TABLE 2 (3). HARTREE-FOCK FUNCTIONS FOR POSITIVE IONS.

PHOSPHORUS K(2)L(8)3S(2)3P(2) -3P
T.E.=-0.34034959D+03 P.E.=-0.68C69365D+03 K.E.= 0.34034406D+03 V.T.=-0.20000163D+01

S	1S	2S	3S	P	2P	3P
BASIS/ORB E	-80.38155	-7.91509	-1.03401	BASIS/ORB E	-5.80262	-0.72003
1S 15.29030	0.90282	-0.24446	0.06967	2P 6.46199	0.66290	-0.17746
1S 24.54860	0.02003	-0.00585	0.00208	2P 12.31770	0.03898	-0.00971
2S 5.68698	0.00496	0.93148	-0.29598	3P 2.02237	0.00931	0.58876
2S 13.77400	0.09302	-0.12784	0.04078	3P 1.34371	-0.00224	0.48308
3S 2.40272	0.00062	0.00160	0.60037	3P 4.84290	0.37205	-0.10429
3S 1.62738	-0.00029	-0.00011	0.51897			
3S 4.76941	-0.00182	0.18734	-0.12664			

SULFUR K(2)L(8)3S(2)3P(3) -4S
T.E.=-0.39717296D+03 P.E.=-0.79434200D+03 K.E.= 0.39716904D+03 V.T.=-0.20000099D+01

S	1S	2S	3S	P	2P	3P
BASIS/ORB E	-92.43411	-9.42767	-1.24006	BASIS/ORB E	-7.10393	-0.86169
1S 16.61110	0.87854	-0.23309	0.06764	2P 6.87921	0.68387	-0.19398
1S 24.51550	0.02262	-0.01175	0.00501	2P 12.94140	0.04332	-0.01134
2S 6.02289	0.00411	0.97585	-0.32790	3P 2.33228	0.00627	0.57242
2S 15.00660	0.11829	-0.14C80	0.04816	3P 1.53607	-0.00094	0.50786
3S 2.72748	0.00037	0:00C85	0.60312	3P 5.26386	0.34162	-0.10538
3S 1.82072	-0.00015	0.00051	0.53665			
3S 5.04320	-0.00137	0.13894	-0.12860			

CHLORINE K(2)L(8)3S(2)3P(4) - 3P
T.E.=-0.45904841D+03 P.E.=-0.91809217D+03 K.E.= 0.45904376D+03 V.T.=-0.20000101D+01

S	1S	2S	3S	P	2P	3P
BASIS/ORB E	-105.36099	-11.07623	-1.47010	BASIS/ORB E	-8.53913	-0.93879
1S 16.41090	0.91179	-0.26596	-0.08505	2P 7.49526	0.67402	-0.19950
1S 23.56000	0.06669	-0.01276	-0.00283	2P 13.71160	0.04201	-0.01120
2S 7.13038	0.00610	0.82157	0.27571	3P 2.64828	0.00879	0.57298
2S 14.87010	0.02736	-0.12810	-0.04157	3P 1.65706	-0.00104	0.52126
3S 2.93941	0.00050	0.00866	-0.63782	3P 5.82970	0.34845	-0.11454
3S 1.97300	-0.00025	-0.00165	-0.49262			
3S 6.16710	-0.00208	0.32495	0.19392			

ARGON K(2)L(8)3S(2)3P(5) - 2P
T.E.=-0.52627435D+03 P.E.=-0.10525452D+04 K.E.= 0.52627086D+03 V.T.=-0.20000066D+01

S	1S	2S	3S	P	2P	3P
BASIS/ORB E	-119.13381	-12.83628	-1.71135	BASIS/ORB E	-10.08383	-1.04543
1S 18.25010	0.92239	0.26244	0.08447	2P 7.95043	0.68234	-0.20940
1S 29.44590	0.01582	0.00433	0.00137	2P 14.19760	0.04695	-0.01291
2S 7.26099	0.00286	-0.90535	-0.31873	3P 2.95647	0.00922	0.57519
2S 16.15690	0.07578	0.14294	0.04957	3P 1.79986	-0.00048	0.52964
3S 3.29566	0.00003	-0.00758	0.61185	3P 6.30014	0.33055	-0.11664
3S 2.18528	-0.00003	0.00072	0.53681			
3S 6.40657	-0.00068	-0.22485	-0.17615			

POTASSIUM K(2)L(8)3S(2)3P(6) - 1S
T.E.=-0.59901730D+03 P.E.=-0.11980285D+04 K.E.= 0.59901120D+03 V.T.=-0.20000102D+01

S	1S	2S	3S	P	2P	3P
BASIS/ORB E	-133.75338	-14.70914	-1.96444	BASIS/ORB E	-11.73922	-1.17109
1S 18.98260	0.93931	-0.27701	0.08889	2P 8.61735	0.67152	-0.20999
1S 31.39050	0.01789	-0.00171	0.00173	2P 15.19580	0.04224	-0.01178
2S 7.30079	0.00420	1.04565	-0.39368	3P 3.24817	0.01009	0.58221
2S 16.70010	0.05305	-0.13733	0.05415	3P 1.94563	-0.00196	0.52976
3S 3.88331	0.00135	-0.00664	0.64114	3P 6.88378	0.34429	-0.12638
3S 2.40881	-0.00037	0.00268	0.61485			
3S 5.70995	-0.00255	0.08655	-0.21575			

See page 183 for Explanation of Tables and Notes for Tables 32, 42, and 43