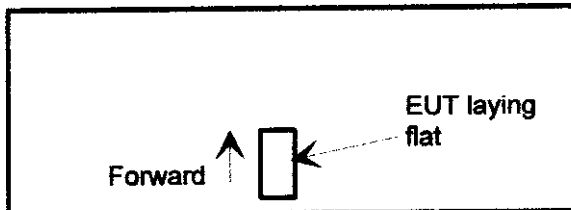
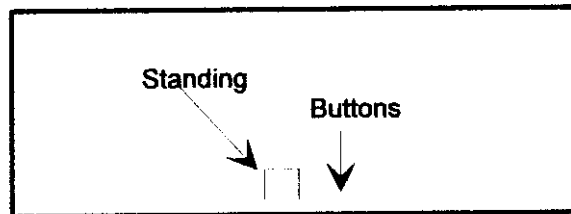




Antenna
30-1000 MHz

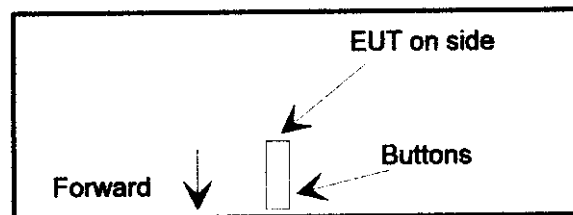
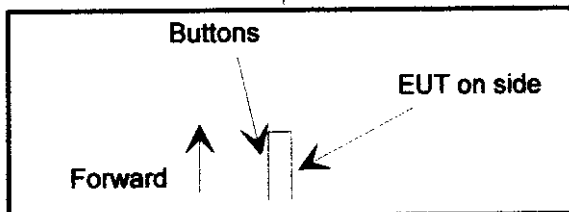


Antenna
30-1000 MHz

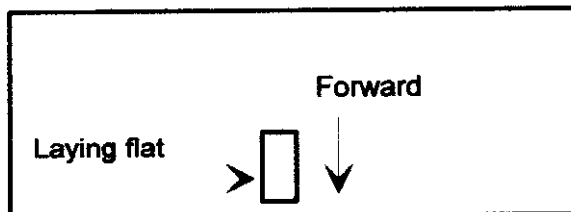


1-5 GHz

Antenna
30-1000 MHz



Antenna
1-5 GHz



Antenna
1-5 GHz

RADIATED EMISSIONS

Location #2 FCC Part 15.231, 15.209 & 15.205

FCC ID: F2NURC440T

DATE: FEB. 27, 1998

REPORT # 86055-1

Client:

Next Level Systems Inc.

Date:

20-Feb-98

File # 86055-1

Engr.: Stefan J. Munford

Rep.: Kerry Galloway

System: Universal Remote

Meas

Type

Transmit signal

Ave

Peak

HP/

R&S

Peak

Run

1, sample

1, laying

flat.

R&S

Peak

Run

4, sample

2, laying

flat.

R&S

Peak

Run

4, sample

2, laying

flat.

R&S

Peak

Run

4, sample

2, laying

flat.

R&S

Peak

Run

4, sample

2, laying

flat.

R&S

Peak

Run

4, sample

2, laying

flat.

Freq (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Duty % Correction (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	FCC Limit (dBuV/m)	Delta (dB)	Azimuth (degree)	Height (m)	Hor/ Vert	HP/ R&S	Peak QF	Comments
433.90	85.8	25.3	6.6	18.0	-14.9	-15.7	70.1	80.8	-10.7	64	1.00	H	R&S	PEAK	Run 1, sample 1, laying flat.
433.90	75.7	25.3	6.6	18.0	-14.9	-15.7	60.0	80.8	-20.8	0	2.70	V	R&S	PEAK	Run 1, sample 1, laying flat.
433.88	85.5	25.3	6.6	18.0	-14.9	-15.7	69.8	80.8	-11.0	69	1.00	H	R&S	PEAK	Run 4, sample 2, laying flat.
433.88	76.9	25.3	6.6	18.0	-14.9	-15.7	61.2	80.8	-19.6	189	2.00	V	R&S	PEAK	Run 4, sample 2, laying flat.

