

FCC ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CERTIFICATION TO FCC PART 15 REQUIREMENTS

for

INTENTIONAL RADIATOR

of

Universal Replacement Remote Control

FCC ID Number : OAVAR99TX

Trade Name : ALLREMOTE

Model Number : AR99

Agency Series : N/A

Report Number : 02E0457-D

Date : September 23, 2002

Prepared for :

ALTRUSTY ENTERPRISE CO., LTD.

**4F. No. 3, Alley 16, Lane 235, Bau Chiau Rd., Hsin-Tien City,
Taipei County 231, Taiwan, R.O.C.**

Prepared by :

C&C LABORATORY CO., LTD.

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C&C Laboratory Co., Ltd.**

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1. VERIFICATION OF COMPLIANCE

COMPANY NAME : ALTRUSTY ENTERPRISE CO., LTD.
4F. No. 3, Alley 16, Lane 235, Bau Chiau Rd., Hsin-Tien
City, Taipei County 231, Taiwan, R.O.C.

CONTACT PERSON : Eric Wang/ General Manager

TELEPHONE NO. : (886-2) 8665-6969

EUT DESCRIPTION : Universal Replacement Remote Control

MODEL NAME/NUMBER : AR99

FCC ID : OAVAR99TX

DATE TESTED : September 18, 2002 ~ September 20, 2002

REPORT NUMBER : 02E0457-D

TYPE OF EQUIPMENT	SECURITY EQUIPMENT (INTENTIONAL RADIATOR)
EQUIPMENT TYPE	300/310/390 MHz Universal Replacement Remote Control
MEASUREMENT PROCEDURE	ANSI 63.4 / 1992
LIMIT TYPE	CERTIFICATION
FCC RULE	CFR 47, PART 15

The above equipment was tested by C&C LABORATORY CO., LTD. for compliance with the requirements set forth in the FCC CFR 47, PART 15. The results of testing in this report apply to the product/system which was tested only. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties. **Warning:** This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by C&C LABORATORY CO., LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by C&C LABORATORY CO., LTD. will constitute fraud and shall nullify the document.

Vince Chiang For.

James Chan / Manager
C&C Laboratory Co., Ltd.

2. PRODUCT DESCRIPTION

Fundamental Frequency	300/310/390 MHz
Power Source	12V Battery
Transmitting Time	Periodic $\leq$ 5 seconds
Associated Receiver	N/A

3. TEST FACILITY

The open area test sites and conducted measurement facilities used to collect the radiated data are located at No. 199, Chung Sheng Road, Hsin Tien City, Taipei, Taiwan R.O.C. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

4. MEASUREMENT STANDARDS

The site is constructed and calibrated in conformance with the requirements of ANSI C63.4/1992.

5. TEST METHODOLOGY

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 KHz, up to at least the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. (CFR 47 Section 15.33)

6. MEASUREMENT EQUIPMENT USED

Manufacturer	Model Number	Description	Cal Due Date
ROHDE & SCHWARZ	DSAI- D 804.8932.52	EMI Test Display	10/2002
ROHDE & SCHWARZ	ESBI-RF/1005.43 00.52	EMI Test RF Unit	10/2002
H.P.	8595EM	Spectrum Analyzer (9KHz – 6.5GHz)	02/2003
EMCO	3115	Antenna (1-18GHz)	02/2003
SCHWARZBECK	VULB 9160	Antenna (30-2000 MHz)	05/2003
H.P.	8447D	Amplifier	05/2003
H.P.	8449B	Amplifier (1-26.5GHz)	10/2002

7. POWERLINE RFI LIMIT

CONNECTED TO AC POWER LINE	SECTION 15.207
CARRIER CURRENT SYSTEM IN THE FREQUENCY RANGE OF 450 kHz TO 30 MHz	SECTION 15.205 AND SECTION 15.209, 15.221, 15.223, 15.225 OR 15.227, AS APPROPRIATE.
BATTERY POWER	NO REQUIRED.

8. RADIATED EMISSION LIMITS

GENERAL REQUIREMENTS	SECTION 15.209
RESTRICTED BANDS OF OPERATION	SECTION 15.205
PERIODIC OPERATION IN THE BAND 40.66 -40.70 MHz AND ABOVE 70 MHz.	SECTION 15.231

9. SYSTEM TEST CONFIGURATION

Use a block of foam and combined it with EUT wrapping rubber band around it. This way it can test X.Y, and Z axis. To activate continuous transmission, place a small plastic block between rubber band and EUT push button.



Radiated Open Site Test Set-up

10. TEST PROCEDURE

Radiated Emissions, 15.231(4)(b)

