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1 I2C Results

1.1 Test1 Waveform characterestics

Parameter	Specification	Measured Results	Status
Frequency	<100Khz	98.9967E+3Hz	Pass
Clock High	${>}4\mu$ s	4.9526E-6s	Pass
Clock Low	${>}4\mu$ s	5.1487E-6s	Pass
$V_{Clockmax}$	<3.57V	3.4400V	Pass
$V_{Clockmin}$	>5V	0.0E+0V	Pass
$V_{Clockih}$	2.31-3.6V	3.2800V	Pass
$V_{Clockil}$	599V	80.0000E-3V	Pass
$V_{Datamax}$	<3.57V	3.4400V	Pass
$V_{Datamin}$	>5V	-160.0000E-3V	Pass
V_{Dataih}	2.31-3.6V	3.2800V	Pass
V_{Datail}	599V	80.0000E-3V	Pass
Clock Rise Time	<1000ns	349.8730E-9s	Pass
Clock Fall Time	<300ns	82.0312E-9s	Pass
Data Rise Time	<1000ns	306.5365E-9s	Pass
Data Fall Time	<300ns	79.9902E-9s	Pass
Data Setup Time	>250ns	460.0415E-9s	Pass
Data Hold time	> 0ns	4.7482E-6s	Pass
Start Condition Hold Time	$>$ 4 μ s	4.7018E-6s	Pass
Stop Condition Setup Time	$>$ 4 μ s	5.4740E-6s	Pass



Test1/Test1.png

Figure 1: Waveform

1.2 Test2 Waveform characterestics



Test1/Test1DataHoldTime.png

Figure 2: Data Hold Time

1.3 Test3 Waveform characterestics



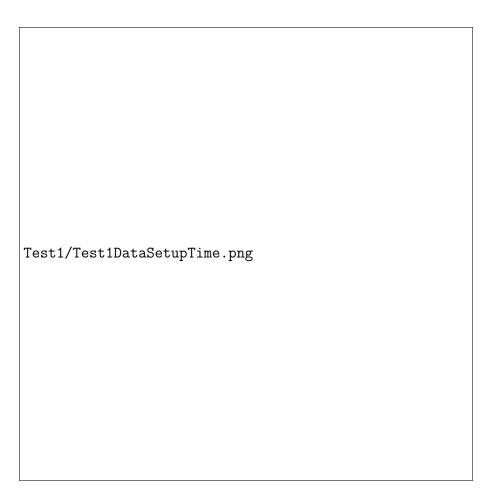


Figure 3: Data Setup Time



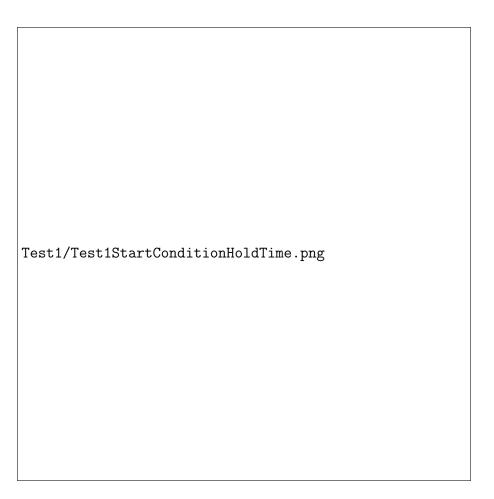


Figure 4: Start Condition



Parameter	Specification	Measured Results	Status
Frequency	<100Khz	98.9967E+3Hz	Pass
Clock High	${>}4\mu$ s	4.9526E-6s	Pass
Clock Low	${>}4\mu$ s	5.1487E-6s	Pass
$V_{Clockmax}$	<3.57V	3.4400V	Pass
$V_{Clockmin}$	>5V	0.0E+0V	Pass
$V_{Clockih}$	2.31-3.6V	3.2800V	Pass
$V_{Clockil}$	599V	80.0000E-3V	Pass
$V_{Datamax}$	<3.57V	3.4400V	Pass
$V_{Datamin}$	>5V	-160.0000E-3V	Pass
V_{Dataih}	2.31-3.6V	3.2800V	Pass
V_{Datail}	599V	80.0000E-3V	Pass
Clock Rise Time	<1000ns	349.8730E-9s	Pass
Clock Fall Time	<300ns	82.0312E-9s	Pass
Data Rise Time	<1000ns	306.5365E-9s	Pass
Data Fall Time	<300ns	79.9902E-9s	Pass
Data Setup Time	>250ns	460.0415E-9s	Pass
Data Hold time	> 0ns	4.7482E-6s	Pass
Start Condition Hold Time	$>$ 4 μ s	4.7018E-6s	Pass
Stop Condition Setup Time	$>$ 4 μ s	5.4740E-6s	Pass

