

**Cardinal Components Inc.**

**Internal Report**

**“Private & Confidential”**

# Product Reliability Testing Report

Report NO:CQ-2013022

Product type: CPP 7 Series

Product Frequency/Voltage:3.57MHZ/3.3V

Report date:11/10/2013

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Created By: **Lee L** Reviewed By: **Paul S** Approved By: **Keith R**

## Product Reliability Testing Report

### Testing Items and Results

NO	Item	Industry Standard	Test condition	Criterion	Result
1	Aging	MIL-STD-202 Method 108	85°C for 1000 hrs, Unpowered Measurement at 24±2 hours after test conclusion	ΔFL=±10ppm MAX	PASS
2	Moisture Resistance	MIL-STD-202 Method 106	10/cycle, 24 hours, with each cycle, 2 sub-cycles each cycle, Heating and a total of 10 hours of high-temperature preservation process. Cooling and Cryogenic insulation process Total 2 hours, Constant humidity of 90%. Pretreatment: 120 degree drying 24 hours, 8 hours for testing, not live Measurement at 24±2 hours after test conclusion	ΔFL=±10ppm MAX	PASS
3	Biased Humidity	MIL-STD-202 Method 103	85°C with relative humidity of 85% for 1000 hrs Measurement at 24±2 hours after test conclusion	ΔFL=±10ppm MAX	PASS
4	Operational Life	MIL-STD-202 Method 108	85°C for 1000 hrs with rated VDD Measurement at 24±2 hours after test conclusion	ΔFL=±10ppm MAX	PASS
5	Low Temperature Storage	MIL-STD-883E	-40°C for 1000 hrs, Unpowered Measurement at 24±2 hours after test conclusion	ΔFL=±10ppm MAX	PASS
6	Thermal Shock	MIL-STD-202 Method 107	-55 °C / +125 °C . Note: Number of Cycles: 1000; Max.transfer time: 5 minuter; Dwell time: 5 minuter. Air-Air	ΔFL=±10ppm MAX	PASS
7	Drop	IEC-68-2-32	3 Times Free Fall from the height 100cm onto 3cm thickniss hard wood board.	ΔFL=±5ppm MAX	PASS
8	Mechanical Shock	MIL-STD-202 Method 213	In three mutual axial (total 6 directions) every direction three pulse (Total 18 pulse) after Electric Properties Testing. (Peak: 100g / s, the waveform: half sine, the rate of change: 12.3 ft / sec)	ΔFL=±5ppm MAX	PASS
9	Vibration	MIL-STD-202 Method 204	5g's for 20 minutes 12 cycles each of 3 orientations. Note: Use 8"X5" PCB, 0.31" thick with 7 secure points on one 8" side and 2 secure points on corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10-2000Hz.	ΔFL=±5ppm MAX	PASS
10	Reflow	J-STD-020C	Keep the devices in 150°C±5°C for 120s, then rise to 260 °C ±5 °C, lasting for 10s, the time of rising and lasting procedure should be less than 200s.	ΔFL=±5ppm MAX Visual good, No rusty	PASS
11	Solderability	J-STD-002	lead-based products and for products, does not require electrical performance testing. Microscopy 50 X; Conditions : Lead products: A: 235 °C, steam aging 8H	More than 95% coverage	PASS
12	Terminal Strength (lead)	JISC60068-2-21	1.8kg, respectively, as required to provide the tangential thrust (60 seconds) and 1.8kg of the vertical tension (60 seconds)	electrode no rupture	PASS

Internal Standard

3,570,000.00 [Vdut 3.30] [Ven 3.00] [Vld 3.00]

试验前

Serial Number	Dev(ppm)	IS1(mA)	Tr(nS)	Tf(nS)	DC(%)	Vh(V)	VI(V)
DUT0001	-3.2	1.2	2.6	2.7	48.9	3.22	-0.07
DUT0002	-5.2	1.3	2.4	2.3	48.8	3.19	-0.07
DUT0003	-4.1	1.3	2.3	2.3	48.8	3.19	-0.08
DUT0004	-3.2	1.3	2.6	2.2	48.8	3.20	-0.06
DUT0005	-8.2	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0006	-2.2	1.3	2.6	2.3	48.8	3.20	-0.06
DUT0007	-9.1	1.3	2.3	2.3	48.8	3.21	-0.08
DUT0008	-11.7	1.3	2.6	2.3	48.8	3.23	-0.07
DUT0009	-4.1	1.4	2.7	2.6	48.8	3.22	-0.08
DUT0010	-2.2	1.3	2.6	2.3	48.8	3.20	-0.06
DUT0011	-1.2	1.3	2.6	2.5	48.8	3.22	-0.06
DUT0012	0.8	1.1	2.2	2.5	48.8	3.22	-0.08
DUT0013	-4.1	1.3	2.3	2.3	48.8	3.20	-0.08
DUT0014	-6.1	1.2	2.6	2.4	48.8	3.21	-0.08
DUT0015	-10.6	1.2	2.3	2.3	48.8	3.20	-0.08
DUT0016	-9.1	1.3	2.7	2.6	48.8	3.21	-0.08
DUT0017	-3.2	1.3	2.5	2.3	48.8	3.20	-0.08
DUT0018	-3.1	1.4	2.3	2.6	48.9	3.20	-0.08
DUT0019	-1.2	1.3	2.4	2.3	48.8	3.23	-0.08
DUT0020	-0.2	1.3	2.7	2.6	48.8	3.20	-0.08
DUT0021	-7.1	1.3	2.7	2.6	48.8	3.23	-0.06
DUT0022	-4.1	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0023	-5.2	1.3	2.7	1.9	48.6	3.19	-0.08
DUT0024	-6.2	1.3	2.2	2.6	48.8	3.20	-0.07
DUT0025	-6.1	1.3	2.7	2.3	48.8	3.19	-0.06
DUT0026	-2.1	1.3	2.3	2.0	48.8	3.22	-0.08
DUT0027	-7.6	1.3	2.7	2.6	48.8	3.22	-0.08
DUT0028	1.1	1.2	2.2	2.3	48.8	3.20	-0.08
DUT0029	-7.1	1.3	2.6	2.3	48.8	3.22	-0.09
DUT0030	-5.2	1.3	2.7	2.0	48.8	3.22	-0.08
DUT0031	-4.1	1.2	2.6	2.5	48.8	3.21	-0.07
DUT0032	-10.1	1.4	2.7	2.3	48.8	3.21	-0.07
DUT0033	-9.1	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0034	-4.1	1.3	2.6	2.2	48.8	3.20	-0.08
DUT0035	-4.1	1.3	2.6	2.3	48.8	3.22	-0.08
DUT0036	1.8	1.3	2.4	2.6	48.8	3.20	-0.08
DUT0037	-2.2	1.3	2.7	2.3	48.9	3.21	-0.07
DUT0038	-4.1	1.3	2.7	2.0	48.8	3.20	-0.07
DUT0039	-2.1	1.3	2.3	1.9	48.8	3.19	-0.08
DUT0040	-3.2	1.2	2.6	2.3	48.8	3.23	-0.07
DUT0041	-4.1	1.2	2.6	2.3	48.8	3.20	-0.08
DUT0042	-4.1	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0043	-6.2	1.3	2.6	2.3	48.8	3.19	-0.06
DUT0044	-6.2	1.4	2.7	2.4	48.8	3.20	-0.08
DUT0045	-8.2	1.3	2.7	2.7	48.8	3.22	-0.08
DUT0046	-5.2	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0047	0.8	1.4	2.6	2.3	48.8	3.21	-0.07
DUT0048	-2.1	1.3	2.6	2.3	48.8	3.20	-0.06

