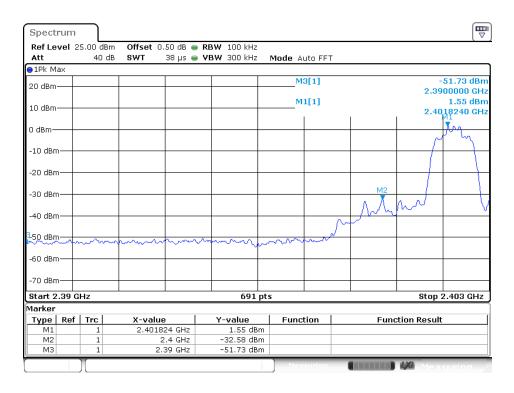
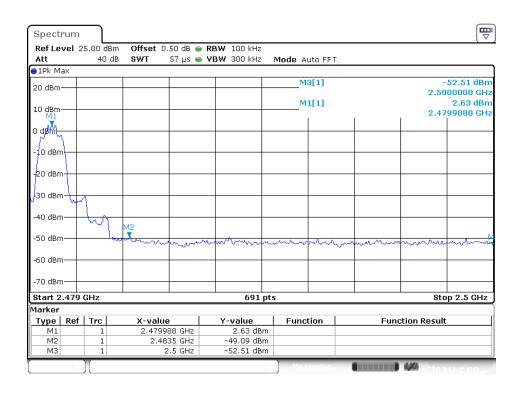


8DPSK







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Radiated Band Edge Result

Note:

- 1. Emissions attenuated more than 20 dB below the permissible value are not reported.
- 2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

3. Display the measurement of peak values.

Test Procedure:

The EUT and its simulators are placed on a turntable, which is 1.5 meter high above ground(Above 1GHz). The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bi-log antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the EUT location must be manipulated according to ANSI C63.10:2013 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

Let the EUT work in TX (Hopping off, Hopping on) modes measure it. We select 2402MHz, 2480MHz TX frequency to transmit(Hopping off mode). We select 2402-2480MHz TX frequency to transmit(Hopping on mode).

During the radiated emission test, the spectrum analyzer was set with the following configurations:

- 1. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- 3.All modes of operation were investigated and the worst-case emissions are reported.



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Non-hopping mode



Job No.: JC #61

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Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 9/16/31

Engineer Signature: JAMES

Distance: 3m

Standard: FCC PK
Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

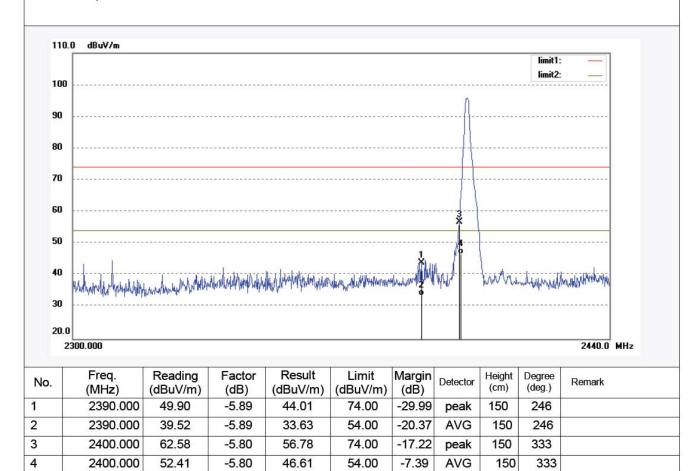
EUT: OttoTurntable

Mode: TX 2402MHz(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608





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Job No.: JC #62 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/20/00

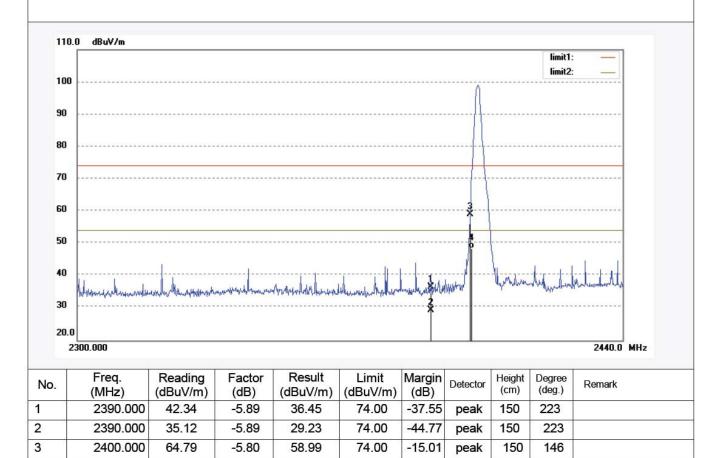
EUT: Otto Turntable Engineer Signature: JAMES

Mode: TX 2402MHz(GFSK) Distance: 3m

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



54.00

-5.57

AVG

150

146

Note: Average measurement with peak detection at No.2&4

-5.80

48.43

54.23

2400.000

4



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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: JC #63 Polarization: Horizontal
Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/25/19

