

COM-915

Reliability Prediction Report (MTBF)

Report NO : 09E070006

03-19-2009

Issue Date

Wenyuan Yang

Manager

Jessica Chou

Test Engineer

Reliability Prediction (MTBF)

I . **Model Name:** COM-915-A20

II . **Prediction Date:** Mar. 19, 2009

III . **Prediction Site:** AAEON Q.E. Dept.

IV . **Predicted by:** Jessica Chou

V . **Equipment:** Relex Ver.7.3 Visual Reliability Software

VI . **Simulation Environment:**

- Temperature: 25 degrees C
- Standard: Telcordia (Bellcore) Standard

VII . **Term and Definition:**

- Unit : An assembly of device.
- Duty Cycle : Used to specify the percentage of time that the element is in an on state, and it is equal to the percentage of total time the item is in the active environment.
- Quantity : The quantity of the selected item.
- Failure Rate : Used to specify that the failure rate is to be calculated based the selected Calculation models. The multiplier is 1,000,000.
- MTBF : MTBF is always specified in hours.

VIII . **Prediction Result:**

- COM-915-A20:
Failure Rate: 9.187949 ppm
MTBF: 108,838 Hours

AAEON Reliability Prediction Report

Part Number 9697091521-DIP
Reference Des
Date 03. 19, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00



Description Top-level assembly
File Name COM-915-A20.RPJ
Time 5:28 下午
Failure Rate 9.187949
MTBF 108,838

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
COM-915-A20	9697091521-DIP	Telcordia	Method I Case 3	GF, GU - Ground Fixed,	100.00	1.00	9.187949	108,838

AAEON Reliability Prediction Report

Part Number 9697091521-DIP
Reference Des
Date 03. 19, 2009
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 25.00

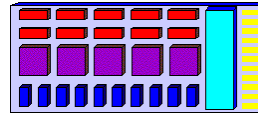


Description Top-level assembly
File Name COM-915-A20.RPJ
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Failure Rate 9.187949
MTBF 108,838

