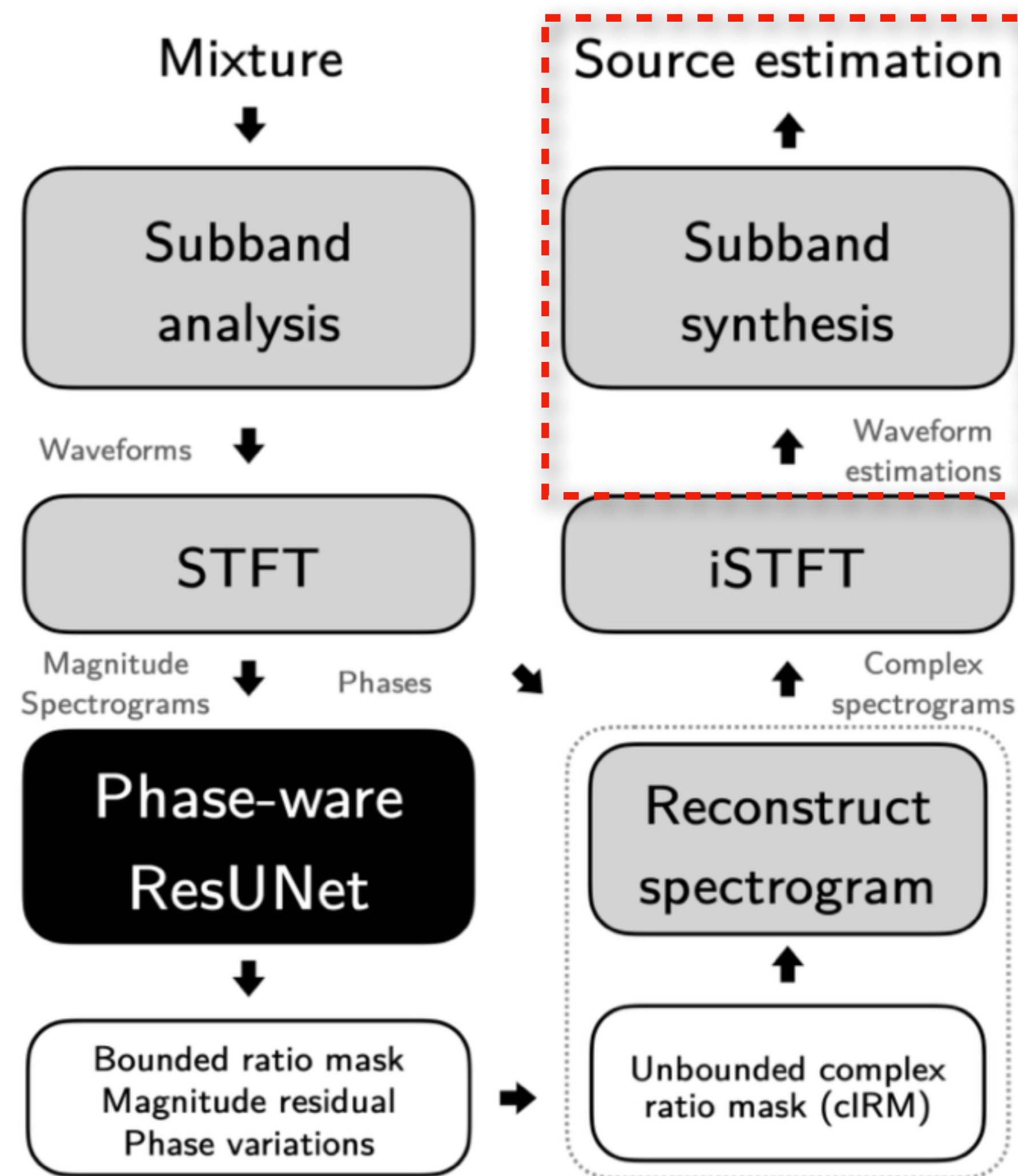


CWS-PResUNet

Step4: Subband synthesis

- Input
 - Subband signal estimation: \hat{s}'
 - Analysis filter banks: $g^{(j)}, j = 1, 2, 3, 4$
- Operation

$$\hat{s}_{2 \times L} = \sum_{j=1}^4 (\text{US}_4(\hat{s}'_{2 \times 4 \times \frac{L}{4}}) * g_{4 \times 64}^{(j)})$$



Experiment results

Table 2. Evaluation results on MUSDB18HQ test set.

Models	Vocals	Drums	Bass	Other	Average
X-UMX	6.61	6.47	5.43	4.64	5.79
D3Net	7.24	7.01	5.25	4.53	6.01
Demucs	6.89	6.57	6.53	5.14	6.28
CWS-PResUNet	8.92	6.38	5.93	5.84	6.77
ByteMSS	8.92	6.57	6.53	5.84	6.97

- CWS-PResUNet is advantageous on *vocals* tracks.
- We combine Demucs and CWS-PResUNet for our final submission, ByteMSS.