APPENDIX REPORT

Project No.	SHT2310045701EW	Radio Specification	5.8G SDR
Test sample No.	YPHT23040066001	Model No.	CVX-EC2-BU
Start test date	2023-08-02	Finish date	2024-05-28
Temperature	23.8℃	Humidity	48%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zhao

Appendix clause	Test item	Result
A	Maximum Conducted Output Power	PASS
B	Maximum Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Frequency stability	PASS

Appendix A：Maximum Conducted Output Power

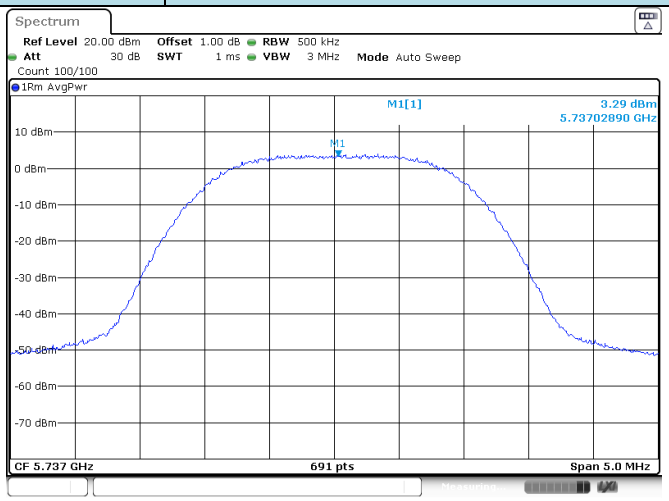
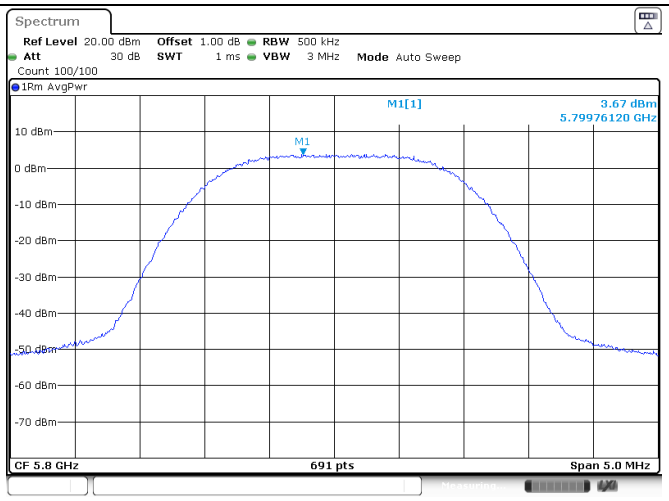
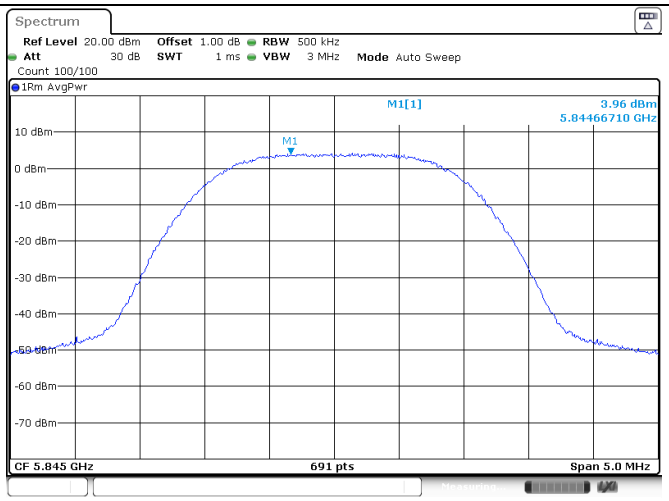
Antenna Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor（dB）	Conducted Output Power (dBm)	Limit (dBm)	Result
LG	CH_L	8.06	90.74	0.42	8.48	≤ 30.00	Pass
	CH_M	8.19	90.74	0.42	8.61		
	CH_H	8.60	90.74	0.42	9.02		
HG	CH_L	2.89	90.79	0.42	3.31	≤ 27.50	Pass
	CH_M	3.63	90.79	0.42	4.05		
	CH_H	3.72	90.74	0.42	3.14		

