

Report No.: SHCR220100002902

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# TEST REPORT

Application No.: SHCR2201000029AT

**FCC ID**: UCZ-W881AA-Z **IC**: 8575A-W881AAZ

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, ON L3R 3S1 Canada

**Equipment Under Test (EUT):** 

**EUT Name:** 4K Wi-Fi Smart Deterrence Camera

Model No.: W881AA-Z

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

RSS-247 Issue 2, February 2017

RSS-Gen Issue 5 Amendment 2 (February 2021)

**Date of Receipt:** 2021-12-07

**Date of Test:** 2022-01-05 to 2022-01-18

**Date of Issue:** 2022-01-19

Test Result: Pass\*

arlan 2han

Parlam Zhan Laboratory Manager



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



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	Revision Record					
Version Description Date Remark						
00	Original	2022-01-19	1			

Authorized for issue by:		
	hichard Mil	
	Micheal Niu / Project Engineer	
	Darlam Zhan	
	Parlam Zhan / Reviewer	



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# 2 Test Summary

Radio Spectrum Technical Requirement							
Item FCC Requirement IC Requirement Method							
Antenna Requirement	47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass			
Transmission in the Absence of Data	47 CFR Part 15, Subpart C 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass			

N/A: Not applicable

Radio Spectrum Matter Part							
Item	FCC Requirement	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	Pass			



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# 4 General Information

# 4.1 Details of E.U.T.

Power supply: DC 12V/1.5A by adapter

Test voltage: AC 120V/60Hz

DFS Function: Slave without Radar detection

TPC Function: Not Support

S/N: ND022011099398

Firmware Version: V2.8

	Band	Mode	Frequency Range(MHz)	Number of channels		
	UNII Band I	802.11a/n(HT20)/ac(VHT20)	5180-5240	4		
		802.11n(HT40)/ac(VHT40)	5190-5230	2		
		802.11ac(VHT80)	5210	1		
	UNII Band II-A	802.11a/n(HT20)/ac(VHT20)	5260-5320	4		
Operation Fraguency		802.11n(HT40)/ac(VHT40)	5270-5310	2		
Operation Frequency:		802.11ac(VHT80)	5290	1		
	UNII Band II-C	802.11a/n(HT20)/ac(VHT20)	5500-5700	11		
		802.11n(HT40)/ac(VHT40)	5510-5670	5		
		802.11ac(VHT80)	5530~5610	2		
	UNII Band III	802.11a/n(HT20)/ac(VHT20)	5745-5825	5		
		802.11n(HT40)/ac(VHT40)	5755-5795	2		
		802.11ac(VHT80)	5775	1		
	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)					
Modulation Type:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM)					
	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)					
	802.11a/n(HT20)	)/ac(VHT20): 20MHz				
Channel Spacing:	802.11n(HT40)/ac(VHT40): 40MHz					
	802.11ac(VHT80): 80MHz					
	802.11a: 6/9/12/	18/24/36/48/54Mbps				
Data Rate:	802.11n: MCS0-	15				
	802.11ac: MCS0	9-9				
Antenna 1:4.34dBi; (Provided by manufacturer)						
Antenna Gain:	Antenna 2:2.39dBi; (Provided by manufacturer)					
	Directional Gain:6.43dBi					
Antonno Timo	Antenna 1: PCB Antenna;					
Antenna Type:	Antenna 2: PCB	Antenna				

Remark: For frequencies falling between 5150-5250 and 5600-5650MHz will not be used in Canada.



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# 4.2 Power level setting using in test:

I.2 Powe	er level setting us	sing in test:					
Channel	802.	.11a	802.11n(HT	<sup>-</sup> 20)	802.11ac(VHT20)		
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
36	15	15	12	12	12	12	
40	15	15	12	12	12	12	
48	15	15	12	12	12	12	
52	15	15	12	12	13	12	
60	15	15	12	12	13	12	
64	15	15	12	12	13	12	
100	14	14	11	11	11	11	
116	14	14	11	11	12	10	
140	14	14	11	11	12	11	
149	16	16	13	13	14	12	
157	16	16	14	14	14	12	
165	16	16	14	14	14	12	
01 1	802.11n(HT40)		802.11ac(VF	802.11ac(VHT40)			
Channel	Ant 1	Ant 2	Ant 1	Ant 2			
38	12	12	12	12			
46	12	12	12	12			
54	13	13	13	13			
62	13	13	13	13			
102	12	12	11	11			
110	12	12	11	11			
134	13	13	11	11			
151	12	12	12	12			
159	12	12	12	12			
0	802.11ac	c(VHT80)		•	•		
Channel	Ant 1	Ant 2					
42	13	13					
58	14	14					
106	13	13					
			1				



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# 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	I.T.E. POWER SUPPLY	S018BYU1200150	1
Laptop	Lenovo	ThinkPad X100e	1
SecureCRT	VanDyke	V 6.2.0	1
Serial port adapter plate	1	Test Plate 3	1

# 4.4 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	8.4 x 10 <sup>-8</sup>
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	RF Radiated Power	5.2dB (Below 1GHz)
0	RF Radiated Power	5.9dB (Above 1GHz)
		4.2dB (Below 30MHz)
9	Dedicted Occasions Facilities Total	4.5dB (30MHz-1GHz)
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)
		5.4dB (Above 18GHz)
10	Temperature Test	1°C
11	Humidity Test	3%
12	Supply Voltages	1.5%
13	Time	3%

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



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#### 4.5 Test Location

All tests were performed at:

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 (Kunshan) 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.

Company Number: 2324E

#### • 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-20134, R-11600,C-11707, T-11499, G-10216 respectively.

#### 4.7 Deviation from Standards

None

#### 4.8 Abnormalities from Standard Conditions

None



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# 5 Equipment List

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
	ducted Emission at Mains Terminals (150		Model	Serial Number	Cai Date	Cai. Due Date
1	EMI Test Receive	R&S	ESCI	100781	02/01/2021	01/31/2022
2	LISN	R&S	ENV216	101604	10/12/2021	10/11/2022
3	LISN	Schwarzbeck	NNLK 8129	8129-143	10/12/2021	10/11/2022
4	Pulse Limiter	R&S	ESH3-Z2	100609	02/01/2021	01/31/2022
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Farad	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF (	Conducted Test	<u> </u>				
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
3	Spectrum Analyzer	Keysight	N9010A	MY56480443	02/01/2021	01/31/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Radio Communication Test Station	Anritsu	MT8000A	6262012849	N/A	N/A
6	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	N/A	N/A
7	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
8	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
9	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
10	Switcher	CCSRF	FY562	KUS2001M001 -3	10/12/2021	10/11/2022
11	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
12	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
13	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
14	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
15	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
16	Conducted test cable	1	RF01-RF04	1	04/15/2021	04/14/2022
17	Software	BST	TST-PASS	N/A	N/A	N/A
18	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
19	Thermometer	Anymetre	TH603	CCS007	10/14/2021	10/13/2022
RF R	adiated Test			_		
1	Spectrum Analyzer	R&S	FSV40	101493	10/11/2021	10/10/2022
2	Signal Generator	Agilent	E8257C	MY43321570	10/18/2021	10/17/2022
3	Loop Antenna	Schwarzbeck	HXYZ9170	9170-108	02/22/2021	02/21/2022
4	Bilog Antenna	TESEQ	CBL 6112D	35403	06/21/2021	06/20/2023
5	Bilog Antenna	SCHWARZBECK	VULB9160	9160-3342	04/13/2021	04/12/2023
6	Horn-antenna(1-18GHz)	Schwarzbeck	BBHA9120D	267	10/26/2020	10/25/2022
7	Horn-antenna(1-18GHz)	ETS-LINDGREN	3117	00143290	02/22/2021	02/21/2023
8	Horn Antenna(18-40GHz)	Schwarzbeck	BBHA9170	BBHA9170171	02/22/2021	02/21/2022
9	Pre-Amplifier(30MHz~18GHz)	LNA	/	/	04/15/2021	04/14/2022
10	Amplifier(18~40GHz)	COM-POWER	PAM-840A	461332	10/18/2021	10/17/2022
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



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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~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~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	/	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC-v 3A1	N/A	N/A	N/A



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# 6 Radio Spectrum Technical Requirement

# 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 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 is PCB antenna, antenna 2 is PCB antenna and no consideration of replacement. The best case gain of the antenna 1 is 4.34dBi, antenna 2 is 2.39dBi

Antenna location: Refer to Appendix(internal photo)



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#### 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.407 (c)

#### 6.2.2 Conclusion

#### Standard Requirement:

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

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

#### **EUT Details:**

WIFI module (AP6275S) support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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# 7 Radio Spectrum Matter Test Results

# 7.1 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 amicaia (MILL)	Conducted limit(dBµV)								
Frequency of emission(MHz)	Quasi-peak	Average							
0.15-0.5	66 to 56*	56 to 46*							
0.5-5	56	46							
5-30	60	50							
*Decreases with the logarithm of t	*Decreases with the logarithm of the frequency.								



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#### 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:

b: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.

c: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(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 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.

e: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:

c: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.



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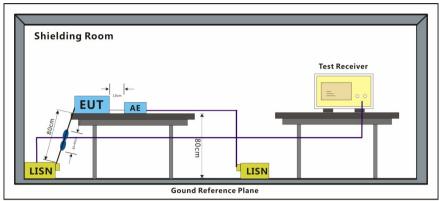
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# 7.1.2 Test Setup Diagram



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



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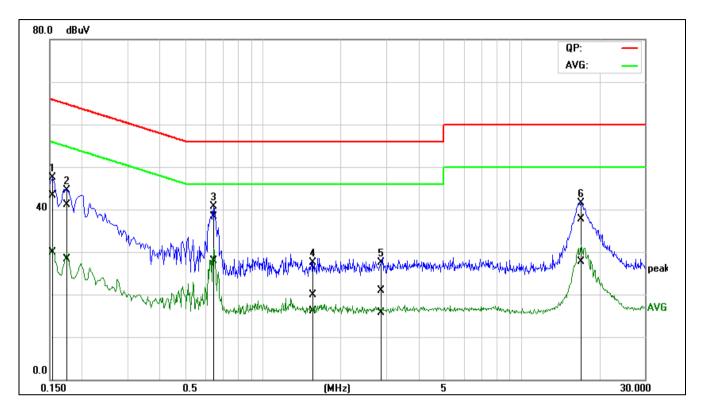
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Mode:c; Line:Live Line



No.	Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
		reading	reading	factor	result	result	limit	limit	margin	margin	
	(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
1	0.1534	23.49	10.09	19.76	43.25	29.85	65.81	55.81	-22.56	-25.96	Pass
2	0.1754	21.42	8.52	19.75	41.17	28.27	64.70	54.70	-23.53	-26.43	Pass
3*	0.6483	18.56	8.12	19.74	38.30	27.86	56.00	46.00	-17.70	-18.14	Pass
4	1.5752	0.10	-3.60	19.71	19.81	16.11	56.00	46.00	-36.19	-29.89	Pass
5	2.8328	1.16	-4.08	19.74	20.90	15.66	56.00	46.00	-35.10	-30.34	Pass
6	16.9883	17.51	7.64	20.11	37.62	27.75	60.00	50.00	-22.38	-22.25	Pass



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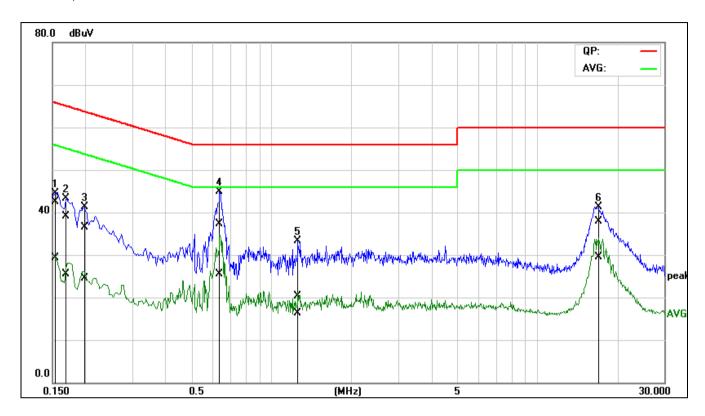
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Mode:c; Line:Neutral Line



Frequency	QuasiPeak	Average	Correction	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
	reading	reading	factor	result	result	limit	limit	margin	margin	
(MHz)	(dBuV)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	(dB)	
0.1516	22.78	9.50	19.76	42.54	29.26	65.91	55.91	-23.37	-26.65	Pass
0.1702	19.25	5.77	19.76	39.01	25.53	64.95	54.95	-25.94	-29.42	Pass
0.1981	16.75	4.71	19.76	36.51	24.47	63.69	53.69	-27.18	-29.22	Pass
0.6398	17.49	5.83	19.74	37.23	25.57	56.00	46.00	-18.77	-20.43	Pass
1.2607	0.59	-3.41	19.70	20.29	16.29	56.00	46.00	-35.71	-29.71	Pass
16.9604	17.83	9.46	20.09	37.92	29.55	60.00	50.00	-22.08	-20.45	Pass
	(MHz) 0.1516 0.1702 0.1981 0.6398 1.2607	reading (MHz) (dBuV)  0.1516 22.78  0.1702 19.25  0.1981 16.75  0.6398 17.49  1.2607 0.59	reading         reading           (MHz)         (dBuV)         (dBuV)           0.1516         22.78         9.50           0.1702         19.25         5.77           0.1981         16.75         4.71           0.6398         17.49         5.83           1.2607         0.59         -3.41	reading         reading         factor           (MHz)         (dBuV)         (dBuV)         (dB)           0.1516         22.78         9.50         19.76           0.1702         19.25         5.77         19.76           0.1981         16.75         4.71         19.76           0.6398         17.49         5.83         19.74           1.2607         0.59         -3.41         19.70	reading         reading         factor         result           (MHz)         (dBuV)         (dBuV)         (dB)         (dBuV)           0.1516         22.78         9.50         19.76         42.54           0.1702         19.25         5.77         19.76         39.01           0.1981         16.75         4.71         19.76         36.51           0.6398         17.49         5.83         19.74         37.23           1.2607         0.59         -3.41         19.70         20.29	reading         reading         factor         result         result           (MHz)         (dBuV)         (dBuV)         (dB)         (dBuV)         (dBuV)           0.1516         22.78         9.50         19.76         42.54         29.26           0.1702         19.25         5.77         19.76         39.01         25.53           0.1981         16.75         4.71         19.76         36.51         24.47           0.6398         17.49         5.83         19.74         37.23         25.57           1.2607         0.59         -3.41         19.70         20.29         16.29	reading         reading         factor         result         result         limit           (MHz)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)           0.1516         22.78         9.50         19.76         42.54         29.26         65.91           0.1702         19.25         5.77         19.76         39.01         25.53         64.95           0.1981         16.75         4.71         19.76         36.51         24.47         63.69           0.6398         17.49         5.83         19.74         37.23         25.57         56.00           1.2607         0.59         -3.41         19.70         20.29         16.29         56.00	reading         reading         factor         result         result         limit         limit           (MHz)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)           0.1516         22.78         9.50         19.76         42.54         29.26         65.91         55.91           0.1702         19.25         5.77         19.76         39.01         25.53         64.95         54.95           0.1981         16.75         4.71         19.76         36.51         24.47         63.69         53.69           0.6398         17.49         5.83         19.74         37.23         25.57         56.00         46.00           1.2607         0.59         -3.41         19.70         20.29         16.29         56.00         46.00	reading         reading         factor         result         limit         limit         margin           (MHz)         (dBuV)         (dBuV)	reading         reading         factor         result         limit         limit         margin         margin           (MHz)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dBuV)         (dB)         (dB)         (dB)           0.1516         22.78         9.50         19.76         42.54         29.26         65.91         55.91         -23.37         -26.65           0.1702         19.25         5.77         19.76         39.01         25.53         64.95         54.95         -25.94         -29.42           0.1981         16.75         4.71         19.76         36.51         24.47         63.69         53.69         -27.18         -29.22           0.6398         17.49         5.83         19.74         37.23         25.57         56.00         46.00         -18.77         -20.43           1.2607         0.59         -3.41         19.70         20.29         16.29         56.00         46.00         -35.71         -29.71



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# 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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode b: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.

c: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.

d: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.

e: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.



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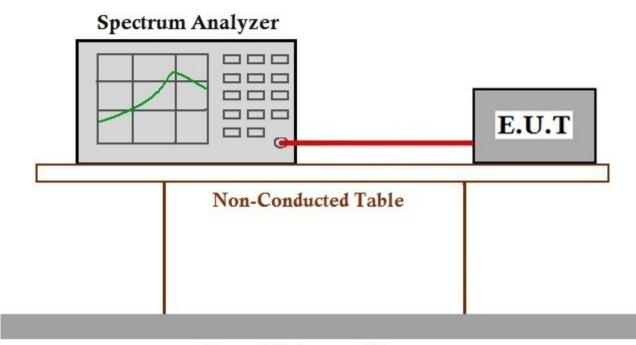
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#### 7.2.2 Test Setup Diagram



# Ground Reference Plane

#### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100002902



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# 7.3 99% Bandwidth

Test Requirement N/A

Test Method: KDB 789033 II D

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode b: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.

c: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.

d: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.

e: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.



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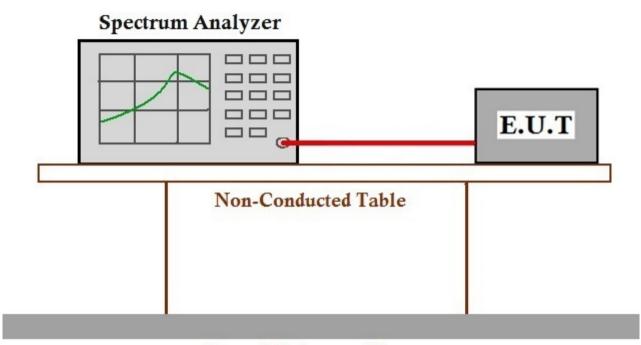
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# 7.3.2 Test Setup Diagram



# Ground Reference Plane

#### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100002902



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#### 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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode b: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.

c: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.

d: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

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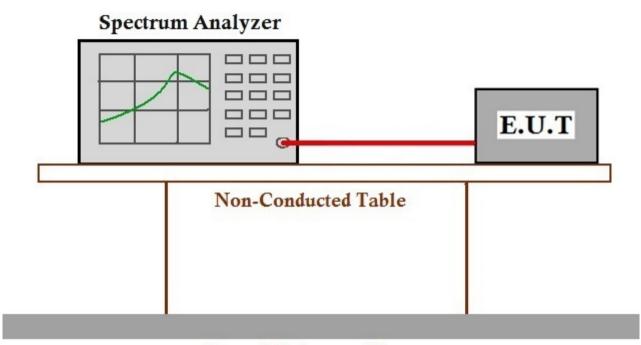
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#### 7.4.2 Test Setup Diagram



# Ground Reference Plane

#### 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100002902



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#### 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: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

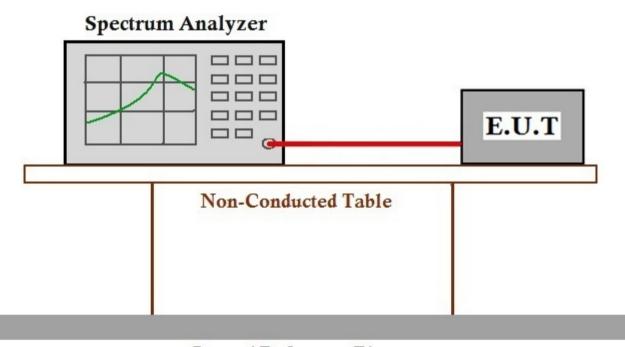
Test mode e:TX mode (Band 3) Keep the EUT in continuously transmitting mode with all

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 SHCR220100002902



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# 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						
E150 5	2250	≤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.						
	The maximum conducted output power must be measured over any interval continuous transmission using instrumentation calibrated in terms of an rms-equiviolation.							



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#### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode

b: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.

c: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.

d: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.

e: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.



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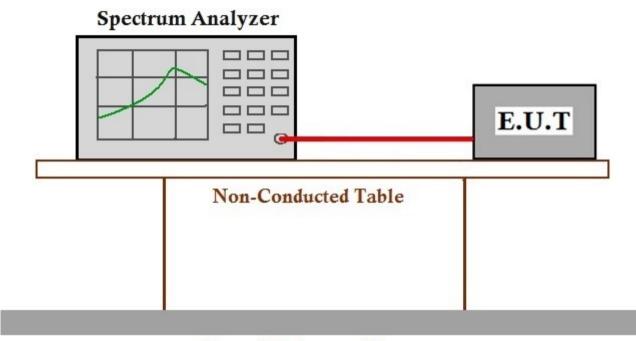
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#### 7.6.2 Test Setup Diagram



# Ground Reference Plane

#### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100002902



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# 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					
5150-5250		≤17dBm in 1MHz for master device					
5150-5	250	≤11dBm in 1MHz for client device					
5250-5	350	≤11dBm in 1MHz for client device					
5470-5	725	≤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 be connection of a calibrated test instrument to the equipment under test.						



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#### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode

b: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.

c: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.

d: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.

e: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.



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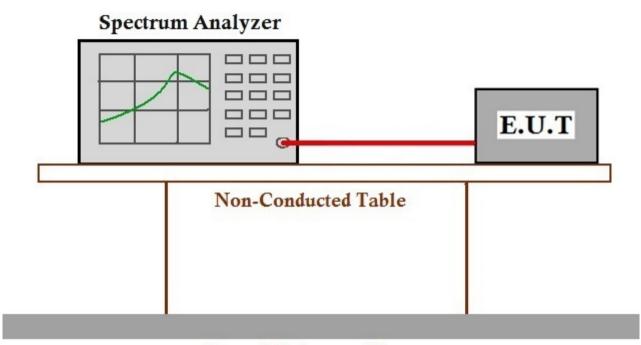
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#### 7.7.2 Test Setup Diagram



# Ground Reference Plane

#### 7.7.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100002902



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#### 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.



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#### 7.8.1 E.U.T. Operation

Test mode

Operating Environment:

Temperature: 24 Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

b: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.

c: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.

d: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.

e: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

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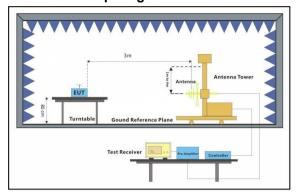
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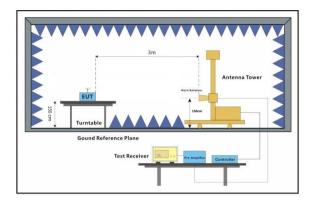


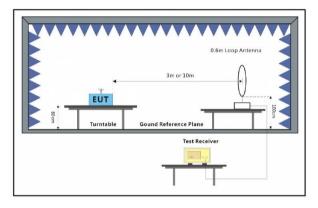


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#### 7.8.2 Test Setup Diagram









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#### 7.8.3 Measurement Procedure and Data

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



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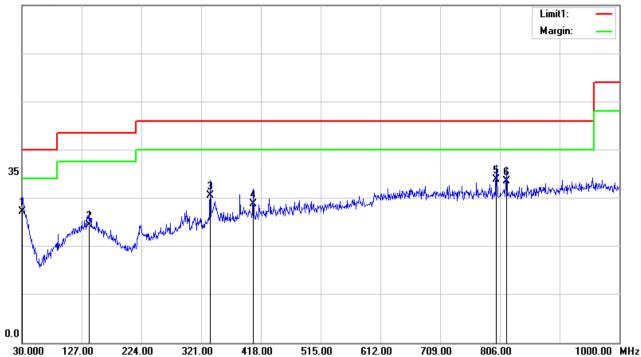


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Below 1GHz

Mode:b; Polarization:Horizontal.





No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	1.75	25.38	27.13	40.00	-12.87	100	291	QP
2	139.6100	4.57	19.80	24.37	43.50	-19.13	143	360	QP
3	335.5500	8.73	21.87	30.60	46.00	-15.40	100	112	QP
4	405.3900	5.20	23.66	28.86	46.00	-17.14	145	360	QP
5	800.1800	5.95	27.83	33.78	46.00	-12.22	100	116	QP
6	816.6700	5.58	27.91	33.49	46.00	-12.51	100	178	QP



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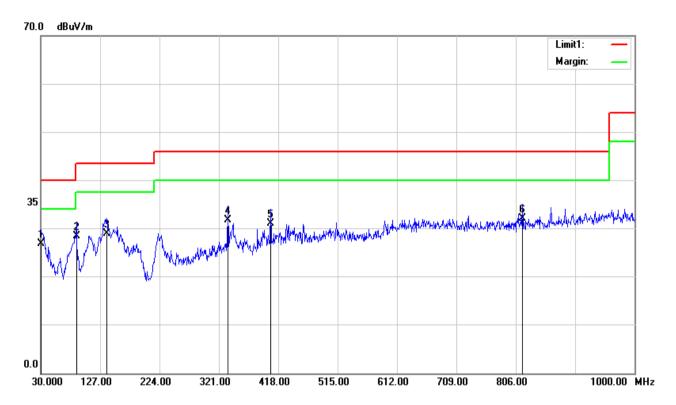
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Mode:b; Polarization: Vertical.



