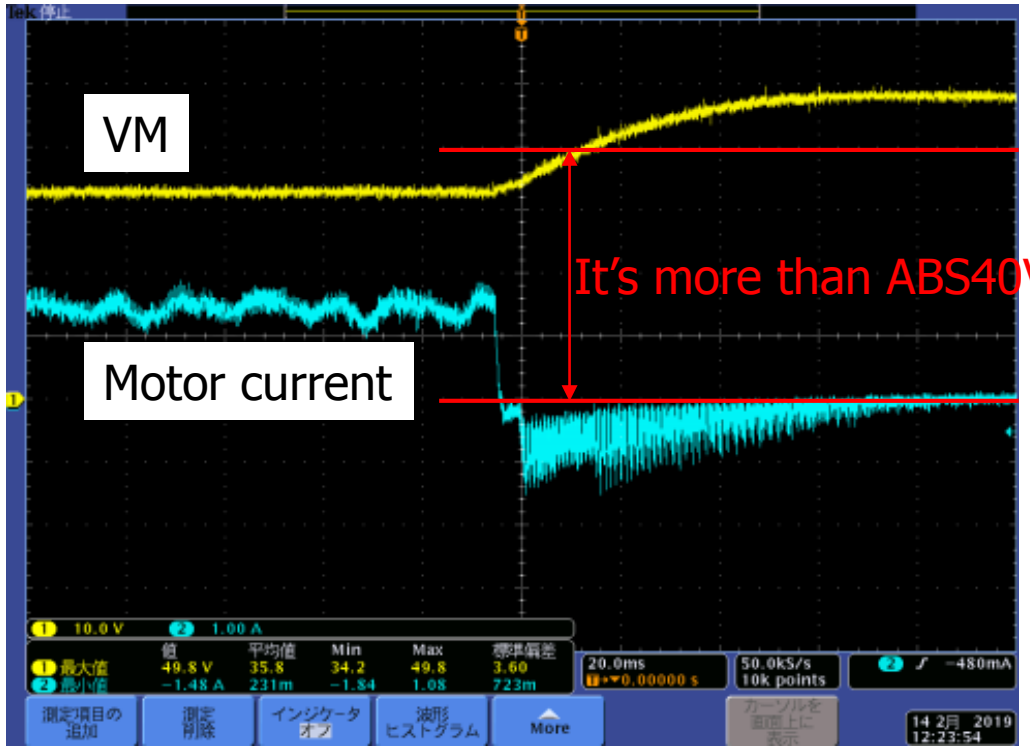
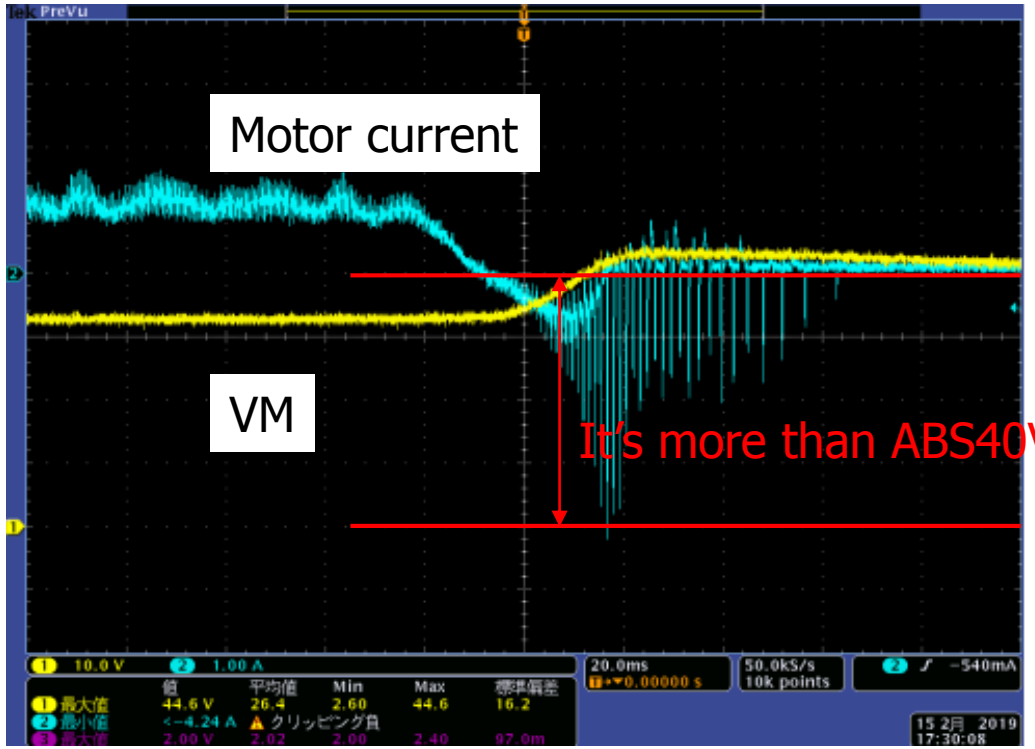
<Using customer's circuit with DRV8306>



<Using EVM with DRV8306>



■Question ■

-The customer uses BLDC motor. Usual VM is 33V.

-In case of sudden stop(like as PWM duty 9X%→X%), according to regenerative electric power, VM increases. As the result, VM is more than maximum ratings=40V. The device will be damaged. So, of course, it depends on motor current, VM and motor inductance value. We assume that it is better to insert clamp diode at VM. If you have some knowledge to reduce this voltage, could you let us know? Especially, we would like to know the method using the device setting.