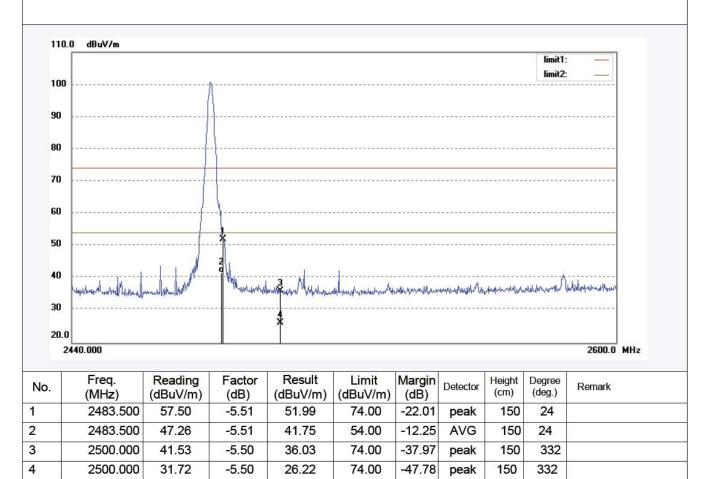
EUT: Otto Turntable Engineer Signature: JAMES

Mode: TX 2480MHz(GFSK) Distance: 3m

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608





Site: 1# Chamber

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Polarization: Vertical

> Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 9/38/50

Engineer Signature: **JAMES**

Distance: 3m

Job No.: JC #64 Standard: FCC PK

Test item: Radiation Test

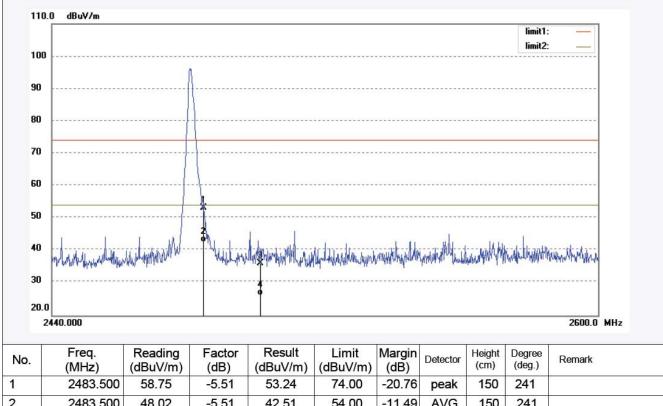
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable Mode: TX 2480MHz(GFSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	58.75	-5.51	53.24	74.00	-20.76	peak	150	241	
2	2483.500	48.02	-5.51	42.51	54.00	-11.49	AVG	150	241	
3	2500.000	41.57	-5.50	36.07	74.00	-37.93	peak	150	111	
4	2500.000	31.63	-5.50	26.13	54.00	-27.87	AVG	150	111	



Site: 1# Chamber

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Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 9/42/57

Engineer Signature: JAMES

Distance: 3m

Job No.: JC #65 Polarizati
Standard: FCC PK Power Sc

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

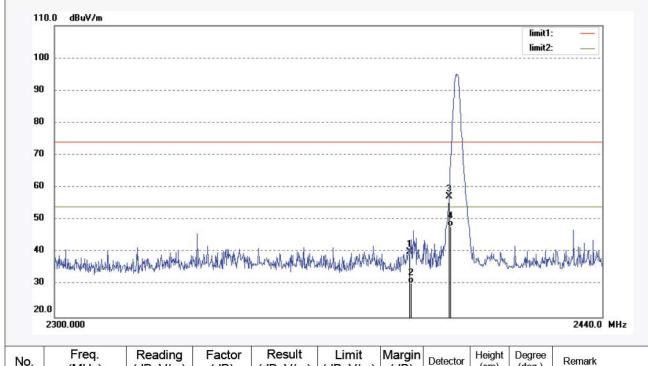
EUT: Otto Turntable

Mode: TX 2402MHz(π/4 DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	46.04	-5.89	40.15	74.00	-33.85	peak	150	154	
2	2390.000	36.25	-5.89	30.36	54.00	-23.64	AVG	150	154	
3	2400.000	63.15	-5.80	57.35	74.00	-16.65	peak	150	222	
4	2400.000	53.74	-5.80	47.94	54.00	-6.06	AVG	150	222	



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Job No.: JC #66 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz
Test item: Radiation Test Date: 18/01/12/

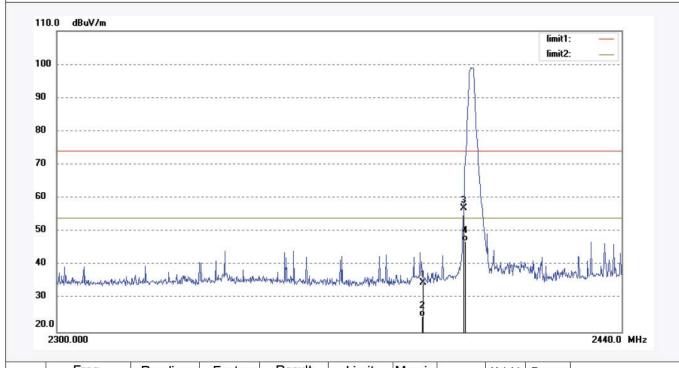
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/45/58

