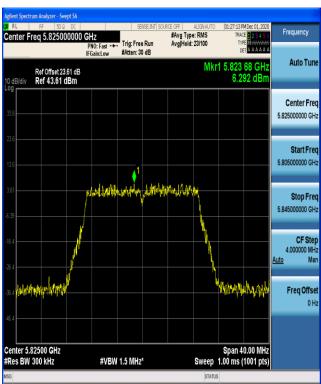
# **GTS**

Report No.: GTS202010000093F04





#### 802.11n(HT40)

Center Freg 5.755000000 GHz

Ref Offset 24.05 dB Ref 44.05 dBm

Center 5.75500 GHz

#Res BW 300 kHz



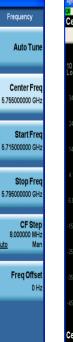
PNO: Fast → Trig: Free Run IFGain:Low #Atten: 30 dB

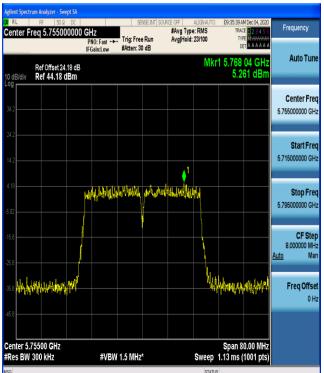
e le proposition de la company

#Avg Type: RMS Avg|Hold: 23/100

Mkr1 5.750 28 GH:

3.201 dB





ANT1

Global United Technology Services Co., Ltd.

#VBW 1.5 MHz\*

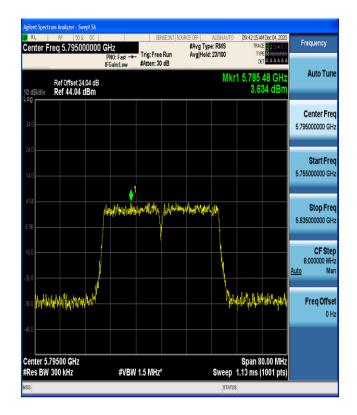
No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

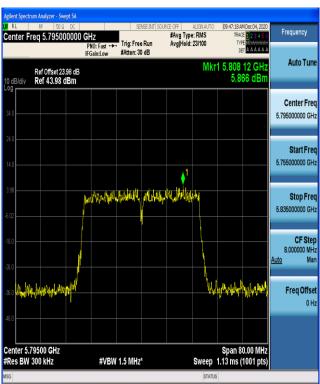
Span 80.00 MHz

Sweep 1.13 ms (1001 pts)

# **GTS**

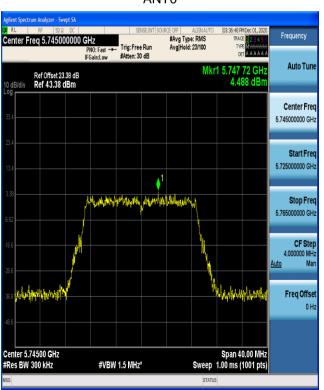
Report No.: GTS202010000093F04



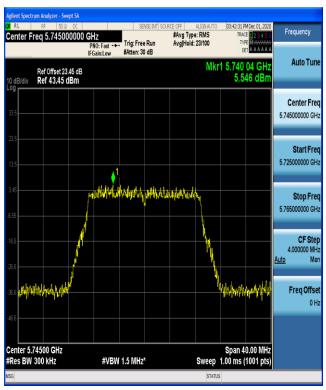


#### 802.11ax(HT20)

ANT<sub>0</sub>



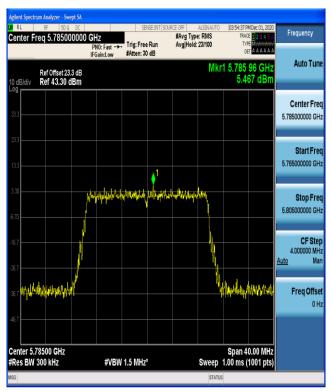


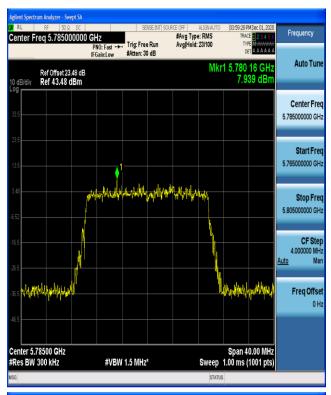


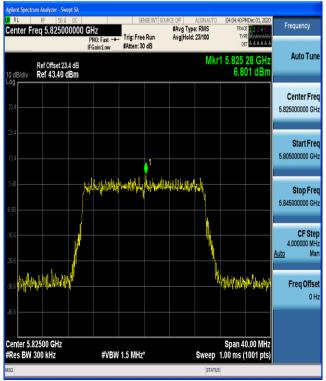
Global United Technology Services Co., Ltd.

