

# **FCC Test Report**

Report No.: RF151221C02-7

FCC ID: NM82PS6500

Test Model: 2PS6500

Received Date: Dec. 21, 2015

Test Date: Jan. 20, 2016 ~ Feb. 03, 2016

Issued Date: Feb. 25, 2016

**Applicant:** HTC Corporation

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(R.O.C)

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Report No.: RF151221C02-7 Page No. 1 / 33 Report Format Version: 6.1.1



## **Table of Contents**

1 Certificate of Conformity         5           2 Summary of Test Results         6           2.1 Measurement Uncertainty         6           2.2 Modification Record         6           3 General Information         7           3.1 General Description of EUT         7           3.2 Description of Test Modes         8           3.2.1 Test Mode Applicability and Tested Channel Detail         9           3.3 Description of Support Units         11           3.3 Description of Support Units         11           3.4 General Description of Applied Standards         11           4 Test Types and Results         12           4.1 Radiated Emission and Bandedge Measurement         12           4.1.2 Test Instruments         13           4.1.3 Test Procedures         13           4.1.4 Deviation from Test Standard         14           4.1.5 Test St St Up         15           4.1.6 EUT Operating Conditions         15           4.1.7 Test Results         20           4.2.1 Limits of Conducted Emission Measurement         20           4.2.2 Test Instruments         20           4.2.3 Test Procedures         20           4.2.4 Limits of Conducted Con	Release Control Record						
2.1 Measurement Uncertainty	1	Cert	tificate of Conformity	. 5			
2.2 Modification Record       6         3 General Information       7         3.1 General Description of EUT       7         3.2 Description of Eyel Modes       8         3.2.1 Test Mode Applicability and Tested Channel Detail       9         3.3 Description of Support Units       11         3.3.1 Configuration of System under Test       11         3.4 General Description of Applied Standards       11         4.7 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 B	2	Sun	nmary of Test Results	. 6			
2.2 Modification Record       6         3 General Information       7         3.1 General Description of EUT       7         3.2 Description of Eyel Modes       8         3.2.1 Test Mode Applicability and Tested Channel Detail       9         3.3 Description of Support Units       11         3.3.1 Configuration of System under Test       11         3.4 General Description of Applied Standards       11         4.7 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 B		21	Measurement I Incertainty	6			
3 General Information       7         3.1 General Description of EUT       7         3.2 Description of Test Modes       8         3.2.1 Test Mode Applicability and Tested Channel Detail       9         3.3 Description of Support Units       11         3.4 Configuration of System under Test       11         3.4 General Description of Applied Standards       11         4 Test Types and Results       11         4.1 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 Test Results       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 &							
3.1 General Description of Test Modes       8         3.2.1 Test Mode Applicability and Tested Channel Detail       9         3.3 Description of Support Units       11         3.3.1 Configuration of Syptem under Test       11         3.4 General Description of Applied Standards       11         4 Test Types and Results       12         4.1 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 Beach Against Conditions       21         4.2.7 Test Result       24         4	2						
3.2 Description of Test Modes.         8           3.2.1 Test Mode Applicability and Tested Channel Detail.         9           3.3 Description of Support Units         11           3.4 General Description of Applied Standards.         111           4 Test Types and Results         112           4.1 Radiated Emission and Bandedge Measurement         12           4.1.1 Limits of Radiated Emission and Bandedge Measurement         12           4.1.2 Test Instruments.         13           4.1.3 Test Procedures.         14           4.1.5 Test Set Up         15           4.1.6 EUT Operating Conditions         15           4.1.7 Test Results         16           4.2 Conducted Emission Measurement         20           4.2.1 Limits of Conducted Emission Measurement         20           4.2.2 Test Instruments         20           4.2.3 Test Procedures         20           4.2.4 Deviation from Test Standard         20           4.2.5 TEST SETUP         21           4.2.6 EUT Operating Conditions         21           4.2.7 Test Results         22           4.3 6 B Bandwidth Measurement         24           4.3.1 Limits of 6 dB Bandwidth Measurement         24           4.3.2 Test Setup         24           4.3	3						
3.2.1 Test Mode Applicability and Tested Channel Detail.       9         3.3 Description of Support Units       11         3.3.1 Configuration of System under Test.       111         3.4 General Description of Applied Standards.       11         4 Test Types and Results.       12         4.1 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments.       13         4.1.3 Test Procedures.       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up.       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results.       16         4.2 Conducted Emission Measurement.       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures.       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SET UP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results.       22         4.3 6 BB andwidth Measurement.       24         4.3.1 Limits of 6 dB Bandwidth Measurement.       24         4.3.2 Test Setup.       24 <th></th> <th></th> <th></th> <th></th>							
3.3 Description of Support Units       .11         3.3.1 Configuration of System under Test       .11         3.4 General Description of Applied Standards       .11         4 Test Types and Results       .12         4.1 Radiated Emission and Bandedge Measurement       .12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       .12         4.1.2 Test Instruments       .13         4.1.3 Test Procedures       .14         4.1.4 Deviation from Test Standard       .14         4.1.5 Test Set Up       .15         4.1.6 EUT Operating Conditions       .15         4.1.7 Test Results       .16         4.2 Conducted Emission Measurement       .20         4.2.1 Limits of Conducted Emission Measurement       .20         4.2.2 Test Instruments       .20         4.2.3 Test Procedures       .20         4.2.4 Deviation from Test Standard       .20         4.2.5 TEST SETUP       .21         4.2.6 EUT Operating Conditions       .21         4.2.7 Test Results       .22         4.3 Limits of 6 dB Bandwidth Measurement       .24         4.3.1 Limits of 6 dB Bandwidth Measurement       .24         4.3.2 Test Setup       .24         4.3.3 Test Instruments       .24		3.2					
3.3.1 Configuration of System under Test       .11         3.4 General Description of Applied Standards.       .11         4 Test Types and Results.       .12         4.1 Radiated Emission and Bandedge Measurement       .12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       .12         4.1.2 Test Instruments       .13         4.1.3 Test Procedures       .14         4.1.4 Deviation from Test Standard       .14         4.1.5 Test Set Up       .15         4.1.6 EUT Operating Conditions       .15         4.1.7 Test Results       .16         4.2 Conducted Emission Measurement       .20         4.2.1 Limits of Conducted Emission Measurement       .20         4.2.2 Test Instruments       .20         4.2.3 Test Procedures       .20         4.2.4 Deviation from Test Standard       .20         4.2.5 EUT Operating Conditions       .21         4.2.6 EUT Operating Conditions       .21         4.2.7 Test Results       .22         4.3 d Bandwidth Measurement       .24         4.3.1 Limits of 6 dB Bandwidth Measurement       .24         4.3.2 Test Setup       .24         4.3.3 Deviation fromTest Standard       .24         4.3.5 Deviation fromTest Standard       .24 </th <th></th> <th>33</th> <th></th> <th></th>		33					
