

## Reliability test summaries for AO4611

Item	Test	Condition	Time Point	Samples per Lot	Comment	Quantity of testing	Quantity of failures
1	Solder Reflow Precondition	1 hr Pressure Pot, 3 Cycle of IR Reflow @240°C	0 hr	80	JESD22-A113-A	80	0
2	Temperature Cycling	-65°C to + 150°C air to air	250 cyc 500cyc 1000cyc	80	MIL-STD-883	80	0
3	Pressure Pot	+121°C, 15± PSIG, RH=100%	96 hr	80	JESD22-A102-B	80	0
4	HAST	+130°C, 85± %RH, 33.3 psi Vgs=80VGS MAX	50 hr 100hr	80	JESD22-A110-A	80	0
5	HTRB	Ta=150°C Vgs=80% VDS MAX	168 hr 500 hr 1000hr	80		80	0
6	HTGB	Ta=150°C Vgs=100% VGS MAX	168 hr 500 hr 1000hr	80		80	0
7	DPA	Internal Vision Cross-section X-Ray	N/A	15	un-mode devices	15	0
			N/A	5	mold devices	5	0
			N/A	5	information only	5	0
8	C-SAM		N/A	5		5	0
9	Bond Integrity	Room Temp	0 hr	40 wires	MIL-STD-883 M20117	40	0
		150°C Bake	250 hr	40 wires		40	0
		150°C Bake	500 hr	40 wires		40	0
10	Solderability	230±°C, 5 sec	8 hr	15 leads	MIL-STD-883 M2003	15	0
11	Die Shear		0 hr	10	MIL-STD-883 M2019	10	0

Part Number: AO4611

Package Type: Complementary Enhancement Mode Field Effect Transistor

Wafer ID: P281/N281 FA3X-5047-C / #5 FA38-5007 / # 10

Test Name and Conditions: HTGB: N-CH VGS=20V, VDS=0V/P-CH VGS=-20V, VDS=0V, 150C

P-channel	IGSS	IGSS	IDSS	BVDSS	VGSTH	RDSON	RDSON	VFSDS	IGSS	IGSS	IDSS
Item Name	IGSS	IGSS	IDSS	BVDSS	VGSTH	RDSON	RDSON	VFSDS	IGSS	IGSS	IDSS
Serial#											
1	9.22E-10	1.92E-09	6.40E-09	6.78E+01	2.06E+00	3.34E-02	4.29E-02	7.49E-01	1.63E-09	1.35E-09	6.80E-09
2	2.33E-09	2.51E-09	6.76E-09	6.78E+01	2.04E+00	3.35E-02	4.30E-02	7.49E-01	1.51E-09	1.36E-09	7.06E-09
3	1.15E-09	1.48E-09	7.21E-09	6.77E+01	2.05E+00	3.35E-02	4.29E-02	7.49E-01	2.38E-09	1.97E-09	7.24E-09
4	2.36E-09	2.89E-09	2.44E-08	6.70E+01	2.07E+00	3.28E-02	4.25E-02	7.50E-01	3.64E-09	2.71E-09	1.38E-08
5	1.02E-09	1.65E-09	7.56E-09	6.71E+01	2.07E+00	3.32E-02	4.29E-02	7.48E-01	1.64E-09	1.27E-09	7.80E-09
6	1.30E-09	1.72E-09	7.66E-09	6.69E+01	2.09E+00	3.30E-02	4.29E-02	7.50E-01	2.54E-09	1.48E-09	7.88E-09
7	2.00E-09	2.67E-09	6.92E-09	6.79E+01	2.06E+00	3.36E-02	4.31E-02	7.50E-01	2.89E-09	2.34E-09	6.87E-09
8	2.30E-09	2.58E-09	6.83E-09	6.77E+01	2.05E+00	3.35E-02	4.28E-02	7.49E-01	2.78E-09	2.44E-09	6.48E-09
9	1.76E-09	2.88E-09	6.02E-09	6.83E+01	2.03E+00	3.38E-02	4.30E-02	7.49E-01	1.72E-09	1.52E-09	7.02E-09
10	1.03E-09	1.81E-09	5.98E-09	7.02E+01	2.02E+00	3.56E-02	4.48E-02	7.48E-01	1.76E-09	1.33E-09	6.80E-09
