

VCCI

ANNUAL REPORT

2017

April 2017 - March 2018

English



VCCI Council
<http://www.vcci.jp>



VCCI Council



VCCI Council

The purpose of this corporate body is to promote, in cooperation with related industries, the voluntary control of radio disturbances emitted from ITE on the one hand, and improvement of robustness of ITE against radio disturbances on the other hand, so that the interest of Japanese consumers are protected with respect to anxiety-free use of ITE.

Description

- | | |
|---|--|
| <p>1 Formulate basic policies on voluntary control of electromagnetic disturbances emitted by ITE</p> <p>2 Coordinate the interest of member organizations and liaise with government and related agencies</p> <p>3 Receive and file Conformity verification report with voluntary control standards and issue reception acknowledgement in return</p> <p>4 Carry out market surveillance (with sampling test commissioned to third party testing laboratories)</p> <p>5 Regularly review the suitability of the Technical Requirements for necessary revisions by research and experiments and share the results with members</p> | <p>6 Hold measurement skills courses to prepare members engineers for adequate conformity assessment</p> <p>7 Study trends in overseas EMC regulations and seek opportunities for mutual recognition agreement.</p> <p>8 Examine credentials of measurement laboratories and facilities based on the measurement facilities registration system</p> <p>9 Do PR activities for general consumers and reach out to potential companies and associations for encouraging them to join VCCI</p> <p>10 Administer other programs for effective operations of the voluntary control</p> |
|---|--|

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Greetings



President of VCCI
Keiichi Kawakami

Thank you for your continuing support for the activities of VCCI. This is a report on our activities in FY 2017.

The world's largest CPS and IoT Exhibition "CEATEC JAPAN 2017" was held in October last year, where we saw the announcement of cross-industry initiatives for achieving "Society 5.0", with AI and big data looking promising in their potential for social transformation. "Society 5.0", a.k.a. a "super-smart society", is defined as a society where necessary goods and services are provided to those who need them, when and as much as needed, where various social needs are addressed in minute detail. A society where anyone can receive high-quality services regardless of differences like age, gender, region, and language, and where we can all live healthy and comfortable lives. We have high hopes for the IT and electronics industry, which holds deep ties to VCCI, in leveraging its growing technological prowess in an increasingly competitive world, helping tackle issues faced by the developed country of Japan while creating a platform for achieving "Society 5.0", and continuing to help solve world problems. Meanwhile, as the social implementation of CPS and IoT boosts convenience throughout the world, promoting network expansion and diversified use of radio, we expect to face new challenges such as ensuring safety and cybersecurity. VCCI's role in building clean electromagnetic environments will prove crucial to solving these problems.

Amidst this environment, VCCI (formerly inaugurated as the Voluntary Control Council for Information Technology Equipment) has been engaged in activities to prevent failures in IT devices caused by interference, and protect the profits of Japanese consumers using electrical and electronic devices. VCCI celebrated its 30th anniversary in December 2015, an achievement that was only possible with the help of our associated government agencies and organizations, as well as our members' support. My deepest thanks to you all.

VCCI's activities are driven by the trust inspired by the VCCI mark. Specifically, our operation is underpinned by our three "pillars" of regulation: our system for registering measurement facilities, our system of self-declaration by member-filed conformity verification reports, and our fair market sampling tests. I am convinced that the VCCI mark could only earn its trust thanks to all of our members' earnest support and excellent compliance with our regulations. Going forward, we will continue to help build clean electromagnetic environments through these activities.

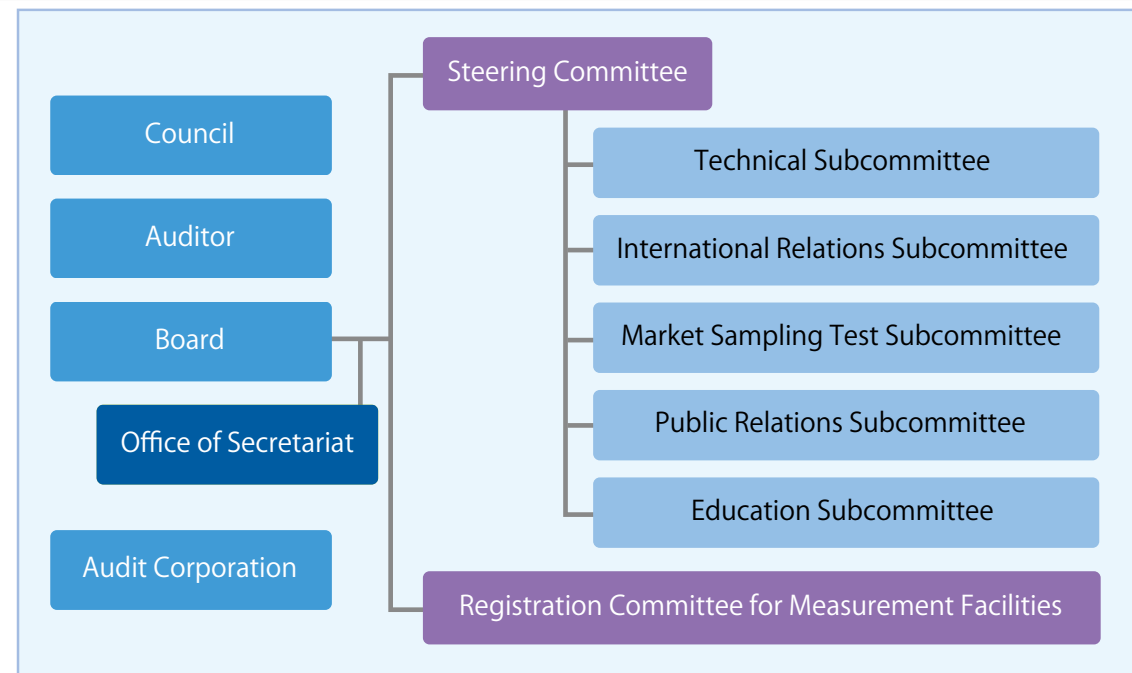
The international standards for multimedia device emissions, CISPR 32 Edition 2, was issued in March 2015, on which the Information and Communications Council of the Ministry of Internal Affairs and Communications reported in December 2015. The standards for multimedia device emissions were issued to integrate the individual standards for IT devices and AV equipment. VCCI issued the new VCCI regulations based on these new international standards in November 2016, and has begun putting them into practice. For a period in FY 2017, some overlap was allowed with the old regulations, but due to increased volume of conformity verification reports for the new VCCI rules and facility registration applications, all VCCI members are now assumed to have made a smooth transition to the new regulations. We will also continue to promote awareness of the new VCCI rules in the future, through briefing sessions, seminars, and workshops in Japan and overseas.

Improving awareness of the VCCI mark worldwide and contributing to international standards for electromagnetic interference are an important part of VCCI's work in promoting voluntary control. VCCI holds an International Forum where speakers are invited from overseas electromagnetic interference regulatory authorities. VCCI also runs overseas workshops, exchanges views with overseas regulatory authorities, and builds these based on research results obtained through member activities, which are then announced in related associations overseas. VCCI helps to enact international standards by continuously dispatching experts to committees involved with CISPR. Through these activities, we hope to improve awareness of VCCI overseas into the future. Even in Japan, VCCI has held seminars at the Info-Communication Promotion Month event hosted by the Ministry of Internal Affairs and Communications, as well as seminars and educational and training activities in Japanese industrial technology centers. VCCI has also provided technical training to engineers working with electromagnetic interference and improved awareness of the VCCI mark through relevant training courses, promotion of educational activities, and PR activities at technology exhibitions.

With our members' cooperation, we hope to continue addressing trends in technological innovation in CPS and IoT which will be integral to radio applications, and their social implementation, thereby helping to build clean electromagnetic environment as a foundation for a CPS and IoT society. We will make sure our activities prove meaningful to our members, and in turn to Japanese consumers.

We hope you will continue to support us going forward.

Organization



Councilor

Chairman of Councilor

Masamitsu Tokuda

Honorary Professor, Tokyo City University; Visiting Co-researcher, Graduate School of the University of Tokyo

Councilor

Akira Ohya

Formerly of the Japan Broadcasting Corporation

Councilor

Kazuo Kaneko

Former President of The Association for Overseas Technical Cooperation and Sustainable Partnerships

Councilor

Ryuji Koga

Honorary Professor, Okayama University

Councilor

Kazuo Izumi

Secretary General, Institute for the Information Industry (III)

Councilor

Hiroyuki Osaki

Vice Dean and Professor, Graduate School of the University of Tokyo

Councilor

Osamu Fujiwara

Honorary Professor, Nagoya Institute of Technology; Visiting Professor, University of Electro-Communications

Councilor

Takeshi Furutani

Executive Director, Japan Electrical Safety & Environment Technology Laboratories

Director

President

Keiichi Kawakami

Executive Director, Japan Electronics and Information Technology Industries Association

Director

Yasuyoshi Katayama

Managing Director, Communications and Information Network Association of Japan

Director

Hideo Nakanishi

Representative Director and Managing Director, Japan Business Machine and Information System Industries Association

Director

Akira Oda

Executive Director, VCCI Council

Auditor

Auditor

Satoshi Shibata

Formerly of Panasonic Corporation, Former Chairman of VCCI Steering Committee

Auditor

Hiroaki Hasegawa

Formerly of DOCOMO Datacom, Inc.

Audit Corporation

Audit Corporation

ERNST & YOUNG SHINNIHON LLC

As of March 31, 2018

Committees

Steering Committee

Oversees subcommittees' activities and endorses their resolutions, handles general managerial matters of VCCI, and makes proposals to the Board of Directors.



Chairman
Shinji Mine
NEC Platforms, Ltd.

Market Sampling Test Subcommittee

Checks if conformity verification tests in reports filed to VCCI are conducted properly. This is done based on the results of measuring market samples in designated testing laboratories.



Chairman
Shin Kanno
NTT Advanced Technology Corporation

Registration Committee for Measurement Facilities

Inspects VCCI members such as measuring facilities against the VCCI requirements, and determines the validity of their membership based on the results. This ensures that conformity verification is fulfilled for EMI measurement sites and instruments.



Chairman
Hiroshi Inoue
Honorary Professor, Akita University

Technical Subcommittee

Sets and maintains the VCCI Technical Requirements covering standardized EMI limits, measurement methods, and conformity verification procedures which underpin the scheme of voluntary control of electromagnetic interference to preserve sustainable radio environments surrounding multimedia equipment.



Chairman
Minoru Hirahara
Fujitsu Ltd.

Public Relations Subcommittee

Promotes awareness of VCCI and its activities, for example by working as creator and admin of the VCCI website, issuing the seasonal newsletter "VCCI Dayori" and annual reports in Japanese and English, creating and distributing PR brochures and calendars, and participating in exhibitions in Japan and abroad.



Chairman
Shinji Kuroda
Hitachi Information & Telecommunication Engineering, Ltd. EMC Center

International Relations Subcommittee

Liaises with related organizations overseas to appropriately communicate VCCI activities, while obtaining information on EMC-related standards and regulations across the world. This information is then relayed to members in order to optimize VCCI activities.



Chairman
Yukio Uchida
Panasonic Corporation

Education Subcommittee

Educates and trains EMC managers and measurement engineers on VCCI regulations and requirements while improving measurement techniques, by organizing technical courses and seminars.



Chairman
Minoru Hirata
Hitachi, Ltd.

As of March 31, 2018

VCCI Activities

General operations

- (1) **Promoting public awareness of new rules in CISPR 32 Edition 2**
Briefing sessions for promoting public awareness of the new rules in CISPR 32 Edition 2, stipulated and put into operation in November 2016, were held in Taiwan and the U.S., where VCCI has many overseas members. In Taiwan, a workshop was held at the same time and venue as the June 2017 event COMPUTEX TAIPEI, where the new rules were explained. In the U.S., the new rules were explained in a tutorial session by the association at the August 2017 event in Washington DC, IEEE EMC 2017.
Additionally, to promote deeper understanding of how to apply the new rules, the following guides were made effective in July 2017: "GUIDE ON PREPARING TEST REPORT (For VCCI-CISPR 32)", "GUIDE ON SELECTING SET-UP TABLE MATERIALS FOR RADIATED EMISSION MEASUREMENTS ABOVE 1 GHz", "GUIDE ON USE OF CISPR 32:2015/COR1:2016", and "GUIDANCES FOR MANAGEMENT OF MEASUREMENT FACILITIES".
- (2) **Talks with overseas government agencies and industry associations**
Considering VCCI was the first in the world to make the new operational rules in CISPR 32 Edition 2 effective in November 2016, talks were mainly about the status of various countries in applying CISPR 32 Edition 2. Talks were held with the U.S. industry association ITI in August 2017, and with RED CA, largely made up of European members, in November 2017. VCCI also spoke with the Taiwanese BSMI, including about mutual authentication, in July 2017 and February 2018.
- (3) **Overseas MOU operation**
Operation of MOU, for mutually recognizing data measured in laboratories in Japan and the U.S., is ongoing. In May 2017, MOU was updated in collaboration with the U.S. laboratory accreditation institutes NVLAP, A2LA, and ANAB. Information was also exchanged with each institute around the time of the August IEEE EMC 2017 held in Washington DC, U.S.A. As of the end of FY 2017, 79 laboratories in the U.S. and 56 laboratories in Japan have been registered using this system.
- (4) **Holding seminars**
Every year, VCCI holds seminars for announcing VCCI's latest activities and explaining the new rules of operation. In May of FY 2017, a seminar was held as the Info-Communication Promotion Month event for the Ministry of Internal Affairs and Communications. Additional seminars were held in three locations: the Gunma Industrial Technology Center, the Tokyo Metropolitan Industrial Technology Research Institute, and the Kagawa Industry Support Foundation, with the support of those prefectures' industrial technology facilities



COMPUTEX TAIPEI WS

Plenary meeting of RED CA

Standards setting

- (1) **Activities for proposing international standardization**
VCCI participated in EMC-related committees in Japan and overseas, promoting activities to reflect its opinions in the short-term and longterm challenges raised as next term's revisions to the CISPR 32 standard. VCCI also promoted activities to propose the international standardization of VHF-LISN at the CISPR, SC-A&I, and JAHG6 conferences.
As a result, eight documents relating to mains cable layouts, exclusion of intentional frequencies and spurious emissions from conducted emissions, and VHF-LISN were adopted as contributed documents to the CISPR committee.
- (2) **Technical symposium**
The technical symposium was held in January 2018 to explain the achievements of the Technical Subcommittee to VCCI's members. Theses released by international associations were also explained at the symposium. There were approximately 140 participants.

