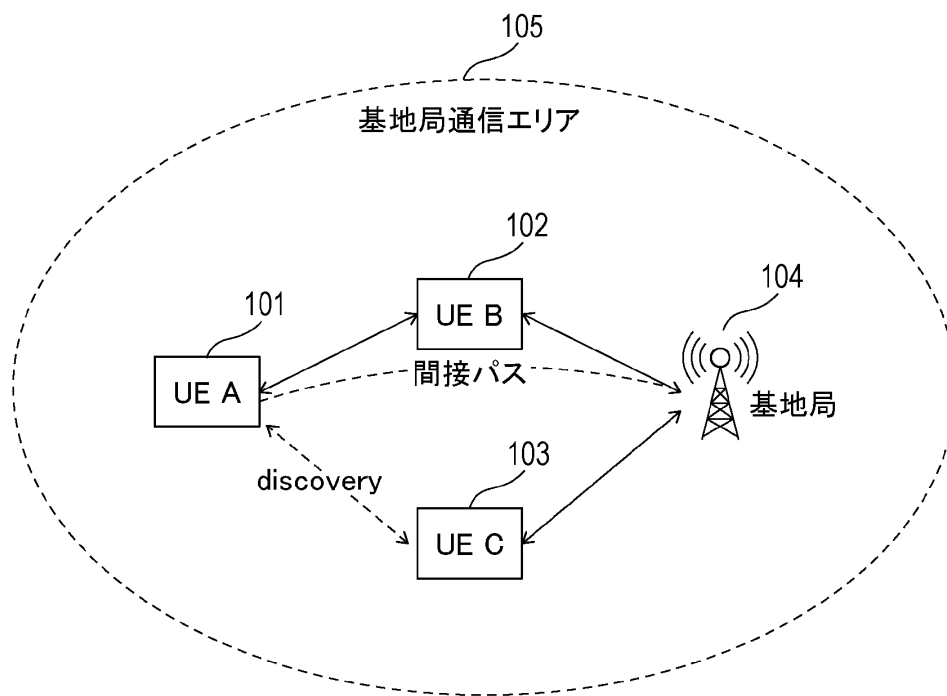
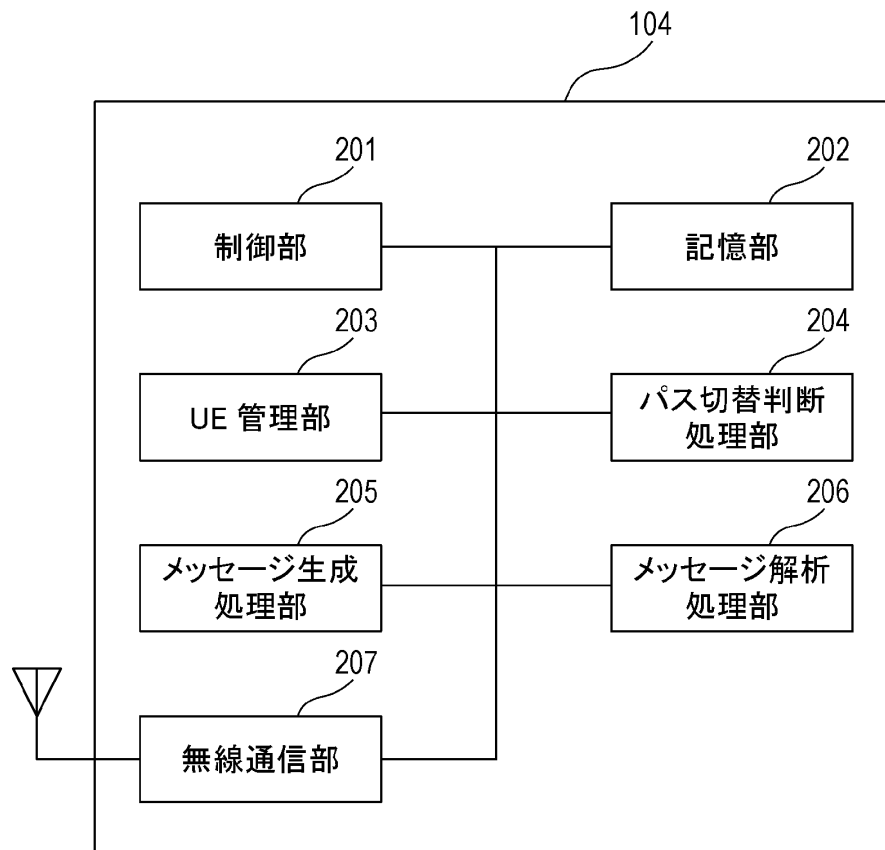