11	1.04E-09	2.41E-09	6.48E-09	6.85E+01	2.03E+00	3.39E-02	4.31E-02	7.49E-01	1.85E-09	1.62E-09	6.66E-09
12	9.31E-10	1.78E-09	5.97E-09	7.01E+01	2.02E+00	3.53E-02	4.45E-02	7.49E-01	1.83E-09	1.20E-09	6.22E-09
13	2.17E-09	2.59E-09	6.06E-09	6.91E+01	2.06E+00	3.46E-02	4.41E-02	7.50E-01	1.64E-09	1.46E-09	6.89E-09
14	1.76E-09	1.98E-09	6.89E-09	6.77E+01	2.07E+00	3.36E-02	4.31E-02	7.50E-01	2.57E-09	2.20E-09	6.70E-09
15	1.60E-09	1.88E-09	6.61E-09	7.07E+01	2.02E+00	3.59E-02	4.50E-02	7.48E-01	2.69E-09	2.40E-09	6.61E-09
16	1.68E-09	2.05E-09	6.55E-09	6.81E+01	2.04E+00	3.38E-02	4.30E-02	7.49E-01	2.36E-09	2.38E-09	6.41E-09
17	2.13E-09	2.52E-09	7.09E-09	6.81E+01	2.04E+00	3.38E-02	4.31E-02	7.49E-01	2.99E-09	2.28E-09	7.14E-09
18	1.02E-09	1.56E-09	7.49E-09	6.76E+01	2.06E+00	3.35E-02	4.31E-02	7.49E-01	2.76E-09	2.09E-09	7.58E-09
19	9.27E-10	1.75E-09	6.61E-09	6.77E+01	2.06E+00	3.35E-02	4.30E-02	7.49E-01	1.71E-09	1.20E-09	7.03E-09
20	1.60E-09	2.54E-09	6.89E-09	6.78E+01	2.07E+00	3.36E-02	4.33E-02	7.49E-01	1.58E-09	1.19E-09	7.11E-09
21	1.15E-09	2.57E-09	6.58E-09	6.79E+01	2.06E+00	3.39E-02	4.35E-02	7.49E-01	2.23E-09	1.23E-09	6.83E-09
22	1.93E-09	2.66E-09	6.45E-09	6.91E+01	2.06E+00	3.48E-02	4.43E-02	7.49E-01	2.07E-09	2.13E-09	6.79E-09
23	1.02E-09	1.56E-09	6.08E-09	6.93E+01	2.06E+00	3.52E-02	4.45E-02	7.49E-01	1.71E-09	1.28E-09	6.22E-09
24	2.23E-09	2.29E-09	6.34E-09	6.89E+01	2.06E+00	3.48E-02	4.43E-02	7.49E-01	1.83E-09	1.89E-09	6.41E-09
25	2.12E-09	2.56E-09	7.05E-09	6.77E+01	2.07E+00	3.35E-02	4.32E-02	7.49E-01	1.85E-09	1.77E-09	7.13E-09
26	1.81E-09	2.05E-09	7.92E-09	6.70E+01	2.09E+00	3.31E-02	4.30E-02	7.50E-01	2.69E-09	2.03E-09	8.17E-09
27	1.41E-09	1.80E-09	7.06E-09	6.70E+01	2.08E+00	3.33E-02	4.30E-02	7.49E-01	2.00E-09	1.37E-09	7.84E-09
28	1.20E-09	2.33E-09	8.02E-09	6.67E+01	2.11E+00	3.29E-02	4.30E-02	7.50E-01	2.83E-09	1.82E-09	8.08E-09
29	1.71E-09	2.45E-09	8.08E-09	6.67E+01	2.11E+00	3.32E-02	4.34E-02	7.50E-01	2.09E-09	1.90E-09	8.38E-09
30	2.18E-09	2.50E-09	7.79E-09	6.67E+01	2.12E+00	3.27E-02	4.31E-02	7.50E-01	1.72E-09	1.31E-09	8.73E-09
31	2.01E-09	2.77E-09	7.92E-09	6.66E+01	2.11E+00	3.29E-02	4.31E-02	7.50E-01	1.76E-09	1.71E-09	8.70E-09
32	1.95E-09	2.46E-09	7.86E-09	6.66E+01	2.12E+00	3.29E-02	4.33E-02	7.50E-01	2.28E-09	1.59E-09	8.28E-09
33	1.05E-09	1.81E-09	7.72E-09	6.68E+01	2.13E+00	3.29E-02	4.34E-02	7.50E-01	1.71E-09	1.44E-09	8.64E-09
34	2.23E-09	2.55E-09	8.01E-09	6.66E+01	2.12E+00	3.26E-02	4.30E-02	7.50E-01	2.63E-09	2.24E-09	8.12E-09
