

G.

H = 12 km

Statistics Summary:

T	[°C]		6.70(24)	29.70(35)	52.40(08)
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P	[torr] [kPa]		146.20(18)	146.10(15) 19.487	146.10(25)
$\sigma_x(\Delta\alpha)$	[dB/km]		0.084	0.090	0.084

H = 12 km

6.7°C		29.7°C		52.4°C	
f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$
P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$
dB/km		dB/km		dB/km	
53.89324	0.15(.03)	53.89337	0.28(.03)	53.89350	0.29(.03)
146.2	0.20(0.05)	146.3	0.20(-0.08)	146.1	0.20(-0.09)
53.99199	0.23(.02)	53.99208	0.13(.02)	53.99221	0.37(.03)
146.2	0.25(0.02)	146.2	0.25(0.12)	146.0	0.25(-0.12)
54.09059	0.26(.02)	54.09075	0.29(.03)	54.09079	0.29(.03)
146.3	0.32(0.06)	145.9	0.33(0.04)	146.0	0.34(0.05)
54.18934	0.33(.03)	54.18969	0.30(.02)	54.18949	0.37(.04)
146.1	0.34(0.01)	145.9	0.35(0.05)	146.4	0.36(-0.01)
54.28796	0.39(.02)	54.28802	0.29(.02)	54.28814	0.36(.04)
146.3	0.32(-0.07)	146.3	0.31(0.02)	146.4	0.31(-0.05)
54.38538	0.41(.02)	54.38558	0.39(.03)	54.38683	0.39(.03)
146.4	0.32(-0.09)	146.4	0.31(-0.08)	146.0	0.30(-0.09)
54.42691	0.44(.03)	54.42795	0.41(.03)	54.42901	0.29(.04)
145.9	0.34(-0.10)	146.0	0.32(-0.09)	146.0	0.31(0.02)
54.52805	0.54(.02)	54.52920	0.44(.03)	54.52928	0.44(.03)
145.8	0.42(-0.12)	146.2	0.41(-0.03)	146.2	0.40(-0.04)
54.62897	0.45(.02)	54.62910	0.53(.03)	54.62924	0.64(.03)
146.2	0.53(0.08)	146.3	0.53(0.00)	145.9	0.54(-0.10)
54.72906	0.61(.02)	54.72916	0.62(.03)	54.72931	0.57(.02)
146.2	0.56(-0.05)	146.2	0.57(-0.05)	146.0	0.56(-0.01)
54.82903	0.61(.03)	54.82918	0.42(.02)	54.82922	0.43(.03)
146.3	0.52(-0.09)	145.9	0.50(0.08)	145.9	0.48(0.05)
54.92912	0.65(.04)	54.92948	0.41(.03)	54.92928	0.57(.04)
146.1	0.52(-0.13)	145.9	0.49(0.08)	146.4	0.46(-0.11)
55.02909	0.71(.03)	55.02915	0.46(.03)	55.02928	0.62(.05)
146.3	0.60(-0.11)	146.3	0.57(0.11)	146.4	0.53(-0.09)
55.12784	0.84(.03)	55.12805	0.74(.04)	55.12932	0.71(.03)
146.4	0.77(-0.07)	146.4	0.74(0.00)	146.0	0.71(0.00)
55.15992	0.77(.04)	55.16097	0.78(.03)	55.16204	0.84(.04)
145.9	0.82(0.05)	146.0	0.80(0.02)	146.1	0.78(-0.06)
55.26242	0.93(.03)	55.26359	0.88(.04)	55.26367	0.94(.03)
145.8	0.91(-0.02)	146.2	0.88(0.00)	146.0	0.86(-0.08)
55.36470	0.93(.03)	55.36483	0.92(.04)	55.36498	0.70(.04)
146.2	0.85(-0.08)	146.3	0.79(-0.13)	145.9	0.74(0.04)
55.46615	0.85(.03)	55.46625	0.90(.03)	55.46639	0.77(.04)
146.2	0.82(-0.03)	146.2	0.74(-0.16)	146.0	0.67(-0.10)
55.56746	1.05(.03)	55.56762	0.88(.04)	55.56767	0.66(.02)
146.3	0.92(-0.13)	145.9	0.83(-0.05)	145.9	0.75(0.09)

