6. UNWANTED EMISSIONS AND BAND EDGE

6.1. Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: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 band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

13.207 Radiated emission mints						
Frequency (MHz)	Field Strength(μV/m)	Distance(m)				
0.009-0.490	2400/F(kHz)	300				
0.490-1.705	24000/F(kHz)	30				
1.705-30	30	30				
30-88	100	3				
88-216	150	3				
216-960	200	3				
Above 960	500	3				

15 209 Radiated emission limits

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

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Note:

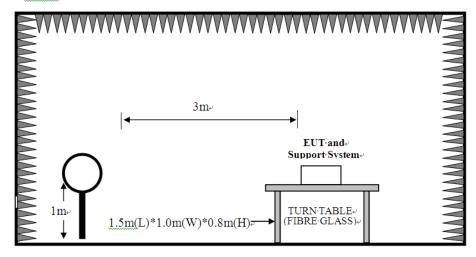
- 1. $dB\mu V/m=20Log(\mu V/m)$
- 2. Above 1GHz the formula is used to convert the EIRP to field strength $E[dB\mu V/m] = EIRP[dBm] 20 \log (d[m]) + 104.77$,

where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.

for example,3m field strength(dBµV/m)=EIRP-20log(3)+104.77=EIRP+95.2

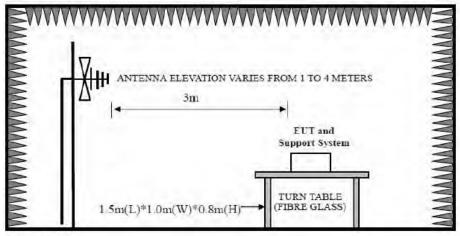
6.2. Test Setup

9kHz~30MHz

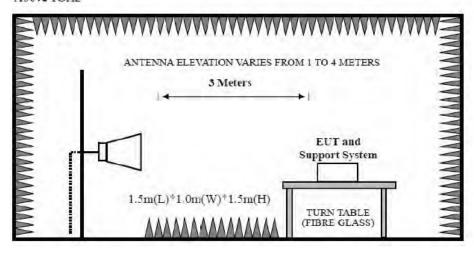




30~1000MHz



Above 1GHz



6.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting			
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)			
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)			
Start frequency	9KHz			
Stop frequency	150KHz			
Sweep Time	Auto			
Detector	PEAK/QP/AVG			
Trace Mode	Max Hold			

Note: For 9KHz-90KHz&110KHz-150KHz, the detector is average, other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting			
RBW	9KHz			
VBW	9KHz			
Start frequency	150KHz			
Stop frequency	30MHz			
Sweep Time	Auto			
Detector	QP			
Trace Mode	Max Hold			

Note: For 150KHz-490KHz, the detector is average, other frequency is CISPR QP detector.



For 30MHz-1GHz

Spectrum Parameters	Setting			
RBW	120KHz			
VBW	300KHz			
Start frequency	30MHz			
Stop frequency	1GHz			
Sweep Time	Auto			
Detector	QP			
Trace Mode	Max Hold			

For Above 1GHz

Spectrum Parameters	Setting				
RBW		1MHz			
	PEAK Measurement	AVG Measurement			
		Duty cycle≥98%,VBW=10Hz			
VBW	3MHz	Duty cycle < 98%, VBW ≥ 1/T			
	SWILIZ	Video bandwidth mode=RMS			
		(power averaging)			
Start frequency		1GHz			
Stop frequency	2	25GHz			
Sweep Time	Auto				
Detector	PEAK				
Trace Mode	M	ax Hold			

Note: T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 2.7 for the on-time time.

6.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 6.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

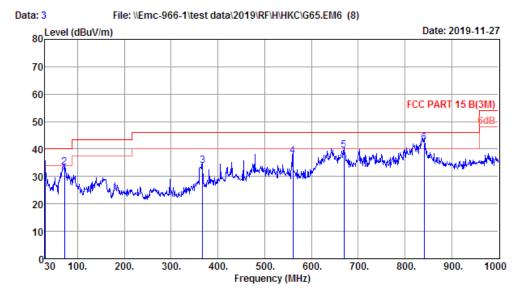


6.5. Test Result

Radiated Emissions Below 1GHz

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Site no. : 1# 966 chamber Data no. : 3
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:25.1'; Humi:56.8%; Press:101.52kPa

Engineer : Frank
EUT : LED TV
Power : AC 120V/60Hz

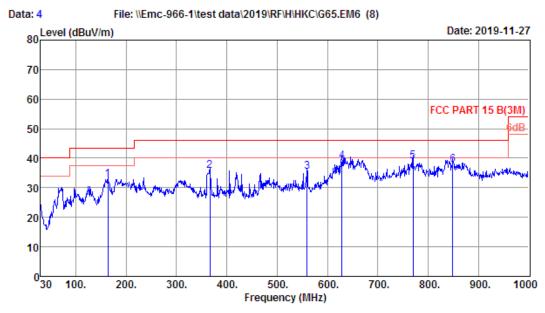
M/N : G65 Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
	30.00	18.40	0.14	13.60	32.14	40.00	7.86	QP
	71.71	6.58	0.57	26.30	33.45	40.00	6.55	QP
3	67.56	15.35	2.15	16.46	33.96	46.00	12.04	QP
5	60.59	19.81	2.87	14.95	37.63	46.00	8.37	QP
6	69.23	21.69	3.23	14.77	39.69	46.00	6.31	QP
8	40.92	23.46	3.71	14.93	42.10	46.00	3.90	QP

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 chamber Data no. : 4

Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:25.1'; Humi:56.8%; Press:101.52kPa

Engineer : Frank
EUT : LED TV
Power : AC 120V/60Hz
M/N : G65
Test Mode : TX Mode

Fre (MH	-	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
163.86	10.66	1.16	20.91	32.73	43.50	10.77	QP
366.59	15.33	2.15	18.12	35.60	46.00	10.40	QP
559.62	19.80	2.87	12.73	35.40	46.00	10.60	QP
628.49	20.96	3.11	14.91	38.98	46.00	7.02	QP
770.11	22.50	3.54	12.92	38.96	46.00	7.04	QP
848.68	23.14	3.72	10.91	37.77	46.00	8.23	QP

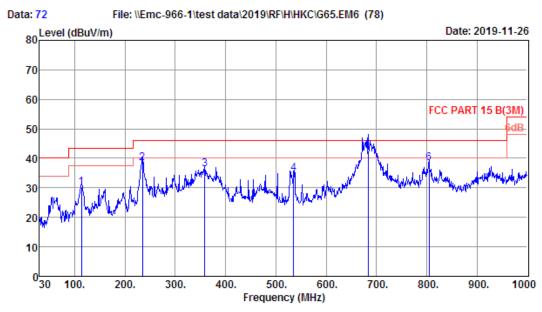
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 72
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:25.3'; Humi:42%; Press:101.6kPa

Engineer : Zzb

EUT : LED TV

Power : AC 120V/60Hz

M/N : A550CV-UMC

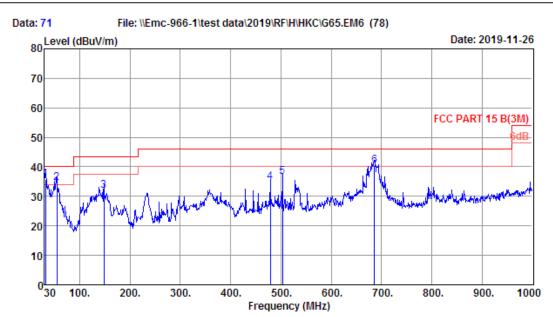
Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	113.42	11.00	0.94	18.25	30.19	43.50	13.31	QP
2	234.67	10.90	1.56	25.92	38.38	46.00	7.62	QP
3	358.83	15.22	2.16	19.00	36.38	46.00	9.62	QP
5	35.37	18.96	2.80	13.10	34.86	46.00	11.14	QP
6	583.78	21.66	3.20	17.60	42.46	46.00	3.54	QP
8	305.03	23.05	3.62	11.68	38.35	46.00	7.65	QP

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 71
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:25.3'; Humi:42%; Press:101.6kPa

Engineer : Zzb
EUT : LED TV
Power : AC 120V/60Hz
M/N : A550CV-UMC
Test Mode : TX Mode

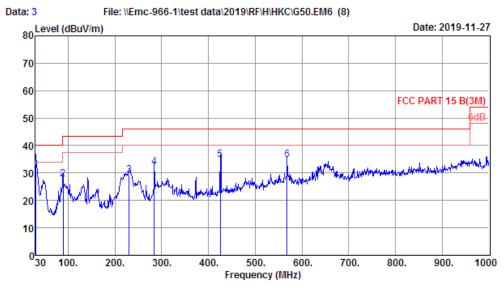
	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
	31.94	16.80	0.15	18.90	35.85	40.00	4.15	QP
	54.25	6.60	0.34	27.55	34.49	40.00	5.51	QP
:	148.34	11.64	1.08	19.15	31.87	43.50	11.63	QP
	479.11	17.88	2.63	14.23	34.74	46.00	11.26	QP
	503.36	18.36	2.68	15.60	36.64	46.00	9.36	QP
	685.72	21.64	3.20	15.50	40.34	46.00	5.66	QP

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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: 1# 966 chamber Site no. Data no. : 3 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL

Limit

: FCC PART 15 B(3M) : Temp:25.1'; Humi:56.8%; Press:101.52kPa Env. / Ins.

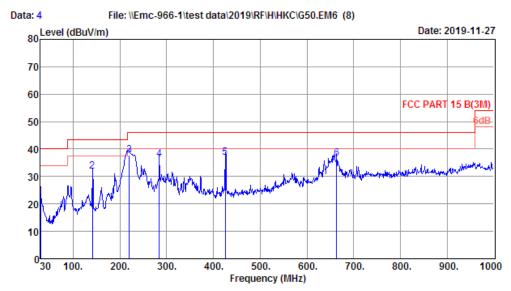
Engineer : Frank EUT : LED TV : AC 120V/60Hz Power M/N : G50 Test Mode : TX Mode

Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
30.00	18.40	0.14	14.92	33.46	40.00	6.54	QP
89.17	9.10	0.79	17.92	27.81	43.50	15.69	QP
230.79	10.42	1.52	17.21	29.15	46.00	16.85	QP
284.14	13.04	1.79	17.22	32.05	46.00	13.95	QP
425.76	16.82	2.30	15.86	34.98	46.00	11.02	QP
568.35	19.88	2.87	12.05	34.80	46.00	11.20	QP

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 chamber Data no. : 4
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B(3M)

Limit : FCC PART 15 B(3M)
Env. / Ins. : Temp:25.1'; Humi:56.8%; Press:101.52kPa

Engineer : Frank

EUT : LED TV
Power : AC 120V/60Hz
M/N : G50
Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	0.00	18.40	0.14	4.08	22.62	40.00	17.38	QP
14	1.55	12.23	1.05	18.53	31.81	43.50	11.69	QP
22	0.12	9.60	1.43	26.86	37.89	46.00	8.11	QP
28	4.14	13.04	1.79	21.34	36.17	46.00	9.83	QP
42	5.76	16.82	2.30	17.79	36.91	46.00	9.09	QP
66	3.41	21.64	3.23	11.63	36.50	46.00	9.50	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.

Note:

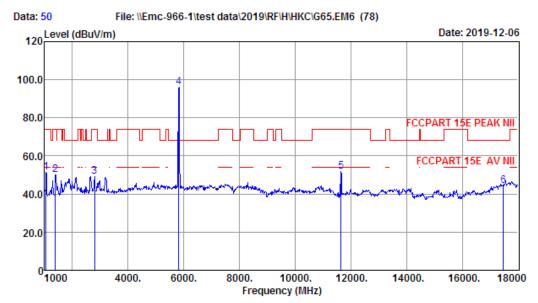
- 1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
- 2. All channels had been pre-test, only the worst case was reported.



Radiated Emissions Above 1G

EST Technology

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Site no. : 1# 966 Chamber Data no. : 50
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.00	24.42	1.06	34.61	60.36	51.23	68.20	16.97	Peak
2	1391.00	24.52	1.12	34.68	59.00	49.96	74.00	24.04	Peak
3	2802.00	28.12	1.91	34.48	53.76	49.31	74.00	24.69	Peak
4	5825.00	32.83	4.11	34.37	93.72	96.29	68.20	-28.09	Peak
5	11650.00	39.90	6.08	34.69	40.72	52.01	74.00	21.99	Peak
6	17475.00	44.70	7.89	34.35	25.86	44.10	68.20	24.10	Peak

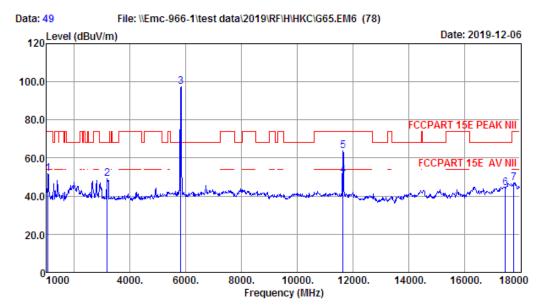
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data no. : 49 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

