



# A Test Lab Techno Corp.

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## MPE Report

Test Report No.	: 1509FS14
Applicant	: Lenovo (Shanghai) Electronics Technology Co., Ltd.
Manufacturer	: Lenovo PC HK Limited
Product Type	: Lenovo Pocket Projector
Trade Name	: Lenovo
Model Number	: P0510
Date of Received	: Jul. 16, 2015
Test Period	: Sep. 02 ~ Sep. 08, 2015
Date of Issued	: Sep. 14, 2015
Test Specification	: IEEE Std. 1528-2013 47 CFR § 2.1091 47 CFR §1.1310 ANSI / IEEE Std.C95.1-1992
Location of Test Lab.	: Chang-an Lab.

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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Approved By

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(Bill Hu)

Tested By

: Sky Chou  
(Sky Chou)



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## 1. Description of Equipment under Test (EUT)

Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd.				
Applicant Address	No. 68 Building, 199 Fenju Road, Wai Gao Qiao FTZ , Shanghai , China				
Manufacturer	Lenovo PC HK Limited				
Manufacturer Address	23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong,China				
Product Type	Lenovo Pocket Projector				
Trade Name	Lenovo				
Model Number	P0510				
FCC ID	O57P0510				
Frequency Range	IEEE 802.11b / 802.11g / 802.11n 2.4GHz 20MHz: 2412 ~ 2462 MHz IEEE 802.11n 2.4GHz 40MHz: 2422 ~ 2452 MHz IEEE 802.11a Band I : 5180 ~ 5240 MHz IEEE 802.11a Band II-A : 5260 ~ 5320 MHz IEEE 802.11a Band II-C : 5500 ~ 5700 MHz IEEE 802.11a Band III : 5745 ~ 5825 MHz IEEE 802.11n 5GHz 20MHz Band I : 5180 ~ 5240 MHz IEEE 802.11n 5GHz 20MHz Band II-A : 5260 ~ 5320 MHz IEEE 802.11n 5GHz 20MHz Band II-C : 5500 ~ 5700 MHz IEEE 802.11n 5GHz 20MHz Band III : 5745 ~ 5825 MHz IEEE 802.11n 5GHz 40MHz Band I : 5190 ~ 5230 MHz IEEE 802.11n 5GHz 40MHz Band II-A : 5270 ~ 5310 MHz IEEE 802.11n 5GHz 40MHz Band II-C : 5510 ~ 5670 MHz IEEE 802.11n 5GHz 40MHz Band III : 5755 ~ 5795 MHz				
Transmit Power (conducted power)	IEEE 802.11b:	0.018	W /	12.53	dBm
	IEEE 802.11g:	0.006	W /	7.72	dBm
	IEEE 802.11n 2.4GHz 20MHz:	0.010	W /	10.20	dBm
	IEEE 802.11n 2.4GHz 40MHz:	0.009	W /	9.66	dBm
	IEEE 802.11a Band I :	0.003	W /	5.00	dBm
	IEEE 802.11a Band II-A :	0.005	W /	7.10	dBm
	IEEE 802.11a Band II-C :	0.009	W /	9.71	dBm
	IEEE 802.11a Band III :	0.004	W /	6.31	dBm
	IEEE 802.11n 5GHz 20MHz Band I :	0.004	W /	5.78	dBm
	IEEE 802.11n 5GHz 20MHz Band II-A :	0.005	W /	6.92	dBm
	IEEE 802.11n 5GHz 20MHz Band II-C :	0.008	W /	8.96	dBm
	IEEE 802.11n 5GHz 20MHz Band III :	0.004	W /	6.02	dBm
	IEEE 802.11n 5GHz 40MHz Band I :	0.003	W /	4.98	dBm
	IEEE 802.11n 5GHz 40MHz Band II-A :	0.004	W /	6.50	dBm
	IEEE 802.11n 5GHz 40MHz Band II-C :	0.007	W /	8.68	dBm
	IEEE 802.11n 5GHz 40MHz Band III :	0.003	W /	5.29	dBm



Antenna Type	FPC Antenna
Antenna Peak Gain	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n 2.4GHz 20MHz/40MHz: 2 dBi IEEE 802.11a, IEEE 802.11n 5GHz 20MHz/40MHz: 2 dBi
Temperature Range	0 ~ +45°C
RF Evaluation	0.06 W/m <sup>2</sup>

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 & 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties



## 2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR §1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons." This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna.