35	1.82E-09	1.73E-09	8.30E-09	6.66E+01	2.12E+00	3.28E-02	4.31E-02	7.50E-01	3.02E-09	2.02E-09	8.08E-09
36	1.31E-09	1.64E-09	8.26E-09	6.69E+01	2.13E+00	3.28E-02	4.34E-02	7.50E-01	2.34E-09	1.42E-09	8.86E-09

37	1.91E-09	2.59E-09	8.10E-09	6.67E+01	2.10E+00	3.31E-02	4.32E-02	7.49E-01	2.81E-09	2.16E-09	8.25E-09
38	1.13E-09	1.47E-09	7.95E-09	6.68E+01	2.09E+00	3.29E-02	4.28E-02	7.49E-01	3.00E-09	2.02E-09	7.99E-09
39	1.44E-09	2.21E-09	7.71E-09	6.67E+01	2.13E+00	3.28E-02	4.33E-02	7.50E-01	1.96E-09	1.67E-09	8.06E-09
40	1.61E-09	2.36E-09	7.73E-09	6.66E+01	2.11E+00	3.29E-02	4.32E-02	7.50E-01	2.37E-09	1.70E-09	7.85E-09
41	1.34E-09	1.99E-09	7.93E-09	6.67E+01	2.11E+00	3.34E-02	4.36E-02	7.50E-01	1.73E-09	1.42E-09	8.22E-09
42	2.12E-09	2.52E-09	8.01E-09	6.66E+01	2.10E+00	3.32E-02	4.33E-02	7.50E-01	2.71E-09	2.35E-09	7.99E-09
43	1.33E-09	1.66E-09	8.04E-09	6.66E+01	2.10E+00	3.31E-02	4.32E-02	7.50E-01	2.81E-09	2.33E-09	8.28E-09
44	1.74E-09	2.31E-09	7.80E-09	6.67E+01	2.09E+00	3.29E-02	4.30E-02	7.49E-01	1.81E-09	1.16E-09	8.14E-09
45	1.01E-09	1.78E-09	8.17E-09	6.67E+01	2.09E+00	3.30E-02	4.31E-02	7.50E-01	2.94E-09	2.35E-09	8.60E-09
46	1.02E-09	1.48E-09	8.19E-09	6.72E+01	2.07E+00	3.32E-02	4.31E-02	7.49E-01	3.05E-09	2.06E-09	7.94E-09
47	1.95E-09	2.32E-09	7.54E-09	6.74E+01	2.07E+00	3.35E-02	4.34E-02	7.49E-01	2.27E-09	2.54E-09	7.95E-09
48	1.22E-09	1.73E-09	6.35E-09	7.04E+01	2.05E+00	3.57E-02	4.54E-02	7.49E-01	2.11E-09	1.39E-09	7.03E-09
49	1.99E-09	2.71E-09	6.59E-09	7.03E+01	2.05E+00	3.57E-02	4.55E-02	7.49E-01	2.14E-09	1.22E-09	7.36E-09
50	2.16E-09	3.05E-09	8.44E-09	6.67E+01	2.09E+00	3.30E-02	4.32E-02	7.49E-01	3.11E-09	2.25E-09	8.72E-09
51	1.19E-09	1.89E-09	7.39E-09	6.73E+01	2.07E+00	3.35E-02	4.34E-02	7.49E-01	2.26E-09	1.25E-09	8.44E-09
52	1.22E-09	1.65E-09	7.94E-09	6.66E+01	2.10E+00	3.33E-02	4.35E-02	7.50E-01	2.27E-09	1.33E-09	8.44E-09
53	1.14E-09	1.84E-09	7.74E-09	6.66E+01	2.10E+00	3.33E-02	4.34E-02	7.50E-01	1.95E-09	1.48E-09	7.92E-09
54	1.18E-09	1.60E-09	8.08E-09	6.72E+01	2.07E+00	3.33E-02	4.33E-02	7.49E-01	1.94E-09	1.21E-09	8.85E-09
55	1.19E-09	1.83E-09	8.24E-09	6.66E+01	2.09E+00	3.31E-02	4.32E-02	7.49E-01	2.38E-09	1.44E-09	8.58E-09
56	1.71E-09	2.30E-09	8.34E-09	6.67E+01	2.11E+00	3.32E-02	4.34E-02	7.50E-01	2.44E-09	1.88E-09	8.55E-09
57	1.74E-09	2.49E-09	6.96E-09	6.78E+01	2.04E+00	3.36E-02	4.30E-02	7.48E-01	2.29E-09	1.88E-09	7.41E-09
