

Report No.: KSCR220100003202 Page: 1 of 245

# TEST REPORT

Application No.:	KSCR2201000032AT
FCC ID:	2ADTD-DS-D5B75
IC:	20199-DSD5B75
Applicant:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Applicant:	No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Manufacturer:	Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Manufacturer:	No.555 Qianmo Road, Binjiang District Hangzhou 310052, China
Factory:	1.Hangzhou Hikvision Technology Co., Ltd.
	2.Hangzhou Hikvision Electronics Co., Ltd.
	3.Hangzhou Hikvision Digital Technology Co., Ltd.
Address of Easterny	4.Chongqing Hikvision technology Co.,LTD
Address of Factory:	1.No.700,Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang, 310052, China;
	2.No.299,Qiushi Road, Tonglu Economic Development Zone, Tonglu
	County, Hangzhou,Zhejiang,310052,China
	3.No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China
	4.NO.118.Haikang Road, Area C, Jianqiao Industrial Park, Dadukou
	District,Chongqing,401325,China.
Equipment Under Test (EU	•
EUT Name:	Interactive Tablets
Model No.:	Refer to page 2~3¤¤
¤	Please refer to section 2 of this report which indicates which model was
	actually tested and which were electrically identical.
Trade mark:	HIKVISION
Standard(s) :	47 CFR Part 15, Subpart E 15.407
	RSS-247 Issue 2, February 2017
Data of Designed	RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt:	2022-01-05
Date of Test:	2022-03-07 to 2022-03-10
Date of Issue:	2022-03-12
Test Result:	Pass*

\* In the configuration tested, the EUT complied with the standards specified above.

Tom fin

Eric Lin Laboratory Manager



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#### Model No:

DS-D5B75RB/A;DS-D5B75RB/B;DS-D5B75RB/C;DS-D5B75RD/A;DS-D5B75RD/B;DS-D5B75RD/C;DS-D5B75RO/A;DS-D5B75RO/B;DS-D5B75RO/C;DS-D5B75RG/A;DS-D5B75RG/B;DS-D5B75RG/C;DS-D5B75RM/A;DS-D5B75RM/B;DS-D5B75RM/C;DS-D5B75JRX;DS-D5B75JRY;DS-D5B75JRZ;DS-D5B75NYX;DS-D5B75NYY;DS-D5B75NYZ;DS-D5B75ZFX;DS-D5B75ZFY;DS-D5B75ZFZ;DS-D5B75GAX;DS-D5B75GAY;DS-D5B75GAZ;DS-D5B75DCX;DS-D5B75DCY;DS-D5B75DCZ;DS-D5B75RB/ZC;DS-D5B75RD/ZC;DS-D5B75XX/ZC;DS-D5B75RD/AO;DS-D5B75RD/AP;DS-D5B75RB/AO;DS-D5B75RB/AP:DS-D5B75RD/BO:DS-D5B75RD/BP:DS-D5B75RB/BO:DS-D5B75RB/BP:DS-D5B75MD/AO;DS-D5B75MD/AP;DS-D5B75MB/AO;DS-D5B75MB/AP;DS-D5B75MD/BO;DS-D5B75MD/BP;DS-D5B75MB/BO;DS-D5B75MB/BP;DS-D5B75CD/AO;DS-D5B75CD/AP;DS-D5B75CB/AO;DS-D5B75CB/AP;DS-D5B75CD/BO;DS-D5B75CD/BP;DS-D5B75CB/BO;DS-D5B75CB/BP;DS-D5B75FD/AO;DS-D5B75FD/AP;DS-D5B75FB/AO;DS-D5B75FB/AP;DS-D5B75FD/A;DS-D5B75FB/A;DS-D5B75FD/BO:DS-D5B75FD/BP:DS-D5B75FB/BO:DS-D5B75FB/BP:DS-D5B75FD/B:DS-D5B75FB/B:DS-D5C75RB/A;DS-D5C75RB/B;DS-D5C75RB/C;DS-D5C75RD/A;DS-D5C75RD/B;DS-D5C75RD/C;DS-D5C75RO/A;DS-D5C75RO/B;DS-D5C75RO/C;DS-D5C75RG/A;DS-D5C75RG/B;DS-D5C75RG/C;DS-D5C75RM/A;DS-D5C75RM/B;DS-D5C75RM/C;DS-D5C75JRX;DS-D5C75JRY;DS-D5C75JRZ;DS-D5C75NYX;DS-D5C75NYY;DS-D5C75NYZ;DS-D5C75ZFX;DS-D5C75ZFZ;DS-D5C75GAX;DS-D5C75GAY;DS-D5C75GAZ;DS-D5C75DCX;DS-D5C75DCY;DS-D5C75DCZ;DS-D5C75RB/ZC;DS-D5C75RD/ZC;DS-D5C75XX/ZC;DS-D5C75RD/AO;DS-D5C75RD/AP;DS-D5C75RB/AO;DS-D5C75RB/AP;DS-D5C75RD/BO;DS-D5C75RD/BP;DS-D5C75RB/BO;DS-D5C75RB/BP;DS-D5C75MD/AO;DS-D5C75MD/AP;DS-D5C75MB/AO;DS-D5C75MB/AP;DS-D5C75MD/BO;DS-D5C75MD/BP;DS-D5C75MB/BO;DS-D5C75MB/BP;DS-D5C75CD/AO;DS-D5C75CD/AP;DS-D5C75CB/AO;DS-D5C75CB/AP;DS-D5C75CD/BO;DS-D5C75CD/BP;DS-D5C75CB/BO;DS-D5C75CB/BP;DS-D5C75FD/AO;DS-D5C75FD/AP;DS-D5C75FB/AO;DS-D5C75FB/AP;DS-D5C75FD/A;DS-D5C75FB/A;DS-D5C75FD/B0;DS-D5C75FD/BP;DS-D5C75FB/B0;DS-D5C75FB/BP;DS-D5C75FD/B;DS-D5C75FB/B;DS-D5D75RB/A;DS-D5D75RB/B;DS-D5D75RB/C;DS-D5D75RD/A;DS-D5D75RD/B;DS-D5D75RD/C;DS-D5D75RO/A;DS-D5D75RO/B;DS-D5D75RO/C;DS-D5D75RG/A;DS-D5D75RG/B;DS-D5D75RG/C;DS-D5D75RM/A;DS-D5D75RM/B;DS-D5D75RM/C;DS-D5D75JRX;DS-D5D75JRY:DS-D5D75JRZ:DS-D5D75NYX:DS-D5D75NYY:DS-D5D75NYZ;DS-D5D75ZFX:DS-D5D75ZFY;DS-D5D75ZFZ;DS-D5D75GAX;DS-D5D75GAY;DS-D5D75GAZ;DS-D5D75DCX;DS-D5D75DCY;DS-D5D75DCZ;DS-D5D75RB/ZC;DS-D5D75RD/ZC;DS-D5D75XX/ZC;DS-D5D75RD/AO;DS-D5D75RD/AP;DS-D5D75RB/AO;DS-D5D75RB/AP;DS-D5D75RD/BO;DS-D5D75RD/BP;DS-D5D75RB/BO;DS-D5D75RB/BP;DS-D5D75MD/AO;DS-D5D75MD/AP;DS-D5D75MB/AO;DS-D5D75MB/AP;DS-D5D75MD/BO;DS-D5D75MD/BP;DS-D5D75MB/BO;DS-D5D75MB/BP;DS-D5D75CD/AO;DS-D5D75CD/AP;DS-D5D75CB/AO;DS-D5D75CB/AP;DS-D5D75CD/BO;DS-D5D75CD/BP;DS-D5D75CB/BO;DS-D5D75CB/BP;DS-D5D75FD/AO;DS-D5D75FD/AP;DS-D5D75FB/AO;DS-D5D75FB/AP;DS-D5D75FD/A;DS-D5D75FB/A;DS-D5D75FD/BO;DS-D5D75FD/BP;DS-D5D75FB/BO;DS-D5D75FB/BP;DS-D5D75FD/B;DS-D5D75FB/B;DS-D5F75RB/A;DS-D5F75RB/B;DS-D5F75RB/C;DS-D5F75RD/A;DS-D5F75RD/B;DS-D5F75RD/C;DS-D5F75RO/A;DS-D5F75RO/B;DS-D5F75RO/C;DS-D5F75RG/A;DS-D5F75RG/B;DS-D5F75RG/C;DS-D5F75RM/A;DS-D5F75RM/B;DS-D5F75RM/C;DS-D5F75JRX;DS-D5F75JRY;DS-D5F75JRZ;DS-D5F75NYX;DS-D5F75NYY;DS-D5F75NYZ;DS-D5F75ZFX;DS-D5F75ZFY;DS-D5F75ZFZ;DS-D5F75GAX;DS-D5F75GAY;DS-D5F75GAZ;DS-D5F75DCX;DS-D5F75DCY;DS-D5F75DCZ;DS-D5F75RB/ZC;DS-D5F75RD/ZC;DS-D5F75XX/ZC;DS-D5F75RD/AO;DS-D5F75RD/AP;DS-D5F75RB/AO;DS-D5F75RB/AP;DS-D5F75RD/BO;DS-D5F75RD/BP;DS-D5F75RB/BO;DS-D5F75RB/BP;DS-D5F75MD/AO;DS-D5F75MD/AP;DS-D5F75MB/AO;DS-D5F75MB/AP;DS-D5F75MD/BO;DS-D5F75MD/BP;DS-D5F75MB/BO;DS-D5F75MB/BP;DS-D5F75CD/AO;DS-D5F75CD/AP;DS-D5F75CB/AO;DS-D5F75CB/AP;DS-D5F75CD/BO;DS-D5F75CD/BP;DS-D5F75CB/BO;DS-D5F75CB/BP;DS-D5F75FD/AO;DS-D5F75FD/AP;DS-D5F75FB/AO;DS-D5F75FB/AP;DS-D5F75FD/A;DS-D5F75FB/A;DS-D5F75FD/BO;DS-D5F75FD/BP;DS-D5F75FB/BO;DS-D5F75FB/BP;DS-D5F75FD/B;DS-D5F75FB/B;DS-D5A75RB/A;DS-D5A75RB/B;DS-D5A75RB/C;DS-D5A75RD/A;DS-D5A75RD/B;DS-D5A75RD/C;DS-D5A75RO/A;DS-D5A75RO/B;DS-D5A75RO/C;DS-D5A75RG/A;DS-D5A75RG/B;DS-D5A75RG/C;DS-D5A75RM/A;DS-D5A75RM/B;DS-D5A75RM/C;DS-D5A75JRX;DS-D5A75JRY;DS-D5A75JRZ;DS-D5A75NYX;DS-D5A75NYY;DS-D5A75NYZ;DS-D5A75ZFX;DS-D5A75ZFY;DS-D5A75ZFZ;DS-D5A75GAX;DS-D5A75GAY;DS-D5A75GAZ;DS-D5A75DCX;DS-D5A75DCY;DS-



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D5A75DCZ;DS-D5A75RB/ZC;DS-D5A75RD/ZC;DS-D5A75XX/ZC;DS-D5A75RD/AO;DS-D5A75RD/AP;DS-D5A75RB/AO;DS-D5A75RB/AP;DS-D5A75RD/BO;DS-D5A75RD/BO;DS-D5A75RB/BP;DS-D5A75MD/AO;DS-D5A75MD/AP;DS-D5A75MD/AO;DS-D5A75MD/AP;DS-D5A75MD/AP;DS-D5A75MD/BO;DS-D5A75MD/BO;DS-D5A75MD/BO;DS-D5A75MD/BO;DS-D5A75MD/BP;DS-D5A75CD/AO;DS-D5A75CD/AO;DS-D5A75CD/AP;DS-D5A75CB/AP;DS-D5A75CD/BO;DS-D5A75CD/BP;DS-D5A75CB/BP;DS-D5A75CB/BP;DS-D5A75FD/AO;DS-D5A75FD/AP;DS-D5A75FB/AO;DS-D5A75FB/AP;DS-D5A75FD/A;DS-D5A75FD/BP;DS-D5A75FB/BP;DS-D5A75FD/BP;DS-D5A75FD/BP;DS-D5A75FB/BP;DS-D5A75FD/B;DS-D5A75FD/B;DS-D5A75FB/BP;DS-D5A75FB/BP;DS-D5A75FD/B;DS-D5A75FB/B;DS-D5A75FD/B;DS-D5A75FD/B;DS-D5A75FB/B;DS-D5X75XX/X;DS-D5XXXXX/XXX;DS-D5XXXXX/XXXX("X" stands for A-Z, 0-9 or blank)

For IC Model No.:

DS-D5B75RB/A, DS-D5B75RB/B

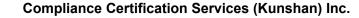


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	Revision Record					
Version	Description	Date	Remark			
00	Original	2022-03-12	1			

Authorized for issue by:		
	Tommie Tang	
	Tommie.Tang / Project Engineer	
	Eni fri	
	Eric Lin / Reviewer	



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# 2 Test Summary

Radio Spectrum Technical Requirement						
FCC Requirement	IC Requirement	Method	Result			
47 CFR Part 15, Subpart C 15.203	RSS-Gen Clause 6.8	N/A	Pass			
47 CFR Part 15, Subpart E 15.407 (c)	RSS-247 Section 6.4(a)	N/A	Pass			
	FCC Requirement 47 CFR Part 15, Subpart C 15.203 47 CFR Part 15,	FCC RequirementIC Requirement47 CFR Part 15, Subpart C 15.203RSS-Gen Clause 6.847 CFR Part 15,RSS-247 Section	FCC RequirementIC RequirementMethod47 CFR Part 15, Subpart C 15.203RSS-Gen Clause 6.8N/A47 CFR Part 15, 47 CFR Part 15,RSS-247 SectionN/A			

N/A: Not applicable

Radio Spectrum Matt	Radio Spectrum Matter Part				
ltem	FCC Requirement	IC Requirement	Method	Result	
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.207 & Subpart E 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 E 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 E 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 E 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 E 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 & Subpart E 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 & Subpart E 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 E 15.407 (g)	RSS-Gen Section 6.11	ANSI C63.10 (2013) Section 6.8& RSS-Gen Section 6.11	Pass	

#### **Declaration of EUT Family Grouping:**

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only the model DS-D5B75RB/A was tested since their differences were the model number and appearance.



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# 4 General Information

# 4.1 Details of E.U.T.

Power supply:	AC100-240V 50/60Hz
Test voltage:	AC 120V/60Hz
S/N:	G91585824
Firmware Version:	V2.1.0 build210528

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels		
	UNII Band I	802.11a/n(HT20)/ac(HT20)	5180-5240	4		
		802.11n(HT40)/ac(HT40)	5190-5230	2		
		802.11ac(HT80)	5210	1		
	UNII Band III	802.11a/n(HT20)/ac(HT20)	5745-5825	5		
		802.11n(HT40)/ac(HT40)	5755-5795	2		
		802.11ac(HT80)	5775	1		
Modulation Type:	802.11a: OFDM	(64QAM, 16QAM, QPSK, BPSK	)			
	802.11n: OFDM	(BPSK, QPSK, 16QAM, 64QAM	)			
	802.11ac: OFDM	I (BPSK, QPSK, 16QAM, 64QAM	M, 256QAM)			
Date Rate:	802.11a:6/9/12/1	8/24/36/48/54Mbps				
	802.11n:MCS0-M	1CS7				
	802.11ac:VHT M	CS0-MCS7				
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz					
	802.11n(HT40)/ac(HT40): 40MHz					
	802.11ac(HT80): 80MHz					
Antenna Gain:	For Module MT7668					
	Ant1: 2.30dBi (Provided by the manufacturer)					
	Ant2: 0.78dBi (Provided by the manufacturer)					
	Directional gain:4.62dBi					
	For Module RTL	8812CU				
	Ant1: 3.06dBi (P	rovided by the manufacturer)				
	Ant2: 3.60dBi (P	rovided by the manufacturer)				
	Directional gain:	6.35dBi				
Antenna Type:	For Module MT7	668				
	Antenna 1:PCB	Antenna 1:PCB Antenna				
	Antenna 2: PCB	Antenna				
	For Module RTL	8812CU				
	Antenna 1:PCB	Antenna				
	Antenna 2: PCB	Antenna				



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# 4.2 Power level setting using in test:

## MT7668

Channel	802.11a		802.11r	n(HT20)	802.11ac	:(VHT20)
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	10	10	10	10	10	10
40	10	10	10	10	10	10
48	10	10	10	10	10	10
149	10	10	10	10	10	10
157	10	10	10	10	10	10
165	10	10	10	10	10	10
Channel	802.11n(HT40)		802.11ac(VHT40)			
Channel	Ant 1	Ant 2	Ant 1	Ant 2		
38	10	10	10	10		
46	10	10	10	10		
151	10	10	10	10		
159	10	10	10	10	]	
Channel	802.11ac	c(VHT80)				
Challinei	Ant 1	Ant 2				
42	10	10				
155	10	10				



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Channel	802.11a		802.11r	n(HT20)	802.11ac	c(VHT20)
Channel	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
36	Default	Default	Default	Default	Default	Default
40	Default	Default	Default	Default	Default	Default
48	Default	Default	Default	Default	Default	Default
149	Default	Default	Default	Default	Default	Default
157	Default	Default	Default	Default	Default	Default
165	Default	Default	Default	Default	Default	Default
Channel	802.11n(HT40)		802.11ac(VHT40)			
	Ant 1	Ant 2	Ant 1	Ant 2		
38	Default	Default	Default	Default		
46	Default	Default	Default	Default		
151	Default	Default	Default	Default		
159	Default	Default	Default	Default		
Channel	802.11a	c(VHT80)			-	
	Ant 1	Ant 2				
42	Default	Default				
155	Default	Default				

#### **RTL8812CU**

# 4.3 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	ThinkPad X100e	/
SecureCRT	VanDyke	V 6.2.0	/
Serial port adapter plate	1	Test Plate 3	/

# 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
0 DF	RF Radiated Power	5.2dB (Below 1GHz)
8	RF Raulaled Power	5.9dB (Above 1GHz)



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		4.2dB (Below 30MHz)			
9	Dedicted Spurious Emission Test	4.5dB (30MHz-1GHz)			
9	Radiated Spurious Emission Test	5.1dB (1GHz-18GHz)			
		5.4dB (Above 18GHz)			
10	Temperature Test	1°C			
11	Humidity Test	3%			
12	Supply Voltages	1.5%			
13	Time	3%			

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



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# 4.5 Test Location

All tests were performed at:

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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#### **Equipment List** 5

Item	Equipment	Manufacturer	Model	Serial Number	Cal Date	Cal. Due Date
Con	ducted Emission at Mains Terminals (150	kHz-30MHz)				
1	EMI Test Receive	R&S	ESCI	100781	01/22/2022	01/21/2023
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	01/22/2022	01/21/2023
5	CE test Cable	Thermax	/	14	10/16/2021	10/15/2022
6	Test Software	Faratronic	EZ-EMC	CCS-03A1	N.C.R	N.C.R
RF	Conducted Test					
1	Spectrum Analyzer	Agilent	E4446A	MY44020154	04/16/2021	04/15/2022
2	Spectrum Analyzer	Keysight	N9020A	MY55370209	10/11/2021	10/10/2022
4	Signal Generator	Agilent	N5182A	MY50142015	08/27/2021	08/26/2022
5	Spectrum Analyzer	Keysight	N9030B	MY61330164	01/22/2022	01/21/2023
6	Vector Signal Generator	R&S	SMW200A	110074	10/12/2021	10/11/2022
7	Radio Communication Test Station	Anritsu	MT8000A	6262012849	09/23/2021	09/22/2022
8	Radio Communication Analyzer	Anritsu	MT8821C	6201692222	09/23/2021	09/22/2022
9	Universal Radio Communication Tester	R&S	CMW500	159275	10/12/2021	10/11/2022
10	Universal Radio Communication Tester	R&S	CMW500	167239	04/16/2021	04/15/2022
11	Power Meter	Anritsu	ML2495A	1445010	04/15/2021	04/14/2022
12	Switcher	CCSRF	FY562	KUS2001M001-3	10/12/2021	10/11/2022
13	AC Power Source	EXTECH	6605	1570106	N.C.R	N.C.R
14	DC Power Supply	Aglient	E3632A	MY50340053	N.C.R	N.C.R
15	6dB Attenuator	Mini-Circuits	NAT-6-2W	15542-1	N.C.R	N.C.R
16	Power Divider	AISI	IOWOPE2068	PE2068	N.C.R	N.C.R
17	Filter	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
18	Conducted Test Cable	1	RF01-RF04	1	04/15/2021	04/14/2022
19	Software	BST	TST-PASS	N/A	N/A	N/A
20	Temp. / Humidity Chamber	TERCHY	MHK-120AK	X30109	04/15/2021	04/14/2022
21	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	Com-Power	AL-130R	10160008	04/13/2021	04/12/2023
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	02/20/2022	02/19/2023
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 $\sim$ 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



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15	Filter (5150 MHz $\sim$ 5350 MHz $)$	MICRO-TRONICS	BRC50703-01	2	N.C.R	N.C.R
16	Filter (885 MHz~915 MHz)	MICRO-TRONICS	BRM14698	1	N.C.R	N.C.R
17	Filter (815 MHz~860 MHz)	MICRO-TRONICS	BRM14697	1	N.C.R	N.C.R
18	Filter (1745 MHz $\sim$ 1910 MHz)	MICRO-TRONICS	BRM14700	1	N.C.R	N.C.R
19	Filter (1922 MHz $\sim$ 1977 MHz)	MICRO-TRONICS	BRM50715	1	N.C.R	N.C.R
20	Filter (2550 MHz)	MICRO-TRONICS	HPM13362	5	N.C.R	N.C.R
21	Filter (1532 MHz $\sim$ 1845 MHz)	MICRO-TRONICS	BRM50713	1	N.C.R	N.C.R
22	Filter (2.4GHz)	MICRO-TRONICS	BRM50701	5	N.C.R	N.C.R
23	RE test cable	1	RE01-RE04	1	04/15/2021	04/14/2022
24	Software	Faratronic	EZ_EMC	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:

For Module MT7668:

The antenna 1 and antenna 2 is PCB Antenna, and no consideration of replacement. The best case gain of the antenna 1 is 2.30dBi and antenna 2 is 0.78dBi.

