TEST REPORT

Report No.: CHTEW21100006

Report Verification:

Project No...... SHT2107003404EW

FCC ID.....: 2AYEZ-TE620

Applicant's name......: Telo Communication (Shenzhen) Co., Ltd

Address....... 6/F, No.42 Liuxian 1st Road, Bao'an District, Shenzhen, China

Test item description: TE620

Trade Mark TELOX, Telo Systems

Model/Type reference...... TE620

Listed Model(s) TELOX-TE620, Telo-TE620, TE620A, TE620B, TE620C,

TE620D,TE620E,TE620F,TE620G,TE620H,TE620J,TE620K,TE620L,TE620M,TE620Q,TE620R,TE620S,TE620T,TE620U,

TE620V,TE620X,TE620Y

Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample...... Sep. 10, 2021

Date of testing...... Sep. 11, 2021- Oct. 08, 2021

Date of issue...... Oct. 09, 2021

Result.....: PASS

Compiled by

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Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd.

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-10-09	We have spot check test on the product, and the result have no major different from the value in the module report, which meets the requirements of reference module certification from KDB 484596.

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2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result
5.1	Antenna Requirement	15.203/15.247(c)	PASS*
5.2	AC Conducted Emission	15.207	PASS
5.3	Peak Output Power	15.247(b)(3)	PASS*
5.4	Power Spectral Density	15.247(e)	PASS
5.5	6dB Bandwidth	15.247(a)(2)	PASS*
5.6	99% Occupied Bandwidth	-	PASS ^{*1}
5.7	Duty cycle	-	PASS*1
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS*
5.9	Radiated Band Edge Emission	15.205/15.209	PASS
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS

Note:

- The measurement uncertainty is not included in the test result.
- *1: No requirement on standard, only report these test data.
- * reference to module report , which FCC ID is XMR202005SC200RNA

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3. **SUMMARY**

3.1. Client Information

Applicant:	Telo Communication (Shenzhen) Co., Ltd	
Address:	6/F, No.42 Liuxian 1st Road, Bao'an District, Shenzhen, China	
Manufacturer: Telo Communication (Shenzhen) Co., Ltd		
Address:	6/F, No.42 Liuxian 1st Road, Bao'an District, Shenzhen, China	

3.2. Product Description

Name of EUT:	TE620
Trade Mark:	TELOX, Telo Systems
Model No.:	TE620
Listed Model(s):	TELOX-TE620,Telo-TE620, TE620A, TE620B, TE620C, TE620D, TE620E, TE620F, TE620G, TE620H, TE620J, TE620K, TE620L, TE620M, TE620Q, TE620R, TE620S, TE620T, TE620U, TE620V, TE620X, TE620Y
Power supply:	DC 3.8V
Battery Information:	DC 3.8V; 5000mAh
Adapter Information:	Model: SR-D505 Input: AC100-240V, 50/60Hz, 0.3A Output: 5.0Vdc, 2.0A Manufacturer:SHENZHEN SNROX ELECTRONIC CO.,LTD
Hardware version:	TE620 V2.2
Software version:	TE620_INT_V7_20210902

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	0.5dBi

Note:

^{*2:} only show the RF function associated with this report.

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3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
Connect information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn		
Qualifications	Type Accreditation Numb		
Qualifications	FCC	762235	

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4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

802.11b/802.11	802.11b/802.11g/802.11n(HT20)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2412	03	2422	
02	2417	04	2427	
· :	· :	. :	. :	
06	2437	06	2437	
· :	· :	. :	. :	
10	2457	08	2447	
11	2462	09	2452	

4.2. Descriptions of Test mode

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

Modulation	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0

4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit.

The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

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4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Wheth	Whether support unit is used?				
✓	No				
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
2					

4.5. Testing environmental condition

Туре	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.7. Equipment Used during the Test

•	Conducted E	mission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2021/9/13	2022/9/12
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2021/9/13	2022/9/12
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/9/13	2022/9/12
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/9/13	2022/9/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/9/13	2022/9/12
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test sit	te				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2022/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/9/14	2022/9/13
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2021/02/26	2022/02/25
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2022/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/4/27	2023/4/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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•	RF Conducted Method					
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2020/10/19	2021/10/18
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18
•	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18
0	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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

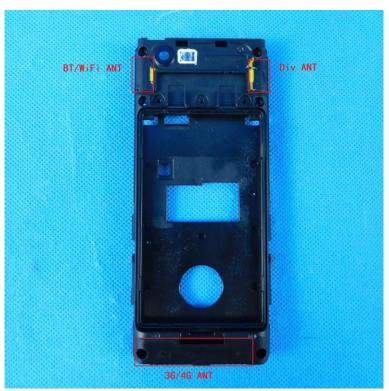
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

$oxed{oxed}$ Passed	☐ Not Applicable
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The antenna type is a PIFA antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



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5.2. AC Conducted Emission

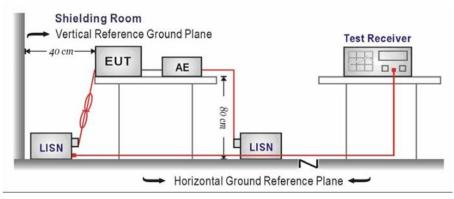
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragues ov range (MHz)	Limit (d	BuV)
Frequency range (MHz)	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

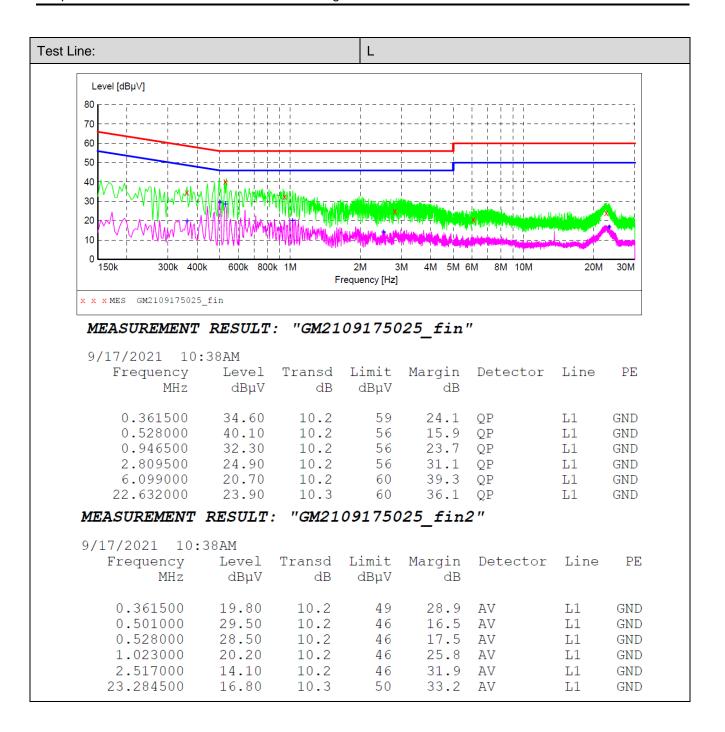
- 1. The EUT was setup according to ANSI C63.10 requirements.
- The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

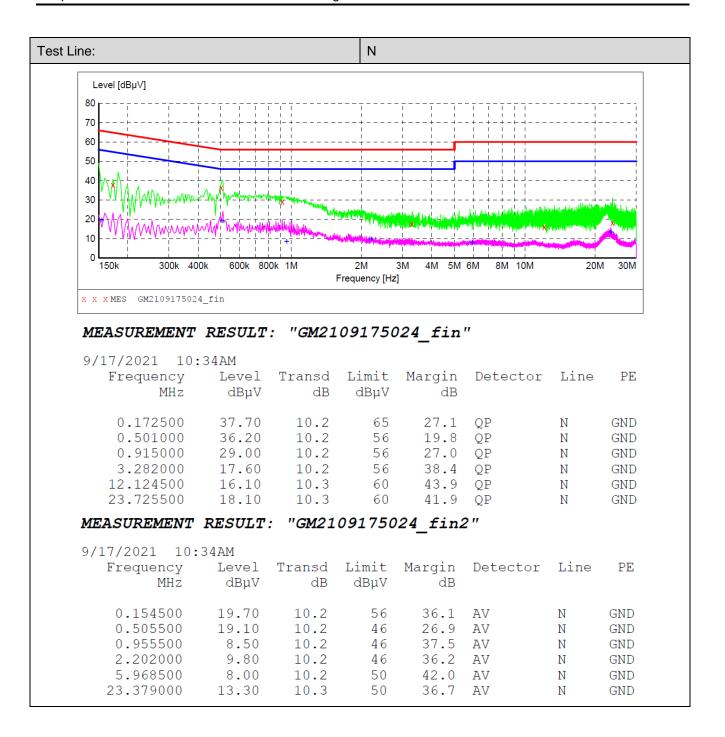
Please refer to the clause 4.2

TEST RESULT

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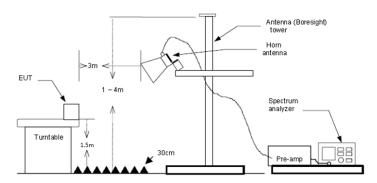
5.3. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Note:

- 1) Level= Reading + Factor; Factor = Antenna Factor + Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

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Туре		802.11	lb	Test cl	nannel	CH	H01		Polarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/		Over limi	
	1 2	2310.00 2390.01	37.69 39.29	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	53.52 55.09		20.48 18.91	
		Frequency MHz	Reading dBuV/m	Antenna dB	dB	Preamp dB	Aux dB	Level dBuV/m		ver imit	Remark
		2310.00 2390.01				37.56 37.45	20.00 20.00			.01 .86	Average Average
Туре		802.11	lb	Test cl	nannel	CH	H01		Polarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/		Over limi	
	1 2	2310.00 2390.01	40.14 39.57	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	55.97 55.37		-18.0 -18.6	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m)ver limit	Remark
	1 2	2310.00 2390.01		27.96 27.72		37.56 37.45	20.00 20.00			.84 5.65	Average Average

Туре		802.11	b	Test ch	annel	CH	111	Pol	arity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49 2500.00	31.32 32.00	27.43 27.40	5.64	37.26 37.26	20.00	47.13		-6.87 -6.20	Average
		2500.00	52.00	27.40	5.00	37.20		47.00	54.00	-0.20	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1	2483.49	38.22	27.43	5.64	37.26	20.00	54.03	74.00	-19.97	Peak
	2	2500.00	39.10	27.40	5.66	37.26	20.00	54.90	74.00	-19.10	Peak
Туре		802.11	b	Test ch	annel	CH	111	Pol	arity		Vertical
	Mark	Frequency	Reading	Antenna				Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	2	2483.49 2500.00	32.16 31.65	27.43 27.40	5.64 5.66	37.26 37.26	20.00 20.00		54.00 54.00	-6.03 -6.55	
	Mark	Frequency	Reading	Antenna				Level	Limit	0ver	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m		
	1 2	2483.49 2500.00	38.60 38.20	27.43 27.40	5.64 5.66	37.26 37.26	20.00 20.00	54.41 54.00	74.00 74.00	-19.59 -20.00	

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Туре		802.11	g	Test ch	nannel	CH	101	F	Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01	27.04 28.45	27.96 27.72		37.56 37.45	20.00 20.00		7 54.00 -11.13 5 54.00 -9.75	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	p Aux dB	Level dBuV/m	Limit Ove n dBuV/m lim	
	1 2	2310.00 2390.01	38.86 41.27	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	54.69 57.07	74.00 -19.3 74.00 -16.9	
Туре		802.11	g	Test ch	nannel	CH	101	F	Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01	27.12 27.99	27.96 27.72			20.00 20.00		5 54.00 -11.05 9 54.00 -10.21	Average Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/		
	1 2	2310.00 2390.01	38.57 41.65	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	54.40 57.45		

Туре		802.11	1g	Test cl	hannel	CH	1 11	P	Polarity		Horizontal
,	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over	Remark
	1	2483.49	45.67	27.43	5.64	37.26	20.00	61.48	74.00	-12.52	Peak
	2 3	2484.35 2500.00	49.99 37.51	27.43 27.40	5.64 5.66	37.26 37.26	20.00 20.00	65.80 53.31		-8.20 -20.69	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	31.56	27.43	5.64	37.26	20.00		54.00		Average
	2	2500.00	26.71	27.40	5.66	37.26	20.00	42.51	54.00	-11.49	Average
Туре		802.11	1g	Test cl	hannel	CH	1 11	P	Polarity		Vertical
Туре	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark
Туре	Mark 1		Reading dBuV/m	Antenna dB					Limit		Remark t
Type		Frequency MHz	Reading dBuV/m 47.24	Antenna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit dBuV/n 74.00	n limi	Remark t Peak
Туре	1	Frequency MHz 2483.49	Reading dBuV/m 47.24	Antenna dB 27.43	Cable dB 5.64	Pream dB 37.26	p Aux dB 20.00	Level dBuV/m 63.05	Limit dBuV/n 74.00	n limi -10.95	Remark t Peak Peak
Туре	1 2 3	Frequency MHz 2483.49 2483.96	Reading dBuV/m 47.24 48.00 37.61	Antenna dB 27.43 27.43	Cable dB 5.64 5.64 5.66	Pream dB 37.26 37.26 37.26	p Aux dB 20.00 20.00 20.00	Level dBuV/m 63.05 63.81	Limit dBuV/r 74.00 74.00	limi -10.95 -10.19	Remark t Peak Peak
Туре	1 2 3	Frequency MHz 2483.49 2483.96 2500.00 Frequency	Reading dBuV/m 47.24 48.00 37.61	Antenna dB 27.43 27.43 27.40 Antenna dB	Cable dB 5.64 5.64 5.66 Cable dB 5.64	Pream dB 37.26 37.26 37.26	p Aux dB 20.00 20.00 20.00	Level dBuV/m 63.05 63.81 53.41 Level dBuV/m 46.82	Limit dBuV/n 74.00 74.00 74.00 Limit dBuV/m 54.00	1 limi -10.95 -10.19 -20.59	Remark t Peak Peak Peak

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Туре		802.11	n(HT20)	Test c	hannel	С	H01		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prear dB	np Aux dB	Level dBuV/		
	1	2310.00 2390.01	38.62 41.68	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	54.45 57.48	74.00 -19.5 74.00 -16.5	
		Frequency MHz	Reading /	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
		2310.00 2390.01		27.96 27.72		37.56 37.45	20.00 20.00		98 54.00 -11.02 02 54.00 -9.98	Average Average
Туре		802.11	n(HT20)	Test c	hannel	С	H01		Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prea dB	mp Aux dB	Leve:		
	1 2	2310.00 2390.01	38.20 41.50	27.96 27.72	5.43 5.53	37.56 37.45		54.03 57.30		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01		27.96 27.72		37.56 37.45	20.00 20.00		82 54.00 -11.18 72 54.00 -10.28	Average Average

Туре		802.11	n(HT20)	Test c	hanne	C	H11	P	olarity	Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	t
	1	2483.49	33.53	27.43	5.64	37.26	20.00	49.34	54.00 -4.66	Average
	2	2500.00	26.53	27.40	5.66	37.26	20.00	42.33	54.00 -11.67	Average
	Mark	Frequency	Reading	Antenna	Cabl	e Prea	mp Aux	Level	Limit Ov	er Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m li	mit
	1	2483.49	49.71	27.43	5.64	37.26	20.00	65.52	74.00 -8.	48 Peak
	2	2483.79	52.16	27.43	5.64	37.26	20.00	67.97	74.00 -6.	03 Peak
	3	2500.00	38.36	27.40	5.66	37.26	20.00	54.16	74.00 -19.	84 Peak
Туре		802.11	n(HT20)	Test c	hanne	l C	:H11	Р	olarity	Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	Δυν	Level	Limit Over	Remark
	Mark	Frequency MH7	_					Level dBuV/m	Limit Over	
		MHz	dBuV/m	dB	dB	dB .	dB	dBuV/m	dBuV/m limi	t
	1	MHz 2483.49	dBuV/m 32.41	dB 27.43	dB 5.64		dB 20.00	dBuV/m 48.22	dBuV/m limi	t Average
	1 2	MHz 2483.49	dBuV/m 32.41 26.59	dB 27.43 27.40	dB 5.64 5.66	dB 37.26 37.26	dB 20.00 20.00	dBuV/m 48.22 42.39	dBuV/m limi 54.00 -5.78	t Average Average
	1 2	MHz 2483.49 2500.00	dBuV/m 32.41 26.59	dB 27.43 27.40	dB 5.64 5.66	dB 37.26 37.26	dB 20.00 20.00	dBuV/m 48.22 42.39	dBuV/m limi 54.00 -5.78 54.00 -11.61 Limit Ov	t Average Average
	1 2	MHz 2483.49 2500.00 Frequency	dBuV/m 32.41 26.59 Reading dBuV/m	dB 27.43 27.40 Antenna	dB 5.64 5.66 Cable	dB 37.26 37.26 Prea dB	dB 20.00 20.00 mp Aux dB	dBuV/m 48.22 42.39 Level	dBuV/m limi 54.00 -5.78 54.00 -11.61 Limit Ov	t Average Average er Remark
	1 2 	MHz 2483.49 2500.00 Frequency MHz	dBuV/m 32.41 26.59 Reading dBuV/m	dB 27.43 27.40 Antenna dB	dB 5.64 5.66 Cable	dB 37.26 37.26 Prea dB	dB 20.00 20.00 mp Aux dB 20.00	dBuV/m 48.22 42.39 Level dBuV/m	dBuV/m limi 54.00 -5.78 54.00 -11.61 Limit Ov dBuV/m li	t Average Average er Remark mit 89 Peak

