

7 Referências bibliográficas

1. Manning, Trevor. **Microwave Radio Transmission Design Guide**. Norwood: Artech House, 1999.
2. Dhein, Ney Roberto. **Sistemas Rádios Digitais**, CETUC, PUC-Rio, 2001.
3. Dhein, Ney Roberto. **Elementos de Propagação em Visibilidade Direta**, CETUC, PUC-Rio, 1998.
4. Doble, John. **Introduction to Radio Propagations for Fixed and Mobile Communications**. Norwood: Artech House, 1996.
5. Pontes, Marlene Sabino.; Dhein, Ney Roberto. **Notas de Aula Curso Radiometeorologia**, CETUC, PUC-Rio, Julho 2003.
6. Mello, Luiz A. R. da Silva.; Pontes, Marlene Sabino.; Costa, Márcio Eduardo Rodrigues. **Rádio Propagação – Notas de Aula**, CETUC, PUC-Rio, maio 2000.
7. Miyoshi, Edson Mitsugo.; Sanches, Carlos Alberto. **Projeto de Sistemas Rádio**. 2 ed. São Paulo: Érica, 2002.
8. Alcatel. **Curso Rádio Digital**, 1998.
9. Recomendação ITU-T G.826, agosto 1996.
10. Recomendação ITU-R F. 1092-1, 1997.
11. Recomendação ITU-R F. 695, 1990.
12. Recomendação ITU-R F. 1093-1, 1997.
13. Recomendação ITU-R P. 530-10, 2001.
14. Alcatel. **Manual Técnico do Operador, Gerenciador de Elementos de Redes SDH e Ópticas da Alcatel**, 1353SH Rel. 5.2.1.
15. Alcatel. **Manual Técnico do Operador, Gerenciador de Redes Regionais para Redes SDH e Ópticas da Alcatel**, 1354RM Rel. 5.1.

16. Embratel. **Hierarquia Digital Síncrona (SDH) Básica**, outubro 1994.
17. Koppen; Geiger. **O clima no Mundo**, disponível em <http://www.climabrasileiro.htpg.ig.com.br/indexhtm>

8 Anexos

ANEXO A

Transport	TP object	Granularity	NE	TP	From	BBE	ES	SES	FEBBE	FEES	FESES	UASBID	PJC	LOD
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	20/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	21/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	22/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	23/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	24/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	25/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	26/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	27/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	28/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	29/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	30/6/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	1/7/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	2/7/2002 00:00	-2	-2	-2	-2	-2	-2	-2	-2	-2
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	3/7/2002 00:00	9	1	0	0	2	2	0	11	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	4/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	5/7/2002 00:00	171	8	0	22	1	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	6/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	7/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	8/7/2002 00:00	28	5	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	9/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	10/7/2002 00:00	0	0	2	1	0	0	0	3	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	11/7/2002 00:00	0	0	0	0	0	0	0	0	5
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	12/7/2002 00:00	4	30	29	5905	120	102	101	230	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	13/7/2002 00:00	5573	358	281	135634	1325	740	26824	6149	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	14/7/2002 00:00	3378	23	15	3885	191	20	51319	81	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	15/7/2002 00:00	71	174	169	271190	1327	721	1221	3476	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	16/7/2002 00:00	38	9	5	35	2	0	0	2	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	17/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	18/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	19/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	20/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	21/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	22/7/2002 00:00	0	0	0	48	6	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	23/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	24/7/2002 00:00	0	0	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	25/7/2002 00:00	0	0	12	1	0	464	2	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	26/7/2002 00:00	1175	23	11	1350	58	27	415	25	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	27/7/2002 00:00	16	9	5	1970	63	19	3976	24	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	28/7/2002 00:00	8	1	0	0	0	0	0	0	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	29/7/2002 00:00	244	16	15	342484	1215	102	771	7	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	30/7/2002 00:00	0	0	0	0	0	0	0	4	0
CBA MC JTI RLINE VC4S 001	VC4	24 hours	41JTI_01	41JTI_01/sr1sl05/EIAggWStm1#01 01	31/7/2002 00:00	0	0	0	0	0	0	0	0	0

