

Cable_Analysis\Cable_Model Report

2011-05-22 23:25

- **Frequency Response function of Cable_Model**

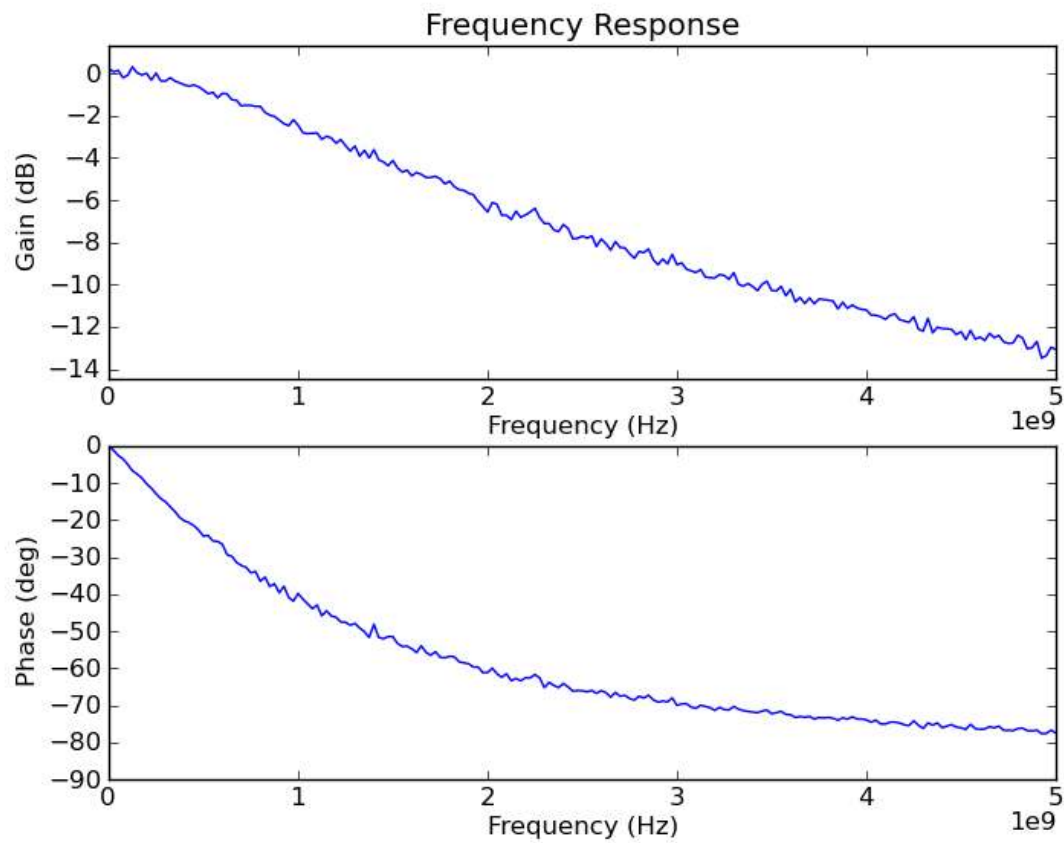


Fig:1 Frequency Response function of Cable_Model

- **Frequency Response function of Equalizer**

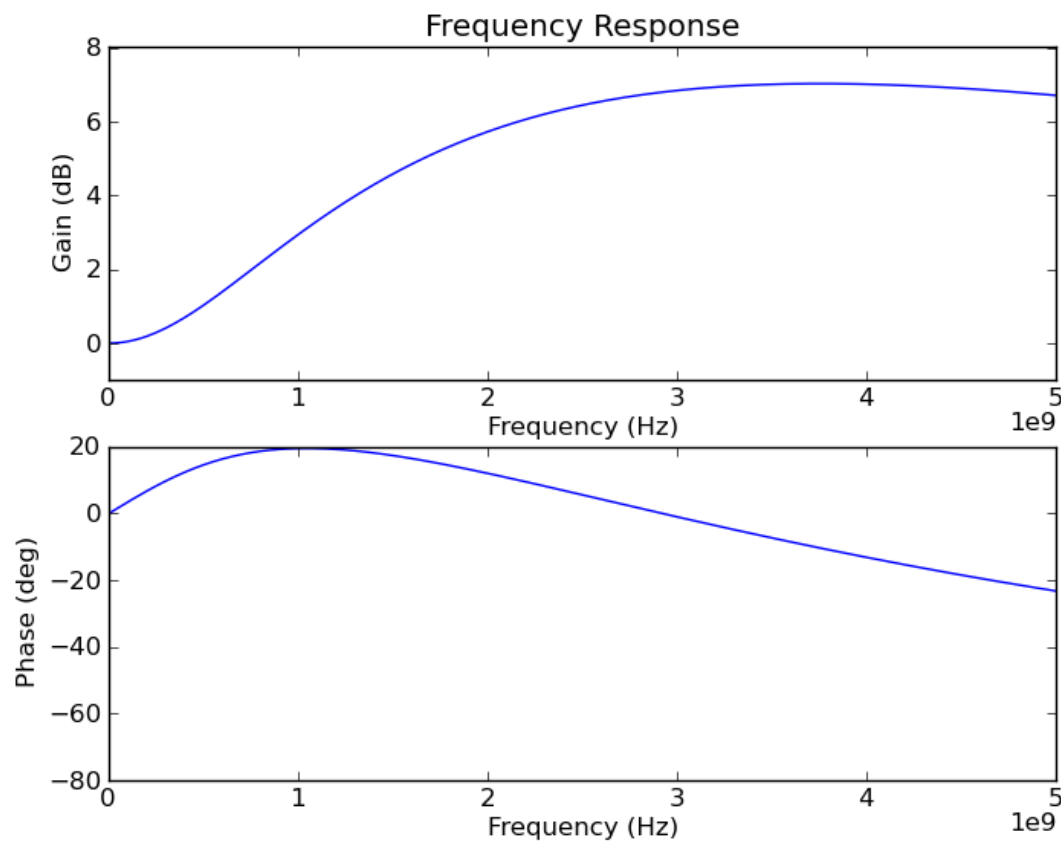


Fig:2 Frequency Response function of Equalizer

Signal Analysis at the generation point

Analog Parameters on CLOCK channel

- Jitter Values on CLOCK

Maximum Measured Data Jitter	TJ(BER=1.000e-12)
2.70810e-11 (s)	4.38680e-11 (s)

