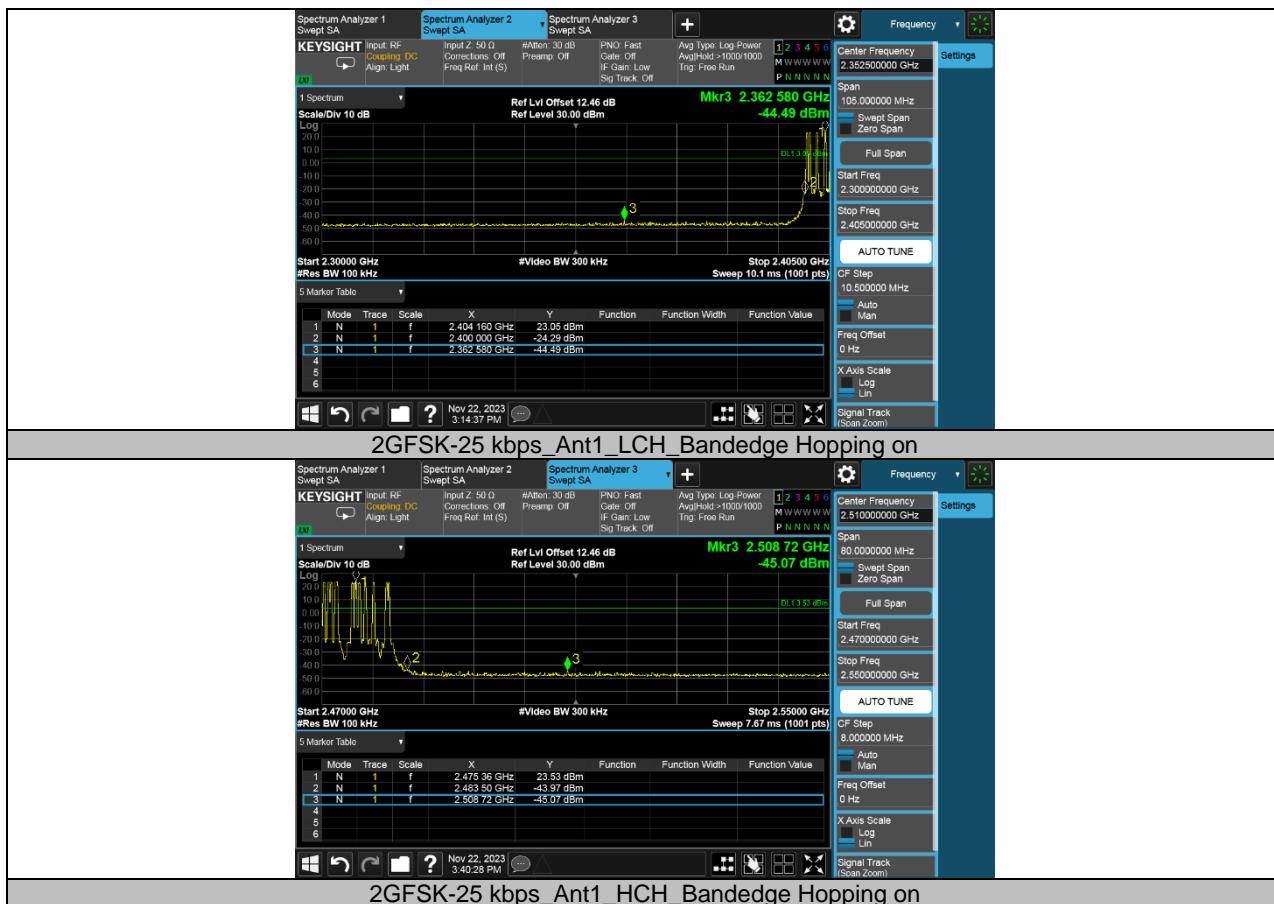
2GFSK-25 kbps_Ant1_MCH_Spurious



2GFSK-25 kbps_Ant1_ HCH _ Reference







11.7. Appendix G1: Duty Cycle

11.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
2GFSK-25 kbps	231	501	0.4611	46.11%	3.36	0.0043	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

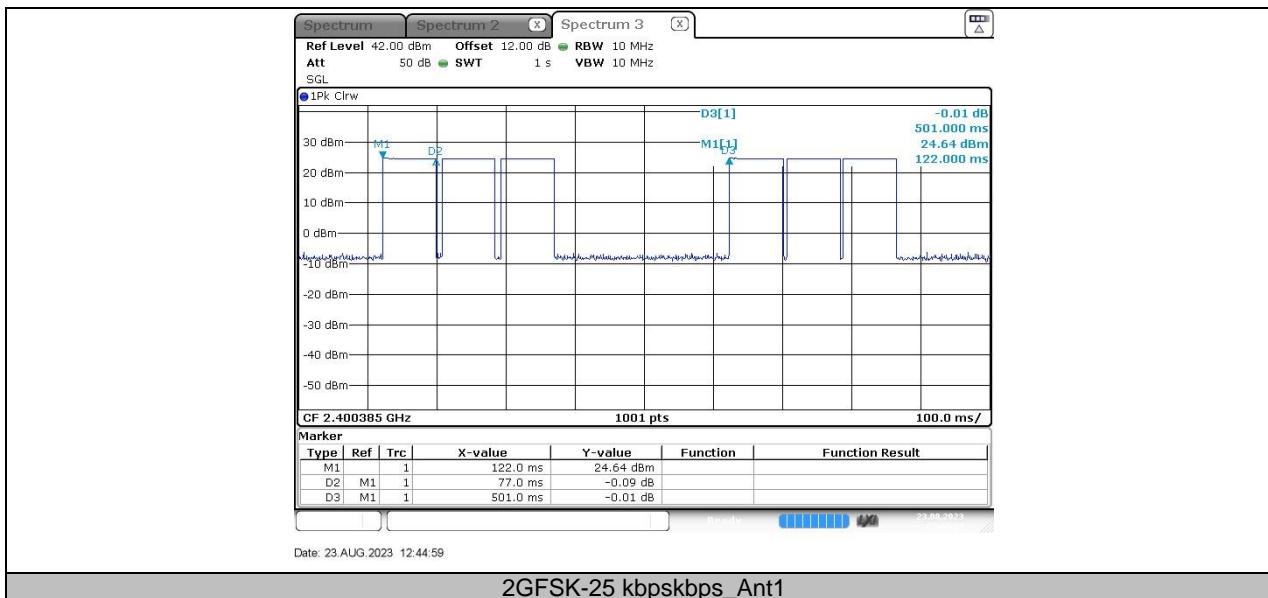
Where: x is Duty Cycle (Linear)

Where: T is On Time

On Time=D2*3=77*3=231 ms

If that calculated VBW is not available on the analyzer then the next higher value should be used.

