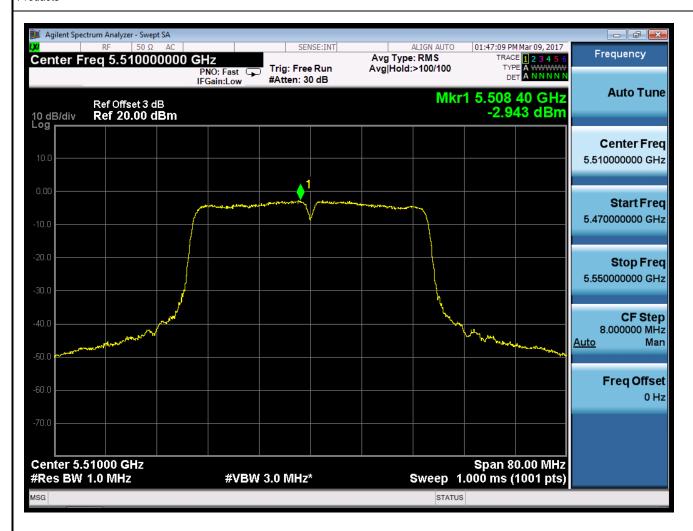
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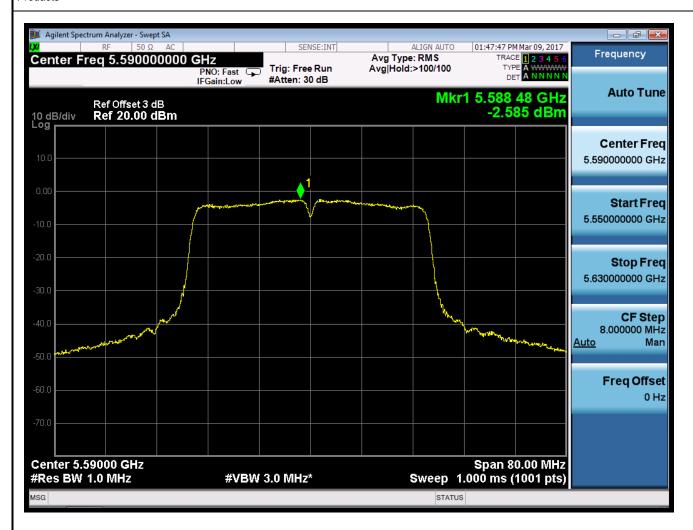
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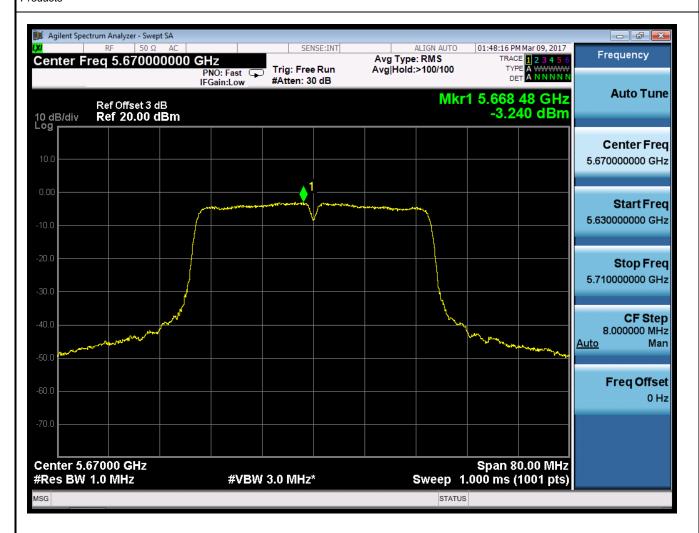
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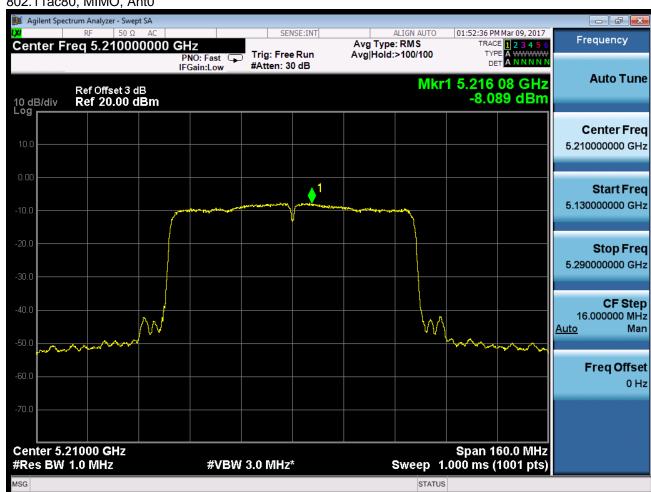
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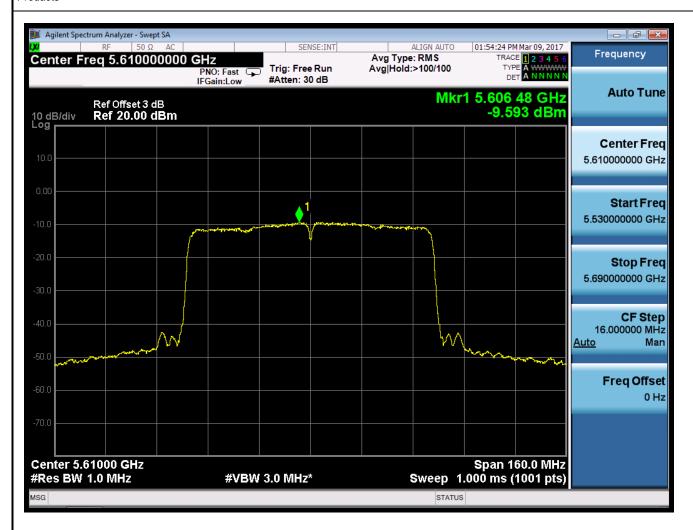
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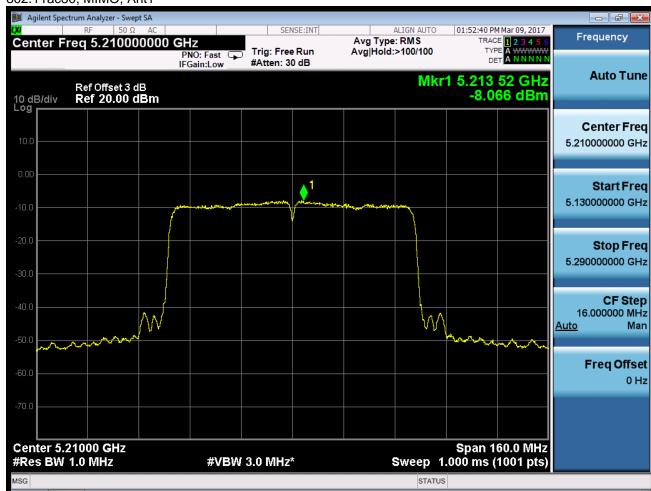
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802.11ac80, MIMO, Ant1



