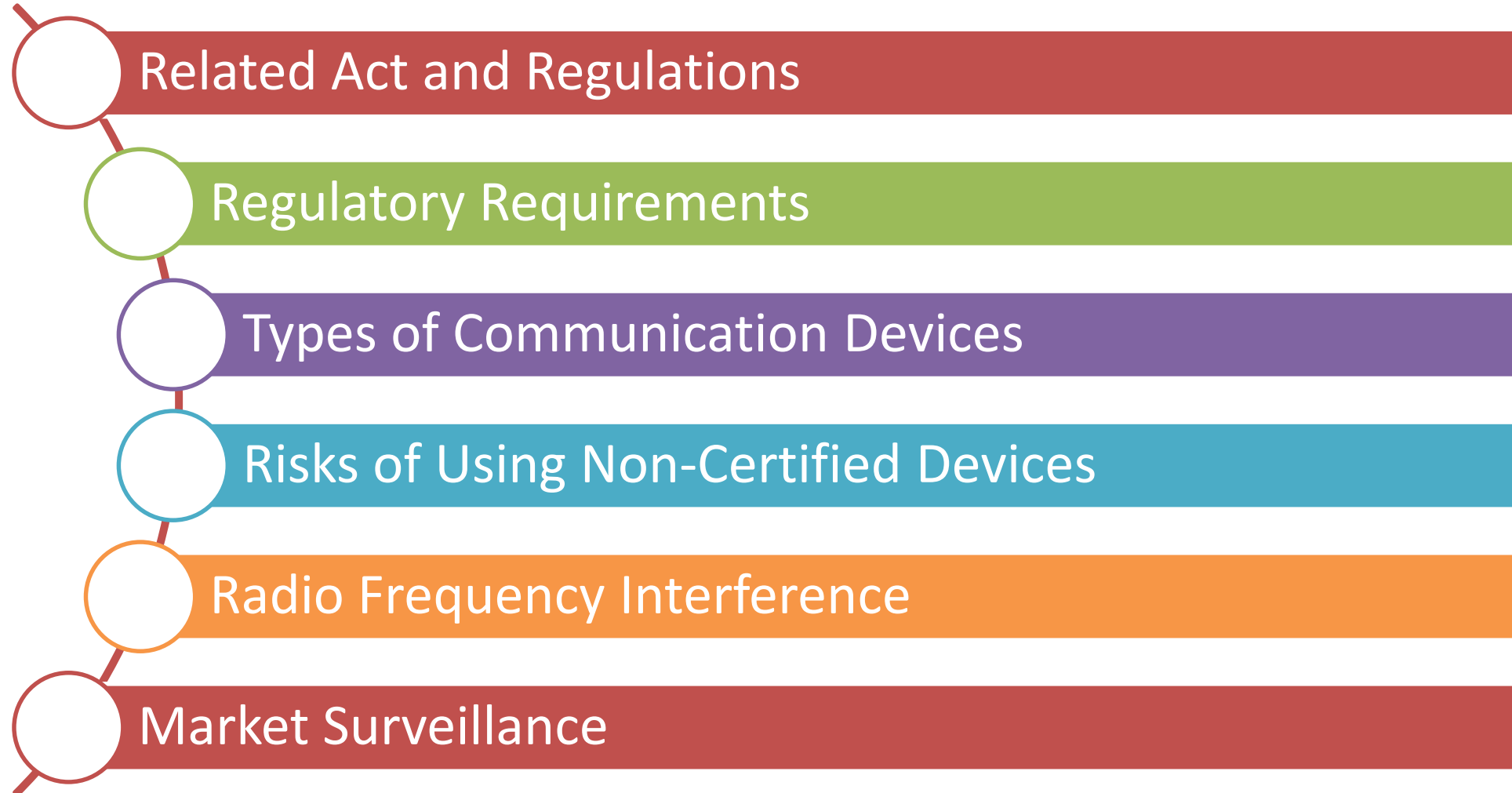# INDUSTRY ENGAGEMENT SESSION
COMPLIANCE REQUIREMENTS FOR COMMUNICATION DEVICES PLACED ON THE MALAYSIAN MARKET

CONTENT

Related Act and Regulations

Regulatory Requirements

Types of Communication Devices

Risks of Using Non-Certified Devices

Radio Frequency Interference

Market Surveillance

RELATED ACT AND REGULATIONS

COMMUNICATIONS AND MULTIMEDIA ACT 1998

01

02 COMMUNICATIONS AND MULTIMEDIA (TECHNICAL STANDARDS) REGULATIONS 2000

CUSTOMS (PROHIBITION OF IMPORT) ORDER 2017

03

REGULATORY REQUIREMENTS (1)

