

$$S_{21}(f) = ae^{-2\pi j f au} igg[ 1 - rac{Q_r/Q_c e^{j\phi_0}}{1 + 2jQ_r(rac{f - f_r}{f_r})} igg]$$

 $f_r = 3.39555694996$ 

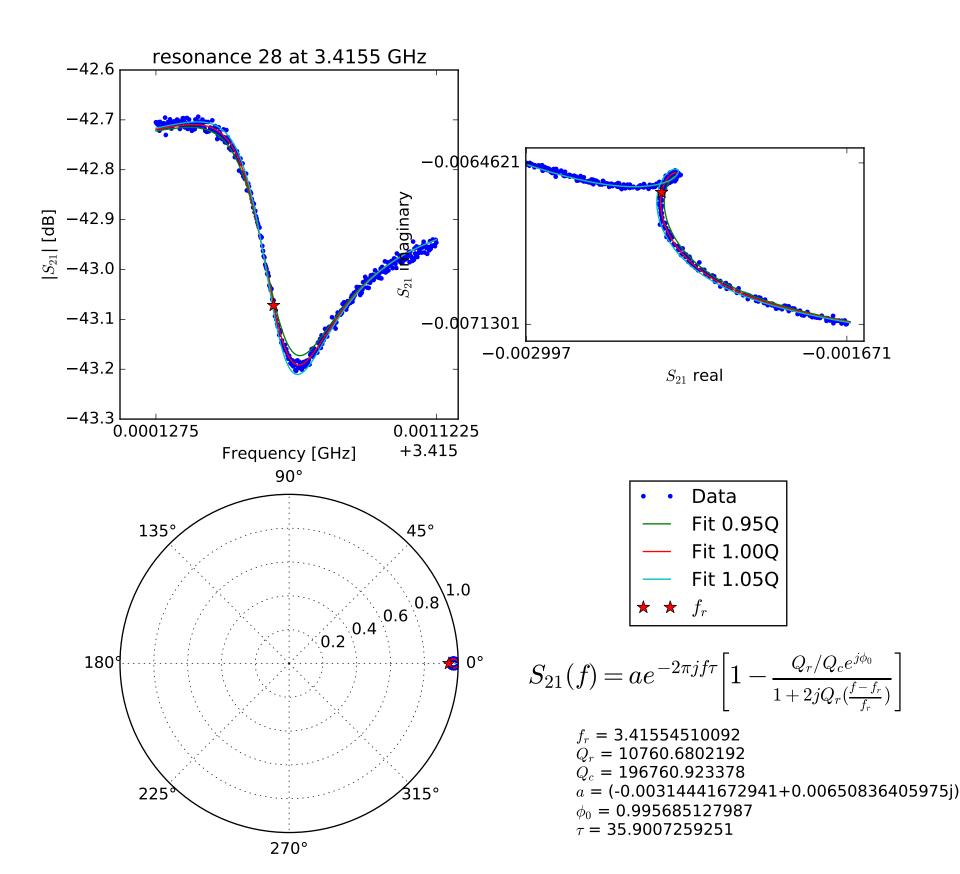
