

K.

H = 3 km

Statistics Summary:

T	[°C]		6.70(24)	29.70(34)	52.40(08)
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P	[torr] [kPa]		525.80(29)	525.90(19) 70.110	525.90(34)
$\sigma_x(\Delta\alpha)$	[dB/km]		0.237	0.254	0.286

H = 3.0 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	
53.88563	1.05(.03)	53.88635	1.06(.03)	53.88699	0.95(.03)
526.0	1.21(0.16)	525.6	1.12(0.06)	526.2	1.05(0.10)
53.98437	1.32(.02)	53.98505	1.13(.03)	53.98571	1.28(.03)
525.3	1.30(-0.02)	526.2	1.20(0.07)	525.3	1.13(-0.15)
54.08293	1.44(.02)	54.08369	1.29(.02)	54.08427	1.30(.03)
526.1	1.40(-0.04)	526.2	1.30(0.01)	525.8	1.22(-0.08)
54.18166	1.64(.02)	54.18262	1.46(.02)	54.18296	1.14(.04)
526.0	1.51(-0.13)	525.5	1.40(-0.06)	526.2	1.31(0.17)
54.28028	1.69(.02)	54.28096	1.51(.02)	54.28160	1.55(.04)
526.1	1.62(-0.07)	526.1	1.50(-0.01)	525.8	1.41(-0.14)
54.37769	1.78(.02)	54.37840	1.57(.03)	54.38028	1.65(.03)
525.6	1.74(-0.04)	525.7	1.61(0.04)	525.7	1.51(-0.14)
54.41922	1.96(.03)	54.42085	1.56(.03)	54.42244	1.37(.03)
525.8	1.79(-0.17)	526.1	1.66(0.10)	526.1	1.56(0.19)
54.52033	2.23(.02)	54.52209	1.93(.03)	54.52271	1.80(.03)
525.5	1.93(-0.30)	526.1	1.79(-0.14)	526.5	1.67(-0.13)
54.62125	2.01(.02)	54.62199	2.07(.03)	54.62263	1.83(.03)
526.0	2.07(0.06)	525.6	1.92(-0.15)	526.2	1.79(-0.04)
54.72134	2.25(.02)	54.72203	1.99(.03)	54.72271	2.04(.03)
525.3	2.23(-0.02)	526.2	2.05(0.06)	525.4	1.91(-0.13)
54.82126	2.44(.03)	54.82203	2.20(.03)	54.82262	1.84(.05)
526.1	2.39(-0.05)	526.2	2.20(0.00)	525.8	2.04(0.20)
54.92134	2.50(.03)	54.92232	2.25(.04)	54.92266	2.32(.04)
526.0	2.56(0.06)	525.5	2.35(0.10)	526.3	2.18(-0.14)
55.02130	2.67(.04)	55.02199	2.60(.03)	55.02264	2.40(.05)
526.1	2.74(0.07)	526.0	2.51(-0.09)	525.9	2.32(-0.08)
55.12004	3.18(.02)	55.12088	2.56(.04)	55.12268	2.34(.05)
525.6	2.93(-0.25)	525.5	2.68(0.12)	525.7	2.47(0.13)
55.15213	3.12(.05)	55.15377	2.56(.03)	55.15539	2.66(.04)
525.9	2.99(-0.13)	526.0	2.74(0.18)	526.1	2.53(-0.13)
55.25460	3.65(.05)	55.25638	2.85(.04)	55.25700	2.96(.06)
525.5	3.20(-0.45)	526.0	2.92(0.07)	526.4	2.69(-0.27)
55.35688	3.35(.04)	55.35763	3.39(.04)	55.35829	2.80(.05)
526.0	3.42(0.07)	525.6	3.11(-0.28)	526.2	2.85(0.05)
55.45832	3.87(.03)	55.45903	3.31(.04)	55.45971	3.33(.06)
525.3	3.64(-0.23)	526.2	3.30(-0.01)	525.4	3.02(-0.31)
55.55958	4.04(.04)	55.56037	3.42(.04)	55.56096	3.31(.04)
526.1	3.87(-0.17)	526.1	3.51(0.09)	525.8	3.20(-0.11)

