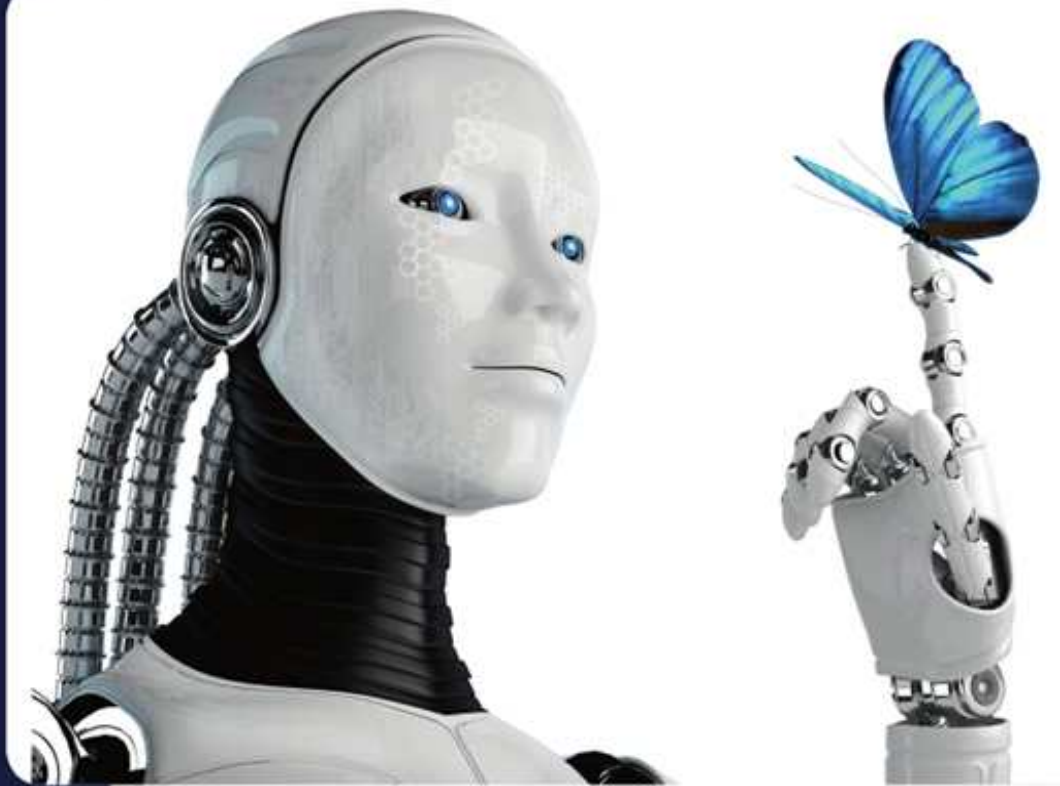


# Newsletter December, 2017



# ICR



## **Hot issue**

- 1. EMC, Complete the Designation for RRA**
- 2. KOREA-CHINA, Strengthen mutual recognition cooperation with electric appliances**
- 3. Automotive EMC News**
- 4. Sharing research on 5G frequency candidate band in earnest**
- 5. Introduction of TR CU certification**
- 6. IATF 16949 Automotive Quality Management System**
- 7. ICR business plan for IATF recognition body registration**
- 8. ICR business strategy based on the IATF 16949 recognition**
- 9. MOU agreement with KTICC**
- 10. MOU agreement with Hanseo University**
- 11. Special visit from Hanseo University**
- 12. ICR Foundation Celebration Event**



# EMC, Complete the Designation for RRA



On December 29th, 2017, The ICR obtained the qualification from the National Institute of Radio Research Institute as a designated testing institute for EMC. (Designated number KR0165)

Base on this, the ICR provides KC registration service, so please pay a lot of attention.

# EMC, Complete the Designation for RRA



# KOREA-CHINA, Strengthen mutual recognition cooperation with electric appliances



‘ The 14th Korea-China Compatibility Evaluation Subcommittee ’

2 day The National Institute of Standards and Technology announced that the Korea-China Compatibility Assessment Subcommittee held in Seoul will further strengthen mutual recognition cooperation in the field of domestic KC certification and CCC certification in China.

