$$C_{qq}^{(8)\,11\_12\_13\_14} \to -\frac{1}{m_\oplus^2}\, s_Y^2\, \overline{Yd}^{1213}\, Yd^{1114} + \hbar\left(-\frac{1}{72}\,\frac{1}{m_\oplus^2}\left(s_Y^2\left(27\,\overline{Yd}^{pr}\,\overline{Yd}^{1213}\left(Yd^{p14}\,Yd^{11r}\left(1+s_Y^2\right)-8\,c_Y^2\,Yd^{pr}\,Yd^{1114}\right)+\right.\right.\right.$$
$$9\,Yd^{1114}\left(3\,\overline{Yd}^{r13}\,\overline{Yd}^{12p}\,Yd^{rp}\left(1+s_Y^2\right)-\overline{Yd}^{p13}\,\overline{Yu}^{12r}\,Yu^{pr}\left(-1+c_Y^2\right)\right)+$$
$$\overline{Yd}^{1213}\left(Yd^{1114}\left(5\,g_{L}^{\,2}+27\,g_{2}^{\,2}+96\,g_{3}^{\,2}\right)-9\,Yd^{p14}\,\overline{Yu}^{pr}\,Yu^{11r}\left(-1+c_Y^2\right)\right)+$$
$$16\,g_{3}^{\,2}\,\overline{Yd}^{p13}\,Yd^{p14}\,\delta_{1112}\Big)+8\,g_{3}^{\,2}\left(s_Y^2\,\overline{Yd}^{12p}\,Yd^{11p}+c_Y^2\,\overline{Yu}^{12p}\,Yu^{11p}\right)\delta_{1314}\Big)+$$
$$\frac{2}{3}\,g_{3}^{\,4}\,LF_{3,0}\left[m_{\tilde{}},m_{\tilde{}}\right]\delta_{1112}\,\delta_{1314}+g_{3}^{\,4}\,LF_{4,-1}\left[m_{\tilde{}},m_{\tilde{}}\right]\delta_{1112}\,\delta_{1314}-\frac{16}{15}\,g_{3}^{\,4}\,LF_{5,-2}\left[m_{\tilde{}},m_{\tilde{}}\right]\delta_{1112}\,\delta_{1314}-$$
$$\frac{1}{2}\sum_{p}s_Y\,g_{L}^{\,2}\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\left(2\,s_{2Y}\,c_Y+s_Y\,c_{2Y}\right)LF_{1,0}\left[m_{d}^{\,p}\right]+$$
$$\frac{2}{9}\sum_{p}g_{3}^{\,4}\,LF_{3,0}\left[m_{d}^{\,p}\right]\delta_{1112}\,\delta_{1314}-\frac{5}{12}\sum_{p}g_{3}^{\,4}\,LF_{4,-1}\left[m_{\tilde{}}^{\,p},m_{\tilde{}}\right]\delta_{1112}\,\delta_{1314}+$$
$$\frac{8}{45}\sum_{p}g_{3}^{\,4}\,LF_{5,-2}\left[m_{d}^{\,p}\right]\delta_{1112}\,\delta_{1314}-$$
$$3\,s_Y\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{pr}\,\overline{Yd}^{1213}\,Yd^{pr}\,Yd^{1114}\left(-s_{2Y}\,c_Y+s_Y^3\right)LF_{1,0}\left[m_{d}^{\,r}\right]+$$
$$\frac{1}{2}\sum_{p}s_Y\,g_{L}^{\,2}\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\left(2\,s_{2Y}\,c_Y+s_Y\,c_{2Y}\right)LF_{1,0}\left[m_{e}^{\,p}\right]+$$
$$s_Y\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\,\overline{Ye}^{pr}\,Ye^{pr}\left(s_{2Y}\,c_Y-s_Y^3\right)LF_{1,0}\left[m_{e}^{\,r}\right]+$$
$$\frac{1}{2}\,s_Y\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\left(2\,\overline{Ye}^{pr}\,Ye^{pr}\left(s_{2Y}\,c_Y-s_Y^3\right)+\sum_{p}g_{L}^{\,2}\left(2\,s_{2Y}\,c_Y+s_Y\,c_{2Y}\right)\right)LF_{1,0}\left[m_{t}^{\,p}\right]-$$
$$\frac{1}{2}\,s_Y\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\left(6\,\overline{Yd}^{pr}\,Yd^{pr}\left(-s_{2Y}\,c_Y+s_Y^3\right)+6\,c_Y\,\overline{Yu}^{pr}\,Yu^{pr}\left(s_{2Y}+s_Y\,c_Y\right)+\right.$$