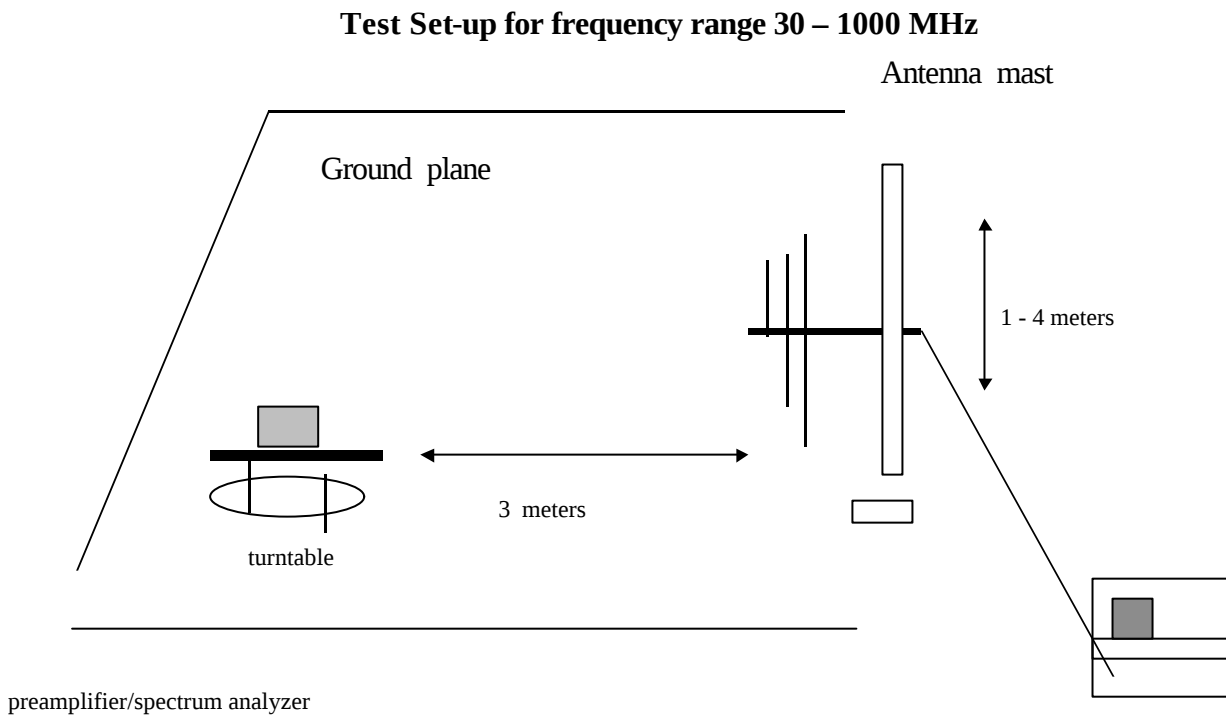


Fig. 1

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 3-meters from the EUT.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

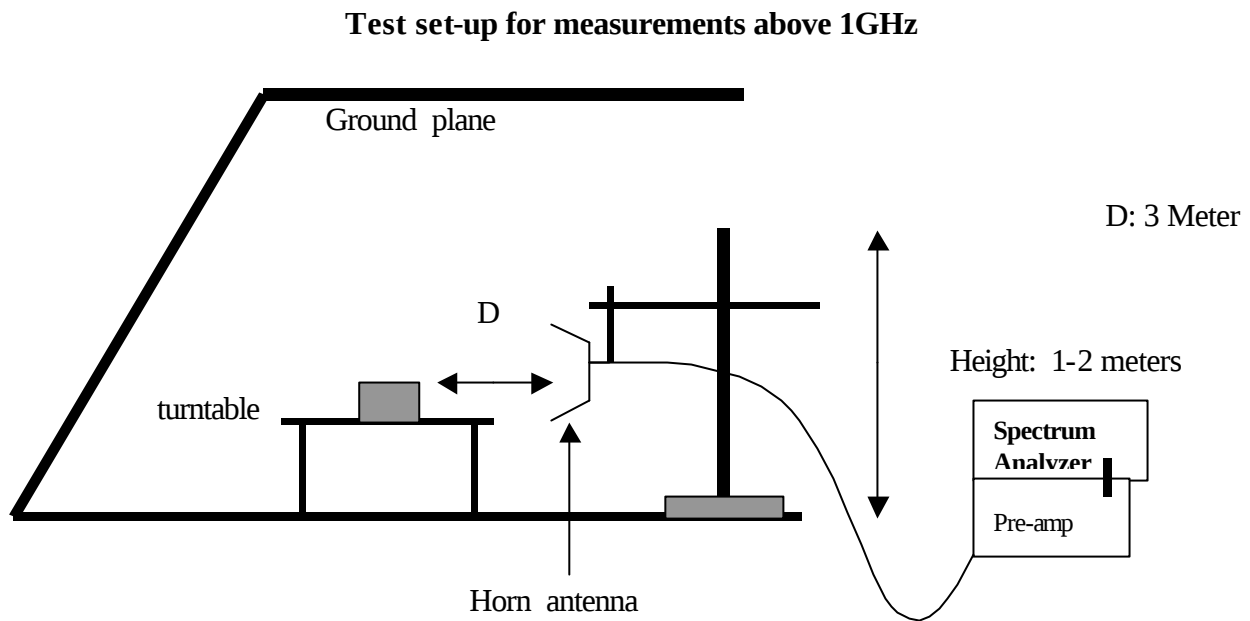


Fig. 2

1. The EUT was placed on a wooden table on the outdoor ground plane. The search antenna was placed 1-meters from the EUT. The EUT antenna was mounted vertically as per normal installation.
2. The turntable was slowly rotated to locate the direction of maximum emission at each emission falling in the restricted bands of 15.205. The EUT was moved throughout the XY, XZ, and YZ planes to maximize emissions received by the search antenna.
3. Once maximum direction was determined, the search antenna was raised and lowered in both vertical and horizontal polarizations. The maximum readings so obtained are recorded in the data listed below.

11. Equipment Modifications

To achieve compliance to FCC Section 15.231 technical limits, the following change(s) were made during compliance testing:

NONE

12. TEST RESULT

Powerline RFI Class B	Eut	Radiated Emission Limits	Eut
SECTION 15.207		SECTION 15.209	X
SECTION 15.205, 15.209, 15.221, 15.223, x 15.225 OR 15.227		SECTION 15.205	
BATTERY POWER	X	SECTION 15.231 (b)	X
		SECTION 15.231 (e)	

12.1 Maximum Modulation Percentage (M%)

CALCULATION: NO Duty Cycle

Note: The EUT is a Universal Replacement Remote Control, so we use stricter limit value of standard during testing.
i.e. no Duty Cycle.