H = 3.0 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	
55.66101 526.0	4.26(.04) 4.12(-0.14)	55.66201 525.6	3.70(.04) 3.72(0.02)	55.66236 526.3	3.51(.04) 3.38(-0.13)
55.76233 526.1	4.48(.04) 4.37(-0.11)	55.76303 526.2	4.04(.05) 3.93(-0.11)	55.76370 525.8	3.39(.04) 3.57(0.18)
55.86240 525.6	4.77(.04) 4.62(-0.15)	55.86314 525.7	4.15(.03) 4.15(0.00)	55.86508 525.7	3.82(.04) 3.76(-0.06)
55.88503 525.8	4.92(.04) 4.68(-0.24)	55.88670 526.0	4.31(.04) 4.20(-0.11)	55.88834 526.0	3.97(.05) 3.80(-0.17)
55.98886 525.5	5.05(.04) 4.94(-0.11)	55.99067 526.0	4.61(.03) 4.43(-0.18)	55.99131 525.6	4.05(.05) 3.99(-0.06)
56.09250 526.1	5.24(.05) 5.21(-0.03)	56.09327 525.6	4.84(.05) 4.65(-0.19)	56.09394 526.2	4.28(.04) 4.18(-0.10)
56.19529 525.3	5.92(.04) 5.48(-0.44)	56.19601 526.2	5.03(.04) 4.88(-0.15)	56.19671 526.0	4.34(.04) 4.38(0.04)
56.29791 526.1	5.83(.05) 5.75(-0.08)	56.29870 526.1	5.14(.04) 5.11(-0.03)	56.29930 525.8	4.62(.05) 4.57(-0.05)
56.40070 526.0	6.50(.05) 6.01(-0.49)	56.40171 525.6	5.14(.06) 5.33(0.19)	56.40206 526.3	4.44(.05) 4.75(0.31)
56.50337 526.1	6.36(.05) 6.27(-0.09)	56.50407 525.9	5.68(.06) 5.54(-0.14)	56.50475 525.8	4.80(.05) 4.93(0.13)
56.61793 525.8	6.61(.03) 6.56(-0.05)	56.61962 526.1	5.80(.02) 5.77(-0.03)	56.62128 526.0	5.17(.04) 5.12(-0.05)
56.72313 525.5	7.15(.05) 6.81(-0.34)	56.72497 526.0	6.01(.04) 5.98(-0.03)	56.72562 525.6	5.24(.06) 5.29(0.05)
56.82814 525.9	6.95(.06) 7.07(0.12)	56.82891 525.6	6.34(.05) 6.18(-0.16)	56.82959 526.3	5.33(.08) 5.45(0.12)
56.93229 525.3	7.39(.07) 7.31(-0.08)	56.93301 526.2	6.16(.05) 6.38(0.22)	56.93372 526.0	5.52(.06) 5.61(0.09)
57.03625 526.1	7.54(.07) 7.55(0.01)	57.03706 526.1	6.38(.05) 6.57(0.19)	57.03767 525.8	5.77(.05) 5.76(-0.01)
57.14038 526.0	7.73(.05) 7.79(0.06)	57.14140 525.6	6.67(.06) 6.75(0.08)	57.14177 526.3	6.08(.07) 5.91(-0.17)
57.24440 526.1	7.87(.06) 8.01(0.14)	57.24512 526.0	6.76(.05) 6.93(0.17)	57.24581 525.7	5.57(.05) 6.04(0.47)
57.35085 525.8	8.55(.08) 8.24(-0.31)	57.34802 525.6	7.13(.06) 7.10(-0.03)	57.35424 526.0	6.11(.08) 6.18(0.07)
57.45742 525.5	8.35(.07) 8.47(0.12)	57.45927 526.1	7.03(.06) 7.28(0.25)	57.45994 526.8	6.49(.09) 6.32(-0.17)

