

Report No.: SHCR230400079101

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TEST REPORT

Application No.: SHCR2304000791ME

FCC ID: 2AK34-STEMI305CAM

IC: 21444-STEMI305CAM

Applicant: Carl Zeiss Suzhou Co., Ltd.

Address of Applicant: Modern Industrial Square 3-B, NO. 333, Xing Pu Road, SIP, 215216,

Suzhou, China

Manufacturer: Carl Zeiss Suzhou Co., Ltd.

Address of Manufacturer: Modern Industrial Square 3-B, NO. 333, Xing Pu Road, SIP, 215216,

Suzhou, China

Factory: Carl Zeiss Suzhou Co., Ltd.

Address of Factory: Modern Industrial Square 3-B, NO. 333, Xing Pu Road, SIP, 215216,

Suzhou, China

Equipment Under Test (EUT):

EUT Name: Stereo microscope **Model No.:** Stemi 305 cam W body

Trade Mark: Zeiss

Standard(s): 47 CFR Part 15, Subpart C 15.247

RSS-247 Issue 3, August 2023

RSS-Gen Issue 5 Amendment 2 (February 2021)

Date of Receipt: 2023-04-21

Date of Test: 2023-05-07 to 2023-06-03

Date of Issue: 2024-01-15

Test Result: Pass*

Parlam Zhan



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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Revision Record					
Version	Description	Date	Remark		
00	Original	2024-01-15	1		

Authorized for issue by:		
	Wade thoug	
	Wade Zhang/Project Engineer	
	Parlam Zhan	
	Parlam Zhan / Reviewer	



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Test Summary 2

Radio Spectrum Technical Requirement							
Item	FCC Requirement	IC Requirement	Method	Result			
Antenna Requirement	47 CFR Part 15, Subpart C 15.203 & 15.247(c)	RSS-Gen Clause 6.8	N/A	Customer Declaration			

N/A: Not applicable

Radio Spectrum Matter Part						
Item	FCC Requirement	IC Requirement	Method	Result		
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207	RSS-Gen Clause 8.8	ANSI C63.10 (2013) Section 6.2	Pass		
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247a(2)	RSS-247 Clause 5.2(a)	ANSI C63.10 (2013) Section 11.8.1	Pass		
Conducted Average Output Power	47 CFR Part 15, Subpart C 15.247(b)(3)	RSS-247 Clause 5.4(d)	ANSI C63.10 (2013) Section 11.9.2	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247(e)	RSS-247 Clause 5.2(b)	ANSI C63.10 (2013) Section 11.10.3	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.13.3.2	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247(d)	RSS-247 Clause 5.5	ANSI C63.10 (2013) Section 11.11	Pass		
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.10.5	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	ANSI C63.10 (2013) Section 6.4,6.5,6.6	Pass		
99% Bandwidth	-	RSS-Gen Section 6.7	ANSI C63.10 Section 6.9.3	Pass		



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General Information

4.1 Details of E.U.T.

Power supply:	DC 5V 2A Max from microscope stand.		
Test Voltage:	AC 120V 60Hz for microscope stand		
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz		
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK);802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Number of Channels:	802.11b/g/n(HT20):11;802.11n(HT40):7		
Channel Spacing:	5MHz		
Antonno Typo:	Antenna 1: FPC Antenna		
Antenna Type:	Antenna 2: FPC Antenna		
	Antenna 1: 3.40dBi		
Antenna Gain:	Antenna 2: 3.40dBi		
Antenna Gam.	(Provided by manufacturer)		
	Directional gain: 6.41dBi		
Antenna Number:	2		
Date Rate:	802.11b:1/2/5.5./11Mbps		
	802.11g:6/9/12/18/24/36/48/54Mbps		
	802.11n:MCS0-MCS7		
S/N:	3948100001		
Firmware Version:	V1.0.15		

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Microscope stand	Zeiss	-	-
Laptop	LENOVO	L460	-
SecureCRT	VanDyke	V 6.2.0	-
Serial port adapter plate	-	Test Plate 3	-

4.3 Power level setting using in test

Channel	802	802.11b		802.11g		802.11n(HT20)		802.11n(HT40)	
	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
Low	42	45	52	55	48	49	48	51	
Middle	41	44	51	54	47	48	49	51	
High	42	44	52	55	47	49	48	50	



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4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 ⁻⁸
2	Timeout	2s
3	Duty cycle	0.4%
4	Occupied Bandwidth	3%
5	RF conducted power	0.6dB
6	RF power density	2.9dB
7	Conducted Spurious emissions	0.75dB
0	DE Dadieted never	5.2dB (Below 1GHz)
8	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
	De diete d Counierre ensisaien teet	4.5dB (30MHz-1GHz)
9	Radiated Spurious emission test	5.1dB (1GHz-6GHz)
		5.4dB (6GHz-18GHz)
10	Temperature test	1°C
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).



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4.6 Test Facility

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

A2LA (Certificate No. 6332.01)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA).

FCC (Designation Number: CN1301)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been recognized as an accredited testing laboratory.

• ISED (CAB Identifier: CN0020)

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. EMC Laboratory has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 8617A

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-13868, C-14336, T-12221, G-10830 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2022-12-20	2023-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2022-08-02	2023-08-01
Signal Generator	R&S	SMR20	SHEM006-1	2022-08-02	2023-08-01
Signal Generator	Agilent	N5182A	SHEM182-1	2022-08-02	2023-08-01
Communication Tester	R&S	CMW270	SHEM183-1	2023-06-01	2024-05-31
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	1	1
Coupler	e-meca	803-S-1	SHEM186-1	1	1
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2022-11-08	2024-11-07
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2022-12-20	2023-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2022-12-20	2023-12-19
Conducted test Cable	1	RF01~RF04	/	2022-12-20	2023-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	/	/
Coaxial Cable	TST		SHEM263-1	2022-08-02	2023-08-01
Test software	TST	TST PASS	Version: 2.0	/	/
RF Radiated Test					
EMI test Receiver	R&S	ESU40	SHEM051-1	2022-12-20	2023-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2022-12-20	2023-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2023-06-01	2024-05-31
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2022-12-20	2023-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2022-05-07	2024-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022-08-11	2024-08-10
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2021-09-18	2023-09-17
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2021-09-18	2023-09-17
Pre-Amplifier	HP	8447D	SHEM236-1	2022-08-02	2023-08-01
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2022-12-20	2023-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	1	1
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	1	1
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	1	1
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	1	1
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	1	1
High pass Filter	Wainwright	WHKS1700	SHEM157-3	1	1
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2021-05-25	2024-05-24
RE test Cable	1	RE01, RE02, RE06	1	2023-01-07	2024-01-06
Test software	ESE	E3	Version: 6.111221a	1	/



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Conducted Emissions at AC Mains Power Port (150kHz-30MHz)									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
EMI test receiver	Rohde & Schwarz	ESR7	SHEM162-1	2022/12/20	2023/12/19				
Line impedance stabilization network	SCHWARZBECK	NSLK8127	SHEM061-1	2022/12/20	2023/12/19				
Line impedance stabilization network	EMCO	3816_2	SHEM019-1	2022/12/20	2023/12/19				
Pulse limiter	Rohde & Schwarz	ESH3-Z2	SHEM029-1	2022/12/20	2023/12/19				
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2020/12/20	2023/12/19				
CE test Cable	1	1	SHEM172-1	2022/12/20	2023/12/19				
Test Software	ESE	e3	Version: 6.191211	N/A	N/A				



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement:

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, 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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna 1 and antenna 2 is FPC antenna and no consideration of replacement. The best case gain of the Antenna 1: 3.40dBi; Antenna 2: 3.40dBi; the directional gain is: 6.41dBi.

Antenna location: Refer to internal photo.



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Radio Spectrum Matter Test Results

Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amicaia (MILL)	Conducted limit(dBµV)						
Frequency of emission(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 logarithm of	the frequency.						
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz							

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Atmospheric Pressure: 1010 mbar Humidity: % RH

7.1.2 Test Mode Description

71112 10001		
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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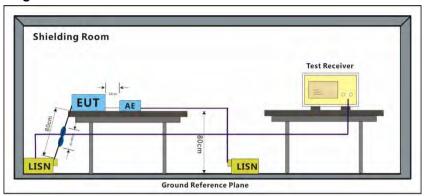
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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50 \text{ohm}/50 \mu\text{H} + 5 \text{ohm}$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor



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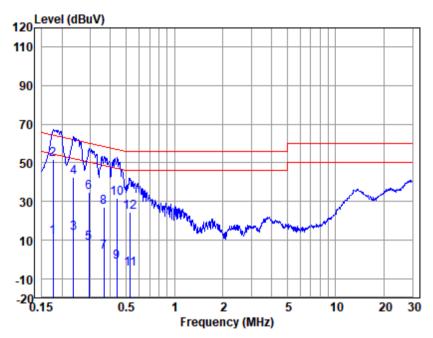
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Test Mode: 00; Line: Live line



LISN : LINE EUT/Project No: 0791ME

Test Mode

	Freq	Read	LISN	Cable	Emission		Over	
		level	Factor	Loss	Level	Limit	Limit	Remark
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.18	1.26	0.40	9.87	11.53	54.64	-43.11	Average
2	0.18	41.56	0.40	9.87	51.83	64.64	-12.81	QP
3	0.24	3.44	0.36	9.87	13.67	52.26	-38.59	Average
4	0.24	32.25	0.36	9.87	42.48	62.26	-19.78	QP
5	0.29	-1.73	0.32	9.87	8.46	50.41	-41.95	Average
6	0.29	24.38	0.32	9.87	34.57	60.41	-25.84	QP
7	0.37	-6.38	0.27	9.87	3.76	48.61	-44.85	Average
8	0.37	16.75	0.27	9.87	26.89	58.61	-31.72	QP
9	0.44	-11.33	0.23	9.87	-1.23	47.07	-48.30	Average
10	0.44	21.31	0.23	9.87	31.41	57.07	-25.66	QP
11	0.53	-14.98	0.20	9.86	-4.92	46.00	-50.92	Average
12	0.53	14.49	0.20	9.86	24.55	56.00	-31.45	QP
No	tes: Em	ission Le	vel = Re	ad Leve	1 +LISN F	actor +	Cable los	s



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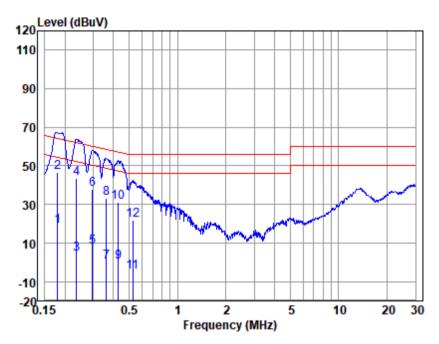
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Test Mode: 00; Line: Neutral Line



LISN : NEUTRAL EUT/Project No: 0791ME

Test Mode

	Freq	Read	LISN	Cable	Emission	1	0ver			
		level	Factor	Loss	Level	Limit	Limit	Remark		
	(MHz)	(dBuV)	(dB)	(dB)	(dBuV)	(dBuV)	(dB)			
1	0.18	8.38	0.32	9.87	18.57	54.50	-35.93	Average		
2	0.18	36.32	0.32	9.87	46.51	64.50	-17.99	QP		
3	0.24	-5.89	0.30	9.87	4.28	52.26	-47.98	Average		
4	0.24	33.56	0.30	9.87	43.73	62.26	-18.53	QP		
5	0.30	-2.38	0.30	9.87	7.79	50.37	-42.58	Average		
6	0.30	27.93	0.30	9.87	38.10	60.37	-22.27	QP		
7	0.36	-9.94	0.30	9.87	0.23	48.69	-48.46	Average		
8	0.36	23.26	0.30	9.87	33.43	58.69	-25.26	QP		
9	0.43	-10.25	0.30	9.87	-0.08	47.24	-47.32	Average		
10	0.43	20.89	0.30	9.87	31.06	57.24	-26.18	QP		
11	0.53	-14.98	0.30	9.86	-4.82	46.00	-50.82	Average		
12	0.53	11.51	0.30	9.86	21.67	56.00	-34.33	QP		
No	Notes: Emission Level = Read Level +LISN Factor + Cable loss									



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7.2 Radiated Emissions which fall in the restricted bands

47 CFR Part 15, Subpart C 15.205 & 15.209 Test Requirement

ANSI C63.10 (2013) Section 6.10.5 Test Method:

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

1.2.2 163t W		501.puon
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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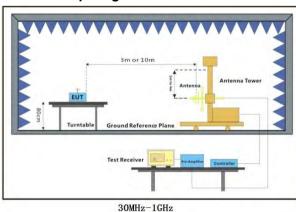
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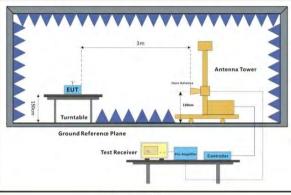


