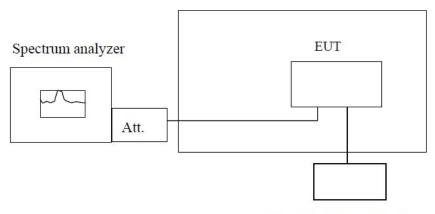
Temperature Chamber



Variable Power Supply

Note: Measurement setup for testing on Antenna connector

13.3 Test Result

Remark: All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Chain 0

Test Frequency: 3655MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	
-40		107	0.1279	
-25		123	0.1470	
-10		105	0.1255	
0		114	0.1363	
10	120	118	0.1410	
20		108	0.1291	
30		111	0.1327	
40		121	0.1446	
55		120	0.1434	

Test Frequency: 3660MHz QPSK 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	
-40		115	0.1375	
-25		106	0.1267	
-10		108	0.1291	
0		109	0.1303	
10	120	114	0.1363	
20		111	0.1327	
30		106	0.1267	
40		110	0.1315	
55		107	0.1279	

Reference No.: WTS17S0989524-1E V10 Page 60 of 72

Chain 1

Test Frequency: 3655MHz QPSK 10MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	
-40		119	0.1422	
-25		119	0.1422	
-10		122	0.1458	
0		121	0.1446	
10	120	123	0.1470	
20		113	0.1351	
30		121	0.1446	
40		119	0.1422	
55		121	0.1446	

Test Frequency: 3660MHz QPSK 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	
-40		97	0.1159	
-25		112	0.1339	
-10		96	0.1148	
0		103	0.1231	
10	120	101	0.1207	
20		111	0.1327	
30		99	0.1183	
40		112	0.1339	
55		110	0.1315	

Reference No.: WTS17S0989524-1E V10 Page 61 of 72

14 Frequency stability V.S. Voltage measurement

Test Requirement: FCC Part90.213(a) and RSS 197 section 5.3

Test Method: FCC Part2.1055(a)(1)(b) and RSS Gen section 6.1.1

Test Mode: Data communicating mode

Limit: FCC:

F	Fixed and base stations (±ppm)	Mobile stations (±ppm)		
Frequency range (MHz)	Fixed and base stations (±ppm)	Over 2 watts output power	2 watts or less output power	
Below 25	100	100	200	
25-50	20	20	50	
72-76	5		50	
150-174	5	5	50	
216-220	1.0		1.0	
220-222	0.1	1.5	1.5	
421-512	2.5	5	5	
806-809	1.0	1.5	1.5	
809-824	1.5	2.5	2.5	
851-854	1.0	1.5	1.5	
854-869	1.5	2.5	2.5	
896-901	0.1	1.5	1.5	
902-928	2.5	2.5	2.5	
902-928	2.5	2.5	2.5	
929-930	1.5			
935-940	0.1	1.5	1.5	
1427-1435	300	300	300	
Above 2450				

IC:

The transmitter frequency stability limit shall be determined as follows:

- (a) The frequency offset shall be measured according to the procedure described in RSS-Gen and recorded;
- (b) Using a resolution bandwidth of 1% of the occupied bandwidth, a reference point at the unwanted emission level specified in Section 5.7 on the emission mask of the lowest and highest channel shall be selected, and the frequency at these points shall be recorded as fL and fH respectively.

The applicant shall ensure frequency stability by showing that fL minus the frequency offset and fH plus the frequency offset shall be within the 3650-3700 MHz band.

14.1 EUT Operation

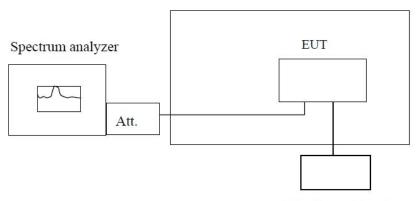
Operating Environment:

Temperature: 22.9 °C
Humidity: 52.0 % RH
Atmospheric Pressure: 101.3kPa

14.2 Test Procedure

- 1. Set chamber temperature to 25 ℃. Use a variable DC power source to power the EUT and set the voltage to rated voltage.
- 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.
- Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.

Temperature Chamber



Variable Power Supply

Note: Measurement setup for testing on Antenna connector

14.3 Test Result

Remark: All three channels of all modulations have been tested, but only the worst channel and the worst modulation show in this test item.

