

TEST REPORT

Report No.: 8133EU011901W2

Applicant: Autel Intelligent Technology Corp., Ltd.

Address: Floor 2, Caihong Keji Building, 36 Hi-tech North Six

Road, Songpingshan Community, Xili, Nanshan,

Shenzhen, China

Product Name: MaxiFlash VCMI

Model No.: MaxiFlash VCMI

Trademark: AUTEL

FCC ID: WQ8VCMI2121

Test Standard(s): 47 CFR Part 15 Subpart C

Date of Receipt: Oct. 18, 2023

Test Date: Oct. 18, 2023 – Nov. 09, 2023

Date of Issue: Nov. 14, 2023

ISSUED BY:

Prepared by:

SHENZHEN EU TESTING LABORATORY LIMITED

Reviewed and Approved by:

Mikey Zhu/ Engineer

Sally Zhang/ Manager



Page 2 of 35 Report No.: 8133EU011901W2

Revision Record

Report Version	Issued Date	Description	Status
V0 Nov. 14, 2023		Original	Valid



Website: www.eu-test.com



Table of Contents

21 GENERAL INFORMATION 5 2.1 APPLICANT INFORMATION 5 2.2 FACTORY INFORMATION 5 2.4 GENERAL DESCRIPTION OF E.U.T. 5 2.5 TECHNICAL INFORMATION OF E.U.T. 6 3 TEST SUMMARY. 8 3.1 TEST SUMMARY. 8 3.2 TEST VERDICT. 8 3.3 TEST LONFIGURATION. 9 4.1 TEST CONFIGURATION. 9 4.2 TEST CONFIGURATION. 9 4.1 TEST COUPMENT. 9 4.2 TEST EQUIPMENT. 9 4.3 DESCRIPTION OF SUPPORT UNIT 10 4.4 TEST MOBE. 10 4.5 MEASUREMENT UNCERTAINTY. 10 4.6 DEVIATION FROM STANDARDS. 10 4.7 ABRORMALITIES FROM STANDARD CONDITION. 10 5 TEST TITEMS. 11 5.1.1 Test Requirement 11 5.1.2 Antenna Anti-Replacement Construction 11 <th>1</th> <th colspan="3">COVER PAGE1</th>	1	COVER PAGE1		
2.2 MANUFACTURER INFORMATION 5 2.3 FACTORY INFORMATION 5 2.4 GENERAL DESCRIPTION OF E.U.T. 5 2.5 TECHNICAL INFORMATION OF E.U.T. 5 3 TEST SUMMARY 8 8 3.1 TEST SUMMARY 8 8 3.1 TEST STANDARD 8 3.2 TEST VERDICT. 8 8 3.3 TEST VERDICT. 8 8 3.3 TEST LABORATORY 8 8 4 TEST CONFIGURATION 9 4.1 TEST ENVIRONMENT 9 4.2 TEST EQUIPMENT 9 4.2 TEST EQUIPMENT 9 4.3 DESCRIPTION OF SUPPORT UNIT 10 4.4 TEST MODE 10 4.5 MEASUREMENT UNCERTAINTY 10 4.5 MEASUREMENT UNCERTAINTY 10 4.7 ABNORMALTIES FROM STANDARD CONDITION 10 17 ABNORMALTIES FROM STANDARD CONDITION 10 15 TEST ITEMS 11 5.1 TEST REQUIREMENT 11 5.1.1 TEST REQUIREMENT 11 5.1.2 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Anti-Replacement 12 5.2.1 TEST Setup Diagram 12 5.2.2 TEST Setup Diagram 12 5.3.3 TEST Procedure 12 5.3.3 TEST Procedure 12 5.3.3 TEST Procedure 15 5.3.4 TEST Requirement 15 5.3.2 TEST Setup Diagram 15 5.3.4 TEST Requirement 15 5.3.3 TEST Procedure 15 5.3.4 TEST Requirement 15 5.3.4 TEST Requirement 15 5.3.5 TEST Requirement 15 5.3.5 TEST Requirement 15 5.3.5 TEST Requirement 15 5.3.5 TEST Requirement 16 5.4.4 TEST Procedure 17 5.4.4 TEST Procedure 18 5.5.4 TEST Requirement 18 5.5.5 TEST DATE 18 TEST	2	GENE	RAL INFORMATION	. 5
3.1 TEST STANDARD		2.2 2.3 2.4	MANUFACTURER INFORMATIONFACTORY INFORMATION	. 5 . 5 . 5
3.2 TEST VERDICT. 3.3 TEST LABORATORY. 4 TEST CONFIGURATION. 9 4.1 TEST EQUIPMENT. 9 4.2 TEST EQUIPMENT. 9 4.3 DESCRIPTION OF SUPPORT UNIT. 10 4.4 TEST MODE. 10 4.5 MEASUREMENT UNCERTAINTY. 10 4.6 DEVIATION FROM STANDARDS. 10 4.7 ABNORMALITIES FROM STANDARDS. 11 5.1 ANTENNA REQUIREMENT. 11 5.1.1 Test Requirement. 11 5.1.2 Antenna Anti-Replacement Construction. 11 5.1.3 Antenna Gain. 11 5.2 CONDUCTED EMISSION AT AC POWER LINE. 12 5.2.1 Test Requirement. 12 5.2.2 Test Setup Diagram. 12 5.2.3 Test Procedure. 12 5.2.3 Test Procedure. 12 5.3.1 Test Requirement. 15 5.3.2 Test Sequirement. 15 5.3.1 Test Requirement. 16 5.3.2 Test Sequirement. 17 5.3.3 Test Procedure. 18 5.3.4 Test Data. 19 5.4 MAXIMUM CONDUCTED OUTPUT POWER. 16 5.4.1 Test Requirement. 17 5.5.5 POWER SPECTRAL DENSITY. 18 5.6 EMISSIONS IN NON-RESTRICTED FREQUENCE DIAGRAMS. 19 5.6.1 Test Requirement. 18 5.5.2 Test Setup Diagram. 19 5.5.3 Test Procedure. 19 5.5.4 Test Requirement. 19 5.5.5 Test Sequirement. 19 5.5.6 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS (CONDUCTED). 19 5.6.1 Test Requirement. 19 5.6.2 Test Setup Diagram. 18 5.6.3 Test Procedure. 19 5.6.1 Test Requirement. 19 5.6.2 Test Setup Diagram. 18 5.6.3 Test Procedure. 19 5.6.4 Test Data. 19 5.6.1 Test Requirement. 19 5.6.2 Test Setup Diagram. 19 5.6.1 Test Requirement. 19 5.6.2 Test Setup Diagram. 19 5.6.3 Test Procedure. 19 5.6.4 Test Data. 19 5.6.6 MISSIONS IN NON-RESTRICTED FREQUENCY BANDS (CONDUCTED). 19 5.6.1 Test Requirement. 19 5.6.2 Test Setup Diagram. 19 5.6.3 Test Procedure. 20 5.6.4 Test Data. 20 20 20 21 21 22 23 24 25 25 25 25 25 25 25 25 25 25 25 25 25	3	TEST	SUMMARY	. 8
4.1 TEST ENVIRONMENT 9 4.2 TEST EQUIPMENT 9 4.3 DESCRIPTION OF SUPPORT UNIT 10 4.4 TEST MODE 10 4.5 MEASUREMENT UNCERTAINTY 10 4.6 DEVIATION FROM STANDARDS 10 4.7 ABNORMALITIES FROM STANDARD CONDITION 10 5 TEST ITEMS 11 5.1 ANTENNA REQUIREMENT 11 5.1.1 Test Requirement 11 5.1.2 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Gain 11 5.2 CONDUCTED EMISSION AT AC POWER LINE 12 5.2.1 Test Requirement 12 5.2.2 Test Setup Diagram 12 5.2.3 Test Procedure 12 5.3 DTS BANDWIDTH 15 5.3.1 Test Requirement 15 5.3.2 Test Setup Diagram 15 5.3.3 Test Procedure 15 5.3.4 Test Data 15 5.4 MAXIMUM CONDUCTED OUTPUT POWER 16 5.4.1 Test Dequirement 16 5.4.2 Test Setup Diagram 16 5.5.2 Test Setup Diagram 16 5.5.3 Test Procedure 17 5.5.4 Test Data<		3.2	TEST VERDICT	. 8
