**BJT Amplifier Characteristics**

**AIM:**

**To verify the frequency response analysis of common emitter amplifier using LTspice software**

**APPARATUS REQUIRED:**

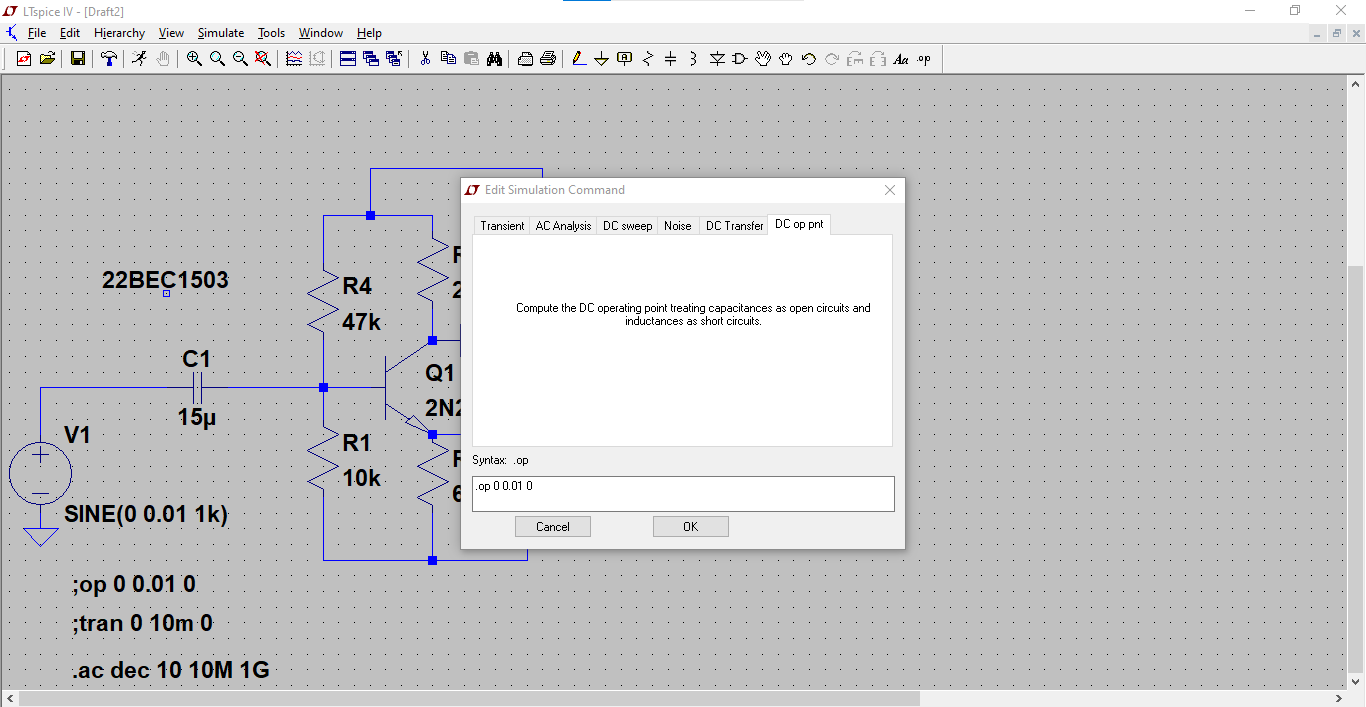
