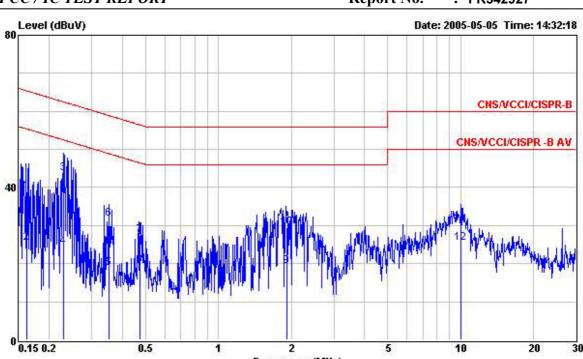
5

10

20

30



2

Frequency (MHz)

0.5

 Site
 : CO01-HY

 Condition
 : CNS/VCCI/CISPR-B 2003 2001/008 NEUTRAL

 EUT
 : WLAN b+g AP

 Power
 : 120Vac/60Hz

 Model
 : FD542927

 Memo
 : USB + Ping

		9653 163 100	0ver	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
5 <u>2/-</u>	MHz	dBuV	dB	dBuV	dBuV	dB	dB	-
1	0.162	38.95	-26.41	65.36	38.84	0.10	0.01	QP
2	0.162	25.42	-29.94	55.36	25.31	0.10	0.01	Average
3	0.228	43.65	-18.87	62.52	43.54	0.10	0.01	QP
4	0.228	24.37	-28.15	52.52	24.26	0.10	0.01	Average
5	0.354	18.81	-30.06	48.87	18.68	0.10	0.03	Average
5 6 7	0.354	31.84	-27.03	58.87	31.71	0.10	0.03	QP
	0.472	27.31	-29.16	56.47	27.18	0.10	0.03	QP
8	0.472	19.51	-26.96	46.47	19.38	0.10	0.03	Average
9	1.910	19.23	-26.77	46.00	19.08	0.10	0.05	Average
10	1.910	29.58	-26.42	56.00	29.43	0.10	0.05	QP
11	10.070	30.51	-29.49	60.00	30.18	0.20	0.13	QP
12	10.070	25.45	-24.55	50.00	25.12	0.20	0.13	Average

Test Engineer:

Jay

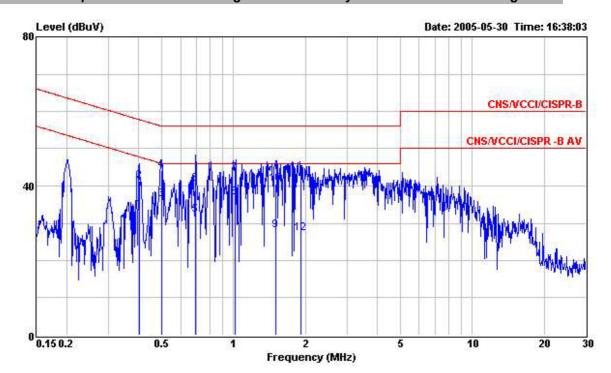
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5.4.3 Frequency Range of Test: 150kHz to 30 MHz

Test Mode: Mode 2 Temperature: 24°C Relative Humidity: 52%

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO01-HY
Condition : CNS/VCCI/CISPR-B 2005 2001/008 LINE

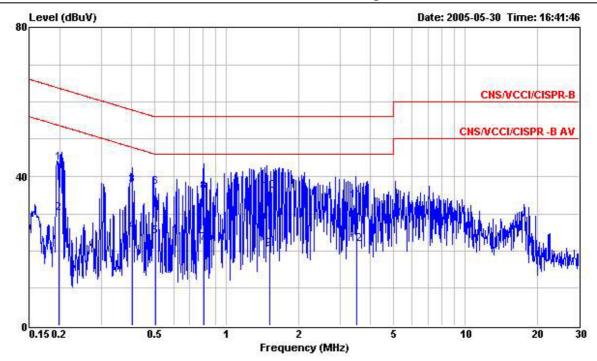
: WLAN b+g AP : 120Vac/60Hz EUT Power : FD542927 : Ping+DVE Model Memo