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	30.9700	1.53	25.38	26.91	40.00	-13.09	100	31	QP
2	88.2000	11.94	16.42	28.36	43.50	-15.14	100	336	QP
3	137.6700	9.29	19.74	29.03	43.50	-14.47	100	168	QP
4	335.5500	9.84	21.87	31.71	46.00	-14.29	100	331	QP
5	405.3900	7.41	23.66	31.07	46.00	-14.93	100	13	QP
6	816.6700	4.23	27.91	32.14	46.00	-13.86	100	152	QP



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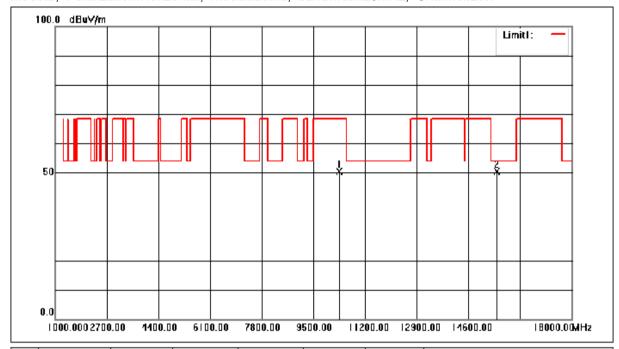
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10360.000	50.21	0.16	50.37	68.30	-17.93	peak
2	15540.000	44.68	5.73	50.41	54.00	-3.59	peak



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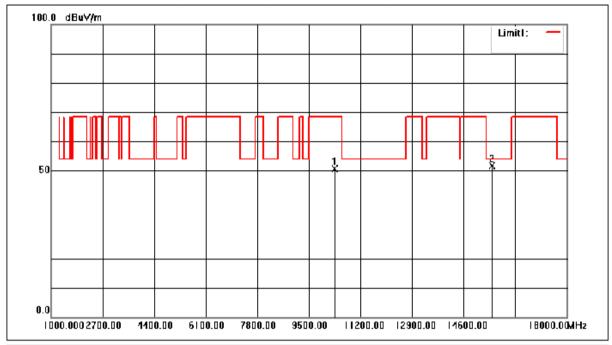
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10360.000	50.42	0.16	50.58	68.30	-17.72	peak
2	15540.000	46.01	5.73	51.74	54.00	-2.26	peak



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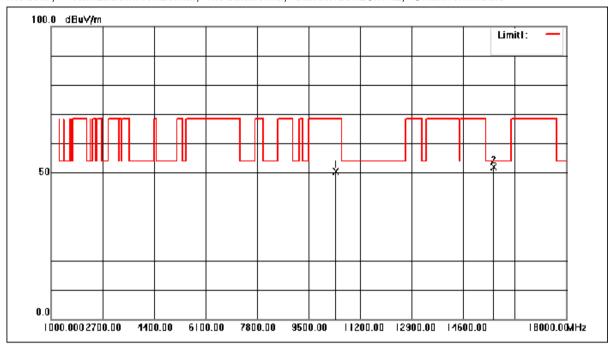
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10400.000	50.24	0.24	50.48	68.30	-17.82	peak
2	15600.000	46.03	5.85	51.88	54.00	-2.12	peak



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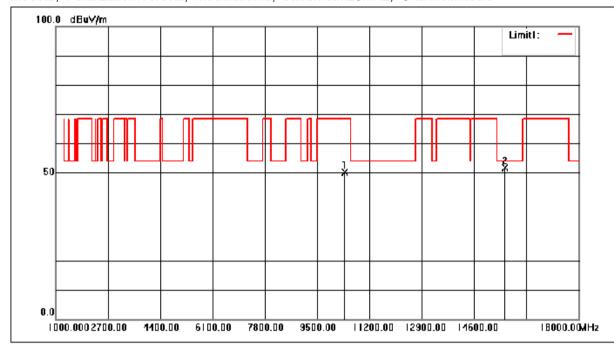
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)		Correction factor(dB/m)		Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	49.99	0.24	50.23	68.30	-18.07	peak
2	15600.000	45.85	5.85	51.70	54.00	-2.30	peak



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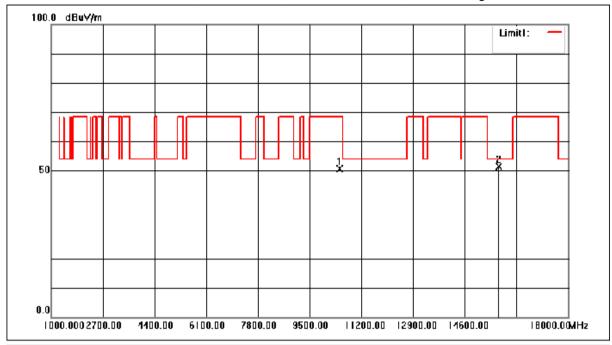
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Report No.: SHCR220100002902 Page: 41 of 256

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



No.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	50.35	0.40	50.75	68.30	-17.55	peak
2	15720.000	45.26	6.10	51.36	54.00	-2.64	peak



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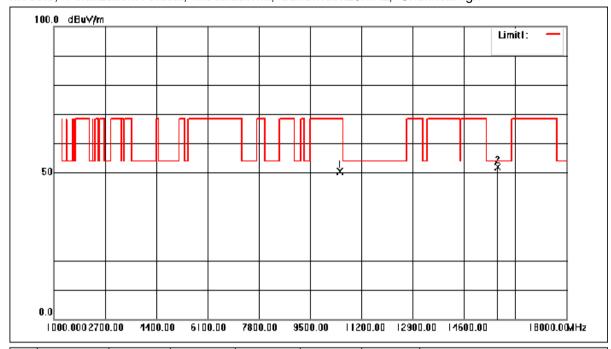
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10480.000	50.05	0.40	50.45	68.30	-17.85	peak
2	15720.000	45.86	6.10	51.96	54.00	-2.04	peak



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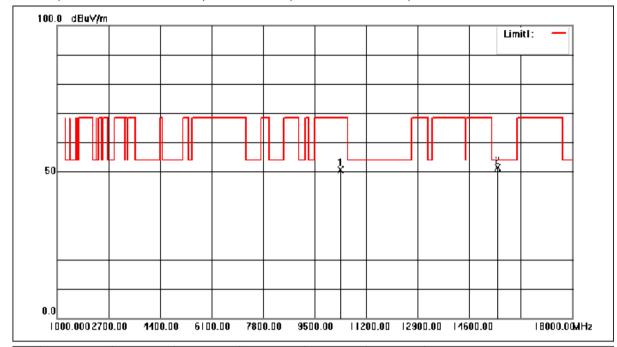
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10360.000	50.46	0.16	50.62	68.30	-17.68	peak
2	15540.000	45.65	5.73	51.38	54.00	-2.62	peak



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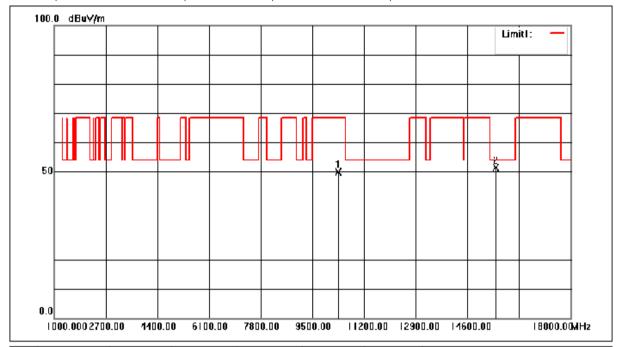
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10360.000	49.66	0.16	49.82	68.30	-18.48	peak
2	15540.000	45.57	5.73	51.30	54.00	-2.70	peak



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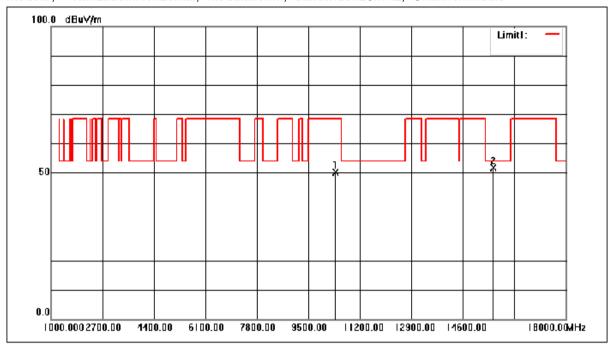
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10400.000	49.92	0.24	50.16	68.30	-18.14	peak
2	15600.000	45.72	5.85	51.57	54.00	-2.43	peak



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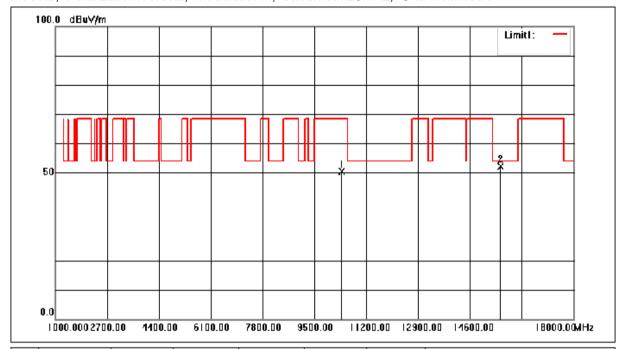
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10400.000	50.15	0.24	50.39	68.30	-17.91	peak
2	15600.000	46.18	5.85	52.03	54.00	-1.97	peak



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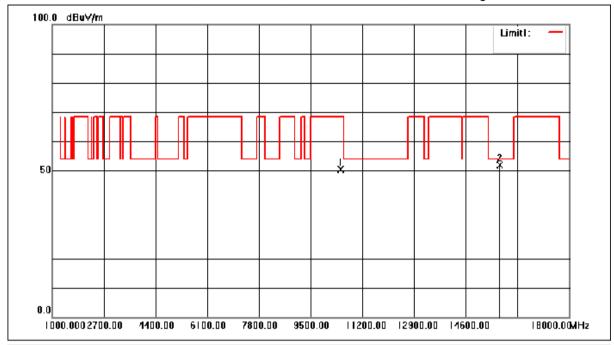
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No	. Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	49.94	0.40	50.34	68.30	-17.96	peak
2	15720.000	45.75	6.10	51.85	54.00	-2.15	peak



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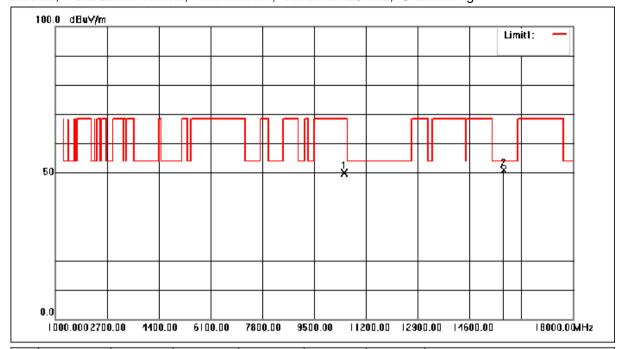
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10480.000	49.43	0.40	49.83	68.30	-18.47	peak
2	15720.000	44.87	6.10	50.97	54.00	-3.03	peak



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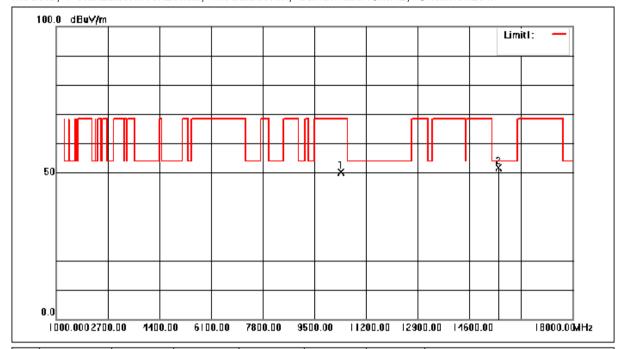
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10380.000	49.95	0.20	50.15	68.30	-18.15	peak
2	15570.000	45.96	5.79	51.75	54.00	-2.25	peak



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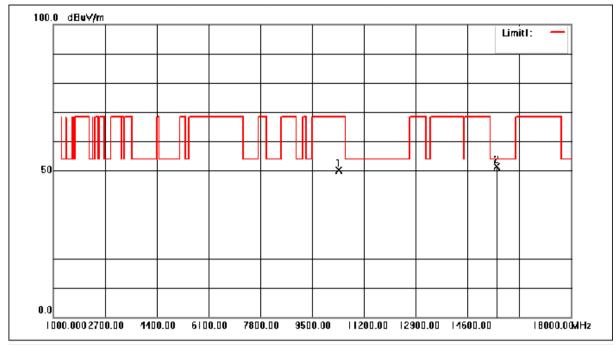
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10380.000	49.98	0.20	50.18	68.30	-18.12	peak
2	15570.000	45.69	5.79	51.48	54.00	-2.52	peak



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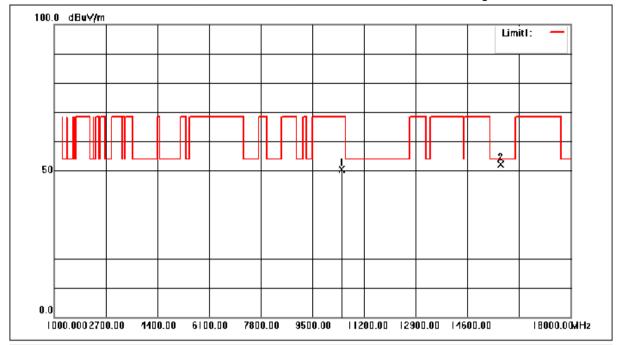
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10460.000	50.14	0.36	50.50	68.30	-17.80	peak
2	15690.000	46.11	6.04	52.15	54.00	-1.85	peak



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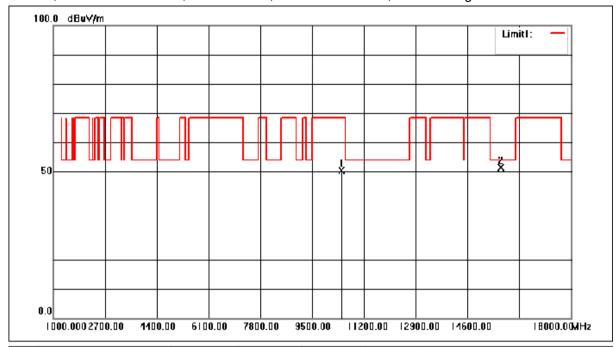
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10460.000	50.01	0.36	50.37	68.30	-17.93	peak
2	15690.000	45.44	6.04	51.48	54.00	-2.52	peak



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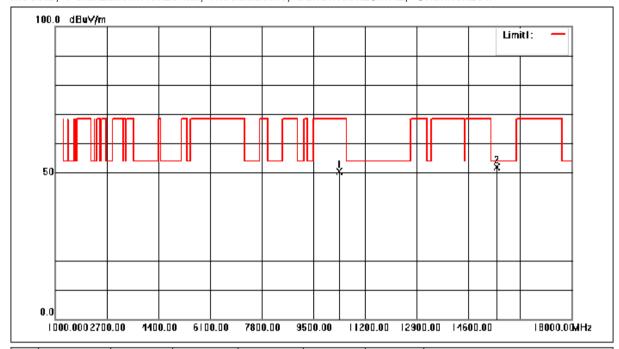
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10360.000	50.18	0.16	50.34	68.30	-17.96	peak
2	15540.000	46.06	5.73	51.79	54.00	-2.21	peak



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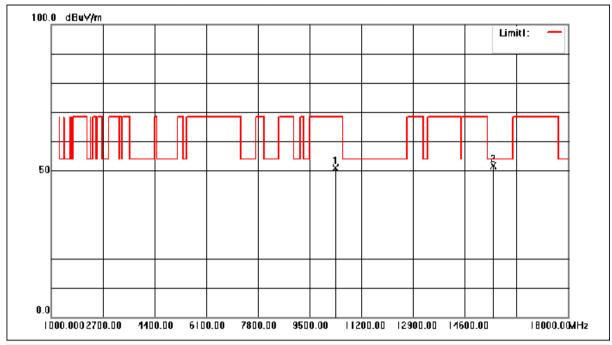
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	50.71	0.16	50.87	68.30	-17.43	peak
2	15540.000	45.90	5.73	51.63	54.00	-2.37	peak



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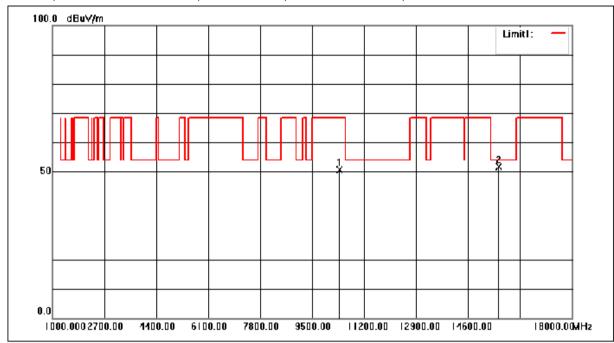
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



	No.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
r	1	10400.000	50.41	0.24	50.65	68.30	-17.65	peak
	2	15600.000	45.68	5.85	51.53	54.00	-2.47	peak



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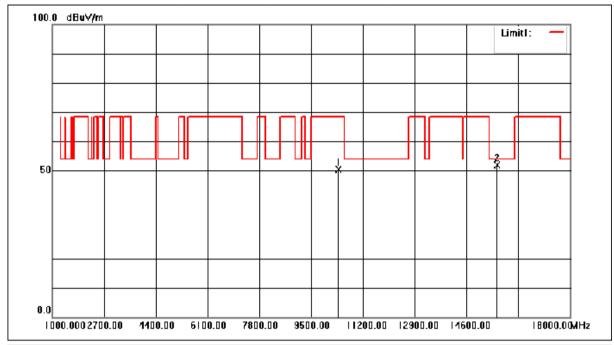
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	50.10	0.24	50.34	68.30	-17.96	peak
2	15600.000	46.02	5.85	51.87	54.00	-2.13	peak



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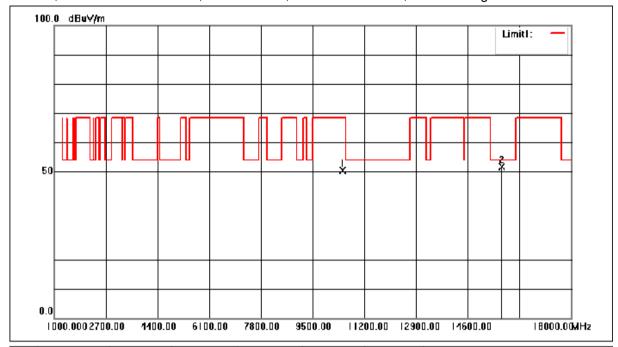
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10480.000	50.00	0.40	50.40	68.30	-17.90	peak
2	15720.000	45.62	6.10	51.72	54.00	-2.28	peak



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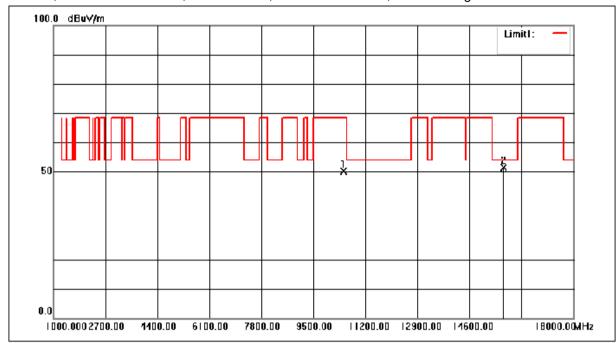
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10480.000	49.74	0.40	50.14	68.30	-18.16	peak
2	15720.000	45.17	6.10	51.27	54.00	-2.73	peak



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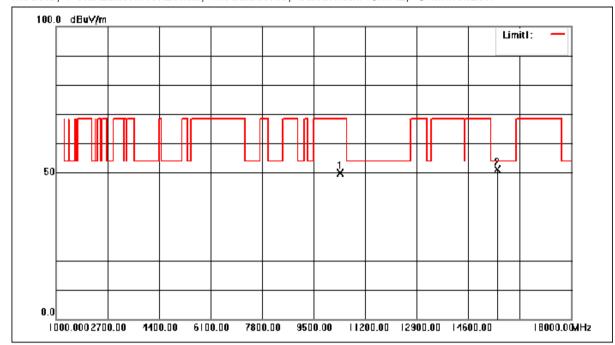
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10380.000	49.80	0.20	50.00	68.30	-18.30	peak
2	15570.000	45.46	5.79	51.25	54.00	-2.75	peak



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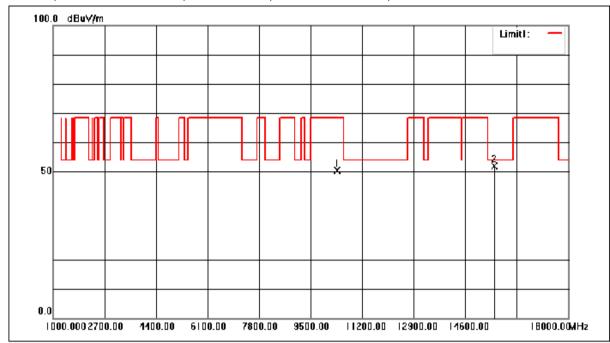
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10380.000	50.08	0.20	50.28	68.30	-18.02	peak
2	15570.000	46.10	5.79	51.89	54.00	-2.11	peak



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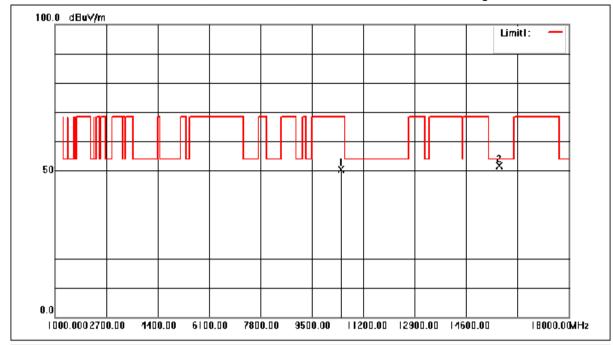
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10460.000	49.97	0.36	50.33	68.30	-17.97	peak
2	15690.000	45.64	6.04	51.68	54.00	-2.32	peak



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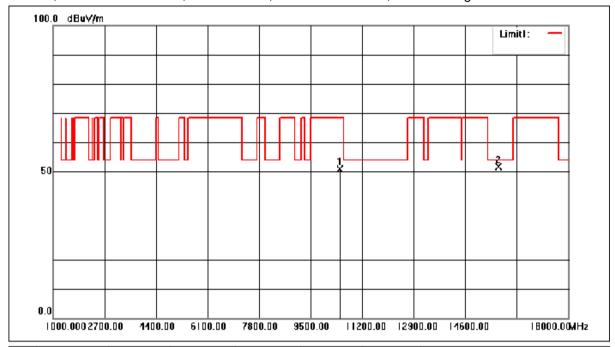
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10460.000	50.50	0.36	50.86	68.30	-17.44	peak
2	15690.000	45.52	6.04	51.56	54.00	-2.44	peak



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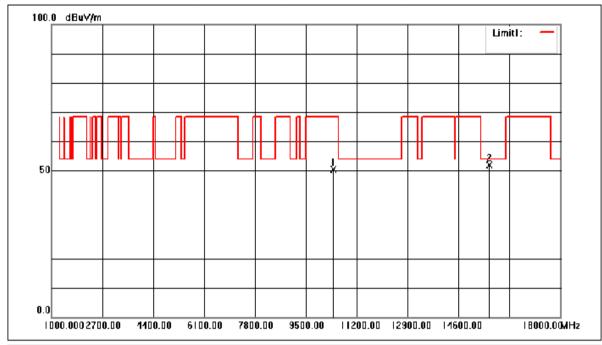
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin	Remark
	(IVITZ)	(abuv)	lactor(db/m)	(abuv/m)	(abuv/m)	(dB)	
1	10420.000	50.01	0.28	50.29	68.30	-18.01	peak
2	15630.000	46.05	5.92	51.97	54.00	-2.03	peak



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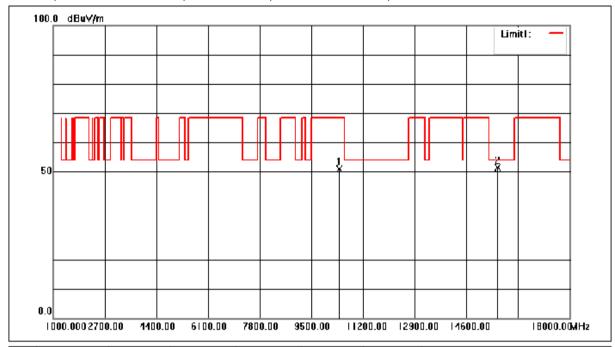
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10420.000	50.56	0.28	50.84	68.30	-17.46	peak
2	15630.000	45.42	5.92	51.34	54.00	-2.66	peak



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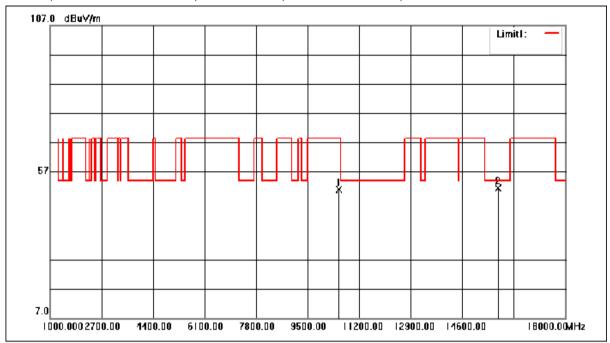
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10520.000	50.51	0.44	50.95	68.30	-17.35	peak
2	15780.000	45.19	6.23	51.42	54.00	-2.58	peak



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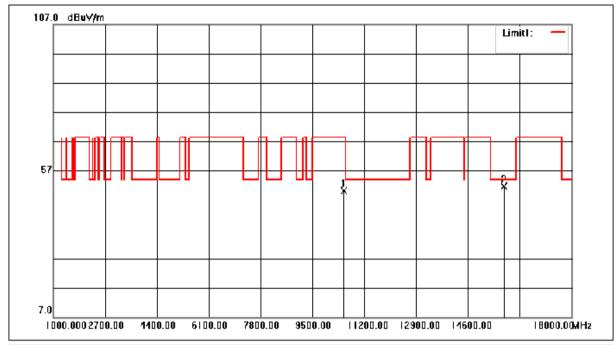
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	49.71	0.44	50.15	68.30	-18.15	peak
2	15780.000	45.40	6.23	51.63	54.00	-2.37	peak



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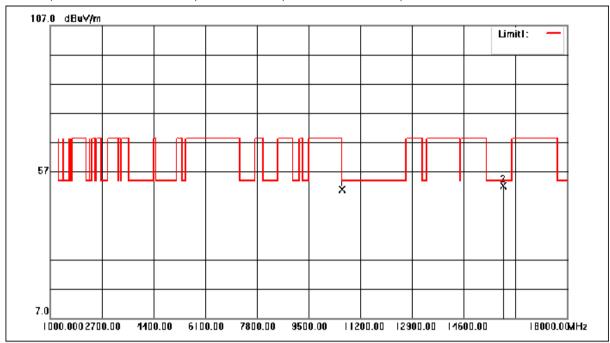
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	50.30	0.46	50.76	54.00	-3.24	peak
2	15900.000	45.70	6.48	52.18	54.00	-1.82	peak



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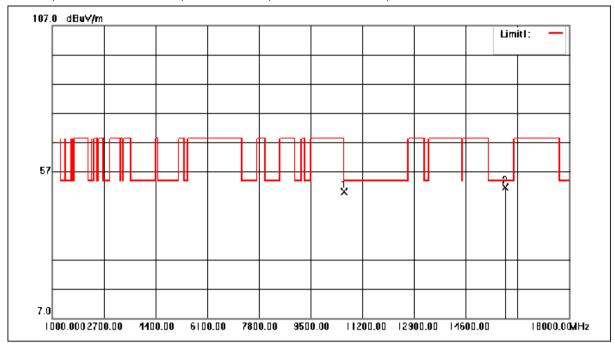
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.73	0.46	50.19	54.00	-3.81	peak
2	15900.000	45.06	6.48	51.54	54.00	-2.46	peak



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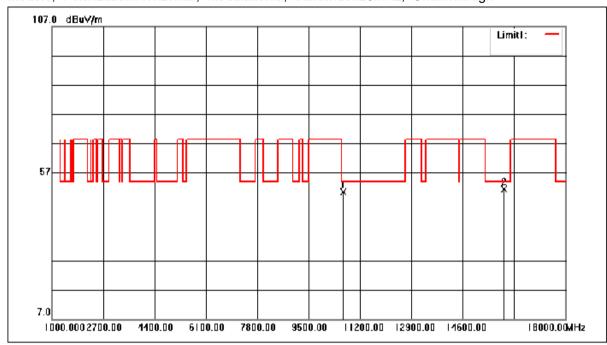
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10640.000	49.83	0.46	50.29	54.00	-3.71	peak
2	15960.000	44.89	6.60	51.49	54.00	-2.51	peak



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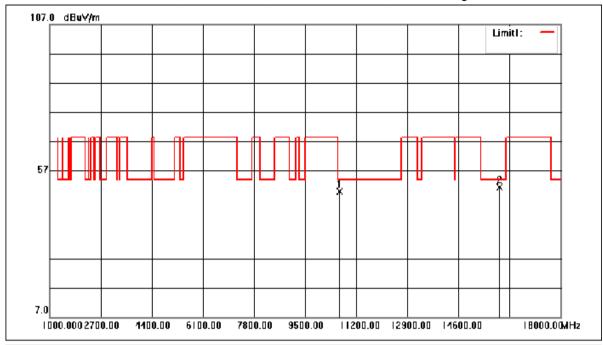
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