Chain 0

Test Frequency: 3655MHz QPSK 10MHz				
Temperature (°C)	re Power Supply Frequency Error Frequency Error (VDC) (Hz) (ppm)			
	105	107	0.1279	
25	120	96	0.1148	
	144	97	0.1159	

Test Frequency: 3660MHz QPSK 20MHz				
Temperature Power Supply Frequency Error Frequency Error (C) (VDC) (Hz) (ppm)				
	105	96	0.1148	
25	120	99	0.1183	
	144	108	0.1291	

Chain 1

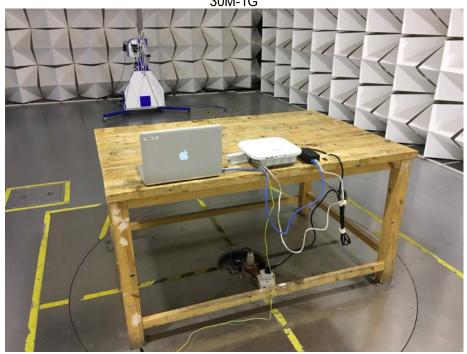
Test Frequency: 3655MHz QPSK 10MHz				
Temperature (°C)				
	105	97	0.1159	
25	120	94	0.1124	
	144	101	0.1207	

Test Frequency: 3660MHz QPSK 20MHz				
Temperature (°C)	Power Supply (VDC)	Frequency Error (Hz)	Frequency Error (ppm)	
	105	105	0.1255	
25	120	102	0.1219	
	144	110	0.1315	

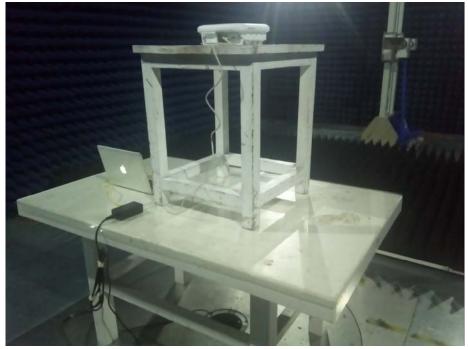
15 Photographs of test setup and EUT.

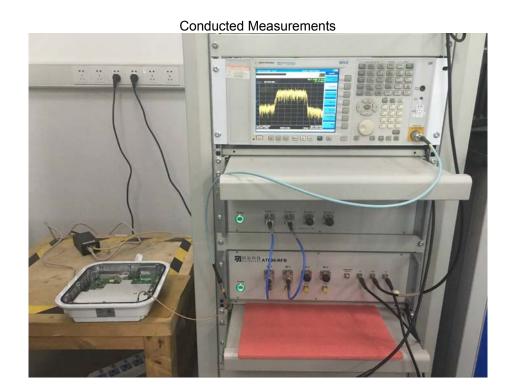
15.1 Test Setup











15.2 EUT - External View













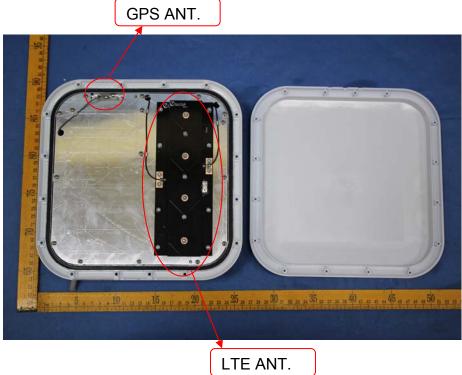


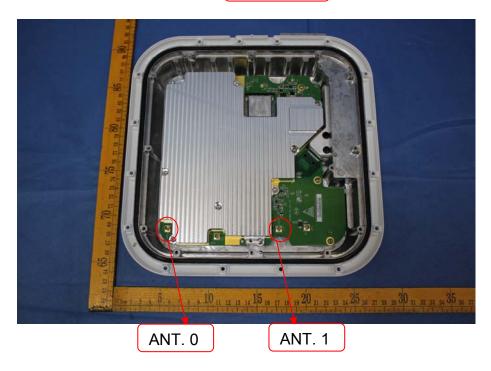






15.3 EUT - Internal View









===== End of Report =====