

12. Radiated Emissions Test Data

EUT Models : RF-525

Frequency range : 30MHz to 1GHz

Detector : Quasi-Peak Value

Frequency range : above 1GHz

Detector : Quasi-Peak/Average Value

Temperature : 27° C

R. Humidity : 45 %

Memo : TX OFF (CH1)

Antenna polarization : HORIZONTAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
120.014	28.94	-14.56	43.50	35.42	12.10	1.40	19.98	354.0	4.0
132.016	30.32	-13.18	43.50	37.92	11.00	1.40	20.00	350.0	4.0
156.020	26.93	-16.57	43.50	35.28	9.76	1.79	19.90	355.0	4.0
168.022	29.40	-14.10	43.50	38.03	9.23	1.96	19.82	359.0	4.0
240.021	30.85	-15.15	46.00	36.26	11.33	2.66	19.40	357.0	4.0
246.147	27.87	-18.13	46.00	32.79	12.17	2.81	19.90	351.0	4.0
252.154	29.59	-16.41	46.00	33.44	13.08	2.92	19.85	354.0	4.0
336.145	27.23	-18.77	46.00	29.80	13.88	3.56	20.01	350.0	3.9
360.142	29.79	-16.21	46.00	31.81	14.23	3.65	19.90	358.0	3.8
366.141	29.12	-16.88	46.00	31.05	14.29	3.68	19.90	354.0	3.9

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz **Detector : Quasi-Peak Value**
Frequency range : above 1GHz **Detector : Quasi-Peak/Average Value**
Temperature : 27° C **R. Humidity : 45 %**
Memo : TX OFF (CH1)

Antenna polarization : VERTICAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over	Limit	Read	Antenna	Cable	Preamp	Azimuth (° angle)	Antenna High(m)
		Limit	Line	Level	Factor	Loss	Factor		
120.013	33.51	- 9.99	43.50	39.99	12.10	1.40	19.98	359.0	1.0
132.016	32.40	-11.10	43.50	40.00	11.00	1.40	20.00	353.0	1.0
156.019	30.64	-12.86	43.50	38.99	9.76	1.79	19.90	354.0	1.0
168.023	30.00	-13.50	43.50	38.63	9.23	1.96	19.82	358.0	1.0
240.020	24.80	-21.20	46.00	30.21	11.33	2.66	19.40	356.0	1.0
252.154	26.66	-19.34	46.00	30.51	13.08	2.92	19.85	356.0	1.0
257.994	28.80	-17.20	46.00	31.86	13.94	2.98	19.98	351.0	1.0
336.141	28.07	-17.93	46.00	30.64	13.88	3.56	20.01	350.0	1.1
366.141	27.06	-18.94	46.00	28.99	14.29	3.68	19.90	353.0	1.1
372.139	24.97	-21.03	46.00	26.80	14.37	3.70	19.90	352.0	1.1

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz
Frequency range : above 1GHz
Temperature : 27° C
Memo : TX ON (CH1)

Detector : Quasi-Peak Value
Detector : Quasi-Peak/Average Value
R. Humidity : 45 %

Antenna polarization : HORIZONTAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
27.034	26.13	-53.87	80.00	26.13	12.10	1.40	19.98	352.0	4.0
120.018	29.57	-13.93	43.50	36.05	12.10	1.40	19.98	353.0	4.0
150.001	24.93	-18.57	43.50	33.53	9.70	1.60	19.90	359.0	4.0
156.019	24.51	-18.99	43.50	32.86	9.76	1.79	19.90	350.0	4.0
168.022	26.02	-17.48	43.50	34.65	9.23	1.96	19.82	352.0	4.0
216.026	26.08	-19.92	46.00	34.53	9.20	2.23	19.88	357.0	4.0
240.026	28.55	-17.45	46.00	33.96	11.33	2.66	19.40	351.0	4.0
252.151	25.42	-20.58	46.00	29.27	13.08	2.92	19.85	354.0	4.0
336.097	25.58	-20.42	46.00	28.15	13.88	3.56	20.01	350.0	3.9
360.038	31.96	-14.04	46.00	33.98	14.23	3.65	19.90	351.0	3.9
366.199	27.14	-18.86	46.00	29.06	14.30	3.68	19.90	353.0	3.9

