IAQ Objectives

Parameter	Averaging Time	Unit	Excellent Class	Good Class
Carbon Dioxide (CO_2)*	8-hour	mg/m^3	1,400	1,800
		ppmv	800	1,000
Carbon Dioxide (CO)*	8-hour	mg/ m^3	2,000	7,000
		ppmv	1.7	6.1
Respirable Suspended Particulates (PM_{10})*	8-hour	$\mu g/m^3$	20	100
Nitrogen Dioxide (NO2)	8-hour	$\mu g/m^3$	40	150
		ppbv	21	80
	1-hour	$\mu g/m^3$	100	200
		ppbv	53	106
Ozone (O3)	8-hour	$\mu g/m^3$	50	120
		ppbv	25	61
Formaldehyde (HCHO)	8-hour	$\mu g/m^3$	30	100
		ppbv	24	81
	30-minute	$\mu g/m^3$	70	100
		ppbv	57	81
Total Volatile Organic Compounds (TVOC)	8-hour	$\mu g/m^3$	200	600
		ppbv	87	261
Radon (Rn)	8-hour	Bq/m^3	150	167
Airborne Bacteria	8-hour	cfu/m^3	500	1,000
Mould*	---	---	Assessment in the form of walkthrough inspection	

** Measurement for CO_2, PM_{10} and assessment of mould is required for 1st to 4th annual re-certification for certificate renewal in a 5-year cycle.*

Update of the Alternative Compliance Arrangement for TVOC

VOC Species	8-hour Average[(1)]
Benzene	17μg/m^3 (*5.3 ppbv*)
Tetrachloroethylene	250μg/m^3 (*37 ppbv*)
Trichloroethylene	230μg/m^3 (*43 ppbv*)
Naphthalene	10μg/m^3 (*1.9 ppbv*)
Polycyclic Aromatic Hydrocarbons (as benzo(1)pyrene)	1.2 ng/m^3 (*1.2×10^{-4} ppbv*)

(1) The objectives are applicable to both Excellent and Good Classes. Compliance with the respective objective of the five individual VOC species is regarded as meeting Good Class TVOC objective. If at the same time the sum of the five individual VOC is less than or equal to 200 μg/m^3 (the Excellent Class TVOC objective level), it will be regarded as complying with the Excellent Class TVOC objective.