

Global United Technology Services Co., Ltd.

Report No.: GTS201807000026F03

FCC Report (WIFI)

Applicant: Quantum Creations LLC.

Address of Applicant: 15705 NW 13th Ave, Miami Gardens, Miami Beach, Florida

33169, United States

MELE TECHNOLOGIES(SHENZHEN) CO.,LTD Manufacturer/Factory:

3FW, Mele Building, No.28 Cuijing Road, Pingshan District, Address of

Manufacturer/Factory: Shenzhen (518118) P.R.China

Equipment Under Test (EUT)

Product Name: Access3

Model No.: A-1164-AA3, A-1164-AA3-1, A-1164-AA3-2, A-1164-AA3-3,

A-1164-AA3-4, A-1164-AA3-5, A-1164-AA3-6, A-1164-AA3-7,

A-1164-AA3-8, A-1164-AA3-9, A-1164-AA3-10, A-1164-AA3-11, A-1164-AA3-12, A-1164-AA3-13,

A-1164-AA3-14, A-1164-AA3-15, A-1164-AA3-16,

A-1164-AA3-17, A-1164-AA3-18

Trade Mark: AZULLE

FCC ID: 2AFJI20171164

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: July 03, 2018

Date of Test: July 04-16, 2018

Date of report issued: July 16, 2018

Test Result: PASS *

Authorized Signature:

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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



2 Version

Version No.	Date	Description
00	July 16, 2018	Original

Prepared By:	Bill. Yvan	Date:	July 16, 2018
	Project Engineer		
Check By:	() obinsonla	Date:	July 16, 2018

Reviewer



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remark: Test according to ANSI C63.10:2013.

Pass: The EUT complies with the essential requirements in the standard.

Measurement Uncertainty

•			
Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.



5 General Information

5.1 General Description of EUT

•	General Description of	
	Product Name:	Access3
	Model No.:	A-1164-AA3, A-1164-AA3-1, A-1164-AA3-2, A-1164-AA3-3,
		A-1164-AA3-4, A-1164-AA3-5, A-1164-AA3-6, A-1164-AA3-7,
		A-1164-AA3-8, A-1164-AA3-9, A-1164-AA3-10, A-1164-AA3-11,
		A-1164-AA3-12, A-1164-AA3-13, A-1164-AA3-14,
		A-1164-AA3-15, A-1164-AA3-16, A-1164-AA3-17,
		A-1164-AA3-18
	Test Model No:	A-1164-AA3
		identical in the same PCB layout, interior structure and electrical be the CPU, RAM, storage and/or operating system for commercial
	Serial No.:	3305120784137
	Test Sample(s) ID:	GTS201807000026-1
	Sample(s) Status	Engineer sample
	Hardware Version:	PCHD27-APL3-272-V1.10
	Software Version:	win10
	Operation Frequency:	2412MHz~2462MHz(802.11b/802.11g/802.11n(HT20))
		2422MHz~2452MHz(802.11n(HT40))
	Channel Numbers:	802.11b/802.11g /802.11n(HT20): 11
		802.11n(HT40):7
	Channel Separation:	5MHz
	Modulation Technology:	802.11b: Direct Sequence Spread Spectrum (DSSS)
		802.11g/802.11n(H20)/802.11n(HT40):
	Antonno Tunos	Orthogonal Frequency Division Multiplexing (OFDM)
	Antenna Type:	ANT 1: Integral Antenna
		ANT 2: FPCB Antenna
	Antenna Gain:	ANT 1: 3.7dBi
	Power Supply:	ANT 2: 0.5dBi
	rowei Suppiy.	SWITCHING ADAPTER:
		Model No.:FJ-SW0503000N
		Input: AC 100~240V~50/60Hz 0.6A Max
		Output: DC 5V 3A

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



Operation Frequency each of channel							
Channel Frequency Channel Frequency Channel F					Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Toot channel	Frequency (MHz)			
Test channel	802.11b/802.11g/802.11n(HT20)	802.11n(HT40)		
Lowest channel	2412MHz	2422MHz		
Middle channel	2437MHz	2437MHz		
Highest channel	2462MHz	2452MHz		



5.2 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, the dutycycle >98%, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)
Data rate	1Mbps	6Mbps	6.5Mbps	13Mbps

5.3 Description of Support Units

None

5.4 Test Facility

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

• FCC —Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383, January 08, 2018.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, August 15, 2016.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960



5.6 Additional Instructions

EUT Fixed Frequency Settings:

Power level setup	Power level setup						
Support Units	Description	Manufacturer	Model				
	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500				
Mode	Channel Frequency (Level Set				
802.11b/g/n(HT20)	CH1	2412					
	CH6	2437					
	CH11	2462					
802.11n(HT40)	CH3	2422	TX level : default				
	CH6	2437					
	CH9	2452					



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6 Test Instruments list

Radi	iated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	July. 03 2015	July. 02 2020
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019



Conduc	ted Emission					
Item	Test Equipment	Manufacturer Model No.		Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019
5	Coaxial Cable	GTS	N/A	GTS227	N/A	N/A
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019

Conc	ducted:					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019
8	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
9	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019

Gene	General used equipment:											
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019						
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019						



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a 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.

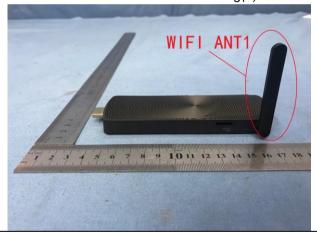
15.247(c) (1)(i) requirement:

(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 6dBi 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 6dBi.

EUT Antenna:

The antenna 1 is Integral antenna. The best case gain of the antenna is 3.7dBi. The antenna 2 is FPCB antenna. The best case gain of the antenna is 0.5dBi. Directional Gain Calculations is below:

The Directional Gain = GANT + 10log(2) dBi = 3.7 + 3.01 dBi = 6.71dBi.







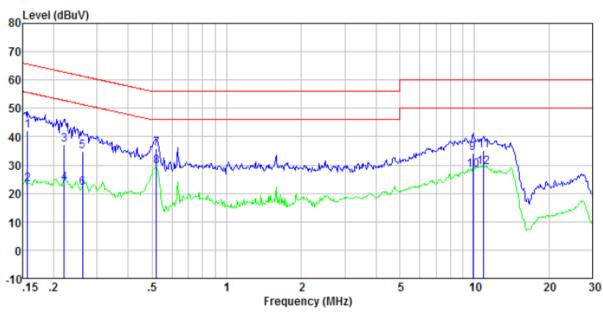
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:	Frequency range (MHz)	lBuV)					
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*				
	0.15-0.5	56	46				
	5-30	60	50				
	* Decreases with the logarithm						
Test setup:	Reference Plane	, ,					
	AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line impedence Stabilization Network Test table height=0.8m	Filter — AC pow					
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 500hm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 500hm/50uH coupling impedance with 500hm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. 						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						



Measurement data

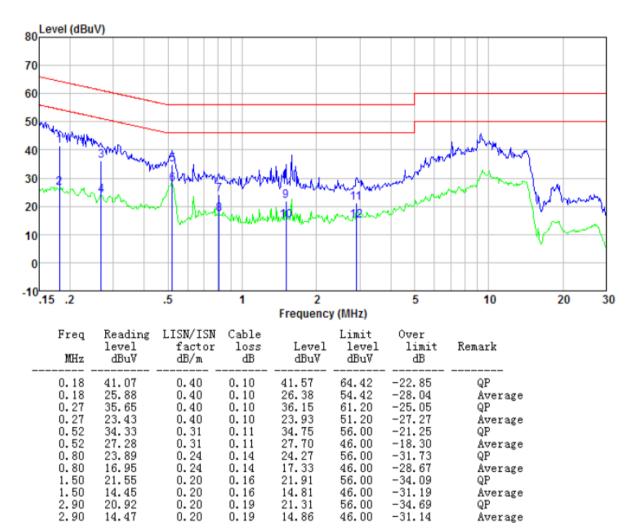
Line:



Freq MHz	Reading level dBuV	LISN/ISN factor dB/m	Cable loss dB	Level dBuV	Limit level dBuV	Over limit dB	Remark
0. 16 0. 16 0. 22 0. 22	41.74 22.64 36.81 22.96	0.40 0.40 0.40 0.40	0.08 0.08 0.11 0.11	42. 22 23. 12 37. 32 23. 47	65.60 55.60 62.79 52.79	-23.38 -32.48 -25.47 -29.32	QP Average QP
0.26 0.26 0.52	34.22 21.48 35.49	0.40 0.40 0.31	0.10 0.10 0.11	34.72 21.98 35.91	61.38 51.38 56.00	-26.66 -29.40 -20.09	Average QP Average QP
0.52 9.86 9.86 10.90 10.90	28.96 33.77 27.75 34.69 28.73	0.31 0.20 0.20 0.20 0.20	0.11 0.20 0.20 0.20 0.20	29.38 34.17 28.15 35.09 29.13	46.00 60.00 50.00 60.00 50.00	-16.62 -25.83 -21.85 -24.91 -20.87	Average QP Average QP Average



Neutral:

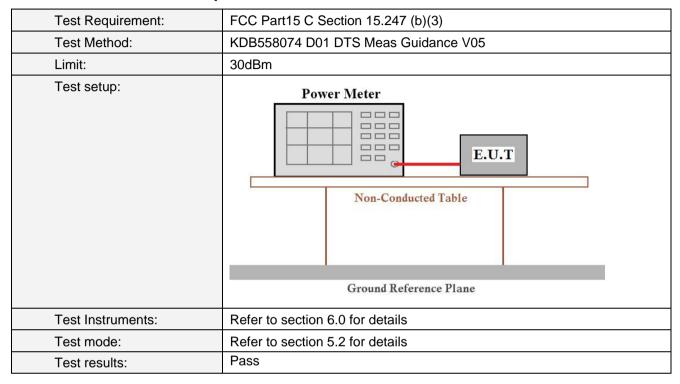


Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Conducted Peak Output Power



Measurement Data



Test mode	Channel	Read Le	evel (dBm)	Read Level (mW)	Total Peak Output Power (mW)	Total Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	ANT1	12.67	18.49	36.44	15.62		
	LOWEST	ANT2	12.54	17.94	30.44	15.02		
802.11b	Middle	ANT1	13.01	19.99	39.45	15.96		
	iviluale	ANT2	12.89	19.45	39.43	15.90		
	Highest ANT1 13.31	21.43	42.18	16.25				
	riigiiesi	ANT2	13.17	20.75	42.10	10.25		
	Lowest	ANT1	11.64	14.59	29.45	14.69		
	LOWEST	ANT2	11.72	14.86	29.45	14.09		
802.11g	Middle	ANT1	12.76	18.88	35.71	15.53		
802.11g	iviluale	ANT2	2 12.26 16.83	16.83	35.71			
	Highest	ANT1	10.15	10.35	21.47	13.32		
	riigiiesi	ANT2	10.46	11.12	21.47	13.32	30.00	Pass
	Lowest	ANT1	11.11	12.91	26.65	14.26	30.00	FdSS
	Lowest	ANT2	11.38	13.74	20.05	14.20		
802.11n	Middle	ANT1	11.71	14.83	30.72	14.87		
(HT20)	iviluale	ANT2	12.01	15.89	30.72	14.07		
	Highest	ANT1	9.86	9.68	19.70	12.95		
	riigiiesi	ANT2	10.01	10.02	19.70	12.93		
	Lowest	ANT1	10.18	10.42	22.11	22.11 13.45		
	LOWEST	ANT2	10.68	11.69	22.11			
802.11n	Middle	ANT1	10.93	12.39	25.45	14.06		
(HT40)	iviluule	ANT2	11.16	13.06	20.40	14.00		
	Highort	ANT1	9.33	8.57	17.99	12.55		
	Highest	ANT2	9.74	9.42	17.99	12.55		



7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)		
Test Method:	KDB558074 D01 DTS Meas Guidance V05		
Limit:	>500KHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.2 for details		
Test results:	Pass		

Measurement Data

Antenna 1:

Test CH		Channel Bandwidth (MHz)						
	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(KHz)	Result		
Lowest	9.584	16.299	15.767	35.214				
Middle	9.940	16.021	17.537	35.405	>500	Pass		
Highest	9.410	16.288	17.322	35.718				

Antenna 2:

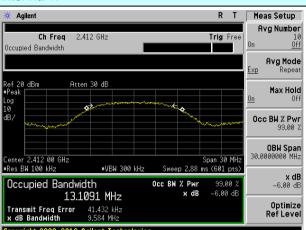
Test		Limit	Result			
СН	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(KHz)	Resuit
Lowest	9.500	15.747	17.190	35.199		
Middle	9.608	15.720	17.262	35.212	>500	Pass
Highest	9.544	16.353	17.160	35.226		



