TEST REPORT

Report No.:: CHTEW21090109 Report Verification:

SHT2107011005EW Project No.....:

FCC ID.....:: **2ASRT2-PPX6200**

Applicant's name....:: Screeneo Innovation SA

Route de Lully 5c, 1131 Tolochenaz, Switzerland Address....:

Test item description: **Digital Projector**

Trade Mark: **PHILIPS**

Model/Type reference..... Picopix Max

Listed Model(s): PPX620

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

Date of receipt of test sample.....: Jul. 15, 2021

Date of testing..... Jul. 16, 2021- Sep. 21, 2021

Date of issue..... Sep. 22, 2021

PASS Result....:

Compiled by

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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
- KDB662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
- KDB662911 D02 MIMO with Cross-Polarized Antennas v01: MIMO with Cross-Polarized Antenna

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-09-22	Original

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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	5.9 Radiated Band Edge Emission 15.205/15.209		PASS
5.10	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.

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3. **SUMMARY**

3.1. Client Information

Applicant:	Screeneo Innovation SA	
Address:	Route de Lully 5c, 1131 Tolochenaz, Switzerland	
Manufacturer:	Screeneo Innovation SA	
Address: Route de Lully 5c, 1131 Tolochenaz, Switzerland		

3.2. Product Description

Name of EUT:	Digital Projector
Trade Mark:	PHILIPS
Model No.:	Picopix Max
Listed Model(s):	PPX620
Power supply:	DC 13.05V
Battery Information:	DC 13.05V, 71.80Wh
Adapter Information:	Model:S-TR-149D Input: AC100-240V, 50/60Hz, 1.5A(Max) Output: 5.0Vdc, 3.0A, 9.0Vdc, 3.0A, 12.0Vdc, 3.0A, 15.0Vdc, 4.0A, 20.0Vdc, 3.25A
Hardware version:	V2
Software version:	1.2.1

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:	FPC
Antenna gain:	2.0dBi

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 Number		
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/802.11g/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	2018/09/28	2023/09/27
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2020/10/19	2021/10/18
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14
•	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	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
•	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	2021/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	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

The product has two external antennas, both two are 5dBi antenna gain, and the product is a CDD device with the same gain, according to KDB 662911 D01 section F, the Directional gain=Gant + Array gain

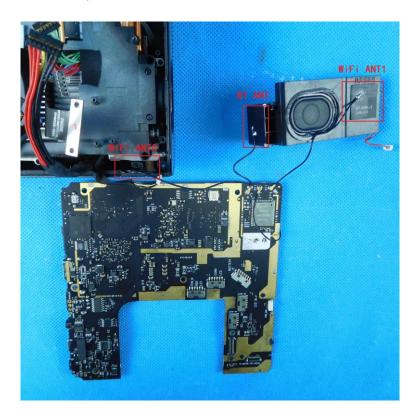
For power spectral density measurements on all devices, Array gain=10log(Nant/Nss) dB, Nss=1.

Directional gain=2+10log(2/1)=5dBi

For power measurements on IEEE 802.11 devices, Array gain=0 dB for Nant≤4

Directional gain=2+0=2dBi

please refer to the below antenna photo.



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5.2. AC Conducted Emission

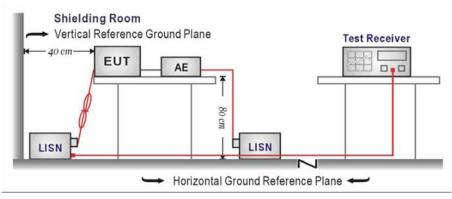
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguenov rango (MHz)	Limit (dBuV)					
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

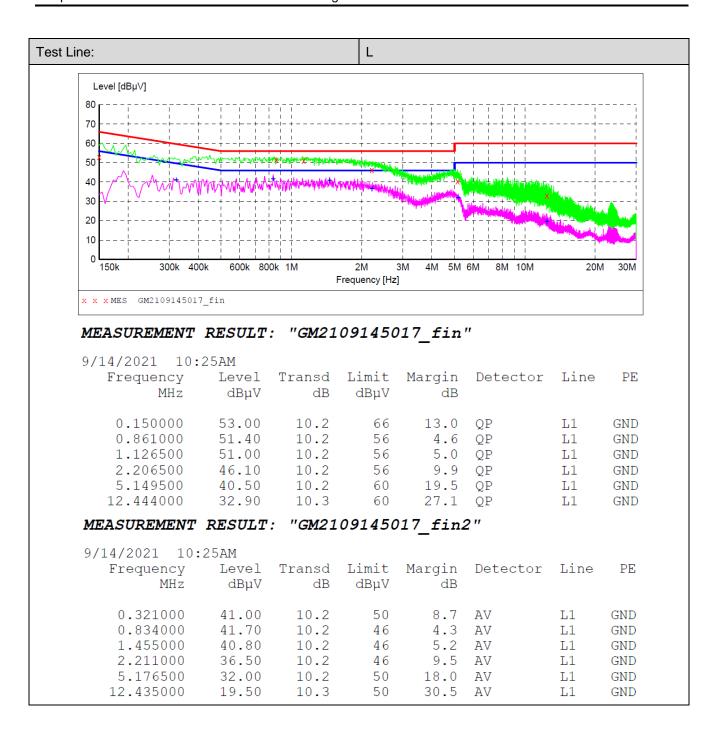
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from 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:

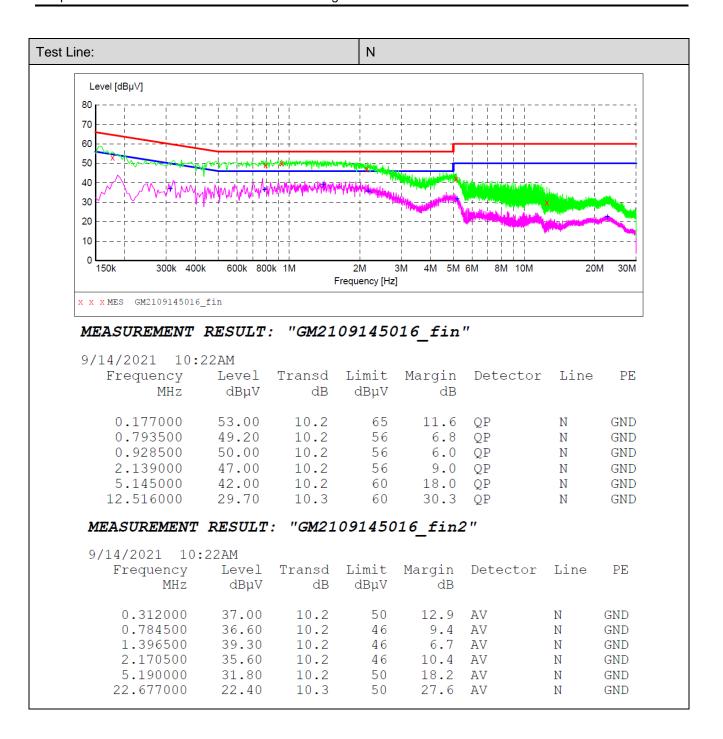
Please refer to the clause 4.2

TEST RESULT

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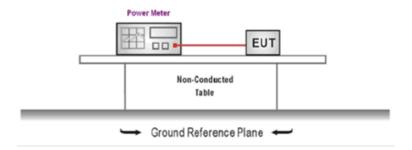
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5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
- 4. Record the measurement data.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix A on the appendix report

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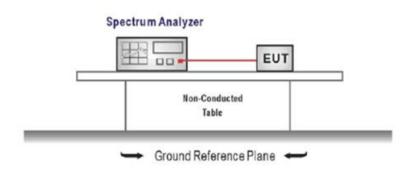
5.4. Power Spectral Density

LIMIT

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

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix B on the appendix report

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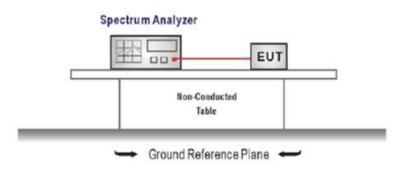
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix C on the appendix report

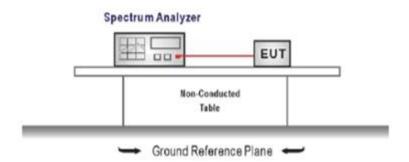
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5.6. 99% Occupied Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output andthe spectrum analyzer).

Center Frequency =channel center frequency

Span≥1.5 x OBW

RBW = 1%~5%OBW

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

TEST Data

Please refer to appendix D on the appendix report

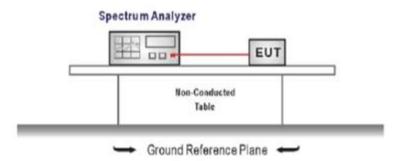
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5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting and enable the EUT transmit continuously
- Use the following spectrum analyzer settings:
 Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW ≥ RBW
 Sweep=as necessary to capture the entire dwell time,
 - Detector function = peak, Trigger mode
- 4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

TEST Data

Please refer to appendix E on the appendix report

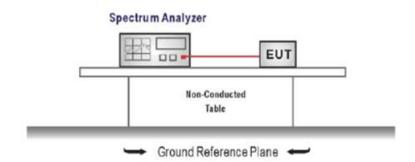
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5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW \geq 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

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TEST	RESUL	Γ
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 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

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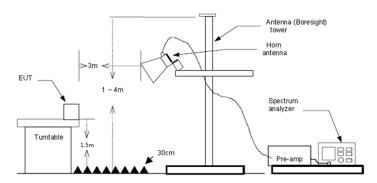
5.9. Radiated Band edge Emission

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
 - 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
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).
- 4) Pre-scan all modulation mode and antenna. 802.11b/g/n in the report only displays the worst antenna information. The worst antenna is antenna 1.

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Туре		802.1	1b	Test c	hannel	Cł	H01	Р	olarity		Horizontal
	Mark 1 2	Frequency MHz 2310.00 2390.01	Reading dBuV/m 37.71 37.57	Antenna dB 27.96 27.72	dB 5.43	dB	dB 20.00	Level dBuV/m 53.54 53.37	Limit dBuV/m 74.00 74.00	-20.46	t Peak
	Mark 1	Frequency MHz 2310.00	Reading dBuV/m 32.13	Antenna dB 27.96	Cable dB 5.43	dB .	Aux dB 20.00	Level dBuV/m 47.96		Over limit -6.04	Remark Average
	2	2390.01	30.78	27.72	5.53		20.00	46.58		-7.42	Average

Туре	802.11b			Test cl	Test channel			Р	olarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limi		
	1	2310.00	39.38	27.96	5.43	37.56	20.00	55.21	74.00	-18.79	Peak	
	2	2390.01	38.34	27.72	5.53	37.45	20.00	54.14	74.00	-19.86	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00	31.37	27.96	5.43	37.56	20.00	47.20	54.00	-6.80	Average	
	2	2390.01	31.45	27.72	5.53	37.45	20.00	47.25	54.00	-6.75	Average	

Туре	802.11b			Test ch	Test channel		CH11 F		olarity	Horizontal	
-		Frequency MHz	dBuV/m	Antenna dB	dB	dB .	dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
		2483.49 2500.00	31.06 31.64	27.43 27.40	5.64 5.66		20.00 20.00	46.87 47.44		-7.13 -6.56	Average Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	38.23	27.43	5.64	37.26	20.00	54.04	74.00	-19.96	Peak
	2	2500.00	38.04	27.40	5.66	37.26	20.00	53.84	74.00	-20.16	Peak

Туре		802.11	lb	Test cl	hannel	CH	H11	Р	olarity		Vertical
-	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	30.86	27.43	5.64	37.26	20.00	46.67	54.00	-7.33	Average
	2	2500.00	30.13	27.40	5.66	37.26	20.00	45.93	54.00	-8.07	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1	2483.49	38.31	27.43	5.64	37.26	20.00	54.12	74.00	-19.88	Peak
	2	2500.00	37.38	27.40	5.66	37.26	20.00	53.18	74.00	-20.82	Peak

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Туре		802.1	1b	Test c	hannel	CH	H01	P	olarity		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	2310.00	31.38	27.96	5.43	37.56	20.00	47.21	54.00	-6.79	Average
	2	2390.01	30.66	27.72	5.53	37.45	20.00	46.46	54.00	-7.54	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	37.38	27.96	5.43	37.56	20.00	53.21	74.00	-20.79	Peak
	2	2390.01	37.78	27.72	5.53	37.45	20.00	53.58	74.00	-20.42	Peak