58	1.01E-09	1.73E-09	7.24E-09	6.71E+01	2.06E+00	3.30E-02	4.25E-02	7.48E-01	2.55E-09	1.31E-09	7.70E-09
59	1.99E-09	2.75E-09	7.18E-09	6.70E+01	2.07E+00	3.30E-02	4.27E-02	7.48E-01	1.84E-09	1.36E-09	7.61E-09
60	9.47E-10	1.47E-09	7.47E-09	6.68E+01	2.08E+00	3.28E-02	4.27E-02	7.49E-01	2.28E-09	1.20E-09	7.85E-09
61	1.22E-09	1.62E-09	7.33E-09	6.72E+01	2.06E+00	3.32E-02	4.29E-02	7.49E-01	2.06E-09	1.24E-09	8.23E-09
62	1.97E-09	1.90E-09	8.20E-09	6.70E+01	2.09E+00	3.30E-02	4.30E-02	7.49E-01	2.96E-09	1.92E-09	8.29E-09
63	1.19E-09	1.40E-09	8.10E-09	6.71E+01	2.08E+00	3.36E-02	4.34E-02	7.49E-01	2.79E-09	2.29E-09	8.27E-09
64	1.03E-09	1.51E-09	7.04E-09	6.89E+01	2.04E+00	3.44E-02	4.40E-02	7.48E-01	1.88E-09	1.22E-09	7.60E-09
65	9.46E-10	1.95E-09	7.25E-09	6.87E+01	2.04E+00	3.44E-02	4.39E-02	7.48E-01	2.54E-09	1.60E-09	7.60E-09
66	1.58E-09	2.78E-09	7.14E-09	6.84E+01	2.04E+00	3.42E-02	4.38E-02	7.48E-01	1.66E-09	1.18E-09	8.08E-09
67	1.80E-09	2.53E-09	7.68E-09	6.72E+01	2.07E+00	3.33E-02	4.31E-02	7.48E-01	2.15E-09	1.86E-09	7.92E-09
68	9.91E-10	1.36E-09	7.95E-09	6.71E+01	2.07E+00	3.32E-02	4.30E-02	7.48E-01	2.95E-09	1.76E-09	8.51E-09
69	1.23E-09	1.34E-09	8.01E-09	6.68E+01	2.09E+00	3.30E-02	4.29E-02	7.49E-01	2.86E-09	2.26E-09	8.51E-09
70	2.22E-09	2.37E-09	7.67E-09	6.68E+01	2.09E+00	3.31E-02	4.30E-02	7.49E-01	2.32E-09	1.89E-09	7.98E-09
71	1.44E-09	2.32E-09	7.55E-09	6.77E+01	2.08E+00	3.41E-02	4.40E-02	7.48E-01	1.75E-09	1.29E-09	8.50E-09
72	1.76E-09	2.65E-09	7.09E-09	6.78E+01	2.09E+00	3.40E-02	4.39E-02	7.49E-01	2.79E-09	1.89E-09	7.40E-09
73	1.02E-09	1.75E-09	7.65E-09	7.05E+01	2.09E+00	3.61E-02	4.62E-02	7.49E-01	2.87E-09	1.94E-09	7.90E-09
74	2.14E-09	2.07E-09	6.95E-09	7.02E+01	2.09E+00	3.58E-02	4.59E-02	7.49E-01	2.09E-09	1.07E-09	8.18E-09
75	2.05E-09	2.77E-09	7.68E-09	6.77E+01	2.09E+00	3.38E-02	4.39E-02	7.49E-01	2.95E-09	2.06E-09	7.94E-09
76	1.40E-09	2.04E-09	8.34E-09	6.67E+01	2.10E+00	3.30E-02	4.32E-02	7.49E-01	1.51E-09	1.72E-09	8.52E-09
77	8.10E-10	1.75E-09	7.94E-09	6.67E+01	2.09E+00	3.32E-02	4.33E-02	7.49E-01	2.42E-09	1.25E-09	8.58E-09
78	2.23E-09	2.59E-09	7.66E-09	6.75E+01	2.09E+00	3.39E-02	4.38E-02	7.49E-01	3.00E-09	2.14E-09	7.50E-09
79	1.50E-09	1.78E-09	7.82E-09	6.71E+01	2.08E+00	3.37E-02	4.36E-02	7.49E-01	2.65E-09	1.47E-09	8.36E-09
80	2.03E-09	2.66E-09	7.56E-09	6.70E+01	2.08E+00	3.34E-02	4.33E-02	7.48E-01	1.93E-09	1.59E-09	7.81E-09

<b>Median</b>	<b>1.54E-09</b>	<b>2.05E-09</b>	<b>7.66E-09</b>	<b>6.71E+01</b>	<b>2.08E+00</b>	<b>3.33E-02</b>	<b>4.32E-02</b>	<b>7.49E-01</b>	<b>2.29E-09</b>	<b>1.70E-09</b>	<b>7.94E-09</b>
