This report concerns	(check one): ⊠Original Grant
Project No. Equipment Model Name Applicant Address	 1503C087 SHOUT Dual Mode WiFi/Bluetooth Smart Speaker IS0101 TCL Technoly Electronics(Huizhou) Co.,Ltd. Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang Dong Province, China, 516006
Date of Receipt Date of Test Issued Date Tested by	 Mar. 09, 2015 Mar. 09, 2015 ~ Apr. 27, 2015 Apr. 28, 2015 BTL Inc.
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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **CHINA**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

1. CERTIFICATION72. SUMMARY OF TEST RESULTS82.1 TEST FACILITY92.2 MEASUREMENT UNCERTAINTY93. GENERAL INFORMATION103.1 GENERAL DESCRIPTION OF EUT103.2 DESCRIPTION OF TEST MODES123.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 EST RESULTS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.2 TEST PROCEDURE184.2.3 DEVIATION TEST STANDARD204.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.1 TEST PROCEDURE225.1.1 TE	Table of Contents	Page
2.1 TEST FACILITY92.2 MEASUREMENT UNCERTAINTY93. GENERAL INFORMATION103.1 GENERAL DESCRIPTION OF EUT103.2 DESCRIPTION OF TEST MODES123.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD164.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.1.7 TEST RESULTS164.1.7 TEST RESULTS164.1.7 TEST RESULTS164.2.2 ADIATED EMISSION MEASUREMENT174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.3 LEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.1 TEST SETUP225.1.1 DEPREATION CONDITIONS </td <td>1. CERTIFICATION</td> <td>7</td>	1. CERTIFICATION	7
2.2 MEASUREMENT UNCERTAINTY93. GENERAL INFORMATION103.1 GENERAL DESCRIPTION OF EUT103.2 DESCRIPTION OF TEST MODES123.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (ABOVE 1000 MHZ)214.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.8 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.1 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST	2 . SUMMARY OF TEST RESULTS	8
3. GENERAL INFORMATION103.1 GENERAL DESCRIPTION OF EUT103.2 DESCRIPTION OF TEST MODES123.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)214.2.8 TEST RESULTS (BETWEEN 30MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.1 TEST PROCEDURES225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.3 EUT PROCEDURE225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS <td>2.1 TEST FACILITY</td> <td>9</td>	2.1 TEST FACILITY	9
3.1 GENERAL DESCRIPTION OF EUT103.2 DESCRIPTION OF TEST MODES123.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)214.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 AUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.3 DEVIATION FROM STANDARD225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS22	2.2 MEASUREMENT UNCERTAINTY	9
3.2 DESCRIPTION OF TEST MODES123.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)214.2.8 TEST RESULTS (BETWEEN 30MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 AUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURE225.1.3 DEVIATION FROM STANDARD225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EU	3 . GENERAL INFORMATION	10
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING123.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	3.1 GENERAL DESCRIPTION OF EUT	10
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED133.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ)214.2.9 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS22	3.2 DESCRIPTION OF TEST MODES	12
3.5 DESCRIPTION OF SUPPORT UNITS144. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION MEASUREMENT174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURE225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
4. EMC EMISSION TEST154.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.7 TEST RESULTS164.1.7 TEST RESULTS164.2.2 RADIATED EMISSION MEASUREMENT174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TES	STED 13
4.1 CONDUCTED EMISSION MEASUREMENT154.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION MEASUREMENT174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (BETWEEN 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ)215. NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	3.5 DESCRIPTION OF SUPPORT UNITS	14
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS154.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION MEASUREMENT174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.3 TEST SETUP225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	4. EMC EMISSION TEST	15
4.1.2 TEST PROCEDURE154.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	4.1 CONDUCTED EMISSION MEASUREMENT	15
4.1.3 DEVIATION FROM TEST STANDARD154.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS22		
4.1.4 TEST SETUP164.1.5 EUT OPERATING CONDITIONS164.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.7 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (9KHZ TO 30MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.1.6 EUT TEST CONDITIONS164.1.7 TEST RESULTS164.2.1 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.1.7 TEST RESULTS164.2 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.2 RADIATED EMISSION MEASUREMENT174.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.2.1 RADIATED EMISSION LIMITS174.2.2 TEST PROCEDURE184.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215.1 NUMBER OF HOPPING CHANNEL225.1.1 TEST PROCEDURES225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS22		
4.2.3 DEVIATION FROM TEST STANDARD184.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS225.1.5 EUT TEST CONDITIONS22		
4.2.4 TEST SETUP194.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.2.5 EUT OPERATING CONDITIONS204.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.2.6 EUT TEST CONDITIONS204.2.7 TEST RESULTS (9KHZ TO 30MHZ)204.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		-
4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ)214.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		
4.2.9 TEST RESULTS (ABOVE 1000 MHZ)215. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22	l l	-
5. NUMBER OF HOPPING CHANNEL225.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		
5.1 APPLIED PROCEDURES225.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		
5.1.1 TEST PROCEDURE225.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		
5.1.2 DEVIATION FROM STANDARD225.1.3 TEST SETUP225.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		
5.1.4 EUT OPERATION CONDITIONS225.1.5 EUT TEST CONDITIONS22		
5.1.5 EUT TEST CONDITIONS 22		

зīг

Table of Contents	Page
6 . AVERAGE TIME OF OCCUPANCY	23
6.1 APPLIED PROCEDURES / LIMIT	23
6.1.1 TEST PROCEDURE	23
6.1.2 DEVIATION FROM STANDARD	23
6.1.3 TEST SETUP	23
6.1.4 EUT OPERATION CONDITIONS	24
6.1.5 EUT TEST CONDITIONS 6.1.6 TEST RESULTS	24 24
7. HOPPING CHANNEL SEPARATION MEASUREMENT	24 25
7.1 APPLIED PROCEDURES / LIMIT 7.1.1 TEST PROCEDURE	25 25
7.1.2 DEVIATION FROM STANDARD	25
7.1.3 TEST SETUP	25
7.1.4 EUT TEST CONDITIONS	25
7.1.5 TEST RESULTS	25
8 . BANDWIDTH TEST	26
8.1 APPLIED PROCEDURES	26
8.1.1 TEST PROCEDURE	26
8.1.2 DEVIATION FROM STANDARD	26
8.1.3 TEST SETUP	26
8.1.4 EUT OPERATION CONDITIONS 8.1.5 EUT TEST CONDITIONS	26 26
8.1.6 TEST RESULTS	26
9 . PEAK OUTPUT POWER TEST	27
9.1 APPLIED PROCEDURES / LIMIT	27
9.1.1 TEST PROCEDURE	27
9.1.2 DEVIATION FROM STANDARD	27
9.1.3 TEST SETUP	27
9.1.4 EUT OPERATION CONDITIONS	27
9.1.5 EUT TEST CONDITIONS	27
9.1.6 TEST RESULTS	27
10 . ANTENNA CONDUCTED SPURIOUS EMISSION	28
10.1 APPLIED PROCEDURES / LIMIT	28
10.1.1 TEST PROCEDURE	28
10.1.2 DEVIATION FROM STANDARD 10.1.3 TEST SETUP	28 28
10.1.4 EUT OPERATION CONDITIONS	20
10.1.5 EUT TEST CONDITIONS	28
10.1.6 TEST RESULTS	28
11 . MEASUREMENT INSTRUMENTS LIST	29

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Table of Contents	Page
12 . EUT TEST PHOTO	31
ATTACHMENT A - CONDUCTED EMISSION	35
ATTACHMENT B - RADIATED EMISSION (9KHZ-30MHZ)	38
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)	40
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)	47
ATTACHMENT E - NUMBER OF HOPPING CHANNEL	72
ATTACHMENT F - AVERAGE TIME OF OCCUPANCY	74
ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT	87
ATTACHMENT H - BANDWIDTH	92
ATTACHMENT I - PEAK OUTPUT POWER	97
ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION	102

REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1503C087	Original Issue.	Apr. 28, 2015

1. CERTIFICATION

Equipment : Brand Name :	SHOUT Dual Mode WiFi/Bluetooth Smart Speaker
Model Name :	
	TCL Technoly Electronics(Huizhou) Co.,Ltd.
	SHENZHEN RENQING TECHNOLOGY CO., LTD
Address :	Room 2001, Modern International Building, Jintian Rd, Futian, Shenzhen
5	TCL Technoly Electronics(Huizhou) Co.,Ltd.
Address :	Section 37, Zhongkai High-tech Development Zone, Huizhou City, Guang
	Dong Province, China, 516006
Date of Test :	Mar. 09, 2015 ~ Apr. 27, 2015
Test Sample :	ENGINEERING SAMPLE
Standard(s) :	FCC Part15, Subpart C : 2014 (15.247) / ANSI C63.4 : 2009 /
	FCC Public Notice DA 00-705, March 30, 2000.

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1503C087) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): 47 CFR Part 15, Subpart C: 2014					
Standard(s) Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247 (a)(1)	Hopping Channel Separation	PASS			
15.247 (b)(1)	Peak Output Power	PASS			
15.247(d) 15.209	Radiated Spurious Emission	PASS			
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS			
15.247 (a)(1)(iii)	Dwell Time	PASS			
15.205	Restricted Bands	PASS			
15.203	Antenna Requirement	PASS			

Note:

- (1)" N/A" denotes test is not applicable in this test report
- (2) According to FCC Public Notice DA 00-705, March 30, 2000.

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is located at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

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 **k=2**, providing a level of confidence of approximately **95** %.

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	Note
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	Note
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CIGER	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	SHOUT Dual Mode WiFi/E	SHOUT Dual Mode WiFi/Bluetooth Smart Speaker			
Brand Name	ihave	have			
Model Name	IS0101				
Model Difference For FCC	N/A				
	Operation Frequency	2402~2480 MHz			
	Modulation Technology	GFSK(1Mbps)			
Output Power (Max.)	Bit Rate of Transmitter	π /4-DQPSK(2Mbps) 8-DPSK(3Mbps)			
	Output Power Max.	1.30 dBm(1Mbps) 0.79 dBm(3Mbps)			
Power Source	#1 DC Voltage supplied from AC adapter. Model: IU018A120150A #2 Supplied from battery				
Power Rating	#1 I/P: 100-240V~ 50/60Hz 0.6A O/P: DC 12V 1.5A #2 DC 7.4V 4500mAh 33.3Wh				

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			

3 Table for Filed Antenna

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Ant.	Brand	Model Name	Antenna Type	Connector	Gain (d Bi)
1	N/A	N/A	Internal	N/A	3.97

3.2 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	TX Mode Note (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Emission		
Final Test Mode	Description	
Mode 1	TX Mode	

For Radiated Emission	
Final Test Mode	Description
Mode 1	TX Mode Note (1)

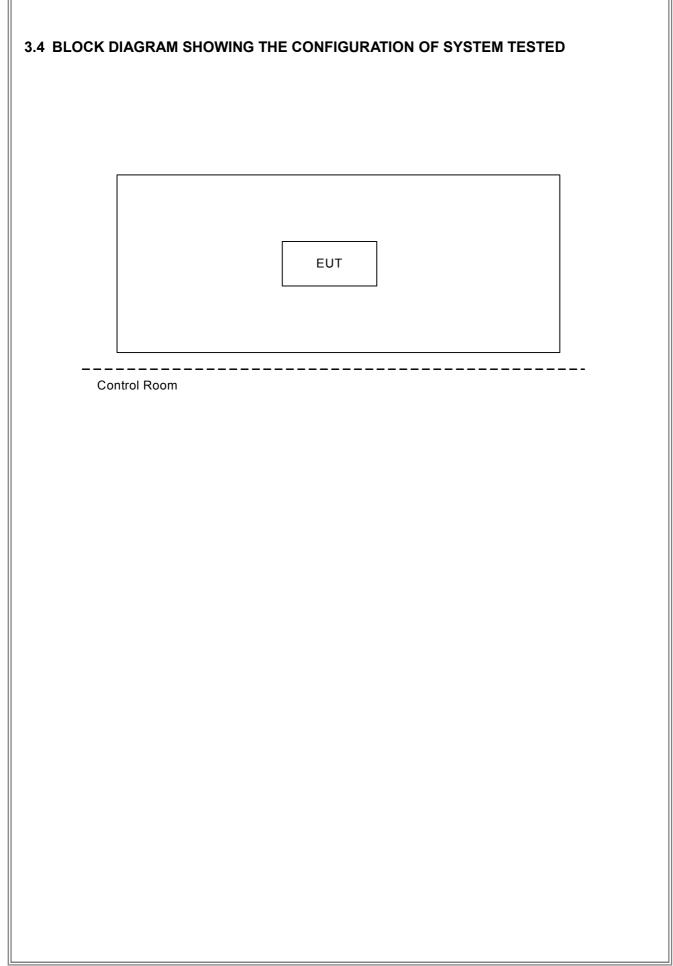
Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) The measurements for Hopping Channel Separation, Bandwidth and Peak Output Power were tested during 1Mbps, 2Mbps and 3Mbps, the worst case are 1Mbps and 3Mbps, only worst case was documented.

3.3 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	1Mb	Blue Test3	
Frequency (MHz)	2402 2441 2480		
Parameters	0	0	0
3Mbps			
Test Software Version		BlueTest3	
Frequency (MHz)	2402	2441	2480
Parameters	11	3	7



3.5 DESCRIPTION OF SUPPORT UNITS

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.	FCC ID	Series No.	Note
-	-	-	-	-	-	

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

Fraguanov of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

 (2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

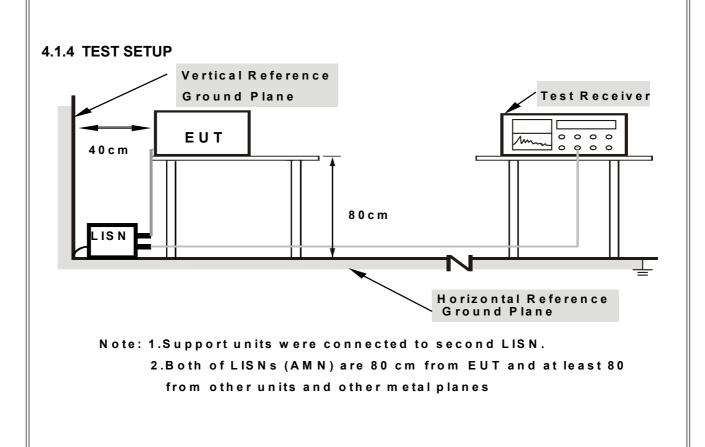
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 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.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation



4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical function (as a customer would normally use it), EUT was programmed to be in continuously transmitting/receiving data or hopping on mode.