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7.2.3 Test Setup Diagram





Above 1GHz

7.2.4 Measurement Procedure and Data

- a. For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.
- Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report. Remark3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n

modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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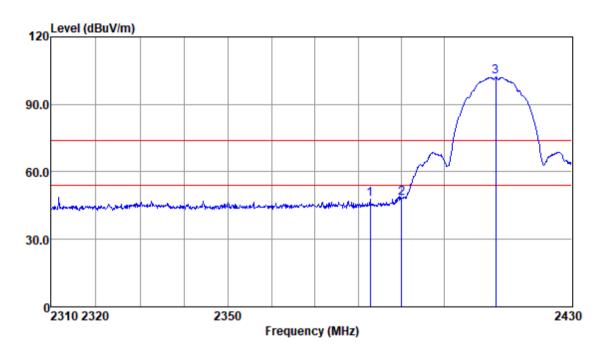
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2382.72	51.22	28.76	3.14	35.17	47.95	74.00	-26.05	Peak
2390.00	51.33	28.80	3.13	35.18	48.08	74.00	-25.92	Peak
2411.98	105.28	28.90	3.13	35.20	102.11	74.00	28.11	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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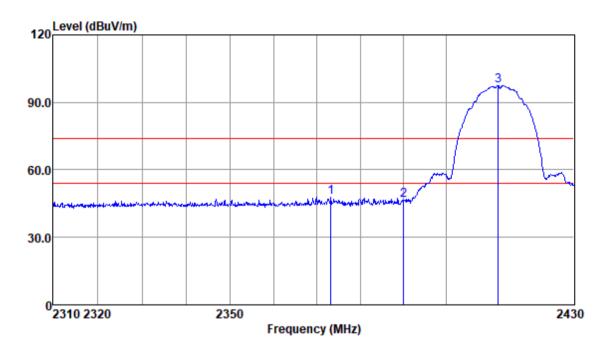
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2373.20	51.34	28.71	3.14	35.17	48.02	74.00	-25.98	Peak
2390.00	49.72	28.80	3.13	35.18	46.47	74.00	-27.53	Peak
2412.10	100.62	28.90	3.13	35.20	97.45	74.00	23.45	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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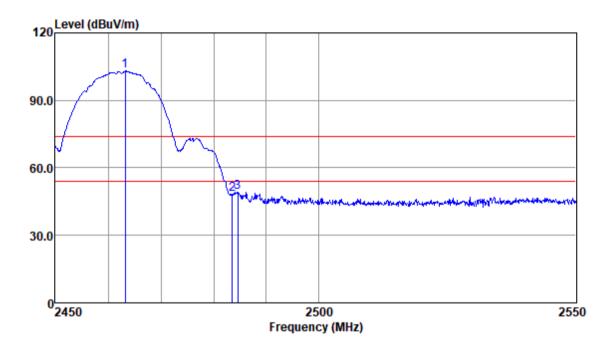
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2463.17	106.02	29.05	3.16	35.24	102.99	74.00	28.99	Peak
2483.50	51.10	29.09	3.20	35.26	48.13	74.00	-25.87	Peak
2484.55	52.34	29.09	3.20	35.26	49.37	74.00	-24.63	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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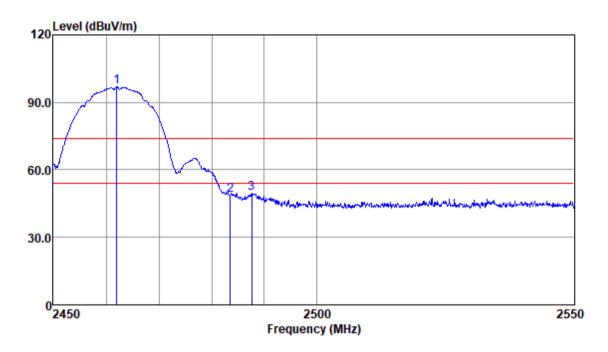
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2461.99	99.88	29.05	3.16	35.24	96.85	74.00	22.85	Peak
2483.50	51.75	29.09	3.20	35.26	48.78	74.00	-25.22	Peak
2487.63	52.43	29.09	3.23	35.26	49.49	74.00	-24.51	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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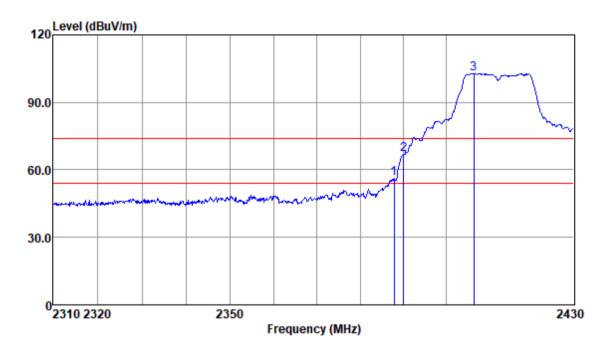
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.79	59.43	28.80	3.13	35.18	56.18	74.00	-17.82	Peak
2390.00	70.03	28.80	3.13	35.18	66.78	74.00	-7.22	Peak
2406.36	105.91	28.89	3.13	35.20	102.73	74.00	28.73	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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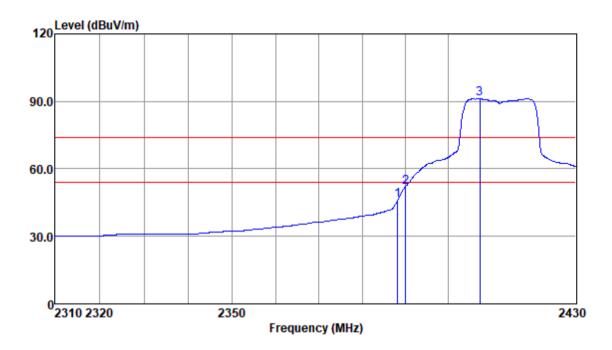
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.15	49.28	28.80	3.13	35.18	46.03	54.00	-7.97	Average
2390.00	55.18	28.80	3.13	35.18	51.93	54.00	-2.07	Average
2407.34	94.35	28.89	3.13	35.20	91.17	54.00	37.17	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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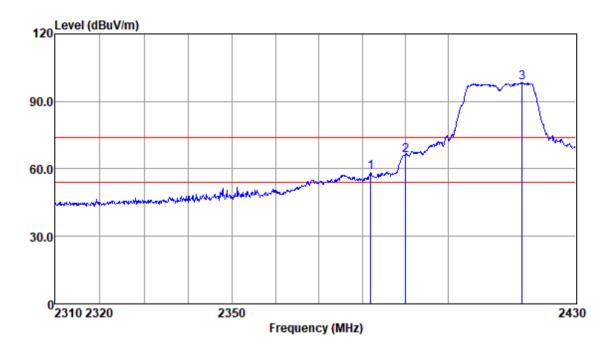
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2381.99	61.93	28.76	3.14	35.17	58.66	74.00	-15.34	Peak
2390.00	69.27	28.80	3.13	35.18	66.02	74.00	-7.98	Peak
2417.24	101.69	28.90	3.13	35.20	98.52	74.00	24.52	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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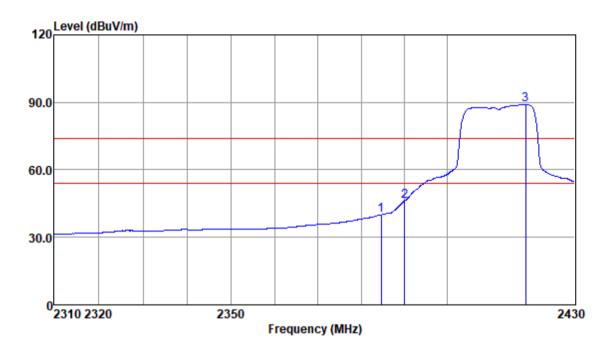
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2384.65	43.26	28.80	3.14	35.18	40.02	54.00	-13.98	Average
2390.00	49.33	28.80	3.13	35.18	46.08	54.00	-7.92	Average
2418.34	92.27	28.92	3.13	35.21	89.11	54.00	35.11	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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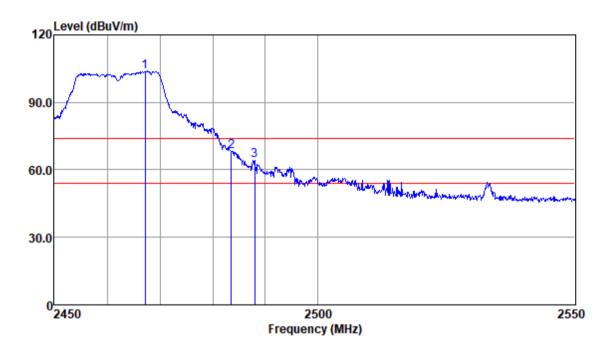
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.11	106.59	29.05	3.16	35.24	103.56	74.00	29.56	Peak
2483.50	71.29	29.09	3.20	35.26	68.32	74.00	-5.68	Peak
2488.03	67.23	29.09	3.23	35.26	64.29	74.00	-9.71	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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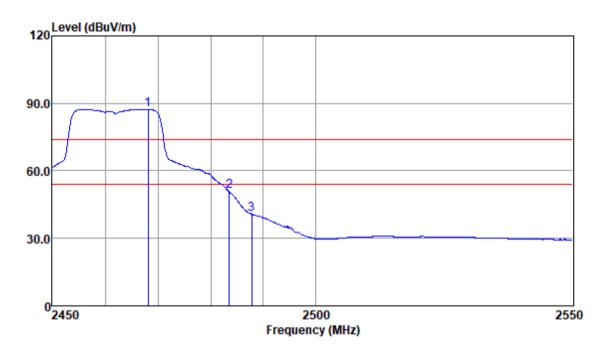
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2468.10	90.38	29.06	3.16	35.25	87.35	54.00	33.35	Average
2483.50	53.85	29.09	3.20	35.26	50.88	54.00	-3.12	Average
2487.83	43.72	29.09	3.23	35.26	40.78	54.00	-13.22	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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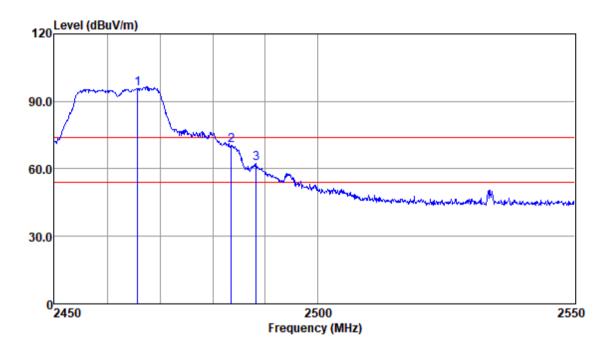
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2465.73	98.88	29.05	3.16	35.24	95.85	74.00	21.85	Peak
2483.50	73.59	29.09	3.20	35.26	70.62	74.00	-3.38	Peak
2488.33	65.16	29.09	3.23	35.26	62.22	74.00	-11.78	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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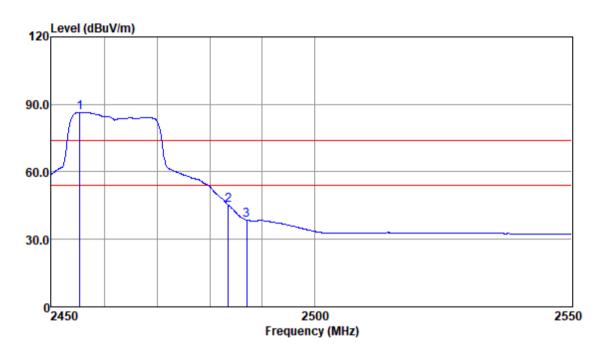
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2455.40	89.54	29.04	3.16	35.24	86.50	54.00	32.50	Average
2483.50	48.35	29.09	3.20	35.26	45.38	54.00	-8.62	Average
2487.03	41.59	29.09	3.20	35.26	38.62	54.00	-15.38	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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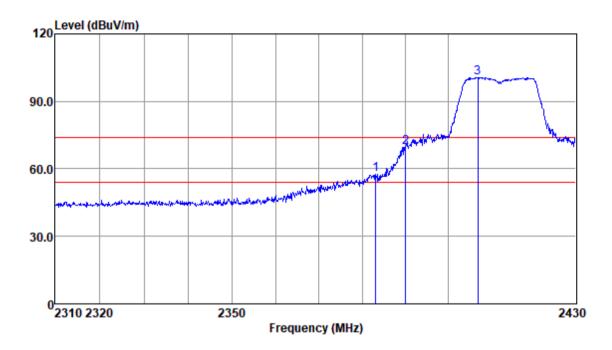
f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

