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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 Report No.: SZEM170700745501

Fax: +86 (0) 755 2671 0594 Page: 1 of 109
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TEST REPORT

Application No.: SZEM1707007455CR

**Applicant:** DigiLife Technologies Co., Ltd.

Address of Applicant: 5F, No. 18, WenHu St., Neihu Dist. Taipei, Taiwan 114.

Manufacturer: DigiLife Technologies Co., Ltd

Address of Manufacturer: 5F, No. 18, WenHu St., Neihu Dist. Taipei, Taiwan 114.

Factory: SHENZHEN APICAL TECHNOLOGY CO., LTD

Address of Factory: 9/F. B Building, Tsinghua Unis Infoport, LangShan Road, North District, Hi-tech

Industrial Park, Nanshan, Shenzhen

**Equipment Under Test (EUT):** 

EUT Name: Digital Video Recorder, Car Recorder, Car Camcorder, Drive Recorder, Driving

Recorder

Model No.: Please refer to section 2 ♣

Please refer to section 2 of this report which indicates which model was actually

tested and which were electrically identical.

Trade mark: HP, ROLLEI 2ACFIAP6181WM

**Standards:** 47 CFR Part 15, Subpart C 15.247

**Date of Receipt:** 2017-07-18

**Date of Test:** 2017-08-01 to 2017-08-29

**Date of Issue:** 2018-01-26

Test Result : Pass\*



Keny Xu EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record						
Version	Chapter	Date	Modifier	Remark			
01		2018-01-26		Original			

Authorized for issue by:		
	Jacky Li	
	Jacky Li /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



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## 2 Test Summary

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

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
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		
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.9.1.2	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass		
Power Spectrum Density	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass		
Conducted Band Edges Measurement	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 11.13.3.2	47 CFR Part 15, Subpart C 15.247(d)	Pass		
Conducted Spurious Emissions	47 CFR Part 15, Subpart C 15.247	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	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass		
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4, 6.5, 6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass		



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#### Remark:

Model No.: SP20LG-A, SP20LW-A, f860x, SP20LW-B, SP20LG-B, f870x, SP20LW-C, f850x

Only the model SP20LW-A was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on with/without GPS module, with/without rear camera, and appearance.

The details as below:

Detailer	Brand Name	Model No.	Differ	ence	
Exterior	Diana Ivanic	Model No.	GPS	Rear Camera	
	Difilife	SP20LW-A	With GPS & WIFI	with	
	Diffile	SP20LG-A	With GPS & WIFI	option	
	hp, HP Inc.	f860x	With GPS & WIFI	with	
	np, nr me.	f860x	With GPS & WIFI	option	
	Diffilite	SP20LW-B	With GPS & WIFI	with	Digital Video Recorder
		SP20LG-B	With GPS & WIFI	option	Car Recorder,
	hp, HP Inc.	f870x	With GPS & WIFI	with	Car Camcorder, Drive Recorder,
		f870x	With GPS & WIFI	option	Driving Recorder
PHICAM	Diffus	SP20LW-C	With GPS & WIFI	with	
Gibes yest	Difilife	SP20LW-C	With GPS & WIFI	option	
	h- IIDI	f850x	With GPS & WIFI	with	
	hp, HP Inc.	f850x	With GPS & WIFI	option	



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### 4 General Information

### 4.1 Details of E.U.T.

Operating Frequency: IEEE 802.11b/g/n(HT20): 2412 MHz to 2462 MHz

Type of Modulation: 802.11b: DSSS(CCK/QPSK/BPSK)

802.11g: OFDM(BPSK/QPSK/16QAM/64QAM)

802.11n (HT20): OFDM (64QAM, 16QAM, QPSK, BPSK)

Transmit Data Rate: 802.11b: 1M/2M/5.5M/11M bps

802.11g: 6M/9M/12M/18M/24M/36M/48M/54M bps

802.11n: 6.5M/13M/19.5M/26M/39M/52M/58.5M/64M bps

Number of Channels: 802.11b/g/n (HT20): 11 Channels

Channel Separation: 5 MHz

Antenna Type: PIFA Antenna

Antenna Gain: 1.0dBi

Power supply: Charging voltage: DC 5V

Car Charger:

Input: DC 12/24V, 1.4A; Output: DC 5.0V, 2.1A USB: 0.3m, shielded

### 4.2 Description of Support Units

Cable:

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10 <sup>-8</sup>
2	Duty cycle	0.37%
3	Occupied Bandwidth	3%
4	RF conducted power	0.75dB
5	RF power density	2.84dB
6	Conducted Spurious emissions	0.75dB
7	DE Dodicted power	4.5dB (below 1GHz)
/	7 RF Radiated power	4.8dB (above 1GHz)
8	Dadiated Caurious emission test	4.5dB (30MHz-1GHz)
0	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
9	Temperature test	1℃
10	Humidity test	3%
11	Supply voltages	1.5%
12	Time	3%



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### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 4.5 Test Facility

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

### • CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

### 4.6 Deviation from Standards

None

### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Minimum 6dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12

Conducted Peak Output Power						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09	
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12	

Power Spectrum Density						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09	
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09	
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A	
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13	
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09	
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12	



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Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12

Conducted Spurious Emissions											
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date						
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2016-10-09	2017-10-09						
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2016-10-09	2017-10-09						
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A						
Signal Generator	Rohde & Schwarz	SML03	SEM006-02	2017-04-14	2018-04-13						
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2016-10-09	2017-10-09						
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12						



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Radiated Emissions wh	ich fall in the restric	ted bands			
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna(15GHz- 40GHz)	Schwarzbeck	BBHA 9170 SEM003-14		2017-06-16	2020-06-15
Pre-amplifier (0.1- 1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12
Pre-amplifier(0.1- 26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502 SEM003-08		2015-08-14	2018-08-14
Band filter	N/A	N/A	SEM023-01	N/A	N/A



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Radiated Spurious Emis	ssions				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2017-05-02	2020-05-01
Measurement Software	AUDIX	e3 V8.2014- 6-27	N/A	N/A	N/A
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2017-04-14	2018-04-13
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-02	2017-03-05	2020-03-05
Horn Antenna (1-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2015-06-14	2018-06-14
Horn Antenna(15GHz- 40GHz)	Schwarzbeck	BBHA 9170 SEM003-14		2017-06-16	2020-06-15
Pre-amplifier (0.1- 1300MHz)	HP	8447D	SEM005-02	2016-10-09	2017-10-09
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA- 0118-352810	SEM005-05	2016-10-09	2017-10-09
Pre-amplifier(0.1- 26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-10	2016-10-17	2017-10-17
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2017-04-14	2018-04-13
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2016-10-09	2017-10-09
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2015-08-14	2018-08-14
Band filter N/A		N/A SEM023-01		N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2017-07-13	2018-07-12

General used equipment										
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2016-10-12	2017-10-12					
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2016-10-12	2017-10-12					
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2016-10-12	2017-10-12					
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2017-04-18	2018-04-18					



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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(c)

#### 6.1.2 Conclusion

#### Standard Requirment:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### 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 integrated on the main PCB and no consideration of replacement. The maximum gain of the antenna is 1.0dBi.



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### 7 Radio Spectrum Matter Test Results

### 7.1 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

### 7.1.1 E.U.T. Operation

**Operating Environment:** 

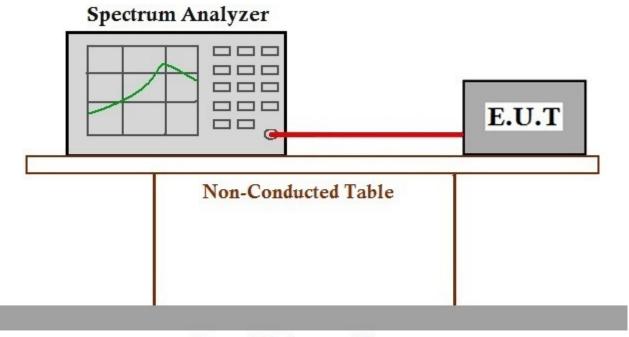
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode a: 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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

### 7.1.2 Test Setup Diagram



### Ground Reference Plane

#### 7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247

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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 11.9.1.2

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						



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### 7.2.1 E.U.T. Operation

Operating Environment:

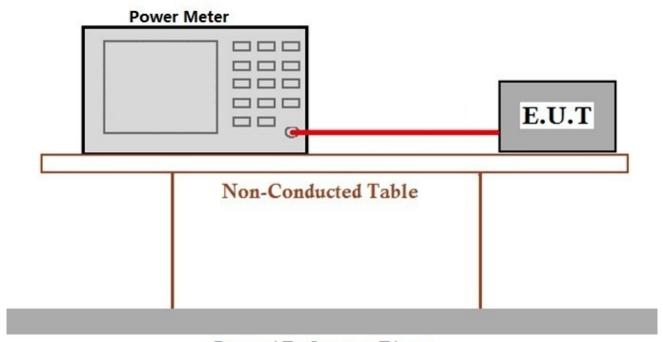
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode a: 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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

### 7.2.2 Test Setup Diagram



### Ground Reference Plane

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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### 7.3 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

### 7.3.1 E.U.T. Operation

Operating Environment:

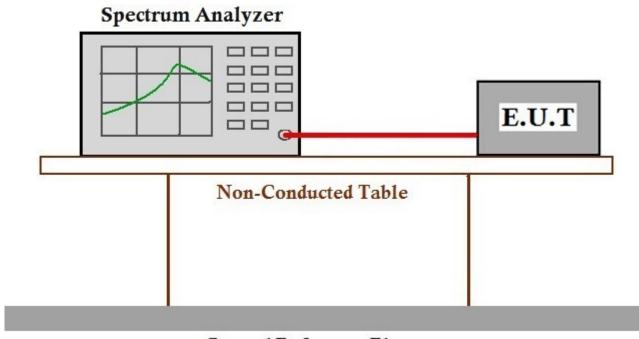
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode a: 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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

#### 7.3.2 Test Setup Diagram



### Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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### 7.4 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 100kHz 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)



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### 7.4.1 E.U.T. Operation

Operating Environment:

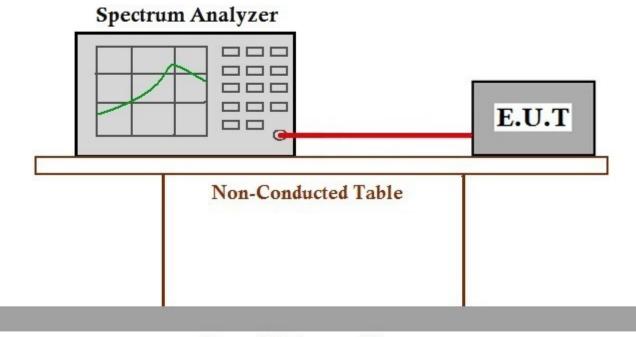
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode a: 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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

### 7.4.2 Test Setup Diagram



### Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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### 7.5 Conducted Spurious Emissions

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

§15.209(a) (see §15.205(c)

Limit:

In any 100kHz 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



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### 7.5.1 E.U.T. Operation

Operating Environment:

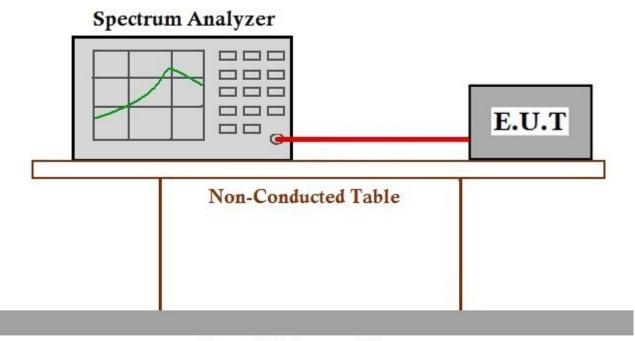
Temperature: 25 °C Humidity: 55 % RH Atmospheric Pressure: 1005 mbar

Test mode a: 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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

### 7.5.2 Test Setup Diagram



### Ground Reference Plane

#### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix 15.247



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### 7.6 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)

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

Measurement Distance: 3m

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.



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### 7.6.1 E.U.T. Operation

Operating Environment:

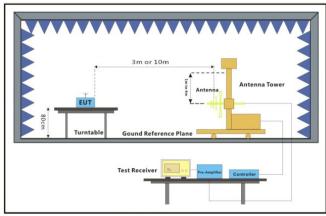
Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

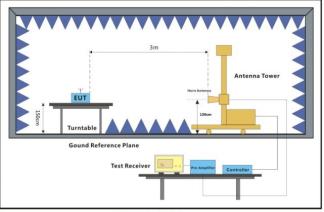
Test mode a: TX mode Keep the EUT in continuously transmitting mode with all modulation

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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

### 7.6.2 Test Setup Diagram





30MHz-1GHz Above 1GHz



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#### 7.6.3 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.

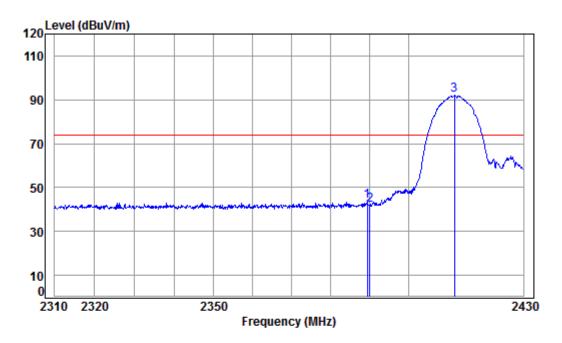
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 Band edge

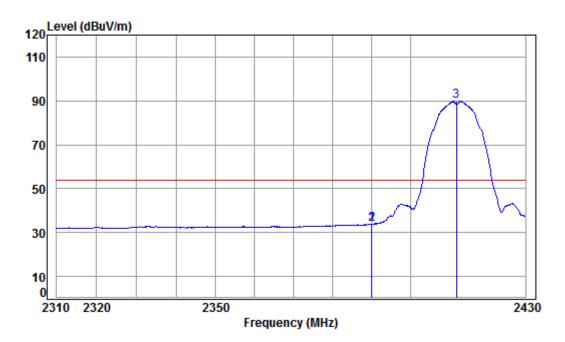
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.363	5.34	29.08	37.96	47.48	43.94	74.00	-30.06	peak
		2390.000								
3	pp	2412.000	5.35	29.14	37.95	95.49	92.03	74.00	18.03	peak



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Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 Band edge

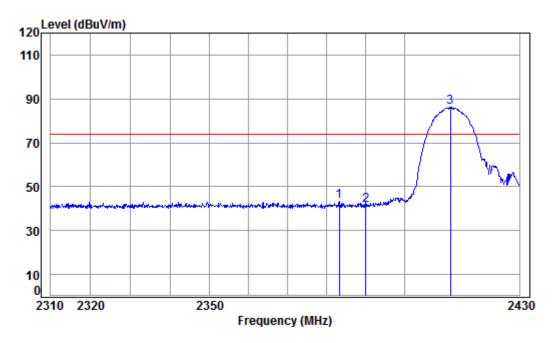
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	5.34	29.08	37.96	37.39	33.85	54.00	-20.15	Average
2		2390.000	5.34	29.08	37.96	37.39	33.85	54.00	-20.15	Average
3	pp	2412.000	5.35	29.14	37.95	93.23	89.77	54.00	35.77	Average



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Mode:a; Polarization: Vertical; Modulation Type:802.11b; bandwidth: 20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2412 Band edge

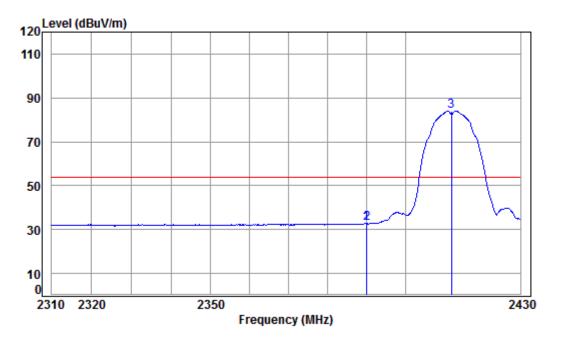
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2383.200	5.33	29.06	37.96	46.70	43.13	74.00	-30.87	Peak
2		2390.000	5.34	29.08	37.96	45.21	41.67	74.00	-32.33	Peak
3	pp	2412.000	5.35	29.14	37.95	89.79	86.33	74.00	12.33	Peak