1	Vo.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1	10640.000	49.46	0.46	49.92	54.00	-4.08	peak
2	2	15960.000	44.85	6.60	51.45	54.00	-2.55	peak



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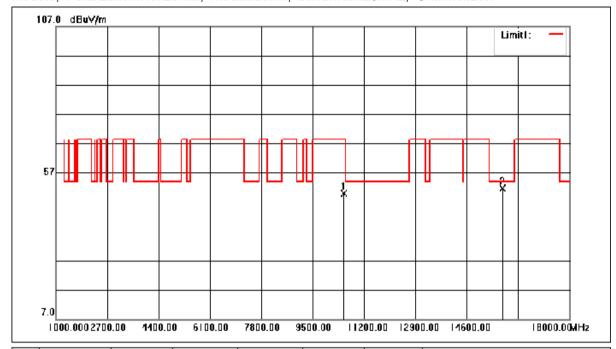
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10520.000	49.46	0.44	49.90	68.30	-18.40	peak
2	15780.000	45.42	6.23	51.65	54.00	-2.35	peak



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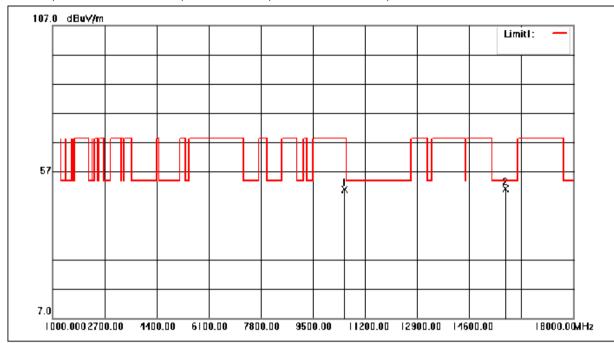
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)		Limit (dBuV/m)	Margin (dB)	Remark
1	10520.000	50.35	0.44	50.79	68.30	-17.51	peak
2	15780.000	44.89	6.23	51.12	54.00	-2.88	peak



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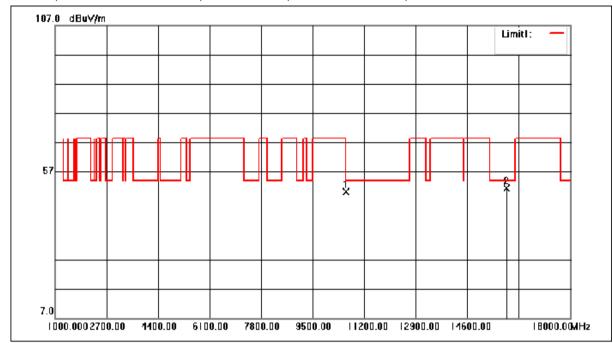
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# Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10600.000	49.67	0.46	50.13	54.00	-3.87	peak
2	15900.000	44.93	6.48	51.41	54.00	-2.59	peak



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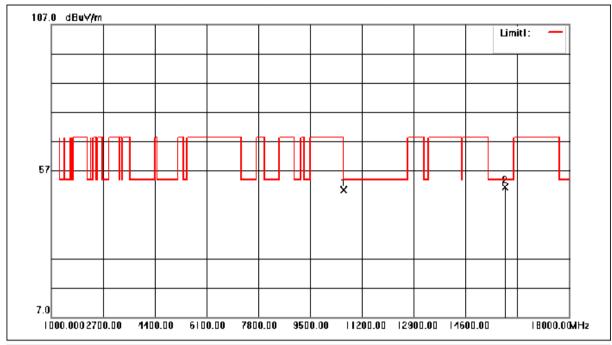
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# Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.90	0.46	50.36	54.00	-3.64	peak
2	15900.000	44.95	6.48	51.43	54.00	-2.57	peak



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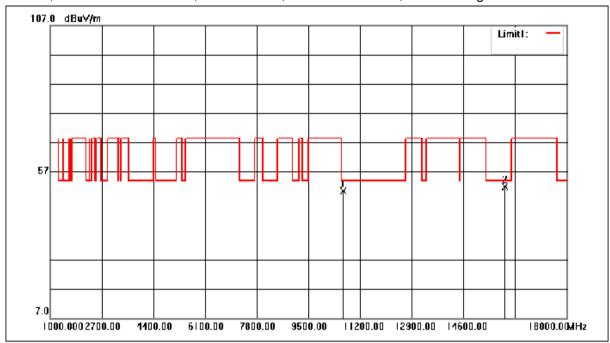
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	49.82	0.46	50.28	54.00	-3.72	peak
2	15960.000	45.35	6.60	51.95	54.00	-2.05	peak



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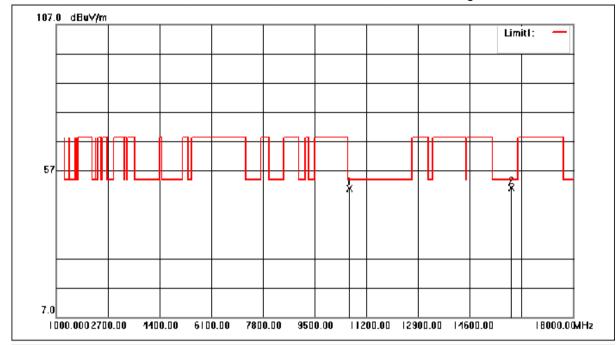
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# Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10640.000	50.51	0.46	50.97	54.00	-3.03	peak
2	15960.000	44.51	6.60	51.11	54.00	-2.89	peak



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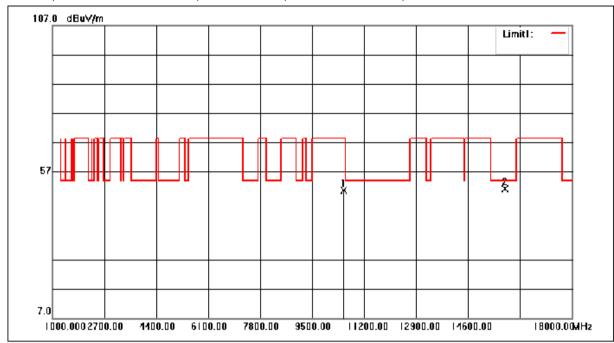
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	50.07	0.44	50.51	68.30	-17.79	peak
2	15810.000	44.89	6.29	51.18	54.00	-2.82	peak



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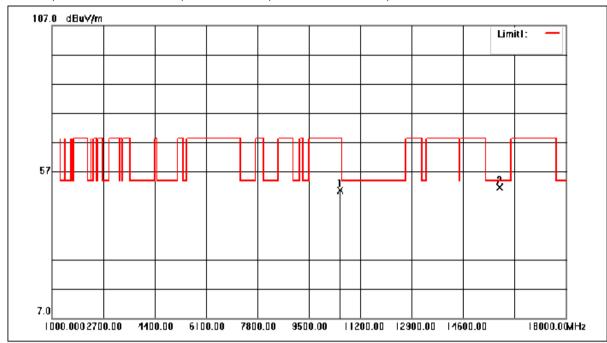
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10540.000	50.21	0.44	50.65	68.30	-17.65	peak
2	15810.000	45.22	6.29	51.51	54.00	-2.49	peak



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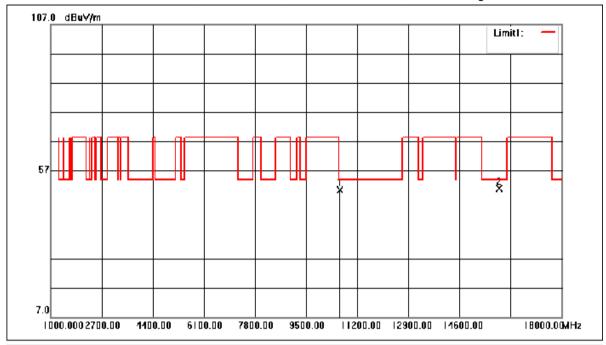
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# Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10620.000	49.93	0.46	50.39	54.00	-3.61	peak
2	15930.000	44.46	6.54	51.00	54.00	-3.00	peak



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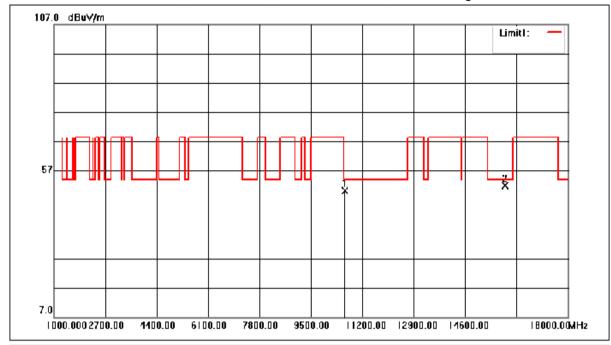
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# Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)	9	Correction factor(dB/m)		Limit (dBuV/m)	Margin	Remark
1	10620.000	49.77	0.46	50.23	54.00	(dB) -3.77	peak
2	15930.000	45.40	6.54	51.94	54.00	-2.06	peak



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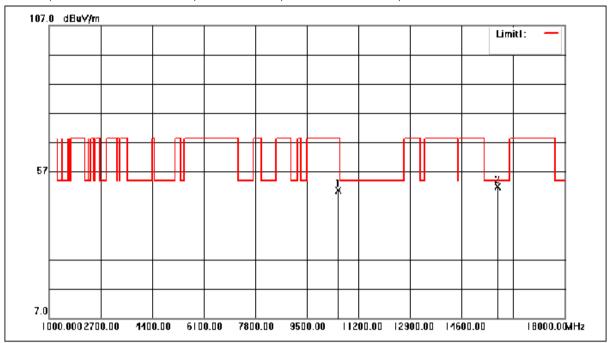
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10520.000	50.22	0.44	50.66	68.30	-17.64	peak
2	15780.000	45.71	6.23	51.94	54.00	-2.06	peak



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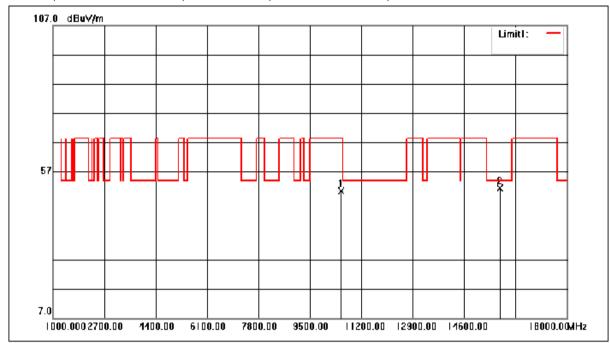
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10520.000	49.87	0.44	50.31	68.30	-17.99	peak
2	15780.000	45.08	6.23	51.31	54.00	-2.69	peak



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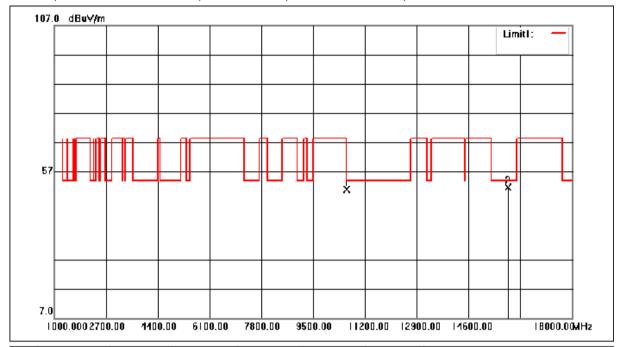
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# Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10600.000	50.41	0.46	50.87	54.00	-3.13	peak
2	15900.000	45.08	6.48	51.56	54.00	-2.44	peak



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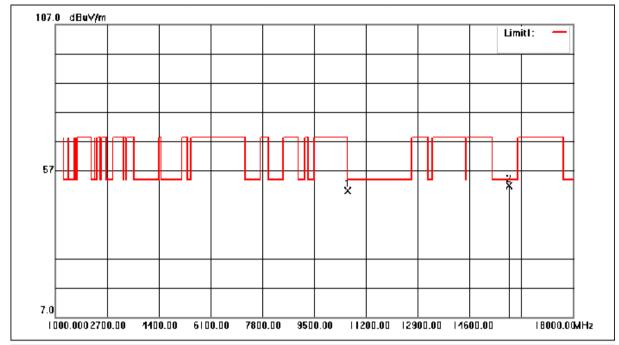
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10600.000	49.69	0.46	50.15	54.00	-3.85	peak
2	15900.000	45.39	6.48	51.87	54.00	-2.13	peak



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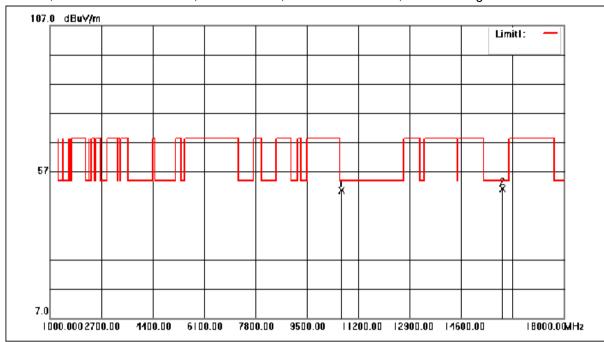
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10640.000	50.26	0.46	50.72	54.00	-3.28	peak
2	15960.000	44.45	6.60	51.05	54.00	-2.95	peak



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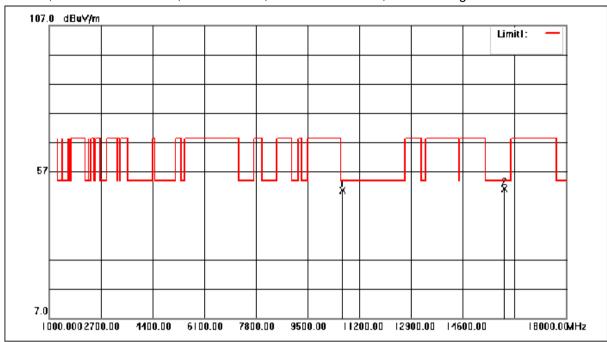
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



١	۱o.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1		10640.000	50.27	0.46	50.73	54.00	-3.27	peak
2	2	15960.000	44.50	6.60	51.10	54.00	-2.90	peak



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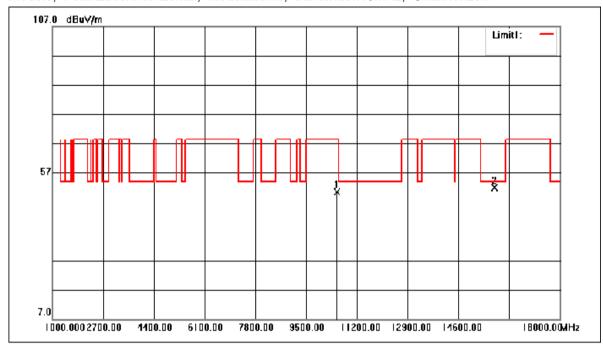
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	10540.000	50.00	0.44	50.44	68.30	-17.86	peak
Ī	2	15810.000	45.64	6.29	51.93	54.00	-2.07	peak



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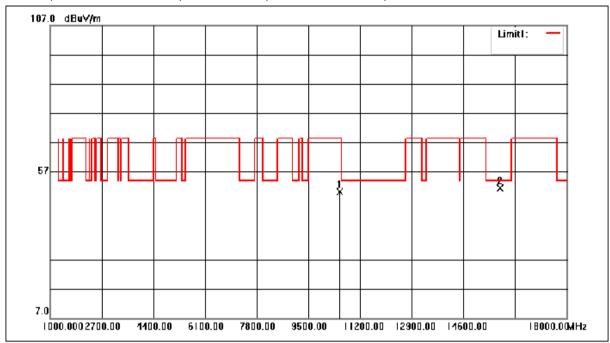
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No	Frequency (MHz)		Correction factor(dB/m)		Limit (dBuV/m)	Margin (dB)	Remark
1	10540.000	49.57	0.44	50.01	68.30	-18.29	peak
2	15810.000	45.13	6.29	51.42	54.00	-2.58	peak



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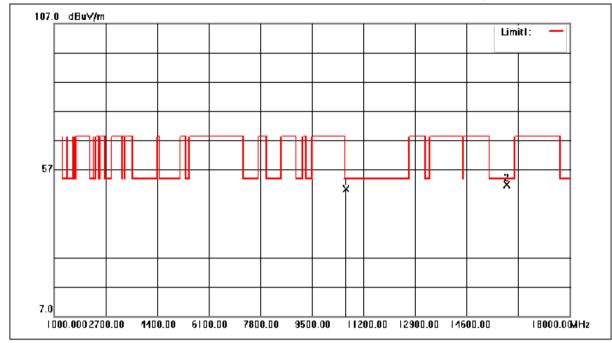
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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10620.000	49.99	0.46	50.45	54.00	-3.55	peak
2	15930.000	45.36	6.54	51.90	54.00	-2.10	peak



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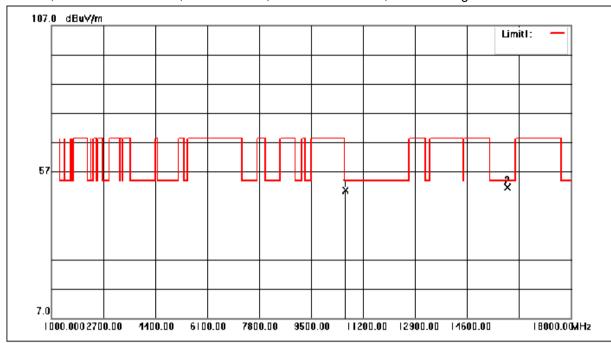
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	9	Correction		Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10620.000	50.15	0.46	50.61	54.00	-3.39	peak
2	15930.000	45.04	6.54	51.58	54.00	-2.42	peak



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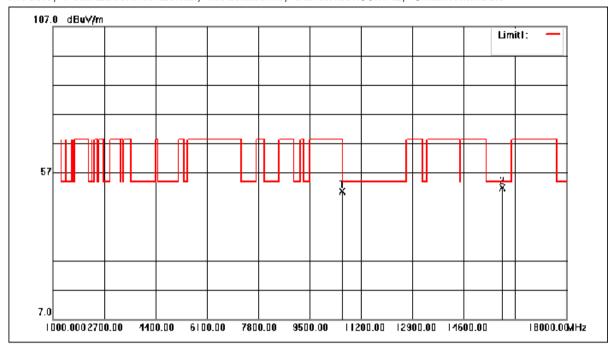
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	10580.000	50.06	0.46	50.52	68.30	-17.78	peak
2	15870.000	45.37	6.41	51.78	54.00	-2.22	peak



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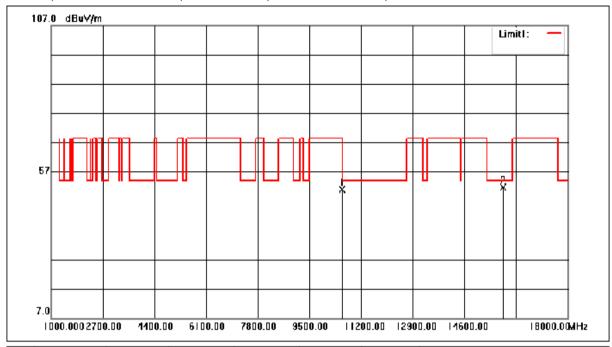
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



	No.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
ſ	1	10580.000	50.37	0.46	50.83	68.30	-17.47	peak
Γ	2	15870.000	45.19	6.41	51.60	54.00	-2.40	peak



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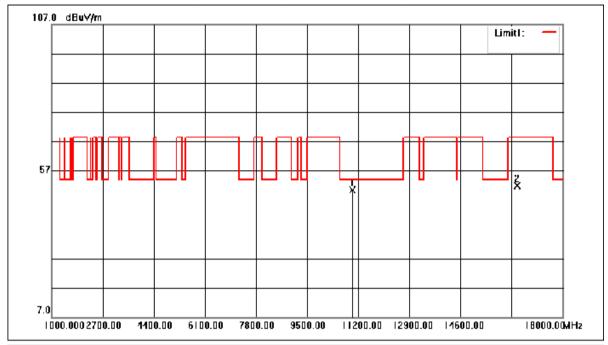
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11000.000	49.91	0.54	50.45	54.00	-3.55	peak
2	16500.000	43.43	8.43	51.86	68.30	-16.44	peak



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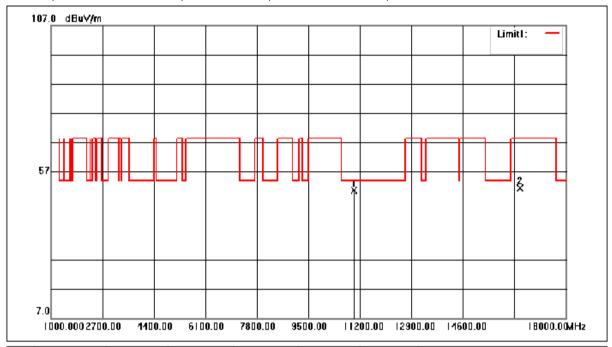
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11000.000	50.21	0.54	50.75	54.00	-3.25	peak
2	16500.000	42.91	8.43	51.34	68.30	-16.96	peak



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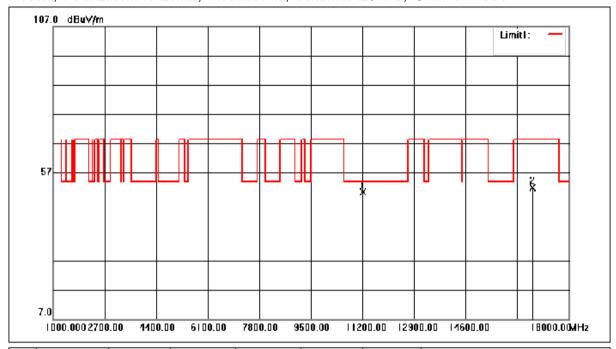
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11200.000	49.68	0.71	50.39	54.00	-3.61	peak
2	16800.000	42.92	8.89	51.81	68.30	-16.49	peak



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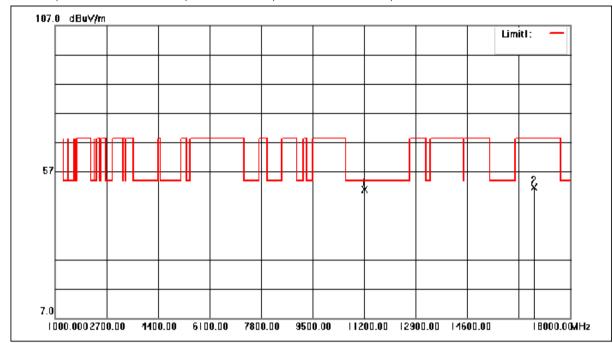
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11200.000	50.25	0.71	50.96	54.00	-3.04	peak
2	16800.000	42.66	8.89	51.55	68.30	-16.75	peak



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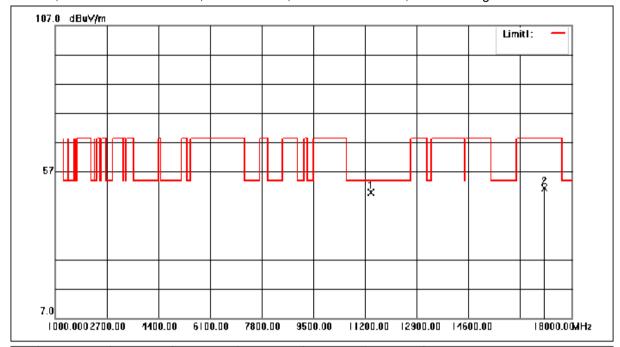
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11400.000	49.09	0.87	49.96	54.00	-4.04	peak
2	17100.000	42.27	9.13	51.40	68.30	-16.90	peak



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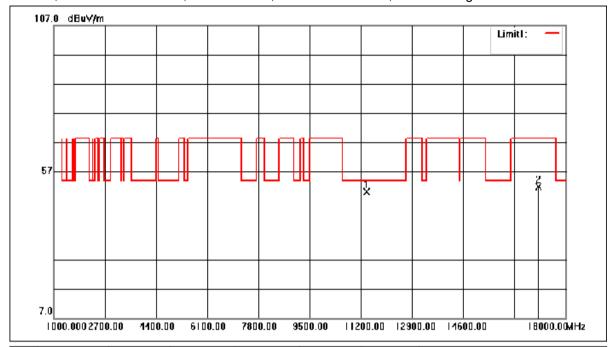
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11400.000	49.37	0.87	50.24	54.00	-3.76	peak
2	17100.000	42.64	9.13	51.77	68.30	-16.53	peak



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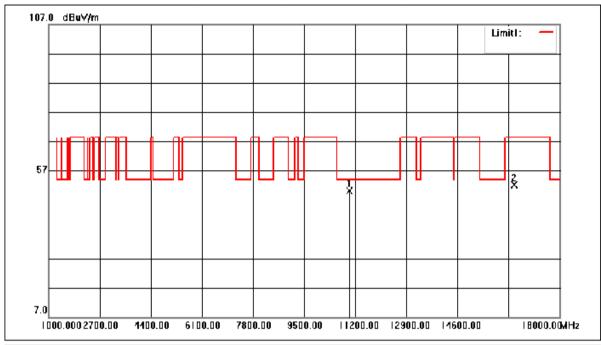
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11000.000	49.50	0.54	50.04	54.00	-3.96	peak
2	16500.000	43.79	8.43	52.22	68.30	-16.08	peak



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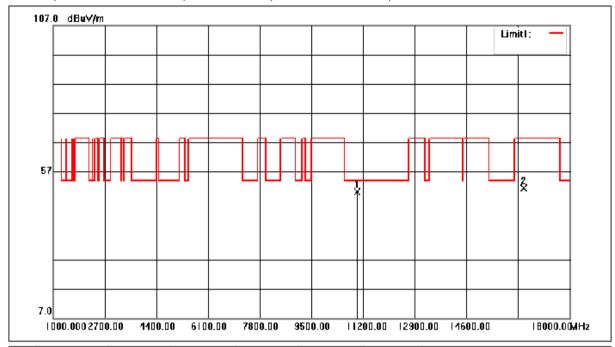
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11000.000	49.58	0.54	50.12	54.00	-3.88	peak
2	16500.000	42.98	8.43	51.41	68.30	-16.89	peak



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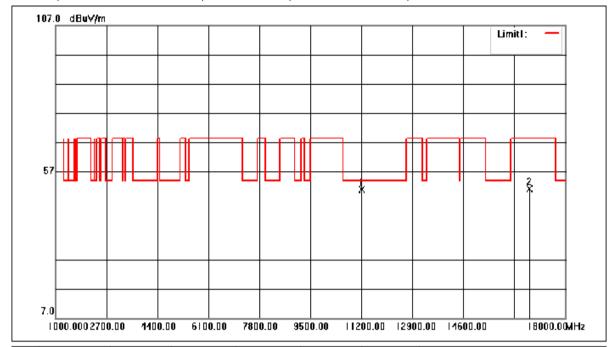
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11200.000	50.15	0.71	50.86	54.00	-3.14	peak
2	16800.000	42.13	8.89	51.02	68.30	-17.28	peak