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Data not valid for report unless signed by DNB personnel

1100 E. Chalk Creek Rd.
Coalville, UT, 84017

Phone (801) 336-4433

Fax (801) 336-4436

Client: Next Level Systems Inc.
Date: 26-Feb-98

File # 86055-1
Eng: Stefan J. Munford

Rep: Kerry Galloway
System: Universal Remote

FCC ID: F2NURC440T
DATE: FEB. 27, 1998
REPORT # 86055-1

Freq (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Duty % (dB)	Total Factors (dBuV/m)	3 Meter			Azimuth (degree)	Height (m)	Hor/ Vert	HP/ R&S	Meas Type	Comments
							FCC Limit (dBuV/m)	Delta (dB)	Limit (dBuV/m)						
1301.680	58.20	24.6	3.1	24.4	-14.9	-12.0	46.2	-7.8	54.0	87	1.10	V	HP	PEAK	Run 2, sample 1, remote standing
2603.320	60.40	27.6	4.0	29.2	-14.9	-9.3	51.1	-9.7	60.8	202	1.50	V	HP	PEAK	Run 2, sample 1, remote standing
1735.520	61.75	26.5	3.4	26.8	-14.9	-11.2	50.6	-10.2	60.8	181	2.10	V	HP	PEAK	Run 1, sample 1, remote flat
2169.420	59.75	26.9	3.6	28.7	-14.9	-9.5	50.2	-10.6	60.8	177	1.90	H	HP	PEAK	Run 2, sample 1, remote standing
2169.420	59.65	26.9	3.6	28.7	-14.9	-9.5	50.1	-10.7	60.8	91	1.60	V	HP	PEAK	Run 2, sample 1, remote standing
1301.680	54.40	24.6	3.1	24.4	-14.9	-12.0	42.4	-11.6	54.0	356	1.00	H	HP	PEAK	Run 2, sample 1, remote standing
3037.210	56.75	27.8	4.3	30.4	-14.9	-8.0	48.7	-12.1	60.8	174	1.40	V	HP	PEAK	Run 3, sample 1, remote on its side
3905.000	48.10	28.4	5.1	31.2	-14.9	-7.1	41.0	-13.0	54.0	359	3.30	H	HP	PEAK	Run 2, sample 1, remote standing
2603.320	57.00	27.6	4.0	29.2	-14.9	-9.3	47.7	-13.1	60.8	12	2.05	H	HP	PEAK	Run 2, sample 1, remote standing
4338.900	46.00	29.0	5.7	31.9	-14.9	-6.3	39.7	-14.3	54.0	268	3.20	V	HP	PEAK	Run 1, sample 1, remote flat
1735.520	56.75	26.5	3.4	26.8	-14.9	-11.2	45.6	-15.2	60.8	360	3.30	H	HP	PEAK	Run 1, sample 1, remote flat
4338.900	43.80	29.0	5.7	31.9	-14.9	-6.3	37.5	-16.5	54.0	327	3.20	H	HP	PEAK	Run 1, sample 1, remote flat
3471.110	50.70	28.2	4.6	30.1	-14.9	-8.4	42.3	-18.5	60.8	187	3.50	H	HP	PEAK	Run 1, sample 1, remote flat
3905.000	42.45	28.4	5.1	31.2	-14.9	-7.1	35.3	-18.7	54.0	350	3.30	V	HP	PEAK	Run 2, sample 1, remote standing
3037.210	48.40	27.8	4.3	30.4	-14.9	-8.0	40.4	-20.4	60.8	313	2.80	H	HP	PEAK	Run 3, sample 1, remote on its side
3471.110	42.35	28.2	4.6	30.1	-14.9	-8.4	34.0	-26.8	60.8	351	1.40	V	HP	PEAK	Run 1, sample 1, remote flat
1301.680	59.15	24.6	3.1	24.4	-14.9	-12.0	47.2	-6.8	54.0	84	1.10	V	HP	PEAK	Run 4, sample 2, remote standing