H = 3.0 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	
57.56379	9.09(.07)	57.56458	7.38(.07)	57.56526	6.83(.08)
526.0	8.69(-0.40)	525.6	7.45(0.07)	526.3	6.45(-0.38)
57.66929	8.95(.08)	57.67003	7.35(.07)	57.67075	6.13(.08)
525.3	8.90(-0.05)	526.1	7.61(0.26)	525.3	6.57(0.44)
57.77461	9.12(.10)	57.77542	7.56(.08)	57.77605	6.60(.07)
526.1	9.11(-0.01)	526.2	7.77(0.21)	525.8	6.69(0.09)
57.88010	9.19(.08)	57.88113	7.69(.05)	57.88151	6.35(.04)
526.0	9.32(0.13)	525.6	7.93(0.24)	526.3	6.81(0.46)
57.98547	9.42(.06)	57.98620	8.12(.05)	57.98690	6.53(.08)
526.1	9.53(0.11)	526.0	8.09(-0.03)	525.7	6.94(0.41)
58.08885	9.81(.05)	58.08553	8.27(.05)	58.09118	6.81(.04)
526.0	9.73(-0.08)	526.1	8.24(-0.03)	526.1	7.06(0.25)
58.17787	9.68(.06)	58.19360	8.29(.07)	58.18106	6.83(.02)
526.0	9.90(0.22)	526.0	8.41(0.12)	526.2	7.17(0.34)
58.28396	9.80(.05)	58.30023	8.29(.06)	58.30092	6.76(.07)
525.9	10.09(0.29)	525.6	8.55(0.26)	526.3	7.31(0.55)
58.36714	10.12(.05)	58.36858	8.32(.03)	58.36940	7.09(.04)
525.9	10.22(0.10)	526.2	8.63(0.31)	526.2	7.37(0.28)
58.40628	9.71(.06)	58.40704	8.47(.05)	58.40777	6.90(.07)
525.3	10.28(0.57)	526.2	8.68(0.21)	525.2	7.40(0.50)
58.46028	10.25(.05)	58.46132	8.49(.04)	58.46223	7.20(.04)
526.0	10.36(0.11)	525.9	8.73(0.24)	526.2	7.44(0.24)
58.51294	10.04(.06)	58.51379	8.62(.06)	58.51440	6.98(.05)
526.1	10.42(0.38)	526.2	8.77(0.15)	525.8	7.47(0.49)
58.55280	10.10(.04)	58.55382	8.60(.03)	58.55494	6.92(.03)
525.9	10.47(0.37)	526.0	8.80(0.20)	526.2	7.49(0.57)
58.61979	10.50(.05)	58.62083	8.55(.05)	58.62120	7.06(.06)
526.0	10.54(0.04)	525.5	8.85(0.30)	526.4	7.51(0.45)
58.72650	10.41(.07)	58.72724	8.64(.04)	58.72794	6.90(.05)
526.1	10.64(0.23)	525.9	8.91(0.27)	525.8	7.55(0.65)
58.83189	10.54(.04)	58.83279	8.67(.04)	58.82016	7.07(.04)
525.8	10.73(0.19)	525.6	8.97(0.30)	526.0	7.58(0.51)
58.91196	10.58(.03)	58.91458	9.00(.03)		
526.0	10.80(0.22)	525.9	9.02(0.02)		
59.01941	10.28(.05)	59.02037	8.94(.02)	59.03655	7.59(.06)
525.9	10.89(0.61)	526.1	9.08(0.14)	526.3	7.67(0.08)
59.10364	10.07(.03)	59.14400	8.79(.05)	59.14473	7.27(.05)
525.9	10.96(0.89)	526.2	9.16(0.37)	525.2	7.72(0.45)

