

FCC RADIO TEST REPORT

FCC ID: 2AB9N-T5T3

Of

Product Name: GSM mobile phone

Brand Name: N/A

Model No.: T5

Series Model: T3

Test Report Number: STS1409009F02

Issued for

TUC INDUSTIRAL CO.,LTD

Room 2106 Block A, Huaqiangbei, Electronic Technology Building, Futian District, Shenzhen

Issued by

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All Test Data Presented in this report is only applicable to presented Test sample.

TEST RESULT CERTIFICATION

Applicant's name TUC INDUSTIRAL CO.,LTD

Room 2106 Block A, Huagiangbei, Electronic Technology Address Building, Futian, District, Shenzhen

Manufacture's Name TUC INDUSTIRAL CO.,LTD

Room 2106 Block A, Huagiangbei, Electronic Technology Address.....

Building, Futian, District, Shenzhen

Product description

Product name...... GSM mobile phone

Band name N/A

Model and/or type

reference

Ratings...... DC 5V/0.50A

Standards FCC Part15.247

Test procedure ANSI C63.10-2009

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests.. Sep 11, 2014 ~Sep 18, 2014

Date of Issue Sep 19, 2014

Test Result Pass

Testing Engineer

(Tony Liu)

Technical Manager

Authorized Signatory:

(Bovey Yang)

1. SUMMARY OF TEST RESULTS 5 1.1 TEST FACILITY 6 1.2 MEASUREMENT UNCERTAINTY 6 2. GENERAL INFORMATION 7 2.1 GENERAL DESCRIPTION OF EUT 7 2.2 DESCRIPTION OF TEST MODES 9 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 9 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3. EMC EMISSION TEST 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 TEST RESULTS (BELOW 30 MHZ) 21 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BELOW	Table of Contents	Page
1.2 MEASUREMENT UNCERTAINTY 2. GENERAL INFORMATION 2.1 GENERAL DESCRIPTION OF EUT 2.2 DESCRIPTION OF TEST MODES 9 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 9 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3. EMC EMISSION TEST 3.1 CONDUCTED EMISSION MEASUREMENT 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION MEASUREMENT 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST PROCEDURE 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BELOW 30 MHZ) 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS 5. NUMBER OF HOPPING CHANNEL 5.1.1 TEST PROCEDURE / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD	1 . SUMMARY OF TEST RESULTS	5
2 . GENERAL INFORMATION 7 2.1 GENERAL DESCRIPTION OF EUT 7 2.2 DESCRIPTION OF TEST MODES 9 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 9 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3 . EMC EMISSION TEST 13 3.1 CONDUCTED EMISSION MEASUREMENT 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION MEASUREMENT 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 10 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BELOW 30 MHZ) 21 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 4.1 REQUIREMENT 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 26 4.1.1 TEST PROCEDURE 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS (SHANNEL 36 5.1.1 TEST PROCEDURE 5 / LIMIT 36 5.1.2 DEVIATION FROM STANDARD 36	1.1 TEST FACILITY	6
2.1 GENERAL DESCRIPTION OF EUT 7 2.2 DESCRIPTION OF TEST MODES 9 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 9 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3 . EMC EMISSION TEST 13 3.1 CONDUCTED EMISSION MEASUREMENT 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.8 TEST RESULTS (BELOW 30 MHZ) 22 3.2.8 TEST RESULTS (BELOW 30 MHZ) 26 4.1.1 REQUIREMENT 26 <td< td=""><td>1.2 MEASUREMENT UNCERTAINTY</td><td>6</td></td<>	1.2 MEASUREMENT UNCERTAINTY	6
2.2 DESCRIPTION OF TEST MODES 9 2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 9 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3 . EMC EMISSION TEST 13 3.1 CONDUCTED EMISSION MEASUREMENT 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.8 TEST RESULTS (BELOW 30 MHZ) 22 3.2.8 TEST RESULTS (BELOW 30 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 DEVIATION FROM STANDARD 26 4	2 . GENERAL INFORMATION	7
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING 9 2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3 .EMC EMISSION TEST 13 3.1 CONDUCTED EMISSION MEASUREMENT 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BELOW 30 MHZ) 21 3.2.8 TEST RESULTS (BELOW 30 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 26 4.1.2 TEST RESULTS 26 4.1.4 EUT OPERATION C	2.1 GENERAL DESCRIPTION OF EUT	7
2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10 2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) 11 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3 EMC EMISSION TEST 13 3.1 CONDUCTED EMISSION MEASUREMENT 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BELOW 30 MHZ) 21 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 </td <td>2.2 DESCRIPTION OF TEST MODES</td> <td>9</td>	2.2 DESCRIPTION OF TEST MODES	9
2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE) 2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 3. EMC EMISSION TEST 3.1 CONDUCTED EMISSION MEASUREMENT 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BELOW 30 MHZ) 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.1 TEST PROCEDURE 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD	2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	9
2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS 12 3 . EMC EMISSION TEST 13 3.1 CONDUCTED EMISSION MEASUREMENT 13 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 14 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36	2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 10
3 . EMC EMISSION TEST 3.1 CONDUCTED EMISSION MEASUREMENT 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 15 3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BELOW 30 MHZ) 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 TEST PROCEDURE 4.1.2 TEST PROCEDURE 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.1 TEST PROCEDURES / LIMIT 5.1.2 DEVIATION FROM STANDARD 36	2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)	11
3.1 CONDUCTED EMISSION MEASUREMENT 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE 14 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BELOW 30 MHZ) 21 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESULTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD	2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS	12
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 15 3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 TEST PROCEDURE 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD	3 . EMC EMISSION TEST	13
3.1.2 TEST PROCEDURE 3.1.3 DEVIATION FROM TEST STANDARD 14 3.1.4 TEST SETUP 14 3.1.5 EUT OPERATING CONDITIONS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 27 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURE 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD		_
3.1.3 DEVIATION FROM TEST STANDARD 3.1.4 TEST SETUP 3.1.5 EUT OPERATING CONDITIONS 3.1.6 TEST RESULTS 3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 2.2 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 2.6 4.1.4 EUT OPERATION CONDITIONS 2.6 4.1.5 TEST RESULTS 2.7 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 3.6 5.1.2 DEVIATION FROM STANDARD		_
3.1.4 TEST SETUP 3.1.5 EUT OPERATING CONDITIONS 3.1.6 TEST RESULTS 3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 2.2 3.2.8 TEST RESULTS (ABOVE 1000 MHZ) 2.4 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 2.6 4.1.4 EUT OPERATION CONDITIONS 2.7 STANDARD 3.8 TEST RESULTS 3.9 TEST RESULTS 4.1.5 TEST RESULTS 4.1.6 TEST RESULTS 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURE 5.1.2 DEVIATION FROM STANDARD 3.6 STANDARD 3.7 TEST PROCEDURE 3.8 TEST RESULTS 3.9 TEST RESULTS 3.1 TEST PROCEDURE 3.1 TEST PROCEDURE 3.1 TEST PROCEDURE 3.2 TEST RESULTS 3.3 TEST RESULTS 3.4 TEST RESULTS 4.5 TEST RESULTS 4.7 TEST RESULTS 4.7 TEST RESULTS 4.7 TEST PROCEDURES / LIMIT TEST PROCEDURES / LIMI		
3.1.5 EUT OPERATING CONDITIONS 3.1.6 TEST RESULTS 15 3.2 RADIATED EMISSION MEASUREMENT 17 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 18 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD		= =
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS 17 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURE 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD		
3.2.1 RADIATED EMISSION LIMITS 3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURE 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD	3.1.6 TEST RESULTS	15
3.2.2 TEST PROCEDURE 3.2.3 DEVIATION FROM TEST STANDARD 18 3.2.4 TEST SETUP 19 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 24 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURE / LIMIT 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36	3.2 RADIATED EMISSION MEASUREMENT	17
3.2.3 DEVIATION FROM TEST STANDARD 3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD		
3.2.4 TEST SETUP 3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36 5.1.2 DEVIATION FROM STANDARD		_
3.2.5 EUT OPERATING CONDITIONS 20 3.2.6 TEST RESULTS (BELOW 30 MHZ) 21 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36		_
3.2.6 TEST RESULTS (BELOW 30 MHZ) 3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 22 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36		_
3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ) 3.2.8 TEST RESU LTS (ABOVE 1000 MHZ) 4.1 REQUIREMENT 4.1.2 TEST PROCEDURE 4.1.2 DEVIATION FROM STANDARD 4.1.3 TEST SETUP 4.1.4 EUT OPERATION CONDITIONS 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36		
4.1 REQUIREMENT 26 4.1.2 TEST PROCEDURE 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36	,	
4.1.2 TEST PROCEDURE 26 4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36	3.2.8 TEST RESU LTS (ABOVE 1000 MHZ)	24
4.1.2 DEVIATION FROM STANDARD 26 4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36		26
4.1.3 TEST SETUP 26 4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36		
4.1.4 EUT OPERATION CONDITIONS 26 4.1.5 TEST RESULTS 27 5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 36		
4.1.5 TEST RESULTS 5. NUMBER OF HOPPING CHANNEL 5.1 APPLIED PROCEDURES / LIMIT 5.1.1 TEST PROCEDURE 5.1.2 DEVIATION FROM STANDARD 27 36 36		
5. NUMBER OF HOPPING CHANNEL 36 5.1 APPLIED PROCEDURES / LIMIT 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36		
5.1 APPLIED PROCEDURES / LIMIT 36 5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36		
5.1.1 TEST PROCEDURE 36 5.1.2 DEVIATION FROM STANDARD 36		
5.1.2 DEVIATION FROM STANDARD 36		
5.1.3 TEST SETUP 36		
	5.1.3 TEST SETUP	36

Table of Contents	Page
5.1.4 EUT OPERATION CONDITIONS 5.1.5 TEST RESULTS	36 37
6. AVERAGE TIME OF OCCUPANCY	38
6.1 APPLIED PROCEDURES / LIMIT	38
6.1.1 TEST PROCEDURE 6.1.2 DEVIATION FROM STANDARD	38 38
6.1.3 TEST SETUP	36 38
6.1.4 EUT OPERATION CONDITIONS	38
6.1.5 TEST RESULTS	39
7. HOPPING CHANNEL SEPARATION MEASUREMEN	45
7.1 APPLIED PROCEDURES / LIMIT	45
7.1.1 TEST PROCEDURE	45
7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP	45 45
7.1.4 EUT OPERATION CONDITIONS	45
7.1.4 TEST RESULTS	46
8. BANDWIDTH TEST	52
8.1 APPLIED PROCEDURES / LIMIT	52
8.1.1 TEST PROCEDURE	52 50
8.1.2 DEVIATION FROM STANDARD 8.1.3 TEST SETUP	52 52
8.1.4 EUT OPERATION CONDITIONS	52 52
8.1.5 TEST RESULTS	53
9. PEAK OUTPUT POWER TEST	59
9.1 APPLIED PROCEDURES / LIMIT	59
9.1.1 TEST PROCEDURE	59 50
9.1.2 DEVIATION FROM STANDARD 9.1.3 TEST SETUP	59 59
9.1.4 EUT OPERATION CONDITIONS	59
9.1.5 TEST RESULTS	60
10. ANTENNA REQUIREMENT	61
10.1 STANDARD REQUIREMENT	61
10.2 EUT ANTENNA APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	61

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.247) , Subpart C				
Standard Section	Lest Item				
15.207	Conducted Emission	PASS			
15.247(a)(1)	Hopping Channel Separation	PASS			
15.247(b)(1)	Peak Output Power	PASS			
15.247(c)	Radiated Spurious Emission	PASS			
15.247(d)	Conducted Spurious Emission	PASS			
15.247(a)(iii)	Number of Hopping Frequency	PASS			
15.247(a)(iii)	Dwell Time	PASS			
15.247(a)(1)	Bandwidth	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd. 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China FCC Registration No.: 842334

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	GSM mobile phone
Trade Name	N/A
Model Name	T5
Serial Model	Т3
Model Difference	Only difference in model name
Channel List	Please refer to the Note 2.
Bluetooth	Frequency:2402 – 2480 MHz Modulation: GFSK(1Mbps), π/4-DQPSK(2Mbps), 8-DPSK(3Mbps)
Adapter	Input:AC 100-240V,50/60Hz,0.10A
Adapter	Output:DC 5V,500mA
	Rated Voltage: 3.7V
Battery	Charge Limit: 4.2V
	capacity :1800mAh
Hardware version number	
Software versioning number	
Connecting I/O Port(s)	Please refer to the User's Manual

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

	Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
00	2402	27	2429	54	2456	
01	2403	28	2430	55	2457	
02	2404	29	2431	56	2458	
03	2405	30	2432	57	2459	
04	2406	31	2433	58	2460	
05	2407	32	2434	59	2461	
06	2408	33	2435	60	2462	
07	2409	34	2436	61	2463	
08	2410	35	2437	62	2464	
09	2411	36	2438	63	2465	
10	2412	37	2439	64	2466	
11	2413	38	2440	65	2467	
12	2414	39	2441	66	2468	
13	2415	40	2442	67	2469	
14	2416	41	2443	68	2470	
15	2417	42	2444	69	2471	
16	2418	43	2445	70	2472	
17	2419	44	2446	71	2473	
18	2420	45	2447	72	2474	
19	2421	46	2448	73	2475	
20	2422	47	2449	74	2476	
21	2423	48	2450	75	2477	
22	2424	49	2451	76	2478	
23	2425	50	2452	77	2479	
24	2426	51	2453	78	2480	
25	2427	52	2454			
26	2428	53	2455			

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PIFA Antenna	NA	0	BT Antenna

The EUT antenna is integral Antenna. no antenna other than that furnished by the responsible party shall be used with the device.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

For Conducted Emission		
Final Test Mode	Description	
Mode4	Charging	

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: N/A				
Frequency	2402 MHz 2441 MHz 2480 MHz				
Parameters(1Mbps)	DEF DEF DEF				

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED Radiated Spurious Emission Test E-1 EUT **Conducted Emission Test** AC Plug E-1 E-2 **EUT** Adapter C-1

2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	GSM mobile phone	N/A	T5	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	No	No	1.5M	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.06	2015.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2014.06.08	2015.06.07	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.06	2015.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.06.06	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.06	2015.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.06	2015.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2013.12.22	2014.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment	rer			calibration	until	period
1	Test Receiver	R&S	ESCI	101160	2014.06.06	2015.06.05	1 year
2	LISN	R&S	ENV216	101313	2014.08.24	2015.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.06	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.06	2015.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.06.08	2015.06.07	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A	(dBuV)	Class B	Standard	
	Quasi-peak	Average	Quasi-peak	Average	Statiuatu
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		

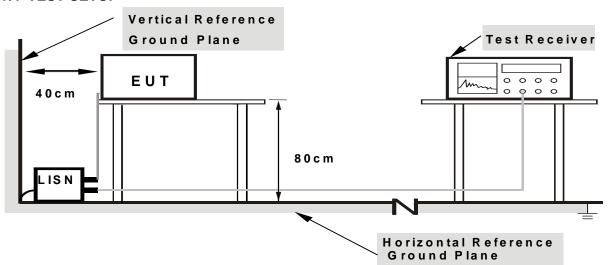
3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

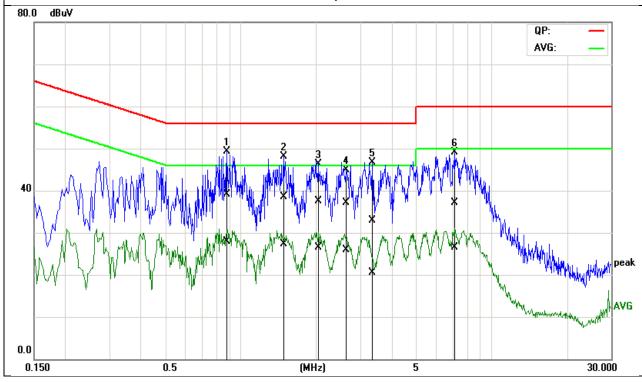
3.1.6 TEST RESULTS

EUT:	GSM mobile phone	Model Name. :	T5
Temperature:	23 ℃	Relative Humidity:	50%
Pressure :	1010hPa	Phase:	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
	reading	reading	factor	result	result	limit	limit	margin	margin	
(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
0.8885	19.22	8.02	19.84	39.06	27.86	56.00	46.00	-16.94	-18.14	Pass
1.4820	18.54	7.41	19.88	38.42	27.29	56.00	46.00	-17.58	-18.71	Pass
2.0452	17.49	6.57	19.94	37.43	26.51	56.00	46.00	-18.57	-19.49	Pass
2.5980	17.09	5.86	20.00	37.09	25.86	56.00	46.00	-18.91	-20.14	Pass
3.3561	12.72	0.32	20.10	32.82	20.42	56.00	46.00	-23.18	-25.58	Pass
7.1657	16.69	5.95	20.50	37.19	26.45	60.00	50.00	-22.81	-23.55	Pass

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

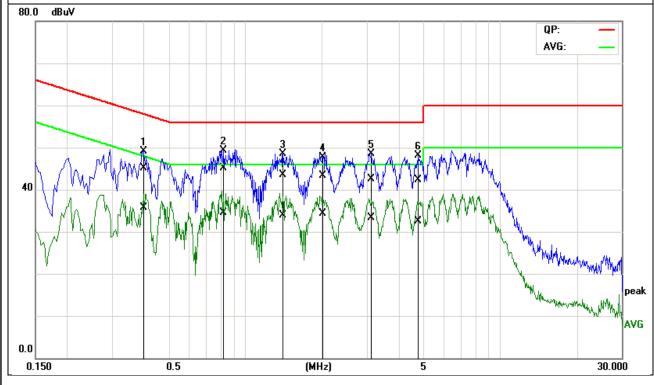


EUT:	GSM mobile phone	Model Name. :	T5
Temperature :	23 ℃	Relative Humidity:	50%
Pressure:	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Link Mode

Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
	reading	reading	factor	result	result	limit	limit	margin	margin	
(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
0.3986	25.40	15.86	19.78	45.18	35.64	57.88	47.88	-12.70	-12.24	Pass
0.8289	25.31	14.58	19.83	45.14	34.41	56.00	46.00	-10.86	-11.59	Pass
1.3883	23.61	14.07	19.88	43.49	33.95	56.00	46.00	-12.51	-12.05	Pass
2.0036	23.33	14.25	19.97	43.30	34.22	56.00	46.00	-12.70	-11.78	Pass
3.0881	22.50	13.13	20.09	42.59	33.22	56.00	46.00	-13.41	-12.78	Pass
4.7978	21.94	12.23	20.28	42.22	32.51	56.00	46.00	-13.78	-13.49	Pass

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBu	V/m) (at 3M)	Class B (dBuV/m) (at 3M)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook 1 MHz / 10Hz for Average		
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

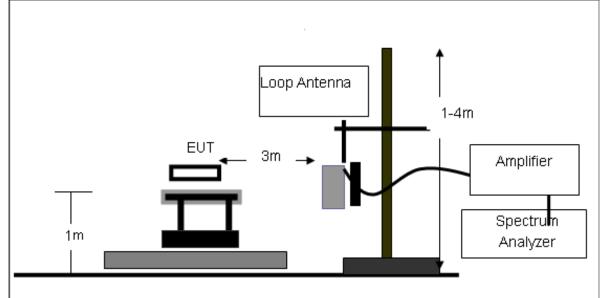
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

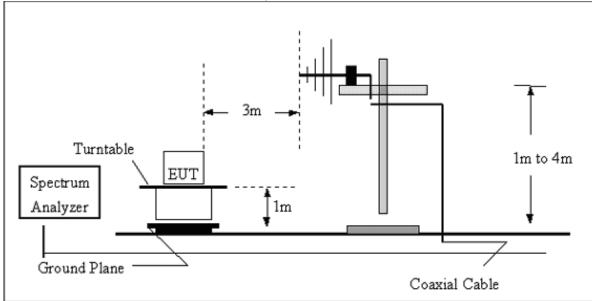
No deviation

3.2.4 TEST SETUP

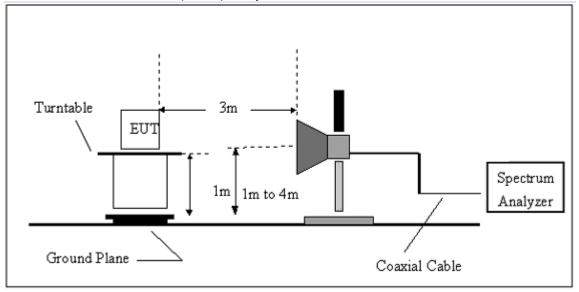
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT:	GSM mobile phone	Model Name. :	T5
Temperature :	23 ℃	Relative Humidity:	50%
Pressure:	1010 hPa	Polarization :	
Test Voltage :	AC 120V		
Test Mode :	TX Mode		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB); Limit line = specific limits(dBuv) + distance extrapolation factor.

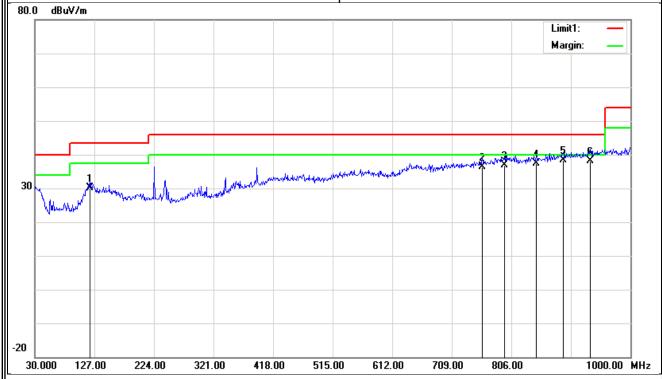
3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	GSM mobile phone	Model Name. :	T5
Temperature:	23 ℃	Relative Humidity:	50%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	AC 120V		
Test Mode:	TX Mode		

Frequency	Reading	Correct	Result	Limit	Margin	Height
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)
(MHz) 120.2100	15.99	14.02	30.01	43.50	-13.49	200
758.4700	13.67	22.83	36.50	46.00	-9.50	100
795.3300	13.49	23.38	36.87	46.00	-9.13	100
846.7400	13.98	23.31	37.29	46.00	-8.71	100
890.3900	14.30	24.08	38.38	46.00	-7.62	200
934.0400	13.32	24.83	38.15	46.00	-7.85	200

Remark:

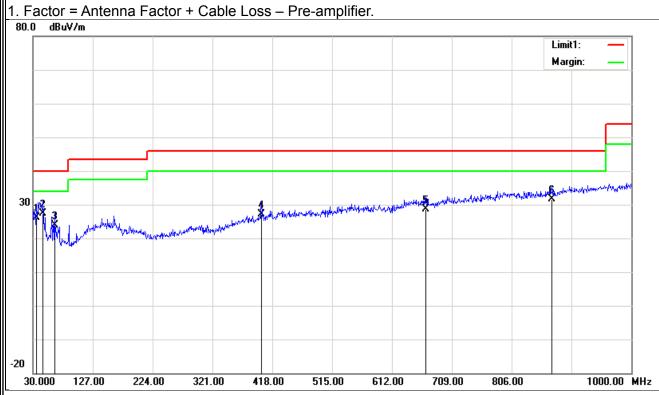
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT:	CCM mobile phone	Model Name. :	TE
E01 ·	GSM mobile phone	Model Name.	T5
Temperature:	23 ℃	Relative Humidity:	50%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V		
Test Mode :	TX Mode		

Frequency (MHz) 64.9200 767.2000 799.2100 864.2000 929.1900 946.6500	Reading	Correct	Result	Limit	Margin	Height
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)
64.9200	24.83	8.63	33.46	40.00	-6.54	200
767.2000	13.20	22.88	36.08	46.00	-9.92	100
799.2100	14.21	23.50	37.71	46.00	-8.29	100
864.2000	14.05	23.49	37.54	46.00	-8.46	100
929.1900	15.01	24.67	39.68	46.00	-6.32	100
946.6500	16.04	25.17	41.21	46.00	-4.79	100

Remark:



3.2.8 TEST RESU LTS (ABOVE 1000 MHZ)

Radiated Spurious Emission (Transmitting)

30MHz~25GHz:(Scan with GFSK, π /4-DQPSK,8DPSK,the worst casw is GFSK Mode Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Emission Level = Meter Reading + Factor

Margin = Limit - Emission Level

3.2.8 TEST RESULTS (ABOVE 1000 MHZ

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
		Lov	V Channel (2402 M	1Hz)		•	
4804.204	67.12	-3.62	63.5	74	-10.5	Pk	Vertical
4804.213	48.12	-3.62	44.5	54	-9.5	AV	Vertical
7206.179	63.13	-0.9	62.23	74	-11.77	pk	Vertical
7206.161	42.45	-0.9	41.55	54	-12.45	AV	Vertical
4804.009	63.13	-3.64	59.49	74	-14.51	Pk	Horizontal
4803.993	45.22	-3.64	41.58	54	-12.42	AV	Horizontal
		Mic	l Channel (2441 M	lHz)			
4882.070	66.12	-3.65	62.47	74	-11.53	Pk	Vertical
4882.094	50.14	-3.65	46.49	54	-7.51	AV	Vertical
7323.228	62.12	-0.82	61.3	74	-12.7	Pk	Vertical
7323.184	45.21	-0.82	44.39	54	-9.61	AV	Vertical
4882.117	62.42	-3.68	58.74	74	-15.26	Pk	Horizontal
4882.152	46.12	-3.68	42.44	54	-11.56	AV	Horizontal
		Higl	n Channel (2480 N	⁄IHz)			
4960.260	62.22	-3.59	58.63	74	-15.37	pk	Vertical
4960.307	46.41	-3.59	42.82	54	-11.18	AV	Vertical
4960.169	64.23	-3.59	60.64	74	-13.36	pk	Horizontal
4960.183	45.52	-3.59	41.93	54	-12.07	AV	Horizontal

Radiated band edge

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
GFSK								
2399.9	69.32	-12.99	56.33	74	-17.67	peak	Vertical	
2399.9	70.12	-12.99	57.13	74	-16.87	peak	Horizontal	
2483.6	71.21	-12.78	58.43	74	-15.57	peak	Vertical	
2483.6	71.23	-12.78	58.52	74	-15.48	peak	Horizontal	
			π/4-DQPS	K				
2399.9	71.12	-12.99	58.13	74	-15.87	peak	Vertical	
2399.9	70.21	-12.99	57.22	74	-16.78	peak	Horizontal	
2483.6	71.13	-12.78	58.35	74	-15.65	peak	Vertical	
2483.6	71.65	-12.78	58.87	74	-15.13	peak	Horizontal	
			8DPSK					
2399.9	71.23	-12.99	58.24	74	-15.76	peak	Vertical	
2399.9	70.43	-12.99	57.44	74	-16.56	peak	Horizontal	
2483.6	71.32	-12.78	58.54	74	-15.46	peak	Vertical	
2483.6	71.14	-12.78	58.36	74	-15.64	peak	Horizontal	

NOTE: The result(PK) less than AV limite,No need shown AV result.