2603.320	61.95	27.6	4.0	29.2	-14.9	-9.3	52.6	-8.2	60.8	22	1.10	H	HP	PEAK	Run 4, sample 2, remote standing
1301.680	57.35	24.6	3.1	24.4	-14.9	-12.0	45.4	-8.6	54.0	0	1.00	H	HP	PEAK	Run 4, sample 2, remote standing
2169.420	61.60	26.9	3.6	28.7	-14.9	-9.5	52.1	-8.7	60.8	163	1.40	H	HP	PEAK	Run 4, sample 2, remote standing
2169.420	60.90	26.9	3.6	28.7	-14.9	-9.5	51.4	-9.4	60.8	93	1.50	V	HP	PEAK	Run 4, sample 2, remote standing
3905.000	50.35	28.4	5.1	31.2	-14.9	-7.1	43.2	-10.8	54.0	1	3.30	H	HP	PEAK	Run 4, sample 2, remote standing
2603.320	59.15	27.6	4.0	29.2	-14.9	-9.3	49.8	-11.0	60.8	112	2.10	V	HP	PEAK	Run 4, sample 2, remote standing
4338.900	47.05	29.0	5.7	31.9	-14.9	-6.3	41.3	-12.7	54.0	254	3.20	V	HP	PEAK	Run 4, sample 2, remote flat
4338.900	47.05	29.0	5.7	31.9	-14.9	-6.3	40.7	-13.3	54.0	50	3.50	H	HP	PEAK	Run 4, sample 2, remote flat
1735.520	58.30	26.5	3.4	26.8	-14.9	-11.2	47.1	-13.7	60.8	180	2.10	V	HP	PEAK	Run 4, sample 2, remote flat
3037.210	54.70	27.8	4.3	30.4	-14.9	-8.0	46.7	-14.1	60.8	264	3.20	H	HP	PEAK	Run 4, sample 2, remote flat
3905.000	45.12	28.4	5.1	31.2	-14.9	-7.1	38.0	-16.0	54.0	21	3.20	V	HP	PEAK	Run 4, sample 2, remote on its side
1735.520	55.70	26.5	3.4	26.8	-14.9	-11.2	44.5	-16.3	60.8	26	3.30	H	HP	PEAK	Run 4, sample 2, remote standing
3037.210	52.20	27.8	4.3	30.4	-14.9	-8.0	44.2	-16.6	60.8	7	3.50	V	HP	PEAK	Run 4, sample 2, remote flat
3471.110	51.00	28.2	4.6	30.1	-14.9	-8.4	42.6	-18.2	60.8	175	3.40	H	HP	PEAK	Run 4, sample 2, remote flat
3471.110	44.20	28.2	4.6	30.1	-14.9	-8.4	35.8	-25.0	60.8	332	1.00	V	HP	PEAK	Run 4, sample 2, remote flat
1301.680	55.30	24.6	3.1	24.4	-14.9	-12.0	43.3	-10.7	54.0	263	3.20	H	HP	PEAK	Run 3, sample 1, remote on its side
1301.680	54.10	24.6	3.1	24.4	-14.9	-12.0	42.1	-11.9	54.0	193	3.30	V	HP	PEAK	Run 3, sample 1, remote on its side
1301.680	54.00	24.6	3.1	24.4	-14.9	-12.0	42.0	-12.0	54.0	310	3.20	V	HP	PEAK	Run 1, sample 1, remote flat
1301.680	53.70	24.6	3.1	24.4	-14.9	-12.0	41.7	-12.3	54.0	290	3.00	H	HP	PEAK	Run 1, sample 1, remote flat
1735.520	59.30	26.5	3.4	26.8	-14.9	-11.2	48.1	-12.7	60.8	143	1.60	V	HP	PEAK	Run 2, sample 1, remote standing
1735.520	58.95	26.5	3.4	26.8	-14.9	-11.2	47.8	-13.0	60.8	328	1.60	H	HP	PEAK	Run 3, sample 1, remote on its side
1735.520	58.45	26.5	3.4	26.8	-14.9	-11.2	47.3	-13.5	60.8	183	2.30	V	HP	PEAK	Run 3, sample 1, remote on its side