11.7.2. Test Graphs



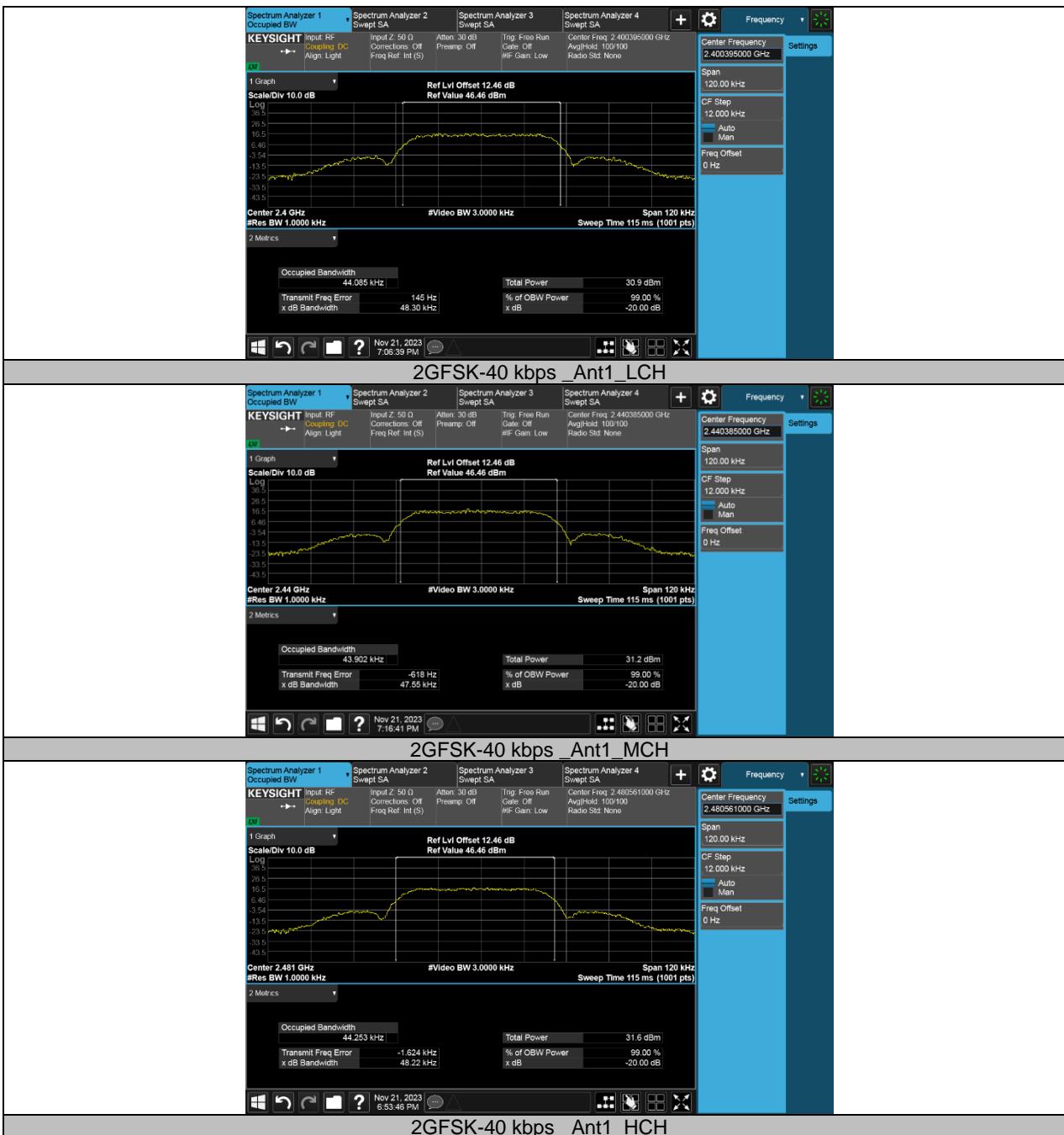
12. FCC.2400M.2GFSK.40kbps

12.1. Appendix A2: 20dB Emission Bandwidth and Occupied Channel Bandwidth

12.1.1. Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
2GFSK-40 kbps	Ant1	LCH	0.04830	0.044085	PASS
		MCH	0.04755	0.043902	PASS
		HCH	0.04822	0.044253	PASS

12.1.2. Test Graphs



12.2. Appendix B2: Maximum conducted output power

12.2.1. Test Result

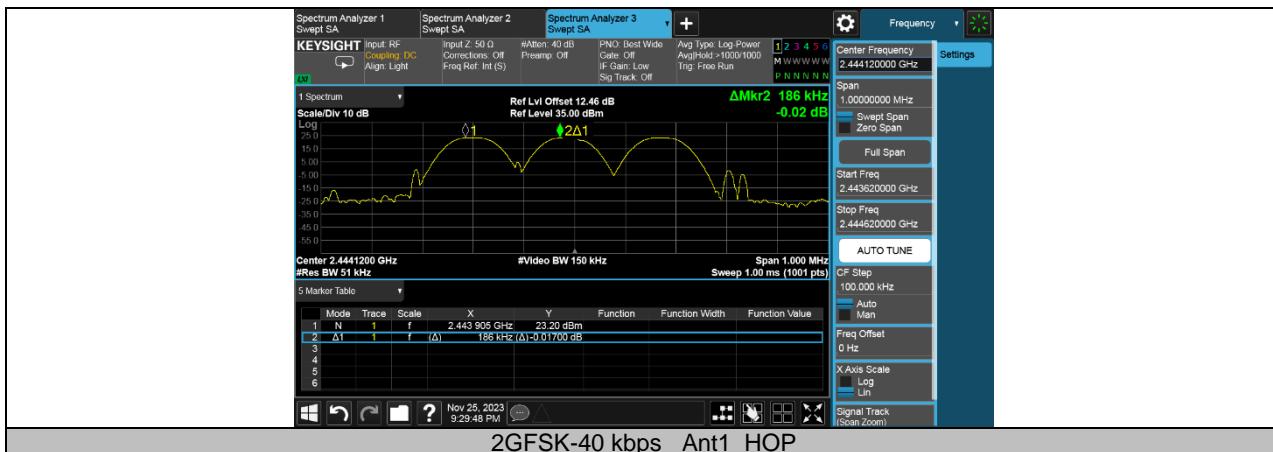
Test Mode	Antenna	Channel	PEAK Result[dBm]	AVG Result[dBm]	Limit[dBm]	Verdict
2GFSK-40 kbps	Ant1	LCH	24.37	24.21	≤30	PASS
		MCH	24.14	23.99	≤30	PASS
		HCH	24.68	24.55	≤30	PASS

12.3. Appendix C2: Carrier frequency separation

12.3.1. Test Result

Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
2GFSK-40 kbps	Ant1	Hop	0.186	≥0.04830	PASS

12.3.2. Test Graphs



12.4. Appendix D2: Time of occupancy

12.4.1. Test Result

Test Mode	Antenna	Channel	Time of single slot 1 [ms]	number of single slot 1	Burst Width 1 [ms/hop/ch]	The number of hop channel appear
2GFSK-40 kbps	Ant1	Hop	14.20	6	85.20	1

Test Mode	Antenna	Channel	Time of single slot 2 [ms]	number of single slot 2	Burst Width 2 [ms/hop/ch]	The number of hop channel appear
2GFSK-40 kbps	Ant1	Hop	8.40	1	8.40	1

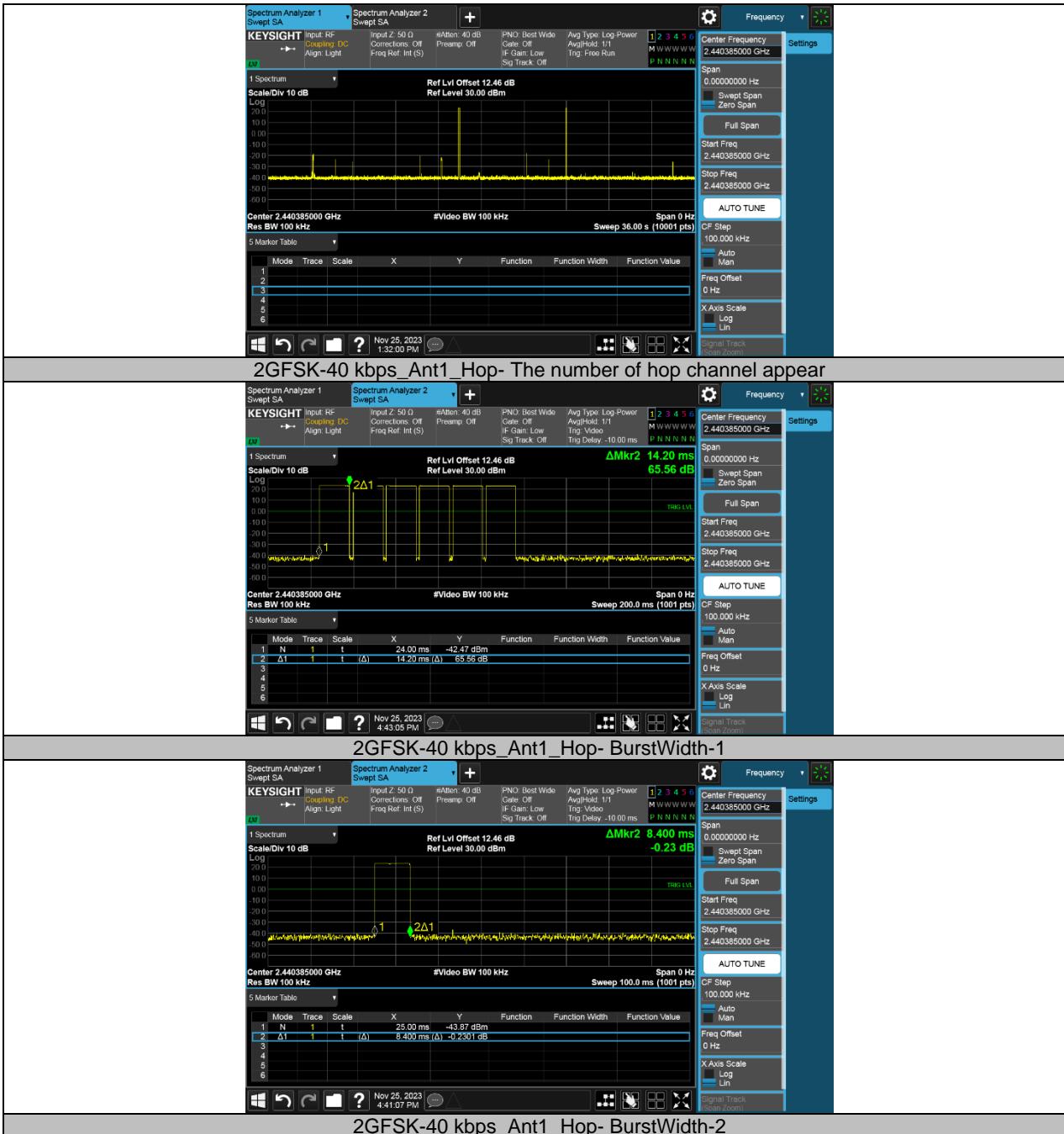
Test Mode	Antenna	Channel	Dwell Time1 [ms]	Dwell Time 2 [ms]	Dwell Time [ms]	Limit [ms]	Results
2GFSK-40 kbps	Ant1	Hop	85.20	8.40	93.60	400	PASS

