

Report No.: SHEM200700566002

Page: 1 of 233

TEST REPORT

Application No.: SHEM2007005660CR

FCC ID: UCZ-B451AJ-Z **IC:** 8575A-B451AJZ

Applicant: LOREX Technology Inc.

Address of Applicant: 250 Royal Crest Court, Markham, ON L3R 3S1 Canada

Manufacturer: Lorex Technology Inc.

Address of Manufacturer: 250 Royal crest Court, Markham, L3R 3S1 Canada

Equipment Under Test (EUT):

EUT Name: 2K QHD Video Doorbell

Model No.: B451AJ-Z Trade mark: LOREX

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

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5, March 2019 Amendment 1

Date of Receipt: 2020-07-15

Date of Test: 2020-07-14 to 2020-09-02

Date of Issue: 2020-09-04

Test Result:

parlan 2han

Parlam Zhan E&E Section Manager

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, recently the prosecution of the content o

NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编: 201612 t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

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



Report No.: SHEM200700566002

Page: 2 of 233

Revision Record					
Version Description Date Remark					
00	Original	2020-09-04	/		

Authorized for issue by:		
	hichael Nil	
	Micheal Niu / Project Engineer	
	Darlam Zhan	
	Parlam Zhan / Reviewer	





Page: 3 of 233

2 Test Summary

Radio Spectrum Technical Requirement					
Item	FCC Requirement	IC Requirement	Method	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	RSS-Gen Clause 6.8 N/A		
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass	
Radio Spectrum Mat	ter Part				
Item	FCC Requirement	IC Requirement	Method	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)	RSS-Gen Section 8.8	ANSI C63.10 (2013) Section 6.2	Pass	
99% Bandwidth	N/A	RSS-Gen Section 6.7	KDB 789033 II D	Pass	
26dB Emission bandwidth	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1(1)	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)	RSS-247 Section 6.2.4	KDB 789033 D02 II C 2	Pass	
Maximum Conducted output power	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3&6.2 .4	KDB 789033 D02 II E	Pass	
Peak Power spectrum density	47 CFR Part 15, Subpart C 15.407 (a)	RSS-247 Section 6.2.1&6.2.2&6.2.3& 6.2.4	KDB 789033 D02 II F	Pass	
Radiated Emissions	47 CFR Part 15, Subpart C 15.209 & 15.407(b)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	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)	RSS-247 Section 3.3 & RSS-Gen Section 8.9	KDB 789033 D02 II G	Pass	
Frequency Stability	47 CFR Part 15, Subpart C 15.407 (g)	RSS-Gen Section 8.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Note1	

Note1: Frequency stability requested in RSS GEN S8.11 has been complied since the result of band edge can demonstrate.



Report No.: SHEM200700566002

Page: 4 of 233

3 Contents

			Page
1	CO	VER PAGE	1
2	TE	ST SUMMARY	•
_	16	ST SUMMART	
3	CO	NTENTS	4
_			_
4	GE	NERAL INFORMATION	
	4.1	DETAILS OF E.U.T	_
	4.2	Power level setting using in test:	
	4.3	DESCRIPTION OF SUPPORT UNITS	
	4.4	MEASUREMENT UNCERTAINTY	
	4.5	TEST LOCATION	
	4.6	TEST FACILITY	
	4.7	DEVIATION FROM STANDARDS	
	4.8	ABNORMALITIES FROM STANDARD CONDITIONS	
5	EQ	UIPMENT LIST	10
6	RA	DIO SPECTRUM TECHNICAL REQUIREMENT	11
	6.1	Antenna Requirement	11
	6.2	TRANSMISSION IN THE ABSENCE OF DATA	
7	RA	DIO SPECTRUM MATTER TEST RESULTS	13
	7.1	CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	13
	7.2	DUTY CYCLE	
	7.3	99% BANDWIDTH	
	7.4	26DB EMISSION BANDWIDTH	22
	7.5	MINIMUM 6 DB BANDWIDTH (5.725-5.85 GHz BAND)	24
	7.6	MAXIMUM CONDUCTED OUTPUT POWER	
	7.7	PEAK POWER SPECTRUM DENSITY	
	7.8	RADIATED EMISSIONS	
	7.9	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	
	7.10	FREQUENCY STABILITY	231
8	TES	ST SETUP PHOTOGRAPHS	233
9	FII	T CONSTRUCTIONAL DETAILS	233





Page: 5 of 233

4 General Information

4.1 Details of E.U.T.

Power supply: 16V-24V 50/60Hz, 0.5A by Adapter

Test voltage: 120V/60Hz

Serial Number: ND012006271539
Firmware Version: V1.000.0000000.8.R
Antenna Gain: Antenna 1:2.99dBi,
Antenna 2:2.83dBi

Directional gain:5.92dB

Antenna Type: Antenna 1: PIFA Antenna

Antenna 2: PIFA Antenna

DFS Function: Slave without Radar detection

TPC Function: Not Support

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels	
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4	
		802.11n(HT40)/ac(HT40)	5190-5230	2	
		802.11ac(HT80)	5210	1	
	UNII Band II-A	802.11a/n(HT20)/ac(HT20)	5260-5320	4	
		802.11n(HT40)/ac(HT40)	5270-5310	2	
		802.11ac(HT80)	5290	1	
	UNII Band II-C	802.11a/n(HT20)/ac(HT20)	5500-5700	11	
		802.11n(HT40)/ac(HT40)	5510-5670	5	
		802.11ac(HT80)	5530~5610	2	
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5	
		802.11n(HT40)/ac(HT40)	5755-5795	2	
		802.11ac(HT80)	5775	1	
Modulation Type:	802.11a: OFDM	(64QAM, 16QAM, QPSK, BPS	K)		
	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)				
	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)				
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz				
	802.11n(HT40)/a	ac(HT40): 40MHz			
	802.11ac(HT80): 80MHz				
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps				
	802.11n: MCS0-	15			
	802.11ac: MCS0)-9			





Page: 6 of 233

Selected Test Channel for 802.11a/n(HT20)/ac(HT20)				
Band	Channel	Frequency		
	The lowest channel (CH36)	5180MHz		
U-NII Band I	The middle channel (CH40)	5200MHz		
	The highest channel (CH48)	5240MHz		
	The lowest channel (CH52)	5260MHz		
U-NII Band II-A	The middle channel (CH60)	5300MHz		
	The highest channel (CH64)	5320MHz		
	The lowest channel (CH100)	5500MHz		
U-NII Band II-C	The middle channel (CH120)	5600MHz		
	The highest channel (CH140)	5700MHz		
	The lowest channel (CH149)	5745MHz		
U-NII Band III	The middle channel (CH157)	5785MHz		
	The highest channel (CH165)	5825MHz		

Selected Test Channel for 802.11n(HT40)/ac(HT40)				
Band	Channel	Frequency		
U-NII Band I	The lowest channel (CH38)	5190MHz		
O-MII Band I	The highest channel (CH46)	5230MHz		
U-NII Band II-A	The lowest channel (CH54)	5270MHz		
U-INII Band II-A	The highest channel (CH62)	5310MHz		
	The lowest channel (CH102)	5510MHz		
U-NII Band II-C	The middle channel (CH118)	5590MHz		
	The highest channel (CH134)	5670MHz		
U-NII Band III	The lowest channel (CH151)	5755MHz		
U-INII Danu III	The highest channel (CH159)	5795MHz		

Selected Test Channel for 802.11ac(HT80)			
Band	Channel	Frequency	
U-NII Band I	5210MHz		
U-NII Band II-A	One channel (CH58)	5290MHz	
	The lowest channel (CH106)	5530MHz	
U-NII Band II-C	The middle channel (CH122)	5610MHz	
U-NII Band III	One channel (CH155)	5775MHz	





Page: 7 of 233

4.2 Power level setting using in test:

Channel	802.11a	802.11n(HT20)	802.11ac(VHT20)
Chame	Ant1&Ant2	Ant1&Ant2	Ant1&Ant2
36	52	52	52
40	52	52	52
48	52	52	52
52	70	70	70
60	70	70	70
64	70	70	70
100	70	70	70
116	70	70	70
120	70	70	70
140	70	70	70
149	52	52	50
157	52	52	50
165	52	52	50
01 1	802.11n(HT40)	802.11ac(VHT40)	
Channel	Ant1&Ant2	Ant1&Ant2	
38	52	52	
46	52	52	
54	52	52	
62	70	70	
102	70	70	
110	70	70	
118	70	70	
134	70	70	
151	50	50	
159	50	50	
Channel	802.11ac(VHT80)		
Ant1&Ant2	Ant1&Ant2		
42	52		
58	52		
106	52		
122	70		
155	46		
·	·		

4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop Lenovo		ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	1	Test Plate 3	/
		86A245000	
AC Adapter	HON-KWANG	Input:100-240V	/
		Output: AC24V	





Page: 8 of 233

4.4 Measurement Uncertainty

No.	ltem	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
8	DE Dadiated Dower	5.1dB (Below 1GHz)
0	RF Radiated Power	4.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Radiated Spurious Emission Test	4.5dB (30MHz-1GHz)
9		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.



Report No.: SHEM200700566002

Page: 9 of 233

4.5 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

4.6 Test Facility

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

• CNAS (No. CNAS L4354)

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• A2LA (Certificate No. 2541.01)

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

• FCC (Designation Number: CN1172)

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

• ISED (CAB identifier: CN0072)

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

CAB Identifier: CN0072.

• VCCI (Member No.: 1938)

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1600, C-1707, T-1499, G-10216 respectively.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None





Page: 10 of 233

5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
	nducted Emission at Mains Term			Serial Humber	Cai Date	Cai. Due Date
1	EMI Test Receive	R&S	ESCI	100781	02/24/2020	02/23/2021
2	LISN	R&S	ENV216	101604	10/24/2019	10/23/2020
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/24/2019	10/23/2020
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/24/2020	02/23/2021
5	CE test Cable	Thermax	/	14	02/24/2020	02/23/2021
RI	Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/22/2020	04/21/2021
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	12/19/2019	12/18/2020
3	Signal Generator	Agilent	E8257C	MY43321570	10/24/2019	10/23/2020
4	Vector Signal Generator	R&S	SMU 200A	102744	02/24/2020	02/23/2021
5	Universal Radio Communication Tester	R&S	CMU200	109525	12/19/2019	12/18/2020
6	Universal Radio Communication Tester	R&S	CMW500	159275	12/19/2019	12/18/2020
7	Power Meter	Anritsu	ML2495A	1445010	04/21/2020	04/20/2021
8	Switcher	CCSRF	FY562	KS301219	12/20/2019	12/19/2020
9	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
10	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
11	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
12	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
13	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
14	Conducted test cable	/	RF01-RF04	/	04/21/2020	04/22/2021
15	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/21/2020	04/20/2021
RF F	Radiated Test					
1	Spectrum Analyzer	R&S	FSV40	101493	01/08/2020	01/07/2021
2	Signal Generator	Agilent	E8257C	MY43321570	10/24/2019	10/23/2020
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/24/2020	02/23/2021
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/22/2019	06/21/2021
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/29/2019	04/28/2021
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	11/04/2018	11/03/2020
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/25/2019	02/24/2021
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/27/2018	02/26/2021
9	Pre-Amplifier(30MHz~18GHz)	CCSRF	AMP1277	1	12/19/2019	12/18/2020
10	Pre-Amplifier(0.1~26.5GHz)	EMCI	EMC012645	980060	04/21/2020	04/20/2021
11	Low Pass Filter	MICRO-TRONICS	VLFX-950	RV142900829	N.C.R	N.C.R
12	High Pass Filter	Mini-Circuits	VHF-1200	15542	N.C.R	N.C.R
13	Filter (5450MHz~5770 MHz)	MICRO-TRONICS	BRC50704-01	2	N.C.R	N.C.R
14	Filter (5690 MHz~5930 MHz)	MICRO-TRONICS	BRC50705-01	4	N.C.R	N.C.R
15	Filter (5150 MHz~5350 MHz)	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz \sim 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz \sim 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz \sim 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	/	RE01-RE04	/	04/21/2020	04/22/2021





Page: 11 of 233

6 Radio Spectrum Technical Requirement

6.1 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 1 and antenna 2 is PIFA Antenna, and all on the main PCB and no consideration of replacement. The best case gain of the antenna 1 is 2.99 dBi and antenna 2 is 2.83dBi.

Antenna location: Refer to Appendix (Internal Photos)





Page: 12 of 233

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 (RTL8822BS) 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.





Page: 13 of 233

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207 & 15.407 b(6)

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Francisco of amicaian (BALLE)	Conducted limit(dBμV)						
Frequency of emission(MHz)	Quasi-peak	Average					
0.15-0.5	66 to 56*	56 to 46*					
0.5-5	56	46					
5-30	60	50					
*Decreases with the logarithm of the frequency.							



Report No.: SHEM200700566002

Page: 14 of 233

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Pretest these modes to find the worst case:

c: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 @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

The worst case for final test:

b: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

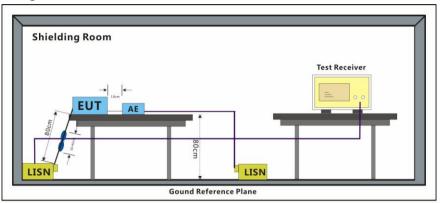
802.11ac(VHT80). Only the data of worst case is recorded in the report.





Page: 15 of 233

7.1.2 Test Setup Diagram



7.1.3 Measurement Procedure and Data

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

Remark:

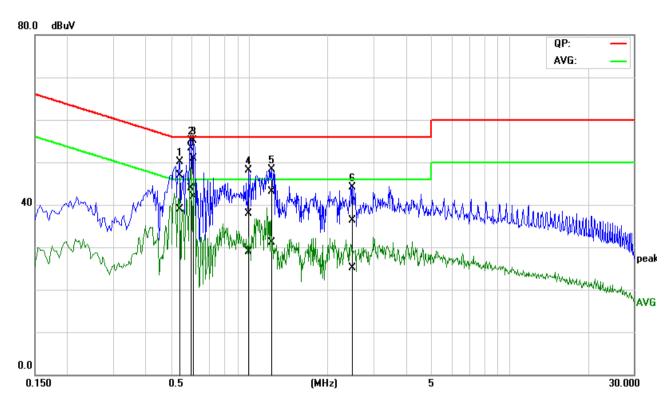
- 1.LISN=Read Level+ Cable Loss+ LISN Factor
- 2. This test item was investigated while operating in each channel mode, however, it was determined that channel 36 operation for a modulation produced the worst conducted emissions. So the conducted emissions produced from other operation are not report.





Page: 16 of 233

Mode:b; Line:Live Line



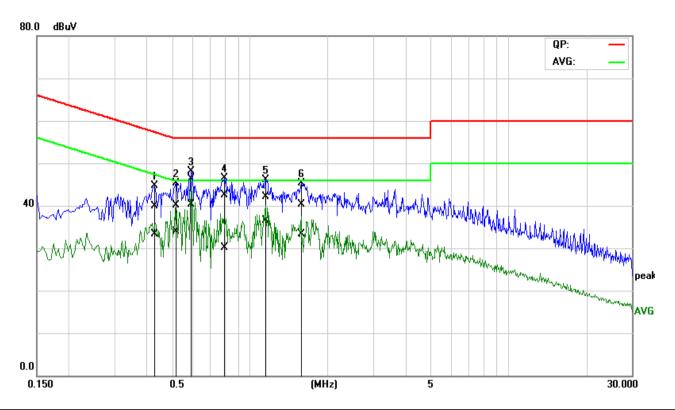
No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.5379	27.36	19.45	19.47	46.83	38.92	56.00	46.00	-9.17	-7.08	Pass
2*	0.5984	33.78	24.49	19.47	53.25	43.96	56.00	46.00	-2.75	-2.04	Pass
3	0.6091	31.42	22.44	19.48	50.90	41.92	56.00	46.00	-5.10	-4.08	Pass
4	0.9906	18.32	9.32	19.58	37.90	28.90	56.00	46.00	-18.10	-17.10	Pass
5	1.2111	23.53	11.56	19.60	43.13	31.16	56.00	46.00	-12.87	-14.84	Pass
6	2.4802	16.54	5.31	19.71	36.25	25.02	56.00	46.00	-19.75	-20.98	Pass





Page: 17 of 233

Mode:b; Line:Neutral Line



No.	Frequency	QuasiPeak reading	Average reading	Correction factor	QuasiPeak result	Average result	QuasiPeak limit	Average limit	QuasiPeak margin	Average margin	Remark
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.4300	20.59	13.92	19.39	39.98	33.31	57.25	47.25	-17.27	-13.94	Pass
2	0.5181	20.63	14.49	19.40	40.03	33.89	56.00	46.00	-15.97	-12.11	Pass
3*	0.5940	26.94	20.85	19.42	46.36	40.27	56.00	46.00	-9.64	-5.73	Pass
4	0.7980	22.99	10.68	19.49	42.48	30.17	56.00	46.00	-13.52	-15.83	Pass
5	1.1500	22.59	17.01	19.57	42.16	36.58	56.00	46.00	-13.84	-9.42	Pass
6	1.5780	20.66	13.79	19.60	40.26	33.39	56.00	46.00	-15.74	-12.61	Pass



Report No.: SHEM200700566002

Page: 18 of 233

7.2 Duty Cycle

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

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test Mode

b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40): data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

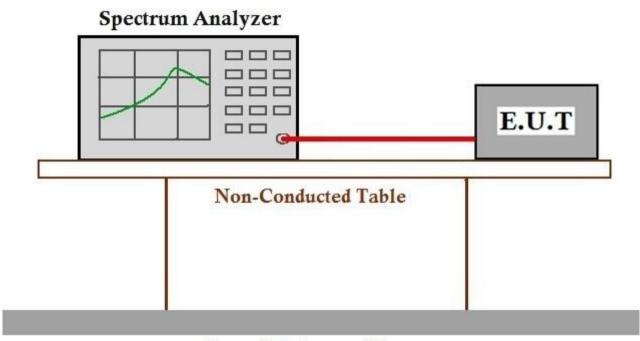
802.11ac(VHT80). Only the data of worst case is recorded in the report.





Page: 19 of 233

7.2.2 Test Setup Diagram



Ground Reference Plane

7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002



Report No.: SHEM200700566002

Page: 20 of 233

7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40): data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

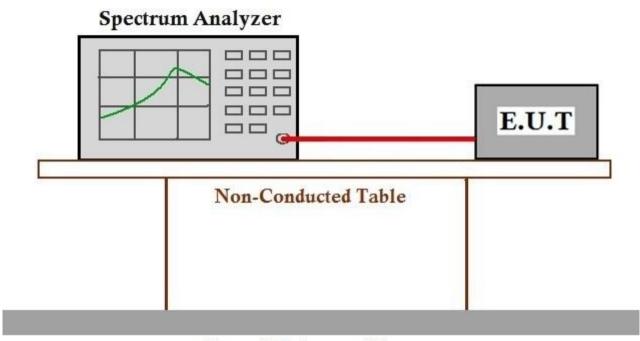
802.11ac(VHT80). Only the data of worst case is recorded in the report.





Page: 21 of 233

7.3.2 Test Setup Diagram



Ground Reference Plane

7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002



Report No.: SHEM200700566002

Page: 22 of 233

7.4 26dB Emission bandwidth

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

Test Method: KDB 789033 D02 II C 1

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b: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); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

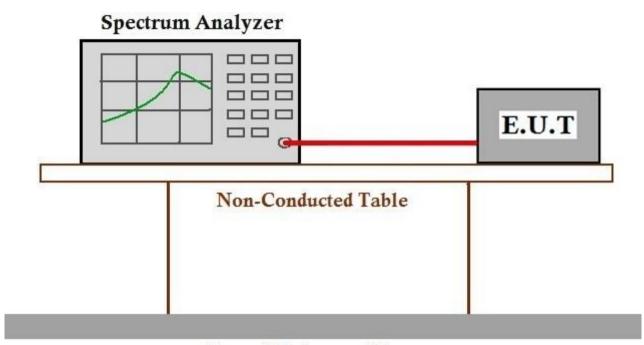
802.11ac(VHT80). Only the data of worst case is recorded in the report.





Page: 23 of 233

7.4.2 Test Setup Diagram



Ground Reference Plane

7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002





Page: 24 of 233

7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

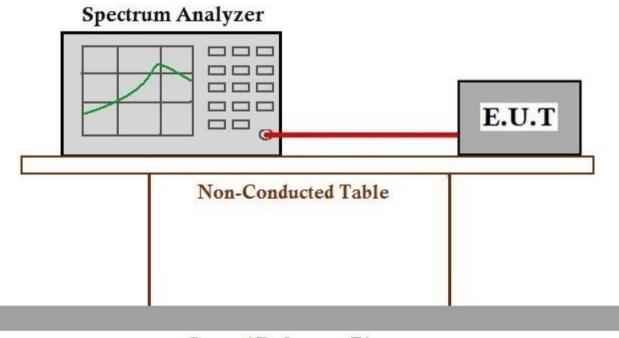
Test mode: b:TX mode (Band 3) Keep the EUT in continuously transmitting mode with all

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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

7.5.2 Test Setup Diagram



Ground Reference Plane

7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002



Report No.: SHEM200700566002

Page: 25 of 233

7.6 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					
E1E0 E	250	≤1W(30dBm) for master device					
5150-5	0250	≤250mW(24dBm) for client device					
5250-5	350	≤250mW(24dBm) for client device or 11dBm+10logB*					
5470-5	725	≤250mW(24dBm) for client device or 11dBm+10logB*					
5725-5	850	≤1W(30dBm)					
Remark:	* Where B is the	ne 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					
	For IC 5150MHz to 5250MHz limit is EIRP≤200mW(23dBm)						



Report No.: SHEM200700566002

Page: 26 of 233

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

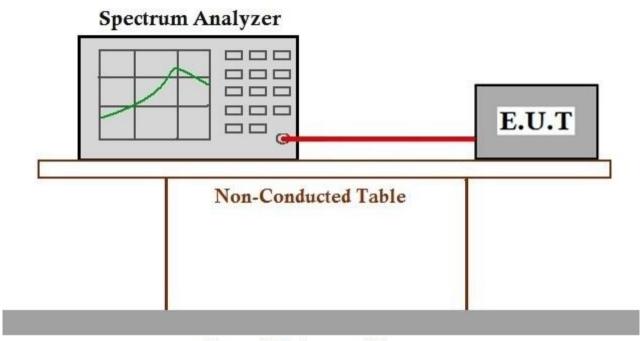
NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编: 201612





Page: 27 of 233

7.6.2 Test Setup Diagram



Ground Reference Plane

7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002



Report No.: SHEM200700566002

Page: 28 of 233

7.7 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				
F150.5	-050	≤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:	The maximum power spectral density is measured as a conducted emission by connection of a calibrated test instrument to the equipment under test.					
	For IC 5150MHz to 5250MHz limit is EIRP PSD≤10dBm/MHz.					



Report No.: SHEM200700566002

Page: 29 of 233

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode:

b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

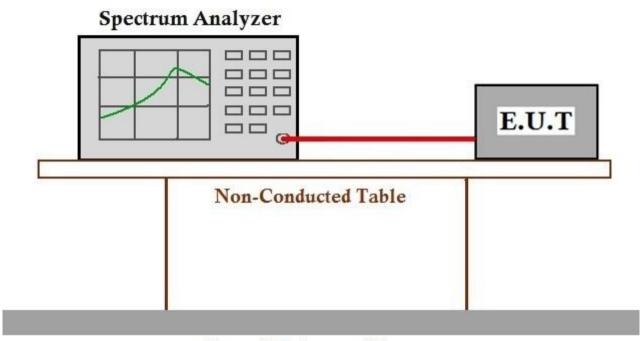
NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编: 201612 t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com





Page: 30 of 233

7.7.2 Test Setup Diagram



Ground Reference Plane

7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002



Report No.: SHEM200700566002

Page: 31 of 233

7.8 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.



Report No.: SHEM200700566002

Page: 32 of 233

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

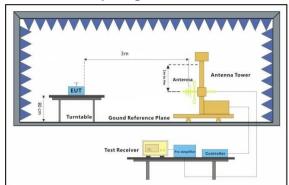
NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编: 201612

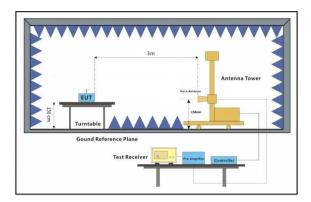


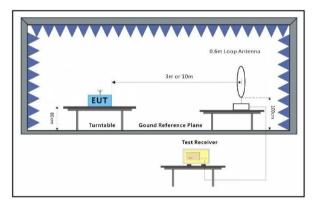


Page: 33 of 233

7.8.2 Test Setup Diagram









Report No.: SHEM200700566002

Page: 34 of 233

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

Remark:

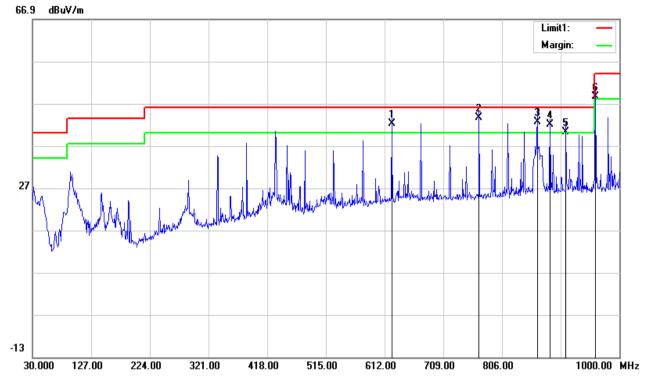
- 1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
- 3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very 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.
- 5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.