4.1.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V

4.1.7 TEST RESULTS Please refer to the Attachment A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform in this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9KHz -1000MHz)

20dB 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.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

	dB(uV/m) (at 3 meters)	
Frequency (MHz)	Peak	Average
Above 1000	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).
- (4) The test result calculated as following:
 - Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

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

Spectrum Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz ~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz ~110KHz for QP detector
Start ~ Stop Frequency	110KHz ~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz ~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

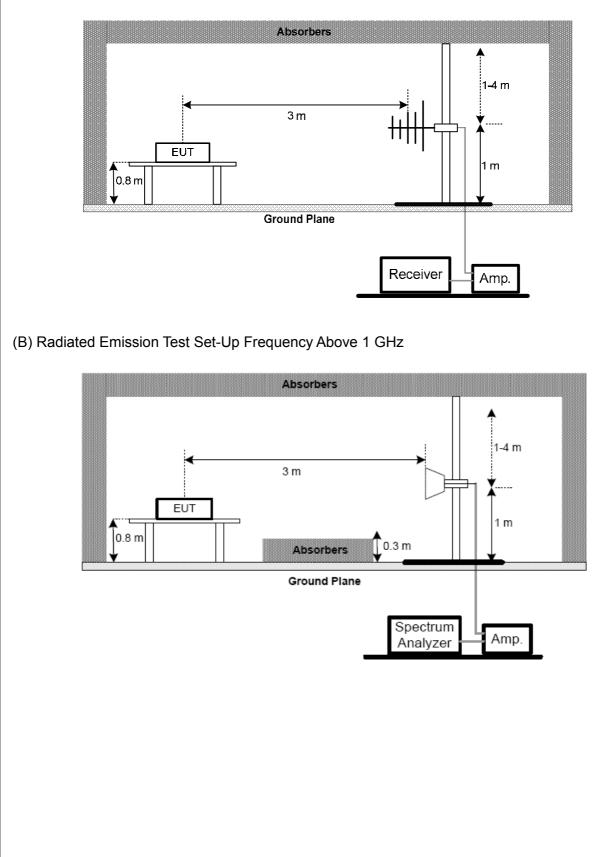
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



4.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.5** Unless otherwise a special operating condition is specified in the follows during the testing

4.2.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

4.2.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8 TEST RESULTS (BETWEEN 30MHZ TO 1000 MHZ) Please refer to the Attachment C.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.2.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment D.

Remark:

- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission
- (2) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (3) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (4) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (5) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES

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

Spectrum Parameters	Setting	
Attenuation	Auto	
Span Frequency	> Operating Frequency Range	
RBW	100 KHz	
VBW	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 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

5.1.6 TEST RESULTS

Please refer to the Attachment E

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			

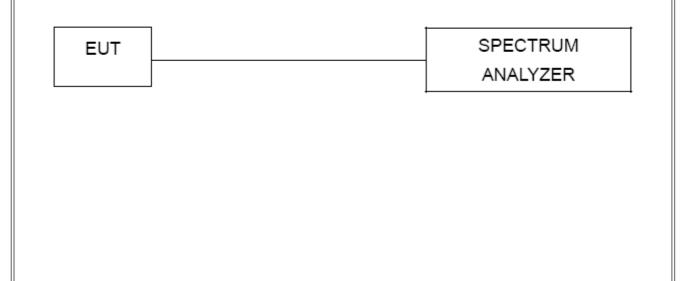
6.1.1 TEST PROCEDURE

- 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.
- $f_{\mbox{\scriptsize .}}$ Measure the maximum time duration of one single pulse.
- g. 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 TX, 1 time slot RX). 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 TX, 1 time slot RX). 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 TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 10.12 x 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 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

6.1.6 TEST RESULTS

Please refer to the Attachment F

7. HOPPING CHANNEL SEPARATION MEASUREMENT

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 25 KHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	> Measurement Bandwidth or Channel Separation		
RBW	30 KHz		
VBW	100 KHz		
Detector	Peak		
Trace	Max Hold		
Sweep Time	Auto		

7.1.1 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = Auto Detector function = Peak Trace = Max Hold

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



Spectrum Analayzer

EUT

7.1.4 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

7.1.5 TEST RESULTS

Please refer to the Attachment G

8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Frequency Range		
Section	restitem	(MHz)		
15.247(a)(2)	Bandwidth	2400-2483.5		

Spectrum Parameter	Setting				
Attenuation	Auto				
Span Frequency	> Measurement Bandwidth or Channel Separation				
RBW	30 KHz (20dB Bandwidth) / 30 KHz (Channel Separation)				
VBW	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 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

8.1.6 TEST RESULTS

Please refer to the Attachment H

9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C					
Section	Test Item	Frequency Range (MHz)	Result		
15.247(b)(1)	Peak Output Power	1 Watt or 30dBm	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/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

9.1.2 DEVIATION FROM STANDARD

No deviation.

9.1.3 TEST SETUP

	•
EUT	SPECTRUM
	ANALYZER

9.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

9.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

9.1.6 TEST RESULTS

Please refer to the Attachment I

10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

10.1.1 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.

10.1.2 DEVIATION FROM STANDARD

No deviation.

10.1.3 TEST SETUP



10.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 Unless otherwise a special operating condition is specified in the follows during the testing.

10.1.5 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: DC 7.4V

10.1.6 TEST RESULTS

Please refer to the Attachment J

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	LISN	EMCO	3816/2	00052765	Mar. 28, 2016		
2	LISN	R&S	ENV216	101447	Mar. 28, 2016		
3	Test Cable	N/A	C_17	N/A	Mar.13, 2016		
4	EMI TEST RECEIVER	R&S	ESCS30	833364/017	Mar. 28, 2016		
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Mar. 28, 2016		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A		

11. MEASUREMENT INSTRUMENTS LIST

	Radiated Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 28, 2016		
2	Amplifier	HP	8447D	2944A09673	Nov. 17, 2015		
3	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015		
4	Test Cable	N/A	C-01_CB03	N/A	Jul. 01, 2015		
5	Controller	СТ	SC100	N/A	N/A		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-0 1	N/A	N/A		
7	Antenna	ETS	3115	00075789	Mar. 28, 2016		
8	Amplifier	Agilent	8449B	3008A02274	Nov. 02, 2015		
9	Receiver	AGILENT	N9038A	MY52130039	Sep. 30, 2015		
10	Test Cable	HUBER+SUHNER	C-48	N/A	Apr. 30, 2015		
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Mar. 28, 2016		
12	Active Loop Antenna	R&S	HFH2-Z2	830749/020	Aug. 16, 2015		

Number of Hopping Channel					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Average Time of Occupancy

lt	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Hopping Channel Separation Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Bandwidth						
Iter	n Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015	

	Peak Output Power					
1	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Antenna Conducted Spurious Emission					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 02, 2015

Remark: "N/A" denotes no model name, serial no. or calibration specified. All calibration period of equipment list is one year.

12. EUT TEST PHOTO

Conducted Measurement Photos





Radiated Measurement Photos

9KHz to 30MHz





Report No.: BTL-FCCP-2-1503C087

Radiated Measurement Photos

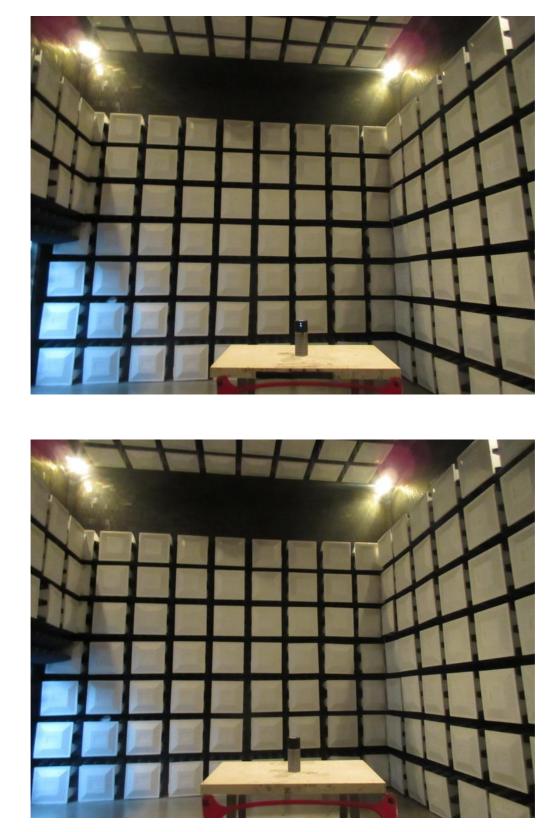
30MHz to 1000MHz





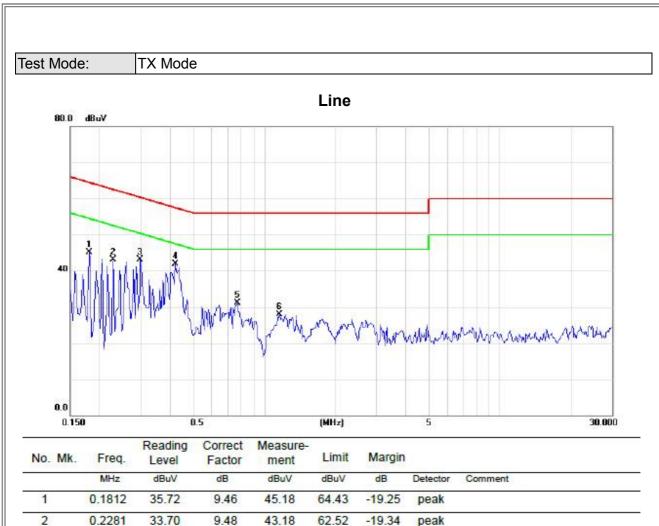
Radiated Measurement Photos

Above 1000MHz



ATTACHMENT A - CONDUCTED EMISSION

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0.2983

0.4195

0.7672

1.1656

33.60

32.36

21.57

18.31

9.51

9.57

9.52

9.56

43.11

41.93

31.09

27.87

60.29

57.46

56.00

56.00

-17.18

-15.53

-24.91

-28.13

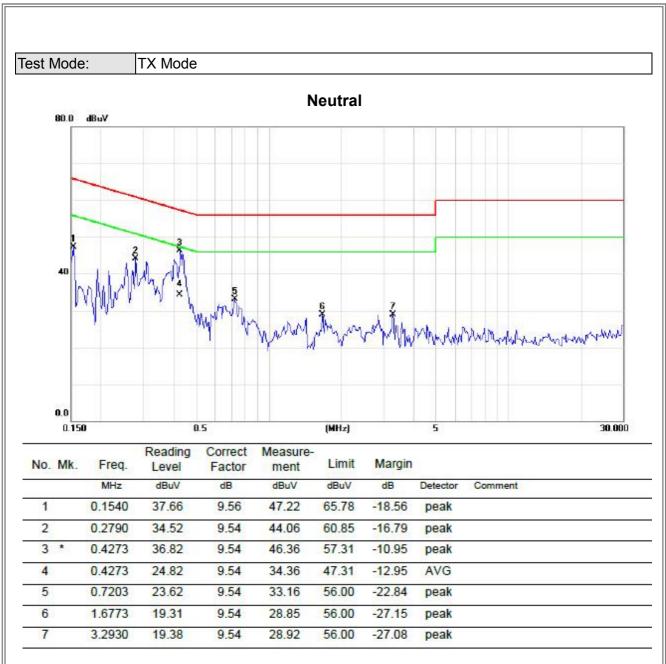
peak

peak

peak

peak

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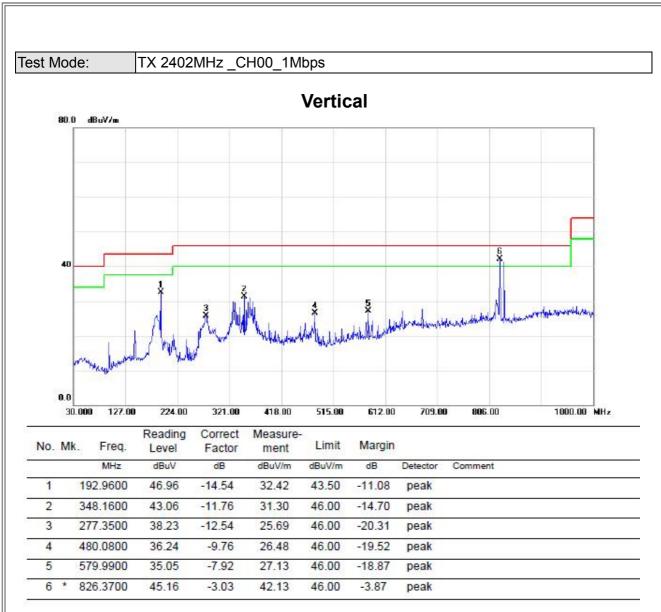