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Туре		802.11	n(HT40)	Test cl	nannel	C	CH03		Polarity		Horizontal
		equency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	np Aux dB	Level dBuV/r		Over	
	1 231	0.00	37.77	27.96	5.43	37.56	20.00	53.60	74.00 -2	20.40	Peak
	2 238	9.76	40.59	27.72	5.53	37.45	20.00	56.39	74.00 -1	17.61	Peak
	3 238	9.99	38.45	27.72	5.53	37.45	20.00	54.25	74.00 -1	19.75	Peak
	Mark F	requency MHz	Reading dBuV/m		Cable dB	Pream dB	p Aux dB	Level dBuV/m		ver imit	Remark
	1 23	10.00	-			37.56	20.00	-	76 54.00 -11		Average
			27.08	27.72	5.53	37.45			88 54.00 -11		
Туре		802.11	n(HT40)	Test cl	hannel	C	CH03		Polarity		Vertical
	Mark F	requency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prea dB	imp Aux dB	Level dBuV/		Over	
	1 23	10.00	-		5.43	37.56		53.83		20.17	
				27.88	5.45	37.54		57.27		16.73	
	3 23	89.99	38.20	27.72	5.53	37.45	20.00	54.00	74.00 -	20.00) Peak
	Mark F	requency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m		ver imit	Remark
	1 23	10.00	27.07	27.96	5.43	37.56	20.00	42.9	90 54.00 -11	.10	Average
	2 23	89.99	26.96	27.72	5.53	37.45	20.00	42.7	76 54.00 -11	.24	Average

Туре		802.11	n(HT40)	Test c	hannel	Cl	H09	Р	olarity	Horizontal
	Mark	1	Reading	Antenna	Cable			Level	Limit Over	
	1	MHz 2483.50	dBuV/m 37.92	dB 27.43	dB 5.64	dB 37.26	dB 20.00	dBuV/m 53.73	dBuV/m limi 74.00 -20.27	7 Peak
	2 	2500.00	37.87	27.40	5.66	37.26	20.00	53.67	74.00 -20.33	B Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1	2483.50	26.78	27.43		37.26	20.00		54.00 -11.41	Average
	2	2500.00	26.62	27.40	5.66	37.26	20.00	42.42	54.00 -11.58	Average
Туре		802.11	n(HT40)	Test c	hannel	Cl	H09	P	Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Over	
	1	2483.50	38.66	27.43	5.64	37.26	20.00	54.47	74.00 -19.5	3 Peak
	2	2500.00	38.94	27.40	5.66	37.26	20.00	54.74	74.00 -19.20	5 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2483.50 2500.00	26.81 26.71	27.43 27.40		37.26 37.26	20.00 20.00		54.00 -11.38 54.00 -11.49	Average Average

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5.4. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

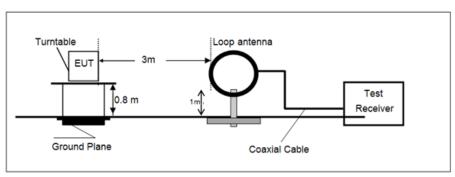
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3) = Limit dBuV/m @300m +80, Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3) = Limit dBuV/m @30m + 40.

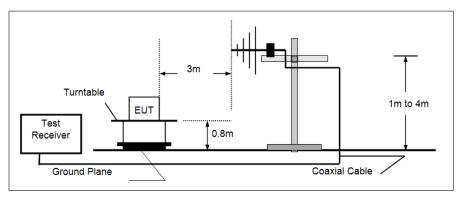
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

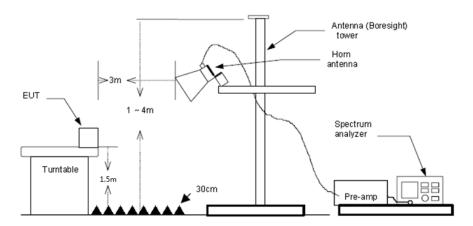


30 MHz ~ 1 GHz



Above 1 GHz

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TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

Note:

- Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

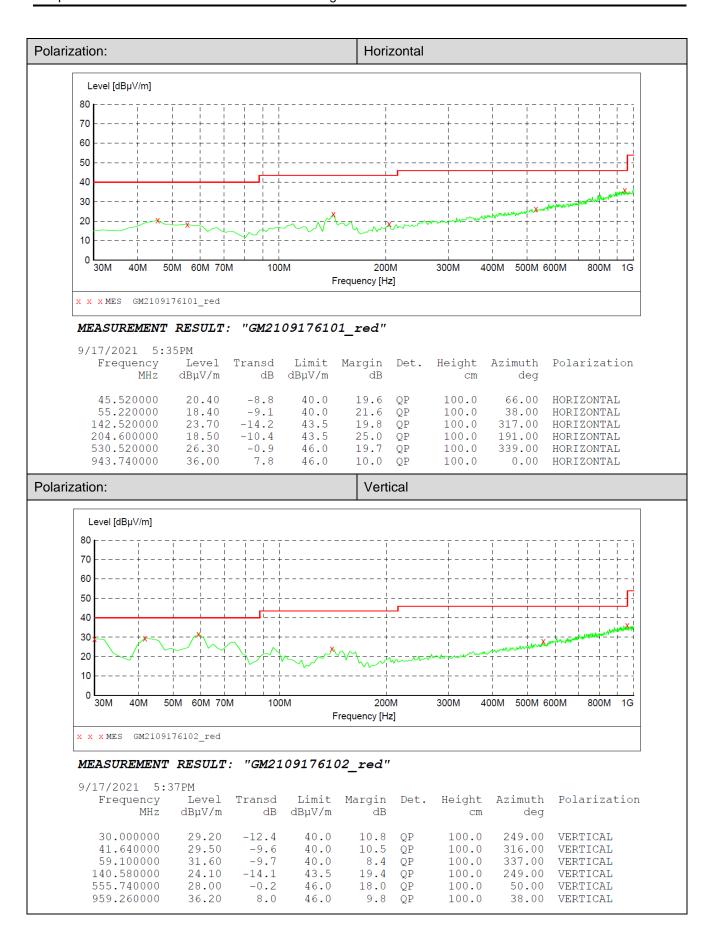
TEST DATA FOR 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

TEST DATA FOR 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.