H = 12 km

6.7°C		29.7°C		52.4°C	
f_x [GHz] P [torr]	$\alpha_x(\delta\alpha)$ $\alpha_M(\pm\Delta\alpha)$	f_x [GHz] P [torr]	$\alpha_x(\delta\alpha)$ $\alpha_M(\pm\Delta\alpha)$	f_x [GHz] P [torr]	$\alpha_x(\delta\alpha)$ $\alpha_M(\pm\Delta\alpha)$
dB/km		dB/km		dB/km	
55.66890 146.1	1.21(.03) 1.15(-0.06)	55.66927 145.9	0.78(.04) 1.06(0.28)	55.66907 146.4	0.94(.03) 0.98(0.04)
55.77023 146.3	1.35(.02) 1.40(0.05)	55.77029 146.3	1.25(.03) 1.31(0.06)	55.77042 146.4	1.02(.03) 1.24(0.22)
55.87030 146.3	1.41(.03) 1.42(0.01)	55.87041 146.3	1.47(.02) 1.31(-0.16)	55.87181 146.0	1.16(.04) 1.20(0.04)
55.89292 145.9	1.28(.03) 1.40(0.12)	55.89399 146.0	1.23(.02) 1.28(0.05)	55.89509 146.0	1.08(.04) 1.17(0.09)
55.99678 145.8	1.28(.03) 1.35(0.07)	55.99797 146.2	1.21(.03) 1.18(-0.03)	55.99806 146.0	1.07(.04) 1.05(-0.02)
56.10043 146.2	1.53(.03) 1.45(-0.08)	56.10056 146.3	1.38(.04) 1.27(-0.11)	56.10071 145.8	1.05(.03) 1.11(0.06)
56.20323 146.2	1.80(.03) 1.75(-0.05)	56.20333 146.2	1.65(.04) 1.55(-0.10)	56.20348 146.8	1.26(.04) 1.37(0.11)
56.30589 146.3	2.17(.03) 2.10(-0.07)	56.30605 145.9	1.87(.03) 1.90(0.03)	56.30610 145.9	1.58(.04) 1.73(0.15)
56.40869 146.1	2.09(.03) 2.18(0.09)	56.40906 145.9	1.76(.03) 1.97(0.21)	56.40886 146.4	1.67(.05) 1.79(0.12)
56.51136 146.3	2.04(.04) 1.92(-0.12)	56.51143 146.3	1.77(.03) 1.69(-0.08)	56.51156 146.4	1.49(.04) 1.49(0.00)
56.62593 145.9	1.68(.03) 1.70(0.02)	56.62701 146.0	1.47(.03) 1.45(-0.02)	56.62812 146.0	1.15(.03) 1.25(0.10)
56.73116 145.8	1.64(.03) 1.76(0.12)	56.73236 146.2	1.56(.04) 1.50(-0.06)	56.73245 146.6	1.26(.04) 1.29(0.03)
56.83617 146.2	1.97(.03) 2.08(0.11)	56.83630 146.3	1.87(.04) 1.81(-0.06)	56.83645 145.9	1.51(.04) 1.59(0.08)
56.94032 146.2	2.31(.04) 2.44(0.13)	56.94043 146.2	1.99(.04) 2.18(0.19)	56.94057 146.6	1.97(.05) 1.96(-0.01)
57.04433 146.3	2.55(.06) 2.41(-0.14)	57.04449 145.9	1.92(.03) 2.13(0.21)	57.04454 145.9	1.78(.04) 1.89(0.11)
57.14848 146.2	2.11(.04) 2.10(-0.01)	57.14885 145.9	1.56(.04) 1.80(0.24)	57.14866 146.4	1.61(.03) 1.55(-0.06)
57.25251 146.3	1.75(.04) 1.93(0.18)	57.25257 146.3	1.57(.04) 1.61(0.04)	57.25270 146.4	1.23(.04) 1.36(0.13)
57.35894 145.9	2.16(.04) 2.03(-0.13)	57.35547 146.4	1.87(.04) 1.69(-0.18)	57.36117 146.0	1.57(.04) 1.44(-0.13)
57.46554 145.8	2.37(.05) 2.42(0.05)	57.46677 146.2	2.24(.04) 2.06(-0.18)	57.46685 146.1	1.69(.05) 1.77(0.08)