DUT0049	-0.2	1.2	2.6	2.6	48.8	3.20	-0.08
DUT0050	-6.2	1.3	2.3	2.7	48.8	3.20	-0.08
DUT0051	15.6	1.5	2.6	2.4	48.8	3.19	-0.09
DUT0052	-5.2	1.3	2.7	2.3	48.8	3.18	-0.07
DUT0053	2.7	1.3	2.7	2.5	48.8	3.20	-0.08
DUT0054	-1.2	1.2	2.4	2.6	48.8	3.20	-0.08
DUT0055	-5.2	1.3	3.2	2.7	48.8	3.19	-0.09
DUT0056	-1.8	1.3	2.6	2.3	48.8	3.23	-0.07
DUT0057	-6.1	1.3	2.6	2.3	48.8	3.20	-0.09
DUT0058	-4.1	1.3	2.6	1.9	48.9	3.20	-0.08
DUT0059	-0.2	1.3	2.7	2.3	48.8	3.20	-0.08
DUT0060	-9.1	1.2	2.7	2.5	48.8	3.22	-0.08
DUT0061	-0.2	1.2	2.3	2.7	48.8	3.19	-0.07
DUT0062	-6.1	1.4	2.3	2.2	48.8	3.20	-0.08
DUT0063	-4.1	1.3	2.7	2.6	48.8	3.20	-0.08
DUT0064	-1.2	1.2	2.6	2.3	48.8	3.19	-0.07
DUT0065	-1.2	1.4	2.6	2.3	48.8	3.19	-0.07
DUT0066	-2.2	1.3	2.6	2.3	48.8	3.23	-0.07
DUT0067	-6.1	1.3	2.6	2.3	48.8	3.21	-0.09
DUT0068	-5.2	1.4	2.6	2.4	48.8	3.19	-0.09
DUT0069	-1.2	1.3	2.6	2.3	48.8	3.21	-0.07
DUT0070	-8.2	1.3	2.6	2.6	48.8	3.19	-0.06
DUT0071	-4.1	1.3	2.6	2.6	48.8	3.21	-0.07
DUT0072	-3.1	1.3	2.4	2.3	48.8	3.21	-0.08
DUT0073	-5.2	1.3	2.7	2.6	48.9	3.19	-0.09
DUT0074	-3.1	1.2	2.7	2.4	48.8	3.20	-0.08
DUT0075	-8.1	1.3	2.5	2.3	48.8	3.20	-0.09
DUT0076	0.8	1.3	2.4	2.0	48.8	3.18	-0.08
DUT0077	-1.2	1.2	2.7	2.3	48.8	3.21	-0.07
DUT0078	-3.2	1.2	2.6	2.3	48.8	3.22	-0.08
DUT0079	-0.2	1.3	2.4	2.3	48.8	3.20	-0.08
DUT0080	-6.6	1.2	2.7	2.3	48.8	3.19	-0.09
DUT0081	-4.1	1.4	2.3	2.6	48.8	3.20	-0.08
DUT0082	-4.1	1.3	2.6	2.3	48.8	3.21	-0.07
DUT0083	-5.2	1.2	2.3	2.3	48.8	3.21	-0.11
DUT0084	2.7	1.3	2.7	2.4	48.6	3.20	-0.08
DUT0085	-8.2	1.3	2.6	2.4	48.8	3.19	-0.08
DUT0086	-6.1	1.4	2.7	2.2	48.9	3.20	-0.08
DUT0087	-3.1	1.3	2.3	2.3	48.8	3.20	-0.08
DUT0088	-4.1	1.4	2.7	1.9	48.9	3.20	-0.08
DUT0089	-8.2	1.2	2.7	2.6	48.8	3.20	-0.08
DUT0090	-1.2	1.2	2.6	2.5	48.8	3.20	-0.08
DUT0091	-4.1	1.3	2.6	2.2	48.8	3.20	-0.08
DUT0092	-10.1	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0093	-10.1	1.3	2.3	2.4	48.8	3.22	-0.08
DUT0094	-0.2	1.4	2.8	2.4	48.8	3.20	-0.08
DUT0095	-6.1	1.2	2.3	2.3	48.8	3.22	-0.08
DUT0096	-2.2	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0097	-1.2	1.3	2.6	2.2	48.8	3.20	-0.08
DUT0098	-11.1	1.4	2.6	2.3	48.9	3.20	-0.08
DUT0099	-12.0	1.2	2.3	2.3	48.8	3.22	-0.08

DUT0100	0.8	1.3	2.6	2.2	48.8	3.20	-0.08
DUT0101	-1.8	1.3	2.8	2.3	48.8	3.20	-0.08
DUT0102	-4.1	1.3	2.6	2.3	48.8	3.18	-0.08
DUT0103	-6.2	1.3	2.4	1.9	48.8	3.21	-0.08
DUT0104	-2.1	1.4	2.6	2.6	48.9	3.20	-0.09
DUT0105	14.9	1.3	2.6	1.9	48.8	3.21	-0.08
DUT0106	0.1	1.3	2.6	2.3	48.8	3.19	-0.09
DUT0107	-9.1	1.2	2.3	2.3	48.8	3.20	-0.09
DUT0108	-0.2	1.3	2.7	2.6	48.8	3.19	-0.06
DUT0109	-2.1	1.3	2.6	2.6	48.8	3.21	-0.07
DUT0110	-7.2	1.3	2.3	2.6	48.8	3.19	-0.07
DUT0111	-7.2	1.4	2.6	2.5	48.8	3.20	-0.08
DUT0112	-3.7	1.3	2.7	2.3	48.8	3.19	-0.09
DUT0113	-3.1	1.2	2.3	2.3	48.8	3.19	-0.08
DUT0114	-3.2	1.3	2.6	2.3	48.8	3.20	-0.09
DUT0115	1.8	1.3	2.7	2.6	48.8	3.22	-0.09
DUT0116	-5.2	1.3	2.7	2.7	48.8	3.19	-0.09
DUT0117	-7.1	1.3	2.6	2.4	48.6	3.21	-0.08
DUT0118	-1.2	1.3	2.5	2.3	48.8	3.19	-0.09
DUT0119	-2.7	1.3	2.7	2.0	48.8	3.21	-0.07
DUT0120	-5.2	1.4	2.7	2.3	48.8	3.22	-0.09
DUT0121	-5.2	1.3	1.9	2.6	48.8	3.20	-0.09
DUT0122	8.6	1.3	2.6	2.3	48.8	3.22	-0.08
DUT0123	-5.7	1.3	2.7	2.5	48.8	3.19	-0.08
DUT0124	-3.7	1.4	2.3	2.7	48.8	3.21	-0.09
DUT0125	-9.1	1.3	2.3	2.3	48.8	3.20	-0.08
DUT0126	-2.1	1.3	2.4	2.7	48.9	3.20	-0.08
DUT0127	-6.6	1.3	2.4	2.3	48.8	3.21	-0.07
DUT0128	-2.2	1.3	2.6	2.3	48.8	3.22	-0.08
DUT0129	-8.2	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0130	-1.2	1.2	2.7	2.9	48.8	3.19	-0.09
DUT0131	-7.6	1.3	2.6	2.6	48.8	3.21	-0.08
DUT0132	-1.8	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0133	-2.2	1.3	2.6	2.3	48.8	3.21	-0.07
DUT0134	-2.1	1.2	2.3	2.6	48.8	3.20	-0.08
DUT0135	-7.2	1.3	2.6	2.7	48.8	3.21	-0.07
DUT0136	-6.1	1.4	2.6	2.2	48.8	3.20	-0.09
DUT0137	-1.8	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0138	-7.6	1.2	2.6	2.6	48.8	3.21	-0.07
DUT0139	-7.2	1.3	2.8	1.9	48.8	3.20	-0.08
DUT0140	-11.1	1.3	2.7	2.3	48.8	3.19	-0.07
DUT0141	-7.2	1.3	2.6	2.2	48.8	3.22	-0.09
DUT0142	-10.5	1.4	2.4	2.3	48.8	3.20	-0.08
DUT0143	-11.1	1.3	2.3	2.4	48.8	3.20	-0.08
DUT0144	-6.1	1.2	2.7	2.3	48.8	3.19	-0.09
DUT0145	-7.2	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0146	-7.2	1.3	2.6	1.9	48.8	3.20	-0.08
DUT0147	-8.1	1.4	2.7	2.4	48.8	3.21	-0.07
DUT0148	4.7	1.3	2.7	2.4	48.8	3.20	-0.08
DUT0149	-1.2	1.2	2.4	2.6	48.8	3.22	-0.08
DUT0150	-7.2	1.3	2.3	2.3	48.8	3.20	-0.08