- Jitter Components on CLOCK

TJ	DJ	RJ	Qber_r	Qber_l	A_r	A_l
4.3868e-11 (s)	3.3029e-12 (s)	2.9067e-12 (s)	6.9799e+00	6.9755e+00	1.0829e+00	9.1712e-01

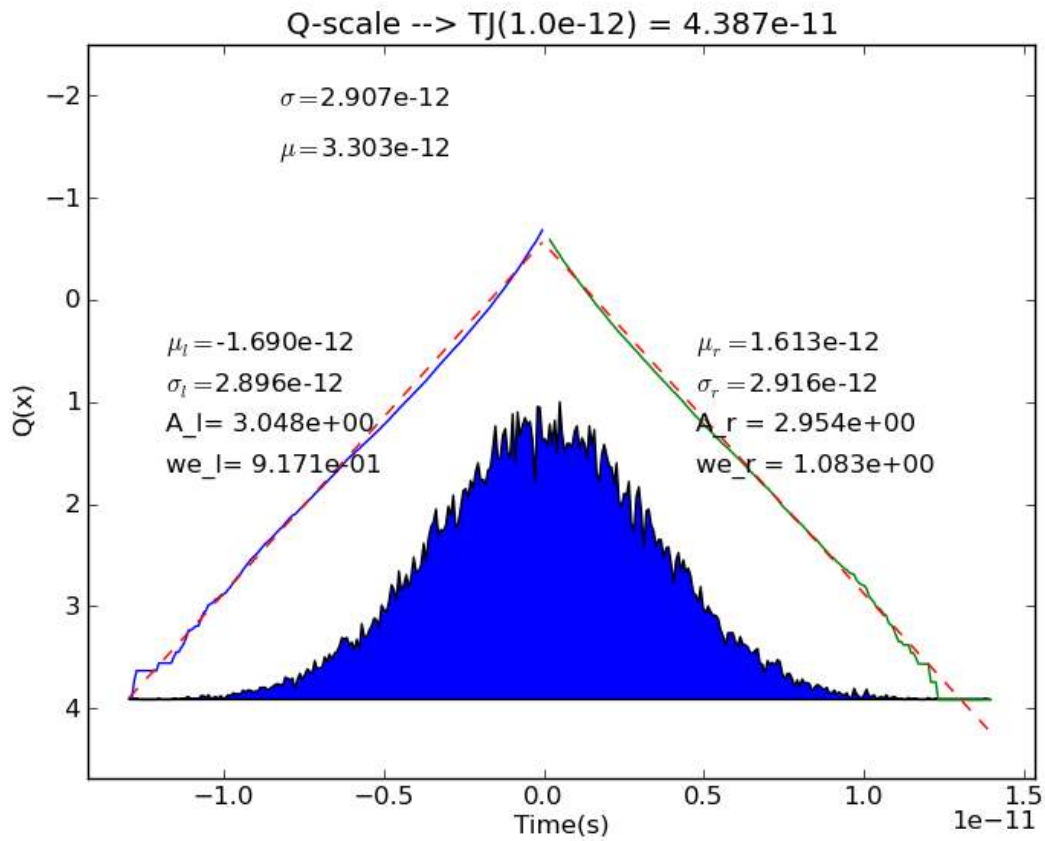


Fig:3 CLOCK Jitter PDF

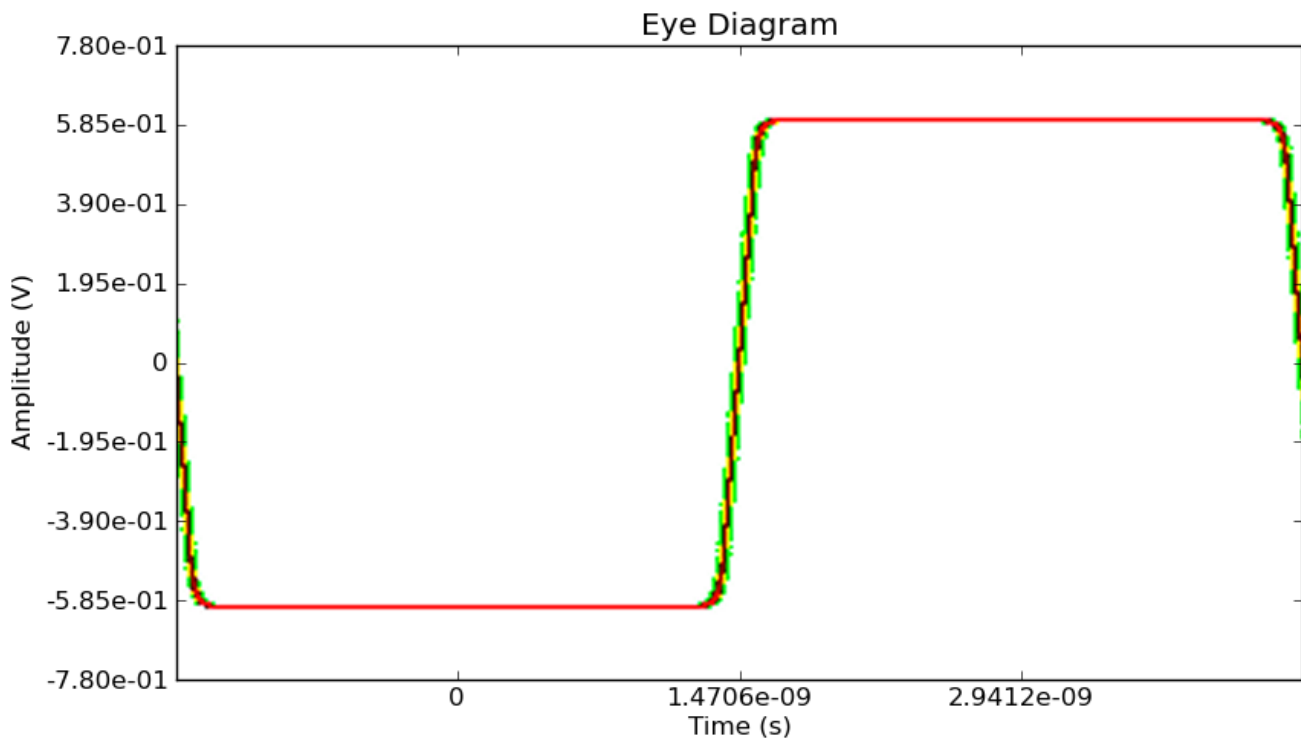


Fig:4 CLOCK Eye Diagram

- o Analog Signal Analysis CLOCK

Test Name	Measured Value
VHIGH - Differential	6.067e-01 (V)
VLOW - Differential	-5.893e-01 (V)