For Module RTL8812CU:

The antenna 1 and antenna 2 is PCB Antenna, and no consideration of replacement. The best case gain of the antenna 1 is 3.06dBi and antenna 2 is 3.60dBi.

Antenna location: Refer to Appendix (Internal Photos)



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# 6.2 Transmission in the Absence of Data

#### 6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 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 MT7668 and RTL8812CU 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 Requirement47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(6)Test Method:ANSI C63.10 (2013) Section 6.2Limit:Limit:

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



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#### 7.1.1 E.U.T. Operation

1.1	E.U.T. Operation	
	Operating Enviro	ment:
	Temperature:	22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar
	Pretest these modes to find the worst case:	b:Module MT7668 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(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.
		c:Module MT7668 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(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.
		h:Module RTL8812CU 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. i:Module RTL8812CU 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 802.11a; data rate @ MCS0 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 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11a; 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); d
	The worst case for final test:	802.11ac(VHT80). Only the data of worst case is recorded in the report. b:Module MT7668 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. h:Module RTL8812CU 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 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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(VHT40); 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(VHT40); 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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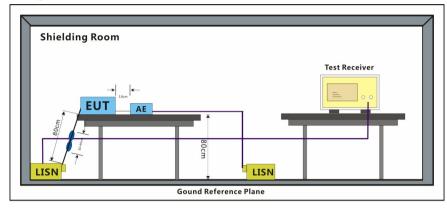
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802.11ac(VHT80). Only the data of worst case is recorded in the report.

#### 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 500hm/50 $\mu$ H + 50hm 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



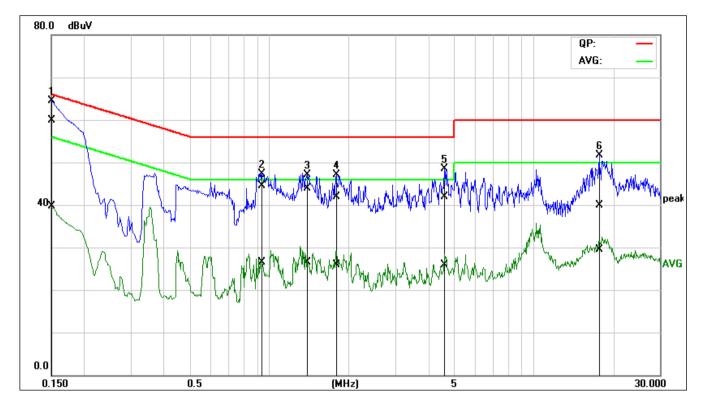
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Mode:b; Line:Live Line



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*	0.1500	40.35	20.11	19.50	59.85	39.61	66.00	56.00	-6.15	-16.39	Pass
2	0.9343	24.98	6.95	19.59	44.57	26.54	56.00	46.00	-11.43	-19.46	Pass
3	1.3997	24.26	6.93	19.62	43.88	26.55	56.00	46.00	-12.12	-19.45	Pass
4	1.7796	22.19	6.31	19.64	41.83	25.95	56.00	46.00	-14.17	-20.05	Pass
5	4.6176	22.13	6.20	19.80	41.93	26.00	56.00	46.00	-14.07	-20.00	Pass
6	17.7875	19.62	9.19	20.30	39.92	29.49	60.00	50.00	-20.08	-20.51	Pass



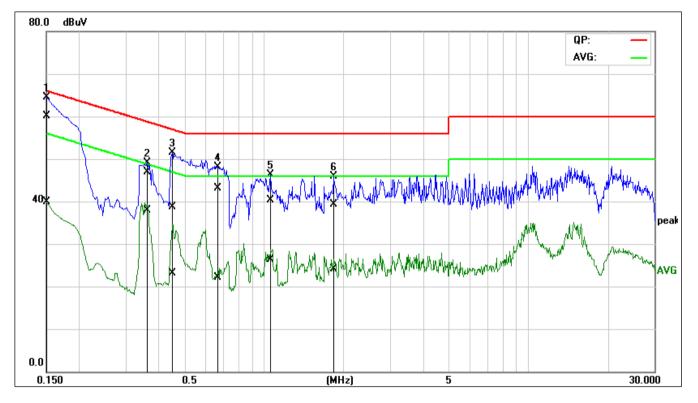
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Mode:b; Line:Neutral Line



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*	0.1500	40.59	20.36	19.48	60.07	39.84	66.00	56.00	-5.93	-16.16	Pass
2	0.3616	27.37	18.47	19.52	46.89	37.99	58.69	48.69	-11.80	-10.70	Pass
3	0.4531	19.18	3.62	19.55	38.73	23.17	56.82	46.82	-18.09	-23.65	Pass
4	0.6729	23.54	2.48	19.56	43.10	22.04	56.00	46.00	-12.90	-23.96	Pass
5	1.0582	20.71	6.80	19.60	40.31	26.40	56.00	46.00	-15.69	-19.60	Pass
6	1.8332	19.73	4.55	19.64	39.37	24.19	56.00	46.00	-16.63	-21.81	Pass



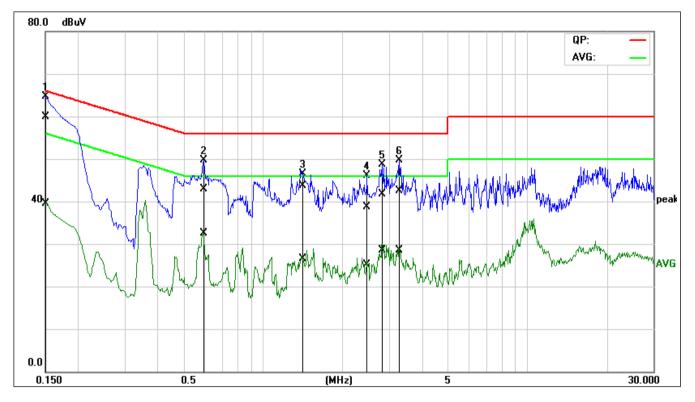
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Mode:h; Line:Live Line



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*	0.1500	40.32	20.09	19.50	59.82	39.59	66.00	56.00	-6.18	-16.41	Pass
2	0.5965	23.39	12.90	19.56	42.95	32.46	56.00	46.00	-13.05	-13.54	Pass
3	1.4122	24.11	6.94	19.62	43.73	26.56	56.00	46.00	-12.27	-19.44	Pass
4	2.4721	19.04	5.52	19.68	38.72	25.20	56.00	46.00	-17.28	-20.80	Pass
5	2.8250	21.92	8.88	19.70	41.62	28.58	56.00	46.00	-14.38	-17.42	Pass
6	3.2696	22.71	8.79	19.73	42.44	28.52	56.00	46.00	-13.56	-17.48	Pass



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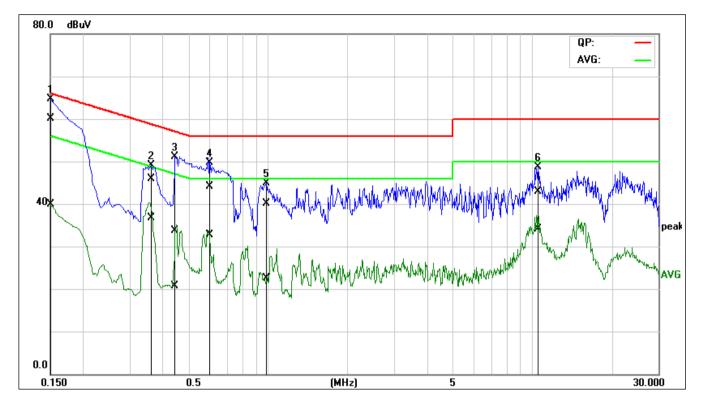
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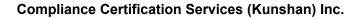
Mode:h; Line:Neutral Line



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*	0.1500	40.60	20.37	19.48	60.08	39.85	66.00	56.00	-5.92	-16.15	Pass
2	0.3630	26.32	17.20	19.52	45.84	36.72	58.66	48.66	-12.82	-11.94	Pass
3	0.4481	14.19	1.11	19.55	33.74	20.66	56.91	46.91	-23.17	-26.25	Pass
4	0.5986	24.52	13.06	19.56	44.08	32.62	56.00	46.00	-11.92	-13.38	Pass
5	0.9804	20.54	2.91	19.60	40.14	22.51	56.00	46.00	-15.86	-23.49	Pass
6	10.5217	22.76	14.08	20.05	42.81	34.13	60.00	50.00	-17.19	-15.87	Pass



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# 7.2 99% Bandwidth

**Test Requirement** Test Method:

N/A KDB 789033 II D

## 7.2.1 E.U.T. Operation

**Operating Environment:** 

Operating Enviro	nment:			
Temperature:	24 °C	Humidity: 50	% RH	Atmospheric Pressure: 1010 mbar
Pretest these modes to find the worst case:	mode with all tested and four rate @ MCS0 worst case of 802.11ac(VHT 802.11ac(VHT 802.11ac(VHT c:Module MT7 mode with all tested and four rate @ MCS0 worst case of 802.11ac(VHT 802.11ac(VHT	modulation types ind the data rate is the worst case IEEE 802.11n(H <sup>-</sup> 720); data rate @ 740); data rate @ 760). Only the da 7668 TX mode (B modulation types ind the data rate is the worst case IEEE 802.11n(H <sup>-</sup> 720); data rate @ 740); data rate @	All data ra (a) 6Mbps is (b) 6Mbps is (c) 6Mbps is (c) 740); data ra (c) 740); data ra (c) 740); data ra (c) 6Mbps is (c) 6Mbps is (c) 6Mbps is (c) 6Mbps is (c) 6Mbps is (c) 6Mbps is (c) 740); data ra (c) 740); data ra	p the EUT in continuously transmitting tes for each modulation type have been a the worst case of IEEE 802.11a; data 2.11n(HT20); data rate @ MCS0 is the ate @ MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE case is recorded in the report. p the EUT in continuously transmitting tes for each modulation type have been a the worst case of IEEE 802.11a; data 2.11n(HT20); data rate @ MCS0 is the ate @ MCS0 is the worst case of IEEE e worst case of IEEE e worst case of IEEE sate is recorded in the report.
	transmitting m type have bee 802.11a; data @ MCS0 is th worst case of IEEE 802.11a	ode with all mod in tested and fou rate @ MCS0 is e worst case of I IEEE 802.11ac(\ c(VHT40); data r	ulation types nd the data the worst ca EEE 802.11 /HT20); data ate @ MCS	Keep the EUT in continuously s. All data rates for each modulation rate @ 6Mbps is the worst case of IEEE ase of IEEE 802.11n(HT20); data rate n(HT40); data rate @ MCS0 is the a rate @ MCS0 is the worst case of 0 is the worst case of IEEE case is recorded in the report.
	transmitting m type have bee 802.11a; data @ MCS0 is th worst case of IEEE 802.11a 802.11ac(VHT	ode with all mod rate @ MCS0 is e worst case of I IEEE 802.11ac(\ c(VHT40); data r [80). Only the da	ulation types nd the data the worst ca EEE 802.11 /HT20); data ate @ MCS ta of worst c	Keep the EUT in continuously s. All data rates for each modulation rate @ 6Mbps is the worst case of IEEE ase of IEEE 802.11n(HT20); data rate n(HT40); data rate @ MCS0 is the a rate @ MCS0 is the worst case of 0 is the worst case of IEEE case is recorded in the report.
The worst case for final test:	mode with all tested and fou rate @ MCS0 worst case of 802.11ac(VHT 802.11ac(VHT	modulation types ind the data rate is the worst case IEEE 802.11n(H 720); data rate @ 740); data rate @	a. All data ra @ 6Mbps is of IEEE 80 T40); data ra MCS0 is th MCS0 is th	p the EUT in continuously transmitting tes for each modulation type have been a the worst case of IEEE 802.11a; data 2.11n(HT20); data rate @ MCS0 is the ate @ MCS0 is the worst case of IEEE worst case of IEEE e worst case of IEEE case is recorded in the report.
	mode with all tested and fou rate @ MCS0	modulation types ind the data rate is the worst case	a. All data ra @ 6Mbps is e of IEEE 80	p the EUT in continuously transmitting tes for each modulation type have been the worst case of IEEE 802.11a; data 2.11n(HT20); data rate @ MCS0 is the
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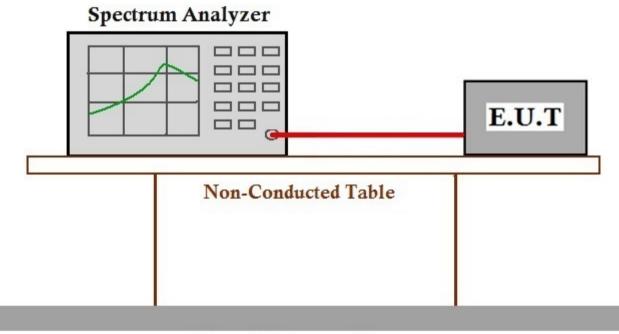


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worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU 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 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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(VHT40); 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(VHT40); 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(VHT40); 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.

i:Module RTL8812CU 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 is recorded in the report.

### 7.2.2 Test Setup Diagram



# **Ground Reference Plane**

### 7.2.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu





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## 7.3 26dB Emission bandwidth

Test Requirement47 CFR Part 15, Subpart E 15.407 (a)Test Method:KDB 789033 D02 II C 1

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

**Operating Environment:** 

Temperature:	24 °C	Humidity: 50	% <b>D</b> H	Atmospheric Pressure:	1010	mhar				
·		Humidity: 50		•						
Pretest these modes to find the worst case:	mode with all m tested and foun rate @ MCS0 is worst case of IE 802.11ac(VHT2 802.11ac(VHT4	odulation types. d the data rate ( s the worst case EEE 802.11n(HT 20); data rate ( 40); data rate (	All data rate 6Mbps is t of IEEE 802 40); data rate MCS0 is the MCS0 is the	the EUT in continuously s for each modulation typ he worst case of IEEE 80 .11n(HT20); data rate @ e @ MCS0 is the worst c worst case of IEEE worst case of IEEE se is recorded in the repo	be have 02.11a; o MCS0 is ase of IE	been data s the				
	h:Module RTL8812CU TX mode (Band 1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modula type have been tested and found the data rate @ 6Mbps is the worst case 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data @ 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 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:	mode with all m tested and foun rate @ MCS0 is worst case of IE 802.11ac(VHT2 802.11ac(VHT4	odulation types. d the data rate ( s the worst case EEE 802.11n(HT 20); data rate () 40); data rate ()	All data rate 6Mbps is t 6f IEEE 802 40); data rate MCS0 is the MCS0 is the	the EUT in continuously s for each modulation typ he worst case of IEEE 80 .11n(HT20); data rate @ e @ MCS0 is the worst c worst case of IEEE worst case of IEEE se is recorded in the repo	be have 02.11a; o MCS0 is ase of IE	been data s the				
	transmitting mo type have been 802.11a; data ra @ MCS0 is the worst case of IE IEEE 802.11ac	de with all modu tested and foun ate @ MCS0 is t worst case of IE EEE 802.11ac(VH (VHT40); data ra	lation types. d the data ra he worst cas EE 802.11n HT20); data te @ MCS0	eep the EUT in continuous All data rates for each m te @ 6Mbps is the worst e of IEEE 802.11n(HT20 (HT40); data rate @ MCS rate @ MCS0 is the worst is the worst case of IEEE se is recorded in the repo	odulatio case of ); data r 50 is the t case o	IEEE ate				



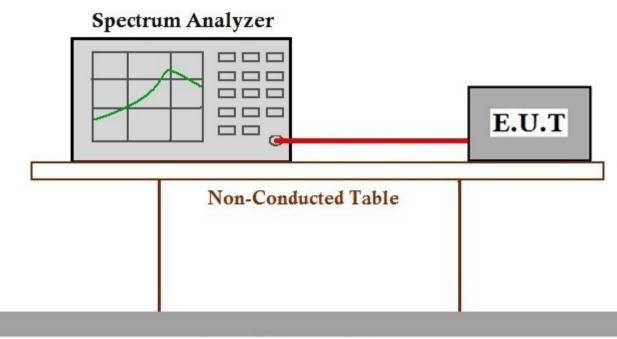
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7.3.2 Test Setup Diagram



# **Ground Reference Plane**

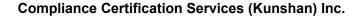
### 7.3.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu



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

Test Requirement Test Method: Limit: 47 CFR Part 15, Subpart E 15.407 (e) KDB 789033 D02 II C 2 ≥500 kHz