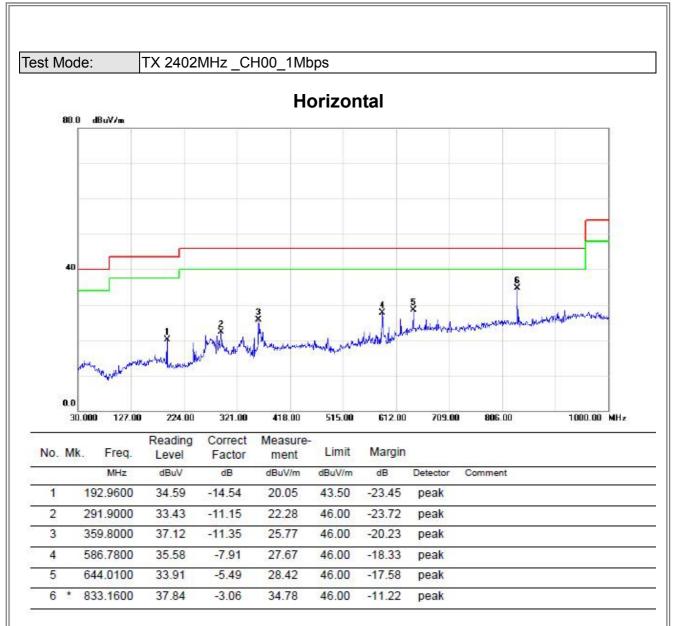
ATTACHMENT B - RADIATED EMISSION (9KHZ-30MHZ)

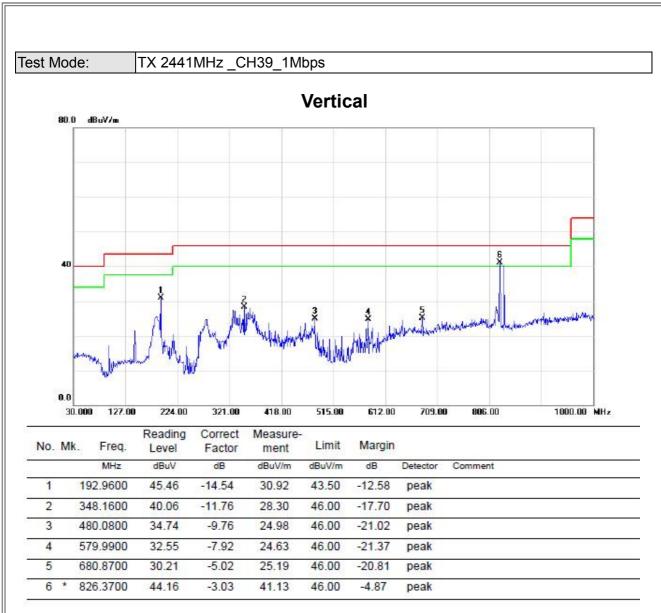
Test Mode: TX Mode							
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0074	0°	10.44	25.10	35.54	110.22	-74.68	AVG
0.0074	0°	13.11	25.10	38.21	130.22	-92.01	PEAK
0.0269	0°	2.12	23.86	25.98	99.01	-73.03	AVG
0.0269	0°	8.57	23.86	32.43	119.01	-86.58	PEAK
0.0317	0°	3.62	23.56	27.18	97.58	-70.40	AVG
0.0317	0°	5.36	23.56	28.92	117.58	-88.66	PEAK
0.0388	0°	1.74	23.11	24.85	95.83	-70.98	AVG
0.0388	0°	2.61	23.11	25.72	115.83	-90.11	PEAK
0.4958	0°	25.68	19.81	45.49	73.70	-28.21	QP
1.8549	0°	22.47	19.51	41.98	69.54	-27.56	QP
-							
Frequency (MHz)	Ant 0°/90°	Read level dBuV/m	Factor (dB)	Measured(FS) (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Note
0.0054	90°	11.40	24.30	35.70	132.96	-97.26	AVG
0.0054	90°	13.47	24.30	37.77	152.96	-115.19	PEAK
0.0337	90°	5.31	23.43	28.74	117.05	-88.31	AVG
0.0337	90°	7.46	23.43	30.89	137.05	-106.16	PEAK
0.0459	90°	2.89	22.66	25.55	114.37	-88.82	AVG
0.0459	90°	4.67	22.66	27.33	134.37	-107.04	PEAK
0.0445	90°	1.15	22.75	23.90	114.64	-90.74	AVG
0.0445	90°	3.84	22.75	26.59	134.64	-108.05	PEAK
0.5236	90°	31.41	19.88	51.29	73.22	-21.94	QP
1.8374	90°	23.46	19.52	42.98	69.54	-26.56	QP

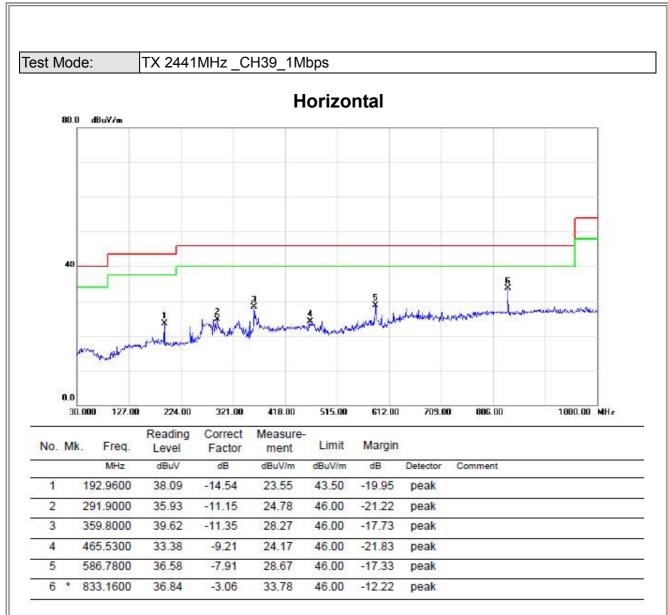
ATTACHMENT C - RADIATED EMISSION (30MHZ TO 1000MHZ)

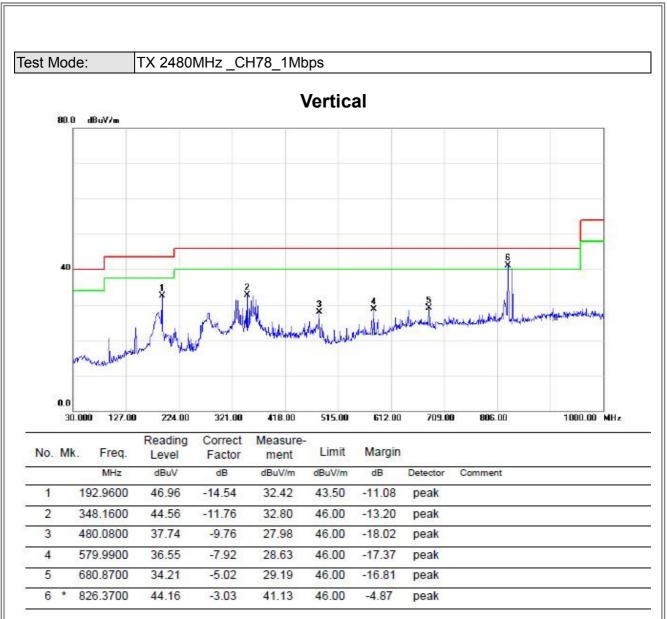
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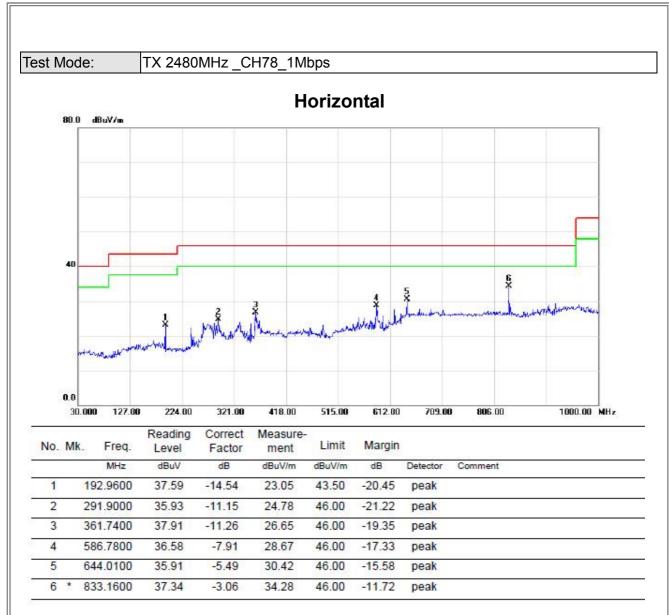




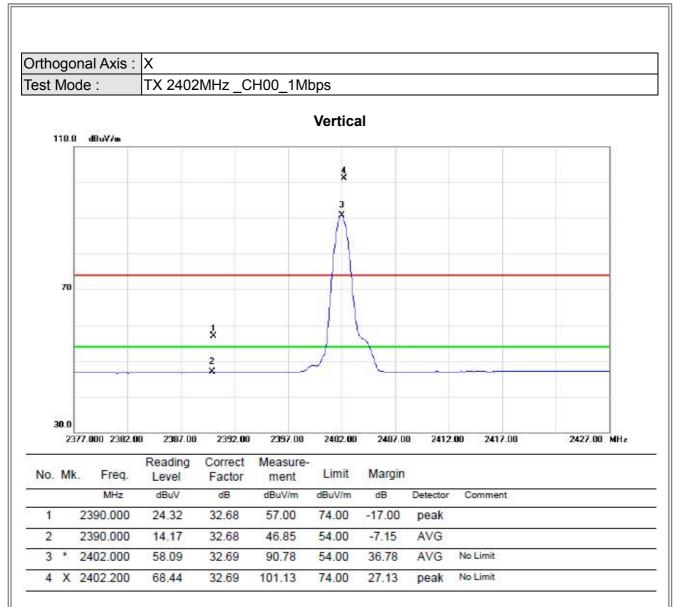




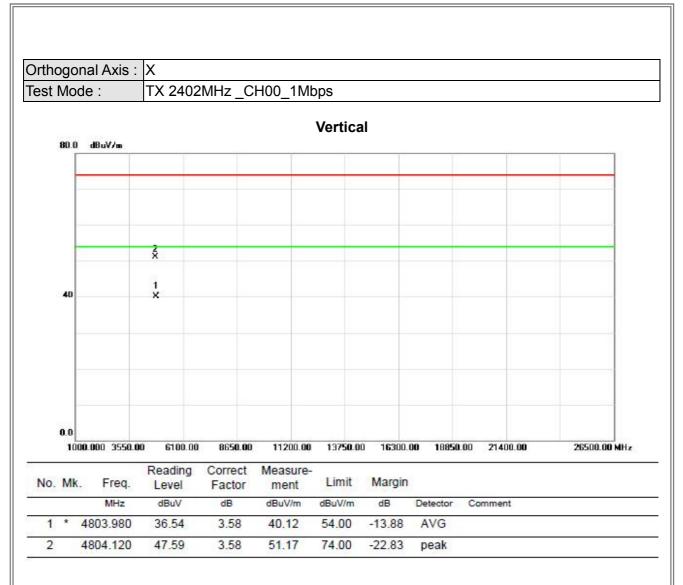


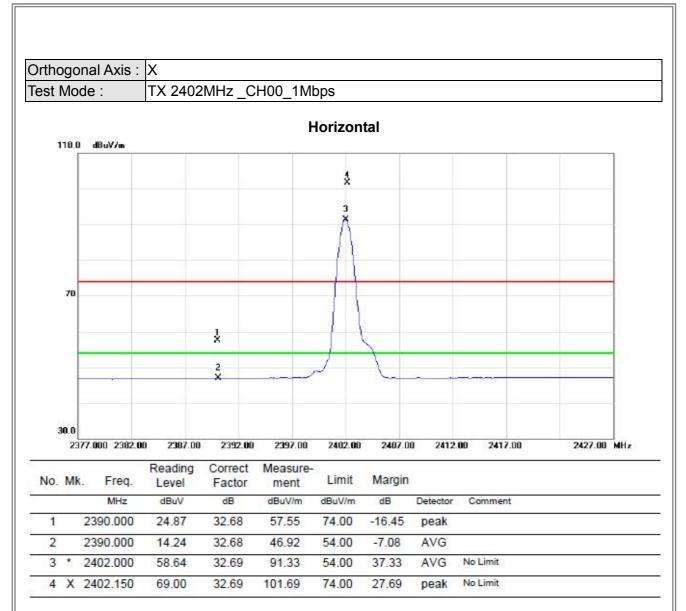


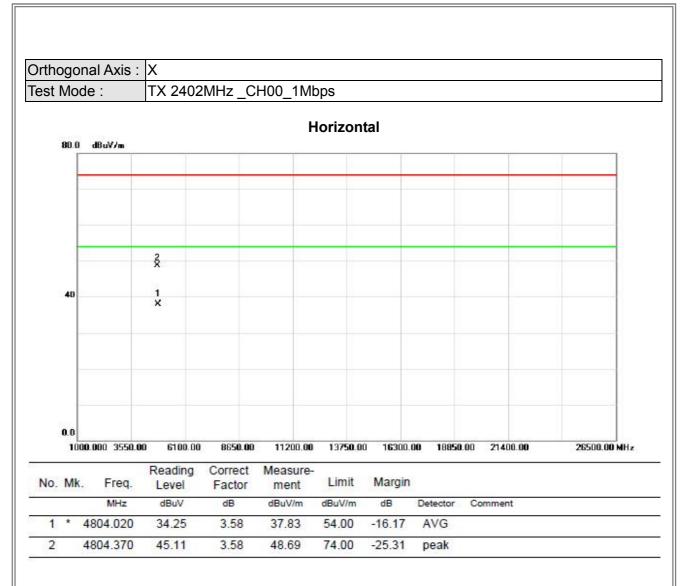
ATTACHMENT D - RADIATED EMISSION (ABOVE 1000MHZ)