**LTspice software**

**PROCEDURE:**

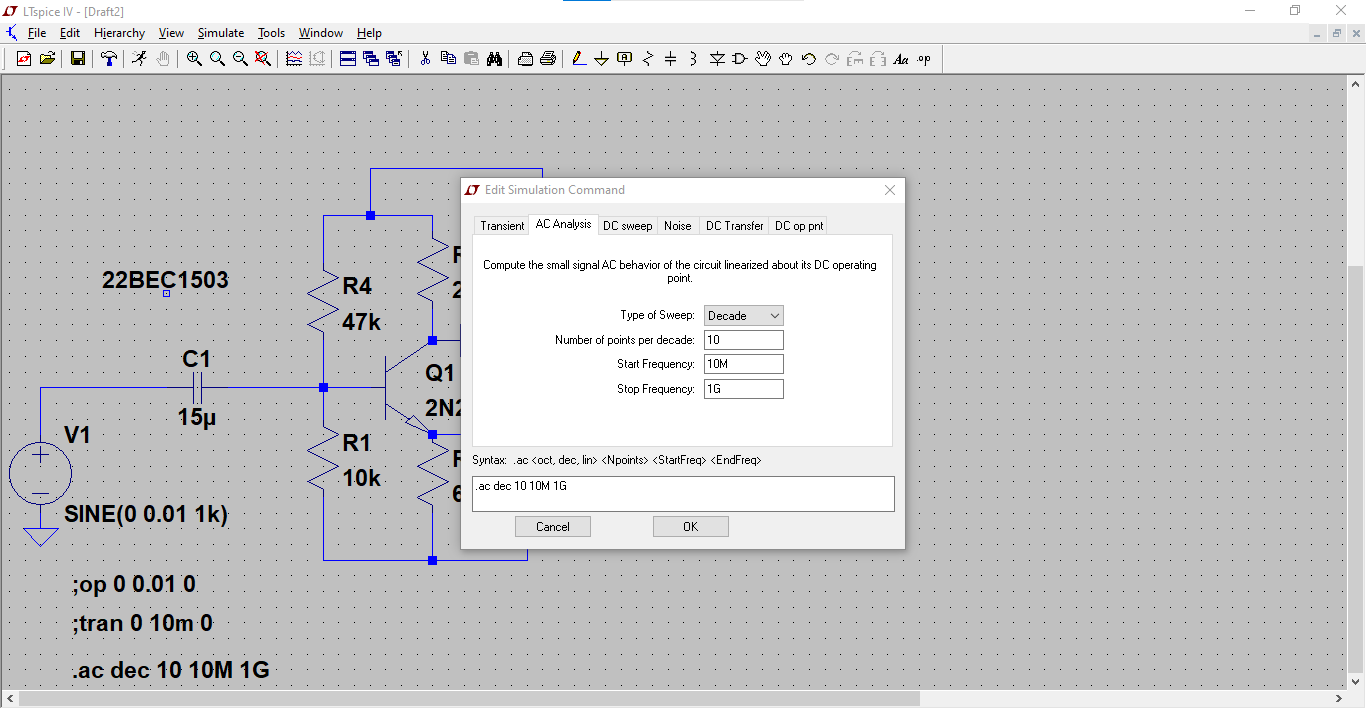
**Using the components available in LTspice a circuit is built that is used to verify three types of frequency response analysis:**