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#### 7.4.1 E.U.T. Operation

Operating Environment:							
Temperature:	24 °C	Humidity:	50	% RH	Atmospheric Pressure:	1010	mbar
Pretest these modes to find the worst case:	24 °C Humidity: 50 % RH Atmospheric Pressure: c:Module MT7668 TX mode (Band 3)_Keep the EUT in continuously to mode with all modulation types. All data rates for each modulation type tested and found the data rate @ 6Mbps is the worst case of IEEE 802 rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ M worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case 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 repo i:Module RTL8812CU TX mode (Band 3)_Keep the EUT in continuous transmitting mode with all modulation types. All data rates for each mo type have been tested and found the data rate @ 6Mbps is the worst case 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20) @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst 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(VHT40); 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the repo		pe have D2.11a; ( MCS0 i case of II ort. usly codulatic case of D); data r S0 is the st case of	been data s the EEE on TIEEE rate			
The worst case for final test:	mode with all r tested and four rate @ MCS0 i worst case of I 802.11ac(VHT 802.11ac(VHT 802.11ac(VHT i:Module RTL8 transmitting mo type have been 802.11a; data @ MCS0 is the worst case of I IEEE 802.11ac	nodulation ty nd the data ra is the worst c EEE 802.11r 20); data rate 40); data rate 80). Only the 812CU TX m bde with all m n tested and f rate @ MCS0 worst case EEE 802.11a c(VHT40); data	pes. Al ate @ ( ase of (HT40 e @ M( e @ M( data c dode (E dode (E dode (E found t ) is the of IEEE ac(VHT ta rate	II data rate 6Mbps is th IEEE 802. 0); data rate CS0 is the CS0 is the of worst cas and 3)_Ket tion types. the data ra worst cas E 802.11n( C20); data r @ MCS0	the EUT in continuously s for each modulation type worst case of IEEE 80 11n(HT20); data rate @ e @ MCS0 is the worst of worst case of IEEE worst case of IEEE se is recorded in the rep eep the EUT in continuou All data rates for each m te @ 6Mbps is the worst e of IEEE 802.11n(HT20 HT40); data rate @ MCS0 is the worst case of IEEE se is recorded in the rep	pe have D2.11a; ( MCS0 i case of II ort. usly codulatic case of D); data r S0 is the st case of E	been data s the EEE on TIEEE rate



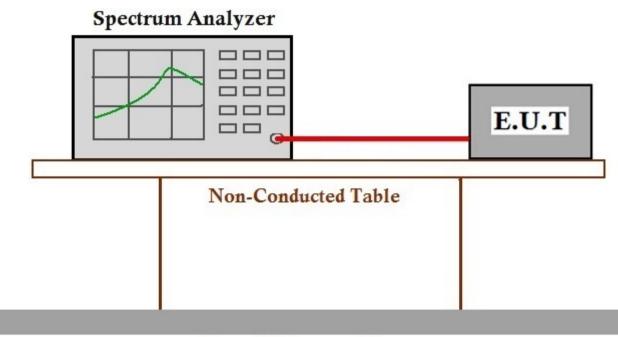
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7.4.2 Test Setup Diagram



# **Ground Reference Plane**

## 7.4.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu



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## 7.5 Maximum Conducted output power

Test Requirement47 CFR Part 15, Subpart E 15.407 (a)Test Method:KDB 789033 D02 II ELimit:Limit

Frequenc	y band(MHz)	Limit		
E1E0.5	250	≤1W(30dBm) for master device		
5150-5	5250	≤250mW(23.98dBm) for client device		
5250-5	5350	≤250mW(23.98dBm) for client device or 11dBm+10logB*		
5470-5	5725	≤250mW(23.98dBm) for client device or 11dBm+10logB*		
5725-5	5850	≤1W(30dBm)		
Remark:	1. *Where B is	the 26dB emission bandwidth in MHz.		
	<ul> <li>The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.</li> <li>2. The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module RTL8812CU of each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is 6.35dBi. Therefore, the power limit should be reduced from the part exceeding 6, 5150-5250MHz; 23.63dBm &amp; 5725-5850MHz; 29.65dBm.</li> </ul>			
	3. For IC 5150MHz to 5250MHz limit is EIRP≤200mW(23.01dBm)			
	The EUT 802 RTL8812CU c	.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module f each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is efore, the power limit should be reduced from the part exceeding 6, 5725-		



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#### 7.5.1 E.U.T. Operation

.5.1	E.U.I. Operation	
	Operating Enviror	iment:
	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
	Pretest these modes to find the worst case:	b:Module MT7668 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(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(VHT40); 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(VHT40); 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(VHT40); 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(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:Module MT7668 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(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.
		h:Module RTL8812CU 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(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. i:Module RTL8812CU 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 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; 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(VHT40); 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(VHT40); 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(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:Module MT7668 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:Module MT7668 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 802.11a; 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(VHT40); 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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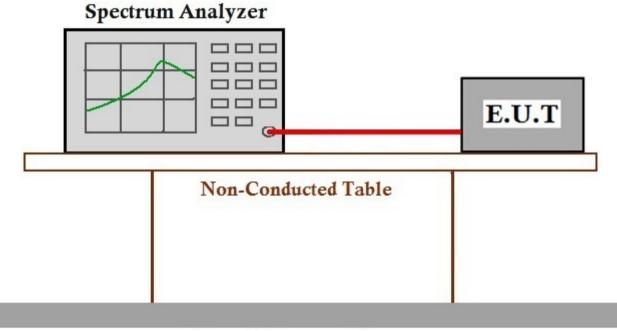


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802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

i:Module RTL8812CU 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(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 is recorded in the report.

### 7.5.2 Test Setup Diagram

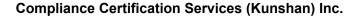


# **Ground Reference Plane**

### 7.5.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu







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## 7.6 Peak Power spectrum density

Test Requirement47 CFR Part 15, Subpart E 15.407 (a)Test Method:KDB 789033 D02 II FLimit:Limit

Frequenc	y band(MHz)	Limit		
E1E0 E	250	≤17dBm in 1MHz for master device		
5150-5	0250	≤11dBm in 1MHz for client device		
5250-5	5350	≤11dBm in 1MHz for client device		
5470-5	5725	≤11dBm in 1MHz for client device		
5725-5	850	≤30dBm in 500 kHz		
Remark:	1. The maximum power spectral density is measured as a conducted emission by c connection of a calibrated test instrument to the equipment under test.			
2. The EUT 802.11n/ac mode supports 2 * 2 MIMO transmission. The gain for RTL8812CU of each antenna is 3.06dBi and 3.60dBi, and the directional antenna 6.35dBi. Therefore, the power spectrum density limit should be reduced from exceeding 6, 5150-5725MHz: 10.65dBm/MHz; 5725-5850MHz: 29.65dBm/500k		f each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is efore, the power spectrum density limit should be reduced from the part		
	3. For IC 5150MHz to 5250MHz limit is EIRP PSD≤10dBm/MHz			
	RTL8812CU o 6.35dBi. There	.11n/ac mode supports 2 * 2 MIMO transmission. The gain for Module f each antenna is 3.06dBi and 3.60dBi, and the directional antenna gain is efore, the power spectrum density limit should be reduced from the part 5725-5850MHz: 29.65dBm/500kHz.		



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

.6.1	E.U.I. Operation	i de la constante d			
	Operating Enviror	nment:			
	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar			
	Pretest these modes to find the worst case:	b:Module MT7668 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(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. c:Module MT7668 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(VHT40); 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.			
		h:Module RTL8812CU 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.			
		i:Module RTL8812CU 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(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.			
	The worst case for final test:	b:Module MT7668 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(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.			
		c:Module MT7668 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 802 MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802.11ac(VHT40); data rate 8			
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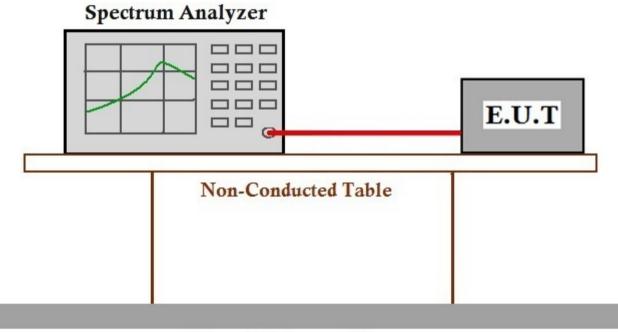


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802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

i:Module RTL8812CU 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(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 is recorded in the report.

### 7.6.2 Test Setup Diagram



# Ground Reference Plane

### 7.6.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu





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# 7.7 Radiated Emissions

Test Requirement	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
Test Method:	KDB 789033 D02 II G
Limit:	

#### Limit:

For transmitters operating in the 5.15-5.25 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).			
For transmitters operating in the 5.25-5.35 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).			
For transmitters operating in the 5.47-5.725 GHz band:	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).			
For transmitters operating in the 5.725-5.85 GHz band:	(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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#### 7.7.1 E.U.T. Operation

1.1	E.U.I. Operation	
	Operating Environ	nment:
	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
	Pretest these modes to find the worst case:	b:Module MT7668 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(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(VHT40); 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(VHT40); 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(VHT40); 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(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:Module MT7668 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(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.
		h:Module RTL8812CU 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. i:Module RTL8812CU 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:Module MT7668 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(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.
		c:Module MT7668 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 802 MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802 MCS0 WCS0 WCS0 WCS0 WCS0 WCS0 WCS0 WCS0 W
Tampa Harr	大和技(昆山) 市 和 地 加 大和 地 ( 尾山) で 一 一 一 一 一 一 一 一 一 一 一 一 一	Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document is encoded to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are related for 30 days only. Attention: To check the authenticity of testing inspection report a certificate, please contact us at telephone: (86-755) 83071443, or email: <u>CNL Doccheck@sgs.com</u>

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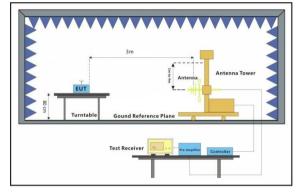
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 KSCR220100003202

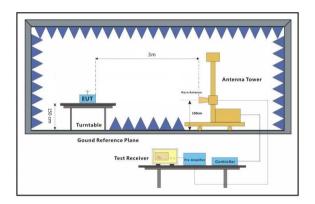
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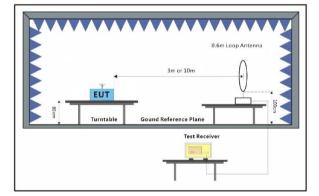
802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

i:Module RTL8812CU 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 is recorded in the report.

# 7.7.2 Test Setup Diagram









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### 7.7.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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

5. This test item was investigated while operating in SISO and MIMO mode, however, it was determined that SISO antenna 1 operation for 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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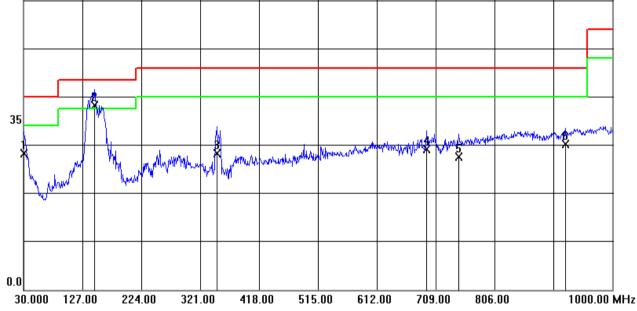
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### 30MHz-1GHz

Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low
70.0 dBuV/m
Limit1:
Margin:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	2.80	25.38	28.18	40.00	-11.82	QP
2	147.3700	18.24	20.05	38.29	43.50	-5.21	QP
3	348.1600	5.89	22.32	28.21	46.00	-17.79	QP
4	693.4800	1.66	27.45	29.11	46.00	-16.89	QP
5	746.8300	0.10	27.48	27.58	46.00	-18.42	QP
6	922.4000 1.25	28.95	30.20	46.00	-15.80	QP	

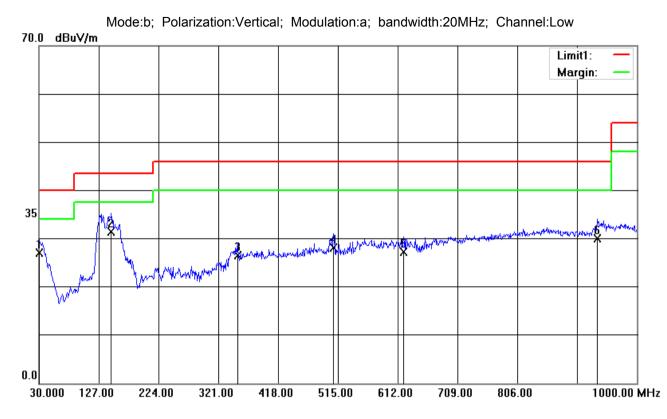


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	1.05	25.93	26.98	40.00	-13.02	QP
2	147.3700	11.28	20.05	31.33	43.50	-12.17	QP
3	352.0400	4.16	22.43	26.59	46.00	-19.41	QP
4	507.2400	2.69	25.33	28.02	46.00	-17.98	QP
5	621.7000	0.49	26.77	27.26	46.00	-18.74	QP
6	6 935.9800 0.91	29.12	30.03	46.00	-15.97	QP	

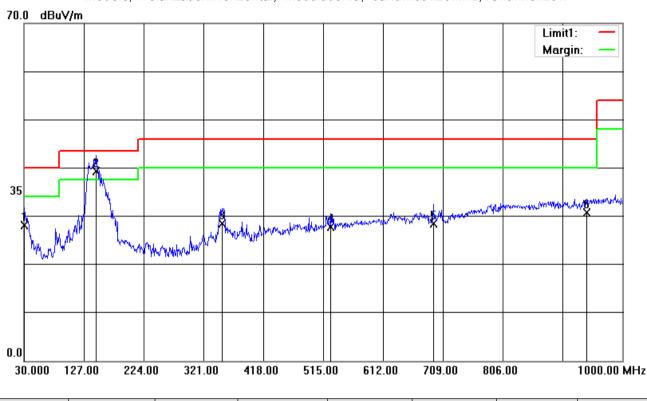


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Mode:c; Polarization:Horizontal;	Modulation	handwidth:20MHz.	Channel I ow
	wouulation.a,		Channel.LOW

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.9700	2.65	25.38	28.03	40.00	-11.97	QP
2	147.3700	19.17	20.05	39.22	43.50	-4.28	QP
3	351.0700	6.10	22.41	28.51	46.00	-17.49	QP
4	527.6100	2.14	25.57	27.71	46.00	-18.29	QP
5	693.4800	0.91	27.45	28.36	46.00	-17.64	QP
6	941.8000	1.51	29.20	30.71	46.00	-15.29	QP

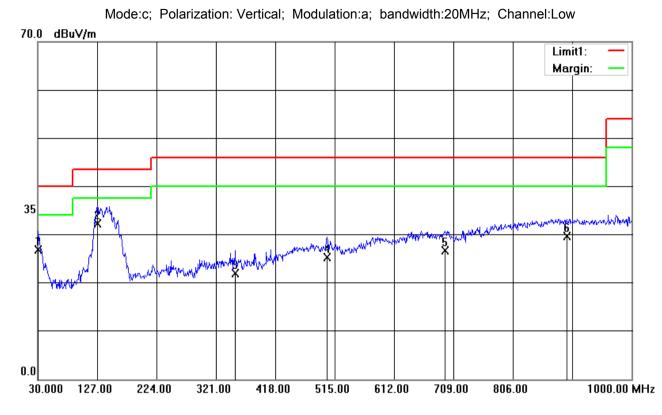


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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	30.0000	0.96	25.93	26.89	40.00	-13.11	QP
2	127.9700	12.90	19.42	32.32	43.50	-11.18	QP
3	352.0400	-0.39	22.43	22.04	46.00	-23.96	QP
4	502.3900	0.06	25.27	25.33	46.00	-20.67	QP
5	695.4200	-0.77	27.46	26.69	46.00	-19.31	QP
6	894.2700	1.15	28.60	29.75	46.00	-16.25	QP

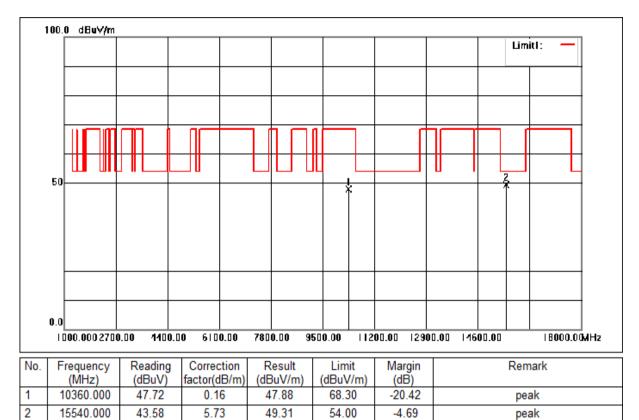
Mode:b; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



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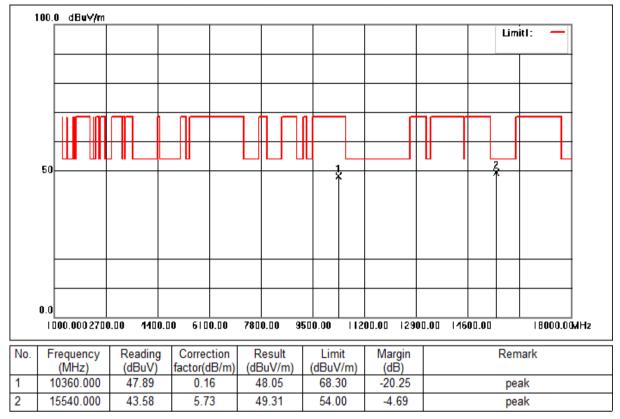


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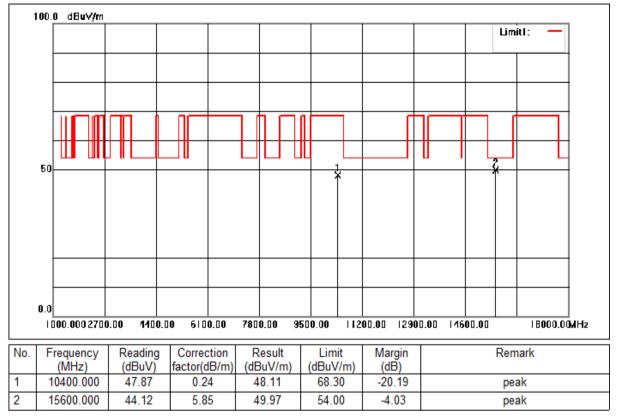
Mode:b; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low



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



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No.	F	requency (MHz)	Reading (dBuV)	Correct factor(c			esult BuV/m)		mit ıV/m)	Ma (d	rgin B)			Ren	nark	
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2	1	5600.000	44.34	5.8	5	5	0.19	54	.00	-3	.81			pe	ak	

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



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1	100.0 	0 dBu∀/m												Lim	itl: —	
	50															
	0.0	100.000 270	0.00 110	D.00 610	0.00	780	0.00 9	500	).00  12	00.00	2900.0	10 146	00.00		18000.00	MHz
No.		requency (MHz)	Reading (dBuV)	Correct factor(c			esult uV/m)	((	Limit dBuV/m)	Margi (dB)	in			Rem	nark	
1 2		0480.000 5720.000	48.62 44.21	0.4			9.02 0.31		68.30 54.00	-19.2 -3.6				pea pea		

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



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1	00.0	0 dBu∀/m														
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	50.															
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		100.000 270	0.00 1100	0.00 610	0.00	780	0.00	950	0.00	200.00	1290	0.00	14600.	00	   8000.00	l MHz
No.	F	requency (MHz)	Reading (dBuV)	Corre			esult JuV/m)		Limit (dBuV/m)	Ma (d	rgin B)			Re	mark	
1	1	0480.000	48.48	0.4			8.88	T	68.30		9.42			pe	eak	
2	1	5720.000	43.83	6.1	0	4	9.93		54.00	-4	.07			pe	eak	

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

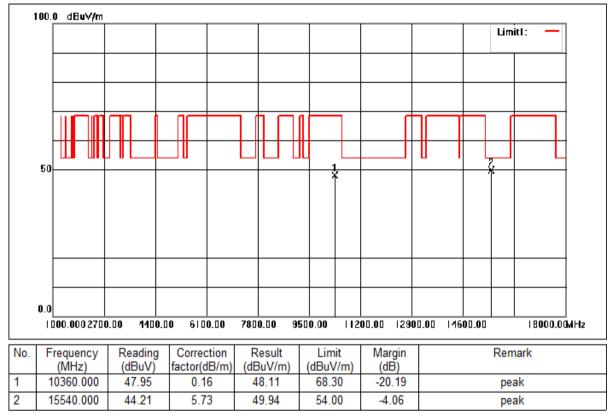


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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1	00.0	0 dBu∀/m														
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	50-															
	0.0															
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No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d			esult BuV/m)	Lin (dBu\		Marg (dE	gin 3)			Rem	nark	
1	1	0360.000	48.66	0.1			8.82	68.3		-19.				pea	ak	
2	1	5540.000	44.30	5.7	3	5	0.03	54.0	00	-3.9	97			pea	ak	

