

Report No.: SUCR250500040204

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TEST REPORT

Application No.: SUCR2505000402IT

Applicant: Shanghai Sunmi Technology Co.,Ltd.

Address of Applicant: Room 505, No. 388, Song Hu Road, Yang Pu District, Shanghai, China

Shanghai Sunmi Technology Co.,Ltd. Manufacturer:

Room 505, No. 388, Song Hu Road, Yang Pu District, Shanghai, China Address of Manufacturer:

EUT Description: Wireless Data Terminal

Model No.: TF41A Trade Mark: SUNMI

FCC ID: 2AH25M3W

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

June 16, 2025 **Date of Receipt:**

Date of Test: June 17, 2025 to June 20, 2025

Date of Issue: June 24, 2025

Test Result: PASS *

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Wireless Laboratory

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. South of No. 6 Plant, No. 1, RunSheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000

t (86-512) 6229 2980 www.sgsgroup.com.cn

In the configuration tested, the EUT detailed in this report complied with the standards specified



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Version

Revision Record				
Version	Description	Date	Remark	
01	Original	June 24, 2025	/	

Authorized for issue by:		
Tested By	Hayley Zhang Hayley ZhangProject Manager	
Approved By	Cloud Peng- Cloud Peng/Technical Manager	



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1 Test Summary

Test Item	ult
Requirement 15.203/15.407(a)	
Band 15.407(a)(1) Band II-	
26dB Emission Bandwidth Band III I I I I I I I I I I I I I I I I I	
Bandwidth Band II- 15.407(a)(2)	
Band III	
Emission Band III	
Band II	
Band Conducted A Band Clause Cl	
Sand II-	
A	
Band II	
Duty Cycle Band II Band II Band II C Band III Band II Band II Band II Band II Band II Band II Band I 15.407(a)(iv) < 250mW C C Band III C C C C C C C C C	
Band	
Duty Cycle	report
Duty Cycle A	
Band II	
Band III	
Band I 15.407(a)(iv) < 250mW	
Maximum Band II- Conducted A 15 407(a)(2) MIN/250mW 11dBm+10*lg(EBW)) Clause	
Conducted A 15 407(a)(2) MINV250mW 11dBm+10*lg(FBW)\\ Clause	
15/11/131/71 ZIVIIIVI ZSUMVV TTABM±11/"IA(EBV/AV	
Power C	
Band III 15.407(a)(3) < 1W	
Band I 15.407(a)(iv) <11dBm/MHz	
Maximum Band II- Power A 15 407(a)(2) 11dPm/MUz Clause	
Spectral Band II- 15.407(a)(2) <11dBm/MHz 3.8	
Density C	
Band III 15.407(a)(3) <30dBm/500KHz	
F<1GHz:	
§15.209 limit (QP).	
Band I 15.407(b) F≥1GHz & out-restricted: -27dBm/MHz PK e.i.r.p. (exl. PASS	DASS
15.205/15.209 5.15-5.35 GHz).	J
F≥1GHz & in-restricted:	
§15.209 limit (AV&PK).	
Radiated F<1GHz:	
Spurious Spurious F≥1GHz & out-restricted: 3.9	PASS
EMISSIONS Band II- 15.40/(b) <-27dBm/MHz DK a ir b (avl DASS	
A 15.205/15.209 5.25-5.35 GHz).	_
F≥1GHz & in-restricted:	
§15.209 limit (AV&PK).	
F<1GHz:	
Band II- 15.407(b) §15.209 limit (QP). PASS	
<-27dBm/MHz PK e.i.r.p. (exl.	S



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Test Item	Band ^[1]	FCC rules No.	Test Requirements	Test Result	Result
			5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS
Restricted bands around fundamental frequency	Band I Band II- A Band II- C Band III	15.407(b) 15.205/15.209		Clause 3.10	PASS
AC Power Line Conducted Emissions	Band I Band II- A Band II- C Band III	15.207		Clause 3.2	PASS
Dynamic Frequency Selection	Band II- A Band II- C	15.407	Channel Move Time:10 Seconds	Clause 3.11	
Frequency Stability	Band I Band II- A Band II- C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	Reference report SUCR250100002404

Note 1:

Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz



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Remark:

This test report (Report No.: SUCR250500040204 issue on 2025/06/24) is based on the original test report (Report No.: SUCR250100002404 issue on 2025/06/09).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Considering to the difference, pre-scan were performed on the sample in this report to find the items which can be influential to the result in the original test report for fully retest.