- (3) **Main activities of the Technical Subcommittee and each WG**
 - (a) **Making guides for the new rules**
Three guides for the new rules were made.
 - (b) **CISPR project WG**
VCCI issued comments after deliberation on the documents contributed and work documents relating to CISPR 32 Edition 2 and CISPR/ SC-A&I/ JAHG6. In addition, Experts who attended CISPR conferences reported to members on what was discussed.
 - (c) **Radiated EMI WG**
This WG tested the impact of measurement methods for EUTs that have radio functionality, on turning EUTs with embedded Wi-Fi functionality on and off. WG's proposals regarding the impact of differences in mains cable layouts on radiated emissions were adopted at the CISPR conference.
 - (d) **Conducted EMI WG**
This WG tested the impact of measurement methods for EUTs that have radio functionality, on conducted emissions in associated equipment (AE) with wireless power transfer functionality and the impact on measurement results of connected pair wires when measured 2W or 4W with the transformer-coupled AAN for eight wires. This WG also made documents regarding the exclusion of intentional frequencies and spurious emissions from conducted emissions, to be contributed to CISPR conferences.
 - (e) **Antenna calibration WG, Site validation WG**
The results of tests of NSA evaluations using antennas with isotropic radiation patterns, and tests of free-space antenna factor calibration methods for biconical antennas and hybrid antennas were reported to members.
 - (f) **VHF-LISN WG**
In March 2017, this WG proposed and made contribution documents to promote the international standardization of VHF-LISN. Eight VHF-LISN- related documents were made, along with two corrected drafts, one for CISPR 16-1-4, and one for CISPR 16-2-3, as work documents for VHF-LISN standardization. This WG also conducted tests on VHF-LISN calibration methods and specifications tolerance.



APEMC2017

Technical symposium

Technical Training Seminars

- To disseminate the VCCI operational rules and improve measurement techniques among member EMC managers and measurement engineers, measurement training courses were planned and put into action. FY 2017 happened to be a period when training content was being updated in accordance with the new VCCI rules, thus requiring existing seminars to have their content revised and preparation made to create new seminars. As a result, there were not as many seminars as usual, but those that were held went according to plan.
- (1) **Overview of training courses for measurement engineers in accordance with "Technical Requirements" VCCI-CISPR 32**
- The three seminars "Basic Course for Measurement Engineers", "Course for Measurement Engineers below 1 GHz", and "Applying Automatic and Manual Measurement", were held starting September, after textbook revisions were completed in the first half of the fiscal year.
- A seminar schedule was considered for FY 2018, consisting of the training courses for measurement engineers "Techniques for Measurement Above 1 GHz" and "Measurement Instrumentation Uncertainty (MIU)".
 - (2) **Details on training courses for measurement engineers held in FY 2017**
 - (a) **Basic Course for Measurement Engineers**
This was a training course for beginner measurement engineers to acquire basic knowledge. One session was held in September 2017, with 24 participants.
 - (b) **Course for Measurement Engineers below 1 GHz**
Two sessions were held in October and November 2017, with a completion certificates given to a total of 24 participants.

(c) Course on Applying Automatic and Manual Measurement

The purpose of this course was to promote deeper understanding of correct automatic and manual measurement of radiated emissions. One session was held in December 2017, with 18 participants.



Course for Measurement Engineers below 1 GHz

Basic Course for Measurement Engineers

Market Surveillance

- (1) **Market sampling tests**
Market sampling tests were conducted in accordance with the Rules for Voluntary Control Measures. A total of 100 products were tested (of which 45 were loaned and 55 were purchased), and products included personal computers, peripheral terminals, digital cameras, and LAN-related devices. Of 100 products, 97 passed and 3 failed. Information on failed products such as company name, model name, and other details will be published in the "VCCI Dayori" and VCCI website with consent from the members in question.
- | Quarters | Tests on loaned samples | | | | Tests on purchased samples | | | | Total |
|----------|-------------------------|----|----|----|----------------------------|----|----|----|-------|
| | 1Q | 2Q | 3Q | 4Q | 1Q | 2Q | 3Q | 4Q | |
| Passed | 8 | 10 | 19 | 7 | 19 | 6 | 18 | 10 | 97 |
| Failed | 1 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 3 |
| Total | 9 | 10 | 19 | 7 | 20 | 6 | 19 | 10 | 100 |
- (2) **Document inspections**
40 document inspections were performed. Test reports filed with conformity verification reports were inspected, and 2 documents were found with problems resulting in remeasurements being ordered. These test reports were acquired and conformity verifications were made.
 - (3) **Survey of use of the VCCI mark in the market**
A fact-finding survey was conducted on the use of VCCI marks in the market (1,607 models from 207 suppliers). The survey found VCCI marks on some non-VCCI-member products, and inappropriate use of the VCCI mark on some VCCI-member products. Non-member companies will be asked to join VCCI, and correction of inappropriate use of VCCI marks will be requested.

Overseas Situational Awareness Activities

- The following surveys and dissemination activities were held for overseas EMC standards:
- (1) **International Forum**
In October 6, 2017, the VCCI International Forum was held as an adjoining seminar with CEATEC. Speakers were invited from the EU, Saudi Arabia, and Taiwan, to announce the latest relevant information in their country. There were about 100 participants.
 - (2) **Update to the world ITE standards table**
A survey on the status of emissions standards and immunity standards was held in 25 countries including Japan, the U.S., Europe, China, Russia, and Australia, and results were published on the website in June 2017.
 - (3) **Start of provision of updates to members regarding trends in EMC regulations**
Survey information on world EMC trends was entered into a database, for provision to members. Updates will be made as needed starting from April 2016. Recently, "Survey of Trends in World EMC Regulations" was updated in November 2017.
 - (4) **Overseas surveys**
VCCI visited the EU Commission in April 2017 and acquired the latest information. Survey results were published on the VCCI website.



EU commission

International Forum Q&A session

PR Activities

- (1) **Updating of VCCI promotional videos**
The following three types of promotional videos were created:
 - (a) **Explanation of the VCCI mark:** Meaning of the VCCI mark, information about the Rules for Voluntary Control, scope of the rules, etc.
 - (b) **How to get the VCCI mark:** Details on VCCI activities, from joining VCCI to making reports
 - (c) **Scope of application of VCCI:** Explanation of target equipment, standards, and CISPR 32
- (2) **Participation in TECHNO-FRONTIER 2017 (April 19 to April 21, 2017, Makuhari Messe)**
- (3) **Participation in COMPUTEX TAIPEI 2017 (May 30 to June 2, 2017, Taipei)**
A VCCI booth was set up at the event. To improve awareness of VCCI and disseminate information on its activities, VCCI distributed catalogs and other information to about 500 people while answering various questions.
- (4) **Participation in CEATEC 2017 (October 3 to October 6, 2017, Makuhari Messe)**
- (5) **Illuminated billboard advertising**
To improve awareness of the VCCI mark, VCCI continuously posted illuminated billboard advertisements in JR Akihabara station and JR Osaka station.
- (6) **Advertising in the Tokyo Metro Hibiya line (train cars passing through Tobu Railway)**
Door-window stickers were submitted for Tobu Railway's 20000-series and 70000-series train cars again this fiscal year.
- (7) **Video advertisements for TV sales floors at mass retailers**
From March 2016, a 30-second video advertisement on the VCCI mark was continuously broadcast on TV sales floors in 21 Bic Camera stores across Japan, as PR for general users.
- (8) **Issuing of the newsletter "VCCI Dayori" and annual reports**
VCCI issued "VCCI Dayori" (Japanese and English) No. 125 to No.128, and published them on the VCCI website. The annual report 2016 (Japanese and English) was also issued in August 2017.



CEATEC 2017

Illuminated billboard in Osaka station

Measuring site registration operations

The status of registrations this fiscal year is shown in the following section. Registrations are effective for a period of three years, and those who wish to stay members renew their registration every three years.

- (1) **Number of actually registered facilities in FY 2017**
- Number of facilities registered via inspections: 378 (of which 319 were those renewed)

Category of measurement facility	Number of Registered Facilities	FY 2016 Result
Radiated EMI	116	(106)
Mains port conducted EMI	97	(112)
Telecommunication port conducted EMI	83	(77)
Radiated EMI above 1GHz	82	(79)

- Number of registered laboratories accredited by accreditation bodies:109

- (2) **Total number of registered facilities (as of March 31, 2018)**
- Total number of facilities registered via inspections: 1,225

Category of measurement facility	Number of Registered Facilities	FY 2016 Result
Radiated EMI	336	(344)
Mains port conducted EMI	337	(374)
Telecommunication port conducted EMI	262	(259)
Radiated EMI above 1GHz	290	(286)

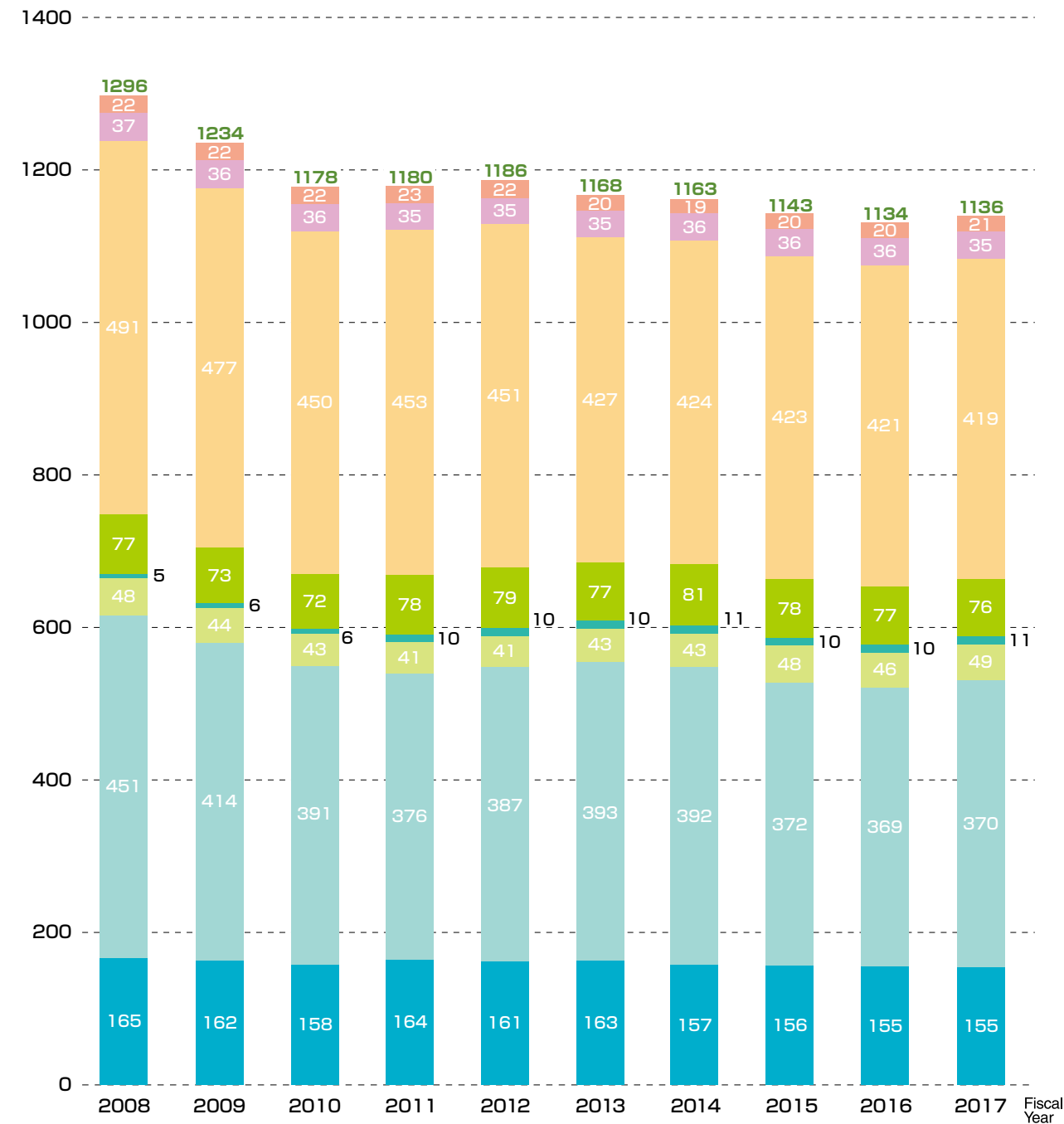
- Number of registered laboratories accredited by accreditation bodies:135

(Note)

- A2LA: American Association for Laboratory Accreditation
- ANAB: ANSI-ASQ National Accreditation Board
- BSMI: Bureau of Standards, Metrology & Inspection
- MIU: Measurement Instrumentation Uncertainty
- NSA: Normalized Site Attenuation
- NVLAP: National Voluntary Laboratory Accreditation Program
- RED CA: Radio Equipment Directive Compliance Association
- VHF-LISN: Very High Frequency - Line Impedance Stabilization Network