DUT0151	-3.2	1.3	2.7	2.6	48.8	3.22	-0.08
DUT0152	-2.2	1.3	2.6	2.5	48.8	3.20	-0.08
DUT0153	-6.1	1.3	2.6	2.3	48.8	3.23	-0.08
DUT0154	-4.1	1.4	2.6	2.3	48.8	3.20	-0.08
DUT0155	-4.1	1.3	2.7	2.3	48.8	3.21	-0.09
DUT0156	-7.2	1.3	2.6	2.6	48.8	3.20	-0.08
DUT0157	-5.2	1.3	2.4	2.3	48.8	3.20	-0.08
DUT0158	-5.7	1.3	2.2	2.3	48.9	3.22	-0.08
DUT0159	-5.2	1.3	2.3	2.2	48.9	3.20	-0.08
DUT0160	-0.2	1.3	2.6	2.6	48.8	3.20	-0.08
DUT0161	-5.2	1.3	2.6	2.2	48.8	3.21	-0.07
DUT0162	-5.2	1.3	2.3	2.3	48.8	3.21	-0.07
DUT0163	-0.2	1.3	2.6	2.6	48.8	3.22	-0.08
DUT0164	-8.2	1.3	2.5	2.3	48.8	3.20	-0.08
DUT0165	-1.2	1.4	2.6	2.3	48.8	3.21	-0.08
DUT0166	-5.7	1.4	2.3	2.6	48.8	3.20	-0.08
DUT0167	-0.2	1.3	2.5	2.6	48.8	3.20	-0.08
DUT0168	-7.2	1.3	2.3	2.3	48.8	3.20	-0.08
DUT0169	-3.2	1.3	2.6	2.3	48.8	3.19	-0.07
DUT0170	-6.1	1.3	2.7	2.4	48.8	3.20	-0.08
DUT0171	-2.1	1.3	2.7	2.3	48.8	3.21	-0.07
DUT0172	-0.2	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0173	-3.2	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0174	-7.1	1.2	2.6	2.6	48.8	3.20	-0.08
DUT0175	-3.2	1.3	2.2	2.6	48.8	3.20	-0.08
DUT0176	-4.7	1.4	2.3	2.3	48.8	3.20	-0.08
DUT0177	-9.1	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0178	-8.6	1.2	2.7	2.6	48.8	3.19	-0.09
DUT0179	-3.2	1.3	2.3	2.3	48.8	3.20	-0.08
DUT0180	-6.2	1.3	2.3	2.7	48.8	3.19	-0.06
DUT0181	-7.2	1.2	2.8	2.4	48.8	3.20	-0.09
DUT0182	-7.7	1.4	2.7	2.6	48.8	3.20	-0.08
DUT0183	1.1	1.3	2.7	1.9	48.8	3.22	-0.08
DUT0184	-4.1	1.2	2.6	2.3	48.8	3.20	-0.08
DUT0185	-4.7	1.3	2.7	2.3	48.8	3.20	-0.08
DUT0186	-3.2	1.3	2.7	2.3	48.8	3.21	-0.07
DUT0187	-7.2	1.3	2.6	2.3	48.8	3.19	-0.06
DUT0188	-3.7	1.3	2.3	2.3	48.8	3.21	-0.09
DUT0189	-7.7	1.3	2.6	2.3	48.8	3.21	-0.07
DUT0190	-8.2	1.3	2.3	2.4	48.8	3.20	-0.08
DUT0191	-4.7	1.3	2.6	2.6	48.8	3.21	-0.08
DUT0192	-5.2	1.2	2.3	2.6	48.8	3.19	-0.09
DUT0193	-1.2	1.3	2.7	1.9	48.8	3.21	-0.09
DUT0194	-4.1	1.3	2.6	2.3	48.8	3.20	-0.08
DUT0195	-4.1	1.4	2.6	2.3	48.8	3.20	-0.08
DUT0196	-3.1	1.2	2.7	2.3	48.8	3.22	-0.06
DUT0197	1.8	1.3	2.7	2.3	48.8	3.22	-0.08
DUT0198	-9.1	1.3	2.6	2.4	48.8	3.20	-0.08
DUT0199	-3.2	1.4	2.7	1.9	48.8	3.19	-0.08
DUT0200	-4.1	1.3	2.7	2.3	48.8	3.19	-0.09

Internal Standard

3,570,000.00 [Vdut 3.30] [Ven 3.00] [Vld 3.00]

试验后

Serial Number	Dev(ppm)	IS1(mA)	Tr(nS)	Tf(nS)	DC(%)	Vh(V)	VI(V)
DUT0001	-2.1	1.3	2.2	2.4	48.9	3.20	-0.09
DUT0002	-5.2	1.3	2.4	2.3	48.8	3.19	-0.09
DUT0003	-6.1	1.3	2.6	1.9	48.8	3.19	-0.09
DUT0004	-5.2	1.3	2.8	2.6	48.8	3.22	-0.09
DUT0005	-7.1	1.4	2.6	2.6	48.8	3.19	-0.10
DUT0006	-4.1	1.2	2.3	2.6	48.8	3.20	-0.08
DUT0007	-8.6	1.2	2.6	2.2	48.9	3.20	-0.11
DUT0008	-12.0	1.4	2.6	2.3	48.9	3.21	-0.10
DUT0009	-5.2	1.2	2.3	2.3	48.8	3.21	-0.10
DUT0010	-3.2	1.3	2.8	2.4	48.8	3.19	-0.09
DUT0011	-1.2	1.2	2.4	2.6	48.8	3.20	-0.11
DUT0012	-0.2	1.3	2.6	2.3	48.8	3.20	-0.11
DUT0013	-3.2	1.2	2.2	2.6	48.8	3.20	-0.09
DUT0014	-7.7	1.2	2.6	2.3	48.8	3.19	-0.09
DUT0015	-10.1	1.3	2.6	2.6	48.9	3.23	-0.10
DUT0016	-9.1	1.2	2.3	2.0	48.9	3.20	-0.11
DUT0017	-5.2	1.2	2.7	2.6	48.8	3.23	-0.10
DUT0018	-3.8	1.3	2.6	2.6	48.8	3.21	-0.10
DUT0019	-3.2	1.3	2.7	2.3	48.8	3.19	-0.09
DUT0020	-1.2	1.3	2.8	2.3	48.8	3.19	-0.09
DUT0021	-7.1	1.2	2.6	2.6	49.1	3.21	-0.07
DUT0022	-5.1	1.2	2.6	2.2	48.9	3.20	-0.09
DUT0023	-6.2	1.3	2.0	2.3	48.9	3.23	-0.07
DUT0024	-5.2	1.3	2.6	2.3	48.9	3.23	-0.05
DUT0025	-7.1	1.3	2.2	2.3	48.9	3.20	-0.09
DUT0026	-1.2	1.2	2.3	2.2	48.9	3.23	-0.08
DUT0027	-7.1	1.3	2.6	2.2	49.1	3.22	-0.06
DUT0028	1.2	1.3	2.6	2.1	48.9	3.23	-0.08
DUT0029	-6.2	1.3	2.3	2.6	49.1	3.22	-0.06
DUT0030	-4.2	1.3	2.6	2.3	48.9	3.21	-0.07
DUT0031	-4.2	1.3	2.3	1.9	48.9	3.22	-0.06
DUT0032	-10.0	1.2	2.6	2.6	49.1	3.23	-0.07
DUT0033	-8.1	1.3	2.6	2.3	48.9	3.25	-0.07
DUT0034	-4.1	1.3	2.6	2.3	48.9	3.23	-0.07
DUT0035	-3.2	1.3	2.3	2.6	49.1	3.23	-0.08
DUT0036	2.7	1.3	2.6	2.6	49.1	3.18	-0.10
DUT0037	-1.2	1.2	2.6	2.3	49.1	3.21	-0.07
DUT0038	-5.2	1.1	2.3	2.3	49.1	3.21	-0.07
DUT0039	-1.7	1.2	2.7	2.3	48.9	3.22	-0.06
DUT0040	-2.1	1.3	2.5	2.2	48.9	3.22	-0.07
DUT0041	-3.4	1.3	2.5	2.3	48.6	3.17	-0.11
DUT0042	-2.4	1.4	2.8	2.3	48.6	3.16	-0.12
DUT0043	-5.3	1.3	2.7	2.6	48.4	3.17	-0.11
DUT0044	-5.3	1.3	2.6	2.3	48.6	3.18	-0.11
DUT0045	-6.8	1.4	2.7	2.3	48.6	3.16	-0.10
DUT0046	-5.3	1.2	2.7	2.4	48.6	3.14	-0.11
DUT0047	3.6	1.2	2.7	2.3	48.6	3.18	-0.12
DUT0048	-1.4	1.3	2.9	2.3	48.4	3.17	-0.12