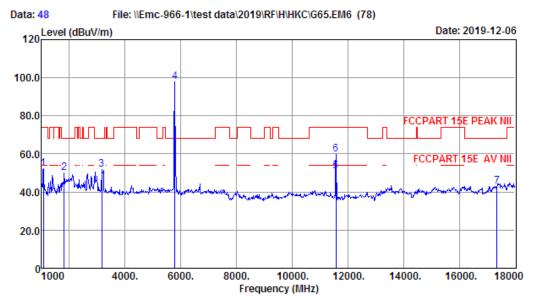
Test Mode : IEEE 802.11n HT20 TX 5825MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.00	24.42	1.06	34.61	60.81	51.68	68.20	16.52	Peak
2	3176.00	28.70	2.43	34.42	52.31	49.02	68.20	19.18	Peak
3	5825.00	32.83	4.11	34.37	95.04	97.61	68.20	-29.41	Peak
4	11650.00	39.90	6.08	34.69	39.46	50.75	54.00	3.25	Average
5	11650.00	39.90	6.08	34.69	52.46	63.75	74.00	10.25	Peak
6	17475.00	44.70	7.89	34.35	25.86	44.10	68.20	24.10	Peak
7	17779.00	47.14	8.10	34.32	26.20	47.12	74.00	26.88	Peak
	3 4 5	(MHz) 1 1051.00 2 3176.00 3 5825.00 4 11650.00 5 11650.00 6 17475.00	Freq. Factor (MHz) (dB/m) 1 1051.00 24.42 2 3176.00 28.70 3 5825.00 32.83 4 11650.00 39.90 5 11650.00 39.90 6 17475.00 44.70	Freq. Factor Loss (MHz) (dB/m) (dB) 1 1051.00 24.42 1.06 2 3176.00 28.70 2.43 3 5825.00 32.83 4.11 4 11650.00 39.90 6.08 5 11650.00 39.90 6.08 6 17475.00 44.70 7.89	Freq. (MHz) Factor Loss Factor (dB) 1 1051.00 24.42 1.06 34.61 2 3176.00 28.70 2.43 34.42 3 5825.00 32.83 4.11 34.37 4 11650.00 39.90 6.08 34.69 5 11650.00 39.90 6.08 34.69 6 17475.00 44.70 7.89 34.35	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 1 1051.00 24.42 1.06 34.61 60.81 2 3176.00 28.70 2.43 34.42 52.31 3 5825.00 32.83 4.11 34.37 95.04 4 11650.00 39.90 6.08 34.69 39.46 5 11650.00 39.90 6.08 34.69 52.46 6 17475.00 44.70 7.89 34.35 25.86	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 1 1051.00 24.42 1.06 34.61 60.81 51.68 2 3176.00 28.70 2.43 34.42 52.31 49.02 3 5825.00 32.83 4.11 34.37 95.04 97.61 4 11650.00 39.90 6.08 34.69 39.46 50.75 5 11650.00 39.90 6.08 34.69 52.46 63.75 6 17475.00 44.70 7.89 34.35 25.86 44.10	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 1 1051.00 24.42 1.06 34.61 60.81 51.68 68.20 2 3176.00 28.70 2.43 34.42 52.31 49.02 68.20 3 5825.00 32.83 4.11 34.37 95.04 97.61 68.20 4 11650.00 39.90 6.08 34.69 39.46 50.75 54.00 5 11650.00 39.90 6.08 34.69 52.46 63.75 74.00 6 17475.00 44.70 7.89 34.35 25.86 44.10 68.20	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 1 1051.00 24.42 1.06 34.61 60.81 51.68 68.20 16.52 3176.00 28.70 2.43 34.42 52.31 49.02 68.20 19.18 5825.00 32.83 4.11 34.37 95.04 97.61 68.20 -29.41 4 11650.00 39.90 6.08 34.69 39.46 50.75 54.00 3.25 5 11650.00 39.90 6.08 34.69 52.46 63.75 74.00 10.25 6 17475.00 44.70 7.89 34.35 25.86 44.10 68.20 24.10

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 48 Site no. : 1# 966 Chamber

: 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

: FCCPART 15E PEAK NII Limit

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

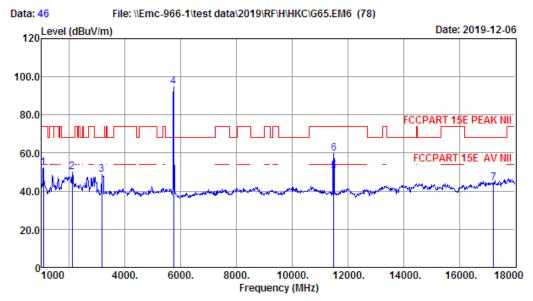
Test Mode : IEEE 802.11n HT20 TX 5785MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	61.54	52.46	68.20	15.74	Peak
2	1816.00	25.88	1.24	34.76	57.85	50.21	68.20	17.99	Peak
3	3159.00	28.69	2.41	34.42	55.04	51.72	68.20	16.48	Peak
4	5785.00	32.84	4.05	34.39	95.16	97.66	68.20	-29.46	Peak
5	11570.00	39.90	6.12	34.67	39.41	50.76	54.00	3.24	Average
6	11570.00	39.90	6.12	34.67	48.41	59.76	74.00	14.24	Peak
7	17355.00	43.75	7.77	34.36	25.69	42.85	68.20	25.35	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 46 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

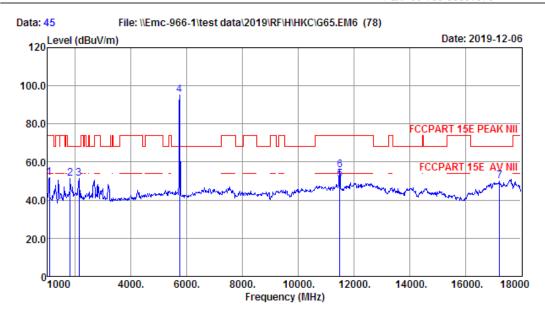
Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	61.31	52.23	68.20	15.97	Peak
2	2105.00	26.84	1.33	34.76	56.79	50.20	68.20	18.00	Peak
3	3159.00	28.69	2.41	34.42	51.86	48.54	68.20	19.66	Peak
4	5745.00	32.85	4.00	34.40	92.39	94.84	68.20	-26.64	Peak
5	11490.00	39.90	6.15	34.65	39.16	50.56	54.00	3.44	Average
6	11490.00	39.90	6.15	34.65	48.16	59.56	74.00	14.44	Peak
7	17235.00	42.80	7.65	34.38	28.13	44.20	68.20	24.00	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 45 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

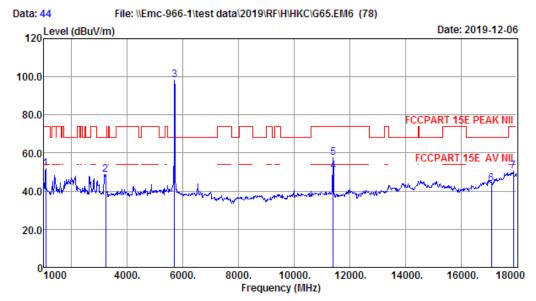
Test Mode : IEEE 802.11n HT20 TX 5745MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	60.77	51.69	68.20	16.51	Peak
2	1816.00	25.88	1.24	34.76	58.88	51.24	68.20	16.96	Peak
3	2122.00	26.87	1.34	34.75	57.69	51.15	68.20	17.05	Peak
4	5745.00	32.85	4.00	34.40	92.87	95.32	68.20	-27.12	Peak
5	11490.00	39.90	6.15	34.65	39.55	50.95	54.00	3.05	Average
6	11490.00	39.90	6.15	34.65	44.55	55.95	74.00	18.05	Peak
7	17235.00	42.80	7.65	34.38	34.05	50.12	68.20	18.08	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 44 : 1# 966 Chamber Site no.

: 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

: Seven Engineer EUT : LED TV : AC 120V/60Hz Power

M/N : G65

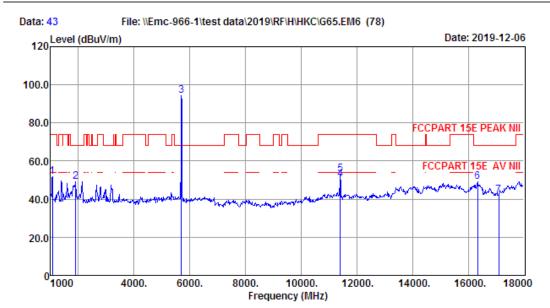
Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	60.83	51.75	68.20	16.45	Peak
2	3227.00	28.73	2.50	34.42	51.90	48.71	68.20	19.49	Peak
3	5700.00	32.86	3.94	34.42	95.71	98.09	68.20	-29.89	Peak
4	11400.00	39.90	6.14	34.62	39.11	50.53	54.00	3.47	Average
5	11400.00	39.90	6.14	34.62	46.11	57.53	74.00	16.47	Peak
6	17100.00	41.71	7.52	34.39	29.03	43.87	68.20	24.33	Peak
7	17881.00	47.95	8.16	34.31	28.64	50.44	74.00	23.56	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 43 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

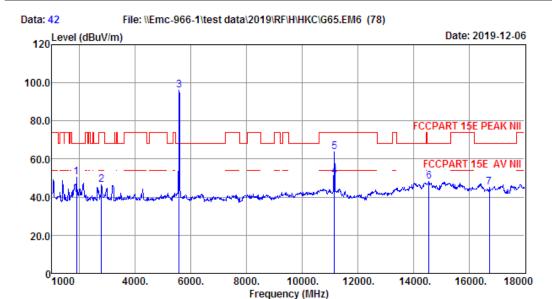
Test Mode : IEEE 802.11n HT20 TX 5700MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	60.88	51.80	68.20	16.40	Peak
2	1901.00	26.25	1.26	34.78	56.59	49.32	68.20	18.88	Peak
3	5700.00	32.86	3.94	34.42	91.95	94.33	68.20	-26.13	Peak
4	11400.00	39.90	6.14	34.62	38.88	50.30	54.00	3.70	Average
5	11400.00	39.90	6.14	34.62	41.88	53.30	74.00	20.70	Peak
6	16334.00	40.17	7.05	34.27	36.17	49.12	68.20	19.08	Peak
7	17100.00	41.71	7.52	34.39	27.26	42.10	68.20	26.10	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 42 : 1# 966 Chamber Site no. Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

: FCCPART 15E PEAK NII Limit

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

: Seven Engineer EUT : LED TV : AC 120V/60Hz Power

M/N : G65

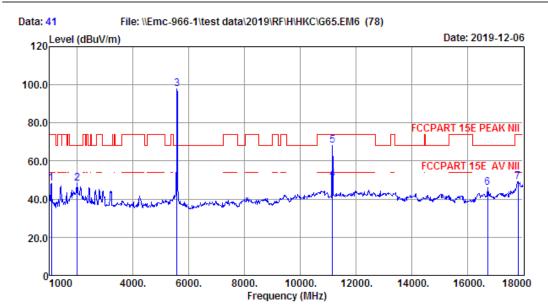
Test Mode : IEEE 802.11n HT20 TX 5580MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1884.00	26.17	1.25	34.78	57.70	50.34	68.20	17.86	Peak
2	2785.00	28.08	1.89	34.49	50.82	46.30	74.00	27.70	Peak
3	5580.00	32.89	3.79	34.47	94.05	96.26	68.20	-28.06	Peak
4	11160.00	39.90	6.12	34.55	39.45	50.92	54.00	3.08	Average
5	11160.00	39.90	6.12	34.55	52.45	63.92	74.00	10.08	Peak
6	14566.00	40.99	6.89	34.47	34.89	48.30	68.20	19.90	Peak
7	16740.00	40.62	7.26	34.35	31.43	44.96	68.20	23.24	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 41 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

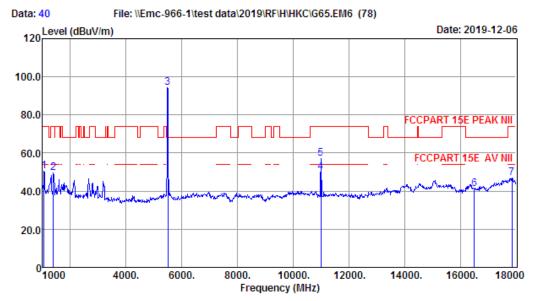
Test Mode : IEEE 802.11n HT20 TX 5580MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	57.49	48.41	68.20	19.79	Peak
2	1986.00	26.62	1.28	34.80	55.33	48.43	68.20	19.77	Peak
3	5580.00	32.89	3.79	34.47	95.75	97.96	68.20	-29.76	Peak
4	11160.00	39.90	6.12	34.55	38.87	50.34	54.00	3.66	Average
5	11160.00	39.90	6.12	34.55	56.87	68.34	74.00	5.66	Peak
6	16740.00	40.62	7.26	34.35	32.40	45.93	68.20	22.27	Peak
7	17830.00	47.54	8.13	34.32	27.73	49.08	74.00	24.92	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 40 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

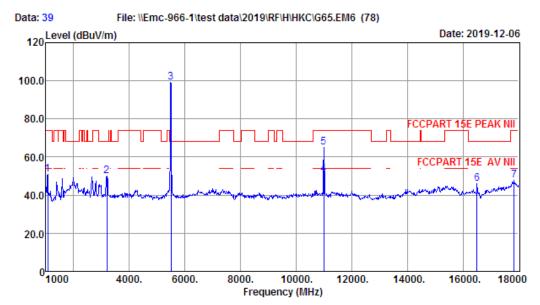
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.00	24.42	1.06	34.61	59.70	50.57	68.20	17.63	Peak
2	1391.00	24.52	1.12	34.68	58.74	49.70	74.00	24.30	Peak
3	5500.00	32.90	3.71	34.50	92.12	94.23	68.20	-26.03	Peak
4	11000.00	39.90	6.11	34.50	38.66	50.17	54.00	3.83	Average
5	11000.00	39.90	6.11	34.50	45.66	57.17	74.00	16.83	Peak
6	16500.00	40.36	7.12	34.30	27.87	41.05	68.20	27.15	Peak
7	17864.00	47.82	8.15	34.31	25.13	46.79	74.00	27.21	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 39 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

: Seven Engineer EUT : LED TV : AC 120V/60Hz Power

M/N : G65

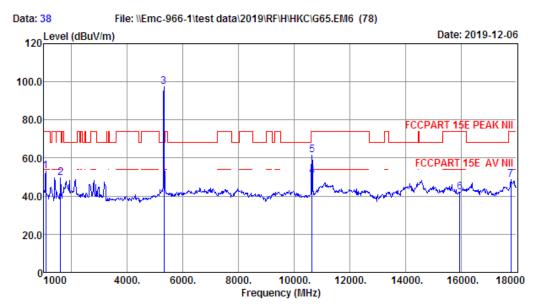
Test Mode : IEEE 802.11n HT20 TX 5500MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	59.95	50.87	68.20	17.33	Peak
2	3193.00	28.71	2.46	34.42	53.21	49.96	68.20	18.24	Peak
3	5500.00	32.90	3.71	34.50	97.24	99.35	68.20	-31.15	Peak
4	11000.00	39.90	6.11	34.50	39.42	50.93	54.00	3.07	Average
5	11000.00	39.90	6.11	34.50	53.42	64.93	74.00	9.07	Peak
6	16500.00	40.36	7.12	34.30	33.09	46.27	68.20	21.93	Peak
7	17847.00	47.68	8.14	34.32	26.42	47.92	74.00	26.08	Peak

- - 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 38 : 1# 966 Chamber Site no. Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

: FCCPART 15E PEAK NII Limit

: Temp:27.3'; Humi:54%; Press:101.52kPa Env. / Ins.