Therefore in this report only the ac power line conducted emission and radiated spurious emissions based on the worst case of the original report with report number SUCR250100002404 issue on 2025/06/09, other test data in this report are based on the previous report with report number SUCR250100002404 issue on 2025/06/09.



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2 General Information

2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.	
Address of Applicant: Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China		
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.		
Address of Manufacturer:	Room 505,No.388,Song Hu Road,Yang Pu District,Shanghai,China	

2.2 Test Location

Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Ives Cheng, King-p Li

2.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327



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2.4 General Description of EUT

Hardware Version:	V1.2			
Software Version:	T602AA_E	02AA_EVT_14.0_SUNMI_202503131820.00-00		
Power Supply:	3.87V from	from battery		
	802.11a:	20 MHz channel band	dwidth	
	802.11n:	20 MHz / 40 MHz cha	nnel bandwidth	
WLAN Mode Supported:	802.11ac:	20 MHz / 40 MHz / 80) MHz channel bandwidth	
	802.11ax:	20 MHz / 40 MHz / 80 MHz channel bandwidth		
Operation Frequency:	5150MHz to 5250MHz to 5470MHz to 5725MHz to	5350MHz 5725MHz		
	802.11a:	OFDM (BPSK, QPSK	, 16QAM, 64QAM)	
	802.11n:	OFDM (BPSK, QPSK	, 16QAM, 64QAM)	
Modulation Type:	802.11ac:	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)		
	802.11ax:	OFDM/OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)		
	20MHz:	802.11a/n(HT20)/ac(VHT20)/ax(HE20)/be(EHT20)		
Channel Spacing:	40MHz:	802.11n(HT40)/ac(VHT40)/ax(HE40)/be(EHT40)		
	80MHz:	802.11ac(VHT80)/ax(HE80)/be(EHT80)		
Antenna Type:	FPC Anten	ntenna		
Antenna Gain:	5150MHz to 5250MHz: 1.55dBi(Ant2); -2.31dBi(Ant3) 5250MHz to 5350MHz: 1.18dBi(Ant2); -3.45dBi(Ant3) 5470MHz to 5725MHz: 4.69dBi(Ant2); -1.37dBi(Ant3) 5725MHz to 5850MHz: 4.99dBi(Ant2); -1.49dBi(Ant3)			
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.			
Smort System	⊠ SISO	802.11a		
Smart System:	⊠ MIMO			
TPC Function:	⊠Support,	rt,		
DFS Function:	□Master			
DI OT UNGUOTI.	☐Slave wi	th radar detection	⊠Slave without radar detection	
RF Cable:	2dB	2dB		
Remark:				

Remark

- 1.As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.
- 2. The device does not support 802.11ax OFDMA Partial RU tones (26T, 52T, 106T, etc.)
- 3.In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:



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Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5180		
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5200		
	The Highest channel	5240		
IFFF 902 11n/o /ox 40MHz	The Lowest channel	5190		
IEEE 802.11n/ac/ax 40MHz	The Highest channel	5230		
IEEE 802.11ac/ax 80MHz	The Middle channel	5210		

For UNII Band II-A:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5260		
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5280		
	The Highest channel	5320		
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5270		
	The Highest channel	5310		
IEEE 802.11ac/ax 80MHz	The Middle channel	5290		



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For UNII Band II-C:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5500		
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5580		
	The Highest channel	5700		
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5510		
	The Middle channel	5550		
	The Highest channel	5670		
IEEE 802.11ac/ax 80MHz	The Middle channel	5530		

For UNII Band III:								
Mode	Channel	Frequency(MHz)						
	The Lowest channel	5745						
IEEE 802.11a/n/ac/ax 20MHz	The Middle channel	5785						
	The Highest channel	5825						
IEEE 802.11n/ac/ax 40MHz	The Lowest channel	5755						
	The Highest channel	5795						
IEEE 802.11ac/ax 80MHz	The Middle channel	5775						



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2.5 Test Environment and Mode