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz **Detector : Quasi-Peak Value**
Frequency range : above 1GHz **Detector : Quasi-Peak/Average Value**
Temperature : 27° C **R. Humidity : 45 %**
Memo : TX ON (CH1)

Antenna polarization : VERTICAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over	Limit	Read	Antenna	Cable	Preamp	Azimuth (° angle)	Antenna High(m)
		Limit	Line	Level	Factor	Loss	Factor		
27.034	21.34	-58.66	80.00	21.34	12.10	1.40	19.98	352.0	1.0
120.007	32.65	-10.85	43.50	39.13	12.10	1.40	19.98	356.0	1.0
144.076	32.47	-11.03	43.50	40.18	10.48	1.54	19.73	359.0	1.0
150.003	31.03	-12.47	43.50	39.63	9.70	1.60	19.90	358.0	1.0
156.018	27.91	-15.59	43.50	36.26	9.76	1.79	19.90	351.0	1.0
168.022	30.81	-12.69	43.50	39.44	9.23	1.96	19.82	353.0	1.0
240.026	28.10	-17.90	46.00	33.51	11.33	2.66	19.40	350.0	1.0
252.152	27.68	-18.32	46.00	31.53	13.08	2.92	19.85	356.0	1.0
312.296	25.66	-20.34	46.00	29.05	13.35	3.46	20.20	352.0	1.1
360.199	29.93	-16.07	46.00	31.95	14.23	3.65	19.90	355.0	1.1
366.199	30.54	-15.46	46.00	32.46	14.30	3.68	19.90	351.0	1.1

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz
Frequency range : above 1GHz
Temperature : 27° C
Memo : TX OFF (CH2)

Detector : Quasi-Peak Value
Detector : Quasi-Peak/Average Value
R. Humidity : 45 %

Antenna polarization : HORIZONTAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
120.014	30.39	-13.11	43.50	36.87	12.10	1.40	19.98	358.0	4.0
156.020	28.61	-14.89	43.50	36.96	9.76	1.79	19.90	353.0	4.0
168.024	27.32	-16.18	43.50	35.95	9.23	1.96	19.82	351.0	4.0
240.035	26.93	-19.07	46.00	32.34	11.33	2.66	19.40	350.0	4.0
246.151	26.93	-19.07	46.00	31.85	12.17	2.81	19.90	354.0	4.0
252.151	27.66	-18.34	46.00	31.51	13.08	2.92	19.85	353.0	4.0
258.098	26.01	-19.99	46.00	28.96	14.03	2.99	19.97	358.0	4.0
336.020	27.55	-18.45	46.00	30.12	13.88	3.56	20.01	357.0	4.0
348.050	29.59	-16.41	46.00	31.83	14.07	3.61	19.92	351.0	3.8
360.042	30.28	-15.72	46.00	32.30	14.23	3.65	19.90	352.0	3.9

Note :

1. Level = Read Level + Probe Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz **Detector : Quasi-Peak Value**
Frequency range : above 1GHz **Detector : Quasi-Peak/Average Value**
Temperature : 27° C **R. Humidity : 45 %**
Memo : TX OFF (CH2)

Antenna polarization : VERTICAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
120.014	31.99	-11.51	43.50	38.47	12.10	1.40	19.98	353.0	1.0
132.016	27.60	-15.90	43.50	35.20	11.00	1.40	20.00	356.0	1.0
144.028	29.47	-14.03	43.50	37.18	10.48	1.54	19.73	351.0	1.0
156.016	26.78	-16.72	43.50	35.13	9.76	1.79	19.90	358.0	1.0
168.024	29.27	-14.23	43.50	37.90	9.23	1.96	19.82	357.0	1.0
240.035	26.08	-19.92	46.00	31.49	11.33	2.66	19.40	352.0	1.0
252.151	26.78	-19.22	46.00	30.63	13.08	2.92	19.85	359.0	1.0
336.020	29.52	-16.48	46.00	32.09	13.88	3.56	20.01	356.0	1.1
360.042	27.05	-18.95	46.00	29.07	14.23	3.65	19.90	352.0	1.1
366.042	28.34	-17.66	46.00	30.27	14.29	3.68	19.90	351.0	1.1

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz
Frequency range : above 1GHz
Temperature : 27° C
Memo : TX ON (CH2)