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102







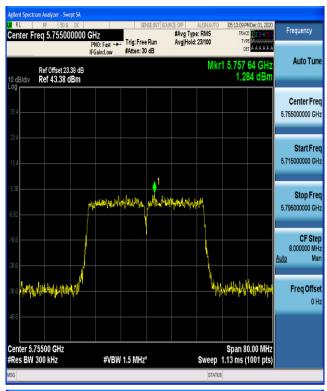


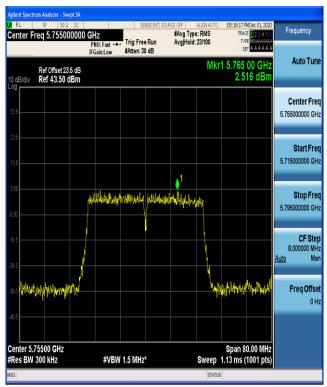


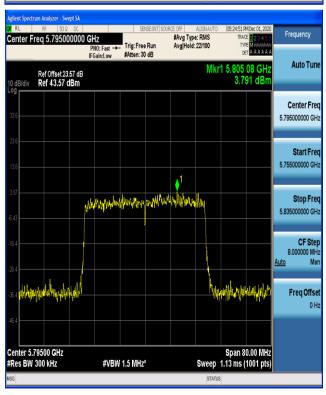


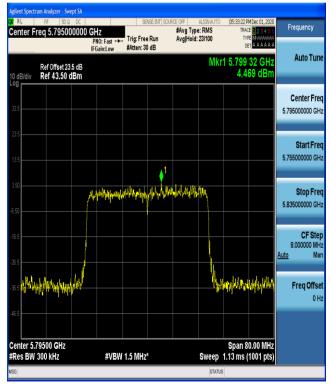
802.11ax(HT40)

#### ANT0 ANT1









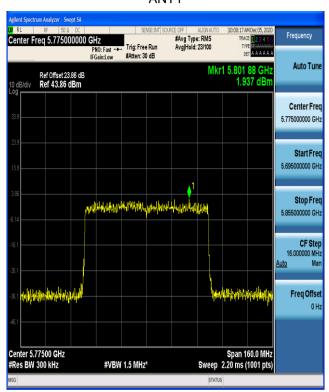


802.11ax(HT80)

#### ANT0

# Frequency #Avg Type: RMS Avg|Hold: 23/100 PNO: Fast --- Trig: Free Run IFGain:Low #Atten: 30 dB Auto Tune Ref Offset 23.68 dB Ref 43.68 dBm Center Fred 5.775000000 GH Start Freq 5 695000000 GH; Stop Freq 5.855000000 GHz CF Step 16.000000 MHz to Man Freq Offset Center 5.77500 GHz #Res BW 300 kHz Span 160.0 MHz Sweep 2.20 ms (1001 pts) #VBW 1.5 MHz\*

#### ANT1





# 7.6 Band edge

#### 7.6.1 Radiated Emission Method

Test Requirement:	FCC Part15 C S	Section 15.209 a	nd 15.205							
Test Method:	ANSI C63.10: 2	013								
Test Frequency Range:	9kHz to 40GHz,	only worse cas	e is reporte	d						
Test site:	Measurement D	istance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	Above 1GHz	Peak RMS	1MHz 1MHz	3MHz	Peak					
		3MHz	RMS							
Limit:	All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or									
	more above or below the band edge increasing linearly to 10 dBm/MHz at									
	25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz									
	above or below the band edge, and from 5 MHz above or below the bate edge increasing linearly to a level of 27 dBm/MHz at the band edge.									
Tost setup:	eage increasing	inearly to a lev	ei 0i 27 ubi	II/IVITZ at ti	ie band edge.					
Test setup:	Tum Table	< 3m	Test Antenna < 1m 4m >	1						
	Receiver Preamplifier									
Test Procedure:	the ground a determine the 2. The EUT was antenna, whi tower.  3. The antenna ground to de horizontal an measuremer  4. For each sus and then the and the rotathe maximum  5. The test-rece Specified Ba  6. If the emissic limit specified the EUT wou 10dB margin average metion.  7. The radiation And found the	t a 3 meter came position of the set 3 meters a ch was mounted the maximum the	ber. The tall highest race way from the don the top from one notimum value exations of the cations of the catio	ole was rotaliation. The interferer of a variable of the field of the field of the antenna and the first one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents one using period in X, Y tis worse contents on the time that	de-height antenna  If meters above the distrength. Both hare set to make the led to its worst case meter to 4 meters of degrees to find function and flodb lower than the led peak values of the led to its worst case meter to 4 meters of led to its worst case meter to 4 meters of led to its worst case meter to 4 meters of led to its worst case meter to 4 meters of led to its worst case meters of led to its worst					



Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

#### Remarks:

- 1. Only the worst case Main Antenna test data..
- 2. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
- 5. According to KDB 789033 D02v02r01 section G) 1) d),for measurements above 1000 MHz @3m distance, the limit of field strength is computed as follows:

E[dBuV/m] = EIRP[dBm] + 95.2;

E[dBuV/m] = -27 + 95.2 = 68.2dBuV/m.

E[dBuV/m] = 10 + 95.2 = 105.2dBuV/m.

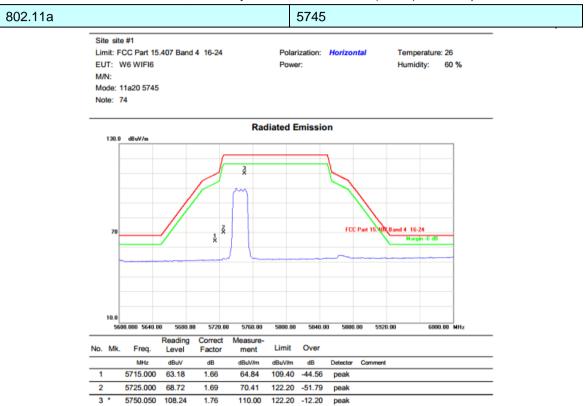
E[dBuV/m] = 15.6 + 95.2 = 110.8dBuV/m.

