

High resolution spectroscopy of methyltrioxorhenium: towards the observation of parity violation in chiral molecules

C. Stoeffler et al.

Data associated with Table I

1) Assigned Microwave Lines and Fitted Molecular Parameters of the Ground State of $\text{CH}_3^{187}\text{ReO}_3$ (MHz)

Methyl rhenium trioxide CH3(187)ReO3 T. Huet Thu Aug 12 18:15:56 2010

		EXP.FREQ.	-	CALC.FREQ.	-	DIFF.	-	EXP.ERR.	-	EST.ERR.
1:	1 0 2 0 0 3	6834.21080		6834.21287		-0.00207		0.00100		0.00000
2:	1 0 4 0 0 3	6898.66370		6898.66310		0.00060		0.00100		0.00000
3:	1 0 3 0 0 3	7049.07550		7049.07403		0.00147		0.00100		0.00000
4:	2 0 2 1 0 3	13702.05500		13702.05750		-0.00250		0.00100		0.00000
5:	2 1 1 1 -1 2	13746.94030		13746.93695		0.00335		0.00100		0.00000
6:	2 -1 1 1 1 2	13746.94030		13746.93695		0.00335		0.00100		0.00000
7:	2 1 2 1 -1 2	13794.04740		13794.04830		-0.00090		0.00100		0.00000
8:	2 -1 2 1 1 2	13794.04740		13794.04830		-0.00090		0.00100		0.00000
9:	2 0 3 1 0 3	13805.30630		13805.30852		-0.00222		0.00100		0.00000
10:	2 0 1 1 0 2	13824.74830		13824.74408		0.00422		0.00100		0.00000
11:	2 1 5 1 -1 4	13824.90000		13824.89762		0.00238		0.00100		0.00000
12:	2 -1 5 1 1 4	13824.90000		13824.89762		0.00238		0.00100		0.00000
13:	2 0 4 1 0 3	13840.31860		13840.31786		0.00074		0.00100		0.00000
14:	2 1 3 1 -1 2	13844.51230		13844.51692		-0.00462		0.00100		0.00000
15:	2 -1 3 1 1 2	13844.51230		13844.51692		-0.00462		0.00100		0.00000
16:	2 0 5 1 0 4	13852.77410		13852.77155		0.00255		0.00100		0.00000
17:	2 1 3 1 -1 4	13876.13530		13876.13524		0.00006		0.00100		0.00000
18:	2 1 4 1 -1 4	13894.61460		13894.62118		-0.00658		0.00100		0.00000
19:	2 -1 4 1 1 4	13894.61460		13894.62118		-0.00658		0.00100		0.00000
20:	2 1 2 1 -1 3	13900.71520		13900.71040		0.00480		0.00100		0.00000
21:	2 0 2 1 0 2	13916.91920		13916.91866		0.00054		0.00100		0.00000
22:	2 1 3 1 -1 3	13951.18010		13951.17902		0.00108		0.00100		0.00000
23:	2 -1 3 1 1 3	13951.18010		13951.17902		0.00108		0.00100		0.00000
24:	2 0 3 1 0 4	13955.71880		13955.71945		-0.00065		0.00100		0.00000
25:	2 1 4 1 -1 3	13969.66540		13969.66497		0.00043		0.00100		0.00000
26:	2 -1 4 1 1 3	13969.66540		13969.66497		0.00043		0.00100		0.00000
27:	2 0 4 1 0 4	13990.72890		13990.72880		0.00010		0.00100		0.00000
28:	2 0 3 1 0 2	14020.16690		14020.16968		-0.00278		0.00100		0.00000

		NEW PARAMETER (EST. ERROR)	--	CHANGE THIS ITERATION
1	10000	A 3849.810000263(0)		-0.000000000
2	20000	B 3466.96481(39)		0.00000
3	200	-DJ -0.705(50)E-03		-0.0000E-03
4	1100	-DJK -2.208(118)E-03		0.0000E-03
5	110010000	1.5eQq 1074.81007(288)		0.00000
6	10010000	-Caa 0.05222(37)		-0.00000
7	10020000	-Cbb 0.051464(92)		-0.000000