1. **DC Operating point**
2. **AC analysis**
3. **Transient analysis**

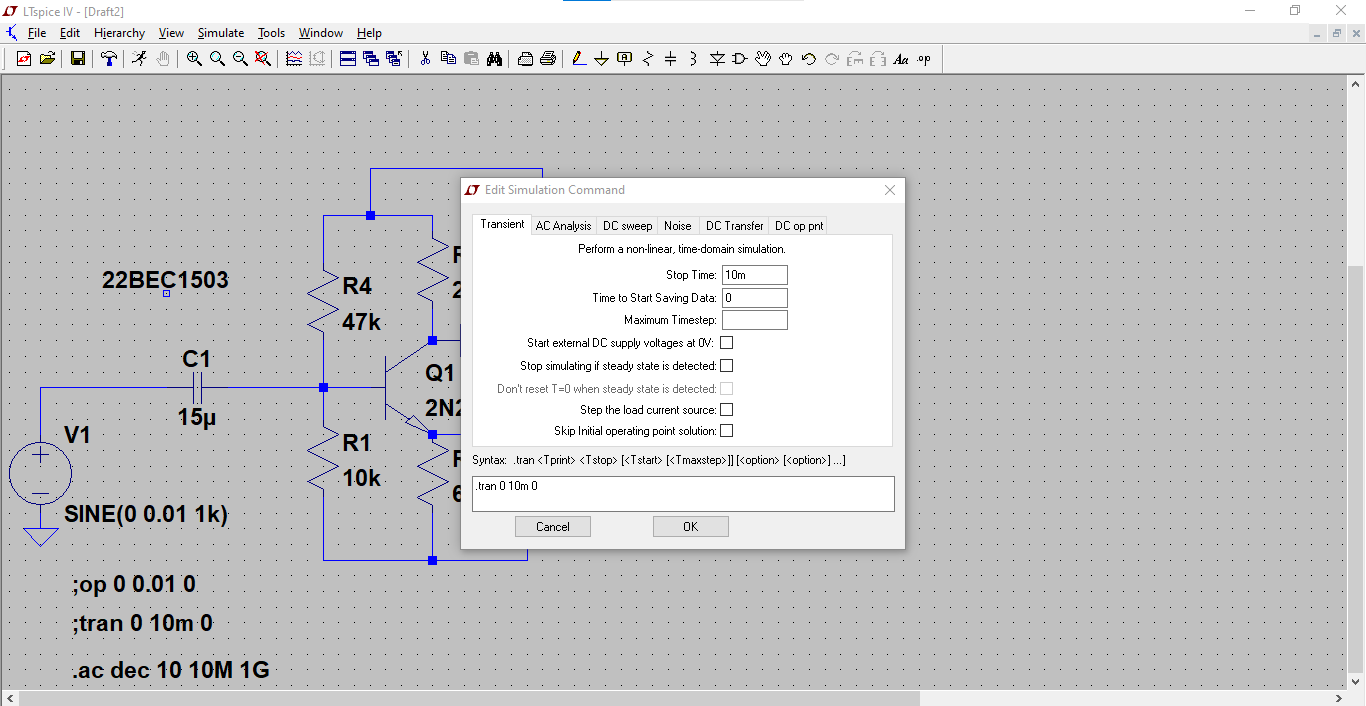
**Command for DC operating point:**

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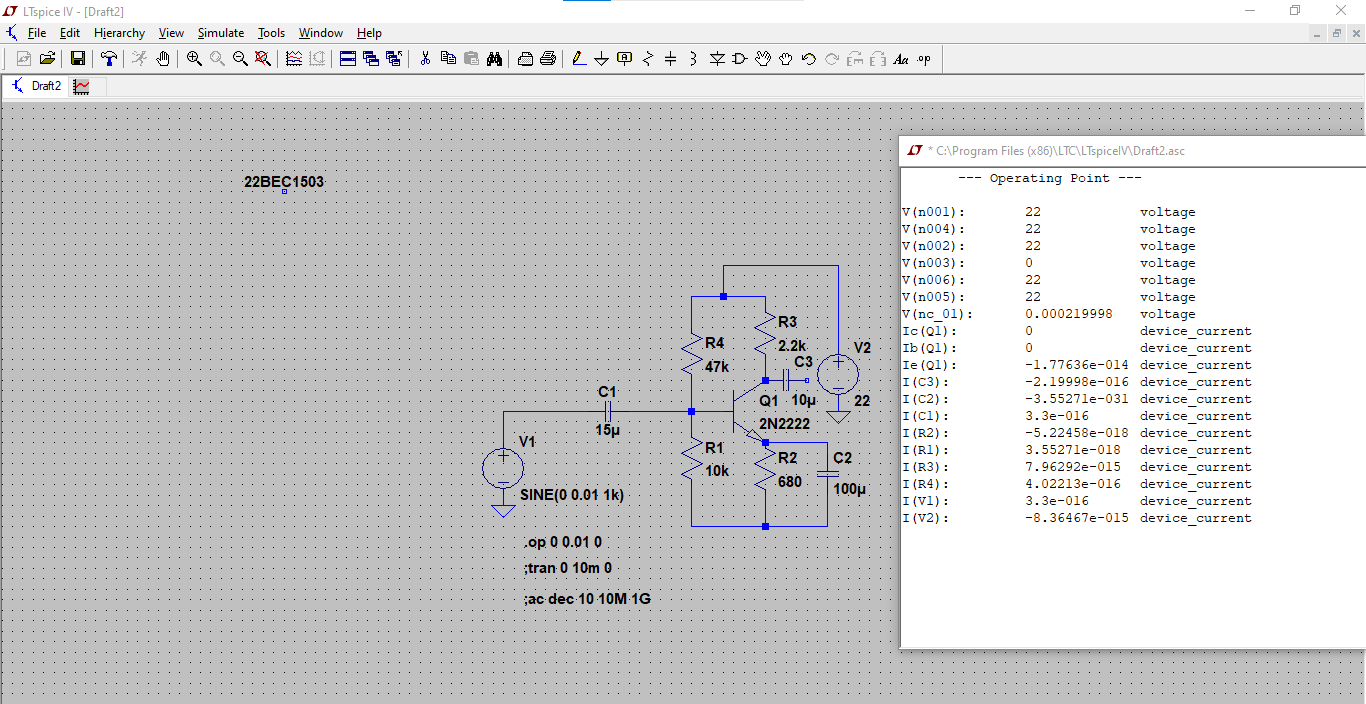
**Command for AC analysis:**