 $Q_r = 7525.85156945$ 

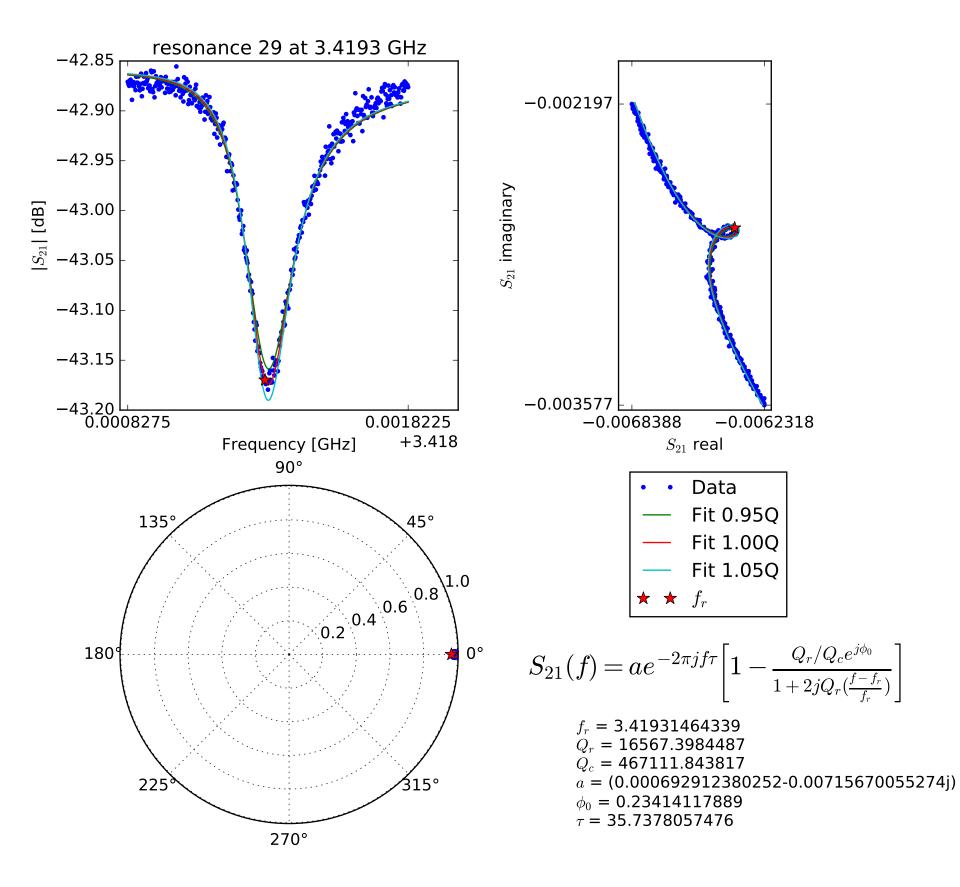
 $Q_c = 239181.764488$ 

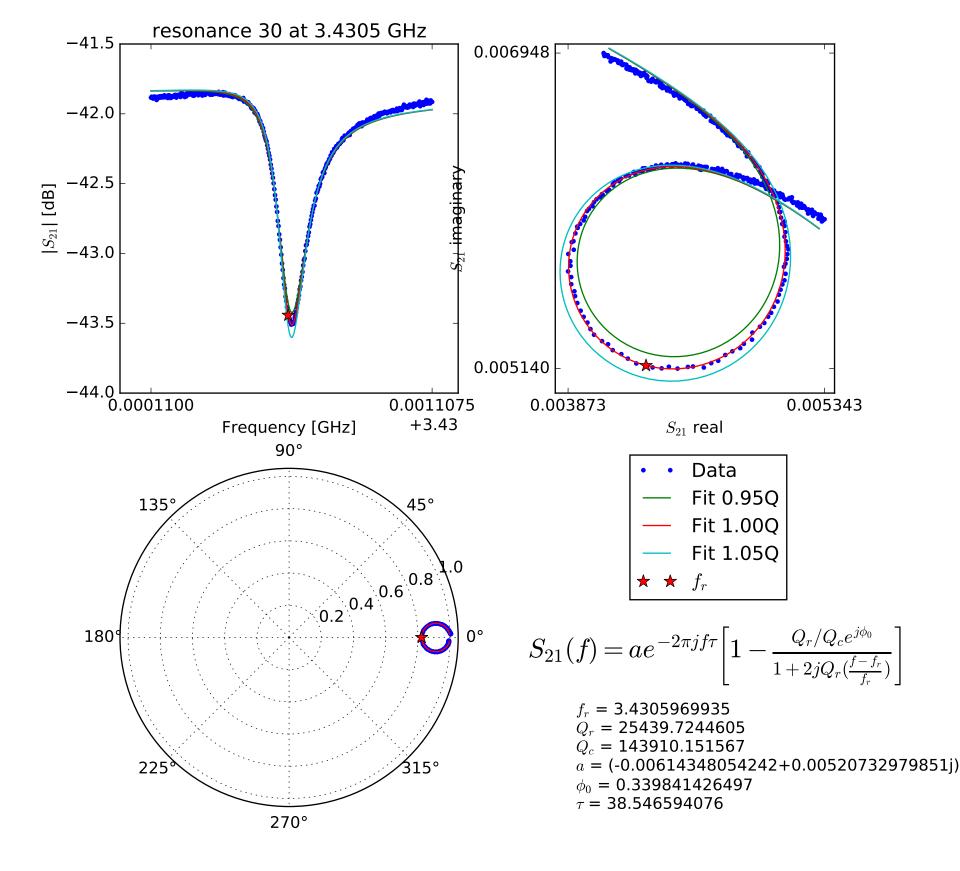
a = (0.00910348657599 - 0.00101216803398j)