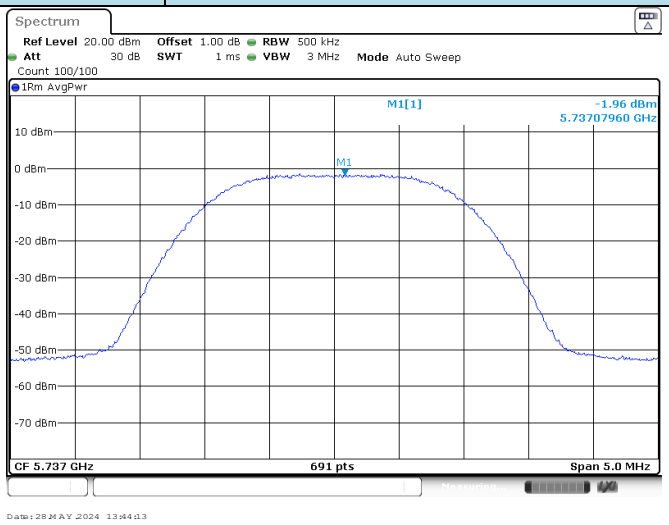
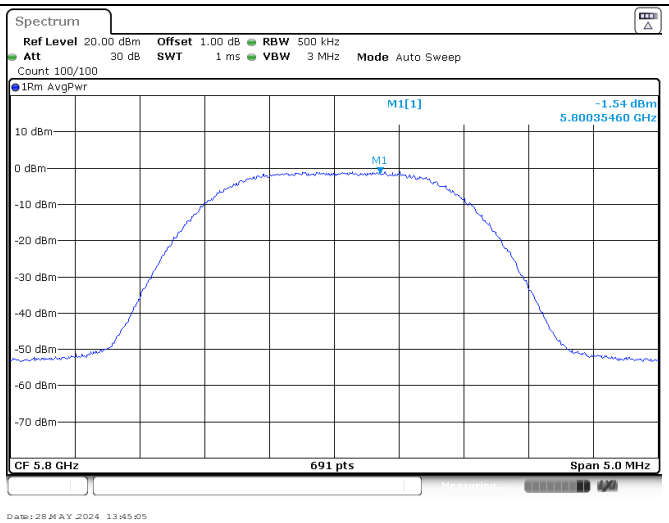
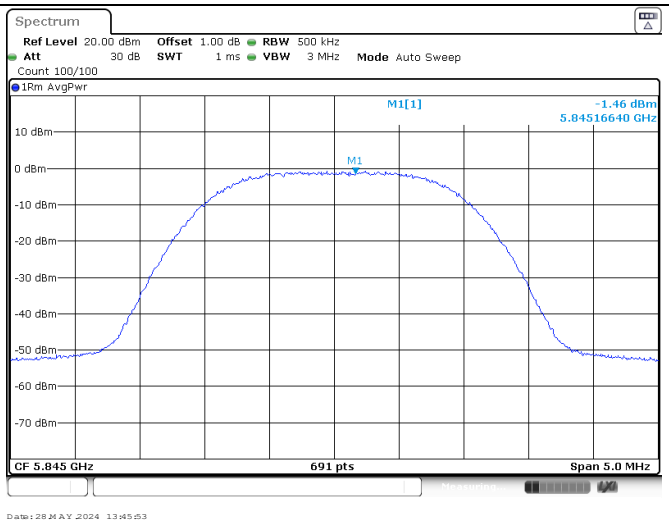
NOTE: duty cycle factor =10LOG(1/ duty cycle)

Appendix B：Maximum Power Spectral Density

Antenna Type	Channel	Reading (dBm)	Duty cycle (%)	Duty cycle factor （dB）	Power Spectral Density (dBm/500KHz)	Limit (dBm/500KHz)	Result
LG	CH_L	3.29	90.74	0.42	3.71	≤ 30.00	Pass
	CH_M	3.67	90.74	0.42	4.09		
	CH_H	3.96	90.74	0.42	4.38		
HG	CH_L	-1.96	90.79	0.42	-1.54	≤ 27.50	Pass
	CH_M	-1.54	90.79	0.42	-1.12		
	CH_H	-1.46	90.74	0.42	-1.04		

