

Report No.: KSCR221000205202

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TEST REPORT

Application No.: KSCR2210002052AT **FCC ID:** 2ADTD-K1T321EFWX

Applicant: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Applicant: No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Manufacturer: Hangzhou Hikvision Digital Technology Co., Ltd.

Address of Manufacturer: No.555 Qianmo Road, Binjiang District Hangzhou 310052, China

Factory: 1, Hangzhou Hikvision Technology Co., Ltd.

2, Hangzhou Hikvision Electronics Co., Ltd.3, Chongqing Hikvision Technology Co., Ltd.,

4, WuHan Hikvision Technology Co. Ltd

Address of Factory: 1, No.700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052,

China

2, No.299, Qiushi Road, Tonglu Economic Development Zone, Tonglu

County, Hangzhou, Zhejiang, 311500, China.

3, NO.118. Haikang Road, Area C, Jianqiao Industrial Park, Dadukou District,

Chongqing,401325,China.

4, No. 12, Wenhua Road, Zhifang Street, Jiangxia District, Wuhan City

Equipment Under Test (EUT):

EUT Name: Face Recognition Terminal

Model No.: DS-K1T321EFWX,DS-K1T321EWX,DS-K1T321EFWXUHK,

DS-K1T321EFWXCKV,DS-K1T321EFWXUVS,DS-K1T321EFWXKVO,

DS-K1T321EFWXHUN &

Remark 4: Please refer to section 2 of this report which indicates which model was

actually tested and which were electrically identical.

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

Date of Receipt: 2022-10-28

Date of Test: 2022-10-29 to 2022-11-02

Date of Issue: 2022-11-03

Test Result: Pass*

Eric Lin Laboratory Manager

Jose fin



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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	2022-11-03	/

Authorized for issue by:			
	Damon zhou		
	Damon Zhou/Project Engineer	_	
	Eric fi		
	Eric Lin /Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item Standard Method Requirement Re				Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)		ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Conducted Average Output Power		ANSI C63.10 (2013) Section 11.9.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2013) Section 11.10.3	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2013) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass

Declaration of EUT Family Grouping:

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-K1T321EFWX was tested since their differences were the model number and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply:	DC 12V 1A By adapter	
	Adapter:	
	Model:ADS-12FG-12N 12012EPCU	
	Input:100-240V~50/60Hz	
	Output:12V 1A	
Test voltage:	AC 120V/60Hz	
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	
Antenna Type:	PCB Antenna	
Antenna Gain:	1.61 dBi (Provided by manufacturer)	

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.	
Laptop	LENOVO	L460	-	
SecureCRT	VanDyke	V 6.2.0	-	

4.3 Power level setting using in test:

Channel	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Low	48	52	50	48
Middle	48	52	50	48
High	48	52	50	48



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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 Dedicted newer	5.2dB (Below 1GHz)
8	RF Radiated power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Courieus amiceian test	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.



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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).

4.6 Test Facility

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

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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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5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RF Conducted Test					
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Spectrum Analyzer	Keysight	N9020B	SHEM241-1	2021-12-20	2022-12-19
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	2022-07-25	2023-07-24
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Power Sensor	Keysight	U2021XA * 4	SHEM184-1	2022-08-02	2023-08-01
Splitter	Anritsu	MA1612A	SHEM185-1	1	/
Coupler	e-meca	803-S-1	SHEM186-1	1	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2020-04-15	2023-04-14
AC Power Stabilizer	APC	KDF-31020T-V0-F0	SHEM216-1	2021-12-20	2022-12-19
DC Power Supply	MCH	MCH-303A	SHEM210-1	2021-12-20	2022-12-19
Conducted test Cable	/	RF01~RF04	1	2021-12-20	2022-12-19
Switcher	Tonscend	JS0806	SHEM184-1	2022-08-02	2023-08-01
Test software	Tonscend	JS Tonscend BT/WIFI System	Version: 2.6	1	/
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	2021-12-20	2022-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2021-12-20	2022-12-19
Communication Tester	R&S	CMW500	SHEM268-1	2022-07-25	2023-07-24
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2021-12-20	2022-12-19
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2021-09-11	2023-09-10
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM202-1	2021-05-07	2023-05-06
Horn Antenna (1-18GHz)	Schwarzbeck	HF906	SHEM009-1	2022/8/11	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	2021-12-20	2022-12-19
Band Filter	LORCH	9BRX-875/X150	SHEM156-1	1	/
Band Filter	LORCH	13BRX-1950/X500	SHEM083-2	1	/
Band Filter	LORCH	5BRX-2400/X200	SHEM155-1	1	/
Band Filter	LORCH	5BRX-5500/X1000	SHEM157-2	1	/
High pass Filter	Wainwright	WHK3.0/18G	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2020-05-25	2023-05-24
RE test Cable	/	RE01, RE02, RE06	/	2022-01-07	2023-01-06
Test software	ESE	E3	Version: 6.111221a	1	/



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Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Conducted Emission at Ma	Conducted Emission at Mains Terminals (150kHz-30MHz)								
EMI test receiver	R&S	ESR7	SHEM162-1	2021-12-20	2022-12-19				
LISN	Schwarzbeck	NSLK8127	SHEM061-1	2021-12-20	2022-12-19				
LISN	EMCO	3816/2	SHEM019-1	2021-12-20	2022-12-19				
Pulse limiter	R&S	ESH3-Z2	SHEM029-1	2021-12-20	2022-12-19				
Shielding Room	ZHONGYU	8*4*3M	SHEM079-2	2021-12-20	2022-12-19				
CE test Cable	/	CE01	/	2022-01-07	2023-01-07				
Test software	ESE	E3	Version: 6.111221a	/	/				



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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 is PCB antenna and no consideration of replacement. The best case gain of the antenna is 1.61 dBi.

Antenna location: Refer to internal photo.



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7 Radio Spectrum Matter Test Results

7.1 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:

Erecuency of emission (MU=)	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 (9kH	z resolution bandwidth) 0.15M to 3	30MHz				

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.7 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

	The state was a state plant.					
Pre-scan / Final test	Mode Code	Description				
Final test	01	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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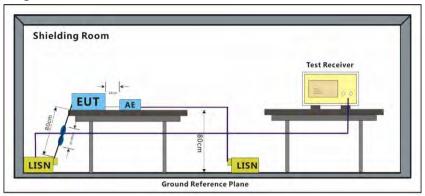
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7.1.3 Test Setup Diagram



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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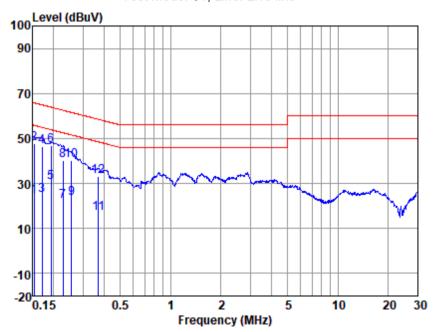
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Test Mode: 01; Line: Live line



LISN : LINE

EUT/Project No: 02052AT

Test Mode : 01

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.15	14.04	0.14	10.01	24.19	55.87	-31.68	Average
2	0.15	37.69	0.14	10.01	47.84	65.87	-18.03	OP
3	0.17	14.38	0.12	10.02	24.52	54.94	-30.42	Average
4	0.17	36.19	0.12	10.02	46.33	64.94	-18.61	QP
5	0.19	20.16	0.10	10.03	30.29	53.93	-23.64	Average
6	0.19	36.83	0.10	10.03	46.96	63.93	-16.97	QP
7	0.23	11.88	0.10	10.04	22.02	52.57	-30.55	Average
8	0.23	30.06	0.10	10.04	40.20	62.57	-22.37	QP
9	0.25	13.11	0.10	10.04	23.25	51.60	-28.35	Average
10	0.25	29.96	0.10	10.04	40.10	61.60	-21.50	QP
11	0.37	6.48	0.10	10.06	16.64	48.52	-31.88	Average
12	0.37	23.17	0.10	10.06	33.33	58.52	-25.19	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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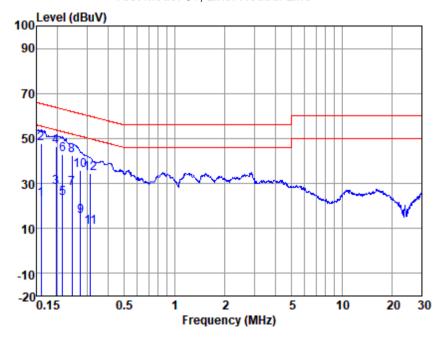
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Test Mode: 01; Line: Neutral Line



LISN : NEUTRAL EUT/Project No : 02052AT

Test Mode : 01

	Freq (MHz)	Read level (dBuV)	LISN Factor (dB)	Cable Loss (dB)	Emission Level (dBuV)	Limit (dBuV)	Over Limit (dB)	Remark
1	0.16	12.62	0.10	10.02	22.74	55.52	-32.78	Average
2	0.16	37.63	0.10	10.02	47.75	65.52	-17.77	QP
3	0.20	18.09	0.10	10.03	28.22	53.80	-25.58	Average
4	0.20	36.46	0.10	10.03	46.59	63.80	-17.21	QP
5	0.21	13.44	0.10	10.03	23.57	53.05	-29.48	Average
6	0.21	32.91	0.10	10.03	43.04	63.05	-20.01	QP
7	0.24	17.55	0.10	10.04	27.69	52.00	-24.31	Average
8	0.24	32.12	0.10	10.04	42.26	62.00	-19.74	QP
9	0.27	5.06	0.10	10.05	15.21	50.98	-35.77	Average
10	0.27	25.49	0.10	10.05	35.64	60.98	-25.34	QP
11	0.31	0.46	0.10	10.05	10.61	49.84	-39.23	Average
12	0.31	24.17	0.10	10.05	34.32	59.84	-25.52	QP

Notes: Emission Level = Read Level +LISN Factor + Cable loss



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7.2 Conducted Peak 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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.8 % RH Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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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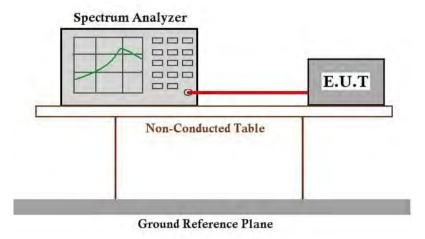
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7.2.3 Test Setup Diagram



7.2.4 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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7.3 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

7.3.1 E.U.T. Operation

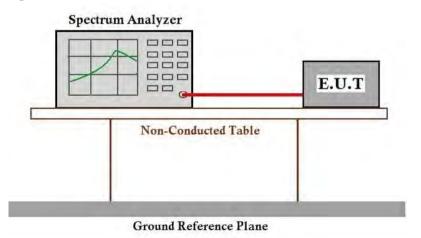
Operating Environment:

Temperature: 23.7 °C Humidity: 49.8 % RH Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

	Field Took Mode Bookington					
Pre-scan / Final test	Mode Code	Description				
Final test	01	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.				

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.4 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
Test Method: ANSI C63.10 (2013) Section 11.10.2

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

transmission

7.4.1 E.U.T. Operation

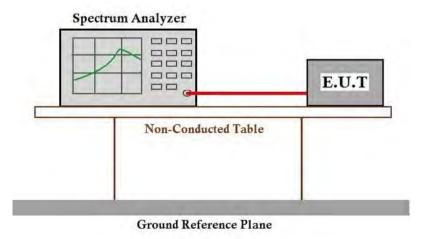
Operating Environment:

Temperature: 23.7 °C Humidity: 49.7 % RH Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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



7.4.4 Measurement Procedure and Data

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7.5 Conducted Band Edges Measurement

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

Limit:

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).

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.7 % 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	01	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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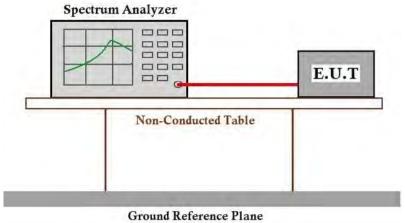
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7.5.3 Test Setup Diagram



Action of the second second

7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 Conducted Spurious Emissions

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

Limit:

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).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 50.0 % RH Atmospheric Pressure: 1010 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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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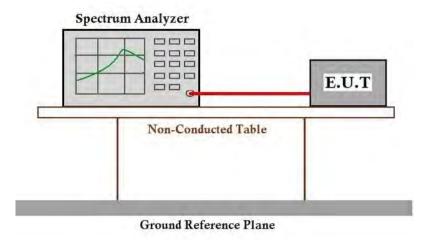
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7.6.3 Test Setup Diagram



Please Refer to Appendix for Details

7.6.4 Measurement Procedure and Data



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7.7 Radiated Emissions which fall in the restricted bands

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

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

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
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.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.9 % RH Atmospheric Pressure: 1010 mbar

7.7.2 Test Mode Description

1.7.2 16361		
Pre-scan / Final test	Mode Code	Description
Final test	01	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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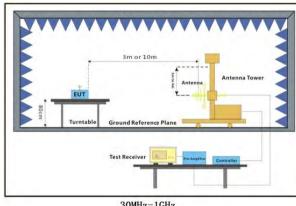
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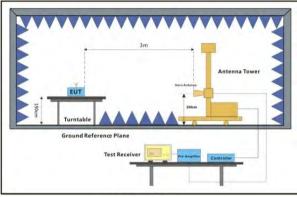


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7.7.3 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.7.4 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.
- j. 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.