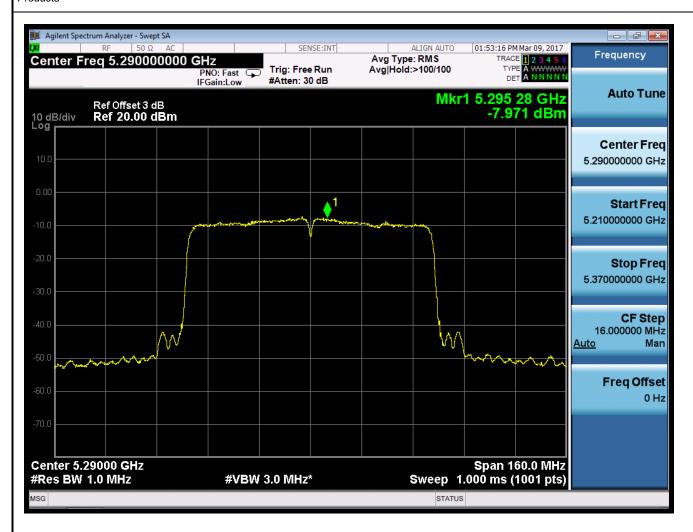
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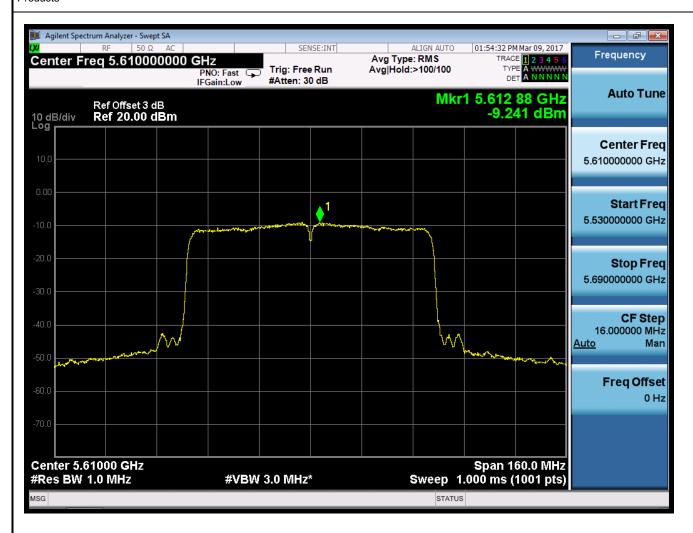
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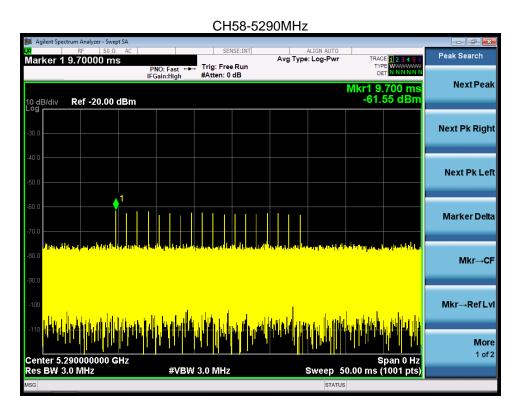


