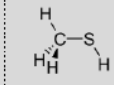
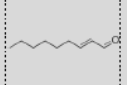
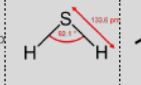
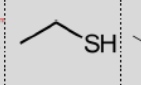
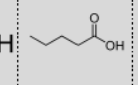
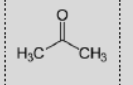
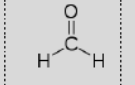
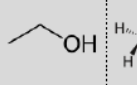
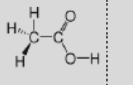
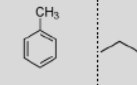
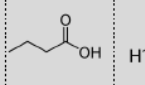
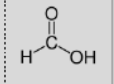
Summary of living environment odors

Kaltech KL-WC01 @ 1 mBOX H Mode																		
	Acetaldehyde	Ammonia	Indole	Skatole	Methyl Mercaptan	Nonenal	Hydrogen sulphide	Ethanethiol	Geminialic	Trimethylamine	Acetone	Formaldehyde	Kerosene	Ethanol	Acetic acid	Toluene	Butanoic acid	Formic acid
	C2H4O	NH_3	C8H7N	C9H9N	CH_4S	$C_9H_{16}O$	H2S	CH3CH2SH	C5H10O2	C3H9N	CH3COCH3	HCHO	Hydrocarbon	C_2H_6O	CH_3COOH	$C_6H_5CH_3$	$C_4H_8O_2$	CH_2O_2
A Odor threshold(ppm)	0.0015	1.5	0.0003	0.0000056	0.0007	0.0003	0.00041	0.0000087	0.000037	0.00032	42	0.5	0.05	0.52	0.006	0.33	0.00019	2.7
B Deodorization halving time (min)	4.5	1.9		3.5	9.3	3.1	3.5		3.5	3	4.5	4.2	3.2	10	3.8	7		3
C Reduce to 3% from start(min)	25	16		48	200	20	20		20	18	85	20	21	100	20	85		20
D After 30min remaining(VOC)	0%	0%		7%	20%	0%	0%		0%	0%	13%	0%	0%	23%	0%	15%		1%
1 **Human poop smell**			✓	✓	✓													
2 **Human urine smell**		✓																
3 **Skunk smell**					✓													
4 **Age-related odor**						✓												
5 **Cat poop smell**			✓	✓			✓										✓	
6 **Cat pee smell**		✓						✓										
7 **Trash can smell**					✓				✓	✓								
8 **Light remover**											✓							
9 **Wallpaper, glue**												✓				✓		
10 **Kerosene smell**													✓					
11 **Alcohol smell**														✓				
12 **Natto smell**		✓																
13 **Sorcerium smell**															✓			
14 **Cigarette smell**	✓	✓					✓					✓						
	Hangover bad breath	**Smell of urine**	Fecal smell	Smell of feces, naphthalene at rare rate	The smell of rotten onions	Stink bug smell	**The smell of rotten eggs**	The smell of rotten radish	Odor on the soles of the feet	The smell of rotten squid	The smell of apple persimmon ripeness	**Pungent odor**	Kerosene smell	Alcohol odor	Vinegar smell	Thinner odor	Feces or gingko odor	pungent smell

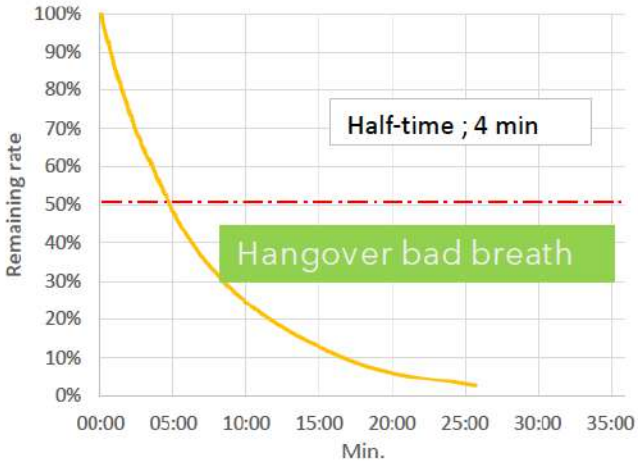
The concentration time after decomposition is 3% as 1/2 as a feeling. In addition, the glass cloth and corrugated calculate about twice as much.
Ex.) 25 minutes by corrugated is about 50 minutes by glass cloth

A: Minimum concentration of odor in humans
B: Time when the concentration level is halved in the VOC sensor
C: Time for the VOC sensor to reach 3% concentration (sensory level halved at human odor level)
D: Residual rate of VOC sensor concentration after 30 minutes of operation

Living Environment Odor DATA (1)

