# **Co-location Report**

# **1 TEST RESULT**

### 1.1 Radiated Emissions Measurement

#### 1.1.1 Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

#### 1.1.2 Measuring Instruments and Setting

Please refer to section 2 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for peak

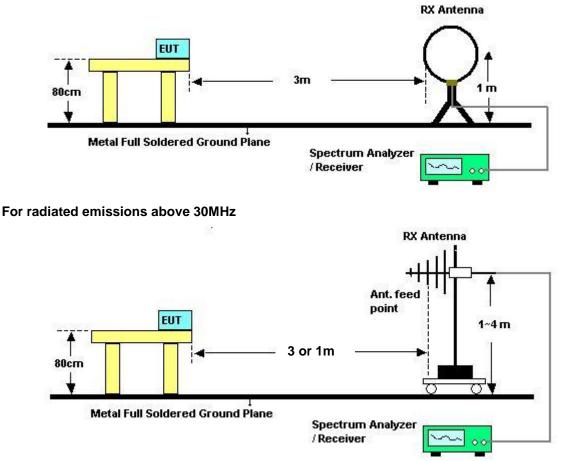
Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 1.1.3 Test Procedures

- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

#### 1.1.4 Test Setup Layout

#### For radiated emissions below 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1m]) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

#### 1.1.5 Test Deviation

There is no deviation with the original standard.

#### 1.1.6 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

#### 1.1.7 Results of Radiated Emissions (9kHz~30MHz)

Final Test Date	Feb. 08, 2012	Test Site No.	03CH02-HY
Temperature	<b>19.9℃</b>	Humidity	61%
Test Engineer	Streak		

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
-	-	-	-	See Note

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

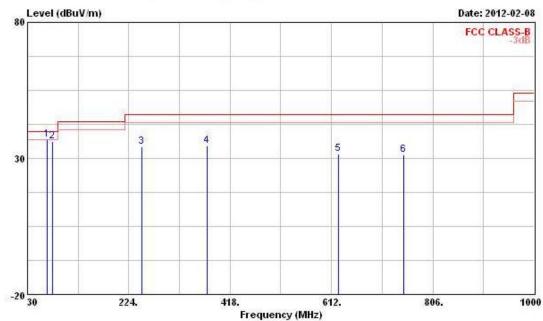
Distance extrapolation factor = 40 log (specific distance / test distance) (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.

# 1.1.8 Results of Radiated Emissions (30MHz~1GHz)

Final Test Date	Feb. 08, 201	2	Test Site No.	03CH02-ł	HY	
Temperature	<b>19.9℃</b>		61%			
Test Engineer	Streak		Configuration	TX 2412MHz 11b + Bluetooth 7 2441MHz + Z-Wave 908.42 MH		
orizontal						
Level (dBu	V/m)					012-02-08
					FCC	CLASS-B -3dB
10-	14	_				
				5		
30 1	1.000	4		1	6	
2	3					
-20 30	224	418	612		306.	1000
-20 30	224.	418. Fre	612. equency (MHz)		306.	1000

			<b>Over</b>	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	)	cm	deg
1	43.580	26.97	-13.03	40.00	41.49	12.27	1.09	27.88	Peak	12.616	10000
2	90.140	23.86	-19.64	43.50	40.63	9.50	1.58	27.85	Peak		
3	249.220	27.12	-18.88	46.00	38.67	12.97	2.77	27.29	Peak		
4	374.350	31.53	-14.47	46.00	41.07	14.86	3.29	27.69	Peak		
5	749.740	34.57	-11.43	46.00	38.42	19.55	4.71	28.11	Peak		
6	850.620	33.74	-12.26	46.00	36.31	20.15	5.05	27.77	Peak		





	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Remark	Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB		 cm	deg
1	68.230	36.96	-3.04	40.00	56.61	6.81	1.39	27.85	QP	10.000	100.00
2	77.200	36.41	-3.59	40.00	55.53	7.24	1.49	27.85	QP		
3	249.220	34.24	-11.76	46.00	45.79	12.97	2.77	27.29	Peak		
4	374.350	34.71	-11.29	46.00	44.25	14.86	3.29	27.69	Peak	1000000	
5	625.580	31.60	-14.40	46.00	35.85	19.84	4.32	28.41	Peak		
6	749.740	31.41	-14.59	46.00	35.26	19.55	4.71	28.11	Peak		

Note:

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level  $(dBuV/m) = 20 \log Emission level (uV/m)$ .