RADIATED EMISSIONS
Location #1 FCC Part 15 Class B

FCC ID: F2NURC440T
DATE: FEB. 27, 1998

Client: Next Level Systems Inc.
Date: 26-Feb-98

File # 86055-1
Engr.: Stefan J. Munford

Rep.: Kerry Galloway
System: Universal Remote

														Meas		
														Type	Ave	Comments
														3 Meter		
Freq (MHz)	Meas'd (dBuV)	Amp Factors (dB)	Cable Factors (dB)	Antenna Factors (dB)	Duty % Correction (dB)	Total Factors (dBuV/m)	Total (dBuV/m)	FCC Limit (dBuV/m)	Delta (dB)	Azimuth (degree)	Height (m)	Hor/ Vert	HP/ R&S	Peak		
1735.520	57.55	26.5	3.4	26.8	-14.9	-11.2	46.4	60.8	-14.4	219	3.30	H	HP	PEAK	Run 2, sample 1, remote standing	
2169.420	58.05	26.9	3.6	28.7	-14.9	-9.5	48.5	60.8	-12.3	269	1.50	H	HP	PEAK	Run 1, sample 1, remote flat	
2169.420	57.60	26.9	3.6	28.7	-14.9	-9.5	48.1	60.8	-12.7	232	3.50	H	HP	PEAK	Run 3, sample 1, remote on its side	
2169.420	57.35	26.9	3.6	28.7	-14.9	-9.5	47.8	60.8	-13.0	2	1.40	V	HP	PEAK	Run 3, sample 1, remote on its side	
2169.420	54.85	26.9	3.6	28.7	-14.9	-9.5	45.3	60.8	-15.5	326	3.00	V	HP	PEAK	Run 1, sample 1, remote flat	
2603.320	59.95	27.6	4.0	29.2	-14.9	-9.3	50.6	60.8	-10.2	300	1.20	H	HP	PEAK	Run 3, sample 1, remote on its side	
2603.320	58.05	27.6	4.0	29.2	-14.9	-9.3	48.7	60.8	-12.1	178	1.00	V	HP	PEAK	Run 1, sample 1, remote flat	
2603.320	57.25	27.6	4.0	29.2	-14.9	-9.3	47.9	60.8	-12.9	54	3.30	H	HP	PEAK	Run 1, sample 1, remote flat	
2603.320	56.35	27.6	4.0	29.2	-14.9	-9.3	47.0	60.8	-13.8	24	1.00	V	HP	PEAK	Run 3, sample 1, remote on its side	
3037.210	56.05	27.8	4.3	30.4	-14.9	-8.0	48.0	60.8	-12.8	180	3.60	H	HP	PEAK	Run 1, sample 1, remote flat	
3037.210	54.65	27.8	4.3	30.4	-14.9	-8.0	46.6	60.8	-14.2	83	3.50	V	HP	PEAK	Run 1, sample 1, remote flat	
3037.210	53.40	27.8	4.3	30.4	-14.9	-8.0	45.4	60.8	-15.4	12	1.90	H	HP	PEAK	Run 2, sample 1, remote standing	
3037.210	52.35	27.8	4.3	30.4	-14.9	-8.0	44.3	60.8	-16.5	332	1.10	V	HP	PEAK	Run 2, sample 1, remote standing	
3471.110	46.90	28.2	4.6	30.1	-14.9	-8.4	38.5	60.8	-22.3	341	2.10	H	HP	PEAK	Run 2, sample 1, remote standing	
3471.110	46.20	28.2	4.6	30.1	-14.9	-8.4	37.8	60.8	-23.0	282	3.20	V	HP	PEAK	Run 2, sample 1, remote standing	
3471.110	43.90	28.2	4.6	30.1	-14.9	-8.4	35.5	60.8	-25.3	343	2.10	V	HP	PEAK	Run 3, sample 1, remote on its side	
3471.110	42.15	28.2	4.6	30.1	-14.9	-8.4	33.8	60.8	-27.0	20	3.50	H	HP	PEAK	Run 3, sample 1, remote on its side	
3905.000	42.20	28.4	5.1	31.2	-14.9	-7.1	35.1	54.0	-18.9	360	1.10	V	HP	PEAK	Run 3, sample 1, remote on its side	
3905.000	41.00	28.4	5.1	31.2	-14.9	-7.1	33.9	54.0	-20.1	338	1.05	H	HP	PEAK	Run 3, sample 1, remote on its side	
3905.000	40.80	28.4	5.1	31.2	-14.9	-7.1	33.7	54.0	-20.3	32	2.00	V	HP	PEAK	Run 1, sample 1, remote flat	
3905.000	39.40	28.4	5.1	31.2	-14.9	-7.1	32.3	54.0	-21.7	352	2.10	H	HP	PEAK	Run 1, sample 1, remote flat	
4338.900	44.40	29.0	5.7	31.9	-14.9	-6.3	38.1	54.0	-15.9	6	3.30	V	HP	PEAK	Run 2, sample 1, remote standing	
4338.900	43.35	29.0	5.7	31.9	-14.9	-6.3	37.0	54.0	-17.0	96	3.30	H	HP	PEAK	Run 2, sample 1, remote standing	
4338.900	42.45	29.0	5.7	31.9	-14.9	-6.3	36.1	54.0	-17.9	3	3.30	H	HP	PEAK	Run 3, sample 1, remote on its side	
4338.900	40.05	29.0	5.7	31.9	-14.9	-6.3	33.7	54.0	-20.3	17	1.60	V	HP	PEAK	Run 3, sample 1, remote on its side	