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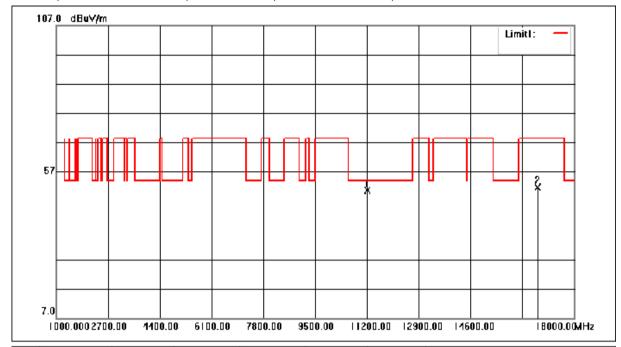
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11200.000	50.01	0.71	50.72	54.00	-3.28	peak
2	16800.000	42.75	8.89	51.64	68.30	-16.66	peak



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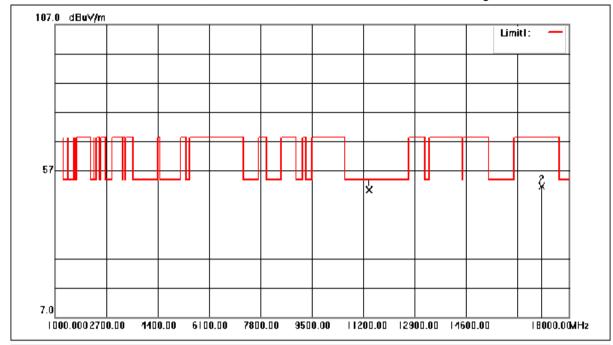
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11400.000	49.39	0.87	50.26	54.00	-3.74	peak
2	17100.000	42.41	9.13	51.54	68.30	-16.76	peak



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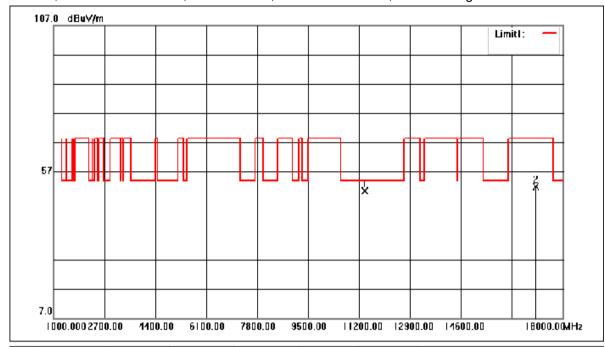
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11400.000	49.62	0.87	50.49	54.00	-3.51	peak
2	17100.000	42.73	9.13	51.86	68.30	-16.44	peak



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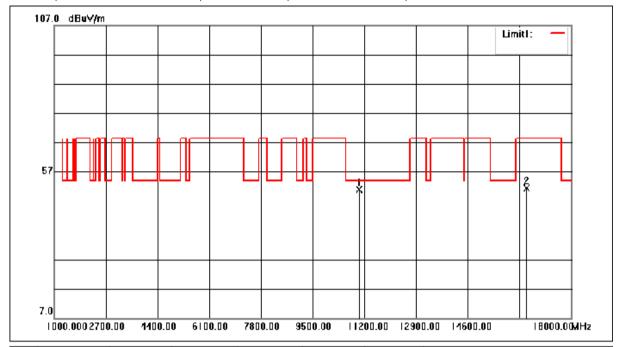
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11020.000	50.33	0.56	50.89	54.00	-3.11	peak
2	16530.000	42.79	8.47	51.26	68.30	-17.04	peak



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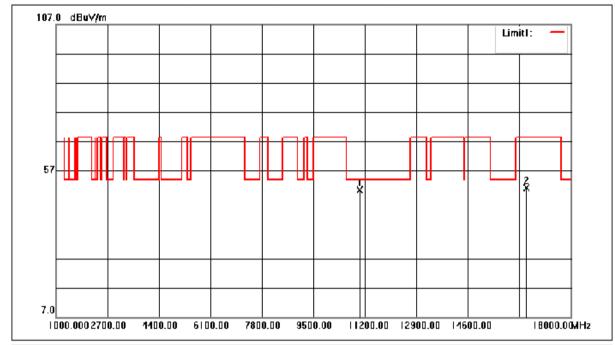
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11020.000	49.91	0.56	50.47	54.00	-3.53	peak
2	16530.000	42.68	8.47	51.15	68.30	-17.15	peak



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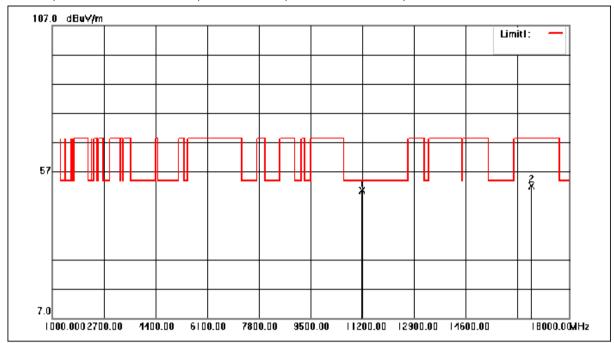
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:middle



Ν	Vo.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1		11180.000	49.92	0.69	50.61	54.00	-3.39	peak
2	2	16770.000	43.30	8.84	52.14	68.30	-16.16	peak



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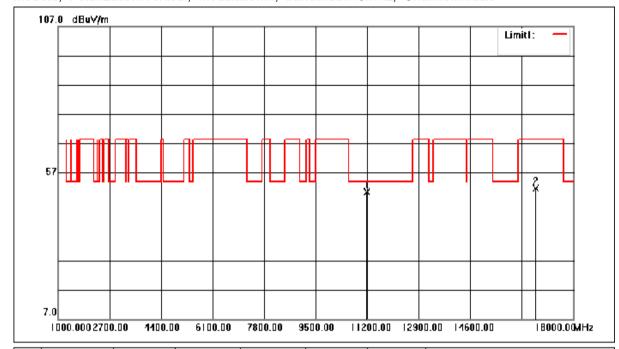
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11180.000	49.65	0.69	50.34	54.00	-3.66	peak
2	16770.000	42.68	8.84	51.52	68.30	-16.78	peak



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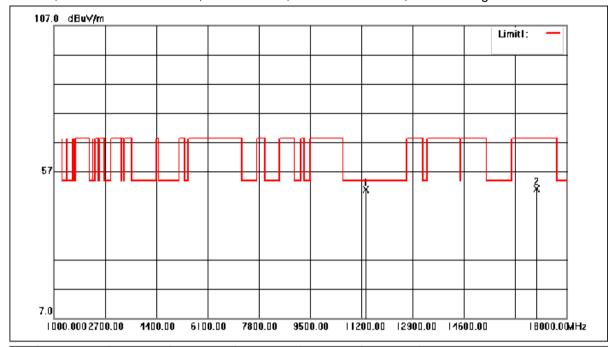
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11340.000	50.00	0.82	50.82	54.00	-3.18	peak
2	17010.000	41.94	9.18	51.12	68.30	-17.18	peak



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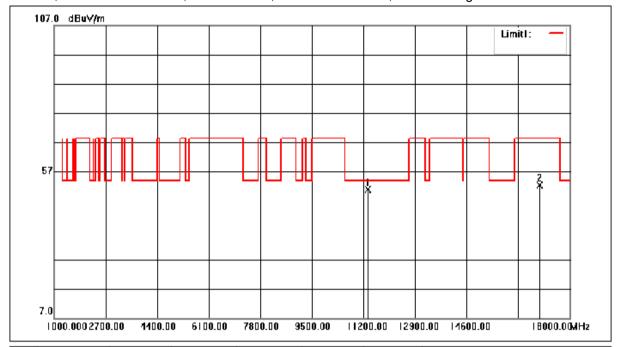
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11340.000	49.97	0.82	50.79	54.00	-3.21	peak
2	17010.000	43.08	9.18	52.26	68.30	-16.04	peak



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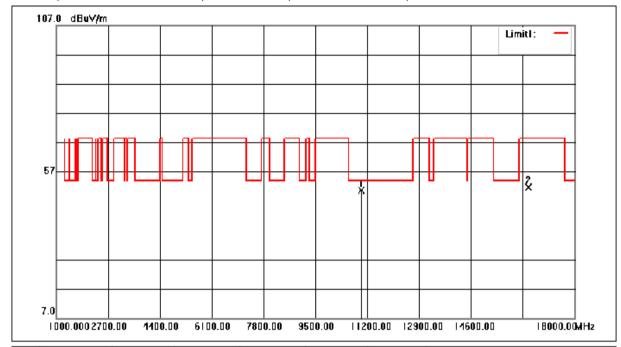
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11000.000	50.20	0.54	50.74	54.00	-3.26	peak
2	16500.000	43.13	8.43	51.56	68.30	-16.74	peak



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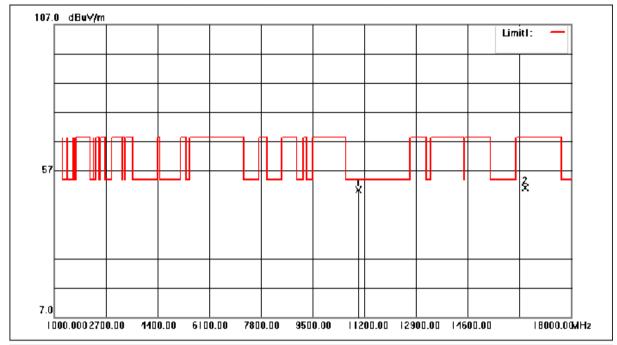
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11000.000	49.78	0.54	50.32	54.00	-3.68	peak
2	16500.000	42.59	8.43	51.02	68.30	-17.28	peak



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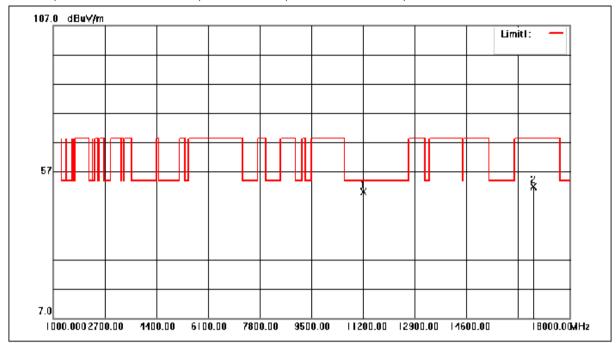
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11200.000	49.41	0.71	50.12	54.00	-3.88	peak
2	16800.000	42.94	8.89	51.83	68.30	-16.47	peak



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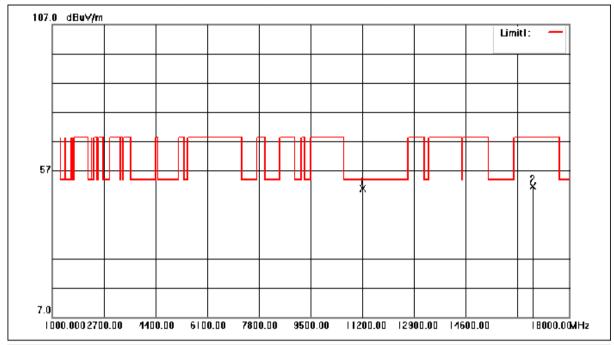
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



١	Vo.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1		11200.000	50.05	0.71	50.76	54.00	-3.24	peak
2	)	16800.000	42.62	8.89	51.51	68.30	-16.79	peak



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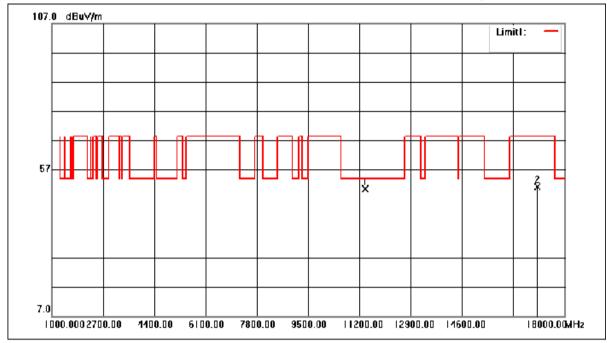
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



N	lo.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1		11400.000	49.56	0.87	50.43	54.00	-3.57	peak
2		17100.000	41.97	9.13	51.10	68.30	-17.20	peak



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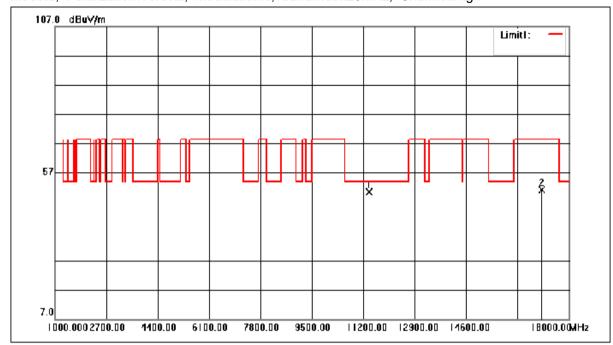
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11400.000	49.50	0.87	50.37	54.00	-3.63	peak
2	17100.000	42.08	9.13	51.21	68.30	-17.09	peak



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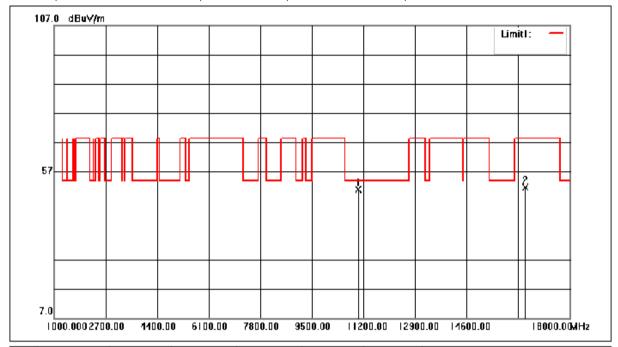
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11020.000	50.29	0.56	50.85	54.00	-3.15	peak
2	16530.000	43.12	8.47	51.59	68.30	-16.71	peak



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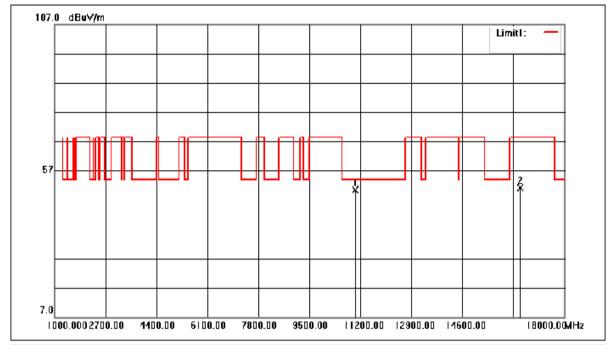
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11020.000	49.83	0.56	50.39	54.00	-3.61	peak
2	16530.000	42.72	8.47	51.19	68.30	-17.11	peak



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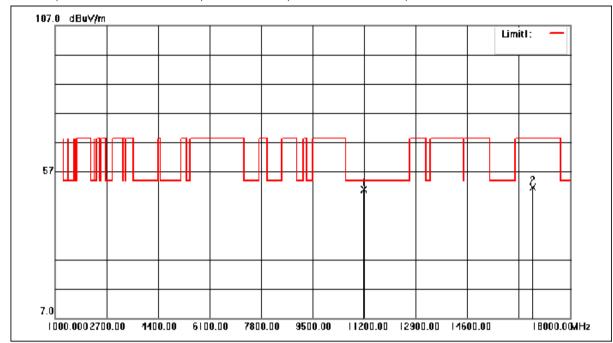
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11180.000	50.24	0.69	50.93	54.00	-3.07	peak
2	16770.000	42.88	8.84	51.72	68.30	-16.58	peak



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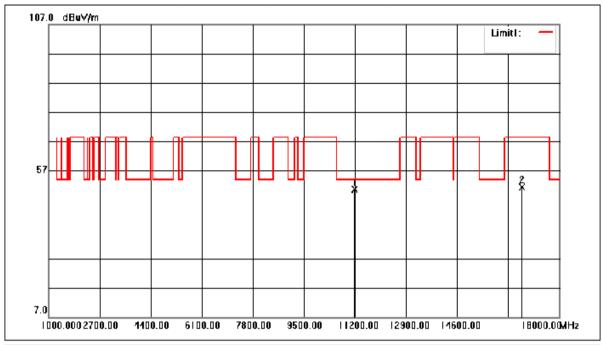
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:middle



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11180.000	49.95	0.69	50.64	54.00	-3.36	peak
2	16770.000	42.55	8.84	51.39	68.30	-16.91	peak



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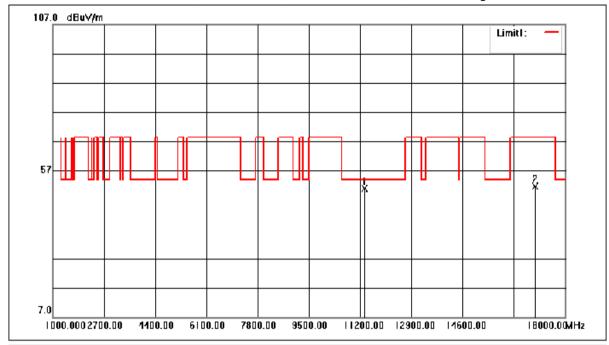
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11340.000	50.12	0.82	50.94	54.00	-3.06	peak
2	17010.000	42.47	9.18	51.65	68.30	-16.65	peak



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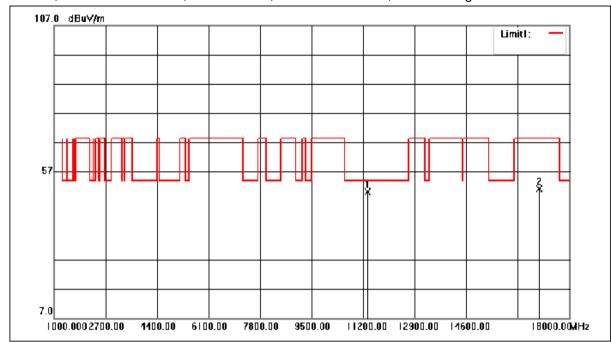
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11340.000	49.36	0.82	50.18	54.00	-3.82	peak
2	17010.000	42.03	9.18	51.21	68.30	-17.09	peak



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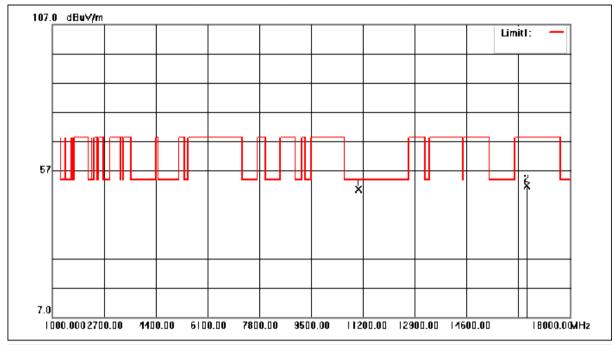
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	50.01	0.59	50.60	54.00	-3.40	peak
2	16590.000	43.39	8.56	51.95	68.30	-16.35	peak



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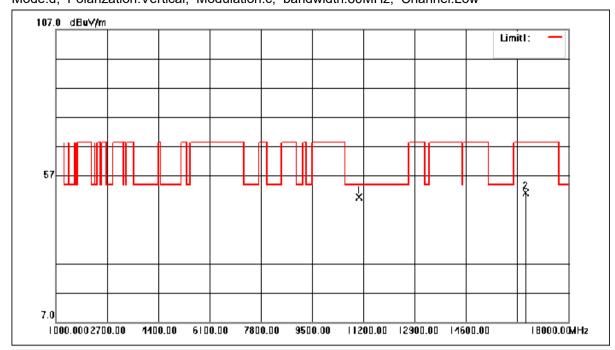
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11060.000	49.11	0.59	49.70	54.00	-4.30	peak
2	16590.000	42.49	8.56	51.05	68.30	-17.25	peak



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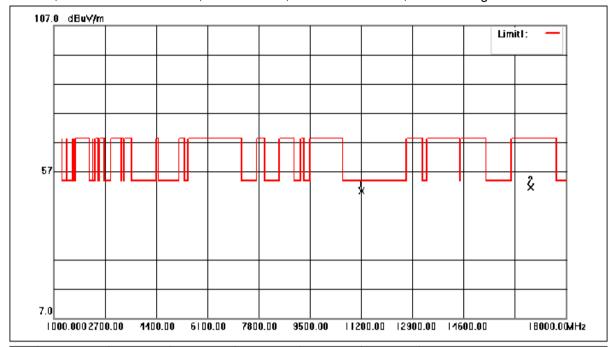
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11220.000	49.65	0.72	50.37	54.00	-3.63	peak
2	16830.000	42.74	8.93	51.67	68.30	-16.63	peak



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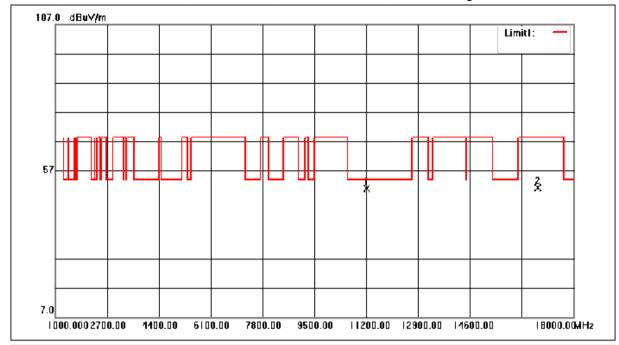
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11220.000	50.04	0.72	50.76	54.00	-3.24	peak
2	16830.000	42.14	8.93	51.07	68.30	-17.23	peak



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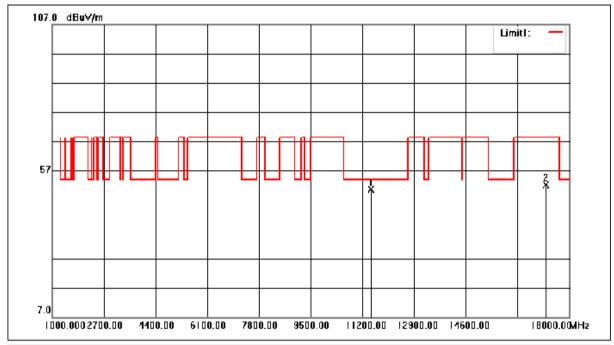
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



N	0.	Frequency (MHz)	9	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1		11490.000	49.58	0.94	50.52	54.00	-3.48	peak
2		17235.000	43.01	9.05	52.06	68.30	-16.24	peak



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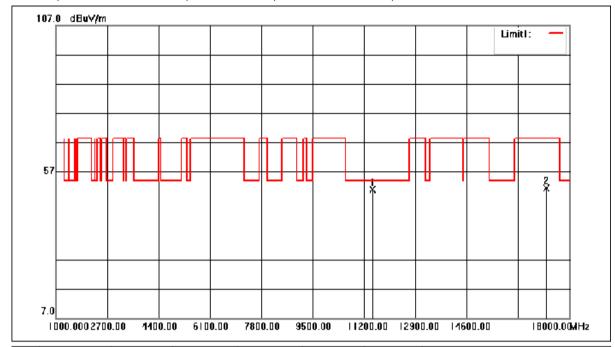
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11490.000	50.02	0.94	50.96	54.00	-3.04	peak
2	17235.000	42.32	9.05	51.37	68.30	-16.93	peak



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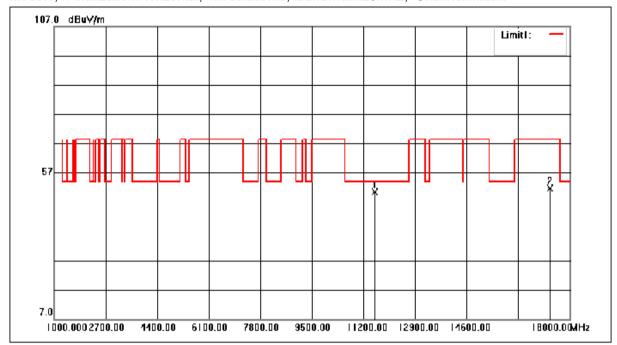
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11570.000	49.09	1.18	50.27	54.00	-3.73	peak
2	17355.000	42.56	8.98	51.54	68.30	-16.76	peak



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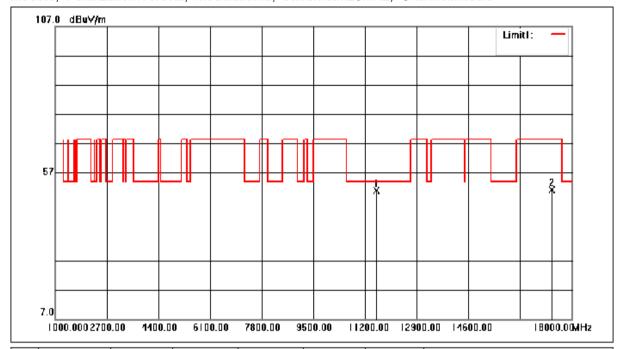
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## Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11570.000	49.71	1.18	50.89	54.00	-3.11	peak
2	17355.000	42.14	8.98	51.12	68.30	-17.18	peak



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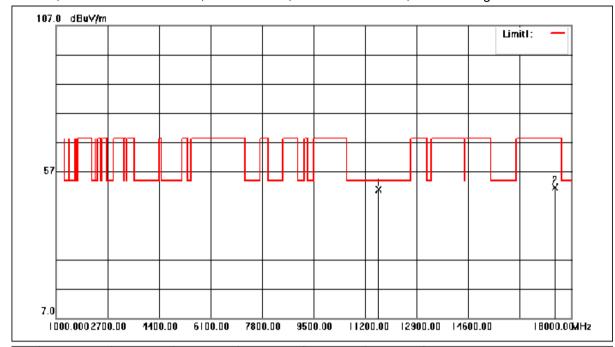
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11650.000	49.40	1.45	50.85	54.00	-3.15	peak
2	17475.000	42.68	8.90	51.58	68.30	-16.72	peak



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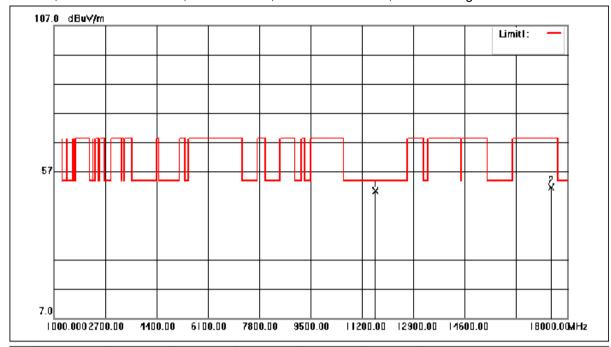
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11650.000	48.92	1.45	50.37	54.00	-3.63	peak
2	17475.000	42.78	8.90	51.68	68.30	-16.62	peak



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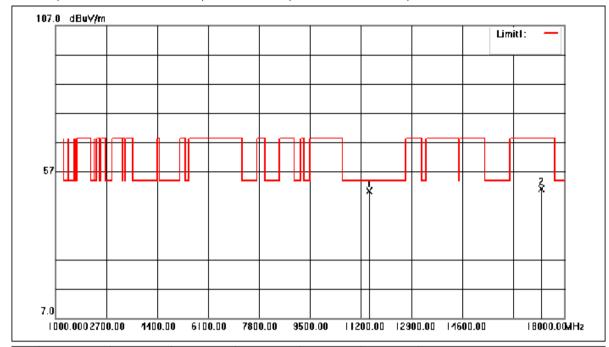
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11490.000	49.54	0.94	50.48	54.00	-3.52	peak
2	17235.000	42.20	9.05	51.25	68.30	-17.05	peak