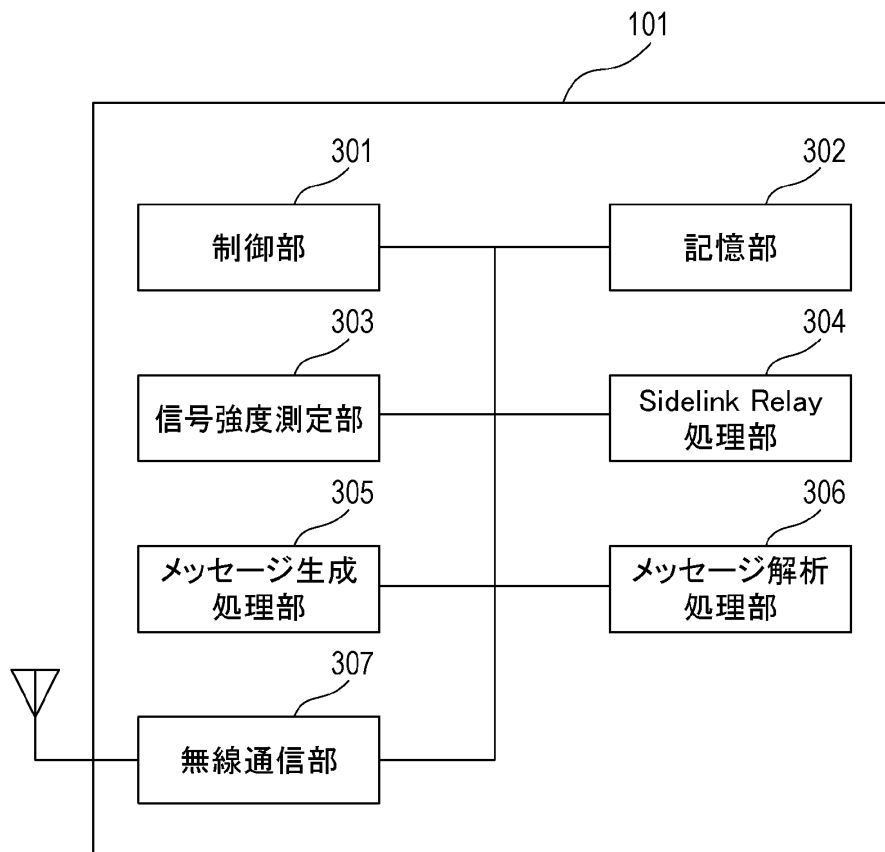
[図1]