H = 12 km

6.7°C		29.7°C		52.4°C	
f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$
P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$
dB/km		dB/km		dB/km	
57.57191	2.91(.04)	57.57206	2.51(.04)	57.57221	2.11(.03)
146.2	2.87(-0.04)	146.2	2.51(0.00)	145.8	2.20(0.09)
57.67743	2.98(.04)	57.67753	2.52(.06)	57.67767	2.27(.05)
146.2	2.88(-0.10)	146.2	2.50(-0.02)	146.0	2.18(-0.09)
57.78278	2.48(.04)	57.78296	2.01(.04)	57.78301	1.67(.04)
146.3	2.51(0.03)	145.9	2.10(0.09)	145.9	1.78(0.11)
57.88829	2.38(.04)	57.88866	1.78(.04)	57.88847	1.58(.04)
146.2	2.25(-0.13)	145.9	1.84(0.06)	146.4	1.53(-0.05)
57.99366	2.22(.04)	57.99372	1.84(.03)	57.99387	1.62(.04)
146.3	2.30(0.08)	146.3	1.86(0.02)	146.4	1.53(-0.09)
58.09761	2.62(.02)	58.09308	2.08(.03)	58.09872	1.77(.02)
146.2	2.67(0.05)	146.2	2.16(0.08)	146.2	1.81(0.04)
58.18668	3.22(.02)	58.20117	2.75(.04)	58.18832	2.40(.02)
146.1	3.24(0.02)	146.2	2.80(0.05)	146.2	2.28(-0.12)
58.29234	3.85(.03)	58.30780	3.49(.03)	58.30796	2.96(.03)
146.1	3.95(0.10)	146.2	3.43(-0.06)	146.0	2.96(0.00) 11
58.37554	4.08(.02)	58.37630	3.37(.02)	58.37644	2.89(.03)
146.1	4.15(0.07)	146.2	3.54(0.17)	146.1	3.05(0.16)
58.41453	3.85(.04)	58.41463	3.21(.03)	58.41478	2.75(.04)
146.2	4.09(0.24)	146.2	3.47(0.26)	145.6	2.97(0.22)
58.46854	3.73(.04)	58.46909	3.06(.03)	58.46933	2.82(.02)
146.0	3.88(0.15)	146.2	3.25(0.19)	146.3	2.76(-0.06)
58.52122	3.45(.03)	58.52140	2.83(.03)	58.52145	2.38(.04)
146.3	3.60(0.15)	145.9	2.98(0.15)	145.9	2.50(0.12)
58.56129	3.28(.01)	58.56163	2.76(.02)	58.56198	2.16(.02)
146.1	3.37(0.09)	146.1	2.76(0.00)	146.2	2.30(0.14)
58.62808	3.04(.03)	58.62846	2.28(.03)	58.62825	2.00(.03)
146.1	3.02(-0.02)	145.9	2.44(0.16)	146.4	2.00(0.00)
58.73479	2.67(.03)	58.73486	2.03(.03)	58.73500	1.65(.03)
146.3	2.66(-0.01)	146.4	2.12(0.09)	146.4	1.72(0.07)
58.84019	2.51(.02)	58.84042	2.13(.02)	58.82725	1.82(.02)
146.4	2.60(0.09)	146.4	2.07(-0.06)	146.0	1.66(-0.16)
58.92088	2.73(.02)	58.92278	2.28(.01)		
146.1	2.76(0.03)	146.1	2.22(-0.06)		
59.02789	2.96(.02)	59.02812	2.55(.01)	59.04367	2.35(.03)
146.1	3.19(0.23)	146.1	2.61(0.06)	145.8	2.23(-0.12)
59.11213	3.33(.02)	59.15169	3.04(.03)	59.15185	2.48(.03)
146.1	3.54(0.21)	146.2	3.03(-0.01)	146.4	2.57(0.09)