Certification

- **All communications equipment** which are required to be certified under these Regulations **shall be so certified** (reg. 14, TSR 2000)

- **The Commission or a registered certifying agency**, as the case may be, may certify communications equipment (reg. 19, TSR 2000)

Labeling

- All certified communications equipment **shall bear a certification mark or label** approved by the Commission or a registered certifying agency (reg. 22, TSR 2000)

These requirements also applies to **hybrid equipment** – equipment **integrated with communication modules (such as WiFi, Bluetooth, NFC, GSM, 3G, LTE or modem)**.

REGULATORY REQUIREMENTS (2)

REGISTERED CERTIFYING AGENCY

Section 186 of the CMA 98

(1) **The Commission may register certifying agencies** or classes of certifying agencies, including agencies outside Malaysia, for the purposes of **certifying compliance with codes or standards**

(2) An approval by a registered certifying agency **shall be deemed to be an approval** by the Commission
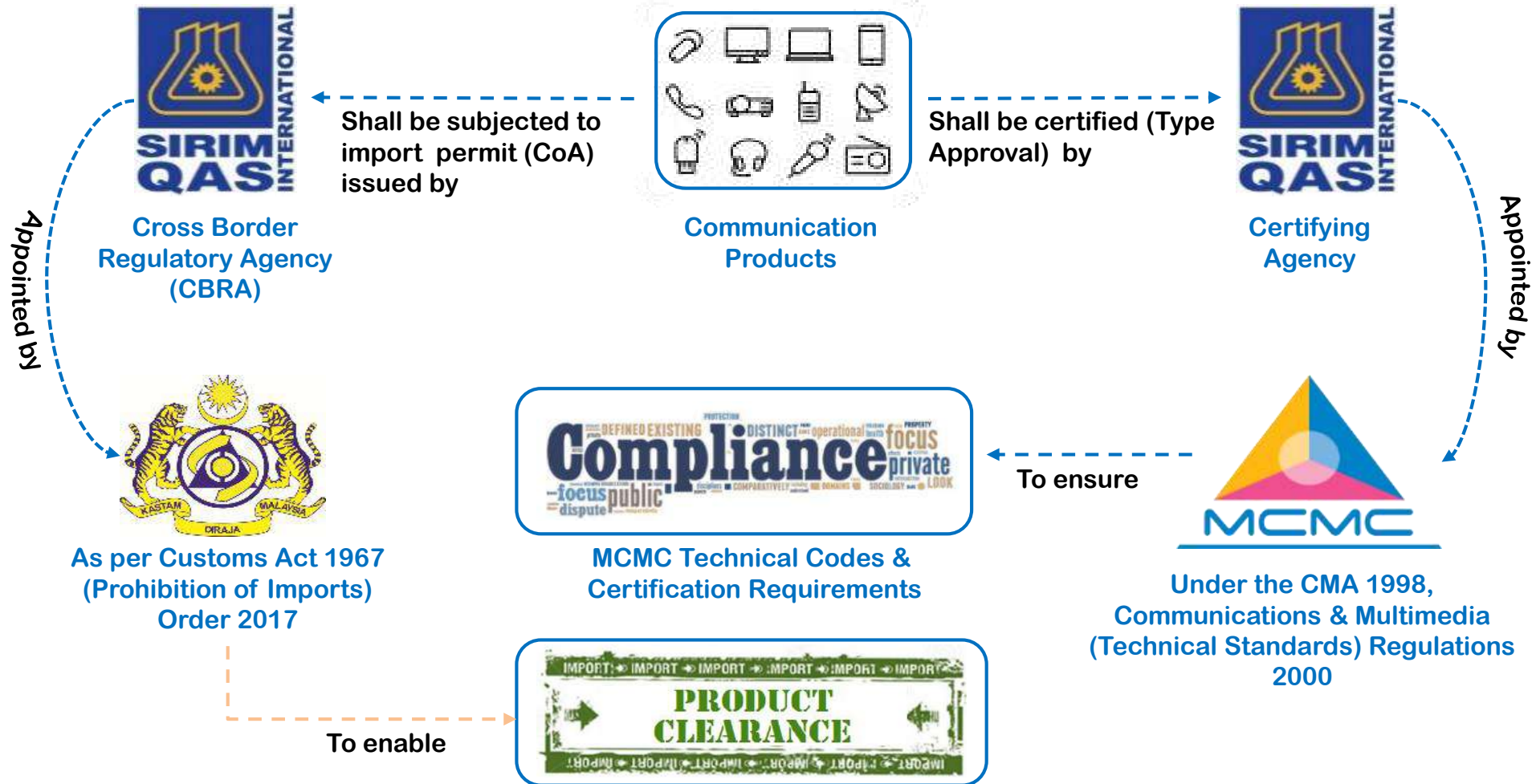

