

Prüfbericht - Nr.: 17043757 001
Test Report No.

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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: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1134

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 48 %

EUT: Ringly

Mode: TX 2480MHz

Model: Ringly

Manufacturer: Ringly Co.,Ltd.

Polarization: Horizontal

Power Source: DC 3.7V

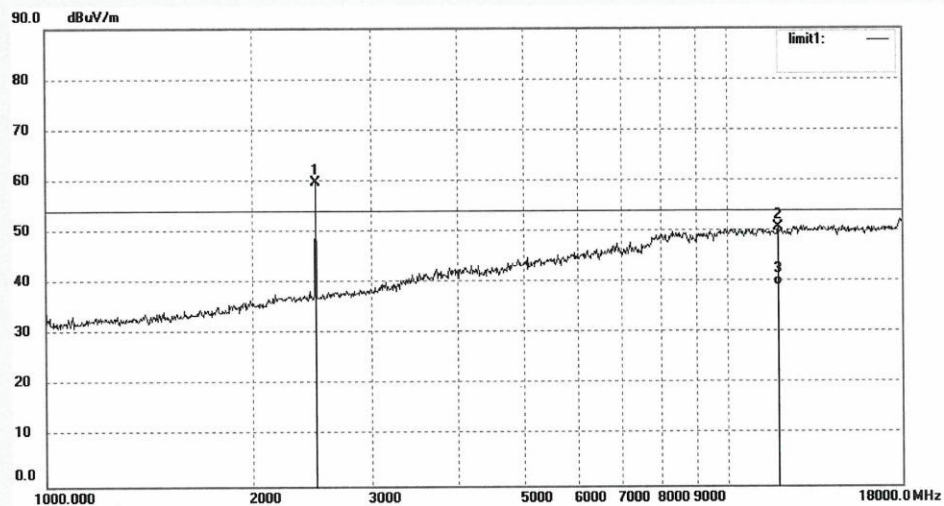
Date: 2014/10/16

Time:

Engineer Signature:

Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2480.000	67.06	-7.37	59.69	/	/	peak			
2	11803.280	38.66	12.05	50.71	74.00	-23.29	peak			
3	11803.280	27.31	12.05	39.36	54.00	-14.64	AVG			

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

Site: 1# Chamber

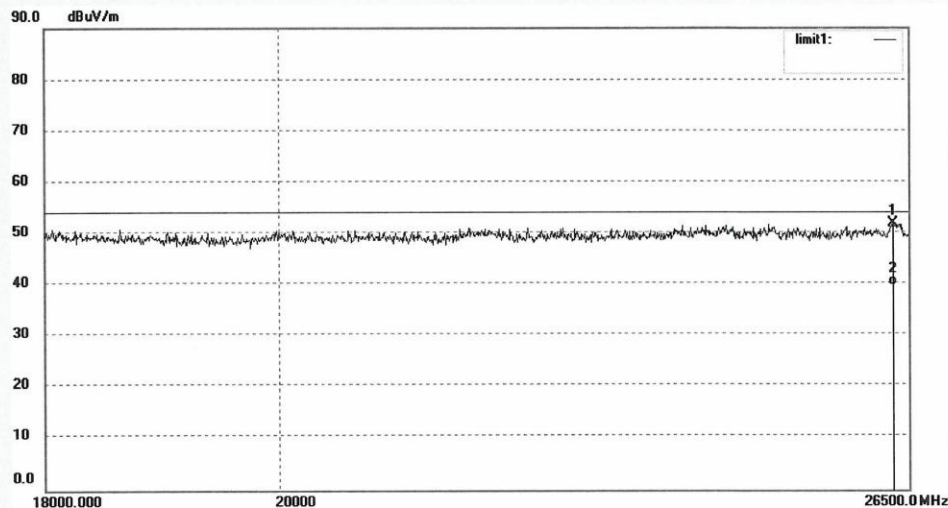
Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: LAN2014 #1150
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: TX 2402MHz
Model: Ringly
Manufacturer: Ringly Co.,Ltd.

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26315.783	35.30	16.50	51.80	74.00	-22.20	peak			
2	26315.783	23.13	16.50	39.63	54.00	-14.37	AVG			