-					Emission			
Freq	revel	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2383.08	60.96	28.76	3.14	35.17	57.69	74.00	-16.31	Peak
2390.00	72.56	28.80	3.13	35.18	69.31	74.00	-4.69	Peak
2406.85	103.84	28.89	3.13	35.20	100.66	74.00	26.66	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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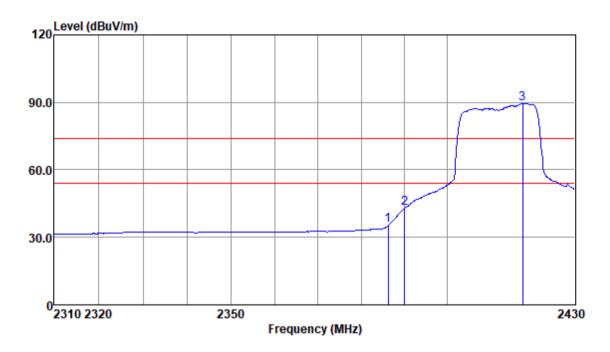
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2386.22	38.54	28.80	3.13	35.18	35.29	54.00	-18.71	Average
2390.00	46.01	28.80	3.13	35.18	42.76	54.00	-11.24	Average
2417.60	92.61	28.90	3.13	35.20	89.44	54.00	35.44	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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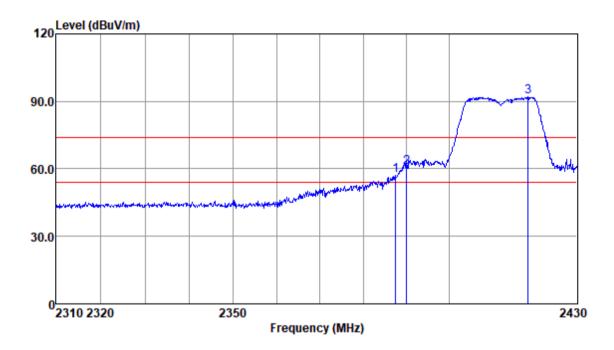
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.55	60.37	28.80	3.13	35.18	57.12	74.00	-16.88	Peak
2390.00	63.91	28.80	3.13	35.18	60.66	74.00	-13.34	Peak
2418.46	95.07	28.92	3.13	35.21	91.91	74.00	17.91	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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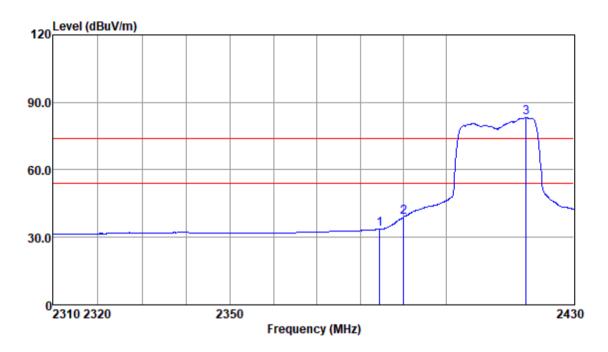
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2384.53	36.89	28.80	3.14	35.18	33.65	54.00	-20.35	Average
2390.00	42.13	28.80	3.13	35.18	38.88	54.00	-15.12	Average
2418.70	86.29	28.92	3.13	35.21	83.13	54.00	29.13	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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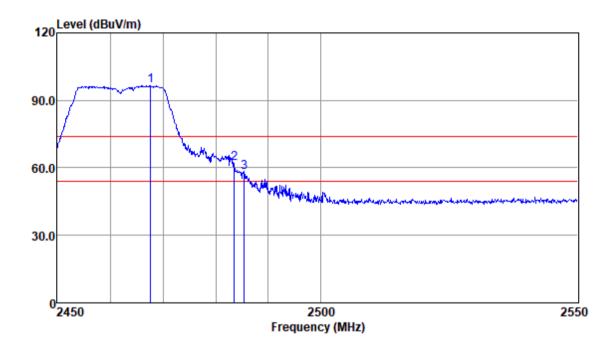
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2467.61	99.47	29.06	3.16	35.25	96.44	74.00	22.44	Peak
2483.50	64.93	29.09	3.20	35.26	61.96	74.00	-12.04	Peak
2485.44	60.88	29.09	3.20	35.26	57.91	74.00	-16.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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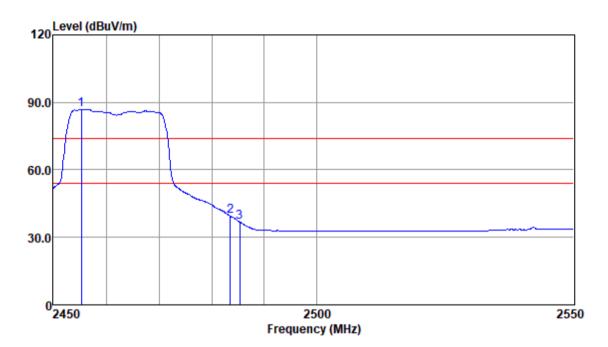
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2455.30	89.98	29.04	3.16	35.24	86.94	54.00	32.94	Average
2483.50	42.60	29.09	3.20	35.26	39.63	54.00	-14.37	Average
2485.34	39.79	29.09	3.20	35.26	36.82	54.00	-17.18	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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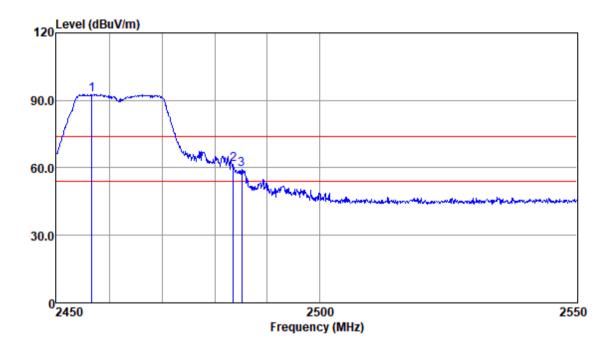
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2456.67	95.71	29.04	3.16	35.24	92.67	74.00	18.67	Peak
2483.50	64.51	29.09	3.20	35.26	61.54	74.00	-12.46	Peak
2485.14	62.13	29.09	3.20	35.26	59.16	74.00	-14.84	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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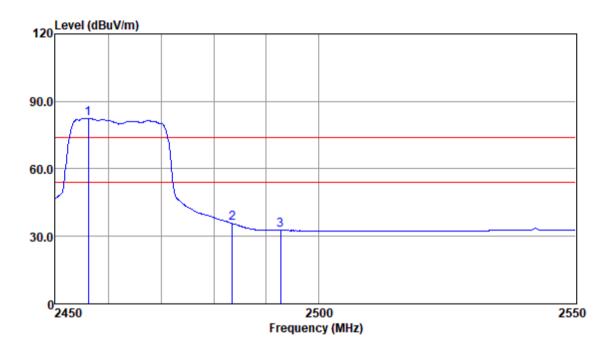
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Frea					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2456.28	85.60	29.04	3.16	35.24	82.56	54.00	28.56	Average
2483.50	38.71	29.09	3.20	35.26	35.74	54.00	-18.26	Average
2492.81	35.56	29.10	3.23	35.26	32.63	54.00	-21.37	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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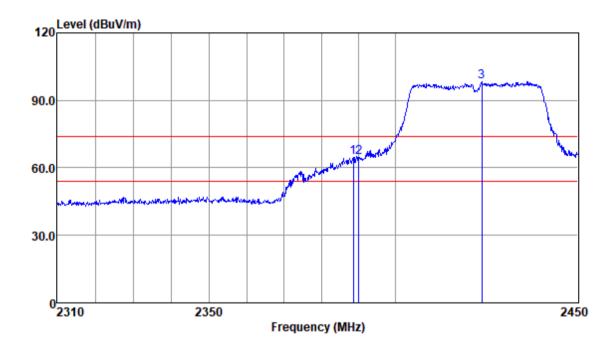
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2388.51	68.01	28.80	3.13	35.18	64.76	74.00	-9.24	Peak
2390.00	67.79	28.80	3.13	35.18	64.54	74.00	-9.46	Peak
2423.48	101.29	28.92	3.13	35.21	98.13	74.00	24.13	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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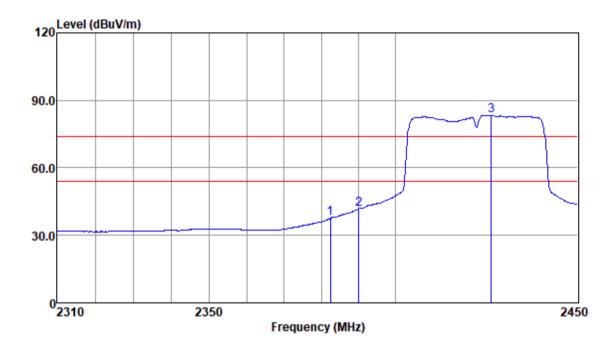
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2382.33	40.83	28.76	3.14	35.17	37.56	54.00	-16.44	Average
2390.00	45.09	28.80	3.13	35.18	41.84	54.00	-12.16	Average
2426.04	86.39	28.96	3.13	35.21	83.27	54.00	29.27	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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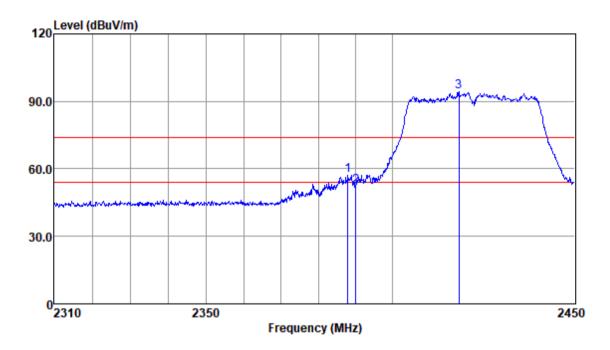
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

Enoa					Emission			Domank
Freq	rever	Fac tor	LUSS	ractor.	Level	Line	LIMIT	Kelliar K
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2387.95	60.45	28.80	3.13	35.18	57.20	74.00	-16.80	Peak
2390.00	55.46	28.80	3.13	35.18	52.21	74.00	-21.79	Peak
2418.06	97.57	28.90	3.13	35.20	94.40	74.00	20.40	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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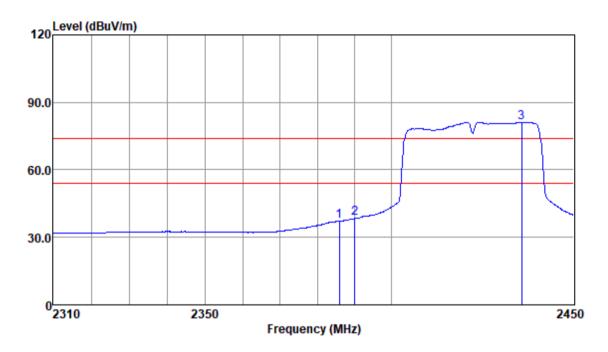
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.84	40.56	28.80	3.13	35.18	37.31	54.00	-16.69	Average
2390.00	41.60	28.80	3.13	35.18	38.35	54.00	-15.65	Average
2435.48	84.29	28.97	3.13	35.22	81.17	54.00	27.17	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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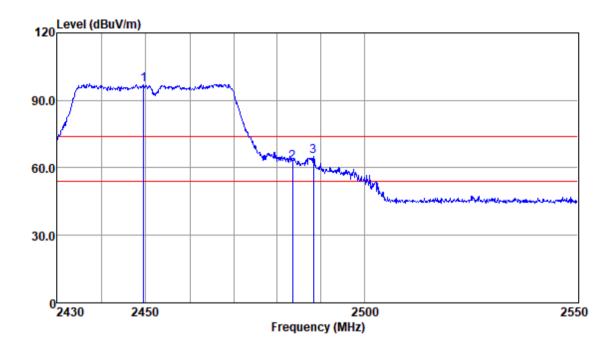
t (86-21) 61915666 t (86-21) 61915666