Page: 35 of 233

Below 1GHz: Horizontal



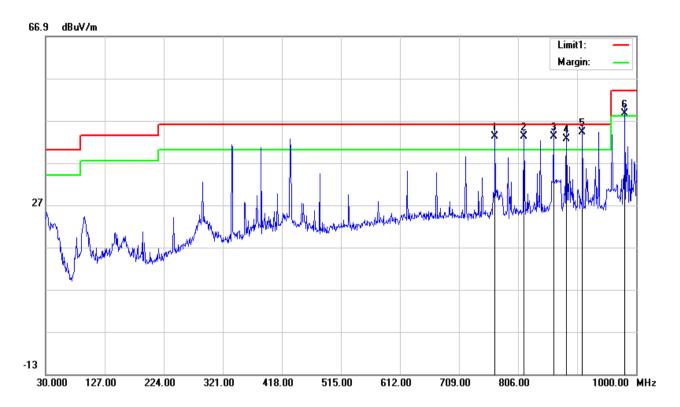
No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	623.6400	18.25	23.89	42.14	46.00	-3.86	100	147	QP
2	768.1700	18.98	24.68	43.66	46.00	-2.34	100	272	QP
3	864.2000	17.07	25.48	42.55	46.00	-3.45	300	68	QP
4	885.5400	16.37	25.61	41.98	46.00	-4.02	200	260	QP
5	911.7300	14.45	25.77	40.22	46.00	-5.78	200	274	QP
6	960.2300	22.49	26.06	48.55	54.00	-5.45	100	140	QP





Page: 36 of 233

Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	768.1700	18.56	24.68	43.24	46.00	-2.76	200	354	QP
2	815.7000	18.03	25.11	43.14	46.00	-2.86	100	278	QP
3	864.2000	17.79	25.48	43.27	46.00	-2.73	300	125	QP
4	885.5400	17.07	25.61	42.68	46.00	-3.32	100	344	QP
5	911.7300	18.44	25.77	44.21	46.00	-1.79	100	285	QP
6	981.5700	22.49	26.08	48.57	54.00	-5.43	100	51	QP

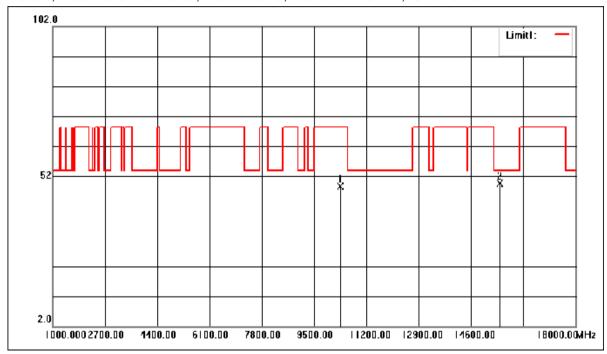




Page: 37 of 233

Above 1GHz:

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



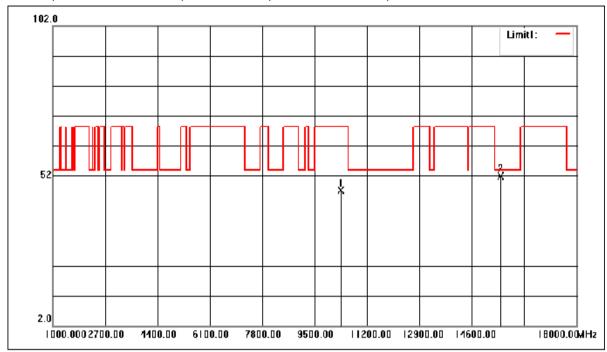
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	51.30	-2.59	48.71	68.30	-19.59	peak
2	15540.000	49.94	-0.30	49.64	54.00	-4.36	peak





Page: 38 of 233

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



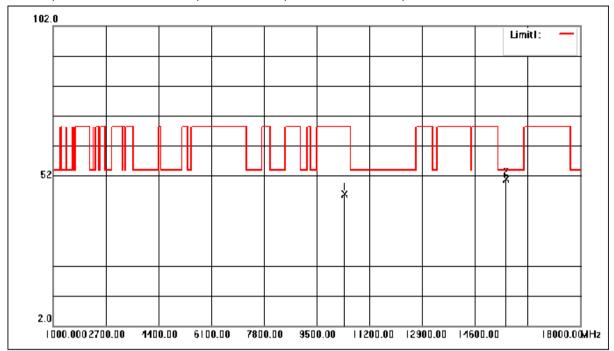
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10360.000	49.63	-2.59	47.04	68.30	-21.26	peak
2	15540.000	52.29	-0.30	51.99	54.00	-2.01	peak





Page: 39 of 233



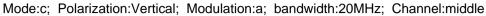


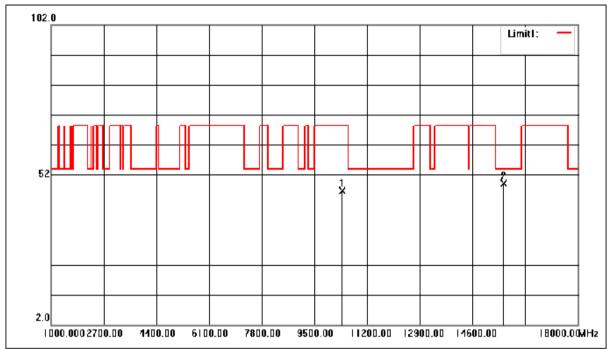
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10400.000	48.37	-2.53	45.84	68.30	-22.46	peak
2	15600.000	51.33	-0.35	50.98	54.00	-3.02	peak





Page: 40 of 233





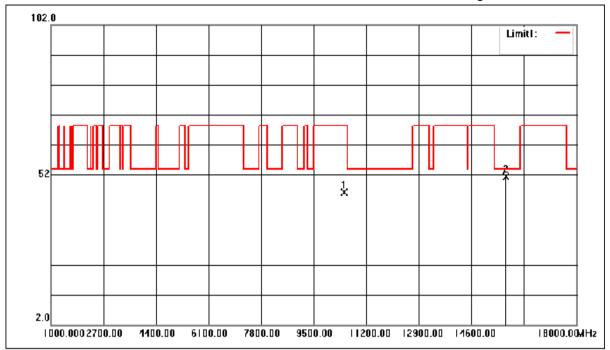
No	. Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	0	factor()	()	()	(dB)	
1	10400.000	49.09	-2.53	46.56	68.30	-21.74	peak
2	15600.000	49.50	-0.35	49.15	54.00	-4.85	peak





Page: 41 of 233

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



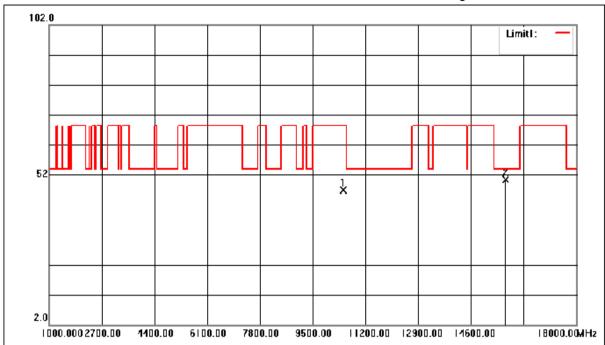
No	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	48.45	-2.41	46.04	68.30	-22.26	peak
2	15720.000	51.89	-0.44	51.45	54.00	-2.55	peak





Page: 42 of 233

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



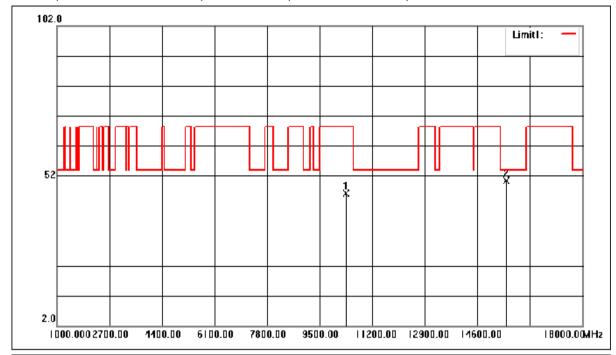
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10480.000	49.38	-2.41	46.97	68.30	-21.33	peak
2	15720.000	50.82	-0.44	50.38	54.00	-3.62	peak





Page: 43 of 233





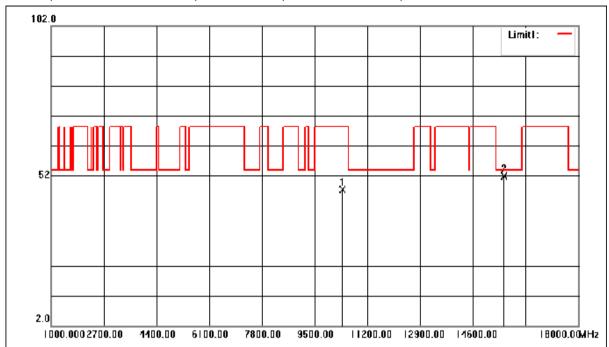
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10360.000	48.70	-2.59	46.11	68.30	-22.19	peak
2	15540.000	50.74	-0.30	50.44	54.00	-3.56	peak





Page: 44 of 233





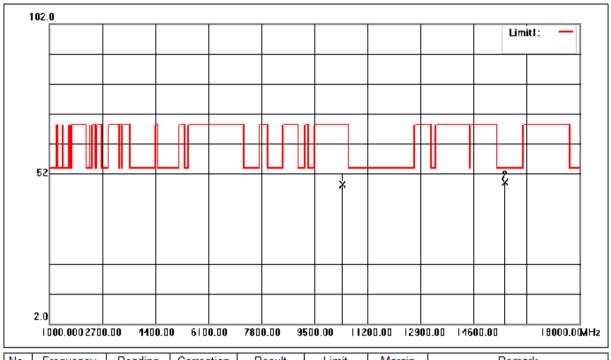
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10400.000	49.94	-2.53	47.41	68.30	-20.89	peak
2	15600.000	52.27	-0.35	51.92	54.00	-2.08	peak





Page: 45 of 233

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



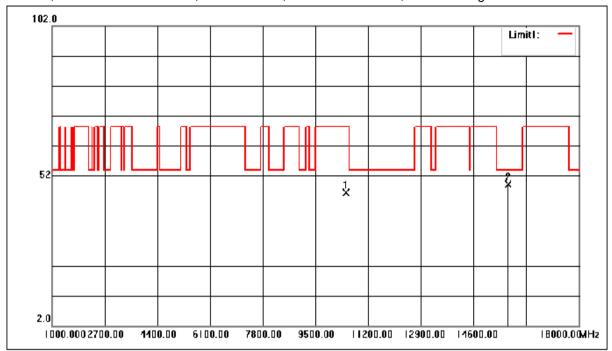
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10400.000	51.02	-2.53	48.49	68.30	-19.81	peak
2	15600.000	49.36	-0.35	49.01	54.00	-4.99	peak





Page: 46 of 233

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



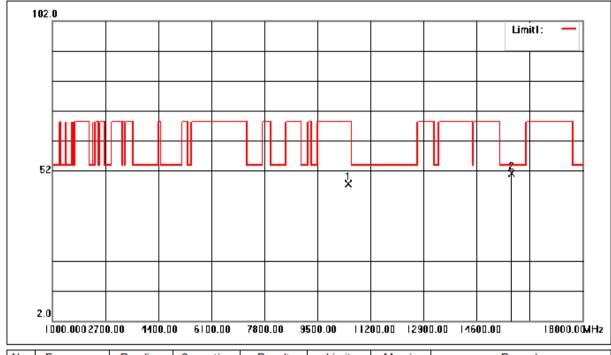
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10480.000	48.85	-2.41	46.44	68.30	-21.86	peak
2	15720.000	49.51	-0.44	49.07	54.00	-4.93	peak





Page: 47 of 233





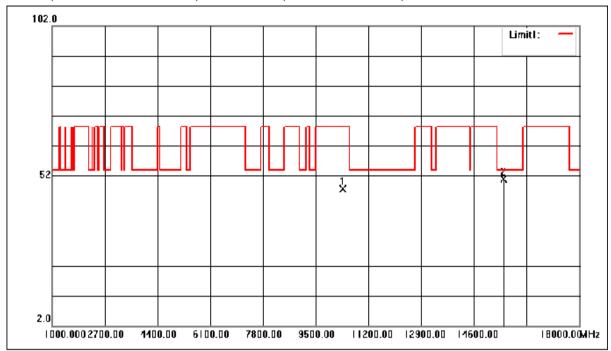
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10480.000	49.96	-2.41	47.55	68.30	-20.75	peak
2	15720.000	51.45	-0.44	51.01	54.00	-2.99	peak





Page: 48 of 233





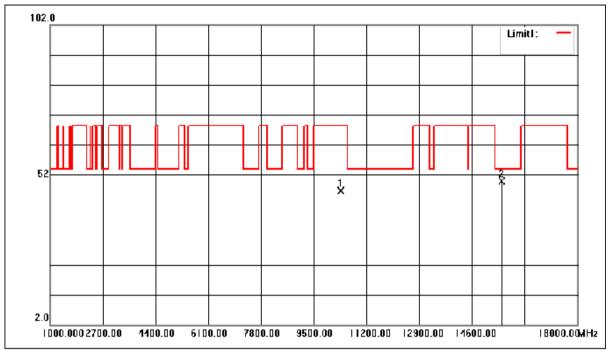
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10380.000	50.08	-2.56	47.52	68.30	-20.78	peak
2	15570.000	51.20	-0.32	50.88	54.00	-3.12	peak





Page: 49 of 233

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



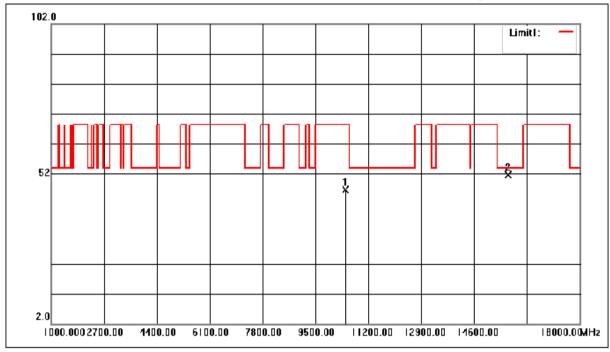
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10380.000	49.10	-2.56	46.54	68.30	-21.76	peak
2	15570.000	50.08	-0.32	49.76	54.00	-4.24	peak





Page: 50 of 233





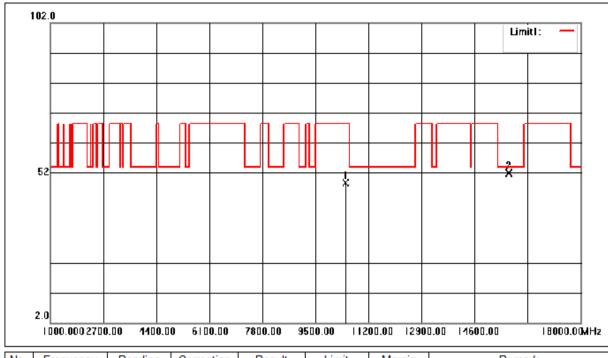
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10460.000	48.95	-2.44	46.51	68.30	-21.79	peak
2	15690.000	51.96	-0.42	51.54	54.00	-2.46	peak





Page: 51 of 233

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



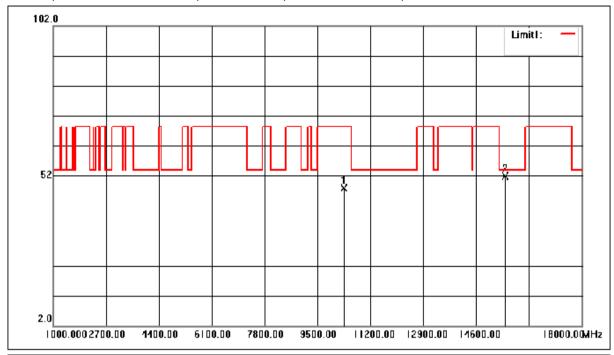
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10460.000	51.09	-2.44	48.65	68.30	-19.65	peak
2	15690.000	52.31	-0.42	51.89	54.00	-2.11	peak





Page: 52 of 233





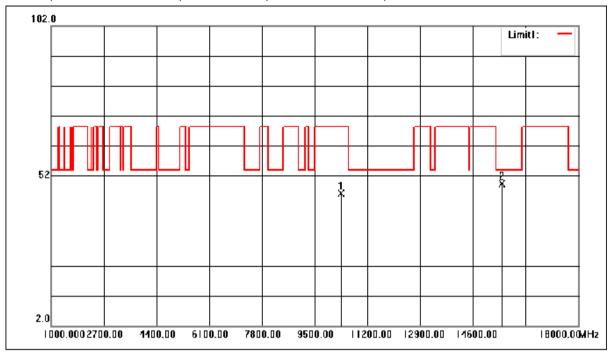
1	Vo.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
•	1	10360.000	50.42	-2.59	47.83	68.30	-20.47	peak
2	2	15540.000	52.28	-0.30	51.98	54.00	-2.02	peak





Page: 53 of 233

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



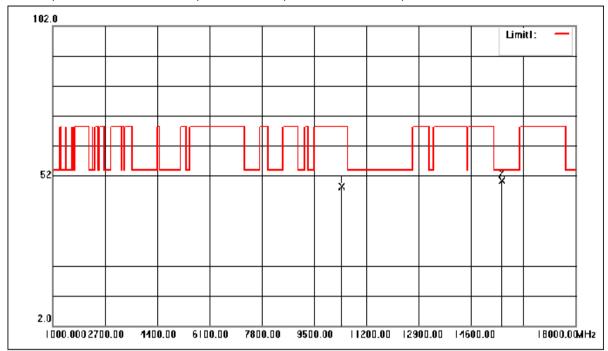
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10360.000	48.77	-2.59	46.18	68.30	-22.12	peak
2	15540.000	49.70	-0.30	49.40	54.00	-4.60	peak





Page: 54 of 233



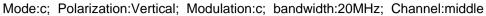


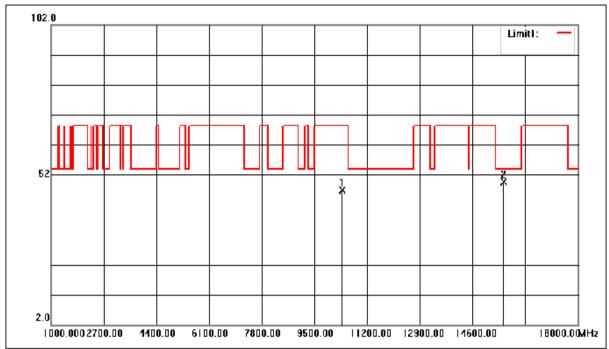
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10400.000	50.98	-2.53	48.45	68.30	-19.85	peak
2	15600.000	50.72	-0.35	50.37	54.00	-3.63	peak





Page: 55 of 233





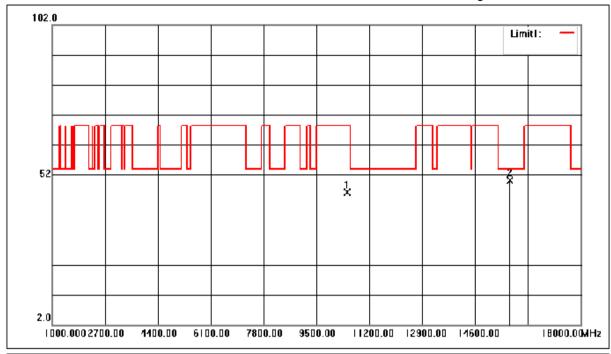
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10400.000	49.48	-2.53	46.95	68.30	-21.35	peak
2	15600.000	49.93	-0.35	49.58	54.00	-4.42	peak





Page: 56 of 233

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



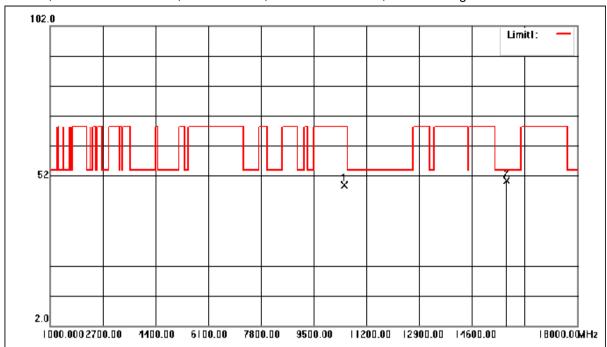
No.	Frequency (MHz)	Reading	Correction factor()	Result	Limit	Margin (dB)	Remark
1	10480.000	48.54	-2.41	46.13	68.30	-22.17	peak
2	15720.000	50.48	-0.44	50.04	54.00	-3.96	peak





Page: 57 of 233

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



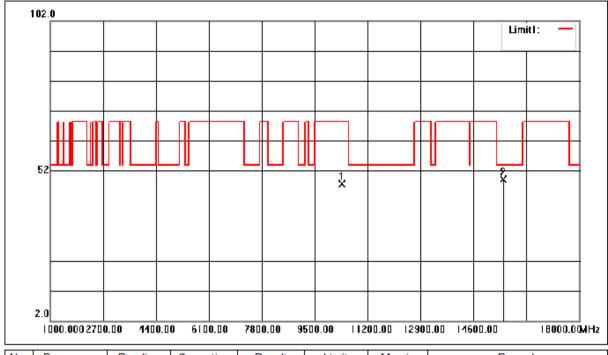
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10480.000	51.28	-2.41	48.87	68.30	-19.43	peak
2	15720.000	50.92	-0.44	50.48	54.00	-3.52	peak





Page: 58 of 233

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



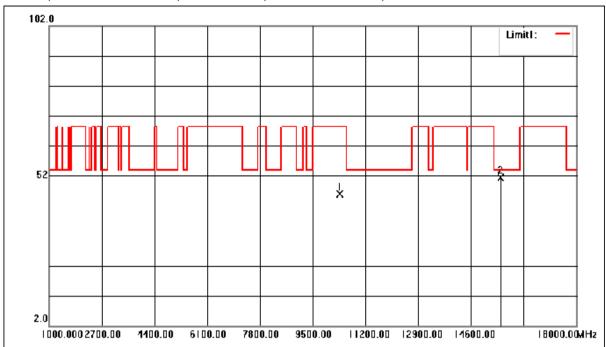
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10380.000	50.27	-2.56	47.71	68.30	-20.59	peak
2	15570.000	49.33	-0.32	49.01	54.00	-4.99	peak





Page: 59 of 233

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



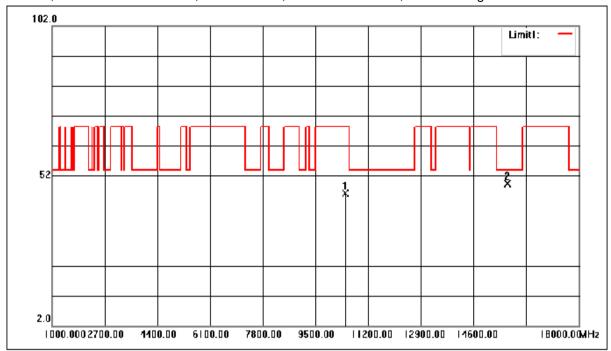
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10380.000	48.52	-2.56	45.96	68.30	-22.34	peak
2	15570.000	51.80	-0.32	51.48	54.00	-2.52	peak





Page: 60 of 233





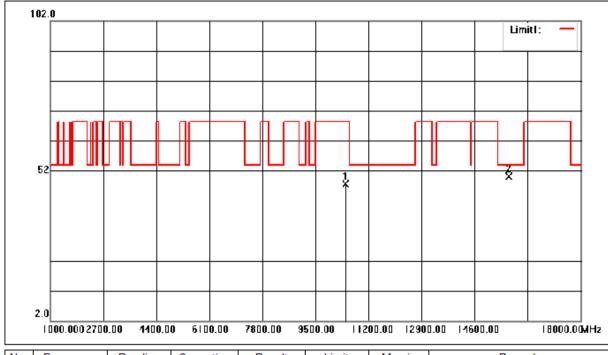
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10460.000	48.54	-2.44	46.10	68.30	-22.20	peak
2	15690.000	49.75	-0.42	49.33	54.00	-4.67	peak





Page: 61 of 233





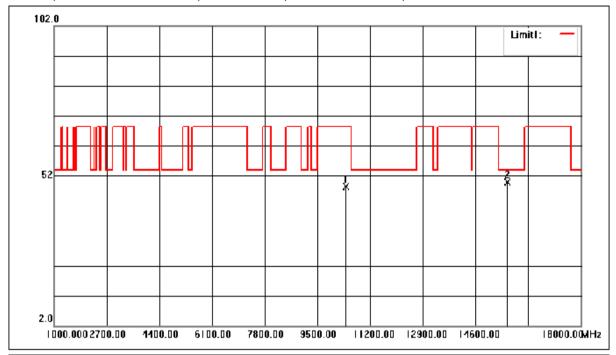
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10460.000	49.98	-2.44	47.54	68.30	-20.76	peak
2	15690.000	50.48	-0.42	50.06	54.00	-3.94	peak