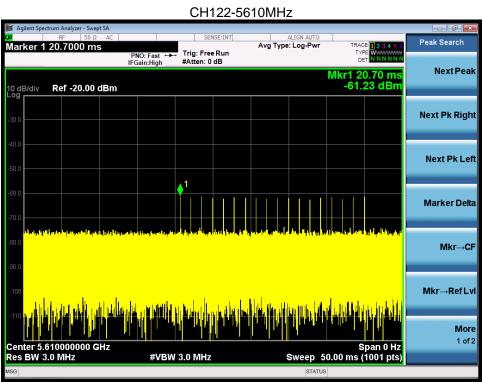


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5. Dynamic Frequency Selection (DFS)

5.1 Radar Waveform calibration



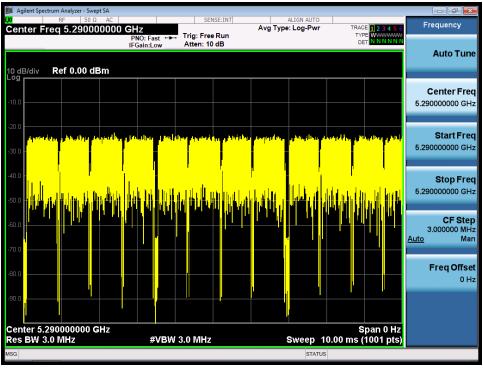


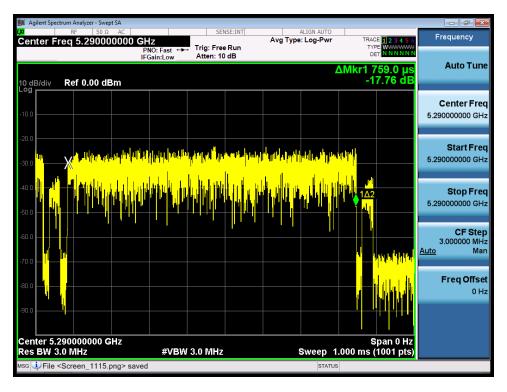


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5.2 Channel Loading

CH58-5290MHz





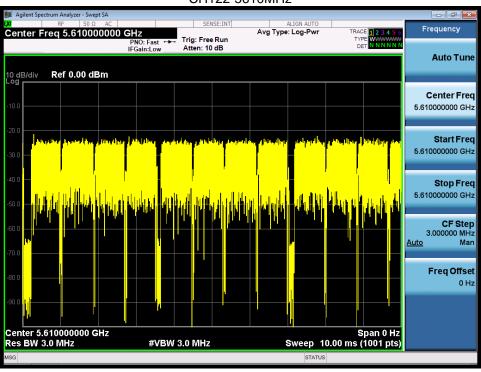
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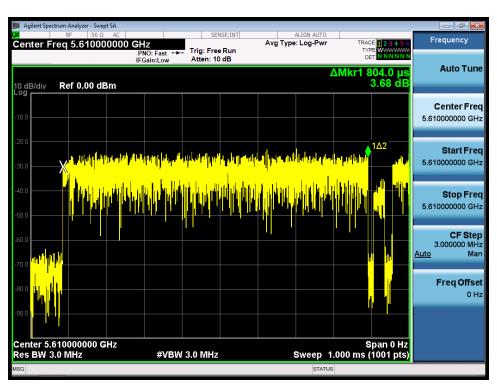