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Site: 1# Chamber

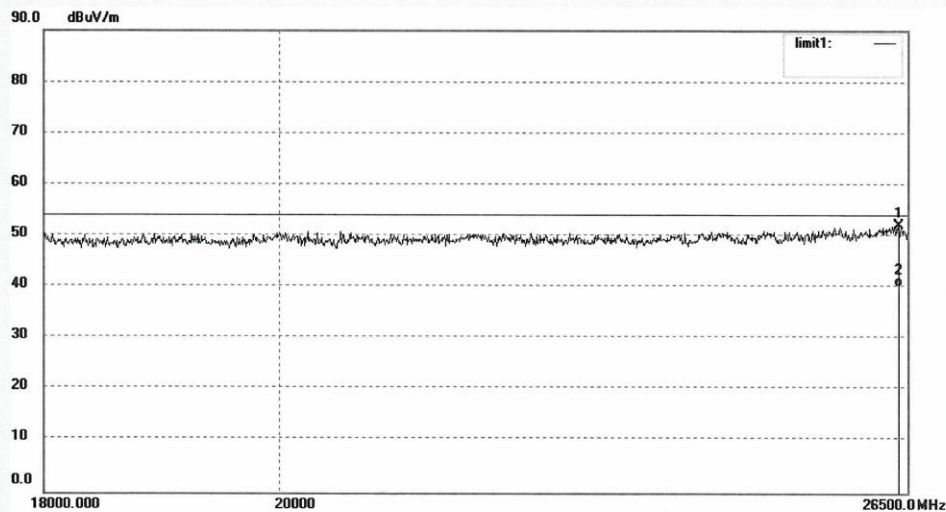
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1151
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: TX 2402MHz
Model: Ringly
Manufacturer: Ringly Co.,Ltd.

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26397.499	35.04	16.97	52.01	74.00	-21.99	peak			
2	26397.499	23.30	16.97	40.27	54.00	-13.73	AVG			

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ACCURATE TECHNOLOGY CO., LTD.

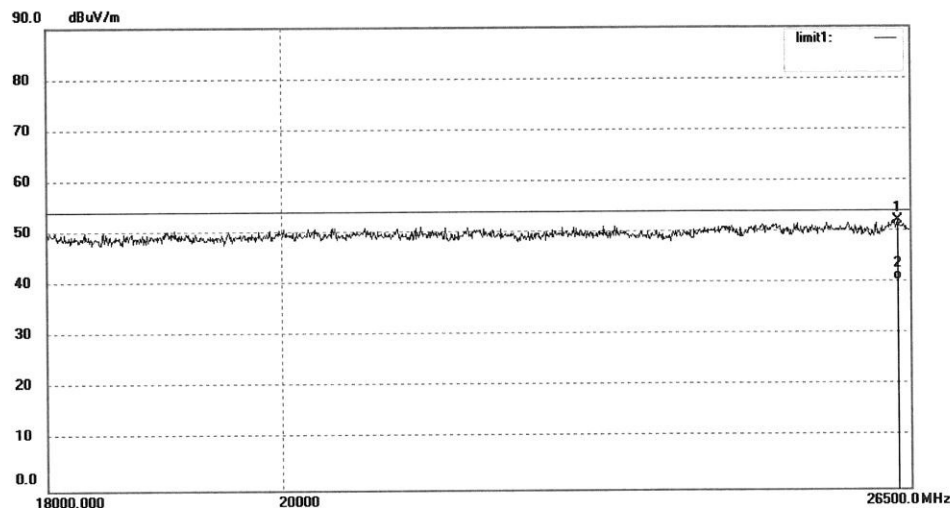
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #1152
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: TX 2440MHz
Model: Ringly
Manufacturer: Ringly Co.,Ltd.

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26356.609	35.10	17.00	52.10	74.00	-21.90	peak			
2	26356.609	23.35	17.00	40.35	54.00	-13.65	AVG			

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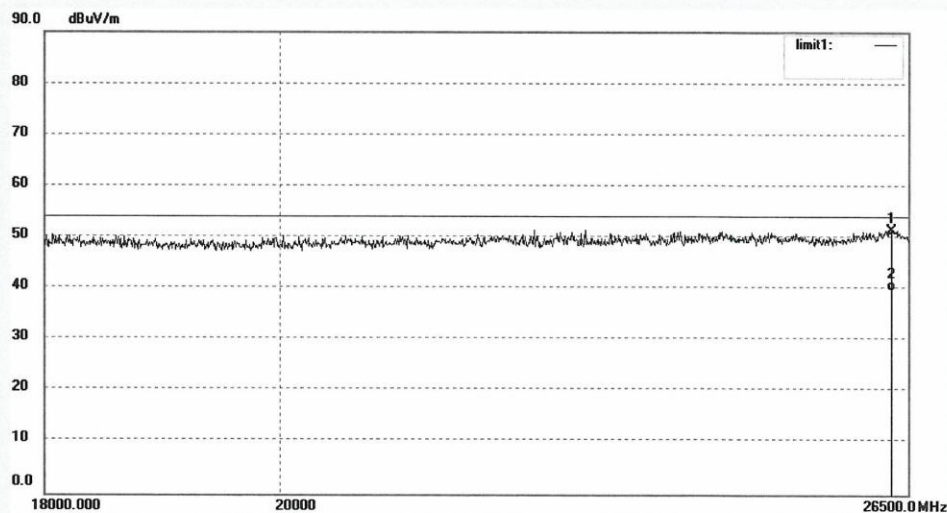
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #1153
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: TX 2440MHz
Model: Ringly
Manufacturer: Ringly Co.,Ltd.