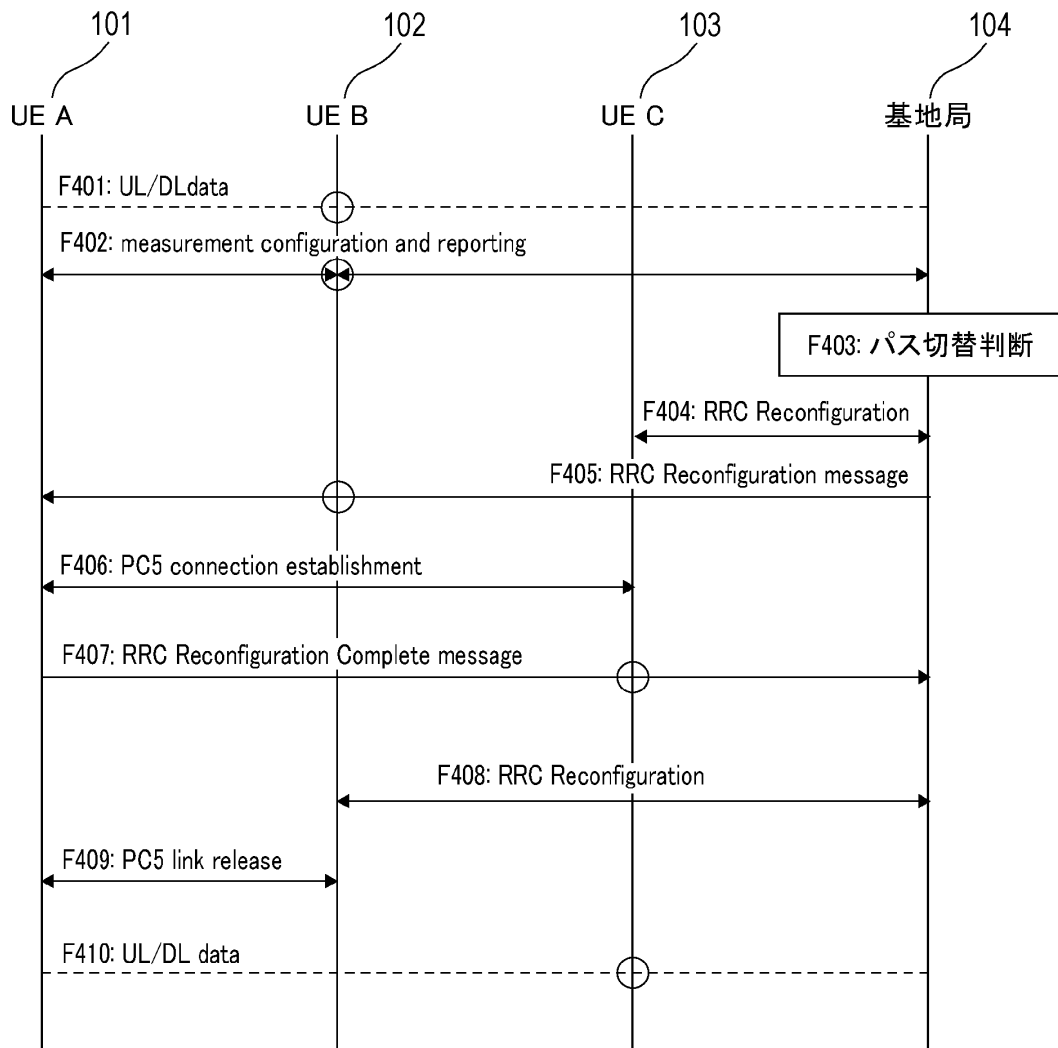
[図2]



