

[Test Mode: 802.11b]

Report No.: BLA-EMC-202101-A4802

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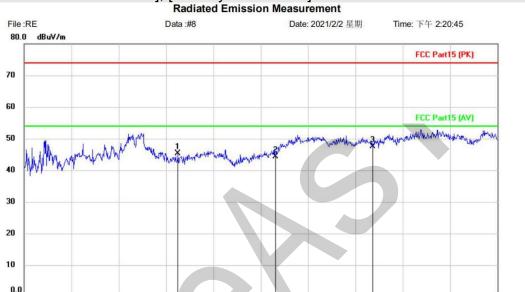
Remark: During the test, pre-scan the 802.11b/g/nH20/nH40 mode, and found the 802.11b mode which

it is worse case.

[TestMode: Test channel:lowest]; [Polarity: Horizontal]

4525.00

5700.00



Limit: FCC Part15 (PK) EUT: WIFI Module

1000.000 2175.00

M/N: 6189S-SF Mode: TX-B-L Note:

Site

8050.00 Polarization: Horizontal Power:

Temperature: Humidity:

12750.00 MHz

10400.00

Distance: 3m

6875.00

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	52.62	-7.31	45.31	74.00	-28.69	peak			
2		7230.000	48.50	-4.20	44.30	74.00	-29.70	peak			
3	*	9642.000	47.66	-0.11	47.55	74.00	-26.45	peak			

*: Maximum data x:Over limit !:over margin (Reference Only



[TestMode: Test channel:lowest]; [Polarity: Vertical] Radiated Emission Measurement



Site

Limit: FCC Part15 (PK)

EUT: WIFI Module M/N: 6189S-SF Mode: TX-B-L

Note:

Polarization:	Vertical	remperature:	
Power:		Humidity:	C

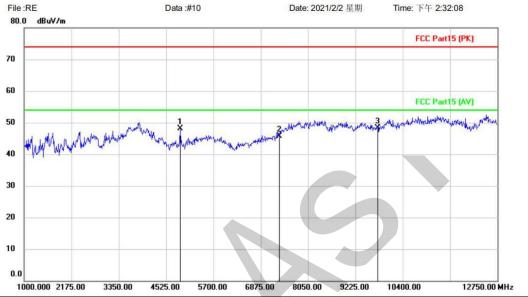
Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4818.750	55.79	-7.31	48.48	74.00	-25.52	peak			
2		7230.000	49.44	-4.20	45.24	74.00	-28.76	peak			
3	*	9642.000	50.95	-0.11	50.84	74.00	-23.16	peak			

*:Maximum data (Reference Only x:Over limit !:over margin



[TestMode: Test channel:Middle]; [Polarity: Horizontal] Radiated Emission Measurement



Site Limit: FCC Part15 (PK)

EUT: WIFI Module M/N: 6189S-SF Mode: TX-B-M

Note:

2 3

Polarization: Horizontal Temperature: Power: Humidity:

Distance: 3m

No. M	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	4877.500	55.67	-7.50	48.17	74.00	-25.83	peak			
2	7329.000	48.99	-3.31	45.68	74.00	-28.32	peak			
3 *	9771 000	47.63	0.50	18 22	74.00	-25.78	neak			

*:Maximum data (Reference Only x:Over limit !:over margin

Humidity:



[TestMode: Test channel:Middle]; [Polarity: Vertical] Radiated Emission Measurement



Site Limit: FCC Part15 (PK)

EUT: WIFI Module

M/N: 6189S-SF Mode: TX-B-M

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Height Degre	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4877.500	55.32	-7.50	47.82	74.00	-26.18	peak			
2		7329.000	50.29	-3.31	46.98	74.00	-27.02	peak			
3	*	9771.000	47.29	0.59	47.88	74.00	-26.12	peak			

Power:

Distance: 3m

*:Maximum data (Reference Only x:Over limit !:over margin

Humidity:



[TestMode: Test channel:Highest]; [Polarity: Horizontal] Radiated Emission Measurement



Site

Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-B-H

Note:

No.	Mk.	The second second	Freq.		Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment		
1		4944.000	50.97	-7.15	43.82	74.00	-30.18	peak					
2		7416.000	50.56	-2.57	47.99	74.00	-26.01	peak					
3	*	9888.000	47.35	1.40	48.75	74.00	-25.25	peak					

Power:

Distance: 3m

*:Maximum data (Reference Only x:Over limit !:over margin

Humidity:



[TestMode: Test channel:Highest]; [Polarity: Vertical] Radiated Emission Measurement



Site

Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-B-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		4936.250	54.93	-7.22	47.71	74.00	-26.29	peak			
2		7416.000	49.94	-2.57	47.37	74.00	-26.63	peak			
3	*	9888.000	46.80	1.40	48.20	74.00	-25.80	peak			

Power:

Distance: 3m

*:Maximum data (Reference Only x:Over limit !:over margin



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9 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Jozu
Temperature	25℃
Humidity	60%

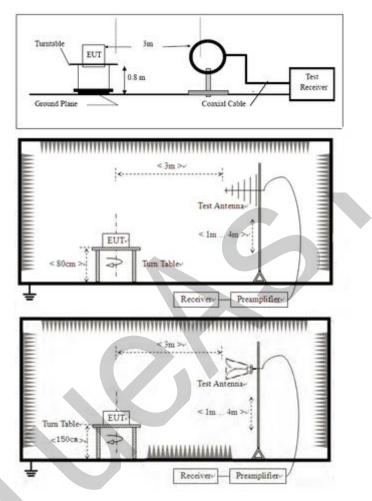
9.1 LIMITS

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

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



9.2 BLOCK DIAGRAM OF TEST SETUP



9.3 PROCEDURE

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



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

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

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

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



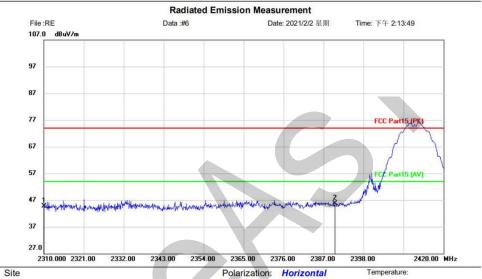


9.4 TEST DATA

[TestMode: 802.11b]; [Polarity: Horizontal]



Company:BlueAsia of Technical Services(Shenzhen) Co.,Ltd. Address:深圳市宝安区石岩石环路107号鸿景达产业园C栋Tel: +86-755-23059481



Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-L Note:

No. Mk.		Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	23	310.000	60.22	-15.49	44.73	74.00	-29.27	peak			
2 *	23	90.000	60.93	-15.18	45.75	74.00	-28.25	peak			

Power:

Distance: 3m

Humidity:

*:Maximum data x:Over limit !:over margin \(\text{Reference Only} \)

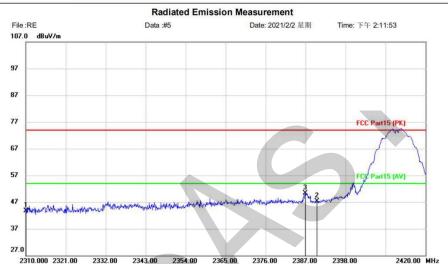
File :RE\Data :#6 Page: 1 Engineer Signature:



[TestMode: 802.11b]; [Polarity: Vertical]



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Polarization:

Power:

Site
Limit: FCC Part15 (PK)
EUT: WIFI Module
M/N: 6189S-SF

M/N: 6189S-SI Mode: TX-L Note:

ristarioc.		
<i>y</i>		

Humidity:

Vertical

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2310.000	59.20	-15.49	43.71	74.00	-30.29	peak			
2	2390.000	62.56	-15.18	47.38	74.00	-26.62	peak			
3 *	2386.890	65.45	-15.19	50.26	74.00	-23.74	peak			

*:Maximum data x:Over limit !:over margin (Reference Only

File :RE\Data :#5 Page: 1 Engineer Signature:

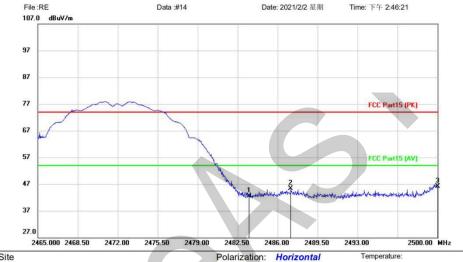


[TestMode: 802.11b]; [Polarity: Horizontal]



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Radiated Emission Measurement Data :#14 File:RE 107.0 dBuV/m



Site Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-B-H Note:

e-	Limit	Over		Antenna Height	Table Degree	11	
	dBuV/m	dB	Detector	cm	degree	Comment	

Humidity:

