

FCC ID : H38UT-86P

Test Procedure:

The test procedure used was ANSI/TAI/EIA – 603 STADNARD.

(1)Frequency: 794.900 MHz

Angle of Turn Table (°)	Spectrum Reading (dBm)	Corrected (dB)	Actually Value (dBm)	E. R. P. (mW)	8 Position of Average (mW)
0°	-5.23	-5.25	0.02	1.00	0.95
45°	-5.99	-5.25	-0.74	0.84	
90°	-4.31	-5.25	0.94	1.24	
135°	-4.63	-5.25	0.62	1.15	
180°	-5.10	-5.25	0.15	1.03	
225°	-20.53	-5.25	-15.28	0.03	
270°	-3.85	-5.25	1.40	1.38	
315°	-5.42	-5.25	-0.17	0.96	

(2)Frequency: 800.200 MHz

Angle of Turn Table (°)	Spectrum Reading (dBm)	Corrected (dB)	Actually Value (dBm)	E. R. P. (mW)	8 Position of Average (mW)
0°	-6.52	-5.25	-1.27	0.74	0.68
45°	-8.86	-5.25	-3.61	0.43	
90°	-8.12	-5.25	-2.87	0.51	
135°	-5.31	-5.25	-0.06	0.98	
180°	-5.33	-5.25	0.08	1.01	
225°	-13.63	-5.25	-8.38	0.14	
270°	-5.13	-5.25	0.12	1.02	
315°	-7.46	-5.25	-2.21	0.61	

(3)Frequency: 804.90 MHz

Angle of Turn Table (°)	Spectrum Reading (dBm)	Corrected (dB)	Actually Value (dB μ V/m)	E. R. P. (mW)	8 Position of Average (mW)
0°	-4.18	-5.29	1.07	1.27	1.31
45°	-6.79	-5.29	-1.50	0.70	
90°	-4.75	-5.29	0.54	1.13	
135°	-2.20	-5.29	3.09	2.03	
180°	-5.57	-5.29	-0.28	0.93	
225°	-7.23	-5.29	-1.94	0.63	
270°	-2.26	-5.29	3.03	2.00	
315°	-2.71	-5.29	2.58	1.81	

Measurement Result:**(Test Frequency: 794.900MHz , Horizontal , 30 MHz ~ 1 GHz)**

Test Conditions:

Testing room : Temperature : 26 °C Humidity : 73 % RH
Testing site : Temperature : 31 °C Humidity : 75 % RH

<i>Frequency</i>	<i>Reading Amplitude</i>	<i>Ant. Height</i>	<i>Table</i>	<i>Correction Factors</i>	<i>Corrected Power</i>	<i>Attenuated below the mean power</i>	<i>minimum Attenuation limit</i>
MHz	dBm	m	degree	dB	dBm	dB	dB

198.727	33.57	1.00	136	-4.65	-48.65	48.43	14.39
397.452	27.91	1.00	57	-6.09	-47.23	47.01	14.39

Note:

- Corrected Amplitude = Reading Amplitude – Correction Factors
- Mean Power = $10 \log (p) \text{ (dB)} = 10 \log (0.95) = -0.22$
Attenuated below the mean power = P – Corrected Power
(For example : $-0.22 - (-48.65) = 48.43 \text{ (dB)}$)
- Attenuation required = $43 + 10 \log (1.38 \text{ mW}) = 44.39$

Measurement Result:

(Test Frequency: 794.900MHz , Horizontal , 1GHz ~ 18GHz)

Radiated Emission				Correction Factors	Corrected Amplitude dBm	Attenuated below the mean power (dB)	minimum Attenuation Limit (dB)
Frequency (GHz)	Amplitude (dBm)	Ant. H. (cm)	Table (°)	(dB)			

1.589	-38.84	1.00	32	-4.67	-34.17	33.95	14.39
2.380	-31.80	1.00	224	1.32	-33.12	32.9	14.39
2.770	-31.16	1.00	34	2.69	-33.85	33.63	14.39
2.980	-16.33	1.00	48	3.42	-19.75	19.53	14.39

Measurement Result:

(Test Frequency: 794.900MHz , Vertical , 30MHz ~ 1GHz)

<i>Frequency</i>	<i>Reading Amplitude</i>	<i>Ant. Height</i>	<i>Table</i>	<i>Correction Factors</i>	<i>Corrected Power</i>	<i>Attenuated below the mean power</i>	<i>minimum Attenuation limit</i>
MHz	dBm	m	degree	dB/m	dBm	dB	dB

