

FCC Test Report (BT-LE)

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FCC ID: TLZ-CM382

Test Model: AW-CM382

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FCC Registration / Designation Number:

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Table of Contents

1 Certificate of Conformity. 5 2 Summary of Test Results. 6 2.1 Measurement Uncertainty 6 3.2 Modification Record 6 3 General Information. 7 3.1 General Description of EUT (BT-LE). 7 3.2 Description of Support Units 8 3.2.1 Test Mode Applicability and Tested Channel Detail. 9 3.3 Description of Support Units 12 3.3.1 Configuration of System under Test 12 3.3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Test Types and Results 14 4.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Endiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Procedures 17 4.1.5 Test Study 18 4.1.5 Test Study 20 4.2.1	R	Release Control Record4						
2.1 Medification Record 6 3 General Information 7 3.1 General Description of EUT (BT-LE) 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 12 3.3.1 Configuration of System under Test 12 3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Linits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Instruments 15 4.1.4 Dest Instruments 15 4.1.5 Test Setup 18 4.1.5 Test Setup 18 4.1.6 Test Setup 18 4.1.7 Test Results 20 4.2.1 Linits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Setup 26<	1	(Certificate of Conformity	. 5				
2.2 Modification Record 6 3 General Information. 7 3.1 General Description of EUT (BT-LE) 7 3.2 Description of Supter Modes 8 3.2.1 Test Mode Applicability and Tested Channel Detail 9 3.3 Description of Suptern under Test 12 3.3.1 Configuration of System under Test 12 3.4 General Description of Applied Standards 13 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Instruments 15 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 20 4.2.1 Test Instruments 25 4.2.2 Test Instruments 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5	2	•	Summary of Test Results	. 6				
3 General Information. 7 3.1 General Description of EUT (BT-LE) 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 12 3.3 Configuration of System under Test 12 3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1.1 Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Procedures 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2.2 Test Instruments 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 68 Bandwidth Measurement		2.1	Measurement Uncertainty	6				
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 12 3.3.1 Configuration of System under Test 12 3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Instruments 15 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Fooddres 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7		2.2	Modification Record	. 6				
3.2.1 Test Mode Applicability and Tested Channel Detail 9 3.2.1 Test Mode Applicability and Tested Channel Detail 9 3.3.1 Configuration of Support Units 12 3.3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Instruments 15 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 26 4.2.3 Test Instruments 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.1 Limits of God Bandwidth Measurement 26 4.2.2 Test Setup 29 4.3.3 Est Instruments 29 4.3.4 Test Results 29	3	(General Information	. 7				
3.2.1 Test Mode Applicability and Tested Channel Detail 9 3.2.1 Test Mode Applicability and Tested Channel Detail 9 3.3.1 Configuration of Support Units 12 3.3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Instruments 15 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 26 4.2.3 Test Instruments 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.1 Limits of God Bandwidth Measurement 26 4.2.2 Test Setup 29 4.3.3 Est Instruments 29 4.3.4 Test Results 29		3.1	General Description of EUT (BT-LE)	7				
3.3.1 Description of Support Units 12 3.3.1 Configuration of System under Test 12 3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Instruments 15 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2.1 Limits of Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Set Setup 26 4.2.6 EUT Operating Conditions 29 4.3.1 Limits of Gold Bandwidth Measurement 29 4.3.2<		3.2	Description of Test Modes	. 8				
3.3.1 Configuration of System under Test 12 3.4 General Description of Applied Standards 13 4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Procedures 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard		-						
3.4 General Description of Applied Standards. 13 4 Test Types and Results. 14 4.1 Radiated Emission and Bandedge Measurement. 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments. 15 4.1.3 Test Procedures. 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup. 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results. 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.1 Itest Results. 20 4.2.2 Test Instruments 25 4.2.3 Test Instruments 25 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup. 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Sesults. 27 4.3 AGB Bandwidth Measurement. 29 4.3.1 Limits of BGB Bandwidth Measurement. <td></td> <td></td> <td></td> <td></td>								
4 Test Types and Results 14 4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Procedures 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 11 dimits of 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 <								
4.1 Radiated Emission and Bandedge Measurement 14 4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Procedures 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.5 Test Setup 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 27 4.3.1 Limits of 60fB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test			·					
4.1.1 Limits of Radiated Emission and Bandedge Measurement 14 4.1.2 Test Instruments 15 4.1.3 Test Procedures 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.1 Initis of Conducted Emission Measurement 25 4.2.1 Initis of Conducted Emission Measurement 25 4.2.1 Initis of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation From Test Standard 26 4.2.5 Test Setup 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Stand	4		••					