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26305.586	34.93	16.50	51.43	74.00	-22.57	peak			
2	26305.586	23.26	16.50	39.76	54.00	-14.24	AVG			

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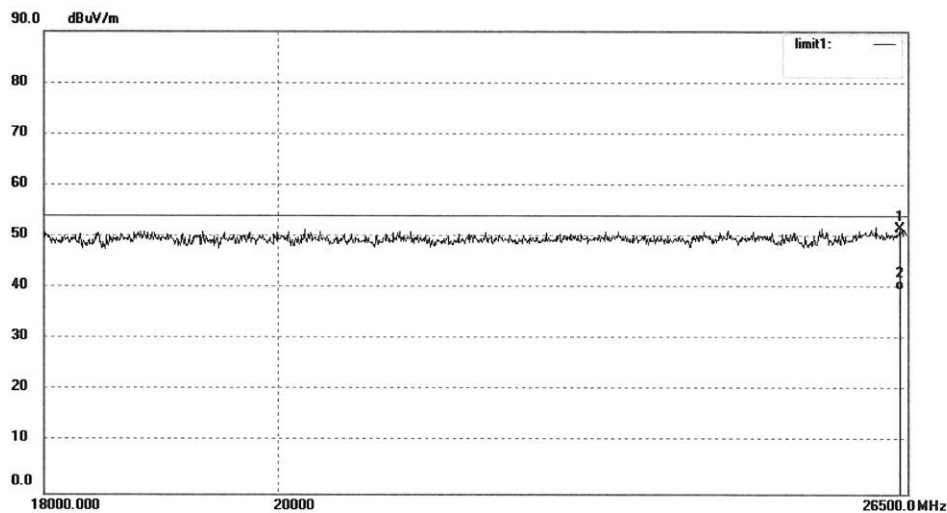
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #1158
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: TX 2480MHz
Model: Ringly
Manufacturer: Ringly Co.,Ltd.

Polarization: Horizontal
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26407.731	34.60	16.96	51.56	74.00	-22.44	peak			
2	26407.731	22.66	16.96	39.62	54.00	-14.38	AVG			

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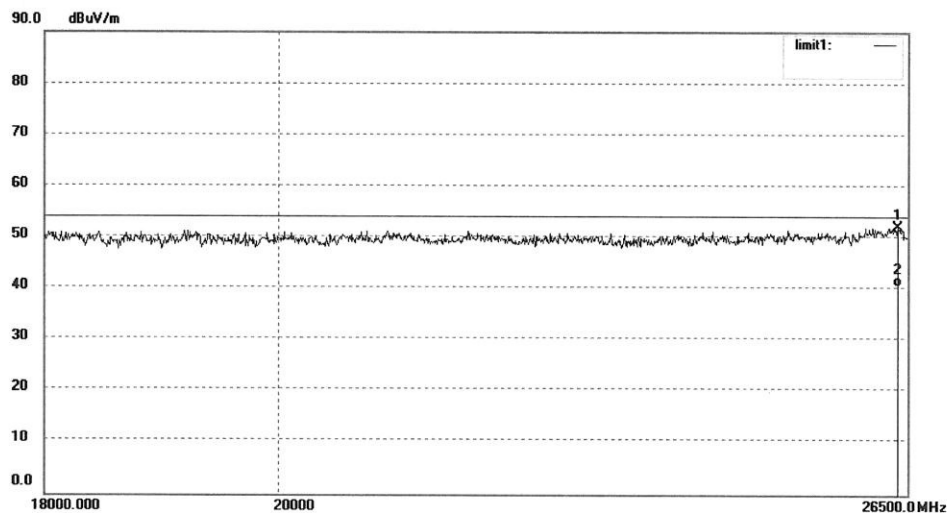
ACCURATE TECHNOLOGY CO., LTD.
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: LAN2014 #1159
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: TX 2480MHz
Model: Ringly
Manufacturer: Ringly Co.,Ltd.