L'IOMBO	. This in							
			0ver	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
<u> 1</u>	MHz	dBuV	dB	dBuV	dBuV	dB	dB	(b)
1	0.405	33.50	-14.26	47.76	33.35	0.10	0.05	Average
2	0.405	41.42	-16.34	57.76	41.27	0.10	0.05	QP
3	0.499	36.34	-9.68	46.02	36.19	0.10	0.05	Average
4	0.499	44.07	-11.95	56.02	43.92	0.10	0.05	QP
5	0.696	32.23	-13.77	46.00	32.09	0.10	0.04	Average
6	0.696	40.53	-15.47	56.00	40.39	0.10	0.04	QP
7	1.017	43.39	-12.61	56.00	43.25	0.10	0.04	QP
8	1.017	36.96	-9.04	46.00	36.82	0.10	0.04	Average
9	1.505	27.97	-18.03	46.00	27.82	0.10	0.05	Average
10	1.505	40.55	-15.45	56.00	40.40	0.10	0.05	QP
11	1.913	40.12	-15.88	56.00	39.96	0.10	0.06	QP
12	1.913	27.22	-18.78	46.00	27.06	0.10	0.06	Average

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 Site
 : CO01-HY

 Condition
 : CNS/VCCI/CISPR-B 2005 2001/008 NEUTRAL

 EUT
 : WLAN b+g AP

 Power
 : 120Vac/60Hz

 Model
 : FD542927

 Memo
 : Ping+DVE

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
655	MHz	dBuV	dB	dBuV	dBuV	dB	dB	<u> </u>
1	0.198	43.55	-20.13	63.68	43.43	0.10	0.02	QP
2	0.198	30.17	-23.51	53.68	30.05	0.10	0.02	Average
3	0.402	37.78	-20.03	57.81	37.63	0.10	0.05	QP
4	0.402	25.22	-22.59	47.81	25.07	0.10	0.05	Average
5	0.502	23.91	-22.09	46.00	23.76	0.10	0.05	Average
6	0.502	37.20	-18.80	56.00	37.05	0.10	0.05	QP
7	0.801	22.06	-23.94	46.00	21.92	0.10	0.04	Average
8	0.801	35.84	-20.16	56.00	35.70	0.10	0.04	QP
9	1.522	20.53	-25.47	46.00	20.38	0.10	0.05	Average
10	1.522	36.01	-19.99	56.00	35.86	0.10	0.05	QP
11	3.497	33.42	-22.58	56.00	33.19	0.18	0.05	QP
12	3.497	21.88	-24.12	46.00	21.65	0.18	0.05	Average

Test Engineer:

Jay

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5.7 Radiated Emission Measurement

5.7.1 Measuring Instruments

As described in chapter 6 of this Report.

5.7.2 Test Procedures

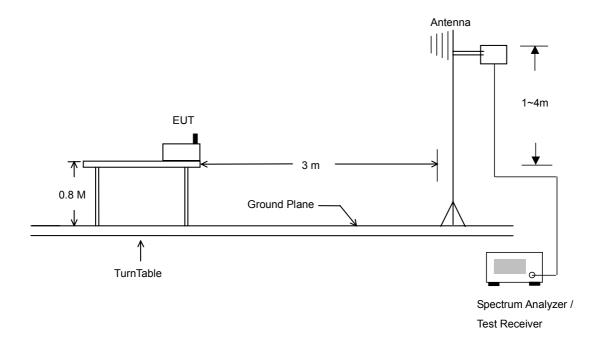
- 1. The EUT was placed on a rotatable table top 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

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- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 7. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- 8. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

5.7.3 Typical Test Setup Layout of Radiated Emission



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5.7.4 Test Data

Temperature: 26°C
Relating Humidity: 58%
Test Enginner: Jay
Test Mode: Mode 1

· Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

10 amore 40 april	Freq	Level	Over Limit			Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	<u>dB</u>	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	dBu∀	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1	1844.00	58.96	-15.04	74.00	61.39	29.51	35.34	3.40	Peak		
2 !	1844.00	53.45	-0.55	54.00	55.88	29.51	35.34	3.40	Average	100	147
3	2390.00	43.51	-10.49	54.00	44.44	30.48	35.46	4.04	Average		
4	2390.00	58.37	-15.63	74.00	59.31	30.48	35.46	4.04	Peak		
4 5 X 6 @	2412.00	105.50			106.45	30.47	35.46	4.04	Peak		
6 @	2412.00	98.60			99.55	30.47	35.46	4.04	Average	100	147
7	2478.00	42.94	-11.06	54.00	43.90	30.41	35.51	4.13	Average	20000	(2.30A)
8	2478.00	54.97	-19.03	74.00	55.93	30.41	35.51		Peak		

Remark: #3 and #4 Fundamental Signal

	Freq	Level		Limit Line						Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{dBuV/m}}$	dBu∇	$-\overline{dB/m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1 2 3 4	3214.00 3214.00 4824.00 4824.00	43.06 49.17	-10.94 -24.83	74.00 54.00 74.00 54.00	43.57 45.87	30.22 33.21	35.56 35.56 36.12 36.12	4.84 6.21	Peak Average Peak Average	200 100 200 124	0 23 0 56