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
11E9501090	Capacitor	C187,C201,C246,C285,C318,C319,C369,C390,C402	Telcordia Issue 1	Level I		0.004535	9.00	.4443	0.040819	220487045.01
1124405090	Capacitor	C239,C240	Telcordia Issue 1	Level I		0.004535	2.00	.0987	0.009071	220487045.01
1129722091	Capacitor	C294,C297	Telcordia Issue 1	Level I		0.004535	2.00	.0987	0.009071	220487045.01
1129722060	Capacitor	C296	Telcordia Issue 1	Level I		0.004535	1.00	.0494	0.004535	220487045.01
1121610060	Capacitor	C302,C311,C315,C316,C327,C328,C365,C366,C391,C392	Telcordia Issue 1	Level I		0.004535	10.00	.4936	0.045354	220487045.01
1189633181	Capacitor	C317,C321,C322,C330,C339	Telcordia Issue 1	Level I		0.004535	5.00	.2468	0.022677	220487045.01
1124547290	Capacitor	C324,C333	Telcordia Issue 1	Level I		0.004535	2.00	.0987	0.009071	220487045.01
1129710390	Capacitor	C343,C349	Telcordia Issue 1	Level I		0.004535	2.00	.0987	0.009071	220487045.01
1124527850	Capacitor	C368	Telcordia Issue 1	Level I		0.004535	1.00	.0494	0.004535	220487045.01
1121733780	Capacitor	C372,C382	Telcordia Issue 1	Level I		0.005466	2.00	.1190	0.010931	182961702.19
1124522280	Capacitor	C380,C383,C404	Telcordia Issue 1	Level I		0.004535	3.00	.1481	0.013606	220487045.01
1124515850	Capacitor	C387	Telcordia Issue 1	Level I		0.004535	1.00	.0494	0.004535	220487045.01
1124556180	Capacitor	C389	Telcordia Issue 1	Level I		0.004535	1.00	.0494	0.004535	220487045.01
16515A0997	Connection	DIMM1	Telcordia Issue 1	Level I		0.113794	1.00	1.2385	0.113794	8787802.71
1301005444	Semiconductor	D1,D10,D2,D3,D9	Telcordia Issue 1	Level I		0.023881	5.00	1.2996	0.119405	41874327.58
105A506823	Resistor	R314,R333	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
1301005440	Semiconductor	D5,D6,D7	Telcordia Issue 1	Level I		0.023881	3.00	.7797	0.071643	41874327.58
1301003440	Semiconductor	D11,D8	Telcordia Issue 1	Level I		0.023881	2.00	.5198	0.047762	41874327.58
1304101340	Semiconductor	LED1	Telcordia Issue 1	Level I		0.004877	1.00	.0531	0.004877	205063180.81
1211100102	Inductor	L15,L2,L3	Telcordia Issue 1	Level I		0.086173	3.00	2.8137	0.258519	11604581.32
1212306033	Inductor	L10,L11,L12,L13,L8, L9	Telcordia Issue 1	Level I		0.002268	6.00	.1481	0.013606	440974090.03
121230805L	Inductor	L16,L17,L20,L22,L7	Telcordia Issue 1	Level I		0.002268	5.00	.1234	0.011339	440974090.03
1212306030	Inductor	L14,L18,L19,R275	Telcordia Issue 1	Level I		0.002268	4.00	.0987	0.009071	440974090.03
1211103366	Inductor	L23	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
1211103366	Inductor	L21	Telcordia Issue 1	Level I	40.90	0.004588	1.00	.0499	0.004588	217949075.86
121110010R	Inductor	L27	Telcordia Issue 1	Level I	13.10	0.110194	1.00	1.1993	0.110194	9074888.00
121110010R	Inductor	L26	Telcordia Issue 1	Level I	12.10	0.108224	1.00	1.1779	0.108224	9240063.72
1314043210	Integrated Circuit	Q1	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92

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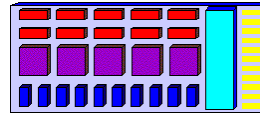


Description Top-level assembly
File Name COM-915-A20.RPJ
Time 5:28 下午
Failure Rate 9.187949
MTBF 108,838

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
1310390410	Semiconductor	Q14,Q15,Q21,Q3	Telcordia Issue 1	Level I		0.023881	4.00	1.0397	0.095524	41874327.58
1314158210	Integrated Circuit	Q4	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92
1315700310	Semiconductor	Q8,Q9	Telcordia Issue 1	Level I		0.079603	2.00	1.7328	0.159207	12562298.27
1315700310	Semiconductor	Q7	Telcordia Issue 1	Level I	37.30	0.206396	1.00	2.2464	0.206396	4845062.18
1315700310	Semiconductor	Q5	Telcordia Issue 1	Level I	19.30	0.134021	1.00	1.4587	0.134021	7461539.26
1315700211	Semiconductor	Q10,Q11,Q12,Q16, Q18,Q20,Q22	Telcordia Issue 1	Level I		0.079603	7.00	6.0647	0.557223	12562298.27
1540722085	Resistor	RN1,RN2	Telcordia Issue 1	Level I		0.012492	2.00	.2719	0.024984	80051386.00
105A520003	Resistor	R1,R363,R366,R37	Telcordia Issue 1	Level I		0.002268	4.00	.0987	0.009071	440974090.03
105A705609	Resistor	R104,R110,R16,R2, R212,R213,R214, R215,R216,R217, R218,R219,R221, R222,R223,R225, R226,R227,R228, R229,R230,R231, R232,R233,R234, R235,R236,R237, R238,R239,R26,R61, R62,R63,R64,R65, R66,R67,R68,R69, R70,R71,R72,R73	Telcordia Issue 1	Level I		0.002268	57.00	1.4068	0.129259	440974090.03
105A527463	Resistor	R19,R3,R5	Telcordia Issue 1	Level I		0.002268	3.00	.0740	0.006803	440974090.03
105A554963	Resistor	R14,R29,R33,R4,R6	Telcordia Issue 1	Level I		0.002268	5.00	.1234	0.011339	440974090.03
105A700009	Resistor	R103,R106,R11,R111, R114,R116,R12,R191, R197,R250,R254, R256,R273,R274, R313,R34,R344,R345, R346,R350,R360, R364,R369,R395, R397,R398,R401, R402,R55,R56,R7	Telcordia Issue 1	Level I		0.002268	31.00	.7651	0.070299	440974090.03
105A539263	Resistor	R15	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A515003	Resistor	R13,R17,R41,R42, R43,R50,R51,R52	Telcordia Issue 1	Level I		0.002268	8.00	.1975	0.018142	440974090.03
105A768003	Resistor	R18	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A500133	Resistor	R139,R21,R301,R365, R93	Telcordia Issue 1	Level I		0.002268	5.00	.1234	0.011339	440974090.03

