

This is the retest report of radiated emission that we put EUT in center on the table
(Please refer attached photos)

● 30MHz to 1GHz Frequency Range Measurement Results

Date of Test : May 17, 2001 Temperature : 25°C

EUT & M/N : Remote Relay, M/N TX11 Humidity : 55%

Fundamental Freq. : 434MHz

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Limits dBμV/m	Margin dB

Stand Mode						
434.214	17.28	3.90	39.62	60.80	80.80	20.00
868.173	24.37	5.96	-2.47	27.86	60.80	32.94
Side Mode						
433.929	17.37	3.93	43.45	64.75	80.80	16.05
867.938	24.37	5.96	1.08	31.41	60.80	29.39
Lying Mode						
434.010	17.37	3.93	53.22	74.52	80.80	6.28
867.931	24.37	5.96	0.95	31.28	60.80	29.52

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Limits dBμV/m	Margin dB

Stand Mode						
434.107	17.20	3.93	47.68	68.81	80.80	11.99
868.119	24.37	5.96	-1.44	28.89	60.80	31.91
Side Mode						
434.062	17.20	3.93	41.43	62.56	80.80	18.24
868.079	24.37	5.96	1.69	32.02	60.80	28.78
Lying Mode						
434.089	17.20	3.93	38.14	59.27	80.80	21.53
868.113	24.37	5.96	-3.03	27.30	60.80	33.50

Remark : 1. All readings are Quasi-peak values.
2. Emission = Ant. Factor + Cable Loss + Meter Reading

● 1GHz ~ 5GHz Frequency Range Measurement Results

Date of Test : May 17, 2001 Temperature : 25°C

EUT & M/N : Remote Relay, M/N TX11 Humidity : 55%

Fundamental Freq. : 434MHz

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Pre-Amp Factor dB	Correction Factor dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Quasi Peak Limits dBμV/m	Margin dB
Harmonic/ Spurious								
Stand Mode								
1300.890	25.43	4.56	32.36	-2.27	43.94	39.30	53.90	14.60
□								
1734.453	26.35	5.43	32.16	-2.27	42.02	39.37	53.90	14.53
2168.565	27.10	6.33	32.11	-2.27	29.22	28.27	53.90	25.63
2602.565	27.77	6.97	32.23	-2.27	26.13	26.37	53.90	27.53
Side Mode								
1298.416	25.43	4.56	32.36	-2.27	41.91	37.27	53.90	16.63
1732.564	26.34	5.42	32.16	-2.27	47.97	45.32	53.90	8.60
2172.595	27.11	6.33	32.11	-2.27	28.16	27.22	53.90	26.68
2602.542	27.77	6.97	32.23	-2.27	29.14	29.38	53.90	24.52
Lying Mode								
1302.215	25.44	4.56	32.36	-2.27	46.04	41.41	53.90	12.49
□								
1732.565	26.34	5.42	32.16	-2.27	39.30	36.63	53.90	17.27
2168.964	27.10	6.33	32.11	-2.27	32.30	31.35	53.90	22.55
2598.564	27.77	6.97	32.23	-2.27	27.34	27.58	53.90	26.32

- Remark :
1. Emission Level = Ant. Factor + Cable Loss + Meter Reading (Peak Value) + Correction Factor – Pre-Amp. Factor
 2. Correction Factor = $20\log \text{Duty Cycle} = 20\log \frac{56.9\text{ms}}{73.9\text{ms}} = -2.27$
 3. Measurement was up to 10th harmonic (~5GHz), but the emission level are too low against the official limit and not report.

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Fundamental Freq. : 434MHz

Emission Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Pre-Amp Factor dB	Correction Factor dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Quasi Peak Limits dBμV/m	Margin dB

Harmonic/ Spurious								
Stand Mode								
1301.682	25.43	4.56	32.36	-2.27	49.04	44.40	53.90	9.50
1733.566	26.34	5.42	32.16	-2.27	43.96	41.29	53.90	12.61
2166.549	27.09	6.32	32.11	-2.27	33.35	32.38	53.90	21.52
2599.026	27.77	6.97	32.23	-2.27	28.12	28.36	53.90	25.54
Side Mode								
1301.639	25.44	4.56	32.36	-2.27	48.77	44.14	53.90	9.76
1736.641	26.35	5.43	32.16	-2.27	41.02	38.37	53.90	15.53
2170.490	27.10	6.33	32.11	-2.27	34.84	33.89	53.90	20.01
2600.544	27.77	6.97	32.23	-2.27	27.14	27.38	53.90	26.52
Lying Mode								
1302.860	25.44	4.56	32.36	-2.27	43.04	38.41	53.90	15.49
1735.564	26.35	5.43	32.16	-2.27	33.03	30.38	53.90	23.52
2169.654	27.10	6.33	32.11	-2.27	29.32	28.37	53.90	25.53
2600.635	27.77	6.97	32.23	-2.27	27.01	27.25	53.90	26.65

- Remark :
1. Emission Level = Ant. Factor + Cable Loss + Meter Reading (Peak Value) + Correction Factor – Pre-Amp. Factor
 2. Correction Factor = $20\log \text{Duty Cycle} = 20\log \frac{56.9\text{ms}}{73.9\text{ms}} = -2.27$
 3. Measurement was up to 10th harmonic (~5GHz), but the emission level are too low against the official limit and not report.

- Photos of Radiated Measurement at Open Field Test Site

Test Mode : Stand



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST

Test Mode : Side



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST

Test Mode : Lying



FRONT VIEW OF RADIATED TEST



BACK VIEW OF RADIATED TEST

- Photo of Duty Cycle Measurement

