

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

Report No.: SZCR210300003004

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TEST REPORT

SZCR2103000030AT(SHEM2011009697CR) Application No.:

FCC ID: 2APJ4-SLM500

Applicant: MeiG Smart Technology Co., Ltd

Address of Applicant: 3/F,No.88,Qinjiang Road, Xuhui District, Shanghai, China.

Manufacturer: MeiG Smart Technology Co., Ltd

Address of Manufacturer: 5/F,Bld G,No.2337,Gudai Road,Minghang District,Shanghai,China

Equipment Under Test (EUT):

EUT Name: Smart module

Model No.: SLM500 Trade mark: Meig Link

Standard(s): 47 CFR Part 15, Subpart E 15.407

2020-11-19 **Date of Receipt:**

Date of Test: 2020-12-22 to 2021-01-08

Date of Issue: 2021-01-11

Pass* **Test Result:**

EMC Laboratory Manager

Keny. xu



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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	2021-01-11	/			

Authorized for issue by:	
	Brir Chen
	Bill Chen / Project Engineer
	Eric Fu
	Eric Fu / Reviewer



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Test Summary 2

Radio Spectrum Technical Requirement						
Item	FCC Requirement	Method	Result			
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	N/A	Pass			
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	N/A	Pass			

N/A: Not applicable

Radio Spectrum Matter Part						
Item	FCC Requirement	Method	Result			
99% Bandwidth	N/A	KDB 789033 II D	Pass			
26dB Emission bandwidth	47 CFR Part 15, Subpart C 15.407 (a)	KDB 789033 D02 II C 1	Pass			
Minimum 6 dB bandwidth (5.725- 5.85 GHz band)	47 CFR Part 15, Subpart C 15.407 (e)	KDB 789033 D02 II C 2	Pass			
Maximum Conducted output power	47 CFR Part 15, Subpart C 15.407 (a)	KDB 789033 D02 II E	Pass			
Peak Power spectrum density	47 CFR Part 15, Subpart C 15.407 (a)	KDB 789033 D02 II F	Pass			
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	KDB 789033 D02 II G	Pass			
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	KDB 789033 D02 II G	Pass			



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General Information

4.1 Details of E.U.T.

Power supply: DC 3.8V by DC power supply

Test voltage: DC 3.8V

Serial Number: M500QE8BYA071000060

Firmware version: SLM500Q_EQ000_2774.2AAF2F74.BCA2CDE_200628_100_V01_T09

Antenna Gain: 1dBi (Provided by the manufacturer)

Antenna Type: Dipole Antenna

DFS Function: Slave without Radar detection

TPC Function: Not Support

	Band	Mode	Frequency Range(MHz)	Number of channels		
	UNII Band I	802.11a/n(HT20)	5180-5240	4		
		802.11n(HT40)	5190-5230	2		
Operation	UNII Band II-A	802.11a/n(HT20)	5260-5320	4		
Frequency:		802.11n(HT40)	5270-5310	2		
	UNII Band II-C	802.11a/n(HT20)	5500-5700	11		
		802.11n(HT40)	5510-5670	5		
	UNII Band III	802.11a/n(HT20)	5745-5825	5		
		802.11n(HT40)	5755-5795	2		
Madulatian Tuna.	802.11a: OFDM (6	64QAM, 16QAM, QPSK, BPSK)			
Modulation Type:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)					
Channel Specing	802.11a/n(HT20): 20MHz					
Channel Spacing:	802.11n(HT40): 40MHz					
Data Pate:	802.11a: 6/9/12/18/24/36/48/54Mbps					
Data Rate:	802.11n: MCS0-7					

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
DC Power Supply	Laboratory	N/A	E903131
Laptop	Lenovo	ThinkPad X100e	/



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4.3 Power level setting using in test

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Channel	802.11a	802.11n(HT20)	Channel	802.11n(HT40)	
	Ant 1	Ant 1		Ant 1	
36	15	15	38	15	
40	15	15	46	15	
48	15	15	54	15	
52	15	15	62	15	
60	15	15	102	16	
64	15	15	110	16	
100	16	16	118	16	
116	16	16	134	15	
120	16	16	151	15	
140	16	15	159	15	
149	16	15			
157	15	15			
165	15	15			



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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	0.37%
4	Occupied Bandwidth	3%
5	RF Conducted Power	0.6dB
6	RF Power Density	2.9dB
7	Conducted Spurious Emissions	0.75dB
0	DE Dadiatad Davis	5.1dB (Below 1GHz)
8	RF Radiated Power	4.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dadiated Courieus Emission Test	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 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:

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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.

4.6 Test Facility

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

• 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.

• Innovation, Science and Economic Development Canada

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

CAB identifier: CN0006. IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None



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Equipment List 5

RF test system					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
MXA Signal Analyzer(10Hz- 26.5GHz)	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator (9kHz- 40GHz)	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
MXG Vector Signal Generator	KEYSIGHT	N5182A	SEM006-14	2020-03-23	2021-03-22
ESG Vector Signal Generator	KEYSIGHT	E4438C	SEM006-15	2020-09-23	2021-09-22
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2020-04-09	2021-04-08
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2020-04-09	2021-04-08
Power Sensor	KEYSIGHT	U2021XA	SEM009-20	2020-05-21	2021-05-20
Power Sensor	KEYSIGHT	U2021XA	SEM009-21	2020-05-21	2021-05-20
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2020-03-25	2021-03-24
Universal Radio Communication Tester	Rohde & Schwarz	CMW 500	SEM010-03	2020-04-01	2021-03-31
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-03	2020-07-10	2021-07-09

Radiated Emissions which fall in the restricted bands						
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date	
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12	
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08	
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12	
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22	
Measurement Software	Farad	EZ-EMC	N/A	N/A	N/A	
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09	



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Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2020-11-14	2023-11-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31

Radiated Spurious Emissions										
RE in Chamber <1GHz										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date	Cal. Due date					
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18					
MXE EMI receiver(3Hz- 3.6GHz)	KEYSIGHT	N9038A	SEM004-15	2020-11-02	2021-11-01					
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23					
Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEM005-01	2020-04-01	2021-03-31					
Measurement Software	Farad	EZ-EMC	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09					
RE in Chamber >1GHz										
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)					
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12					
EXA Signal Analyzer (10Hz-44GHz)	Agilent Technologies Inc	N9010A	SEM004-12	2020-04-09	2021-04-08					
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12					
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16					
Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22					
Pre-amplifier (26- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2020-04-01	2021-03-31					
Measurement Software	Farad	EZ-EMC	N/A	N/A	N/A					
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09					



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General used equipment									
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date				
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14				
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14				
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06				



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Radio Spectrum Technical Requirement 6

Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15,203

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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is dipole antenna and no consideration of replacement. The best case gain of the antenna is 1dBi.

Antenna location: Refer to Appendix (Internal Photos)



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip (WCN3660B) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 **Duty Cycle**

Test Requirement KDB 789033 D02 II B 1 Test Method: KDB 789033 II B 1

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 25 Humidity: 49 % RH Atmospheric Pressure: 1002 mbar

Test mode e:TX mode (Band 1) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

in the report.

f:TX mode (Band 2A) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

q:TX mode (Band 2C) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



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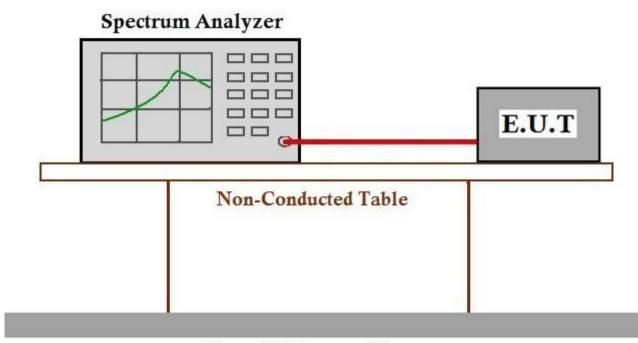


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7.1.2 Test Setup Diagram



Ground Reference Plane

7.1.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.2 99% Bandwidth

Test Requirement N/A

KDB 789033 II D Test Method:

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 50 % RH Atmospheric Pressure: 1004 mbar

Test mode: e:TX mode (Band 1) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

in the report.

f:TX mode (Band 2A) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

q:TX mode (Band 2C) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



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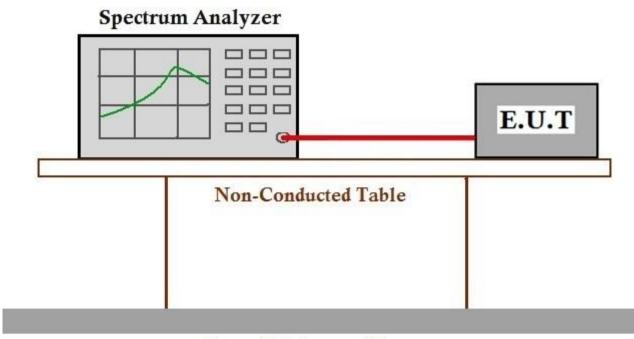


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7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.3 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

KDB 789033 D02 II C 1 Test Method:

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: Humidity: 49 % RH Atmospheric Pressure: 1003 mbar

Test mode: e:TX mode (Band 1) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

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f:TX mode (Band 2A) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

q:TX mode (Band 2C) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



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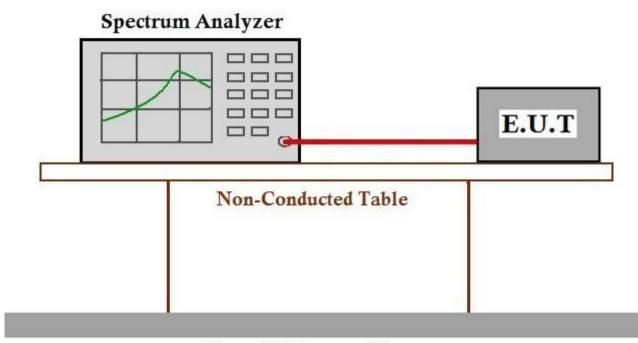


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7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.4 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit: ≥500 kHz

7.4.1 E.U.T. Operation

Operating Environment:

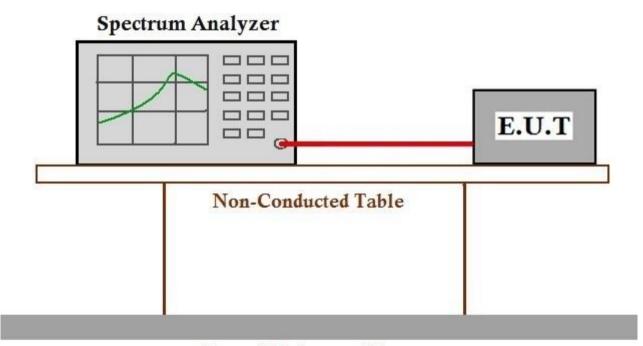
Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1003 mbar

Test mode h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the

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7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.5 Maximum Conducted output power

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II E

Limit:

Frequenc	y band(MHz)	Limit					
5450.5	-050	≤1W(30dBm) for master device					
5150-5	0200	≤250mW(24dBm) for client device					
5250-5	350	≤250mW(24dBm) for client device or 11dBm+10logB*					
5470-5	5725	≤250mW(24dBm) for client device or 11dBm+10logB*					
5725-5	850	≤1W(30dBm)					
Remark:	* Where B is the	the 26dB emission bandwidth in MHz.					
		n conducted output power must be measured over any interval of insmission using instrumentation calibrated in terms of an rms-equivalent					





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7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1002 mbar

Test mode: e:TX mode (Band 1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

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f:TX mode (Band 2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



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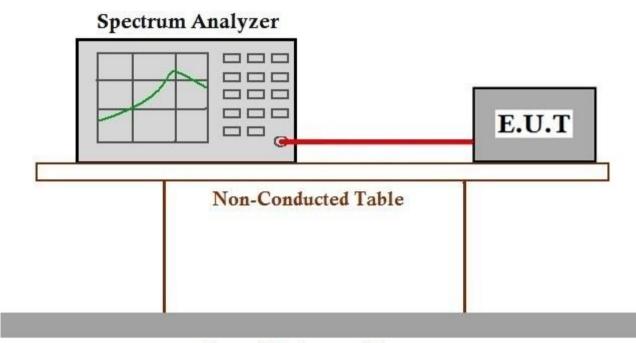


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7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.6 Peak Power spectrum density

Test Requirement 47 CFR Part 15, Subpart C 15.407 (a)

Test Method: KDB 789033 D02 II F

Limit:

Frequenc	y band(MHz)	Limit					
E450 5	-250	≤17dBm in 1MHz for master device					
5150-5	0250	≤11dBm in 1MHz for client device					
5250-5	350	≤11dBm in 1MHz for client device					
5470-5	5725	≤11dBm in 1MHz for client device					
5725-5	850	≤30dBm in 500 kHz					
Remark:		n power spectral density is measured as a conducted emission by direct a calibrated test instrument to the equipment under test.					





