

No	$\Delta$ Frequency ( Hz )	Temp. ( °C )	P406 ( dBm )	P121.5 ( dBm )
1	49922,42	-20,9	36,8	18,8
2	49922,40	-20,9	36,7	18,3
3	49922,72	-20,9	36,7	18,3
4	49923,27	-20,8	36,8	18,8
5	49922,89	-21,0	36,8	18,6
6	49923,59	-20,9	36,7	18,8
7	49923,31	-21,0	36,8	18,8
8	49923,46	-20,9	36,8	18,8
9	49923,13	-20,9	36,8	18,8
10	49923,48	-20,9	36,8	18,8
11	49923,80	-21,0	36,8	18,8
12	49923,18	-21,0	36,8	18,8
13	49923,59	-21,0	36,8	18,8
14	49923,39	-20,9	36,8	18,8
15	49923,75	-20,9	36,8	18,8
16	49923,21	-20,8	36,8	18,8
17	49923,83	-20,8	36,8	18,8
18	49923,68	-20,9	36,7	18,8

No	Temp.	Slope	Sigma	P406	Short term	P121.5
1	-20,8	1,6E-10	6,5E-10	36,7	2,7E-10	18,7
18	-20,8	1,1E-10	3,8E-10	36,7	4,0E-10	18,7
31	-20,6	1,3E-10	4,0E-10	36,7	3,1E-10	18,8
61	-20,4	1,4E-11	6,2E-10	36,7	3,4E-10	18,8
91	-20,5	8,6E-11	5,6E-10	36,7	2,0E-10	18,8
121	-21,0	8,3E-11	7,0E-10	36,7	3,2E-10	18,8
151	-21,3	3,5E-11	4,2E-10	36,7	2,8E-10	18,8
181	-21,6	7,0E-12	4,5E-10	36,7	2,7E-10	18,7
211	-21,7	7,8E-11	5,7E-10	36,8	2,7E-10	18,8
241	-21,7	5,6E-11	5,4E-10	36,7	2,1E-10	18,8
271	-21,7	8,8E-11	6,3E-10	36,7	2,5E-10	18,8
301	-21,7	9,0E-12	4,3E-10	36,7	1,4E-10	18,9
331	-21,9	-3,2E-11	4,7E-10	36,8	1,3E-10	18,8
361	-21,8	3,4E-11	3,4E-10	36,8	2,4E-10	18,8
391	-21,7	-3,3E-11	4,5E-10	36,7	2,4E-10	18,8
421	-21,6	5,5E-11	5,2E-10	36,8	2,5E-10	18,8
451	-21,6	-6,7E-11	4,9E-10	36,8	2,3E-10	18,8
481	-21,6	-1,3E-11	3,1E-10	36,8	4,4E-10	18,8
511	-21,6	-9,3E-11	5,7E-10	36,8	2,5E-10	18,9
541	-21,6	-1,8E-11	4,3E-10	36,8	2,3E-10	18,8
571	-21,6	-2,5E-12	4,8E-10	36,8	3,1E-10	18,9
601	-21,4	-2,3E-11	6,8E-10	36,8	3,0E-10	18,8
631	-21,3	-2,8E-11	4,6E-10	36,8	2,6E-10	18,8
661	-21,3	-7,2E-11	4,8E-10	36,8	3,2E-10	18,8
691	-21,2	-6,7E-11	3,6E-10	36,8	2,8E-10	18,8
721	-21,2	3,9E-11	3,3E-10	36,8	3,7E-10	18,7
751	-21,0	7,4E-11	5,9E-10	36,8	3,1E-10	18,8
781	-20,9	-1,7E-11	5,8E-10	36,8	2,5E-10	18,8
811	-21,0	6,6E-11	6,7E-10	36,8	2,3E-10	18,5
841	-20,9	-2,7E-11	4,5E-10	36,8	2,1E-10	18,9

No	Temp.	Slope	Sigma	P406	Short term	P121.5
871	-20,8	1,1E-11	3,2E-10	36,8	2,0E-10	18,8
901	-20,7	4,0E-11	5,9E-10	36,8	2,4E-10	18,8
931	-20,7	3,0E-11	5,1E-10	36,8	3,7E-10	18,8
961	-20,6	-5,7E-11	4,4E-10	36,8	3,9E-10	18,9
991	-20,5	-7,8E-12	6,2E-10	36,8	4,0E-10	18,8
1021	-20,5	2,3E-11	5,5E-10	36,8	4,1E-10	18,7
1051	-20,5	1,5E-11	4,8E-10	36,8	2,7E-10	18,8
1081	-20,3	5,9E-12	5,0E-10	36,8	3,0E-10	18,8
1111	-20,4	3,1E-11	4,3E-10	36,8	3,6E-10	18,8
1141	-20,3	-1,2E-11	4,1E-10	36,8	2,9E-10	18,8
1171	-20,3	-1,6E-11	4,7E-10	36,8	3,4E-10	18,4
1201	-20,4	-3,4E-11	7,2E-10	36,8	3,1E-10	18,8
1231	-20,3	1,3E-10	5,6E-10	36,8	2,1E-10	18,4
1261	-20,2	3,7E-11	4,5E-10	36,8	2,0E-10	18,8
1291	-20,3	1,1E-11	4,7E-10	36,8	3,0E-10	18,9
1321	-20,5	2,1E-11	3,4E-10	36,8	2,5E-10	18,7
1351	-20,7	-2,4E-11	3,5E-10	36,8	2,9E-10	18,9
1381	-20,9	6,5E-11	3,9E-10	36,8	3,1E-10	18,8
1411	-21,0	2,8E-11	5,8E-10	36,8	2,2E-10	18,8
1441	-21,2	-6,8E-11	5,1E-10	36,8	3,6E-10	18,8
1471	-21,3	2,4E-11	5,8E-10	36,8	2,2E-10	18,8
1501	-21,4	4,1E-11	4,4E-10	36,8	2,7E-10	18,9
1531	-21,4	3,6E-11	4,3E-10	36,8	2,0E-10	18,8
1561	-21,4	7,4E-11	6,4E-10	36,8	3,8E-10	18,6
1591	-21,6	4,8E-11	4,3E-10	36,8	2,4E-10	18,8
1621	-21,6	5,0E-11	5,1E-10	36,8	3,0E-10	18,8
1651	-21,5	-1,0E-11	3,5E-10	36,8	1,9E-10	18,8
1681	-21,5	1,7E-11	3,7E-10	36,8	3,3E-10	18,8
1711	-21,4	-5,7E-11	5,2E-10	36,8	2,0E-10	18,8
1741	-21,3	6,6E-11	4,5E-10	36,8	1,3E-10	18,9
1771	-21,2	1,8E-11	5,0E-10	36,8	2,5E-10	18,8
1801	-21,1	-4,7E-11	6,1E-10	36,8	2,6E-10	18,6
1831	-21,1	-3,1E-11	3,7E-10	36,8	2,4E-10	18,9
1861	-21,0	-8,4E-11	5,7E-10	36,8	2,0E-10	18,4
1891	-20,8	5,9E-11	5,3E-10	36,8	3,5E-10	18,8
1921	-20,8	-2,4E-12	4,3E-10	36,8	2,3E-10	18,8
1951	-20,6	-6,8E-12	5,5E-10	36,8	3,0E-10	18,8
1981	-20,6	-1,3E-11	4,9E-10	36,8	2,7E-10	18,8
2011	-20,5	1,2E-11	4,8E-10	36,8	3,2E-10	18,5
2041	-20,3	-1,8E-12	4,3E-10	36,8	3,3E-10	18,8
2071	-20,2	2,3E-11	6,2E-10	36,8	2,0E-10	18,8
2101	-20,2	-5,0E-11	4,1E-10	36,8	3,6E-10	18,8
2131	-19,9	-3,3E-11	4,3E-10	36,8	2,3E-10	18,8
2161	-19,8	-4,2E-11	7,6E-10	36,8	2,6E-10	18,7
2191	-19,8	-2,3E-11	4,5E-10	36,8	3,1E-10	18,6
2221	-19,8	3,2E-11	5,0E-10	36,8	2,4E-10	18,9
2251	-19,8	6,7E-12	4,0E-10	36,8	2,8E-10	18,8
2281	-19,8	-4,1E-11	6,3E-10	36,8	4,3E-10	18,8
2311	-19,8	-3,7E-11	5,6E-10	36,8	3,4E-10	18,8
2341	-19,8	-1,8E-11	5,5E-10	36,8	2,9E-10	18,7
2371	-19,9	-4,5E-11	4,2E-10	36,8	2,4E-10	18,8

24h

No	Temp.	Slope	Sigma	P406	Short term	P121.5
2401	-19,8	3,8E-11	5,0E-10	36,8	3,0E-10	18,4
2431	-19,8	1,0E-10	7,2E-10	36,8	2,6E-10	18,8
2461	-19,8	4,2E-11	4,6E-10	36,8	4,1E-10	18,6
2491	-19,6	-6,8E-11	6,0E-10	36,8	3,3E-10	18,6
2521	-19,7	9,5E-11	5,2E-10	36,8	1,8E-10	18,8
2551	-19,7	-4,5E-12	4,6E-10	36,8	2,8E-10	18,9
2581	-19,7	-2,3E-11	4,4E-10	36,8	2,8E-10	18,8
2611	-19,8	2,0E-11	3,9E-10	36,8	2,8E-10	18,2
2641	-19,7	-2,0E-11	3,7E-10	36,8	2,5E-10	18,9
2671	-19,5	-1,3E-11	4,1E-10	36,8	3,1E-10	18,8
2701	-19,7	-1,5E-11	3,4E-10	36,8	2,5E-10	18,8
2731	-19,6	6,0E-12	4,6E-10	36,8	2,7E-10	18,8
2761	-19,7	-3,5E-11	4,6E-10	36,8	3,7E-10	18,8
2791	-19,6	-2,9E-12	4,7E-10	36,8	3,9E-10	18,8
2821	-19,8	6,0E-11	5,9E-10	36,8	3,3E-10	18,8
2851	-19,7	-3,8E-11	4,4E-10	36,8	3,5E-10	18,8
2881	-19,7	1,8E-11	4,1E-10	36,8	3,9E-10	18,8
2911	-19,7	-2,7E-11	5,3E-10	36,8	1,6E-10	18,3
2941	-19,6	-3,9E-13	5,6E-10	36,8	2,7E-10	18,8
2971	-19,6	7,0E-11	4,0E-10	36,8	3,0E-10	18,8
3001	-19,6	8,0E-11	4,5E-10	36,8	3,3E-10	18,8
3031	-19,6	-1,7E-11	4,8E-10	36,8	2,9E-10	18,3
3061	-19,8	6,0E-11	3,6E-10	36,8	3,3E-10	18,4
3091	-19,9	-2,6E-11	3,9E-10	36,7	2,4E-10	18,8
3121	-20,0	-6,0E-12	5,2E-10	36,7	3,7E-10	18,9
3151	-20,3	-8,5E-11	7,0E-10	36,7	2,4E-10	18,6
3181	-20,5	-5,8E-11	4,4E-10	36,7	3,4E-10	18,8
3211	-20,6	4,6E-11	5,8E-10	36,7	2,6E-10	18,8
3241	-20,9	5,5E-11	4,1E-10	36,7	3,0E-10	18,8
3271	-20,9	1,3E-11	4,7E-10	36,7	3,1E-10	18,8
3301	-21,1	5,3E-11	4,8E-10	36,7	3,3E-10	18,9
3331	-21,1	-9,6E-11	4,4E-10	36,7	1,8E-10	18,8
3361	-21,2	3,4E-11	3,8E-10	36,7	2,8E-10	18,9
3391	-21,2	-5,4E-11	5,5E-10	36,6	2,6E-10	18,6
3421	-21,1	2,3E-12	5,9E-10	36,6	2,6E-10	18,8
3451	-21,1	1,3E-12	6,0E-10	36,6	2,5E-10	18,8
3481	-21,1	-6,3E-11	5,0E-10	36,4	3,4E-10	18,8
3511	-21,0	-2,2E-10	5,0E-10	36,4	2,5E-10	18,8
3541	-20,9	-4,0E-10	7,3E-10	36,2	5,7E-10	18,8
3571	-20,8	-4,3E-10	1,5E-09	35,7	1,2E-9	18,8
3601						
3631						
3661						

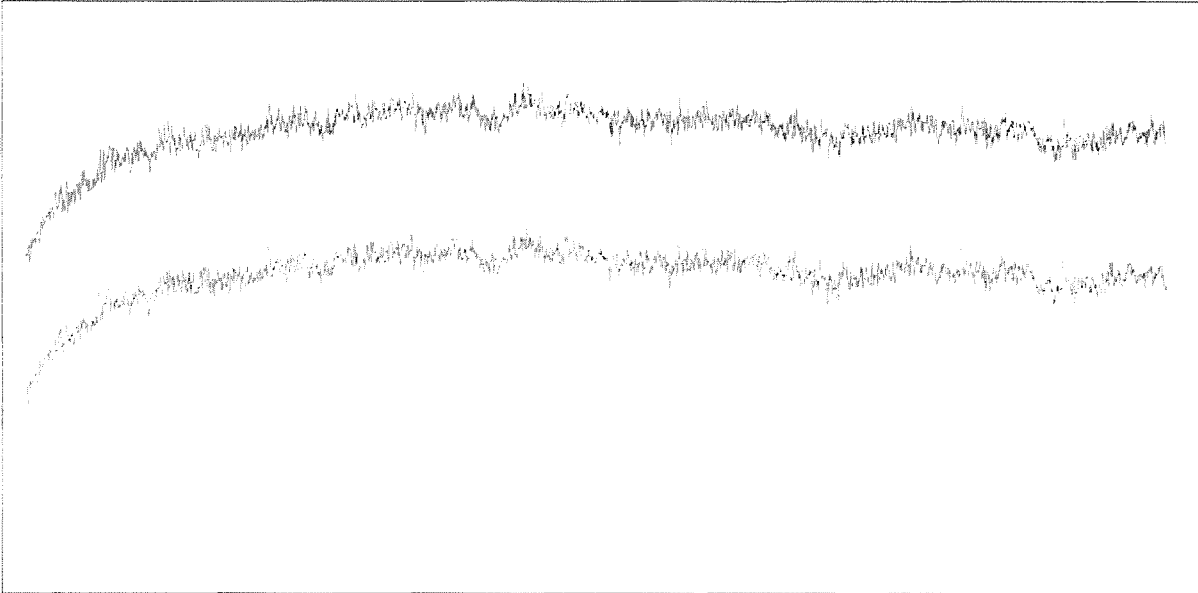
48h

Beacon message after 48 hours of Operating Lifetime Test :