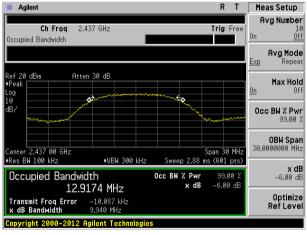
Test plot as follows:

Test mode: 802.11b

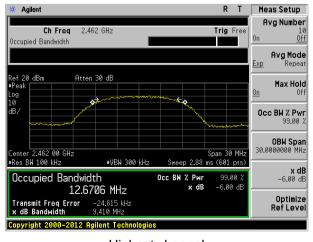
Antenna 1:



Lowest channel

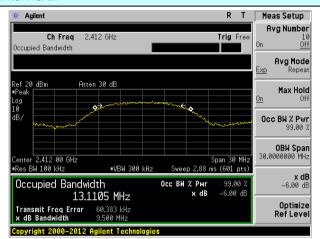


Middle channel

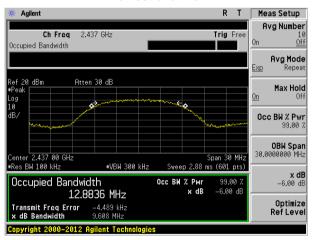


Highest channel

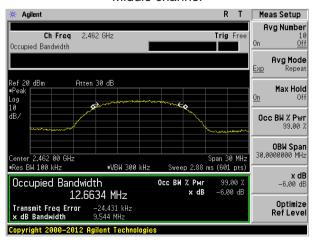
Antenna 2:



Lowest channel



Middle channel



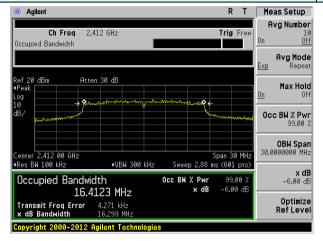
Highest channel

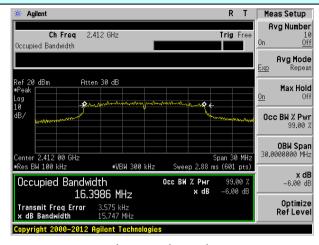


Test mode: 802.11g

Antenna 1:

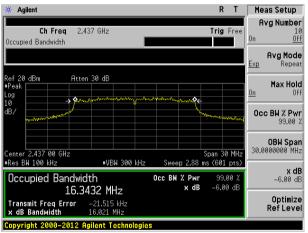
Antenna 2:

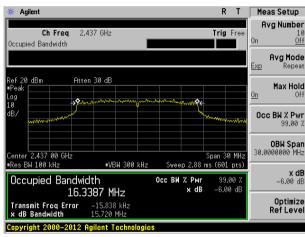




Lowest channel

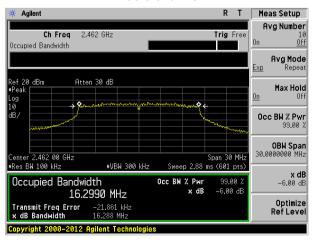
Lowest channel

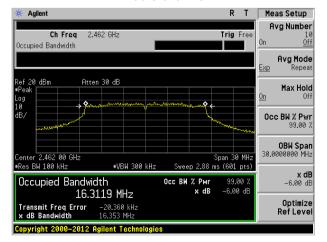




Middle channel

Middle channel





Highest channel

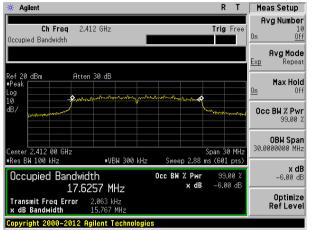
Highest channel

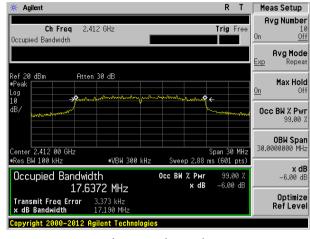
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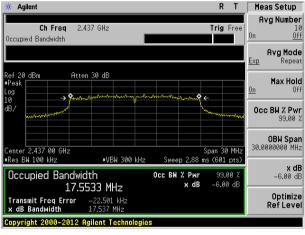
Test mode: 802.11n(HT20)

Antenna 2: Antenna 1:

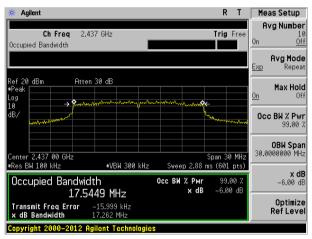




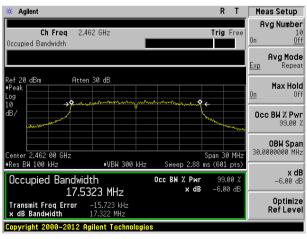
Lowest channel



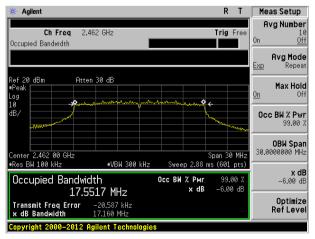
Lowest channel



Middle channel



Middle channel



Highest channel Highest channel

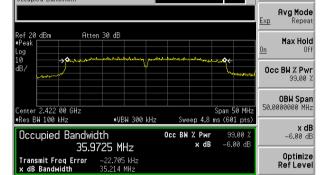


Test mode: 802.11n(HT40)

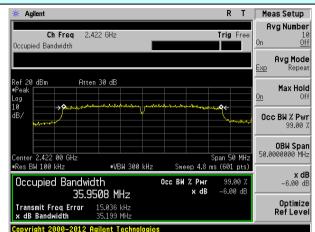
Copyright 2000-2012 Agilent Technologies

Antenna 1:

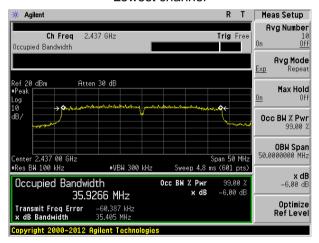
** Agillent R T Meas Setup Ch Freq 2.422 GHz Trig Free 10 On Off Occupied Bandwidth 0n Off



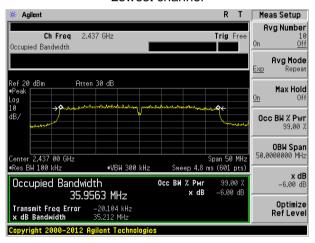
Antenna 2:



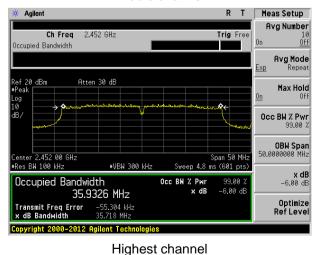
Lowest channel



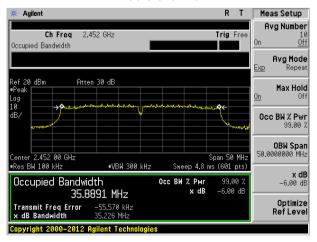
Lowest channel



Middle channel



Middle channel



Highest channel

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7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)			
Test Method:	KDB558074 D01 DTS Meas Guidance V05			
Limit:	8dBm/3kHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 6.0 for details			
Test mode:	Refer to section 5.2 for details			
Test results:	Pass			



Measurement Data

Antenna 1:

Test		Power Spectra	l Density (dBm)		Limit	Pocult
СН	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Result
Lowest	1.17	-1.98	-2.17	-5.32		
Middle	0.80	-1.12	-1.77	-4.75	8.00	Pass
Highest	0.75	-3.10	-3.45	-6.08		

Antenna 2:

Test		Power Spectra	l Density (dBm)		Limit	Deculé
СН	802.11b	802.11g	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Result
Lowest	1.19	-1.50	-1.90	-5.33		
Middle	1.38	-1.11	-1.37	-4.32	8.00	Pass
Highest	0.72	-2.97	-3.40	-5.91		

AN1+AN2:

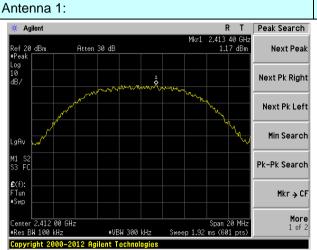
Test		Power Spectral I	Density (dBm)		Limit	Docult
СН	В	G	802.11n(HT20)	802.11n(HT40)	(dBm/3kHz)	Result
Lowest	4.20	1.28	0.96	-2.32		
Middle	4.11	1.89	1.44	-1.61	8.00	Pass
Highest	3.75	-0.02	0.91	-2.99		



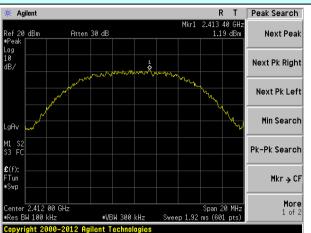
Test plot as follows:

Test mode: 802.11b

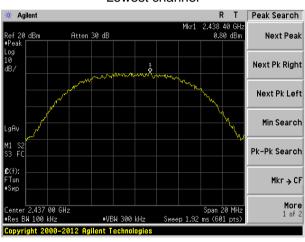
1000111000.0



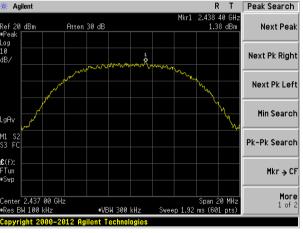
Antenna 2:



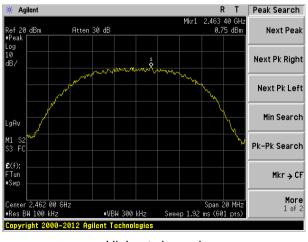
Lowest channel



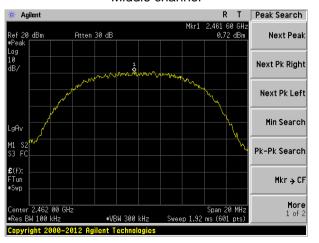
Lowest channel



Middle channel



Middle channel



Highest channel

Highest channel

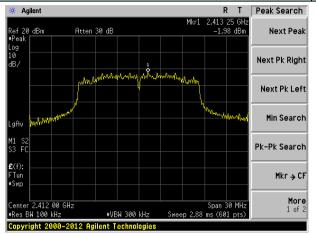
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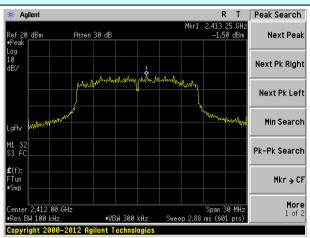


Test mode: 802.11g

• • •

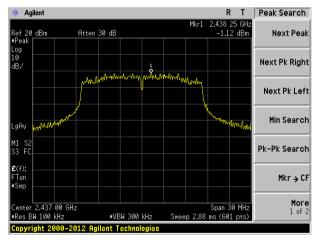
Antenna 1: Antenna 2:

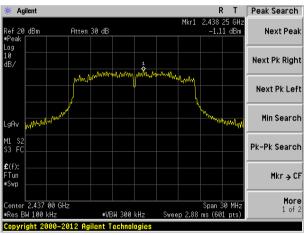




Lowest channel

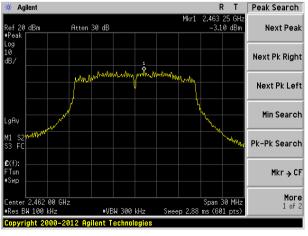
nel Lowest channel

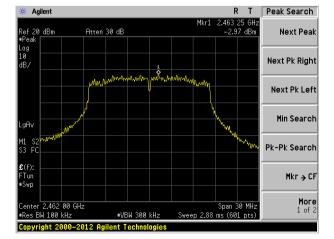




Middle channel

Middle channel





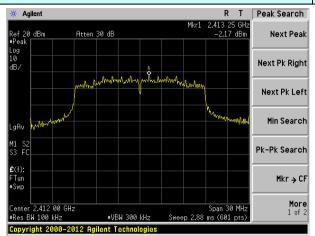
Highest channel

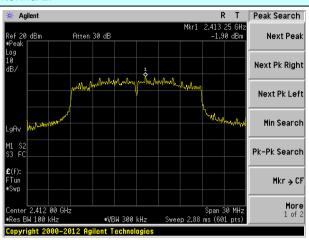
Highest channel



Test mode: 802.11n(HT20)

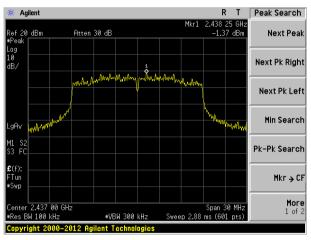
Antenna 1: Antenna 2:



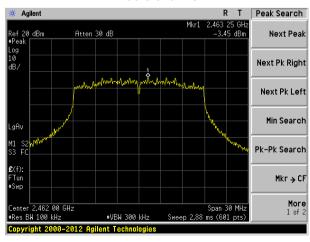


Lowest channel

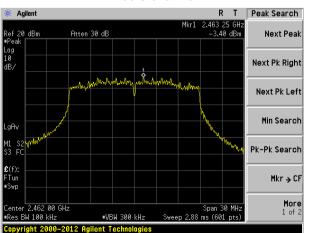
Lowest channel



Middle channel



Middle channel



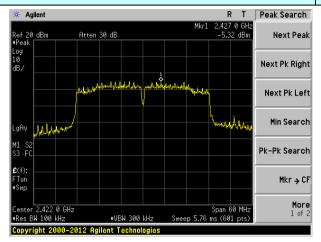
Highest channel Highest channel

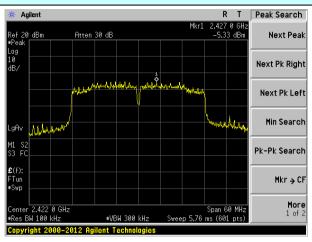


Test mode: 802.11n(HT40)

Antenna 1:

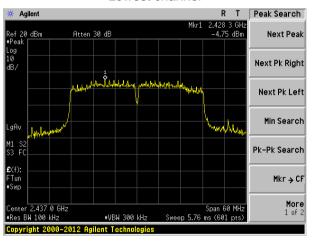
Antenna 2:

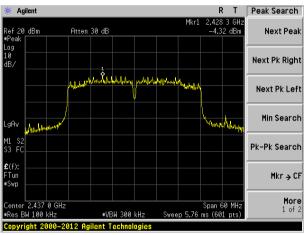




Lowest channel

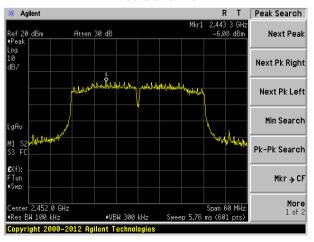
Lowest channel

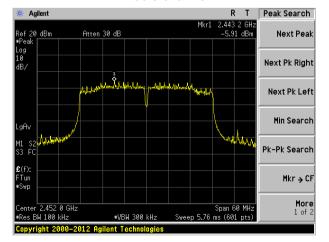




Middle channel

Middle channel





Highest channel

Highest channel



7.6 Band edges

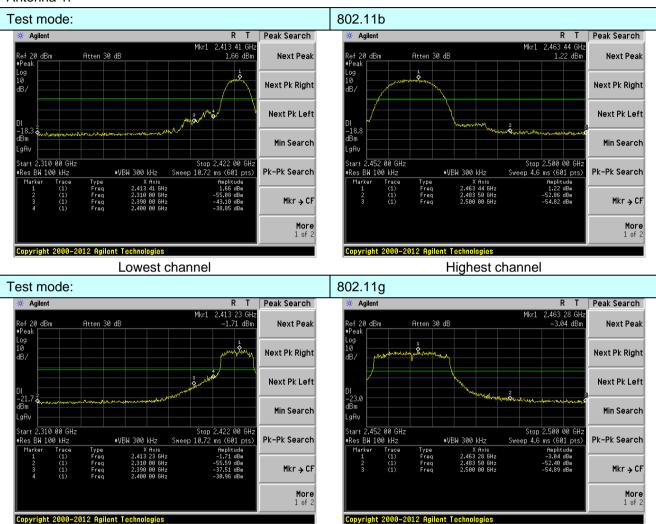
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	KDB558074 D01 DTS Meas Guidance V05						
Limit:	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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane						
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test results:	Pass						



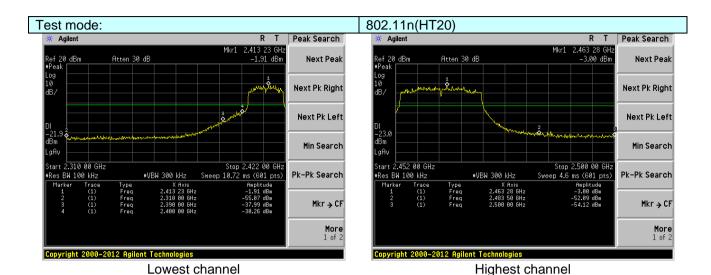
Test plot as follows:

Antenna 1:

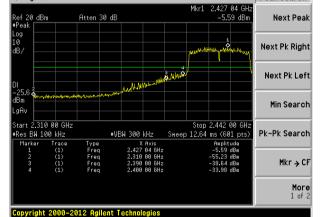


Lowest channel Highest channel









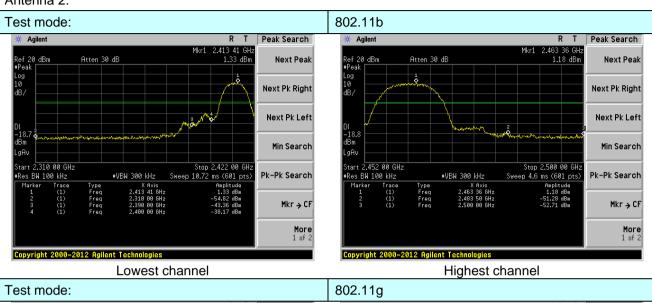


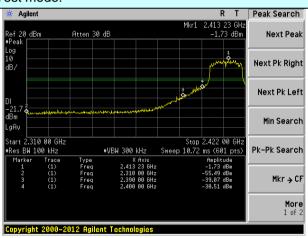


Highest channel

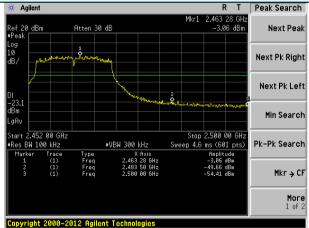


Antenna 2:



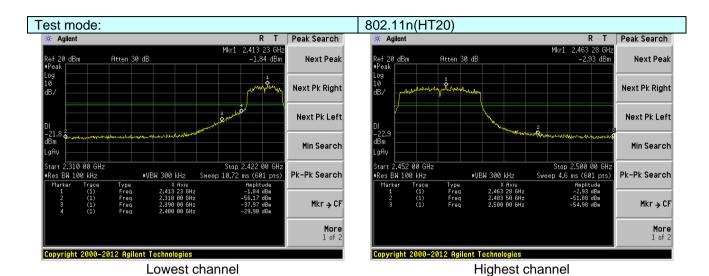


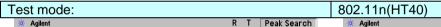
Lowest channel

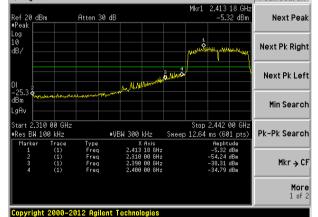


Highest channel









Lowest channel



Highest channel



7.6.2 Radiated Emission Method

Test Requirement: Test Method: ANSI C63.10:2013 Test Frequency Range: All of the restrict bands were tested, only the worst band's (2310MHz 2500MHz) data was showed. Test site: Receiver setup: Receiver setup: Frequency Above 1GHz Peak Average Above 1GHz Test setup: Test setup: Test setup: Test setup: FCC Part15 C Section 15.209 and 15.205 ANSI C63.10:2013 All of the restrict bands were tested, only the worst band's (2310MHz 2500MHz) Peak OF ABW ABW ABW ABW ABW ABW ABW ABW AVERAGE AVERAGE AVERAGE AVERAGE ABOVE 1GHZ Test setup:	Test Requirement:
2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Above 1GHz Peak 1MHz 3MHz Average Average 1MHz 3MHz Average Average 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 54.00 Average Test setup: 74.00 Peak	
2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Above 1GHz Peak 1MHz 3MHz Average Average 1MHz 3MHz Average Average 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz 54.00 Average Test setup: 74.00 Peak	
Receiver setup: Frequency Detector RBW VBW Value VBW Peak 1MHz 3MHz Peak Average 1MHz 3MHz Average 1MHz 3MHz Average Imit (dBuV/m @3m) Value S4.00 Average Above 1GHz Test setup: Test setup:	
Above 1GHz Peak 1MHz 3MHz Peak Average 1MHz 3MHz Average Limit: Frequency Limit (dBuV/m @3m) Value Above 1GHz Above 1GHz 54.00 Average 74.00 Peak Test setup: 74.00 Peak	Test site:
Above 1GHz	Receiver setup:
Average 1MHz 3MHz Average	
Above 1GHz	
Test setup:	Limit:
Test setup:	
Tum Table Im 4m >v leave the second of t	
 Test Procedure: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenn tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst cate and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak value of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi peak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. 	Test Procedure:
Test Instruments: Refer to section 6.0 for details	Test Instruments:



Lowest

Test mode:	Refer to section 5.2 for details
Test results:	Pass

Test channel:

Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

802.11b

ANT 1:

Test mode:

Peak value	:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	51.37	27.59	5.38	34.01	50.33	74.00	-23.67	Horizontal
2400.00	60.29	27.58	5.39	34.01	59.25	74.00	-14.75	Horizontal
2390.00	53.03	27.59	5.38	34.01	51.99	74.00	-22.01	Vertical
2400.00	62.01	27.58	5.39	34.01	60.97	74.00	-13.03	Vertical
Average va	lue:	•		•	•		•	_

7 11 0 1 tigo 1 ti									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prear Facto (dB)	or .	Level (dBuV/m)	Limit Line (dBuV/m	I I imit	Polarization
2390.00	38.21	27.59	5.38	34.0	1	37.17	54.00	-16.83	Horizontal
2400.00	46.47	27.58	5.39	34.0	1	45.43	54.00	-8.57	Horizontal
2390.00	40.01	27.59	5.38	34.0	1	38.97	54.00	-15.03	Vertical
2400.00	47.58	27.58	5.39	34.0	1	46.54	54.00	-7.46	Vertical
Test mode:		802.1	1b		Tes	t channel:		Highest	

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	51.90	27.53	5.47	33.92	50.98	74.00	-23.02	Horizontal
2500.00	47.82	27.55	5.49	29.93	50.93	74.00	-23.07	Horizontal
2483.50	54.10	27.53	5.47	33.92	53.18	74.00	-20.82	Vertical
2500.00	50.28	27.55	5.49	29.93	53.39	74.00	-20.61	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	38.53	27.53	5.47	33.92	37.61	54.00	-16.39	Horizontal
2500.00	34.69	27.55	5.49	29.93	37.80	54.00	-16.20	Horizontal
2483.50	40.45	27.53	5.47	33.92	39.53	54.00	-14.47	Vertical
2500.00	36.56	27.55	5.49	29.93	39.67	54.00	-14.33	Vertical

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone,

Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102



Report No.: GTS201807000026F03

Test mode:		802.1	1g	Te	est channel:		Lowest	
Peak value:	:			<u>.</u>				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization
2390.00	50.63	27.59	5.38	34.01	49.59	74.00	-24.41	Horizontal
2400.00	59.30	27.58	5.39	34.01	58.26	74.00	-15.74	Horizontal
2390.00	52.24	27.59	5.38	34.01	51.20	74.00	-22.80	Vertical
2400.00	60.83	27.58	5.39	34.01	59.79	74.00	-14.21	Vertical
Average va	lue:			•	•	•	•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Limit	Polarization
2390.00	37.69	27.59	5.38	34.01	36.65	54.00	-17.35	Horizontal
2400.00	45.87	27.58	5.39	34.01	44.83	54.00	-9.17	Horizontal
2390.00	39.43	27.59	5.38	34.01	38.39	54.00	-15.61	Vertical
2400.00	46.92	27.58	5.39	34.01	45.88	54.00	-8.12	Vertical
Test mode:		802.1	1g	Te	Test channel: Highest			
Peak value:	:	_			_			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	50.85	27.53	5.47	33.92	49.93	74.00	-24.07	Horizontal
2500.00	47.01	27.55	5.49	29.93	50.12	74.00	-23.88	Horizontal
2483.50	52.90	27.53	5.47	33.92	51.98	74.00	-22.02	Vertical
2500.00	49.32	27.55	5.49	29.93	52.43	74.00	-21.57	Vertical
Average va	lue:							
Frequency (MHz)	Read Level	Antenna Factor	Cable Loss	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
(1011 12)	(dBuV)	(dB/m)	(dB)	(GD)				
2483.50		(dB/m) 27.53	(db) 5.47	33.92	36.98	54.00	-17.02	Horizontal
, ,	(dBuV)	` '			36.98 37.30	54.00 54.00	-17.02 -16.70	Horizontal Horizontal
2483.50	(dBuV) 37.90	27.53	5.47	33.92				

