No	Δ 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

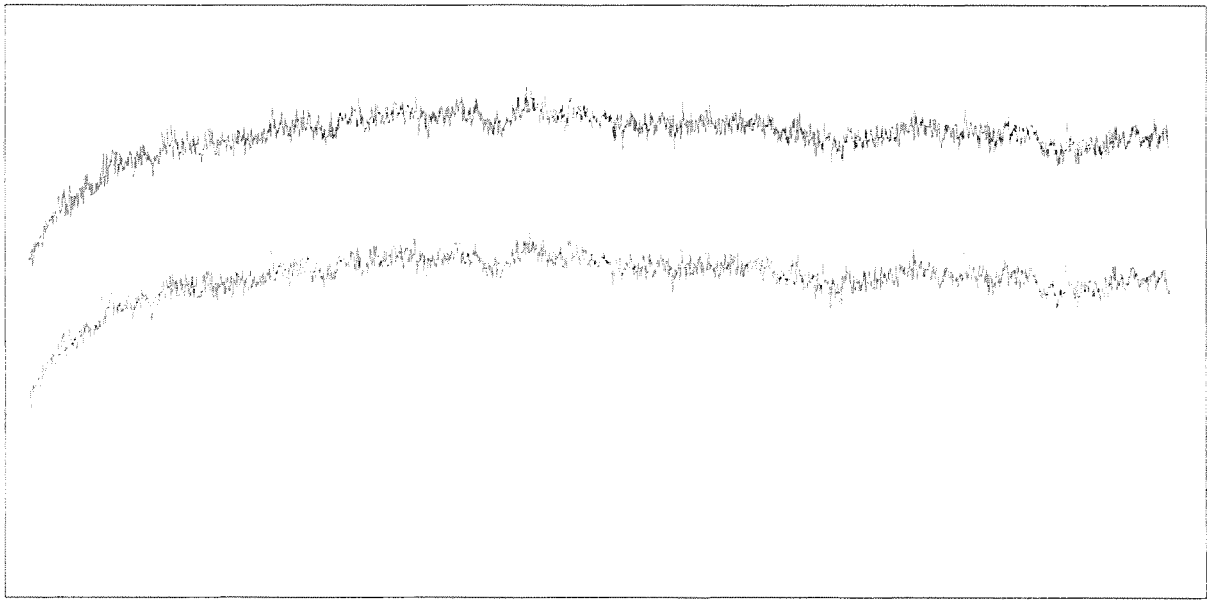
No	Temp.	Slope	Sigma	P406	Short term	P121.5	
871	-20,8	1,1E-11	3,2E-10	36,8	2,0E-10	18,8	
901	-20,7	4,0E-11	5,9E-10	36,8	2,4E-10	18,8	
931	-20,7	3,0E-11	5,1E-10	36,8	3,7E-10	18,8	
961	-20,6	-5,7E-11	4,4E-10	36,8	3,9E-10	18,9	
991	-20,5	-7,8E-12	6,2E-10	36,8	4,0E-10	18,8	
1021	-20,5	2,3E-11	5,5E-10	36,8	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	24h
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	

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	48h
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							

Beacon message after 48 hours of Operating Lifetime Test :
FFFE2F5F7F03C480000009C00400

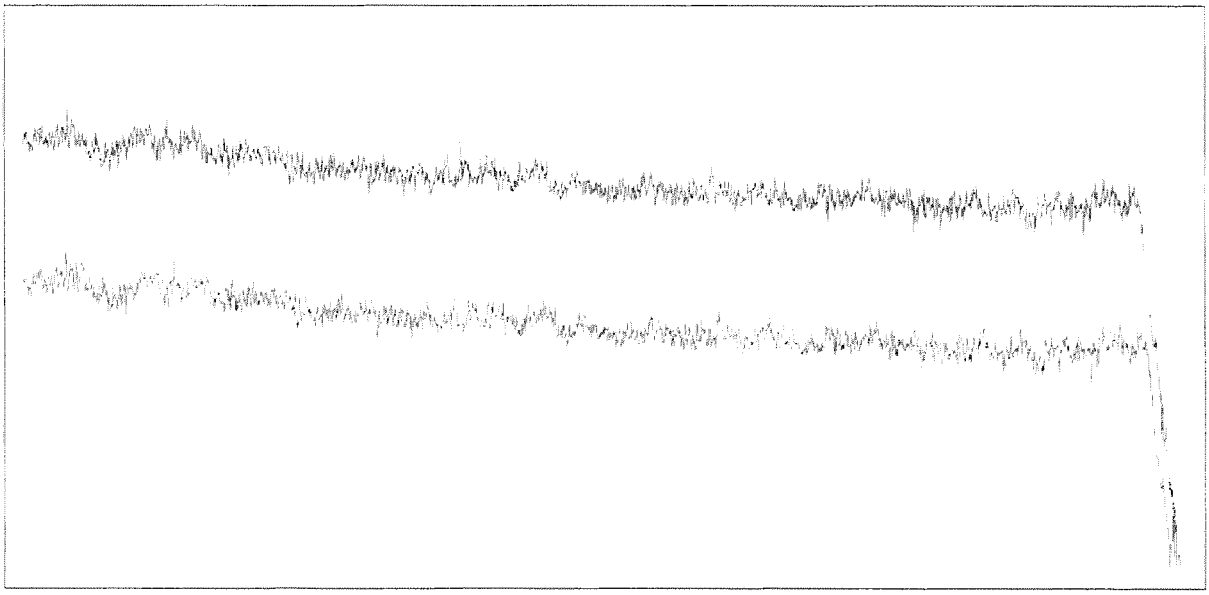
Frequency variation

406024,934 kHz



406024,919 kHz

406024,934 kHz



406024,919 kHz

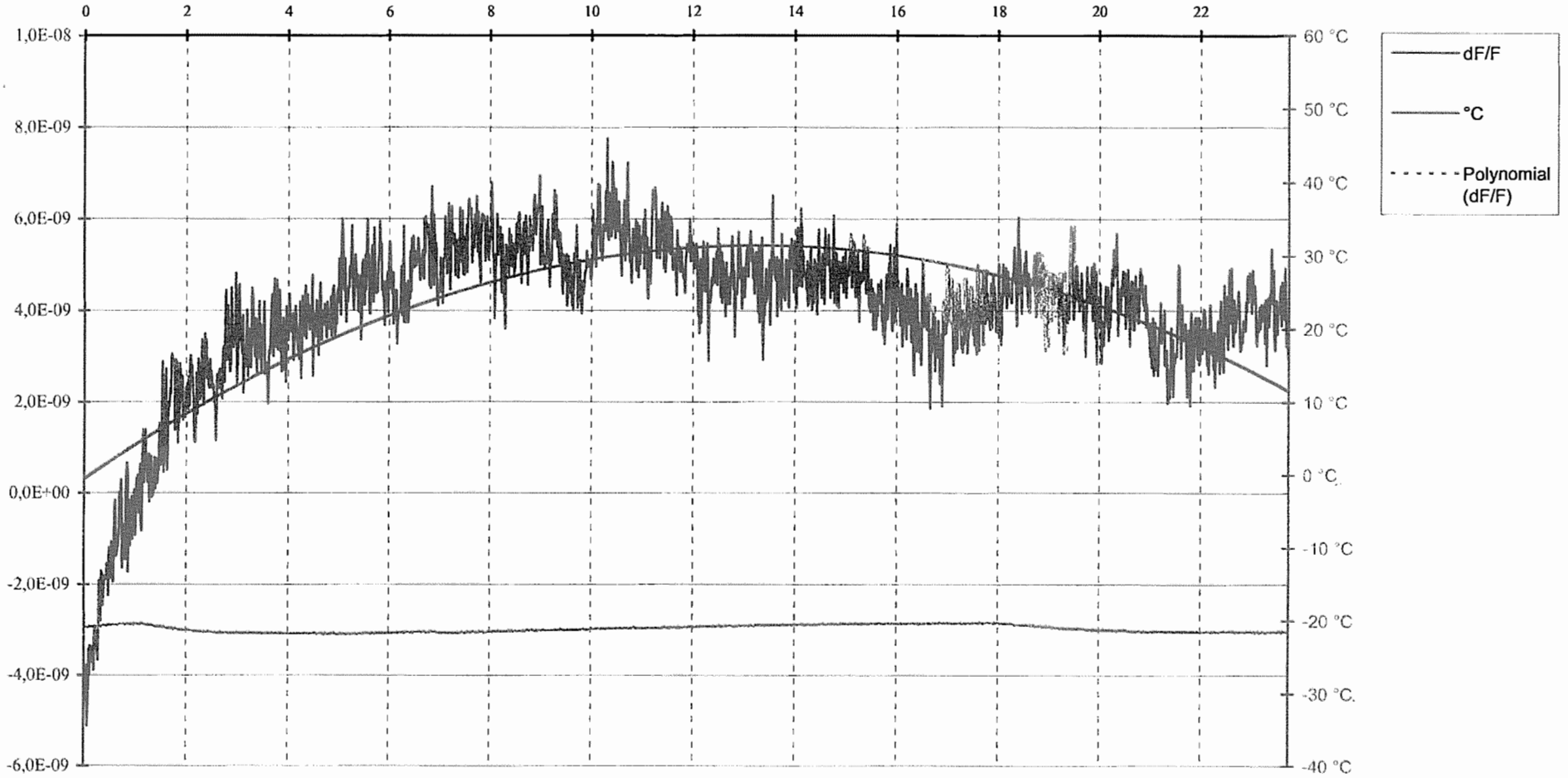
Initial tracing Smoothed tracing

LIFE TEST AT -20 °C

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

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

FREQUENCY VARIATION



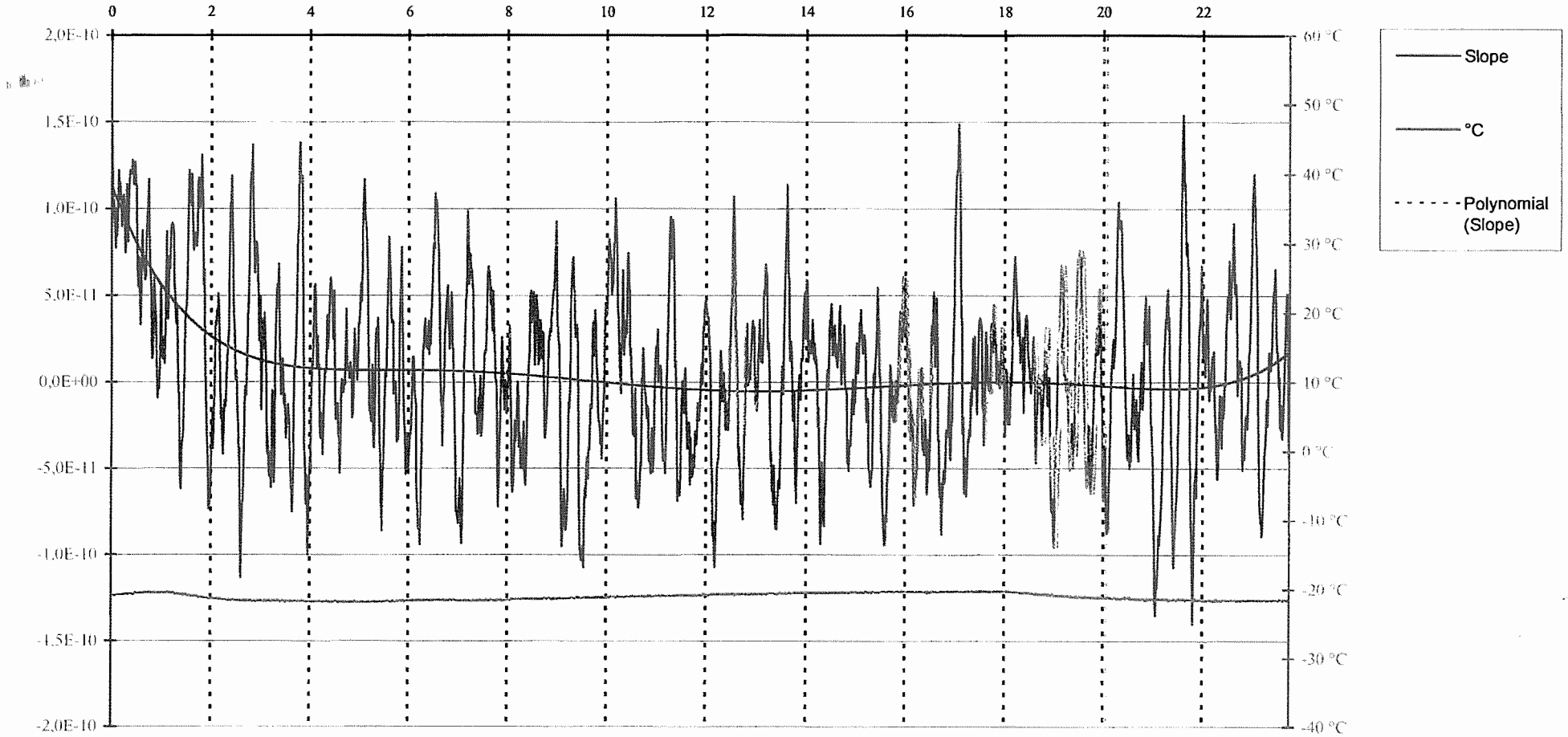
intespace
L'Intelligence de l'Environnement

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)



