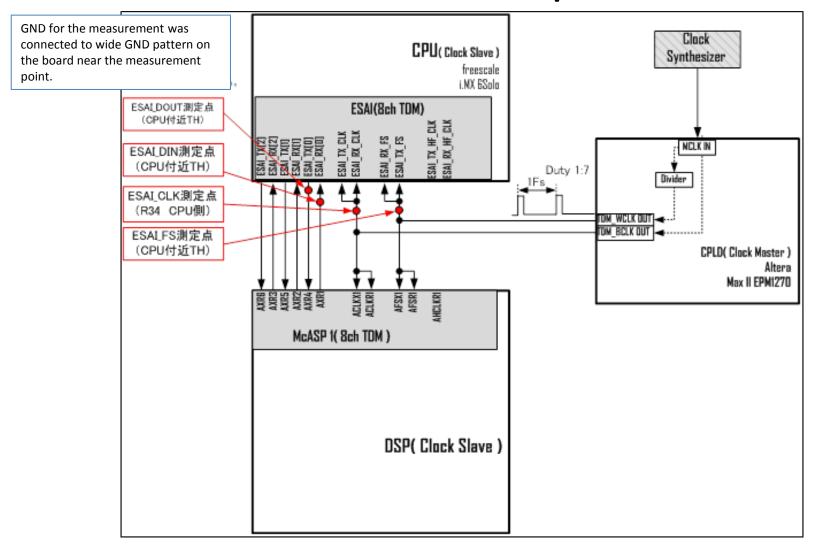# Measurement points

The red points above are the measurement points. Each point should be close to i.MX.

Equipment

- Target board: The customer's board

- measurement equipment:
  - Tektronix DPO4104

- Probe:
  - FET Probe : Tektronix TAP1500(1.5GHz ACTIVE PROBE)

Measured data

		MIN	MAX	Measured data	Judge ment	
BCK	No62 (ESAI_CLK cycle)	30		47.8	OK	ns
BCK	No63 (ESAI_CLK H)	15		22	OK	ns
BCK	No64 (ESAI_CLK L)	15		20.1	OK	ns
BCK-FS	No74 (RX FS rise to CLK fall)	2		26.8	OK	ns
BCK-FS	No90 (TX FS rise to CLK fall)	2		26.8	OK	ns
BCK-FS	No75 (RX CLK fall to FS fall)	2.5		22.7	OK	ns
BCK-FS	No91 (TX CLK fall to FS fall)	4		22.7	OK	ns
BCK-DIN	No72 (CLK fall to DATA hold)	3.5		8.9	OK	ns
BCK-DOUT	No84 (CLK rise to DATA valid)		22	7.2	OK	ns
BCK-DOUT	No86 (CLK rise to DATA valid)		18	7.2	OK	ns
BCK-DOUT	No87 (CLK rise to DATA HiZ)		21	9.8	OK	ns

Each of the numbers above is corresponding to the timing specification written in i.MX6S datasheet. The numbers(No##) written in above table represents the numbers written in Figure 43/44 in datasheet.

Extracts from i.MX6S datasheet

Figure 43. ESAI Transmitter Timing

Figure 44. ESAI Receiver Timing