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

0

1000

#### Feb. 08, 2012 Test Site No. **Final Test Date** 03CH02-HY Temperature **19.9°**C Humidity 61% TX 2412MHz 11b + Bluetooth TX **Test Engineer** Streak Configuration 2441MHz + Z-Wave 908.42 MHz Horizontal Level (dBuV/m) Date: 2012-02-02 FCC CLASS-B 60 **9**0 FCC CLASS-B-AV 3 2

Frequency (MHz)

16300.

21400.

26500

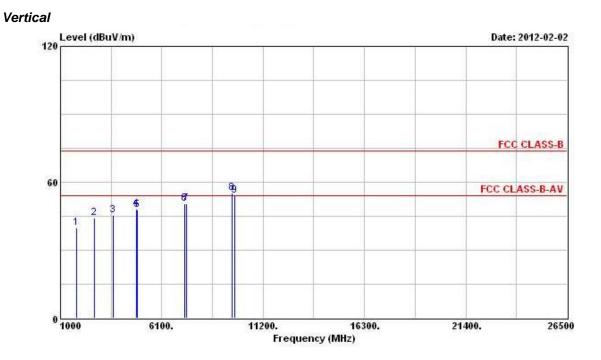
## 1.1.9 Results for Radiated Emissions (1GHz~10<sup>th</sup> Harmonic)

6100.

				Over	Limit	Read	Antenna	Cable	Preamp		Ant	Table
		Freq	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	t.	MHz	dBuV/m	dB	dBuV/m	dBu∛	dB/m	dB	dB		cm	deg
1		1816.840	39.34			42.25	29.21	2.56	34.68	Peak	10.000	1000
2	0	2725.260	44.67	-9.33	54.00	43.59	32.72	3.24	34.88	PK		
3	0	3633.680	46.01	-7.99	54.00	43.29	33.68	3.94	34.90	PK		
4	0	4824.000	48.66	-5.34	54.00	43.12	35.76	4.58	34.80	PK		
5	0	4882.000	49.09	-4.91	54.00	43.40	35.83	4.64	34.78	PK		
6		7236.000	51.17			42.77	37.85	5.63	35.08	Peak		
7		7323.000	51.91	-22.09	74.00	43.50	37.87	5.64	35.10	Peak		
8		7323.000	38.73	-15.27	54.00	30.32	37.87	5.64	35.10	Average		
9		9648.000	54.53			44.27	39.39	6.34	35.47	Peak		
10		9764.000	55.32			44.91	39.53	6.36	35.48	Peak		

11200.

Note: The Items 1, 6, 9 and 10 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.



				0ver	Limit	Read	Antenna	Cable	Preamp		Ant	Table
	F	req	Level	Limit	Line	Level	Factor	Loss	Factor	Remark	Pos	Pos
	<del>1.</del>	Mtz	dBuV/m	dB	dBuV/m	dBu∛	dB/m	dB	dB	)	cm	deg
1	1816.	840	39.78			42.18	29.72	2.56	34.68	Peak	12.000	10000
2 6	2725.	260	44.22	-9.78	54.00	43.11	32.75	3.24	34.88	PK		
3 6	3633.	680	45.48	-8.52	54.00	42.89	33.55	3.94	34.90	PK		
4 6	4824.	000	47.99	-6.01	54.00	43.08	35.13	4.58	34.80	PK	1.	
5 6	4882.	000	47.71	-6.29	54.00	42.67	35.18	4.64	34.78	PK		
6	7236.	000	50.50			43.05	36.90	5.63	35.08	Peak		
7 6	7323.	000	50.47	-3.53	54.00	43.00	36.93	5.64	35.10	PK		
8	9648.	000	55.23			45.77	38.59	6.34	35.47	Peak	20.002.00	
9	9764.	000	53.95			44.34	38.73	6.36	35.48	Peak		

Note: The Items 1, 6, 8 and 9 are on un-restricted band, so the limit is -20dB for the field strength of the fundamental emissions.