H = 3.0 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	
59.19795	10.59(.03)	59.19901	8.96(.03)	59.19992	7.50(.03)
525.9	11.05(0.46)	525.9	9.20(0.24)	526.2	7.75(0.25)
59.25125	10.87(.05)	59.25209	8.73(.03)	59.25273	7.26(.05)
526.1	11.09(0.22)	526.1	9.23(0.50)	525.8	7.77(0.51)
59.29165	11.03(.03)	59.29269	8.85(.02)	59.29380	7.13(.02)
525.9	11.13(0.10)	526.0	9.26(0.41)	526.2	7.79(0.66)
59.35943	10.99(.04)	59.36049	8.80(.03)	59.36087	7.17(.04)
526.0	11.19(0.20)	525.5	9.30(0.50)	526.3	7.83(0.66)
59.38744	10.87(.02)	59.38824	8.92(.02)	59.38955	7.20(.01)
526.0	11.22(0.35)	526.0	9.32(0.40)	526.2	7.84(0.64)
59.46749	10.87(.04)	59.46824	9.02(.03)	59.46896	7.40(.05)
526.1	11.29(0.42)	525.9	9.38(0.36)	525.8	7.89(0.49)
59.55478	10.95(.03)	59.55669	8.94(.01)	59.55717	7.34(.02)
525.8	11.38(0.43)	526.1	9.45(0.51)	526.1	7.94(0.60)
59.57422	11.28(.06)	59.57501	9.14(.03)	59.57707	7.33(.04)
525.8	11.40(0.12)	525.6	9.47(0.33)	525.7	7.96(0.63)
59.64605	10.87(.03)	59.66213	9.28(.05)	59.66278	7.33(.07)
525.9	11.48(0.61)	526.0	9.55(0.27)	525.5	8.02(0.69)
59.75484	11.36(.02)	59.75581	9.37(.02)	59.75671	7.68(.02)
525.8	11.60(0.24)	526.2	9.64(0.27)	526.1	8.10(0.42)
59.84013	11.26(.02)	59.84159	9.42(.02)	59.84245	7.68(.02)
525.9	11.71(0.45)	526.2	9.73(0.31)	526.2	8.17(0.49)
59.93562	11.65(.02)	59.93670	9.40(.02)	59.93762	7.83(.01)
525.9	11.82(0.17)	525.8	9.83(0.43)	526.1	8.27(0.44)
60.03049	11.51(.03)	60.03154	9.47(.01)	60.03267	7.62(.01)
525.9	11.93(0.42)	525.9	9.93(0.46)	526.1	8.37(0.75)
60.12748	12.19(.03)	60.12829	9.54(.02)	60.12962	8.01(.02)
526.0	12.04(-0.15)	526.0	10.03(0.49)	526.2	8.46(0.45)
60.20853	11.53(.12)			60.20999	7.67(.12)
526.1	12.11(0.58)			525.8	8.53(0.86)
60.28778	11.81(.02)	60.28971	9.72(.02)	60.29018	8.13(.02)
525.8	12.16(0.35)	526.1	10.16(0.44)	526.1	8.59(0.46)
60.31657	11.41(.13)	60.31750	9.68(.09)	60.31945	8.19(.13)
525.8	12.18(0.77)	525.6	10.18(0.50)	525.7	8.61(0.42)
60.38017	11.95(.03)	60.38286	9.75(.01)	60.38350	7.75(.01)
525.9	12.20(0.25)	526.0	10.21(0.46)	526.1	8.64(0.89)
60.49029	11.69(.02)	60.49128	9.74(.01)	60.49219	7.96(.01)
525.8	12.21(0.52)	526.1	10.22(0.48)	526.1	8.65(0.69)