Certifying Agency for communications equipment
SIRIM QAS INTERNATIONAL

2 Certifying Agency

1 MCMC

Certification Program

Why certification?

Safety (Electrical & SAR)	Interoperability (Performance Characteristics)	Radio Frequency (Frequency, Power Limit & EMC)

REGULATORY REQUIREMENTS (3)

SIRIM's FUNCTIONS

Shall be subjected to import permit (CoA) issued by

Shall be certified (Type Approval) by

Communication Products

Cross Border Regulatory Agency (CBRA)

Certifying Agency

Appointed by

Appointed by

As per Customs Act 1967 (Prohibition of Imports) Order 2017

MCMC Technical Codes & Certification Requirements

To ensure

Under the CMA 1998, Communications & Multimedia (Technical Standards) Regulations 2000

To enable

PRODUCT CLEARANCE

REGULATORY REQUIREMENTS (4)

Certification Mark/Label

Minimum size: 8mm x 8mm

HID

MCMC
ABCD16345678

MCMC LOGO

SLP ID

For specific Type Approval owner

Example:

SLP ID: HIDF15000001

Certificate Holder/Importer:
SONY EMCS (MALAYSIA) SDN. BHD.

CID

For specific Principal/ Manufacturer, may be used by multiple Type Approval owners

Example:

SLP ID: CIDF15000007

Principal (Brand Owner):
APPLE INC.
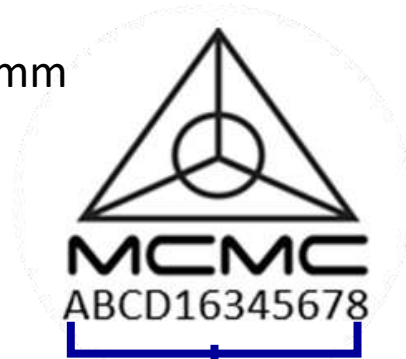
Certificate Holder/Importer:
APPLE MALAYSIA SDN. BHD.
ANSARCOMP (M) SDN. BHD.
UPS SCS (MALAYSIA) SDN. BHD.

ABC	CID-Common ID or HID-Certificate Holder ID
D	Manufacturer: F-Foreign, M-Local
16	Year SLP ID Issued
345678	Running Number

REGULATORY REQUIREMENTS (5)

01 e-Labeling
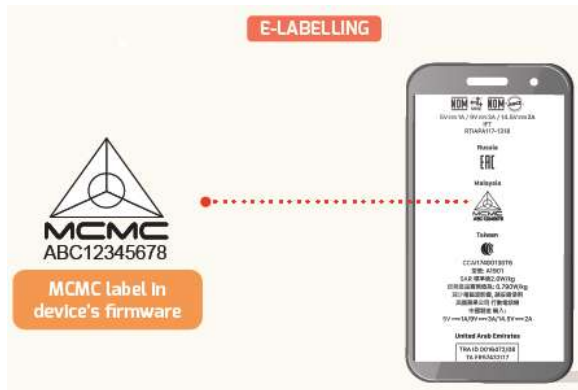
👉 Device with built-in electronic display