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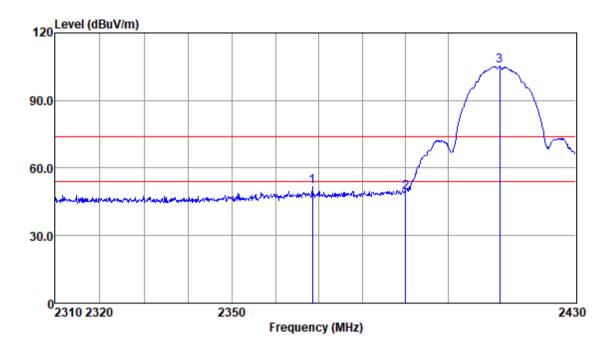
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	
2368.52	53.55	28.68	4.56	35.16	51.63	74.00	-22.37	Peak
2390.00	51.12	28.80	4.60	35.18	49.34	74.00	-24.66	Peak
2411.98	107.03	28.90	4.65	35.20	105.38	74.00	31.38	Peak

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



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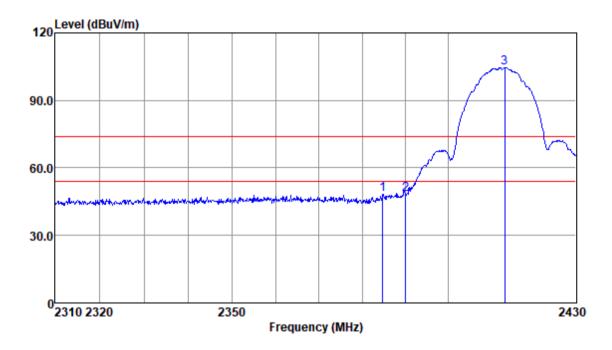
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	
2384.77	50.18	28.80	4.60	35.18	48.40	74.00	-25.60	Peak
2390.00	50.15	28.80	4.60	35.18	48.37	74.00	-25.63	Peak
2413.20	106.33	28.90	4.65	35.20	104.68	74.00	30.68	Peak

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



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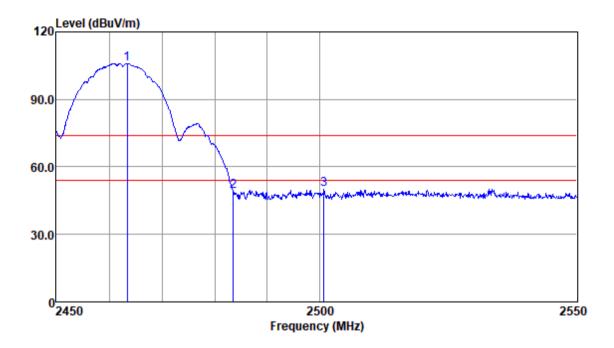
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



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	
2463.37	107.38	29.05	4.74	35.24	105.93	74.00	31.93	Peak
2483.50	50.69	29.09	4.78	35.26	49.30	74.00	-24.70	Peak
2500.90	51.31	29.12	4.80	35.27	49.96	74.00	-24.04	Peak

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



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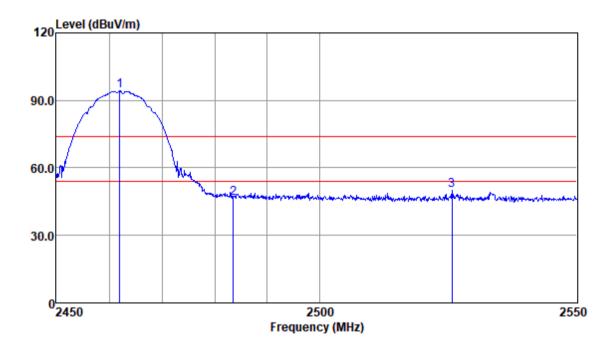
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



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	95.73	29.05	4.74	35.24	94.28	74.00	20.28	Peak
2483.50	47.78	29.09	4.78	35.26	46.39	74.00	-27.61	Peak
2525.63	51.56	29.13	4.85	35.31	50.23	74.00	-23.77	Peak

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



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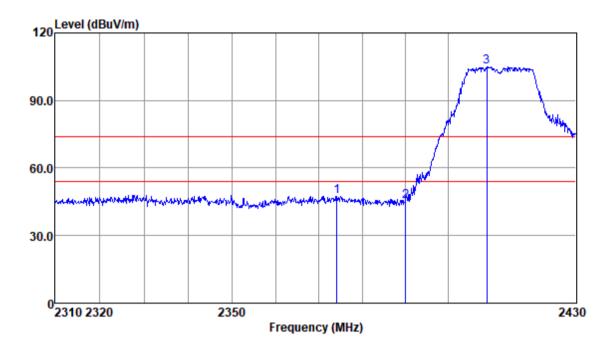
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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	
2374.17	49.39	28.71	4.57	35.17	47.50	74.00	-26.50	Peak
2390.00	46.92	28.80	4.60	35.18	45.14	74.00	-28.86	Peak
2408.93	106.75	28.89	4.64	35.20	105.08	74.00	31.08	Peak

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



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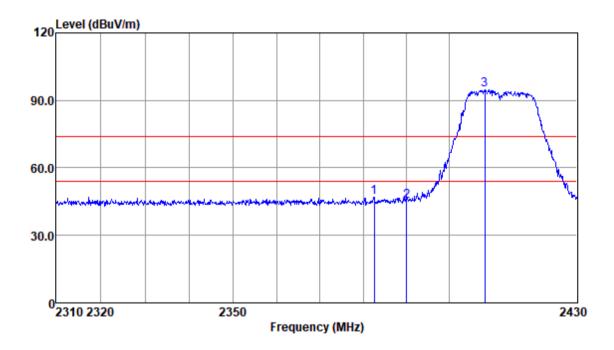
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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	
2382.48	48.67	28.76	4.59	35.17	46.85	74.00	-27.15	Peak
2390.00	47.17	28.80	4.60	35.18	45.39	74.00	-28.61	Peak
2408.32	96.45	28.89	4.64	35.20	94.78	74.00	20.78	Peak

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



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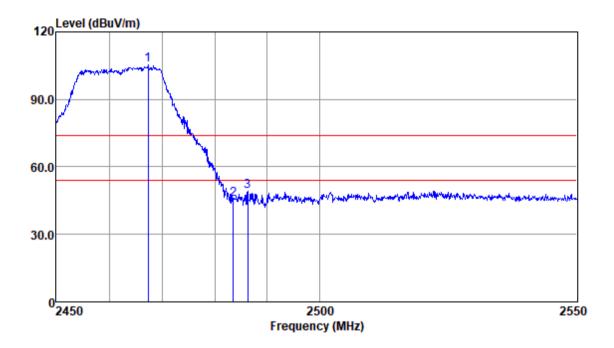
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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	
2467.31	106.75	29.05	4.74	35.24	105.30	74.00	31.30	Peak
2483.50	47.19	29.09	4.78	35.26	45.80	74.00	-28.20	Peak
2486.34	50.37	29.09	4.78	35.26	48.98	74.00	-25.02	Peak

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



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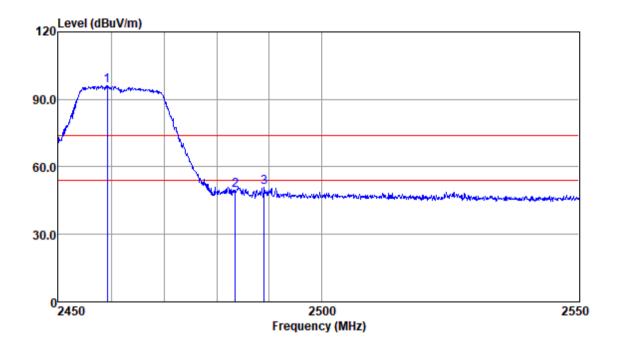
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
					dBuv/m			
					96.14 49.62			
2489.02	52.44	29.09	4.78	35.26	51.05	74.00	-22.95	Peak

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



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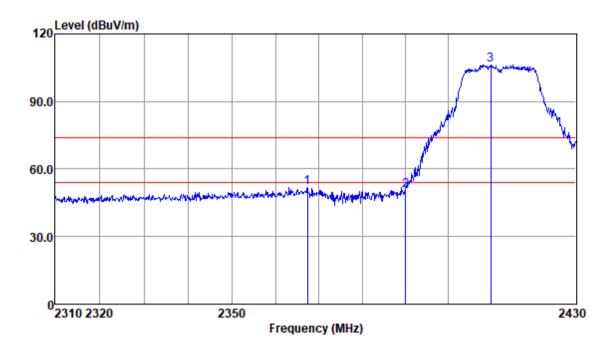
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	
2367.32	53.59	28.68	4.56	35.16	51.67	74.00	-22.33	Peak
2390.00	52.05	28.80	4.60	35.18	50.27	74.00	-23.73	Peak
2409.90	107.82	28.89	4.64	35.20	106.15	74.00	32.15	Peak

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



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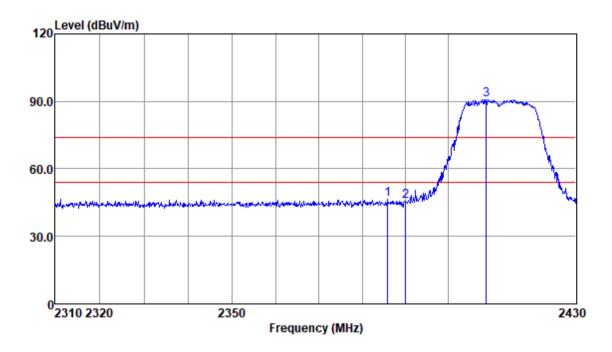
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2385.86	48.41	28.80	4.60	35.18	46.63	74.00	-27.37	Peak
2390.00	47.38	28.80	4.60	35.18	45.60	74.00	-28.40	Peak
2408.80	92.63	28.89	4.64	35.20	90.96	74.00	16.96	Peak

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



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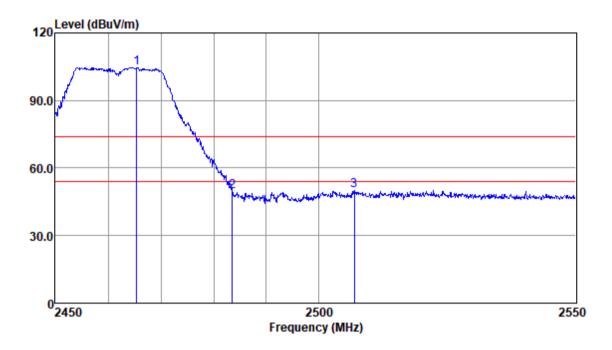
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	
2465.34	106.10	29.05	4.74	35.24	104.65	74.00	30.65	Peak
2483.50	50.85	29.09	4.78	35.26	49.46	74.00	-24.54	Peak
2506.91	51.47	29.13	4.81	35.28	50.13	74.00	-23.87	Peak

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



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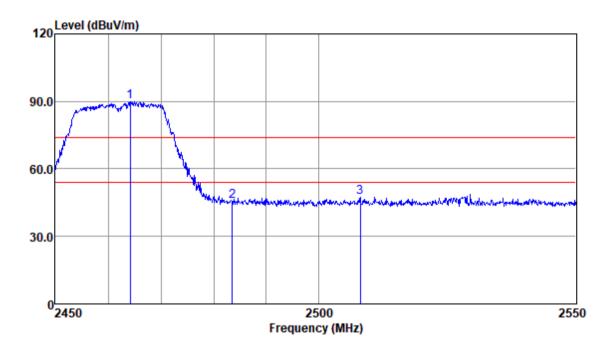
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
					dBuv/m			Davis
					89.97 45.58			
2508.11	48.55	29.13	4.81	35.28	47.21	74.00	-26.79	Peak

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



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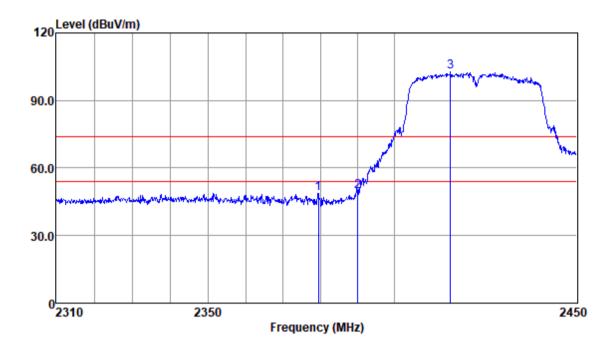
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	
2379.39	50.34	28.76	4.59	35.17	48.52	74.00	-25.48	Peak
2390.00	51.23	28.80	4.60	35.18	49.45	74.00	-24.55	Peak
2415.22	104.22	28.90	4.65	35.20	102.57	74.00	28.57	Peak

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



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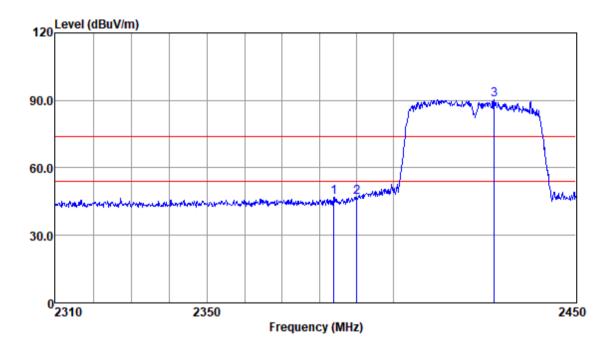
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
					dBuv/m			DI-
2383.88					47.01 46.82			
2427.47	91.97	28.96	4.67	35.21	90.39	74.00	16.39	Peak