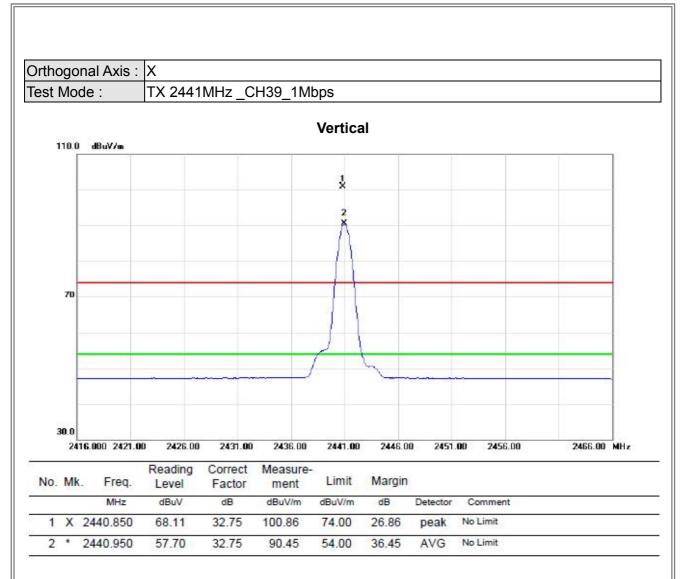


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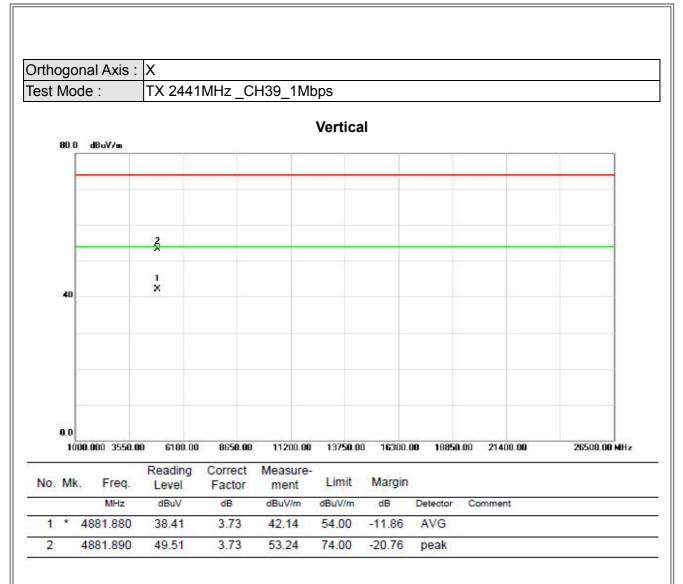


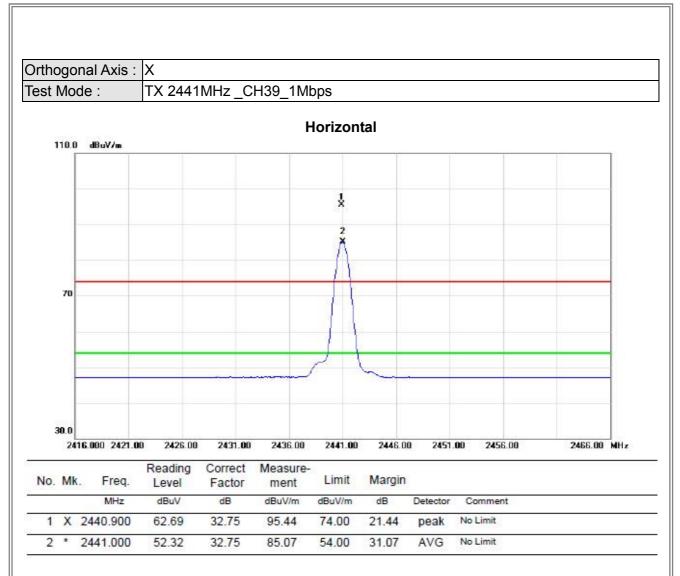


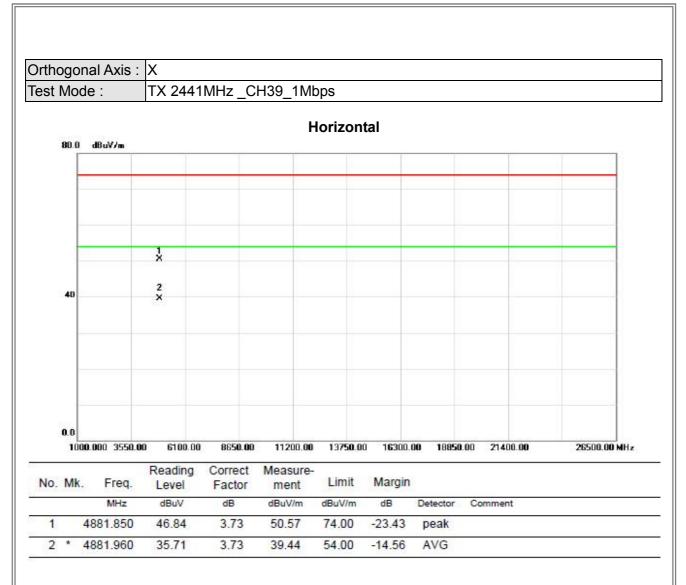


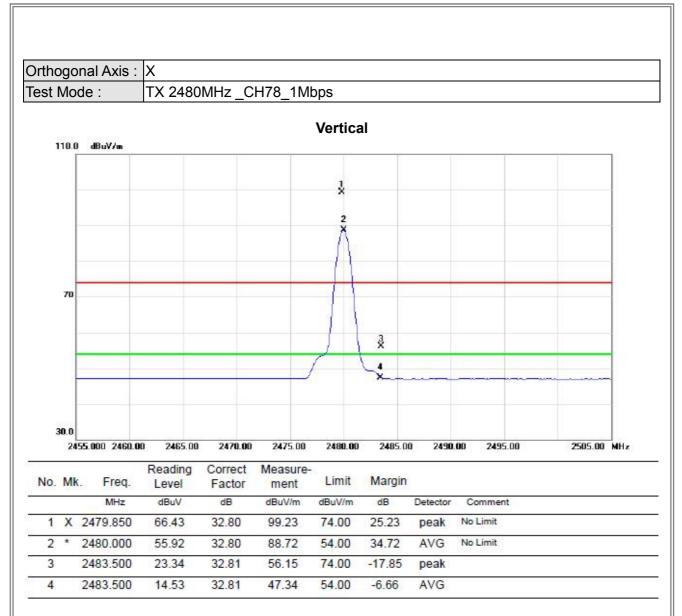


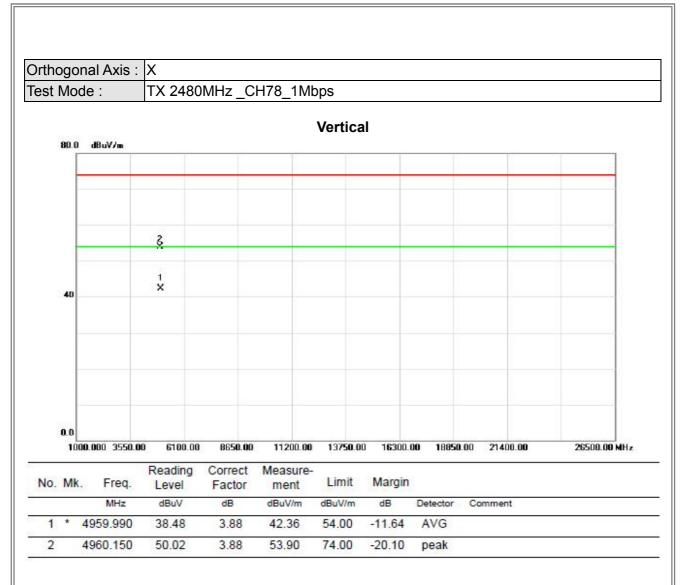
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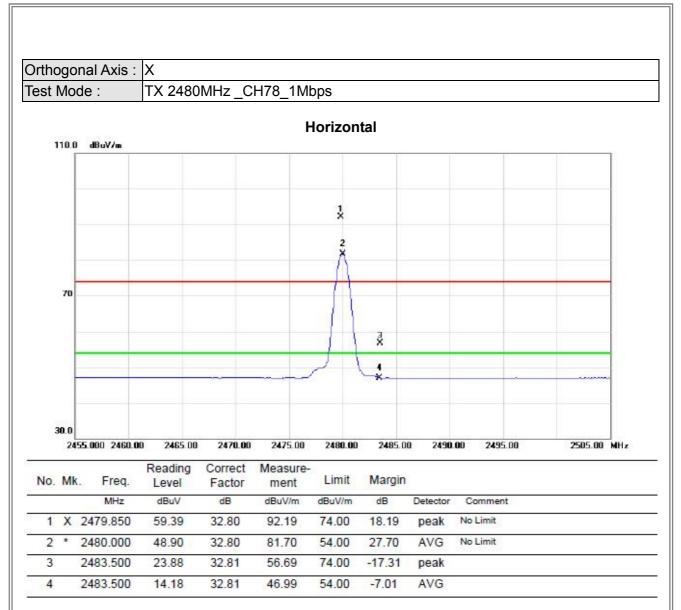