H = 3.0 km

6.7°C		29.7°C		52.4°C	
f _x [GHz]	α _x (δα)	f _x [GHz]	α _x (δα)	f _x [GHz]	α _x (δα)
P [torr]	α _M (±Δα)	P [torr]	α _M (±Δα)	P [torr]	α _M (±Δα)
dB/km		dB/km		dB/km	
60.57664	12.06(.02)	60.57812	9.77(.01)	60.57897	7.83(.01)
525.9	12.20(0.14)	526.2	10.21(0.44)	526.2	8.64(0.81)
60.67330	11.85(.02)	60.67439	9.83(.01)	60.67531	8.17(.01)
525.9	12.15(0.30)	525.8	10.17(0.34)	526.1	8.61(0.44)
60.76934	11.76(.02)	60.77040	9.68(.01)	60.77154	7.85(.01)
525.8	12.10(0.34)	525.9	10.13(0.45)	526.1	8.58(0.73)
60.86752	11.74(.01)	60.86834	9.71(.01)	60.86968	7.99(.01)
526.0	12.03(0.29)	526.0	10.08(0.37)	526.2	8.55(0.56)
61.02076	11.51(.01)	61.02271	9.76(.01)	61.02320	8.06(.01)
525.7	11.92(0.41)	526.1	10.01(0.25)	526.1	8.50(0.44)
61.11425	11.68(.03)	61.11699	9.61(.03)	61.11761	8.12(.03)
526.1	11.85(0.17)	525.9	9.96(0.35)	526.3	8.47(0.35)
61.22574	11.64(.02)	61.22673	9.63(.02)	61.22765	8.08(.01)
525.8	11.76(0.12)	526.1	9.91(0.28)	526.1	8.43(0.35)
61.31313	11.53(.01)	61.31463	9.47(.01)	61.31548	8.15(.02)
525.9	11.69(0.16)	526.1	9.86(0.39)	526.2	8.40(0.25)
61.41096	11.46(.01)	61.41208	9.45(.02)	61.41300	8.04(.01)
525.9	11.60(0.14)	526.0	9.80(0.35)	526.2	8.37(0.33)
61.50817	11.38(.02)	61.50925	9.45(.02)	61.51037	7.95(.01)
525.8	11.52(0.14)	526.0	9.75(0.30)	526.2	8.35(0.40)
61.60757	11.32(.01)	61.60839	9.35(.03)	61.60974	7.93(.02)
525.9	11.43(0.11)	526.1	9.70(0.35)	526.2	8.32(0.39)
61.75374	11.33(.01)	61.75569	9.60(.02)	61.75618	8.11(.02)
526.1	11.29(-0.04)	526.1	9.62(0.02)	526.3	8.29(0.18)
61.84835	11.33(.01)	61.85114	9.33(.01)	61.85176	8.01(.01)
526.0	11.18(-0.15)	525.9	9.56(0.23)	526.3	8.25(0.24)
61.96115	11.04(.02)	61.96220	9.48(.01)	61.96312	7.93(.01)
525.9	11.03(-0.01)	526.0	9.46(-0.02)	526.1	8.19(0.26)
62.04960	11.09(.02)	62.05116	9.37(.01)	62.05201	7.88(.01)
526.2	10.90(-0.19)	525.9	9.37(0.00)	526.2	8.13(0.25)
62.14866	10.78(.01)	62.14977	9.12(.01)	62.15071	7.83(.01)
525.9	10.72(-0.06)	525.9	9.25(0.13)	526.1	8.05(0.22)
62.24703	10.52(.02)	62.24811	9.33(.02)	62.24925	7.67(.01)
525.8	10.52(0.00)	525.9	9.10(-0.23)	526.2	7.94(0.27)
62.34762	10.10(.01)	62.34844	8.84(.01)	62.34982	7.58(.01)
525.9	10.28(0.18)	526.0	8.92(0.08)	526.1	7.81(0.23)
62.48672	9.67(.01)	62.48870	8.74(.02)	62.48919	7.58(.01)
526.1	9.89(0.22)	526.2	8.61(-0.13)	526.3	7.56(-0.02)

H = 3.0 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	
62.58245	9.60(.01)	62.58527	8.35(.01)	62.58591	6.99(.01)
526.0	9.59(-0.01)	525.9	8.36(0.01)	526.3	7.35(0.36)
62.69660	9.24(.02)	62.69766	7.66(.01)	62.69860	6.95(.01)
525.9	9.19(-0.05)	526.0	8.03(0.37)	526.1	7.08(0.13)
62.78610	8.85(.01)	62.78767	7.52(.01)	62.78854	6.75(.01)
526.2	8.86(0.01)	525.9	7.75(0.23)	526.1	6.85(0.10)
62.88633	8.47(.01)	62.88747	7.40(.01)	62.88840	6.70(.01)
525.9	8.48(0.01)	525.9	7.44(0.04)	526.1	6.58(-0.12)
62.98588	8.17(.01)	62.98698	7.08(.01)	62.98812	6.25(.01)
525.8	8.09(-0.08)	525.9	7.11(0.03)	526.1	6.30(0.05)
63.08766	7.84(.01)	63.08849	6.84(.01)	63.08989	6.08(.01)
525.9	7.69(-0.15)	526.0	6.77(-0.07)	526.1	6.02(-0.06)
63.21970	7.07(.01)	63.22170	6.46(.01)	63.22220	5.65(.01)
526.1	7.18(0.11)	526.2	6.34(-0.12)	526.3	5.65(0.00)
63.31655	6.66(.01)	63.31940	6.03(.01)	63.32005	5.49(.01)
526.1	6.81(0.15)	525.9	6.03(0.00)	526.3	5.39(-0.10)
63.43204	6.15(.01)	63.43312	5.69(.01)	63.43407	5.04(.01)
525.9	6.39(0.24)	526.0	5.68(-0.01)	526.1	5.09(0.05)
63.52259	6.10(.01)	63.52419	5.49(.01)	63.52506	4.74(.01)
526.3	6.08(-0.02)	525.9	5.41(-0.08)	526.2	4.87(0.13)
63.62400	5.75(.01)	63.62515	5.00(.01)	63.62610	4.62(.01)
525.9	5.73(-0.02)	525.9	5.12(0.12)	526.1	4.62(0.00)
63.72472	5.25(.01)	63.72583	4.83(.01)	63.72699	4.33(.01)
525.8	5.41(0.16)	525.9	4.85(0.02)	526.2	4.38(0.05)
63.82770	4.87(.01)	63.82854	4.37(.01)	63.82995	4.21(.01)
525.9	5.09(0.22)	526.0	4.57(0.20)	526.1	4.15(-0.06)
63.95267	4.42(.01)	63.95470	4.21(.01)	63.95520	3.95(.01)
526.1	4.72(0.30)	526.2	4.25(0.04)	526.3	3.88(-0.07)
64.05064	4.20(.01)	64.05354	4.14(.01)	64.05419	3.77(.01)
526.1	4.45(0.25)	525.9	4.02(-0.12)	526.3	3.67(-0.10)
64.16747	3.96(.01)	64.16857	3.59(.01)	64.16949	3.52(.02)
525.9	4.13(0.17)	526.1	3.75(0.16)	526.3	3.44(-0.08)
64.25908	3.84(.01)	64.26069	3.32(.01)	64.26157	3.35(.01)
526.3	3.90(0.06)	525.9	3.55(0.23)	526.1	3.26(-0.09)
64.36166	3.73(.01)	64.36279	3.48(.01)	64.36378	3.19(.01)
526.0	3.65(-0.08)	526.0	3.33(-0.15)	526.2	3.07(-0.12)
64.46350	3.45(.02)	64.46465	3.32(.01)	64.46584	3.04(.01)
525.9	3.42(-0.03)	526.0	3.12(-0.20)	526.1	2.89(-0.15)