MICROWAVE AVG = -0.000000 MHz, IR AVG = 0.00000
 MICROWAVE RMS = 0.002743 MHz, IR RMS = 0.00000

2) Assigned Microwave Lines and Fitted Molecular Parameters of the Ground State of $\text{CH}_3^{185}\text{ReO}_3$ (MHz)

Methyl rhenium trioxide CH3(185)ReO3 Tue Aug 03 19:49:39 2010

		EXP.FREQ.	-	CALC.FREQ.	-	DIFF.	-	EXP.ERR.	-	EST.ERR.
1:	1 0 2 0 0 3	6828.78270		6828.78445		-0.00175		0.00100		0.00000
2:	1 0 4 0 0 3	6896.85030		6896.85022		0.00008		0.00100		0.00000
3:	1 0 3 0 0 3	7055.81220		7055.81053		0.00167		0.00100		0.00000
4:	2 0 2 1 0 3	13693.02400		13693.02337		0.00063		0.00100		0.00000
5:	2 1 1 1 -1 2	13740.49430		13740.49521		-0.00091		0.00100		0.00000
6:	2 1 2 1 -1 2	13790.33260		13790.33190		0.00070		0.00100		0.00000
7:	2 -1 2 1 1 2	13790.33260		13790.33190		0.00070		0.00100		0.00000
8:	2 0 3 1 0 3	13802.16800		13802.16801		-0.00001		0.00100		0.00000
9:	2 0 1 1 0 2	13822.65960		13822.65336		0.00624		0.00100		0.00000
10:	2 1 5 1 -1 4	13822.82130		13822.82022		0.00108		0.00100		0.00000
11:	2 -1 5 1 1 4	13822.82130		13822.82022		0.00108		0.00100		0.00000
12:	2 0 4 1 0 3	13839.08760		13839.09216		-0.00456		0.00100		0.00000

13:	2	1	3	1	-1	2	13843.59960	13843.60357	-0.00397	0.00100	0.00000
14:	2	-1	3	1	1	2	13843.59960	13843.60357	-0.00397	0.00100	0.00000
15:	2	0	5	1	0	4	13852.25860	13852.25603	0.00257	0.00100	0.00000
16:	2	1	3	1	-1	4	13877.01580	13877.01920	-0.00340	0.00100	0.00000
17:	2	1	4	1	-1	4	13896.56420	13896.56531	-0.00111	0.00100	0.00000
18:	2	-1	4	1	1	4	13896.56420	13896.56531	-0.00111	0.00100	0.00000
19:	2	1	2	1	-1	3	13903.01690	13903.01164	0.00526	0.00100	0.00000
20:	2	-1	2	1	1	3	13903.01690	13903.01164	0.00526	0.00100	0.00000
21:	2	0	2	1	0	2	13920.04980	13920.04945	0.00035	0.00100	0.00000
22:	2	1	3	1	-1	3	13956.28490	13956.28331	0.00159	0.00100	0.00000
23:	2	-1	3	1	1	3	13956.28490	13956.28331	0.00159	0.00100	0.00000
24:	2	0	3	1	0	4	13961.12340	13961.12833	-0.00493	0.00100	0.00000
25:	2	1	4	1	-1	3	13975.83020	13975.82943	0.00077	0.00100	0.00000
26:	2	-1	4	1	1	3	13975.83020	13975.82943	0.00077	0.00100	0.00000
27:	2	0	4	1	0	4	13998.05390	13998.05248	0.00142	0.00100	0.00000
28:	2	0	3	1	0	2	14029.19240	14029.19410	-0.00170	0.00100	0.00000