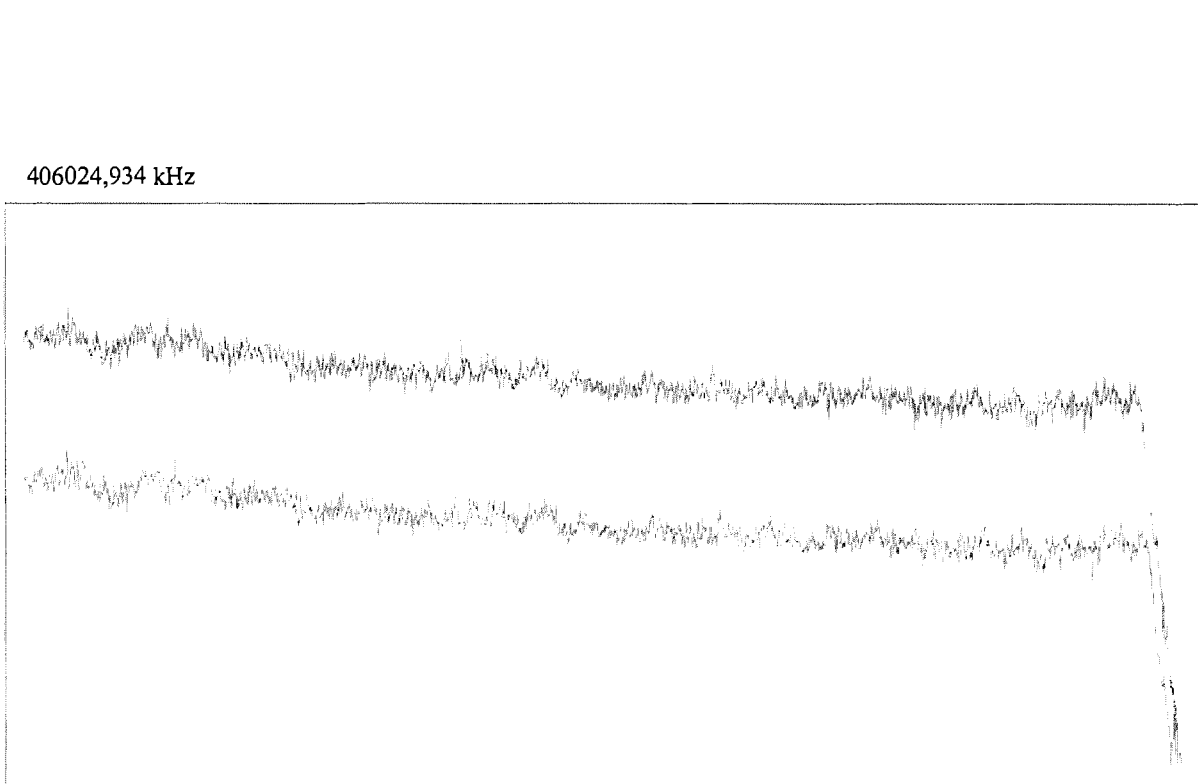
**FFFE2F5F7F03C48000009C00400**

### Frequency variation

406024,934 kHz



406024,919 kHz



406024,919 kHz

— Initial tracing      — Smoothed tracing

**LIFE TEST AT -20 °C**

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

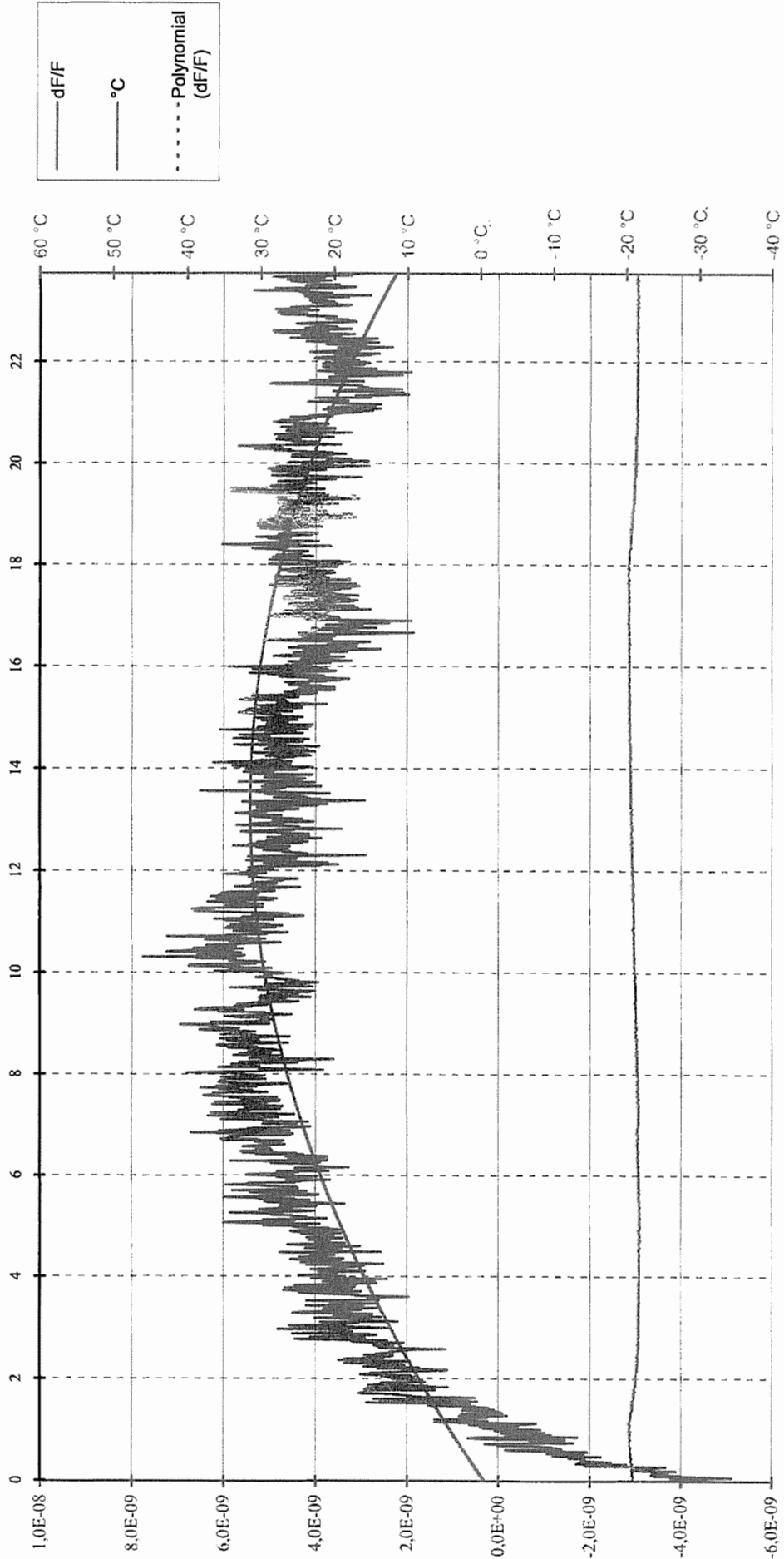
Model : MT400

Number : C204

Date : 16 Apr 2003

Time : 14:18:50

**FREQUENCY VARIATION**



**LIFE TEST AT -20 °C**

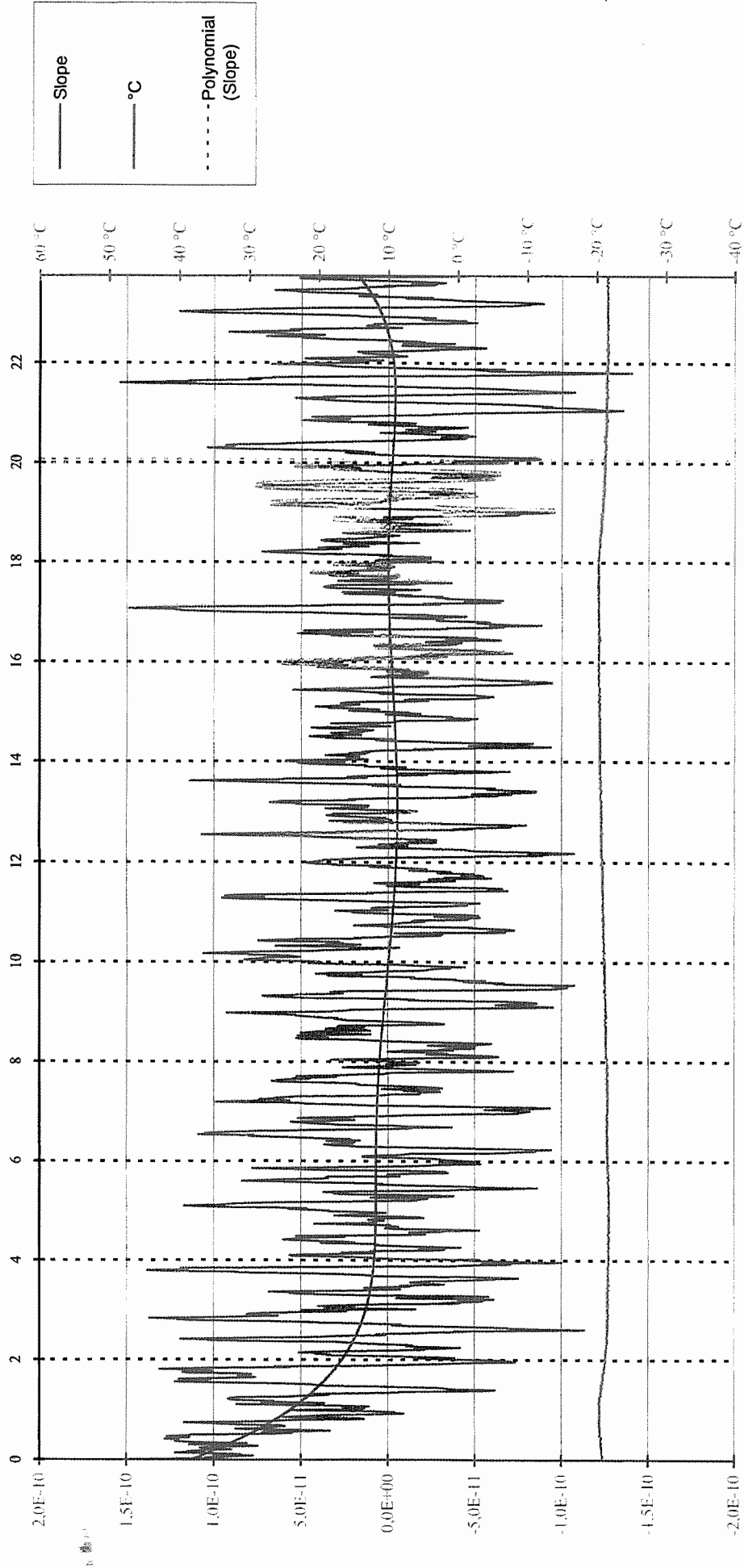
Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Number : C204

Date : 16 Apr 2003

Time : 14:18:50

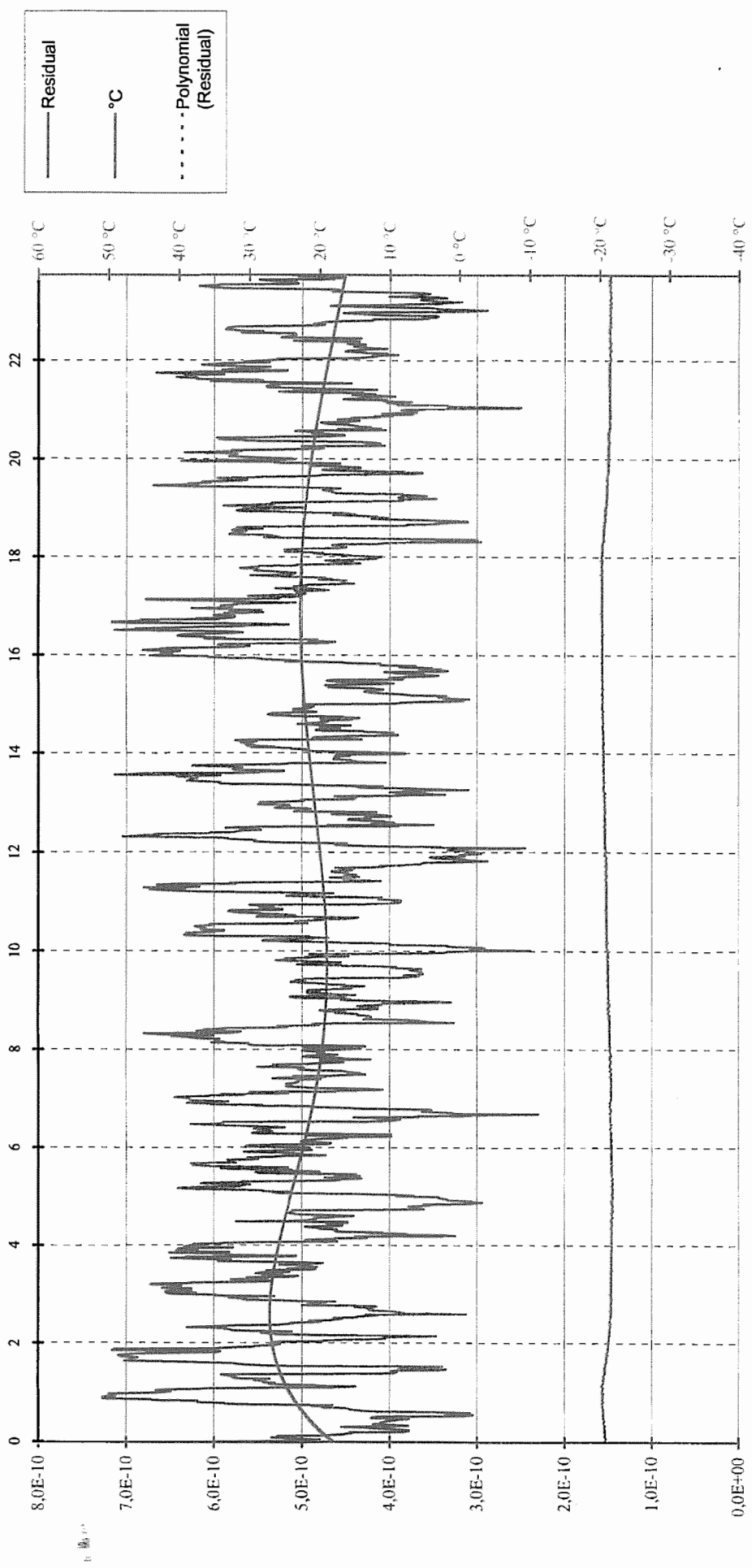
**MEDIUM TERM STABILITY : MEAN SLOPE /mn ( -1,0E-9 to 1,0E-9 )**


**LIFE TEST AT -20 °C**

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.  
 Model : MT400  
 Number : C204

Date : 16 Apr 2003  
 Time : 14:18:50

**MEDIUM TERM STABILITY : RESIDUAL ( ≤ 3,0E-9 )**



**LIFE TEST AT -20 °C**

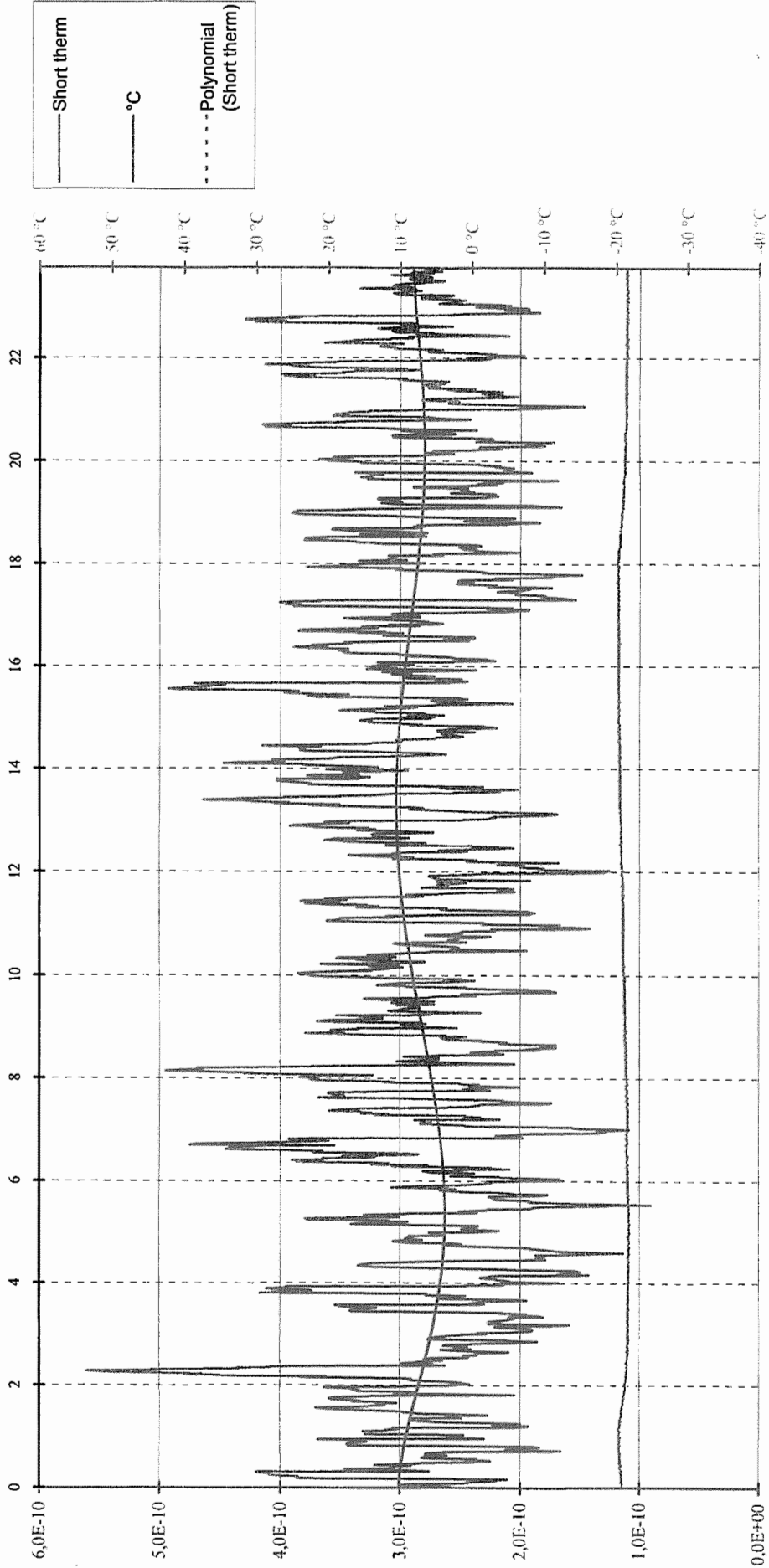
Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Number : C204

Date : 16 Apr 2003

Time : 14:18:50

**SHORT TERM STABILITY /100 mS ( ≤ 2,0E-9 )**




**LIFE TEST AT -20 °C**

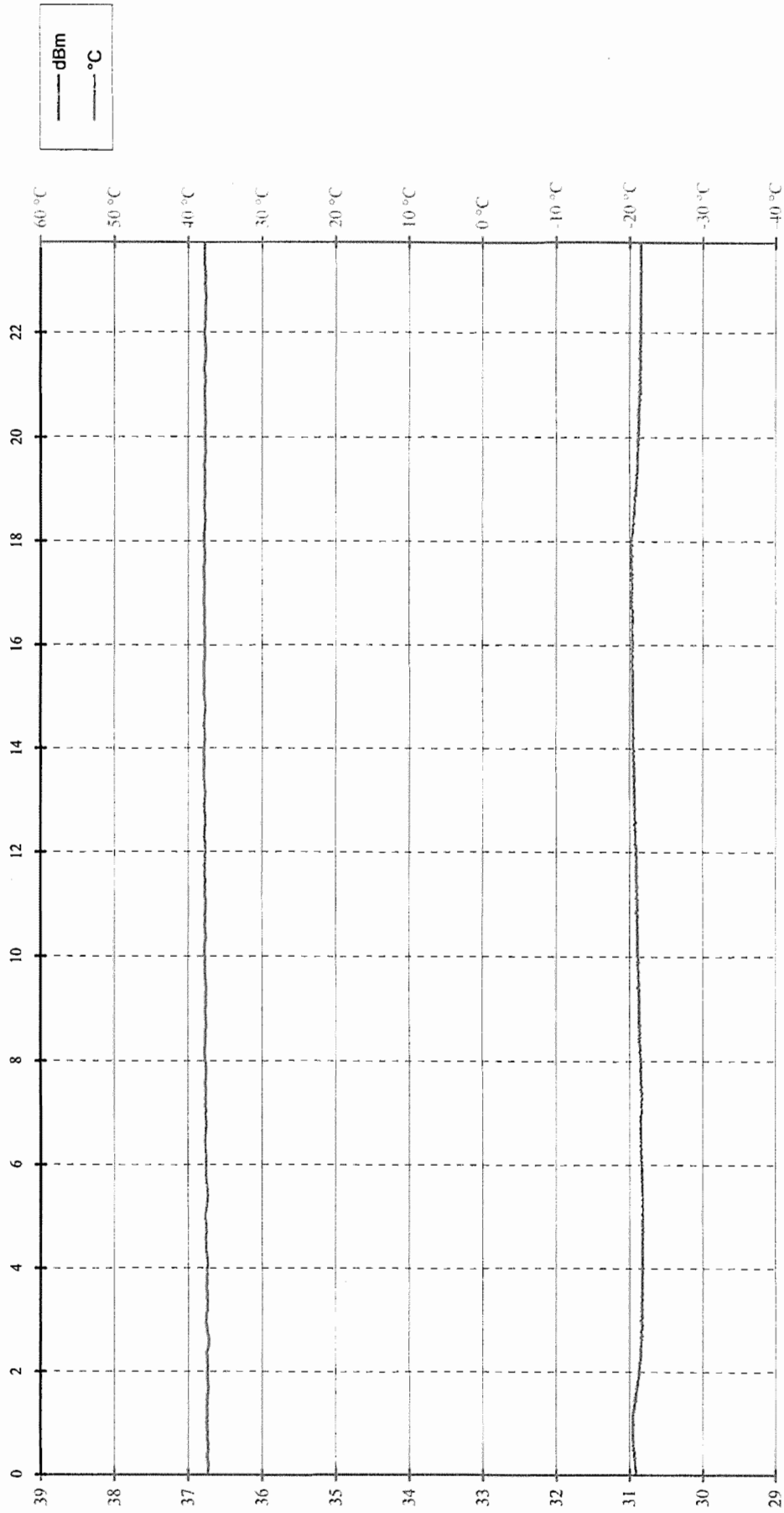
Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Numero : C204

Date : 16 Apr 2003

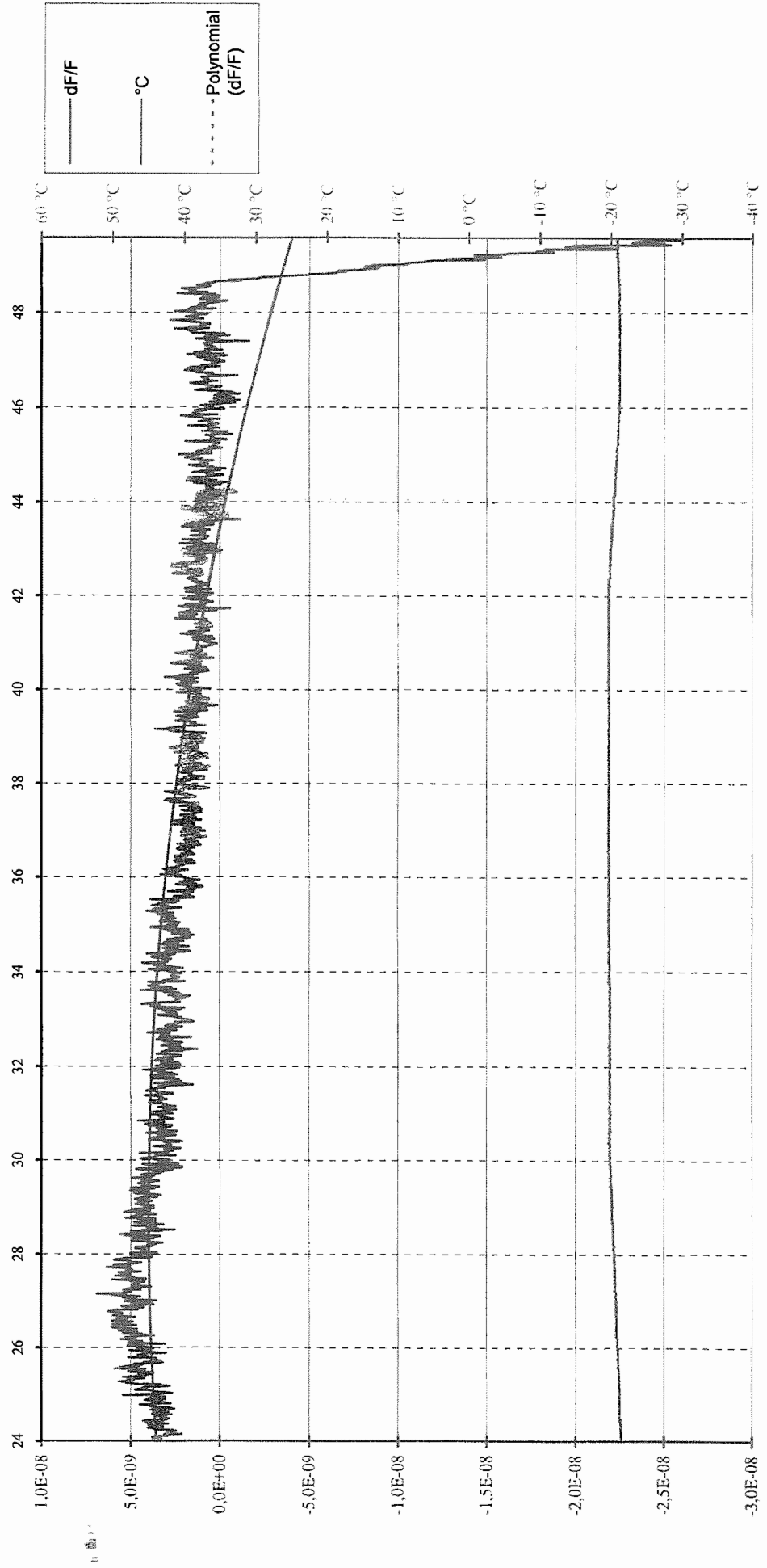
Time : 14:18:50

**OUTPUT POWER ( 35 to 39 dBm )**

Date : 16 Apr 2003  
 Time : 14:18:50

**LIFE TEST AT -20 °C**  
 Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.  
 Model : MT400  
 Numero : C204

**FREQUENCY VARIATION**



**LIFE TEST AT -20 °C**

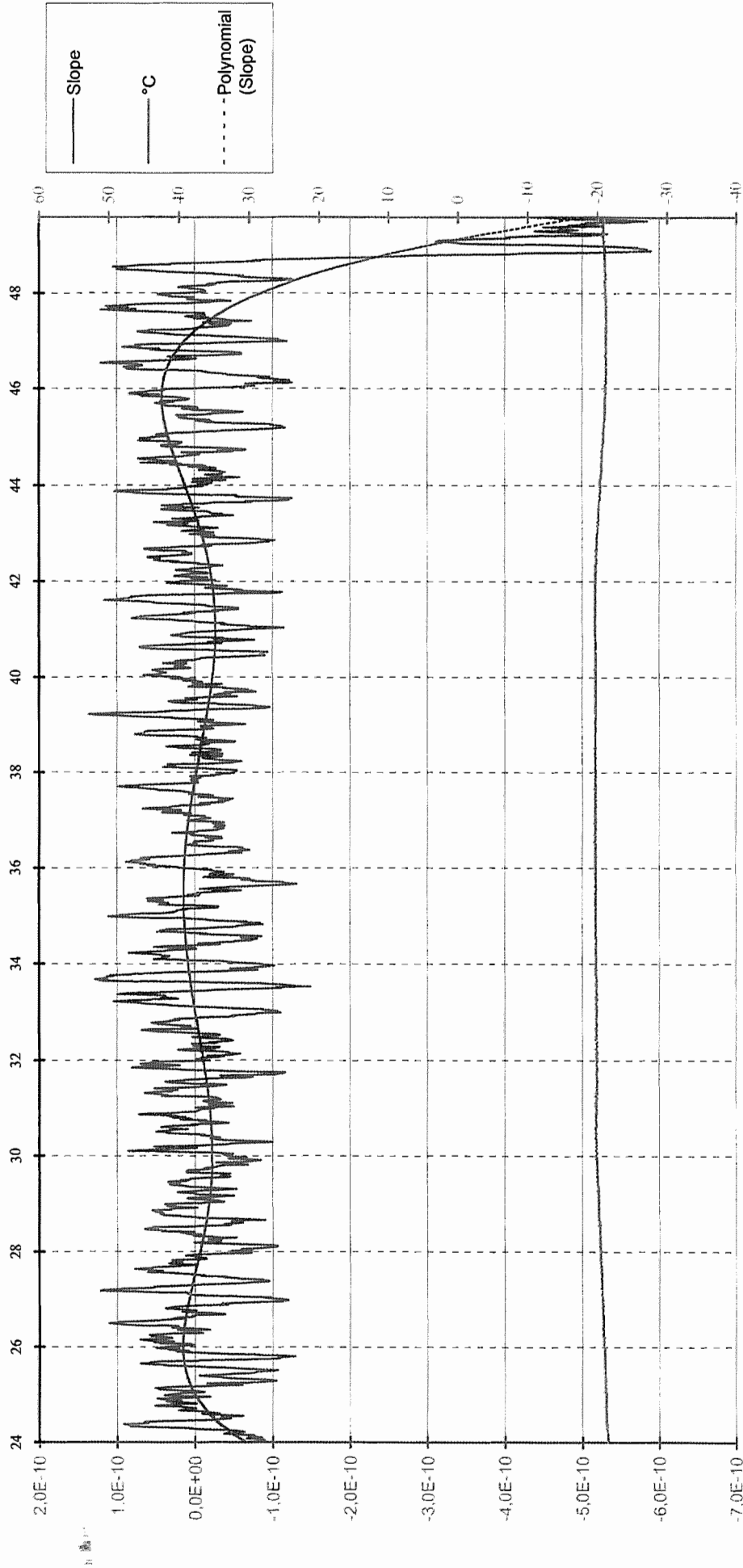
Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Numero : C204