DUT0049	0.6	1.4	2.3	2.4	48.8	3.16	-0.11
DUT0050	-5.3	1.2	2.7	2.3	48.6	3.18	-0.12
DUT0051	15.3	1.3	2.7	2.4	48.4	3.18	-0.11
DUT0052	-5.3	1.3	2.4	2.7	48.6	3.14	-0.11
DUT0053	2.6	1.2	2.8	2.6	48.8	3.17	-0.11
DUT0054	-0.3	1.2	3.0	2.4	48.6	3.14	-0.11
DUT0055	-4.8	1.2	2.8	2.4	48.8	3.15	-0.10
DUT0056	-2.4	1.3	2.7	2.6	48.6	3.16	-0.11
DUT0057	-6.3	1.3	2.2	2.4	48.8	3.18	-0.11
DUT0058	-3.4	1.3	2.3	2.4	48.6	3.15	-0.10
DUT0059	-1.4	1.3	2.7	2.6	48.8	3.17	-0.11
DUT0060	-8.3	1.3	2.8	2.4	48.8	3.16	-0.09
DUT0061	-2.1	1.3	2.7	2.6	49.1	3.21	-0.07
DUT0062	-6.6	1.3	2.3	1.9	48.9	3.22	-0.06
DUT0063	-5.1	1.3	2.2	2.3	49.1	3.21	-0.08
DUT0064	-0.1	1.3	2.3	2.3	48.9	3.24	-0.06
DUT0065	0.6	1.2	2.6	2.6	48.9	3.21	-0.08
DUT0066	-1.2	1.3	2.4	2.3	48.9	3.22	-0.07
DUT0067	-5.2	1.3	2.7	1.9	49.1	3.23	-0.07
DUT0068	-4.6	1.3	2.8	2.5	49.1	3.24	-0.07
DUT0069	-0.8	1.2	2.3	2.0	49.1	3.23	-0.08
DUT0070	-9.0	1.3	2.3	2.3	48.9	3.21	-0.07
DUT0071	-5.2	1.4	2.7	2.6	48.9	3.22	-0.06
DUT0072	-2.7	1.3	2.6	2.2	49.1	3.21	-0.08
DUT0073	-5.1	1.4	2.2	1.9	48.9	3.24	-0.07
DUT0074	-3.2	1.2	2.3	2.6	48.9	3.23	-0.07
DUT0075	-8.0	1.2	2.6	2.3	49.1	3.21	-0.07
DUT0076	-1.2	1.3	2.3	2.3	49.1	3.22	-0.08
DUT0077	-2.1	1.3	2.7	2.6	49.1	3.20	-0.08
DUT0078	-3.2	1.3	2.6	2.3	48.9	3.21	-0.07
DUT0079	0.8	1.3	2.4	2.3	48.9	3.24	-0.06
DUT0080	-6.2	1.2	2.4	2.3	48.9	3.24	-0.07
DUT0081	-4.1	1.3	2.3	2.3	49.1	3.22	-0.08
DUT0082	-4.2	1.3	2.2	2.3	49.1	3.20	-0.08
DUT0083	-4.2	1.2	2.4	2.6	49.1	3.20	-0.08
DUT0084	1.8	1.3	2.3	1.9	49.1	3.21	-0.07
DUT0085	-6.1	1.3	2.4	2.2	49.1	3.20	-0.08
DUT0086	-5.2	1.4	2.4	2.3	49.1	3.21	-0.07
DUT0087	-2.1	1.3	2.4	2.2	48.9	3.22	-0.06
DUT0088	-4.2	1.3	2.3	2.3	48.9	3.20	-0.05
DUT0089	-5.6	1.3	2.4	2.3	49.1	3.23	-0.08
DUT0090	-0.2	1.2	2.6	2.2	48.9	3.21	-0.07
DUT0091	-4.1	1.3	2.4	2.2	49.1	3.21	-0.07
DUT0092	-9.7	1.2	2.3	2.3	49.1	3.23	-0.08
DUT0093	-9.1	1.2	2.3	2.2	48.9	3.21	-0.07
DUT0094	-0.2	1.0	2.4	2.3	49.1	3.21	-0.07
DUT0095	-6.2	1.3	2.3	2.4	49.1	3.22	-0.07
DUT0096	-2.1	1.3	2.3	2.6	48.9	3.23	-0.07
DUT0097	-1.8	1.3	2.3	2.3	49.1	3.23	-0.07
DUT0098	-11.0	1.3	2.3	2.3	48.9	3.21	-0.07
DUT0099	-12.0	1.3	2.3	2.3	49.1	3.20	-0.08

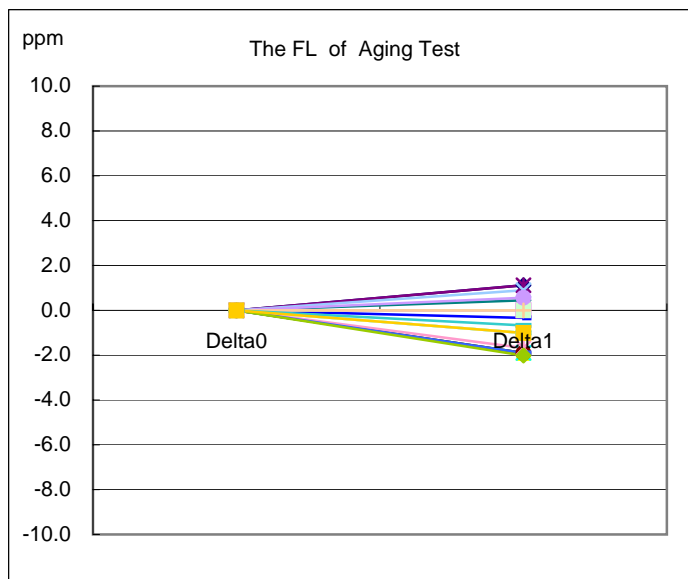


DUT0100	1.8	1.3	2.7	2.3	48.9	3.21	-0.07
DUT0101	2.2	1.2	4.8	3.0	48.8	3.17	-0.11
DUT0102	-1.8	1.3	2.7	2.4	48.8	3.16	-0.12
DUT0103	-4.7	1.2	2.3	2.3	48.8	3.16	-0.12
DUT0104	0.1	1.2	2.3	2.3	48.8	3.16	-0.11
DUT0105	12.0	1.2	2.3	2.4	48.8	3.17	-0.10
DUT0106	-0.5	1.3	2.4	1.8	48.8	3.17	-0.10
DUT0107	-6.4	1.2	3.0	2.3	48.8	3.14	-0.11
DUT0108	0.5	1.3	2.4	2.3	48.8	3.16	-0.11
DUT0109	-2.5	1.2	2.4	2.4	48.8	3.16	-0.11
DUT0110	-4.4	1.2	2.3	1.9	48.8	3.17	-0.10
DUT0111	-5.5	1.3	2.6	2.4	48.8	3.17	-0.10
DUT0112	-3.1	1.3	2.6	2.3	48.8	3.16	-0.11
DUT0113	-2.5	1.3	2.3	1.9	48.8	3.14	-0.11
DUT0114	-1.0	1.2	2.2	2.4	48.8	3.17	-0.12
DUT0115	-0.5	1.3	2.3	2.4	48.8	3.18	-0.12
DUT0116	-4.4	1.3	2.3	2.3	48.8	3.16	-0.12
DUT0117	-6.4	1.3	2.3	2.3	48.8	3.18	-0.12
DUT0118	1.4	1.2	2.7	2.6	48.8	3.17	-0.10
DUT0119	-1.5	1.3	2.4	2.3	48.8	3.14	-0.11
DUT0120	-5.4	1.2	2.6	2.3	48.8	3.17	-0.11
DUT0121	-6.6	1.3	1.9	2.2	48.8	3.19	-0.10
DUT0122	6.1	1.3	2.4	2.6	48.8	3.19	-0.11
DUT0123	-8.2	1.3	2.3	2.2	48.8	3.18	-0.10
DUT0124	-4.1	1.2	2.4	2.3	48.8	3.18	-0.10
DUT0125	-9.1	1.2	2.3	2.2	48.8	3.18	-0.11
DUT0126	-4.1	1.2	2.2	2.6	48.8	3.19	-0.13
DUT0127	-7.2	1.3	2.3	2.0	48.8	3.18	-0.10
DUT0128	-3.2	1.2	2.6	2.3	48.8	3.20	-0.11
DUT0129	-9.1	1.3	2.2	2.0	48.8	3.21	-0.13
DUT0130	-2.2	1.2	2.3	2.2	48.8	3.20	-0.11
DUT0131	-10.1	1.4	2.6	2.2	48.8	3.21	-0.10
DUT0132	-2.2	1.3	2.3	2.0	48.8	3.21	-0.10
DUT0133	-4.1	1.4	2.3	2.5	48.8	3.21	-0.10
DUT0134	-2.2	1.2	2.4	2.3	48.8	3.19	-0.10
DUT0135	-9.1	1.2	2.3	2.6	48.8	3.18	-0.10
DUT0136	-8.2	1.3	2.2	1.9	48.8	3.20	-0.11
DUT0137	-3.2	1.2	2.3	2.6	48.8	3.20	-0.11
DUT0138	-7.6	1.3	2.6	2.3	48.8	3.18	-0.11
DUT0139	-6.1	1.2	2.4	2.4	48.8	3.18	-0.10
DUT0140	-12.0	1.3	2.4	2.3	48.8	3.21	-0.10
DUT0141	-5.9	1.3	2.6	2.3	48.8	3.15	-0.11
DUT0142	-10.9	1.3	2.8	2.2	48.6	3.15	-0.10
DUT0143	-10.3	1.2	2.9	2.3	48.6	3.18	-0.12
DUT0144	-6.4	1.3	2.8	2.3	48.6	3.18	-0.12
DUT0145	-6.4	1.2	2.4	2.4	48.8	3.18	-0.12
DUT0146	-6.4	1.4	2.4	2.3	48.8	3.17	-0.11
DUT0147	-7.3	1.2	2.8	2.3	48.8	3.16	-0.12
DUT0148	4.5	1.3	2.6	2.3	48.8	3.15	-0.11
DUT0149	-1.5	1.2	2.7	2.3	48.6	3.16	-0.10
DUT0150	-7.3	1.3	2.9	2.6	48.6	3.15	-0.10

DUT0151	-3.4	1.3	2.3	2.3	48.6	3.16	-0.11
DUT0152	-2.5	1.3	2.8	2.3	48.6	3.17	-0.11
DUT0153	-5.8	1.4	2.6	2.0	48.6	3.16	-0.10
DUT0154	-5.4	1.3	2.7	2.6	48.6	3.16	-0.12
DUT0155	-3.9	1.2	1.9	2.0	48.6	3.15	-0.11
DUT0156	-8.9	1.0	2.7	2.3	48.6	3.17	-0.11
DUT0157	-4.4	1.3	2.4	1.9	48.6	3.16	-0.12
DUT0158	-5.4	1.2	2.7	2.3	48.6	3.18	-0.09
DUT0159	-7.3	1.3	2.6	2.7	48.6	3.17	-0.11
DUT0160	-1.5	1.3	2.7	1.9	48.6	3.16	-0.10
DUT0161	-5.2	1.3	2.7	2.3	48.8	3.21	-0.10
DUT0162	-7.6	1.3	2.3	2.3	48.8	3.21	-0.10
DUT0163	-3.1	1.4	2.3	2.3	48.8	3.21	-0.10
DUT0164	-10.1	1.3	2.3	2.3	48.8	3.19	-0.10
DUT0165	-3.2	1.2	2.3	2.6	48.8	3.22	-0.12
DUT0166	-9.1	1.2	2.3	2.6	48.8	3.19	-0.09
DUT0167	-2.1	1.2	2.5	2.6	48.8	3.19	-0.13
DUT0168	-8.2	1.2	2.3	2.0	48.8	3.19	-0.10
DUT0169	-3.2	1.3	2.3	2.0	48.8	3.20	-0.11
DUT0170	-7.2	1.3	2.3	1.9	48.8	3.18	-0.10
DUT0171	-3.1	1.3	2.4	2.4	48.8	3.20	-0.11
DUT0172	-0.8	1.2	2.3	2.2	48.8	3.21	-0.10
DUT0173	-5.2	1.3	2.3	2.5	48.8	3.21	-0.09
DUT0174	-9.1	1.1	2.3	2.3	48.8	3.18	-0.10
DUT0175	-4.1	1.2	2.3	2.5	48.9	3.21	-0.10
DUT0176	-7.2	1.2	2.4	2.3	48.4	3.20	-0.11
DUT0177	-10.5	1.3	2.3	2.3	48.8	3.19	-0.10
DUT0178	-9.1	1.2	2.3	2.2	48.8	3.20	-0.11
DUT0179	-5.2	1.2	2.3	2.3	48.8	3.20	-0.11
DUT0180	-8.6	1.2	2.3	2.6	48.8	3.20	-0.11
DUT0181	-8.2	1.3	2.6	2.0	48.8	3.22	-0.11
DUT0182	-9.1	1.3	2.3	2.3	48.8	3.18	-0.10
DUT0183	0.7	1.2	2.3	2.4	48.8	3.18	-0.10
DUT0184	-5.2	1.2	2.4	2.3	48.8	3.18	-0.10
DUT0185	-6.2	1.3	2.6	2.3	48.8	3.21	-0.09
DUT0186	-4.1	1.2	2.4	2.4	48.8	3.21	-0.10
DUT0187	-6.2	1.3	2.4	2.3	48.8	3.19	-0.12
DUT0188	-3.1	1.3	2.2	2.3	48.8	3.21	-0.10
DUT0189	-7.7	1.3	2.3	2.3	48.8	3.18	-0.10
DUT0190	-7.1	1.3	2.4	2.4	48.8	3.22	-0.11
DUT0191	-3.1	1.3	2.4	2.3	48.8	3.20	-0.11
DUT0192	-6.1	1.3	2.5	2.3	48.8	3.18	-0.10
DUT0193	-1.2	1.3	2.6	2.3	48.6	3.19	-0.10
DUT0194	-6.1	1.3	2.3	2.3	48.8	3.18	-0.10
DUT0195	-5.2	1.3	2.5	2.3	48.8	3.19	-0.10
DUT0196	-4.1	1.3	2.6	2.4	48.8	3.18	-0.10
DUT0197	0.8	1.3	2.3	2.3	48.8	3.20	-0.11
DUT0198	-9.1	1.2	2.3	2.3	48.6	3.21	-0.10
DUT0199	-2.2	1.2	2.3	2.3	48.8	3.18	-0.10
DUT0200	-6.1	1.2	2.3	2.5	48.8	3.19	-0.10