		NEW PARAMETER (EST. ERROR) -- CHANGE THIS ITERATION		
1	10000	A	3849.810000000(0)	0.000000000
2	20000	B	3467.04957(39)	0.00000
3	200	-DJ	-0.755(50)E-03	-0.000E-03
4	1100	-DJK	-1.971(118)E-03	-0.000E-03
5	110010000	1.5eQq	1135.77262(288)	0.00000
6	10010000	-Caa	0.05066(37)	0.00000
7	10020000	-Cbb	0.051165(92)	-0.000000

MICROWAVE AVG = -0.000000 MHz, IR AVG = 0.00000
MICROWAVE RMS = 0.002792 MHz, IR RMS = 0.00000

3) Assigned Microwave and Infrared Lines and Fitted Molecular Parameters of the Ground State and of the $\nu_{11}=1$ Vibrational State of $\text{CH}_3^{187}\text{ReO}_3$ (ζ fixed to 0)

Methyl rhenium trioxide CH3(187)ReO3 T. Huet Mon Sep 06 15:37:45 2010

J'	K'	el'	F'	J	K	el	F	EXP.FREQ.	DIFF.	EXP.ERR.
1	0	0	2	0	0	0	3	6834.21080	-0.00207	0.00100
1	0	0	4	0	0	0	3	6898.66370	0.00060	0.00100
1	0	0	3	0	0	0	3	7049.07550	0.00147	0.00100
2	0	0	2	1	0	0	3	13702.05500	-0.00250	0.00100
2	1	0	1	1	1	0	2	13746.94030	0.00335	0.00100
2	1	0	2	1	1	0	2	13794.04740	-0.00090	0.00100
2	0	0	3	1	0	0	3	13805.30630	-0.00221	0.00100
2	0	0	1	1	0	0	2	13824.74830	0.00422	0.00100
2	1	0	5	1	1	0	4	13824.90000	0.00237	0.00100
2	0	0	4	1	0	0	3	13840.31860	0.00074	0.00100
2	1	0	3	1	1	0	2	13844.51230	-0.00462	0.00100
2	0	0	5	1	0	0	4	13852.77410	0.00255	0.00100
2	1	0	3	1	1	0	4	13876.13530	0.00005	0.00100
2	1	0	4	1	1	0	4	13894.61460	-0.00659	0.00100
2	1	0	2	1	1	0	3	13900.71520	0.00479	0.00100
2	0	0	2	1	0	0	2	13916.91920	0.00054	0.00100
2	1	0	3	1	1	0	3	13951.18010	0.00107	0.00100
2	0	0	3	1	0	0	4	13955.71880	-0.00065	0.00100
2	1	0	4	1	1	0	3	13969.66540	0.00043	0.00100
2	0	0	4	1	0	0	4	13990.72890	0.00010	0.00100
2	0	0	3	1	0	0	2	14020.16690	-0.00278	0.00100
20	1	1	21	20	0	0	21	29257646.61000	-0.02451	0.01000
20	1	1	20	20	0	0	20	29257646.91000	-0.08177	0.01000
20	1	1	22	20	0	0	22	29257648.50200	0.08441	0.01000
20	1	1	19	20	0	0	19	29257649.27000	0.07182	0.01000
20	1	1	23	20	0	0	23	29257652.61000	-0.03453	0.01000
20	1	1	18	20	0	0	18	29257652.96000	-0.01543	0.01000
12	0	2	13	12	1	0	13	29257810.00000	3.52396	6.20000
12	0	2	12	12	1	0	12	29257810.00000	3.35036	6.20000
12	0	2	14	12	1	0	14	29257810.00000	3.03475	6.20000
12	0	2	11	12	1	0	11	29257810.00000	2.66061	6.20000
12	0	2	15	12	1	0	15	29257810.00000	1.72027	6.20000
12	0	2	10	12	1	0	10	29257810.00000	1.58745	6.20000
19	-1	1	20	19	0	0	20	29257792.00000	4.19379	4.30000
19	-1	1	19	19	0	0	19	29257792.00000	3.80698	4.30000
19	-1	1	18	19	0	0	18	29257792.00000	1.54369	4.30000
19	-1	1	21	19	0	0	21	29257792.00000	2.39200	4.30000
19	-1	1	22	19	0	0	22	29257792.00000	-1.92435	4.30000
19	-1	1	17	19	0	0	17	29257792.00000	-2.29841	4.30000
12	8	2	15	13	9	0	16	972.7221430	-0.0019919	-0.0034000
12	8	2	11	13	9	0	12	972.7221430	-0.0023083	-0.0034000

