

Table S1: Transitions of $\nu_3+\nu_7$ of $\text{CF}_2^{35}\text{Cl}_2$ (in cm^{-1})
Line assignments for diode laser spectra.

$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ
15 4 11	16 4 12	885.7027	-1	14 11 3	15 11 4	886.1788	19	6 2 4	5 2 3	889.4916	-5
16 9 8	17 9 9	885.7264	6	14 11 4	15 11 5	886.1788	19	6 5 2	5 5 1	889.5072	0
16 9 7	17 9 8	885.7264	7	13 7 6	14 7 7	886.1975	5	6 5 1	5 5 0	889.5072	0
15 6 9	16 6 10	885.7555	5	13 7 7	14 7 8	886.1975	-6	7 0 7	6 0 6	889.5635	0
16 2 14	17 2 15	885.7611	1	13 2 11	14 2 12	886.2137	7	7 1 7	6 1 6	889.5635	15
17 1 17	18 1 18	885.7611	0	14 0 14	15 0 15	886.2158	12	7 2 6	6 2 5	889.6059	-1
17 0 17	18 0 18	885.7611	0	14 1 14	15 1 15	886.2158	12	7 1 6	6 1 5	889.6190	-5
15 6 10	16 6 11	885.7983	-4	13 3 11	14 3 12	886.2241	7	7 3 5	6 3 4	889.6338	-1
15 3 12	16 3 13	885.8156	-1	12 4 8	13 4 9	886.2269	6	7 4 4	6 4 3	889.6496	-1
15 7 8	16 7 9	885.8225	-5	13 8 6	14 8 7	886.2347	1	7 4 3	6 4 2	889.6518	2
16 2 15	17 2 16	885.8384	-2	13 8 5	14 8 6	886.2347	2	7 2 5	6 2 4	889.6518	-7
16 1 15	17 1 16	885.8384	-1	12 3 9	13 3 10	886.2604	6	7 3 4	6 3 3	889.6518	5
15 4 12	16 4 13	885.8449	-1	13 9 4	14 9 5	886.2714	-11	7 5 3	6 5 2	889.6641	-13
14 4 10	15 4 11	885.8672	0	13 9 5	14 9 6	886.2714	-11	7 5 2	6 5 1	889.6641	-13
14 5 9	15 5 10	885.8790	0	12 5 7	13 5 8	886.2842	5	7 6 2	6 6 1	889.6854	1
15 9 6	16 9 7	885.9103	4	13 2 12	14 2 13	886.2948	4	7 6 1	6 6 0	889.6854	1
15 9 7	16 9 8	885.9103	4	13 1 12	14 1 13	886.2948	11	8 0 8	7 0 7	889.7106	-2
16 1 16	17 1 17	885.9128	4	13 10 3	14 10 4	886.3119	-8	8 1 8	7 1 7	889.7106	5
15 2 13	16 2 14	885.9128	1	13 10 4	14 10 5	886.3119	-8	8 2 7	7 2 6	889.7561	0
16 0 16	17 0 17	885.9128	4	12 5 8	13 5 9	886.3237	3	8 1 7	7 1 6	889.7656	0
15 3 13	16 3 14	885.9158	0	12 4 9	13 4 10	886.3318	6	8 3 6	7 3 5	889.7884	-3
14 6 8	15 6 9	885.9571	-3	12 6 6	13 6 7	886.3417	6	8 2 6	7 2 5	889.8077	-10
14 3 11	15 3 12	885.9608	-2	12 6 7	13 6 8	886.3471	5	8 4 5	7 4 4	889.8077	3
14 5 10	15 5 11	885.9717	-1	12 2 10	13 2 11	886.3617	7	8 4 4	7 4 3	889.8116	-2
14 6 9	15 6 10	885.9811	-4	13 1 13	14 1 14	886.3668	12	8 3 5	7 3 4	889.8157	0
15 2 14	16 2 15	885.9906	0	13 0 13	14 0 14	886.3668	12	8 5 3	7 5 2	889.8229	-4
15 1 14	16 1 15	885.9906	2	12 7 5	13 7 6	886.3796	4	8 5 4	7 5 3	889.8229	-1
14 4 11	15 4 12	886.0044	-1	12 3 10	13 3 11	886.3796	11	8 6 2	7 6 1	889.8426	2
14 7 7	15 7 8	886.0113	-6	12 7 6	13 7 7	886.3796	1	8 6 3	7 6 2	889.8426	2
14 7 8	15 7 9	886.0141	-5	12 8 4	13 8 5	886.4149	5	9 0 9	8 0 8	889.8583	1
13 4 9	14 4 10	886.0423	1	12 8 5	13 8 6	886.4149	5	9 1 9	8 1 8	889.8583	4
14 8 7	15 8 8	886.0520	-8	11 4 7	12 4 8	886.4182	8	8 7 2	7 7 1	889.8662	-3
14 8 6	15 8 7	886.0520	-6	11 3 8	12 3 9	886.4207	7	8 7 1	7 7 0	889.8662	-3
15 1 15	16 1 16	886.0639	4	5 2 4	4 2 3	889.2997	-8	9 2 8	8 2 7	889.9050	1
14 2 12	15 2 13	886.0639	5	5 1 4	4 1 3	889.3165	-7	9 1 8	8 1 7	889.9107	1
15 0 15	16 0 16	886.0639	4	5 3 3	4 3 2	889.3184	-5	9 3 7	8 3 6	889.9416	0
14 3 12	15 3 13	886.0695	2	5 3 2	4 3 1	889.3223	-6	9 2 7	8 2 6	889.9604	-2
13 5 8	14 5 9	886.0822	0	5 2 3	4 2 2	889.3275	-6	9 4 6	8 4 5	889.9637	-1
14 9 6	15 9 7	886.0911	-10	5 4 1	4 4 0	889.3314	-7	9 4 5	8 4 4	889.9727	-2
14 9 5	15 9 6	886.0911	-10	5 4 2	4 4 1	889.3314	-6	9 3 6	8 3 5	889.9779	0
14 10 5	15 10 6	886.1345	13	6 1 6	5 1 5	889.4133	-1	9 5 4	8 5 3	889.9806	-2
14 10 4	15 10 5	886.1345	13	6 0 6	5 0 5	889.4164	-1	9 5 5	8 5 4	889.9806	6
14 2 13	15 2 14	886.1430	5	6 2 5	5 2 4	889.4540	-2	9 6 3	8 6 2	889.9989	-1
14 1 13	15 1 14	886.1430	8	6 1 5	5 1 4	889.4701	-3	9 6 4	8 6 3	889.9989	0
13 5 9	14 5 10	886.1468	2	6 3 4	5 3 3	889.4770	-2	10 1 10	9 1 9	890.0059	5
13 6 7	14 6 8	886.1525	1	6 3 3	5 3 2	889.4863	-2	10 0 10	9 0 9	890.0059	4
13 6 8	14 6 9	886.1646	1	6 4 3	5 4 2	889.4916	4	9 7 2	8 7 1	890.0227	2
13 4 10	14 4 11	886.1666	2	6 4 2	5 4 1	889.4916	-2	9 7 3	8 7 2	890.0227	2

$\Delta = \text{o-c}$ (observed minus calculated) in 10^{-4} cm^{-1}

Table S1: Continued (1): Transitions of $\nu_3+\nu_7$ of $\text{CF}_2^{35}\text{Cl}_2$ (in cm^{-1})

Assignments of FTIR spectra.

$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ
37 3 34	38 3 35	882.4264	-12	28 4 25	29 4 26	883.8314	2	21 2 19	22 2 20	884.9962	-5
37 4 34	38 4 35	882.4264	-12	28 3 25	29 3 26	883.8314	2	21 3 19	22 3 20	884.9962	-5
38 2 37	39 2 38	882.4631	0	29 2 28	30 2 29	883.8508	-5	22 0 22	23 0 23	885.0037	8
38 1 37	39 1 38	882.4631	0	29 1 28	30 1 29	883.8508	-5	22 1 22	23 1 23	885.0037	8
36 4 33	37 4 34	882.5853	11	28 3 26	29 3 27	883.9181	-10	21 1 20	22 1 21	885.0756	-11
36 3 33	37 3 34	882.5853	11	28 2 26	29 2 27	883.9181	-10	21 2 20	22 2 21	885.0756	-11
37 1 36	38 1 37	882.6168	-11	29 1 29	30 1 30	883.9389	22	21 1 21	22 1 22	885.1571	23
37 2 36	38 2 37	882.6168	-11	29 0 29	30 0 30	883.9389	22	21 0 21	22 0 22	885.1571	23
37 1 37	38 1 38	882.7112	0	27 4 24	28 4 25	883.9869	6	20 1 19	21 1 20	885.2280	-13
37 0 37	38 0 38	882.7112	0	27 3 24	28 3 25	883.9869	6	20 2 19	21 2 20	885.2280	-13
35 3 32	36 3 33	882.7419	13	28 1 27	29 1 28	884.0048	-2	20 0 20	21 0 21	885.3051	-14
35 4 32	36 4 33	882.7419	13	28 2 27	29 2 28	884.0048	-2	20 1 20	21 1 21	885.3051	-14
36 1 36	37 1 37	882.8662	14	27 3 25	28 3 26	884.0727	-8	19 1 18	20 1 19	885.3807	-11
36 0 36	37 0 37	882.8662	14	27 2 25	28 2 26	884.0727	-8	19 2 18	20 2 19	885.3807	-11
35 1 34	36 1 35	882.9254	-16	28 1 28	29 1 29	884.0887	-6	19 1 19	20 1 20	885.4568	-14
35 2 34	36 2 35	882.9254	-16	28 0 28	29 0 29	884.0887	-6	19 0 19	20 0 20	885.4568	-14
34 2 32	35 2 33	882.9887	-13	26 3 23	27 3 24	884.1411	-2	18 2 17	19 2 18	885.5335	-7
34 3 32	35 3 33	882.9887	-13	26 4 23	27 4 24	884.1411	-2	18 1 17	19 1 18	885.5335	-7
33 4 30	34 4 31	883.0528	-2	27 2 26	28 2 27	884.1588	4	18 0 18	19 0 19	885.6092	-4
33 3 30	34 3 31	883.0528	-2	27 1 26	28 1 27	884.1588	4	18 1 18	19 1 19	885.6092	-4
34 2 33	35 2 34	883.0798	-16	26 3 24	27 3 25	884.2276	-1	17 1 16	18 1 17	885.6862	-2
34 1 33	35 1 34	883.0798	-16	26 2 24	27 2 25	884.2276	-1	17 2 16	18 2 17	885.6862	-2
34 0 34	35 0 35	883.1721	4	27 0 27	28 0 28	884.2423	3	17 1 17	18 1 18	885.7610	0
34 1 34	35 1 35	883.1721	4	27 1 27	28 1 28	884.2423	3	17 0 17	18 0 18	885.7610	0
31 4 27	32 4 28	883.2736	20	26 1 25	27 1 26	884.3114	-4	16 0 16	17 0 17	885.9121	-3
31 5 27	32 5 28	883.2736	20	26 2 25	27 2 26	884.3114	-4	16 1 16	17 1 17	885.9121	-3
32 3 30	33 3 31	883.2979	-23	25 3 23	26 3 24	884.3806	-12	15 0 15	16 0 16	886.0634	-1
32 2 30	33 2 31	883.2979	-23	25 2 23	26 2 24	884.3806	-12	15 1 15	16 1 16	886.0634	-1
33 0 33	34 0 34	883.3241	-7	26 0 26	27 0 27	884.3936	-7	14 0 14	15 0 15	886.2135	-11
33 1 33	34 1 34	883.3241	-7	26 1 26	27 1 27	884.3936	-7	14 1 14	15 1 15	886.2135	-11
31 3 28	32 3 29	883.3636	-12	25 2 24	26 2 25	884.4651	1	14 0 14	13 0 13	890.5950	7
31 4 28	32 4 29	883.3636	-12	25 1 24	26 1 25	884.4651	1	14 1 14	13 1 13	890.5950	7
31 3 29	32 3 30	883.4526	-25	24 2 22	25 2 23	884.5365	8	15 0 15	14 0 14	890.7407	-4
31 2 29	32 2 30	883.4526	-25	24 3 22	25 3 23	884.5365	8	15 1 15	14 1 14	890.7407	-4
32 1 32	33 1 33	883.4792	12	25 0 25	26 0 26	884.5473	6	16 0 16	15 0 15	890.8879	0
32 0 32	33 0 33	883.4792	12	25 1 25	26 1 26	884.5473	6	16 1 16	15 1 15	890.8879	0
30 4 27	31 4 28	883.5198	-6	24 2 23	25 2 24	884.6175	-6	17 0 17	16 0 16	891.0338	-9
30 3 27	31 3 28	883.5198	-6	24 1 23	25 1 24	884.6175	-6	17 1 17	16 1 16	891.0338	-9
31 1 30	32 1 31	883.5427	-11	23 3 21	24 3 22	884.6889	-6	17 2 16	16 2 15	891.0773	4
31 2 30	32 2 31	883.5427	-11	23 2 21	24 2 22	884.6889	-6	17 1 16	16 1 15	891.0773	4
29 5 25	30 5 26	883.5863	22	24 0 24	25 0 25	884.6994	5	18 1 18	17 1 17	891.1813	1
29 4 25	30 4 26	883.5863	23	24 1 24	25 1 25	884.6994	5	18 0 18	17 0 17	891.1813	1
30 2 28	31 2 29	883.6094	-6	23 1 22	24 1 23	884.7708	-3	18 1 17	17 1 16	891.2206	-20
30 3 28	31 3 29	883.6094	-6	23 2 22	24 2 23	884.7708	-3	18 2 17	17 2 16	891.2206	-20
31 1 31	32 1 32	883.6315	5	22 2 20	23 2 21	884.8427	-5	19 0 19	18 0 18	891.3281	5
31 0 31	32 0 32	883.6315	5	22 3 20	23 3 21	884.8427	-5	19 1 19	18 1 18	891.3281	5
30 1 29	31 1 30	883.6981	5	23 0 23	24 0 24	884.8509	0	19 1 18	18 1 17	891.3673	-8
30 2 29	31 2 30	883.6981	5	23 1 23	24 1 24	884.8509	0	19 2 18	18 2 17	891.3673	-8
30 1 30	31 1 31	883.7843	4	22 1 21	23 1 22	884.9230	-9	20 1 20	19 1 19	891.4752	12
30 0 30	31 0 31	883.7843	4	22 2 21	23 2 22	884.9230	-9	20 0 20	19 0 19	891.4752	12

 $\Delta = \text{o-c}$ (observed minus calculated) in 10^{-4} cm^{-1}

Table S1: Continued (2): Transitions of $\nu_3+\nu_7$ of $\text{CF}_2^{35}\text{Cl}_2$ (in cm^{-1})

Assignments of FTIR spectra.

$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ
20 1 19	19 1 18	891.5133	-2	27 1 27	26 1 26	892.4950	3	31 2 29	30 2 28	893.1322	-7
20 2 19	19 2 18	891.5133	-2	27 0 27	26 0 26	892.4950	3	31 3 29	30 3 28	893.1322	-7
21 1 20	20 1 19	891.6595	7	27 1 26	26 1 25	892.5271	-8	31 4 28	30 4 27	893.1594	-4
21 2 20	20 2 19	891.6595	7	27 2 26	26 2 25	892.5271	-8	31 3 28	30 3 27	893.1594	-4
21 2 19	20 2 18	891.6956	-8	27 2 25	26 2 24	892.5600	0	31 5 27	30 5 26	893.1866	13
21 3 19	20 3 18	891.6956	-8	27 3 25	26 3 24	892.5600	0	31 4 27	30 4 26	893.1866	13
22 0 22	21 0 21	891.7675	13	27 4 24	26 4 23	892.5920	13	32 1 31	31 1 30	893.2484	-1
22 1 22	21 1 21	891.7675	13	27 3 24	26 3 23	892.5920	13	32 2 31	31 2 30	893.2484	-1
22 2 21	21 2 20	891.8033	-7	28 1 28	27 1 27	892.6401	0	32 2 30	31 2 29	893.2753	-4
22 1 21	21 1 20	891.8033	-7	28 0 28	27 0 27	892.6401	0	32 3 30	31 3 29	893.2753	-4
22 2 20	21 2 19	891.8403	-3	28 1 27	27 1 26	892.6732	10	32 4 29	31 4 28	893.3032	14
22 3 20	21 3 19	891.8403	-3	28 2 27	27 2 26	892.6732	10	32 3 29	31 3 28	893.3032	14
23 0 23	22 0 22	891.9124	2	28 3 26	27 3 25	892.7026	-7	33 0 33	32 0 32	893.3644	-5
23 1 23	22 1 22	891.9124	2	28 2 26	27 2 25	892.7026	-7	33 1 33	32 1 32	893.3644	-5
23 3 21	22 3 20	891.9841	-7	28 3 25	27 3 24	892.7338	6	33 3 30	32 3 29	893.4437	2
23 2 21	22 2 20	891.9841	-7	28 4 25	27 4 24	892.7338	6	33 4 30	32 4 29	893.4437	2
24 1 24	23 1 23	892.0586	6	29 1 28	28 1 27	892.8161	-4	34 1 34	33 1 33	893.5102	7
24 0 24	23 0 23	892.0586	6	29 2 28	28 2 27	892.8161	-4	34 0 34	33 0 33	893.5102	7
24 2 23	23 2 22	892.0941	2	29 3 27	28 3 26	892.8450	-17	34 2 33	33 2 32	893.5362	6
24 1 23	23 1 22	892.0941	2	29 2 27	28 2 26	892.8450	-17	34 1 33	33 1 32	893.5362	6
24 3 22	23 3 21	892.1288	0	29 3 26	28 3 25	892.8734	-22	34 3 32	33 3 31	893.5613	3
24 2 22	23 2 21	892.1288	0	29 4 26	28 4 25	892.8734	-22	34 2 32	33 2 31	893.5613	3
25 1 25	24 1 24	892.2035	-2	29 5 25	28 5 24	892.9036	8	35 0 35	34 0 34	893.6558	19
25 0 25	24 0 24	892.2035	-2	29 4 25	28 4 24	892.9036	8	35 1 35	34 1 34	893.6558	19
25 2 24	24 2 23	892.2382	-5	30 1 30	29 1 29	892.9311	7	35 2 34	34 2 33	893.6775	-16
25 1 24	24 1 23	892.2382	-5	30 0 30	29 0 29	892.9311	7	35 1 34	34 1 33	893.6775	-16
25 3 23	24 3 22	892.2727	1	30 2 29	29 2 28	892.9588	-19	35 3 32	34 3 31	893.7281	16
25 2 23	24 2 22	892.2727	1	30 1 29	29 1 28	892.9588	-19	35 4 32	34 4 31	893.7281	16
26 1 26	25 1 25	892.3494	1	30 3 28	29 3 27	892.9888	-10	36 4 33	35 4 32	893.8692	14
26 0 26	25 0 25	892.3494	1	30 2 28	29 2 27	892.9888	-10	36 3 33	35 3 32	893.8692	14
26 2 25	25 2 24	892.3822	-12	30 3 27	29 3 26	893.0181	3	37 0 37	36 0 36	893.9431	7
26 1 25	25 1 24	892.3822	-12	30 4 27	29 4 26	893.0181	3	37 1 37	36 1 36	893.9431	7
26 2 24	25 2 23	892.4153	-10	31 0 31	30 0 30	893.0749	-5	37 3 34	36 3 33	894.0077	-11
26 3 24	25 3 23	892.4153	-10	31 1 31	30 1 30	893.0749	-5	37 4 34	36 4 33	894.0077	-11
26 3 23	25 3 22	892.4482	2	31 1 30	30 1 29	893.1025	-20	38 1 37	37 1 36	894.1090	5
26 4 23	25 4 22	892.4482	2	31 2 30	30 2 29	893.1025	-20	38 2 37	37 2 36	894.1090	5

 $\Delta = \text{o-c}$ (observed minus calculated) in 10^{-4} cm^{-1}

Table S2: Transitions of $\nu_3+\nu_7$ of $\text{CF}_2^{35}\text{Cl}^{37}\text{Cl}$ (in cm^{-1})

Line assignments of diode laser spectra.

$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ
7 2 5	8 2 6	881.8662	-10	6 5 1	7 5 2	882.1129	-1	4 4 0	5 4 1	882.4269	11
7 3 4	8 3 5	881.8764	-7	6 6 0	7 6 1	882.1357	2	4 0 4	5 0 5	882.4391	5
7 4 3	8 4 4	881.9182	-4	6 6 1	7 6 2	882.1357	2	4 1 4	5 1 5	882.4486	4
7 3 5	8 3 6	881.9208	-8	6 0 6	7 0 7	882.1480	-4	17 1 16	16 1 15	885.7392	0
7 4 4	8 4 5	881.9258	-1	6 1 6	7 1 7	882.1512	-5	17 2 16	16 2 15	885.7392	0
7 5 2	8 5 3	881.9452	1	5 2 3	6 2 4	882.2045	-3	17 3 15	16 3 14	885.7847	7
7 5 3	8 5 4	881.9452	-3	5 1 4	6 1 5	882.2244	-2	17 2 15	16 2 14	885.7847	4
7 2 6	8 2 7	881.9486	-9	5 3 2	6 3 3	882.2355	5	18 1 18	17 1 17	885.8368	-3
7 6 2	8 6 3	881.9685	-3	5 3 3	6 3 4	882.2487	5	18 0 18	17 0 17	885.8368	-3
7 6 1	8 6 2	881.9685	-3	5 2 4	6 2 5	882.2579	1	18 1 17	17 1 16	885.8827	2
7 7 1	8 7 2	881.9947	0	5 4 2	6 4 3	882.2601	-5	18 2 17	17 2 16	885.8827	2
7 7 0	8 7 1	881.9947	0	5 4 1	6 4 2	882.2601	4	18 2 16	17 2 15	885.9279	10
7 0 7	8 0 8	882.0015	-10	5 5 0	6 5 1	882.2801	9	18 3 16	17 3 15	885.9279	12
7 1 7	8 1 8	882.0034	-9	5 5 1	6 5 2	882.2801	9	17 8 10	16 8 9	885.9365	-8
6 2 4	7 2 5	882.0333	-6	5 0 5	6 0 6	882.2935	-1	17 8 9	16 8 8	885.9365	-10
6 3 3	7 3 4	882.0576	-2	5 1 5	6 1 6	882.2991	-4	19 2 18	18 2 17	886.0263	5
6 1 5	7 1 6	882.0730	-4	4 2 2	5 2 3	882.3794	11	19 1 18	18 1 17	886.0263	5
6 3 4	7 3 5	882.0843	-1	4 1 3	5 1 4	882.3825	11	20 0 20	19 0 19	886.1245	-3
6 4 2	7 4 3	882.0913	3	4 3 1	5 3 2	882.4081	10	20 1 20	19 1 19	886.1245	-3
6 4 3	7 4 4	882.0940	2	4 3 2	5 3 3	882.4127	4	20 1 19	19 1 18	886.1699	10
6 2 5	7 2 6	882.1024	-4	4 2 3	5 2 4	882.4153	7	20 2 19	19 2 18	886.1699	10
6 5 2	7 5 3	882.1129	-2	4 4 1	5 4 2	882.4269	9				

Assignments of FTIR spectra.

$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ	$J' K'_a K'_c$	$J K_a K_c$	$\tilde{\nu}_0^{\text{exp}}$	Δ
30 0 30	31 0 31	878.6090	8	17 1 17	18 1 18	880.5321	-4	19 1 19	18 1 18	885.9802	-7
30 1 30	31 1 31	878.6090	8	16 2 15	17 2 16	880.6108	6	19 0 19	18 0 18	885.9802	-7
26 0 26	27 0 27	879.2020	3	16 1 15	17 1 16	880.6108	7	19 2 18	18 2 17	886.0257	-1
26 1 26	27 1 27	879.2020	3	16 0 16	17 0 17	880.6800	0	19 1 18	18 1 17	886.0257	-1
25 0 25	26 0 26	879.3495	-4	16 1 16	17 1 17	880.6800	0	20 1 20	19 1 19	886.1242	-6
25 1 25	26 1 26	879.3495	-4	15 1 15	16 1 16	880.8283	10	20 0 20	19 0 19	886.1242	-6
24 0 24	25 0 25	879.4976	-4	15 0 15	16 0 16	880.8283	10	20 2 19	19 2 18	886.1686	-3
24 1 24	25 1 25	879.4976	-4	13 1 13	14 1 14	881.1207	-12	20 1 19	19 1 18	886.1686	-3
23 2 22	24 2 23	879.5706	-15	13 0 13	14 0 14	881.1207	-11	21 1 21	20 1 20	886.2701	16
23 1 22	24 1 23	879.5706	-15	11 0 11	12 0 12	881.4150	-10	21 0 21	20 0 20	886.2701	16
23 0 23	24 0 24	879.6458	-2	11 1 11	12 1 12	881.4150	-11	21 1 20	20 1 19	886.3113	-8
23 1 23	24 1 24	879.6458	-2	11 1 11	10 1 10	884.8257	-17	21 2 20	20 2 19	886.3113	-8
22 1 21	23 1 22	879.7199	-8	11 0 11	10 0 10	884.8257	-18	22 1 22	21 1 21	886.4129	7
22 2 21	23 2 22	879.7199	-8	13 1 13	12 1 12	885.1145	-18	22 0 22	21 0 21	886.4129	7
22 1 22	23 1 23	879.7941	2	13 0 13	12 0 12	885.1145	-18	23 0 23	22 0 22	886.5568	11
22 0 22	23 0 23	879.7941	2	14 0 14	13 0 13	885.2592	-15	23 1 23	22 1 22	886.5568	11
21 1 20	22 1 21	879.8681	-9	14 1 14	13 1 13	885.2592	-14	24 0 24	23 0 23	886.6995	4
21 2 20	22 2 21	879.8681	-9	15 1 15	14 1 14	885.4038	-11	24 1 24	23 1 23	886.6995	4
21 0 21	22 0 22	879.9430	12	15 0 15	14 0 14	885.4038	-11	25 0 25	24 0 24	886.8417	-8
21 1 21	22 1 22	879.9430	12	16 0 16	15 0 15	885.5483	-7	25 1 25	24 1 24	886.8417	-8
20 1 20	21 1 21	880.0905	9	16 1 16	15 1 15	885.5483	-7	27 1 27	26 1 26	887.1285	-6
20 0 20	21 0 21	880.0905	9	16 1 15	15 1 14	885.5953	-4	27 0 27	26 0 26	887.1285	-6
19 2 18	20 2 19	880.1665	7	16 2 15	15 2 14	885.5953	-4	28 1 28	27 1 27	887.2697	-25
19 1 18	20 1 19	880.1665	7	17 2 16	16 2 15	885.7392	1	28 0 28	27 0 27	887.2697	-25
19 1 19	20 1 20	880.2385	12	17 1 16	16 1 15	885.7392	1	31 0 31	30 0 30	887.7015	6
19 0 19	20 0 20	880.2385	12	18 0 18	17 0 17	885.8372	1	31 1 31	30 1 30	887.7015	6
17 0 17	18 0 18	880.5321	-4	18 1 18	17 1 17	885.8372	1				

 $\Delta = \text{o-c}$ (observed minus calculated) in 10^{-4} cm^{-1}