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



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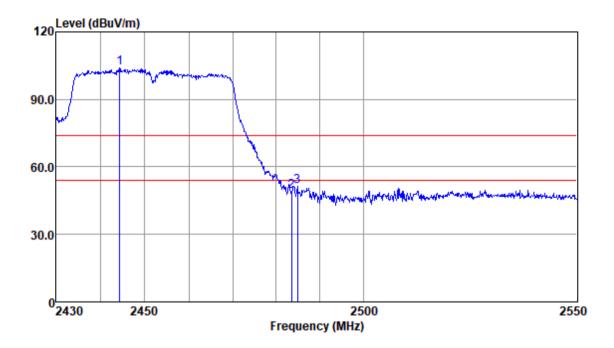
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2444.33	105.68	28.99	4.70	35.22	104.15	74.00	30.15	Peak
2483.50	50.36	29.09	4.78	35.26	48.97	74.00	-25.03	Peak
2484.84	52.73	29.09	4.78	35.26	51.34	74.00	-22.66	Peak

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



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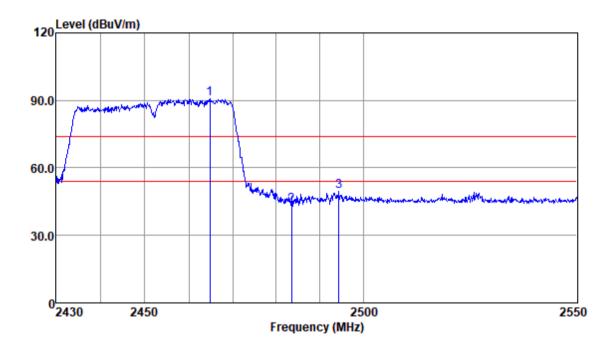
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



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	
2464.80	92.32	29.05	4.74	35.24	90.87	74.00	16.87	Peak
2483.50	44.94	29.09	4.78	35.26	43.55	74.00	-30.45	Peak
2494.44	51.03	29.10	4.79	35.26	49.66	74.00	-24.34	Peak

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



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7.8 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

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 49.8 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

	. 10.1 100t mode 2000. pt. 01							
Pre-scan / Final test	Mode Code	Description						
Final test	01	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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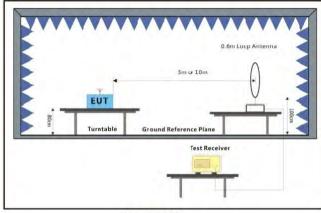
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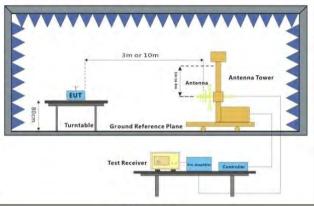


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7.8.3 Test Setup Diagram





Below 30MHz

30MHz-1GHz



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7.8.4 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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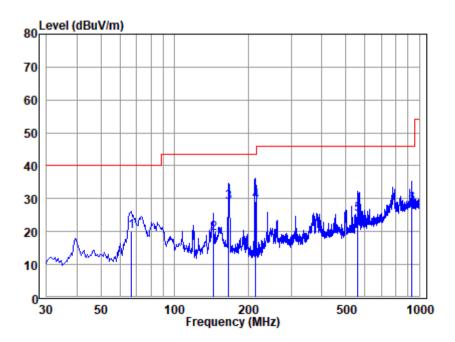
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Test Mode: 01; Polarity: Horizontal



Antenna Polarity :Horizontal EUT/Project :2052AT Test mode :01

MHz dBuv dB/m dB dB dBuv/m dBuv/m dB 1 66.39 37.81 12.13 2.04 31.87 20.11 40.00 -19.89 QF 2 144.03 35.46 13.12 2.88 31.93 19.53 43.50 -23.97 QF 3 165.87 44.88 12.99 3.18 32.30 28.75 43.50 -14.75 QF 4 213.42 48.25 9.82 3.59 32.52 29.14 43.50 -14.36 QF		Freq					Emission Level			Remark
2 144.03 35.46 13.12 2.88 31.93 19.53 43.50 -23.97 QF 3 165.87 44.88 12.99 3.18 32.30 28.75 43.50 -14.75 QF 4 213.42 48.25 9.82 3.59 32.52 29.14 43.50 -14.36 QF		MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
5 562.31 33.37 18.96 6.00 33.21 25.12 46.00 -20.88 QF	2 3 4	144.03 165.87 213.42	35.46 44.88 48.25	13.12 12.99 9.82	2.88 3.18 3.59	31.93 32.30 32.52	19.53 28.75 29.14	43.50 43.50 43.50	-23.97 -14.75 -14.36	QP QP QP

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



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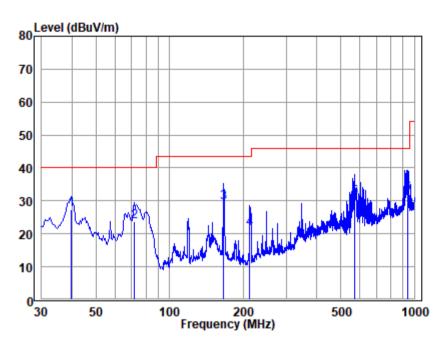
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Test Mode: 01; Polarity: Vertical



Antenna Polarity :Vertical EUT/Project :2052AT Test mode :01

	Freq					Emission Level			Remark
	MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
2 3 4 5	165.87 212.94	42.25 45.54 40.77 39.17	11.13 12.99 9.81 19.01	2.05 3.18 3.58	31.80 31.80 32.30 32.52 33.26 29.75	27.27 23.63 29.41 21.64 30.94 32.31	40.00 43.50 43.50 46.00	-12.73 -16.37 -14.09 -21.86 -15.06	QP QP QP QP

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



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7.9 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

7.9.1 E.U.T. Operation

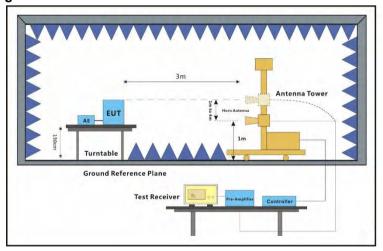
Operating Environment:

Temperature: 23.7 °C Humidity: 49.8 % RH Atmospheric Pressure: 1010 mbar

7.9.2 Test Mode Description

7.0.2 Test mode Besonption							
Pre-scan / Final test	Mode Code	Description					
Final test	01	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.					

7.9.3 Test Setup Diagram





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7.9.4 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 in the report.



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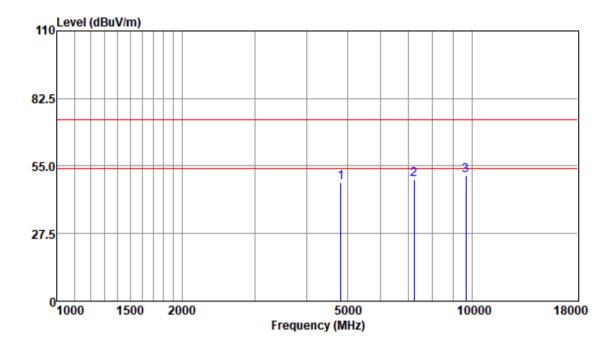
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	
4824.00	43.81	33.78	7.46	36.79	48.26	74.00	-25.74	Peak
7236.00	40.86	36.35	7.80	35.50	49.51	74.00	-24.49	Peak
9648.00	38.54	37.69	8.57	33.56	51.24	74.00	-22.76	Peak

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



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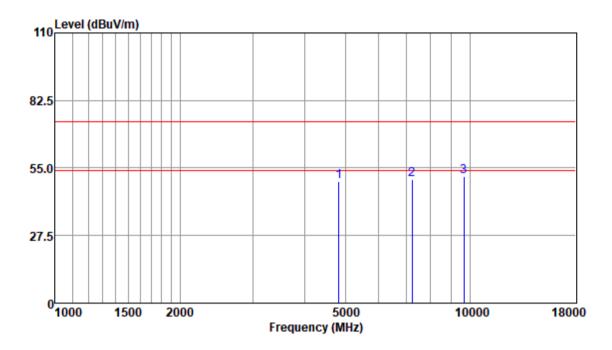
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



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	
4824.00	45.06	33.78	7.46	36.79	49.51	74.00	-24.49	Peak
7236.00	41.61	36.35	7.80	35.50	50.26	74.00	-23.74	Peak
9648.00	38.88	37.69	8.57	33.56	51.58	74.00	-22.42	Peak

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



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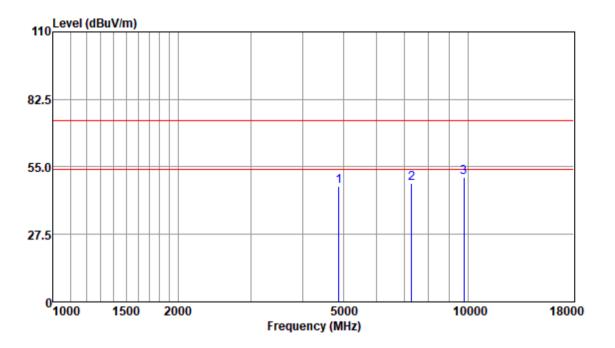
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	42.57	33.93	7.46	36.81	47.15	74.00	-26.85	Peak
7311.00	39.40	36.47	7.82	35.44	48.25	74.00	-25.75	Peak
9748.00	37.99	37.68	8.57	33.50	50.74	74.00	-23.26	Peak

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



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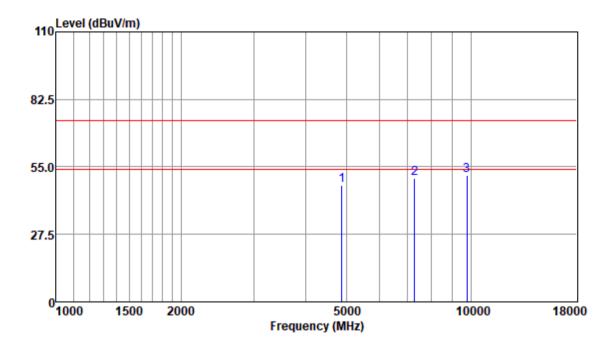
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



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	
4874.00	42.94	33.93	7.46	36.81	47.52	74.00	-26.48	Peak
7311.00	41.43	36.47	7.82	35.44	50.28	74.00	-23.72	Peak
9748.00	38.70	37.68	8.57	33.50	51.45	74.00	-22.55	Peak

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



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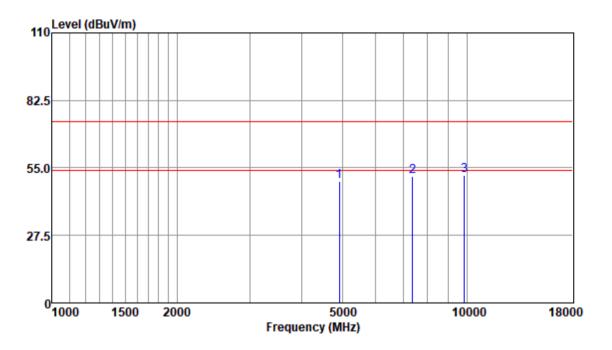
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4924.00	44.95	33.98	7.46	36.82	49.57	74.00	-24.43	Peak
7386.00	42.39	36.48	7.86	35.37	51.36	74.00	-22.64	Peak
9848.00	39.45	37.56	8.58	33.45	52.14	74.00	-21.86	Peak

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



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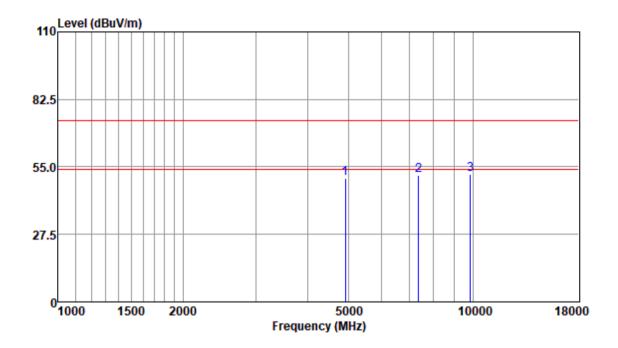
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Test Mode: 01; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
					dBuv/m			Dools
					50.14 51.69			
9848.00	39.45	37.56	8.58	33.45	52.14	74.00	-21.86	Peak

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



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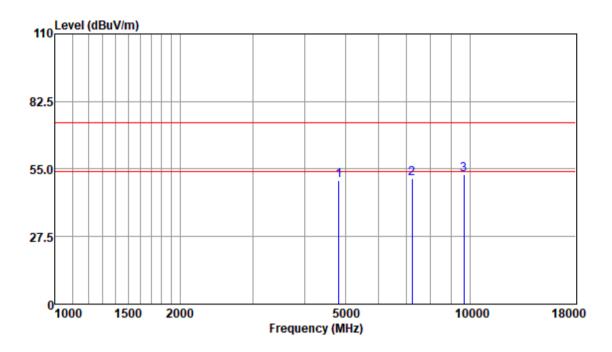
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
					dBuv/m			
4824.00	45.82	33.78	7.46	36.79	50.27	74.00	-23.73	Peak
7236.00	42.60	36.35	7.80	35.50	51.25	74.00	-22.75	Peak
9648.00	39.99	37.69	8.57	33.56	52.69	74.00	-21.31	Peak

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



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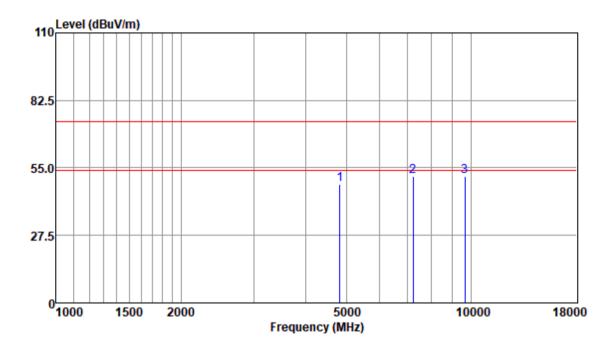
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