<b>Min</b>	<b>8.10E-10</b>	<b>1.34E-09</b>	<b>5.97E-09</b>	<b>6.66E+01</b>	<b>2.02E+00</b>	<b>3.26E-02</b>	<b>4.25E-02</b>	<b>7.48E-01</b>	<b>1.51E-09</b>	<b>1.07E-09</b>	<b>6.22E-09</b>
<b>Max</b>	<b>2.36E-09</b>	<b>3.05E-09</b>	<b>2.44E-08</b>	<b>7.07E+01</b>	<b>2.13E+00</b>	<b>3.61E-02</b>	<b>4.62E-02</b>	<b>7.50E-01</b>	<b>3.64E-09</b>	<b>2.71E-09</b>	<b>1.38E-08</b>
<b>Std Dev</b>	<b>4.50E-10</b>	<b>4.58E-10</b>	<b>2.03E-09</b>	<b>1.12E+00</b>	<b>2.73E-02</b>	<b>8.50E-04</b>	<b>7.30E-04</b>	<b>6.32E-04</b>	<b>4.84E-10</b>	<b>4.26E-10</b>	<b>9.70E-10</b>

## N-channel

Item Name	IGSS	IGSS	IDSS	BVDSS	VGSTH	RDSON	RDSON	VFSDS	IGSS	IGSS	IDSS
Serial#											
1	2.16E-09	2.19E-09	1.05E-09	7.09E+01	2.18E+00	1.98E-02	2.28E-02	7.31E-01	1.86E-09	6.46E-10	2.15E-09
2	2.03E-09	2.35E-09	1.13E-09	7.03E+01	2.23E+00	1.98E-02	2.29E-02	7.33E-01	1.28E-09	7.93E-09	1.25E-09
3	1.50E-09	1.95E-09	1.46E-09	7.04E+01	2.23E+00	1.98E-02	2.29E-02	7.33E-01	2.83E-09	2.06E-09	8.53E-10
4	4.80E-11	1.30E-09	2.19E-09	7.05E+01	2.23E+00	1.97E-02	2.28E-02	7.33E-01	2.84E-09	1.90E-09	2.17E-09
5	1.86E-09	2.55E-09	1.17E-09	7.06E+01	2.22E+00	1.98E-02	2.29E-02	7.32E-01	1.74E-09	9.18E-10	1.24E-09
6	1.07E-09	1.25E-09	2.11E-09	7.07E+01	2.22E+00	1.96E-02	2.26E-02	7.32E-01	3.07E-09	2.27E-09	1.11E-09
7	1.98E-09	2.17E-09	1.43E-09	7.16E+01	2.17E+00	2.02E-02	2.33E-02	7.32E-01	2.28E-09	1.55E-09	1.27E-09
8	2.20E-09	2.43E-09	1.22E-09	7.11E+01	2.18E+00	1.98E-02	2.28E-02	7.31E-01	1.92E-09	1.28E-09	1.64E-09
9	1.17E-09	1.36E-09	1.81E-09	7.06E+01	2.19E+00	1.98E-02	2.28E-02	7.31E-01	2.18E-09	1.08E-09	2.08E-09
10	1.01E-09	1.57E-09	8.90E-10	7.04E+01	2.22E+00	2.00E-02	2.30E-02	7.32E-01	1.96E-09	9.22E-10	1.86E-09
11	1.34E-09	1.89E-09	1.33E-09	7.05E+01	2.19E+00	1.98E-02	2.28E-02	7.31E-01	1.84E-09	8.38E-10	1.50E-09
12	1.84E-09	2.50E-09	1.13E-09	7.04E+01	2.21E+00	2.00E-02	2.30E-02	7.32E-01	1.71E-09	8.01E-10	2.11E-09
13	1.16E-09	1.50E-09	1.74E-09	7.08E+01	2.22E+00	1.99E-02	2.29E-02	7.33E-01	2.27E-09	1.15E-09	1.88E-09
14	2.11E-09	2.55E-09	2.05E-09	7.15E+01	2.23E+00	2.01E-02	2.32E-02	7.33E-01	3.06E-09	2.16E-09	1.09E-09
15	1.29E-09	1.48E-09	2.08E-09	7.04E+01	2.21E+00	1.99E-02	2.30E-02	7.32E-01	2.93E-09	2.25E-09	1.13E-09
16	2.03E-09	2.52E-09	1.14E-09	7.04E+01	2.20E+00	2.02E-02	2.32E-02	7.32E-01	1.84E-09	1.04E-09	1.89E-09