12.2 The Emissions Bandwidth

The bandwidth of the emissions were investigated per 15.231(c)

Center Frequency	Measured	Limits
300 MHz	235.5 kHz < (refer to plot)	300.00MHzX0.25%=750 kHz
310 MHz	233.3 kHz < (refer to plot)	310.00MHzX0.25%=775 kHz
390 MHz	237.7 kHz < (refer to plot)	390.00MHzX0.25%=975 kHz

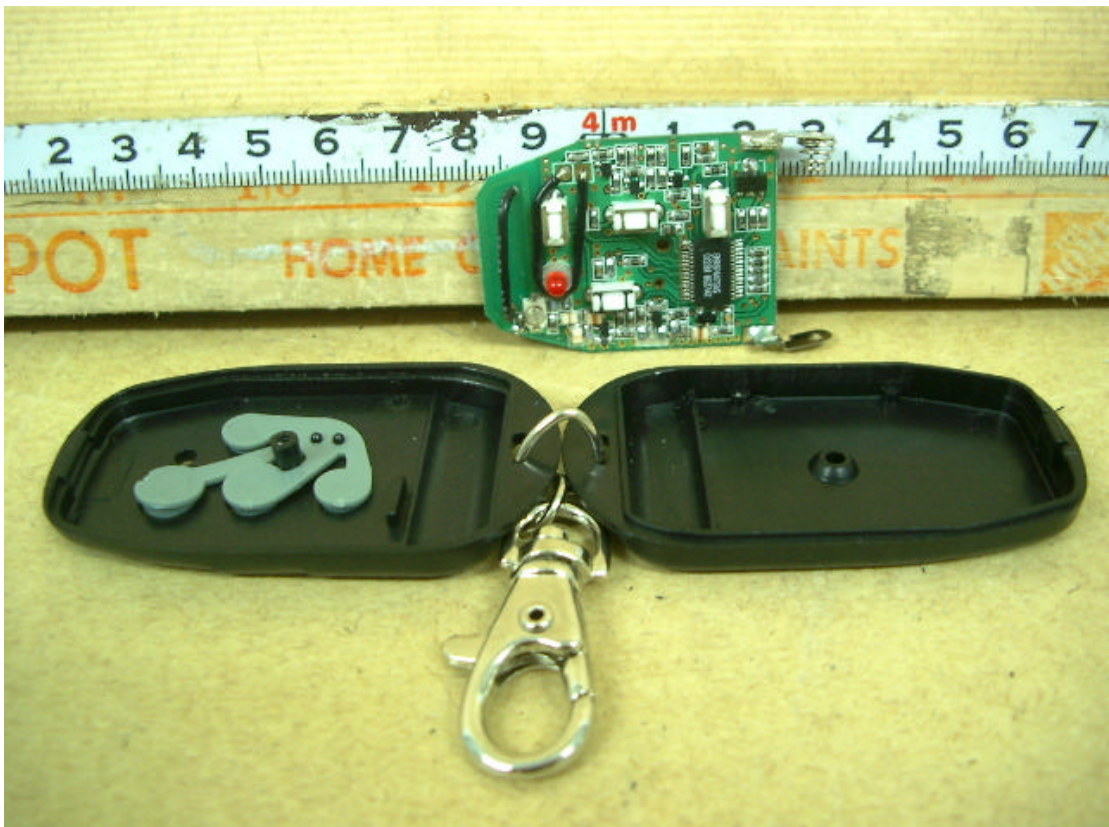
APPENDIX 1

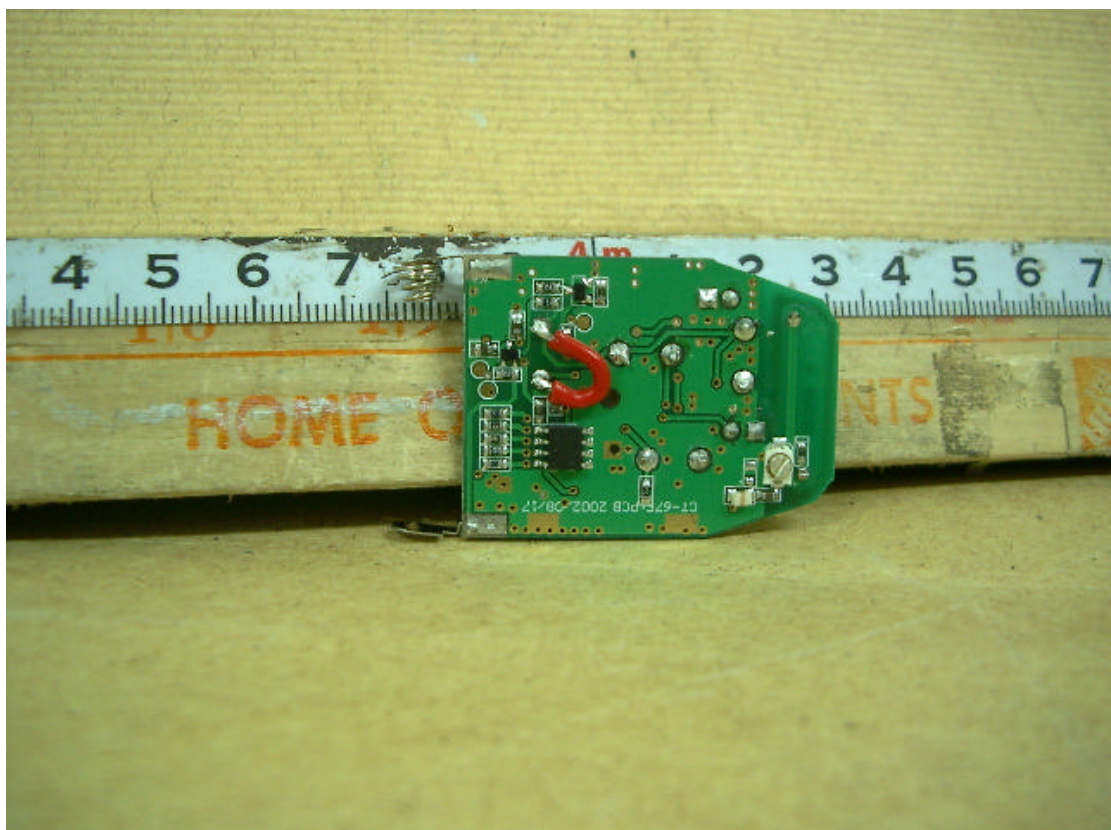
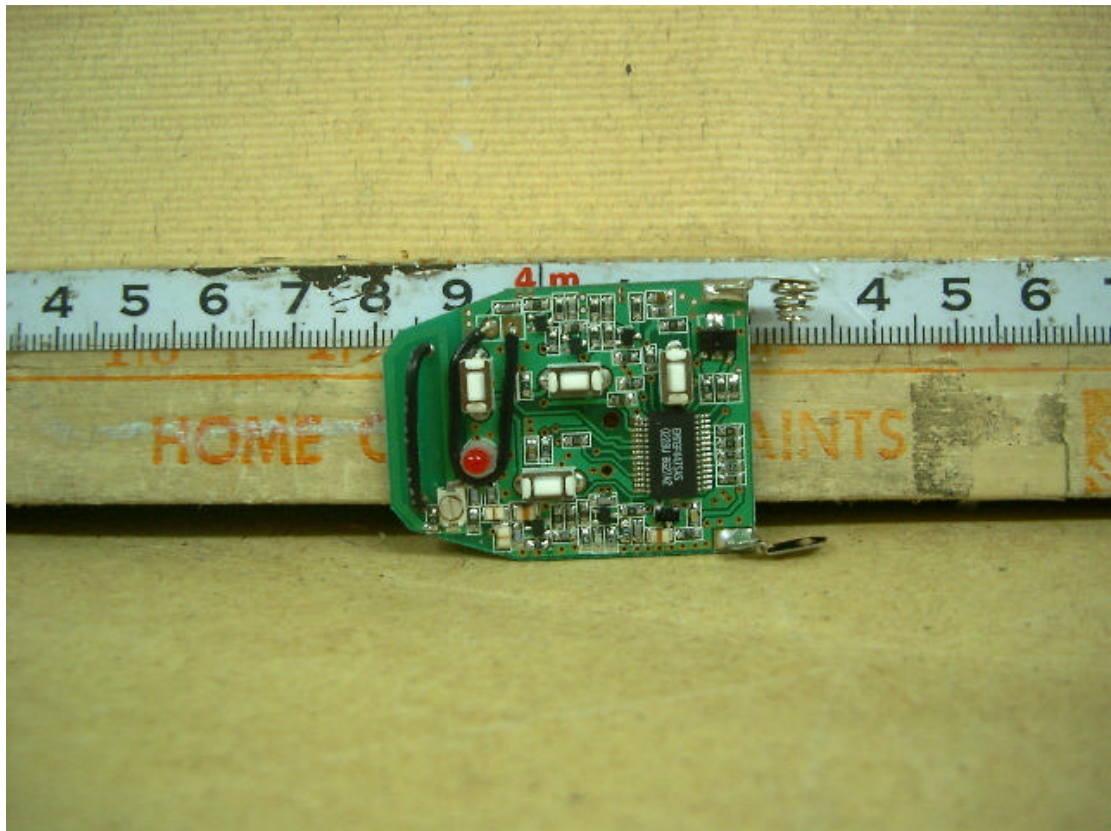
PHOTOGRAPHS OF EUT