4.1.2 Test Instruments 15 4.1.3 Test Procedures. 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup. 18 4.1.6 EUT Operating Conditions. 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement. 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures. 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions. 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement. 29 4.3.1 Limits of 6dB Bandwidth Measurement. 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Procedures 31 4			Radiated Emission and Bandedge Measurement	14				
4.1.3 Test Procedures. 17 4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup. 18 4.1.6 EUT Operating Conditions. 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup. 26 4.2.6 EUT Operating Conditions. 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement. 29 4.3.1 Limits of 6dB Bandwidth Measurement. 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 EUT Operating Conditions. 29 4.3.6 EUT Operating Conditions. 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.5 Deviation from Test Standard 31 <t< td=""><td></td><td></td><td></td><td></td></t<>								
4.1.4 Deviation from Test Standard 18 4.1.5 Test Setup 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.5 Power Spectral Density Measurement 31 4.5.5 P								
4.1.5 Test Setup. 18 4.1.6 EUT Operating Conditions 19 4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup. 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.5 Power Spectral Density Measurement 32 4.5 Pow								
4.1.6 EUT Operating Conditions. 19 4.1.7 Test Results. 20 4.2 Conducted Emission Measurement. 25 4.2.1 Limits of Conducted Emission Measurement. 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures. 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup. 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.5 Deviation from Test Standard 31 4.4.5 Deviation from Standard 31								
4.1.7 Test Results 20 4.2 Conducted Emission Measurement 25 4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Cest Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.5.7 Test Results 32 4.5.9 Power S								
4.2.1 Limits of Conducted Emission Measurement 25 4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6B Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.5.1 Test Results 32 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure								
4.2.2 Test Instruments 25 4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from		• • • • • • • • • • • • • • • • • • • •						
4.2.3 Test Procedures 26 4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.5 Deviation from Test Standard 33 4.5.5 Deviation from Test Standard 33								
4.2.4 Deviation from Test Standard 26 4.2.5 Test Setup. 26 4.2.6 EUT Operating Conditions 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup. 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33								
4.2.5 Test Setup. 26 4.2.6 EUT Operating Conditions. 26 4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement. 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions. 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup. 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.2.6 EUT Operating Conditions. 26 4.2.7 Test Results. 27 4.3 6dB Bandwidth Measurement. 29 4.3.1 Limits of 6dB Bandwidth Measurement. 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions. 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement. 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures. 31 4.4.5 Deviation from Test Standard 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.1 Test Procedure 33 4.5.4 Test Procedure 33								
4.2.7 Test Results 27 4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33 4.5.6 EUT Operating Condition 33 4.5.6 EUT Operating Condition 33 <td></td> <td></td> <td></td> <td></td>								
4.3 6dB Bandwidth Measurement 29 4.3.1 Limits of 6dB Bandwidth Measurement 29 4.3.2 Test Setup 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.1 Test Procedure 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33			· · · · · · · · · · · · · · · · · · ·					
4.3.1 Limits of 6dB Bandwidth Measurement. 29 4.3.2 Test Setup. 29 4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions. 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.5 Power Spectral Density Measurement 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33 4.5.6 EUT Operating Condition 33								
4.3.3 Test Instruments 29 4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33 4.5.6 EUT Operating Condition 33 4.5.6 EUT Operating Condition 33 4.5.6 EUT Operating Condition 33 4.5.7 Test Setup 33 4.5.8 Deviation from Test Standard		4.3.1						
4.3.4 Test Procedure 29 4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33			·					
4.3.5 Deviation from Test Standard 29 4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.3.6 EUT Operating Conditions 29 4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.3.7 Test Result 30 4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.4 Conducted Output Power Measurement 31 4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33			· · · ·					
4.4.1 Limits of Conducted Output Power Measurement 31 4.4.2 Test Setup. 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures. 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions. 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup. 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.4.2 Test Setup 31 4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33			·					
4.4.3 Test Instruments 31 4.4.4 Test Procedures 31 4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.4.5 Deviation from Test Standard 31 4.4.6 EUT Operating Conditions 31 4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.4.6 EUT Operating Conditions. 31 4.4.7 Test Results. 32 4.5 Power Spectral Density Measurement. 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup. 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.4.7 Test Results 32 4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.5 Power Spectral Density Measurement 33 4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33			· · · · · · · · · · · · · · · · · · ·					
4.5.1 Limits of Power Spectral Density Measurement 33 4.5.2 Test Setup 33 4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33								
4.5.2 Test Setup								
4.5.3 Test Instruments 33 4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33			·					
4.5.4 Test Procedure 33 4.5.5 Deviation from Test Standard 33 4.5.6 EUT Operating Condition 33			·					
4.5.5 Deviation from Test Standard334.5.6 EUT Operating Condition33								
4.5.6 EUT Operating Condition								
4.5.7 Test Results								
		4.5.7	Test Results	34				