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105A700003	Resistor	R209,R22,R277,R280, R283,R288,R289, R292,R298,R300, R308,R318,R326,R92	Telcordia Issue 1	Level I		0.002268	14.00	.3455	0.031748	440974090.03
105A500233	Resistor	R23,R304	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A522103	Resistor	R138,R27,R31	Telcordia Issue 1	Level I		0.002268	3.00	.0740	0.006803	440974090.03
105A510003	Resistor	R134,R28,R32,R36	Telcordia Issue 1	Level I		0.002268	4.00	.0987	0.009071	440974090.03
105A524963	Resistor	R107,R115,R30,R35, R60	Telcordia Issue 1	Level I		0.002268	5.00	.1234	0.011339	440974090.03
105A710009	Resistor	R112,R113,R117, R118,R119,R120,R38	Telcordia Issue 1	Level I		0.002268	7.00	.1728	0.015874	440974090.03
105A701039	Resistor	R144,R145,R146, R148,R196,R200, R210,R211,R241, R242,R243,R244, R245,R246,R267, R270,R271,R303, R309,R341,R370, R371,R373,R375, R376,R385,R389,R39, R390,R391,R40,R94	Telcordia Issue 1	Level I		0.002268	32.00	.7898	0.072567	440974090.03
105A702229	Resistor	R153,R154,R202, R268,R357,R44,R45, R46,R47,R48,R49	Telcordia Issue 1	Level I		0.002268	11.00	.2715	0.024945	440974090.03
105A703903	Resistor	R53,R54	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A525503	Resistor	R57	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A549913	Resistor	R58	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A701523	Resistor	R59	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A540263	Resistor	R87,R88	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A580663	Resistor	R89,R90	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
1059700001	Resistor	R343,R349,R91	Telcordia Issue 1	Level I		0.002268	3.00	.0740	0.006803	440974090.03
105A700139	Resistor	R10,R147,R155,R249, R252,R253,R257, R259,R260,R269, R359,R362,R379, R386,R396,R95,R97, R99	Telcordia Issue 1	Level I		0.002268	18.00	.4443	0.040819	440974090.03
105A701053	Resistor	R102	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A507509	Resistor	R109,R137	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03

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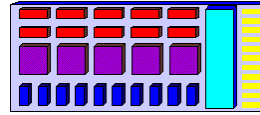


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File Name COM-915-A20.RPJ
Time 5:28 下午
Failure Rate 9.187949
MTBF 108,838