Туре		802.11	lb	Test ch	nannel	CH	H01	Р	olarity		Vertical
-		Frequency MHz	dBuV/m	dB	dB	dB .	dB	-	-	limit	Remark
		2310.00 2390.01			5.43 3 5.53 3		20.00	46.06 47.90		-7.94 -6.10	Average Average
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prear dB	np Aux dB	Level dBuV/m	Limit dBuV/r		
	1 2	2310.00 2390.01	38.02 37.56	27.96 27.72		37.56 37.45		53.85 53.36	74.00 74.00	-20.15 -20.64	

Туре	e 802.11b			Test c	Test channel			CH11 Po			Horizontal
-	Mark 1 2	Frequency MHz 2483.49 2500.00	Reading dBuV/m 37.91 38.30	Antenna dB 27.43 27.40	dB 5.64	Pream dB 37.26 37.26	dB 20.00	Level dBuV/m 53.72 54.10	Limit dBuV/m 74.00 74.00	-20.28	it 3 Peak
-	Mark 1	Frequency MHz 2483.49	Reading dBuV/m 30.73	Antenna dB 27.43	dB	Preamp dB 37.26	Aux dB 20,00	Level dBuV/m	Limit dBuV/m 54.00	Over limit	Remark Average
	_	2500.00	30.01	27.40	5.66		20.00			-8.19	Average

Type	802.11b			Test ch	CH	l11	Р	olarity		Vertical	
-	1	Frequency MHz 2483.49 2500.00	Reading dBuV/m 37.67 37.87	Antenna dB 27.43 27.40	dB 5.64	Pream dB 37.26 37.26	dB 20.00	Level dBuV/m 53.48 53.67	Limit dBuV/m 74.00 74.00	-20.52	t Peak
-	Mark 1 2	Frequency MHz 2483.49 2500.00	dBuV/m 31.14	Antenna dB 27.43	dB	Preamp dB 37.26 37.26	Aux dB 20.00		Limit dBuV/m 54.00	Over limit -7.05	Remark Average Average

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Туре		802.11	g	Test cl	nannel	CH	H01	P	olarity		Horizontal
	Mark 1 2	Frequency MHz 2310.00 2390.01	Reading dBuV/m 26.34 26.30	Antenna dB 27.96 27.72	Cable dB 5.43 5.53	dB . 37.56	dB 20.00	Level dBuV/m 42.17 42.10	Limit dBuV/m 54.00 54.00		Remark Average Average
	Mark 1 2	Frequency MHz 2310.00 2390.01	Reading dBuV/m 37.17 37.20	Antenna dB 27.96 27.72	dB 5.43	Pream dB 37.56 37.45	dB 20.00	Level dBuV/m 53.00 53.00	Limit dBuV/ 74.00 74.00	m limi	it) Peak

Туре		802.11	1g	Test cl	nannel	CH	H01	P	olarity	Vertical
	1	Frequency MHz 2310.00 2390.01	dBuV/m 26.26	Antenna dB 27.96 27.72	dB	dB ['] 37.56	Aux dB 20.00 20.00		Limit Over dBuV/m limit 54.00 -11.91 54.00 -12.08	Remark Average Average
		Frequency MHz	dBuV/m	dB	dB	dB	. dB	Level dBuV/m		nit
	1 2	2310.00 2390.01	39.26 38.67	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	55.09 54.47	74.00 -18.9 74.00 -19.5	

Туре		802.11g			Test channel			CH11 Po			Horizontal
	Mark 1 2	Frequency MHz 2483.49 2500.00	Reading dBuV/m 38.04 38.11	Antenna dB 27.43 27.40	dB 5.64	Preampt dB 37.26 37.26	dB 20.00	Level dBuV/m 53.85 53.91	Limit dBuV/r 74.00	n limit	Remark t Peak Peak
	Mark 1	Frequency MHz 2483.49	Reading dBuV/m 26.02	Antenna dB 27.43	Cable dB 5.64	Preamp dB 37.26	Aux dB 20.00	Level dBuV/m	Limit dBuV/m 54.00	Over limit -12.17	Remark Average
	2	2500.00	25.90	27.40		37.26	20.00	41.70			Average

Туре	802.11g			Test c	CH	CH11		olarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over 1 limi	
	1	2483.49	36.93	27.43	5.64	37.26	20.00	52.74	74.00	-21.26	Peak
	2	2500.00	38.22	27.40	5.66	37.26	20.00	54.02	74.00	-19.98	Peak
	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	25.83	27.43	5.64	37.26	20.00	41.64	54.00	-12.36	Average
	2	2500.00	25.98	27.40	5.66	37.26	20.00	41.78	54.00	-12.22	Average

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Туре		802.1	1g	Test c	hannel	CI	1 01	Р	olarity		Horizontal
	1	Frequency MHz 2310.00 2390.01	Reading dBuV/m 38.42 37.68	Antenna dB 27.96 27.72	dB 5.43	dΒ	dB 20.00	Level dBuV/m 54.25 53.48		Over limit -19.75 -20.52	Remark Peak Peak
	1	Frequency MHz 2310.00 2390.01	Reading dBuV/m 26.32 25.97	Antenna dB 27.96 27.72	dB 5.43	Preamp dB 37.56 37.45	Aux dB 20.00 20.00	Level dBuV/m 42.15 41.77		-11.85	Remark Average Average

Туре		802.11g			hannel	CH	101	Polarity			Vertical
-	Mark	Frequency MHz	dBuV/m	dB	dB	dB	dB	dBuV/m			t
	2	2310.00 2390.01	37.95 36.96	27.96 27.72	5.43	37.56 37.45	20.00 20.00	53.78 52.76	74.00 74.00	-20.22 -21.24	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	26.18	27.96	5.43	37.56	20.00	42.01	54.00 -	11.99	Average
	2	2390.01	26.17	27.72	5.53	37.45	20.00	41.97	54.00 -	12.03	Average

Туре	802.11g			Test c	Cl	CH11 Po			Polarity		
•	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	25.83	27.43	5.64	37.26	20.00	41.64	54.00	-12.36	Average
	2	2500.00	25.93	27.40	5.66	37.26	20.00	41.73	54.00	-12.27	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	np Aux dB	Level dBuV/m	Limit dBuV/		
	1	2483.49	37.34	27.43	5.64	37.26	20.00	53.15	74.00	-20.89	5 Peak
	2	2500.00	38.53	27.40	5.66	37.26	20.00	54.33	74.00	-19.67	7 Peak

Туре	802.11g		Test ch	Test channel		CH11		olarity		Vertical	
-	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	25.85	27.43	5.64	37.26	20.00	41.66	54.00	-12.34	Average
	2	2500.00	25.85	27.40	5.66	37.26	20.00	41.65	54.00	-12.35	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream	ıp Aux dB	Level dBuV/m	Limit dBuV/		
	1	2483.49	36.35	27.43	5.64	37.26	20.00	52.16	74.00	-21.84	l Peak
	2	2500.00	37.77	27.40	5.66	37.26	20.00	53.57	74.00	-20.43	B Peak

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MIMO

Туре		802.1	1n(HT20)	Test ch	nannel	СН	01	P	olarity		Horizontal
	1	Frequency MHz 2310.00 2390.01	Reading dBuV/m 37.26 37.98	Antenna dB 27.96 27.72	dB 5.43	Preamp dB 37.56 37.45	dB 20.00	Level dBuV/m 53.09 53.78	Limit dBuV/m 74.00 74.00	Over limi -20.91 -20.22	t Peak
-	Mark	Frequency MHz	dBuV/m	Antenna dB	dB	dB .	dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	26.40 26.17	27.96 27.72	5.43 5.53	37.56 37.45	20.00 20.00	42.23 41.97	54.00 ·		Average Average

Туре		802.1	1n(HT20)	Test c	hannel	CH	H01	P	olarity		Vertical
	1	Frequency MHz 2310.00 2390.01	Reading dBuV/m 37.64 37.84	Antenna dB 27.96 27.72	dB 5.43	Pream dB 37.56 37.45	dB 20.00	Level dBuV/m 53.47 53.64	Limit dBuV/m 74.00 74.00	-20.5	it 3 Peak
		Frequency MHz	dBuV/m	Antenna dB	dB	dB .	dB	Level dBuV/m	dBuV/m	Over limit	Remark
	2	2310.00 2390.01	26.22 26.08	27.96 27.72		37.56 37.45	20.00 20.00		54.00 -1 54.00 -1	11.95 12.12	Average Average

Туре		802.1	1n(HT20)	Test c	hannel	CH	H11	P	Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1	2483.49	25.99	27.43	5.64	37.26	20.00	41.80	54.00 -12.20	Average
	2	2500.00	25.91	27.40	5.66	37.26	20.00	41.71	54.00 -12.29	Average
•	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m		ver Remark imit
	1	2483.49	36.85	27.43	5.64	37.26	20.00	52.66	74.00 -21.	.34 Peak
	2	2500.00	38.07	27.40	5.66	37.26	20.00	53.87	74.00 -20.	.13 Peak

Туре		802.1	1n(HT20)	Test ch	nannel	Cl	1 11	F	olarity		Vertical
Mar		equency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	248	3.49	25.93	27.43	5.64	37.26	20.00	41.74	54.00	-12.26	Average
2	250	0.00	26.05	27.40	5.66	37.26	20.00	41.85	54.00	-12.15	Average
Mark		equency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	ıp Aux dB	Level dBuV/m	Limit dBuV/		
1	248	3.49	36.91	27.43	5.64	37.26	20.00	52.72	74.00	-21.28	Peak
2	250	0.00	37.65	27.40	5.66	37.26	20.00	53.45	74.00	-20.55	Peak

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MIMO

Туре		802.1	1n(HT40)	Test cl	hannel	СН	03	Po	olarity		Horizontal
	Mar 1	k Frequency MHz 2310.00	/ Reading dBuV/m 26.23	Antenna dB 27.96	dB	Preamp dB 37.56	Aux dB 20.00	Level dBuV/m 42.06	Limit dBuV/m 54.00	Over limit -11.94	Remark Average
	2	2389.99	26.22	27.72	5.53	37.45	20.00	42.02	54.00	-11.98	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi:	
	1	2310.00	38.01	27.96	5.43	37.56	20.00	53.84	74.00	-20.16	Peak
	2	2389.99	37.82	27.72	5.53	37.45	20.00	53.62	74.00	-20.38	Peak

Туре			802.11	n(HT40)	Test c	hannel	C	H03		Polarity		Vertical
	Mar		equency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	231	.0.00	26.43	27.96	5.43	37.56	20.00	42.2	6 54.00	-11.74	Average
	2	238	9.99	26.46	27.72	5.53	37.45	20.00	42.2	6 54.00	-11.74	Average
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over limit	Remark
	1	2310	.00	37.77	27.96	5.43	37.56	20.00	53.60	74.00	-20.40	Peak
	2	2389	.99	37.33	27.72	5.53	37.45	20.00	53.13	74.00	-20.87	Peak

Туре		802.1	1n(HT40)	Test c	hannel	CH	109	P	olarity		Horizontal
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream	p Aux dB	Level dBuV/m	Limit dBuV/r		
	1	2483.50	37.72	27.43	5.64	37.26	20.00	53.53	74.00	-20.47	7 Peak
	2	2500.00	37.93	27.40	5.66	37.26	20.00	53.73	74.00	-20.27	7 Peak
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	26.54	27.43	5.64	37.26	20.00	42.35	54.00	-11.65	Average
	2	2500.00	26.05	27.40	5.66	37.26	20.00	41.85	54.00	-12.15	Average

Туре		802.11	In(HT40)	Test cl	nannel	CH	109	Po	olarity		Vertical
	1	Frequency MHz 2483.50 2500.00	Reading dBuV/m 38.61 38.03	Antenna dB 27.43 27.40	dB 5.64	Preamp dB 37.26 37.26	dB 20.00	Level dBuV/m 54.42 53.83	Limit dBuV/m 74.00 74.00	Over limi -19.58	t Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.50 2500.00	26.27 26.19	27.43 27.40	5.64 5.66	37.26 37.26	20.00 20.00		54.00 54.00	-11.92 -12.01	Average Average

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

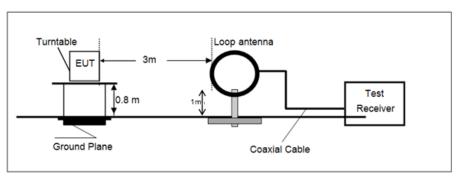
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

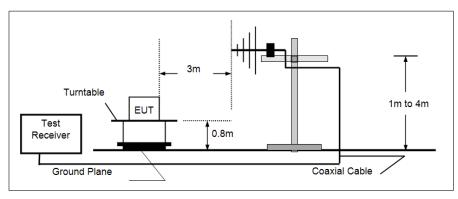
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz



> 30 MHz ~ 1 GHz



Above 1 GHz

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:

- 1) Level= Reading + Factor/Transd; Factor/Transd = 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) 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.

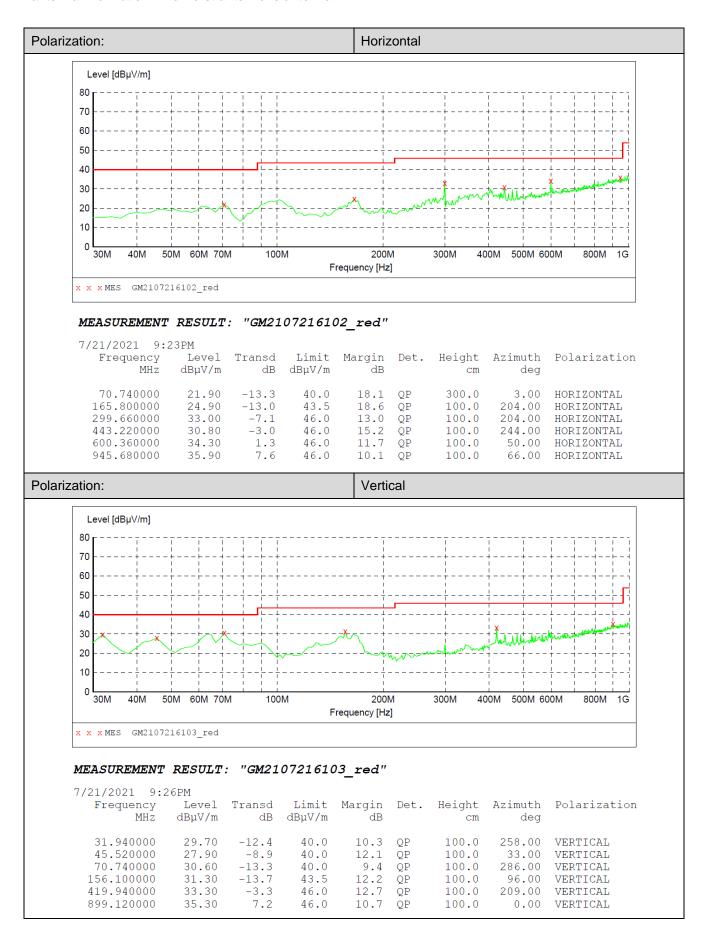
TEST DATA FOR 30 MHz ~ 1000 MHz

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

The EUT was pre-scanned all modulation mode and antenna. 802.11b/g/n in the report only displays the worst antenna information. The worst antenna is antenna 1.



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TEST DATA FOR 1 GHz ~ 25 GHz