Polarization: Vertical
Power Source: DC 3.7V
Date: 2014/10/17
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	26387.270	35.20	16.97	52.17	74.00	-21.83	peak			
2	26387.270	23.73	16.97	40.70	54.00	-13.30	AVG			

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5.1.7 Conducted Emissions

RESULT:

Pass

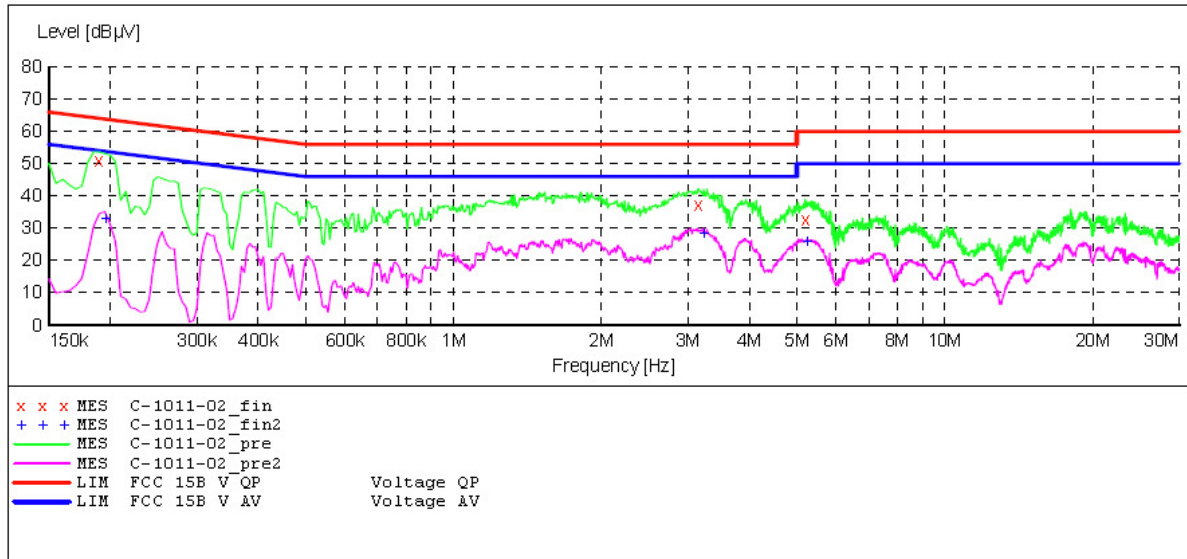
Date of testing	:	2014-10-11
Test standard	:	FCC Part 15.107(a) FCC Part 15.207(a)
Basic standard	:	ANSI C63.10: 2009
Limit	:	Refer to FCC Part 15.107 (a) & 15.207(a)
Kind of test site	:	Shield room

Test setup

Operation mode	:	A+B+C
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101 kPa

For detail refer to the following test plots.

Test Plots of Conducted Emission, Live line



MEASUREMENT RESULT: "C-1011-02_fin"

10/11/2014

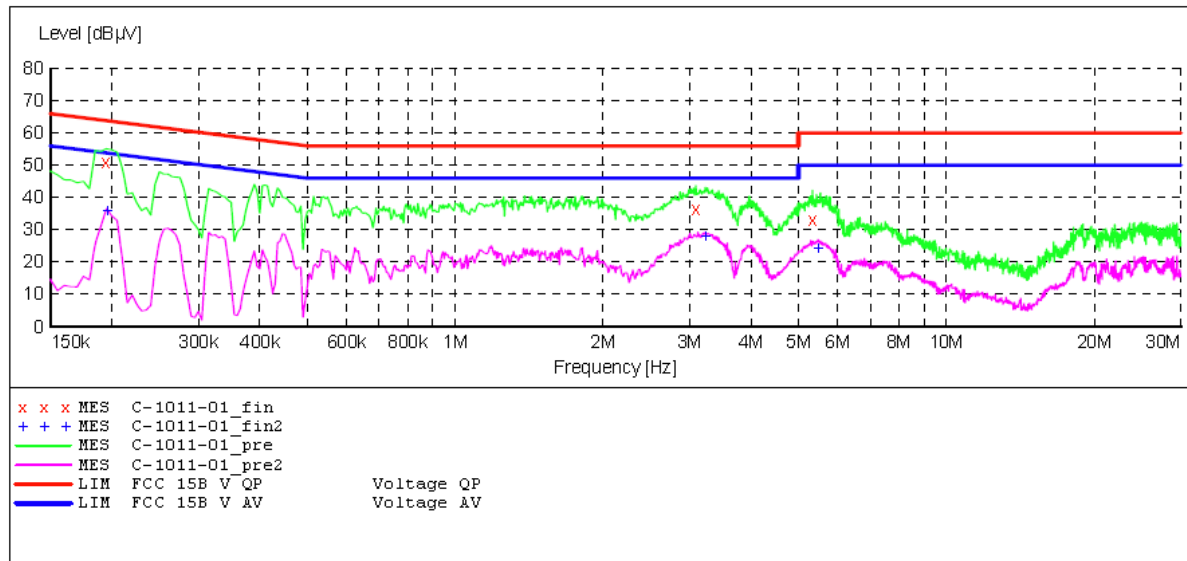
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.190000	51.00	10.5	64	13.0	QP	L1	GND
3.150000	37.00	11.1	56	19.0	QP	L1	GND
5.200000	32.50	11.2	60	27.5	QP	L1	GND

MEASUREMENT RESULT: "C-1011-02_fin2"