Trends in Membership

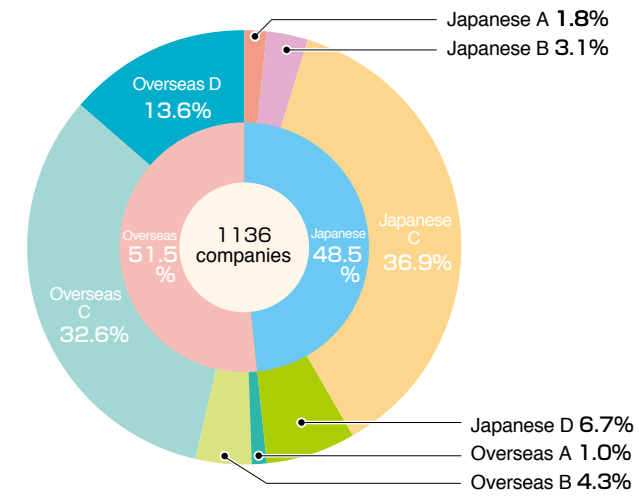
Number of member companies



Category: Japanese A Japanese B Japanese C Japanese D
Overseas A Overseas B Overseas C Overseas D

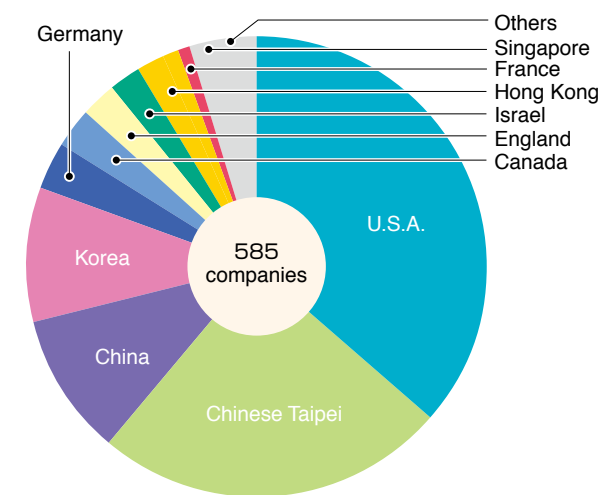
Category	Applicable to -
A members (regular members)	Chairmen and Vice Chairmen of the three groups constituting VCCI (JEITA, JBMIA, CIAJ) and equivalent companies (companies that file 70 or more conformity reports a year)
B members (regular members)	Companies that file 10 or more conformity reports a year
C members (regular members)	Companies that file fewer than 10 conformity reports a year
D members (supporting members)	Companies that do not file conformity reports, or do not ship products (mainly measurement facility companies or companies that only collect information)

Composition of Members



Member category	Number of Members	%
Japanese A	21	1.8%
Japanese B	35	3.1%
Japanese C	419	36.9%
Japanese D	76	6.7%
Overseas A	76	1.0%
Overseas B	49	4.3%
Overseas C	370	32.6%
Overseas D	155	13.6%
Total	1136	100%

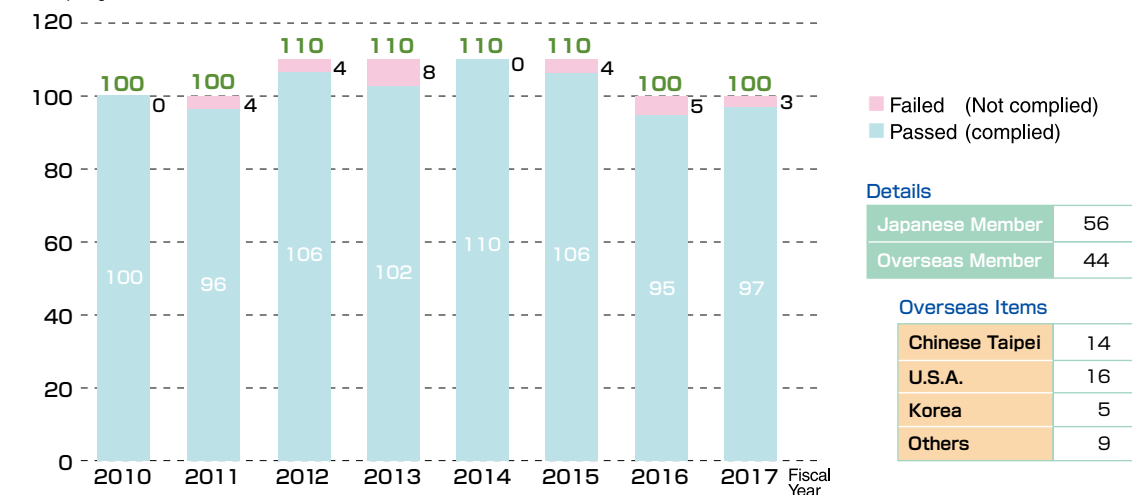
Composition of Overseas Members



Countries	Number of Members
U.S.A.	213
Chinese Taipei	145
China	58
Korea	56
Germany	19
Canada	16
England	14
Israel	14
Hong Kong	12
France	7
Singapore	4
Others	27
Total	585

Trends in Market Sampling Test Results

Number of market sampling test



Failed (Not complied)
Passed (Complied)

Details

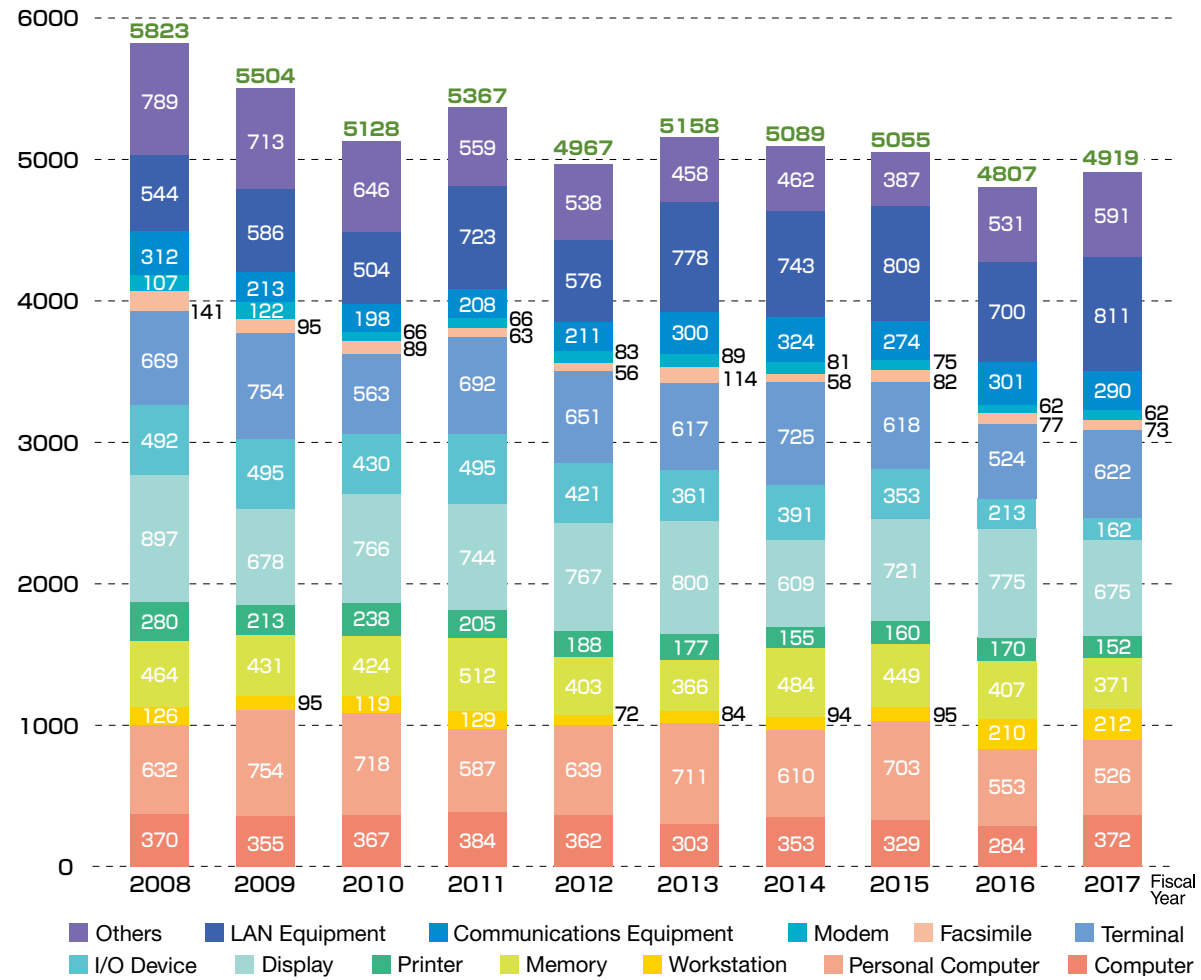
Japanese Member	56
Overseas Member	44

Overseas Items

Chinese Taipei	14
U.S.A.	16
Korea	5
Others	9

Trends in Number of Filed Conformity Reports, by Product

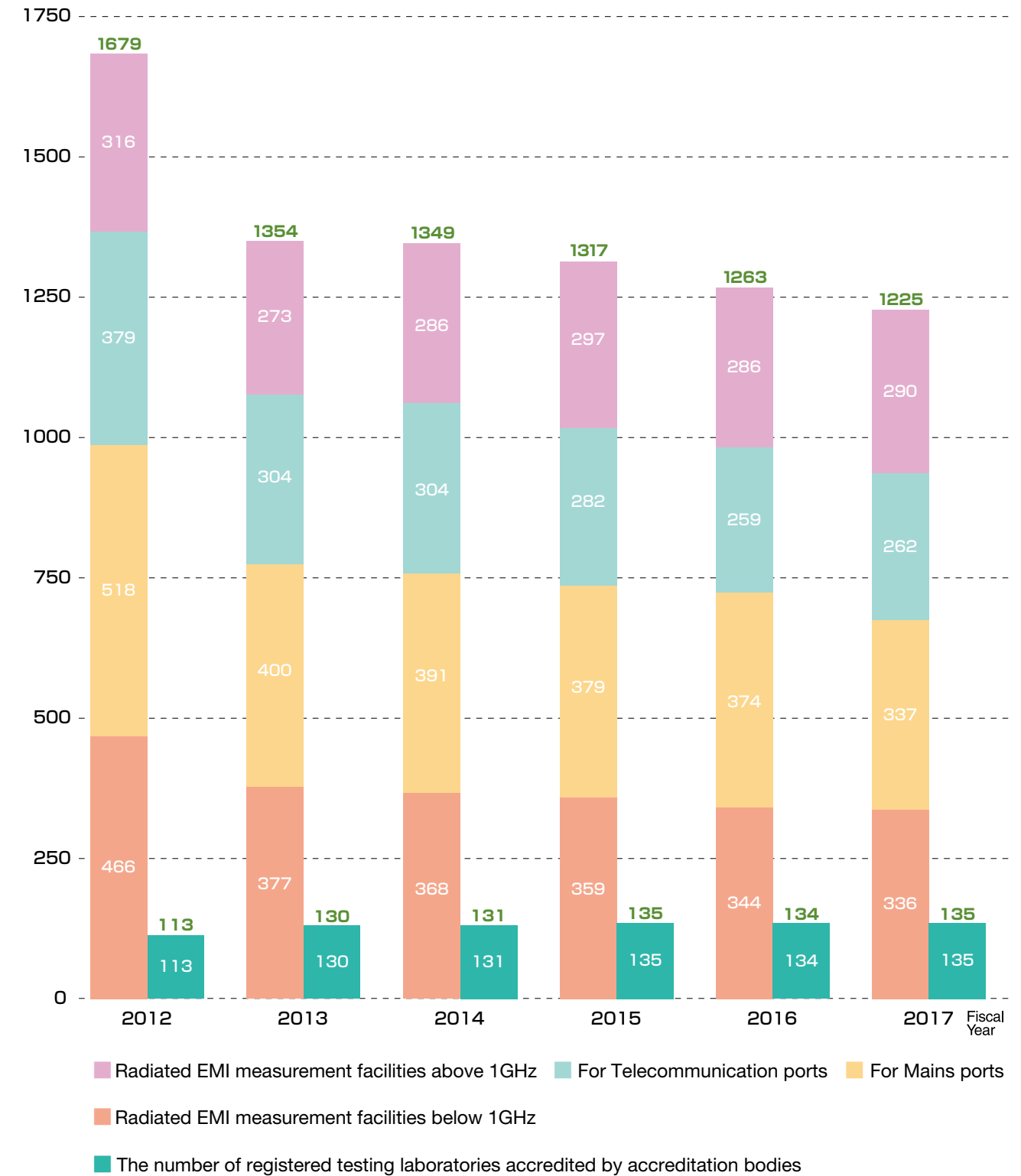
Number of filed report of conformance submitted



Trends in the Total Number of Registered Measurement Facilities as of the Fiscal Year End