# 2 LIST OF MEASURING EQUIPMENTS

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	<b>Calibration Date</b>	Remark
Spectrum Analyzer	R&S	FSP40	100305/040	9 kHz ~ 40 GHz	Feb. 11, 2011	Radiation (03CH02-HY)
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz ~ 1 GHz 3m	May 11, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8447D	2944A11146	100 kHz ~ 1.3 GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Amplifier	Agilent	8449B	3008A02373	1 GHz ~ 26.5 GHz	Jul. 25, 2011	Radiation (03CH02-HY)
Horn Antenna	ETS-LINDGREN	3117	00091920	1 GHz ~ 18 GHz	Nov. 15, 2011	Radiation (03CH02-HY)
RF Cable-R03m	Jye Bao	RG142	CB021	30 MHz ~ 1 GHz	Nov. 11, 2011	Radiation (03CH02-HY)
RF Cable-high	SUHNER	SUCOFLEX106	03CH02-HY	1 GHz ~ 40 GHz	Mar. 07, 2011	Radiation (03CH02-HY)
Bilog Antenna	SCHAFFNER	CBL61128	2723	30 MHz ~ 2 GHz	Oct. 22, 2011	Radiation (03CH02-HY)
Turn Table	HD	DS 420	420/649/00	0 - 360 degree	N/A	Radiation (03CH02-HY)
Antenna Mast	HD	MA 240	240/559/00	1 m - 4 m	N/A	Radiation (03CH02-HY)

Note: Calibration Interval of instruments listed above is one year.

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Loop Antonno	R&S	HFH2-Z2	860004/001	9 kHz ~ 30 MHz	hul 20, 2010*	Radiation
Loop Antenna	Rad		860004/001	9 KHZ ~ 30 MHZ	Jul. 29, 2010*	(03CH03-HY)

Note: Calibration Interval of instruments listed above is two year.