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3.4 Spurious Radiated Emissions - 15.231(b), 15.205(a-c), 15.209(a-d)

The EUT was compliant with CFR 47, 15.231(b), 15.205(a), and 15.209(a) radiated emissions requirements.

Two samples of the EUT were tested and found to be compliant to FCC requirements.

The transmit frequency is 433.9 MHz. Only Harmonics of the fundamental transmit frequency were detected.

Radiated Emissions

per FCC part 15, Subpart C at 3 meters

Configuration A 433.9 MHz			Next Level Systems Inc.					UNIVERSAL REMOTE m/n URC-440		
Freq. (MHz)	Meas'd (dBuV)	Amp (dB)	Cable (dB)	Antenna (dB)	Duty % (dB)	Total (dB)	Corrected (dBuV/m)	Limit (dBuV/m)	Delta (dB)	
1301.68	58.2	24.6	3.1	24.4	-14.9	-12.0	46.2	54.0	-7.8	
2603.32	60.4	27.6	4.0	29.2	-14.9	-9.3	51.1	60.8	-9.7	
1735.52	61.8	26.5	3.4	26.8	-14.9	-11.2	50.6	60.8	-10.2	
2169.42	59.8	26.9	3.6	28.7	-14.9	-9.5	50.2	60.8	-10.6	
2169.42	59.7	26.9	3.6	28.7	-14.9	-9.5	50.1	60.8	-10.7	
1301.68	54.4	24.6	3.1	24.4	-14.9	-12.0	42.4	54.0	-11.6	

Configuration B 433.9 MHz			Next Level Systems Inc.					URC-440 IR/UHF REMOTE CONTROL		
Freq. (MHz)	Meas'd (dBuV)	Amp (dB)	Cable (dB)	Antenna (dB)	Duty % (dB)	Total (dB)	Corrected (dBuV/m)	Limit (dBuV/m)	Delta (dB)	
1301.68	59.2	24.6	3.1	24.4	-14.9	-12.0	47.2	54.0	-6.8	
2603.32	62.0	27.6	4.0	29.2	-14.9	-9.3	52.6	60.8	-8.2	
1301.68	57.4	24.6	3.1	24.4	-14.9	-12.0	45.4	54.0	-8.6	
2169.42	61.6	26.9	3.6	28.7	-14.9	-9.5	52.1	60.8	-8.7	
2169.42	60.9	26.9	3.6	28.7	-14.9	-9.5	51.4	60.8	-9.4	
3905.00	50.4	28.4	5.1	31.2	-14.9	-7.1	43.2	54.0	-10.8	

For test results, refer to pages 31-32 and Appendix A.

Photo # 8. EUT Standing - Front View
 Photo # 9. EUT Standing - Rear View
 Photo # 10 EUT Side View
 Photo # 11 EUT Side View
 Photo # 12 EUT Flat - Front View
 Photo # 13 EUT Flat - Rear View

The EUT was tested in three orientations to determine worst case Emissions; with the EUT standing vertically on the end opposite the TX, horizontally laying flat with the buttons up, and on its side with the buttons in a vertical plane. Worst case emissions were reported.

3.4.1 Photograph of Radiated Test Setup - per 2.1033(b)(7) *UNIVERSAL REMOTE m/n URC-440*