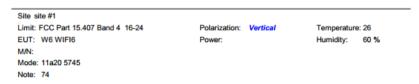
E[dBuV/m] = 27 + 95.2 = 122.2dBuV/m

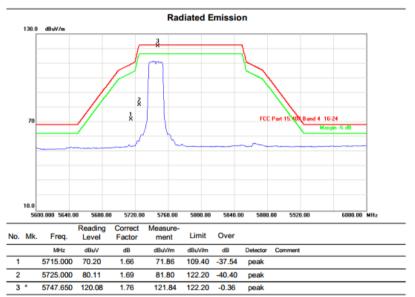


#### **Measurement Data:**

All the antennas were tested, and only show the worst case (ANT0) in this report.







## 802.11a 5200

Power:

Humidity: 60 %

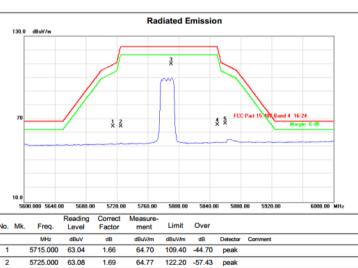
Site site #1

Limit: FCC Part 15.407 Band 4 16-24 EUT: W6 WIFI6

M/N:

Mode: 11a20 5785

Note: 74



122.20 -12.39

66.89 109.40 -42.51 peak

122.20 -56.37 peak

5790.010 107.93

5860.000 64.79

1.88

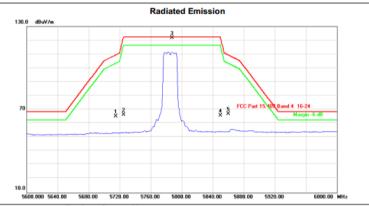
2.10

109.81

65.83



Site site #1
Limit: FCC Part 15.407 Band 4 16-24 Polarization: Vertical Temperature: 26
EUT: W6 WIFI6 Power: Humidity: 60 %
M/N:
Mode: 11a20 5785
Note: 74



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	63.44	1.66	65.10	109.40	-44.30	peak	
2		5725.000	64.52	1.69	66.21	122.20	-55.99	peak	
3	*	5787.610	119.74	1.88	121.62	122.20	-0.58	peak	
4		5850.000	63.65	2.07	65.72	122.20	-56.48	peak	
-5		5860 000	64 90	2 10	67.00	109.40	-42 40	neak	



#### 802.11a 5825

Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6 M/N:

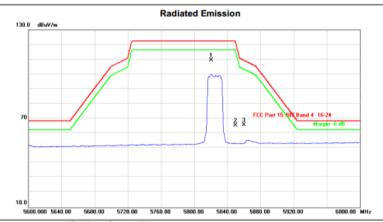
Site site #1

Mode: 11a20 5825 Note: 74

Polarization: Horizontal

Temperature: 26

Humidity: 60 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5820.780	107.48	1.98	109.46	122.20	-12.74	peak	
2		5850.000	63.34	2.07	65.41	122.20	-56.79	peak	
3		5860.000	63.43	2.10	65.53	109.40	-43.87	peak	

Site site #1

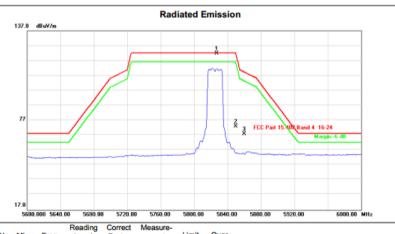
Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6

Mode: 11a20 5825 Note: 74

Polarization: Vertical

Temperature: 26 Humidity: 60 %

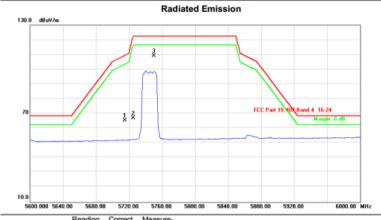


No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5827.170	119.77	2.00	121.77	122.20	-0.43	peak	
2		5850.000	70.83	2.07	72.90	122.20	-49.30	peak	
3		5860.000	65.81	2.10	67.91	109.40	-41.49	peak	



All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

# Site site #1 Limit: FCC Part 15.407 Band 4 16-24 EUT: W6 WIFI6 M/N: Mode: 11ax HT20 5745 Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	63.59	1.66	65.25	109.40	-44.15	peak	
2		5725.000	65.24	1.69	66.93	122.20	-55.27	peak	
3	*	5750.050	107.49	1.76	109.25	122.20	-12.95	peak	

Power:

Temperature: 26

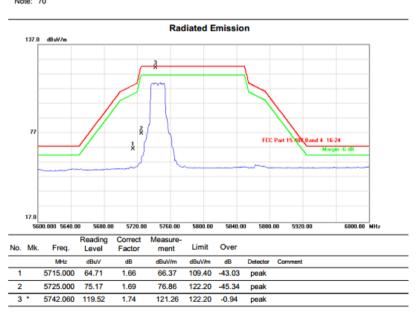
Humidity: 60 %

Site site #1

Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6

Mode: 11ax HT20 5745





#### 802.11axHT20

#### 5785

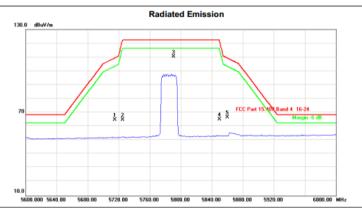
Site site #1 Limit: FCC Part 15.407 Band 4 16-24 EUT: W6 WIFI6 MN:

Power:

Temperature: 26 Humidity: 60 %

Mode: 11ax HT20 5785

Note: 70



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	62.99	1.66	64.65	109.40	-44.75	peak	
2		5725.000	63.04	1.69	64.73	122.20	-57.47	peak	
3	*	5790.410	108.60	1.88	110.48	122.20	-11.72	peak	
4		5850.000	63.12	2.07	65.19	122.20	-57.01	peak	
5		5860.000	64.30	2.10	66.40	109.40	-43.00	peak	-

Site site #1

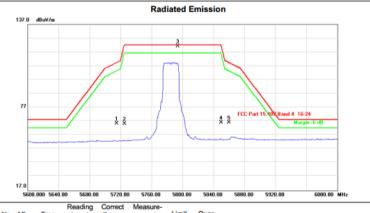
Limit: FCC Part 15.407 Band 4 16-24 EUT: W6 WIFI6

Polarization: Vertical
Power:

Temperature: 26 Humidity: 60 %

M/N:

Mode: 11ax HT20 5785



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	63.92	1.66	65.58	109.40	-43.82	peak	
2		5725.000	63.57	1.69	65.26	122.20	-56.94	peak	
3	*	5794.010	119.47	1.90	121.37	122.20	-0.83	peak	
4		5850.000	63.96	2.07	66.03	122.20	-56.17	peak	
5		5860.000	64.01	2.10	66.11	109.40	-43.29	peak	



#### 802.11axHT20 5825

Site site #1 Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6 M/N:

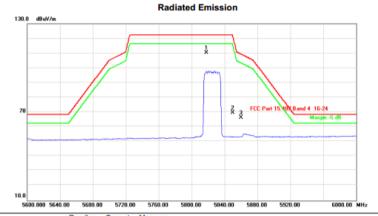
Mode: 11ax HT20 5825

Note: 70

Humidity: 60 % Power:

Temperature: 26

Humidity: 60 %



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	*	5817.980	108.37	1.97	110.34	122.20	-11.86	peak	
	2		5850.000	67.56	2.07	69.63	122.20	-52.57	peak	
,	3		5860.000	64.24	2.10	66.34	109.40	-43.06	peak	

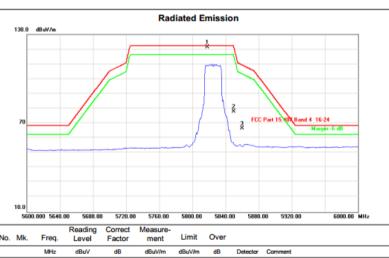
Power:

Site site #1

Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6 M/N:

Mode: 11ax HT20 5825



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5817.980	119.34	1.97	121.31	122.20	-0.89	peak	
2		5850.000	75.81	2.07	77.88	122.20	-44.32	peak	
3		5860.000	64.56	2.10	66.66	109.40	-42.74	peak	



#### 802.11axHT40

#### 5755

Polarization: Horizontal

Temperature: 26

Humidity: 60 %

Humidity: 60 %

Site site #1

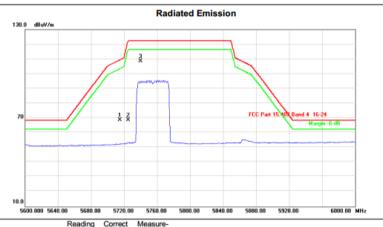
Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6

M/N:

Mode: 11ax HT40 5755

Note: 72



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	66.85	1.66	68.51	109.40	-40.89	peak	
2		5725.000	67.02	1.69	68.71	122.20	-53.49	peak	
3	*	5740.060	106.89	1.73	108.62	122.20	-13.58	peak	

Power:

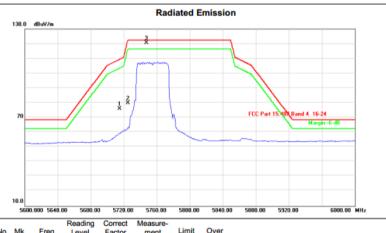
Site site #1

Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6

M/N:

Mode: 11ax HT40 5755



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		5715.000	74.19	1.66	75.85	109.40	-33.55	peak	
	2		5725.000	78.11	1.69	79.80	122.20	-42.40	peak	
-	3	*	5747 250	118 89	1.75	120 64	122 20	-1.56	neak	



#### 802.11ax HT40

#### 5795

Site site #1 Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6 M/N:

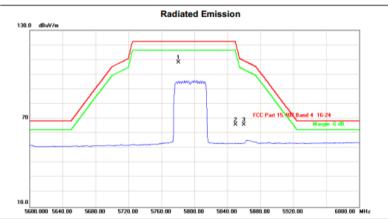
Mode: 11ax HT40 5795

Note: 72

Polarization: Horizontal Temperature: 26 Humidity: 60 %

Temperature: 26

Humidity: 60 %



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5780.420	106.47	1.85	108.32	122.20	-13.88	peak	
2		5850.000	63.76	2.07	65.83	122.20	-56.37	peak	
3		5860.000	63.83	2.10	65.93	109.40	-43.47	peak	