: Seven Engineer EUT : LED TV : AC 120V/60Hz Power

M/N : G65

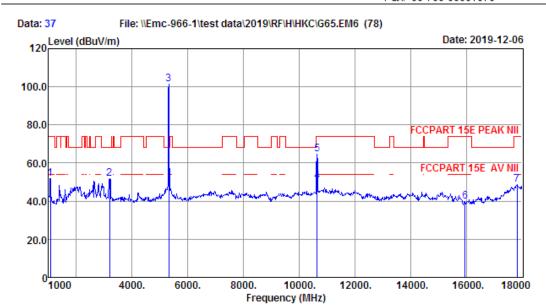
Test Mode : IEEE 802.11n HT20 TX 5320MHz

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1068.00	24.47	1.06	34.61	62.04	52.96	68.20	15.24	Peak
1595.00	25.20	1.17	34.72	58.16	49.81	74.00	24.19	Peak
5320.00	32.50	3.60	34.57	95.86	97.39	68.20	-29.19	Peak
10640.00	39.54	6.04	34.39	39.33	50.52	54.00	3.48	Average
10640.00	39.54	6.04	34.39	50.33	61.52	74.00	12.48	Peak
15960.00	39.84	6.88	34.21	29.42	41.93	74.00	32.07	Peak
17796.00	47.27	8.11	34.32	27.80	48.86	74.00	25.14	Peak
	(MHz) 1068.00 1595.00 5320.00 10640.00 15960.00	Freq. Factor (MHz) (dB/m) 1068.00 24.47 1595.00 25.20 5320.00 32.50 10640.00 39.54 10640.00 39.84	Freq. Factor Loss (MHz) (dB/m) (dB) 	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 1068.00 24.47 1.06 34.61 1595.00 25.20 1.17 34.72 5320.00 32.50 3.60 34.57 10640.00 39.54 6.04 34.39 15960.00 39.84 6.88 34.21	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 1068.00 24.47 1.06 34.61 62.04 1595.00 25.20 1.17 34.72 58.16 5320.00 32.50 3.60 34.57 95.86 10640.00 39.54 6.04 34.39 39.33 10640.00 39.54 6.04 34.39 50.33 15960.00 39.84 6.88 34.21 29.42	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 1068.00 24.47 1.06 34.61 62.04 52.96 1595.00 25.20 1.17 34.72 58.16 49.81 5320.00 32.50 3.60 34.57 95.86 97.39 10640.00 39.54 6.04 34.39 39.33 50.52 10640.00 39.54 6.04 34.39 50.33 61.52 15960.00 39.84 6.88 34.21 29.42 41.93	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 1068.00 24.47 1.06 34.61 62.04 52.96 68.20 1595.00 25.20 1.17 34.72 58.16 49.81 74.00 5320.00 32.50 3.60 34.57 95.86 97.39 68.20 10640.00 39.54 6.04 34.39 39.33 50.52 54.00 10640.00 39.54 6.04 34.39 50.33 61.52 74.00 15960.00 39.84 6.88 34.21 29.42 41.93 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 1068.00 24.47 1.06 34.61 62.04 52.96 68.20 15.24 1595.00 25.20 1.17 34.72 58.16 49.81 74.00 24.19 5320.00 32.50 3.60 34.57 95.86 97.39 68.20 -29.19 10640.00 39.54 6.04 34.39 39.33 50.52 54.00 3.48 10640.00 39.54 6.04 34.39 50.33 61.52 74.00 12.48 15960.00 39.84 6.88 34.21 29.42 41.93 74.00 32.07

- 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 37 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

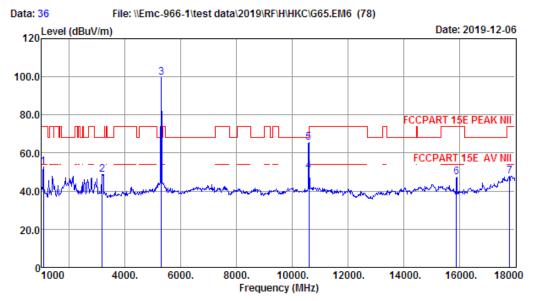
Test Mode : IEEE 802.11n HT20 TX 5320MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	60.85	51.77	68.20	16.43	Peak
2	3193.00	28.71	2.46	34.42	55.04	51.79	68.20	16.41	Peak
3	5320.00	32.50	3.60	34.57	99.68	101.21	68.20	-33.01	Peak
4	10640.00	39.54	6.04	34.39	39.45	50.64	54.00	3.36	Average
5	10640.00	39.54	6.04	34.39	53.46	64.65	74.00	9.35	Peak
6	15960.00	39.84	6.88	34.21	27.47	39.98	74.00	34.02	Peak
7	17830.00	47.54	8.13	34.32	27.50	48.85	74.00	25.15	Peak

- - 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 36 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

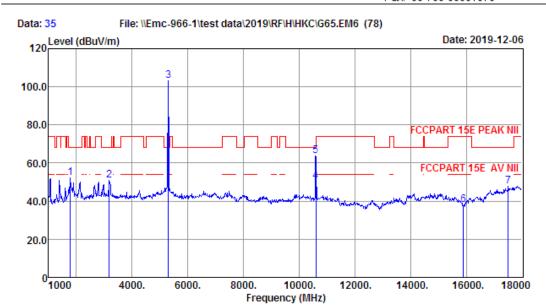
Test Mode : IEEE 802.11n HT20 TX 5300MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	61.77	52.69	68.20	15.51	Peak
2	3176.00	28.70	2.43	34.42	52.00	48.71	68.20	19.49	Peak
3	5300.00	32.46	3.59	34.58	97.97	99.44	68.20	-31.24	Peak
4	10600.00	39.51	6.04	34.38	39.21	50.38	54.00	3.62	Average
5	10600.00	39.51	6.04	34.38	54.22	65.39	68.20	2.81	Peak
6	15900.00	39.91	6.81	34.24	34.75	47.23	74.00	26.77	Peak
7	17813.00	47.41	8.12	34.32	26.79	48.00	74.00	26.00	Peak

- - 3. The emission levels that are 20dB below the official limit are not reported.



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Data no. : 35 : 1# 966 Chamber Site no. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL Dis. / Ant.

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

M/N : G65

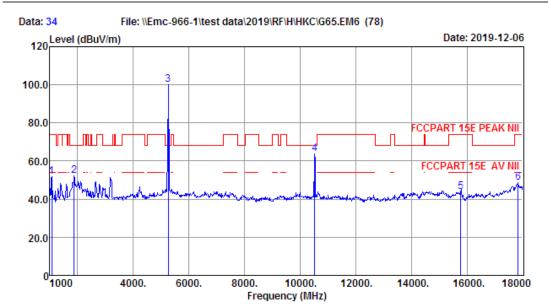
Test Mode : IEEE 802.11n HT20 TX 5300MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1782.00	25.75	1.23	34.76	60.01	52.23	68.20	15.97	Peak
2	3176.00	28.70	2.43	34.42	54.09	50.80	68.20	17.40	Peak
3	5300.00	32.46	3.59	34.58	101.61	103.08	68.20	-34.88	Peak
4	10600.00	39.51	6.04	34.38	39.38	50.55	54.00	3.45	Average
5	10600.00	39.51	6.04	34.38	52.38	63.55	68.20	4.65	Peak
6	15900.00	39.91	6.81	34.24	25.57	38.05	74.00	35.95	Peak
7	17507.00	44.97	7.92	34.35	29.25	47.79	68.20	20.41	Peak

- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 34
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

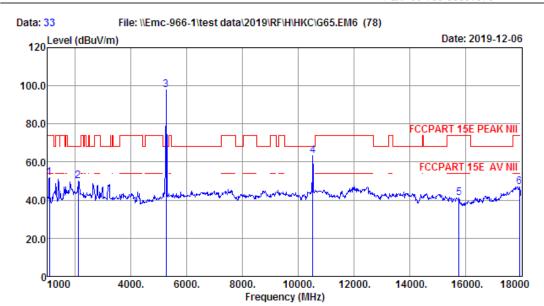
Test Mode : IEEE 802.11n HT20 TX 5260MHz

	Freq.	Ant.	Cable	Amp		Emission			
		Factor (dB/m)	Loss (dB)		Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	60.78	51.70	68.20	16.50	Peak
2	1867.00	26.10	1.25	34.77	59.73	52.31	68.20	15.89	Peak
3	5260.00	32.39	3.57	34.59	98.92	100.29	68.20	-32.09	Peak
4	10520.00	39.43	6.02	34.36	52.71	63.80	68.20	4.40	Peak
5	15780.00	40.05	6.69	34.29	31.20	43.65	74.00	30.35	Peak
6	17847.00	47.68	8.14	34.32	27.01	48.51	74.00	25.49	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 33
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

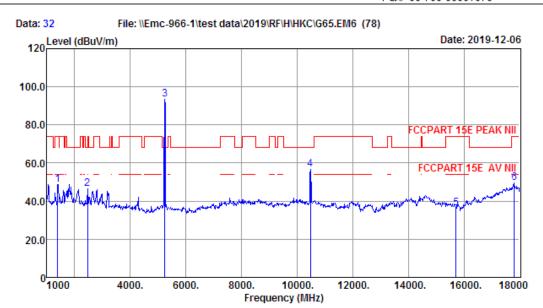
Test Mode : IEEE 802.11n HT20 TX 5260MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	60.90	51.82	68.20	16.38	Peak
2	2105.00	26.84	1.33	34.76	56.64	50.05	68.20	18.15	Peak
3	5260.00	32.39	3.57	34.59	96.46	97.83	68.20	-29.63	Peak
4	10520.00	39.43	6.02	34.36	52.41	63.50	68.20	4.70	Peak
5	15780.00	40.05	6.69	34.29	28.75	41.20	74.00	32.80	Peak
6	17949.00	48.49	8.21	34.31	24.56	46.95	74.00	27.05	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 32
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

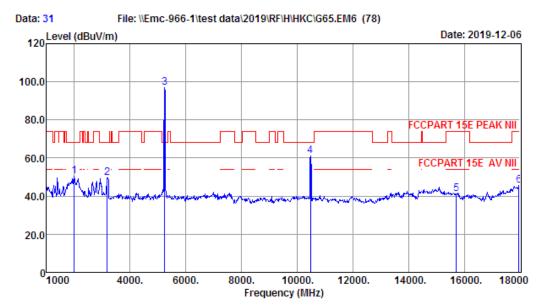
Test Mode : IEEE 802.11n HT20 TX 5240MHz

		Ant.	Cable	Amp		Emission				
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1	1391.00	24.52	1.12	34.68	57.88	48.84	74.00	25.16	Peak	
2	2462.00	27.35	1.48	34.62	52.16	46.37	68.20	21.83	Peak	
3	5240.00	32.31	3.55	34.61	92.05	93.30	68.20	-25.10	Peak	
4	10480.00	39.39	6.02	34.35	45.83	56.89	68.20	11.31	Peak	
5	15720.00	40.10	6.65	34.31	23.72	36.16	74.00	37.84	Peak	
6	17813.00	47.41	8.12	34.32	28.26	49.47	74.00	24.53	Peak	

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 31
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

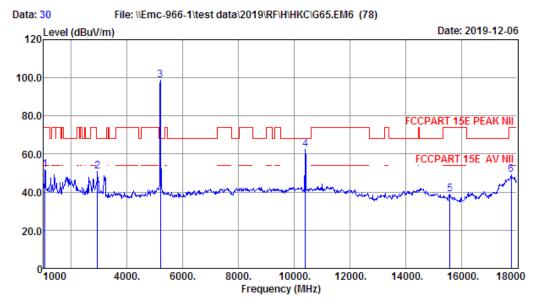
Test Mode : IEEE 802.11n HT20 TX 5240MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1986.00	26.62	1.28	34.80	57.52	50.62	68.20	17.58	Peak
2	3176.00	28.70	2.43	34.42	52.80	49.51	68.20	18.69	Peak
3	5240.00	32.31	3.55	34.61	95.75	97.00	68.20	-28.80	Peak
4	10480.00	39.39	6.02	34.35	50.00	61.06	68.20	7.14	Peak
5	15720.00	40.10	6.65	34.31	28.95	41.39	74.00	32.61	Peak
6	17966.00	48.63	8.22	34.30	22.99	45.54	74.00	28.46	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 30
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

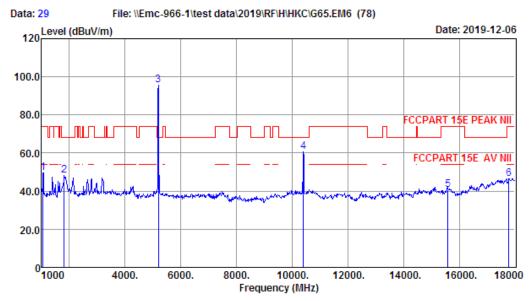
Test Mode : IEEE 802.11n HT20 TX 5200MHz

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.00	24.42	1.06	34.61	61.08	51.95	68.20	16.25	Peak
2	2938.00	28.44	2.10	34.43	54.77	50.88	68.20	17.32	Peak
3	5200.00	32.24	3.53	34.62	97.39	98.54	68.20	-30.34	Peak
4	10400.00	39.31	5.99	34.32	51.33	62.31	68.20	5.89	Peak
5	15600.00	40.24	6.53	34.36	26.63	39.04	74.00	34.96	Peak
6	17796.00	47.27	8.11	34.32	27.93	48.99	74.00	25.01	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 29
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

