$$p = 6961, g = 437, s = 6104$$

- What is the value of v?

$$v = g^s = 437^{6104} \pmod{6961}$$
  
 $v = 2065$ 

$$S_1 \equiv g^e \equiv 437^{4451} \pmod{6961}$$
  
 $S_1 \equiv 3534$ 

$$S_2 \equiv (m - sS_1) e^{-1} \pmod{p-1}$$
  
 $S_2 \equiv [5584 - (6104)(3534)] e^{-1} \pmod{6960}$ 

$$S_2 \equiv [5584 - 21571536] (491) \pmod{6960}$$

$${e^{-1} = 491, 491*4451 \mod(6960) = 1}$$

$$S_2 \equiv [5584 - 21571536] (491) \pmod{6960}$$

$$S_2 \equiv -10588882432 \pmod{6960}$$

$$S_2 \equiv 5888$$

$$(S_1, S_2) = (3534, 5888)$$