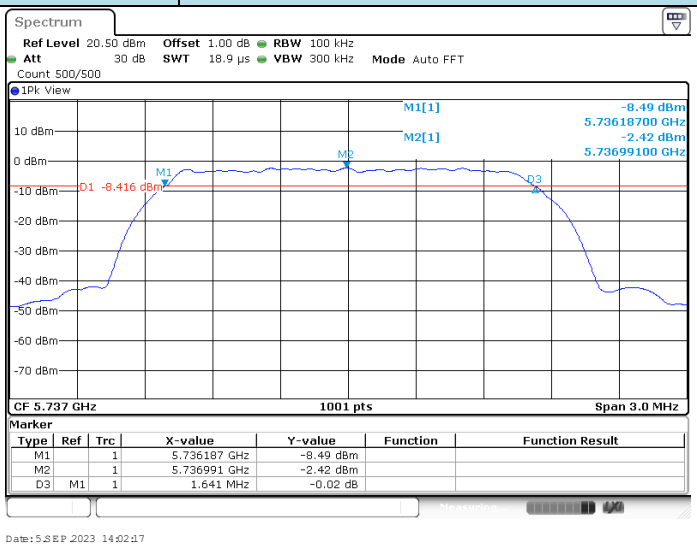
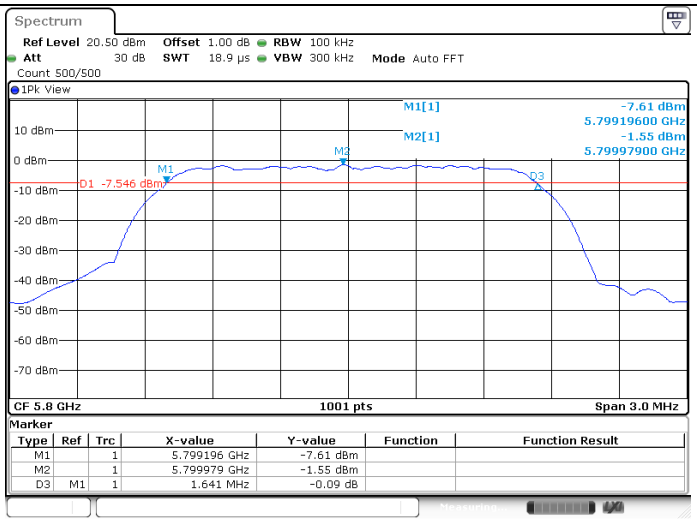
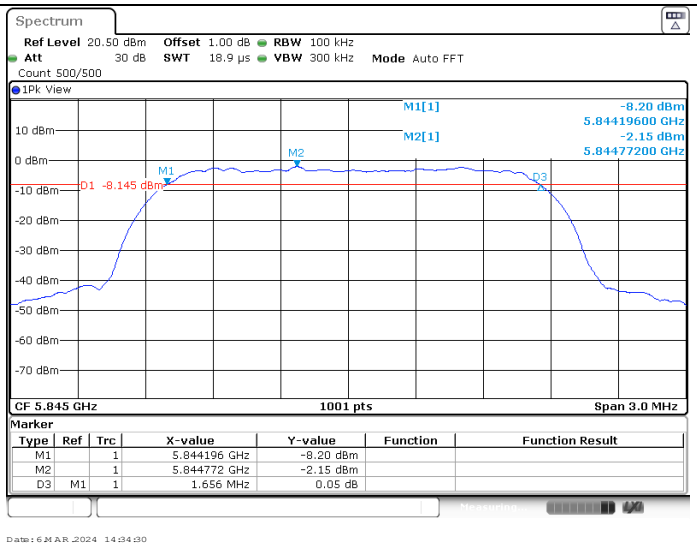
NOTE: duty cycle factor =10LOG(1/ duty cycle)