H = 12 km

6.7°C		29.7°C		52.4°C	
f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$
P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$
dB/km		dB/km		dB/km	
59.20631	3.55(.02)	59.20687	2.93(.02)	59.20710	2.48(.01)
146.0	3.63(0.08)	146.2	3.02(0.09)	146.2	2.55(0.07)
59.25963	3.50(.02)	59.25980	2.92(.02)	59.25986	2.45(.04)
146.3	3.53(0.03)	145.9	2.91(-0.01)	145.9	2.43(-0.02)
59.30023	3.41(.02)	59.30058	2.77(.01)	59.30093	2.35(.02)
146.1	3.42(0.01)	146.1	2.80(0.03)	146.2	2.32(-0.03)
59.36784	3.31(.02)	59.36822	2.60(.02)	59.36802	2.22(.03)
146.1	3.31(0.00)	145.9	2.68(0.08)	146.4	2.20(-0.02)
59.39587	3.33(.01)	59.39599	2.66(.01)	59.39672	2.12(.01)
146.1	3.29(-0.04)	146.1	2.67(0.01)	146.1	2.19(0.07)
59.47589	3.27(.03)	59.47596	2.59(.02)	59.47610	2.19(.03)
146.3	3.37(0.10)	146.4	2.74(0.15)	146.4	2.27(0.08)
59.56376	3.43(.01)	59.56459	2.88(.01)	59.56490	2.33(.01)
146.2	3.51(0.08)	146.1	2.89(0.01)	146.2	2.42(0.09)
59.58263	3.50(.03)	59.58274	2.98(.03)	59.58423	2.37(.03)
146.3	3.52(0.02)	146.3	2.90(-0.08)	146.0	2.43(0.06)
59.65508	3.30(.01)	59.66988	2.67(.03)	59.66998	2.21(.04)
146.1	3.45(0.15)	146.2	2.80(0.13)	145.9	2.33(0.12)
59.76343	3.02(.01)	59.76365	2.35(.01)	59.76395	1.98(.01)
146.1	3.13(0.11)	146.1	2.51(0.16)	145.8	2.05(0.07)
59.84872	2.90(.01)	59.84951	2.27(.01)	59.84966	1.79(.01)
146.1	2.92(0.02)	146.2	2.31(0.04)	146.1	1.87(0.08)
59.94408	2.88(.01)	59.94464	2.25(.01)	59.94488	1.76(.01)
146.0	2.89(0.01)	146.1	2.28(0.03)	146.2	1.83(0.07)
60.03916	3.08(.01)	60.03951	2.44(.01)	60.03988	1.91(.01)
146.1	3.13(0.05)	146.1	2.48(0.04)	146.2	2.01(0.10)
60.13599	3.65(.01)	60.13612	2.88(.01)	60.13686	2.35(.01)
146.1	3.64(-0.01)	146.1	2.94(0.06)	146.1	2.42(0.07)
60.21700	4.06(.09)	60.29769	3.84(.01)	60.21721	3.02(.08)
146.3	4.23(0.17)	146.1	3.98(0.14)	146.4	2.90(-0.12)
60.29685	4.62(.01)			60.29800	3.01(.01)
146.2	4.76(0.14)			146.2	3.37(0.36)
60.32508	4.77(.07)	60.32533	3.93(.07)	60.32671	3.38(.08)
146.4	4.89(0.12)	146.4	4.10(0.17)	146.0	3.49(0.11)
60.38930	4.84(.01)	60.39124	4.07(.01)	60.39102	3.45(.01)
146.1	5.02(0.18)	146.1	4.22(0.15)	146.2	3.61(0.16)
60.49898	4.42(.01)	60.49923	3.63(.01)	60.49951	3.10(.01)
146.1	4.58(0.16)	146.1	3.81(0.18)	145.8	3.22(0.12)

H = 12 km

6.7°C		29.7°C		52.4°C	
f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$
P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$
dB/km		dB/km		dB/km	
60.58533	3.77(.01)	60.58612	3.06(.01)	60.58628	2.57(.01)
146.0	3.89(0.12)	146.2	3.18(0.12)	146.2	2.63(0.06)
60.68186	3.15(.01)	60.68243	2.57(.01)	60.68267	2.08(.01)
146.0	3.24(0.09)	146.2	2.60(0.03)	146.3	2.12(0.04)
60.77811	2.84(.01)	60.77847	2.25(.01)	60.77884	1.78(.01)
146.0	2.89(0.05)	146.1	2.31(0.06)	146.2	1.87(0.09)
60.87614	2.79(.01)	60.87627	2.30(.00)	60.87702	1.81(.01)
146.1	2.87(0.08)	146.1	2.31(0.01)	146.1	1.88(0.07)
61.02993	3.27(.01)	61.03079	2.75(.01)	61.03111	2.31(.01)
146.2	3.43(0.16)	146.1	2.86(0.11)	146.2	2.41(0.10)
61.12349	3.61(.02)	61.12547	3.01(.01)	61.12539	2.65(.01)
146.1	3.77(0.16)	146.3	3.21(0.20)	146.2	2.77(0.12)
61.23469	3.49(.01)	61.23485	2.89(.01)	61.23506	2.44(.01)
146.1	3.57(0.08)	146.2	3.01(0.12)	145.8	2.57(0.13)
61.32192	3.09(.00)	61.32273	2.49(.00)	61.32292	2.12(.01)
146.0	3.11(0.02)	146.2	2.57(0.08)	146.2	2.15(0.03)
61.41969	2.75(.01)	61.42035	2.22(.01)	61.42042	1.86(.01)
146.1	2.75(0.00)	146.0	2.24(0.02)	146.2	1.85(-0.01)
61.51705	2.71(.00)	61.51741	2.22(.01)	61.51779	1.86(.01)
146.1	2.70(-0.01)	146.1	2.20(-0.02)	146.1	1.82(-0.04)
61.61628	2.99(.01)	61.61648	2.52(.01)	61.61715	2.05(.01)
146.1	2.97(-0.02)	145.8	2.47(-0.05)	145.8	2.08(0.03)
61.76299	3.56(.01)	61.76418	3.06(.01)	61.76417	2.67(.01)
146.1	3.63(0.07)	146.1	3.14(0.08)	146.2	2.74(0.07)
61.85769	3.50(.01)	61.85970	3.01(.01)	61.85963	2.55(.01)
146.1	3.60(0.10)	146.3	3.09(0.08)	146.2	2.70(0.15)
61.97023	3.10(.01)	61.97039	2.64(.01)	61.97061	2.17(.01)
146.0	3.13(0.03)	146.2	2.62(-0.02)	145.8	2.22(0.05)
62.05847	2.97(.01)	62.05935	2.48(.01)	62.05952	2.04(.01)
146.0	2.91(-0.06)	145.8	2.41(-0.07)	146.2	2.01(-0.03)
62.15746	3.04(.01)	62.15814	2.50(.00)	62.15821	2.07(.01)
146.1	3.01(-0.03)	146.1	2.50(0.00)	146.2	2.10(0.03)
62.25600	3.45(.01)	62.25635	2.92(.01)	62.25674	2.49(.01)
146.0	3.47(0.02)	146.1	2.95(0.03)	146.1	2.53(0.04)
62.35658	3.91(.01)	62.35662	3.45(.01)	62.35731	3.03(.01)
146.0	4.08(0.17)	145.8	3.56(0.11)	145.8	3.14(0.11)
62.49608	3.89(.01)	62.49728	3.37(.01)	62.49728	3.10(.01)
146.1	4.04(0.15)	146.1	3.52(0.15)	146.3	3.10(0.00)

H = 12 km

6.7°C		29.7°C		52.4°C	
f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$	f_x [GHz]	$\alpha_x(\delta\alpha)$
P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$	P [torr]	$\alpha_M(\pm\Delta\alpha)$
dB/km		dB/km		dB/km	
62.59190	3.36(.01)	62.59394	2.86(.01)	62.59386	2.35(.01)
146.1	3.41(0.05)	146.3	2.90(0.04)	146.2	2.50(0.15)
62.70578	2.81(.01)	62.70595	2.26(.00)	62.70617	1.97(.01)
146.0	2.77(-0.04)	146.2	2.34(0.08)	145.8	1.99(0.02)
62.79507	2.52(.01)	62.79596	2.15(.00)	62.79614	1.86(.01)
146.0	2.56(0.04)	145.8	2.19(0.04)	146.2	1.88(0.02)
62.89524	2.62(.01)	62.89592	2.28(.01)	62.89600	2.01(.01)
146.1	2.62(0.00)	146.1	2.31(0.03)	146.2	2.05(0.04)
62.99495	2.55(.00)	62.99531	2.35(.01)	62.99571	2.08(.01)
146.0	2.63(0.08)	146.1	2.38(0.03)	146.1	2.17(0.09)
63.09673	2.27(.01)	63.09677	1.98(.01)	63.09747	1.81(.01)
146.0	2.25(-0.02)	145.8	2.02(0.04)	145.8	1.81(0.00)
63.22916	1.73(.00)	63.23038	1.53(.01)	63.23037	1.33(.01)
146.1	1.70(-0.03)	146.1	1.48(-0.05)	146.2	1.30(-0.03)
63.32610	1.54(.00)	63.32816	1.42(.01)	63.32809	1.24(.01)
146.1	1.56(0.02)	146.3	1.37(-0.05)	146.2	1.21(-0.03)
63.44133	1.61(.00)	63.44149	1.56(.01)	63.44172	1.35(.01)
146.0	1.65(0.04)	146.2	1.51(-0.05)	145.8	1.38(0.03)
63.53167	1.78(.01)	63.53256	1.71(.01)	63.53275	1.55(.01)
146.0	1.78(0.00)	145.8	1.67(-0.04)	146.2	1.57(0.02)
63.63301	1.64(.00)	63.63370	1.43(.01)	63.63379	1.39(.01)
146.1	1.64(0.00)	146.1	1.54(0.11)	146.2	1.44(0.05)
63.73389	1.26(.01)	63.73426	1.21(.00)	63.73466	1.08(.01)
146.0	1.31(0.05)	146.1	1.20(-0.01)	146.1	1.09(0.01)
63.83686	1.08(.00)	63.83691	0.92(.01)	63.83762	0.89(.00)
146.0	1.09(0.01)	145.8	0.99(0.07)	145.8	0.90(0.01)
63.96224	0.98(.01)	63.96346	0.96(.01)	63.96346	1.05(.01)
146.1	1.08(0.10)	146.1	1.00(0.04)	146.3	0.93(-0.12)
64.06030	1.10(.01)	64.06239	1.17(.01)	64.06232	1.15(.01)
146.1	1.18(0.08)	146.3	1.14(-0.03)	146.2	1.10(-0.05)
64.17686	1.06(.01)	64.17704	1.08(.01)	64.17720	0.92(.01)
146.0	1.13(0.07)	146.2	1.11(0.03)	146.3	1.08(0.16)
64.26826	0.86(.01)	64.26917	0.83(.01)	64.26933	0.83(.01)
146.0	0.93(0.07)	145.8	0.88(0.05)	146.2	0.83(0.00)
64.37077	0.79(.01)	64.37142	0.84(.01)	64.37150	0.68(.01)
146.2	0.75(-0.04)	146.2	0.70(-0.14)	146.2	0.65(-0.03)
64.47256	0.77(.01)	64.47308	0.73(.01)	64.47359	0.64(.01)
146.0	0.69(-0.08)	146.1	0.66(-0.07)	146.1	0.62(-0.02)

