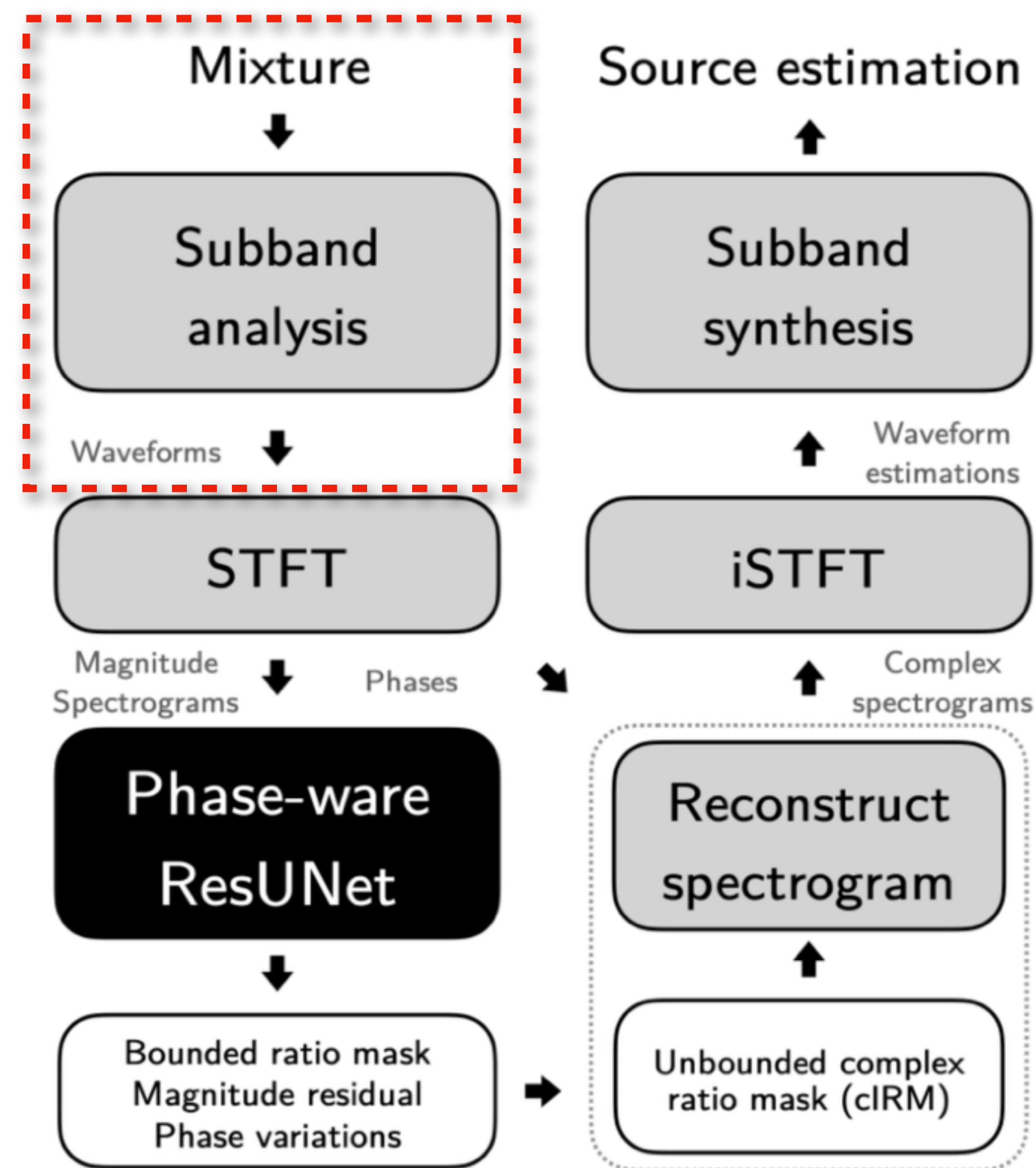


CWS-PResUNet

Step1: Subband analysis

- Input
 - Stereo mixture signal: $x \in \mathbb{R}^{2 \times L}$
 - Analysis filter banks: $h^{(j)}, j = 1, 2, 3, 4$
- Operation
 - $x'_{8 \times \frac{L}{4}} = [\text{DS}_4(x_{2 \times 1 \times L} * h_{1 \times 64}^{(j)})]_{j=1,2,3,4}$



CWS-PResUNet

Step2: Phase-aware ResUNet

- Input
 - CWS feature: $|X'|_{8 \times T \times \frac{F}{4}}$
- Estimate:
 - Subband phase variation: \hat{P}_i, \hat{P}_j
 - Subband IRM: $\text{sigmoid}(\hat{M})$
 - Subband magnitude residual: \hat{Q}