### 3. RF Output Power

Band	Data Rate	CH	Frequency (MHz)	Average Conducted power (dBm)		
				ANT-0	ANT-1	ANT-0+1
IEEE 802.11b	1M	1	2412.0	11.94	11.35	---
		6	2437.0	12.33	11.84	---
		11	2462.0	12.53	12.44	---
	2M	6	2437.0	12.31	11.82	---
	5.5M	6	2437.0	12.30	11.81	---
	11M	6	2437.0	12.27	11.78	---
IEEE 802.11g	6M	1	2412.0	7.12	6.87	---
		6	2437.0	7.54	7.48	---
		11	2462.0	7.72	7.68	---
	9M	6	2437.0	7.51	7.45	---
	12M	6	2437.0	7.46	7.41	---
	18M	6	2437.0	7.44	7.38	---
	24M	6	2437.0	7.41	7.33	---
	36M	6	2437.0	7.36	7.30	---
	48M	6	2437.0	7.34	7.25	---
	54M	6	2437.0	7.29	7.52	---
IEEE 802.11n 2.4GHz 20MHz	13M	1	2412.0	6.82	6.59	9.72
		6	2437.0	7.01	6.72	9.88
		11	2462.0	7.18	7.19	10.20
	26M	6	2437.0	6.96	6.69	9.84
	39M	6	2437.0	6.94	6.64	9.80
	52M	6	2437.0	6.89	6.61	9.76
	78M	6	2437.0	6.85	6.58	9.73
	104M	6	2437.0	6.81	6.53	9.68
	117M	6	2437.0	6.78	6.50	9.65
	130M	6	2437.0	6.74	6.48	9.62
IEEE 802.11n 2.4GHz 40MHz	27M	3	2422.0	5.98	6.05	9.03
		6	2437.0	6.18	6.37	9.29
		9	2452.0	6.51	6.79	9.66
	54M	6	2437.0	6.16	6.34	9.26
	81M	6	2437.0	6.12	6.30	9.22
	108M	6	2437.0	6.09	6.28	9.20
	162M	6	2437.0	6.05	6.25	9.16
	216M	6	2437.0	6.01	6.21	9.12
	243M	6	2437.0	5.98	6.18	9.09
	270M	6	2437.0	5.95	6.15	9.06



Band	Data Rate	CH	Frequency (MHz)	Average Conducted power (dBm)		
				ANT-0	ANT-1	ANT-0+1
IEEE 802.11a	6M	36	5180.0	2.67	1.47	---
		40	5200.0	3.46	1.01	---
		44	5220.0	4.26	1.04	---
		48	5240.0	5.00	1.12	---
		52	5260.0	5.82	1.26	---
		56	5280.0	6.40	0.06	---
		60	5300.0	7.04	1.73	---
		64	5320.0	7.10	1.16	---
		100	5500.0	8.67	2.99	---
		104	5520.0	9.22	2.33	---
		108	5540.0	9.46	2.89	---
		112	5560.0	9.61	3.40	---
		116	5580.0	9.71	3.51	---
		120	5600.0	9.58	3.30	---
		124	5620.0	9.47	4.01	---
		128	5640.0	9.11	3.74	---
		132	5660.0	8.86	3.32	---
		136	5680.0	8.59	2.93	---
	140	5700.0	7.96	3.16	---	
	149	5745.0	6.31	3.09	---	
	153	5765.0	5.46	2.44	---	
	157	5785.0	4.59	0.72	---	
	161	5805.0	3.64	-0.30	---	
	165	5825.0	2.64	3.48	---	
	54M	36	5180.0	2.53	1.36	---
		40	5200.0	3.34	0.91	---
		44	5220.0	4.16	0.97	---
		48	5240.0	4.87	1.02	---
		52	5260.0	5.72	1.21	---
		56	5280.0	6.29	0.00	---
		60	5300.0	6.94	1.62	---
		64	5320.0	6.98	1.02	---
		100	5500.0	8.53	2.90	---
		104	5520.0	9.06	2.25	---
108		5540.0	9.32	2.82	---	
112		5560.0	9.46	3.34	---	
116		5580.0	9.61	3.40	---	
120		5600.0	9.49	3.19	---	
124		5620.0	9.34	3.94	---	
128		5640.0	8.99	3.68	---	
132	5660.0	8.70	3.22	---		
136	5680.0	8.48	2.83	---		
140	5700.0	7.88	3.09	---		
149	5745.0	6.21	3.01	---		
153	5765.0	5.31	2.34	---		
157	5785.0	4.42	0.66	---		
161	5805.0	3.56	-0.39	---		
165	5825.0	2.58	3.38	---		