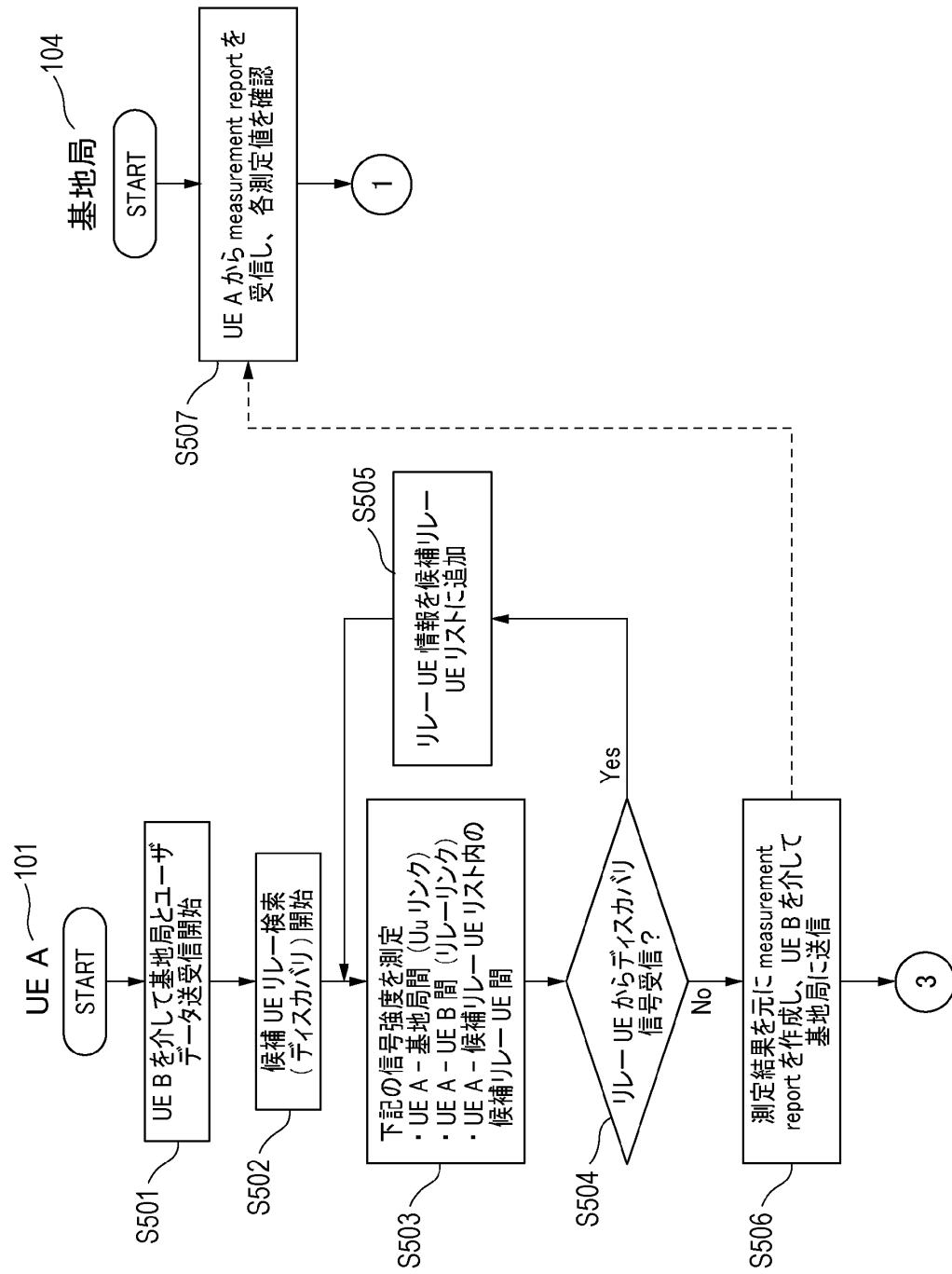
[図3]