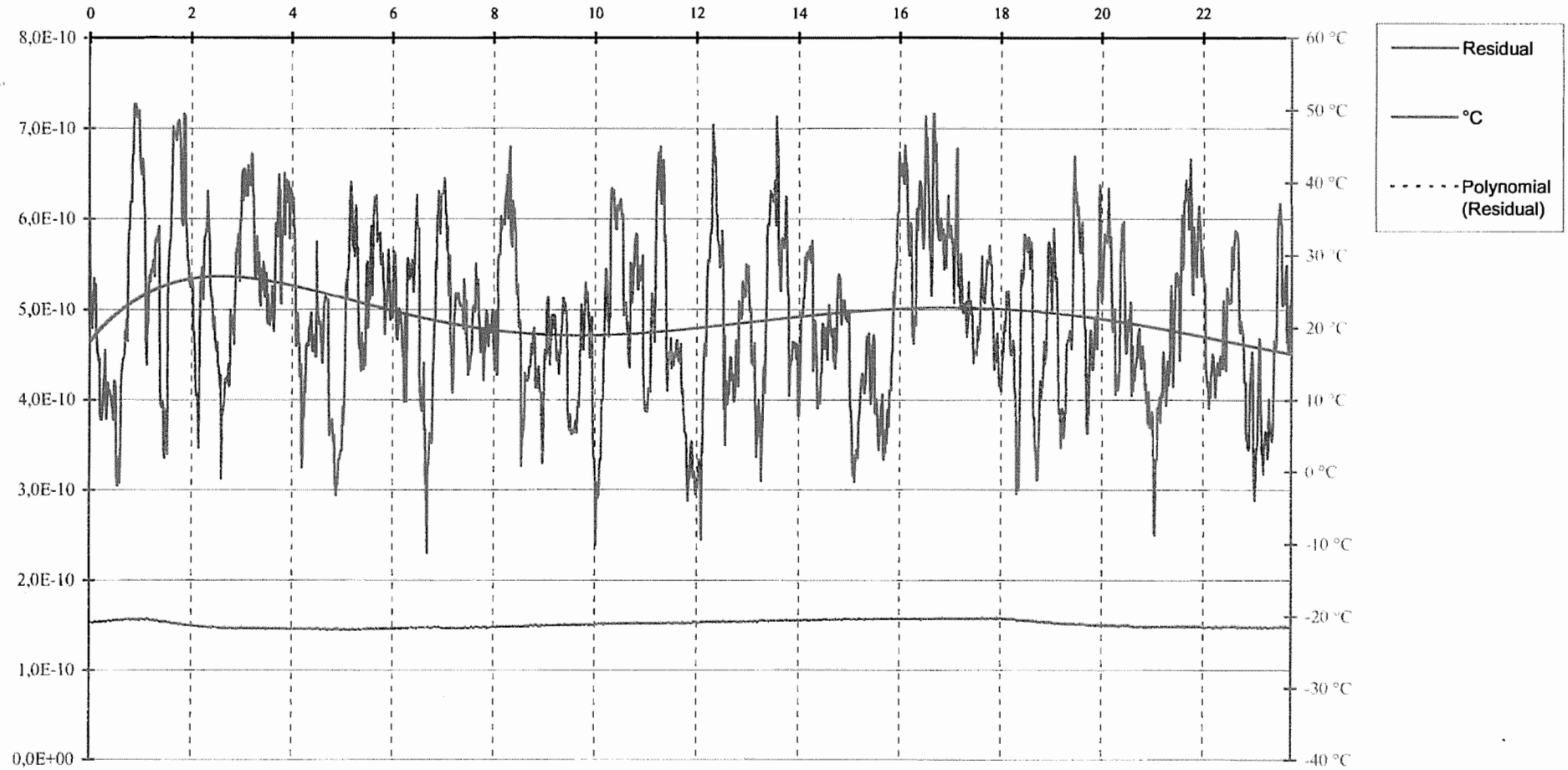
intespace
L'Intelligence de l'Environnement

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)

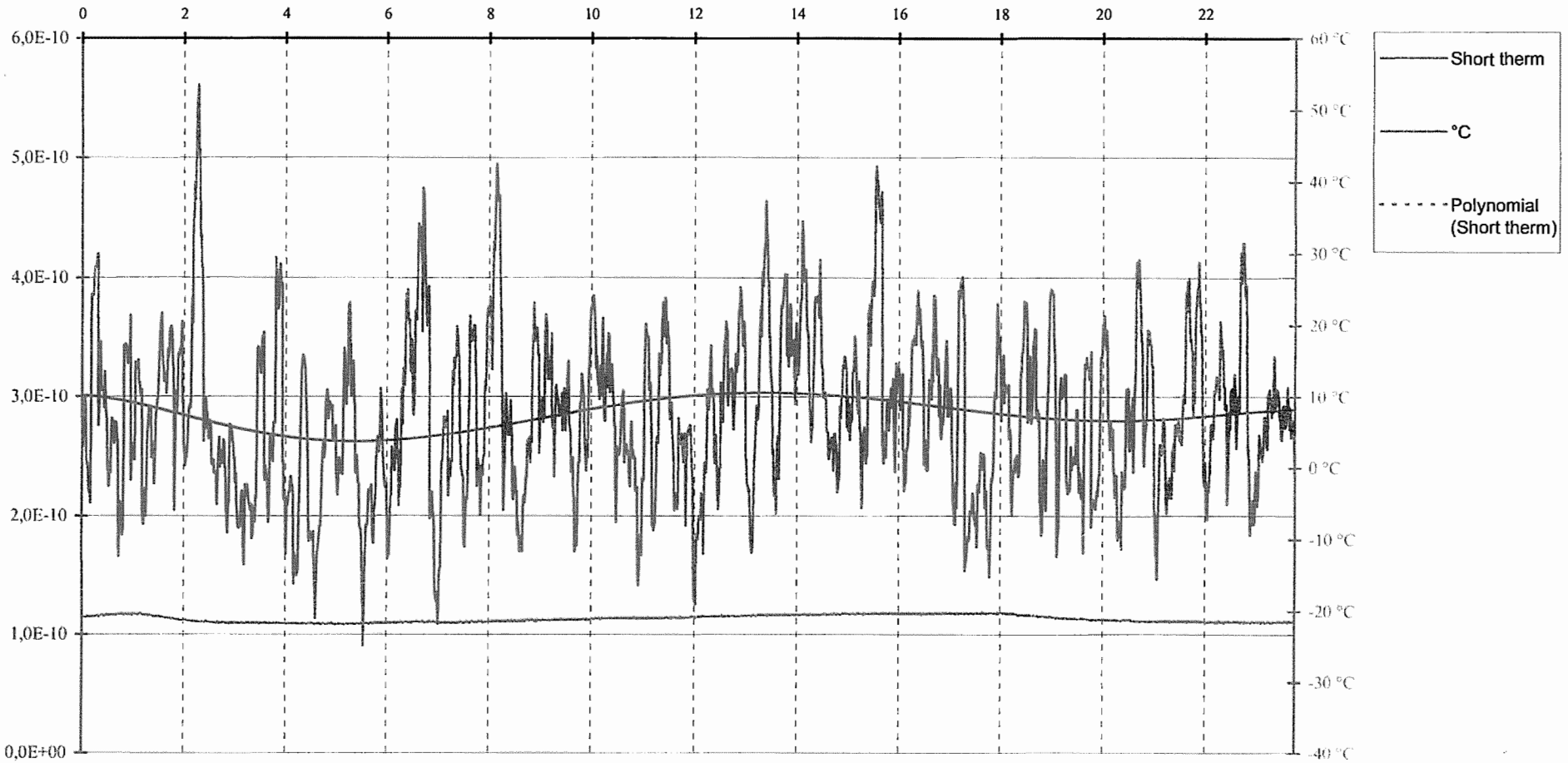


LIFE TEST AT -20 °C

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)

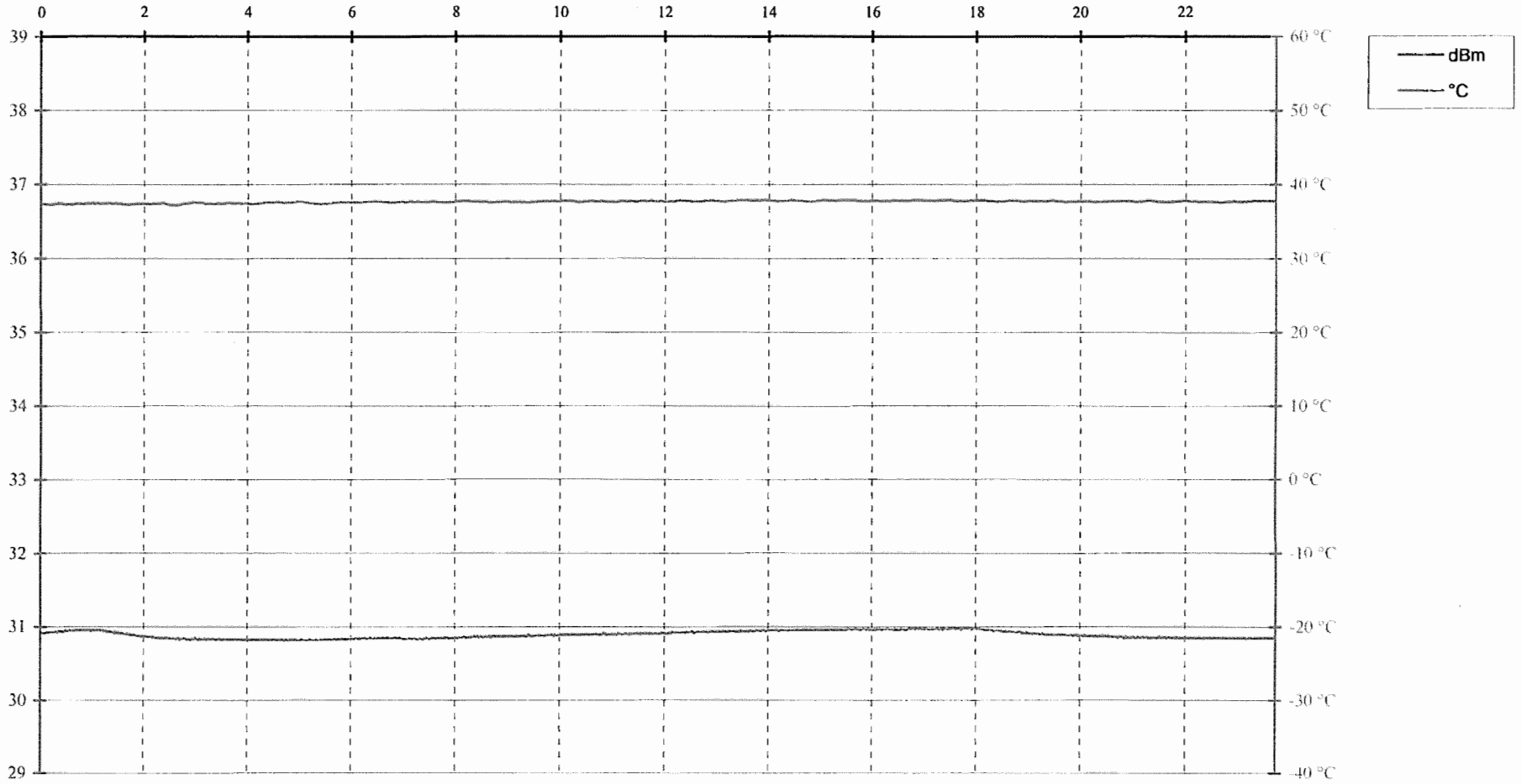


LIFE TEST AT -20 °C

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

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

OUTPUT POWER (35 to 39 dBm)