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TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.11b		Test channel	С	CH01		Polarity	Horizontal
	Mark 1 2	Frequency MHz 3143.98 4821.76	Readin dBuV/ 40.25 37.24	m dB 29.00 6 31.40 8	able dB 5.37	dB 37.21 35.24	Leve dBuV/ 38.41 41.90	m dBuV/m lin 74.00 -35. 74.00 -32.	nit .59 Peak .10 Peak
	3 4	8042.90 11486.41	33.56 33.36		1.02 2.73	33.31 36.38	48.46 50.57		.54 Peak .43 Peak
Туре	<u> </u>	802.11b	33.30	Test channel		CH01	30.37	Polarity	Vertical
Турс		002.116							· · · · · · · · · · · · · · · · · · ·
	Mark	Frequency MHz	Readir dBuV,	/m dB	Cable dB	dB	Leve dBuV,	/m dBuV/m li	mit
	1 2	3135.99 5762.24	40.30 40.12		6.36 9.57	37.25 34.86	38.41 46.75		.59 Peak .25 Peak
	3	8063.40	32.44		1.08	33.32	47.40		.60 Peak
	4	11370.05	32.97		2.68	36.45	49.74		.26 Peak
Туре		802.11b		Test channel	C	CH06		Polarity	Horizontal
	Mark	Frequency	Readir	ng Antenna (Cable	Preamp	Leve	el Limit Ove	er Remark
	rial K	MHz	dBuV/	•	dB	dB	dBuV/		
	1	3143.98	40.29		6.37	37.21	38.45		.55 Peak
	2	5086.52	34.92		8.92	35.46	40.58		.42 Peak
	3 4	8083.96 11370.05	32.62 32.54		1.15 2.68	33.32 36.45	47.65 49.31		.35 Peak .69 Peak
	4		32.34				49.31		
Type		000 441							
ı ypc		802.11b		Test channel	C	CH06		Polarity	Vertical
1 900	Mark	Frequency	Readin	ng Antenna (Cable	Preamp	Leve	l Limit Ove	r Remark
1 100		Frequency MHz	dBuV/	ng Antenna ('m dB	Cable dB	Preamp dB	dBuV/	l Limit Ove m dBuV/m lim	er Remark
1 900	1	Frequency MHz 3151.99	dBuV/ 39.31	ng Antenna ('m dB 29.00 6	Cable dB 6.38	Preamp dB 37.18	dBuV/ 37.51	l Limit Ove m dBuV/m lim 74.00 -36.	er Remark nit 49 Peak
- I ypo		Frequency MHz 3151.99 5762.24	dBuV/ 39.31 38.89	ng Antenna ('m dB 29.00 6 31.92 9	Cable dB 6.38	Preamp dB 37.18 34.86	dBuV/ 37.51 45.52	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28.	r Remark nit 49 Peak 48 Peak
1 1 1 1 1 1	1 2	Frequency MHz 3151.99	dBuV/ 39.31	ng Antenna (m dB 29.00 6 31.92 9	Cable dB 6.38	Preamp dB 37.18	dBuV/ 37.51	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -26.	r Remark nit 49 Peak 48 Peak
Туре	1 2 3	Frequency MHz 3151.99 5762.24 8002.06	dBuV/ 39.31 38.89 32.81	ng Antenna (m dB 29.00 6 31.92 9	Cable dB 6.38 9.57 0.91 2.80	Preamp dB 37.18 34.86 33.31	dBuV/ 37.51 45.52 47.51	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -26.	r Remark nit 49 Peak 48 Peak 49 Peak
-	1 2 3 4	Frequency MHz 3151.99 5762.24 8002.06 11663.19	dBuV/ 39.31 38.89 32.81 32.08	ng Antenna (m dB 29.00 6 31.92 9 37.10 10 40.28 12	Cable dB 6.38 9.57 0.91 2.80	Preamp dB 37.18 34.86 33.31 36.39	dBuV/ 37.51 45.52 47.51 48.77	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -26. 74.00 -25.	r Remark nit 49 Peak 48 Peak 49 Peak 23 Peak
-	1 2 3	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b	dBuV/ 39.31 38.89 32.81 32.08	ng Antenna (m dB 29.00 6 31.92 9 37.10 16 40.28 12 Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable	Preamp dB 37.18 34.86 33.31 36.39 CH11	dBuV/ 37.51 45.52 47.51 48.77	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -26. 74.00 -25. Polarity	r Remark dit 49 Peak 48 Peak 49 Peak 23 Peak Horizontal
-	1 2 3 4	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz	dBuV/ 39.31 38.89 32.81 32.08 Readin	ng Antenna (m dB 29.00 6 31.92 9 37.10 10 40.28 12 Test channel	Cable dB 6.38 9.57 0.91 2.80 C	Preamp dB 37.18 34.86 33.31 36.39 CH11	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -25. Polarity	r Remark 11 49 Peak 48 Peak 49 Peak 23 Peak Horizontal
-	1 2 3 4	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b	dBuV/ 39.31 38.89 32.81 32.08	ng Antenna (m dB 29.00 6 31.92 9 37.10 16 40.28 12 Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable	Preamp dB 37.18 34.86 33.31 36.39 CH11	dBuV/ 37.51 45.52 47.51 48.77	l Limit Ove m dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -26. 74.00 -25. Polarity	r Remark 11 49 Peak 48 Peak 49 Peak 23 Peak Horizontal r Remark nit .88 Peak
-	1 2 3 4 Mark	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58 8063.40	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29 32.62	Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.96 1.08	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45 33.32	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85 47.58	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -35. 74.00 -32. 74.00 -26.	r Remark dit 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark mit .88 Peak .15 Peak
-	1 2 3 4	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29	Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.96	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -35.	r Remark dit 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark mit .88 Peak .15 Peak
-	1 2 3 4 Mark	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58 8063.40	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29 32.62	Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.38 6.38 8.96 1.08 2.69	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45 33.32	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85 47.58	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -35. 74.00 -32. 74.00 -26.	r Remark dit 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark mit .88 Peak .15 Peak
Туре	1 2 3 4 Mark	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58 8063.40 11399.03	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29 32.62	mg Antenna (1 dB 29.00 6 31.92 9 37.10 10 40.28 12 Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.38 6.38 8.96 1.08 2.69	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45 33.32 36.43 CH11	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85 47.58	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -35. 74.00 -35. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35.	r Remark it 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark it .88 Peak .15 Peak .42 Peak .37 Peak Vertical
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58 8063.40 11399.03 802.11b Frequency MHz 3472.12	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29 32.62 31.77 Readin dBuV/ 38.41	Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.96 1.08 2.69 Cable dB 6.37	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45 33.32 36.43 CH11 Preamp dB 36.58	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85 47.58 48.63 Leve dBuV/ 37.58	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -28. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -35. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -36. Polarity	r Remark it 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark it .88 Peak .15 Peak .42 Peak .37 Peak Vertical er Remark it .42 Peak
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 4 Mark 1	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58 8063.40 11399.03 802.11b Frequency MHz 3472.12 5762.24	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29 32.62 31.77 Readin dBuV/ 38.41 39.48	Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.96 1.08 2.69 Cable dB 6.37 6 0.57	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45 33.32 36.43 CH11 Preamp dB 36.58 34.86	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85 47.58 48.63 Leve dBuV/ 37.58 46.11	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -26. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -32. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -36. 74.00 -37.	r Remark it 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark it .88 Peak .15 Peak .42 Peak .37 Peak Vertical er Remark it .42 Peak .89 Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3151.99 5762.24 8002.06 11663.19 802.11b Frequency MHz 3151.99 5138.58 8063.40 11399.03 802.11b Frequency MHz 3472.12	dBuV/ 39.31 38.89 32.81 32.08 Readin dBuV/ 39.92 36.29 32.62 31.77 Readin dBuV/ 38.41	Test channel Test channel	Cable dB 6.38 9.57 0.91 2.80 Cable dB 6.38 8.96 1.08 2.69 Cable dB 6.37	Preamp dB 37.18 34.86 33.31 36.39 CH11 Preamp dB 37.18 35.45 33.32 36.43 CH11 Preamp dB 36.58	dBuV/ 37.51 45.52 47.51 48.77 Leve dBuV/ 38.12 41.85 47.58 48.63 Leve dBuV/ 37.58	Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -26. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -35. 74.00 -32. 74.00 -26. 74.00 -25. Polarity Limit Ove M dBuV/m lim 74.00 -36. 74.00 -25.	r Remark it 49 Peak 48 Peak 49 Peak 23 Peak Horizontal er Remark it .88 Peak .15 Peak .42 Peak .37 Peak Vertical er Remark it .42 Peak