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	
4824.00	43.79	33.78	7.46	36.79	48.24	74.00	-25.76	Peak
7236.00	43.04	36.35	7.80	35.50	51.69	74.00	-22.31	Peak
9648.00	38.77	37.69	8.57	33.56	51.47	74.00	-22.53	Peak

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



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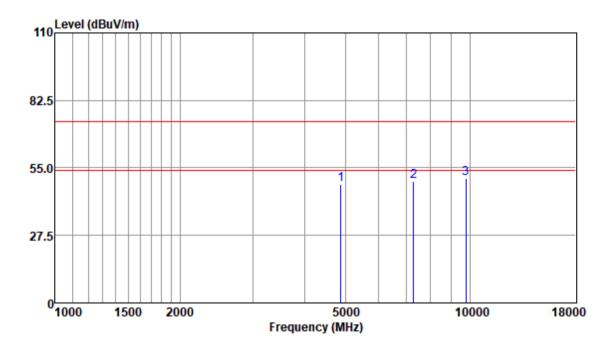
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



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	43.56	33.93	7.46	36.81	48.14	74.00	-25.86	Peak
7311.00	40.67	36.47	7.82	35.44	49.52	74.00	-24.48	Peak
9748.00	37.90	37.68	8.57	33.50	50.65	74.00	-23.35	Peak

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



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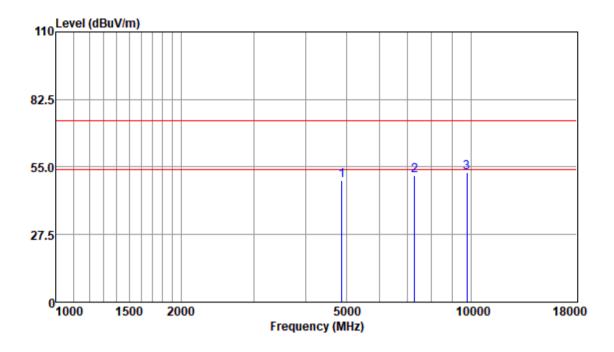
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



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	
4874.00	44.83	33.93	7.46	36.81	49.41	74.00	-24.59	Peak
7311.00	42.71	36.47	7.82	35.44	51.56	74.00	-22.44	Peak
9748.00	39.99	37.68	8.57	33.50	52.74	74.00	-21.26	Peak

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



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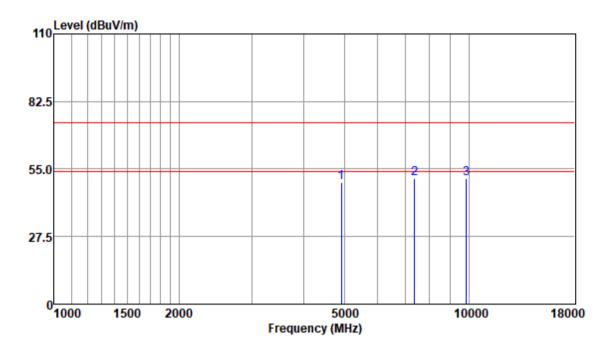
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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	44.92	33.98	7.46	36.82	49.54	74.00	-24.46	Peak
7386.00	42.18	36.48	7.86	35.37	51.15	74.00	-22.85	Peak
9848.00	38.60	37.56	8.58	33.45	51.29	74.00	-22.71	Peak

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



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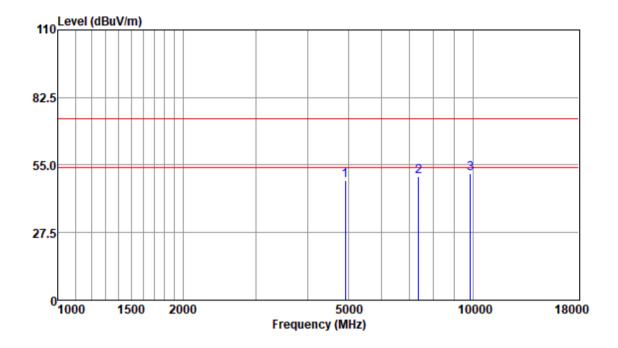
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Test Mode: 01; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:High



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	43.99	33.98	7.46	36.82	48.61	74.00	-25.39	Peak
7386.00	41.25	36.48	7.86	35.37	50.22	74.00	-23.78	Peak
9848.00	38.78	37.56	8.58	33.45	51.47	74.00	-22.53	Peak

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



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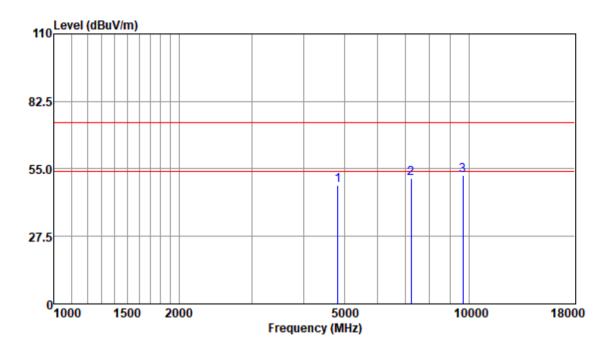
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4824.00	43.69	33.78	7.46	36.79	48.14	74.00	-25.86	Peak
7236.00	42.64	36.35	7.80	35.50	51.29	74.00	-22.71	Peak
9648.00	39.47	37.69	8.57	33.56	52.17	74.00	-21.83	Peak

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



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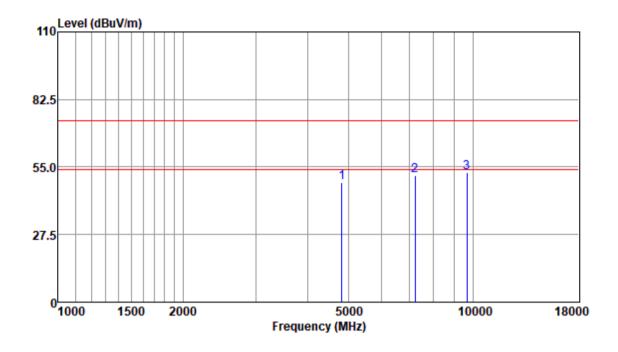
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



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	
4824.00	44.06	33.78	7.46	36.79	48.51	74.00	-25.49	Peak
7236.00	43.03	36.35	7.80	35.50	51.68	74.00	-22.32	Peak
9648.00	40.02	37.69	8.57	33.56	52.72	74.00	-21.28	Peak

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



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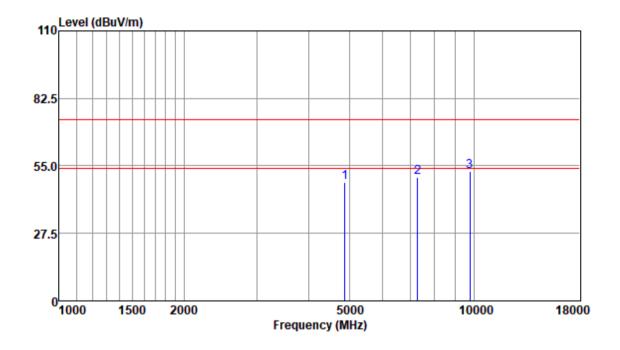
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	43.87	33.93	7.46	36.81	48.45	74.00	-25.55	Peak
7311.00	41.29	36.47	7.82	35.44	50.14	74.00	-23.86	Peak
9748.00	39.89	37.68	8.57	33.50	52.64	74.00	-21.36	Peak

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



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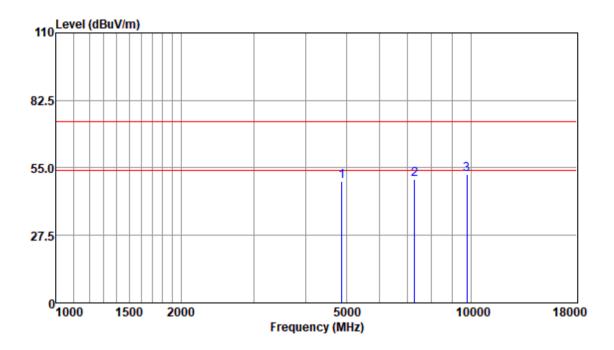
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



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	
4874.00	44.96	33.93	7.46	36.81	49.54	74.00	-24.46	Peak
7311.00	41.40	36.47	7.82	35.44	50.25	74.00	-23.75	Peak
9748.00	39.80	37.68	8.57	33.50	52.55	74.00	-21.45	Peak

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



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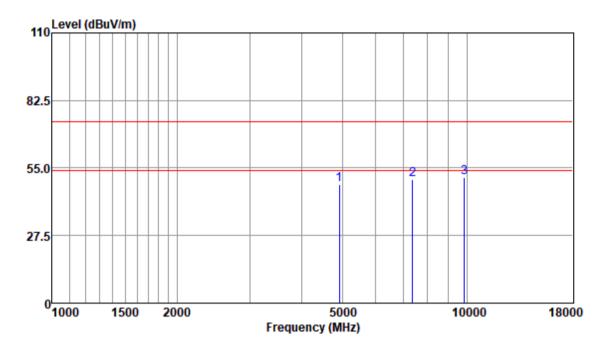
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	43.63	33.98	7.46	36.82	48.25	74.00	-25.75	Peak
7386.00	41.49	36.48	7.86	35.37	50.46	74.00	-23.54	Peak
9848.00	38.46	37.56	8.58	33.45	51.15	74.00	-22.85	Peak

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



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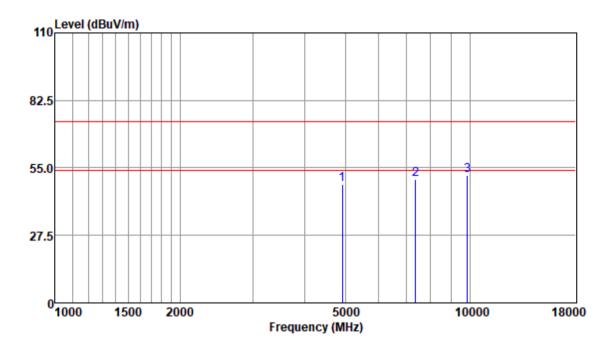
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



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	43.53	33.98	7.46	36.82	48.15	74.00	-25.85	Peak
7386.00	41.25	36.48	7.86	35.37	50.22	74.00	-23.78	Peak
9848.00	39.29	37.56	8.58	33.45	51.98	74.00	-22.02	Peak

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



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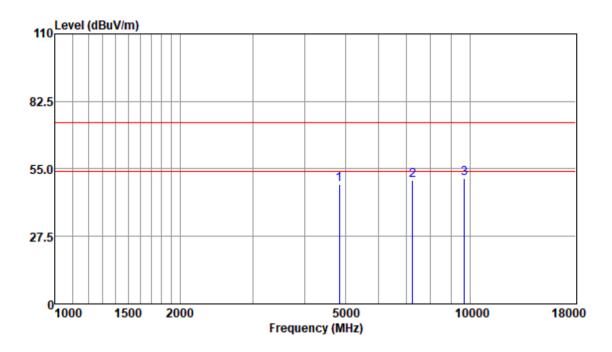
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4844.00	44.00	33.89	7.46	36.80	48.55	74.00	-25.45	Peak
7266.00	41.43	36.39	7.80	35.48	50.14	74.00	-23.86	Peak
9688.00	38.43	37.79	8.57	33.53	51.26	74.00	-22.74	Peak

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



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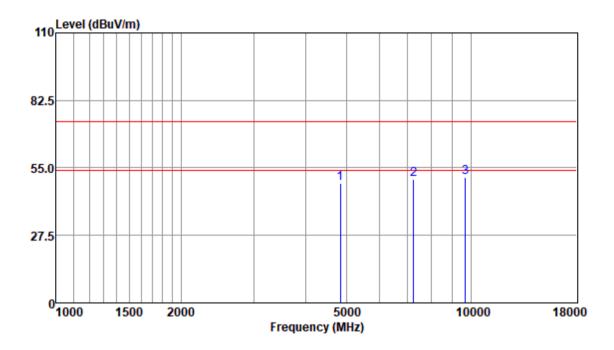
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



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	
4844.00	43.96	33.89	7.46	36.80	48.51	74.00	-25.49	Peak
7266.00	41.43	36.39	7.80	35.48	50.14	74.00	-23.86	Peak
9688.00	38.39	37.79	8.57	33.53	51.22	74.00	-22.78	Peak

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



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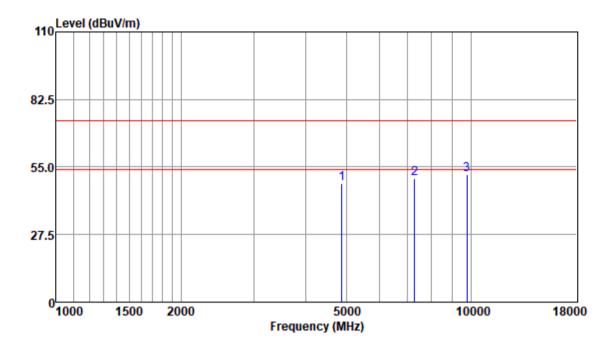
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4874.00	43.56	33.93	7.46	36.81	48.14	74.00	-25.86	Peak
7311.00	41.37	36.47	7.82	35.44	50.22	74.00	-23.78	Peak
9748.00	39.24	37.68	8.57	33.50	51.99	74.00	-22.01	Peak