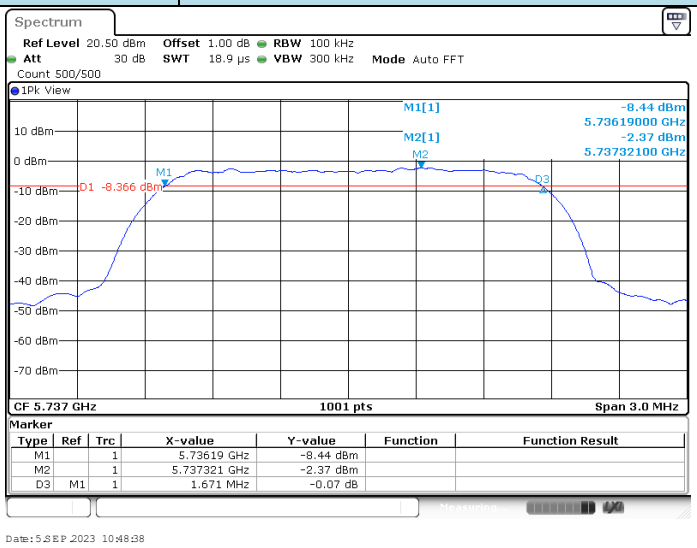
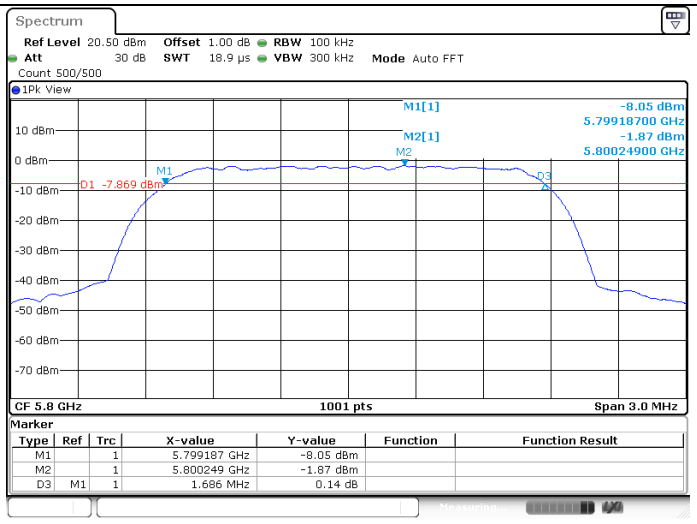
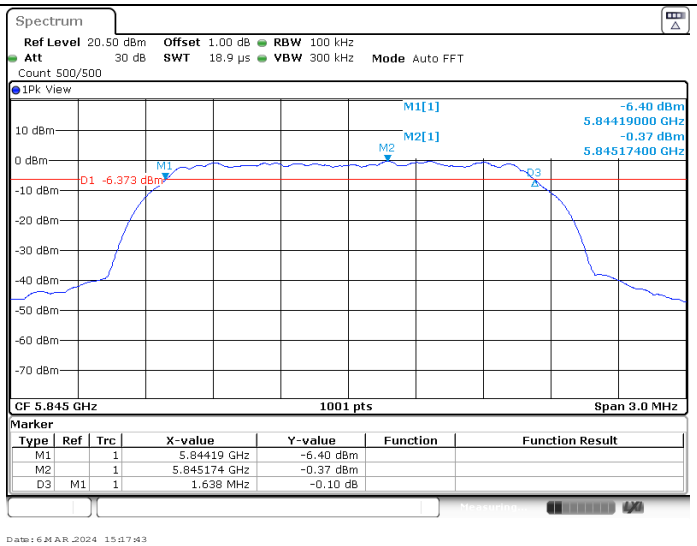
Antenna Type:	LG
CH_L	
CH_M	
CH_H	