198.727	-49.06	3.96	8	-3.12	-45.94	45.72	14.39
397.451	-52.00	1.00	45	-7.52	-44.48	44.26	14.39

Measurement Result:

(Test Frequency: 794.900MHz , Vertical , 1GHz ~ 18GHz)

Radiated Emission				Correction Factors	Corrected Amplitude dBm	Attenuated below the mean power (dB)	minimum Attenuation Limit (dB)
Frequency (GHz)	Amplitude (dBm)	Ant. H. (cm)	Table (°)	(dB)			

1.589	-36.96	1.00	134	-5.64	-31.32	31.10	14.39
2.380	-38.38	1.00	327	-1.05	-37.33	37.11	14.39
2.770	-48.41	1.00	50	-0.94	-47.47	47.25	14.39
2.980	-36.41	1.00	94	-0.87	-35.54	35.32	14.39

Measurement Result:

(Test Frequency: 800.200MHz , Horizontal , 30MHz ~ 1GHz)

<i>Frequency</i>	<i>Reading Amplitude</i>	<i>Ant. Height</i>	<i>Table</i>	<i>Correction Factors</i>	<i>Corrected Power</i>	<i>Attenuated below the mean power</i>	<i>minimum Attenuation limit</i>
MHz	dBm	m	degree	dB/m	dBm	dB	dB

200.049	-49.77	1.00	150	-3.11	-46.66	44.99	13.08
400.100	-57.16	2.47	7	-7.54	-49.62	47.95	13.08
600.148	-48.32	1.00	84	-4.53	-43.79	42.12	13.08

Note:

- Corrected Amplitude = Reading Amplitude – Correction Factors
- Mean Power = $10 \log (p) \text{ (dB)} = 10 \log (0.68) = -1.67$
Attenuated below the mean power = P – Corrected Power
(For example 794.9MHz : $(-0.22) - (-48.65) = 48.43 \text{ (dB)}$)
- Attenuation required = $43 + 10 \log (1.02 \text{ mW}) = 13.08$

Measurement Result:

(Test Frequency: 800.200MHz , Horizontal , 1GHz ~ 18GHz)

Radiated Emission				Correction Factors	Corrected Amplitude dBm	Attenuated below the mean power (dB)	minimum Attenuation Limit (dB)
Frequency (GHz)	Amplitude (dBm)	Ant. H. (cm)	Table (°)	(dB)			
1.400	-34.13	1.00	9	-4.63	-29.5	27.83	13.08
1.600	-35.12	1.00	141	-5.91	-29.21	27.54	13.08
2.390	-32.49	1.00	95	-1.05	-31.44	29.77	13.08
2.790	-38.46	1.00	417	-0.93	-37.53	35.86	13.08
3.000	-29.81	1.00	206	-0.87	-28.94	27.27	13.08
3.190	-35.98	1.00	4	-1.49	-34.49	32.82	13.08
5.990	-74.26	1.00	189	-36.39	-37.87	36.2	13.08
6.800	-74.82	1.00	206	-38.08	-36.74	35.07	13.08
7.410	-79.39	1.00	40	-40.87	-38.52	36.85	13.08
7.610	-78.67	1.00	146	-41.35	-37.32	35.65	13.08

Measurement Result:

(Test Frequency: 800.200MHz , Vertical , 30MHz ~ 1GHz)

<i>Frequency</i>	<i>Reading Amplitude</i>	<i>Ant. Height</i>	<i>Table</i>	<i>Correction Factors</i>	<i>Corrected Power</i>	<i>Attenuated below the mean power</i>	<i>minimum Attenuation limit</i>
MHz	dBm	m	degree	dB/m	dBm	dB	dB

200.052	-54.20	2.44	56	-5.14	-49.06	47.39	13.08
600.152	-51.37	1.00	13	-5.33	-46.04	47.71	13.08

Measurement Result:

(Test Frequency: 800.200MHz , Vertical , 1GHz ~ 18GHz)

Radiated Emission				Correction Factors	Corrected Amplitude dBm	Attenuated below the mean power (dB)	minimum Attenuation Limit (dB)
Frequency (GHz)	Amplitude (dBm)	Ant. H. (cm)	Table (°)	(dB)			