Power:

Site site #1

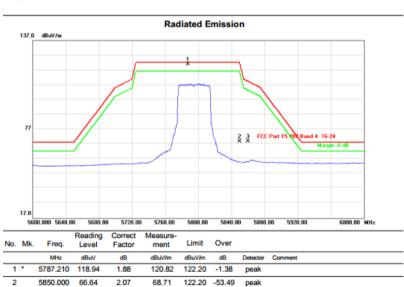
Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6

M/N:

Mode: 11ax HT40 5795

Note: 72



109.40 -40.73

peak

5860.000 66.57

2.10

68.67



#### 802.11ax HT80

#### 5775

Temperature: 26

Humidity: 60 %

6000.00 MHz

Temperature: 26

Humidity: 60 %

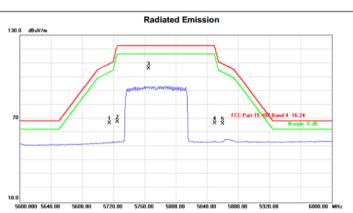
Polarization: Horizontal

Site site #1 Limit: FCC Part 15.407 Band 4 16-24 EUT: W6 WIFI6

M/N:

Mode: 11ax HT80 5775

Note: 74



Power:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	65.27	1.66	66.93	109.40	-42.47	peak	
2		5725.000	66.01	1.69	67.70	122.20	-54.50	peak	
3	*	5765.230	104.31	1.81	106.12	122.20	-16.08	peak	
4		5850.000	64.75	2.07	66.82	122.20	-55.38	peak	
5		5860.000	64.53	2.10	66.63	109.40	-42.77	peak	

Power:

Polarization: Vertical

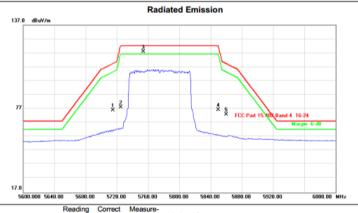
Site site #1

Limit: FCC Part 15.407 Band 4 16-24

EUT: W6 WIFI6

M/N:

Mode: 11ax HT80 5775



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5715.000	74.35	1.66	76.01	109.40	-33.39	peak	
2		5725.000	76.43	1.69	78.12	122.20	-44.08	peak	
3	*	5753.650	116.08	1.77	117.85	122.20	-4.35	peak	
4		5850.000	74.32	2.07	76.39	122.20	-45.81	peak	
- 5		5860 000	70.93	2 10	73.03	109.40	-36.37	neak	

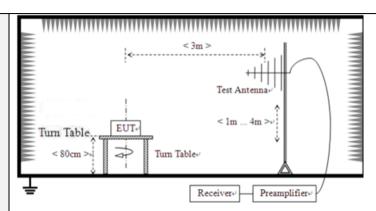


# 7.7 Spurious Emission

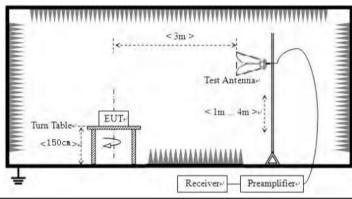
#### 7.7.1 Radiated Emission Method

FCC Part15 C Section 15.209, Part 15E Section 15.407(b)(4)								
ANSI C63.10:2013	3							
9kHz to 40GHz								
Measurement Dist	ance: 3	m						
Frequency	Dete	ector	RBW	VBW	Value			
9kHz-150KHz	Quasi-	200Hz	1kHz	Quasi-peak Value				
150kHz-30MHz	Quasi-	30kHz	Quasi-peak Value					
30MHz-1GHz					Quasi-peak Value			
Abovo 1GHz	Pea	ak	1MHz	3MHz	Peak Value			
Above 1GHz	A۱	V	1MHz	3MHz	Average Value			
Frequency		Limit	(uV/m)	Value	Measurement Distance			
0.009MHz-0.490	)MHz	2400	/F(KHz)	QP	300m			
0.490MHz-1.705	MHz	24000	/F(KHz)	QP	300m			
1.705MHz-30M	ИHz		30	QP	30m			
30MHz-88MF	lz	1	00	QP				
88MHz-216MI	Hz	150		QP	- 3m			
216MHz-960M	lHz	200		QP				
960MHz-1GF	łz	500		QP				
Frequency		Lim	it (dBm/MF	lz)	Remark			
Above 1GHz	Z		-27.0		Peak Value			
For radiated emi	ssions	********	n>	MHz ∰				
< 80cm >-	Ti		lm Receive					
	ANSI C63.10:2013 9kHz to 40GHz Measurement Dist Frequency 9kHz-150KHz 150kHz-30MHz 30MHz-1GHz Above 1GHz Frequency 0.009MHz-0.490 0.490MHz-1.705 1.705MHz-30M 30MHz-88MH 88MHz-216MI 216MHz-960M 960MHz-1GH	ANSI C63.10:2013  9kHz to 40GHz  Measurement Distance: 3  Frequency Deternal Distance: 3  Freq	ANSI C63.10:2013  9kHz to 40GHz  Measurement Distance: 3m  Frequency Detector 9kHz-150KHz Quasi-peak 150kHz-30MHz Quasi-peak 30MHz-1GHz Quasi-peak Above 1GHz Peak AV  Frequency Limit 0.009MHz-0.490MHz 24000 0.490MHz-1.705MHz 24000 1.705MHz-30MHz 30MHz-88MHz 1 88MHz-216MHz 1 216MHz-960MHz 2 960MHz-1GHz 5  Frequency Limit Above 1GHz  For radiated emissions from 9	ANSI C63.10:2013  9kHz to 40GHz  Measurement Distance: 3m  Frequency Detector RBW  9kHz-150KHz Quasi-peak 200Hz  150kHz-30MHz Quasi-peak 9kHz  30MHz-1GHz Quasi-peak 120KHz  Above 1GHz Peak 1MHz  AV 1MHz  Frequency Limit (uV/m)  0.009MHz-0.490MHz 2400/F(KHz)  0.490MHz-1.705MHz 24000/F(KHz)  1.705MHz-30MHz 30  30MHz-88MHz 100  88MHz-216MHz 150  216MHz-960MHz 200  960MHz-1GHz 500  Frequency Limit (dBm/MhAbove 1GHz -27.0  For radiated emissions from 9kHz to 30	ANSI C63.10:2013			





