



TestMode	Antenna	Channel	Temperature					Limit (ppm)	Verdict
			Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)			
20M	Ant1	5180	NV	0	1000	0.19305	20	PASS	
			NV	10	2000	0.3861	20	PASS	
			NV	20	3000	0.579151	20	PASS	
			NV	30	3000	0.579151	20	PASS	
			NV	40	4000	0.772201	20	PASS	
			NV	45	4000	0.772201	20	PASS	
	Ant2	5180	NV	0	5000	0.965251	20	PASS	
			NV	10	6000	1.158301	20	PASS	
			NV	20	6000	1.158301	20	PASS	
			NV	30	6000	1.158301	20	PASS	
			NV	40	6000	1.158301	20	PASS	
			NV	45	6000	1.158301	20	PASS	
	Ant1	5200	NV	0	7000	1.346154	20	PASS	
			NV	10	7000	1.346154	20	PASS	
			NV	20	8000	1.538462	20	PASS	
			NV	30	8000	1.538462	20	PASS	
			NV	40	9000	1.730769	20	PASS	
			NV	45	9000	1.730769	20	PASS	
	Ant2	5200	NV	0	10000	1.923077	20	PASS	
			NV	10	10000	1.923077	20	PASS	
			NV	20	9000	1.730769	20	PASS	
			NV	30	10000	1.923077	20	PASS	
			NV	40	10000	1.923077	20	PASS	
			NV	45	10000	1.923077	20	PASS	
	Ant1	5240	NV	0	11000	2.099237	20	PASS	
			NV	10	13000	2.480916	20	PASS	
			NV	20	13000	2.480916	20	PASS	
			NV	30	14000	2.671756	20	PASS	
			NV	40	13000	2.480916	20	PASS	
			NV	45	13000	2.480916	20	PASS	
	Ant2	5240	NV	0	12000	2.290076	20	PASS	
			NV	10	11000	2.099237	20	PASS	
			NV	20	11000	2.099237	20	PASS	
			NV	30	10000	1.908397	20	PASS	
			NV	40	11000	2.099237	20	PASS	
			NV	45	10000	1.908397	20	PASS	
	Ant1	5260	NV	0	11000	2.091255	20	PASS	
			NV	10	13000	2.471483	20	PASS	
			NV	20	12000	2.281369	20	PASS	
			NV	30	13000	2.471483	20	PASS	
			NV	40	13000	2.471483	20	PASS	
			NV	45	13000	2.471483	20	PASS	
	Ant2	5260	NV	0	13000	2.471483	20	PASS	
			NV	10	12000	2.281369	20	PASS	
			NV	20	13000	2.471483	20	PASS	
			NV	30	13000	2.471483	20	PASS	
			NV	40	13000	2.471483	20	PASS	
			NV	45	13000	2.471483	20	PASS	
	Ant1	5280	NV	0	12000	2.272727	20	PASS	
			NV	10	14000	2.651515	20	PASS	
NV			20	14000	2.651515	20	PASS		
NV			30	15000	2.840909	20	PASS		
NV			40	14000	2.651515	20	PASS		
NV			45	14000	2.651515	20	PASS		
Ant2	5280	NV	0	15000	2.840909	20	PASS		
		NV	10	16000	3.030303	20	PASS		
		NV	20	16000	3.030303	20	PASS		
		NV	30	17000	3.219697	20	PASS		
		NV	40	17000	3.219697	20	PASS		
		NV	45	17000	3.219697	20	PASS		
Ant1	5320	NV	0	14000	2.631579	20	PASS		