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Туре		802.11g		Test channel	C	H01		Polarity	ŀ	Horizontal
	Mark 1	Frequency MHz 3143.98	Readir dBuV/ 39.72	m dB 29.00	Cable dB 6.37	dB 37.21	Leve dBuV/ 37.88	/m dBuV/m 74.00 -		t 2 Peak
	2 3 4	4996.69 8083.96 10888.51	34.63 32.49 32.48	31.87 37.20 40.57	8.81 11.15 12.52	35.24 33.32 36.76	40.07 47.52 48.81	74.00 -		3 Peak 8 Peak 9 Peak
Туре		802.11g		Test channel	C	H01		Polarity	\	Vertical
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/		Over	Remark t
	1 2 3	4086.46 5762.24 8083.96	36.79 39.35 32.73	30.00 31.92 37.20	7.46 9.57 11.15	36.31 34.86 33.32	37.94 45.98 47.76	74.00 -	28.0	6 Peak 2 Peak 4 Peak
	4	10916.26	32.18	40.60	12.52	36.74	48.56			4 Peak
Туре		802.11g		Test channel	C	H06		Polarity	ŀ	Horizontal
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/		Over	
	1 2 3	3135.99 4785.08 8022.46	39.87 36.31	29.00 31.40	6.36 8.41	37.25 35.36 33.31	37.98 40.76 47.45	74.00 -	33.2	
	4	10427.37	32.67 33.98	37.14 39.93	10.95 12.46	37.21	49.16		26.5 24.8	4 Peak
Туре		000.44								
71		802.11g		Test channel	C	H06		Polarity	١	Vertical
- 31 ·	Mark	802.11g Frequency	Readin	g Antenna	Cable dB		Leve dBuV/	l Limit	Over	Remark
	1 2	Frequency MHz 3854.08 5762.24	dBuV/ 37.80 35.86	g Antenna m dB 29.80 31.92	Cable dB 7.22 9.57	Preamp dB 36.85 34.86	dBuV/ 37.97 42.49	Limit 'm dBuV/m 74.00 -	Over limi 36.0	Remark t 3 Peak 1 Peak
	1	Frequency MHz 3854.08 5762.24 8104.56 10888.51	dBuV/ 37.80	g Antenna m dB 29.80	Cable dB 7.22 9.57 11.21 12.52	Preamp dB 36.85 34.86 33.33 36.76	dBuV/ 37.97	Limit /m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 -	Over limi 36.0 31.5 25.7 25.7	Remark t 3 Peak 1 Peak 8 Peak 0 Peak
Туре	1 2 3	Frequency MHz 3854.08 5762.24 8104.56	dBuV/ 37.80 35.86 33.16	g Antenna m dB 29.80 31.92 37.18	Cable dB 7.22 9.57 11.21 12.52	Preamp dB 36.85 34.86 33.33	dBuV/ 37.97 42.49 48.22	Limit 'm dBuV/m 74.00 - 74.00 - 74.00 -	Over limi 36.0 31.5 25.7 25.7	Remark t 3 Peak 1 Peak 8 Peak
	1 2 3 4 Mark	Frequency MHz 3854.08 5762.24 8104.56 10888.51 802.11g Frequency MHz	dBuV/ 37.80 35.86 33.16 32.17 Readin dBuV/	g Antenna m dB 29.80 31.92 37.18 40.57 Test channel	Cable dB 7.22 9.57 11.21 12.52 Cable dB	Preamp dB 36.85 34.86 33.33 36.76 CH11	dBuV/ 37.97 42.49 48.22 48.50 Leve dBuV/	l Limit /m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity Limit m dBuV/m	Over limi: 36.0: 31.5: 25.7: 25.50	Remark t 3 Peak 1 Peak 8 Peak 9 Peak Horizontal
	1 2 3 4	Frequency MHz 3854.08 5762.24 8104.56 10888.51 802.11g	dBuV/ 37.80 35.86 33.16 32.17	g Antenna m dB 29.80 31.92 37.18 40.57 Test channel g Antenna m dB 29.00 31.26	Cable dB 7.22 9.57 11.21 12.52	Preamp dB 36.85 34.86 33.33 36.76 CH11	dBuV/ 37.97 42.49 48.22 48.50	l Limit /m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity l Limit (m dBuV/m 74.00 - 74.00 -	Over 1imir 36.03 31.53 25.76 25.56 	Remark t 3 Peak 1 Peak 8 Peak 9 Peak Horizontal Remark : 3 Peak
Туре	1 2 3 4	Frequency MHz 3854.08 5762.24 8104.56 10888.51 802.11g Frequency MHz 3143.98 4664.81 8125.22 11486.41	dBuV/ 37.80 35.86 33.16 32.17 Readin dBuV/ 39.96 36.30	g Antenna m dB 29.80 31.92 37.18 40.57 Test channel g Antenna m dB 29.00 31.26 37.10 40.86	Cable dB 7.22 9.57 11.21 12.52 Cable dB 6.37 8.18 11.28 12.73	Preamp dB 36.85 34.86 33.33 36.76 CH11 Preamp dB 37.21 35.94 33.36 36.38	dBuV/ 37.97 42.49 48.22 48.50 	Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 -	Over 1imi: 36.0: 31.5: 25.7: 25.5: 0ver 1imit 35.88 34.20 26.67 25.02	Remark t 3 Peak 1 Peak 8 Peak 0 Peak Horizontal Remark : 3 Peak 0 Peak
	1 2 3 4	Frequency MHz 3854.08 5762.24 8104.56 10888.51 802.11g Frequency MHz 3143.98 4664.81 8125.22	dBuV/ 37.80 35.86 33.16 32.17 Readin dBuV/ 39.96 36.30 32.31	g Antenna m dB 29.80 31.92 37.18 40.57 Test channel g Antenna m dB 29.00 31.26 37.10	Cable dB 7.22 9.57 11.21 12.52 Cable dB 6.37 8.18 11.28 12.73	Preamp dB 36.85 34.86 33.33 36.76 CH11 Preamp dB 37.21 35.94 33.36	dBuV/ 37.97 42.49 48.22 48.50 	Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - 74.00 -	Over 1imi: 36.0: 31.5: 25.7: 25.5: 0ver 1imit 35.88 34.20 26.67 25.02	Remark t 3 Peak 1 Peak 8 Peak 9 Peak Horizontal Remark 1 Peak 9 Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3854.08 5762.24 8104.56 10888.51 802.11g Frequency MHz 3143.98 4664.81 8125.22 11486.41 802.11g Frequency MHz	dBuV/ 37.80 35.86 33.16 32.17 Readin dBuV/ 39.96 36.30 32.31 31.77	g Antenna m dB 29.80 31.92 37.18 40.57 Test channel g Antenna m dB 29.00 31.26 37.10 40.86 Test channel	Cable dB 7.22 9.57 11.21 12.52 Cable dB 6.37 8.18 11.28 12.73 Cable dB	Preamp dB 36.85 34.86 33.33 36.76 CH11 Preamp dB 37.21 35.94 33.36 36.38 CH11 Preamp dB	dBuV/ 37.97 42.49 48.22 48.50 Leve dBuV/ 38.12 39.80 47.33 48.98	Polarity Polarity Polarity Polarity 1 Limit (Manage of the content of the con	Over 11mi: 36.0: 31.5: 525.7: 225.5: 6	Remark t 3 Peak 1 Peak 8 Peak 9 Peak Horizontal Remark 1 Peak 9 Peak 9 Peak 1 Peak 9 Peak 1 Peak 1 Peak 1 Peak 1 Peak 1 Peak 2 Peak
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3854.08 5762.24 8104.56 10888.51 802.11g Frequency MHz 3143.98 4664.81 8125.22 11486.41 802.11g	dBuV/ 37.80 35.86 33.16 32.17 Readin dBuV/ 39.96 36.30 32.31 31.77	g Antenna m dB 29.80 31.92 37.18 40.57 Test channel g Antenna m dB 29.00 31.26 37.10 40.86 Test channel	Cable dB 7.22 9.57 11.21 12.52 Cable dB 6.37 8.18 11.28 12.73 Cable	Preamp dB 36.85 34.86 33.33 36.76 CH11 Preamp dB 37.21 35.94 33.36 36.38 CH11 Preamp	dBuV/ 37.97 42.49 48.22 48.50 	Polarity Polarity Polarity 1 Limit (May 1,00) - 74,00 - 74,	Over 1imit 35.88 34.20 6.67 Over 1imit 35.87 00 Over 1imit 35.76 25.76 00 Over 1imit 35.77 00 Over 1imit 36.00 Over 1imit 35.77 00 Over 1imit 36.00 Over 1i	Remark t 3 Peak 1 Peak 8 Peak 9 Peak Horizontal Remark 1 Peak 9 Peak 1 Peak 1 Peak 1 Peak 1 Peak 1 Peak 2 Peak 1 Peak 2 Peak 2 Peak 2 Peak 2 Peak 2 Peak 3 Peak 4 Peak 4 Peak 5 Peak