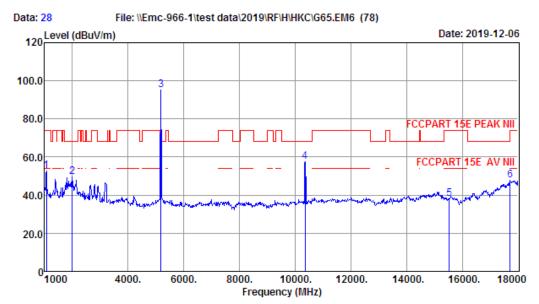
Test Mode : IEEE 802.11n HT20 TX 5200MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.00	24.42	1.06	34.61	58.94	49.81	68.20	18.39	Peak
2	1816.00	25.88	1.24	34.76	55.73	48.09	68.20	20.11	Peak
3	5200.00	32.24	3.53	34.62	94.30	95.45	68.20	-27.25	Peak
4	10400.00	39.31	5.99	34.32	49.57	60.55	68.20	7.65	Peak
5	15600.00	40.24	6.53	34.36	28.44	40.85	74.00	33.15	Peak
6	17779.00	47.14	8.10	34.32	25.73	46.65	74.00	27.35	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 28
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

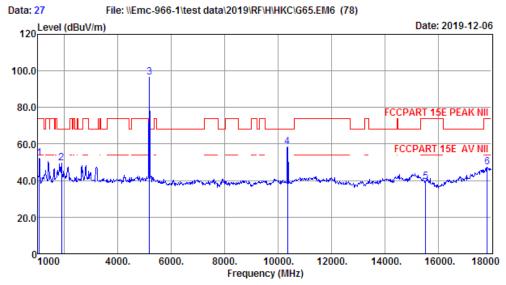
Test Mode : IEEE 802.11n HT20 TX 5180MHz

	Freq.	Ant.	Cable	Amp		Emission			
		•			Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1068.00	24.47	1.06	34.61	61.73	52.65	68.20	15.55	Peak
2	1986.00	26.62	1.28	34.80	56.68	49.78	68.20	18.42	Peak
3	5180.00	32.20	3.52	34.63	93.99	95.08	68.20	-26.88	Peak
4	10360.00	39.27	5.99	34.31	46.73	57.68	68.20	10.52	Peak
5	15540.00	40.31	6.46	34.39	25.75	38.13	74.00	35.87	Peak
6	17728.00	46.73	8.06	34.33	27.26	47.72	74.00	26.28	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber

Data no. : 27 Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT9120D 1-18G

: FCCPART 15E PEAK NII Limit

Env. / Ins. : Temp:27.3';Humi:54%;Press:101.52kPa

Engineer : Seven EUT : LED TV : AC 120V/60Hz Power

: G65 M/N

Test Mode : IEEE 802.11n HT20 TX 5180MHz

		Ant.	Cable	Amp		Emission			
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1051.00	24.42	1.06	34.61	61.21	52.08	68.20	16.12	Peak
2	1884.00	26.17	1.25	34.78	56.83	49.47	68.20	18.73	Peak
3	5180.00	32.20	3.52	34.63	95.34	96.43	68.20	-28.23	Peak
4	10360.00	39.27	5.99	34.31	47.70	58.65	68.20	9.55	Peak
5	15540.00	40.31	6.46	34.39	26.99	39.37	74.00	34.63	Peak
6	17847.00	47.68	8.14	34.32	25.74	47.24	74.00	26.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.

Note:

1:All modulations are all tested ,only worse case is

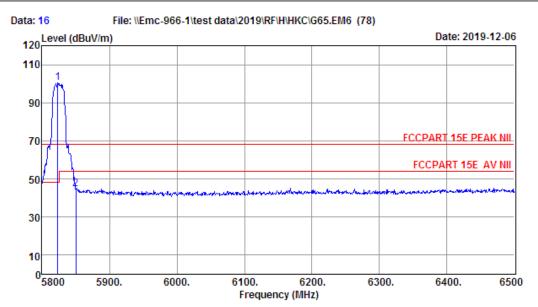


Radiated Band Edge

EST Technology

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Site no. : 1# 966 Chamber Data no. : 16
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11a TX 5825MHz

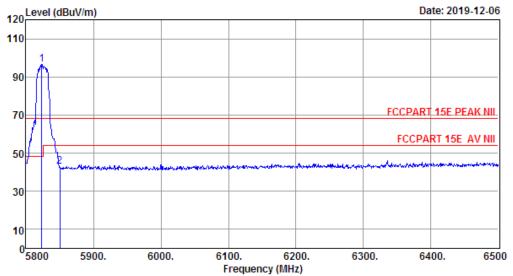
	Freq. (MHz)		Factor	Emission Level (dBuV/m)		Margin (dB)	Remark
1 2	5823.10 5850.00	 		 100.47 44.88	68.20 68.20	-32.27 23.32	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 15 File: \\Emc-966-1\\test data\\2019\\RF\\H\\KC\\G65.EM6 (78)



Site no. : 1# 966 Chamber Data no. : 15
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

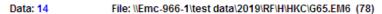
Test Mode : IEEE 802.11a TX 5825MHz

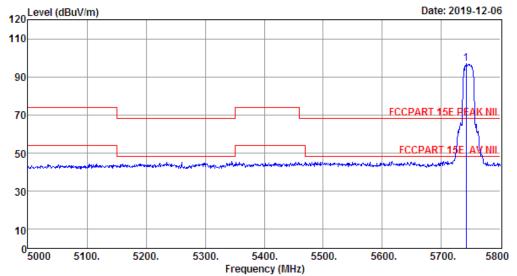
	Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	5823.10 5850.00			94.06 40.18	96.63 42.78	68.20 68.20	-28.43 25.42	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 14
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11a TX 5745MHz

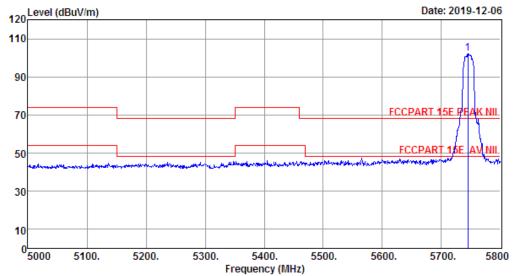
	Freq.			Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5741.60	32.85	4.00	34.40	94.72	97.17	68.20	-28.97	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 13 File: \\Emc-966-1\test data\2019\\RF\\H\\HKC\\G65.EM6 (78)



Site no. : 1# 966 Chamber Data no. : 13
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11a TX 5745MHz

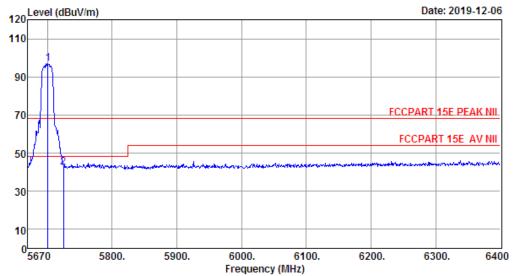
	Freq.	Factor		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5744.80	32.85	4.00	34.40	99.82	102.27	68.20	-34.07	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data: 12 File: \\Emc-966-1\\test data\\2019\\RF\\H\\HKC\\G65.EM6 (78)



Site no. : 1# 966 Chamber Data no. : 12
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11a TX 5700MHz

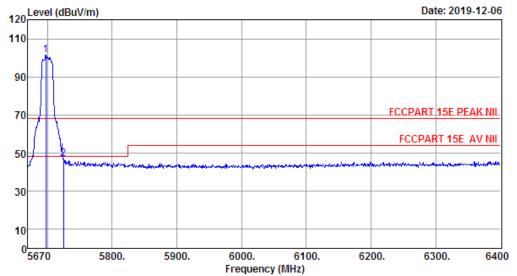
Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
5700.66 5725.00			94.48 40.08	96.88 42.51	68.20 68.20	-28.68 25.69	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 11
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

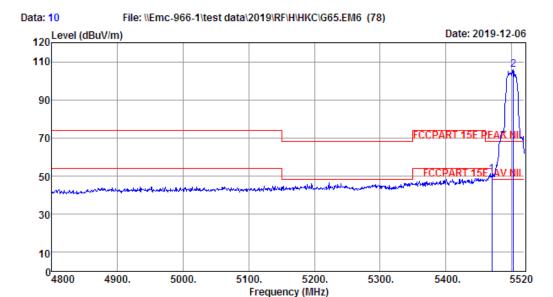
Test Mode : IEEE 802.11a TX 5700MHz

Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
5697.74 5725.00			99.17 44.55	101.55 46.98	68.20 68.20	-33.35 21.22	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 10

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

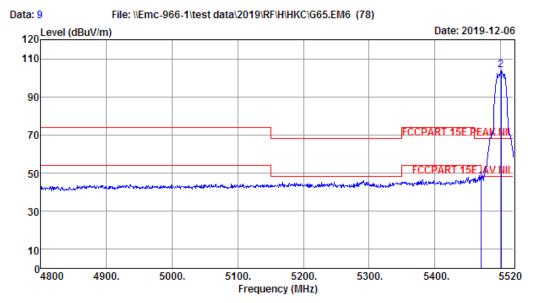
Test Mode : IEEE 802.11a TX 5500MHz

	Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	5470.00 5502.72				50.96 105.84	68.20 68.20	17.24 -37.64	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 9
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

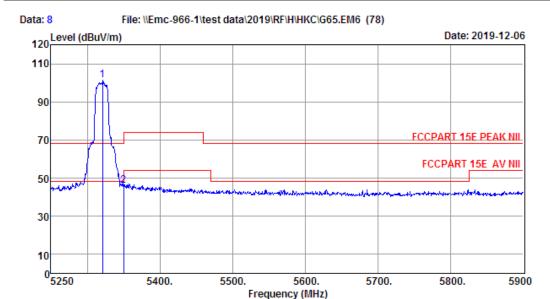
Test Mode : IEEE 802.11a TX 5500MHz

Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
5470.00 5501.28				45.69 103.88	68.20 68.20	22.51 -35.68	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber
Dis. / Ant. : 3m ANT9120D 1-18G Data no. : 8

Ant. pol. : HORIZONTAL

: FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

: Seven Engineer EUT : LED TV : AC 120V/60Hz Power

M/N : G65

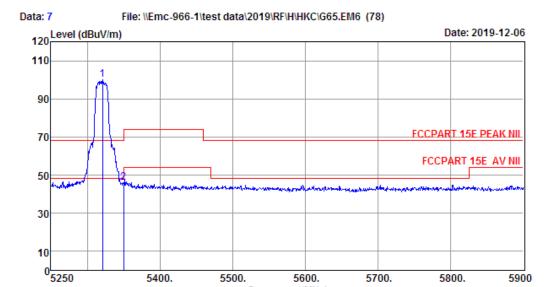
Test Mode : IEEE 802.11a TX 5320MHz

	Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	5320.85 5350.00			99.73 44.42	101.26 46.05	68.20 68.20	-33.06 22.15	Peak Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Frequency (MHz)

Site no. : 1# 966 Chamber Data no. : 7
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

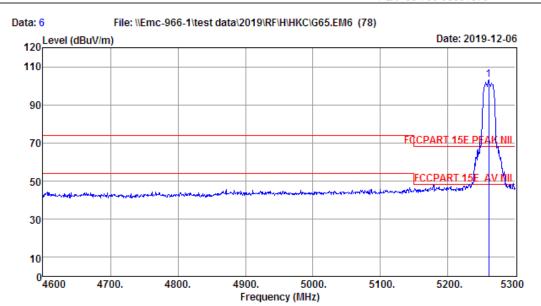
Test Mode : IEEE 802.11a TX 5320MHz

	Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	5320.85 5350.00			98.42 44.63	99.95 46.26	68.20 68.20	-31.75 21.94	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 6
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

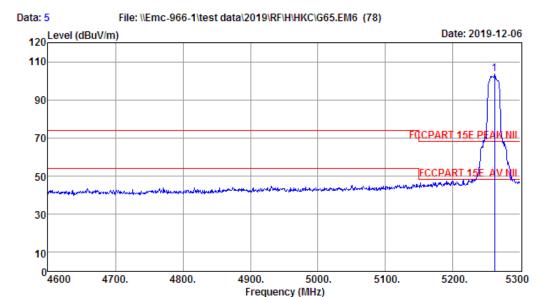
Test Mode : IEEE 802.11a TX 5260MHz

	Freq.			Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5260.10	32.39	3.57	34.59	101.68	103.05	68.20	-34.85	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 5

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11a TX 5260MHz

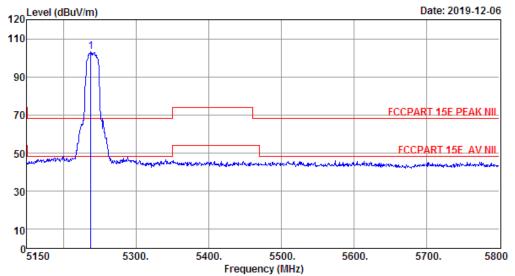
	Freq.	Factor		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5261.50	32.39	3.57	34.59	102.18	103.55	68.20	-35.35	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT9120D 1-18G Data no. : 4

Ant. pol. : HORIZONTAL

: FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

: Seven Engineer EUT : LED TV : AC 230V/50Hz Power

M/N : G65

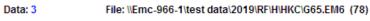
Test Mode : IEEE 802.11a TX 5240MHz

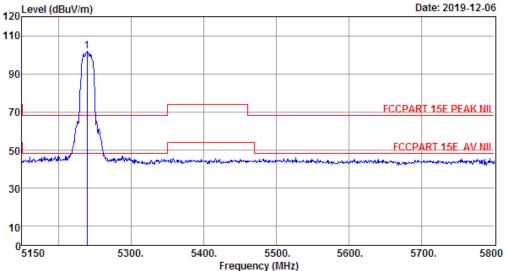
	Freq.	Factor		Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5237.75	32.31	3.55	34.61	101.95	103.20	68.20	-35.00	Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 3
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

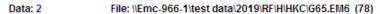
Test Mode : IEEE 802.11a TX 5240MHz

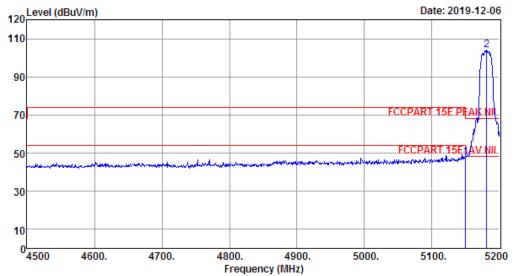
	Freq.			Factor	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5239.70	32.31	3.55	34.61	100.55	101.80	68.20	-33.60	Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 2
Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : VERTICAL

Limit : FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

Engineer : Seven
EUT : LED TV
Power : AC 120V/60Hz

M/N : G65

Test Mode : IEEE 802.11a TX 5180MHz

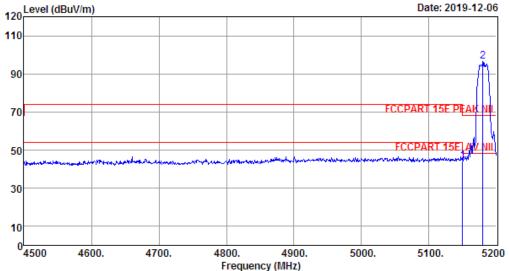
Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
5150.00 5181.10				47.99 103.97	68.20 68.20	20.21 -35.77	Peak Peak

- 2. Margin= Limit Emission Level.
- The emission levels that are 20dB below the official limit are not reported.