EUT: Otto Turntable Engineer Signature: JAMES

Mode: TX 2402MHz(π /4 DQPSK) Distance: 3m Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	40.65	-5.89	34.76	74.00	-39.24	peak	150	36	
2	2390.000	30.47	-5.89	24.58	54.00	-29.42	AVG	150	36	
3	2400.000	62.92	-5.80	57.12	74.00	-16.88	peak	150	113	
4	2400.000	52.94	-5.80	47.14	54.00	-6.86	AVG	150	113	



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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: JC #67 Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 9/49/54

Engineer Signature: JAMES

Distance: 3m

Standard: FCC PK

EUT: Otto Turntable

Test item: Radiation Test

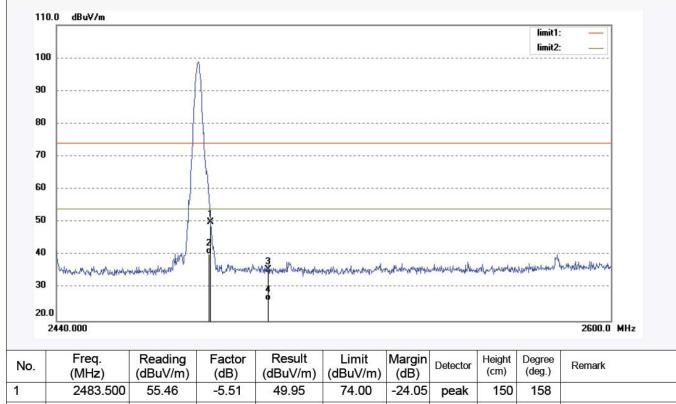
Mode: TX 2480MHz(π/4 DQPSK)

Temp.(C)/Hum.(%) 25 C / 55 %

CR6033A-GY Model:

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	55.46	-5.51	49.95	74.00	-24.05	peak	150	158	
2	2483.500	45.78	-5.51	40.27	54.00	-13.73	AVG	150	158	
3	2500.000	41.18	-5.50	35.68	74.00	-38.32	peak	150	246	
4	2500.000	31.64	-5.50	26.14	54.00	-27.86	AVG	150	246	



Site: 1# Chamber

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Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 9/51/49

Engineer Signature: JAMES

Distance: 3m

Job No.: JC #68 Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

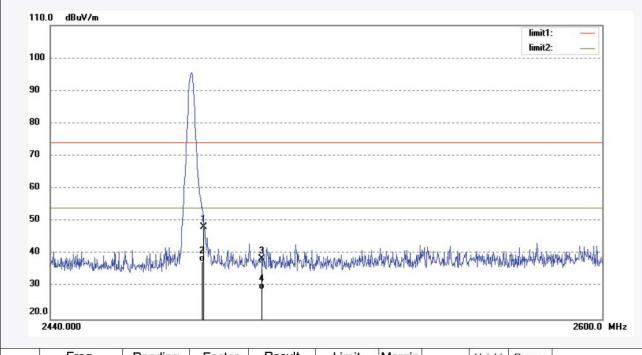
EUT: Otto Turntable

Mode: TX 2480MHz(π/4 DQPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	53.77	-5.51	48.26	74.00	-25.74	peak	150	163	
2	2483.500	43.26	-5.51	37.75	54.00	-16.25	AVG	150	163	
3	2500.000	44.15	-5.50	38.65	74.00	-35.35	peak	150	115	
4	2500.000	34.67	-5.50	29.17	54.00	-24.83	AVG	150	115	



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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: JC #69 Polarization: Vertical

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/55/07

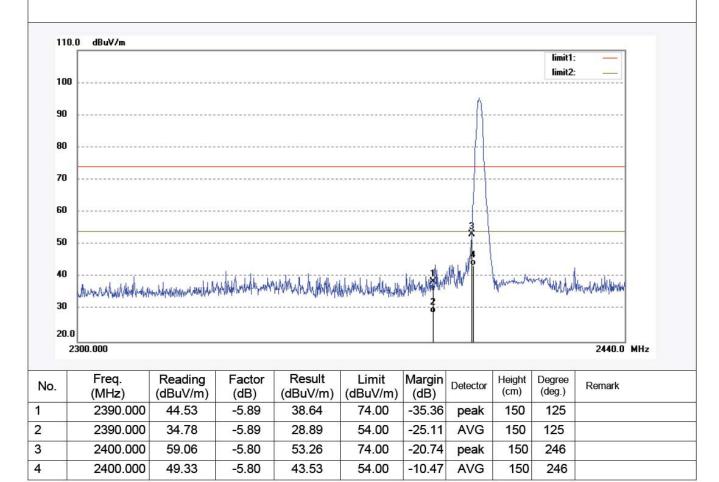
EUT: Otto Turntable Engineer Signature: JAMES

Mode: TX 2402MHz(8DPSK) Distance: 3m

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608





Site: 1# Chamber

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Job No.: JC #70 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/57/00

