

## Limits of Detection (LODs)

## passam info

last updated: 2022

### OVERVIEW OF LODs FOR PASSAM DIFFUSION TUBES

passive sampler	Pollutant	Product no.	Lower limit of detection (LOD)				
			Mass analyte [ug]	Concentration [ug/m3] for sampling time:			
				7 days	14 days	21 days	28 days
NO2 tube with protective filter	NO <sub>2</sub>	SP01 + A04	0.01	1.50	0.75	0.50	0.37
NO2 tube without protective filter	NO <sub>2</sub>	SP01	0.01	1.20	0.60	0.40	0.30
O3 tube	O <sub>3</sub>	SP03	-	6.00	3.00	2.00	1.50
CH2O badge	CH <sub>2</sub> O	SP06	0.42	2.00	1.00	0.67	0.50
SO2 badge	SO <sub>2</sub>	SP10	0.72	6.00	3.00	2.00	1.50
NH3 badge	NH <sub>3</sub>	SP11	0.32	1.00	0.50	0.33	0.25
NOx tube with protective filter	NO <sub>x</sub>	SP12 + A04	0.04	4.99	2.49	1.66	1.25
NOx tube without protective filter	NO <sub>x</sub>	SP12	0.04	4.00	2.00	1.33	1.00
NO2 badge	NO <sub>2</sub>	SP15	0.04	0.29	0.14	0.10	0.07
BTEX	Benzol	SP16	0.05	0.80	0.40	0.27	0.20
	Toluol	SP16	0.05	0.80	0.40	0.27	0.20
	Ethylbenzol	SP16	0.04	0.80	0.40	0.27	0.20
	p-Xylol	SP16	0.04	0.80	0.40	0.27	0.20
	m-Xylol	SP16	0.04	0.80	0.40	0.27	0.20
	o-Xylol	SP16	0.04	0.80	0.40	0.27	0.20
H2S badge	H <sub>2</sub> S	SP18	0.04	0.40	0.20	0.13	0.10
NO2-SO2 Kombi badge	NO <sub>2</sub>	SP19	1.25	8.00	4.00	2.67	2.00
	SO <sub>2</sub>	SP19	0.96	8.00	4.00	2.67	2.00
O3 badge	O <sub>3</sub>	SP20	0.45	4.00	2.00	1.33	1.00
HCl badge	HCl	SP21	0.33	2.00	1.00	0.67	0.50
HF badge	HF	SP22	0.42	2.00	1.00	0.67	0.50
CO badge	CO	SP23	-	1200	600	400	300