10/11/2014

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.195000	33.00	10.5	54	20.8	AV	L1	GND
3.230000	28.60	11.1	46	17.4	AV	L1	GND
5.250000	26.00	11.2	50	24.0	AV	L1	GND

Test Plots of Conducted Emission, Neutral line



MEASUREMENT RESULT: "C-1011-01_fin"

10/11/2014

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	51.10	10.5	64	12.7	QP	N	GND
3.090000	36.40	11.1	56	19.6	QP	N	GND
5.340000	33.00	11.2	60	27.0	QP	N	GND

MEASUREMENT RESULT: "C-1011-01_fin2"

10/11/2014

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.195000	36.10	10.5	54	17.7	AV	N	GND
3.230000	27.90	11.1	46	18.1	AV	N	GND
5.480000	24.40	11.2	50	25.6	AV	N	GND

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5.1.8 Radiated Emissions

RESULT:

Pass

Date of testing	:	2014-10-15
Test standard	:	FCC Part 15.109(a)
Basic standard	:	ANSI C63.10: 2009
Limit	:	Refer to FCC Part 15.109 (a)
Kind of test site	:	Shield room

Test setup

Operation mode	:	B+C
Ambient temperature	:	23°C
Relative humidity	:	48%
Atmospheric pressure	:	101 kPa

The highest frequency generated or used in the EUT is less than 108MHz, hence the highest test frequency is 1GHz.
For detail refer to the following test plots.

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Test Plots of Radiated Spurious Emissions



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

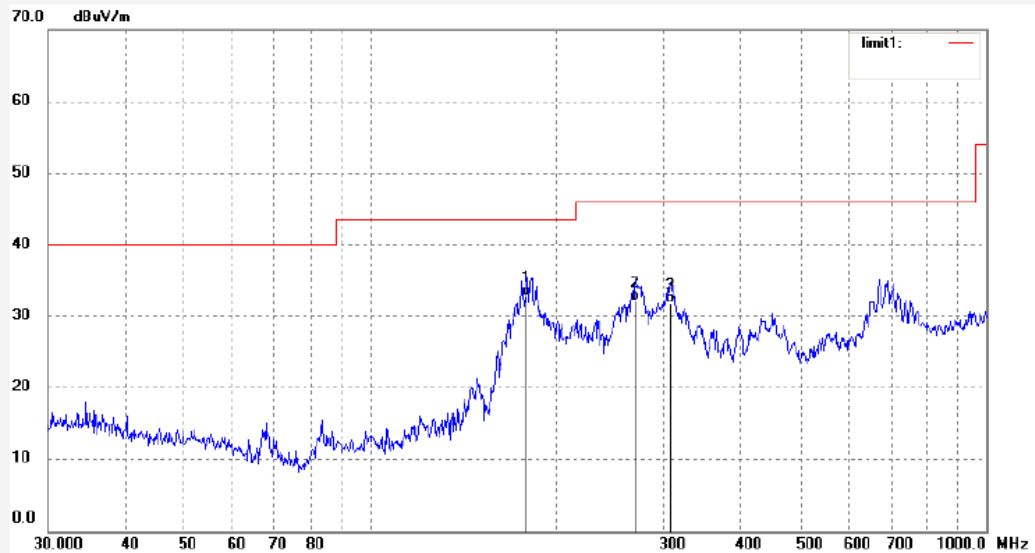
Tel:+86-0755-26503290

Fax: +86-0755-26503396

Job No.: LAN2014 #1121
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: Charging
Model: Ringly
Manufacturer: Ringly Co., Ltd.

Polarization: Horizontal
Power Source: DC 5V
Date: 2014/10/15
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	179.3863	46.35	-13.49	32.86	43.50	-10.64	QP			
2	269.4284	42.30	-10.21	32.09	46.00	-13.91	QP			
3	306.7536	40.84	-9.14	31.70	46.00	-14.30	QP			

