1,2_shiftS

1C
2
S 3 R 1 2 S 2 S 3 R 1 C

1,4_Cyclic_birad_scission

2R 1 R 3 R 3 R 2 R 3 R $^$

intra_substitutionCS_cyclicization
3
R $^{\circ}$ C $^{\circ}$ C $^{\circ}$ $^{\circ$

 $Singlet_Carbene_Intra_Disproportionation$

$$\bigcirc ^{1}C$$
 $\bigcirc ^{2}C$ $\bigcirc ^{3}H$ $\bigcirc ^{3}H$ $\bigcirc ^{1}C$ $\bigcirc ^{2}C$

 $Intra_5_membered_conjugated_C=C_C=C_addition$

$$^{1}C = ^{5}C = ^{4}C - ^{3}C = ^{2}C$$

Intra_Diels_alder_monocyclic

$$C = {}^{2}C - {}^{3}C = {}^{4}C - {}^{5}C = {}^{6}C$$

 $Concerted_Intra_Diels_alder_monocyclic_1, 2_shiftH$

$$C = {}^{2}C - {}^{3}C = {}^{4}C - {}^{5}C = {}^{6}C - {}^{7}H$$

$${}^{1}C = {}^{2}C - {}^{3}C$$
 ${}^{1}C = {}^{2}C = {}^{3}C$
 ${}^{6}C = {}^{5}C - {}^{4}C$
 ${}^{6}C = {}^{5}C = {}^{4}C$