1.400	-33.3	2.44	10	-3.79	-29.51	31.18	13.08
1.600	-40.35	1.00	58	-4.85	-35.5	37.17	13.08
2.390	-31.23	1.00	151	-1.36	-29.87	31.54	13.08
2.790	-24.6	1.00	206	-2.76	-21.84	23.51	13.08
3.000	-21.91	1.00	27	-3.49	-18.42	20.09	13.08
3.190	-32.83	1.00	116	-1.67	-31.16	32.83	13.08
5.990	-84.09	1.00	237	-35.72	-48.37	50.04	13.08
6.800	-81.3	1.00	308	-38.32	-42.98	44.65	13.08
7.000	-83.04	1.00	346	-37.67	-45.37	47.04	13.08
7.200	-84.8	1.00	15	-38.71	-46.09	47.76	13.08
7.410	-85.32	1.00	97	-39.80	-45.52	47.19	13.08
7.610	-81.22	1.00	2	-40.20	-41.02	42.69	13.08

Measurement Result:

(Test Frequency: 804.900MHz , Horizontal , 30MHz ~ 1GHz)

<i>Frequency</i>	<i>Reading Amplitude</i>	<i>Ant. Height</i>	<i>Table</i>	<i>Correction Factors</i>	<i>Corrected Power</i>	<i>Attenuated below the mean power</i>	<i>minimum Attenuation limit</i>
MHz	dBm	m	degree	dB/m	dBm	dB	dB

201.227	-47.97	1.00	150	-3.07	-44.90	43.73	16.07
402.452	-47.68	1.00	28	-7.42	-40.26	37.42	16.07

Note:

- Corrected Amplitude = Reading Amplitude – Correction Factors
- Mean Power = $10 \log (p) \text{ (dB)} = 10 \log (1.31) = 1.17$
 Attenuated below the mean power = P – Corrected Power
 (For example 794.9MHz :(-0.22) – (- 48.65)) = 48.43 (dB))
- Attenuation required = 43 + $10 \log (2.03 \text{ mW}) = 16.07$

Measurement Result:

(Test Frequency: 804.900MHz , Horizontal , 1GHz ~ 18GHz)

Radiated Emission				Correction Factors	Corrected Amplitude dBm	Attenuated below the mean power (dB)	minimum Attenuation Limit (dB)
Frequency (GHz)	Amplitude (dBm)	Ant. H. (cm)	Table (°)	(dB)			

1.207	-42.12	1.00	64	-4.51	-37.61	36.44	16.07
1.609	-36.93	1.00	150	-5.78	-31.15	29.98	16.07
2.010	-46.94	1.00	29	-1.67	-45.27	44.1	16.07
2.410	-42.24	1.00	146	-1.04	-41.2	40.03	16.07
2.810	-39.19	1.00	228	-0.92	-38.27	37.1	16.07
3.010	-41.17	1.00	339	-0.90	-40.27	39.1	16.07
3.220	-40.39	1.00	8	-1.59	-38.8	37.63	16.07

Measurement Result:

(Test Frequency: 804.900MHz , Vertical , 30MHz ~ 1GHz)

<i>Frequency</i>	<i>Reading Amplitude</i>	<i>Ant. Height</i>	<i>Table</i>	<i>Correction Factors</i>	<i>Corrected Power</i>	<i>Attenuated below the mean power</i>	<i>minimum Attenuation limit</i>
MHz	dBm	m	degree	dB/m	dBm	dB	dB

201.226	-52.68	2.47	4	-5.05	-47.63	46.46	16.07
402.452	-48.39	1.00	9	-6.11	-42.28	41.11	16.07

Measurement Result:

(Test Frequency: 804.900MHz , Vertical , 1GHz ~ 18GHz)

Radiated Emission				Correction Factors	Corrected Amplitude dBm	Attenuated below the mean power (dB)	minimum Attenuation Limit (dB)
Frequency (GHz)	Amplitude (dBm)	Ant. H. (cm)	Table (°)	(dB)			

1.207	-46.09	1.00	35	-3.15	-42.94	44.61	16.07
1.609	-39.08	1.00	35	-4.71	-34.37	36.04	16.07
2.010	-46.39	1.00	39	-0.98	-45.41	47.08	16.07
2.410	-34.30	1.00	167	1.43	-35.73	37.40	16.07
2.810	-24.68	1.00	229	2.83	-27.51	29.18	16.07
3.010	-25.58	1.00	64	3.40	-28.98	30.65	16.07
3.220	-32.61	1.00	181	1.39	-34.00	35.67	16.07
3.420	-34.49	1.00	38	-0.53	-33.96	35.63	16.07
3.620	-71.65	1.00	239	-33.09	-33.09	37.39	16.07