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

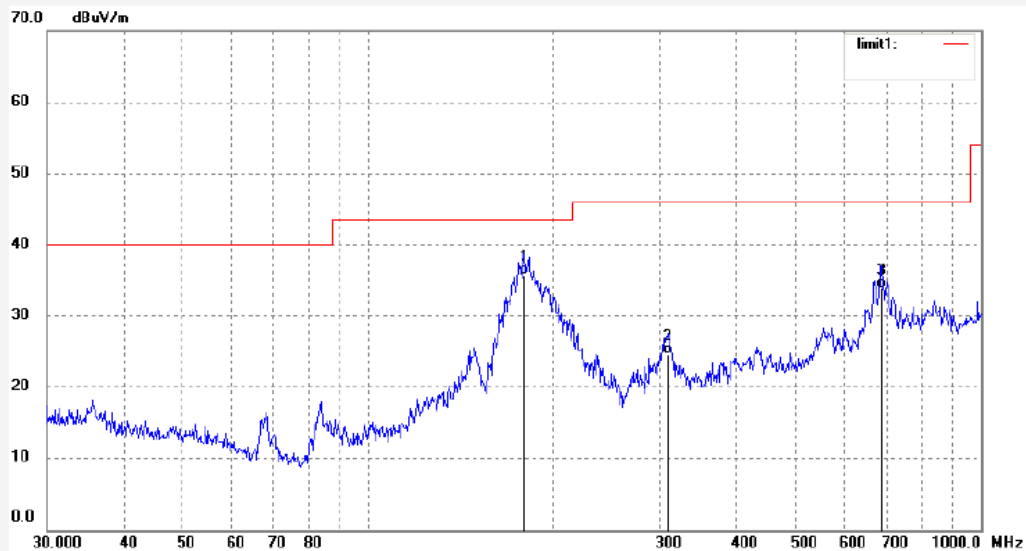
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: LAN2014 #1122
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 23 C / 48 %
EUT: Ringly
Mode: Charging
Model: Ringly
Manufacturer: Ringly Co., Ltd.

Polarization: Vertical
Power Source: DC 5V
Date: 2014/10/15
Time:
Engineer Signature:
Distance: 3m

Note:



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	180.0165	49.32	-13.48	35.84	43.50	-7.66	QP			
2	308.9125	33.60	-9.05	24.55	46.00	-21.45	QP			
3	689.5643	35.82	-1.92	33.90	46.00	-12.10	QP			

6. Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

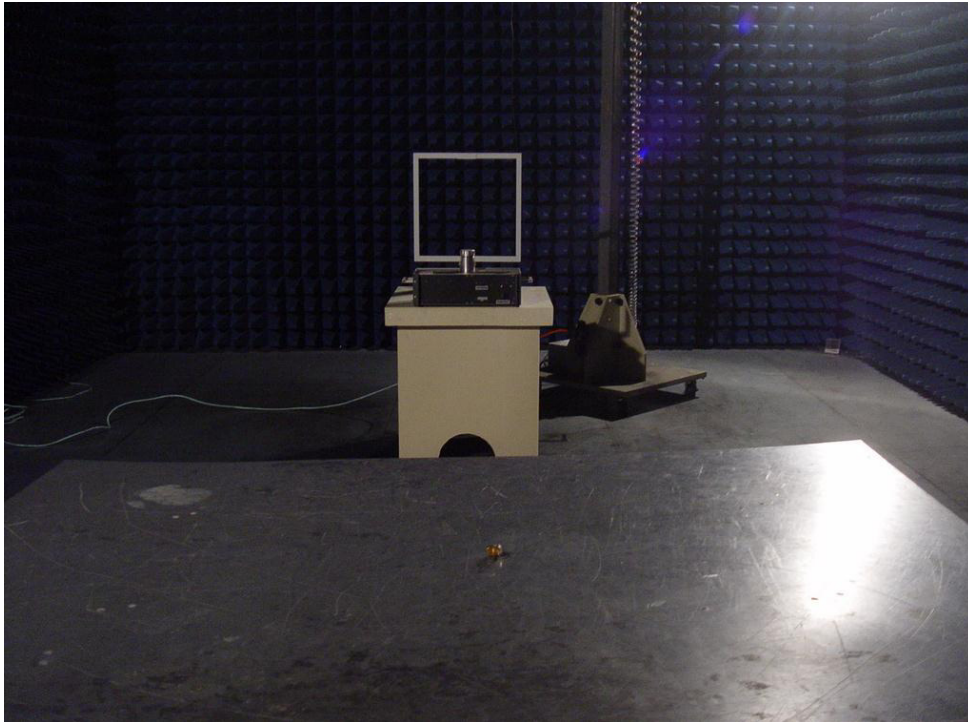
Pass

Test standard : FCC KDB Publication 447498

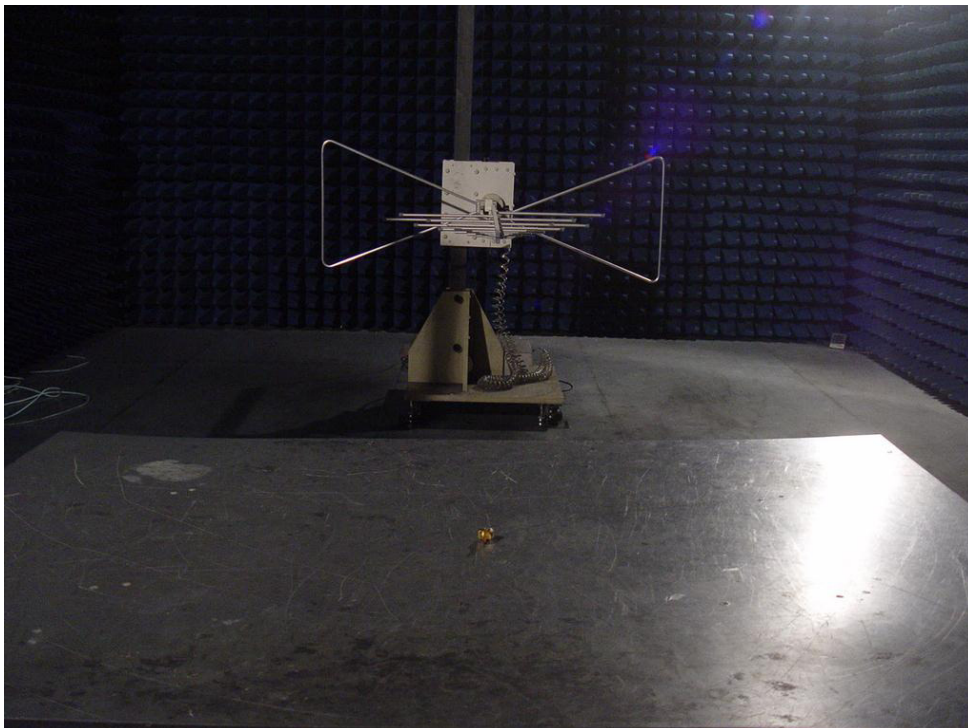
The minimum distance for the EUT is 5mm, since measured maximum peak output power of the transmitter is 0.15mW (-8.25dBm), which is far below the SAR exclusion threshold level 10 mW (Appendix A, SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v05.

7. Photographs of the Test Set-Up

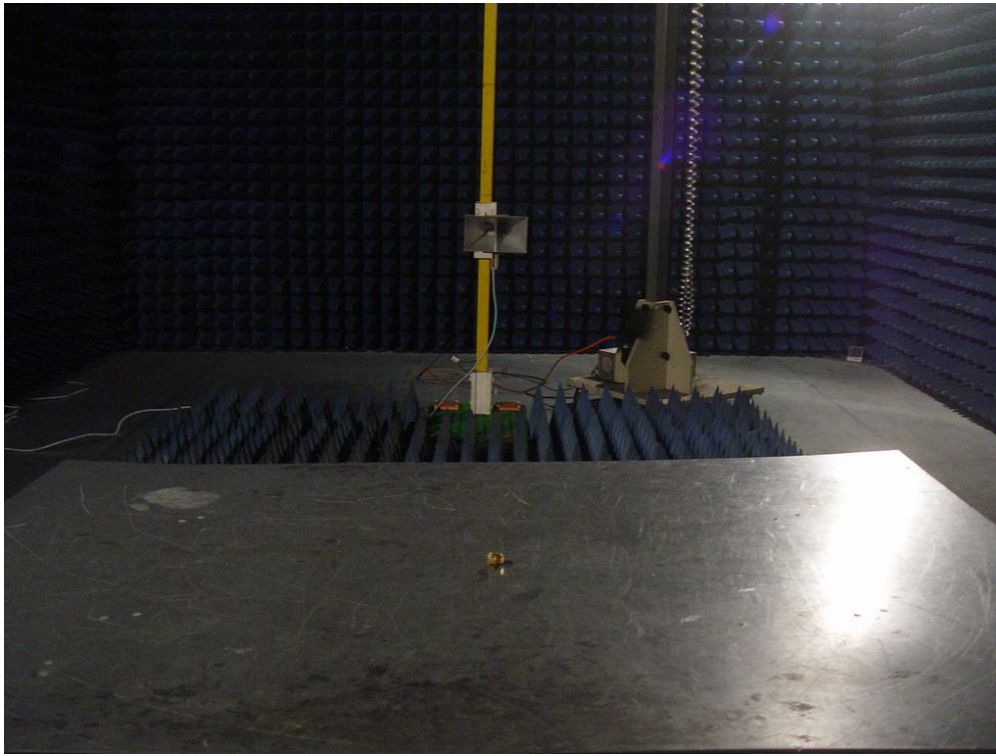
Photograph 1: Set-up for Radiated Spurious Emissions, 9KHz-30MHz