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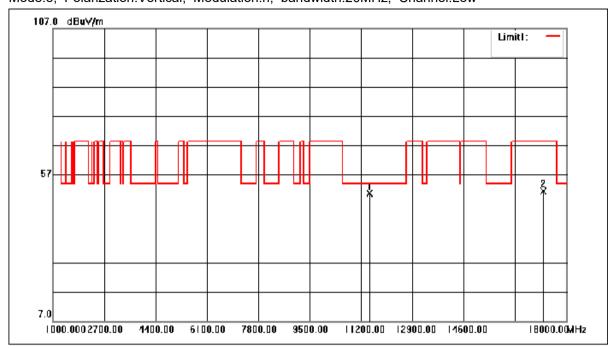
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11490.000	49.79	0.94	50.73	54.00	-3.27	peak
2	17235.000	42.45	9.05	51.50	68.30	-16.80	peak



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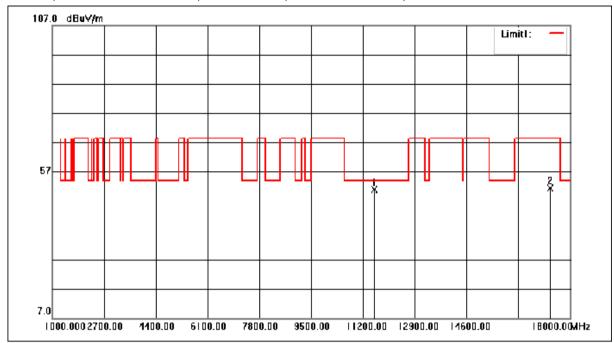
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11570.000	49.66	1.18	50.84	54.00	-3.16	peak
2	17355.000	42.35	8.98	51.33	68.30	-16.97	peak



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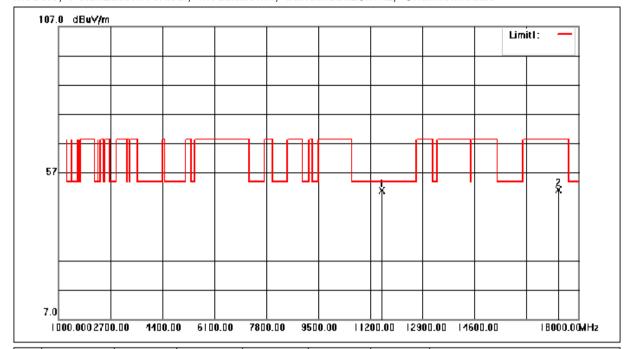
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## Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11570.000	49.64	1.18	50.82	54.00	-3.18	peak
2	17355.000	42.11	8.98	51.09	68.30	-17.21	peak



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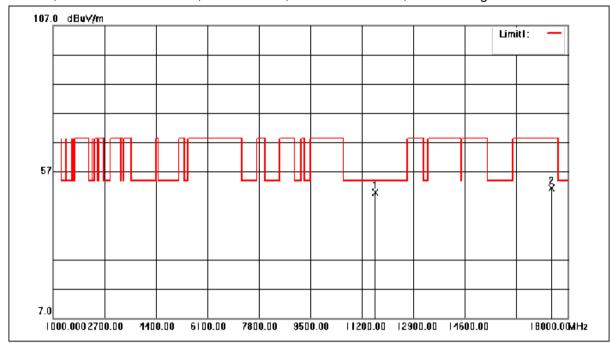
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11650.000	48.52	1.45	49.97	54.00	-4.03	peak
2	17475.000	42.46	8.90	51.36	68.30	-16.94	peak



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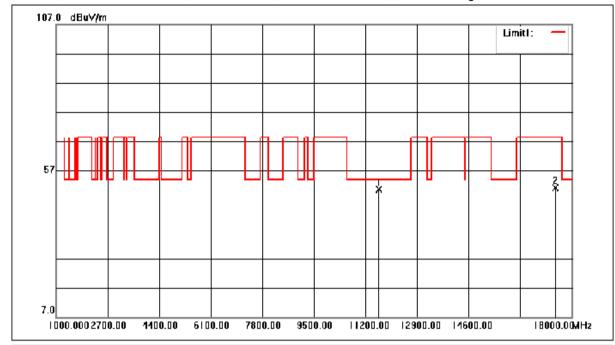
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11650.000	49.06	1.45	50.51	54.00	-3.49	peak
2	17475.000	42.29	8.90	51.19	68.30	-17.11	peak



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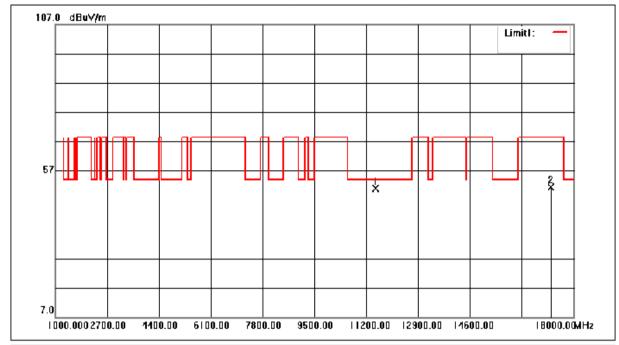
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11510.000	49.77	0.99	50.76	54.00	-3.24	peak
2	17265.000	42.29	9.03	51.32	68.30	-16.98	peak



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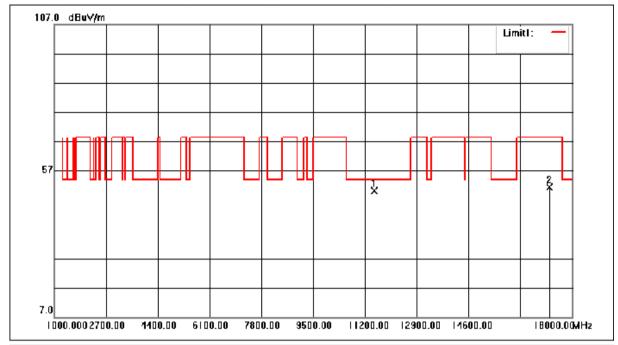
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11510.000	49.07	0.99	50.06	54.00	-3.94	peak
2	17265.000	42.44	9.03	51.47	68.30	-16.83	peak



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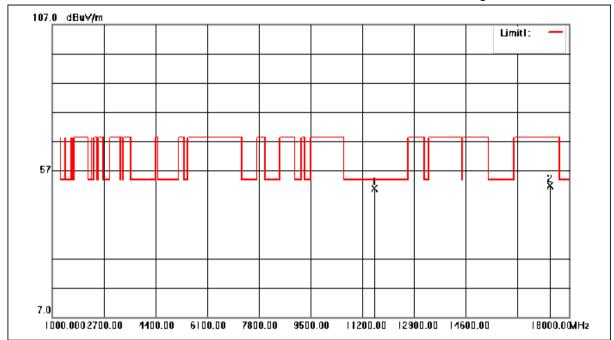
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11590.000	49.59	1.25	50.84	54.00	-3.16	peak
2	17385.000	42.95	8.96	51.91	68.30	-16.39	peak



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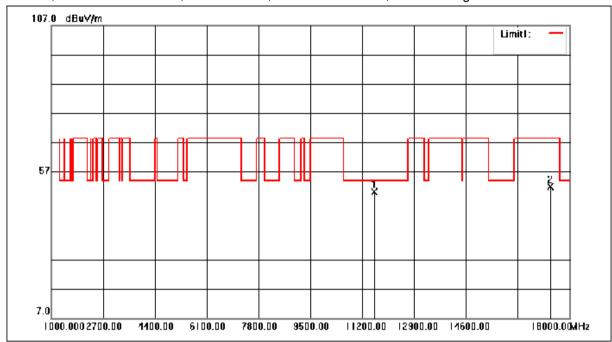
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	48.92	1.25	50.17	54.00	-3.83	peak
2	17385.000	42.94	8.96	51.90	68.30	-16.40	peak



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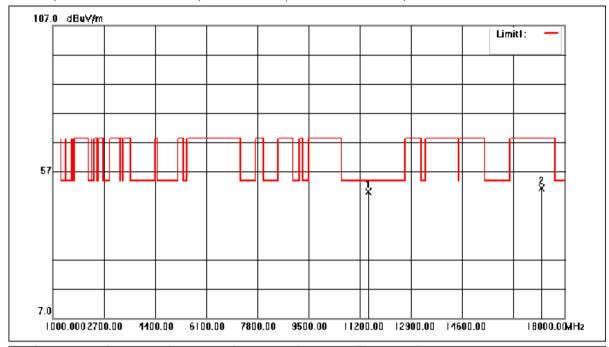
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11490.000	49.24	0.94	50.18	54.00	-3.82	peak
2	17235.000	42.29	9.05	51.34	68.30	-16.96	peak



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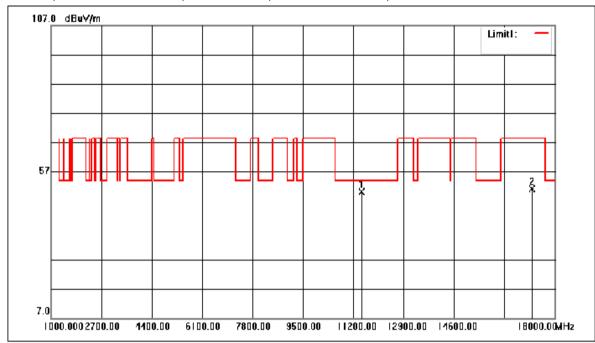
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11490.000	49.16	0.94	50.10	54.00	-3.90	peak
2	17235.000	42.00	9.05	51.05	68.30	-17.25	peak



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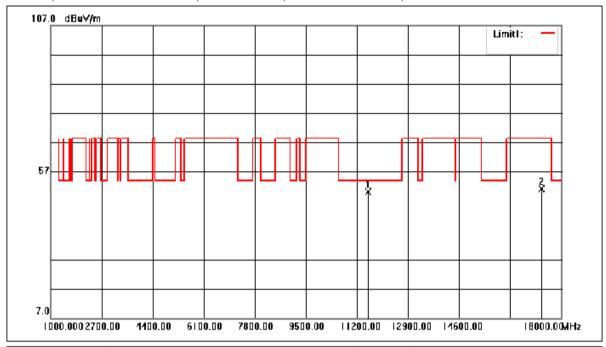
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11570.000	48.96	1.18	50.14	54.00	-3.86	peak
2	17355.000	42.03	8.98	51.01	68.30	-17.29	peak



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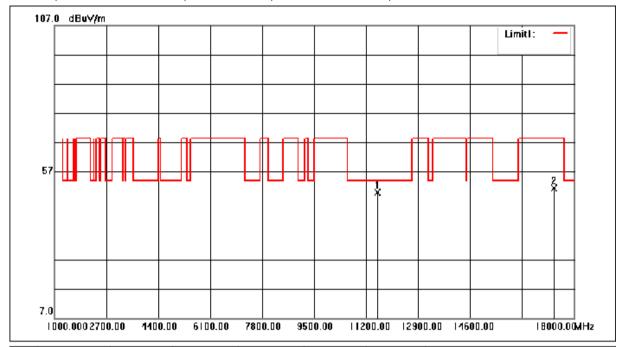
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11570.000	48.82	1.18	50.00	54.00	-4.00	peak
2	17355.000	42.41	8.98	51.39	68.30	-16.91	peak



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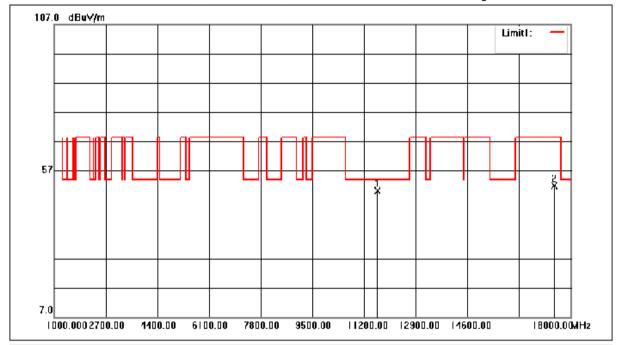
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### Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11650.000	48.76	1.45	50.21	54.00	-3.79	peak
2	17475.000	42.95	8.90	51.85	68.30	-16.45	peak



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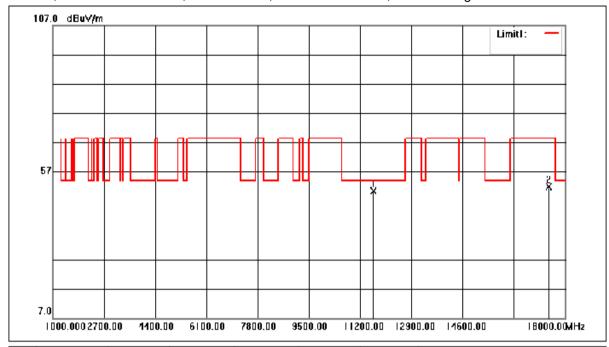
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11650.000	49.01	1.45	50.46	54.00	-3.54	peak
2	17475.000	42.97	8.90	51.87	68.30	-16.43	peak



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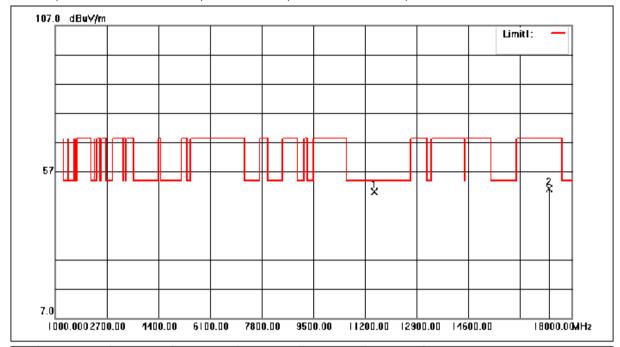
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No	. Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11510.000	49.09	0.99	50.08	54.00	-3.92	peak
2	17265.000	42.11	9.03	51.14	68.30	-17.16	peak



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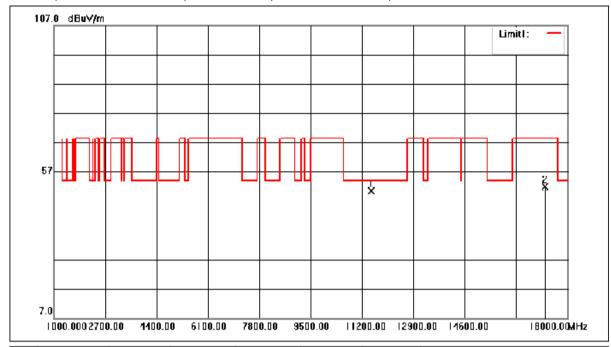
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11510.000	49.28	0.99	50.27	54.00	-3.73	peak
2	17265.000	42.97	9.03	52.00	68.30	-16.30	peak



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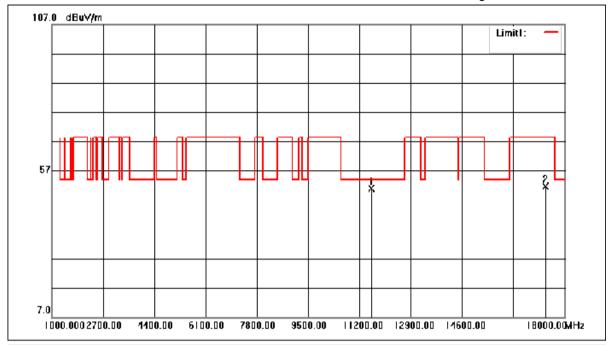
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	11590.000	49.54	1.25	50.79	54.00	-3.21	peak
2	17385.000	42.56	8.96	51.52	68.30	-16.78	peak



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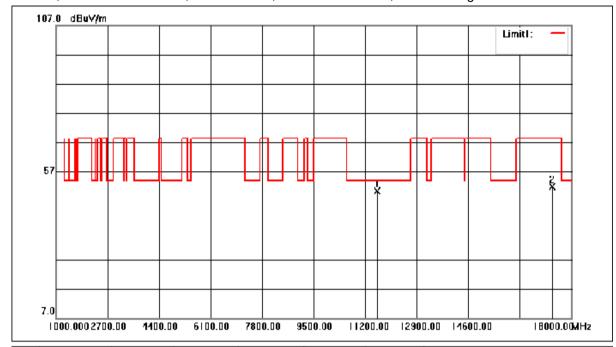
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11590.000	49.09	1.25	50.34	54.00	-3.66	peak
2	17385.000	43.01	8.96	51.97	68.30	-16.33	peak



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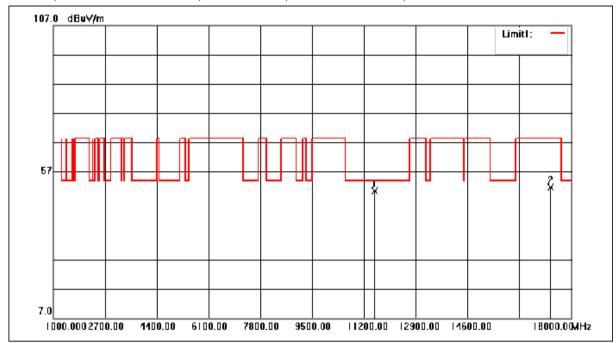
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



N	o.   F	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1		11550.000	49.36	1.12	50.48	54.00	-3.52	peak
2	·	17325.000	42.57	8.99	51.56	68.30	-16.74	peak



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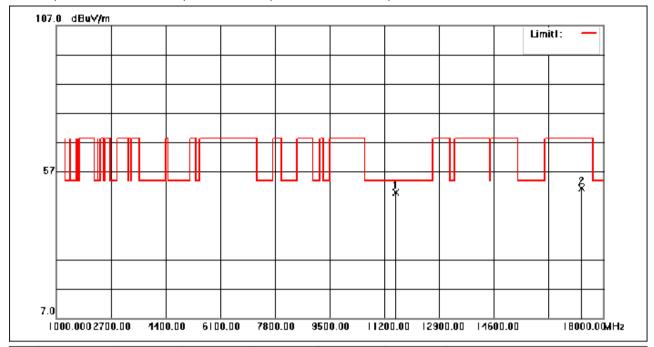
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### Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	11550.000	48.72	1.12	49.84	54.00	-4.16	peak
2	17325.000	42.45	8.99	51.44	68.30	-16.86	peak



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

Report No.: SHCR220100002902

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### 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

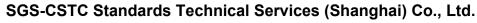
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field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



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### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24 Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test mode

b: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.

c: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.

d: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.

e: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.



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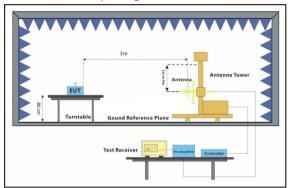
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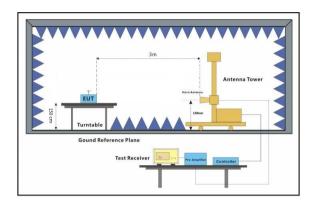


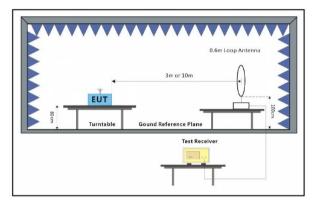


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### 7.9.2 Test Setup Diagram









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



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#### 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 a modulation and MIMO antenna operation for n/ac modulation produced the worst emissions. So the emissions produced from other operation are not recorded in report.



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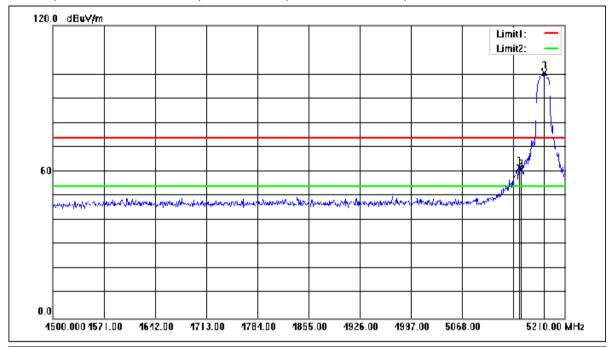
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5147.520	69.50	-7.85	61.65	74.00	-12.35	peak
2	5150.000	68.22	-7.84	60.38	74.00	-13.62	peak
3	5181.600	108.37	-7.77	100.60	74.00	26.60	peak



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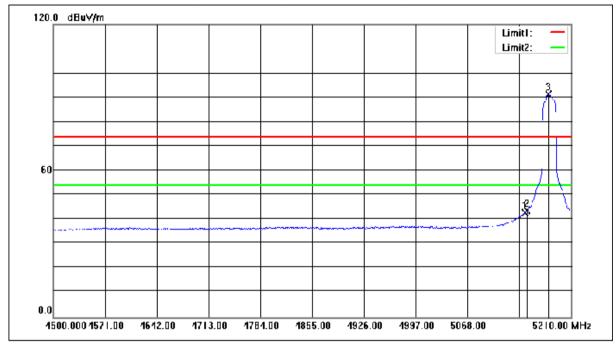
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Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.810	50.61	-7.85	42.76	54.00	-11.24	AVG
2	5150.000	51.61	-7.84	43.77	54.00	-10.23	AVG
3	5179.470	99.00	-7.77	91.23	54.00	37.23	AVG



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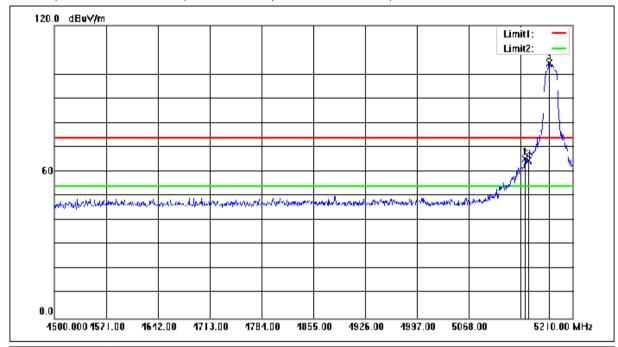
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5144.680	73.09	-7.85	65.24	74.00	-8.76	peak
2	5150.000	72.37	-7.84	64.53	74.00	-9.47	peak
3	5178.050	112.29	-7.78	104.51	74.00	30.51	peak



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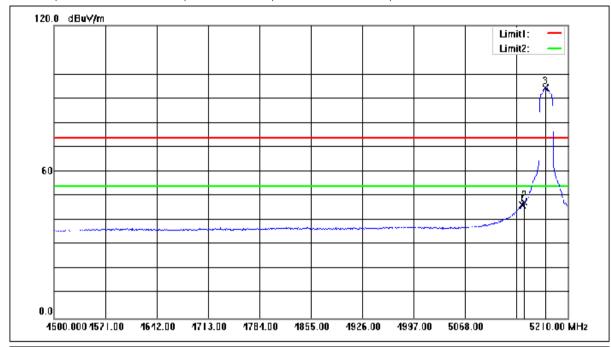
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Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.810	54.07	-7.85	46.22	54.00	-7.78	AVG
2	5150.000	55.42	-7.84	47.58	54.00	-6.42	AVG
3	5179.470	102.20	-7.77	94.43	54.00	40.43	AVG



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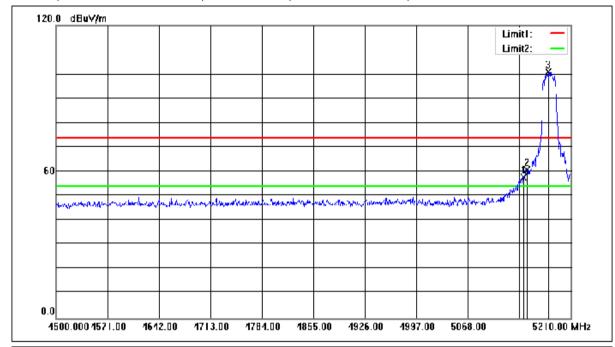
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.390	65.58	-7.85	57.73	74.00	-16.27	peak
2	5150.000	68.71	-7.84	60.87	74.00	-13.13	peak
3	5179.470	108.58	-7.77	100.81	74.00	26.81	peak



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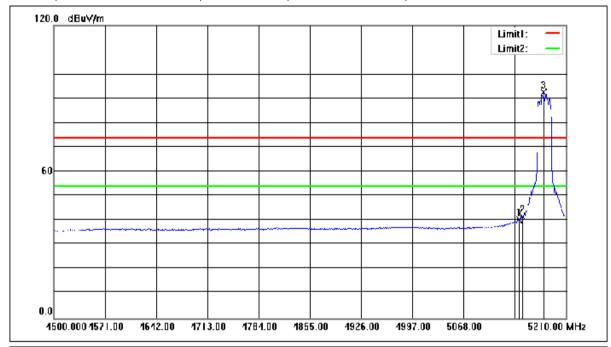
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.390	48.05	-7.85	40.20	54.00	-13.80	AVG
2	5150.000	49.32	-7.84	41.48	54.00	-12.52	AVG
3	5179.470	100.36	-7.77	92.59	54.00	38.59	AVG



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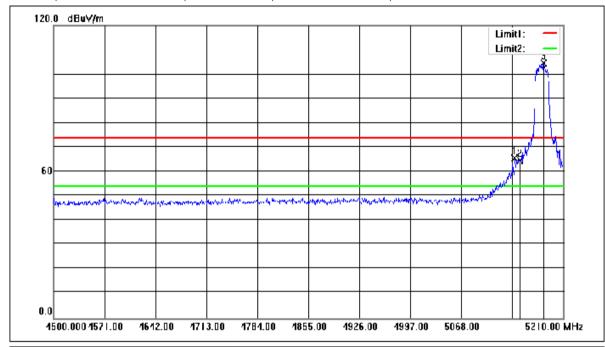
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5142.550	73.29	-7.86	65.43	74.00	-8.57	peak
2	5150.000	72.35	-7.84	64.51	74.00	-9.49	peak
3	5183.020	112.20	-7.76	104.44	74.00	30.44	peak



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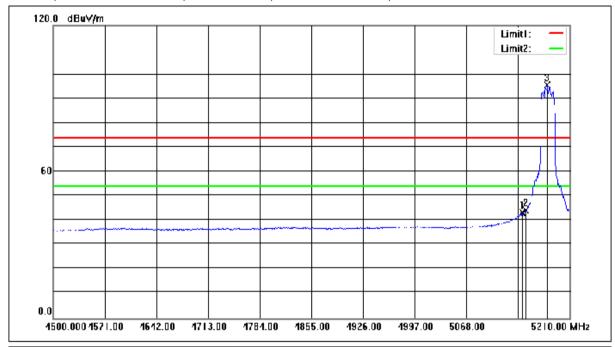
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5144.680	51.22	-7.85	43.37	54.00	-10.63	AVG
2	5150.000	52.20	-7.84	44.36	54.00	-9.64	AVG
3	5179.470	103.19	-7.77	95.42	54.00	41.42	AVG



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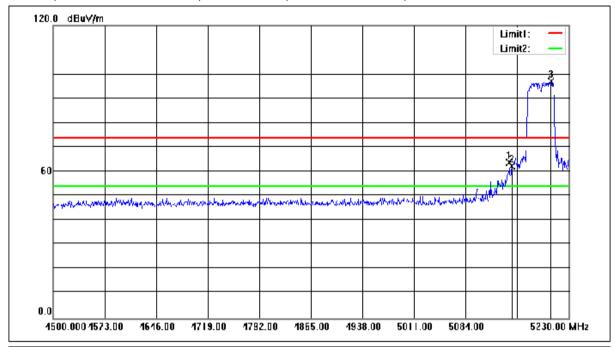
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.050	71.49	-7.85	63.64	74.00	-10.36	peak
2	5150.000	70.10	-7.84	62.26	74.00	-11.74	peak
3	5205.180	104.63	-7.71	96.92	74.00	22.92	peak