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment		
	GFSK								
2390	65.43	-12.99	52.44	74	-21.56	peak	Vertical		
2390	65.32	-12.99	52.33	74	-21.67	peak	Horizontal		
2483.5	66.23	-12.78	53.45	74	-20.55	peak	Vertical		
2483.5	65.31	-12.78	52.53	74	-21.47	peak	Horizontal		
			π/4-DQPSK						
2390	65.22	-12.99	52.23	74	-21.77	peak	Vertical		
2390	67.31	-12.99	54.32	74	-19.68	peak	Horizontal		
2483.5	65.23	-12.78	52.45	74	-21.55	peak	Vertical		
2483.5	65.24	-12.78	52.46	74	-21.54	peak	Horizontal		
			8DPSK						
2390	64.34	-12.99	51.35	74	-22.65	peak	Vertical		
2390	65.22	-12.99	52.23	74	-21.77	peak	Horizontal		
2483.5	67.23	-12.78	54.45	74	-19.55	peak	Vertical		
2483.5	66.54	-12.78	53.76	74	-20.24	peak	Horizontal		

4. Conducted Spurious Emissions

4.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

4.1.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start Frequency	30 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

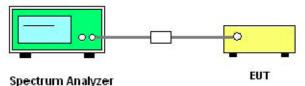
For Band edge

Spectrum Parameter	Setting
Attenuation	Auto
Start/Stop Frequency	Lower Band Edge: 2310 – 2404 MHz
	Upper Band Edge: 2478 – 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

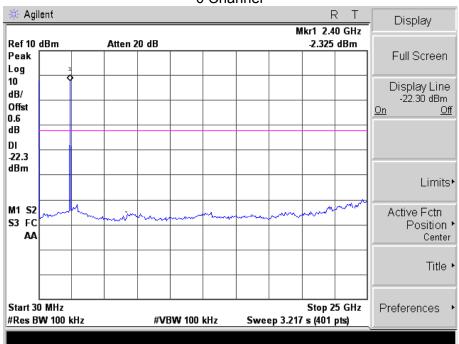
4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

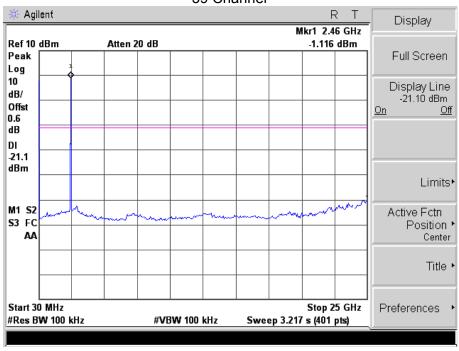
4.1.5 TEST RESULTS

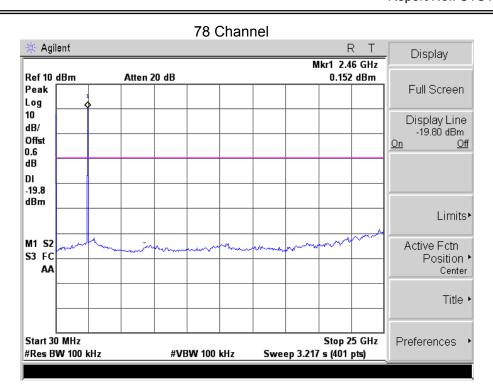
EUT:	GSM mobile phone	Model Name :	T5
Temperature:	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)-00/39/78 CH		

0 Channel

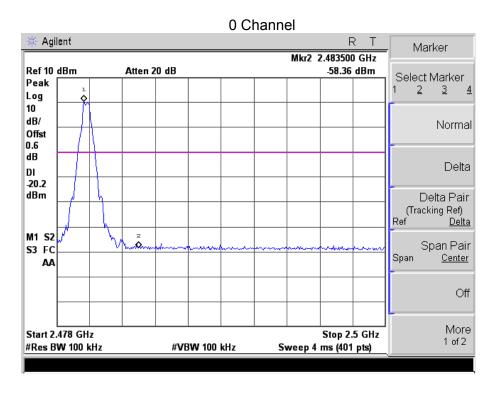


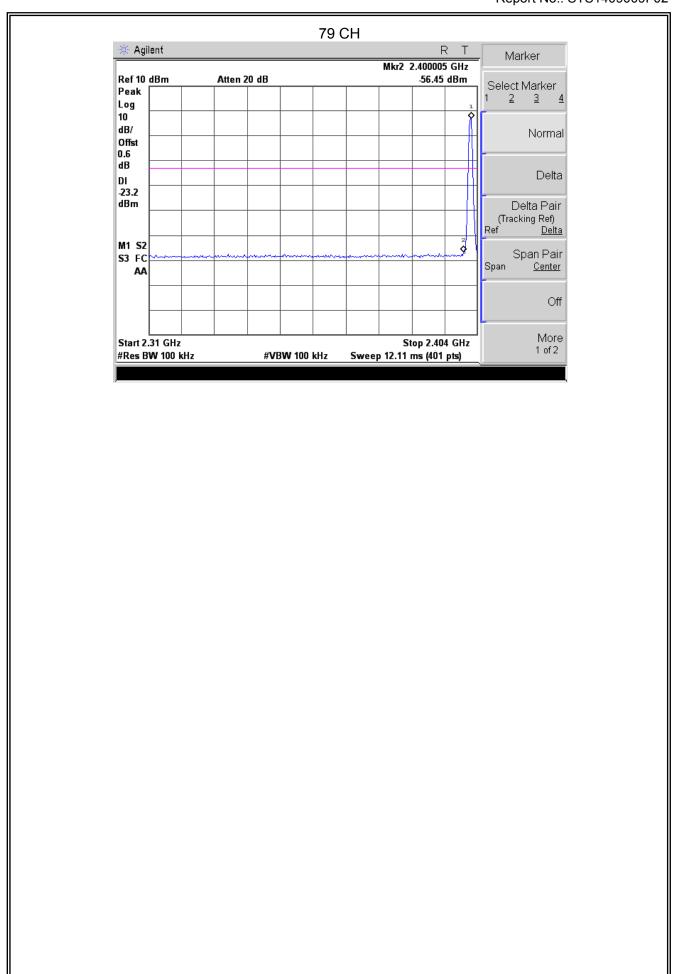




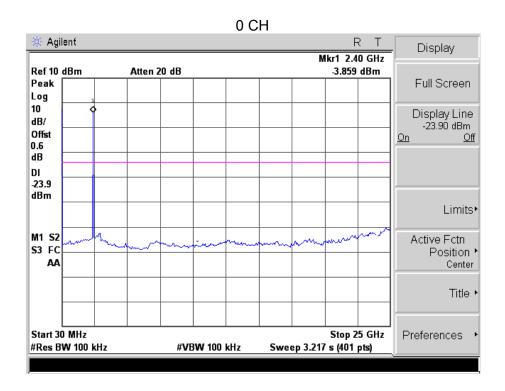


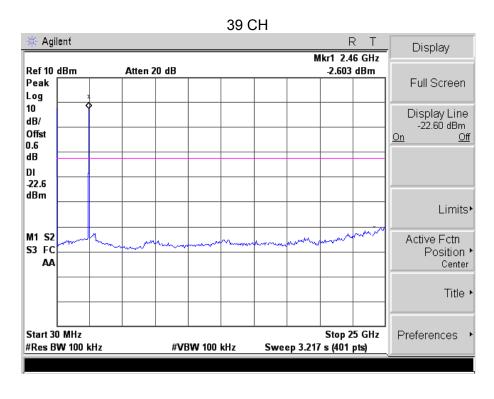
For Band edge

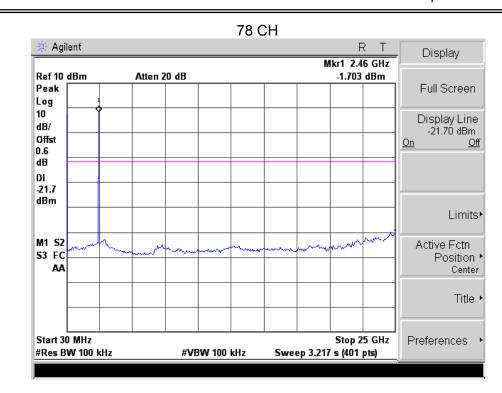




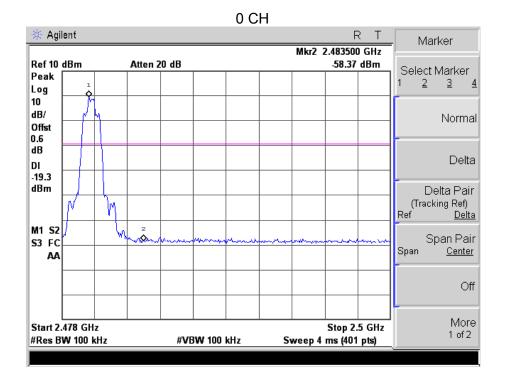
EUT:	GSM mobile phone	Model Name :	T5	
Temperature :	25 ℃	Relative Humidity:	50%	
Pressure :	1012 hPa Test Voltage : DC 3.7V			
Test Mode : π/4-DQPSK(2Mbps) –00/39/78 CH				