Note:

2GFSK-40 kbps: The dwell time = Time of single slot * The number of hop channel appear within (0.4 * the number of hopping channels employed)

BurstWidth = Time of single slot * number of single slot

12.4.2. Test Graphs

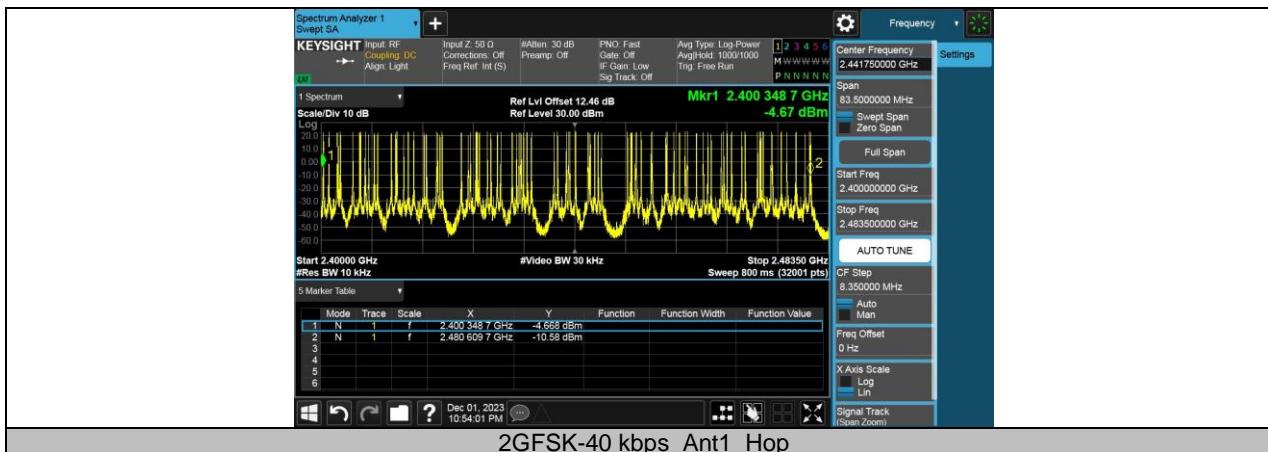


12.5. Appendix E2: Number of hopping channels

12.5.1. Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
2GFSK-40 kbps	Ant1	Hop	90	≥15	PASS