Antenna Type:	HG
CH_L	
CH_M	
CH_H	

Appendix C：6dB bandwidth

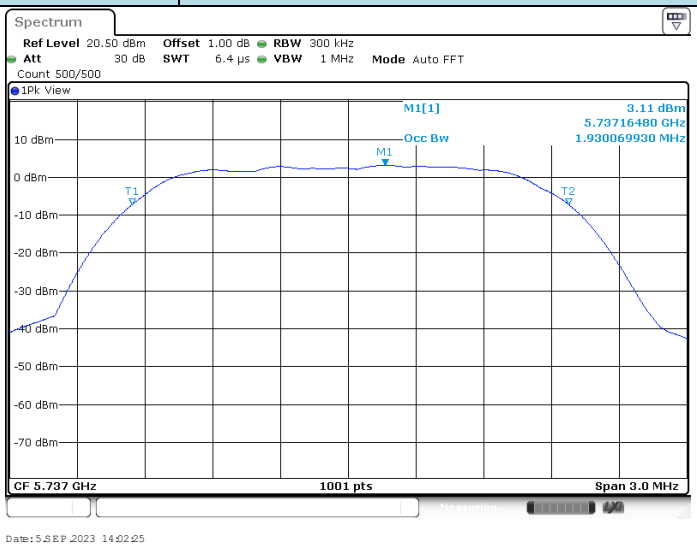
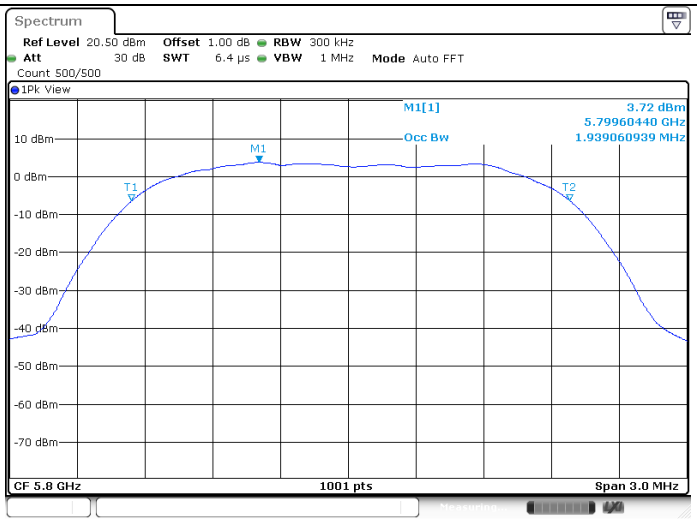
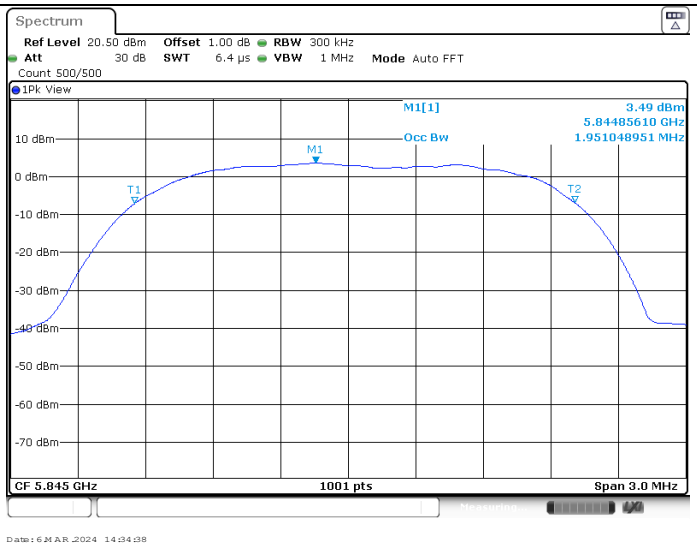
Antenna Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
LG	CH_L	1.64	≥0.5	Pass
	CH_M	1.64		
	CH_H	1.66		
HG	CH_L	1.67	≥0.5	Pass
	CH_M	1.69		
	CH_H	1.64		

