





### 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	-4.30	-0.001658	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-4.70	-0.001813	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	HV	-2.70	-0.001041	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	LV	-7.70	-0.002970	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	NV	-6.20	-0.002391	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	HV	0.80	0.000309	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	-3.40	-0.001311	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-1.80	-0.000694	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-7.20	-0.002777	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-4.00	-0.001543	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-5.20	-0.002005	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	1.00	0.000386	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-4.50	-0.001735	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	0.10	0.000039	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-5.30	-0.002044	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-0.40	-0.000154	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-8.40	-0.003240	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-7.40	-0.002854	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-5.20	-0.002005	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-8.50	-0.003278	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-6.30	-0.002430	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-5.70	-0.002198	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-3.80	-0.001465	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-2.10	-0.000810	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_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	NV	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	NT	HV	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	LV	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	NV	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	NT	HV	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 Ref	NTV_Frequency_volt_Class 3, 100Hz, 100MHz, MCH, CP-QPSK, Outer_Full, Ant2 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	-5.60	-0.002160	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-0.70	-0.000270	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-1.80	-0.000694	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-3.50	-0.001350	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-4.30	-0.001658	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-3.80	-0.001465	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-4.80	-0.001851	Pass
15KHz	50MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-3.00	-0.001157	Pass

15KHz	50MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-0.50	-0.000193	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-30°C	NV	-3.40	-0.001311	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-20°C	NV	-3.80	-0.001465	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	-10°C	NV	-9.40	-0.003625	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	0°C	NV	-7.60	-0.002931	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	10°C	NV	-3.10	-0.001196	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	20°C	NV	-6.50	-0.002507	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	30°C	NV	-8.90	-0.003432	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	40°C	NV	-3.20	-0.001234	Pass
30KHz	100MHz	MCH	Outer_Full	CP-QPSK	50°C	NV	-3.50	-0.001350	Pass

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The End