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line		
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2449.52	100.19	29.02	3.12	35.23	97.10	74.00	23.10	Peak
2483.50	65.36	29.09	3.20	35.26	62.39	74.00	-11.61	Peak
2488.32	68.23	29.09	3.23	35.26	65.29	74.00	-8.71	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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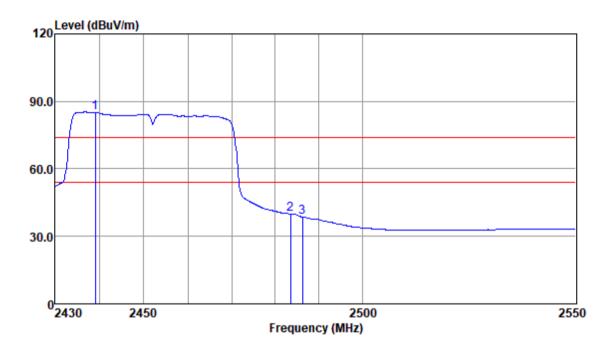
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2439.04	88.16	28.97	3.12	35.22	85.03	54.00	31.03	Average
2483.50	42.87	29.09	3.20	35.26	39.90	54.00	-14.10	Average
2486.28	41.49	29.09	3.20	35.26	38.52	54.00	-15.48	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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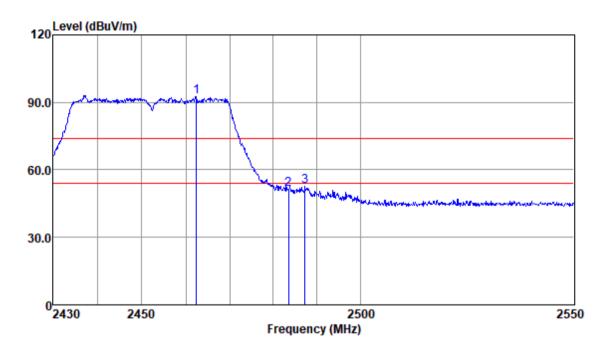
f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2462.43	95.75	29.05	3.16	35.24	92.72	74.00	18.72	Peak
2483.50	54.23	29.09	3.20	35.26	51.26	74.00	-22.74	Peak
2487.24	55.66	29.09	3.20	35.26	52.69	74.00	-21.31	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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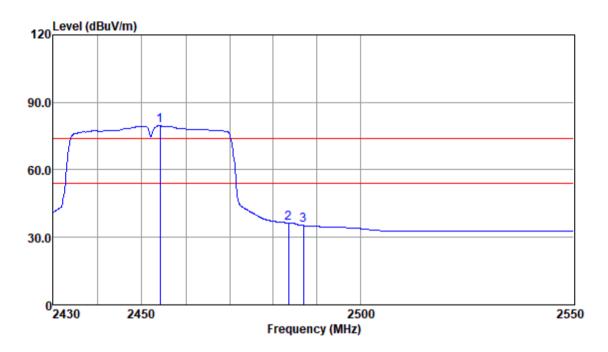
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2454.13	82.63	29.04	3.16	35.24	79.59	54.00	25.59	Average
2483.50	39.30	29.09	3.20	35.26	36.33	54.00	-17.67	Average
2486.88	38.23	29.09	3.20	35.26	35.26	54.00	-18.74	Average

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.3 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Humidity: 50.0 % RH Temperature: 22.0 °C Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

1.3.2 Test W	.000 20	
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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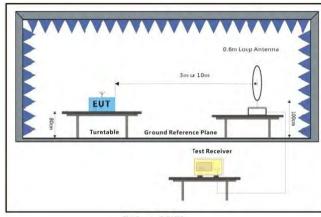
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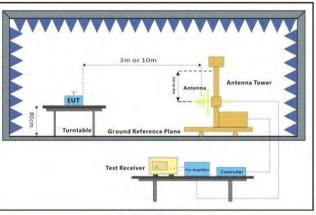


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7.3.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz

7.3.4 Measurement Procedure and Data

- a. For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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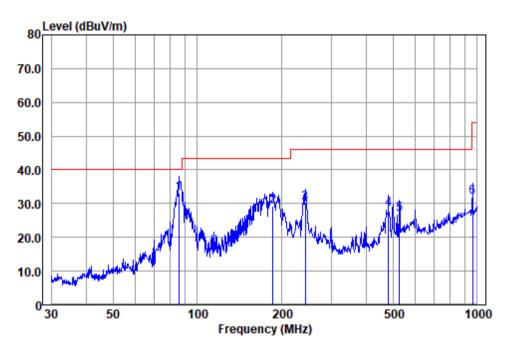
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Test Mode: 00; Polarity: Horizontal



Antenna Polarity : HORIZONTAL EUT/Project :0791ME

Test mode :00

	Freq		Antenna Factor						Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	85.898	56.95	7.80	1.86	33.56	33.05	40.00	-6.95	QP
2	186.441	49.19	10.89	2.56	33.35	29.29	43.50	-14.21	QP
3	242.525	49.00	11.18	3.16	33.12	30.22	46.00	-15.78	QP
4	480.528	39.75	17.50	4.21	33.00	28.46	46.00	-17.54	QP
5	526.397	36.13	18.42	5.32	33.00	26.87	46.00	-19.13	QP
6	962.162	33.00	23.70	7.25	31.94	32.01	54.00	-21.99	QP
Note:E	mission L	evel=Re	ad Level	+Anteni	na Facto	or+Cable	loss-Pr	reamp Fac	ctor



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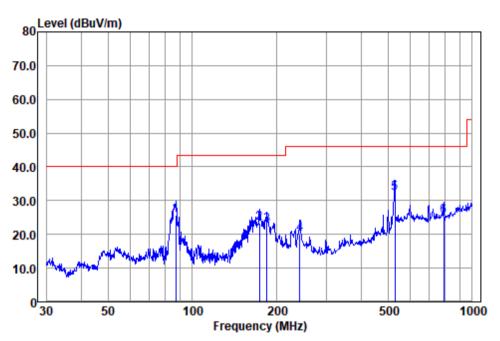
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Test Mode: 00; Polarity: Vertical



Antenna Polarity : VERTICAL EUT/Project :0791ME Test mode :00

	Freq		Antenna Factor						Remark
				·					
	MHZ	aBuv	dB/m	ав	aв	dBuV/m	dBuV/m	aв	
1	87.112	49.71	7.70	1.86	33.57	25.70	40.00	-14.30	QP
2	173.814	41.91	12.23	2.57	33.39	23.32	43.50	-20.18	QP
3	184.490	42.44	11.07	2.53	33.35	22.69	43.50	-20.81	QP
4	241.676	38.97	11.12	3.16	33.13	20.12	46.00	-25.88	QP
5	528.246	41.35	18.46	5.33	33.00	32.14	46.00	-13.86	QP
6	790.619	29.23	22.50	6.30	32.53	25.50	46.00	-20.50	QP
Note:E	mission L	evel=Re	ad Level	+Anteni	na Facto	or+Cable	loss-Pr	reamp Fa	ctor



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7.4 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

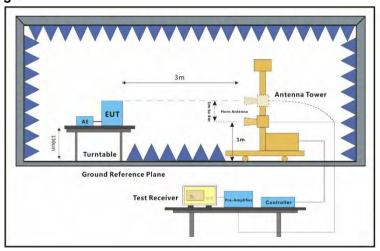
Operating Environment:

Temperature: 25.8 °C Humidity: 48.2 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

1.4.2 163t W	iouc Dc.	scription
Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram





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7.4.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown

Remark: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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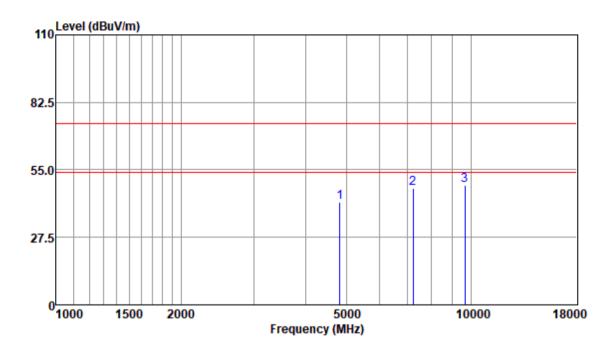
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.55	33.60	4.58	36.79	41.94	74.00	-32.06	Peak
7236.00	40.22	36.29	6.64	35.50	47.65	74.00	-26.35	Peak
9648.00	35.98	37.71	8.58	33.56	48.71	74.00	-25.29	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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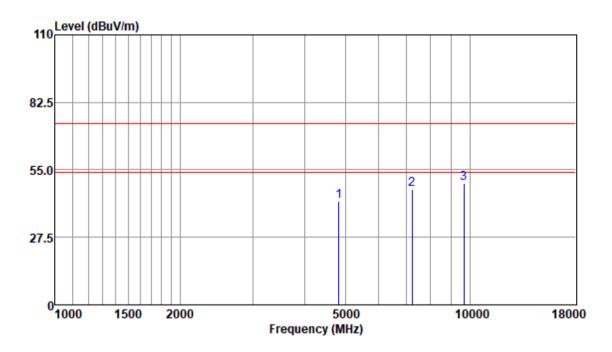
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.69	33.60	4.58	36.79	42.08	74.00	-31.92	Peak
7236.00	39.50	36.29	6.64	35.50	46.93	74.00	-27.07	Peak
9648.00	36.62	37.71	8.58	33.56	49.35	74.00	-24.65	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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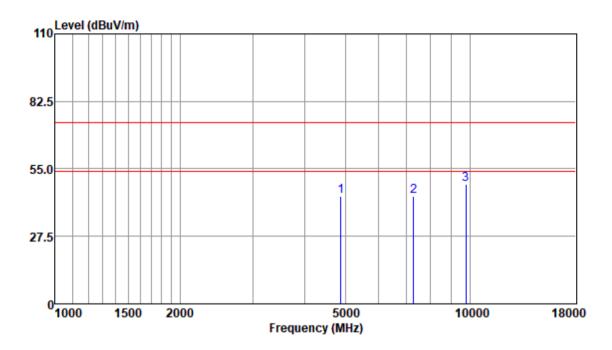
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line		
MHz	dBuv	dB/m	dB	dB	dBuv/m			
4874.00	42.14	33.66	4.73	36.81	43.72	74.00	-30.28	Peak
7311.00	36.24	36.32	6.60	35.44	43.72	74.00	-30.28	Peak
9748.00	35.94	37.54	8.69	33.50	48.67	74.00	-25.33	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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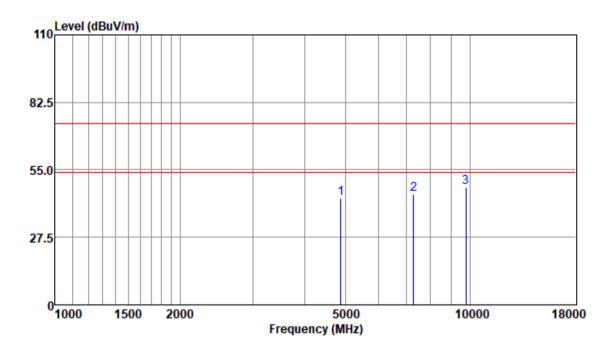
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