Registered

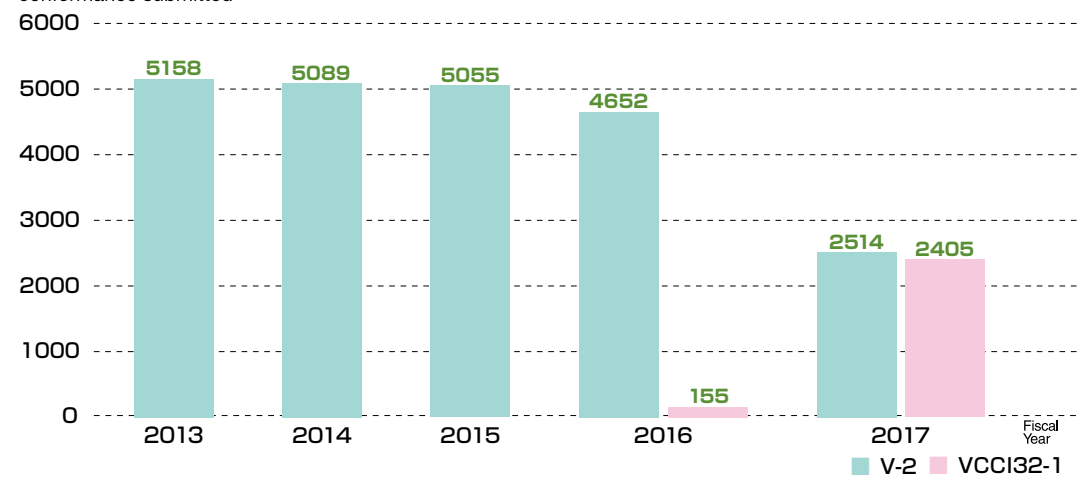
2000



Number of Filed Conformity Reports for VCCI 32-1:2016

Number of filed report of conformance submitted

VCCI 32-1:2016 was effectuated from November 2016



VCCI Member List

Regular Members

<Japanese>

No. Company Name

[A]	2977 CCP Co., Ltd.
2323 A.T. Works, Inc.	2928 Cellcross Co., Ltd.
2478 A2 Corporation	3678 Cellstar Industries Co., Ltd.
1355 ABIT CORPORATION	2395 Central Engineering Corporation
1882 ADVA Optical Networking Corp.	3555 CENTURY SYSTEMS Co., Ltd.
1898 Advanced Communications Co., Ltd.	64 CHO ELECTRONICS CO., LTD.
35 ADVANTEST CORPORATION	220 CITIZEN SYSTEMS JAPAN CO., LTD.
47 AIPHONE CO., LTD.	3155 Clarion Co.,Ltd.
222 AISIN SEIKI CO., LTD.	71 COMOTA CO., LTD.
2335 ALAXALA Networks Corporation	1206 CONTEC CO., LTD.
459 ALEXON CO., LTD.	3232 CPI Technologies, Inc.
1317 ALF INC.	1231 CTCSP Corporation
231 Allied Telesis K.K.	[D]
3357 ALNETZ CO., LTD.	178 D&M Holdings Inc.
76 ALPS ELECTRIC CO., LTD.	2803 Dai Nippon Printing Co., Ltd.
43 ANRITSU CORPORATION	3800 DAIKIN INDUSTRIES, LTD
2676 ANRITSU NETWORKS CO., LTD.	2839 Data Controls Inc.
3796 ANZON CORP.	1978 Datacard Japan Ltd.
218 AOI Development Center, Ltd.	2496 DDS, Inc.
3682 AOPEN JAPAN INC.	1758 DENSO WAVE INCORPORATED
147 APRESIA Systems, Ltd.	2289 DION Corporation
3047 Array Corporation	3288 dit Co., Ltd.
2125 Artiza Networks, Inc.	2861 DKSH Japan K.K.
3801 Asahi Net, Inc.	348 DMG MORI B.U.G. CO., LTD.
3197 ASCON CO., LTD.	419 Duplo Seiko Corporation
1489 ATM Japan, Ltd.	3848 DUX Inc.
2655 Atmark Techno, Inc.	3476 DX ANTENNA CO., LTD.
3532 AUI Co., Ltd.	1026 Dyden Corporation
1399 AVAL NAGASAKI CORP.	[E]
1478 Avaya Japan Ltd.	3378 e-Broad Communications Inc.
1147 Axis Communications K.K.	3856 ECO LIFE ENGINEERING CO., LTD.
[B]	137 EIZO Corporation
950 BANDAI CO., LTD.	3254 ELECOM CO., LTD.
2321 Barracuda Networks Japan K.K.	1870 ELECS. INDUSTRY CO., LTD.
3477 Benesse Corporation	3052 ELSA Japan Inc.
736 BILLCON CORPORATION	3593 Empathy Co., Ltd.
2993 BIOS Corporation	1525 EPSON DIRECT CORPORATION
2957 Bktel Pacific Rim (Japan) Inc.	2299 e-trees. Japan, Inc
2683 BMT	1091 EXCEL CO., LTD.
913 Brains Corporation	[F]
21 Brother Industries, Ltd.	2680 Fanatic Computers Inc.
933 BUFFALO INC.	3576 Fibergate Inc.
[C]	3233 Fon Japan K.K.
441 CANON ELECTRONICS INC.	101 FOSTER ELECTRIC CO., LTD.
1386 CANON FINETECH NISCA INC.	51 FUJI ELECTRIC CO., LTD.
49 Canon Inc.	2331 Fuji Electric Co., Ltd.
883 Canon Marketing Japan Inc.	67 Fuji Xerox Co., Ltd.
90 Canon Production Printing Systems Inc.	516 Fuji Xerox Manufacturing Co., Ltd.
3129 Cansystem Co., Ltd.	118 FUJIFILM Corporation
54 CASIO COMPUTER CO., LTD.	670 FUJIFILM Imaging Systems Co., Ltd.
3810 CASO Inc.	253 Fujikura Ltd.
3228 Cathay Tri-Tech., Inc.	704 Fujikura Solutions Ltd.

3386 FUJITSU COMPUTER TECHNOLOGIES LIMITED
1500 FUJITSU FRONTTECH LIMITED
20 FUJITSU ISOTEC LIMITED
1833 FUJITSU KANSAI-CHUBU NET-TECH LIMITED
65 FUJITSU LIMITED
1650 FUJITSU NETWORK SOLUTIONS
3696 FUJITSU SOCIAL LIFE SYSTEM LIMITED
34 FUNAI ELECTRONIC CO., LTD.
2722 FURUNO ELECTRIC CO., LTD.
1561 FURUNO SYSTEMS Co., Ltd.
2922 FUTECH INC
3355 FUTURE CONNECT, LTD.
1138 FXC Inc.
[G]
1526 GINGA SYSTEM CO., LTD.
3765 GLBB JAPAN
707 GLORY AZ System Co., LTD.
95 GLORY LTD.
3686 Godspeed. Co., Ltd
2979 Golden Micro Systems Co.
3802 G-Printec Inc.
88 GRAPHTEC CORPORATION
1728 GREEN HOUSE CO., LTD.
3065 Gridmark Inc.
85 GS Yuasa International Ltd.
[H]
2242 hagiwara electric co., ltd
2837 Hagiwara Solutions co., Ltd.
3451 HAKARU PLUS CORPORATION
2791 HANDREAMNET JAPAN
2740 HARVEST CO., LTD.
6 Hewlett-Packard Japan, Ltd.
2701 HighTechSystem Co., Ltd.
198 HIRAKAWA HEWTECH CORP.
2549 Hitachi IE System Co., Ltd.
3273 Hitachi Industry & Control Solutions, Ltd.
1083 Hitachi Information & Communication Engineering, Ltd.
1596 Hitachi Keiyo Engineering & Systems, Ltd.
52 Hitachi Kokusai Electric Inc.
3255 Hitachi Systems Field Services, LTD
2692 Hitachi Terminal Mechatronics, Corp
371 Hitachi USLI Systems Co., Ltd.
2 Hitachi, Ltd.
1850 Hitachi-LG Data Storage, Inc.
2347 Hitachi-Omron Terminal Solutions, Corp
3079 HOCHIKI CORPORATION
1518 Hosiden Corporation
3316 HOYA CORPORATION PENTAX Life Care Division
3671 HOYA Service Corporation
3638 HP Japan Inc.
2629 HYTEC INTER Co., Ltd.
[I]
3269 iB Solution Co., Ltd.
23 IBM Japan, Ltd.
1329 ICOM Inc.

3438 iD corporation
3494 IDEC CORPORATION
3073 IDK Corporation
3153 IDX Company, Ltd.
151 Ikegami Tsushinki Co., Ltd.
1191 IMAGENICS. CO., LTD.
3280 impactTV. INC
3493 INABA DENKI SANGYO CO., LTD.
808 iND Co., Ltd.
1429 Infinico Corporation
3768 INNOTECK CORPORATION
338 Intel K.K.
3775 Interface Corporation
1326 I-O DATA DEVICE, INC.
3732 IOT Co., Ltd.
826 IRIICHI TECHNOLOGIES INC.
946 ISA Co., Ltd.
1864 ISHIIHYOKI CO., LTD.
758 ITO ELECTRONIC INDUSTRY CO., LTD.
2978 ITUS Japan Co., Ltd
14 IWATSU ELECTRIC CO., LTD.
1614 IWATSU MANUFACTURING CO., LTD.
3747 IWAYA CORPORATION
[J]
375 Janome Sewing Machine Co., Ltd.
262 Japan Aviation Electronics Industry, Limited
436 JAPAN CASH MACHINE CO., LTD.
874 Japan Electronics Ind., Inc.
96 Japan Radio Co., Ltd.
1836 Japan Telegartner Limited
460 JB Advanced Technology Corporation
30 JVC KENWOOD Corporation
3751 JVC KENWOOD Public & Industrial Systems Corporation
[K]
3769 K.K.FOVE
2381 KABUTOYAMA WORKS CO., LTD
202 KAGA ELECTRONICS CO., LTD.
3664 KAMETSU CORP.
3849 KANAI ELECTRONIC APPLIANCE Co., Ltd.
1488 Kanematsu Electronics Ltd.
229 KATSURAGAWA ELECTRIC CO.,LTD.
1609 Kawamura Electric Inc.
841 KDDI Corporation
1339 KEYENCE CORPORATION
1651 Keysight Technologies Japan G.K.
3256 KING TSUSHIN KOGYO CO.,LTD
865 KINGJIM CO., LTD.
3208 Kinkei System Corporation
539 Kobayashi Create Co., Ltd.
160 Kodak Alaris Japan Corporation
1699 KOGA ELECTRONICS CO.
1067 KOITO ELECTRIC INDUSTRIES, LTD.
888 KOKUYO CO., LTD.
908 KONICA MINOLTA JAPAN CO., LTD.
172 KONICA MINOLTA, INC.
2506 KOSHIN DENKI KOGYO CO., LTD.
3762 Kpnetworks Ltd.
2265 KUBOTEK CORPORATION
2537 Kumahira Co., Ltd.

1390 KUZUMI Electronics, Inc.
209 KYOCERA Document Solutions Inc.
2394 KYOKKO SEIKO CO., LTD.
2138 KYOWA TECHNOLOGIES CO., LTD
[L]
136 LAUREL BANK MACHINES CO., LTD.
2573 Laurel Intelligent Systems Co., Ltd.
2420 Lenovo (Japan) Ltd.
3611 Lenovo Enterprise Solutions Ltd.
3004 LET's corporation
3797 LINE Corporation
3706 LIXIL Housing Exterior Division
102 Logitech Corporation
3266 Logitech INA Solutions Co., Ltd.
3690 LVHM WATCH & JEWERY JAPAN K.K.
[M]
3594 MASPRO DENKOH CORP.
1118 MAX CO., LTD.
210 Maxell, Ltd.
2955 MC SECURITY Co., Ltd.
976 MegaChips Corporation
116 MEIDENSHA CORPORATION
3308 Micro Solution CO., LTD.
2360 Miharuru Communications Inc.
311 MIMAKI ENGINEERING CO., LTD.
312 MINATO HOLDINGS. INC
344 MintWave Co., Ltd.
1932 MITACHI CO., LTD.
8 MITSUBISHI ELECTRIC CORPORATION
594 MITSUBISHI Electric Engineering Co., Ltd.
1646 Mitsubishi Electric Information Network Corporation
2044 MITSUBISHI ELECTRIC SYSTEM & SERVICE CO., LTD.
3050 Mitsubishi Paper Mills Limited
3557 mitsuboshi diamond industrial co., Ltd.
3789 Mitsui Knowledge Industry Co., Ltd.
214 MITSUI ZOSEN SYSTEMS RESEARCH INC.
584 MITSUMI ELECTRIC CO., LTD.
3715 Miura Corporation
2031 MIWA LOCK CO., LTD.
282 MIYAKAWA ELECTRIC WORKS LTD.
3866 Mobile Techno Corp.
3258 mofiria Corporation
33 MURATA MACHINERY, LTD.
123 Murata Manufacturing Co., Ltd.
204 MUTOH INDUSTRIES, LTD.
[N]
82 NAGANO JAPAN RADIO CO., LTD.
2505 NAGATSUKA
716 NAGOYA ELECTRIC WORKS CO., LTD.
3290 NAITO DENSEI MACHIDA MFG.CO.,LTD.
1163 NAKAJIMA ALL PRECISION CO., LTD.
146 NAKAYO, INC.
3546 NANABOSHI ELECTRIC MFG. CO., LTD.
126 NCR Japan Ltd.
2196 NCR Services Japan, Ltd
3870 NEC Communication Systems, Ltd.
1 NEC Corporation
1394 NEC Display Solutions, Ltd.

3296 NEC Embedded Products, Ltd.
2729 NEC Magnus Communications
825 NEC Network and sensor Systems, Ltd
1781 NEC Networks & System Integration Corporation
567 NEC Personal Computers, Ltd.
25 NEC Platforms, Ltd.
2644 NEC Solution Innovators, Ltd.
729 neix, Inc.
498 NEWTECH CO., LTD.
450 NHK SPRING CO., LTD.
3836 NICHIEI INTEC CO., LTD
1566 Nichigaku Co., Ltd.
2989 NIDEC SANKYO CORPORATION
2807 NIE Co., Ltd.
130 Nihon Unisys, Ltd.
356 NIKON CORPORATION
1671 NIKON VISION CO., LTD.
1363 NIKON-TRIMBLE CO., LTD.
119 NINTENDO CO., LTD.
2221 NIPPON ANTENNA CO., LTD
953 Nippon Chemi-Con Corporation
621 NIPPON CONLUX CO., LTD.
844 Nippon Printer Eng. Inc.
637 NIPPON SYSTEMS DEVELOPMENT Co., Ltd.
279 NIPPON TELEGRAPH AND TELEPHONE CORPORATION(NTT)
1303 NIPPON TELEGRAPH AND TELEPHONE EAST CORPORATION
1278 NIPPON TELEGRAPH AND TELEPHONE WEST CORPORATION
186 Nisca Corporation
3511 Nokia Solutions and Networks Japan Corp.
3506 NORITAKE ITRON CORPORATION
394 NTT Advanced Technology Corporation
1275 NTT Communications Corporation
329 NTT DATA CORPORATION
457 NTT Electronics Corporation
3088 NTT FIELD TECHNO CORPORATION
3643 NTTDATA INTELLILINK CORPORATION
[O]
443 OA LABORATORY CO., LTD.
3821 OCT Co., Ltd.
3284 OFFICE24 CO., LTD.
197 Oi Electric Co., Ltd.
307 Oki Communication Systems Co., Ltd.
624 Oki Data CORPORATION
9 Oki Electric Industry Co., Ltd.
1469 OKidata · Infotech Inc.
463 OLYMPUS CORPORATION
56 OMRON Corporation
2857 OMRON HEALTHCARE CO., LTD.
3663 Onkyo & Pioneer Corporation
3662 Onkyo & Pioneer Innovations Corporation
3237 ONKYO DIGITAL SOLUTIONS CORPORATION
1812 OPTOELECTRONICS Co., Ltd.
223 Oracle Information Systems (Japan) G.K.
[P]
15 Panasonic Corporation
1780 Panasonic Eco Solutions Networks Co., Ltd.
138 Panasonic Healthcare Co., Ltd.
3790 Panasonic Mobile Communications Co., Ltd.
17 Panasonic System Solutions Japan Co., Ltd.