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CH122-5610MHz





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5.3 Test Datas

Channel Frequency	Minimum channel loading	Items	Measured	Limit	Result
		Channel Move Time	0.649s	10s	Pass
CH58-5290MHz	>17%	Channel Closing Transmission Time	<200ms+<60ms	200ms+aggregate of 60ms over remaining 10s period	Pass
		Non-Occupancy Period	>1800s	30 min.	Pass
		Channel Move Time	0.597s	10s	Pass
CH122- 5610MHz	>17%	Channel Closing Transmission Time	<200ms+<60ms	200ms+aggregate of 60ms over remaining 10s period	Pass
		Non-Occupancy Period	>1800s	30 min.	Pass

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5.4 Test Graphs

CH58-5290MHz





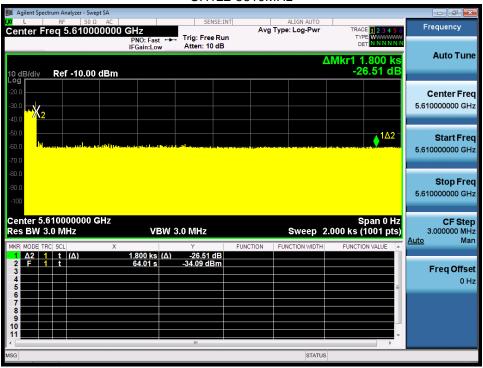
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CH122-5610MHz





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6. Transmitter Spurious Emissions

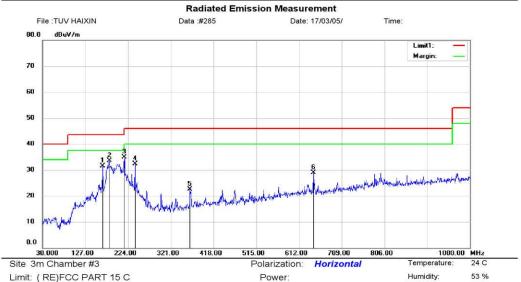
Note:1, Testing is carried out with frequency rang 9kHz to the tenth harmonics.

2, The margin is greater than 20 dB are not shown in this Appendix.

6.1 Transmitter Spurious Emissions, Below 1GHz

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EUT: WIFI Module M/N:

Mode:11a 5180(Ant0)