Minimum "1"	6.067e-01 (V)
Minimum "0"	-5.893e-01 (V)
Minimum Rise Time	7.929e-11 (s)

Analog Parameters on DATA channel

o Jitter Values on DATA

Maximum Measured Data Jitter	TJ(BER=1.000e-12)
4.97307e-11 (s)	7.11077e-11 (s)

o Jitter Components on DATA

TJ	DJ	RJ	Qber_r	Qber_l	A_r	A_l
7.1108e-11 (s)	1.9739e-11 (s)	3.7325e-12 (s)	6.8604e+00	6.9024e+00	9.9485e-01	1.0051e+00

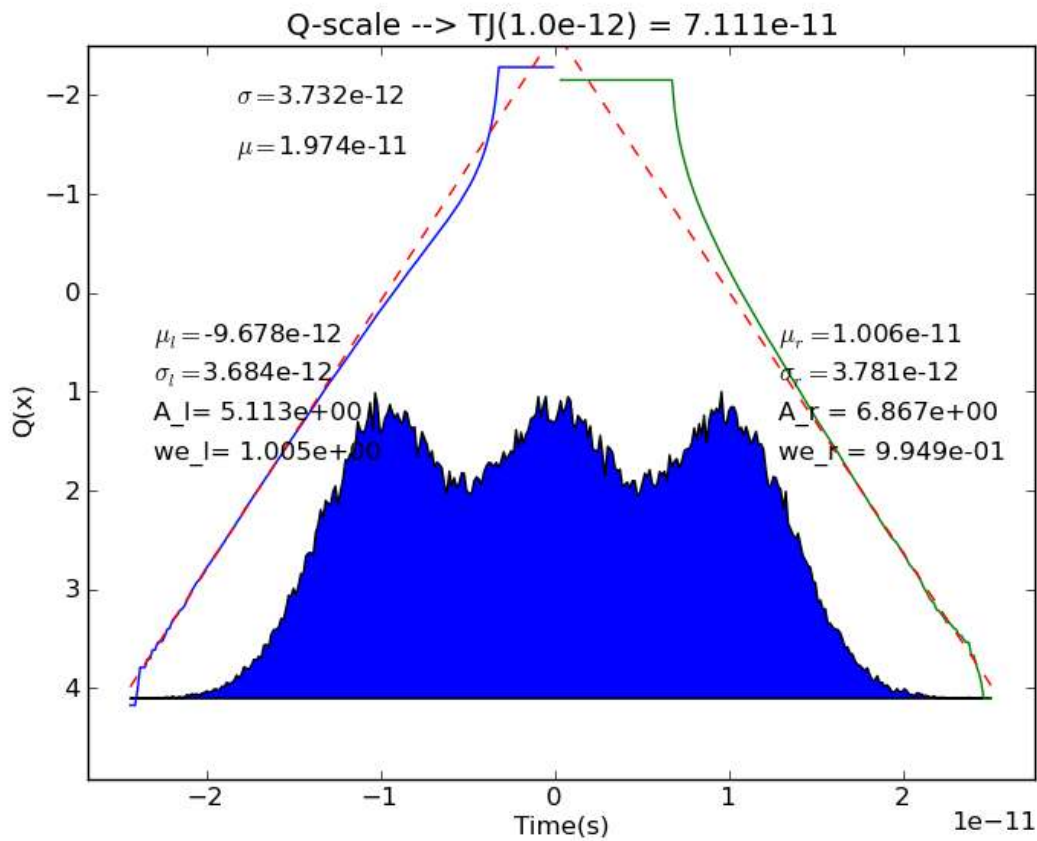


Fig:5 DATA Jitter PDF

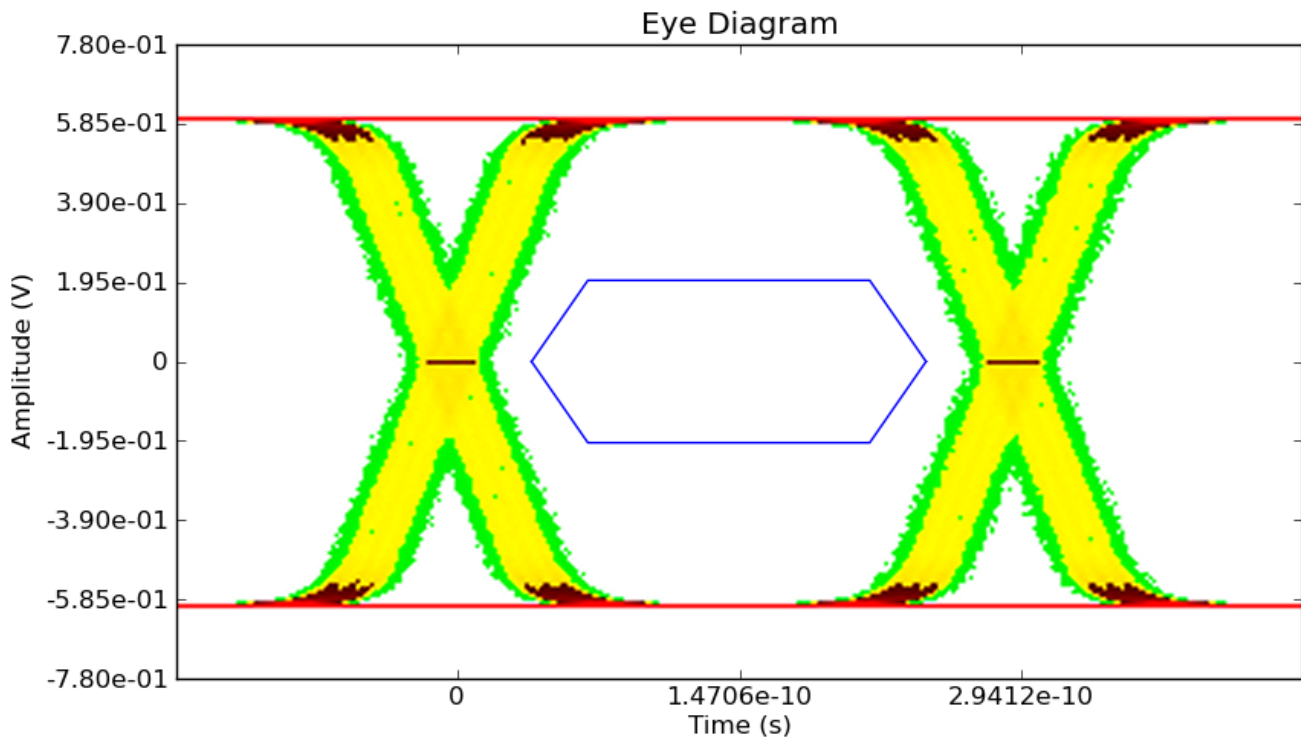


Fig:6 DATA Eye Diagram

- o Analog Signal Analysis DATA

Test Name	Measured Value
VHIGH - Differential	6.067×10^{-1} (V)
VLOW - Differential	-5.893×10^{-1} (V)
Minimum "1"	6.067×10^{-1} (V)
Minimum "0"	-5.893×10^{-1} (V)
Minimum Rise Time	7.924×10^{-11} (s)
Minimum Fall Time	8.797×10^{-11} (s)

Signal Analysis After Cable

Analog Parameters on CLOCK channel

- o Jitter Values on CLOCK

Maximum Measured Data Jitter	TJ(BER=1.000e-12)
2.82718×10^{-11} (s)	4.58052×10^{-11} (s)

- o Jitter Components on CLOCK

TJ	DJ	RJ	Qber_r	Qber_l	A_r	A_l
4.5805×10^{-11} (s)	5.2360×10^{-12} (s)	2.9155×10^{-12} (s)	$6.9545 \times 10^{+00}$	$6.9611 \times 10^{+00}$	$1.0727 \times 10^{+00}$	9.2728×10^{-01}

