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Lines in the Spectrum of

 ${}^7\text{LiH}$ (5177-8643 Å)*F. B. Orth[†] and W. C. Stwalley[‡]Department of Chemistry
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The emission spectra of the $A\ ^1\Sigma^+ - X\ ^1\Sigma^+$ bands of ^7LiH were photographed in the $5177\ \text{\AA} - 8643\ \text{\AA}$ region in the fourth, fifth and sixth order of a 3.4 meter Ebert Spectrograph with reciprocal dispersions of 2.2, 1.7 and $1.4\ \text{\AA}/\text{mm}$. A detailed description of the experiments is given in [1].

The measured lines in the spectra of ^7LiH in the region $5177-8643\ \text{\AA}$ are given in this report (C00-2326-36). Similar spectra for the region $4728-5298\ \text{\AA}$ are given in the companion report (C00-2326-19). In the small region of overlap ($5177-5298\ \text{\AA}$), the line positions are in good agreement, but these are felt to be the more accurate. The assigned lines along with those reported in Jorgensen's thesis [2] and Li's thesis [3] are listed in [1].

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References

1. F. B. Orth and W. C. Stwalley, "New Spectroscopic Analyses of the $A\ ^1\Sigma^+$ - $X\ ^1\Sigma^+$ Bands of ^7LiH ", submitted to J. Mol. Spectrosc.
2. T. Jorgensen, Jr., Ph.D. Thesis, Harvard University (1935).
3. K. C. Li, Ph.D. Thesis, University of Iowa (1976).

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5177.652	19308.39	1, 4R (22)
5178.880	19303.82	1, 5R (13)
5180.949	19296.11	3, 4P (25)
5182.766	19289.34	4, 6R (12)
5183.860	19285.27	0, 5P (8)
5184.320	19283.56	
5184.982	19281.10	2, 4P (23)
5186.909	19273.94	2, 5P (15)
5187.181	19272.93	
5189.658	19263.73	1, 4P (21)
5191.442	19257.11	1, 5P (12)
5192.908	19251.67	2, 3P (29)
5193.352	19250.03	0, 5R (10)
5201.369	19220.36	2, 5R (17)
5202.521	19216.10	0, 5P (9)
5203.987	19210.68	1, 5R (14)
5204.495	19208.81	Cr I
5206.019	19203.19	Cr I
5206.777	19200.39	
5207.219	19198.76	3, 6P (6)
5208.404	19194.39	Cr I
5210.353	19187.21	
5210.595	19186.32	3, 6R (8)
5211.893	19181.54	3, 4R (27)
5213.122	19177.02	
5213.513	19175.59	0, 5R (11)
5215.848	19167.00	2, 4R (25)
5217.186	19162.08	1, 5P (13)
5217.471	19161.04	2, 5P (16)
5220.025	19151.66	4, 6P (12)
5221.137	19147.58	3, 6P (7) 1, 4R (23)
5221.524	19146.17	4, 3P (33)
5223.277	19139.74	0, 5P (10)
5224.266	19136.11	
5224.555	19135.06	
5225.022	19133.35	3, 6R (9)
5226.818	19126.77	4, 6R (14)
5228.888	19119.20	3, 4P (26)
5230.764	19112.35	2, 4P (24)
5231.295	19110.41	1, 5R (15)
5233.270	19103.19	1, 4P (22)
5233.431	19102.61	2, 5R (18)
5236.044	19093.07	0, 5R (12)
5236.848	19090.14	3, 6P (8)
5241.309	19073.89	3, 6R (10)
5244.008	19064.08	
5245.006	19060.45	1, 5P (14)
5246.143	19056.32	0, 5P (11)
5250.129	19041.85	2, 5P (17)
5251.687	19036.20	4, 6R (15)
5254.341	19026.59	3, 6P (9)
5259.484	19007.98	3, 6R (11)
5260.790	19003.26	1, 5R (16)
5261.939	18999.11	3, 4R (28)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5262.484	18997.14	
5263.817	18992.33	2, 4R (26)
5265.408	18986.60	
5266.754	18981.74	
5267.099	18980.50	1, 4R (24)
5267.695	18978.35	2, 5R (19)
5270.005	18970.03	4, 6P (14)
5270.543	18968.10	
5271.192	18965.76	0, 5P (12)
5273.736	18956.61	3, 6P (10)
5274.091	18955.34	
5274.971	18952.18	1, 5P (15)
5278.452	18939.68	4, 6R (16)
5278.898	18938.08	2, 4P (25)
5279.212	18936.95	3, 4P (27)
5281.178	18929.90	
5282.671	18924.55	4, 3P (34)
5282.837	18923.96	
5284.884	18916.63	2, 5P (18)
5287.150	18908.52	
5287.728	18906.45	0, 5R (14)
5292.573	18889.15	1, 5R (17)
5294.582	18881.98	
5295.004	18880.47	3, 6P (11)
5296.636	18874.66	
5297.814	18870.46	4, 6P (15)
5298.173	18869.18	
5298.471	18868.12	0, 5P (13)
5300.085	18862.37	
5302.901	18852.36	
5304.170	18847.84	2, 5R (20)
5307.153	18837.25	1, 5P (16) 4, 6R (17)
5309.915	18827.45	2, 3P (31)
5311.218	18822.83	
5312.509	18818.26	
5313.220	18815.74	
5314.229	18812.17	2, 4R (27)
5314.299	18811.92	3, 4R (29)
5315.573	18807.42	1, 4R (25)
5316.938	18802.59	
5317.045	18802.21	0, 5R (15)
5318.086	18798.53	3, 6P (12)
5321.822	18785.33	2, 5P (19)
5322.915	18781.47	
5323.956	18777.80	
5326.641	18768.33	1, 5R (18)
5327.033	18766.95	
5327.523	18765.23	4, 6P (16)
5327.790	18764.29	1, 4P (24)
5328.041	18763.41	0, 5P (14)
5329.468	18758.38	2, 4P (26)
5331.041	18752.84	
5331.821	18750.10	3, 4P (28)
5335.344	18737.72	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5335.870	18735.87	
5336.149	18734.89	
5337.822	18729.02	4, 6R (18)
5340.652	18719.10	1, 6R (2)
5340.963	18718.01	
5341.551	18715.95	1, 5P (17)
5342.933	18711.11	2, 5R (21)
5344.176	18706.76	
5344.672	18705.02	1, 6R (3)
5345.791	18701.10	
5346.320	18699.25	5, 3P (35)
5348.792	18690.61	0, 5R (16)
5350.610	18684.26	1, 6R (4)
5352.512	18677.62	
5358.473	18656.84	1, 6R (5)
5359.189	18654.35	4, 6P (17)
5359.945	18651.72	0, 5P (15)
5361.019	18647.98	2, 5P (20)
5363.049	18640.92	1, 5R (19)
5365.370	18632.86	1, 6P (4)
5366.478	18629.01	1, 4R (26)
5367.018	18627.14	2, 4R (28)
5367.299	18626.16	
5368.291	18622.72	1, 6R (6)
5368.520	18621.93	
5369.124	18619.83	3, 4R (30)
5370.096	18616.46	
5370.494	18615.08	4, 6R (19)
5372.244	18609.02	
5372.573	18607.88	
5373.699	18603.98	
5376.492	18594.32	1, 6P (5)
5378.269	18588.17	1, 5P (18)
5378.829	18586.24	1, 4P (25)
5380.103	18581.84	1, 6R (7)
5382.497	18573.57	2, 4P (27)
5382.912	18572.14	0, 5R (17)
5384.016	18568.33	2, 5R (22)
5386.883	18558.45	3, 4P (29)
5387.963	18554.73	
5388.649	18552.37	
5389.548	18549.27	1, 6P (6)
5391.254	18543.40	
5392.872	18537.84	4, 6P (18)
5393.023	18537.32	
5393.899	18534.31	1, 6R (8)
5394.240	18533.14	0, 5P (16)
5394.667	18531.67	
5396.818	18524.29	
5397.097	18523.33	
5398.809	18517.45	
5399.087	18516.50	
5401.860	18506.99	1, 5R (20)
5402.487	18504.85	2, 5P (21)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5404.533	18497.84	1, 6P (7)
5405.348	18495.05	4, 6R (20)
5409.755	18479.99	1, 6R (9)
5411.922	18472.59	
5412.365	18471.07	
5412.966	18469.03	
5413.690	18466.55	
5415.647	18459.88	
5417.347	18454.09	1, 5P (19)
5419.638	18446.29	0, 5R (18)
5419.931	18445.29	
5420.283	18444.09	
5421.545	18439.80	1, 6P (8)
5422.183	18437.63	0, 6R (2)
5422.386	18436.94	2, 4R (29)
5426.409	18423.27	3, 4R (31)
5427.463	18419.69	2, 5R (23)
5427.655	18419.04	1, 6R (10)
5428.483	18416.23	4, 6P (19)
5430.079	18410.82	
5430.532	18409.29	0, 6P (2)
5430.992	18407.73	0, 5P (17)
5432.493	18402.64	1, 4P (26)
5432.734	18401.82	0, 6R (4)
5432.891	18401.29	
5434.068	18397.31	
5436.606	18388.72	
5437.253	18386.53	
5438.069	18383.77	2, 4P (28)
5440.537	18375.43	1, 6P (9)
5441.069	18373.64	0, 6R (5)
5442.139	18370.02	4, 6R (21)
5443.106	18366.76	1, 5R (21)
5444.411	18362.36	3, 4P (30)
5446.291	18356.02	2, 5P (22) 0, 6P (4)
5447.707	18351.25	1, 6R (11)
5448.511	18348.54	
5451.475	18338.56	0, 6R (6)
5452.560	18334.91	
5453.330	18332.32	
5458.096	18316.32	
5458.848	18313.79	1, 5P (20)
5459.234	18312.50	0, 6P (5)
5460.981	18306.64	
5461.597	18304.58	1, 6P (10)
5464.041	18296.39	0, 6R (7)
5466.252	18288.99	4, 6P (20)
5469.917	18276.73	1, 6R (12)
5470.258	18275.59	0, 5P (18)
5472.880	18266.84	0, 6P (6)
5473.331	18265.33	2, 5R (24)
5478.760	18247.23	0, 6R (8)
5479.455	18244.92	
5480.263	18242.23	2, 4R (30)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5480.812	18240.40	2, 6R (16)
5481.162	18239.24	
5482.507	18234.76	
5484.758	18227.28	1, 6P (11)
5486.115	18222.77	3, 4R (32)
5486.856	18220.31	1, 5R (22)
5488.571	18214.62	0, 6P (7)
5489.968	18209.98	3, 7R (5)
5490.573	18207.98	
5492.518	18201.53	2, 5P (23)
5494.339	18195.49	1, 6R (13)
5495.693	18191.01	0, 6R (9)
5496.206	18189.32	2, 4P (29)
5496.884	18187.07	
5499.410	18178.72	3, 7R (6)
5500.430	18175.35	0, 5R (20)
5502.833	18167.41	1, 5P (21)
5503.441	18165.40	
5504.481	18161.97	3, 4P (31)
5506.074	18156.72	4, 6P (21)
5506.400	18155.64	0, 6P (8)
5507.334	18152.56	
5509.080	18146.81	3, 7P (5)
5510.039	18143.65	1, 6P (12)
5510.722	18141.40	3, 7R (7)
5511.371	18139.26	
5512.051	18137.03	0, 5P (19)
5512.495	18135.57	2, 6R (17)
5514.592	18128.67	
5514.887	18127.70	0, 6R (10)
5521.002	18107.62	1, 6R (14)
5521.653	18105.49	2, 5R (25)
5521.986	18104.40	3, 7P (6)
5523.977	18097.87	3, 7R (8)
5526.406	18089.92	0, 6P (9)
5527.545	18086.19	
5529.205	18080.76	
5529.493	18079.82	
5530.016	18078.11	
5530.406	18076.83	
5532.226	18070.89	
5533.144	18067.89	1, 5R (23)
5533.343	18067.24	
5533.808	18065.72	
5534.183	18064.50	
5534.572	18063.23	
5534.909	18062.13	1, 4R (29)
5535.468	18060.30	
5535.686	18059.59	
5536.029	18058.47	
5536.413	18057.22	0, 6R (11)
5536.837	18055.84	3, 7P (7)
5537.490	18053.71	1, 6P (13)
5539.180	18048.20	3, 7R (9)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5540.693	18043.27	
5540.766	18043.03	2, 4R (31)
5541.169	18041.72	2, 5P (24)
5542.644	18036.92	
5543.037	18035.64	
5544.805	18029.89	0, 5R (21)
5545.285	18028.33	
5545.767	18026.76	
5546.429	18024.61	2, 6R (18)
5547.752	18020.31	1, 4P (28)
5548.049	18019.35	
5548.415	18018.16	3, 4R (33)
5548.624	18017.48	0, 6P (10)
5549.338	18015.16	1, 5P (22)
5549.975	18013.10	1, 6R (15)
5551.016	18009.72	
5552.439	18005.10	
5553.514	18001.62	3, 7P (8)
5556.331	17992.49	3, 7R (10)
5556.502	17991.94	0, 5P (20)
5557.014	17990.28	2, 4P (30)
5558.301	17986.11	
5558.678	17984.89	
5560.290	17979.68	0, 6R (12)
5562.076	17973.91	
5562.694	17971.91	
5562.878	17971.32	
5563.286	17970.00	
5564.197	17967.05	
5567.180	17957.43	1, 6P (14)
5567.803	17955.42	
5569.348	17950.44	
5570.296	17947.38	
5572.171	17941.34	3, 7P (9)
5572.498	17940.29	2, 5R (26)
5573.123	17938.28	0, 6P (11)
5575.460	17930.76	3, 7R (11)
5581.293	17912.02	1, 6R (16)
5582.019	17909.69	1, 5R (24)
5582.687	17907.55	2, 6R (19)
5584.427	17901.97	2, 7P (2)
5585.321	17899.10	2, 7R (4)
5586.562	17895.13	0, 6R (13)
5596.568	17863.13	3, 7R (12)
5598.442	17857.16	1, 5P (23)
5599.154	17854.88	1, 6P (15)
5599.941	17852.38	0, 6P (12)
5601.545	17847.26	2, 7P (4)
5602.808	17843.24	5, 8R (6)
5603.049	17842.47	2, 7R (6)
5603.617	17840.66	0, 5P (21)
5603.896	17839.77	2, 4R (32)
5604.239	17838.68	2, 6P (18)
5604.509	17837.82	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)	WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5605.367	17835.09		5647.525	17701.96	
5605.882	17833.45		5648.760	17698.09	
5609.515	17821.91	1, 4P (29)	5650.201	17693.57	1, 5P (24)
5611.463	17815.72		5650.829	17691.61	
5611.860	17814.46		5651.234	17690.34	1, 6R (18)
5612.990	17810.87	2, 7P (5)	5653.466	17683.36	0, 5P (22)
5613.259	17810.02	3, 4R (34)	5653.978	17681.75	
5613.511	17809.22	5, 8P (5)	5656.408	17674.16	
5613.752	17808.45	5, 8R (7)	5656.489	17673.90	
5615.038	17804.38	1, 6R (17)	5657.177	17671.75	5, 8P (8)