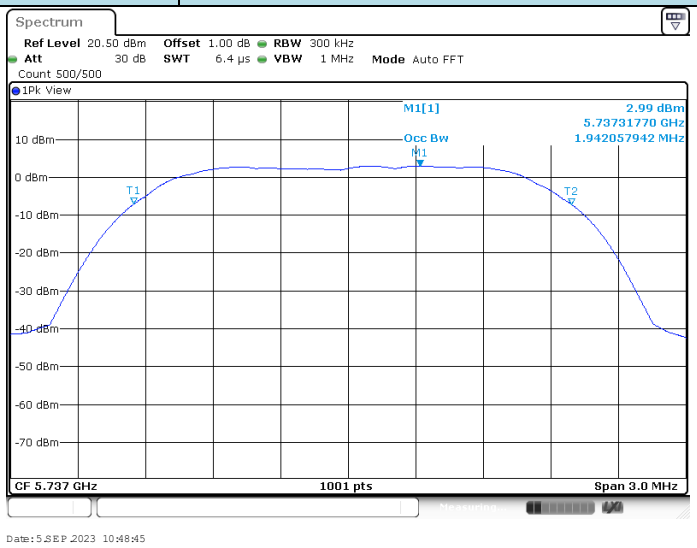
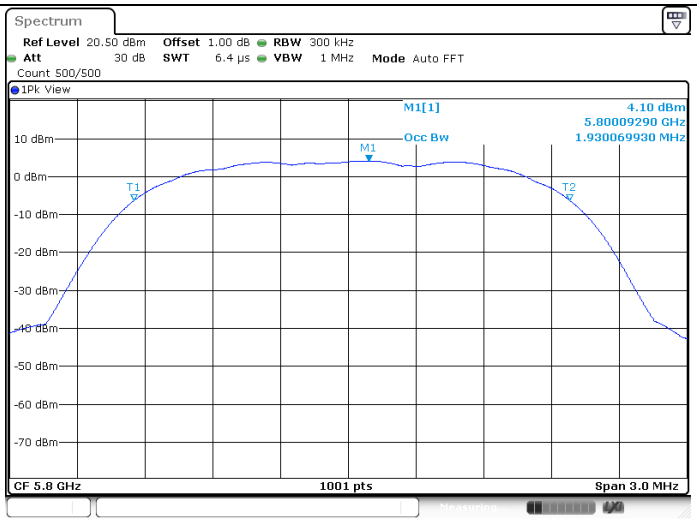
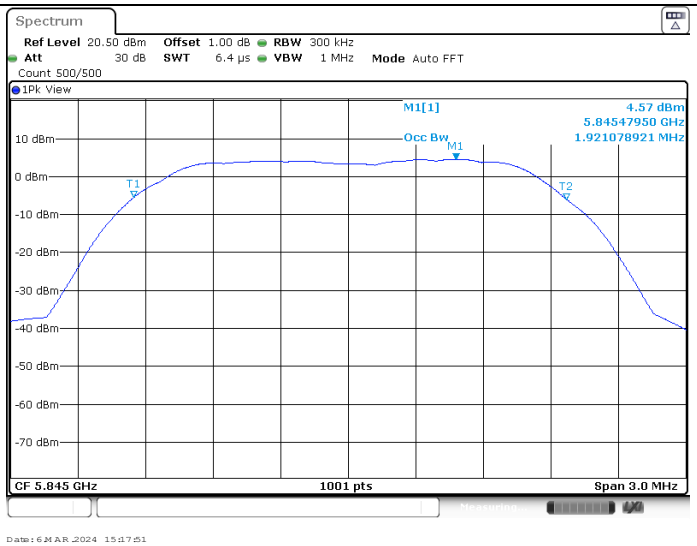
Antenna Type:	LG
CH_L	
CH_M	
CH_H	

Antenna Type:	**HG**
CH_L	
CH_M	
CH_H	

Appendix D：99% Occupied Bandwidth

Antenna Type	Channel	99% Bandwidth (MHz)	Limit (MHz)	Result
LG	CH_L	1.93	-	Pass
	CH_M	1.94		
	CH_H	1.95		
HG	CH_L	1.94	-	Pass
	CH_M	1.93		
	CH_H	1.92		

Antenna Type:	LG
CH_L	
CH_M	
CH_H	

Antenna Type:	HG
CH_L	
CH_M	
CH_H	

Appendix E: Frequency stability

Voltage VS Frequency stability

LG			Test Frequency: 5800.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
		Antenna 0	Antenna 0	
T_N	V_L	14000	2.4138	PASS
T_N	V_N	15000	2.5862	PASS
T_N	V_H	14000	2.4138	PASS

HG			Test Frequency: 5800.00MHz	
Temperature (℃)	Voltage (V)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
		Antenna 0	Antenna 0	
T_N	V_L	14000	2.4138	PASS
T_N	V_N	15000	2.5862	PASS
T_N	V_H	15000	2.5862	PASS

Temperature VS Frequency stability

LG			Test Frequency: 5800.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
		Antenna 0	Antenna 0	
V_N	-20	14000	2.4138	PASS
V_N	-10	15000	2.5862	PASS
V_N	0	14000	2.4138	PASS
V_N	10	14000	2.4138	PASS
V_N	20	14000	2.4138	PASS
V_N	30	15000	2.5862	PASS
V_N	40	14000	2.4138	PASS
V_N	50	15000	2.5862	PASS

HG			Test Frequency: 5800.00MHz	
Voltage (V)	Temperature (℃)	Frequency Deviation (Hz)	Frequency Deviation (ppm)	Result
		Antenna 0	Antenna 0	
V_N	-20	15000	2.5862	PASS
V_N	-10	14000	2.4138	PASS
V_N	0	14000	2.4138	PASS
V_N	10	14000	2.4138	PASS
V_N	20	14000	2.4138	PASS
V_N	30	14000	2.4138	PASS
V_N	40	14000	2.4138	PASS
V_N	50	14000	2.4138	PASS

--------End of Report--------