👉 Stored in device firmware or operating system and cannot be removed

👉 Retrievable for display with the method described in product documentation
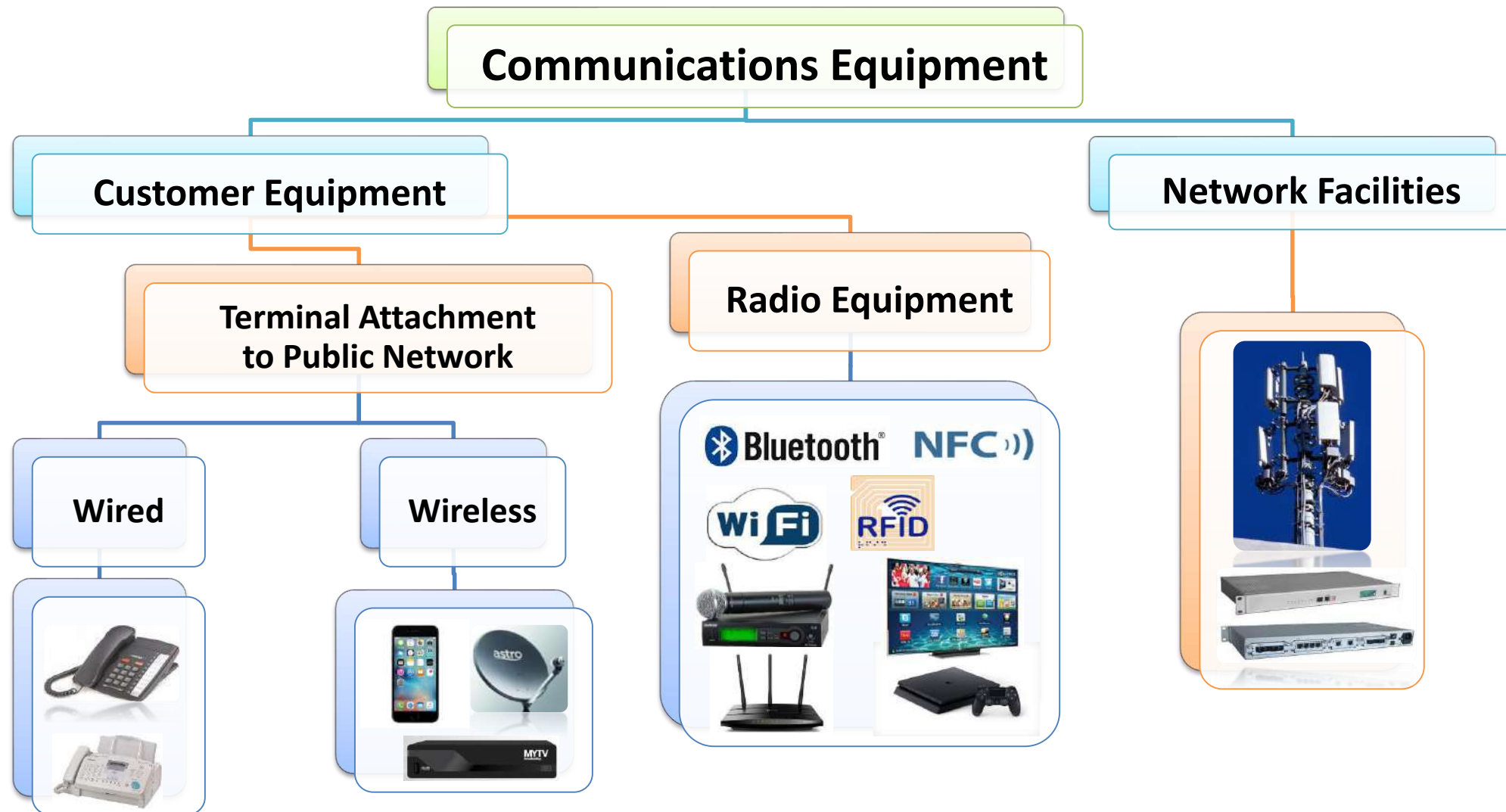
Labelling Methods

02 Surface Labeling

👉 Printed, painted, moulded, etched, engraved or embossed or any suitable means.

👉 Shall be legible, durable and readily visible.

* May be printed on warranty card, user manual or smallest packaging unit subject to prior permission

TYPES OF COMMUNICATION EQUIPMENT

Communications Equipment

- **Customer Equipment**
  - **Terminal Attachment to Public Network**
    - **Wired**
    - **Wireless**
  - **Radio Equipment**
- **Network Facilities**