Date : 16 Apr 2003

Time : 14:18:50

**MEDIUM TERM STABILITY : MEAN SLOPE /mm ( -1,0E-9 to 1,0E-9 )**


**LIFE TEST AT -20 °C**

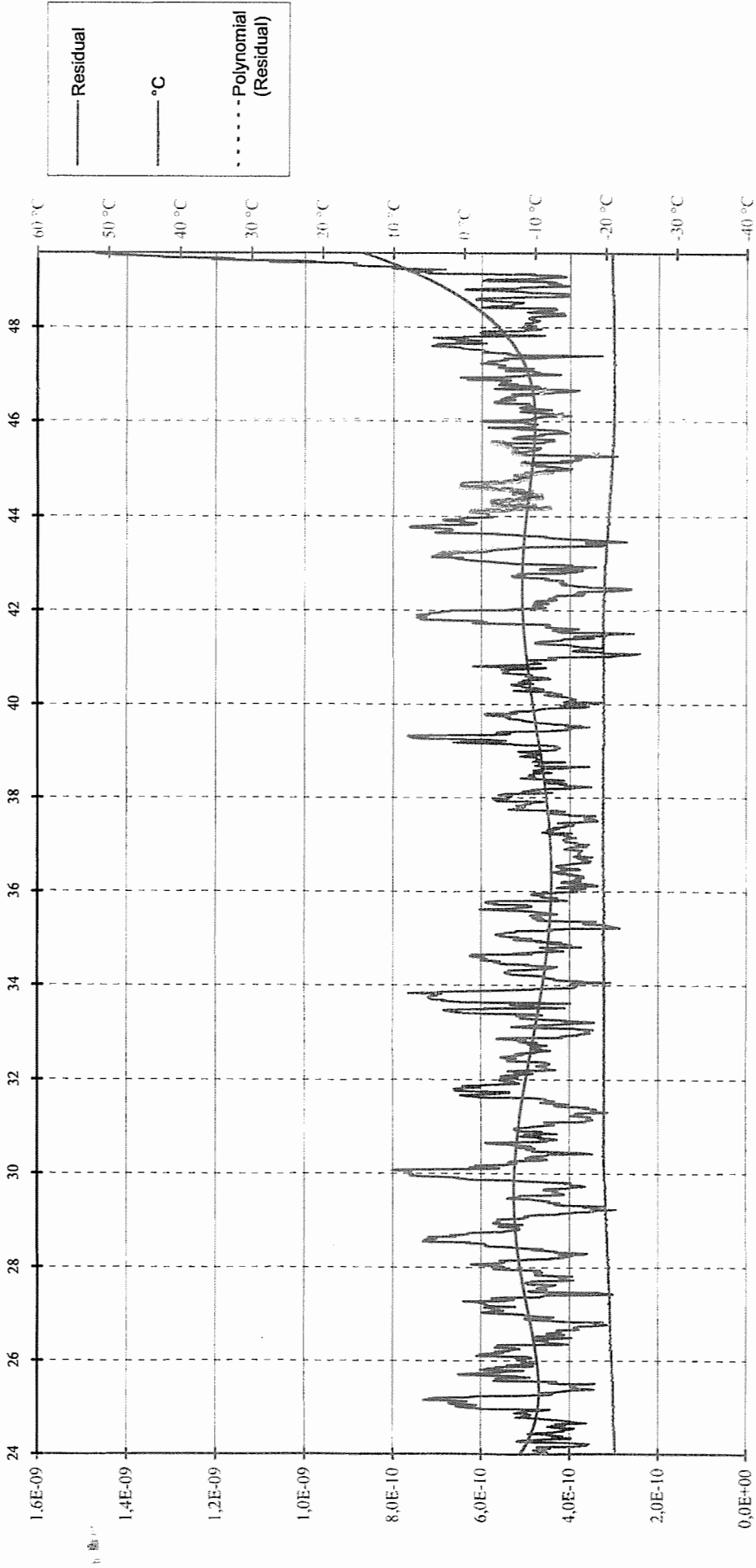
Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Numero : C204

Date : 16 Apr 2003

Time : 14:18:50

**MEDIUM TERM STABILITY : RESIDUAL ( ≤ 3,0E-9 )**


**LIFE TEST AT -20 °C**

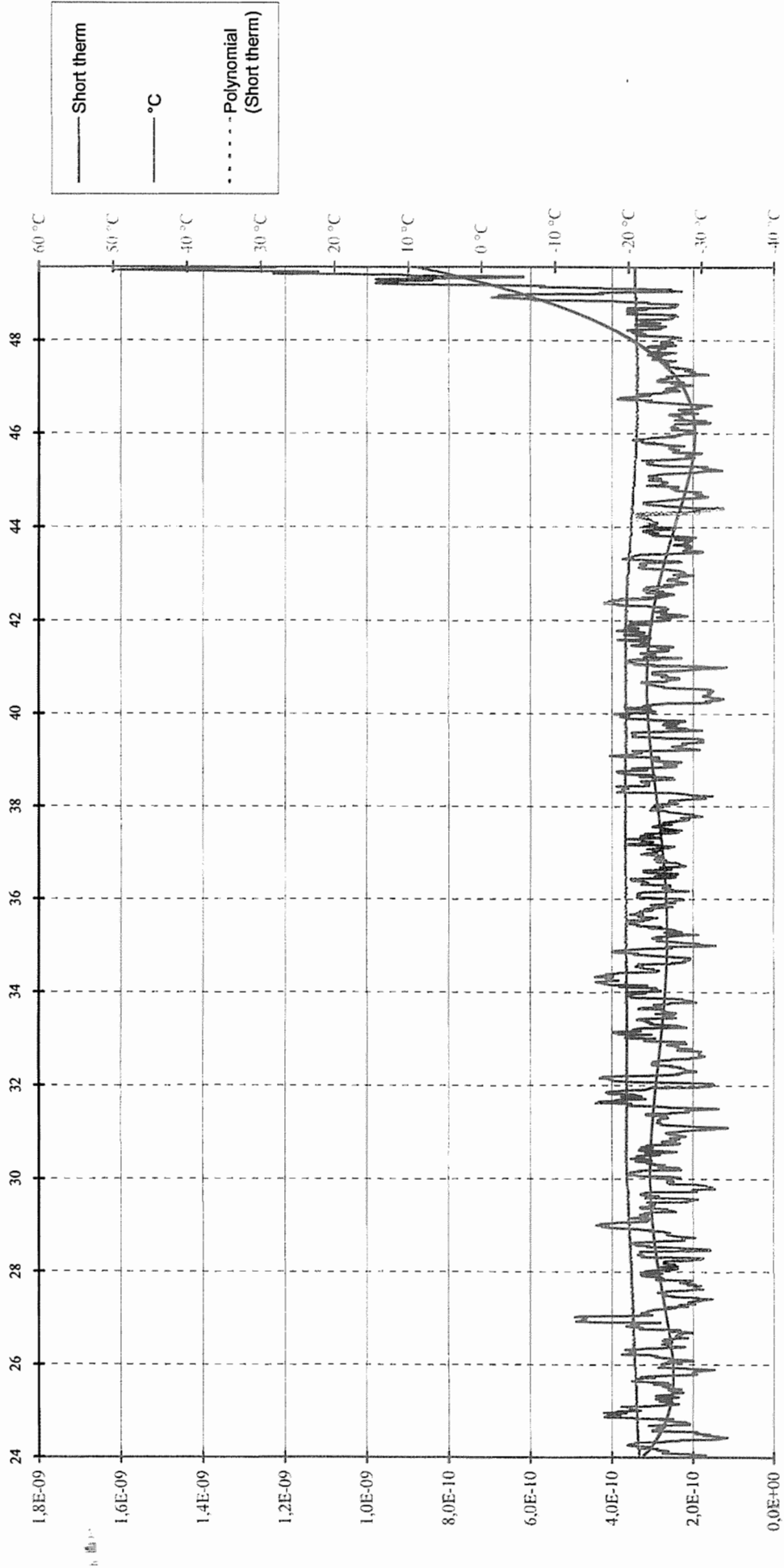
Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Numero : C204

Date : 16 Apr 2003

Time : 14:18:50

**SHORT TERM STABILITY /100 mS (  $\leq 2,0E-9$  )**


**LIFE TEST AT -20 °C**

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

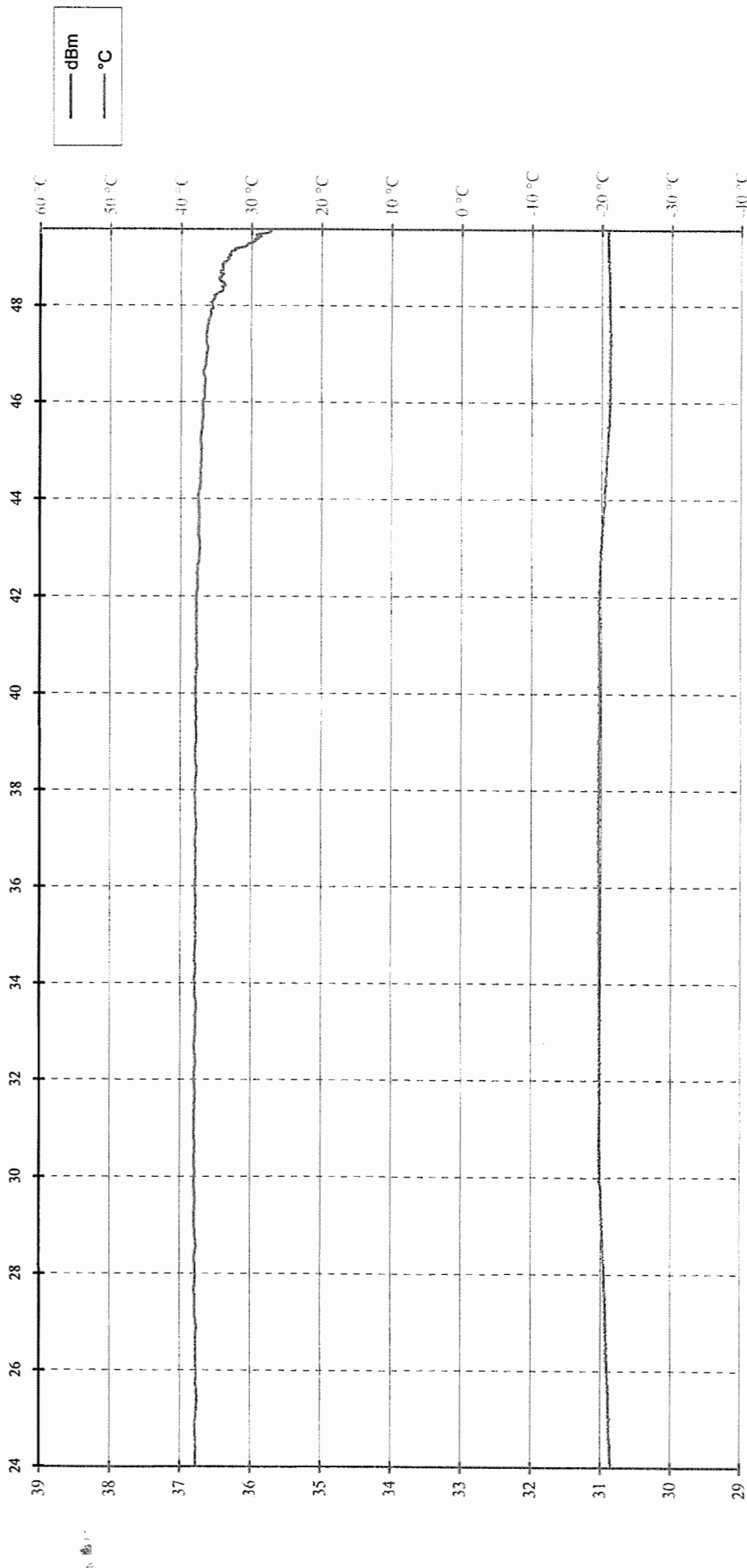
Model : MT400

Numero : C204

Date : 16 Apr 2003

Time : 14:18:50

**OUTPUT POWER ( 35 to 39 dBm )**



**TEMPERATURE GRADIENT TEST RESULT ON  
MT400 STANDARD COMMUNICATIONS PTY. LTD. EPIRB  
N° C204**

**at -20° C, 22° C and 55° C**

No	Δ Frequency ( Hz )	Temp. ( °C )	P406 ( dBm )	P121.5 ( dBm )
1	49943,19	-20,8	36,5	18,6
2	49942,77	-20,7	36,5	18,6
3	49944,32	-20,7	36,4	18,6
4	49944,22	-20,6	36,5	18,6
5	49945,31	-20,6	36,4	18,6
6	49945,38	-20,7	36,5	18,6
7	49945,40	-20,7	36,5	18,5
8	49945,64	-20,7	36,4	18,5
9	49946,22	-20,7	36,5	18,4
10	49946,48	-20,7	36,5	18,4
11	49946,49	-20,6	36,5	18,4
12	49946,13	-20,7	36,5	18,6
13	49947,04	-20,7	36,5	18,5
14	49947,32	-20,6	36,5	18,3
15	49947,18	-20,7	36,4	18,5
16	49947,77	-20,8	36,5	18,6
17	49947,77	-20,7	36,4	18,3
18	49947,65	-20,7	36,4	18,1

No	Temp.	Slope	Sigma	P406	Short term	P121.5
1	-20,7	7,3E-10	1,1E-9	36,5	3,4E-10	18,6
18	-20,7	5,0E-11	4,8E-10	36,4	2,7E-10	18,6
31	-20,8	-8,7E-11	5,1E-10	36,4	2,4E-10	18,6
61	-20,7	-6,8E-11	5,5E-10	36,4	1,8E-10	18,6
91	-19,5	2,4E-11	4,5E-10	36,4	2,5E-10	18,2
121	-17,5	-1,2E-10	5,1E-10	36,4	2,7E-10	18,5
151	-15,4	5,9E-11	6,4E-10	36,4	3,1E-10	18,5
181	-13,4	5,7E-11	4,8E-10	36,4	3,3E-10	18,0
211	-11,4	3,5E-11	4,0E-10	36,3	2,4E-10	18,4
241	-9,3	2,3E-11	6,8E-10	36,3	3,2E-10	18,5
271	-7,0	4,0E-12	7,7E-10	36,3	2,0E-10	18,5
301	-4,8	5,7E-11	9,0E-10	36,3	1,7E-10	18,1
331	-2,4	3,6E-11	7,7E-10	36,3	2,9E-10	18,4
361	-0,3	7,0E-11	1,0E-9	36,2	2,2E-10	18,3
391	2,1	5,4E-11	6,7E-10	36,2	3,7E-10	18,4
421	4,1	-9,5E-11	6,1E-10	36,2	1,9E-10	18,0
451	6,0	2,3E-12	7,1E-10	36,1	3,2E-10	18,4
481	8,2	-6,3E-12	7,2E-10	36,1	2,4E-10	18,3
511	10,2	2,2E-11	3,8E-10	36,1	2,3E-10	18,4
541	12,4	-3,3E-11	5,0E-10	36,0	2,0E-10	18,4
571	14,5	-1,4E-11	5,3E-10	36,0	1,5E-10	18,0
601	16,6	-6,3E-11	6,0E-10	36,0	2,8E-10	18,3
631	18,8	-1,1E-10	4,3E-10	35,9	2,3E-10	18,3
661	20,8	-1,0E-10	8,1E-10	35,9	2,2E-10	18,3
691	22,9	-8,5E-11	7,3E-10	35,9	2,3E-10	18,2
721	25,0	-7,5E-12	6,6E-10	35,8	2,6E-10	18,2
751	27,2	-6,6E-11	6,5E-10	35,8	1,8E-10	18,2
781	29,3	9,5E-12	6,1E-10	35,8	2,1E-10	18,0
811	31,5	2,9E-11	7,0E-10	35,7	2,1E-10	17,7
841	33,6	-1,0E-11	5,7E-10	35,6	2,3E-10	17,7