12.5.2. Test Graphs

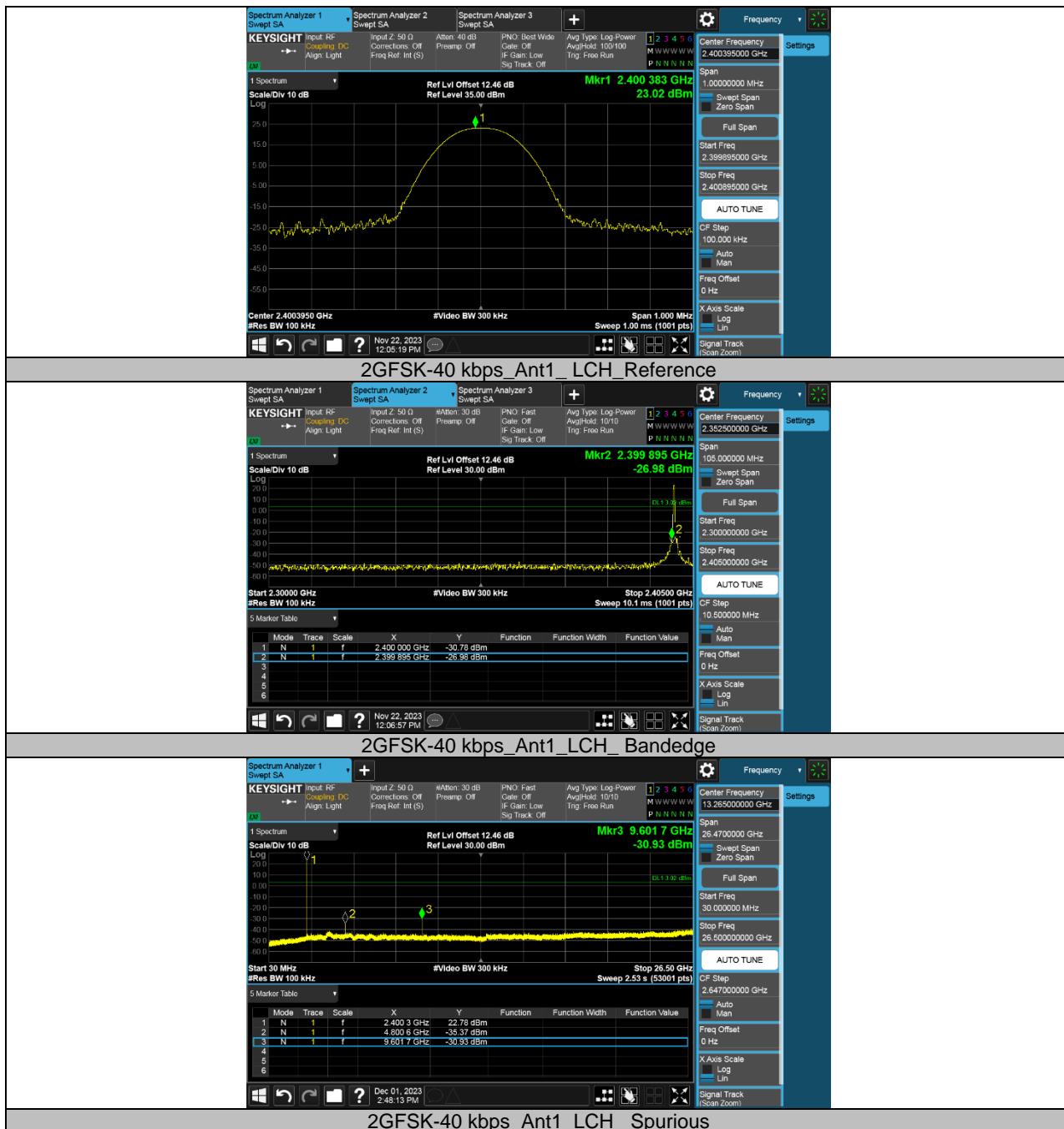


12.6. Appendix F2: Band edge measurements& Conducted Spurious Emission

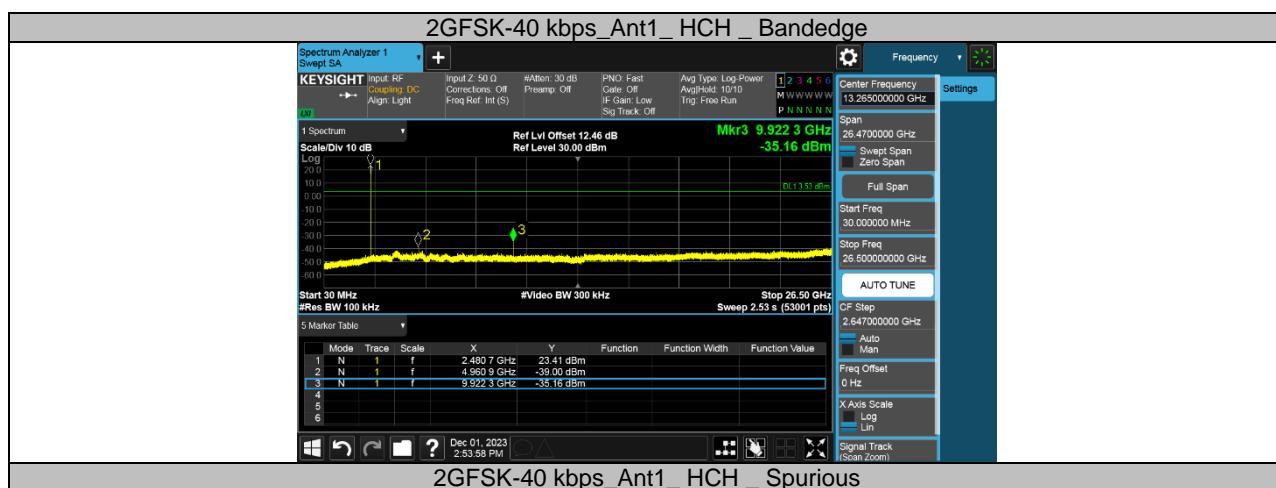
12.6.1. Test Result

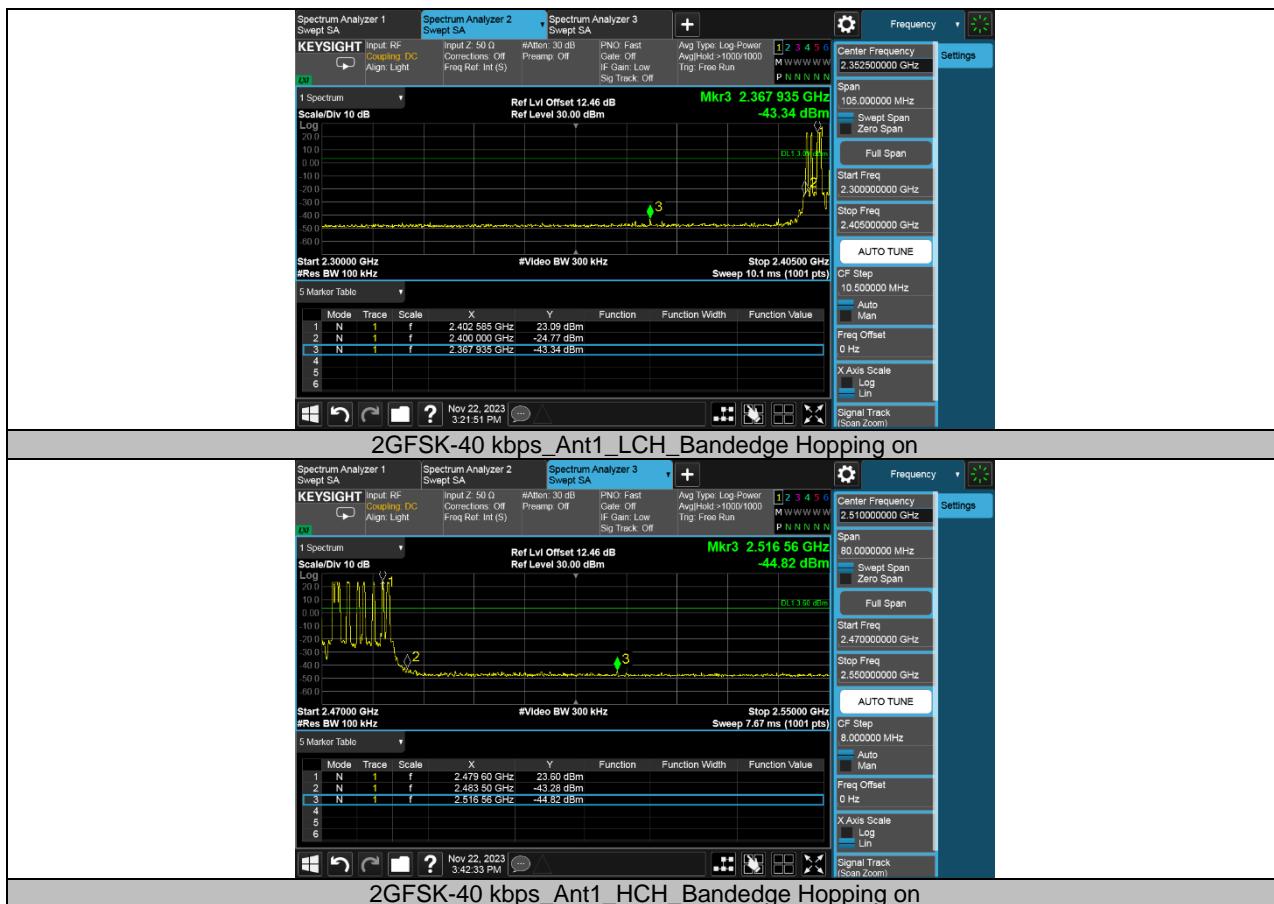
Test Mode	Antenna	ChName	Result [dBm]	Verdict
2GFSK-40 kbps	Ant1	LCH	See the below graphs	PASS
		MCH		PASS
		HCH		PASS
		Hop_ LCH		PASS
		Hop_ HCH		PASS

12.6.2. Test Graphs









12.7. Appendix G2: Duty Cycle

12.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
2GFSK-40 kbps	239.15	501.45	0.4769	47.69%	3.22	0.0042	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

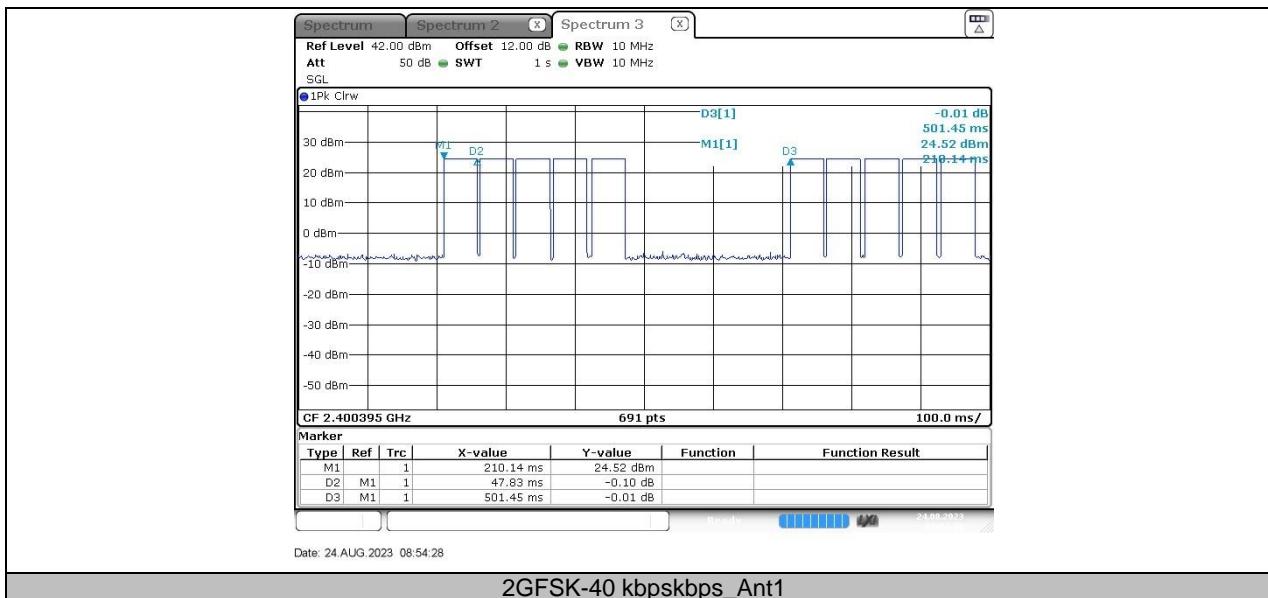
Where: x is Duty Cycle (Linear)

Where: T is On Time

On Time=D2*3=47.83*5=239.15 ms

If that calculated VBW is not available on the analyzer then the next higher value should be used.

