Ar/Ar Analytical Data

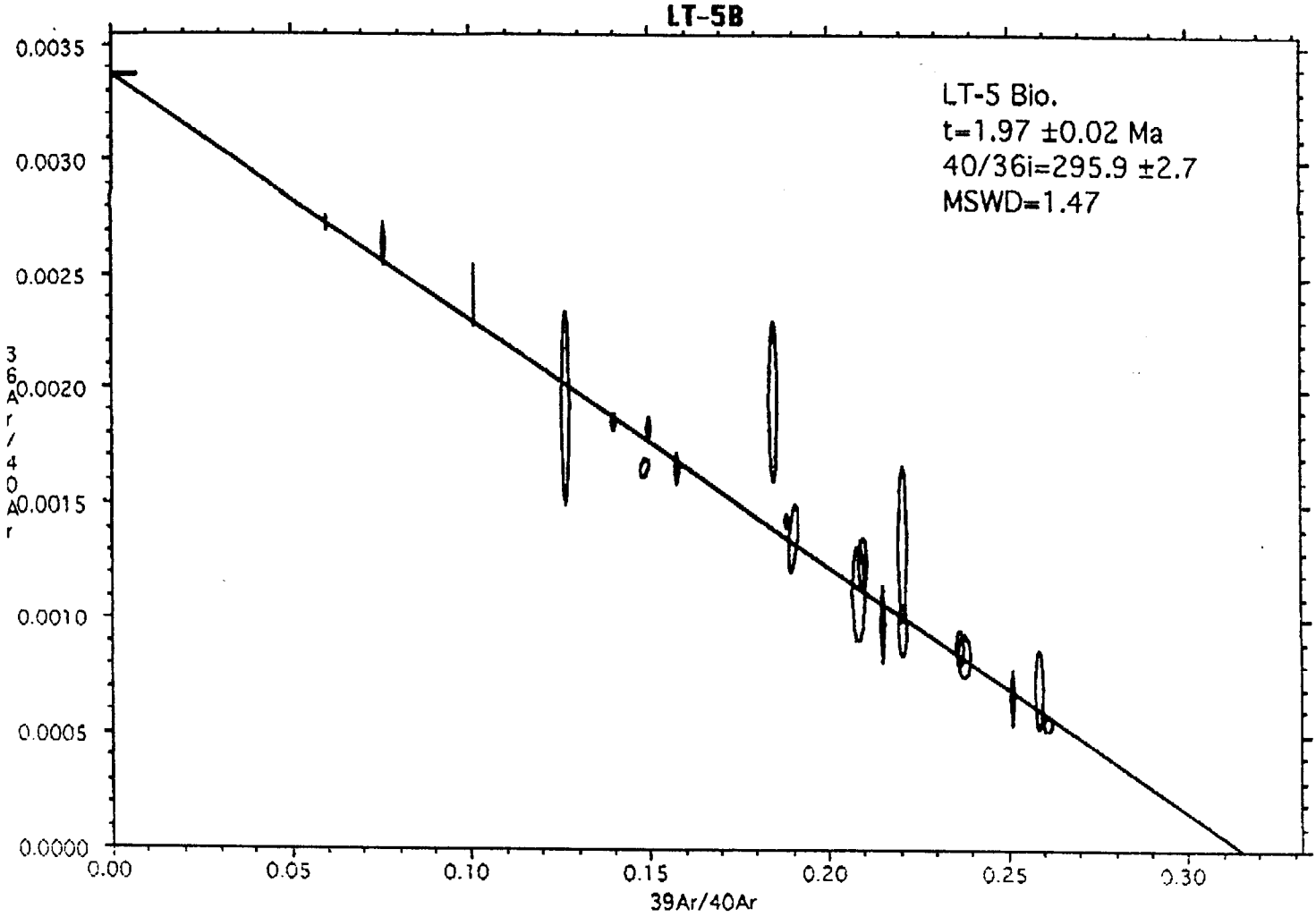
L#	Laser (W)	40Ar (Moles)	40/39	37/39	36/39	40*/39	% Rad.	Age (Ma)	±σ (Ma)
LT-1 Plagioclase (Tuff #1)									
5591-01A	5	3.25E-15	95.235	5.246	0.309	4.413	4.6	2.75	1.87
5591-01B	8	2.16E-15	9.982	8.084	0.021	4.388	43.7	2.74	0.23
5591-02	8	6.00E-15	63.957	11.006	0.208	3.362	5.2	2.10	0.75
5591-03	8	2.56E-15	30.176	14.387	0.091	4.463	14.6	2.78	0.80
5591-04	8	4.74E-15	45.007	19.381	0.142	4.625	10.1	2.88	0.64
5591-05	8	4.42E-15	36.579	14.337	0.108	5.719	15.5	3.57	0.37
5591-06	8	2.60E-15	84.573	6.100	0.281	1.883	2.2	1.17	3.71
5591-07A	3	4.45E-14	241.514	2.927	0.781	10.896	4.5	6.79	2.28
5591-07B	8	2.59E-14	54.704	11.703	0.170	5.418	9.8	3.38	0.25
5591-08A	3	2.41E-14	200.504	3.725	0.674	1.597	0.8	1.00	2.69
5591-08B	8	7.82E-15	20.503	12.828	0.059	4.212	20.4	2.63	0.23
5591-09A	3	4.23E-14	247.563	3.848	0.828	3.131	1.3	1.95	2.15
5591-09B	8	1.09E-14	38.067	13.782	0.113	5.859	15.2	3.65	0.24
5591-10A	3	2.59E-14	175.062	4.261	0.565	8.347	4.8	5.20	2.24
5591-10B	8	8.94E-15	22.991	12.280	0.067	4.169	18.0	2.60	0.15
5591-11A	3	6.98E-14	286.530	3.709	0.963	2.151	0.7	1.34	2.80
5591-11B	8	9.11E-15	26.337	11.759	0.075	5.063	19.1	3.16	0.23
5591-12A	3	3.99E-14	183.948	6.027	0.618	1.822	1.0	1.14	2.81
5591-12B	8	8.68E-15	21.972	14.877	0.064	4.219	19.0	2.63	0.34
5591-13A	3	2.94E-14	216.565	2.781	0.686	14.161	6.5	8.82	3.57
5591-13B	8	3.08E-14	96.914	11.925	0.312	5.593	5.7	3.49	0.43
LT-2 Plagioclase (Tuff #1)									
5587-01	8	3.29E-15	15.813	7.657	0.041	4.246	26.7	2.65	0.29
5587-02	8	2.70E-15	7.854	8.138	0.010	5.688	72.0	3.55	1.40
5587-03	8	1.36E-15	11.520	17.788	0.029	4.306	36.9	2.68	0.50
5587-04	8	9.12E-16	35.853	3.698	0.070	15.378	42.8	9.57	0.64
5587-05	8	4.79E-16	6.384	16.522	0.013	3.927	60.8	2.45	0.85
5587-06	8	7.05E-16	10.667	12.367	0.030	2.822	26.2	1.76	1.35
5587-07A	3	1.51E-14	114.642	8.194	0.381	2.700	2.3	1.68	0.64
5587-07B	8	1.33E-15	4.859	11.947	0.005	4.254	86.8	2.65	0.12
5587-08A	3	6.67E-15	55.905	9.811	0.174	5.318	9.4	3.32	0.64
5587-08B	8	1.21E-15	5.214	14.215	0.007	4.210	80.0	2.63	0.20
5587-09A	3	4.87E-15	45.104	8.762	0.137	5.171	11.4	3.22	0.32
5587-09B	8	1.42E-15	7.138	10.795	0.013	4.297	59.8	2.68	0.13
5587-10A	3	1.60E-14	87.853	9.253	0.282	5.171	5.8	3.22	0.71
5587-10B	8	3.05E-15	7.130	11.846	0.014	4.016	55.9	2.50	0.39
5587-11A	3	8.30E-15	37.867	11.572	0.112	5.733	15.0	3.57	0.25
5587-11B	8	2.04E-14	45.769	16.290	0.144	4.471	9.7	2.79	0.14
5587-12A	3	1.24E-14	107.818	8.973	0.349	5.474	5.0	3.41	1.14
5587-12B	8	1.29E-15	5.040	13.913	0.006	4.237	83.3	2.64	0.06
5587-13A	3	4.16E-15	34.537	10.231	0.110	2.897	8.3	1.81	0.54
5587-13B	8	1.34E-15	4.975	14.484	0.006	4.211	83.8	2.63	0.17

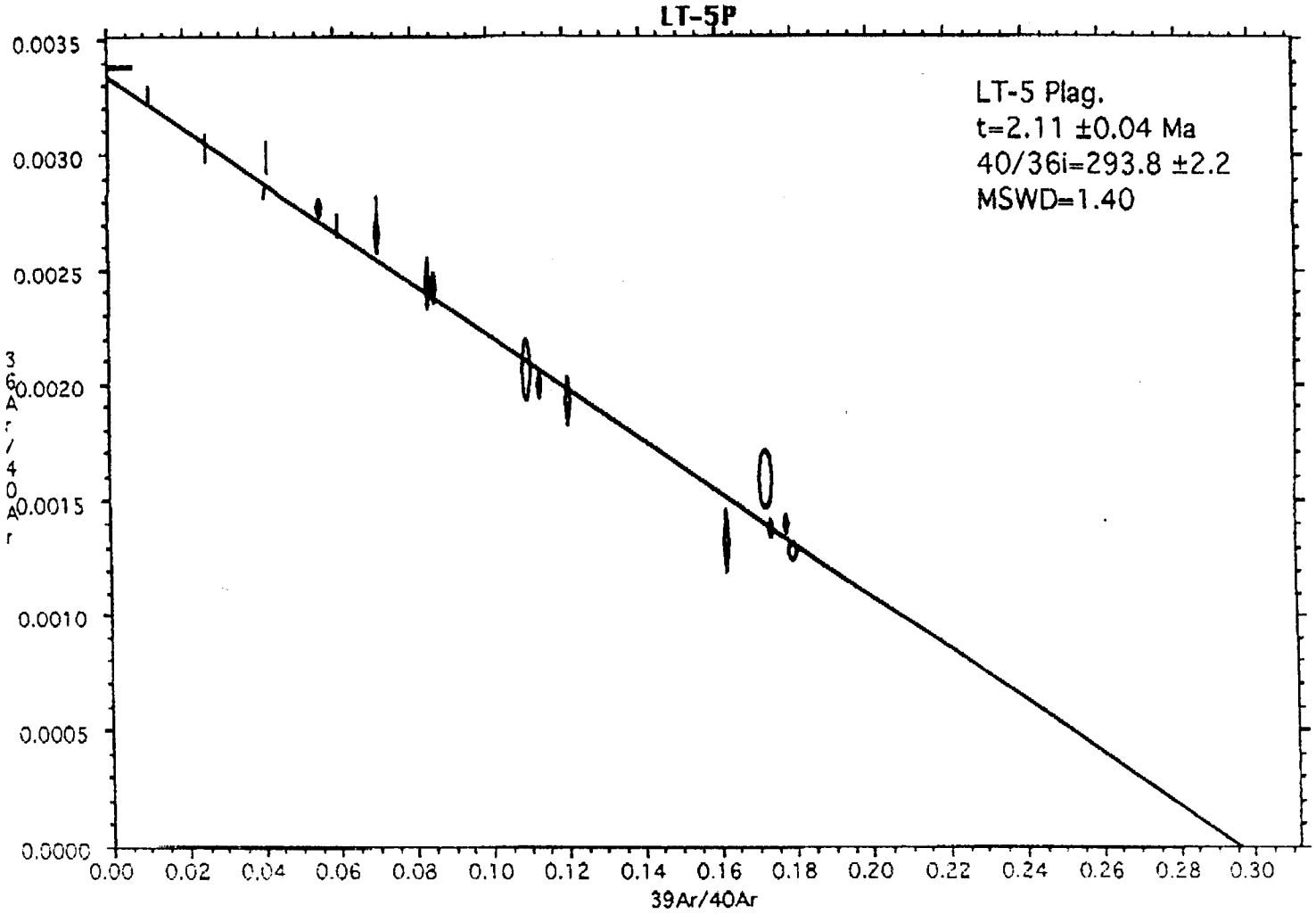
Ar/Ar Analytical Data

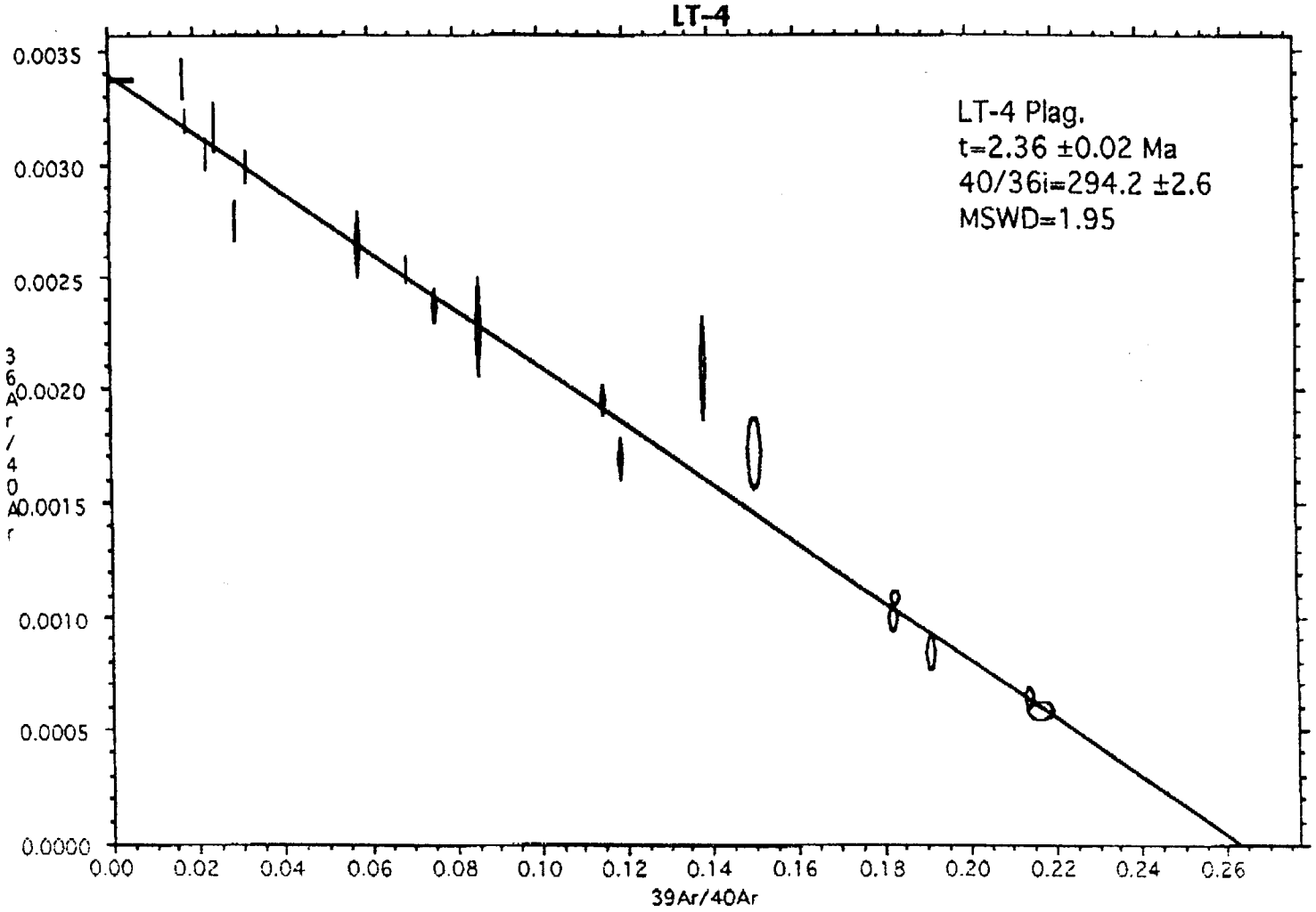
L#	Laser (W)	40Ar (Moles)	40/39	37/39	36/39	40*/39	% Rad.	Age (Ma)	±σ (Ma)
LT-3 Plagioclase (Tuff #2)									
5589-01	8	1.97E-15	17.744	11.201	0.048	4.300	24.1	2.68	0.32
5589-02	8	9.68E-16	6.953	10.053	0.014	3.721	53.2	2.32	0.44
5589-03	8	5.53E-16	7.009	8.945	0.017	2.605	36.9	1.62	0.52
5589-04	8	5.33E-16	5.009	11.020	0.006	4.017	79.6	2.50	0.32
5589-05	8	8.63E-16	6.178	11.310	0.014	3.066	49.3	1.91	0.46
5589-06	8	1.38E-15	7.176	11.350	0.012	4.606	63.7	2.87	0.50
5589-07A	3	2.31E-15	10.283	4.547	0.022	4.214	40.9	2.63	0.19
5589-07B	8	1.13E-15	5.952	12.999	0.010	4.009	66.8	2.50	0.22
5589-08A	3	1.94E-15	9.616	4.250	0.020	4.010	41.6	2.50	0.55
5589-08B	8	1.19E-15	5.624	15.451	0.012	3.376	59.4	2.11	0.24
5589-09A	3	2.33E-15	8.498	3.720	0.016	4.111	48.2	2.56	0.14
5589-09B	8	8.65E-16	5.612	11.224	0.008	4.083	72.2	2.55	0.14
5589-10A	3	3.75E-15	8.865	2.595	0.017	4.090	46.1	2.55	0.30
5589-10B	8	1.13E-15	7.877	13.760	0.016	4.181	52.6	2.61	0.12
5589-11A	3	1.33E-15	8.887	4.726	0.024	2.080	23.3	1.30	0.54
5589-11B	8	8.34E-16	6.025	14.206	0.011	3.811	62.6	2.38	0.14
5589-12A	3	2.15E-15	11.838	4.813	0.034	2.205	18.6	1.38	0.76
5589-12B	8	9.03E-16	6.135	13.459	0.011	3.924	63.4	2.45	0.30
5589-13A	3	2.92E-15	7.180	2.108	0.016	2.624	36.5	1.64	0.17
5589-13B	8	1.35E-15	5.362	11.059	0.007	4.183	77.4	2.61	0.31
LT-4 Plagioclase (Tuff #3)									
5593-01	8	1.23E-15	8.331	13.617	0.018	4.202	50.0	2.62	0.21
5593-02	8	4.34E-15	56.129	14.934	0.183	3.270	5.8	2.04	0.52
5593-03	8	1.04E-15	13.046	18.699	0.036	3.926	29.7	2.45	0.25
5593-04	8	4.75E-16	6.610	13.809	0.015	3.281	49.2	2.05	0.33
5593-05	8	2.17E-15	17.175	11.099	0.049	3.713	21.5	2.32	0.50
5593-06	8	1.15E-15	11.454	23.661	0.032	3.784	32.5	2.36	0.70
5593-07A	3	7.76E-15	34.410	9.641	0.097	6.495	18.8	4.05	0.59
5593-07B	8	1.96E-15	5.650	16.230	0.008	4.455	78.0	2.78	0.19
5593-08A	3	6.80E-15	44.061	4.933	0.136	4.394	9.9	2.74	0.59
5593-08B	8	6.64E-15	14.335	12.791	0.040	3.599	24.9	2.24	0.18
5593-09A	3	1.01E-14	57.824	7.357	0.197	0.130	0.2	0.08	0.94
5593-09B	8	1.48E-15	4.579	12.200	0.006	3.821	82.8	2.38	0.17
5593-10A	3	7.01E-15	31.556	13.652	0.098	3.685	11.6	2.30	0.44
5593-10B	8	5.21E-16	5.182	16.131	0.009	3.933	75.1	2.45	0.30
5593-11A	3	2.22E-15	8.628	11.026	0.020	3.681	42.4	2.30	0.15
5593-11B	8	1.16E-15	5.415	17.932	0.011	3.702	67.5	2.31	0.10
5593-12A	3	7.11E-15	40.626	6.939	0.130	2.628	6.4	1.64	0.81
5593-12B	8	1.77E-15	5.446	11.381	0.008	3.866	70.5	2.41	0.13
5593-13A	3	1.45E-15	7.205	7.573	0.017	2.753	38.0	1.72	0.39
5593-13B	8	1.27E-15	4.639	13.506	0.006	3.792	81.0	2.36	0.20

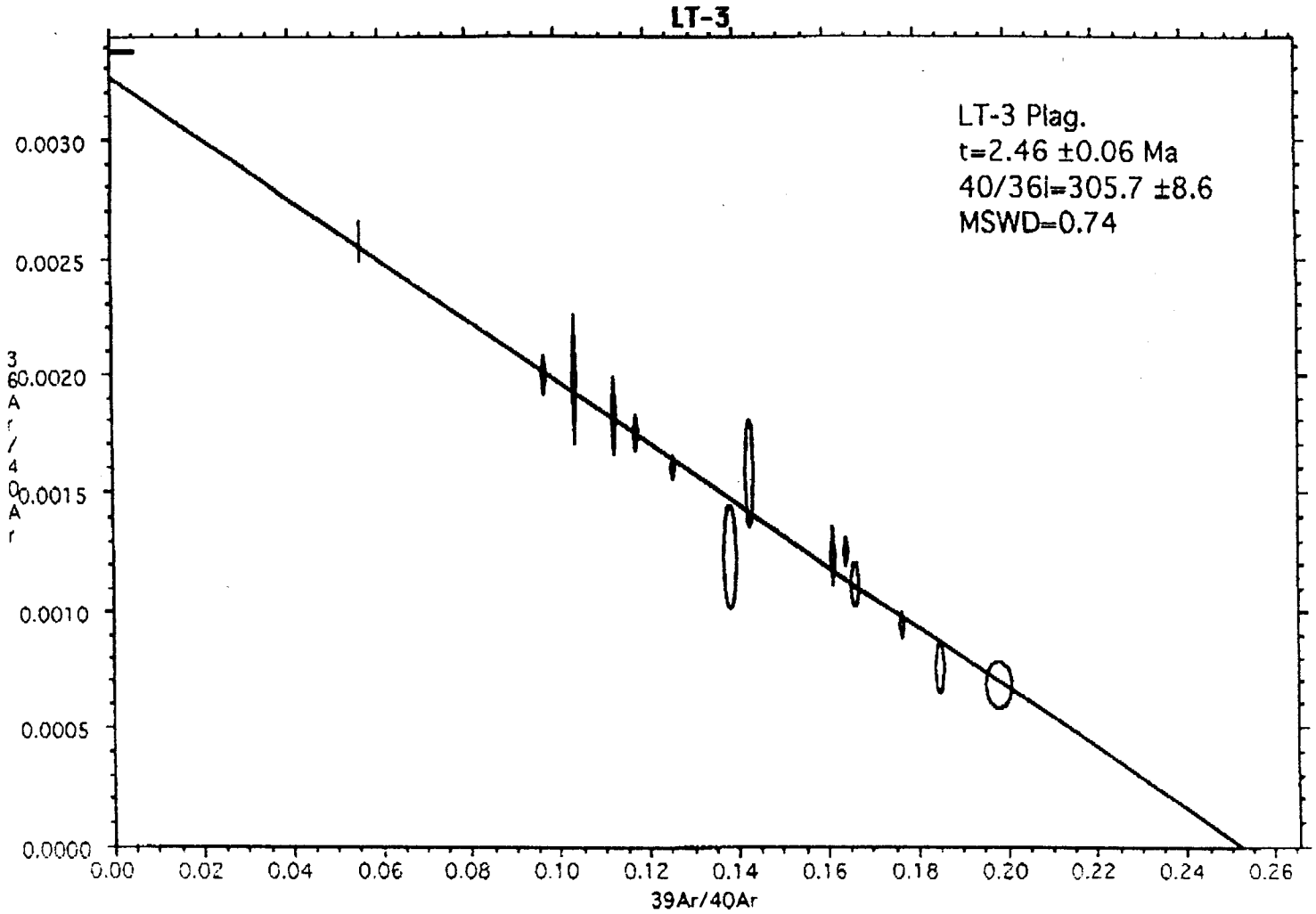
Ar/Ar Analytical Data

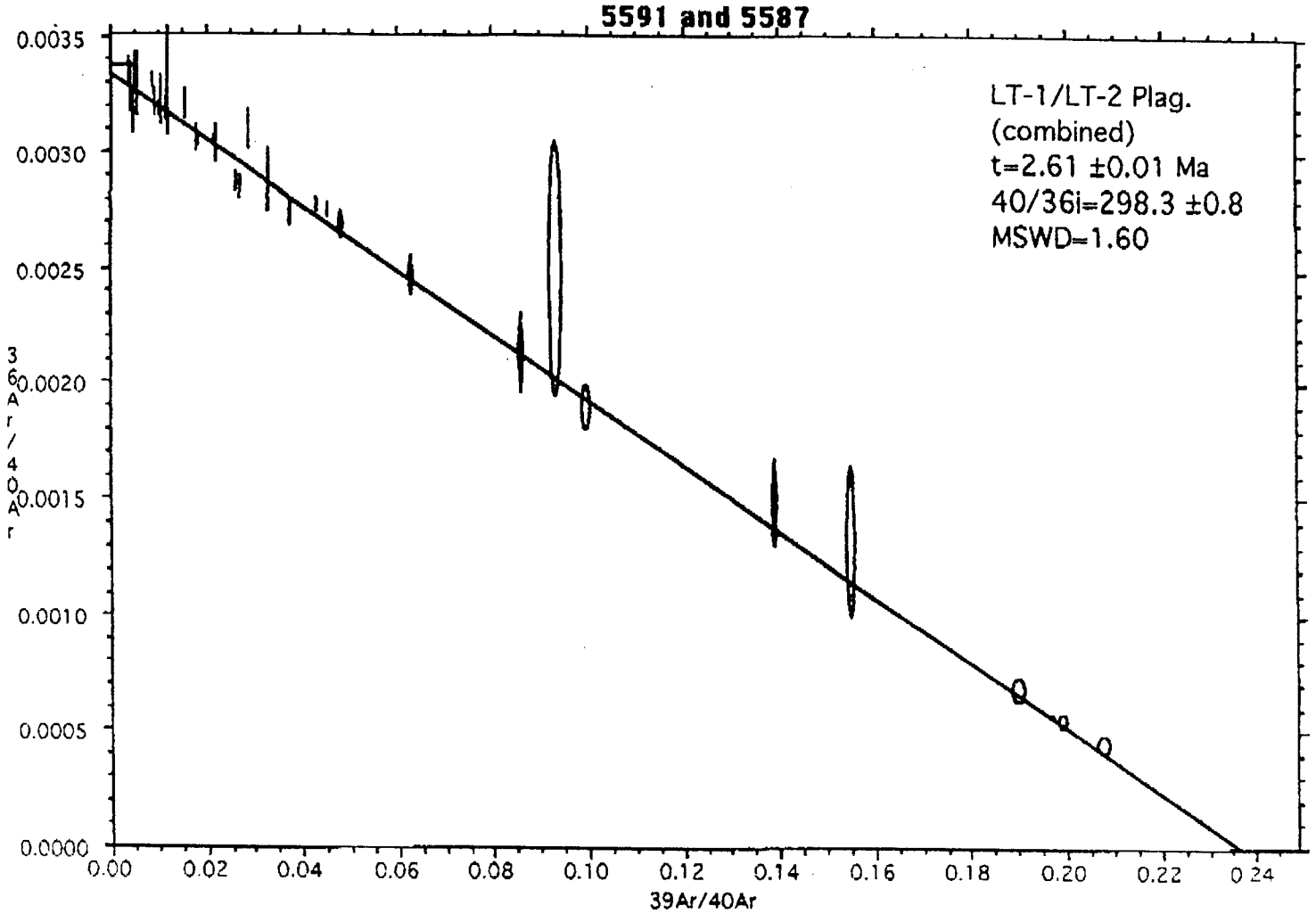
L#	Laser (W)	40Ar (Moles)	40/39	37/39	36/39	40*/39	% Rad.	Age (Ma)	±σ (Ma)
LT-5 Plagioclase (Tuff #4)									
5594-01	8	4.82E-16	5.752	13.291	0.013	3.070	52.9	1.91	0.24
5594-02	8	1.38E-15	9.030	10.983	0.021	3.552	39.0	2.22	0.30
5594-03	8	2.94E-15	14.088	7.812	0.041	2.711	19.1	1.69	0.24
5594-04	8	1.21E-15	11.551	18.365	0.033	3.335	28.5	2.08	0.19
5594-05	8	4.39E-16	10.325	12.434	0.034	1.373	13.2	0.86	0.58
5594-06	8	4.09E-16	6.893	19.276	0.022	1.746	25.0	1.09	0.44
5594-07A	3	7.83E-15	23.723	10.028	0.073	2.798	11.7	1.75	0.31
5594-07B	8	1.48E-15	6.105	16.469	0.012	3.761	60.9	2.35	0.35
5594-08A	3	1.34E-14	89.416	12.356	0.294	3.502	3.9	2.18	0.67
5594-08B	8	1.66E-15	8.726	17.247	0.022	3.630	41.1	2.26	0.14
5594-09A	3	1.03E-14	38.256	9.504	0.118	4.089	10.6	2.55	0.38
5594-09B	8	2.26E-15	8.204	14.003	0.019	3.566	43.1	2.22	0.23
5594-10A	3	4.34E-15	17.860	10.735	0.052	3.271	18.2	2.04	0.16
5594-10B	8	1.91E-15	11.795	17.532	0.033	3.315	27.8	2.07	0.34
5594-11A	3	6.95E-15	25.767	11.326	0.083	2.168	8.4	1.35	0.34
5594-11B	8	1.62E-15	5.705	16.607	0.012	3.406	59.0	2.12	0.09
5594-12A	3	2.73E-15	14.007	10.411	0.040	3.022	21.4	1.88	0.25
5594-12B	8	9.31E-16	5.583	15.499	0.012	3.312	58.7	2.07	0.10
5594-13A	3	5.15E-15	16.506	10.419	0.047	3.370	20.3	2.10	0.15
5594-13B	8	1.08E-15	5.530	15.085	0.011	3.466	62.0	2.16	0.10
LT-5 Biotite (Tuff #4)									
5595-01	3	2.65E-15	4.533	0.050	0.004	3.250	71.7	2.03	0.10
5595-01B	5	8.16E-15	3.827	0.019	0.002	3.207	83.8	2.00	0.02
5595-02	3	2.57E-15	7.890	0.024	0.015	3.413	43.3	2.13	0.61
5595-02B	5	2.64E-15	4.795	0.062	0.005	3.210	66.9	2.00	0.18
5595-03	3	5.31E-15	6.348	0.016	0.011	3.243	51.1	2.02	0.08
5595-03B	5	6.64E-15	6.666	0.020	0.012	3.069	46.0	1.91	0.06
5595-04	3	2.86E-15	13.236	0.016	0.035	2.914	22.0	1.82	0.23
5595-04B	5	6.69E-15	4.772	0.009	0.006	3.004	63.0	1.87	0.09
5595-05	3	2.82E-15	4.532	0.031	0.006	2.753	60.7	1.72	0.28
5595-05B	5	3.57E-15	3.868	0.021	0.003	3.065	79.2	1.91	0.13
5595-06	3	2.01E-15	5.419	0.087	0.011	2.294	42.3	1.43	0.35
5595-06B	5	5.31E-15	3.984	0.017	0.003	3.207	80.5	2.00	0.09
5595-07	6	8.59E-15	5.306	0.014	0.008	3.052	57.5	1.90	0.03
5595-08	6	1.08E-14	6.732	0.017	0.011	3.447	51.2	2.15	0.05
5595-09	6	3.16E-15	4.647	0.011	0.005	3.295	70.9	2.05	0.14
5595-10	6	8.03E-15	4.223	0.037	0.004	3.120	73.9	1.95	0.06
5595-11	6	7.56E-15	7.143	0.019	0.013	3.232	45.2	2.02	0.05
5595-12	6	6.15E-15	9.908	0.014	0.024	2.861	28.9	1.78	0.24
5595-13	6	4.94E-14	16.636	0.043	0.045	3.195	19.2	1.99	0.07
5595-14	6	4.07E-15	5.256	0.017	0.007	3.147	59.9	1.96	0.14
5595-15	6	5.94E-15	4.207	0.012	0.004	3.157	75.0	1.97	0.07


LT-5B
LT-5 Bio.
t=1.97 ±0.02 Ma
40/36i=295.9 ±2.7
MSWD=1.47
36Ar/40Ar
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.05
0.10
0.15
0.20
0.25
0.30
39Ar/40Ar


LT-5P
LT-5 Plag.
t=2.11 ±0.04 Ma
40/36i=293.8 ±2.2
MSWD=1.40
36Ar/40Ar
39Ar/40Ar
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
0.22
0.24
0.26
0.28
0.30


LT-4
LT-4 Plag.
t=2.36 ±0.02 Ma
40/36i=294.2 ±2.6
MSWD=1.95
36Ar/40Ar
39Ar/40Ar
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
0.22
0.24
0.26


LT-3
LT-3 Plag.
t=2.46 ±0.06 Ma
40/36I=305.7 ±8.6
MSWD=0.74
36Ar/40Ar
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
0.22
0.24
0.26
39Ar/40Ar


5591 and 5587
LT-1/LT-2 Plag.
(combined)
t=2.61 ±0.01 Ma
40/36i=298.3 ±0.8
MSWD=1.60
36Ar/40Ar
39Ar/40Ar
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
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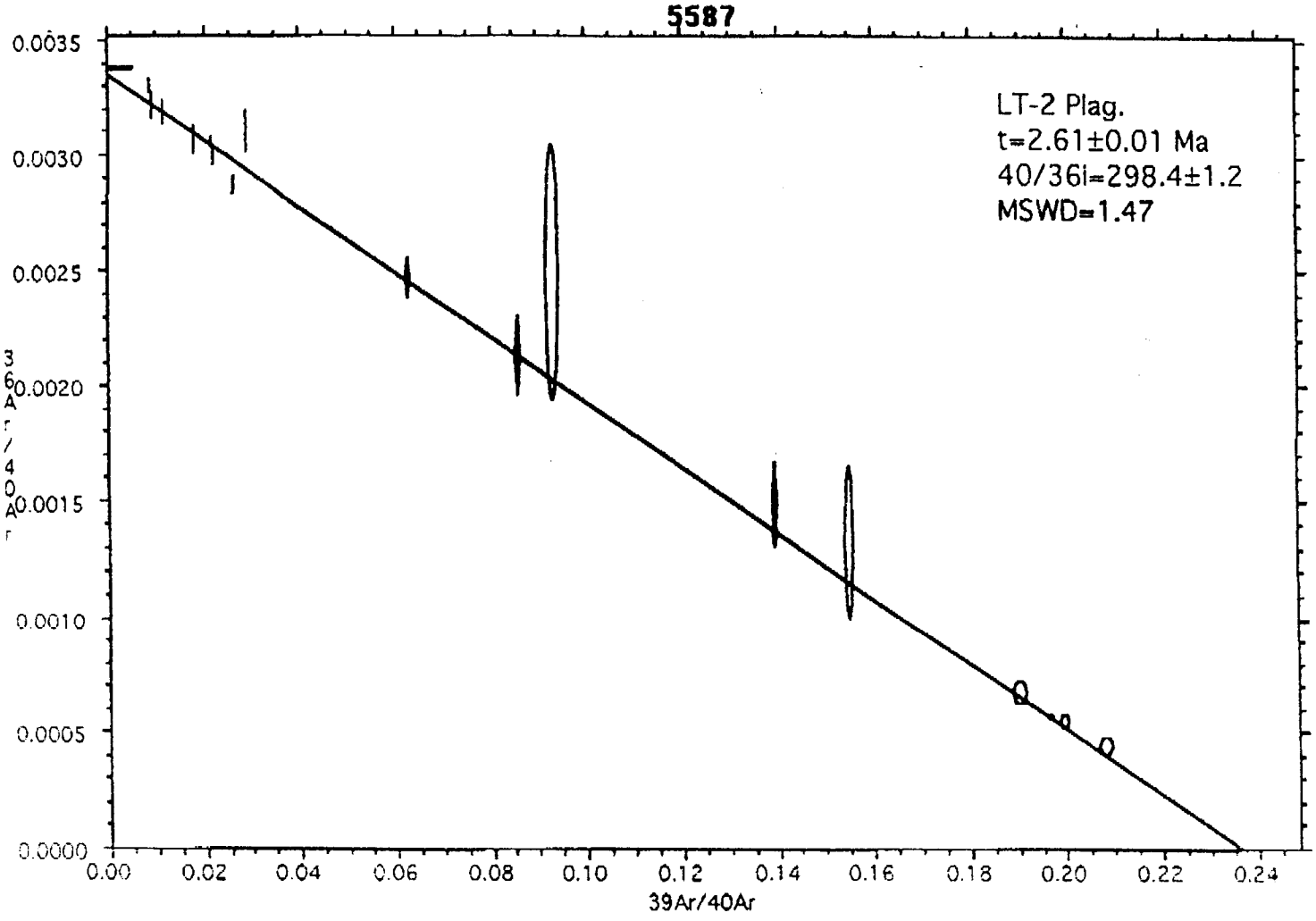
0.22
0.24


5587
LT-2 Plag.
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40/36i=298.4±1.2
MSWD=1.47
36Ar/40Ar
39Ar/40Ar
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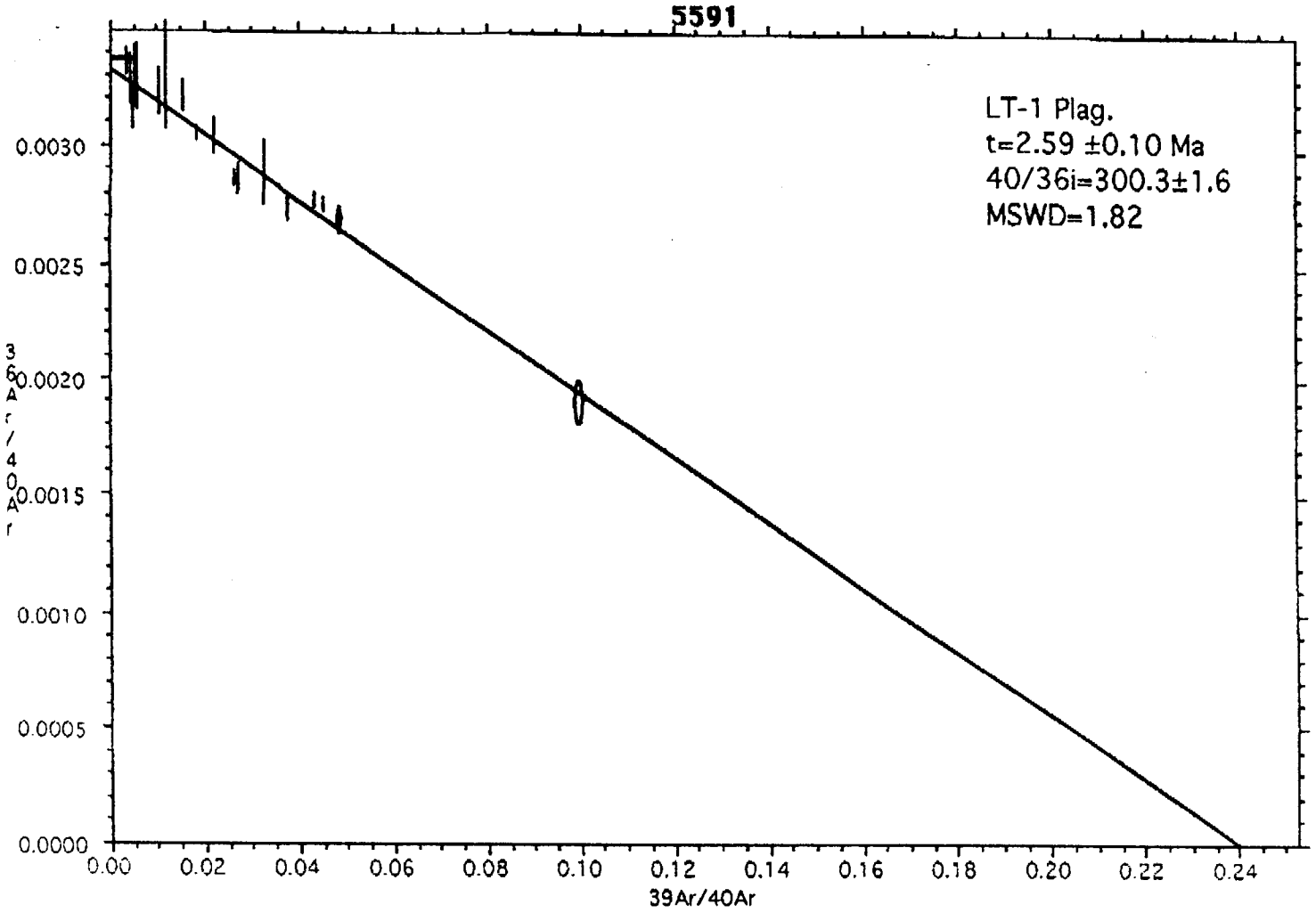
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
0.22
0.24


5591
LT-1 Plag.
t=2.59 ±0.10 Ma
40/36i=300.3±1.6
MSWD=1.82
36Ar/40Ar
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0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
0.00
0.02
0.04
0.06
0.08
0.10
0.12
0.14
0.16
0.18
0.20
0.22
0.24
39Ar/40Ar