$$\left.\sum_{p}g_{L}^{\,2}\left(2\,s_{2Y}\,c_Y+s_Y\,c_{2Y}\right)\right)LF_{1,0}\left[m_{q}^{\,p}\right]+\frac{4}{9}\sum_{p}g_{3}^{\,4}\,LF_{3,0}\left[m_{q}^{\,p}\right]\delta_{1112}\,\delta_{1314}-$$
$$\frac{5}{6}\sum_{p}g_{3}^{\,4}\,LF_{4,-1}\left[m_{q}^{\,p}\right]\delta_{1112}\,\delta_{1314}+\frac{16}{45}\sum_{p}g_{3}^{\,4}\,LF_{5,-2}\left[m_{q}^{\,p}\right]\delta_{1112}\,\delta_{1314}+$$
$$\sum_{p}s_Y\,g_{L}^{\,2}\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\left(2\,s_{2Y}\,c_Y+s_Y\,c_{2Y}\right)LF_{1,0}\left[m_{u}^{\,p}\right]+\frac{2}{9}\sum_{p}g_{3}^{\,4}\,LF_{3,0}\left[m_{u}^{\,p}\right]\delta_{1112}\,\delta_{1314}-$$
$$\frac{5}{12}\sum_{p}g_{3}^{\,4}\,LF_{4,-1}\left[m_{u}^{\,p}\right]\delta_{1112}\,\delta_{1314}+\frac{8}{45}\sum_{p}g_{3}^{\,4}\,LF_{5,-2}\left[m_{u}^{\,p}\right]\delta_{1112}\,\delta_{1314}-$$
$$3\,s_Y\,c_Y\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\,\overline{Yu}^{pr}\,Yu^{pr}\left(s_{2Y}+s_Y\,c_Y\right)LF_{1,0}\left[m_{u}^{\,r}\right]-\frac{1}{4}\,s_Y\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}$$
$$\left(3\,s_{4Y}\,c_Y\left(g_{L}^{\,2}+g_{2}^{\,2}\right)+s_Y\left(g_{L}^{\,2}\left(-1+3\,c_{2Y}^{\,2}\right)+3\,g_{2}^{\,2}\left(-1+c_{2Y}^{\,2}\right)\right)\right)LF_{1,0}\left[m_{\oplus}\right]+$$
$$\frac{1}{4}\,\frac{1}{m_\oplus^2}\,s_Y^2\left(3\,s_Y^2\,\overline{Yd}^{pr}\,\overline{Yd}^{1213}\,Yd^{p14}\,Yd^{11r}+3\,Yd^{1114}\left(s_Y^2\,\overline{Yd}^{r13}\,\overline{Yd}^{12p}\,Yd^{rp}-c_Y^2\,\overline{Yd}^{p13}\,\overline{Yu}^{12r}\,Yu^{pr}\right)-\right.$$
$$\overline{Yd}^{1213}\left(2\,Yd^{1114}\left(g_{L}^{\,2}+3\,g_{2}^{\,2}\right)+3\,c_Y^2\,Yd^{p14}\,\overline{Yu}^{pr}\,Yu^{11r}\right)\Big)LF_{1,1}\left[m_{\oplus}\right]+$$
$$\frac{1}{12}\left(s_Y^2\left(3\,\overline{Yd}^{1213}\left(Yd^{1114}\left(g_{L}^{\,2}+3\,g_{2}^{\,2}\right)+2\,c_Y^2\,Yd^{p14}\,\overline{Yu}^{pr}\,Yu^{11r}\right)+2\,\overline{Yd}^{p13}\left(3\,c_Y^2\,Yd^{1114}\,\overline{Yu}^{12r}\,Yu^{pr}-\right.\right.\right.$$
$$\left.\left.\left.4\,g_{3}^{\,2}\,Yd^{p14}\,\delta_{1112}\right)\right)-4\,g_{3}^{\,2}\left(s_Y^2\,\overline{Yd}^{12p}\,Yd^{11p}+c_Y^2\,\overline{Yu}^{12p}\,Yu^{11p}\right)\delta_{1314}\right)LF_{1,2}\left[m_{\oplus}\right]+$$
$$\frac{1}{9}\,g_{L}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{1,1,1,-1}\left[m_{1},m_{\tilde{d}}^{\,p}\right]-\frac{1}{18}\,g_{L}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{1,1,1,0}\left[m_{1},m_{\tilde{d}}^{\,14}\right]+$$