12.7.2. Test Graphs



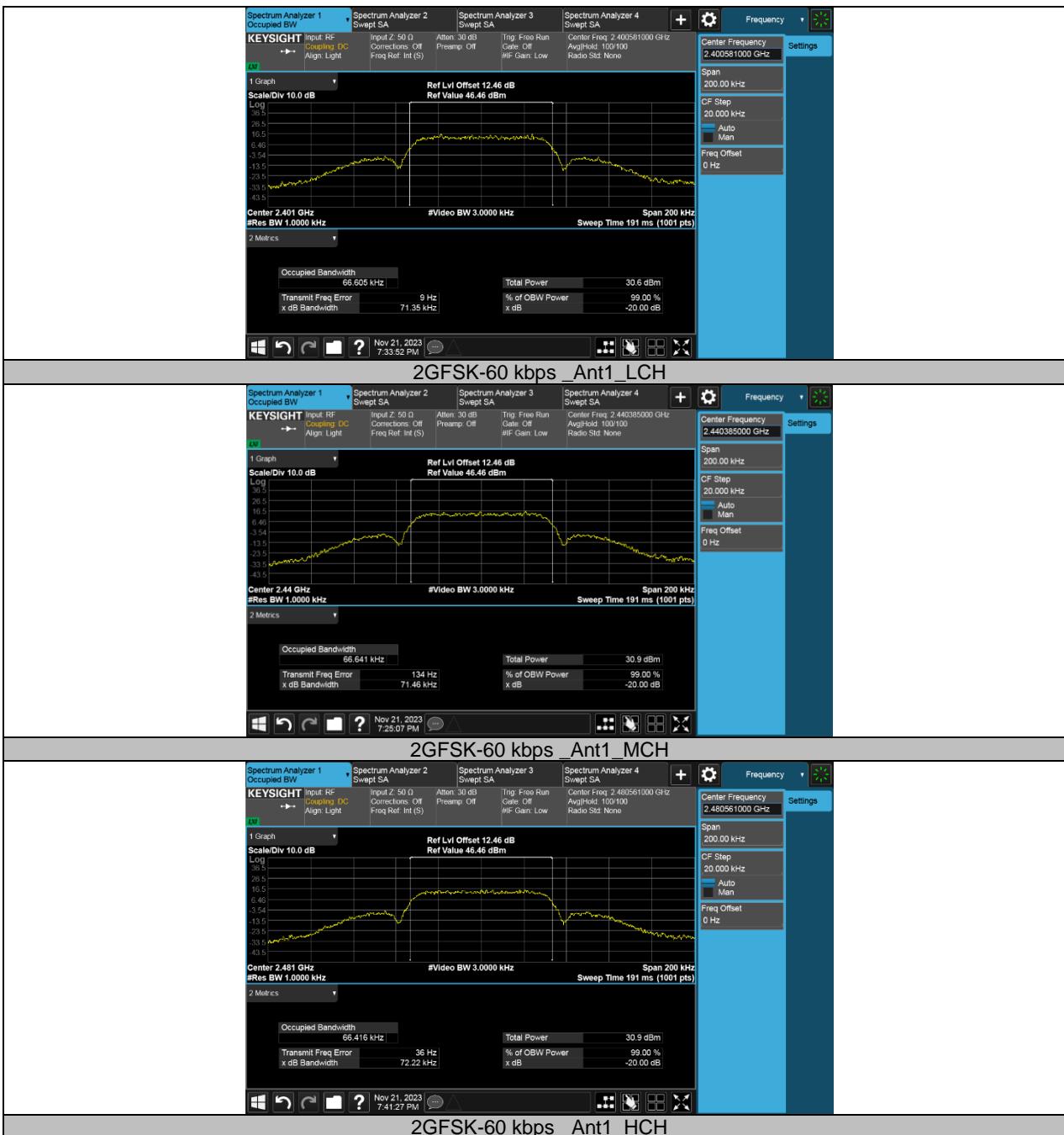
13. FCC.2400M.2GFSK.60kbps

13.1. Appendix A3: 20dB Emission Bandwidth and Occupied Channel Bandwidth

13.1.1. Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
2GFSK-60 kbps	Ant1	LCH	0.07135	0.066605	PASS
		MCH	0.07146	0.066641	PASS
		HCH	0.07222	0.066416	PASS

13.1.2. Test Graphs



13.2. Appendix B3: Maximum conducted output power

13.2.1. Test Result

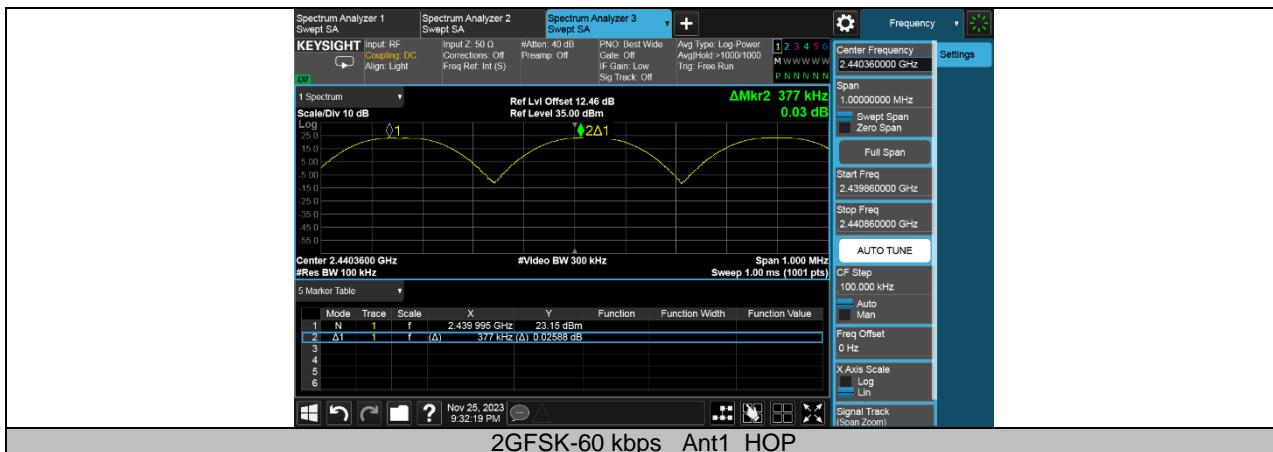
Test Mode	Antenna	Channel	PEAK Result[dBm]	AVG Result[dBm]	Limit[dBm]	Verdict
2GFSK-60 kbps	Ant1	LCH	24.49	24.24	≤30	PASS
		MCH	24.25	24.06	≤30	PASS
		HCH	24.78	24.64	≤30	PASS

13.3. Appendix C3: Carrier frequency separation

13.3.1. Test Result

Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
2GFSK-60 kbps	Ant1	Hop	0.377	≥0.07222	PASS

13.3.2. Test Graphs



13.4. Appendix D3: Time of occupancy

13.4.1. Test Result

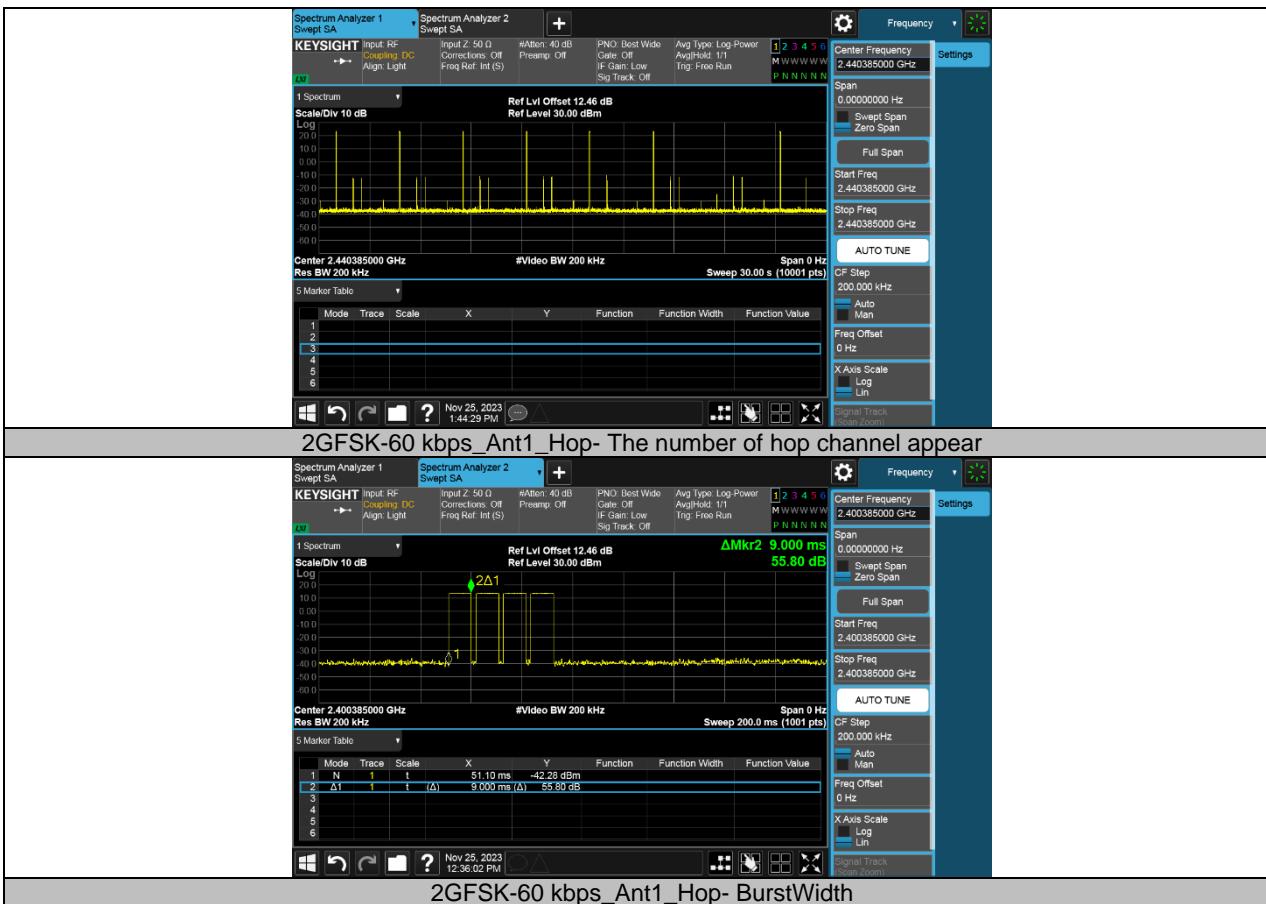
FHSS Mode									
Test Mode	Antenna	Channel	Time of single slot [ms]	number of single slot	BurstWidth [ms]	The number of hop channel appear	Result[ms]	Limit[ms]	Verdict
2GFSK-60 kbps	Ant1	Hop	9.00	4	36.00	7	252.00	<=400	PASS