4.2 TEST EQUIPMENT 10 4.3 DESCRIPTION OF SUPPORT UNIT 10 4.4 TEST MODE 10 4.5 MEASUREMENT UNCERTAINTY 10 4.6 DEVIATION FROM STANDARD STANDARD 10 4.7 ABNORMALITIES FROM STANDARD CONDITION 10 5 TEST ITEMS 11 5.1 ANTENNA REQUIREMENT 11 5.1.1 Test Requirement 11 5.1.2 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Anti-Replacement Construction 11 5.1.2 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Anti-Replacement Construction 11 5.1.2 Antenna Anti-Replacement Construction 11 5.2 CONDUCTED EMISSION AT AC POWER LINE 12 5.2.1 Test Requirement 12 5.2.2 Test Setup Diagram 12 5.2.1 Test Data 12 5.3.1 Test Data 15 5.3.2 Test Data 15 5.3.4 Test Data 15 5.4<	4	TEST	CONFIGURATION	. 9
5.1 ANTENNA REQUIREMENT. 11 5.1.1 Test Requirement 11 5.1.2 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Gain 11 5.2 CONDUCTED EMISSION AT AC POWER LINE 12 5.2.1 Test Requirement 12 5.2.2 Test Setup Diagram 12 5.2.3 Test Procedure 12 5.2.4 Test Data 12 5.3 DTS BANDWIDTH 15 5.3.1 Test Requirement 15 5.3.2 Test Setup Diagram 15 5.3.3 Test Procedure 15 5.3.4 Test Data 15 5.4 MAXIMUM CONDUCTED OUTPUT POWER 16 5.4.1 Test Requirement 16 5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5.5 Test Requirement 18 5.5.2 Test Requirement 18 5.5.3 Test Procedure 18 5.5.4		4.2 4.3 4.4 4.5 4.6 4.7	TEST EQUIPMENT DESCRIPTION OF SUPPORT UNIT TEST MODE MEASUREMENT UNCERTAINTY DEVIATION FROM STANDARDS ABNORMALITIES FROM STANDARD CONDITION	. 9 10 10 10 10
5.1.1 Test Requirement 11 5.1.2 Antenna Anti-Replacement Construction 11 5.1.3 Antenna Gain 11 5.2 CONDUCTED EMISSION AT AC POWER LINE 12 5.2.1 Test Requirement 12 5.2.2 Test Setup Diagram 12 5.2.3 Test Procedure 12 5.2.4 Test Data 12 5.3 DTS BANDWIDTH 15 5.3.1 Test Requirement 15 5.3.2 Test Setup Diagram 15 5.3.3 Test Procedure 15 5.3.4 Test Data 15 5.4 MAXIMUM CONDUCTED OUTPUT POWER 16 5.4.1 Test Requirement 16 5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5.5 POWER SPECTRAL DENSITY 18 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.5.5 Test Requirement 18 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18	5			
5.2.1 Test Requirement 12 5.2.2 Test Setup Diagram 12 5.2.3 Test Procedure 12 5.2.4 Test Data 12 5.3 DTS BANDWIDTH 15 5.3.1 Test Requirement 15 5.3.2 Test Setup Diagram 15 5.3.3 Test Procedure 15 5.3.4 Test Data 15 5.4 MAXIMUM CONDUCTED OUTPUT POWER 16 5.4.1 Test Requirement 16 5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6.5 Test Setup Diagram 18 5.6.1 Test Requirement 18 5.6.2 Test Setup Diagram 18 5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20			5.1.1 Test Requirement	11 11 11
5.3.1 Test Requirement 15 5.3.2 Test Setup Diagram 15 5.3.3 Test Procedure 15 5.3.4 Test Data 15 5.4 MAXIMUM CONDUCTED OUTPUT POWER 16 5.4.1 Test Requirement 16 5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5 POWER SPECTRAL DENSITY 18 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6.6 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS (CONDUCTED) 19 5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20		5.2	5.2.1 Test Requirement	12 12 12
5.3.2 Test Setup Diagram 15 5.3.3 Test Procedure 15 5.3.4 Test Data 15 5.4 MAXIMUM CONDUCTED OUTPUT POWER 16 5.4.1 Test Requirement 16 5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5 Power Spectral Density 18 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6.1 Test Requirement 18 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20		5.3		
5.4.1 Test Requirement 16 5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5 Power Spectral Density 18 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6 Emissions in Non-restricted Frequency Bands (Conducted) 19 5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20			5.3.2 Test Setup Diagram	15 15
5.4.2 Test Setup Diagram 16 5.4.3 Test Procedure 17 5.4.4 Test Data 17 5.5 POWER SPECTRAL DENSITY 18 5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS (CONDUCTED) 19 5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20		5.4	MAXIMUM CONDUCTED OUTPUT POWER	16
5.5.1 Test Requirement 18 5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS (CONDUCTED) 19 5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20			5.4.2 Test Setup Diagram	16 17
5.5.2 Test Setup Diagram 18 5.5.3 Test Procedure 18 5.5.4 Test Data 18 5.6 EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS (CONDUCTED) 19 5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20		5.5		
5.6.1 Test Requirement 19 5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20			5.5.2 Test Setup Diagram	18 18 18
5.6.2 Test Setup Diagram 19 5.6.3 Test Procedure 20 5.6.4 Test Data 20		5.6	· ,	
			5.6.2 Test Setup Diagram	19 20
		5.7		

Report No.: 8133EU011901W2



Page 4 of 35

	5.7.1	Test Requirement	2 [^]
	5.7.2	Test Setup Diagram	
	5.7.3	Test Procedure	22
	5.7.4	Test Data	22
5.8	RADIAT	FED SPURIOUS EMISSIONS	26
	5.8.1	Test Requirement	26
	5.8.2	Test Setup Diagram	27
	5.8.3	Test Procedure	28
	5.8.4	Test Data	28
ANNEX A	TEST S	SETUP PHOTOS	34
		NAL PHOTOS	
		NAL PHOTOS	
MNEYD			3/



Report No.: 8133EU011901W2



Page 5 of 35 Report No.: 8133EU011901W2

2 General Information

2.1 Applicant Information

Applicant	Autel Intelligent Technology Corp., Ltd.
Address	Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili, Nanshan, Shenzhen, China