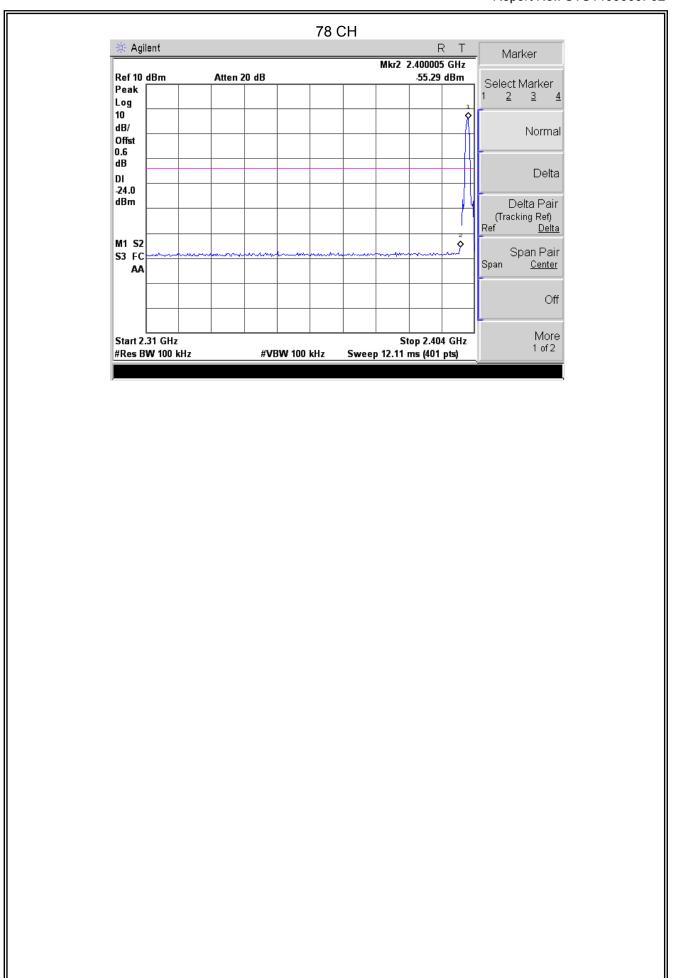




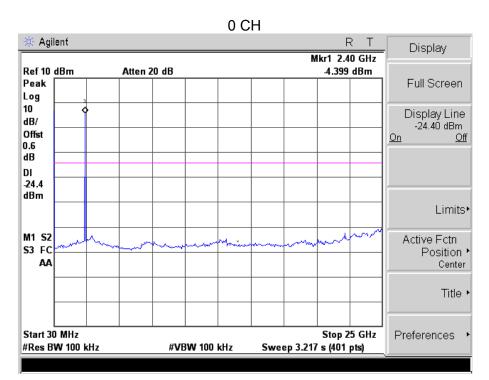


Band edge

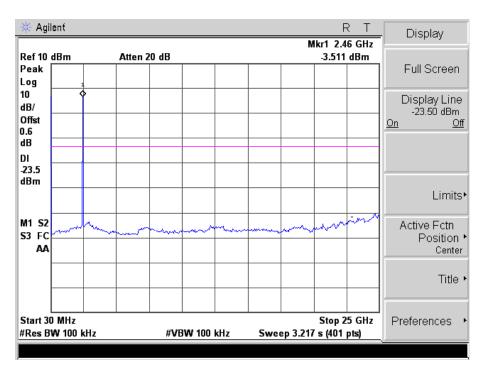


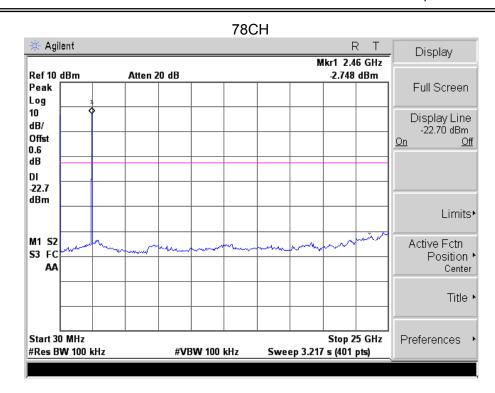


EUT:	GSM mobile phone	Model Name :	T5
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode : 8-DPSK(3Mbps) -00/39/78 CH			

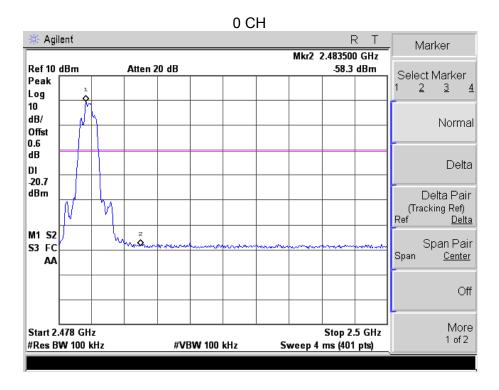


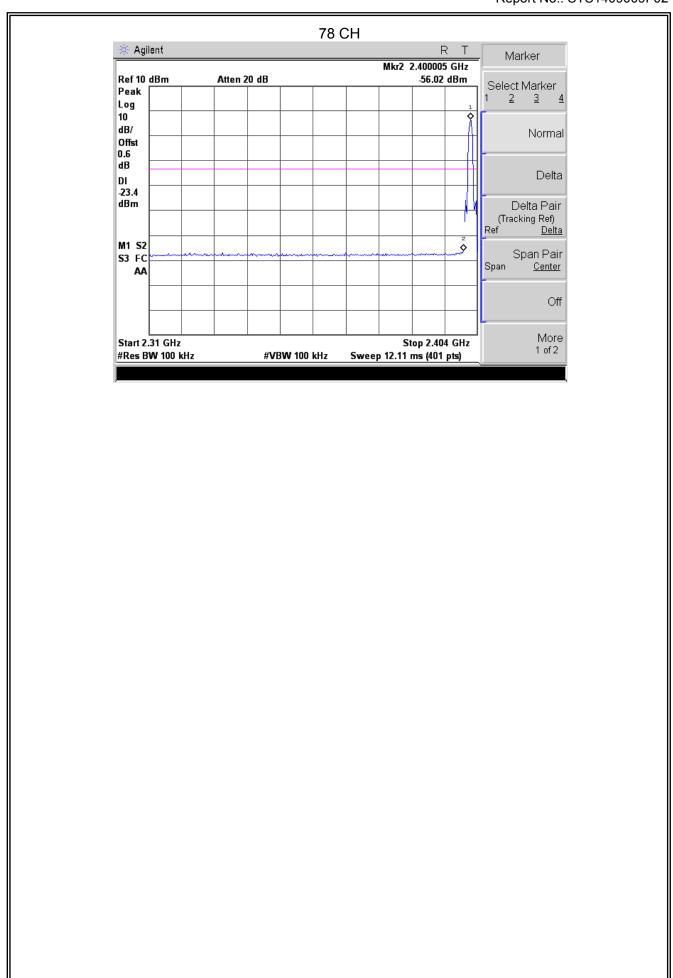
39CH





For Band edge





5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

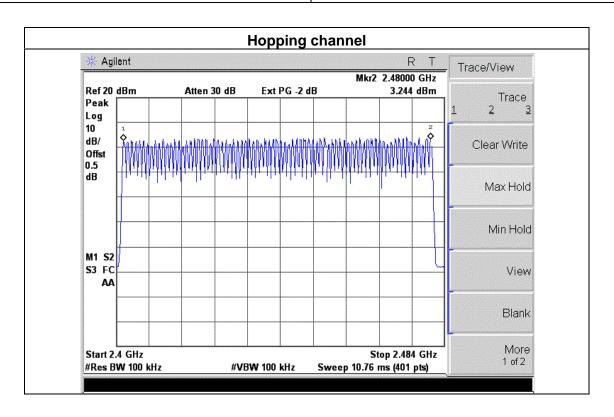
EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

EUT:	GSM mobile phone	Model Name :	T5
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		

N 1 (11 ' 01 1	70
Number of Hopping Channel	/9



6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

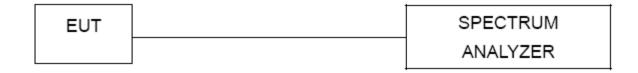
6.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- q. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