Note:

2GFSK-60 kbps: The dwell time = Time of single slot * The number of hop channel appear within (0.4 * the number of hopping channels employed)

BurstWidth =Time of single slot*number of single slot

13.4.2. Test Graphs

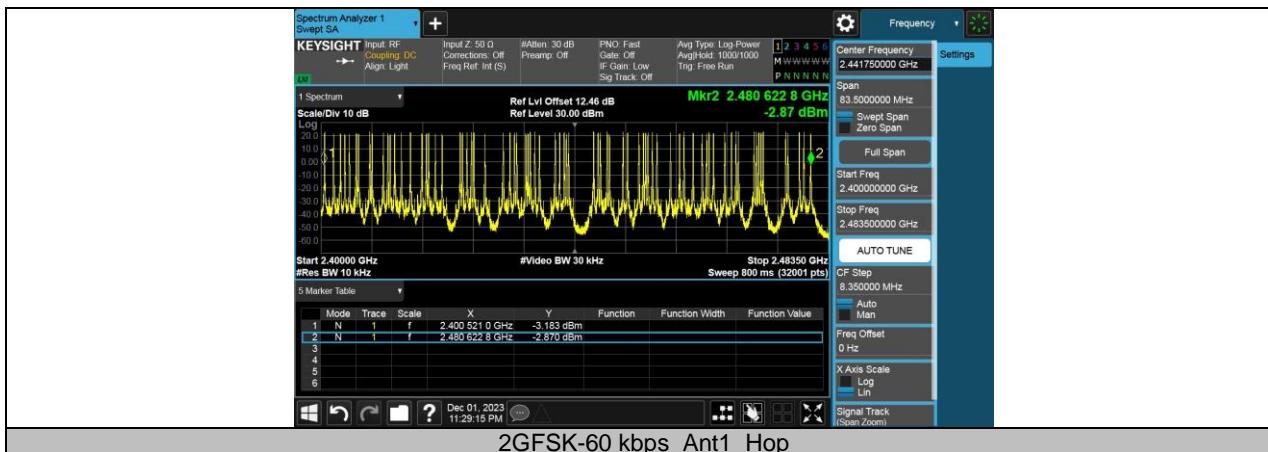


13.5. Appendix E3: Number of hopping channels

13.5.1. Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
2GFSK-60 kbps	Ant1	Hop	75	≥15	PASS