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Data no. : 1 : 1# 966 Chamber Site no.

Dis. / Ant. : 3m ANT9120D 1-18G Ant. pol. : HORIZONTAL

: FCCPART 15E PEAK NII

Env. / Ins. : Temp:27.3'; Humi:54%; Press:101.52kPa

: Seven Engineer EUT : LED TV : AC 120V/60Hz Power

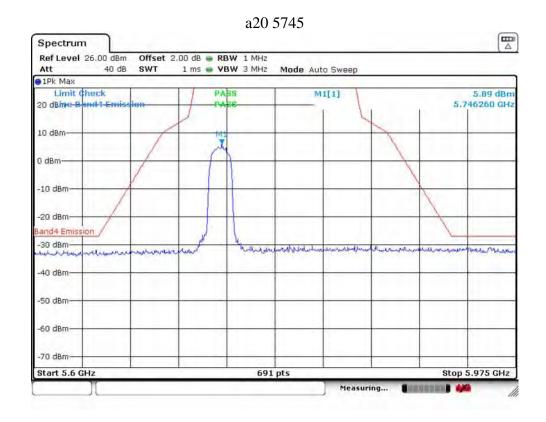
M/N : G65

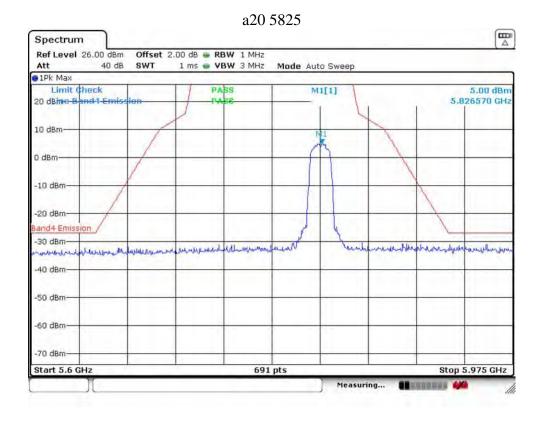
Test Mode : IEEE 802.11a TX 5180MHz

Freq.		-	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
5150.00 5179.70			43.35 95.59	44.34 96.68	68.20 68.20	23.86 -28.48	Peak Peak

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.

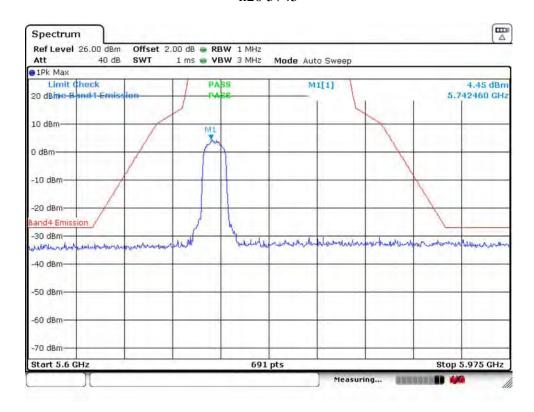


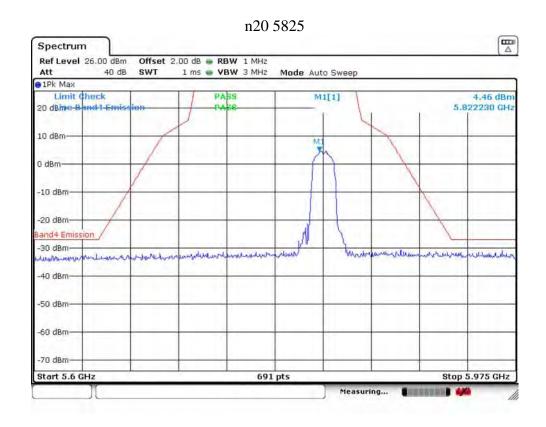




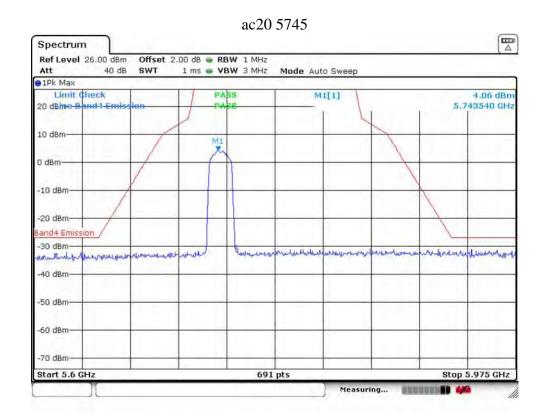


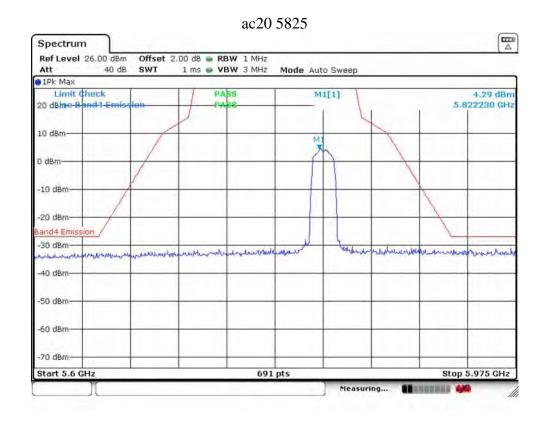
n20 5745

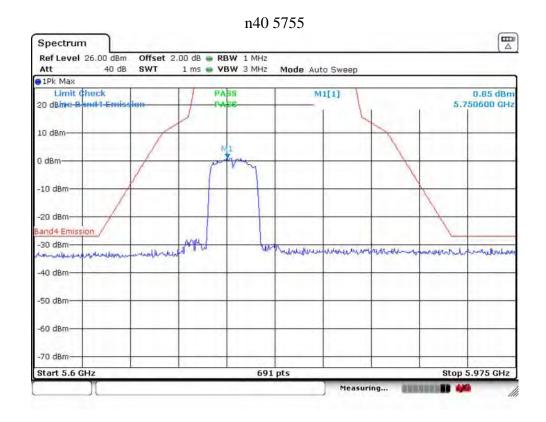


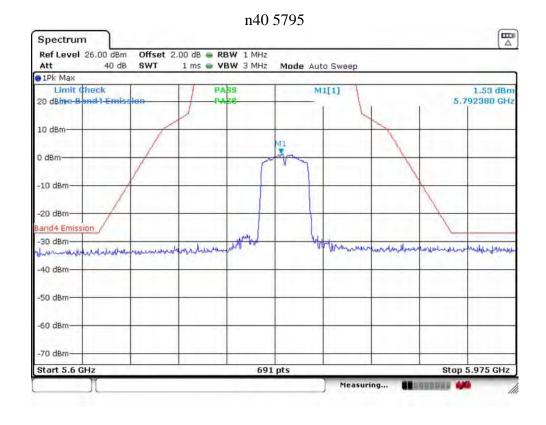




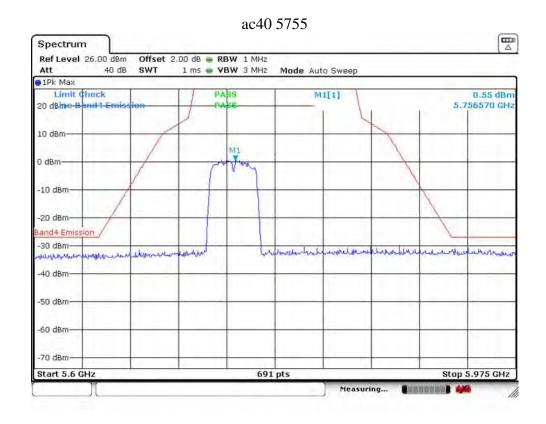


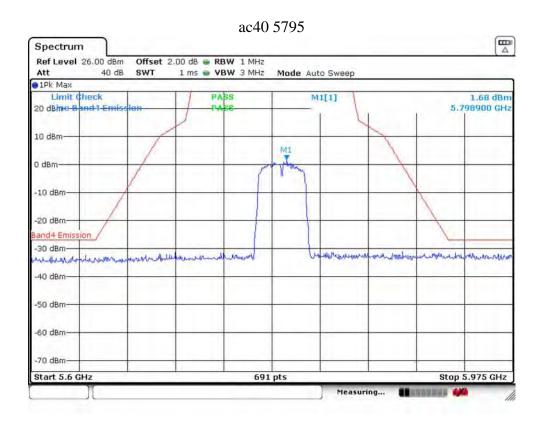




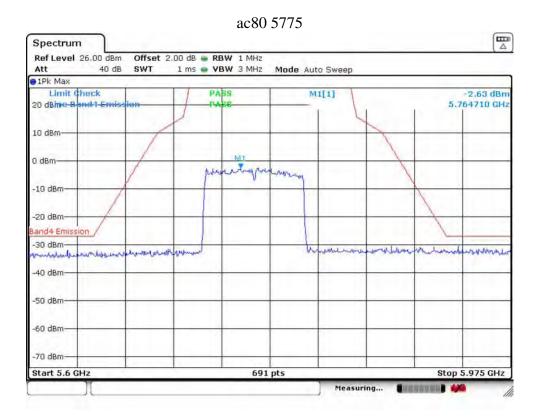












Note:

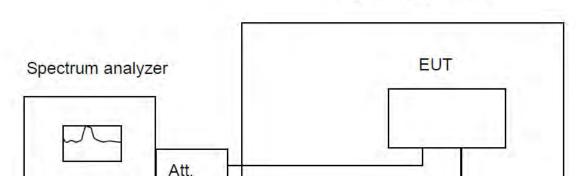
1:All modulations are all tested ,only worse case is reported

7. FREQUENCY STABILITY

7.1. Limit

Manufacturers 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 in the operational description.

7.2. Test Setup



Variable Power Supply

Temperature Chamber

7.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

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7.4. Test Procedure

For measurement frequency stability under temperature variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20° C to $+50^{\circ}$ C in 10° C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}$ C to $+25^{\circ}$ C) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

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7.5. Test Result

Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
			0	5179.9610040	-7.53
	120	70	2	5179.9610030	-7.53
		50	5	5179.9610090	-7.53
			10	5179.9610100	-7.53
			0	5179.9610030	-7.53
			2	5179.9610040	-7.53
	120	40	5	5179.9610100	-7.53
			10	5179.9610120	-7.53
			0	5179.9610040	-7.53
	120	20	2	5179.9610030	-7.53
	120	30	5	5179.9610040	-7.53
			10	5179.9160040	-16.22
	120		0	5179.9610040	-7.53
		20	2	5179.9610100	-7.53
			5	5179.9610030	-7.53
			10	5179.9610040	-7.53
	120	10	0	5179.9610200	-7.53
5180			2	5179.9610040	-7.53
3100			5	5179.9610050	-7.53
			10	5179.9610050	-7.53
			0	5179.9610050	-7.53
	120	0	2	5179.9610040	-7.53
	120	U	5	5179.9610030	-7.53
			10	5179.9610040	-7.53
			0	5179.9610100	-7.53
	120	10	2	5179.9610050	-7.53
	120	-10	5	5179.9610050	-7.53
			10	5179.9610040	-7.53
			0	5179.9610050	-7.53
	120	-20	2	5179.9610040	-7.53
	120	-20	5	5179.9610030	-7.53
			10	5179.9610100	-7.53
	120	20	/	5179.9610040	-7.53
	102	20	/	5179.9610030	-7.53
	138	20	/	5179.9610030	-7.53
		MAX Frque	ency Error(pp	om)	-7.53

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Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)	
			0	5319.9560050	-8.27	
	100	50	2	5319.9560050	-8.27	
	120	50	5	5319.9560040	-8.27	
			10	5319.9560050	-8.27	
			0	5319.9560050	-8.27	
			2	5319.9560040	-8.27	
	120	40	5	5319.9560040	-8.27	
			10	5319.9560040	-8.27	
			0	5319.9560050	-8.27	
	120	20	2	5319.9560080	-8.27	
	120	30	5	5319.9560050	-8.27	
			10	5319.9560040	-8.27	
	120		0	5319.9560040	-8.27	
		20	2	5319.9560050	-8.27	
		20	5	5319.9560050	-8.27	
			10	5319.9560080	-8.27	
	120	10	0	5319.9560040	-8.27	
5320			2	5319.9560040	-8.27	
3320			5	5319.9560040	-8.27	
			10	5319.9560050	-8.27	
			0	5319.9560050	-8.27	
	120	0	2	5319.9560040	-8.27	
	120	U	5	5319.9560050	-8.27	
			10	5319.9560050	-8.27	
			0	5319.9560040	-8.27	
	120	10	2	5319.9560050	-8.27	
	120	-10	5	5319.9560050	-8.27	
		<u> </u>	10	5319.9560040	-8.27	
			0	5319.9560050	-8.27	
	120	20	2	5319.9560050	-8.27	
	120	-20	5	5319.9560040	-8.27	
			10	5319.9560050	-8.27	
	120	20	/	5319.9560050	-8.27	
	102	20	/	5319.9560040	-8.27	
	138					
		MAX Frque	ncy Error(pp	om)	-8.27	



Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)	
			0	5499.9510050	-8.91	
	100	70	2	5499.9510050	-8.91	
	120	50	5	5499.9510060	-8.91	
			10	5499.9510060	-8.91	
			0	5499.9510050	-8.91	
			2	5499.9510040	-8.91	
	120	40	5	5499.9510050	-8.91	
			10	5499.9510050	-8.91	
			0	5499.9510040	-8.91	
	100	20	2	5499.9510050	-8.91	
	120	30	5	5499.9510040	-8.91	
			10	5499.9510050	-8.91	
	120		0	5499.9510040	-8.91	
		20	2	5499.9510040	-8.91	
			5	5499.9510050	-8.91	
			10	5499.9510030	-8.91	
	120	10	0	5499.9510030	-8.91	
5500			2	5499.9510040	-8.91	
2500			5	5499.9510050	-8.91	
			10	5499.9510040	-8.91	
			0	5499.9510050	-8.91	
	120	0	2	5499.9510060	-8.91	
	120	U	5	5499.9510050	-8.91	
			10	5499.9510040	-8.91	
			0	5499.9510050	-8.91	
	120	10	2	5499.9510040	-8.91	
	120	-10	5	5499.9510050	-8.91	
		<u> </u>	10	5499.9510060	-8.91	
			0	5499.9510050	-8.91	
	120	20	2	5499.9510040	-8.91	
	120	-20	5	5499.9510050	-8.91	
			10	5499.9510040	-8.91	
	120	20	/	5499.9510020	-8.91	
	102	20	/	5499.9510040	-8.91	
	138					
		MAX Frque	ncy Error(pp	om)	-8.91	



Frequency (MHz)	Voltage (V)	Temperature (°C)	Time (minutes)	Measurement Value (MHz)	Frequency Error (ppm)
			0	5744.9590040	-7.14
	100	50	2	5744.9590050	-7.14
	120	50	5	5744.9590050	-7.14
			10	5744.9590050	-7.14
			0	5744.9590040	-7.14
			2	5744.9590040	-7.14
	120	40	5	5744.9590050	-7.14
			10	5744.9590030	-7.14
			0	5744.9590040	-7.14
	120	20	2	5744.9590050	-7.14
	120	30	5	5744.9590050	-7.14
			10	5744.9590050	-7.14
	120		0	5744.9590040	-7.14
		20	2	5744.9590060	-7.14
			5	5744.9590050	-7.14
			10	5744.9590040	-7.14
	120	10	0	5744.9590050	-7.14
5745			2	5744.9590040	-7.14
3713			5	5744.9590050	-7.14
			10	5744.9590050	-7.14
			0	5744.9590040	-7.14
	120	0	2	5744.9590050	-7.14
	120	U	5	5744.9590050	-7.14
			10	5744.9590060	-7.14
			0	5744.9590050	-7.14
	120	-10	2	5744.9590050	-7.14
	120	-10	5	5744.9590040	-7.14
			10	5744.9590050	-7.14
			0	5744.9590040	-7.14
	120	-20	2	5744.9590060	-7.14
	120	-20	5	5744.9590050	-7.14
			10	5744.9590050	-7.14
	120	20	/	5744.9590040	-7.14
	102	20	/	5744.9590060	-7.14
	138	20	/	5744.9590080	-7.14
		MAX Frque	ency Error(pp	om)	-7.14



8. AC POWER LINE CONDUCTED EMISSIONS

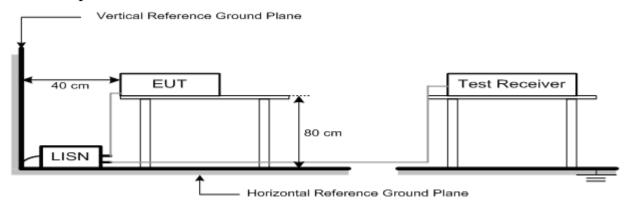
8.1. Limit

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	dB(µV)	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes:

- 1. * Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

8.4. Test Procedure

- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 8.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.

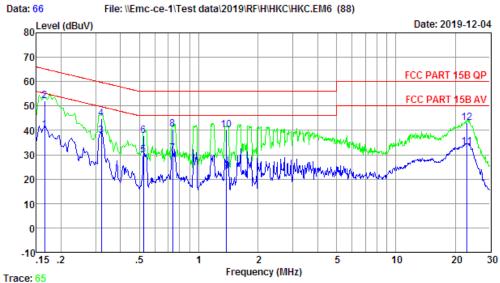
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8.5. Test Result

EST Technology

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: 844 Shield Room

Site no Data no. Env. / Ins. : Temp:22.5°C Humi:23% Press:101.40kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

: SHO Engineer EUT : LED TV Power : AC 120V/60Hz M/N : G65

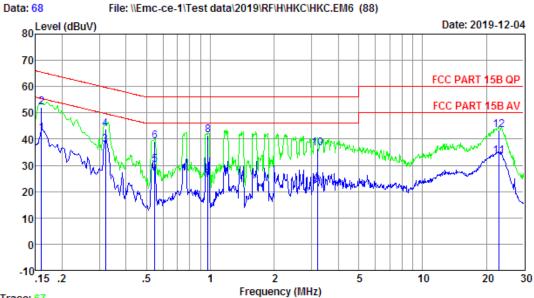
Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.17	9.64	0.04	30.56	40.24	55.21	14.97	Average
2	0.17	9.64	0.04	42.56	52.24	65.21	12.97	QP
3	0.32	9.66	0.05	27.97	37.68	49.71	12.03	Average
4	0.32	9.66	0.05	34.97	44.68	59.71	15.03	QP
5	0.52	9.70	0.05	20.07	29.82	46.00	16.18	Average
6	0.52	9.70	0.05	28.07	37.82	56.00	18.18	QP
7	0.74	9.72	0.05	20.60	30.37	46.00	15.63	Average
8	0.74	9.72	0.05	30.60	40.37	56.00	15.63	QP
9	1.38	9.77	0.06	13.44	23.27	46.00	22.73	Average
10	1.38	9.77	0.06	30.44	40.27	56.00	15.73	QP
11	23.02	10.00	0.09	22.99	33.08	50.00	16.92	Average
12	23.02	10.00	0.09	33.00	43.09	60.00	16.91	QP

- 2. Margin=Limit Emission Level.
- 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 67

Site no : 844 Shield Room Data no. : 68

Env. / Ins. : Temp:22.5°C Humi:23% Press:101.40kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : SHO
EUT : LED TV
Power : AC 120V/60Hz

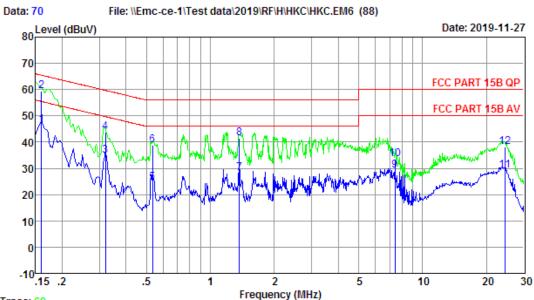
M/N : G65 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.68	0.04	32.28	42.00	55.47	13.47	Average
2	0.16	9.68	0.04	42.28	52.00	65.47	13.47	QP
3	0.32	9.73	0.05	28.16	37.94	49.71	11.77	Average
4	0.32	9.73	0.05	34.16	43.94	59.71	15.77	QP
5	0.55	9.80	0.05	20.18	30.03	46.00	15.97	Average
6	0.55	9.80	0.05	29.18	39.03	56.00	16.97	QP
7	0.97	9.89	0.06	14.55	24.50	46.00	21.50	Average
8	0.97	9.89	0.06	31.55	41.50	56.00	14.50	QP
9	3.19	9.90	0.07	12.61	22.58	46.00	23.42	Average
10	3.19	9.90	0.07	26.59	36.56	56.00	19.44	QP
11	23.02	10.01	0.09	23.46	33.56	50.00	16.44	Average
12	23.02	10.01	0.09	33.46	43.56	60.00	16.44	QP

- 2. Margin=Limit Emission Level.
- If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 69

Site no : 844 Shield Room Data no. : 70

Env. / Ins. : Temp:24.7°C Humi:53% Press:101.40kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : SHO
EUT : LED TV
Power : AC 240V/60Hz

M/N : G65 Test Mode : TX Mode

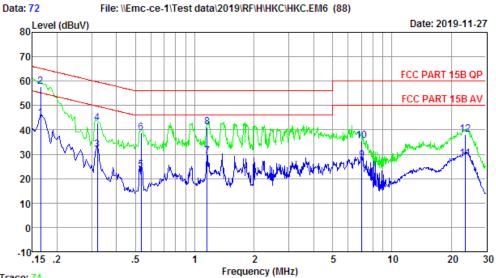
	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.68	0.04	36.65	46.37	55.47	9.10	Average
2	0.16	9.68	0.04	49.65	59.37	65.47	6.10	QP
3	0.32	9.73	0.05	25.00	34.78	49.71	14.93	Average
4	0.32	9.73	0.05	34.00	43.78	59.71	15.93	QP
5	0.53	9.80	0.05	14.85	24.70	46.00	21.30	Average
6	0.53	9.80	0.05	28.85	38.70	56.00	17.30	QP
7	1.37	9.87	0.06	18.42	28.35	46.00	17.65	Average
8	1.37	9.87	0.06	31.42	41.35	56.00	14.65	QP
9	7.41	10.35	0.08	18.91	29.34	50.00	20.66	Average
10	7.41	10.35	0.08	22.91	33.34	60.00	26.66	QP
11	24.53	10.01	0.09	19.15	29.25	50.00	20.75	Average
12	24.53	10.01	0.09	28.15	38.25	60.00	21.75	QP

- 2. Margin=Limit Emission Level.
- If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 71

Site no : 844 Shield Room Data no. : 72

Env. / Ins. : Temp:24.7°C Humi:53% Press:101.40kPa LINE Phase : NEUTRAL

: FCC PART 15B QP Limit

: SHO Engineer EUT : LED TV Power : AC 240V/60Hz

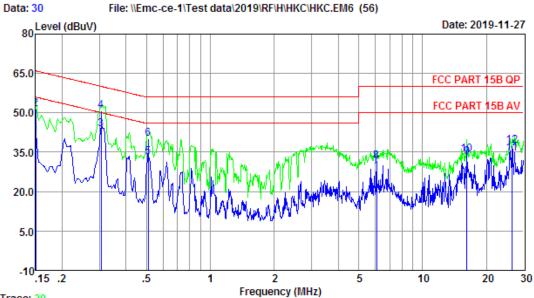
: G65 M/N : TX Mode Test Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.17	9.64	0.04	35.06	44.74	55.21	10.47	Average
2	0.17	9.64	0.04	48.06	57.74	65.21	7.47	QP
3	0.32	9.66	0.05	22.02	31.73	49.71	17.98	Average
4	0.32	9.66	0.05	33.02	42.73	59.71	16.98	QP
5	0.53	9.70	0.05	13.91	23.66	46.00	22.34	Average
6	0.53	9.70	0.05	28.91	38.66	56.00	17.34	QP
7	1.15	9.76	0.06	19.38	29.20	46.00	16.80	Average
8	1.15	9.76	0.06	31.38	41.20	56.00	14.80	QP
9	7.02	9.55	0.08	17.87	27.50	50.00	22.50	Average
10	7.02	9.55	0.08	25.87	35.50	60.00	24.50	QP
11	23.64	10.01	0.09	18.20	28.30	50.00	21.70	Average
12	23.64	10.01	0.09	28.19	38.29	60.00	21.71	QP

- 2. Margin=Limit Emission Level.
- 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 29

: 844 Shield Room Site no Data no. : 30

Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE

: FCC PART 15B QP Limit

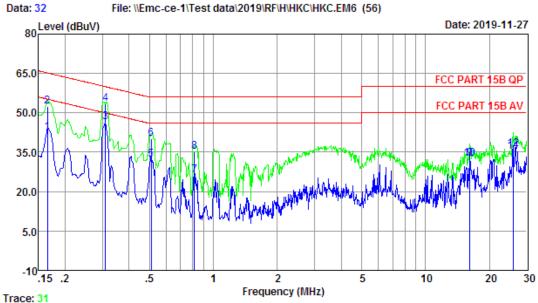
Engineer : SHO EUT : LED TV Power : AC 120V/60Hz : A550CV-UMC M/N Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.68	0.04	31.83	41.55	56.00	14.45	Average
2	0.15	9.68	0.04	41.83	51.55	66.00	14.45	QP
3	0.31	9.73	0.04	34.01	43.78	50.10	6.32	Average
4	0.31	9.73	0.04	41.00	50.77	60.10	9.33	QP
5	0.51	9.79	0.05	23.37	33.21	46.00	12.79	Average
6	0.51	9.79	0.05	30.37	40.21	56.00	15.79	QP
7	6.09	10.29	0.07	19.26	29.62	50.00	20.38	Average
8	6.09	10.29	0.07	21.26	31.62	60.00	28.38	QP
9	16.23	9.99	0.08	22.95	33.02	50.00	16.98	Average
10	16.23	9.99	0.08	23.95	34.02	60.00	25.98	QP
11	26.42	10.02	0.09	24.33	34.44	50.00	15.56	Average
12	26.42	10.02	0.09	27.33	37.44	60.00	22.56	QP

- 2. Margin= Limit Emission Level.
- 3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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: 844 Shield Room Site no Data no. : 32

Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL

: FCC PART 15B QP Limit

Engineer : SHO EUT : LED TV Power : AC 120V/60Hz : A550CV-UMC M/N Test Mode : TX Mode

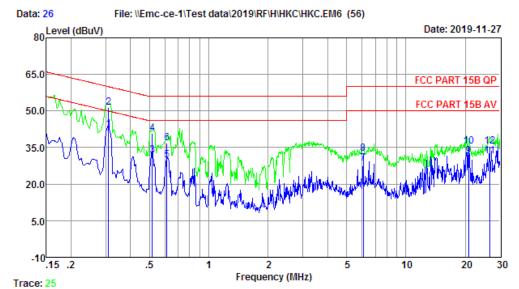
	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.17	9.64	0.04	32.90	42.58	55.21	12.63	Average
2	0.17	9.64	0.04	42.90	52.58	65.21	12.63	QP
3	0.31	9.69	0.04	36.72	46.45	49.97	3.52	Average
4	0.31	9.69	0.04	43.67	53.40	59.97	6.57	QP
5	0.51	9.70	0.05	22.56	32.31	46.00	13.69	Average
6	0.51	9.70	0.05	30.56	40.31	56.00	15.69	QP
7	0.81	9.73	0.05	16.33	26.11	46.00	19.89	Average
8	0.81	9.73	0.05	25.32	35.10	56.00	20.90	QP
9	16.23	10.08	0.08	22.28	32.44	50.00	17.56	Average
10	16.23	10.08	0.08	22.27	32.43	60.00	27.57	QP
11	25.86	10.03	0.09	25.21	35.33	50.00	14.67	Average
12	25.86	10.03	0.09	26.21	36.33	60.00	23.67	QP

- 2. Margin= Limit Emission Level.
- 3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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: 844 Shield Room : 26 Site no Data no. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : LINE Env. / Ins.