2234 PENTE Co., Ltd.	2074 SHINJUKU JAPANESE LANGUAGE INSTITUTE	3741 Toshiba Client Solutions CO., LTD.	3853 Acrox Technologies Co., Ltd. (CHINESE TAIPEI)	3488 Bluebird Inc. (KOREA)	2754 Dialogic (US) Inc. (USA)
144 PFU Limited	73 SHINKO SEISAKUSHO CO., LTD.	244 TOSHIBA DIGITAL SOLUTIONS CORPORATION	2353 A-DATA Technology Co., Ltd.(CHINESE TAIPEI)	3615 b-plus GmbH (GERMANY)	671 Digi International Inc. (USA)
302 PHOTRON LIMITED	3673 Shinsei Corporation	3825 Toshiba Electronic Device & Storage Corporation	3515 Adtran Inc. (USA)	1809 Broadcom Corporation (USA)	3777 Digital Check Corporation (USA)
3104 PicoCELA Inc.	341 SHINSEI INDUSTRIES CO., LTD.	3459 Toshiba Global Commerce Solutions Holdings Corporation	2952 Advanced Card Systems Limited (HONG KONG)	2766 Brocade Communications Systems Inc. (USA)	3422 Digital View Limited (HONG KONG)
11 PIONEER ELECTRONIC CORPORATION	2868 SHOFU INC.	37 Toshiba Infrastructure Systems & Solutions Corporation	3709 ADVANCED-CONNECTEK INC. (ACON) (CHINESE TAIPEI)	3184 BYD Precision Manufacture Co., Ltd. (CHINA)	1461 DIVA Laboratories, Ltd. (CHINESE TAIPEI)
1448 Pixela Corporation	1922 SIGMA CORPORATION	1939 TOSHIBA LIFESTYLE PRODUCTS & SERVICES CORPORATION	1320 ADVANTECH CO., LTD. (CHINESE TAIPEI)	[C]	448 D-Link Corporation (CHINESE TAIPEI)
1364 Planex Communications, Inc.	434 silex technology, Inc.	3403 TOSHIBA LIGHTING & TECHNOLOGY CORPORATION	3822 Advoli Limited (HONG KONG)	3755 Cadence Design Systems, Inc. (USA)	3326 DMX, LLC. d/b/a Mood Media (USA)
3628 Plat' Home Co., Ltd.	153 SINFONIA TECHNOLOGY Co., LTD.	3804 Toshiba Memory Corporation	3487 Aerohive Networks, Inc. (USA)	3654 C+A Global (USA)	3723 dnp denmark as (DENMARK)
545 PLUS Corporation	3854 SINKA Corporation	5 Toshiba Platform Solution Corporation	3419 AiSolution (KOREA)	2135 佳能電產香港有限公司 (HONG KONG)	3868 DUPLICALL CO., LIMITED (CHINA)
3605 Plusone Global Ltd.	2093 Sknet Corporation Ltd.	48 TOSHIBA TEC CORPORATION	3201 AJA Video Systems Inc. (USA)	3630 Canon Korea Business Solutions Inc. (KOREA)	[E]
2661 Primagest, Inc.	3502 Smart Solution Technology, Inc.	164 TOTOKU ELECTRIC CO., LTD.	2383 Alpha Networks Inc. (CHINESE TAIPEI)	2354 CastleNet Technology Inc. (CHINESE TAIPEI)	3791 EDGECORE NETWORKS CORPORATION (CHINESE TAIPEI)
2041 Princeton Ltd.	795 SMK Corporation	797 Touch Panel Systems K.K.	1565 AMD (CANADA)	3449 Castles Technology Co., Ltd.(CHINESE TAIPEI)	2628 Edgewater Networks, Incorporated (USA)
3840 Project Ryukyu Co., Ltd	3872 SNK CORPORATION	3018 Transaction Media Networks Inc.	2988 Amphenol Corporation - Amphenol AssembleTech Division (USA)	3035 CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. (CHINA)	1482 Edimax Technology Co., Ltd. (CHINESE TAIPEI)
[Q]	3247 SoftBank Corp.	3382 Transcend Japan Inc.	2873 Ampronix Inc. (USA)	3679 Celestica Technology Consultancy (Shanghai) Co., Ltd. (CHINA)	3672 Elatec GmbH (GERMANY)
3471 QUADRAC Co., Ltd.	3676 Soltec. Japan. Limited	2269 Transtron Inc.	683 Amtran Technology Co., Ltd. (CHINESE TAIPEI)	3028 Cell Technology Limited (HONG KONG)	537 Electronics for Imaging, Inc. (USA)
2651 Qualica Inc.	93 SONY CORPORATION	2309 Trend Micro Incorporated	3674 Apacer Technology Inc. (CHINESE TAIPEI)	2015 Check Point Software Technologies Ltd. (ISRAEL)	3608 Elgato Systems GmbH (GERMANY)
2203 QUIXUN PRODUCTS CO., LTD.	856 Sony Interactive Entertainment Inc.	[U]	400 APC by Schneider Electric (USA)	2974 Chelsio Communications, Inc. (USA)	877 Elitigroup Computer Systems Co., Ltd. (CHINESE TAIPEI)
[R]	3620 Sony Mobile Communications Inc.	907 UCHIDA YOKO CO., LTD.	2656 Applanix Corporation (CANADA)	1638 Cheng Uei Precision Industry Co., Ltd. (CHINESE TAIPEI)	1068 Emulex Corporation (USA)
763 RATO Systems, Inc.	269 SORITON SYSTEMS K.K.	582 UMEZAWA TECHNICAL LABORATORY CO., LTD.	482 Apple, Incorporated (USA)	2462 Cherry Americas, LLC (USA)	3457 Ergotron, Inc. (USA)
3843 Relay2 Japan K.K.	521 SOSHIN ELECTRIC CO., LTD.	2045 UNIADDEX, Ltd.	3858 Applied Medical Resources Corporation (USA)	636 Cherry GmbH (GERMANY)	3823 ESSENCE LIMITED (KOREA)
2760 Renesas Electronics Corporation	3864 Southco Japan Limited	3202 Unipulse Corporation	2431 Apricorn, Inc. (USA)	882 CHICONY ELECTRONICS CO., LTD. (CHINESE TAIPEI)	1080 EtherWAN Systems Inc. (CHINESE TAIPEI)
16 Ricoh Co., Ltd.	180 STAR MICRONICS CO., LTD.	3144 Unitech Japan co., Ltd.	3027 Arista Networks, Inc. (USA)	3305 CHRISTIE DIGITAL SYSTEMS CANADA INC. (CANADA)	2732 EVOLIS (FRANCE)
690 RICOH IMAGING COMPANY, LTD.	2575 StoreNet Corp.	2087 UNITEX Corporation	1627 ARRAY NETWORKS, INC. (USA)	2846 Ciena (USA)	3787 Exablaze (AUSTRALIA)
38 RICOH INDUSTRY CO., LTD.	165 SUMITOMO ELECTRIC SYSTEM SOLUTIONS CO., LTD.	3633 UPS Solutions Co., Ltd.	3530 ARRIS (USA)	3820 CIMCON Lighting, Inc. (USA)	2889 ExaGrid Systems, Inc. (USA)
3692 RION CO., LTD.	97 SUMITOMO ELECTRIC INDUSTRIES, LTD.	[V]	2084 ARRIS International plc (USA)	2163 Cisco Systems International BV (THE NETHERLANDS)	1406 Extreme Networks, Inc. (USA)
175 RISO KAGAKU CORPORATION	1197 Sumitomo Wiring Systems, Ltd.	3578 VAO Corporation	2276 Artesyn Product Testing Services (USA)	493 Cisco Systems, Inc. (USA)	3524 Extron Electronics (USA)
59 ROLAND DG CORPORATION	1001 SUN CORPORATION	2109 VarioSecure Inc.	2148 Asian Power Devices Inc. (CHINESE TAIPEI)	3190 Citrix Systems, Inc. (USA)	[F]
1708 Routrek Networks, Inc.	3764 SUN-WA TECHNOS CORPORATION	3426 V-net Corporation Limited	1285 ASKEY COMPUTER CORP. (CHINESE TAIPEI)	3816 Clavister AB (SWEDEN)	1440 F5 Networks, Inc. (USA)
3573 RYOWA ELECTRONICS CO., LTD.	3785 SYNCLAYER INC.	[W]	3504 Aspect Software, Inc. (USA)	702 CLEVO CO. (CHINESE TAIPEI)	1926 FIMI s.r.l. (ITALY)
[S]	3570 Systemk Corporation	177 Wacom Co., Ltd.	3749 ASRockRack Incorporation (CHINESE TAIPEI)	989 Clientron Corp. (CHINESE TAIPEI)	3661 FireEye, Inc. (USA)
3774 SAC CO., Ltd.	[T]	3495 Welcat Inc.	2208 Astec International Limited (HONG KONG)	3634 CognitiveTPG, LLC. (USA)	1925 FIRICH ENTERPRISES CO. LTD. (CHINESE TAIPEI)
3043 SANDEN ADVANCED TECHNOLOGY Corporation	606 TAIYO SEIKI COMPANY., LTD.	3293 WHITE BUSINESS INITIATIVE Co.	1011 ASUSTek Computer Inc. (CHINESE TAIPEI)	3770 Cohesity, Inc. (USA)	2823 Flextronics International (Taiwan) Ltd. (CHINESE TAIPEI)
351 SANEI ELECTRIC INC.	163 TAIYO YUDEN CO., LTD.	[Y]	1149 Aten International Co., Ltd. (CHINESE TAIPEI)	3659 COLEBROOK BOSSON SAUNDERS LTD.(U.K.)	3589 FLIR COMMERCIAL SYSTEMS, INC. (USA)
83 SANKEN ELECTRIC CO., LTD.	283 TAKACOM CORPORATION	22 YAMAHA CORPORATION	3553 Atop Technologies, Inc. (CHINESE TAIPEI)	297 Compal Electronics, Inc. (CHINESE TAIPEI)	1977 Fortinet, Inc. (USA)
2881 SANWA SUPPLY INC.	326 TAKAMISAWA CYBERNETICS CO., LTD.	3287 YAMASHITA SYSTEMS Corp.	3124 ATP Electronics Taiwan Inc. (CHINESE TAIPEI)	3861 COMPUCASE ENTERPRISE CO., LTD. (CHINESE TAIPEI)	2247 Foxlink Technology Ltd. (HONG KONG)
920 SANYO DENKI CO., LTD.	3400 Takara telesystems Co., Ltd.	2292 YASUKAWA INFORMATION SYSTEMS Corporation	3464 Atrust Computer Corp. (CHINESE TAIPEI)	3486 Contec DTx Inc. (USA)	3294 Fujian Centern Information co., Ltd. (CHINA)
19 SANYO Techno Solutions Tottori CO., Ltd.	2847 TAKASAGO LTD.	150 YAZAKI CORPORATION	3222 ATTO Technology, Inc. (USA)	2240 Contela, Inc. (KOREA)	3739 FUJIFILM Visual Sonics, Inc. (CANADA)
355 SATO CORPORATION	2691 TAKENAKA ENGINEERING CO., LTD.	103 Y-E DATA INC.	2097 Audiocodes LTD. (ISRAEL)	779 Coretronic Corporation (CHINESE TAIPEI)	1468 Fujitsu Technology Solutions GmbH (GERMANY)
3799 SATSUKI CO., LTD.	3733 Tama Electronics Industry Corp.	2366 YEC, CO., LTD.	687 AVAGO Technologies (USA)	3622 Coriant Oy (FINLAND)	[G]
127 SAXA, Inc.	1973 TAMURA CORPORATION	2931 YKD CO., LTD.	3705 Avalue Technology Inc. (CHINESE TAIPEI)	3780 Cradlepoint, Inc. (USA)	3352 Gechic Corporation (CHINESE TAIPEI)
3331 SCALAR Corporation	206 TATSUNO CORPORATION	3185 Yokogawa Test & Measurement Corporation	2888 AVer Information Inc. (CHINESE TAIPEI)	3458 Cray Inc. (USA)	1524 GEMALTO SA (FRANCE)
451 SCREEN Graphic Solutions Co., Ltd.	3137 TDK Corporation	12 YUTAKA ELECTRONIC MFG. CO., LTD.	3244 Avere Systems, Inc. (USA)	3551 Crestron Electronics, Inc. (USA)	3475 GENBAND US LLC (USA)
940 SECURE-TECH CORPORATION	75 TEAC CORPORATION	[Z]	1933 AVerMedia Technologies Inc. (CHINESE TAIPEI)	2871 CTC Union Technologies Co., Ltd. (CHINESE TAIPEI)	1559 GIGA-BYTE TECHNOLOGY CO., LTD. (CHINESE TAIPEI)
3346 Seedware Corporation	3727 Technicolor Pioneer Japan K.K.	3394 ZOOM CORPORATION	3230 Avid Technology, Inc. (USA)	2499 Cyber Power Systems, Inc. (CHINESE TAIPEI)	2945 Global Scanning Denmark A/S (DENMARK)
55 SEIKO EPSON CORPORATION	3717 TECHNO BROAD, INC.	[A]	574 Avision Inc. (CHINESE TAIPEI)	3809 Cyviz AS (NORWAY)	3443 Global Scanning UK Ltd. (U.K.)
50 Seiko Instruments Inc.	2449 Techno Link Co., Ltd.	2548 A10 Networks, Inc. (USA)	585 Avocent Corporation (USA)	[D]	2630 GlobTek, Inc. (USA)
60 SEIKO PRECISION INC.	3734 Techno Science Japan Co., Ltd.	3603 Aava Mobile Oy (FINLAND)	2214 Azimuth Systems, Inc. (USA)	2486 D&T Inc. (KOREA)	2419 GOOD WAY TECHNOLOGY CO., LTD. (CHINESE TAIPEI)
3484 SEIKO Solutions Inc.	2231 Technology Link Corporation	3267 TechnoMatrYx Inc.	[B]	3654 C+A Global (USA)	3078 Google LLC (USA)
2568 SEIKO TIME SYSTEMS INC.	3267 TechnoMatrYx Inc.	174 TERAOKA SEIKO CO., LTD.	3453 Bad Elf, LLC (USA)	3693 Darfon Electronics Corp. (CHINESE TAIPEI)	3824 Goemedi Laboratories, Ltd. (CHINESE TAIPEI)
3602 SEITEC CO., LTD.	174 TERAOKA SEIKO CO., LTD.	830 THE FURUKAWA ELECTRIC CO., LTD.	2085 BARCO, INC. (USA)	2033 DASAN Network Solutions, Inc. (KOREA)	3225 Guillemot Corporation S.A (FRANCE)
777 SEIWA ELECTRIC MFG CO., LTD.	3757 The Hand Ltd.	3757 The Hand Ltd.	2995 Barco N.V. (BERGIUM)	339 DASAN Zhong Solutions, Inc. (USA)	[H]
292 SEKISUI CHEMICAL CO., LTD.	3516 TKR CORPORATION	3516 TKR CORPORATION	3708 BARUN ELECTRONICS (KOREA)	3251 DataDirect Networks, Inc. (USA)	3599 HappyOrNot Ltd. (FINLAND)
514 SEKONIC CORPORATION	179 TOEI ELECTRONICS CO., LTD.	179 TOEI ELECTRONICS CO., LTD.	2123 Belkin International, Inc. (USA)	131 Datalogic Srl (ITALY)	1918 HARMONIC INC. (USA)
13 Sharp Corporation	3583 TOKIN Corporation	3583 TOKIN Corporation	676 Benq Corporation. (CHINESE TAIPEI)	527 Dell Inc. (USA)	6 Hewlett-Packard Japan, Ltd. (JAPAN)
3338 SHIBUTANI CO., LTD.	2490 TOMY Company, Ltd.	2490 TOMY Company, Ltd.	3778 Bigben Interactive (HK) Ltd. (HONG KONG)	2804 Delphi Display Systems, Inc. (USA)	3759 HFR, Inc. (KOREA)
3167 Shin Shin Co., Ltd.	2867 TOPPAN FORMS CO., LTD.	2867 TOPPAN FORMS CO., LTD.	3725 Bi-Search International Inc. (USA)	568 DELTA ELECTRONICS, Inc. (CHINESE TAIPEI)	
3710 Shin Shin Tech. Co. Ltd.	2047 Toppan Printing Co., Ltd.	2047 Toppan Printing Co., Ltd.	3833 BIWIN STORAGE TECHNOLOGY CO., LTD. (CHINA)	3045 Delta Networks, INC. (CHINESE TAIPEI)	
193 Shindengen Electric Manufacturing Co., Ltd.	1669 Topre Corporation	1669 Topre Corporation	2964 BizLink Technology Inc. (USA)		