Conducted Out of Band Emission Measurement	. 35
Limits of Conducted Out of Band Emission Measurement	. 35
Test Setup	. 35
Test Instruments	. 35
Test Procedure	. 35
Test Results	. 36
ctures of Test Arrangements	. 37
lix – Information of the Testing Laboratories	. 38
	Conducted Out of Band Emission Measurement Limits of Conducted Out of Band Emission Measurement Test Setup Test Instruments Test Procedure Deviation from Test Standard EUT Operating Condition Test Results Pictures of Test Arrangements dix – Information of the Testing Laboratories



Release Control Record

Issue No.	Description	Date Issued
RF190527E01-3	Original release.	July 10, 2019



Certificate of Conformity 1

Product: IEEE 802.11 a/b/g/n/ac MAC/baseband/radio and Bluetooth 5.0 Module

Brand: AzureWave

Test Model: AW-CM382

Sample Status: ENGINEERING SAMPLE

Applicant: AzureWave Technologies, Inc.

Test Date: June 11 to 25, 2019

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.

Prepared by: _______, Date: _______, Date: _________, July 10, 2019

July 10, 2019 Approved by : Date:

May Chen / 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 -7.00dB at 0.19687MHz.			
15.205 & 209 & 15.247(d)			Meet the requirement of limit. Minimum passing margin is -1.7dB at 35.03MHz.			
15.247(d)	Antenna Port Emission	PASS	Meet the requirement of limit.			
15.247(a)(2)	6dB 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.			

Note:

Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 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:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.8 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.9 dB
	1GHz ~ 6GHz	5.1 dB
Radiated Emissions above 1 GHz	6GHz ~ 18GHz	4.9 dB
	18GHz ~ 40GHz	5.2 dB

2.2 Modification Record

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT (BT-LE)

Product	IEEE 802.11 a/b/g/n/ac MAC/baseband/radio and Bluetooth 5.0 Module
Brand	AzureWave
Test Model	AW-CM382
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	DC 5V from host equipment
Modulation Type	GFSK
Modulation Technology	DTS
Transfer Rate	Up to 1Mbps
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	40
Output Power	8.035mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. The device of WLAN and Bluetooth technology can't transmit simultaneously, it was used timely shared coexistence technology.

2. The antennas provided to the EUT, please refer to the following table:

Ant. Set	Transmitter Circuit	Antenna Gain (dBi)	Frequency range (GHz ~ GHz)	Antenna Type	Connector Type		
	Chain 0	1	2.4~2.4835	PIFA	None		
4	(Main)	6	5.15~5.85	PIFA	None		
I	Chain 1	1	2.4~2.4835	PIFA	None		
	(Aux)	6	5.15~5.85	PIFA			
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Note: For Bluetooth will fix transmission on Chain 0.

3. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.



3.2 Description of Test Modes

40 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	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		APPLICA	ABLE TO		DESCRIPTION
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
-	√	√	√	√	-

Where

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

The EUT's antenna had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane (below 1GHz) & Z-plane (above 1GHz)

Radiated Emission Test (Above 1GHz):

- 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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	0, 19, 39	GFSK	1

Radiated Emission Test (Below 1GHz):

- 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.

AVAILABLE CHANNEL		TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
	0 to 39	19	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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)
0 to 39	19	GFSK	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.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TYPE	DATA RATE (Mbps)	
0 to 39	0, 19, 39	GFSK	1	

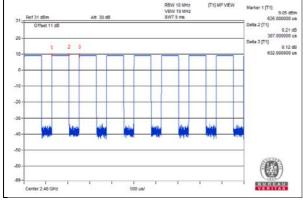
Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	22deg. C, 65%RH	120Vac, 60Hz	Adair Peng
RE<1G	RE<1G 20deg. C, 64%RH		Ryan Du
PLC	PLC 23deg. C, 75%RH		Andy Ho
APCM	APCM 23deg. C, 67%RH		Jyunchun Lin



Duty Cycle of Test Signal

<u>Duty cycle = 0.387 ms/0.632 ms = 0.612</u>, <u>Duty factor = $10 * \log(1/\text{Duty cycle}) = 2.13$ </u>





3.3 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.

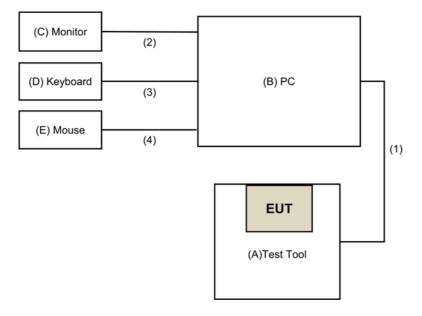
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α.	Test Tool	AzureWave	NA	NA	NA	Supplied by client
B.	PC	lenovo	NA	NA	NA	Provided by Lab
C.	Monitor	Panasonic	TH-L26K10W	9540684	NA	Provided by Lab
D.	Keyboard	SGI	SK-2502U	M990511754	GYUR58SK	Provided by Lab
E.	Mouse	DEXIN	A2U800A	71001832	NIYA2U800A	Provided by Lab

Note:

^{1.} All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.7	Yes	0	Provided by Lab
2.	VGA Cable	1	1.8	Yes	2	Provided by Lab
3.	USB Cable	1	1.5	Yes	0	Provided by Lab
4.	USB Cable	1	1.8	Yes	0	Provided by Lab

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)** KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10-2013 All test items have been performed and recorded as per the above standards.



