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| Test Writer: Jeremiah Franke | | | | | | | | | | | | |
| Test Case Name: | | | | | RF module Test | | | | | Test ID#: | | RFM-1 |
| Description: | | | | | Test that the output of the RF chip is approximately 2v when supplied with a 410 to 510Mhz radio signal. | | | | | Type: | | Black Box  White Box |
| Tester Information: | | | | | | | | | | | | |
| Name of Tester: | | |  | | | | | Date: | | |  | |
| Hardware Ver: | | | 1.0 | | | | | Time: | | |  | |
| Setup: | | | | | | | | Have a frequency generator. Make sure to have power going to the RF chip. Have a capacitor between the power source and RF chip. Have a voltmeter for measuring output of the RF chip. Ground the RF chip and power source. | | | | |
| Step | Action | Expected Result | | Pass | | Fail | N/A | | Comments | | | |
| 1 | Hook 5v output to capacitor. | No smoke. | |  | |  |  | |  | | | |
| 2 | Hook output lead from capacitor to power input of RF chip. | No smoke. | |  | |  |  | |  | | | |
| 3 | Set frequency generator to 410Mhz. | 410Mhz on generator output screen | |  | |  |  | |  | | | |
| 4 | Hook 410Mhz output from frequency generator to frequency input on RF chip. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| 5 | Change frequency generator to 420Mhz. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| 6 | Change frequency generator to 440Mhz. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| 7 | Change frequency generator to 460Mhz. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| 8 | Change frequency generator to 480Mhz. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| 9 | Change frequency generator to 500Mhz. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| 10 | Change frequency generator to 510Mhz. | Approximately 2v on output of frequency generator. | |  | |  |  | |  | | | |
| Overall test results: | | | |  | |  |  | |  | | | |