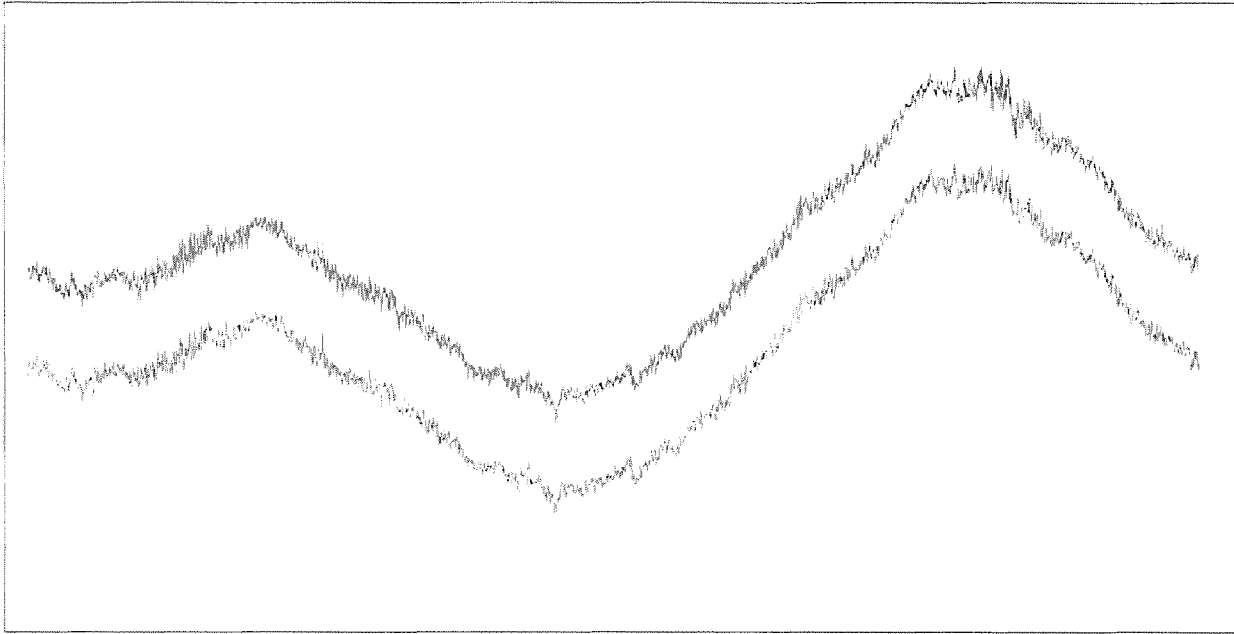


No	Temp.	Slope	Sigma	P406	Short term	P121.5
871	35,7	-1,0E-10	4,7E-10	35,5	1,9E-10	18,2
901	37,8	2,0E-11	6,0E-10	35,4	2,0E-10	18,0
931	39,9	1,1E-11	5,0E-10	35,6	2,9E-10	18,2
961	41,9	-8,3E-11	5,1E-10	35,6	2,3E-10	18,0
991	44,0	-8,0E-11	3,8E-10	35,5	2,6E-10	17,7
1021	46,0	6,3E-13	5,1E-10	35,5	2,0E-10	18,1
1051	48,0	-2,2E-11	4,7E-10	35,5	3,2E-10	18,1
1081	50,0	-1,8E-11	5,5E-10	35,4	2,6E-10	17,5
1111	52,1	-2,9E-11	6,8E-10	35,4	1,9E-10	18,0
1141	54,3	-9,4E-11	5,4E-10	35,4	2,5E-10	18,0
1171	55,3	-7,9E-11	6,2E-10	35,3	3,1E-10	18,1
1201	55,4	5,5E-11	3,9E-10	35,3	1,3E-10	17,6
1231	55,7	7,4E-12	5,2E-10	35,3	1,9E-10	18,1
1261	55,6	2,2E-11	4,5E-10	35,3	2,6E-10	18,0
1291	55,6	1,7E-11	4,4E-10	35,3	1,8E-10	18,0
1321	54,1	7,8E-11	4,0E-10	35,3	1,8E-10	18,1
1351	51,9	2,2E-11	5,1E-10	35,3	2,3E-10	18,1
1381	49,9	8,2E-11	5,0E-10	35,4	3,1E-10	18,1
1411	47,8	7,7E-12	4,6E-10	35,4	2,1E-10	18,1
1441	45,4	5,6E-11	5,5E-10	35,4	2,2E-10	18,1
1471	43,2	7,9E-11	3,6E-10	35,5	1,4E-10	17,9
1501	40,9	6,8E-11	4,6E-10	35,5	1,8E-10	18,2
1531	38,9	1,2E-10	6,0E-10	35,5	1,9E-10	18,3
1561	36,9	1,7E-10	6,4E-10	35,6	2,0E-10	18,1
1591	34,8	1,1E-12	6,5E-10	35,6	1,1E-10	18,3
1621	32,8	4,1E-11	5,0E-10	35,6	2,4E-10	18,3
1651	30,6	1,2E-12	5,9E-10	35,7	1,7E-10	18,3
1681	28,2	8,1E-11	6,6E-10	35,7	2,9E-10	18,3
1711	25,9	7,0E-11	9,6E-10	35,7	1,8E-10	18,3
1741	23,9	6,7E-11	7,7E-10	35,8	2,3E-10	18,3
1771	21,7	1,3E-10	7,8E-10	35,8	2,1E-10	18,4
1801	19,6	-5,0E-12	5,8E-10	35,8	3,2E-10	18,3
1831	17,4	7,4E-12	6,0E-10	35,9	1,4E-10	18,4
1861	15,4	3,9E-11	7,6E-10	35,9	1,4E-10	18,4
1891	13,3	1,1E-10	6,5E-10	35,9	3,3E-10	18,4
1921	11,3	1,4E-10	5,1E-10	36,0	2,1E-10	18,4
1951	9,2	4,7E-11	3,1E-10	36,0	2,3E-10	18,4
1981	7,1	7,5E-12	4,9E-10	36,0	1,9E-10	18,4
2011	5,4	-7,5E-11	5,7E-10	36,1	2,2E-10	18,4
2041	3,2	2,7E-11	5,7E-10	36,1	2,6E-10	18,2
2071	1,4	7,5E-11	7,4E-10	36,1	3,0E-10	18,3
2101	-0,8	8,1E-11	8,1E-10	36,2	2,0E-10	18,1
2131	-2,8	-1,3E-12	9,5E-10	36,2	2,5E-10	18,5
2161	-4,9	-4,7E-11	1,1E-9	36,2	3,1E-10	18,6
2191	-7,2	2,0E-11	1,0E-9	36,3	2,3E-10	18,6
2221	-9,0	-1,2E-10	8,5E-10	36,3	2,8E-10	18,5
2251	-11,0	-9,4E-11	1,0E-9	36,3	2,4E-10	18,5
2281	-13,3	-4,6E-11	6,8E-10	36,4	2,8E-10	18,6
2311	-15,3	-9,5E-11	5,7E-10	36,4	2,3E-10	18,4
2341	-17,5	-8,7E-11	4,4E-10	36,4	2,9E-10	18,2
2371	-19,5	-8,6E-11	6,2E-10	36,5	2,4E-10	18,7

No	Temp.	Slope	Sigma	P406	Short term	P121.5
2401	-20,5	1,9E-11	5,7E-10	36,5	3,7E-10	18,6
2431	-20,7	-8,3E-11	4,4E-10	36,5	2,4E-10	18,6
2461	-20,6	-4,3E-11	6,0E-10	36,5	3,9E-10	18,7
2491	-20,7	-4,3E-11	5,8E-10	36,5	2,8E-10	18,6
2521	-20,7	-1,1E-10	6,6E-10	36,5	2,7E-10	18,4
2551	-20,7	-3,0E-11	4,4E-10	36,5	1,9E-10	18,7
2581	-20,7	-1,1E-10	5,8E-10	36,5	3,5E-10	18,4
2611						
2641						
2671						
2701						
2731						
2761						
2791						
2821						
2851						
2881						
2911						
2941						
2971						
3001						
3031						
3061						
3091						
3121						
3151						
3181						
3211						
3241						
3271						
3301						
3331						
3361						
3391						
3421						
3451						
3481						
3511						
3541						
3571						
3601						
3631						
3661						
3691						
3721						
3751						
3781						
3811						
3841						
3871						
3901						

Beacon message at the end of Frequency Stability Test with Temperature Gradient :  
**FFFE2F5F7F03C48000009C00400**

**Frequency variation**  
406024963



406024939

— Initial tracing    — Smoothed tracing

**TEMPERATURE GRADIENT TEST RESULTS ( 5 °C / hour )**

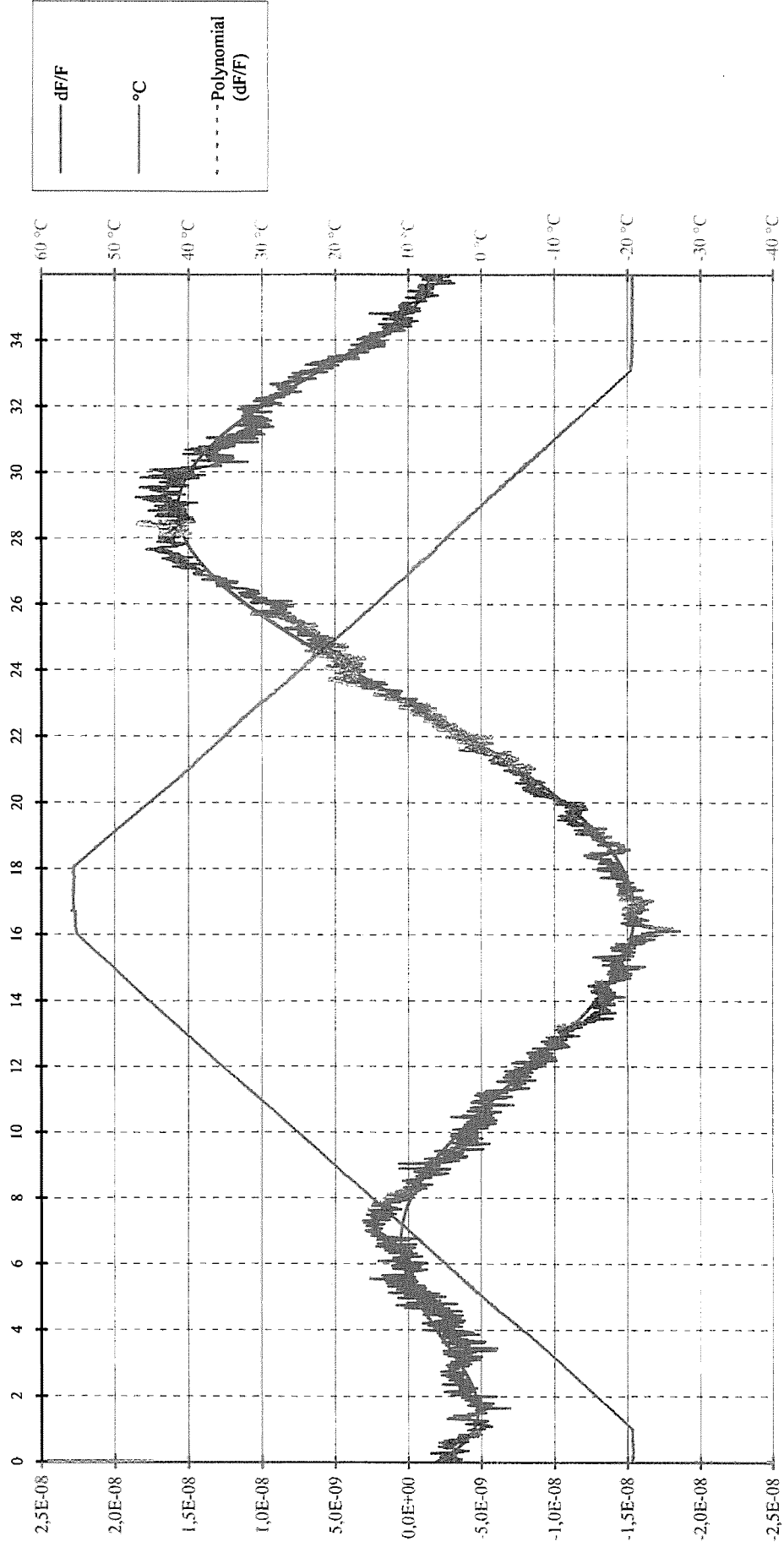
Date : 8 Apr 2003

Time : 14:56:36

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Number : C204

**FREQUENCY VARIATION**


**TEMPERATURE GRADIENT TEST RESULTS ( 5 °C / hour )**

Date : 8 Apr 2003

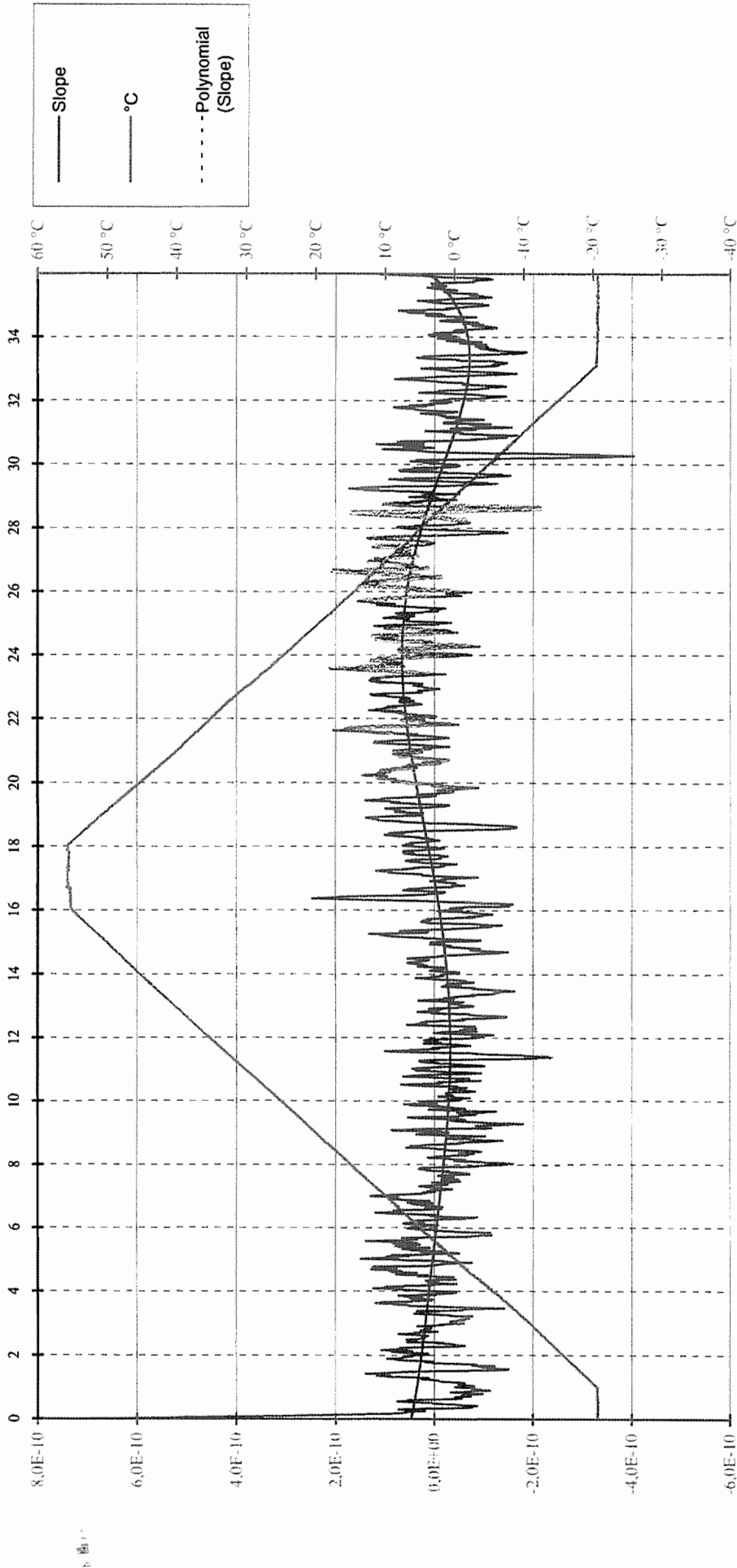
Time : 14:56:36

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Number : C204

**MEDIUM TERM STABILITY : MEAN SLOPE /mm ( -1,0E-9 to 1,0E-9 )**



**TEMPERATURE GRADIENT TEST RESULTS ( 5 °C / hour )**

Date : 8 Apr 2003

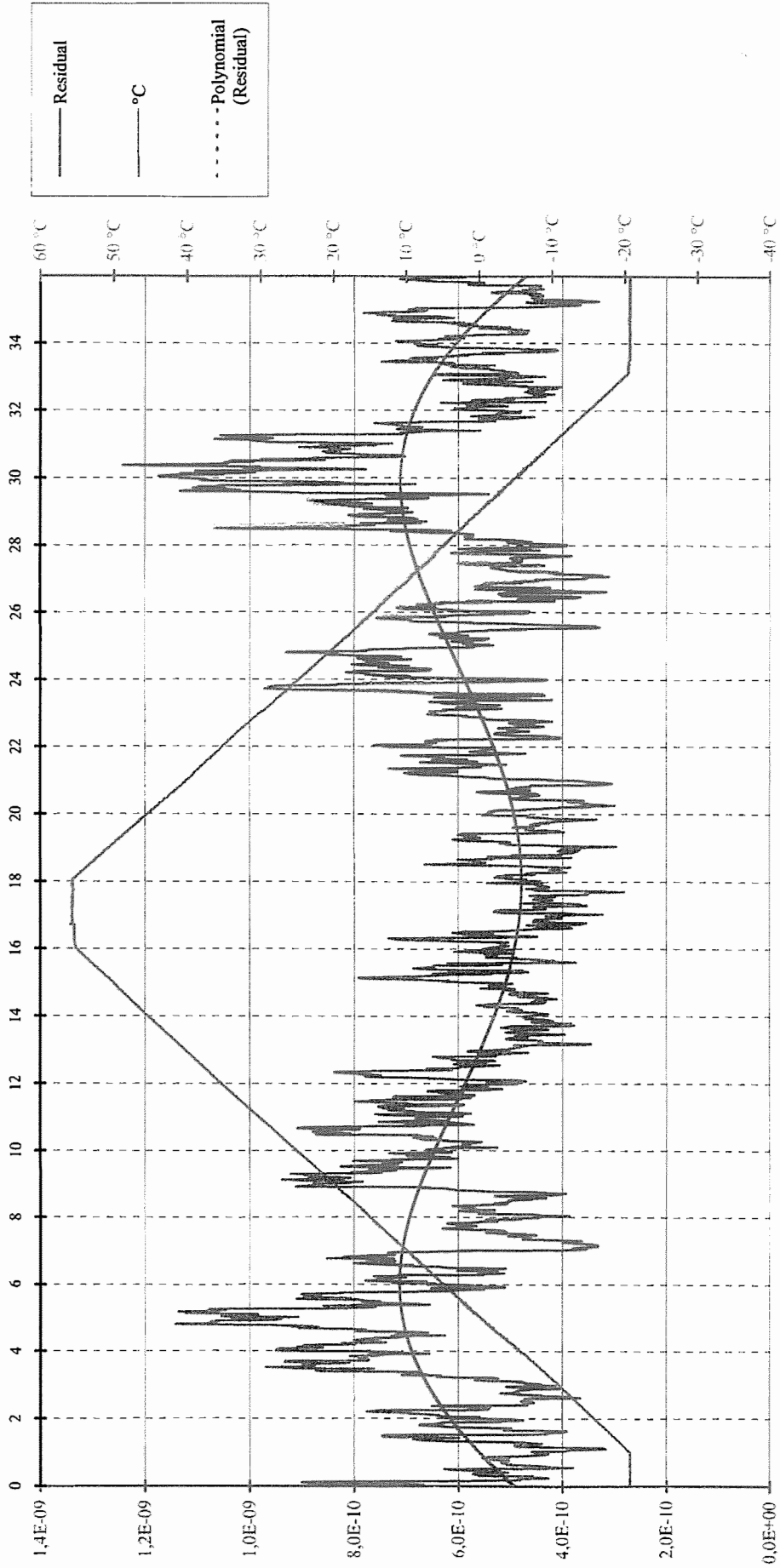
Time : 14:56:36

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Number : C204

**MEDIUM TERM STABILITY : RESIDUAL ( ≤ 3.0E-9 )**

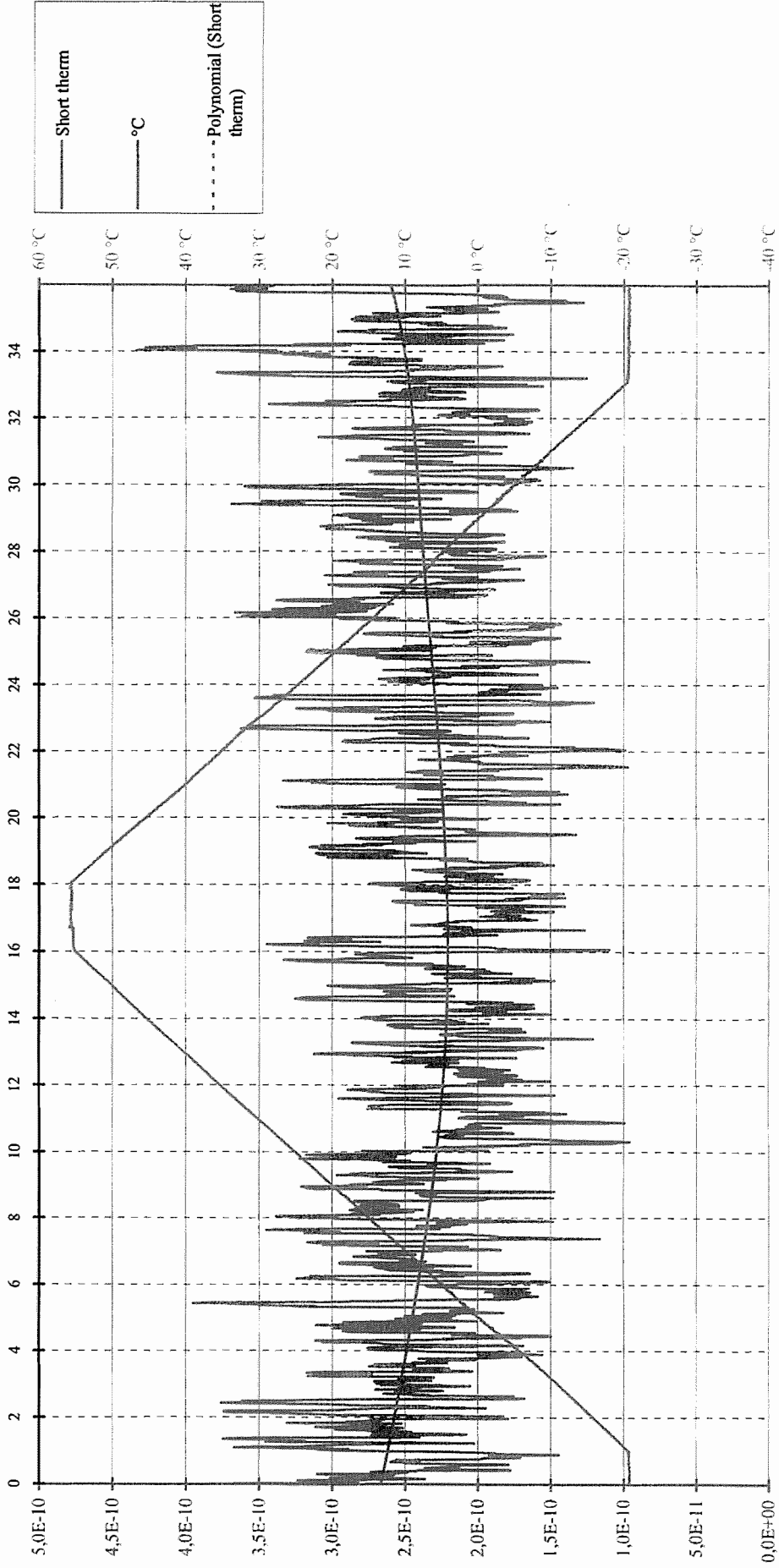


**TEMPERATURE GRADIENT TEST RESULTS ( 5 °C / hour )**

Date : 8 Apr 2003  
Time : 14:56:36

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.  
Model : MT400  
Number : C204