External of EUT



Internal of EUT





APPENDIX 2

TEST DATA

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

No. 199 Chung Sheng Road
Hsin Tien City, Taipei, Taiwan, R.O.C.
PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 02E0457
Report #: 0457D1
Date & Time: 2002/09/18
Test Engr: DAVID HUNG

Company: ALTRUSTY ENTERPRISE CO., LTD.
EUT Description: AR99 (Universal Replacement Remote Control / 300 MHz)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

☒ D-Site

M% = ((t1+t2+t3+...)/T) * 100% = **100 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **0**

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #1:											
X	299.48	55.69	55.69	13.72	2.53	26.48	45.46	74.64	-29.18	3mV	270	1.00
	599.41	43.27	43.27	21.12	3.96	26.94	41.41	54.64	-13.23	3mV	270	1.20
	899.16	39.64	39.64	25.09	5.13	26.30	43.56	54.64	-11.08	3mV	270	1.00
Y	299.55	71.30	71.30	13.72	2.53	26.48	61.07	74.64	-13.57	3mV	0	1.30
	599.11	46.25	46.25	21.08	3.96	26.94	44.35	54.64	-10.29	3mV	0	1.00
	898.59	40.36	40.36	25.06	5.13	26.30	44.25	54.64	-10.39	3mV	0	1.40
Z	299.57	72.75	72.75	13.72	2.53	26.48	62.52	74.64	-12.12	3mV	90	1.00
	599.05	44.62	44.62	21.08	3.96	26.94	42.72	54.64	-11.92	3mV	90	1.50
	898.46	33.17	33.17	25.06	5.13	26.30	37.06	54.64	-17.58	3mV	90	1.00
X	299.72	73.82	73.82	13.78	2.54	26.48	63.66	74.64	-10.98	3mH	90	1.40
	599.40	45.26	45.26	21.12	3.96	26.94	43.40	54.64	-11.24	3mH	90	1.10
	898.99	39.06	39.06	25.06	5.13	26.30	42.95	54.64	-11.69	3mH	90	1.30
Y	299.30	69.69	69.69	13.72	2.53	26.48	59.46	74.64	-15.18	3mH	0	1.40
	599.09	45.69	45.69	21.08	3.96	26.94	43.79	54.64	-10.85	3mH	0	1.10
	898.66	38.43	38.43	25.06	5.13	26.30	42.32	54.64	-12.32	3mH	0	1.30
Z	299.46	68.91	68.91	13.72	2.53	26.48	58.68	74.64	-15.96	3mH	270	1.40
	599.03	41.86	41.86	21.08	3.96	26.94	39.96	54.64	-14.68	3mH	270	1.10
	898.50	32.77	32.77	25.06	5.13	26.30	36.66	54.64	-17.98	3mH	270	1.30

Peak: RBW= 120kHz
VBW= 300kHz
A(Average): Pk Reading - 0 dB

Total data #: 18

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP
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PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 02E0457
Report #: 0457D2
Date & Time: 2002/09/18
Test Engr: DAVID HUNG

Company: ALTRUSTY ENTERPRISE CO., LTD.
EUT Description: AR99 (Universal Replacement Remote Control / 310 MHz)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

☒ D-Site

M% = ((t1+t2+t3+...)/T) * 100% = **100 %**

Av Reading = Pk Reading + 20*log(M%)