Note

Mk	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
	166.7700	49.72	-18.31	31.41	43.50	-12.09	QP			
	181.3200	53.42	-19.83	33.59	43.50	-9.91	QP			
*	215.2700	49.86	-14.92	34.94	43.50	-8.56	QP			
	239.5200	46.30	-14.09	32.21	46.00	-13.79	QP			
	364.6500	32.88	-10.29	22.59	46.00	-23.41	QP			
	644.9800	33.49	-4.58	28.91	46.00	-17.09	QP			
		MHz 166.7700 181.3200 * 215.2700 239.5200 364.6500	Mk. Freq. Level MHz dBuV 166.7700 49.72 181.3200 53.42 * 215.2700 49.86 239.5200 46.30 364.6500 32.88	Mk. Freq. Level Factor MHz dBuV dB 166.7700 49.72 -18.31 181.3200 53.42 -19.83 * 215.2700 49.86 -14.92 239.5200 46.30 -14.09 364.6500 32.88 -10.29	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 166.7700 49.72 -18.31 31.41 181.3200 53.42 -19.83 33.59 * 215.2700 49.86 -14.92 34.94 239.5200 46.30 -14.09 32.21 364.6500 32.88 -10.29 22.59	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 166.7700 49.72 -18.31 31.41 43.50 181.3200 53.42 -19.83 33.59 43.50 * 215.2700 49.86 -14.92 34.94 43.50 239.5200 46.30 -14.09 32.21 46.00 364.6500 32.88 -10.29 22.59 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB 166.7700 49.72 -18.31 31.41 43.50 -12.09 181.3200 53.42 -19.83 33.59 43.50 -9.91 * 215.2700 49.86 -14.92 34.94 43.50 -8.56 239.5200 46.30 -14.09 32.21 46.00 -13.79 364.6500 32.88 -10.29 22.59 46.00 -23.41	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 166.7700 49.72 -18.31 31.41 43.50 -12.09 QP 181.3200 53.42 -19.83 33.59 43.50 -9.91 QP * 215.2700 49.86 -14.92 34.94 43.50 -8.56 QP 239.5200 46.30 -14.09 32.21 46.00 -13.79 QP 364.6500 32.88 -10.29 22.59 46.00 -23.41 QP	Mk. Freq. Level Factor ment Limit Over Height MHz dBuV dB dBuV/m dB uV/m dB Detector cm 166.7700 49.72 -18.31 31.41 43.50 -12.09 QP 181.3200 53.42 -19.83 33.59 43.50 -9.91 QP * 215.2700 49.86 -14.92 34.94 43.50 -8.56 QP 239.5200 46.30 -14.09 32.21 46.00 -13.79 QP 364.6500 32.88 -10.29 22.59 46.00 -23.41 QP	Mk. Freq. Level Factor ment Limit Over Height Degree MHz dBuV dB dBuV/m dBuV/m dB Detector cm degree 166.7700 49.72 -18.31 31.41 43.50 -12.09 QP -18.31 -19.83 33.59 43.50 -9.91 QP -19.83 -14.92 34.94 43.50 -8.56 QP -14.92 34.94 43.50 -8.56 QP -14.92 34.94 46.00 -13.79 QP -14.92 364.6500 32.88 -10.29 22.59 46.00 -23.41 QP -14.92<

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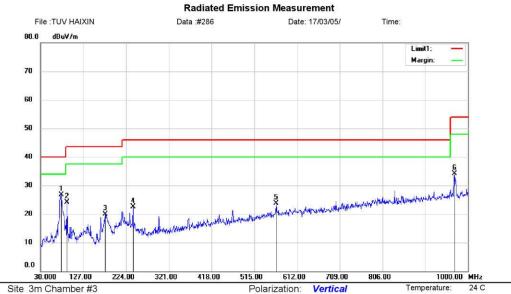
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Humidity:

53 %



Power:

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5180(Ant0)

Note:

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
*	76.5600	47.02	-20.32	26.70	40.00	-13.30	QP			
	90.1400	40.61	-16.41	24.20	43.50	-19.30	QP			
	176.4700	37.21	-17.34	19.87	43.50	-23.63	QP			
	239.5200	36.53	-14.09	22.44	46.00	-23.56	QP			
	564.4700	29.66	-5.93	23.73	46.00	-22.27	QP			
	968.9600	34.39	-0.20	34.19	54.00	-19.81	QP			
	*	MHz * 76.5600	Mk. Freq. Level MHz dBuV * 76.5600 47.02 90.1400 40.61 176.4700 37.21 239.5200 36.53 564.4700 29.66	Mk. Freq. Level dBuV dB * 76.5600 47.02 -20.32 90.1400 40.61 -16.41 176.4700 37.21 -17.34 239.5200 36.53 -14.09 564.4700 29.66 -5.93	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 76.5600 47.02 -20.32 26.70 90.1400 40.61 -16.41 24.20 176.4700 37.21 -17.34 19.87 239.5200 36.53 -14.09 22.44 564.4700 29.66 -5.93 23.73	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m * 76.5600 47.02 -20.32 26.70 40.00 90.1400 40.61 -16.41 24.20 43.50 176.4700 37.21 -17.34 19.87 43.50 239.5200 36.53 -14.09 22.44 46.00 564.4700 29.66 -5.93 23.73 46.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB * 76.5600 47.02 -20.32 26.70 40.00 -13.30 90.1400 40.61 -16.41 24.20 43.50 -19.30 176.4700 37.21 -17.34 19.87 43.50 -23.63 239.5200 36.53 -14.09 22.44 46.00 -23.56 564.4700 29.66 -5.93 23.73 46.00 -22.27	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector * 76.5600 47.02 -20.32 26.70 40.00 -13.30 QP 90.1400 40.61 -16.41 24.20 43.50 -19.30 QP 176.4700 37.21 -17.34 19.87 43.50 -23.63 QP 239.5200 36.53 -14.09 22.44 46.00 -23.56 QP 564.4700 29.66 -5.93 23.73 46.00 -22.27 QP	Mk. Freq. Level Factor ment Limit Over Height MHz dBuV dB dBuV/m dBuV/m dB Detector cm * 76.5600 47.02 -20.32 26.70 40.00 -13.30 QP 90.1400 40.61 -16.41 24.20 43.50 -19.30 QP 176.4700 37.21 -17.34 19.87 43.50 -23.63 QP 239.5200 36.53 -14.09 22.44 46.00 -23.56 QP 564.4700 29.66 -5.93 23.73 46.00 -22.27 QP	Mk. Freq. Level Factor ment Limit Over Height Degree MHz dBuV dB dBuV/m dBuV/m dB Detector cm degree * 76.5600 47.02 -20.32 26.70 40.00 -13.30 QP 90.1400 40.61 -16.41 24.20 43.50 -19.30 QP 176.4700 37.21 -17.34 19.87 43.50 -23.63 QP 239.5200 36.53 -14.09 22.44 46.00 -23.56 QP 564.4700 29.66 -5.93 23.73 46.00 -22.27 QP