**SHORT TERM STABILITY /100 mS ( ≤ 2,0E-9 )**



**TEMPERATURE GRADIENT TEST RESULTS ( 5 °C / hour )**

Date : 8 Apr 2003

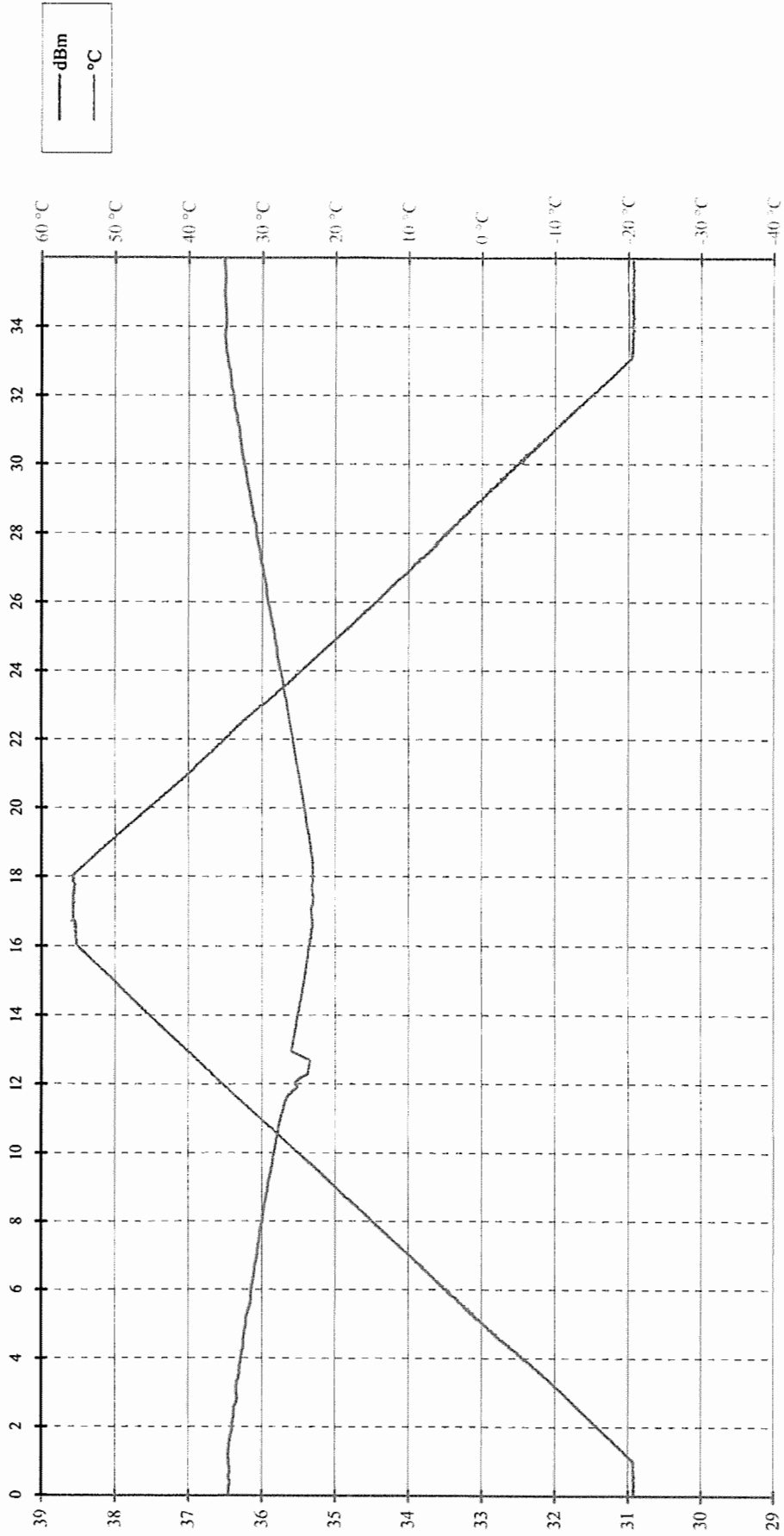
Time : 14:56:36

Manufacturer : STANDARD COMMUNICATIONS PTY. LTD.

Model : MT400

Number : C204

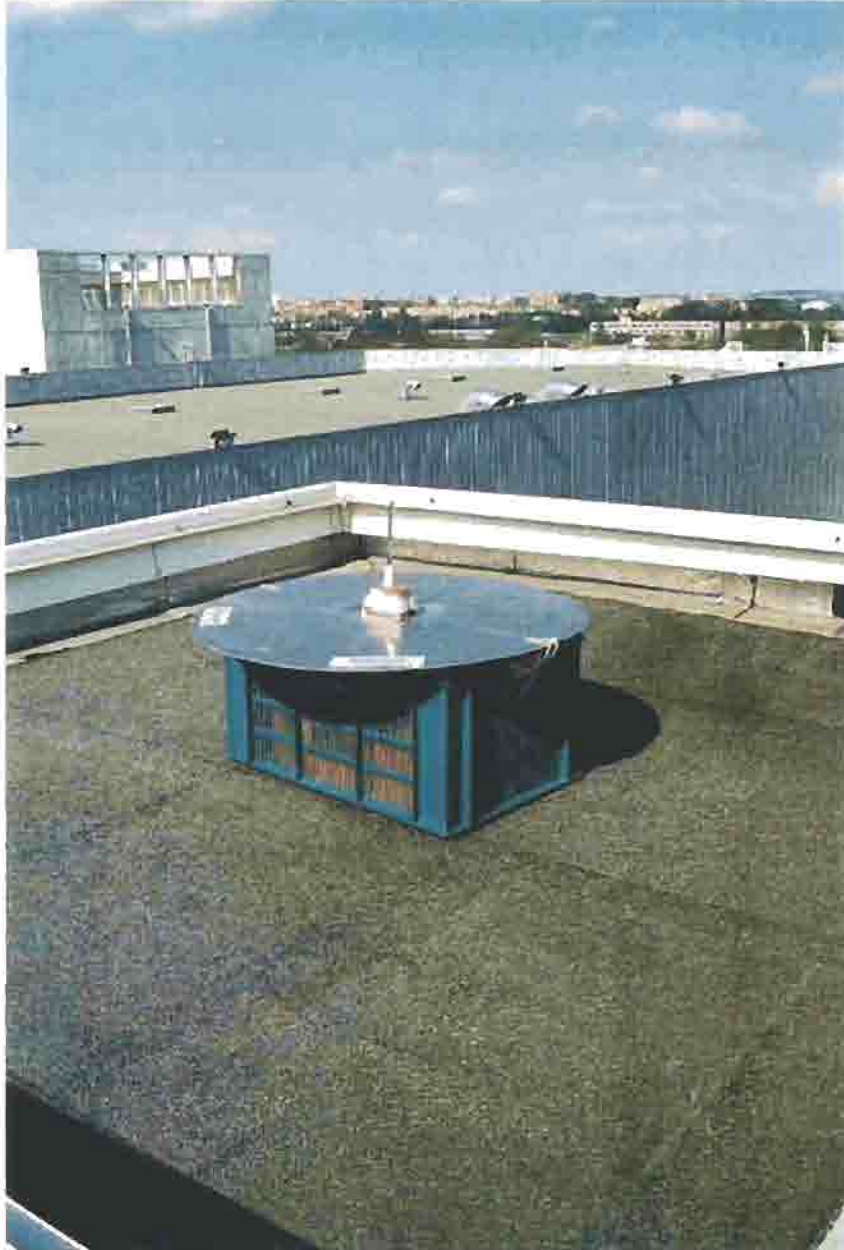
**OUTPUT POWER ( 35 to 39 dBm )**





**SATELLITE QUALITATIVE TEST RESULTS ON  
MT400 STANDARD COMMUNICATIONS PTY. LTD. EPIRB  
N° C204**

SATELLITE TEST SITE



RECHERCHE du 31/03/2003 09:34:17

Code balise : BEFE0789000001  
 Nom balise : ???????  
 Pays : 503 AUSTRALIA  
 Classe utilisateur : TEST--  
 Periode de consultation : 16/03/2003 09 a 31/03/2003 09  
 Position de reference : et  
 Toutes les luts  
 Tous les satellites  
 Date activation balise : //  
 Recherche dans base principale  
 Resultats edites suivant chronologie du TCA

* TCA	TPC	* SL	PTS	* LAT1	LONG1	PB	MAJ	BIAS	ERR	* LAT2	LONG2	* CTA	FB	WF	SDV	CF	SRCE	MCCN
* 28/03 08H59	09H06	* S06	13	* 43.561	1.478	98	1	2969	0.16	* 53.372	-47.840	* 17.5	4	0	0.5	4/0	2271	7E+05
* 28/03 09H08	09H14	* S04	5	* 43.568	1.485	89	3	2972	1.02	* 30.772	63.433	* 23.9	4	0	3.6	4/0	2272	7E+05
* 28/03 09H08	10H59	* S04	5	* 43.566	1.487	89	3	2972	0.91	* 30.771	63.422	* 23.9	-4	0	3.6	4/0	2271	7E+05
* 28/03 09H54	10H03	* S09	18	* 43.560	1.483	98	1	2972	0.27	* 39.253	22.967	* 8.0	4	0	0.3	4/0	2271	7E+05
* 28/03 09H54	11H42	* S09	18	* 43.559	1.483	98	1	2972	0.28	* 39.253	22.962	* 8.0	-4	0	0.3	4/0	2271	7E+05
* 28/03 10H01	10H05	* S07	6	* 43.565	1.478	82	6	2972	0.61	* 57.828	-78.245	* 26.0	-4	0	4.2	4/0	2272	7E+05
* 28/03 10H01	16H33	* S07	6	* 43.567	1.477	82	6	2973	0.85	* 57.825	-78.252	* 26.0	-4	0	4.2	4/0	2271	7E+05
* 28/03 10H27	12H14	* S08	3	* 43.553	1.510	50	39	2978	2.59	* 59.074	86.616	* 27.2	-4	0	0.0	1/0	2272	7E+05
* 28/03 10H27	13H55	* S08	3	* 43.551	1.509	50	39	2977	2.57	* 59.073	86.607	* 27.2	-4	0	0.0	1/0	2271	7E+05
* 28/03 10H50	10H59	* S04	16	* 43.559	1.482	98	1	2972	0.23	* 40.565	16.314	* 5.5	4	0	0.2	4/0	2271	7E+05
* 28/03 10H50	12H38	* S04	16	* 43.559	1.482	98	1	2972	0.27	* 40.565	16.312	* 5.5	-4	0	0.2	4/0	2271	7E+05
* 28/03 11H34	11H42	* S09	15	* 43.559	1.478	99	1	2970	0.14	* 48.571	-24.208	* 9.6	4	0	0.2	4/0	2271	7E+05
* 28/03 11H34	13H17	* S09	15	* 43.559	1.477	99	1	2970	0.20	* 48.572	-24.208	* 9.6	-4	0	0.2	4/0	2271	7E+05
* 28/03 12H06	12H14	* S08	16	* 43.560	1.483	99	1	2968	0.26	* 50.350	35.996	* 12.7	4	0	0.2	4/0	2272	7E+05
* 28/03 12H06	13H55	* S08	15	* 43.560	1.481	99	1	2968	0.11	* 50.352	35.982	* 12.7	-4	0	0.2	4/0	2271	7E+05
* 28/03 12H30	12H38	* S04	13	* 43.559	1.475	99	1	2968	0.35	* 49.957	-31.086	* 12.0	4	0	0.2	4/0	2271	7E+05
* 28/03 13H13	13H17	* S09	8	* 43.562	1.474	94	2	2969	0.53	* 57.300	-73.496	* 24.8	4	0	1.5	4/0	2271	7E+05
* 28/03 13H13	21H26	* S09	8	* 43.564	1.474	94	2	2969	0.58	* 57.297	-73.505	* 24.8	-4	0	1.5	4/0	2271	7E+05
* 28/03 13H46	13H55	* S08	18	* 43.559	1.474	99	1	2969	0.48	* 40.922	-11.521	* 4.8	4	0	0.1	4/0	2271	7E+05
* 28/03 13H46	15H34	* S08	18	* 43.559	1.476	99	1	2969	0.33	* 40.923	-11.515	* 4.8	-4	0	0.1	4/0	2272	7E+05
* 28/03 13H46	03H55	* S08	18	* 43.560	1.478	99	1	2969	0.14	* 40.923	-11.522	* 4.8	-4	0	0.2	4/0	2271	7E+05
* 28/03 14H09	20H44	* S04	6	* 43.564	1.483	85	5	2972	0.57	* 58.640	-81.307	* 26.7	-4	0	3.4	4/0	2271	7E+05
* 28/03 15H28	15H34	* S08	10	* 43.560	1.479	98	1	2971	0.05	* 31.130	-58.676	* 23.2	4	0	0.4	4/0	2272	7E+05
* 28/03 15H28	06H32	* S08	10	* 43.561	1.482	98	1	2971	0.24	* 31.135	-58.678	* 23.2	-4	0	0.4	4/0	2272	7E+05
* 28/03 15H28	03H55	* S08	10	* 43.565	1.481	98	1	2970	0.55	* 31.136	-58.683	* 23.2	-4	0	0.4	4/0	2271	7E+05
* 28/03 15H42	15H50	* C04	4	* 43.567	1.471	97	2	2968	1.07	* 40.152	51.860	* 19.4	4	0	2.1	4/0	2271	7E+05
* 28/03 15H42	02H44	* C04	4	* 43.565	1.473	97	2	2968	0.76	* 40.151	51.858	* 19.4	-4	0	2.1	4/0	2271	7E+05
* 28/03 16H26	16H33	* S07	14	* 43.561	1.481	98	1	2970	0.14	* 53.153	52.712	* 18.1	4	0	0.4	4/0	2271	7E+05
* 28/03 16H26	18H14	* S07	14	* 43.560	1.481	98	1	2970	0.13	* 53.153	52.710	* 18.1	-4	0	0.4	4/0	2271	7E+05
* 28/03 17H06	17H14	* S06	16	* 43.562	1.483	99	1	2969	0.36	* 49.056	28.624	* 10.1	4	0	0.2	4/0	2271	7E+05
* 28/03 17H26	17H36	* C04	5	* 43.548	1.655	64	19	2969	14.23	* 43.462	2.639	* 0.2	4	0	0.4	3/0	2272	7E+05
* 28/03 17H26	19H21	* C04	5	* 43.548	1.656	64	19	2969	14.28	* 43.461	2.648	* 0.2	-4	0	0.4	3/0	2272	7E+05
* 28/03 17H26	02H44	* C04	5	* 43.550	1.641	63	20	2969	13.05	* 43.471	2.501	* 0.2	-4	0	0.4	3/0	2271	7E+05
* 28/03 18H05	18H14	* S07	17	* 43.562	1.493	95	2	2971	1.14	* 44.241	5.007	* 1.5	4	0	0.2	4/0	2271	7E+05
* 28/03 18H47	18H55	* S06	18	* 43.560	1.475	97	1	2969	0.36	* 39.354	-18.624	* 7.5	4	0	0.4	4/0	2271	7E+05
* 28/03 19H13	19H21	* C04	14	* 43.559	1.478	99	1	2971	0.16	* 47.681	-53.048	* 18.0	4	0	0.2	4/0	2272	7E+05
* 28/03 19H13	02H44	* C04	15	* 43.562	1.478	99	1	2971	0.26	* 47.575	-53.081	* 18.0	-4	0	0.3	4/0	2271	7E+05
* 28/03 19H38	19H45	* S09	14	* 43.559	1.481	98	1	2971	0.15	* 53.916	55.998	* 19.1	4	0	0.4	4/0	2272	7E+05
* 28/03 19H38	21H26	* S09	14	* 43.560	1.480	98	1	2971	0.05	* 53.918	55.995	* 19.1	-4	0	0.4	4/0	2271	7E+05
* 28/03 19H46	19H53	* S07	15	* 43.559	1.475	98	1	2970	0.35	* 34.830	-42.213	* 16.7	4	0	0.3	4/0	2271	7E+05
* 28/03 19H46	06H28	* S07	15	* 43.562	1.478	98	1	2970	0.27	* 34.834	-42.215	* 16.7	-4	0	0.3	4/0	2271	7E+05
* 28/03 20H37	20H44	* S04	15	* 43.562	1.479	99	1	2971	0.19	* 52.325	46.728	* 16.2	4	0	0.2	4/0	2271	7E+05
* 28/03 20H37	22H25	* S04	15	* 43.560	1.479	99	1	2971	0.08	* 52.326	46.727	* 16.2	-4	0	0.2	4/0	2271	7E+05
* 28/03 21H17	21H26	* S09	18	* 43.562	1.489	96	1	2970	0.79	* 44.882	8.221	* 2.7	4	0	0.2	4/0	2271	7E+05
* 28/03 21H17	23H05	* S09	18	* 43.562	1.489	96	1	2970	0.77	* 44.882	8.219	* 2.7	-4	0	0.2	4/0	2271	7E+05
* 28/03 22H17	22H25	* S04	12	* 43.555	1.453	85	3	2970	2.23	* 43.114	-0.785	* 0.7	4	0	0.3	4/0	2271	7E+05
* 28/03 22H17	06H05	* S04	17	* 43.554	1.454	50	2	2970	2.13	* 43.182	-0.439	* 0.7	-4	0	0.2	4/0	2271	7E+05
* 28/03 22H57	23H05	* S09	15	* 43.560	1.478	99	1	2969	0.12	* 35.353	-38.916	* 15.4	4	0	0.2	4/0	2271	7E+05
* 28/03 22H57	09H40	* S09	15	* 43.562	1.480	99	1	2969	0.24	* 35.356	-38.917	* 15.4	-4	0	0.2	4/0	2271	7E+05
* 28/03 23H58	00H05	* S04	13	* 43.558	1.477	97	1	2970	0.33	* 33.315	-48.145	* 19.1	4	0	0.7	4/0	2271	7E+05
* 29/03 00H25	00H32	* S08	12	* 43.560	1.480	99	1	2970	0.05	* 31.745	58.964	* 22.2	4	0	0.2	4/0	2272	7E+05
* 29/03 00H25	02H16	* S08	12	* 43.559	1.481	99	1	2970	0.21	* 31.744	58.959	* 22.2	-4	0	0.2	4/0	2271	7E+05
* 29/03 00H25	03H55	* S08	12	* 43.559	1.482	99	1	2970	0.27	* 31.743	58.957	* 22.2	-4	0	0.2	4/0	2271	7E+05
* 29/03 02H07	02H16	* S08	18	* 43.559	1.481	98	1	2971	0.14	* 41.500	11.684	* 3.7	4	0	0.1	4/0	2272	7E+05
* 29/03 02H07	03H55	* S08	18	* 43.559	1.483	99	1	2970	0.34	* 41.501	11.677	* 3.7	-4	0	0.1	4/0	2271	7E+05
* 29/03 02H35	02H44	* C04	4	* 43.551	1.480	42	1	2968	1.04	* 48.428	61.783	* 19.8	4	0	0.7	4/0	2271	7E+05
* 29/03 02H35	04H32	* C04	4	* 43.551	1.480	42	1	2968	1.04	* 48.428	61.783	* 19.8	-4	0	0.7	4/0	2271	7E+05