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Mode:a; Polarization: Vertical; Modulation Type:802.11b; bandwidth: 20MHz; Channel:Low



Condition: 3m VERTICAL Job No : 07455CR

Mode : 2412 Band edge

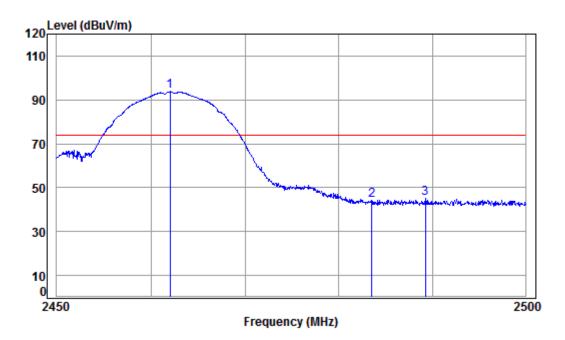
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.847	5.34	29.08	37.96	36.44	32.90	54.00	-21.10	Average
2		2390.000	5.34	29.08	37.96	36.26	32.72	54.00	-21.28	Average
3	pp	2412.000	5.35	29.14	37.95	87.54	84.08	54.00	30.08	Average



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Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 Band edge

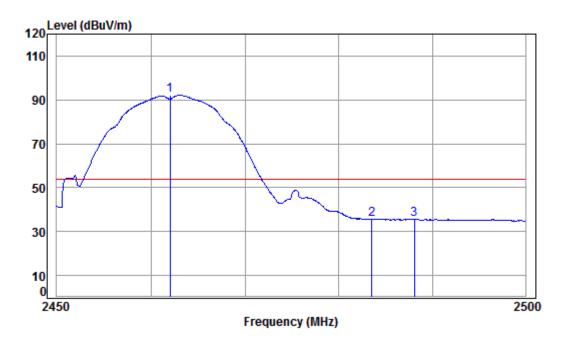
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.39	29.29	37.95	97.05	93.78	74.00	19.78	peak
2 2483.500								
3 2489.265								•



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Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 Band edge

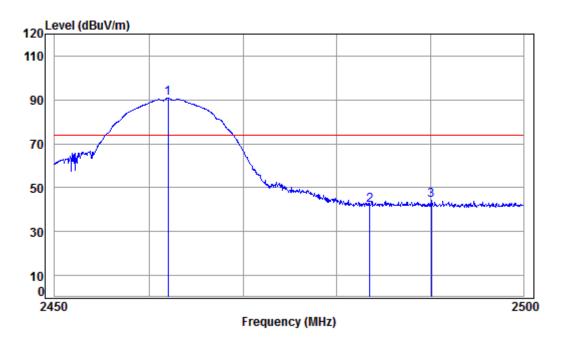
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.39	29.29	37.95	95.42	92.15	54.00	38.15	Average
2	2483.500	5.41	29.35	37.95	38.81	35.62	54.00	-18.38	Average
3	2488.059	5.41	29.37	37.95	38.82	35.65	54.00	-18.35	Average



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Mode:a; Polarization: Vertical; Modulation Type:802.11b; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL Job No : 07455CR

Mode : 2462 Band edge

: 2.4G WIFI 11B

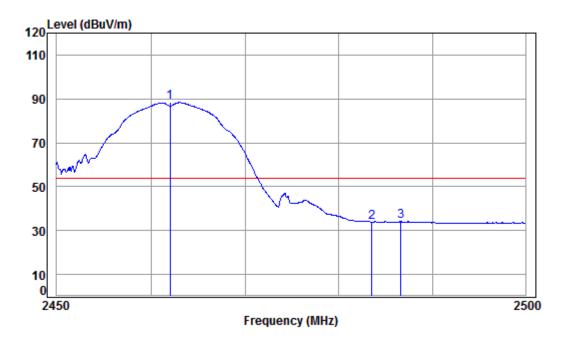
Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dΒ dB/m dB 5.39 29.29 1 pp 2462.000 37.95 93.98 90.71 74.00 16.71 Peak 45.14 2483.500 5.41 29.35 37.95 41.95 74.00 -32.05 Peak 3 2490.120 5.41 29.37 37.95 47.46 44.29 74.00 -29.71 Peak



Report No.: SZEM170700745501

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Mode:a; Polarization:Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2462 Band edge

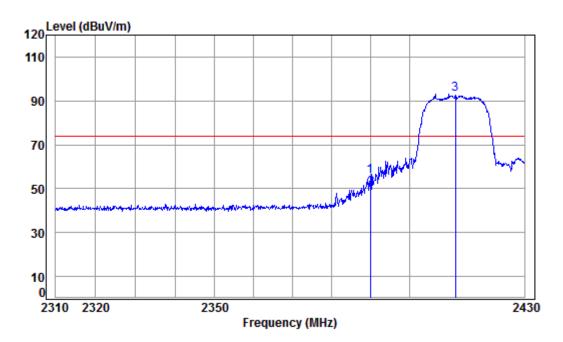
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
_									
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.39	29.29	37.95	91.60	88.33	54.00	34.33	Average
	2483.500								
	2486.601								_



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 Band edge

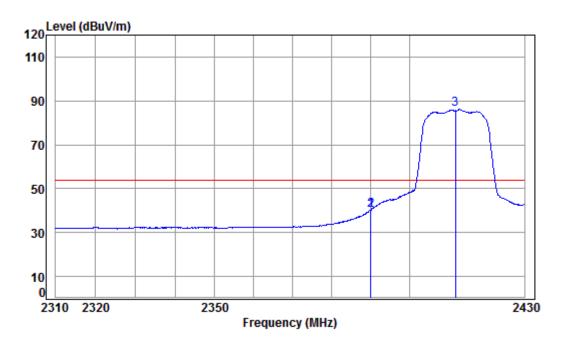
		Enoa			Preamp Factor					Pomonic
		rreq	LU55	ractor	rac con	rever	rever	LINE	LIMIT	I/elliar K
	_	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			42	u2/	45	ubu.	ubu*/	ubu*/	40	
1		2389.847	5.34	29.08	37.96	59.39	55.85	74.00	-18.15	peak
		2390.000								•
-		2330.000	3.54	27.00	37.30	33.33	30.01	74.00	23.33	peak
3	pp	2412.000	5.35	29.14	37.95	96.42	92.96	74.00	18.96	peak



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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 Band edge

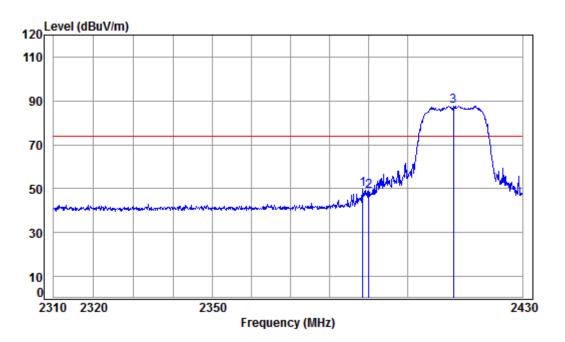
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.34	29.08	37.96	43.85	40.31	54.00	-13.69	Average
2	2390.000	5.34	29.08	37.96	43.85	40.31	54.00	-13.69	Average
3 p	op 2412.000	5.35	29.14	37.95	89.55	86.09	54.00	32.09	Average



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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL Job No : 07455CR

Mode : 2412 Band edge

: 2.4G WIFI 11G

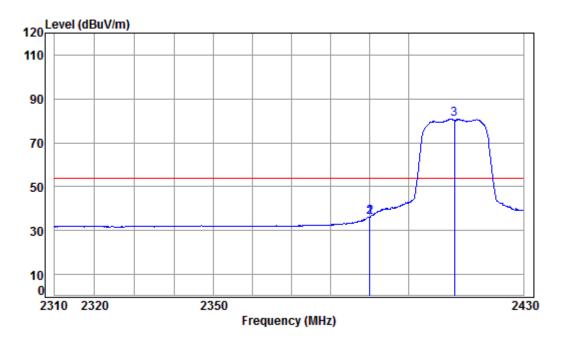
Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB/m dΒ dB dΒ 1 2388.516 5.34 29.07 37.96 53.21 49.66 74.00 -24.34 Peak 74.00 -25.37 Peak 2 2390.000 5.34 29.08 37.96 52.17 48.63 3 pp 2412.000 5.35 29.14 37.95 91.29 87.83 74.00 13.83 Peak



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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL Job No : 07455CR

Mode : 2412 Band edge

: 2.4G WIFI 11G

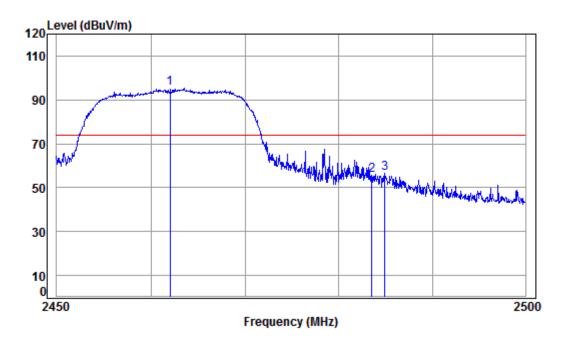
Ant Preamp Cable Read Limit 0ver Freq Loss Factor Factor Level Level Line Limit Remark dBuV dBuV/m dBuV/m MHz dB dB/m dΒ dB 1 2389.968 5.34 29.08 37.96 39.67 36.13 54.00 -17.87 Average 36.13 54.00 -17.87 Average 2 2390.000 5.34 29.08 37.96 39.67 3 pp 2412.000 5.35 29.14 37.95 84.32 80.86 54.00 26.86 Average



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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 Band edge

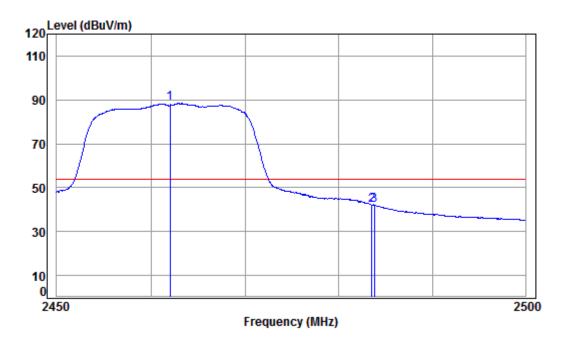
	Cable	Ant	Preamp	Read		Limit	0ver	
Free	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MH:	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.39	29.29	37.95	98.45	95.18	74.00	21.18	peak
2 2483.500								
3 2484.894								•



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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 Band edge

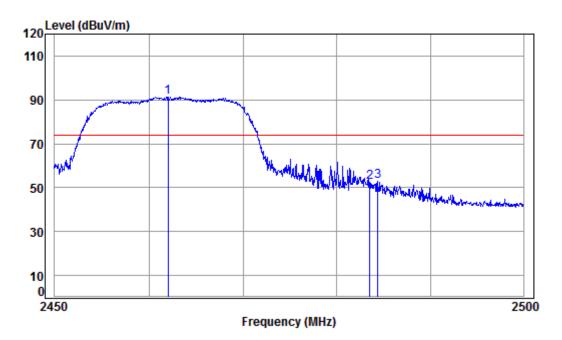
		<b>-</b>			Preamp					
		Freq	LOSS	Factor	Factor	rever	rever	Line	Limit	Kemark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2462.000	5.39	29.29	37.95	91.62	88.35	54.00	34.35	Average
2		2483.500	5.41	29.35	37.95	45.24	42.05	54.00	-11.95	Average
		2483.790								_



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL Job No : 07455CR

Mode : 2462 Band edge

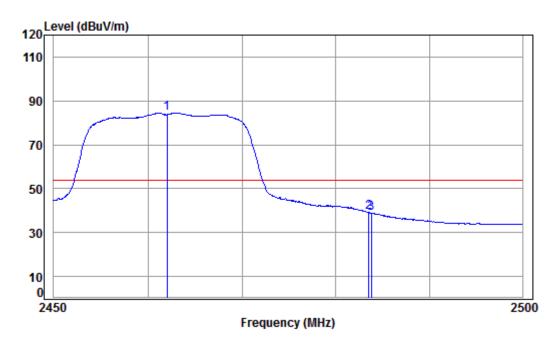
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	pp	2462.000	5.39	29.29	37.95	94.66	91.39	74.00	17.39	Peak
2		2483.500	5.41	29.35	37.95	55.73	52.54	74.00	-21.46	Peak
3		2484.392	5.41	29.36	37.95	56.27	53.09	74.00	-20.91	Peak



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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL Job No : 07455CR

Mode : 2462 Band edge

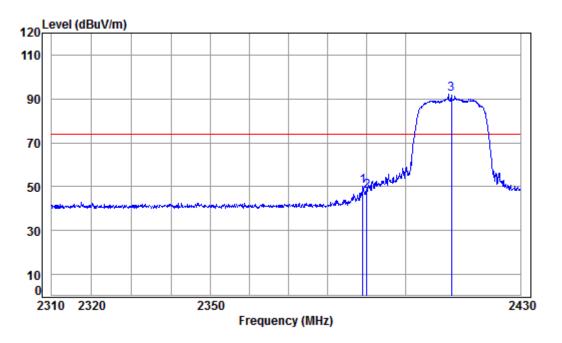
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.39	29.29	37.95	87.78	84.51	54.00	30.51	Average
	2483.500								
3	2483.790	5.41	29.35	37.95	42.03	38.84	54.00	-15.16	Average



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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 Band edge

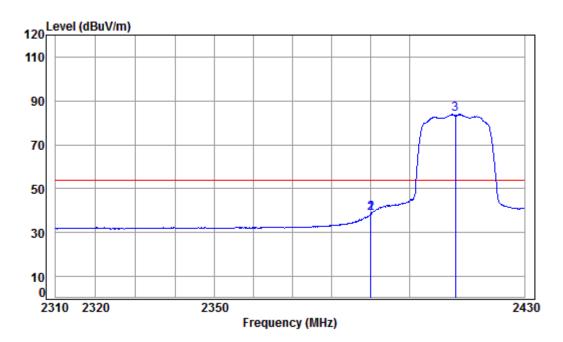
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
-								
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2389 000	5 34	29.07	37.96	53.74	50.19	74 00	-23.81	neak
2303.000	3.34	23.07	37.30	33.74	50.15	74.00	23.01	peak
2390.000	5.34	29.08	37.96	51.61	48.07	74.00	-25.93	peak
2412.000	5.35	29.14	37.95	95.47	92.01	74.00	18.01	peak
	MHz 2389.000 2390.000	Freq Loss  MHz dB  2389.000 5.34 2390.000 5.34	Freq Loss Factor  MHz dB dB/m  2389.000 5.34 29.07 2390.000 5.34 29.08	Freq         Loss Factor         Factor           MHz         dB         dB/m         dB           2389.000         5.34         29.07         37.96           2390.000         5.34         29.08         37.96	Freq         Loss Factor Factor         Level           MHz         dB         dB/m         dB         dBuV           2389.000         5.34         29.07         37.96         53.74           2390.000         5.34         29.08         37.96         51.61	Freq         Loss Factor Factor         Level         Level           MHz         dB         dB/m         dB         dBuV         dBuV/m           2389.000         5.34         29.07         37.96         53.74         50.19           2390.000         5.34         29.08         37.96         51.61         48.07	Freq         Loss Factor Factor         Level Level         Level Line           MHz         dB         dB/m         dB uV         dBuV/m         dBuV/m         dBuV/m           2389.000         5.34         29.07         37.96         53.74         50.19         74.00           2390.000         5.34         29.08         37.96         51.61         48.07         74.00	Cable Ant Preamp Read Limit Over Loss Factor Factor Level Level Line Limit  MHz dB dB/m dB dBuV dBuV/m dBuV/m dB  2389.000 5.34 29.07 37.96 53.74 50.19 74.00 -23.81 2390.000 5.34 29.08 37.96 51.61 48.07 74.00 -25.93 2412.000 5.35 29.14 37.95 95.47 92.01 74.00 18.01