Environment Parameter	101 kPa Selected Values During Tests					
Relative Humidity	44-46 % RH Ambient					
Value	Temperature(°C)	Voltage(V)				
NTNV	22~23	3.87				

Remark:

NV: Normal VoltageNT: Normal Temperature

2.6 Description of Support Units

Description	Manufacturer	Model No.	FCC ID		
Router	ASUS	GT-AXE11000	MSQ-RTAXJF00		

2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	CDD/MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	/	MCS0 (13 Mbps)
802.11n (HT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 20)	/	MCS0 (13 Mbps)
802.11ac (VHT 40)	/	MCS0 (27 Mbps)
802.11ac (VHT 80)	/	MCS0 (58.5 Mbps)
802.11ax (HE 20)	/	MCS0 (16 Mbps)
802.11ax (HE 40)	/	MCS0 (32 Mbps)
802.11ax (HE 80)	/	MCS0 (68 Mbps)



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3 Equipment List

3	Equipment List								
Cond	Conducted Emission at Mains Terminals								
1	EMI Test Receive	R&S	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026			
2	LISN	R&S	ENV216	SUWI-01-19-03	5/8/2025	5/7/2026			
3	LISN	Schwarzbeck	ENV216	SUWI-01-19-04	5/8/2025	5/7/2026			
6	Test Software	Tonscend	JS32- CE_4.0.0.2	SUWI-02-09-05	N.C.R	N.C.R			
RF C	conducted Test	l			1				
1	Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	11/9/2022	11/8/2025			
2	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	5/8/2025	5/7/2026			
9	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-15	11/21/2024	11/20/2025			
7	MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	1/15/2025	1/14/2026			
8	Signal Generator	ROHDE&SCHWARZ	SMW200A	SUWI-01-07-08	3/27/2025	3/26/2026			
10	MXG Vector Signal Generator	ROHDE&SCHWARZ	SMR20	SUWI-01-33-01	3/17/2025	3/16/2026			
3	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-13	5/8/2025	5/7/2026			
11	Wideband Radio Communication Test Ststion	Anritsu	MT8000A	SUWI-01-34-02	11/19/2024	11/18/2025			
12	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025			
5	Power meter	Anritsu	ML2495A	SUWI-01-31-01	11/19/2024	11/18/2025			
6	Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	11/19/2024	11/18/2025			
4	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026			
13	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2/13/2025	2/12/2026			
14	Temperature Chamber	GIANT FORCE	ICT-017-40- SP-SD	SUWI-01-13-02	5/7/2025	5/6/2026			
15	Measurement Software	TST	TST 272 V2.0	SUWI-03-55-03	NCR	NCR			
RF R	adiated Test								
1	Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	6/3/2023	6/2/2026			
4	Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	1/20/2025	1/19/2026			
5	Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-09	11/21/2024	11/20/2025			
6	Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	1/15/2025	1/14/2026			
8	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	VULB 9168	SUWI-01-11-04	8/22/2024	8/21/2026			
9	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	5/7/2025	5/6/2027			
10	Receiving antenna	SCHWRZBECK MESS- ELEKTRONIK	BBHA 9170	SUWI-01-11-03	5/7/2025	5/6/2027			
11	Active Loop Antenna	SCHWRZBECK MESS- ELEKTRONIK	FMZB 1519B	SUWI-01-21-01	5/7/2025	5/6/2027			



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12	Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	1/16/2025	1/15/2026
13	Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	1/16/2025	1/15/2026
14	Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	1/20/2025	1/19/2026
15	Wideband Radio Communication Tester	Anritsu	MT8820C	SUWI-01-26-01	5/8/2025	5/7/2026
16	Wideband Radio Communication Tester	Anritsu	MT8821C	SUWI-01-26-03	11/19/2024	11/18/2025
17	Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-09	5/8/2025	5/7/2026
18	Radio Communication Analyzer	StarPoint	SP9500E	SUWI-01-28-02	11/19/2024	11/18/2025
3	Signal Generator	ROHDE&SCHWARZ	SMB100A	SUWI-01-08-01	1/16/2025	1/15/2026
7	DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	1/15/2025	1/14/2026
2	Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2/13/2025	2/12/2026
19	Measurement Software	Tonscend	JS32-RSE 4.0.0.1	SUWI-02-09-06	NCR	NCR

Remark: NCR=No Calibration Requirement.