17	1.07E-09	1.52E-09	2.21E-09	7.04E+01	2.20E+00	2.02E-02	2.32E-02	7.32E-01	3.15E-09	2.30E-09	1.28E-09
18	7.83E-10	1.30E-09	2.18E-09	7.03E+01	2.21E+00	2.01E-02	2.31E-02	7.32E-01	2.82E-09	2.08E-09	1.60E-09
19	1.70E-09	2.62E-09	1.66E-09	7.03E+01	2.21E+00	2.02E-02	2.32E-02	7.32E-01	2.61E-09	1.83E-09	1.42E-09
20	1.55E-09	2.53E-09	1.43E-09	7.05E+01	2.22E+00	2.01E-02	2.31E-02	7.32E-01	2.46E-09	1.69E-09	1.32E-09
21	1.98E-09	2.67E-09	2.00E-09	7.04E+01	2.22E+00	2.02E-02	2.32E-02	7.32E-01	3.21E-09	2.16E-09	9.76E-10
22	1.93E-09	2.61E-09	1.32E-09	7.06E+01	2.23E+00	1.99E-02	2.30E-02	7.32E-01	1.80E-09	9.25E-10	2.20E-09
23	1.61E-09	2.53E-09	1.26E-09	7.06E+01	2.23E+00	1.99E-02	2.29E-02	7.32E-01	1.86E-09	8.15E-10	1.39E-09
24	1.91E-09	2.60E-09	1.39E-09	7.09E+01	2.22E+00	1.99E-02	2.29E-02	7.32E-01	2.17E-09	1.61E-09	1.59E-09
25	1.98E-09	2.42E-09	1.33E-09	7.15E+01	2.23E+00	2.01E-02	2.32E-02	7.32E-01	2.15E-09	1.52E-09	1.56E-09
26	1.58E-09	1.85E-09	1.97E-09	7.03E+01	2.20E+00	2.00E-02	2.30E-02	7.32E-01	2.79E-09	2.22E-09	1.10E-09
27	1.16E-09	1.71E-09	1.28E-09	7.05E+01	2.19E+00	1.98E-02	2.29E-02	7.31E-01	2.09E-09	1.13E-09	1.82E-09
28	9.62E-10	1.16E-09	1.92E-09	7.16E+01	2.17E+00	2.01E-02	2.32E-02	7.31E-01	2.63E-09	1.36E-09	1.82E-09
29	1.95E-09	2.51E-09	2.21E-09	7.14E+01	2.22E+00	2.02E-02	2.33E-02	7.32E-01	3.30E-09	2.08E-09	1.22E-09
30	1.04E-09	1.31E-09	1.06E-09	7.15E+01	2.19E+00	2.00E-02	2.31E-02	7.32E-01	1.99E-09	8.19E-10	1.14E-09
31	1.33E-09	1.80E-09	1.40E-09	6.99E+01	2.14E+00	2.01E-02	2.35E-02	7.33E-01	2.17E-09	1.06E-09	1.79E-09
32	1.55E-09	1.90E-09	1.31E-09	7.07E+01	2.15E+00	2.02E-02	2.37E-02	7.33E-01	1.83E-09	7.33E-10	2.30E-09
33	1.04E-09	1.45E-09	1.79E-09	7.13E+01	2.20E+00	2.00E-02	2.32E-02	7.32E-01	2.37E-09	1.09E-09	1.90E-09
34	1.98E-09	2.70E-09	1.79E-09	7.14E+01	2.24E+00	2.00E-02	2.31E-02	7.32E-01	2.98E-09	1.96E-09	1.08E-09
35	2.28E-09	2.50E-09	1.04E-09	7.14E+01	2.23E+00	2.00E-02	2.30E-02	7.32E-01	1.90E-09	1.15E-09	1.72E-09
36	1.32E-09	1.92E-09	1.58E-09	7.11E+01	2.23E+00	1.99E-02	2.30E-02	7.32E-01	2.23E-09	1.09E-09	2.22E-09
37	1.98E-09	2.66E-09	1.14E-09	7.13E+01	2.24E+00	1.99E-02	2.30E-02	7.32E-01	1.79E-09	9.60E-10	1.93E-09
38	1.65E-09	1.84E-09	2.45E-09	6.98E+01	2.20E+00	1.99E-02	2.31E-02	7.33E-01	2.80E-09	1.92E-09	1.79E-09
39	1.91E-09	2.60E-09	1.06E-09	7.15E+01	2.19E+00	2.00E-02	2.32E-02	7.32E-01	1.97E-09	1.17E-09	1.75E-09
40	1.85E-09	2.35E-09	2.12E-09	7.10E+01	2.16E+00	2.03E-02	2.36E-02	7.32E-01	3.30E-09	1.90E-09	2.12E-09