					Emission			DI-
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.78	33.66	4.73	36.81	43.36	74.00	-30.64	Peak
7311.00	37.45	36.32	6.60	35.44	44.93	74.00	-29.07	Peak
9748.00	35.06	37.54	8.69	33.50	47.79	74.00	-26.21	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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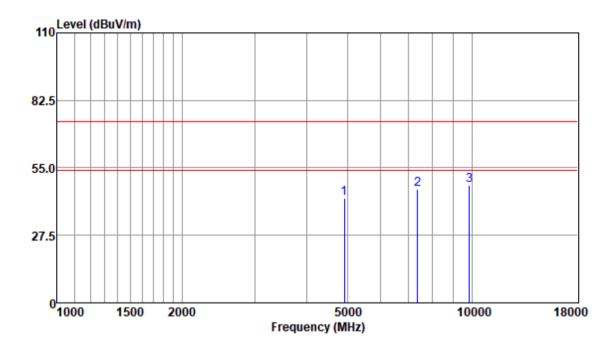
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.89	33.64	4.88	36.82	42.59	74.00	-31.41	Peak
7386.00	38.55	36.36	6.56	35.37	46.10	74.00	-27.90	Peak
9848.00	35.10	37.60	8.78	33.45	48.03	74.00	-25.97	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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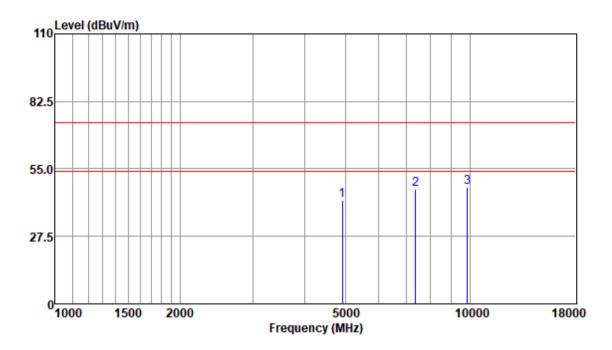
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Test Mode: 00; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.48	33.64	4.88	36.82	42.18	74.00	-31.82	Peak
7386.00	39.03	36.36	6.56	35.37	46.58	74.00	-27.42	Peak
9848.00	34.49	37.60	8.78	33.45	47.42	74.00	-26.58	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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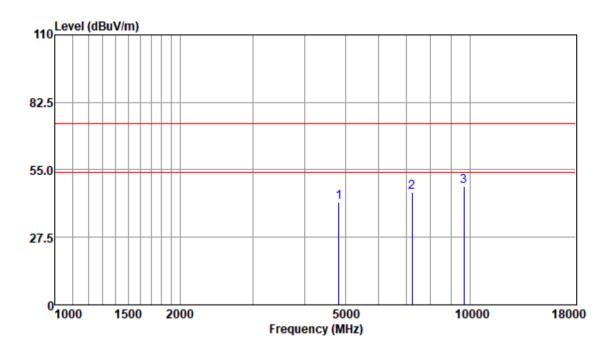
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.50	33.60	4.58	36.79	41.89	74.00	-32.11	Peak
7236.00	38.37	36.29	6.64	35.50	45.80	74.00	-28.20	Peak
9648.00	35.40	37.71	8.58	33.56	48.13	74.00	-25.87	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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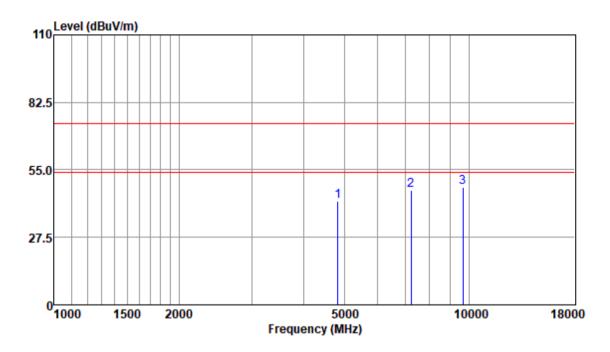
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	40.84	33.60	4.58	36.79	42.23	74.00	-31.77	Peak
7236.00	39.09	36.29	6.64	35.50	46.52	74.00	-27.48	Peak
9648.00	35.18	37.71	8.58	33.56	47.91	74.00	-26.09	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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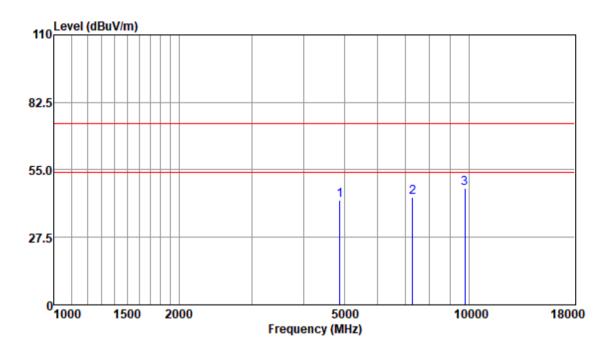
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.92	33.66	4.73	36.81	42.50	74.00	-31.50	Peak
7311.00	36.26	36.32	6.60	35.44	43.74	74.00	-30.26	Peak
9748.00	34.74	37.54	8.69	33.50	47.47	74.00	-26.53	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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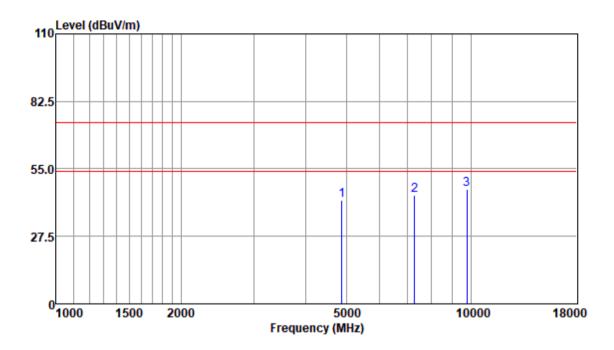
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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

					Emission			DI-
Freq	revel	Factor	LOSS	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.81	33.66	4.73	36.81	42.39	74.00	-31.61	Peak
7311.00	36.75	36.32	6.60	35.44	44.23	74.00	-29.77	Peak
9748.00	33.95	37.54	8.69	33.50	46.68	74.00	-27.32	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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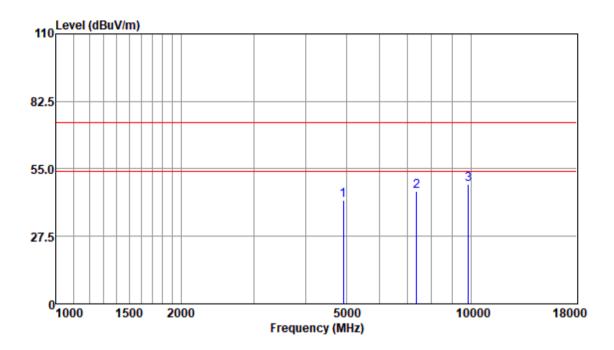
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.46	33.64	4.88	36.82	42.16	74.00	-31.84	Peak
7386.00	38.35	36.36	6.56	35.37	45.90	74.00	-28.10	Peak
9848.00	35.97	37.60	8.78	33.45	48.90	74.00	-25.10	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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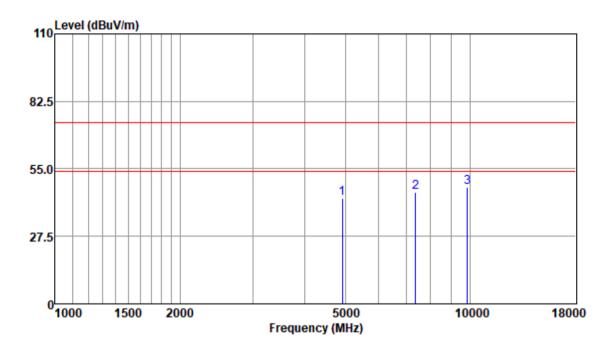
中国・上海・松江区金都西路588号 邮编: 201612 t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 00; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	41.23	33.64	4.88	36.82	42.93	74.00	-31.07	Peak
7386.00	38.08	36.36	6.56	35.37	45.63	74.00	-28.37	Peak
9848.00	34.54	37.60	8.78	33.45	47.47	74.00	-26.53	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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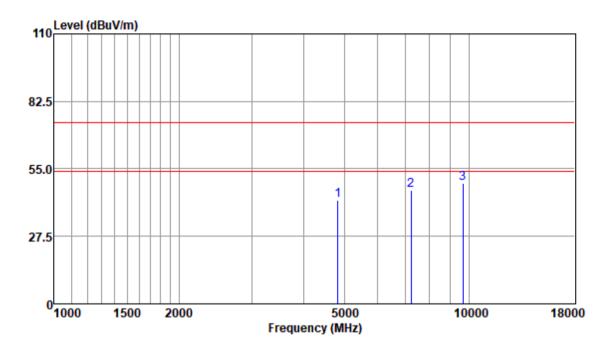
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line		
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	41.00	33.60	4.58	36.79	42.39	74.00	-31.61	Peak
7236.00	38.93	36.29	6.64	35.50	46.36	74.00	-27.64	Peak
9648.00	36.47	37.71	8.58	33.56	49.20	74.00	-24.80	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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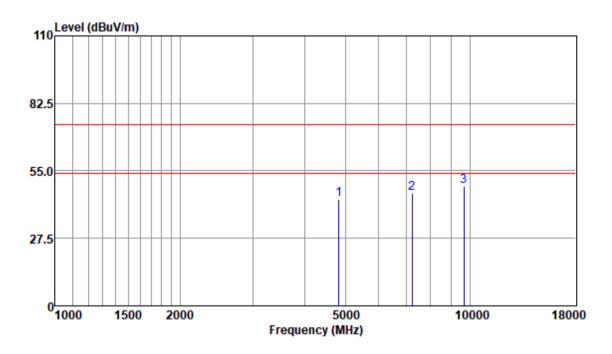
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	42.01	33.60	4.58	36.79	43.40	74.00	-30.60	Peak
7236.00	38.45	36.29	6.64	35.50	45.88	74.00	-28.12	Peak
9648.00	35.99	37.71	8.58	33.56	48.72	74.00	-25.28	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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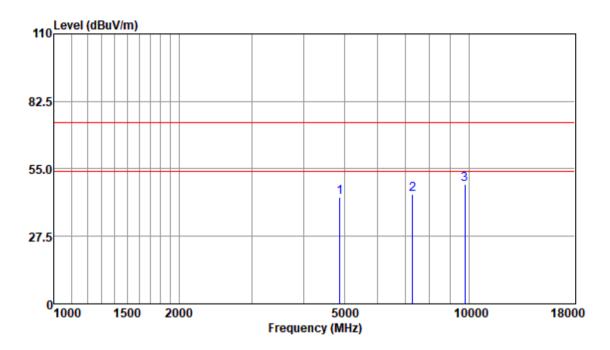
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	rever	Factor	Loss	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	41.72	33.66	4.73	36.81	43.30	74.00	-30.70	Peak
7311.00	37.35	36.32	6.60	35.44	44.83	74.00	-29.17	Peak
9748.00	36.15	37.54	8.69	33.50	48.88	74.00	-25.12	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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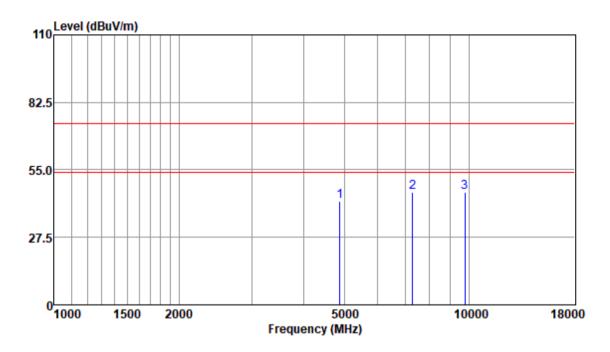
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : VERTICAL

					Emission			DI-
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.55	33.66	4.73	36.81	42.13	74.00	-31.87	Peak
7311.00	38.28	36.32	6.60	35.44	45.76	74.00	-28.24	Peak
9748.00	33.03	37.54	8.69	33.50	45.76	74.00	-28.24	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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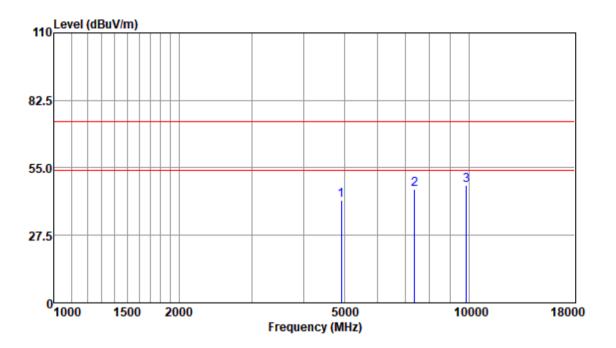
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

	Read	Antenna	Cable	Preamp	Emission	Limit	0ver	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.26	33.64	4.88	36.82	41.96	74.00	-32.04	Peak
7386.00	38.88	36.36	6.56	35.37	46.43	74.00	-27.57	Peak
9848.00	34.95	37.60	8.78	33.45	47.88	74.00	-26.12	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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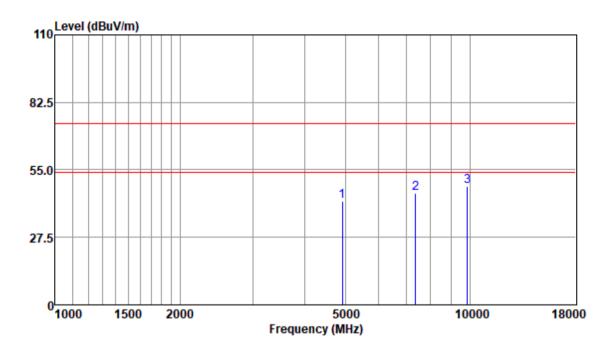
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

_					Emission			
Freq	rever	Factor	Loss	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	40.52	33.64	4.88	36.82	42.22	74.00	-31.78	Peak
7386.00	37.97	36.36	6.56	35.37	45.52	74.00	-28.48	Peak
9848.00	35.51	37.60	8.78	33.45	48.44	74.00	-25.56	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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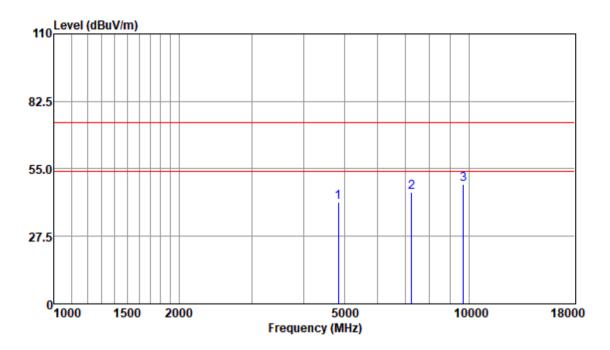
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Test Mode: 00c; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	40.09	33.66	4.63	36.80	41.58	74.00	-32.42	Peak
7266.00	38.22	36.30	6.62	35.48	45.66	74.00	-28.34	Peak
9688.00	36.02	37.62	8.61	33.53	48.72	74.00	-25.28	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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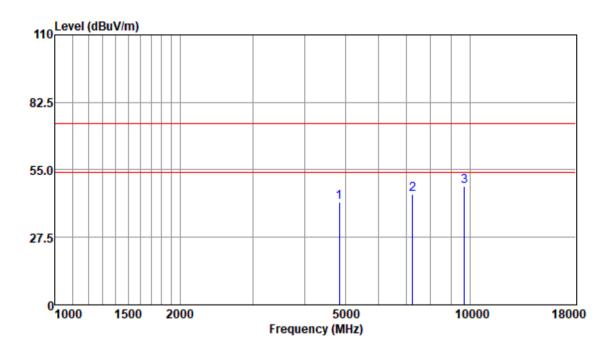
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