In addition, the two sides agreed on the necessity of mutual recognition of the electromagnetic wave field of electrical appliances, and after consultation between the two sides, they agreed in principle to form a electromagnetic wave working group in 18 years.

Since 2004, the two governments have held regular meeting of the Korea-China Compatibility Assessment Subcommittee every year to promote technical regulation problems such as test certification and cooperation. The result of this cooperation has resulted in the signing of agreements between the two certification bodies.

First, at this meeting, the Chinese side decided to examine the education plan necessary for the registration of the CCC factory auditor so that the domestic contracting agency auditor can act as the CCC certified factory in China.

Under the agreement , domestic exporters were able to test products to receive CCC certification, but in case of factory examination, the cost and time of the factory are high because the CCC certification agency staff in China directly tests

In the future, if domestic export companies receive a CCC certified factory review from a domestic certification body auditor, it is expected that the difficulties related to factory examination of export companies will be solved considerably

In addition the two sides sympathized the necessity of mutual recognition in order to solve the difficulties of the test certification in the field of electromagnetic waves, and agreed in principle to establish a working group of electromagnetic waves in 2018 through mutual consultation.

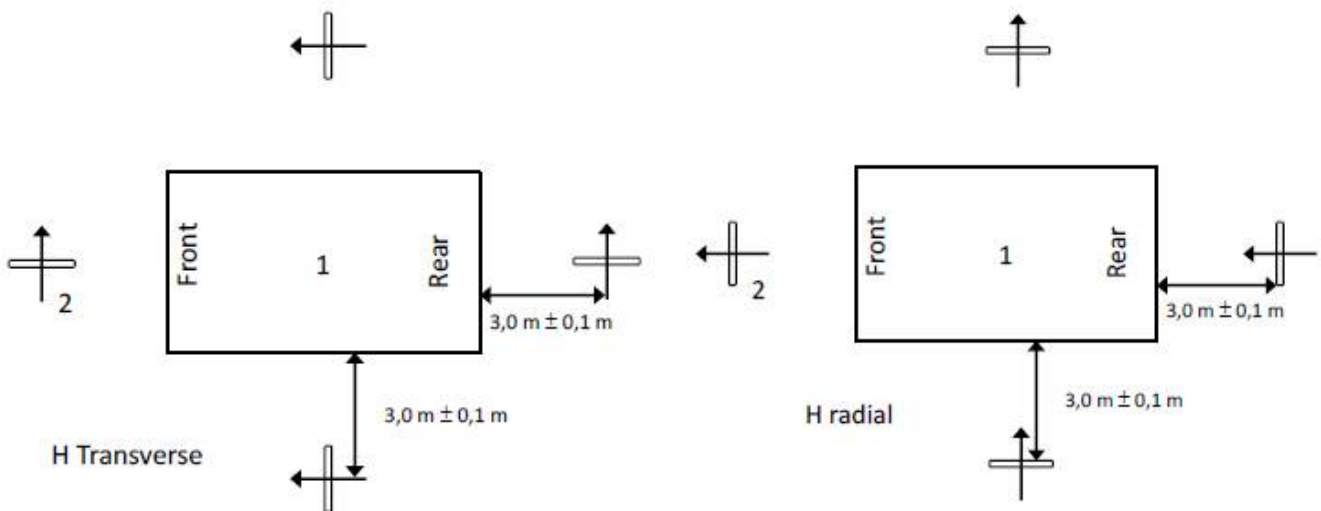
Ahn Byung -hwa, the director of technology regulation response, said, "In order to resolve the technical regulation difficulties between the two countries At this meeting, we plan to discuss details with the Chinese side on strengthening inspection and cooperation of electronic product factories and the composition of the working groups of the two parties.