#### For radiated emissions above 1GHz



#### Test Procedure:

- 1. The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna 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.
- 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.
- 5. 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.
- 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test



	worst ca	worst case mode is recorded in the report.						
Test Instruments:	Refer to se	Refer to section 6.0 for details						
Test mode:	Refer to se	Refer to section 5.2 for details						
Test environment:	Temp.:	Temp.: 25 °C Humid.: 52% Press.: 1012i						
Test voltage:	AC 120V, 6	AC 120V, 60Hz						
Test results:	Pass	Pass						

#### Remarks:

- 1. Only the worst case Main Antenna test data.
- 2. 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:**

#### 9 kHz ~ 30 MHz

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.

All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

#### Ant 0° value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0.0151	36.90	20.71	57.61	124.03	-66.42	AVG
0.0281	33.40	19.88	53.28	118.63	-65.35	AVG
0.0450	30.80	19.61	50.41	114.54	-64.13	AVG
0.1914	27.20	17.18	44.38	101.97	-57.59	AVG
2.2847	31.40	16.95	48.35	69.54	-21.19	QP
4.0920	22.70	15.69	38.39	69.54	-31.15	QP

#### Ant 90° value:

Frequency (MHz)	Read Level (dBuV)	Factor (dB/m)	Measurement (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
0.0150	33.60	20.72	54.32	124.08	-69.76	AVG
0.0354	27.70	19.77	47.47	116.62	-69.15	AVG
0.0554	27.20	19.42	46.62	112.73	-66.11	AVG
0.2280	25.30	17.10	42.40	100.45	-58.05	AVG
2.2486	26.90	16.97	43.87	69.54	-25.67	QP
6.5227	22.60	14.91	37.51	69.54	-32.03	QP

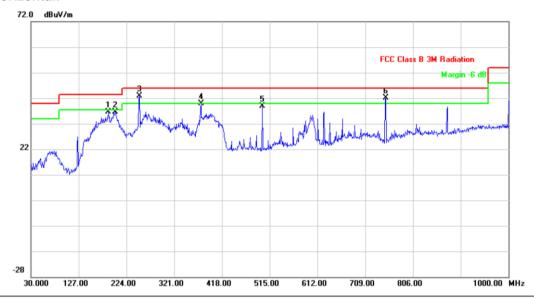


#### **Below 1GHz**

Pre-scan all test modes, found worst case at 802.11n(HT40), and so only show the test result of 802.11n(HT40)

All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.

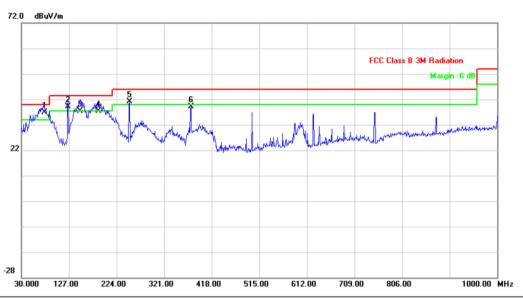
#### Horizontal:



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		187.1400	21.89	14.85	36.74	43.50	-6.76	QP	200	54	
2		200.7200	21.08	15.67	36.75	43.50	-6.75	QP	200	297	
3	*	250.0100	26.34	16.45	42.79	46.00	-3.21	QP	100	74	
4		375.3200	20.83	19.00	39.83	46.00	-6.17	QP	100	227	
5		500.4500	17.44	21.46	38.90	46.00	-7.10	QP	200	49	
6	!	750.7100	16.95	25.08	42.03	46.00	-3.97	QP	100	43	



#### 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	*	76.5600	22.19	14.73	36.92	40.00	-3.08	QP	100	327	
2	!	125.0000	24.22	14.88	39.10	43.50	-4.40	QP	100	78	
3		149.3100	22.33	15.09	37.42	43.50	-6.08	QP	100	178	
4		187.5200	21.90	15.52	37.42	43.50	-6.08	QP	100	180	
5	!	250.1900	24.77	16.45	41.22	46.00	<b>-</b> 4.78	QP	200	37	
6		375.3200	20.11	19.00	39.11	46.00	-6.89	QP	100	135	



#### Above 1GHz:

All the antennas were tested, and only show the worst case (ANT1) in this report.