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			NV	10	13000	2.443609	20	PASS
			NV	20	13000	2.443609	20	PASS
			NV	30	14000	2.631579	20	PASS
			NV	40	14000	2.631579	20	PASS
			NV	45	14000	2.631579	20	PASS
	Ant2	5320	NV	0	14000	2.631579	20	PASS
			NV	10	13000	2.443609	20	PASS
			NV	20	13000	2.443609	20	PASS
			NV	30	13000	2.443609	20	PASS
			NV	40	14000	2.631579	20	PASS
			NV	45	14000	2.631579	20	PASS
	Ant1	5500	NV	0	16000	2.909091	20	PASS
			NV	10	18000	3.272727	20	PASS
			NV	20	18000	3.272727	20	PASS
			NV	30	18000	3.272727	20	PASS
			NV	40	18000	3.272727	20	PASS
			NV	45	18000	3.272727	20	PASS
	Ant2	5500	NV	0	18000	3.272727	20	PASS
			NV	10	17000	3.090909	20	PASS
			NV	20	18000	3.272727	20	PASS
			NV	30	18000	3.272727	20	PASS
			NV	40	17000	3.090909	20	PASS
			NV	45	16000	2.909091	20	PASS
	Ant1	5580	NV	0	16000	2.867384	20	PASS
			NV	10	18000	3.225806	20	PASS
			NV	20	18000	3.225806	20	PASS
			NV	30	18000	3.225806	20	PASS
			NV	40	18000	3.225806	20	PASS
			NV	45	18000	3.225806	20	PASS
	Ant2	5580	NV	0	18000	3.225806	20	PASS
			NV	10	17000	3.046595	20	PASS
			NV	20	17000	3.046595	20	PASS
			NV	30	17000	3.046595	20	PASS
			NV	40	18000	3.225806	20	PASS
			NV	45	18000	3.225806	20	PASS
	Ant1	5700	NV	0	14000	2.45614	20	PASS
			NV	10	15000	2.631579	20	PASS
			NV	20	16000	2.807018	20	PASS
			NV	30	13000	2.280702	20	PASS
			NV	40	14000	2.45614	20	PASS
			NV	45	14000	2.45614	20	PASS
	Ant2	5700	NV	0	15000	2.631579	20	PASS
			NV	10	15000	2.631579	20	PASS
			NV	20	15000	2.631579	20	PASS
			NV	30	16000	2.807018	20	PASS
			NV	40	15000	2.631579	20	PASS
			NV	45	16000	2.807018	20	PASS
	Ant1	5745	NV	0	15000	2.610966	20	PASS
			NV	10	17000	2.959095	20	PASS
			NV	20	17000	2.959095	20	PASS
			NV	30	17000	2.959095	20	PASS
			NV	40	17000	2.959095	20	PASS
			NV	45	17000	2.959095	20	PASS
	Ant2	5745	NV	0	17000	2.959095	20	PASS
			NV	10	16000	2.78503	20	PASS
			NV	20	17000	2.959095	20	PASS
			NV	30	16000	2.78503	20	PASS
			NV	40	17000	2.959095	20	PASS
			NV	45	16000	2.78503	20	PASS
	Ant1	5785	NV	0	13000	2.247191	20	PASS
			NV	10	14000	2.420052	20	PASS
			NV	20	14000	2.420052	20	PASS
			NV	30	14000	2.420052	20	PASS
			NV	40	14000	2.420052	20	PASS
			NV	45	14000	2.420052	20	PASS
	Ant2	5785	NV	0	14000	2.420052	20	PASS