Page: 62 of 233





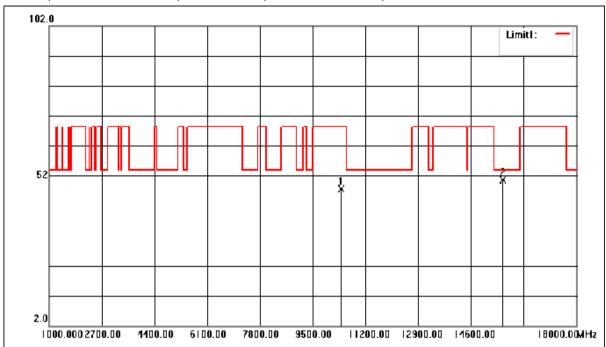
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10420.000	50.78	-2.50	48.28	68.30	-20.02	peak
2	15630.000	50.31	-0.37	49.94	54.00	-4.06	peak





Page: 63 of 233

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



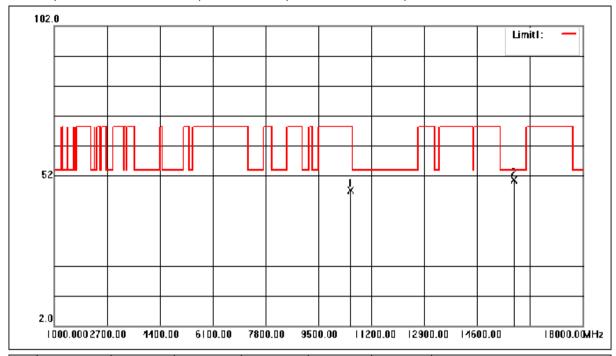
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10420.000	50.23	-2.50	47.73	68.30	-20.57	peak
2	15630.000	51.06	-0.37	50.69	54.00	-3.31	peak





Page: 64 of 233

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



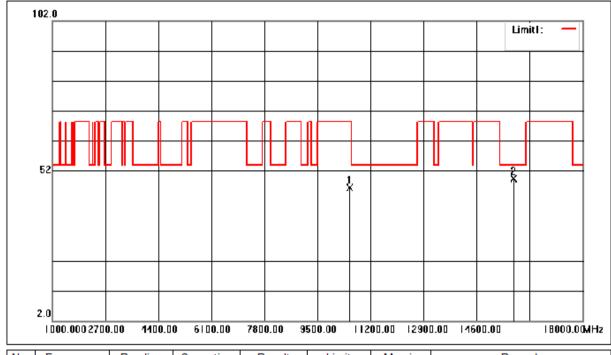
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	49.38	-2.33	47.05	68.30	-21.25	peak
2	15780.000	51.06	-0.49	50.57	54.00	-3.43	peak





Page: 65 of 233

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



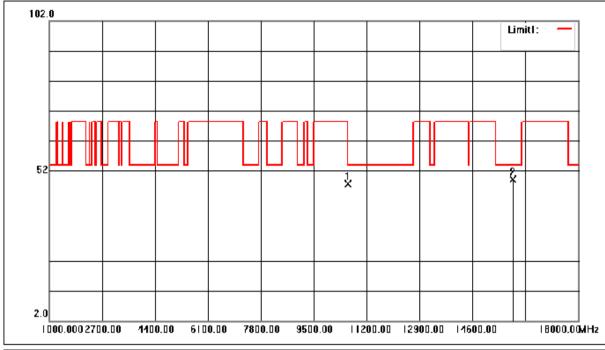
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	48.77	-2.33	46.44	68.30	-21.86	peak
2	15780.000	49.89	-0.49	49.40	54.00	-4.60	peak





Page: 66 of 233

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



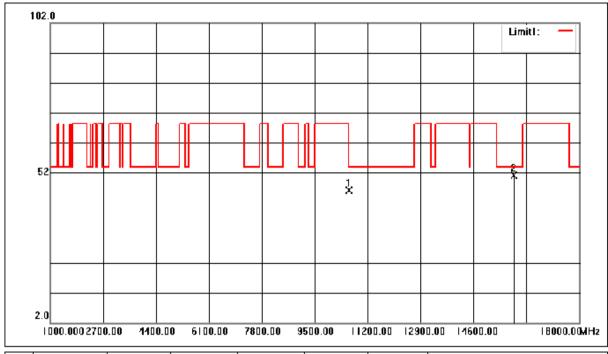
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	49.70	-2.12	47.58	54.00	-6.42	peak
2	15900.000	49.69	-0.58	49.11	54.00	-4.89	peak





Page: 67 of 233

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



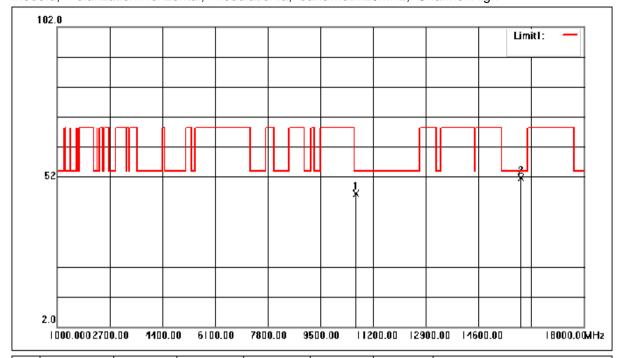
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10600.000	48.36	-2.12	46.24	54.00	-7.76	peak
2	15900.000	51.76	-0.58	51.18	54.00	-2.82	peak





Page: 68 of 233

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



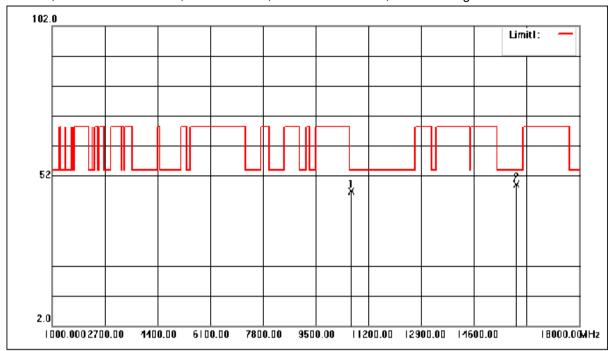
1	lo.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
1		10640.000	48.45	-2.01	46.44	54.00	-7.56	peak
2	2	15960.000	52.38	-0.63	51.75	54.00	-2.25	peak





Page: 69 of 233

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



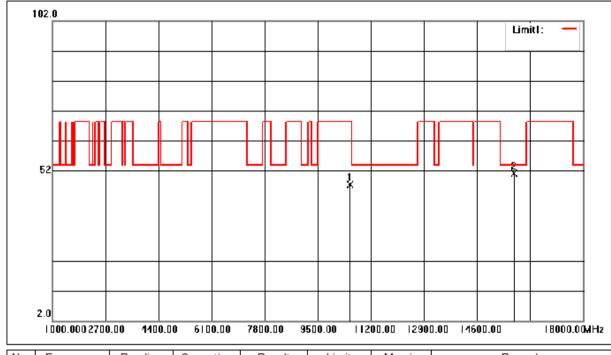
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10640.000	48.89	-2.01	46.88	54.00	-7.12	peak
2	15960.000	49.87	-0.63	49.24	54.00	-4.76	peak





Page: 70 of 233

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



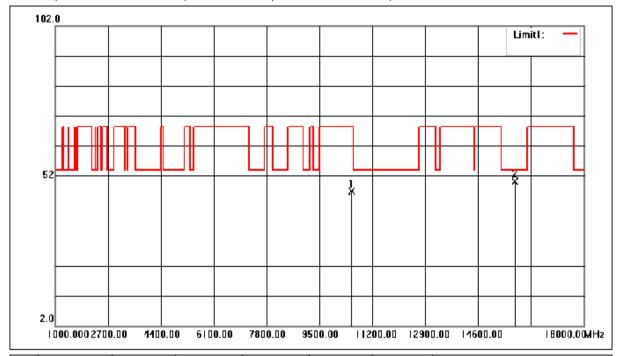
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10520.000	49.73	-2.33	47.40	68.30	-20.90	peak
2	15780.000	51.60	-0.49	51.11	54.00	-2.89	peak





Page: 71 of 233

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



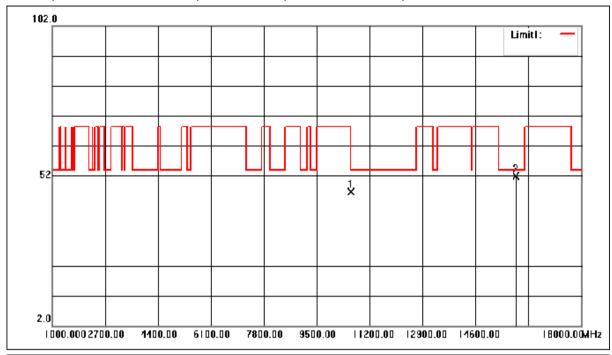
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	49.25	-2.33	46.92	68.30	-21.38	peak
2	15780.000	50.72	-0.49	50.23	54.00	-3.77	peak





Page: 72 of 233

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



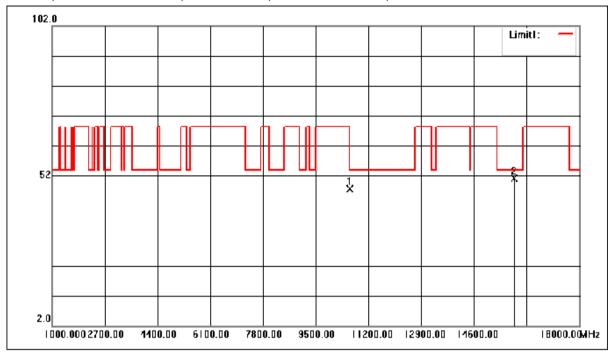
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	0	factor()	()	()	(dB)	
1	10600.000	48.84	-2.12	46.72	54.00	-7.28	peak
2	15900.000	52.37	-0.58	51.79	54.00	-2.21	peak





Page: 73 of 233

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



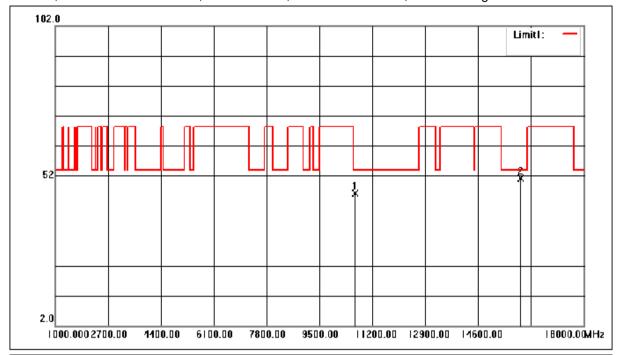
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10600.000	49.81	-2.12	47.69	54.00	-6.31	peak
2	15900.000	51.80	-0.58	51.22	54.00	-2.78	peak





Page: 74 of 233

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



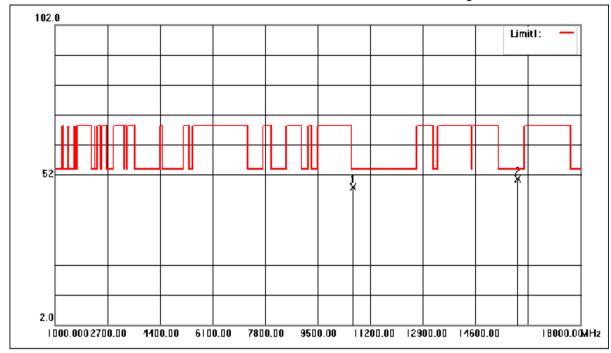
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	10640.000	48.05	-2.01	46.04	54.00	-7.96	peak
ſ	2	15960.000	51.83	-0.63	51.20	54.00	-2.80	peak





Page: 75 of 233

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



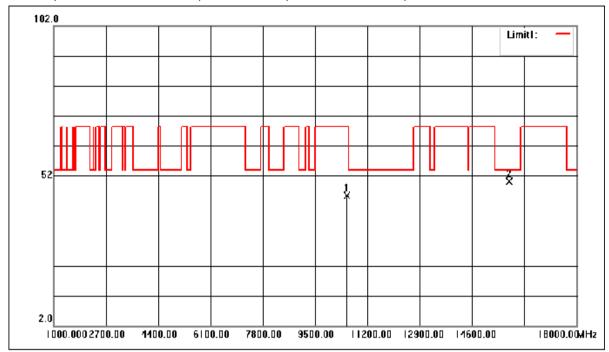
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10640.000	49.77	-2.01	47.76	54.00	-6.24	peak
2	15960.000	51.17	-0.63	50.54	54.00	-3.46	peak





Page: 76 of 233

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



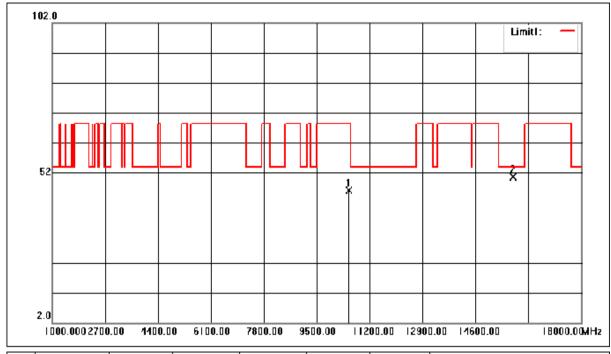
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	10540.000	47.67	-2.28	45.39	68.30	-22.91	peak
Ī	2	15810.000	50.69	-0.51	50.18	54.00	-3.82	peak





Page: 77 of 233

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



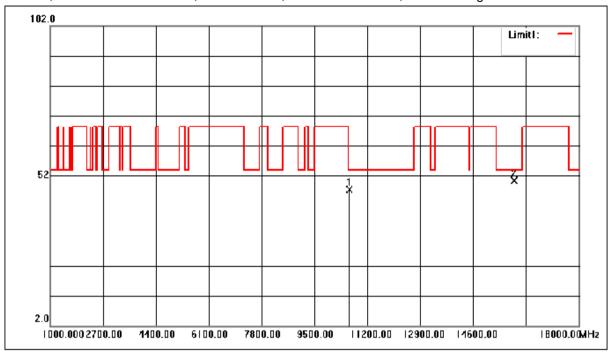
N	lo.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
1		10540.000	48.35	-2.28	46.07	68.30	-22.23	peak
2		15810.000	51.18	-0.51	50.67	54.00	-3.33	peak





Page: 78 of 233

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



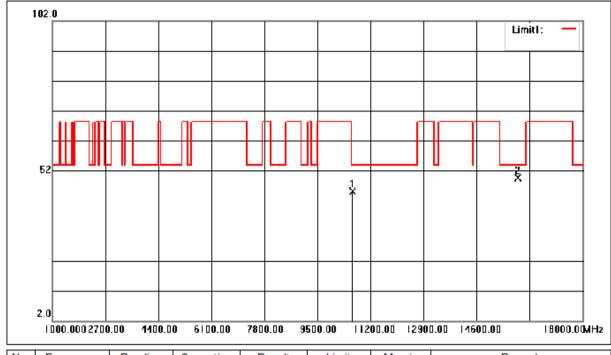
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10620.000	49.47	-2.07	47.40	54.00	-6.60	peak
2	15930.000	51.02	-0.61	50.41	54.00	-3.59	peak





Page: 79 of 233

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



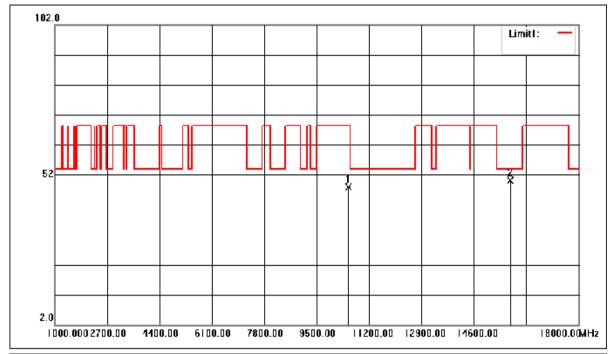
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	47.23	-2.07	45.16	54.00	-8.84	peak
2	15930.000	50.12	-0.61	49.51	54.00	-4.49	peak





Page: 80 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



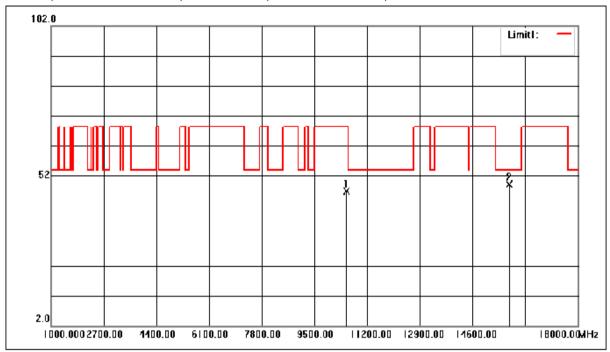
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	50.32	-2.33	47.99	68.30	-20.31	peak
2	15780.000	50.58	-0.49	50.09	54.00	-3.91	peak





Page: 81 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



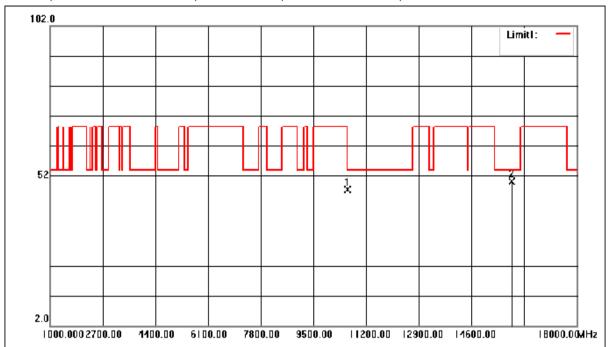
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10520.000	49.18	-2.33	46.85	68.30	-21.45	peak
2	15780.000	49.59	-0.49	49.10	54.00	-4.90	peak





Page: 82 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



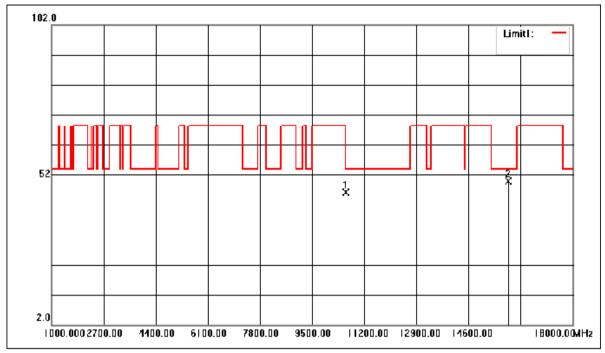
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10600.000	49.56	-2.12	47.44	54.00	-6.56	peak
2	15900.000	50.67	-0.58	50.09	54.00	-3.91	peak





Page: 83 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



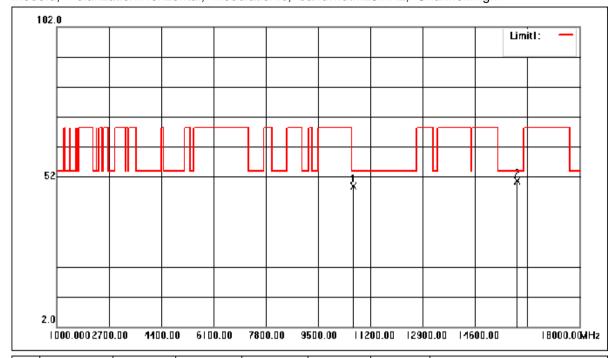
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10600.000	48.21	-2.12	46.09	54.00	-7.91	peak
2	15900.000	50.39	-0.58	49.81	54.00	-4.19	peak





Page: 84 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



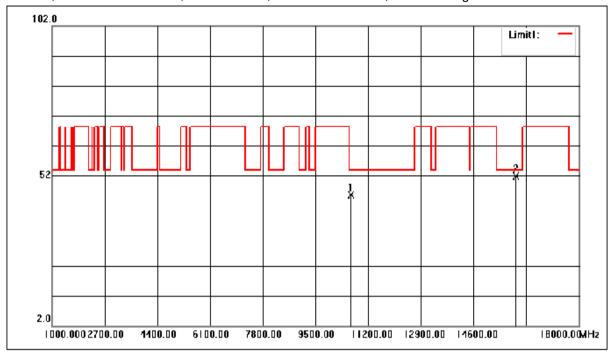
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	10640.000	50.90	-2.01	48.89	54.00	-5.11	peak
ſ	2	15960.000	51.34	-0.63	50.71	54.00	-3.29	peak





Page: 85 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



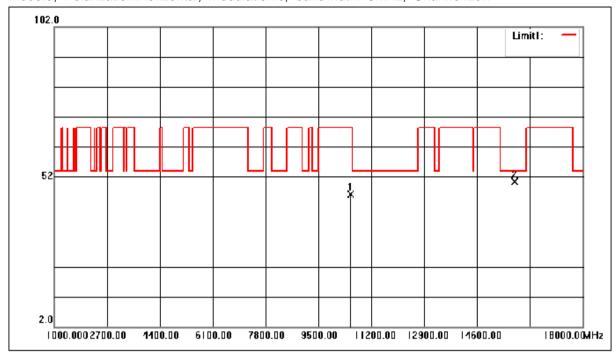
N	o. F	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
1		10640.000	47.58	-2.01	45.57	54.00	-8.43	peak
2		15960.000	52.57	-0.63	51.94	54.00	-2.06	peak





Page: 86 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



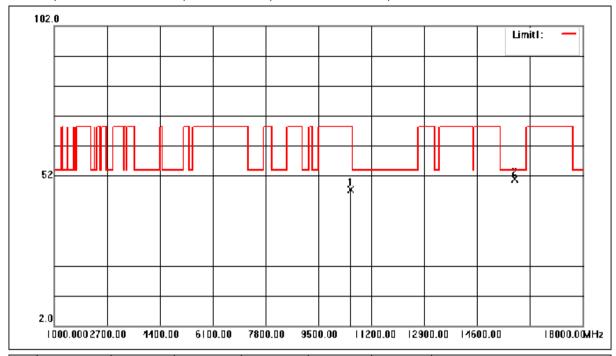
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
Γ	1	10540.000	48.44	-2.28	46.16	68.30	-22.14	peak
ſ	2	15810.000	50.81	-0.51	50.30	54.00	-3.70	peak





Page: 87 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



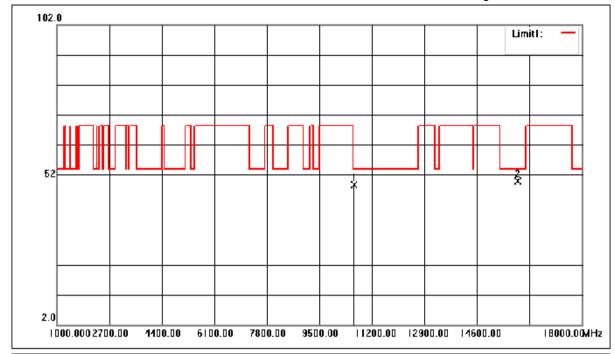
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
Γ	1	10540.000	49.58	-2.28	47.30	68.30	-21.00	peak
	2	15810.000	51.28	-0.51	50.77	54.00	-3.23	peak





Page: 88 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



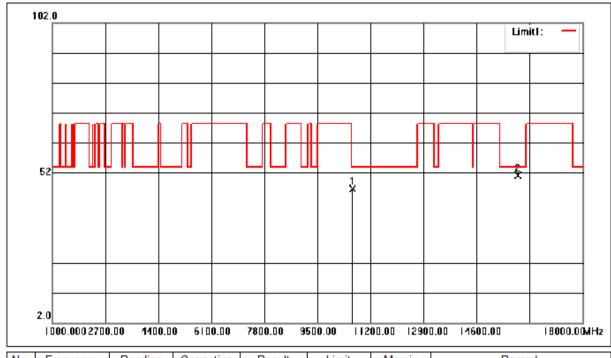
N	. Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	10620.000	50.68	-2.07	48.61	54.00	-5.39	peak
2	15930.000	50.37	-0.61	49.76	54.00	-4.24	peak





Page: 89 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



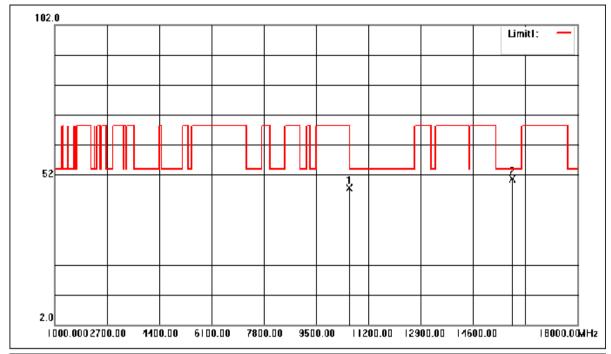
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	10620.000	48.78	-2.07	46.71	54.00	-7.29	peak
2	15930.000	51.77	-0.61	51.16	54.00	-2.84	peak