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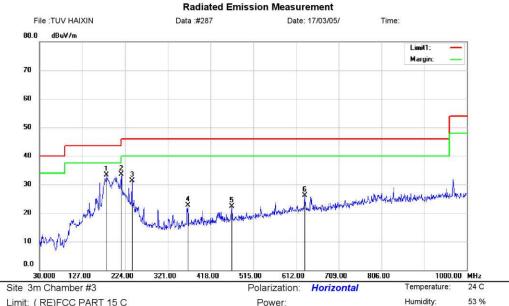
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Power:

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5200(Ant0)

Note:

No.	Mk	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		182.2900	53.22	-19.83	33.39	43.50	-10.11	QP			
2	*	215.2700	48.35	-14.92	33.43	43.50	-10.07	QP			
3		239.5200	45.49	-14.09	31.40	46.00	-14.60	QP			
4		366.5900	32.93	-10.26	22.67	46.00	-23.33	QP			
5		466.5000	30.59	-8.30	22.29	46.00	-23.71	QP			
6		631.4000	30.81	-4.71	26.10	46.00	-19.90	AVG			

Operator: KK

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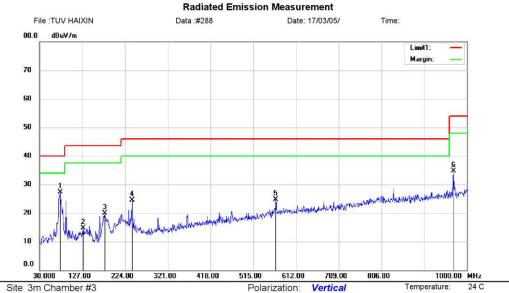
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Humidity:

Operator: KK

53 %



Power:

Site Siti Chamber #3

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5200(Ant0)

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	*	76.5600	47.55	-20.32	27.23	40.00	-12.77	QP			
2		128.9400	33.40	-18.69	14.71	43.50	-28.79	QP			
3		177.4400	37.13	-17.20	19.93	43.50	-23.57	QP			
4		239.5200	38.57	-14.09	24.48	46.00	-21.52	QP			
5		566.4100	30.63	-5.88	24.75	46.00	-21.25	QP			
6		968.9600	35.00	-0.20	34.80	54.00	-19.20	QP			

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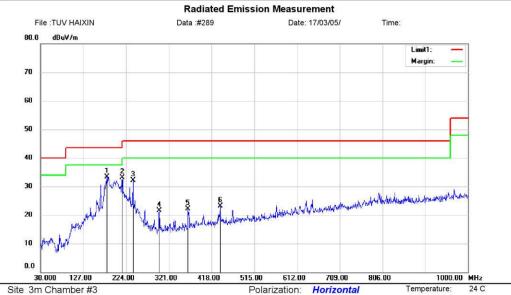
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Humidity:

Operator: KK

53 %



Power:

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5240(Ant0)