20*log(M%) = **0**

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #2:											
X	309.18	56.94	56.94	14.03	2.58	26.50	47.05	75.27	-28.22	3mV	0	1.00
	618.36	44.85	44.85	21.12	4.02	26.93	43.06	55.27	-12.21	3mV	0	1.20
	927.567	40.48	40.48	24.48	5.16	26.39	43.73	55.27	-11.54	3mV	0	1.00
Y	309.10	69.25	69.25	14.03	2.58	26.50	59.36	75.27	-15.91	3mV	270	1.30
	618.12	44.42	44.42	21.12	4.02	26.93	42.63	55.27	-12.64	3mV	270	1.00
	927.11	42.41	42.41	24.50	5.16	26.38	45.69	55.27	-9.58	3mV	270	1.40
Z	308.97	72.50	72.50	14.03	2.58	26.50	62.61	75.27	-12.66	3mV	90	1.00
	617.95	44.90	44.90	21.12	4.02	26.94	43.10	55.27	-12.17	3mV	90	1.50
	927.04	38.53	38.53	24.50	5.16	26.38	41.81	55.27	-13.46	3mV	90	1.00
X	309.34	73.11	73.11	14.03	2.58	26.50	63.22	75.27	-12.05	3mH	0	1.40
	618.51	43.53	43.53	21.12	4.02	26.94	41.73	55.27	-13.54	3mH	0	1.10
	927.75	39.67	39.67	24.48	5.16	26.39	42.92	55.27	-12.35	3mH	0	1.30
Y	309.04	68.31	68.31	14.03	2.58	26.50	58.42	75.27	-16.85	3mH	90	1.40
	618.10	40.33	40.33	21.12	4.02	26.93	38.54	55.27	-16.73	3mH	90	1.10
	926.99	36.59	36.59	24.50	5.16	26.38	39.87	55.27	-15.40	3mH	90	1.30
Z	308.90	69.02	69.02	14.03	2.58	26.50	59.13	75.27	-16.14	3mH	270	1.40
	617.82	40.96	40.96	21.12	4.01	26.94	39.15	55.27	-16.12	3mH	270	1.10
	926.77	33.55	33.55	24.50	5.16	26.38	36.83	55.27	-18.44	3mH	270	1.30

Peak: RBW= 120kHz
VBW= 300kHz
A(Average): Pk Reading - 0 dB

Total data #: 18

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP
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Project #: 02E0457
Report #: 0457D3
Date & Time: 2002/09/18
Test Engr: DAVID HUNG

Company: ALTRUSTY ENTERPRISE CO., LTD.
EUT Description: AR99 (Universal Replacement Remote Control / 390 MHz)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)
Mode of Operation: NORMAL MODE

 D-Site

M% = ((t1+t2+t3+...)/T) * 100% = **100 %**

Av Reading = Pk Reading + 20*log(M%)
20*log(M%) = **0**

	Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
	Button #3:											
X	389.99	67.65	67.65	16.89	3.02	26.70	60.86	79.24	-18.38	3mV	0	1.00
	799.96	39.16	39.16	23.11	4.74	26.33	40.68	59.24	-18.56	3mV	0	1.20
Y	390.00	68.01	68.01	16.89	3.02	26.70	61.22	79.24	-18.02	3mV	270	1.30
	779.98	40.89	40.89	23.11	4.74	26.33	42.41	59.24	-16.83	3mV	270	1.40
Z	390.04	64.91	64.91	16.89	3.02	26.70	58.12	79.24	-21.12	3mV	90	1.00
	780.10	37.41	37.41	23.11	4.74	26.33	38.93	59.24	-20.31	3mV	90	1.50
X	389.87	66.29	66.29	16.89	3.02	26.70	59.50	79.24	-19.74	3mH	270	1.40
	779.91	35.21	35.21	23.11	4.74	26.33	36.73	59.24	-22.51	3mH	270	1.10
Y	390.03	66.54	66.54	16.89	3.02	26.70	59.75	79.24	-19.49	3mH	90	1.40
	780.08	40.79	40.79	23.11	4.74	26.33	42.31	59.24	-16.93	3mH	90	1.10
Z	390.04	68.42	68.42	16.89	3.02	26.70	61.63	79.24	-17.61	3mH	0	1.40
	780.15	37.74	37.74	23.11	4.74	26.33	39.26	59.24	-19.98	3mH	0	1.10

Peak: RBW= 120kHz
VBW= 300kHz
A(Average): Pk Reading - 0 dB

Total data #: 12

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
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Project #: 02E0457
Report #: 0457D4
Date & Time: 2002/09/20
Test Engr: DAVID HUNG

Company: ALTRUSTY ENTERPRISE CO., LTD
EUT Description: AR99 (Universal Replacement Remote Control / 300 MHz)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)/FCC 15.209
Mode of Operation: NORMAL MODE

☒ D-Site

☐ E-Site

6 Worst Data

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Level (dBuV/m)	Limit FCC_B	Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)	Mark (P/Q/A)
1200	50.30	50.30	24.59	3.46	37.21	41.14	54.0	-12.86	1mV	0	1.0	A
1502	48.91	48.91	25.46	3.77	36.79	41.35	54.0	-12.65	1mV	0	1.0	A
1800	48.42	48.42	26.63	4.63	36.37	43.31	54.6	-11.33	1mV	60	1.0	A
2102	48.07	27.61	27.61	5.03	36.08	24.17	54.6	-30.47	1mV	60	1.0	A
2402	48.06	48.06	28.22	4.84	36.02	52.15	54.6	-2.49	1mV	90	1.0	A
2702	44.68	44.68	29.19	5.52	36.04	43.35	54.0	-10.65	1mV	150	1.0	A
3001	46.85	46.85	30.30	5.78	36.10	46.83	54.6	-7.81	1mV	240	1.0	A
1200	54.00	54.00	24.59	3.46	37.21	44.84	54.0	-9.16	1mH	240	1.0	A
1489	50.22	50.22	25.41	3.80	36.81	42.62	54.0	-11.38	1mH	0	1.0	A
1787	48.88	48.88	26.57	4.62	36.39	43.68	54.6	-10.96	1mH	0	1.0	A
2091	47.39	47.39	27.59	5.05	36.08	43.95	54.6	-10.69	1mH	60	1.0	A
2393	48.51	48.51	28.20	4.81	36.02	45.50	54.6	-9.14	1mH	60	1.0	A
2694	47.26	47.26	29.16	5.50	36.04	45.88	54.0	-8.12	1mH	90	1.0	A
2993	47.66	47.66	30.28	5.75	36.10	47.59	54.6	-7.05	1mH	150	1.0	A

* No other emission were found within 20dB under the limits upto 4 GHz.