H = 12 km

6.7°C		29.7°C		52.4°C	
f _x [GHz] P [torr]	α _x (δα) α _M (±Δα)	f _x [GHz] P [torr]	α _x (δα) α _M (±Δα)	f _x [GHz] P [torr]	α _x (δα) α _M (±Δα)
dB/km		dB/km		dB/km	
64.57699 146.0	0.77(.01) 0.74(-0.03)	64.57701 146.1	0.77(.01) 0.73(-0.04)	64.57777 145.8	0.65(.01) 0.72(0.07)
64.69534 146.0	0.79(.01) 0.76(-0.03)	64.69653 146.1	0.71(.01) 0.77(0.06)	64.69654 145.9	0.76(.01) 0.78(0.02)
64.79402 146.2	0.58(.01) 0.63(0.05)	64.79626 146.2	0.60(.01) 0.62(0.02)	64.79654 146.1	0.65(.01) 0.61(-0.04)
64.91241 146.1	0.51(.01) 0.48(-0.03)	64.91254 146.1	0.44(.01) 0.46(0.02)	64.91275 146.3	0.48(.01) 0.44(-0.04)
65.00481 146.1	0.46(.01) 0.43(-0.03)	65.00565 146.1	0.43(.01) 0.42(-0.01)	65.00593 146.2	0.48(.01) 0.41(-0.07)
65.10854 146.1	0.48(.00) 0.45(-0.03)	65.10920 146.2	0.51(.00) 0.46(-0.05)	65.10928 146.2	0.47(.01) 0.46(-0.01)
65.21149 146.0	0.56(.01) 0.48(-0.08)	65.21202 146.1	0.49(.00) 0.50(0.01)	65.21255 146.1	0.46(.01) 0.52(0.06)
65.31712 146.0	0.40(.00) 0.40(0.00)	65.31715 146.1	0.43(.00) 0.42(-0.01)	65.31788 146.1	0.39(.01) 0.42(0.03)
65.42842 146.0	0.32(.01) 0.31(-0.01)	65.42963 146.1	0.29(.01) 0.30(0.01)	65.42963 145.9	0.35(.01) 0.30(-0.05)
65.52821 146.2	0.30(.01) 0.26(-0.04)	65.53048 146.2	0.24(.01) 0.26(0.02)	65.53075 146.2	0.33(.01) 0.26(-0.07)
65.64796 146.0	0.35(.01) 0.27(-0.08)	65.64810 146.1	0.28(.01) 0.28(0.00)	65.64830 146.2	0.30(.01) 0.29(-0.01)
65.74140 146.1	0.25(.01) 0.28(0.03)	65.74227 146.1	0.30(.00) 0.30(0.00)	65.74254 146.2	0.27(.01) 0.32(0.05)
65.84631 146.1	0.24(.01) 0.24(0.00)	65.84698 146.2	0.23(.01) 0.26(0.03)	65.84707 146.2	0.27(.01) 0.27(0.00)
65.95044 146.0	0.18(.01) 0.19(0.01)	65.95097 146.1	0.11(.01) 0.19(0.08)	65.95152 146.1	0.19(.01) 0.19(0.00)
66.05726 146.0	0.08(.01) 0.16(0.08)	66.05729 146.2	0.10(.01) 0.16(0.06)	66.05803 146.2	0.11(.01) 0.16(0.05)
66.16150 146.0	0.16(.00) 0.16(0.00)	66.16273 146.1	0.20(.01) 0.16(-0.04)	66.16273 145.9	0.12(.01) 0.17(0.05)
66.26241 146.2	0.19(.01) 0.16(-0.03)	66.26472 146.2	0.09(.01) 0.18(0.09)	66.26499 146.1	0.17(.01) 0.19(0.02)