: FCC PART 15B QP

: SHO Engineer : LED TV EUT : AC 240V/60Hz Power M/N : A550CV-UMC : TX Mode Test Mode

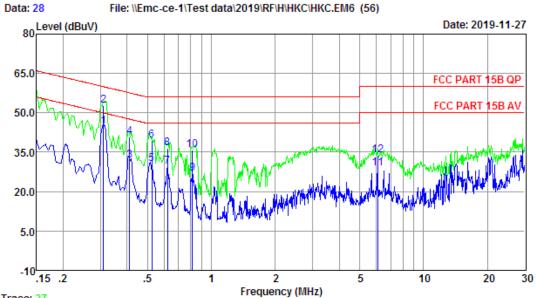
		LISN	Cable		Emission			
	Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuv)	(dBuv)	(dB)	
1	0.31	9.73	0.04	32.64	42.41	49.97	7.56	Average
2	0.31	9.73	0.04	41.63	51.40	59.97	8.57	QP
3	0.52	9.79	0.05	21.86	31.70	46.00	14.30	Average
4	0.52	9.79	0.05	30.86	40.70	56.00	15.30	QP
5	0.61	9.81	0.05	19.89	29.75	46.00	16.25	Average
6	0.61	9.81	0.05	26.89	36.75	56.00	19.25	QP
7	6.09	10.29	0.07	18.04	28.40	50.00	21.60	Average
8	6.09	10.29	0.07	22.03	32.39	60.00	27.61	QP
9	20.81	10.02	0.09	21.40	31.51	50.00	18.49	Average
10	20.81	10.02	0.09	25.39	35.50	60.00	24.50	QP
11	26.56	10.03	0.09	21.45	31.57	50.00	18.43	Average
12	26.56	10.03	0.09	25.44	35.56	60.00	24.44	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading. 2. Margin= Limit - Emission Level.

- 3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 27

: 844 Shield Room Site no Data no. : 28

Env. / Ins. : Temp:25.5°C Humi:52% Press:101.50kPa LINE Phase : NEUTRAL

: FCC PART 15B QP Limit

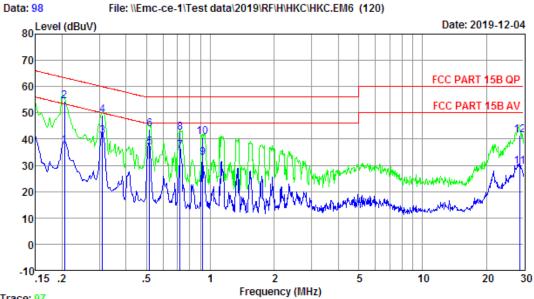
Engineer : SHO EUT : LED TV Power : AC 240V/60Hz M/N : A550CV-UMC Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.31	9.66	0.04	35.10	44.80	49.97	5.17	Average
2	0.31	9.66	0.04	43.09	52.79	59.97	7.18	QP
3	0.41	9.68	0.05	22.12	31.85	47.59	15.74	Average
4	0.41	9.68	0.05	31.12	40.85	57.59	16.74	QP
5	0.52	9.70	0.05	20.80	30.55	46.00	15.45	Average
6	0.52	9.70	0.05	29.79	39.54	56.00	16.46	QP
7	0.62	9.71	0.05	19.65	29.41	46.00	16.59	Average
8	0.62	9.71	0.05	26.65	36.41	56.00	19.59	QP
9	0.81	9.73	0.05	17.18	26.96	46.00	19.04	Average
10	0.81	9.73	0.05	26.18	35.96	56.00	20.04	QP
11	6.09	9.72	0.07	19.16	28.95	50.00	21.05	Average
12	6.09	9.72	0.07	24.16	33.95	60.00	26.05	QP

- 2. Margin= Limit Emission Level.
- 3. If the average limit is met when useing a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 97

Site no : 844 Shield Room Data no. : 98

Env. / Ins. : Temp:22.5°C Humi:23% Press:101.40kPa LINE Phase : NEUTRAL

: FCC PART 15B QP Limit

Engineer : SHO EUT : LED TV Power : AC 120V/60Hz

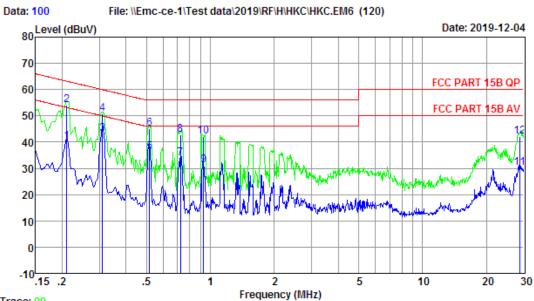
M/N : G50 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.21	9.65	0.04	27.89	37.58	53.40	15.82	Average
2	0.21	9.65	0.04	44.89	54.58	63.40	8.82	QP
3	0.31	9.66	0.04	31.38	41.08	49.97	8.89	Average
4	0.31	9.66	0.04	39.37	49.07	59.97	10.90	QP
5	0.52	9.70	0.05	27.02	36.77	46.00	9.23	Average
6	0.52	9.70	0.05	34.01	43.76	56.00	12.24	QP
7	0.72	9.72	0.05	25.72	35.49	46.00	10.51	Average
8	0.72	9.72	0.05	32.71	42.48	56.00	13.52	QP
9	0.92	9.74	0.06	23.12	32.92	46.00	13.08	Average
10	0.92	9.74	0.06	31.12	40.92	56.00	15.08	QP
11	28.75	10.06	0.09	19.44	29.59	50.00	20.41	Average
12	28.75	10.06	0.09	31.44	41.59	60.00	18.41	QP

- 2. Margin=Limit Emission Level.
- 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 99

Site no : 844 Shield Room Data no. : 100

Env. / Ins. : Temp:22.5°C Humi:23% Press:101.40kPa LINE Phase : LINE

: FCC PART 15B QP Limit

Engineer : SHO EUT : LED TV Power : AC 120V/60Hz

M/N : G50 Test Mode : TX Mode

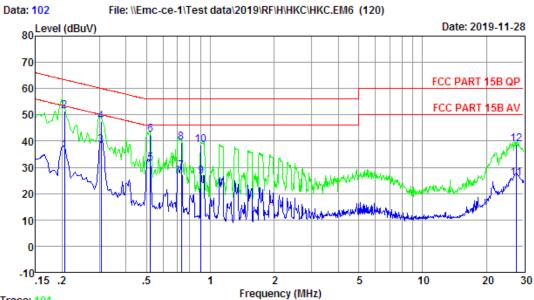
	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.21	9.70	0.04	30.53	40.27	53.18	12.91	Average
2	0.21	9.70	0.04	44.52	54.26	63.18	8.92	QP
3	0.31	9.73	0.04	33.50	43.27	49.97	6.70	Average
4	0.31	9.73	0.04	40.90	50.67	59.97	9.30	QP
5	0.52	9.79	0.05	26.32	36.16	46.00	9.84	Average
6	0.52	9.79	0.05	35.31	45.15	56.00	10.85	QP
7	0.72	9.85	0.05	23.78	33.68	46.00	12.32	Average
8	0.72	9.85	0.05	32.77	42.67	56.00	13.33	QP
9	0.93	9.88	0.06	21.18	31.12	46.00	14.88	Average
10	0.93	9.88	0.06	32.18	42.12	56.00	13.88	QP
11	28.75	10.05	0.09	19.94	30.08	50.00	19.92	Average
12	28.75	10.05	0.09	31.94	42.08	60.00	17.92	QP

- 2. Margin=Limit Emission Level.
- 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 101

: 844 Shield Room Site no Data no. : 102

Env. / Ins. : Temp:24.2°C Humi:43% Press:101.40kPa LINE Phase : NEUTRAL

: FCC PART 15B QP Limit

Engineer : SHO EUT : LED TV Power : AC 240V/60Hz

M/N : G50 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.21	9.65	0.04	26.71	36.40	53.40	17.00	Average
2	0.21	9.65	0.04	41.70	51.39	63.40	12.01	QP
3	0.31	9.66	0.04	28.83	38.53	50.10	11.57	Average
4	0.31	9.66	0.04	37.82	47.52	60.10	12.58	QP
5	0.52	9.70	0.05	21.80	31.55	46.00	14.45	Average
6	0.52	9.70	0.05	32.80	42.55	56.00	13.45	QP
7	0.73	9.72	0.05	18.88	28.65	46.00	17.35	Average
8	0.73	9.72	0.05	29.88	39.65	56.00	16.35	QP
9	0.90	9.74	0.06	16.60	26.40	46.00	19.60	Average
10	0.90	9.74	0.06	28.60	38.40	56.00	17.60	QP
11	27.71	10.05	0.09	15.79	25.93	50.00	24.07	Average
12	27.71	10.05	0.09	28.79	38.93	60.00	21.07	QP

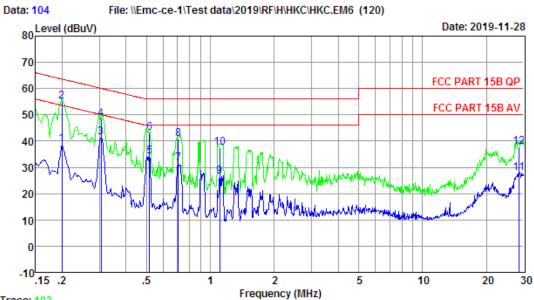
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin=Limit Emission Level.
- 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 103

: 844 Shield Room Site no Data no. : 104

Env. / Ins. : Temp:24.2°C Humi:43% Press:101.40kPa LINE Phase : LINE

: FCC PART 15B QP Limit

Engineer : SHO EUT : LED TV Power : AC 240V/60Hz

M/N : G50 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.20	9.69	0.04	29.25	38.98	53.62	14.64	Average
2	0.20	9.69	0.04	45.24	54.97	63.62	8.65	QP
3	0.31	9.73	0.04	31.56	41.33	50.10	8.77	Average
4	0.31	9.73	0.04	38.55	48.32	60.10	11.78	QP
5	0.52	9.79	0.05	24.42	34.26	46.00	11.74	Average
6	0.52	9.79	0.05	33.42	43.26	56.00	12.74	QP
7	0.70	9.84	0.05	21.78	31.67	46.00	14.33	Average
8	0.70	9.84	0.05	30.78	40.67	56.00	15.33	QP
9	1.11	9.88	0.06	16.54	26.48	46.00	19.52	Average
10	1.11	9.88	0.06	27.53	37.47	56.00	18.53	QP
11	28.45	10.04	0.09	17.76	27.89	50.00	22.11	Average
12	28.45	10.04	0.09	27.75	37.88	60.00	22.12	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin=Limit Emission Level.
- 3. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



9. ANTENNA REQUIREMENTS

9.1. Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

9.2. Test Result

The antennas used for this product is internal antenna, so compliance with antenna requirements. (Please refer to the EUT photo for details)