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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 Band edge

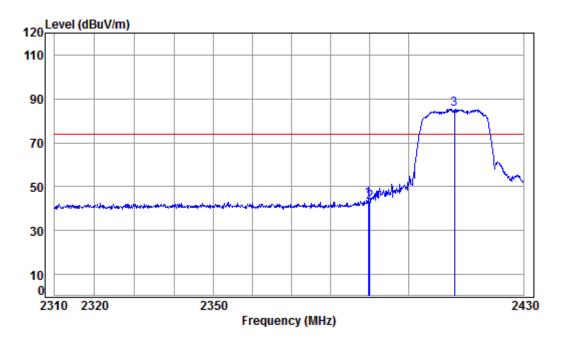
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			•			•	•		
1	2389.968	5.34	29.08	37.96	42.10	38.56	54.00	-15.44	Average
2	2390.000								_
	2412.000								_



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2412 Band edge

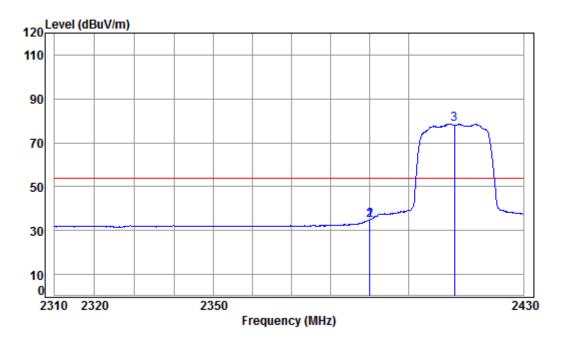
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
			•			•	•		
1	2389.605	5.34	29.08	37.96	48.02	44.48	74.00	-29.52	Peak
2	2390.000								
_									
3	pp 2412.000	5.35	29.14	3/.95	89.00	85.54	/4.00	11.54	reak



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel:Low



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2412 Band edge

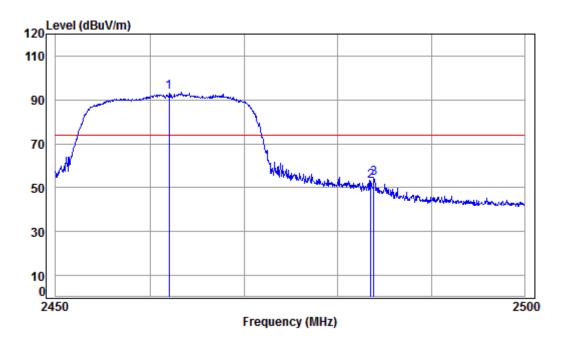
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		2389.968	5.34	29.08	37.96	38.32	34.78	54.00	-19.22	Average
2		2390.000	5.34	29.08	37.96	38.32	34.78	54.00	-19.22	Average
3	pp	2412.000	5.35	29.14	37.95	82.11	78.65	54.00	24.65	Average



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 Band edge

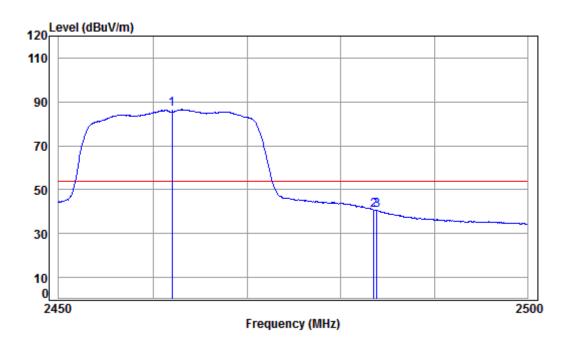
	Cable	Ant	Preamp	Read		Limit	0ver	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2462.000	5.39	29.29	37.95	96.69	93.42	74.00	19.42	peak
2 2483.500								
3 2483.840								•



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 Band edge

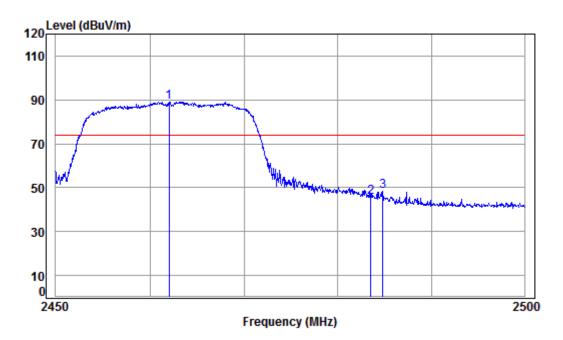
		<b>-</b>			Preamp						
		Freq	Loss	Factor	Factor	revel	revel	Line	Limit	Kemark	
	-										_
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	l pp	2462.000	5.39	29.29	37.95	89.76	86.49	54.00	32.49	Average	
2	2	2483.500	5.41	29.35	37.95	43.88	40.69	54.00	-13.31	Average	
3	3	2483.840	5.41	29.35	37.95	43.76	40.57	54.00	-13.43	Average	



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2462 Band edge

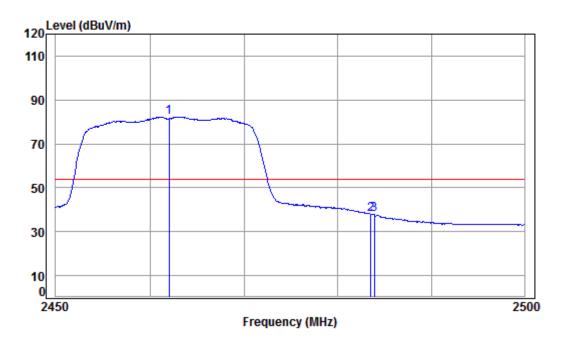
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.39	29.29	37.95	92.46	89.19	74.00	15.19	Peak
	2483.500								
	2484.793								
_									



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL Job No : 07455CR

: 2462 Band edge Mode

: 2.4G WIFI 11N20

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Level Line Limit Remark Freq Level dBuV dBuV/m dBuV/m MHz dΒ dB dΒ dB/m 1 pp 2462.000 5.39 29.29 37.95 85.60 82.33 54.00 28.33 Average 2483.500 5.41 29.35 37.95 40.88 37.69 54.00 -16.31 Average 2483.890 5.41 29.35 37.95 40.95 37.76 54.00 -16.24 Average

### Remark:

2

3

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

2) 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. So, only the peak measurements were shown in the report.



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### 7.7 Radiated Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.247(d)
Test Method: ANSI C63.10 (2013) Section 6.4, 6.5, 6.6

Measurement Distance: 3m

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.



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### 7.7.1 E.U.T. Operation

Operating Environment:

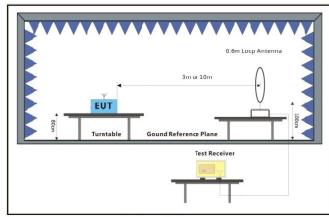
Temperature: 23 °C Humidity: 54 % RH Atmospheric Pressure: 1005 mbar

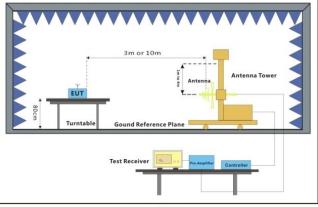
Test mode a: TX mode Keep the EUT in continuously transmitting mode with all modulation

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 IE EE 802.11n(HT20). Only the data of worst case is recorded in the report.

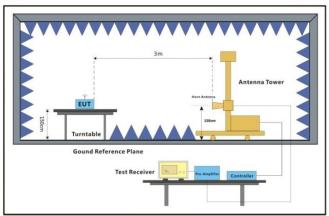
### 7.7.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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#### 7.7.3 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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### Radiated emission below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$ 

Note:

 $L_3$ : Level @ 3m distance. Unit: uV/m;  $L_{10}$ : Level @ 10m distance. Unit: uV/m;

D<sub>3</sub>: 3m distance. Unit: m D<sub>10</sub>: 10m distance. Unit: m

The level at 3m test distance is below:

### Mode g:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
44.74	23.98	15.81	52.71	34.44	40.00	-5.56	Vertical
157.01	24.57	16.92	56.41	35.03	43.50	-8.47	٧
229.29	25.68	19.23	64.10	36.14	46.00	-9.86	V
297.22	29.96	31.48	104.92	40.42	46.00	-5.58	V
446.41	27.49	23.69	78.95	37.95	46.00	-8.05	V
744.87	30.49	33.46	111.53	40.95	46.00	-5.05	V
162.61	21.90	12.45	41.48	32.36	43.50	-11.14	Horizontal
297.22	32.19	40.69	135.64	42.65	46.00	-3.35	Н
595.13	32.56	42.46	141.54	43.02	46.00	-2.98	Н
651.94	30.50	33.50	111.66	40.96	46.00	-5.04	Н
744.87	33.47	47.15	157.17	43.93	46.00	-2.07	Н
872.18	33.57	47.70	158.99	44.03	46.00	-1.97	Н

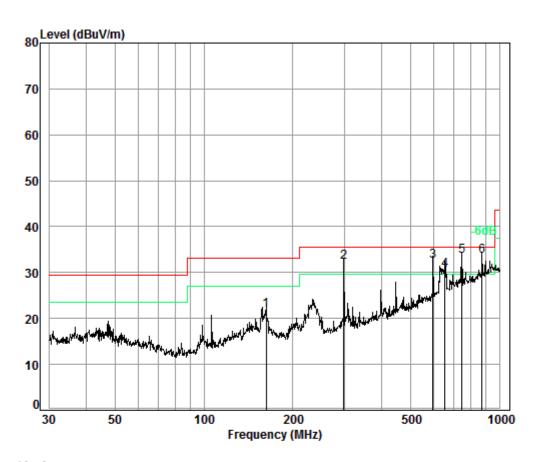


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#### **Radiated Emission above 1GHz**

Polarization: Horizontal, Keep the wireless function working



Condition: 10m HORIZONTAL

Job No. : 07455CR

Test Mode: a

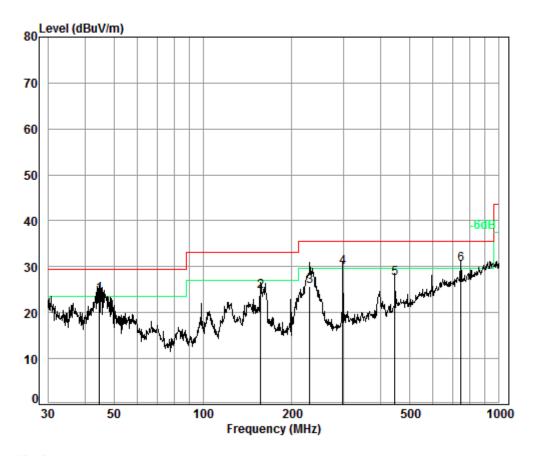
				Preamp				
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	——dB		dB	-dBuV	dBul//m	dBul//m	——dB
	PINZ	ub	ub/III	ub	ubuv	ubuv/III	ubuv/III	ub
1	162.61	7.44	13.13	32.44	33.77	21.90	33.10	-11.20
2	297.22	8.06	12.59	32.38	43.92	32.19	35.60	-3.41
3	595.13	9.01	18.61	32.28	37.22	32.56	35.60	-3.04
4	651.94	9.32	19.56	32.27	33.89	30.50	35.60	-5.10
5	744.87	9.66	20.71	32.26	35.36	33.47	35.60	-2.13
6 рр	872.18	10.00	21.86	31.63	33.34	33.57	35.60	-2.03



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Polarization: Vertical, Keep the wireless function working



Condition: 10m VERTICAL

Job No. : 07455CR

Test Mode: a

		Cable	Ant	Preamp	Read		Limit	0ver
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
-								
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
4	44.74	c co	42.02	22.44	36.00	22.00	20 50	F F2
1	44.74	6.60	12.92	32.44	36.90	23.98	29.50	-5.52
2	157.01	7.46	13.40	32.43	36.14	24.57	33.10	-8.53
3 qp	229.29	7.57	10.74	32.43	39.80	25.68	35.60	-9.92
4	297.22	8.06	12.59	32.38	41.69	29.96	35.60	-5.64
5	446.41	8.60	16.09	32.31	35.11	27.49	35.60	-8.11
6 pp	744.87	9.66	20.71	32.26	32.38	30.49	35.60	-5.11

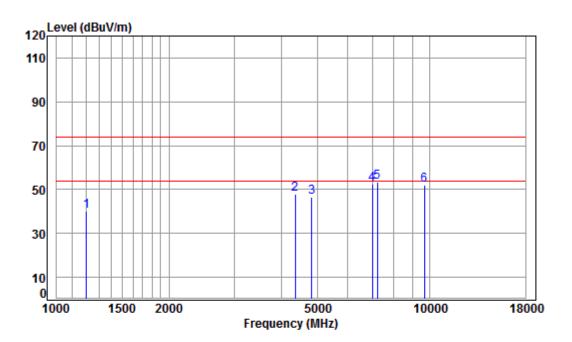


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#### Transmitter emission above 1GHz

Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 TX RSE

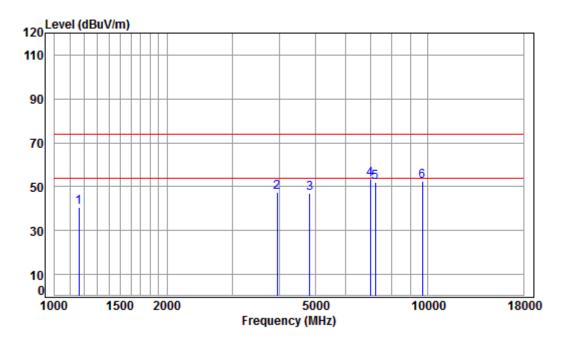
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1203.199	4.08	24.49	38.07	49.54	40.04	74.00	-33.96	peak
2	4354.454	7.12	33.60	38.19	45.33	47.86	74.00	-26.14	peak
3	4824.000	7.76	34.19	38.42	43.11	46.64	74.00	-27.36	peak
4	6995.172	9.51	36.49	37.30	43.87	52.57	74.00	-21.43	peak
5 p	p 7236.000	9.67	36.40	37.08	44.24	53.23	74.00	-20.77	peak
6	9648.000	11.10	37.53	35.07	38.60	52.16	74.00	-21.84	peak



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Mode:a; Polarization: Vertical; Modulation Type:802.11b; bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2412 TX RSE

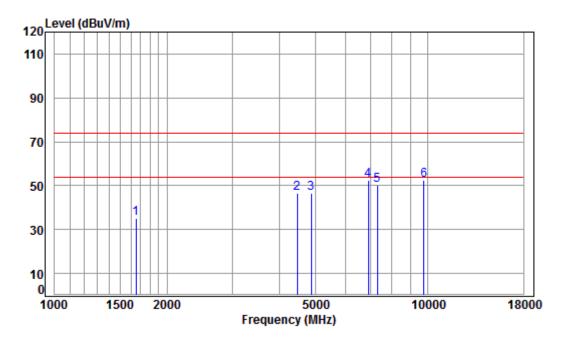
		: 2.4	g MTFT	TIB						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1162.182	4.02	24.29	38.08	50.20	40.43	74.00	-33.57	peak
2		3946.885	6.66	33.46	38.00	45.13	47.25	74.00	-26.75	peak
3		4824.000	7.76	34.19	38.42	43.50	47.03	74.00	-26.97	peak
4	pp	6995.172	9.51	36.49	37.30	44.60	53.30	74.00	-20.70	peak
5		7236.000	9.67	36.40	37.08	43.10	52.09	74.00	-21.91	peak
6		9648,000	11.10	37.53	35.07	38.89	52.45	74.00	-21.55	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2437 TX RSE