Detector : Quasi-Peak Value
Detector : Quasi-Peak/Average Value
R. Humidity : 45 %

Antenna polarization : HORIZONTAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit Line (dBuV/m)	Read Level (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
27.135	29.69	-50.31	80.00	29.69	12.00	1.40	19.98	355.0	4.0
120.014	29.16	-14.34	43.50	35.64	12.10	1.40	19.98	357.0	4.0
132.024	25.56	-17.94	43.50	33.16	11.00	1.40	20.00	351.0	4.0
144.021	26.95	-16.55	43.50	34.66	10.48	1.54	19.73	354.0	4.0
156.019	26.53	-16.97	43.50	34.88	9.76	1.79	19.90	358.0	4.0
168.024	26.42	-17.08	43.50	35.05	9.23	1.96	19.82	351.0	4.0
240.025	25.42	-20.58	46.00	30.83	11.33	2.66	19.40	359.0	4.0
252.229	24.84	-21.16	46.00	28.69	13.08	2.92	19.85	352.0	4.0
312.035	27.71	-18.29	46.00	31.10	13.35	3.46	20.20	355.0	3.8
336.035	29.14	-16.86	46.00	31.71	13.88	3.56	20.01	356.0	3.9
360.042	26.92	-19.08	46.00	28.94	14.23	3.65	19.90	357.0	3.9

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

EUT Models : RF-525
Frequency range : 30MHz to 1GHz Detector : Quasi-Peak Value
Frequency range : above 1GHz Detector : Quasi-Peak/Average Value
Temperature : 27° C R. Humidity : 45 %
Memo : TX ON (CH2)

Antenna polarization : VERTICAL ; Test distance : 3m ;

Freq. (MHz)	Level (dBuV/m)	Over Limit (dB)	Limit (dBuV/m)	Read Level (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Azimuth (° angle)	Antenna High(m)
27.135	25.25	-54.75	80.00	25.25	12.10	1.40	19.98	352.0	1.0
120.014	28.90	-14.60	43.50	35.38	12.10	1.40	19.98	353.0	1.0
132.026	26.25	-17.25	43.50	33.85	11.00	1.40	20.00	354.0	1.0
156.019	24.91	-18.59	43.50	33.26	9.76	1.79	19.90	356.0	1.0
168.024	26.21	-17.29	43.50	34.84	9.23	1.96	19.82	353.0	1.0
240.024	25.19	-20.81	46.00	30.60	11.33	2.66	19.40	359.0	1.0
246.151	24.91	-21.09	46.00	29.83	12.17	2.81	19.90	351.0	1.0
252.153	26.63	-19.37	46.00	30.48	13.08	2.92	19.85	353.0	1.0
336.035	30.52	-15.48	46.00	33.09	13.88	3.56	20.01	354.0	1.1
360.042	28.96	-17.04	46.00	30.98	14.23	3.65	19.90	350.0	1.1
377.991	29.84	-16.16	46.00	31.40	14.62	3.72	19.90	356.0	1.0

Note :

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor
2. Over Limit = Level – Limit Line

FCC ID: P4PRF-525

REPORT NO. :E900666

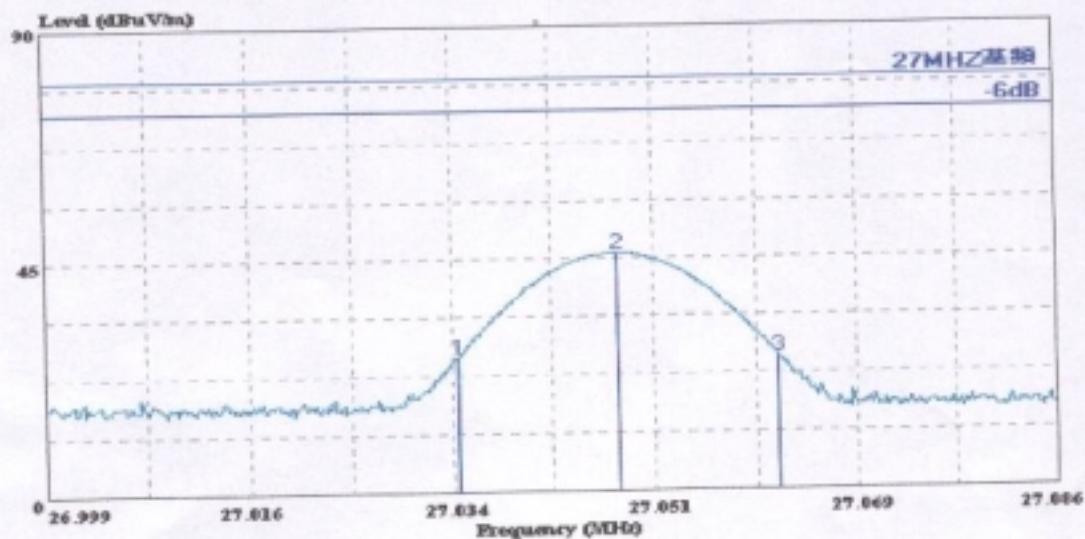
13. Occupied Bandwidth Plot Data



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PEP Testing Laboratory

Data#: 2699 File#: CE.emi

Date: 2001-10-02 Time: 10:46:36



Trace: 2698

Site : Chamber No.1 (STEVEN)
 Condition: 27MHZ基頻 3m 3142BH(26-2000MHZ) HORIZONTAL
 Eut : RF-525
 Power : DC3V*
 Memo : CH1:27.045MHz

Page: 1

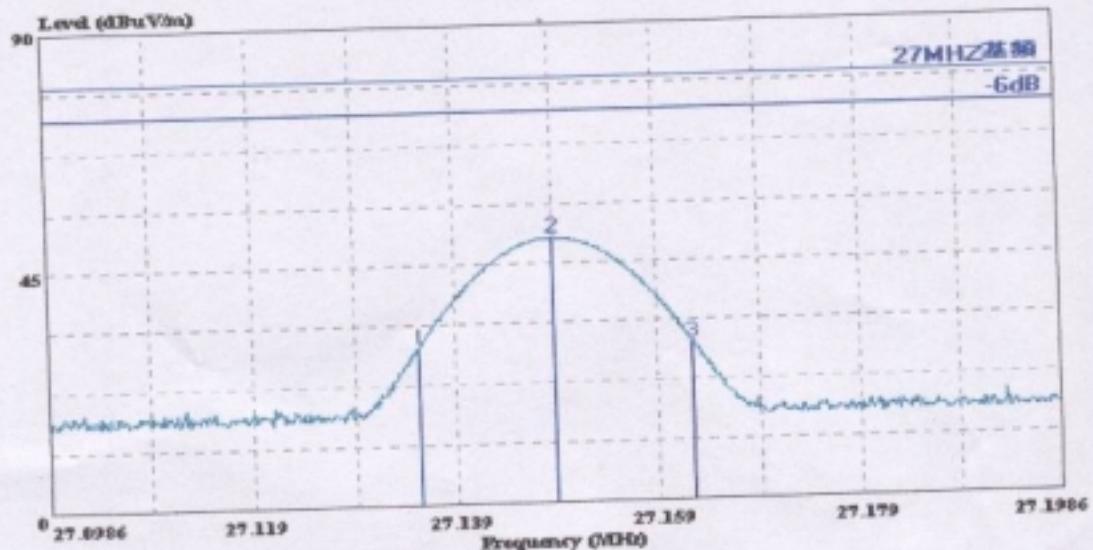
Freq	Level	Over Limit	Read Line	Probe Level	Cable Preamp		
					MHz	dBuV/m	dB
1	27.034	26.13	-53.87	80.00	26.13	0.00	0.00
2	27.048	46.18	-33.82	80.00	46.18	0.00	0.00
3	27.062	25.89	-54.11	80.00	25.89	0.00	0.00



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PEP Testing Laboratory

Data#: 2711 File#: CE.emi

Date: 2001-10-02 Time: 11:50:18



Trace: 2710

Site : Chamber No.1 (STEVEN)

Condition: 27MHZ基頻 3m 3142BH(26-2000MHz) HORIZONTAL

Eut : RF-525

Power : DV3V

Memo : CH2:27.145MHz

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	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Preamp Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	27.135	29.69	-50.31	80.00	29.69	0.00	0.00	0.00
2	27.149	49.84	-30.16	80.00	49.84	0.00	0.00	0.00
3	27.162	29.78	-50.22	80.00	29.78	0.00	0.00	0.00