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4 Measurement Uncertainty (95% confidence levels, k=2)

aromonic onoortainty (0070			
Item	Measurement Uncertainty		
Total RF power, conducted	±0.54dB		
RF power density, conducted	±1.03dB		
Spurious emissions, conducted	±0.54dB		
Radio Frequency	1%		
Duty Cycle	±0.37%		
Occupied Bandwidth	1%		
Conduction Emission	± 2.90dB (150kHz to 30MHz)		
	± 3.13dB (9k -30MHz)		
Dadiated Emission	± 4.8dB (30M -1GHz)		
Radiated Effission	± 4.8dB (1GHz to 18GHz)		
	± 4.80dB (Above 18GHz)		
	Item Total RF power, conducted RF power density, conducted Spurious emissions, conducted Radio Frequency Duty Cycle Occupied Bandwidth		

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispr/ETSI} (CISPR/ETSI Uncertainty), so the test results

⁻ compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;

⁻ non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15 Section 15.203

The antenna is FPC Antenna and no consideration of replacement. The best case gain of the antenna is

5150MHz to 5250MHz: 1.55dBi(Ant2); -2.31dBi(Ant3) 5250MHz to 5350MHz: 1.18dBi(Ant2); -3.45dBi(Ant3) 5470MHz to 5725MHz: 4.69dBi(Ant2); -1.37dBi(Ant3) 5725MHz to 5850MHz: 4.99dBi(Ant2); -1.49dBi(Ant3)

Note:

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.



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Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,
 Array Gain = 10 log(N_{ANT}/N_{SS} = 1) dB.
- For power measurements on IEEE 802.11 devices:
 Array Gain = 0 dB (i.e., no array gain) for N_{ANT} ≤ 4;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

All antennas have Unequal antenna gain:

Operation Frequency	ANT Gain0 (dBi)	ANT Gain1 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	1.55	-2.31	1.55	2.84	0	0
5250MHz to 5350MHz	1.18	-3.45	1.18	2.18	0	0
5470MHz to 5725MHz	4.69	-1.37	4.69	5.19	0	0
5725MHz to 5850MHz	4.99	-1.49	4.99	5.35	0	0

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) =0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0 5470MHz to 5725MHz:

Power Limit Reduction = Directional gain -6dBi, (Directional gain <6dBi) =0 PSD Limit Reduction = Directional gain -6dBi, (Directional gain <6dBi) =0 5725MHz to 5850MHz:

Power Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0 PSD Limit Reduction = Directional gain - 6dBi, (Directional gain < 6dBi) = 0



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5.2 AC Power Line Conducted Emissions

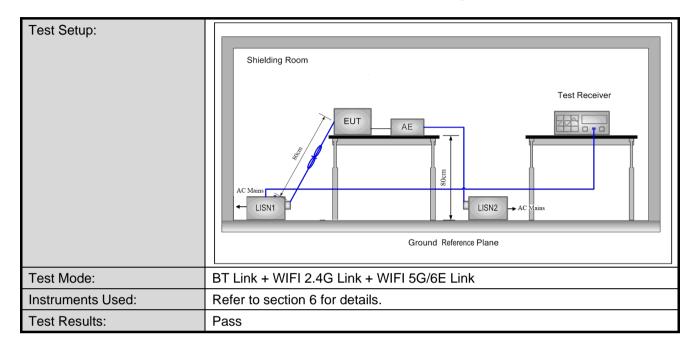
Test Requirement:	47 CFR Part 15 Section	15.207				
Test Method:	ANSI C63.10: 2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30	lkHz				
Limit:	Fraguera (MIII-)	Limit (d	BuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	room. 2) The EUT was connected impedance Stabilizated impedance. The power connected to a second plane in the same was multiple socket outlets single LISN provided. 3) The tabletop EUT was ground reference plane placed on the horizor. 4) The test was performed of the EUT shall be overtical ground reference plane. The unit under test and be mounted on top of the between the closest plane in the EUT and associated. 5) In order to find the man equipment and all of	cted to AC power source throusion Network) which provides are cables of all other units of and LISN 2, which was bonded by as the LISN 1 for the unit by strip was used to connect must be rating of the LISN was not as placed upon a non-metallic ne. And for floor-standing arrantal ground reference plane, and with a vertical ground reference plane was bonded to the LISN 1 was placed 0.8 m frow onded to a ground reference plane. The points of the LISN 1 and the Extended equipment was at least 0 aximum emission, the relative the interface cables must be on conducted measurement.	ugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were I to the ground reference eing measured. A ultiple power cables to a of exceeded. I table 0.8m above the angement, the EUT was erence plane. The rear reference plane. The endizontal ground m the boundary of the plane for LISNs is distance was EUT. All other units of the positions of			