13.5.2. Test Graphs

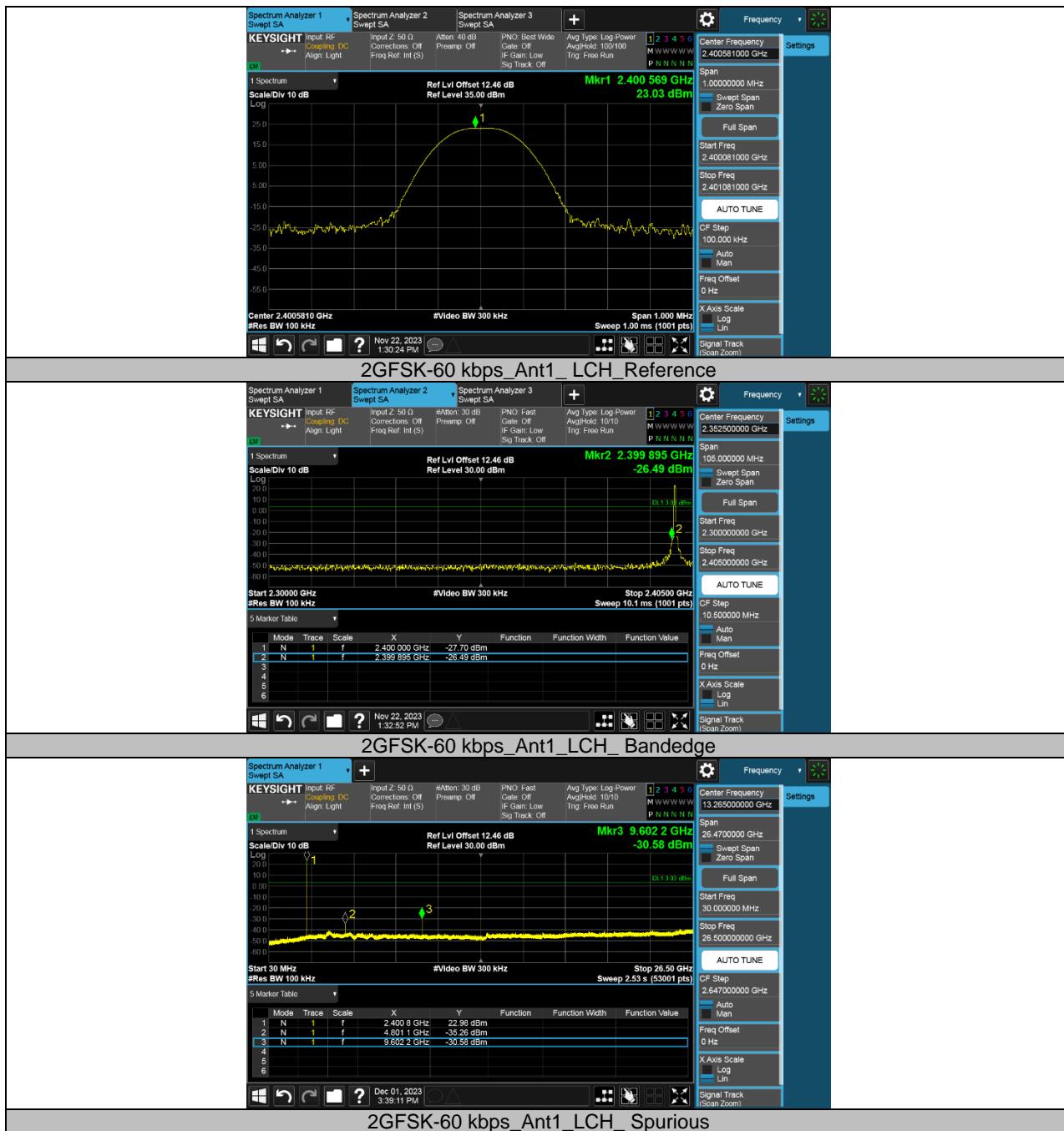


13.6. Appendix F3: Band edge measurements& Conducted Spurious Emission

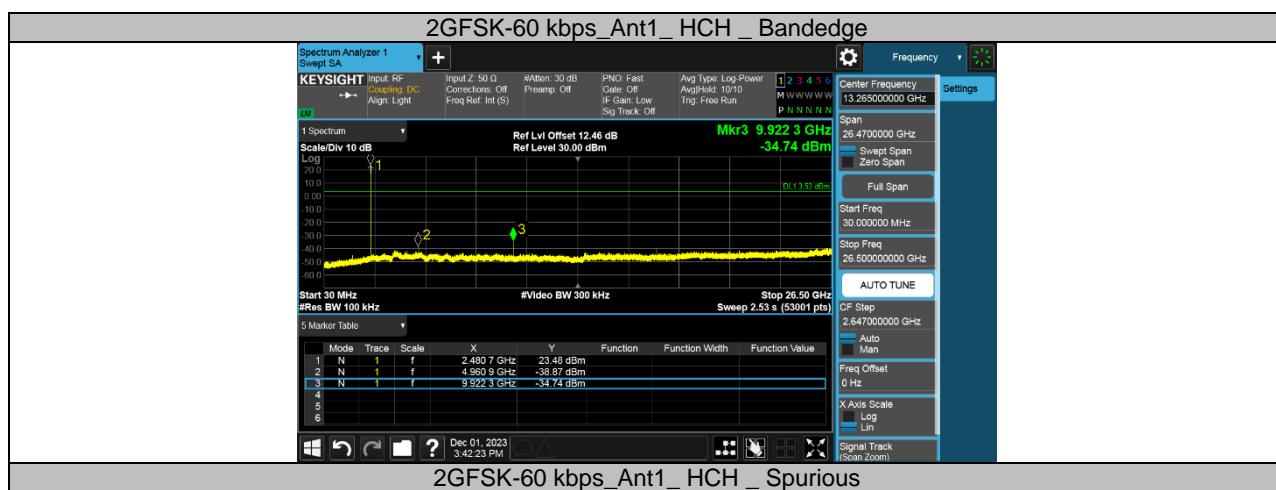
13.6.1. Test Result

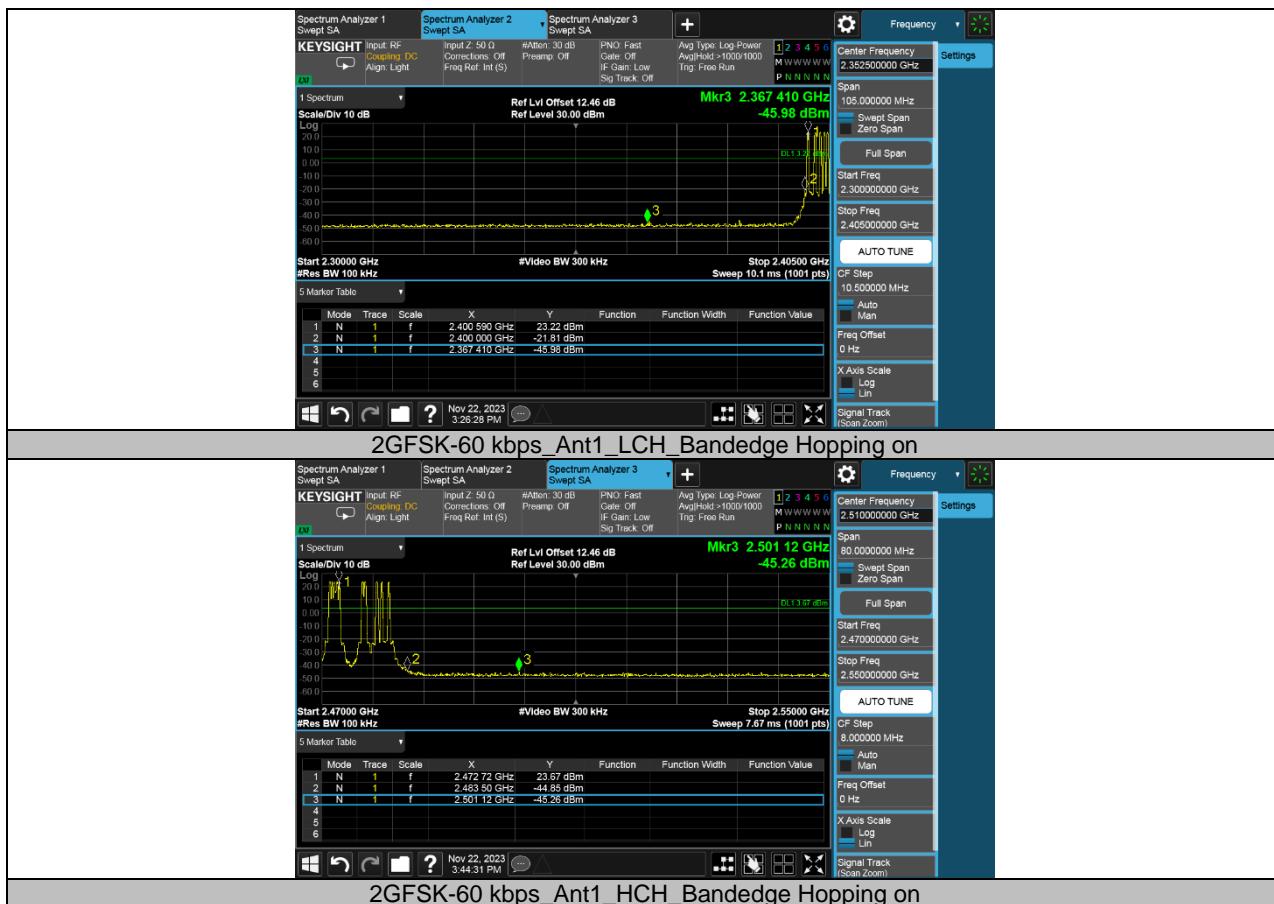
Test Mode	Antenna	ChName	Result [dBm]	Verdict
2GFSK-60 kbps	Ant1	LCH	See the below graphs	PASS
		MCH		PASS
		HCH		PASS
		Hop_LCH		PASS
		Hop_HCH		PASS

13.6.2. Test Graphs









13.7. Appendix G3: Duty Cycle

13.7.1. Test Result

Test Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
2GFSK-60 kbps	223.16	500.0	0.4463	44.63%	3.50	0.0045	0.01

Note:

Duty Cycle Correction Factor=10log (1/x).

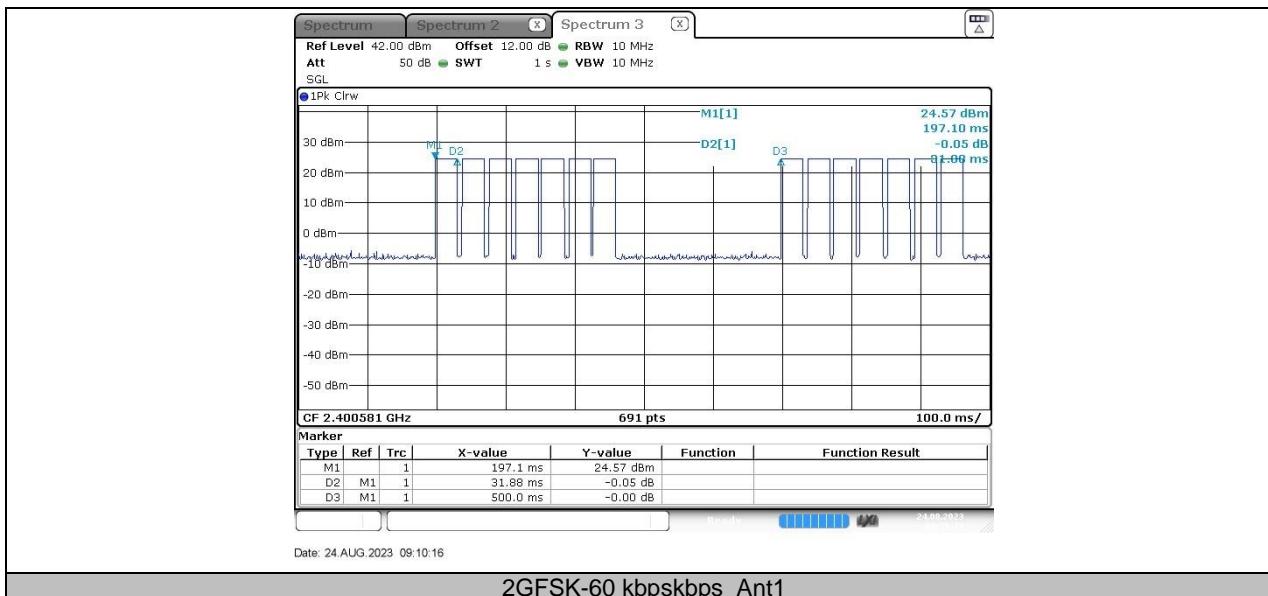
Where: x is Duty Cycle (Linear)

Where: T is On Time

On Time=D2*3=31.88*7=223.16 ms

If that calculated VBW is not available on the analyzer then the next higher value should be used.

13.7.2. Test Graphs



14. FCC.2400M.2GFSK.96kbps

14.1. Appendix A4: 20dB Emission Bandwidth and Occupied Channel Bandwidth

14.1.1. Test Result

Test Mode	Antenna	Channel	20db EBW[MHz]	OCB [MHz]	Verdict
2GFSK-96 kbps	Ant1	LCH	0.1161	0.10894	PASS
		MCH	0.1161	0.10856	PASS
		HCH	0.1164	0.10879	PASS