41	1.73E-09	2.74E-09	1.37E-09	6.94E+01	2.13E+00	2.00E-02	2.35E-02	7.32E-01	1.92E-09	1.02E-09	2.23E-09
42	1.43E-09	1.85E-09	1.99E-09	7.15E+01	2.20E+00	2.01E-02	2.34E-02	7.32E-01	2.95E-09	1.71E-09	1.61E-09
43	7.02E-10	1.35E-09	2.08E-09	7.15E+01	2.20E+00	2.01E-02	2.33E-02	7.32E-01	3.22E-09	2.11E-09	1.13E-09
44	1.44E-09	2.30E-09	1.10E-09	7.07E+01	2.20E+00	2.00E-02	2.31E-02	7.32E-01	1.90E-09	5.61E-10	2.06E-09
45	8.16E-10	1.23E-09	1.95E-09	7.09E+01	2.21E+00	1.99E-02	2.30E-02	7.32E-01	3.03E-09	1.84E-09	1.42E-09
46	1.81E-09	2.25E-09	2.09E-09	7.07E+01	2.21E+00	1.98E-02	2.29E-02	7.32E-01	3.20E-09	1.74E-09	1.34E-09
47	1.86E-09	2.29E-09	1.47E-09	7.08E+01	2.21E+00	1.97E-02	2.28E-02	7.32E-01	2.43E-09	1.67E-09	1.28E-09

48	1.64E-09	2.77E-09	8.41E-10	7.08E+01	2.22E+00	1.99E-02	2.30E-02	7.32E-01	2.04E-09	6.54E-10	1.48E-09
49	1.75E-09	2.28E-09	1.57E-09	7.07E+01	2.22E+00	1.99E-02	2.30E-02	7.32E-01	2.14E-09	7.88E-10	1.44E-09
50	1.08E-09	1.77E-09	2.14E-09	7.15E+01	2.23E+00	2.01E-02	2.32E-02	7.32E-01	3.17E-09	2.19E-09	1.10E-09
51	1.17E-09	1.93E-09	1.48E-09	7.11E+01	2.24E+00	1.99E-02	2.29E-02	7.32E-01	2.14E-09	9.45E-10	2.17E-09
52	1.11E-09	1.93E-09	1.14E-09	7.08E+01	2.21E+00	2.02E-02	2.34E-02	7.33E-01	2.24E-09	1.20E-09	1.64E-09
53	1.76E-09	2.68E-09	2.22E-09	6.99E+01	2.20E+00	2.01E-02	2.34E-02	7.33E-01	3.31E-09	2.02E-09	1.10E-09
54	7.67E-10	1.31E-09	2.22E-09	7.11E+01	2.23E+00	2.00E-02	2.30E-02	7.31E-01	3.15E-09	1.99E-09	1.42E-09
55	1.08E-09	2.08E-09	1.36E-09	7.15E+01	2.23E+00	2.02E-02	2.34E-02	7.32E-01	2.13E-09	8.24E-10	2.09E-09
56	1.50E-09	2.37E-09	1.51E-09	7.13E+01	2.22E+00	2.02E-02	2.33E-02	7.32E-01	2.58E-09	1.75E-09	1.19E-09
57	1.66E-09	2.51E-09	1.24E-09	7.04E+01	2.23E+00	2.00E-02	2.31E-02	7.32E-01	1.75E-09	8.05E-10	2.17E-09
58	1.03E-09	2.04E-09	1.41E-09	7.04E+01	2.21E+00	2.01E-02	2.31E-02	7.31E-01	2.18E-09	9.78E-10	2.08E-09
59	1.82E-09	2.88E-09	1.03E-09	7.05E+01	2.21E+00	2.01E-02	2.31E-02	7.31E-01	1.99E-09	1.01E-09	1.00E-09
60	1.17E-09	1.91E-09	3.21E-09	6.74E+01	2.18E+00	1.95E-02	2.28E-02	7.32E-01	1.99E-09	9.12E-10	3.35E-09
61	6.61E-10	1.16E-09	2.29E-09	7.17E+01	2.23E+00	2.00E-02	2.31E-02	7.32E-01	3.01E-09	1.96E-09	1.31E-09
62	1.36E-09	1.86E-09	2.04E-09	7.04E+01	2.20E+00	2.00E-02	2.31E-02	7.31E-01	2.93E-09	2.21E-09	1.15E-09
63	6.32E-10	1.37E-09	2.24E-09	7.03E+01	2.19E+00	1.99E-02	2.29E-02	7.30E-01	3.02E-09	2.06E-09	1.41E-09
64	1.42E-09	2.35E-09	1.30E-09	7.11E+01	2.23E+00	1.97E-02	2.27E-02	7.30E-01	1.92E-09	7.52E-10	2.27E-09