5615.330	17803.45	0, 6R (14)	5657.737	17670.01	5, 8R (10)
5616.619	17799.36		5658.875	17666.45	
5618.109	17794.64		5659.199	17665.44	2, 7P (8)
5618.307	17794.01		5660.634	17660.96	1, 4R (31)
5618.562	17793.21		5660.825	17660.37	0, 6P (14)
5618.981	17791.88		5662.383	17655.51	2, 6R (21)
5619.560	17790.05		5666.471	17642.77	3, 7P (13)
5619.744	17789.47	3, 7R (13)	5669.768	17632.51	2, 4R (33)
5620.504	17787.06	2, 4P (31)	5670.016	17631.74	
5620.992	17785.52		5670.214	17631.12	1, 6P (17)
5621.349	17784.39	2, 6R (20)	5672.345	17624.50	3, 7R (15)
5622.380	17781.12		5674.067	17619.15	1, 4P (30)
5623.765	17776.75		5674.529	17617.72	1, 7R (2)
5624.457	17774.56		5674.612	17617.46	
5625.324	17771.82		5675.406	17615.00	5, 8P (9)
5625.889	17770.04	2, 5R (27)	5676.130	17612.75	5, 8R (11)
5626.474	17768.19	2, 7P (6) 5,8R(8)	5676.964	17610.16	
5627.282	17765.64		5677.426	17608.73	
5627.712	17764.28		5678.686	17604.82	1, 7R (3) 2,7P(9)
5628.044	17763.23		5680.419	17599.45	0, 6R (16)
5628.501	17761.79		5680.719	17598.52	3, 4R (35)
5628.705	17761.14	2, 7R (8)	5681.183	17597.08	
5629.159	17759.71	0, 6P (13)	5681.882	17594.92	2, 5R (28)
5631.582	17752.07		5682.542	17592.88	
5632.423	17749.42	3, 4P (33)	5684.921	17585.51	1, 7R (4)
5632.948	17747.77		5685.213	17584.61	2, 6P (20)
5633.508	17746.00	1, 6P (16) 1,5R(25)	5685.609	17583.38	
5634.459	17743.01		5686.741	17579.88	2, 4P (32)
5635.227	17740.59		5687.385	17577.89	
5635.377	17740.12		5687.729	17576.83	1, 5R (26)
5638.686	17729.71		5688.582	17574.20	
5639.307	17727.75		5689.095	17572.61	
5639.850	17726.05	3, 7P (12)	5689.926	17570.04	1, 6R (19)
5640.392	17724.34		5693.070	17560.34	
5640.788	17723.10	5, 8P (7)	5693.264	17559.74	
5641.178	17721.88	5, 8R (9)	5693.993	17557.50	0, 5R (24)
5641.528	17720.77		5694.554	17555.77	
5641.814	17719.88	2, 7P (7)	5695.018	17554.33	0, 6P (15)
5642.402	17718.03		5695.514	17552.81	5, 8P (10)
5643.536	17714.47	2, 6P (19)	5696.407	17550.06	5, 8R (12)
5644.631	17711.03	2, 7R (9)	5697.379	17547.06	
5645.003	17709.87	3, 7R (14)	5699.013	17542.03	
5646.124	17706.35	2, 5P (26)	5699.638	17540.11	
5646.607	17704.83	0, 6R (15)	5700.116	17538.63	2, 7P (10)

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V ^o , V ^o 'X (J)
5700.397	17537.77	3, 4P (34)
5700.744	17536.70	
5701.834	17533.35	3, 7R (16)
5702.497	17531.31	2, 5P (27)
5703.082	17529.52	
5703.522	17528.16	
5704.652	17524.69	1, 5P (25)
5705.889	17520.89	2, 6R (22)
5706.057	17520.38	0, 5P (23)
5709.391	17510.14	1, 6P (18)
5710.513	17506.70	
5711.604	17503.36	
5712.148	17501.69	
5712.517	17500.56	
5715.919	17490.15	1, 7R (7)
5715.993	17489.92	
5716.867	17487.25	0, 6R (17)
5717.515	17485.26	5, 8P (11)
5718.699	17481.65	5, 8R (13)
5719.116	17480.37	
5719.981	17477.73	
5721.119	17474.25	
5721.755	17472.31	
5723.150	17468.05	
5723.647	17466.53	2, 7P (11)
5725.840	17459.84	3, 7P (15)
5727.403	17455.08	
5727.685	17454.22	1, 4R (32)
5729.302	17449.29	2, 6P (21)
5729.704	17448.07	
5730.518	17445.59	1, 7R (8)
5731.178	17443.58	1, 6R (20)
5731.733	17441.89	0, 6P (16)
5733.501	17436.51	3, 7R (17)
5734.429	17433.69	
5734.620	17433.11	
5734.925	17432.18	
5737.601	17424.05	
5737.844	17423.31	
5738.293	17421.95	2, 4R (34)
5738.380	17421.69	
5739.224	17419.13	
5740.516	17415.21	2, 5R (29)
5741.475	17412.30	5, 8P (12) 1,4P(31)
5742.862	17408.09	5, 8R (14)
5743.492	17406.18	1, 7P (7)
5744.628	17402.74	1, 5R (27)
5747.240	17394.83	1, 7R (9)
5748.133	17392.13	
5749.321	17388.53	2, 7P (12)
5750.202	17385.87	
5750.556	17384.80	
5750.884	17383.81	3, 4R (36)
5751.087	17383.20	1, 6P (19)

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V ^o , V ^o 'X (J)
5751.905	17380.72	2, 6R (23)
5752.485	17378.97	
5755.312	17370.43	
5755.812	17368.93	2, 4P (33)
5755.961	17368.47	0, 6R (18)
5756.447	17367.01	
5758.735	17360.11	3, 7P (16)
5760.490	17354.82	
5761.563	17351.59	2, 5P (28)
5761.857	17350.70	1, 5P (26)
5762.521	17348.70	
5763.793	17344.87	
5764.152	17343.79	
5764.375	17343.13	0, 7R (1)
5766.196	17337.65	1, 7R (10)
5766.665	17336.24	0, 7R (2)
5767.367	17334.13	3, 7R (18)
5768.685	17330.17	
5769.040	17329.10	5, 8R (15)
5770.057	17326.05	0, 7P (1)
5771.106	17322.90	0, 6P (17) 0,7R(3)
5775.029	17311.13	1, 6R (21)
5775.893	17308.54	2, 6P (22)
5776.081	17307.98	0, 7P (2)
5776.592	17306.45	
5777.214	17304.58	2, 7P (13)
5777.701	17303.12	0, 7R (4)
5778.707	17300.11	
5780.369	17295.14	
5782.014	17290.22	1, 7P (9)
5782.539	17288.65	
5783.394	17286.09	
5784.299	17283.39	0, 7P (3)
5785.513	17279.76	
5785.786	17278.94	
5786.485	17276.86	0, 7R (5)
5787.412	17274.09	1, 7R (11)
5787.915	17272.59	
5788.438	17271.03	
5789.079	17269.11	
5790.061	17266.19	
5791.889	17260.74	
5793.809	17255.02	3, 7P (17)
5794.610	17252.63	0, 7P (4)
5795.106	17251.16	5, 8P (14)
5795.370	17250.37	1, 6P (20)
5796.285	17247.65	
5797.245	17244.79	5, 8R (16)
5797.496	17244.05	0, 7R (6)
5797.754	17243.28	0, 6R (19)
5798.173	17242.03	
5798.828	17240.08	
5800.481	17235.17	2, 6R (24)
5800.890	17233.95	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5801.479	17232.21	
5801.856	17231.09	2, 5R (30)
5802.262	17229.88	
5802.469	17229.26	
5803.584	17225.95	3, 7R (19)
5804.287	17223.87	1, 5R (28)
5804.488	17223.27	1, 7P (10)
5805.342	17220.74	
5806.437	17217.49	
5807.047	17215.68	0, 7P (5)
5807.308	17214.91	
5808.876	17210.26	
5809.133	17209.50	
5809.629	17208.03	2, 4R (35)
5810.237	17206.23	
5810.775	17204.64	0, 7R (7)
5810.910	17204.24	1, 7R (12)
5811.848	17201.46	1, 4P (32)
5813.157	17197.59	0, 6P (18)
5814.600	17193.32	
5814.958	17192.26	
5819.547	17178.70	
5819.896	17177.67	0, 5P (25)
5820.682	17175.36	
5820.918	17174.66	
5821.549	17172.80	1, 6R (22)
5821.651	17172.50	0, 7P (6)
5821.892	17171.78	1, 5P (27)
5823.330	17167.54	2, 5P (29)
5823.724	17166.38	3, 4R (37)
5824.885	17162.96	5, 8P (15)
5825.018	17162.57	2, 6P (23)
5825.268	17161.83	
5826.375	17158.57	0, 7R (8)
5827.466	17155.36	5, 8R (17)
5827.675	17154.75	2, 4P (34)
5828.885	17151.18	
5829.221	17150.20	1, 7P (11)
5831.105	17144.65	3, 7P (18)
5832.145	17141.60	
5832.555	17140.39	
5832.727	17139.89	
5833.115	17138.75	
5833.561	17137.44	
5835.785	17130.91	
5836.305	17129.38	
5836.660	17128.34	
5836.804	17127.91	1, 7R (13)
5837.223	17126.68	
5837.811	17124.96	
5838.533	17122.84	0, 7P (7)
5839.188	17120.92	
5839.497	17120.02	
5840.362	17117.48	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5840.879	17115.96	
5842.074	17112.46	3, 7R (20)
5842.298	17111.81	1, 6P (21) 0, 6R (20)
5843.593	17108.02	
5844.354	17105.79	0, 7R (9)
5844.568	17105.16	3, 4P (36)
5844.737	17104.67	
5845.274	17103.10	
5845.519	17102.38	
5845.946	17101.13	
5851.657	17084.44	2, 6R (25)
5855.485	17073.27	
5856.200	17071.19	1, 7P (12)
5856.611	17069.99	5, 8P (16)
5857.650	17066.96	0, 7P (8)
5857.950	17066.09	0, 6P (19)
5858.868	17063.41	
5859.483	17061.62	
5859.737	17060.88	5, 8R (18)
5861.531	17055.66	
5861.990	17054.32	
5863.583	17049.69	
5864.753	17046.29	0, 7R (10)
5865.070	17045.37	1, 7R (14)
5865.935	17042.86	2, 5R (31)
5866.584	17040.97	
5866.801	17040.34	1, 5R (29)
5868.117	17036.52	
5868.391	17035.72	
5869.857	17031.47	
5870.344	17030.06	
5870.751	17028.88	1, 6R (23)
5871.685	17026.17	
5872.834	17022.84	
5873.507	17020.89	
5873.994	17019.47	
5875.665	17014.63	
5876.465	17012.32	
5876.755	17011.48	2, 6P (24)
5878.224	17007.23	
5879.096	17004.71	0, 7P (9)
5879.412	17003.79	3, 8R (9)
5880.737	16999.96	
5881.210	16998.59	
5882.252	16995.58	
5882.989	16993.45	
5883.804	16991.10	2, 4R (36)
5884.833	16988.13	1, 5P (28)
5885.258	16986.90	1, 4P (33)
5885.542	16986.08	1, 7P (13)
5885.756	16985.46	
5886.116	16984.42	
5887.103	16981.58	
5887.629	16980.06	0, 7R (11)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)	WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5887.925	16979.21	2, 5P (30)	5926.581	16868.46	
5894.025	16961.63	5, 8R (19)	5927.085	16867.03	
5894.615	16959.94		5927.878	16864.77	
5894.908	16959.09		5928.235	16863.75	
5895.870	16956.32	Na I	5929.083	16861.34	0, 7P (11) 1, 7R (16)
5896.794	16953.67		5929.829	16859.22	
5896.983	16953.13		5930.015	16858.69	2, 8R (3)
5897.122	16952.73		5930.208	16858.14	
5897.396	16951.94	3, 8R (10)	5930.505	16857.30	
5898.027	16950.12		5931.111	16855.58	
5898.299	16949.34		5931.484	16854.52	
5898.574	16948.55		5932.149	16852.63	1, 5R (30)
5898.901	16947.61		5932.221	16852.42	
5899.314	16946.43	3, 4R (38)	5932.729	16850.98	2, 5R (32)
5900.170	16943.97		5933.303	16849.35	
5900.426	16943.23		5933.806	16847.92	
5900.544	16942.89		5934.138	16846.98	
5901.400	16940.44		5934.975	16844.60	
5901.516	16940.10		5935.542	16842.99	
5902.070	16938.52		5936.159	16841.24	2, 8R (4)
5902.451	16937.42	2, 4P (35)	5938.361	16835.00	
5902.869	16936.22	0, 7P (10)	5938.480	16834.66	3, 8P (10)
5904.652	16931.11		5939.791	16830.94	0, 6R (22)
5905.508	16928.65	0, 6P (20) 2, 6R (26)	5940.468	16829.03	
5905.980	16927.30		5940.788	16828.12	
5907.340	16923.40		5940.993	16827.54	0, 7R (13)
5907.850	16921.94		5941.511	16826.07	
5908.044	16921.39		5942.245	16823.99	
5908.268	16920.74		5942.451	16823.41	
5909.744	16916.52		5944.300	16818.18	1, 6P (23) 2, 8P (3)
5911.177	16912.42		5945.571	16814.58	
5912.516	16908.59	3, 7P (20)	5946.950	16810.69	
5912.995	16907.22	0, 7R (12)	5947.657	16808.69	
5913.240	16906.52		5948.515	16806.26	
5913.678	16905.27		5948.927	16805.10	
5914.158	16903.89		5949.277	16804.11	
5914.627	16902.55		5949.905	16802.34	
5916.333	16897.68		5950.288	16801.26	
5916.677	16896.70		5950.648	16800.24	1, 5P (29)
5917.186	16895.24	1, 7P (14)	5951.320	16798.34	1, 7P (15)
5917.488	16894.38	3, 8R (11)	5952.532	16794.92	
5917.968	16893.01		5953.220	16792.98	
5918.313	16892.03		5953.414	16792.43	
5919.287	16889.24		5953.832	16791.25	
5920.313	16886.32		5954.265	16790.03	
5920.885	16884.69	3, 4P (37)	5954.476	16789.44	2, 8P (4)
5922.686	16879.56	1, 6R (24)	5954.674	16788.88	2, 8R (6)
5923.059	16878.49		5955.329	16787.03	2, 5P (31)
5923.505	16877.22		5955.759	16785.82	
5923.917	16876.05	2, 8R (1) 2, 8R (0)	5956.016	16785.10	0, 6P (21)
5924.952	16873.10		5956.766	16782.98	
5925.483	16871.59		5957.868	16779.88	0, 7P (12)
5925.930	16870.31	2, 8R (2)	5959.577	16775.07	
5926.245	16869.42		5959.826	16774.37	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5960.316	16772.99	
5960.606	16772.17	
5960.789	16771.66	
5961.180	16770.56	
5961.639	16769.27	2, 4R (37)
5962.021	16768.19	
5962.383	16767.17	3, 8P (11)
5962.556	16766.69	
5963.879	16762.97	
5964.031	16762.54	3, 8R (13)
5964.304	16761.77	
5964.833	16760.28	1, 7R (17)
5965.329	16758.89	
5965.685	16757.89	
5966.251	16756.30	
5966.468	16755.69	
5966.746	16754.91	2, 8P (5)