14.1.2. Test Graphs



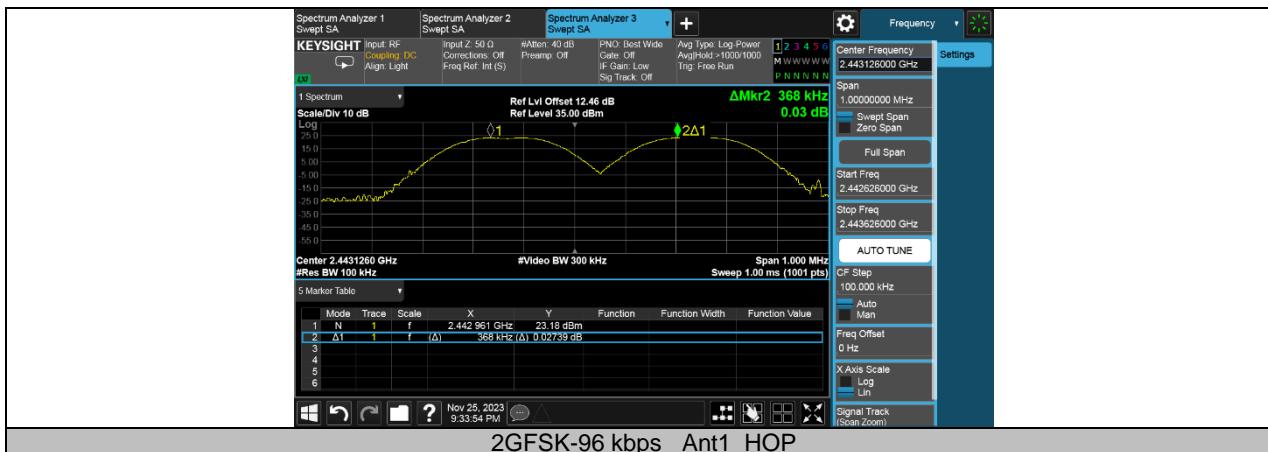
14.2. Appendix B4: Maximum conducted output power**14.2.1. Test Result**

Test Mode	Antenna	Channel	PEAK Result[dBm]	AVG Result[dBm]	Limit[dBm]	Verdict
2GFSK-96 kbps	Ant1	LCH	24.55	24.29	≤30	PASS
		MCH	24.35	24.12	≤30	PASS
		HCH	24.85	24.65	≤30	PASS

14.3. Appendix C4: Carrier frequency separation**14.3.1. Test Result**

Test Mode	Antenna	Channel	Result [MHz]	Limit [MHz]	Verdict
2GFSK-96 kbps	Ant1	Hop	0.368	≥0.1164	PASS

14.3.2. Test Graphs



14.4. Appendix D4: Time of occupancy

14.4.1. Test Result

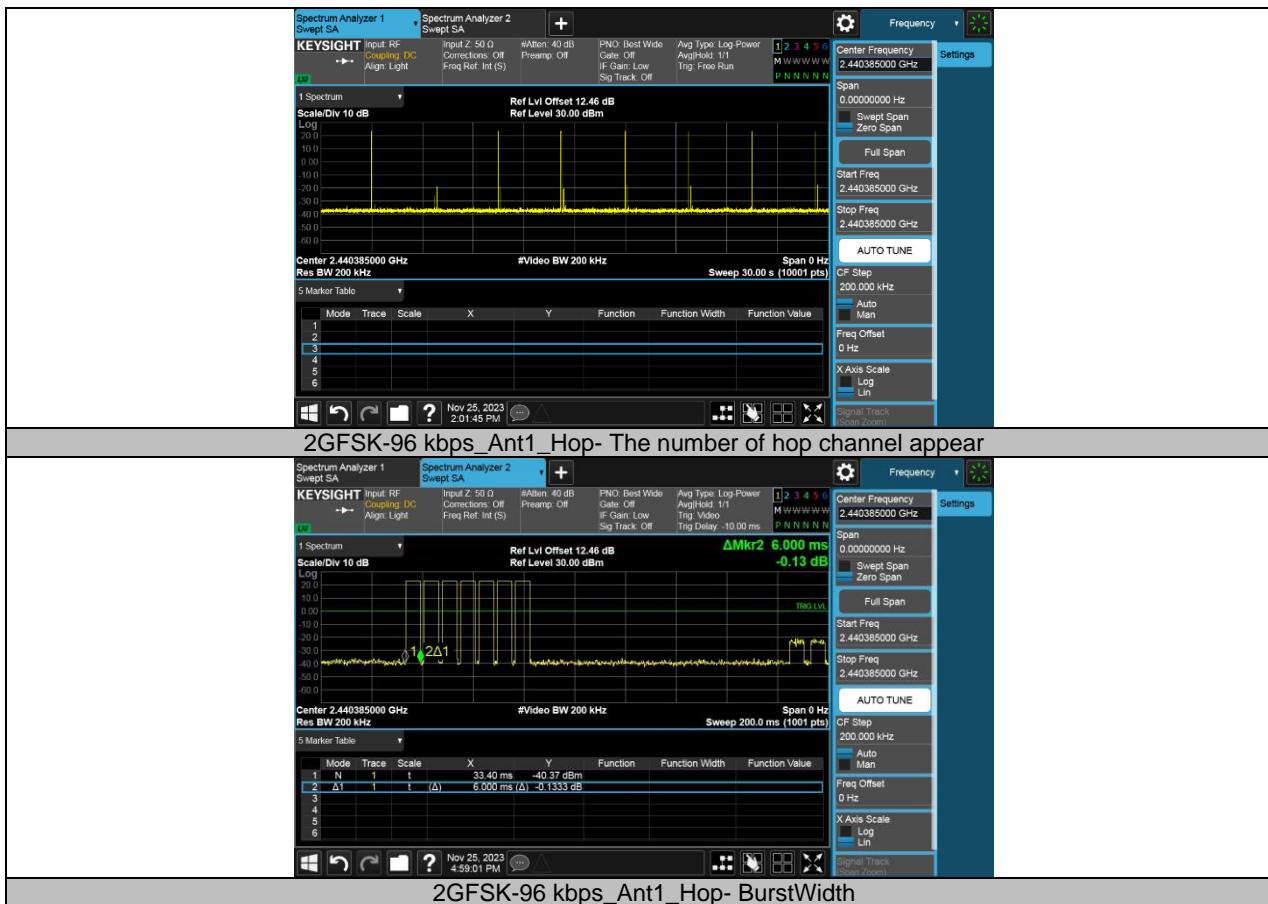
FHSS Mode									
Test Mode	Antenna	Channel	Time of single slot [ms]	number of single slot	BurstWidth [ms]	The number of hop channel appear	Result[ms]	Limit[ms]	Verdict
2GFSK-96 kbps	Ant1	Hop	6.00	7	42.00	7	294.00	<=400	PASS

Note:

2GFSK-96 kbps: The dwell time = Time of single slot * The number of hop channel appear within (0.4 * the number of hopping channels employed)

BurstWidth =Time of single slot*number of single slot

14.4.2. Test Graphs

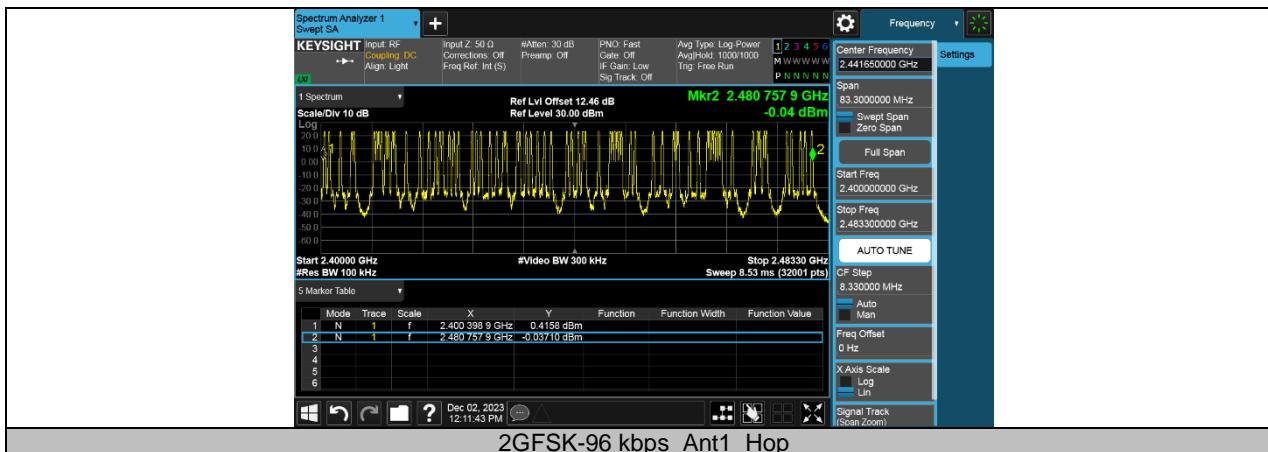


14.5. Appendix E4: Number of hopping channels

14.5.1. Test Result

Test Mode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
2GFSK-96 kbps	Ant1	Hop	75	≥15	PASS

14.5.2. Test Graphs



14.6. Appendix F4: Band edge measurements& Conducted Spurious Emission

14.6.1. Test Result

Test Mode	Antenna	ChName	Result [dBm]	Verdict
2GFSK-96 kbps	Ant1	LCH	See the below graphs	PASS
		MCH		PASS
		HCH		PASS
		Hop_ LCH		PASS
		Hop_ HCH		PASS

14.6.2. Test Graphs