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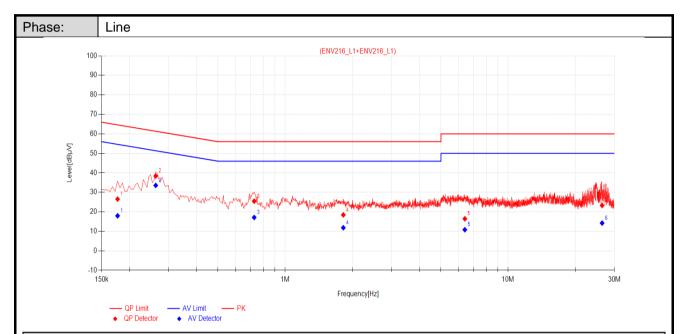


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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Fina	l Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1770	10.08	16.47	26.55	64.63	38.08	7.86	17.94	54.63	36.69	PASS
2	0.2625	10.07	28.31	38.38	61.35	22.97	23.48	33.55	51.35	17.80	PASS
3	0.7260	10.06	15.40	25.46	56.00	30.54	7.05	17.11	46.00	28.89	PASS
4	1.8240	9.85	8.58	18.43	56.00	37.57	1.98	11.83	46.00	34.17	PASS
5	6.4005	9.81	6.61	16.42	60.00	43.58	1.01	10.82	50.00	39.18	PASS
6	26.4390	9.64	13.65	23.29	60.00	36.71	4.58	14.22	50.00	35.78	PASS

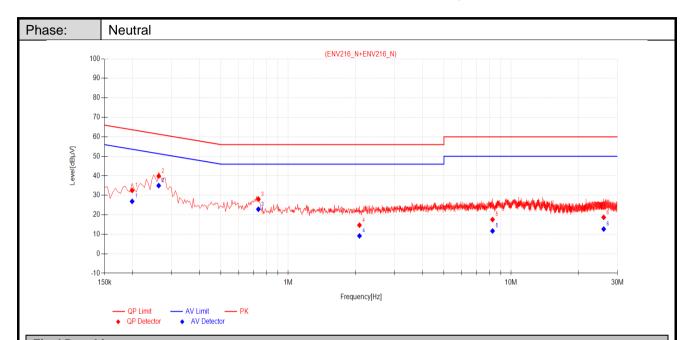
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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Final	Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1995	10.08	22.42	32.50	63.63	31.13	16.80	26.88	53.63	26.75	PASS
2	0.2625	10.08	29.79	39.87	61.35	21.48	24.89	34.97	51.35	16.38	PASS
3	0.7350	10.06	17.97	28.03	56.00	27.97	12.79	22.85	46.00	23.15	PASS
4	2.0895	9.91	4.76	14.67	56.00	41.33	-0.73	9.18	46.00	36.82	PASS
5	8.2635	9.80	7.73	17.53	60.00	42.47	1.89	11.69	50.00	38.31	PASS
6	26.0520	9.65	9.03	18.68	60.00	41.32	3.02	12.67	50.00	37.33	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dB μ V] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]



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5.3 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

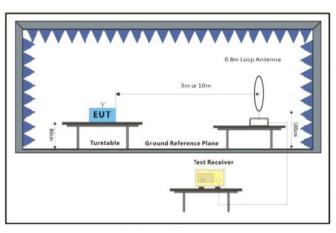
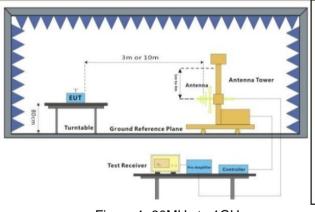