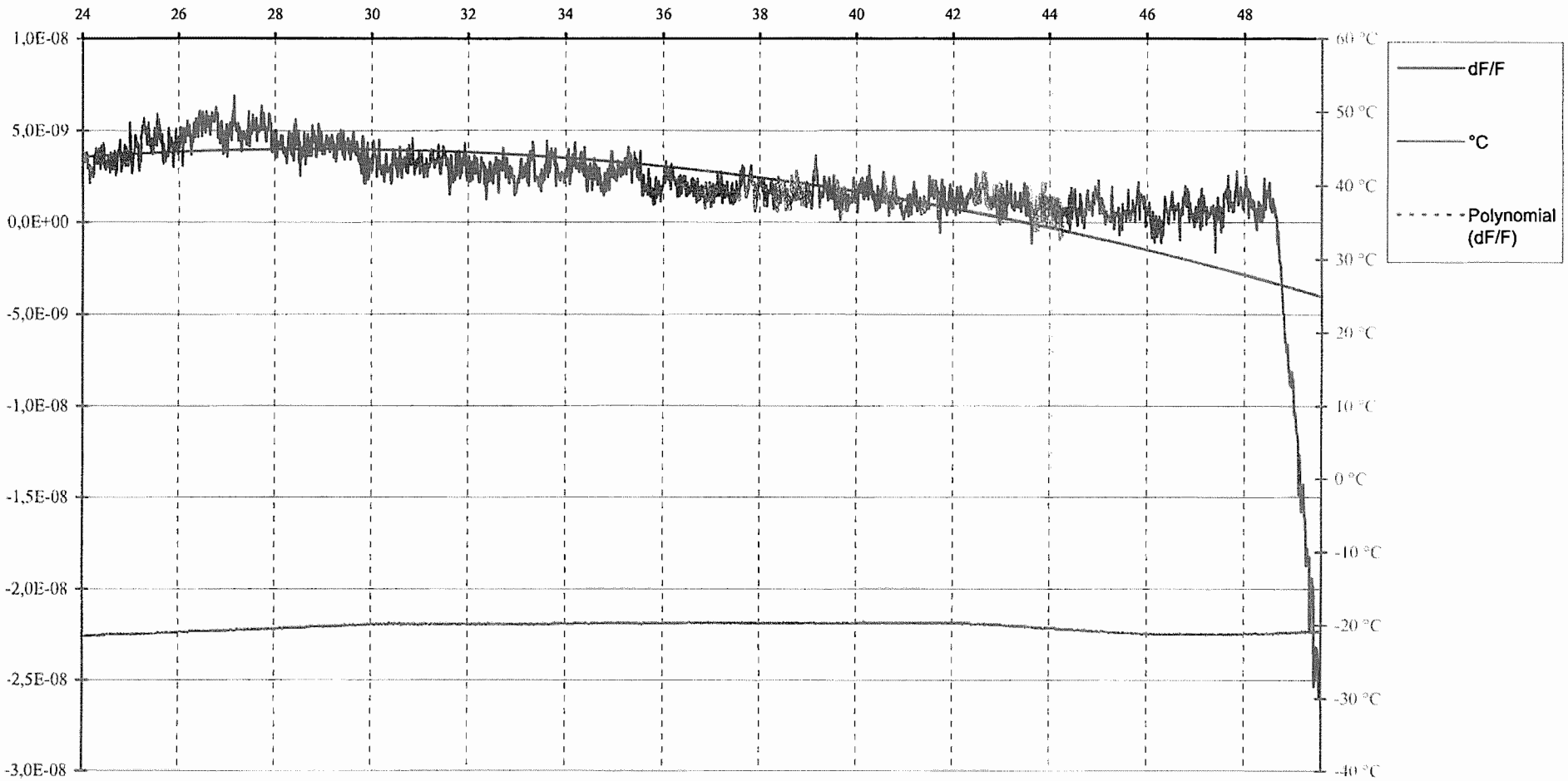


LIFE TEST AT -20 °C

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

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

FREQUENCY VARIATION



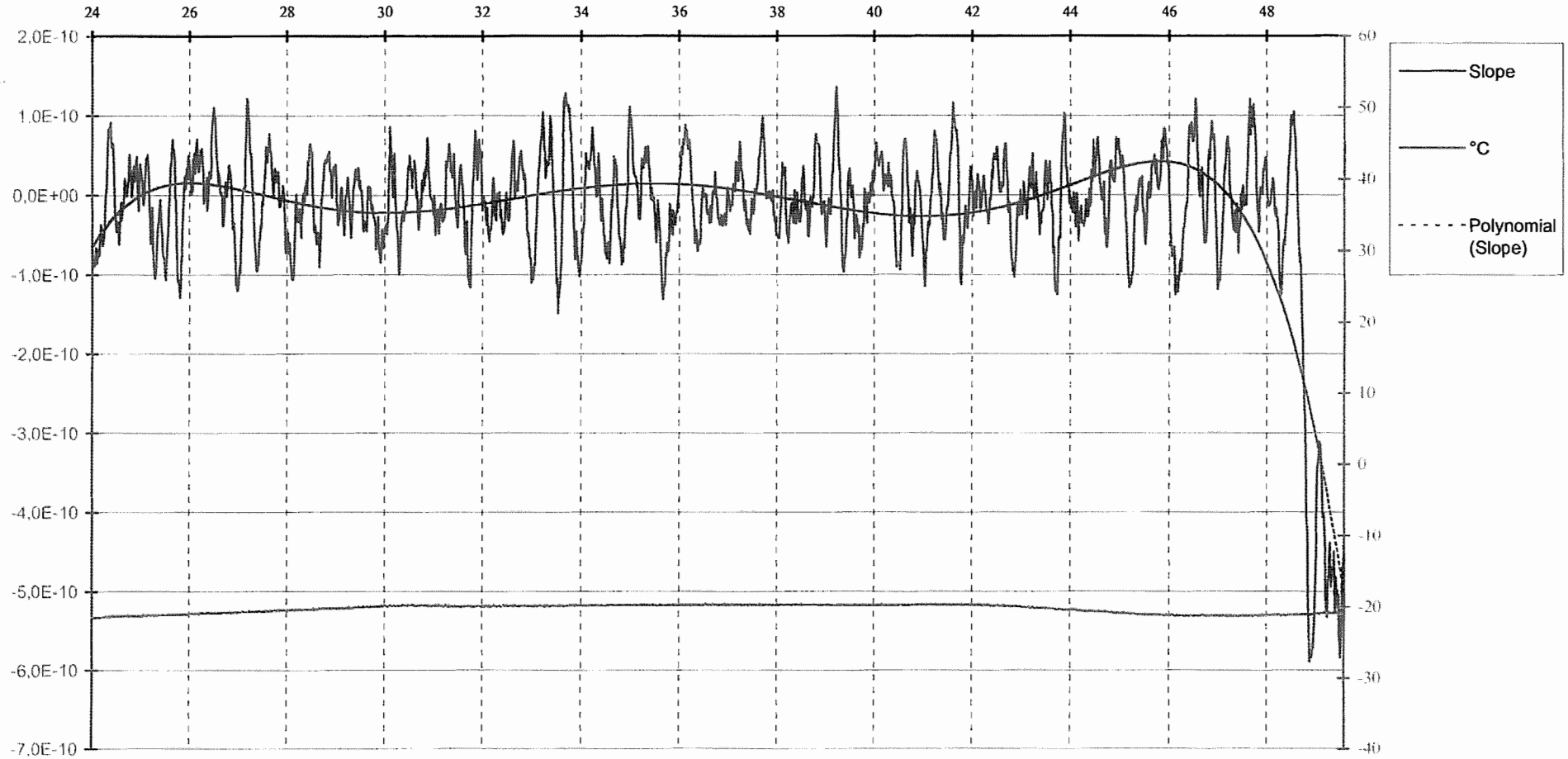
intespace
l'intelligence de l'Environnement

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 /mn (-1,0E-9 to 1,0E-9)

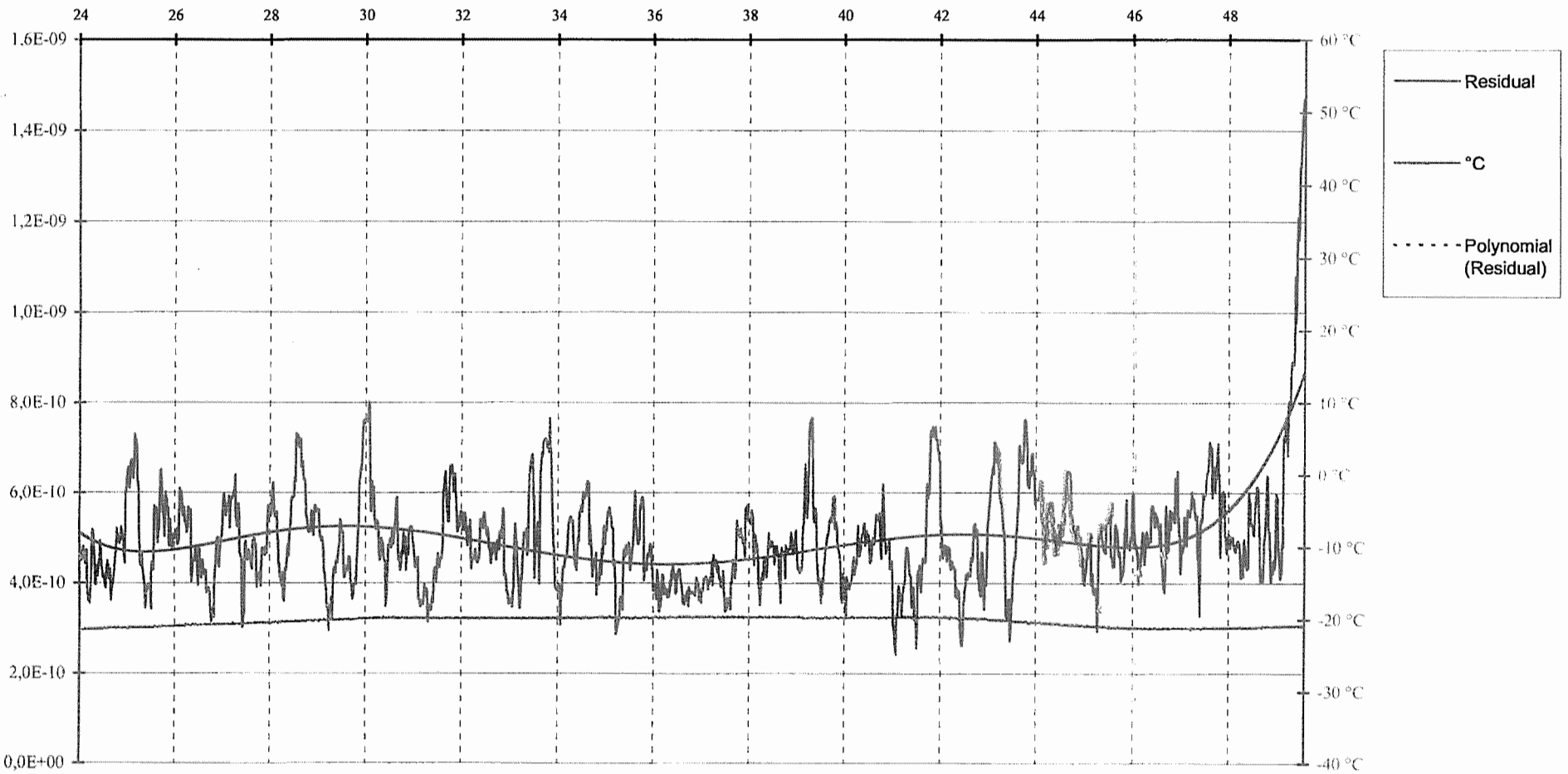


LIFE TEST AT -20 °C

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

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

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



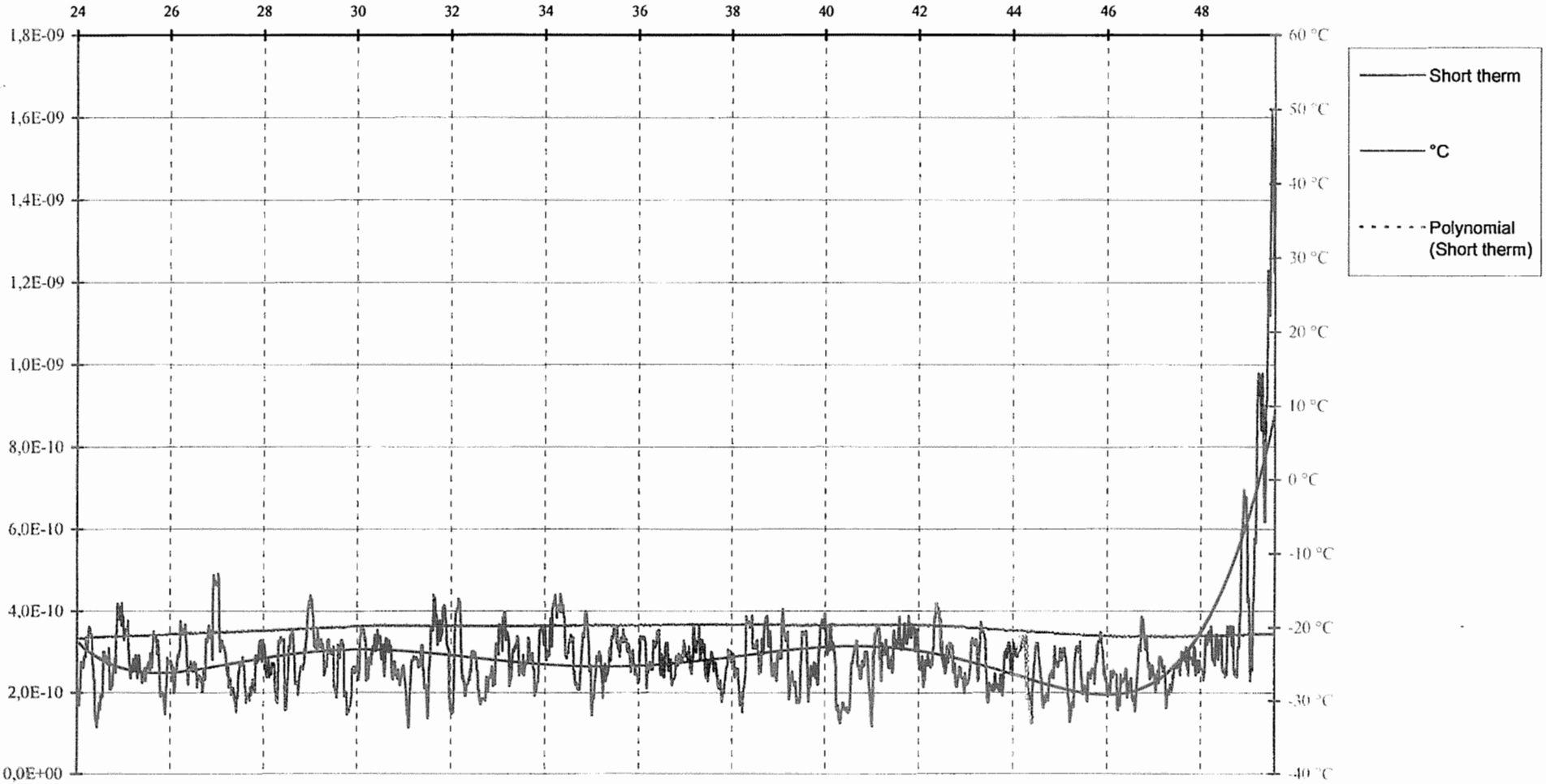
intespace
L'Intelligence de l'Environnement