_		200 441				21124		5 1 1			
Туре		802.11b		Test channel	(CH01		Polarity		Horizontal	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	0ver	Remark	
		MHz	dBuV/		dB	dB	dBuV/		limit		
	1	2168.08	39.00	27.88	5.26	37.39	34.75	74.00 -	-39.25	Peak	
	2	3795.66	39.77	29.59	7.12	37.06	39.42		-34.58	B Peak	
	3	6428.77	37.13	33.57	9.71	34.69	45.72		-28.28		
	4	8042.90	33.35	37.19	11.02	33.31	48.25	74.00 -	-25.75	Peak	
Туре		802.11b		Test channel	(CH01		Polarity	١	/ertical	
	Mark	Engage	Readin	g Antenna	Cable	Preamp	Leve	l Limit	Oven	Remark	
	Mark	Frequency MHz	dBuV/		dB	dB	dBuV/		Over limit		
	1	2151.59	40.10	27.72	5.23	37.37	35.68			2 Peak	
	2	3168.08	41.76	28.96	6.41	37.12	40.01		-33.99		
	3	6428.77	36.99	33.57	9.71	34.69	45.58		-28.42		
	4	8042.90	33.94	37.19	11.02	33.31	48.84	74.00	-25.10	5 Peak	
Туре		802.11b		Test channel	(CH06		Polarity	ŀ	Horizontal	
	Mark	Frequency	Readin		Cable		Leve		0ver	Remark	
		MHz	dBuV/		dB	dB	dBuV/		limi		
	1	1254.27	38.80	25.91	3.96	36.48	32.19			l Peak	
	2 3	3795.66	39.50	29.59	7.12	37.06	39.15 42.80		-34.89		
	4	5646.08 7941.19	36.42 34.66	31.90 36.88	9.48 10.85	35.00 33.32	49.07		-31.20	0 Peak 3 Peak	
	+	/941.19	34.00	30.00	10.05	33.32	49.07	74.00	-24.9	PEAK	
Туре		802.11b		Test channel	(CH06		Polarity	١	/ertical	
Туре											
Type	Mark	Frequency	Readi	ng Antenna	Cable	e Preamp	Leve	el Limit	 Over	Remark	
Туре		Frequency MHz	dBuV,	ng Antenna /m dB	Cable dB	e Preamp dB	dBuV,	el Limit /m dBuV/m	Over	Remark t	
Туре	1	Frequency MHz 1254.27	dBuV, 39.62	ng Antenna /m dB 25.91	Cable dB 3.96	Preamp dB 36.48	dBuV, 33.01	el Limit /m dBuV/m 74.00	Over limit	Remark t Peak	
Туре	1 2	Frequency MHz 1254.27 2972.75	dBuV, 39.62 42.44	ng Antenna /m dB 25.91 28.70	Cable dB 3.96 6.18	Preamp dB 36.48 37.46	dBuV, 33.01 39.86	el Limit /m dBuV/m 74.00	Over limit -40.99	Remark t 9 Peak 4 Peak	
Type	1	Frequency MHz 1254.27	dBuV, 39.62	ng Antenna /m dB 25.91 28.70 34.04	Cable dB 3.96	Preamp dB 36.48	dBuV, 33.01	el Limit /m dBuV/m 74.00 74.00 74.00	Over limit -40.99	Remark t Peak	
	1 2 3	Frequency MHz 1254.27 2972.75 6511.12 8063.40	dBuV, 39.62 42.44 36.87	ng Antenna /m dB 25.91 28.70 34.04 37.20	Cable dB 3.96 6.18 9.74 11.08	Preamp dB 36.48 37.46 34.72 33.32	dBuV, 33.01 39.86 45.93	Limit /m dBuV/m 74.00 74.00 74.00 74.00	Over limit -40.99 -34.14 -28.00	Remark t 9 Peak 4 Peak 7 Peak 3 Peak	
Type	1 2 3	Frequency MHz 1254.27 2972.75 6511.12	dBuV, 39.62 42.44 36.87	ng Antenna /m dB 25.91 28.70 34.04	Cable dB 3.96 6.18 9.74 11.08	Preamp dB 36.48 37.46 34.72	dBuV, 33.01 39.86 45.93	el Limit /m dBuV/m 74.00 74.00 74.00	Over limit -40.99 -34.14 -28.00	Remark t 9 Peak 4 Peak 7 Peak	
	1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b	dBuV, 39.62 42.44 36.87 33.26	ng Antenna /m dB 25.91 28.70 34.04 37.20	Cable dB 3.96 6.18 9.74 11.08	e Preamp dB 36.48 37.46 34.72 33.32	dBuV, 33.01 39.86 45.93 48.22	El Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00	Over limit -40.99 -34.14 -28.00 -25.76	Remark t 9 Peak 4 Peak 7 Peak 8 Peak	
	1 2 3	Frequency MHz 1254.27 2972.75 6511.12 8063.40	dBuV, 39.62 42.44 36.87	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel	Cable dB 3.96 6.18 9.74 11.08	e Preamp dB 36.48 37.46 34.72 33.32	dBuV, 33.01 39.86 45.93	Polarity Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity	Over limit -40.99 -34.14 -28.00	Remark t 9 Peak 4 Peak 7 Peak 8 Peak Horizontal	
	1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b	dBuV 39.62 42.44 36.87 33.26	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel	Cable dB 3.96 6.18 9.74 11.08	e Preamp dB 36.48 37.46 34.72 33.32 CH11	dBuV, 33.01 39.86 45.93 48.22	Polarity Plant Limit M	Over limit -40.99 -34.14 -28.00 -25.76	Remark t 9 Peak 4 Peak 7 Peak 8 Peak Horizontal	
	1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV/	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel	Cable dB 3.96 6.18 9.74 11.08	Preamp dB 36.48 37.46 34.72 33.32 CH11	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV,	Polarity Plant Limit M	Over limit -40.99 -34.14 -28.00 -25.76 	Remark t 9 Peak 4 Peak 7 Peak 8 Peak Horizontal Remark t 8 Peak	
	1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV/ 38.56	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel	Cable dB 3.96 6.18 9.74 11.08 (Cable dB 4.01	Preamp dB 36.48 37.46 34.72 33.32 CH11	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22	Polarity Plant	Over limit -40.99 -34.14 -28.00 -25.70 	Remark t 9 Peak 4 Peak 7 Peak 8 Peak Horizontal Remark t 8 Peak 8 Peak	
	1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV/ 38.56 38.75	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09	Cable dB 3.96 6.18 9.74 11.08 (Cable dB 4.01 6.79	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02	Polarity Plant	Over 1imin -40.99 -34.14 -28.00 -25.76 	Remark t 9 Peak 4 Peak 7 Peak 8 Peak Horizontal Remark t 8 Peak 8 Peak	