12	8	2	14	13	9	0	15	972.7221430	-0.0024160	-0.0034000
12	8	2	12	13	9	0	13	972.7221430	-0.0025357	-0.0034000
12	8	2	13	13	9	0	14	972.7221430	-0.0025840	-0.0034000
11	8	2	9	12	9	0	10	972.9571760	-0.0009208	-0.0034000
11	8	2	14	12	9	0	15	972.9571760	-0.0009696	-0.0034000
11	8	2	10	12	9	0	11	972.9571760	-0.0013153	-0.0034000
11	8	2	13	12	9	0	14	972.9571760	-0.0014123	-0.0034000
11	8	2	11	12	9	0	12	972.9571760	-0.0015503	-0.0034000
11	8	2	12	12	9	0	13	972.9571760	-0.0015939	-0.0034000
11	5	2	9	12	6	0	10	973.0385330	0.0042475	-0.0034000
11	5	2	14	12	6	0	15	973.0385330	0.0041463	-0.0034000
11	5	2	10	12	6	0	11	973.0385330	0.0038970	-0.0034000
11	5	2	13	12	6	0	14	973.0385330	0.0037095	-0.0034000
11	5	2	11	12	6	0	12	973.0385330	0.0036514	-0.0034000
11	5	2	12	12	6	0	13	973.0385330	0.0035678	-0.0034000
10	8	2	8	11	9	0	9	973.1907010	-0.0012078	-0.0034000
10	8	2	13	11	9	0	14	973.1907010	-0.0012372	-0.0034000
10	8	2	9	11	9	0	10	973.1907010	-0.0016151	-0.0034000
10	8	2	12	11	9	0	13	973.1907010	-0.0016786	-0.0034000
10	8	2	10	11	9	0	11	973.1907010	-0.0018447	-0.0034000
10	8	2	11	11	9	0	12	973.1907010	-0.0018733	-0.0034000
10	5	2	8	11	6	0	9	973.2713050	0.0032552	-0.0034000
10	5	2	13	11	6	0	14	973.2713050	0.0031382	-0.0034000
10	5	2	9	11	6	0	10	973.2713050	0.0028559	-0.0034000
10	5	2	12	11	6	0	13	973.2713050	0.0026395	-0.0034000
10	5	2	10	11	6	0	11	973.2713050	0.0025752	-0.0034000
10	5	2	11	11	6	0	12	973.2713050	0.0024787	-0.0034000
10	2	2	8	11	3	0	9	973.3458830	0.0008942	-0.0034000
10	2	2	13	11	3	0	14	973.3458830	0.0007797	-0.0034000
10	2	2	9	11	3	0	10	973.3458830	0.0007036	-0.0034000
10	2	2	10	11	3	0	11	973.3458830	0.0005306	-0.0034000
10	2	2	12	11	3	0	13	973.3458830	0.0004934	-0.0034000
10	2	2	11	11	3	0	12	973.3458830	0.0004369	-0.0034000
9	8	2	12	10	9	0	13	973.4257330	0.0002122	-0.0034000
9	8	2	7	10	9	0	8	973.4257330	0.0001964	-0.0034000
9	8	2	11	10	9	0	12	973.4257330	-0.0001870	-0.0034000
9	8	2	8	10	9	0	9	973.4257330	-0.0002038	-0.0034000
9	8	2	10	10	9	0	11	973.4257330	-0.0003945	-0.0034000