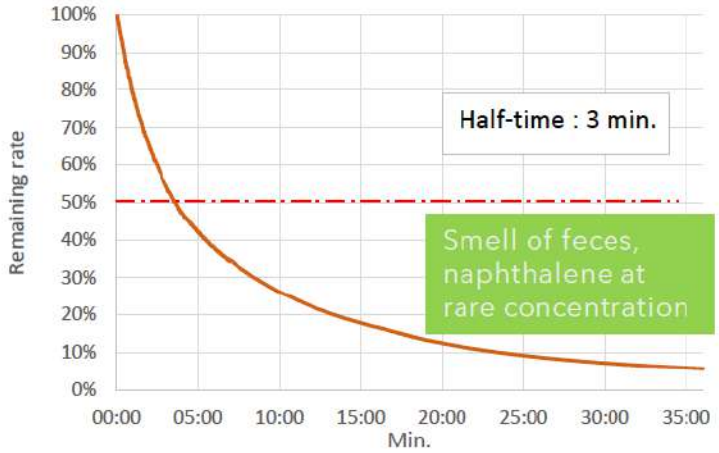
Acetaldehyde test (@KL-WC01 corgate type)

3ppm 1㎥BOX High mode



Skatole @KL-WC01 Corrugated type

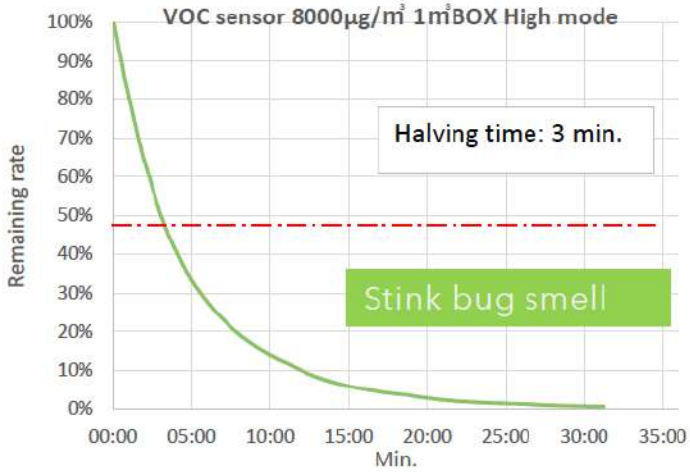
VOC sensor 8000μg/㎥ 1㎥BOX High mode



Nonenal (age-related odor)

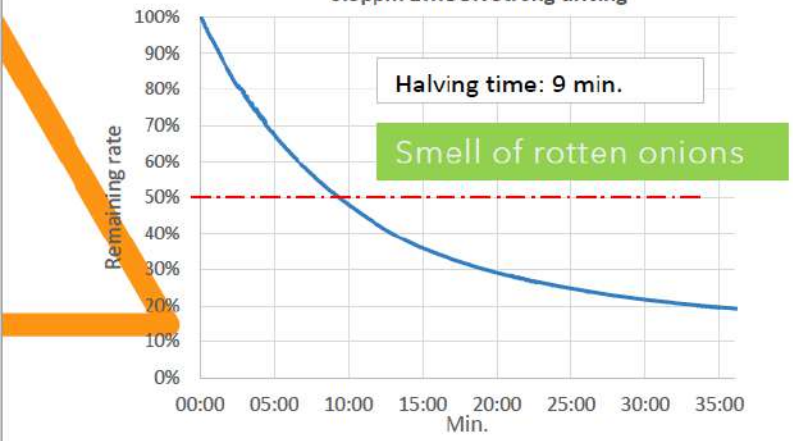
@KL-WC01 corrugated type

VOC sensor 8000μg/㎥ 1㎥BOX High mode



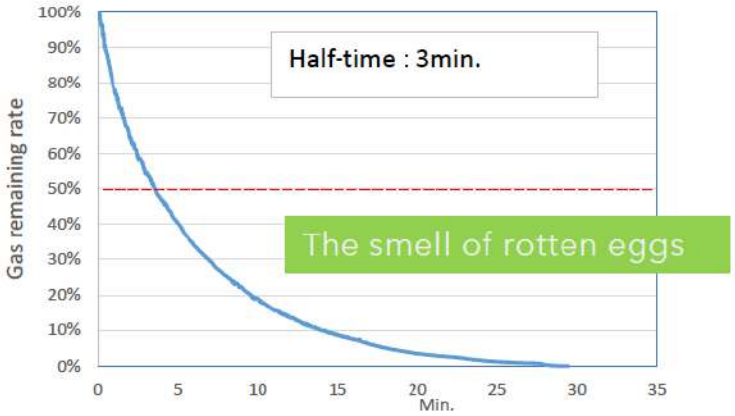
Methyl Mercaptan @KL-WC01 Corrugated type

0.5ppm 1㎥BOX Strong driving



Hydrogen sulfide (@KL-WC01 corrugated type)