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7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1002 mbar

Test mode: e:TX mode (Band 1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

in the report.

f:TX mode (Band 2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



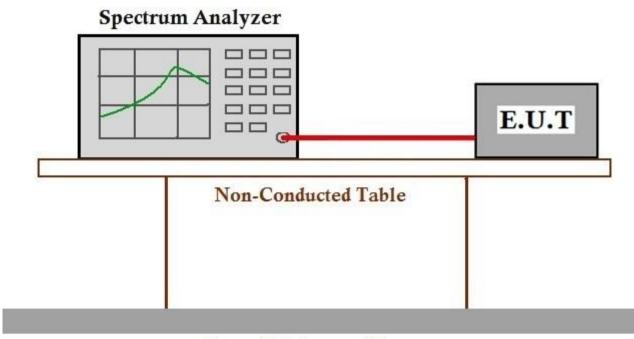


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7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.7 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

Limit:

Limit:

For transmitters operating in the 5.15-5.25 GHz band:

For transmitters operating in the 5.25-5.35 GHz band:

For transmitters operating in the 5.47-5.725 GHz band:

For transmitters operating in the 5.725-5.85 GHz band:

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz (68.2dBuV/m).

All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (68.2dBuV/m).

(i) All emissions shall be limited to a level of −27 dBm/MHz (68.2dBuV/m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz (105.2dBuV/m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz (110.8dBuV/m) at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz (122.2dBuV/m) at the band edge.

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1004 mbar

Test mode:

e:TX mode (Band 1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

f:TX mode (Band 2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the



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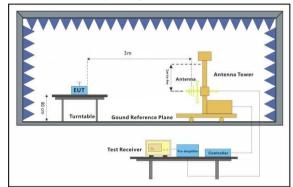
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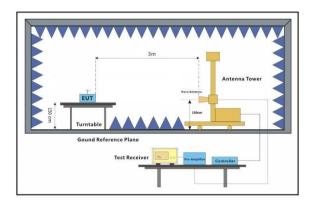
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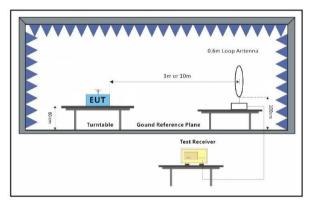
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report.

7.7.2 Test Setup Diagram









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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, guasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete. Remark:
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and 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.
- 4. 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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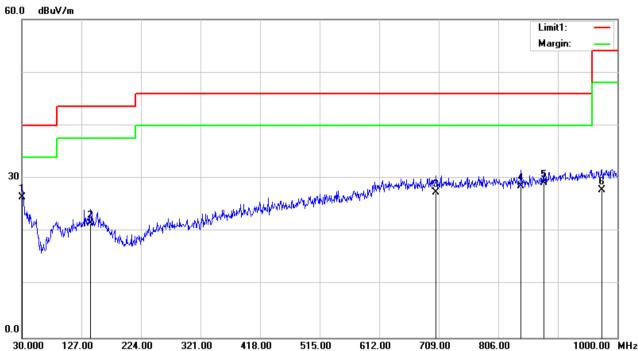
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Below 1GHz

Mode:e; Polarization:Horizontal;



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	1.15	25.38	26.53	40.00	-13.47	100	112	QP
2	141.5500	1.70	19.86	21.56	43.50	-21.94	100	213	QP
3	704.1500	-0.14	27.50	27.36	46.00	-18.64	100	291	QP
4	842.8600	0.61	28.04	28.65	46.00	-17.35	100	0	QP
5	879.7200	0.69	28.43	29.12	46.00	-16.88	100	292	QP
6	974.7800	-1.36	29.25	27.89	54.00	-26.11	100	360	QP



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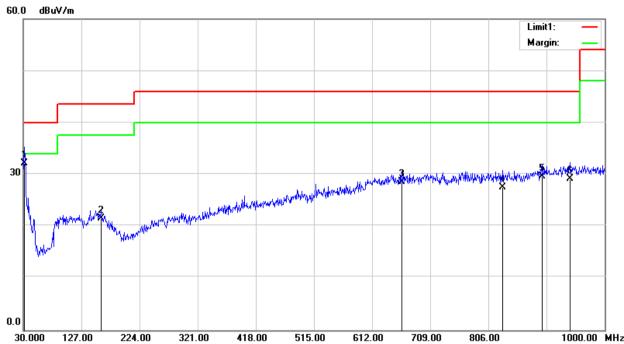


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Mode:e; Polarization:Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	31.9400	7.30	24.82	32.12	40.00	-7.88	100	0	QP
2	159.9800	2.20	19.36	21.56	43.50	-21.94	100	0	QP
3	661.4700	1.45	27.20	28.65	46.00	-17.35	100	149	QP
4	829.2800	-0.49	27.98	27.49	46.00	-18.51	201	360	QP
5	895.2400	1.04	28.61	29.65	46.00	-16.35	201	360	QP
6	941.8000	-0.09	29.20	29.11	46.00	-16.89	100	0	QP



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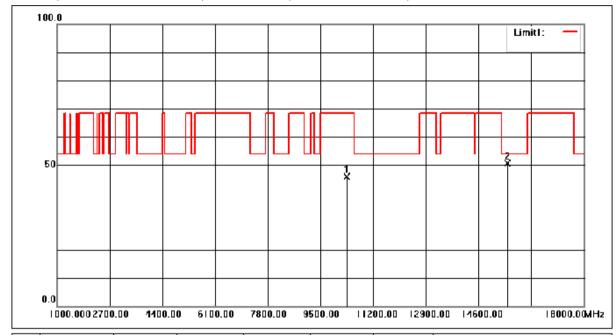
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Above 1GHz

Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10360.000	48.56	-2.59	45.97	68.30	-22.33	peak
2	15540.000	50.96	-0.30	50.66	54.00	-3.34	peak



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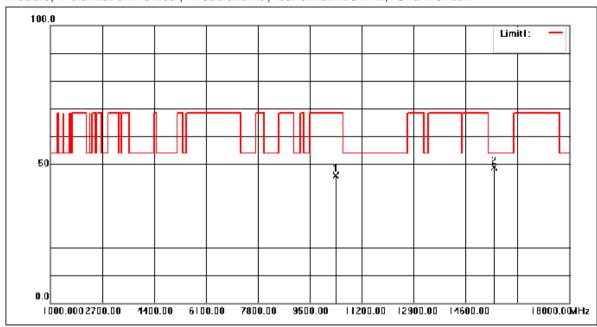


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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10360.000	48.52	-2.59	45.93	68.30	-22.37	peak
2	15540.000	49.18	-0.30	48.88	54.00	-5.12	peak



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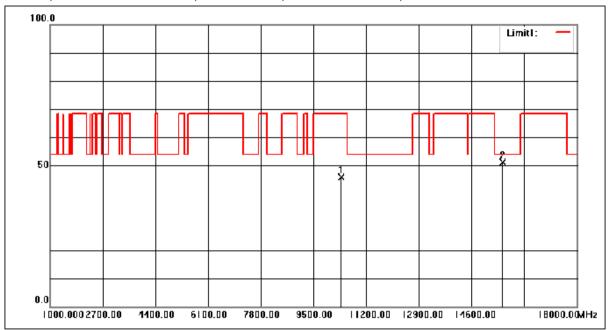


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
Γ	1	10400.000	48.30	-2.53	45.77	68.30	-22.53	peak
	2	15600.000	51.41	-0.35	51.06	54.00	-2.94	peak



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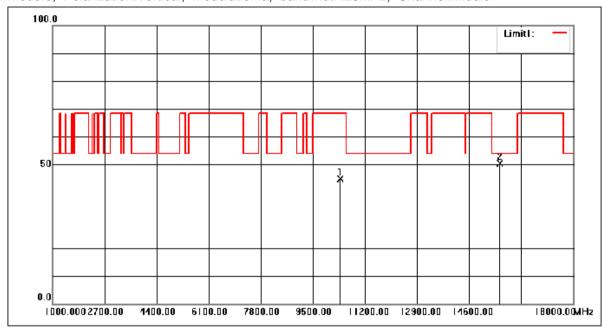


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Report No.: SZCR210300003004

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Mode:e; Polarization: Vertical; Modulation:a; bandwidth: 20MHz; Channel: middle



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
l		(MHz)	()	factor()	()	()	(dB)	
	1	10400.000	47.30	-2.53	44.77	68.30	-23.53	peak
	2	15600.000	50.63	-0.35	50.28	54.00	-3.72	peak



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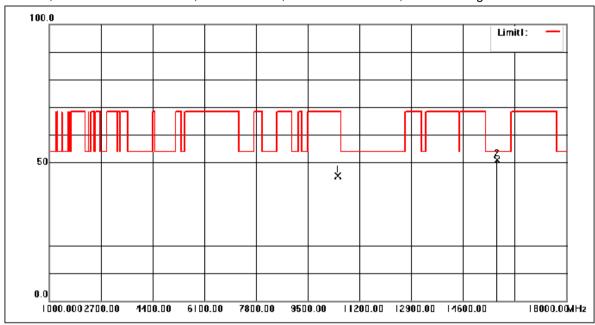


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
l		(MHz)	()	factor()	()	()	(dB)	
	1	10480.000	47.65	-2.41	45.24	68.30	-23.06	peak
	2	15720.000	51.22	-0.44	50.78	54.00	-3.22	peak



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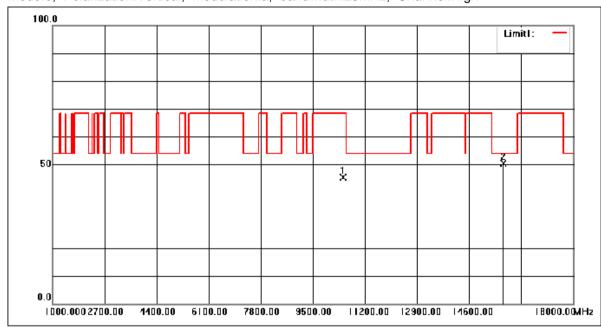


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Mode:e; Polarization: Vertical; Modulation:a; bandwidth: 20MHz; Channel: High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10480.000	47.89	-2.41	45.48	68.30	-22.82	peak
2	15720.000	50.91	-0.44	50.47	54.00	-3.53	peak



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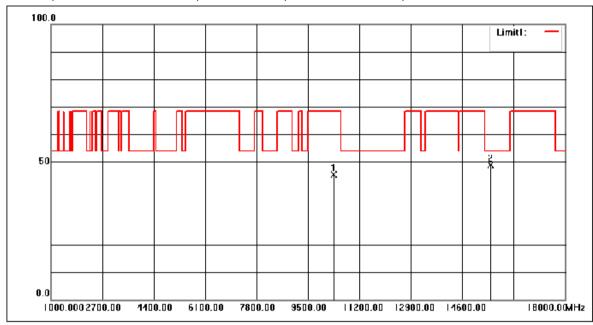


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	48.07	-2.59	45.48	68.30	-22.82	peak
2	15540.000	49.22	-0.30	48.92	54.00	-5.08	peak



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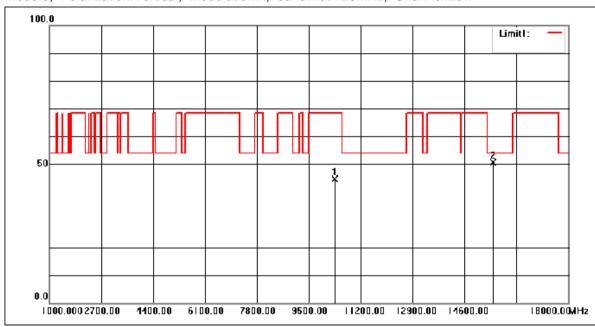


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10360.000	47.25	-2.59	44.66	68.30	-23.64	peak
2	15540.000	51.02	-0.30	50.72	54.00	-3.28	peak



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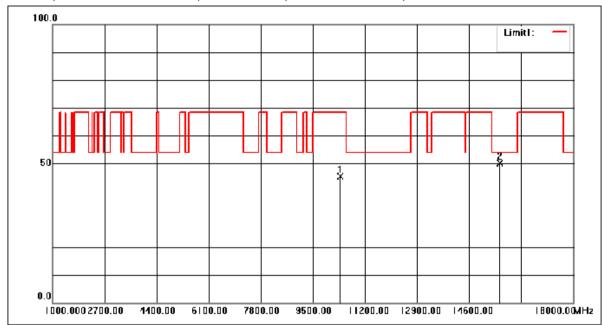


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Report No.: SZCR210300003004

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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



	No.	Frequency (MHz)	Reading	Correction factor()	Result	Limit	Margin (dB)	Remark
ł	1	10400.000	48.03	-2.53	45.50	68.30	-22.80	peak
	2	15600.000	50.48	-0.35	50.13	54.00	-3.87	peak



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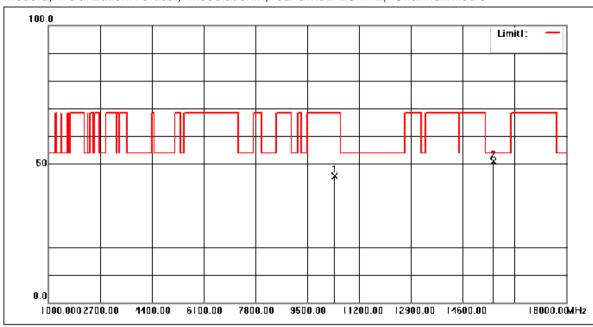


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	48.15	-2.53	45.62	68.30	-22.68	peak
2	15600.000	51.12	-0.35	50.77	54.00	-3.23	peak