$$\frac{1}{27}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{2,1,0}\left[m_{\tilde{d}}^{\,13},m_{1}\right]\delta_{1112}\,\delta_{1314}+\frac{1}{27}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{2,2,-1}\left[m_{1},m_{\tilde{d}}^{\,13}\right]\delta_{1112}\,\delta_{1314}-$$
$$\frac{2}{27}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{3,-1,-1}\left[m_{1},m_{\tilde{d}}^{\,14}\right]\delta_{1112}\,\delta_{1314}+\frac{1}{27}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{4,1,-2}\left[m_{1},m_{\tilde{d}}^{\,14}\right]\delta_{1112}\,\delta_{1314}+$$
$$\frac{1}{36}\,g_{L}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{1,1,0}\left[m_{1},m_{\tilde{q}}^{\,12}\right]-\frac{1}{72}\,g_{L}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{2,1,-1}\left[m_{1},m_{\tilde{q}}^{\,12}\right]+$$
$$\frac{1}{108}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{2,1,0}\left[m_{1},m_{\tilde{q}}^{\,12}\right]\delta_{1112}\,\delta_{1314}+\frac{1}{108}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{2,2,-1}\left[m_{1},m_{\tilde{q}}^{\,12}\right]\delta_{1112}\,\delta_{1314}-$$
$$\frac{1}{54}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{3,-1,-1}\left[m_{1},m_{\tilde{q}}^{\,12}\right]\delta_{1112}\,\delta_{1314}+\frac{1}{108}\,g_{L}^{\,2}\,g_{3}^{\,2}\,LF_{4,1,-2}\left[m_{1},m_{\tilde{q}}^{\,12}\right]\delta_{1112}\,\delta_{1314}+$$
$$g_{L}^{\,2}\,\frac{1}{m_\oplus^4}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\left(c_Y^2+s_Y^2\right)LF_{1,1,-1}\left[m_{1},\tilde{\mu}\right]+$$
$$2\,m_1\,s_Y\,\tilde{\mu}\,c_Y\,g_{L}^{\,2}\,\frac{1}{m_\oplus^4}\,\overline{Yd}^{1213}\,Yd^{1114}\left(c_Y^2-2\,s_Y^2\right)LF_{1,1,0}\left[m_{1},\tilde{\mu}\right]+$$
$$\frac{3}{4}\,g_{2}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{1,1,1,-1}\left[m_{2},m_{\tilde{q}}^{\,12}\right]-\frac{3}{8}\,g_{2}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{2,1,-1}\left[m_{2},m_{\tilde{q}}^{\,12}\right]+$$
$$\frac{3}{4}\,g_{2}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{1,1,0}\left[m_{2},m_{\tilde{q}}^{\,11}\right]-\frac{3}{8}\,g_{2}^{\,2}\,\frac{1}{m_\oplus^2}\,s_Y^2\,\overline{Yd}^{1213}\,Yd^{1114}\,LF_{2,1,-1}\left[m_{2},m_{\tilde{q}}^{\,12}\right]+$$
$$\frac{1}{4}\,g_{2}^{\,2}\,g_{3}^{\,2}\,LF_{2,1,0}\left[m_{2},m_{\tilde{q}}^{\,12}\right]\delta_{1112}\,\delta_{1314}+\frac{1}{4}\,g_{2}^{\,2}\,g_{3}^{\,2}\,LF_{2,2,-1}\left[m_{2},m_{\tilde{q}}^{\,12}\right]\delta_{1112}\,\delta_{1314}-$$