ANEXO B

DIAS	TOTAL	BBE	ES	SES	UAS	FEBBE	FEES	FESES	FEUAS	UASBID	PJC	PJCHigh	PJCLow	LOD	soma SES
29 jul-02	10715	5219101	86245	25285	0	6853051	150373	12333	0	139116	1241920	0	0	0	37618
31 ago-02	1898	10715	657	530	0	762537	4312	1733	0	85091	10019	0	0	0	2263
30 set-02	2021	1898	44	21	0	1767589	3133	707	0	3589	340	0	0	0	728
30 out-02	30872	2021	138	62	0	19074	631	235	0	23	98	0	0	0	297
12 nov-02	193717	30872	596	215	0	343602	4611	1667	0	598	540	0	0	0	1882
31 dez-02	1669619	193717	7549	2078	0	20712	1367	262	0	3211	911	0	0	0	2340
31 jan-03	77618	1669619	46227	16120	0	203735	8440	1531	0	22503	549	0	0	0	17651
28 fev-03	853691	77618	3718	1145	0	36230	1196	290	0	3336	580	0	0	0	1435
30 mar-03	469385	853691	12284	2361	0	3082416	69348	4275	0	15249	1224965	0	0	0	6636
30 abr-03	1508532	469385	8622	1833	0	578340	53367	425	0	809	2302	0	0	0	2258
31 mai-03	357276	1508532	4349	354	0	22036	1768	535	0	979	1138	0	0	0	889
28 jun-03	20528	357276	1195	361	0	10719	882	267	0	3279	99	0	0	0	628
31 jul-03	22983	20528	513	64	0	2536	111	14	0	0	120	0	0	0	78
30 ago-03	246	22983	282	90	0	3655	109	10	0	0	35	0	0	0	100
		246	71	51	0	5870	1098	382	0	449	224	0	0	0	433

ANEXO C

SMS CBA-JTI CD1

DIAS	PERIODO	BBE	ES	SES	FEBBE	FEES	FESES	UASBID	PJC	soma SES
402	jul-02 a ago-03	5219101	86245	25285	6853051	150373	12333	139116	1241920	37618
29	jul-02	10715	657	530	762537	4312	1733	85091	10019	2263
31	ago-02	1898	44	21	1767589	3133	707	3589	340	728
30	set-02	2021	138	62	13074	631	235	23	98	297
30	out-02	30872	596	215	343602	4611	1667	598	540	1882
12	nov-02	193717	7549	2078	20712	1367	262	3211	911	2340
31	dez-02(pior mês)	1669619	46227	16120	203735	8440	1531	22503	549	17651
RAZAO INDICADOR			1,78E-02	6,22E-03		3,26E-03	5,91E-04			6,87E-03
31	jan-03	77618	3718	1145	36230	1196	290	3336	580	1435
28	fev-03	853691	12284	2361	3082416	69348	4275	15249	1224965	6636
30	mar-03	469385	8622	1833	578340	53367	425	809	2302	2258
30	abr-03	1508532	4349	354	22036	1768	535	979	1138	889
31	mai-03	357276	1195	361	10719	882	267	3279	99	628
28	jun-03	20528	513	64	2536	111	14	0	120	78
31	jul-03	22983	282	90	3655	109	10	0	35	100
30	ago-03	246	71	51	5870	1098	382	449	224	433