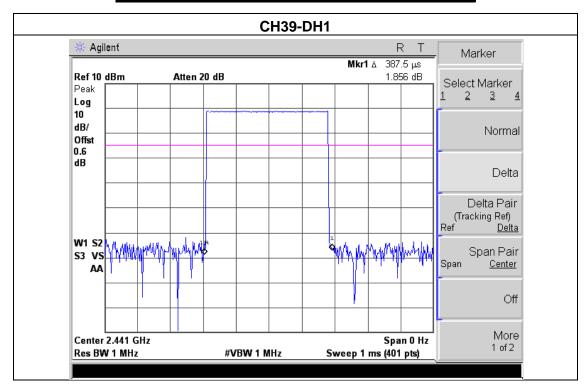


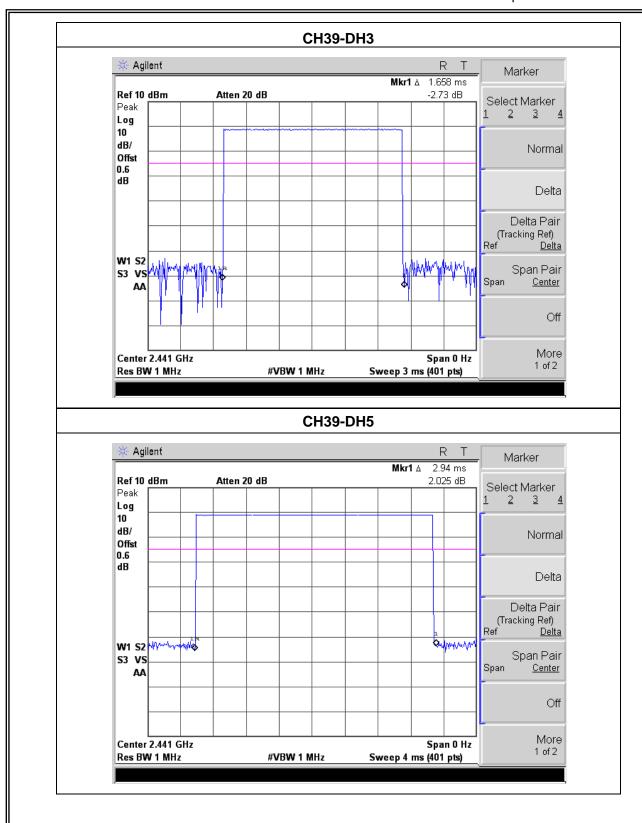
6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

EUT:	GSM mobile phone	Model Name :	T5
Temperature:	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	GFSK(1Mbps)-DH1/DH3/DH5		

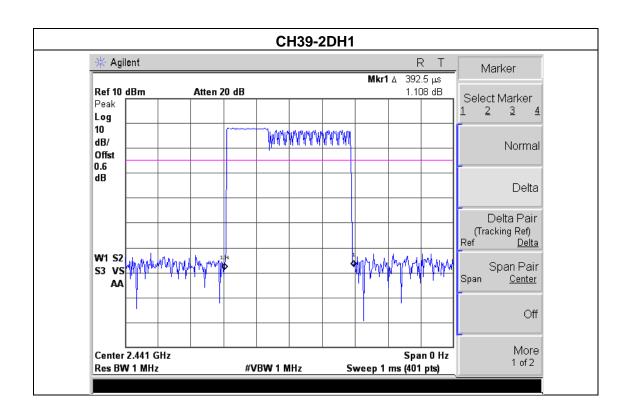
Data Packet	Frequen cy	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.387	0.12	0.4
DH3	2441 MHz	1.658	0.27	0.4
DH5	2441 MHz	2.940	0.31	0.4

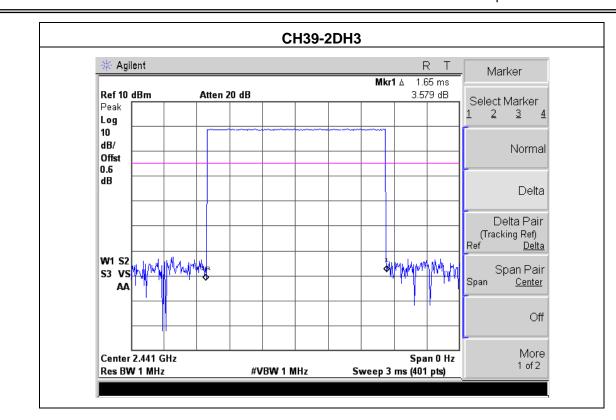


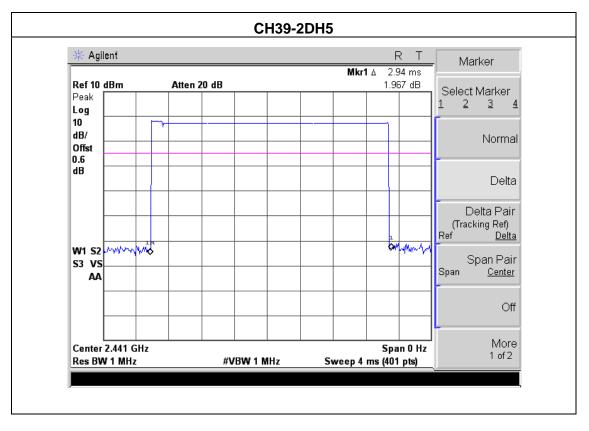


EUT:	GSM mobile phone	Model Name :	T5	
Temperature :	25 ℃	Relative Humidity:	50%	
Pressure:	012 hPa Test Voltage : DC 3.7V			
Test Mode :	π/4-DQPSK(2Mbps) –2DH1/2DH3/2DH5			

Data Packet	Frequen cy	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
2DH1	2441 MHz	0.392	0.13	0.4
2DH3	2441 MHz	1.660	0.27	0.4
2DH5	2441 MHz	2.940	0.31	0.4

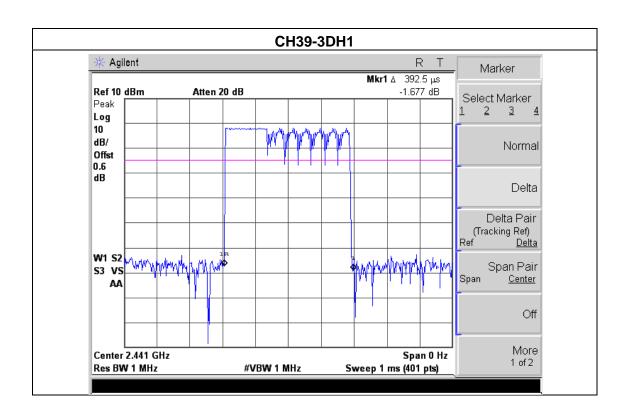


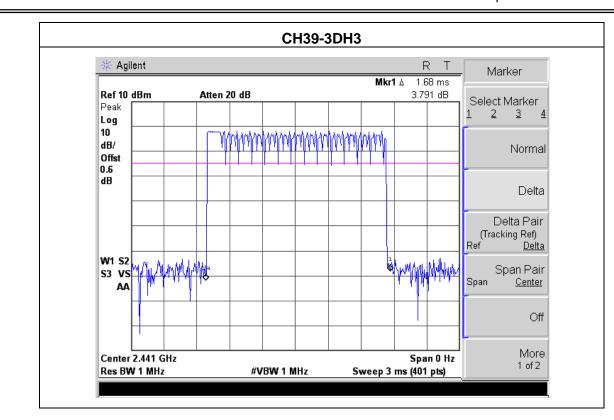


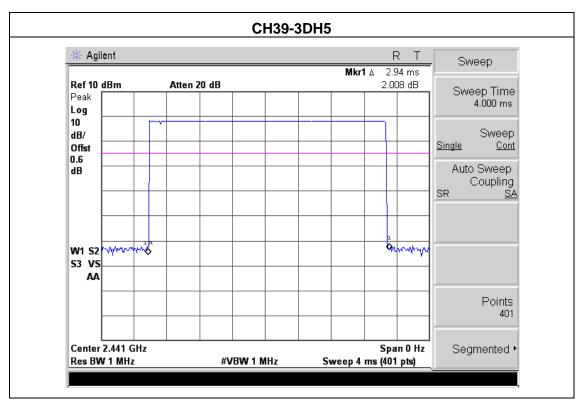


EUT:	GSM mobile phone	Model Name :	T5
Temperature:	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	8DPSK(2Mbps) -3DH1/3DH3/3DH5		

Data Packet	Frequen cy	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
3DH1	2441 MHz	0.392	0.13	0.4
3DH3	2441 MHz	1.680	0.27	0.4
3DH5	2441 MHz	2.940	0.31	0.4







7. HOPPING CHANNEL SEPARATION MEASUREMEN

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

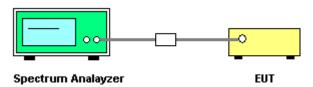
7.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

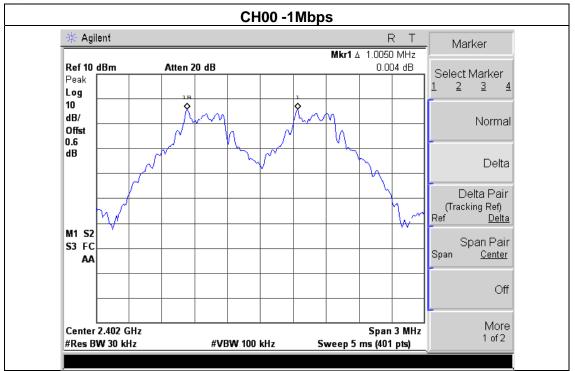
The EUT was programmed to be in continuously transmitting mode.