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 20dB below the highest level of the desired power:

povior.		
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 1000MHz, 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 20dB under any condition of modulation.



4.1.2 Test Instruments

For Radiated Emission Test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 05, 2018	July 04, 2019
Pre-Amplifier EMCI	EMC001340	980142	Jan. 25, 2019	Jan. 24, 2020
Loop Antenna Electro-Metrics	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
RF Cable	NA	LOOPCAB-001	Jan. 14, 2019	Jan. 13, 2020
RF Cable	NA	LOOPCAB-002	Jan. 14, 2019	Jan. 13, 2020
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Oct. 30, 2018	Oct. 29, 2019
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 22, 2018	Nov. 21, 2019
RF Cable	8D	966-4-1	Mar. 19, 2019	Mar. 18, 2020
RF Cable	8D	966-4-2	Mar. 19, 2019	Mar. 18, 2020
RF Cable	8D	966-4-3	Mar. 19, 2019	Mar. 18, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Sep. 27, 2018	Sep. 26, 2019
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980385	Aug. 16, 2018	Aug. 15, 2019
RF Cable	EMC104-SM-SM-1200	160923	Jan. 28, 2019	Jan. 27, 2020
RF Cable	104 RF cable	131215	Jan. 10, 2019	Jan. 09, 2020
RF Cable	EMC104-SM-SM-6000	180418	May 03, 2019	May 02, 2020
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	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 966 Chamber No. 4.
- 3. Loop antenna was used for all emissions below 30 MHz.
- 4. Tested Date: June 21 to 25, 2019



For Other Test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	June 20, 2018	June 19, 2019
Power meter Anritsu	ML2495A	1014008	May 13, 2019	May 12, 2020
Power sensor Anritsu	MA2411B	0917122	May 13, 2019	May 12, 2020

NOTE:

- 1. 1. The test was performed in Oven room 2.
- 2. 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 4. Tested Date: June 18, 2019



4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case 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.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detect 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:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 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 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

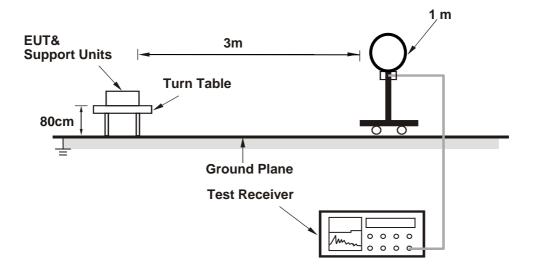


4.1.4 Deviation from Test Standard

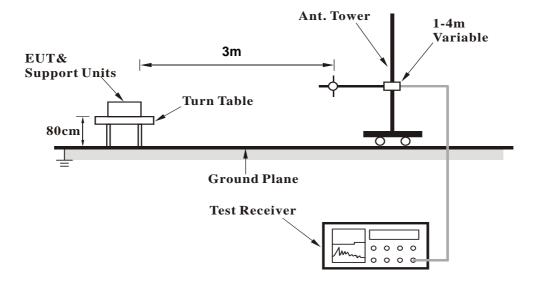
No deviation.

4.1.5 Test Setup

For Radiated emission below 30MHz

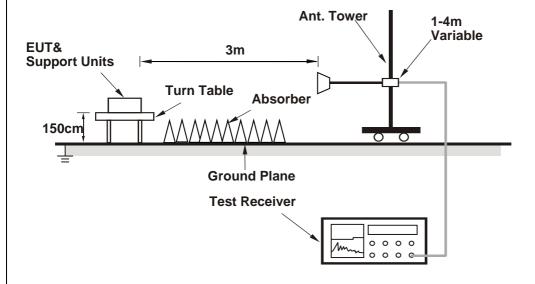


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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. Controlling software (Blue Tool [1.8.9.3]) has been activated to set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

Above 1GHz Data:

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.9 PK	74.0	-17.1	1.52 H	211	58.5	-1.6
2	2390.00	46.8 AV	54.0	-7.2	1.52 H	211	48.4	-1.6
3	*2402.00	103.9 PK			1.52 H	211	105.6	-1.7
4	*2402.00	101.9 AV			1.52 H	211	103.6	-1.7
5	4804.00	36.2 PK	74.0	-37.8	1.46 H	155	33.9	2.3
6	4804.00	24.4 AV	54.0	-29.6	1.46 H	155	22.1	2.3
		ANTENNA	POLARITY	4 TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	3.05 V	249	60.1	-1.6
2	2390.00	47.7 AV	54.0	-6.3	3.05 V	249	49.3	-1.6
3	*2402.00	104.5 PK			3.05 V	249	106.2	-1.7
4	*2402.00	102.7 AV			3.05 V	249	104.4	-1.7
5	4804.00	36.7 PK	74.0	-37.3	1.43 V	63	34.4	2.3
6	4804.00	25.8 AV	54.0	-28.2	1.43 V	63	23.5	2.3

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 19	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