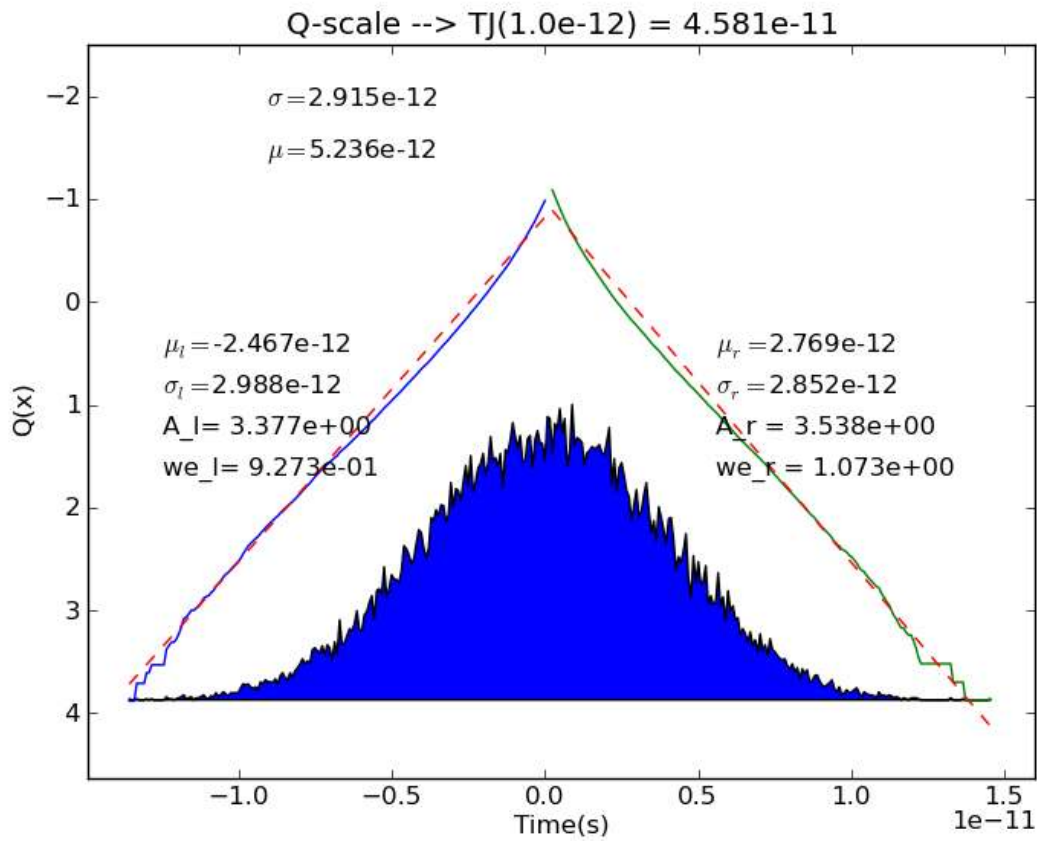


Fig:7 CLOCK Jitter PDF

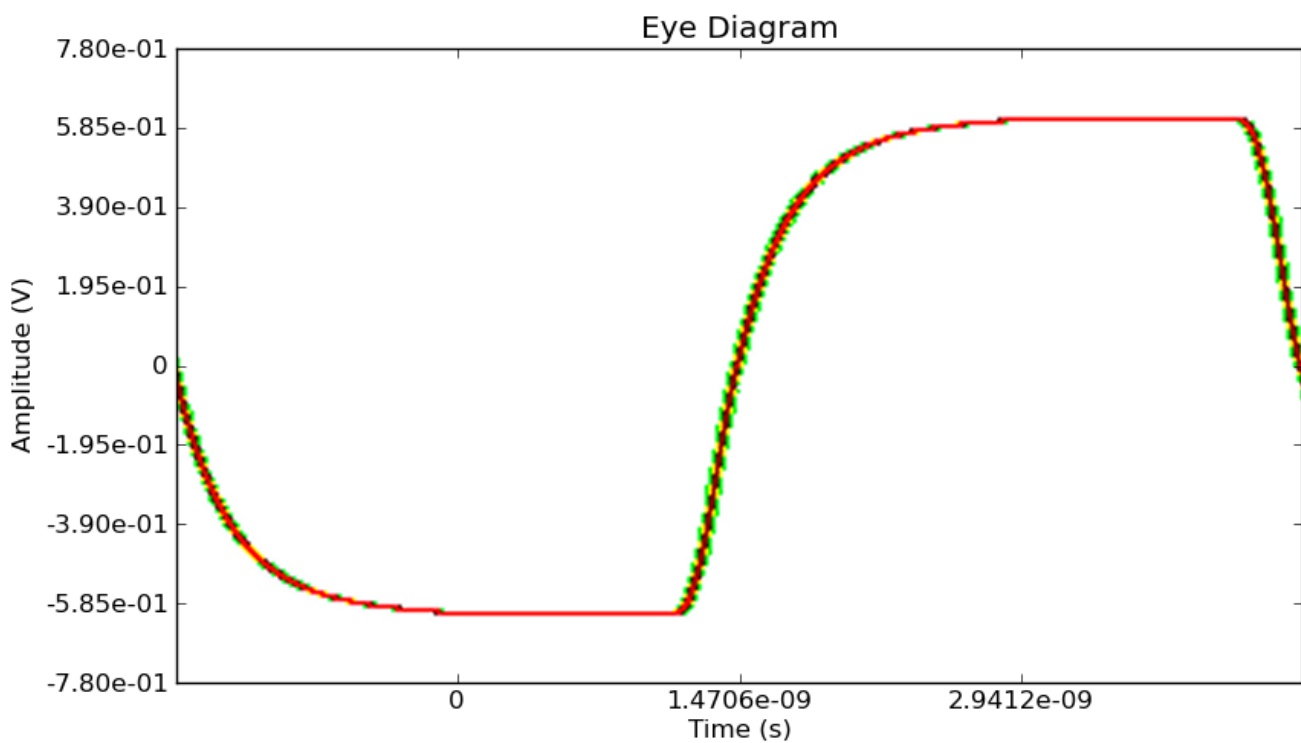


Fig:8 CLOCK Eye Diagram

- o Analog Signal Analysis CLOCK

Test Name	Measured Value
VHIGH - Differential	6.153e-01 (V)
VLOW - Differential	-5.980e-01 (V)

Minimum "1"	6.153e-01 (V)
Minimum "0"	-5.980e-01 (V)
Minimum Rise Time	2.846e-10 (s)

Analog Parameters on DATA channel

Jitter Values on DATA

Maximum Measured Data Jitter	TJ(BER=1.000e-12)
7.23517e-11 (s)	9.67488e-11 (s)

Jitter Components on DATA

TJ	DJ	RJ	Qber_r	Qber_l	A_r	A_l
9.6749e-11 (s)	3.5869e-11 (s)	4.4371e-12 (s)	6.9198e+00	6.7922e+00	1.0246e+00	9.7537e-01