No. Mk	c. Freq.	Reading Level	Correct	Measure- ment	Limit	Over		Antenna Height	Table Degree		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	2483.500	57.32	-14.79	42.53	74.00	-31.47	peak				
2	2487.155	60.17	-14.78	45.39	74.00	-28.61	peak				
3 *	2500.000	60.81	-14.72	46.09	74.00	-27.91	peak				-

Power:

Distance: 3m

*:Maximum data x:Over limit !:over margin Reference Only

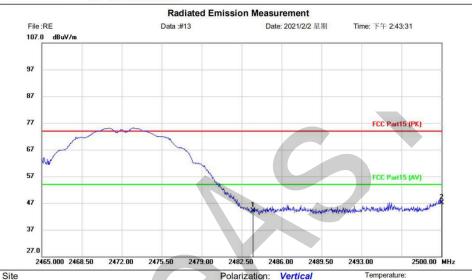
File :RE\Data :#14 Engineer Signature: Page: 1



[TestMode: 802.11b]; [Polarity: Vertical]



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Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-B-H Note:

Polarization:	Vertical	Temperature:
Power:		Humidity:

Distance: 3m

Reading Correct Measure-Antenna Table No. Mk. Freq. Limit Factor Height Degree Level ment MHz dBuV dBuV/m dBuV/m Detector degree Comment 2483.500 58.88 -14.79 44.09 74.00 -29.91 peak 2500.000 61.89 -14.72 47.17 74.00 -26.83 peak

*:Maximum data x:Over limit !:over margin (Reference Only

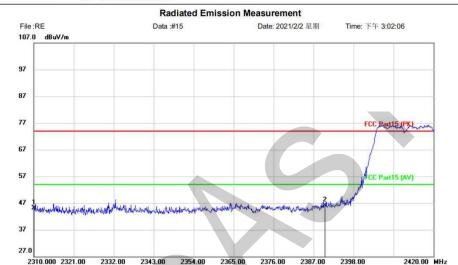
File :RE\Data :#13 Page: 1 Engineer Signature:



[TestMode: 802.11g]; [Polarity: Horizontal]



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Site Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-G-L Note:

Polarization:	Horizontai	remperature	
Power:		Humidity:	9

Distance: 3m

No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	1	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	60.57	-15.49	45.08	74.00	-28.92	peak			
2	*	2390.000	61.19	-15.18	46.01	74.00	-27.99	peak			

*:Maximum data x:Over limit !:over margin Reference Only

File :RE\Data :#15

Page: 1

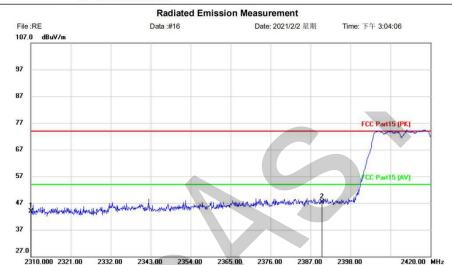
Engineer Signature:



[TestMode: 802.11g]; [Polarity: Vertical]



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Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-G-L Note:

Site

Polarization:	Vertical	Temperatur
Power:		Humidity:

Distance:	3m	
Distance.	Jill	

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1	2310.000	59.40	-15.49	43.91	74.00	-30.09	peak				
2 *	2390,000	62.39	-15.18	47.21	74.00	-26.79	peak				_

*:Maximum data x:Over limit !:over margin (Reference Only

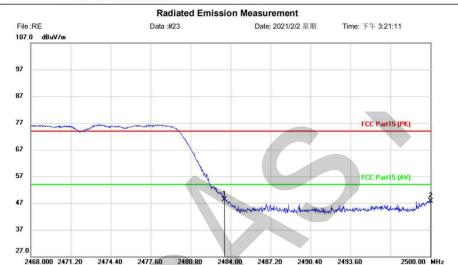
File: RE\Data: #16 Page: 1 Engineer Signature:



[TestMode: 802.11g]; [Polarity: Horizontal]



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Site Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-G-H Note:

Polarization:	Horizontai	remperature	
Power:		Humidity:	9

Distance: 3m

No.	М	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		$\overline{}$	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2	483.500	63.05	-14.79	48.26	74.00	-25.74	peak			
2		2	500.000	62.38	-14.72	47.66	74.00	-26.34	peak			