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

57 599 90 45 855500 5	Freq	Level	Over Limit	Limit Line		Antenna Factor	Preamp Factor		Remark	Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}/\overline{\mathtt{m}}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	dB7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>			deg
1 2 3 X 4 @	2390.00 2390.00 2412.00 2412.00	45.45 109.36 101.55		54.00	110.31 102.50	30.48 30.47 30.47	35.46 35.46 35.46	4.04 4.04 4.04	Peak Average Peak Average	100 100 100 100	0 0 0 180
5	2488.00 2488.00	43.04	-10.96	5434.5.7070	7070.0.000	7/1/5/10/5/11/1/5/1	70500.507	33.00.37.70	Peak Average	100 100	

Remark: # 3 and #4 Fundamental Signal

	Freq	Level	Over Limit				Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	\overline{dB}	$\overline{\tt dBuV7m}$	dBuV	$\overline{dB/m}$	\overline{dB}	dB		cm	deg
1 2 3 4	3214.00 3214.00 4824.00 4824.00	45.78 50.16	-8.22 -23.84	74.00	51.69 46.29 46.86 41.63	30.22 33.21	35.56 35.56 36.12 36.12	4.84 6.21	Peak Average Peak Average	200 100 200 119	0 55 0 65

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Test Mode : Mode 2 Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	$\overline{dBuV7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\overline{-dBuV}$	<u>d</u> B7m	\overline{dB}	<u>dB</u>		cm	deg
1 @ 2 @ 3 @	2390.00 2390.00	46.12		74.00 54.00		30.48 30.48	35.46	4.04	Peak Average	100	198
3 @ 4 @ 5 @	2437.00 2437.00 2488.00	103.95	-17.70	74.00	112.81 104.90 57.27	30.46 30.46 30.40		4.07	Peak Average Peak		
6 @	2488.00	44.12	-9.88	54.00	45.10	30.40	35.51	4.13	Average	-11	

Remark: #3 and #4 Fundamental Signal

	Freq	Level				Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	<u>d</u> B7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		cm	deg
1 @ 2 @	3248.00 3248.00								Peak Average		

· Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit				Preamp Factor		Remark	Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	dB	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	dBu∇	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	āB		cm	deg
1 @	2390.00		-16.59	74.00	58.34		35.46		Peak		
2 @ 3 @	2390.00 2437.00	10.00	-7.48	54.00	47.45 113.06	30.48 30.46	35.46 35.47		Average Peak		
4 @ 5 @	2437.00 2488.00	The Control of the Control of	-18.68	74.00	105.20 56.29	30.46			Average Peak	100	197
6 @	2488.00		-8.49		46.49				Average		

Remark: #3 and #4 Fundamental Signal

	Freq	Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	dBuV	$-\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>	VO 400 400 400 400 400 400 400 400 400 40		deg
1 @ 2 @ 3 @ 4 @	3248.00 3248.00 4874.00 4874.00	50.20 44.92 49.03 45.62	-9.08 -24.97	54.00 74.00	50.71 45.44 45.54 42.13	30.20 30.20 33.39 33.39	35.57 36.16	4.85 6.26	Peak Average Peak Average		

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Test Mode : Mode 3 Polarization: Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit	Limit Line		Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	$-\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	\overline{dB}		cm	deg
1 2 3 X	2364.00 2364.00 2462.00		-10.94 -19.58	54.00 74.00	43.99 55.36 108.04	30.51 30.51 30.43	35.42 35.42 35.49	3.98	Average Peak Peak	100 100 100	148
4 @ 5 6	2462.00 2483.50 2483.50	TO 100 100 100 100 100 100 100 100 100 10	-15.59 -6.05	74.00 54.00	101.30 59.37 48.91	30.43 30.41 30.41	35.49 35.51 35.51	4.10 4.13	Average Peak Average	100 100 100	148 0 148

Remark: #3 and #4 Fundamental Signal

	Freq	Level		Limit Line					Remark	Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	−−−−dB	$\overline{\tt dBuV/m}$	dBuV	$-\overline{dB/m}$	\overline{dB}	<u>dB</u>		cm	deg
1 2	3284.00 3284.00			74.00 54.00				050 000 000	Peak Average	200 100	0 26

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	\overline{dB}	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\overline{-dBuV}$	$-\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	−−−−dB		cm	deg
1 2 3 X	2384.00 2384.00	42.85	-19.72 -11.15		55.22 43.78	30.50	35.44 35.44	4.01	Peak Average	101	27
3 X 4 @ 5	2464.00 2464.00 2483.50	101.24	-13.39	74.00	104.70 102.20 61.58	30.43 30.43 30.41	35.49 35.49 35.51	4.10	Peak Average Peak	101	27
6 !	2483.50	53.72	-0.28	54.00	54.68	30.41	35.51	4.13	Average	101	27