Page: 90 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



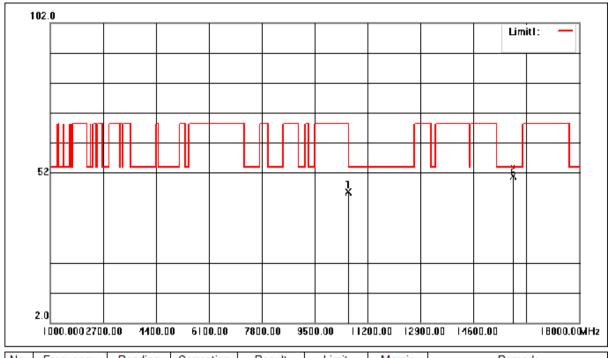
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	10580.000	49.81	-2.17	47.64	68.30	-20.66	peak
Ī	2	15870.000	51.14	-0.56	50.58	54.00	-3.42	peak





Page: 91 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



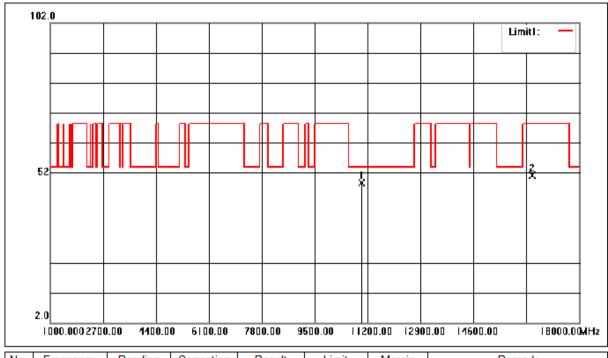
I	۱o.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
1	I	10580.000	47.87	-2.17	45.70	68.30	-22.60	peak
2	2	15870.000	51.36	-0.56	50.80	54.00	-3.20	peak





Page: 92 of 233

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



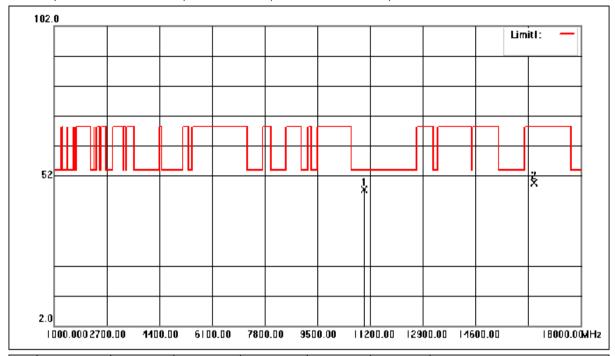
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11000.000	49.58	-1.07	48.51	54.00	-5.49	peak
2	16500.000	50.73	0.28	51.01	68.30	-17.29	peak





Page: 93 of 233

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



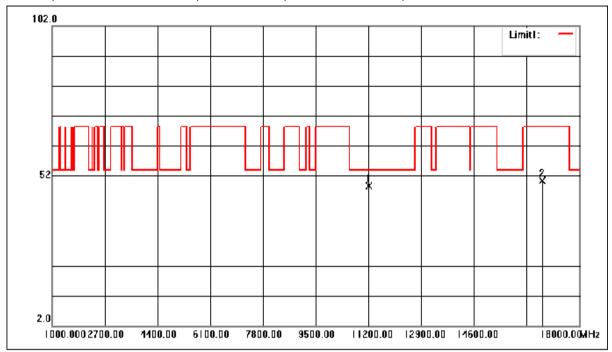
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11000.000	48.43	-1.07	47.36	54.00	-6.64	peak
2	16500.000	49.38	0.28	49.66	68.30	-18.64	peak





Page: 94 of 233

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



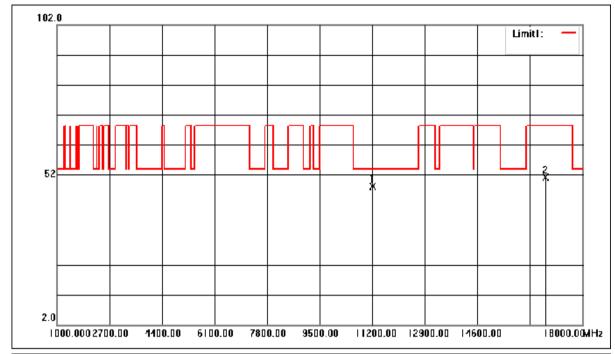
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	50.15	-1.55	48.60	54.00	-5.40	peak
2	16800.000	50.28	0.11	50.39	68.30	-17.91	peak





Page: 95 of 233

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



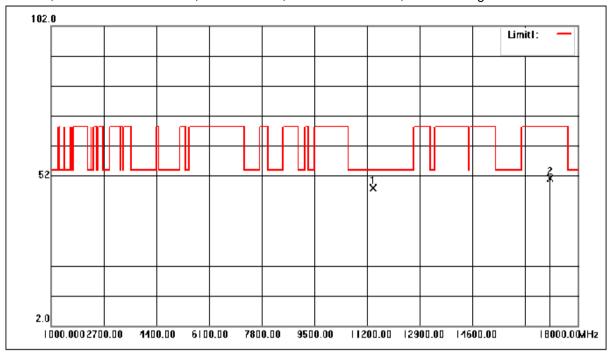
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	49.63	-1.55	48.08	54.00	-5.92	peak
2	16800.000	51.13	0.11	51.24	68.30	-17.06	peak





Page: 96 of 233

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



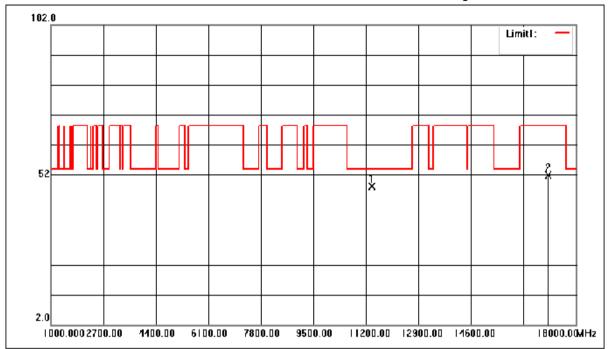
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11400.000	49.91	-2.02	47.89	54.00	-6.11	peak
2	17100.000	51.09	-0.08	51.01	68.30	-17.29	peak





Page: 97 of 233

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



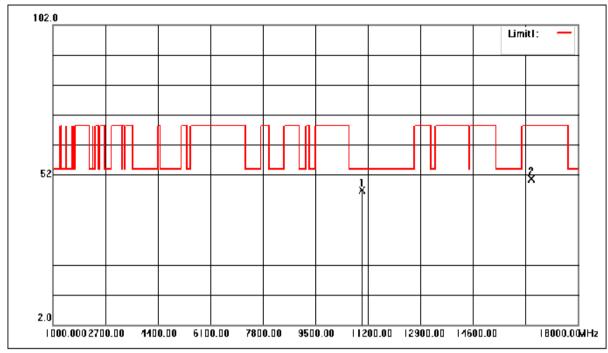
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11400.000	50.04	-2.02	48.02	54.00	-5.98	peak
Γ	2	17100.000	51.90	-0.08	51.82	68.30	-16.48	peak





Page: 98 of 233

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



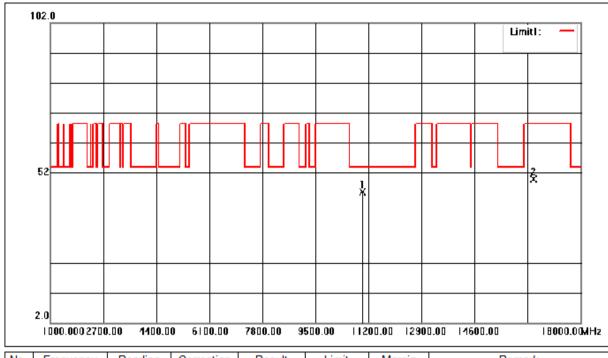
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	47.87	-1.07	46.80	54.00	-7.20	peak
2	16500.000	50.36	0.28	50.64	68.30	-17.66	peak





Page: 99 of 233

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



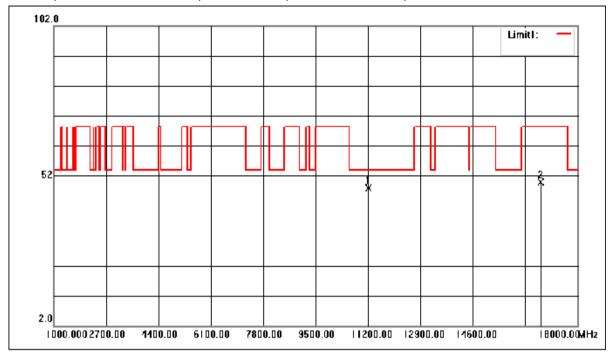
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11000.000	46.76	-1.07	45.69	54.00	-8.31	peak
2	16500.000	49.53	0.28	49.81	68.30	-18.49	peak





Page: 100 of 233

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



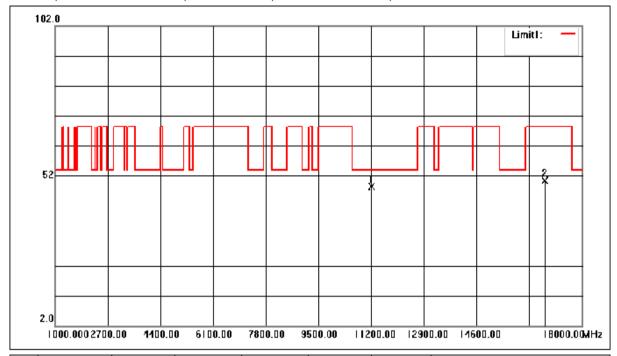
I	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
•	1	11200.000	49.46	-1.55	47.91	54.00	-6.09	peak
1	2	16800.000	49.70	0.11	49.81	68.30	-18.49	peak





Page: 101 of 233

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



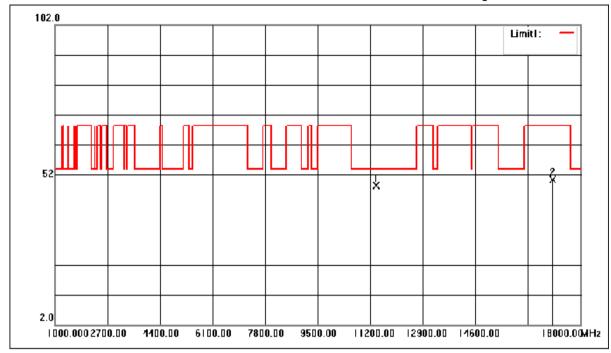
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	49.87	-1.55	48.32	54.00	-5.68	peak
2	16800.000	50.31	0.11	50.42	68.30	-17.88	peak





Page: 102 of 233

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



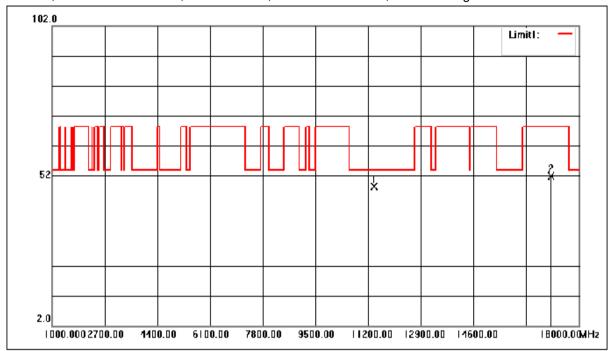
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	50.37	-2.02	48.35	54.00	-5.65	peak
2	17100.000	50.42	-0.08	50.34	68.30	-17.96	peak





Page: 103 of 233

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



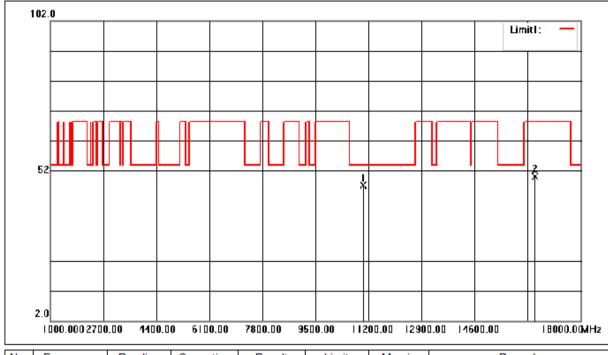
1	٧o.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
1	1	11400.000	50.49	-2.02	48.47	54.00	-5.53	peak
2	2	17100.000	52.07	-0.08	51.99	68.30	-16.31	peak





Page: 104 of 233

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



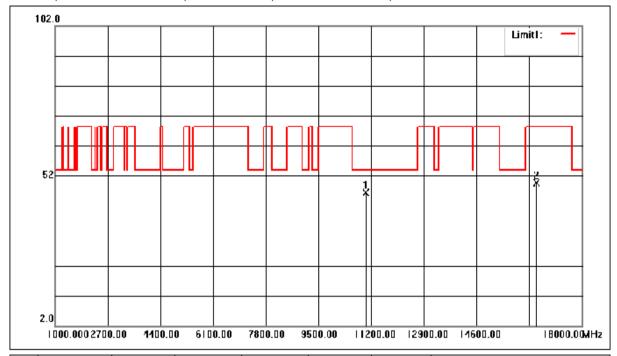
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11020.000	48.31	-1.12	47.19	54.00	-6.81	peak
2	16530.000	49.96	0.26	50.22	68.30	-18.08	peak





Page: 105 of 233

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



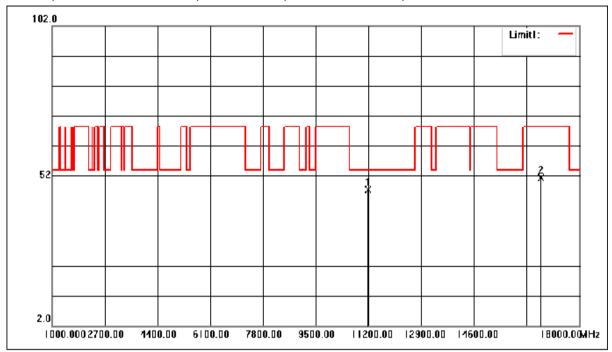
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11020.000	47.41	-1.12	46.29	54.00	-7.71	peak
2	16530.000	49.42	0.26	49.68	68.30	-18.62	peak





Page: 106 of 233

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



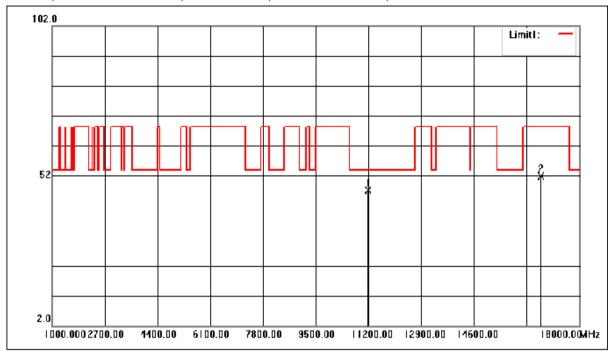
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11180.000	48.86	-1.50	47.36	54.00	-6.64	peak
2	16770.000	51.36	0.13	51.49	68.30	-16.81	peak





Page: 107 of 233

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



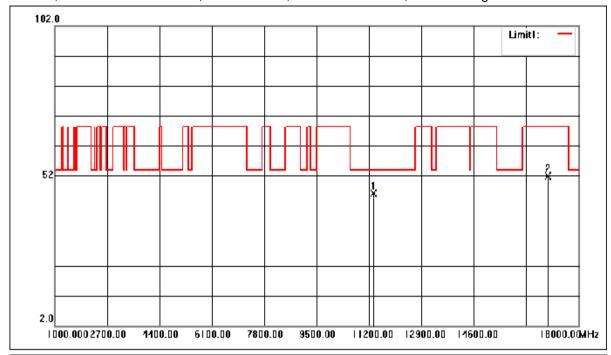
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11180.000	48.57	-1.50	47.07	54.00	-6.93	peak
2	16770.000	51.67	0.13	51.80	68.30	-16.50	peak





Page: 108 of 233

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



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11340.000	48.13	-1.88	46.25	54.00	-7.75	peak
2	17010.000	51.80	-0.01	51.79	68.30	-16.51	peak





Page: 109 of 233

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



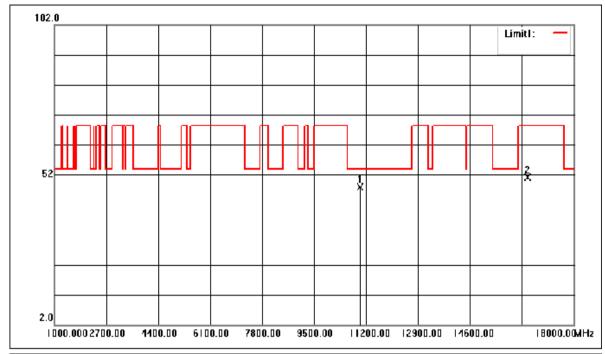
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11340.000	49.18	-1.88	47.30	54.00	-6.70	peak
2	17010.000	50.32	-0.01	50.31	68.30	-17.99	peak





Page: 110 of 233

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

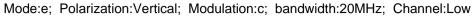


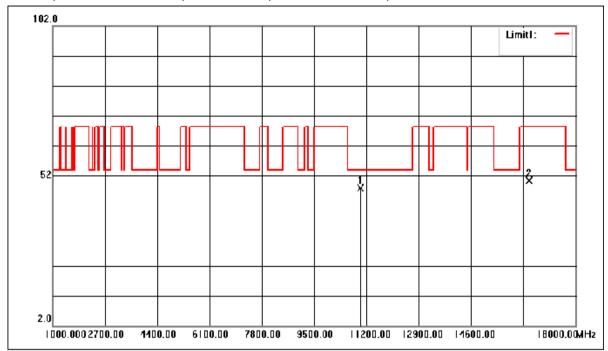
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11000.000	48.91	-1.07	47.84	54.00	-6.16	peak
ĺ	2	16500.000	50.97	0.28	51.25	68.30	-17.05	peak





Page: 111 of 233





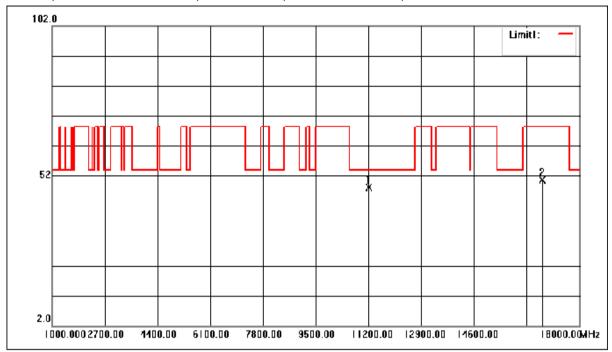
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11000.000	49.02	-1.07	47.95	54.00	-6.05	peak
2	16500.000	50.21	0.28	50.49	68.30	-17.81	peak





Page: 112 of 233

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



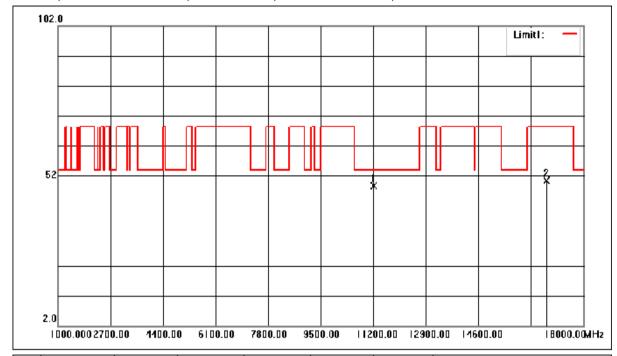
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	49.64	-1.55	48.09	54.00	-5.91	peak
2	16800.000	50.55	0.11	50.66	68.30	-17.64	peak





Page: 113 of 233

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



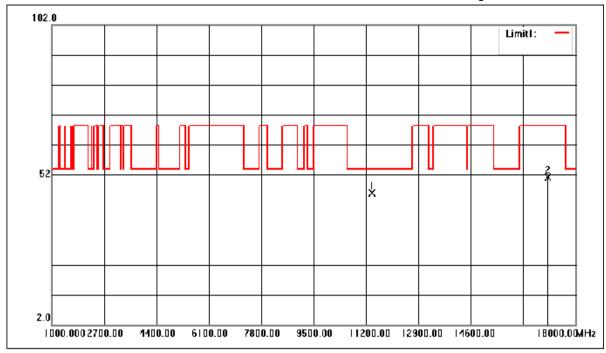
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11200.000	50.18	-1.55	48.63	54.00	-5.37	peak
2	16800.000	50.26	0.11	50.37	68.30	-17.93	peak





Page: 114 of 233

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



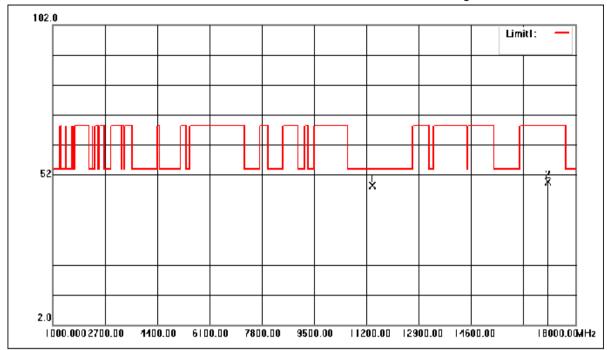
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	47.91	-2.02	45.89	54.00	-8.11	peak
2	17100.000	51.22	-0.08	51.14	68.30	-17.16	peak





Page: 115 of 233

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



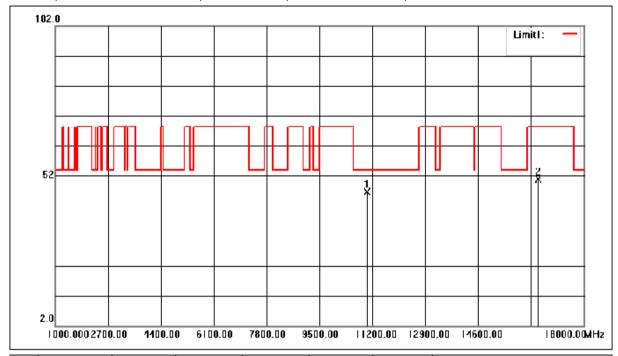
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11400.000	50.44	-2.02	48.42	54.00	-5.58	peak
2	17100.000	49.65	-0.08	49.57	68.30	-18.73	peak





Page: 116 of 233

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



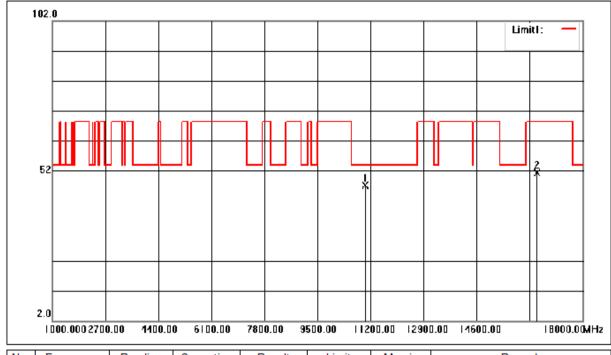
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11020.000	47.72	-1.12	46.60	54.00	-7.40	peak
2	16530.000	50.61	0.26	50.87	68.30	-17.43	peak





Page: 117 of 233

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



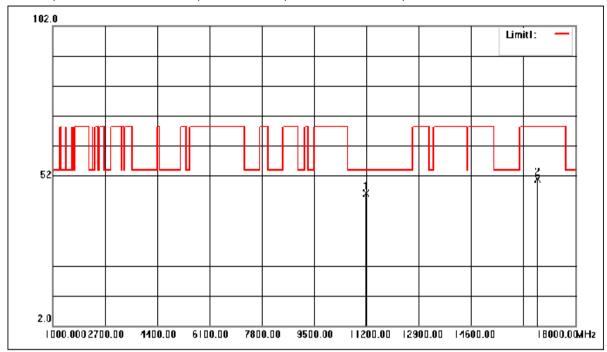
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11020.000	48.30	-1.12	47.18	54.00	-6.82	peak
2	16530.000	51.15	0.26	51.41	68.30	-16.89	peak





Page: 118 of 233

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle



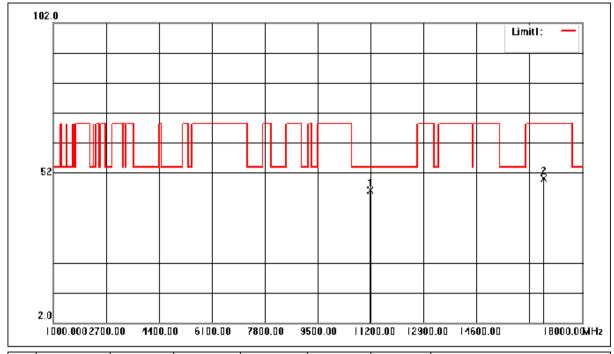
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11180.000	47.54	-1.50	46.04	54.00	-7.96	peak
2	16770.000	50.84	0.13	50.97	68.30	-17.33	peak