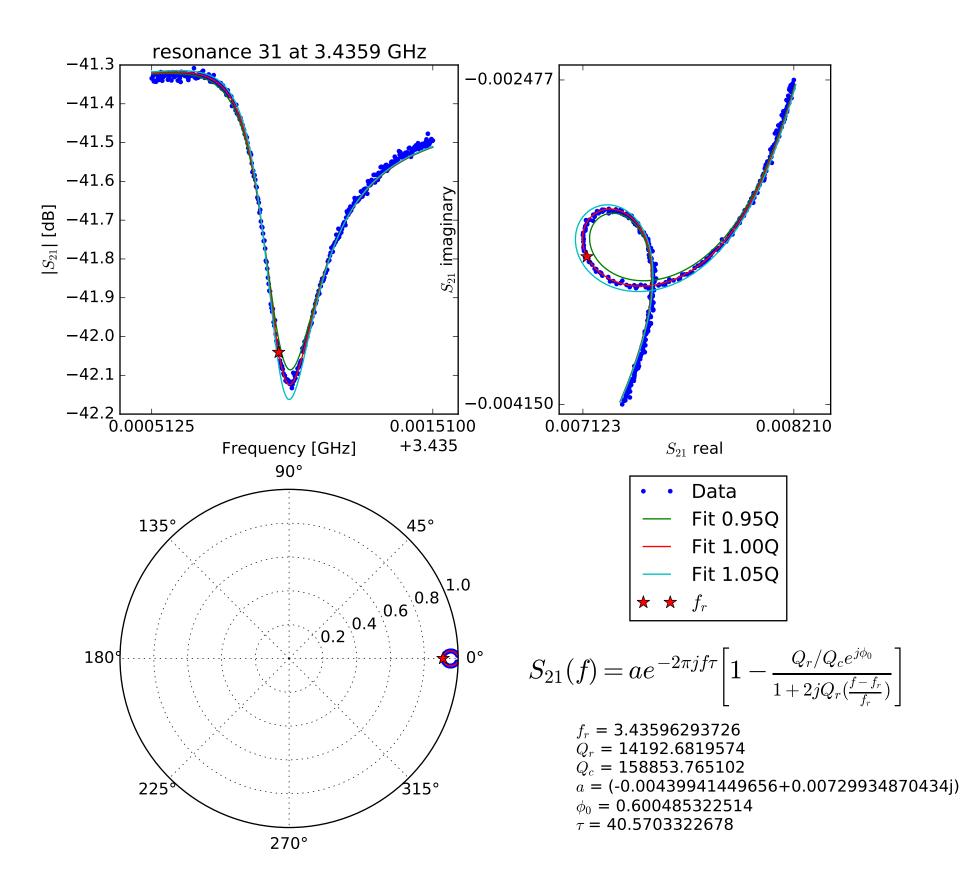
 $\phi_0 = -5.55757067872$ 

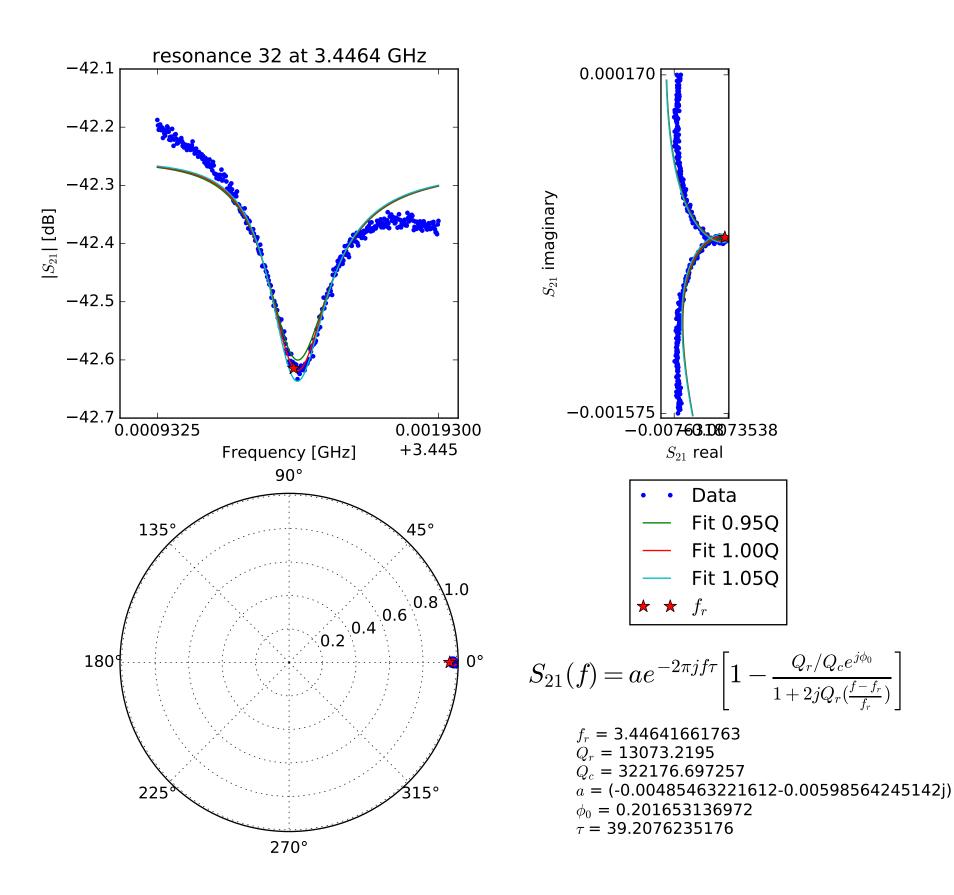
 $\tau$  = 40.2069040253

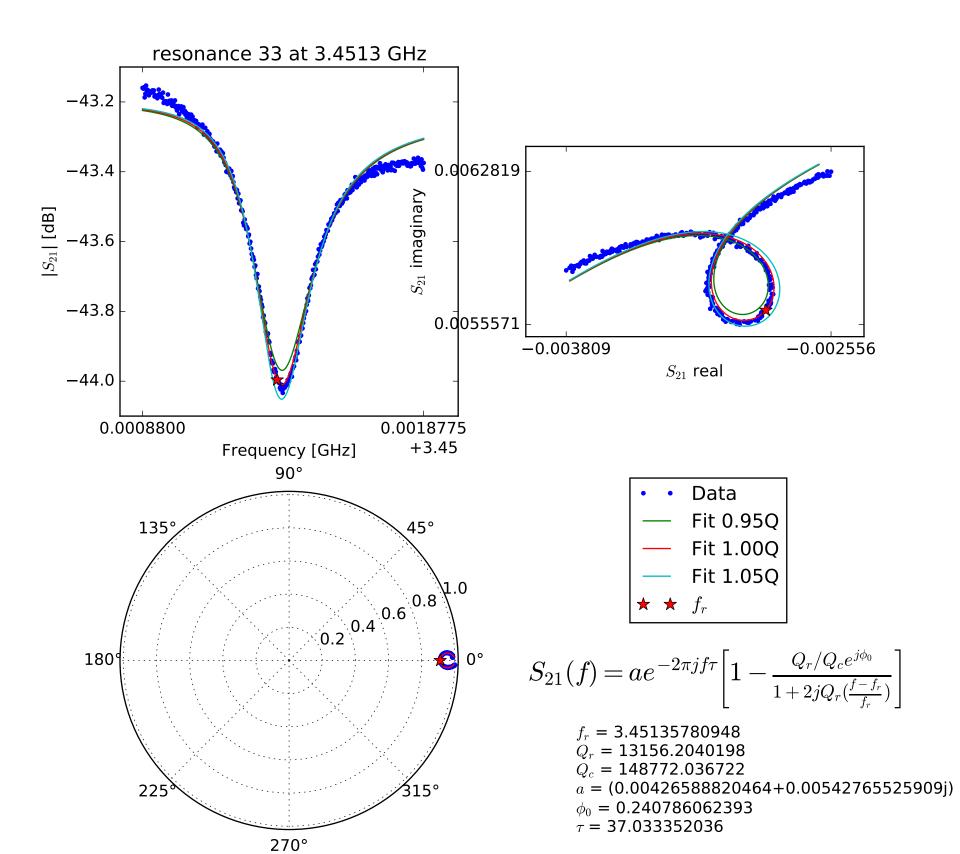