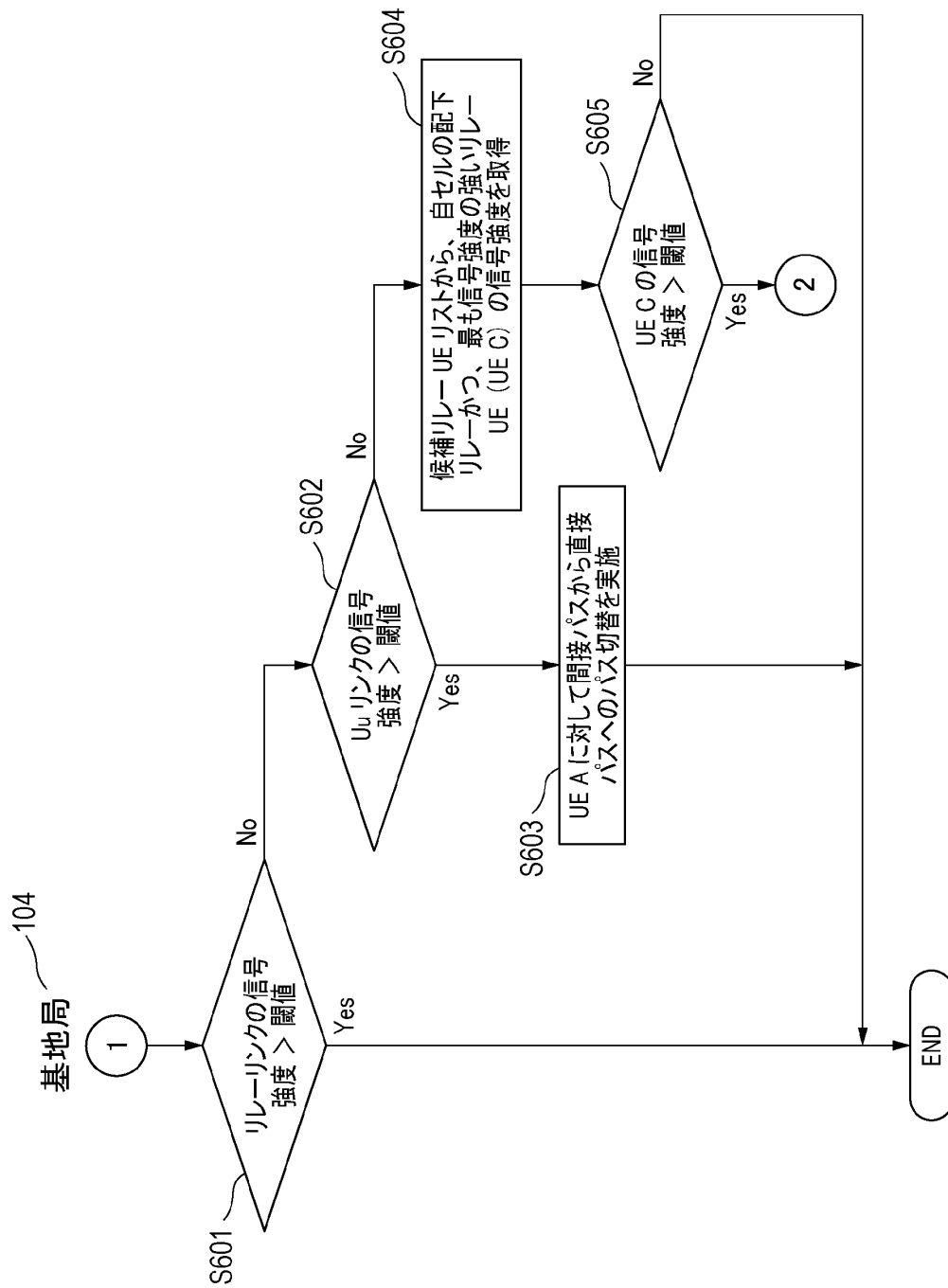
[図4]