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Туре		802.11n(F	HT20)	Test channe	1 (CH01		Polarity	H	lorizontal
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve:		over Dimit	Remark
	1	3143.98	39.36	29.00	6.37	37.21	37.52			Peak
	2	5112.49	35.13	32.15	8.95	35.47	40.76			Peak
	3	8063.40	33.06	37.20	11.08	33.32	48.02			Peak
	4	11486.41	32.72	40.86	12.73	36.38	49.93	74.00 -2	4.07	Peak
Туре		802.11n(F	HT20)	Test channe	I (CH01		Polarity	٧	'ertical
	Mark	Frequency	Deadin	ig Antenna	Cable	Preamp	Leve	l Limit (over	Remark
	Hark	MHz	dBuV/		dB	dB	dBuV/		limit	
	1	4223.95	36.98	30.15	7.69	36.07	38.75			Peak
	2	5762.24	40.49	31.92	9.57	34.86	47.12			Peak
	3	7981.72	32.78	37.03	10.89	33.31	47.39	74.00 -:	26.61	Peak
	4	10916.26	32.05	40.60	12.52	36.74	48.43	74.00 -	25.57	Peak
Туре		802.11n(H	HT20)	Test channe	1 (CH06		Polarity	H	lorizontal
	Mark	Frequency			Cable	e Preamp	Leve		Over	Remark
		MHz	dBuV/		dB	dB	dBuV/		limit	
	1	3135.99	39.92	29.00	6.36		38.03			Peak
	2	5086.52	35.28	32.20	8.92		40.94			Peak
	3	8063.40	32.30	37.20	11.08	33.32	47.26			Peak
	4	10888.51	32.38	40.57	12.52	36.76	48.71	74.00 -	25.29	Peak
_										
Туре		802.11n(H	HT20)	Test channe	1 (CH06		Polarity	٧	'ertical
Туре	Marala .									
Туре	Mark	Frequency	Readir	ng Antenna	Cable	e Preamp		el Limit	Over	Remark
Туре		Frequency MHz	Readir dBuV/	ng Antenna /m dB	Cable dB	e Preamp dB	dBuV/	el Limit /m dBuV/m	Over limit	Remark
Туре	1	Frequency MHz 3241.50	Readir dBuV/ 39.82	ng Antenna /m dB 28.73	Cable dB 6.51	e Preamp dB 36.87	dBuV/ 38.19	el Limit /m dBuV/m 74.00 -	Over limit	Remark : Peak
Туре	1 2	Frequency MHz 3241.50 5762.24	Readir dBuV/ 39.82 39.35	ng Antenna /m dB 28.73 31.92	Cable dB 6.51 9.57	Preamp dB 36.87 34.86	dBuV/ 38.19 45.98	Limit /m dBuV/m 74.00 -	Over limit 35.81	Remark : L Peak ! Peak
Туре	1	Frequency MHz 3241.50	Readir dBuV/ 39.82	ng Antenna /m dB 28.73	Cable dB 6.51	Preamp dB 36.87 34.86	dBuV/ 38.19	Limit /m dBuV/m 74.00 - 74.00 -	Over limit 35.81 28.02	Remark : Peak
	1 2 3	Frequency MHz 3241.50 5762.24 8063.40 11341.14	Readir dBuV/ 39.82 39.35 32.57 31.64	ng Antenna /m dB 28.73 31.92 37.20 40.48	Cable dB 6.51 9.57 11.08 12.67	e Preamp dB 36.87 34.86 33.32 36.46	dBuV/ 38.19 45.98 47.53	Limit /m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 -	Over limit 35.81 28.02 26.47	Remark : L Peak 2 Peak 7 Peak 7 Peak
Туре	1 2 3	Frequency MHz 3241.50 5762.24 8063.40	Readir dBuV/ 39.82 39.35 32.57 31.64	ng Antenna /m dB 28.73 31.92 37.20	Cable dB 6.51 9.57 11.08 12.67	Preamp dB 36.87 34.86 33.32	dBuV/ 38.19 45.98 47.53	Limit /m dBuV/m 74.00 - 74.00 -	Over limit 35.81 28.02 26.47	Remark : L Peak 2 Peak 7 Peak
	1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(H	Readir dBuV/ 39.82 39.35 32.57 31.64	ng Antenna /m dB 28.73 31.92 37.20 40.48 Test channe	Cable dB 6.51 9.57 11.08 12.67	e Preamp dB 36.87 34.86 33.32 36.46	dBuV/ 38.19 45.98 47.53 48.33	Limit /m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 -	Over limit 35.81 28.02 26.47 25.67	Remark : L Peak 2 Peak 7 Peak 7 Peak 1 Peak
	1 2 3	Frequency MHz 3241.50 5762.24 8063.40 11341.14	Readir dBuV/ 39.82 39.35 32.57 31.64	ng Antenna /m dB 28.73 31.92 37.20 40.48 Test channe	Cable dB 6.51 9.57 11.08 12.67	e Preamp dB 36.87 34.86 33.32 36.46	dBuV/ 38.19 45.98 47.53 48.33	Polarity Limit Limit M ABUV/M 74.00 - 74.00 - 74.00 - Polarity	Over limit 35.81 28.02 26.47	Remark : L Peak 2 Peak 7 Peak 7 Peak 1 Orizontal Remark
	1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(H	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20)	ng Antenna /m dB 28.73 31.92 37.20 40.48 Test channe	Cable dB 6.51 9.57 11.08 12.67	e Preamp dB 36.87 34.86 33.32 36.46 CH11	dBuV/ 38.19 45.98 47.53 48.33	Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity	Over limit 35.81 28.02 26.47 25.67 	Remark : L Peak 2 Peak 7 Peak 7 Peak 1 Orizontal Remark
	1 2 3 4 Mark	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(H	Readir dBuV/ 39.82 39.35 32.57 31.64 dT20)	ng Antenna /m dB 28.73 31.92 37.20 40.48 Test channe	Cable 6.51 9.57 11.08 12.67	e Preamp dB 36.87 34.86 33.32 36.46 CH11	dBuV/ 38.19 45.98 47.53 48.33 Leve dBuV/	Polarity Table 1 Limit Table 2 Limit Table 3 Limit Table 3 Limit Table 4 Lim	Over limit 35.81 28.02 26.47 25.67 	Remark : L Peak 2 Peak 7 Peak 7 Peak Horizontal Remark Peak
	1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(H	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) Readir dBuV/ 38.82	ng Antenna /m dB 28.73 31.92 37.20 40.48 Test channe	Cable 6.51 9.57 11.08 12.67 Cable dB 6.76	Preamp dB 36.87 34.86 33.32 36.46 CH11	dBuV/ 38.19 45.98 47.53 48.33 Leve dBuV/ 37.97	Polarity Table 1 Limit Table 2 Limit Table 3 Limit Table 3 Limit Table 4 Lim	Over limit 35.81 28.02 26.47 25.67 F Over limit 36.03	Remark : L Peak 2 Peak 7 Peak 7 Peak 1 Peak 8 Peak 8 Peak 8 Peak 8 Peak