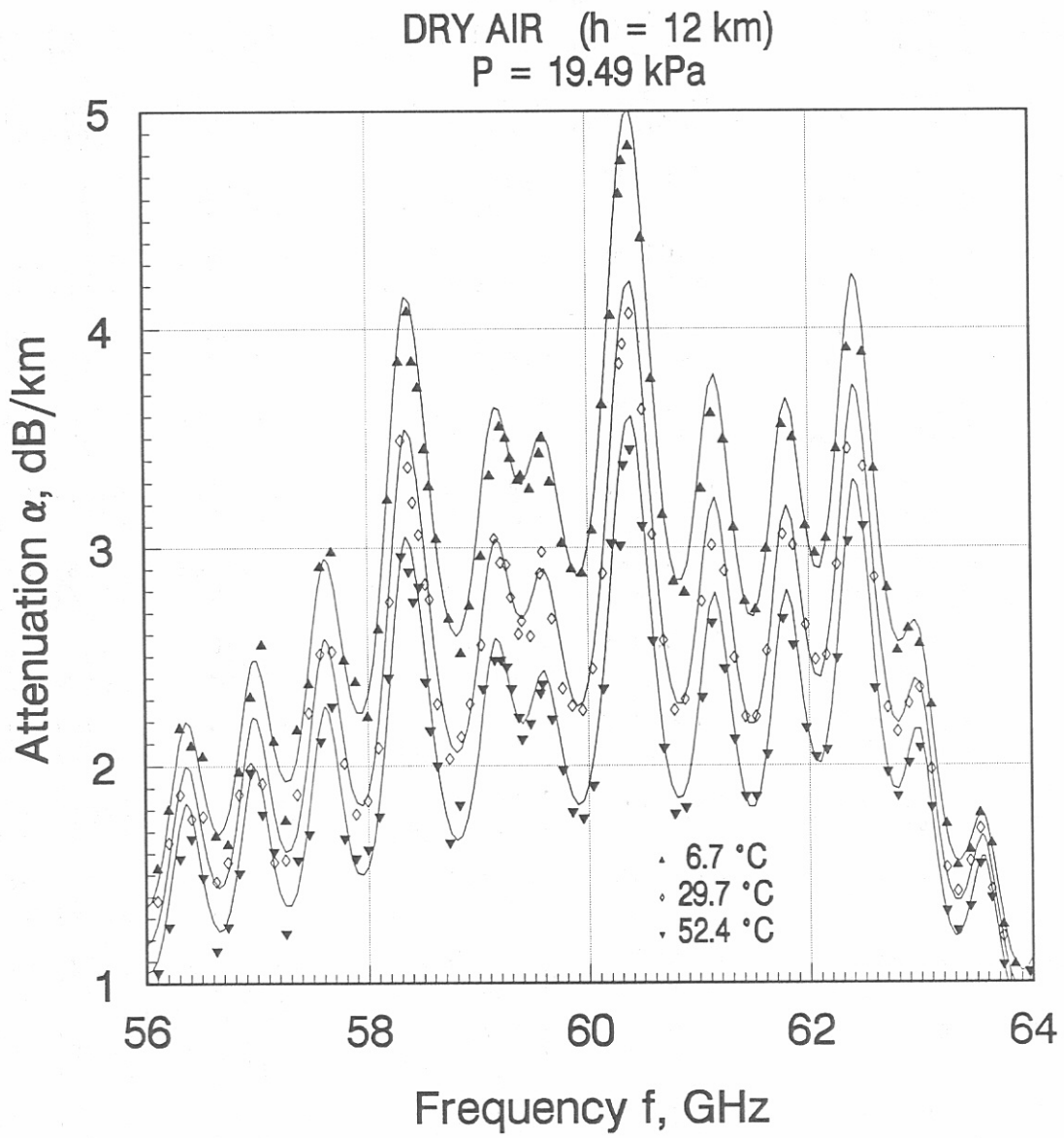


Figure A-7a. Predicted, and measured attenuation rates of dry air, α_M and α_x , at H = 12 km (see G.) for frequencies between 56 and 64 GHz.