2.2 Manufacturer Information

Manufacturer	Autel Intelligent Technology Corp., Ltd.
Address	Floor 2, Caihong Keji Building, 36 Hi-tech North Six Road, Songpingshan Community, Xili, Nanshan, Shenzhen, China

2.3 Factory Information

Factory	Autel Intelligent Technology Corp., Ltd. Guangming Branch
Address	601 on the East Side and 601 on the West Side of the Third Electronic Building, and 601 on the Fourth Machinery Building, Yanxiang Science and Technology Industrial Park, Gaoxin Road, Dongzhou Community, Guangming Street, Guangming District, Shenzhen City, Guangdong Province, P.R. China

2.4 General Description of E.U.T.

Product Name	MaxiFlash VCMI		
Model No. Under Test	MaxiFlash VCMI		
List Model No.	N/A		
Description of Model differentiation	N/A		
Trade Mark	AUTEL		
Rating(s)	Input: 12VDC, 0.5A(Adapter Input: 100-240V~, 50/60Hz, 1.5A; Output: 12VDC, 3.0A, 36W) Capacity: 3.8VDC, 3750mAh		
Product Type			
Test Sample No.	-1/2(Normal Sample), -2/2(Engineering Sample)		
Hardware Version	DC2121_MAIN_V4		
Software Version	V01.01.00		
Remark	N/A		



Page 6 of 35 Report No.: 8133EU011901W2

2.5 Technical Information of E.U.T.

Technology Used	Bluetooth V5.0 (BDR+EDR) 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80)
	U-NII-1/3

The requirement for the following technical information of the EUT was tested in this report:

	<u> </u>			
Technology	WiFi 2.4G			
Operation Made	\boxtimes b \boxtimes g \boxtimes n(HT20) \square n(HT40)			
Operation Mode	ac(VHT20) ac(VHT40) ax(HEW20) ax(HEW40)			
Operating Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz			
Number of Channels	802.11b/g/n(HT20): 11 Channels			
Modulation Technology	DSSS, OFDM			
Modulation Type	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM) 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM)			
Antenna System (eg., MIMO, Smart Antenna)	N/A			
Categorization as Correlated or Completely Uncorrelated	N/A			
Antenna Type	PIFA Antenna			
Antenna Gain	2.4dBi			

All channels were listed on the following table:

	· ··· · · · · · · · · · · · · · · · ·						
Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	80	2447	11	2462
03	2422	06	2437	09	2452		



Page 7 of 35 Report No.: 8133EU011901W2

Modulation technology	Modulation Type	Transfer Rate (Mbps)(Single RF path)
	DBPSK	1
DSSS (802.11b)	DQPSK	2
	CCK	5.5/11
	BPSK	6/9
OFDM (902.44a)	QPSK	12/18
OFDM (802.11g)	16QAM	24/36
	64QAM	48/54
	BPSK	6.5/7.2
OFDM	QPSK	13/19.5/14.4/21.7
(802.11n-20 MHz)	16QAM	26/39/28.9/43.3
	64QAM	52/58.5/65/57.8/65/72.2

Note: Preliminary tests were performed in different data rate in above table to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

	· ·		
Test Items	Mode	Data Rate	Channel
Conducted Emission at AC Power Line	11b/11g/11n20	1/6/6.5Mbps	1/6/11
DTS Bandwidth	11b/11g/11n20	1/6/6.5Mbps	1/6/11
Maximum Conducted Output Power	11b/11g/11n20	1/6/6.5Mbps	1/6/11
Power spectral density (PSD)	11b/11g/11n20	1/6/6.5Mbps	1/6/11
Emission in non-restricted frequency bands (Conducted)	11b/11g/11n20	1/6/6.5Mbps	1/6/11
Band Edge Emissions (Restricted frequency bands)	11b/11g/11n20	1/6/6.5Mbps	1/6/11
Radiated Spurious Emission	11b/11g/11n20	1/6/6.5Mbps	1/6/11

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



Page 8 of 35 Report No.: 8133EU011901W2

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	ANSI C63.10-2020	American National Standard for Testing Unlicensed Wireless Devices
3	KDB Publication 558074 D01v05r02	Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

No.	Description	FCC Part No.	Verdict	Remark
1	Antenna Requirement	15.203	Pass	
2	Conducted Emission at AC Power Line	15.207	Pass	
3	DTS Bandwidth	15.247(a)(2)	Pass	
4	Maximum Conducted Output Power	15.247(b)(3)	Pass	
5	Power spectral density (PSD)	15.247(e)	Pass	
6	Emission in non-restricted frequency bands (Conducted)	15.247(d)	Pass	
7	Band Edge Emissions (Restricted frequency bands)	15.247(d)	Pass	
8	Radiated Spurious Emission	15.247(d)	Pass	

3.3 Test Laboratory

Test Laboratory	Shenzhen EU Testing Laboratory Limited
Address	101, Bldg. B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China
Designation Number	CN1368
Test Firm Registration Number	952583



Page 9 of 35 Report No.: 8133EU011901W2

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

Burning the measurement, the normal crivillorimental conditions were within the listed ranges.			
Relative Humidity	30% to 60%		
Atmospheric Pressure	86 kPa to 106 kPa		
Temperature	NT (Normal Temperature)	+15°C to +35°C	
Working Voltage of the EUT	NV (Normal Voltage)	AC 120V/60Hz for adapter DC 3.8V for battery	

4.2 Test Equipment

Conducted Emission at AC power line						
Equipment Manufacturer Model No Serial No Cal Date Cal D					Cal Due Date	
L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	EE-004	2023/01/10	2024/01/09	
EMI Test Receiver	Rohde & Schwarz	ESCI	EE-005	2023/01/10	2024/01/09	
Test Software	Ferrari Technology	EZ-EMC	EE-014	N.C.R	N.C.R	

Radiated Emission and RF Test					
Equipment	Manufacturer	Model No	Serial No	Cal Date	Cal Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESPI	EE-006	2023/01/10	2024/01/09
Bilog Broadband Antenna	SCHWARZBECK	VULB 9163	EE-007	2023/01/14	2026/01/09
Double Ridged Horn Antenna	A-INFOMW	LB-10180-NF	EE-008	2023/01/12	2026/01/09
Pre-amplifier	Agilent	8447D	EE-009	2023/01/10	2024/01/09
Pre-amplifier	Agilent	8449B	EE-010	2023/01/10	2024/01/09
MXA Signal Analyzer	Agilent	N9020A	EE-011	2023/01/10	2024/01/09
MXG RF Vector Signal Generator	Agilent	N5182A	EE-012	2023/01/10	1 Year
Test Software	Farad	EZ-EMC	EE-015	N.C.R	N.C.R
MIMO Power Measurement Module	TSTPASS	TSPS 2023R	EE-016	2023/05/17	2024/05/16
RF Test Software	TSTPASS	TS32893 V2.0	EE-017	N.C.R	N.C.R
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	EE-402	2023/02/16	2024/02/15
MXG RF Analog Signal Generator	Agilent	N5181A	EE-406	2023/02/16	2024/02/15
Constant Temperature Humidity Chamber	Guangxin	GXP-401	ES-002	2023/07/31	2024/07/30



Page 10 of 35 Report No.: 8133EU011901W2

4.3 Description of Support Unit

No.	Title	Manufacturer	Model No.	Serial No.
1	Adapter	Xinspower	A361-1203000DI	
2	MaxiSys Ultra	Autel Intelligent Technology Corp., Ltd.	MaxiSys Ultra	

4.4 Test Mode

No.	Test Modes	Description
TM1	802.11b mode	Keep the EUT in 802.11b transmitting mode.
TM2	802.11g mode	Keep the EUT in 802.11g transmitting mode.
TM3	802.11n(HT20) mode	Keep the EUT in 802.11n(HT20) transmitting mode.

