

# $^{49}\text{Ti}^{35}\text{Cl}$ Assigned Transitions

Transitions are labeled using four columns, the excited state J value ( $J'$ ), the ground state J value ( $J''$ ), the observed transition wavenumber (Observed) and the fit residual multiplied by  $10^3$  (O-C).

${}^4\Gamma_{5/2} - X^4\Phi_{3/2} (0,0)$ 

J'	J''	Observed	O-C	J'	J''	Observed	O-C
9.5	8.5	23847.2642	4.8	12.5	13.5	23839.9156	-3.6
10.5	9.5	23847.5898	2.0	13.5	14.5	23839.6030	-6.8
11.5	10.5	23847.9202	3.3	14.5	15.5	23839.2976	-3.7
12.5	11.5	23848.2456	-1.2	15.5	16.5	23838.9922	-1.5
13.5	12.5	23848.5775	0.1	16.5	17.5	23838.6916	4.6
14.5	13.5	23848.9108	1.9	17.5	18.5	23838.3800	-1.2
15.5	14.5	23849.2392	-1.9	18.5	19.5	23838.0778	1.4
16.5	15.5	23849.5737	-0.4	19.5	20.5	23837.7764	3.9
17.5	16.5	23849.9055	-2.4	20.5	21.5	23837.4711	1.5
18.5	17.5	23850.2450	2.5	21.5	22.5	23837.1698	2.1
19.5	18.5	23850.5782	0.3	22.5	23.5	23836.8695	2.6
20.5	19.5	23850.9120	-2.2	23.5	24.5	23836.5649	-2.1
21.5	20.5	23851.2480	-3.3	24.5	25.5	23836.2719	3.6
22.5	21.5	23851.5836	-5.6	25.5	26.5	23835.9709	0.3
23.5	22.5	23851.9268	-1.1	26.5	27.5	23835.6744	0.5
25.5	24.5	23852.6095	1.5	27.5	28.5	23835.3769	-1.6
26.5	25.5	23852.9536	4.2	28.5	29.5	23835.0826	-1.5
27.5	26.5	23853.2920	0.4	29.5	30.5	23834.7891	-1.8
28.5	27.5	23853.6352	0.4				