					Emission			D I
Freq	rever	Factor	LOSS	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	40.28	33.66	4.63	36.80	41.77	74.00	-32.23	Peak
7266.00	37.74	36.30	6.62	35.48	45.18	74.00	-28.82	Peak
9688.00	35.67	37.62	8.61	33.53	48.37	74.00	-25.63	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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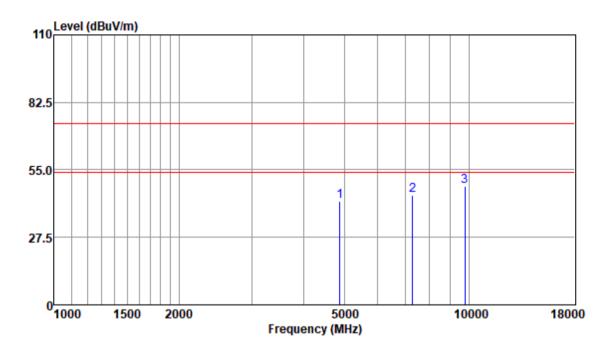
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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity : HORIZONTAL

_					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Kemark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	40.67	33.66	4.73	36.81	42.25	74.00	-31.75	Peak
7311.00	37.28	36.32	6.60	35.44	44.76	74.00	-29.24	Peak
9748.00	35.61	37.54	8.69	33.50	48.34	74.00	-25.66	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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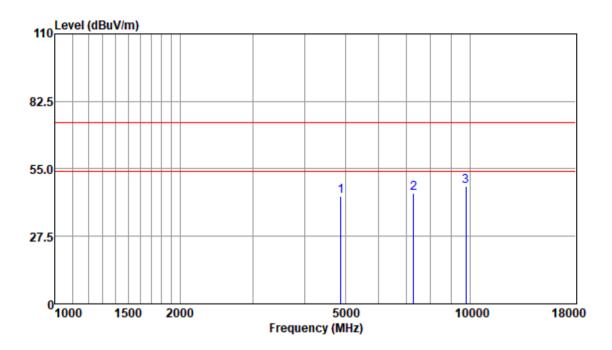
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.08	33.66	4.73	36.81	43.66	74.00	-30.34	Peak
7311.00	37.74	36.32	6.60	35.44	45.22	74.00	-28.78	Peak
9748.00	35.09	37.54	8.69	33.50	47.82	74.00	-26.18	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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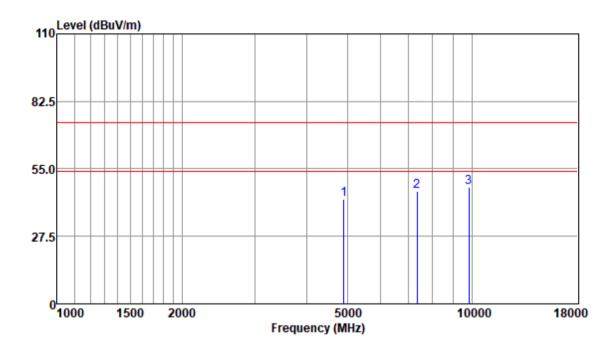
t (86-21) 61915666 t (86-21) 61915666 f (86-21) 61915678 f (86-21) 61915678



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Test Mode: 00; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	40.79	33.66	4.83	36.81	42.47	74.00	-31.53	Peak
7356.00	38.43	36.35	6.58	35.41	45.95	74.00	-28.05	Peak
9808.00	34.69	37.57	8.74	33.47	47.53	74.00	-26.47	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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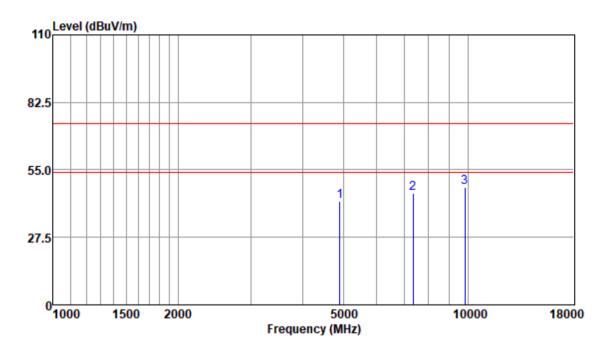
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Test Mode: 00; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

					Emission			
Freq	Level	Factor	Loss	Factor	Level			
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	40.50	33.66	4.83	36.81	42.18	74.00	-31.82	Peak
7356.00	37.86	36.35	6.58	35.41	45.38	74.00	-28.62	Peak
9808.00	35.05	37.57	8.74	33.47	47.89	74.00	-26.11	Peak

Note: Emission Level=Read Level+Antenna Factor+Cable loss-Preamp Factor



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7.5 Conducted Average Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3) Test Method: ANSI C63.10 (2013) Section 11.9.2

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
	1 for ≥50 hopping channels
902-928	0.25 for 25≤ hopping channels <50
	1 for digital modulation
	1 for ≥75 non-overlapping hopping channels
2400-2483.5	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 48.1 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

1.3.2 TEST IV	7.5.2 Test Mode Description						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.					



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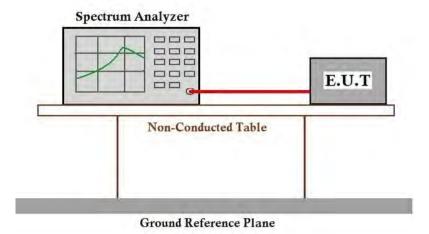
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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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7.6 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2) Test Method: ANSI C63.10 (2013) Section 11.8.1

Limit: ≥500 kHz

7.6.1 E.U.T. Operation

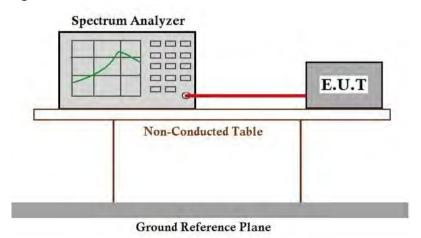
Operating Environment:

Temperature: 25.8 °C Humidity: 48.2 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

	11012 1000 mode Boodingston					
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e) Test Method: ANSI C63.10 (2013) Section 11.10.3

I imit

≤8dBm in any 3 kHz band during any time interval of continuous transmission

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.7.1 E.U.T. Operation

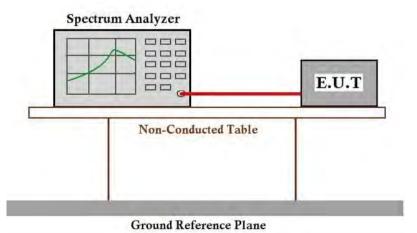
Operating Environment:

Temperature: 25.8 °C Humidity: 48.3 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

	7.7.2 Test mode bescription						
Pre-scan / Final test	Mode Code	Description					
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.					

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data



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7.8 Conducted Band Edges Measurement

47 CFR Part 15, Subpart C 15.247(d) Test Requirement Test Method: ANSI C63.10 (2013) Section 11.13.3.2

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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 measurement, provided the transmitter demonstrates compliance with the peak 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 addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 48.4 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.



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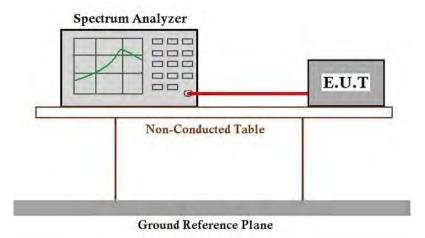
f (86-21) 61915678 f (86-21) 61915678



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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

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7.9 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d) Test Method: ANSI C63.10 (2013) Section 11.11

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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 measurement, provided the transmitter demonstrates compliance with the peak 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 addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25.8 °C Humidity: 48.4 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

	···- ······ - ····· - ···· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ··· - ···					
Pre-scan / Final test	Mode Code	Description				
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.				



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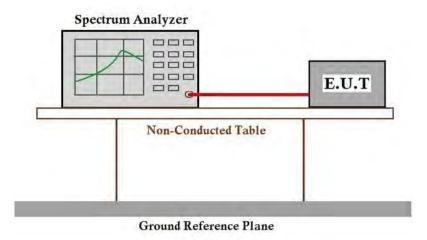
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 99% Bandwidth

Test Requirement

RSS-Gen Section 6.7

Test Method:

ANSI C63.10 Section 6.9.3

7.10.1 E.U.T. Operation

Operating Environment:

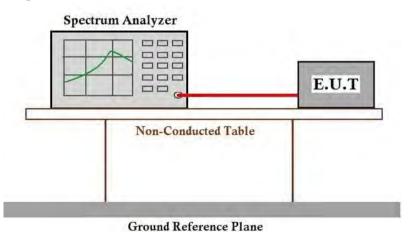
Temperature: 23.6 °C Humidity: 56.6 % RH

Atmospheric Pressure: 1010 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40), final test modes are considering the modulation and worse data rates. Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for SHCR2304000791ME

9 **EUT Constructional Details (EUT Photos)**

Refer to Appendix - Photographs of EUT Constructional Details for SHCR2304000791ME

10 Appendix

10.1 Appendix A: DTS Bandwidth

10 1 1 Test Result

10.1.1 Test	Result	•					
Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	Ant1	2412	10.080	2406.960	2417.040	≥0.5	PASS
	Ant2	2412	11.080	2405.960	2417.040	≥0.5	PASS
11B	Ant1	2437	10.040	2431.960	2442.000	≥0.5	PASS
IID	Ant2	2437	9.560	2432.440	2442.000	≥0.5	PASS
	Ant1	2462	9.560	2456.960	2466.520	≥0.5	PASS
	Ant2	2462	10.040	2456.960	2467.000	≥0.5	PASS
	Ant1	2412	16.320	2403.840	2420.160	≥0.5	PASS
	Ant2	2412	16.360	2403.800	2420.160	≥0.5	PASS
11G	Ant1	2437	16.320	2428.840	2445.160	≥0.5	PASS
116	Ant2	2437	16.320	2428.840	2445.160	≥0.5	PASS
	Ant1	2462	16.320	2453.840	2470.160	≥0.5	PASS
	Ant2	2462	16.360	2453.800	2470.160	≥0.5	PASS
	Ant1	2412	17.040	2403.480	2420.520	≥0.5	PASS
	Ant2	2412	17.520	2403.240	2420.760	≥0.5	PASS
11N20MIMO	Ant1	2437	17.360	2428.400	2445.760	≥0.5	PASS
I INZUMINO	Ant2	2437	17.600	2428.200	2445.800	≥0.5	PASS
	Ant1	2462	17.280	2453.240	2470.520	≥0.5	PASS
	Ant2	2462	17.560	2453.200	2470.760	≥0.5	PASS
	Ant1	2422	36.400	2403.840	2440.240	≥0.5	PASS
	Ant2	2422	36.320	2403.840	2440.160	≥0.5	PASS
111140141140	Ant1	2437	36.480	2418.760	2455.240	≥0.5	PASS
11N40MIMO	Ant2	2437	36.320	2418.840	2455.160	≥0.5	PASS
	Ant1	2452	36.480	2433.760	2470.240	≥0.5	PASS
	Ant2	2452	36.320	2433.840	2470.160	≥0.5	PASS



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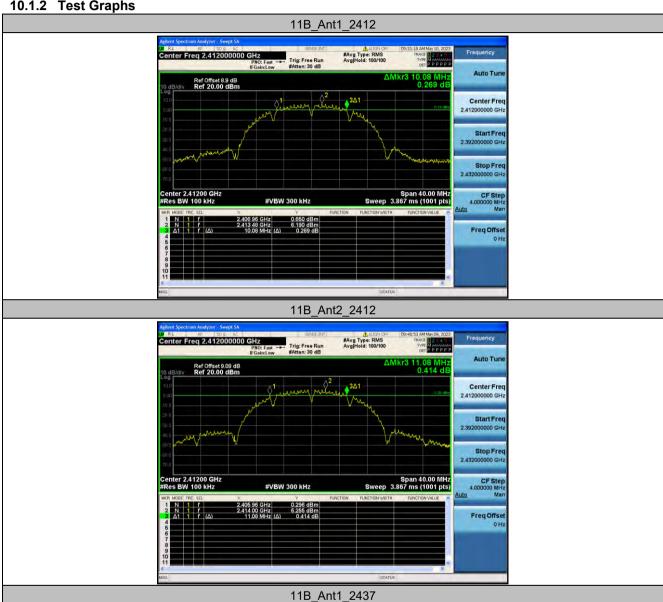
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10.1.2 Test Graphs