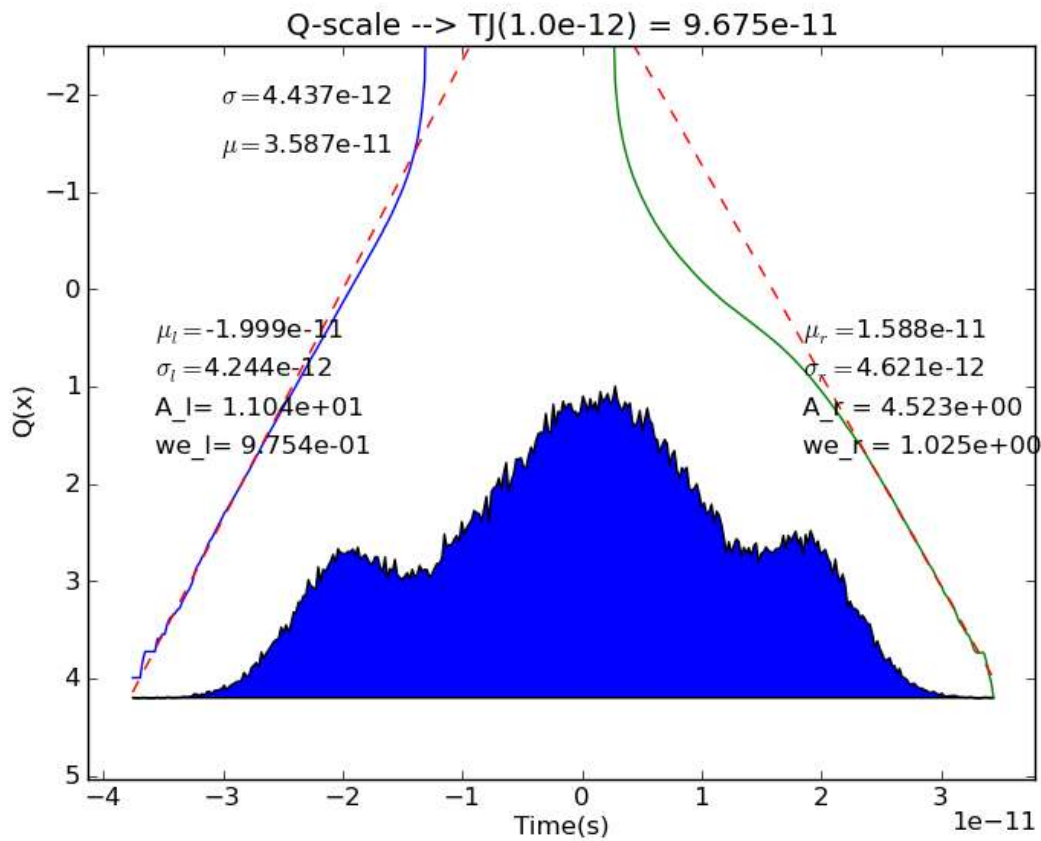


Fig:9 DATA Jitter PDF

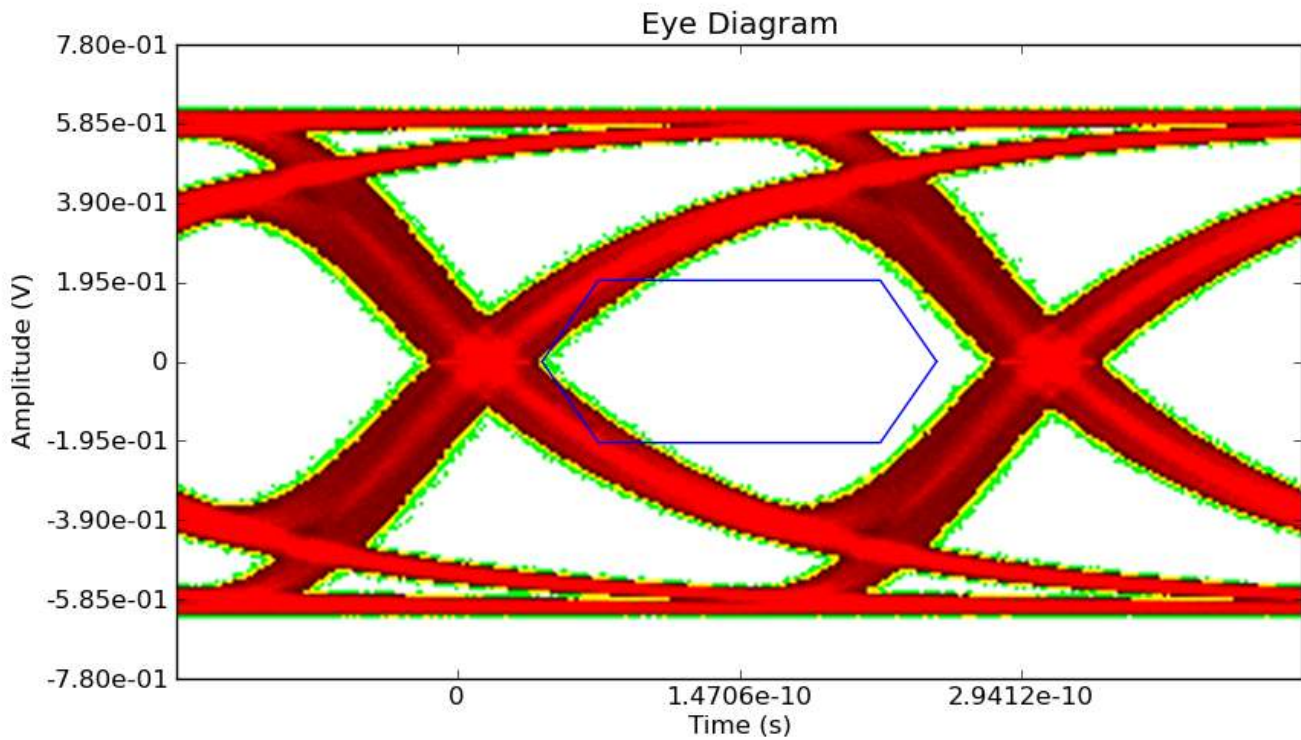


Fig:10 DATA Eye Diagram

- o Analog Signal Analysis DATA

Test Name	Measured Value
VHIGH - Differential	4.871×10^{-1} (V)
VLOW - Differential	-4.682×10^{-1} (V)
Minimum "1"	3.120×10^{-1} (V)
Minimum "0"	-2.947×10^{-1} (V)
Minimum Rise Time	1.341×10^{-10} (s)
Minimum Fall Time	1.372×10^{-10} (s)

Signal Analysis After Equalizer

Analog Parameters on CLOCK channel

- o Jitter Values on CLOCK

Maximum Measured Data Jitter	TJ(BER=1.000e-12)
2.76091×10^{-11} (s)	4.38994×10^{-11} (s)

- o Jitter Components on CLOCK

TJ	DJ	RJ	Qber_r	Qber_l	A_r	A_l
4.3899×10^{-11} (s)	3.4047×10^{-12} (s)	2.9022×10^{-12} (s)	$6.9767 \times 10^{+0}$	$6.9765 \times 10^{+0}$	$1.0554 \times 10^{+0}$	9.4464×10^{-1}