	1 2 3 4 4 Mark 1 2 3	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV/ 38.56 38.75 36.86	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09 34.26	Cable dB 3.96 6.18 9.74 11.08 Cable dB 4.01 6.79 9.78 11.68	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28	Polarity Plant	Over 1imi-41.76-27.77-24.6	Remark t 9 Peak 4 Peak 7 Peak 3 Peak Horizontal Remark t 8 Peak 8 Peak 2 Peak	
Туре	1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75 9734.78 802.11b	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV/ 38.56 38.75 36.86 34.51	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09 34.26 39.60 Test channel	Cable dB 3.96 6.18 9.74 11.08 Cable dB 4.01 6.79 9.78 11.68	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62 36.41	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28 49.38	Polarity	Over 1imir -40.99 -34.14 -28.00 -25.76	Remark t 9 Peak 4 Peak 7 Peak 3 Peak Horizontal Remark t 8 Peak 8 Peak 2 Peak /ertical	
Туре	1 2 3 4 4 Mark 1 2 3	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75 9734.78 802.11b Frequency	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV/ 38.56 38.75 36.86 34.51	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel /m dB 25.98 29.09 34.26 39.60 Test channel	Cable dB 3.96 6.18 9.74 11.08 Cable dB 4.01 6.79 9.78 11.68	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62 36.41 CH11	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28 49.38	Polarity Polarity Polarity Polarity Polarity Limit M ABUV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity Polarity	Over 1imir -40.9% -34.14 -28.07 -25.78	Remark t Peak Peak Peak Peak Remark t Remark t Peak Peak Peak Peak Peak Peak Peak Remark	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75 9734.78 802.11b Frequency MHz	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV, 38.56 38.75 36.86 34.51	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09 34.26 39.60 Test channel	Cable dB 3.96 6.18 9.74 11.08 (Cable dB 4.01 6.79 9.78 11.68 (Cable dB	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62 36.41 CH11 Preamp dB	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28 49.38	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 74.00 74.00 Polarity	Over 1imir -40.9% -34.14 -28.07 -25.78	Remark t 9 Peak 4 Peak 7 Peak 3 Peak Horizontal Remark t 8 Peak 2 Peak 2 Peak /ertical	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75 9734.78 802.11b Frequency MHz 1289.89	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV, 38.56 34.51 Readir dBuV, 38.77	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09 34.26 39.60 Test channel	Cable dB 3.96 6.18 9.74 11.08 Cable dB 4.01 6.79 9.78 11.68 Cable dB 4.01	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62 36.41 CH11 Preamp dB 36.33	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28 49.38	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 74.00 74.00	Over 1imir -40.9% -34.14 -28.07 -25.78	Remark t Peak Peak Peak Remark Remark t Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75 9734.78 802.11b Frequency MHz 1289.89 3168.08	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV, 38.56 34.51 Readir dBuV, 38.77 41.14	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09 34.26 39.60 Test channel ng Antenna /m dB 25.98 29.09	Cable dB 3.96 6.18 9.74 11.08 Cable dB 4.01 6.79 9.78 11.68 Cable dB 4.01 6.41	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62 36.41 CH11 Preamp dB 36.33 37.12	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28 49.38 Leve dBuV/ 32.43 39.39	Polarity Polarity Polarity Polarity 1 Limit M BuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	Over limit -41.57 -34.61	Remark t Peak Peak Peak Remark Remark t Remark t Remark t Remark t Peak Peak Peak Peak	
Type	1 2 3 4 Mark Mark 1 2 3 4	Frequency MHz 1254.27 2972.75 6511.12 8063.40 802.11b Frequency MHz 1289.89 3498.74 6577.75 9734.78 802.11b Frequency MHz 1289.89	dBuV, 39.62 42.44 36.87 33.26 Readir dBuV, 38.56 34.51 Readir dBuV, 38.77	ng Antenna /m dB 25.91 28.70 34.04 37.20 Test channel ng Antenna /m dB 25.98 29.09 34.26 39.60 Test channel	Cable dB 3.96 6.18 9.74 11.08 Cable dB 4.01 6.79 9.78 11.68 Cable dB 4.01	Preamp dB 36.48 37.46 34.72 33.32 CH11 Preamp dB 36.33 36.61 34.62 36.41 CH11 Preamp dB 36.33	dBuV, 33.01 39.86 45.93 48.22 Leve dBuV, 32.22 38.02 46.28 49.38	Polarity Polarity Polarity Polarity 1 Limit M BuV/m 74.00	Over limit-41.57-34.61-28.07	Remark t Peak Peak Peak Remark Remark t Remark t Remark t Remark t Peak Peak Peak Peak	