H = 3.0 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	
64.56770	3.16(.01)	64.56856	3.23(.01)	64.57001	2.64(.01)
526.1	3.19(0.03)	526.0	2.92(-0.31)	526.1	2.71(0.07)
64.68603	2.97(.01)	64.68767	2.75(.01)	64.68816	2.62(.01)
525.8	2.95(-0.02)	525.8	2.71(-0.04)	526.0	2.52(-0.10)
64.78455	2.70(.01)	64.78763	2.62(.01)	64.78827	2.57(.01)
525.8	2.76(0.06)	526.1	2.53(-0.09)	526.3	2.36(-0.21)
64.90290	2.42(.01)	64.90398	2.39(.01)	64.90495	2.31(.01)
526.0	2.54(0.12)	526.0	2.34(-0.05)	526.2	2.19(-0.12)
64.99561	2.37(.01)	64.99718	2.19(.01)	64.99808	2.16(.01)
525.9	2.38(0.01)	526.0	2.20(0.01)	526.1	2.05(-0.11)
65.09933	2.07(.00)	65.10046	1.94(.01)	65.10146	2.03(.01)
526.0	2.22(0.15)	525.9	2.05(0.11)	526.2	1.92(-0.11)
65.20234	2.25(.01)	65.20351	1.75(.01)	65.20470	1.76(.01)
525.9	2.06(-0.19)	525.9	1.90(0.15)	526.1	1.79(0.03)
65.30773	1.75(.01)	65.30860	1.72(.00)	65.31003	1.54(.01)
526.0	1.91(0.16)	526.0	1.77(0.05)	526.2	1.66(0.12)
65.41899	1.72(.01)	65.42066	1.75(.01)	65.42115	1.77(.01)
525.8	1.77(0.05)	525.8	1.63(-0.12)	526.0	1.53(-0.24)
65.51863	1.70(.01)	65.52177	1.36(.01)	65.52240	1.53(.01)
525.8	1.64(-0.06)	526.0	1.51(0.15)	526.3	1.42(-0.11)
65.63834	1.47(.01)	65.63943	1.35(.01)	65.64041	1.41(.01)
526.0	1.51(0.04)	526.0	1.39(0.04)	526.1	1.30(-0.11)
65.73209	1.33(.01)	65.73369	1.14(.01)	65.73460	0.96(.01)
525.8	1.41(0.08)	526.0	1.29(0.15)	526.1	1.22(0.26)
65.83699	1.02(.01)	65.83816	1.08(.01)	65.83916	1.03(.01)
525.9	1.31(0.29)	525.9	1.20(0.12)	526.2	1.13(0.10)
65.94117	1.07(.01)	65.94236	1.00(.00)	65.94356	0.72(.01)
525.8	1.21(0.14)	525.9	1.11(0.11)	526.1	1.04(0.32)
66.04777	0.75(.00)	66.04865	0.93(.01)	66.05009	0.73(.01)
525.9	1.12(0.37)	525.9	1.02(0.09)	526.3	0.96(0.23)
66.15196	0.94(.01)	66.15365	0.98(.01)	66.15415	0.65(.01)
525.8	1.05(0.11)	525.8	0.95(-0.03)	526.0	0.89(0.24)
66.25272	0.88(.01)	66.25589	0.65(.01)	66.25654	0.75(.01)
525.8	0.97(0.09)	526.0	0.88(0.23)	526.3	0.82(0.07)