ANEXO D

NE:	AEU6G					
TP:	AEU6G/r1sr2sl01/RadioSdhStm1#0W / SRS					
Window:	day					
TimeStamp	LOD	ER	ES	SES	UAS	
6/1/2003 00:00	NM	NM	NM	NM	NM	
16/6/2003 00:00	0		0	0	0	0
17/6/2003 00:00	3	150	5	4	0	0
18/6/2003 00:00	0	18	1	0	0	0
19/6/2003 00:00	0	59	2	2	0	0
20/6/2003 00:00	0	132	8	5	0	0
21/6/2003 00:00	0	682	32	22	0	0
22/6/2003 00:00	0	41	1	1	0	0
23/6/2003 00:00	0	91	4	2	0	0
24/6/2003 00:00	0	7066	2	0	0	0
25/6/2003 00:00	3	75	4	3	0	0
26/6/2003 00:00	0	0	0	0	0	0
27/6/2003 00:00	0	0	0	0	0	0
28/6/2003 00:00	0	120	4	4	0	0
29/6/2003 00:00	0	0	0	0	0	0
30/6/2003 00:00	0	207	8	4	0	0
1/7/2003 00:00	0	0	0	0	0	0
2/7/2003 00:00	0	0	0	0	0	0
3/7/2003 00:00	0	0	0	0	0	0
4/7/2003 00:00	0	0	0	0	0	0
5/7/2003 00:00	0	0	0	0	0	0
6/7/2003 00:00	0	0	0	0	0	0
7/7/2003 00:00	0	0	0	0	0	0
8/7/2003 00:00	0	0	0	0	0	0
9/7/2003 00:00	0	91	2	1	0	0
10/7/2003 00:00	0	644	15	1	0	0
11/7/2003 00:00	0	0	0	0	0	0
12/7/2003 00:00	3	0	0	0	0	0
13/7/2003 00:00	0	0	0	0	0	0
14/7/2003 00:00	0	0	0	0	0	0
15/7/2003 00:00	0	1657	39	23	0	0

ANEXO E

NE:	CBAMC6G-CGI				
TP:	CBAMC6G-CGI/r1sr2sl01/RadioSdhStm1#0 / SRS				
Window:	day				
TimeStamp	LOD	ER	ES	SES	UAS
5/1/2003 00:00	NM	NM	NM	NM	NM
16/6/2003 00:00	3	0	0	0	0
17/6/2003 00:00	0	0	0	0	0
18/6/2003 00:00	0	0	0	0	0
19/6/2003 00:00	0	0	0	0	0
20/6/2003 00:00	0	0	0	0	0
21/6/2003 00:00	0	0	0	0	0
22/6/2003 00:00	0	0	0	0	0
23/6/2003 00:00	0	0	0	0	0
24/6/2003 00:00	3	0	0	0	0
25/6/2003 00:00	3	0	0	0	0
26/6/2003 00:00	2	0	0	0	0
27/6/2003 00:00	2	0	0	0	0
28/6/2003 00:00	0	0	0	0	0
29/6/2003 00:00	0	0	0	0	0
30/6/2003 00:00	0	0	0	0	0
1/7/2003 00:00	3	0	0	0	0
2/7/2003 00:00	3	42	2	0	0
3/7/2003 00:00	0	0	0	0	0
4/7/2003 00:00	3	0	0	0	0
5/7/2003 00:00	0	0	0	0	0
6/7/2003 00:00	0	0	0	0	0
7/7/2003 00:00	0	0	0	0	0
8/7/2003 00:00	0	0	0	0	0
9/7/2003 00:00	0	0	0	0	0
10/7/2003 00:00	3	44	1	0	0
11/7/2003 00:00	0	45	2	0	0
12/7/2003 00:00	0	44	2	1	0
13/7/2003 00:00	0	0	0	0	0
14/7/2003 00:00	3	0	0	0	0
15/7/2003 00:00	0	0	0	0	0

ANEXO F

NE:	JT16G-SZWL				
TP:	JT16G-SZWL/r1sr2sl04/RadioSdhStm1#1 / SRS				
Window:	day				
From:	5/1/2003 00:00				
To:	5/2/2004 00:00				
TimeStamp	LOD	ER	ES	SES	UAS
5/1/2003 00:00	NM	NM	NM	NM	NM
4/2/2003 00:00		3	526	14	9
5/2/2003 00:00		0	952	20	12
6/2/2003 00:00		0	255	3	2
7/2/2003 00:00		3	0	0	0
8/2/2003 00:00		3	65253	35	26
9/2/2003 00:00		3	440	7	6
10/2/2003 00:00		0	0	0	0
11/2/2003 00:00		0	8987	3	2
12/2/2003 00:00		3	17	1	1
13/2/2003 00:00		0	0	0	0
14/2/2003 00:00		0	2	1	0
15/2/2003 00:00		0	0	0	0
16/2/2003 00:00		0	0	0	0
17/2/2003 00:00		3	0	0	0
18/2/2003 00:00		0	34	2	1
19/2/2003 00:00		0	12	1	1
20/2/2003 00:00		0	0	0	0
21/2/2003 00:00		0	0	0	0
22/2/2003 00:00		0	0	0	0
23/2/2003 00:00		0	4	1	0
24/2/2003 00:00		0	107	6	0
25/2/2003 00:00		0	865	7	7
26/2/2003 00:00		0	2836	23	20
27/2/2003 00:00		0	0	0	0
28/2/2003 00:00		3	27485876	0	0
TOTAL FEV03	25 DIAS			124	87
RAZÃO IND.		2160000		5,74306E-05	4,02940E-05
					871
					%TEMPO 83%