								1
	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M							
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	103.9 PK			1.61 H	213	105.7	-1.8
2	*2440.00	102.1 AV			1.61 H	213	103.9	-1.8
3	4880.00	36.3 PK	74.0	-37.7	1.55 H	169	33.9	2.4
4	4880.00	25.5 AV	54.0	-28.5	1.55 H	169	23.1	2.4
5	7320.00	37.0 PK	74.0	-37.0	1.41 H	63	27.8	9.2
6	7320.00	27.1 AV	54.0	-26.9	1.41 H	63	17.9	9.2
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2440.00	105.1 PK			3.23 V	255	106.9	-1.8
2	*2440.00	103.5 AV			3.23 V	255	105.3	-1.8
3	4880.00	36.9 PK	74.0	-37.1	1.33 V	59	34.5	2.4
4	4880.00	26.0 AV	54.0	-28.0	1.33 V	59	23.6	2.4
5	7320.00	37.5 PK	74.0	-36.5	1.23 V	337	28.3	9.2
6	7320.00	27.8 AV	54.0	-26.2	1.23 V	337	18.6	9.2

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.



CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

NO. (MHz) (BuV/m) (BuV		QUENUT I	7.1102	112 200112					<u> </u>
NO. FREQ. CORRECTION LEVEL (dBuV/m) (dB) MARGIN			ΔΝΤΕΝΝΔ	POLARITY A	R TEST DIS	TANCE: HO	RIZONTAL	ΔТЗМ	
2 *2480.00 102.2 AV 1.66 H 214 104.0 -1.8 3 2483.50 56.5 PK 74.0 -17.5 1.66 H 214 58.2 -1.7 4 2483.50 46.1 AV 54.0 -7.9 1.66 H 214 47.8 -1.7 5 4960.00 36.4 PK 74.0 -37.6 1.49 H 173 33.7 2.7 6 4960.00 25.6 AV 54.0 -28.4 1.49 H 173 22.9 2.7 7 7440.00 36.4 PK 74.0 -37.6 1.44 H 67 26.9 9.5 8 7440.00 26.6 AV 54.0 -27.4 1.44 H 67 17.1 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M NO. (MHz)	NO.	· ·	EMISSION LEVEL	LIMIT	MARGIN	ANTENNA HEIGHT	TABLE ANGLE	RAW VALUE	
3 2483.50 56.5 PK 74.0 -17.5 1.66 H 214 58.2 -1.7 4 2483.50 46.1 AV 54.0 -7.9 1.66 H 214 47.8 -1.7 5 4960.00 36.4 PK 74.0 -37.6 1.49 H 173 33.7 2.7 6 4960.00 25.6 AV 54.0 -28.4 1.49 H 173 22.9 2.7 7 7440.00 36.4 PK 74.0 -37.6 1.44 H 67 26.9 9.5 8 7440.00 26.6 AV 54.0 -27.4 1.44 H 67 17.1 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE ANGLE (Degree) RAW VALUE (dBwV) CORRECTION (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 <td>1</td> <td>*2480.00</td> <td>103.9 PK</td> <td></td> <td></td> <td>1.66 H</td> <td>214</td> <td>105.7</td> <td>-1.8</td>	1	*2480.00	103.9 PK			1.66 H	214	105.7	-1.8
4 2483.50 46.1 AV 54.0 -7.9 1.66 H 214 47.8 -1.7 5 4960.00 36.4 PK 74.0 -37.6 1.49 H 173 33.7 2.7 6 4960.00 25.6 AV 54.0 -28.4 1.49 H 173 22.9 2.7 7 7440.00 36.4 PK 74.0 -37.6 1.44 H 67 26.9 9.5 8 7440.00 26.6 AV 54.0 -27.4 1.44 H 67 17.1 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M HEIGHT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE ANGLE (Degree) RAW VALUE (dBwV) CORRECTION FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 <	2	*2480.00	102.2 AV			1.66 H	214	104.0	-1.8
5 4960.00 36.4 PK 74.0 -37.6 1.49 H 173 33.7 2.7 6 4960.00 25.6 AV 54.0 -28.4 1.49 H 173 22.9 2.7 7 7440.00 36.4 PK 74.0 -37.6 1.44 H 67 26.9 9.5 8 7440.00 26.6 AV 54.0 -27.4 1.44 H 67 17.1 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (Degree) RAW VALUE (dBuV) CORRECTION FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7	3	2483.50	56.5 PK	74.0	-17.5	1.66 H	214	58.2	-1.7
6 4960.00 25.6 AV 54.0 -28.4 1.49 H 173 22.9 2.7 7 7440.00 36.4 PK 74.0 -37.6 1.44 H 67 26.9 9.5 8 7440.00 26.6 AV 54.0 -27.4 1.44 H 67 17.1 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) TABLE ANGLE (Degree) RAW VALUE (dBuV) CORRECTION FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 59.9 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7	4	2483.50	46.1 AV	54.0	-7.9	1.66 H	214	47.8	-1.7
7 7440.00 36.4 PK 74.0 -37.6 1.44 H 67 26.9 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M NO. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE ANGLE (Degree) RAW VALUE (dBuV) CORRECTION FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340	5	4960.00	36.4 PK	74.0	-37.6	1.49 H	173	33.7	2.7
8 7440.00 26.6 AV 54.0 -27.4 1.44 H 67 17.1 9.5 ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (M) TABLE ANGLE (Degree) RAW VALUE (dBuV) CORRECTION FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340	6	4960.00	25.6 AV	54.0	-28.4	1.49 H	173	22.9	2.7
NO. FREQ. (MHz) (MHz) (BuV/m) (BuV	7	7440.00	36.4 PK	74.0	-37.6	1.44 H	67	26.9	9.5
NO. FREQ. (MHz) EMISSION LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) ANTENNA HEIGHT (m) TABLE ANGLE (Degree) RAW VALUE (dBuV) CORRECTION FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	8	7440.00	26.6 AV	54.0	-27.4	1.44 H	67	17.1	9.5
NO. FREQ. (MHz) LEVEL (dBuV/m) LIMIT (dBuV/m) MARGIN (dB) HEIGHT (m) ANGLE (Degree) VALUE (dBuV) FACTOR (dB/m) 1 *2480.00 104.4 PK 3.33 V 255 106.2 -1.8 2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5			ANTENNA	POLARITY	& TEST D	ISTANCE: V	ERTICAL A	T 3 M	
2 *2480.00 102.4 AV 3.33 V 255 104.2 -1.8 3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	NO.	· ·	LEVEL			HEIGHT	ANGLE	VALUE	
3 2483.50 58.2 PK 74.0 -15.8 3.33 V 255 59.9 -1.7 4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	1	*2480.00	104.4 PK			3.33 V	255	106.2	-1.8
4 2483.50 47.5 AV 54.0 -6.5 3.33 V 255 49.2 -1.7 5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	2	*2480.00	102.4 AV			3.33 V	255	104.2	-1.8
5 4960.00 36.8 PK 74.0 -37.2 1.31 V 53 34.1 2.7 6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	3	2483.50	58.2 PK	74.0	-15.8	3.33 V	255	59.9	-1.7
6 4960.00 25.7 AV 54.0 -28.3 1.31 V 53 23.0 2.7 7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	4	2483.50	47.5 AV	54.0	-6.5	3.33 V	255	49.2	-1.7
7 7440.00 37.2 PK 74.0 -36.8 1.20 V 340 27.7 9.5	5	4960.00	36.8 PK	74.0	-37.2	1.31 V	53	34.1	2.7
	6	4960.00	25.7 AV	54.0	-28.3	1.31 V	53	23.0	2.7
8 7440.00 27.5 AV 54.0 -26.5 1.20 V 340 18.0 9.5	7	7440.00	37.2 PK	74.0	-36.8	1.20 V	340	27.7	9.5
	8	7440.00	27.5 AV	54.0	-26.5	1.20 V	340	18.0	9.5