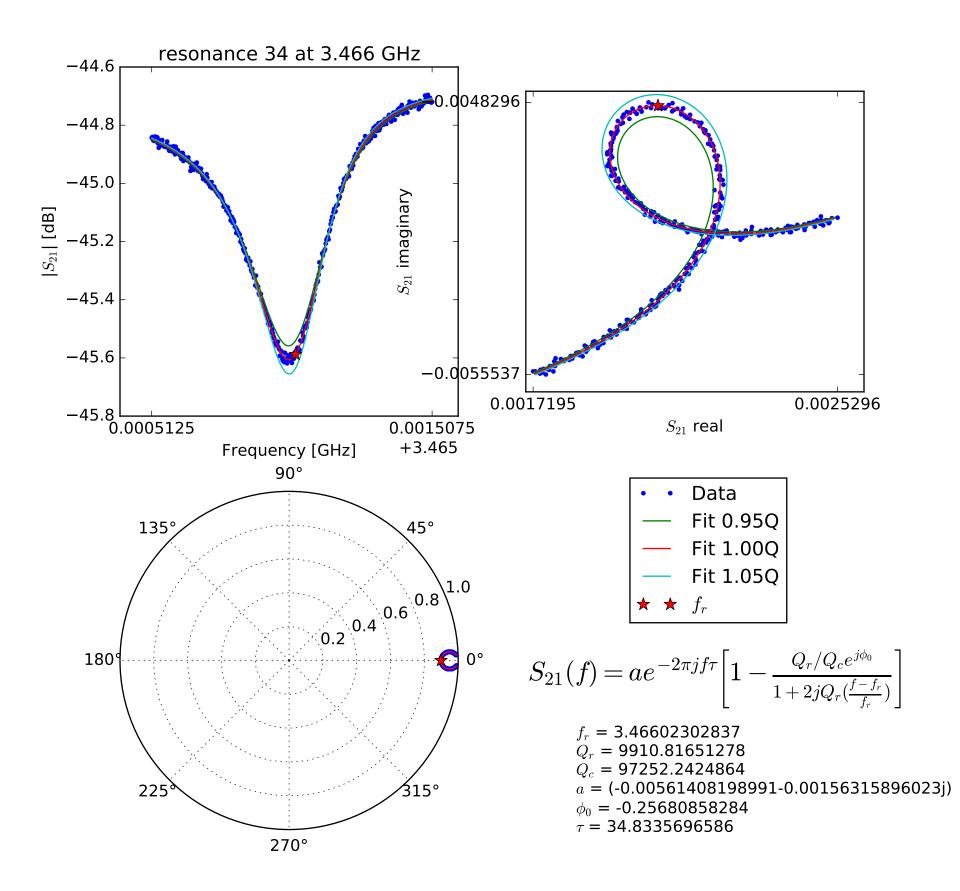


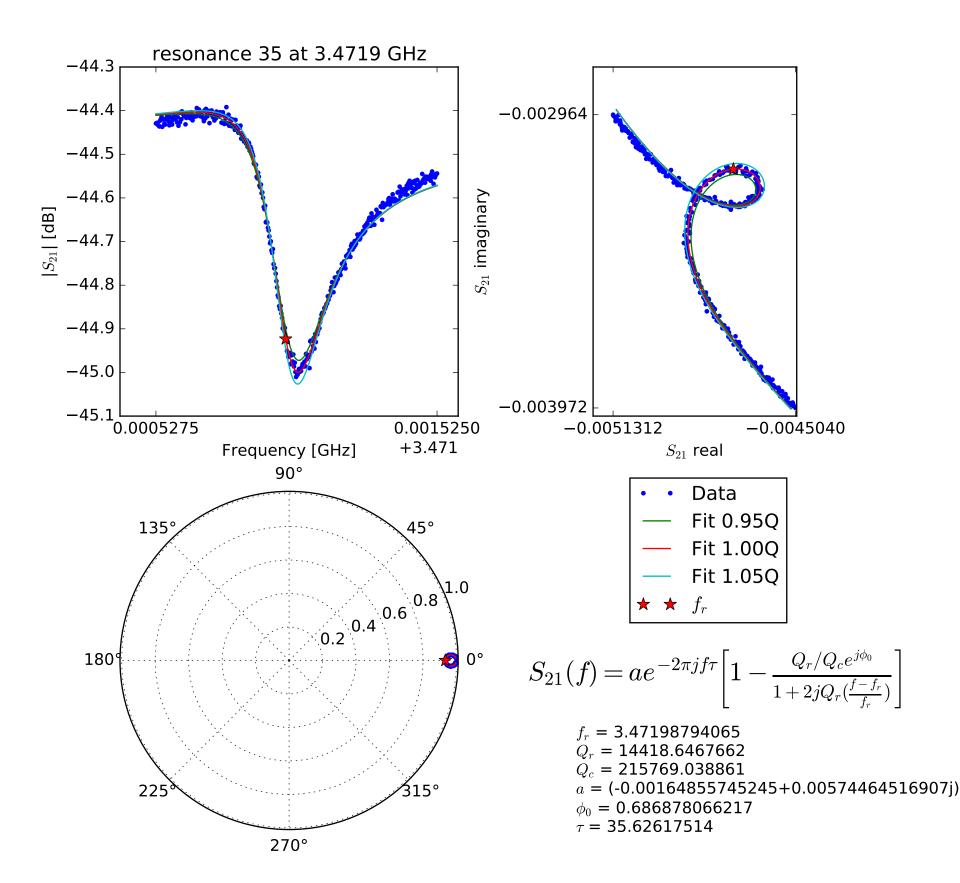


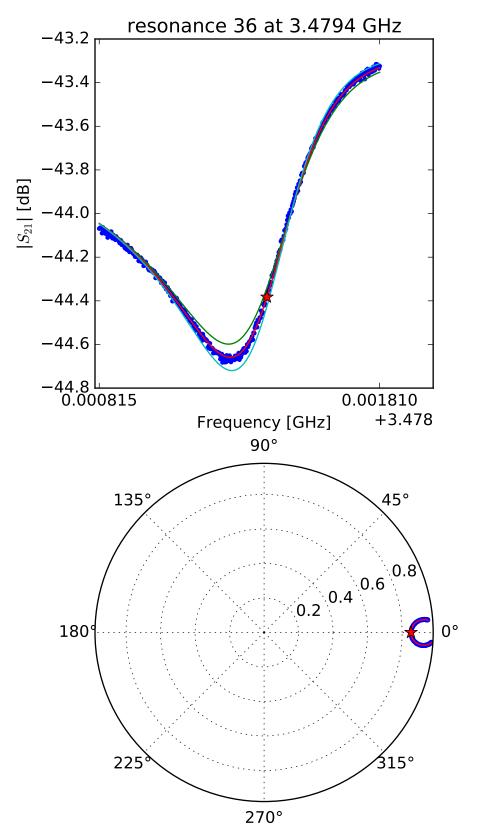


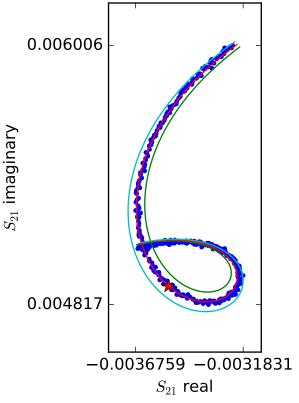


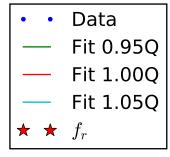