ANEXO G

NE:	CBAMC6G-CGI	
TP:	CBAMC6G-CGI/r1sr2sl04/RadioSdhStm1#1 / SRS	CD1 DIR CGI
Window:	day	

TimeStamp	LOD	ER	ES	SES	UAS
5/1/03		NM	NM	NM	NM
16/6/03		3	0	0	0
17/6/03		0	0	0	0
18/6/03		0	0	0	0
19/6/03		0	0	0	0
20/6/03		0	0	0	0
21/6/03		0	0	0	0
22/6/03		0	0	0	0
23/6/03		0	0	0	0
24/6/03		3	0	0	0
25/6/03		3	0	0	0
26/6/03		2	0	0	0
27/6/03		2	0	0	0
28/6/03		0	0	0	0
29/6/03		0	0	0	0
30/6/03		0	0	0	0
TOTAL JUN03	15 DIAS			0	0
RAZÃO IND.		1296000		0	0

ANEXO H

soma rota cba-gna

OD1

PERIODO	BBE	ES	SES	FEBBE	FEES	FESES	UASBID	PJC	soma SES	%mês
jul-02 a ago-03	5233641	88183	25786	7227956	155291	12991	151964	1251623	39777	
jul-02	10992	700	562	1129922	8834	2359	86945	17564	2921	
ago-02	1965	70	40	1767803	3192	713	10913	344	753	
set-02	2072	145	64	13235	679	237	23	125	301	
out-02	34611	676	245	345647	4717	1674	598	849	1919	
nov-02	197487	7594	2102	21243	1404	267	3231	1136	2369	
dez-02	1670222	46257	16146	204048	8452	1532	22503	582	17678	
Taxa do Indicador (pior mês)		1,80E-02	6,28E-03		3,29E-03	5,96E-04			6,88E-03	100%
jan-03	77797	3735	1156	36721	1221	290	3336	702	1446	
fev-03	853709	12323	2398	3082620	69356	4275	15288	1225018	6673	
mar-03	470182	8758	1921	578482	53377	425	2096	2986	2346	
abr-03	1511680	5573	1350	22335	1781	537	3301	1521	1887	
mai-03	358028	1258	413	11316	898	270	3279	101	683	
jun-03	20613	528	78	2538	114	16	0	189	94	
jul-03	23710	471	244	5025	163	14	0	37	258	
ago-03	573	95	67	7021	1103	382	449	469	449	

ANEXO I

SOMATÓRIO DOS RESULTADOS DAS 3 SMS DA ROTA
CBA - GNA - 01JUN03 - 31MAR04

	DIAS	PERIODO	ES	SES	FEES	FESES	SOMA SES
	28 DIAS	jun-03	528	78	114	16	94
RAZÃO IND.			2,18E-04	3,19E-05	4,70E-05	6,56E-06	3,84E-05
	30 DIAS	jul-03	471	244	163	14	258
RAZÃO IND.			1,82E-04	9,41E-05	6,29E-05	5,40E-06	9,95E-05
	30 DIAS	ago-03	95	67	1103	382	449
RAZÃO IND.			3,70E-05	2,61E-05	4,26E-04	1,47E-04	1,73E-04
	30 DIAS	set-03	137	92	421	123	215
RAZÃO IND.			5,29E-05	3,55E-05	1,62E-04	4,75E-05	8,29E-05
	30 DIAS	out-03	75872	1377	18625	3420	4797
RAZÃO IND.			2,93E-02	5,31E-04	7,19E-03	1,32E-03	1,85E-03
	29 DIAS	nov-03	808	275	464	188	463
RAZÃO IND.			3,23E-04	1,10E-04	1,85E-04	7,51E-05	1,85E-04
	29 DIAS	dez-03	179	112	800	320	432
RAZÃO IND.			6,98E-05	4,36E-05	3,12E-04	1,25E-04	1,68E-04
	30 DIAS	jan-04	162	110	1465	185	295
RAZÃO IND.			6,29E-05	4,27E-05	5,69E-04	7,19E-05	1,15E-04
	29 DIAS	fev-04	4066	243	1503	519	762
RAZÃO IND.			1,62E-03	9,70E-05	6,00E-04	2,07E-04	3,04E-04
	30 DIAS	mar-04	615	397	660	96	493
RAZÃO IND.			2,39E-04	1,55E-04	2,57E-04	3,73E-05	1,92E-04