Total data #:14
V.2d

P(Peak): RBW=VBW=1MHz

A(Average): Pk Reading - 0 dB

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP
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Hsin Tien City, Taipei, Taiwan, R.O.C.
PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 02E0457
Report #: 0457D5
Date& Time: 2002/09/20
Test Engr: DAVID HUNG

Company: ALTRUSTY ENTERPRISE CO., LTD
EUT Description: AR99 (Universal Replacement Remote Control / 310 MHz)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)/FCC 15.209
Mode of Operation: NORMAL MODE

☒ D-Site

☐ E-Site

6 Worst Data

Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
1225	49.98	49.98	24.66	3.50	37.18	40.96	54.0	-13.04	1mV	0	1.0	A
1532	49.79	51.07	25.57	3.69	36.75	43.58	54.0	-10.42	1mV	0	1.0	A
1853	48.64	48.64	26.84	4.54	36.30	43.72	55.3	-11.55	1mV	60	1.0	A
2162	48.07	48.07	27.73	4.54	36.07	44.27	55.3	-11.00	1mV	60	1.0	A
2471	47.99	47.99	28.36	5.16	36.00	52.15	55.3	-3.12	1mV	90	1.0	A
2757	48.05	48.05	29.39	5.65	36.05	47.04	54.0	-6.96	1mV	150	1.0	A
3063	50.00	50.00	30.43	5.83	36.04	50.22	55.3	-5.05	1mV	240	1.0	A
1226	51.35	51.35	24.66	3.50	37.18	42.33	54.0	-11.67	1mH	240	1.0	A
1534	49.42	49.42	25.58	3.68	36.75	41.93	54.0	-12.07	1mH	0	1.0	A
1853	49.89	49.89	26.84	4.54	36.30	44.97	55.3	-10.30	1mH	0	1.0	A
2163	47.17	47.17	27.74	4.52	36.07	43.36	55.3	-11.91	1mH	60	1.0	A
2461	47.85	47.85	28.34	5.12	36.01	45.30	55.3	-9.97	1mH	60	1.0	A
2757	46.74	46.74	29.39	5.65	36.05	45.73	54.0	-8.27	1mH	90	1.0	A
3063	47.55	47.55	30.43	5.85	36.04	47.79	55.3	-7.48	1mH	150	1.0	A

Total data #:14
V.2d

P(Peak): RBW=VBW=1MHz

A(Average): Pk Reading - 0 dB

C&C Laboratory CO., LTD.

FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP
No. 199 Chung Sheng Road
Hsin Tien City, Taipei, Taiwan, R.O.C.
PHONE: 02-2217-0894 FAX: 02-2217-1254

Project #: 02E0457
Report #: 0457D6
Date& Time: 2002/09/19
Test Engr: DAVID HUNG

Company: ALTRUSTY ENTERPRISE CO., LTD
EUT Description: AR99 (Universal Replacement Remote Control / 390 MHz)
Test Configuration : EUT ONLY
Type of Test: FCC 15.231(b)/FCC 15.209
Mode of Operation: NORMAL MODE

☒ D-Site

☐ E-Site

6 Worst Data

Freq.	Pk Rdg	Av Rdg	AF	Closs	Pre-amp	Level	Limit	Margin	Pol	Az	Height	Mark
(MHz)	(dBuV)	(dBuV)	(dB)	(dB)	(dB)	(dBuV/m)	FCC_B	(dB)	(H/V)	(Deg)	(Meter)	(P/Q/A)
1179	51.48	51.48	24.52	3.42	37.24	42.18	54.0	-11.82	1mV	0	1.0	A
1578	48.44	48.44	25.76	3.55	36.69	41.06	54.0	-12.94	1mV	0	1.0	A
1965	47.61	47.61	27.27	4.89	36.15	43.62	59.2	-15.62	1mV	60	1.0	A
2353	47.03	47.03	28.12	4.92	36.03	44.04	54.0	-9.96	1mV	60	1.0	A
2742	47.11	47.11	39.34	5.62	36.05	52.15	54.0	-1.85	1mV	90	1.0	A
3129	48.00	48.00	30.56	5.88	35.97	48.47	59.2	-10.73	1mV	150	1.0	A
3510	47.45	47.45	31.34	6.17	35.60	49.36	59.2	-9.88	1mV	240	1.0	A
3931	49.63	49.63	32.37	6.71	35.18	53.53	54.0	-0.47	1mV	240	1.0	A
1145	51.22	51.22	24.43	3.37	37.29	41.73	54.0	-12.27	1mH	240	1.0	A
1536	49.99	49.99	25.59	3.67	36.74	42.51	54.0	-11.49	1mH	0	1.0	A
1923	49.73	49.73	27.11	4.63	36.20	45.27	59.2	-13.97	1mH	0	1.0	A
2314	47.20	47.20	28.04	5.08	36.04	44.28	54.0	-9.72	1mH	60	1.0	A
2706	47.45	47.45	29.20	5.53	36.04	46.14	54.0	-7.86	1mH	60	1.0	A
3099	48.03	48.03	30.50	5.85	36.00	48.38	59.2	-10.82	1mH	90	1.0	A
3488	48.37	31.29	31.36	6.15	35.62	33.18	59.2	-26.06	1mH	150	1.0	A
3883	46.09	46.09	32.24	6.65	35.23	49.75	54.0	-4.25	1mH	150	1.0	A