$$S_{21}(f) = ae^{-2\pi jf au} igg[ 1 - rac{Q_r/Q_c e^{j\phi_0}}{1 + 2jQ_r(rac{f - f_r}{f_r})} igg]$$

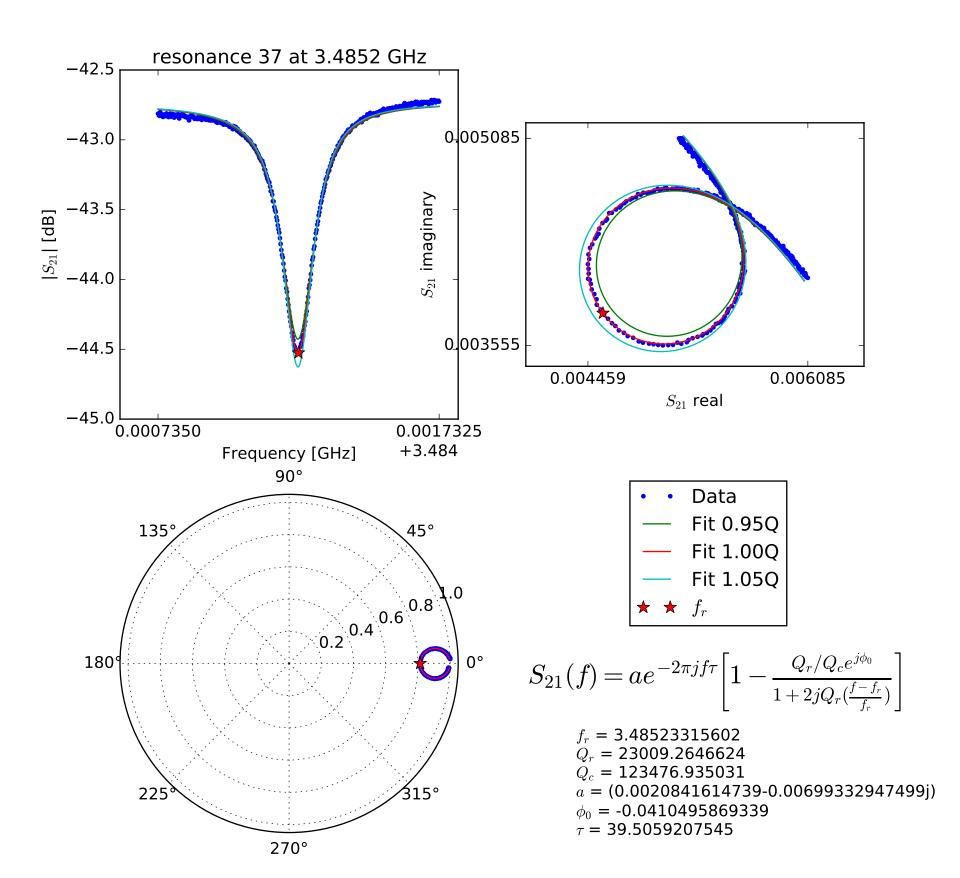
 $f_r = 3.47941020059$  $Q_r = 6225.50547394$ 