5967.094	16753.93	2, 8R (7)
5967.615	16752.47	
5968.070	16751.20	
5968.776	16749.21	
5969.917	16746.01	
5971.295	16742.15	
5971.624	16741.23	0, 7R (14)
5972.017	16740.12	
5973.250	16736.67	
5973.586	16735.73	
5973.810	16735.10	
5974.140	16734.17	
5974.558	16733.01	
5976.048	16728.83	
5976.388	16727.88	
5976.788	16726.76	
5977.441	16724.93	1, 6R (25)
5977.705	16724.20	3, 4R (39)
5977.958	16723.49	
5978.623	16721.63	
5979.255	16719.86	
5979.614	16718.86	
5979.898	16718.06	
5980.263	16717.04	2, 4P (36)
5981.093	16714.72	2, 8P (6)
5981.641	16713.19	2, 8R (8)
5982.062	16712.01	
5982.424	16711.00	
5982.975	16709.46	
5983.625	16707.65	
5984.310	16705.74	
5984.679	16704.71	
5985.322	16702.91	
5986.192	16700.48	
5986.499	16699.63	
5987.004	16698.22	
5987.942	16695.60	1, 7P (16)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
5988.228	16694.81	
5988.437	16694.22	3, 8P (12)
5988.748	16693.36	
5989.165	16692.19	0, 7P (13)
5990.194	16689.33	
5990.551	16688.33	3, 8R (14)
5991.081	16686.85	
5991.528	16685.61	
5991.917	16684.53	
5992.364	16683.28	
5992.871	16681.87	0, 6R (23)
5993.304	16680.67	
5993.776	16679.35	
5994.813	16676.47	
5997.119	16670.06	
5997.526	16668.93	2, 8P (7)
5997.865	16667.98	
5997.998	16667.61	
5998.350	16666.64	2, 8R (9)
5998.882	16665.16	
5999.200	16664.27	
5999.484	16663.48	1, 6P (24)
6000.100	16661.77	3, 4P (38)
6000.398	16660.95	
6001.943	16656.66	
6002.404	16655.38	2, 5R (33)
6003.250	16653.03	1, 7R (18)
6003.452	16652.47	
6004.295	16650.13	
6004.716	16648.97	
6004.947	16648.33	0, 7R (15)
6005.589	16646.54	
6006.094	16645.15	
6006.636	16643.64	
6007.185	16642.12	
6007.416	16641.48	
6007.786	16640.46	
6007.962	16639.97	
6008.487	16638.52	
6008.670	16638.01	
6009.403	16635.98	0, 6P (22)
6011.172	16631.09	
6012.090	16628.54	
6012.452	16627.55	
6012.960	16626.14	
6014.258	16622.55	
6014.645	16621.48	
6015.083	16620.27	
6015.775	16618.36	
6016.083	16617.51	2, 8P (8)
6016.658	16615.92	3, 8P (13)
6017.236	16614.32	2, 8R (10)
6018.278	16611.45	
6018.685	16610.32	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6019.331	16608.54	3, 8R (15)
6019.460	16608.19	1, 5P (30)
6019.664	16607.62	
6020.755	16604.61	
6021.025	16603.87	
6021.294	16603.13	
6022.216	16600.59	
6023.091	16598.17	0, 7P (14)
6023.411	16597.29	
6025.168	16592.45	
6025.656	16591.11	2, 5P (32)
6026.503	16588.78	
6026.852	16587.82	
6027.128	16587.06	1, 7P (17)
6029.188	16581.39	
6029.499	16580.53	
6032.466	16572.38	
6032.713	16571.70	
6033.392	16569.84	
6033.954	16568.29	
6034.345	16567.22	
6034.922	16565.64	
6035.049	16565.29	1, 6R (26)
6035.493	16564.07	
6035.891	16562.97	
6036.223	16562.06	
6036.438	16561.47	
6036.784	16560.53	2, 8P (9)
6037.128	16559.58	
6037.445	16558.71	
6037.720	16557.96	
6037.980	16557.25	
6038.355	16556.22	2, 8R (11)
6038.665	16555.37	
6038.953	16554.58	
6040.031	16551.62	
6040.259	16551.00	
6040.750	16549.65	
6041.021	16548.91	0, 7R (16)
6041.582	16547.37	
6043.827	16541.23	
6044.349	16539.80	1, 7R (19)
6044.710	16538.81	4, 9R (2)
6045.159	16537.58	
6045.375	16536.99	
6045.793	16535.85	
6046.159	16534.85	
6046.559	16533.75	
6047.039	16532.44	3, 8P (14)
6047.256	16531.85	
6047.676	16530.70	
6048.119	16529.49	
6048.541	16528.34	
6048.885	16527.40	0, 6R (24)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6049.340	16526.15	
6049.626	16525.37	
6049.831	16524.81	
6050.354	16523.38	3, 8R (16)
6050.801	16522.16	
6051.159	16521.18	
6051.439	16520.42	
6051.925	16519.09	
6052.266	16518.16	
6052.602	16517.25	
6052.855	16516.56	
6053.792	16514.00	
6054.329	16512.53	4, 9R (4)
6054.804	16511.24	
6055.119	16510.38	
6055.490	16509.37	
6055.699	16508.80	
6056.507	16506.60	
6057.113	16504.95	
6057.578	16503.68	1, 6P (25)
6058.009	16502.50	
6058.612	16500.86	
6058.982	16499.85	
6059.689	16497.93	0, 7P (15)
6060.316	16496.22	
6060.659	16495.29	
6060.915	16494.59	
6061.042	16494.25	2, 4P (37)
6061.741	16492.34	2, 8R (12)
6062.126	16491.30	4, 9R (5)
6062.823	16489.40	
6063.140	16488.54	
6063.352	16487.96	
6063.766	16486.84	
6064.195	16485.67	
6064.584	16484.61	
6065.780	16481.36	0, 6P (23)
6066.438	16479.58	
6067.276	16477.30	
6068.746	16473.31	
6068.929	16472.81	1, 7P (18)
6069.608	16470.97	
6070.077	16469.69	
6070.400	16468.82	
6070.619	16468.22	
6071.655	16465.41	1, 5R (32)
6071.932	16464.66	4, 9R (6)
6072.400	16463.39	
6073.406	16460.67	4, 9P (4)
6074.917	16456.57	2, 5R (34)
6077.234	16450.30	
6077.494	16449.60	
6078.145	16447.83	
6079.166	16445.07	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
6079.625	16443.83	3, 8P (15)
6079.869	16443.17	0, 7R (17)
6080.419	16441.68	
6080.871	16440.46	
6081.715	16438.18	
6082.273	16436.67	3, 4P (39)
6083.353	16433.75	
6083.654	16432.94	3, 8R (17)
6084.579	16430.44	
6084.722	16430.06	2, 8P (11)
6085.433	16428.14	4, 9P (5)
6085.854	16427.00	
6087.026	16423.84	
6087.452	16422.69	2, 8R (13)
6088.152	16420.80	1, 7R (20)
6088.517	16419.82	
6088.833	16418.96	
6090.500	16414.47	
6090.952	16413.25	
6091.348	16412.18	1, 5P (31)
6091.798	16410.97	
6092.162	16409.99	
6092.598	16408.82	
6093.088	16407.50	
6095.524	16400.94	1, 6R (27)
6110.797	16359.95	
6111.117	16359.09	
6111.318	16358.55	
6112.038	16356.63	2, 8P (12)
6113.126	16353.72	
6113.418	16352.93	1, 7P (19)
6114.442	16350.20	3, 8P (16)
6114.779	16349.29	
6115.489	16347.40	2, 8R (14)
6116.590	16344.45	
6116.921	16343.57	
6117.272	16342.63	
6117.831	16341.14	
6118.274	16339.96	
6118.590	16339.11	1, 6P (26)
6119.206	16337.47	
6119.307	16337.20	3, 8R (18)
6120.185	16334.85	
6120.615	16333.71	
6121.051	16332.54	
6121.571	16331.16	0, 7R (18)
6122.227	16329.40	
6122.489	16328.71	
6122.932	16327.52	
6123.812	16325.18	
6124.081	16324.46	
6124.342	16323.77	
6124.734	16322.72	
6125.184	16321.52	0, 6P (24)

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
6125.772	16319.95	
6126.773	16317.29	
6127.274	16315.95	
6127.917	16314.24	
6128.412	16312.92	
6128.956	16311.48	
6129.237	16310.73	
6129.464	16310.13	
6129.681	16309.55	
6130.134	16308.34	
6130.814	16306.53	
6131.365	16305.07	4, 9R (10)
6132.119	16303.06	
6132.759	16301.36	
6133.570	16299.21	
6134.343	16297.15	1, 8R (10)
6134.735	16296.11	1, 7R (21)
6135.038	16295.31	
6135.150	16295.01	
6135.783	16293.33	
6137.125	16289.77	
6137.317	16289.26	
6137.800	16287.97	
6137.884	16287.75	
6138.409	16286.36	
6138.791	16285.34	
6139.330	16283.92	
6140.114	16281.84	
6141.248	16278.83	0, 7P (17)
6141.628	16277.82	2, 8P (13)
6142.459	16275.62	0, 8R (2)
6145.516	16267.52	
6145.868	16266.59	2, 8R (15) 1, 5R (33)
6146.500	16264.92	
6147.042	16263.48	0, 8R (3)
6147.331	16262.72	
6148.233	16260.34	
6149.102	16258.04	
6149.471	16257.06	
6149.906	16255.91	
6150.352	16254.73	2, 5R (35)
6150.932	16253.20	
6151.439	16251.86	4, 9R (11)
6151.581	16251.48	3, 8P (17)
6151.806	16250.89	
6152.066	16250.21	
6152.337	16249.49	
6153.171	16247.29	0, 8P (2)
6153.706	16245.88	4, 9P (9)
6153.916	16245.32	0, 8R (4)
6154.378	16244.10	
6154.813	16242.95	
6155.010	16242.43	
6155.349	16241.54	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6155.744	16240.49	
6156.136	16239.46	
6156.681	16238.02	
6157.074	16236.99	
6157.354	16236.25	3, 8R (19)
6158.587	16233.00	
6158.774	16232.51	
6158.966	16232.00	1, 6R (28)
6159.921	16229.48	
6160.332	16228.40	
6160.647	16227.57	1, 7P (20)
6161.628	16224.99	
6161.999	16224.01	0, 8P (3)
6162.667	16222.25	
6163.170	16220.93	0, 8R (5)
6164.155	16218.33	
6165.635	16214.44	
6165.866	16213.83	
6166.170	16213.03	0, 7R (19)
6166.702	16211.64	
6167.013	16210.82	
6167.385	16209.84	3, 4P (40)
6167.853	16208.61	
6168.097	16207.97	
6168.369	16207.26	
6169.353	16204.67	
6169.876	16203.30	0, 6R (26)
6170.338	16202.08	
6170.670	16201.21	
6171.163	16199.92	
6171.814	16198.21	
6172.286	16196.97	
6172.922	16195.30	
6173.115	16194.80	0, 8P (4)
6173.580	16193.58	2, 8P (14)
6174.021	16192.42	
6174.778	16190.43	0, 8R (6)
6175.214	16189.29	2, 5P (34)
6175.859	16187.60	4, 9P (10)
6176.431	16186.10	
6176.618	16185.61	
6177.296	16183.83	
6177.682	16182.82	1, 8P (10)
6178.556	16180.53	
6178.797	16179.90	2, 8R (16)
6179.170	16178.93	
6179.411	16178.29	
6180.034	16176.67	
6180.345	16175.85	
6180.505	16175.43	
6181.688	16172.34	1, 8R (12)
6182.056	16171.37	
6182.611	16169.92	1, 6P (27)
6183.195	16168.39	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6183.750	16166.94	
6184.140	16165.93	1, 7R (22)
6184.450	16165.11	
6184.832	16164.11	
6185.210	16163.13	
6185.422	16162.57	
6185.721	16161.79	
6186.298	16160.28	0, 7P (18)
6186.493	16159.78	0, 8P (5)
6187.171	16158.01	
6187.689	16156.65	0, 6P (25)
6188.823	16153.69	0, 8R (7)
6189.430	16152.11	
6189.544	16151.81	
6189.927	16150.81	
6190.191	16150.12	
6190.671	16148.87	
6191.051	16147.88	3, 8P (18)
6191.528	16146.63	
6192.319	16144.57	
6192.396	16144.37	
6192.871	16143.13	
6193.067	16142.62	
6193.379	16141.81	
6193.756	16140.83	
6194.258	16139.52	
6194.792	16138.13	
6196.017	16134.94	
6196.317	16134.15	
6197.415	16131.30	
6197.887	16130.07	3, 8R (20)
6198.363	16128.83	
6198.673	16128.02	
6199.287	16126.42	
6199.862	16124.93	
6200.129	16124.23	4, 9P (11)
6200.476	16123.33	
6201.837	16119.80	
6202.249	16118.72	0, 8P (6)
6202.536	16117.98	
6203.045	16116.66	
6204.115	16113.88	1, 8P (11)
6204.634	16112.53	
6204.909	16111.81	
6205.354	16110.66	0, 8R (8)
6206.227	16108.39	
6206.452	16107.81	
6207.030	16106.31	
6207.397	16105.36	
6207.643	16104.72	
6207.943	16103.94	2, 8P (15)
6208.260	16103.12	
6209.093	16100.96	1, 8R (13)
6209.227	16100.61	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6209.525	16099.84	
6209.820	16099.07	
6210.426	16097.50	
6210.706	16096.78	1, 7P (21)
6211.508	16094.70	
6211.836	16093.85	
6212.180	16092.96	
6212.712	16091.58	
6212.997	16090.84	
6213.717	16088.97	0, 7R (20)
6214.118	16087.94	2, 8R (17)
6214.888	16085.94	
6215.416	16084.58	
6216.004	16083.06	
6216.543	16081.66	
6217.449	16079.32	
6217.705	16078.66	
6218.474	16076.67	
6219.143	16074.94	
6219.715	16073.46	
6220.035	16072.63	
6220.319	16071.90	0, 8P (7)
6220.639	16071.07	
6221.574	16068.66	
6221.777	16068.13	
6222.010	16067.53	
6222.909	16065.21	
6223.147	16064.60	1, 5R (34)
6224.387	16061.39	0, 8R (9)
6225.342	16058.93	1, 6R (29)
6225.733	16057.92	
6226.243	16056.61	
6226.462	16056.04	4, 9P (12)
6226.755	16055.29	
6227.121	16054.34	
6227.581	16053.16	
6227.967	16052.16	
6228.738	16050.18	2, 5R (36)
6229.348	16048.60	
6229.997	16046.93	3, 4R (42)
6230.454	16045.76	
6231.304	16043.57	
6231.922	16041.97	
6232.355	16040.86	
6232.919	16039.41	3, 8P (19)
6233.542	16037.81	
6233.935	16036.80	
6234.311	16035.83	0, 7P (19)
6235.000	16034.06	0, 6R (27)
6236.231	16030.89	
6236.417	16030.41	1, 7R (23)
6236.703	16029.68	