Parameter	Specification	Measured Results	Status
Frequency	<100Khz	98.9967E+3Hz	Pass
Clock High	${>}4\mu$ S	4.9526E-6s	Pass
Clock Low	${>}4\mu$ S	5.1487E-6s	Pass
$V_{Clockmax}$	<3.57V	3.4400V	Pass
$V_{Clockmin}$	>5V	0.0E+0V	Pass
$V_{Clockih}$	2.31-3.6V	3.2800V	Pass
$V_{Clockil}$	599V	80.0000E-3V	Pass
$V_{Datamax}$	<3.57V	3.4400V	Pass
$V_{Datamin}$	>5V	-160.0000E-3V	Pass
V_{Dataih}	2.31-3.6V	3.2800V	Pass
V_{Datail}	599V	80.0000E-3V	Pass
Clock Rise Time	<1000ns	349.8730E-9s	Pass
Clock Fall Time	<300ns	82.0312E-9s	Pass
Data Rise Time	<1000ns	306.5365E-9s	Pass
Data Fall Time	<300ns	79.9902E-9s	Pass
Data Setup Time	>250ns	460.0415E-9s	Pass
Data Hold time	> 0ns	4.7482E-6s	Pass
Start Condition Hold Time	$>$ 4 μ s	4.7018E-6s	Pass
Stop Condition Setup Time	$>$ 4 μ s	5.4740E-6s	Pass