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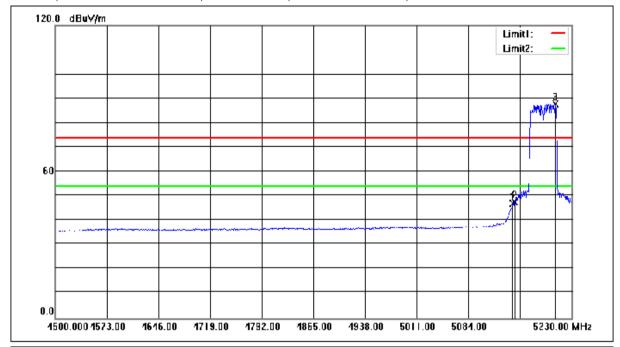
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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.780	54.70	-7.85	46.85	54.00	-7.15	AVG
2	5150.000	55.40	-7.84	47.56	54.00	-6.44	AVG
3	5207.370	95.56	-7.70	87.86	54.00	33.86	AVG



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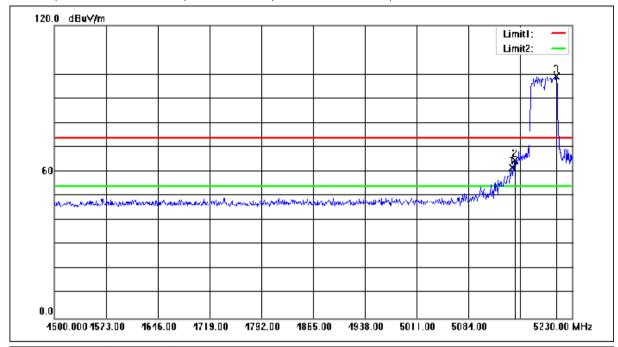
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.320	69.40	-7.85	61.55	74.00	-12.45	peak
2	5150.000	72.36	-7.84	64.52	74.00	-9.48	peak
3	5208.100	106.95	-7.70	99.25	74.00	25.25	peak



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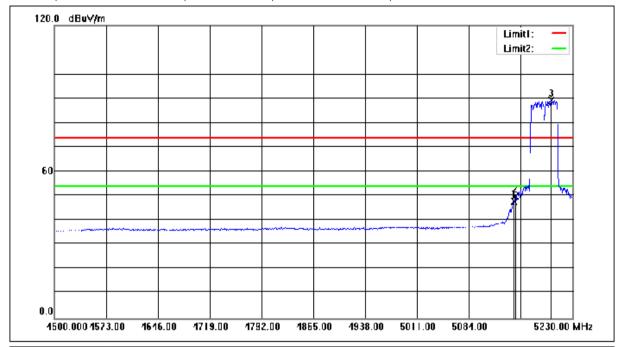
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Mode:b; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5147.510	55.81	-7.85	47.96	54.00	-6.04	AVG
2	5150.000	57.70	-7.84	49.86	54.00	-4.14	AVG
3	5200.070	97.05	-7.73	89.32	54.00	35.32	AVG



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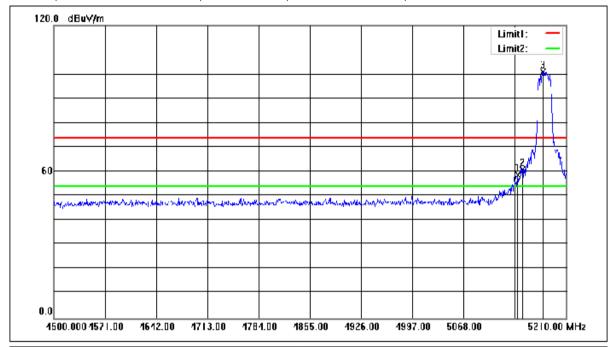
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5143.260	66.64	-7.86	58.78	74.00	-15.22	peak
2	5150.000	68.54	-7.84	60.70	74.00	-13.30	peak
3	5178.050	108.74	-7.78	100.96	74.00	26.96	peak



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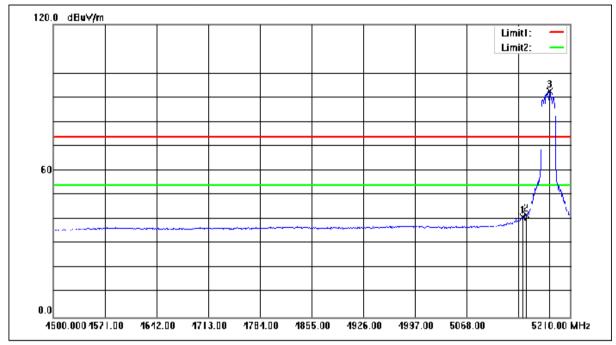
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.390	48.73	-7.85	40.88	54.00	-13.12	AVG
2	5150.000	49.70	-7.84	41.86	54.00	-12.14	AVG
3	5182.310	100.24	-7.77	92.47	54.00	38.47	AVG



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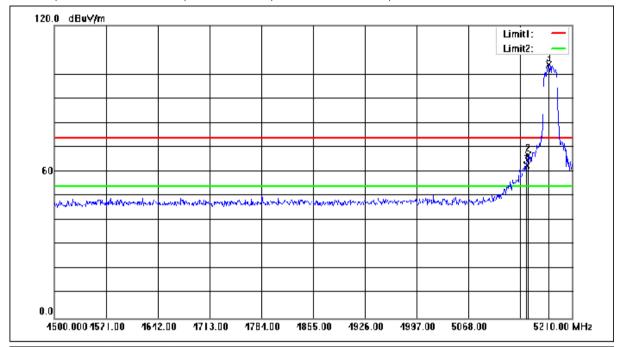
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5148.230	70.50	-7.84	62.66	74.00	-11.34	peak
2	5150.000	74.61	-7.84	66.77	74.00	-7.23	peak
3	5178.050	111.66	-7.78	103.88	74.00	29.88	peak



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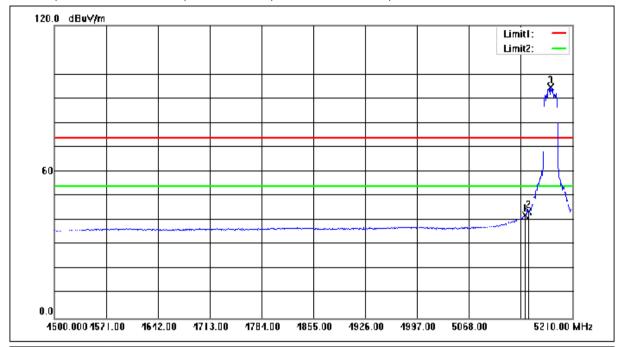
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.390	50.00	-7.85	42.15	54.00	-11.85	AVG
2	5150.000	51.52	-7.84	43.68	54.00	-10.32	AVG
3	5180.180	102.39	-7.77	94.62	54.00	40.62	AVG



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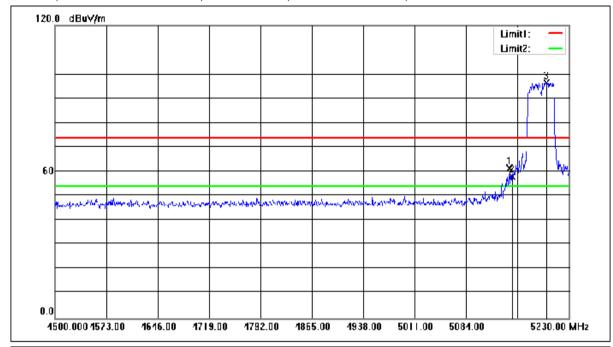
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.050	69.19	-7.85	61.34	74.00	-12.66	peak
2	5150.000	65.96	-7.84	58.12	74.00	-15.88	peak
3	5197.880	104.28	-7.74	96.54	74.00	22.54	peak



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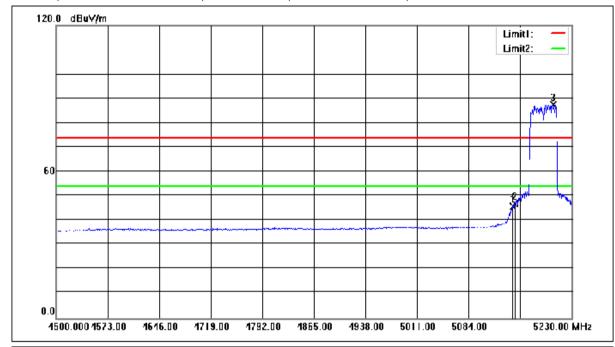
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.780	53.55	-7.85	45.70	54.00	-8.30	AVG
2	5150.000	54.94	-7.84	47.10	54.00	-6.90	AVG
3	5204.450	95.19	-7.71	87.48	54.00	33.48	AVG



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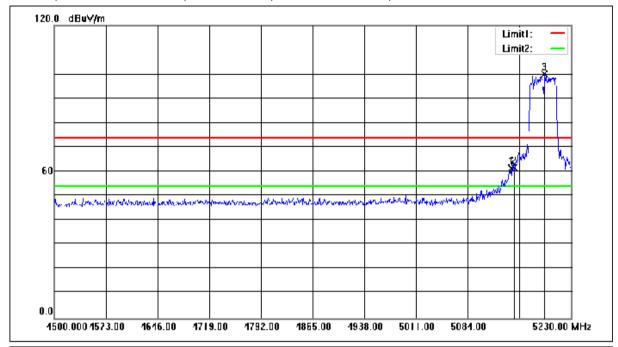
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.320	69.32	-7.85	61.47	74.00	-12.53	peak
2	5150.000	69.35	-7.84	61.51	74.00	-12.49	peak
3	5192.770	107.75	-7.75	100.00	74.00	26.00	peak



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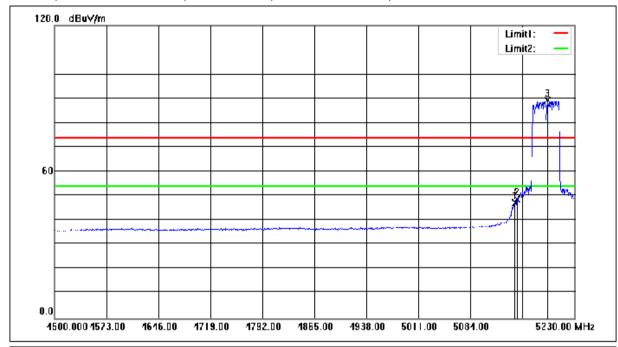
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5146.780	55.07	-7.85	47.22	54.00	-6.78	AVG
2	5150.000	56.66	-7.84	48.82	54.00	-5.18	AVG
3	5192.040	96.88	-7.75	89.13	54.00	35.13	AVG



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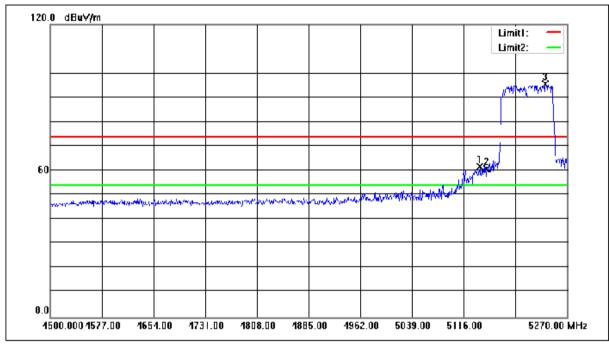
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.870	69.65	-7.87	61.78	74.00	-12.22	peak
2	5150.000	68.61	-7.84	60.77	74.00	-13.23	peak
3	5237.660	103.02	-7.58	95.44	74.00	21.44	peak



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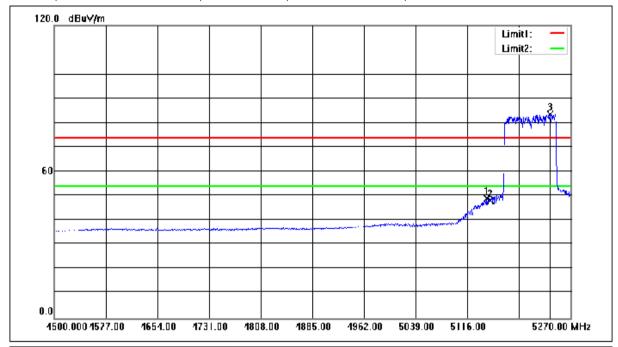
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Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.260	56.84	-7.85	48.99	54.00	-5.01	AVG
2	5150.000	56.07	-7.84	48.23	54.00	-5.77	AVG
3	5239.970	91.18	-7.58	83.60	54.00	29.60	AVG



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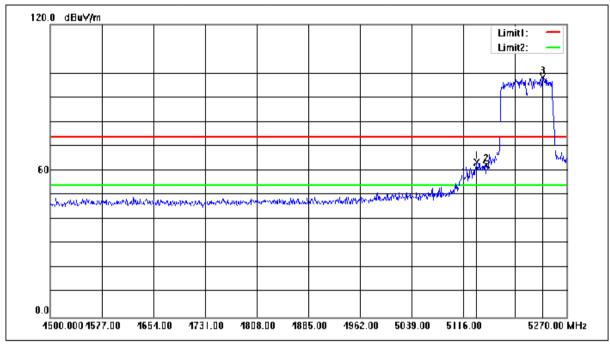
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency		Correction		Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5136.020	71.38	-7.88	63.50	74.00	-10.50	peak
2	5150.000	70.13	-7.84	62.29	74.00	-11.71	peak
3	5234.580	105.74	-7.59	98.15	74.00	24.15	peak



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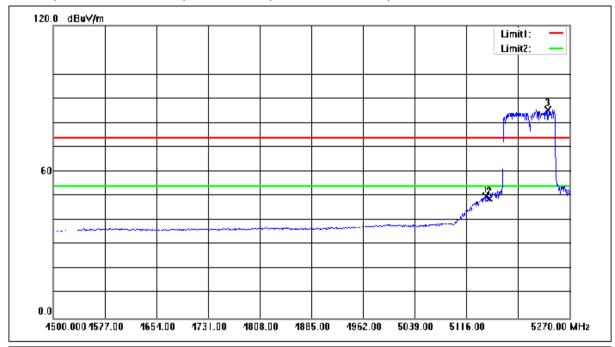
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Mode:b; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5145.260	57.91	-7.85	50.06	54.00	-3.94	AVG
2	5150.000	56.78	-7.84	48.94	54.00	-5.06	AVG
3	5237.660	92.99	-7.58	85.41	54.00	31.41	AVG



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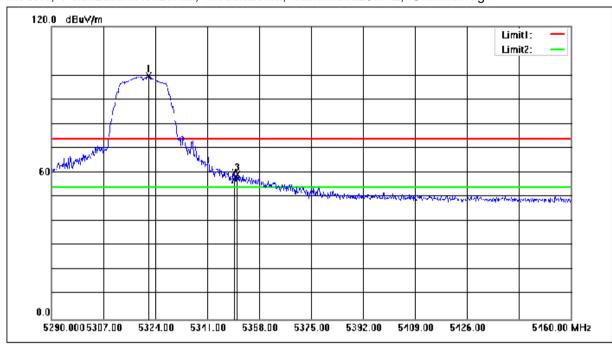
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5321.790	107.14	-7.26	99.88	74.00	25.88	peak
2	5350.000	64.43	-7.15	57.28	74.00	-16.72	peak
3	5350.860	66.34	-7.14	59.20	74.00	-14.80	peak



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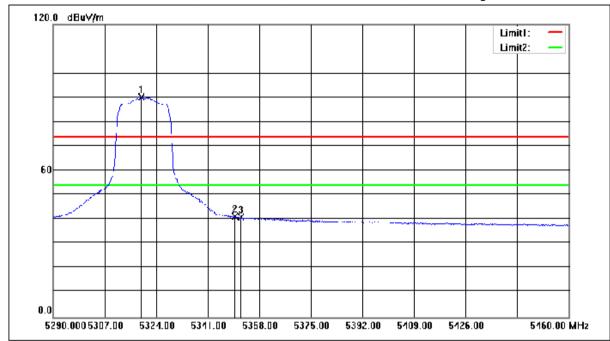
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Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5319.070	97.37	-7.27	90.10	54.00	36.10	AVG
2	5350.000	48.28	-7.15	41.13	54.00	-12.87	AVG
3	5351.880	47.97	-7.14	40.83	54.00	-13.17	AVG



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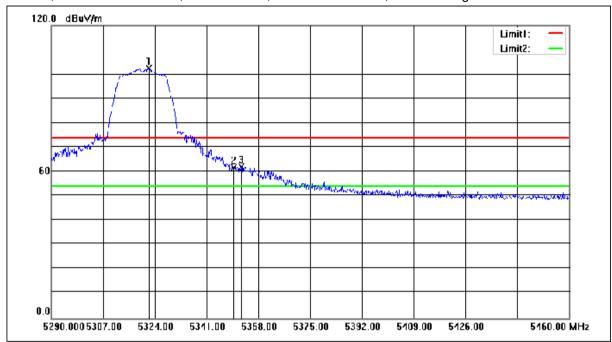
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5321.960	109.68	-7.25	102.43	74.00	28.43	peak
2	5350.000	68.93	-7.15	61.78	74.00	-12.22	peak
3	5352.390	69.22	-7.14	62.08	74.00	-11.92	peak



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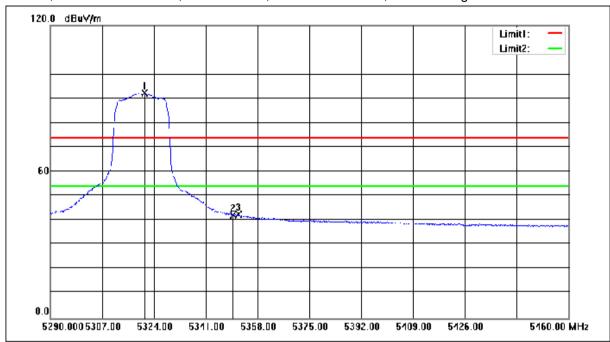
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5320.940	99.62	-7.26	92.36	54.00	38.36	AVG
2	5350.000	49.39	-7.15	42.24	54.00	-11.76	AVG
3	5351.710	49.55	-7.14	42.41	54.00	-11.59	AVG



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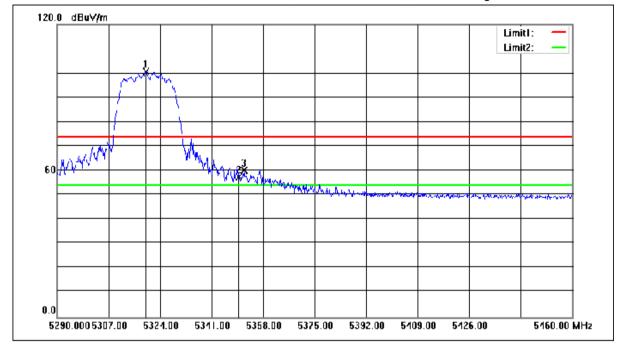
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# Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5319.240	108.02	-7.27	100.75	74.00	26.75	peak
2	5350.000	64.54	-7.15	57.39	74.00	-16.61	peak
3	5351.710	67.43	-7.14	60.29	74.00	-13.71	peak



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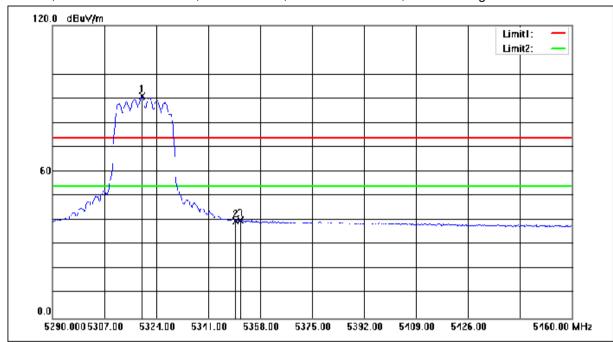
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# Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5319.240	98.46	-7.27	91.19	54.00	37.19	AVG
2	5350.000	46.97	-7.15	39.82	54.00	-14.18	AVG
3	5351.540	47.27	-7.14	40.13	54.00	-13.87	AVG



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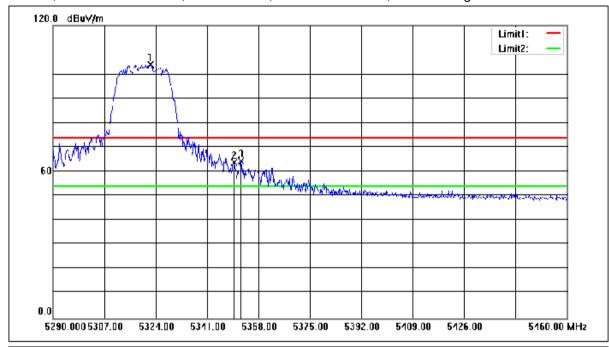
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5322.300	111.26	-7.25	104.01	74.00	30.01	peak
2	5350.000	70.92	-7.15	63.77	74.00	-10.23	peak
3	5352.220	71.43	-7.14	64.29	74.00	-9.71	peak



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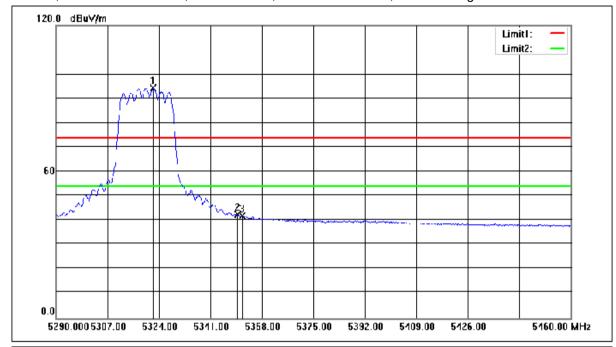
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# Mode:c; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



ſ	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
ſ	1	5322.130	101.56	-7.25	94.31	54.00	40.31	AVG
ſ	2	5350.000	49.63	-7.15	42.48	54.00	-11.52	AVG
ſ	3	5351.540	49.00	-7.14	41.86	54.00	-12.14	AVG



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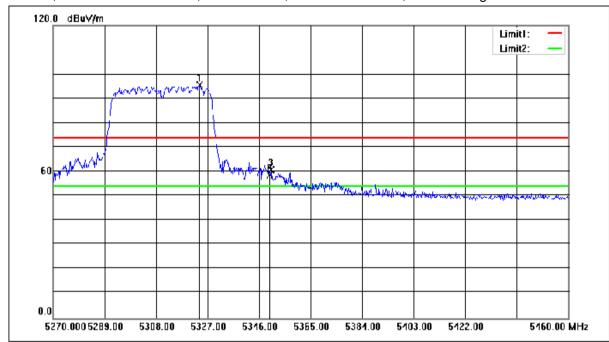
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5324.150	102.67	-7.24	95.43	74.00	21.43	peak
2	5350.000	65.77	-7.15	58.62	74.00	-15.38	peak
3	5350.370	67.84	-7.14	60.70	74.00	-13.30	peak



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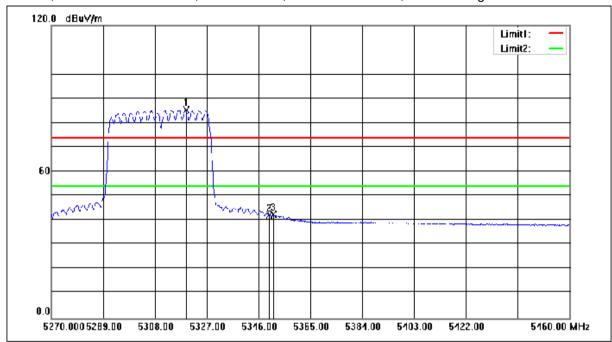
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5319.400	92.66	-7.27	85.39	54.00	31.39	AVG
2	5350.000	49.20	-7.15	42.05	54.00	-11.95	AVG
3	5351.320	49.58	-7.14	42.44	54.00	-11.56	AVG



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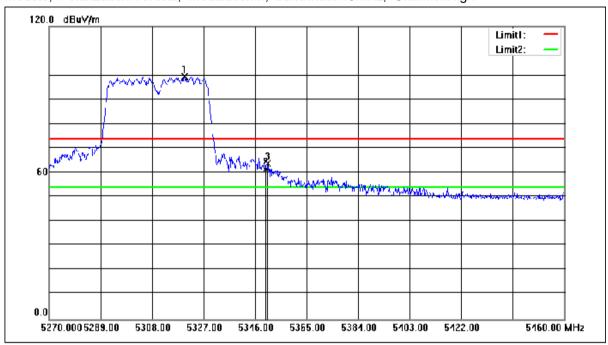
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5319.970	106.64	-7.26	99.38	74.00	25.38	peak
	2	5350.000	68.59	-7.15	61.44	74.00	-12.56	peak
Γ	3	5350.750	70.75	-7.14	63.61	74.00	-10.39	peak



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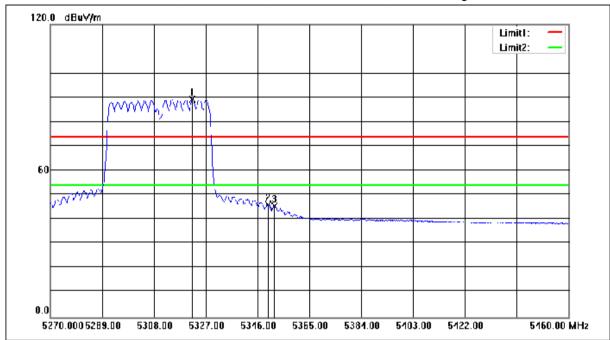
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Mode:c; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5322.060	96.55	-7.25	89.30	54.00	35.30	AVG
2	5350.000	53.10	-7.15	45.95	54.00	-8.05	AVG
3	5352.270	52.46	-7.14	45.32	54.00	-8.68	AVG



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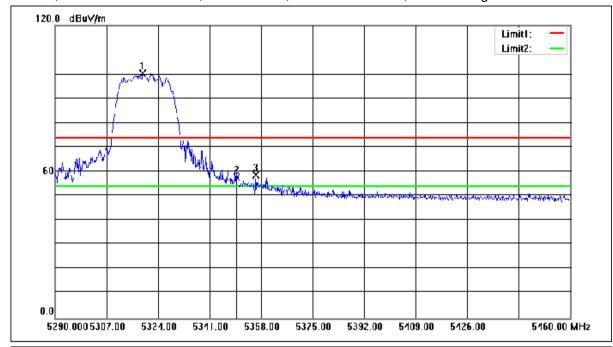
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# Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5318.900	107.62	-7.27	100.35	74.00	26.35	peak
2	5350.000	65.03	-7.15	57.88	74.00	-16.12	peak
3	5356.300	65.86	-7.12	58.74	74.00	-15.26	peak