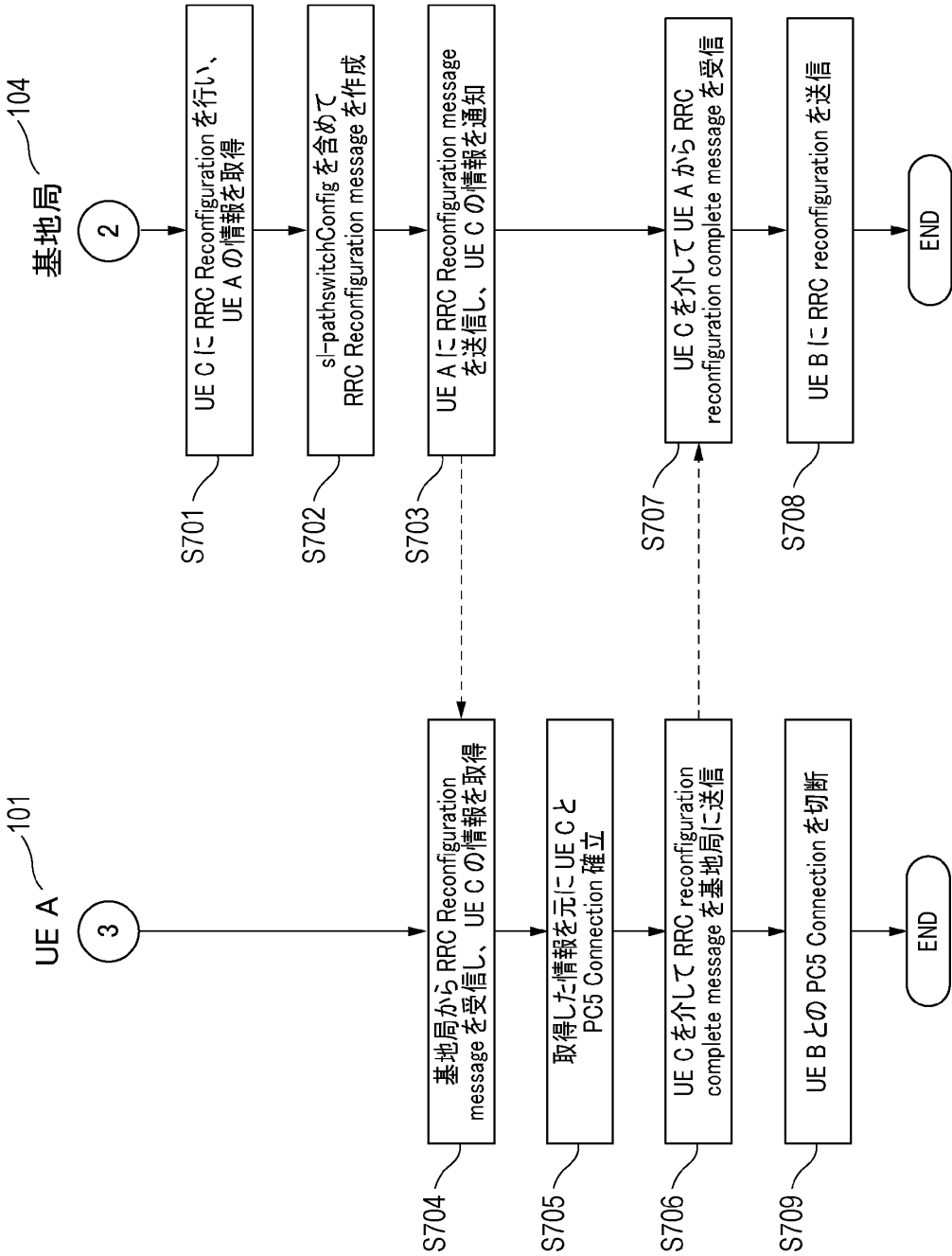
[図5]



[図6]



[図7]



```

graph TD
    subgraph UE_A [UE A 101]
        START1([START]) --> S801[S801]
        S801 --> S802[S802]
        S802 --> S803{S803}
        S803 -- Yes --> S804[S804]
        S804 --> S805{S805}
        S805 -- Yes --> S806[S806]
        S805 -- No --> S805
        S806 --> S807[S807]
        S807 --> END1((3))
    end
    subgraph Base_Station [基地局 104]
        START2([START]) --> S808[S808]
    end
    S808 -.-> S802

```

Flowchart illustrating the measurement report transmission method:

- UE A (101) Process:**
 - S801:** UE B introduces base station and user data, transmission starts.
 - S802:** Signal strength measurement for:
 - UE A - Base station (Uu Link)
 - UE A - UE B (Relay Link)
 - S803:** Decision: Is any signal strength < threshold?
 - Yes:** Proceeds to S804.
 - No:** Proceeds to S805.
 - S804:** Candidate UE relay search (Discovery) starts.
 - S805:** Decision: Candidate relay UE signal received?
 - Yes:** Proceeds to S806.
 - No:** Loops back to S805.
 - S806:** Update candidate relay UE list with current signal strength, add current signal strength measurement item to the list.
 - UE A - Candidate relay UE list
 - S807:** Create measurement report and send to base station via UE B.
- Base Station (104) Process:**
 - S808:** Receive measurement report from UE A, confirm each measurement value. Loops back to S802 in UE A.

[図9]