Page: 119 of 233

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle



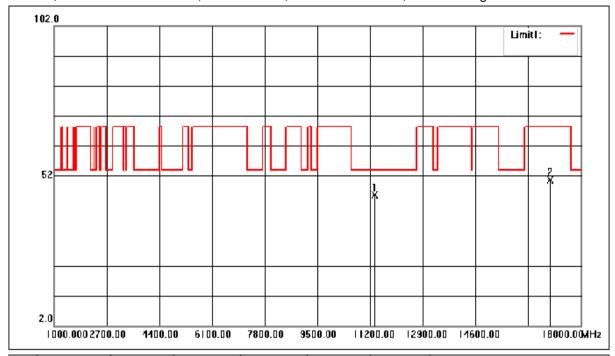
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11180.000	47.61	-1.50	46.11	54.00	-7.89	peak
2	16770.000	50.09	0.13	50.22	68.30	-18.08	peak





Page: 120 of 233

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



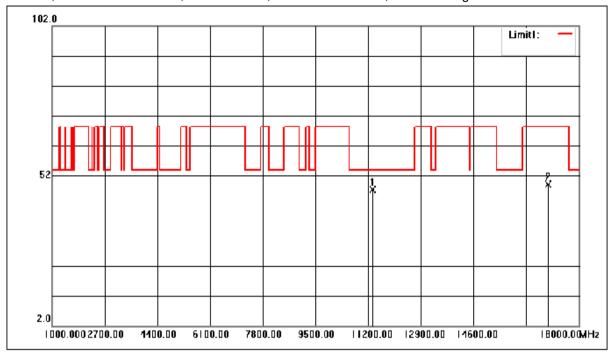
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11340.000	47.43	-1.88	45.55	54.00	-8.45	peak
2	17010.000	50.64	-0.01	50.63	68.30	-17.67	peak





Page: 121 of 233

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



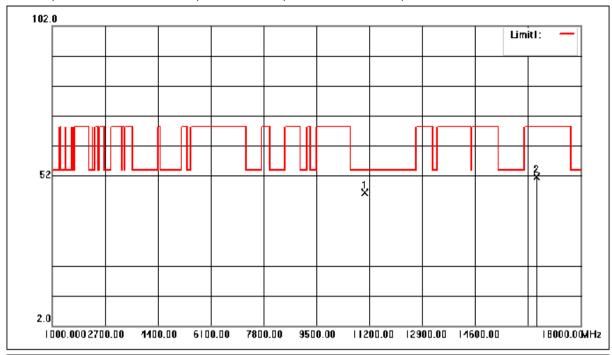
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11340.000	49.33	-1.88	47.45	54.00	-6.55	peak
2	17010.000	49.20	-0.01	49.19	68.30	-19.11	peak





Page: 122 of 233

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



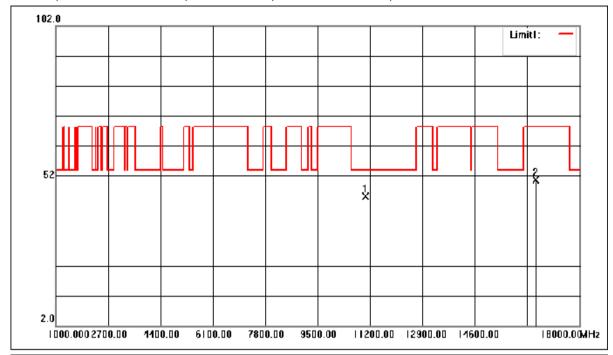
No.	Frequency (MHz)	Reading	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11060.000	47.71	-1.21	46.50	54.00	-7.50	peak
2	16590.000	51.46	0.23	51.69	68.30	-16.61	peak





Page: 123 of 233





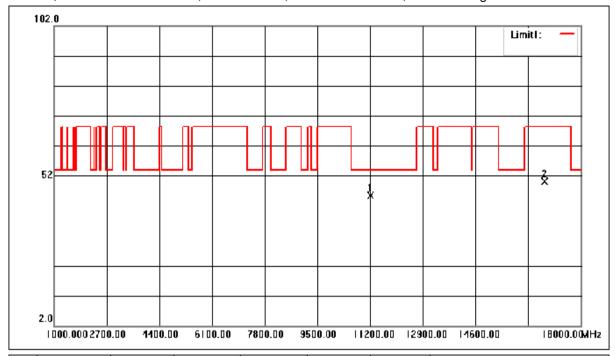
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11060.000	46.45	-1.21	45.24	54.00	-8.76	peak
2	16590.000	50.50	0.23	50.73	68.30	-17.57	peak





Page: 124 of 233

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



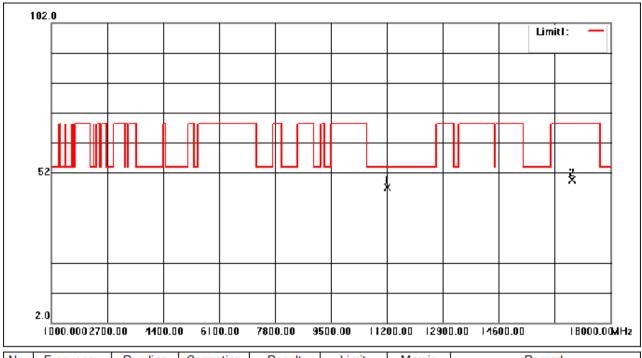
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11220.000	47.06	-1.59	45.47	54.00	-8.53	peak
2	16830.000	50.15	0.10	50.25	68.30	-18.05	peak





Page: 125 of 233

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



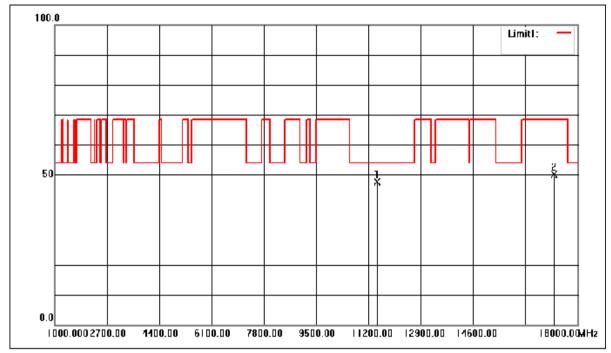
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11220.000	48.83	-1.59	47.24	54.00	-6.76	peak
Ī	2	16830.000	49.44	0.10	49.54	68.30	-18.76	peak





Page: 126 of 233

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



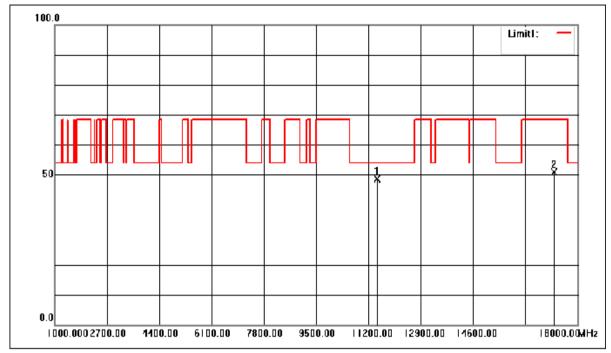
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	49.93	-2.24	47.69	54.00	-6.31	peak
2	17235.000	50.21	-0.19	50.02	68.30	-18.28	peak





Page: 127 of 233

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



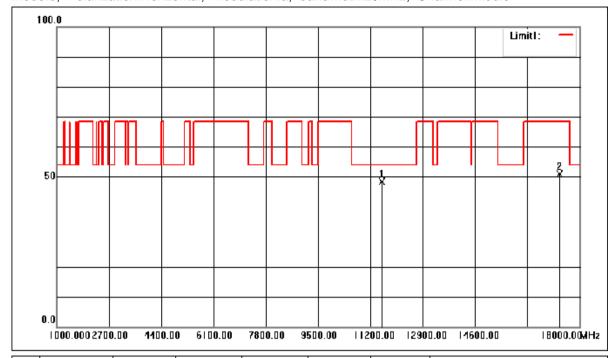
1	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
•	1	11490.000	50.99	-2.24	48.75	54.00	-5.25	peak
2	2	17235.000	51.10	-0.19	50.91	68.30	-17.39	peak





Page: 128 of 233

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



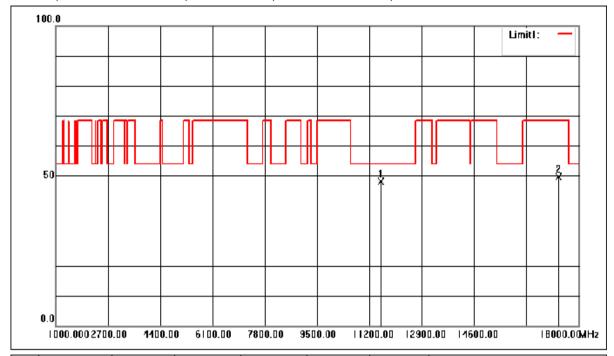
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11570.000	50.77	-2.33	48.44	54.00	-5.56	peak
Ī	2	17355.000	51.25	-0.29	50.96	68.30	-17.34	peak





Page: 129 of 233

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



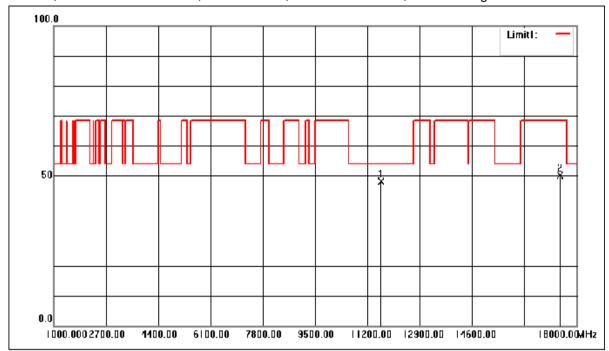
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11570.000	50.37	-2.33	48.04	54.00	-5.96	peak
Ī	2	17355.000	49.84	-0.29	49.55	68.30	-18.75	peak





Page: 130 of 233

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



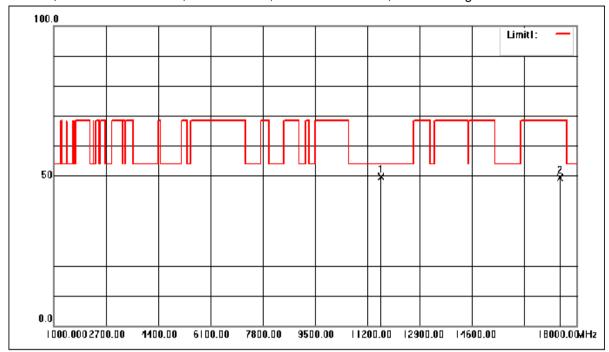
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.57	-2.40	48.17	54.00	-5.83	peak
2	17475.000	50.58	-0.39	50.19	68.30	-18.11	peak





Page: 131 of 233

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



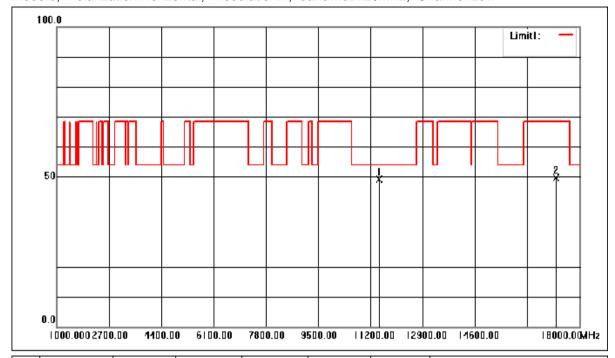
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	51.91	-2.40	49.51	54.00	-4.49	peak
2	17475.000	49.69	-0.39	49.30	68.30	-19.00	peak





Page: 132 of 233

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



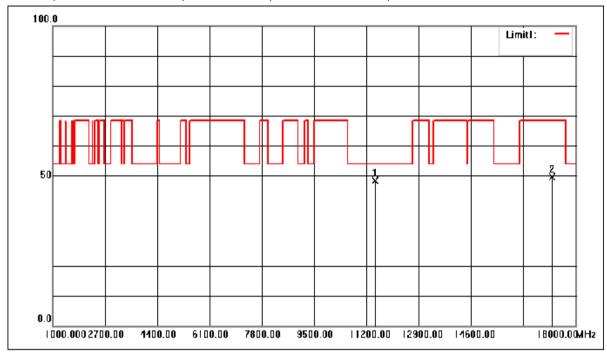
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11490.000	51.44	-2.24	49.20	54.00	-4.80	peak
2	17235.000	49.82	-0.19	49.63	68.30	-18.67	peak





Page: 133 of 233

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



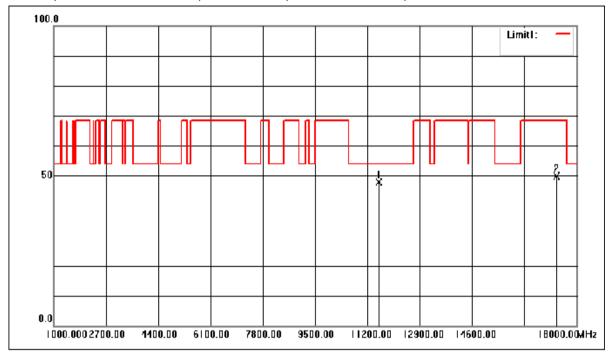
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	50.74	-2.24	48.50	54.00	-5.50	peak
2	17235.000	49.73	-0.19	49.54	68.30	-18.76	peak





Page: 134 of 233

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



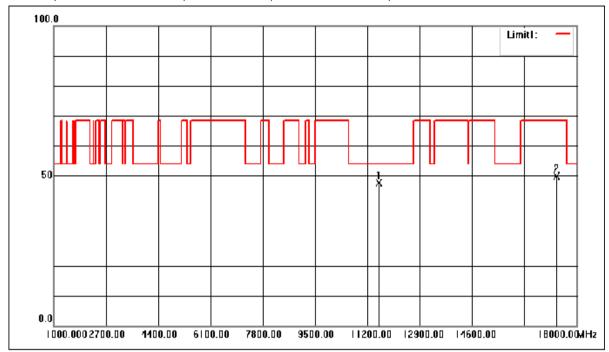
-	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11570.000	50.16	-2.33	47.83	54.00	-6.17	peak
	2	17355.000	50.25	-0.29	49.96	68.30	-18.34	peak





Page: 135 of 233

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



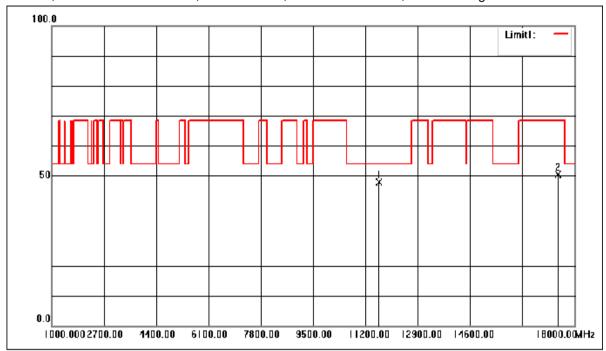
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11570.000	50.06	-2.33	47.73	54.00	-6.27	peak
ſ	2	17355.000	50.24	-0.29	49.95	68.30	-18.35	peak





Page: 136 of 233

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.30	-2.40	47.90	54.00	-6.10	peak
2	17475.000	50.65	-0.39	50.26	68.30	-18.04	peak





Page: 137 of 233

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



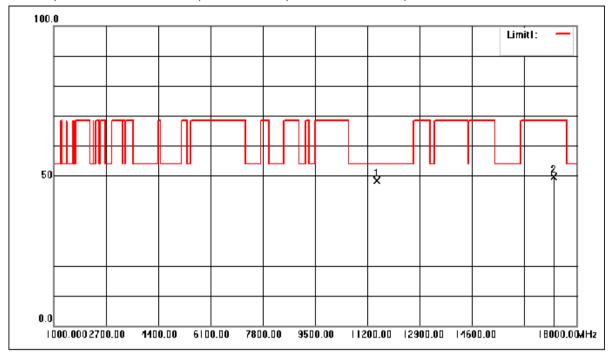
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11650.000	50.32	-2.40	47.92	54.00	-6.08	peak
2	17475.000	50.68	-0.39	50.29	68.30	-18.01	peak





Page: 138 of 233

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



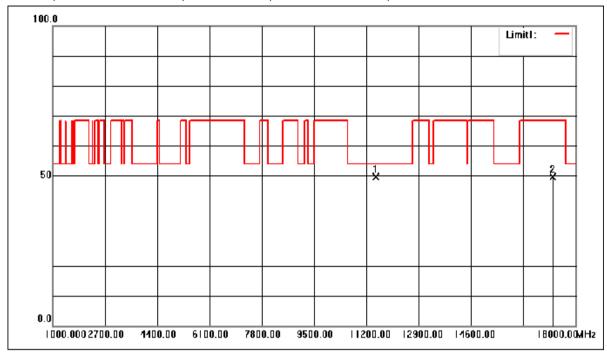
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	50.68	-2.27	48.41	54.00	-5.59	peak
2	17265.000	49.91	-0.22	49.69	68.30	-18.61	peak





Page: 139 of 233

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



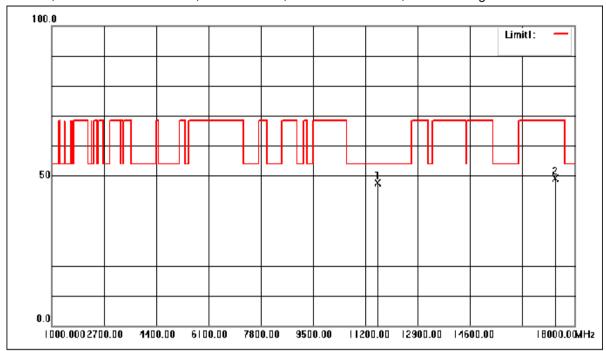
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11510.000	51.79	-2.27	49.52	54.00	-4.48	peak
2	17265.000	49.92	-0.22	49.70	68.30	-18.60	peak





Page: 140 of 233

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



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	49.89	-2.34	47.55	54.00	-6.45	peak
2	17385.000	49.38	-0.32	49.06	68.30	-19.24	peak





Page: 141 of 233

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



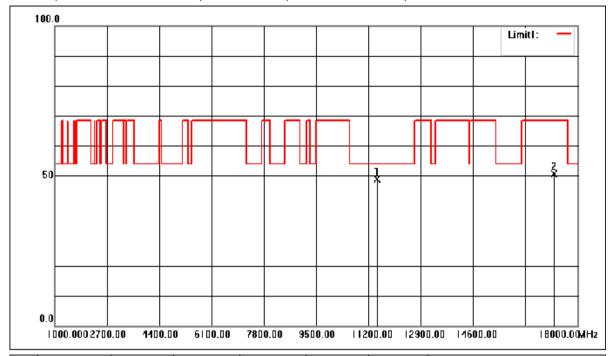
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11590.000	49.50	-2.34	47.16	54.00	-6.84	peak
2	17385.000	51.01	-0.32	50.69	68.30	-17.61	peak





Page: 142 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



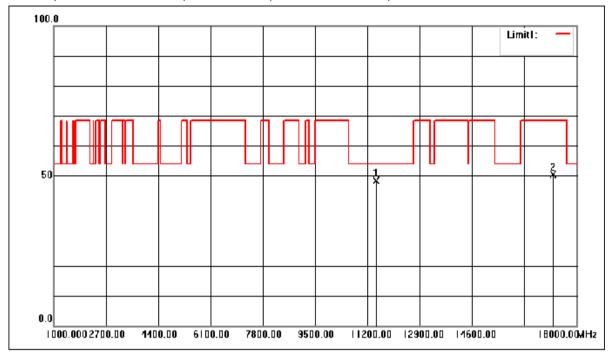
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11490.000	51.17	-2.24	48.93	54.00	-5.07	peak
2	17235.000	50.91	-0.19	50.72	68.30	-17.58	peak





Page: 143 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



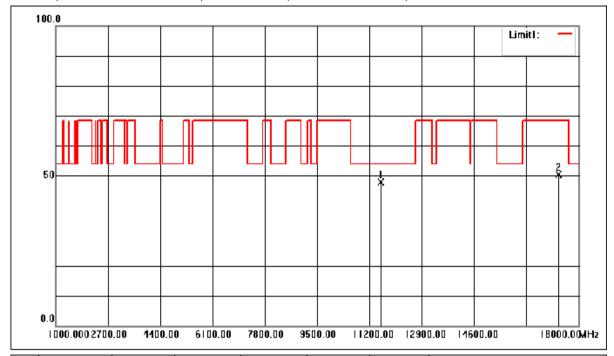
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11490.000	50.60	-2.24	48.36	54.00	-5.64	peak
2	17235.000	50.65	-0.19	50.46	68.30	-17.84	peak





Page: 144 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



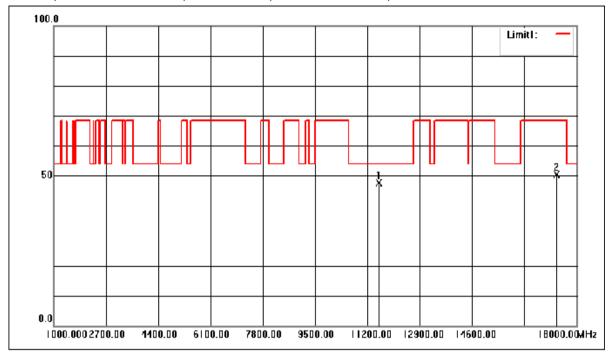
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11570.000	50.31	-2.33	47.98	54.00	-6.02	peak
ſ	2	17355.000	50.64	-0.29	50.35	68.30	-17.95	peak





Page: 145 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



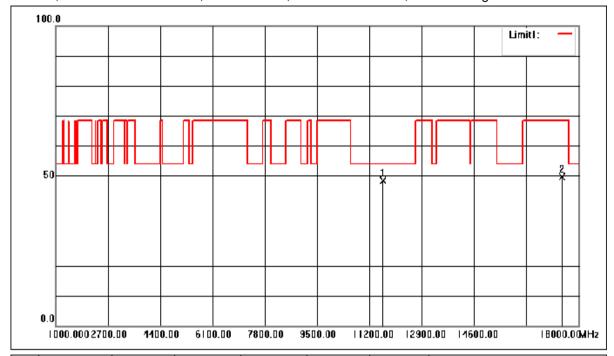
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11570.000	49.90	-2.33	47.57	54.00	-6.43	peak
2	17355.000	50.57	-0.29	50.28	68.30	-18.02	peak





Page: 146 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11650.000	50.66	-2.40	48.26	54.00	-5.74	peak
2	17475.000	49.98	-0.39	49.59	68.30	-18.71	peak





Page: 147 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



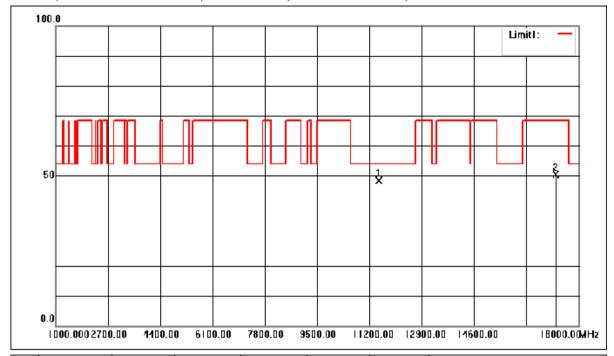
N	lo.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1		11650.000	49.74	-2.40	47.34	54.00	-6.66	peak
2		17475.000	49.71	-0.39	49.32	68.30	-18.98	peak





Page: 148 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



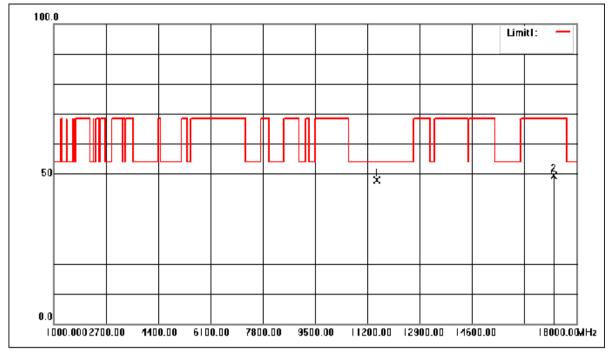
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	11510.000	50.66	-2.27	48.39	54.00	-5.61	peak
Ī	2	17265.000	50.58	-0.22	50.36	68.30	-17.94	peak





Page: 149 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



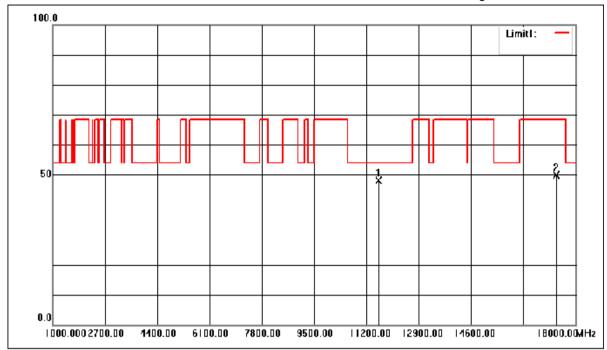
	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
	1	11510.000	50.20	-2.27	47.93	54.00	-6.07	peak
Ī	2	17265.000	49.49	-0.22	49.27	68.30	-19.03	peak





Page: 150 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



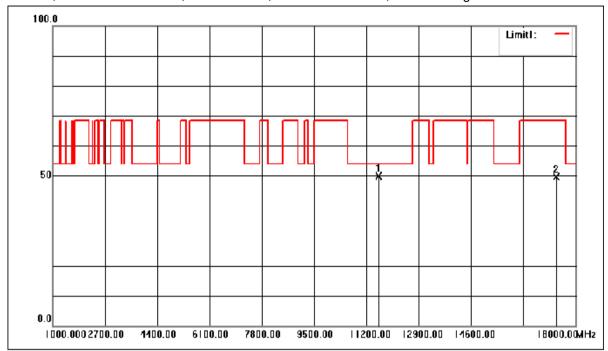
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	50.55	-2.34	48.21	54.00	-5.79	peak
2	17385.000	50.13	-0.32	49.81	68.30	-18.49	peak





Page: 151 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



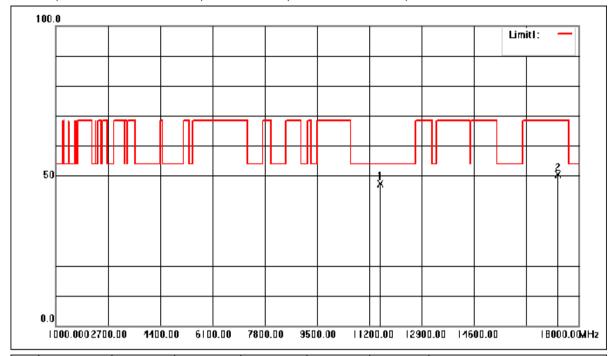
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11590.000	52.33	-2.34	49.99	54.00	-4.01	peak
2	17385.000	49.93	-0.32	49.61	68.30	-18.69	peak





Page: 152 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



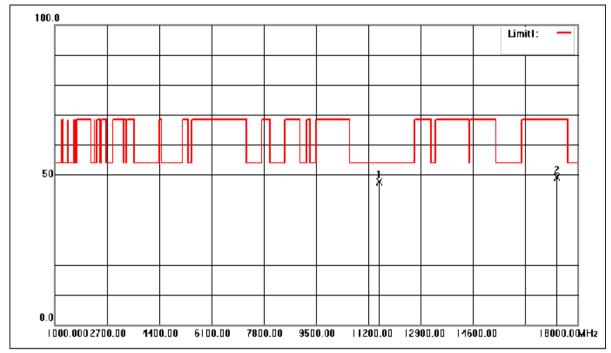
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	11550.000	49.79	-2.31	47.48	54.00	-6.52	peak
2	17325.000	50.67	-0.27	50.40	68.30	-17.90	peak





Page: 153 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	11550.000	49.95	-2.31	47.64	54.00	-6.36	peak
2	17325.000	49.49	-0.27	49.22	68.30	-19.08	peak



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Report No.: SHEM200700566002

Page: 154 of 233

7.9 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.