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

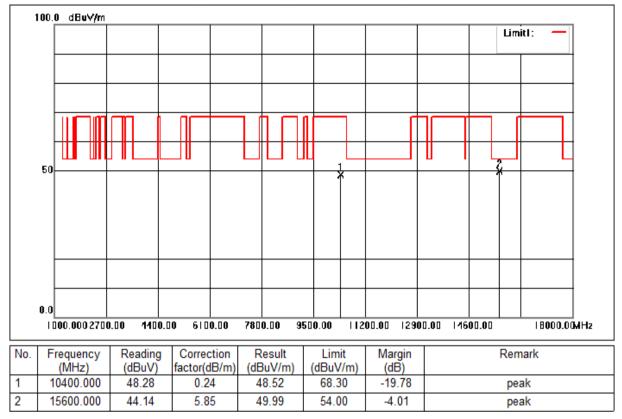


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:middle



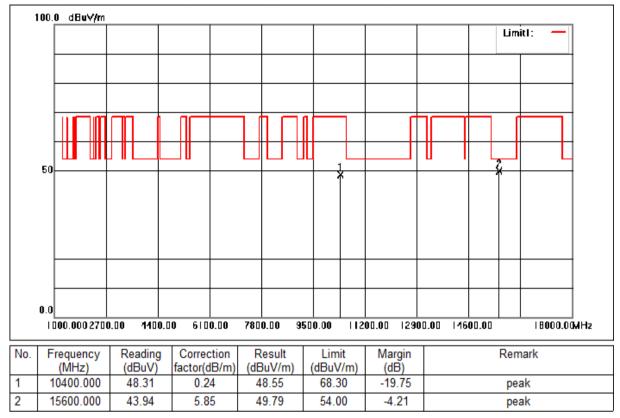
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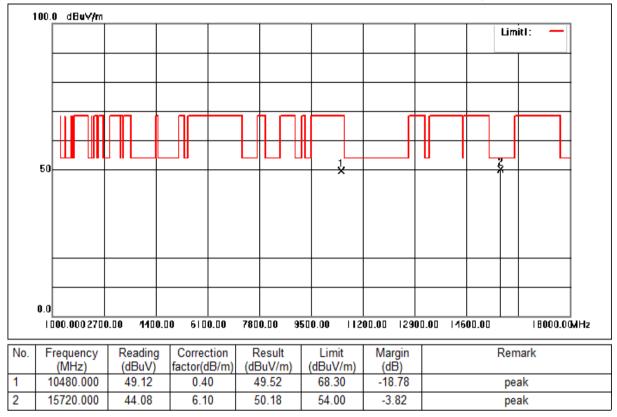
Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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

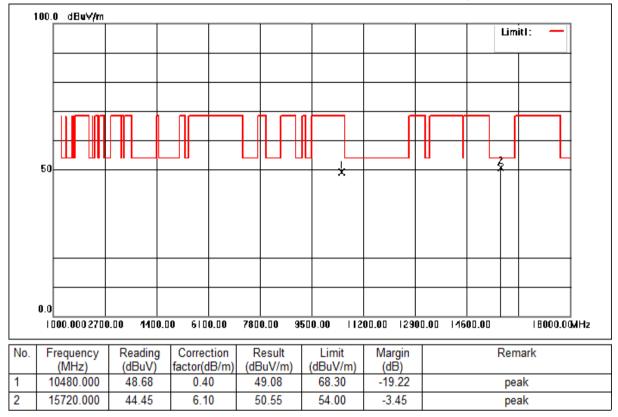


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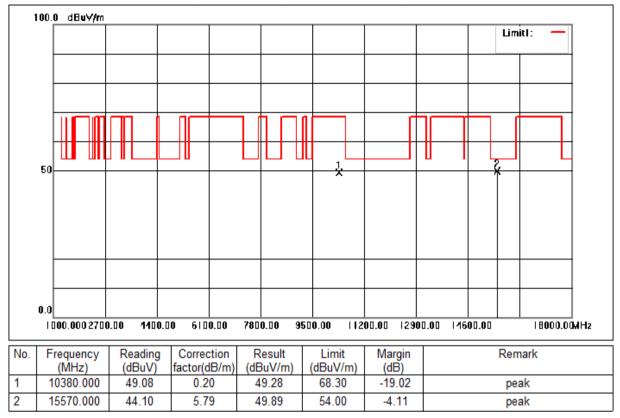
Mode:b; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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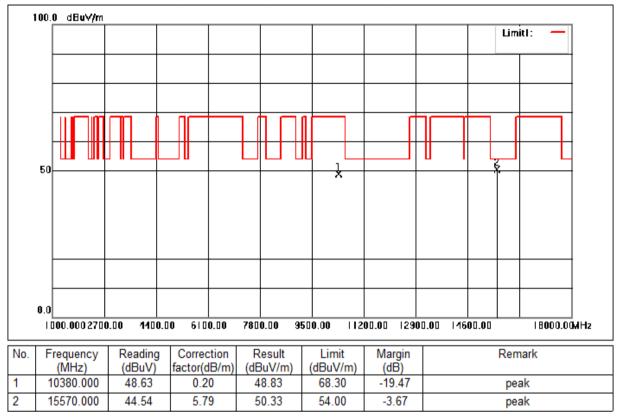
Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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

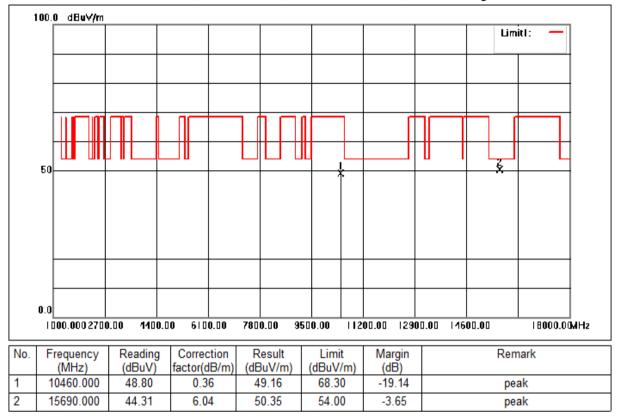


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Mode:b; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High

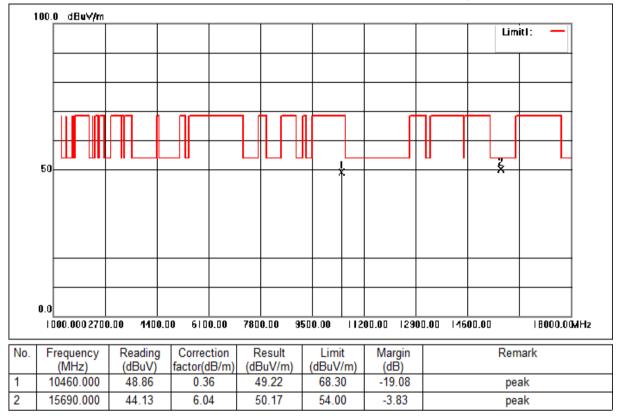


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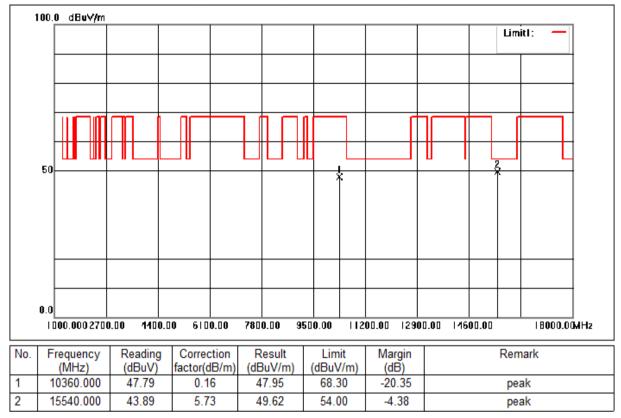
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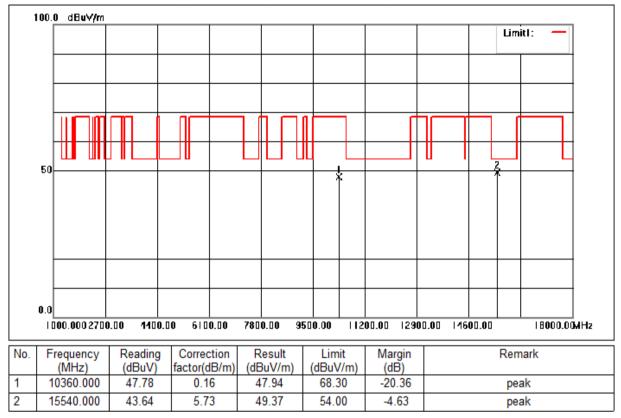
Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



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

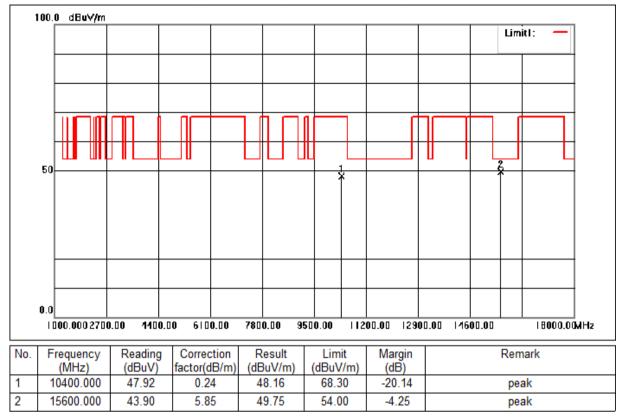


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No.	F	requency	Reading				esult		Lim		Ma	rgin				Rem	nark	
1	1	(MHz) 0400.000	(dBuV) 48.27	factor(d			8uV/m) 8.51	+(	dBuV 68.3			B) ).79				pe	ak	
2		5600.000	43.97	5.8			9.82	$\vdash$	54.0			.18				pe		

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

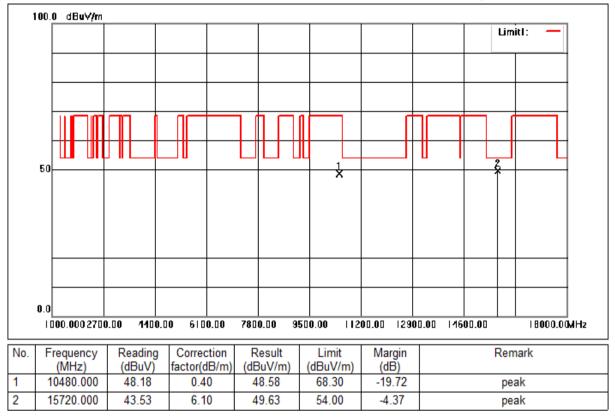


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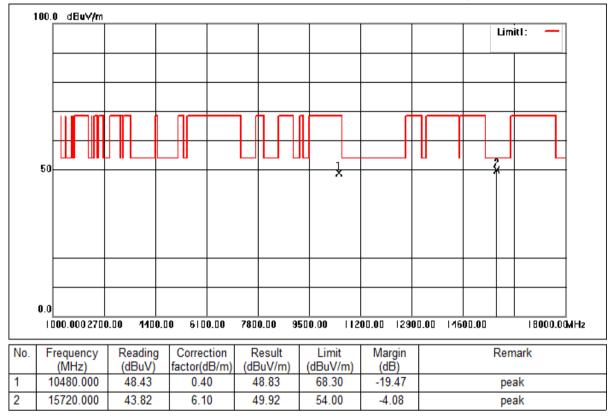
Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



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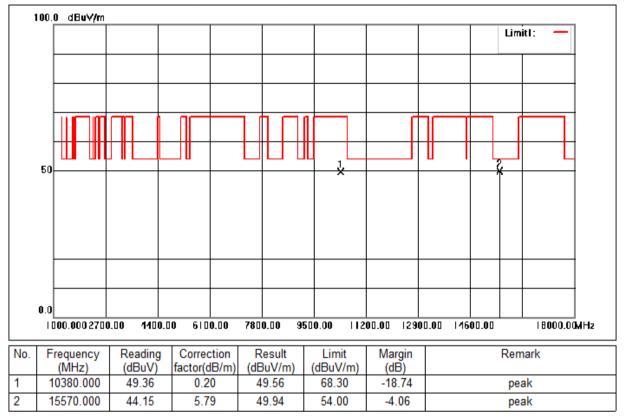
Mode:b; Polarization:Vertical; Modulation:c; bandwidth:20MHz; Channel:High



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



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2		5570.000	43.88	5.7			9.67		54.00		.33			pe		

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



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1	1	10460.000 49.08		0.3		49.44		(	68.30		-18.86			peak				
2	15690.000 44.57			6.0	4	50.61			54.00	)	-3.39			peak				

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

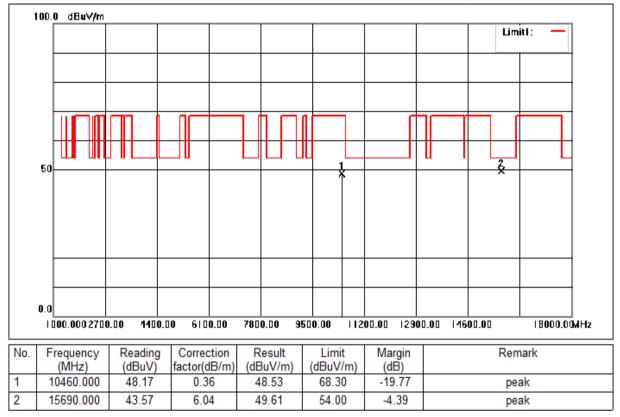


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No.			Reading (dBuV)	Correction factor(dB/m)		Result (dBuV/m)		6	Limit (dBuV/m)		Margin (dB)			Remark				
1	10420.000		48.77	0.2		49.05			68.30		-19.25			peak				
2	15630.000 44.45			5.9	2	0.37		54.00		-3.63			peak					

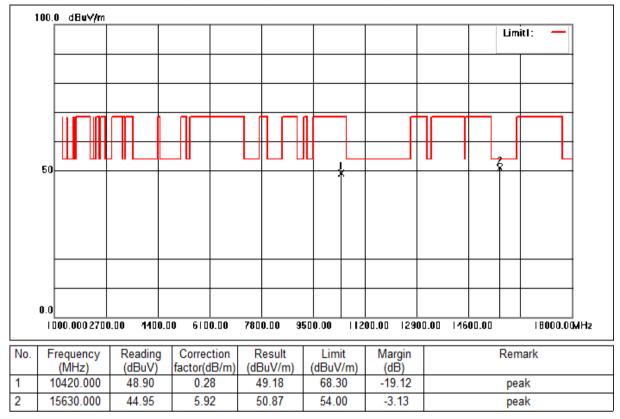
Mode:b; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



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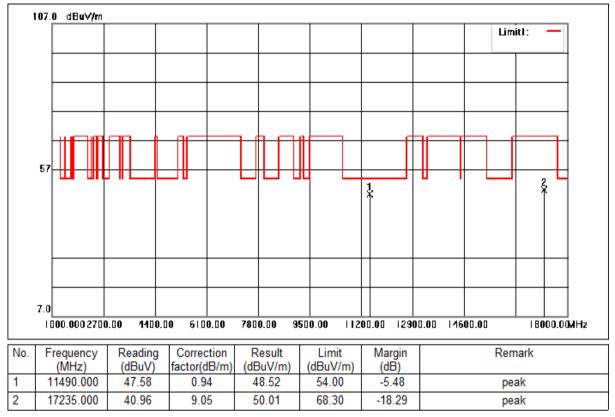
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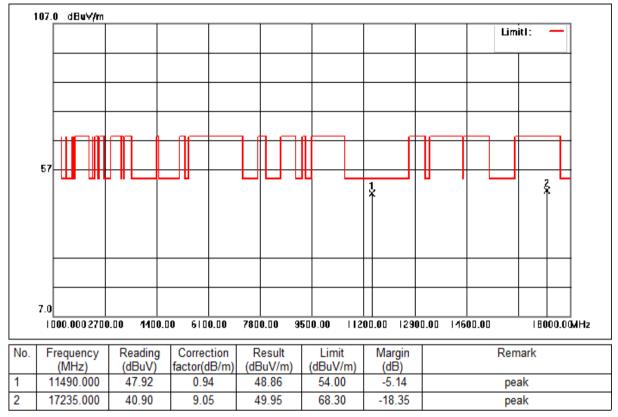
Mode:c; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



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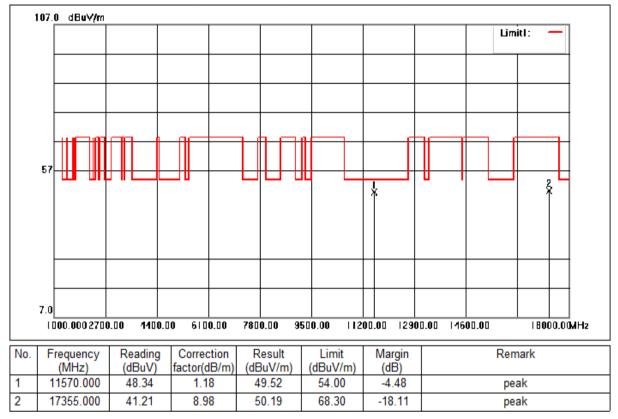


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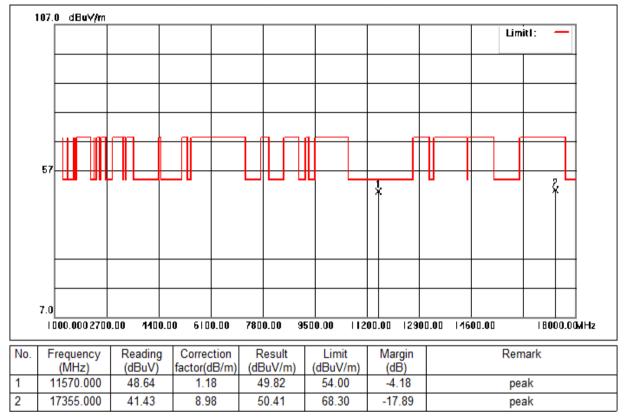
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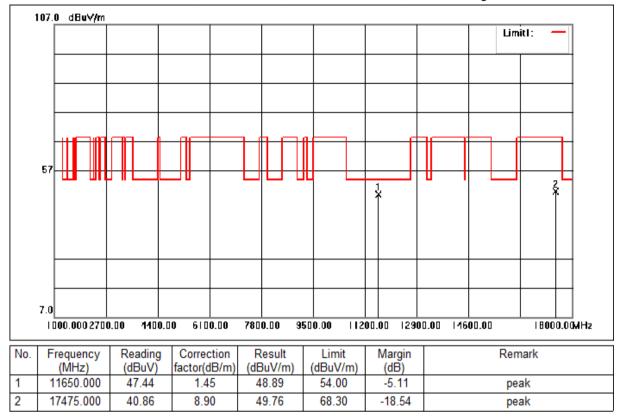
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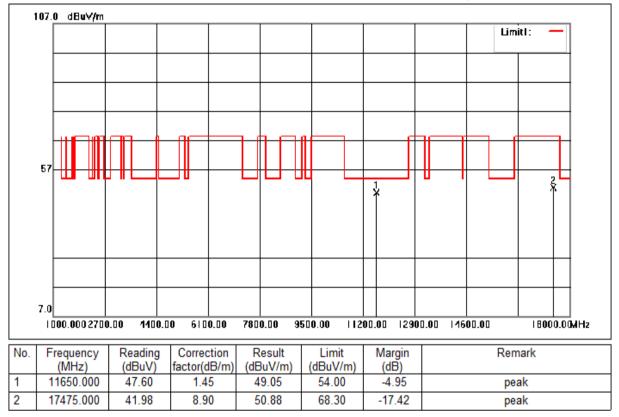
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Mode:c; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:High