4.5 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level

using a coverage factor of k=2.

Test Item	Measurement Uncertainty	
Conducted Emission	2.64 dB	
Occupied Channel Bandwidth	2.8 %	
RF output power, conducted	0.68 dB	
Power Spectral Density, conducted	1.37 dB	
Unwanted Emissions, conducted	1.84 dB	
All emissions, radiated	5.11 dB	
Temperature	0.8°C	
Humidity	4%	

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Condition

None.



Page 11 of 35 Report No.: 8133EU011901W2

5 Test Items

5.1 Antenna requirement

5.1.1 Test Requirement

Test Requirement

According to FCC §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

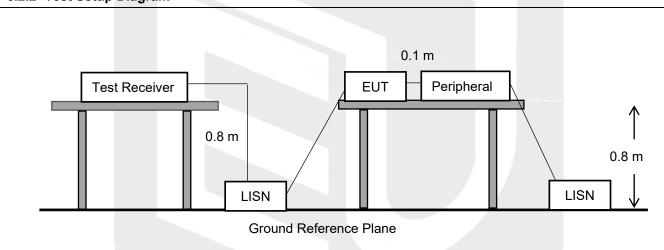
Page 12 of 35 Report No.: 8133EU011901W2

5.2 Conducted Emission at AC Power Line

5.2.1 Test Requirement

Test Requirement	Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN).			
	Frequency of emission (MHz)	Conducted limit (dBµV)		
		Quasi-peak	Average	
T 4 1 2 24	0.15-0.5	66 to 56*	56 to 46*	
Test Limit	0.5-5	56	46	
	5-30	60	50	
	*Decreases with the logarithm of the frequency.			
Test Method	ANSI C63.10-2020 section 6.2			

5.2.2 Test Setup Diagram



5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.4 Test Data

PASS.

All modes have been tested and PASS. Only the worst case data was showed in the report, please to see the following pages.

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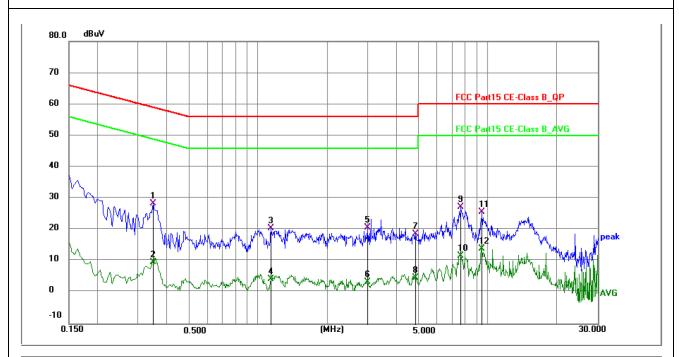
Page 13 of 35 Report No.: 8133EU011901W2

Conducted Emission Test Data

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle

Comments: Live Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.3480	28.29	0.00	28.29	59.01	-30.72	QP	Р	
2	0.3480	9.80	0.00	9.80	49.01	-39.21	AVG	Р	
3	1.1400	20.59	0.00	20.59	56.00	-35.41	QP	Р	
4	1.1400	4.24	0.00	4.24	46.00	-41.76	AVG	J	
5	2.9895	20.80	0.00	20.80	56.00	-35.20	QP	Р	
6	2.9895	3.49	0.00	3.49	46.00	-42.51	AVG	П	
7	4.8390	18.68	0.00	18.68	56.00	-37.32	QP	Р	
8	4.8390	4.79	0.00	4.79	46.00	-41.21	AVG	Р	
9	7.6380	27.35	0.00	27.35	60.00	-32.65	QP	Р	
10	7.6380	11.70	0.00	11.70	50.00	-38.30	AVG	Р	
11	9.4425	25.77	0.00	25.77	60.00	-34.23	QP	Р	
12	9.4425	13.97	0.00	13.97	50.00	-36.03	AVG	Р	

Note: Level = Reading + Factor Margin = Level - Limit

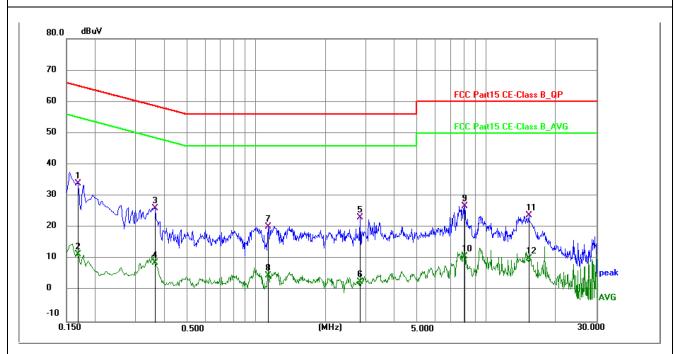
Page 14 of 35 Report No.: 8133EU011901W2

Conducted Emission Test Data

Test Site: Shielded Room #1

Test Mode: TM1/ CH Middle

Comments: Neutral Line



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1680	34.07	0.00	34.07	65.06	-30.99	QP	Р	
2	0.1680	11.53	0.00	11.53	55.06	-43.53	AVG	Р	
3	0.3615	26.07	0.00	26.07	58.69	-32.62	QP	П	
4	0.3615	8.80	0.00	8.80	48.69	-39.89	AVG	Р	
5	2.8320	23.11	0.00	23.11	56.00	-32.89	QP	П	
6	2.8320	2.70	0.00	2.70	46.00	-43.30	AVG	J	
7	1.1265	20.27	0.00	20.27	56.00	-35.73	QP	П	
8	1.1265	4.84	0.00	4.84	46.00	-41.16	AVG	Р	
9	8.0565	26.78	0.00	26.78	60.00	-33.22	QP	Р	
10	8.0565	10.74	0.00	10.74	50.00	-39.26	AVG	J	
11	15.2700	23.94	0.00	23.94	60.00	-36.06	QP	Р	
12	15.2700	10.10	0.00	10.10	50.00	-39.90	AVG	Р	

Note: Level = Reading + Factor Margin = Level - Limit



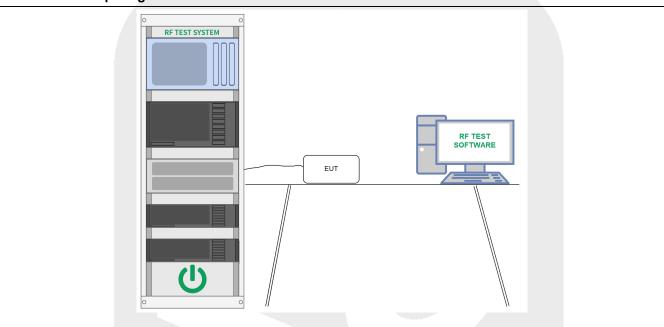
Page 15 of 35 Report No.: 8133EU011901W2

5.3 DTS Bandwidth

5.3.1 Test Requirement

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Test Requirement	Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Limit	Section (a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.
Test Method	ANSI C63.10-2020 section 11.8

5.3.2 Test Setup Diagram



5.3.3 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the VBW \geq [3 × RBW].
- c) Detector = peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Data

PASS.