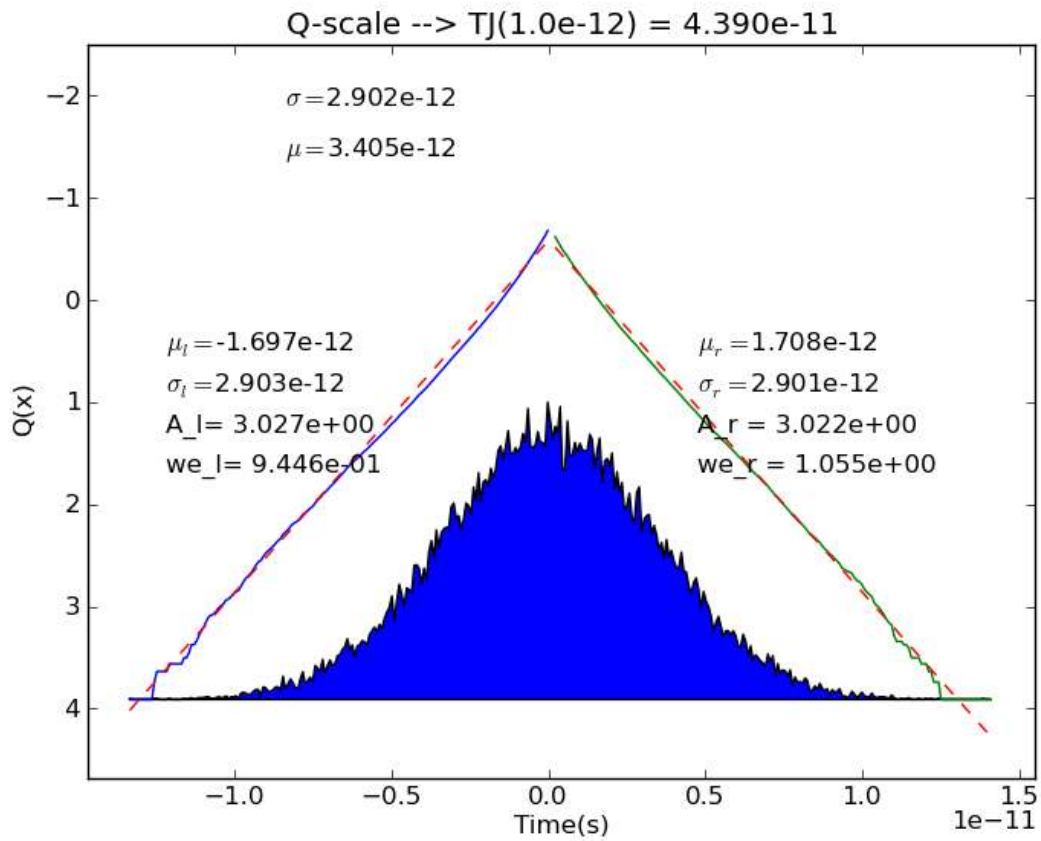


Fig:11 CLOCK Jitter PDF

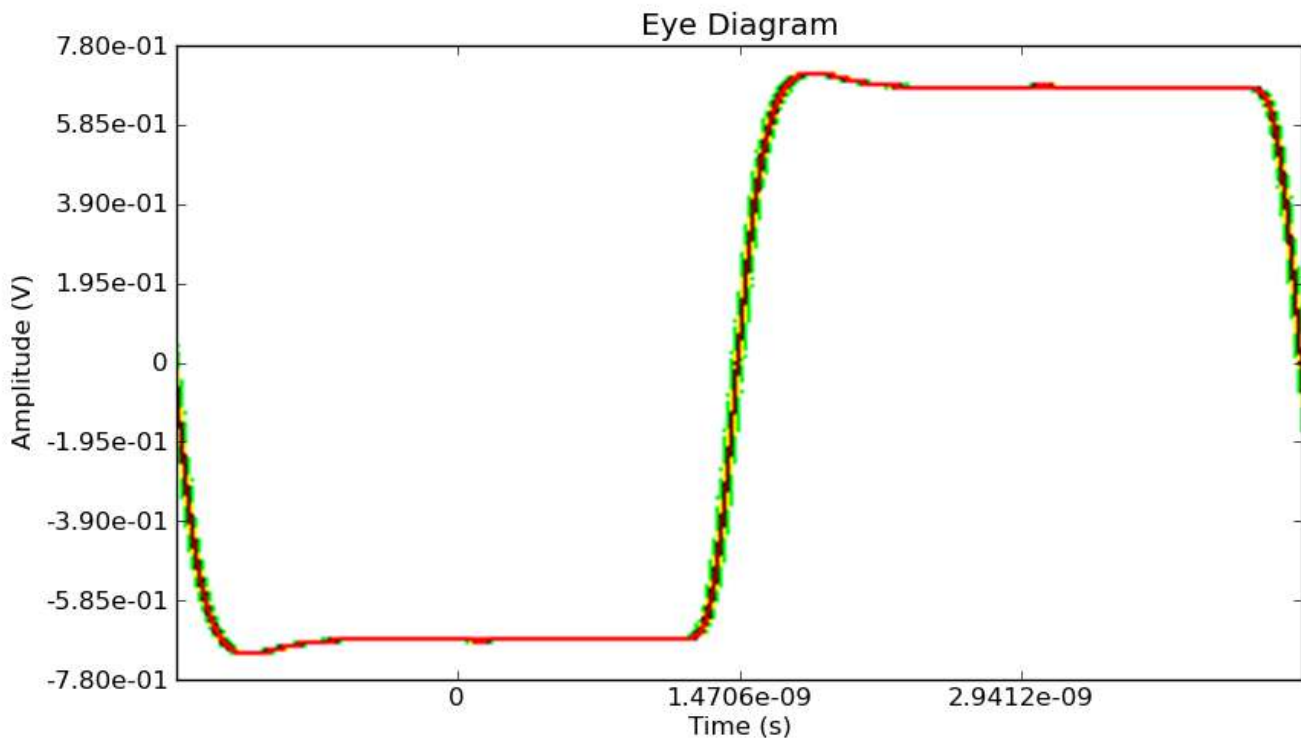


Fig:12 CLOCK Eye Diagram

- o Analog Signal Analysis CLOCK

Test Name	Measured Value
VHIGH - Differential	6.847e-01 (V)
VLOW - Differential	-6.673e-01 (V)

Minimum "1"	6.847e-01 (V)
Minimum "0"	-6.673e-01 (V)
Minimum Rise Time	1.345e-10 (s)

Analog Parameters on DATA channel

Jitter Values on DATA

Maximum Measured Data Jitter	TJ(BER=1.000e-12)
5.30851e-11 (s)	7.41170e-11 (s)

Jitter Components on DATA

TJ	DJ	RJ	Qber_r	Qber_l	A_r	A_l
7.4117e-11 (s)	1.9532e-11 (s)	3.9534e-12 (s)	6.9048e+00	6.9021e+00	1.0587e+00	9.4130e-01