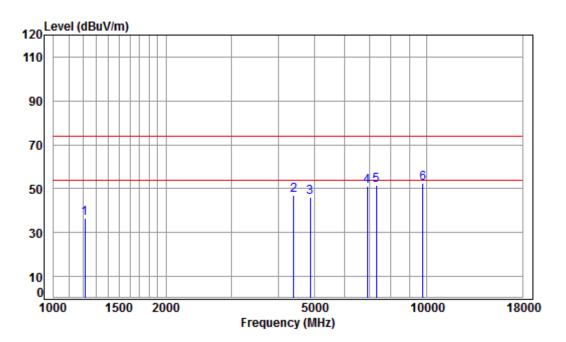
	: 2.4	G MILI	TID						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.550	4.65	26.48	38.03	41.99	35.09	74.00	-38.91	peak
2	4469.214	7.25	33.60	38.25	44.08	46.68	74.00	-27.32	peak
3	4874.000	7.83	34.28	38.44	43.08	46.75	74.00	-27.25	peak
4 p	p 6914.763	9.44	36.27	37.38	44.31	52.64	74.00	-21.36	peak
5	7311.000	9.72	36.37	37.01	41.12	50.20	74.00	-23.80	peak
6	9748 000	11 20	37 55	35 02	38 85	52 58	74 99	-21 42	neak



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Mode:a; Polarization: Vertical; Modulation Type:802.11b; bandwidth:20MHz; Channel:middle



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2437 TX RSE

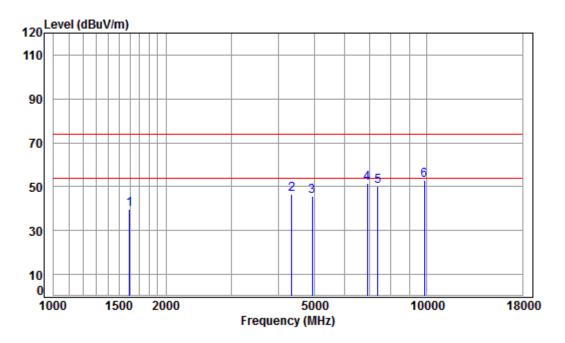
		: 2.4	g MTFT	TIB						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-	MHz	dB		——dB	dBuV	dBuV/m	dBuV/m	dB	
				,			,	,		
1		1213.677	4.10	24.55	38.07	46.12	36.70	74.00	-37.30	peak
2		4392.376	7.16	33.60	38.21	44.28	46.83	74.00	-27.17	peak
3		4874.000	7.83	34.28	38.44	42.34	46.01	74.00	-27.99	peak
4		6914.763	9.44	36.27	37.38	42.99	51.32	74.00	-22.68	peak
5		7311.000	9.72	36.37	37.01	42.40	51.48	74.00	-22.52	peak
6	nn	9748,000	11.20	37.55	35.02	38.86	52.59	74.00	-21.41	neak



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Mode:a; Polarization:Horizontal; Modulation Type:802.11b; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 TX RSE

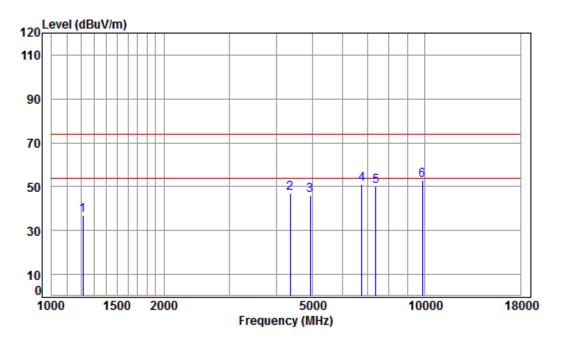
	. 2.4	G MILI	TID						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	4.59	26.24	38.03	46.80	39.60	74.00	-34.40	peak
2	4341.886	7.10	33.60	38.18	44.03	46.55	74.00	-27.45	peak
3	4924.000	7.90	34.37	38.47	42.01	45.81	74.00	-28.19	peak
4	6914.763	9.44	36.27	37.38	43.39	51.72	74.00	-22.28	peak
5	7386.000	9.77	36.34	36.94	40.93	50.10	74.00	-23.90	peak
6 nn	98/18 000	11 29	37 57	3/1 97	39 09	52 98	7/ 00	_21 02	nook



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Mode:a; Polarization: Vertical; Modulation Type:802.11b; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2462 TX RSE

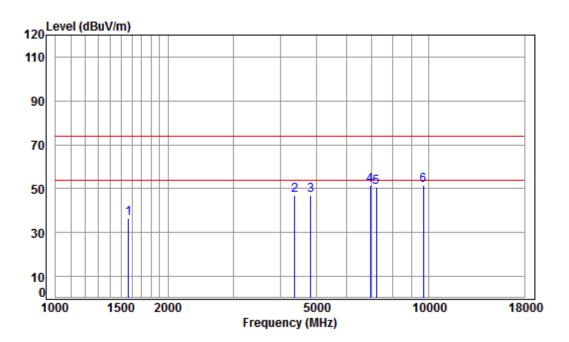
		: 2.4	G MTLT	TID						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1213.677	4.10	24.55	38.07	46.58	37.16	74.00	-36.84	peak
2		4354.454	7.12	33.60	38.19	44.37	46.90	74.00	-27.10	peak
3		4924.000	7.90	34.37	38.47	42.17	45.97	74.00	-28.03	peak
4		6776.265	9.31	35.89	37.51	43.34	51.03	74.00	-22.97	peak
5		7386.000	9.77	36.34	36.94	40.80	49.97	74.00	-24.03	peak
6	nn	9848 000	11 29	37 57	34 97	39 00	52 89	74 99	-21 11	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 TX RSE

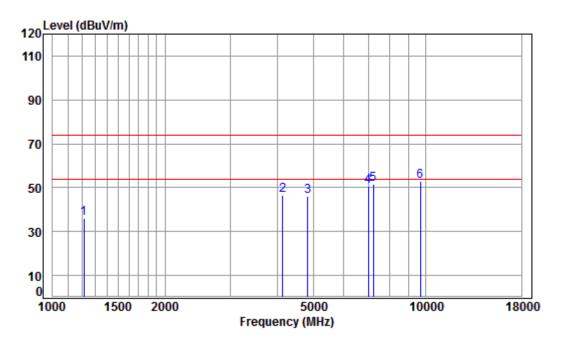
	: 2.4	G MILI	110						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	4.56	26.12	38.03	43.89	36.54	74.00	-37.46	peak
2	4367.058	7.13	33.60	38.20	44.37	46.90	74.00	-27.10	peak
3	4824.000	7.76	34.19	38.42	43.26	46.79	74.00	-27.21	peak
4 p	p 6954.852	9.47	36.38	37.34	43.23	51.74	74.00	-22.26	peak
5	7236.000	9.67	36.40	37.08	41.79	50.78	74.00	-23.22	peak
6	9648,000	11.10	37 53	35 07	38 13	51 69	74 99	-22 31	neak



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2412 TX RSE

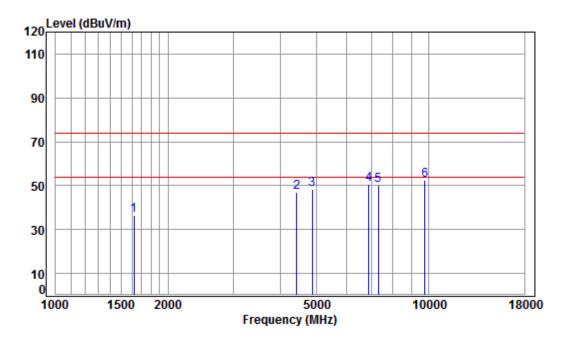
		: 2.4	G MILI	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1213.677	4.10	24.55	38.07	45.60	36.18	74.00	-37.82	peak
2		4133.699	6.86	33.60	38.07	44.26	46.65	74.00	-27.35	peak
3		4824.000	7.76	34.19	38.42	42.47	46.00	74.00	-28.00	peak
4		6995.172	9.51	36.49	37.30	41.79	50.49	74.00	-23.51	peak
5		7236.000	9.67	36.40	37.08	42.62	51.61	74.00	-22.39	peak
6	nn	9648 000	11 10	37 53	35 07	39 39	52 95	74 99	-21 05	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2437 TX RSE

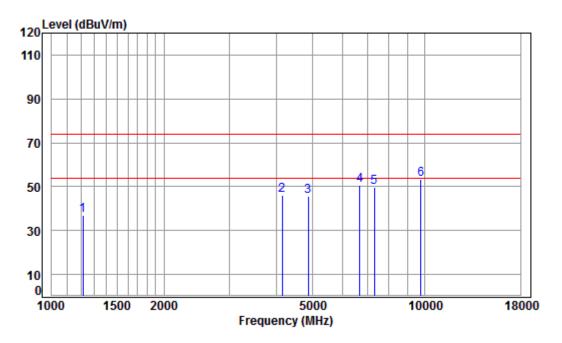
		: 2.4	G MILI	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1620.431	4.61	26.34	38.03	43.55	36.47	74.00	-37.53	peak
2		4417.841	7.19	33.60	38.22	44.44	47.01	74.00	-26.99	peak
3		4874.000	7.83	34.28	38.44	44.60	48.27	74.00	-25.73	peak
4		6894.806	9.42	36.21	37.40	42.58	50.81	74.00	-23.19	peak
5		7311.000	9.72	36.37	37.01	41.14	50.22	74.00	-23.78	peak
6	nn	9748 000	11 20	37 55	35 02	38 80	52 53	74 99	-21 47	neak



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: middle



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2437 TX RSE

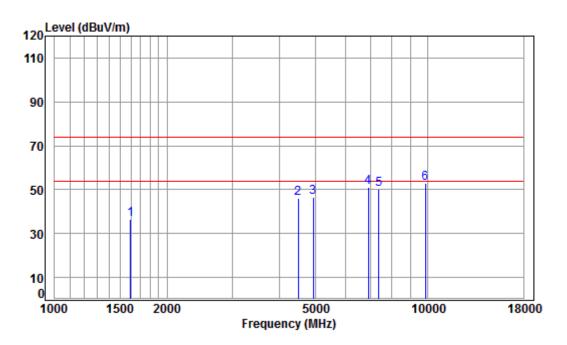
		: 2.4	g MTLT	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1213.677	4.10	24.55	38.07	46.20	36.78	74.00	-37.22	peak
2		4145.664	6.88	33.60	38.08	43.87	46.27	74.00	-27.73	peak
3		4874.000	7.83	34.28	38.44	42.04	45.71	74.00	-28.29	peak
4		6698.373	9.24	35.67	37.59	43.25	50.57	74.00	-23.43	peak
5		7311.000	9.72	36.37	37.01	40.87	49.95	74.00	-24.05	peak
6	nn	9748,000	11 20	37 55	35 02	39 65	53 38	74 99	-20 62	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11g; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 TX RSE

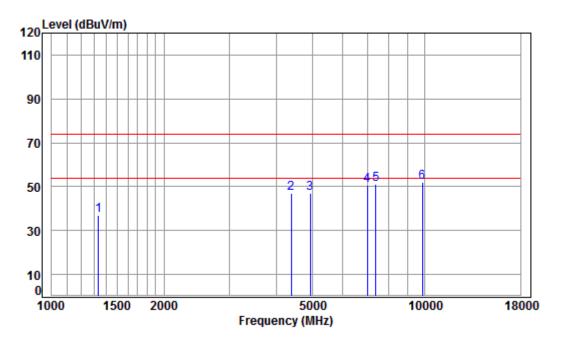
		: 2.4	G MILI	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	4.59	26.24	38.03	43.52	36.32	74.00	-37.68	peak
2		4495.125	7.27	33.60	38.26	43.68	46.29	74.00	-27.71	peak
3		4924.000	7.90	34.37	38.47	42.54	46.34	74.00	-27.66	peak
4		6914.763	9.44	36.27	37.38	42.86	51.19	74.00	-22.81	peak
5		7386.000	9.77	36.34	36.94	40.90	50.07	74.00	-23.93	peak
6	nn	9848 000	11 29	37 57	34 97	38 92	52 81	74 99	-21 19	neak



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11g; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2462 TX RSE

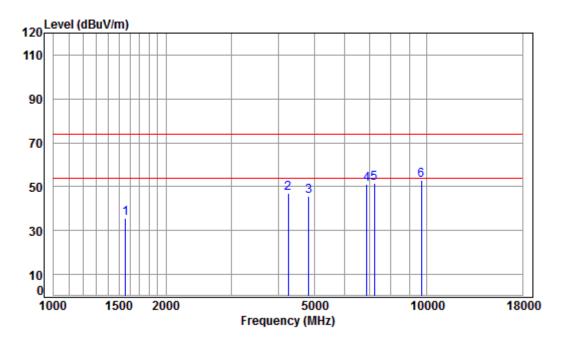
		: 2.4	G MTLT	110						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1335.141	4.27	25.11	38.06	45.49	36.81	74.00	-37.19	peak
2		4379.699	7.15	33.60	38.20	44.38	46.93	74.00	-27.07	peak
3		4924.000	7.90	34.37	38.47	43.21	47.01	74.00	-26.99	peak
4		6995.172	9.51	36.49	37.30	42.15	50.85	74.00	-23.15	peak
5		7386.000	9.77	36.34	36.94	41.75	50.92	74.00	-23.08	peak
6	nn	9848 000	11 29	37 57	34 97	38 27	52 16	74 99	-21 84	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:Low



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2412 TX RSE

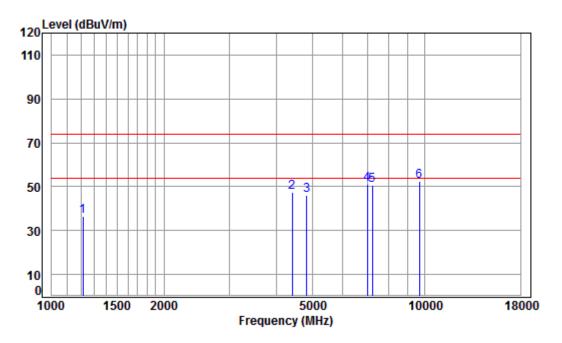
		: 2.4	G MILI	111/12/0						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1556.169	4.54	26.06	38.04	43.01	35.57	74.00	-38.43	peak
2		4254.921	7.00	33.60	38.14	44.32	46.78	74.00	-27.22	peak
3		4824.000	7.76	34.19	38.42	41.99	45.52	74.00	-28.48	peak
4		6894.806	9.42	36.21	37.40	42.97	51.20	74.00	-22.80	peak
5		7236.000	9.67	36.40	37.08	42.71	51.70	74.00	-22.30	peak
6	nn	9648,000	11.10	37 53	35 07	39 49	53 05	74 99	-20 95	neak



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel: Low



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2412 TX RSE

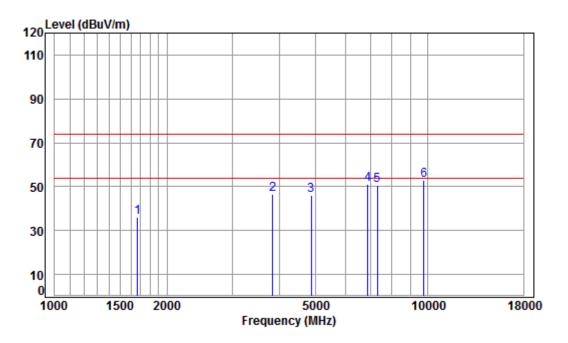
		: 2.4	G MTLT	111/12/0						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1213.677	4.10	24.55	38.07	46.05	36.63	74.00	-37.37	peak
2		4405.090	7.18	33.60	38.22	45.04	47.60	74.00	-26.40	peak
3		4824.000	7.76	34.19	38.42	42.65	46.18	74.00	-27.82	peak
4		6995.172	9.51	36.49	37.30	42.42	51.12	74.00	-22.88	peak
5		7236.000	9.67	36.40	37.08	41.81	50.80	74.00	-23.20	peak
6	nn	9648,000	11.10	37 53	35 07	38 72	52 28	74 99	-21 72	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:middle