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 (≤ 2,0E-9)



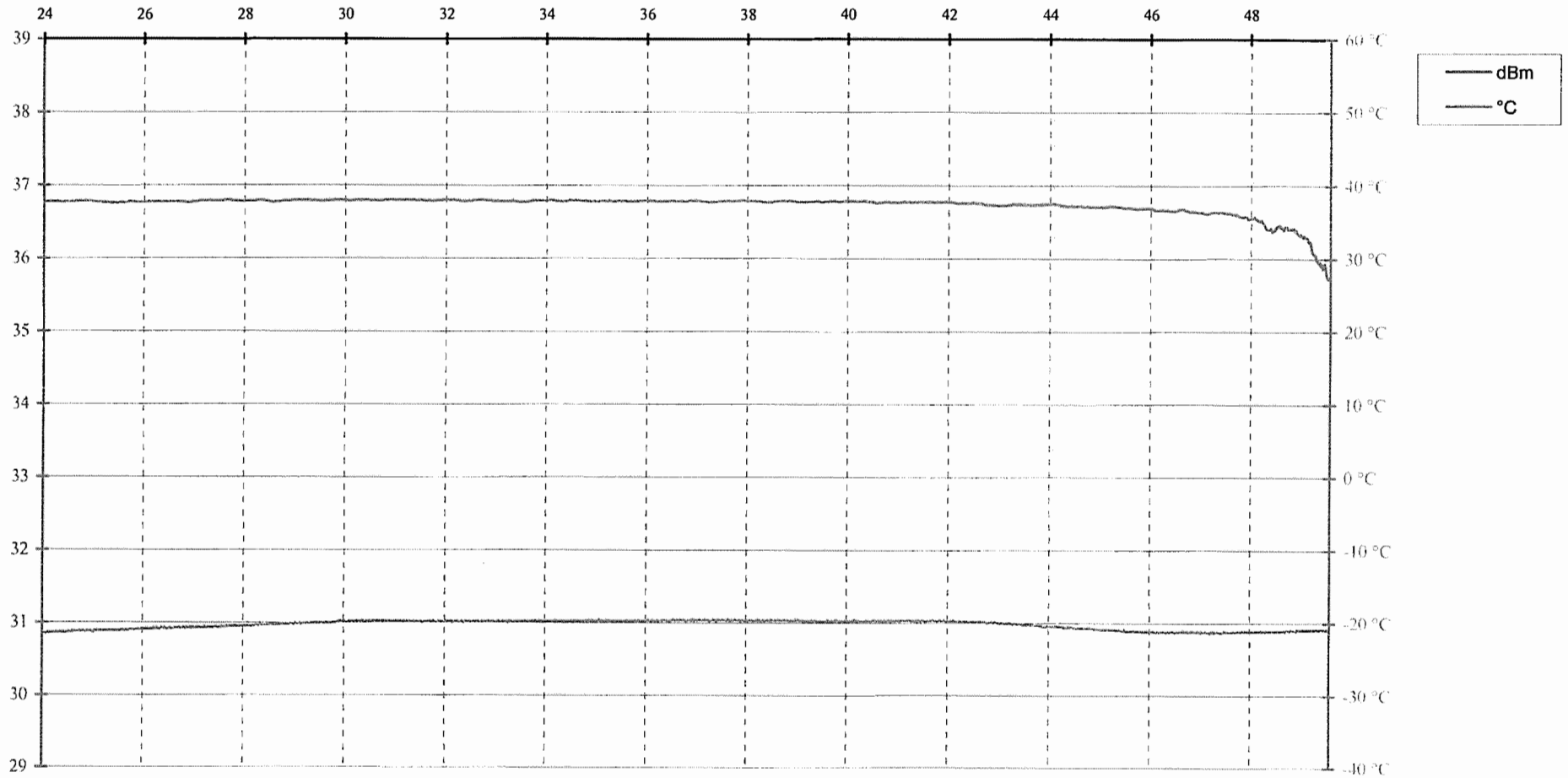
L'Intelligence de l'Environnement
intespace

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

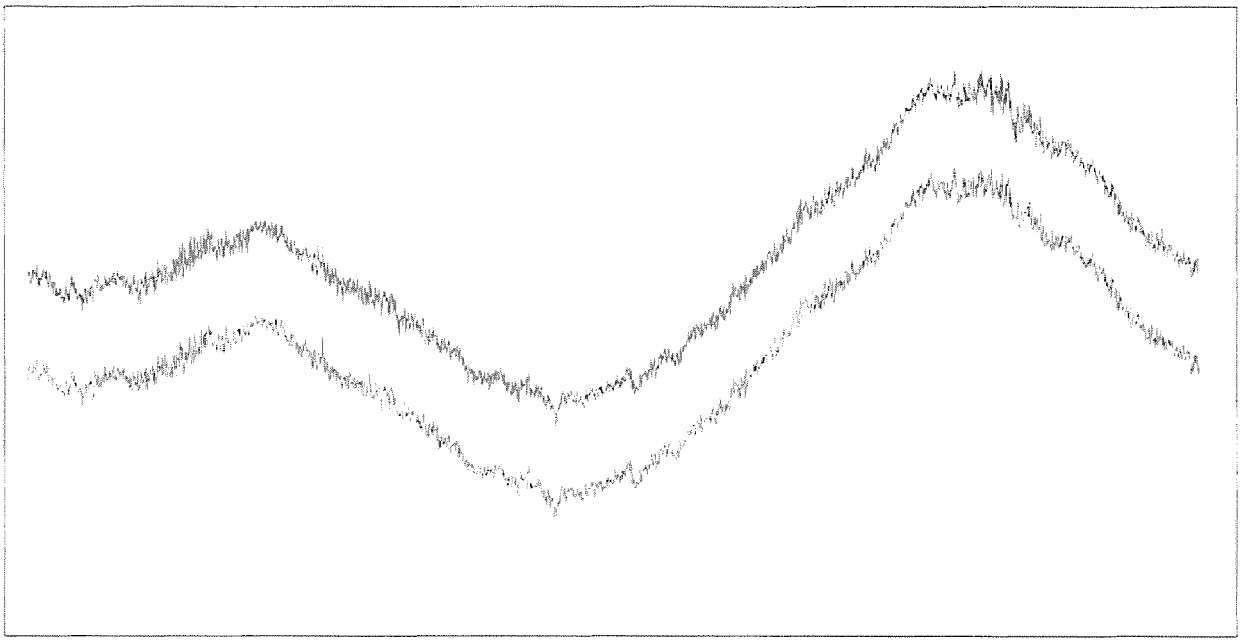
No	Temp.	Slope	Sigma	P406	Short term	P121.5
871	35,7	-1,0E-10	4,7E-10	35,5	1,9E-10	18,2
901	37,8	2,0E-11	6,0E-10	35,4	2,0E-10	18,0
931	39,9	1,1E-11	5,0E-10	35,6	2,9E-10	18,2
961	41,9	-8,3E-11	5,1E-10	35,6	2,3E-10	18,0
991	44,0	-8,0E-11	3,8E-10	35,5	2,6E-10	17,7
1021	46,0	6,3E-13	5,1E-10	35,5	2,0E-10	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 :
FFFE2F5F7F03C480000009C00400

Frequency variation

406024963



406024939

Initial tracing Smoothed tracing

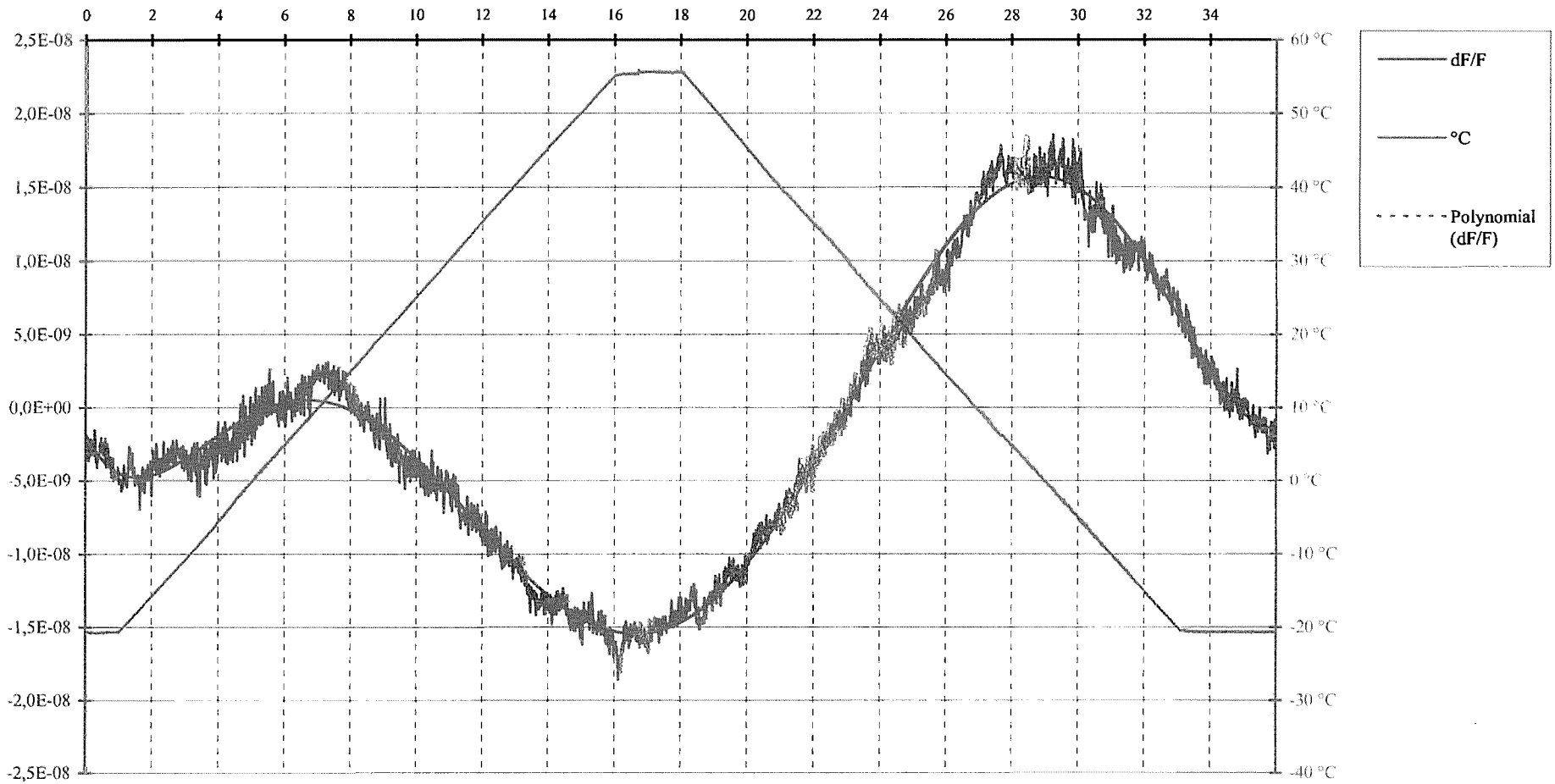
intespace
L'Intelligence de l'Environnement

TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

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

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

FREQUENCY VARIATION



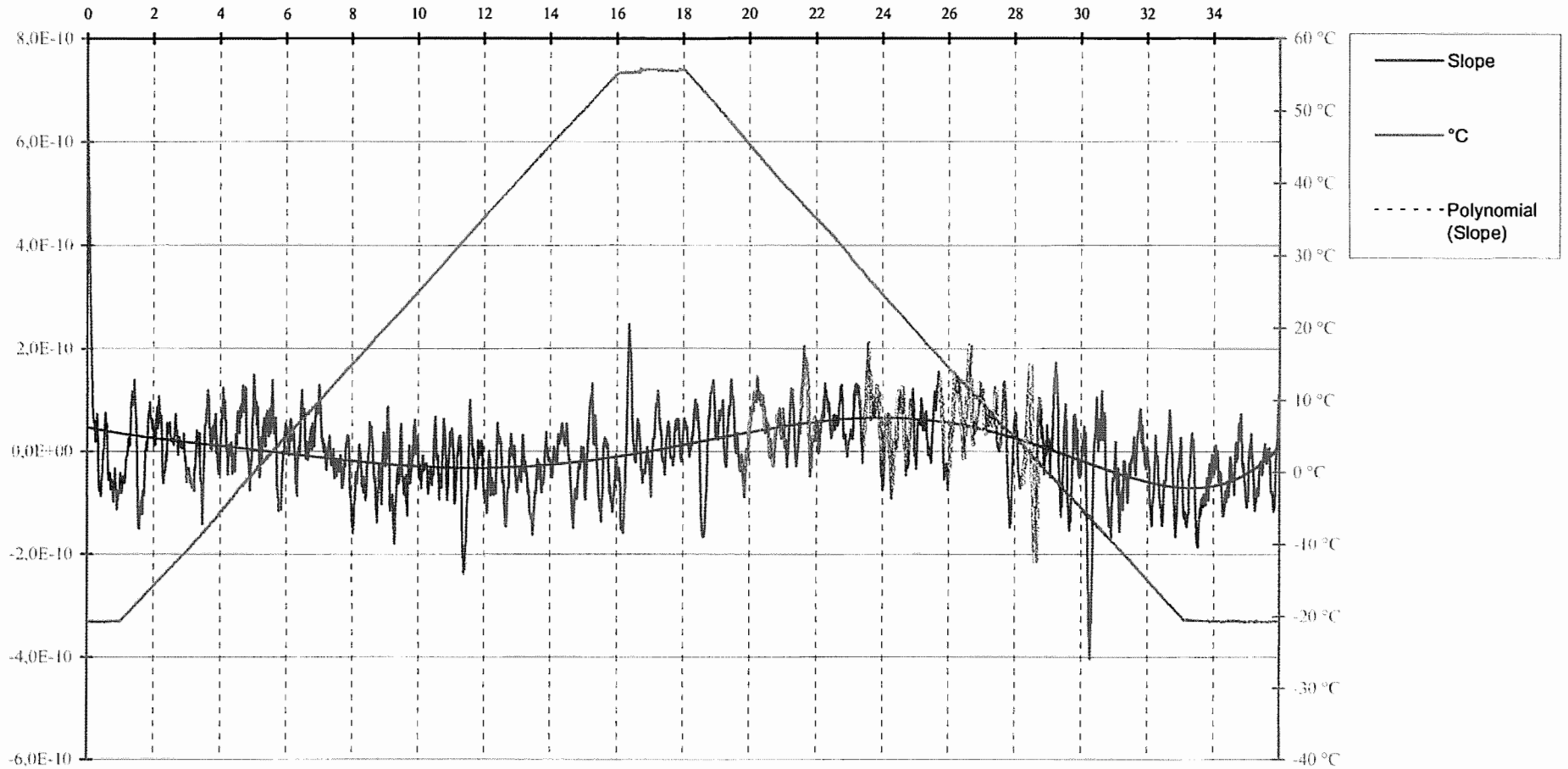
L'Intelligence de l'Environnement
intespace

TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

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

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

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

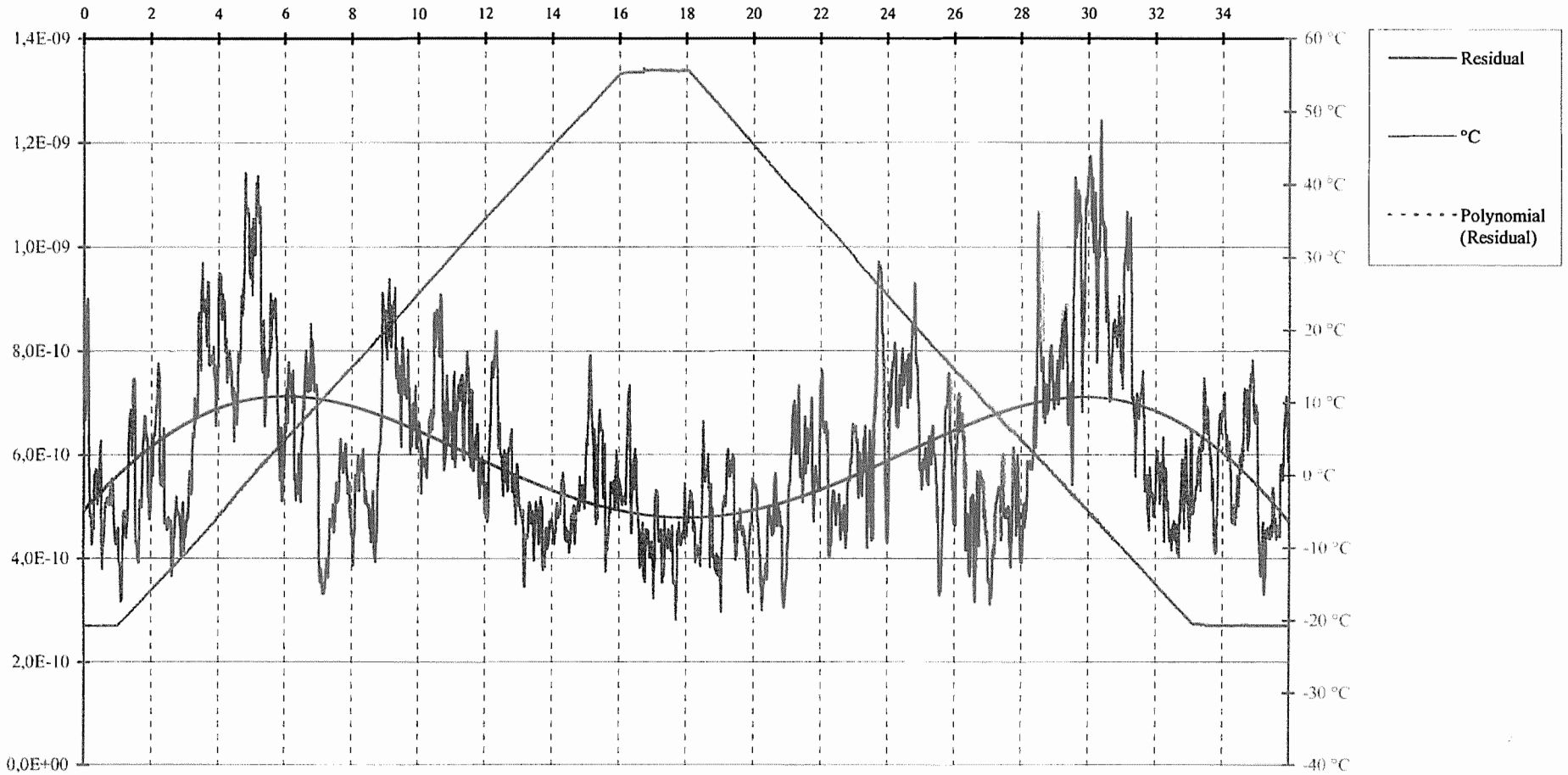


TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

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

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

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



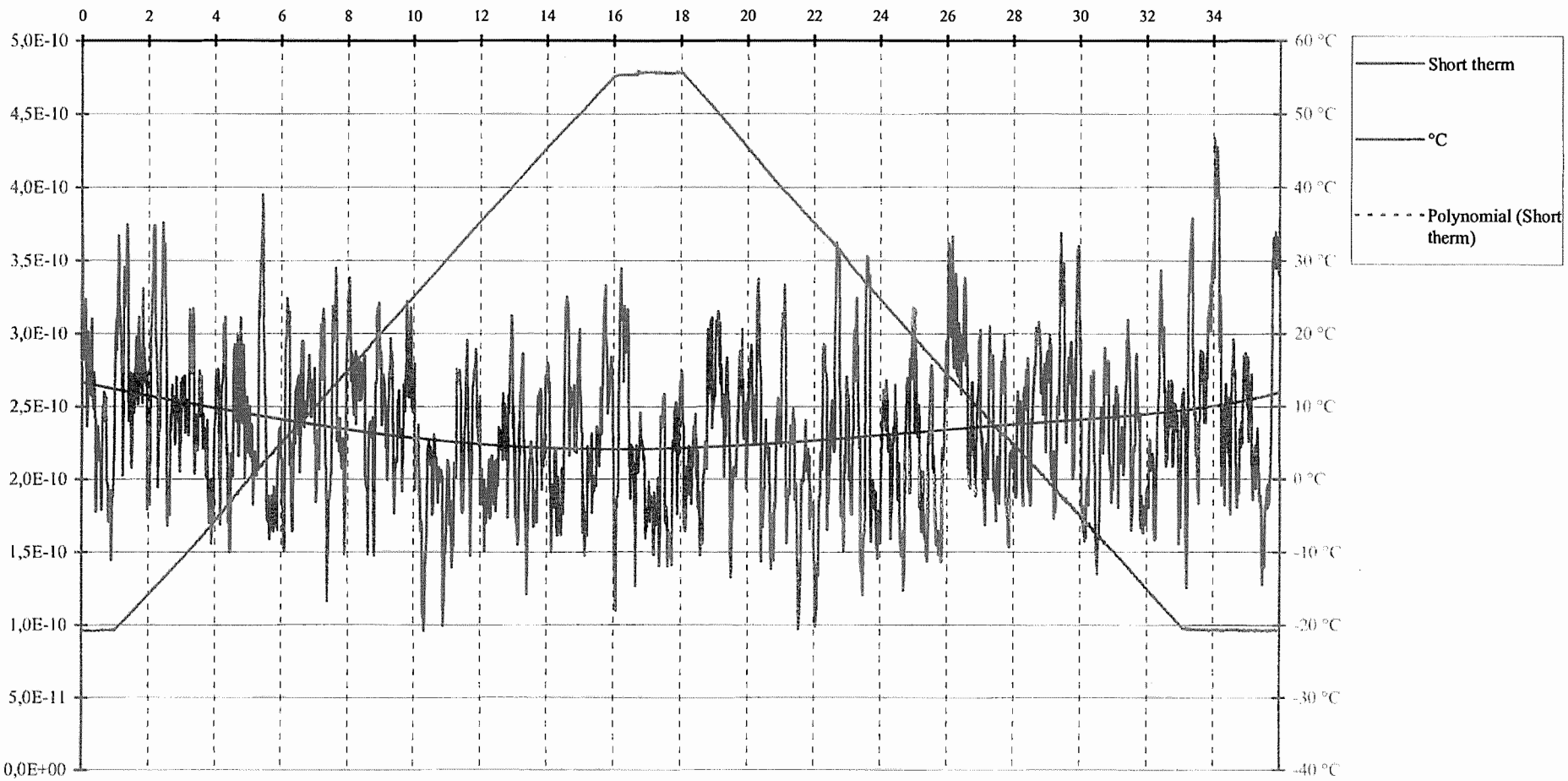
intespace
L'Intelligence de l'Environnement

TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

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

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

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

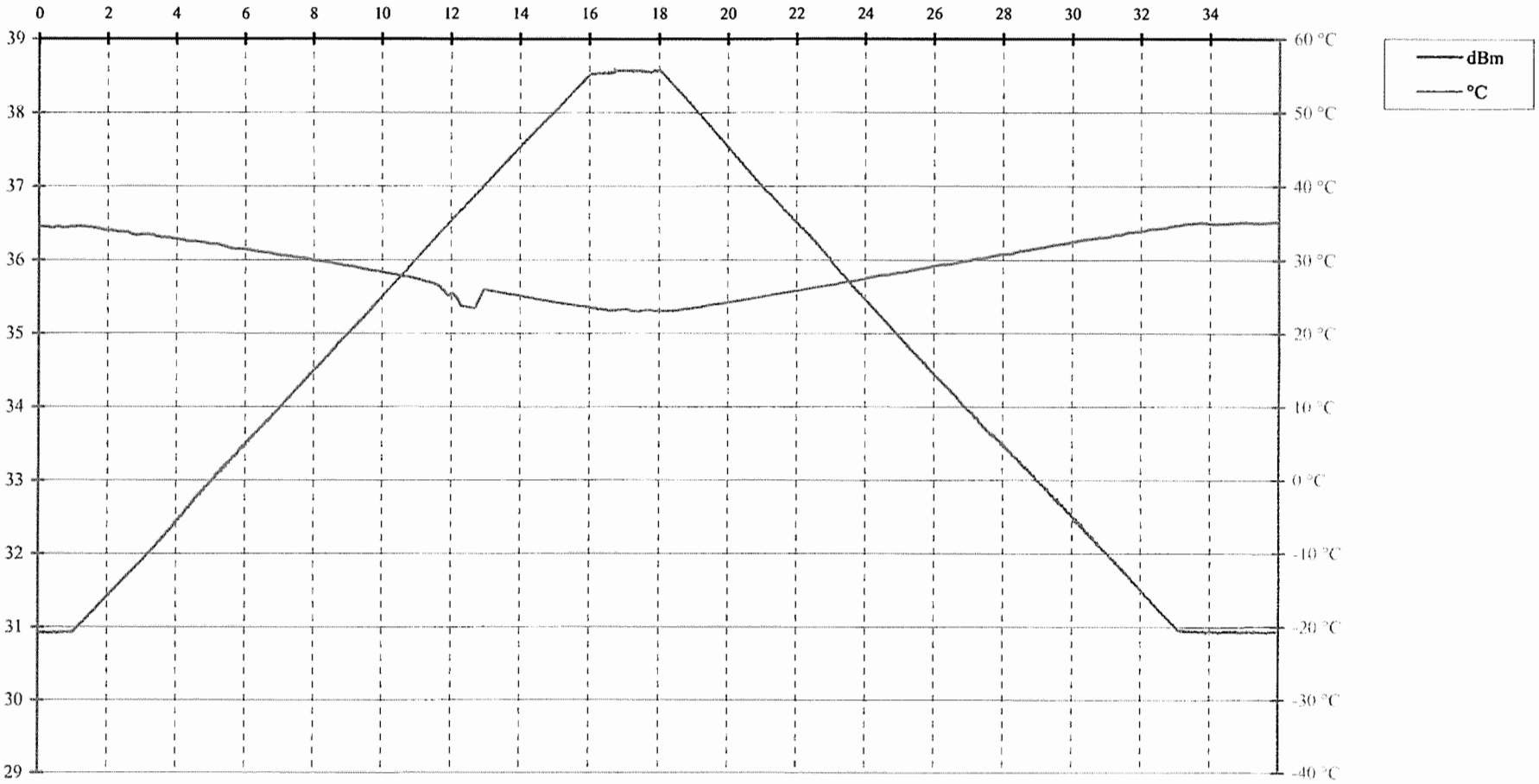


TEMPERATURE GRADIENT TEST RESULTS (5 °C / hour)