Figure 1. 9kHz to 30MHz



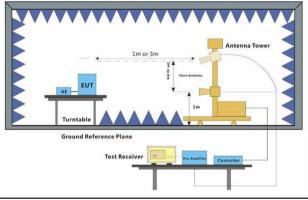


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- a. For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
 (Distance from antenna to EUT is 1m for measurements >18GHz).
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height 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.
- e. 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



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rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed. l. At a measurement distance of 1 meter the limit line was increased by 20°LOG(3/1) = 9.54 dB. Test Configuration: Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 10 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty c		
i. Repeat above procedures until all frequencies measured was complete. j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported k. The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics was the highest point could be found when testing, so only the harmonics was increased by 20°LOG(3/1) = 9.54 dB. Test Configuration: Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 3 Hz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 1 MHz • VBW ≥ 1 Th, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent there Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Final Test Mode: Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. Instruments Used: Refer to section 6 for details.		 maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for
highest point could be found when testing, so only the harmonics had been displayed. I. At a measurement distance of 1 meter the limit line was increased by 20°LOG(3/1) = 9.54 dB. Measurements below 30MHz • RBW = 10 kHz • VBW = 30 kHz • Detector = Peak & Average & Quasi-peak • Trace mode = max hold Measurements Below 1000MHz • RBW = 120 kHz • VBW = 300 kHz • Detector = Quasi-peak • Trace mode = max hold Peak Measurements Above 1000 MHz • RBW = 1 MHz • VBW ≥ 3 MHz • Detector = Peak • Sweep time = auto • Trace mode = max hold Average Measurements Above 1000MHz • RBW = 1 MHz • VBW ≥ 10Hz, when duty cycle is no less than 98 percent. • VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Final Test Mode: Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. Instruments Used: Refer to section 6 for details. Test Results: Pass		i. Repeat above procedures until all frequencies measured was complete.j. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and
Test Configuration: Measurements below 30MHz RBW = 10 kHz VBW = 30 kHz Detector = Peak & Average & Quasi-peak Trace mode = max hold Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Measurements Above 1000 MHz RBW = 10 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW ≥ 1/T, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. Refer to section 6 for details. Refer to section 6 for details.		highest point could be found when testing, so only the harmonics had been
 RBW = 10 kHz VBW = 30 kHz Detector = Peak & Average & Quasi-peak Trace mode = max hold Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 17T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. Instruments Used: Refer to section 6 for details. Test Results: 		· · · · · · · · · · · · · · · · · · ·
Exploratory Test Mode: Transmitting with all kind of modulations, data rates. Final Test Mode: Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. Instruments Used: Refer to section 6 for details. Test Results: Pass	Test Configuration:	 RBW = 10 kHz VBW = 30 kHz Detector = Peak & Average & Quasi-peak Trace mode = max hold Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its
For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report. Instruments Used: Refer to section 6 for details. Test Results: Pass	Exploratory Test Mode:	
Test Results: Pass		Refer to section 3.7 for details. For below 1GHz part, through pre-scan all channels, but only the worst case is
	Instruments Used:	Refer to section 6 for details.
The detailed test data see: Appendix	Test Results:	Pass
	The detailed test data see	e: Appendix



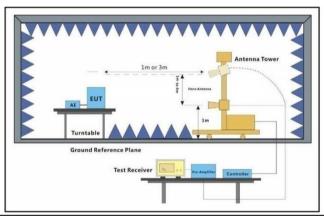
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5.4 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)							
Test Method:	ANSI C63.10: 2013 Section 12.7							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Limit:	Frequency	Limit (dBuV/m)	Remark					
	30MHz-88MHz	40.0	Quasi-peak					
	88MHz-216MHz	43.5	Quasi-peak					
	216MHz-960MHz	46.0	Quasi-peak					
	960MHz-1GHz	54.0	Quasi-peak					
	Above 1GHz	54.0	Average Value					
	Above IGHZ	74.0	Peak Value					

Test Setup:



Test Procedure:

- a. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. 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 antenna height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.
- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.



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Test Configuration:	Measurements Below 1000MHz
	• RBW = 120 kHz
	• VBW = 300 kHz
	Detector = Quasi-peak
	Trace mode = max hold
	Peak Measurements Above 1000 MHz
	• RBW = 1 MHz
	• VBW ≥ 3 MHz
	Detector = Peak
	Sweep time = auto
	Trace mode = max hold
	Average Measurements Above 1000MHz
	• RBW = 1 MHz
	VBW = 10Hz, when duty cycle is no less than 98 percent.
	 VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	e: Appendix



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6 Photographs - Setup Photos

Refer to Appendix A.2 WLAN Setup Photos.