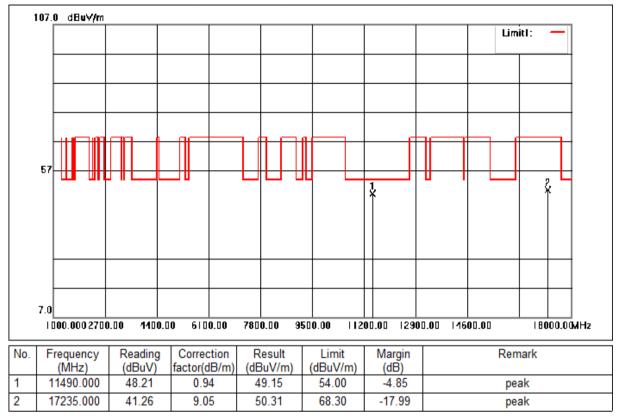


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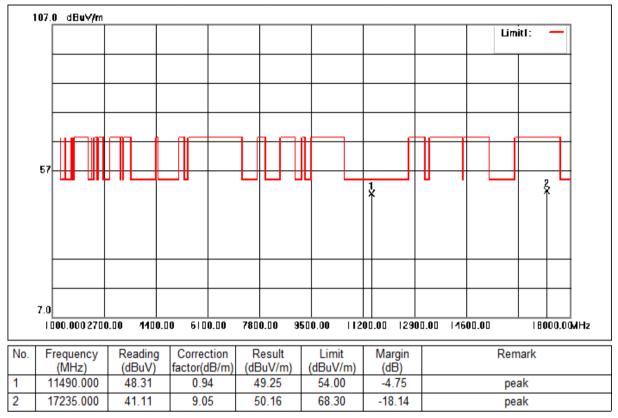
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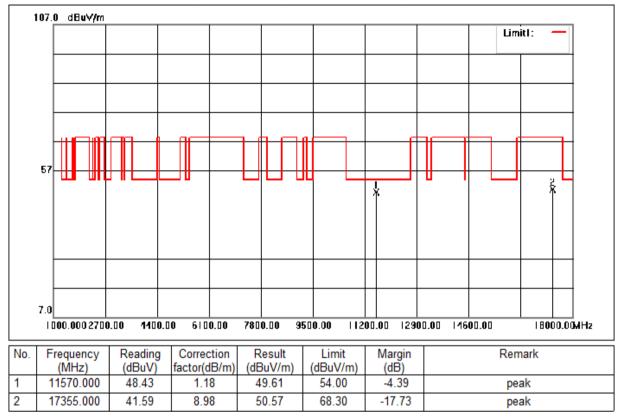
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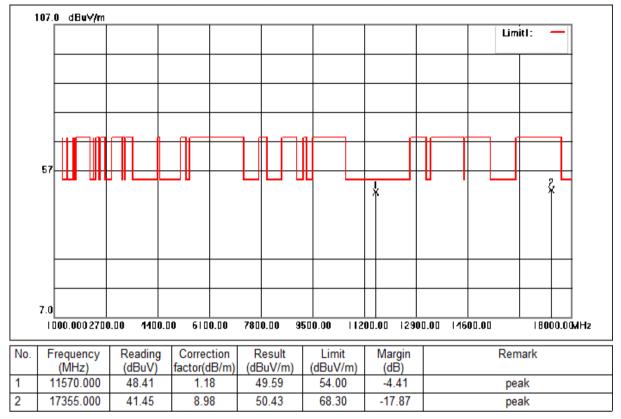


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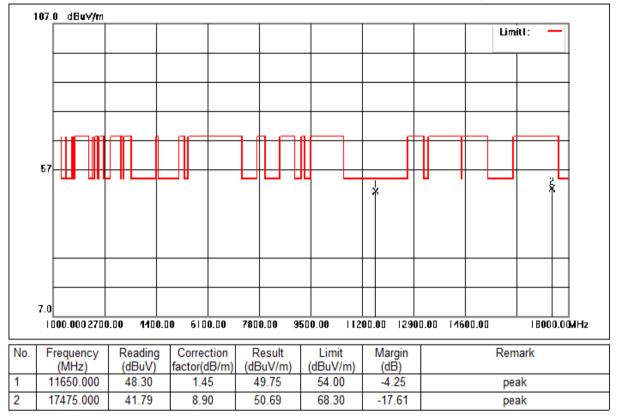
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Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:High

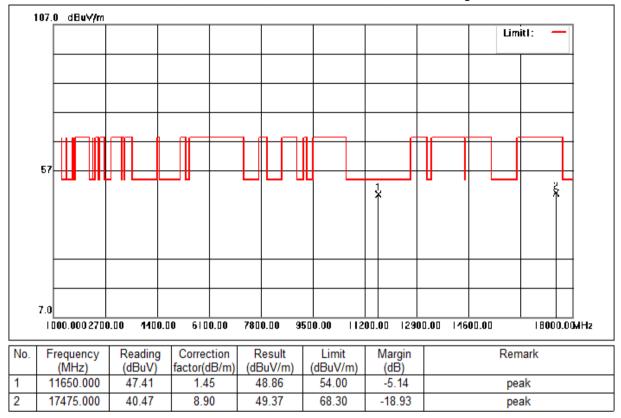


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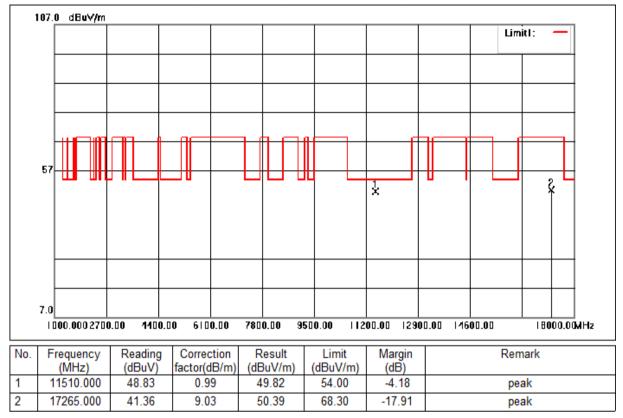


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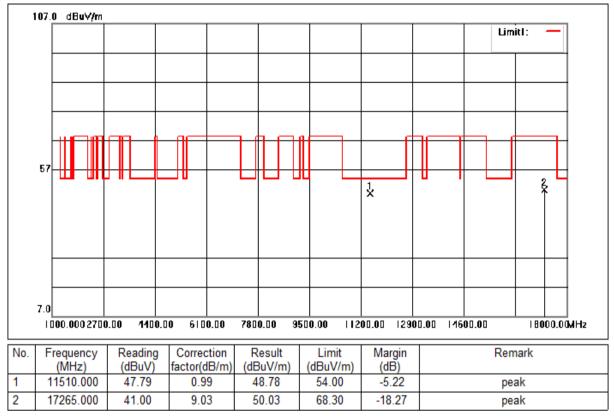
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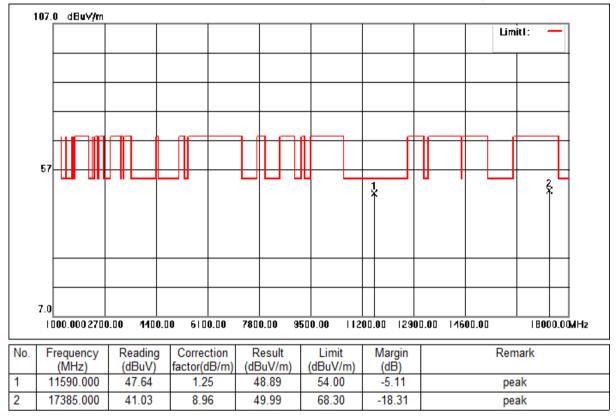
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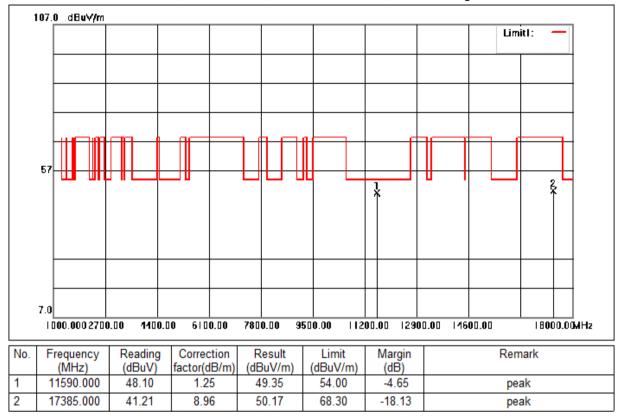
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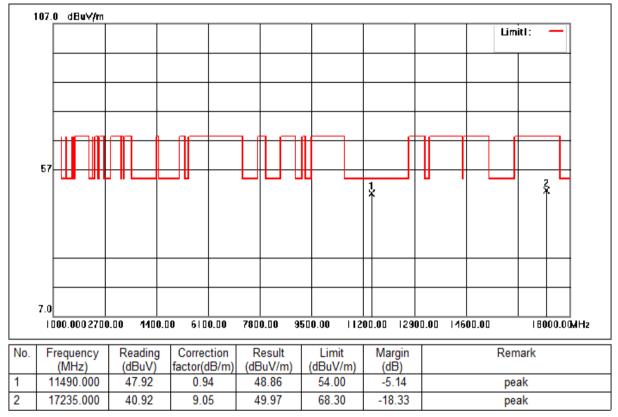
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:Low



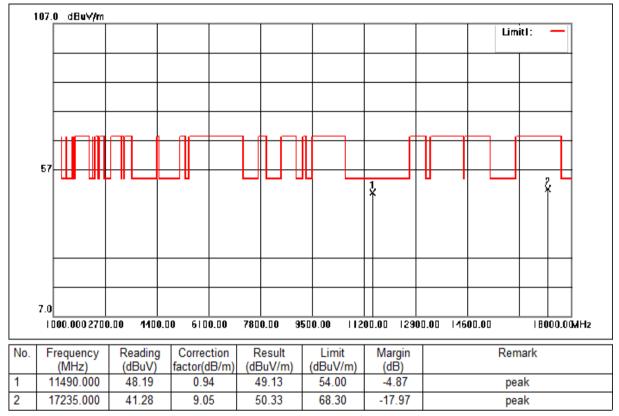
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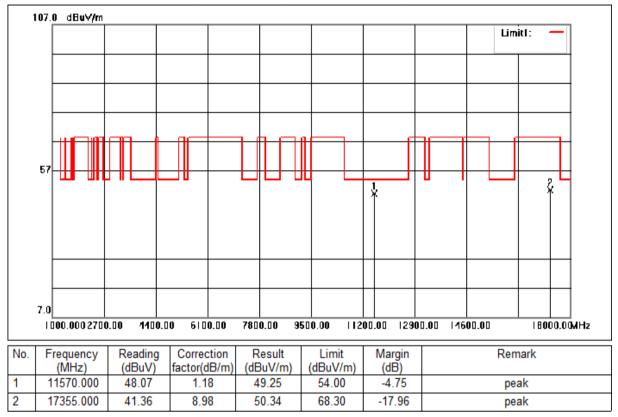
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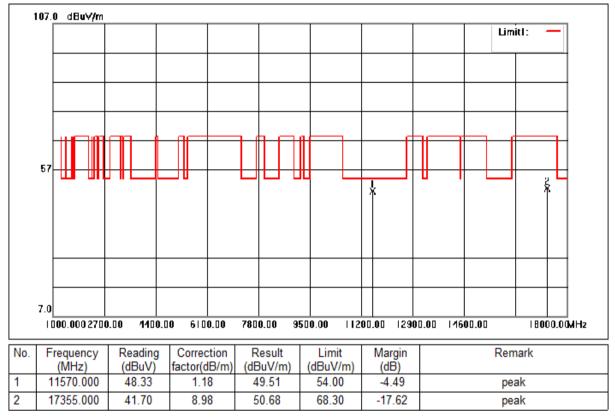


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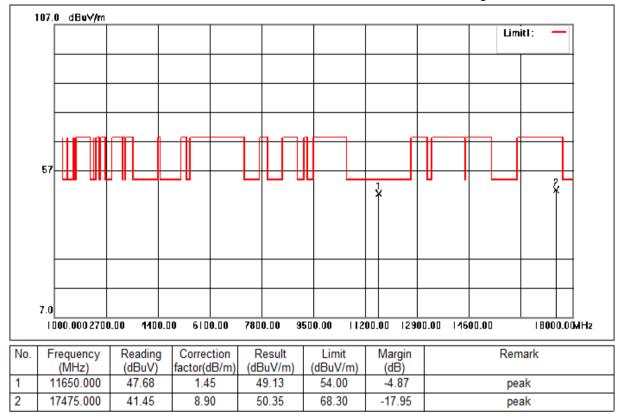
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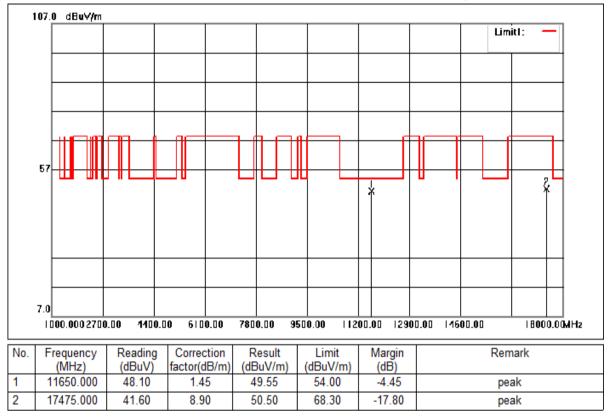


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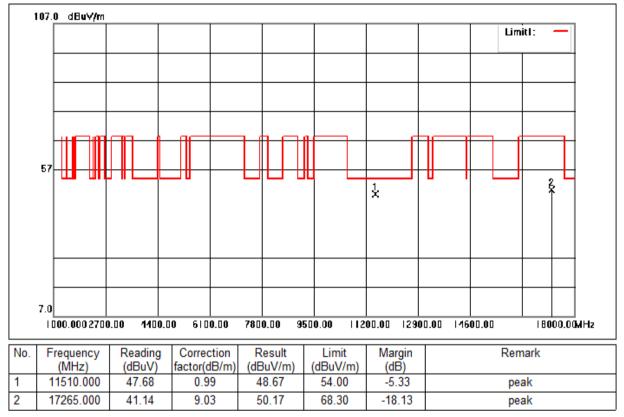
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Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

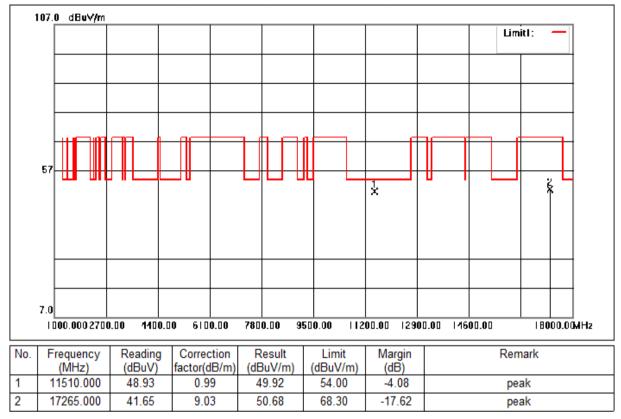


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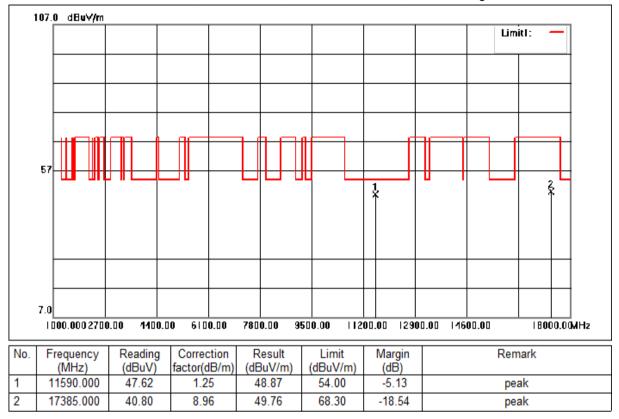
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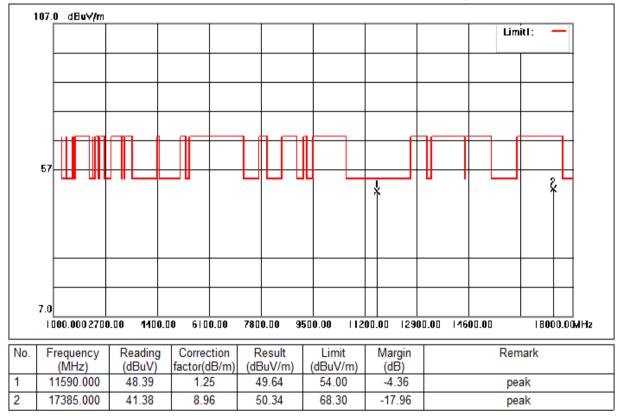


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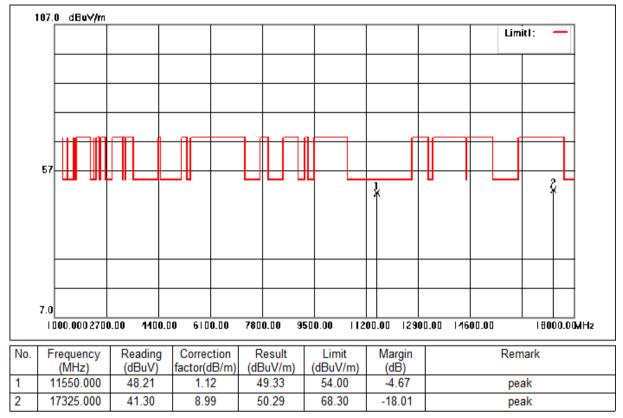
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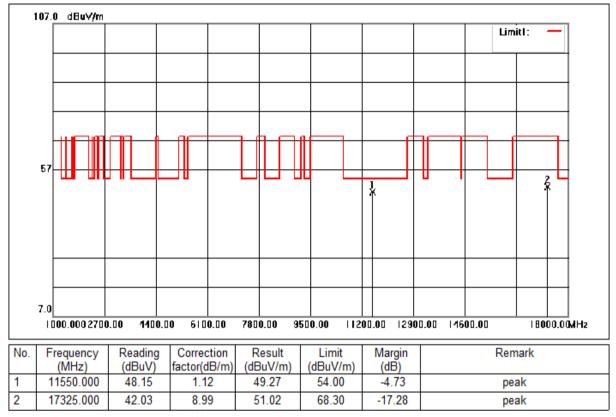
Mode:c; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



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



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1	00.	0 dBu∀/m				_										
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	50															
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		100.000 2701	0.00 110	0.00 610	0.00 78	00.00	951	10.00	112	00.00	12901	0.00 146	500.00	L	18000.00	MHz
No.	Frequency Reading (MHz) (dBuV)		Correct factor(d		Result (dBuV/m)		Limit (dBuV/m)		Margin (dB)			Remark				
1			48.85	0.1		49.01		68.30		-19.29			peak			
2	15540.000 44.40			5.7	3	50.13		54.0	)0	-3.	.87 peal			ak		