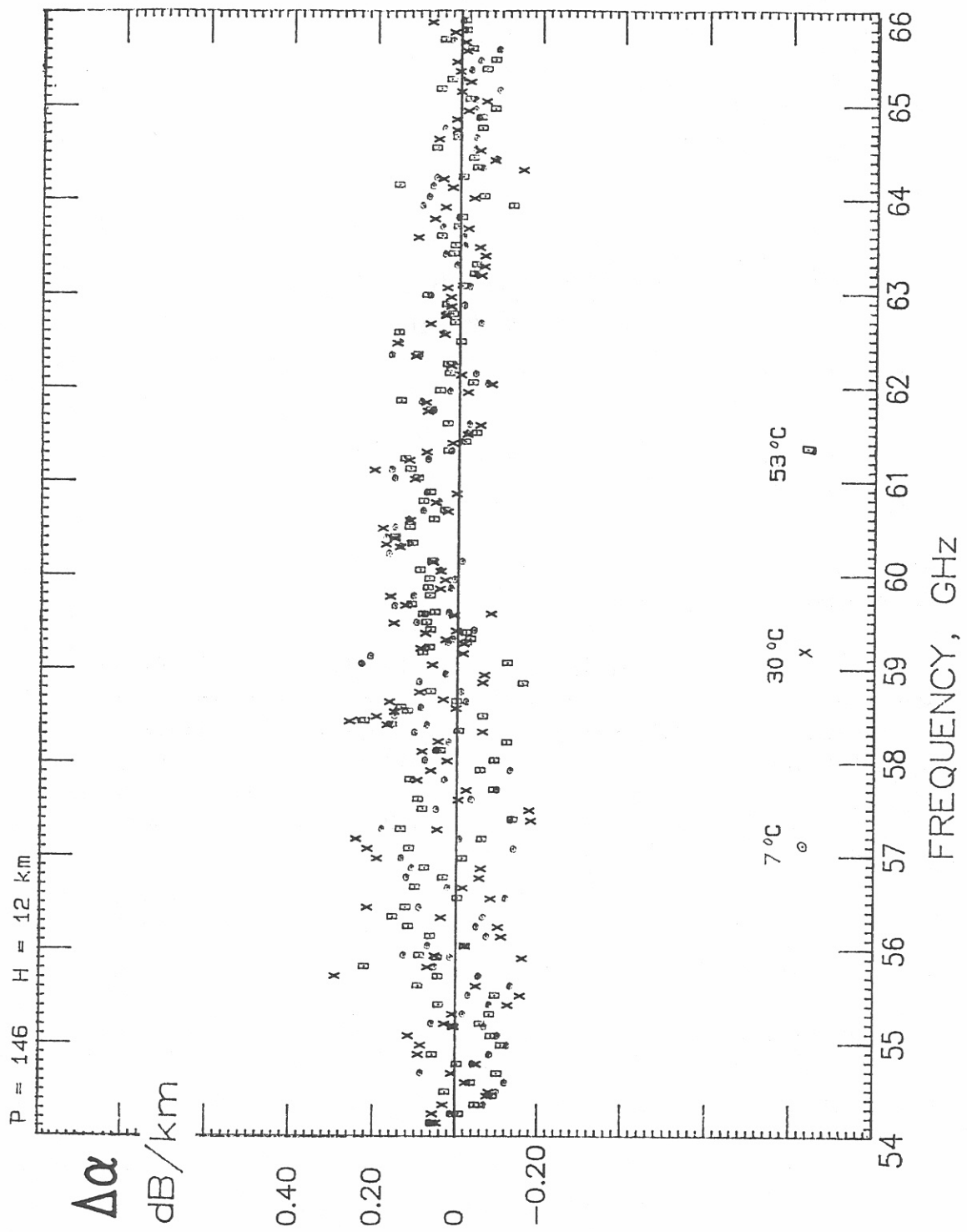


Figure A-7b. Differences $\Delta\alpha = \alpha_M - \alpha_x$ between predicted and measured attenuation for the results listed under G.