RISKS OF USING NON-CERTIFIED DEVICES

1 Unsafe to consumers

2 Degrade the quality of service received from communications service providers

3 Frequency interference to communication services
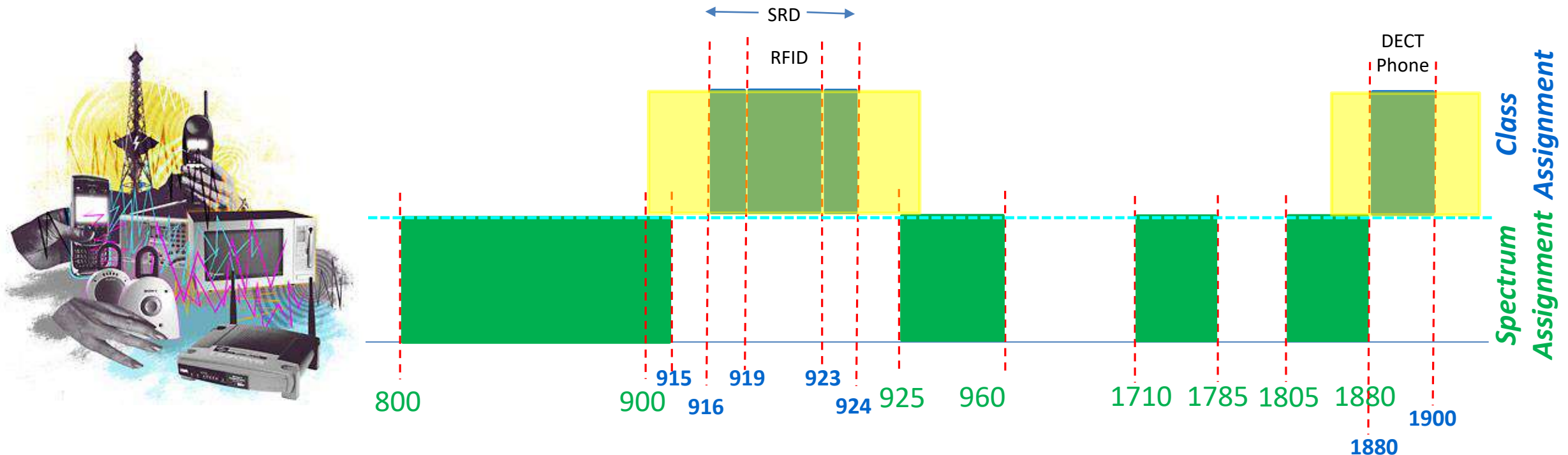
4 Purchased device may be counterfeit / cloned

RADIO FREQUENCY INTERFERENCE (RFI)

What is RFI?

It happen when an electric/electronic devices (e.g. Communications equipment) transmit frequency on the frequency band which is assigned to Network Service Provider (Telco) company.

What is the factors for RFI?

- Use of **non-standards communications equipment**
- Equipment which is purchased or imported **from oversea without certification from the registered Certifying Agency**
- The imported equipment has **different specifications than samples assessed by the registered Certifying Agency**

RADIO FREQUENCY INTERFERENCE (RFI)

Effect and Implications?