ANEXO J

ESTAÇÃO : PSLD						
TP:	PSLD6G/r1sr2sl04/RadioSdhStm1#1W / SRS			CD1 DIR IDR		
		INDICADORES				
		SEGUNDOS VÁLIDOS NO MÊS	ES	SES	UAS	
TOTAL JUN03		15 DIAS	22	1		0 %TEMPO
RAZÃO IND.		1296000	1,69753E-05	7,72E-07		50%
TOTAL JUL03		30 DIAS	134	22		0 %TEMPO
RAZÃO IND.		2592000	5,16975E-05	8,49E-06		100%
TOTAL AGO03		30 DIAS	3	2	16	%TEMPO
RAZÃO IND.		2592000	1,15741E-06	7,72E-07		100%
TOTAL SET03		30 DIAS	4	1		0 %TEMPO
RAZÃO IND.		2592000	1,54321E-06	3,86E-07		100%
TOTAL OUT03	pior mês	23 DIAS	672	83	1067	%TEMPO
RAZÃO IND.		1987200	0,000338346	4,18E-05		77%
TOTAL NOV03		27 DIAS	23	18		0 %TEMPO
RAZÃO IND.		2332800	9,8594E-06	7,72E-06		90%
TOTAL DEZ03		30 DIAS	52	41		0 %TEMPO
RAZÃO IND.		2592000	2,00617E-05	1,58E-05		100%
TOTAL JAN04		30 DIAS	14	9		0 %TEMPO
RAZÃO IND.		2592000	5,40123E-06	3,47E-06		100%

ANEXO K

GNAMS6G						
TP:	GNAMS6G/r1sr2sl04/RadioSdhStm1#1 / SRS			CD1 DIR PSLD		
		INDICADORES				
		SEGUNDOS VÁLIDOS NO MÊS	ES	SES	UAS	
TOTAL JUN03		15 DIAS	1	1		0 %TEMPO
RAZÃO IND.		1296000	7,71605E-07	7,71605E-07		50%
TOTAL JUL03		30 DIAS	26	24		0 %TEMPO
RAZÃO IND.		2592000	1,00309E-05	9,25926E-06		100%
TOTAL AGO03		30 DIAS	9	9		0 %TEMPO
RAZÃO IND.		2592000	3,47222E-06	3,47222E-06		100%
TOTAL SET03		30 DIAS	3	2		0 %TEMPO
RAZÃO IND.		2592000	1,15741E-06	7,71605E-07		100%
TOTAL OUT03	pior mês	23 DIAS	164	181	829	%TEMPO
RAZÃO IND.		1987200	8,25626E-05	8,10523E-05		77%
TOTAL NOV03		27 DIAS	18	15		0 %TEMPO
RAZÃO IND.		2332800	7,71605E-06	6,43004E-06		90%
TOTAL DEZ03		30 DIAS	44	42		0 %TEMPO
RAZÃO IND.		2592000	1,69753E-05	1,62037E-05		100%
TOTAL JAN04		30 DIAS	8	8		0 %TEMPO
RAZÃO IND.		2592000	3,08642E-06	3,08642E-06		100%