Band	Data Rate	CH	Frequency (MHz)	Average Conducted power (dBm)			
				ANT-0	ANT-1	ANT-0+1	
IEEE802.11n 5GHz 20MHz	13M	36	5180.0	3.13	-0.18	4.79	
		40	5200.0	3.22	-0.09	4.88	
		44	5220.0	3.88	0.08	5.39	
		48	5240.0	4.30	0.39	5.78	
		52	5260.0	4.77	-0.36	5.93	
		56	5280.0	5.27	-0.54	6.28	
		60	5300.0	5.69	-0.63	6.60	
		64	5320.0	6.12	-0.82	6.92	
		100	5500.0	7.52	1.36	8.46	
		104	5520.0	7.74	1.40	8.65	
		108	5540.0	8.08	1.54	8.95	
		112	5560.0	8.01	1.66	8.92	
		116	5580.0	8.03	1.81	8.96	
		120	5600.0	7.81	1.43	8.71	
		124	5620.0	7.61	1.37	8.54	
		128	5640.0	7.17	1.21	8.15	
		132	5660.0	7.08	1.19	8.08	
		136	5680.0	6.43	1.09	7.54	
		140	5700.0	5.70	1.00	6.97	
		149	5745.0	3.83	1.99	6.02	
	153	5765.0	2.98	1.86	5.47		
	157	5785.0	2.11	1.67	4.91		
	161	5805.0	1.34	1.54	4.45		
	165	5825.0	0.76	1.37	4.09		
		130M	36	5180.0	2.84	-0.36	4.54
			40	5200.0	2.99	-0.29	4.66
			44	5220.0	3.61	-0.13	5.14
			48	5240.0	4.08	0.22	5.58
			52	5260.0	4.49	-0.53	5.68
			56	5280.0	5.05	-0.75	6.06
			60	5300.0	5.42	-0.81	6.35
			64	5320.0	5.84	-0.99	6.66
			100	5500.0	7.24	1.16	8.20
			104	5520.0	7.48	1.22	8.40
	108		5540.0	7.81	1.36	8.70	
	112		5560.0	7.75	1.44	8.66	
	116		5580.0	7.79	1.61	8.73	
	120		5600.0	7.54	1.26	8.46	
	124	5620.0	7.38	1.17	8.31		
	128	5640.0	6.91	1.06	7.91		
	132	5660.0	6.85	0.98	7.85		
	136	5680.0	6.16	0.92	7.30		
	140	5700.0	5.43	0.88	6.74		
	149	5745.0	3.56	1.82	5.79		
	153	5765.0	2.71	1.69	5.24		
	157	5785.0	1.88	1.49	4.70		
	161	5805.0	1.11	1.36	4.25		
	165	5825.0	0.48	1.15	3.84		





Band	DataRate	CH	Frequency (MHz)	Average Conducted power (dBm)		
				ANT-0	ANT-1	ANT-0+1
IEEE802.11n 5GHz 40MHz	27M	38	5190.0	2.79	-1.23	4.24
		46	5230.0	3.83	-1.35	4.98
		54	5270.0	4.92	-1.37	5.84
		62	5310.0	5.74	-1.42	6.50
		102	5510.0	7.44	0.85	8.30
		110	5550.0	7.72	1.15	8.58
		118	5590.0	7.87	0.98	8.68
		126	5630.0	7.22	0.92	8.13
		134	5670.0	6.46	0.85	7.51
		151	5755.0	3.25	1.03	5.29
	159	5795.0	1.63	1.09	4.38	
	270M	38	5190.0	2.56	-1.38	4.03
		46	5230.0	3.61	-1.52	4.77
		54	5270.0	4.73	-1.56	5.65
		62	5310.0	5.51	-1.58	6.29
		102	5510.0	7.21	0.65	8.08
		110	5550.0	7.49	0.98	8.37
		118	5590.0	7.68	0.77	8.49
		126	5630.0	6.99	0.73	7.91
		134	5670.0	6.22	0.69	7.29
151		5755.0	3.06	0.88	5.12	
159	5795.0	1.44	0.94	4.21		