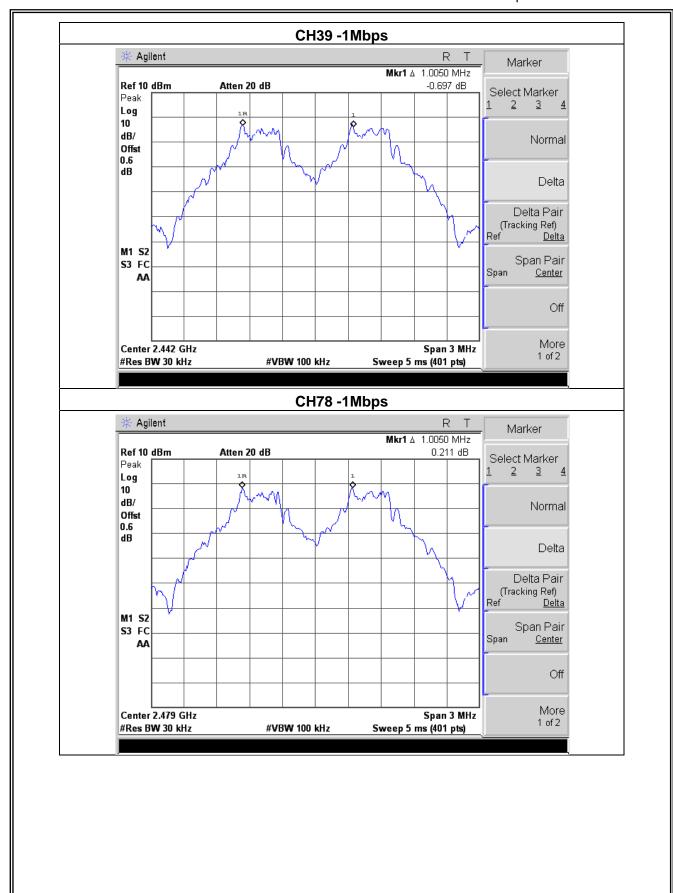
EUT:	GSM mobile phone	Model Name :	T5	
Temperature :	25 ℃	Relative Humidity:	50%	
Pressure :	1012 hPa Test Voltage : DC 3.7V			
Test Mode :	CH00 / CH39 /CH78 (GFSK(1Mbps) Mode)			

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.005	Complies
2441 MHz	1.005	Complies
2480 MHz	1.005	Complies

For GFSK:

Ch. Separation Limits: > 20dB bandwidth



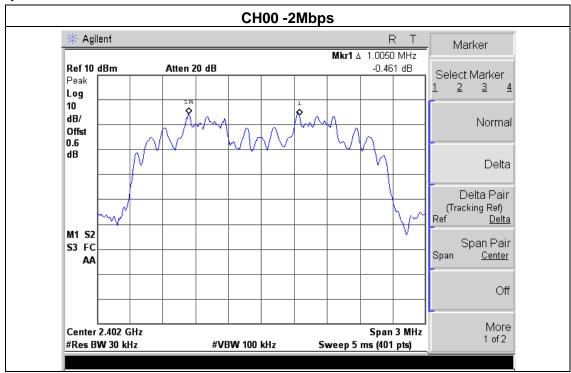


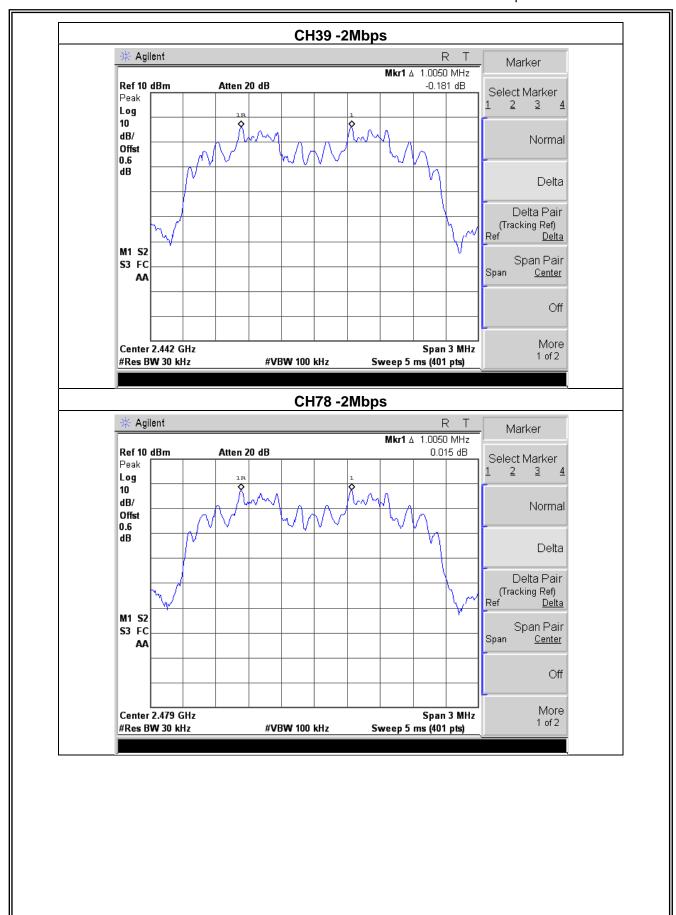
EUT:	GSM mobile phone	Model Name :	T5
Temperature :	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (π/4-DQPSK(2Mbps) Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.005	Complies
2441 MHz	1.005	Complies
2480 MHz	1.005	Complies

For $\pi/4$ -DQPSK(2Mbps):

Ch. Separation Limits: > two-thirds 20dB bandwidth



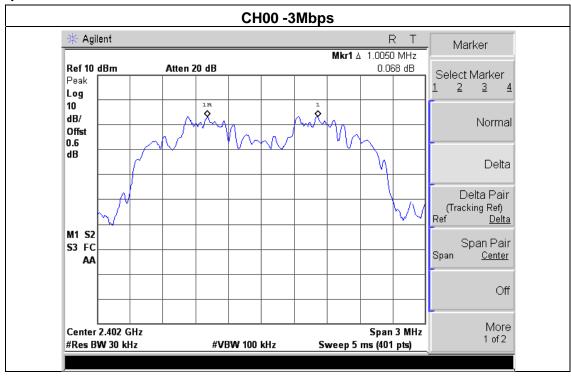


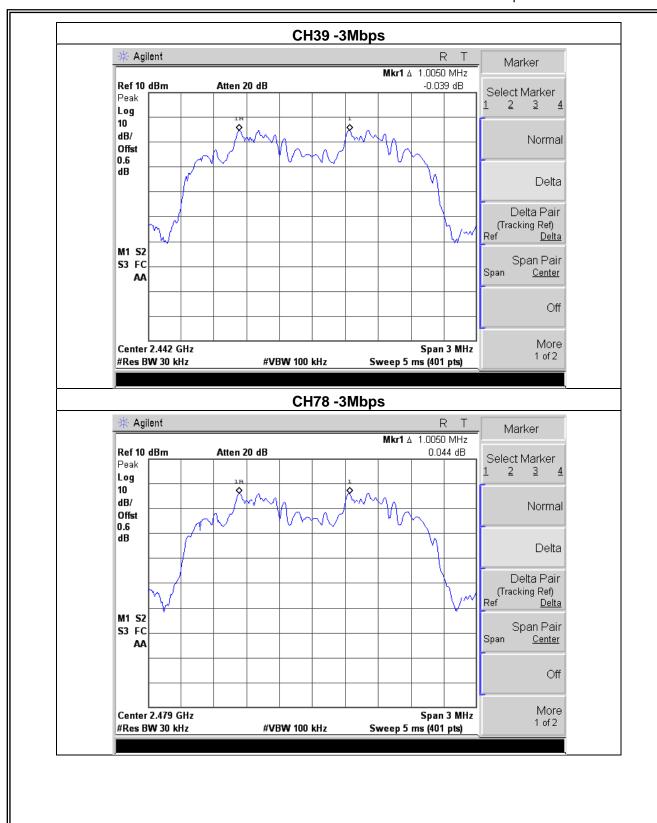
EUT:	GSM mobile phone	Model Name :	T5	
Temperature :	25 ℃	Relative Humidity:	50%	
Pressure :	1012 hPa Test Voltage : DC 3.7V			
Test Mode :	CH00 / CH39 /CH78 (8-DPSK(3Mbps)Mode)			

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.005	Complies
2441 MHz	1.005	Complies
2480 MHz	1.005	Complies

For 8-DPSK(3Mbps):

Ch. Separation Limits: > two-thirds 20dB bandwidth





8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result			Result	
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	> Measurement Bandwidth or Channel Separation		
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)		
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)		
Detector	Peak		
Trace	Max Hold		
Sweep Time	Auto		