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

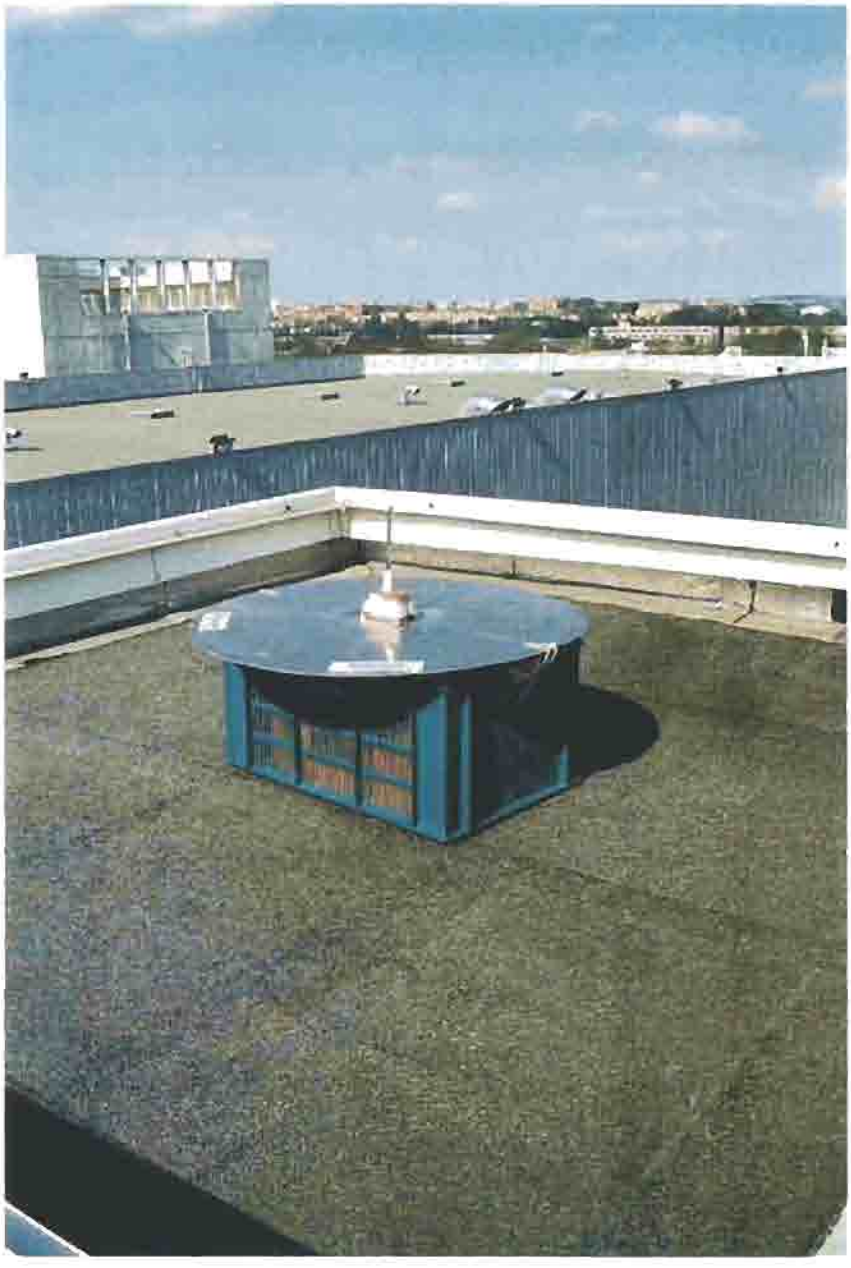
Date : 8 Apr 2003
Time : 14:56:36

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 : BEFE07890000001
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	BIAIS	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	00H32	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	00H05	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	2272	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	50.888	-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	18	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	1	2969	0.47	53.559	53.518	18.3	-4	0	0.4	4/0	2271	7E+05
29/03 20H55	21H03	S09	17	43.560	1.482	99	1	2968	0.21	46.960	18.830	6.6	4	0	0.1	4/0	2271	7E+05
29/03 20H55	22H43	S09	17	43.559	1.480	99	1	2968	0.12	46.960	18.831	6.6	-4	0	0.1	4/0	2272	7E+05
29/03 20H55	09H16	S09	17	43.560	1.482	99	1	2968	0.17	46.961	18.832	6.6	-4	0	0.1	4/0	2271	7E+05
29/03 22H03	22H12	S04	18	43.563	1.495	95	2	2967	1.31	44.384	5.605	1.7	4	0	0.2	4/0	2271	7E+05
29/03 22H03	23H51	S04	18	43.563	1.496	95	2	2967	1.41	44.385	5.609	1.7	-4	0	0.2	4/0	2271	7E+05
29/03 22H35	22H43	S09	17	43.560	1.477	99	1	2967	0.17	37.534	-28.349	11.3	4	0	0.2	4/0	2272	7E+05
29/03 22H35	09H16	S09	16	43.562	1.478	99	1	2967	0.21	37.531	-28.368	11.3	-4	0	0.2	4/0	2271	7E+05

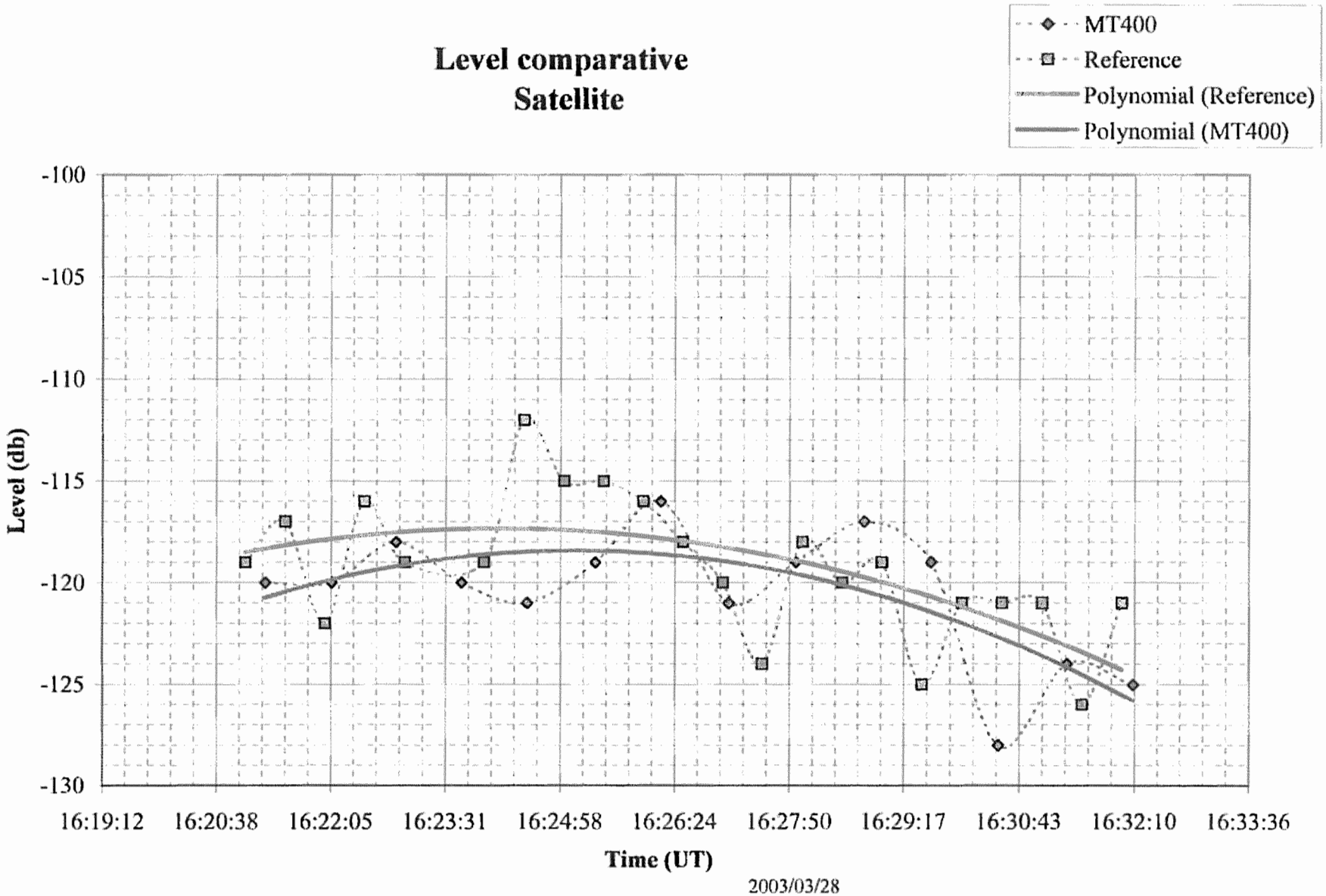
TCA	TPC	SL	PTS	LAT1	LONG1	PB	MAJ	BIAIS	ERR	LAT2	LONG2	CTA	FB	WF	SDV	CF	SRCE	MCCN
29/03 22H35	18H59	S09	16	43.562	1.479	99	1	2967	0.23	37.532	-28.370	11.3	-4	0	0.2	4/0	2272	7E+05
29/03 23H44	23H51	S04	15	43.559	1.478	99	1	2967	0.16	34.674	-41.711	16.5	4	0	0.3	4/0	2271	7E+05
29/03 23H44	10H31	S04	15	43.562	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	43.560	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	2271	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	-4	0	0.4	4/0	2271	7E+05
30/03 20H11	03H43	C04	4	43.579	1.542	93	1	2951	5.45	49.233	-91.559	28.5	-4	1	1.0	4/0	2272	7E+05
30/03 20H32	20H40	S09	17	43.561	1.481	99	1	2965	0.22	48.990	29.472	10.4	4	0	0.3	4/0	2271	7E+05
30/03 20H32	22H21	S09	17	43.560	1.480	99	1	2966	0.03	48.990	29.470	10.4	-4	0	0.3	4/0	2272	7E+05
30/03 20H42	20H43	S07	2	.....	.....	..	...	0	.....	.....	.....	....	4	9.	....	...	2272	7E+05
30/03 20H42	05H39	S07	2	.....	.....	..	...	0	.....	.....	.....	....	-4	9.	....	...	2271	7E+05
30/03 20H42	07H21	S07	2	.....	.....	..	...	0	.....	.....	.....	....	-4	9.	....	...	2272	7E+05

TCA	TPC	SL	PTS	LAT1	LONG1	PB	MAJ	BIAIS	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	.....	.....	.....	....	4	9.	....	...	2272	7E+05
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	.....	.....	.....	....	-4	9.	....	...	2272	7E+05
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	.....	.....	.....	....	4	9.	....	...	2271	7E+05
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	17.872	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 geographiques BORDE/MARSA numero de dossier xxx
Nombre total de lignes (localisees + detectees) : 219 + 9 = 228
Nombre de localisees : 219
Nombre de balises-passage : 117
Nombre de localisations uniques : 112
Date premiere loc : 28/03/2003 08:59
Date derniere loc : 31/03/2003 08:52
Duree de l'emission : 71H 52mn
Reference 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	ce30000000000000dbd0e40 0	-119	S7
2003/03/28	16:21:30,3	ce30000000000000dbd0e40 0	-117	S7
2003/03/28	16:22:00,3	ce30000000000000dbd0e40 0	-122	S7
2003/03/28	16:22:30,3	ce30000000000000dbd0e40 0	-116	S7
2003/03/28	16:23:00,3	ce30000000000000dbd0e40 0	-119	S7
2003/03/28	16:24:00,3	ce30000000000000dbd0e40 0	-119	S7
2003/03/28	16:24:30,3	ce30000000000000dbd0e40 0	-112	S7
2003/03/28	16:25:00,3	ce30000000000000dbd0e40 0	-115	S7
2003/03/28	16:25:30,3	ce30000000000000dbd0e40 0	-115	S7
2003/03/28	16:26:00,3	ce30000000000000dbd0e40 0	-116	S7
2003/03/28	16:26:30,3	ce30000000000000dbd0e40 0	-118	S7
2003/03/28	16:27:00,3	ce30000000000000dbd0e40 0	-120	S7
2003/03/28	16:27:30,3	ce30000000000000dbd0e40 0	-124	S7
2003/03/28	16:28:00,3	ce30000000000000dbd0e40 0	-118	S7
2003/03/28	16:28:30,3	ce30000000000000dbd0e40 0	-120	S7
2003/03/28	16:29:00,3	ce30000000000000dbd0e40 0	-119	S7
2003/03/28	16:29:30,3	ce30000000000000dbd0e40 0	-125	S7
2003/03/28	16:30:00,3	ce30000000000000dbd0e40 0	-121	S7
2003/03/28	16:30:30,3	ce30000000000000dbd0e40 0	-121	S7
28/03/2003	16:31:00,3	ce30000000000000dbd0e40 0	-121	S7
28/03/2003	16:31:30,3	ce30000000000000dbd0e40 0	-126	S7
28/03/2003	16:32:00,3	ce30000000000000dbd0e40 0	-121	S7


Level comparative
Satellite
MT400
Reference
Polynomial (Reference)
Polynomial (MT400)
-100
-105
-110
-115
-120
-125
-130
Level (db)
16:19:12
16:20:38
16:22:05
16:23:31
16:24:58
16:26:24
16:27:50
16:29:17
16:30:43
16:32:10
16:33:36
Time (UT)
2003/03/28

ANNEX A

ANTENNA TEST RESULTS ON
MT469 STANDARD COMMUNICATIONS PTY. LTD. EPIRB
N° C203

Note : Theses tests are out of Cofrac Accreditation Scope

ANNEX A

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

OBSOLETE

1 - ADMINISTRATION

1. WORK ORDER : Reference ITS : M4586

1. TEST TEAM : A.COURTINADE

1. SCHEDULE : 26 March 2003

2 - PURPOSE

The radiation tests of the dedicated radio beacon are performed in INTESPACE EMC Laboratory in compliance with the test methods described in the COSPAS-SARSAT 406 MHz distress beacon type approval standard : C/S T. 007- Issue 3 - Revision 9 - October 2002 .

