

Target gas	Spectral window ( $\text{cm}^{-1}$ )	Interfering gases	$3\sigma$ noise level detection limit for 913.7 m path
$\text{CO}_2^{\text{a}}$	2030–2133	$\text{H}_2\text{O}$ , $\text{CO}$	4.0 ppm
$\text{CO}$	2080–2133	$\text{H}_2\text{O}$ , $\text{CO}_2$	1.1 ppb
$\text{NO}_2$	2910–2924.5	$\text{H}_2\text{O}^{\text{b}}$ , $\text{CH}_4$	7.2 ppb
$\text{O}_3$	1031.5–1063	$\text{H}_2\text{O}$ , $\text{CO}_2$ , $\text{NH}_3$ , $\text{CH}_3\text{OH}$	4.5 ppb
$\text{NH}_3$	1031.5–1063	$\text{H}_2\text{O}$ , $\text{CO}_2$ , $\text{O}_3$ , $\text{CH}_3\text{OH}$	0.8 ppb
$\text{HCHO}$	2745–2800	$\text{H}_2\text{O}^{\text{b}}$ , $\text{CH}_4$ , $\text{N}_2\text{O}$	1.5 ppb
$\text{CH}_3\text{OH}$	1031.5–1063	$\text{H}_2\text{O}$ , $\text{CO}_2$ , $\text{NH}_3$ , $\text{O}_3$	0.9 ppb
$\text{CH}_4$	2900–2963	$\text{H}_2\text{O}$ , $\text{NO}_2$ , $\text{HCHO}$	1.1 ppb
$\text{N}_2\text{O}$	2132.5–2235	$\text{H}_2\text{O}$ , $\text{CO}_2$ , $\text{CO}$	0.6 ppb