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			NV	10	14000	2.420052	20	PASS
			NV	20	14000	2.420052	20	PASS
			NV	30	14000	2.420052	20	PASS
			NV	40	15000	2.592913	20	PASS
			NV	45	14000	2.420052	20	PASS
	Ant1	5825	NV	0	11000	1.888412	20	PASS
			NV	10	12000	2.060086	20	PASS
			NV	20	12000	2.060086	20	PASS
			NV	30	12000	2.060086	20	PASS
			NV	40	12000	2.060086	20	PASS
	Ant2	5825	NV	45	11000	1.888412	20	PASS
			NV	0	11000	1.888412	20	PASS
			NV	10	10000	1.716738	20	PASS
			NV	20	10000	1.716738	20	PASS
			NV	30	10000	1.716738	20	PASS
			NV	40	10000	1.716738	20	PASS
			NV	45	11000	1.888412	20	PASS
			NV	0	7000	1.348748	20	PASS
			NV	10	8000	1.541426	20	PASS
			NV	20	8000	1.541426	20	PASS
40M	Ant1	5190	NV	30	9000	1.734104	20	PASS
			NV	40	9000	1.734104	20	PASS
			NV	45	9000	1.734104	20	PASS
			NV	0	11000	2.119461	20	PASS
			NV	10	10000	1.926782	20	PASS
	Ant2	5190	NV	20	10000	1.926782	20	PASS
			NV	30	10000	1.926782	20	PASS
			NV	40	11000	2.119461	20	PASS
			NV	45	10000	1.926782	20	PASS
			NV	0	9000	1.720841	20	PASS
	Ant1	5230	NV	10	11000	2.10325	20	PASS
			NV	20	11000	2.10325	20	PASS
			NV	30	11000	2.10325	20	PASS
			NV	40	11000	2.10325	20	PASS
			NV	45	11000	2.10325	20	PASS
Ant2	5230	NV	0	11000	2.10325	20	PASS	
		NV	10	11000	2.10325	20	PASS	
		NV	20	11000	2.10325	20	PASS	
		NV	30	11000	2.10325	20	PASS	
		NV	40	11000	2.10325	20	PASS	
			NV	45	12000	2.294455	20	PASS
			NV	0	10000	1.897533	20	PASS
			NV	10	12000	2.27704	20	PASS
			NV	20	11000	2.087287	20	PASS
			NV	30	11000	2.087287	20	PASS
Ant1	5270	NV	40	12000	2.27704	20	PASS	
		NV	45	11000	2.087287	20	PASS	
		NV	0	11000	2.087287	20	PASS	
		NV	10	11000	2.087287	20	PASS	
		NV	20	11000	2.087287	20	PASS	
Ant2	5270	NV	30	11000	2.087287	20	PASS	
		NV	40	11000	2.087287	20	PASS	
		NV	45	11000	2.087287	20	PASS	
		NV	0	10000	1.883239	20	PASS	
		NV	10	10000	1.883239	20	PASS	
Ant1	5310	NV	20	10000	1.883239	20	PASS	
		NV	30	10000	1.883239	20	PASS	
		NV	40	10000	1.883239	20	PASS	
		NV	45	10000	1.883239	20	PASS	
		NV	0	10000	1.883239	20	PASS	
Ant2	5310	NV	10	10000	1.883239	20	PASS	
		NV	20	9000	1.694915	20	PASS	
		NV	30	9000	1.694915	20	PASS	
		NV	40	10000	1.883239	20	PASS	
		NV	45	10000	1.883239	20	PASS	
Ant1	5510	NV	0	12000	2.177858	20	PASS	

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			NV	10	14000	2.540835	20	PASS
			NV	20	15000	2.722323	20	PASS
			NV	30	15000	2.722323	20	PASS
			NV	40	15000	2.722323	20	PASS
			NV	45	15000	2.722323	20	PASS
	Ant2	5510	NV	0	15000	2.722323	20	PASS
			NV	10	15000	2.722323	20	PASS
			NV	20	15000	2.722323	20	PASS
			NV	30	15000	2.722323	20	PASS
			NV	40	15000	2.722323	20	PASS
			NV	45	15000	2.722323	20	PASS
			NV	0	12000	2.162162	20	PASS
			NV	10	12000	2.162162	20	PASS
			NV	20	12000	2.162162	20	PASS
			NV	30	13000	2.342342	20	PASS
	Ant1	5550	NV	40	13000	2.342342	20	PASS
			NV	45	12000	2.162162	20	PASS
			NV	0	13000	2.342342	20	PASS
			NV	10	12000	2.162162	20	PASS
			NV	20	12000	2.162162	20	PASS
	Ant2	5550	NV	30	13000	2.342342	20	PASS
			NV	40	12000	2.162162	20	PASS
			NV	45	12000	2.162162	20	PASS
			NV	0	10000	1.763668	20	PASS
			NV	10	12000	2.116402	20	PASS
	Ant1	5670	NV	20	12000	2.116402	20	PASS
			NV	30	12000	2.116402	20	PASS
			NV	40	12000	2.116402	20	PASS
			NV	45	13000	2.292769	20	PASS
			NV	0	13000	2.292769	20	PASS
	Ant2	5670	NV	10	14000	2.469136	20	PASS
			NV	20	13000	2.292769	20	PASS
			NV	30	13000	2.292769	20	PASS
			NV	40	14000	2.469136	20	PASS
			NV	45	13000	2.292769	20	PASS
	Ant1	5755	NV	0	15000	2.606429	20	PASS
			NV	10	17000	2.953953	20	PASS
			NV	20	17000	2.953953	20	PASS
			NV	30	17000	2.953953	20	PASS
			NV	40	18000	3.127715	20	PASS
	Ant2	5755	NV	45	19000	3.301477	20	PASS
			NV	0	17000	2.953953	20	PASS
			NV	10	17000	2.953953	20	PASS
			NV	20	17000	2.953953	20	PASS
			NV	30	17000	2.953953	20	PASS
Ant1	5795	NV	40	17000	2.953953	20	PASS	
		NV	45	18000	3.127715	20	PASS	
		NV	0	11000	1.898188	20	PASS	
		NV	10	12000	2.070751	20	PASS	
		NV	20	12000	2.070751	20	PASS	
Ant2	5795	NV	30	11000	1.898188	20	PASS	
		NV	40	11000	1.898188	20	PASS	
		NV	45	11000	1.898188	20	PASS	
		NV	0	12000	2.070751	20	PASS	
		NV	10	11000	1.898188	20	PASS	
80M	Ant1	NV	20	12000	2.070751	20	PASS	
		NV	30	12000	2.070751	20	PASS	
		NV	40	12000	2.070751	20	PASS	
		NV	45	12000	2.070751	20	PASS	
		NV	0	9000	1.727447	20	PASS	
Ant2	5210	NV	10	9000	1.727447	20	PASS	
		NV	20	9000	1.727447	20	PASS	
		NV	30	9000	1.727447	20	PASS	
		NV	40	10000	1.919386	20	PASS	
		NV	45	10000	1.919386	20	PASS	
			NV	0	10000	1.919386	20	PASS