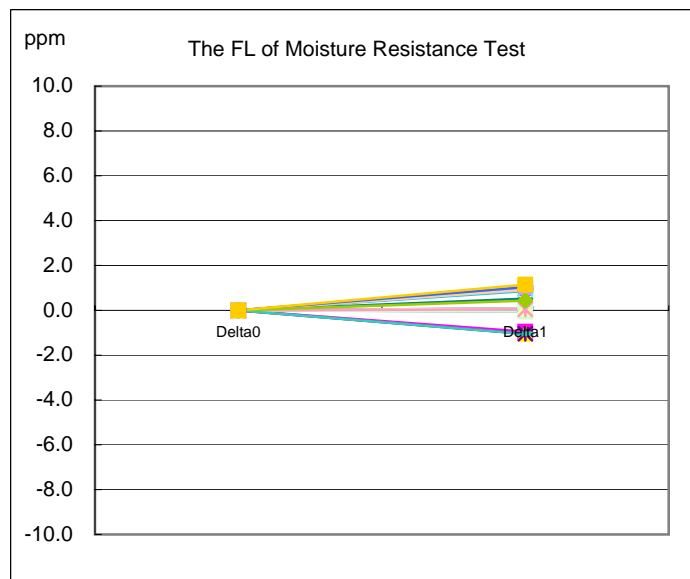
## NO.1 Aging Test

The FL of Aging Test				
NO.	Before	After	Delta0	Delta1
1	-3.2	-2.1	0.0	1.1
2	-5.2	-5.2	0.0	0.0
3	-4.1	-6.1	0.0	-1.9
4	-3.2	-5.2	0.0	-1.9
5	-8.2	-7.1	0.0	1.1
6	-2.2	-4.1	0.0	-1.9
7	-9.1	-8.6	0.0	0.4
8	-11.7	-12.0	0.0	-0.3
9	-4.1	-5.2	0.0	-1.0
10	-2.2	-3.2	0.0	-1.0
11	-1.2	-1.2	0.0	0.0
12	0.8	-0.2	0.0	-1.0
13	-4.1	-3.2	0.0	0.9
14	-6.1	-7.7	0.0	-1.7
15	-10.6	-10.1	0.0	0.6
16	-9.1	-9.1	0.0	0.0
17	-3.2	-5.2	0.0	-1.9
18	-3.1	-3.8	0.0	-0.7
19	-1.2	-3.2	0.0	-2.0
20	-0.2	-1.2	0.0	-1.0



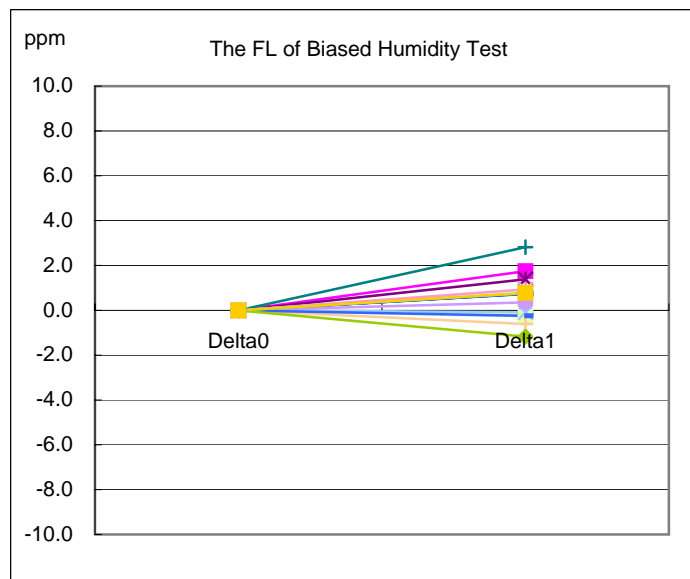
## NO.2 Moisture Resistance Test

The FL of Moisture Resistance Test				
NO.	Before	After	Delta0	Delta1
1	-7.1	-7.1	0.0	0.0
2	-4.1	-5.1	0.0	-1.0
3	-5.2	-6.2	0.0	-1.0
4	-6.2	-5.2	0.0	1.0
5	-6.1	-7.1	0.0	-1.0
6	-2.1	-1.2	0.0	0.9
7	-7.6	-7.1	0.0	0.5
8	1.1	1.2	0.0	0.1
9	-7.1	-6.2	0.0	0.9
10	-5.2	-4.2	0.0	1.0
11	-4.1	-4.2	0.0	-0.1
12	-10.1	-10.0	0.0	0.1
13	-9.1	-8.1	0.0	1.0
14	-4.1	-4.1	0.0	0.0
15	-4.1	-3.2	0.0	0.9
16	1.8	2.7	0.0	0.9
17	-2.2	-1.2	0.0	1.0
18	-4.1	-5.2	0.0	-1.1
19	-2.1	-1.7	0.0	0.4
20	-3.2	-2.1	0.0	1.1



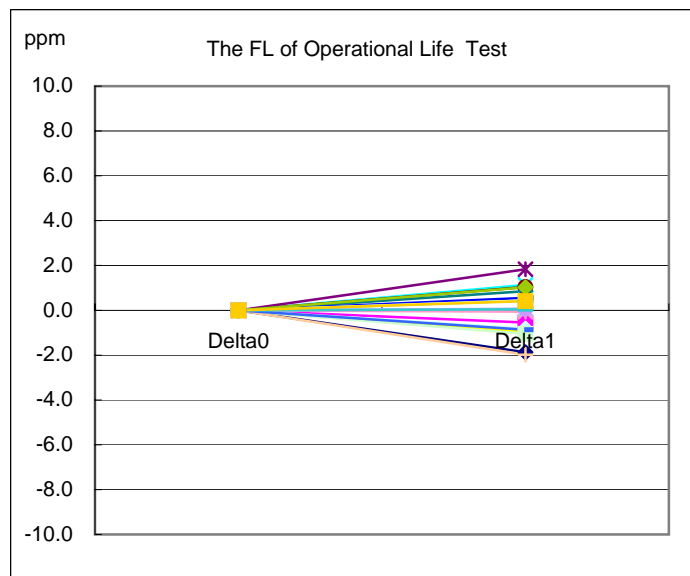
### NO.3 Biased Humidity Test

The FL of Biased Humidity Test				
NO.	Before	After	Delta0	Delta1
1	-4.1	-3.4	0.0	0.7
2	-4.1	-2.4	0.0	1.7
3	-6.2	-5.3	0.0	0.9
4	-6.2	-5.3	0.0	0.9
5	-8.2	-6.8	0.0	1.4
6	-5.2	-5.3	0.0	-0.1
7	0.8	3.6	0.0	2.8
8	-2.1	-1.4	0.0	0.7
9	-0.2	0.6	0.0	0.8
10	-6.2	-5.3	0.0	0.9
11	15.6	15.3	0.0	-0.3
12	-5.2	-5.3	0.0	-0.1
13	2.7	2.6	0.0	-0.1
14	-1.2	-0.3	0.0	0.9
15	-5.2	-4.8	0.0	0.4
16	-1.8	-2.4	0.0	-0.6
17	-6.1	-6.3	0.0	-0.2
18	-4.1	-3.4	0.0	0.7
19	-0.2	-1.4	0.0	-1.2
20	-9.1	-8.3	0.0	0.8



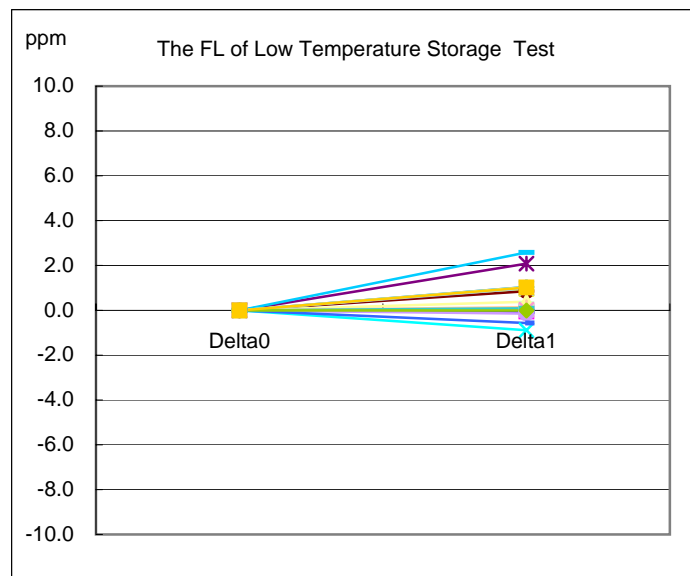
## NO.4 Operational Life Test

The FL of Operational Life Test				
NO.	Before	After	Delta0	Delta1
1	-0.2	-2.1	0.0	-1.9
2	-6.1	-6.6	0.0	-0.5
3	-4.1	-5.1	0.0	-1.0
4	-1.2	-0.1	0.0	1.1
5	-1.2	0.6	0.0	1.8
6	-2.2	-1.2	0.0	1.0
7	-6.1	-5.2	0.0	0.9
8	-5.2	-4.6	0.0	0.6
9	-1.2	-0.8	0.0	0.4
10	-8.2	-9.0	0.0	-0.8
11	-4.1	-5.2	0.0	-1.1
12	-3.1	-2.7	0.0	0.4
13	-5.2	-5.1	0.0	0.1
14	-3.1	-3.2	0.0	-0.1
15	-8.1	-8.0	0.0	0.1
16	0.8	-1.2	0.0	-2.0
17	-1.2	-2.1	0.0	-0.9
18	-3.2	-3.2	0.0	0.0
19	-0.2	0.8	0.0	1.0
20	-6.6	-6.2	0.0	0.4