FCC ID: P4PRF-525

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14. List of Measured Instruments

Test Mode	Instrument	Model No.	Serial No.	Next Cal. Date	Cal. Interval	Measurement Uncertainty
Conduction (No.1)	R & S Receiver	ESHS10	830223/008	Nov. 14, 2002	1 Year	
	Rolf Heine LISN	NNB-4/63TL	98008	No need (2 nd LISN)	1 Year	
	R & S LISN	ESH3-Z5	844982/039	Jul. 25, 2002	1 Year	
	Spectrum Analyzer	R3261A	91720076	May 03, 2002	1 Year	
	RF Cable	Rg400	N/A	Jul. 08, 2002	1 Year	
	Schaffner ISN	T411	N/A	Jul. 01, 2002	1 Year	
Radiation (OP No.1)	R & S Receiver	ESVS30	863342/012	May 07, 2002	1 Year	
	Anritsu Pre-Amp.	MH648A	M15080	Apr. 10, 2002	1 Year	
	R & S Pre-Amp.	ESMI-Z7	612278/011	Aug. 02, 2002	1 Year	
	Schaffner Antenna	CBL6112B (30MHz-2GHz)	2655	Jul. 27, 2002	1 Year	
	COM-Power Horn Ant.	AH-118 (1GHz-18GHz)	10095	July 25, 2002	1 Year	
	EMCO RF Cable	175series	NO. 1	Apr. 10, 2002	1 Year	
	Schwarzbeck Precision Dipole Ant	VHAP (30MHz-4GHz)	970 + 971 953 + 954	Jun. 27, 2003	3 Year	
	R & S Signal Generator	SMY01	841104/037	Aug. 26, 2002	1 Year	
	RF Cable	No. 1	N/A	Jul. 26, 2002	1 Year	
	EMCO Antenna	3142B (26MHz-2GHz)	9904-1307	July 01, 2002	1 Year	

15. Duties of The Responsible Party

The responsible party upon signing or accepting the Declaration of Conformity as specified in Section 2.906 of the FCC Rules hereby agrees to the duties listed below.

§ 2.1073(a).

The responsible party warrants that each unit of equipment marketed under DoC is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced is within the variation that can be expected due to quantity production and testing on a statistical bass.

§ 2.1073(b).

The responsible party must have a written statement from the manufacturer or accredited test laboratory that the equipment complies with the appropriate technical standards.

§ 2.1073(c).

In case of transfer of control of equipment, as in the case of sale or merger, the new responsible party shall bear the responsibility of continued compliance of the equipment.

§ 2.1073(d).

Equipment shall be retested if any modifications or changes are made that could adversely affect the emanation characteristics of the equipment.

§ 2.1073(e).

If any modifications or changes made by anyone other than the responsible party, the party making the modifications of changes, if located within the U.S., becomes the new responsible part. The new responsible party must comply with all provisions for the DoC, including having test data on file demonstrating that the product continues to comply with all of the applicable technical standards.

§ 2.1075(a)(1).

The responsible party shall maintain records of the original design drawings and specifications and all changes made to the product that may affect compliance.

§ 2.1075(a)(2).

The responsible party shall maintain records of the procedures used for production inspection and testing to insure the conformance with the FCC Rules.

§ 2.946(a)(1).

The test report data shall be provided to the FCC within 14 days of delivery of request. The test sample(s) shall be provided within 60 days of delivery of request.

§ 2.946(b)

In case involving harmful interference or safety of life or property, the production sample must be provided within 60 days, but not less than 14 days. Failure to comply with such a request with the time frame shown may be cause for forfeiture, pursuant to Section 1.80 of Part 1 of the FCC Rules.