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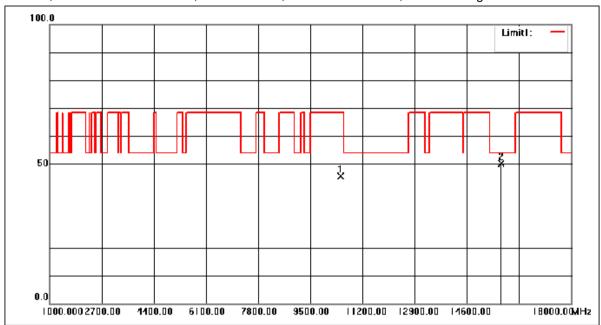


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	47.99	-2.41	45.58	68.30	-22.72	peak
2	15720.000	50.56	-0.44	50.12	54.00	-3.88	peak



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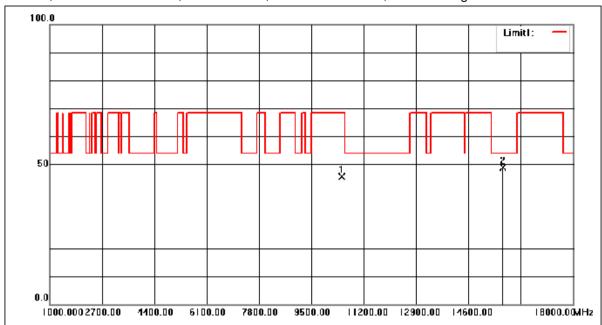


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
	1	10480.000	47.94	-2.41	45.53	68.30	-22.77	peak
Γ	2	15720.000	49.35	-0.44	48.91	54.00	-5.09	peak



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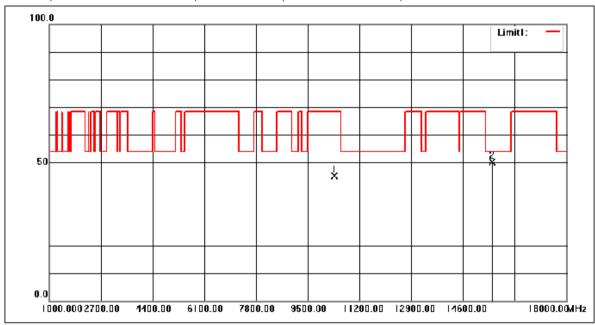


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



Ī	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
	1	10380.000	47.68	-2.56	45.12	68.30	-23.18	peak
	2	15570.000	50.39	-0.32	50.07	54.00	-3.93	peak



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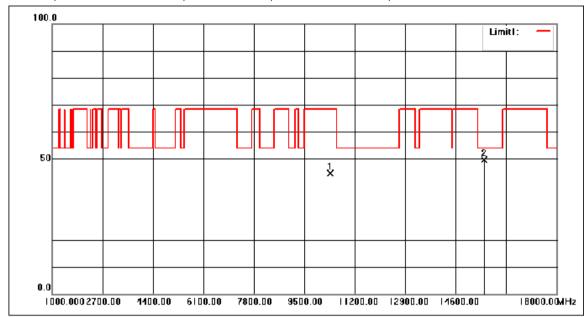


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	47.17	-2.56	44.61	68.30	-23.69	peak
2	15570.000	49.94	-0.32	49.62	54.00	-4.38	peak



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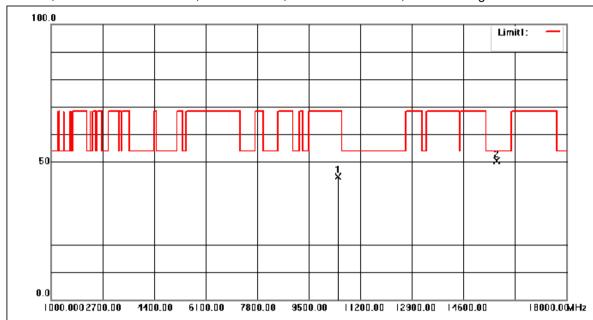


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10460.000	47.16	-2.44	44.72	68.30	-23.58	peak
2	15690.000	50.87	-0.42	50.45	54.00	-3.55	peak



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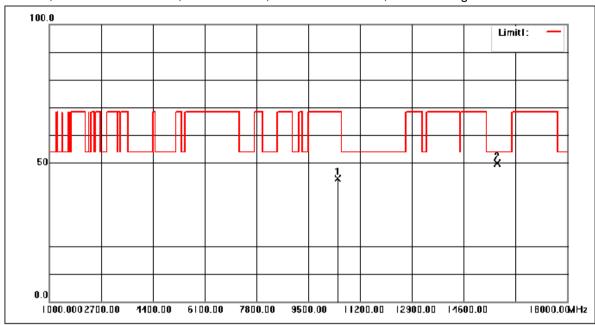


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
	1	10460.000	46.85	-2.44	44.41	68.30	-23.89	peak
ſ	2	15690.000	50.39	-0.42	49.97	54.00	-4.03	peak



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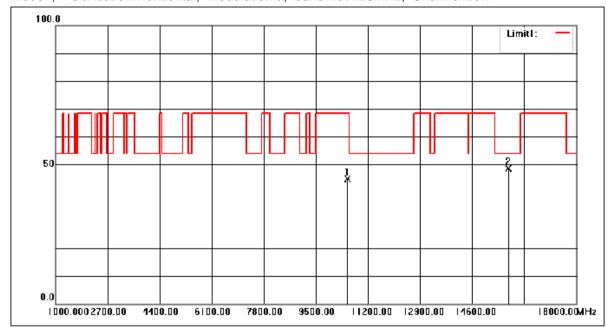


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Report No.: SZCR210300003004

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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	47.13	-2.33	44.80	68.30	-23.50	peak
2	15780.000	49.07	-0.49	48.58	54.00	-5.42	peak



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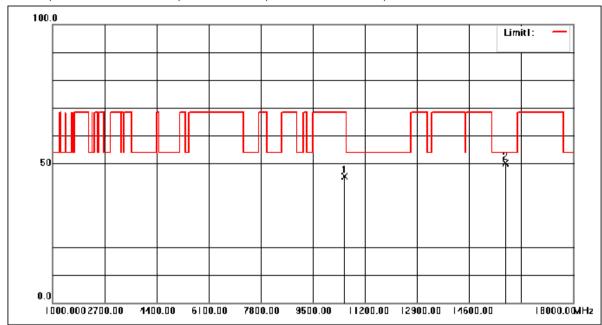


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	47.83	-2.33	45.50	68.30	-22.80	peak
2	15780.000	50.57	-0.49	50.08	54.00	-3.92	peak



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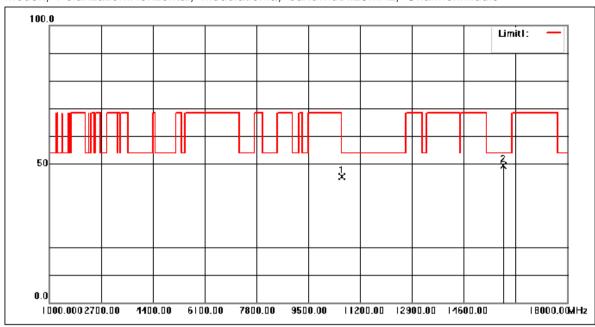


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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
-		(MHz)	()	factor()	()	()	(dB)	
	1	10600.000	47.59	-2.12	45.47	54.00	-8.53	peak
	2	15900.000	49.97	-0.58	49.39	54.00	-4.61	peak



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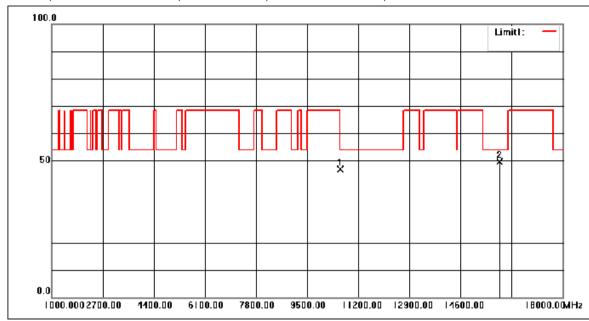


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	48.91	-2.12	46.79	54.00	-7.21	peak
2	15900.000	50.32	-0.58	49.74	54.00	-4.26	peak



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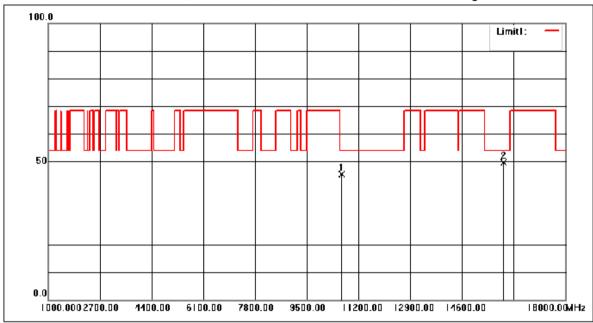


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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	47.48	-2.01	45.47	54.00	-8.53	peak
2	15960.000	50.32	-0.63	49.69	54.00	-4.31	peak



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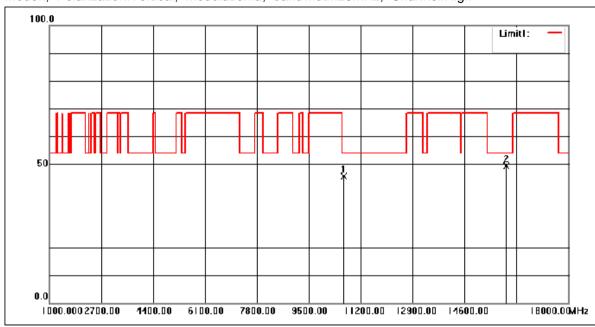


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10640.000	47.57	-2.01	45.56	54.00	-8.44	peak
2	15960.000	49.89	-0.63	49.26	54.00	-4.74	peak



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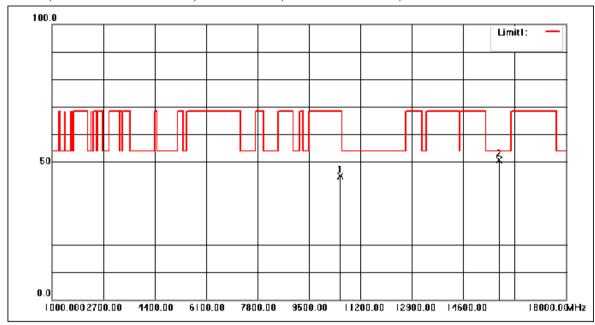


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading	Correction factor()	Result	Limit	Margin (dB)	Remark
1	10520.000	47.23	-2.33	44.90	68.30	-23.40	peak
2	15780.000	51.14	-0.49	50.65	54.00	-3.35	peak



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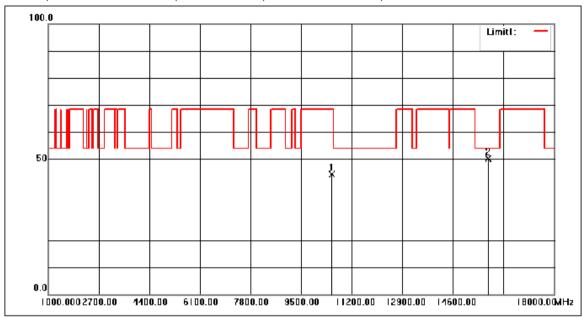


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	46.82	-2.33	44.49	68.30	-23.81	peak
2	15780.000	50.73	-0.49	50.24	54.00	-3.76	peak



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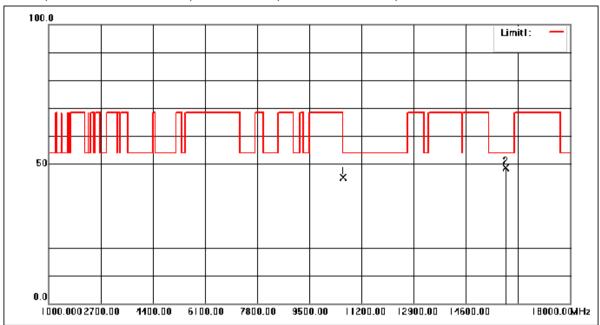


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	10600.000	47.35	-2.12	45.23	54.00	-8.77	peak
Ī	2	15900.000	49.10	-0.58	48.52	54.00	-5.48	peak



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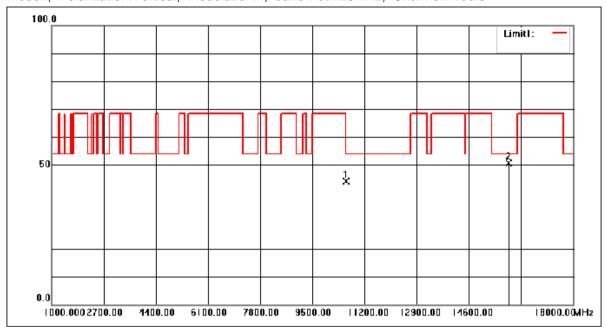


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10600.000	46.26	-2.12	44.14	54.00	-9.86	peak
2	15900.000	51.28	-0.58	50.70	54.00	-3.30	peak



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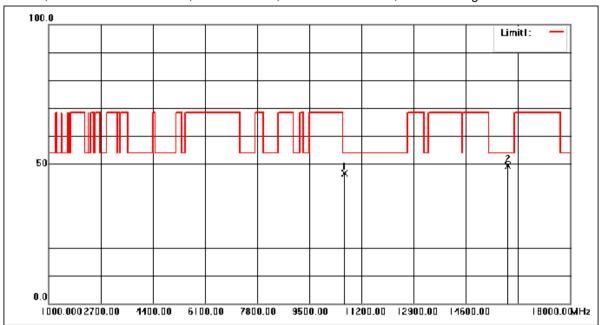