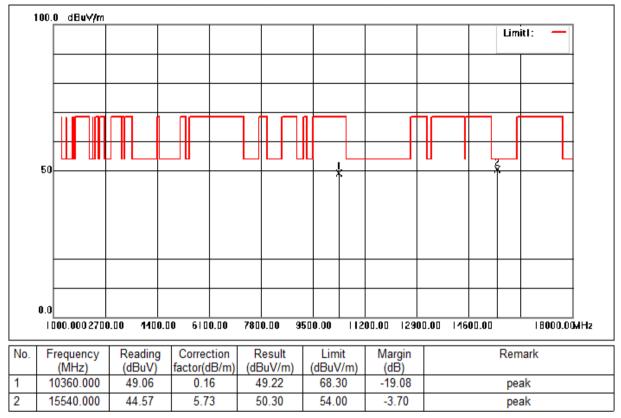
Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low



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	0.0															
		100.000 270	0.00 1100	0.00 610	0.00 7	780(	0.00 95	00.00	2	00.00	1290	0.00 140	500.00	1	18000.00	MHz
No.			Reading (dBuV)	Correction factor(dB/m)		Result (dBuV/m)		Limit (dBuV/m)		Mar (dE	Margin (dB)		Remark			
1	10400.000		48.93	0.2		49.17		68.30		-19.13			peak			
2	15600.000 44.39		5.8	5	50.24		54.00		-3.76			peak				

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

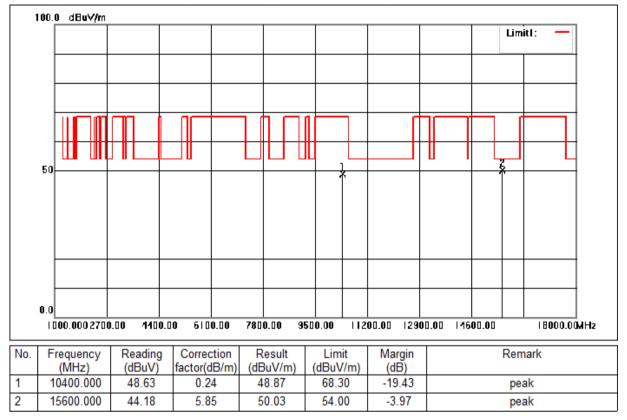


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		100.000218			0.00	100	0.00 34	500			.300.0					M112
No.	Frequency (MHz)		Reading (dBuV)	Correction factor(dB/m)		Result (dBuV/m)		(0	Limit IBuV/m)	Margin (dB)		Remark				
1			49.52	0.40		49.92			68.30	-18.38		peak				
2	15720.000 43.93		6.1	0	50.03			54.00	-3.97		peak					

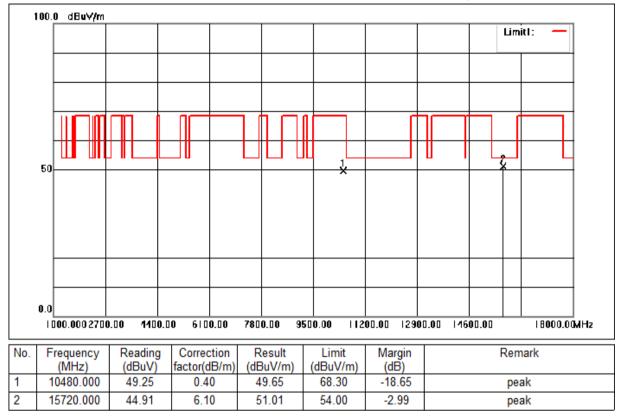
Mode:h; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:High



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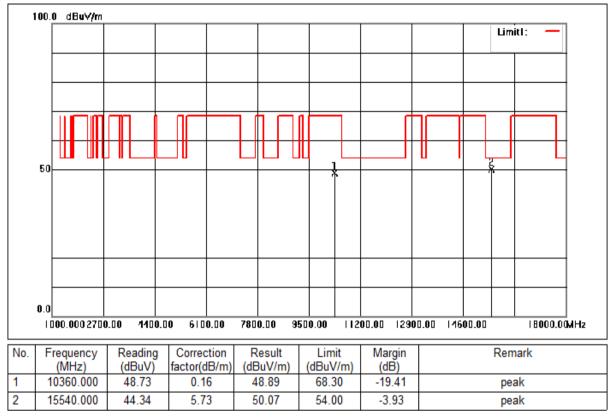
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1	00.9	0 dBu∀/m														
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		00.000 270	).00 110(	0.00 610	0.00	780	0.00 99	500.00	112	00.00	1290	0.00 14	600.00		18000.00	MHz
No.			Reading (dBuV)	Correct		Result (dBuV/m)		Limit (dBuV/m)		Mar (d	largin (dB)		Remark			
1	10360.000		48.99	0.1		49.15		68.30		-19.15			peak			
2	15540.000 44.88			5.7	3	5	0.61	54	.00	-3.39			pea	peak		

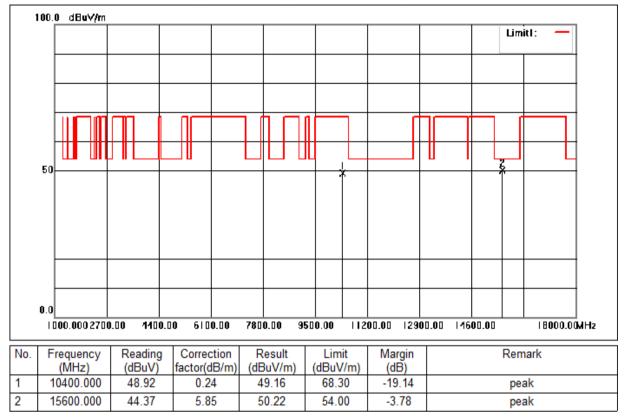
Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:Low



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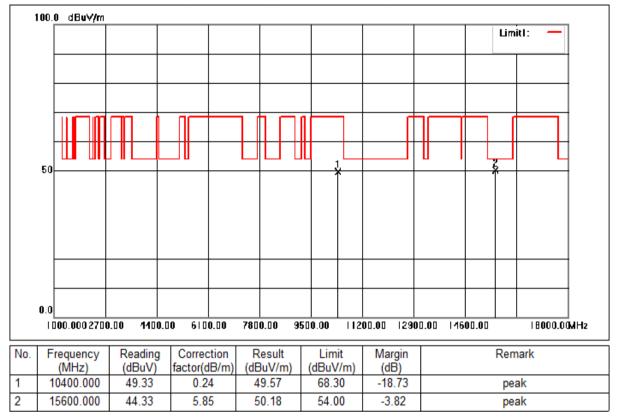


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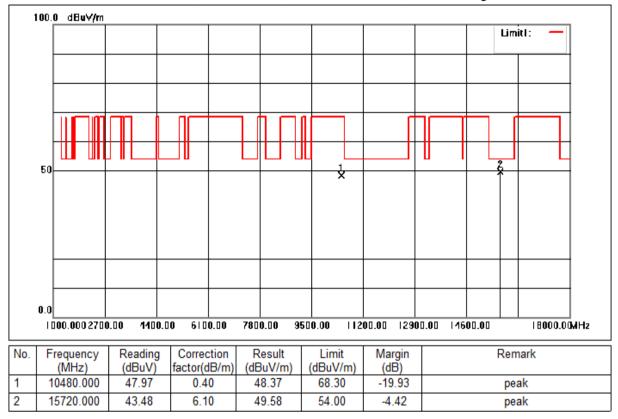
Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:middle



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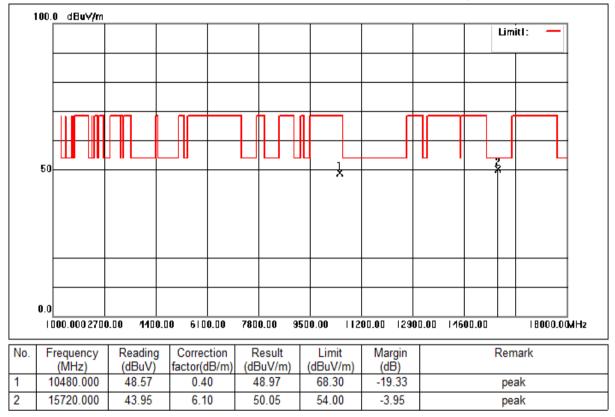


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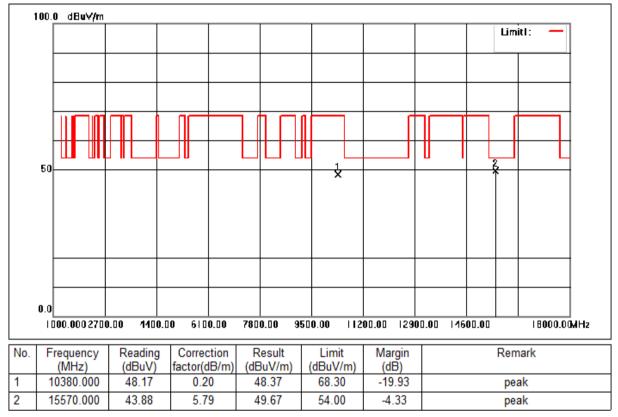
Mode:h; Polarization:Vertical; Modulation:n; bandwidth:20MHz; Channel:High



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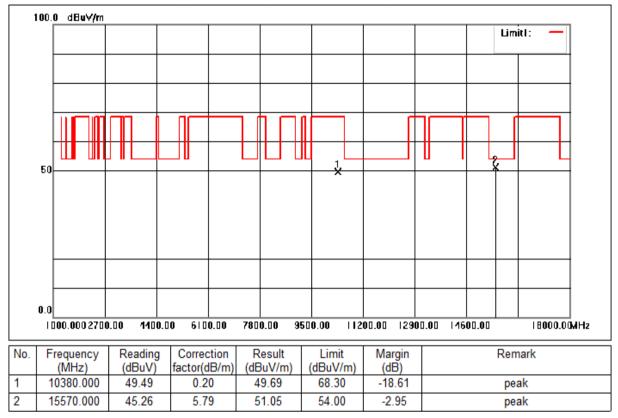
Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:Low



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		100.000 270	D.00 1100	.00 610	0.00 7	300.00	950	10.00	112	00.00	12900.	.00   16	00.00	18000.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d		Resul dBuV/		Limi (dBuV		Marg (dE	gin		Ren	nark	
1	1	0460.000	49.65	0.3		50.01		68.3		-18.	-		pe	ak	
2	1	5690.000	44.93	6.0	4	50.97	'	54.0	0	-3.0	03			ak	

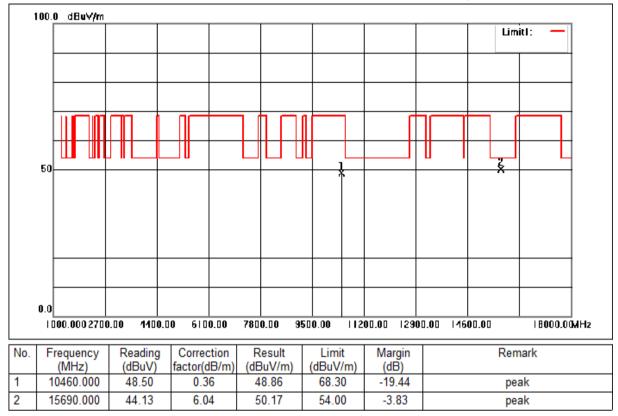
Mode:h; Polarization:Horizontal; Modulation:n; bandwidth:40MHz; Channel:High



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



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Report No.: KSCR220100003202 Page: 116 of 245

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No.	F	requency (MHz)	Reading (dBuV)	Correct			esult BuV/m)	Lin (dBu)		Mar (dE	gin 3)			Rem	nark	
1	1	0360.000	49.17	0.1			9.33	68.	-	-18.				pea	ak	
2	1	5540.000	44.44	5.7	3	5	0.17	54.	00	-3.	83			pea	ak	

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



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		100.000 270	0.00 1100	0.00 610	0.00 7	780	0.00 99	00.00	112	00.00	1290	0.00 14	1600.00		18000.00	MHz
No.	F	requency	Reading				esult	Lir		Mar	gin			Rem	nark	
1		(MHz)	(dBuV)	factor(c			uV/m) 9.49	(dBu 68.		(dE -18					ok	
2		10360.000 49.3 15540.000 44.0		5.7			9.49 0.35	54.		-10				pea pea		
2	1	5540.000	44.02	<b>0.1</b>	5	3	0.55	- 04.	00	-5.	00			pea	an	

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



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		100.0002700	0.00 1100	).00 610	0.00	780	0.00 9!	500.0	0	120	0.00 129	00.00	146	00.00		18000.0	MHz
No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d			esult BuV/m)		.imit 3uV/m	1)	Margin (dB)				Rem	nark	
1	1	0400.000	48.73	0.2			8.97		8.30	1	-19.33				pea	ak	
2	10400.000         48.7           15600.000         44.1			5.8	5	4	9.99	5	4.00		-4.01				pea	ak	

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



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		00.000270	0.00 1100	0.00 610	0.00	780	0.00 99	00.00	112	00.00	1290	0.00 14	600.00		18000.00	MHz
No.	F	requency (MHz)	Reading (dBuV)	Corrector(c			esult BuV/m)	Lin (dBu\		Mar (dE	gin 3)			Rem	nark	
1			49.63	0.2			9.87	68.3		-18				pea	ak	
2	15600.000 44.4			5.8	5	5	0.29	54.0	00	-3.	71			pea	ak	

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

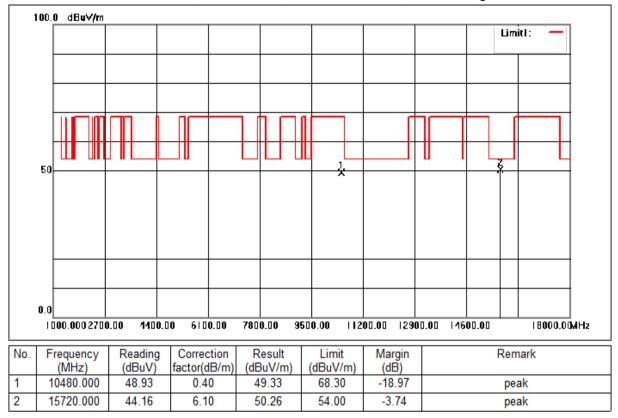


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Mode:h; Polarization:Horizontal; Modulation:c; bandwidth:20MHz; Channel:High



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No.	F	requency	Reading	Correc			esult		Limit	Mar	gin				Rem	nark	
1	1	(MHz) 0480.000	(dBuV) 48.65	factor(d			3uV/m) .9.05	+(	dBuV/m) 68.30	(dl -19	-				pea	ak	
2		5720.000	40.03	6.1			0.11	╀	54.00		89				pea		

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



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		100.000 270	0.00 110	0.00 610	0.00	780	0.00 99	500.	.00  120	00.00	12900	1.00 146	00.00		18000.00	MHz
No.	F	requency	Reading	) Correc			esult		Limit	Marg	gin			Rem	nark	
		(MHz)	(dBuV)				BuV/m)		BuV/m)	(dB						
1		0380.000	48.68	0.2			8.88		68.30	-19.4				pea		
2			44.69	5.7	9	5	0.48		54.00	-3.5	52			pea	ak	

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



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No.	F	requency	Reading				esult		Limit	Març	gin			Rem	nark	
1	1	(MHz) 0380.000	(dBuV) 49.49	factor(c			8uV/m) 9.69	(0	dBuV/m) 68.30	(dE -18.				pe	ak	
2		5570.000	45.06	5.7			0.85		54.00	-3.1				pe		

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



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No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d			esult luV/m)		_imit 3uV/m	n)	Margi (dB)			R	lemark	
1	1	0460.000	49.57	0.3			9.93		8.30	1	-18.3				peak	
2	1	5690.000	44.60	6.0	4	5	0.64	5	54.00		-3.36	6			peak	

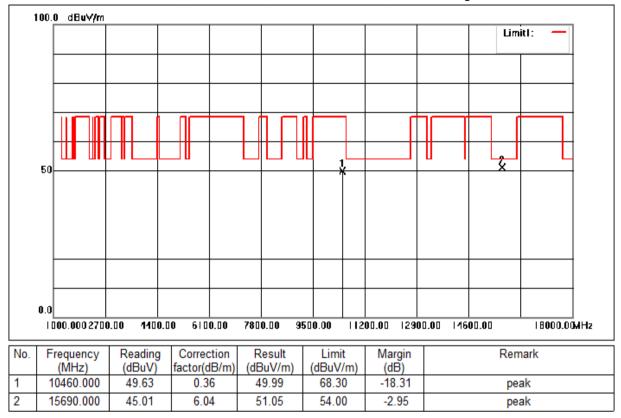
Mode:h; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



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



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No.	F	requency	Reading				esult	Lin		Mar	rgin			Ren	nark	
1	1	(MHz) 0420.000	(dBuV) 49.58	factor(c			uV/m) 9.86	(dBu) 68.		(dl -18				pe	ak	
2			44.61	5.9			0.53	54.			.47			pe		

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



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No.	F	requency (MHz)	Reading (dBuV)	Correct factor(d			esult JuV/m)	Lim (dBu\		Març (dE				Rem	nark	
1	1		48.97	0.2			9.25	68.3		-19.				pea	ak	
2	10420.000         48.9           15630.000         44.4			5.9	2	5	0.33	54.0	00	-3.(	67			pea		

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



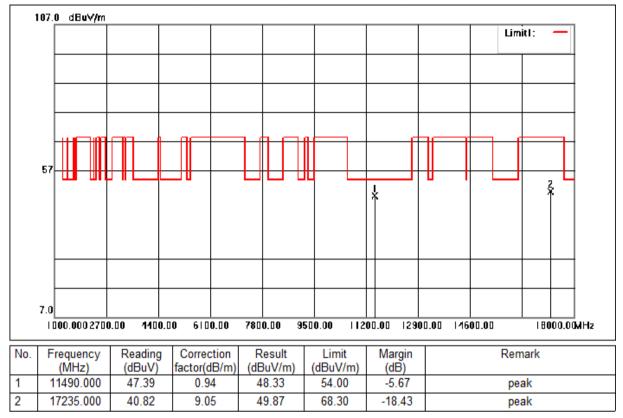
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Mode:i; Polarization:Horizontal; Modulation:a; bandwidth:20MHz; Channel:Low

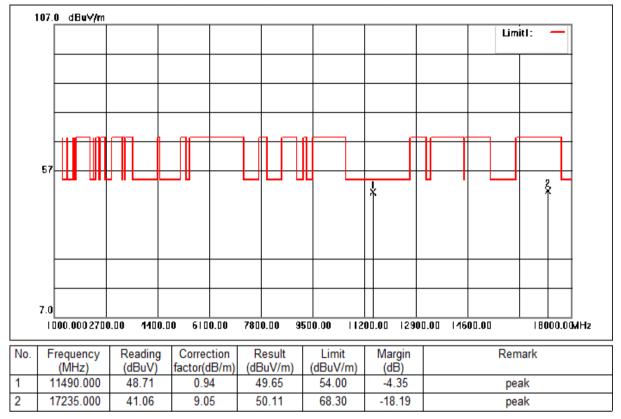


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Mode:i; Polarization:Vertical; Modulation:a; bandwidth:20MHz; Channel:Low