3 - RADIO BEACON IDENTIFICATIONS

Manufacturer : Standard Communications Pty Ltd

Model N° : MT400

Serial N° : C203

Antenna : Standard Communications P/N : 46A0427

4 - TEST SITE DESCRIPTION

Tests are performed in an anechoic chamber (size 16 m x 10 m x 11 m)
Walls, ceilling 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.

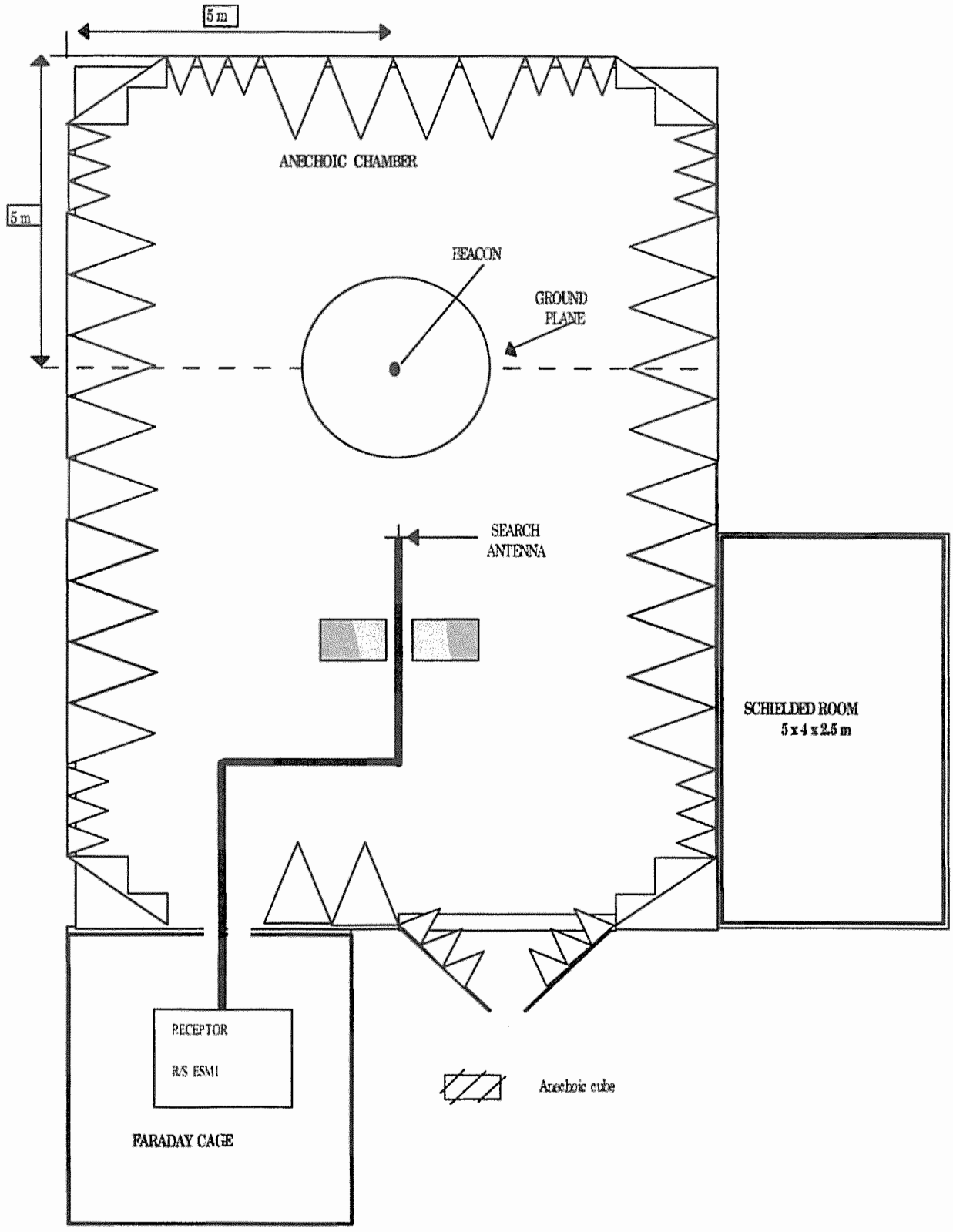


FIGURE 1

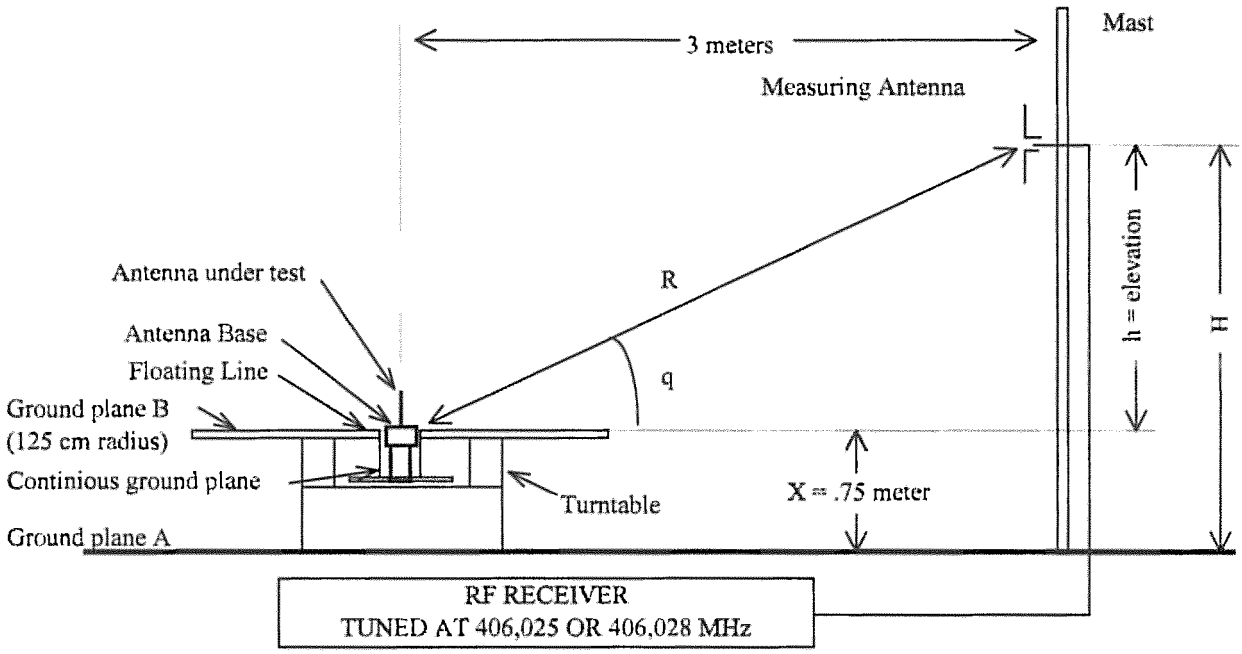


FIGURE B2c : Equipement Test Set Up For BEACON Antenna Test
(For BEACON designed for normal operation in water, ex: EPIRB)

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 dBµV/m at 3 m far from the EPIRB for all direction (0° to 360° by step of 30°) and for search antenna elevation (10° to 50°). Search antenna is left in vertical and horizontal position for all elevations . Lenght of search antenna is adjusted to proper l/2 λ conditions .

4/ An ERP (Equivalent Radiated Power) from the PLB is calculated

5/ ERP is corrected with ERP_{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 (dBµV 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 (Theoritical directivity shown paragraph B-5-4 of C/S T007) as :

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

- 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 :

$$EdB\mu V/m = UdB\mu V + AF + L + DF$$

Where : $UdB\mu V = 20\log(CorV_v^2 + V_h^2)^{1/2}$

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_{LOSS}
406 MHz	36,1 dBm	36,6 dBm	-0,5 dB

The ERP_{LOSS} 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 :

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

and apparent antenna gain :

$$GidB = ERPdBm - RF\ PowerdBm$$

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 dBµV	Horizontal measurement dBµV	Δ	Antenna Polarization
	0°/10°	109,9	79,3	30,5	**Vertical**

BALISE A 406 MHz	Standard Communications MT400 S/N : C204	Date :	26/03/2003

P2 P. pied d'ant à T°C min/24h : 36,6 dBm
P1 P. pied d'antenne à 22°C : 36,1 dBm
ERP(loss) P1-P2 : -0,5

Pertes du cable :	3,5

A.F. DIPOLE :	21

ANGLE D'ELEV.	Dm en dB	Df en dB
10	-0,19	0,13
20	-0,78	0,54
30	-1,76	1,25
40	-3,16	2,31
50	-5,05	3,84

Df (Distance factor)= 20*LOG(1/COS A)

Dm (Directivity factor)= 20*LOG(COS(90*SIN A)/COS A)

$CVv_{rec} = Vv_{rec} - Dm$ | $Vt_{rec}=20\log((CVv^2+Vh^2)^{1/2})$

E(dBµV/m) = U(dBµV)+AF+Cable+Df

Angle en °	Hauteur m	Affichage		
10	1,28	1,78	Hauteur (m)	0,75
20	1,84	2,34	plan de sol	
30	2,48	2,98	Distance (m)	3
40	3,27	3,77	mesure	
50	4,33	4,83	Offset (m)	0,5

Hauteur = Hauteur plan de sol + Distance de mesure * TAN(A)

E.R.P. (w) = (E^2(V/m) * R^2(m)) / 30

GAIN (dB) = E.R.P. (dBm) - Pt (dBm)

CALCUL DU CHAMP

Vv_{rec}-Vh_{rec} < à 10 dB

ELEVATION ANGLE (degrés)

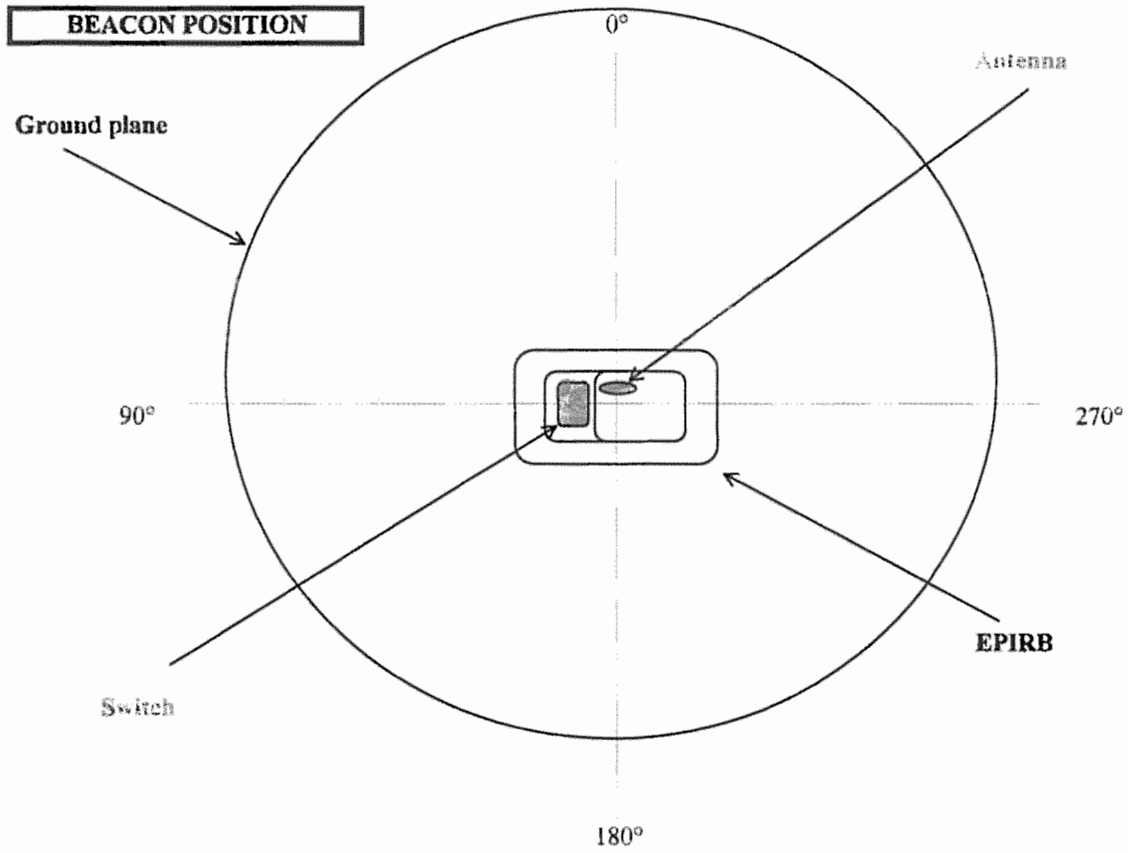
AZIMUTH (degrés)	10						20						30					
	Tension dBµV					Champ dBµV/m	Tension dBµV					Champ dBµV/m	Tension dBµV					Champ dBµV/m
	Vv_{rec}	$CorVv_{rec}$	Vh_{rec}	Ecart	Vt_{rec}		Vv_{rec}	Cor Vv_{rec}	Vh_{rec}	Ecart	Vt_{rec}		Vv_{rec}	Cor Vv_{rec}	Vh_{rec}	Ecart	Vt_{rec}	
0	109,7	109,9	79,3	30,5	109,9	134,5	111,2	111,9	79,0	32,9	112,0	137,0	111,3	113,1	85,7	27,4	111,3	138,3
30	109,5	109,7	80,5	29,2	109,7	134,3	111,3	112,1	83,2	28,9	112,1	137,2	111,3	113,1	82,0	31,1	111,3	138,3
60	109,2	109,4	75,7	33,7	109,4	134,0	111,3	112,1	80,5	31,6	112,1	137,2	111,3	113,1	82,2	30,9	111,3	138,3
90	109,2	109,4	78,2	31,2	109,4	134,0	111,2	111,9	79,2	32,8	112,0	137,0	111,2	112,9	82,8	30,1	111,2	138,2
120	109,2	109,4	80,3	29,0	109,4	134,0	111,2	111,9	82,7	29,3	112,0	137,0	111,2	112,9	84,8	28,1	111,2	138,2
150	109,3	109,5	80,7	28,9	109,5	134,2	111,2	111,9	81,5	30,4	112,0	137,0	111,2	112,9	84,8	28,1	111,2	138,2
180	109,7	109,9	81,0	28,9	109,9	134,5	111,2	111,9	78,3	33,6	112,0	137,0	111,0	112,8	86,5	26,3	111,0	138,0
210	109,5	109,7	83,7	26,0	109,7	134,3	111,0	111,8	82,7	29,1	111,8	136,8	111,0	112,8	84,7	28,1	111,0	138,0
240	109,7	109,9	80,5	29,4	109,9	134,5	111,2	111,9	79,3	32,6	112,0	137,0	111,0	112,8	85,7	27,1	111,0	138,0
270	109,5	109,7	79,0	30,7	109,7	134,3	111,0	111,8	78,8	32,9	111,8	136,8	111,0	112,8	85,7	27,1	111,0	138,0
300	109,3	109,5	84,7	24,9	109,5	134,2	111,0	111,8	83,5	28,3	111,8	136,8	111,2	112,9	85,0	27,9	111,2	138,2
330	109,3	109,5	79,0	30,5	109,5	134,2	111,3	112,1	82,0	30,1	112,1	137,2	111,3	113,1	86,5	26,6	111,3	138,3
360	109,7	109,9	79,3	30,5	109,9	134,5	111,2	111,9	79,3	32,6	112,0	137,0	111,5	113,3	85,7	27,6	111,5	138,5
Champ moyen	109,4	109,6	80,1	29,5	109,6	134,3	111,2	111,9	80,8	31,2	111,9	137,0	111,2	113,0	84,8	28,2	111,2	138,2

Vv_{rec}-Vh_{rec} < à 10 dB

	40						50					
AZIMUTH (degrés)	Tension dBµV					Champ dBµV/m	Tension dBµV					Champ dBµV/m
	Vv_{rec}	Cor Vv_{rec}	Vh_{rec}	**Ecart**	Vt_{rec}		Vv_{rec}	Cor Vv_{rec}	Vh_{rec}	**Ecart**	Vt_{rec}	
0	106,0	109,2	76,3	32,8	109,2	136,0	96,0	101,1	88,0	13,1	101,3	129,6
30	106,0	109,2	78,0	31,2	109,2	136,0	96,3	101,4	89,2	12,2	101,6	130,0
60	106,0	109,2	82,7	26,5	109,2	136,0	96,0	101,1	90,8	10,2	101,4	129,8
90	105,8	109,0	81,3	27,7	109,0	135,8	96,0	101,1	91,2	9,9	101,5	129,8
120	106,0	109,2	77,5	31,7	109,2	136,0	96,2	101,2	90,7	10,6	101,6	129,9
150	106,0	109,2	77,5	31,7	109,2	136,0	96,5	101,6	90,5	11,1	101,9	130,2
180	106,0	109,2	76,3	32,8	109,2	136,0	96,5	101,6	90,3	11,2	101,9	130,2
210	105,8	109,0	76,7	32,3	109,0	135,8	96,2	101,2	90,5	10,7	101,6	129,9
240	105,7	108,8	75,5	33,3	108,8	135,7	95,8	100,9	90,3	10,6	101,2	129,6
270	105,5	108,7	72,8	35,8	108,7	135,5	95,7	100,7	89,3	11,4	101,0	129,4
300	105,8	109,0	64,2	44,8	109,0	135,8	95,7	100,7	88,0	12,7	100,9	129,3
330	106,0	109,2	72,8	36,3	109,2	136,0	95,8	100,9	86,5	14,4	101,0	129,4
360	106,0	109,2	76,0	33,2	109,2	136,0	96,2	101,2	88,0	13,2	101,4	129,8
Champ moyen	105,9	109,1	76,0	33,1	109,1	135,9	96,1	101,1	89,5	11,6	101,4	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

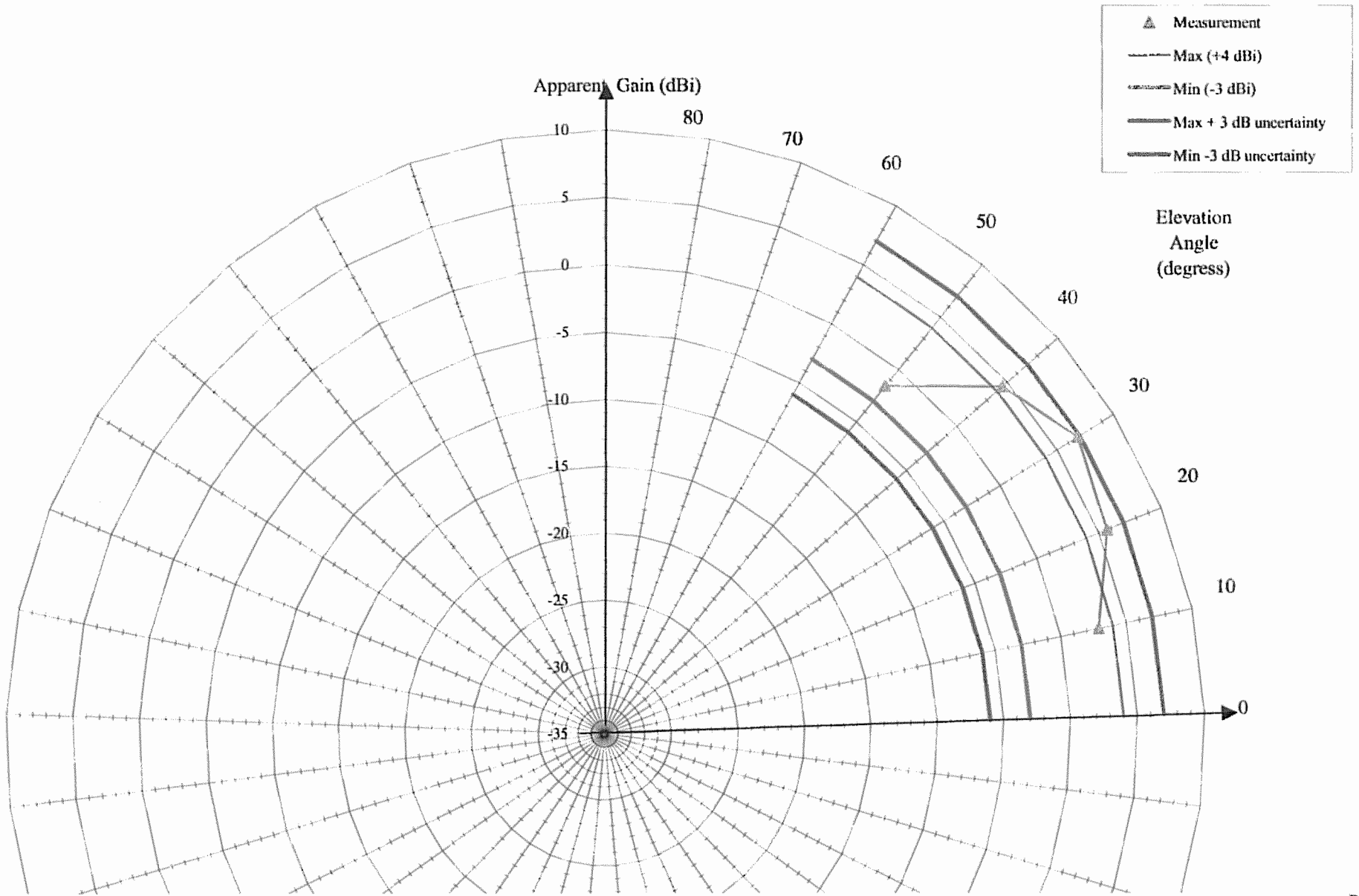
The ERP Beacon is just in the ERP reference.

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
Average	39,02	2,92	41,76	5,66	42,94	6,84	40,64	4,54	34,53	-1,57
Overall Gain Variation	0,50 dB		0,33 dB		0,33 dB		0,51 dB		0,93 dB	

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

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


Measurement
Max (+4 dBi)
Min (-3 dBi)
Max + 3 dB uncertainty
Min -3 dB uncertainty
Apparent Gain (dBi)
10
5
0
-5
-10
-15
-20
-25
-30
-35
80
70
60
50
40
30
20
10
0
Elevation Angle (degress)

ANNEX B

MANUFACTURER DOCUMENTATION ON MT400 STANDARD COMMUNICATIONS PTY. LTD. EPIRB

ANNEX C

APPLICATION FOR A COSPAS-SARSAT 406 MHz BEACON TYPE APPROVAL CERTIFICATE

Beacon Manufacturer: __ *STANDARD COMMUNICATIONS PTY. LTD.* _____

Beacon Model: __ *MT400* _____

Name and Location of Beacon Test Facility: __ *INTESPACE, Toulouse (France)* _____

Beacon Type: Aviation: --- Land: --- Maritime: ✓

Specified Operating Temperature Range: *-20* °C to *+55* °C

Specified Operating Lifetime: 24 hr. --- 48 hr. ✓ Other --- Specify: ---

Beacon Battery Type(s):

Chemistry: _ *LITHIUM SULPHUR DIOXIDE (LiSO2)* _____

Manufacturer & model no.: _ *SAFT, LO 26 SX* _____

Size & number of cells: __ *D SIZE (R20-D), QUANTITY TWO (2)* _____

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

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

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

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Specification | Performance

Modes of operation	
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
Operational	
Duration	48hrs minimum continuous
Warm-up	None required, full specification performance at activation
User Data	Programmable via external interface
Protocol	All Short Protocols supported and programmable via external interface (refer to manufacturer for currently approved protocols)
406 Repetition Period	50s nominal, fully random variance up to ± 2.5s maximum
Strobe Rate	20 flashes nominal per minute
Transmission Frequencies	
VHF	121.5MHz
UHF	406.028 MHz (programmable 406.000MHz to 406.100MHz)
Transmission Output Power	
VHF	50mW ± 3dB (PERP)
UHF	5W ± 2dB
Modulation Format	
406MHz	Phase shift key (PSK)
121.5MHz	Swept tone amplitude modulation
COSPAS/SARSAT Compatibility	
406MHz	Yes, meets requirements of C/S T.001 (Class 2)
121.5MHz	Yes, is phase coherent
Activation	
Method	Manually activated by slider switch
Delay	Will not transmit until activated for 60s~70s
Battery	
Replacement period	Within 5 years after date of manufacture
Replacement method	Service centre, or factory only (non-user replaceable)
Chemistry	$LiSO_2$
No./Size	2 D size cells
Physical	
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	**STANDARD COMMUNICATIONS PTY LTD** 6 Frank St. Gladesville (PO Box 296) NSW 2111 AUSTRALIA ABN: 93 000 346 814				
CHECKED BY L.May	TITLE **MT400 EPIRB, Technical Data Sheet**				
APPROVED BY C.J.W.Duncan	PART NO	DRAWING NO **41843**	REVISION **1**	SHEET 1 OF 2 FILE: 41843-1.DOC	A4

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

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Specification | Performance

Temperature	
Operating	-20°C to +55°C
Storage	-30°C to +70°C
Size	Typical complete, unit in bracket with antenna stowed
Height	260mm (max)
Width	102mm (max)
Depth	83mm (max)
Weight	
Beacon	535g (typical, including battery cells)
Bracket	98g (typical)
Other Features	
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

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

MT400 406MHz EPIRB

PHOTOGRAPHS OF TEST UNIT