3.4 General Description of Applied Standards       .11         4 Test Types and Results       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation from Test Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25		3.3					
4 Test Types and Results.       12         4.1 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 Limits of 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Procedures		3.4					
4.1 Radiated Emission and Bandedge Measurement       12         4.1.1 Limits of Radiated Emission and Bandedge Measurement       12         4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 Limits of 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Instruments<	4	Tesi	t Types and Results	12			
4.1.1       Limits of Radiated Emission and Bandedge Measurement       12         4.1.2       Test Instruments       13         4.1.3       Test Procedures       14         4.1.4       Deviation from Test Standard       14         4.1.5       Test Set Up       15         4.1.6       EUT Operating Conditions       15         4.1.7       Test Results       16         4.2       Conducted Emission Measurement       20         4.2.1       Limits of Conducted Emission Measurement       20         4.2.2       Test Instruments       20         4.2.3       Test Procedures       20         4.2.4       Deviation from Test Standard       20         4.2.5       TEST SETUP       21         4.2.6       EUT Operating Conditions       21         4.2.7       Test Results       22         4.3.1       Limits of 6 dB Bandwidth Measurement       24         4.3.2       Test Setup       24         4.3.3       Test Instruments       24         4.3.4       Test Procedure       24         4.3.5       Deviation from Test Standard       24         4.3.6       EUT Operating Conditions       24         4.	-		••				
4.1.2 Test Instruments       13         4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 B Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.1 Test Instruments       26         4.4.2 Test Setup       26         4.4.3 Test Instruments		4.1	A 1.1 Limits of Radiated Emission and Randodgo Mossurement	12			
4.1.3 Test Procedures       14         4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.5 Deviation from Test Standard       26         4							
4.1.4 Deviation from Test Standard       14         4.1.5 Test Set Up       15         4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Tes							
4.1.6 EUT Operating Conditions       15         4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 BB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation from Test Standard       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.5 Deviation from Test Standard       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Results       27							
4.1.7 Test Results       16         4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.5.1 Limits of Power Spectral Density Measurement       27							
4.2 Conducted Emission Measurement       20         4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.5 Deviation from Test Standard       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27 <th></th> <th></th> <th></th> <th></th>							
4.2.1 Limits of Conducted Emission Measurement       20         4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27		4.0					
4.2.2 Test Instruments       20         4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.5 Deviation from Test Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.2 Test Setup       27         4.5.3 Test Instruments <th></th> <th>4.2</th> <th></th> <th></th>		4.2					
4.2.3 Test Procedures       20         4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.5 Deviation from Test Standard       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.							
4.2.4 Deviation from Test Standard       20         4.2.5 TEST SETUP       21         4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT O							
4.2.6 EUT Operating Conditions       21         4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.2.7 Test Results       22         4.3 6 dB Bandwidth Measurement       24         4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.3       6 dB Bandwidth Measurement       24         4.3.1       Limits of 6 dB Bandwidth Measurement       24         4.3.2       Test Setup       24         4.3.3       Test Instruments       24         4.3.4       Test Procedure       24         4.3.5       Deviation fromTest Standard       24         4.3.6       EUT Operating Conditions       24         4.3.7       Test Result       25         4.4       Conducted Output Power Measurement       26         4.4.1       Limits of Conducted Output Power Measurement       26         4.4.2       Test Setup       26         4.4.3       Test Instruments       26         4.4.4       Test Procedures       26         4.4.5       Deviation from Test Standard       26         4.4.6       EUT Operating Conditions       26         4.4.7       Test Results       26         4.5       Power Spectral Density Measurement       27         4.5.1       Limits of Power Spectral Density Measurement       27         4.5.2       Test Setup       27         4.5.3       Test Instruments       27         4.5.4       Test Procedure       27         4.							
4.3.1 Limits of 6 dB Bandwidth Measurement       24         4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27		4.0					
4.3.2 Test Setup       24         4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27		4.3					
4.3.3 Test Instruments       24         4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27          4.5.6 EUT Operating Condition       27							
4.3.4 Test Procedure       24         4.3.5 Deviation fromTest Standard       24         4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27			·				
4.3.6 EUT Operating Conditions       24         4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.3.7 Test Result       25         4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.4 Conducted Output Power Measurement       26         4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27			,				
4.4.1 Limits of Conducted Output Power Measurement       26         4.4.2 Test Setup       26         4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.4.2 Test Setup		4.4					
4.4.3 Test Instruments       26         4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27			·				
4.4.4 Test Procedures       26         4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27			·				
4.4.5 Deviation from Test Standard       26         4.4.6 EUT Operating Conditions       26         4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.4.7 Test Results       26         4.5 Power Spectral Density Measurement       27         4.5.1 Limits of Power Spectral Density Measurement       27         4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27							
4.5       Power Spectral Density Measurement       27         4.5.1       Limits of Power Spectral Density Measurement       27         4.5.2       Test Setup       27         4.5.3       Test Instruments       27         4.5.4       Test Procedure       27         4.5.5       Deviation from Test Standard       27         4.5.6       EUT Operating Condition       27			4.4.6 EUT Operating Conditions	26			
4.5.1 Limits of Power Spectral Density Measurement274.5.2 Test Setup274.5.3 Test Instruments274.5.4 Test Procedure274.5.5 Deviation from Test Standard274.5.6 EUT Operating Condition27							
4.5.2 Test Setup       27         4.5.3 Test Instruments       27         4.5.4 Test Procedure       27         4.5.5 Deviation from Test Standard       27         4.5.6 EUT Operating Condition       27		4.5					
4.5.3 Test Instruments274.5.4 Test Procedure274.5.5 Deviation from Test Standard274.5.6 EUT Operating Condition27			· · · · · · · · · · · · · · · · · · ·				
4.5.4 Test Procedure274.5.5 Deviation from Test Standard274.5.6 EUT Operating Condition27			·				
4.5.5 Deviation from Test Standard							
4.5.6 EUT Operating Condition							
			·				