ANEXO L1 – SENTIDO CBA – GNA

Desempenho da Rota CBA-GNA Sentido de CBA para GNA				
Período: Jun03 a jan04				
		INDICADORES		
		ES	SES	UAS
TOTAL JUN03		609	392	53865
RAZÃO IND.		0,000355529	0,000230906	
TOTAL JUL03		1062	602	5061
RAZÃO IND.		0,000409758	0,000231897	
TOTAL AGO03		211	154	26
RAZÃO IND.		8,14043E-05	5,94136E-05	
TOTAL SET03		339	270	0
RAZÃO IND.		0,000130814	0,000104167	
TOTAL OUT03	pior mês	99241	3952	21101
RAZÃO IND.		0,0502375	0,00199746	
TOTAL NOV03		1655	508	17644
RAZÃO IND.		0,000723081	0,000228222	
TOTAL DEZ03		748	534	102
RAZÃO IND.		0,000288581	0,000206019	
TOTAL JAN04		462	368	0
RAZÃO IND.		0,000178627	0,000142361	

ANEXO L2 – SENTIDO GNA – CBA

Desempenho da Rota CBA-GNA Sentido de GNA para CBA				
Período: Jun03 a jan04				
		INDICADORES		
		ES	SES	UAS
TOTAL JUN03		203	106	0
RAZÃO IND.		0,000152006	7,83179E-05	
TOTAL JUL03		235	81	31
RAZÃO IND.		9,06639E-05	3,12502E-05	
TOTAL AGO03	pior mês	1983	1243	56845
RAZÃO IND.		0,000768256	0,000480419	
TOTAL SET03		611	455	23
RAZÃO IND.		0,000235843	0,00017554	
TOTAL OUT03		9976	438	466
RAZÃO IND.		0,00502046	0,00022042	
TOTAL NOV03		403	261	27424
RAZÃO IND.		0,000172875	0,00011934	
TOTAL DEZ03		754	343	38512
RAZÃO IND.		0,000291534	0,00013242	
TOTAL JAN04		1367	302	425
RAZÃO IND.		0,000527536	0,000116516	

ANEXO M

ANÁLISE POR SRS						
MEDIDO NO RÁDIO						
Seção Regeneradora	SENTIDO PIOR VALOR	PIOR MÊS	% TEMPO MEDIDO	SESR MEDIDO PIOR MÊS	SESR CALCULADO PIOR MÊS	
CBA-CGI	CBA DIR CGI (O-L)	out/03	77	4,03E-06	4,11E-06	
CGI-SJDS	SJDS-CGI (L-O)	ago/03	100	3,86E-06	5,67E-06	
SJDS-PSTA	PSTA-SJDS (L-O)	ago/03	100	3,47E-06	1,14E-06	
PSTA-ROIFS	ROIFS-PSTA (L-O)	jul/03	100	1,00E-05	1,14E-05	
ROIFS-PXP	ROIFS-PXP (O-L)	ago/03	100	1,12E-04	1,15E-05	
PXP-SVIA	PXP-SVIA (O-L)	ago/03	100	1,16E-04	-	
SVIA-ALT	SVIA DIR ALT (O-L)	ago/03	100	1,06E-04	2,87E-06	
ALT-ALU	ALU DIR ALT (L-O)	jun/03	100	4,01E-05	2,07E-06	
ALU-PEZ	ALU DIR PEZ (O-L)	out/03	77	4,93E-05	5,08E-06	
PEZ-MNI	PEZ DIR MNI (O-L)	out/03	77	4,23E-05	6,59E-06	
MNI-SZWL	SZWL DIR MNI (L-O)	out/03	77	1,02E-03	4,10E-07	
SZWL-JTI	JTI DIR SZWL (L-O)	out/03	77	6,40E-04	3,23E-06	
JTI-BNCF	BNCF DIR JTI (L-O)	jul/03	100	4,63E-05	3,29E-07	
BNCF-RVD	RVD DIR BNCF (L-O)	out/03	77	6,19E-05	4,41E-06	
RVD-SAAB	RVD DIR SAAB (O-L)	out/03	77	2,42E-05	1,18E-05	
SAAB-AEU	AEU DIR SAAB (L-O)	out/03	77	3,77E-05	1,21E-05	
AEU-IDR	IDR DIR AEU (L-O)	out/03	77	3,27E-05	3,29E-06	
IDR-PSLD	PSLD DIR IDR (L-O)	out/03	77	4,18E-05	1,28E-06	
PSLD-GNA	GNA DIR PSLD (L-O)	out/03	77	8,11E-05	3,58E-07	