$$\langle HF|h_{i}c_{m}a_{a}^{\dagger}a_{d}a_{d}a_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle = \langle HF|h_{i}c_{m}a_{a}^{\dagger}h_{b}c_{d}h_{c}^{\dagger}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}c_{a}^{\dagger}h_{b}h_{d}^{\dagger}c_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}c_{b}h_{k}^{\dagger}c_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}h_{b}^{\dagger}c_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}h_{b}^{\dagger}c_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{c}^{\dagger}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}c_{a}^{\dagger}h_{b}c_{d}h_{c}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}c_{a}^{\dagger}h_{b}h_{d}^{\dagger}c_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}c_{a}^{\dagger}h_{b}h_{d}^{\dagger}c_{c}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}c_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{c}^{\dagger}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{b}^{\dagger}c_{b}^{\dagger}h_{k}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{b}^{\dagger}c_{b}^{\dagger}h_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{b}^{\dagger}c_{b}^{\dagger}h_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{b}^{\dagger}c_{b}^{\dagger}h_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{b}h_{d}^{\dagger}h_{c}^{\dagger}c_{b}^{\dagger}h_{b}^{\dagger}|HF\rangle + \langle HF|h_{i}c_{m}h_{a}h_{$$