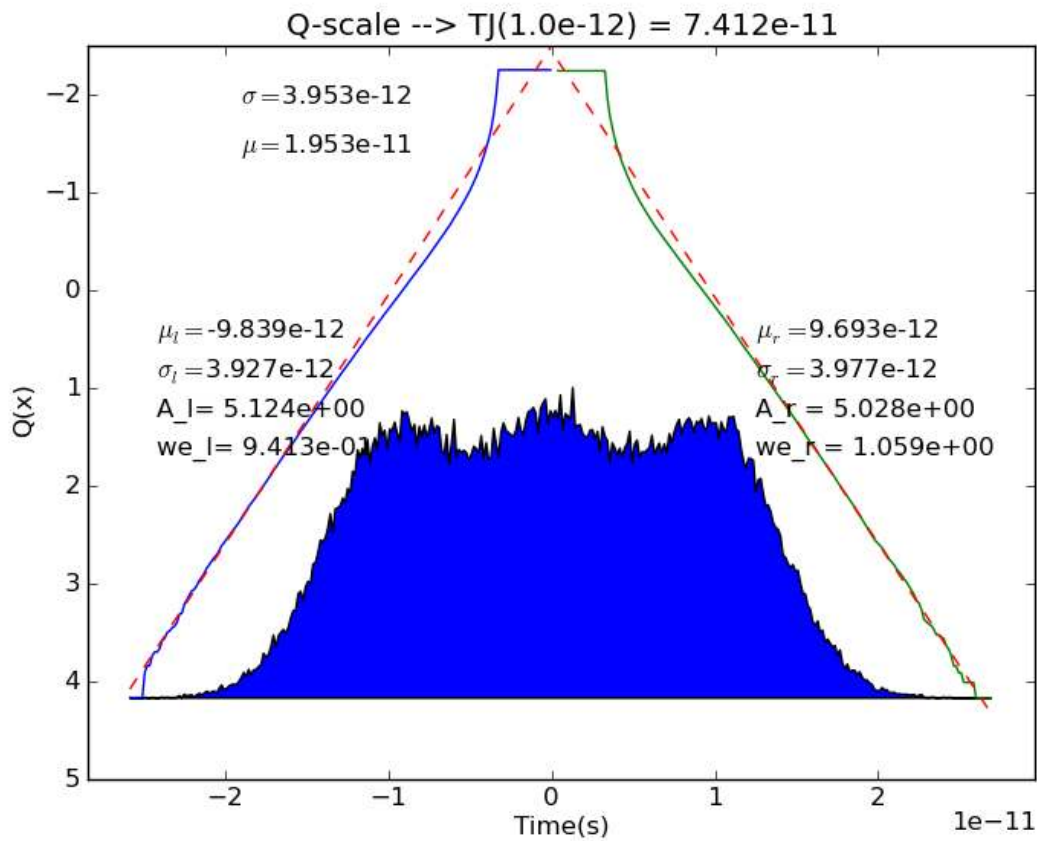


Fig:13 DATA Jitter PDF

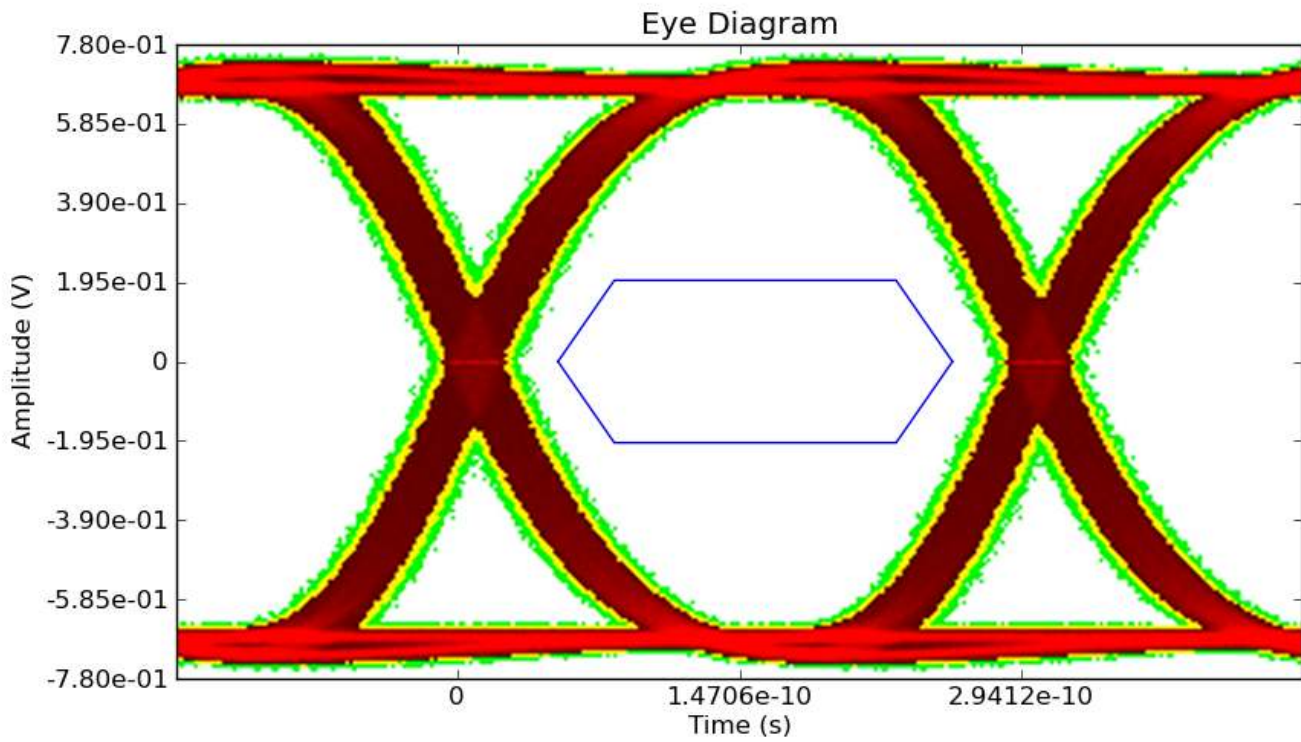


Fig:14 DATA Eye Diagram

o **Analog Signal Analysis DATA**

Test Name	Measured Value
VHIGH - Differential	6.958e-01 (V)
VLOW - Differential	-6.786e-01 (V)
Minimum "1"	6.587e-01 (V)
Minimum "0"	-6.327e-01 (V)
Minimum Rise Time	1.144e-10 (s)
Minimum Fall Time	1.232e-10 (s)