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			NV	10	9000	1.727447	20	PASS
			NV	20	9000	1.727447	20	PASS
			NV	30	9000	1.727447	20	PASS
			NV	40	10000	1.919386	20	PASS
			NV	45	10000	1.919386	20	PASS
	Ant1	5290	NV	0	9000	1.701323	20	PASS
			NV	10	11000	2.079395	20	PASS
			NV	20	11000	2.079395	20	PASS
			NV	30	11000	2.079395	20	PASS
			NV	40	12000	2.268431	20	PASS
			NV	45	11000	2.079395	20	PASS
	Ant2	5290	NV	0	10000	1.890359	20	PASS
			NV	10	11000	2.079395	20	PASS
			NV	20	11000	2.079395	20	PASS
			NV	30	12000	2.268431	20	PASS
			NV	40	12000	2.268431	20	PASS
			NV	45	11000	2.079395	20	PASS
	Ant1	5530	NV	0	14000	2.531646	20	PASS
			NV	10	14000	2.531646	20	PASS
			NV	20	12000	2.169982	20	PASS
			NV	30	12000	2.169982	20	PASS
			NV	40	13000	2.350814	20	PASS
			NV	45	14000	2.531646	20	PASS
	Ant2	5530	NV	0	16000	2.893309	20	PASS
			NV	10	16000	2.893309	20	PASS
			NV	20	17000	3.074141	20	PASS
			NV	30	16000	2.893309	20	PASS
			NV	40	16000	2.893309	20	PASS
			NV	45	16000	2.893309	20	PASS
	Ant1	5610	NV	0	12000	2.139037	20	PASS
			NV	10	11000	1.960784	20	PASS
			NV	20	12000	2.139037	20	PASS
			NV	30	12000	2.139037	20	PASS
			NV	40	11000	1.960784	20	PASS
			NV	45	12000	2.139037	20	PASS
	Ant2	5610	NV	0	13000	2.317291	20	PASS
			NV	10	13000	2.317291	20	PASS
			NV	20	13000	2.317291	20	PASS
			NV	30	13000	2.317291	20	PASS
			NV	40	13000	2.317291	20	PASS
			NV	45	13000	2.317291	20	PASS
	Ant1	5775	NV	0	-7000	-1.212121	20	PASS
			NV	10	-10000	-1.731602	20	PASS
			NV	20	-11000	-1.904762	20	PASS
			NV	30	-11000	-1.904762	20	PASS
			NV	40	-11000	-1.904762	20	PASS
			NV	45	-11000	-1.904762	20	PASS
	Ant2	5775	NV	0	-12000	-2.077922	20	PASS
			NV	10	-13000	-2.251082	20	PASS
			NV	20	-13000	-2.251082	20	PASS
			NV	30	-13000	-2.251082	20	PASS
			NV	40	-13000	-2.251082	20	PASS
			NV	45	-13000	-2.251082	20	PASS



### 3.8. Antenna Requirement

#### Requirement

##### **FCC CFR Title 47 Part 15 Subpart C Section 15.203**

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.