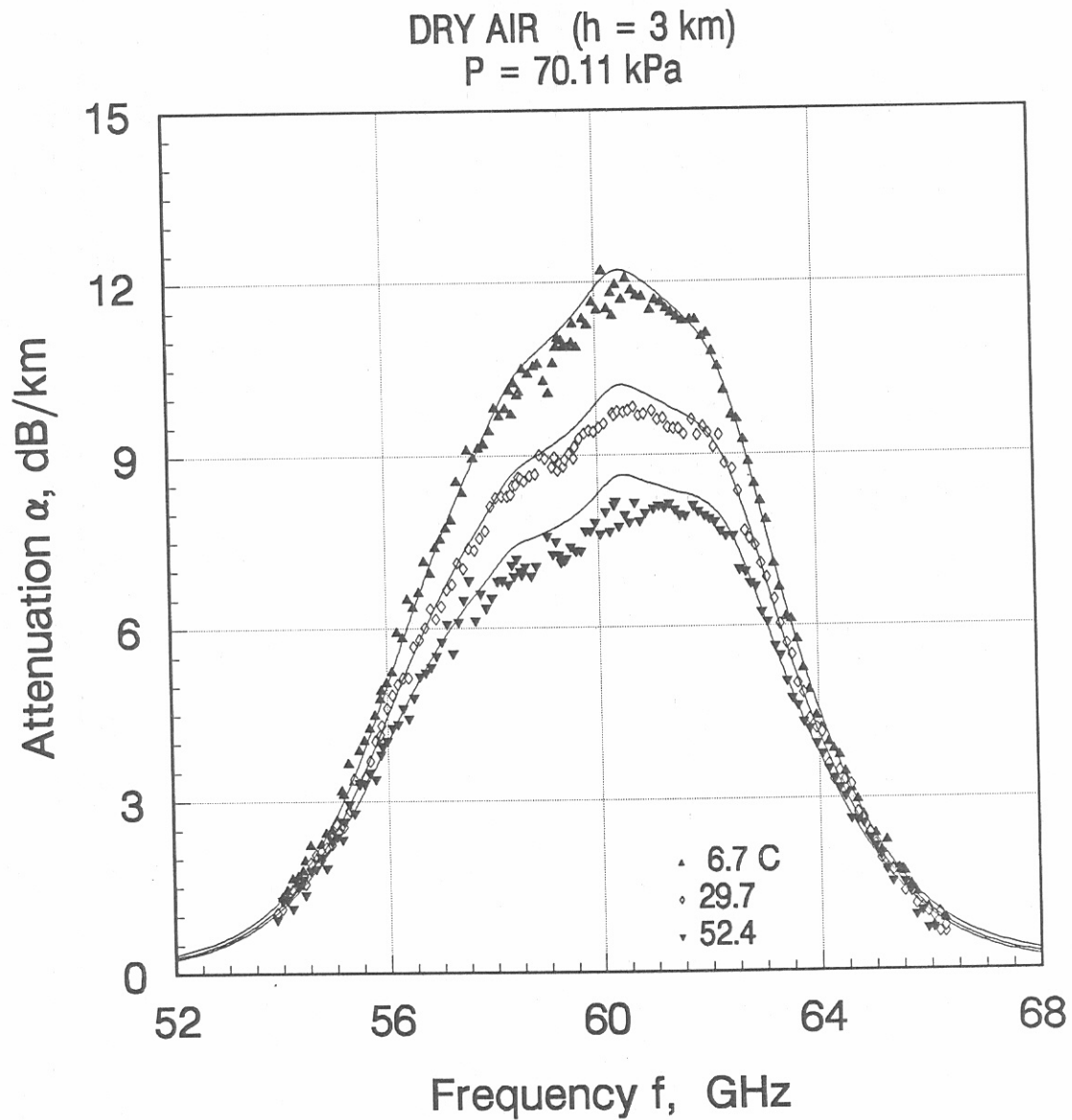


Figure A-10a. Predicted and measured attenuation rates of dry air, α_M and α_x , at $H = 3$ km (see K.) for frequencies between 52 and 68 GHz.

