

# $^{47}\text{Ti}^{35}\text{Cl}$ 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
9.5	8.5	23847.3367	6.6	30.5	29.5	23854.5256
10.5	9.5	23847.6674	3.1	31.5	30.5	23854.8816
11.5	10.5	23847.9992	-0.1	10.5	11.5	23840.4945
12.5	11.5	23848.3335	-1.6	11.5	12.5	23840.1822
13.5	12.5	23848.6608	-10.9	12.5	13.5	23839.8654
15.5	14.5	23849.3461	-1.2	13.5	14.5	23839.5482
16.5	15.5	23849.6840	-2.4	14.5	15.5	23839.2356
17.5	16.5	23850.0294	3.1	15.5	16.5	23838.9253
18.5	17.5	23850.3700	2.9	16.5	17.5	23838.6106
19.5	18.5	23850.7154	6.6	17.5	18.5	23838.3031
20.5	19.5	23851.0500	-1.3	18.5	19.5	23837.9938
21.5	20.5	23851.3925	-2.2	19.5	20.5	23837.6777
22.5	21.5	23851.7367	-2.3	20.5	21.5	23837.3783
23.5	22.5	23852.0828	-1.5	21.5	22.5	23837.0662
24.5	23.5	23852.4309	0.5	22.5	23.5	23836.7618
25.5	24.5	23852.7777	0.2	23.5	24.5	23836.4545
26.5	25.5	23853.1271	1.6	24.5	25.5	23836.1508
27.5	26.5	23853.4760	1.5	25.5	26.5	23835.8491
28.5	27.5	23853.8235	-1.0	26.5	27.5	23835.5500
29.5	28.5	23854.1756	0.1	27.5	28.5	23835.2445