9	8	2	9	10	9	0	10	973.4257330	-0.0004014	-0.0034000
9	5	2	7	10	6	0	8	973.5033240	0.0017401	-0.0034000
9	5	2	12	10	6	0	13	973.5033240	0.0016082	-0.0034000
9	5	2	8	10	6	0	9	973.5033240	0.0012879	-0.0034000
9	5	2	11	10	6	0	12	973.5033240	0.0010437	-0.0034000
9	5	2	9	10	6	0	10	973.5033240	0.0009705	-0.0034000
9	5	2	10	10	6	0	11	973.5033240	0.0008617	-0.0034000
9	2	2	7	10	3	0	8	973.5786550	0.0001321	-0.0034000
9	2	2	12	10	3	0	13	973.5786550	-0.0000147	-0.0034000
9	2	2	8	10	3	0	9	973.5786550	-0.0001058	-0.0034000
9	2	2	9	10	3	0	10	973.5786550	-0.0003232	-0.0034000
9	2	2	11	10	3	0	12	973.5786550	-0.0003737	-0.0034000
9	2	2	10	10	3	0	11	973.5786550	-0.0004426	-0.0034000
8	8	2	8	9	9	0	8	973.6577530	0.0020189	-0.0034000
8	8	2	9	9	9	0	9	973.6577530	-0.0003732	-0.0034000
8	8	2	11	9	9	0	12	973.6577530	-0.0011567	-0.0034000
8	8	2	10	9	9	0	11	973.6577530	-0.0014304	-0.0034000
8	8	2	6	9	9	0	7	973.6577530	-0.0012718	-0.0034000
8	8	2	9	9	9	0	10	973.6577530	-0.0016518	-0.0034000
8	8	2	8	9	9	0	9	973.6577530	-0.0017380	-0.0034000
8	8	2	7	9	9	0	8	973.6577530	-0.0016260	-0.0034000
8	8	2	10	9	9	0	10	973.6577530	-0.0035992	-0.0034000
8	5	2	6	9	6	0	7	973.7345900	-0.0003056	-0.0034000
8	5	2	11	9	6	0	12	973.7345900	-0.0004458	-0.0034000
8	5	2	7	9	6	0	8	973.7345900	-0.0008120	-0.0034000
8	5	2	10	9	6	0	11	973.7345900	-0.0010724	-0.0034000
8	5	2	8	9	6	0	9	973.7345900	-0.0011624	-0.0034000
8	5	2	9	9	6	0	10	973.7345900	-0.0012784	-0.0034000
7	5	2	7	8	6	0	7	973.9711290	0.0033235	-0.0034000
7	5	2	5	8	6	0	6	973.9711290	0.0031218	-0.0034000
7	5	2	10	8	6	0	11	973.9711290	0.0029961	-0.0034000
7	5	2	6	8	6	0	7	973.9711290	0.0025674	-0.0034000
7	5	2	8	8	6	0	8	973.9711290	0.0025044	-0.0034000
7	5	2	9	8	6	0	10	973.9711290	0.0023307	-0.0034000
7	5	2	7	8	6	0	8	973.9711290	0.0022009	-0.0034000
7	5	2	8	8	6	0	9	973.9711290	0.0020955	-0.0034000
7	5	2	9	8	6	0	9	973.9711290	0.0017108	-0.0034000
7	2	2	5	8	3	0	6	974.0440110	-0.0008174	-0.0034000
7	2	2	10	8	3	0	11	974.0440110	-0.0010712	-0.0034000

7	2	2	6	8	3	0	7	974.0444010	-0.0007971	-0.0034000
7	2	2	7	8	3	0	8	974.04440110	-0.0015385	-0.0034000
7	2	2	9	8	3	0	10	974.04440110	-0.0016462	-0.0034000
7	2	2	8	8	3	0	9	974.04440110	-0.0017429	-0.0034000
6	5	2	5	7	6	0	5	974.2028650	0.0041219	-0.0034000
6	5	2	6	7	6	0	6	974.2028650	0.0031209	-0.0034000
6	5	2	7	7	6	0	7	974.2028650	0.0018201	-0.0034000
6	5	2	4	7	6	0	5	974.2028650	0.0018854	-0.0034000
6	5	2	9	7	6	0	10	974.2028650	0.0018418	-0.0034000
6	5	2	5	7	6	0	6	974.2028650	0.0013050	-0.0034000
6	5	2	8	7	6	0	9	974.2028650	0.0012129	-0.0034000
6	5	2	6	7	6	0	7	974.2028650	0.0009749	-0.0034000
6	5	2	7	7	6	0	8	974.2028650	0.0009338	-0.0034000
6	5	2	8	7	6	0	8	974.2028650	0.0001677	-0.0034000
6	5	2	9	7	6	0	9	974.2028650	-0.0018810	-0.0034000
6	4	2	4	7	5	0	5	974.2281950	0.0018754	-0.0034000
6	4	2	9	7	5	0	10	974.2281950	0.0016667	-0.0034000
6	4	2	5	7	5	0	6	974.2281950	0.0012530	-0.0034000
6	4	2	8	7	5	0	9	974.2281950	0.0008679	-0.0034000
6	4	2	6	7	5	0	7	974.2281950	0.0007996	-0.0034000
6	4	2	7	7	5	0	8	974.2281950	0.0006285	-0.0034000
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8	3	1	10	7	2	0	9	977.8710060	-0.0019097	-0.0034000
8	3	1	8	7	2	0	7	977.8710060	-0.0020061	-0.0034000
8	3	1	7	7	2	0	6	977.8710060	-0.0024550	-0.0034000
8	3	1	11	7	2	0	10	977.8710060	-0.0026570	-0.0034000
8	3	1	6	7	2	0	5	977.8710060	-0.0029553	-0.0034000
8	4	1	7	7	3	0	7	977.8990670	0.0008469	-0.0034000
8	4	1	8	7	3	0	8	977.8990670	0.0006218	-0.0034000
8	4	1	9	7	3	0	8	977.8990670	0.0003290	-0.0034000
8	4	1	10	7	3	0	9	977.8990670	0.0001410	-0.0034000
8	4	1	8	7	3	0	7	977.8990670	0.0001046	-0.0034000
8	4	1	9	7	3	0	9	977.8990670	-0.0002258	-0.0034000
8	4	1	7	7	3	0	6	977.8990670	-0.0003628	-0.0034000
8	4	1	11	7	3	0	10	977.8990670	-0.0006548	-0.0034000
8	4	1	6	7	3	0	5	977.8990670	-0.0009288	-0.0034000
8	5	1	9	7	4	0	8	977.9258090	0.0009764	-0.0034000
8	5	1	8	7	4	0	7	977.9258090	0.0008054	-0.0034000
8	5	1	10	7	4	0	9	977.9258090	0.0007690	-0.0034000
8	5	1	7	7	4	0	6	977.9258090	0.0003854	-0.0034000
8	5	1	11	7	4	0	10	977.9258090	0.0000333	-0.0034000
8	5	1	6	7	4	0	5	977.9258090	-0.0001719	-0.0034000
8	6	1	9	7	5	0	8	977.9505740	-0.0004789	-0.0034000
8	6	1	8	7	5	0	7	977.9505740	-0.0005614	-0.0034000
8	6	1	10	7	5	0	9	977.9505740	-0.0006843	-0.0034000
8	6	1	7	7	5	0	6	977.9505740	-0.0008687	-0.0034000
8	6	1	11	7	5	0	10	977.9505740	-0.0012506	-0.0034000
8	6	1	6	7	5	0	5	977.9505740	-0.0013433	-0.0034000
8	7	1	10	7	6	0	10	977.9783520	0.0044934	-0.0034000
8	7	1	9	7	6	0	9	977.9783520	0.0019985	-0.0034000
8	7	1	8	7	6	0	7	977.9783520	0.0009945	-0.0034000
8	7	1	9	7	6	0	8	977.9783520	0.0009533	-0.0034000
8	7	1	7	7	6	0	6	977.9783520	0.0008647	-0.0034000
8	7	1	10	7	6	0	9	977.9783520	0.0007706	-0.0034000
8	7	1	6	7	6	0	5	977.9783520	0.0005465	-0.0034000
8	7	1	11	7	6	0	10	977.9783520	0.0004839	-0.0034000
8	7	1	8	7	6	0	8	977.9783520	0.0001082	-0.0034000
8	7	1	7	7	6	0	7	977.9783520	-0.0012813	-0.0034000
8	7	1	6	7	6	0	6	977.9783520	-0.0022704	-0.0034000
9	1	1	9	8	0	0	9	978.0465270	-0.0031219	-0.0034000
9	1	1	11	8	0	0	10	978.0465270	-0.0038643	-0.0034000
9	1	1	10	8	0	0	9	978.0465270	-0.0038519	-0.0034000
9	1	1	9	8	0	0	8	978.0465270	-0.0039891	-0.0034000
9	1	1	12	8	0	0	11	978.0465270	-0.0041480	-0.0034000
9	1	1	8	8	0	0	7	978.0465270	-0.0041713	-0.0034000
9	1	1	7	8	0	0	6	978.0465270	-0.0043120	-0.0034000
9	6	1	10	8	5	0	9	978.1805210	0.0003531	-0.0034000
9	6	1	9	8	5	0	8	978.1805210	0.0002429	-0.0034000
9	6	1	11	8	5	0	10	978.1805210	0.0001562	-0.0034000
9	6	1	8	8	5	0	7	978.1805210	-0.0000903	-0.0034000
9	6	1	12	8	5	0	11	978.1805210	-0.0004437	-0.0034000
9	6	1	7	8	5	0	6	978.1805210	-0.0005721	-0.0034000
9	7	1	10	8	6	0	10	978.2078290	0.0020081	-0.0034000
9	7	1	10	8	6	0	9	978.2078290	0.0013882	-0.0034000
9	7	1	9	8	6	0	8	978.2078290	0.0013489	-0.0034000
9	7	1	11	8	6	0	10	978.2078290	0.0012081	-0.0034000
9	7	1	8	8	6	0	7	978.2078290	0.0011211	-0.0034000
9	7	1	9	8	6	0	9	978.2078290	0.0009400	-0.0034000
9	7	1	12	8	6	0	11	978.2078290	0.0007736	-0.0034000
9	7	1	7	8	6	0	6	978.2078290	0.0007350	-0.0034000
9	8	1	9	8	7	0	8	978.2318400	-0.0009250	-0.0034000
9	8	1	10	8	7	0	9	978.2318400	-0.0009786	-0.0034000
9	8	1	8	8	7	0	7	978.2318400	-0.0010026	-0.0034000
9	8	1	11	8	7	0	10	978.2318400	-0.0011248	-0.0034000
9	8	1	7	8	7	0	6	978.2318400	-0.0012390	-0.0034000