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

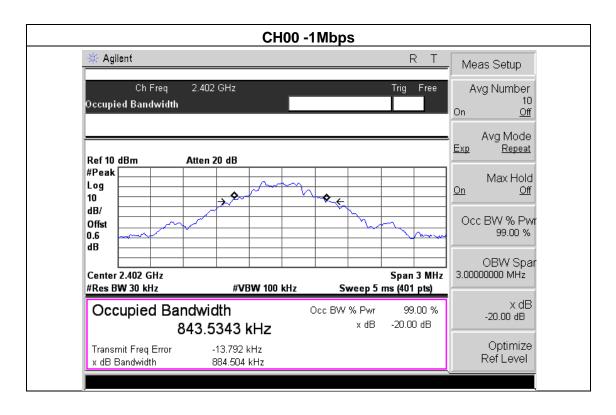


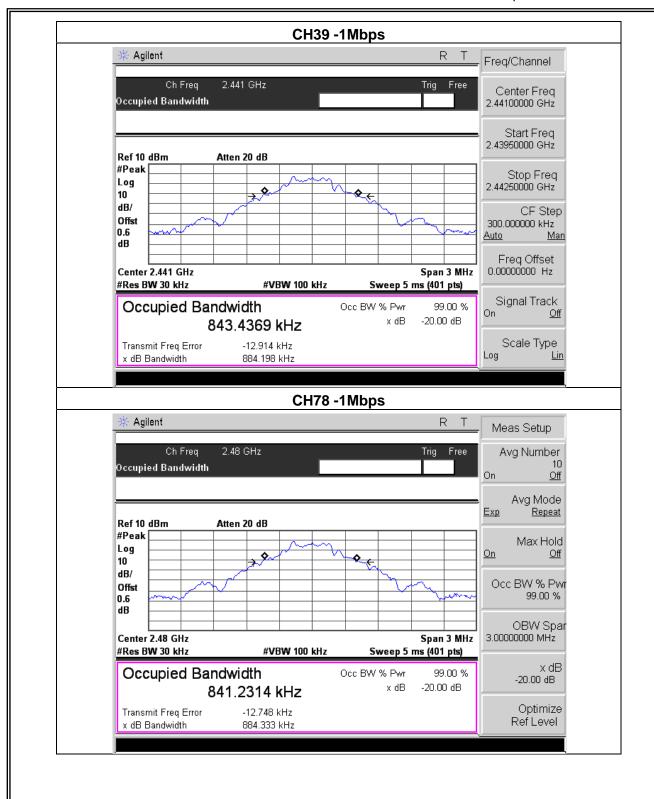
8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

EUT:	GSM mobile phone	Model Name :	T5	
Temperature:	25 ℃	Relative Humidity:	50%	
Pressure:	012 hPa Test Voltage : DC 3.7V			
Test Mode :	GFSK(1Mbps)CH00 / CH39 /C78			

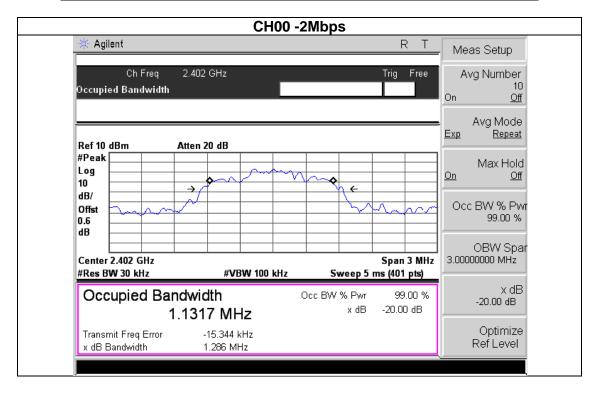
Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	884.504	PASS
2441 MHz	884.198	PASS
2480 MHz	884.333	PASS

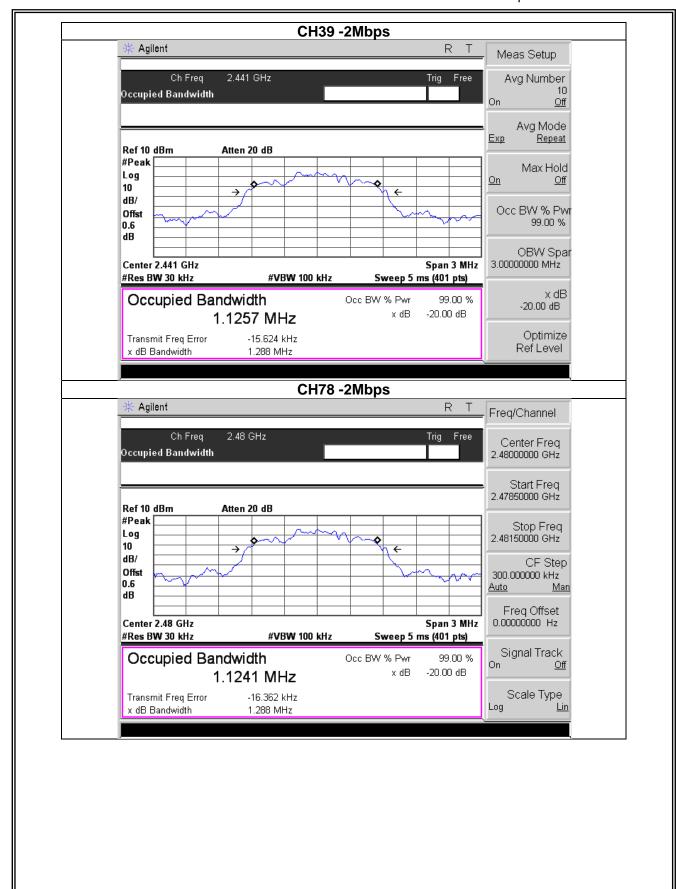




EUT:	GSM mobile phone	Model Name:	T5
Temperature:	25 ℃	Relative Humidity:	50%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	π/4-DQPSK(2Mbps)CH00 / CH39 /C78		

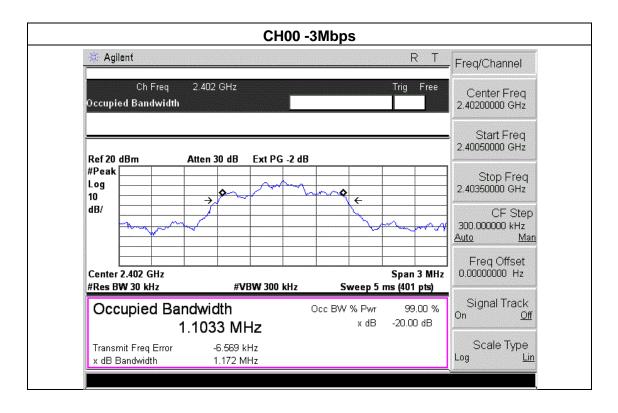
Frequency	20dB Bandwidth(kHz)	Result
2402 MHz	1.293	PASS
2441 MHz	1.294	PASS
2480 MHz	1.294	PASS

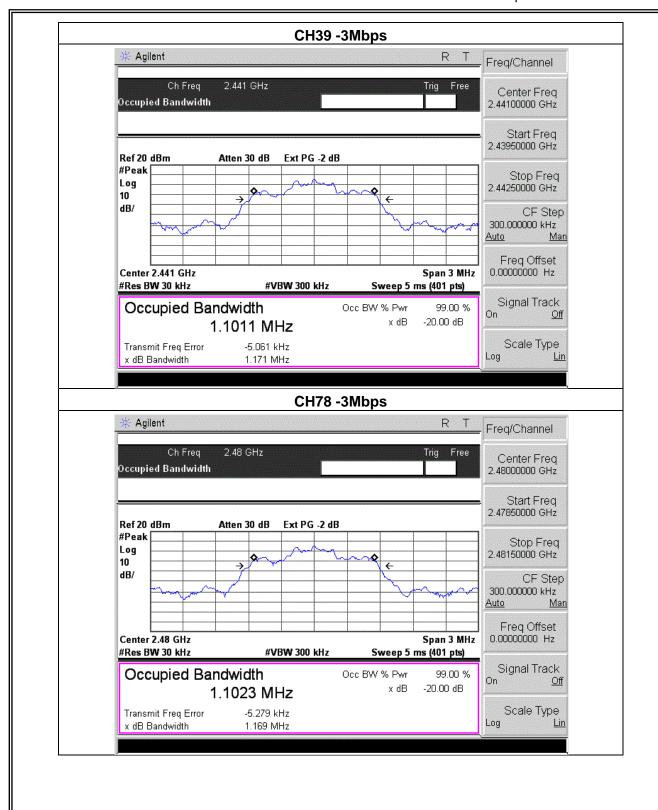




EUT:	GSM mobile phone	Model Name :	T5
Temperature:	25 ℃	Relative Humidity:	50%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	8-DPSK(3Mbps)CH00 / CH39 /C78		

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	1.172	PASS
2441 MHz	1.171	PASS
2480 MHz	1.169	PASS





9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Peak	1 W or 30dBm		
(b)(i)	Output Power	Or if channel separation > 2/3 bandwidthprovided the systems operatewith an output power no greater than125 mW(20.96dBm)	2400-2483.5	PASS

9.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP



9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

EUT:	GSM mobile phone	Model Name :	T5
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 GFSK(1Mbps)		

Test Channel	Frequency	Peak Output Power	LIMIT
	(MHz)	(dBm)	(dBm)
CH00	2402	1.34	30
CH39	2441	0.76	30
CH78	2480	0.45	30

EUT:	GSM mobile phone	Model Name :	T5
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 π/4-DQPSK(2Mbps)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	1.32	20.96
CH39	2441	-0.24	20.96
CH78	2480	-0.23	20.96

Note: the channel separation >2/3 bandwidth

EUT:	GSM mobile phone	Model Name:	T5
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00/ CH39 /CH78 8-DPSK(3Mbps)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	1.14	20.96
CH39	2441	-0.83	20.96
CH78	2480	-0.96	20.96

NOTE: THE CHANNEL SEPARATION >2/3 BANDWIDTH

10. ANTENNA REQUIREMENT
10.1 STANDARD REQUIREMENT
15.203 requirement: For intentional device, according to 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.
10.2 EUT ANTENNA
The EUT antenna is integral Antenna. It comply with the standard requirement.

TEST SETUP

Radiated Measurement Photos