4.6 Conducted Out of Band Emission Measurement	29
4.6.3 Test Instruments	29
4.6.4 Test Procedure	29
4.6.5 Deviation from Test Standard	29
4.6.6 EUT Operating Condition	29
4.6.7 TEST RESULTS	
5 Pictures of Test Arrangements	32
Appendix – Information on the Testing Laboratories	33
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### **Release Control Record**

Issue No.	Description	Date Issued
RF151221C02-7	Original Release	Feb. 25, 2016

Report No.: RF151221C02-7 Page No. 4 / 33 Report Format Version: 6.1.1



### 1 Certificate of Conformity

Product: Smartphone

Brand: HTC

Test Model: 2PS6500

Sample Status: Production Unit

**Applicant:** HTC Corporation

**Test Date:** Jan. 20, 2016 ~ Feb. 03, 2016

**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Ivonne Wu / Supervisor

Approved by : , Date: Feb. 25, 2016

Stanley Wu / Assistant Manager



### 2 Summary of Test Results

	47 CFR FCC Part 15, Subpart C (Section 15.247)								
FCC Clause	Test Item	Result	Remarks						
15.207 AC Power Conducted Emission		Pass	Meet the requirement of limit.  Minimum passing margin is -15.89 dB at 0.15391 MHz.						
15.205 & 209	15.205 & 209 Radiated Emissions		Meet the requirement of limit.  Minimum passing margin is -12.47 dB at 2498 MHz.						
15.247(d)	Band Edge Measurement	Pass	Meet the requirement of limit.						
15.247(d) Antenna Port Emission		Pass	Meet the requirement of limit.						
15.247(a)(2) 6 dB Bandwidth		Pass	Meet the requirement of limit.						
15.247(b) Conducted power		Pass	Meet the requirement of limit.						
15.247(e) Power Spectral Density		Pass	Meet the requirement of limit.						
15.203 Antenna Requirement		Pass	No antenna connector is used.						

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Padiated Emissions up to 1 CHz	30 MHz ~ 200 MHz	2.0153 dB
Radiated Emissions up to 1 GHz	200 MHz ~1000 MHz	2.0224 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	1.0121 dB
naulateu Emissions above 1 GHZ	18 GHz ~ 40 GHz	1.1508 dB

### 2.2 Modification Record

There were no modifications required for compliance.

Report No.: RF151221C02-7 Page No. 6 / 33 Report Format Version: 6.1.1



### 3 General Information

## 3.1 General Description of EUT

Product	Smartphone
Brand	HTC
Test Model	2PS6500
Status of EUT	Production Unit
Power Supply Rating	5.0 Vdc (adapter or host equipment) 3.85 Vdc (Li-ion battery)
Modulation Type	GFSK
Transfer Rate	1 Mbps
Operating Frequency	2402 ~ 2480 MHz
Number of Channel	40
Output Power	3.532 mW
Antenna Type	PIFA antenna with -2 dBi gain
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

#### Note:

- 1. The EUT's accessories list refers to Ext. Pho.
- 2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

Report No.: RF151221C02-7 Page No. 7 / 33 Report Format Version: 6.1.1



# 3.2 Description of Test Modes

40 channels are provided to this EUT:

Channel	Freq. (MHz)						
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480



#### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure		Applic	able To		B
Mode	RE≥1G	RE<1G	PLC	APCM	Description
-	V	V	V	V	-

Where RE≥1G: Radiated Emission above 1 GHz RE<

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

NOTE: "-"means no effect.

#### Radiated Emission Test (Above 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Available Channel		Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	1

#### Radiated Emission Test (Below 1 GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0	GFSK	1

### **Power Line Conducted Emission Test:**

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
 Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type	Data Rate (Mbps)	
-	0 to 39	0	GFSK	1	

Report No.: RF151221C02-7 Page No. 9 / 33 Report Format Version: 6.1.1



### **Antenna Port Conducted Measurement:**

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Available Channel		Tested Channel	Modulation Type	Data Rate (Mbps)
-	0 to 39	0, 19, 39	GFSK	1

## **Test Condition:**

Applicable To	Environmental Conditions	Input Power	Tested by		
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee		
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Karl Lee		
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian		
АРСМ	25 deg. C, 65 % RH	3.85 Vdc	Luke Chen		

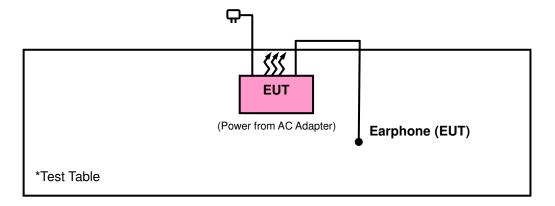
Report No.: RF151221C02-7 Page No. 10 / 33 Report Format Version: 6.1.1



### 3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

### 3.3.1 Configuration of System under Test



### 3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

## FCC Part 15, Subpart C (15.247) 558074 D01 DTS Meas Guidance v03r04

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

**NOTE:** The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

Report No.: RF151221C02-7 Page No. 11 / 33 Report Format Version: 6.1.1



### 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (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

#### NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Report No.: RF151221C02-7 Page No. 12 / 33 Report Format Version: 6.1.1



### 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent Technologies	N9038A	MY52260177	May 19, 2015	May 18, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna ETS-Lindgren	3117	00143293	Jan. 04, 2016	Jan. 03, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Jan. 04, 2016	Jan. 03, 2017
Bluetooth Tester	CBT	100980	Apr. 27, 2015	Apr. 26, 2017
Loop Antenna	EM-6879	269	Jul. 31, 2015	Jul. 30, 2016
Agilent Communications Tester-Wireless	8960 Series 10	MY53201073	Jul. 03, 2015	Jul. 02, 2017
Preamplifier Agilent	310N	187226	Jun. 29, 2015	Jun. 28, 2016
Preamplifier Agilent	83017A	MY39501357	Jun. 29, 2015	Jun. 28, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable ETS-LINDGREN	5D-FB	Cable-CH1-01(R FC-SMS-100-SM S-120+RFC-SMS -100-SMS-400)	Jun. 27, 2015	Jun. 26, 2016
RF signal cable ETS-LINDGREN	8D-FB	Cable-CH1-02(R FC-SMS-100-SM S-24)	Jun. 27, 2015	Jun. 26, 2016
Software BV ADT	E3 8.130425b	NA	NA	NA
Antenna Tower MF	NA	NA	NA	NA
Turn Table MF	NA	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HsinTien Chamber 1.
- 3. The horn antenna and preamplifier (model: 83017A) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 149147.
- 5. The IC Site Registration No. is IC7450I-1.

Report No.: RF151221C02-7 Page No. 13 / 33 Report Format Version: 6.1.1



### 4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) for Average detection (AV) at frequency above 1 GHz.
- 5. All modes of operation were investigated and the worst-case emissions are reported.

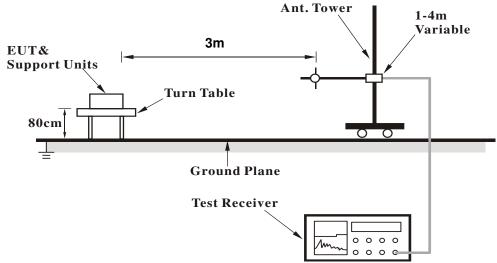
No deviation.

Report No.: RF151221C02-7 Page No. 14 / 33 Report Format Version: 6.1.1

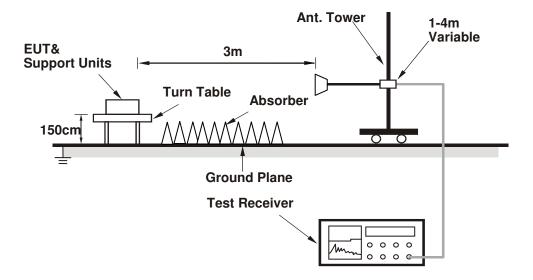


### 4.1.5 Test Set Up

## <Frequency Range below 1 GHz>



## <Frequency Range above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



### 4.1.7 Test Results

### **ABOVE 1 GHz DATA:**

<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 0	Frequency Range	1 GHz ~ 25 GHz		
Input Power	120 Vac, 60 Hz		Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

		An	tennal Po	laritv & T	est Dista	nce: Horiz	ontal at 3	3 m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2338	41.03	39.48	54	-12.97	31.74	5.33	35.52	110	5	Average
2338	55.23	53.68	74	-18.77	31.74	5.33	35.52	110	5	Peak
2402	97.94	96.21			31.8	5.4	35.47	110	5	Average
2402	98.8	97.07			31.8	5.4	35.47	110	5	Peak
2484	41.51	39.55	54	-12.49	31.88	5.5	35.42	110	5	Average
2484	54.96	53	74	-19.04	31.88	5.5	35.42	110	5	Peak
		А	ntennal P	olarity &	<b>Test Dist</b>	ance: Ver	tical at 3	m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2380	40.92	39.26	54	-13.08	31.78	5.37	35.49	323	356	Average
2380	56.42	54.76	74	-17.58	31.78	5.37	35.49	323	356	Peak
2402	96.73	95			31.8	5.4	35.47	323	356	Average
2402	97.69	95.96			31.8	5.4	35.47	323	356	Peak
2498	41.53	39.51	54	-12.47	31.9	5.53	35.41	323	356	Average
2498	55.95	53.93	74	-18.05	31.9	5.53	35.41	323	356	Peak

#### Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level – Limit value
- 2. 2402 MHz: Fundamental frequency.

Report No.: RF151221C02-7 Page No. 16 / 33 Report Format Version: 6.1.1



<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 19	Frequency Range 1 GHz ~ 25 GHz			
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

		A	towns! Do	lavitu O T	ast Dista					
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2380	40.97	39.31	54	-13.03	31.78	5.37	35.49	108	40	Average
2380	55.44	53.78	74	-18.56	31.78	5.37	35.49	108	40	Peak
2440	98.88	97.03			31.85	5.46	35.46	108	40	Average
2440	99.8	97.95			31.85	5.46	35.46	108	40	Peak
2500	41.38	39.36	54	-12.62	31.9	5.53	35.41	108	40	Average
2500	55.83	53.81	74	-18.17	31.9	5.53	35.41	108	40	Peak
		Α	ntennal P	olarity &	Test Dist	ance: Ver	tical at 3	m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2364	40.78	39.15	54	-13.22	31.76	5.37	35.5	102	351	Average
2364	56.31	54.68	74	-17.69	31.76	5.37	35.5	102	351	Peak
2440	97.66	95.81			31.85	5.46	35.46	102	351	Average
2440	98.66	96.81			31.85	5.46	35.46	102	351	Peak
2486	41.29	39.3	54	-12.71	31.88	5.53	35.42	102	351	Average
2486	56.36	54.37	74	-17.64	31.88	5.53	35.42	102	351	Peak

### Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level - Limit value
- 2. 2440 MHz: Fundamental frequency.

Report No.: RF151221C02-7 Page No. 17 / 33 Report Format Version: 6.1.1



<b>EUT Test Condition</b>		Measurement Detail			
Channel	Channel 39	Frequency Range 1 GHz ~ 25 GHz			
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)		
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee		

	Antennal Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2340	40.78	39.21	54	-13.22	31.74	5.33	35.5	106	11	Average	
2340	55.69	54.12	74	-18.31	31.74	5.33	35.5	106	11	Peak	
2480	95.51	93.55			31.88	5.5	35.42	106	11	Average	
2480	96.44	94.48			31.88	5.5	35.42	106	11	Peak	
2500	41.42	39.4	54	-12.58	31.9	5.53	35.41	106	11	Average	
2500	56.1	54.08	74	-17.9	31.9	5.53	35.41	106	11	Peak	
		А	ntennal P	olarity &	Test Dist	ance: Ver	tical at 3	m			
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark	
2342	40.89	39.32	54	-13.11	31.74	5.33	35.5	102	351	Average	
2342	56.1	54.53	74	-17.9	31.74	5.33	35.5	102	351	Peak	
2480	94.56	92.6			31.88	5.5	35.42	102	351	Average	
2480	95.03	93.07			31.88	5.5	35.42	102	351	Peak	
2498	41.28	39.26	54	-12.72	31.9	5.53	35.41	102	351	Average	
2498	56.08	54.06	74	-17.92	31.9	5.53	35.41	102	351	Peak	

#### Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss Preamp Factor Margin value = Emission level - Limit value
- 2. 2480 MHz: Fundamental frequency.

Report No.: RF151221C02-7 Page No. 18 / 33 Report Format Version: 6.1.1



### 9 kHz ~ 30 MHz DATA:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

#### 30 MHz ~ 1 GHz WORST-CASE DATA:

<b>EUT Test Condition</b>		Measurement Detail				
Channel	Channel 0	Frequency Range 30 MHz ~ 1 GHz				
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)			
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Karl Lee			

	Antennal Polarity & Test Distance: Horizontal at 3 m									
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
100.74	24.54	45.84	43.5	-18.96	9.68	1.28	32.26	147	310	Peak
159.6	30.14	50.15	43.5	-13.36	10.74	1.52	32.27	165	120	Peak
196.05	30.95	50.94	43.5	-12.55	10.68	1.61	32.28	145	281	Peak
437.9	18.32	30.13	46	-27.68	17.86	2.49	32.16	123	128	Peak
642.3	23.14	30.21	46	-22.86	22.1	2.99	32.16	164	210	Peak
894.3	27.45	30.52	46	-18.55	24.96	3.49	31.52	194	142	Peak
		Α	ntennal P	olarity &	Test Dist	ance: Ver	tical at 3	m		
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
64.29	23.17	47.14	40	-16.83	7.36	0.9	32.23	134	120	Peak
109.11	20.5	42.05	43.5	-23	9.42	1.28	32.25	169	314	Peak

10.4

18.54

23.18

26.2

1.61

2.56

3.05

3.62

32.25

32.13

32.13

31.2

106

157

169

124

176

120

131

164

Peak

Peak

Peak

Peak

## 938.4 Remarks:

185.79

463.8

668.9

20.91

19.19

24.29

28.14

 Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor Margin value = Emission level – Limit value

-22.59

-26.81

-21.71

-17.86

43.5

46

46

46

41.15

30.22

30.19

29.52

Report No.: RF151221C02-7 Page No. 19 / 33 Report Format Version: 6.1.1



#### 4.2 Conducted Emission Measurement

#### 4.2.1 Limits of Conducted Emission Measurement

Evenuency (MU=)	Conducted Limit (dBuV)				
Frequency (MHz)	Quasi-peak	Average			
0.15 - 0.5	66 - 56	56 - 46			
0.50 - 5.0	56	46			
5.0 - 30.0	60	50			

#### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date Of Calibration	Due Date Of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2015	Feb. 25, 2016
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 24, 2015	Jul. 23, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Shielded Room 1.
- 3. The VCCI Site Registration No. is C-2040.

#### 4.2.3 Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit 20 dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

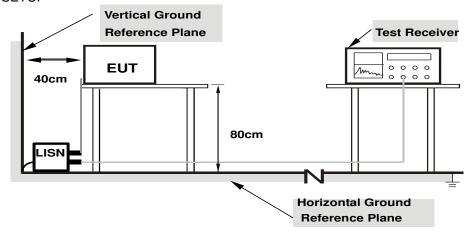
### 4.2.4 Deviation from Test Standard

No deviation.

Report No.: RF151221C02-7 Page No. 20 / 33 Report Format Version: 6.1.1



### 4.2.5 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

## 4.2.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Set the EUT under transmission condition continuously at specific channel frequency.



### 4.2.7 Test Results

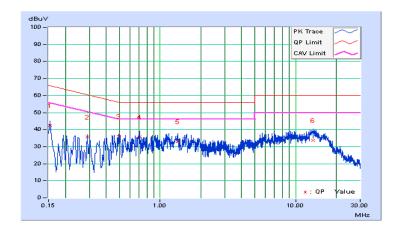
### **CONDUCTED WORST-CASE DATA**

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Toby Tian	Test Date	2016/1/20

	Phase Of Power : Line (L)									
	Frequency	Correction	Readin	g Value	Emission Level		Limit		Margin	
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.93	32.46	29.75	42.39	39.68	65.79	55.79	-23.40	-16.11
2	0.29076	9.99	25.58	14.27	35.57	24.26	60.50	50.50	-24.94	-26.25
3	0.49799	10.04	25.86	13.26	35.90	23.30	56.03	46.03	-20.13	-22.73
4	0.70913	10.07	25.60	9.43	35.67	19.50	56.00	46.00	-20.33	-26.50
5	1.35428	10.13	23.02	11.91	33.15	22.04	56.00	46.00	-22.85	-23.96
6	13.52611	10.74	23.05	15.99	33.79	26.73	60.00	50.00	-26.21	-23.27

#### Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



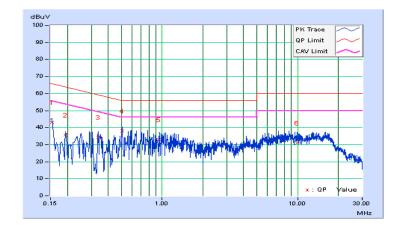


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25℃, 65%RH
Tested by	Toby Tian	Test Date	2016/1/20

	Phase Of Power : Neutral (N)									
	Frequency	Correction	Readin	g Value	Emission Level		Limit		Margin	
No		Factor	(dB	uV)	(dB	uV)	(dB	uV)	(d	B)
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	9.93	33.32	29.97	43.25	39.90	65.79	55.79	-22.54	-15.89
2	0.19305	9.94	25.75	12.44	35.69	22.38	63.90	53.90	-28.22	-31.53
3	0.33750	10.00	24.25	9.81	34.25	19.81	59.26	49.26	-25.01	-29.45
4	0.50581	10.04	28.00	11.97	38.04	22.01	56.00	46.00	-17.96	-23.99
5	0.95155	10.10	22.92	8.59	33.02	18.69	56.00	46.00	-22.98	-27.31
6	9.95628	10.57	20.55	11.92	31.12	22.49	60.00	50.00	-28.88	-27.51

#### Remarks:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value



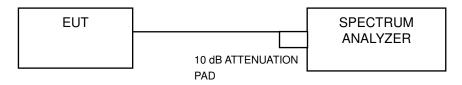


#### 4.3 6 dB Bandwidth Measurement

#### 4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

- a. Set resolution bandwidth (RBW) = 100 kHz
- b. Set the video bandwidth (VBW)  $\geq$  3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

#### 4.3.5 Deviation from Test Standard

No deviation.

### 4.3.6 EUT Operating Conditions

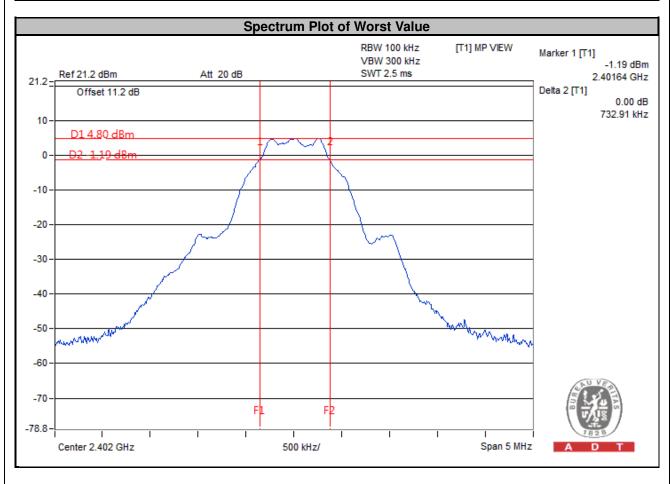
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF151221C02-7 Page No. 24 / 33 Report Format Version: 6.1.1



### 4.3.7 Test Result

Channel	Frequency (MHz)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	732.91	0.5	Pass
19	2440	729.61	0.5	Pass
39	2480	728.91	0.5	Pass



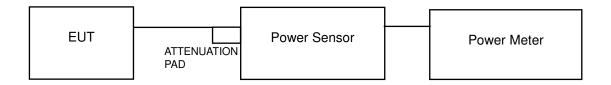


### 4.4 Conducted Output Power Measurement

#### 4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt (30 dBm)

#### 4.4.2 Test Setup



### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.4.4 Test Procedures

A peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average power sensor. Record the power level.

### 4.4.5 Deviation from Test Standard

No deviation.

### 4.4.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.4.7 Test Results

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
0	2402	3.532	5.48	30	Pass
19	2440	3.483	5.42	30	Pass
39	2480	2.541	4.05	30	Pass

Report No.: RF151221C02-7 Page No. 26 / 33 Report Format Version: 6.1.1

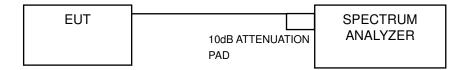


### 4.5 Power Spectral Density Measurement

### 4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm.

#### 4.5.2 Test Setup



#### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.5.4 Test Procedure

- a. Set the RBW = 3 kHz, VBW =10 kHz, Detector = peak.
- b. Sweep time = auto couple, Trace mode = max hold, allow trace to fully stabilize.
- c. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

### 4.5.5 Deviation from Test Standard

No deviation.