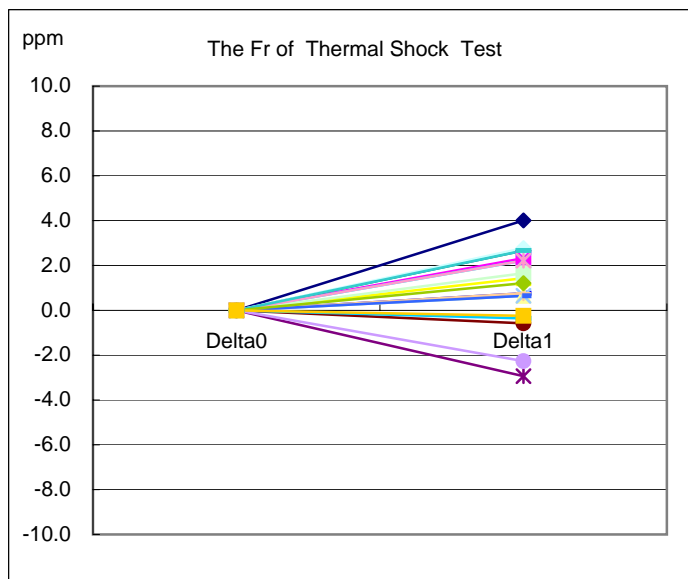
## NO.5 Low Temperature Storage Test

The FL of Low Temperature Storage Test				
NO.	Before	After	Delta0	Delta1
1	-4.1	-4.1	0.0	0.0
2	-4.1	-4.2	0.0	-0.1
3	-5.2	-4.2	0.0	1.0
4	2.7	1.8	0.0	-0.9
5	-8.2	-6.1	0.0	2.1
6	-6.1	-5.2	0.0	0.9
7	-3.1	-2.1	0.0	1.0
8	-4.1	-4.2	0.0	-0.1
9	-8.2	-5.6	0.0	2.6
10	-1.2	-0.2	0.0	1.0
11	-4.1	-4.1	0.0	0.0
12	-10.1	-9.7	0.0	0.4
13	-10.1	-9.1	0.0	1.0
14	-0.2	-0.2	0.0	0.0
15	-6.1	-6.2	0.0	-0.1
16	-2.2	-2.1	0.0	0.1
17	-1.2	-1.8	0.0	-0.6
18	-11.1	-11.0	0.0	0.1
19	-12.0	-12.0	0.0	0.0
20	0.8	1.8	0.0	1.0



## NO.6 Thermal Shock Test

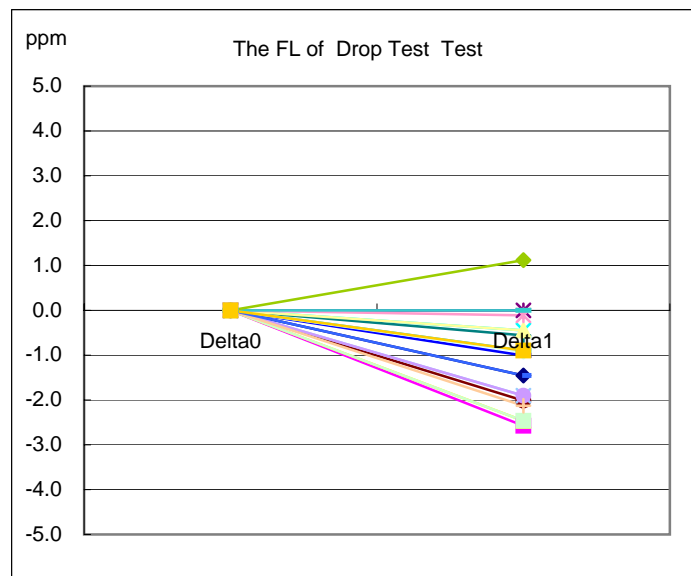
The Fr of Thermal Shock Test				
NO.	Before	After	Delta0	Delta1
1	-1.8	2.2	0.0	4.0
2	-4.1	-1.8	0.0	2.3
3	-6.2	-4.7	0.0	1.4
4	-2.1	0.1	0.0	2.2
5	14.9	12.0	0.0	-2.9
6	0.1	-0.5	0.0	-0.6
7	-9.1	-6.4	0.0	2.7
8	-0.2	0.5	0.0	0.8
9	-2.1	-2.5	0.0	-0.4
10	-7.2	-4.4	0.0	2.8
11	-7.2	-5.5	0.0	1.7
12	-3.7	-3.1	0.0	0.6
13	-3.1	-2.5	0.0	0.6
14	-3.2	-1.0	0.0	2.2
15	1.8	-0.5	0.0	-2.3
16	-5.2	-4.4	0.0	0.8
17	-7.1	-6.4	0.0	0.6
18	-1.2	1.4	0.0	2.7
19	-2.7	-1.5	0.0	1.2
20	-5.2	-5.4	0.0	-0.2





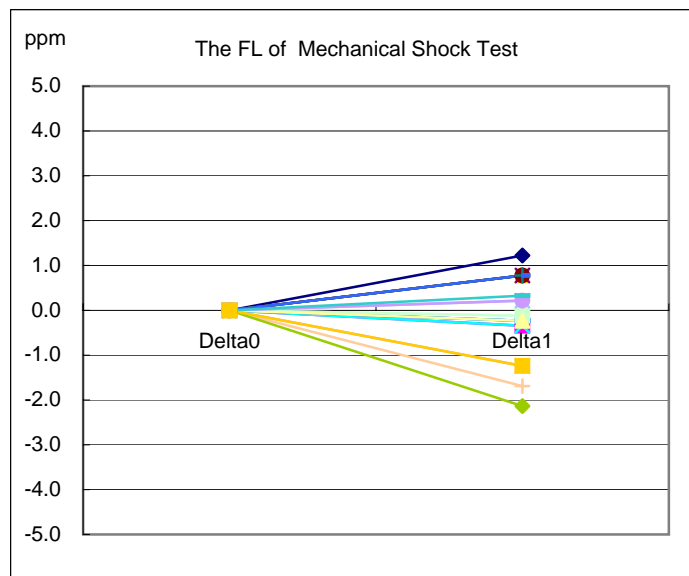
## NO.7 Drop Test

The FL of Drop Test Test				
NO.	Before	After	Delta0	Delta1
1	-5.2	-6.6	0.0	-1.5
2	8.6	6.1	0.0	-2.6
3	-5.7	-8.2	0.0	-2.5
4	-3.7	-4.1	0.0	-0.4
5	-9.1	-9.1	0.0	0.0
6	-2.1	-4.1	0.0	-2.0
7	-6.6	-7.2	0.0	-0.6
8	-2.2	-3.2	0.0	-1.0
9	-8.2	-9.1	0.0	-0.9
10	-1.2	-2.2	0.0	-0.9
11	-7.6	-10.1	0.0	-2.5
12	-1.8	-2.2	0.0	-0.4
13	-2.2	-4.1	0.0	-1.9
14	-2.1	-2.2	0.0	-0.1
15	-7.2	-9.1	0.0	-1.9
16	-6.1	-8.2	0.0	-2.1
17	-1.8	-3.2	0.0	-1.5
18	-7.6	-7.6	0.0	0.0
19	-7.2	-6.1	0.0	1.1
20	-11.1	-12.0	0.0	-0.9