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



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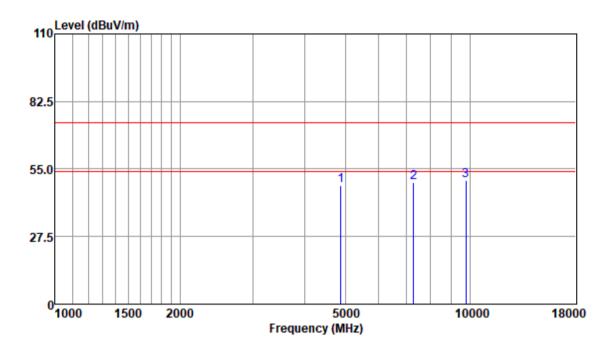
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



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	
4874.00	43.56	33.93	7.46	36.81	48.14	74.00	-25.86	Peak
7311.00	40.70	36.47	7.82	35.44	49.55	74.00	-24.45	Peak
9748.00	37.54	37.68	8.57	33.50	50.29	74.00	-23.71	Peak

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



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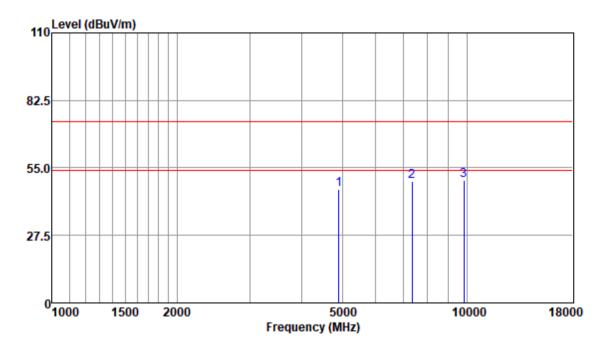
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : HORIZONTAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	41.66	33.97	7.46	36.81	46.28	74.00	-27.72	Peak
7356.00	40.68	36.47	7.84	35.41	49.58	74.00	-24.42	Peak
9808.00	37.46	37.55	8.57	33.47	50.11	74.00	-23.89	Peak

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



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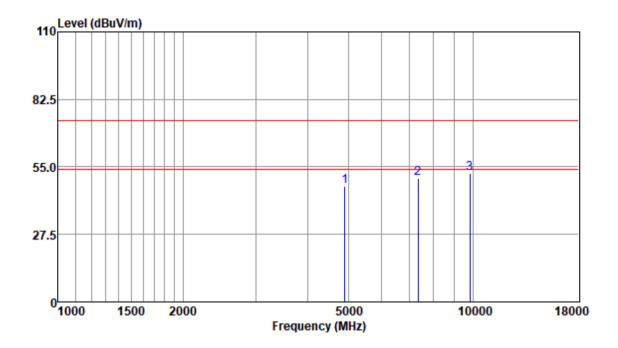
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Test Mode: 01; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Antenna Polarity : VERTICAL

Freq					Emission Level			Remark
MHz	dBuv	dB/m	dB	dB	dBuv/m	dBuv/m	dB	
4904.00	42.52	33.97	7.46	36.81	47.14	74.00	-26.86	Peak
7356.00	41.38	36.47	7.84	35.41	50.28	74.00	-23.72	Peak
9808.00	39.68	37.55	8.57	33.47	52.33	74.00	-21.67	Peak

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



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8 Test Setup Photographs

Refer to the < Test Setup photos >.

9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

10 Appendix

10.1 Appendix A: DTS Bandwidth

10.1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B		2412	9.480	2407.480	2416.960	≥0.5	PASS
	Ant1	2437	9.080	2432.440	2441.520	≥0.5	PASS
		2462	8.560	2457.480	2466.040	≥0.5	PASS
		2412	16.520	2403.760	2420.280	≥0.5	PASS
11G	Ant1	2437	16.520	2428.760	2445.280	≥0.5	PASS
		2462	16.520	2453.720	2470.240	≥0.5	PASS
	Ant1	2412	17.640	2403.160	2420.800	≥0.5	PASS
11N20SISO		2437	17.640	2428.160	2445.800	≥0.5	PASS
		2462	17.720	2453.120	2470.840	≥0.5	PASS
11N40SISO		2422	36.320	2403.840	2440.160	≥0.5	PASS
	Ant1	2437	36.320	2418.840	2455.160	≥0.5	PASS
		2452	36.320	2433.840	2470.160	≥0.5	PASS



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10.1.2 Test Graphs



11B Ant1 2462



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11G_Ant1_2437



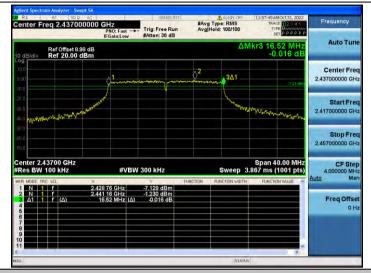
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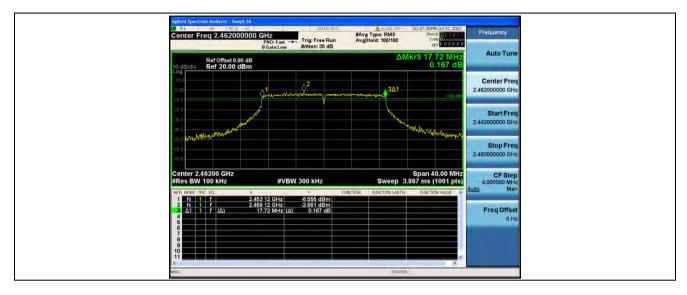
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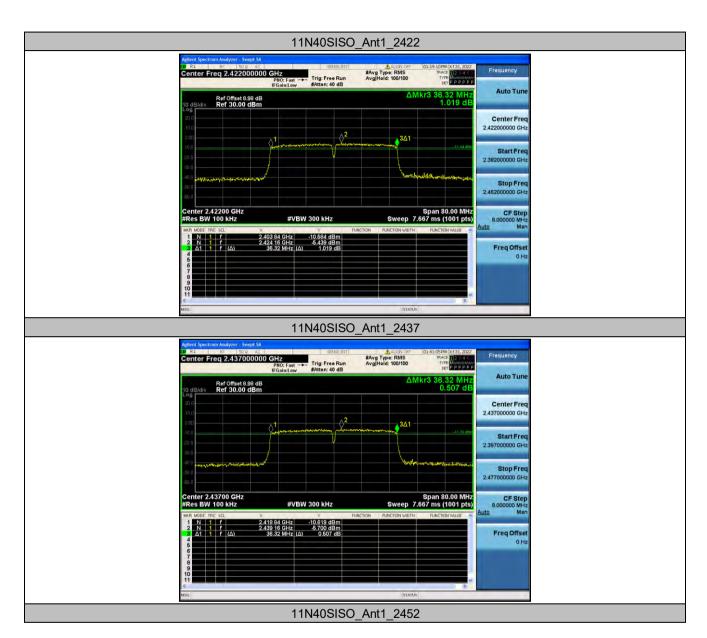
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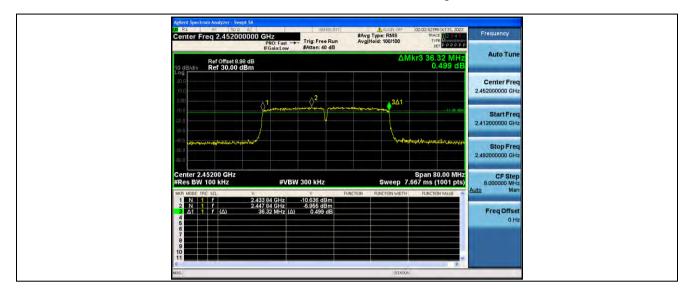
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10.2 Appendix B: Occupied Channel Bandwidth 10.2.1 Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
		2412	14.707	2404.6974	2419.4044		
11B	Ant1	2437	14.705	2429.7197	2444.4247		
		2462	14.722	2454.6512	2469.3732		
		2412	16.786	2403.5892	2420.3752		
11G	Ant1	2437	16.785	2428.5860	2445.3710		
		2462	16.841	2453.5090	2470.3500		
	Ant1	2412	17.857	2403.0759	2420.9329		
11N20SISO		2437	17.848	2428.1008	2445.9488		
		2462	17.816	2453.0847	2470.9007		
11N40SISO	Ant1	2422	35.924	2404.1136	2440.0376		
		2437	35.916	2419.1029	2455.0189		
		2452	35.901	2434.0980	2469.9990		



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10.2.2 Test Graphs





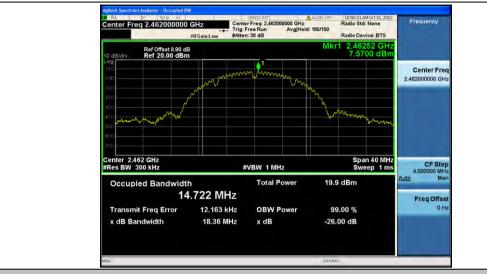
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11G Ant1 2437



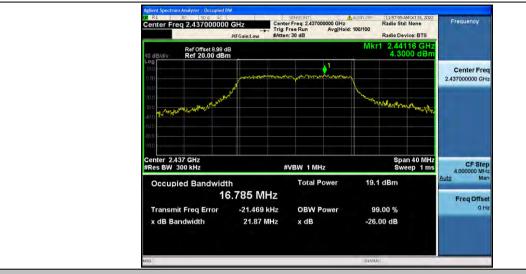
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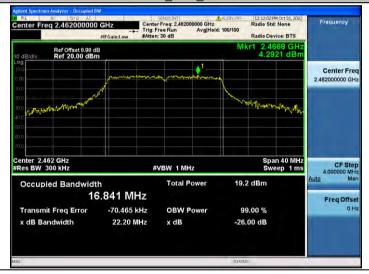


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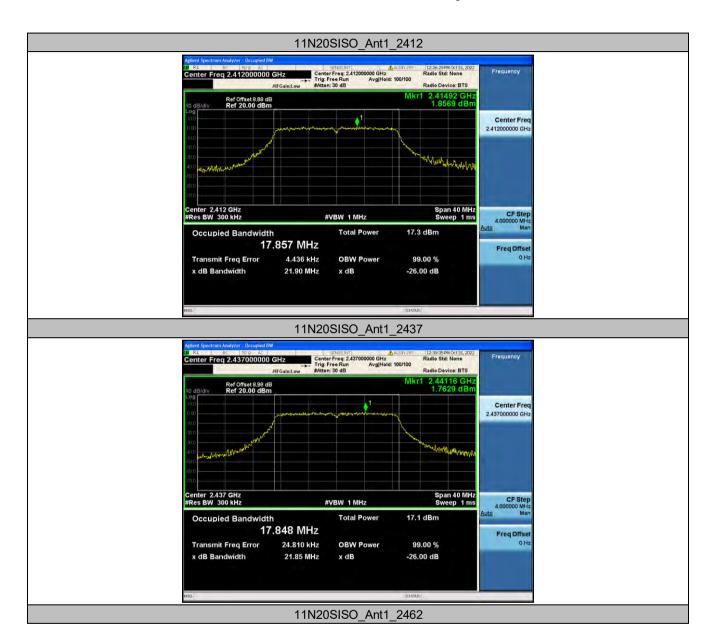
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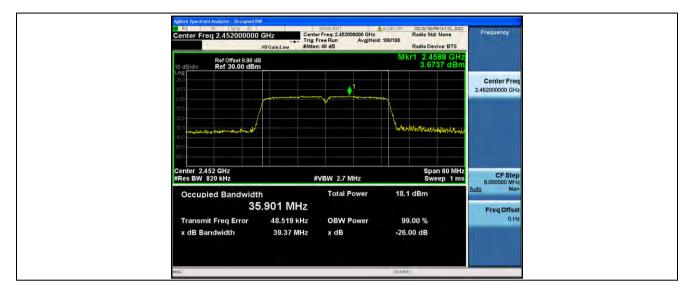
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10.3 Appendix C: Maximum conducted output power 10.3.1 Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
	Ant1	2412	16.04	≤30.00	PASS
11B		2437	15.76	≤30.00	PASS
		2462	15.94	≤30.00	PASS
	Ant1	2412	13.14	≤30.00	PASS
11G		2437	13.06	≤30.00	PASS
		2462	13.33	≤30.00	PASS
	Ant1	2412	11.33	≤30.00	PASS
11N20SISO		2437	11.17	≤30.00	PASS
		2462	11.38	≤30.00	PASS
11N40SISO	Ant1	2422	11.70	≤30.00	PASS
		2437	11.31	≤30.00	PASS
		2452	11.24	≤30.00	PASS



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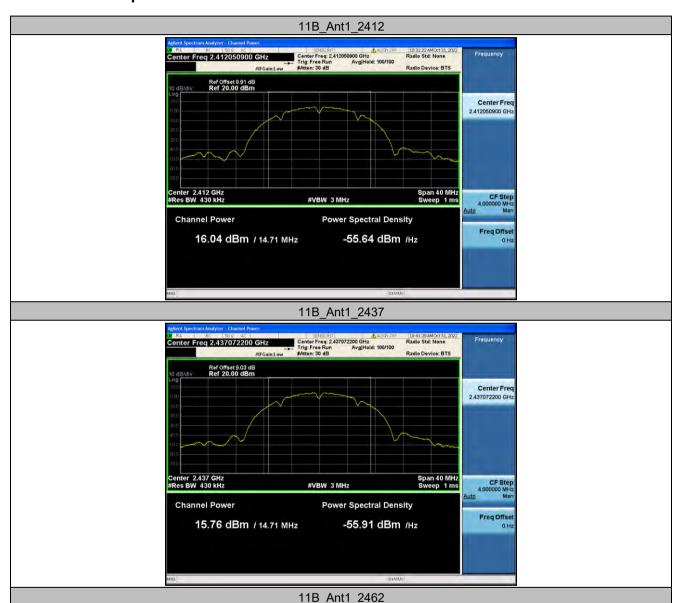
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10.3.2 Test Graphs