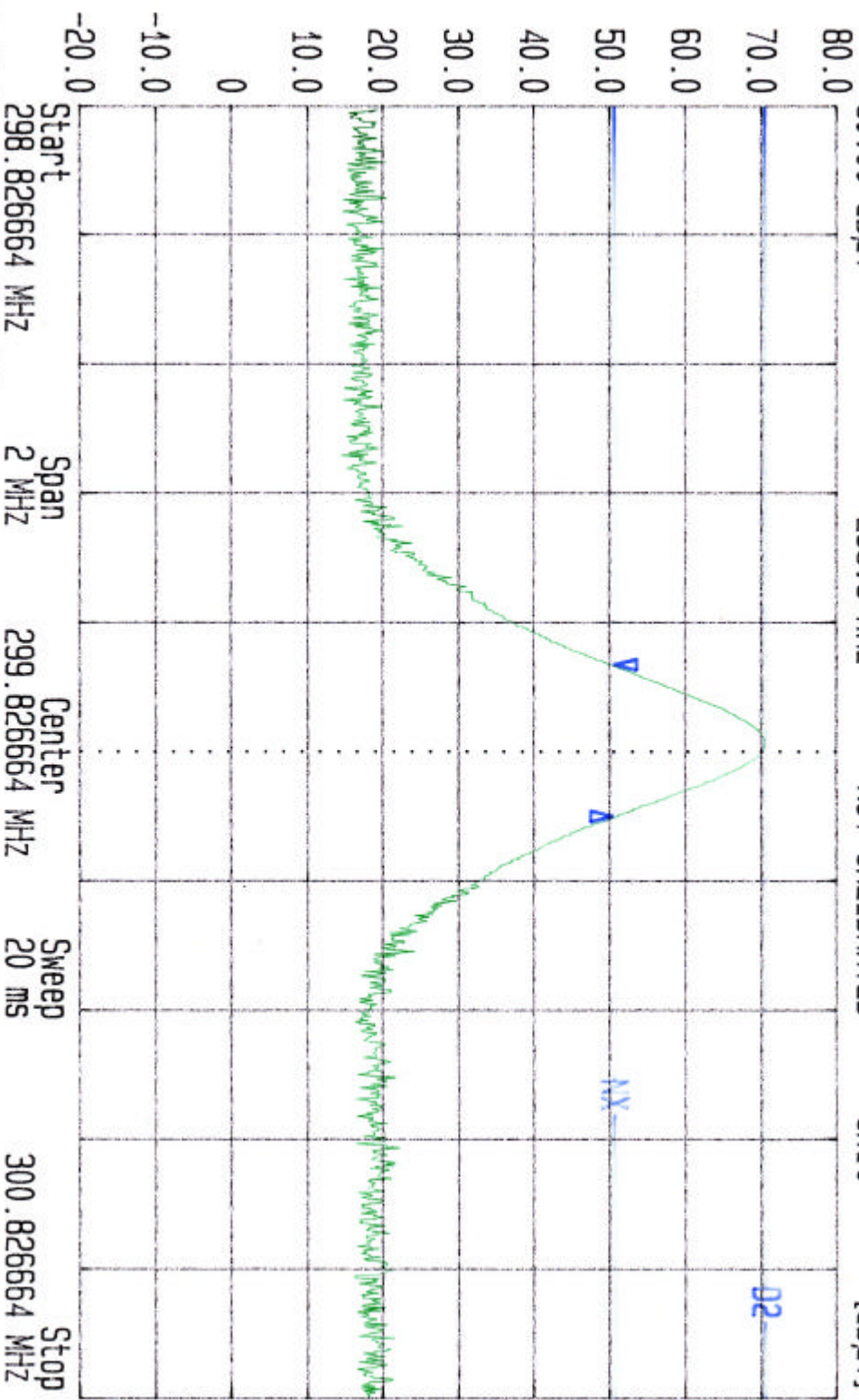
Total data #:16
V.2d

P(Peak): RBW=VBW=1MHz

A(Average): Pk Reading - 0 dB



Date 18.Sep.'02 Time 17:05:23
Ref.Lvl 80.00 dBμV Delta 0.07 dB
Res.Bw 120 kHz [imp] Vid.Bw 300 kHz
TG.Lvl 200.000 kHz off
CF.Stp NDT CALIBRATED
RF.Att Unit [dBμV]

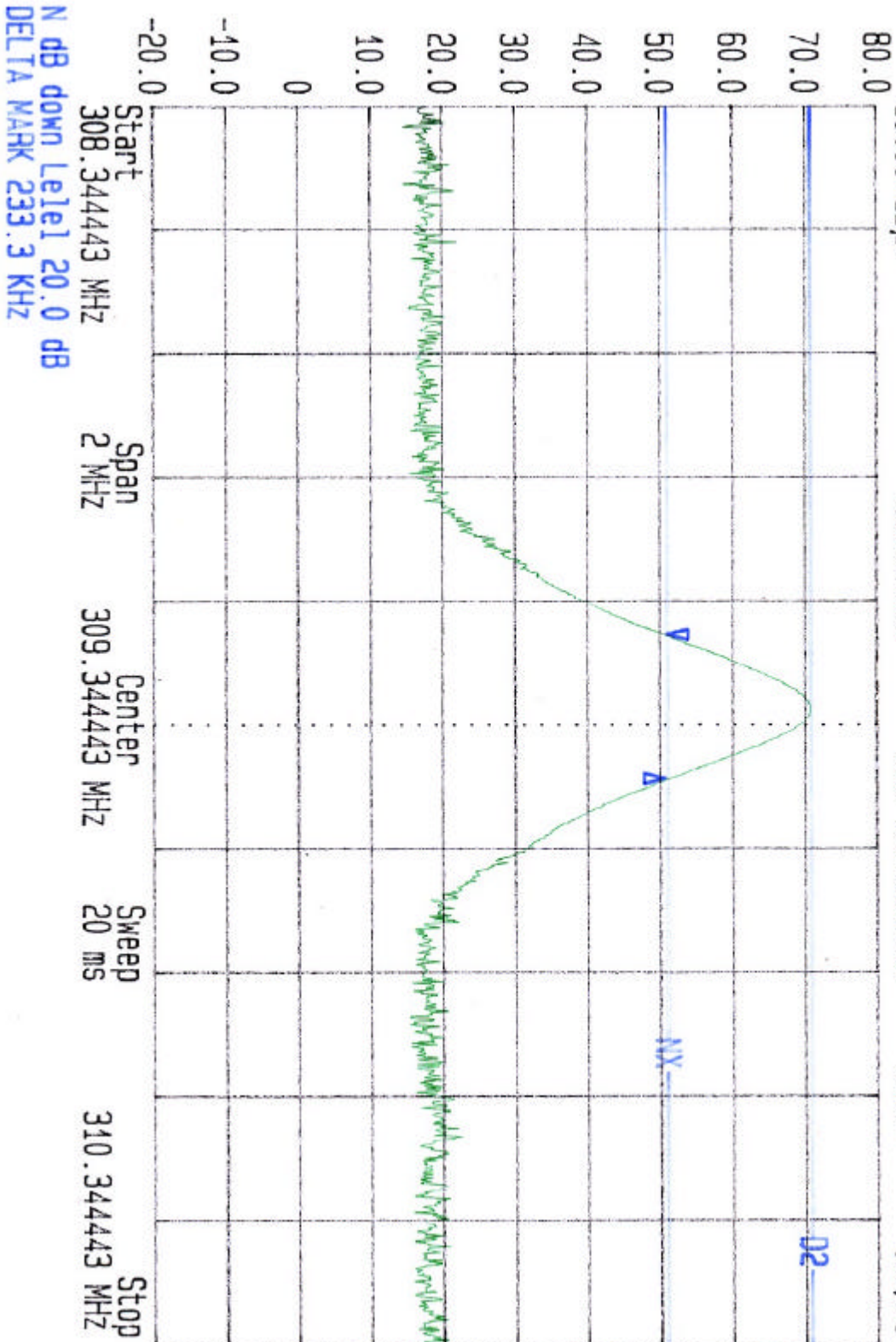


N dB down Level 20.0 dB
DELTA MARK 235.5 kHz



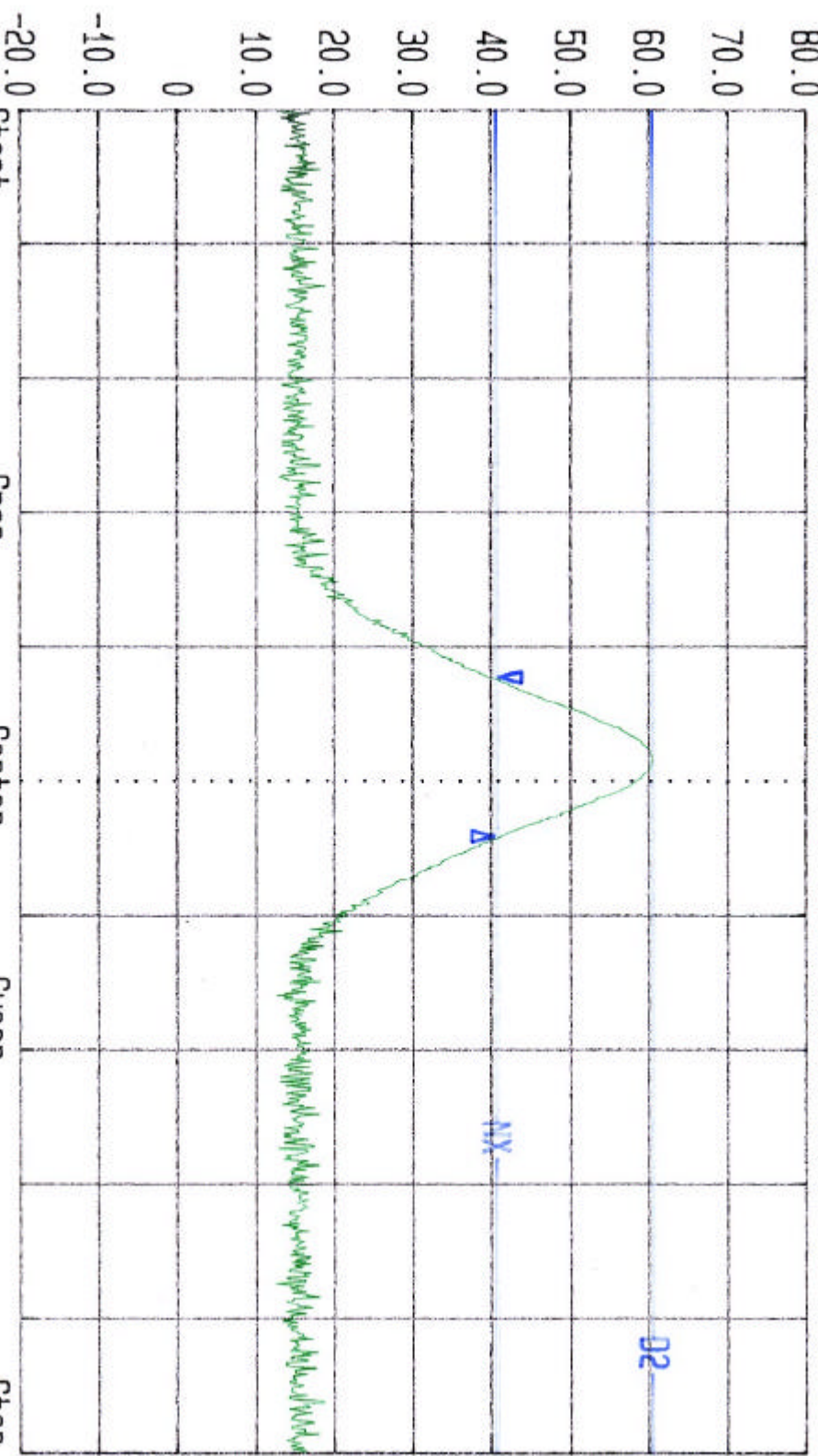
Date 18.Sep.'02 Time 16:58:46
Ref.Lvl 80.00 dBμV
Delta 233.3 kHz

Res.Bw 120 kHz [imp]
TG.Lvl 0ff
CF.Stp NDT CALIBRATED
Vid.Bw 300 kHz
RF.Att 10 dB
Unit [dBμV]





Date 18.Sep.'02 Time 16:51:28
Ref.Lvl 80.00 dB μ V Delta -0.28 dB
Res.Bw 120 kHz [imp] Vid.Bw 300 kHz
TG.Lvl CF.Stp 200.000 kHz off
NDT CALIBRATED Unit [dB μ V]



N dB down level 20.0 dB
DELTA MARK 237.7 KHz