5727.000

7960.000

59.59

45.09

1.69

5.60

61.28

50.69

68.20

68.20

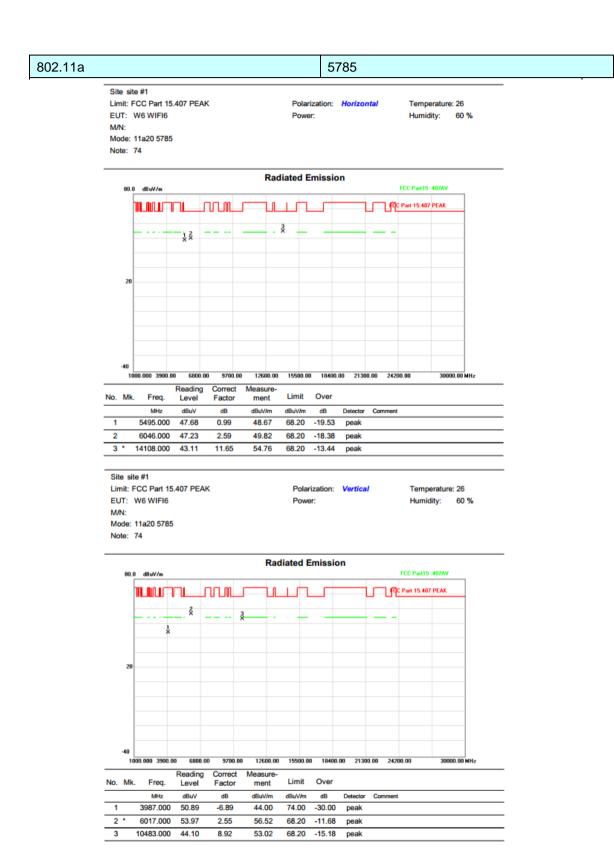
-6.92

-17.51

peak

peak







#### 802.11a 5825

Polarization: Horizontal

Temperature: 26

Temperature: 26

Humidity: 60 %

Humidity: 60 %

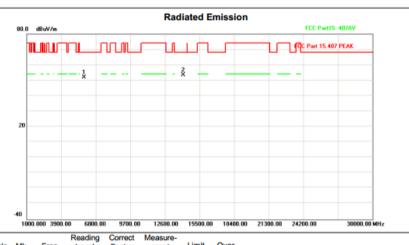
Site site #1

Limit: FCC Part 15.407 PEAK

EUT: W6 WIFI6

M/N:

Mode: 11a20 5825 Note: 74



No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		5814.000	49.93	1.96	51.89	68.20	-16.31	peak	
2	* .	14137.000	41.99	11.56	53.55	68.20	-14.65	peak	

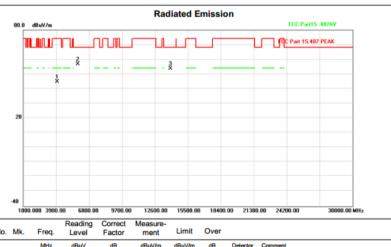
Polarization: Vertical

Site site #1

Limit: FCC Part 15.407 PEAK

EUT: W6 WIFI6 M/N:

Mode: 11a20 5825



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		3987.000	51.68	-6.89	44.79	74.00	-29.21	peak	
2	*	5814.000	54.91	1.96	56.87	68.20	-11.33	peak	
3		13963.000	41.91	11.99	53.90	68.20	-14.30	peak	



All mode (MIMO mode & SISO mode) were tested, and only show the worst case (MIMO mode) in this report.



Frea.

MHz

3987.000

7931.000 44.32

No. Mk.

2 \*

Reading

Level

dBuV

52.05

Correct

Factor

dB

-6.89

5.55

Measure-

dBuV/m

45.16

49.87

Limit

dBuV/m

74.00

68.20

Over

dB

-28.84

-18.33

Detector Comment

peak

peak



#### 802.11axHT20 5785 Site site #1 Limit: FCC Part 15.407 PEAK Polarization: Horizontal Temperature: 26 EUT: W6 WIFI6 Humidity: 60 % Mode: 11ax HT20 5785 Note: 70 Radiated Emission FCC Part15 .407AV 1000.000 3900.00 6800.00 9700.00 12600.00 15500.00 18400.00 21300.00 24200.00 Reading Correct Measure No. Mk. Freq. Over Level Factor ment MHz dB Detector Comment 5988.000 46.50 2.48 48.98 -19.22 68.20 peak 7931.000 45.12 5.55 50.67 68.20 -17.53 Site site #1 Limit: FCC Part 15.407 PEAK Polarization: Vertical EUT: W6 WIFI6 Humidity: 60 % Power: M/N: Mode: 11ax HT20 5785 Note: 70 Radiated Emission

	-40 10	00.000 3900.	00 6800.00	9700.00	12600.00	15500.00	18400.0	00 2130	0.00 24200.00	30000.00 MHz
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		3987.000	52.10	-6.89	45.21	74.00	-28.79	peak		
2	*	6017.000	52.50	2.55	55.05	68.20	-13.15	peak		