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Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:

Peak value:

Report No.: GTS201807000026F03

Lowest

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.61	27.59	5.38	34.01	49.57	74.00	-24.43	Horizontal
2400.00	59.28	27.58	5.39	34.01	58.24	74.00	-15.76	Horizontal
2390.00	52.22	27.59	5.38	34.01	51.18	74.00	-22.82	Vertical
2400.00	60.79	27.58	5.39	34.01	59.75	74.00	-14.25	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.67	27.59	5.38	34.01	36.63	54.00	-17.37	Horizontal
2400.00	45.85	27.58	5.39	34.01	44.81	54.00	-9.19	Horizontal
2390.00	39.41	27.59	5.38	34.01	38.37	54.00	-15.63	Vertical
2400.00	46.90	27.58	5.39	34.01	45.86	54.00	-8.14	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	H	lighest	
Peak value	:	· · · · · · · · · · · · · · · · · · ·			•	1		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.82	27.53	5.47	00.00				
	00.02	27.53	5.47	33.92	49.90	74.00	-24.10	Horizontal
2500.00	46.98	27.55	5.49	29.93	49.90 50.09	74.00 74.00	-24.10 -23.91	Horizontal Horizontal
2500.00 2483.50								
	46.98	27.55	5.49	29.93	50.09	74.00	-23.91	Horizontal
2483.50	46.98 52.87 49.30	27.55 27.53	5.49 5.47	29.93 33.92	50.09 51.95	74.00 74.00	-23.91 -22.05	Horizontal Vertical
2483.50 2500.00	46.98 52.87 49.30	27.55 27.53	5.49 5.47	29.93 33.92	50.09 51.95	74.00 74.00	-23.91 -22.05	Horizontal Vertical
2483.50 2500.00 Average va Frequency	46.98 52.87 49.30 Ilue: Read Level	27.55 27.53 27.55 Antenna Factor	5.49 5.47 5.49 Cable Loss	29.93 33.92 29.93 Preamp Factor	50.09 51.95 52.41 Level	74.00 74.00 74.00 Limit Line	-23.91 -22.05 -21.59 Over Limit	Horizontal Vertical Vertical
2483.50 2500.00 Average va Frequency (MHz)	46.98 52.87 49.30 Ilue: Read Level (dBuV)	27.55 27.53 27.55 Antenna Factor (dB/m)	5.49 5.47 5.49 Cable Loss (dB)	29.93 33.92 29.93 Preamp Factor (dB)	50.09 51.95 52.41 Level (dBuV/m)	74.00 74.00 74.00 Limit Line (dBuV/m)	-23.91 -22.05 -21.59 Over Limit (dB)	Horizontal Vertical Vertical Polarization
2483.50 2500.00 Average va Frequency (MHz) 2483.50	46.98 52.87 49.30 Ilue: Read Level (dBuV) 37.88	27.55 27.53 27.55 Antenna Factor (dB/m) 27.53	5.49 5.47 5.49 Cable Loss (dB) 5.47	29.93 33.92 29.93 Preamp Factor (dB) 33.92	50.09 51.95 52.41 Level (dBuV/m) 36.96	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00	-23.91 -22.05 -21.59 Over Limit (dB) -17.04	Horizontal Vertical Vertical Polarization Horizontal
2483.50 2500.00 Average va Frequency (MHz) 2483.50 2500.00	46.98 52.87 49.30 Ilue: Read Level (dBuV) 37.88 34.18	27.55 27.53 27.55 Antenna Factor (dB/m) 27.53 27.55	5.49 5.47 5.49 Cable Loss (dB) 5.47 5.49	29.93 33.92 29.93 Preamp Factor (dB) 33.92 29.93	50.09 51.95 52.41 Level (dBuV/m) 36.96 37.29	74.00 74.00 74.00 Limit Line (dBuV/m) 54.00 54.00	-23.91 -22.05 -21.59 Over Limit (dB) -17.04 -16.71	Horizontal Vertical Vertical Polarization Horizontal Horizontal

Test channel:

802.11n(HT20)

1. 2. Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.1	1n(HT40)	Т	est channel:	L	_owest	
Peak value:				•		•		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.94	27.59	5.38	34.01	48.90	74.00	-25.10	Horizontal
2400.00	58.37	27.58	5.39	34.01	57.33	74.00	-16.67	Horizontal
2390.00	51.50	27.59	5.38	34.01	50.46	74.00	-23.54	Vertical
2400.00	59.71	27.58	5.39	34.01	58.67	74.00	-15.33	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.19	27.59	5.38	34.01	36.15	54.00	-17.85	Horizontal
2400.00	45.30	27.58	5.39	34.01	44.26	54.00	-9.74	Horizontal
2390.00	38.87	27.59	5.38	34.01	37.83	54.00	-16.17	Vertical
2400.00	46.29	27.58	5.39	34.01	45.25	54.00	-8.75	Vertical
Test mode:		802.1	1n(HT40)	T	est channel:	ŀ	Highest	
Peak value:	:						_	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.86	27.53	5.47	33.92	48.94	74.00	-25.06	Horizontal
2500.00	46.23	27.55	5.49	29.93	49.34	74.00	-24.66	Horizontal
2483.50	51.77	27.53	5.47	33.92	50.85	74.00	-23.15	Vertical
2500.00	48.42	27.55	5.49	29.93	51.53	74.00	-22.47	Vertical
Average va	lue:					1	1	,
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.30	27.53	5.47	33.92	36.38	54.00	-17.62	Horizontal
2500.00	33.72	27.55	5.49	29.93	36.83	54.00	-17.17	Horizontal
2483.50	39.09	27.53	5.47	33.92	38.17	54.00	-15.83	Vertical
2500.00	35.54	27.55	5.49	29.93	38.65	54.00	-15.35	Vertical

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.



ANT 2:

71111 21									
Test mode:		802.1	1b	Te	st channel:		Lowest		
Peak value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2390.00	51.36	27.59	5.38	34.01	50.32	74.00	-23.68	Horizontal	
2400.00	60.28	27.58	5.39	34.01	59.24	74.00	-14.76	Horizontal	
2390.00	53.02	27.59	5.38	34.01	51.98	74.00	-22.02	Vertical	
2400.00	62.00	27.58	5.39	34.01	60.96	74.00	-13.04	Vertical	
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2390.00	38.20	27.59	5.38	34.01	37.16	54.00	-16.84	Horizontal	
2400.00	46.47	27.58	5.39	34.01	45.43	54.00	-8.57	Horizontal	
2390.00	40.00	27.59	5.38	34.01	38.96	54.00	-15.04	Vertical	
2400.00	47.57	27.58	5.39	34.01	46.53	54.00	-7.47	Vertical	
Test mode:		802.1	1b	Te	st channel:		Highest		
Peak value									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2483.50	51.89	27.53	5.47	33.92	50.97	74.00	-23.03	Horizontal	
2500.00	47.81	27.55	5.49	29.93	50.92	74.00	-23.08	Horizontal	
2483.50	54.09	27.53	5.47	33.92	53.17	74.00	-20.83	Vertical	
2500.00	50.27	27.55	5.49	29.93	53.38	74.00	-20.62	Vertical	
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
2483.50	38.53	27.53	5.47	33.92	37.61	54.00	-16.39	Horizontal	
2500.00	34.68	27.55	5.49	29.93	37.79	54.00	-16.21	Horizontal	
2483.50	40.45	27.53	5.47	33.92	39.53	54.00	-14.47	Vertical	

2500.00 Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

5.49

2. The emission levels of other frequencies are very lower than the limit and not show in test report.

29.93

39.66

54.00

36.55

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

27.55

-14.34

Vertical



Report No.: GTS201807000026F03

Test mode:		802.1	1g		Tes	t channel:		Lowest	
Peak value:				•					
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	50.73	27.59	5.38	34.01	ı	49.69	74.00	-24.31	Horizontal
2400.00	59.43	27.58	5.39	34.01	1	58.39	74.00	-15.61	Horizontal
2390.00	52.35	27.59	5.38	34.01	I	51.31	74.00	-22.69	Vertical
2400.00	60.98	27.58	5.39	34.01	1	59.94	74.00	-14.06	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2390.00	37.76	27.59	5.38	34.01	ı	36.72	54.00	-17.28	Horizontal
2400.00	45.95	27.58	5.39	34.01	I	44.91	54.00	-9.09	Horizontal
2390.00	39.50	27.59	5.38	34.01	1	38.46	54.00	-15.54	Vertical
2400.00	47.00	27.58	5.39	34.01	I	45.96	54.00	-8.04	Vertical
Test mode:		802.1	1g		Tes	t channel:		Highest	
Peak value:	•	•		1				1	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	50.99	27.53	5.47	33.92	2	50.07	74.00	-23.93	Horizontal
2500.00	47.11	27.55	5.49	29.93	3	50.22	74.00	-23.78	Horizontal
2483.50	53.06	27.53	5.47	33.92	2	52.14	74.00	-21.86	Vertical
2500.00	49.45	27.55	5.49	29.93	3	52.56	74.00	-21.44	Vertical
Average va	lue:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	r	Level (dBuV/m)	Limit Line (dBuV/m)	I I imit	Polarization
2483.50	37.98	27.53	5.47	33.92	2	37.06	54.00	-16.94	Horizontal
2500.00	34.26	27.55	5.49	29.93	3	37.37	54.00	-16.63	Horizontal
2483.50	39.85	27.53	5.47	33.92	2	38.93	54.00	-15.07	Vertical
2500.00 Remark:	36.10	27.55	5.49	29.93	3	39.21	54.00	-14.79	Vertical

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2.} The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:

Peak value:

Report No.: GTS201807000026F03

Lowest

reak value.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	50.54	27.59	5.38	34.01	49.50	74.00	-24.50	Horizontal
2400.00	59.19	27.58	5.39	34.01	58.15	74.00	-15.85	Horizontal
2390.00	52.15	27.59	5.38	34.01	51.11	74.00	-22.89	Vertical
2400.00	60.68	27.58	5.39	34.01	59.64	74.00	-14.36	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.62	27.59	5.38	34.01	36.58	54.00	-17.42	Horizontal
2400.00	45.80	27.58	5.39	34.01	44.76	54.00	-9.24	Horizontal
2390.00	39.35	27.59	5.38	34.01	38.31	54.00	-15.69	Vertical
2400.00	46.84	27.58	5.39	34.01	45.80	54.00	-8.20	Vertical
Test mode:		802.1	1n(HT20)	Tes	st channel:	F	lighest	
Peak value:		1						,
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	50.73	27.53	5.47	33.92	49.81	74.00	-24.19	Horizontal
2500.00	46.91	27.55	5.49	29.93	50.02	74.00	-23.98	Horizontal
2483.50	52.76	27.53	5.47	33.92	51.84	74.00	-22.16	Vertical
2500.00	49.21	27.55	5.49	29.93	52.32	74.00	-21.68	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.82	27.53	5.47	33.92	36.90	54.00	-17.10	Horizontal
2500.00	34.13	27.55	5.49	29.93	37.24	54.00	-16.76	Horizontal
2483.50	39.67	27.53	5.47	33.92	38.75	54.00	-15.25	Vertical
2500.00	35.97	27.55	5.49	29.93	39.08	54.00	-14.92	Vertical
Remark:								

Test channel:

802.11n(HT20)

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Test mode:		802.1	1n(HT40)	Te	st channel:	L	owest	
Peak value	:					_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	49.87	27.59	5.38	34.01	48.83	74.00	-25.17	Horizontal
2400.00	58.29	27.58	5.39	34.01	57.25	74.00	-16.75	Horizontal
2390.00	51.43	27.59	5.38	34.01	50.39	74.00	-23.61	Vertical
2400.00	59.60	27.58	5.39	34.01	58.56	74.00	-15.44	Vertical
Average va	lue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	37.14	27.59	5.38	34.01	36.10	54.00	-17.90	Horizontal
2400.00	45.25	27.58	5.39	34.01	44.21	54.00	-9.79	Horizontal
2390.00	38.82	27.59	5.38	34.01	37.78	54.00	-16.22	Vertical
2400.00	46.23	27.58	5.39	34.01	45.19	54.00	-8.81	Vertical
Test mode:		802.1	1n(HT40)	Те	st channel:	H	Highest	
Peak value	<u> </u>				_	_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	49.76	27.53	5.47	33.92	48.84	74.00	-25.16	Horizontal
2500.00	46.16	27.55	5.49	29.93	49.27	74.00	-24.73	Horizontal
2483.50	51.66	27.53	5.47	33.92	50.74	74.00	-23.26	Vertical
2500.00	48.34	27.55	5.49	29.93	51.45	74.00	-22.55	Vertical
Average va	lue:	1		1	•	7	7	1
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.24	27.53	5.47	33.92	36.32	54.00	-17.68	Horizontal
2500.00	33.68	27.55	5.49	29.93	36.79	54.00	-17.21	Horizontal
2483.50	39.03	27.53	5.47	33.92	38.11	54.00	-15.89	Vertical
2500.00	35.49	27.55	5.49	29.93	38.60	54.00	-15.40	Vertical
Remark:								

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Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

The emission levels of other frequencies are very lower than the limit and not show in test report.