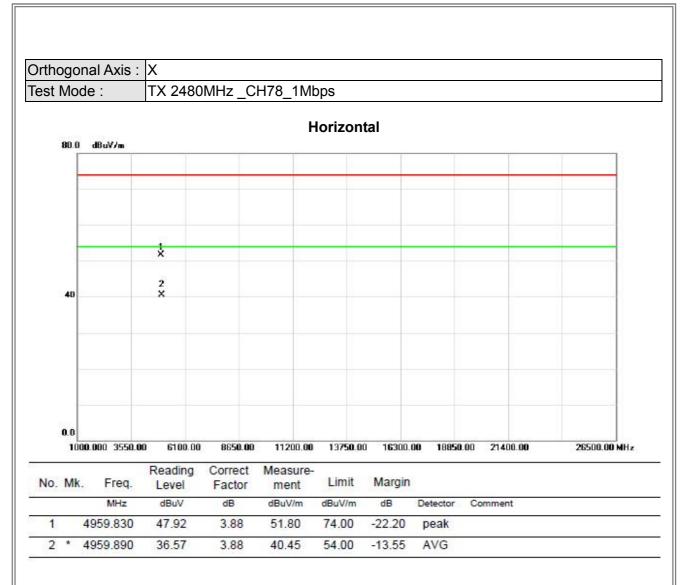


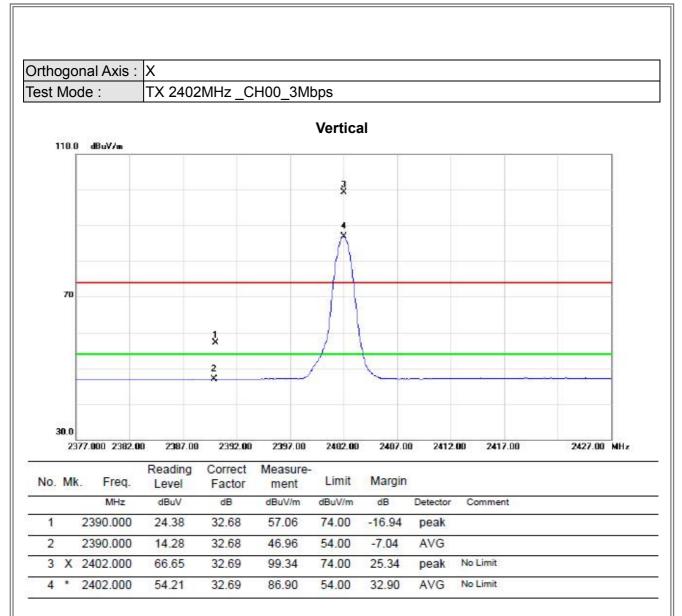


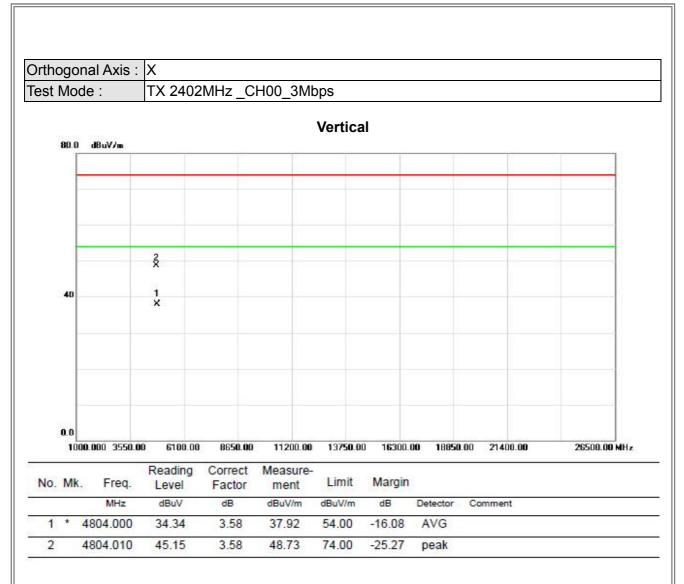


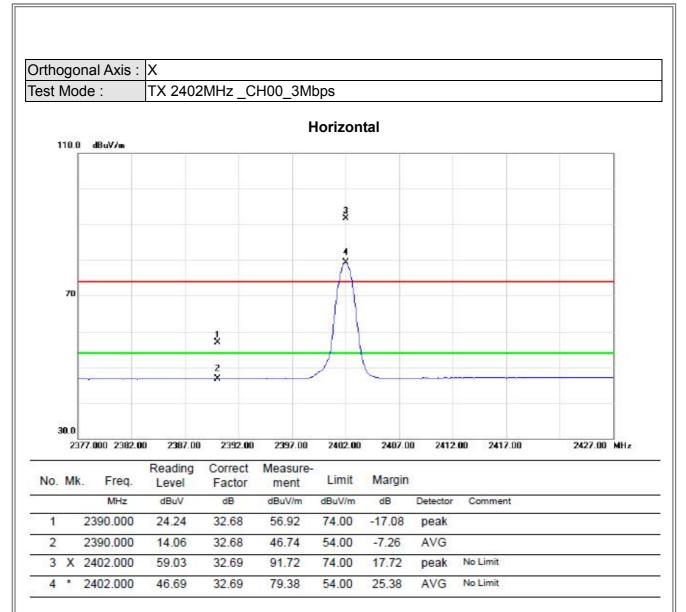


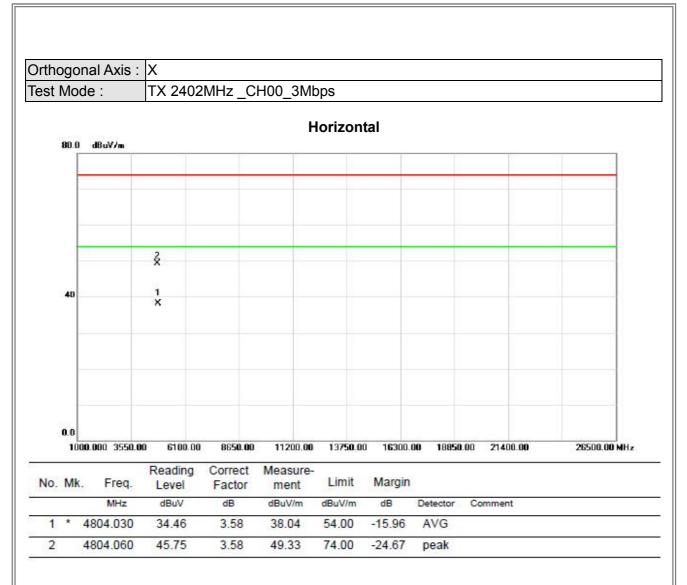


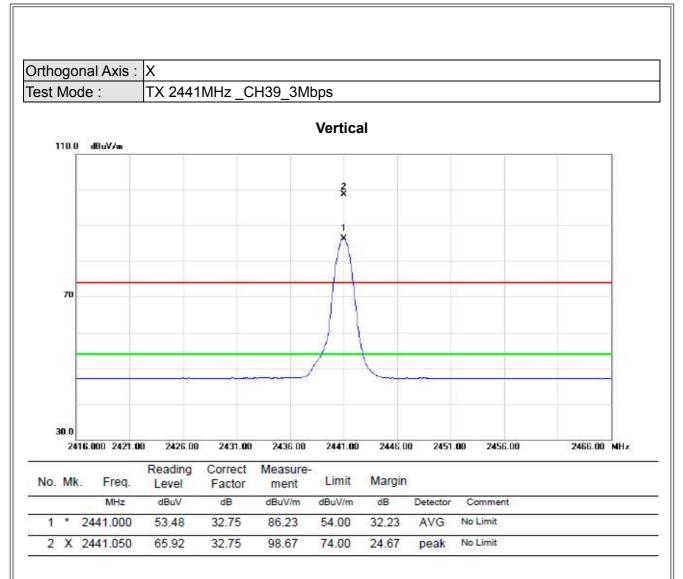




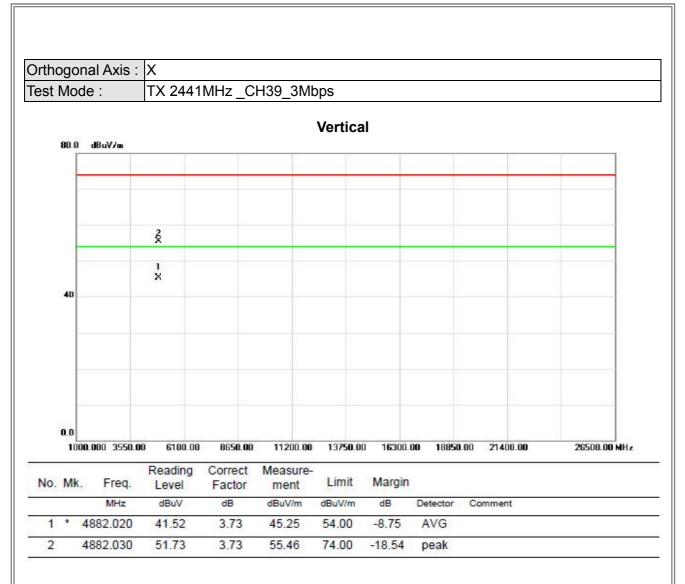


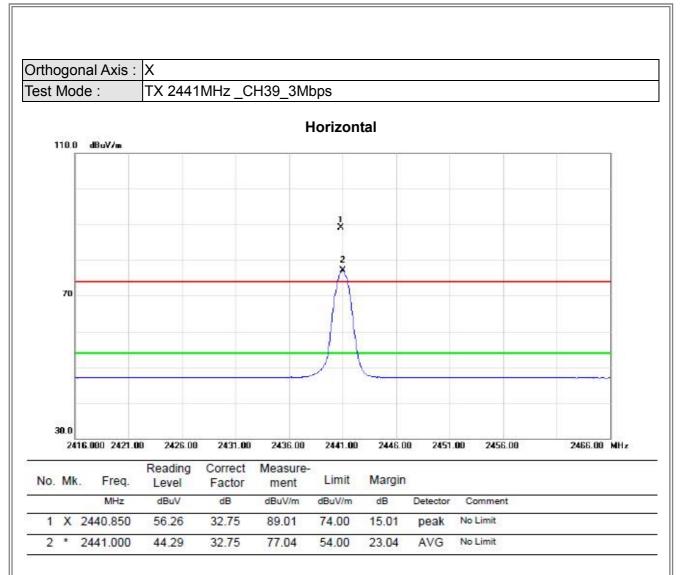


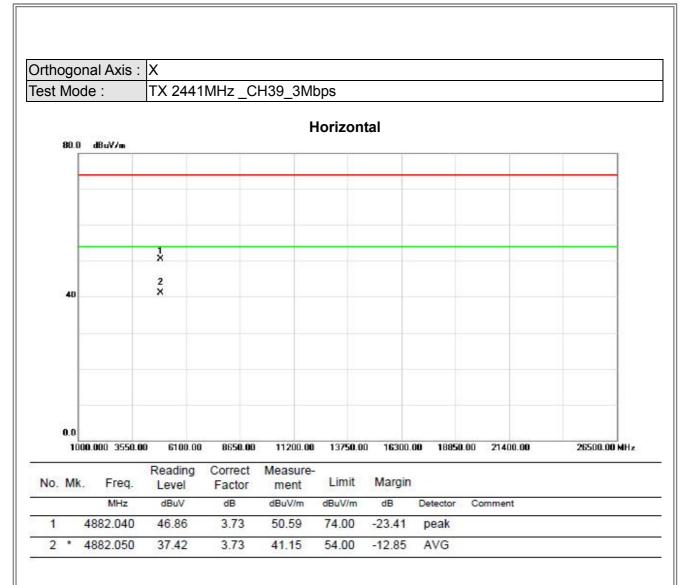


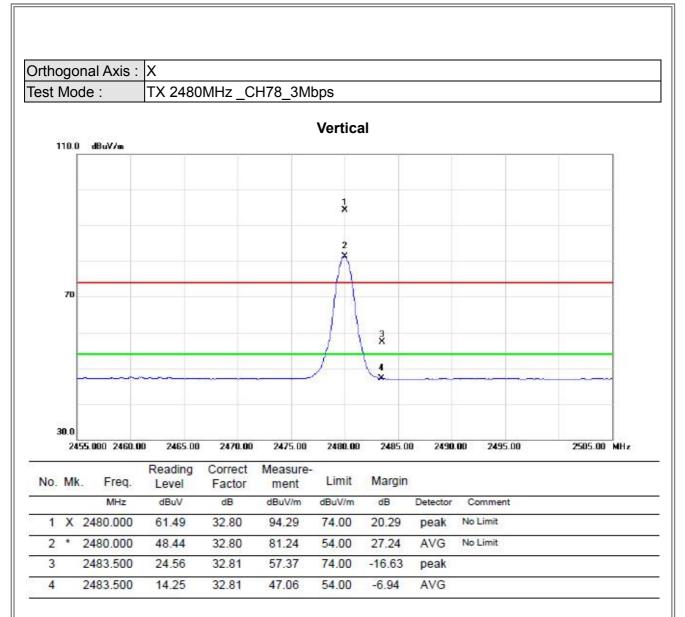


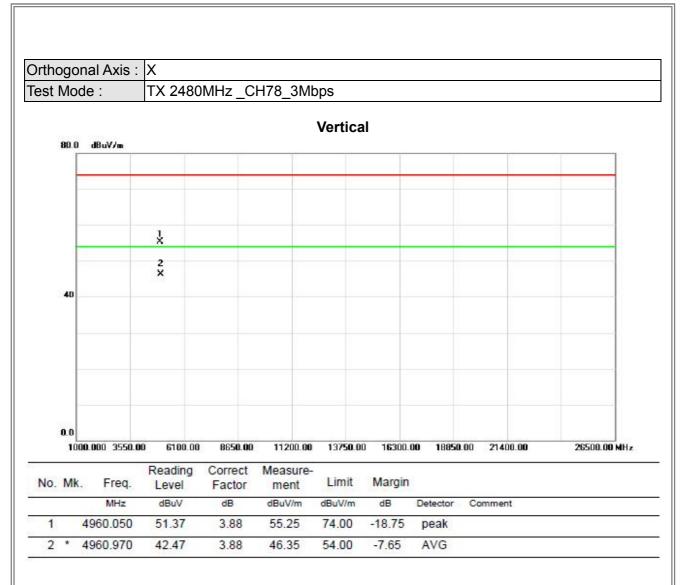
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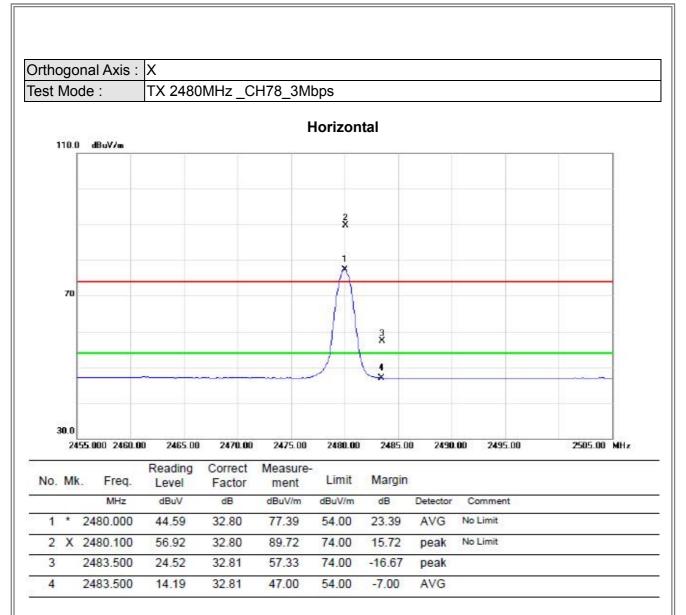