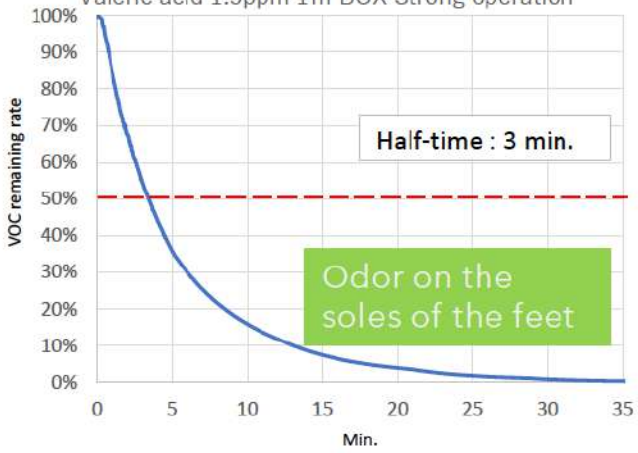
Hydrogen sulfide 3ppm 1㎥BOX



Living Environment Odor DATA (2)

Oxalate (@KL-WC01)

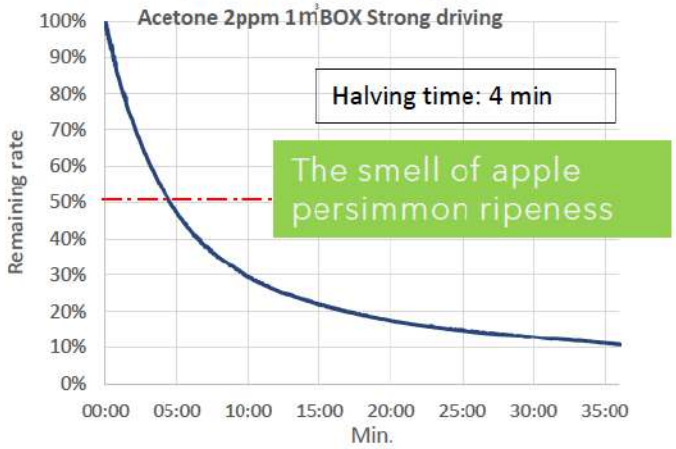
Valeric acid 1.5ppm 1㎥ BOX Strong operation



Acetone evaluation

(@KL-WC01 corrugated type)

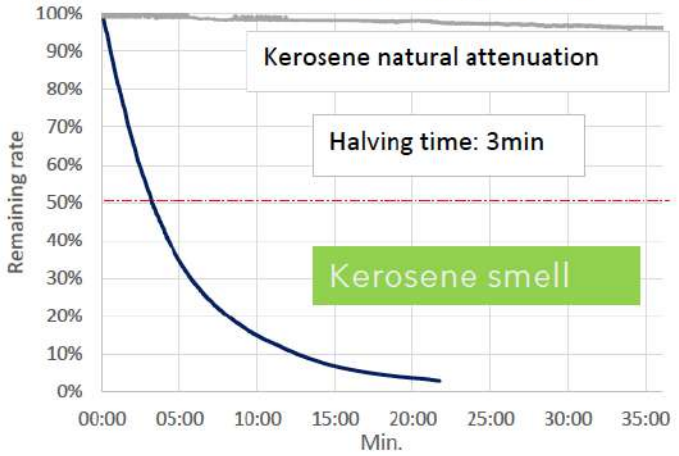
Acetone 2ppm 1㎥BOX Strong driving



Kerosene decomposition properties

(@KL-WC01)

Concentration is ppb level 1㎥BOX

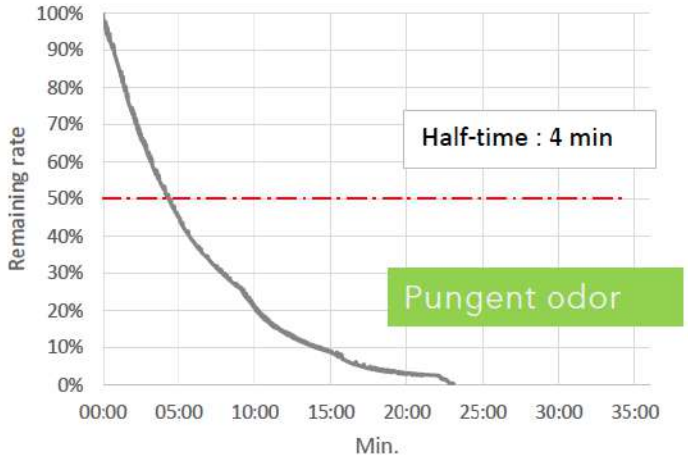


Trimethylamine (@KL-WC01)