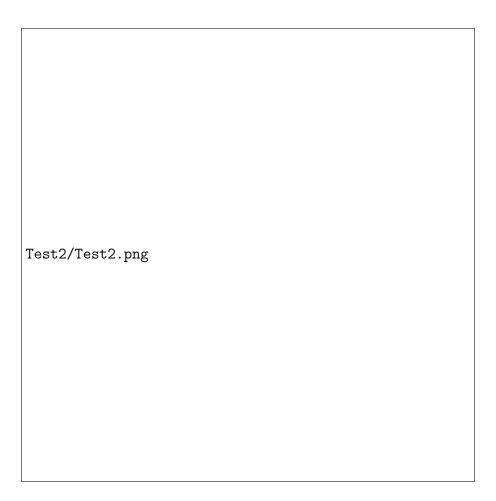


Figure 5: Waveform



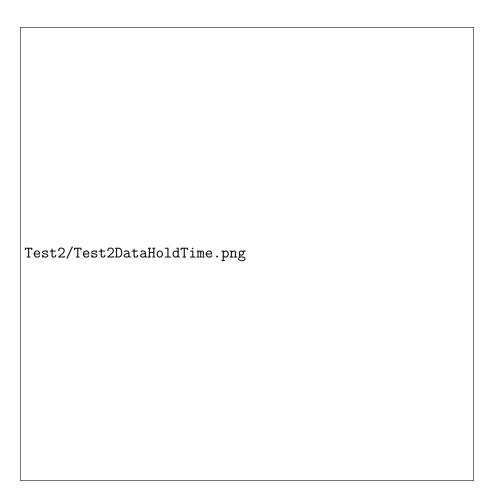


Figure 6: Data Hold Time



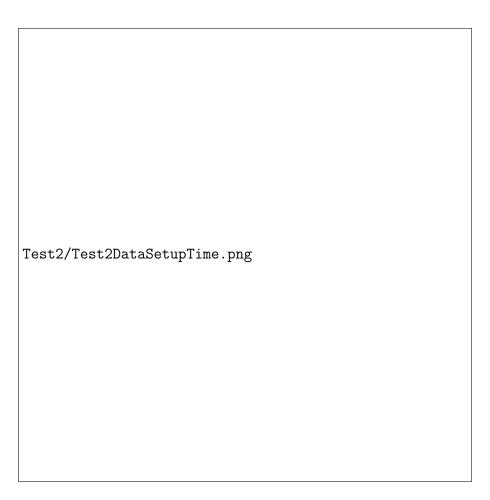


Figure 7: Data Setup Time



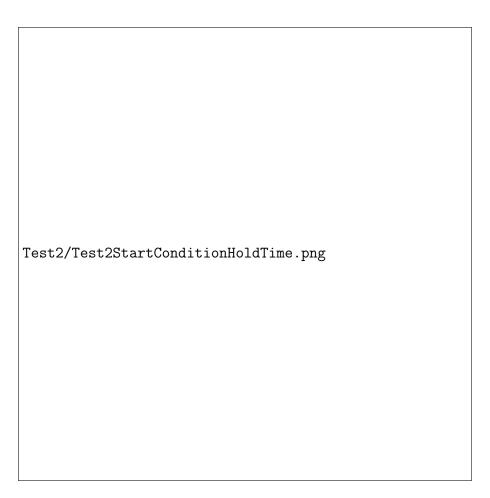


Figure 8: Start Condition



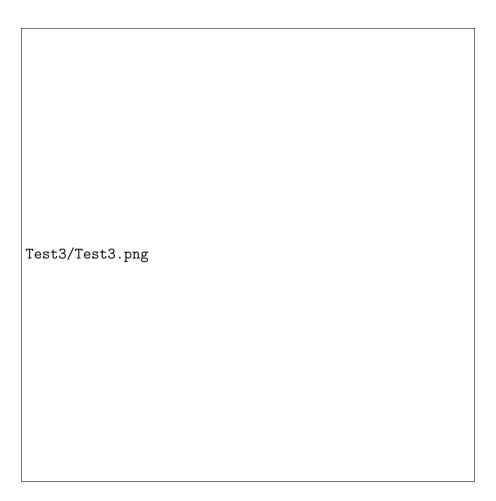


Figure 9: Waveform



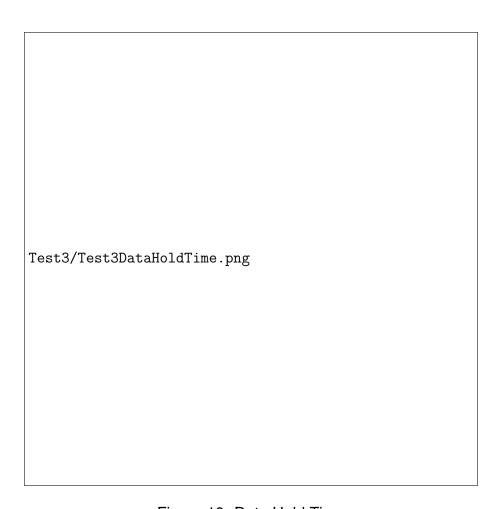


Figure 10: Data Hold Time



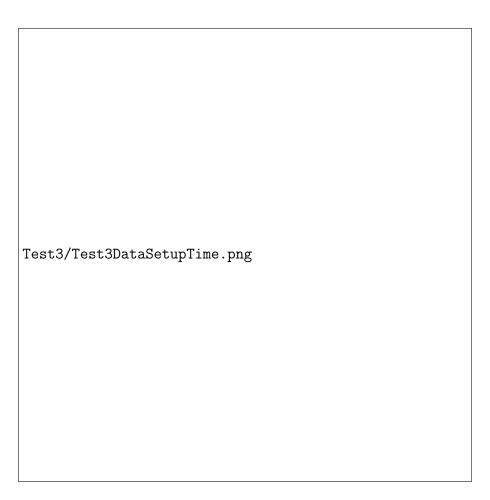


Figure 11: Data Setup Time



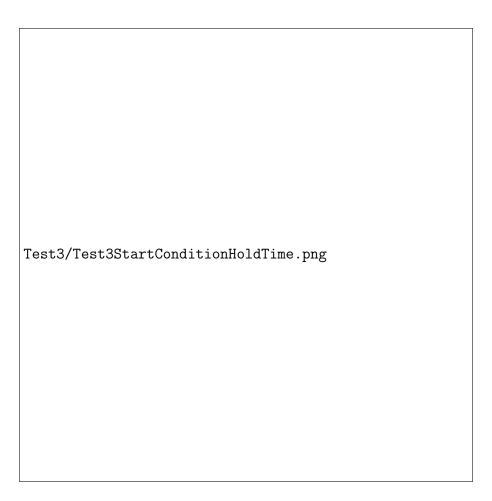


Figure 12: Start Condition