

現場電磁輻射評估和電磁屏蔽防護服務

Hong Kong Productivity Council
19 December 2019



EM radiation all around us

- Over 47,000 mobile base stations (2G,3G,4G)
- Over 18,000 electricity substations
- 10 Railway lines, Sound & TV broadcast
- IoT infrastructure (e.g. WiFi router, iBeacon, RFID, GPS)
- Others unintentional EM radiation (e.g. LED lamp, Electric car)
- 5G & NBIoT network in the future
- Smart Electronic Devices

EM radiation all around us hkpc





EM Radiation



Health



Mrs. Lee (inset) blames her stage three cervica Tseung Kwan O. Photo: HKEJ

> Hong Kong > Local



Mar 6, 2017 3:55pm

Rooftop cellphor cancer scare

Like 23 people like this. Sign Up to see vi your friends like.

A Hong Kong man said three memb five years which he blames on radia installed at the rooftop of the buildi

The man, surnamed Liu, made the allegation after he discovered that at least 21 radio base stations for mobile communication devices had been installed above the roof or near their flat at Tai Ping Estate in Sheung Shui.

Liu's case is similar to 31 others who sought assistance from legislator Andrew Wan Siu-kin of the







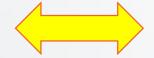








EM Radiation Health



By On-site EM radiation Risk Assessment



- WHO, ICNIRP Guidelines, Code of Practice (OFCA)
- To establish guidelines and reference levels for limiting EMF exposure that will provide protection against known adverse health effects







On-site EM Radiation Assessment hkpc hkpc





Commercial building, Office





Medical Centers, Hospital



Shopping Mall



Service Scope





Data Centre



Factory



Rail line



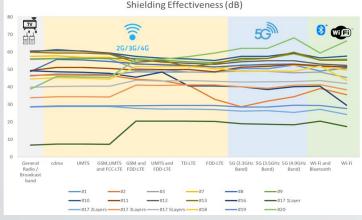


Electromagnetic Shielding Solution

- New test service "Shielding Effectiveness Measurement for EMI shielding material and products"
- New database on EMI shielding material and products

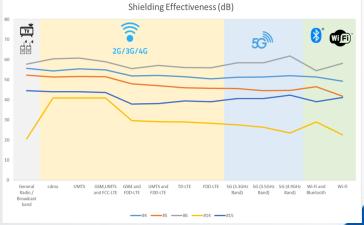
Home decoration materials





Personal use materials





Electromagnetic Shielding Effectiveness Measurement Service

Measurement Specification

Frequency Range: 30 MHz — 10 GHz (covered 3G, 4G,

5G, WiFi, Bluetooth and TV/Radio

Broadcast)

Applicable Products: Domestic and Industrial applications

such as cloth, paints, wallpapers,

nets, window films, blanket, wallets,

hats

Standard: ASTM D4935-18 or GJB 6190-2008

Dynamic Range: > 80 dB

Test Sample: Planar material ≤ 2mm thickness

Measured parameter: Ratio (dB) or percent (%)













One-Stop service for EMI Safety Solution:

On-site EM radiation Risk Assessment + Shielding Solution

On-site Risk Assessment on EMI exposure level

Determination of EMI threat source

Recommendations on EMI mitigation



HKPC Laboratory Testing



EM Centre











Concessions for SMEs and Startups





^{*}These concessionary offers are applicable to SMEs and startups engaging HKPC's services and training courses till 31 March 2020.



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