(The 14th Korea-China Compatibility Evaluation Subcommittee Meeting)

## ■ Drift CISPR36 : Radiated emission below 30 MHz

- Limits for radiated emission (magnetic field) 150 kHz to 30 MHz
- Measurement with 60 cm Loop Antenna in Transverse and Radial direction,
- centre of loop at fixed height of 1,30 m, measurement distance 3 m



# Sharing research on 5G frequency candidate band in earnest [1]



At WRC-15 held in 2015, the agenda for securing 5G frequencies in the 24.25-86 GHz bands was adopted and a total of 11 candidate bands were presented.

In order to share research with existing services in these candidate bands, a temporary group (TG 5/1) was established under ITU-R SG 5, and TG 5/1 is scheduled to hold a total of six meetings until September 2018. Is scheduled.

The third TG 5/1 meeting, held from September 19 to 28, 2017, was held in Abu Dhabi, United Arab Emirates, with 203 participants from 35 member countries, international organizations and industries all over the world. A total of 5 national contributions were submitted by Korea, and a total of 7 national delegates from the National Institute of Radiological Research, Samsung Electronics, Hanbat National University, ETRI and Korea Radio Promotion Association attended.



# Sharing research on 5G frequency candidate band in earnest [2]



Since TG 5/1 requires completion of a shared study by August 31, 2018 in accordance with the WRC-19 schedule, the opportunity to discuss the findings is only three meetings until the fifth meeting in May 2018. The discussion schedule is very tight.

At the third meeting, the results of the interference analysis were submitted, most of which were applied to the shared research parameters summarized at the previous meeting.

Korea has prioritized WRC-19 candidate bands including the 26.5-27.5 GHz band according to the 5G frequency (26.5-29.5 GHz) plan of the K-ICT Spectrum Plan, so a shared study on this band was conducted.





# Sharing research on 5G frequency candidate band in earnest [3]



In the case of IMT, the same band, fixed satellite of 27 ~ 27.5 GHz, earth exploration satellite of 25.5~27 GHz, earth exploration satellite of 31.3~31.8 GHz (passive), and the adjacent band of 23.6~24 GHz. The results of the shared research with the Earth exploration satellite (manual) were submitted, In addition, we submitted a recommendation to specify the share of protection standard applied to each shared study.

Korea supports the 24.25~27.5 GHz band including 26.5~27.5 GHz among the candidate bands, so we submitted a contribution by conducting a shared research. In addition, we have undertaken aggressive activities such as locally responding to Korean articles, as well as accepting the chairmanship of small groups for the two most sensitive parameter issues and drawing reasonable consensus based on technical discussions.



# Sharing research on 5G frequency candidate band in earnest [4]



At the next meeting, we are planning to contribute to the related CPM report because it is expected that IMT will undertake a regulatory discussion to coexist with other tasks as well as updating the shared research results.

The next meeting will be held from January 17 to 26, 2018 in Geneva, Switzerland.



# Introduction of TR CU certification [1]



## ■ Test / Certification service for TR CU

The certification of products for the export to Eurasian Economic Union, is one of the most important mechanism to control products quality and their conformity with technical standards.

The products should ensure consumer protection and safety. The certification and permitting procedure for Eurasian Economic Union, market is an extensive process, which requires both special knowledge of Law and experience in interaction with state authorities.

We provide you with all required certificates for your products quickly, reliably and for a reasonable price!

## ■ ICR Service Scope for TR CU

If you have a CE certificate issued by ICR Polska Sp. z o.o. You can acquire the TR CU certificate at the same time.

- **Safety of Machines and Equipment** (TR CU 010/2011)
- **On safety of low-voltage equipment** (TR CU 004/2011)
- **On Electromagnetic Compatibility of Technical Devices**”(TR CU 020/2011)
- **On safety of the EX equipment** (TR CU 012/2011)
  