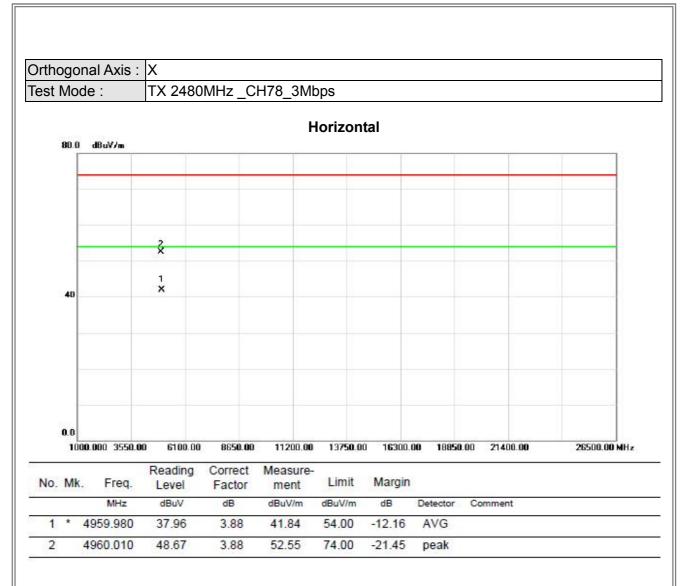




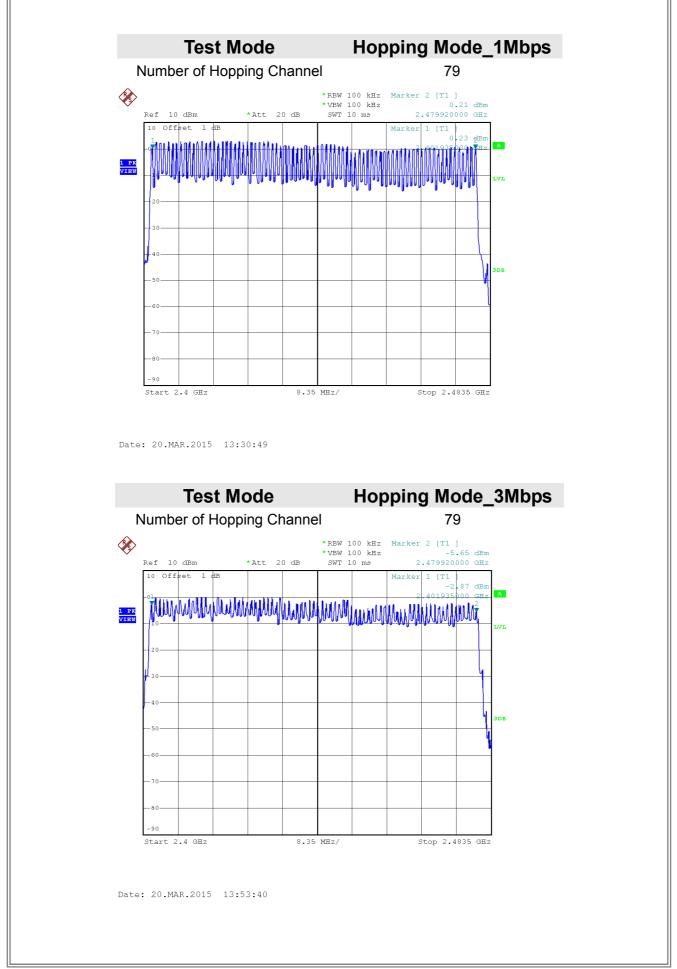








ATTACHMENT E - NUMBER OF HOPPING CHANNEL



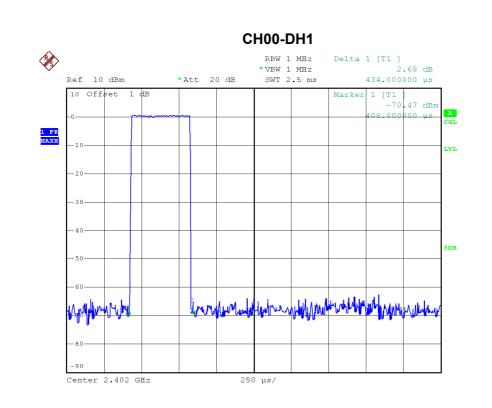
Report No.: BTL-FCCP-2-1503C087

ATTACHMENT F - AVERAGE TIME OF OCCUPANCY

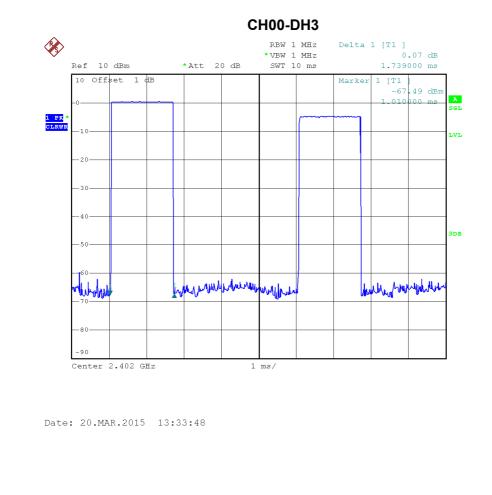
Test Mode :

TX Mode_1Mbps

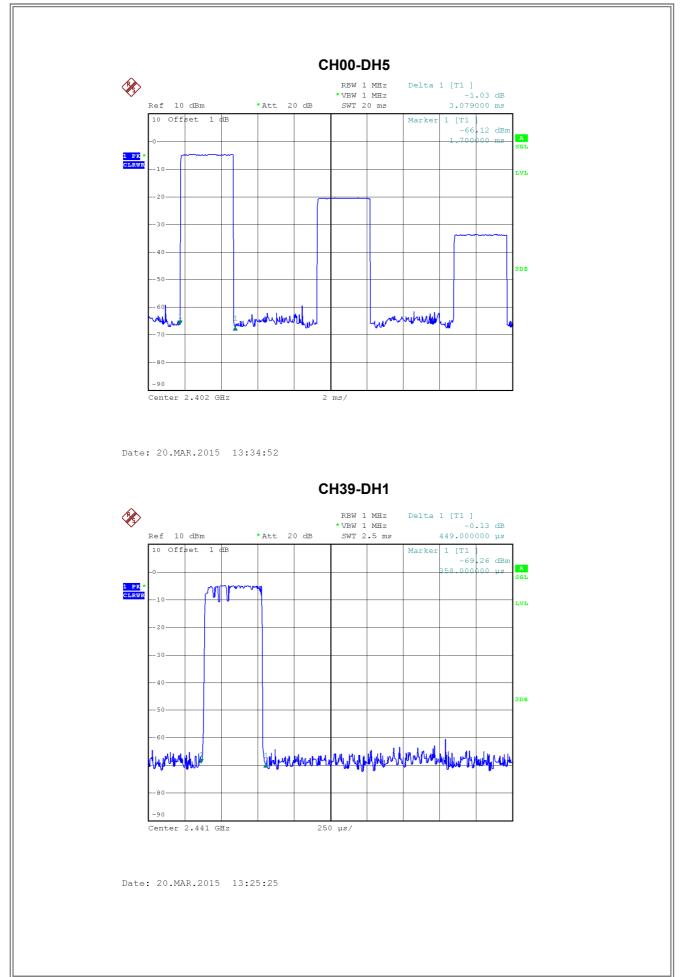
Data Packet	Frequency	Pulse Duration	Dwell Time	Limits	Test
Dala Fackel	(MHz)	(ms)	(S)	(s)	Result
DH5	2402	3.0790	0.3284	0.4000	Complies
DH3	2402	1.7390	0.2782	0.4000	Complies
DH1	2402	0.4340	0.1389	0.4000	Complies
DH5	2441	3.1200	0.3328	0.4000	Complies
DH3	2441	1.7590	0.2814	0.4000	Complies
DH1	2441	0.4490	0.1437	0.4000	Complies
DH5	2480	3.0790	0.3284	0.4000	Complies
DH3	2480	1.7590	0.2814	0.4000	Complies
DH1	2480	0.4240	0.1357	0.4000	Complies

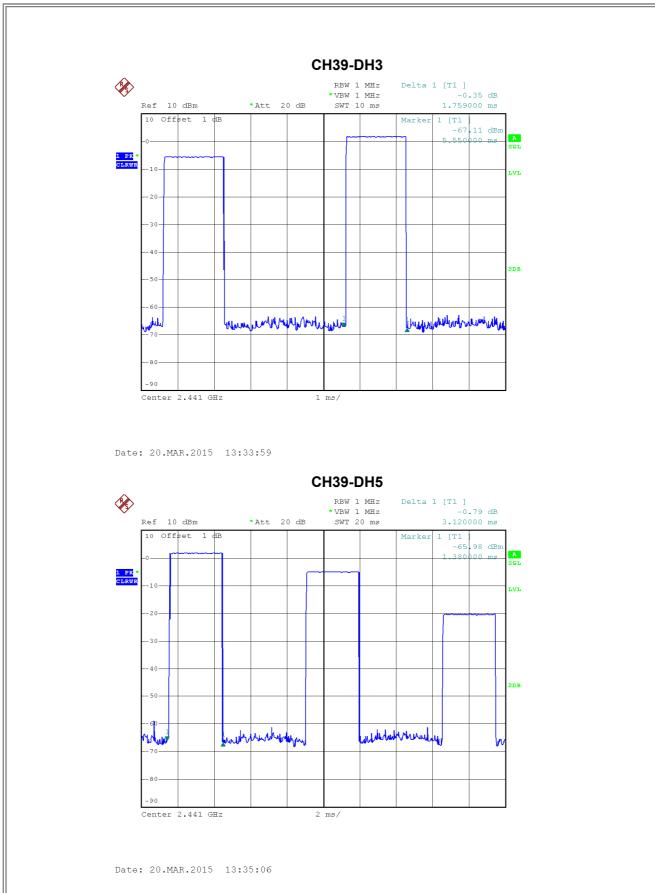


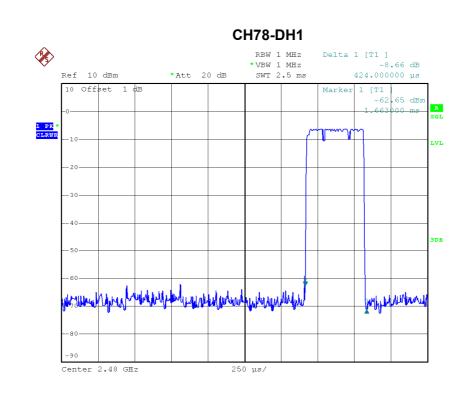
Date: 20.MAR.2015 13:25:15



Report No.: BTL-FCCP-2-1503C087

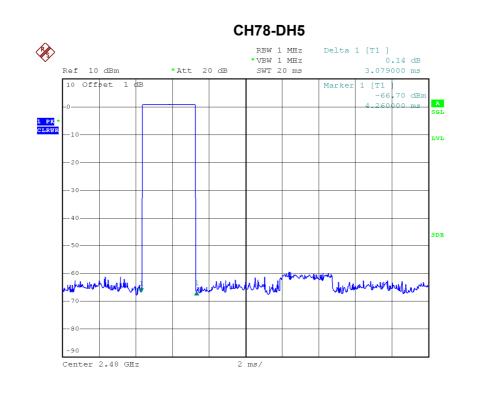






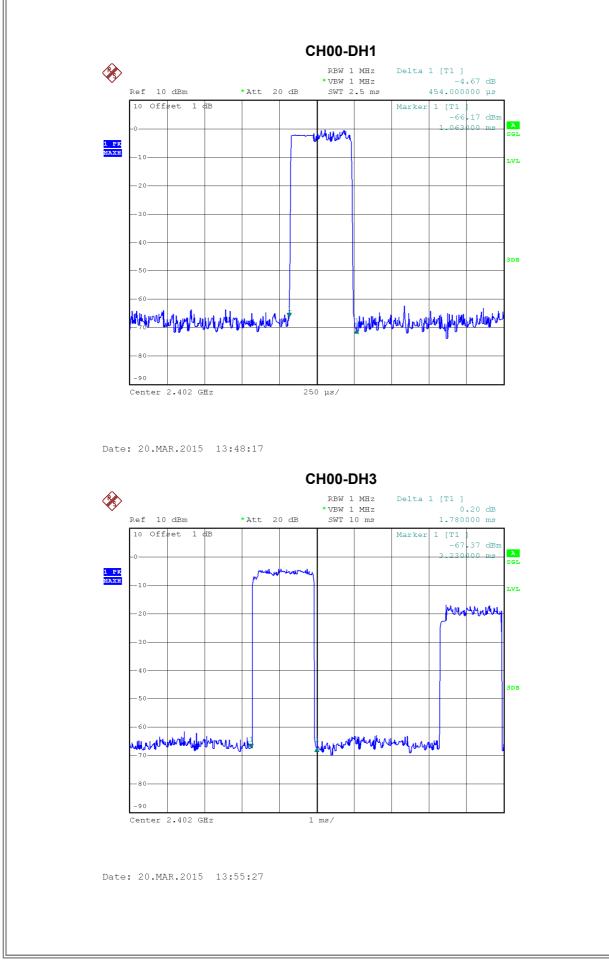
Date: 20.MAR.2015 13:25:37



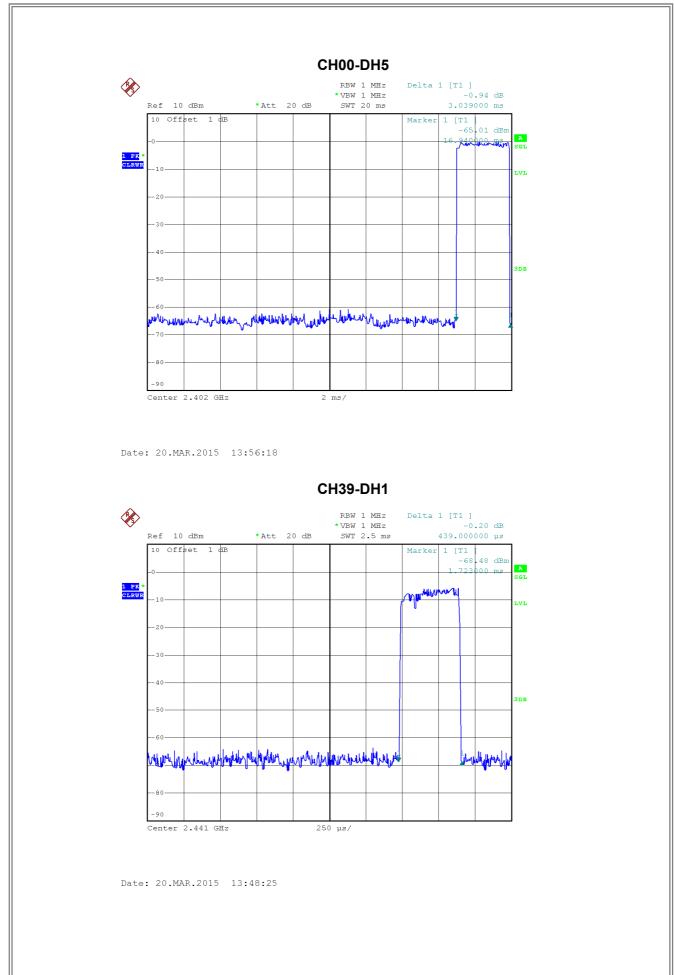


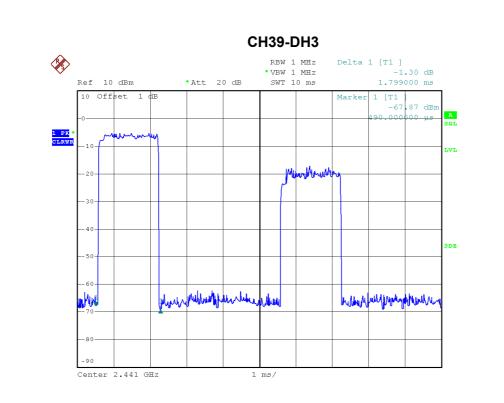
Date: 20.MAR.2015 13:35:17

Test Mode : T	X Mode_3Mbps				
Data Packet	Frequency	Pulse Duration	Dwell Time	Limits	Test
Dala Fackel	(MHz)	(ms)	(S)	(S)	Result
DH5	2402	3.0390	0.3242	0.4000	Complies
DH3	2402	1.7800	0.2848	0.4000	Complies
DH1	2402	0.4540	0.1453	0.4000	Complies
DH5	2441	3.1180	0.3326	0.4000	Complies
DH3	2441	1.7990	0.2878	0.4000	Complies
DH1	2441	0.4390	0.1405	0.4000	Complies
DH5	2480	3.0790	0.3284	0.4000	Complies
DH3	2480	1.7790	0.2846	0.4000	Complies
DH1	2480	0.4490	0.1437	0.4000	Complies