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

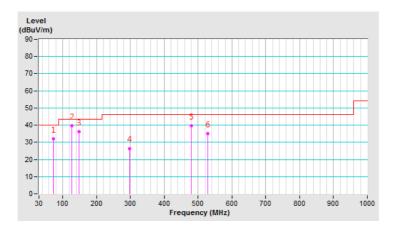


Below 1GHz Data:

CHANNEL	TX Channel 19	DETECTOR	Overi Beek (OB)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	72.01	31.9 QP	40.0	-8.1	2.00 H	244	42.8	-10.9	
2	127.87	39.7 QP	43.5	-3.8	2.50 H	144	48.9	-9.2	
3	148.02	36.1 QP	43.5	-7.4	1.50 H	185	44.1	-8.0	
4	298.42	26.5 QP	46.0	-19.5	1.00 H	177	33.5	-7.0	
5	479.95	39.8 QP	46.0	-6.2	1.50 H	177	42.0	-2.2	
6	529.38	34.9 QP	46.0	-11.1	1.00 H	33	36.1	-1.2	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

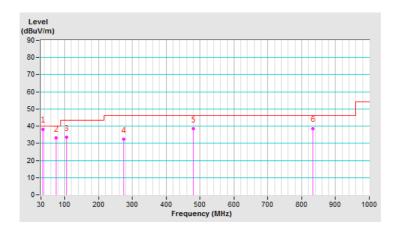




CHANNEL	TX Channel 19	DETECTOR	Ougo: Dook (OD)
FREQUENCY RANGE	9KHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	35.03	38.3 QP	40.0	-1.7	1.50 V	277	47.6	-9.3	
2	74.96	33.1 QP	40.0	-6.9	1.00 V	199	44.6	-11.5	
3	105.72	33.5 QP	43.5	-10.0	1.00 V	319	44.7	-11.2	
4	273.68	32.5 QP	46.0	-13.5	1.50 V	249	40.3	-7.8	
5	480.06	38.6 QP	46.0	-7.4	1.00 V	149	40.7	-2.1	
6	833.15	38.7 QP	46.0	-7.3	1.50 V	311	33.8	4.9	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.