3.75ppm 1㎥BOX Strong driving

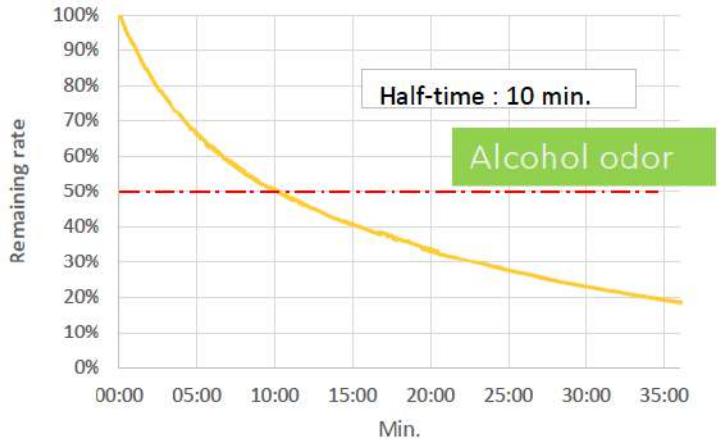
Formaldehyde @KL-WC01 Corrugated type

0.65ppm 1㎥BOX Strong operation



Ethyl Alcohol (@KL-WC01 Corrugated type)

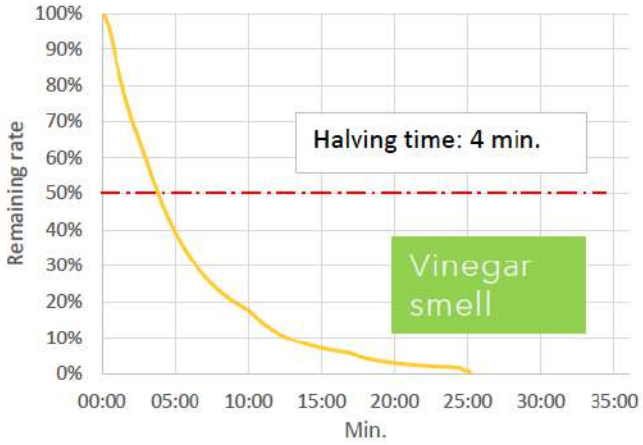
0.1ppm or less 1㎥BOX Strong operation



Living Environment Odor DATA (3)

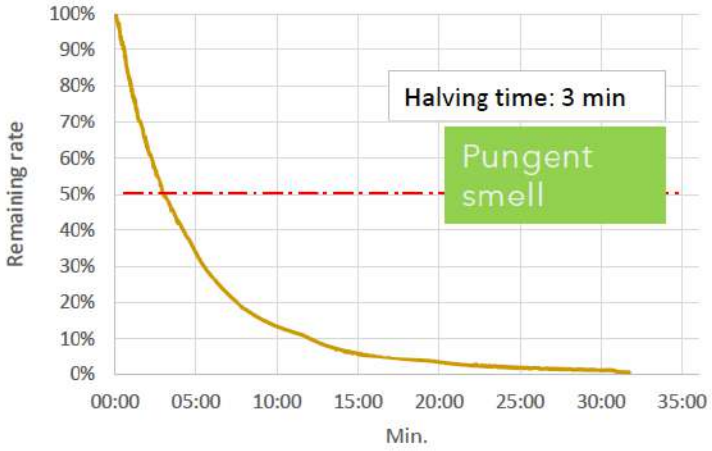
Acetic acid (@KL-WC01 corrugated type)

Acetic acid 5.5ppm 1㎥BOX Strong operation



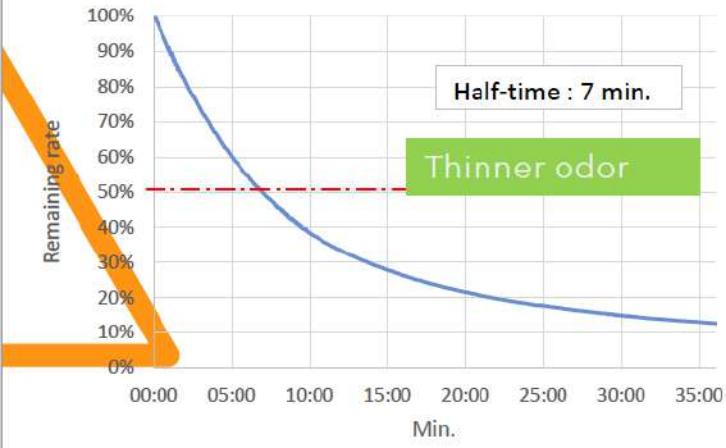
Formic acid @KL-WC01 corrugated type

30ppm 1㎥BOX Strong driving



Toluene (@KL-WC01 corrugated photocatalyst)

0.1ppm or less 1㎥BOX Strong operation



Reference) Natto decomposition smell

Odor 7000μg/㎥ 1㎥BOX