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2437 TX RSE

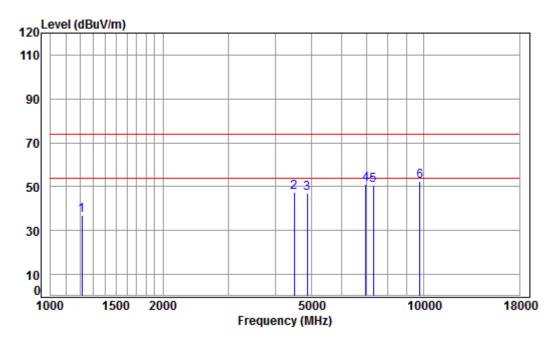
				111120						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	-						<del></del>			
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
4		1667 051	4 67	26 54	20.02	42.07	26 45	74.00	27 05	
1		1667.951	4.6/	20.54	38.03	42.97	30.13	74.00	-3/.05	peak
2		3834.438	6.57	33.16	37.99	44.69	46.43	74.00	-27.57	peak
3		4874.000	7.83	34.28	38.44	42.37	46.04	74.00	-27.96	peak
4		6894.806	9.42	36.21	37.40	42.67	50.90	74.00	-23.10	peak
5		7311.000	9.72	36.37	37.01	41.49	50.57	74.00	-23.43	peak
6	pp	9748.000	11.20	37.55	35.02	39.01	52.74	74.00	-21.26	peak



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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel: middle



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2437 TX RSE

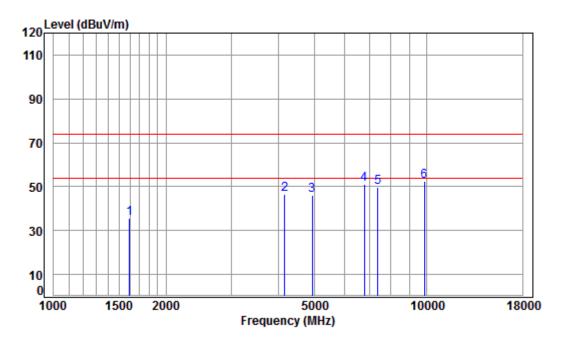
		: Z.4	G MILI	111/1/20						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1213.677	4.10	24.55	38.07	46.24	36.82	74.00	-37.18	peak
2		4495.125	7.27	33.60	38.26	44.88	47.49	74.00	-26.51	peak
3		4874.000	7.83	34.28	38.44	43.26	46.93	74.00	-27.07	peak
4		6974.982	9.49	36.43	37.32	42.59	51.19	74.00	-22.81	peak
5		7311.000	9.72	36.37	37.01	41.43	50.51	74.00	-23.49	peak
6	nn	9748 000	11 20	37 55	35 02	38 97	52 70	74 99	-21 30	neak



Report No.: SZEM170700745501

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Mode:a; Polarization:Horizontal; Modulation Type:802.11n; bandwidth:20MHz; Channel:High



Condition: 3m HORIZONTAL

Job No : 07455CR

Mode : 2462 TX RSE

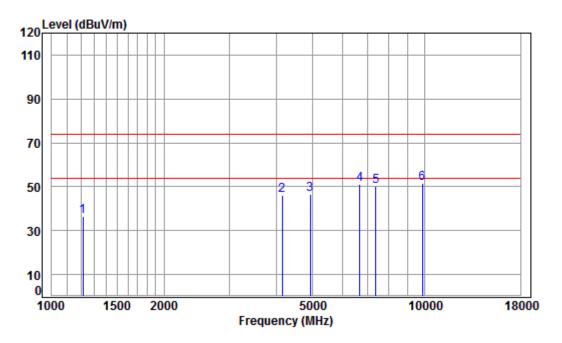
		: 2.4	G MTLT	111/12/0						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1597.181	4.59	26.24	38.03	42.68	35.48	74.00	-38.52	peak
2		4157.664	6.89	33.60	38.09	44.04	46.44	74.00	-27.56	peak
3		4924.000	7.90	34.37	38.47	42.45	46.25	74.00	-27.75	peak
4		6795.879	9.33	35.94	37.49	43.44	51.22	74.00	-22.78	peak
5		7386.000	9.77	36.34	36.94	40.42	49.59	74.00	-24.41	peak
6	nn	9848,000	11 29	37 57	34 97	38 62	52 51	74 99	-21 49	neak



Report No.: SZEM170700745501

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Mode:a; Polarization: Vertical; Modulation Type:802.11n; bandwidth: 20MHz; Channel: High



Condition: 3m VERTICAL

Job No : 07455CR

Mode : 2462 TX RSE

		: 2.4	g MTFT	111/20						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1213.677	4.10	24.55	38.07	45.98	36.56	74.00	-37.44	peak
2		4145.664	6.88	33.60	38.08	43.54	45.94	74.00	-28.06	peak
3		4924.000	7.90	34.37	38.47	42.94	46.74	74.00	-27.26	peak
4		6698.373	9.24	35.67	37.59	43.69	51.01	74.00	-22.99	peak
5		7386.000	9.77	36.34	36.94	41.12	50.29	74.00	-23.71	peak
6	nn	9848 000	11.29	37.57	34.97	37.56	51.45	74.00	-22.55	neak



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#### Remark:

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

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics 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. So, only the peak measurements were shown in the report.

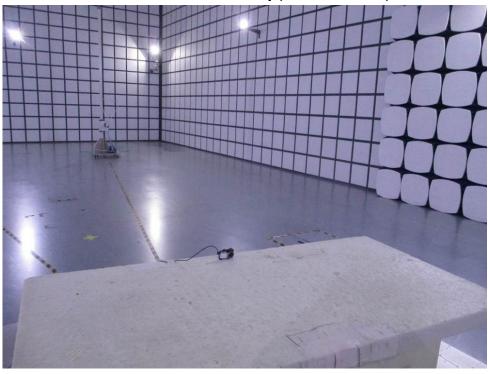


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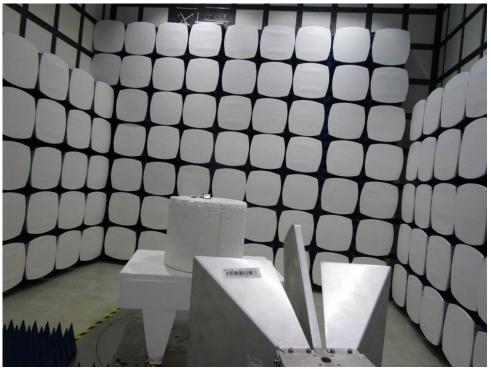
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#### 8 Photographs

#### 8.1 Radiated Emissions Test Setup(30MHz~1GHZ)



#### 8.2 Radiated Emissions Test Setup(Above 1GHZ)



#### 8.3 EUT Constructional Details

Refer to EUT external and internal photos.

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#### 9 Appendix

#### 9.1 Appendix 15.247

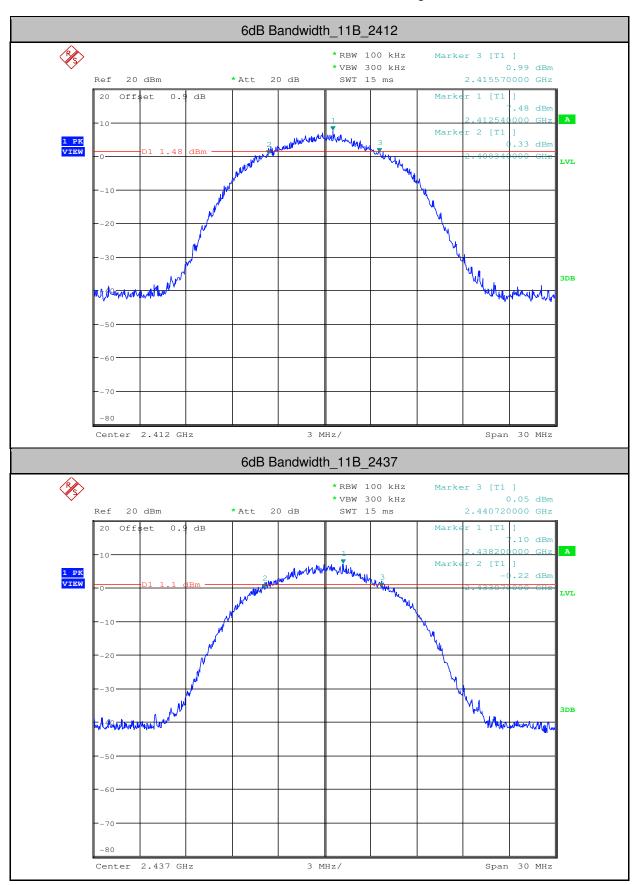
#### 1. 6dB Bandwidth

Test Mode	Test Channel	EBW[MHz]	Limit	Verdict
11B	2412	7.230	>=0.5	PASS
11B	2437	7.650	>=0.5	PASS
11B	2462	7.860	>=0.5	PASS
11G	2412	15.780	>=0.5	PASS
11G	2437	15.780	>=0.5	PASS
11G	2462	15.705	>=0.5	PASS
11N20SISO	2412	16.680	>=0.5	PASS
11N20SISO	2437	17.070	>=0.5	PASS
11N20SISO	2462	17.190	>=0.5	PASS



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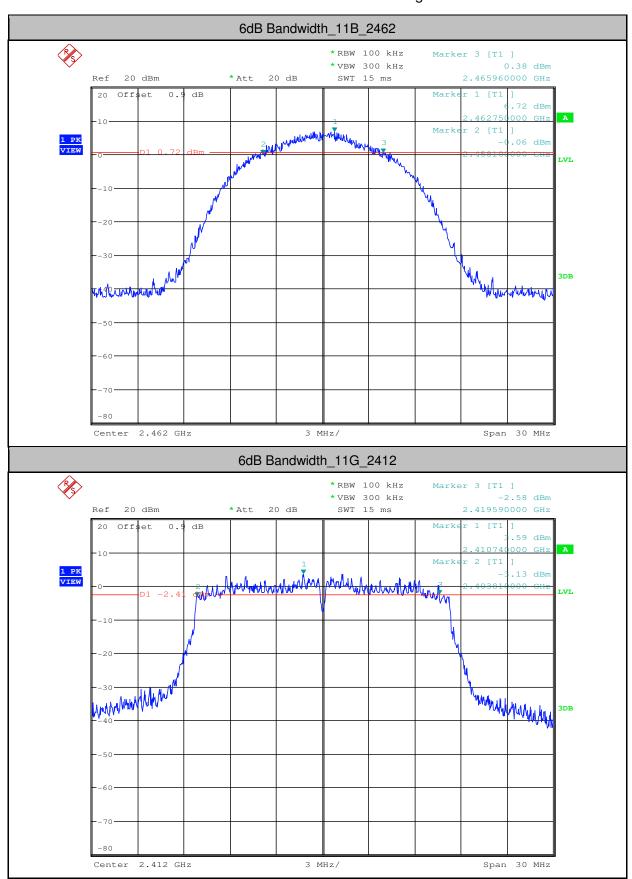


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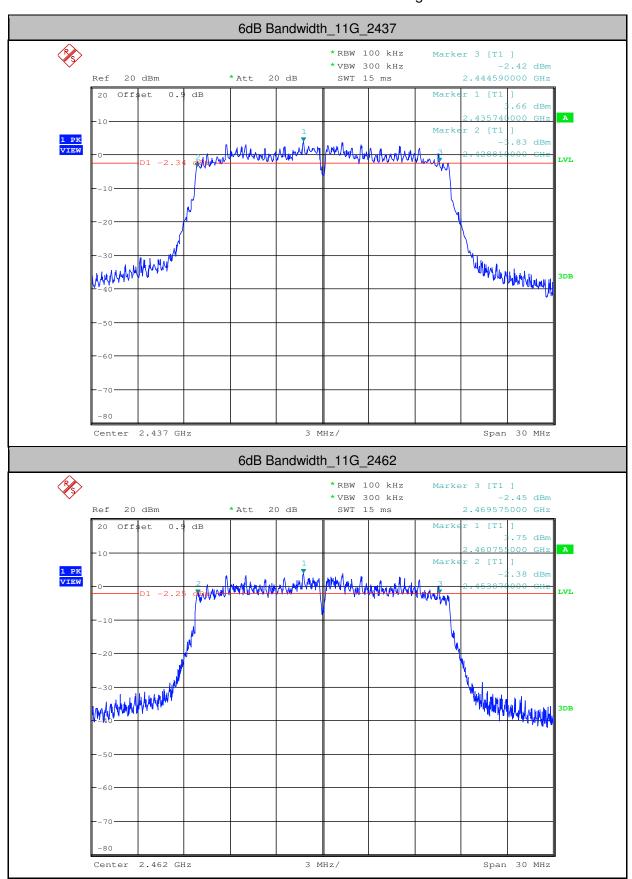
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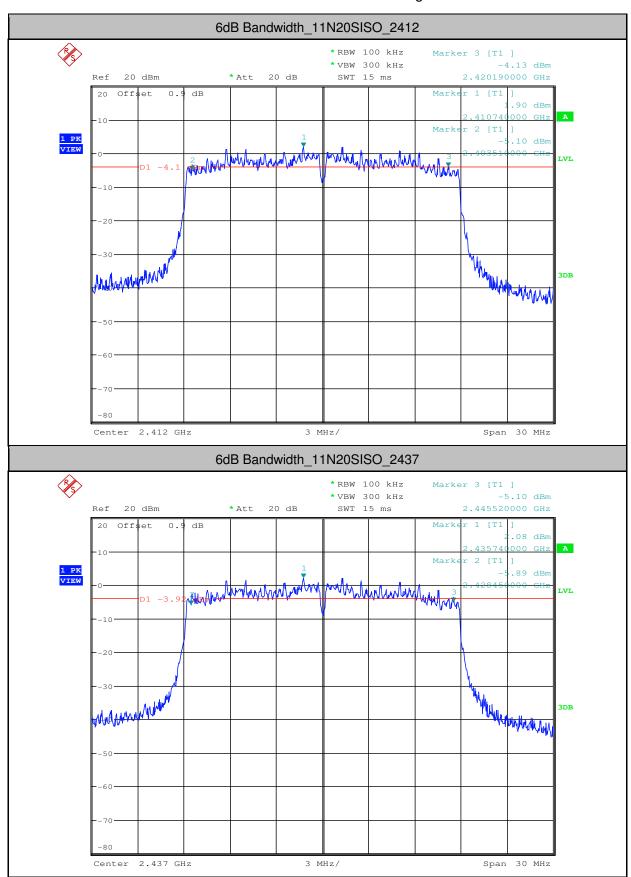


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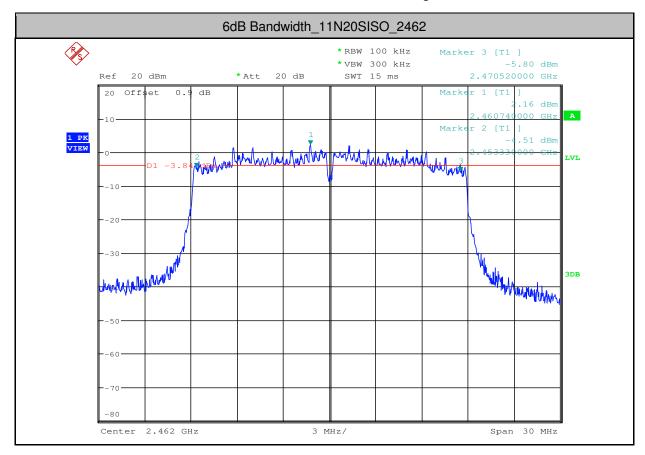
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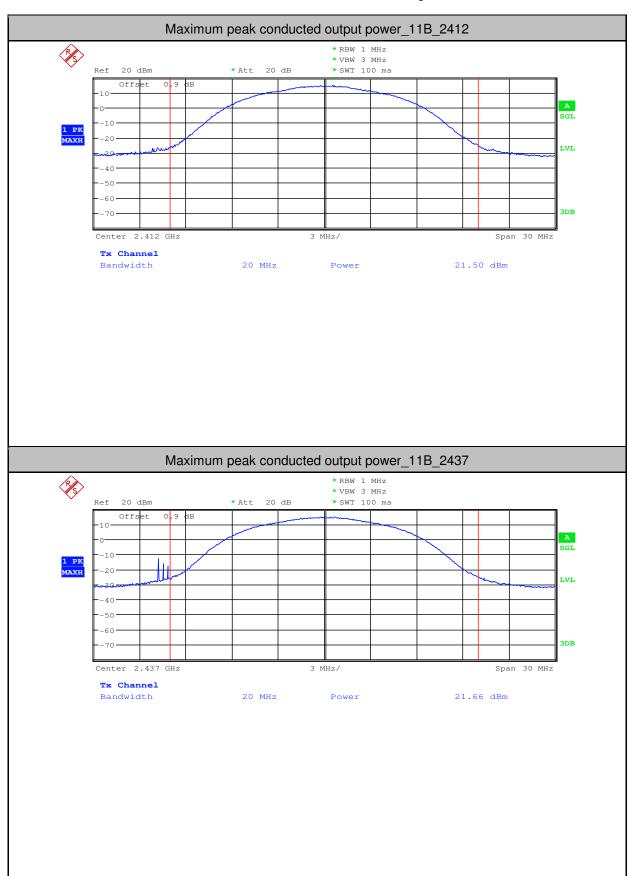
#### 2. Maximum peak conducted output power