4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Froguency (MHz)	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				

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2018	Oct. 23, 2019
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 22, 2018	Oct. 21, 2019
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
50 ohms Terminator	N/A	3	Oct. 22, 2018	Oct. 21, 2019
RF Cable	5D-FB	COCCAB-001	Sep. 28, 2018	Sep. 27, 2019
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 14, 2019	Mar. 13, 2020
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

- 1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in Conduction 1.
- 3 Tested Date: June 19, 2019



4.2.3 Test Procedures

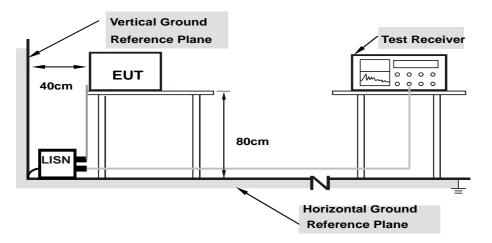
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.



4.2.7 Test Results

Phase Line (L)	Detector Function Quasi-Pea Average (A	ik (QP) / AV)
----------------	---	------------------

	F===	Corr.	Readin	g Value	Emissio	n Level	Lir	nit	Mar	gin
No	Freq.	Factor	[dB	(uV)]	[dB	(uV)]	[dB ((uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.02	30.39	8.06	40.41	18.08	66.00	56.00	-25.59	-37.92
2	0.17344	10.03	32.36	8.93	42.39	18.96	64.79	54.79	-22.40	-35.83
3	0.20078	10.04	37.88	22.68	47.92	32.72	63.58	53.58	-15.66	-20.86
4	0.41953	10.07	29.66	14.60	39.73	24.67	57.46	47.46	-17.73	-22.79
5	12.43359	10.66	22.80	16.80	33.46	27.46	60.00	50.00	-26.54	-22.54
6	24.66016	11.14	31.33	23.78	42.47	34.92	60.00	50.00	-17.53	-15.08
7	0.15000	10.02	30.39	8.06	40.41	18.08	66.00	56.00	-25.59	-37.92

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



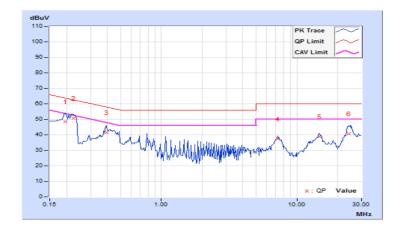


Phase	Neutral (N)	L Delecior Elinchon	Quasi-Peak (QP) / Average (AV)

	Eroa	Corr.	Readin	g Value	Emissio	n Level	Lir	nit	Mar	gin
No	Freq.	Factor	[dB	(uV)]	[dB	(uV)]	[dB	(uV)]	(dl	3)
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	9.94	38.68	36.80	48.62	46.74	63.74	53.74	-15.12	-7.00
2	0.22422	9.94	40.73	31.37	50.67	41.31	62.66	52.66	-11.99	-11.35
3	0.39219	9.96	31.45	28.85	41.41	38.81	58.02	48.02	-16.61	-9.21
4	7.24609	10.26	27.00	25.93	37.26	36.19	60.00	50.00	-22.74	-13.81
5	14.78125	10.61	28.14	24.70	38.75	35.31	60.00	50.00	-21.25	-14.69
6	24.08594	10.91	29.69	22.02	40.60	32.93	60.00	50.00	-19.40	-17.07

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



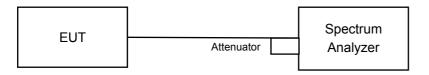


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB 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) = 100kHz
- 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.

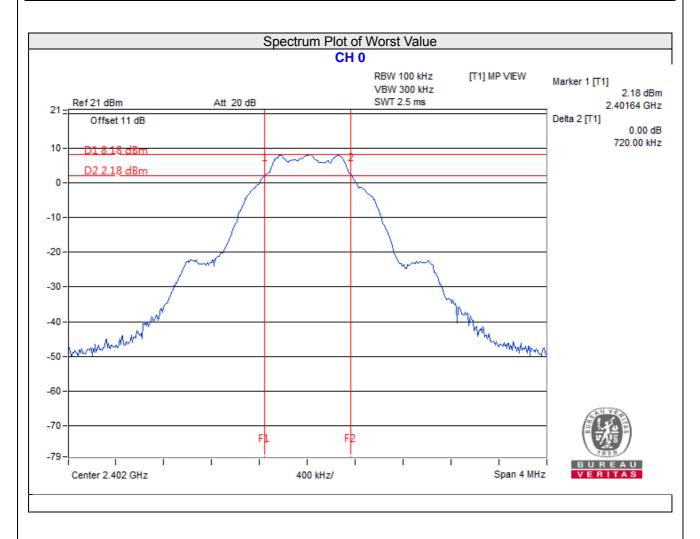
4.3.6 EUT Operating Conditions

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



4.3.7 Test Result

Channel	Channel Frequency (MHz)		Minimum Limit (MHz)	Pass / Fail
0	2402	0.72	0.5	Pass
19	2440	0.72	0.5	Pass
39	2480	0.73	0.5	Pass



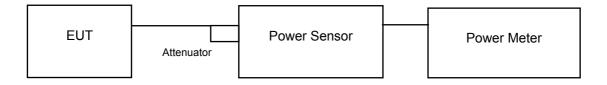


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

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

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

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.



