

EXHIBIT D(9)

[FCC 2.1055]

2.1055 Frequency Stability

The frequency stability shall be maintained within 2.5 ppm over a range of:

- a) Temperature from -30 to +50 degrees Celsius at rated supply and with the supply voltage reduced to the battery operating end point.
- b) Supply voltage to the battery operating end point.

TEST RESULTS:

The largest deviation from the authorized carrier frequency was 1031Hz at -20 degrees Celsius. The limit is 1156Hz.

TEST CONDITIONS:

<u>Supply Voltage:</u>	4.5VDC
<u>Temperature:</u>	-20, -10, 0, +10, +20, +30, +40, +50, ± 3 degrees Celsius
<u>Supply Voltages:</u>	3.6 to 5.4VDC
<u>Temperature:</u>	+20 degrees Celsius
<u>Modulation:</u>	Transmitter was unmodulated.

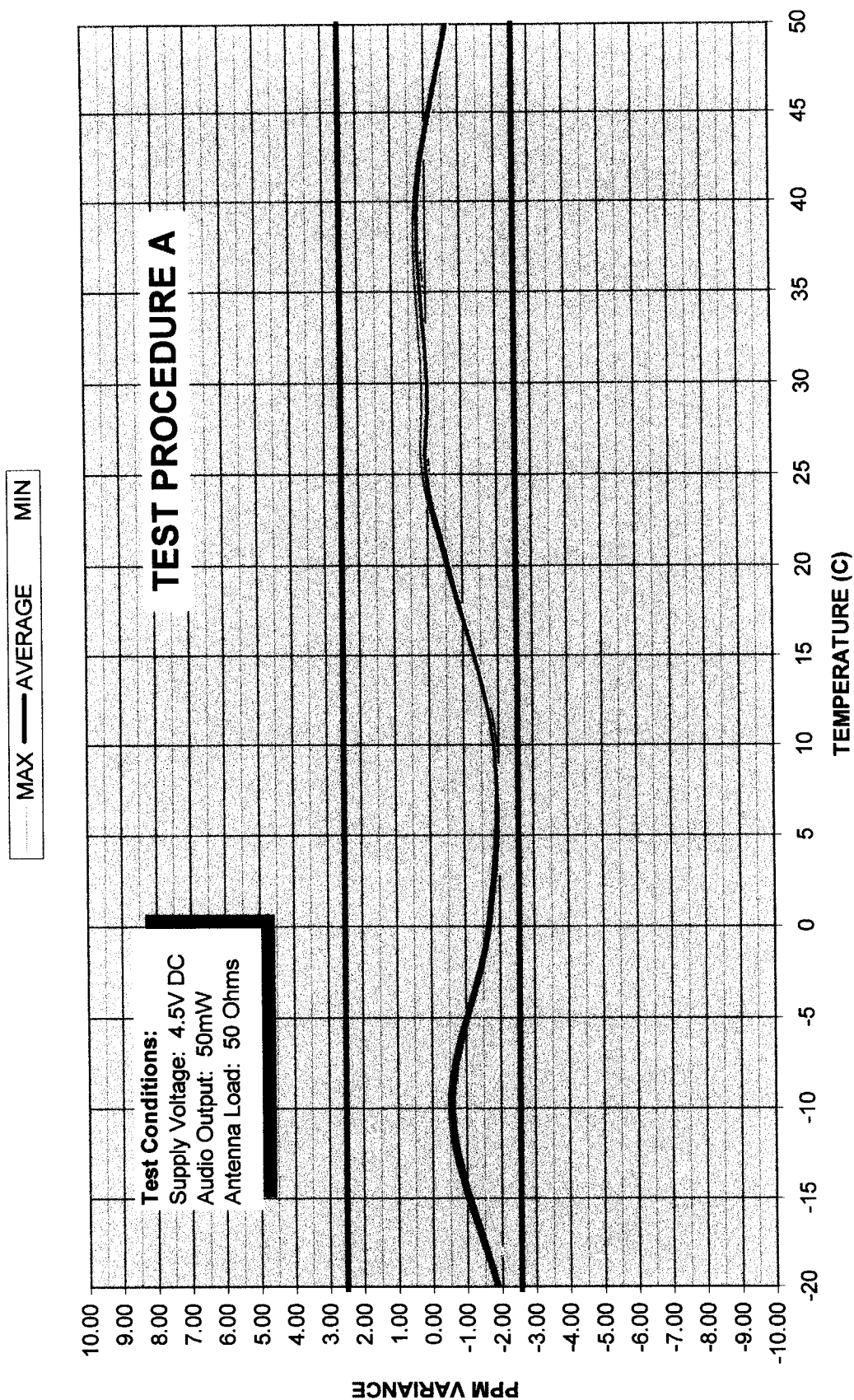
METHOD OF MEASUREMENT:

The test sample was placed in a thermal chamber and the frequency was monitored by a spectrum analyzer and recorded at 1 minute intervals.

At +20 degrees Celsius, after the chamber had stabilized for at least 60 minutes and the sample had been turned off for 15 minutes, the transmitter was operated continuously for 5 minutes at each voltage condition. At the temperature extremes, the transmitter was operated for 10 minutes following stabilization. The frequencies were recorded at 1 minute intervals. The temperature was monitored by a thermocouple on the enclosure of the sample.

FCC TEST DATA

3-5800: FREQUENCY OVER TEMPERATURE STABILITY



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3-5800: FREQUENCY OVER TEMPERATURE STABILITY

TEST CONDITION (A): Continuous 10 minute transmit - Recording every minute												
TEMP (C)	-20	-10	0	10	20	25	30	40	50			
	462.561400	462.561900	462.561570	462.561575	462.562125	462.562500	462.562500	462.562580	462.562100	Initial (MHz)		
A0	1400	1900	1570	1575	2125	2500	2500	2580	2100	Initial		
A1	1500	2060	1590	1545	2190	2430	2430	2520	2095	minute 1		
A2	1590	2150	1645	1550	2175	2420	2400	2512	2120	minute 2		
A3	1590	2180	1670	1550	2160	2420	2395	2515	2136	minute 3		
A4	1593	2200	1680	1550	2160	2420	2395	2518	2145	minute 4		
A5	1600	2220	1680	1550	2160	2420	2395	2518	2147	minute 5		
A6	1600	2220	1680	1550	2160	2420	2395	2518	2148	minute 6		
A7	1600	2220	1680	1550	2160	2430	2395	2518	2148	minute 7		
A8	1600	2220	1680	1550	2160	2430	2395	2518	2148	minute 8		
A9	1600	2220	1680	1550	2160	2430	2395	2518	2148	minute 9		
A10	1600	2220	1680	1550	2160	2430	2395	2518	2148	minute 10		
+	1600	2220	1680	1575	2190	2500	2500	2580	2148			
AVG	1570	2165	1658	1552	2161	2432	2408	2523	2135			
.	1400	1900	1570	1545	2125	2420	2395	2512	2095			
+	-1.80	-0.46	-1.63	-1.85	-0.52	0.15	0.15	0.32	-0.61			
PPM AVG	-1.86	-0.58	-1.67	-1.90	-0.59	0.00	-0.05	0.20	-0.64			
.	-2.23	-1.15	-1.86	-1.92	-0.66	-0.03	-0.08	0.17	-0.73			