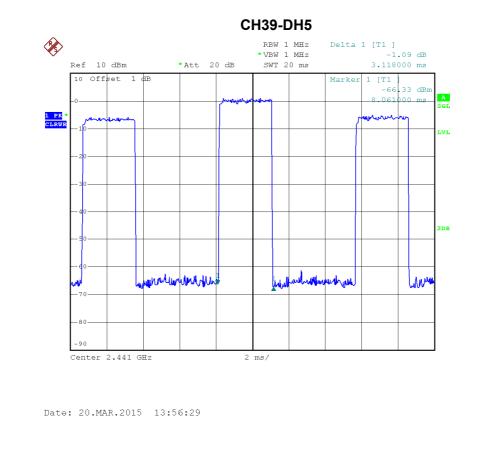


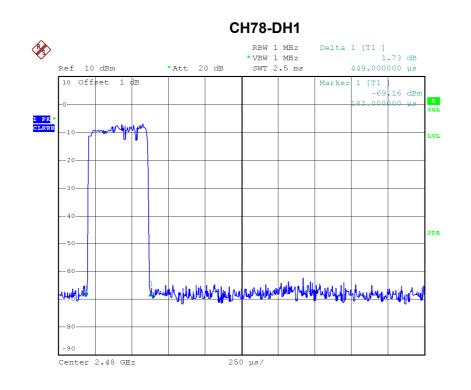
Report No.: BTL-FCCP-2-1503C087



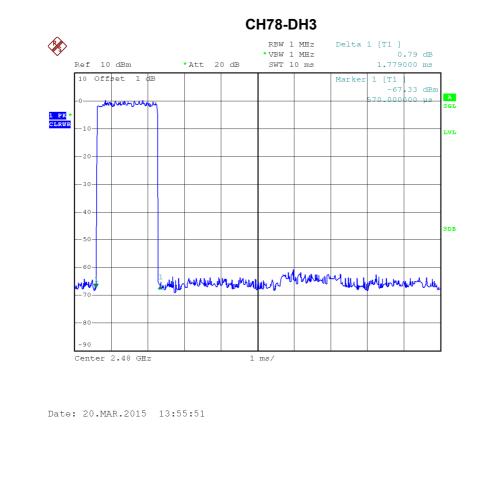


Date: 20.MAR.2015 13:55:38



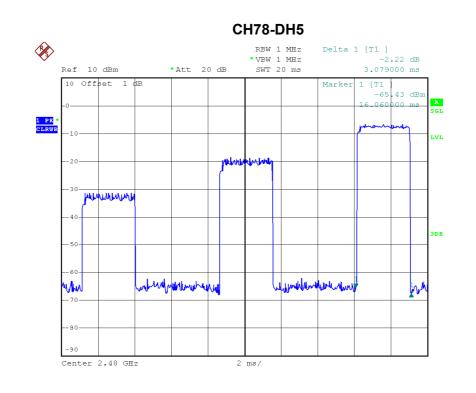


Date: 20.MAR.2015 13:48:33



Report No.: BTL-FCCP-2-1503C087

Page 85 of 110



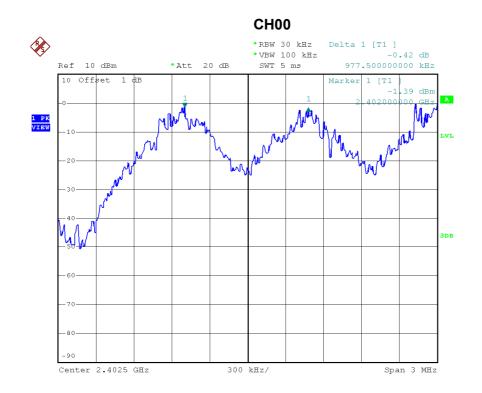
Date: 20.MAR.2015 13:56:40

ATTACHMENT G - HOPPING CHANNEL SEPARATION MEASUREMENT

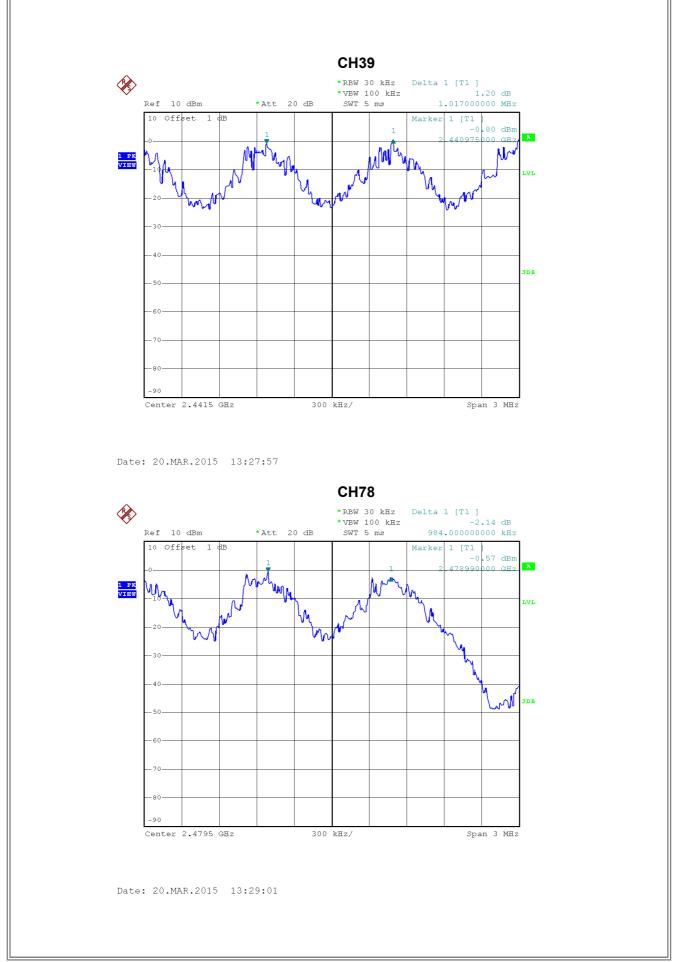
Test Mode	:	Ho
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opping on _1Mbps

	Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
ĺ	2402	0.978	0.551	Complies
	2441	1.017	0.569	Complies
ſ	2480	0.984	0.551	Complies



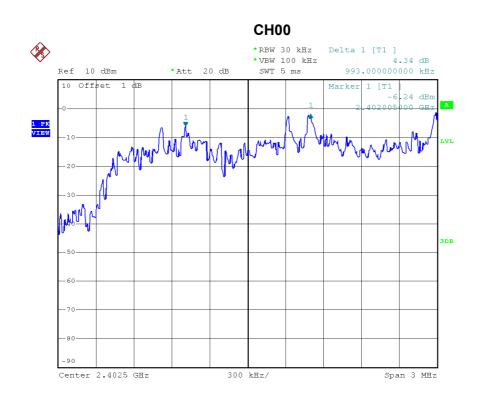
Date: 20.MAR.2015 13:26:50



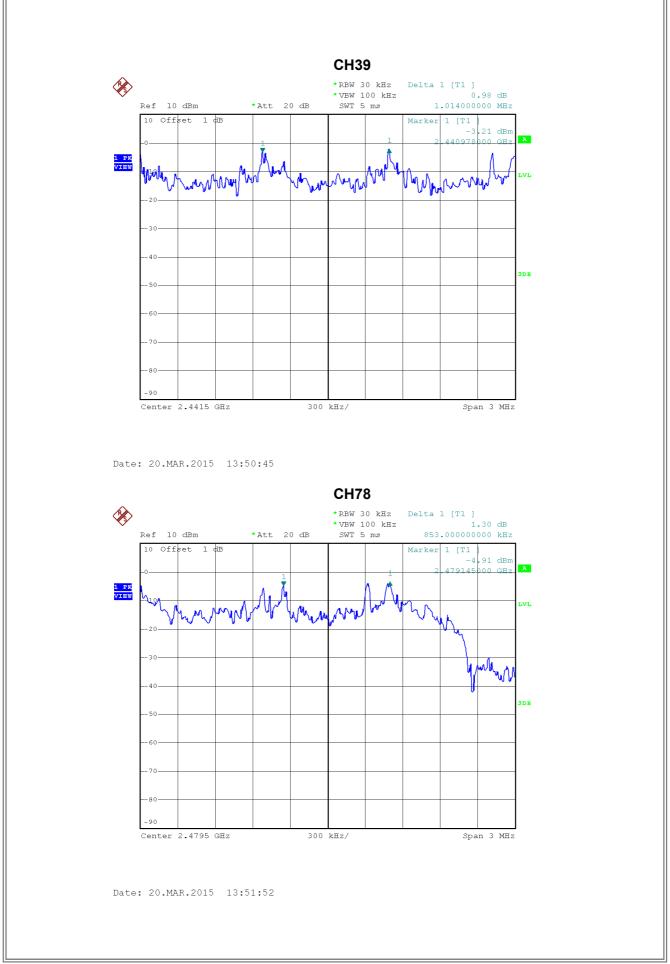
Test Mode :

Hopping on _3Mbps

Frequency (MHz)	Channel Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Test Result
2402	0.993	0.796	Complies
2441	1.014	0.807	Complies
2480	0.853	0.802	Complies

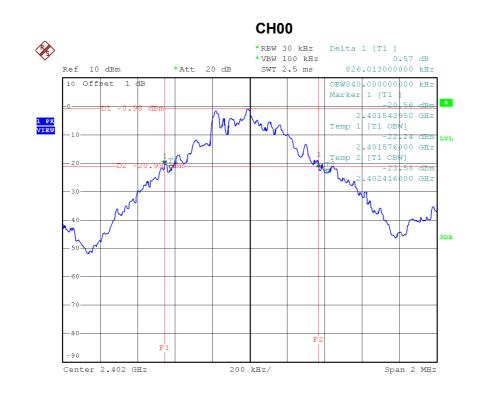


Date: 20.MAR.2015 13:49:41

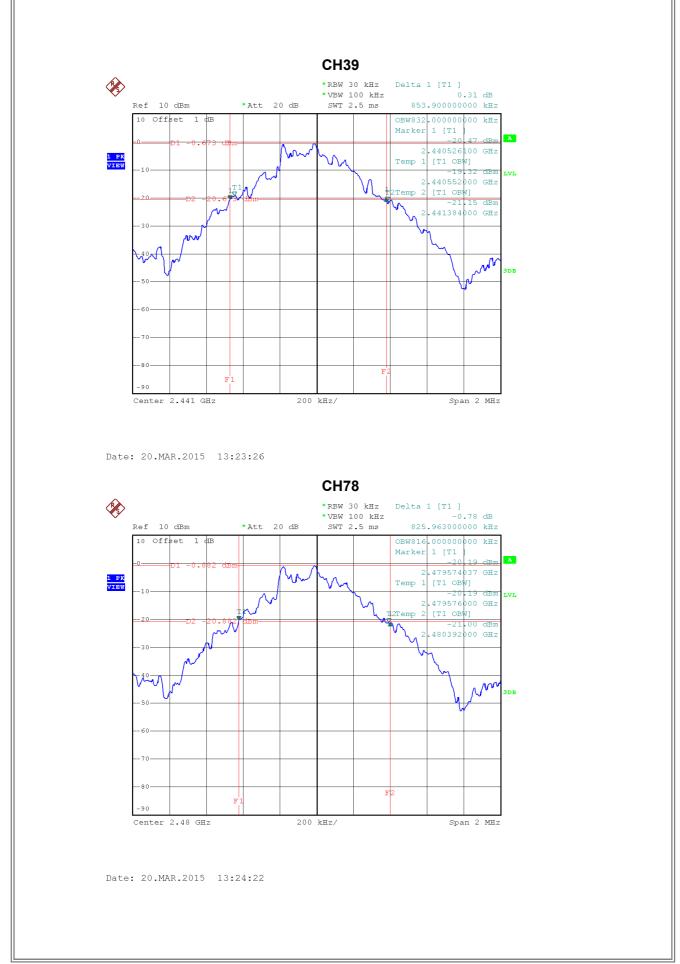


ATTACHMENT H - BANDWIDTH

Test M	ode : TX Mode	1Mbps		
		•		
	Frequency	20dB Bandwidth	99% Occupied BW	Test Desult
	(MHz)	(MHz)	(MHz)	Test Result
	2402	0.826	0.840	Complies
	2441	0.854	0.832	Complies
	2480	0.826	0.816	Complies



Date: 20.MAR.2015 13:22:37

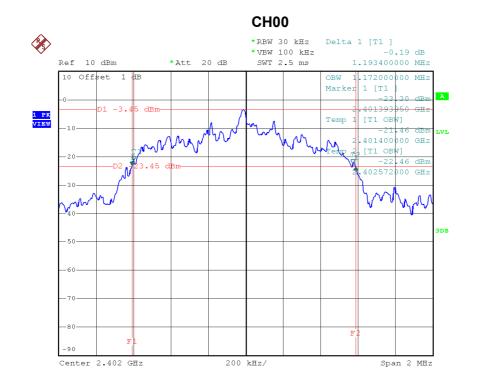


Report No.: BTL-FCCP-2-1503C087

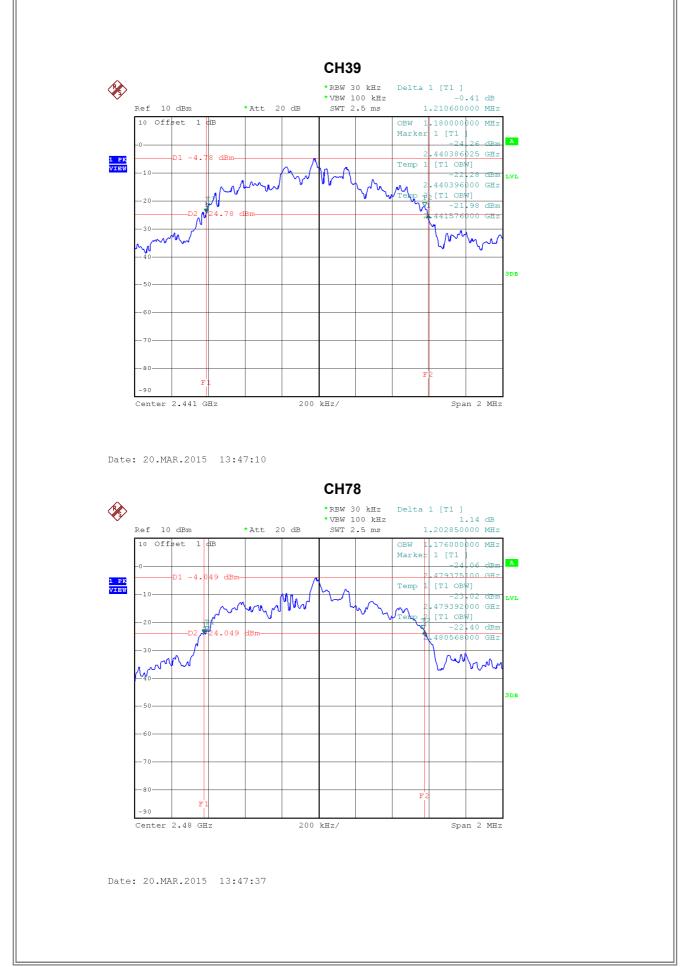
Test Mode :