6237.397	16027.90	
6237.728	16027.05	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6237.931	16026.52	
6238.147	16025.97	
6238.444	16025.20	
6239.014	16023.74	1, 8R (14)
6239.298	16023.01	
6239.437	16022.65	
6239.777	16021.78	
6240.394	16020.20	
6240.832	16019.07	0, 8P (8) 3, 8R (21)
6241.210	16018.10	
6242.037	16015.98	
6242.258	16015.41	
6242.486	16014.83	
6243.068	16013.34	
6243.409	16012.46	
6244.510	16009.64	1, 5P (33)
6244.635	16009.32	2, 8P (16)
6244.974	16008.45	
6245.645	16006.73	
6246.043	16005.71	0, 8R (10)
6246.650	16004.15	
6246.931	16003.43	
6247.236	16002.65	
6247.676	16001.52	
6248.346	15999.81	
6248.653	15999.02	
6248.903	15998.38	
6249.246	15997.51	
6249.676	15996.40	1, 6P (28)
6250.371	15994.62	
6250.720	15993.73	
6251.291	15992.27	
6252.027	15990.39	2, 8R (18)
6252.837	15988.32	4, 9R (15)
6253.372	15986.95	0, 6P (26)
6253.896	15985.61	
6254.352	15984.44	
6254.535	15983.98	2, 5P (35)
6254.943	15982.94	4, 9P (13)
6255.514	15981.48	3, 4P (41)
6256.087	15980.01	
6256.773	15978.26	
6257.319	15976.87	
6257.560	15976.25	
6258.577	15973.65	
6259.108	15972.30	
6259.518	15971.25	
6259.688	15970.82	
6259.938	15970.18	
6260.856	15967.84	
6261.020	15967.42	
6261.376	15966.51	
6261.880	15965.23	
6262.564	15963.49	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
6263.624	15960.78	1, 7P (22)
6263.796	15960.35	0, 8P (9)
6264.232	15959.23	0, 7R (21)
6264.595	15958.31	
6264.917	15957.49	
6265.391	15956.28	
6265.804	15955.23	
6266.996	15952.20	
6268.059	15949.49	
6268.383	15948.67	
6268.823	15947.55	
6269.257	15946.44	
6269.778	15945.12	
6270.346	15943.67	0, 8R (11)
6271.173	15941.57	
6271.563	15940.58	1, 8R (15)
6272.122	15939.16	
6272.274	15938.77	
6272.864	15937.27	
6273.379	15935.96	
6273.654	15935.27	
6274.248	15933.76	
6274.394	15933.39	
6274.860	15932.20	
6275.136	15931.50	
6275.378	15930.89	
6275.993	15929.33	
6276.394	15928.31	
6276.633	15927.70	
6276.878	15927.08	
6277.228	15926.19	3, 8P (20)
6277.865	15924.58	
6278.133	15923.90	
6278.410	15923.19	
6279.203	15921.18	
6279.494	15920.45	
6279.916	15919.38	
6280.624	15917.58	
6281.205	15916.11	
6281.398	15915.62	
6281.638	15915.01	
6282.435	15912.99	
6283.075	15911.37	
6283.404	15910.54	
6283.683	15909.83	4, 9R (16)
6283.839	15909.44	2, 8P (17)
6284.275	15908.34	
6284.597	15907.52	
6285.324	15905.68	0, 7P (20)
6285.540	15905.13	4, 9P (14)
6286.370	15903.03	3, 8R (22)
6286.658	15902.31	
6287.021	15901.39	
6287.450	15900.30	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
6288.206	15898.39	
6289.343	15895.52	0, 8P (10)
6289.594	15894.88	
6290.236	15893.26	
6291.231	15890.75	
6291.619	15889.77	1, 7R (24)
6292.148	15888.43	
6292.435	15887.70	
6292.822	15886.73	
6293.008	15886.26	
6293.496	15885.03	
6293.808	15884.24	
6294.198	15883.26	
6294.496	15882.50	
6294.765	15881.82	1, 6R (30)
6295.188	15880.76	
6295.578	15879.77	
6295.882	15879.01	
6296.731	15876.87	
6297.362	15875.28	0, 8R (12)
6297.890	15873.94	
6298.058	15873.52	1, 8P (14)
6298.438	15872.56	
6298.758	15871.76	
6298.903	15871.39	
6299.144	15870.78	
6299.423	15870.08	
6300.176	15868.18	
6300.603	15867.11	
6300.934	15866.27	
6301.175	15865.67	
6301.459	15864.95	
6302.200	15863.09	
6302.522	15862.28	
6302.826	15861.51	
6303.257	15860.43	0, 6R (28)
6303.534	15859.73	1, 5R (35)
6304.093	15858.32	
6304.490	15857.33	
6305.069	15855.87	
6305.406	15855.02	
6305.587	15854.57	
6305.964	15853.62	
6306.800	15851.52	1, 8R (16)
6307.309	15850.24	2, 9R (2)
6307.517	15849.72	
6307.827	15848.94	
6307.975	15848.57	
6308.598	15847.00	
6308.784	15846.53	
6309.628	15844.41	
6309.892	15843.75	
6310.094	15843.24	2, 5R (37)
6311.470	15839.79	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)	WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6312.003	15838.45		6336.981	15776.02	2, 5P(36)
6312.191	15837.98		6337.521	15774.68	
6312.503	15837.20		6338.545	15772.13	2, 9P(4)
6312.912	15836.17		6338.976	15771.06	
6313.356	15835.06		6339.405	15769.99	0, 7P(21)
6314.038	15833.35		6339.888	15768.79	
6314.344	15832.58		6340.140	15768.16	
6314.539	15832.09		6340.859	15766.37	
6315.264	15830.27		6341.216	15765.49	
6315.966	15828.51		6341.506	15764.77	
6316.517	15827.13		6341.781	15764.08	
6316.731	15826.60	4, 9R(17)	6342.308	15762.77	
6317.471	15824.74	0, 8P(11)	6342.506	15762.28	
6317.813	15823.89	0, 7R(22) 2, 9R(4)	6343.016	15761.01	
6318.361	15822.51	4, 9P(15)	6343.496	15759.82	
6318.601	15821.91		6344.054	15758.43	
6318.848	15821.29	2, 9P(2)	6344.497	15757.34	
6319.203	15820.41		6344.763	15756.67	1, 8R(17)
6319.496	15819.67	1, 7P(23)	6345.233	15755.51	
6319.868	15818.74	1, 6P(29)	6345.721	15754.30	
6321.005	15815.90		6346.287	15752.89	
6321.653	15814.27		6346.522	15752.31	
6322.246	15812.79	0, 6P(27)	6346.749	15751.74	3, 4P(42)
6323.321	15810.10		6347.428	15750.06	
6323.771	15808.98		6347.581	15749.68	
6324.028	15808.34	3, 8P(21)	6347.802	15749.13	
6324.679	15806.71		6348.267	15747.98	0, 8P(12)
6325.291	15805.18		6348.957	15746.27	
6325.613	15804.37	2, 8P(18)	6349.194	15745.68	
6325.835	15803.82	1, 5P(34)	6349.780	15744.23	1, 7R(25)
6326.357	15802.51	2, 9R(5)	6350.070	15743.50	2, 9R(7)
6326.750	15801.53		6350.697	15741.95	
6326.996	15800.92		6351.094	15740.97	
6327.138	15800.57	0, 8R(13)	6351.499	15739.96	
6327.626	15799.35		6351.669	15739.54	2, 9P(5)
6328.145	15798.05		6351.737	15739.37	
6329.715	15794.13		6352.082	15738.52	4, 9R(18)
6330.194	15792.94		6352.363	15737.82	
6330.579	15791.98		6352.746	15736.87	
6331.097	15790.68		6353.015	15736.21	
6331.275	15790.24		6353.370	15735.33	4, 9P(16)
6331.817	15788.89		6353.710	15734.49	
6332.087	15788.22		6354.695	15732.05	
6332.783	15786.48		6355.182	15730.84	
6333.271	15785.26		6355.353	15730.42	
6333.541	15784.59		6355.747	15729.44	
6333.785	15783.98		6356.113	15728.54	
6334.406	15782.44	1, 8P(15) 3, 8R(23)	6356.591	15727.35	
6334.893	15781.22		6356.965	15726.43	
6335.242	15780.35		6357.482	15725.15	
6335.729	15779.14	2, 8R(20)	6357.864	15724.21	
6336.151	15778.09		6358.129	15723.55	
6336.446	15777.35		6358.403	15722.87	
6336.719	15776.67		6358.816	15721.85	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
6359.718	15719.62	0, 8R (14)
6364.266	15708.39	
6364.598	15707.57	
6364.786	15707.10	
6365.309	15705.81	2, 9R (8)
6365.881	15704.40	
6366.314	15703.34	
6367.020	15701.59	2, 9P (6)
6367.243	15701.04	1, 6R (31)
6367.517	15700.37	
6367.802	15699.67	
6368.099	15698.93	
6368.442	15698.09	
6368.522	15697.89	
6368.833	15697.12	
6369.400	15695.73	
6369.981	15694.30	2, 8P (19)
6370.779	15692.33	
6371.411	15690.77	
6372.186	15688.87	
6372.344	15688.47	
6372.687	15687.63	
6373.360	15685.98	3, 8P (22)
6373.567	15685.47	1, 8P (16)
6373.973	15684.46	
6374.426	15683.35	0, 7R (23)
6374.683	15682.72	0, 6R (29)
6375.001	15681.94	
6375.418	15680.91	
6375.704	15680.21	
6376.005	15679.47	
6376.502	15678.25	
6376.923	15677.21	
6377.459	15675.89	
6377.918	15674.77	
6378.356	15673.69	1, 7P (24)
6378.874	15672.41	
6379.354	15671.24	
6379.686	15670.42	
6380.012	15669.62	
6380.727	15667.86	
6381.803	15665.22	0, 8P (13)
6382.882	15662.57	2, 9R (9)
6383.436	15661.22	
6383.768	15660.40	
6384.131	15659.51	
6384.542	15658.50	2, 9P (7)
6384.742	15658.01	
6385.130	15657.06	3, 8R (24)
6385.502	15656.15	1, 8R (18)
6386.012	15654.90	
6386.828	15652.90	
6387.031	15652.40	1, 5R (36)
6387.323	15651.68	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
6387.639	15650.91	
6388.320	15649.24	
6388.899	15647.82	
6389.192	15647.11	
6389.412	15646.57	
6390.422	15644.10	
6390.620	15643.61	4, 9P (17)
6391.071	15642.51	
6391.482	15641.50	
6391.716	15640.93	
6392.462	15639.10	
6392.719	15638.47	
6393.202	15637.29	1, 6P (30)
6393.517	15636.52	
6393.969	15635.42	
6394.426	15634.30	0, 6P (28) 2, 5R (38)
6394.902	15633.13	
6395.237	15632.32	0, 8R (15)
6395.874	15630.76	
6396.079	15630.26	
6396.608	15628.97	0, 7P (22)
6397.089	15627.79	
6397.410	15627.01	
6397.654	15626.41	
6398.107	15625.30	
6398.250	15624.95	
6398.554	15624.21	
6398.894	15623.38	
6399.131	15622.80	
6399.870	15621.00	
6400.382	15619.75	
6400.865	15618.57	
6401.176	15617.81	
6401.438	15617.17	
6402.187	15615.35	
6402.662	15614.19	2, 9R (10)
6403.571	15611.97	
6403.882	15611.21	
6404.325	15610.13	2, 9P (8)
6405.052	15608.36	
6405.624	15606.97	
6406.012	15606.02	
6406.351	15605.20	
6406.804	15604.09	
6407.094	15603.39	
6407.475	15602.46	
6408.038	15601.09	
6408.528	15599.89	
6408.954	15598.86	
6409.246	15598.15	
6409.723	15596.99	
6410.023	15596.26	
6410.473	15595.16	1, 5P (35)
6410.945	15594.01	1, 7R (26)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6411.512	15592.63	
6411.986	15591.48	
6412.472	15590.30	
6412.726	15589.68	
6412.965	15589.10	
6413.427	15587.98	
6414.709	15584.86	
6415.065	15584.00	
6415.292	15583.45	1, 8P (17)
6415.430	15583.11	
6415.902	15581.97	
6416.118	15581.44	
6416.511	15580.49	
6416.952	15579.42	2, 8P (20)
6417.152	15578.93	
6417.460	15578.18	
6417.827	15577.29	
6418.148	15576.51	0, 8P (14)
6418.725	15575.11	
6419.225	15573.90	
6419.608	15572.97	
6419.872	15572.33	
6420.347	15571.18	
6420.817	15570.04	
6421.057	15569.46	
6421.666	15567.98	
6421.976	15567.23	
6422.560	15565.81	2, 5P (37)
6422.971	15564.82	
6423.176	15564.32	
6423.917	15562.52	
6424.844	15560.28	2, 9R (11)
6425.305	15559.16	3, 8P (23)
6425.713	15558.18	
6425.984	15557.52	
6426.361	15556.61	2, 9P (9)
6426.942	15555.20	
6427.221	15554.53	
6427.457	15553.95	
6427.678	15553.42	
6428.040	15552.54	
6428.447	15551.56	
6428.695	15550.96	
6429.087	15550.01	1, 8R (19)
6429.360	15549.35	
6429.836	15548.20	
6430.141	15547.46	4, 9P (18)
6430.515	15546.56	
6431.098	15545.15	
6431.364	15544.50	
6432.171	15542.55	
6432.300	15542.24	
6432.839	15540.94	
6433.084	15540.35	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6433.664	15538.95	0, 8R (16)
6434.212	15537.62	0, 7R (24)
6434.381	15537.22	
6434.753	15536.32	
6434.911	15535.94	
6435.511	15534.49	
6436.357	15532.45	
6436.844	15531.27	
6437.281	15530.22	
6437.674	15529.27	
6437.987	15528.51	
6438.519	15527.23	3, 8R (25)
6438.729	15526.72	
6439.402	15525.10	
6440.265	15523.02	1, 7P (25)
6440.639	15522.12	
6441.051	15521.13	
6441.397	15520.29	
6441.661	15519.66	
6442.142	15518.50	
6442.585	15517.43	
6442.822	15516.86	1, 6R (32)
6443.196	15515.96	
6443.559	15515.08	
6444.187	15513.57	
6444.714	15512.31	
6445.294	15510.91	
6445.520	15510.37	
6445.837	15509.60	
6446.029	15509.14	
6446.460	15508.10	
6446.759	15507.38	
6446.953	15506.92	
6447.638	15505.27	
6448.047	15504.29	
6448.452	15503.31	
6449.409	15501.01	2, 9R (12) 0, 6R (30)
6449.639	15500.46	
6450.701	15497.91	2, 9P (10)
6451.581	15495.79	
6451.949	15494.91	
6452.398	15493.83	
