1. $\vdash \Big(\{Q \supset [(R \wedge T) \vee (S \vee L)]\} \supset \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\} \Big) \vee \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\}$

2. $\vdash \neg \Big[\neg \Big(\{Q \supset [(R \wedge T) \vee (S \vee L)]\} \supset \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\} \Big) \wedge \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \Big]$

3. $\neg \Big(\{Q \supset [(R \wedge T) \vee (S \vee L)]\} \supset \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\} \Big) \wedge \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg \Big(\{Q \supset [(R \wedge T) \vee (S \vee L)]\} \supset \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\} \Big) \wedge \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

4. $\neg \Big(\{Q \supset [(R \wedge T) \vee (S \vee L)]\} \supset \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\} \Big), \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg \Big(\{Q \supset [(R \wedge T) \vee (S \vee L)]\} \supset \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\} \Big), \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

5. $Q \supset [(R \wedge T) \vee (S \vee L)], \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad Q \supset [(R \wedge T) \vee (S \vee L)], \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

6. $\neg Q, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad (R \wedge T) \vee (S \vee L), \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg Q, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad (R \wedge T) \vee (S \vee L), \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

7. $\neg Q, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad R \wedge T, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad S \vee L, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg Q \vdash \neg Q$

$\quad R \wedge T, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad S \vee L, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

8. $\neg Q, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad R \wedge T, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad S, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad L, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg Q \vdash \neg Q$

$\quad R \wedge T, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad S, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad L, \neg \{[(T \wedge M) \supset (R \supset M)] \vee [(Q \wedge Q) \supset (Q \wedge S)]\}, \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

9. $\neg Q, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad R \wedge T, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad S, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad L, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg Q \vdash \neg Q$

$\quad R \wedge T, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad S, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad L, \neg [(T \wedge M) \supset (R \supset M)], \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

10. $\neg Q, T \wedge M, R, \neg M, Q \wedge Q, \neg (Q \wedge S), \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad R \wedge T, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad S, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad L, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg Q \vdash \neg Q$

$\quad R \wedge T, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad S, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad L, T \wedge M, \neg (R \supset M), \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

11. $\neg Q, T \wedge M, R, \neg M, Q \wedge Q, \neg (Q \wedge S), \neg [(Z \vee R) \vee (Y \wedge P)], \neg \neg W \vdash Q$

$\quad R \wedge T, T \wedge M, R, \neg M, Q \wedge Q, \neg (Q \wedge S), \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad S, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad L, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash Q$

$\quad \neg Q \vdash \neg Q$

$\quad R \wedge T, T \wedge M, R, \neg M, Q \wedge Q, \neg (Q \wedge S), \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad S, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$

$\quad L, T \wedge M, R, \neg M, \neg [(Q \wedge Q) \supset (Q \wedge S)], \neg \{[(Z \vee R) \vee (Y \wedge P)] \vee \neg W\} \vdash \neg Q$