TX Mode _3Mbps

Frequency (MHz)	20dB Bandwidth (MHz)	99% Occupied BW (MHz)	Test Result
2402	1.193	1.172	Complies
2441	1.211	1.180	Complies
2480	1.203	1.176	Complies



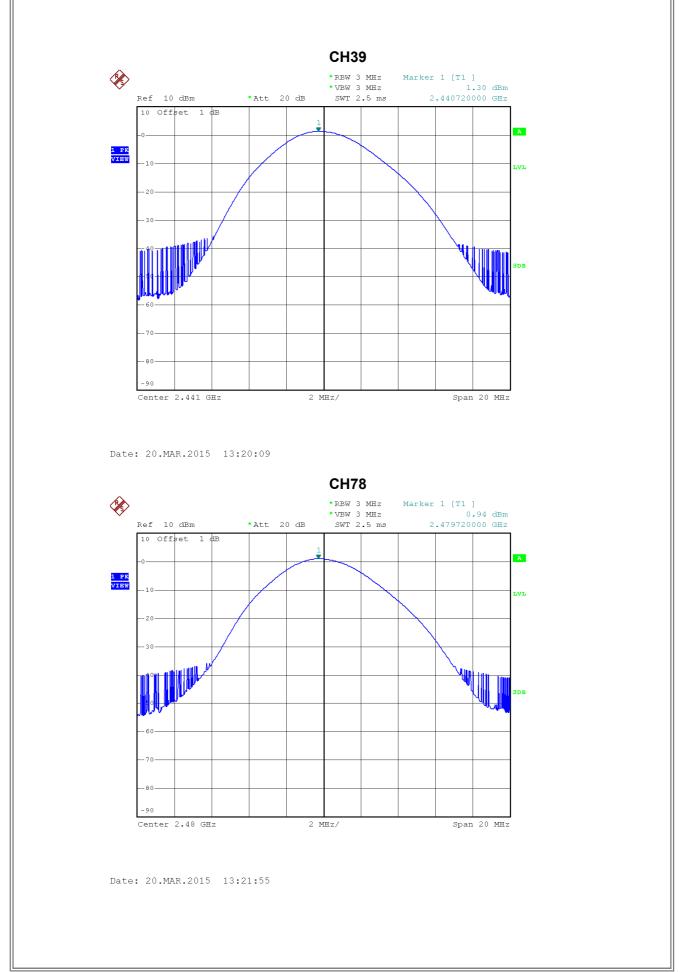
Date: 20.MAR.2015 13:44:44

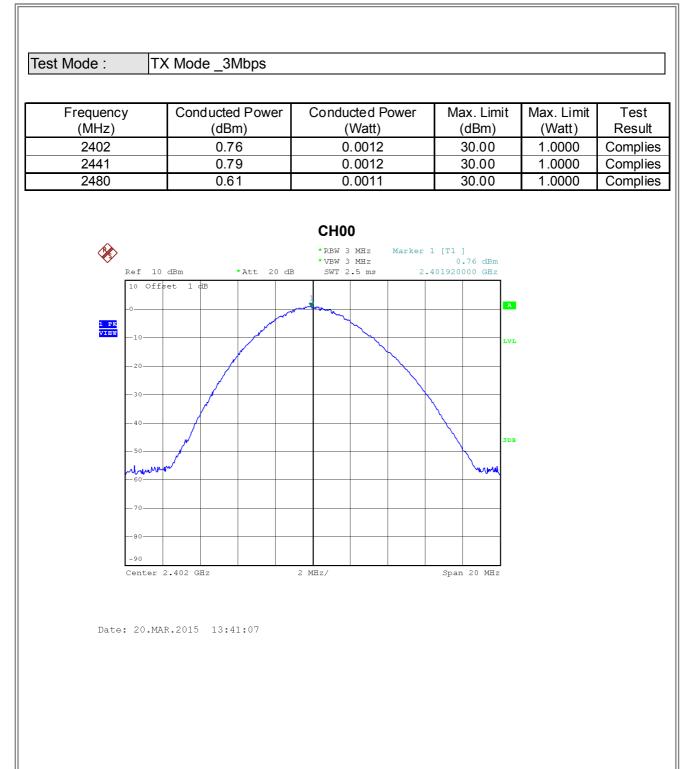


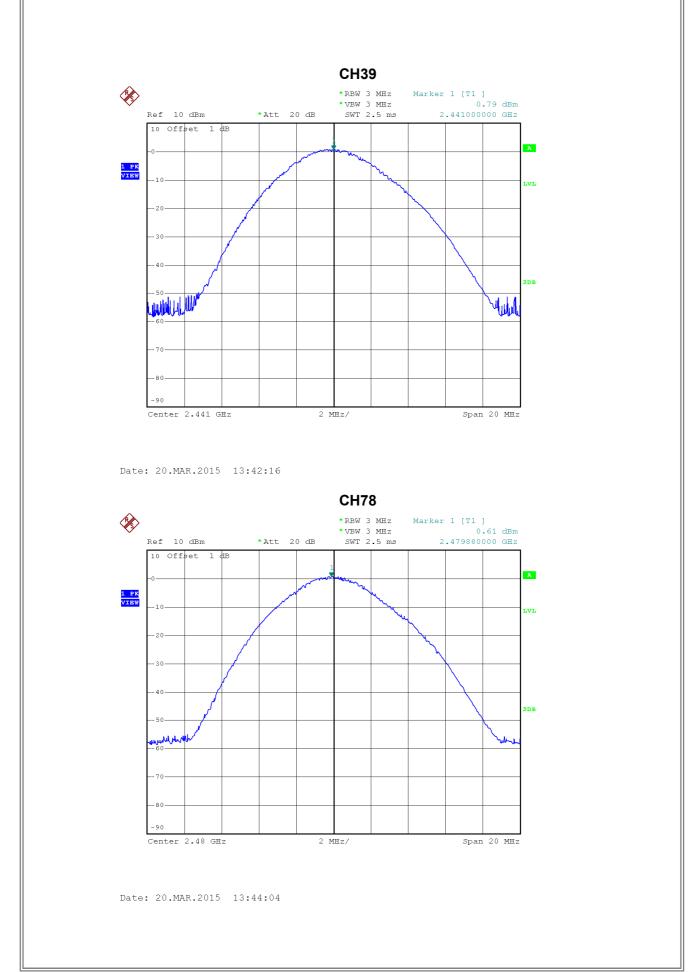
Report No.: BTL-FCCP-2-1503C087

ATTACHMENT I - PEAK OUTPUT POWER

Frequency	Conducted Power	Conducted Power	Max. Limit (dBm)	Max. Limit	Tes Resu
(MHz) 2402	(dBm) 1.01	(Watt) 0.0013	30.00	(Watt) 1.0000	Compl
2441	1.30	0.0013	30.00	1.0000	Compl
2480	0.94	0.0012	30.00	1.0000	Compl
•		CH00			
Ref	10 dBm * Att 20 d	*RBW 3 MHz Marker *VBW 3 MHz dB SWT 2.5 ms 2	1 [T1] 1.01 dBm .402200000 GHz		
	fføet 1 dB		102200000 012		
-0		×	A		
1 PK VIEW10			LVL		
20					
30					
40-					
sp			3DB		
70					
80					
-90 Cente	r 2.402 GHz	2 MHz/	Span 20 MHz		
Date: 20.1	MAR.2015 13:18:27				

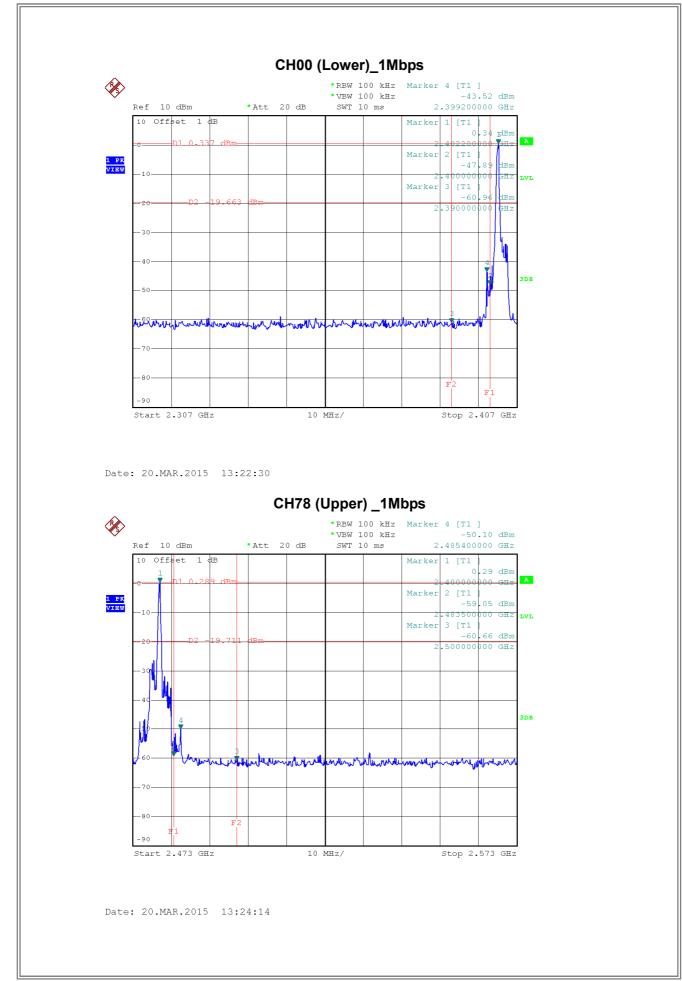


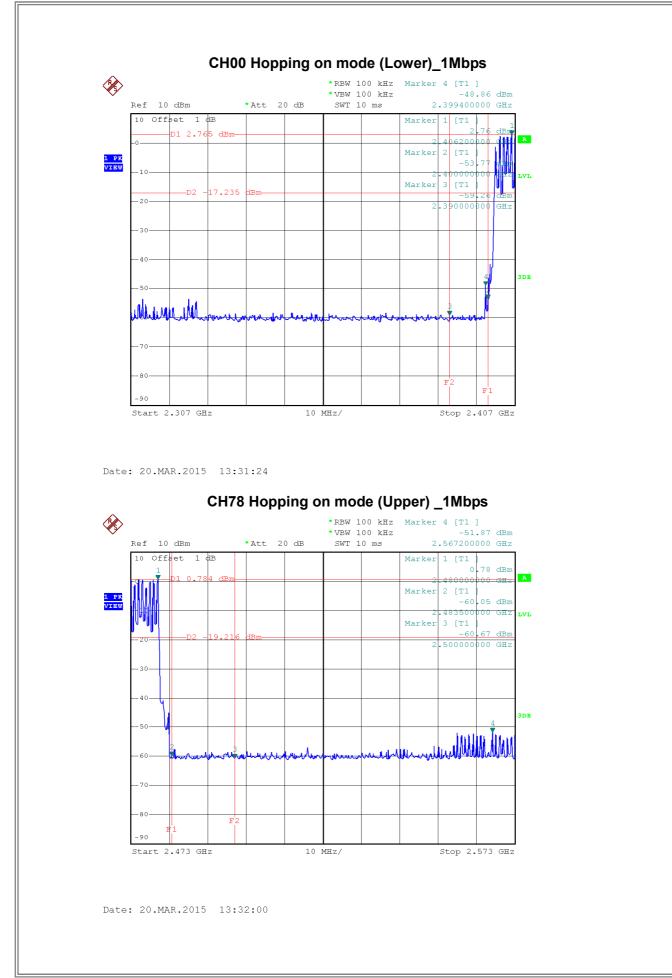




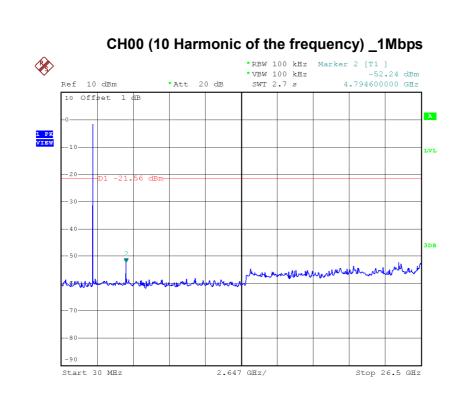
Report No.: BTL-FCCP-2-1503C087

ATTACHMENT J - ANTENNA CONDUCTED SPURIOUS EMISSION





Report No.: BTL-FCCP-2-1503C087



Date: 20.MAR.2015 13:22:51