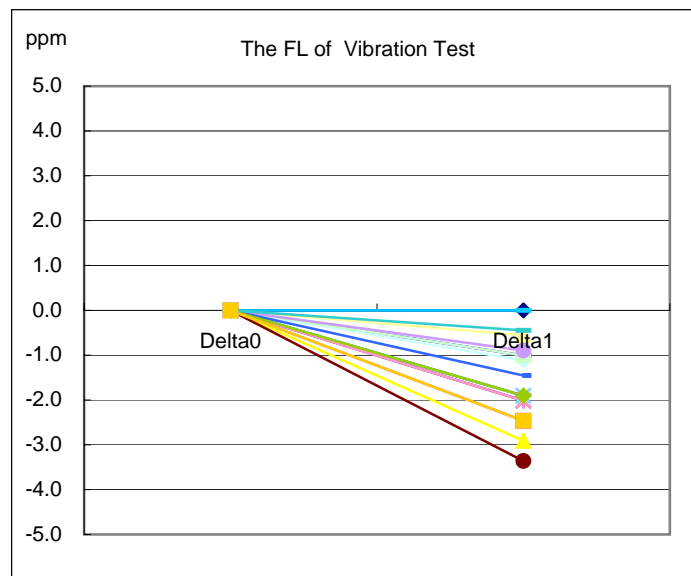
## NO.8 Mechanical Shock Test

The FL of Mechanical Shock Test				
NO.	Before	After	Delta0	Delta1
1	-7.2	-5.9	0.0	1.2
2	-10.5	-10.9	0.0	-0.3
3	-11.1	-10.3	0.0	0.8
4	-6.1	-6.4	0.0	-0.3
5	-7.2	-6.4	0.0	0.8
6	-7.2	-6.4	0.0	0.8
7	-8.1	-7.3	0.0	0.8
8	4.7	4.5	0.0	-0.2
9	-1.2	-1.5	0.0	-0.2
10	-7.2	-7.3	0.0	-0.1
11	-3.2	-3.4	0.0	-0.1
12	-2.2	-2.5	0.0	-0.2
13	-6.1	-5.8	0.0	0.2
14	-4.1	-5.4	0.0	-1.2
15	-4.1	-3.9	0.0	0.2
16	-7.2	-8.9	0.0	-1.7
17	-5.2	-4.4	0.0	0.8
18	-5.7	-5.4	0.0	0.3
19	-5.2	-7.3	0.0	-2.1
20	-0.2	-1.5	0.0	-1.2



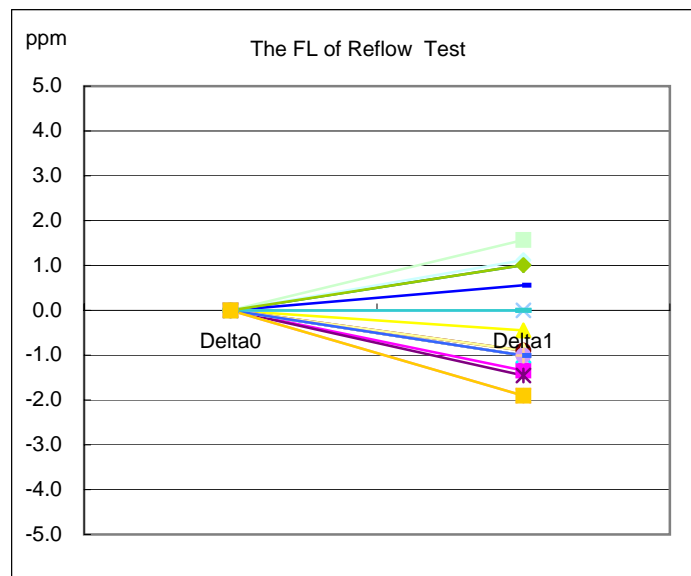
## NO.9 Vibration Test

The FL of Vibration Test				
NO.	Before	After	Delta0	Delta1
1	-5.2	-5.2	0.0	0.0
2	-5.2	-7.6	0.0	-2.5
3	-0.2	-3.1	0.0	-2.9
4	-8.2	-10.1	0.0	-1.9
5	-1.2	-3.2	0.0	-2.0
6	-5.7	-9.1	0.0	-3.4
7	-0.2	-2.1	0.0	-1.9
8	-7.2	-8.2	0.0	-1.0
9	-3.2	-3.2	0.0	0.0
10	-6.1	-7.2	0.0	-1.1
11	-2.1	-3.1	0.0	-1.0
12	-0.2	-0.8	0.0	-0.6
13	-3.2	-5.2	0.0	-1.9
14	-7.1	-9.1	0.0	-2.0
15	-3.2	-4.1	0.0	-0.9
16	-4.7	-7.2	0.0	-2.5
17	-9.1	-10.5	0.0	-1.5
18	-8.6	-9.1	0.0	-0.4
19	-3.2	-5.2	0.0	-1.9
20	-6.2	-8.6	0.0	-2.5



## NO.10 Reflow Test

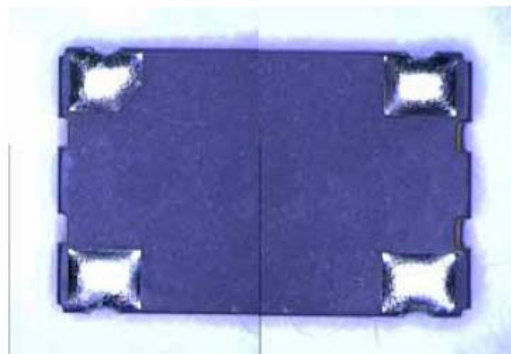
The FL of Reflow Test				
NO.	Before	After	Delta0	Delta1
1	-7.2	-8.2	0.0	-1.0
2	-7.7	-9.1	0.0	-1.3
3	1.1	0.7	0.0	-0.4
4	-4.1	-5.2	0.0	-1.0
5	-4.7	-6.2	0.0	-1.5
6	-3.2	-4.1	0.0	-0.9
7	-7.2	-6.2	0.0	1.0
8	-3.7	-3.1	0.0	0.6
9	-7.7	-7.7	0.0	0.0
10	-8.2	-7.1	0.0	1.1
11	-4.7	-3.1	0.0	1.6
12	-5.2	-6.1	0.0	-0.9
13	-1.2	-1.2	0.0	0.0
14	-4.1	-6.1	0.0	-1.9
15	-4.1	-5.2	0.0	-1.0
16	-3.1	-4.1	0.0	-1.0
17	1.8	0.8	0.0	-1.0
18	-9.1	-9.1	0.0	0.0
19	-3.2	-2.2	0.0	1.0
20	-4.1	-6.1	0.0	-1.9



# NO.11 Solderability Test

## Test Report

Item	referenced criterion	Test condition	Criterion	Result				
Solderability	J-STD-002	lead-based products and for products, does not require electrical performance testing. Microscopy 50 X; Conditions: Lead products: A: 235 °C, steam aging 8H	More than 95% coverage	1	2	3	4	5
				√	√	√	√	√
				6	7	8	9	10
				√	√	√	√	√
				11	12	13	14	15
				√	√	√	√	√
				16	17	18	19	20
√	√	√	√	√				



# NO.12 Terminal Strength Test

## Test Report

Item	referenced criterion	Test condition	Criterion	Result				
				1	2	3	4	5
Terminal Strength (lead)	JISC60068-2-21	1.8kg, respectively, as required to provide the tangential thrust (60 seconds) and 1.8kg of the vertical tension (60 seconds)	electrode no rupture	✓	✓	✓	✓	✓
				6	7	8	9	10
				✓	✓	✓	✓	✓
				11	12	13	14	15
				✓	✓	✓	✓	✓
				16	17	18	19	20
				✓	✓	✓	✓	✓