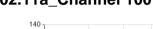


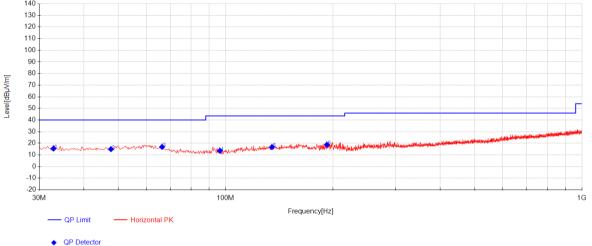
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7 Appendix

Radiated Spurious Emissions Radiated emission below 1GHz Worst case Mode: 802.11a_Channel 100



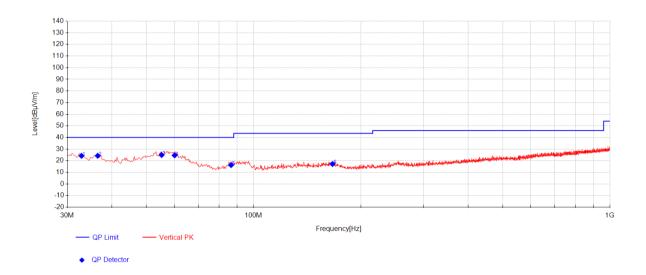


Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	32.91	31.35	18.10	-33.98	15.47	40.00	24.53	152	20	Horizontal		
2	47.7025	29.87	18.83	-33.73	14.97	40.00	25.03	196	190	Horizontal		
3	66.375	33.10	17.23	-33.47	16.86	40.00	23.14	234	221	Horizontal		
4	96.445	32.49	14.24	-33.17	13.56	43.50	29.94	187	260	Horizontal		
5	135.0025	31.04	18.50	-32.80	16.74	43.50	26.76	254	292	Horizontal		
6	192.475	35.67	15.36	-32.31	18.72	43.50	24.78	162	292	Horizontal		



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Final	Final Data List											
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity		
1	32.91	40.11	18.10	-33.98	24.23	40.00	15.77	252	265	Vertical		
2	36.5475	39.79	18.41	-33.92	24.28	40.00	15.72	187	209	Vertical		
3	55.22	40.37	18.20	-33.62	24.95	40.00	15.05	261	341	Vertical		
4	60.07	40.69	17.50	-33.55	24.64	40.00	15.36	183	310	Vertical		
5	86.5025	35.16	14.40	-33.29	16.27	40.00	23.73	224	287	Vertical		
6	166.5275	30.91	18.75	-32.47	17.19	43.50	26.31	191	11	Vertical		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Value = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Value($dB\mu V/m$)

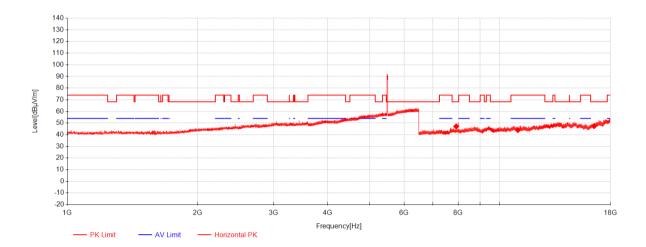
2) All channels have been tested, but only the worst case data displayed in this report.



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Transmitter emission Above 1GHz 802.11a_Channel 100



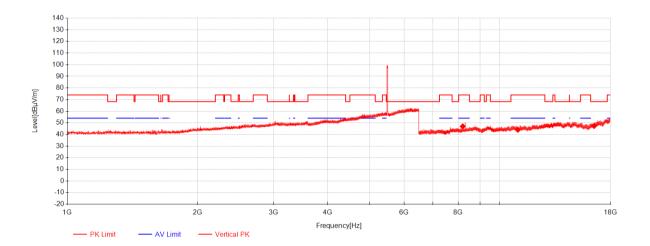
Data	List							
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity
1	7924.85	47.02	37.02	-36.91	47.14	68.30	21.16	Horizontal
2	11000	36.11	38.40	-30.50	44.01	74.00	29.99	Horizontal
3	16500	35.44	38.55	-26.60	47.39	68.30	20.91	Horizontal