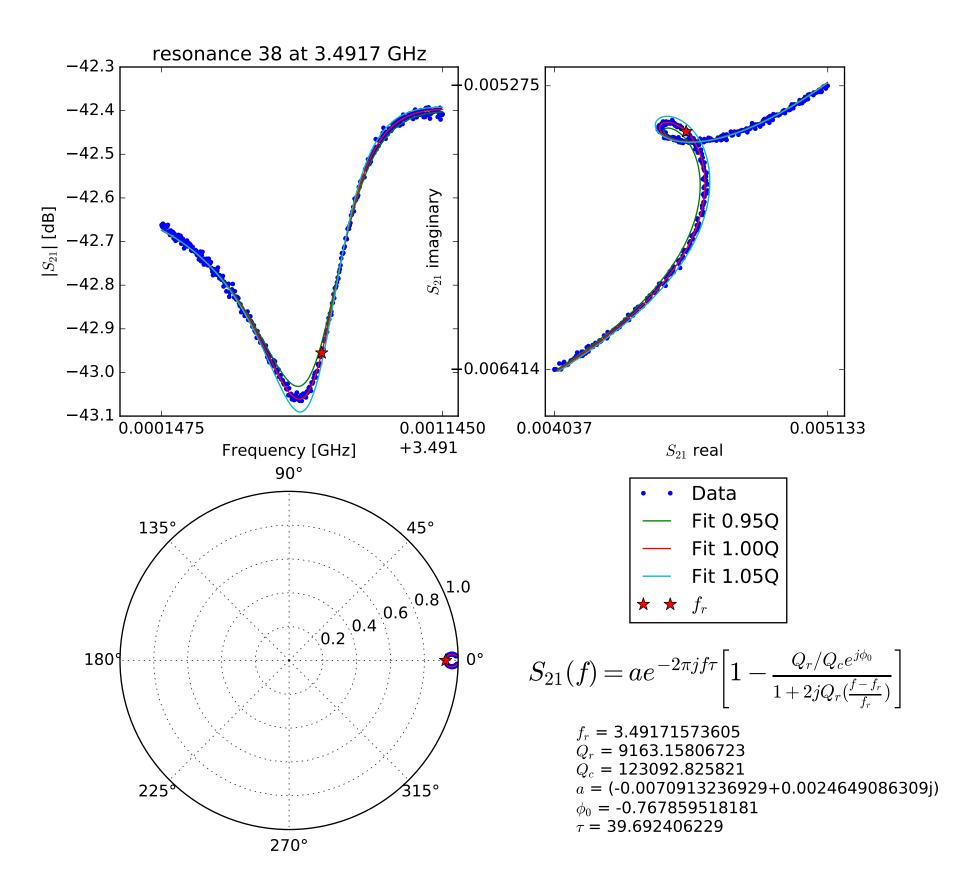
 $Q_c = 41850.235515$ 

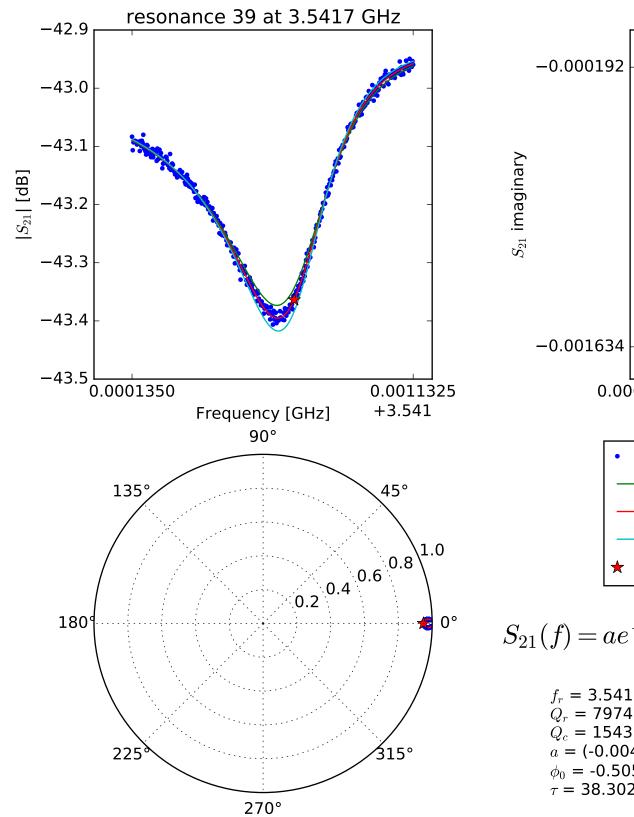
a = (0.000222530138557 + 0.00667173975086)

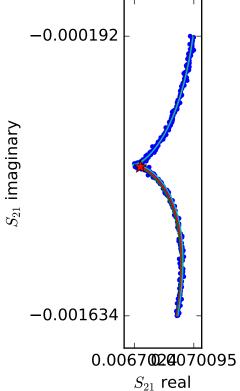
 $\phi_0 = -0.814644284799$ 

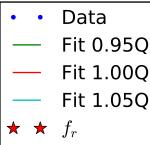
 $\tau$  = 37.6255045057











$$S_{21}(f) = ae^{-2\pi jf au} igg[ 1 - rac{Q_r/Q_c e^{j\phi_0}}{1 + 2jQ_r(rac{f - f_r}{f_r})} igg]$$