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ANTI											
Туре		802.11b		Test channel	(CH01		Polarity		Hor	rizontal
	Mark	Frequency	Readir	ng Antenna	Cable	e Preamp	Leve	l Limit	Ove	er	Remark
		MHz	dBuV/		dB	dB	dBuV,		lin		
	1	1719.78	39.60	25.14	4.64	37.13	32.25	74.00	-41.	.75	Peak
	2	4034.78	38.52	29.97	7.41		39.60	74.00	-34.	.40	Peak
	3	6428.77	35.61	33.57	9.71	34.69	44.20	74.00	-29.	.80	Peak
	4	9251.58	33.90	39.01	11.65	36.13	48.43	74.00	-25.	.57	Peak
Туре		802.11b		Test channel		CH01		Polarity		Ver	tical
	Mark	Frequency		_	Cable		Leve		0ve		Remark
		MHz	dBuV/		dB	dB	dBuV/		lim		
	1	1689.41	39.34	25.10	4.60		31.92	74.00		08 F	
	2	3168.08	41.02	28.96	6.41		39.27	74.00		73 F	
	3	5086.52	35.60	32.20	8.92		41.26	74.00		74 F	
	4	8104.56	33.24	37.18	11.21	33.33	48.30	74.00	-25.	70 F	Peak
Туре		802.11b		Test channel		CH06		Polarity		Hor	rizontal
	Mark	Frequency	Readir	ng Antenna	Cable	e Preamp	Leve	el Limit	0νε	er l	Remark
		MHz	dBuV/	/m dB	dB	dB	dBuV/	m dBuV/m	lin	nit	
	1	1309.74	38.96	26.06	4.04	36.32	32.74		-41.	.26	Peak
	2	3463.29	39.34	28.95	6.76	36.56	38.49	74.00	-35.	.51	Peak
	3	5086.52	36.49	32.20	8.92	35.46	42.15	74.00	-31.	.85	Peak
	4	8083.96	33.08	37.20	44 45	22.22	48.11	74.00	25	20	Peak
			55.00	37.20	11.15	33.32	40.11	74.00	-25.	.09	Cuit
Туре		802.11b	33100	Test channel		CH06	40.11	Polarity	-25.		tical
Туре			33100				40.11		-25.		
Туре	Mark			Test channel		CH06		Polarity	-25. Ove	Ver	
Туре	Mark	802.11b		Test channel	(CH06		Polarity		Ver	tical
Туре	Mark 1	802.11b	Readi	Test channel	Cabl	CH06 Preamp dB	Leve	Polarity	Ove lin	Ver	tical Remark
Type		802.11b Frequency MHz	Readir dBuV,	Test channel	Cable dB	CH06 Preamp dB 36.57	Leve dBuV/	Polarity el Limit /m dBuV/m	Ove lin	Ver	tical Remark Peak
Type	1	802.11b Frequency MHz 1232.12	Readir dBuV,	Test channel	Cable dB 3.92	CH06 Preamp dB 36.57 36.92	Leve dBuV, 32.31	Polarity el Limit /m dBuV/m 74.00	Ove lin -41.	Ver	tical Remark Peak Peak
Туре	1 2	802.11b Frequency MHz 1232.12 3367.66	Readir dBuV, 39.17 41.29	Test channel	Cablo dB 3.92 6.66	CH06 Preamp dB 36.57 36.92 35.47	Leve dBuV, 32.31 39.50	Polarity el Limit /m dBuV/m 74.00 74.00	Ove lin -41. -34.	Ver	tical Remark Peak Peak Peak
Type	1 2 3	802.11b Frequency MHz 1232.12 3367.66 4760.78	Readir dBuV, 39.17 41.29 37.41	Test channel ng Antenna /m dB 25.79 28.47 31.40	Cable dB 3.92 6.66 8.34 11.15	CH06 Preamp dB 36.57 36.92 35.47	Leve dBuV, 32.31 39.50 41.68	Polarity l Limit /m dBuV/m	Ove lin -41. -34.	Ver	tical Remark Peak Peak Peak
	1 2 3	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96	Readir dBuV, 39.17 41.29 37.41	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20	Cable dB 3.92 6.66 8.34 11.15	CH06 Preamp dB 36.57 36.92 35.47 33.32	Leve dBuV, 32.31 39.50 41.68	Polarity Limit /m dBuV/m 74.00 74.00 74.00 74.00	Ove lin -41. -34.	Ver	tical Remark Peak Peak Peak Peak
	1 2 3	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96	Readir dBuV, 39.17 41.29 37.41 33.69	Test channel ng Antenna /m dB 25.79 28.47 31.40 37.20 Test channel	Cable dB 3.92 6.66 8.34 11.15	CH06 Preamp dB 36.57 36.92 35.47 33.32	Leve dBuV, 32.31 39.50 41.68 48.72	Polarity Limit M	Ove lin -41. -34.	Ver	tical Remark Peak Peak Peak Peak
	1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b	Readir dBuV, 39.17 41.29 37.41 33.69	Test channel ng Antenna /m dB 25.79 28.47 31.40 37.20 Test channel	Cable dB 3.92 6.66 8.34 11.15	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11	Leve dBuV, 32.31 39.50 41.68 48.72	Polarity 1 Limit 1 MBUV/m 174.00 174.00 174.00 174.00 74.00 Polarity	Ove lin -41. -34. -32. -25.	Ver	tical Remark Peak Peak Peak Peak Pizontal
	1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency	Readir dBuV, 39.17 41.29 37.41 33.69	Test channel ng Antenna /m dB 25.79 28.47 31.40 37.20 Test channel	Cable dB 3.92 6.66 8.34 11.15	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB	Leve dBuV, 32.31 39.50 41.68 48.72	Polarity 21 Limit /m dBuV/m	Ove lin -41. -34. -32. -25.	Ver	tical Remark Peak Peak Peak Peak Pizontal Remark
	1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz	Readir dBuV, 39.17 41.29 37.41 33.69 Readir dBuV,	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30	Cable dB 3.92 6.66 8.34 11.15 (Cable dB dB dB	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV,	Polarity 21 Limit /m dBuV/m	Ove lin -41. -34. -32. -25. Ove lin -41.	Ver	tical Remark Peak Peak Peak Pizontal Remark
	1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75	Readir dBuV, 39.17 41.29 37.41 33.69 Readir dBuV, 39.72	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56	Cable dB 3.92 6.66 8.34 11.15 (Cable dB 3.85	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47	Polarity 21 Limit /m dBuv/m	Ove lin -41. -34. -32. -25. Ove lin -41.	Ver	tical Remark Peak Peak Peak Pizontal Remark Peak Peak
	1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89	Readin dBuV, 39.17 41.29 37.41 33.69 Readin dBuV, 39.72 37.80	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26	Cabld dB 3.92 6.66 8.34 11.15 (abld dB 3.85 7.77 9.78	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78	Polarity 21 Limit /m dBuv/m	Ove lin -41. -34. -32. -25. Ove lin -41. -34.	Ver	rical Remark Peak Peak Peak Pizontal Remark Peak Peak Peak
	1 2 3 4 	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75	Readin dBuV, 39.17 41.29 37.41 33.69 Readin dBuV, 39.72 37.80 36.47	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26	Cable dB 3.92 6.66 8.34 11.15 (Cable dB 3.85 7.77 9.78 11.84	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34.	Ver	rical Remark Peak Peak Peak Pizontal Remark Peak Peak Peak
Туре	1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75 9884.60 802.11b	Readin dBuV, 39.17 41.29 37.41 33.69 Readin dBuV, 39.72 37.80 36.47 34.58	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26 39.50 Test channel	Cable dB 3.92 6.66 8.34 11.15 (Cable dB 3.85 7.77 9.78 11.84	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62 36.87	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34.	Ver	rical Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75 9884.60	Readir dBuV, 39.17 41.29 37.41 33.69 Readir dBuV, 39.72 37.80 36.47 34.58	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26 39.50 Test channel	Cable 3.92 6.66 8.34 11.15 (able 3.85 7.77 9.78 11.84	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62 36.87 CH11	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89 49.05	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34. -28. -24.	Ver	rical Remark Peak Peak Peak Peak Peak Peak Peak Pea
Type	1 2 3 4 4 Mark 1 2 3 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75 9884.60 802.11b	Readin dBuV, 39.17 41.29 37.41 33.69 Readin dBuV, 39.72 37.80 36.47 34.58	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26 39.50 Test channel	Cable 8.34 11.15 Cable dB 3.85 7.77 9.78 11.84	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62 36.87 CH11	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89 49.05	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34. -28. -24.	Ver	rical Remark Peak Peak Peak Pizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
Type	1 2 3 4 4 Mark 1 Mark 1	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75 9884.60 802.11b Frequency MHz 1222.74	Readir dBuV, 39.17 41.29 37.41 33.69 Readir dBuV, 39.72 37.80 36.47 34.58	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26 39.50 Test channel Test channel mg Antenna /m dB 25.74	Cable 3.92 6.66 8.34 11.15 (able 3.85 7.77 9.78 11.84	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62 36.87 CH11	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89 49.05	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34. -28. -24.	Ver	rical Remark Peak Peak Peak Pizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 4 Mark 1 2 3 4 4	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75 9884.60 802.11b Frequency MHz 1222.74 3168.08	Readir dBuV, 39.17 41.29 37.41 33.69 Readir dBuV, 39.72 37.80 36.47 34.58	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26 39.50 Test channel Test channel mg Antenna /m dB 25.74 28.96	Cable 3.92 6.66 8.34 11.15 (able dB 3.85 7.77 9.78 11.84	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62 36.87 CH11	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89 49.05	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34. -28. -24.	Ver	rical Remark Peak Peak Peak Pizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea
Туре	1 2 3 4 4 Mark 1 Mark 1	802.11b Frequency MHz 1232.12 3367.66 4760.78 8083.96 802.11b Frequency MHz 1188.98 4299.89 6577.75 9884.60 802.11b Frequency MHz 1222.74	Readir dBuV, 39.17 41.29 37.41 33.69 Readir dBuV, 39.72 37.80 36.47 34.58	Test channel mg Antenna /m dB 25.79 28.47 31.40 37.20 Test channel mg Antenna /m dB 25.56 30.30 34.26 39.50 Test channel Test channel mg Antenna /m dB 25.74	Cable 3.92 6.66 8.34 11.15 Cable dB 3.85 7.77 9.78 11.84 Cable dB 3.91	CH06 Preamp dB 36.57 36.92 35.47 33.32 CH11 Preamp dB 36.66 36.09 34.62 36.87 CH11 Preamp dB 36.66 36.09 34.62 36.87	Leve dBuV, 32.31 39.50 41.68 48.72 Leve dBuV, 32.47 39.78 45.89 49.05	Polarity 21	Ove lin -41. -34. -32. -25. Ove lin -41. -34. -28. -24.	Ver	rical Remark Peak Peak Peak Pizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea