

AQ7-LN

Reliability Prediction Report (MTBF)

Summary	Failure Rate: 8.800730 ppm MTBF: 113,627 Hours
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Issue date	Approval	Test Engineer
2011/04/25	Jansin Lee	Jessica Chou

Reliability Prediction (MTBF)

I . Model Name: AQ7-LN(9697LUNA27-D)

II . Prediction Date: Apr. 25, 2011

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

IV . Predicted by: Jessica Chou

V . Equipment: Relx Ver.7.3 Visual Reliability Software

VI. Simulation Environment:

- Temperature: 22.5 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:

AQ7-LN(9697LUNA27-D):

- Failure Rate: 8.800730 ppm

- MTBF: 113,627 Hours

AAEON Reliability Prediction Report

Part Number 9697LUNA27-D
Reference Des
Date 04. 25, 2011
Environment GF, GU - Ground Fixed, Uncontrolled
Temp. (°C) 22.50



Description Top-level assembly
File Name AQ7-LN.RPJ
Time 10:53
Failure Rate 8.800730
MTBF 113,627

Assembly Name	Part Number	Model	Method	Environment	Duty Cycle	Qty	Failure Rate	MTBF
TF-AQ7-LN-A10	9697LUNA27-D	Telcordia Issue 1	Method I Case 3	GF, GU - Ground Fixed, Uncontrolled	100.00	1.00	8.80	113626.94

AAEON Reliability Prediction Report

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Temp. (°C) 22.50

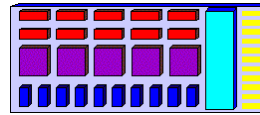


Description Top-level assembly
File Name AQ7-LN.RPJ
Time 10:53
Failure Rate 8.800730
MTBF 113,627

Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1301005444	Semiconductor	D1,D13,D14	Telcordia Issue 1	Level I		3.00	0.022212	.7572	45021049.78
1655910130	Connection	CN2	Telcordia Issue 1	Level I		1.00	0.000997	.0113	1002523191.08
1121501690	Capacitor	C10,C101,C108,C110, C112,C117,C118, C119,C12,C120,C122, C123,C124,C125, C127,C128,C129, C130,C132,C134, C135,C136,C139, C140,C141,C142, C143,C144,C145, C146,C147,C148, C149,C150,C151, C152,C153,C156, C157,C16,C160,C	Telcordia Issue 1	Level I		166.00	0.004317	8.1424	231653238.34
11E9501091	Capacitor	C11,C13,C133,C170, C173,C180,C185, C193,C208,C212, C221,C226,C227, C228,C229,C230, C231,C232,C233, C235,C236,C237, C238,C240,C241, C242,C283,C287, C290,C309,C346, C350,C72,C73,C75	Telcordia Issue 1	Level I		35.00	0.004317	1.7168	231653238.34
1129610080	Capacitor	C159,C166,C188, C200,C239,C252, C255,C256,C262, C265,C266,C267, C270,C274,C293, C295,C298,C306, C308,C314,C315, C316,C317,C319, C326,C338,C339, C340,C344,C357,C84, C85,C96	Telcordia Issue 1	Level I		33.00	0.004317	1.6187	231653238.34
11E9647680	Capacitor	C243,C254,C284	Telcordia Issue 1	Level I		3.00	0.004317	.1472	231653238.34
1129701790	Capacitor	C14,C20,C26,C27, C285,C51,C86	Telcordia Issue 1	Level I		7.00	0.004317	.3434	231653238.34
11C9510050	Capacitor	C105,C106,C113, C114,C121,C131,C15, C273,C296,C299, C302,C303,C328,C98, C99	Telcordia Issue 1	Level I		15.00	0.004317	.7358	231653238.34

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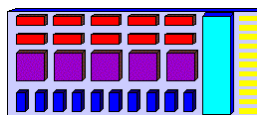


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File Name AQ7-LN.RPJ
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Failure Rate 8.800730
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate,%	MTBF, Unit
1124433690	Capacitor	C36,C37	Telcordia Issue 1	Level I		2.00	0.004317	.0981	231653238.34
1129601080	Capacitor	C288,C291,C40,C46	Telcordia Issue 1	Level I		4.00	0.004317	.1962	231653238.34
1129710390	Capacitor	C109,C42,C49	Telcordia Issue 1	Level I		3.00	0.004317	.1472	231653238.34
1124447180	Capacitor	C44	Telcordia Issue 1	Level I		1.00	0.004317	.0491	231653238.34
1124410190	Capacitor	C100,C45,C48	Telcordia Issue 1	Level I		3.00	0.004317	.1472	231653238.34
1129715090	Capacitor	C47	Telcordia Issue 1	Level I		1.00	0.004317	.0491	231653238.34
1129747090	Capacitor	C50,C52,C53,C54	Telcordia Issue 1	Level I		4.00	0.004317	.1962	231653238.34
11E9622050	Capacitor	C194,C219,C74,C78	Telcordia Issue 1	Level I		4.00	0.004317	.1962	231653238.34
11C1547890	Capacitor	C183,C213	Telcordia Issue 1	Level I		2.00	0.004317	.0981	231653238.34
11E9501090	Capacitor	C103,C104,C107	Telcordia Issue 1	Level I		3.00	0.004317	.1472	231653238.34
1121633180	Capacitor	C115	Telcordia Issue 1	Level I		1.00	0.004317	.0491	231653238.34
11E9522680	Capacitor	C137,C154,C155, C163	Telcordia Issue 1	Level I		4.00	0.004317	.1962	231653238.34
1124522881	Capacitor	C138,C209	Telcordia Issue 1	Level I		2.00	0.004317	.0981	231653238.34
1129710090	Capacitor	C158,C182,C202, C271,C297	Telcordia Issue 1	Level I		5.00	0.004317	.2453	231653238.34
11C2539290	Capacitor	C162,C164,C171, C174,C179,C181, C186,C187	Telcordia Issue 1	Level I		8.00	0.004317	.3924	231653238.34
1129622690	Capacitor	C165,C220,C222, C272,C286	Telcordia Issue 1	Level I		5.00	0.004317	.2453	231653238.34
1121647480	Capacitor	C223	Telcordia Issue 1	Level I		1.00	0.004317	.0491	231653238.34
1124522290	Capacitor	C263	Telcordia Issue 1	Level I		1.00	0.004317	.0491	231653238.34
1124427090	Capacitor	C289,C301,C322, C327,C358	Telcordia Issue 1	Level I		5.00	0.004317	.2453	231653238.34
11C4533880	Capacitor	C292	Telcordia Issue 1	Level I		1.00	0.004317	.0491	231653238.34
1124547190	Capacitor	C333,C335	Telcordia Issue 1	Level I		2.00	0.004317	.0981	231653238.34
1301005447	Semiconductor	D8	Telcordia Issue 1	Level I		1.00	0.022212	.2524	45021049.78
1301053040	Semiconductor	D10,D4,D9	Telcordia Issue 1	Level I		3.00	0.022212	.7572	45021049.78
1301003240	Semiconductor	D5	Telcordia Issue 1	Level I		1.00	0.022212	.2524	45021049.78
1301005450	Semiconductor	D6,D7	Telcordia Issue 1	Level I		2.00	0.022212	.5048	45021049.78
12123C0010	Inductor	FB11,FB2,FB3	Telcordia Issue 1	Level I		3.00	0.002158	.0736	463306476.67
1212306031	Inductor	FB8	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1212306030	Inductor	FB4,FB7	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
12123C0003	Inductor	FB10,FB9	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
121110156G	Inductor	L1,L2,L3	Telcordia Issue 1	Level I		3.00	0.002158	.0736	463306476.67
1211104771	Inductor	L4	Telcordia Issue 1	Level I	20.80	1.00	0.120808	1.3727	8277602.03
1211100102	Inductor	L10,L11,L5,L6	Telcordia Issue 1	Level I		4.00	0.082019	3.7278	12192275.70
121110106D	Inductor	L7	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1211100160	Inductor	L8	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1315700216	Semiconductor	Q15,Q6	Telcordia Issue 1	Level I		2.00	0.074039	1.6826	13506314.93

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File Name AQ7-LN.RPJ
Time 10:53
Failure Rate 8.800730
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Part Number	Category	Location	Calculation Model	Quality	Tem. Rise	Quantity	Failure Rate, Unit	Failure Rate, %	MTBF, Unit
1315662810	Semiconductor	Q21,Q3	Telcordia Issue 1	Level I		2.00	0.074039	1.6826	13506314.93
1314880010	Integrated Circuit	Q4	Telcordia Issue 1	Level I		1.00	0.049367	.5609	20256383.00
1315443510	Semiconductor	Q7	Telcordia Issue 1	Level I		1.00	0.074039	.8413	13506314.93
1310390413	Semiconductor	Q14,Q17	Telcordia Issue 1	Level I		2.00	0.022212	.5048	45021049.78
1311138610	Semiconductor	Q20	Telcordia Issue 1	Level I		1.00	0.022212	.2524	45021049.78
1315033510	Semiconductor	Q22	Telcordia Issue 1	Level I		1.00	0.000000	.0000	.00
1540782282	Resistor	RN1,RN2,RN3,RN4, RN5	Telcordia Issue 1	Level I		5.00	0.011132	.6324	89832031.09
1540722085	Resistor	RP1,RP16,RP17,RP18, RP19,RP2,RP20,RP21, RP22,RP23,RP3,RP4, RP5,RP6,RP7,RP8	Telcordia Issue 1	Level I		16.00	0.011132	2.0238	89832031.09
1540703080	Resistor	RP10,RP11,RP12, RP13,RP14,RP9	Telcordia Issue 1	Level I		6.00	0.005566	.3795	179664062.18
1540747083	Resistor	RP24,RP25,RP26, RP27,RP28,RP29, RP30,RP31	Telcordia Issue 1	Level I		8.00	0.005566	.5060	179664062.18
1540747285	Resistor	RP32	Telcordia Issue 1	Level I		1.00	0.005566	.0632	179664062.18
105A700009	Resistor	R100,R104,R106, R108,R109,R111, R113,R114,R116, R119,R121,R125, R126,R129,R13,R130, R133,R161,R17,R170, R172,R193,R195,R20, R235,R24,R28,R297, R300,R31,R312,R322, R337,R343,R353, R361,R375,R378, R388,R391,R392, R399,R403,R424,	Telcordia Issue 1	Level I		52.00	0.002158	1.2753	463306476.67
105A700003	Resistor	R19,R262,R279	Telcordia Issue 1	Level I		3.00	0.002158	.0736	463306476.67
105A704729	Resistor	R14,R197,R222,R250, R278,R441,R442	Telcordia Issue 1	Level I		7.00	0.002158	.1717	463306476.67
105A701009	Resistor	R12,R206,R25,R26, R286,R450,R9	Telcordia Issue 1	Level I		7.00	0.002158	.1717	463306476.67
105A506829	Resistor	R10,R11	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A701059	Resistor	R15,R27,R363,R396	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
105A701039	Resistor	R102,R120,R124, R134,R139,R16,R162, R163,R21,R228,R329, R330,R351,R352, R406,R407,R423, R425,R426,R444, R460,R61	Telcordia Issue 1	Level I		22.00	0.002158	.5396	463306476.67