Test Mode	Test Channel	Power[dBm]	Limit[dBm]	Verdict
11B	2412	21.5	<30	PASS
11B	2437	21.66	<30	PASS
11B	2462	21.73	<30	PASS
11G	2412	23.53	<30	PASS
11G	2437	23.7	<30	PASS
11G	2462	23.69	<30	PASS
11N20SISO	2412	21.74	<30	PASS
11N20SISO	2437	21.81	<30	PASS
11N20SISO	2462	21.86	<30	PASS



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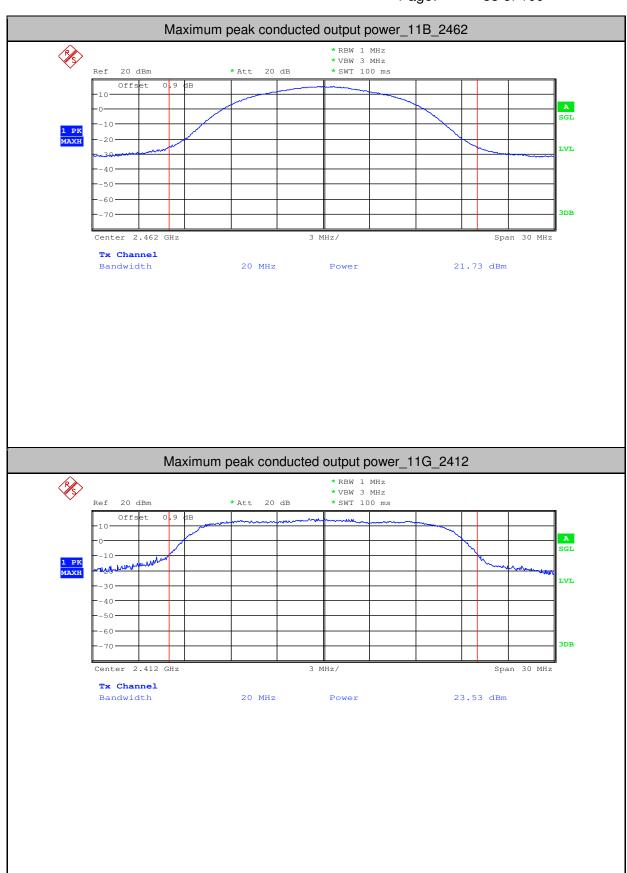
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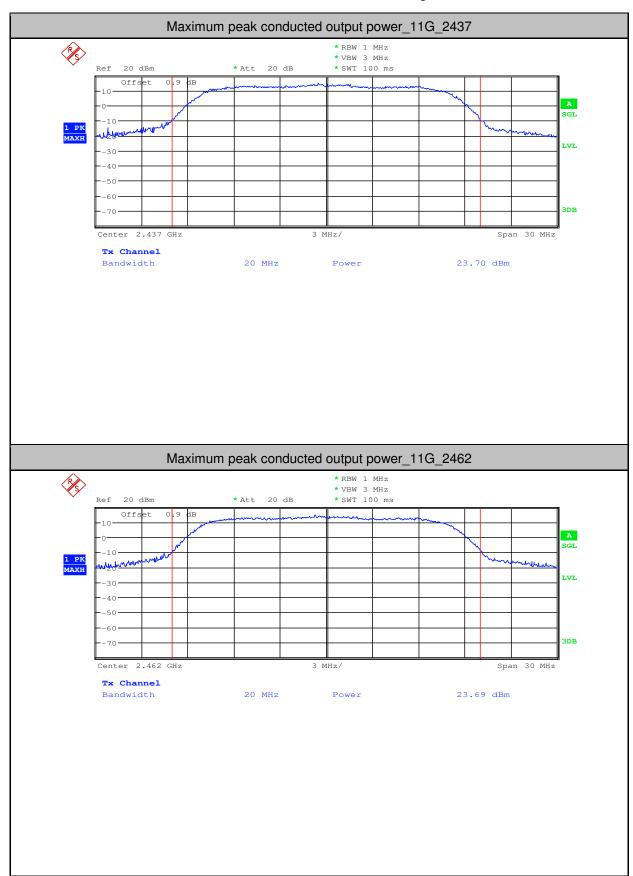
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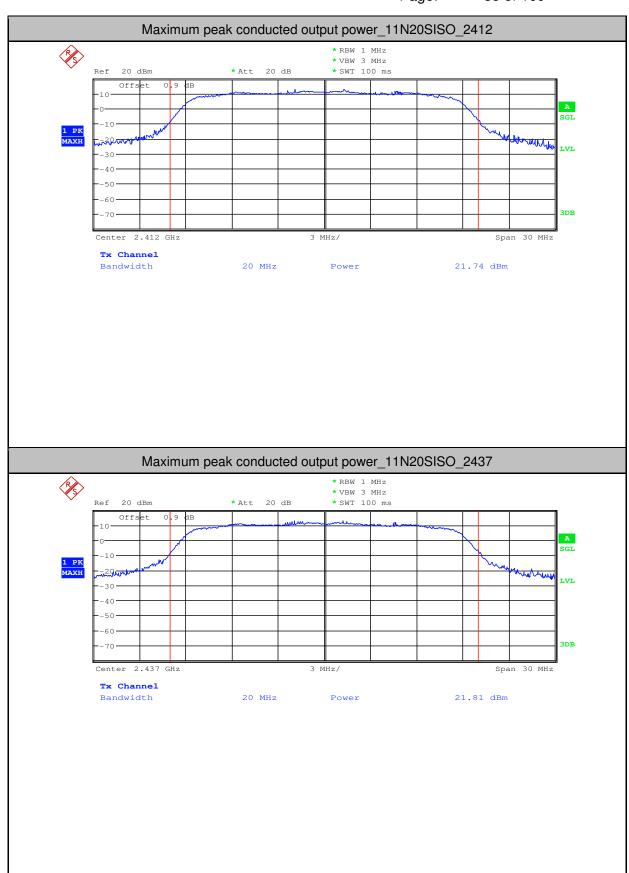
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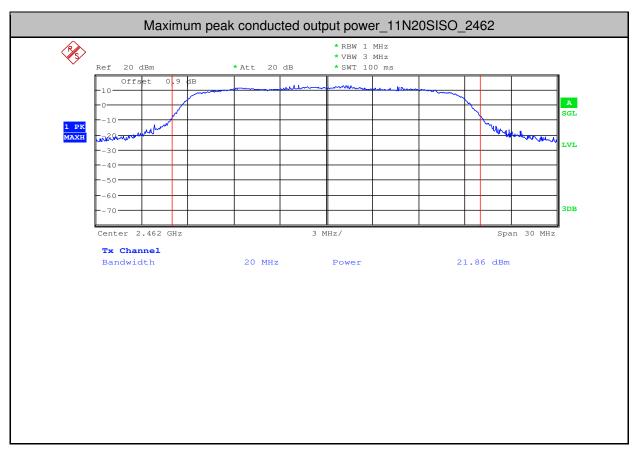
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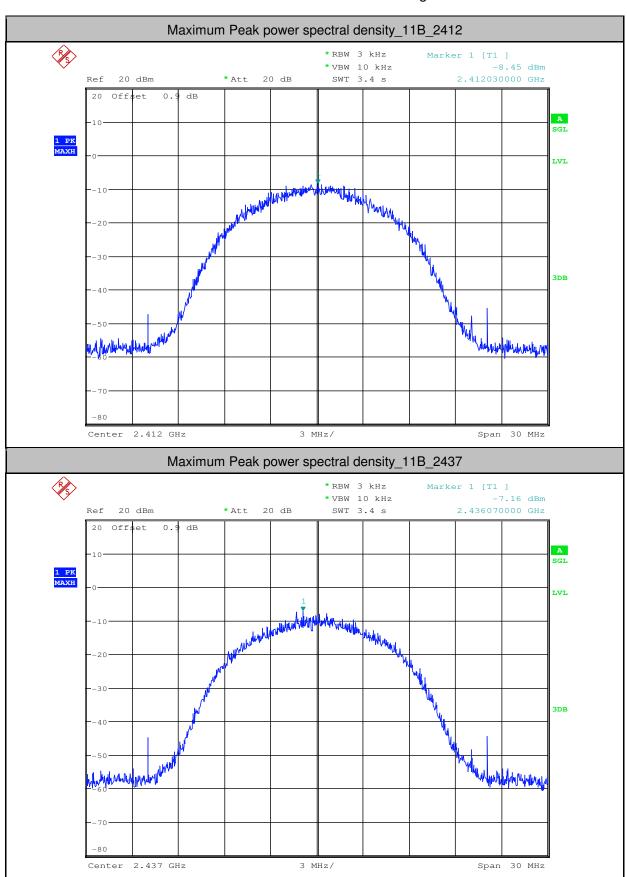
#### 3. Maximum Peak power spectral density

Test Mode	Test Channel	PSD[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	2412	-8.45	<8.00	PASS
11B	2437	-7.16	<8.00	PASS
11B	2462	-7.72	<8.00	PASS
11G	2412	-10.48	<8.00	PASS
11G	2437	-10.33	<8.00	PASS
11G	2462	-10.3	<8.00	PASS
11N20SISO	2412	-12.87	<8.00	PASS
11N20SISO	2437	-13.42	<8.00	PASS
11N20SISO	2462	-13.74	<8.00	PASS



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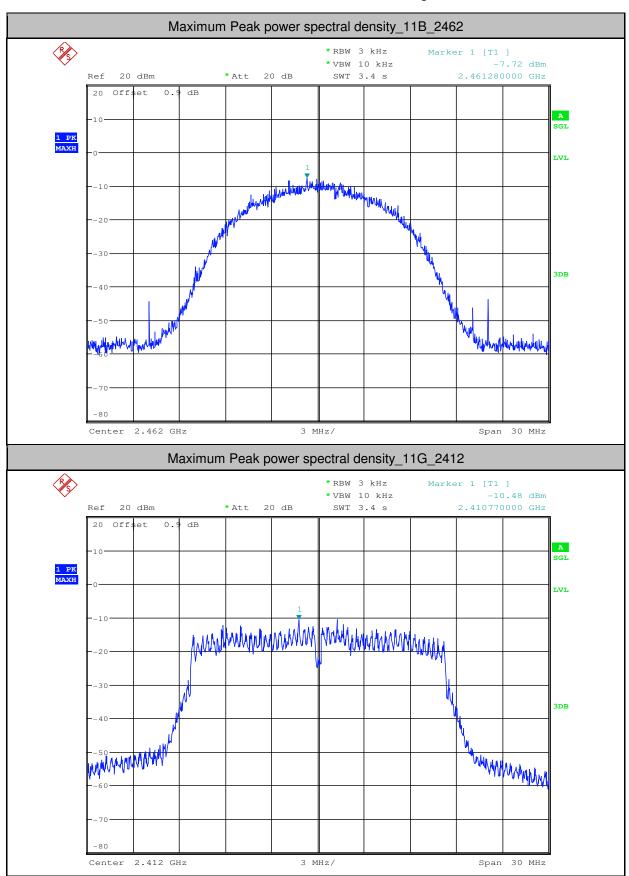


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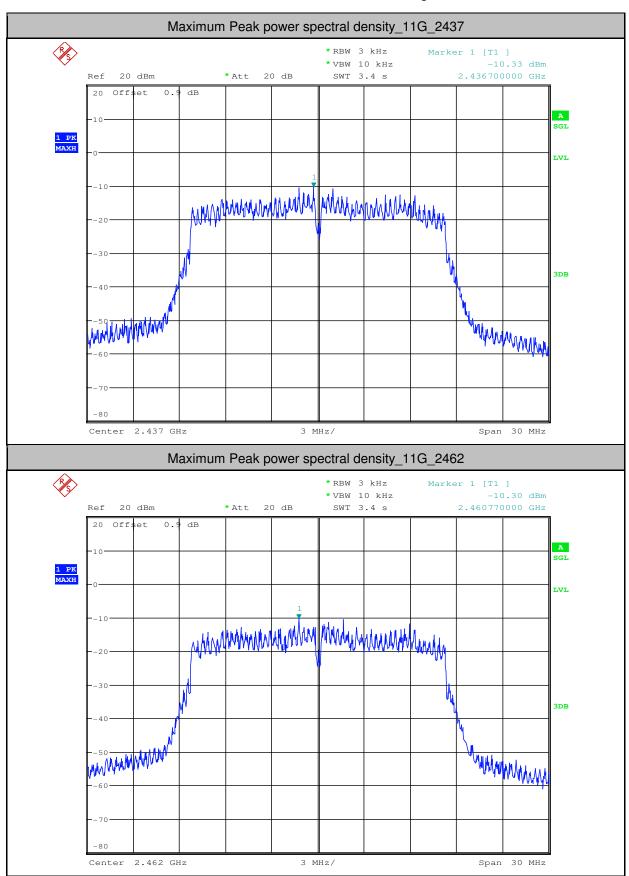


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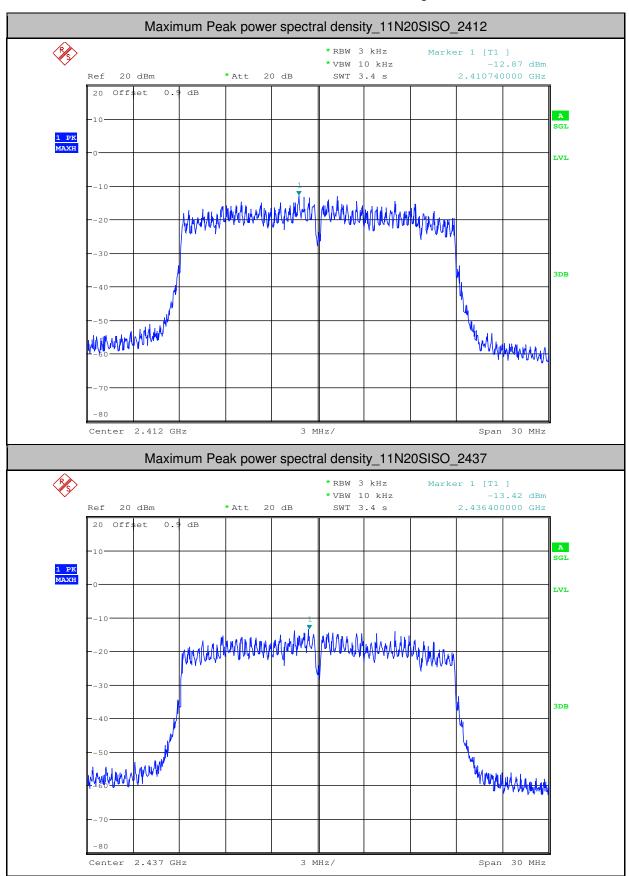


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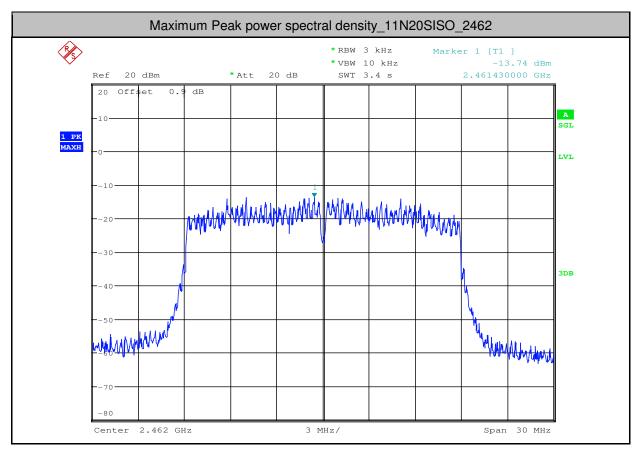
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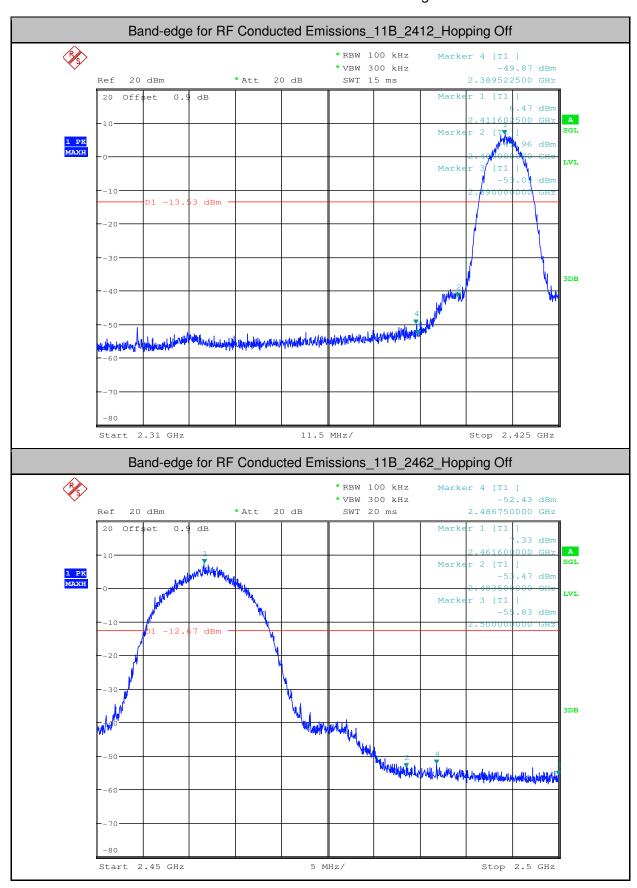
#### 4. Band-edge for RF Conducted Emissions

Test Mode	Test Channel	Carrier Power[dBm]	Max. Spurious Level [dBm]	Limit [dBm]	Verdict
11B	2412	6.470	-49.874	<-13.53	PASS
11B	2462	7.330	-52.432	<-12.67	PASS
11G	2412	3.630	-41.569	<-16.37	PASS
11G	2462	3.760	-44.693	<-16.24	PASS
11N20SISO	2412	2.000	-45.051	<-18	PASS
11N20SISO	2462	1.870	-44.782	<-18.13	PASS



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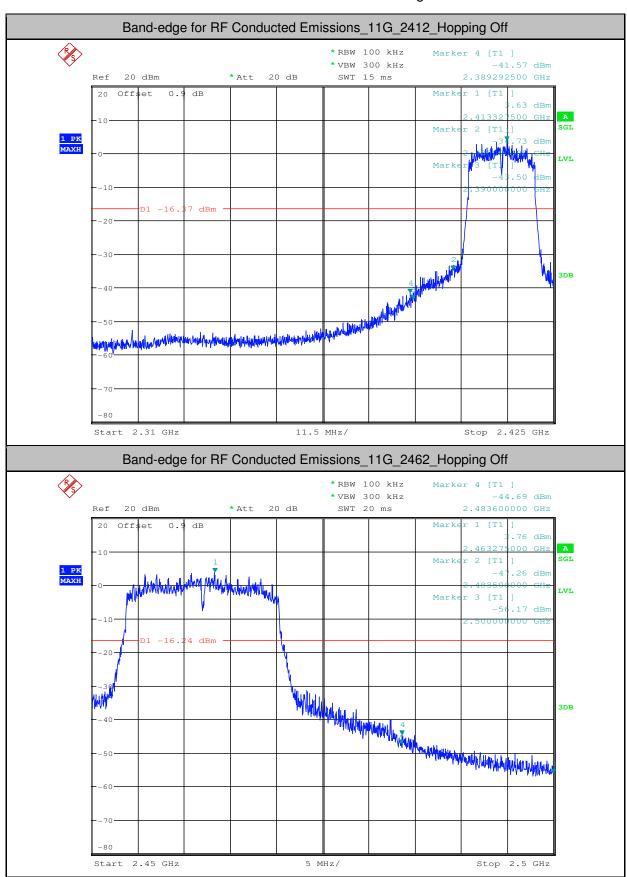
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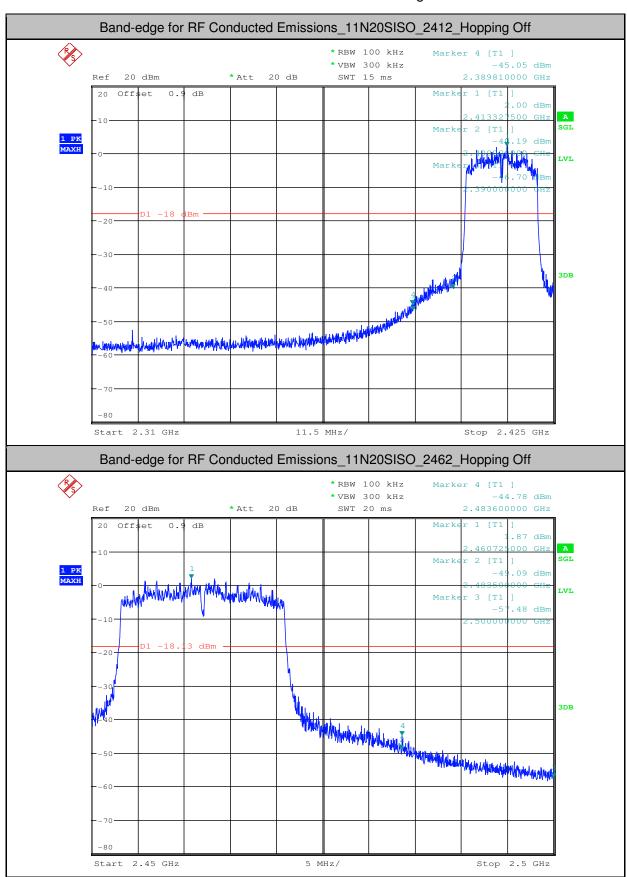
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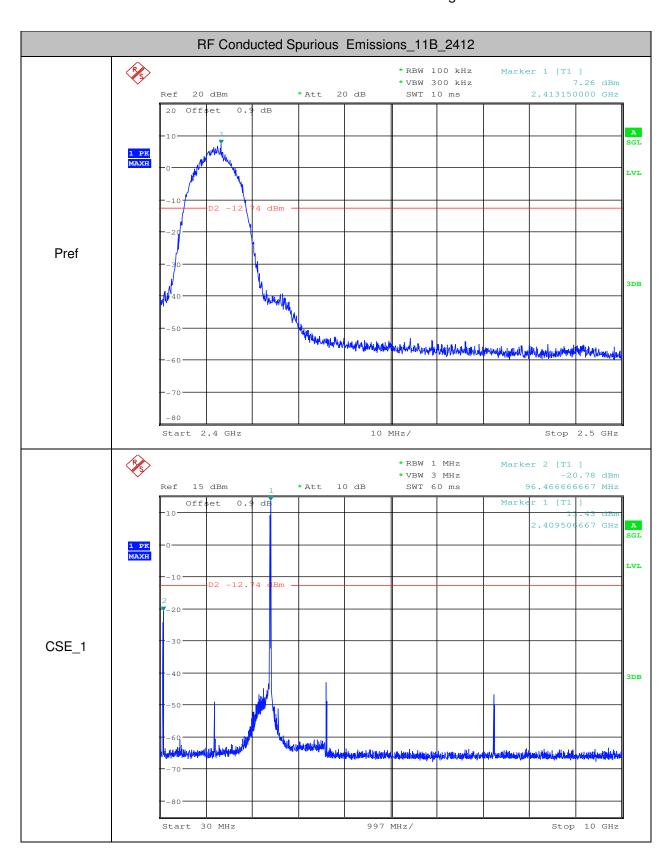
#### 5. RF Conducted Spurious Emissions

Test Mode	Test Channel	StartFre [MHz]	StopFre [MHz]	RBW [kHz]	VBW [kHz]	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	2412	30	10000	1000	3000	7.26	-20.780	<-12.74	PASS
11B	2412	10000	25000	1000	3000	7.26	-62.100	<-12.74	PASS
11B	2437	30	10000	1000	3000	7.26	-21.220	<-12.74	PASS
11B	2437	10000	25000	1000	3000	7.26	-62.220	<-12.74	PASS
11B	2462	30	10000	1000	3000	6.83	-21.280	<-13.17	PASS
11B	2462	10000	25000	1000	3000	6.83	-62.470	<-13.17	PASS
11G	2412	30	10000	1000	3000	3.61	-22.940	<-16.39	PASS
11G	2412	10000	25000	1000	3000	3.61	-62.580	<-16.39	PASS
11G	2437	30	10000	1000	3000	3.8	-20.190	<-16.2	PASS
11G	2437	10000	25000	1000	3000	3.8	-62.840	<-16.2	PASS
11G	2462	30	10000	1000	3000	4.13	-22.970	<-15.87	PASS
11G	2462	10000	25000	1000	3000	4.13	-62.910	<-15.87	PASS
11N20SISO	2412	30	10000	1000	3000	2.25	-26.450	<-17.75	PASS
11N20SISO	2412	10000	25000	1000	3000	2.25	-62.150	<-17.75	PASS
11N20SISO	2437	30	10000	1000	3000	1.98	-26.460	<-18.02	PASS
11N20SISO	2437	10000	25000	1000	3000	1.98	-62.630	<-18.02	PASS
11N20SISO	2462	30	10000	1000	3000	2.23	-27.140	<-17.77	PASS
11N20SISO	2462	10000	25000	1000	3000	2.23	-62.560	<-17.77	PASS



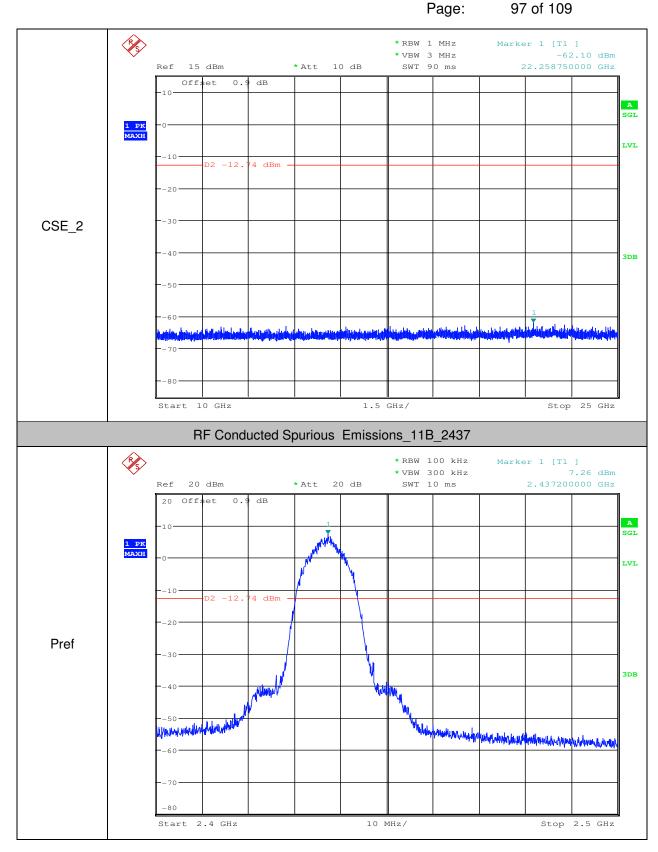
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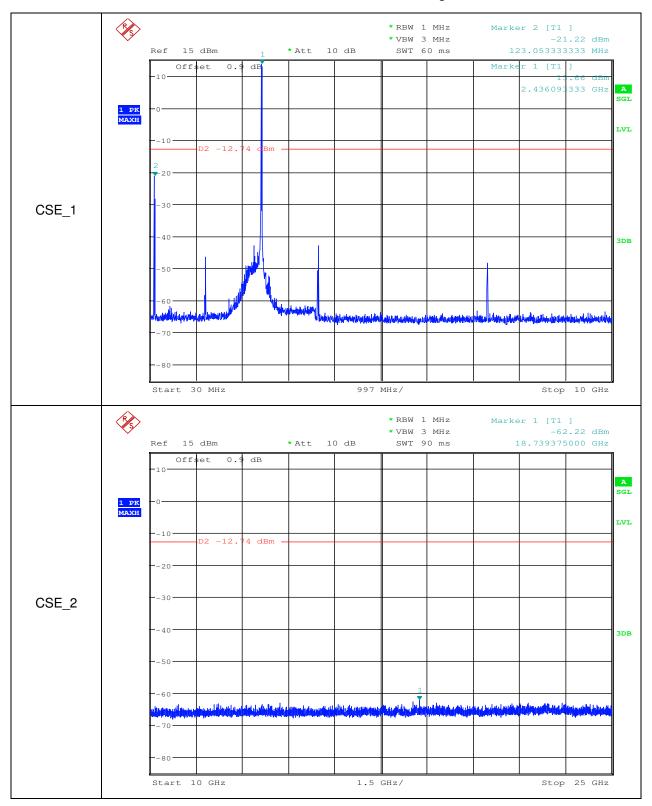
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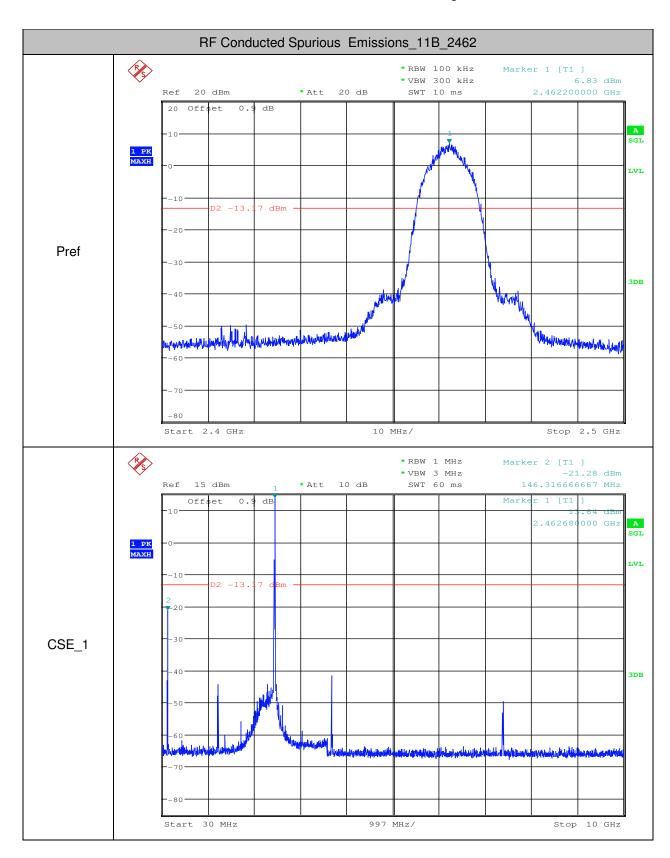
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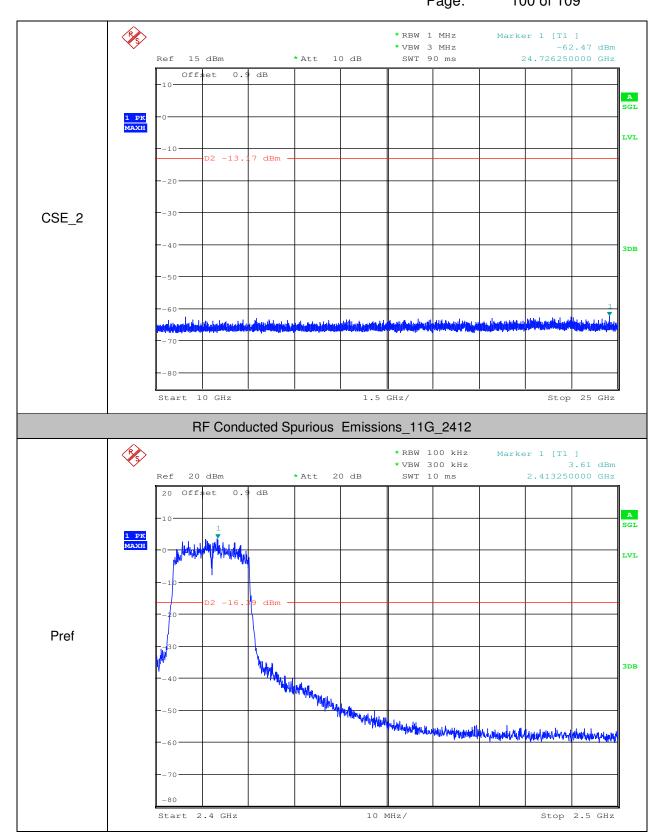
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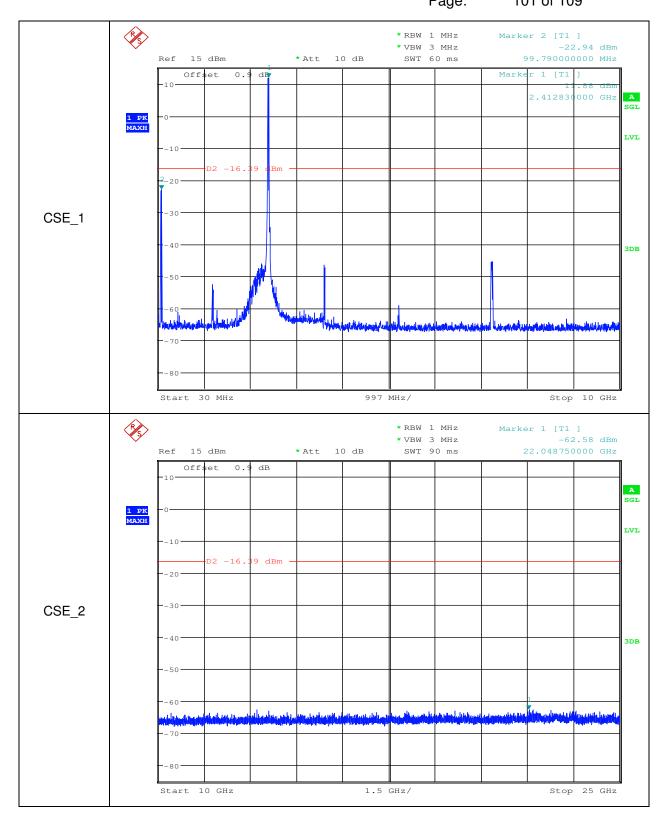