Please refer to Annex D for details.

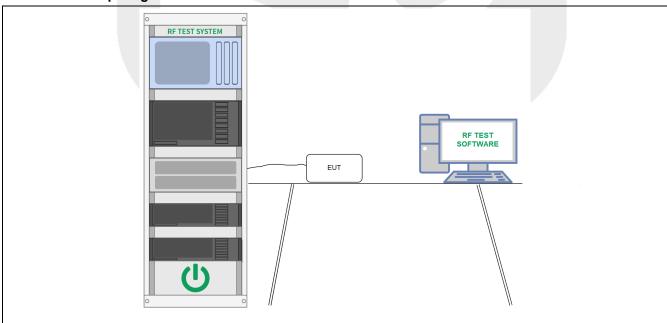
Page 16 of 35 Report No.: 8133EU011901W2

5.4 Maximum Conducted Output Power

5.4.1 Test Requirement

Test Requirement	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Limit	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.
Test Method	ANSI C63.10-2020 section 11.9

5.4.2 Test Setup Diagram



Page 17 of 35 Report No.: 8133EU011901W2

5.4.3 Test Procedure

Maximum peak conducted output power

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Maximum conducted (average) output power (Reporting Only)

- a) As an alternative to spectrum analyzer or EMI receiver measurements, measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.
- 1) The EUT is configured to transmit continuously, or to transmit with a constant duty factor.
- 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
- 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- b) If the transmitter does not transmit continuously, measure the duty cycle (x) of the transmitter output signal as described in Section 6.0.
- c) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- d) Adjust the measurement in dBm by adding 10log (1/x), where x is the duty cycle to the measurement result.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW ≥ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \le 16.7$ microseconds.)

5.4.4 Test Data

PASS.

Please refer to Annex D for details.

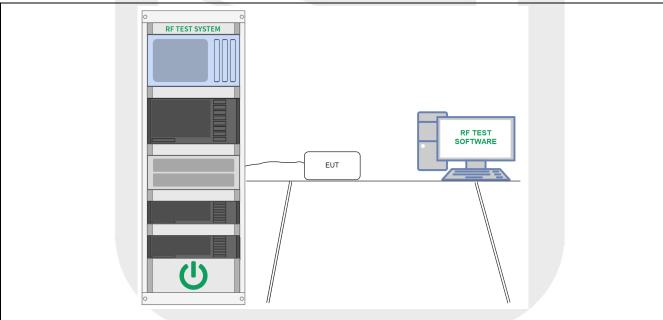
Page 18 of 35 Report No.: 8133EU011901W2

5.5 Power Spectral Density

5.5.1 Test Requirement

Test Requirement	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Limit	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.
Test Method	ANSI C63.10-2020 section 11.10

5.5.2 Test Setup Diagram



5.5.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz \leq RBW \leq 100 kHz.

Set the VBW \geq 3 RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.5.4 Test Data

PASS.

Please refer to Annex D for details.

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TRF No.: FCC Part 15 Subpart C_WiFi (A01)



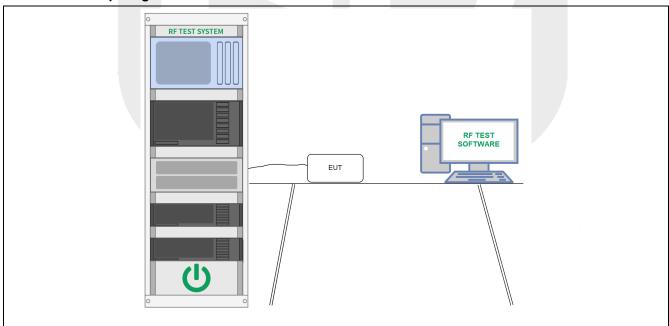
Page 19 of 35 Report No.: 8133EU011901W2

5.6 Emissions in Non-restricted Frequency Bands (Conducted)

5.6.1 Test Requirement

	In any 100 kHz handwidth autoide the frequency hand in which the arrest
	In any 100 kHz bandwidth outside the frequency band in which the spread
	spectrum or digitally modulated intentional radiator is operating, the radio
	frequency power that is produced by the intentional radiator shall be at least 20 dB
	below that in the 100 kHz bandwidth within the band that contains the highest level
	of the desired power, based on either an RF conducted or a radiated
Test Requirement	measurement, provided the transmitter demonstrates compliance with the peak
rest requirement	conducted power limits. If the transmitter complies with the conducted power limits
	based on the use of RMS averaging over a time interval, as permitted under
	paragraph (b)(3) of this section, the attenuation required under this paragraph shall
	be 30 dB instead of 20 dB. Attenuation below the general limits specified in §
	15.209(a) is not required.
	In any 100 kHz bandwidth outside the frequency band in which the spread
	spectrum or digitally modulated intentional radiator is operating, the radio
	frequency power that is produced by the intentional radiator shall be at least 20 dB
	below that in the 100 kHz bandwidth within the band that contains the highest level
	of the desired power, based on either an RF conducted or a radiated
Test Limit	measurement, provided the transmitter demonstrates compliance with the peak
163t Lillit	conducted power limits. If the transmitter complies with the conducted power limits
	·
	based on the use of RMS averaging over a time interval, as permitted under
	paragraph (b)(3) of this section, the attenuation required under this paragraph shall
	be 30 dB instead of 20 dB. Attenuation below the general limits specified in §
	15.209(a) is not required.
Test Method	ANSI C63.10-2020 section 11.11

5.6.2 Test Setup Diagram





Page 20 of 35 Report No.: 8133EU011901W2

5.6.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle \geq 98%). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than \pm 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW \geq 3 x RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) \pm 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission \pm 0.5 MHz.

Standard method(The 99% OBW of the fundamental emission is without 2 MHz of the authorized band):

Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products that fall outside of the authorized band of operation.

Reference level: As required to keep the signal from exceeding the maximum instrument input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.

Attenuation: Auto (at least 10 dB preferred).

Sweep time: Coupled.

Resolution bandwidth: 100 kHz. Video bandwidth: 300 kHz.

Detector: Peak.
Trace: Max hold.

5.6.4 Test Data

PASS.

Please refer to Annex D for details.