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Report No.: SHEM200700566002

Page: 155 of 233

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

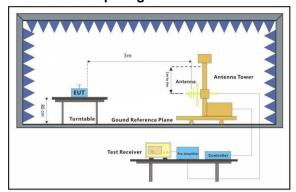
NO.588 West Jindu Road,Songjiang District,Shanghai,China 201612 中国・上海・松江区金都西路588号 邮编: 201612 t(86-21) 61915666 f(86-21) 61915678 www.sgsgroup.com.cn t(86-21) 61915666 f(86-21) 61915678 e sgs.china@sgs.com

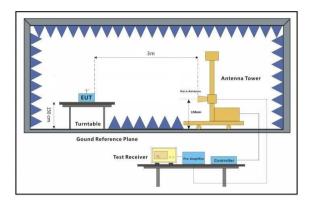


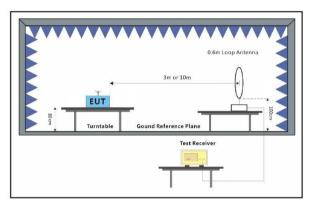


Report No.: SHEM200700566002 Page: 156 of 233

7.9.2 Test Setup Diagram







SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Report No.: SHEM200700566002

Page: 157 of 233

7.9.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

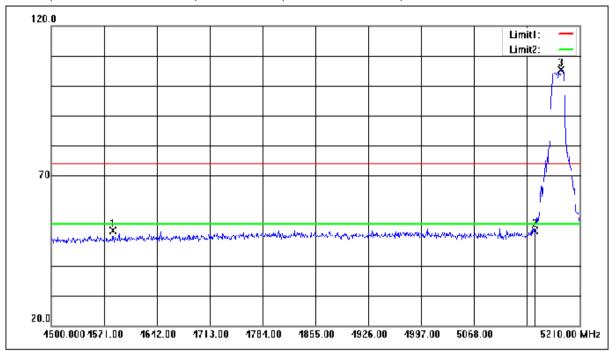
Remark 3: This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for b/g modulation and MIMO antenna operation for n modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.





Page: 158 of 233





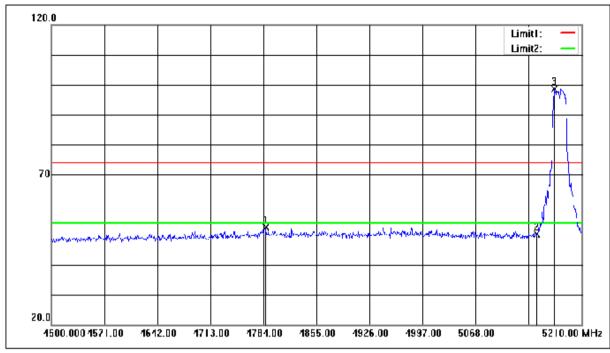
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4582.360	51.57	0.02	51.59	74.00	-22.41	peak
2	5150.000	50.60	1.05	51.65	74.00	-22.35	peak
3	5185.150	104.38	1.07	105.45	74.00	31.45	peak





Page: 159 of 233





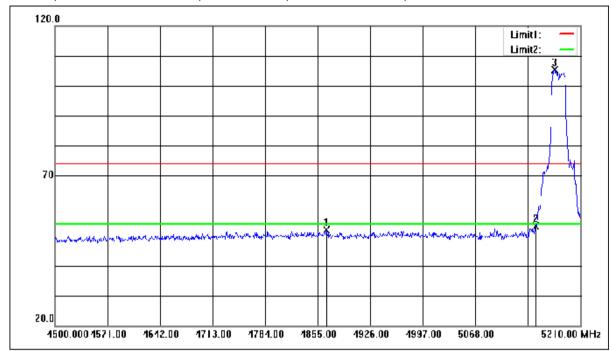
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4786.840	51.85	0.48	52.33	74.00	-21.67	peak
2	5150.000	48.97	1.05	50.02	74.00	-23.98	peak
3	5173.790	97.49	1.07	98.56	74.00	24.56	peak





Page: 160 of 233





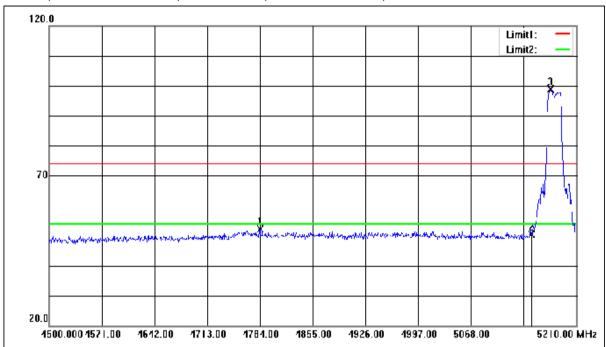
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4866.360	51.33	0.66	51.99	74.00	-22.01	peak
2	5150.000	52.14	1.05	53.19	74.00	-20.81	peak
3	5175.210	104.40	1.07	105.47	74.00	31.47	peak





Page: 161 of 233

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



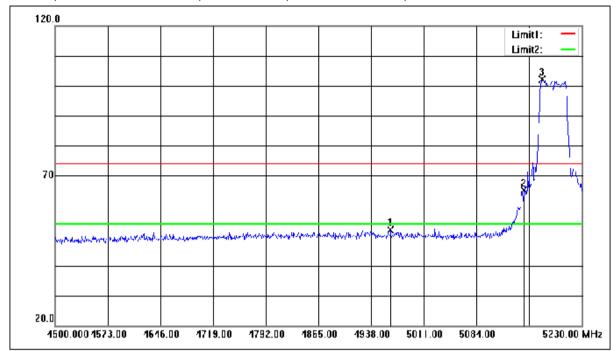
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4784.000	51.62	0.47	52.09	74.00	-21.91	peak
2	5150.000	49.36	1.05	50.41	74.00	-23.59	peak
3	5175.210	97.77	1.07	98.84	74.00	24.84	peak





Page: 162 of 233





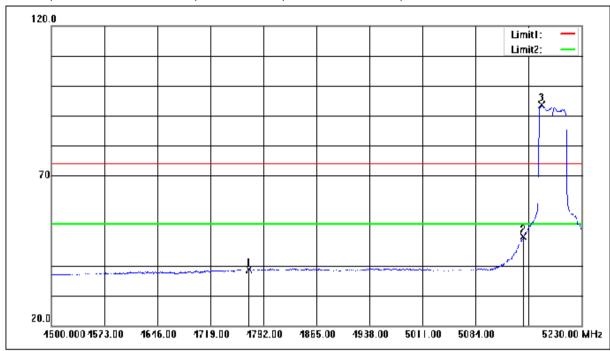
N	lo.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
1		4965.010	50.95	0.88	51.83	74.00	-22.17	peak
2		5150.000	64.07	1.05	65.12	74.00	-8.88	peak
3		5174.520	101.13	1.07	102.20	74.00	28.20	peak





Page: 163 of 233



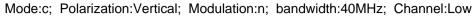


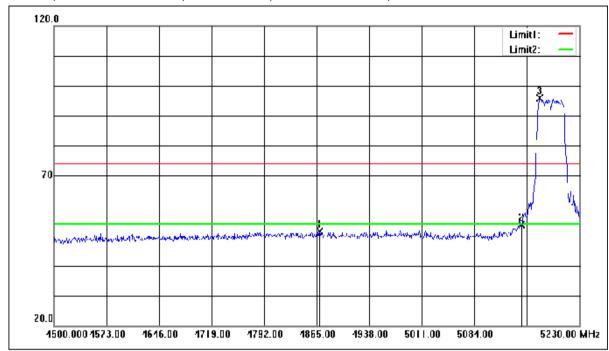
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	4772.290	38.22	0.45	38.67	54.00	-15.33	AVG
	2	5150.000	48.59	1.05	49.64	54.00	-4.36	AVG
Γ	3	5175.250	92.49	1.07	93.56	54.00	39.56	AVG





Page: 164 of 233





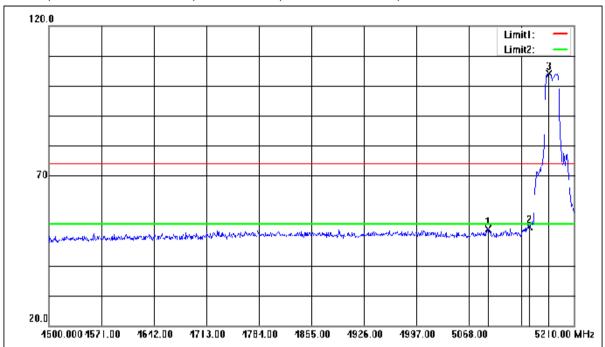
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4869.380	50.70	0.66	51.36	74.00	-22.64	peak
2	5150.000	52.54	1.05	53.59	74.00	-20.41	peak
3	5175.250	94.85	1.07	95.92	74.00	21.92	peak





Page: 165 of 233

Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low

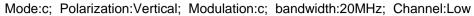


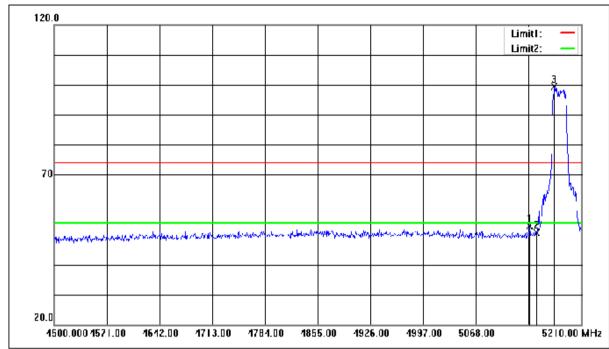
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5093.560	51.22	1.02	52.24	74.00	-21.76	peak
2	5150.000	51.71	1.05	52.76	74.00	-21.24	peak
3	5176.630	103.13	1.07	104.20	74.00	30.20	peak





Page: 166 of 233





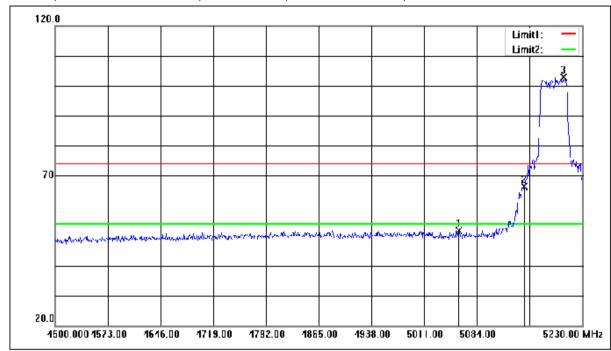
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5140.420	51.75	1.05	52.80	74.00	-21.20	peak
2	5150.000	49.48	1.05	50.53	74.00	-23.47	peak
3	5173.790	98.32	1.07	99.39	74.00	25.39	peak





Page: 167 of 233





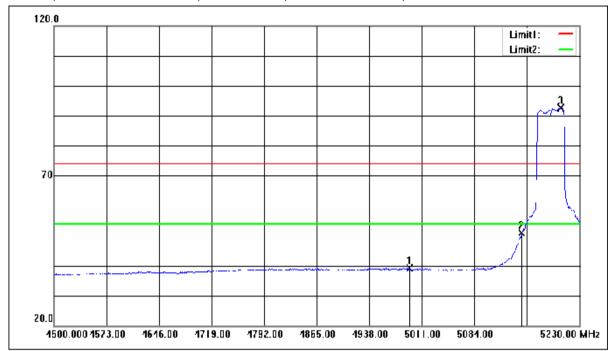
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5059.180	50.74	1.00	51.74	74.00	-22.26	peak
2	5150.000	65.26	1.05	66.31	74.00	-7.69	peak
3	5204.450	101.83	1.09	102.92	74.00	28.92	peak





Page: 168 of 233



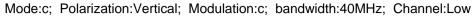


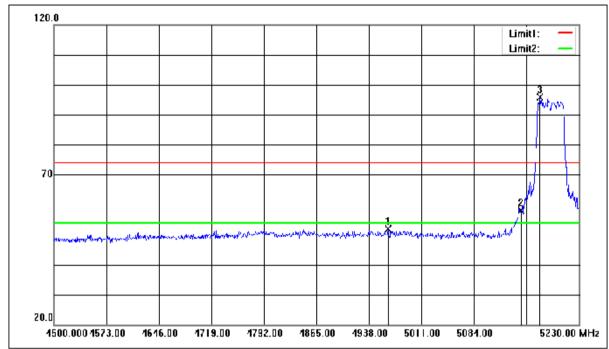
ſ	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	4993.480	38.13	0.95	39.08	54.00	-14.92	AVG
	2	5150.000	49.90	1.05	50.95	54.00	-3.05	AVG
	3	5204.450	91.63	1.09	92.72	54.00	38.72	AVG





Page: 169 of 233





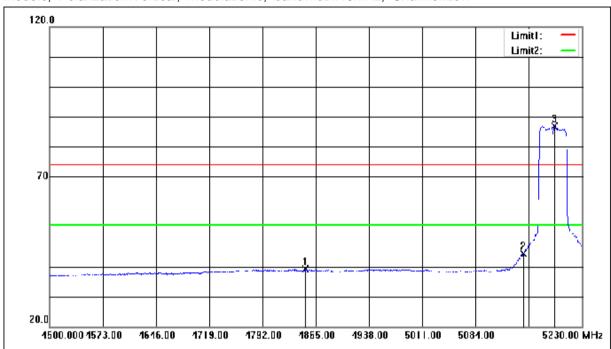
ſ	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	4964.280	50.92	0.88	51.80	74.00	-22.20	peak
	2	5150.000	57.12	1.05	58.17	74.00	-15.83	peak
Ī	3	5175.980	94.77	1.07	95.84	74.00	21.84	peak





Page: 170 of 233

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



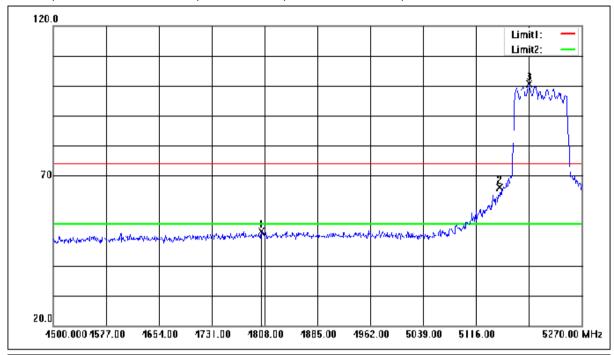
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4851.130	38.51	0.62	39.13	54.00	-14.87	AVG
2	5150.000	43.42	1.05	44.47	54.00	-9.53	AVG
3	5192.040	85.73	1.08	86.81	54.00	32.81	AVG





Page: 171 of 233





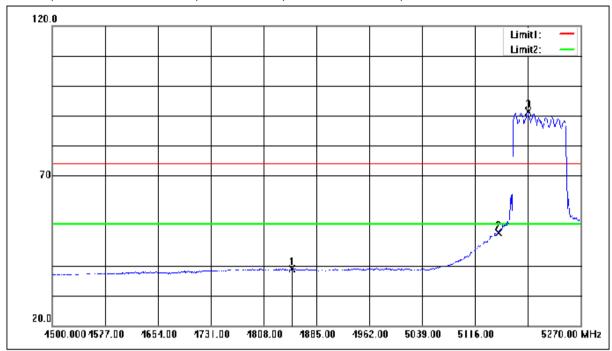
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4803.380	50.96	0.52	51.48	74.00	-22.52	peak
2	5150.000	65.18	1.05	66.23	74.00	-7.77	peak
3	5193.000	99.57	1.08	100.65	74.00	26.65	peak





Page: 172 of 233





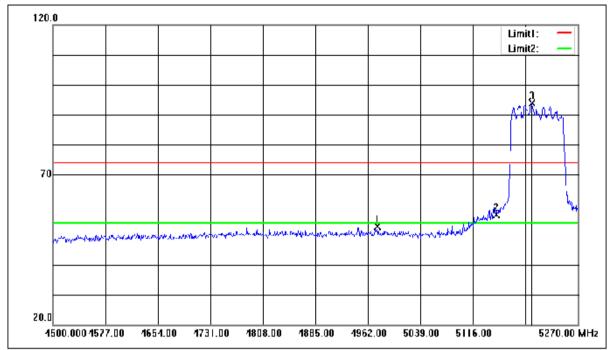
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4849.580	38.33	0.62	38.95	54.00	-15.05	AVG
2	5150.000	49.83	1.05	50.88	54.00	-3.12	AVG
3	5193.000	90.36	1.08	91.44	54.00	37.44	AVG





Page: 173 of 233

Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

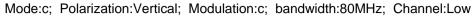


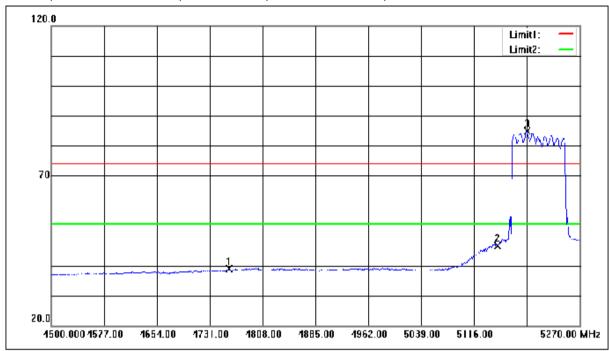
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	4975.860	51.71	0.91	52.62	74.00	-21.38	peak
2	5150.000	55.62	1.05	56.67	74.00	-17.33	peak
3	5202.240	92.84	1.09	93.93	74.00	19.93	peak





Page: 174 of 233





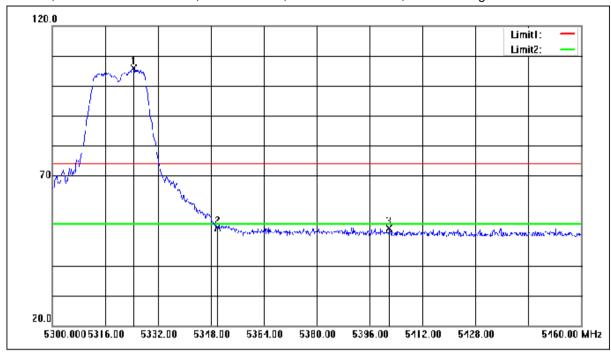
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	4758.720	38.47	0.41	38.88	54.00	-15.12	AVG
2	5150.000	45.64	1.05	46.69	54.00	-7.31	AVG
3	5193.000	83.80	1.08	84.88	54.00	30.88	AVG





Page: 175 of 233

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



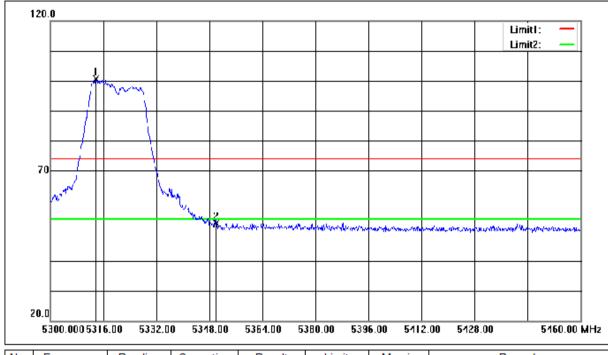
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5324.640	104.62	1.16	105.78	74.00	31.78	peak
2	5350.000	51.48	1.18	52.66	74.00	-21.34	peak
3	5401.920	51.27	1.21	52.48	74.00	-21.52	peak





Page: 176 of 233

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



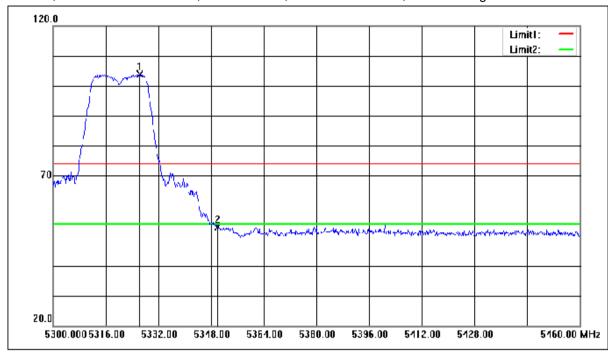
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5313.760	99.38	1.15	100.53	74.00	26.53	peak
2	5350.000	51.10	1.18	52.28	74.00	-21.72	peak





Page: 177 of 233

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



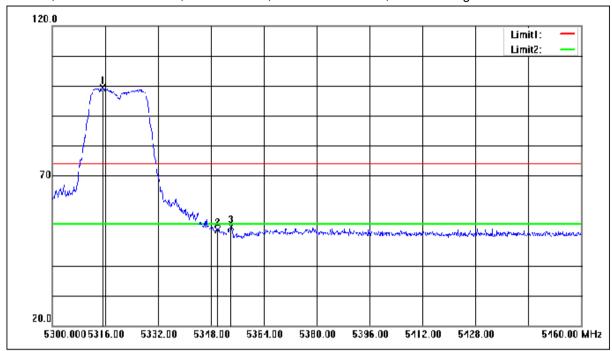
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5326.400	102.61	1.16	103.77	74.00	29.77	peak
2	5350.000	51.80	1.18	52.98	74.00	-21.02	peak





Page: 178 of 233

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



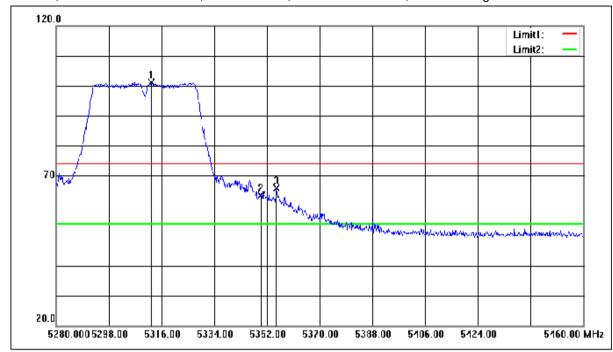
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5315.200	98.10	1.16	99.26	74.00	25.26	peak
2	5350.000	50.61	1.18	51.79	74.00	-22.21	peak
3	5354.080	51.67	1.18	52.85	74.00	-21.15	peak