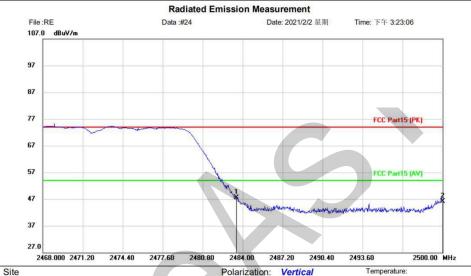
*:Maximum data x:Over limit !:over margin Reference Only

File :RE\Data :#23 Engineer Signature: Page: 1



[TestMode: 802.11g]; [Polarity: Vertical]

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Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-G-H Note:

Polarization:	Vertical	Temperatur
Power:		Humidity:

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	2483.500	62.31	-14.79	47.52	74.00	-26.48	peak			
2		2500.000	60.80	-14.72	46.08	74.00	-27.92	peak			

*:Maximum data x:Over limit !:over margin Reference Only

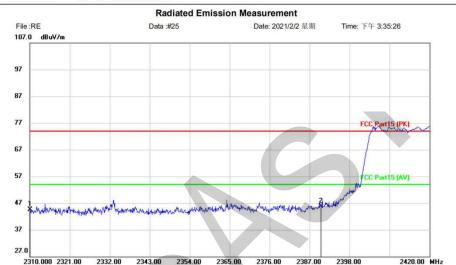
File :RE\Data :#24 Engineer Signature: Page: 1



[TestMode: 802.11n20]; [Polarity: Horizontal]



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Site Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N20-L Note:

Polarization:	Horizontal	Temperature	9:
Power:		Humidity:	%

Distance: 3m

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		2310.000	60.04	-15.49	44.55	74.00	-29.45	peak				
2	*	2390.000	60.96	-15.18	45.78	74.00	-28.22	peak				

*:Maximum data x:Over limit !:over margin Reference Only

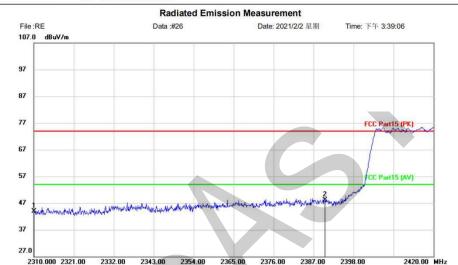
File :RE\Data :#25 Engineer Signature: Page: 1



[TestMode: 802.11n20]; [Polarity: Vertical]



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Site Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N20-L Note:

larization:	Vertical	Temperature:	
wer:		Humidity:	

Engineer Signature:

Distance: 3m

No.	Mk	. Freq.	Reading Level	Correct	Measure- ment	Limit	Over		Antenna Height			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment	
1		2310.000	59.49	-15.49	44.00	74.00	-30.00	peak				
2	*	2390.000	63.35	-15.18	48.17	74.00	-25.83	peak				1

*:Maximum data x:Over limit !:over margin Reference Only

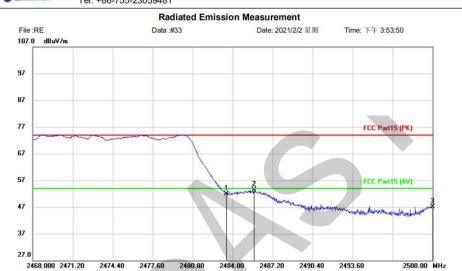
File :RE\Data :#26 Page: 1



[TestMode: 802.11n20]; [Polarity: Horizontal]

SET BLUE ASIA

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Polarization: Horizontal

Distance: 3m

Humidity:

Site
Limit: FCC Part15 (PK)
EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N20-H Note:

No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	66.66	-14.79	51.87	74.00	-22.13	peak			
2	*	2485.728	68.31	-14.78	53.53	74.00	-20.47	peak			
3		2500.000	61.73	-14.72	47.01	74.00	-26.99	peak			

*:Maximum data x:Over limit !:over margin (Reference Only

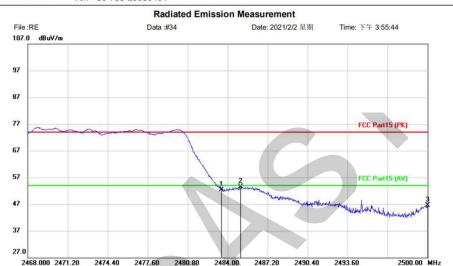
File :RE\Data :#33 Page: 1 Engineer Signature:



[TestMode: 802.11n20]; [Polarity: Vertical]



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Polarization:

Distance: 3m

Power:

Vertical

Humidity:

Site Limit: FCC Part15 (PK) EUT: WIFI Module M/N: 6189S-SF

M/N: 61895-SF Mode: TX-N20-H Note:

No.	٨	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	1
		\neg	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2	2483.500	67.12	-14.79	52.33	74.00	-21.67	peak			
2	*	* 2	2485.056	68.27	-14.78	53.49	74.00	-20.51	peak			
3		2	2500.000	61.15	-14.72	46.43	74.00	-27.57	peak			

*:Maximum data x:Over limit !:over margin (Reference Only

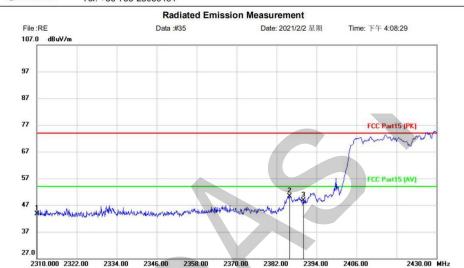
File :RE\Data :#34 Page: 1 Engineer Signature:



[TestMode: 802.11n40]; [Polarity: Horizontal]



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Site
Limit: FCC Part15 (PK)
EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N40-L Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2310.000	59.12	-15.49	43.63	74.00	-30.37	peak			
2	*	2385.840	65.42	-15.19	50.23	74.00	-23.77	peak			
3		2390.000	63.89	-15.18	48.71	74.00	-25.29	peak			

Polarization:

Distance: 3m

Power:

Horizontal

Humidity:

*:Maximum data x:Over limit !:over margin (Reference Only

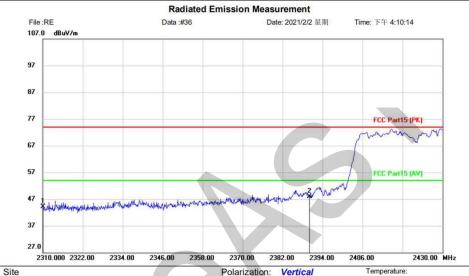
File :RE\Data :#35 Page: 1 Engineer Signature:



[TestMode: 802.11n40]; [Polarity: Vertical]



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Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N40-L Note:

Polarization: Vertical Power: Humidity:

Distance: 3m

No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2310.000	59.60	-15.49	44.11	74.00	-29.89	peak			
2 *	2390 000	63 13	-15 18	47 95	74 00	-26.05	neak			

*:Maximum data x:Over limit !:over margin Reference Only

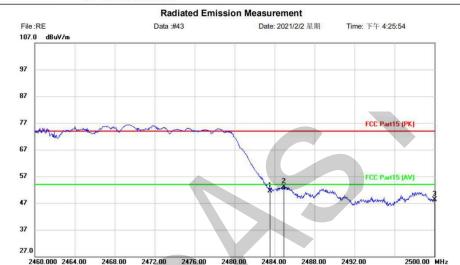
File :RE\Data :#36 Engineer Signature: Page: 1



[TestMode: 802.11n40]; [Polarity: Horizontal]



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Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N40-H

Note:

Site

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	1
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		2483.500	66.25	-14.79	51.46	74.00	-22.54	peak			
2	*	2484.920	67.95	-14.78	53.17	74.00	-20.83	peak			
3		2500.000	63.01	-14.72	48.29	74.00	-25.71	peak			

Power:

Distance: 3m

Polarization: Horizontal

Humidity:

*:Maximum data x:Over limit !:over margin (Reference Only

File :RE\Data :#43 Page: 1 Engineer Signature:



[TestMode: 802.11n40]; [Polarity: Vertical]



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Radiated Emission Measurement File:RE Data :#44 Date: 2021/2/2 星期 Time: 下午 4:28:20 107.0 dBuV/m 97 77 FCC Part15 (PK) 67 57 47 37 2480.00 2500.00 MHz 2472.00 2484.00

Site Limit: FCC Part15 (PK) EUT: WIFI Module

M/N: 6189S-SF Mode: TX-N40-H Polarization: Vertical

Humidity:

Distance: 3m

Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	2483.500	65.45	-14.79	50.66	74.00	-23.34	peak			
2 *	2488.880	67.51	-14.78	52.73	74.00	-21.27	peak			
3	2500.000	61.95	-14.72	47.23	74.00	-26.77	peak			

*:Maximum data x:Over limit !:over margin Reference Only

File :RE\Data :#44

Page: 1

Engineer Signature: