

Species	Ratio (NOAA / AGAGE)	NOAA scale method	AGAGE (SIO) scale method	Sites	Time period	Comment
CH ₄	1.0001 ± 0.0007	NOAA-2004A GC-FID	Tohoku University GC-FID (GC-MD)	Five sites (CGO, SMO, RPB, THD, MHD)	1993–2017	0.1 % consistency over time
N ₂ O	0.9983 ± 0.0005	NOAA-2006A GC-ECD	SIO-16 GC-ECD (GC-MD)	Five sites (CGO, SMO, RPB, THD, MHD)	1997–2017	0.1–0.2 % consistency over time, slight increasing trend of 0.08 % per decade
SF ₆	1.0049 ± 0.0029	NOAA-2014 GC-ECD	SIO-05 GC-MS Medusa	Six sites (CGO, SMO, RPB, THD, MHD, ZEP)	2004–2017	Small step in 2010, 0.5 % consistency over time
CFC-11	0.9993 ± 0.0009	NOAA-2016 GC-ECD	SIO-05 GC-ECD (GC-MD)	Four sites (CGO, SMO, THD, MHD)	1993–2017	~ 1 % consistency over time
CFC-12	0.9962 ± 0.0010	NOAA-2008 GC-ECD	SIO-05 GC-ECD (GC-MD)	Four sites (CGO, SMO, THD, MHD)	1993–2017	0.5 % consistency over time
CFC-113	1.0003 ± 0.0023	NOAA-2003MS GC-MS	SIO-05 GC-ECD–GC-MS Med	Four sites (CGO, SMO, THD, MHD)	1993–2017	~ 1 % consistency over time
CCl ₄	1.015–1.038 (not constant, see comments)	NOAA-2008 GC-ECD	SIO-05 GC-ECD (GC-MD)	Four sites (CGO, SMO, THD, MHD)	1995–2017	Trend: 3.5–4.0 % difference in 1995–2000, to approximately 1.5 % difference in 2013–2017
CH ₃ CCl ₃	1.0055 ± 0.0109	NOAA-2003 GC-MS	SIO-05 GC-ECD–GC-MS Med	Four sites (CGO, SMO, THD, MHD)	1993–2017	Initial trend during 1993–2000, from 3 % down to 0.5 % difference, then good agreement within 1 %
HCFC-22	0.9971 ± 0.0027	NOAA-2006 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	1–2 % consistency over time
HCFC-141b	0.9941 ± 0.0049	NOAA-1994 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	~ 2 % consistency over time
HCFC-142b	0.9743 ± 0.0052	NOAA-1994 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	~ 2 % consistency over time
HFC-134a	1.0015 ± 0.0048	NOAA-1995 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	~ 2 % consistency, better recently
HFC-152a	0.9976 ± 0.0227	NOAA-2004 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	2–3 % consistency over time
H-1211	0.9799 ± 0.0050	NOAA-2006 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	~ 2 % consistency over time
H-1301	0.9766 ± 0.0098	NOAA-2006 GC-MS	SIO-05 GC-MS Medusa	Three sites (CGO, SMO, THD)	2004–2015	~ 2 % consistency over time
H-2402	1.0208 ± 0.0100	NOAA-1992 GC-MS	SIO-14 GC-MS Medusa	Four sites (CGO, SMO, THD, MHD)	2004–2017	Small step change 2008–2009, 3–4 % consistency over time
CH ₃ Cl	1.0074 ± 0.0073	NOAA-2003 GC-MS	SIO-05 GC-MS-ADS Med	Four sites (CGO, SMO, THD, MHD)	1998–2017	2 % consistency over time