Remark: #3 and #4 Fundamental Signal

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	<u>MHz</u>	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBu∇	$\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	v. n. n. n. n. n. n. n. n. n.	cm	deg
1 2	3284.00 3284.00			74.00 54.00					Peak Average	200 100	0 56

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Test Mode : Mode 4 Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Fre	q Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	M}	z dBuV/m	dB	dBuV7m	dBuV	—dB7m	\overline{dB}	dB		cm	deg
1 !	2390.0	0 53.48	-0.52	54.00	54.41	30.48	35.46	4.04	Average		
2 3 X	2390.0	0 64.73	-9.27	74.00	65.66	30.48	35.46	4.04	Peak		
3 X	2412.0	0 109.41			110.36	30.47	35.46		Peak		
4 @	2412.0	0 102.07			103.02	30.47	35.46	4.04	Average		
5	2494.0	0 38.46	-15.54	54.00	39.42	30.41	35.51	4.13	Average		
б	2494.0	0 50.42	-23.58	74.00	51.38	30.40	35.53	4.17	Peak -		

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Remark: #3 and #4 Fundamental Signal.

	Freq	Level					Preamp Factor		Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} 7m}$	dBu∇	$\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	\overline{dB}	cm	deg
1 2	3214.00 4824.00						35.56 36.12			

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit				Preamp Factor		Remark	Ant Pos	Table Pos
	M H z	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	dB7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	\overline{dB}		cm	deg
1 2 3 X 4 X		60.42 105.33		54.00 74.00	106.28	30.48 30.47	35.46 35.46	4.04 4.04	Average Peak <mark>Peak</mark>		111
4 X 5 6	2412.00 2483.50 2483.50	38.05	-15.95 -25.83	700000000000000000000000000000000000000	9 7.45 39.01 49.13	30.47 30.41 30.41	35.46 35.51 35.51	4.13	<mark>Average</mark> Average Peak		

Remark: #3 and #4 Fundamental Signal

	Freq	Level		Limit Line						Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} /m}$	$\overline{d}\overline{B}$	$\overline{\tt dBuV/m}$	dBuV	−dB7m	$\overline{d}\overline{B}$	<u>dB</u>		cw	deg
1 2	3214.00 3214.00			74.00 54.00					Peak Average		
2 3	4824.00			74.00					Peak		

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Test Mode : Mode 5Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit	Limit Line		Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	МНг	$\overline{dBuV/m}$	dB	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/}\overline{m}$	dBuV	_dB/m	dB	₫B		cm	deg
1 @ 2 @ 3 @ 4 @	2258.00 2258.00 2384.00 2384.00	48.35 44.00 55.15	-5.65 -10.00	54.00 54.00	58.05 49.26 44.93 56.08	30.59 30.59 30.50 30.50		3.85 4.01 4.01	Peak Average Average Peak	100 100	49 64
5 @ 6 @ 7 @ 8 @	2462.00 2462.00 2483.50 2483.50	106.15 53.80	-0.20 -13.73	54.00 74.00	104.30 107.11 54.76 61.23	30.43 30.43 30.41 30.41	35.49 35.49 35.51 35.51	4.10 4.13	Average Peak Average Peak	100	64 64

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Remark: #5 and #6 Fundamental Signal.

· Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

		Freq	Level	Over Limit	Limit Line			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	-	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\overline{-dBuV}$	$-\overline{dB}/\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1 @ 2 @		2378.00 2378.00			74.00 54.00	55.33 43.51	30.50 30.50		4.01	Peak Average	103	29
3 @ 4 @ 5 @		2462.00 2462.00 2483.50	104.46 101.04 60.08	-13.92	74.00	105.42 102.00 61.04	30.43 30.43 30.41	35.49 35.49 35.51	4.10	Peak Average Peak	103	29
6 @		2483.50	53.85	-0.15	54.00	54.81	30.41	35.51		Average	103	29

Remark: #3 and #4 Fundamental Signal

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Test Mode : Mode 6Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit	Limit Line			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\overline{-d}\overline{B}\overline{u}\overline{V}$	dB7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	\overline{dB}		cm	deg
1.1	2390.00	72.08	-1.92	74.00	73.01	30.48	35.46	4.04	Peak		
2 !	2390.00	53.94	-0.06	54.00	54.87	30.48	35.46	4.04	Average	100	51
3 X	2414.00	105.61			106.56	30.47	35.46	4.04	Peak		·
4 X	2414.00	96.57			97.52	30.47	35.46	4.04	Average	100	51
5	2494.00	54.90	-19.11	74.00	55.86	30.40	35.53	4.17	Peak		
б	2494.00	43.39	-10.61	54.00	44.35	30.40	35.53	4.17	Average	100	51