#### 802.11axHT20 5825 Site site #1

Polarization: Horizontal

Temperature: 26

Temperature: 26

Humidity: 60 %

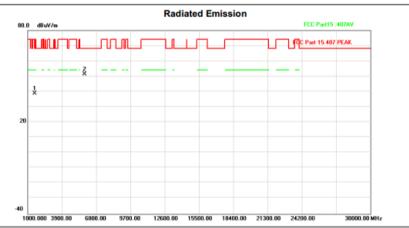
Humidity:

Limit: FCC Part 15.407 PEAK EUT: W6 WIFI6

M/N:

Mode: 11ax HT20 5825

Note: 70



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		1609.000	49.61	-10.75	38.86	74.00	-35.14	peak	
2	*	5814.000	49.31	1.96	51.27	68.20	-16.93	peak	

Power:

Polarization: Vertical

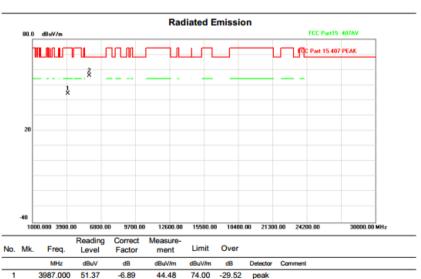
Site site #1

Limit: FCC Part 15.407 PEAK EUT: W6 WIFI6

M/N:

Mode: 11ax HT20 5825

Note: 70



-12.07

peak

Global United Technology Services Co., Ltd.

5814.000

No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



#### 802.11axHT40 5755 Site site #1 Limit: FCC Part 15.407 PEAK Polarization: Horizontal Temperature: 26 EUT: W6 WIFI6 Humidity: 60 % M/N: Mode: 11ax HT40 5755 Note: 72 Radiated Emission 80.0 dBuV/m FCC Part15 .407AV 1 12600.00 15500.00 18400.00 21300.00 24200.00 9700.00 Reading Freq. Level Factor ment 1609.000 49.19 74.00 -35.56 peak 2 \* 6017.000 46.72 2.55 49.27 68.20 -18.93 Site site #1 Limit: FCC Part 15.407 PEAK Polarization: Vertical Temperature: 26 EUT: W6 WIFI6 Power: Humidity: 60 % M/N: Mode: 11ax HT40 5755 Note: 72 Radiated Emission 80.0 dBuV/m .nnııı 18400.00 21300.00 24200.00 30000.00 MHz 6800.00 9700.00 12600.00 15500.00 Reading Correct Measure-

Freq.

3987.000

5495.000

Level

51.87

Factor

-6.89

Mk.

ment

44.98

74.00

68.20

-29.02

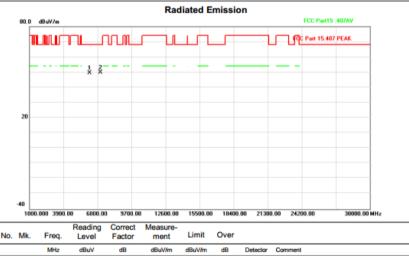
-12.46

Detector Comment

peak



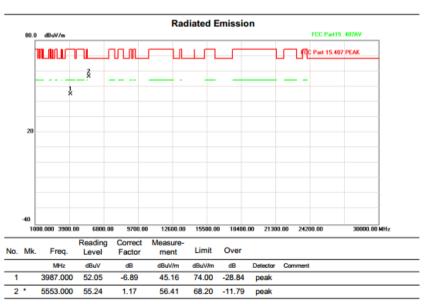
#### 802.11ax HT40 5795 Site site #1 Limit: FCC Part 15.407 PEAK Polarization: Horizontal Temperature: 26 EUT: W6 WIFI6 Humidity: 60 % Power: M/N· Mode: 11ax HT40 5795 Note: 72



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		6133.000	46.88	2.72	49.60	68.20	-18.60	peak	
2	*	7061.000	45.61	4.14	49.75	68.20	-18.45	peak	

Site site #1 Limit: FCC Part 15.407 PEAK Polarization: Vertical Temperature: 26 EUT: W6 WIFI6 Humidity: 60 %

Mode: 11ax HT40 5795









- 1. Measure Level = Reading Level + Factor.
- 2. The test trace is same as the ambient noise (the test frequency range: 18GHz~40GHz), therefore no data appear in the report.
- 3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.



## 7.8 Frequency stability

Test Requirement:	FCC Part15 C Section 15.407(g)				
Test Method:	ANSI C63.10:2013, FCC Part 2.1055				
Limit:	Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified				
Test Procedure:	The EUT was setup to ANSI C63.4, 2003; tested to 2.1055 for compliance to FCC Part 15.407(g) requirements.				
Test setup:	Spectrum analyzer  EUT  Variable Power Supply  Note: Measurement setup for testing on Antenna connector				
Test Instruments:	Refer to section 5.10 for details				
Test mode:	Refer to section 5.2 for details				
Test results:	Pass				



#### Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)
(V)	5745.0000
138	5744.9635
120	5744.9716
102	5744.9843
Max. Deviation (MHz)	0.0365
Max. Deviation (ppm)	6.35

#### Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)
(℃)	5745.0000
-5	5744.9761
5	5744.9813
15	5744.9816
25	5744.9913
35	5744.9728
45	5744.9831
Max. Deviation (MHz)	0.0272
Max. Deviation (ppm)	4.73



# 8 Test Setup Photo

Reference to the appendix I for details.

### 9 EUT Constructional Details

Reference to the appendix II for details.

-----END-----