### 4.5.6 EUT Operating Condition

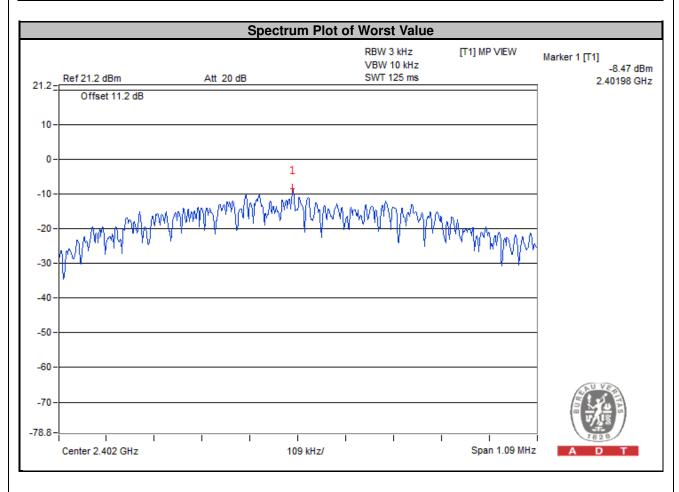
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

Report No.: RF151221C02-7 Page No. 27 / 33 Report Format Version: 6.1.1



### 4.5.7 Test Results

Channel	Frequency (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass / Fail
0	2402	-8.47	8	Pass
19	2440	-8.76	8	Pass
39	2480	-9.96	8	Pass



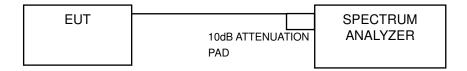


#### 4.6 Conducted Out of Band Emission Measurement

#### 4.6.1 Limits of Conducted Out of Band Emission Measurement

Below –20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

#### 4.6.2 Test Setup



#### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.6.4 Test Procedure

#### **MEASUREMENT PROCEDURE REF**

- 1. Set the RBW = 100 kHz.
- 2. Set the VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep time = auto couple.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

#### **MEASUREMENT PROCEDURE OOBE**

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

#### 4.6.5 Deviation from Test Standard

No deviation.

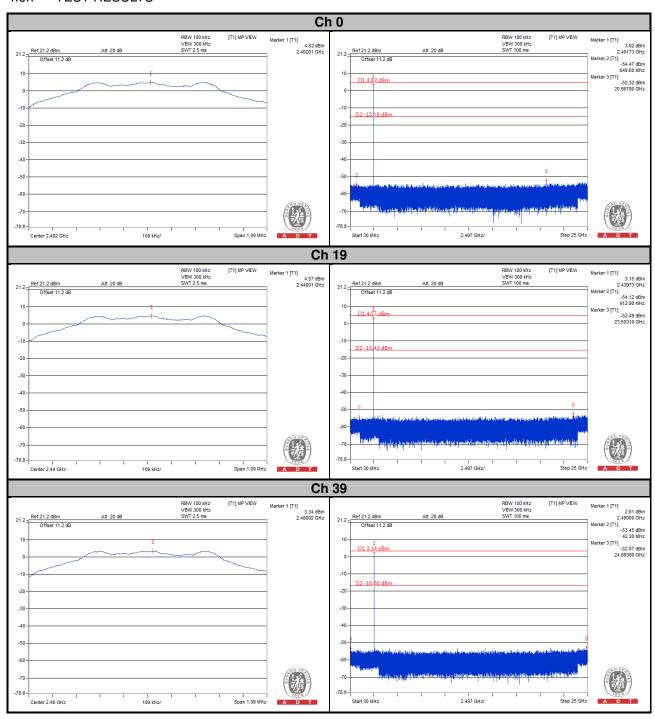
#### 4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

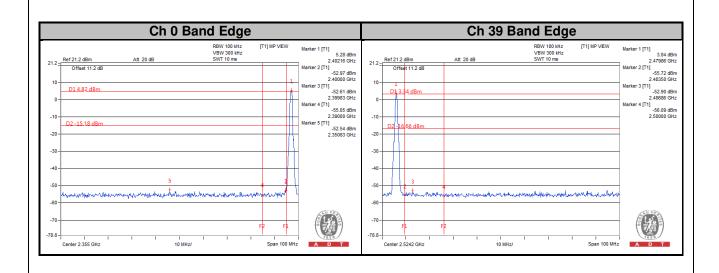
Report No.: RF151221C02-7 Page No. 29 / 33 Report Format Version: 6.1.1



### 4.6.7 TEST RESULTS









5	Pictures of Test Arrangements
	se refer to the attached file (Test Setup Photo).

Report No.: RF151221C02-7 Page No. 32 / 33 Report Format Version: 6.1.1



### Appendix - Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab Hsin Chu EMC/RF/Telecom Lab

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Web Site: <a href="mailto:www.bureauveritas-adt.com">www.bureauveritas-adt.com</a>

The address and road map of all our labs can be found in our web site also.

--- END ---

Report No.: RF151221C02-7 Page No. 33 / 33 Report Format Version: 6.1.1