**The Responsible Party is the manufacturer, system integrator, or the importer as defined in Section 2.909 of the FCC Rules. The Rules. The Responsible Party for a DoC must be located within the United States as specified in Section 2.1077.*

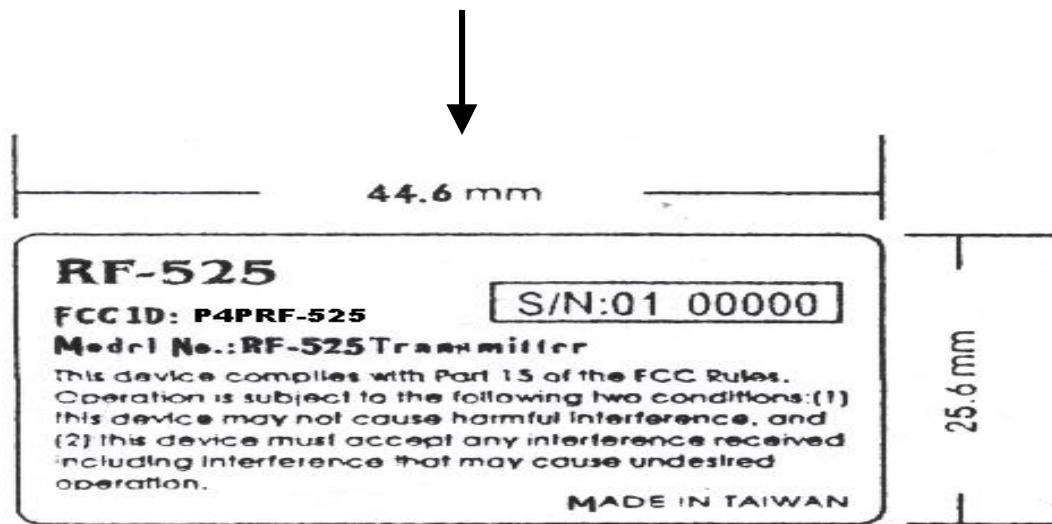
FCC ID: P4PRF-525

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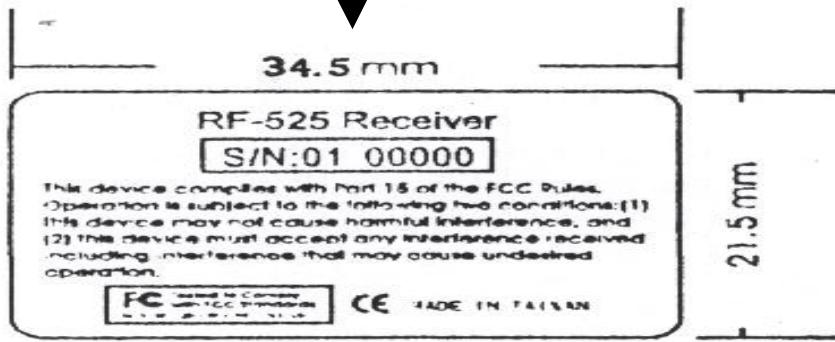
16. FCC ID Label Sample

The sample label shown below shall be permanently affixed at a conspicuous location on the device, instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase. However, when the device is so small wherein placement of the label with specified statement is not practicable, only the trade name, model number, and the FCC logo must be displayed on the device per Section § 15.19 (b)(2).

EUT Label A



EUT Label B



17. Information To The User

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures :

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver .
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected .
- Consult the dealer or an experienced radio / TV technician for help .