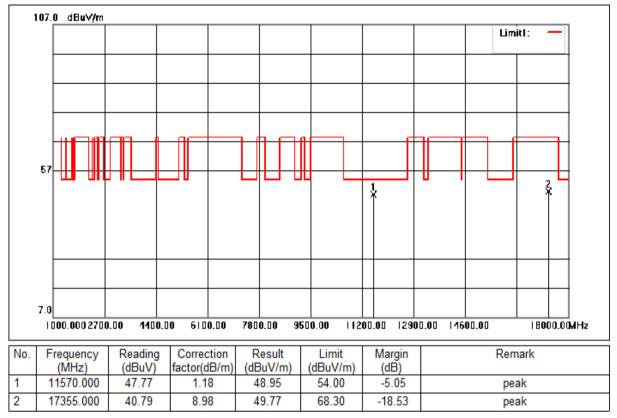


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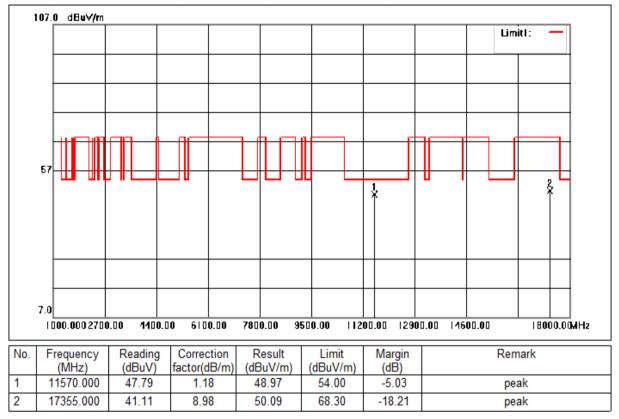
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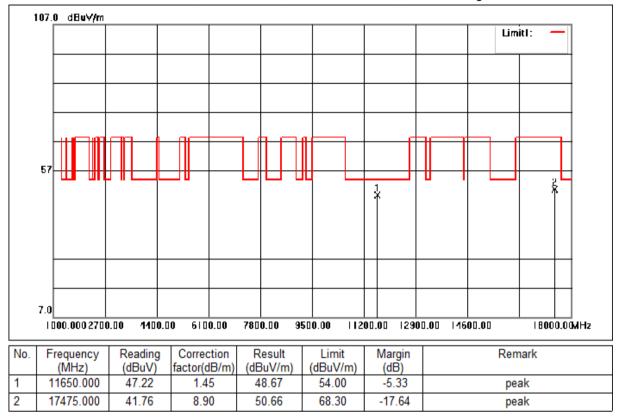
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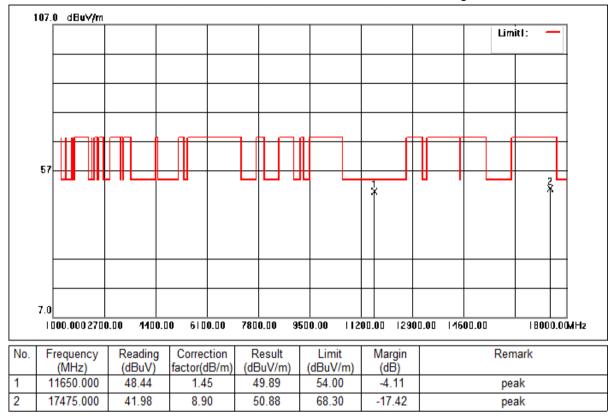
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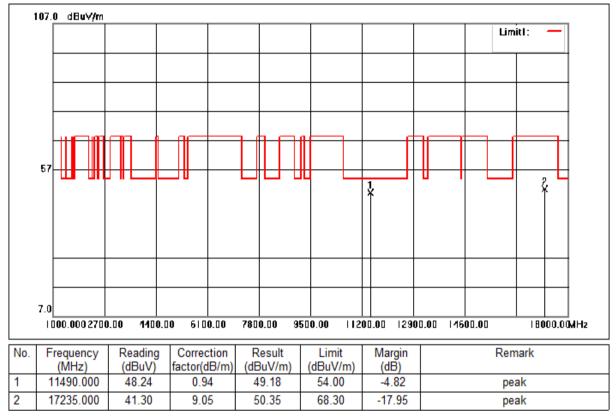
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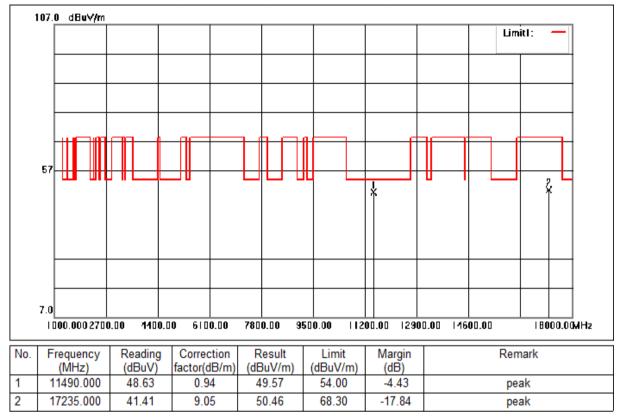
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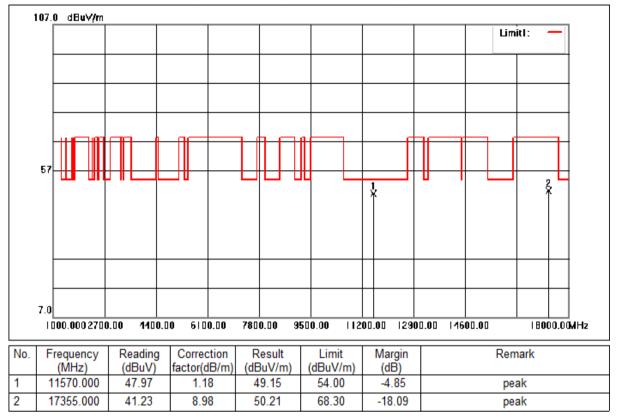
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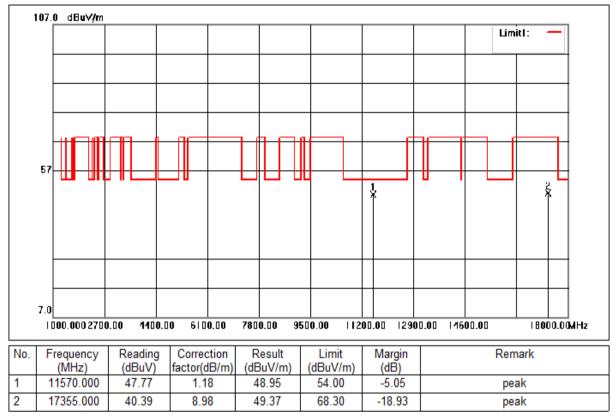
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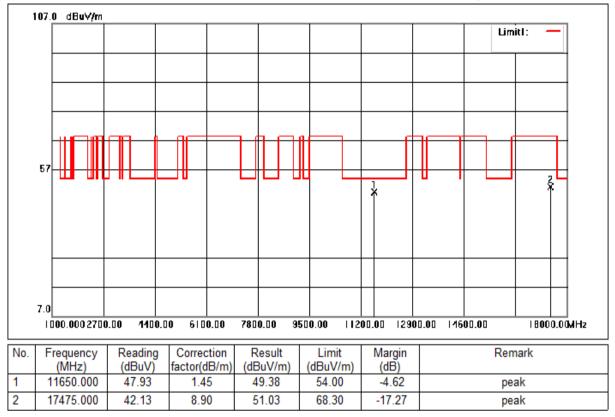


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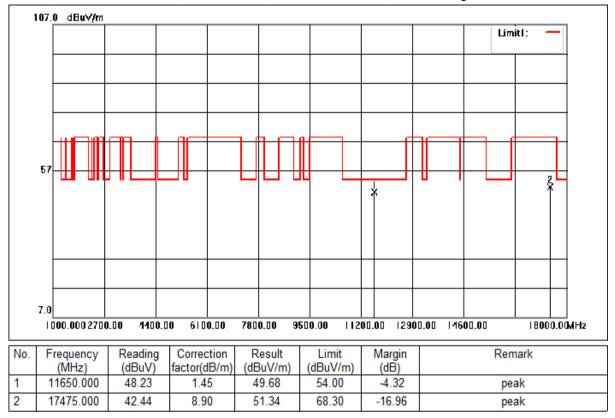
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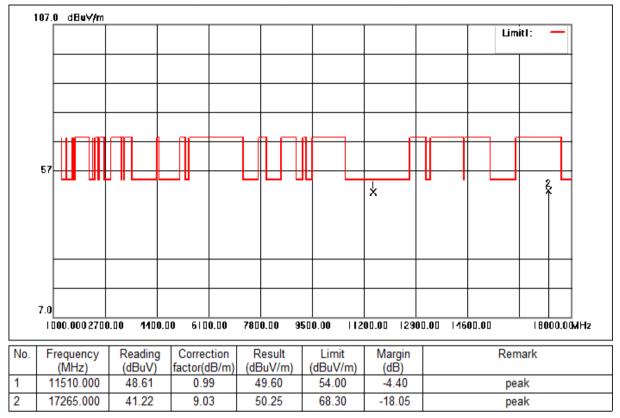
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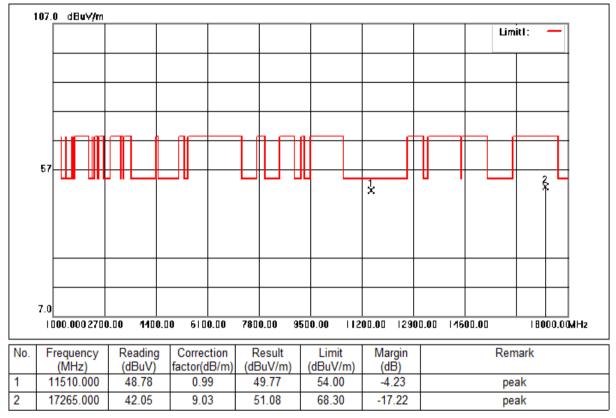


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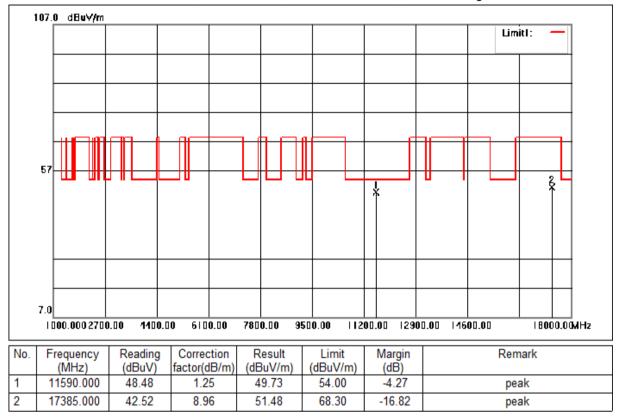
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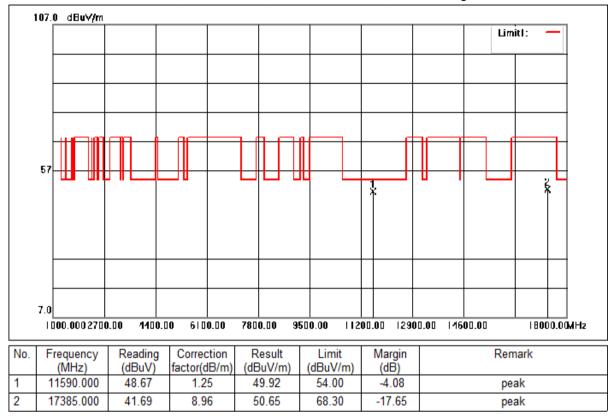
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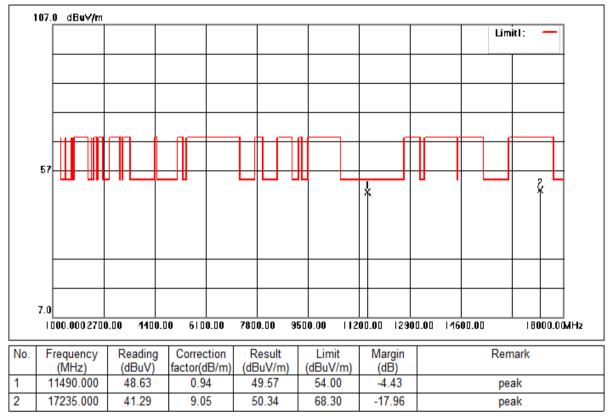
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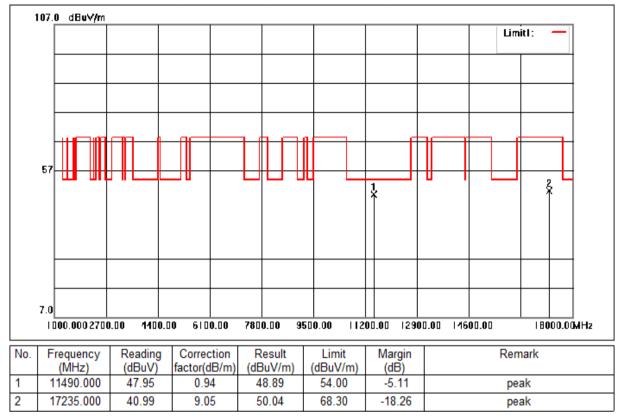
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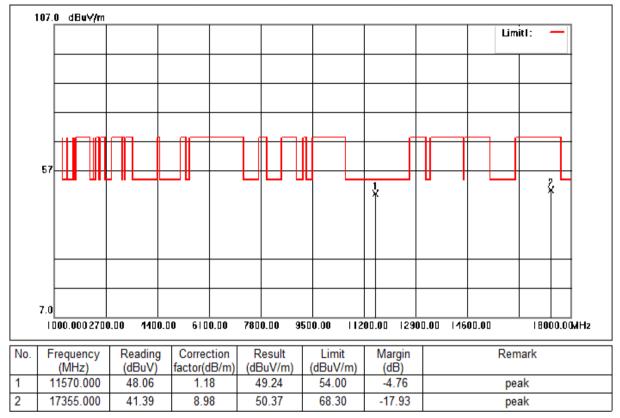
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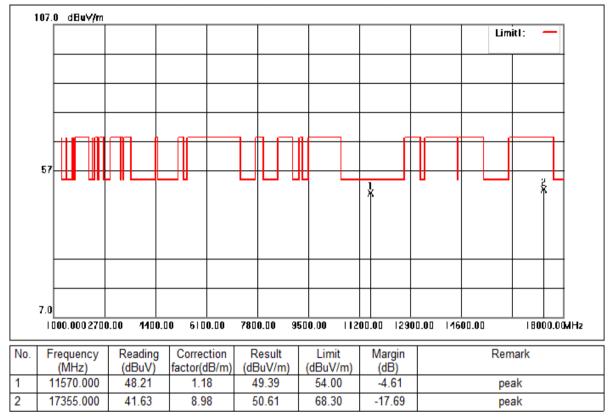
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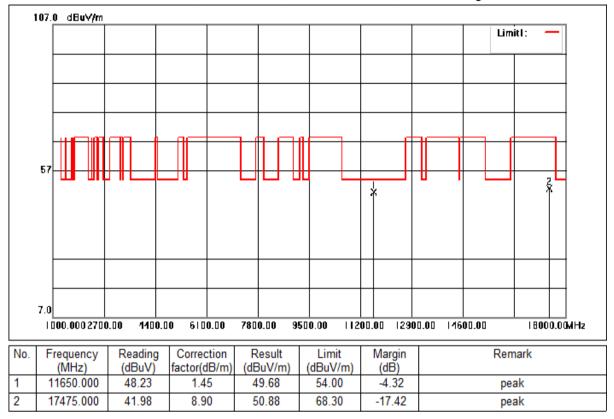
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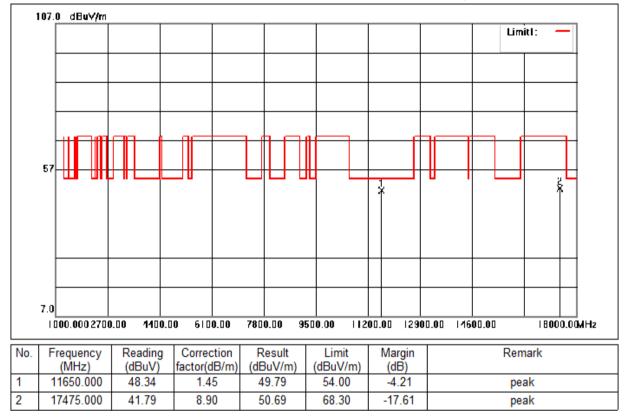
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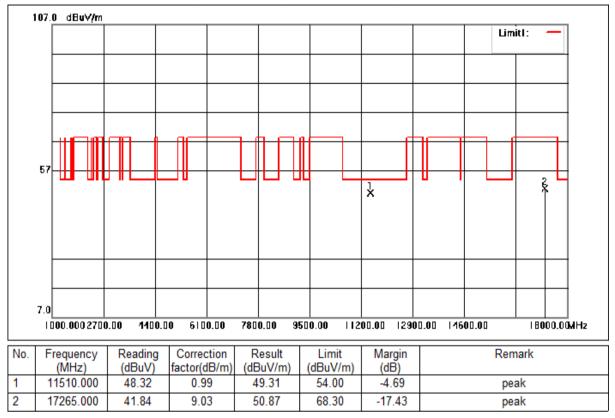
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Mode:i; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:Low

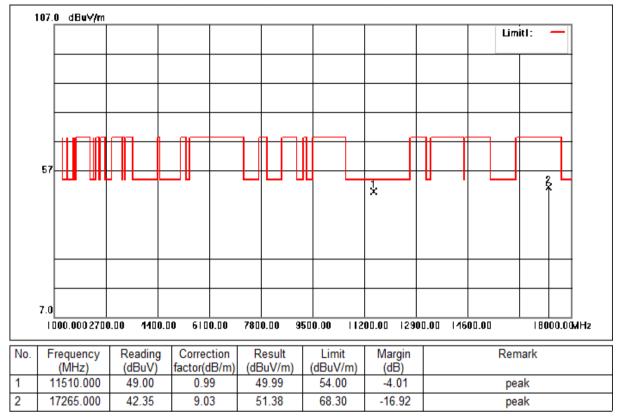


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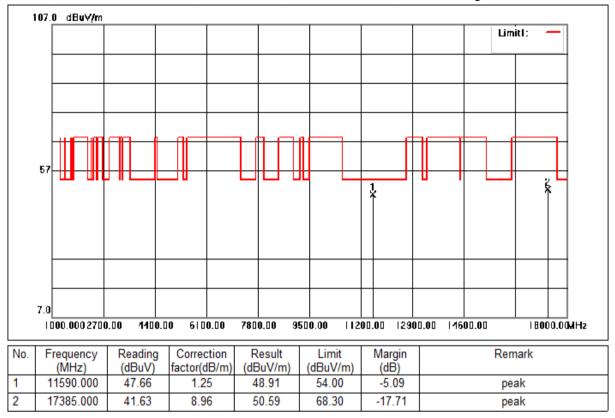
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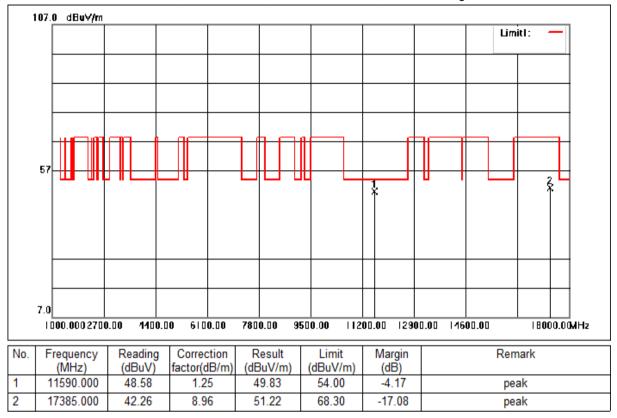
Mode:i; Polarization:Horizontal; Modulation:c; bandwidth:40MHz; Channel:High