LOW QUALITY OF PHONE CALL

NOISE WHEN MAKING A PHONE CALL

01 **02** **03** **04** **05**

DROP CALL/ CROSSTALK

COVERAGE INTERUPTION

SLOW BROWSING OR DOWNLOADING
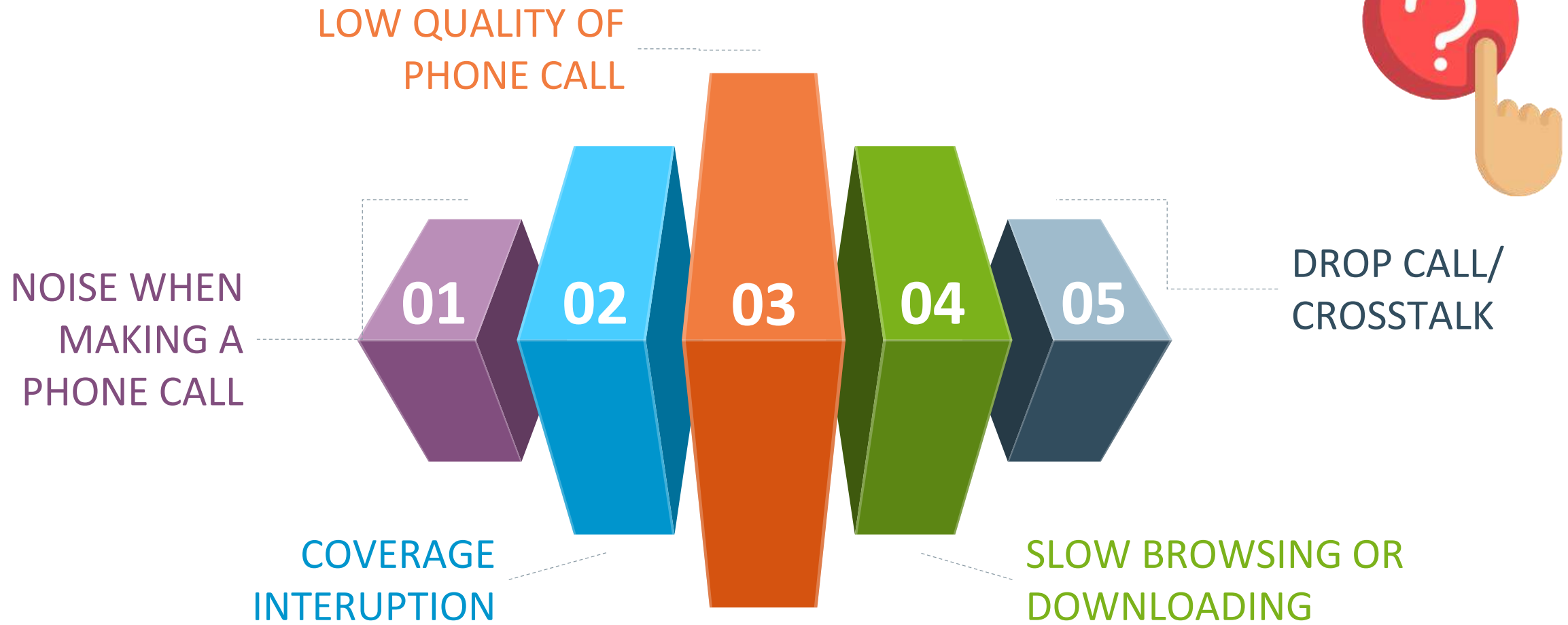
RADIO FREQUENCY INTERFERENCE (RFI)

RFI SOURCE FOR THE YEAR 2018

RFI sources	Q1 2018	Q2 2018	Q3 2018	Q4 2018	Total
Cellular booster	26	16	25	15	82
AV transmitter	7	3	3	2	15
DECT phone	5	2	5	9	21
RFID reader	5	27	15	20	67
Jammer	3	1	2	0	6
Motion sensor	1	0	0	0	1
900 MHz radio link	1	0	0	0	1
Car reverse sensor	1	1	1	0	3
TV Booster	0	1	0	1	2
Baby Monitor	0	0	2	0	2
Wireless CCTV	0	0	0	2	2
Wireless Headset	0	0	0	1	1

RFI Sources for the Year 2018
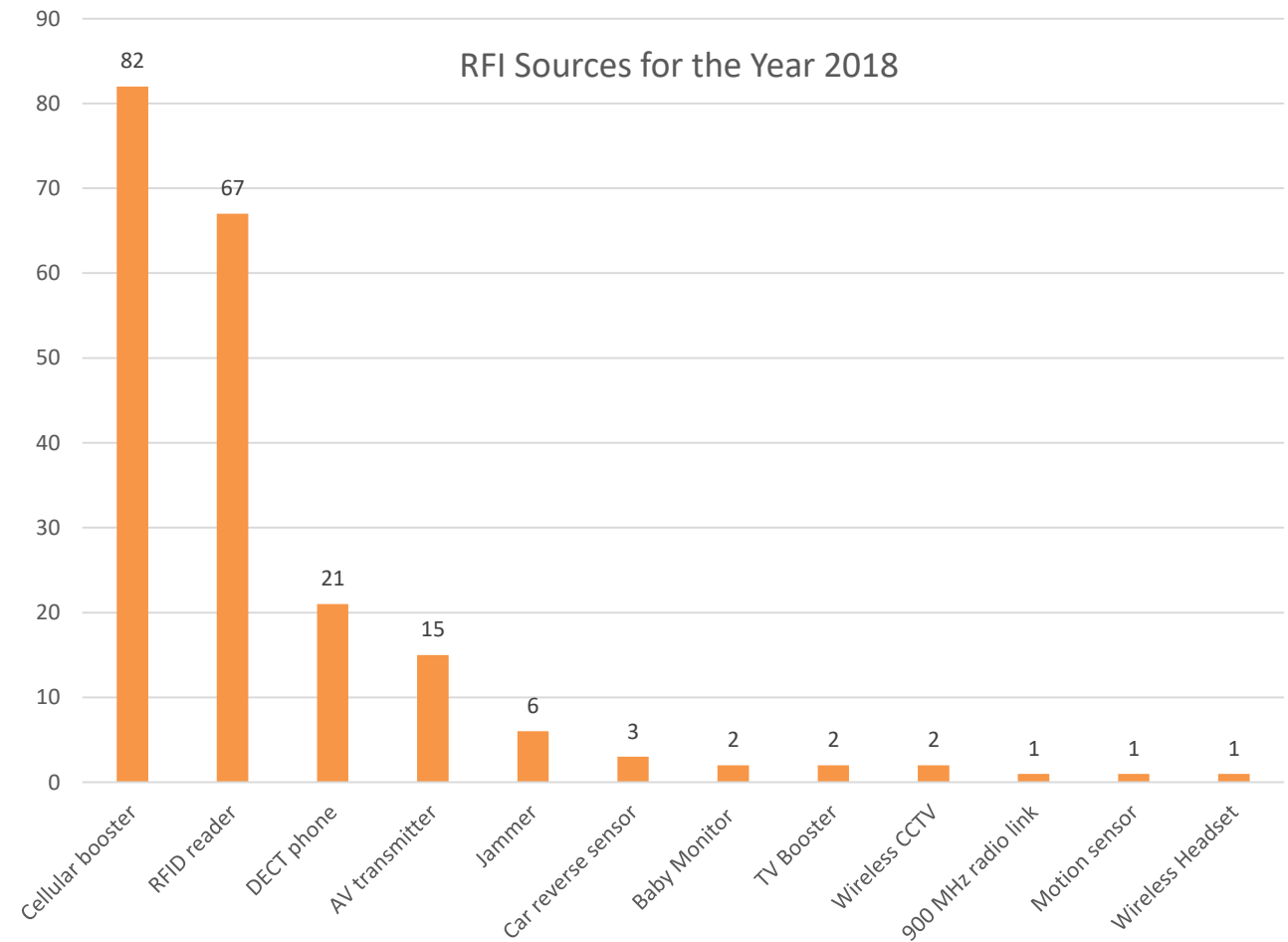
MARKET SURVEILLANCE (1)