* TCA	TPC	* SL	PTS	* LAT1	LONG1	PB	MAJ	BIAIS	ERR	* LAT2	LONG2	* CTA	FB	WF	SDV	CF	SRCE	MCCN
* 29/03 03H47	03H55	* S08	15	* 43.560	1.479	99	1	2970	0.08	* 50.923	-35.858	* 13.6	4	0	0.2	4/0	2271	7E+05
* 29/03 03H47	12H03	* S08	16	* 43.560	1.477	99	1	2970	0.18	* 50.898	-35.832	* 13.6	-4	0	0.2	4/0	2272	7E+05
* 29/03 03H47	13H44	* S08	16	* 43.560	1.477	99	1	2970	0.21	* 50.889	-35.834	* 13.6	-4	0	0.2	4/0	2271	7E+05
* 29/03 04H22	04H32	* C04	5	* 43.560	1.496	95	2	2970	1.31	* 43.994	6.753	* 1.6	4	0	0.5	4/0	2271	7E+05
* 29/03 04H22	06H15	* C04	5	* 43.560	1.494	95	2	2970	1.19	* 43.994	6.756	* 1.6	-4	0	0.5	4/0	2272	7E+05
* 29/03 04H22	16H18	* C04	5	* 43.560	1.502	95	2	2970	1.82	* 43.993	6.747	* 1.6	-4	0	0.5	4/0	2271	7E+05
* 29/03 05H25	05H32	* S06	10	* 43.558	1.482	97	1	2967	0.27	* 32.725	52.909	* 19.9	4	0	0.7	4/0	2271	7E+05
* 29/03 05H26	12H03	* S08	5	* 43.563	1.454	78	5	2966	2.07	* 59.462	-86.671	* 27.9	-4	0	7.3	4/0	2272	7E+05
* 29/03 05H26	13H44	* S08	5	* 43.564	1.454	78	5	2966	2.07	* 59.464	-86.674	* 27.9	-4	0	7.3	4/0	2271	7E+05
* 29/03 06H07	06H15	* C04	12	* 43.560	1.477	99	1	2969	0.23	* 40.321	-43.570	* 17.4	4	0	0.3	4/0	2272	7E+05
* 29/03 06H07	16H18	* C04	12	* 43.556	1.474	99	1	2970	0.55	* 40.316	-43.565	* 17.4	-4	0	0.3	4/0	2271	7E+05
* 29/03 06H07	18H04	* C04	12	* 43.557	1.475	99	1	2970	0.45	* 40.317	-43.565	* 17.4	-4	0	0.3	4/0	2272	7E+05
* 29/03 06H19	06H28	* S07	16	* 43.561	1.480	99	1	2971	0.14	* 37.930	29.891	* 10.7	4	0	0.2	4/0	2271	7E+05
* 29/03 06H19	08H08	* S07	17	* 43.560	1.480	99	1	2971	0.09	* 37.942	29.922	* 10.7	-4	0	0.2	4/0	2271	7E+05
* 29/03 07H07	07H16	* S06	18	* 43.555	1.497	88	3	2967	1.51	* 42.663	5.831	* 1.5	4	0	0.5	4/0	2271	7E+05
* 29/03 07H59	08H08	* S07	17	* 43.561	1.478	98	1	2970	0.13	* 47.187	-17.355	* 7.1	4	0	0.3	4/0	2271	7E+05
* 29/03 07H59	09H43	* S07	13	* 43.561	1.476	98	1	2969	0.28	* 47.173	-17.343	* 7.1	-4	0	0.3	4/0	2272	7E+05
* 29/03 07H59	17H50	* S07	18	* 43.561	1.476	98	1	2970	0.30	* 47.174	-17.348	* 7.1	-4	0	0.3	4/0	2271	7E+05
* 29/03 08H47	08H54	* S06	13	* 43.561	1.472	98	1	2966	0.58	* 52.180	-41.634	* 15.5	4	0	0.4	4/0	2271	7E+05
* 29/03 08H54	08H58	* S04	4	* 43.572	1.483	89	2	2972	1.43	* 29.520	69.842	* 26.4	4	0	1.7	4/0	2272	7E+05
* 29/03 08H54	10H45	* S04	4	* 43.574	1.491	89	2	2972	1.81	* 29.516	69.836	* 26.4	-4	0	1.7	4/0	2271	7E+05
* 29/03 09H32	09H40	* S09	16	* 43.561	1.481	99	1	2968	0.19	* 37.077	33.576	* 12.2	4	0	0.2	4/0	2271	7E+05
* 29/03 09H32	11H20	* S09	16	* 43.561	1.482	99	1	2968	0.21	* 37.076	33.575	* 12.2	-4	0	0.2	4/0	2271	7E+05
* 29/03 09H38	09H43	* S07	9	* 43.562	1.478	97	2	2968	0.30	* 56.031	-66.241	* 22.8	-4	0	0.8	4/0	2272	7E+05
* 29/03 09H38	16H09	* S07	9	* 43.562	1.476	97	2	2968	0.35	* 56.027	-66.246	* 22.8	-4	0	0.8	4/0	2272	7E+05
* 29/03 09H38	17H50	* S07	9	* 43.562	1.477	97	2	2968	0.37	* 56.027	-66.245	* 22.8	-4	0	0.8	4/0	2271	7E+05
* 29/03 10H36	10H45	* S04	17	* 43.560	1.482	99	1	2966	0.17	* 39.229	22.894	* 8.0	4	0	0.2	4/0	2271	7E+05
* 29/03 10H36	12H25	* S04	17	* 43.560	1.482	99	1	2966	0.20	* 39.229	22.893	* 8.0	-4	0	0.2	4/0	2271	7E+05
* 29/03 10H36	14H00	* S04	17	* 43.560	1.481	99	1	2966	0.14	* 39.229	22.894	* 8.0	-4	0	0.2	4/0	2272	7E+05
* 29/03 11H12	11H20	* S09	16	* 43.560	1.477	99	1	2967	0.20	* 46.509	-13.602	* 5.8	4	0	0.1	4/0	2271	7E+05
* 29/03 11H12	12H56	* S09	17	* 43.560	1.477	99	1	2967	0.23	* 46.500	-13.594	* 5.8	-4	0	0.1	4/0	2271	7E+05
* 29/03 11H12	19H22	* S09	17	* 43.559	1.478	99	1	2967	0.11	* 46.501	-13.607	* 5.8	-4	0	0.1	4/0	2272	7E+05
* 29/03 11H55	12H03	* S08	17	* 43.561	1.483	99	1	2962	0.30	* 51.388	41.347	* 14.5	4	0	0.3	4/0	2272	7E+05
* 29/03 11H55	13H44	* S08	17	* 43.561	1.482	99	1	2962	0.20	* 51.389	41.343	* 14.5	-4	0	0.3	4/0	2271	7E+05
* 29/03 12H17	12H25	* S04	16	* 43.560	1.480	99	1	2964	0.09	* 48.719	-24.479	* 9.7	4	0	0.2	4/0	2271	7E+05
* 29/03 12H17	14H00	* S04	17	* 43.560	1.481	99	1	2964	0.11	* 48.699	-24.462	* 9.7	-4	0	0.2	4/0	2272	7E+05
* 29/03 12H17	22H12	* S04	17	* 43.560	1.480	99	1	2964	0.05	* 48.698	-24.468	* 9.7	-4	0	0.2	4/0	2271	7E+05
* 29/03 12H51	12H56	* S09	10	* 43.567	1.485	96	2	2967	0.86	* 55.611	-62.151	* 21.7	-4	0	1.0	4/0	2271	7E+05
* 29/03 12H51	19H22	* S09	10	* 43.567	1.485	96	2	2967	0.92	* 55.609	-62.161	* 21.7	-4	0	1.0	4/0	2272	7E+05
* 29/03 12H51	21H03	* S09	10	* 43.566	1.483	96	2	2967	0.78	* 55.607	-62.158	* 21.7	-4	0	1.0	4/0	2271	7E+05
* 29/03 13H35	13H44	* S08	17	* 43.558	1.472	98	1	2963	0.59	* 42.024	-6.155	* 2.7	4	0	0.2	4/0	2271	7E+05
* 29/03 13H35	15H23	* S08	18	* 43.558	1.473	98	1	2963	0.56	* 42.018	-6.156	* 2.7	-4	0	0.1	4/0	2271	7E+05
* 29/03 13H55	14H00	* S04	8	* 43.561	1.476	90	4	2963	0.31	* 57.603	-74.072	* 24.9	4	0	2.5	4/0	2272	7E+05
* 29/03 13H55	20H30	* S04	8	* 43.563	1.472	90	4	2963	0.73	* 57.600	-74.080	* 24.9	-4	0	2.5	4/0	2272	7E+05
* 29/03 13H55	22H12	* S04	8	* 43.563	1.470	90	4	2963	0.83	* 57.599	-74.078	* 24.9	-4	0	2.5	4/0	2271	7E+05
* 29/03 15H17	15H23	* S08	12	* 43.558	1.481	98	1	2964	0.21	* 32.209	-53.439	* 21.2	4	0	0.4	4/0	2271	7E+05
* 29/03 15H17	00H19	* S08	13	* 43.562	1.482	98	1	2963	0.32	* 32.146	-53.415	* 21.2	-4	0	0.4	4/0	2271	7E+05
* 29/03 16H03	16H09	* S07	10	* 43.558	1.474	96	2	2965	0.50	* 55.194	64.500	* 21.6	4	0	0.9	4/0	2272	7E+05
* 29/03 16H03	17H50	* S07	10	* 43.558	1.476	96	2	2965	0.31	* 55.193	64.503	* 21.6	-4	0	0.9	4/0	2271	7E+05
* 29/03 16H07	18H04	* C04	2	*	*	*	*	0	*	*	*	*	-4	9	*	*	2272	7E+05
* 29/03 16H09	16H18	* C04	3	* 43.562	1.485	50	46	2964	0.46	* 40.722	35.661	* 13.1	4	1	0.0	1/0	2271	7E+05
* 29/03 16H54	17H02	* S06	17	* 43.561	1.485	98	1	2963	0.44	* 50.269	34.625	* 12.2	4	0	0.4	4/0	2271	7E+05
* 29/03 17H42	17H50	* S07	17	* 43.560	1.481	98	1	2966	0.14	* 46.361	16.046	* 5.6	4	0	0.2	4/0	2271	7E+05
* 29/03 17H42	19H30	* S07	17	* 43.560	1.481	98	1	2966	0.11	* 46.360	16.044	* 5.6	-4	0	0.2	4/0	2271	7E+05
* 29/03 17H54	18H04	* C04	12	* 43.555	1.480	99	1	2966	0.55	* 44.976	-15.797	* 5.9	4	0	0.2	4/0	2272	7E+05
* 29/03 17H54	03H13	* C04	13	* 43.560	1.480	99	1	2966	0.07	* 44.960	-15.809	* 5.9	-4	0	0.2	4/0	2271	7E+05
* 29/03 17H54	06H41	* C04	12	* 43.560	1.479	99	1	2966	0.03	* 44.952	-15.843	* 5.9	-4	0	0.2	4/0	2272	7E+05
* 29/03 18H34	18H43	* S06	19	* 43.559	1.475	96	1	2966	0.39	* 40.627	-12.619	* 5.2	4	0	0.4	4/0	2271	7E+05
* 29/03 19H16	19H22	* S09	10	* 43.560	1.478	98	1	2968	0.15	* 55.880	67.413	* 22.4	4	0	0.6	4/0	2272	7E+05
* 29/03 19H16	21H03	* S09	10	* 43.561	1.477	98	1	2967	0.22	* 55.884	67.413	* 22.4	-4	0	0.6	4/0	2271	7E+05
* 29/03 19H16	22H43	* S09	10	* 43.558	1.477	98	1	2968	0.22	* 55.881	67.412	* 22.4	-4	0	0.6	4/0	2272	7E+05
* 29/03 19H22	19H30	* S07	16	* 43.559	1.476	99	1	2968	0.30	* 37.068	-31.221	* 12.4	4	0	0.2	4/0	2271	7E+05
* 29/03 19H22	06H03	* S07	16	* 43.560	1.477	99	1	2968	0.19	* 37.069	-31.222	* 12.4	-4	0	0.2	4/0	2271	7E+05
* 29/03 19H42	03H13	* C04	11	* 43.560	1.478	97	1	2968	0.13	* 48.476	-72.074	* 23.5	-4	0	0.6	4/0	2271	7E+05
* 29/03 19H42	06H41	* C04	11	* 43.561	1.474	97	1	2968	0.43	* 48.474	-72.073	* 23.5	-4	0	0.6	4/0	2272	7E+05
* 29/03 20H16	20H21	* S06	10	* 43.567	1.471	91	2	2964	1.03	* 30.636	-59.491	* 23.6	4	0	1.5	4/0	2271	7E+05
* 29/03 20H23	20H30	* S04	14	* 43.556	1.482	98	1	2969	0.52	* 53.557	53.519	* 18.3	4	0	0.4	4/0	2272	7E+05
* 29/03 20H23	22H12	* S04	14	* 43.556	1.481	98</												

* TCA	IPC	* SL	PTS	* LATI	LONGI	PB	MAJ	BIAS	ERR	* LAT2	LONG2	* CTA	FB	WF	SDV	CF	SRCE	MCCN
* 29/03 22H35	18H59	* S09	16	* 43.562	1.479	99	1	2967	0.23	* 37.532	-28.370	* 11.3	-4	0	0.2	4/0	2272	7E+05
* 29/03 23H44	23H51	* S04	15	* 43.559	1.478	99	1	2967	0.16	* 34.674	-41.711	* 16.5	4	0	0.3	4/0	2271	7E+05
* 29/03 23H44	10H31	* S04	15	* 43.562	1.481	99	1	2967	0.27	* 34.678	-41.712	* 16.5	-4	0	0.3	4/0	2272	7E+05
* 29/03 23H44	21H58	* S04	15	* 43.562	1.481	99	1	2967	0.28	* 34.678	-41.713	* 16.5	-4	0	0.3	4/0	2271	7E+05
* 30/03 00H14	00H19	* S08	9	* 43.560	1.483	95	2	2966	0.26	* 30.647	64.163	* 24.2	4	0	0.9	4/0	2271	7E+05
* 30/03 00H14	02H04	* S08	9	* 43.559	1.484	95	2	2966	0.41	* 30.644	64.160	* 24.2	-4	0	0.9	4/0	2271	7E+05
* 30/03 01H16	03H13	* C04	1	*				0		*		*	-4	9.			2271	7E+05
* 30/03 01H16	06H41	* C04	1	*				0		*		*	-4	9.			2272	7E+05
* 30/03 01H56	02H04	* S08	17	* 43.559	1.482	99	1	2967	0.23	* 40.413	16.995	* 5.7	4	0	0.1	4/0	2271	7E+05
* 30/03 01H56	03H44	* S08	17	* 43.559	1.483	99	1	2967	0.31	* 40.413	16.992	* 5.7	-4	0	0.1	4/0	2271	7E+05
* 30/03 03H04	03H13	* C04	7	* 43.559	1.479	99	1	2967	0.11	* 46.541	43.297	* 14.0	4	0	0.3	4/0	2271	7E+05
* 30/03 03H04	05H00	* C04	7	* 43.557	1.481	99	1	2967	0.32	* 46.537	43.299	* 14.0	-4	0	0.3	4/0	2271	7E+05
* 30/03 03H04	06H41	* C04	7	* 43.558	1.479	99	1	2967	0.04	* 46.540	43.301	* 14.0	-4	0	0.3	4/0	2272	7E+05
* 30/03 03H36	03H44	* S08	17	* 43.559	1.473	95	2	2965	0.55	* 49.870	-30.427	* 11.8	4	0	1.2	4/0	2271	7E+05
* 30/03 03H36	05H19	* S08	17	* 43.560	1.478	99	1	2967	0.11	* 49.872	-30.432	* 11.8	-4	0	0.2	4/0	2271	7E+05
* 30/03 04H50	05H00	* C04	11	* 43.558	1.473	99	1	2966	0.52	* 42.630	-10.407	* 4.7	4	0	0.1	4/0	2271	7E+05
* 30/03 04H50	06H41	* C04	11	* 43.558	1.475	99	1	2966	0.37	* 42.630	-10.407	* 4.7	-4	0	0.1	4/0	2272	7E+05
* 30/03 05H15	05H19	* S08	6	* 43.566	1.488	80	6	2970	0.96	* 58.714	-80.839	* 26.5	4	0	4.9	4/0	2271	7E+05
* 30/03 05H15	11H51	* S08	6	* 43.568	1.484	80	6	2970	1.02	* 58.709	-80.844	* 26.5	-4	0	4.9	4/0	2271	7E+05
* 30/03 05H56	06H03	* S07	15	* 43.560	1.480	99	1	2967	0.06	* 35.739	40.943	* 15.0	4	0	0.2	4/0	2271	7E+05
* 30/03 06H34	06H41	* C04	10	* 43.554	1.473	98	1	2965	0.89	* 39.443	-59.707	* 23.6	4	0	0.5	4/0	2272	7E+05
* 30/03 06H54	07H03	* S06	15	* 43.557	1.482	94	2	2963	0.38	* 41.440	11.838	* 3.8	4	0	0.5	4/0	2271	7E+05
* 30/03 07H36	07H45	* S07	18	* 43.561	1.472	99	1	2963	0.57	* 45.064	-6.331	* 3.1	4	0	0.1	4/0	2271	7E+05
* 30/03 07H36	09H21	* S07	18	* 43.561	1.471	98	1	2963	0.68	* 45.063	-6.328	* 3.1	-4	0	0.1	4/0	2272	7E+05
* 30/03 07H36	15H45	* S07	18	* 43.560	1.473	99	1	2963	0.53	* 45.064	-6.336	* 3.1	-4	0	0.1	4/0	2271	7E+05
* 30/03 08H34	08H42	* S06	15	* 43.560	1.475	98	1	2961	0.35	* 51.007	-35.457	* 13.5	4	0	0.5	4/0	2271	7E+05
* 30/03 09H09	09H16	* S09	15	* 43.560	1.482	99	1	2963	0.21	* 34.919	44.174	* 16.3	4	0	0.2	4/0	2271	7E+05
* 30/03 09H09	10H58	* S09	15	* 43.561	1.481	99	1	2963	0.22	* 34.919	44.173	* 16.3	-4	0	0.2	4/0	2271	7E+05
* 30/03 09H09	18H59	* S09	15	* 43.560	1.481	99	1	2964	0.11	* 34.919	44.177	* 16.3	-4	0	0.2	4/0	2272	7E+05
* 30/03 09H15	09H21	* S07	12	* 43.562	1.478	98	1	2963	0.25	* 53.984	-54.331	* 19.5	4	0	0.5	4/0	2272	7E+05
* 30/03 09H15	15H45	* S07	13	* 43.561	1.474	98	1	2962	0.45	* 53.926	-54.265	* 19.5	-4	0	0.6	4/0	2271	7E+05
* 30/03 10H22	10H31	* S04	16	* 43.559	1.479	99	1	2960	0.13	* 37.850	29.429	* 10.6	4	0	0.2	4/0	2272	7E+05
* 30/03 10H22	21H58	* S04	16	* 43.559	1.477	99	1	2960	0.20	* 37.853	29.425	* 10.6	-4	0	0.2	4/0	2271	7E+05
* 30/03 10H49	10H58	* S09	18	* 43.562	1.466	98	1	2961	1.08	* 44.436	-2.976	* 1.8	4	0	0.1	4/0	2271	7E+05
* 30/03 10H49	12H35	* S09	18	* 43.562	1.466	98	1	2961	1.12	* 44.436	-2.974	* 1.8	-4	0	0.1	4/0	2272	7E+05
* 30/03 10H49	18H59	* S09	18	* 43.560	1.476	98	1	2961	0.29	* 44.438	-2.989	* 1.8	-4	0	0.1	4/0	2272	7E+05
* 30/03 11H44	11H51	* S08	12	* 43.562	1.479	99	1	2961	0.29	* 52.414	46.927	* 16.3	4	0	0.3	4/0	2271	7E+05
* 30/03 11H44	13H33	* S08	12	* 43.562	1.479	99	1	2961	0.20	* 52.414	46.927	* 16.3	-4	0	0.3	4/0	2271	7E+05
* 30/03 12H03	12H11	* S04	17	* 43.560	1.476	99	1	2961	0.30	* 47.400	-17.928	* 7.4	4	0	0.2	4/0	2272	7E+05
* 30/03 12H03	20H16	* S04	17	* 43.560	1.475	99	1	2961	0.37	* 47.400	-17.933	* 7.4	-4	0	0.2	4/0	2272	7E+05
* 30/03 12H03	21H58	* S04	17	* 43.560	1.477	99	1	2961	0.22	* 47.401	-17.933	* 7.4	-4	0	0.2	4/0	2271	7E+05
* 30/03 12H29	12H35	* S09	13	* 43.559	1.476	98	1	2961	0.26	* 53.540	-50.716	* 18.4	4	0	0.4	4/0	2271	7E+05
* 30/03 12H29	18H59	* S09	13	* 43.560	1.479	98	1	2962	0.06	* 53.537	-50.722	* 18.4	-4	0	0.4	4/0	2272	7E+05
* 30/03 12H29	20H40	* S09	13	* 43.559	1.476	98	1	2961	0.29	* 53.536	-50.720	* 18.4	-4	0	0.4	4/0	2271	7E+05
* 30/03 13H24	13H33	* S08	14	* 43.556	1.453	85	3	2961	2.17	* 43.119	-0.759	* 0.7	4	0	0.3	4/0	2271	7E+05
* 30/03 13H24	15H12	* S08	19	* 43.556	1.457	50	3	2961	1.82	* 43.179	-0.392	* 0.7	-4	0	0.2	4/0	2271	7E+05
* 30/03 13H42	20H16	* S04	10	* 43.565	1.474	96	2	2962	0.68	* 56.458	-66.908	* 23.0	-4	0	0.9	4/0	2272	7E+05
* 30/03 13H42	21H58	* S04	10	* 43.565	1.480	96	2	2962	0.57	* 56.460	-66.906	* 23.0	-4	0	0.9	4/0	2271	7E+05
* 30/03 14H53	14H59	* C04	3	* 45.044	-1.155	50	45	2253	267.01	* 39.413	68.559	* 26.9	4	12	55.0	1/0	2272	7E+05
* 30/03 15H05	15H12	* S08	14	* 43.559	1.476	98	1	2962	0.31	* 33.236	-48.174	* 19.1	4	0	0.4	4/0	2271	7E+05
* 30/03 15H05	00H06	* S08	14	* 43.561	1.477	98	1	2963	0.24	* 33.238	-48.176	* 19.1	-4	0	0.4	4/0	2271	7E+05
* 30/03 15H40	15H45	* S07	6	* 43.564	1.480	83	5	2961	0.47	* 57.121	76.530	* 24.8	4	0	3.6	4/0	2271	7E+05
* 30/03 16H37	16H47	* C04	5	* 43.560	1.480	97	1	2962	0.03	* 42.265	18.993	* 6.8	4	0	0.6	4/0	2272	7E+05
* 30/03 16H37	18H32	* C04	5	* 43.560	1.480	97	1	2962	0.02	* 42.265	18.993	* 6.8	-4	0	0.6	4/0	2272	7E+05
* 30/03 16H41	16H49	* S06	14	* 43.558	1.483	99	1	2964	0.35	* 51.451	40.800	* 14.3	4	0	0.3	4/0	2271	7E+05
* 30/03 17H18	17H27	* S07	17	* 43.561	1.480	99	1	2963	0.12	* 48.447	27.088	* 9.6	4	0	0.1	4/0	2271	7E+05
* 30/03 18H21	18H30	* S06	18	* 43.557	1.480	94	2	2966	0.32	* 41.887	-6.589	* 2.9	4	0	0.4	4/0	2271	7E+05
* 30/03 18H23	18H32	* C04	14	* 43.560	1.477	99	1	2966	0.21	* 46.383	-33.927	* 12.0	4	0	0.1	4/0	2272	7E+05
* 30/03 18H23	03H43	* C04	15	* 43.565	1.477	99	1	2966	0.64	* 46.345	-33.954	* 12.0	-4	0	0.1	4/0	2272	7E+05
* 30/03 18H54	18H59	* S09	8	* 43.559	1.484	94	2	2967	0.39	* 57.675	78.946	* 25.4	4	0	1.5	4/0	2272	7E+05
* 30/03 18H54	20H40	* S09	8	* 43.562	1.484	94	2	2966	0.44	* 57.678	78.948	* 25.4	-4	0	1.5	4/0	2271	7E+05
* 30/03 18H54	22H21	* S09	8	* 43.560	1.484	94	2	2967	0.40	* 57.676	78.945	* 25.4	-4	0	1.5	4/0	2272	7E+05
* 30/03 18H58	19H07	* S07	18	* 43.561	1.478	97	1	2965	0.21	* 39.307	-20.178	* 8.1	4	0	0.5	4/0	2271	7E+05
* 30/03 18H58	20H43	* S07	18	* 43.563	1.480	97	1	2964	0.31	* 39.308	-20.179	* 8.1	-4	0	0.5	4/0	2272	7E+05
* 30/03 18H58	05H39	* S07	18	* 43.567	1.481	97	1	2965	0.81	* 39.312	-20.180	* 8.1	-4	0	0.5	4/0	2271	7E+05
* 30/03 20H03	20H09	* S06	11	* 43.562	1.477	97	1	2964	0.30	* 31.877	-53.554	* 21.3	4	0	0.6	4/0	2271	7E+05
* 30/03 20H10	20H16	* S04	10	* 43.561	1.478	98	1	2966	0.18	* 54.890	60.528	* 20.4	4	0	0.4	4/0	2272	7E+05
* 30/03 20H10	21H58	* S04	10	* 43.558	1.481	98	1	2966	0.26	* 54.889	60.528	* 20.4						