- **Test, Certification, Authorized representative**



# Introduction of TR CU certification [3]



**LAND REVENUE USE**

**СЕРТИФИКАТ КОМПЕТЕНЦИИ**

ИЗДАНО В СООБЩЕСТВЕ

Сертификат № **0000148**

**ОПИСАНИЕ СЕРТИФИКАЦИИ** - Владельцем сертификата является компания «ИНТЕРПОЛ» (ООО «ИНТЕРПОЛ»), зарегистрированная в Республике Беларусь, государственная регистрация № РОСР 01000110709, дата регистрации 15.06.2011 г. по 15.06.2014 г., адрес: Республика Беларусь, г. Минск, ул. Фрунзе/Дачная д. 70, стр. 11, оф. 204. Контактный адрес: 010700, Тельмань ст., г. Минск, ул. Фрунзе/Дачная д. 1, оф. 8, Республика Беларусь. Контактный телефон: +375 (0) 29 74 51 51, e-mail: info@interpol.by

**НАЗНАЧЕНИЕ** - ООО «Интерпол»/сервис, ООО «ТРАНСВАЗ»/СРПО (147164) (1488)  
Адрес: 22017, г. Минск, Брунашова ул., д. 24, стр. 7, Респ. Беларусь. Контактный телефон: +375 (0) 29 74 51 51, e-mail: info@interpol.by

**ДИПОЛОМАНТА** - Сергей Ковалев  
Адрес: 22-5, Сапожков, Школьный, Сорокинского, Республиканский  
Телефон: +375 (0) 29 74 51 51, e-mail: info@interpol.by

**ПРОЦЕДУРА** - Сертификация проводится в соответствии с стандартом ИСО/ИСО/ИВЗ и осуществляется в соответствии с правилами и условиями сертификации, утвержденными в установленном порядке.

**РЕГИОНАЛЬНЫЕ** - 9401 40 1000

**КОДЫ СТРАНЫ ПРОИЗВОДИТЕЛЯ** - Территория регистрации: Республика Беларусь  
«02» - Республика Беларусь для работы на территории страны (ТР ТС 010011)  
ГОСТ Р ИСО 9001-2011, ГОСТ Р ИСО 9001-2011, ГОСТ Р ИСО 9001-2011,  
ГОСТ Р ИСО 9001-2010, ГОСТ Р ИСО 9001-2010, ГОСТ Р ИСО 9001-2011,  
ГОСТ Р ИСО 9001-2011

**СЕРТИФИКАТ ВЛАДА НА ОСНОВАНИИ** - Протокол испытаний № 040722-04 от 29.06.2014 г., № 040722-04 от 29.06.2014 г., № РОСР 01000110709 от 15.06.2011 г.  
Адрес: 010700, Тельмань ст., г. Минск, ул. Фрунзе/Дачная д. 1, оф. 8, Респ. Беларусь  
Адрес электронной почты: info@interpol.by

**АККРЕДИТОВАННАЯ ОРГАНИЗАЦИЯ** - Центр тестирования и сертификации ИСО/ИСО/ИВЗ  
«Сертификация» (г. Минск, ул. Фрунзе/Дачная д. 1, оф. 8, Республика Беларусь)

01.12.2014 (под) 04.01.2017 (под)  


 M.B. Shcherbakov  
 P.B. Tsygankov



# Sharing research on 5G frequency candidate band in earnest [1]

## ■ Test / Certification service for TR CU

The certification of products for the export to Eurasian Economic Union, is one of the most important mechanism to control products quality and their conformity with technical standards.

The products should ensure consumer protection and safety. The certification and permitting procedure for Eurasian Economic Union, market is an extensive process, which requires both special knowledge of Law and experience in interaction with state authorities.

We provide you with all required certificates for your products quickly, reliably and for a reasonable price!

## ■ ICR Service Scope for TR CU

If you have a CE certificate issued by ICR Polska Sp. z o.o. You can acquire the TR CU certificate at the same time.

- **Safety of Machines and Equipment** (TR CU 010/2011)
- **On safety of low-voltage equipment** (TR CU 004/2011)
- **On Electromagnetic Compatibility of Technical Devices**”(TR CU 020/2011)
- **On safety of the EX equipment** (TR CU 012/2011)
  
- **Test, Certification, Authorized representative**

# IATF 16949 Automotive Quality Management System



## ■ IATF 16949

- In 3<sup>rd</sup> October, 2016, IATF published new Automotive Quality Management System standard, IATF 16949. (IATF 16949 substitute ISO/TS 16949)
- IATF 16949:2016 is developed based on ISO 9001:2015 requirements.
- ISO/TS 16949:2009 certification is valid by 14<sup>th</sup> September 2018.