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Failure Rate, Unit	Quantity	Failure Rate, %	Failure Rate	MTBF, Unit
105A703309	Resistor	R121,R122,R156, R158,R160,R162, R164,R166,R168, R170,R172,R174, R176,R178,R180, R182,R184,R185, R187,R188,R189, R190,R192,R195, R240,R377,R380	Telcordia Issue 1	Level I		0.002268	27.00	.6664	0.061228	440974090.03
105A522663	Resistor	R130	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A710053	Resistor	R132	Telcordia Issue 1	Level I		0.013606	1.00	.1481	0.013606	73495681.67
105A701003	Resistor	R135,R286	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A700103	Resistor	R136,R316,R329	Telcordia Issue 1	Level I		0.002268	3.00	.0740	0.006803	440974090.03
105A708229	Resistor	R140,R141,R142, R150,R151,R186	Telcordia Issue 1	Level I		0.002268	6.00	.1481	0.013606	440974090.03
105A733009	Resistor	R143	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A549969	Resistor	R157,R159,R161, R163,R165,R167, R169,R171,R173, R175,R177,R179, R181,R183,R347, R348	Telcordia Issue 1	Level I		0.002268	16.00	.3949	0.036283	440974090.03
105A547503	Resistor	R199	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A501039	Resistor	R207,R208	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A511503	Resistor	R220	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A518703	Resistor	R224	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A510009	Resistor	R247,R248,R262	Telcordia Issue 1	Level I		0.002268	3.00	.0740	0.006803	440974090.03
105A702233	Resistor	R255	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A710039	Resistor	R258,R378,R381, R384	Telcordia Issue 1	Level I		0.002268	4.00	.0987	0.009071	440974090.03
105A701009	Resistor	R264	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A561903	Resistor	R265	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A554903	Resistor	R266	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A701539	Resistor	R276,R287	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A512103	Resistor	R278,R279	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A702263	Resistor	R281,R290,R295, R299	Telcordia Issue 1	Level I		0.002268	4.00	.0987	0.009071	440974090.03
105A556003	Resistor	R282	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03

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105A500333	Resistor	R284	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A503323	Resistor	R293	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A704729	Resistor	R263,R272,R296, R335,R353,R354, R355,R356,R399	Telcordia Issue 1	Level I		0.002268	9.00	.2221	0.020409	440974090.03
105A502033	Resistor	R123,R297	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A511313	Resistor	R302	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A501623	Resistor	R305	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A510213	Resistor	R306	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A532413	Resistor	R307,R330	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
105A510033	Resistor	R310	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A520033	Resistor	R315	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A501223	Resistor	R317	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A554923	Resistor	R334	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A545323	Resistor	R336	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A507533	Resistor	R338	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A535713	Resistor	R339	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
105A510513	Resistor	R291,R342	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
14S428010B	Integrated Circuit	U3	Telcordia Issue 1	Level I	12.80	0.053869	1.00	.5863	0.053869	18563404.90
14S9951500	Integrated Circuit	U4	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92
14S3420600	Integrated Circuit	U5	Telcordia Issue 1	Level I	29.80	0.430771	1.00	4.6884	0.430771	2321419.22
1651203291	Connection	U7	Telcordia Issue 1	Level I		0.018207	1.00	.1982	0.018207	54923766.92
14S5A00601	Integrated Circuit	U9	Telcordia Issue 1	Level I		0.026183	1.00	.2850	0.026183	38193355.79
14S4256200	Inductor	U10	Telcordia Issue 1	Level I	22.50	0.205009	1.00	2.2313	0.205009	4877826.59
14S6334610	Integrated Circuit	U11	Telcordia Issue 1	Level I		0.022943	1.00	.2497	0.022943	43586356.53
14S2921400	Integrated Circuit	U13,U16	Telcordia Issue 1	Level I		0.059366	2.00	1.2923	0.118732	16844654.92
14S4653700	Integrated Circuit	U19	Telcordia Issue 1	Level I	33.40	0.534251	1.00	5.8147	0.534251	1871779.55
14S4621700	Integrated Circuit	U24	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92
14S9108500	Integrated Circuit	U27	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92
1231332721	Miscellaneous	Y1	Telcordia Issue 1	Level I		0.150000	1.00	1.6326	0.150000	6666666.67
1124568180	Capacitor	C384	Telcordia Issue 1	Level I		0.004535	1.00	.0494	0.004535	220487045.01