6452.846	15492.76	4, 10R (6)
6453.638	15490.86	
6454.240	15489.41	
6454.495	15488.80	
6454.817	15488.03	
6455.060	15487.44	
6455.492	15486.41	
6455.860	15485.52	
6456.094	15484.96	
6456.516	15483.95	
6456.985	15482.82	0, 7P (23)
6457.373	15481.90	0, 8P (15)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
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6457.676	15481.17	
6458.483	15479.23	
6458.828	15478.41	
6459.224	15477.46	
6459.467	15476.88	
6459.869	15475.91	1, 8P (18)
6460.144	15475.25	
6460.427	15474.58	
6460.763	15473.77	
6461.191	15472.75	
6461.603	15471.76	
6462.117	15470.53	
6462.398	15469.86	
6462.693	15469.15	
6463.076	15468.23	
6463.407	15467.44	
6464.013	15465.99	
6464.274	15465.37	
6465.260	15463.01	4, 10R (7)
6465.544	15462.33	
6465.899	15461.48	
6466.164	15460.85	
6466.617	15459.76	
6466.950	15458.97	
6467.238	15458.28	
6467.815	15456.90	
6467.949	15456.58	
6468.346	15455.63	
6468.747	15454.67	
6469.111	15453.80	
6469.258	15453.45	
6469.746	15452.29	1, 6P (31)
6469.888	15451.95	0, 6P (29)
6470.546	15450.38	
6470.971	15449.36	
6471.282	15448.62	
6471.802	15447.38	
6471.980	15446.95	
6472.722	15445.18	
6472.969	15444.59	
6473.509	15443.31	
6473.707	15442.83	1, 5R (37)
6474.048	15442.02	
6474.337	15441.33	
6474.664	15440.55	
6475.119	15439.47	0, 8R (17) 1, 7R (27)
6475.570	15438.39	1, 8R (20)
6475.878	15437.65	
6476.141	15437.03	
6476.432	15436.34	2, 9R (13)
6477.058	15434.84	
6477.358	15434.13	2, 9P (11)
6477.936	15432.75	
6478.407	15431.63	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
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6478.912	15430.43	
6479.346	15429.39	
6479.638	15428.70	4, 10R (8)
6479.878	15428.13	3, 8P (24)
6480.149	15427.48	
6480.733	15426.09	
6480.867	15425.77	
6481.169	15425.05	
6481.395	15424.51	
6481.748	15423.67	
6481.863	15423.40	2, 5R (39)
6482.301	15422.36	
6482.757	15421.27	
6483.031	15420.62	
6483.406	15419.73	
6483.722	15418.98	
6484.173	15417.91	
6484.490	15417.15	
6484.770	15416.49	
6485.480	15414.80	
6485.735	15414.19	
6486.048	15413.45	
6486.293	15412.87	
6486.575	15412.20	
6486.865	15411.51	
6487.519	15409.96	
6487.783	15409.33	
6488.202	15408.33	
6489.630	15404.94	
6490.109	15403.81	
6490.510	15402.85	
6491.100	15401.45	
6491.739	15399.94	
6492.104	15399.07	
6492.442	15398.27	
6492.957	15397.05	
6493.202	15396.47	
6494.135	15394.26	
6494.607	15393.14	3, 8R (26)
6494.970	15392.28	
6495.271	15391.56	
6495.619	15390.74	
6496.098	15389.60	4, 10R (9)
6496.731	15388.10	
6497.168	15387.07	0, 7R (25)
6498.407	15384.14	1, 5P (36)
6498.774	15383.27	
6499.325	15381.96	
6499.548	15381.44	0, 8P (16)
6499.846	15380.73	
6500.505	15379.17	
6500.852	15378.35	
6501.279	15377.34	
6502.357	15374.79	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6502.771	15373.81	
6502.897	15373.51	
6503.456	15372.19	
6503.679	15371.67	
6503.916	15371.11	
6504.145	15370.56	
6504.354	15370.07	
6504.968	15368.62	
6505.297	15367.84	1, 7P (26)
6505.572	15367.19	
6505.926	15366.36	2, 9R (14)
6506.396	15365.25	2, 9P (12)
6506.723	15364.47	
6506.986	15363.85	
6507.282	15363.15	1, 8P (19)
6508.140	15361.13	
6508.528	15360.21	
6508.956	15359.20	
6509.223	15358.57	
6509.712	15357.42	
6510.414	15355.76	
6510.615	15355.29	
6511.306	15353.66	2, 5P (38)
6511.879	15352.31	
6512.163	15351.64	
6512.504	15350.84	
6512.812	15350.11	
6513.090	15349.46	
6513.470	15348.56	
6513.699	15348.02	
6514.204	15346.83	
6514.556	15346.00	
6514.740	15345.57	4, 10R (10)
6515.107	15344.70	
6515.306	15344.23	
6515.963	15342.69	
6516.171	15342.20	
6516.405	15341.65	
6516.753	15340.83	
6517.068	15340.09	
6517.303	15339.53	
6517.449	15339.19	
6517.704	15338.59	
6517.879	15338.18	
6518.261	15337.28	
6518.435	15336.87	
6518.969	15335.61	
6519.138	15335.21	
6519.536	15334.28	0, 8R (18)
6520.340	15332.39	4, 10P (8)
6520.609	15331.76	0, 7P (24)
6521.076	15330.66	
6521.426	15329.83	
6521.569	15329.50	1, 6R (33)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6522.523	15327.26	
6523.035	15326.05	
6523.314	15325.40	
6523.587	15324.76	
6524.053	15323.66	
6524.410	15322.82	
6524.975	15321.50	1, 8R (21)
6525.342	15320.63	
6525.642	15319.93	
6526.509	15317.90	
6526.889	15317.00	
6527.048	15316.63	
6527.289	15316.06	0, 6R (31)
6527.466	15315.65	
6528.012	15314.37	
6528.341	15313.60	
6528.739	15312.66	
6529.156	15311.69	
6529.450	15311.00	
6530.372	15308.83	
6531.035	15307.28	
6532.130	15304.72	
6532.568	15303.69	
6533.140	15302.35	
6533.616	15301.23	
6534.031	15300.26	
6534.480	15299.21	
6534.749	15298.58	
6535.256	15297.39	
6535.550	15296.71	4, 10R (11)
6535.879	15295.94	
6536.442	15294.62	
6537.048	15293.20	
6537.165	15292.93	3, 8P (25)
6537.904	15291.20	2, 9R (15) 2, 9P (13)
6538.478	15289.86	
6538.889	15288.89	
6539.676	15287.05	
6540.459	15285.22	
6540.691	15284.68	
6540.971	15284.03	
6541.372	15283.09	
6541.542	15282.69	4, 10P (9)
6542.026	15281.56	
6542.436	15280.61	1, 7R (28)
6542.849	15279.64	
6543.894	15277.20	
6544.417	15275.98	
6544.741	15275.22	0, 8P (17)
6546.518	15271.08	
6546.818	15270.38	
6547.560	15268.65	
6547.684	15268.36	
6548.333	15266.85	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V''X (J)
6548.555	15266.33	
6548.806	15265.74	0, 6P (30)
6549.543	15264.02	1, 6P (32)
6550.239	15262.40	
6550.860	15260.96	0, 9R (1)
6551.866	15258.61	
6552.209	15257.81	
6552.478	15257.19	
6552.772	15256.50	
6553.128	15255.67	0, 9R (2)
6553.403	15255.03	3, 8R (27)
6554.009	15253.62	
6554.454	15252.59	
6554.825	15251.72	
6555.109	15251.06	
6555.355	15250.49	
6556.027	15248.93	
6556.772	15247.20	
6557.170	15246.27	
6557.456	15245.61	
6557.668	15245.11	1, 8P (20)
6557.887	15244.60	0, 9R (3)
6558.099	15244.11	0, 9P (1)
6558.539	15243.09	4, 10R (12)
6558.867	15242.33	
6559.961	15239.78	
6560.457	15238.63	
6561.218	15236.86	
6561.380	15236.49	
6561.754	15235.62	
6561.965	15235.13	
6562.227	15234.52	
6562.695	15233.43	H α
6562.800	15233.19	H α
6563.318	15231.99	0, 7R (26)
6563.597	15231.34	1, 5R (38)
6563.841	15230.77	
6564.181	15229.99	
6564.529	15229.18	
6565.066	15227.93	0, 9R (4) 4, 10P (10)
6565.318	15227.35	0, 9P (2)
6565.839	15226.14	
6566.550	15224.49	
6567.091	15223.24	0, 8R (19)
6567.337	15222.67	
6567.553	15222.17	
6567.745	15221.72	
6568.027	15221.07	
6568.543	15219.87	
6568.740	15219.42	
6569.467	15217.73	
6570.405	15215.56	
6570.699	15214.88	
6570.984	15214.22	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V''X (J)
6571.760	15212.42	2, 9P (14)
6572.366	15211.02	
6572.548	15210.60	2, 9R (16)
6572.903	15209.78	
6573.489	15208.42	1, 7P (27)
6573.873	15207.53	
6574.391	15206.33	
6574.760	15205.48	0, 9R (5)
6574.901	15205.15	0, 9P (3)
6575.382	15204.04	
6575.615	15203.50	
6575.860	15202.94	
6576.128	15202.32	
6576.831	15200.69	
6577.049	15200.19	
6577.384	15199.41	1, 8R (22)
6577.951	15198.10	
6578.215	15197.49	
6579.003	15195.67	
6579.592	15194.31	
6579.978	15193.42	
6580.426	15192.39	
6580.781	15191.57	
6581.425	15190.08	
6581.921	15188.94	
6582.149	15188.41	
6582.653	15187.25	
6583.062	15186.30	
6583.218	15185.95	
6583.771	15184.67	4, 10R (13)
6584.718	15182.48	
6585.113	15181.58	
6585.567	15180.53	
6586.100	15179.30	
6586.260	15178.93	
6586.938	15177.37	0, 9R (6) 0, 9P (4)
6587.542	15175.98	0, 7P (25)
6588.016	15174.89	
6588.496	15173.78	
6589.700	15171.01	1, 5P (37)
6590.133	15170.01	
6590.575	15168.99	4, 10P (11)
6591.696	15166.41	
6593.000	15163.41	0, 8P (18)
6594.062	15160.97	
6595.623	15157.38	
6596.171	15156.12	
6596.694	15154.92	
6597.024	15154.17	
6597.250	15153.65	3, 8P (26)
6598.718	15150.28	
6599.026	15149.57	
6599.497	15148.49	
6599.891	15147.58	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
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6600.206	15146.86	
6600.946	15145.16	
6601.308	15144.33	0, 9P (5)
6601.770	15143.27	0, 9R (7)
6602.196	15142.29	
6602.701	15141.13	
6603.140	15140.13	
6603.447	15139.42	1, 6R (34)
6604.171	15137.77	
6605.025	15135.81	
6607.083	15131.09	
6607.692	15129.70	
6608.165	15128.62	2, 9P (15)
6608.536	15127.77	
6609.137	15126.39	
6609.285	15126.05	
6609.794	15124.89	2, 9R (17)
6610.953	15122.24	1, 8P (21)
6611.298	15121.45	4, 10R (14)
6611.875	15120.13	
6612.105	15119.60	
6612.878	15117.83	1, 7R (29)
6613.734	15115.88	
6615.008	15112.97	
6615.313	15112.27	
6615.576	15111.67	
6616.673	15109.16	
6616.950	15108.53	
6617.539	15107.19	
6617.786	15106.62	0, 8R (20)
6618.205	15105.67	0, 9P (6)
6618.859	15104.17	
6619.228	15103.33	0, 9R (8)
6620.023	15101.52	
6620.407	15100.64	
6621.383	15098.42	
6621.709	15097.67	
6621.892	15097.25	
6623.128	15094.44	
6623.576	15093.42	
6623.760	15093.00	
6624.590	15091.11	
6624.969	15090.24	
6627.185	15085.20	
6627.489	15084.51	
6628.130	15083.05	
6629.437	15080.07	
6631.175	15076.12	0, 6P (31)
6631.336	15075.76	
6632.769	15072.50	1, 6P (33) 0, 7R (27)
6633.478	15070.89	1, 8R (23)
6635.996	15065.17	
6637.600	15061.53	0, 9P (7)
6639.403	15057.44	0, 9R (9)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
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6644.427	15046.05	0, 8P (19)
6644.913	15044.95	1, 7P (28)
6647.174	15039.84	2, 9P (16)
6647.238	15039.69	2, 9P (16)
6649.743	15034.02	2, 9R (18)
6657.879	15015.65	0, 7P (26)
6659.643	15011.68	0, 9P (8)
6660.124	15010.59	
6662.367	15005.54	0, 9R (10)
6667.417	14994.17	1, 8P (22)
6671.684	14984.58	0, 8R (21)
6741.738	14828.88	0, 9P (11)
6744.294	14823.26	4, 10R (18)
6744.968	14821.78	
6748.442	14814.15	0, 9R (13)
6757.047	14795.28	0, 8P (21)
6762.635	14783.06	
6763.319	14781.56	
6773.512	14759.32	
6774.777	14756.56	0, 9P (12)
6776.966	14751.79	
6778.408	14748.66	
6778.842	14747.71	
6780.072	14745.04	
6781.185	14742.62	
6781.664	14741.58	
6782.796	14739.12	
6783.130	14738.39	0, 9R (14)
6783.475	14737.64	
6783.966	14736.57	
6786.103	14731.93	
6789.212	14725.19	0, 8R (23)
6789.618	14724.30	
6790.968	14721.38	4, 10P (17)
6792.081	14718.97	
6797.203	14707.87	
6797.698	14706.80	
6808.817	14682.79	
6809.208	14681.95	
6810.698	14678.82	0, 9P (13)
6811.148	14677.76	
6817.867	14663.30	
6818.296	14662.38	0, 8P (22)
6820.887	14656.89	0, 9R (15)
6825.506	14646.89	
6827.747	14642.08	
6829.807	14637.66	
6831.951	14633.07	
6832.368	14632.18	4, 10P (18)
6834.292	14628.06	
6843.341	14608.72	
6845.143	14604.87	
6849.633	14595.50	0, 9P (14)
6852.958	14588.21	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
6855.471	14582.87	
6861.795	14569.52	0, 9R (16)
6882.963	14524.62	0, 8P (23)
6885.920	14518.38	
6889.537	14510.76	
6891.652	14506.44	0, 9P (15)
6893.057	14503.35	
6894.733	14499.82	
6895.503	14498.21	
6901.516	14485.58	
6902.730	14483.03	
6905.811	14476.57	0, 9R (17)
6908.349	14471.25	