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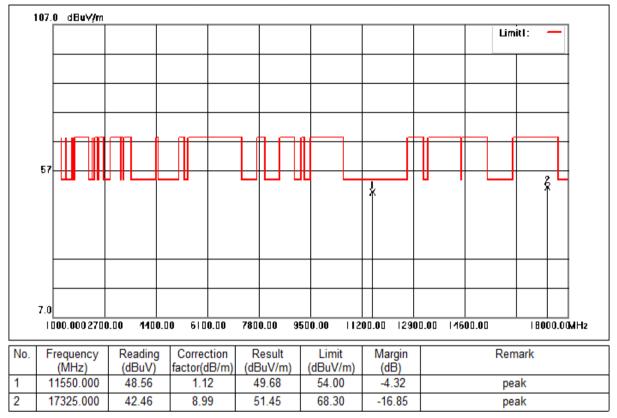
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Mode:i; Polarization:Horizontal; Modulation:c; bandwidth:80MHz; Channel:middle



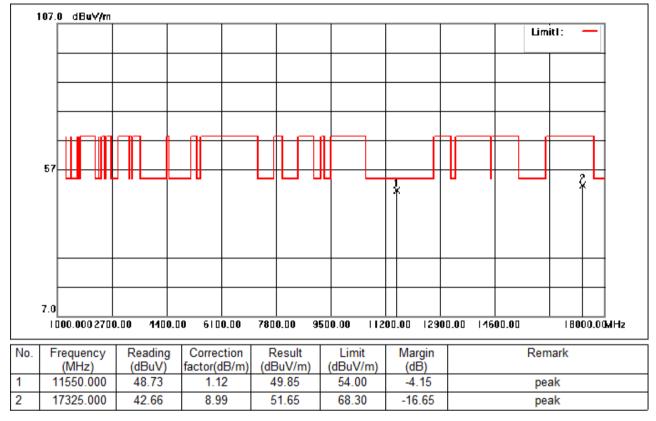
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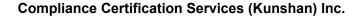
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Mode:i; Polarization:Vertical; Modulation:c; bandwidth:80MHz; Channel:middle



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# 7.8 Radiated Emissions which fall in the restricted bands

Test Requirement47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)Test Method:KDB 789033 D02 II GLimit:Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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



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### 7.8.1 E.U.T. Operation

8.1	E.U.I. Operation	1
	Operating Enviror	nment:
	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
	Pretest these modes to find the worst case:	b:Module MT7668 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(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(VHT40); 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(VHT40); 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(VHT40); 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(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:Module MT7668 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(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.
		h:Module RTL8812CU 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(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. i:Module RTL8812CU 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 c
	The worst case for final test:	b:Module MT7668 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(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(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:Module MT7668 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 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11a; 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(VHT40); 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 cas
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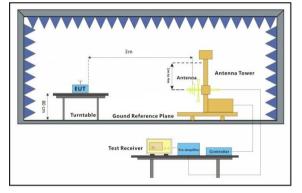


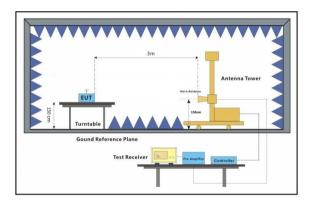
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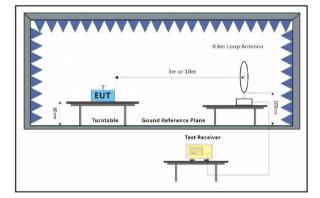
802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

i:Module RTL8812CU 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

## 7.8.2 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

Remark 2: 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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### Above 1GHz

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

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



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



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



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



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1		5145.390	50.11	-	7.85	42.26		54.00	-11.74			AV			
2		5150.000	52.25	-	7.84	44.41		54.00	-9.59			AV	G		
3		5178.760	103.12		7.78	95.34		54.00	41.34			AV	G		

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



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Image: No.         Frequency (MHz)         Reading (Correction factor(dB/m))         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Rem		Limiti Limiti									.0 dBu∀/m	12
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		peak peak										

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



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



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1		5146.050	53.58		-7.8			5.73		54.0			3.27				A١				
2		5150.000	56.20		-7.8			8.36		54.0			5.64				A١				
3		5189.120	95.07		-7.7	6	8	7.31		54.0	00	- 33	3.31				A١	/G			

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



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		500.000 <b>15</b> 7	.00 161:	2.00	1713	.00	178	4.00	18	55.00	492	6.00	4997	.00	506	8.00		<u> </u>	5210	D. <b>OO</b>	MHz
0.	F	requency (MHz)	Reading (dBuV)		orrect tor(dE	tion 3/m)		esult BuV/m	ı)	Lin (dBu\			argin IB)				Ren	narl	k		
		4768.380	58.87		-8.81			0.06		74.			3.94				ре	ak			
		5150.000	55.78		-7.84		4	7.94		74.	00	-2	6.06				ре	ak			
	1	5179.470	96.69		-7.77	7	8	8.92		74.	00	14	1.92				pe	ak			

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



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1		5143.260	65.28	-7.			.42	74.0		-16.58	3			peak		
2		5150.000	66.84	-7.			.00	74.0		-15.00				peak		
3		5179.470	112.78	-7.1	77	10	5.01	74.0	00	31.01				peak		

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



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No.	F	requency	Readi	na	Correc	tion	R	esult		Lim	it	Ma	irgin				Ren	nark			
		(MHz)	(dBu\	V)	factor(d	IB/m)	(dE	BuV/m	)	(dBu∖	//m)	(d	IB)								
1		5146.100	50.6		-7.8			2.78		54.0			1.22				A٧				
2		5150.000	52.5		-7.8			4.75		54.0			.25				A٧				
3		5178.760	103.4	6	-7.7	8	9	5.68		54.0	00	41	1.68				A۷	/G			

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



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		5135.100	59.70	-7.8	8	5	1.82	7	4.00	-2	2.18					ak			
		5150.000	57.49	-7.8			9.65		4.00		4.35				· ·	ak			
I	1	5189.120	90.85	-7.7	6	8	3.09	1 7	4.00	9	.09	1			De	ak			

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



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0.	F	requency (MHz) 5146.050	Reading (dBuV) 66.51	Correct factor(c -7.8	ction IB/m) 35	Resul (dBuV/ 58.66	lt m) S	Limi (dBuV 74.0	it //m) 10	Ma (dl -15	rgin 3) .34	.00	5084.	R	pea	ark k	DO MHz
lo.	F !	requency (MHz)	Reading (dBuV)	Correct factor(c	ction IB/m) 35 34	Resu (dBuV/	lt m) 6	Limi (dBuV	it 1/m) 10	Mar (dl -15 -10	rgin 3)	.00	5084.	R		ark k k	DOM

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
1	5144.590	53.14	-7.85	45.29	54.00	-8.71		AVG
2	5150.000	56.62	-7.84	48.78	54.00	-5.22		AVG
3	5184.740	95.76	-7.76	88.00	54.00	34.00		AVG

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



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



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1500.000 1577	'.UU 1651.L	10 1731.00	1808.00 1	885.00 495		.00 5116.00	5270.00 MHz
Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Re	emark
5136.020	70.35	-7.88	62.47	74.00	-11.53		peak
5150.000	68.84 102.21	-7.84	61.00 94.45	74.00 74.00	-13.00 20.45	F	peak
1	5136.020	Iso0.000 1577.00         1651.0           Frequency (MHz)         Reading (dBuV)           5136.020         70.35	Image: Constraint of the second sec	Image: Constraint of the second sec	Image: Second	Frequency         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dBuV/m)           5136.020         70.35         -7.88         62.47         74.00         -11.53	Iso0.000 1577.00         1651.00         1731.00         1808.00         1885.00         1962.00         5039.00         5116.00           Frequency (MHz)         Reading (dBuV)         Correction factor(dB/m)         Result (dBuV/m)         Limit (dBuV/m)         Margin (dB)         Result (dB)         Result (dB)         Result (dB)         Imit (dB)         Result (dB)         Re

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



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No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	F	Remark
1	5144.490	55.36	-7.85	47.51	54.00	-6.49		AVG
2	5150.000	55.12	-7.84	47.28	54.00	-6.72		AVG
3	5203.780	87.50	-7.71	79.79	54.00	25.79		AVG

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



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No. 1 2	F	requency (MHz)	/ Rea (dE 58	ading BuV)	Correct factor(c	ction JB/m) )3	R (dE 5	lesult BuV/m)	l (dE	.imit 3uV/m)	Mar (df	rgin B) .18	0.00 59		Remark		

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



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



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



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



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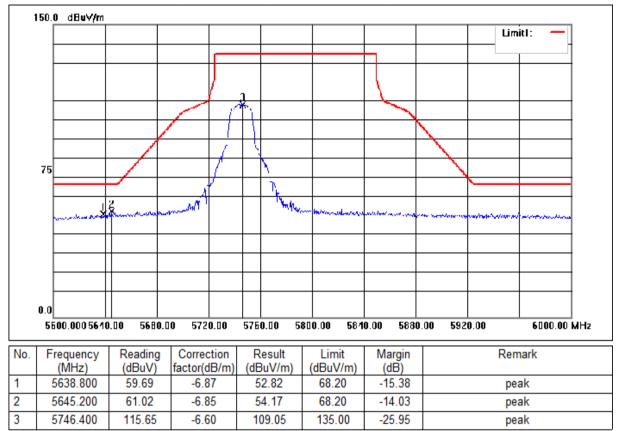
Mode:c; Polarization:Horizontal; Modulation:n; bandwidth:20MHz; Channel:Low



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



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



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



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



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



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



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



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



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



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



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



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



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		5792.800	106.79	-6.4			00.31		135.0			4.69				pe	ak	
	F	5938.800	58.77	-5.	70	5	3.07		68.20	)	-1	5.13				pe	ak	
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Mode:c; Polarization:Vertical; Modulation:c; bandwidth:40MHz; Channel:High



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4	(MHz)	(dBuV)	factor(dB/m)		(dBuV/m)	(dB)			
1	5611.200	58.03	-6.94	51.09	68.20	-17.11		peak	
2	5645.200	57.93	-6.85	51.08	68.20	-17.12		peak	
3	5808.400	85.49	-6.42	79.07	135.00	-55.93		peak	
4	5925.600	58.41	-5.77	52.64	68.20	-15.56		peak	
5	5964.400	57.86	-5.55	52.31	68.20	-15.89		peak	

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



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	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)			-1-	
	5601.200	59.38	-6.97	52.41	68.20	-15.79		pe		
	5614.800	58.51	-6.93	51.58	68.20	-16.62		pe		
	5788.400	102.34	-6.49	95.85	135.00	-39.15		pe		
	5930.800	58.52	-5.74	52.78	68.20	-15.42		pe		
	5941.600	57.84	-5.68	52.16	68.20	-16.04		pe	ak	

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



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).	F	requency (MHz)	Reading (dBuV)	Correction factor(dB/		esult BuV/m)				Remark	
D.	4	requency (MHz) 4845.770 5150.000	Reading (dBuV) 59.18	Correction factor(dB/ -8.71	/m) (dB	esuit BuV/m) 0.47	(dBuV/m) 74.00	(dB) -23.53 -24.16		peak	

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



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		5031.790	59.42		-8.1	1		51.31		74.			2.69				pe	eak			
		5150.000	57.88		-7.8			60.04		74.			3.96				pe	eak			
		5182.310	108.25	5	-7.7	7	1	00.48	Τ	74.	00	20	6.48				pe	eak			

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



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<mark>ا</mark> ٥.	F	requency (MHz)	Reading (dBuV)	9	Correct factor(d			lesult BuV/m	)	Lim (dBu)			argin IB)				Rer	nark			
1	ļ	5141.840	45.87		-7.8	6	3	8.01		54.0	00	-1	5.99				A١	/G			
2		5150.000	45.91		-7.8		3	8.07		54.0	00		5.93				A١	/G			
3	1	5181.600	98.81		-7.7	7	9	1.04	Τ	54.0	00	37	7.04				A١	/G			

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



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	1	500.000 157	1.00 161	2.00 171	3.00	478	4.00 1	<b>855</b> .0	0 492	6.00 499	7.00 508	58.00	521	0.00 I	Hz
No.	F	requency (MHz)	Reading (dBuV)				lesult BuV/m)		Limit BuV/m)	Margin (dB)		Ren	nark		
1		4751.340	59.46	-8.		5	0.67	7	4.00	-23.33		ре	ak		
2		5150.000	55.57	-7.	34	4	7.73	7	4.00	-26.27		ре	ak		
3		5183.730	95.60	-7.	76	8	7.84	7	4.00	13.84		ре	ak		

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



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



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		300.000 131 1			<u> </u>	5.00				10.00	100	0.00	1001		300	0.00					
No.	F	requency (MHz)	Reading (dBuV)	9	Correct factor(d			esult 3uV/m)	)	Lim (dBu\			irgin IB)				Ren	nark			
1		5143.260	46.24		-7.8	6	3	8.38		54.0	)0	-1	5.62				A۱	/G			
2		5150.000	46.45		-7.8	4	3	8.61		54.0	)0	-1	5.39				A۱	/G			
3		5178.760	102.91		-7.7	8	9	5.13		54.0	)0	41	1.13				A۱	/G			

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



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	4	4566.430	59.22	-8.59	50.63	74.00	-23.37	р	eak
	!	5150.000	57.08	-7.84	49.24	74.00	-24.76	p	eak
		5193.500	91.24	-7.75	83.49	74.00	9.49	p	eak

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



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



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	5192.	040	98.60		-7.7	5	9	0.85		54.0	0	- 36	6.85				AV	G		

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



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	4	4812.400	59.26	-8.83		50.4	-	74.0		<u> </u>	.57			pea	ak		
	!	5150.000	56.28	-7.84	Ļ	48.4	4	74.0	0	-25	.56			pea	ak		
	1	5187.990	95.71	-7.76	5	87.9	)5	74.0	0	13	.95			pea	ak		

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



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



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1		5145.390	46.47		-7.8			8.62		54.0	0	-1	5.38				A١				
2		5150.000	46.56		-7.8			8.72		54.0	0	-1	5. <b>28</b>				A١				
3		5178.760	102.89		-7.7	8	9	5.11		54.0	0	41	1.11				A١	/G			

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



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2		5150.000	57.		-7.8			9.31		74.00		-24.					· ·	ak			
}	1	5188.390	91.	73	-7.3	76	8	3.97		74.00	)	9.9	97				ре	ak			

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



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



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1	5146.780	47.86	-7.85	40.01	54.00	-13.99		AVG
2	5150.000	49.34	-7.84	41.50	54.00	-12.50		AVG
3	5194.960	98.71	-7.74	90.97	54.00	36.97		AVG

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



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		5150.000 5193.770	55.59 87.35		-7.8 -7.7			7.75 9.60		74.00 74.00		5.25 .60				pe pe			

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



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



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lo.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	R	emark
	5142.950	49.10	-7.86	41.24	54.00	-12.76		AVG
	5150.000	50.72	-7.84	42.88	54.00	-11.12		AVG
}	5216.870	93.90	-7.66	86.24	54.00	32.24	,	AVG

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



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		5636.000 5751.200	57.85 92.41		-6.8 -6.5			50.97 35.83		68.1 135.			17.23 19.17				pea	ak	

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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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



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	1	5937.200	58.57	-5.	70	- 52	2.87	68	.20	-1	5.33				peak		
$\rightarrow$		5972.000	58.04	-5.			2.52		.20		5.68				peak		

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



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	560	00.000564	10.00 568	0.00 572	0.00	5760	).0 <b>0</b> 8	580	0.00 584	0.00 58	80.00	5920	0.00		6000.0	LI D <b>MHz</b>
No.		equency					esult	Τ	Limit	Margin				Rem	nark	
4		(MHz)	(dBuV)	<b>`</b>			uV/m)	(	dBuV/m)	(dB)						
1		634.400	57.59	-6.8			0.71	+	68.20	-17.49				pea		
2		641.200	58.09	-6.8			1.22	_	68.20	-16.98				pea		
3		791.200	90.22	-6.4			3.74	_	135.00	-51.26				pea		
4		941.200	57.82	-5.6			2.14	$\perp$	68.20	-16.06				pea		
5	5	995.200	57.88	-5.3	59	52	2.49		68.20	-15.71				pea	ak	

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



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۱o.	Frequency	Reading	Correction	Result	Limit	Margin		Rem	nark	
	(MHz)	(dBuV)	factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)				
	5640.400	58.24	-6.87	51.37	68.20	-16.83		pea		
2	5644.800	59.30	- <mark>6.8</mark> 5	52.45	68.20	-15.75		pea	ak	
}	5760.800	107.65	-6.56	101.09	135.00	-33.91		pea	ak	
Ļ	5939.600	58.13	-5.69	52.44	68.20	-15.76		pea	ak	
5	5969.200	58.06	-5.53	52.53	68.20	-15.67		pea	ak	

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



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### 7.9 Frequency Stability

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

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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#### 7.9.1 E.U.T. Operation

9.1	E.U.I. Operation	
	Operating Enviror	nment:
	Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
	Pretest these modes to find the worst case:	b:Module MT7668 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); 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.
		c:Module MT7668 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(VHT40); 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
		h:Module RTL8812CU 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
		i:Module RTL8812CU 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(VHT80). Only the data of worst case is recorded in the report.
	The worst case for final test:	b:Module MT7668 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(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.
		c:Module MT7668 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 802 MCS0 is the worst case 0; IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802.11ac(VHT40); data rate 802 MCS0 is the worst case 0; IEEE 802 MCS0 is 0; IEE 802 MCS0 is 0;
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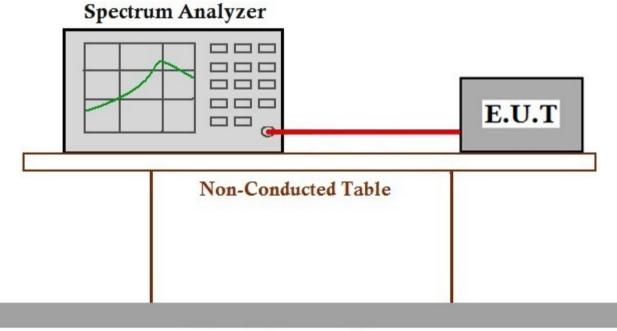


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802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU TX mode (Band 1)\_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

i:Module RTL8812CU 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 is recorded in the report.

#### 7.9.2 Test Setup Diagram

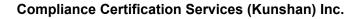


## **Ground Reference Plane**

#### 7.9.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu







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### 7.10 99% Bandwidth

**Test Requirement** Test Method:

**RSS-Gen Section 6.7** ANSI C63.10 Section 6.9.3

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

Operating Environment:

Operating Enviro	onment:
Temperature:	24 °C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar
Pretest these modes to find the worst case:	b:Module MT7668 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:Module MT7668 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
	h:Module RTL8812CU 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); 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(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case is recorded in the report.
	i:Module RTL8812CU 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(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:Module MT7668 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(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.
	c:Module MT7668 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
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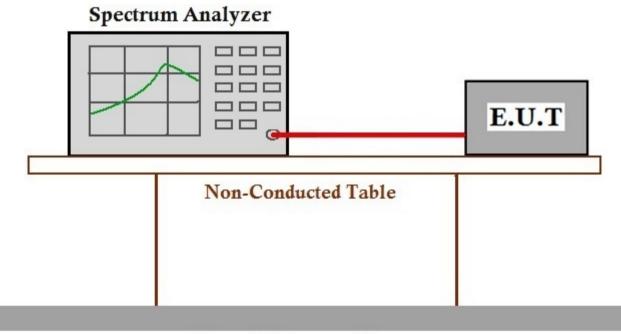


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worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report. h:Module RTL8812CU 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 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); 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(VHT40); 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(VHT40); 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(VHT40); 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.

i:Module RTL8812CU 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(VHT40); 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(VHT40); 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.

#### 7.10.2 Test Setup Diagram



## **Ground Reference Plane**

#### 7.10.3 Measurement Procedure and Data

The detailed test data see: Appendix B for-KSCR220100003202AT-FCC-5G-MT7668 Appendix B for-KSCR220100003202AT-FCC-5G-RTL8812cu





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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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