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Remark: #3 and #4 Fundamental Signal

	Freq	Level		Limit Line						Ant Pos	Table Pos
	<u>M</u> Hz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBu∇	$-\overline{dB/m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1 2	3214.00 3214.00			74.00 54.00					Peak Average	100	32

Polarization: Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Fre	I Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MH	z dBu∀/m	dB	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	_dB7m	\overline{dB}	−−−−dB		cm	deg
1 !	2390.0		-0.43	54.00		30.48	35.46		Average	100	351
2 3 X	2390.0 2408.0	73.10	-0.90	74.00	74.03	30.48	35.46 35.46	100 000	Peak Peak		
4 @ 5	2408.00 2494.00		-18.43	74 00	97.28	30.47	35.46		Average	100	351
5 6	2494.00 2494.00		-18.43	74.00 54.00	700.00.7070	70.70.70.70.70	35.53 35.53		Peak Average	100	351

Remark: #3 and #4 Fundamental Signal

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	$-\overline{dB/m}$	$\frac{\overline{d}\overline{B}}{}$	<u>dB</u>		cm	deg
1 2	3214.00 3214.00						35.56 35.56		Peak Average	100	 59

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Test Mode : Mode 7 Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBu∇	$-\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	\overline{dB}		cm	deg
1 @ 2 3	249.78	33.69	-12.31	46.00	50.73	11.73	31.58 30.92 31.02	2.16	Peak	400 400 400	0 0 0

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	Freq	Level					Preamp Factor		Remark	Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}/\overline{m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{dBuV/m}}$	dBuV	$-\overline{dB/m}$	\overline{dB}	<u>dB</u>		cm	deg
1 2 3 @	918.80	34.11	-11.89	46.00 46.00 46.00	38.57		30.15	5.20	Peak Peak Peak	100 100 100	0 0 0

	Freq	Level	Over Limit	Limit Line		Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
3	MHz	$\overline{\mathtt{d} B} \overline{\mathtt{u} \overline{\mathtt{V}} / \mathtt{m}}$	$\overline{d}\overline{B}$	$\overline{\tt d}\overline{\tt B}\overline{\tt u}\overline{\tt V}7\overline{\tt m}$	\overline{dBuV}	—dB7m	\overline{dB}	dB		cm	deg
1 2 3 @ 4 @ 5	2384.00 2384.00 2437.00 2437.00 2484.00 2484.00	107.49 95.70 57.12	-11.24 -16.88	74.00 54.00 74.00 54.00	56.50 43.69 108.43 96.65 58.08 44.23	30.50 30.50 30.46 30.46 30.41 30.41	35.44 35.47 35.47 35.47 35.51	4.01 4.07 4.07 4.13	Peak Average Peak Average Peak Average	100 102 100 102 100 102	0 33 0 33 0 33

Remark: #3 and #4 Fundamental Signal

	Freq	Level				Antenna Factor			Remark	Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	<u>dB</u>	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	dBuV	<u>dB</u> /m	$\overline{-}\overline{d}\overline{B}$	<u>dB</u>		cm	deg
1 2	3248.00 3248.00								Peak Average	200 100	0 23

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	<u>dB</u>	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	—dBu∇	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>			deg
1 @	31.62	39.76	-0.24	40.00	52.48	18.07	31.55	0.76	QP	100	360
2 @ 3 @	34.59 60.78	37.63 34.71		40.00 40.00				0.80 1.08	QP Peak	100 400	360 360 0

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	Freq	Level		Limit Line					Remark	Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	\overline{dBuV}	$-\overline{dB}/m$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		cm	deg
1 2 3	565.30	35.76	-10.24	46.00 46.00 46.00	43.91	18.46	30.68	4.08	Peak	100 100 100	0 0 0

	Freq	Level	Over Limit			Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	M H z	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	\overline{dB}	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	\overline{dBuV}	$\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1 2 @ 3 @	2390.00 2390.00 2437.00	46.59		74.00 54.00	59.41 47.52 111.78	30.48 30.48 30.44	35.46 35.46 35.47	4.04	Peak Average Peak	100 100 100	0 54 0
4 @ 5 6 @	2437.00 2484.00 2484.00	55.76	-18.24 -9.03	74.00 54.00	103.10 56.72 45.93	30.44 30.41 30.41	35.47 35.51 35.51	4.13	Average Peak Average	100 100 100	54 0 54