7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)							
Test Method:	KDB558074 D01 DTS Meas Guidance V05							
Limit:	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 setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane							
Test Instruments:	Refer to section 6.0 for details							
Test mode:	Refer to section 5.2 for details							
Test results:	Pass							



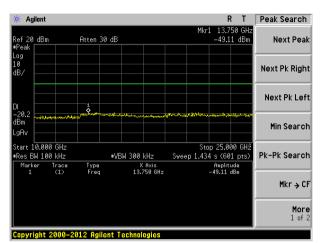
Test plot as follows:

Antenna 1:

Test mode:

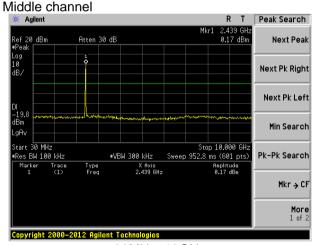
Lowest channel R T Peak Search Atten 30 dB Next Peak Next Pk Right Next Pk Left Min Search Start 30 MHz Res BW 100 kHz Stop 10.000 GH: Sweep 952.8 ms (601 pts) #VBW 300 kHz Pk-Pk Search Trace (1) Type Freq X fixis 2.406 GHz Mkr → CF Copyright 2000-2012 Agilent Technologies

30MHz~10GHz

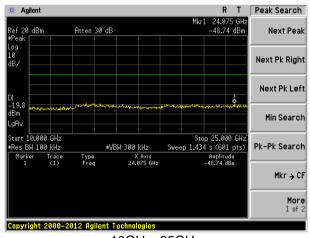


802.11b

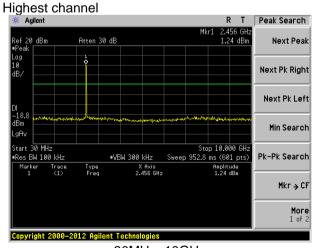
10GHz~25GHz



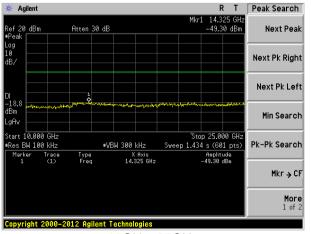
30MHz~10GHz



10GHz~25GHz



30MHz~10GHz



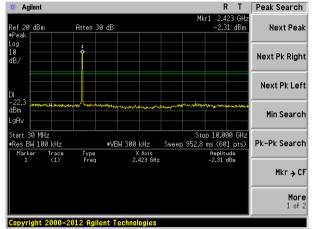
10GHz~25GHz



Test mode:

802.11g

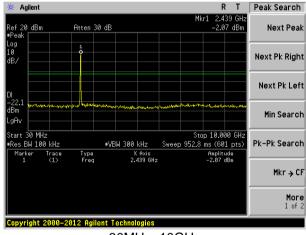
Lowest channel



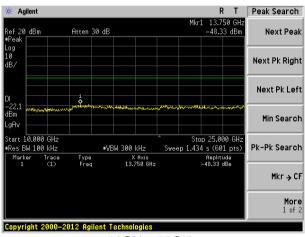
30MHz~10GHz

10GHz~25GHz

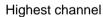
Middle channel

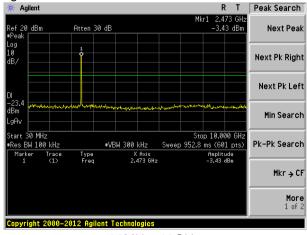


30MHz~10GHz

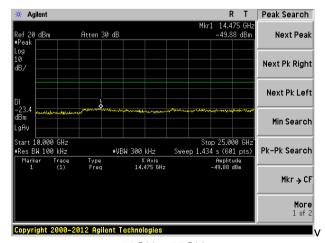


10GHz~25GHz





30MHz~10GHz



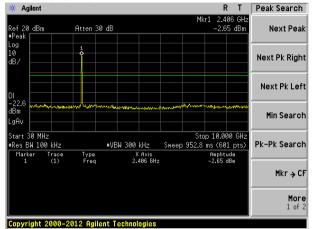
10GHz~25GHz



Test mode:

802.11n(HT20)

Lowest channel

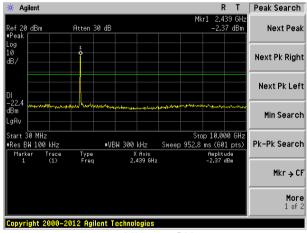


30MHz~10GHz

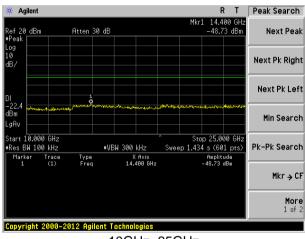
10GHz~25GHz

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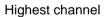
Middle channel

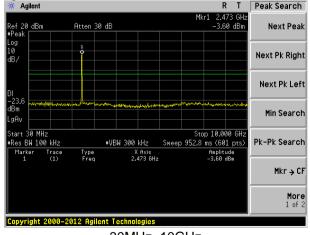


30MHz~10GHz

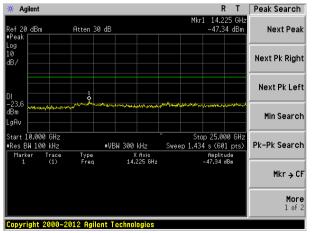


10GHz~25GHz





30MHz~10GHz



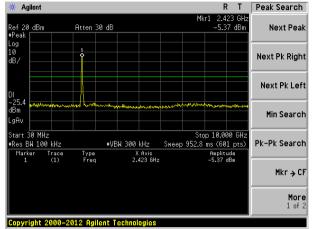
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

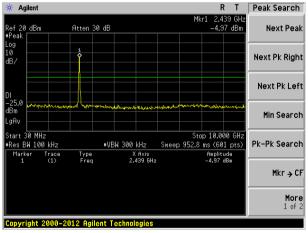


30MHz~10GHz

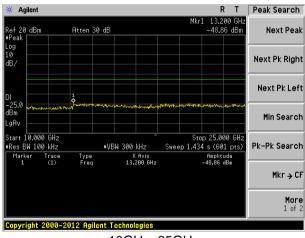
* Agilent R T Peak Search 13.825 GHz -49.77 dBm Atten 30 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Stop 25.000 GH: Sweep 1.434 s (601 pts) Start 10.000 GHz •Res BW 100 kHz Pk-Pk Search #VBW 300 kHz Type Frea X Axis 13.825 GHz Amplitude -49.77 dBm Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

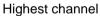
Middle channel

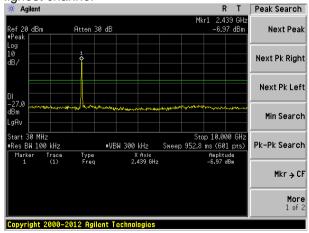


30MHz~10GHz

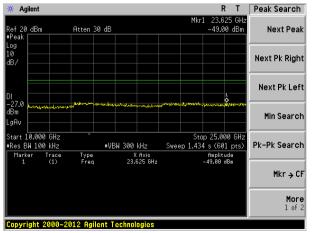


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz



Amplitude

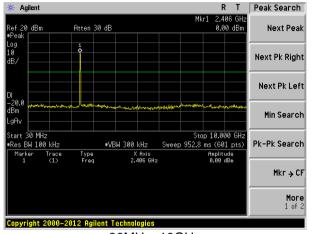
Mkr → CF

More 1 of 2

Antenna 2:

Test mode: 802.11b

Lowest channel



30MHz~10GHz

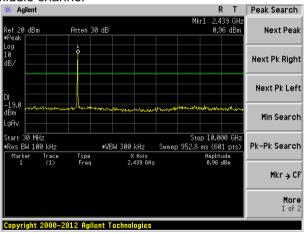
Copyright 2000-2012 Agilent Technologies 10GHz~25GHz

X fixis 14.325 GHz

Trace (1) Type Freq

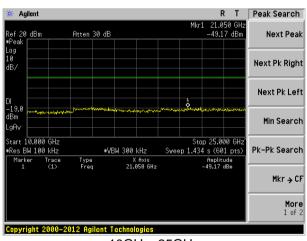
Middle channel

Highest channel

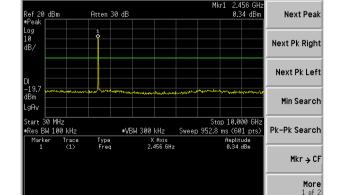


30MHz~10GHz

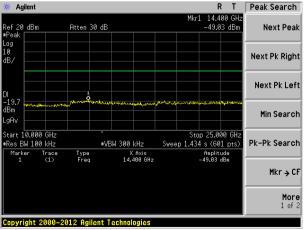
R T Peak Search



10GHz~25GHz



Copyright 2000-2012 Agilent Technologies
30MHz~10GHz



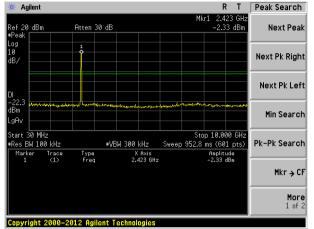
10GHz~25GHz



Test mode:

802.11g

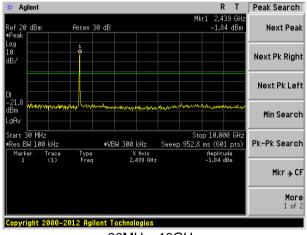
Lowest channel



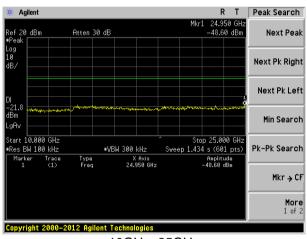
30MHz~10GHz

10GHz~25GHz

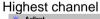
Middle channel

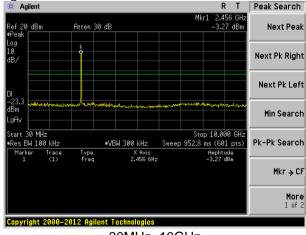


30MHz~10GHz

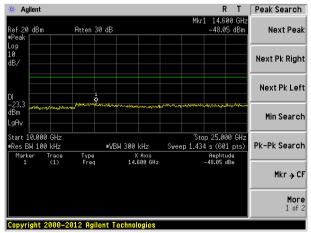


10GHz~25GHz





30MHz~10GHz



10GHz~25GHz

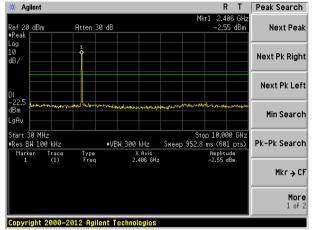


More 1 of 2

Test mode:

802.11n(HT20)

Lowest channel

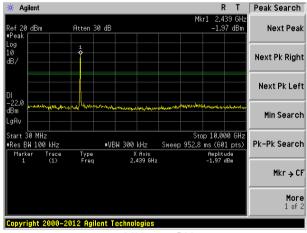


30MHz~10GHz

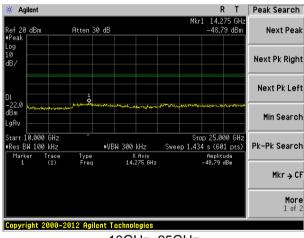
10GHz~25GHz

Copyright 2000-2012 Agilent Technologies

Middle channel

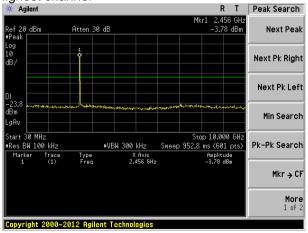


30MHz~10GHz

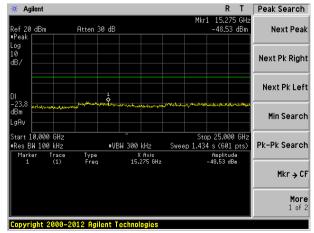


10GHz~25GHz





30MHz~10GHz



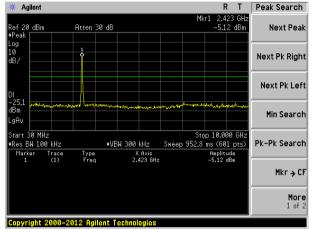
10GHz~25GHz



Test mode:

802.11n(HT40)

Lowest channel

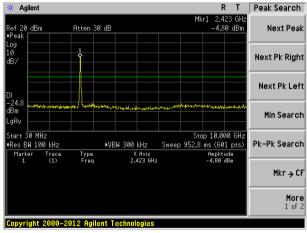


30MHz~10GHz

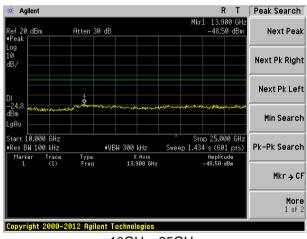
* Agilent R T Peak Search 14.225 GHz -48.30 dBm Atten 30 dB Next Peak ef 20 dBm Next Pk Right Next Pk Left Min Search Start 10.000 GHz •Res BW 100 kHz Stop 25.000 GH: Sweep 1.434 s (601 pts) Pk-Pk Search #VBW 300 kHz X Axis 14.225 GHz Amplitude -48.30 dBm Mkr → CF Copyright 2000-2012 Agilent Technologies

10GHz~25GHz

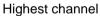
Middle channel

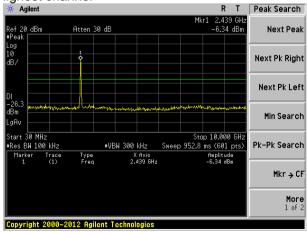


30MHz~10GHz

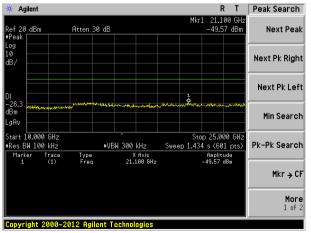


10GHz~25GHz





30MHz~10GHz



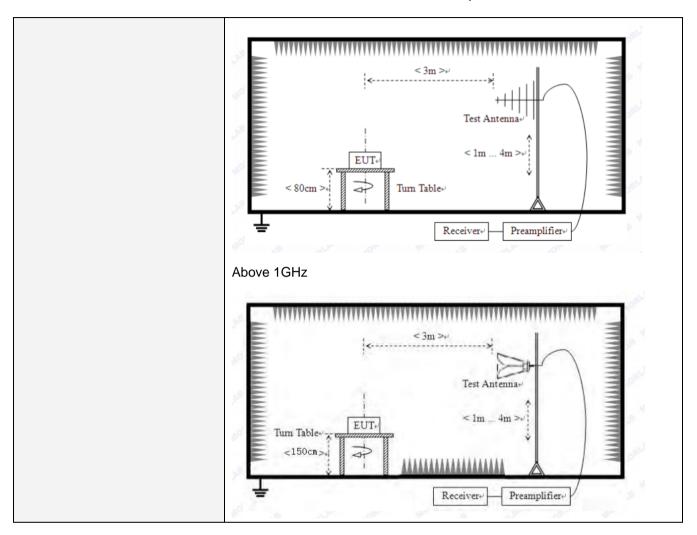
10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209										
Test Method:	ANSI C63.10:2013										
Test Frequency Range:	9kHz to 25GHz										
Test site:	Measurement Distar	nce: (3m								
Receiver setup:	Frequency		Detector	RB∖	Ν	VBW	Value				
	9KHz-150KHz	ă	ıasi-peak	200H	Ηz	600Hz	Quasi-peak				
	150KHz-30MHz	Qι	ıasi-peak	9K⊦	łz	30KHz	z Quasi-peak				
	30MHz-1GHz	·									
	Above 1GHz	Above 1GHz Peak 1MHz 3MHz Pea									
	Above Total	Peak 1MHz 10Hz Average									
Limit:	Frequency	Frequency Limit (uV/m) Value Measurement Distance									
	0.009MHz-0.490M	0.009MHz-0.490MHz 2400/F(KHz) QP 300m									
	0.490MHz-1.705M	lHz	24000/F(KHz)		QP		300m				
	1.705MHz-30MH	lz	30		QP		30m				
	30MHz-88MHz		100		(QP					
	88MHz-216MHz	<u> </u>	150		(QP					
	216MHz-960MH	Z	200		QP		3m				
	960MHz-1GHz		500		QP		5				
	Above 1GHz		500	500 A		erage					
			5000)	Р	eak					
Test setup:	Below 30MHz Turntable FUT O.8 m Test Receiver Coaxial Cable										
	Below 1GHz										







T (D)	
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

Measurement data:

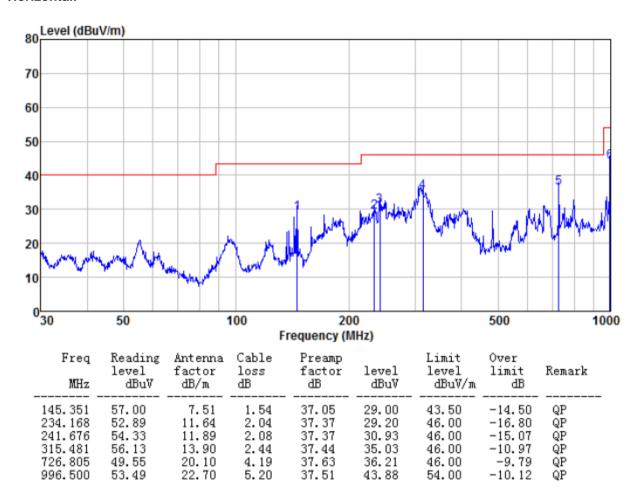
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



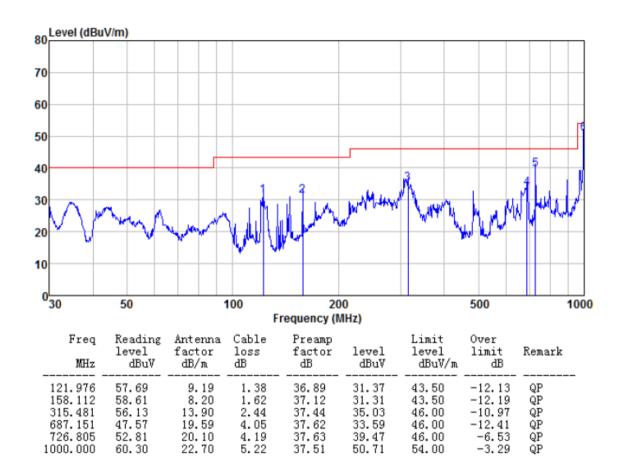
■ Below 1GHz

Horizontal:





Vertical:





■ Above 1GHz

ANT 1:

Tastusadi		000 441		T	-1	1	-1	
Test mode:		802.11b		Test	channel:	Lowe	est	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.43	31.79	8.62	32.10	48.74	74.00	-25.26	Vertical
7236.00	34.31	36.19	11.68	31.97	50.21	74.00	-23.79	Vertical
9648.00	32.78	38.07	14.16	31.56	53.45	74.00	-20.55	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.08	31.79	8.62	32.10	47.39	74.00	-26.61	Horizontal
7236.00	34.04	36.19	11.68	31.97	49.94	74.00	-24.06	Horizontal
9648.00	32.35	38.07	14.16	31.56	53.02	74.00	-20.98	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:		l.		•		l .	•
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.51	31.79	8.62	32.10	37.82	54.00	-16.18	Vertical
7236.00	23.17	36.19	11.68	31.97	39.07	54.00	-14.93	Vertical
9648.00	23.12	38.07	14.16	31.56	43.79	54.00	-10.21	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.61	31.79	8.62	32.10	36.92	54.00	-17.08	Horizontal
7236.00	22.62	36.19	11.68	31.97	38.52	54.00	-15.48	Horizontal
9648.00	22.10	38.07	14.16	31.56	42.77	54.00	-11.23	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*	_				54.00		Horizontal