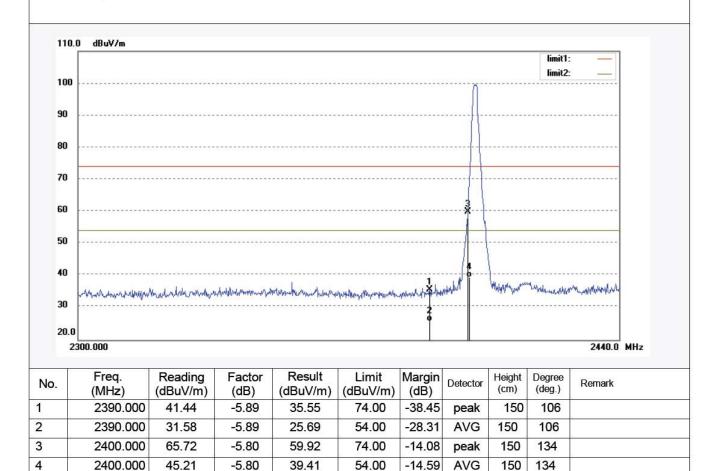
EUT: Otto Turntable Engineer Signature: JAMES

Mode: TX 2402MHz(8DPSK) Distance: 3m

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608





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Job No.: JC #71 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz

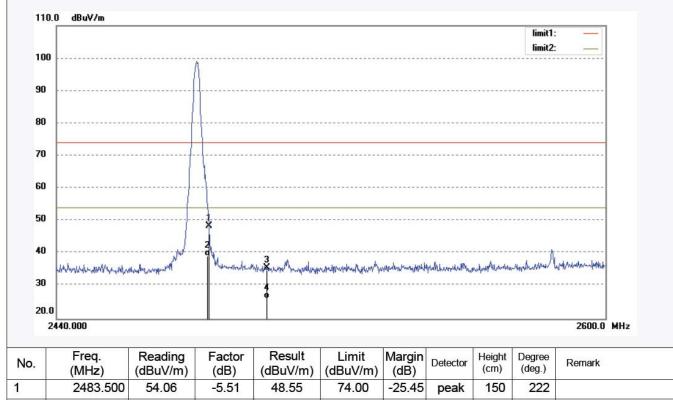
Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 9/59/51

EUT: Otto Turntable Engineer Signature: JAMES

Mode: TX 2480MHz(8DPSK) Distance: 3m Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	54.06	-5.51	48.55	74.00	-25.45	peak	150	222	
2	2483.500	44.71	-5.51	39.20	54.00	-14.80	AVG	150	222	
3	2500.000	41.06	-5.50	35.56	74.00	-38.44	peak	150	34	
4	2500.000	31.69	-5.50	26.19	54.00	-27.81	AVG	150	34	



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Job No.: JC #72

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Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 10/02/08

Engineer Signature: JAMES

Distance: 3m

Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 %

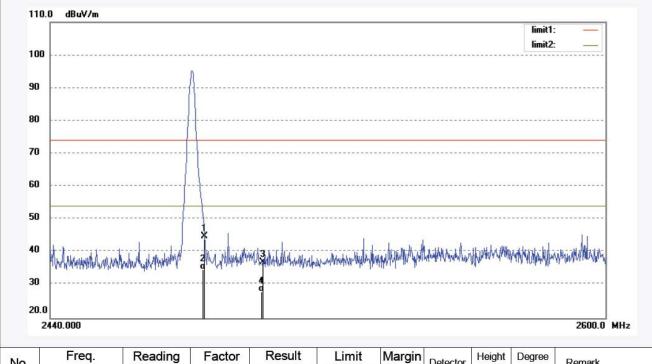
EUT: Otto Turntable

Mode: TX 2480MHz(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	50.31	-5.51	44.80	74.00	-29.20	peak	150	254	
2	2483.500	40.25	-5.51	34.74	54.00	-19.26	AVG	150	254	
3	2500.000	42.58	-5.50	37.08	74.00	-36.92	peak	150	126	
4	2500.000	33.48	-5.50	27.98	54.00	-26.02	AVG	150	126	



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Hopping mode



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Job No.: JC #73 Polarization: Vertical

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 10/09/04

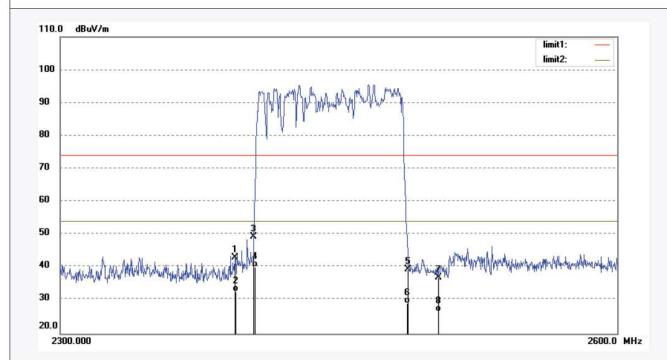
EUT: Otto Turntable Engineer Signature: JAMES