	1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(H	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) Readir dBuV/ 38.82 35.40	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe mg Antenna /m dB 28.95 31.91	Cable 6.51 9.57 11.08 12.67 Cable dB 6.76 8.96 11.08	Preamp dB 36.87 34.86 33.32 36.46 CH11 Preamp dB 36.56 35.44	dBuV/ 38.19 45.98 47.53 48.33 Leve dBuV/ 37.97 40.83	Polarity TI Limit M dBuV/m 74.00 - 74.00 - 74.00 - Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 -	Over 1imit 35.81 28.02 26.47 25.67 F	Remark : L Peak 2 Peak 7 Peak 7 Peak 4 Peak Borizontal
	1 2 3 4 	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(Frequency MHz 3463.29 5164.81 8063.40	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) Readir dBuV/ 38.82 35.40 32.55 31.69	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe mg Antenna /m dB 28.95 31.91 37.20	Cable 6.51 12.67 11.08 12.67 Cable 68 6.76 8.96 11.08 12.75	Preamp dB 36.87 34.86 33.32 36.46 CH11 Preamp dB 36.56 35.44 33.32	dBuV/ 38.19 45.98 47.53 48.33 Leve dBuV/ 37.97 40.83 47.51	Polarity TI Limit M dBuV/m 74.00 - 74.00 - 74.00 - Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 -	Over 11 mit 28.02 26.47 25.67 F	Remark : L Peak 2 Peak 7 Peak 7 Peak 4 Peak Borizontal
Туре	1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(H Frequency MHz 3463.29 5164.81 8063.40 11545.04 802.11n(H	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) Readir dBuV/ 38.82 35.40 32.55 31.69	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe mg Antenna /m dB 28.95 31.91 37.20 40.76 Test channe	Cable 6.51 9.57 11.08 12.67 Cable dB 6.76 8.96 11.08 12.75	Preamp dB 36.87 34.86 33.32 36.46 CH11 Preamp dB 36.56 35.44 33.32 36.37 CH11	dBuV/ 38.19 45.98 47.53 48.33 Leve dBuV/ 37.97 40.83 47.51 48.83	Polarity	Over limit 35.81 28.02 26.47 25.67 P	Remark Peak Peak Peak Peak Remark Remark Peak Peak Peak Peak Peak
Туре	1 2 3 4 	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(F Frequency MHz 3463.29 5164.81 8063.40 11545.04 802.11n(F	Readir dBuV/ 39.82 39.35 32.57 31.64 dT20) 	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe /m dB 28.95 31.91 37.20 40.76 Test channe	Cable dB 6.51 1.08 12.67 Cable dB 6.76 8.96 11.08 12.75	e Preamp dB 36.87 34.86 33.32 36.46 CH11 e Preamp dB 36.56 35.44 33.32 36.37 CH11	dBuV/ 38.19 45.98 47.53 48.33 Leve dBuV/ 37.97 40.83 47.51 48.83	Polarity Polarity Polarity Polarity Polarity Polarity Limit M dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity	Over 1imit 35.81 28.02 26.47 25.67 F	Remark Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(F Frequency MHz 3463.29 5164.81 8063.40 11545.04 802.11n(F	Readir dBuV/ 39.82 39.35 32.57 31.64 dT20) 	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe /m dB 28.95 31.91 37.20 40.76 Test channe	Cable dB 6.76 8.96 11.08 12.75 Cable dB	e Preamp dB 36.87 34.86 33.32 36.46 CH11 e Preamp dB 36.56 35.44 33.32 36.37 CH11	dBuV/ 38.19 45.98 47.53 48.33 48.33 Leve dBuV/ 37.97 40.83 47.51 48.83	Polarity Polarity Polarity Polarity 1 Limit M dBuV/m 74.00 - 80 -	Over limit 35.81 28.02 26.47 25.67 P	Remark Peak Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(F Frequency MHz 3463.29 5164.81 8063.40 11545.04 802.11n(F Frequency MHz 3543.55	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) 	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe /m dB 28.95 31.91 37.20 40.76 Test channe	Cable 6.51 9.57 11.08 12.67 Cable 68.96 11.08 12.75	e Preamp dB 36.87 34.86 33.32 36.46 CH11 e Preamp dB 36.56 35.44 33.32 36.37 CH11	dBuV/ 38.19 45.98 47.53 48.33 48.33 Leve dBuV/ 37.97 40.83 47.51 48.83 Leve dBuV/ 37.38	Polarity Polarity Polarity Limit M dBuV/m 74.00 -	Over limit 35.81 28.02 26.47 25.67 P	Remark Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(F Frequency MHz 3463.29 5164.81 8063.40 11545.04 802.11n(F Frequency MHz 3543.55 4821.76	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) Readir dBuV/ 38.82 35.40 32.55 31.69 HT20)	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe /m dB 28.95 31.91 37.20 40.76 Test channe Test channe	Cable dB 6.51 1.08 12.67 Cable dB 6.76 8.96 11.08 12.75 Cable dB 6.84 8.50	e Preamp dB 36.87 34.86 33.32 36.46 CH11 e Preamp dB 36.56 35.44 33.32 36.37 CH11 e Preamp dB 36.78 35.24	dBuV/ 38.19 45.98 47.53 48.33 48.33 Leve dBuV/ 37.97 40.83 47.51 48.83 Leve dBuV/ 37.38 41.06	Polarity Polarity Polarity 1 Limit M dBuV/m 74.00 -	Over limit 35.81 28.02 26.47 25.67 P	Remark Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 3241.50 5762.24 8063.40 11341.14 802.11n(F Frequency MHz 3463.29 5164.81 8063.40 11545.04 802.11n(F Frequency MHz 3543.55	Readir dBuV/ 39.82 39.35 32.57 31.64 HT20) 	mg Antenna /m dB 28.73 31.92 37.20 40.48 Test channe /m dB 28.95 31.91 37.20 40.76 Test channe	Cable 6.51 9.57 11.08 12.67 Cable 68.96 11.08 12.75	e Preamp dB 36.87 34.86 33.32 36.46 CH11 e Preamp dB 36.56 35.44 33.32 36.37 CH11	dBuV/ 38.19 45.98 47.53 48.33 48.33 Leve dBuV/ 37.97 40.83 47.51 48.83 Leve dBuV/ 37.38	Polarity Table 1 Polarity Table 2 Polarity Table 3 Polarity Table 3 Polarity Table 4 Polarity Table 5 Table 6 Polarity Table 6 Table 7 Table	Over limit 35.81 28.02 26.47 25.67 P	Remark Peak Peak Peak Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea

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Туре		802.11n(H	HT40)	Test channe		CH03		Polarity	F	lorizontal
	Mark	Frequency MHz	Readin /dBuV		Cable	Preamp	Leve dBuV/		over Dver limit	Remark
	1	3143.98	40.36	29.00	6.37	37.21	38.52		35.48	
	2	5060.69	34.77	32.20	8.89	35.41	40.45		33.55	Peak
	3	8042.90	32.53	37.19	11.02	33.31	47.43	74.00 -2	26.57	Peak
	4	12429.54	32.10	39.24	13.44	35.64	49.14	74.00 -	24.86	Peak
Туре		802.11n(H	HT40)	Test channe	(CH03		Polarity	V	ertical
						D		1		
	Mark	Frequency			Cable		Leve)ver	Remark
	4	MHz 3160.03	dBuV/		dB 6.40	dB	dBuV/i		limit	
	1 2	4366.07	39.12 37.57	28.98 30.53	7.97	37.15 36.16	37.35 39.91			Peak Peak
	3	5762.24	39.75	31.92	9.57	34.86	46.38			Peak
	4	8002.06	32.74	37.10	10.91	33.31	47.44			Peak
	-	0002.00	32.74	37.10	10.91	33.31	47.44	74.00	20.30	reak
Туре		802.11n(F	HT40)	Test channe	(CH06		Polarity	F	lorizontal
	Mark	Frequency	Readin		Cable		Leve:		ver	Remark
	1	MHz	dBuV/		dB	dB	dBuV/i		imit	Da-I.
	1 2	3143.98	39.90	29.00	6.37	37.21 35.37	38.06			Peak
	3	5047.83 8083.96	35.24 31.97	32.19 37.20	8.87 11.15	33.32	40.93 47.00			Peak Peak
	4	11515.68	31.20	40.85	12.74	36.37	48.42			Peak
		11313.00	22.20	10103		20.27	.0	7.1100		- Cons
Type		802 11n/L	IT40)	Test channe				Polarity		/ortical
Туре		802.11n(H	HT40)	Test channe	l (CH06		Polarity	V	/ertical
Туре	Mank									
Туре	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit O	ver	/ertical Remark
Туре		Frequency MHz	Readin dBuV/	g Antenna m dB	Cable	Preamp dB	Leve:	l Limit O m dBuV/m l	ver	Remark
Туре	1	Frequency MHz 4086.46	Readin dBuV/ 36.86	g Antenna m dB 30.00	Cable dB 7.46	Preamp dB 36.31	Leve dBuV/r 38.01	l Limit 0 m dBuV/m l 74.00 -3	ver imit 5.99	Remark Peak
Туре	1 2	Frequency MHz 4086.46 5762.24	Readin dBuV/ 36.86 40.06	g Antenna m dB 30.00 31.92	Cable dB 7.46 9.57	Preamp dB 36.31 34.86	Leve dBuV/r 38.01 46.69	l Limit 0 m dBuV/m l 74.00 -3 74.00 -2	ver imit 5.99	Remark Peak Peak
Туре	1	Frequency MHz 4086.46 5762.24 8083.96	Readin dBuV/ 36.86 40.06 32.51	g Antenna m dB 30.00 31.92 37.20	Cable dB 7.46 9.57 11.15	Preamp dB 36.31 34.86 33.32	Leve dBuV/r 38.01 46.69 47.54	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2	over imit 5.99 7.31	Remark Peak Peak Peak
	1 2 3	Frequency MHz 4086.46 5762.24 8083.96 10507.31	Readin dBuV/ 36.86 40.06 32.51 33.53	g Antenna m dB 30.00 31.92 37.20 40.01	Cable dB 7.46 9.57 11.15 12.47	Preamp dB 36.31 34.86 33.32 37.08	Leve dBuV/r 38.01 46.69	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2	ver imit 5.99 7.31 6.46	Remark Peak Peak Peak Peak
Туре	1 2 3	Frequency MHz 4086.46 5762.24 8083.96	Readin dBuV/ 36.86 40.06 32.51 33.53	g Antenna m dB 30.00 31.92 37.20	Cable dB 7.46 9.57 11.15 12.47	Preamp dB 36.31 34.86 33.32	Leve dBuV/r 38.01 46.69 47.54	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2	ver imit 5.99 7.31 6.46	Remark Peak Peak Peak
	1 2 3	Frequency MHz 4086.46 5762.24 8083.96 10507.31	Readin dBuV/ 36.86 40.06 32.51 33.53	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe	Cable dB 7.46 9.57 11.15 12.47	Preamp dB 36.31 34.86 33.32 37.08	Leve dBuV/r 38.01 46.69 47.54 48.93	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 74.00 -2	ver imit 5.99 7.31 6.46	Remark Peak Peak Peak Peak
	1 2 3 4	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H	Readin dBuV/ 36.86 40.06 32.51 33.53	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe	Cable dB 7.46 9.57 11.15 12.47	Preamp dB 36.31 34.86 33.32 37.08	Leve dBuV/r 38.01 46.69 47.54 48.93	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity	ver imit 5.99 7.31 6.46 5.07	Remark Peak Peak Peak Peak dorizontal
	1 2 3 4 Mark	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40)	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe ng Antenna /m dB 29.00	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38	Preamp dB 36.31 34.86 33.32 37.08 CH09	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/r 38.31	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit (m dBuV/m 74.00 -3	ver imit 5.99 7.31 6.46 5.07 	Remark Peak Peak Peak Peak dorizontal
	1 2 3 4 Mark	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readir dBuV/ 40.11 35.32	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe Ing Antenna /m dB 29.00 32.20	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92	Preamp dB 36.31 34.86 33.32 37.08 CH09	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/r 38.31 40.98	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit (m dBuV/m 1 74.00 -3	ver imit 5.99 7.31 6.46 5.07 F	Remark Peak Peak Peak dorizontal Remark Peak Peak
	1 2 3 4 Mark	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52 8125.22	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readir dBuV/ 40.11 35.32 32.38	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe Ing Antenna Ing Antenna	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28	Preamp dB 36.31 34.86 33.32 37.08 CH09 e Preamp dB 37.18 35.46 33.36	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit (m dBuV/m 3 74.00 -3 74.00 -3 74.00 -3	7.31 6.46 5.07 Pover limit 35.69 33.02 26.60	Remark Peak Peak Peak dorizontal Remark Peak Peak Peak Peak Peak Peak
	1 2 3 4 Mark	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readir dBuV/ 40.11 35.32	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe Ing Antenna /m dB 29.00 32.20	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92	Preamp dB 36.31 34.86 33.32 37.08 CH09	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/r 38.31 40.98	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit (m dBuV/m 3 74.00 -3 74.00 -3 74.00 -3	7.31 6.46 5.07 Pover limit 35.69 33.02 26.60	Remark Peak Peak Peak dorizontal Remark Peak Peak
	1 2 3 4 Mark	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52 8125.22	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe Ing Antenna Ing Antenna	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51	Preamp dB 36.31 34.86 33.32 37.08 CH09 e Preamp dB 37.18 35.46 33.36	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit (m dBuV/m 3 74.00 -3 74.00 -3 74.00 -3	7.31 6.46 5.07 F	Remark Peak Peak Peak dorizontal Remark Peak Peak Peak Peak Peak Peak
Туре	1 2 3 4	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52 8125.22 10860.83	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe og Antenna om dB 29.00 32.20 37.10 40.48 Test channe	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51	Preamp dB 36.31 34.86 33.32 37.08 CH09 e Preamp dB 37.18 35.46 33.36 36.78	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40 48.33	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit 0 m dBuV/m 3 74.00 -3 74.00 -3 74.00 -3 74.00 -3	Dver limit 55.99 16.46 16.5.07 17.31 16.46 16.5.07 17.31 17.35 16.69 17.35 17.	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak
Туре	1 2 3 4 Mark	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52 8125.22 10860.83 802.11n(H	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe og Antenna dB 29.00 32.20 37.10 40.48 Test channe	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51	Preamp dB 36.31 34.86 33.32 37.08 CH09 Preamp dB 37.18 35.46 33.36 36.78 CH09	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40 48.33 Leve:	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit 0 m dBuV/m 3 74.00 -3 74.00 -3 74.00 -3 74.00 -3 Polarity Polarity	Dver limit 35.69 33.02 26.60 V	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(H Frequency MHz 3151.99 5086.52 8125.22 10860.83 802.11n(H	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12 HT40) Readin dBuV/	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe ng Antenna dB 29.00 32.20 37.10 40.48 Test channe	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51	Preamp dB 36.31 34.86 33.32 37.08 CH09 Preamp dB 37.18 35.46 33.36 36.78 CH09 Preamp dB	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40 48.33 Leve: dBuV/	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit 0 m dBuV/m 3 74.00 -3 74.00 -3 74.00 -3 74.00 -3 Polarity Polarity Limit 0 dBuV/m 3 A.00 -3 A.00 -3 Buv/m 3 A.00 -3 A.00	Dver limit 35.69 33.02 26.60 V	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(F) Frequency MHz 3151.99 5086.52 8125.22 10860.83 802.11n(F) Frequency MHz 3844.28	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12 HT40)	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe og Antenna dB 29.00 32.20 37.10 40.48 Test channe g Antenna m dB 29.78	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51	Preamp dB 36.31 34.86 33.32 37.08 CH09 e Preamp dB 37.18 35.46 33.36 36.78 CH09	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40 48.33 Leve: dBuV/ 37.87	Polarity Limit (74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity Limit (M dBuV/m -7 74.00 -2 74.00 -2 Polarity Polarity Limit (M dBuV/m -7 74.00 -2 Polarity	Dver limit 35.69 33.02 26.60 V	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 4 Mark 1 2 2 4 Mark 1 2 2 4 Mark 1 2 4 M	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(F) Frequency MHz 3151.99 5086.52 8125.22 10860.83 802.11n(F) Frequency MHz 3844.28 5762.24	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12 HT40)	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe Ing Antenna dB 29.00 32.20 37.10 40.48 Test channe g Antenna m dB 29.78 31.92	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51 Cable dB 7.20 9.57	Preamp dB 36.31 34.86 33.32 37.08 CH09 Preamp dB 37.18 35.46 33.36 36.78 CH09 Preamp dB 36.89 34.86	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40 48.33 Leve: dBuV/ 37.87 46.57	l Limit 0 m dBuV/m 1 74.00 -3 74.00 -2 74.00 -2 74.00 -2 Polarity l Limit 0 m dBuV/m 74.00 -3 74.00 -3 74.00 -3 Polarity l Limit 0 dBuV/m 74.00 -3 74.00 -3 Polarity	Dver limit 35.69 33.02 26.60 Ver limit 35.45 27.43	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pe
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 4086.46 5762.24 8083.96 10507.31 802.11n(F) Frequency MHz 3151.99 5086.52 8125.22 10860.83 802.11n(F) Frequency MHz 3844.28	Readin dBuV/ 36.86 40.06 32.51 33.53 HT40) Readin dBuV/ 40.11 35.32 32.38 32.12 HT40)	g Antenna m dB 30.00 31.92 37.20 40.01 Test channe og Antenna dB 29.00 32.20 37.10 40.48 Test channe g Antenna m dB 29.78	Cable dB 7.46 9.57 11.15 12.47 Cable dB 6.38 8.92 11.28 12.51	Preamp dB 36.31 34.86 33.32 37.08 CH09 e Preamp dB 37.18 35.46 33.36 36.78 CH09	Leve: dBuV/r 38.01 46.69 47.54 48.93 Leve: dBuV/ 38.31 40.98 47.40 48.33 Leve: dBuV/ 37.87	Polarity Limit (74.00	Dver limit 35.69 33.02 26.60 25.67 V	Remark Peak Peak Peak Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea

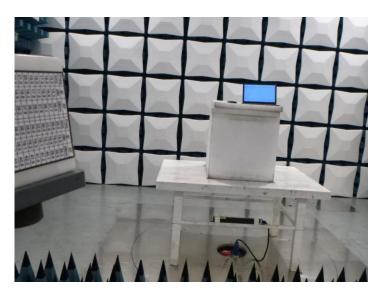
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6. TEST SETUP PHOTOS

Radiated Emission







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AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW21100001.

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