FCC ID: P4PRF-525

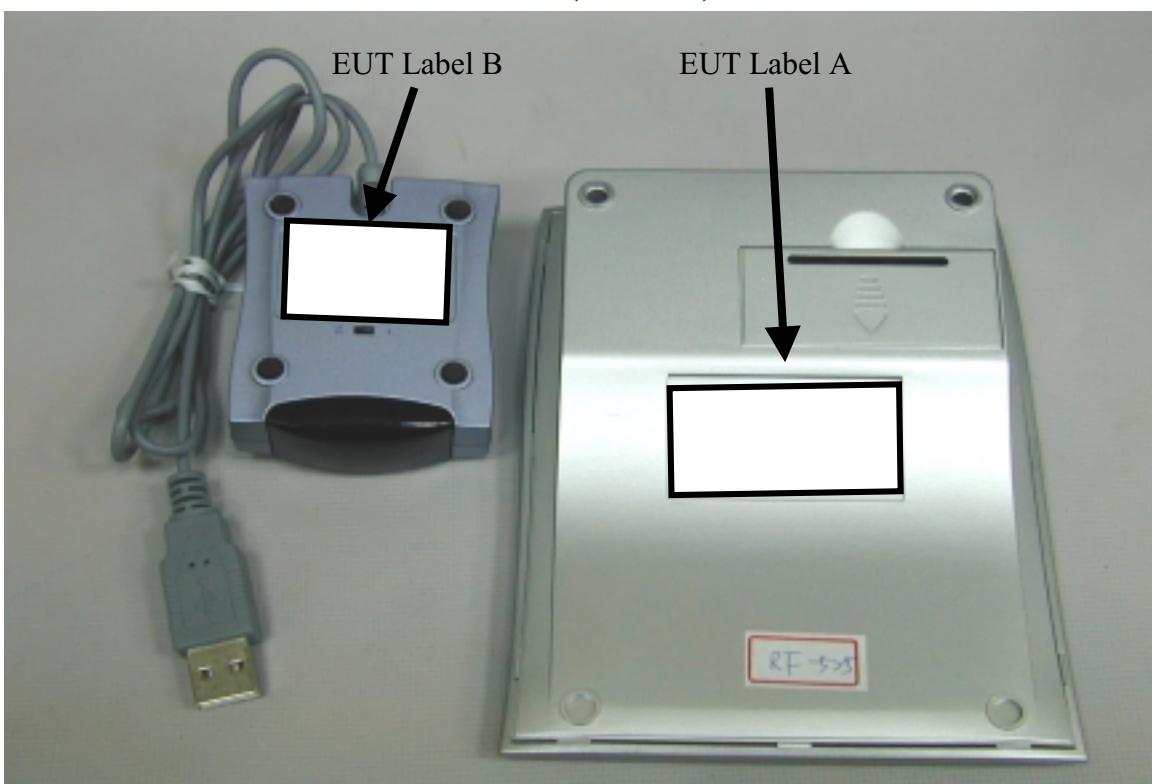
REPORT NO. :E900666

18. EUT External Photos

PHOTO. 1. EUT (TX + RX) TOP VIEW



PHOTO. 2. EUT (TX + RX) BOTTOM VIEW



FCC ID: P4PRF-525

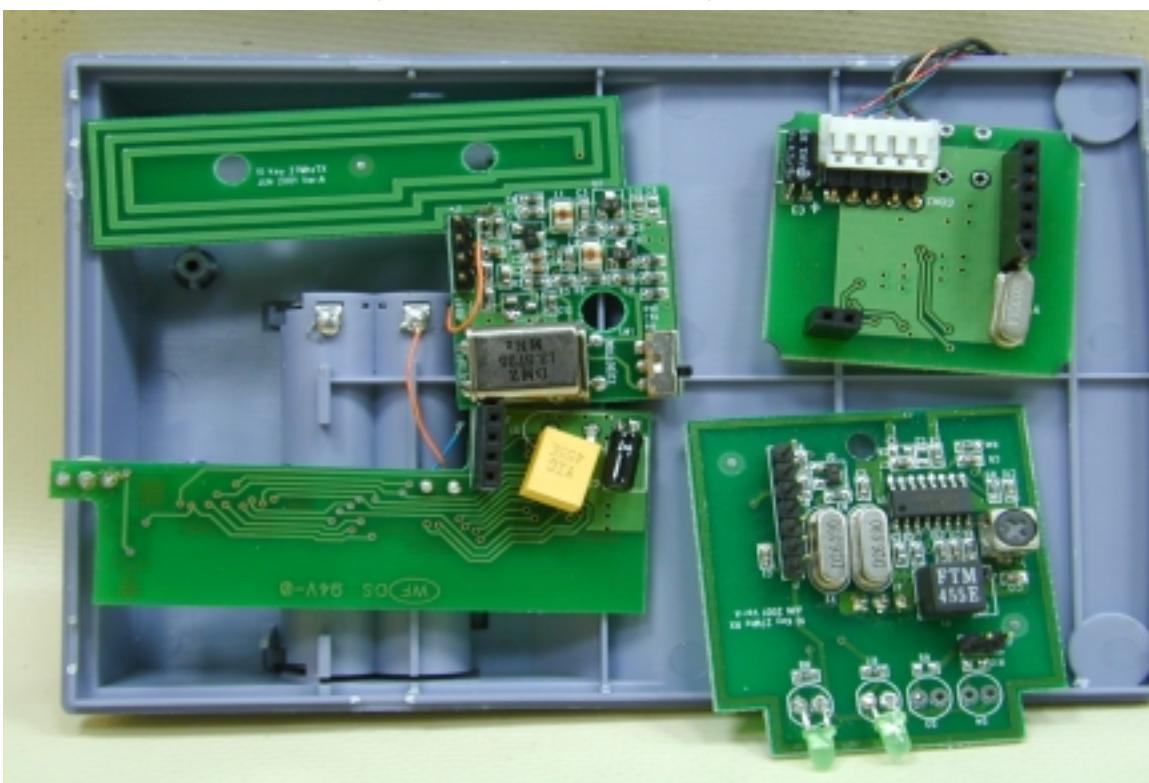
REPORT NO. :E900666

18. EUT Internal Photos

PHOTO. 3. EUT (TX + RX Model RF-525) INSIDE VIEW



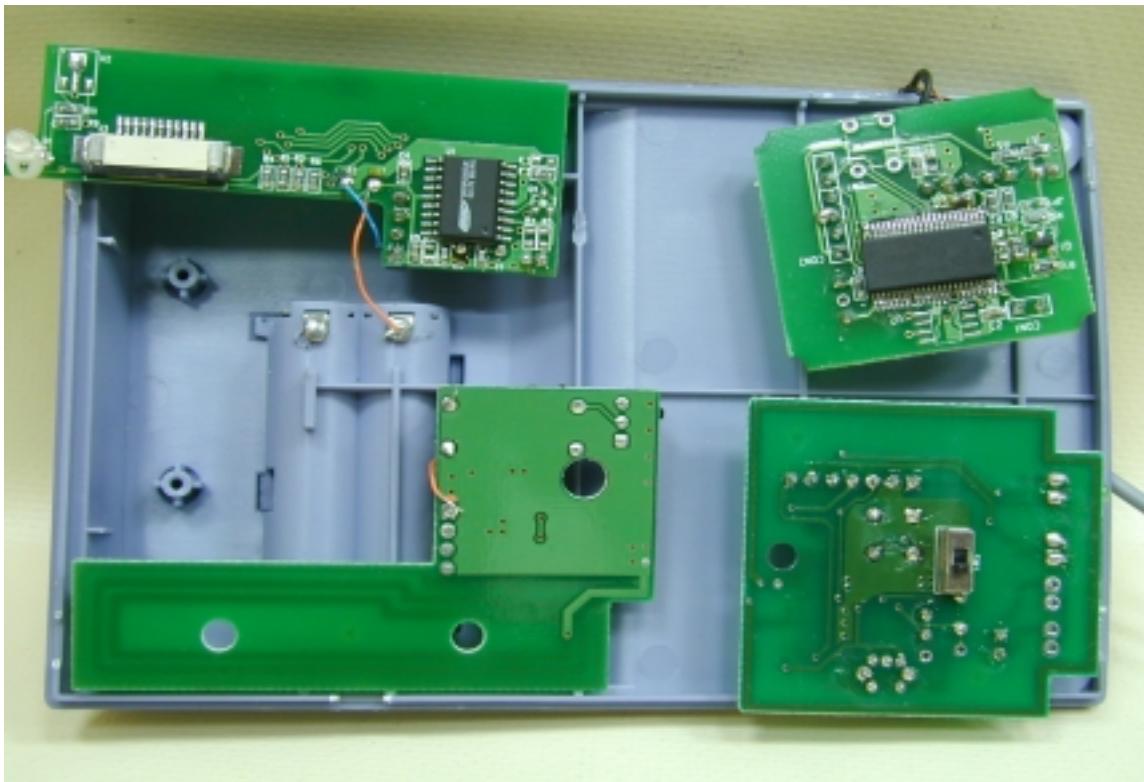
PHOTO. 4. EUT (TX + RX Model RF-525) COMPONENT SIDE VIEW



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PHOTO. 5. EUT (TX + RX Model RF-525) SOLDERING SIDE VIEW



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PHOTO. 1. EUT (TX + RX) TOP VIEW (RF-530)



PHOTO. 2. EUT (TX + RX) BOTTOM VIEW



FCC ID: P4PRF-525

REPORT NO. :E900666

PHOTO. 1. EUT (TX + RX) TOP VIEW (RF-540)



PHOTO. 2. EUT (TX + RX) BOTTOM VIEW