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	*	180.3500	53.13	-19.82	33.31	43.50	-10.19	QP			
2		215.2700	47.96	-14.92	33.04	43.50	-10.46	QP			
3		239.5200	46.15	-14.09	32.06	46.00	-13.94	QP			
4		299.6600	33.53	-12.02	21.51	46.00	-24.49	QP			
5		364.6500	32.43	-10.29	22.14	46.00	-23.86	QP			
6		437.4000	31.67	-8.65	23.02	46.00	-22.98	QP			

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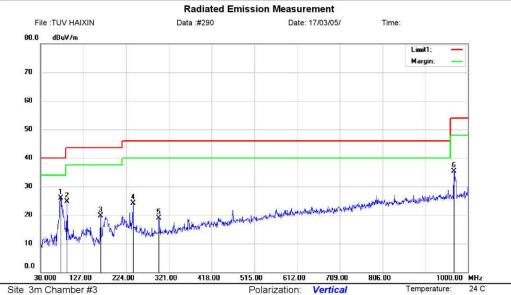
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Humidity:

Operator: KK

53 %



Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5240(Ant0)

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	*	75.5900	46.52	-20.54	25.98	40.00	-14.02	QP				
2		90.1400	41.02	-16.41	24.61	43.50	-18.89	QP				
3		165.8000	37.96	-18.31	19.65	43.50	-23.85	QP				
4		239.5200	38.27	-14.09	24.18	46.00	-21.82	QP				
5		298.6900	30.92	-12.07	18.85	46.00	-27.15	QP				
6		967.9900	35.48	-0.20	35.28	54.00	-18.72	QP				

Power:

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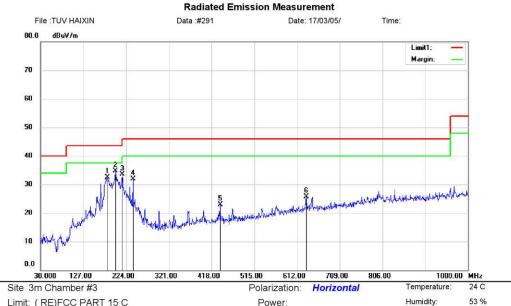
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Operator: KK



Power:

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5260(Ant0)

Note:

No.	Mk		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		181.3200	52.25	-19.83	32.42	43.50	-11.08	QP			
2	*	199.7500	50.90	-16.21	34.69	43.50	-8.81	QP			
3		215.2700	48.36	-14.92	33.44	43.50	-10.06	QP			
4		239.5200	45.96	-14.09	31.87	46.00	-14.13	QP			
5		437.4000	31.52	-8.65	22.87	46.00	-23.13	QP			
6		633.3400	30.38	-4.69	25.69	46.00	-20.31	QP			

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53 %

Humidity:

Operator: KK

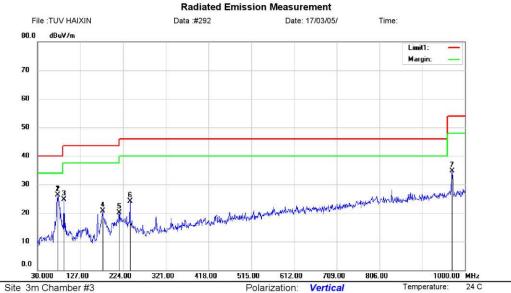
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Power:

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5260(Ant0)

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	*	75.5900	46.90	-20.54	26.36	40.00	-13.64	peak			
2	*	75.5900	46.90	-20.54	26.36	40.00	-13.64	peak			
3		90.1400	41.21	-16.41	24.80	43.50	-18.70	QP			
4		177.4400	37.81	-17.20	20.61	43.50	-22.89	QP			
5		215.2700	34.98	-14.92	20.06	43.50	-23.44	QP			
6		239.5200	38.18	-14.09	24.09	46.00	-21.91	QP			
7		970.9000	34.87	-0.17	34.70	54.00	-19.30	peak			

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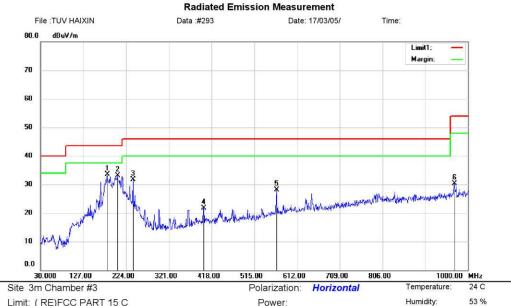
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Power:

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5280(Ant0)

Note:

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
*	181.3200	53.24	-19.83	33.41	43.50	-10.09	QP			
	204.6000	48.89	-15.81	33.08	43.50	-10.42	QP			
	239.5200	45.89	-14.09	31.80	46.00	-14.20	QP			
	400.5400	31.04	-9.24	21.80	46.00	-24.20	QP			
	565.4400	33.93	-5.90	28.03	46.00	-17.97	QP			
	968.9600	30.53	-0.20	30.33	54.00	-23.67	QP			
		* 181.3200 204.6000 239.5200 400.5400 565.4400	Mk. Freq. Level MHz dBuV * 181.3200 53.24 204.6000 48.89 239.5200 45.89 400.5400 31.04 565.4400 33.93	Mk. Freq. Level dBuV dB * 181.3200 53.24 -19.83 204.6000 48.89 -15.81 239.5200 45.89 -14.09 400.5400 31.04 -9.24 565.4400 33.93 -5.90	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m * 181.3200 53.24 -19.83 33.41 204.6000 48.89 -15.81 33.08 239.5200 45.89 -14.09 31.80 400.5400 31.04 -9.24 21.80 565.4400 33.93 -5.90 28.03	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB * 181.3200 53.24 -19.83 33.41 43.50 -10.09 204.6000 48.89 -15.81 33.08 43.50 -10.42 239.5200 45.89 -14.09 31.80 46.00 -14.20 400.5400 31.04 -9.24 21.80 46.00 -24.20 565.4400 33.93 -5.90 28.03 46.00 -17.97	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector * 181.3200 53.24 -19.83 33.41 43.50 -10.09 QP 204.6000 48.89 -15.81 33.08 43.50 -10.42 QP 239.5200 45.89 -14.09 31.80 46.00 -14.20 QP 400.5400 31.04 -9.24 21.80 46.00 -24.20 QP 565.4400 33.93 -5.90 28.03 46.00 -17.97 QP	Mk. Freq. Level Factor ment Limit Over Height MHz dBuV dB dBuV/m dBuV/m dB Detector cm * 181.3200 53.24 -19.83 33.41 43.50 -10.09 QP 204.6000 48.89 -15.81 33.08 43.50 -10.42 QP 239.5200 45.89 -14.09 31.80 46.00 -14.20 QP 400.5400 31.04 -9.24 21.80 46.00 -24.20 QP 565.4400 33.93 -5.90 28.03 46.00 -17.97 QP	Mk. Freq. Level Factor ment Limit Over Height Degree MHz dBuV dB dBuV/m dBuV/m dB Detector cm degree * 181.3200 53.24 -19.83 33.41 43.50 -10.09 QP 204.6000 48.89 -15.81 33.08 43.50 -10.42 QP 239.5200 45.89 -14.09 31.80 46.00 -14.20 QP 400.5400 31.04 -9.24 21.80 46.00 -24.20 QP 565.4400 33.93 -5.90 28.03 46.00 -17.97 QP

Operator: KK

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Produkte Products

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Shenzhen EMTEK Co., Ltd.

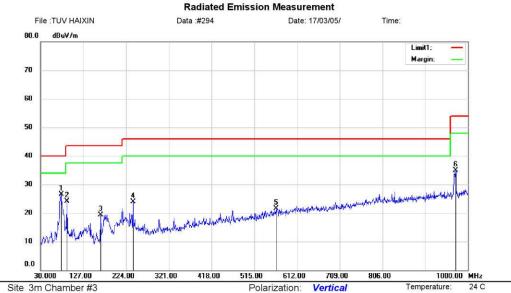
Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052 P.R. China www.emtek.com.on Tel:+86-755-2695 4280 Fax:+86-755-2695 4282



Humidity:

Operator: KK

53 %



Power:

Site Siti Champer #3

Limit: (RE)FCC PART 15 C

EUT: WIFI Module

M/N:

Mode:11a 5280(Ant0)

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	*	76.5600	46.82	-20.32	26.50	40.00	-13.50	QP			
2		90.1400	40.50	-16.41	24.09	43.50	-19.41	QP			
3		166.7700	37.67	-18.31	19.36	43.50	-24.14	QP			
4		239.5200	37.96	-14.09	23.87	46.00	-22.13	QP			
5		564.4700	27.52	-5.93	21.59	46.00	-24.41	QP			
6		971.8700	35.11	-0.16	34.95	54.00	-19.05	QP			