6914.568	14458.23	
6914.693	14457.97	
6915.469	14456.35	
6936.733	14412.03	0, 9P (16)
6937.573	14410.29	
6937.680	14410.07	
6945.509	14393.82	
6946.717	14391.32	
6951.658	14381.09	
6952.589	14379.16	
6953.195	14377.91	0, 9R (18)
6956.560	14370.96	
6957.062	14369.92	
6957.643	14368.72	
6961.409	14360.95	
6961.599	14360.56	
6962.800	14358.08	
6963.694	14356.23	
6967.082	14349.25	
6969.686	14343.89	
6970.642	14341.93	
6972.591	14337.92	
6973.730	14335.58	
6978.277	14326.23	
6983.600	14315.32	
6985.092	14312.26	0, 9P (17)
6986.817	14308.72	
6997.631	14286.61	
7002.724	14276.22	
7003.749	14274.13	0, 9R (19)
7003.864	14273.90	
7007.513	14266.46	
7008.723	14264.00	
7009.369	14262.69	
7010.646	14260.09	
7012.544	14256.23	
7013.649	14253.98	
7013.989	14253.29	
7016.038	14249.13	
7057.674	14165.07	0, 9R (20)
7060.161	14160.08	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7061.693	14157.01	
7082.450	14115.52	
7084.495	14111.44	
7085.977	14108.49	
7086.999	14106.46	
7091.755	14097.00	0, 9P (19)
7093.037	14094.45	0, 10R (9)
7093.616	14093.30	
7094.894	14090.76	
7100.662	14079.31	
7103.270	14074.14	
7105.819	14069.10	
7106.575	14067.60	
7109.431	14061.95	
7110.123	14060.58	
7111.216	14058.42	
7112.163	14056.55	
7115.101	14050.74	0, 9R (21)
7117.373	14046.26	0, 10R (10)
7118.950	14043.14	
7119.792	14041.48	
7120.378	14040.33	
7121.160	14038.79	
7122.817	14035.52	
7125.550	14030.14	
7128.546	14024.24	
7130.391	14020.61	
7132.156	14017.14	
7135.306	14010.95	
7136.318	14008.97	
7137.535	14006.58	
7138.968	14003.77	
7140.829	14000.12	
7142.942	13995.98	
7145.836	13990.31	
7147.541	13986.97	
7150.114	13981.94	0, 9P (20)
7152.325	13977.61	
7153.034	13976.23	
7160.454	13961.75	
7162.517	13957.73	
7164.812	13953.26	
7167.270	13948.47	
7194.172	13896.31	
7196.563	13891.69	
7197.777	13889.35	
7198.400	13888.15	
7199.551	13885.93	
7201.205	13882.74	
7202.323	13880.58	
7208.495	13868.70	0, 10R (13)
7212.380	13861.23	0, 9P (21)
7212.753	13860.51	
7213.258	13859.54	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7215.561	13855.12	
7220.950	13844.78	
7221.939	13842.88	
7230.172	13827.12	
7231.702	13824.19	
7252.519	13784.52	
7253.120	13783.37	
7253.414	13782.81	
7253.939	13781.82	
7254.194	13781.33	
7255.141	13779.53	
7255.733	13778.41	
7256.592	13776.78	
7258.103	13773.91	
7258.352	13773.44	
7259.015	13772.18	
7259.465	13771.33	
7261.090	13768.24	
7261.520	13767.43	
7261.965	13766.59	
7262.672	13765.24	
7263.137	13764.36	
7263.611	13763.46	
7263.929	13762.86	
7264.690	13761.42	
7265.103	13760.64	
7265.630	13759.64	
7266.101	13758.75	
7266.637	13757.73	
7267.862	13755.42	
7268.445	13754.31	
7269.905	13751.55	
7270.351	13750.71	
7271.591	13748.36	
7271.876	13747.82	
7272.355	13746.92	
7273.363	13745.01	
7273.825	13744.14	
7274.164	13743.50	
7274.934	13742.04	
7275.520	13740.94	
7276.162	13739.72	
7276.748	13738.62	
7277.303	13737.57	2, 10R (22) 2, 10P (20)
7277.538	13737.13	
7277.700	13736.82	0, 9P (22)
7278.205	13735.87	
7279.616	13733.20	0, 10P (13)
7280.599	13731.35	
7281.373	13729.89	
7282.177	13728.37	
7283.156	13726.53	
7283.709	13725.49	
7284.312	13724.35	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7284.766	13723.50	
7285.387	13722.33	0, 10R (15)
7285.858	13721.44	
7286.307	13720.59	
7287.421	13718.50	
7288.307	13716.83	
7288.993	13715.54	
7290.299	13713.08	
7290.551	13712.61	
7290.723	13712.28	
7291.310	13711.18	
7291.782	13710.29	
7292.547	13708.85	
7292.820	13708.34	
7293.755	13706.58	
7294.691	13704.82	
7295.368	13703.55	
7296.052	13702.27	
7296.930	13700.62	
7297.334	13699.86	
7297.487	13699.57	
7298.226	13698.19	
7298.663	13697.37	
7299.258	13696.25	
7301.089	13692.81	
7301.454	13692.13	
7302.246	13690.65	
7302.808	13689.59	
7303.212	13688.83	
7303.524	13688.25	
7304.392	13686.62	
7304.631	13686.17	
7307.151	13681.45	
7307.881	13680.09	0, 9R (24)
7309.332	13677.37	
7309.873	13676.36	
7310.355	13675.46	
7310.963	13674.32	
7311.357	13673.59	
7311.698	13672.95	
7312.607	13671.25	
7313.045	13670.43	
7313.677	13669.25	
7314.181	13668.30	
7314.800	13667.15	
7316.301	13664.35	
7317.237	13662.60	
7317.758	13661.62	
7318.003	13661.17	
7319.297	13658.75	
7319.736	13657.93	
7320.197	13657.07	
7321.237	13655.13	0, 10P (14)
7321.582	13654.49	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V ⁰ , V ⁰ 'X (J)
7321.802	13654.08	
7322.219	13653.30	
7323.707	13650.53	
7323.912	13650.15	
7324.343	13649.34	
7325.042	13648.04	
7325.506	13647.17	
7325.998	13646.26	
7326.411	13645.49	
7326.822	13644.72	
7327.202	13644.02	
7327.504	13643.45	
7328.051	13642.44	
7328.575	13641.46	
7328.792	13641.06	0, 10R (16)
7328.992	13640.68	
7329.873	13639.04	
7330.517	13637.85	
7331.182	13636.61	
7331.513	13635.99	
7331.637	13635.76	
7333.028	13633.18	2, 10P (21)
7334.017	13631.34	2, 10R (23)
7334.318	13630.78	
7335.589	13628.42	
7335.908	13627.82	
7336.438	13626.84	
7337.135	13625.55	
7337.377	13625.10	
7338.024	13623.89	
7338.612	13622.80	
7339.099	13621.90	
7339.657	13620.86	
7340.288	13619.69	
7340.584	13619.14	
7342.399	13615.78	
7342.688	13615.24	
7343.666	13613.43	
7344.002	13612.81	
7344.534	13611.82	
7345.030	13610.90	1, 11R (3)
7345.198	13610.59	
7346.789	13607.64	0, 9P (23)
7347.269	13606.75	
7347.571	13606.19	
7348.102	13605.21	
7348.509	13604.45	
7348.891	13603.75	
7349.969	13601.75	
7350.487	13600.79	
7350.995	13599.85	
7351.359	13599.18	
7351.757	13598.45	
7352.090	13597.83	1, 11R (4)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V ⁰ , V ⁰ 'X (J)
7353.359	13595.48	
7354.558	13593.27	
7354.918	13592.60	
7355.262	13591.97	
7355.871	13590.84	
7356.108	13590.40	1, 11P (2)
7356.660	13589.38	
7358.306	13586.34	
7358.993	13585.07	
7359.408	13584.31	
7359.675	13583.81	
7360.267	13582.72	
7360.801	13581.74	
7361.637	13580.20	1, 11R (5)
7362.546	13578.52	
7362.745	13578.15	
7363.299	13577.13	
7363.692	13576.41	
7364.705	13574.54	
7365.728	13572.65	
7366.148	13571.88	0, 10P (15)
7366.753	13570.76	1, 11P (3)
7367.762	13568.91	
7368.165	13568.16	
7368.920	13566.77	
7369.217	13566.23	
7369.699	13565.34	
7370.710	13563.48	
7371.581	13561.88	
7372.366	13560.43	
7372.822	13559.59	
7373.170	13558.95	
7373.919	13557.58	1, 11R (6)
7374.596	13556.33	
7374.830	13555.90	
7375.604	13554.48	0, 10R (17)
7376.069	13553.62	
7376.227	13553.33	
7376.554	13552.73	
7377.126	13551.68	
7377.646	13550.73	
7379.189	13547.89	0, 9R (25)
7379.966	13546.47	1, 11P (4)
7380.779	13544.98	
7381.451	13543.74	
7381.821	13543.06	
7382.154	13542.45	
7382.641	13541.56	
7384.466	13538.21	
7385.499	13536.32	
7386.005	13535.39	
7386.499	13534.49	
7387.338	13532.95	
7387.570	13532.52	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7387.798	13532.11	
7388.567	13530.70	
7388.782	13530.30	1, 11R (7)
7389.414	13529.15	
7390.504	13527.15	
7391.589	13525.17	2, 10P (22)
7392.073	13524.28	
7392.679	13523.17	
7393.137	13522.33	
7393.737	13521.24	2, 10R (24)
7395.211	13518.54	
7395.705	13517.64	1, 11P (5)
7395.937	13517.22	
7396.230	13516.68	
7397.077	13515.13	
7397.715	13513.97	
7398.169	13513.14	
7398.294	13512.91	
7398.719	13512.13	
7400.164	13509.49	
7400.961	13508.04	
7401.878	13506.37	
7402.699	13504.87	
7403.032	13504.26	
7403.861	13502.75	
7404.407	13501.75	
7405.075	13500.53	
7406.411	13498.10	1, 11R (8)
7407.206	13496.65	
7407.716	13495.72	
7407.979	13495.24	
7408.515	13494.27	
7409.727	13492.06	
7410.292	13491.03	
7410.831	13490.05	
7411.360	13489.09	
7412.057	13487.82	
7413.022	13486.06	
7414.107	13484.09	1, 11P (6)
7414.428	13483.50	0, 10P (16)
7415.768	13481.07	
7416.339	13480.03	
7419.558	13474.18	0, 9P (24)
7419.945	13473.48	
7420.629	13472.24	
7421.039	13471.49	
7421.985	13469.78	
7422.571	13468.71	
7422.790	13468.31	
7423.335	13467.33	
7423.759	13466.56	
7425.499	13463.40	
7425.844	13462.77	0, 10R (18)
7426.766	13461.10	1, 11R (9)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7428.168	13458.56	
7428.367	13458.20	
7429.021	13457.02	
7429.280	13456.55	
7429.916	13455.40	
7435.154	13445.92	
7435.614	13445.09	
7436.240	13443.95	
7436.876	13442.80	
7437.498	13441.68	
7437.868	13441.01	
7438.776	13439.37	
7439.775	13437.57	
7440.429	13436.39	
7440.986	13435.38	
7441.693	13434.10	
7442.305	13433.00	
7442.523	13432.61	
7442.933	13431.86	
7443.664	13430.55	
7444.170	13429.63	
7446.037	13426.27	
7446.900	13424.71	
7448.430	13421.95	
7448.599	13421.65	
7449.012	13420.90	
7449.345	13420.30	
7449.936	13419.24	1, 11R (10)
7450.275	13418.63	
7450.689	13417.88	
7451.105	13417.13	
7451.774	13415.93	
7451.941	13415.63	
7452.264	13415.05	
7453.252	13413.27	2, 10P (23)
7454.049	13411.83	0, 9R (26)
7454.406	13411.19	
7455.704	13408.86	
7456.440	13407.53	
7457.091	13406.36	
7457.608	13405.43	
7458.237	13404.30	
7458.664	13403.54	1, 11P (8)
7458.970	13402.99	
7459.494	13402.05	
7460.358	13400.49	
7461.118	13399.13	
7461.845	13397.82	
7462.289	13397.03	
7462.960	13395.82	
7463.278	13395.25	
7463.724	13394.45	
7464.223	13393.55	
7464.724	13392.66	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7466.121	13390.15	0, 10P (17)
7467.444	13387.78	
7467.831	13387.08	
7468.234	13386.36	
7469.250	13384.54	
7470.083	13383.05	
7470.433	13382.42	
7471.192	13381.06	
7471.869	13379.85	
7472.270	13379.13	
7472.607	13378.53	
7473.016	13377.79	
7473.763	13376.46	
7475.924	13372.59	1, 11R (11)
7476.275	13371.96	
7476.862	13370.91	
7477.295	13370.14	
7477.691	13369.43	
7478.075	13368.74	
7478.354	13368.25	
7478.826	13367.40	
7479.591	13366.03	0, 10R (19)
7480.362	13364.66	
7481.063	13363.41	
7482.137	13361.49	
7482.860	13360.20	
7483.518	13359.02	
7484.476	13357.31	
7484.926	13356.51	1, 11P (9)
7485.832	13354.89	
7486.665	13353.41	
7486.830	13353.11	
7487.775	13351.43	
7488.185	13350.69	
7488.700	13349.78	
7489.600	13348.17	
7490.208	13347.09	
7492.500	13343.01	
7492.966	13342.18	
7493.318	13341.55	
7493.768	13340.75	
7494.039	13340.27	
7494.661	13339.16	
7495.035	13338.49	
7495.445	13337.76	0, 11R (2)
7495.991	13336.79	0, 9P (25)
7496.591	13335.72	
7496.870	13335.23	
7497.207	13334.63	
7497.814	13333.55	
7498.509	13332.31	
7498.995	13331.45	
7499.191	13331.10	
7499.413	13330.71	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7500.429	13328.90	0, 11R (3)
7500.608	13328.58	
7501.725	13326.60	
7501.944	13326.21	
7502.583	13325.07	
7502.844	13324.61	
7503.106	13324.15	
7504.787	13321.16	1, 11R (12)
7505.359	13320.15	
7506.489	13318.14	
7506.836	13317.53	
7507.652	13316.08	
7507.993	13315.47	0, 11R (4)
7508.455	13314.65	
7508.862	13313.93	
7509.311	13313.14	
7509.869	13312.15	
7510.272	13311.43	
7510.597	13310.86	
7510.958	13310.22	
7511.143	13309.89	
7511.409	13309.42	
7512.910	13306.76	
7513.406	13305.88	