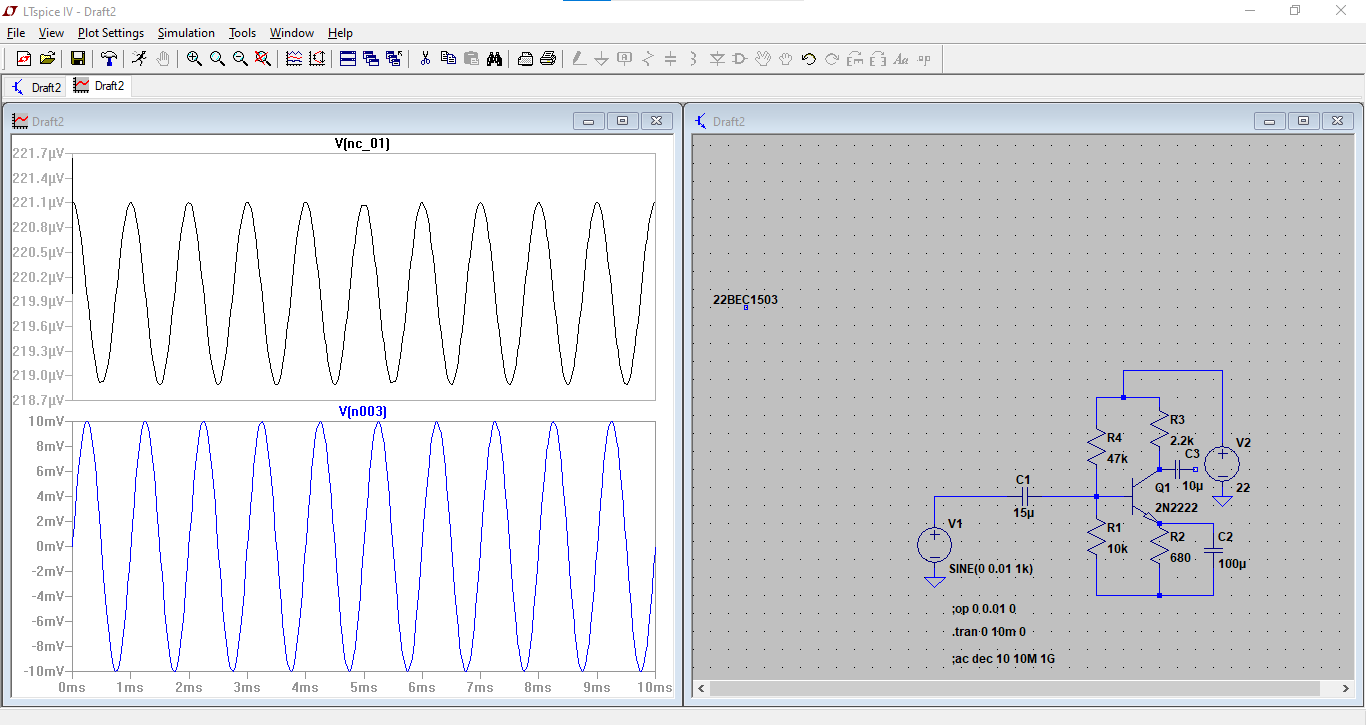
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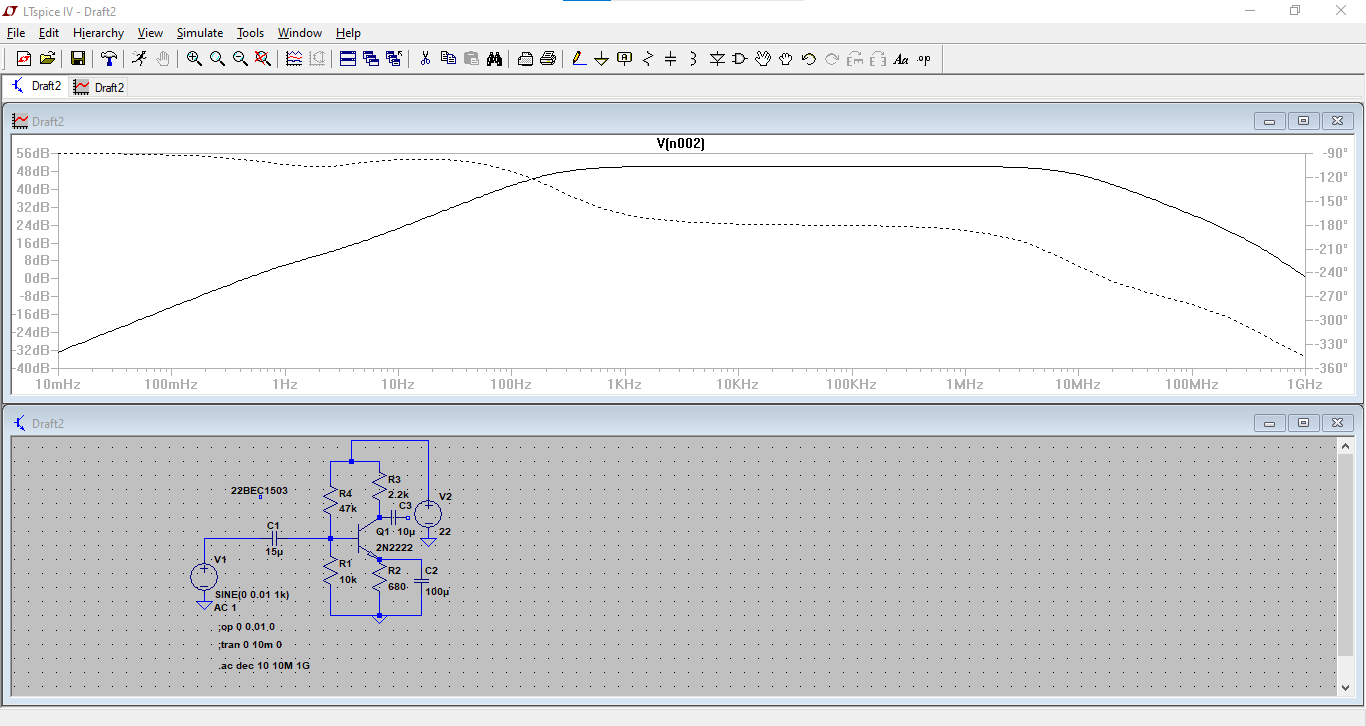
**Command for Transient analysis:**

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**Circuit and Output:**

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**RESULT:**

**The frequency response analysis of common emitter amplifier using LTspice software is verified.**