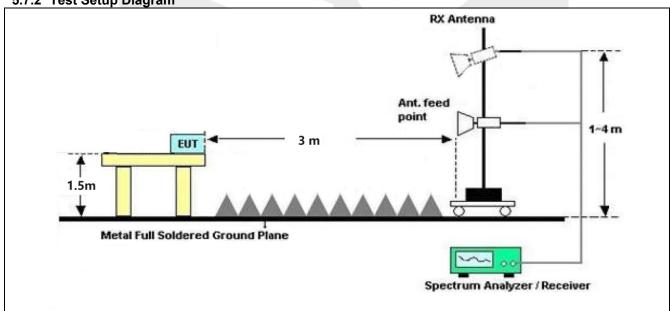
Page 21 of 35 Report No.: 8133EU011901W2

5.7 Band edge Emissions (Restricted frequency bands)

5.7.1 Test Requirement

Test Requirement In addition, radiated emissions which fall in the restricted bands, as defined 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)).	J							
3 3 4 4 7/								
Frequency (MHz) Field strength (microvolts/meter) Measureme distance (meters)	nt							
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								
** Except as provided in paragraph (g), fundamental emissions from intention	** Except as provided in paragraph (g), fundamental emissions from intentional							
	radiators operating under this section shall not be located in the frequency bands							
Test Limit 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation	within							
these frequency bands is permitted under other sections of this part, e.g.,								
§§ 15.231 and 15.241.								
Note:								
1) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].								
2) In the emission tables above, the tighter limit applies at the band edges.	7							
3) For Above 1000 MHz, the emission limit in this paragraph is based on	,							
measurement instrumentation employing an average detector, measuremen	t usina							
instrumentation with a peak detector function, corresponding to 20dB above	, , , , , , , , , , , , , , , , , , ,							
maximum permitted average limit.	, , , , , , , , , , , , , , , , , , ,							
4) For above 1000 MHz, limit field strength of harmonics:								
54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).								
Test Method ANSI C63.10-2020 section 11.12								

5.7.2 Test Setup Diagram





Page 22 of 35 Report No.: 8133EU011901W2

5.7.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \ge 1$ GHz, 100 kHz for f < 1 GHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold.

5.7.4 Test Data

PASS.

Please refer to the following pages.



Page 23 of 35 Report No.: 8133EU011901W2

Band Edge Emissions (Restricted frequency bands):

Test N	Mode: 802.11b)	-	CH Low: 2412 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	2310.00	43.04	-2.81	40.23	74.00	-33.77	PK	PASS
Н	2390.00	48.39	-2.69	45.70	74.00	-28.30	PK	PASS
Н	**2400.00	63.02	-2.68	60.34	74.00	-13.66	PK	PASS
V	2310.00	44.78	-2.81	41.97	74.00	-32.03	PK	PASS
V	2390.00	48.63	-2.69	45.94	74.00	-28.06	PK	PASS
V	**2400.00	64.51	-2.68	61.83	74.00	-12.17	PK	PASS
Н	2310.00	34.58	-2.81	31.77	54.00	-22.23	AV	PASS
Н	2390.00	36.22	-2.69	33.53	54.00	-20.47	AV	PASS
Н	**2400.00	47.85	-2.68	45.17	54.00	-8.83	AV	PASS
V	2310.00	31.79	-2.81	28.98	54.00	-25.02	AV	PASS
V	2390.00	38.38	-2.69	35.69	54.00	-18.31	AV	PASS
V	**2400.00	47.24	-2.68	44.56	54.00	-9.44	AV	PASS

Test N	Mode: 802.11b)			CH High: 2	462 MHz		
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	**2483.50	45.89	-2.56	43.33	74.00	-30.67	PK	PASS
Н	2500.00	50.49	-2.54	47.95	74.00	-26.05	PK	PASS
V	**2483.50	49.55	-2.56	46.99	74.00	-27.01	PK	PASS
V	2500.00	51.62	-2.54	49.08	74.00	-24.92	PK	PASS
Н	**2483.50	37.95	-2.56	35.39	54.00	-18.61	AV	PASS
Н	2500.00	41.75	-2.54	39.21	54.00	-14.79	AV	PASS
V	**2483.50	36.40	-2.56	33.84	54.00	-20.16	AV	PASS
V	2500.00	40.69	-2.54	38.15	54.00	-15.85	AV	PASS

Remark

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.



Page 24 of 35 Report No.: 8133EU011901W2

Band Edge Emissions (Restricted frequency bands):

Test N	/lode: 802.11g)		CH Low: 2412 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	2310.00	44.32	-2.81	41.51	74.00	-32.49	PK	PASS
Н	2390.00	49.84	-2.69	47.15	74.00	-26.85	PK	PASS
Н	**2400.00	65.19	-2.68	62.51	74.00	-11.49	PK	PASS
V	2310.00	44.34	-2.81	41.53	74.00	-32.47	PK	PASS
V	2390.00	49.70	-2.69	47.01	74.00	-26.99	PK	PASS
V	**2400.00	62.32	-2.68	59.64	74.00	-14.36	PK	PASS
Н	2310.00	31.93	-2.81	29.12	54.00	-24.88	AV	PASS
Н	2390.00	36.54	-2.69	33.85	54.00	-20.15	AV	PASS
Н	**2400.00	49.29	-2.68	46.61	54.00	-7.39	AV	PASS
V	2310.00	31.95	-2.81	29.14	54.00	-24.86	AV	PASS
V	2390.00	35.69	-2.69	33.00	54.00	-21.00	AV	PASS
V	**2400.00	49.52	-2.68	46.84	54.00	-7.16	AV	PASS

Test N	/lode: 802.11g)			CH High: 2462 MHz			
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	**2483.50	47.04	-2.56	44.48	74.00	-29.52	PK	PASS
Н	2500.00	50.37	-2.54	47.83	74.00	-26.17	PK	PASS
V	**2483.50	46.65	-2.56	44.09	74.00	-29.91	PK	PASS
V	2500.00	52.08	-2.54	49.54	74.00	-24.46	PK	PASS
Н	**2483.50	39.30	-2.56	36.74	54.00	-17.26	AV	PASS
Н	2500.00	38.92	-2.54	36.38	54.00	-17.62	AV	PASS
V	**2483.50	37.02	-2.56	34.46	54.00	-19.54	AV	PASS
V	2500.00	40.17	-2.54	37.63	54.00	-16.37	AV	PASS

Remark

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.



Page 25 of 35 Report No.: 8133EU011901W2

Band Edge Emissions (Restricted frequency bands):

Test M	Mode: 802.11r	n(HT20)	-	CH Low: 2412 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	2310.00	45.68	-2.81	42.87	74.00	-31.13	PK	PASS
Н	2390.00	50.24	-2.69	47.55	74.00	-26.45	PK	PASS
Н	**2400.00	65.73	-2.68	63.05	74.00	-10.95	PK	PASS
V	2310.00	46.61	-2.81	43.80	74.00	-30.20	PK	PASS
V	2390.00	47.17	-2.69	44.48	74.00	-29.52	PK	PASS
V	**2400.00	64.65	-2.68	61.97	74.00	-12.03	PK	PASS
Н	2310.00	34.54	-2.81	31.73	54.00	-22.27	AV	PASS
Н	2390.00	37.92	-2.69	35.23	54.00	-18.77	AV	PASS
Н	**2400.00	47.25	-2.68	44.57	54.00	-9.43	AV	PASS
V	2310.00	32.66	-2.81	29.85	54.00	-24.15	AV	PASS
V	2390.00	35.71	-2.69	33.02	54.00	-20.98	AV	PASS
V	**2400.00	48.17	-2.68	45.49	54.00	-8.51	AV	PASS

Test N	/lode: 802.11r	n(HT20)		CH High: 2462 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
Н	**2483.50	49.82	-2.56	47.26	74.00	-26.74	PK	PASS
Н	2500.00	50.26	-2.54	47.72	74.00	-26.28	PK	PASS
V	**2483.50	47.58	-2.56	45.02	74.00	-28.98	PK	PASS
V	2500.00	49.27	-2.54	46.73	74.00	-27.27	PK	PASS
Н	**2483.50	37.56	-2.56	35.00	54.00	-19.00	AV	PASS
Н	2500.00	39.25	-2.54	36.71	54.00	-17.29	AV	PASS
V	**2483.50	39.89	-2.56	37.33	54.00	-16.67	AV	PASS
V	2500.00	40.88	-2.54	38.34	54.00	-15.66	AV	PASS

Remark:

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.