Aims to monitor continuous compliance of communication devices with the applicable technical standards and specifications enforced by MCMC

Sampling Plan

- Sampling plan shall be approved by MCMC.
- May include products with radio interference cases (e.g. RFID, Wireless AV Sender and etc.)

Purchase & Evaluation of samples

- Samples are purchased randomly based on the sampling plan
- Evaluation is based on **certification status**, **result of testing** and **labelling status**

Industry Engagement

- Engaged with identified stakeholders based on the findings of previous Market Surveillance
- Alternate year with Market Surveillance

Actions against Non-Compliances

- **Certified** products but fail test and/or no label – Administrative actions by certifying agency which includes **corrective and preventive measures**.
- **Non-Certified** products – **Legal actions** against sellers and/or suppliers
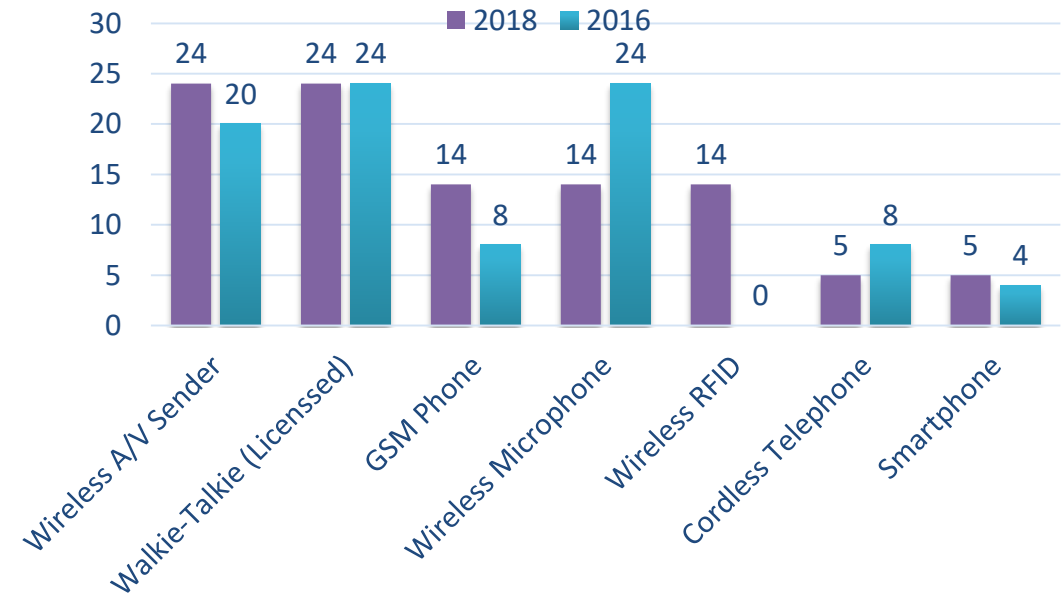
MARKET SURVEILLANCE (2)