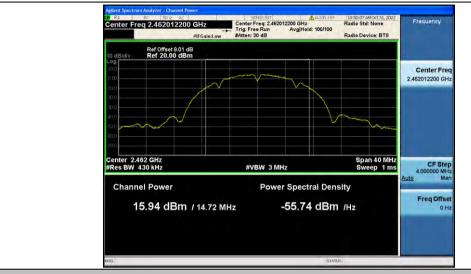
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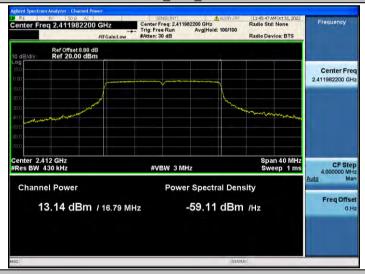
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11G_Ant1_2412



11G_Ant1_2437



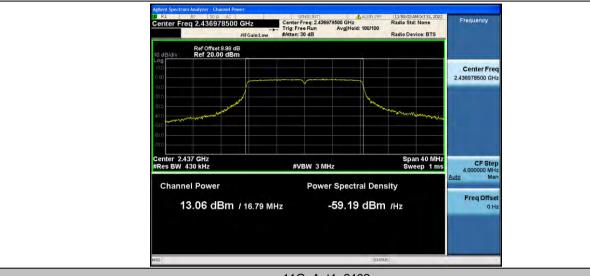
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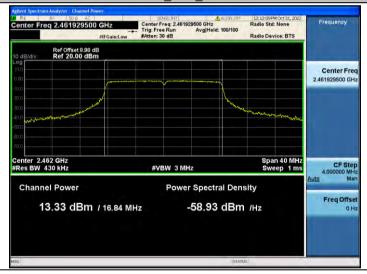


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11G_Ant1_2462





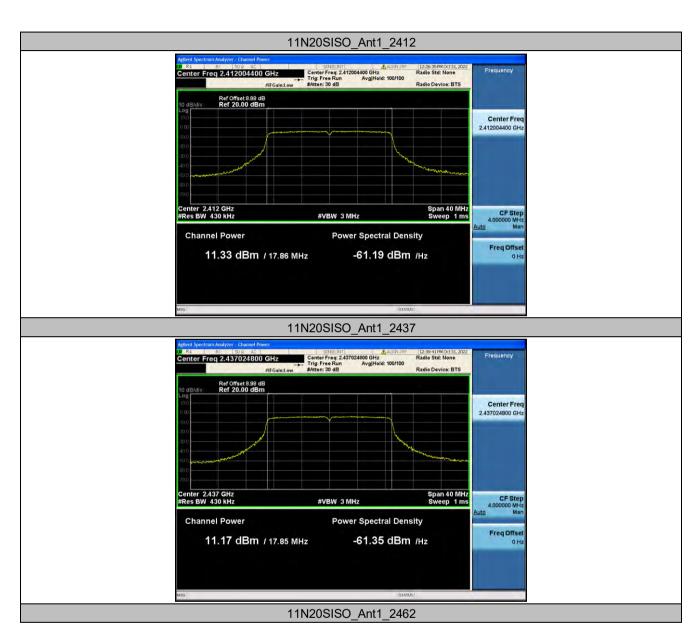
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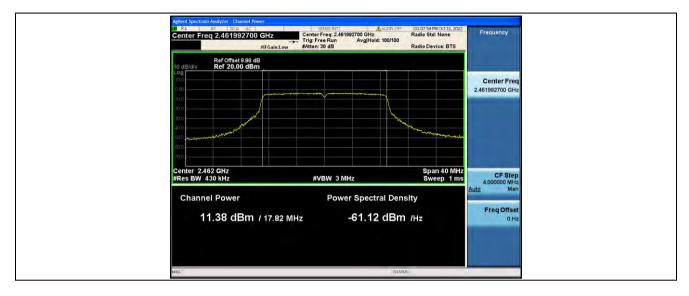
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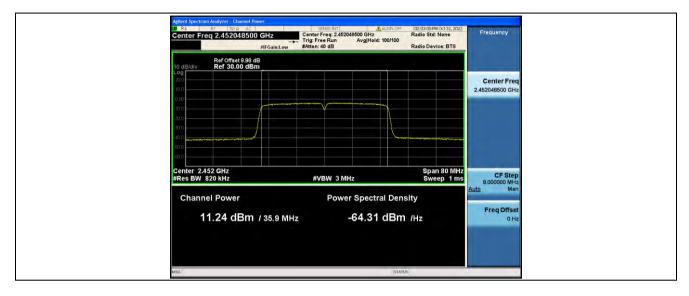
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10.4 Appendix D: Maximum power spectral density 10.4.1 Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
		2412	-16.54	≤8.00	PASS
11B	Ant1	2437	-16.63	≤8.00	PASS
		2462	-16.51	≤8.00	PASS
	Ant1	2412	-21.75	≤8.00	PASS
11G		2437	-21.81	≤8.00	PASS
		2462	-21.38	≤8.00	PASS
	Ant1	2412	-23.58	≤8.00	PASS
11N20SISO		2437	-23.74	≤8.00	PASS
		2462	-23.67	≤8.00	PASS
11N40SISO	Ant1	2422	-26.34	≤8.00	PASS
		2437	-26.94	≤8.00	PASS
		2452	-27.02	≤8.00	PASS



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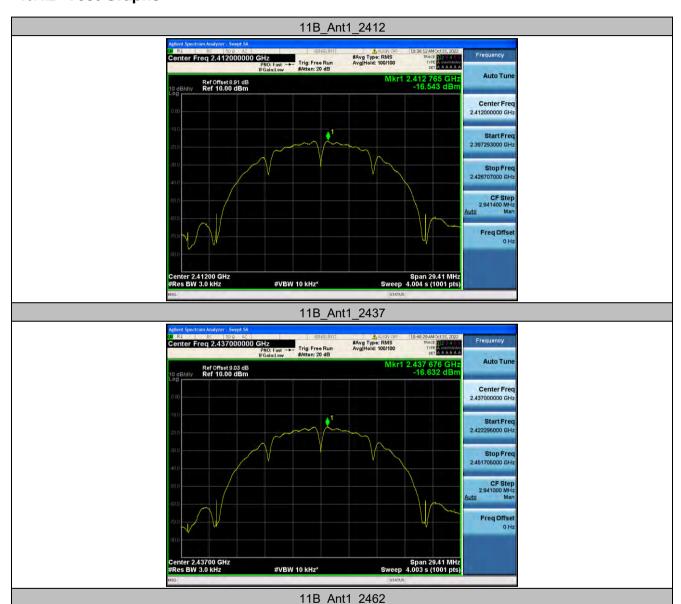
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10.4.2 Test Graphs





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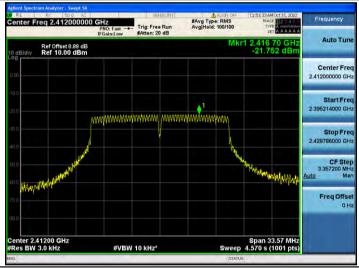
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11G_Ant1_2412



11G Ant1 2437



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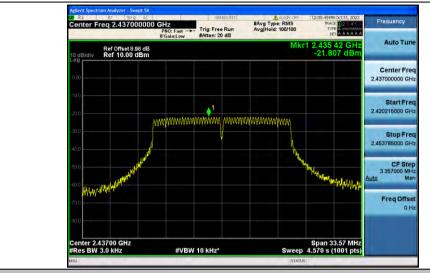
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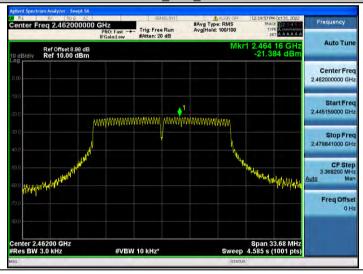


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11G_Ant1_2462





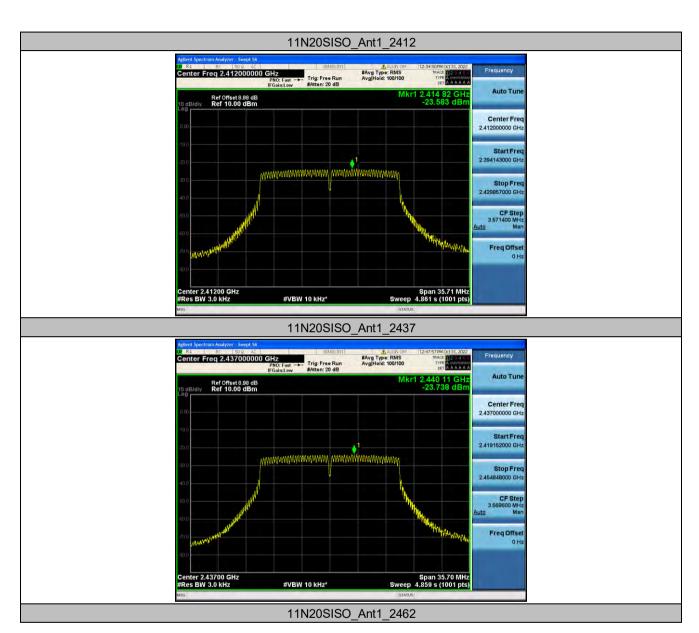
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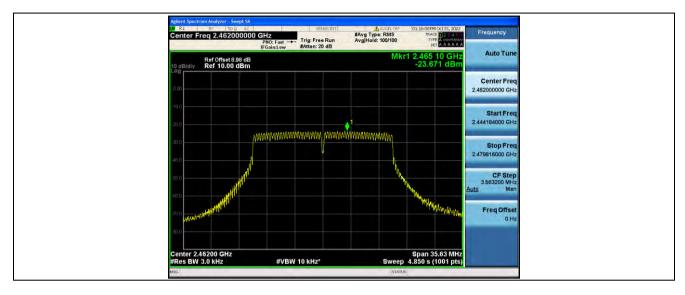
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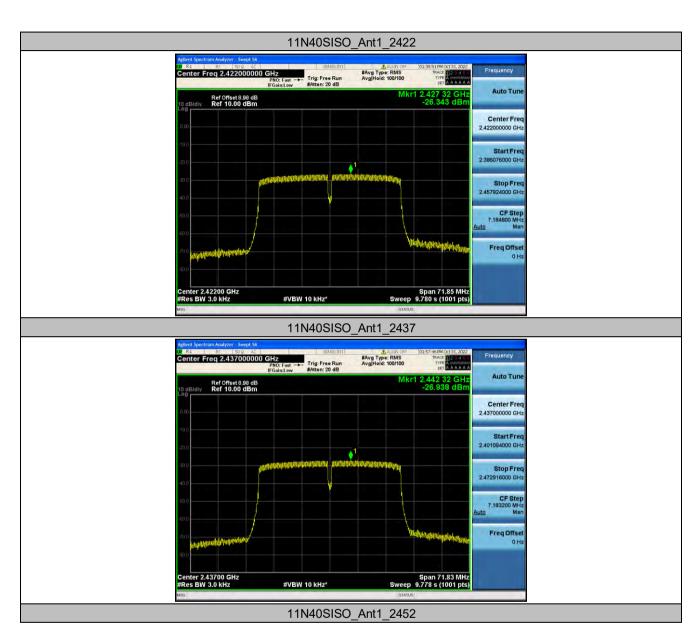
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10.5 Appendix E: Band edge measurements 10.5.1 Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
445	A 14	Low	2412	7.24	-37.97	≤-22.77	PASS
11B	Ant1	High	2462	7.51	-50.93	≤-22.5	PASS
11G	Ant1	Low	2412	-0.85	-31.34	≤-30.85	PASS
116		High	2462	-0.75	-39.98	≤-30.75	PASS
11N20SISO	Ant1	Low	2412	-2.93	-35.46	≤-32.93	PASS
		High	2462	-2.33	-45.56	≤-32.33	PASS
11N40SISO	Ant1	Low	2422	-5.83	-43.32	≤-35.83	PASS
		High	2452	-5.85	-41.97	≤-35.85	PASS



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10.5.2 Test Graphs



11G Ant1 Low 2412



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11G_Ant1_High_2462



11N20SISO Ant1 Low 2412



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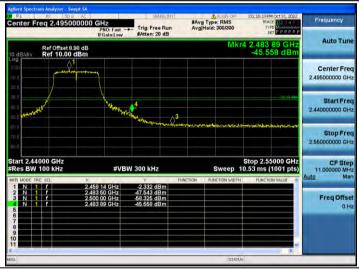