65	7.79E-10	1.60E-09	1.96E-09	7.08E+01	2.23E+00	1.98E-02	2.29E-02	7.31E-01	2.50E-09	1.43E-09	2.04E-09
66	7.95E-10	1.30E-09	1.92E-09	7.08E+01	2.23E+00	1.99E-02	2.29E-02	7.31E-01	2.77E-09	1.68E-09	2.17E-09
67	1.66E-09	2.51E-09	2.07E-09	7.05E+01	2.22E+00	2.00E-02	2.30E-02	7.31E-01	3.35E-09	1.96E-09	1.05E-09
68	3.93E-10	8.17E-10	6.37E-10	7.06E+01	2.21E+00	1.99E-02	2.29E-02	7.31E-01	2.75E-09	1.18E-09	5.26E-10
69	6.77E-10	1.32E-09	2.19E-09	7.04E+01	2.22E+00	1.99E-02	2.30E-02	7.31E-01	3.08E-09	2.14E-09	1.30E-09
70	1.67E-09	2.28E-09	1.59E-09	7.04E+01	2.22E+00	2.00E-02	2.31E-02	7.31E-01	2.48E-09	1.84E-09	1.34E-09
71	7.55E-10	1.02E-09	2.07E-09	7.08E+01	2.18E+00	1.99E-02	2.29E-02	7.29E-01	2.88E-09	1.88E-09	2.21E-09
72	1.81E-09	2.41E-09	9.54E-10	7.08E+01	2.18E+00	1.97E-02	2.28E-02	7.29E-01	1.77E-09	6.80E-10	1.17E-09
73	5.89E-10	1.27E-09	2.19E-09	7.11E+01	2.17E+00	2.01E-02	2.32E-02	7.29E-01	2.89E-09	1.73E-09	2.23E-09
74	8.78E-10	9.88E-10	1.98E-09	7.17E+01	2.17E+00	2.02E-02	2.33E-02	7.30E-01	2.95E-09	1.83E-09	1.41E-09
75	1.06E-09	1.74E-09	2.15E-09	6.70E+01	2.08E+00	1.96E-02	2.29E-02	7.30E-01	2.90E-09	1.41E-09	1.92E-09
76	1.86E-09	2.62E-09	2.18E-09	7.04E+01	2.22E+00	2.00E-02	2.31E-02	7.31E-01	3.38E-09	2.10E-09	1.18E-09
77	9.91E-10	2.06E-09	1.35E-09	7.04E+01	2.22E+00	2.00E-02	2.30E-02	7.31E-01	1.97E-09	8.59E-10	1.66E-09
78	1.85E-09	2.49E-09	1.55E-09	6.56E+01	2.08E+00	1.94E-02	2.28E-02	7.31E-01	1.89E-09	1.09E-09	1.97E-09
79	8.36E-10	1.47E-09	1.83E-09	7.16E+01	2.18E+00	2.01E-02	2.33E-02	7.30E-01	2.36E-09	1.22E-09	1.92E-09
80	1.83E-09	2.55E-09	1.29E-09	7.15E+01	2.18E+00	2.02E-02	2.33E-02	7.30E-01	1.97E-09	1.20E-09	1.71E-09

---

<b>Median</b>	<b>1.47E-09</b>	<b>2.05E-09</b>	<b>1.58E-09</b>	<b>7.07E+01</b>	<b>2.21E+00</b>	<b>2.00E-02</b>	<b>2.30E-02</b>	<b>7.32E-01</b>	<b>2.37E-09</b>	<b>1.42E-09</b>	<b>1.60E-09</b>
<b>Min</b>	<b>4.80E-11</b>	<b>8.17E-10</b>	<b>6.37E-10</b>	<b>6.56E+01</b>	<b>2.08E+00</b>	<b>1.94E-02</b>	<b>2.26E-02</b>	<b>7.29E-01</b>	<b>1.28E-09</b>	<b>5.61E-10</b>	<b>5.26E-10</b>
<b>Max</b>	<b>2.28E-09</b>	<b>2.88E-09</b>	<b>3.21E-09</b>	<b>7.17E+01</b>	<b>2.24E+00</b>	<b>2.03E-02</b>	<b>2.37E-02</b>	<b>7.33E-01</b>	<b>3.38E-09</b>	<b>7.93E-09</b>	<b>3.35E-09</b>
<b>Std Dev</b>	<b>4.94E-10</b>	<b>5.40E-10</b>	<b>4.77E-10</b>	<b>9.48E-01</b>	<b>3.09E-02</b>	<b>1.74E-04</b>	<b>2.09E-04</b>	<b>8.94E-04</b>	<b>5.34E-10</b>	<b>8.93E-10</b>	<b>4.66E-10</b>