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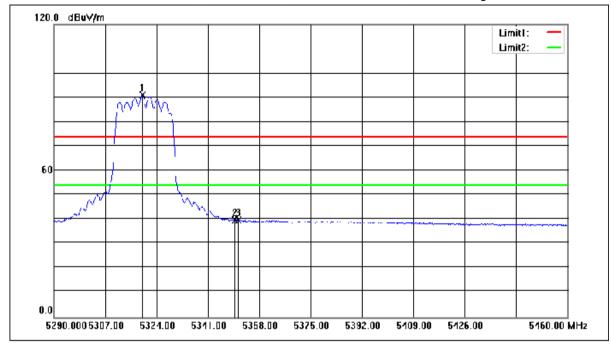
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5319.240	98.28	-7.27	91.01	54.00	37.01	AVG
2	5350.000	46.89	-7.15	39.74	54.00	-14.26	AVG
3	5351.030	46.95	-7.14	39.81	54.00	-14.19	AVG



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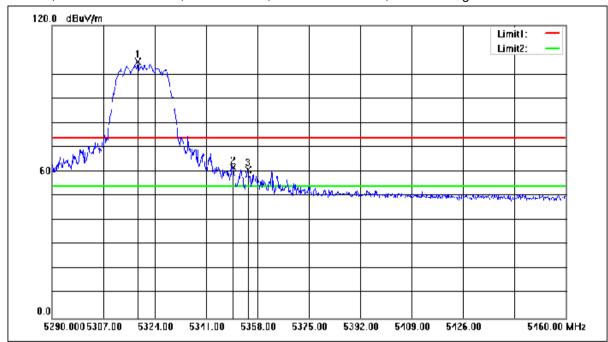
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5318.390	112.47	-7.27	105.20	74.00	31.20	peak
2	5350.000	68.77	-7.15	61.62	74.00	-12.38	peak
3	5354.940	67.95	-7.12	60.83	74.00	-13.17	peak



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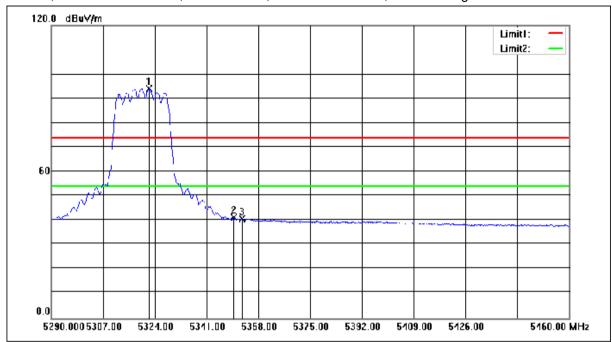
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)		Limit (dBuV/m)	Margin (dB)	Remark
1	5322.130	101.38	-7.25	94.13	54.00	40.13	AVG
2	5350.000	48.28	-7.15	41.13	54.00	-12.87	AVG
3	5352.560	47.94	-7.14	40.80	54.00	-13.20	AVG



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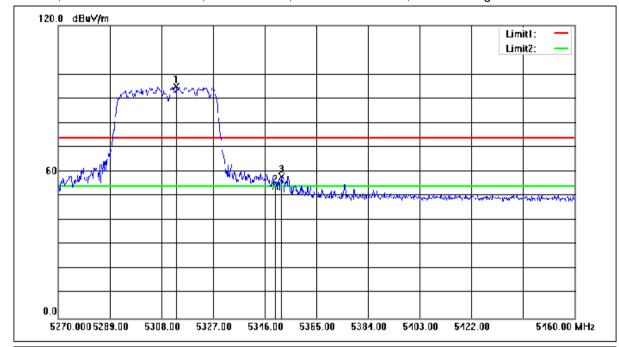
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# Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5313.510	102.29	-7.29	95.00	74.00	21.00	peak
2	5350.000	61.20	-7.15	54.05	74.00	-19.95	peak
3	5352.270	65.18	-7.14	58.04	74.00	-15.96	peak



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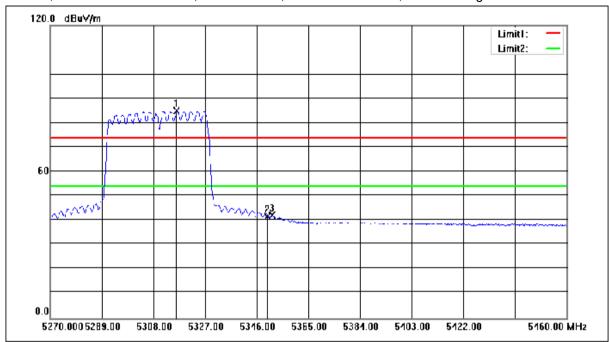
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5316.550	92.17	-7.27	84.90	54.00	30.90	AVG
2	5350.000	48.76	-7.15	41.61	54.00	-12.39	AVG
3	5351.700	49.32	-7.14	42.18	54.00	-11.82	AVG



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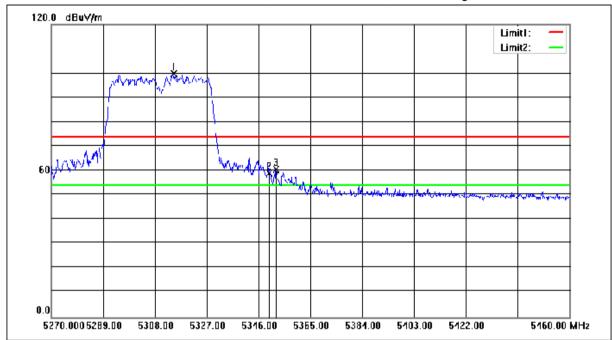
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency			Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5315.030	107.00	-7.29	99.71	74.00	25.71	peak
2	5350.000	66.11	-7.15	58.96	74.00	-15.04	peak
3	5352.460	67.45	-7.14	60.31	74.00	-13.69	peak



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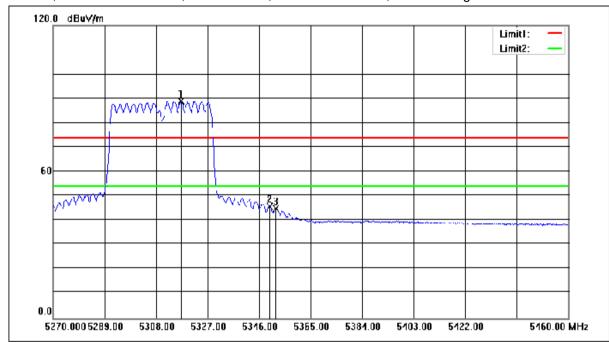
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5317.310	96.18	-7.27	88.91	54.00	34.91	AVG
2	5350.000	52.85	-7.15	45.70	54.00	-8.30	AVG
3	5352.270	51.98	-7.14	44.84	54.00	-9.16	AVG



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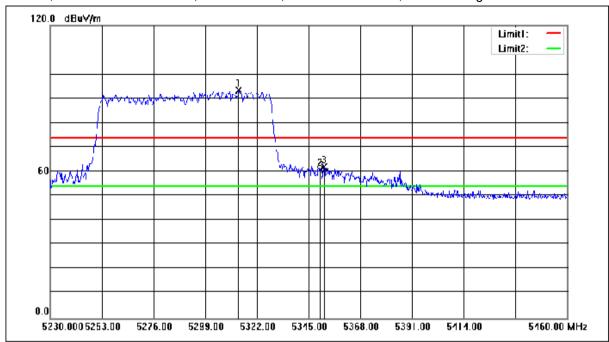
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5313.950	100.63	-7.29	93.34	74.00	19.34	peak
2	5350.000	67.78	-7.15	60.63	74.00	-13.37	peak
3	5351.900	69.06	-7.14	61.92	74.00	-12.08	peak



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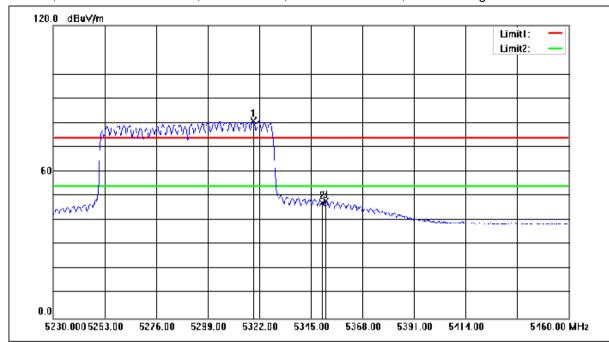
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5319.240	88.23	-7.27	80.96	54.00	26.96	AVG
2	5350.000	54.43	-7.15	47.28	54.00	-6.72	AVG
3	5351.440	54.96	-7.14	47.82	54.00	-6.18	AVG



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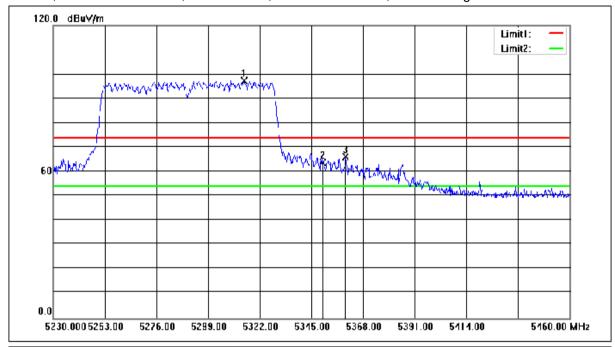
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5315.100	104.68	-7.29	97.39	74.00	23.39	peak
2	5350.000	70.82	-7.15	63.67	74.00	-10.33	peak
3	5360.180	73.16	-7.10	66.06	74.00	-7.94	peak



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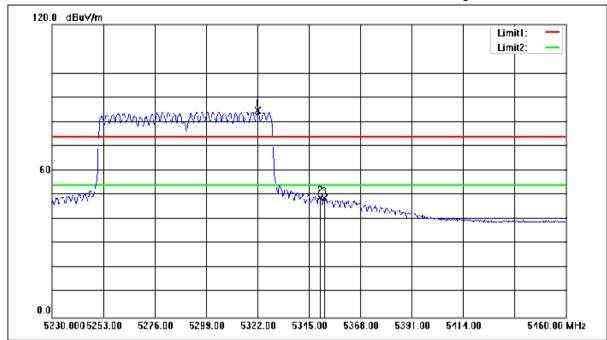
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5322.230	91.95	-7.25	84.70	54.00	30.70	AVG
2	5350.000	56.19	-7.15	49.04	54.00	-4.96	AVG
3	5351.900	55.82	-7.14	48.68	54.00	-5.32	AVG



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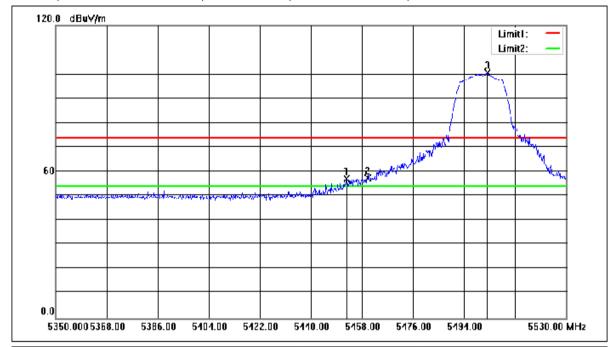
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5452.600	64.21	-6.96	57.25	74.00	-16.75	peak
2	5460.000	64.44	-6.95	57.49	74.00	-16.51	peak
3	5502.280	107.57	-6.96	100.61	74.00	26.61	peak



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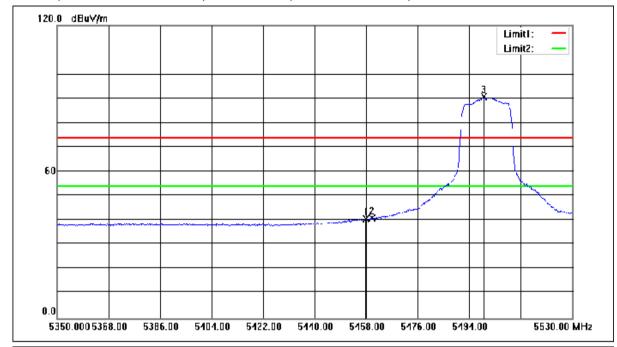
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Mode:d; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.820	47.67	-6.96	40.71	54.00	-13.29	AVG
2	5460.000	47.84	-6.95	40.89	54.00	-13.11	AVG
3	5499.220	97.63	-6.96	90.67	54.00	36.67	AVG



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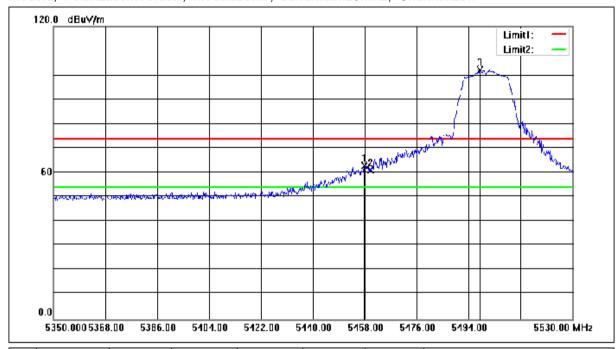
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Mode:d; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency			Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.820	69.96	-6.96	63.00	74.00	-11.00	peak
2	5460.000	67.99	-6.95	61.04	74.00	-12.96	peak
3	5497.960	109.18	-6.96	102.22	74.00	28.22	peak



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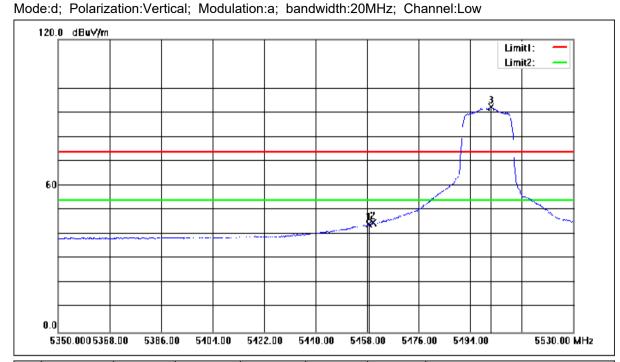
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No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.540	51.29	-6.96	44.33	54.00	-9.67	AVG
2	5460.000	51.77	-6.95	44.82	54.00	-9.18	AVG
3	5501.200	99.20	-6.96	92.24	54.00	38.24	AVG



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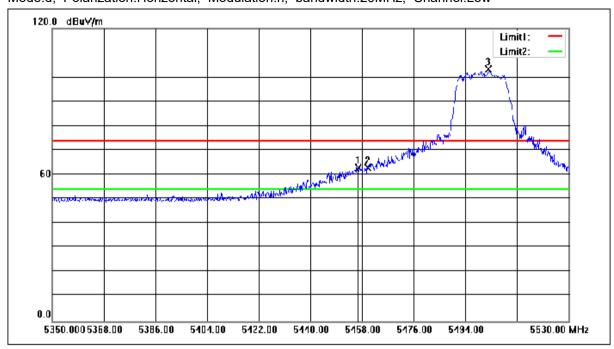
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5456.740	69.86	-6.96	62.90	74.00	-11.10	peak
2	5460.000	69.92	-6.95	62.97	74.00	-11.03	peak
3	5502.100	110.36	-6.96	103.40	74.00	29.40	peak



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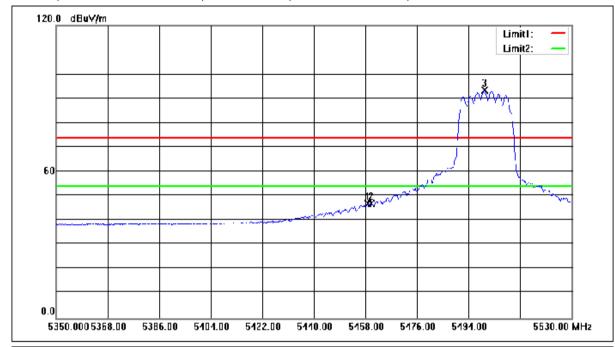
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.720	53.99	-6.96	47.03	54.00	-6.97	AVG
2	5460.000	53.99	-6.95	47.04	54.00	-6.96	AVG
3	5499.580	100.32	-6.96	93.36	54.00	39.36	AVG



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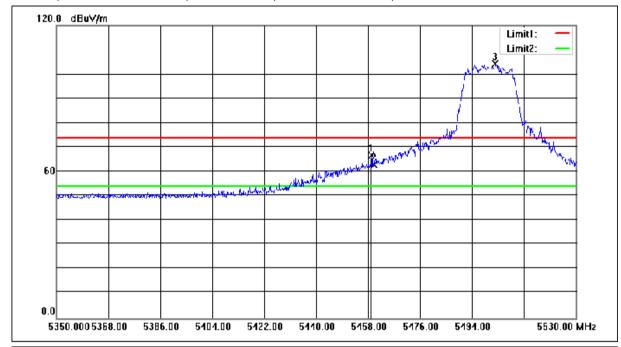
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5459.080	73.62	-6.96	66.66	74.00	-7.34	peak
2	5460.000	69.93	-6.95	62.98	74.00	-11.02	peak
3	5502.100	111.24	-6.96	104.28	74.00	30.28	peak



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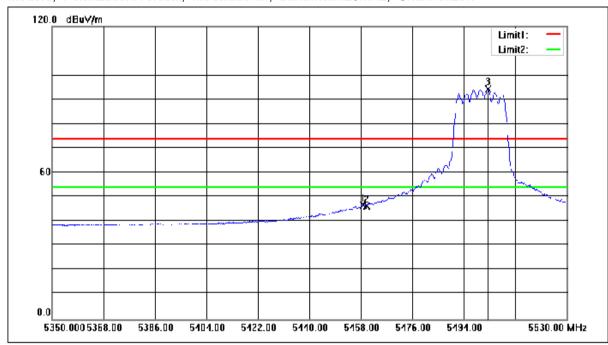
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.900	53.67	-6.96	46.71	54.00	-7.29	AVG
2	5460.000	53.32	-6.95	46.37	54.00	-7.63	AVG
3	5502.460	101.21	-6.96	94.25	54.00	40.25	AVG



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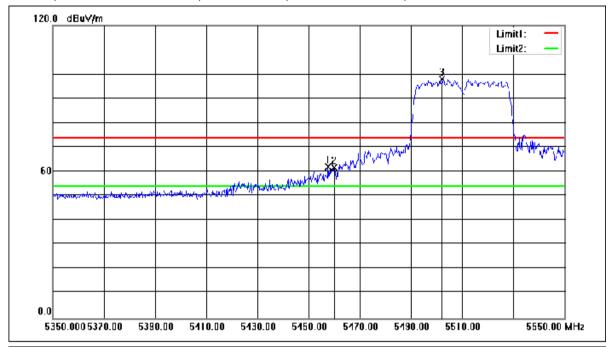
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.600	68.77	-6.96	61.81	74.00	-12.19	peak
2	5460.000	68.73	-6.95	61.78	74.00	-12.22	peak
3	5502.200	104.97	-6.96	98.01	74.00	24.01	peak



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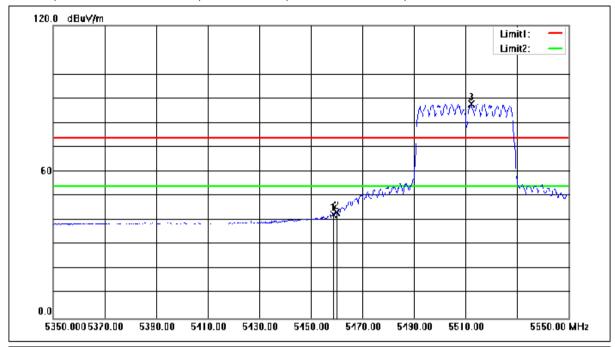
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Mode:d; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.600	49.48	-6.96	42.52	54.00	-11.48	AVG
2	5460.000	50.30	-6.95	43.35	54.00	-10.65	AVG
3	5512.200	94.76	-6.96	87.80	54.00	33.80	AVG



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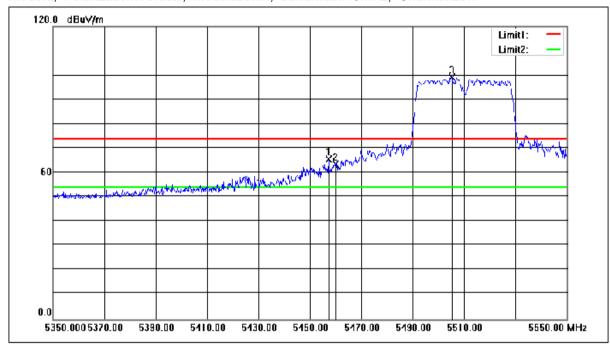
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



ĺ	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5457.200	72.39	-6.96	65.43	74.00	-8.57	peak
ĺ	2	5460.000	70.31	-6.95	63.36	74.00	-10.64	peak
	3	5505.200	106.14	-6.96	99.18	74.00	25.18	peak



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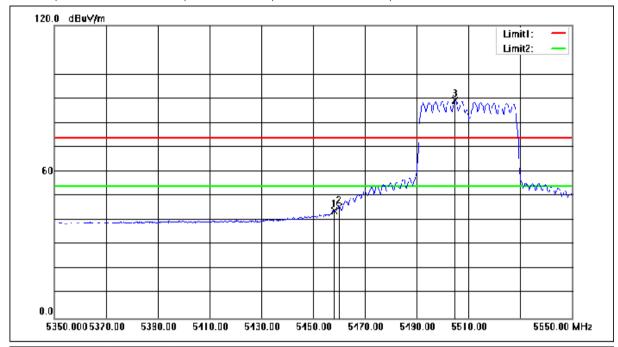
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Mode:d; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.000	50.94	-6.96	43.98	54.00	-10.02	AVG
2	5460.000	52.54	-6.95	45.59	54.00	-8.41	AVG
3	5504.800	96.30	-6.96	89.34	54.00	35.34	AVG



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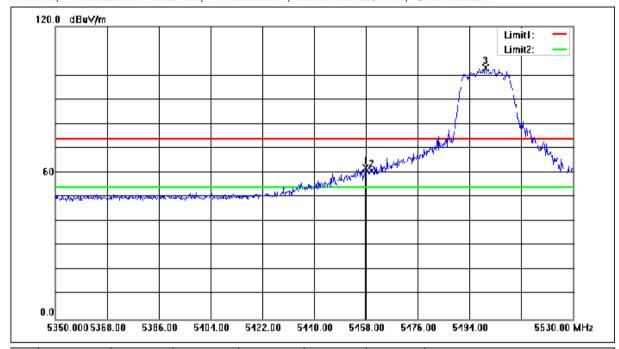
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.820	68.91	-6.96	61.95	74.00	-12.05	peak
2	5460.000	67.72	-6.95	60.77	74.00	-13.23	peak
3	5499.580	109.98	-6.96	103.02	74.00	29.02	peak



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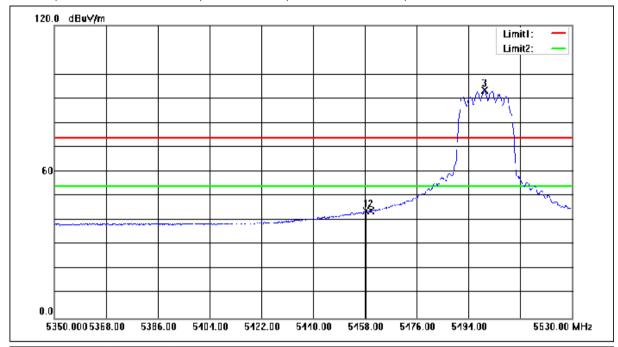
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.360	50.83	-6.96	43.87	54.00	-10.13	AVG
2	5460.000	50.89	-6.95	43.94	54.00	-10.06	AVG
3	5499.580	100.28	-6.96	93.32	54.00	39.32	AVG



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



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.720	71.77	-6.96	64.81	74.00	-9.19	peak
2	5460.000	69.02	-6.95	62.07	74.00	-11.93	peak
3	5500.120	110.48	-6.96	103.52	74.00	29.52	peak



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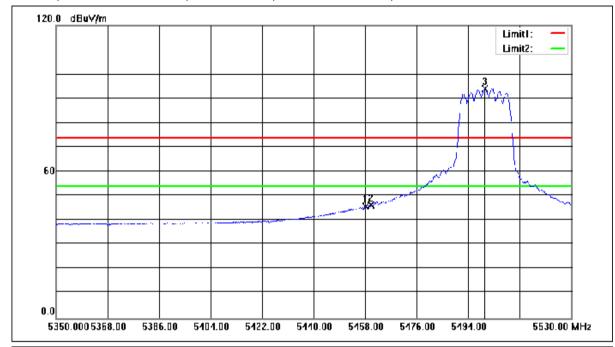
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.180	52.69	-6.96	45.73	54.00	-8.27	AVG
2	5460.000	53.40	-6.95	46.45	54.00	-7.55	AVG
3	5499.760	101.16	-6.96	94.20	54.00	40.20	AVG



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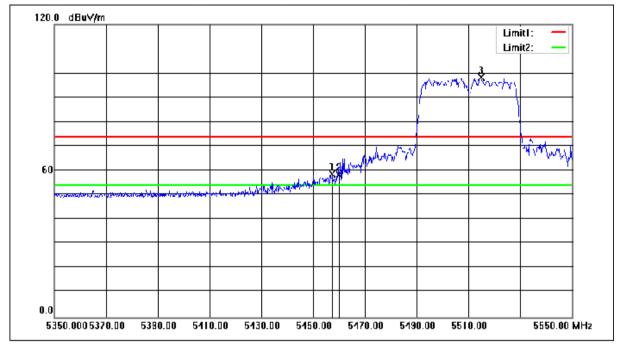
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.400	65.57	-6.96	58.61	74.00	-15.39	peak
2	5460.000	65.15	-6.95	58.20	74.00	-15.80	peak
3	5514.800	105.14	-6.96	98.18	74.00	24.18	peak



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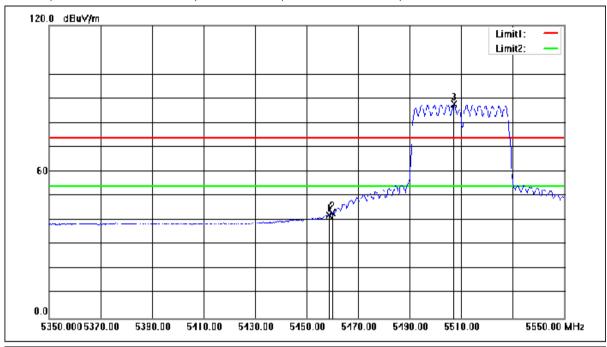
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5458.600	49.20	-6.96	42.24	54.00	-11.76	AVG
2	5460.000	50.03	-6.95	43.08	54.00	-10.92	AVG
3	5507.200	94.63	-6.96	87.67	54.00	33.67	AVG



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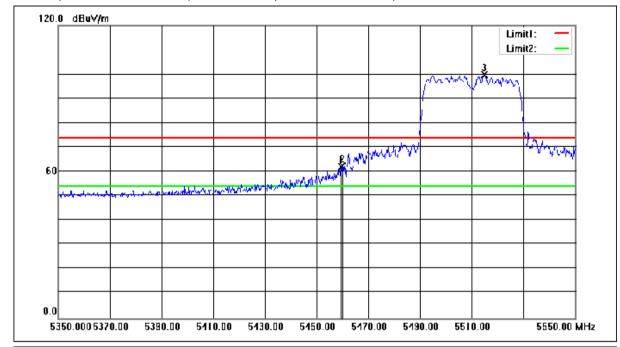
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5459.400	68.88	-6.96	61.92	74.00	-12.08	peak
2	5460.000	69.26	-6.95	62.31	74.00	-11.69	peak
3	5515.000	106.65	-6.96	99.69	74.00	25.69	peak