3736 HGST Inc. (USA)	3832 Loop Labs Inc. (USA)	[O]	1895 Raritan International B.V. Taiwan Branch (CHINESE TAIPEI)	[T]	3844 Wowza Media Systems, LLC (USA)
3059 HID Global Corporation (USA)	2757 Lumentum Operations LLC (USA)	3261 Océ Technologies B.V. (THE NETHERLANDS)	3869 Reach Robotics Ltd. (U.K.)	3271 TA Technology (Shanghai) Co.,Ltd. (CHINA)	3667 Wurdtech Security Technologies (CANADA)
3372 Hitachi Data Systems Corporation (U.K.)	[M]	3827 One Stop Systems (USA)	3437 RF Ideas, Inc. (USA)	3175 Taiwan BOE Vision-electronic Technology Co., Ltd. (CHINESE TAIPEI)	[X]
1724 HON HAI PRECISION IND. CO., LTD. (CHINESE TAIPEI)	1133 Magic Control Technology Corporation (CHINESE TAIPEI)	3550 Opendgear Inc. (USA)	2715 RF Window Co., Ltd. (KOREA)	1078 Tandberg Data GmbH (GERMANY)	3359 XAC Automation Corporation (CHINESE TAIPEI)
3235 Honeywell Scanning & Mobility (USA)	2105 Malvern Instruments Limited (U.K.)	2559 Optica Technologies Inc. (USA)	2377 Rimage Corporation (USA)	3408 TECO Image Systems Co., Ltd. (CHINESE TAIPEI)	2827 Xerox Corporation (USA)
3837 Hong Kong Colorful Yugong Technology Limited (CHINA)	3850 Manufacturing Resources International (USA)	241 Oracle America, Inc. (USA)	2529 Riverbed Technology (USA)	3758 Tembo Systems, Inc. (USA)	3538 XYZprinting, Inc. (CHINESE TAIPEI)
3385 Hon-Kwang Electric Co., Ltd. (CHINESE TAIPEI)	359 Matrox Electronic Systems (CANADA)	3062 Orion Technology Co., Ltd. (KOREA)	3421 ROAM Data Inc. (USA)	3867 Tempered Networks, Inc. (USA)	[Y]
1968 Huawei Technologies CO., LTD. (CHINA)	3639 Matterport, Inc. (USA)	3500 Ortronics, Inc. (USA)	3076 Robert Bosch Taiwan Co., Ltd.(CHINESE TAIPEI)	2943 Teradata Corporation (USA)	3229 YOUNG Lighting Technology Inc. (CHINESE TAIPEI)
3625 HUMAX Co., Ltd. (KOREA)	3278 MBX Systems (USA)	577 Overland Storage Inc. (USA)	3761 ROCCAT Asia Pacific Co., Ltd. (CHINESE TAIPEI)	3782 Thales e-Security, Inc. (USA)	[Z]
3595 Hyve Solutions Corporation (USA)	1090 McAfee, LLC. (USA)	3657 OXTI CORPORATION (CHINESE TAIPEI)	3389 RSUPPORT CO., LTD. (KOREA)	3120 Thecus Technology Corp. (CHINESE TAIPEI)	1143 Zebra Technologies Corporation (USA)
[I]	2863 Mellanox Technologies, Ltd. (ISRAEL)	[P]	3716 Rubrik International Inc. (USA)	3719 THINKWARE CORPORATION (KOREA)	1229 ZEBRA TECHNOLOGIES CORPORAION (USA)
3031 I/O INTERCONNECT INC. (CHINA)	3442 Meraki, Inc. (USA)	3441 Palo Alto Networks Inc. (USA)	2480 Ruckus Wireless, Inc. (USA)	3005 TIBCO Software Inc. (USA)	3499 ZIN CORPORATION Co., Ltd. (KOREA)
560 Identive (USA)	3841 Meta Company (USA)	3434 Panasas, Inc. (USA)	[S]	3466 Tigo Energy, Inc. (USA)	3729 ZPE Systems (USA)
1737 IEI Integration Corp. (CHINESE TAIPEI)	2694 Micron Consumer Products Group, Inc.(USA)	2372 Panduit Corp. (USA)	927 Samji Electronics Co., Ltd. (KOREA)	3713 Tintri, Inc. (USA)	3665 zSpace, Inc. (USA)
3670 IGEL Technology GmbH (GERMANY)	3102 Micron Technology, Inc. (USA)	3395 ParTech Inc. (USA)	2750 SAMPO Corporation Ltd (CHINESE TAIPEI)	3838 T.I.T. ENG Co., Ltd. (KOREA)	3354 ZTE Corporation (CHINA)
1272 IYAMA CORPORTION (THE NETHERLANDS)	1639 Microsemi (ISRAEL)	1808 PARTNER TECH CORP. (CHINESE TAIPEI)	271 SAMSUNG ELECTRONICS Co.,Ltd.(KOREA)	3806 Tiun Yuan Technology Co., Ltd. (CHINESE TAIPEI)	2596 Zylux Acoustic Corporation (CHINESE TAIPEI)
2368 Imaging Business Machines, LLC (USA)	3786 Microsemi Frequency & Time Corporation (USA)	3360 PC WORTH INT'L CO., LTD. (CHINESE TAIPEI)	2168 SanDisk IL (ISRAEL)	3626 Tobii Technology AB (SWEDEN)	
3591 Imperva, Inc. (ISRAEL)	748 Microsemi Storage Solutions Inc. (USA)	2869 PEGATRON CORPORATION (CHINESE TAIPEI)	3627 Sanmina Corp (USA)	1601 Top Victory Electronics Co., Ltd. (CHINESE TAIPEI)	
2664 Infinera Corporation (USA)	768 MICROSOFT CORPORATION (USA)	3851 PERVASIVE DISPLAYS INC. (CHINESE TAIPEI)	1416 Seagate Cloud Systems, Inc. (USA)	3652 TP-LINK Technologies Co., Ltd. (CHINA)	
2472 INFOBLOX (USA)	1573 Micro-Star International Co., Ltd. (CHINESE TAIPEI)	2614 Philips & Lite-On Digital Solutions Corp. (CHINESE TAIPEI)	3046 Seagate Technology (USA)	3542 TransAct Technologies Incorporated (USA)	
3831 Ingrasys Technology Inc. (CHINESE TAIPEI)	3632 Milestone Systems A/S (DENMARK)	2181 PIOLINK, Inc. (KOREA)	2552 SEH Computertechnik GmbH (GERMANY)	3695 Trenton Systems (USA)	
3745 Innwireless Co., Ltd. (KOREA)	3830 Mionix AB (SWEDEN)	3492 piQx Imaging Pte. Ltd. (SINGAPORE)	3239 SendTek Corporation (CHINESE TAIPEI)	3781 Trustwave Holdings, Inc. (USA)	
3794 Inspur Electronic Information Industry Co., Ltd. (CHINA)	1433 MITAC COMPUTING TECHNOLOGY CORPORATION (CHINESE TAIPEI)	2524 Plantronics Inc. (USA)	481 SerComm Corporation (CHINESE TAIPEI)	3565 Twinhead International Corp. (CHINESE TAIPEI)	
3460 Interconnect System Inc. (USA)	1896 MitraStar Technology Corporation (CHINESE TAIPEI)	3635 Plexxi, Inc. (USA)	3760 Shenzhen 3NOD Information Technology Co., Ltd. (CHINA)	[U]	
3519 Interface Masters Technologies, Inc. (USA)	3036 Moda Inc. (KOREA)	3642 PNY TECHNOLOGIES Asia Pacific Limited (CHINESE TAIPEI)	3219 Shenzhen Bitland Information Technology Co., Ltd. (CHINA)	3609 UGREAT ELECTRONIC CO., LTD. (CHINESE TAIPEI)	
378 Inventec Corporation (CHINESE TAIPEI)	754 MONTEREY INTERNATIONAL CORP. (CHINESE TAIPEI)	578 Polycom, Inc. (U.K.)	3618 Shuttle Inc. (CHINESE TAIPEI)	886 Universal Global Scientific Industrial Co., Ltd. (CHINESE TAIPEI)	
2947 IPEVO Corp (CHINESE TAIPEI)	3529 MOXA INC. (CHINESE TAIPEI)	3857 Ponte Technologies Co., Ltd. (CHINA)	1591 SIIG, Inc. (USA)	[V]	
[J]	[N]	3559 Portwell, Inc. (CHINESE TAIPEI)	2306 Silicom Ltd. (ISRAEL)	3730 Velocloud Networks, Inc. (USA)	
3779 JiranSecurity Co., Ltd. (KOREA)	3002 NDS Surgical Imaging (USA)	3146 Power Quotient International Co., Ltd. (CHINESE TAIPEI)	286 Hewlett Packard Enterprise Company (USA)	3668 Veritas Technologies Corp. (USA)	
3737 Jogtek Corp. (CHINESE TAIPEI)	3855 Nebbiolo Technologies Inc. (USA)	2062 POWERCOM CO., LTD. (CHINESE TAIPEI)	2535 Silver Peak Systems, Inc. (USA)	3003 ViaSat, Inc. (USA)	
1164 Juniper Networks, Inc. (USA)	3828 NEOFECT Co., Ltd. (KOREA)	3374 Pride Tech Corporation (CHINESE TAIPEI)	3131 SK hynix Inc. (KOREA)	2595 ViaScope Inc. (KOREA)	
[K]	1687 NetApp, Inc. (USA)	851 Primax Electronics Ltd. (CHINESE TAIPEI)	1960 SMART Modular Technologies, Inc. (USA)	3613 ViewSonic International Corporation (CHINESE TAIPEI)	
3754 Kaga(H.K.) Electronics Limited (HONG KONG)	1418 NETGEAR, Inc. (USA)	3766 Primera Technology, Inc. (USA)	2501 SMART Technologies ULC (CANADA)	3194 Vigilant Corporation (USA)	
3683 Kaonmedia Co., LTD. (KOREA)	1533 Netronix Inc. (CHINESE TAIPEI)	1910 PROMISE TECHNOLOGY, INC. (CHINESE TAIPEI)	3805 SMC Networks, Inc. (USA)	3698 Virtium LLC (USA)	
3339 Katron Technologies Inc. (CHINESE TAIPEI)	3712 Netronome Systems, Inc. (USA)	3726 PSi Laser GmbH (GERMANY)	3384 SMEC CO., LTD. (KOREA)	3439 Virtual Instruments Corporation (USA)	
3325 Kent Displays, Inc. (USA)	667 NetScout Systems, Inc. (USA)	3658 Pulse Secure, LLC (USA)	3631 SoftBank Robotics Europe (FRANCE)	2443 VIVOTEK INC. (CHINESE TAIPEI)	
2845 Kingston Digital, Inc. (USA)	3023 NetScout Systems Texas, LLC (USA)	3818 Pure Storage Inc. (USA)	2597 Solace Corporation (CANADA)	3291 Voyetra Turtle Beach, Inc. (USA)	
3788 KISAN TELECOM Co., LTD. (KOREA)	1316 Network Engines Inc, DBA "NEI", & DBA "Unicom Engineering Inc." (USA)	[Q]	3279 Solarflare Communicaitons Inc. (U.K.)	3752 VT iDirect, Inc. (USA)	
3574 Konftel AB (SWEDEN)	3865 NETWORK INTEGRITY SYSTEMS (USA)	2841 Qisda Corporation (CHINESE TAIPEI)	794 SOLID YEAR CO.,LTD. (CHINESE TAIPEI)	3125 Vuzix Corporation (USA)	
3041 Kontron America (USA)	2608 New H3C Technologies Co., Ltd. (CHINA)	1182 Qlogic a Cavium company (USA)	3158 SOLiD, Inc. (KOREA)	[W]	
3317 KOSTEC Co., Ltd. (KOREA)	3362 Newline Interactive Inc. (CHINESE TAIPEI)	3162 QNAP Systems, Inc. (CHINESE TAIPEI)	3773 SonicWall Inc. (USA)	3699 Waterfall Security Solutions LTD. (ISRAEL)	
[L]	1961 NEXCOM International Co., LTD. (CHINESE TAIPEI)	2261 Qualys, Inc. (USA)	3829 Sonoma Acoustics Ltd. (USA)	3852 WAWGD, Inc. d.b.a. Foresight Sports (USA)	
2152 Lantronix Inc. (USA)	3798 NextDrive Co., LTD. (CHINESE TAIPEI)	3623 Quanta Cloud Technology Inc. (CHINESE TAIPEI)	3808 Sonos, Inc. (USA)	3666 Weifang GoerTek Electronics Co., Ltd. (CHINA)	
3454 LC Future Center Limited Taiwan Branch (CHINESE TAIPEI)	3845 NOASystems Co., Ltd. (KOREA)	726 QUANTA COMPUTER INC. (CHINESE TAIPEI)	1558 Sonus Networks, Inc. (USA)	3763 Weihai Daewoo Electronics Co., Ltd.(CHINA)	
740 LEADTEK RESEARCH INC. (CHINESE TAIPEI)	3640 Nokia of America Corporation (USA)	2039 Quanta Storage Inc. (CHINESE TAIPEI)	3249 Sophos Ltd. (U.K.)	2432 Western Digital Technologies, Inc. (USA)	
1342 LEICA CAMERA AG (GERMANY)	308 Nokia-Global Product Compliance Laboratory (USA)	1012 Quantum Corporation (USA)	3650 Spectra Logic Corporation (USA)	1718 WIBU-SYSTEMS Aktiengesellschaft (GERMANY)	
674 Lexmark International, Inc. (USA)	3139 NT-ware Systemprogrammierung GmbH (GERMANY)	3842 Qucell Networks Co., Ltd. (KOREA)	3860 SPOTLIGHT CARRY CORP. LIMITED. (HONG KONG)	2418 WIDE CORPORATION (KOREA)	
256 LG Electronics Inc. (KOREA)	1904 NueTeq Technology, Inc. (CHINESE TAIPEI)	[R]	3447 SteelSeries ApS (CHINESE TAIPEI)	3847 WILK ELEKTRONIK S.A. (POLAND)	
495 Lite On Technology Corp. (CHINESE TAIPEI)	3336 Nutanix, Inc. (USA)	3430 RAD Data Communications Ltd. (ISRAEL)	3631 SoftBank Robotics Europe (FRANCE)	3846 Winner Wave Limited (CHINESE TAIPEI)	
3214 Lite-On Technology Corporation (CHINESE TAIPEI)	1423 NVIDIA CORPORATION (USA)	2956 RadiSys Corporation (USA)	2597 Solace Corporation (CANADA)	2912 Wins Co., Ltd. (KOREA)	
3813 Logic Supply, Inc. (USA)		2407 Radware Ltd. (ISRAEL)	3279 Solarflare Communicaitons Inc. (U.K.)	1767 Wistron Corporation (CHINESE TAIPEI)	
532 Logitech Inc. (USA)		3371 Rakuten Kobo Inc. (CANADA)	794 SOLID YEAR CO.,LTD. (CHINESE TAIPEI)	3145 Withings (FRANCE)	
3398 Lookingglass Cyber Solutions (USA)			3158 SOLiD, Inc. (KOREA)	3423 Wiwynn Corporation (CHINESE TAIPEI)	