# ICR business plan for IATF recognition body registration



Date	Planning stage and contents
2018-01-31	Establishment of documented information for IATF 16949 certification audit (Manual, Procedure, Instructions and forms)
2018-06-30	Competency evaluation for internal/external human resources based on the established processes
2018-07-31	Apply to the one of IATF Oversight Offices for recognition body registration
2018-09-30	ICR office and site assessment
2018-10-31	IATF recognition body registration complete and provide certification audit service



# ICR business strategy based on the IATF 16949 recognition



- IATF 16949 will be integrated to the existing ICR system (ISO 9001/ISO 14001/ OHSAS 18001).
- Based on the IATF system operation rule, the audit duration will be reduced(Max. 50%) for the certified clients of ISO 9001. (Note: Only for ISO 9001:2015 certified clients.)
- For the IATF 16949 certification transfer client ISO 9001:2015 training will be supported.

# MOU agreement with KTICC



ICR and KTICC, an accredited testing organization, held a **business agreement ceremony** for mutual cooperation at ICR office on November 3th, 2017.

Both of organizations have agreed to cooperate with each other on the field of product certification, system certification, correction and technical information exchange.

Through mutual cooperation, they have been able to provide customers with comprehensive services such as testing, certification and calibration.

# MOU agreement with Hanseo University



On November 6<sup>th</sup>, 2017, an agreement was signed between ICR and Hanseo University at Hanseo University.

Both of organizations agreed to work together for establishing of education for skilled workers, exchanging information for talented workers, cooperating with facilities and equipment use of both institutions, supporting internship program and employment supports and also researching on R&D projects.

# Special visit from Hanseo University



Students majoring Aeronautical Industry Engineering at Hanseo University visited ICR office on November 20, 2017.

As part of our business cooperation with Hanseo University, ICR supports students on-the-job training.

Though this special visit, they had an opportunity to understand the work of laboratories while touring Electromagnetic Laboratory, Reliability Laboratory, Household Appliance and Medical Instrument Laboratory.

# ICR Foundation Celebration Event



Dec. 01, 2017, we held a mountain climbing ceremony to celebrate 17<sup>th</sup> anniversary of foundation.

All the employees climbed together and raised their spirit of challenge. After climbing, they had lunch at a nearby restaurant and also held an award ceremony for excellent employees.

Through the foundation ceremony, we promised to create ICR that will leap forward once again with the spirit of challenging our employees to pioneer the future with their creative minds.



[www.icrqa.com](http://www.icrqa.com)

ICRO-31/R20161125 본 문서는 법률 제 14088호 저작권법의 보호대상이며, ICR의 지적 자산으로 불법 편집 및 복사를 금합니다.

Address :3611, Hagun-ri, Yangchon-eup, Gimpo-si,  
Gyeonggi-do , South Korea (10048)

Company Id No : 110111-243147  
Tax & VAT Id No : 105-86-35114

Tel : (+82)2-6351-9001~5 / Fax : (+82)2-6351-9007  
Home page : [www.icrqa.com](http://www.icrqa.com)



[www.icrqa.com](http://www.icrqa.com)

ICRO-31/R20161125 본 문서는 법률 제 14088호 저작권법의 보호대상이며, ICR의 지적 자산으로 불법 편집 및 복사를 금합니다.

Address :3611, Hagun-ri, Yangchon-eup, Gimpo-si,  
Gyeonggi-do , South Korea (10048)

Company Id No : 110111-243147  
Tax & VAT Id No : 105-86-35114

Tel : (+82)2-6351-9001~5 / Fax : (+82)2-6351-9007  
Home page : [www.icrqa.com](http://www.icrqa.com)