Page: 179 of 233

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



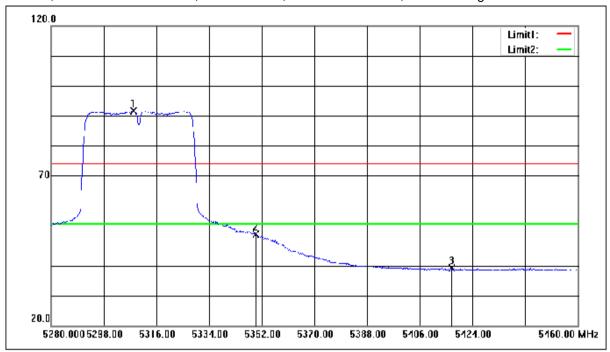
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5312.580	100.01	1.15	101.16	74.00	27.16	peak
2	5350.000	62.12	1.18	63.30	74.00	-10.70	peak
3	5355.240	64.72	1.18	65.90	74.00	-8.10	peak





Page: 180 of 233

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



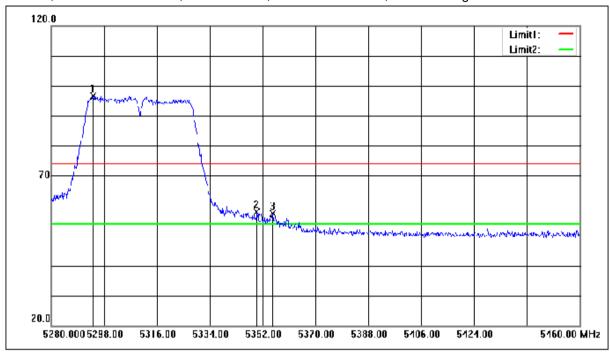
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5308.080	90.42	1.15	91.57	54.00	37.57	AVG
2	5350.000	49.30	1.18	50.48	54.00	-3.52	AVG
3	5416.800	37.81	1.22	39.03	54.00	-14.97	AVG





Page: 181 of 233

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



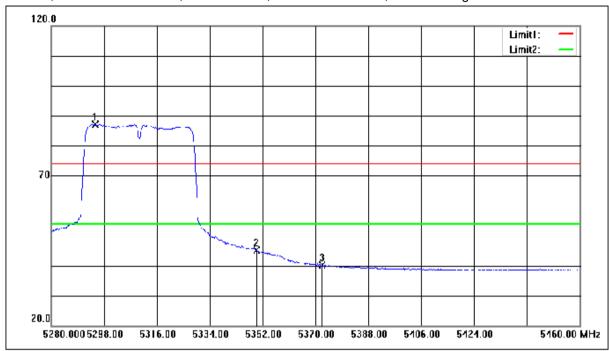
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5294.220	95.48	1.14	96.62	74.00	22.62	peak
2	5350.000	56.78	1.18	57.96	74.00	-16.04	peak
3	5355.420	56.30	1.18	57.48	74.00	-16.52	peak





Page: 182 of 233

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



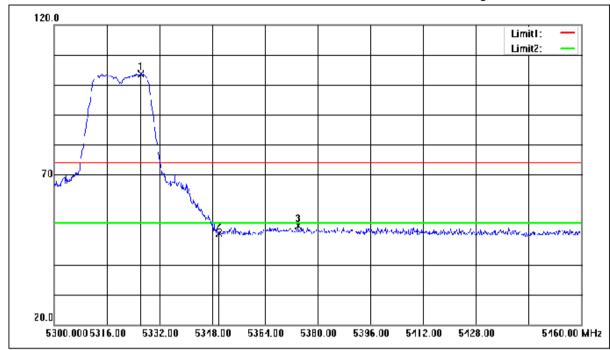
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5294.940	86.08	1.14	87.22	54.00	33.22	AVG
2	5350.000	44.03	1.18	45.21	54.00	-8.79	AVG
3	5372.160	38.98	1.19	40.17	54.00	-13.83	AVG





Page: 183 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



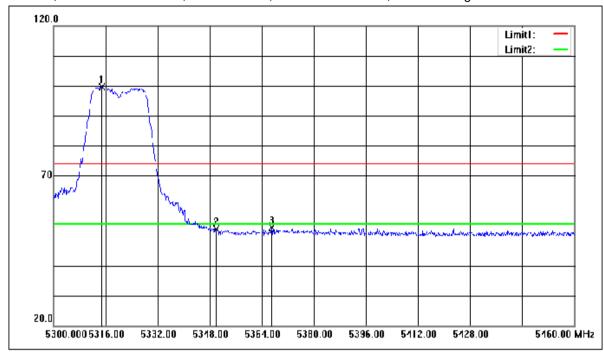
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5326.400	102.55	1.16	103.71	74.00	29.71	peak
2	5350.000	49.21	1.18	50.39	74.00	-23.61	peak
3	5374.080	51.76	1.19	52.95	74.00	-21.05	peak





Page: 184 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



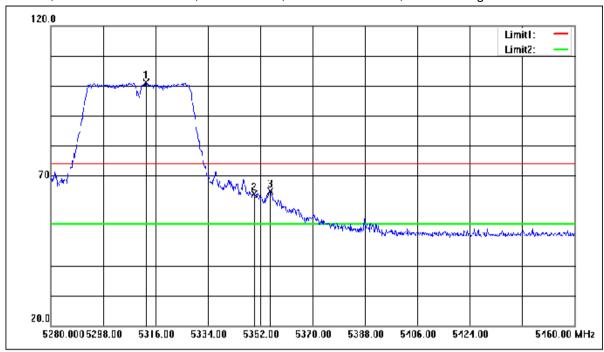
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5314.880	98.40	1.16	99.56	74.00	25.56	peak
2	5350.000	50.93	1.18	52.11	74.00	-21.89	peak
3	5367.040	51.48	1.19	52.67	74.00	-21.33	peak





Page: 185 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



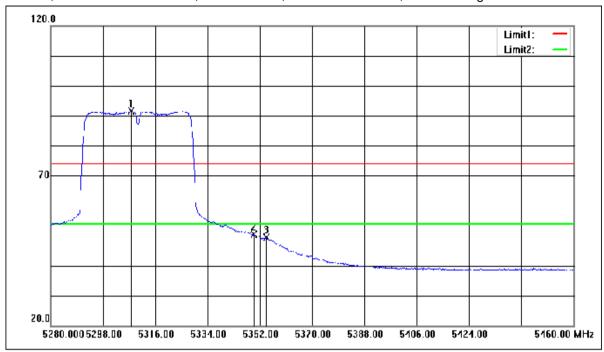
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	5312.760	99.91	1.15	101.06	74.00	27.06	peak
ſ	2	5350.000	62.61	1.18	63.79	74.00	-10.21	peak
ſ	3	5355.420	63.81	1.18	64.99	74.00	-9.01	peak





Page: 186 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



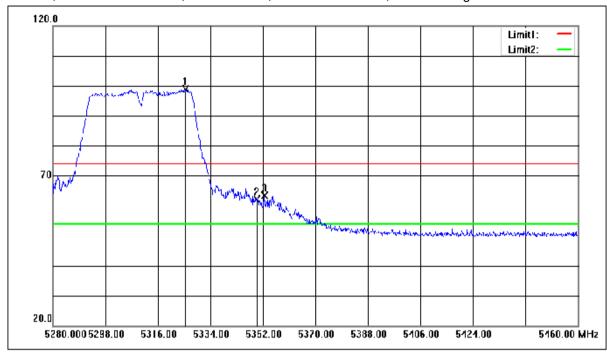
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5307.720	90.43	1.15	91.58	54.00	37.58	AVG
2	5350.000	49.10	1.18	50.28	54.00	-3.72	AVG
3	5354.340	48.22	1.18	49.40	54.00	-4.60	AVG





Page: 187 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



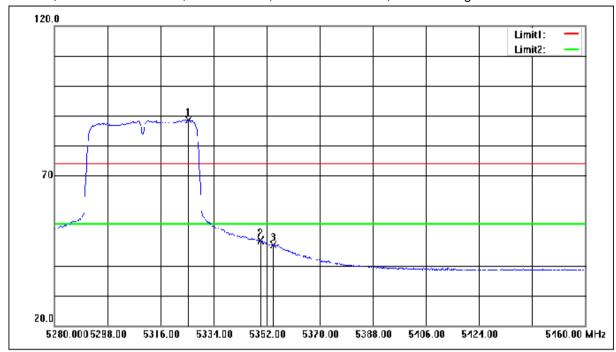
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5325.540	97.70	1.16	98.86	74.00	24.86	peak
2	5350.000	60.85	1.18	62.03	74.00	-11.97	peak
3	5352.540	62.09	1.18	63.27	74.00	-10.73	peak





Page: 188 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



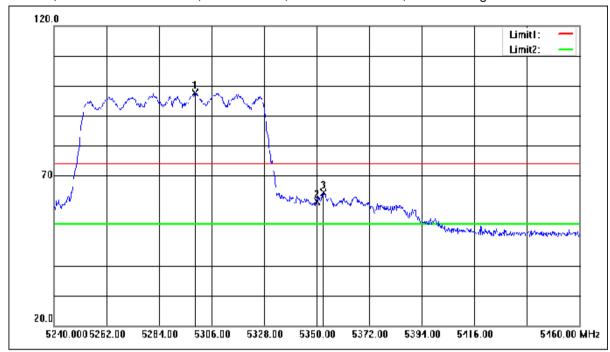
No	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5325.360	87.51	1.16	88.67	54.00	34.67	AVG
2	5350.000	47.10	1.18	48.28	54.00	-5.72	AVG
3	5354.340	45.60	1.18	46.78	54.00	-7.22	AVG





Page: 189 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



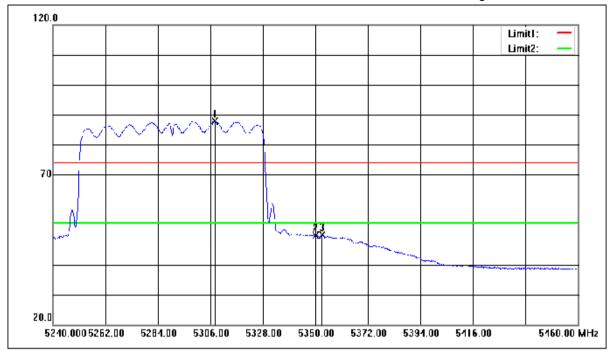
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5299.180	96.45	1.15	97.60	74.00	23.60	peak
2	5350.000	60.30	1.18	61.48	74.00	-12.52	peak
3	5352.640	63.15	1.18	64.33	74.00	-9.67	peak





Page: 190 of 233

Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



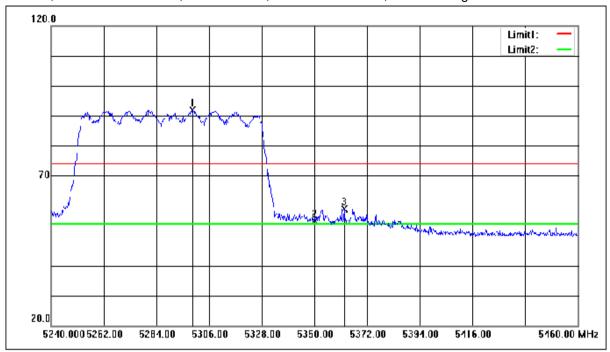
ſ	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
L		(MHz)	()	factor()	()	()	(dB)	
	1	5307.980	86.85	1.15	88.00	54.00	34.00	AVG
	2	5350.000	48.33	1.18	49.51	54.00	-4.49	AVG
Ī	3	5352.860	48.75	1.18	49.93	54.00	-4.07	AVG





Page: 191 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



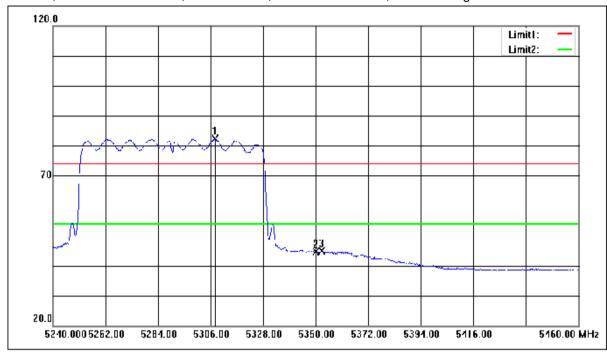
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5299.180	90.81	1.15	91.96	74.00	17.96	peak
2	5350.000	53.70	1.18	54.88	74.00	-19.12	peak
3	5362.320	57.61	1.18	58.79	74.00	-15.21	peak





Page: 192 of 233

Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



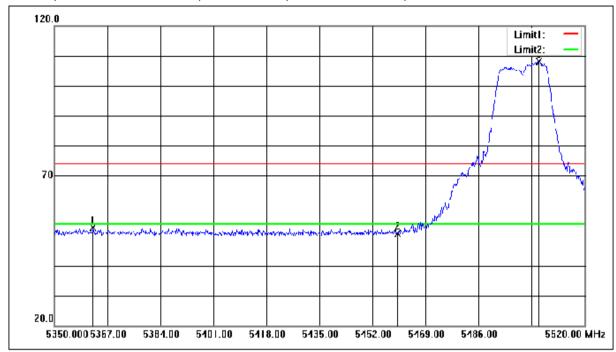
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5307.980	81.16	1.15	82.31	54.00	28.31	AVG
2	5350.000	43.49	1.18	44.67	54.00	-9.33	AVG
3	5352.420	43.73	1.18	44.91	54.00	-9.09	AVG





Page: 193 of 233

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



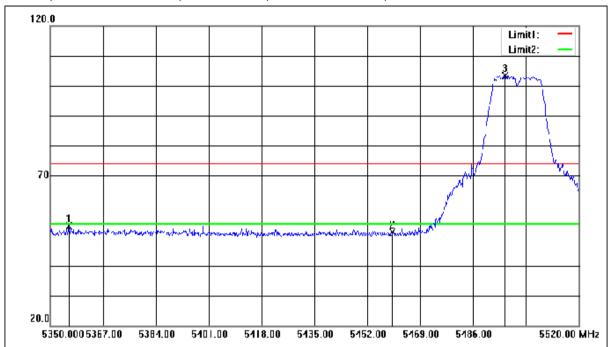
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5362.410	51.55	1.18	52.73	74.00	-21.27	peak
2	5460.000	49.50	1.25	50.75	74.00	-23.25	peak
3	5505.380	106.87	1.30	108.17	74.00	34.17	peak





Page: 194 of 233





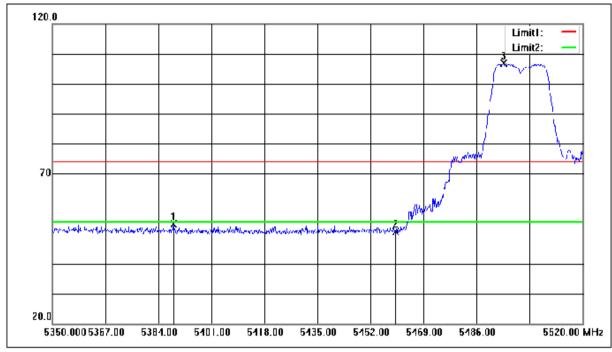
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5355.950	51.99	1.18	53.17	74.00	-20.83	peak
2	5460.000	49.80	1.25	51.05	74.00	-22.95	peak
3	5496.370	102.22	1.27	103.49	74.00	29.49	peak





Page: 195 of 233

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



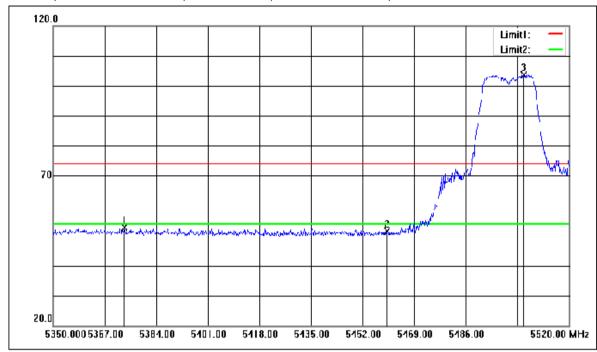
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	0	factor()	()	0	(dB)	
1	5388.760	51.98	1.20	53.18	74.00	-20.82	peak
2	5460.000	49.44	1.25	50.69	74.00	-23.31	peak
3	5494.670	105.54	1.27	106.81	74.00	32.81	peak





Page: 196 of 233

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



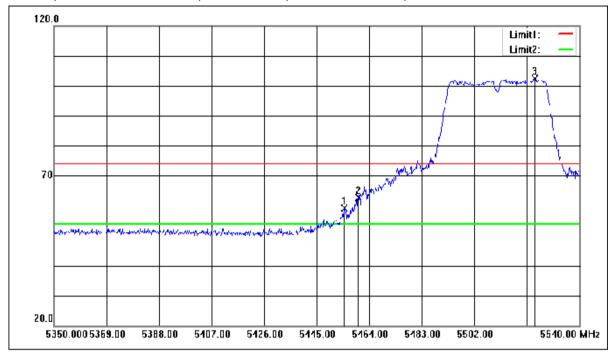
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5373.460	51.55	1.19	52.74	74.00	-21.26	peak
2	5460.000	50.06	1.25	51.31	74.00	-22.69	peak
3	5505.210	102.39	1.30	103.69	74.00	29.69	peak





Page: 197 of 233

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



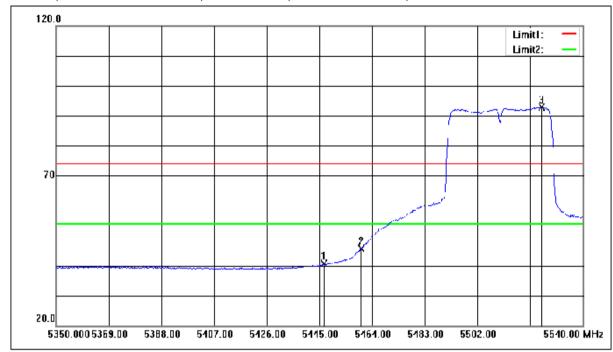
	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	()	factor()	()	()	(dB)	
	1	5455.070	57.92	1.24	59.16	74.00	-14.84	peak
	2	5460.000	61.28	1.25	62.53	74.00	-11.47	peak
ĺ	3	5523.850	100.98	1.42	102.40	74.00	28.40	peak





Page: 198 of 233

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



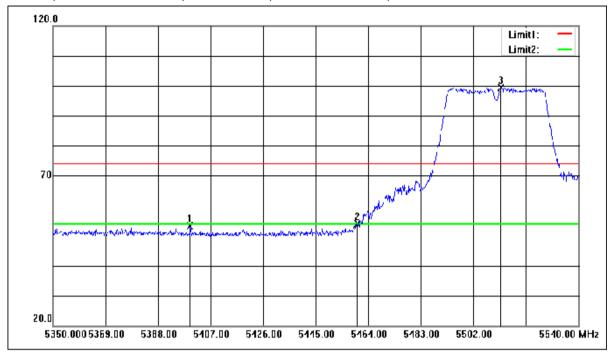
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5446.710	39.46	1.24	40.70	54.00	-13.30	AVG
2	5460.000	44.45	1.25	45.70	54.00	-8.30	AVG
3	5525.180	91.44	1.43	92.87	54.00	38.87	AVG





Page: 199 of 233

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



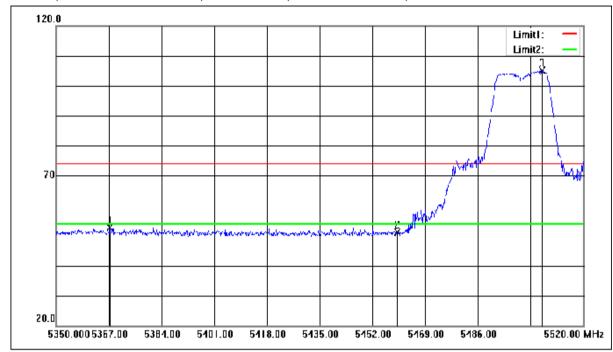
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5399.590	51.92	1.21	53.13	74.00	-20.87	peak
2	5460.000	52.54	1.25	53.79	74.00	-20.21	peak
3	5512.070	98.12	1.35	99.47	74.00	25.47	peak





Page: 200 of 233

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



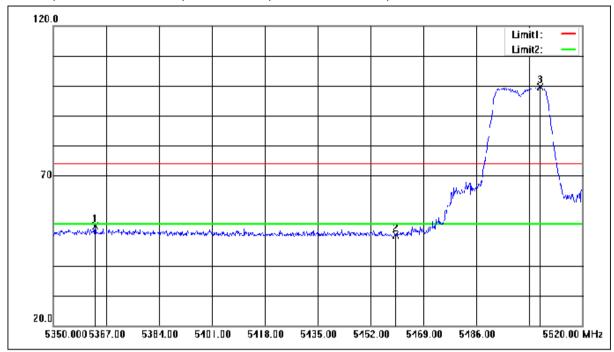
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5367.340	51.44	1.19	52.63	74.00	-21.37	peak
2	5460.000	50.00	1.25	51.25	74.00	-22.75	peak
3	5506.740	103.75	1.31	105.06	74.00	31.06	peak





Page: 201 of 233

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



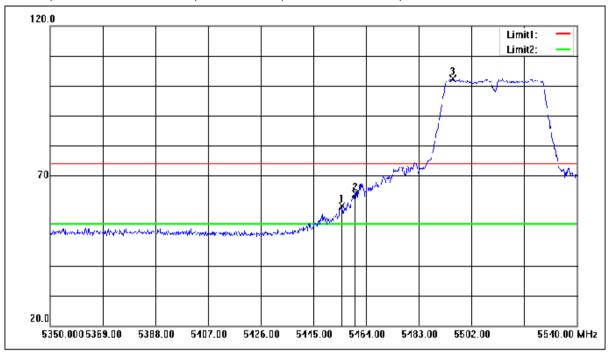
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5363.430	51.84	1.19	53.03	74.00	-20.97	peak
2	5460.000	48.82	1.25	50.07	74.00	-23.93	peak
3	5506.400	98.28	1.31	99.59	74.00	25.59	peak





Page: 202 of 233

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



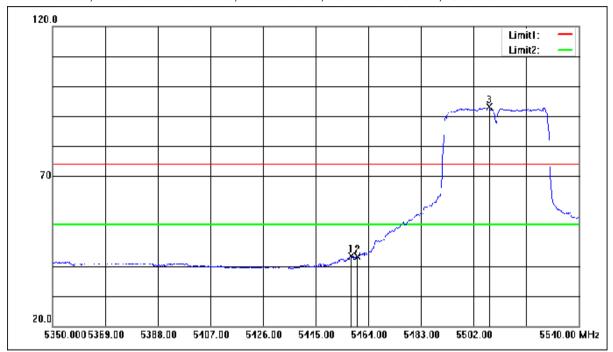
	No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
ľ	1	5455.260	58.67	1.24	59.91	74.00	-14.09	peak
	2	5460.000	62.54	1.25	63.79	74.00	-10.21	peak
	3	5495.160	101.20	1.27	102.47	74.00	28.47	peak





Page: 203 of 233

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



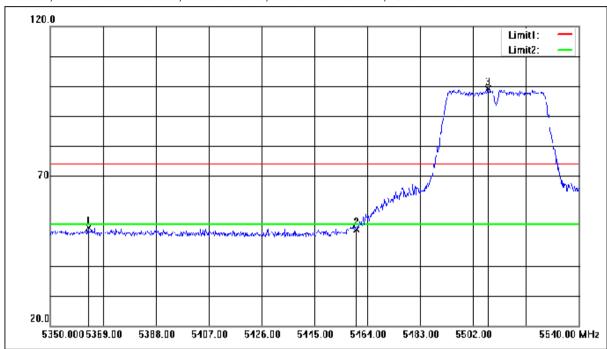
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5457.730	42.26	1.24	43.50	54.00	-10.50	AVG
2	5460.000	41.95	1.25	43.20	54.00	-10.80	AVG
3	5507.700	91.74	1.32	93.06	54.00	39.06	AVG





Page: 204 of 233





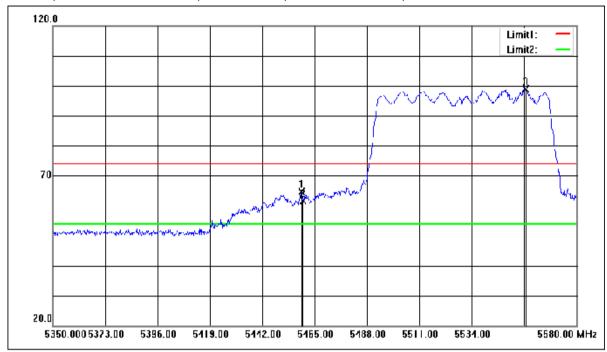
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5363.680	51.33	1.19	52.52	74.00	-21.48	peak
2	5460.000	50.98	1.25	52.23	74.00	-21.77	peak
3	5507.320	97.73	1.32	99.05	74.00	25.05	peak





Page: 205 of 233

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



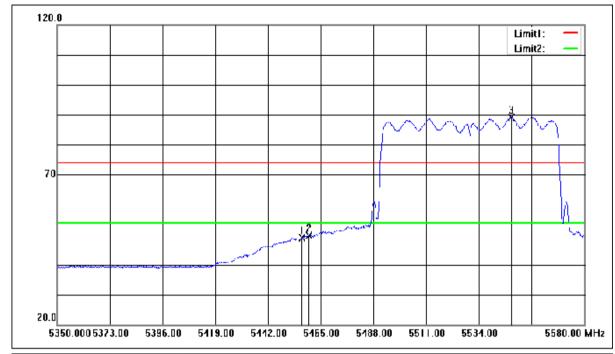
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5459.250	63.32	1.24	64.56	74.00	-9.44	peak
2	5460.000	60.44	1.25	61.69	74.00	-12.31	peak
3	5557.690	97.34	1.63	98.97	74.00	24.97	peak