#### 4. Test Result

Band	Data Rate	Frequency (MHz)	Limit (mw/cm <sup>2</sup> )	Distance (cm) [R]	Max Tune-up power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	[P] x [G] With Duty Cycle (mW) [TP]	Power Density [S] (mw/cm <sup>2</sup> )
IEEE 802.11b ANT-0	1M	2412.0	1	20	13.0	2	1.58	1	31.53	0.006
		2437.0	1	20	13.0	2	1.58	1	31.53	0.006
		2462.0	1	20	13.0	2	1.58	1	31.53	0.006
IEEE 802.11b ANT-1		2412.0	1	20	13.0	2	1.58	1	31.53	0.006
		2437.0	1	20	13.0	2	1.58	1	31.53	0.006
		2462.0	1	20	13.0	2	1.58	1	31.53	0.006
IEEE 802.11g ANT-0	6M	2412.0	1	20	8.0	2	1.58	1	9.97	0.002
		2437.0	1	20	8.0	2	1.58	1	9.97	0.002
		2462.0	1	20	8.0	2	1.58	1	9.97	0.002
IEEE 802.11g ANT-1		2412.0	1	20	8.0	2	1.58	1	9.97	0.002
		2437.0	1	20	8.0	2	1.58	1	9.97	0.002
		2462.0	1	20	8.0	2	1.58	1	9.97	0.002
IEEE 802.11n 2.4GHz 20MHz ANT-0+1	13M	2412.0	1	20	11.0	2	1.58	1	19.89	0.004
		2437.0	1	20	11.0	2	1.58	1	19.89	0.004
		2462.0	1	20	11.0	2	1.58	1	19.89	0.004
IEEE 802.11n 2.4GHz 40MHz ANT-0+1	27M	2422.0	1	20	10.0	2	1.58	1	15.80	0.003
		2437.0	1	20	10.0	2	1.58	1	15.80	0.003
		2452.0	1	20	10.0	2	1.58	1	15.80	0.003

Note : 1.The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .

2.The WLAN 2.4GHz and 5GHz can not synchronous transmission.



Band	Data Rate	Frequency (MHz)	Limit (mw/cm <sup>2</sup> )	Distance (cm) [R]	Max Tune-up power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	[P] x [G] With Duty Cycle (mW) [TP]	Power Density [S] (mw/cm <sup>2</sup> )
IEEE 802.11a ANT-0	6M	5180.0	1	20	4.0	2	1.58	1	3.97	0.001
		5200.0	1	20	4.0	2	1.58	1	3.97	0.001
		5220.0	1	20	6.0	2	1.58	1	6.29	0.001
		5240.0	1	20	6.0	2	1.58	1	6.29	0.001
		5260.0	1	20	7.5	2	1.58	1	8.88	0.002
		5280.0	1	20	7.5	2	1.58	1	8.88	0.002
		5300.0	1	20	7.5	2	1.58	1	8.88	0.002
		5320.0	1	20	7.5	2	1.58	1	8.88	0.002
		5500.0	1	20	9.9	2	1.58	1	15.44	0.003
		5520.0	1	20	9.9	2	1.58	1	15.44	0.003
		5540.0	1	20	9.9	2	1.58	1	15.44	0.003
		5560.0	1	20	9.9	2	1.58	1	15.44	0.003
		5580.0	1	20	9.9	2	1.58	1	15.44	0.003
		5600.0	1	20	9.9	2	1.58	1	15.44	0.003
		5620.0	1	20	9.9	2	1.58	1	15.44	0.003
		5640.0	1	20	9.9	2	1.58	1	15.44	0.003
		5660.0	1	20	9.9	2	1.58	1	15.44	0.003
		5680.0	1	20	9.9	2	1.58	1	15.44	0.003
		5700.0	1	20	9.9	2	1.58	1	15.44	0.003
		5745.0	1	20	6.5	2	1.58	1	7.06	0.001
5765.0	1	20	6.5	2	1.58	1	7.06	0.001		
5785.0	1	20	6.5	2	1.58	1	7.06	0.001		
5805.0	1	20	4.0	2	1.58	1	3.97	0.001		
5825.0	1	20	4.0	2	1.58	1	3.97	0.001		

Note : 1.The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .

2.The WLAN 2.4GHz and 5GHz can not synchronous transmission.