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10640.000	48.57	-2.01	46.56	54.00	-7.44	peak
2	15960.000	50.07	-0.63	49.44	54.00	-4.56	peak



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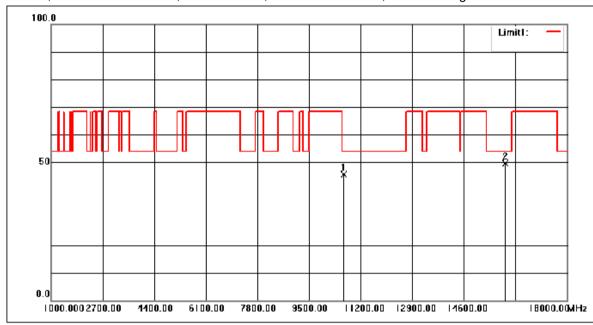


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	47.58	-2.01	45.57	54.00	-8.43	peak
2	15960.000	50.33	-0.63	49.70	54.00	-4.30	peak



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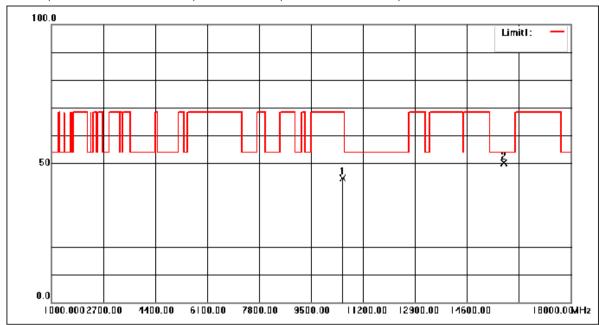


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



П	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	10540.000	46.97	-2.28	44.69	68.30	-23.61	peak
	2	15810.000	50.58	-0.51	50.07	54.00	-3.93	peak



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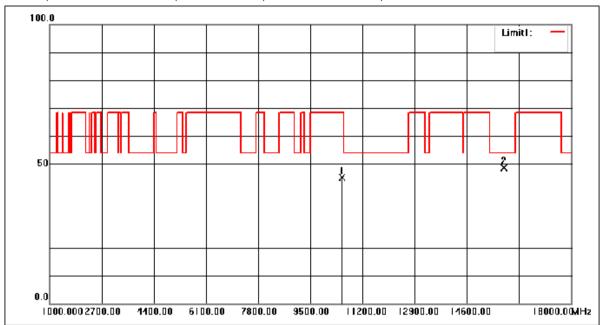


Shenzhen Branch

Report No.: SZCR210300003004

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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10540.000	47.42	-2.28	45.14	68.30	-23.16	peak
2	15810.000	49.22	-0.51	48.71	54.00	-5.29	peak



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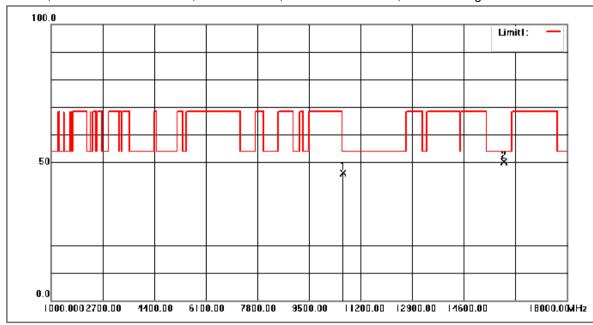


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	48.32	-2.07	46.25	54.00	-7.75	peak
2	15930.000	50.70	-0.61	50.09	54.00	-3.91	peak



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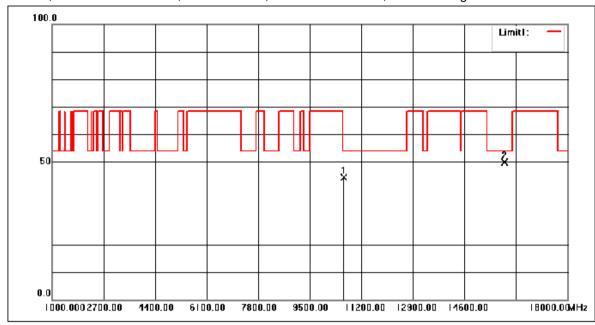


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	46.34	-2.07	44.27	54.00	-9.73	peak
2	15930.000	50.52	-0.61	49.91	54.00	-4.09	peak



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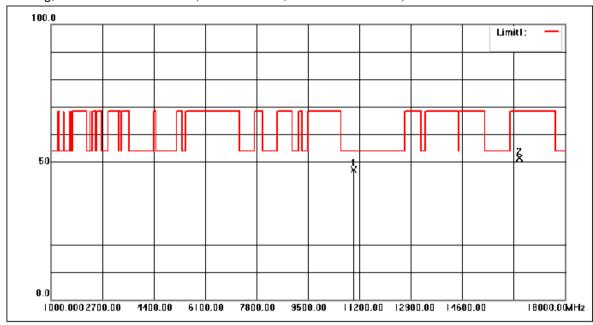


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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	48.17	-1.07	47.10	54.00	-6.90	peak
2	16500.000	51.04	0.28	51.32	68.30	-16.98	peak



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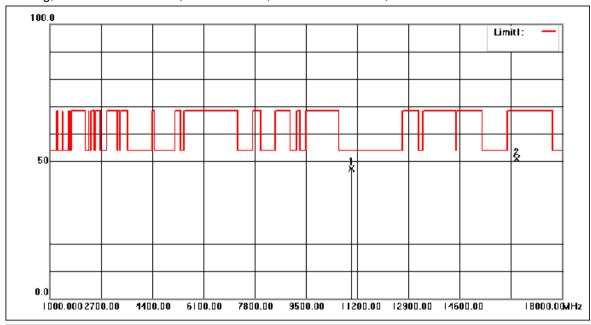


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11000.000	48.57	-1.07	47.50	54.00	-6.50	peak
2	16500.000	50.49	0.28	50.77	68.30	-17.53	peak



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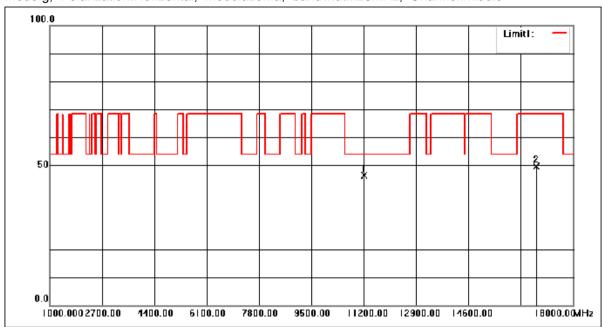


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Report No.: SZCR210300003004

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



	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
r	1	11200.000	47.91	-1.55	46.36	54.00	-7.64	peak
	2	16800.000	49.52	0.11	49.63	68.30	-18.67	peak



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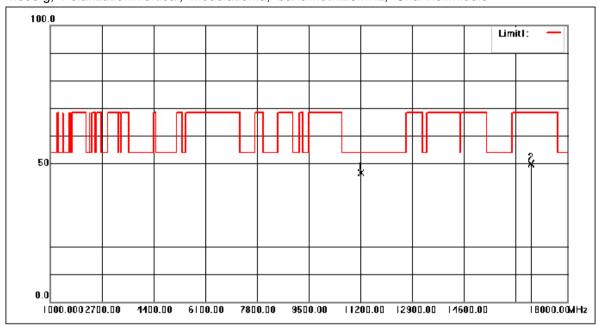


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



	No.	Frequency (MHz)	Reading	Correction factor()	Result	Limit	Margin	Remark
ŀ	1	11200.000	48.16	-1.55	46.61	54.00	(dB) -7.39	peak
Ī	2	16800.000	49.68	0.11	49.79	68.30	-18.51	peak



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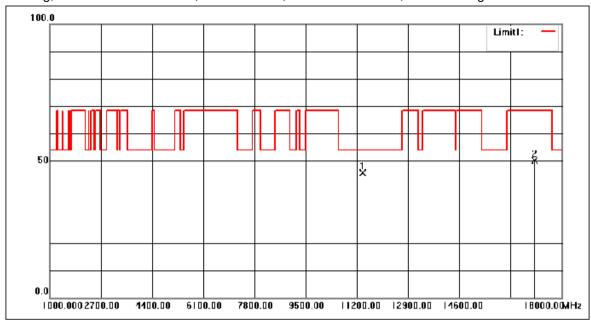


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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	47.59	-2.02	45.57	54.00	-8.43	peak
2	17100.000	50.16	-0.08	50.08	68.30	-18.22	peak



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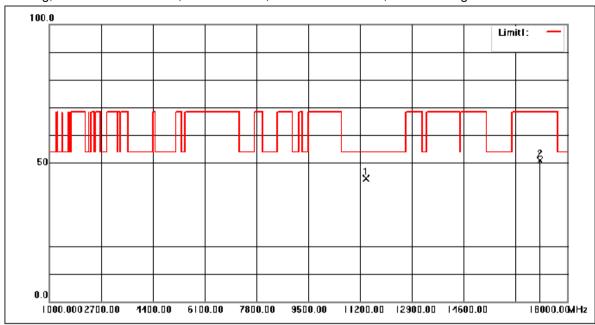


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	46.38	-2.02	44.36	54.00	-9.64	peak
2	17100.000	50.84	-0.08	50.76	68.30	-17.54	peak



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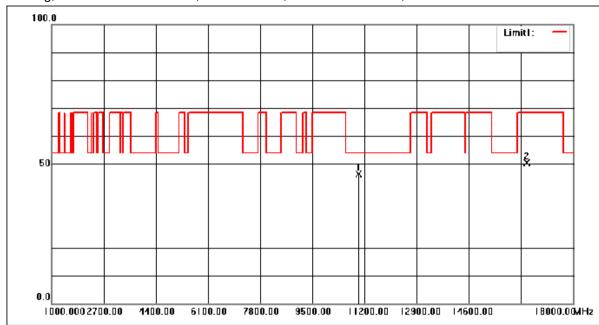


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	47.38	-1.07	46.31	54.00	-7.69	peak
2	16500.000	50.13	0.28	50.41	68.30	-17.89	peak



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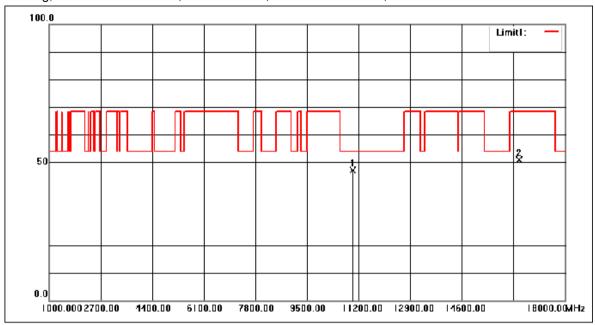


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11000.000	48.27	-1.07	47.20	54.00	-6.80	peak
2	16500.000	50.51	0.28	50.79	68.30	-17.51	peak



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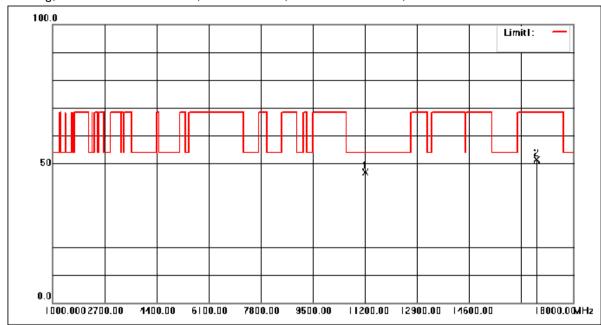


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	48.42	-1.55	46.87	54.00	-7.13	peak
2	16800.000	51.27	0.11	51.38	68.30	-16.92	peak



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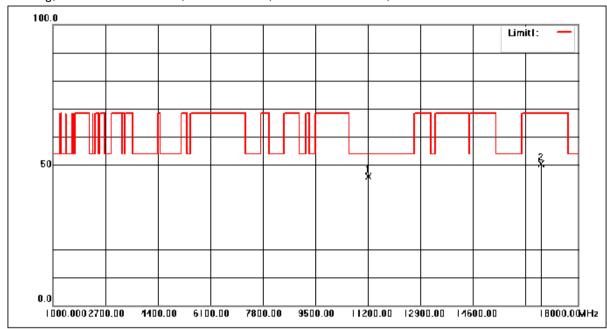


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	47.37	-1.55	45.82	54.00	-8.18	peak
2	16800.000	50.31	0.11	50.42	68.30	-17.88	peak



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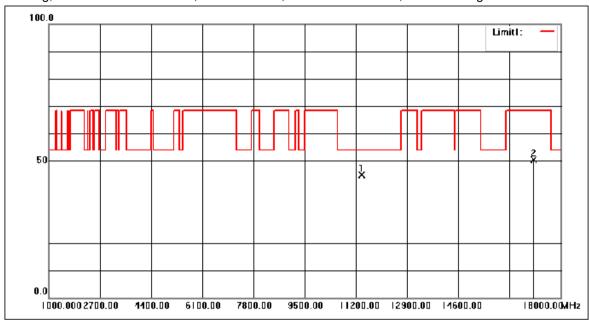


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Report No.: SZCR210300003004

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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	46.88	-2.02	44.86	54.00	-9.14	peak
2	17100.000	50.34	-0.08	50.26	68.30	-18.04	peak



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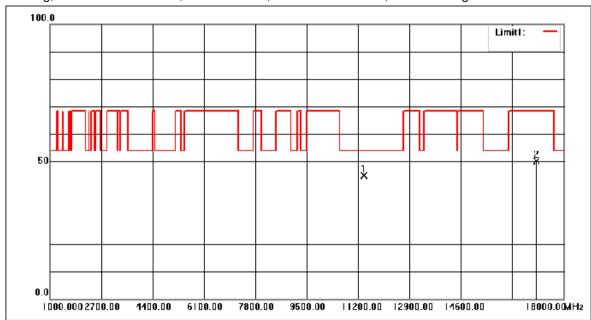


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading	Correction factor()	Result	Limit	Margin (dB)	Remark
1	11400.000	46.97	-2.02	44.95	54.00	-9.05	peak
2	17100.000	50.09	-0.08	50.01	68.30	-18.29	peak



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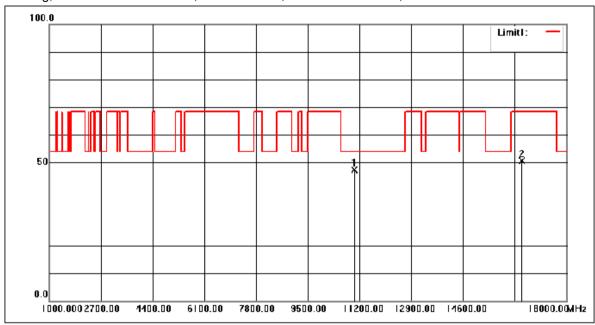


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
ľ	1	11020.000	48.41	-1.12	47.29	54.00	-6.71	peak
Ī	2	16530.000	50.49	0.26	50.75	68.30	-17.55	peak



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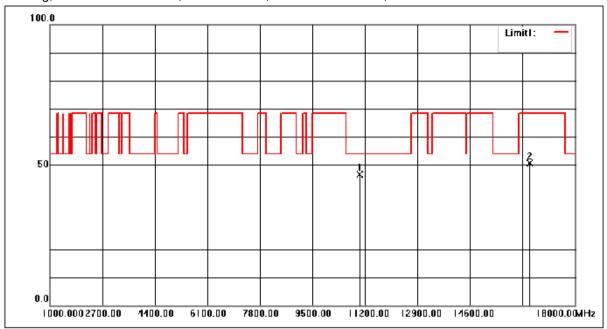


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11020.000	47.74	-1.12	46.62	54.00	-7.38	peak
2	16530.000	50.49	0.26	50.75	68.30	-17.55	peak



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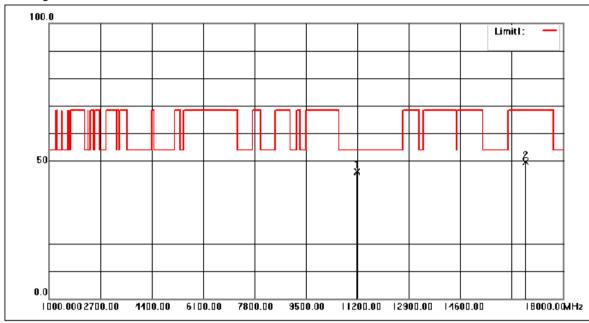


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11180.000	47.72	-1.50	46.22	54.00	-7.78	peak
2	16770.000	49.61	0.13	49.74	68.30	-18.56	peak



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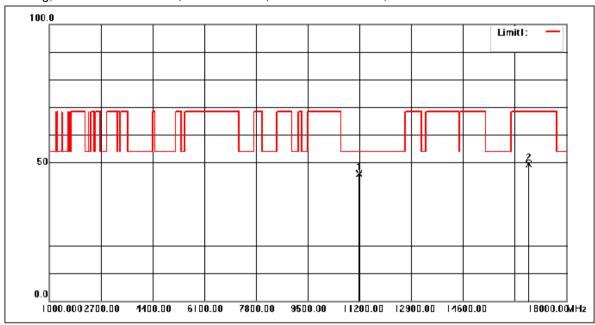


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11180.000	47.29	-1.50	45.79	54.00	-8.21	peak
2	16770.000	49.28	0.13	49.41	68.30	-18.89	peak



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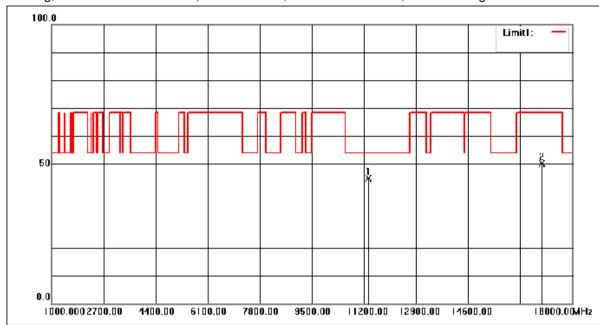


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11340.000	46.85	-1.88	44.97	54.00	-9.03	peak
2	17010.000	50.14	-0.01	50.13	68.30	-18.17	peak



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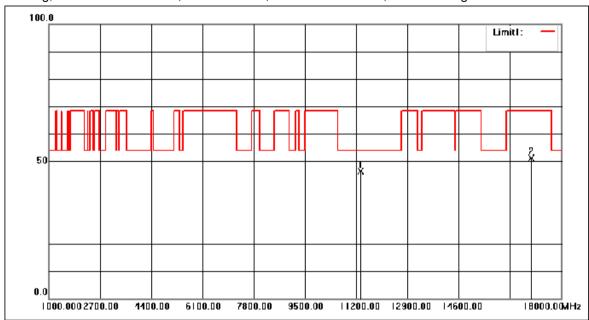


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	48.25	-1.88	46.37	54.00	-7.63	peak
2	17010.000	51.04	-0.01	51.03	68.30	-17.27	peak



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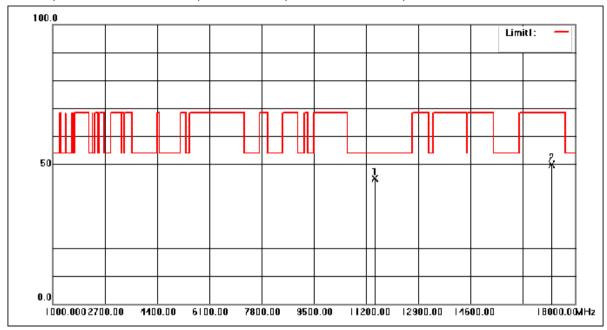


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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11490.000	47.22	-2.24	44.98	54.00	-9.02	peak
2	17235.000	50.17	-0.19	49.98	68.30	-18.32	peak



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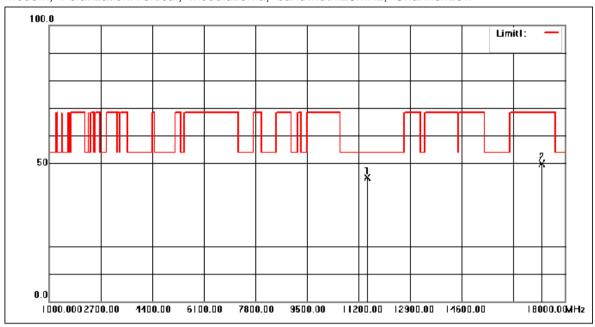


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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
L		(MHz)	()	factor()	()	()	(dB)	
	1	11490.000	47.22	-2.24	44.98	54.00	-9.02	peak
ſ	2	17235.000	50.06	-0.19	49.87	68.30	-18.43	peak



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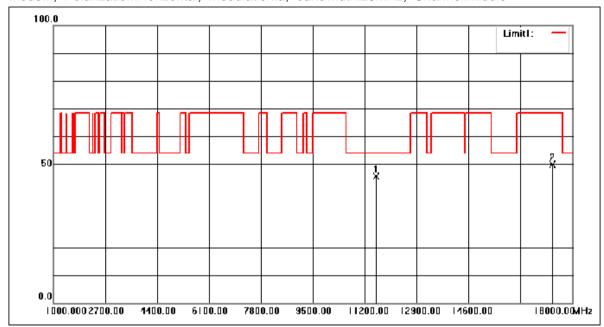


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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11570.000	47.96	-2.33	45.63	54.00	-8.37	peak
2	17355.000	50.12	-0.29	49.83	68.30	-18.47	peak



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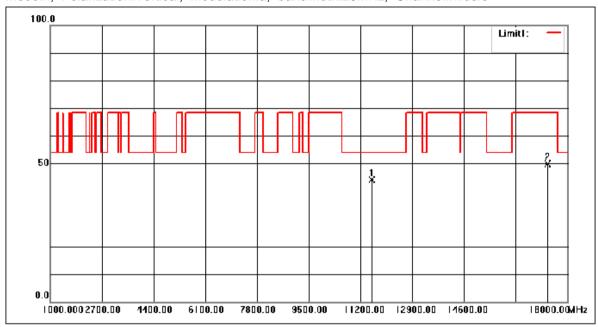


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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	46.37	-2.33	44.04	54.00	-9.96	peak
2	17355.000	50.27	-0.29	49.98	68.30	-18.32	peak



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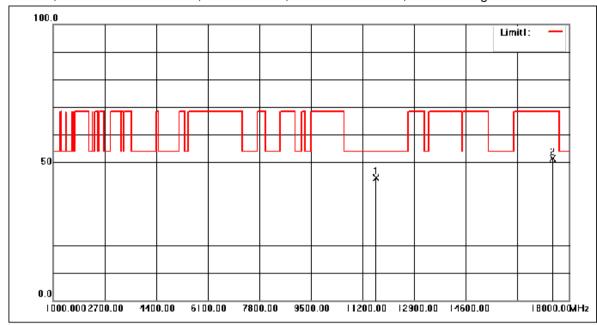


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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	46.73	-2.40	44.33	54.00	-9.67	peak
2	17475.000	51.76	-0.39	51.37	68.30	-16.93	peak



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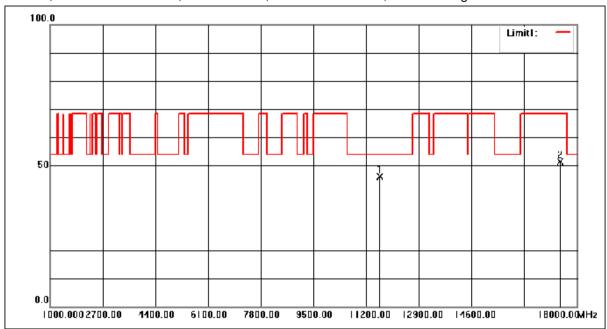


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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11650.000	48.54	-2.40	46.14	54.00	-7.86	peak
2	17475.000	51.78	-0.39	51.39	68.30	-16.91	peak



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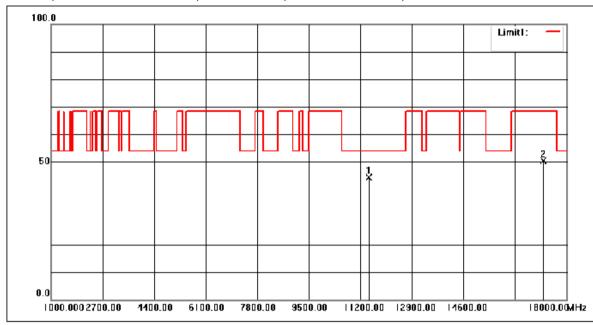


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	46.53	-2.24	44.29	54.00	-9.71	peak
2	17235.000	50.65	-0.19	50.46	68.30	-17.84	peak



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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11490.000	46.38	-2.24	44.14	54.00	-9.86	peak
2	17235.000	50.99	-0.19	50.80	68.30	-17.50	peak



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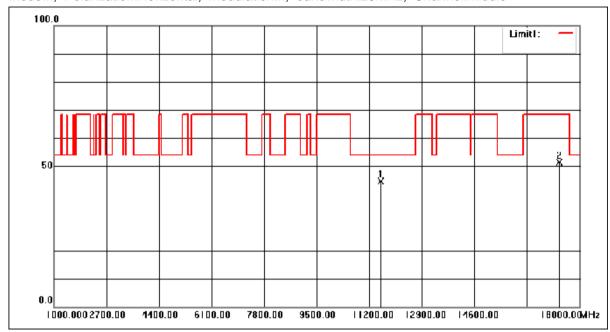


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	0	factor()	()	()	(dB)	
1	11570.000	46.97	-2.33	44.64	54.00	-9.36	peak
2	17355.000	51.79	-0.29	51.50	68.30	-16.80	peak



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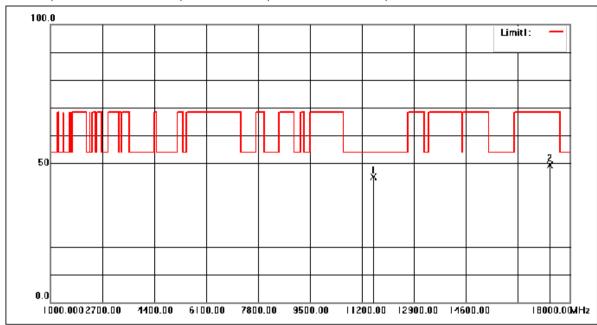


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11570.000	47.58	-2.33	45.25	54.00	-8.75	peak
2	17355.000	49.77	-0.29	49.48	68.30	-18.82	peak



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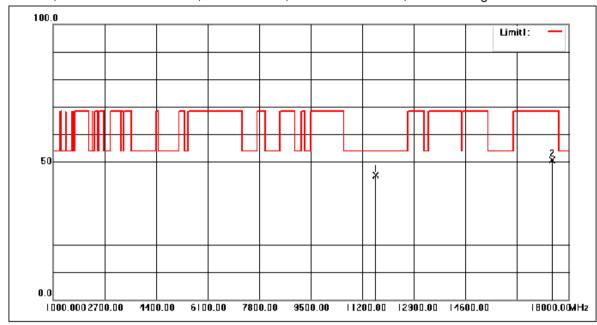


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading	Correction factor()	Result	Limit	Margin (dB)	Remark
1	11650.000	47.44	-2.40	45.04	54.00	-8.96	peak
2	17475.000	50.91	-0.39	50.52	68.30	-17.78	peak



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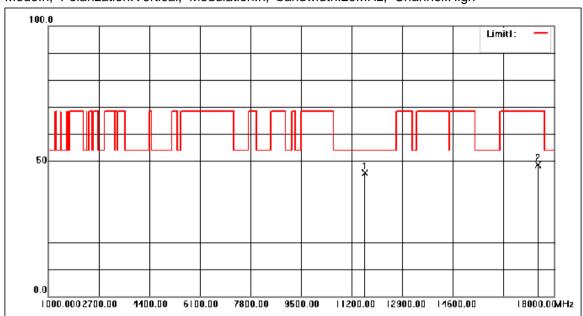


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



- 1	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
•	1	11650.000	47.98	-2.40	45.58	54.00	-8.42	peak
4	2	17475.000	49.02	-0.39	48.63	68.30	-19.67	peak



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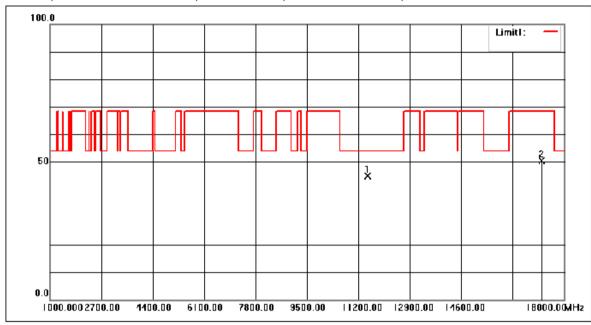


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	47.15	-2.27	44.88	54.00	-9.12	peak
2	17265.000	50.52	-0.22	50.30	68.30	-18.00	peak



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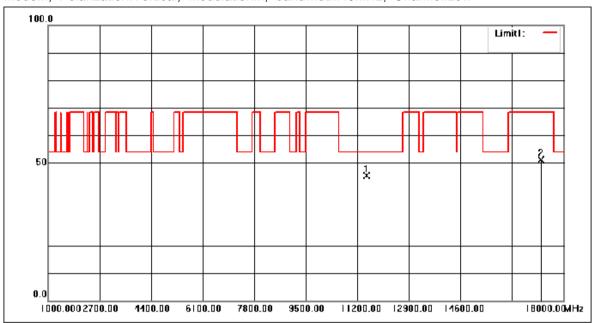


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	47.57	-2.27	45.30	54.00	-8.70	peak
2	17265.000	51.24	-0.22	51.02	68.30	-17.28	peak



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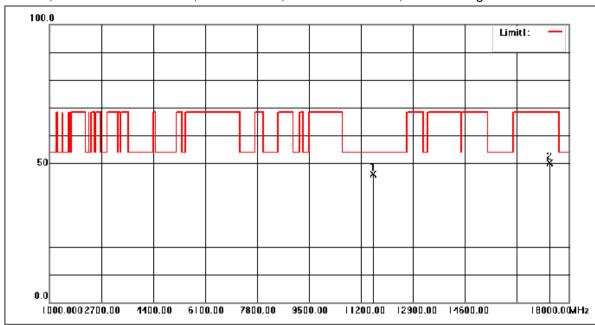


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11590.000	48.43	-2.34	46.09	54.00	-7.91	peak
Ī	2	17385.000	50.38	-0.32	50.06	68.30	-18.24	peak



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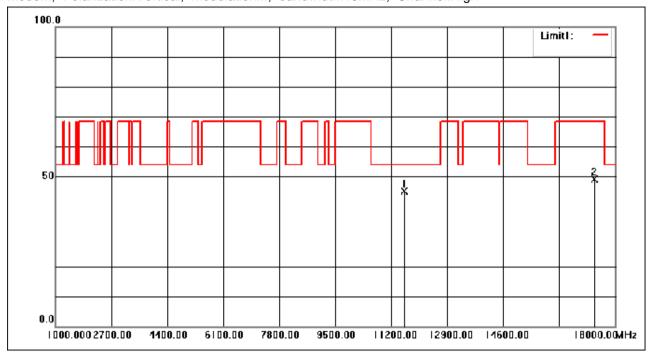


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11590.000	47.57	-2.34	45.23	54.00	-8.77	peak
2	17385.000	49.52	-0.32	49.20	68.30	-19.10	peak



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7.8 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.407(b)

Test Method: KDB 789033 D02 II G

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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7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1004 mbar

Test mode: e:TX mode (Band 1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

in the report.

f:TX mode (Band 2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



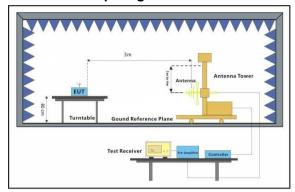


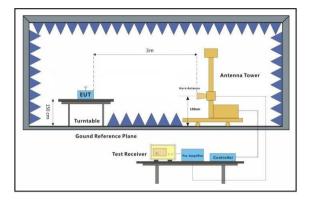
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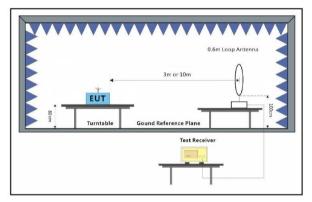
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7.8.2 Test Setup Diagram









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7.8.3 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, guasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

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



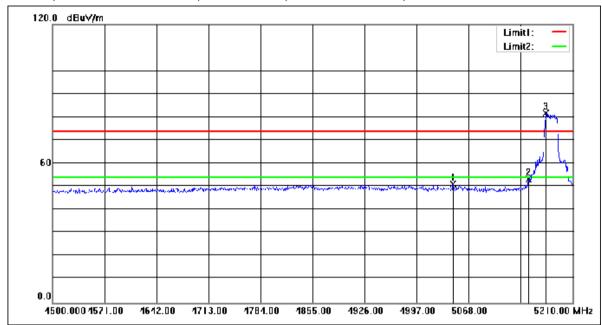


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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5046.700	50.16	0.99	51.15	74.00	-22.85	peak
2	5150.000	52.06	1.05	53.11	74.00	-20.89	peak
3	5173.790	80.70	1.07	81.77	74.00	7.77	peak



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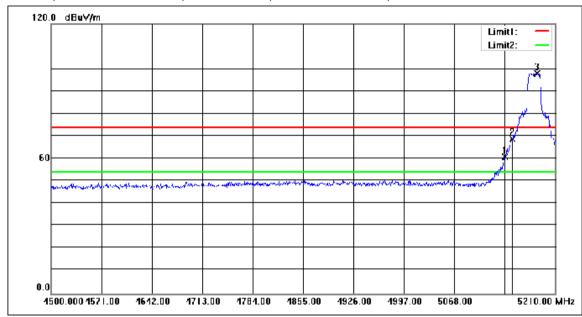


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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.000	59.71	1.05	60.76	74.00	-13.24	peak
2	5150.000	67.82	1.05	68.87	74.00	-5.13	peak
3	5185.150	96.99	1.07	98.06	74.00	24.06	peak



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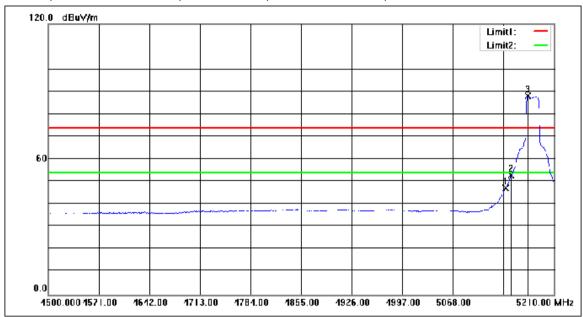


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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	46.30	1.05	47.35	54.00	-6.65	AVG
2	5150.000	51.81	1.05	52.86	54.00	-1.14	AVG
3	5173.790	86.99	1.07	88.06	54.00	34.06	AVG



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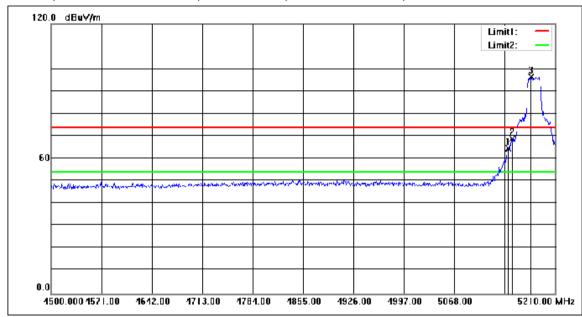


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5143.970	63.73	1.05	64.78	74.00	-9.22	peak
2	5150.000	67.66	1.05	68.71	74.00	-5.29	peak
3	5176.630	95.31	1.07	96.38	74.00	22.38	peak



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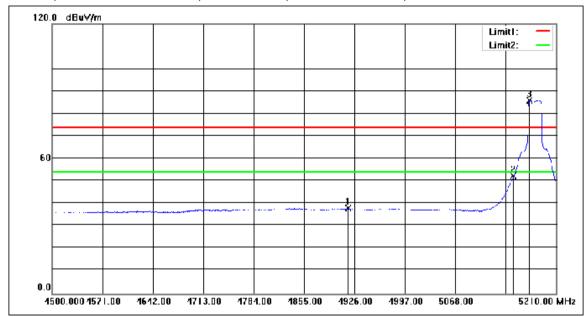


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4916.770	37.05	0.77	37.82	54.00	-16.18	AVG
2	5150.000	51.19	1.05	52.24	54.00	-1.76	AVG
3	5172.370	85.00	1.07	86.07	54.00	32.07	AVG



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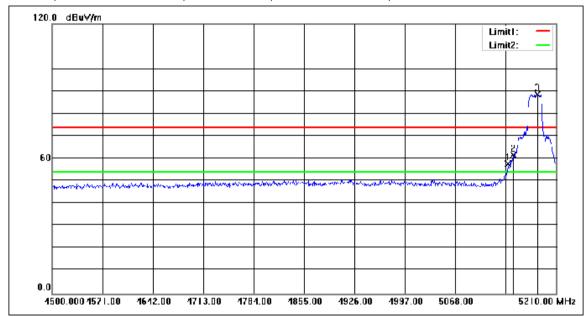


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5142.550	56.57	1.05	57.62	74.00	-16.38	peak
2	5150.000	60.72	1.05	61.77	74.00	-12.23	peak
3	5183.730	87.50	1.07	88.57	74.00	14.57	peak



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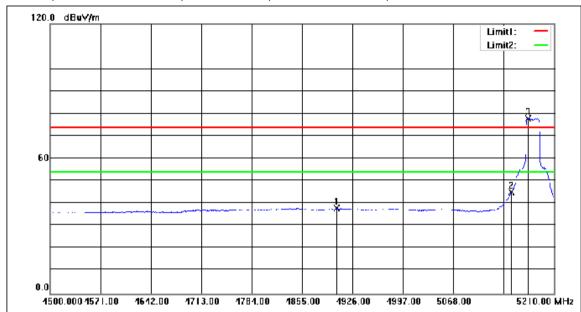


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4903.280	37.13	0.74	37.87	54.00	-16.13	AVG
2	5150.000	44.25	1.05	45.30	54.00	-8.70	AVG
3	5173.790	76.88	1.07	77.95	54.00	23.95	AVG



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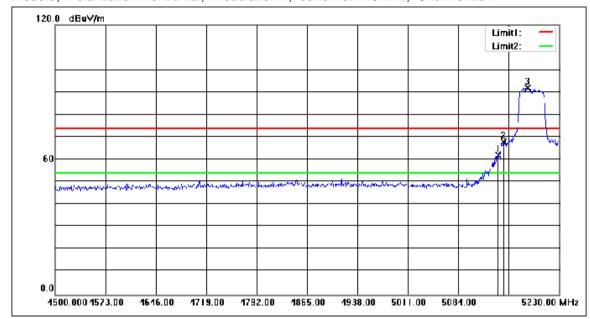


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5141.670	60.94	1.05	61.99	74.00	-12.01	peak
2	5150.000	66.86	1.05	67.91	74.00	-6.09	peak
3	5184.740	90.85	1.07	91.92	74.00	17.92	peak



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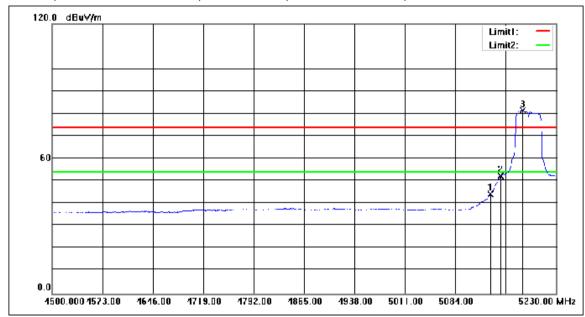


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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5135.100	43.25	1.04	44.29	54.00	-9.71	AVG
2	5150.000	51.23	1.05	52.28	54.00	-1.72	AVG
3	5181.820	80.38	1.07	81.45	54.00	27.45	AVG



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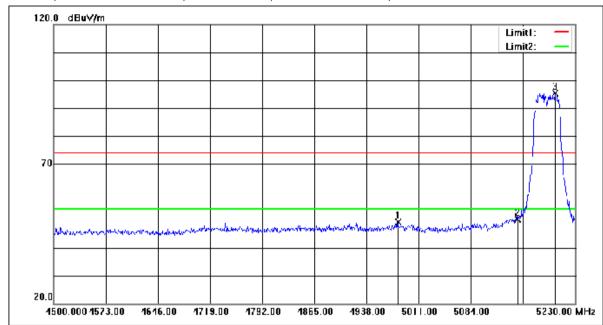


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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4981.800	48.24	0.92	49.16	74.00	-24.84	peak
2	5150.000	48.99	1.05	50.04	74.00	-23.96	peak
3	5202.260	94.24	1.09	95.33	74.00	21.33	peak



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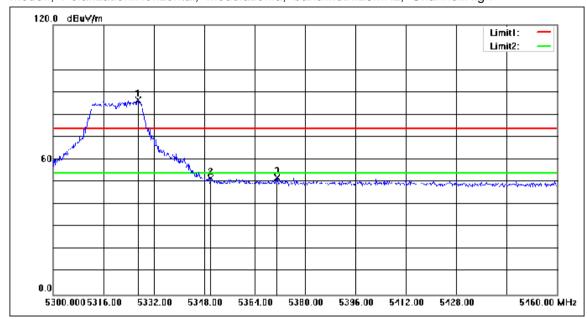


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Mode:f; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5326.880	85.52	1.16	86.68	74.00	12.68	peak
2	5350.000	50.47	1.18	51.65	74.00	-22.35	peak
3	5371.200	50.84	1.19	52.03	74.00	-21.97	peak



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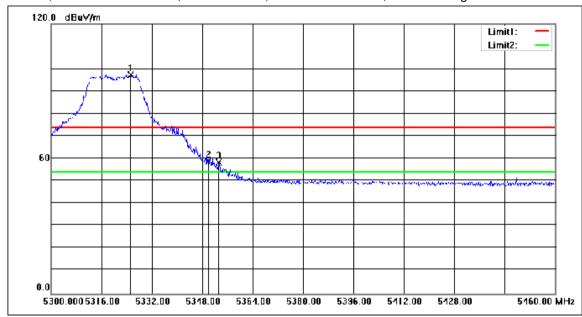


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Mode:f; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5325.280	96.20	1.16	97.36	74.00	23.36	peak
2	5350.000	57.84	1.18	59.02	74.00	-14.98	peak
3	5353.280	57.20	1.18	58.38	74.00	-15.62	peak



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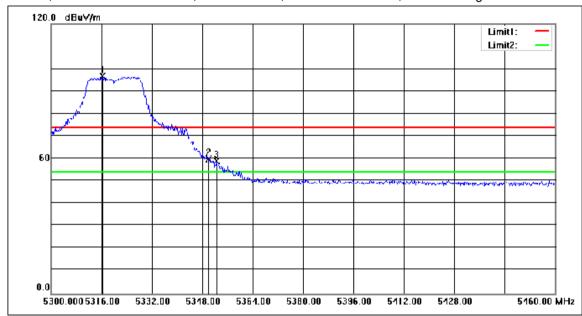


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Report No.: SZCR210300003004

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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5316.320	95.49	1.16	96.65	74.00	22.65	peak
2	5350.000	58.52	1.18	59.70	74.00	-14.30	peak
3	5352.640	57.85	1.18	59.03	74.00	-14.97	peak



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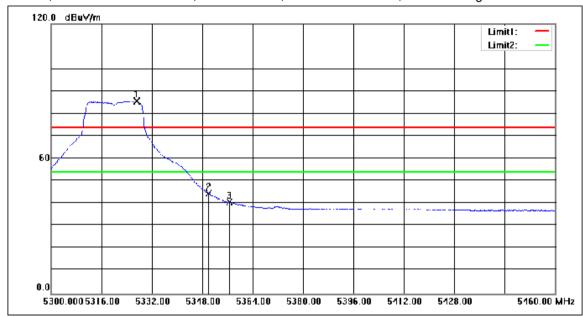


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5327.200	84.62	1.16	85.78	54.00	31.78	AVG
2	5350.000	43.29	1.18	44.47	54.00	-9.53	AVG
3	5356.640	39.46	1.18	40.64	54.00	-13.36	AVG



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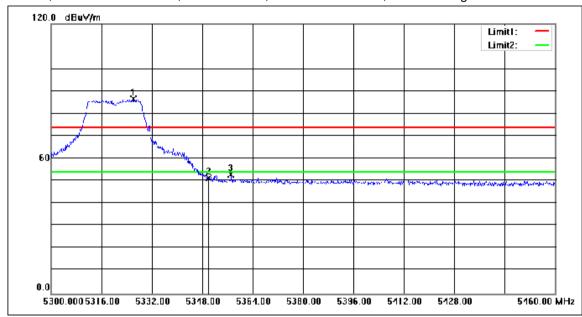


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5326.080	85.33	1.16	86.49	74.00	12.49	peak
2	5350.000	50.26	1.18	51.44	74.00	-22.56	peak
3	5357.120	51.81	1.18	52.99	74.00	-21.01	peak



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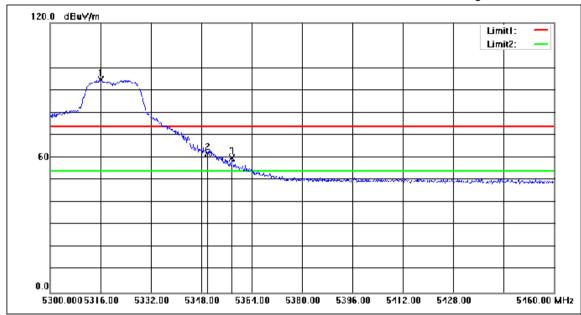


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5316.000	93.61	1.16	94.77	74.00	20.77	peak
2	5350.000	60.84	1.18	62.02	74.00	-11.98	peak
3	5357.760	58.58	1.18	59.76	74.00	-14.24	peak



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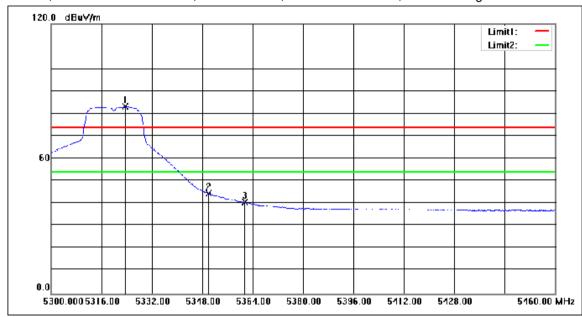


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Mode:f; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5323.520	82.05	1.16	83.21	54.00	29.21	AVG
2	5350.000	43.24	1.18	44.42	54.00	-9.58	AVG
3	5361.600	39.37	1.18	40.55	54.00	-13.45	AVG



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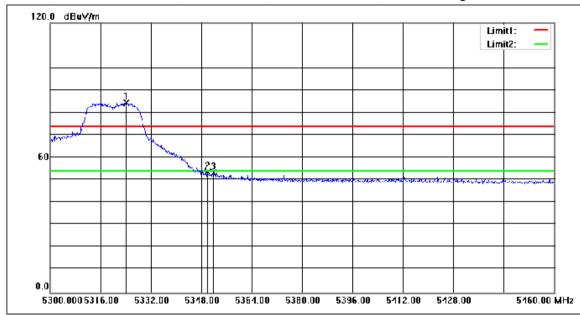


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Mode:f; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5324.160	83.31	1.16	84.47	74.00	10.47	peak
2	5350.000	52.51	1.18	53.69	74.00	-20.31	peak
3	5351.840	52.06	1.18	53.24	74.00	-20.76	peak



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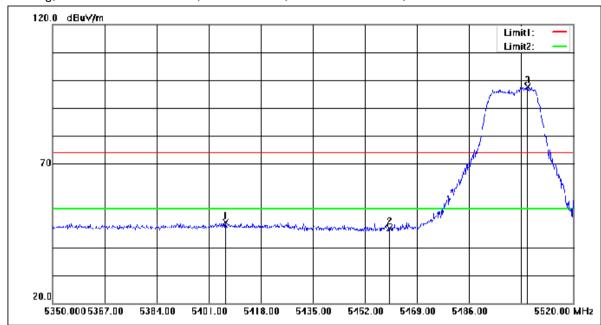


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Mode:g; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5406.610	47.75	1.21	48.96	74.00	-25.04	peak
2	5460.000	45.63	1.25	46.88	74.00	-27.12	peak
3	5505.210	96.21	1.30	97.51	74.00	23.51	peak



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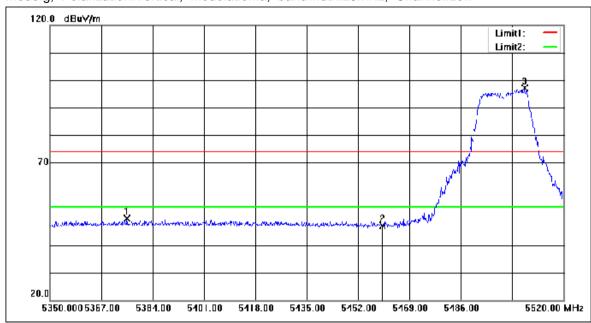


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Mode:g; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5375.500	48.34	1.19	49.53	74.00	-24.47	peak
2	5460.000	45.94	1.25	47.19	74.00	-26.81	peak
3	5507.080	95.71	1.31	97.02	74.00	23.02	peak



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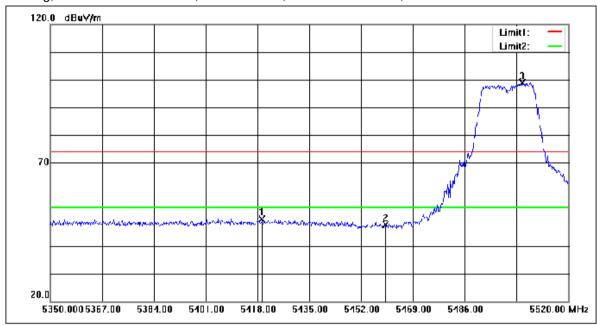


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5419.530	48.47	1.22	49.69	74.00	-24.31	peak
2	5460.000	46.50	1.25	47.75	74.00	-26.25	peak
3	5504.870	97.57	1.30	98.87	74.00	24.87	peak



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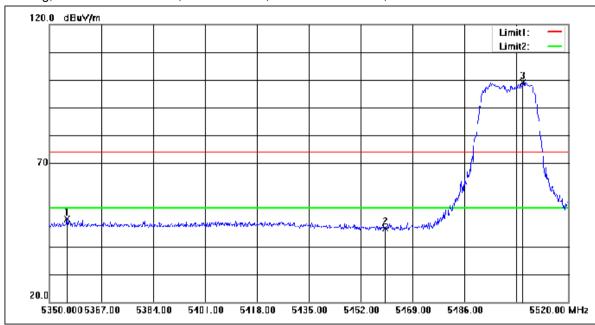


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5355.780	48.82	1.18	50.00	74.00	-24.00	peak
2	5460.000	45.49	1.25	46.74	74.00	-27.26	peak
3	5505.210	97.94	1.30	99.24	74.00	25.24	peak



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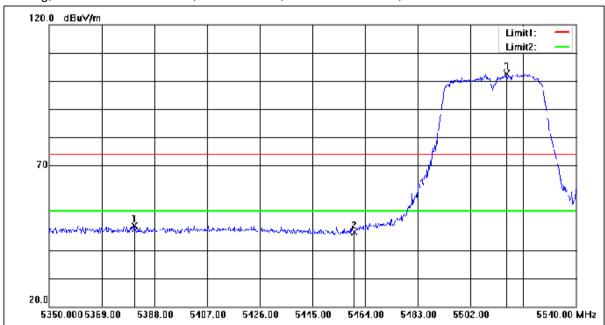


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Mode:g; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5380.780	47.50	1.20	48.70	74.00	-25.30	peak
2	5460.000	45.23	1.25	46.48	74.00	-27.52	peak
3	5514.920	101.22	1.36	102.58	74.00	28.58	peak



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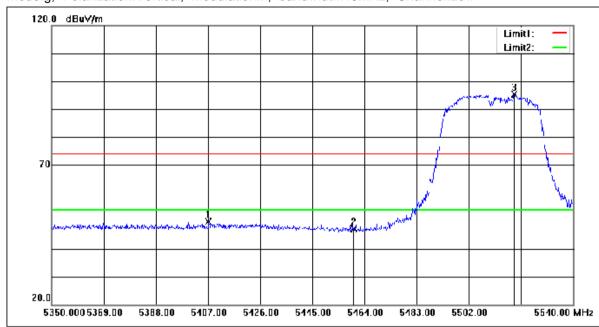


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Mode:g; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5407.190	48.36	1.21	49.57	74.00	-24.43	peak
2	5460.000	45.96	1.25	47.21	74.00	-26.79	peak
3	5518.530	94.03	1.39	95.42	74.00	21.42	peak



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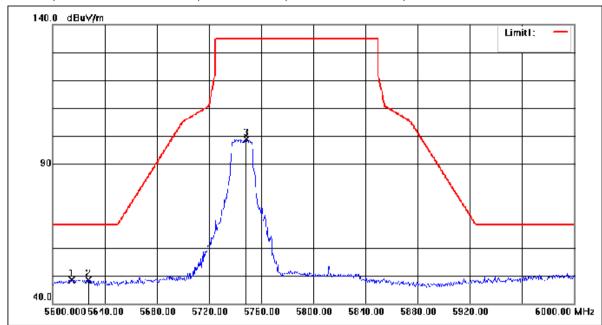


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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5614.800	46.42	2.00	48.42	68.20	-19.78	peak
2	5627.200	46.19	2.07	48.26	68.20	-19.94	peak
3	5748.400	96.10	2.84	98.94	135.00	-36.06	peak



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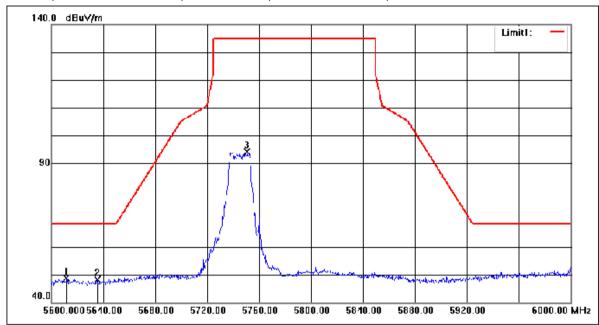


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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency		Correction		Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5611.600	46.55	1.98	48.53	68.20	-19.67	peak
2	5635.200	45.93	2.12	48.05	68.20	-20.15	peak
3	5750.800	91.15	2.86	94.01	135.00	-40.99	peak



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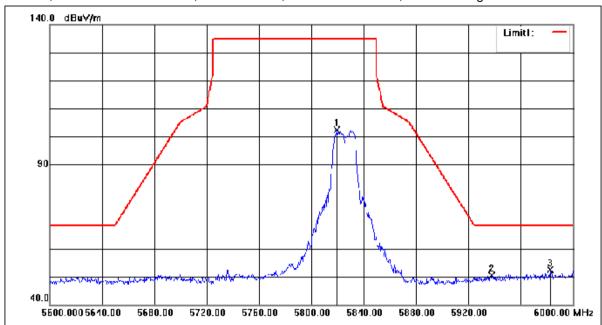


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Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5819.600	99.04	3.29	102.33	135.00	-32.67	peak
2	5938.000	46.36	4.04	50.40	68.20	-17.80	peak
3	5982.800	47.95	4.32	52.27	68.20	-15.93	peak



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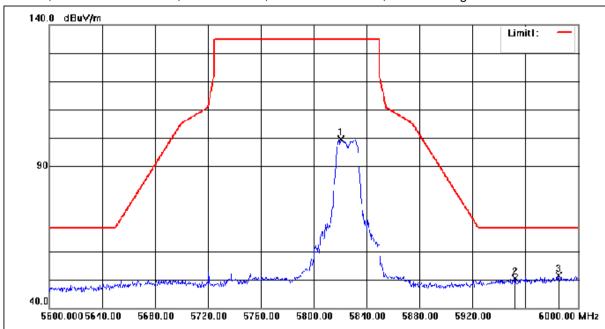


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Mode:h; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5820.400	96.44	3.29	99.73	135.00	-35.27	peak
2	5952.400	46.14	4.13	50.27	68.20	-17.93	peak
3	5985.200	46.99	4.34	51.33	68.20	-16.87	peak



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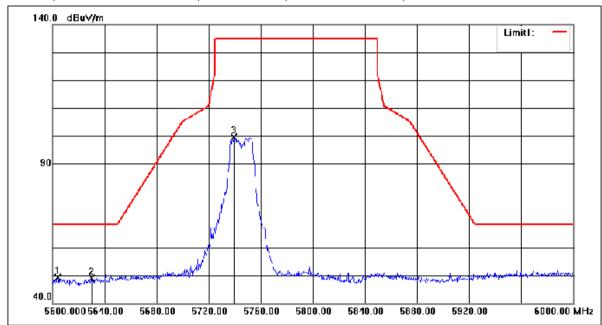


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5604.000	47.08	1.93	49.01	68.20	-19.19	peak
2	5630.000	46.74	2.09	48.83	68.20	-19.37	peak
3	5739.200	96.79	2.78	99.57	135.00	-35.43	peak



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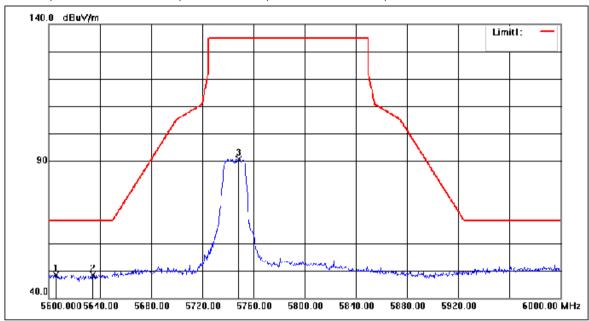


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5605.600	46.40	1.94	48.34	68.20	-19.86	peak
2	5634.400	46.35	2.12	48.47	68.20	-19.73	peak
3	5748.400	87.87	2.84	90.71	135.00	-44.29	peak



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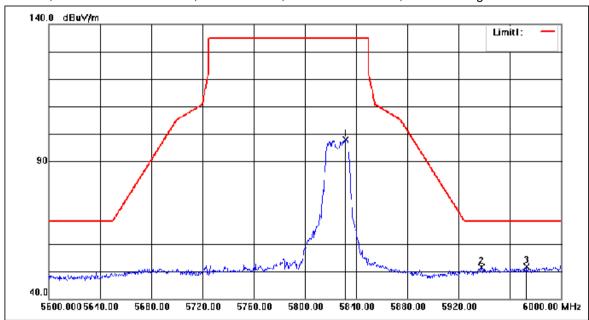


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5831.600	94.61	3.37	97.98	135.00	-37.02	peak
2	5938.000	47.37	4.04	51.41	68.20	-16.79	peak
3	5973.200	47.26	4.26	51.52	68.20	-16.68	peak



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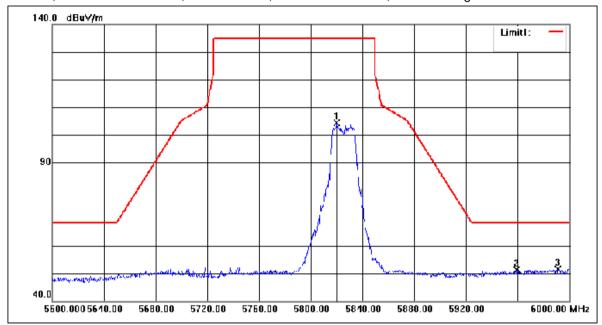


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5820.000	101.19	3.29	104.48	135.00	-30.52	peak
2	5959.200	46.96	4.17	51.13	68.20	-17.07	peak
3	5991.200	46.98	4.37	51.35	68.20	-16.85	peak



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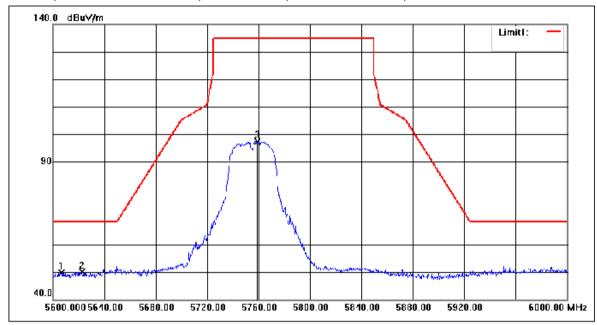


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5606.800	47.74	1.94	49.68	68.20	-18.52	peak
2	5622.400	47.93	2.04	49.97	68.20	-18.23	peak
3	5759.200	94.56	2.91	97.47	135.00	-37.53	peak



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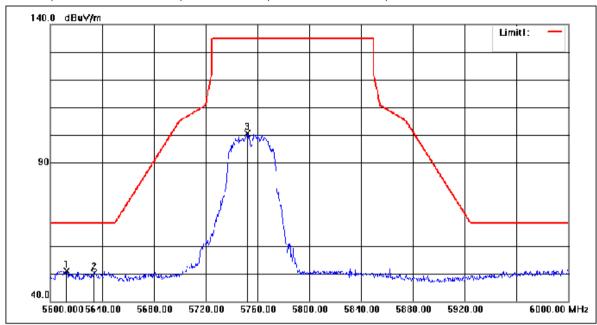


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5612.400	48.81	1.98	50.79	68.20	-17.41	peak
2	5633.600	48.14	2.11	50.25	68.20	-17.95	peak
3	5752.400	97.68	2.87	100.55	135.00	-34.45	peak



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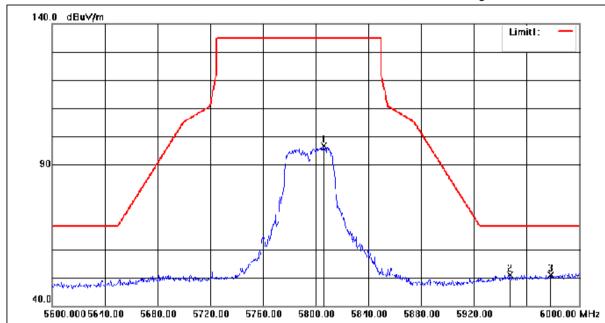


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Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5806.000	93.35	3.20	96.55	135.00	-38.45	peak
2	5947.200	46.75	4.10	50.85	68.20	-17.35	peak
3	5978.400	46.57	4.29	50.86	68.20	-17.34	peak



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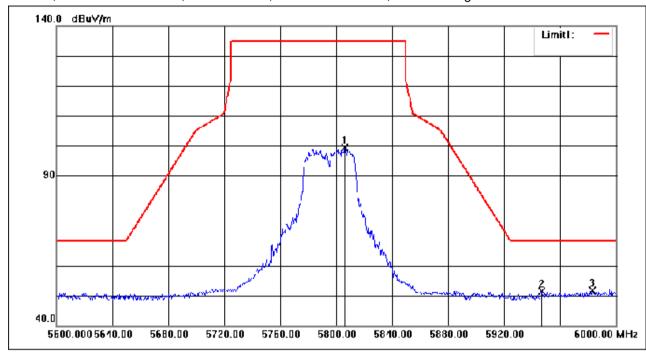


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Mode:h; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5806.000	96.11	3.20	99.31	135.00	-35.69	peak
2	5946.800	47.28	4.09	51.37	68.20	-16.83	peak
3	5983.200	47.26	4.32	51.58	68.20	-16.62	peak



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7.9 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

The frequency tolerance shall be maintained within the band of operation Limit:

> frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 25 Humidity: 49 % RH °C Atmospheric Pressure: 1002 mbar

Test mode: e:TX mode (Band 1) 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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

in the report.

f:TX mode (Band 2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



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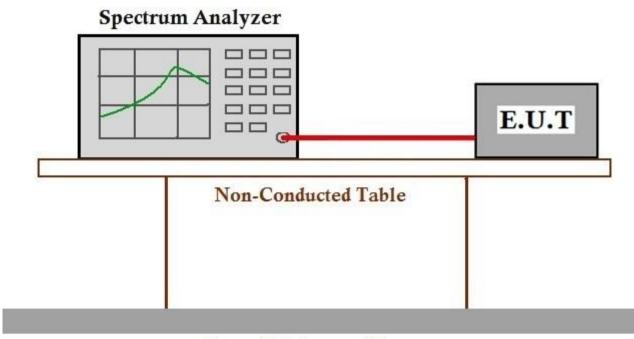


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7.9.2 Test Setup Diagram



Ground Reference Plane

7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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7.10 99% Bandwidth

Test Requirement RSS-Gen Section 6.7
Test Method: ANSI C63.10 Section 6.9.3

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C Humidity: 49 % RH Atmospheric Pressure: 1004 mbar

Test mode: e:TX mode (Band 1)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded

in the report.

f:TX mode (Band 2A)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

g:TX mode (Band 2C)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @; Only the data of worst case is recorded in the report.

h:TX mode (Band 3)_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 @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); Only the data of worst case is recorded in the report.



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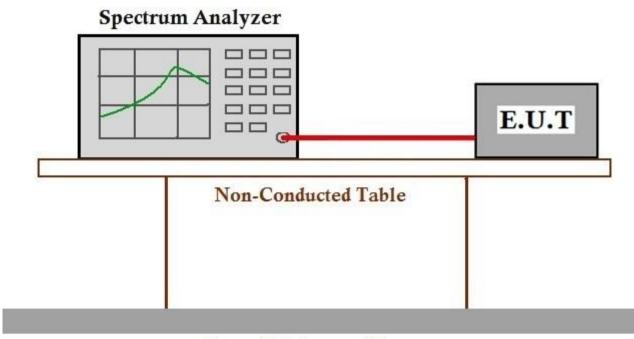


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7.10.2 Test Setup Diagram



Ground Reference Plane

7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix D for SZCR210300003004



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8 **Test Setup Photographs**

Refer to the < Test Setup photos-FCC>.

9 **EUT Constructional Details**

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

- End of the Report -



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