* TCA	TPC	* SL	PTS	* LAT1	LONG1	PB	MAJ	BIAS	ERR	* LAT2	LONG2	* CTA	FB	WF	SDV	CF	SRCE	MCCN	
* 30/03	21H49	21H58	* S04	18	* 43.560	1.484	97	1	2966	0.35	* 45.685	12.149	* 4.2	4	0	0.3	4/0	2271	7E+05
* 30/03	22H12	22H21	* S09	17	* 43.559	1.477	98	1	2967	0.22	* 39.725	-17.692	* 7.1	4	0	0.2	4/0	2272	7E+05
* 30/03	22H12	23H58	* S09	17	* 43.559	1.477	99	1	2967	0.19	* 39.726	-17.691	* 7.1	-4	0	0.2	4/0	2272	7E+05
* 30/03	23H30	23H38	* S04	16	* 43.557	1.478	99	1	2966	0.33	* 36.000	-35.188	* 14.0	4	0	0.3	4/0	2271	7E+05
* 30/03	23H54	23H58	* S09	2	* .....	.....	..	...	0	.....	.....	* .....	.....	.....	.....	.....	.....	.....	.....
* 31/03	00H02	00H06	* S08	4	* 43.539	1.490	95	2	2958	2.51	* 29.611	69.389	* 26.3	4	0	1.5	4/0	2271	7E+05
* 31/03	00H02	01H53	* S08	4	* 43.538	1.492	95	2	2958	2.59	* 29.609	69.386	* 26.3	-4	0	1.5	4/0	2271	7E+05
* 31/03	01H45	01H53	* S08	17	* 43.560	1.478	97	1	2968	0.12	* 39.313	22.315	* 7.8	4	0	0.5	4/0	2271	7E+05
* 31/03	01H45	03H34	* S08	17	* 43.560	1.479	97	1	2968	0.04	* 39.314	22.312	* 7.8	-4	0	0.5	4/0	2271	7E+05
* 31/03	01H47	03H43	* C04	2	* .....	.....	..	...	0	.....	.....	* .....	.....	.....	.....	.....	.....	.....	.....
* 31/03	03H25	03H34	* S08	17	* 43.559	1.479	99	1	2967	0.08	* 48.834	-25.105	* 9.9	4	0	0.2	4/0	2271	7E+05
* 31/03	03H33	03H43	* C04	9	* 43.559	1.480	99	1	2967	0.08	* 45.486	24.838	* 8.0	4	0	0.3	4/0	2272	7E+05
* 31/03	03H33	05H27	* C04	9	* 43.558	1.480	99	1	2967	0.18	* 45.484	24.845	* 8.0	-4	0	0.3	4/0	2272	7E+05
* 31/03	05H03	05H05	* S06	1	* .....	.....	..	...	0	.....	.....	* .....	.....	.....	.....	.....	.....	.....	.....
* 31/03	05H18	05H27	* C04	11	* 43.560	1.475	99	1	2967	0.33	* 41.365	-26.977	* 11.0	4	0	0.2	4/0	2272	7E+05
* 31/03	05H32	05H39	* S07	13	* 43.562	1.482	98	1	2968	0.27	* 33.559	51.918	* 19.3	4	0	0.3	4/0	2271	7E+05
* 31/03	05H32	07H21	* S07	13	* 43.561	1.483	98	1	2967	0.30	* 33.560	51.914	* 19.3	-4	0	0.3	4/0	2272	7E+05
* 31/03	06H41	06H50	* S06	17	* 43.559	1.486	96	2	2963	0.52	* 40.163	17.972	* 6.1	4	0	0.6	4/0	2271	7E+05
* 31/03	07H13	07H21	* S07	18	* 43.557	1.497	91	2	2960	1.50	* 42.941	4.669	* 1.0	-4	0	0.3	4/0	2272	7E+05
* 31/03	07H13	08H59	* S07	18	* 43.556	1.498	91	2	2960	1.59	* 42.942	4.665	* 1.0	-4	0	0.3	4/0	2272	7E+05
* 31/03	08H22	08H30	* S06	15	* 43.562	1.476	98	1	2956	0.31	* 49.826	-29.385	* 11.4	4	0	0.5	4/0	2271	7E+05
* 31/03	08H52	08H59	* S07	14	* 43.560	1.478	99	1	2956	0.13	* 51.894	-42.784	* 15.9	4	0	0.2	4/0	2272	7E+05

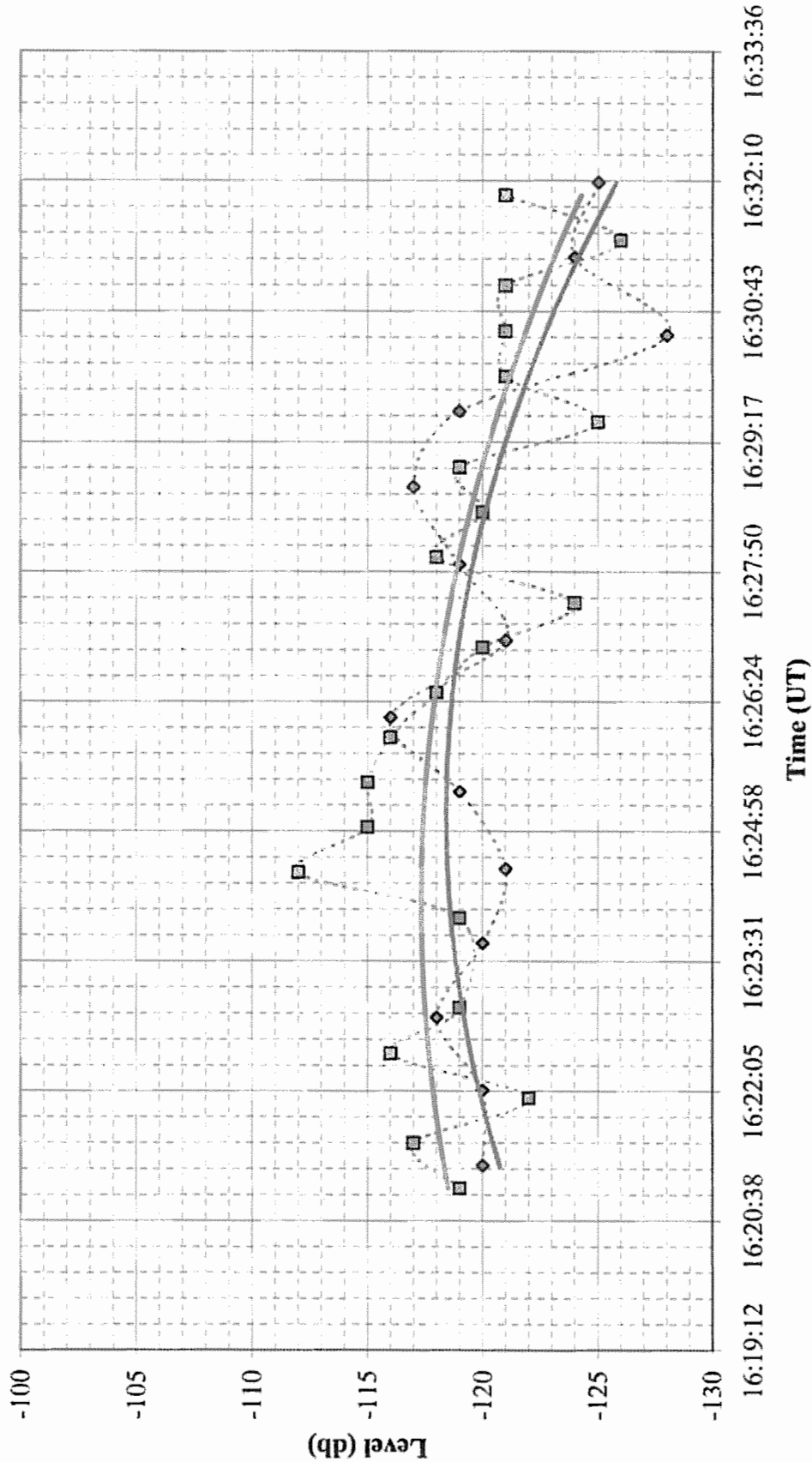
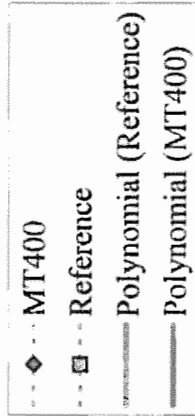
Zones géographiques BORDE/MARSA numero de dossier xxx  
 Nombre total de lignes (localisées + détectées) : 219 + 9 = 228  
 Nombre de localisées : 219  
 Nombre de balises-passage : 117  
 Nombre de localisations uniques : 112  
 Date première loc : 28/03/2003 08:59  
 Date dernière loc : 31/03/2003 08:52  
 Durée de l'émission : 71H 52mn  
 Référence pour calcul des erreurs : lat=+43.560 long= +1.479

Date	U. T.	MT400 N° : C204 Message	MT400 Level (db)	Sarsat Sat
2003/03/28	16:21:15,2	5f7f03c480000009c00400	-120	S7
2003/03/28	16:22:05,3	5f7f03c480000009c00400	-120	S7
2003/03/28	16:22:53,9	5f7f03c480000009c00400	-118	S7
2003/03/28	16:23:43,2	5f7f03c480000009c00400	-120	S7
2003/03/28	16:24:32,6	5f7f03c480000009c00400	-121	S7
2003/03/28	16:25:24,0	5f7f03c480000009c00400	-119	S7
2003/03/28	16:26:13,5	5f7f03c480000009c00400	-116	S7
2003/03/28	16:27:04,9	5f7f03c480000009c00400	-121	S7
2003/03/28	16:27:55,4	5f7f03c480000009c00400	-119	S7
2003/03/28	16:28:47,1	5f7f03c480000009c00400	-117	S7
2003/03/28	16:29:37,2	5f7f03c480000009c00400	-119	S7
2003/03/28	16:30:27,6	5f7f03c480000009c00400	-128	S7
2003/03/28	16:31:19,0	5f7f03c480000009c00400	-124	S7
2003/03/28	16:32:08,5	5f7f03c480000009c00400	-125	S7

Date	U. T.	Datation Ref Message	Reference Level (db)	Sarsat Sat
2003/03/28	16:21:00,3	ce300000000000dbd0e40 0	-119	S7
2003/03/28	16:21:30,3	ce300000000000dbd0e40 0	-117	S7
2003/03/28	16:22:00,3	ce300000000000dbd0e40 0	-122	S7
2003/03/28	16:22:30,3	ce300000000000dbd0e40 0	-116	S7
2003/03/28	16:23:00,3	ce300000000000dbd0e40 0	-119	S7
2003/03/28	16:24:00,3	ce300000000000dbd0e40 0	-119	S7
2003/03/28	16:24:30,3	ce300000000000dbd0e40 0	-112	S7
2003/03/28	16:25:00,3	ce300000000000dbd0e40 0	-115	S7
2003/03/28	16:25:30,3	ce300000000000dbd0e40 0	-115	S7
2003/03/28	16:26:00,3	ce300000000000dbd0e40 0	-116	S7
2003/03/28	16:26:30,3	ce300000000000dbd0e40 0	-118	S7
2003/03/28	16:27:00,3	ce300000000000dbd0e40 0	-120	S7
2003/03/28	16:27:30,3	ce300000000000dbd0e40 0	-124	S7
2003/03/28	16:28:00,3	ce300000000000dbd0e40 0	-118	S7
2003/03/28	16:28:30,3	ce300000000000dbd0e40 0	-120	S7
2003/03/28	16:29:00,3	ce300000000000dbd0e40 0	-119	S7
2003/03/28	16:29:30,3	ce300000000000dbd0e40 0	-125	S7
2003/03/28	16:30:00,3	ce300000000000dbd0e40 0	-121	S7
2003/03/28	16:30:30,3	ce300000000000dbd0e40 0	-121	S7
28/03/2003	16:31:00,3	ce300000000000dbd0e40 0	-121	S7
28/03/2003	16:31:30,3	ce300000000000dbd0e40 0	-126	S7
28/03/2003	16:32:00,3	ce300000000000dbd0e40 0	-121	S7



### Level comparative Satellite



2003/03/28

**ANNEX A**

**ANTENNA TEST RESULTS ON  
MT460 STANDARD COMMUNICATIONS PTY. LTD. EPIRB  
N° C293**

**Note : These tests are out of Cofrac Accreditation Scope**

**ANNEX A**

**ANTENNA TEST RESULTS ON  
MT400 STANDARD COMMUNICATIONS PTY. LTD. EPIRB  
N° C203**

**OBSOLETE**



**4 - TEST SITE DESCRIPTION**

Tests are performed in an anechoic chamber (size 16 m x 10 m x 11 m)

Walls, ceiling and doors are lined with EMERSON CUMING foams VHP 36 and VHP 26 type.

The EPIRB is placed as shown on figure N° 1 and N° 2.

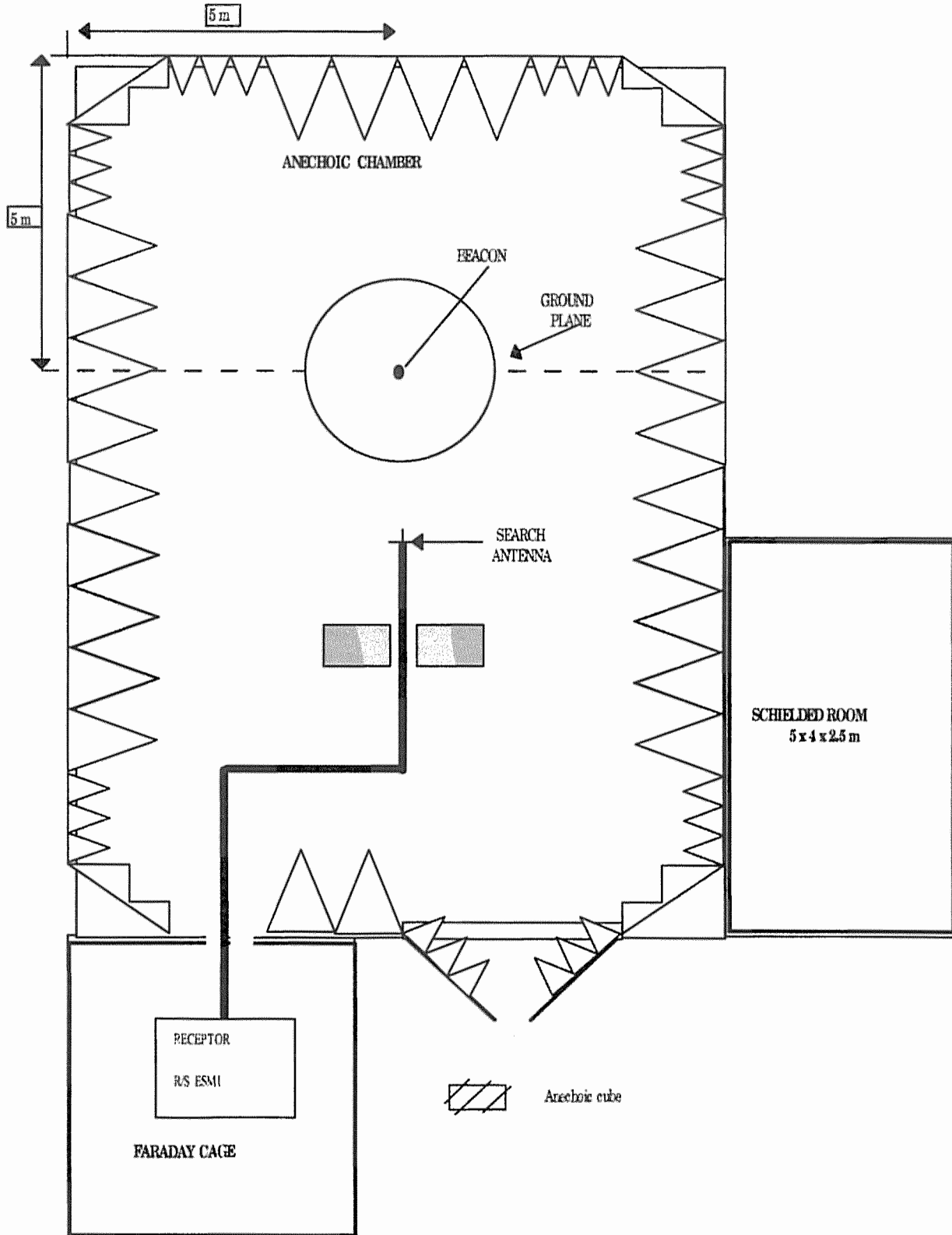


FIGURE 1

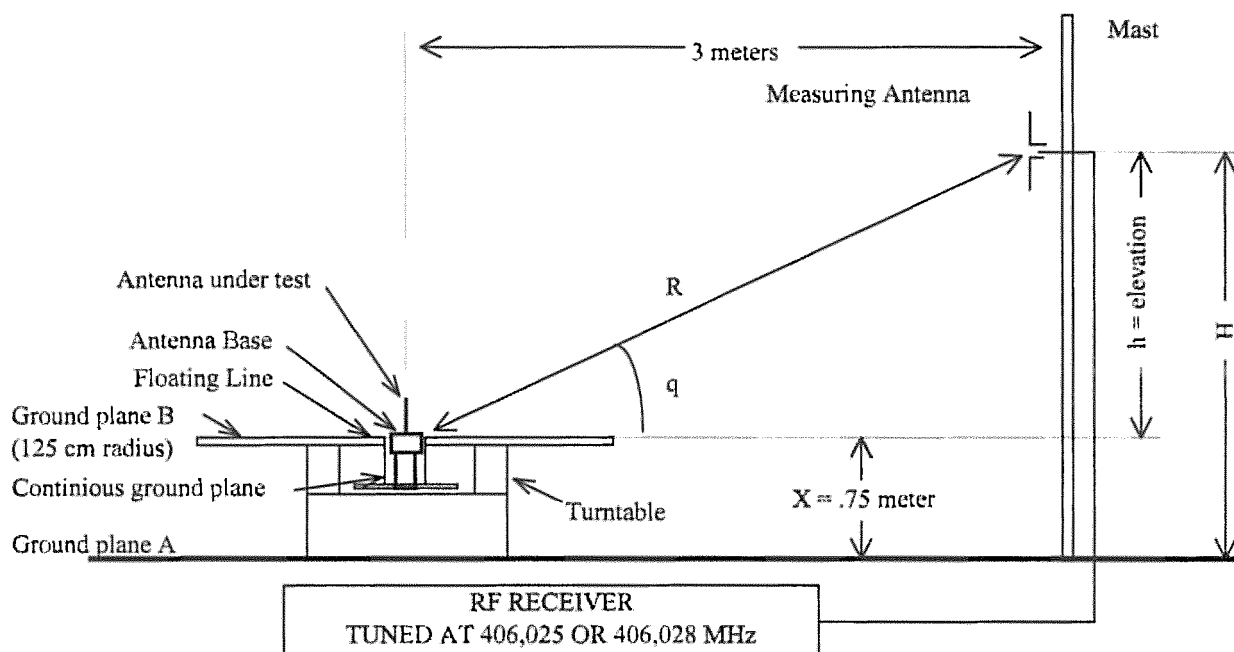


FIGURE B2c : Equipement Test Set Up For BEACON Antenna Test  
(For BEACON designed for normal operation in water, ex: EPIRB)

## 5 - TEST METHOD

The test method describes here after, according to "C/S T 007 - Issue 3 -Revision 9 - October 2002 " test sequences is executed for 406 MHz frequency .

Following measurements are performed :

- 1/ Electrical ground plane of 1.25 m of radius is placed at flotation level of the beacon.
- 2/ EPIRB transmitting antenna polarization is determined prior to test.
- 3/ Determination of E field strength in term of  $\text{dB}\mu\text{V}/\text{m}$  at 3 m far from the EPIRB for all direction ( $0^\circ$  to  $360^\circ$  by step of  $30^\circ$ ) and for search antenna elevation ( $10^\circ$  to  $50^\circ$ ). Search antenna is left in vertical and horizontal position for all elevations . Lenght of search antenna is adjusted to proper  $1/2 \lambda$  conditions .
- 4/ An ERP (Equivalent Radiated Power) from the PLB is calculated
- 5/ ERP is corrected with  $\text{ERP}_{\text{Loss}}$  factor (end of life factor)
- 6/ Actual ERP are compared to specified ERP to be in the range 1.6 W to 20 W (+ 32 dBm to + 43 dBm).