7513.989	13304.85	1, 11P (10)
7515.434	13302.29	
7515.877	13301.50	
7517.048	13299.43	
7517.594	13298.47	
7518.069	13297.63	2, 10P (24)
7518.435	13296.98	0, 11R (5)
7518.763	13296.40	
7519.017	13295.95	
7519.657	13294.82	
7520.011	13294.19	
7520.727	13292.93	
7520.962	13292.51	
7521.305	13291.91	0, 10P (18)
7521.429	13291.69	
7522.370	13290.02	2, 10R (26)
7524.003	13287.14	
7524.595	13286.09	
7524.734	13285.85	
7525.960	13283.68	
7526.227	13283.21	
7526.752	13282.29	
7527.224	13281.45	
7527.824	13280.40	
7528.361	13279.45	
7528.906	13278.49	
7530.080	13276.42	
7530.627	13275.45	
7531.231	13274.39	
7531.767	13273.44	0, 11R (6)

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7532.509	13272.13	0, 9R (27)
7533.175	13270.96	
7534.207	13269.14	
7534.859	13268.00	
7536.285	13265.48	
7536.851	13264.49	0, 10R (20)
7537.229	13263.82	
7537.954	13262.55	
7538.655	13261.32	
7541.885	13255.64	
7542.628	13254.33	
7542.880	13253.89	
7543.262	13253.22	
7543.800	13252.27	
7544.233	13251.51	
7545.053	13250.07	
7545.293	13249.65	
7545.847	13248.68	1, 11P (11)
7545.931	13248.53	
7546.299	13247.88	
7546.768	13247.06	
7547.092	13246.49	
7547.674	13245.47	
7548.083	13244.75	0, 11R (7)
7548.331	13244.31	
7548.630	13243.79	
7549.009	13243.13	
7549.451	13242.35	
7549.847	13241.66	
7550.289	13240.88	
7550.636	13240.27	
7550.866	13239.87	
7551.067	13239.52	
7551.369	13238.99	
7552.168	13237.59	
7553.233	13235.72	0, 11P (5)
7554.196	13234.03	
7554.465	13233.56	
7554.765	13233.04	
7555.524	13231.71	
7557.041	13229.05	
7557.807	13227.71	
7558.075	13227.24	
7558.578	13226.36	
7558.930	13225.75	
7559.395	13224.93	
7560.256	13223.42	
7560.817	13222.44	
7561.179	13221.81	
7562.053	13220.28	
7563.812	13217.21	
7564.233	13216.47	
7564.834	13215.42	
7565.124	13214.92	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7565.440	13214.36	
7565.766	13213.80	
7566.113	13213.19	
7566.637	13212.27	
7567.369	13211.00	0, 11R (8)
7569.227	13207.75	
7570.140	13206.16	
7571.158	13204.38	
7571.700	13203.44	1, 11R (14)
7572.697	13201.70	0, 11P (6)
7573.178	13200.86	
7573.314	13200.63	
7573.690	13199.97	
7574.405	13198.72	
7574.901	13197.86	
7575.380	13197.02	
7576.216	13195.57	0, 9P (26)
7576.967	13194.26	
7577.483	13193.36	
7579.781	13189.36	
7580.086	13188.83	0, 10P (19)
7580.546	13188.03	1, 11P (12)
7580.736	13187.70	
7580.940	13187.35	
7581.508	13186.36	
7581.863	13185.74	
7582.101	13185.33	
7582.509	13184.62	
7583.021	13183.73	
7584.124	13181.81	
7584.943	13180.39	
7585.269	13179.82	
7585.976	13178.59	2, 10P (25)
7586.302	13178.03	
7587.525	13175.90	
7589.332	13172.76	
7589.733	13172.07	0, 11R (9)
7591.000	13169.87	
7591.408	13169.16	
7591.648	13168.75	
7592.058	13168.03	
7592.901	13166.57	
7593.761	13165.08	
7593.994	13164.68	
7594.214	13164.30	
7594.983	13162.96	0, 11P (7)
7595.519	13162.03	
7595.966	13161.26	
7596.919	13159.61	
7597.032	13159.41	
7597.736	13158.19	0, 10R (21)
7597.947	13157.83	
7598.434	13156.99	
7599.101	13155.83	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7599.756	13154.70	
7600.237	13153.86	
7600.606	13153.23	
7601.347	13151.94	
7601.722	13151.29	
7602.296	13150.30	
7602.944	13149.18	
7604.068	13147.24	
7604.841	13145.90	
7605.316	13145.08	
7605.835	13144.18	
7606.576	13142.90	
7609.049	13138.63	
7609.178	13138.41	
7609.728	13137.46	1, 11R (15)
7610.827	13135.56	
7611.114	13135.07	
7611.654	13134.13	
7612.395	13132.86	
7613.137	13131.58	
7613.549	13130.86	
7613.817	13130.40	
7614.329	13129.52	
7614.616	13129.03	0, 9R (28)
7615.238	13127.95	0, 11R (10)
7615.587	13127.35	
7616.781	13125.29	
7618.162	13122.91	1, 11P (13)
7620.195	13119.41	0, 11P (8)
7620.531	13118.83	
7621.233	13117.63	
7621.630	13116.94	
7622.182	13115.99	
7622.417	13115.59	
7622.942	13114.69	
7624.048	13112.78	
7624.721	13111.63	
7625.059	13111.04	
7625.872	13109.65	
7626.505	13108.56	
7628.940	13104.37	
7629.544	13103.34	
7630.206	13102.20	
7630.547	13101.61	
7631.222	13100.46	
7631.724	13099.59	
7634.083	13095.55	
7635.308	13093.45	
7635.871	13092.48	
7637.160	13090.27	
7638.373	13088.19	
7642.489	13081.14	0, 10P (20)
7643.019	13080.23	
7643.968	13078.61	0, 11R (11)

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7644.303	13078.04	
7644.814	13077.16	
7646.087	13074.99	
7647.986	13071.74	
7648.420	13071.00	0, 11P (9)
7648.881	13070.21	
7649.340	13069.43	
7649.904	13068.46	
7650.298	13067.79	
7650.621	13067.24	
7650.942	13066.69	1, 11R (16)
7651.620	13065.53	
7652.424	13064.16	
7653.042	13063.10	
7654.044	13061.39	
7654.442	13060.71	
7654.956	13059.84	
7655.721	13058.53	
7655.951	13058.14	
7657.068	13056.24	2, 10P (26)
7657.732	13055.10	
7658.816	13053.26	1, 11P (14)
7659.130	13052.72	
7660.217	13050.87	0, 9P (27)
7660.874	13049.75	
7661.700	13048.34	
7662.222	13047.45	0, 10R (22)
7662.856	13046.37	
7663.576	13045.15	
7664.880	13042.93	K I
7666.774	13039.71	
7667.537	13038.41	
7668.066	13037.51	
7668.782	13036.29	
7679.709	13017.74	0, 11P (10)
7681.042	13015.48	
7681.778	13014.24	
7682.161	13013.59	
7682.640	13012.78	
7683.410	13011.47	
7687.556	13004.46	
7688.169	13003.42	
7688.703	13002.52	
7689.308	13001.49	
7690.122	13000.12	
7690.411	12999.63	
7690.805	12998.96	
7691.927	12997.07	
7692.815	12995.57	
7693.892	12993.75	
7695.076	12991.75	
7695.352	12991.28	1, 11R (17)
7695.696	12990.70	
7696.515	12989.32	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7697.223	12988.12	
7697.622	12987.45	
7698.111	12986.63	
7698.922	12985.26	K I
7699.764	12983.84	
7700.343	12982.86	0, 9R (29)
7700.799	12982.09	
7700.934	12981.87	
7701.792	12980.42	
7702.241	12979.66	
7702.482	12979.26	1, 11P (15)
7703.937	12976.81	
7704.190	12976.38	
7704.615	12975.66	
7704.965	12975.07	
7705.370	12974.39	
7706.142	12973.09	
7707.390	12970.99	
7707.710	12970.45	
7708.605	12968.95	0, 10P (21)
7709.938	12966.70	
7711.407	12964.23	0, 11R (13)
7711.976	12963.28	
7712.703	12962.06	
7714.176	12959.58	0, 11P (11)
7714.795	12958.54	
7715.624	12957.15	
7716.397	12955.85	
7716.973	12954.88	
7717.234	12954.45	
7718.006	12953.15	
7718.553	12952.23	
7718.696	12951.99	
7718.831	12951.76	
7720.156	12949.54	
7720.449	12949.05	
7720.863	12948.36	
7721.002	12948.12	
7722.032	12946.40	
7723.636	12943.71	
7723.815	12943.41	
7724.596	12942.10	
7725.280	12940.95	
7725.499	12940.59	
7726.002	12939.74	
7726.422	12939.04	
7727.388	12937.42	
7727.982	12936.43	
7728.459	12935.63	
7729.131	12934.51	
7729.618	12933.69	
7730.031	12933.00	
7730.316	12932.52	0, 10R (23)
7730.599	12932.05	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7731.138	12931.15	
7731.533	12930.49	
7732.638	12928.64	
7732.999	12928.04	
7734.346	12925.78	
7735.021	12924.66	
7735.840	12923.29	
7736.249	12922.61	
7736.608	12922.01	
7736.978	12921.39	
7738.401	12919.01	
7738.813	12918.32	
7739.154	12917.76	
7741.164	12914.40	
7741.808	12913.33	
7743.016	12911.31	1, 11R (18)
7743.438	12910.61	
7743.521	12910.47	
7744.493	12908.85	
7745.087	12907.86	
7745.558	12907.07	
7746.315	12905.81	
7747.156	12904.41	
7747.871	12903.22	
7748.051	12902.92	0, 9P (28)
7748.880	12901.54	
7749.306	12900.83	1, 11P (16)
7749.626	12900.30	
7750.251	12899.26	0, 11R (14)
7750.881	12898.21	
7751.148	12897.77	
7751.550	12897.10	
7751.776	12896.72	0, 11P (12)
7752.480	12895.55	
7752.935	12894.79	
7753.121	12894.48	
7754.413	12892.34	
7754.803	12891.69	
7755.103	12891.19	
7756.901	12888.20	
7757.315	12887.51	
7757.791	12886.72	
7758.429	12885.66	
7759.212	12884.36	
7759.718	12883.52	
7760.682	12881.92	
7762.297	12879.24	
7762.477	12878.94	
7763.661	12876.98	
7764.766	12875.15	
7766.146	12872.86	
7766.870	12871.66	
7767.451	12870.70	
7768.524	12868.92	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V''X (J)
7769.055	12868.04	
7770.000	12866.47	
7770.355	12865.89	
7772.010	12863.15	
7772.214	12862.81	
7772.793	12861.85	
7773.820	12860.15	
7775.444	12857.46	
7776.240	12856.15	
7776.519	12855.69	
7777.454	12854.14	
7777.772	12853.62	
7778.400	12852.58	0, 10P (22)
7780.205	12849.60	
7781.050	12848.20	
7781.459	12847.53	
7782.093	12846.48	
7783.495	12844.17	
7783.981	12843.36	
7786.833	12838.66	
7788.000	12836.74	
7789.758	12833.84	0, 9R (30)
7790.221	12833.08	
7790.600	12832.45	
7792.007	12830.13	
7792.143	12829.91	
7792.571	12829.21	0, 11R (15)
7792.764	12828.89	0, 11P (13)
7794.021	12826.82	1, 11R (19)
7794.252	12826.44	
7794.758	12825.61	
7795.895	12823.74	
7796.032	12823.51	
7798.083	12820.14	
7798.909	12818.78	
7799.367	12818.03	1, 11P (17)
7800.257	12816.56	
7800.410	12816.31	
7800.935	12815.45	
7801.299	12814.85	
7802.103	12813.53	0, 10R (24)
7802.394	12813.05	
7803.584	12811.10	
7805.232	12808.40	
7805.604	12807.78	
7806.319	12806.61	
7806.703	12805.98	
7808.495	12803.04	
7809.225	12801.85	
7810.765	12799.32	
7811.204	12798.60	
7811.720	12797.76	
7812.521	12796.45	
7812.753	12796.07	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V''X (J)
7813.394	12795.02	
7813.793	12794.36	
7815.061	12792.29	
7817.176	12788.82	
7818.393	12786.83	
7819.134	12785.62	
7820.804	12782.89	
7821.300	12782.08	
7821.809	12781.25	
7823.344	12778.74	
7824.563	12776.75	
7824.900	12776.20	
7825.190	12775.73	
7825.700	12774.90	
7826.367	12773.81	
7827.239	12772.38	
7828.698	12770.00	
7829.475	12768.74	
7830.283	12767.42	
7830.678	12766.77	
7831.162	12765.98	
7831.989	12764.64	
7832.188	12764.31	
7833.318	12762.47	
7833.553	12762.09	
7834.100	12761.20	
7835.781	12758.46	
7836.094	12757.95	
7837.160	12756.21	0, 11P (14)
7838.424	12754.16	0, 11R (16)
7839.150	12752.98	
7839.387	12752.59	
7839.758	12751.99	0, 9P (29)
7842.128	12748.13	
7842.836	12746.98	
7843.026	12746.67	
7844.967	12743.52	
7845.286	12743.00	
7845.701	12742.33	
7846.081	12741.71	
7846.747	12740.63	
7848.328	12738.06	1, 11R (20)
7850.463	12734.60	
7851.495	12732.93	
7852.044	12732.04	0, 10P (23)
7852.639	12731.07	1, 11P (18)
7853.844	12729.12	
7854.258	12728.45	
7854.648	12727.81	
7856.033	12725.57	
7856.299	12725.14	
7857.624	12722.99	
7858.066	12722.28	
7860.726	12717.97	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7861.951	12715.99	
7864.675	12711.59	
7865.017	12711.03	
7865.834	12709.71	
7866.743	12708.25	
7867.238	12707.45	
7867.889	12706.39	
7869.563	12703.69	1, 12R (4)
7869.821	12703.28	
7871.540	12700.50	
7872.034	12699.70	
7872.360	12699.18	
7873.156	12697.89	
7873.756	12696.93	
7876.374	12692.71	
7877.563	12690.79	0, 0R (25)
7877.873	12690.29	
7878.616	12689.10	
7879.278	12688.03	1, 12R (5)
7880.172	12686.59	
7881.886	12683.83	
7882.803	12682.35	0, 9R (31)
7885.012	12678.80	0, 11P (15)
7885.653	12677.77	
7886.071	12677.10	
7887.382	12674.99	
7887.889	12674.18	0, 11R (17)
7889.638	12671.37	
7890.148	12670.55	
7891.881	12667.77	1, 12R (6)
7894.233	12663.99	
7894.453	12663.64	
7896.468	12660.41	
7896.764	12659.93	
7898.600	12656.99	
7899.553	12655.46	
7900.067	12654.64	
7900.473	12653.99	
7901.502	12652.34	1, 12P (4)
7901.905	12651.70	
7902.117	12651.36	
7902.711	12650.41	
7902.964	12650.00	
7904.099	12648.19	
7907.215	12643.20	1, 12R (7)
7908.478	12641.18	
7908.822	12640.63	
7909.263	12639.93	1, 11P (19)
7911.350	12636.59	
7911.717	12636.01	
7913.794	12632.69	
7914.276	12631.92	
7915.988	12629.19	
7920.589	12621.85	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
7922.571	12618.70	
7923.295	12617.54	
7923.841	12616.67	
7924.902	12614.98	
7925.353	12614.27	1, 12R (8)
7925.871	12613.44	
7926.414	12612.58	
7926.639	12612.22	
7927.378	12611.04	
7927.717	12610.50	
7928.019	12610.02	
7929.512	12607.65	0, 10P (24)
7930.347	12606.32	
7931.000	12605.28	
7932.171	12603.42	
7933.078	12601.98	
7934.060	12600.42	
7934.970	12598.98	
7935.374	12598.34	0, 9P (30)
7935.917	12597.47	
7936.464	12596.61	0, 11P (16)
7936.831	12596.02	
7937.233	12595.38	
7938.016	12594.14	1, 12P (6)
7938.233	12593.80	
7938.898	12592.74	
7941.003	12589.41	0, 11R (18)
7942.571	12586.92	
7943.312	12585.75	
7944.286	12584.20	
7945.648	12582.05	
7946.413	12580.83	1, 12R (9)
7946.885	12580.09	
7947.570	12579.00	
7948.270	12577.90	
7949.034	12576.69	
7950.366	12574.58	
7951.487	12572.81	
7951.863	12572.21	
7952.310	12571.51	
7952.810	12570.71	
7954.332	12568.31	
7956.189	12565.38	
7956.730	12564.52	0, 10R (26)
7957.015	12564.07	
7957.796	12562.84	
7958.942	12561.03	
7959.788	12559.69	
7960.173	12559.09	1, 12P (7)
7961.135	12557.57	
7961.555	12556.91	
7962.034	12556.15	
7962.423	12555.54	
7962.931	12554.74	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
7965.946	12549.99	
7966.235	12549.53	
7966.599	12548.96	
7967.170	12548.06	
7967.567	12547.43	
7968.710	12545.63	
7969.282	12544.73	1, 11P (20)
7970.428	12542.93	1, 12R (10)
7972.191	12540.15	
7972.452	12539.74	
7972.826	12539.16	
7974.243	12536.93	
7974.663	12536.27	
7975.555	12534.87	
7975.882	12534.35	
7977.058	12532.50	
7977.455	12531.88	
7977.927	12531.14	
7979.480	12528.70	0, 9R (32)
7980.347	12527.34	
7983.638	12522.17	
7984.421	12520.95	
7984.715	12520.48	
7985.160	12519.79	1, 12P (8)
7985.593	12519.11	
7987.486	12516.14	
7987.915	12515.47	
7988.410	12514.69	
7991.517	12509.83	0, 11P (17)
7992.286	12508.62	
7994.073	12505.83	
7994.409	12505.30	
7995.407	12503.74	
7997.374	12500.67	1, 12R (11)
7997.759	12500.06	0, 11R (19)
7998.077	12499.57	
7998.565	12498.81	
7999.269	12497.71	
8000.584	12495.65	
8001.572	12494.11	
8005.759	12487.57	
8006.520	12486.39	
8006.818	12485.92	
8007.268	12485.22	
8007.890	12484.25	
8008.042	12484.01	
8010.843	12479.65	0, 10P (25)
8011.641	12478.41	
8013.000	12476.29	1, 12P (9)
8013.406	12475.66	
8014.544	12473.89	
8017.684	12469.00	
8018.636	12467.52	
8021.098	12463.69	

WAVELENGTH	WAVENUMBER	ASSIGNMENT
AIR, (A)	(CM-1)	V', V'' X (J)
8022.347	12461.75	
8023.035	12460.68	
8026.949	12454.61	
8027.351	12453.98	1, 12R (12)
8027.966	12453.03	
8028.712	12451.87	
8029.366	12450.86	
8032.751	12445.61	
8033.020	12445.20	
8033.760	12444.05	
8034.270	12443.26	
8034.847	12442.37	0, 9P (31)
8038.206	12437.17	
8039.630	12434.96	0, 10R (27)
8040.222	12434.05	
8040.509	12433.60	
8041.263	12432.44	
8043.758	12428.58	1, 12P (10)
8045.821	12425.40	
8046.561	12424.25	
8047.352	12423.03	
8048.519	12421.23	
8049.665	12419.46	
8050.287	12418.50	0, 11P (18)
8052.903	12414.47	
8058.312	12406.14	0, 11R (20)
8058.597	12405.70	
8059.790	12403.86	
8060.595	12402.62	
8061.666	12400.97	
8062.445	12399.78	
8065.305	12395.38	
8066.041	12394.25	
8066.640	12393.33	
8068.700	12390.16	
8071.607	12385.70	
8072.075	12384.98	
8072.822	12383.84	
8078.871	12374.57	
8079.793	12373.16	
8080.793	12371.62	
8085.285	12364.75	
8086.199	12363.35	
8086.926	12362.23	
8087.922	12360.71	
8090.395	12356.94	
8093.598	12352.05	
8094.266	12351.03	
8096.246	12348.00	0, 10P (26)
8096.742	12347.25	
8097.301	12346.39	
8098.633	12344.37	
8101.023	12340.73	
8101.180	12340.48	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
8101.809	12339.53	
8102.020	12339.21	
8102.703	12338.16	
8104.762	12335.03	
8105.840	12333.39	
8107.340	12331.11	
8108.707	12329.03	
8109.395	12327.98	
8114.633	12320.03	
8116.125	12317.77	
8116.547	12317.13	
8126.441	12302.13	Li I
8141.570	12279.27	
8145.156	12273.86	
8149.523	12267.29	
8150.125	12266.38	
8150.941	12265.14	
8157.570	12255.18	
8158.105	12254.38	
8158.707	12253.48	
8159.672	12252.03	
8160.363	12250.98	
8162.891	12247.20	
8163.543	12246.21	
8164.730	12244.44	
8165.621	12243.10	
8166.953	12241.11	
8167.422	12240.39	
8168.246	12239.16	
8168.715	12238.46	
8169.289	12237.60	
8170.160	12236.30	
8171.750	12233.91	
8175.918	12227.68	
8176.309	12227.10	
8179.109	12222.91	
8179.957	12221.64	
8183.375	12216.54	Na I
8184.500	12214.86	
8185.164	12213.87	0, 10P (27)
8185.832	12212.87	
8189.180	12207.88	
8189.930	12206.75	
8190.539	12205.86	
8190.973	12205.21	
8192.922	12202.30	
8194.301	12200.25	
8194.941	12199.30	Na I
8196.977	12196.27	
8198.480	12194.03	
8199.098	12193.12	
8199.410	12192.64	
8200.074	12191.66	
8201.555	12189.46	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
8203.051	12187.23	
8204.055	12185.75	
8206.148	12182.64	
8206.852	12181.59	
8207.742	12180.27	
8208.855	12178.62	
8210.258	12176.54	
8212.574	12173.10	
8213.609	12171.57	
8213.926	12171.10	
8214.816	12169.78	
8217.598	12165.66	
8218.066	12164.96	
8218.988	12163.61	
8220.133	12161.91	
8221.527	12159.85	
8221.941	12159.23	
8222.840	12157.91	
8223.191	12157.39	
8224.258	12155.80	
8225.137	12154.52	
8226.262	12152.85	
8227.074	12151.64	
8228.203	12149.98	
8228.867	12149.00	
8229.656	12147.84	
8231.352	12145.34	
8233.129	12142.71	
8233.773	12141.75	
8233.980	12141.46	
8235.305	12139.50	
8237.020	12136.98	
8238.199	12135.23	
8239.480	12133.35	
8240.371	12132.04	
8241.020	12131.09	
8242.602	12128.75	
8243.215	12127.86	
8245.332	12124.73	
8245.762	12124.11	
8246.695	12122.73	
8247.051	12122.21	
8250.383	12117.32	
8251.359	12115.89	
8253.297	12113.04	
8255.281	12110.13	
8256.664	12108.10	
8257.633	12106.68	
8260.875	12101.93	
8261.684	12100.75	
8262.352	12099.77	
8263.754	12097.71	
8265.332	12095.41	
8265.969	12094.46	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
8267.059	12092.88	
8270.496	12087.85	
8272.469	12084.96	
8273.340	12083.70	
8274.305	12082.28	
8275.227	12080.94	
8276.137	12079.61	
8277.207	12078.05	
8278.328	12076.41	
8279.336	12074.94	
8280.324	12073.50	
8281.848	12071.29	
8283.805	12068.43	
8284.066	12068.05	
8285.000	12066.69	
8285.563	12065.87	
8286.270	12064.84	
8287.137	12063.57	
8287.637	12062.85	
8289.641	12059.93	
8290.012	12059.39	
8291.168	12057.71	
8292.027	12056.46	
8293.563	12054.23	
8294.801	12052.43	
8295.832	12050.94	
8296.527	12049.93	
8298.336	12047.30	
8301.488	12042.73	
8304.934	12037.73	
8306.039	12036.13	
8306.895	12034.89	
8308.398	12032.71	
8309.609	12030.96	
8310.621	12029.48	
8311.738	12027.87	
8312.613	12026.61	
8313.250	12025.69	
8313.938	12024.69	
8315.082	12023.04	
8315.867	12021.89	
8316.402	12021.13	
8317.223	12019.94	
8319.254	12017.00	
8320.828	12014.73	
8321.695	12013.48	
8322.770	12011.93	
8323.605	12010.73	
8325.188	12008.44	
8326.008	12007.25	
8328.625	12003.48	
8329.219	12002.63	
8330.898	12000.21	
8331.539	11999.29	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
8333.438	11996.55	
8335.738	11993.23	
8337.023	11991.39	
8339.746	11987.48	
8340.465	11986.45	
8340.680	11986.14	
8342.891	11982.96	
8344.555	11980.57	
8344.902	11980.07	
8349.633	11973.29	
8350.352	11972.25	
8352.293	11969.46	
8353.172	11968.21	
8356.867	11962.91	
8357.918	11961.41	
8359.902	11958.57	
8361.727	11955.96	
8362.762	11954.48	
8397.008	11905.73	
8397.969	11904.37	
8398.355	11903.82	
8399.957	11901.55	
8400.453	11900.85	
8401.559	11899.28	
8402.234	11898.32	
8402.410	11898.07	
8403.426	11896.64	
8408.047	11890.10	
8408.531	11889.41	
8409.609	11887.89	
8410.320	11886.89	
8412.059	11884.43	
8413.754	11882.04	
8415.090	11880.14	
8417.301	11877.03	
8421.680	11870.86	
8423.855	11867.79	
8425.148	11865.96	
8428.180	11861.70	
8429.480	11859.87	
8431.555	11856.95	
8432.859	11855.12	
8433.215	11854.62	
8434.750	11852.46	
8436.020	11850.68	
8436.898	11849.44	
8437.148	11849.09	
8437.898	11848.04	
8438.758	11846.82	
8439.285	11846.09	
8439.707	11845.50	
8439.922	11845.20	
8440.637	11844.19	
8441.383	11843.14	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
8443.742	11839.84	
8444.617	11838.61	
8446.559	11835.89	
8447.668	11834.34	
8448.637	11832.98	
8449.207	11832.18	
8449.645	11831.57	
8451.133	11829.48	
8452.016	11828.25	
8452.781	11827.18	
8454.500	11824.77	
8454.930	11824.16	
8455.316	11823.63	
8456.305	11822.25	
8458.133	11819.69	
8459.461	11817.84	
8459.895	11817.23	
8460.512	11816.37	
8463.555	11812.12	
8464.383	11810.96	
8464.695	11810.53	
8465.500	11809.41	
8466.793	11807.61	
8467.367	11806.80	
8468.195	11805.64	
8468.922	11804.64	
8469.566	11803.73	
8470.102	11802.98	
8470.738	11802.10	
8471.609	11800.89	
8472.223	11800.04	
8474.363	11797.05	
8474.723	11796.55	
8475.199	11795.89	
8475.426	11795.57	
8476.352	11794.29	
8479.441	11789.98	
8480.035	11789.16	
8481.281	11787.43	
8482.430	11785.84	
8483.648	11784.14	
8485.992	11780.89	
8486.496	11780.19	
8487.211	11779.20	
8489.523	11775.98	
8490.520	11774.61	
8491.355	11773.45	
8493.430	11770.57	
8495.246	11768.05	
8499.520	11762.14	
8500.164	11761.25	
8503.992	11755.95	
8508.125	11750.23	
8508.930	11749.13	

WAVELENGTH AIR, (A)	WAVENUMBER (CM-1)	ASSIGNMENT V', V'' X (J)
8528.035	11722.80	
8529.191	11721.21	
8529.641	11720.60	
8530.082	11720.00	
8533.266	11715.63	
8533.801	11714.89	
8535.875	11712.04	
8537.660	11709.59	
8540.664	11705.48	
8541.559	11704.25	
8542.250	11703.30	
8544.078	11700.80	
8546.977	11696.82	
8547.594	11695.98	
8548.367	11694.93	
8549.957	11692.75	
8551.352	11690.85	
8551.906	11690.09	
8553.531	11687.87	
8556.742	11683.48	
8557.527	11682.41	
8559.695	11679.45	
8561.098	11677.53	
8562.168	11676.07	
8565.086	11672.10	
8565.402	11671.66	
8566.031	11670.80	
8567.426	11668.91	
8569.691	11665.82	
8572.762	11661.64	
8574.840	11658.82	
8575.852	11657.45	
8577.559	11655.13	
8579.289	11652.78	
8579.801	11652.07	
8581.383	11649.93	
8584.043	11646.32	
8603.457	11620.05	
8605.000	11617.96	
8607.141	11615.07	
8607.895	11614.05	
8608.688	11612.98	
8609.707	11611.61	
8613.785	11606.11	
8614.617	11604.98	
8615.332	11604.03	
8617.648	11600.91	
8618.719	11599.46	
8621.750	11595.39	
8622.035	11595.00	
8623.090	11593.59	
8624.641	11591.50	
8626.148	11589.48	
8642.496	11567.55	