Mode: HOPPONG(GFSK) Distance: 3m

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	48.95	-5.89	43.06	74.00	-30.94	peak	150	121	
2	2390.000	38.64	-5.89	32.75	54.00	-21.25	AVG	150	121	
3	2400.000	55.07	-5.80	49.27	74.00	-24.73	peak	150	264	
4	2400.000	45.85	-5.80	40.05	54.00	-13.95	AVG	150	264	
5	2483.500	44.96	-5.51	39.45	74.00	-34.55	peak	150	114	
6	2483.500	34.57	-5.51	29.06	54.00	-24.94	AVG	150	114	
7	2500.000	42.46	-5.50	36.96	74.00	-37.04	peak	150	331	
8	2500.000	32.18	-5.50	26.68	54.00	-27.32	AVG	150	331	



Site: 1# Chamber

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Job No.: JC #74 Polarization: Horizontal

 Standard:
 FCC PK
 Power Source:
 AC 120V/60Hz

 Test item:
 Radiation Test
 Date: 18/01/12/

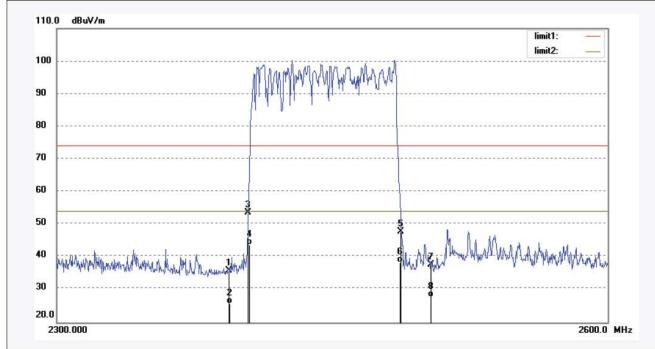
 Temp.(C)/Hum.(%)
 25 C / 55 %
 Time: 10/15/13

EUT: Otto Turntable Engineer Signature: JAMES

Mode: HOPPONG(GFSK) Distance: 3m Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.75	-5.89	35.86	74.00	-38.14	peak	150	10	
2	2390.000	31.59	-5.89	25.70	54.00	-28.30	AVG	150	10	
3	2400.000	59.44	-5.80	53.64	74.00	-20.36	peak	150	36	
4	2400.000	49.61	-5.80	43.81	54.00	-10.19	AVG	150	36	
5	2483.500	53.29	-5.51	47.78	74.00	-26.22	peak	150	111	
6	2483.500	43.87	-5.51	38.36	54.00	-15.64	AVG	150	111	
7	2500.000	43.23	-5.50	37.73	74.00	-36.27	peak	150	36	
8	2500.000	33.26	-5.50	27.76	54.00	-26.24	AVG	150	36	



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Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: JC #75 Polarization: Horizontal

Standard: FCC PK Power Source: AC 120V/60Hz

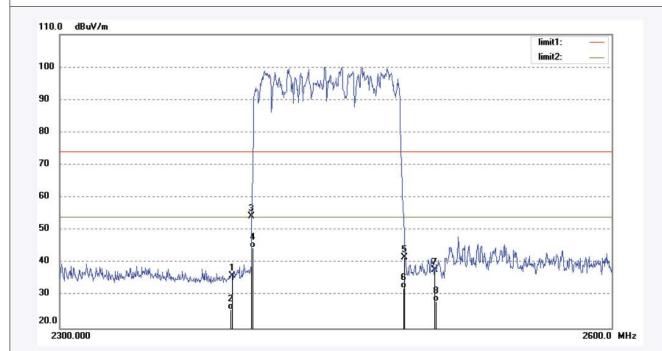
Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 10/20/23

EUT: Otto Turntable Engineer Signature: JAMES

Mode: HOPPONG(π /4 DQPSK) Distance: 3m Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



	32									
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.94	-5.89	36.05	74.00	-37.95	peak	150	102	
2	2390.000	31.59	-5.89	25.70	54.00	-28.30	AVG	150	102	
3	2400.000	60.15	-5.80	54.35	74.00	-19.65	peak	150	111	
4	2400.000	50.43	-5.80	44.63	54.00	-9.37	AVG	150	111	
5	2483.500	47.27	-5.51	41.76	74.00	-32.24	peak	150	146	
6	2483.500	37.84	-5.51	32.33	54.00	-21.67	AVG	150	146	
7	2500.000	43.47	-5.50	37.97	74.00	-36.03	peak	150	132	
8	2500.000	33.68	-5.50	28.18	54.00	-25.82	AVG	150	132	



Site: 1# Chamber Tel:+86-0755-26503290

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Model:

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Job No.: JC #76 Polarization: Vertical

Standard: FCC PK Power Source: AC 120V/60Hz

Test item: Radiation Test Date: 18/01/12/
Temp.(C)/Hum.(%) 25 C / 55 % Time: 10/26/51