 $f_r = 3.54171033836$ 

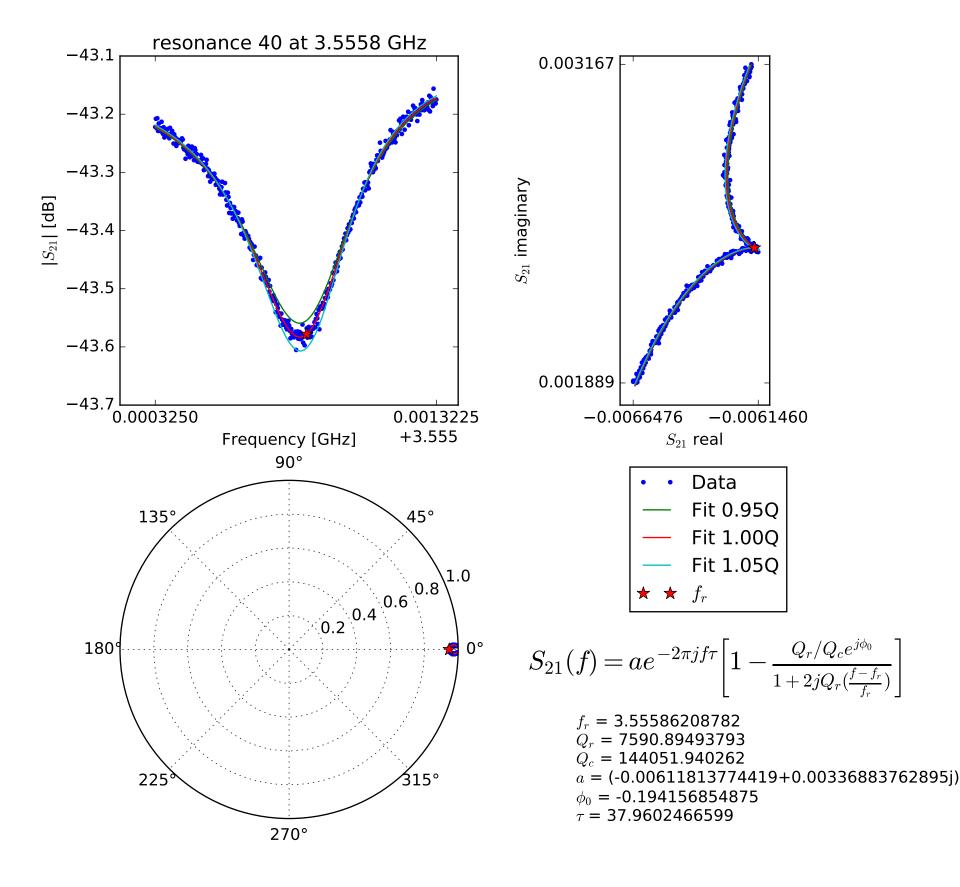
 $Q_r = 7974.21572626$ 

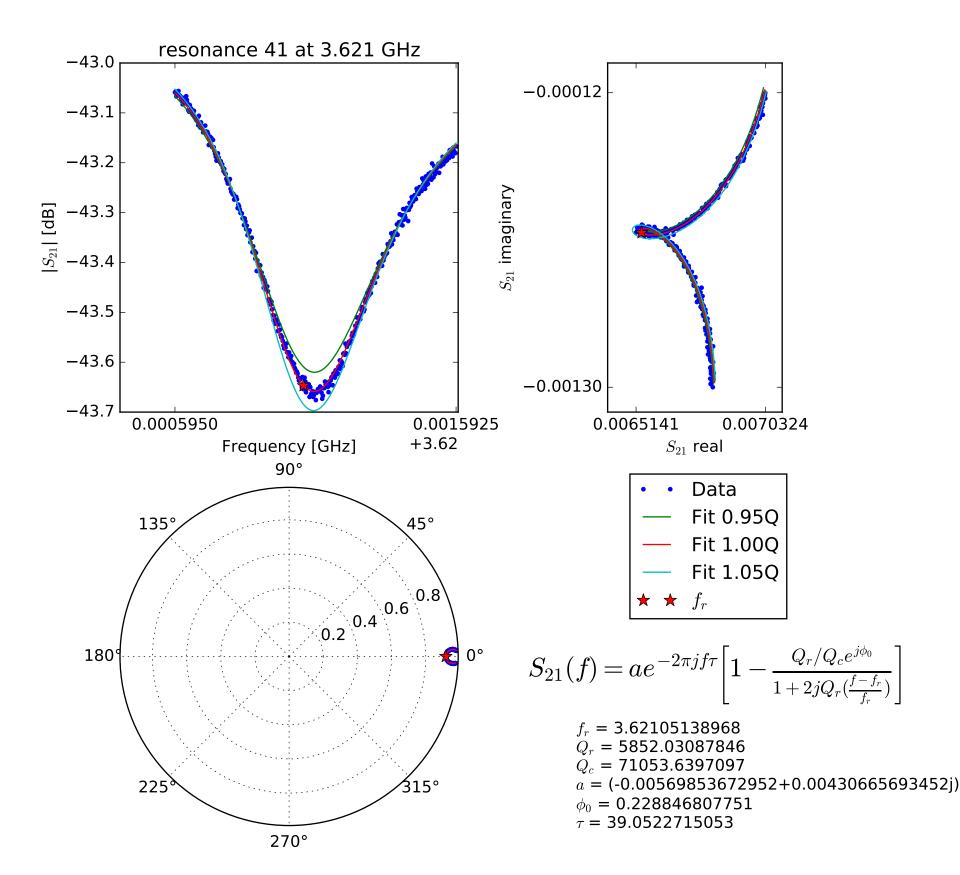
 $Q_c = 154318.550974$ 

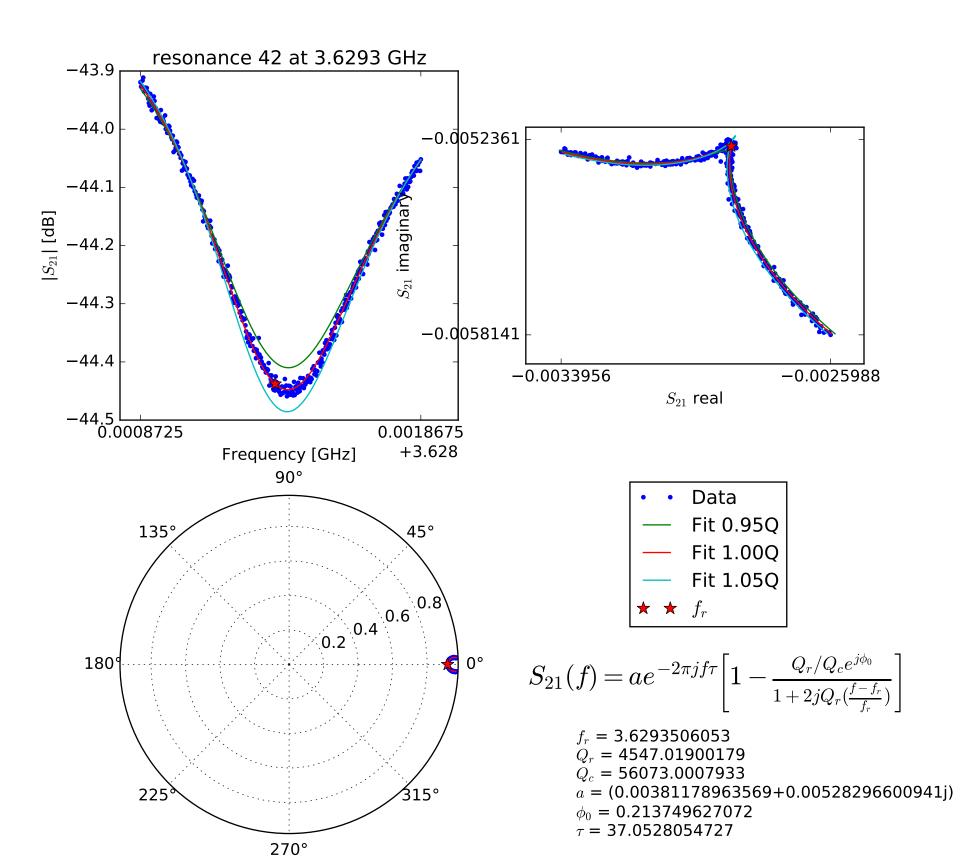
a = (-0.00483005601619 - 0.00521504828369j)

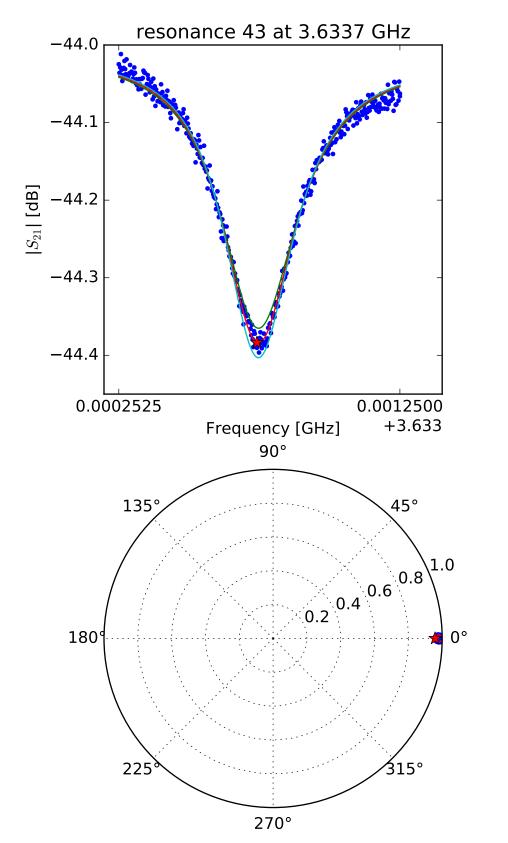
 $\phi_0 = -0.505640887233$ 

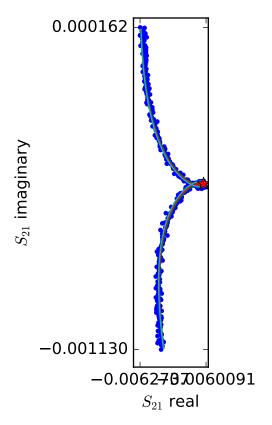
 $\tau$  = 38.3022896092













$$S_{21}(f) = ae^{-2\pi j f au} igg[ 1 - rac{Q_r/Q_c e^{j\phi_0}}{1 + 2jQ_r(rac{f - f_r}{f_r})} igg]$$

 $f_r = 3.63374256504$ 

 $Q_r = 11264.4631971$ 

 $Q_c = 268727.004572$ 

a = (-0.00251466314034 + 0.00577683021446j)

 $\begin{array}{l} \phi_0 = 0.0682727914506 \\ \tau = 36.5470605319 \end{array}$ 

