A trace has been found.

Abbreviations
~X_1 = aenc(aenc((pk(a_1),~M_2),~M_1),~M_1) = aenc(aenc((pk(a_1),aenc(aenc((pk(ska_1),aenc(n,pk(skb_1))),pk(skb_1)),pk(skb_1))),pk(skb_1)),pk(skb_1))
~X_2 = aenc(aenc((pk(a_3),adec(~M_3,a_1)),~M_1),~M_1) = aenc(aenc((pk(a_3),aenc((pk(ska_1),aenc(n,pk(skb_1))),pk(skb_1))),pk(skb_1)),pk(skb_1))
~X_3 = aenc(aenc((pk(a_5),2-proj-2-tuple(adec(~M_4,a_3))),~M_1),~M_1) = aenc(aenc((pk(a_5),aenc(n,pk(skb_1))),pk(skb_1)),pk(skb_1))