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1050701504	Resistor	R18,R270,R285,R298	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
105A556213	Resistor	R23	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A720009	Resistor	R29,R30,R32,R36	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
105A710039	Resistor	R273,R334,R335, R445,R56,R98	Telcordia Issue 1	Level I		6.00	0.002158	.1472	463306476.67
105A501039	Resistor	R110,R131,R194, R221, R229, R230, R238, R241, R251, R252, R253, R255, R256, R257, R258, R259, R261, R265, R268, R271, R272, R283, R284, R287, R288, R289, R296, R307, R318, R319, R320, R331, R338, R340, R342, R35, R350, R366, R369, R374,	Telcordia Issue 1	Level I		56.00	0.002158	1.3734	463306476.67
105A500139	Resistor	R103,R135,R143, R205, R208, R291, R306, R309, R339, R354, R418, R451, R456, R81, R85	Telcordia Issue 1	Level I		15.00	0.002158	.3679	463306476.67
105A700139	Resistor	R148, R234, R317, R457, R458	Telcordia Issue 1	Level I		5.00	0.002158	.1226	463306476.67
105A702209	Resistor	R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191, R192, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52	Telcordia Issue 1	Level I		24.00	0.002158	.5886	463306476.67
1050530124	Resistor	R55	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1050513034	Resistor	R58, R59	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A510009	Resistor	R290, R341, R349, R365, R60	Telcordia Issue 1	Level I		5.00	0.002158	.1226	463306476.67
105A702039	Resistor	R427, R428, R62, R64	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
1050549904	Resistor	R63	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A704709	Resistor	R201, R66	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A503309	Resistor	R101, R408, R68, R88	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
105A702229	Resistor	R328, R387, R70, R86, R97	Telcordia Issue 1	Level I		5.00	0.002158	.1226	463306476.67
1050547004	Resistor	R112, R71	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A505109	Resistor	R324, R325, R358, R359, R75, R76, R77, R78, R79, R80, R92, R93, R94	Telcordia Issue 1	Level I		13.00	0.002158	.3188	463306476.67

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105A500239	Resistor	R299,R95	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A506803	Resistor	R99	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1050501234	Resistor	R160	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A523713	Resistor	R167,R281	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A502133	Resistor	R179	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A522669	Resistor	R180	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A700103	Resistor	R198,R215,R333, R401	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
1050508224	Resistor	R174,R199,R231, R243,R247,R248, R260,R267,R304, R313,R355,R421, R422	Telcordia Issue 1	Level I		13.00	0.002158	.3188	463306476.67
1050524904	Resistor	R200,R332,R345, R395	Telcordia Issue 1	Level I		4.00	0.002158	.0981	463306476.67
105A703309	Resistor	R202,R204	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
1050580664	Resistor	R213,R220	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
1059700001	Resistor	R254	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A515009	Resistor	R263,R269,R277	Telcordia Issue 1	Level I		3.00	0.002158	.0736	463306476.67
105A549969	Resistor	R274,R321	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A575009	Resistor	R280	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A566503	Resistor	R293	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A706829	Resistor	R301,R311	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A545303	Resistor	R344	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1050533034	Resistor	R347,R370	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A703039	Resistor	R348,R367	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
1050556269	Resistor	R356,R372,R377	Telcordia Issue 1	Level I		3.00	0.002158	.0736	463306476.67
105A502039	Resistor	R357	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1050516229	Resistor	R362	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A510053	Resistor	R364	Telcordia Issue 1	Level I		1.00	0.012950	.1472	77217746.11
105A532413	Resistor	R371	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A701003	Resistor	R373	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A518229	Resistor	R389	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A505123	Resistor	R397,R398	Telcordia Issue 1	Level I		2.00	0.002158	.0491	463306476.67
105A549919	Resistor	R415	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A542213	Resistor	R429	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
106B701032	Resistor	R434,R435	Telcordia Issue 1	Level I		2.00	0.009975	.2267	100252319.11
105A509123	Resistor	R436	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
105A588723	Resistor	R452	Telcordia Issue 1	Level I		1.00	0.002158	.0245	463306476.67
1189633160	Capacitor	TC1,TC2,TC3	Telcordia Issue 1	Level I		3.00	0.004317	.1472	231653238.34