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10. TEST SETUP PHOTO

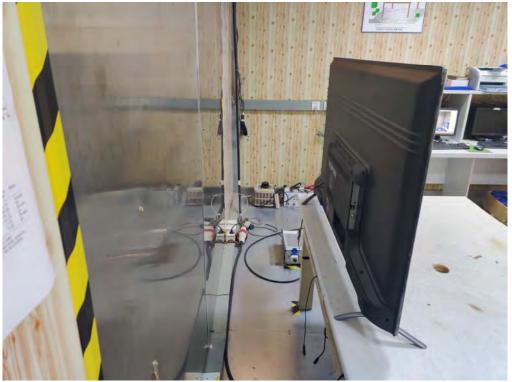
Conducted Test



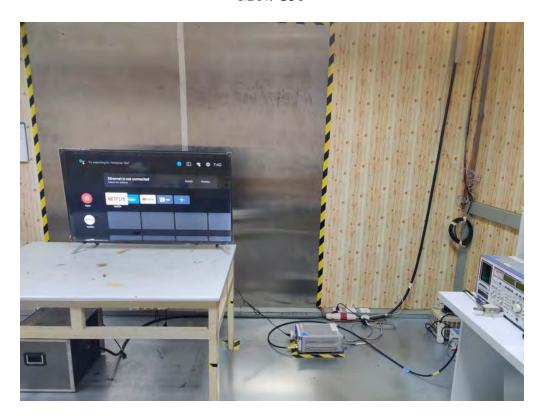


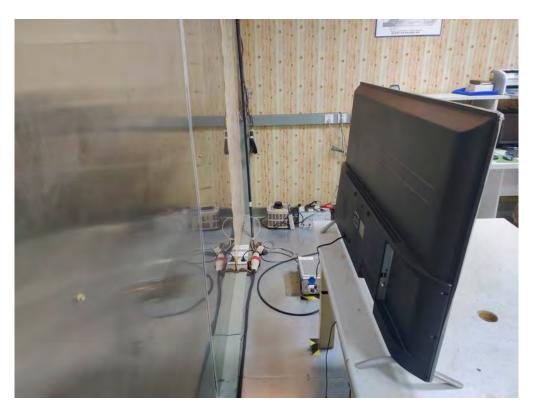
M/N: AC550V-UMC



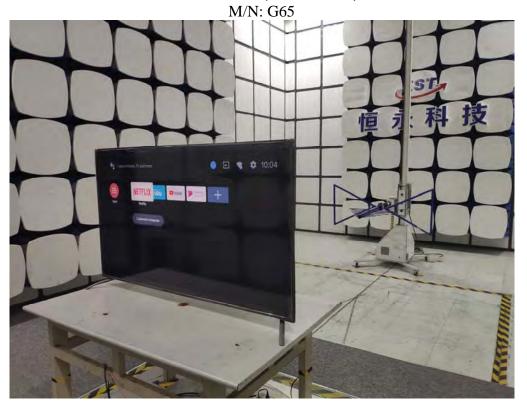


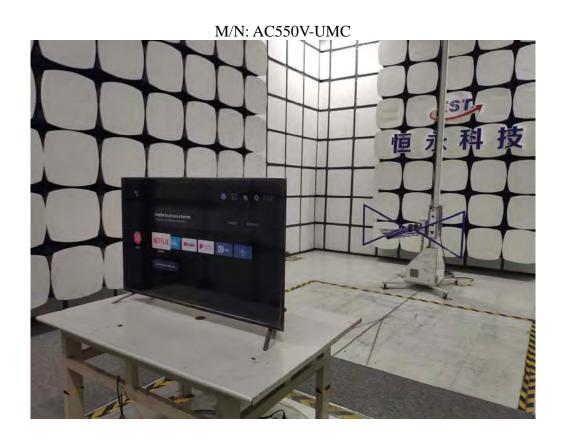
M/N: G50



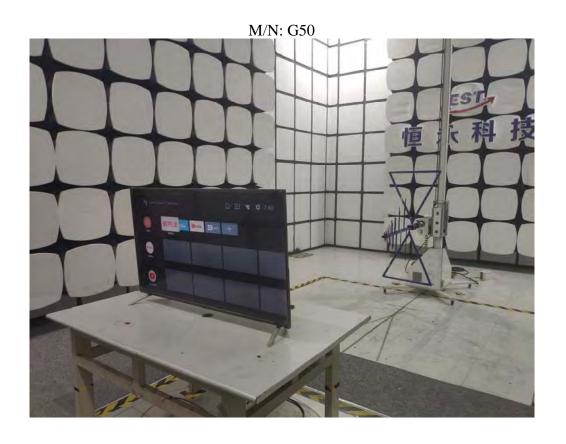


Radiated Test (Below 1GHz)











11. EUT PHOTO

M/N: G65 External Photos





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External Photos





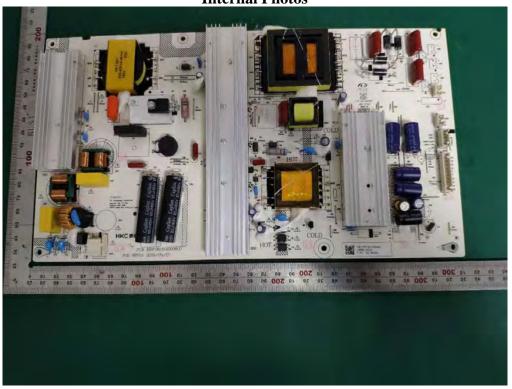


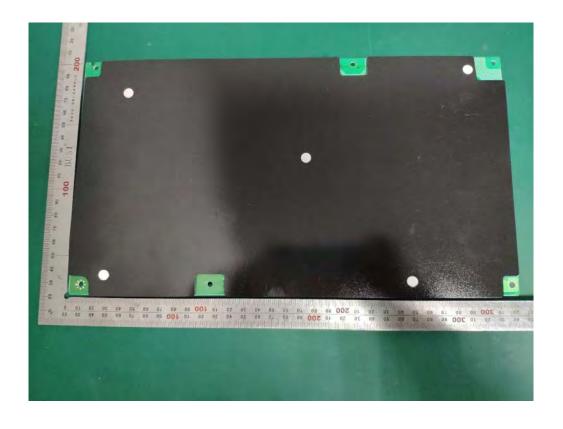












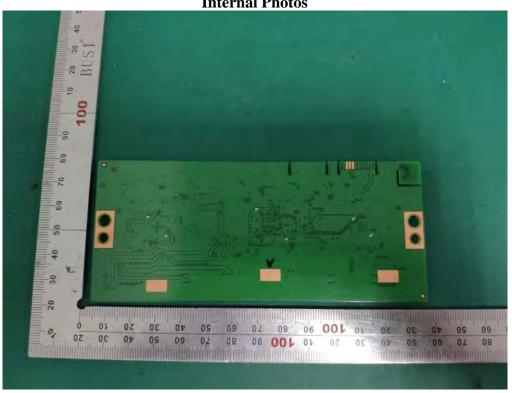






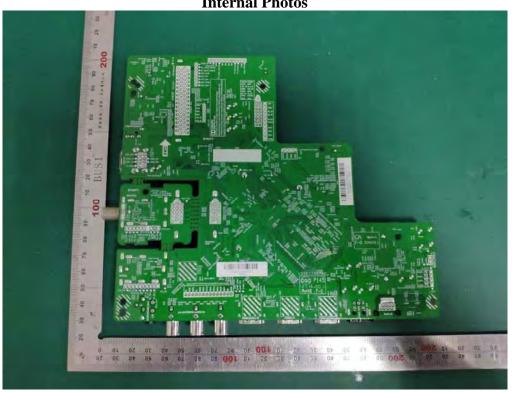










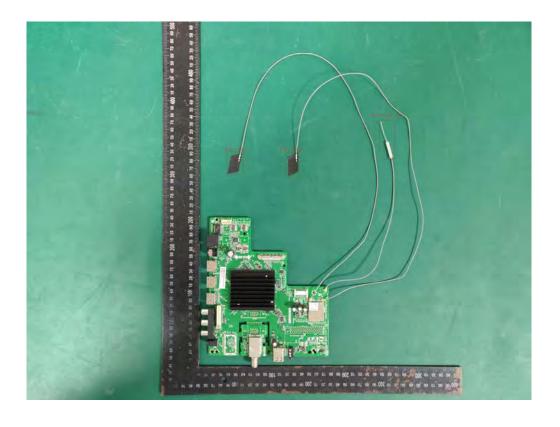






Internal Photos















M/N: A550CV-UMC External Photos





































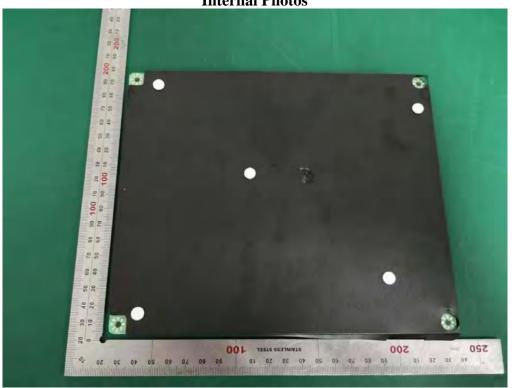


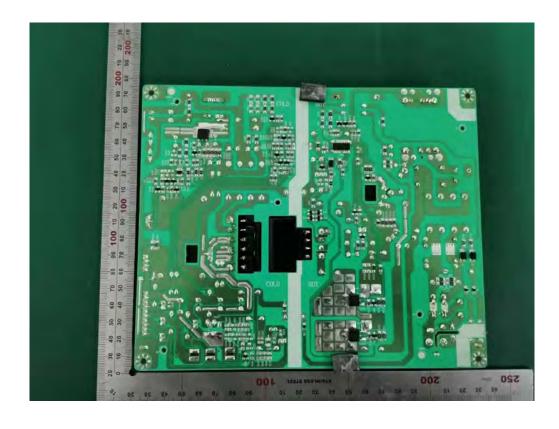














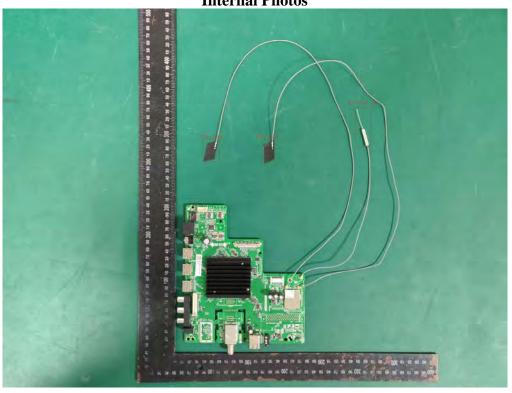




















M/N: G50 External Photos































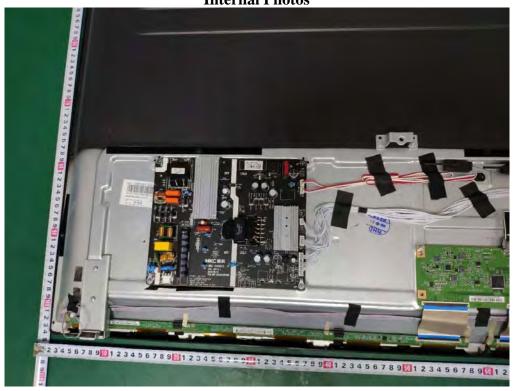








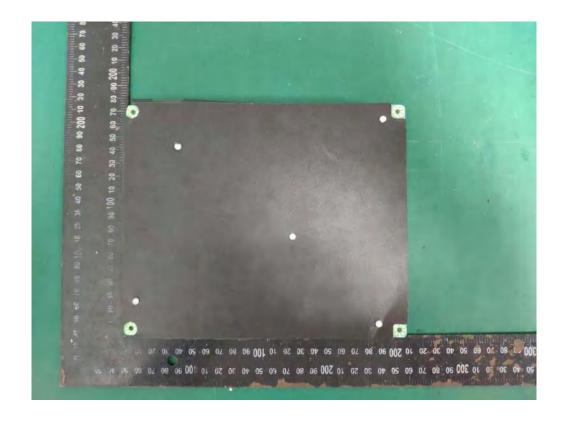






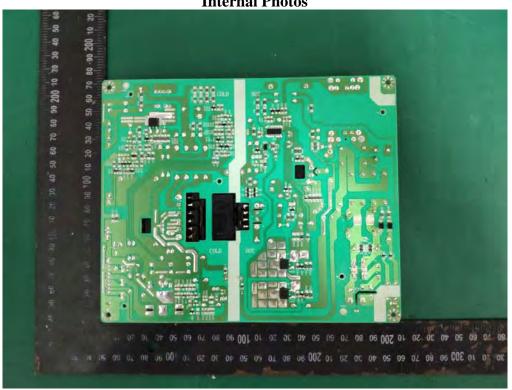


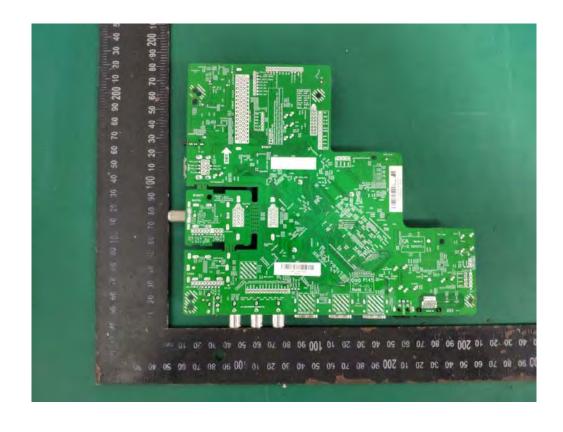






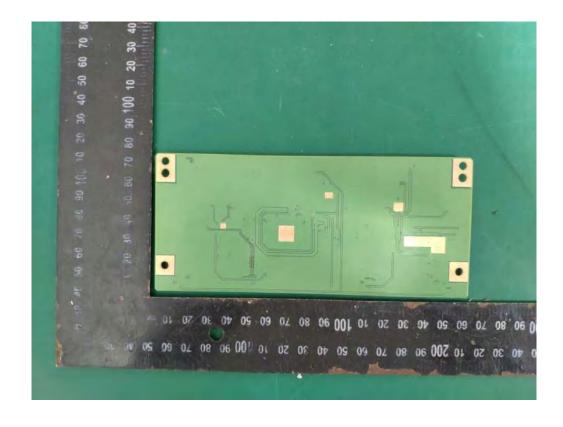








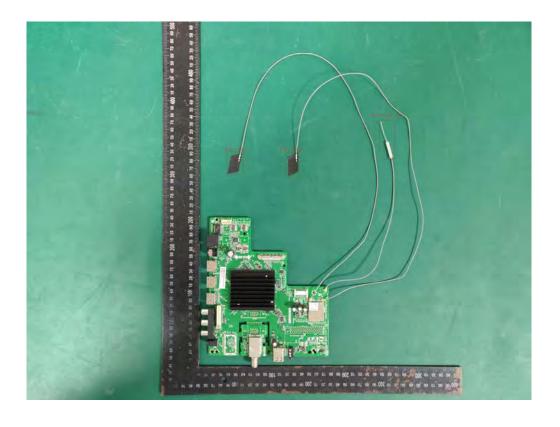


















End of Test Report

