

















## 7. Frequency Stability

### 7.1. Test Results for Ant2

#### 7.1.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-1.20	-0.000463	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-5.30	-0.002044	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-1.70	-0.000656	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-1.30	-0.000501	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-1.90	-0.000733	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-3.80	-0.001465	Pass

#### 7.1.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	1.20	0.000463	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	1.00	0.000386	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-1.10	-0.000424	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-1.00	-0.000386	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	2.70	0.001041	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-0.20	-0.000077	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-2.70	-0.001041	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-7.00	-0.002700	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-3.70	-0.001427	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-0.80	-0.000309	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-3.50	-0.001350	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	2.60	0.001003	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-5.60	-0.002160	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-9.10	-0.003509	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-5.90	-0.002275	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-3.10	-0.001196	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-8.20	-0.003162	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-5.30	-0.002044	Pass



7.2. Test Results for Ant3

7.2.1. Frequency Error Vs Voltage

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	LV	NTV, FreqError, uA, Class 1, 150Hz, 20MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	NTV, FreqError, uA, Class 1, 150Hz, 20MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	NV	NTV, FreqError, uA, Class 1, 150Hz, 20MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	NTV, FreqError, uA, Class 1, 150Hz, 20MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	HV	NTV, FreqError, uA, Class 1, 150Hz, 20MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	NTV, FreqError, uA, Class 1, 150Hz, 20MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	LV	NTV, FreqError, uA, Class 1, 300Hz, 100MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	NTV, FreqError, uA, Class 1, 300Hz, 100MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	NV	NTV, FreqError, uA, Class 1, 300Hz, 100MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	NTV, FreqError, uA, Class 1, 300Hz, 100MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	HV	NTV, FreqError, uA, Class 1, 300Hz, 100MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	NTV, FreqError, uA, Class 1, 300Hz, 100MHz, MCH, CP-QPSK, Chan, Full, Ant3, Ref	Pass

7.2.2. Frequency Error Vs Temperature

SCS	Bandwidth	Channel	RB Config	Modulation	Temperature	Voltage	Deviation Result		Verdict
							(Hz)	(ppm)	
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-4.90	-0.001890	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	0.40	0.000154	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-3.30	-0.001273	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	0.60	0.000231	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	0.80	0.000309	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	1.80	0.000694	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-4.00	-0.001543	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-4.40	-0.001697	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-3.80	-0.001465	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	0.30	0.000116	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-1.70	-0.000656	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-1.70	-0.000656	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-4.40	-0.001697	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-7.40	-0.002854	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-4.30	-0.001658	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-7.80	-0.003008	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-4.30	-0.001658	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-7.50	-0.002892	Pass

The End