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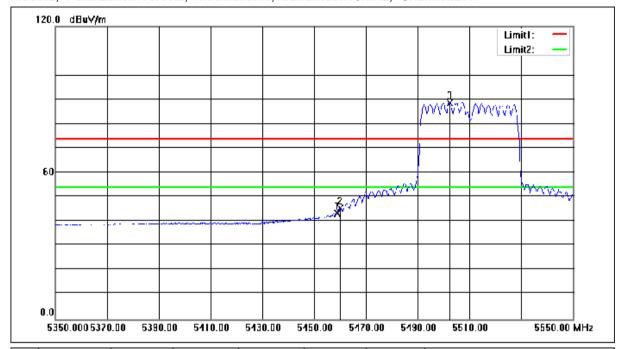
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5459.000	50.43	-6.96	43.47	54.00	-10.53	AVG
ĺ	2	5460.000	52.37	-6.95	45.42	54.00	-8.58	AVG
	3	5502.400	95.73	-6.96	88.77	54.00	34.77	AVG



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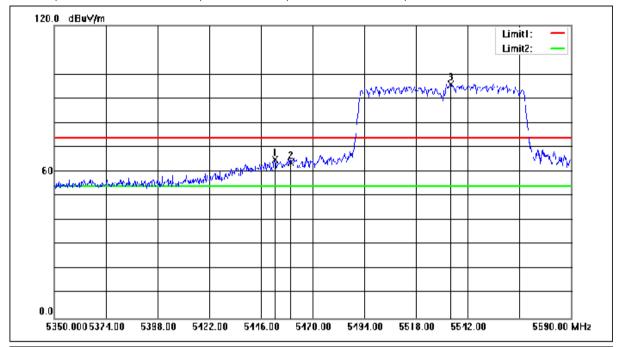
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5452.480	72.06	-6.96	65.10	74.00	-8.90	peak
2	5460.000	70.74	-6.95	63.79	74.00	-10.21	peak
3	5534.080	102.91	-6.97	95.94	74.00	21.94	peak



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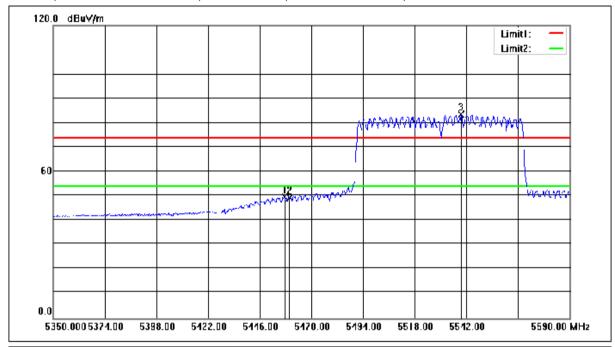
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Mode:d; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.760	56.69	-6.96	49.73	54.00	-4.27	AVG
2	5460.000	56.28	-6.95	49.33	54.00	-4.67	AVG
3	5539.600	90.61	-6.97	83.64	54.00	29.64	AVG



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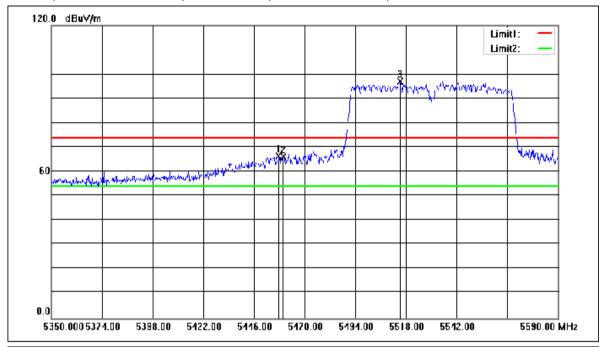
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5457.760	73.50	-6.96	66.54	74.00	-7.46	peak
2	5460.000	73.14	-6.95	66.19	74.00	-7.81	peak
3	5515.120	103.98	-6.96	97.02	74.00	23.02	peak



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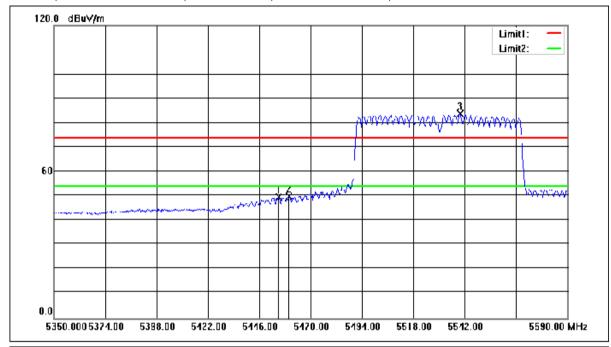
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Mode:d; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5455.120	56.50	-6.96	49.54	54.00	-4.46	AVG
2	5460.000	56.88	-6.95	49.93	54.00	-4.07	AVG
3	5539.840	90.85	-6.97	83.88	54.00	29.88	AVG



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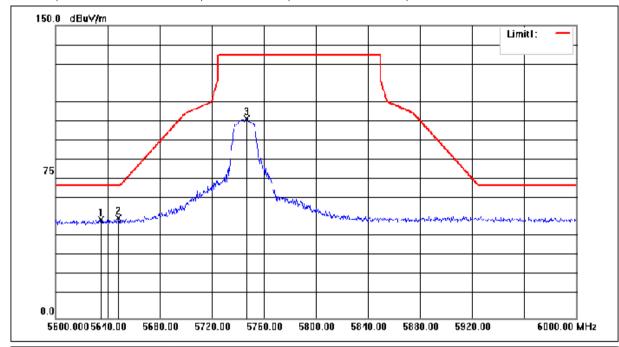
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5634.800	57.50	-6.88	50.62	68.20	-17.58	peak
2	5648.400	57.86	-6.85	51.01	68.20	-17.19	peak
3	5746.800	108.78	-6.60	102.18	135.00	-32.82	peak



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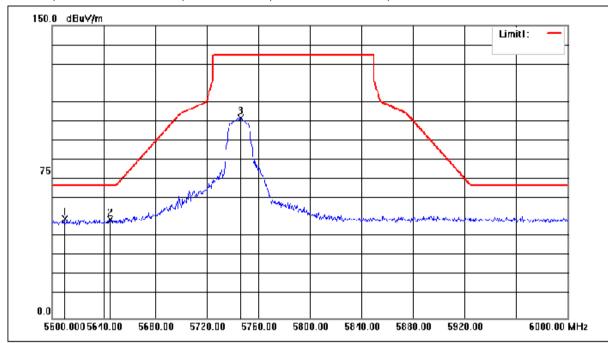
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5609.600	57.73	-6.95	50.78	68.20	-17.42	peak
2	5644.800	57.26	-6.85	50.41	68.20	-17.79	peak
3	5746.400	109.17	-6.60	102.57	135.00	-32.43	peak



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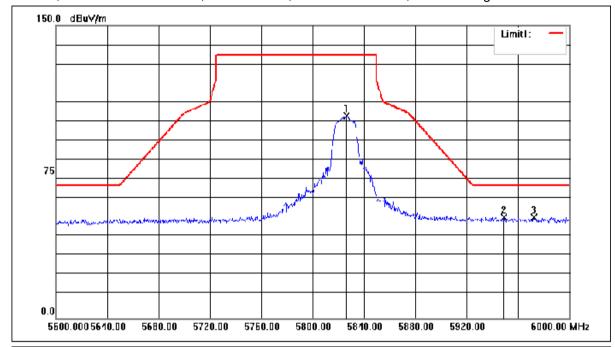
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Mode:e; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5826.400	109.83	-6.32	103.51	135.00	-31.49	peak
2	5949.200	57.30	-5.64	51.66	68.20	-16.54	peak
3	5972.400	57.04	-5.51	51.53	68.20	-16.67	peak



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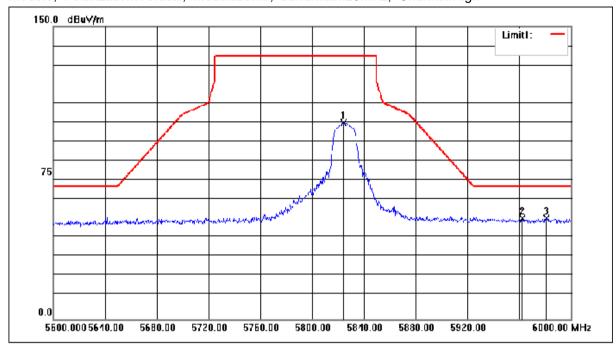
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Mode:e; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High



No.	Frequency (MHz)		Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5824.000	106.87	-6.32	100.55	135.00	-34.45	peak
2	5962.400	57.18	-5.57	51.61	68.20	-16.59	peak
3	5981.200	56.87	-5.47	51.40	68.20	-16.80	peak



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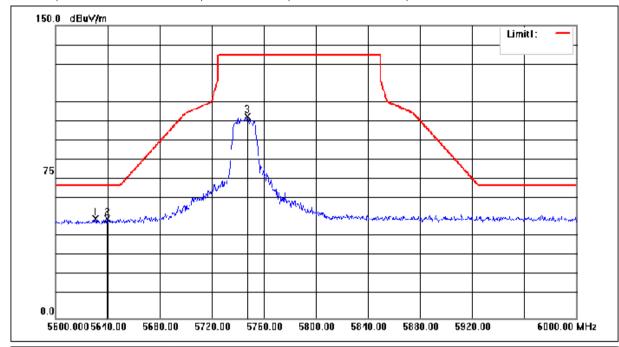
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5630.800	57.53	-6.89	50.64	68.20	-17.56	peak
2	5639.600	57.87	-6.87	51.00	68.20	-17.20	peak
3	5747.600	109.97	-6.60	103.37	135.00	-31.63	peak



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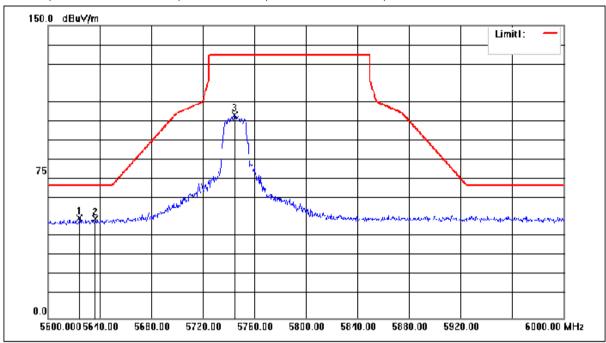
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5624.400	57.92	-6.90	51.02	68.20	-17.18	peak
2	5636.400	57.64	-6.88	50.76	68.20	-17.44	peak
3	5744.800	110.67	-6.60	104.07	135.00	-30.93	peak



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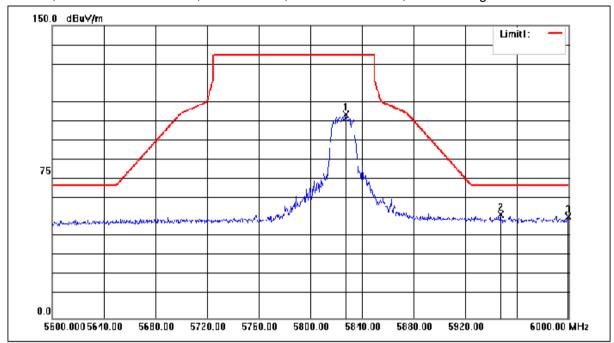
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High



No.	Frequency		Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5827.600	110.69	-6.31	104.38	135.00	-30.62	peak
2	5947.200	58.60	-5.65	52.95	68.20	-15.25	peak
3	5999.600	57.31	-5.36	51.95	68.20	-16.25	peak



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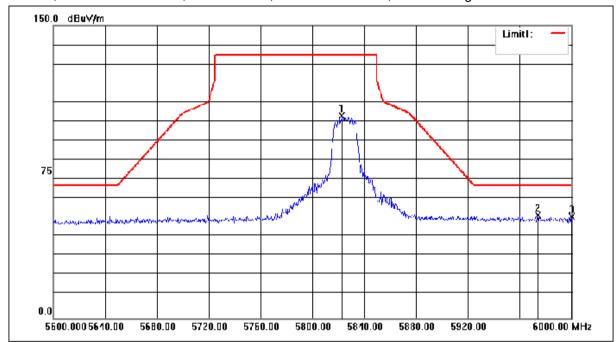
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



No	. Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5822.800	110.07	-6.33	103.74	135.00	-31.26	peak
2	5974.000	58.05	-5.50	52.55	68.20	-15.65	peak
3	6000.000	57.43	-5.36	52.07	68.20	-16.13	peak



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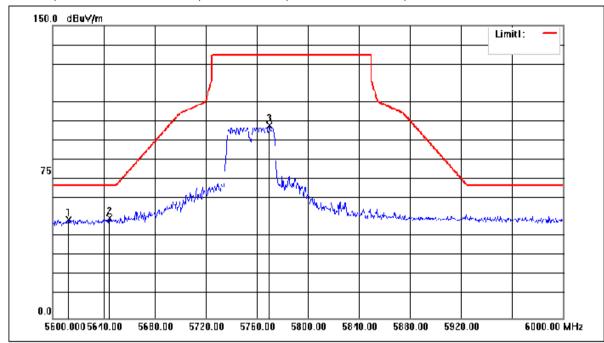
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5612.400	57.34	-6.94	50.40	68.20	-17.80	peak
2	5644.400	58.07	-6.85	51.22	68.20	-16.98	peak
3	5770.000	105.21	-6.54	98.67	135.00	-36.33	peak



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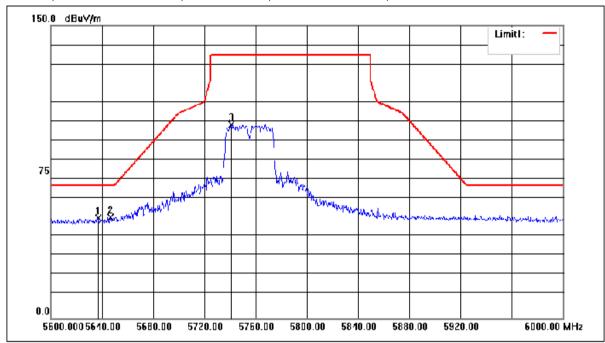
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5636.800	57.96	-6.87	51.09	68.20	-17.11	peak
2	5646.800	58.60	-6.85	51.75	68.20	-16.45	peak
3	5741.200	105.89	-6.61	99.28	135.00	-35.72	peak



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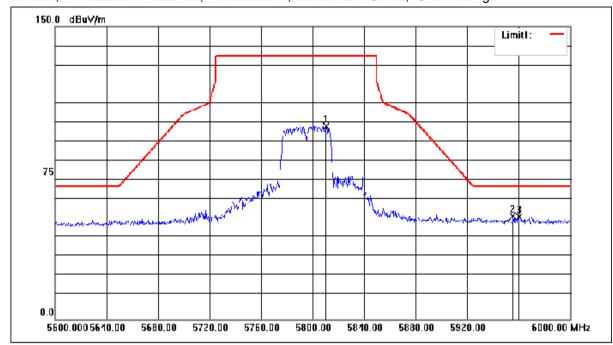
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Mode:e; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5810.400	105.28	-6.40	98.88	135.00	-36.12	peak
2	5955.600	58.48	-5.61	52.87	68.20	-15.33	peak
3	5960.000	57.73	-5.58	52.15	68.20	-16.05	peak



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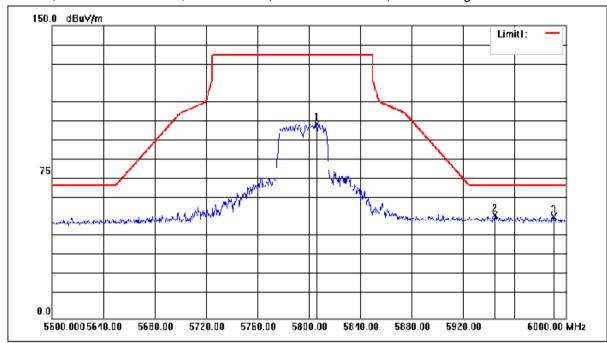
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Mode:e; Polarization:Vertical; Modulation:n; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5806.000	106.16	-6.43	99.73	135.00	-35.27	peak
2	5944.800	58.52	-5.67	52.85	68.20	-15.35	peak
3	5990.400	57.37	-5.41	51.96	68.20	-16.24	peak



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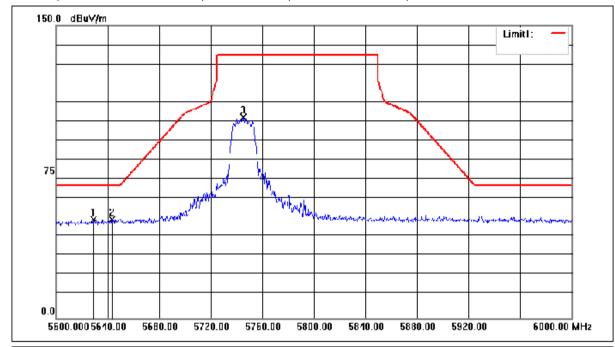
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5628.800	57.50	-6.90	50.60	68.20	-17.60	peak
2	5643.200	57.37	-6.86	50.51	68.20	-17.69	peak
3	5745.200	109.60	-6.60	103.00	135.00	-32.00	peak



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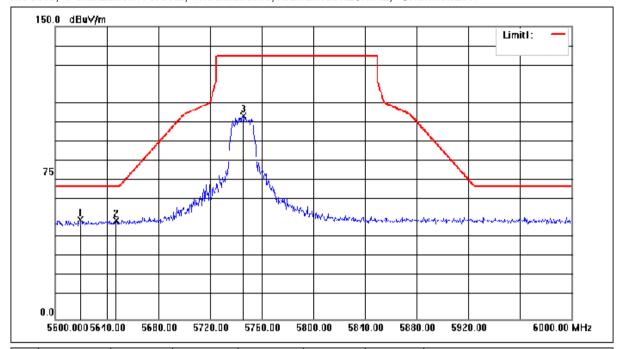
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5619.600	57.55	-6.92	50.63	68.20	-17.57	peak
2	5647.200	57.35	-6.85	50.50	68.20	-17.70	peak
3	5745.600	110.66	-6.60	104.06	135.00	-30.94	peak



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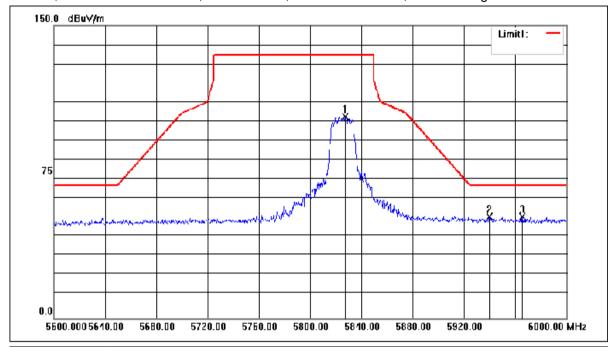
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5827.600	109.48	-6.31	103.17	135.00	-31.83	peak
2	5940.000	57.65	-5.69	51.96	68.20	-16.24	peak
3	5965.600	57.34	-5.55	51.79	68.20	-16.41	peak



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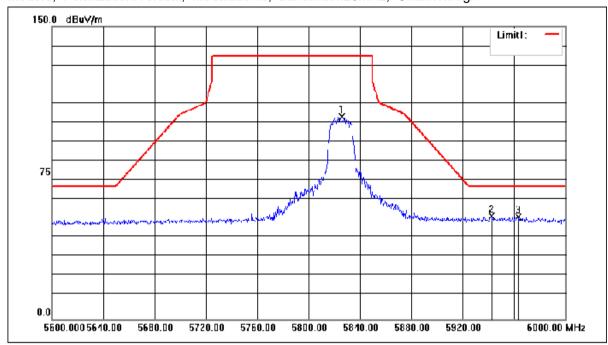
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



	No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
	1	5825.600	109.95	-6.32	103.63	135.00	-31.37	peak
	2	5942.800	58.22	-5.67	52.55	68.20	-15.65	peak
ſ	3	5963.600	57.88	-5.56	52.32	68.20	-15.88	peak



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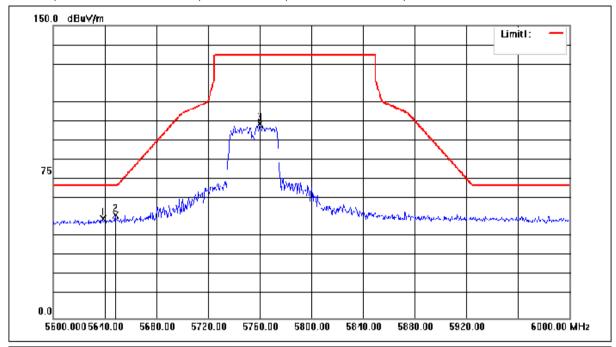
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5638.400	57.71	-6.87	50.84	68.20	-17.36	peak
2	5648.000	59.51	-6.85	52.66	68.20	-15.54	peak
3	5760.000	106.20	-6.56	99.64	135.00	-35.36	peak



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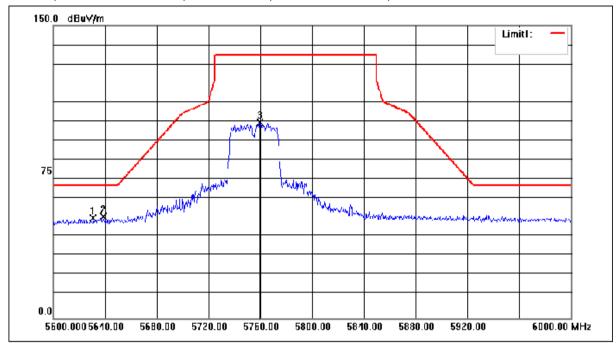
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5630.800	58.06	-6.89	51.17	68.20	-17.03	peak
2	5638.800	58.83	-6.87	51.96	68.20	-16.24	peak
3	5759.600	106.98	-6.56	100.42	135.00	-34.58	peak



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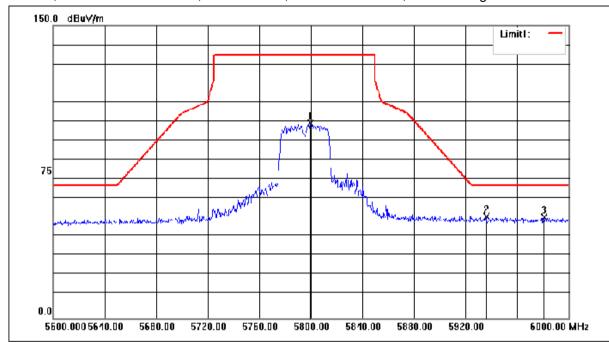
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5799.600	106.45	-6.46	99.99	135.00	-35.01	peak
2	5936.000	57.51	-5.71	51.80	68.20	-16.40	peak
3	5981.200	57.05	-5.47	51.58	68.20	-16.62	peak



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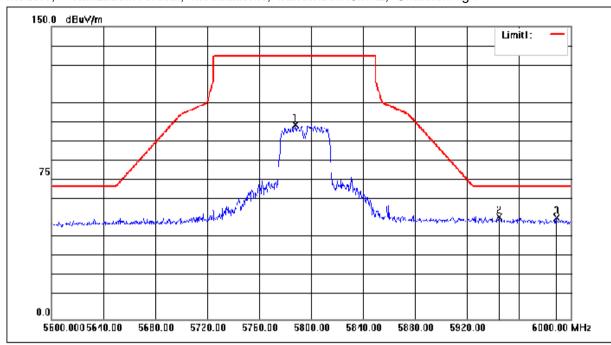
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Mode:e; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5788.000	106.04	-6.49	99.55	135.00	-35.45	peak
2	5944.800	57.90	-5.67	52.23	68.20	-15.97	peak
3	5988.800	57.54	-5.42	52.12	68.20	-16.08	peak



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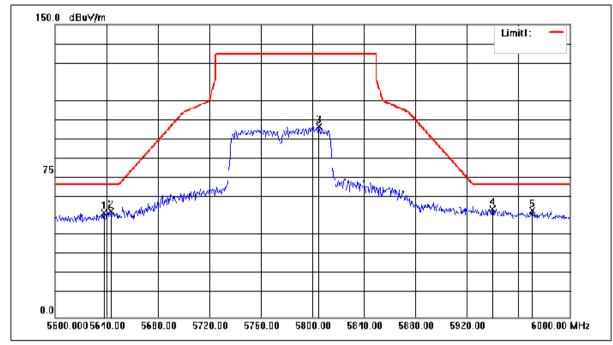
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Mode:e; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5638.000	60.45	-6.87	53.58	68.20	-14.62	peak
2	5643.600	60.95	-6.85	54.10	68.20	-14.10	peak
3	5805.200	104.15	-6.43	97.72	135.00	-37.28	peak
4	5940.000	61.17	-5.69	55.48	68.20	-12.72	peak
5	5970.800	59.99	-5.52	54.47	68.20	-13.73	peak



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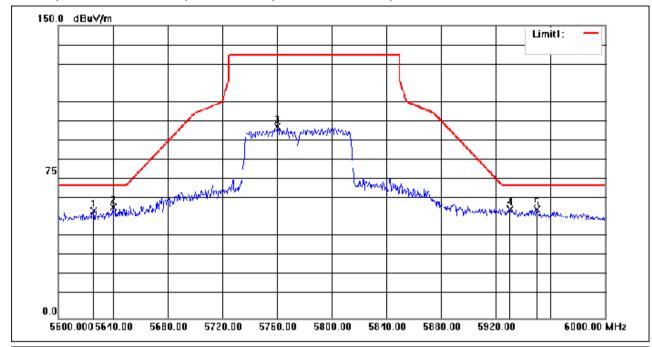
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### Mode:e; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:Low



No.	Frequency	Reading	Correction	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	5626.000	61.86	-6.90	54.96	68.20	-13.24	peak
2	5640.000	63.71	-6.87	56.84	68.20	-11.36	peak
3	5760.400	104.81	-6.56	98.25	135.00	-36.75	peak
4	5930.400	61.50	-5.74	55.76	68.20	-12.44	peak
5	5950.000	61.32	-5.64	55.68	68.20	-12.52	peak



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# 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.



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#### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Pretest these modes to find the worst case:

b: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.

c: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.

d: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.

e: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 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.

c: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.



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d: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

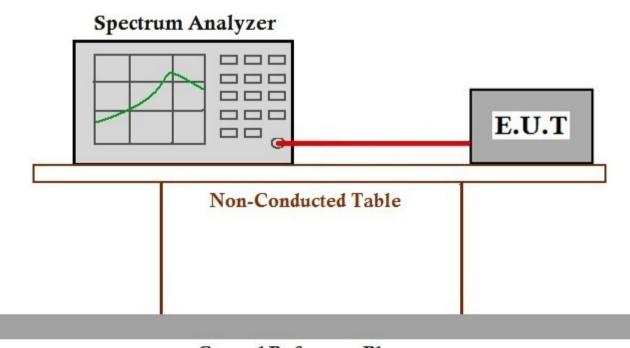
802.11ac(VHT80). Only the data of worst case is recorded in the report.

e: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.

#### 7.10.2 Test Setup Diagram



## Ground Reference Plane

#### 7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for SHCR220100002902



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# 8 Test Setup Photographs

Refer to the < Test Setup photos>.

# 9 EUT Constructional Details

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

- End of the Report -



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