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802.11a_Channel 100



Data	Data List										
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity			
1	8205.45	45.99	37.20	-36.21	46.99	74.00	27.01	Vertical			
2	11000	36.12	38.40	-30.50	44.02	74.00	29.98	Vertical			
3	16500	35.36	38.55	-26.60	47.31	68.30	20.99	Vertical			

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

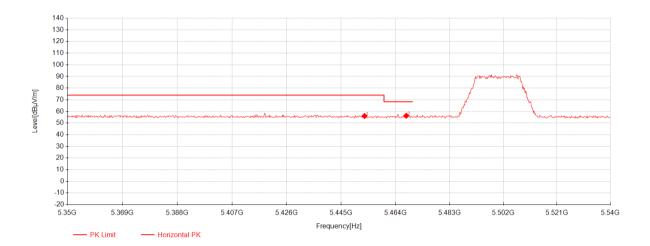
- 2) All channels have been tested, but only the worst case data displayed in this report.
- 3) Both peak and average measured complies with the limit line, so test result is "PASS"



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Restricted bands around fundamental frequency 802.11a_Channel 100



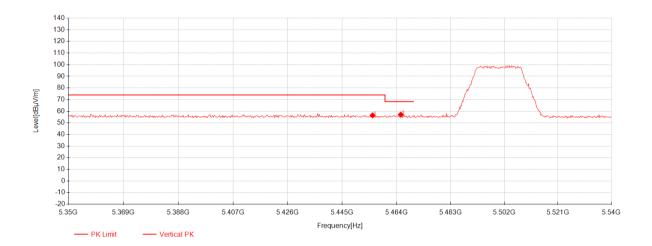
Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	5453.17	38.52	33.11	-15.52	56.11	74.00	17.89	Horizontal		
2	5467.8	38.61	33.11	-15.43	56.28	68.30	12.02	Horizontal		



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802.11a_Channel 100



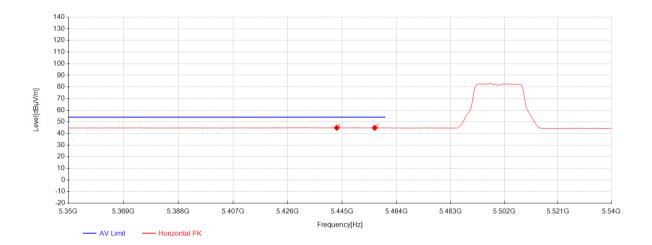
Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	5455.64	38.82	33.11	-15.50	56.43	74.00	17.57	Vertical		
2	5465.52	39.42	33.11	-15.45	57.08	68.30	11.22	Vertical		



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802.11a_Channel 100



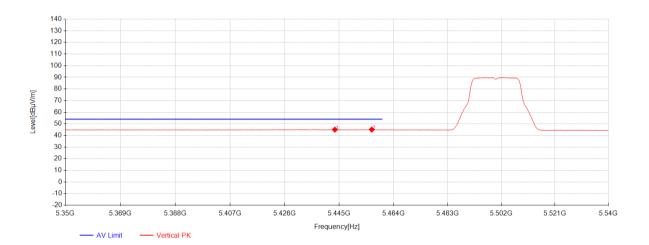
Data List									
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	
1	5443.1	27.33	33.11	-15.57	44.87	54.00	9.13	Horizontal	
2	5456.4	27.24	33.11	-15.50	44.85	54.00	9.15	Horizontal	



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802.11a_Channel 100



Data	Data List									
NO.	Frequency [MHz]	Reading [dBµV]	AF [dB/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity		
1	5443.48	27.49	33.11	-15.57	45.03	54.00	8.97	Vertical		
2	5456.4	27.51	33.11	-15.50	45.12	54.00	8.88	Vertical		

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading($dB\mu V$) + AF(dB/m) + Factor(dB):

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier gain(dB)

Margin = Limit($dB\mu V/m$) – Level($dB\mu V/m$)

2) Both peak and average measured complies with the limit line, so test result is "PASS"

---End of Report---