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Te	st channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	ΙΔΙΔΙ	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.47	31.85	8.66	32.12	47.86	74.00	-26.14	Vertical
7311.00	34.36	36.37	11.71	31.91	50.53	74.00	-23.47	Vertical
9748.00	33.78	38.27	14.25	31.56	54.74	74.00	-19.26	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.93	31.85	8.66	32.12	48.32	74.00	-25.68	Horizontal
7311.00	32.99	36.37	11.71	31.91	49.16	74.00	-24.84	Horizontal
9748.00	33.67	38.27	14.25	31.56	54.63	74.00	-19.37	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.31	31.85	8.66	32.12	38.70	54.00	-15.30	Vertical
7311.00	22.68	36.37	11.71	31.91	38.85	54.00	-15.15	Vertical
9748.00	23.04	38.27	14.25	31.56	44.00	54.00	-10.00	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.03	31.85	8.66	32.12	38.42	54.00	-15.58	Horizontal
7311.00	22.08	36.37	11.71	31.91	38.25	54.00	-15.75	Horizontal
9748.00	23.38	38.27	14.25	31.56	44.34	54.00	-9.66	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.08	31.90	8.70	32.15	53.53	74.00	-20.47	Vertical
7386.00	35.09	36.49	11.76	31.83	51.51	74.00	-22.49	Vertical
9848.00	37.12	38.62	14.31	31.77	58.28	74.00	-15.72	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.35	31.90	8.70	32.15	52.80	74.00	-21.20	Horizontal
7386.00	33.98	36.49	11.76	31.83	50.40	74.00	-23.60	Horizontal
9848.00	33.28	38.62	14.31	31.77	54.44	74.00	-19.56	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.98	31.90	8.70	32.15	44.43	54.00	-9.57	Vertical
7386.00	25.00	36.49	11.76	31.83	41.42	54.00	-12.58	Vertical
9848.00	25.62	38.62	14.31	31.77	46.78	54.00	-7.22	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.71	31.90	8.70	32.15	43.16	54.00	-10.84	Horizontal
7386.00	23.36	36.49	11.76	31.83	39.78	54.00	-14.22	Horizontal
9848.00	22.54	38.62	14.31	31.77	43.70	54.00	-10.30	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.00	31.79	8.62	32.10	48.31	74.00	-25.69	Vertical
7236.00	34.03	36.19	11.68	31.97	49.93	74.00	-24.07	Vertical
9648.00	32.58	38.07	14.16	31.56	53.25	74.00	-20.75	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.71	31.79	8.62	32.10	47.02	74.00	-26.98	Horizontal
7236.00	33.80	36.19	11.68	31.97	49.70	74.00	-24.30	Horizontal
9648.00	32.17	38.07	14.16	31.56	52.84	74.00	-21.16	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.10	31.79	8.62	32.10	37.41	54.00	-16.59	Vertical
7236.00	22.90	36.19	11.68	31.97	38.80	54.00	-15.20	Vertical
9648.00	22.93	38.07	14.16	31.56	43.60	54.00	-10.40	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.27	31.79	8.62	32.10	36.58	54.00	-17.42	Horizontal
7236.00	22.39	36.19	11.68	31.97	38.29	54.00	-15.71	Horizontal
9648.00	21.92	38.07	14.16	31.56	42.59	54.00	-11.41	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*	_				54.00		Horizontal
16884.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.10	31.85	8.66	32.12	47.49	74.00	-26.51	Vertical
7311.00	34.13	36.37	11.71	31.91	50.30	74.00	-23.70	Vertical
9748.00	33.62	38.27	14.25	31.56	54.58	74.00	-19.42	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.62	31.85	8.66	32.12	48.01	74.00	-25.99	Horizontal
7311.00	32.79	36.37	11.71	31.91	48.96	74.00	-25.04	Horizontal
9748.00	33.52	38.27	14.25	31.56	54.48	74.00	-19.52	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.98	31.85	8.66	32.12	38.37	54.00	-15.63	Vertical
7311.00	22.46	36.37	11.71	31.91	38.63	54.00	-15.37	Vertical
9748.00	22.88	38.27	14.25	31.56	43.84	54.00	-10.16	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.75	31.85	8.66	32.12	38.14	54.00	-15.86	Horizontal
7311.00	21.89	36.37	11.71	31.91	38.06	54.00	-15.94	Horizontal
9748.00	23.24	38.27	14.25	31.56	44.20	54.00	-9.80	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g			Test	channel:		Highe	est	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4924.00	44.46	31.90	8.70	32.	15	52.91	74.	00	-21.09	Vertical
7386.00	34.70	36.49	11.76	31.	83	51.12	74.	00	-22.88	Vertical
9848.00	36.84	38.62	14.31	31.	77	58.00	74.	00	-16.00	Vertical
12310.00	*						74.	00		Vertical
14772.00	*						74.	00		Vertical
17234.00	*						74.	00		Vertical
4924.00	43.83	31.90	8.70	32.	15	52.28	74.	00	-21.72	Horizontal
7386.00	33.63	36.49	11.76	31.	83	50.05	74.	00	-23.95	Horizontal
9848.00	33.02	38.62	14.31	31.	77	54.18	74.	00	-19.82	Horizontal
12310.00	*						74.	00		Horizontal
14772.00	*						74.	00		Horizontal
17234.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Prea Fac (dl	tor	Level (dBuV/m)	Limit (dBu		Over Limit (dB)	polarization
4924.00	35.40	31.90	8.70	32.	15	43.85	54.	00	-10.15	Vertical
7386.00	24.62	36.49	11.76	31.	83	41.04	54.	00	-12.96	Vertical
9848.00	25.35	38.62	14.31	31.	77	46.51	54.	00	-7.49	Vertical
12310.00	*						54.	00		Vertical
14772.00	*						54.	00		Vertical
17234.00	*						54.	00		Vertical
4924.00	34.21	31.90	8.70	32.	15	42.66	54.	00	-11.34	Horizontal
7386.00	23.03	36.49	11.76	31.	83	39.45	54.	00	-14.55	Horizontal
9848.00	22.29	38.62	14.31	31.	77	43.45	54.	00	-10.55	Horizontal
12310.00	*						54.	00		Horizontal
14772.00	*						54.	00		Horizontal
17234.00	*						54.	00	-	Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.56	31.79	8.62	32.10	48.87	74.00	-25.13	Vertical
7236.00	34.39	36.19	11.68	31.97	50.29	74.00	-23.71	Vertical
9648.00	32.84	38.07	14.16	31.56	53.51	74.00	-20.49	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.19	31.79	8.62	32.10	47.50	74.00	-26.50	Horizontal
7236.00	34.12	36.19	11.68	31.97	50.02	74.00	-23.98	Horizontal
9648.00	32.41	38.07	14.16	31.56	53.08	74.00	-20.92	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.63	31.79	8.62	32.10	37.94	54.00	-16.06	Vertical
7236.00	23.25	36.19	11.68	31.97	39.15	54.00	-14.85	Vertical
9648.00	23.18	38.07	14.16	31.56	43.85	54.00	-10.15	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.72	31.79	8.62	32.10	37.03	54.00	-16.97	Horizontal
7236.00	22.70	36.19	11.68	31.97	38.60	54.00	-15.40	Horizontal
9648.00	22.15	38.07	14.16	31.56	42.82	54.00	-11.18	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.57	31.85	8.66	32.12	47.96	74.00	-26.04	Vertical
7311.00	34.43	36.37	11.71	31.91	50.60	74.00	-23.40	Vertical
9748.00	33.83	38.27	14.25	31.56	54.79	74.00	-19.21	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.02	31.85	8.66	32.12	48.41	74.00	-25.59	Horizontal
7311.00	33.06	36.37	11.71	31.91	49.23	74.00	-24.77	Horizontal
9748.00	33.72	38.27	14.25	31.56	54.68	74.00	-19.32	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.41	31.85	8.66	32.12	38.80	54.00	-15.20	Vertical
7311.00	22.74	36.37	11.71	31.91	38.91	54.00	-15.09	Vertical
9748.00	23.08	38.27	14.25	31.56	44.04	54.00	-9.96	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.12	31.85	8.66	32.12	38.51	54.00	-15.49	Horizontal
7311.00	22.14	36.37	11.71	31.91	38.31	54.00	-15.69	Horizontal
9748.00	23.43	38.27	14.25	31.56	44.39	54.00	-9.61	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	High	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.27	31.90	8.70	32.15	53.72	74.00	-20.28	4924.00
7386.00	35.21	36.49	11.76	31.83	51.63	74.00	-22.37	7386.00
9848.00	37.20	38.62	14.31	31.77	58.36	74.00	-15.64	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.51	31.90	8.70	32.15	52.96	74.00	-21.04	Horizontal
7386.00	34.08	36.49	11.76	31.83	50.50	74.00	-23.50	Horizontal
9848.00	33.36	38.62	14.31	31.77	54.52	74.00	-19.48	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.15	31.90	8.70	32.15	44.60	54.00	-9.40	Vertical
7386.00	25.12	36.49	11.76	31.83	41.54	54.00	-12.46	Vertical
9848.00	25.70	38.62	14.31	31.77	46.86	54.00	-7.14	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.86	31.90	8.70	32.15	43.31	54.00	-10.69	Horizontal
7386.00	23.46	36.49	11.76	31.83	39.88	54.00	-14.12	Horizontal
9848.00	22.61	38.62	14.31	31.77	43.77	54.00	-10.23	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:	Test mode: 802.11n(HT40)			Test channel:			Lowe	st		
Peak value:		1								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu)		Over Limit (dB)	polarization
4844.00	39.47	31.81	8.63	32.	11	47.80	74.	00	-26.20	Vertical
7266.00	33.70	36.28	11.69	31.	94	49.73	74.	00	-24.27	Vertical
9688.00	32.34	38.13	14.21	31.	52	53.16	74.	00	-20.84	Vertical
12060.00	*						74.	00		Vertical
14472.00	*						74.	00		Vertical
16884.00	*						74.	00		Vertical
4844.00	38.27	31.81	8.63	32.	11	46.60	74.	00	-27.40	Horizontal
7266.00	33.51	36.28	11.69	31.	94	49.54	74.	00	-24.46	Horizontal
9688.00	31.95	38.13	14.21	31.	52	52.77	74.	00	-21.23	Horizontal
12060.00	*						74.	00		Horizontal
14472.00	*						74.	00		Horizontal
16884.00	*						74.	00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.62	31.81	8.63	32.11	36.95	54.00	-17.05	Vertical
7266.00	22.58	36.28	11.69	31.94	38.61	54.00	-15.39	Vertical
9688.00	22.70	38.13	14.21	31.52	43.52	54.00	-10.48	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.85	31.81	8.63	32.11	36.18	54.00	-17.82	Horizontal
7266.00	22.11	36.28	11.69	31.94	38.14	54.00	-15.86	Horizontal
9688.00	21.71	38.13	14.21	31.52	42.53	54.00	-11.47	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.67	31.85	8.66	32.12	47.06	74.00	-26.94	Vertical
7311.00	33.86	36.37	11.71	31.91	50.03	74.00	-23.97	Vertical
9748.00	33.43	38.27	14.25	31.56	54.39	74.00	-19.61	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.26	31.85	8.66	32.12	47.65	74.00	-26.35	Horizontal
7311.00	32.56	36.37	11.71	31.91	48.73	74.00	-25.27	Horizontal
9748.00	33.34	38.27	14.25	31.56	54.30	74.00	-19.70	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:				•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.58	31.85	8.66	32.12	37.97	54.00	-16.03	Vertical
7311.00	22.19	36.37	11.71	31.91	38.36	54.00	-15.64	Vertical
9748.00	22.69	38.27	14.25	31.56	43.65	54.00	-10.35	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.40	31.85	8.66	32.12	37.79	54.00	-16.21	Horizontal
7311.00	21.65	36.37	11.71	31.91	37.82	54.00	-16.18	Horizontal
9748.00	23.06	38.27	14.25	31.56	44.02	54.00	-9.98	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	T40)	Test	channel:	Highe	est	
Peak value:						<u> </u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	43.71	31.88	8.68	32.13	52.14	74.00	-21.86	Vertical
7356.00	34.22	36.45	11.75	31.86	50.56	74.00	-23.44	Vertical
9808.00	36.50	38.43	14.29	31.68	57.54	74.00	-16.46	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	43.20	31.88	8.68	32.13	51.63	74.00	-22.37	Horizontal
7356.00	33.22	36.45	11.75	31.86	49.56	74.00	-24.44	Horizontal
9808.00	32.71	38.43	14.29	31.68	53.75	74.00	-20.25	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.72	31.88	8.68	32.13	43.15	54.00	-10.85	Vertical
7356.00	24.17	36.45	11.75	31.86	40.51	54.00	-13.49	Vertical
9808.00	25.02	38.43	14.29	31.68	46.06	54.00	-7.94	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.62	31.88	8.68	32.13	42.05	54.00	-11.95	Horizontal
7356.00	22.63	36.45	11.75	31.86	38.97	54.00	-15.03	Horizontal
9808.00	21.99	38.43	14.29	31.68	43.03	54.00	-10.97	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



ANT 2:

Test mode:		802.11b		Test	channel:	Lowe	est	
Peak value:		T	1		1		ı	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.56	31.79	8.62	32.10	48.87	74.00	-25.13	Vertical
7236.00	34.39	36.19	11.68	31.97	50.29	74.00	-23.71	Vertical
9648.00	32.83	38.07	14.16	31.56	53.50	74.00	-20.50	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.19	31.79	8.62	32.10	47.50	74.00	-26.50	Horizontal
7236.00	34.11	36.19	11.68	31.97	50.01	74.00	-23.99	Horizontal
9648.00	32.40	38.07	14.16	31.56	53.07	74.00	-20.93	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val					1		Γ	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.62	31.79	8.62	32.10	37.93	54.00	-16.07	Vertical
7236.00	23.25	36.19	11.68	31.97	39.15	54.00	-14.85	Vertical
9648.00	23.17	38.07	14.16	31.56	43.84	54.00	-10.16	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	28.71	31.79	8.62	32.10	37.02	54.00	-16.98	Horizontal
7236.00	22.69	36.19	11.68	31.97	38.59	54.00	-15.41	Horizontal
9648.00	22.15	38.07	14.16	31.56	42.82	54.00	-11.18	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Tes	t channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.57	31.85	8.66	32.12	47.96	74.00	-26.04	Vertical
7311.00	34.43	36.37	11.71	31.91	50.60	74.00	-23.40	Vertical
9748.00	33.83	38.27	14.25	31.56	54.79	74.00	-19.21	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	40.01	31.85	8.66	32.12	48.40	74.00	-25.60	Horizontal
7311.00	33.05	36.37	11.71	31.91	49.22	74.00	-24.78	Horizontal
9748.00	33.71	38.27	14.25	31.56	54.67	74.00	-19.33	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.40	31.85	8.66	32.12	38.79	54.00	-15.21	Vertical
7311.00	22.74	36.37	11.71	31.91	38.91	54.00	-15.09	Vertical
9748.00	23.08	38.27	14.25	31.56	44.04	54.00	-9.96	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	30.11	31.85	8.66	32.12	38.50	54.00	-15.50	Horizontal
7311.00	22.14	36.37	11.71	31.91	38.31	54.00	-15.69	Horizontal
9748.00	23.42	38.27	14.25	31.56	44.38	54.00	-9.62	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11b		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	45.26	31.90	8.70	32.15	53.71	74.00	-20.29	Vertical
7386.00	35.20	36.49	11.76	31.83	51.62	74.00	-22.38	Vertical
9848.00	37.20	38.62	14.31	31.77	58.36	74.00	-15.64	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.50	31.90	8.70	32.15	52.95	74.00	-21.05	Horizontal
7386.00	34.07	36.49	11.76	31.83	50.49	74.00	-23.51	Horizontal
9848.00	33.36	38.62	14.31	31.77	54.52	74.00	-19.48	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	36.14	31.90	8.70	32.15	44.59	54.00	-9.41	Vertical
7386.00	25.11	36.49	11.76	31.83	41.53	54.00	-12.47	Vertical
9848.00	25.69	38.62	14.31	31.77	46.85	54.00	-7.15	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.85	31.90	8.70	32.15	43.30	54.00	-10.70	Horizontal
7386.00	23.46	36.49	11.76	31.83	39.88	54.00	-14.12	Horizontal
9848.00	22.61	38.62	14.31	31.77	43.77	54.00	-10.23	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	lowes	st	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	40.37	31.79	8.62	32.10	48.68	74.00	-25.32	Vertical
7236.00	34.27	36.19	11.68	31.97	50.17	74.00	-23.83	Vertical
9648.00	32.75	38.07	14.16	31.56	53.42	74.00	-20.58	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	39.03	31.79	8.62	32.10	47.34	74.00	-26.66	Horizontal
7236.00	34.01	36.19	11.68	31.97	49.91	74.00	-24.09	Horizontal
9648.00	32.33	38.07	14.16	31.56	53.00	74.00	-21.00	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	29.45	31.79	8.62	32.10	37.76	54.00	-16.24	Vertical
7236.00	23.13	36.19	11.68	31.97	39.03	54.00	-14.97	Vertical
9648.00	23.09	38.07	14.16	31.56	43.76	54.00	-10.24	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertica
4824.00	28.56	31.79	8.62	32.10	36.87	54.00	-17.13	Horizontal
7236.00	22.59	36.19	11.68	31.97	38.49	54.00	-15.51	Horizontal
9648.00	22.07	38.07	14.16	31.56	42.74	54.00	-11.26	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	39.41	31.85	8.66	32.12	47.80	74.00	-26.20	Vertical
7311.00	34.33	36.37	11.71	31.91	50.50	74.00	-23.50	Vertical
9748.00	33.76	38.27	14.25	31.56	54.72	74.00	-19.28	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.88	31.85	8.66	32.12	48.27	74.00	-25.73	Horizontal
7311.00	32.97	36.37	11.71	31.91	49.14	74.00	-24.86	Horizontal
9748.00	33.65	38.27	14.25	31.56	54.61	74.00	-19.39	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	30.26	31.85	8.66	32.12	38.65	54.00	-15.35	Vertical
7311.00	22.65	36.37	11.71	31.91	38.82	54.00	-15.18	Vertical
9748.00	23.01	38.27	14.25	31.56	43.97	54.00	-10.03	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.99	31.85	8.66	32.12	38.38	54.00	-15.62	Horizontal
7311.00	22.05	36.37	11.71	31.91	38.22	54.00	-15.78	Horizontal
9748.00	23.36	38.27	14.25	31.56	44.32	54.00	-9.68	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11g		Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	44.99	31.90	8.70	32.15	53.44	74.00	-20.56	Vertical
7386.00	35.04	36.49	11.76	31.83	51.46	74.00	-22.54	Vertical
9848.00	37.08	38.62	14.31	31.77	58.24	74.00	-15.76	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	44.28	31.90	8.70	32.15	52.73	74.00	-21.27	Horizontal
7386.00	33.93	36.49	11.76	31.83	50.35	74.00	-23.65	Horizontal
9848.00	33.25	38.62	14.31	31.77	54.41	74.00	-19.59	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	35.90	31.90	8.70	32.15	44.35	54.00	-9.65	Vertical
7386.00	24.95	36.49	11.76	31.83	41.37	54.00	-12.63	Vertical
9848.00	25.58	38.62	14.31	31.77	46.74	54.00	-7.26	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	34.64	31.90	8.70	32.15	43.09	54.00	-10.91	Horizontal
7386.00	23.32	36.49	11.76	31.83	39.74	54.00	-14.26	Horizontal
9848.00	22.50	38.62	14.31	31.77	43.66	54.00	-10.34	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Lowe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	39.47	31.79	8.62	32.10	47.78	74.00	-26.22	Vertical
7236.00	33.70	36.19	11.68	31.97	49.60	74.00	-24.40	Vertical
9648.00	32.34	38.07	14.16	31.56	53.01	74.00	-20.99	Vertical
12060.00	*					74.00		Vertical
14472.00	*					74.00		Vertical
16884.00	*					74.00		Vertical
4824.00	38.27	31.79	8.62	32.10	46.58	74.00	-27.42	Horizontal
7236.00	33.51	36.19	11.68	31.97	49.41	74.00	-24.59	Horizontal
9648.00	31.95	38.07	14.16	31.56	52.62	74.00	-21.38	Horizontal
12060.00	*					74.00		Horizontal
14472.00	*					74.00		Horizontal
16884.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4824.00	28.62	31.79	8.62	32.10	36.93	54.00	-17.07	Vertical
7236.00	22.58	36.19	11.68	31.97	38.48	54.00	-15.52	Vertical
9648.00	22.70	38.07	14.16	31.56	43.37	54.00	-10.63	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4824.00	27.85	31.79	8.62	32.10	36.16	54.00	-17.84	Horizontal
7236.00	22.11	36.19	11.68	31.97	38.01	54.00	-15.99	Horizontal
9648.00	21.71	38.07	14.16	31.56	42.38	54.00	-11.62	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Midd	le	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	38.67	31.85	8.66	32.12	47.06	74.00	-26.94	Vertical
7311.00	33.86	36.37	11.71	31.91	50.03	74.00	-23.97	Vertical
9748.00	33.43	38.27	14.25	31.56	54.39	74.00	-19.61	Vertical
12185.00	*					74.00		Vertical
14622.00	*					74.00		Vertical
17059.00	*					74.00		Vertical
4874.00	39.26	31.85	8.66	32.12	47.65	74.00	-26.35	Horizontal
7311.00	32.56	36.37	11.71	31.91	48.73	74.00	-25.27	Horizontal
9748.00	33.34	38.27	14.25	31.56	54.30	74.00	-19.70	Horizontal
12185.00	*					74.00		Horizontal
14622.00	*					74.00		Horizontal
17059.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4874.00	29.58	31.85	8.66	32.12	37.97	54.00	-16.03	Vertical
7311.00	22.19	36.37	11.71	31.91	38.36	54.00	-15.64	Vertical
9748.00	22.69	38.27	14.25	31.56	43.65	54.00	-10.35	Vertical
12185.00	*					54.00		Vertical
14622.00	*					54.00		Vertical
17059.00	*					54.00		Vertical
4874.00	29.40	31.85	8.66	32.12	37.79	54.00	-16.21	Horizontal
7311.00	21.65	36.37	11.71	31.91	37.82	54.00	-16.18	Horizontal
9748.00	23.06	38.27	14.25	31.56	44.02	54.00	-9.98	Horizontal
12185.00	*					54.00		Horizontal
14622.00	*					54.00		Horizontal
17059.00	*					54.00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT20)	Test	channel:	Highe	est	
Peak value:						<u> </u>		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	43.71	31.90	8.70	32.15	52.16	74.00	-21.84	4924.00
7386.00	34.22	36.49	11.76	31.83	50.64	74.00	-23.36	7386.00
9848.00	36.50	38.62	14.31	31.77	57.66	74.00	-16.34	9848.00
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4924.00	43.20	31.90	8.70	32.15	51.65	74.00	-22.35	Horizontal
7386.00	33.22	36.49	11.76	31.83	49.64	74.00	-24.36	Horizontal
9848.00	32.71	38.62	14.31	31.77	53.87	74.00	-20.13	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4924.00	34.72	31.90	8.70	32.15	43.17	54.00	-10.83	Vertical
7386.00	24.17	36.49	11.76	31.83	40.59	54.00	-13.41	Vertical
9848.00	25.02	38.62	14.31	31.77	46.18	54.00	-7.82	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4924.00	33.62	31.90	8.70	32.15	42.07	54.00	-11.93	Horizontal
7386.00	22.63	36.49	11.76	31.83	39.05	54.00	-14.95	Horizontal
9848.00	21.99	38.62	14.31	31.77	43.15	54.00	-10.85	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*					54.00		Horizontal

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	Test channel:			Lowe	st			
Peak value:		'		,			•			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)		Level (dBuV/m)	Limit (dBu\	_	Over Limit (dB)	polarization
4844.00	39.37	31.81	8.63	32.	11	47.70	74.0	00	-26.30	Vertical
7266.00	33.64	36.28	11.69	31.9	94	49.67	74.0	00	-24.33	Vertical
9688.00	32.30	38.13	14.21	31.5	52	53.12	74.0	00	-20.88	Vertical
12060.00	*						74.0	00		Vertical
14472.00	*						74.0	00		Vertical
16884.00	*						74.0	00		Vertical
4844.00	38.18	31.81	8.63	32.	11	46.51	74.0	00	-27.49	Horizontal
7266.00	33.46	36.28	11.69	31.9	94	49.49	74.0	00	-24.51	Horizontal
9688.00	31.91	38.13	14.21	31.8	52	52.73	74.0	00	-21.27	Horizontal
12060.00	*						74.0	00		Horizontal
14472.00	*						74.0	00		Horizontal
16884.00	*						74.0	00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4844.00	28.53	31.81	8.63	32.11	36.86	54.00	-17.14	Vertical
7266.00	22.52	36.28	11.69	31.94	31.94 38.55		-15.45	Vertical
9688.00	22.66	38.13	14.21	31.52	43.48	54.00	-10.52	Vertical
12060.00	*					54.00		Vertical
14472.00	*					54.00		Vertical
16884.00	*					54.00		Vertical
4844.00	27.77	31.81	8.63	32.11	36.10	54.00	-17.90	Horizontal
7266.00	22.06	36.28	11.69	31.94	38.09	54.00	-15.91	Horizontal
9688.00	21.67	38.13	14.21	31.52	42.49	54.00	-11.51	Horizontal
12060.00	*					54.00		Horizontal
14472.00	*					54.00		Horizontal
16884.00	*					54.00		Horizontal

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)		Test	channel:		Midd	le	
Peak value:										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	38.59	31.85	8.66	32	.12	46.98	74.	00	-27.02	Vertical
7311.00	33.81	36.37	11.71	31	.91	49.98	74.	00	-24.02	Vertical
9748.00	33.39	38.27	14.25	31	.56	54.35	74.	00	-19.65	Vertical
12185.00	*						74.	00		Vertical
14622.00	*						74.	00		Vertical
17059.00	*						74.	00		Vertical
4874.00	39.19	31.85	8.66	32	.12	47.58	74.	00	-26.42	Horizontal
7311.00	32.51	36.37	11.71	31	.91	48.68	74.	00	-25.32	Horizontal
9748.00	33.30	38.27	14.25	31	.56	54.26	74.	00	-19.74	Horizontal
12185.00	*						74.	00		Horizontal
14622.00	*						74.	00		Horizontal
17059.00	*						74.	00		Horizontal
Average val										
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Fac	amp ctor B)	Level (dBuV/m)	Limit (dBu\		Over Limit (dB)	polarization
4874.00	29.50	31.85	8.66	32	.12	37.89	54.	00	-16.11	Vertical
7311.00	22.14	36.37	11.71	31	.91	38.31	54.	00	-15.69	Vertical
9748.00	22.66	38.27	14.25	31	.56	43.62	54.	00	-10.38	Vertical
12185.00	*						54.	00		Vertical
14622.00	*						54.	00		Vertical
17059.00	*						54.	00		Vertical
4874.00	29.34	31.85	8.66	32	.12	37.73	54.	00	-16.27	Horizontal
7311.00	21.61	36.37	11.71	31	.91	37.78	54.	00	-16.22	Horizontal
9748.00	23.03	38.27	14.25	31	.56	43.99	54.	00	-10.01	Horizontal
12185.00	*						54.	00		Horizontal
14622.00	*						54.	00		Horizontal
17059.00	*						54.	00		Horizontal

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test mode:		802.11n(H	IT40)	Test	channel:	Highe	est	
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	43.57	31.88	8.68	32.13	52.00	74.00	-22.00	Vertical
7356.00	34.13	36.45	11.75	31.86	50.47	74.00	-23.53	Vertical
9808.00	36.43	38.43	14.29	31.68	57.47	74.00	-16.53	Vertical
12310.00	*					74.00		Vertical
14772.00	*					74.00		Vertical
17234.00	*					74.00		Vertical
4904.00	43.08	31.88	8.68	32.13	51.51	74.00	-22.49	Horizontal
7356.00	33.14	36.45	11.75	31.86	49.48	74.00	-24.52	Horizontal
9808.00	32.65	38.43	14.29	31.68	53.69	74.00	-20.31	Horizontal
12310.00	*					74.00		Horizontal
14772.00	*					74.00		Horizontal
17234.00	*					74.00		Horizontal
Average val	ue:							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4904.00	34.58	31.88	8.68	32.13	43.01	54.00	-10.99	Vertical
7356.00	24.08	36.45	11.75	31.86	40.42	54.00	-13.58	Vertical
9808.00	24.96	38.43	14.29	31.68	46.00	54.00	-8.00	Vertical
12310.00	*					54.00		Vertical
14772.00	*					54.00		Vertical
17234.00	*					54.00		Vertical
4904.00	33.51	31.88	8.68	32.13	41.94	54.00	-12.06	Horizontal
7356.00	22.55	36.45	11.75	31.86	38.89	54.00	-15.11	Horizontal
9808.00	21.93	38.43	14.29	31.68	42.97	54.00	-11.03	Horizontal
12310.00	*					54.00		Horizontal
14772.00	*					54.00		Horizontal
17234.00	*			_		54.00		Horizontal

¹ Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

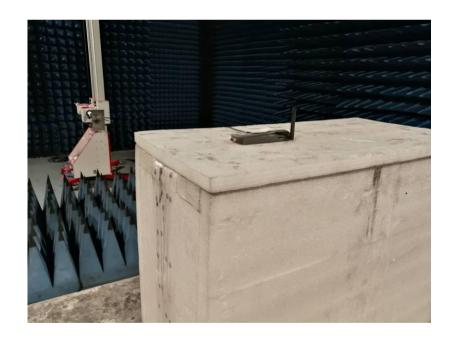
^{2 &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201807000026F01

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