Page: 206 of 233

Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



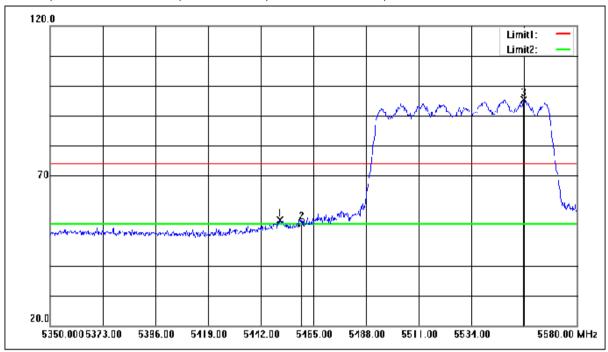
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5456.950	47.59	1.24	48.83	54.00	-5.17	AVG
2	5460.000	48.50	1.25	49.75	54.00	-4.25	AVG
3	5548.260	87.66	1.58	89.24	54.00	35.24	AVG





Page: 207 of 233

Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low

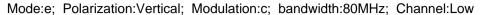


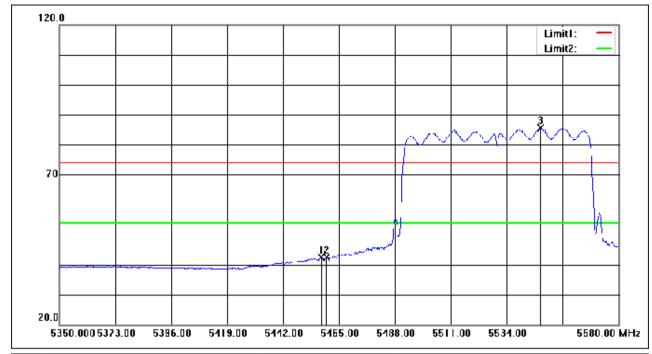
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5450.280	53.79	1.24	55.03	74.00	-18.97	peak
2	5460.000	52.77	1.25	54.02	74.00	-19.98	peak
3	5556.770	93.65	1.63	95.28	74.00	21.28	peak





Page: 208 of 233





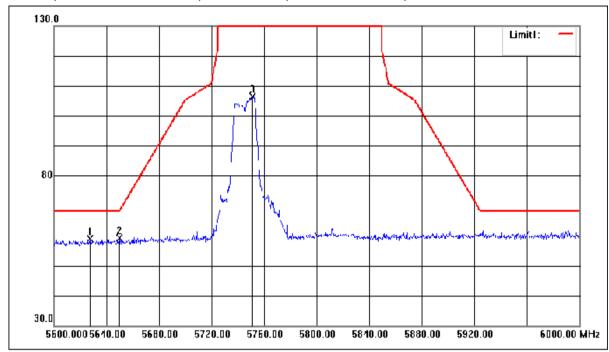
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5457.870	41.08	1.24	42.32	54.00	-11.68	AVG
2	5460.000	41.13	1.25	42.38	54.00	-11.62	AVG
3	5548.030	84.10	1.57	85.67	54.00	31.67	AVG





Page: 209 of 233

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



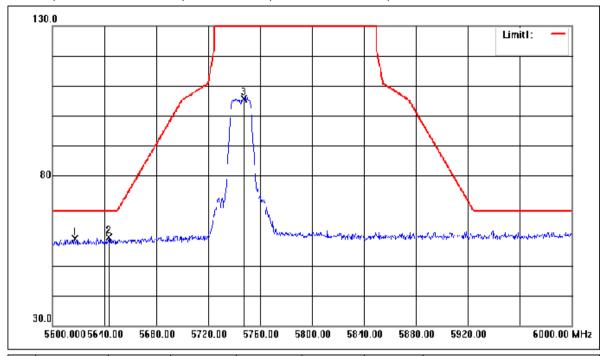
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5627.600	56.72	2.08	58.80	68.20	-9.40	peak
2	5650.000	56.79	2.22	59.01	68.20	-9.19	peak
3	5751.200	103.64	2.86	106.50	135.00	-28.50	peak





Page: 210 of 233

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



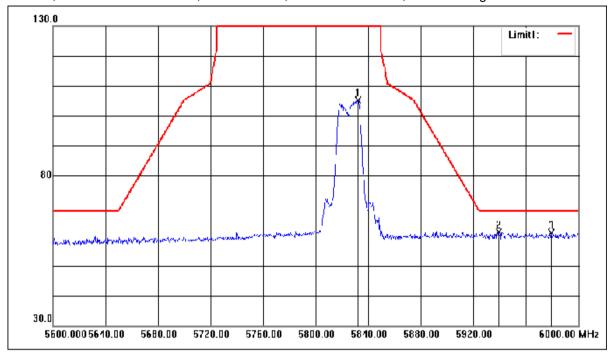
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5617.200	56.86	2.01	58.87	68.20	-9.33	peak
2	5643.200	57.08	2.18	59.26	68.20	-8.94	peak
3	5747.200	102.86	2.83	105.69	135.00	-29.31	peak





Page: 211 of 233

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



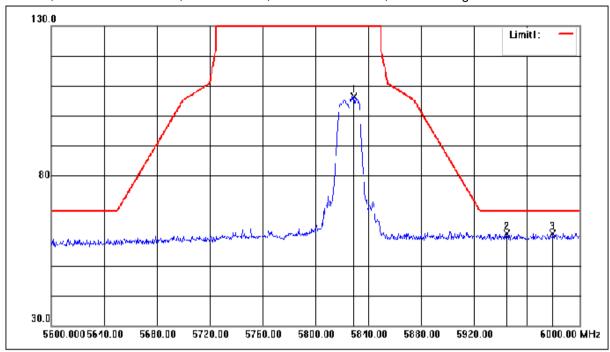
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5832.000	101.80	3.37	105.17	135.00	-29.83	peak
2	5939.200	56.97	4.05	61.02	68.20	-7.18	peak
3	5979.200	56.62	4.30	60.92	68.20	-7.28	peak





Page: 212 of 233

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



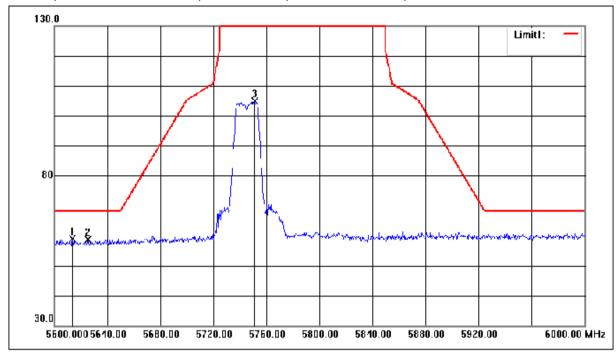
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5829.200	102.99	3.35	106.34	135.00	-28.66	peak
2	5944.800	56.60	4.08	60.68	68.20	-7.52	peak
3	5979.600	56.45	4.30	60.75	68.20	-7.45	peak





Page: 213 of 233

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



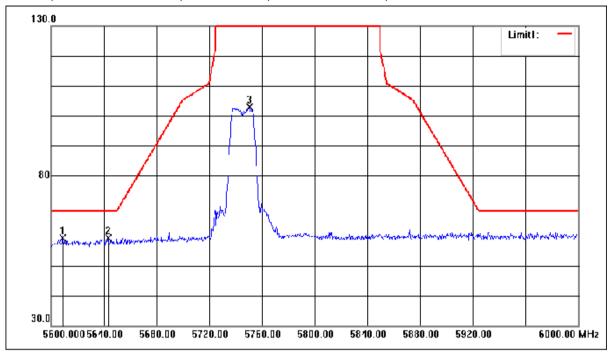
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5613.600	56.98	1.99	58.97	68.20	-9.23	peak
2	5625.200	56.67	2.06	58.73	68.20	-9.47	peak
3	5751.200	101.94	2.86	104.80	135.00	-30.20	peak





Page: 214 of 233

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



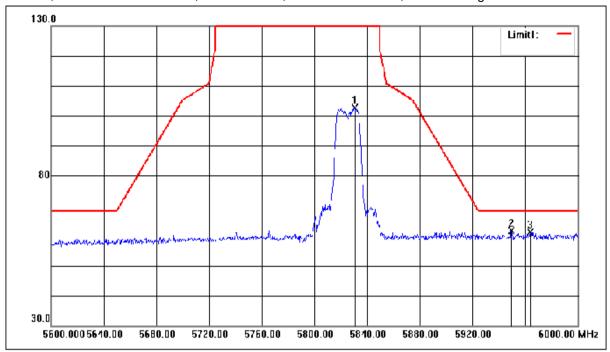
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5608.800	57.24	1.96	59.20	68.20	-9.00	peak
2	5643.200	56.90	2.18	59.08	68.20	-9.12	peak
3	5750.800	99.92	2.86	102.78	135.00	-32.22	peak





Page: 215 of 233

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



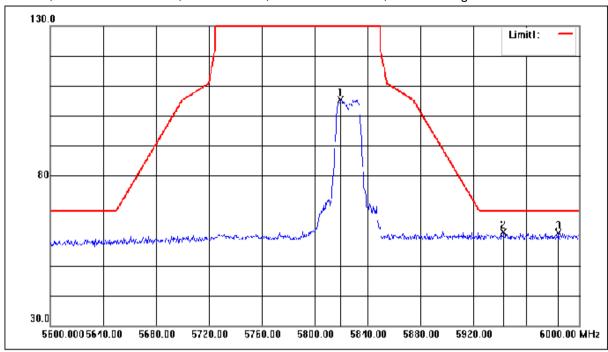
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5830.400	99.15	3.36	102.51	135.00	-32.49	peak
2	5949.600	57.46	4.11	61.57	68.20	-6.63	peak
3	5964.000	56.90	4.20	61.10	68.20	-7.10	peak





Page: 216 of 233

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



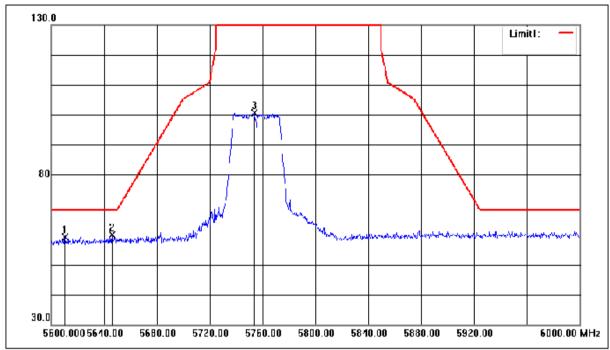
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5819.600	102.01	3.29	105.30	135.00	-29.70	peak
2	5942.800	57.17	4.07	61.24	68.20	-6.96	peak
3	5984.400	56.47	4.33	60.80	68.20	-7.40	peak





Page: 217 of 233

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



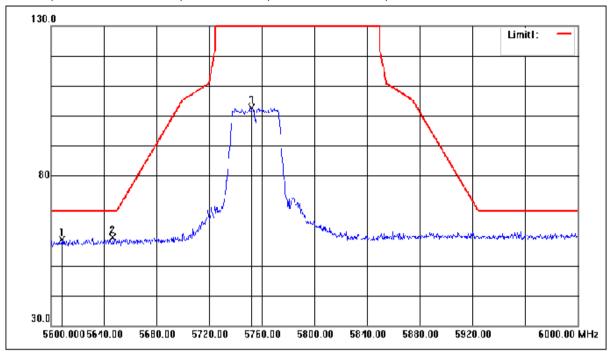
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5610.400	57.25	1.97	59.22	68.20	-8.98	peak
2	5646.000	57.58	2.19	59.77	68.20	-8.43	peak
3	5753.600	97.82	2.87	100.69	135.00	-34.31	peak





Page: 218 of 233

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



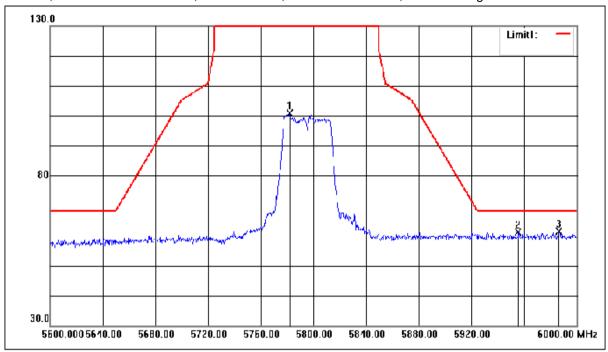
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5608.400	56.68	1.96	58.64	68.20	-9.56	peak
2	5646.800	57.21	2.20	59.41	68.20	-8.79	peak
3	5752.400	99.83	2.87	102.70	135.00	-32.30	peak





Page: 219 of 233

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



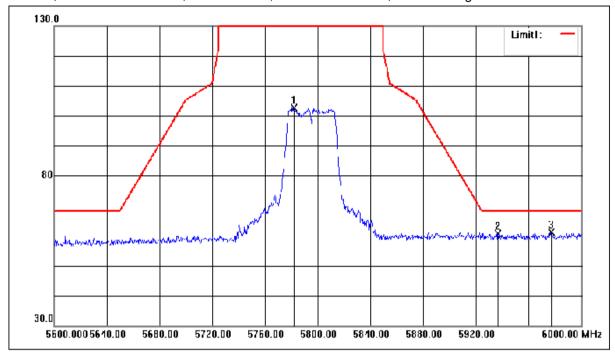
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5782.000	97.76	3.05	100.81	135.00	-34.19	peak
2	5955.600	56.98	4.15	61.13	68.20	-7.07	peak
3	5986.400	57.07	4.34	61.41	68.20	-6.79	peak





Page: 220 of 233

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



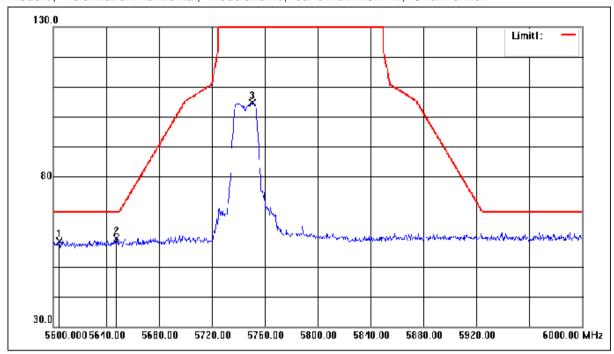
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5782.000	99.66	3.05	102.71	135.00	-32.29	peak
2	5936.800	56.61	4.03	60.64	68.20	-7.56	peak
3	5977.200	56.72	4.29	61.01	68.20	-7.19	peak





Page: 221 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



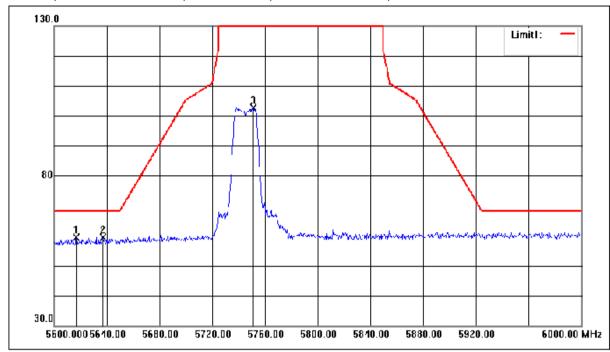
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5604.400	56.38	1.93	58.31	68.20	-9.89	peak
2	5647.600	57.21	2.20	59.41	68.20	-8.79	peak
3	5750.800	101.88	2.86	104.74	135.00	-30.26	peak





Page: 222 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



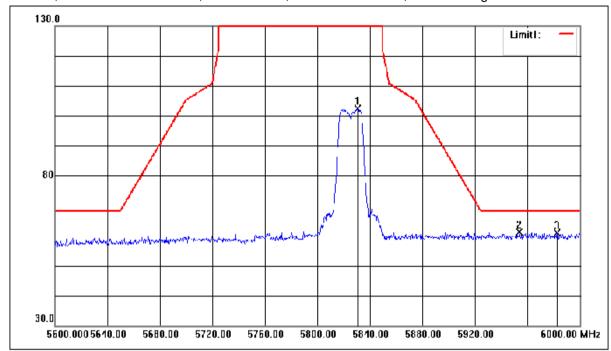
No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	()	factor()	()	()	(dB)	
1	5616.800	57.27	2.01	59.28	68.20	-8.92	peak
2	5637.200	57.29	2.14	59.43	68.20	-8.77	peak
3	5751.200	99.77	2.86	102.63	135.00	-32.37	peak





Page: 223 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



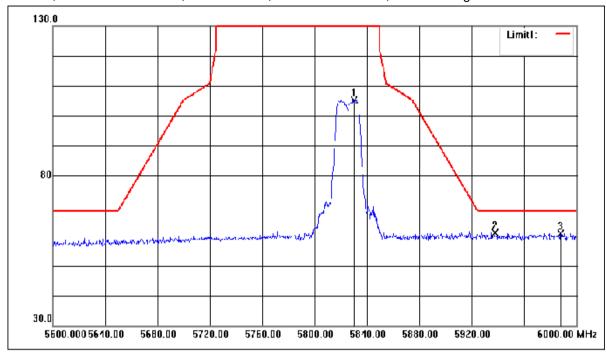
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5830.400	99.02	3.36	102.38	135.00	-32.62	peak
2	5954.000	56.87	4.14	61.01	68.20	-7.19	peak
3	5982.400	56.60	4.32	60.92	68.20	-7.28	peak





Page: 224 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



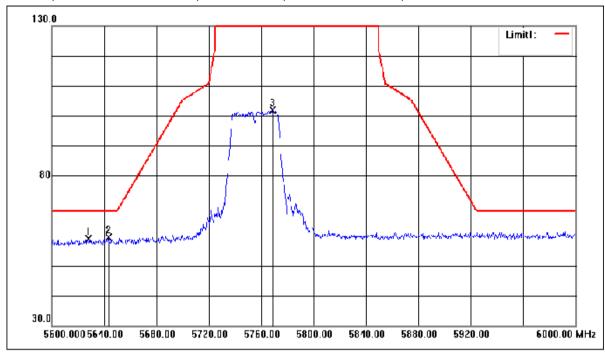
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5830.000	101.85	3.36	105.21	135.00	-29.79	peak
2	5937.600	56.96	4.04	61.00	68.20	-7.20	peak
3	5988.000	56.36	4.35	60.71	68.20	-7.49	peak





Page: 225 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



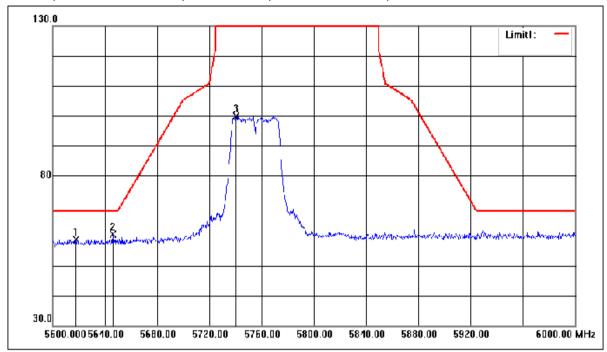
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5628.000	56.74	2.08	58.82	68.20	-9.38	peak
2	5643.200	57.19	2.18	59.37	68.20	-8.83	peak
3	5768.800	98.90	2.97	101.87	135.00	-33.13	peak





Page: 226 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



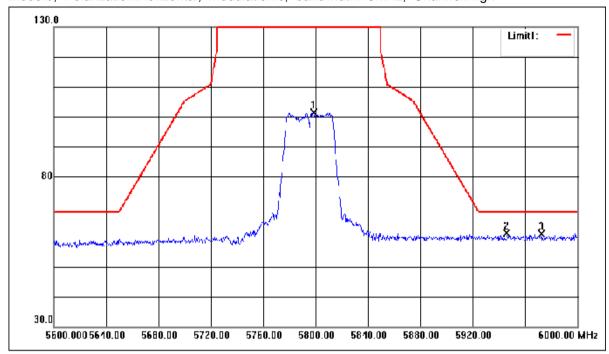
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5617.600	56.69	2.01	58.70	68.20	-9.50	peak
2	5646.000	58.07	2.19	60.26	68.20	-7.94	peak
3	5740.400	96.97	2.79	99.76	135.00	-35.24	peak





Page: 227 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



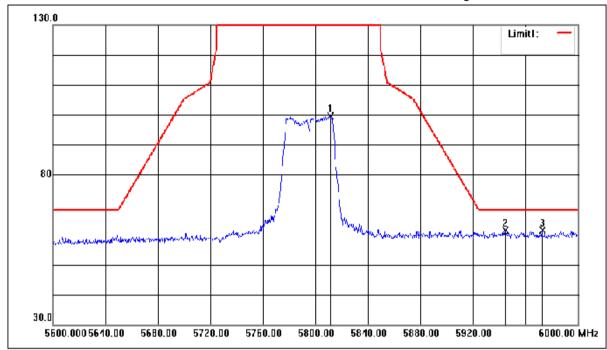
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5798.400	98.23	3.16	101.39	135.00	-33.61	peak
2	5946.000	56.92	4.09	61.01	68.20	-7.19	peak
3	5972.400	56.51	4.26	60.77	68.20	-7.43	peak





Page: 228 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



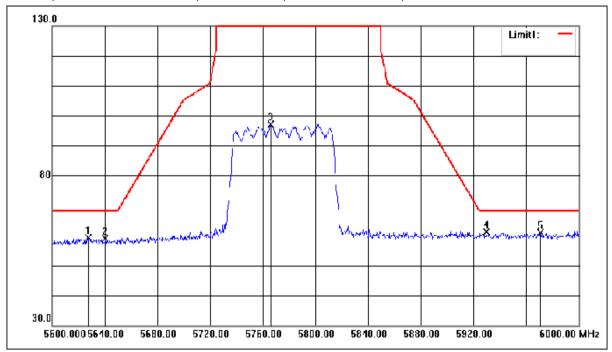
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5811.200	96.51	3.24	99.75	135.00	-35.25	peak
2	5944.800	57.20	4.08	61.28	68.20	-6.92	peak
3	5972.800	57.01	4.26	61.27	68.20	-6.93	peak





Page: 229 of 233

Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



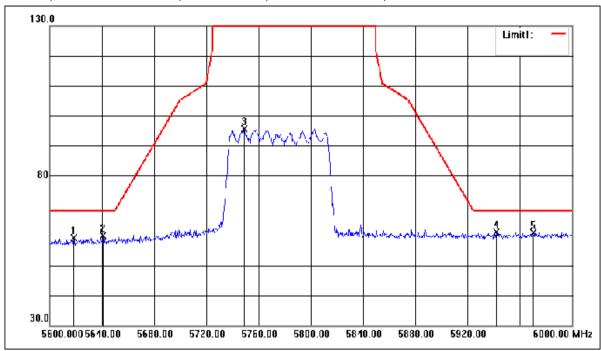
No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5627.200	56.96	2.07	59.03	68.20	-9.17	peak
2	5640.400	56.74	2.16	58.90	68.20	-9.30	peak
3	5766.000	94.24	2.95	97.19	135.00	-37.81	peak
4	5930.000	57.16	3.99	61.15	68.20	-7.05	peak
5	5970.800	56.66	4.25	60.91	68.20	-7.29	peak





Page: 230 of 233

Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading ()	Correction factor()	Result ()	Limit ()	Margin (dB)	Remark
1	5618.400	57.17	2.02	59.19	68.20	-9.01	peak
2	5640.800	57.83	2.16	59.99	68.20	-8.21	peak
3	5748.800	92.80	2.84	95.64	135.00	-39.36	peak
4	5942.000	57.13	4.06	61.19	68.20	-7.01	peak
5	5970.400	56.72	4.24	60.96	68.20	-7.24	peak



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Report No.: SHEM200700566002

Page: 231 of 233

7.10 Frequency Stability

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

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

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.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test mode: b: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); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

c: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

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

d: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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 @ MCS0 is the worst case of IEEE

802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE

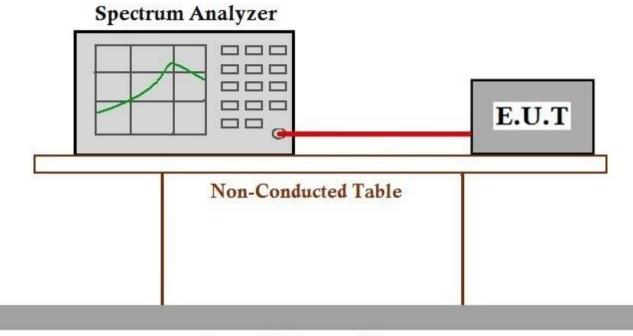
802.11ac(VHT80). Only the data of worst case is recorded in the report.





Page: 232 of 233

7.10.2 Test Setup Diagram



Ground Reference Plane

7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHEM200700566002





Page: 233 of 233

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 -