Remark: #3 and #4 Fundamental Signal

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} / \mathtt{m}}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	$-\overline{dB7m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>	V - V - V - V - V - V - V - V - V - V -	cm	deg
1 2	3248.00 3248.00								Peak Average	200 100	0 45

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Test Mode : Mode 8 Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	11 AND 11 TO 12 AND 12	20	Level				Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
		MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\tt d} \overline{\tt B} \overline{\tt u} \overline{\tt V} 7 \overline{\tt m}$	\overline{dBuV}	$-\overline{dB7m}$	$\overline{d}\overline{B}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	Cm	deg	
1 2 3		118.83	18.47	-25.03	40.00 43.50 46.00	35.74	12.72	1.57	31.44 31.55 31.10	400 400 400	0	Peak Peak Peak

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Remark: #3 and #4 Fundamental Signal.

	Freq	Level				Antenna Factor			Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	—dBu∇	$\overline{dB/m}$	$\overline{d}\overline{B}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	cm	deg	
1 2 ! 3	644.40 749.40 875.40	36.98 40.64 31.79	-5.36		44.90 46.18 37.19	20.46	4.21 4.70 4.74	30.71	100 100 100	0	Peak Peak Peak

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit			Antenna Factor		Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}/\overline{\mathtt{m}}$	<u>dB</u>	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} /m}$	dBu∀	$\overline{dB/m}$	<u>dB</u>	$\overline{d}\overline{B}$	Cm	deg	
1 @	53.49	36.63	-3.37	40.00	58.16	8.88	1.03	31.45	100	360	QP
2	114.24	34.89	-8.61	43.50	52.39	12.15	1.58	31.22	400	0	Peak
3	167.43	31.68	-11.82	43.50	51.33	9.82	1.94	31.40	400	0	Peak

Remark: #3 and #4 Fundamental Signal.

37.00% (1 70.00	Freq	Level		Limit Line						Table Pos	Remark
	MHz	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	\overline{dBuV}	$\overline{dB/m}$	\overline{dB}	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$		deg	
1 2 3 @	644.40	36.98	-9.02	46.00 46.00 46.00	44.90	18.42	4.21	30.56	100 100 100	0	Peak Peak Peak

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Test Mode : Mode 8Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

		Free	[Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
		MH	dBuV/m	dB	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	<u>dB7m</u>	${dB}$	<u>dB</u>		cm	deg
1	@	2390.00	53.50	-20.50	74.00	54.44	30.48	35.46	4.04	Peak		
2	@ @	2390.00	45.19	-8.81	54.00	46.12	30.48	35.46	4.04	Average	100	17
3	@	2462.00	104.05			105.00	30.43	35.51	4.13	Peak		
4	@	2462.00	94.87			95.83	30.43	35.49	4.10	Average	100	17
5	@ @	2483.50	53.11	-0.89	54.00	54.07	30.41	35.51	4.13	Average	100	17
б	@	2483.50	69.05	-4.95	74.00	70.01	30.41	35.51	4.13	Peak		

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Remark: #3 and #4 Fundamental Signal.

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} 7m}$	dBu∇	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1 @ 2 @	3284.00 3284.00								Peak Peak	200 100	0 26

· Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

		Freq	Level	Over Limit	Limit Line			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	=	МНг	$\overline{d}\overline{B}\overline{u}\overline{V}\overline{/m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	\overline{dBuV}	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	<u>dB</u>		cm	deg
1 @		2390.00 2390.00		-19.09 -6.39	74.00 54.00	55.85 48.54 108.93	30.48	35.46	4.04	Peak Average	100	240
3 @ 4 @		2462.00 2462.00	97.64			98.60	30.43	35.49 35.49		Peak Average	100	240
5 @ 6 @		2483.50 2483.50	53.67 72.27	-0.33 -1.73	54.00 74.00	54.63 73.23	30.41	35.51 35.51		Average Peak	100	240 240

Remark: #3 and #4 Fundamental Signal.

	Freq	Level					Preamp Factor			Ant Pos	Table Pos
	MHz	$\overline{\mathtt{d} \mathtt{B} \mathtt{u} \mathtt{V} /m}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	dBuV	−−dB/m	$\overline{d}\overline{B}$	<u>dB</u>		cm	deg
1 @ 2 @	3284.00 3284.00								Peak Average	200 100	0 56

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Test Mode : Mode 9Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

	Fre	q Level	Over Limit	70 (7) (10) (10) (10)			Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	M}	z dBuV/m	dB	$\overline{d}\overline{B}\overline{u}\overline{V}7\overline{m}$	\overline{dBuV}	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{d}\overline{B}$		cm	deg
1	1658.0	0 49.07	-24.93	74.00	53.42	27.93	35.53	3.25	Peak		
2 !	2390.0	0 53.70	-0.30	54.00	54.63	30.48	35.46	4.04	Average	100	27
3 1	2390.0	0 73.22	-0.78	74.00	74.15	30.48	35.46	4.04	Peak		
4 X	2412.0	0 107.67			108.62	30.47	35.46	4.04	Peak		-1-
5 @ 6	2412.0	0 97.50			98.45	30.47	35.46	4.04	Average	100	27
б	2483.5	0 50.46	-23.54	74.00	51.42	30.41	35.51	4.13	Peak		
7	2483.5		-12.48	54.00	42.48	30.41	35.51	4.13	Average	100	27
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Remark: #4 and #5 Fundamental Signal.