# **3 TEST LOCATION**

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FAX   i   8000 F 2000 F 2000 F 2000     FAX   :   886-2-2696-2255     HWA YA   ADD   :   No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.     TEL   :   886-3-327-3456     FAX   :   886-3-318-0055     LINKOU   ADD   :   No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C     TEL   :   886-2-2601-1640     FAX   :   886-2-2601-1695     DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020   FAX     FAX   :   886-2-8227-2020     FAX   :   886-2-272-2020     FAX   :   886-2-272-2020     FAX   :   886-2-272-2020     FAX   :   886-2-272-2020     FAX   :   8	SHIJR	ADD	:	6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C.
HWA YA   ADD   :   No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.     TEL   :   886-3-327-3456     FAX   :   886-3-318-0055     LINKOU   ADD   :   No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C     TEL   :   886-2-2601-1640     FAX   :   886-2-2601-1695     DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   TFL, No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020   FAX     FAX   :   886-2-8227-2020     FAX   :   886-2-8227-2626     NEIHU   ADD   :   4FL, No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886   FAX     FAX   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :		TEL	:	886-2-2696-2468
TEL   :   886-3-327-3456     FAX   :   886-3-318-0055     LINKOU   ADD   :   No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C     TEL   :   886-2-2601-1640     FAX   :   886-2-2601-1695     DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020   FAX   :     FAX   :   886-2-8227-2020   FAX   :     NEIHU   ADD   :   4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886   FAX   :   886-2-2794-8886     FAX   :   886-2-2794-9777   State 2-2794-9777   State 2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   886-3		FAX	:	886-2-2696-2255
FAX   :   886-3-318-0055     LINKOU   ADD   :   No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C     TEL   :   886-2-2601-1640     FAX   :   886-2-2601-1695     DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020      FAX   :   886-2-8227-2020     FAX   :   886-2-8227-2020     FAX   :   886-2-2794-2626     NEIHU   ADD   :   4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   886-3-656-9065	HWA YA	ADD	:	No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.
LINKOU   ADD   :   No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C     TEL   :   886-2-2601-1640     FAX   :   886-2-2601-1695     DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020   FAX     FAX   :   886-2-8227-2020     FAX   :   886-2-8227-2626     NEIHU   ADD   :   4FI., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   :   886-3-656-9065		TEL	:	886-3-327-3456
TEL : 886-2-2601-1640   FAX : 886-2-2601-1695   DUNGHU ADD : No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.   TEL : 886-2-2631-4739   FAX : 886-2-2631-9740   JUNGHE ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.   TEL : 886-2-8227-2020   FAX : 886-2-8227-2020   FAX : 886-2-8227-2626   NEIHU ADD : 4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.   TEL : 886-2-2794-8886   FAX : 886-2-2794-9777   JHUBEI ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.   TEL : : 886-3-656-9065		FAX	:	886-3-318-0055
FAX   :   886-2-2601-1695     DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020      FAX   :   886-2-8227-2626     NEIHU   ADD   :   4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   886-3-656-9065   :	LINKOU	ADD	:	No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C
DUNGHU   ADD   :   No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.     TEL   :   886-2-2631-4739     FAX   :   886-2-2631-9740     JUNGHE   ADD   :   7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020   FAX     FAX   :   886-2-8227-2626     NEIHU   ADD   :   4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   886-3-656-9065   St.		TEL	:	886-2-2601-1640
TEL : 886-2-2631-4739   FAX : 886-2-2631-9740   JUNGHE ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.   TEL : 886-2-8227-2020   FAX : 886-2-8227-2626   NEIHU ADD : 4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.   TEL : 886-2-2794-8886   FAX : 886-2-2794-9777   JHUBEI ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.   TEL : 886-3-656-9065		FAX	:	886-2-2601-1695
FAX : 886-2-2631-9740   JUNGHE ADD : 7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.   TEL : 886-2-8227-2020   FAX : 886-2-8227-2626   NEIHU ADD : 4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.   TEL : 886-2-2794-8886   FAX : 886-2-2794-9777   JHUBEI ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.   TEL : 886-3-656-9065	DUNGHU	ADD	:	No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C.
JUNGHE   ADD   :   7Fl., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C.     TEL   :   886-2-8227-2020     FAX   :   886-2-8227-2626     NEIHU   ADD   :   4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   886-3-656-9065		TEL	:	886-2-2631-4739
TEL : 886-2-8227-2020   FAX : 886-2-8227-2626   NEIHU ADD : 4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.   TEL : 886-2-2794-8886   FAX : 886-2-2794-9777   JHUBEI ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.   TEL : 886-3-656-9065		FAX	:	886-2-2631-9740
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NEIHU   ADD   :   4Fl., No. 339, Hsin Hu 2 <sup>nd</sup> Rd., Taipei 114, Taiwan, R.O.C.     TEL   :   886-2-2794-8886     FAX   :   886-2-2794-9777     JHUBEI   ADD   :   No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.     TEL   :   886-3-656-9065		TEL	:	886-2-8227-2020
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JHUBEIADD:No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.TEL:886-3-656-9065		TEL	:	886-2-2794-8886
TEL : 886-3-656-9065		FAX	:	886-2-2794-9777
	JHUBEI	ADD	:	No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.
FAX : 886-3-656-9085		TEL	:	886-3-656-9065
		FAX	:	886-3-656-9085