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11B_Ant1_2462



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11G_Ant1_2412



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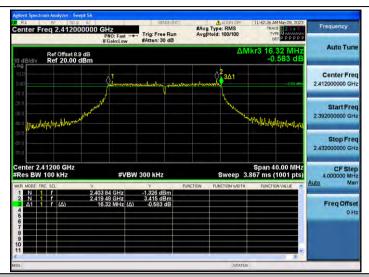
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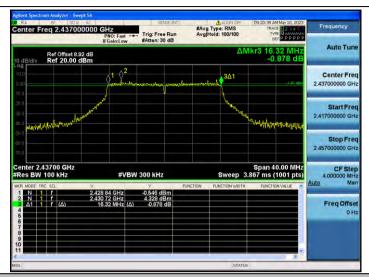
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11N20MIMO_Ant1_2412



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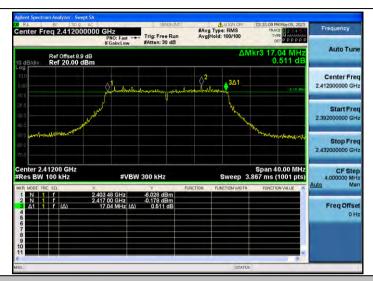
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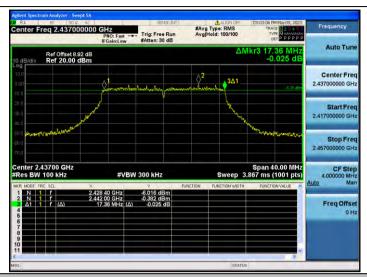
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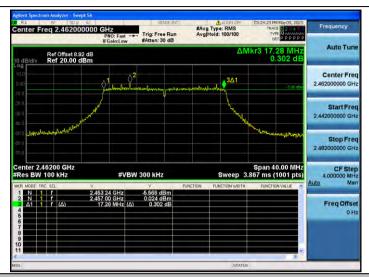
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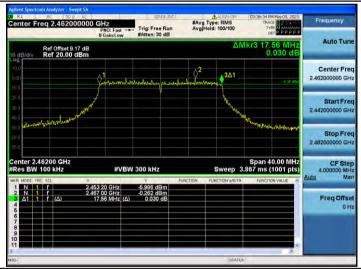


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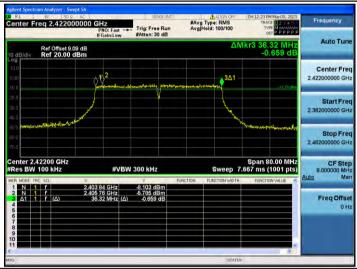


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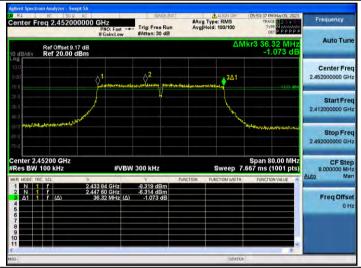


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10.2 Appendix B: Occupied Channel Bandwidth

10.2.1 Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	15.031	2404.5051	2419.5361		
	Ant2	2412	15.193	2404.4063	2419.5993		
	Ant1	2437	15.044	2429.4885	2444.5325		
	Ant2	2437	15.165	2429.4233	2444.5883		
	Ant1	2462	15.042	2454.4615	2469.5035		
	Ant2	2462	15.149	2454.3948	2469.5438		
11G	Ant1	2412	16.830	2403.5580	2420.3880		
	Ant2	2412	16.984	2403.5022	2420.4862		
	Ant1	2437	16.811	2428.6059	2445.4169		
	Ant2	2437	16.879	2428.4956	2445.3746		
	Ant1	2462	16.760	2453.5993	2470.3593		
	Ant2	2462	16.922	2453.4578	2470.3798		
11N20MIMO	Ant1	2412	17.810	2403.1104	2420.9204		
	Ant2	2412	17.769	2403.1257	2420.8947		
	Ant1	2437	17.811	2428.1457	2445.9567		
	Ant2	2437	17.777	2428.1369	2445.9139		
	Ant1	2462	17.789	2453.0976	2470.8866		
	Ant2	2462	17.738	2453.1437	2470.8817		
11N40MIMO	Ant1	2422	36.626	2403.6957	2440.3217		
	Ant2	2422	36.716	2403.6831	2440.3991		
	Ant1	2437	36.655	2418.7783	2455.4333		
	Ant2	2437	36.524	2418.7691	2455.2931		
	Ant1	2452	36.640	2433.6708	2470.3108		
	Ant2	2452	36.599	2433.7490	2470.3480		



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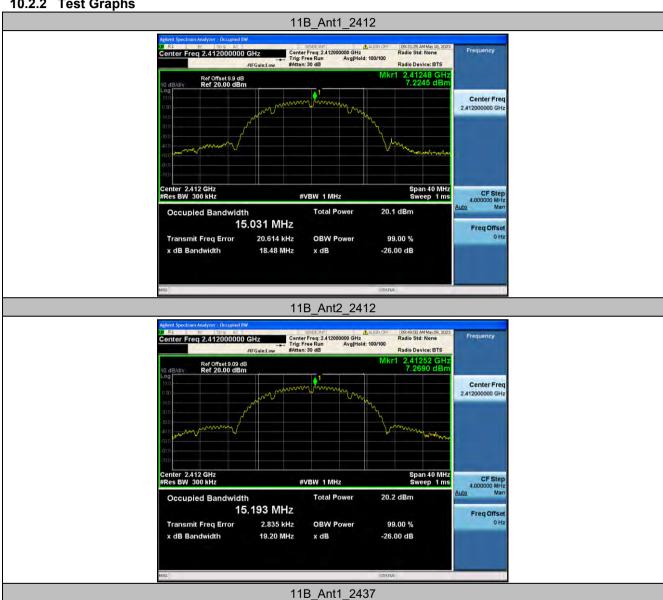
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10.2.2 Test Graphs





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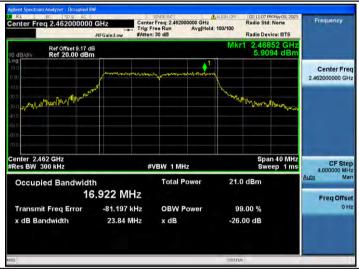


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11N20MIMO_Ant1_2412



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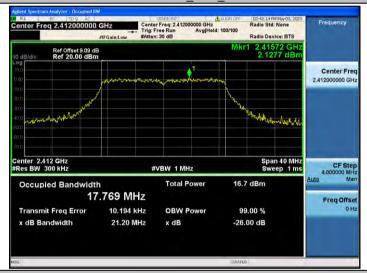


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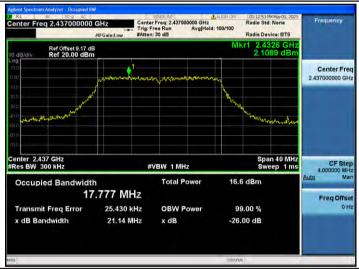


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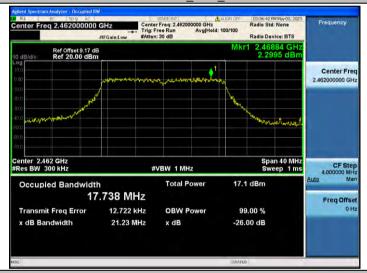


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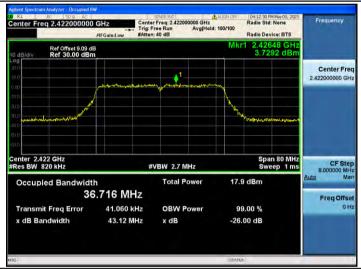


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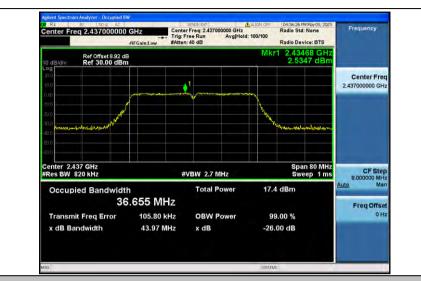
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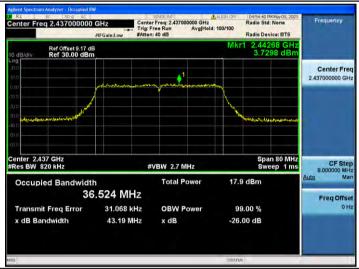


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10.3 Appendix C: Maximum conducted output power

10.3.1 Test Result

Test Mode	Antenna	Channel	Level	10Log(1/X) Factor	Power	Limit	Verdict
			[dBm]	[dB]	[dBm]	[dBm]	
11B	Ant1	2412	16.03	0.07	16.10	≤30.00	PASS
	Ant2	2412	16.24	0.26	16.50	≤30.00	PASS
	Ant1	2437	16.01	0.08	16.09	≤30.00	PASS
	Ant2	2437	16.19	0.09	16.28	≤30.00	PASS
	Ant1	2462	16.24	0.09	16.33	≤30.00	PASS
	Ant2	2462	15.92	0.08	16.00	≤30.00	PASS
11G	Ant1	2412	14.60	0.51	15.11	≤30.00	PASS
	Ant2	2412	14.73	0.51	15.24	≤30.00	PASS
	Ant1	2437	15.01	0.54	15.55	≤30.00	PASS
	Ant2	2437	14.68	0.54	15.22	≤30.00	PASS
	Ant1	2462	14.88	0.54	15.42	≤30.00	PASS
	Ant2	2462	14.76	0.54	15.30	≤30.00	PASS
	Ant1	2412	10.53	0.57	11.10	≤30.00	PASS
11N20MIMO	Ant2	2412	10.37	0.57	10.94	≤30.00	PASS
	Total	2412			14.03	≤29.59	PASS
	Ant1	2437	10.61	0.54	11.15	≤30.00	PASS
	Ant2	2437	10.21	0.57	10.78	≤30.00	PASS
	Total	2437			13.98	≤29.59	PASS
	Ant1	2462	10.76	0.54	11.30	≤30.00	PASS
	Ant2	2462	10.51	0.54	11.05	≤30.00	PASS
	Total	2462			14.19	≤29.59	PASS
11N40MIMO	Ant1	2422	10.42	0.00	10.42	≤30.00	PASS
	Ant2	2422	10.60	0.00	10.60	≤30.00	PASS
	Total	2412			13.52	≤29.59	PASS
	Ant1	2437	10.59	0.00	10.59	≤30.00	PASS
	Ant2	2437	10.62	0.00	10.62	≤30.00	PASS
	Total	2437			13.62	≤29.59	PASS
	Ant1	2452	10.17	0.00	10.17	≤30.00	PASS
	Ant2	2452	10.20	0.00	10.20	≤30.00	PASS
	Total	2452			13.20	≤29.59	PASS



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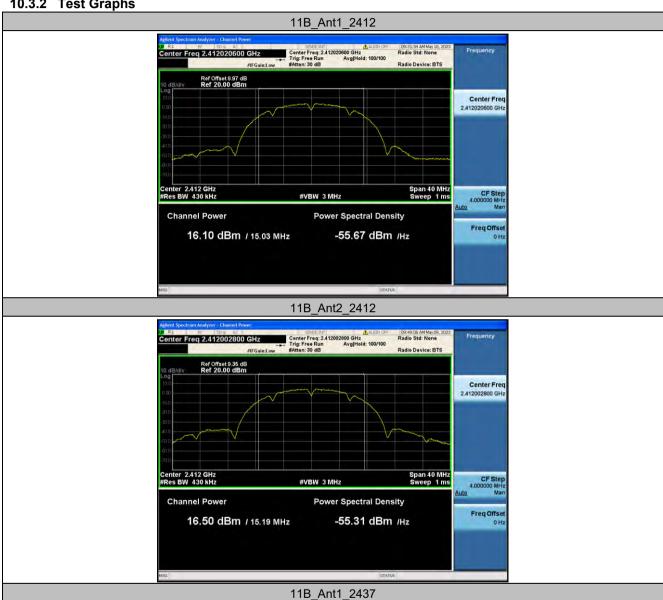
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10.3.2 Test Graphs





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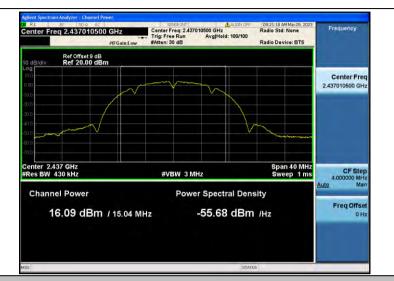
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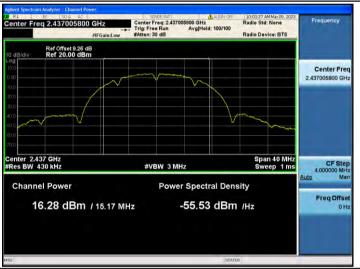