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

	Freq	Level	Over Limit				Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	MHz	dBuV7m	dB	$\overline{dBuV/m}$	dBuV	dB/m	\overline{dB}	₫B		cm	deg
1 2 3 X	2390.00 2390.00		-2.99 -2.78	74.00 54.00		~ ~	35.46	4.04	Peak Average	100	356
3 X 4 X	2412.00 2412.00	94.83			104.97 95.78		35.46 35.46	4.04	Peak Average	100	356
5 6	2498.00 2498.00		-25.58 -14.51	74.00 54.00	49.38 40.45		35.53 35.53	4.17 4.17	Peak Average	100	356

Remark: #3 and #4 Fundamental Signal.

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Test Mode : Mode 9Polarization : Horizontal

■ The test that passed at minimum margin was marked by the frame in the following table.

		Freq	Level	Over Limit			Antenna Factor	Preamp Factor	Cable Loss	Remark	Ant Pos	Table Pos
	202	MHz	$\overline{\mathtt{dBuV/m}}$	$\overline{d}\overline{B}$	$\overline{\tt d}\overline{\tt B}\overline{\tt u}\overline{\tt V}7\overline{\tt m}$	$-\overline{dBuV}$	<u>dB7m</u>	\overline{dB}	dB		cm	deg
1 @ 2 @ 3 @ 4 @ 5		2388.00 2388.00 2462.00 2462.00	99.74		74.00	45.93 57.04 108.87 100.70	30.48 30.43 30.43	35.44 35.44 35.49 35.49	4.01 4.10 4.10	Average Peak Peak Average	122 122	65 65
5 Q		2483.50 2483.50	70.47 53.94	-3.53 -0.06	74.00 54.00	71.44 54.90	30.41 30.41	35.51 35.51		Peak Average	122	65

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Remark: #3 and #4 Fundamental Signal.

Polarization : Vertical

■ The test that passed at minimum margin was marked by the frame in the following table.

		Freq	Level	Over Limit				Preamp Factor		Remark	Ant Pos	Table Pos
	-	МНг	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	$\overline{\mathtt{d}}\overline{\mathtt{B}}\overline{\mathtt{u}}\overline{\mathtt{V}}7\overline{\mathtt{m}}$	$\overline{}\overline{d}\overline{B}\overline{u}\overline{V}$	<u>dB</u> 7m	$\phantom{aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa$	−−−−dB		cm	deg
2	@ @	2384.00 2384.00	55.19 43.36	-18.81 -10.64	74.00 54.00	56.12 44.29	30.50		4.01	Peak Average	101	27
4	@	2462.00	105.59 97.76	2.05	R4 00	106.55 98.72	30.43		4.10	Peak Average	101	27
	@	2483.50 2483.50	70.04 53.74	-3.96 -0.26		71.00 54.70	30.41	35.51 35.51		Peak Average	101	27

Remark: #3 and #4 Fundamental Signal.

Remark: The spurious emission except listed above is too low to be taken.

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5.8 Antenna Requirements

5.8.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no other antenna except assembled by the responsible party shall be used with the device.

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And according to FCC 47 CFR Section 15.247 (b), if directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

5.8.2 Antenna Connected Construction

The antennas used in this product are fixed dipole and PCB antenna without connector and it is considered to meet antenna requirement of FCC.

5.8.3 Antenna Gain

The antenna gain of EUT is less than 6dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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6. List of Measuring Equipments Used