11	4	1	10	10	3	0	9	978.5866490	0.0006143	-0.0034000
11	4	1	14	10	3	0	13	978.5866490	0.0003511	-0.0034000
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11	7	1	13	10	6	0	12	978.6642400	0.0001322	-0.0034000
11	7	1	10	10	6	0	9	978.6642400	-0.0000452	-0.0034000
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11	10	1	11	10	9	0	10	978.7448440	0.0018878	-0.0034000
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11	10	1	13	10	9	0	12	978.7448440	0.0017389	-0.0034000
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11	10	1	14	10	9	0	13	978.7448440	0.0016688	-0.0034000
12	4	1	13	11	3	0	12	978.8164080	0.0023686	-0.0034000
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12	4	1	10	11	3	0	9	978.8164080	0.0015952	-0.0034000
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12	7	1	15	11	6	0	14	978.8932450	0.0002436	-0.0034000
12	7	1	10	11	6	0	9	978.8932450	0.0001530	-0.0034000
12	10	1	13	11	9	0	12	978.9738490	0.0025303	-0.0034000
12	10	1	12	11	9	0	11	978.9738490	0.0025434	-0.0034000
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12	10	1	11	11	9	0	10	978.9738490	0.0024531	-0.0034000
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12	10	1	15	11	9	0	14	978.9738490	0.0022276	-0.0034000
13	7	1	14	12	6	0	13	979.1230040	0.0024973	-0.0034000
13	7	1	13	12	6	0	12	979.1230040	0.0024217	-0.0034000
13	7	1	15	12	6	0	14	979.1230040	0.0023307	-0.0034000
13	7	1	12	12	6	0	11	979.1230040	0.0021623	-0.0034000
13	7	1	16	12	6	0	15	979.1230040	0.0018579	-0.0034000
13	7	1	11	12	6	0	10	979.1230040	0.0017722	-0.0034000
13	10	1	13	12	9	0	12	979.1983350	-0.0010877	-0.0034000
13	10	1	15	12	9	0	14	979.1983350	-0.0011963	-0.0034000
13	10	1	12	12	9	0	11	979.1983350	-0.0012217	-0.0034000
13	10	1	16	12	9	0	15	979.1983350	-0.0014615	-0.0034000
13	10	1	11	12	9	0	10	979.1983350	-0.0014668	-0.0034000
13	13	1	12	12	12	0	11	979.2789390	0.0002054	-0.0034000
13	13	1	13	12	12	0	12	979.2789390	0.0000839	-0.0034000
13	13	1	14	12	12	0	13	979.2789390	-0.0000143	-0.0034000
13	13	1	11	12	12	0	10	979.2789390	0.0002880	-0.0034000
13	13	1	15	12	12	0	14	979.2789390	-0.0000172	-0.0034000
13	13	1	16	12	12	0	15	979.2789390	0.0001577	-0.0034000
14	10	1	15	13	9	0	14	979.4273410	0.0000637	-0.0034000
14	10	1	14	13	9	0	13	979.4273410	0.0000381	-0.0034000
14	10	1	16	13	9	0	15	979.4273410	-0.0000644	-0.0034000
14	10	1	13	13	9	0	12	979.4273410	-0.0001201	-0.0034000
14	10	1	17	13	9	0	16	979.4273410	-0.0003690	-0.0034000
14	10	1	12	13	9	0	11	979.4273410	-0.0003914	-0.0034000

NEW PARAMETER (EST. ERROR) -- CHANGE THIS ITERATION

1	10000	A	3854.01(127)	0.00
2	20000	B	3466.96481(39)	-0.000000
3	200	-DJ0	-0.705(50)E-03	0.000E-03
4	1100	-DJK0	-2.208(118)E-03	-0.001E-03
5	2000	-DK	-0.189(100)E-36	0.000E-36
6	110010000	1.5eQq	1074.81007(288)	-0.00001
7	10010000	-Caa0	0.05222(37)	0.00000
8	10020000	-Cbb	0.051464(92)	-0.000000
9	11	V11	29258744.5(91)	-0.0
10	10011	A	3851.35(112)	0.00
11	20011	B	3463.4362(224)	0.0000
12	200011	-2AZeta11	0.793(100)E-36	-0.000E-36
13	2011	-DK	-0.189(100)E-36	-0.000E-36
14	110010011	1.5eQq	1042.169(66)	-0.000
15	10020011	-Cbb	0.053005(149)	0.000000

MICROWAVE RMS = 0.546983 MHz, IR RMS = 0.00170