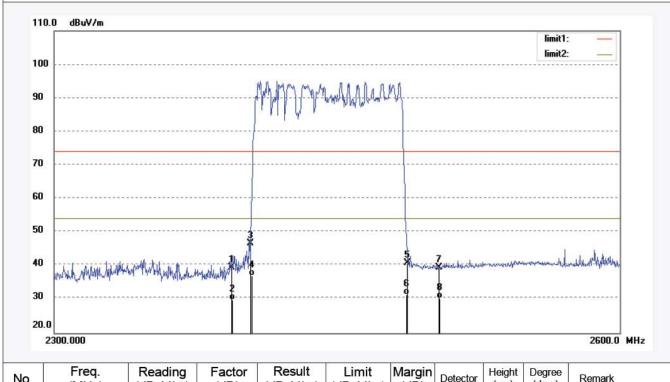
EUT: Otto Turntable Engineer Signature: JAMES

Mode: HOPPONG($\pi/4$ DQPSK) Distance: 3m

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608

CR6033A-GY



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	45.26	-5.89	39.37	74.00	-34.63	peak	150	25	
2	2390.000	35.62	-5.89	29.73	54.00	-24.27	AVG	150	25	
3	2400.000	52.57	-5.80	46.77	74.00	-27.23	peak	150	34	
4	2400.000	42.68	-5.80	36.88	54.00	-17.12	AVG	150	34	
5	2483.500	46.31	-5.51	40.80	74.00	-33.20	peak	150	111	
6	2483.500	36.94	-5.51	31.43	54.00	-22.57	AVG	150	111	
7	2500.000	45.03	-5.50	39.53	74.00	-34.47	peak	150	332	
8	2500.000	35.66	-5.50	30.16	54.00	-23.84	AVG	150	332	



Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

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Standard: FCC PK

ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

> Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 10/37/02

Engineer Signature: **JAMES**

Distance: 3m

Job No.: JC #77

Test item: Radiation Test

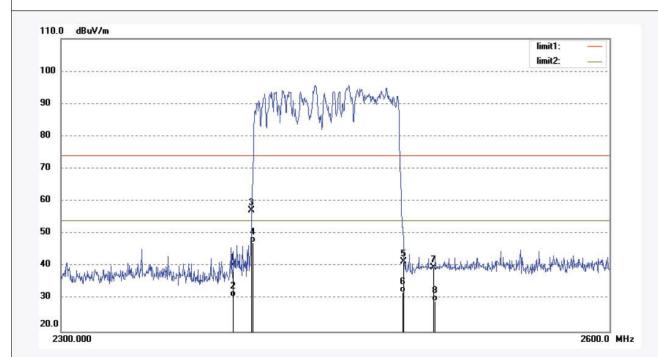
Temp.(C)/Hum.(%) 25 C / 55 %

EUT: Otto Turntable HOPPONG(8DPSK) Mode:

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Note: Report NO.:ATE20172608



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	46.33	-5.89	40.44	74.00	-33.56	peak	150	241	
2	2390.000	36.57	-5.89	30.68	54.00	-23.32	AVG	150	241	
3	2400.000	63.11	-5.80	57.31	74.00	-16.69	peak	150	311	
4	2400.000	53.11	-5.80	47.31	54.00	-6.69	AVG	150	311	
5	2483.500	47.01	-5.51	41.50	74.00	-32.50	peak	150	146	
6	2483.500	37.59	-5.51	32.08	54.00	-21.92	AVG	150	146	
7	2500.000	45.26	-5.50	39.76	74.00	-34.24	peak	150	164	
8	2500.000	34.87	-5.50	29.37	54.00	-24.63	AVG	150	164	



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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: JC #78 Polarization: Horizontal Standard: FCC PK

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 55 % EUT: Otto Turntable

Mode: HOPPONG(8DPSK)

Model: CR6033A-GY

Manufacturer: TIMSEN INTERNATIONAL LIMITED

Report NO.:ATE20172608

Power Source: AC 120V/60Hz

Date: 18/01/12/ Time: 10/41/15

Engineer Signature: JAMES

Distance: 3m

100		limit1: — limit2: —
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No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2390.000	41.10	-5.89	35.21	74.00	-38.79	peak	150	113	
2	2390.000	31.42	-5.89	25.53	54.00	-28.47	AVG	150	113	
3	2400.000	60.32	-5.80	54.52	74.00	-19.48	peak	150	36	
4	2400.000	50.68	-5.80	44.88	54.00	-9.12	AVG	150	36	
5	2483.500	56.50	-5.51	50.99	74.00	-23.01	peak	150	120	
6	2483.500	46.77	-5.51	41.26	54.00	-12.74	AVG	150	120	
7	2500.000	44.94	-5.50	39.44	74.00	-34.56	peak	150	46	
8	2500.000	34.51	-5.50	29.01	54.00	-24.99	AVG	150	46	



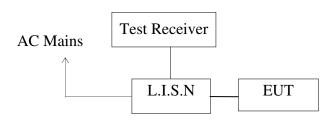


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12.AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

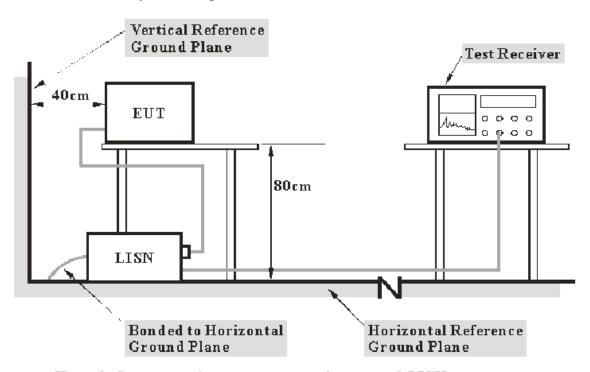
12.1.Block Diagram of Test Setup

12.1.1.Block diagram of connection between the EUT and simulators



(EUT: Otto Turntable)

12.1.2.Test System Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.



