





9. FREQUENCY STABILITY MEASUREMENT

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,21	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.12,20	1 Year
3.	RF Cable	HUBER+SUHNER	SUCOFLEX-106	505238/6	Apr.07,21	1 Year

9.2. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

9.3. Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer. EUT have transmitted absence of modulation signal and fixed channelise. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings. fc is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f \times 10^6$ ppm. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
2. Extreme temperature rule is 0 °C~50 °C.

9.4. Test Result

EUT: Tablet		
M/N: CT9C08; CT9C18		
Test date: 2020-05-18	Pressure: 102.7 ±1.0 kpa	Humidity: 52.5 ±3.0%
Tested by: THOMAX	Test site: RF site	Temperature: 22.7 ±0.6 °C

Frequency Stability vs. Voltage:

Test Voltage	Temperature	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 102V	20°C	CH36	5179.9960	5180	-0.7722
		CH38	5189.9965	5190	-0.6744
		CH40	5199.9965	5200	-0.6731
		CH42	5209.9965	5210	-0.6718
		CH46	5229.9965	5230	-0.6692
		CH48	5239.9965	5240	-0.6679
		CH149	5744.9960	5745	-0.6963
		CH151	5754.9965	5755	-0.6082
		CH155	5774.9960	5775	-0.6926
		CH157	5784.9960	5785	-0.6914
		CH159	5794.9960	5795	-0.6903
		CH165	5824.9960	5825	-0.6867
AC 138V	20°C	CH36	5179.9963	5180	-0.7143
		CH38	5189.9962	5190	-0.7322
		CH40	5199.9965	5200	-0.6731
		CH42	5209.9964	5210	-0.6910
		CH46	5229.9970	5230	-0.5736
		CH48	5239.9968	5240	-0.6107
		CH149	5744.9967	5745	-0.5744
		CH151	5754.9961	5755	-0.6777
		CH155	5774.9955	5775	-0.7792
		CH157	5784.9965	5785	-0.6050
		CH159	5794.9958	5795	-0.7248
		CH165	5824.9954	5825	-0.7897
AC 120V	20°C	CH36	5179.9953	5180	-0.9073
		CH38	5189.9962	5190	-0.7322
		CH40	5199.9970	5200	-0.5769
		CH42	5209.9970	5210	-0.5758
		CH46	5229.9960	5230	-0.7648
		CH48	5239.9955	5240	-0.8588
		CH149	5744.9965	5745	-0.6092
		CH151	5754.9960	5755	-0.6950
		CH155	5774.9968	5775	-0.5541
		CH157	5784.9965	5785	-0.6050
		CH159	5794.9967	5795	-0.5695
		CH165	5824.9963	5825	-0.6352

Frequency Stability vs. Temperature:

Test Voltage	Temperature	CH	Max. Reading (MHz)	Target Frequency (MHz)	Result (ppm)
AC 120V	0°C	CH36	5179.9955	5180	-0.8687
		CH38	5189.9960	5190	-0.7707
		CH40	5199.9963	5200	-0.7115
		CH42	5209.9962	5210	-0.7294
		CH46	5229.9970	5230	-0.5736
		CH48	5239.9962	5240	-0.7252
		CH149	5744.9966	5745	-0.5918
		CH151	5754.9967	5755	-0.5734
		CH155	5774.9958	5775	-0.7273
		CH157	5784.9969	5785	-0.5359
		CH159	5794.9970	5795	-0.5177
		CH165	5824.9970	5825	-0.5150
AC 120V	10°C	CH36	5179.9965	5180	-0.6757
		CH38	5189.9961	5190	-0.7514
		CH40	5199.9969	5200	-0.5962
		CH42	5209.9960	5210	-0.7678
		CH46	5229.9970	5230	-0.5736
		CH48	5239.9963	5240	-0.7061
		CH149	5744.9970	5745	-0.5222
		CH151	5754.9975	5755	-0.4344
		CH155	5774.9965	5775	-0.6061
		CH157	5784.9969	5785	-0.5359
		CH159	5794.9965	5795	-0.6040
		CH165	5824.9957	5825	-0.7382
AC 120V	20°C	CH36	5179.9962	5180	-0.7336
		CH38	5189.9961	5190	-0.7514
		CH40	5199.9967	5200	-0.6346
		CH42	5209.9968	5210	-0.6142
		CH46	5229.9960	5230	-0.7648
		CH48	5239.9960	5240	-0.7634
		CH149	5744.9952	5745	-0.8355
		CH151	5754.9968	5755	-0.5560
		CH155	5774.9965	5775	-0.6061
		CH157	5784.9954	5785	-0.7952
		CH159	5794.9953	5795	-0.8110
		CH165	5824.9967	5825	-0.5665

AC 120V	30°C	CH36	5179.9970	5180	-0.5792
		CH38	5189.9968	5190	-0.6166
		CH40	5199.9975	5200	-0.4808
		CH42	5209.9975	5210	-0.4798
		CH46	5229.9968	5230	-0.6119
		CH48	5239.9969	5240	-0.5916
		CH149	5744.9970	5745	-0.5222
		CH151	5754.9953	5755	-0.8167
		CH155	5774.9951	5775	-0.8485
		CH157	5784.9957	5785	-0.7433
		CH159	5794.9954	5795	-0.7938
		CH165	5824.9965	5825	-0.6009
AC 120V	40°C	CH36	5179.9963	5180	-0.7143
		CH38	5189.9962	5190	-0.7322
		CH40	5199.9960	5200	-0.7692
		CH42	5209.9974	5210	-0.4990
		CH46	5229.9959	5230	-0.7839
		CH48	5239.9962	5240	-0.7252
		CH149	5744.9962	5745	-0.6614
		CH151	5754.9969	5755	-0.5387
		CH155	5774.9952	5775	-0.8312
		CH157	5784.9953	5785	-0.8124
		CH159	5794.9957	5795	-0.7420
		CH165	5824.9969	5825	-0.5322
AC 120V	50°C	CH36	5179.9965	5180	-0.6757
		CH38	5189.9970	5190	-0.5780
		CH40	5199.9965	5200	-0.6731
		CH42	5209.9980	5210	-0.3839
		CH46	5229.9975	5230	-0.4780
		CH48	5239.9965	5240	-0.6679
		CH149	5744.9955	5745	-0.7833
		CH151	5754.9963	5755	-0.6429
		CH155	5774.9970	5775	-0.5195
		CH157	5784.9958	5785	-0.7260
		CH159	5794.9950	5795	-0.8628
		CH165	5824.9975	5825	-0.4292

10. ANTENNA REQUIREMENT

10.1. Standard Applicable

For intentional device, according to FCC 47 CFR 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. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. Antenna Connected Construction

The antennas used for this product are FPCB Antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 1.5dBi for CT9C08 and 1dBi for CT9C18.

11. DEVIATION TO TEST SPECIFICATIONS

[NONE]

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