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11N20SISO_Ant1_High_2462





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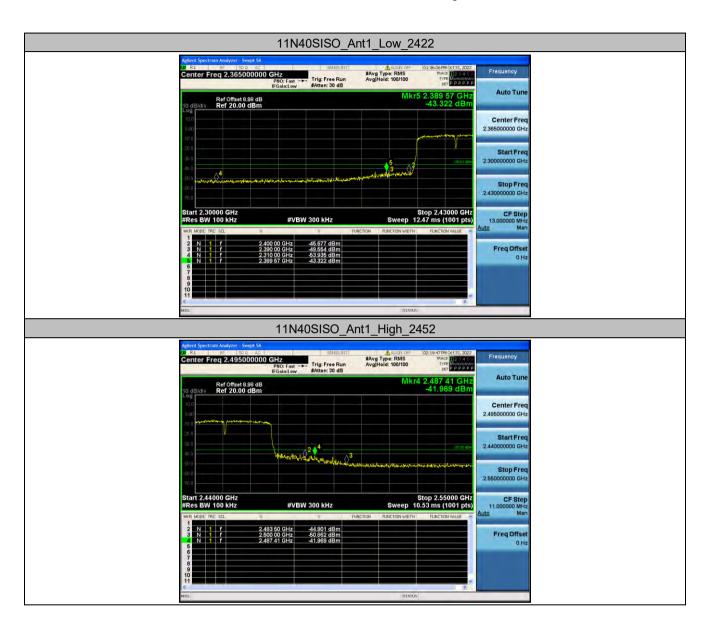
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10.6 Appendix F: Conducted Spurious Emission 10.6.1 Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	6.02	6.02		PASS
			30~1000	6.02	-61.09	≤-23.98	PASS
			1000~26500	6.02	-43.47	≤-23.98	PASS
		2437	Reference	6.44	6.44		PASS
			30~1000	6.44	-61.47	≤-23.56	PASS
			1000~26500	6.44	-43.16	≤-23.56	PASS
		2462	Reference	6.17	6.17		PASS
			30~1000	6.17	-60.8	≤-23.83	PASS
			1000~26500	6.17	-43.46	≤-23.83	PASS
		2412	Reference	-1.28	-1.28		PASS
			30~1000	-1.28	-61.85	≤-31.28	PASS
			1000~26500	-1.28	-43.21	≤-31.28	PASS
	Ant1	2437	Reference	-1.47	-1.47		PASS
11G			30~1000	-1.47	-61.64	≤-31.47	PASS
			1000~26500	-1.47	-43.2	≤-31.47	PASS
		2462	Reference	-1.41	-1.41		PASS
			30~1000	-1.41	-62.32	≤-31.41	PASS
			1000~26500	-1.41	-42.65	≤-31.41	PASS
11N20SISO	Ant1	2412	Reference	-3.38	-3.38		PASS
			30~1000	-3.38	-61.16	≤-33.38	PASS
			1000~26500	-3.38	-43.8	≤-33.38	PASS
		2437	Reference	-3.85	-3.85		PASS
			30~1000	-3.85	-60.6	≤-33.85	PASS
			1000~26500	-3.85	-43.63	≤-33.85	PASS
		2462	Reference	-3.38	-3.38		PASS
			30~1000	-3.38	-61.95	≤-33.38	PASS
			1000~26500	-3.38	-43.4	≤-33.38	PASS
	Ant1	2422	Reference	-6.97	-6.97		
			30~1000	-6.97	-61.05	≤-36.97	PASS
			1000~26500	-6.97	-42.37	≤-36.97	PASS
11N40SISO		2437	Reference	-7.12	-7.12		
			30~1000	-7.12	-60.49	≤-37.12	PASS
			1000~26500	-7.12	-43.67	≤-37.12	PASS
		2452	Reference	-6.37	-6.37		
			30~1000	-6.37	-61	≤-36.37	PASS
			1000~26500	-6.37	-44.07	≤-36.37	PASS



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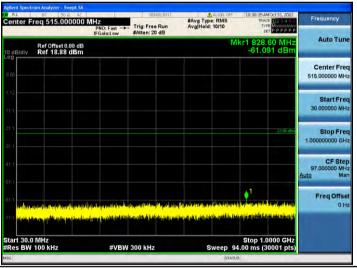


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10.6.2 Test Graphs





11B Ant1 2412 1000~26500



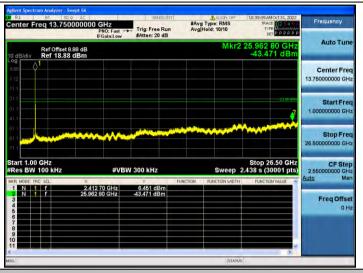
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11B_Ant1_2437_0~Reference



11B Ant1 2437 30~1000



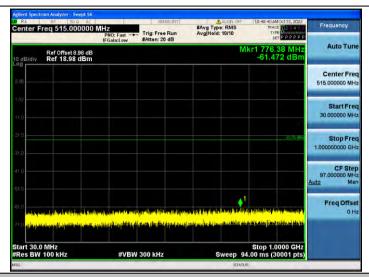
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11B_Ant1_2437_1000~26500





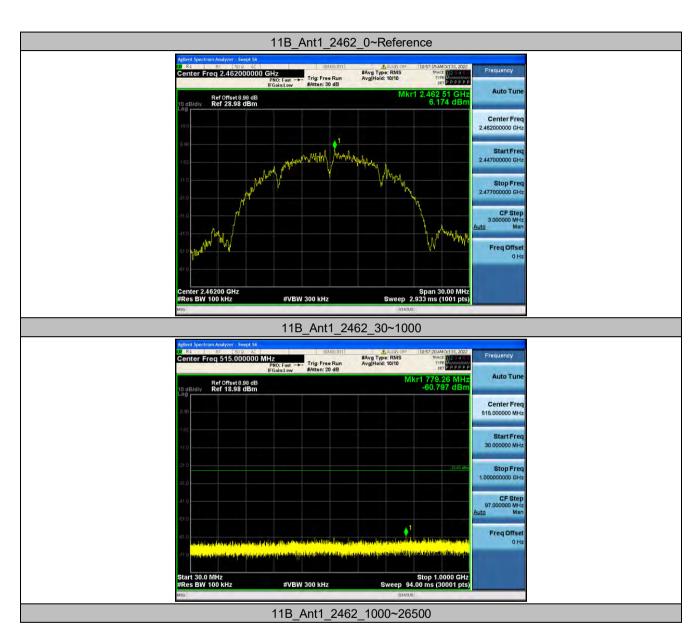
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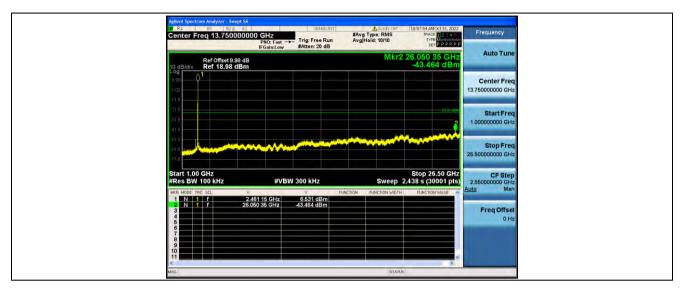
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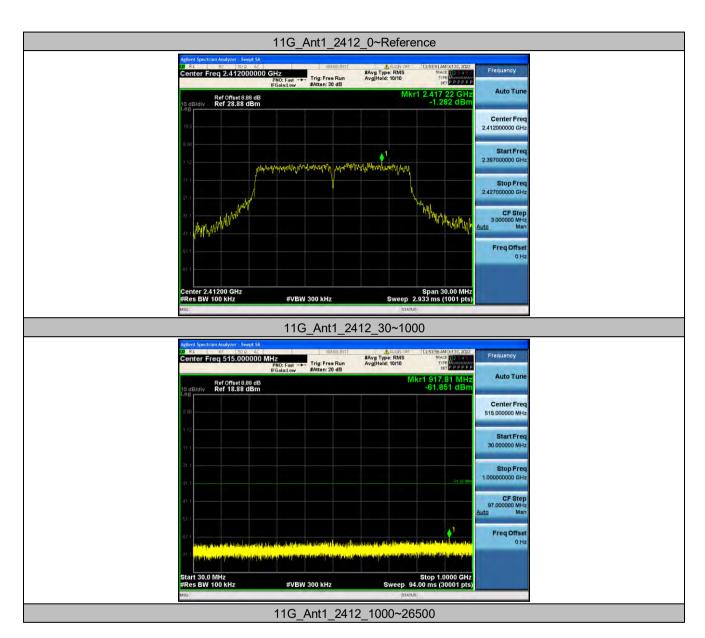
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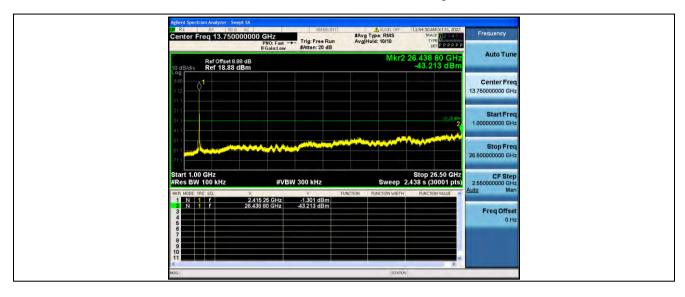
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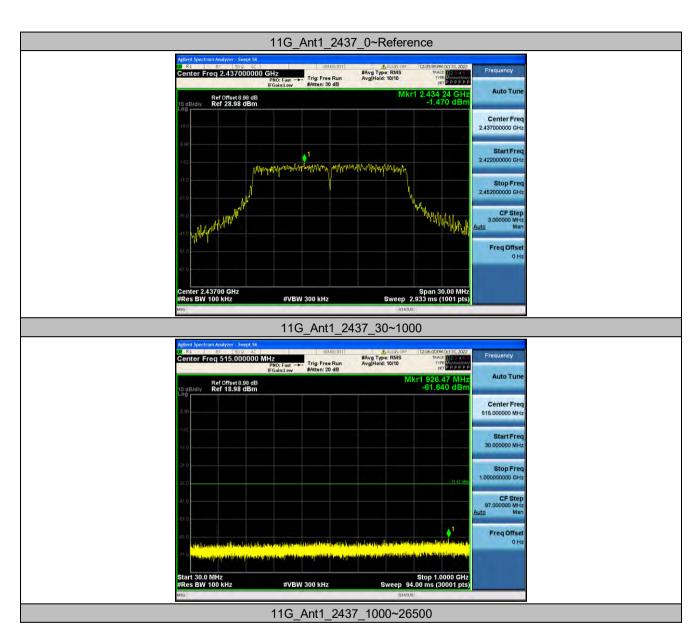
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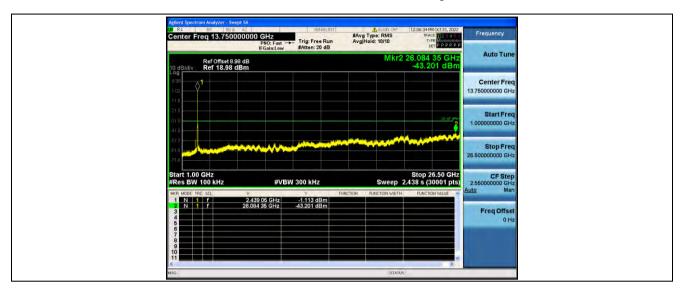
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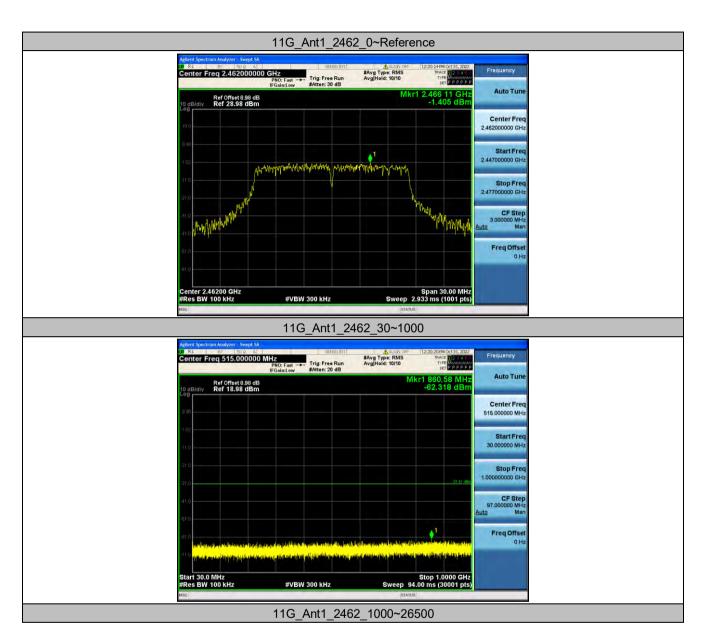
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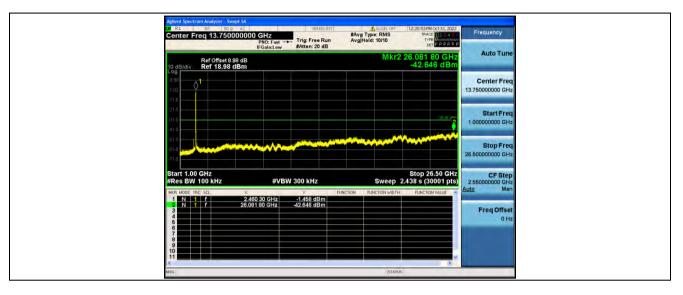
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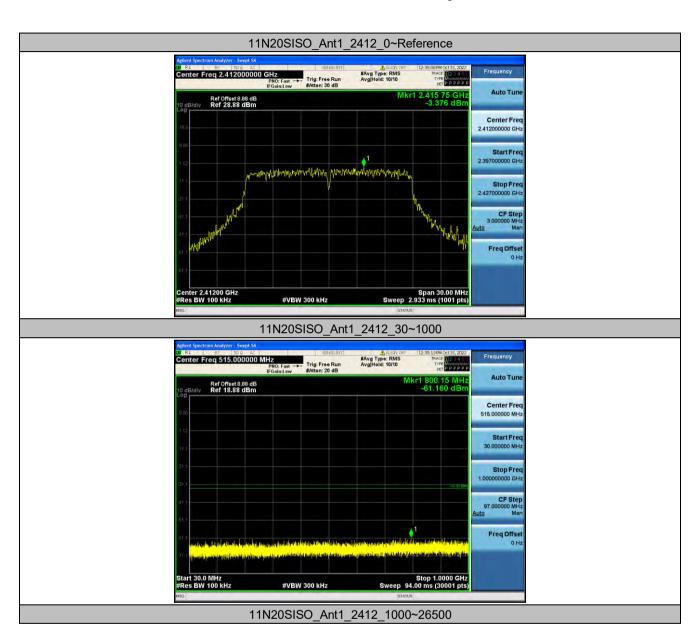
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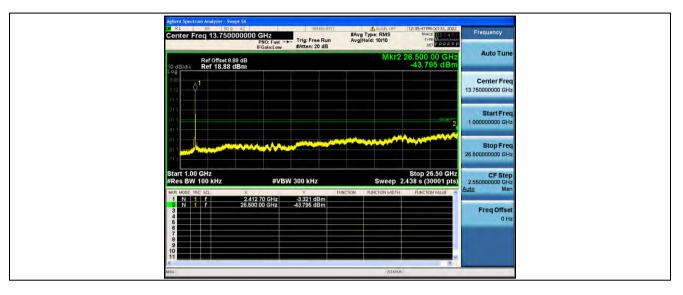
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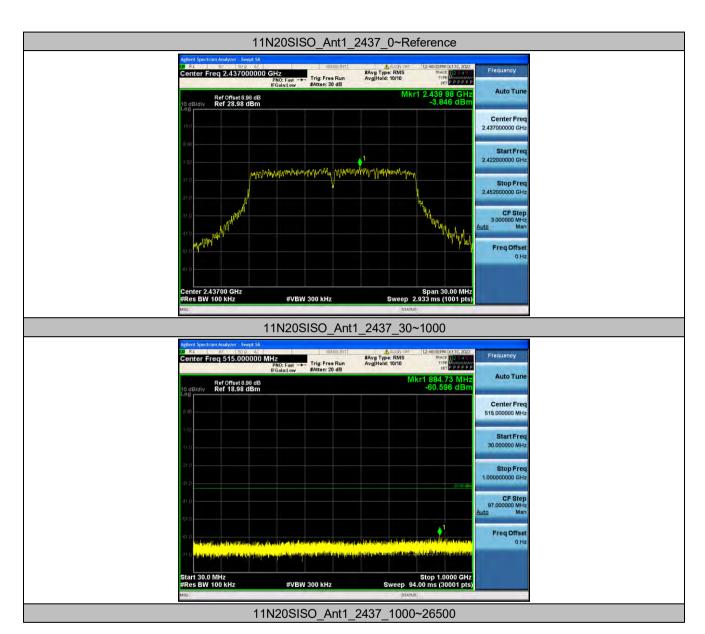
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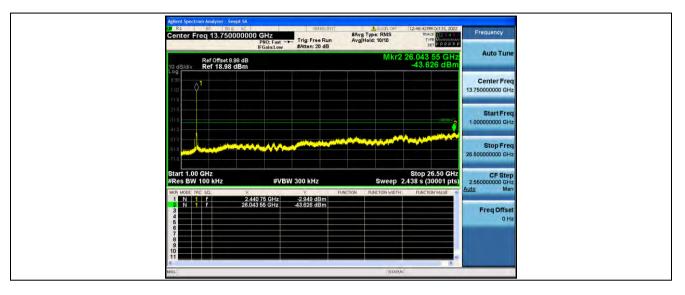
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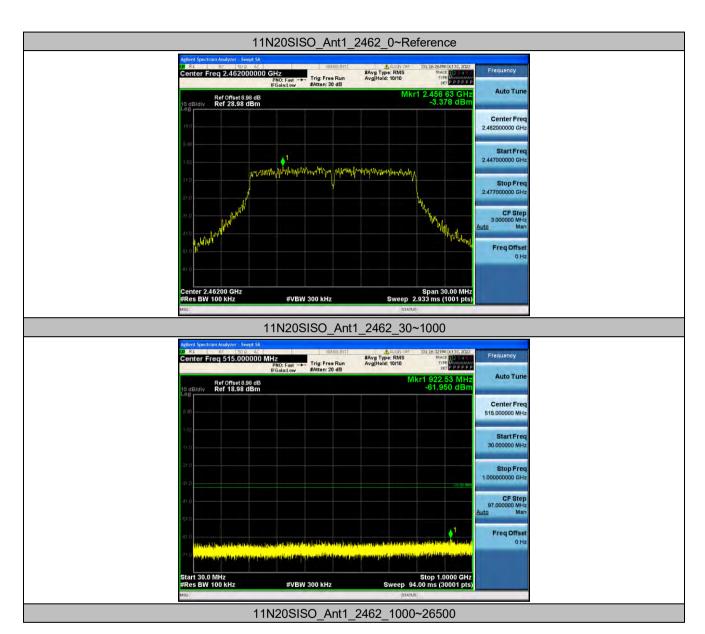
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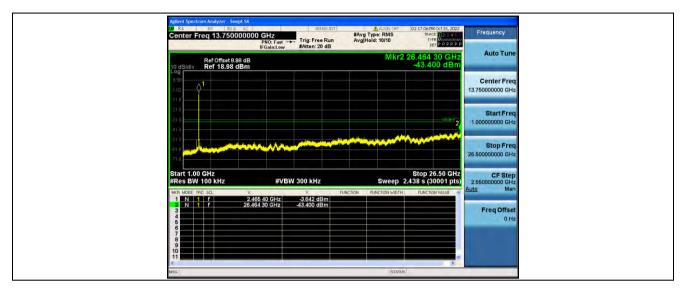
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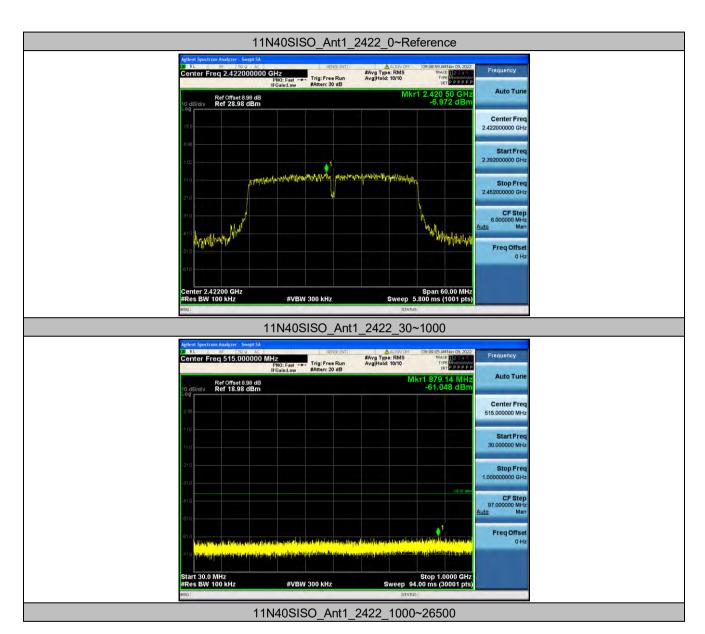
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11N40SISO_Ant1_2437_0~Reference