FINDINGS
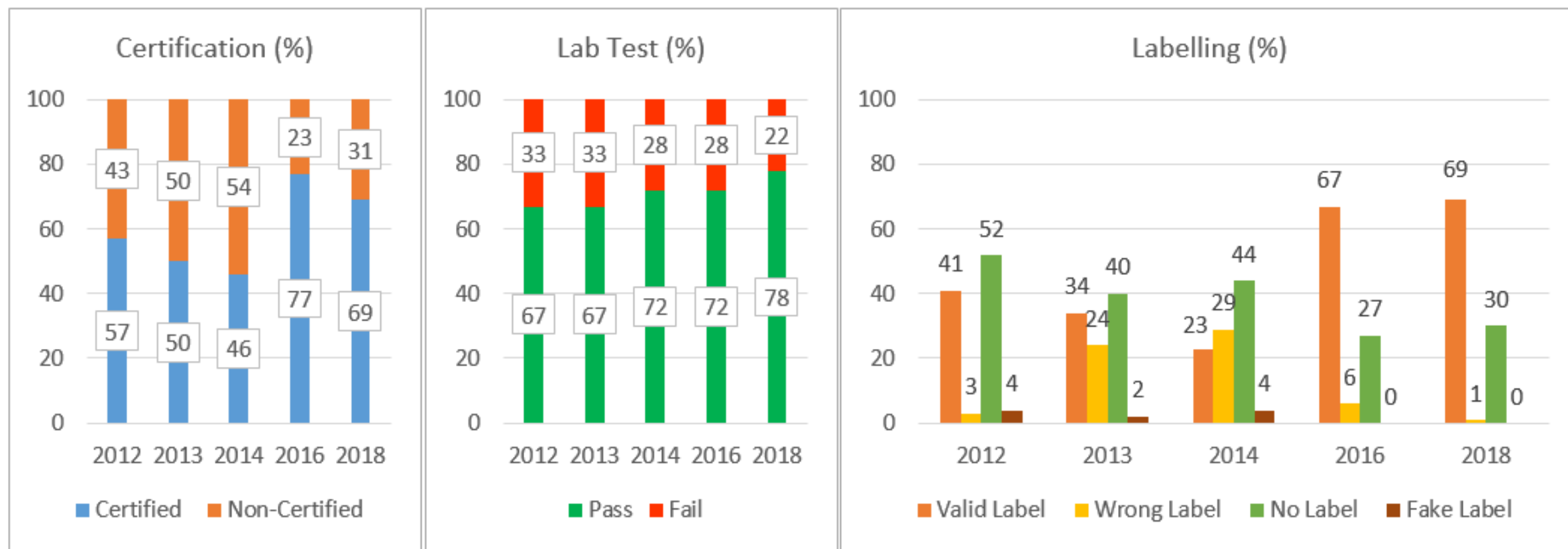
TREND OF NON-CONFORMARNCE (2016 – 2018)

Trend: Non-Certified (%)

Legend: ■ 2018 ■ 2016

	Wireless Microphone	Wireless RFID	Wireless A/V Sender	Walkie-Talkie (Licensed)	Wireless Media Player	Hybrid - Camera	GSM Phone	Hybrid - Wearables
2018	7 (24%)	6 (20%)	4 (13%)	4 (13%)	4 (13%)	3 (10%)	1 (4%)	1 (3%)
2016	6 (29%)	0 (0%)	4 (14%)	1 (5%)	5 (19%)	1 (10%)	1 (5%)	2 (4%)

Trend: Fail Lab Test (%)

Legend: ■ 2018 ■ 2016

	Wireless A/V Sender	Walkie-Talkie (Licenssed)	GSM Phone	Wireless Microphone	Wireless RFID	Cordless Telephone	Smartphone
2018	5 (24%)	5 (24%)	3 (14%)	3 (14%)	3 (14%)	1 (5%)	1 (5%)
2016	5 (20%)	6 (24%)	2 (8%)	6 (24%)	0 (0%)	2 (8%)	1 (4%)

THANK YOU

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