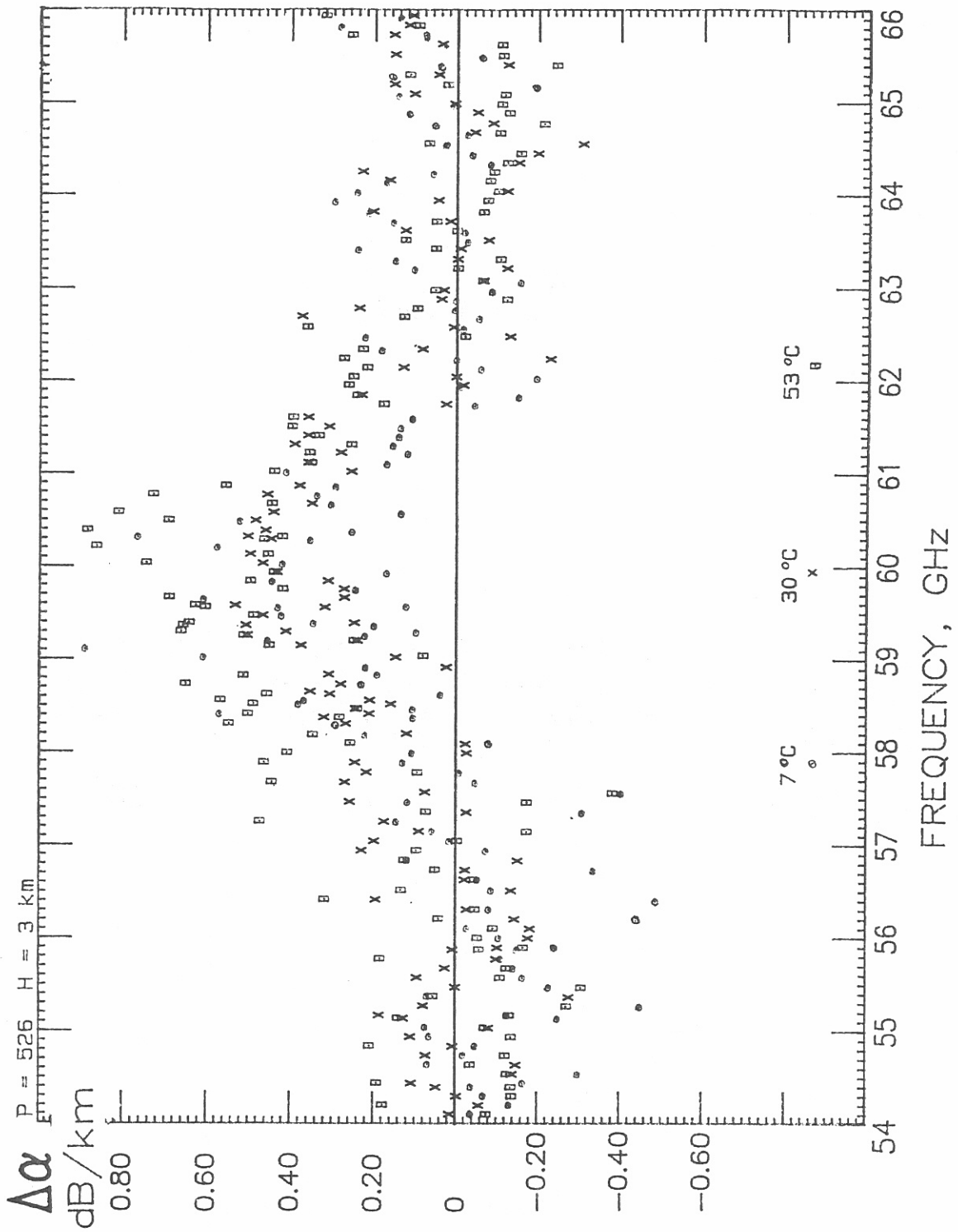


Figure A-10b. Differences $\Delta\alpha = \alpha_M - \alpha_x$ between predicted and measured attenuation for the results listed under K.