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12.2. Power Line Conducted Emission Measurement Limits

Frequency	Limit $dB(\mu V)$				
(MHz)	Quasi-peak Level	Average Level			
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *			
0.50 - 5.00	56.0	46.0			
5.00 - 30.00	60.0	50.0			

NOTE1: The lower limit shall apply at the transition frequencies.

NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

12.3. Configuration of EUT on Measurement

The equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

12.4. Operating Condition of EUT

- 12.4.1. Setup the EUT and simulator as shown as Section 12.1.
- 12.4.2. Turn on the power of all equipment.
- 12.4.3.Let the EUT work in test mode and measure it.

12.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines 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 Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.



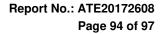
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12.6.Data Sample

Frequency	Transducer	QuasiPeak	Average	QuasiPeak	Average	QuasiPeak	Average	Remark
(MHz)	value	Level	Level	Limit	Limit	Margin	Margin	(Pass/Fail)
	(dB)	$(dB\mu V)$	(dBµV)	$(dB\mu V)$	$(dB\mu V)$	(dB)	(dB)	
10.51000	11.6	42.60	27.90	60.0	50.0	-17.4	-22.1	Pass

$$\begin{split} & Frequency(MHz) = Emission \ frequency \ in \ MHz \\ & Transducer \ value(dB) = Insertion \ loss \ of \ LISN + Cable \ Loss \\ & Level(dB\mu V) = Quasi-peak \ Reading/Average \ Reading + Transducer \ value \\ & Limit \ (dB\mu V) = Limit \ stated \ in \ standard \\ & Margin = Limit \ (dB\mu V) - Level \ (dB\mu V) \end{split}$$

Calculation Formula: Margin = Limit ($dB\mu V$) - Level ($dB\mu V$)





12.7.Power Line Conducted Emission Measurement Results

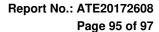
PASS.

The frequency range from 150kHz to 30MHz is checked.

Test mode: BT communicating (AC 120V/60Hz) EUT mode: CR6033A-GY									
MEASUREMENT			608-01	_fin"					
2018-1-2 16:4	2								
Frequency MHz	Level dBµV		Limit dBµV		Detector	Line	PE		
0.348000 0.870000 2.076000 5.766000 20.161500	42.10 35.40 27.80 19.40 10.70	10.9 11.1 11.3 11.5 11.7	59 56 56 60 60	16.9 20.6 28.2 40.6 49.3	QР	L1 L1 L1 L1 L1	GNI GNI GNI GNI GNI		
MEASUREMENT	RESULT	: "HP-2	608-01	_fin2"					
2018-1-2 16:4 Frequency	2 Level	Transd	Limit	Margin	Detector	Line	PE		
MHz	dBµV	dB	dΒμV	dB	Detector	птие	FI		
0.289500 0.775500 1.207500 2.053500 6.180000 24.000000	26.60 31.60 26.90 22.60 14.00 9.30	10.9 11.1 11.2 11.3 11.5	51 46 46 46 50 50	23.9 14.4 19.1 23.4 36.0 40.7	AV AV	L1 L1 L1 L1 L1	GNI GNI GNI GNI GNI GNI		
MEASUREMENT	RESULT	: "HP-2	608-02	_fin"					
2018-1-2 16:4 Frequency MHz	7 Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PI		
0.231000 0.402000 0.906000 2.427000 6.135000 28.810500	44.70 37.80 33.30 25.60 19.50 11.20	10.9 11.0 11.1 11.3 11.5 11.8	62 58 56 56 60	17.7 20.0 22.7 30.4 40.5 48.8	QP QP QP QP QP QP	N N N N N	GNI GNI GNI GNI GNI		
MEASUREMENT	RESULT	: "HP-2	608-02	_fin2"					
2018-1-2 16:4 Frequency MHz	7 Level dBμV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PI		
0.321000 0.775500 1.383000 2.040000 5.275500 24.000000	25.70 31.60 26.00 22.90 14.20 10.70	10.9 11.1 11.2 11.3 11.4 11.7	50 46 46 46 50 50	24.0 14.4 20.0 23.1 35.8 39.3	AV AV AV AV AV	N N N N N	GNI GNI GNI GNI GNI		

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.





ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

Otto Turntable M/N:CR6033A-GY TIMSEN INTERNATIONAL LIMITED Manufacturer:

Operating Condition: BT communicating Test Site: 2#Shielding Room

Operator: JAMES

Test Specification: L 120V/60Hz

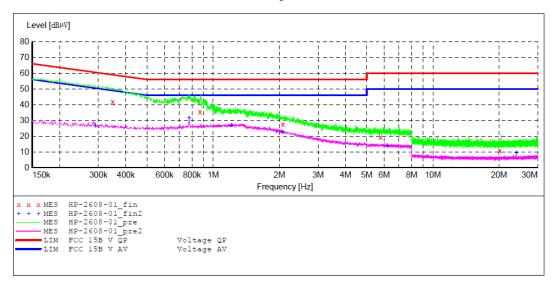
Comment: Report NO.:ATE20172608 2018-1-2 / 16:39:11 Start of Test:

SCAN TABLE: "V 150K-30MHz fin"
Short Description: _SUB_STD_VTERM2 1.70

Start Stop Step Detector Meas. IF Transducer Bandw. Time

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kH NSLK8126 2008 QuasiPeak 1.0 s 4.5 kHz 9 kHz

Average

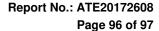


MEASUREMENT RESULT: "HP-2608-01 fin"

2018-1-2 16:42 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.348000	42.10	10.9	59	16.9	QP	L1	GND
0.870000	35.40	11.1	56	20.6	QP	L1	GND
2.076000	27.80	11.3	56	28.2	QP	L1	GND
5.766000	19.40	11.5	60	40.6	QP	L1	GND
20.161500	10.70	11.7	60	49.3	QP	L1	GND

MEASUREMENT RESULT: "HP-2608-01_fin2"

2018-1-2 16 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.289500	26.60	10.9	51	23.9	AV	L1	GND
0.775500	31.60	11.1	46	14.4	AV	L1	GND
1.207500	26.90	11.2	46	19.1	AV	L1	GND
2.053500	22.60	11.3	46	23.4	AV	L1	GND
6.180000	14.00	11.5	50	36.0	AV	L1	GND
24.000000	9.30	11.7	50	40.7	AV	L1	GND





ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: Otto Turntable M/N:CR6033A-GY Manufacturer: TIMSEN INTERNATIONAL LIMITED

Operating Condition: BT communicating Test Site: 2#Shielding Room JAMES Operator:

Test Specification: N

120V/60Hz Comment:

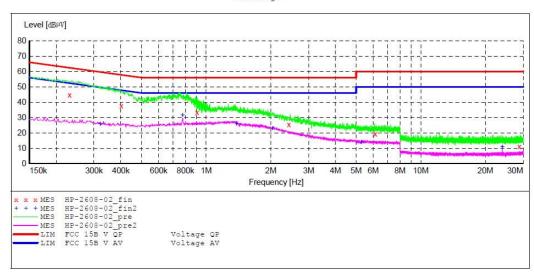
Report NO.:ATE20172608 2018-1-2 / 16:43:20 Start of Test:

SCAN TABLE: "V 150K-30MHz fin"
Short Description: _SUB_STD_VTERM2 1.70

Stop Start Step Detector Meas. IF Transducer Bandw.

Frequency Frequency Width 150.0 kHz 30.0 MHz 4.5 kHz Time 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average

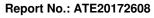


MEASUREMENT RESULT: "HP-2608-02 fin"

2	2018-1-2 16:47 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
	0.231000	44.70	10.9	62	17.7	QP	N	GND
	0.402000	37.80	11.0	58	20.0	QP	N	GND
	0.906000	33.30	11.1	56	22.7	QP	N	GND
	2.427000	25.60	11.3	56	30.4	QP	N	GND
	6.135000	19.50	11.5	60	40.5	QP	N	GND
	28.810500	11.20	11.8	60	48.8	OP	N	GND

MEASUREMENT RESULT: "HP-2608-02_fin2"

2018-1-2 16:47 Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.321000	25.70	10.9	50	24.0	AV	N	GND
0.775500	31.60	11.1	46	14.4	AV	N	GND
1.383000	26.00	11.2	46	20.0	AV	N	GND
2.040000	22.90	11.3	46	23.1	AV	N	GND
5.275500	14.20	11.4	50	35.8	AV	N	GND
24.000000	10.70	11.7	50	39.3	AV	N	GND



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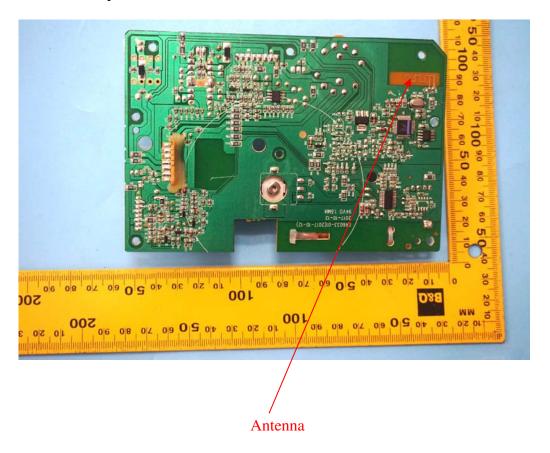
13.ANTENNA REQUIREMENT

13.1.The Requirement

According to Section 15.203, 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.

13.2.Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. The Max Antenna gain of EUT is 2dBi. Therefore, the equipment complies with the antenna requirement of Section 15.203.



***** End of Test Report *****