## 6 - TESTS EQUIPMENTS

### 6.1. SEARCH ANTENNA

- 406 MHz test : EMCO Ref 3121 C- DB4 Dipole antenna
- Serial number : S/N 9109-763
- Calibration validity : juin-02

### 6.2. SPECTRUM ANALYSER

- R/S ESMI

### 6.3. CABLES

- 20 m cable SUCOFLEX type 100 - cable loss at 406 MHz is : 3,5 dB

## 7 - TESTS OPERATIONS

### 7.1. EMISSION FIELD STRENGTH FROM EPIRB

The electrical field intensity is measured with the following antenna :

- EMCO 3121 C - DB4 - SN- 763

EPIRB electric field strength is obtained from measurement of the output voltage (dB $\mu$ V RMS) at antenna port (typical set up are shown figure N° 3 for 406 MHz) and computed with following parameters :

- Antenna factor of search antenna AF in dB (manufacturer calibration)
- Directivity factor of the antenna Dm in dB (Theoretical directivity shown paragraph B-5-4 of C/S T007) as :

$$D_m = 20 \log [ \cos (90 \times \sin q) / \cos q ]$$

- Cable loss L = 3,5 dB at 406 MHz
- DF : distance factor in dB - To calculate field at a constant distance (3 m) from EPIRB due to the elevation of the search antenna.
- Power correction factor : end of life correction factor  $ERP_{Loss}$  is calculated from the difference between RF power measured during test and end of life power after 24 hours operation at min. Temp. This factor is applied to correct ERP as shown on final test result table
- The measurements are performed on the carrier signal, just before to apply the modulation.
- The effective field strength at 3 m from EPIRB is computed from :

$$Ed_{\mu V/m} = Ud_{\mu V} + AF + L + DF$$

$$\text{Where : } Ud_{\mu V} = 20 \log (\text{Cor} V_v^2 + V_h^2)^{1/2}$$

CorVv = Induced voltage with search antenna in vertical polar corrected by Dm

Vh = Induced voltage with search antenna in horizontal polar



## 7.2. POWER CORRECTION FACTORS

### EOL factor

TEST FREQUENCY	RF Power measured at Ambient Temp. Test	RF Power measured at the end of Operating Lifetime Test	Loss Factor ERP <sub>LOSS</sub>
406 MHz	36,1 dBm	36,6 dBm	-0,5 dB

The ERP<sub>LOSS</sub> loss factor is rounded to : 0,0 dB

## 8 - RADIATED POWER CALCULATIONS

### 8.1. EFFECTIVE RADIATED POWER OF EPIRB

ERP of EPIRB is directly calculated from equation :

$$ERP = E^2 \times D^2 / 30$$

$$ERP = W$$

$$E = V/m$$

$$D = m$$

Results shown in table N° C1 are given in dBm where :

$$ERP \text{ dBm} = 10 \log (ERP \text{ W}) + 30$$

and apparent antenna gain :

$$GidB = ERPdBm - RF \text{ PowerdBm}$$

## 9 - SUCCESS CRITERIA

90% of EPIRB measurements must be equal or greater than 1,6 W ERP (32 dBm) .  
 and less than 20 W ERP (43 dBm)

## 10 - EPIRB ANTENNA POLARIZATION

EPIRB antenna polarization is checked according to C/S T007 procedure paragraph B9 EPIRB antenna polarization is declared vertical when measurement obtained with vertical polarization search antenna are 10 dB greater or more than measurement obtained with

Antenna model	Angle Azi / Elev	Vertical measurement dB $\mu$ V	Horizontal measurement dB $\mu$ V	$\Delta$	Antenna Polarization
	0°/10°	109,9	79,3	30,5	Vertical

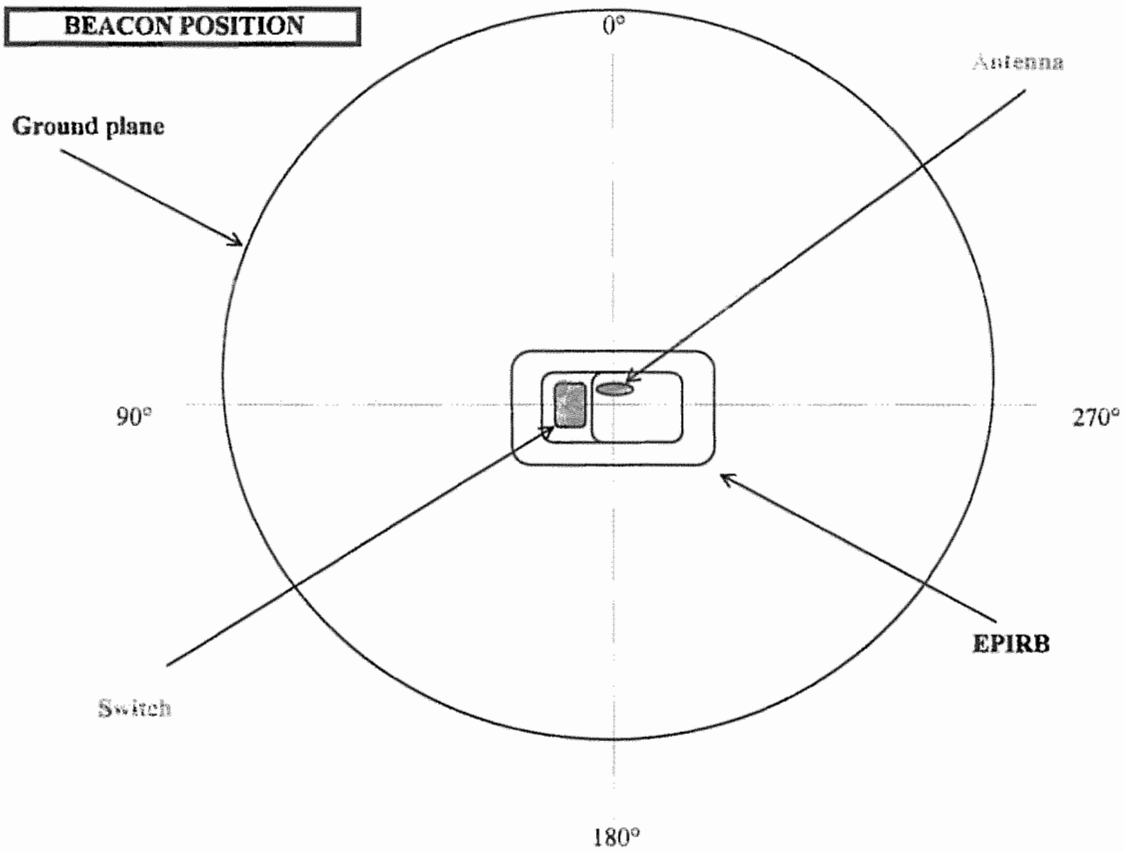


$V_{v,rec} - V_{h,rec} \leq \pm 10 \text{ dB}$ 

AZIMUTH (degrés)	40							50						
	Tension dBμV				Champ dBμV/m	Tension dBμV				Champ dBμV/m				
	$V_{v,rec}$	Cor $V_{v,rec}$	$V_{h,rec}$	Ecart		$V_{v,rec}$	Cor $V_{v,rec}$	$V_{h,rec}$	Ecart		$V_{v,rec}$	Cor $V_{v,rec}$	$V_{h,rec}$	Ecart
0	106,0	109,2	76,3	32,8	136,0	101,1	88,0	13,1	129,6	101,1	88,0	13,1	129,6	
30	106,0	109,2	78,0	31,2	136,0	101,4	89,2	12,2	130,0	101,4	89,2	12,2	130,0	
60	106,0	109,2	82,7	26,5	136,0	101,1	90,8	10,2	129,8	101,1	90,8	10,2	129,8	
90	105,8	109,0	81,3	27,7	135,8	101,1	91,2	9,9	129,8	101,1	91,2	9,9	129,8	
120	106,0	109,2	77,5	31,7	136,0	101,2	90,7	10,6	129,9	101,2	90,7	10,6	129,9	
150	106,0	109,2	77,5	31,7	136,0	101,6	90,5	11,1	130,2	101,6	90,5	11,1	130,2	
180	106,0	109,2	76,3	32,8	136,0	101,6	90,3	11,2	130,2	101,6	90,3	11,2	130,2	
210	105,8	109,0	76,7	32,3	135,8	101,2	90,5	10,7	129,9	101,2	90,5	10,7	129,9	
240	105,7	108,8	75,5	33,3	135,7	100,9	90,3	10,6	129,6	100,9	90,3	10,6	129,6	
270	105,5	108,7	72,8	35,8	135,5	100,7	89,3	11,4	129,4	100,7	89,3	11,4	129,4	
300	105,8	109,0	64,2	44,8	135,8	100,7	88,0	12,7	129,3	100,7	88,0	12,7	129,3	
330	106,0	109,2	72,8	36,3	136,0	100,9	86,5	14,4	129,4	100,9	86,5	14,4	129,4	
360	106,0	109,2	76,0	33,2	136,0	101,2	88,0	13,2	129,8	101,2	88,0	13,2	129,8	
Champ moyen	105,9	109,1	76,0	33,1	135,9	101,1	89,5	11,6	129,8	101,1	89,5	11,6	129,8	

**11 - EPIRB MECHANICAL SET UP**

EPIRB 0° axis is identified with 0° azimuth direction of turn table .  
Antenna is the center of rotation of azimuth angle.



NOT TO SCALE

**12 - RESULTS**

Test frequency	Polarization	Reference ERP	Measurement ERP
406 MHz	Vertical	1.6 W < ERP Ref < 20 W 32 dBm < ERP Ref < 43 dBm	According table C1

**CONCLUSIONS**

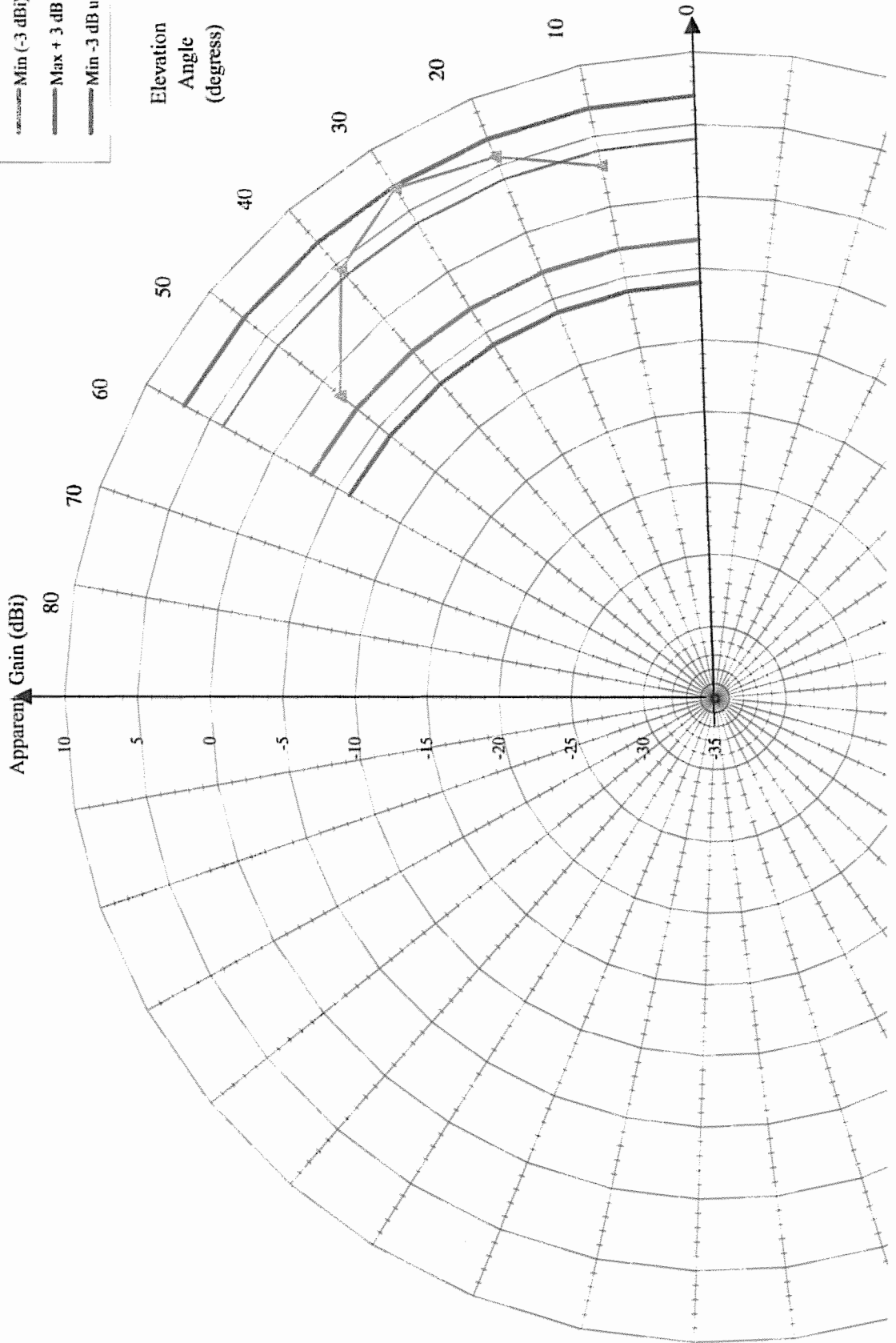
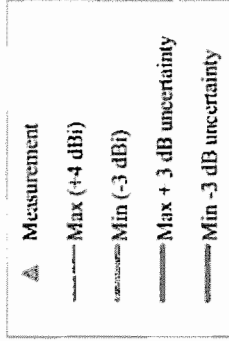
The ERP Beacon is just in the ERP reference.

**Table C1 : EFFECTIVE RADIATED POWER (dBm) / ANTENNA GAIN (dBi)**

Azimuth Angle (Degrees)	Elevation Angle (Degrees)									
	10		20		30		40		50	
	dBm	dBi	dBm	dBi	dBm	dBi	dBm	dBi	dBm	dBi
0	39,27	3,17	41,76	5,66	43,08	6,98	40,75	4,65	34,37	-1,73
30	39,10	3,00	41,93	5,83	43,11	7,01	40,75	4,65	34,75	-1,35
60	38,77	2,67	41,92	5,82	43,11	7,01	40,76	4,66	34,56	-1,54
90	38,77	2,67	41,76	5,66	42,95	6,85	40,59	4,49	34,59	-1,51
120	38,77	2,67	41,77	5,67	42,95	6,85	40,75	4,65	34,70	-1,40
150	38,93	2,83	41,76	5,66	42,95	6,85	40,75	4,65	34,99	-1,11
180	39,27	3,17	41,76	5,66	42,79	6,69	40,75	4,65	34,98	-1,12
210	39,11	3,01	41,60	5,50	42,78	6,68	40,58	4,48	34,69	-1,41
240	39,27	3,17	41,76	5,66	42,78	6,68	40,42	4,32	34,36	-1,74
270	39,10	3,00	41,59	5,49	42,78	6,68	40,25	4,15	34,14	-1,96
300	38,94	2,84	41,60	5,50	42,95	6,85	40,58	4,48	34,06	-2,04
330	38,93	2,83	41,92	5,82	43,11	7,01	40,75	4,65	34,15	-1,95
<b>Average</b>	39,02	2,92	41,76	5,66	42,94	6,84	40,64	4,54	34,53	-1,57
<b>Overall Gain Variation</b>	0,50 dB		0,33 dB		0,33 dB		0,51 dB		0,93 dB	

$$ERP_{\max EOL} = \text{MAX} [ERP_{\max} (ERP_{\max} - ERP_{\text{LOSS}})] = \text{MAX} ( \underline{43,11} , \underline{0,00} ) = \underline{43,1 \text{ dBm}}$$

$$ERP_{\min EOL} = \text{MIN} [ERP_{\min} (ERP_{\min} - ERP_{\text{LOSS}})] = \text{MIN} ( \underline{34,06} , \underline{0,00} ) = \underline{34,1 \text{ dBm}}$$



**ANNEX B**

**MANUFACTURER DOCUMENTATION ON  
MT400 STANDARD COMMUNICATIONS PTY. LTD. EPIRB**

## ANNEX C

APPLICATION FOR A COSPAS-SARSAT 406 MHz  
BEACON TYPE APPROVAL CERTIFICATEBeacon Manufacturer: STANDARD COMMUNICATIONS PTY. LTD.Beacon Model: MT400Name and Location of Beacon Test Facility: INTESPACE, Toulouse (France)Beacon Type: Aviation:  Land:  Maritime: Specified Operating Temperature Range: -20 °C to +55 °CSpecified Operating Lifetime: 24 hr.  48 hr.  Other  Specify: 

## Beacon Battery Type(s):

Chemistry: LITHIUM SULPHUR DIOXIDE (LiSO2)Manufacturer & model no.: SAFT, LO 26 SXSize & number of cells: D SIZE (R20-D), QUANTITY TWO (2)

Extra Features in Beacon:	No	Yes	Details
a) Auxiliary Radio-Locating Device:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Frequency: <u>121.5 MHz</u> Power: <u>16dBm (E.R.P.)</u> Tx. Duty Cycle: <u>Continuous (&gt;96%)</u>
b) Transmits Encoded Position Data:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Nav. Device (Internal or External) _____ Type (GPS, GLONASS, etc.) _____ Manufacturer _____ Model _____
c) Transmits Long Message (144 bits):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d) Automatic Activation:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e) Built-in Strobe Light:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Intensity: <u>&gt;0.75cd (IMO effective)</u> Flash rate: <u>21/min</u>
f) Self-test mode	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g) Other:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Specify: <u>Audible Annunciator</u>

I hereby confirm that the 406 MHz beacon described above has been successfully tested in accordance with the Cospas-Sarsat Type Approval Standard (C/S T.007) and complies with the Cospas-Sarsat Specification (C/S T.001) as demonstrated in the attached report.

Dated:..... Signed:.....

*(for test facility)*

Send to: Cospas-Sarsat Secretariat c/o Inmarsat, 99 City Road, London EC1Y 1AX, United Kingdom



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REV	ECO No	DETAILS	BY	DATE
1	Create	Required to support product release	CJWD	1-07-2003

<b>Specification</b>	<b>Performance</b>
----------------------	--------------------

<b>Modes of operation</b>	
Normal (Activated)	121.5MHz modulated 406MHz modulated Strobe & Audible alert
End of Life (Activated)	121.5MHz modulated At >48hrs+, other functions as supported by remaining battery capacity
Self Test	121.5MHz, full power short burst 406MHz with inverted synchronisation, full power, one burst Strobe & Audible alert
<b>Operational</b>	
Duration	48hrs minimum continuous
Warm-up	None required, full specification performance at activation
User Data Protocol	Programmable via external interface
406 Repetition Period	All Short Protocols supported and programmable via external interface (refer to manufacturer for currently approved protocols)
Strobe Rate	50s nominal, fully random variance up to ± 2.5s maximum 20 flashes nominal per minute
<b>Transmission Frequencies</b>	
VHF	121.5MHz
UHF	406.028 MHz (programmable 406.000MHz to 406.100MHz)
<b>Transmission Output Power</b>	
VHF	50mW ± 3dB (PERP)
UHF	5W ± 2dB
<b>Modulation Format</b>	
406MHz	Phase shift key (PSK)
121.5MHz	Swept tone amplitude modulation
<b>COSPAS/SARSAT Compatibility</b>	
406MHz	Yes, meets requirements of C/S T.001 (Class 2)
121.5MHz	Yes, is phase coherent
<b>Activation</b>	
Method	Manually activated by slider switch
Delay	Will not transmit until activated for 60s-70s
<b>Battery</b>	
Replacement period	Within 5 years after date of manufacture
Replacement method	Service centre, or factory only (non-user replaceable)
Chemistry	LiSO <sub>2</sub>
No./Size	2 D size cells
<b>Physical</b>	
Ruggedness & Durability	IEC 61097-2, AS/NZS 4280.1, ETSI EN 300 066
Environmental sealing	IEC 61097-2, AS/NZS 4280.1, ETSI EN 300 066

AUTHORED BY C.J.W.Duncan	<b>STANDARD COMMUNICATIONS PTY LTD</b> 6 Frank St. Gladesville (PO Box 296) NSW 2111 AUSTRALIA ABN: 93 000 346 814				
CHECKED BY L.May	TITLE <b>MT400 EPIRB, Technical Data Sheet</b>				
APPROVED BY C.J.W.Duncan	PART NO	DRAWING NO <b>41843</b>	REVISION <b>1</b>	SHEET 1 OF 2 <hr/> FILE: 41843-1.DOC	<b>A4</b>

REV	ECO No	DETAILS	BY	DATE
1	Create	Required to support product release	CJWD	1-07-2003

Specification	Performance
---------------	-------------

<b>Temperature</b>	Operating	-20°C to +55°C
	Storage	-30°C to +70°C
<b>Size</b>	Typical complete, unit in bracket with antenna stowed	
	Height	260mm (max)
	Width	102mm (max)
	Depth	83mm (max)
<b>Weight</b>	Beacon	535g (typical, including battery cells)
	Bracket	98g (typical)
<b>Other Features</b>	Retention Lanyard	Buoyant type and approximately 5.5m in length.
	Retro-reflective tape	Large surface area, encircling unit above waterline
	Solid-state Strobe	Meets or exceeds IMO requirements
	Antenna	High durability stainless steel tape construction
	Bracket	Quick release mechanism (manual). Retained by 4 vessel fixing points

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## MT400 406MHz EPIRB

### PHOTOGRAPHS OF TEST UNIT