11N40SISO_Ant1_2437_30~1000



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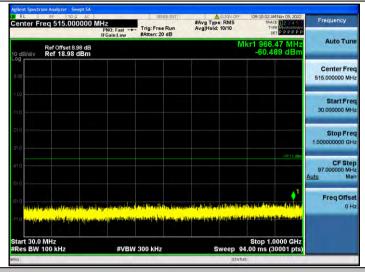
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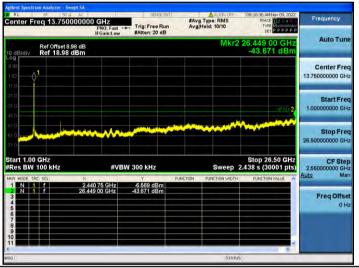


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11N40SISO_Ant1_2452_0~Reference



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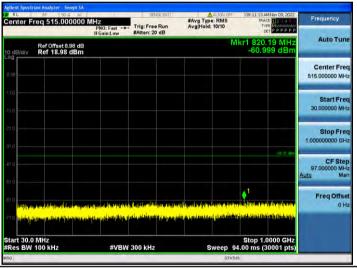


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11N40SISO_Ant1_2452_30~1000



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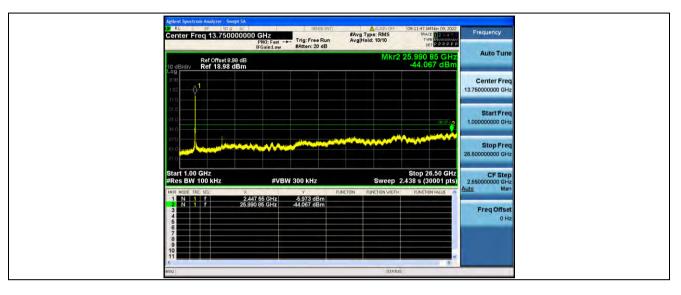
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10.7 Appendix G: Duty Cycle

10.7.1 Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict			
11B	Ant1	2412	30.00	30.00	100.00					
		2437	30.00	30.00	100.00					
		2462	30.00	30.00	100.00					
11G	Ant1	2412	30.00	30.00	100.00					
		2437	30.00	30.00	100.00					
		2462	30.00	30.00	100.00					
11N20SISO	Ant1	2412	30.00	30.00	100.00					
		2437	30.00	30.00	100.00					
		2462	30.00	30.00	100.00					
11N40SISO	Ant1	2422	19.00	19.00	100.00					
		2437	19.00	19.00	100.00					
		2452	19.00	19.00	100.00					



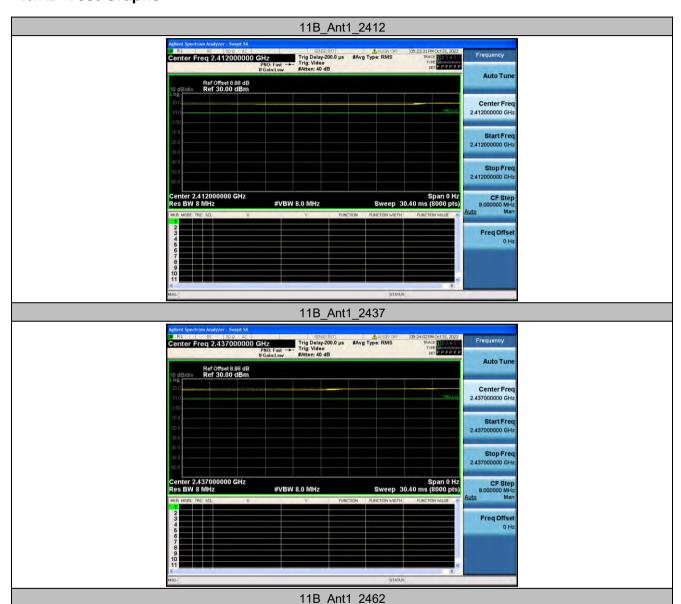
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10.7.2 Test Graphs





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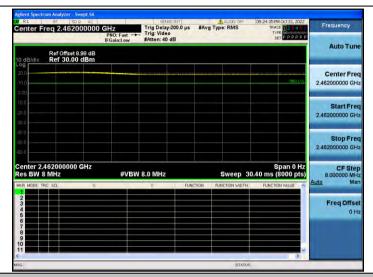
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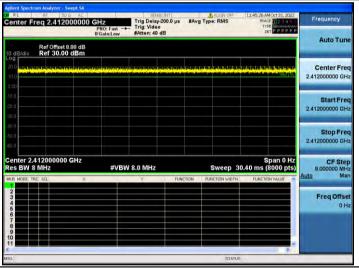


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11G_Ant1_2412



11G Ant1 2437



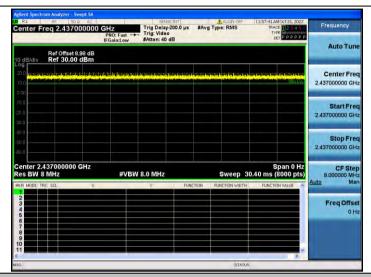
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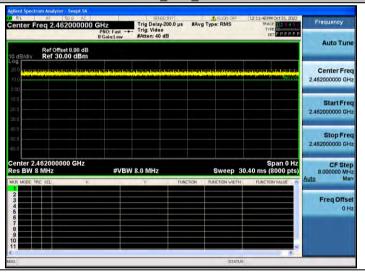


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11G_Ant1_2462





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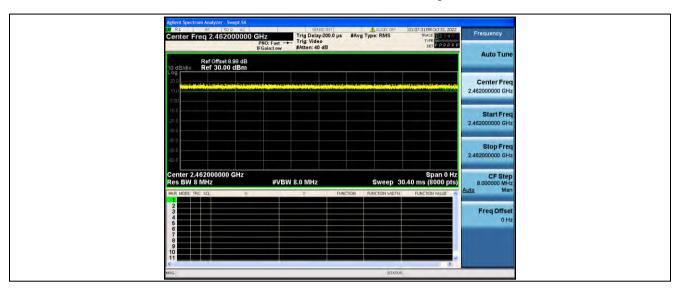
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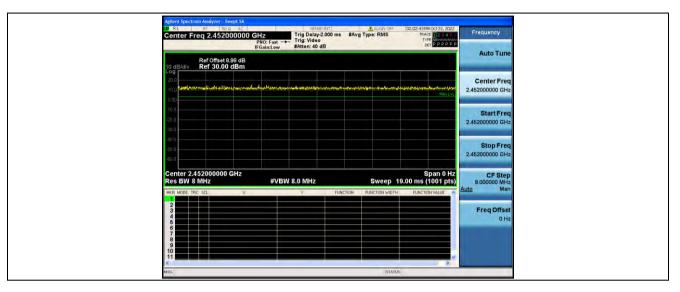
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