Page 26 of 35 Report No.: 8133EU011901W2

5.8 Radiated Spurious Emissions

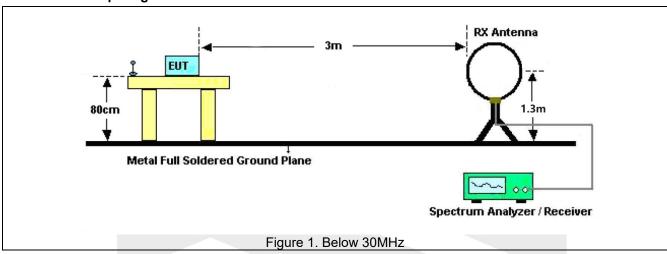
5.8.1 Test Requirement

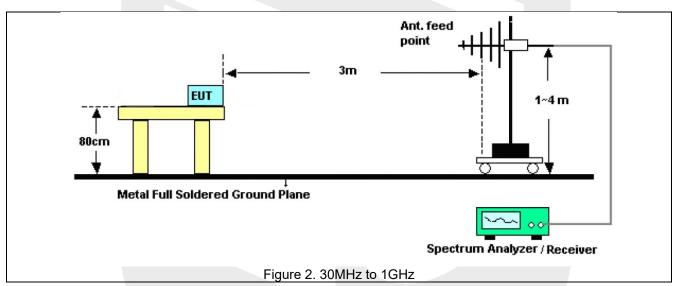
3.0.1 Test Nequiremen	16							
		sions which fall in the restricted	_					
Test Requirement	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ply with the radiated emission lir	nits specified in §					
	15.209(a)(see § 15.205(d	s)).						
	Frequency (MHz)	Field strength	Measurement					
		(microvolts/meter)	distance					
			(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					
	** Except as provided in paragraph (g), fundamental emissions from intentional							
	radiators operating under	this section shall not be located	is section shall not be located in the frequency bands					
Test Limit	54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within							
	these frequency bands is permitted under other sections of this part, e.g.,							
	§§ 15.231 and 15.241.							
	Note:							
	1) Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].							
	2) In the emission tables above, the tighter limit applies at the band edges.							
	3) For Above 1000 MHz, the emission limit in this paragraph is based on							
	, ,							
	measurement instrumentation employing an average detector, measurement using							
	instrumentation with a peak detector function, corresponding to 20dB above the							
	maximum permitted avera	_						
	*	limit field strength of harmonics:						
	54dBuV/m@3m (AV) and							
Test Method	ANSI C63.10-2020 section	on 6.6.4						

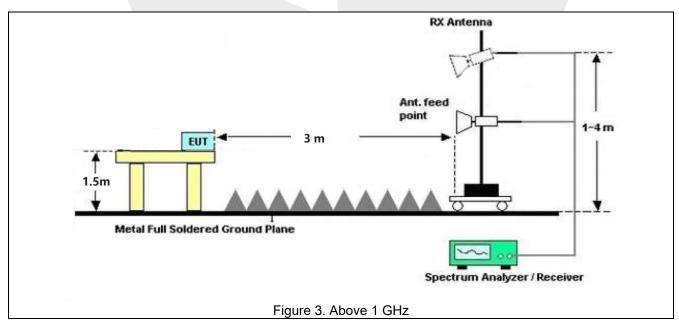
TRF No.: FCC Part 15 Subpart C_WiFi (A01)

Page 27 of 35 Report No.: 8133EU011901W2

5.8.2 Test Setup Diagram







SHENZHEN EU TESTING LABORATORY LIMITED

Page 28 of 35 Report No.: 8133EU011901W2

5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.8.4 Test Data

PASS.

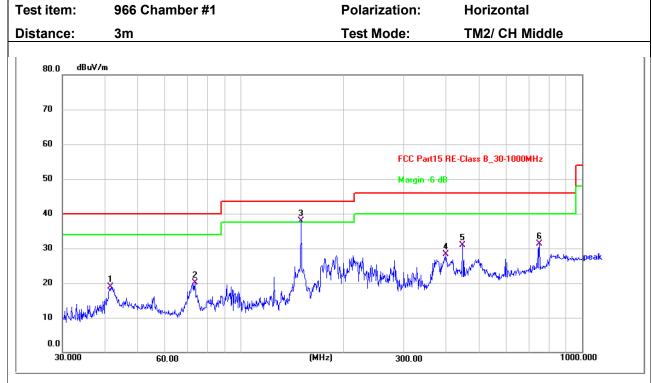
Please to see the following pages.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

For test of 30MHz-1GHz, during the test, pre-scan all modes, only the worst case is recorded in the report.

Page 29 of 35 Report No.: 8133EU011901W2

Radiated Emission Test Data (30-1000MHz)

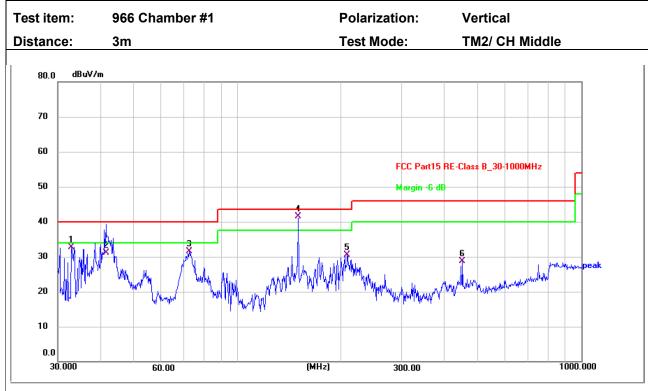


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	41.7129	33.22	-14.34	18.88	40.00	-21.12	QP	Р	
2	73.3593	38.61	-18.41	20.20	40.00	-19.80	QP	Р	
3 *	150.0108	56.13	-18.25	37.88	43.50	-5.62	QP	Р	
4	399.0302	38.08	-9.74	28.34	46.00	-17.66	QP	Р	
5	446.4141	39.91	-9.04	30.87	46.00	-15.13	QP	Р	
6	750.1083	34.63	-3.39	31.24	46.00	-14.76	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit

Page 30 of 35 Report No.: 8133EU011901W2

Radiated Emission Test Data (30-1000MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	32.8637	49.14	-16.39	32.75	40.00	-7.25	QP	J	
2	41.4215	45.59	-14.39	31.20	40.00	-8.80	QP	J	
ω	72.3376	49.66	-18.17	31.49	40.00	-8.51	QP	J	
4 *	150.0108	59.85	-18.25	41.60	43.50	-1.90	QP	Р	
5	208.5803	44.90	-14.41	30.49	43.50	-13.01	QP	Р	
6	451.1350	37.67	-8.98	28.69	46.00	-17.31	QP	Р	