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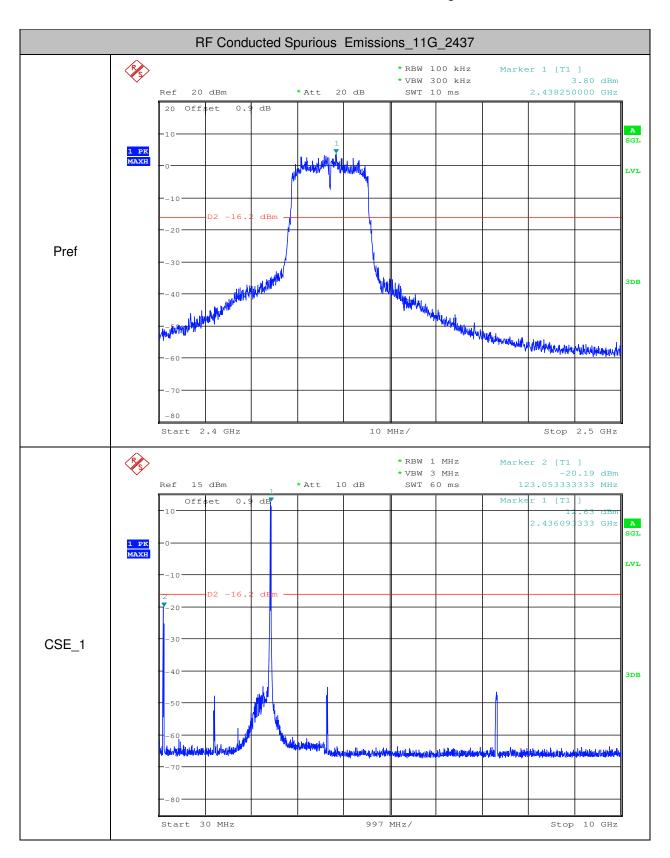
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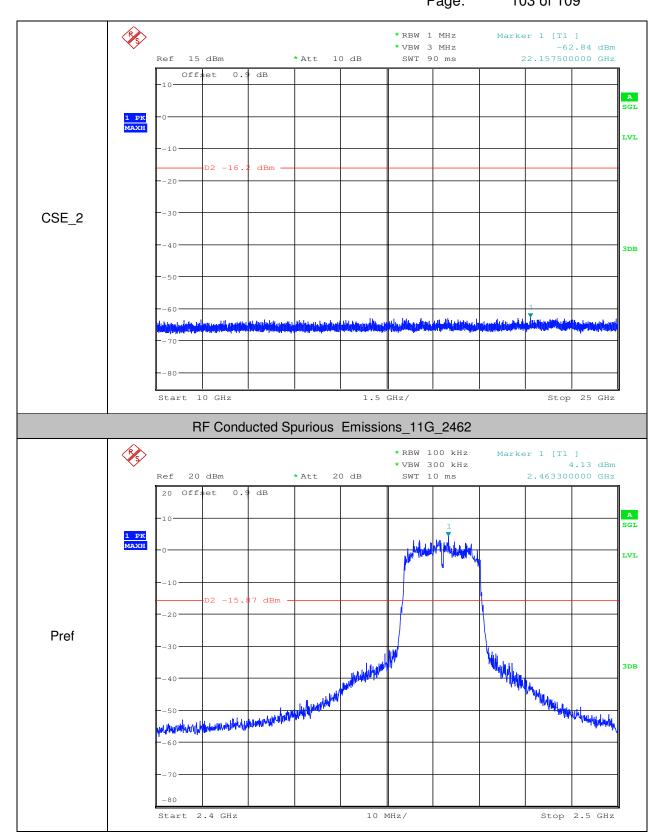
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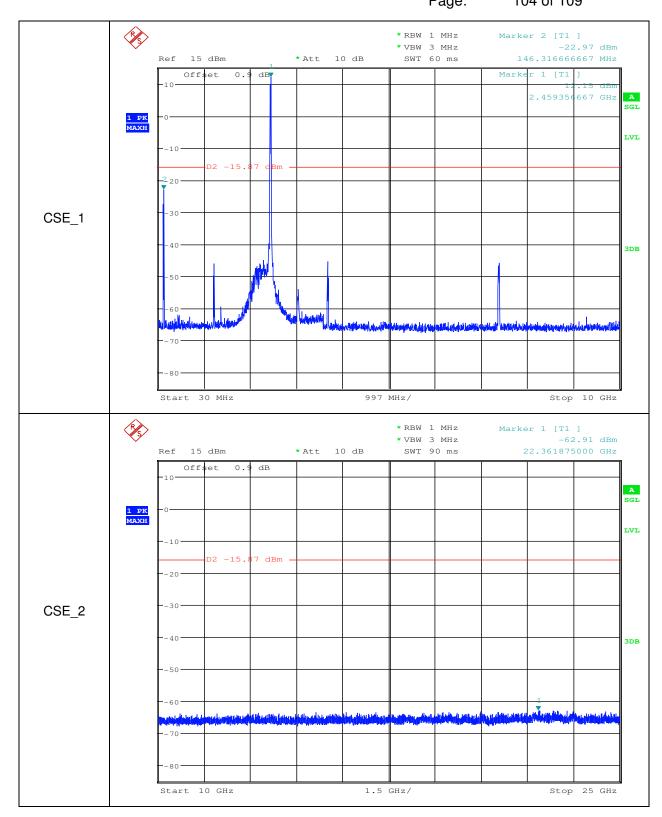


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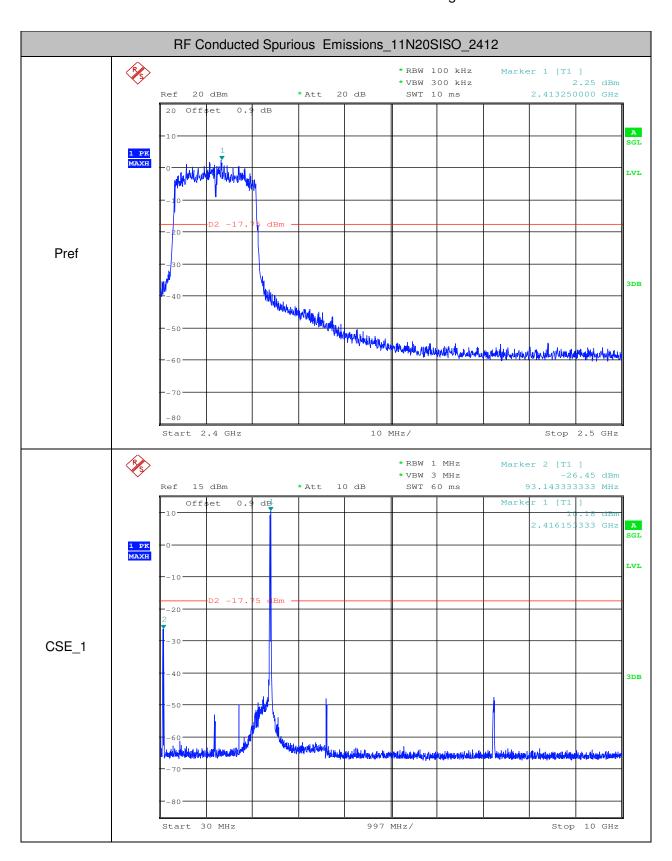
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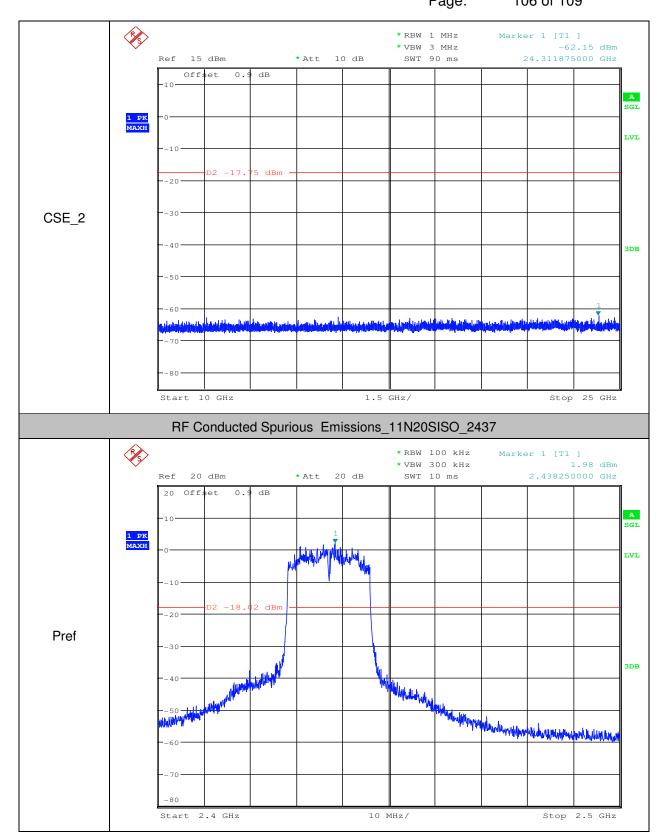
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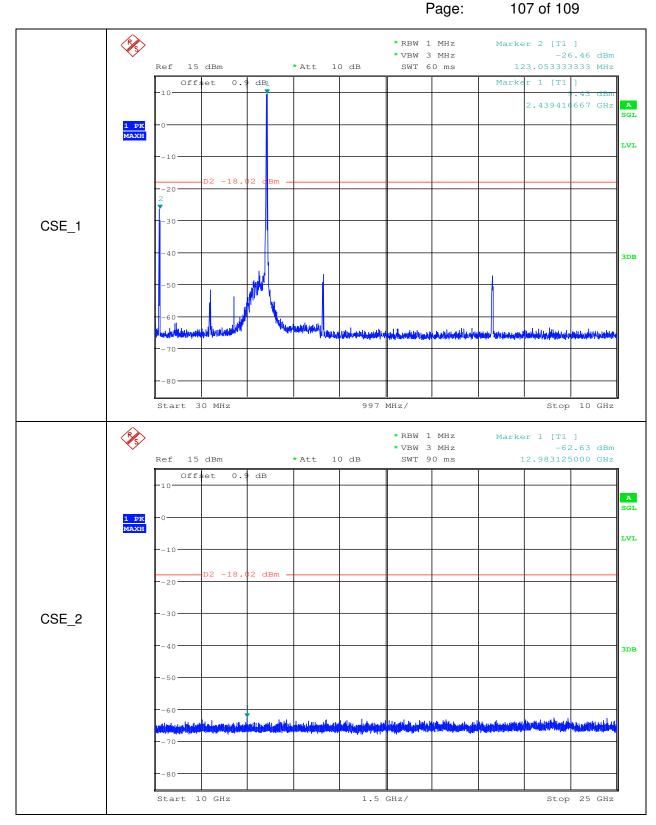


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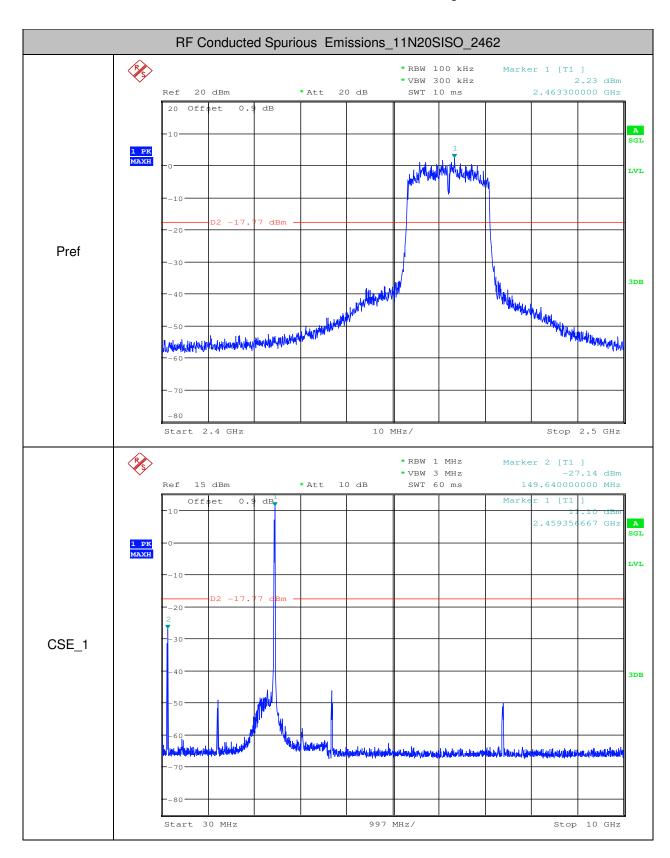
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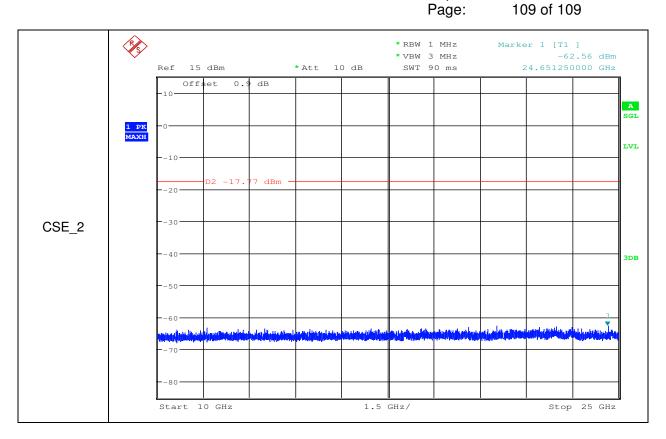
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