Supporting Members

<Japanese>

No. Company Name

[A]	3740 AKITA Industrial Technology Center
	3196 ANRITSU CUSTOMER SUPPORT CO., LTD.
[C]	884 Canon Imaging Systems Inc.
	1192 Chiba Industry Advancement Center Tokatsu Techno Plaza
	1846 Chokuan Information and Industry Development Association
	755 COSMOS CORPORATION
[D]	3807 DENSO EMC ENGINEERING SERVICE CORPORATION
[E]	997 E & C Engineering K.K.
	1263 Ehime Institute of Industrial Technology
	259 EMC Japan Corporation
	300 e-OHTAMA, LTD.
	1906 ETS-Lindgren Japan, Inc.
[F]	2865 FUJIFILM Techno Products Co., Ltd.
	1115 FUJITSU GENERAL EMC LABORATORY LIMITED
	575 Fukushima Technology Centre
[G]	1007 GE Healthcare Japan Corporation
	2586 GIKENKOGYO CO., LTD. TECHNOSHIELD BUSINESS DIVISION

[H]
 423 HIROSHIMA-TECHNOPLAZA CORPORATION
 1823 Hitachi High-Technologies Corporation
 2207 Hitachi Information & Telecommunication Engineering, Ltd. EMC Center

[I]
 3234 Industrial Research Institute of Niigata Prefecture
 397 Industrial Research Institute of Shizuoka Prefecture Hamamatsu Technical Support Center
 742 Industrial Technology Center of OKAYAMA Pref.
 2264 Industrial Technology Center of Tochigi Prefecture
 1213 Industrial Technology Institute, Miyagi Prefectural Government

999 Intertek Japan K.K.
 579 IPS Corporation
 2227 ISHIKAWA Co., Ltd.
 3649 Iwate Industrial Research Institute

[J]
 3619 Japan Automobile Research Institute
 792 JAPAN ELECTRICAL SAFETY & ENVIRONMENT TECHNOLOGY LABORATORIES
 140 JEL Limited

[K]
 1251 Kagawa Industry Support Foundation (NEXT KAGAWA)
 689 Kanagawa Institute of Industrial Science and Technology
 187 KITAGAWA INDUSTRIES CO., LTD.
 3569 KYB Corporation
 3304 Kyoritsu Electric Corporation

[L]
 1370 Labotech International Co., Ltd.

[M]
 1301 Minami-Shinsyu Iida Industry Center
 1438 Miyazaki Prefecture Industrial Technology Center
 2973 M-System Co., Ltd.

[N]
 352 Nagano Prefectural General Industrial Technology Center Precision and Electronics Technology Department
 3592 NIPPON SEIKI CO., LTD.
 3562 NISSEI ELECTRIC CO., LTD.
 684 NOISE LABORATORY CO., LTD.
 2689 Noritz Corporation

[O]
 3568 OHTAMA CALIBRATION SERVICE Co., Ltd.
 3862 Oita Industrial Research Institute
 898 OKI ENGINEERING CO., LTD.

[P]
 2024 Panasonic Smart Factory Solutions Co., Ltd.
 608 Panasonic System Networks Evaluation Technology Co., Ltd.
 2923 PFU TECHNOCONSUL Limited

[R]
 2285 Radio Engineering & Electronics Association
 1398 RAKURYOU TECHNICA CO., LTD.
 485 RIKEN ENVIRONMENTAL SYSTEM Co., Ltd
 2759 Rohde & Schwarz Japan K.K.
 1337 Roland Corporation

[S]
 3446 Samoto & Associates, Ltd.
 2906 SELA Corporation
 2563 SGS Japan Inc.
 3274 Shimane Insutitute Industrial Technology
 1849 Sony Global Manufacturing & Operations Corporation

[T]
 346 TDK-Lambda Corporation
 996 Tokin EMC Engineering Co., Ltd.
 1098 TOKYO METROPOLITAN INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE
 943 Toshiba Carrier Engineering & Life Support Corp.
 3283 Toyama Industrial Technology Center
 995 TOYO Corporation
 3396 Toyota Industries Corporation
 811 TUV Rheinland Japan Ltd.
 240 TUV SUD Zacta Ltd.

[U]
 474 UL Japan, Inc

[W]
 260 WAVE CORPORATION

[Y]
 3318 YAMAHA MOTOR CO., LTD.
 911 Yashima Denki Co., LTD.
 92 YOKOGAWA ELECTRIC CORPORATION

<Overseas>
No. Company Name

[A]
 3034 A Test Lab Techno Corp. (CHINESE TAIPEI)
 2186 APPLUS+ LGAI (SPAIN)
 966 Atlas Compliance & Engineering, Inc. (USA)
 1257 AUDIX Technology (Shanghai) Co., Ltd. (CHINA)
 638 Audix Technology (Shenzhen) Co., Ltd. (CHINA)
 2653 Audix Technology (Wujiang) Co., Ltd. (CHINA)
 237 Audix Technology Corporation (CHINESE TAIPEI)

[B]
 981 Bay Area Compliance Laboratories Corp. (USA)
 3776 Bay Area Compliance Laboratories Corp. (Taiwan) (CHINESE TAIPEI)
 3387 Bay Area Compliance Labs Corp.,(ShenZhen) (CHINA)
 3329 BEC Incorporated (USA)
 672 BTL Inc. (CHINESE TAIPEI)
 2709 BTL Inc. (CHINA)
 3859 BTL Inc. (CHINA)

818 Bureau Veritas Consumer Products Services (USA)
 2213 Bureau Veritas Consumer Products Services (GERMANY)

395 Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch (CHINESE TAIPEI)
 2115 Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch (CHINA)
 3772 BV 7Layers Communications Technology (Shenzhen) Co., Ltd. (CHINA)
 1818 BWS TECH, INC. (KOREA)

[C]
 1847 Central Research Technology Co. (CHINESE TAIPEI)
 3517 Centre of Testing Service Co., Ltd.(CHINA)
 3177 Centre Testing International Group Co., Ltd. (CHINA)

2216 Cerpas Technology Corporation (CHINESE TAIPEI)
 2783 CETECOM GmbH (GERMANY)
 3812 China Academy of Information and Communications Technology (CHINA)
 555 Chomerics Test Services (USA)
 2765 CHUNGBUK TECHNOPARK (KOREA)
 213 CKC Laboratories, Inc. (USA)
 530 Compatible Electronics, Inc. (USA)
 1938 Compliance Certification Services (KunShan) Inc. (CHINA)

3647 Compliance Certification Services (Shenzhen) Inc. (CHINA)
 710 Compliance Certification Services Inc. (CHINESE TAIPEI)
 3168 Compliance Worldwide, Inc. (USA)
 3330 Core Compliance Testing Services, LLC (USA)
 332 CSA Group bayern GmbH (CHINESE TAIPEI)
 2981 CSA Group Testing & Certification Inc. (CANADA)
 1208 CTK Co., Ltd. (KOREA)

[D]
 270 D.L.S. Electronic Systems, Inc. (USA)
 1153 DEKRA Testing and Certification Co., Ltd. (CHINESE TAIPEI)

910 DELTA a part of FORCE Technology (DENMARK)
 715 DNB Engineering, Inc. (USA)
 3207 DSTech Co. (KOREA)
 1722 DT&C Co., Ltd. (KOREA)

[E]
 3756 East China Institute of Telecommunications (CHINA)
 3561 EKTOS Testing & Reliability Services A/S (DENMARK)

1607 Electrical and Electronics Institute (EEI), Thailand (THAILAND)
 922 ELECTRO MAGNETIC TEST, INC. (USA)
 2870 ElectroMagnetic Investigations, LLC (USA)
 277 Electronics Testing Center, Taiwan (CHINESE TAIPEI)
 657 Element Materials Technology Warwick Ltd. (U.K.)
 785 EMC Technologies Pty Ltd. (AUSTRALIA)
 1409 EMCCons DR. RASEK GmbH & Co. KG (GERMANY)
 2210 EMITECH Angers (FRANCE)
 2893 EMTEK (shenzhen) Co., Ltd. (CHINA)
 719 EMV TESTHAUS GMBH (GERMANY)

3270 EST Technology Co., Ltd. (CHINA)
 3470 ESTECH Co., Ltd. (KOREA)
 1474 ETL Inc. (KOREA)

[F]
 3636 F Squared Engineering Corp dba F2 Labs (USA)
 2003 Flextronics Canada Design Services Inc. (CANADA)

[G]
 2778 Global Certification Corp. (CHINESE TAIPEI)
 708 Global EMC Standard Tech. Corp. (CHINESE TAIPEI)
 2752 Global Testing Laboratories (USA)
 3498 Guangdong Keyway Testing Technology Co., Ltd. (CHINA)
 3677 Guangzhou Quality Supervision And Testing Institute(GQT) (CHINA)
 2092 Gumi University EMC Center (KOREA)

[H]
 3606 Hangzhou TDT Technologies Co., Ltd. (CHINA)
 264 HCT Co., Ltd. (KOREA)
 592 Hermon Laboratories Ltd. (ISRAEL)
 1814 Hong An Technology CO., LTD. (CHINESE TAIPEI)
 3070 Hong Fu Jin Precision Electrons (Yantai) Co., Ltd. (CHINA)
 1145 HURSLEY EMC SERVICES LTD. (U.K.)