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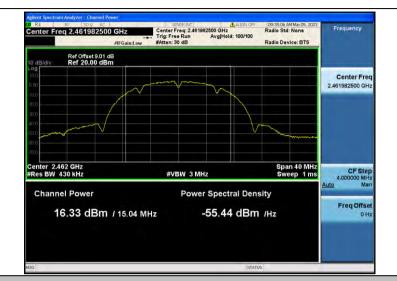
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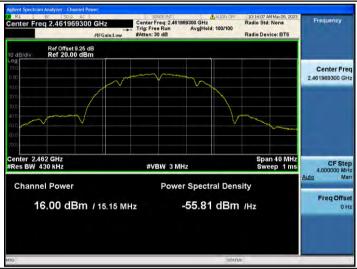


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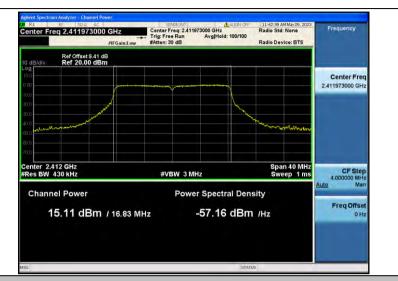
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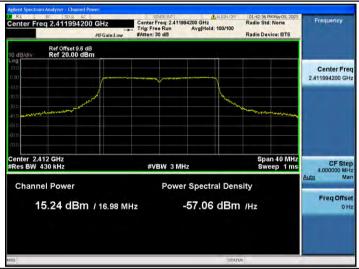


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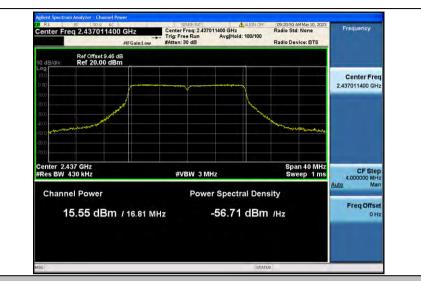
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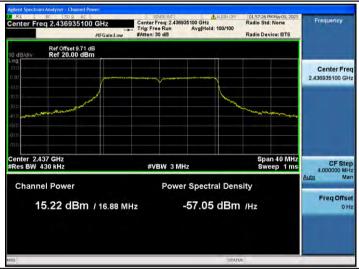


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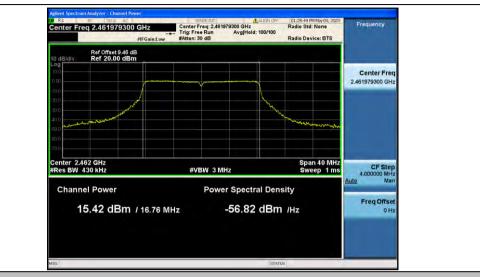
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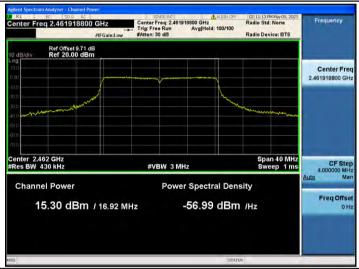


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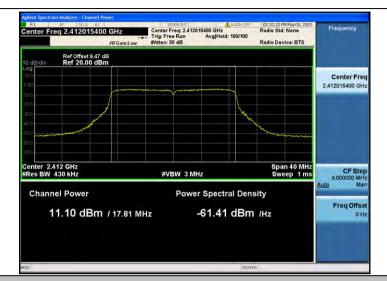
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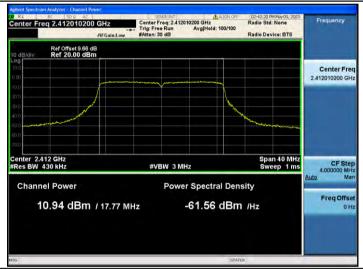


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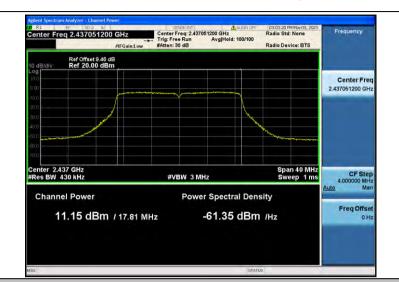
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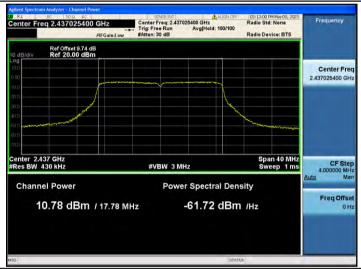


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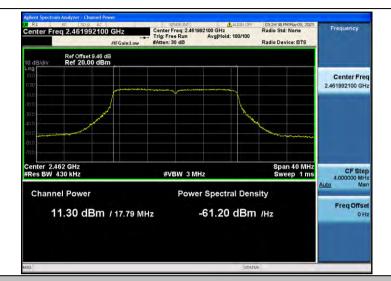
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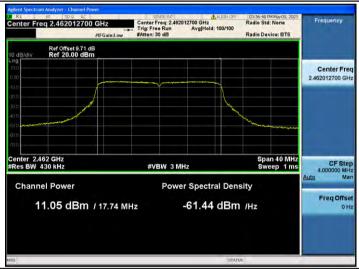


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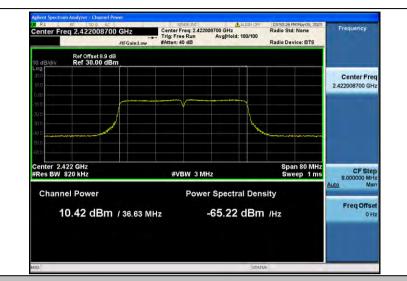
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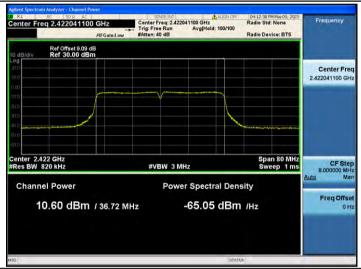


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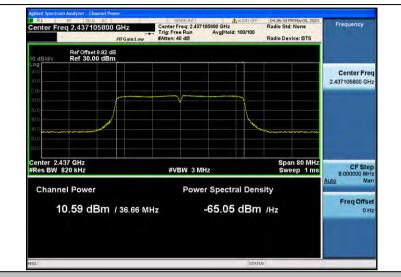
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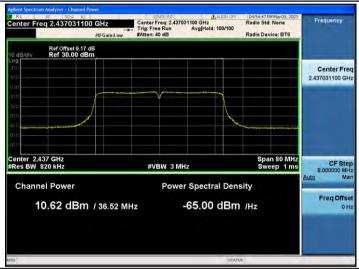


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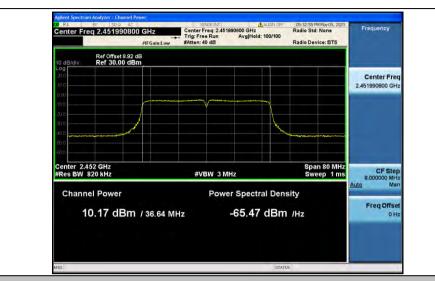
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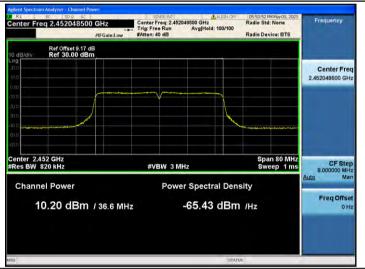


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10.4 Appendix D: Maximum power spectral density

10.4.1 Test Result

Test Mode	Antenna	Channel	Level [dBm/3-100kHz]	10Log(1/X) Factor [dB]	PSD [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant1	2412	-17.04	0.07	-16.97	≤8.00	PASS
	Ant2	2412	-16.91	0.26	-16.65	≤8.00	PASS
	Ant1	2437	-17.17	0.08	-17.09	≤8.00	PASS
	Ant2	2437	-16.96	0.09	-16.87	≤8.00	PASS
	Ant1	2462	-16.61	0.09	-16.52	≤8.00	PASS
	Ant2	2462	-17.29	0.08	-17.21	≤8.00	PASS
11G	Ant1	2412	-20.13	0.51	-19.62	≤8.00	PASS
	Ant2	2412	-19.91	0.51	-19.4	≤8.00	PASS
	Ant1	2437	-19.82	0.54	-19.28	≤8.00	PASS
	Ant2	2437	-20.07	0.54	-19.53	≤8.00	PASS
	Ant1	2462	-20.04	0.54	-19.5	≤8.00	PASS
	Ant2	2462	-19.77	0.54	-19.23	≤8.00	PASS
11N20MIMO	Ant1	2412	-24.63	0.57	-24.06	≤8.00	PASS
	Ant2	2412	-24.85	0.57	-24.28	≤8.00	PASS
	total	2412			-21.16	≤7.59	PASS
	Ant1	2437	-24.66	0.54	-24.12	≤8.00	PASS
	Ant2	2437	-24.91	0.57	-24.34	≤8.00	PASS
	total	2437			-21.22	≤7.59	PASS
	Ant1	2462	-24.66	0.54	-24.12	≤8.00	PASS
	Ant2	2462	-24.52	0.54	-23.98	≤8.00	PASS
	total	2462			-21.04	≤7.59	PASS
11N40MIMO	Ant1	2422	-28.44	0.00	-28.44	≤8.00	PASS
	Ant2	2422	-27.84	0.00	-27.84	≤8.00	PASS
	total	2422			-25.12	≤7.59	PASS
	Ant1	2437	-27.84	0.00	-27.84	≤8.00	PASS
	Ant2	2437	-27.62	0.00	-27.62	≤8.00	PASS
	total	2437			-24.72	≤7.59	PASS
	Ant1	2452	-28.29	0.00	-28.29	≤8.00	PASS
	Ant2	2452	-28.08	0.00	-28.08	≤8.00	PASS
	total	2452			-25.17	≤7.59	PASS



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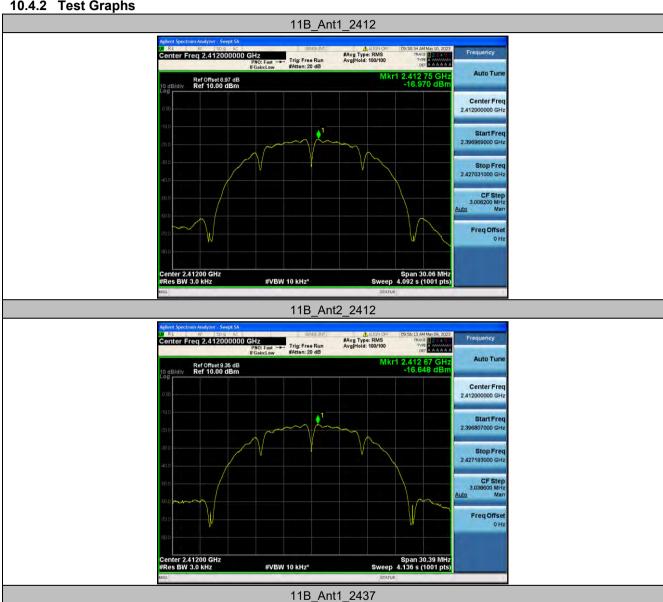
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10.4.2 Test Graphs





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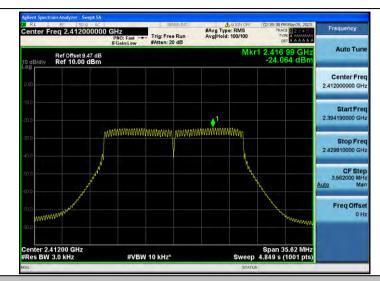
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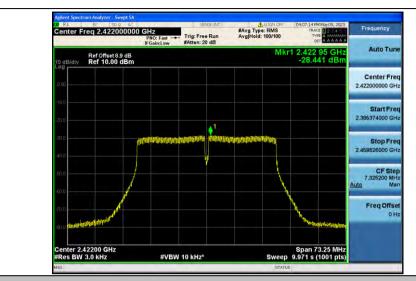
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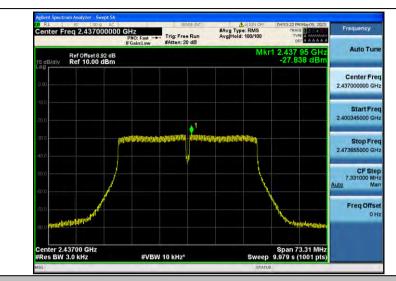
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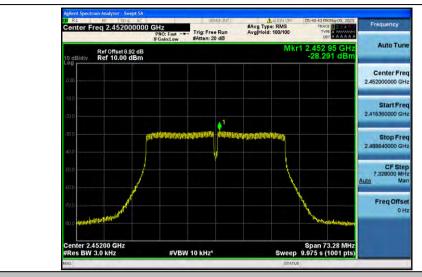
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