Note: Level = Reading + Factor Margin = Level - Limit



Page 31 of 35 Report No.: 8133EU011901W2

Radiated Spurious Emission (1GHz-25GHz)

	lode: 802.11g)	<u></u>	CH Low: 2412 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4824.54	41.81	4.74	46.55	74.00	-27.46	PK	PASS
V	7236.71	34.68	9.84	44.52	74.00	-29.48	PK	PASS
V	9648.14	28.04	13.18	41.22	74.00	-32.78	PK	PASS
٧	12060.71	*	*	*	74.00	*	PK	PASS
٧	14472.60	*	*	*	74.00	*	PK	PASS
V	16884.30	*	*	*	74.00	*	PK	PASS
Н	4824.91	40.49	4.74	45.23	74.00	-28.77	PK	PASS
Н	7236.05	35.69	9.84	45.53	74.00	-28.48	PK	PASS
Н	9648.98	29.38	13.18	42.56	74.00	-31.44	PK	PASS
Н	12060.50	*	*	*	74.00	*	PK	PASS
Н	14472.62	*	*	*	74.00	*	PK	PASS
Н	16884.96	*	*	*	74.00	*	PK	PASS
V	4824.48	31.73	4.74	36.47	54.00	-17.53	AV	PASS
V	7236.54	23.79	9.84	33.63	54.00	-20.38	AV	PASS
V	9648.24	17.92	13.18	31.10	54.00	-22.91	AV	PASS
V	12060.91	*	*	*	54.00	*	AV	PASS
V	14472.63	*	*	*	54.00	*	AV	PASS
V	16884.53	*	*	*	54.00	*	AV	PASS
Н	4824.60	32.51	4.74	37.25	54.00	-16.76	AV	PASS
Н	7236.05	23.76	9.84	33.60	54.00	-20.41	AV	PASS
Н	9648.98	17.44	13.18	30.62	54.00	-23.38	AV	PASS
Н	12060.50	*	*	*	54.00	*	AV	PASS
Н	14472.62	*	*	*	54.00	*	AV	PASS
Н	16884.96	*	*	*	54.00	*	AV	PASS

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20n) mode, and found the 802.11g is worse case, the report only record this mode.
- 2. Emission Level = Reading + Factor, Margin= Emission Level Limit.
- 3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Page 32 of 35 Report No.: 8133EU011901W2

Radiated Spurious Emission (1GHz-25GHz)

	Mode: 802.11g	Emission (1)	<u> </u>	CH Middle: 2437 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4874.64	42.75	4.90	47.65	74.00	-26.35	PK	PASS
V	7311.69	34.23	9.83	44.06	74.00	-29.94	PK	PASS
V	9748.23	29.06	13.21	42.27	74.00	-31.73	PK	PASS
V	12185.59	*	*	*	74.00	*	PK	PASS
V	14622.22	*	*	*	74.00	*	PK	PASS
V	17059.50	*	*	*	74.00	*	PK	PASS
Н	4874.02	41.63	4.90	46.53	74.00	-27.48	PK	PASS
Н	7311.36	34.16	9.83	43.99	74.00	-30.02	PK	PASS
Н	9748.94	29.39	13.21	42.60	74.00	-31.41	PK	PASS
Н	12185.84	*	*	*	74.00	*	PK	PASS
Н	14622.22	*	*	*	74.00	*	PK	PASS
Н	17059.01	*	*	*	74.00	*	PK	PASS
V	4874.21	32.03	4.90	36.93	54.00	-17.08	AV	PASS
V	7311.34	23.47	9.83	33.30	54.00	-20.70	AV	PASS
V	9748.17	17.77	13.21	30.98	54.00	-23.02	AV	PASS
V	12185.07	*	*	*	54.00	*	AV	PASS
V	14622.75	*	*	*	54.00	*	AV	PASS
V	17059.78	*	*	*	54.00	*	AV	PASS
Н	4874.02	30.25	4.90	35.15	54.00	-18.85	AV	PASS
Н	7311.36	22.80	9.83	32.63	54.00	-21.37	AV	PASS
Н	9748.94	17.32	13.21	30.53	54.00	-23.47	AV	PASS
Н	12185.84	*	*	*	54.00	*	AV	PASS
Н	14622.22	*	*	*	54.00	*	AV	PASS
Н	17059.01	*	*	*	54.00	*	AV	PASS

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20n) mode, and found the 802.11g is worse case, the report only record this mode.
- 2. Emission Level = Reading + Factor, Margin= Emission Level Limit.
- 3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Page 33 of 35 Report No.: 8133EU011901W2

Radiated Spurious Emission (1GHz-25GHz)

	1ode: 802.11	Emission (1)	<u> </u>	CH High: 2462 MHz				
Pol.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Emission level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type	Result
V	4924.39	41.73	5.05	46.78	74.00	-27.22	PK	PASS
V	7386.98	34.44	9.83	44.27	74.00	-29.74	PK	PASS
V	9849.00	30.50	13.24	43.74	74.00	-30.27	PK	PASS
V	12310.82	*	*	*	74.00	*	PK	PASS
V	14772.62	*	*	*	74.00	*	PK	PASS
V	17234.26	*	*	*	74.00	*	PK	PASS
Н	4924.66	41.97	5.05	47.02	74.00	-26.98	PK	PASS
Н	7386.24	34.66	9.83	44.49	74.00	-29.51	PK	PASS
Н	9848.99	29.32	13.24	42.56	74.00	-31.44	PK	PASS
Н	12310.73	*	*	*	74.00	*	PK	PASS
Н	14772.56	*	*	*	74.00	*	PK	PASS
Н	17234.30	*	*	*	74.00	*	PK	PASS
V	4924.51	32.52	5.05	37.57	54.00	-16.43	AV	PASS
V	7386.76	24.09	9.83	33.92	54.00	-20.08	AV	PASS
V	9848.84	17.34	13.24	30.58	54.00	-23.42	AV	PASS
V	12310.56	*	*	*	54.00	*	AV	PASS
V	14772.91	*	*	*	54.00	*	AV	PASS
V	17234.31	*	*	*	54.00	*	AV	PASS
Н	4924.66	32.43	5.05	37.48	54.00	-16.53	AV	PASS
Н	7386.24	23.08	9.83	32.91	54.00	-21.09	AV	PASS
Н	9848.99	19.84	13.24	33.08	54.00	-20.92	AV	PASS
Н	12310.73	*	*	*	54.00	*	AV	PASS
Н	14772.56	*	*	*	54.00	*	AV	PASS
Н	17234.30	*	*	*	54.00	*	AV	PASS

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20n) mode, and found the 802.11g is worse case, the report only record this mode.
- 2. Emission Level = Reading + Factor, Margin= Emission Level Limit.
- 3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.



Page 34 of 35 Report No.: 8133EU011901W2

ANNEX A TEST SETUP PHOTOS

Please refer to the document "8133EU011901W-AA.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8133EU011901W-AB.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8133EU011901W-AC.PDF"

ANNEX D TEST DATA

Please refer to the document "8133EU011901W-AE.PDF"



Page 35 of 35 Report No.: 8133EU011901W2

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