[I]
 821 I.T.L. (PRODUCT TESTING) LTD (ISRAEL)
 3452 International Certification Corp.(CHINESE TAIPEI)
 243 International Standards Laboratory Corp. (CHINESE TAIPEI)

1349 Interocean EMC Technology Corp. (CHINESE TAIPEI)
 960 Intertek Testing Services Hong Kong Ltd. (HONG KONG)
 3598 Intertek Testing Services Ltd., Shanghai (CHINA)
 334 Intertek Testing Services NA Inc. (USA)
 1253 Intertek Testing Services Taiwan Ltd. (CHINESE TAIPEI)

3685 ITC Engineering Services, Inc. (USA)

[J]
 2746 Jiangsu Electronic Information Product Quality Supervision & Inspection Institute (CHINA)
 3462 JNDL Laboratory CO., LTD. (KOREA)

[K]
 1980 KCTL Inc. (KOREA)
 3669 KES Co., Ltd. (KOREA)
 3465 Keystone Compliance, LLC (USA)
 2005 KOSTEC Co., Ltd. (KOREA)

[L]
 3376 Laboratoria De Nayer VZW (BERGIUM)
 3656 Lab-T, Inc. (KOREA)
 3533 LCIE Bureau Veritas (FRANCE)
 2411 LTA Co., Ltd. (KOREA)

[M]
 757 MET Laboratories, Inc. (USA)

2959 MiCOM Labs (USA)
 3575 MRT Technology (Suzhou) Co., Ltd. (CHINA)

[N]
 1211 National Technical Systems (USA)
 3220 Nemko AS (NORWAY)
 642 Nemko Canada Inc. (CANADA)
 2118 Nemko Korea Co., Ltd. (KOREA)

720 Nemko USA, Inc. - San Diego EMC Division (USA)

[O]
 782 ONETECH Corp. (KOREA)

[P]
 656 PCTEST Engineering Laboratory, Inc. (USA)
 2670 Precision Machinery Research & Development Center (CHINESE TAIPEI)
 409 Professional Testing (EMI), Inc. (USA)

[Q]
 3718 QAI Laboratories, Ltd. (CANADA)
 1798 QualiTech, EMC Lab. (ISRAEL)

[R]
 1908 RETLIF Testing Laboratories (USA)

[S]
 2793 SGS Germany GmbH (GERMANY)
 2934 SGS Korea Co., Ltd. (KOREA)
 3300 SGS North America (USA)
 1600 SGS Taiwan Ltd. (CHINESE TAIPEI)
 3061 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. (CHINA)
 1937 SGS-CSTC Standards Technical Services Co., Ltd. (CHINA)

3738 Shanghai Inspection and Testing Institute of Instruments and Automatic Systems (CHINA)
 2621 Shanghai Institute of Measurement and Testing Technology EMC Lab. (CHINA)

3525 Shenzhen Academy of Metrology and Quality Inspection (CHINA)
 2257 Shenzhen FuGui Precision Industry Co., Ltd. (CHINA)
 3826 Shenzhen BALUN Technology Co., Ltd. (CHINA)
 2218 Shenzhen Huatongwei International Inspection Co., Ltd. (CHINA)
 3863 Shenzhen Huaxia Testing Technology Co., Ltd. (CHINA)
 3641 Shenzhen TCT Testing Technology Co., Ltd. (CHINA)
 3081 SIEMIC INC. (USA)
 3071 SINGAPORE EPSON INDUSTRIAL PTE LTD (SINGAPORE)
 1411 SK Tech Co., Ltd. (KOREA)
 466 Sporton International Inc. (CHINESE TAIPEI)
 3096 Standard Bank Co., Ltd. (KOREA)
 3811 Suzhou Science Standard Testing Co., LTD. (CHINA)

[T]
 658 Test Site Services (USA)
 3379 The Compliance Management Group (CMG)(USA)

3587 The First Research Institute of Telecom. Tech. TFTX Laboratory (CHINA)
 1328 The Hong Kong Standards and Testing Centre Ltd. (HONG KONG)

831 The Standards Institution of Israel (SII) (ISRAEL)
 916 3C Test Ltd. (U.K.)
 3241 TPV Display Technology (Xiamen) Co., Ltd. (CHINA)
 2697 TUV Rheinland (Guangdong) Ltd. (CHINA)
 639 TUV Rheinland Nederland BV (THE NETHERLANDS)
 1097 TUV Rheinland of North America (USA)
 3252 TUV Rheinland Taiwan Ltd. (CHINESE TAIPEI)
 129 TUV SUD America Inc. (USA)
 2718 TUV SUD Canada Inc. (CANADA)
 433 TUV SUD Product Service Ltd. (U.K.)
 542 TUV SUD PSB Pte Ltd (SINGAPORE)

[U]
 3148 UL International Singapore Pte Ltd (SINGAPORE)
 596 UL LLC (USA)
 376 UL Verification Services Inc. (USA)
 3793 UL Verification Services (Guangzhou) Co., Ltd., Song Shan Lake Branch (CHINA)
 1309 Ultratech Engineering Labs Inc. (CANADA)
 3834 Underwriters Laboratories Taiwan Co., Ltd. (CHINESE TAIPEI)

892 Universal Compliance. Labs dba EMCE Engineering (USA)

[V]
 935 VDE Testing and Certification Institute (GERMANY)

[W]
 3581 Wendell Industrial Co., Ltd. (CHINESE TAIPEI)
 3750 WH Technology Corp. (CHINESE TAIPEI)
 2450 Worldwide Testing Services (Taiwan) Co., Ltd. (CHINESE TAIPEI)

[Y]
 1006 YORK EMC SERVICES LTD. (U.K.)
 1062 York EMC Services, Grangemouth (U.K.)

Settlement of Accounts for FY 2017

(Statement of net assets)

From April 1, 2017 to March 31, 2018

(Unit: Japanese yen)

Item	Current Fiscal Year	Previous Fiscal Year	Increase or Decrease
I. Statement of general net assets			
1. Ordinary increase and decrease			
(1) Ordinary earnings			
① Admission fees received	(3,900,000)	(3,300,000)	(600,000)
Admission fees received	3,900,000	3,300,000	600,000
② Membership fees received	(237,150,000)	(235,100,000)	(2,050,000)
Membership fees received	237,150,000	235,100,000	2,050,000
③ Earning on enterprise fees	(16,255,000)	(14,935,000)	(1,320,000)
Site registration fees	14,325,000	11,520,000	2,805,000
Seminar enrollment fees	1,930,000	3,415,000	△ 1,485,000
④ Miscellaneous earnings	(2,634,555)	(2,556,312)	(78,243)
Miscellaneous earnings	2,634,555	2,556,312	78,243
Total ordinary earnings	259,939,555	255,891,312	4,048,243
(2) Ordinary expenditure			
① Enterprise expenditure	(213,099,520)	(212,239,775)	(859,745)
Labor	54,363,217	52,153,585	2,209,632
Enterprise overhead	46,349,536	44,803,262	1,546,274
Operating expenditure	5,775,272	3,604,872	2,170,400
Standards setting	14,686,215	14,343,379	342,836
Technical education and training	3,507,059	5,708,701	△ 2,201,642
Market surveillance	24,676,735	25,460,774	△ 784,039
International relations operation	5,303,420	5,073,051	230,369
Public relations	18,450,583	19,545,794	△ 1,095,211
Site registration expenditure	31,236,000	32,880,000	△ 1,644,000
Transfer to bonus reserve fund	6,043,003	5,590,437	452,566
Transfer to retirement allowance reserve fund	2,036,480	2,403,920	△ 367,440
Transfer to officers' retirement bonus reserve fund	672,000	672,000	0
② Administrative expenditure	(29,264,916)	(27,626,075)	(1,638,841)
Labor	13,590,785	13,038,377	552,408
Housekeeping	13,486,260	12,421,109	1,065,151
Transfer to bonus reserve fund	1,510,751	1,397,609	113,142
Transfer to retirement allowance reserve fund	509,120	600,980	△ 91,860
Transfer to officers' retirement bonus reserve fund	168,000	168,000	0
Total ordinary expenditure	242,364,436	239,865,850	2,498,586
Current fiscal year ordinary increase and decrease amount	17,575,119	16,025,462	1,549,657

Item	Current Fiscal Year	Previous Fiscal Year	Increase or Decrease
General net assets before tax	17,575,119	16,025,462	1,549,657
Corporation tax, residential tax, and enterprise tax	70,000	70,000	0
Current fiscal year general net assets	17,505,119	15,955,462	1,549,657
Balance of general net assets at the beginning of the term	343,785,632	327,830,170	15,955,462
Balance of general net assets at the end of the term	361,290,751	343,785,632	17,505,119
II. Balance of net assets at the end of the term	361,290,751	343,785,632	17,505,119

VLAC (Voluntary EMC Laboratory Accreditation Center)

VLAC was established in April 1999 by VCCI as an independent organization providing laboratory accreditation based on ISO/IEC17025:2005/2017. VLAC accredits laboratories by inspecting whether they conform to international standards. The scope of accreditation covers emissions from multimedia devices demanded by VCCI, as well as laboratories focusing on: EMC testing (electrical and electronic devices, electrical devices for medical use, on-board electrical equipment for cars, railways, ships, and elevators, etc.), performance testing of telecommunications terminal equipment, electromagnetic field exposure testing, performance testing of wired communication terminals, air-conducted noise testing, power consumption testing of home-use electronic equipment, and safety testing. Laboratories accredited by VLAC are recognized anywhere in the world because VLAC is a signatory organization of ILAC MRA. Such laboratories enjoy the privilege of fast registration with VCCI free of charge simply by sending their certificate to the VCCI website. As of the end of FY 2017, 47 testing sites of 37 laboratories have been certified by VLAC. For details, see the VLAC website: <http://www.vlac.co.jp/>.



ILAC Combined MRA Mark



Certificate of Accreditation



Scope of Accreditation (testing categories)



Scope of Accreditation (testing standards)

VCCI Commissioned Testing Laboratories



TELEC (Telecom Engineering Center) - EMC Laboratory

URL: <http://www.telec.or.jp/>

Street address: 5-7-2 Yashio, Shinagawa-ku, Tokyo, Japan 140-0003

TELEC is a testing and certification organization providing certification services for clearance of technical requirements specified by the Radio Act, notified body services accredited by MRA with the EU, specified calibration of measuring equipment and testing of radio and high-frequency equipment. TELEC is also capable of testing EMC, RF, SAR, and low-power radio equipment at laboratories accredited with VLAC's ISO/IEC17025. VLAC also tests radio power transmission facilities, various facilities using high-frequency radio, and antenna characteristics, and measures a variety of electromagnetic fields using open sites.



JQA (Japan Quality Assurance Organization) - Saito Electromagnetic Environment Testing Laboratory

URL: <http://www.jqa.jp/>

Street address: 7-3-10 Saito-Asagi, Ibaraki-shi, Osaka-fu, Japan 567-0085

JQA is a fair and neutral third-party organization providing services such as: inspection and registration of quality management systems such as ISO 9000 and environment management systems such as ISO 14001, electromagnetic environment testing, product safety certification, measurement device calibration, and certification of daily-life service robots. The Saito laboratory is the biggest of JQA's electromagnetic environment testing laboratories, and also deals with information, medical, and home appliances, and car- and ship-mounted equipment. JQA is also capable of testing radio equipment in Japan and overseas. JQA testing facilities are registered as qualified by VCCI and certified by VLAC under ISO/IEC17025.



KEC (Kansai Electronic Industry Development Center) - Testing Division

URL: <http://www.kec.jp/>

Street address: 3-2-2 Hikaridai, Seikacho, Sourakugun, Kyoto-fu, Japan 619-0237

KEC provides laboratory accreditation services in accordance with ISO/IEC 17025 (as certified by VLAC, JAB, JNLA, and A2LA). Services include EMC testing and radio equipment evaluation for home appliances, industry, medical, and railway equipment, power conditioners, automobiles, EV chargers, vehicle- and airplane mounted equipment, and defense-related equipment. Also offered is product safety testing for home appliances, and fast, high-quality EMC testing. KEC has various EMC testing facilities including a 10-meter radio anechoic chamber and a miniature chamber for vehicle- and airplane-mounted equipment and defense-related equipment, which are supported by the INARTE engineers.



Intertek Japan - Kashima Testing Laboratory

URL: <http://ew.intertek-jpn.com/>

Street address: 298-6 Sada, Kashima-shi, Ibaraki Prefecture, Japan 314-0027

Intertek Japan runs five testing sites in Japan, and is accredited by VLAC, NVLAP, and IECCE, among others. The laboratory provides EMC testing and accreditation for consumer, industry, medical, automobile, military, aviation, and telecommunications equipment, and specification and calibration services for various testing equipment. Intertek Japan also provides product safety testing, factory inspections, overseas safety certification, and various agent application and other services for telecommunications equipment. The Kashima laboratory, with its anechoic chamber and open site, has been engaged in EMC testing, mainly of consumer equipment, since 1984.

NOA Bldg.



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Participating organizations

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Japan Business Machine and Information
System Industries Association (JBMIA)
Communications and Information network
Association of Japan (CIAJ)

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