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1050511503	Resistor	R351	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
1050700002	Resistor	R320,R328	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
123131435B	Miscellaneous	Y2	Telcordia Issue 1	Level I		0.150000	1.00	1.6326	0.150000	6666666.67
1231325058	Miscellaneous	Y3	Telcordia Issue 1	Level I		0.150000	1.00	1.6326	0.150000	6666666.67
14S5A00820	Integrated Circuit	U32	Telcordia Issue 1	Level I		0.025195	1.00	.2742	0.025195	39690712.96
1189647181	Capacitor	C331	Telcordia Issue 1	Level I		0.004535	1.00	.0494	0.004535	220487045.01
1189647180	Capacitor	C104,C106,C344, C347,C350,C351, C354,C355,C363,C4, C94,C96	Telcordia Issue 1	Level I		0.004535	12.00	.5924	0.054425	220487045.01
121110010Z	Inductor	L1,L4	Telcordia Issue 1	Level I		0.002268	2.00	.0494	0.004535	440974090.03
121110100F	Inductor	L5,L6	Telcordia Issue 1	Level I		0.086173	2.00	1.8758	0.172346	11604581.32
121110010S	Inductor	L25	Telcordia Issue 1	Level I	22.60	0.003423	1.00	.0373	0.003423	292174378.13
1314108610	Integrated Circuit	Q2	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92
14S5A01402	Integrated Circuit	U31	Telcordia Issue 1	Level I		0.026183	1.00	.2850	0.026183	38193355.79
1315600312	Semiconductor	Q6	Telcordia Issue 1	Level I	33.50	0.189150	1.00	2.0587	0.189150	5286801.20
14S5A00704	Integrated Circuit	U33,U34	Telcordia Issue 1	Level I		0.026183	2.00	.5699	0.052365	38193355.79
1651611992	Connection	U1	Telcordia Issue 1	Level I		0.013655	1.00	.1486	0.013655	73231689.23
1315668012	Semiconductor	U14,U15,U17,U18, U20,U21,U28,U29	Telcordia Issue 1	Level I		0.023881	8.00	2.0793	0.191048	41874327.58
1315889611	Semiconductor	U22,U23,U25,U26	Telcordia Issue 1	Level I		0.079603	4.00	3.4656	0.318413	12562298.27
16540M0001	Connection	CN1,CN2	Telcordia Issue 1	Level I		0.125173	2.00	2.7247	0.250347	7988911.55
105A701860	Resistor	R322,R323,R324, R325	Telcordia Issue 1	Level I		0.002268	4.00	.0987	0.009071	440974090.03
105A501033	Resistor	R331	Telcordia Issue 1	Level I		0.002268	1.00	.0247	0.002268	440974090.03
11C2539290	Capacitor	C408,C409,C410, C411,C412,C413, C414,C415	Telcordia Issue 1	Level I		0.004535	8.00	.3949	0.036283	220487045.01
1540782282	Resistor	RN10,RN11,RN12, RN13,RN14,RN3,RN4, RN5,RN6,RN7,RN8, RN9	Telcordia Issue 1	Level I		0.012492	12.00	1.6315	0.149904	80051386.00
1311390610	Semiconductor	Q13	Telcordia Issue 1	Level I		0.023881	1.00	.2599	0.023881	41874327.58
1305099140	Semiconductor	D12,D13	Telcordia Issue 1	Level I		0.079603	2.00	1.7328	0.159207	12562298.27
1300001440	Semiconductor	D14,D15,D16	Telcordia Issue 1	Level I		0.023881	3.00	.7797	0.071643	41874327.58
1301005442	Semiconductor	D17,D20,D21	Telcordia Issue 1	Level I		0.023881	3.00	.7797	0.071643	41874327.58
14S4195710	Integrated Circuit	U35	Telcordia Issue 1	Level I		0.059366	1.00	.6461	0.059366	16844654.92