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1189627150	Capacitor	TC11,TC4,TC5,TC6, TC7	Telcordia Issue 1	Level I		5.00	0.004317	.2453	231653238.34
1189622151	Capacitor	TC10,TC8	Telcordia Issue 1	Level I		2.00	0.037406	.8501	26733951.76
1189615151	Capacitor	TC12,TC13,TC9	Telcordia Issue 1	Level I		3.00	0.004317	.1472	231653238.34
106B503331	Resistor	TH1	Telcordia Issue 1	Level I		1.00	0.009975	.1133	100252319.11
1315R30310	Integrated Circuit	U3	Telcordia Issue 1	Level I	11.20	1.00	0.110181	1.2520	9075991.56
14S2041500	Integrated Circuit	U4	Telcordia Issue 1	Level I		1.00	0.049367	.5609	20256383.00
14S2048800	Integrated Circuit	U5	Telcordia Issue 1	Level I	14.60	1.00	0.074917	.8513	13348164.49
14S6818400	Integrated Circuit	U10,U24,U26,U27,U8,U9	Telcordia Issue 1	Level I		8.00	0.026610	2.4189	37579543.62
14S6818400	Integrated Circuit	U25	Telcordia Issue 1	Level I	13.50	8.00	0.069533	6.3206	14381709.20
14S6818400	Integrated Circuit	U11	Telcordia Issue 1	Level I	8.80	8.00	0.050253	4.5681	19899290.92
14S4166010	Integrated Circuit	U13	Telcordia Issue 1	Level I	12.00	1.00	0.044984	.5111	22230150.63
14S2045400	Integrated Circuit	U14	Telcordia Issue 1	Level I		1.00	0.049367	.5609	20256383.00
14S4280121	Integrated Circuit	U15	Telcordia Issue 1	Level I	12.00	1.00	0.044984	.5111	22230150.63
14S4081110	Integrated Circuit	U16,U37	Telcordia Issue 1	Level I		2.00	0.049367	1.1219	20256383.00
14S4256701	Integrated Circuit	U17	Telcordia Issue 1	Level I		1.00	0.022576	.2565	44294898.87
1314880011	Integrated Circuit	U18	Telcordia Issue 1	Level I	21.70	1.00	0.222137	2.5241	4501735.53
1314880011	Integrated Circuit	U31	Telcordia Issue 1	Level I		1.00	0.049367	.5609	20256383.00
1314880511	Integrated Circuit	U39	Telcordia Issue 1	Level I	21.40	1.00	0.217871	2.4756	4589869.32
1315050311	Integrated Circuit	U19	Telcordia Issue 1	Level I		1.00	0.049367	.5609	20256383.00
1315422410	Semiconductor	U22,U23	Telcordia Issue 1	Level I		2.00	0.074039	1.6826	13506314.93
14S5A00704	Integrated Circuit	U28,U29	Telcordia Issue 1	Level I		2.00	0.022576	.5130	44294898.87
14S9837860	Integrated Circuit	U30	Telcordia Issue 1	Level I	14.60	1.00	0.051865	.5893	19280766.23
14S3050100	Integrated Circuit	U32	Telcordia Issue 1	Level I	29.40	1.00	0.360928	4.1011	2770631.97
1315970211	Semiconductor	U34,U35	Telcordia Issue 1	Level I		2.00	0.148079	3.3651	6753157.47
14S5A01402	Integrated Circuit	U36	Telcordia Issue 1	Level I		1.00	0.022576	.2565	44294898.87
14S2591200	Integrated Circuit	U38	Telcordia Issue 1	Level I		1.00	0.049367	.5609	20256383.00
1233332722	Miscellaneous	Y1	Telcordia Issue 1	Level I		1.00	0.360000	4.0906	2777777.78
123132505D	Miscellaneous	Y2	Telcordia Issue 1	Level I		1.00	0.150000	1.7044	6666666.67
1231332722	Miscellaneous	Y3	Telcordia Issue 1	Level I		1.00	0.150000	1.7044	6666666.67
123131435J	Miscellaneous	Y4	Telcordia Issue 1	Level I		1.00	0.150000	1.7044	6666666.67
14S634022G	Integrated Circuit	U21	Telcordia Issue 1	Level I		1.00	0.021931	.2492	45598521.89
14S82C6404	Integrated Circuit	U33	Telcordia Issue 1	Level I	14.40	1.00	0.137119	1.5580	7292957.20
14S6203203	Integrated Circuit		Telcordia Issue 1	Level I		1.00	0.022576	.2565	44294898.87
175011901C	Miscellaneous	BAT1	Telcordia Issue 1	Level I		1.00	0.900000	10.2264	1111111.11