4.4.7 Test Results

FOR PEAK POWER

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
0	2402	7.816	8.93	30.00	Pass
19	2440	8.035	9.05	30.00	Pass
39	2480	7.621	8.82	30.00	Pass

FOR AVERAGE POWER

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
0	2402	6.324	8.01
19	2440	6.546	8.16
39	2480	6.138	7.88



4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm in any 3kHz.

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 analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW ≥ 3 × RBW.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 Deviation from Test Standard

No deviation.

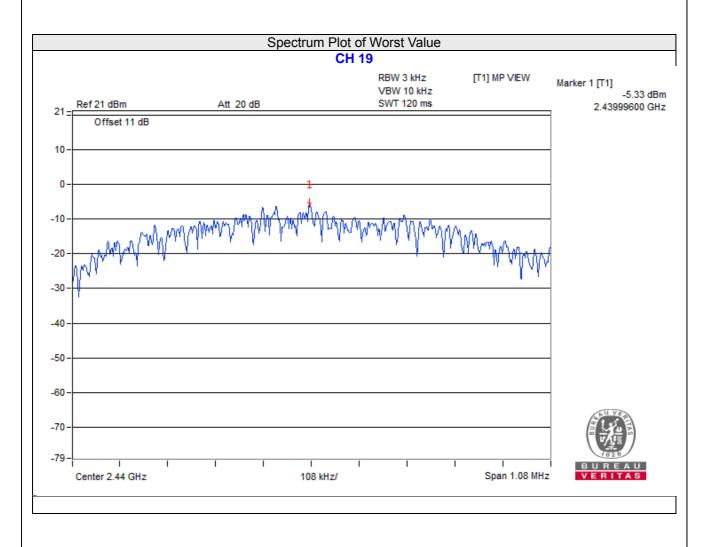
4.5.6 EUT Operating Condition

Same as Item 4.3.6



4.5.7 Test Results

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	2402	-5.69	8	Pass
19	2440	-5.33	8	Pass
39	2480	-5.40	8	Pass



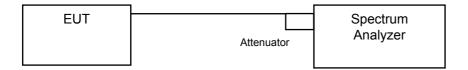


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

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

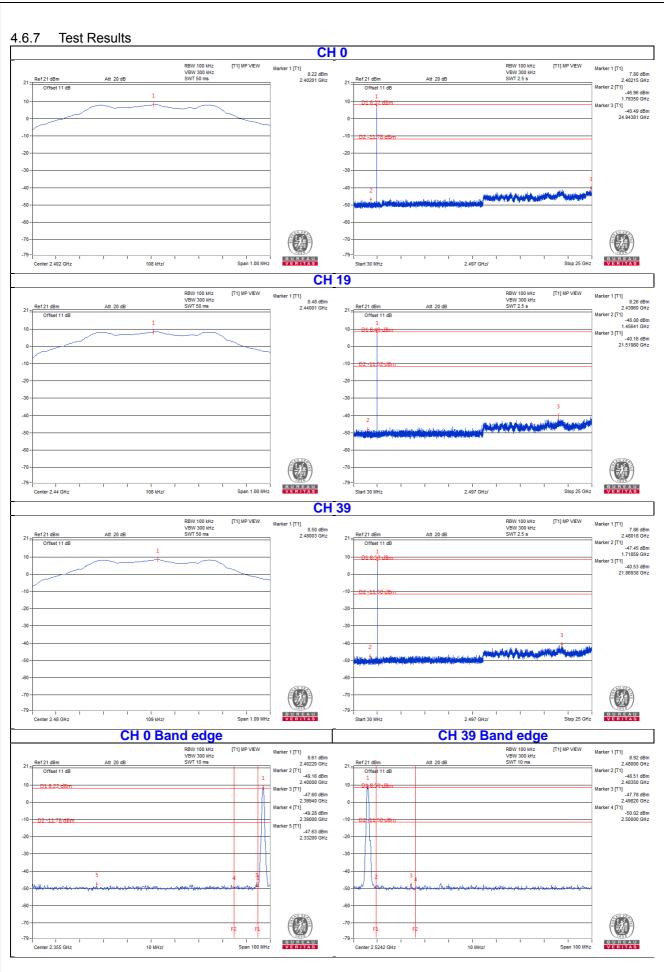
4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

Same as Item 4.3.6







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

 Report No.: RF190527E01-3
 Page No. 37 / 38
 Report Format Version: 6.1.1



Appendix - Information of 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

Hsin Chu EMC/RF/Telecom Lab

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

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

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