	<u> </u>	<u>.p</u>					
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
EMC Receiver	R&S	ESCS 30	100132	9kHz – 2.75GHz	Jun. 23, 2004	Jun. 23, 2005	Conduction (CO01-HY)
LISN	MessTec	NNB-2/16Z	2001/009	9kHz – 30MHz	Apr. 26, 2005	Apr. 26, 2006	Conduction (CO01-HY)
LISN (Support Unit)	MessTec	NNB-2/16Z	99081	9kHz – 30MHz	Dec. 17, 2004	Dec. 17, 2005	Conduction (CO01-HY)
EMI Filter	LINDGREN	LRE-2060	1004	< 450Hz	N/A	N/A	Conduction (CO01-HY)
EMI Filter	LINDGREN	N6006	201052	0 – 60Hz	N/A	N/A	Conduction (CO01-HY)
RF Cable-CON	Suhner Switzerland	RG223/U	CB029	9kHz – 30MHz	Dec. 23, 2004	Dec. 23, 2005	Conduction (CO01-HY)
Spectrum analyzer	Agilent	E4408B	MY44211030	9KHz-26.5GHz	Jul. 27, 2004	Jul. 26, 2005	Radiation (03CH06-HY)
Receiver	R&S	ESCS30	100356	9KHz-2.75GHz	Jul,09,2004	Jul, 10,2005	Radiation (03CH06-HY)
Controller	СТ	SC100	N/A	N/A	N/A	N/A	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz -2GHz	Nov. 22, 2004	Nov. 21, 2005	Radiation (03CH06-HY)
Horn Antenna	Com-Power	AH118	071025	1G-18G	Feb. 22, 2005	Feb. 22, 2006	Radiation (03CH06-HY)
SHF-EHF Horn	SCHWARZBECK	BBHA 9170	9170-249	14G - 40G	Jun. 22, 2004	Jun. 22, 2005	Radiation (03CH06-HY)
HF Amplifier	MITEQ	AFS44	973248	0.1G - 26.5G	May 20, 2004	May 20, 2005	Radiation (03CH06-HY)
Amplifier	MITEQ	AMF-6F	997165	26G - 40G	Jun. 24, 2004	Jun. 24, 2005	Radiation (03CH06-HY)
Turn Table	HD	DS 420	420/650/00	0 ~ 360 degree	N/A	N/A	Radiation (03CH06-HY)
Antenna Mast	HD	MA 240	240/560/00	1 m - 4 m	N/A	N/A	Radiation (03CH06-HY)
Base Station Emulator	Agilent	E5515C	GB43460754	Qual-band	Jan. 12, 2004	Jan. 12, 2006	Base Station

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7. Uncertainty Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Contribution	Uncerta	ainty of x_i	$u(x_i)$
	dB	Probability Distribution	$u(x_i)$
Receiver reading	0.10	Normal(k=2)	0.05
Cable loss	0.10	Normal(k=2)	0.05
AMN insertion loss	2.50	Rectangular	0.63
Receiver Spec	1.50	Rectangular	0.43
Site imperfection	1.39	Rectangular	0.80
Mismatch	+0.34/-0.35	U-shape	0.24
combined standard uncertainty Uc(y)		1.13	
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)		2.26	

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Uncertainty of Radiated Emission Measurement (30MHz ~ 1000MHz)

Contribution	Uncertainty of x_i			
	dB	Probability	$u(x_i)$	
	uв	Distribution		
Receiver reading	0.41	Normal(k=2)	0.21	
Antenna factor calibration	0.83	Normal(k=2)	0.42	
Cable loss calibration	0.25	Normal(k=2)	0.13	
Pre Amplifier Gain calibration	0.27	Normal(k=2)	0.14	
RCV/SPA specification	2.50	Rectangular	0.72	
Antenna Factor Interpolation for Frequency	1.00	Rectangular	0.29	
Site imperfection	1.43	Rectangular	0.83	
Mismatch	+0.39/-0.41	U-shaped	0.28	
combined standard uncertainty Uc(y)	1.27			
Measuring uncertainty for a level of confidence of 95% U=2Uc(y)	2.54			

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Uncertainty of Radiated Emission Measurement (1GHz ~ 40GHz)

Contribution	Uncertainty of x_i		()	Ci	$Ci*u(x_i)$
	dB Probability Distribution	$u(x_i)$	C <i>i</i>		
		Distribution			
Receiver reading	±0.10	Normal(k=1)	0.10	1	0.10
Antenna factor calibration	±1.70	Normal(k=2)	0.85	1	0.85
Cable loss calibration	±0.50	Normal(k=2)	0.25	1	0.25
Receiver Correction	±2.00	Rectangular	1.15	1	1.15
Antenna Factor Directional	±1.50	Rectangular	0.87	1	0.87
Site imperfection	±2.80	Triangular	1.14	1	1.14
Mismatch					
Receiver VSWR Γ1= 0.197	+0.34/-0.35	U-shaped	0.244	1	0.244
Antenna VSWR Γ2= 0.194					
Uncertainty=20log(1-Γ1*Γ2*Γ3)					
Combined standard uncertainty Uc(y)	2.36				
Measuring uncertainty for a level of	170				
confidence of 95% U=2Ue(y)	4.72				

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