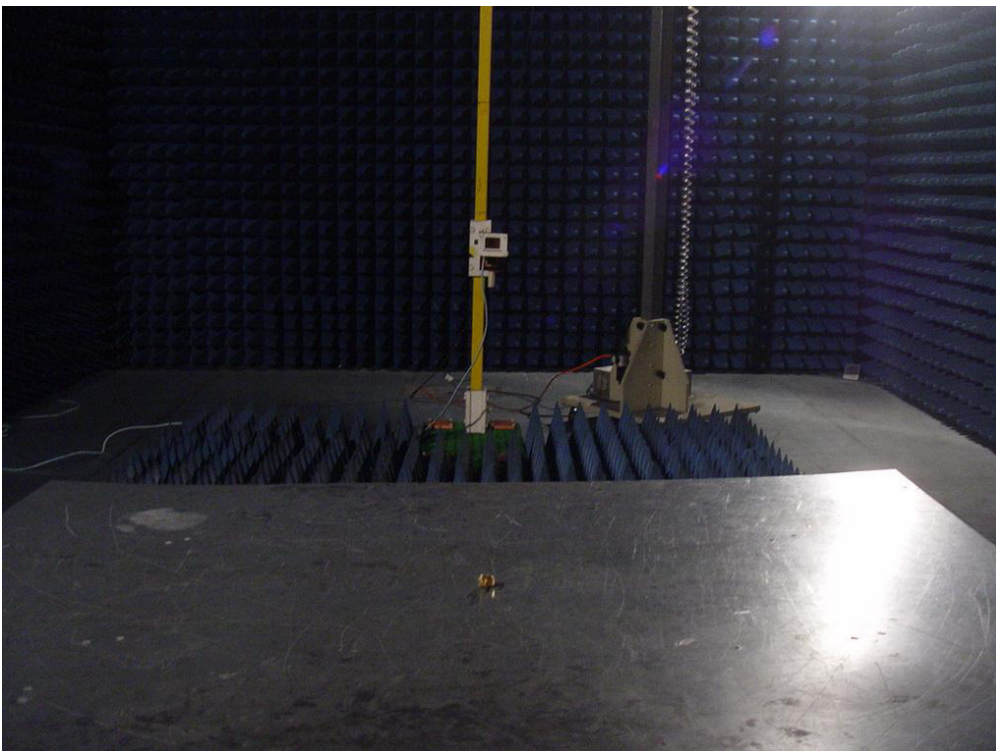
Photograph 2: Set-up for Radiated Spurious Emissions, 30MHz-1GHz



Photograph 3: Set-up for Radiated Spurious Emissions, 1GHz-18GHz



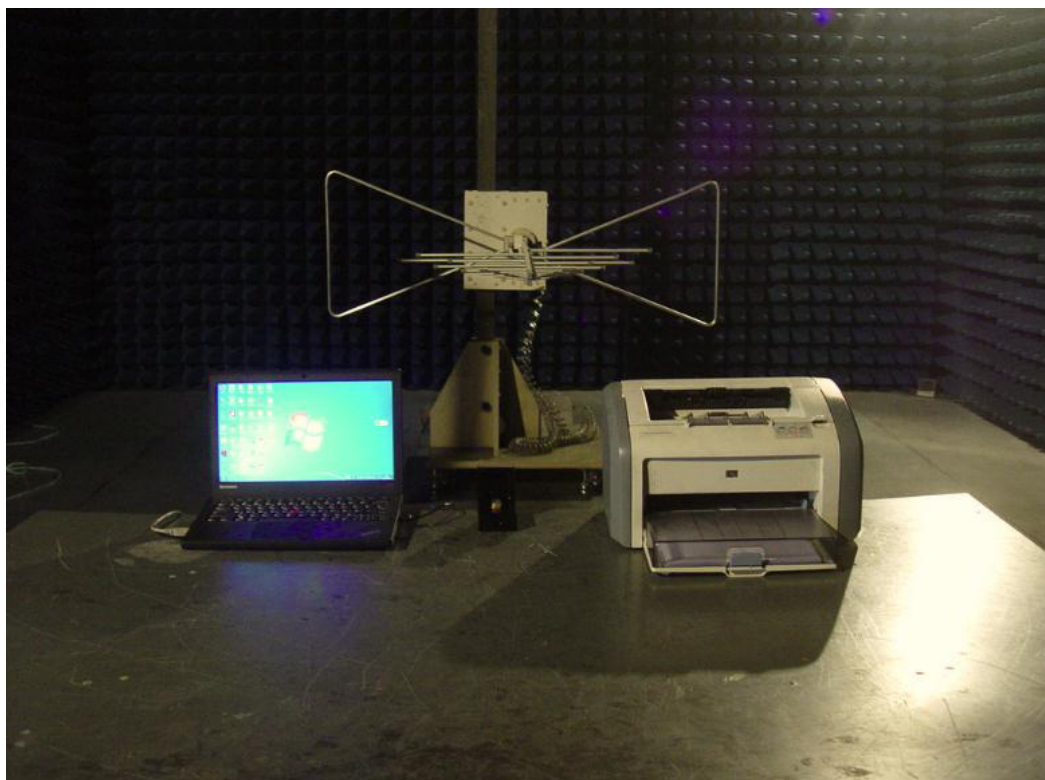
Photograph 4: Set-up for Radiated Spurious Emissions, 18GHz-25GHz



Photograph 5: Set-up for Conducted Emission



Photograph 6: Set-up for Radiated Emission



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