Band	Data Rate	Frequency (MHz)	Limit (mw/cm <sup>2</sup> )	Distance (cm) [R]	Max Tune-up power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	[P] x [G] With Duty Cycle (mW) [TP]	Power Density [S] (mw/cm <sup>2</sup> )	
IEEE 802.11a ANT-1	6M	5180.0	1	20	2.0	2	1.58	1	2.50	0.000	
		5200.0	1	20	2.0	2	1.58	1	2.50	0.000	
		5220.0	1	20	2.0	2.0	2	1.58	1	2.50	0.000
		5240.0	1	20	2.0	2.0	2	1.58	1	2.50	0.000
		5260.0	1	20	2.0	2.0	2	1.58	1	2.50	0.000
		5280.0	1	20	2.0	2.0	2	1.58	1	2.50	0.000
		5300.0	1	20	2.0	2.0	2	1.58	1	2.50	0.000
		5320.0	1	20	2.0	2.0	2	1.58	1	2.50	0.000
		5500.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5520.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5540.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5560.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5580.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5600.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5620.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5640.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5660.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5680.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5700.0	1	20	4.2	2	2	1.58	1	4.16	0.001
		5745.0	1	20	4.0	2	2	1.58	1	3.97	0.001
5765.0	1	20	4.0	2	2	1.58	1	3.97	0.001		
5785.0	1	20	1.0	2	2	1.58	1	1.99	0.000		
5805.0	1	20	1.0	2	2	1.58	1	1.99	0.000		
5825.0	1	20	4.0	2	2	1.58	1	3.97	0.001		

Note : 1.The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .

2.The WLAN 2.4GHz and 5GHz can not synchronous transmission.



Band	Data Rate	Frequency (MHz)	Limit (mw/cm <sup>2</sup> )	Distance (cm) [R]	Max Tune-up power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	[P] x [G] With Duty Cycle (mW) [TP]	Power Density [S] (mw/cm <sup>2</sup> )
IEEE 802.11n 5GHz 20MHz ANT-0+1	13M	5180.0	1	20	6.0	2	1.58	1	6.29	0.001
		5200.0	1	20	6.0	2	1.58	1	6.29	0.001
		5220.0	1	20	6.0	2	1.58	1	6.29	0.001
		5240.0	1	20	6.0	2	1.58	1	6.29	0.001
		5260.0	1	20	7.0	2	1.58	1	7.92	0.002
		5280.0	1	20	7.0	2	1.58	1	7.92	0.002
		5300.0	1	20	7.0	2	1.58	1	7.92	0.002
		5320.0	1	20	7.0	2	1.58	1	7.92	0.002
		5500.0	1	20	9.5	2	1.58	1	14.08	0.003
		5520.0	1	20	9.5	2	1.58	1	14.08	0.003
		5540.0	1	20	9.5	2	1.58	1	14.08	0.003
		5560.0	1	20	9.5	2	1.58	1	14.08	0.003
		5580.0	1	20	9.5	2	1.58	1	14.08	0.003
		5600.0	1	20	9.5	2	1.58	1	14.08	0.003
		5620.0	1	20	9.5	2	1.58	1	14.08	0.003
		5640.0	1	20	9.5	2	1.58	1	14.08	0.003
		5660.0	1	20	9.5	2	1.58	1	14.08	0.003
		5680.0	1	20	9.5	2	1.58	1	14.08	0.003
		5700.0	1	20	8.0	2	1.58	1	9.97	0.002
		5745.0	1	20	8.0	2	1.58	1	9.97	0.002
5765.0	1	20	6.0	2	1.58	1	6.29	0.001		
5785.0	1	20	6.0	2	1.58	1	6.29	0.001		
5805.0	1	20	6.0	2	1.58	1	6.29	0.001		
5825.0	1	20	6.0	2	1.58	1	6.29	0.001		

Note : 1.The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .

2.The WLAN 2.4GHz and 5GHz can not synchronous transmission.



Band	Data Rate	Frequency (MHz)	Limit (mw/cm <sup>2</sup> )	Distance (cm) [R]	Max Tune-up power (dBm) [P]	ANT Gain (dBi)	Numeric Gain [G] (dBi)	Duty Cycle	[P] x [G] With Duty Cycle (mW) [TP]	Power Density [S] (mw/cm <sup>2</sup> )
IEEE 802.11n 5GHz 40MHz ANT-0+1	27M	5190.0	1	20	6.0	2	1.58	1	6.29	0.001
		5230.0	1	20	6.0	2	1.58	1	6.29	0.001
		5270.0	1	20	7.0	2	1.58	1	7.92	0.002
		5310.0	1	20	7.0	2	1.58	1	7.92	0.002
		5510.0	1	20	9.0	2	1.58	1	12.55	0.002
		5550.0	1	20	9.0	2	1.58	1	12.55	0.002
		5590.0	1	20	9.0	2	1.58	1	12.55	0.002
		5630.0	1	20	9.0	2	1.58	1	12.55	0.002
		5670.0	1	20	9.0	2	1.58	1	12.55	0.002
		5755.0	1	20	6.0	2	1.58	1	6.29	0.001
		5795.0	1	20	6.0	2	1.58	1	6.29	0.001

Note : 1.The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .

2.The WLAN 2.4GHz and 5GHz can not synchronous transmission.