

EMC

TEST REPORT

Report No. : EME-050452**Model No. : 36070, 36071****Issued Date : June 21, 2005**

Applicant : SENTON Enterprises Limited
Flat 10, 17/F., Fotan Ind. Centre, 26-28 Au Pui Wan St.,
Fo Tan, Shatin, N. T. Hong Kong

Test By : Intertek Testing Services Taiwan Ltd.
No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,
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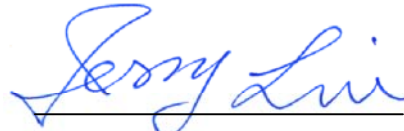
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Project Engineer



Kevin Chen

Reviewed By



Jerry Liu

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Summary of Tests**2.4GHz Cordless phone -Model: 36070
FCC ID: PEG36070**

Test	Reference	Results
Power Line Conducted Emission test	15.207	Complies
Radiated Emission test	15.249(c), 15.209	Complies

1. General information

1.1 Identification of the EUT

Applicant	: SENTON Enterprises Limited
Product	: 2.4GHz Cordless phone
Model No.	: 36070
FCC ID.	: PEG36070
Frequency Range (Base)	: 2400.3MHz ~ 2409.0MHz
Frequency Range (Handset)	: 2470.2MHz ~ 2448.9MHz
Channel Number	: 30 channels
Frequency of Each Channel (Base)	: 2470.2MHz + 0.3k MHz k=0~29
Frequency of Each Channel (Handset)	: 2400.3MHz + 0.3k MHz k=0~29
Type of Modulation	: FM
Power Supply (Base)	: 120Vac, 60Hz with adapter (U090020D)
Power Supply (Handset)	: 3.6Vdc Battery
Power Cord	: N/A
Sample Received	: May 3, 2005
Test Date(s)	: June 21, 2005

A DoC report has been generated for the client.

1.2 Additional information about the EUT

The EUT is a 2.4GHz Cordless phone, it consists of handset unit and base unit.

The models listed below are identical to model 36070 (EUT).

Different brand serves as marking strategy.

Trade Name	Model Number
SENTON	36070
Bell Phone	36070
Bell Phone	36071

For more detail features, please refer to User's manual as file name "Installation guide.pdf"

1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi max

Antenna Type : Soldering antenna

Connector Type : Lead Wire

1.4 Peripherals equipment

Dummy Load: 600Ω

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

In the conducted emission test, the EUT was operated in charging mode.
During the other tests, the EUT was operated in continuously transmitting status.

2.4 Test equipment

Equipment	Brand	Frequency range	Model No.	Intertek ID No.	Next Cal. Date
EMI Test Receiver	Rohde & Schwarz	9kHz~2.75GHz	ESCS 30	EC303	04/17/2006
EMI Test Receiver	Rohde & Schwarz	20Hz~26.5GHz	ESMI	EC317	07/14/2005
Spectrum Analyzer	Rohde & Schwarz	9kHz~30GHz	FSP 30	EC353	07/13/2005
Spectrum Analyzer	Rohde & Schwarz	20Hz~40GHz	FSEK 30	EC365	10/18/2005
Horn Antenna	EMCO	1GHz~18GHz	3115	EC338	08/16/2007
Horn Antenna	SCHWARZBECK	14GHz~40GHz	BBHA 9170	EC351	07/08/2007
Bilog Antenna	SCHWARZBECK	25MHz~1.7GHz	VULB 9160	EC368	02/20/2006
Pre-Amplifier	MITEQ	100MHz~26.5GHz	919981	EC373	12/30/2005
Pre-Amplifier	MITEQ	26GHz~40GHz	828825	EC374	1/27/2006
Controller	HDGmbH	N/A	HD 100	EP317-1	N/A
Antenna Tower	HDGmbH	N/A	MA 240	EP317-2	N/A
Turn Table	HDGmbH	N/A	DS 420S	EP317-3	N/A
LISN	Rohde & Schwarz	9KHz~30MHz	ESH3-Z5	EC344	01/13/2006

Note: The above equipments are within the valid calibration period.

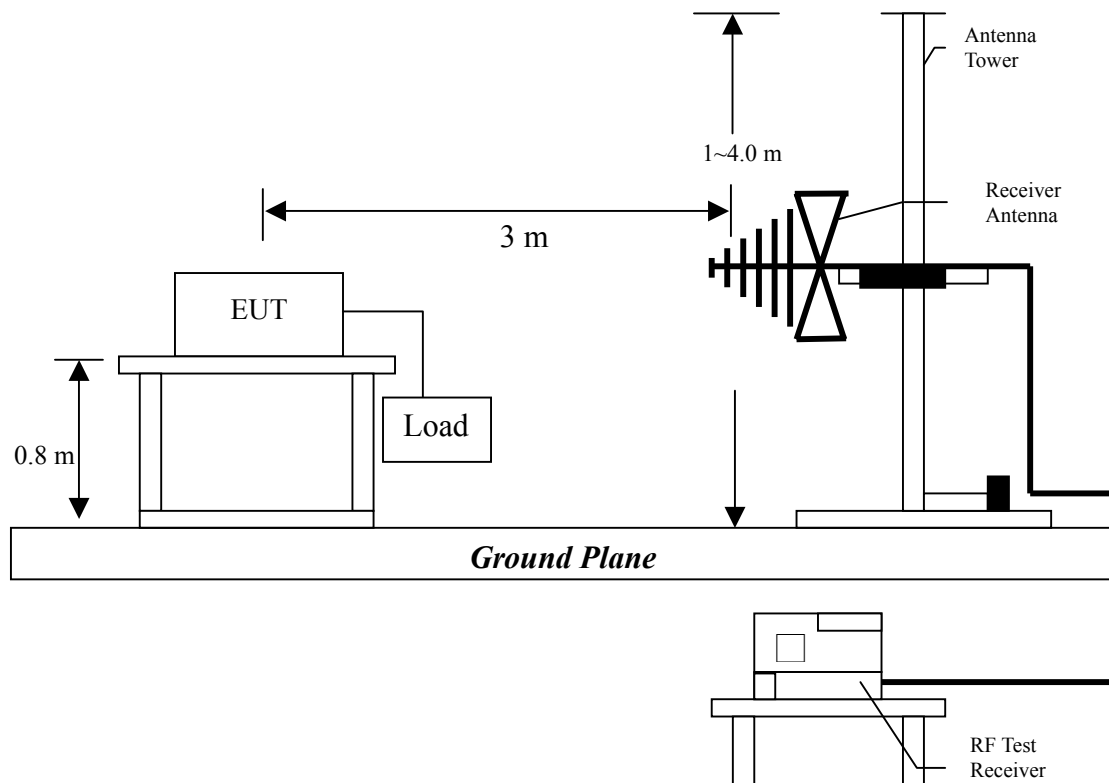
3. Radiated emission test FCC 15.249 (C)

3.1 Operating environment

Temperature: 23 °C
Relative Humidity: 56 %
Atmospheric Pressure: 1023 hPa

3.2 Test setup & procedure

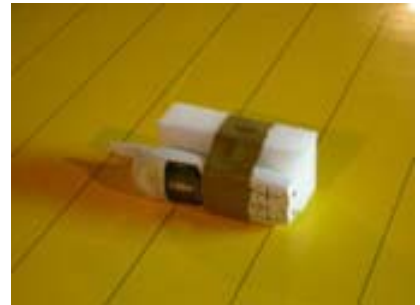
The Diagram below shows the test setup, which is utilized to make these measurements.



The signal is maximized through rotation and placement in the three orthogonal axes. Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report. The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance.

This test was verified at three orthogonal axes, and the test configuration was listed below:

**Setup 1****Setup 2****Setup 3**

After verifying three axes, the worst case was occurred at setup 1 configuration. The final test was executed under this configuration and recorded in this report.

The EUT configuration please refer to the “Spurious set-up photo.pdf”.

3.3 Emission limit

3.3.1 Fundamental and harmonics emission limits

Frequency (MHz)	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m@3m)	(dBuV/m@3m)	(uV/m@3m)	(dBuV/m@3m)
2400-2483.5	50	94	500	54

3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

Frequency MHz	15.209 Limits (dB μ V/m@3m)
30-88	40
88-216	43.5
216-960	46
Above 960	54

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of radiated emission measurement is ± 4.98 dB.

3.4 Radiated spurious emission test data

3.4.1 Measurement results: frequencies equal to or less than 1 GHz

EUT : 36070
Test Unit : Base
Test Condition : Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
57.160	QP	V	12.90	5.91	18.81	40.00	-21.20	100.00	60.00
158.040	QP	V	15.83	3.15	18.98	43.50	-24.52	101.00	58.00
459.710	QP	V	17.68	4.68	22.36	46.00	-23.64	100.00	154.00
650.800	QP	V	21.50	4.44	25.94	46.00	-20.06	112.00	177.00
770.110	QP	V	22.81	4.68	27.49	46.00	-18.51	132.00	241.00
874.870	QP	V	23.70	4.90	28.60	46.00	-17.40	122.00	300.00
50.370	QP	H	14.11	4.06	18.17	40.00	-21.84	104.00	41.00
154.160	QP	H	13.60	3.70	17.30	43.50	-26.20	112.00	74.00
278.320	QP	H	13.21	3.74	16.95	46.00	-29.06	123.00	214.00
500.450	QP	H	18.77	4.64	23.41	46.00	-22.59	115.00	168.00
681.840	QP	H	22.48	4.00	26.48	46.00	-19.52	125.00	57.00
816.670	QP	H	23.62	4.47	28.09	46.00	-17.91	134.00	322.00

Remark:

1. Corrected Level = Reading Level + Correction Factor

2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36070
Test Unit : Base
Test Condition : Tx at channel 30

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
50.370	QP	V	12.90	2.39	15.29	40.00	-24.72	100.00	47.00
149.310	QP	V	14.27	5.64	19.91	43.50	-23.59	102.00	174.00
278.320	QP	V	13.24	3.78	17.02	46.00	-28.99	111.00	156.00
492.690	QP	V	18.43	3.58	22.01	46.00	-24.00	112.00	44.00
653.710	QP	V	21.50	4.24	25.74	46.00	-20.26	125.00	335.00
793.390	QP	V	23.19	4.20	27.39	46.00	-18.61	115.00	89.00
43.580	QP	H	14.20	3.02	17.22	40.00	-22.78	125.00	55.00
142.520	QP	H	13.24	4.24	17.48	43.50	-26.03	141.00	69.00
300.630	QP	H	14.32	4.20	18.52	46.00	-27.49	122.00	166.00
563.500	QP	H	19.72	4.79	24.51	46.00	-21.49	133.00	158.00
646.920	QP	H	21.55	4.82	26.37	46.00	-19.64	165.00	39.00
888.450	QP	H	24.62	4.60	29.22	46.00	-16.79	146.00	64.00

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36070
Test Unit : Handset
Test Condition : Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
58.130	QP	V	12.90	3.36	16.26	40.00	-23.75	102.00	57.00
154.160	QP	V	15.83	2.97	18.80	43.50	-24.70	100.00	144.00
380.170	QP	V	16.40	4.68	21.08	46.00	-24.92	105.00	211.00
693.480	QP	V	22.33	4.67	27.00	46.00	-19.01	100.00	158.00
784.660	QP	V	23.19	4.58	27.77	46.00	-18.23	121.00	321.00
923.370	QP	V	24.32	5.33	29.65	46.00	-16.36	119.00	79.00
41.640	QP	H	14.20	3.59	17.79	40.00	-22.21	101.00	58.00
162.890	QP	H	13.84	3.76	17.60	43.50	-25.91	121.00	77.00
354.950	QP	H	15.48	4.17	19.65	46.00	-26.36	100.00	154.00
534.400	QP	H	19.65	4.82	24.47	46.00	-21.53	154.00	166.00
658.560	QP	H	21.52	5.08	26.60	46.00	-19.41	135.00	98.00
892.330	QP	H	24.62	5.19	29.81	46.00	-16.20	144.00	344.00

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36070
Test Unit : Handset
Test Condition : Tx at channel 30

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
50.370	QP	V	12.90	2.39	15.29	40.00	-24.72	100.00	47.00
149.310	QP	V	14.27	5.64	19.91	43.50	-23.59	102.00	174.00
278.320	QP	V	13.24	3.78	17.02	46.00	-28.99	111.00	156.00
492.690	QP	V	18.43	3.58	22.01	46.00	-24.00	112.00	44.00
653.710	QP	V	21.50	4.24	25.74	46.00	-20.26	125.00	335.00
793.390	QP	V	23.19	4.20	27.39	46.00	-18.61	115.00	89.00
43.580	QP	H	14.20	3.02	17.22	40.00	-22.78	125.00	55.00
142.520	QP	H	13.24	4.24	17.48	43.50	-26.03	141.00	69.00
300.630	QP	H	14.32	4.20	18.52	46.00	-27.49	122.00	166.00
563.500	QP	H	19.72	4.79	24.51	46.00	-21.49	133.00	158.00
646.920	QP	H	21.55	4.82	26.37	46.00	-19.64	165.00	39.00
888.450	QP	H	24.62	4.60	29.22	46.00	-16.79	146.00	64.00

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

3.4.2 Measurement results: frequency above 1GHz

EUT : 36070

Test Unit : Base

Test Condition : Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2400.300	PK	V	0.00	30.31	56.67	86.98	114.00	-27.02	100.00	48.00
2400.300	AV	V	0.00	30.31	56.42	86.73	94.00	-7.27	100.00	48.00
2400.300	PK	H	0.00	30.31	54.47	84.78	114.00	-29.22	102.00	56.00
2400.300	AV	H	0.00	30.31	54.35	84.66	94.00	-9.34	102.00	56.00

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

EUT : 36070
 Test Unit : Base
 Test Condition : Tx at channel 30

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2409.000	PK	V	0.00	30.31	56.67	86.98	114.00	-27.02	100.00	76.00
2409.000	AV	V	0.00	30.31	56.40	86.71	94.00	-7.29	100.00	76.00
2409.000	PK	H	0.00	30.31	55.13	85.44	114.00	-28.56	101.00	54.00
2409.000	AV	H	0.00	30.31	54.81	85.12	94.00	-8.88	101.00	54.00

Remark:

1. Corrected Level = Reading Level + Correction Factor — Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

EUT : 36070
Test Unit : Handset
Test Condition : Tx at channel 1

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2470.200	PK	V	0.00	30.31	57.77	88.08	114.00	-25.92	100.00	48.00
2470.200	AV	V	0.00	30.31	57.08	87.39	94.00	-6.61	100.00	48.00
2470.200	PK	H	0.00	30.31	57.63	87.94	114.00	-26.06	102.00	56.00
2470.200	AV	H	0.00	30.31	57.3	87.61	94.00	-6.39	102.00	56.00
4799.400	PK	V	36.07	37.77	41.47	43.17	54.00	-10.83	100.00	122.00
4940.400	PK	V	36.07	37.77	41.93	43.63	54.00	-10.37	100.00	114.00
7410.600	PK	V	36.18	43.97	41.46	49.25	54.00	-4.75	100.00	214.00
4799.400	PK	H	36.07	37.77	43.3	45	54.00	-9	100.00	45.00
4940.400	PK	H	36.07	37.77	44.78	46.48	54.00	-7.52	101.00	178.00
7410.600	PK	H	36.18	43.97	41.18	48.97	54.00	-5.03	100.00	211.00

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV

3GHz-14GHz: 27dBuV

14GHz-26.5GHz: 39dBuV

For AV:

1GHz-3GHz: 10dBuV

3GHz-14GHz: 16dBuV

14GHz-26.5GHz: 28dBuV

EUT : 36070
 Test Unit : Handset
 Test Condition : Tx at channel 30

Frequency (MHz)	Spectrum Analyzer Detector	Antenna Polariz. (H/V)	Preamp (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV)	Limit @ 3 m (dBuV)	Margin (dB)	Antenna high (cm)	Turn Table angle (degree)
2478.900	PK	V	0.00	30.31	56.99	87.3	114.00	-26.7	100.00	85.00
2478.900	AV	V	0.00	30.31	56.67	86.98	94.00	-7.02	100.00	85.00
2478.900	PK	H	0.00	30.31	55.02	85.33	114.00	-28.67	100.00	14.00
2478.900	AV	H	0.00	30.31	54.71	85.02	94.00	-8.98	100.00	14.00
4817.400	PK	V	36.07	37.77	40.94	42.64	54.00	-11.36	102.00	76.00
4957.800	PK	V	36.07	37.77	41.78	43.48	54.00	-10.52	105.00	251.00
7436.700	PK	V	36.18	43.97	41.12	48.91	54.00	-5.09	101.00	344.00
4817.400	PK	H	36.07	37.77	43.39	45.09	54.00	-8.91	112.00	65.00
4957.800	PK	H	36.07	37.77	44.53	46.23	54.00	-7.77	110.00	147.00
7436.700	PK	H	36.18	43.97	41.06	48.85	54.00	-5.15	100.00	221.00

Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

Noise floor level is:

For PK:

1GHz-3GHz: 20dBuV
 3GHz-14GHz: 27dBuV
 14GHz-26.5GHz: 39dBuV

For AV:

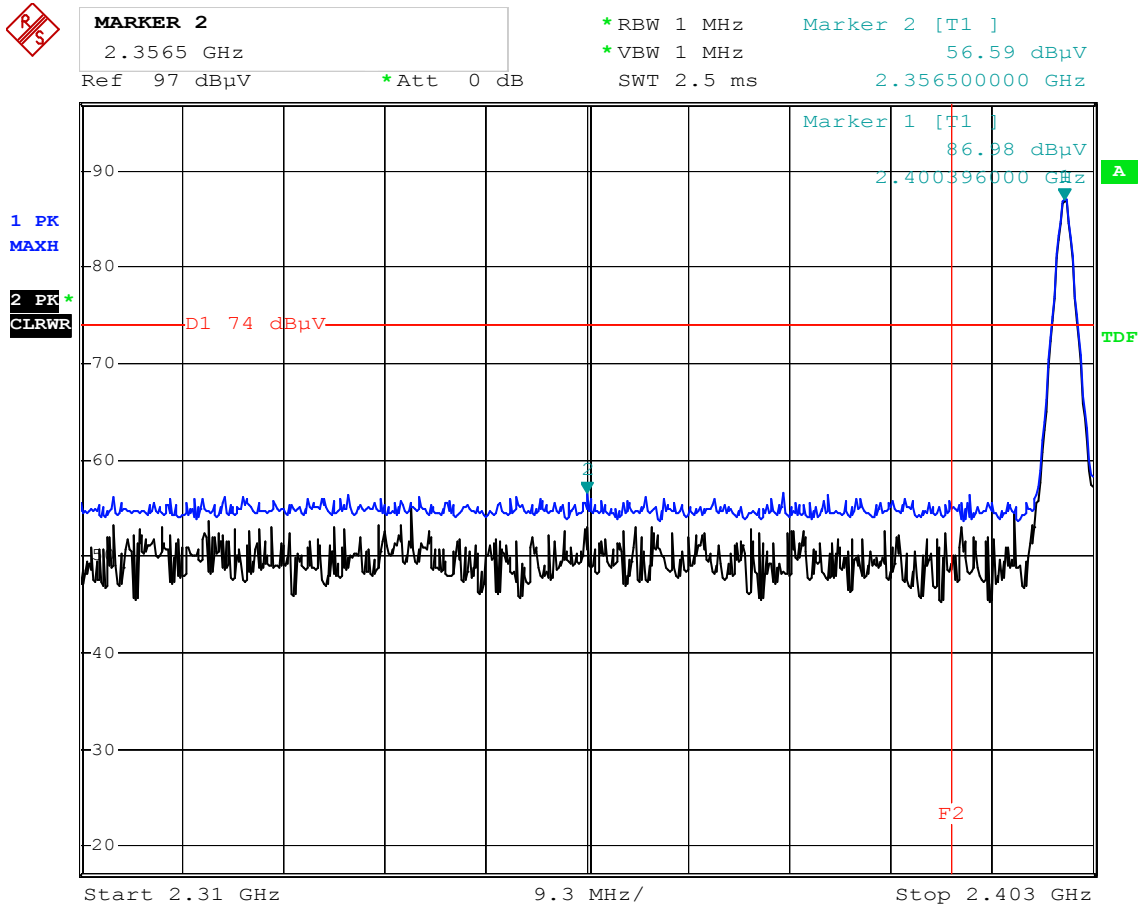
1GHz-3GHz: 10dBuV
 3GHz-14GHz: 16dBuV
 14GHz-26.5GHz: 28dBuV

4. Radiated emission on the band edge FCC 15.249(C)

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (Base: 2400.3MHz ~ 2409.0MHz, Handset: 2470.2MHz ~ 2478.9MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please see the plot below.

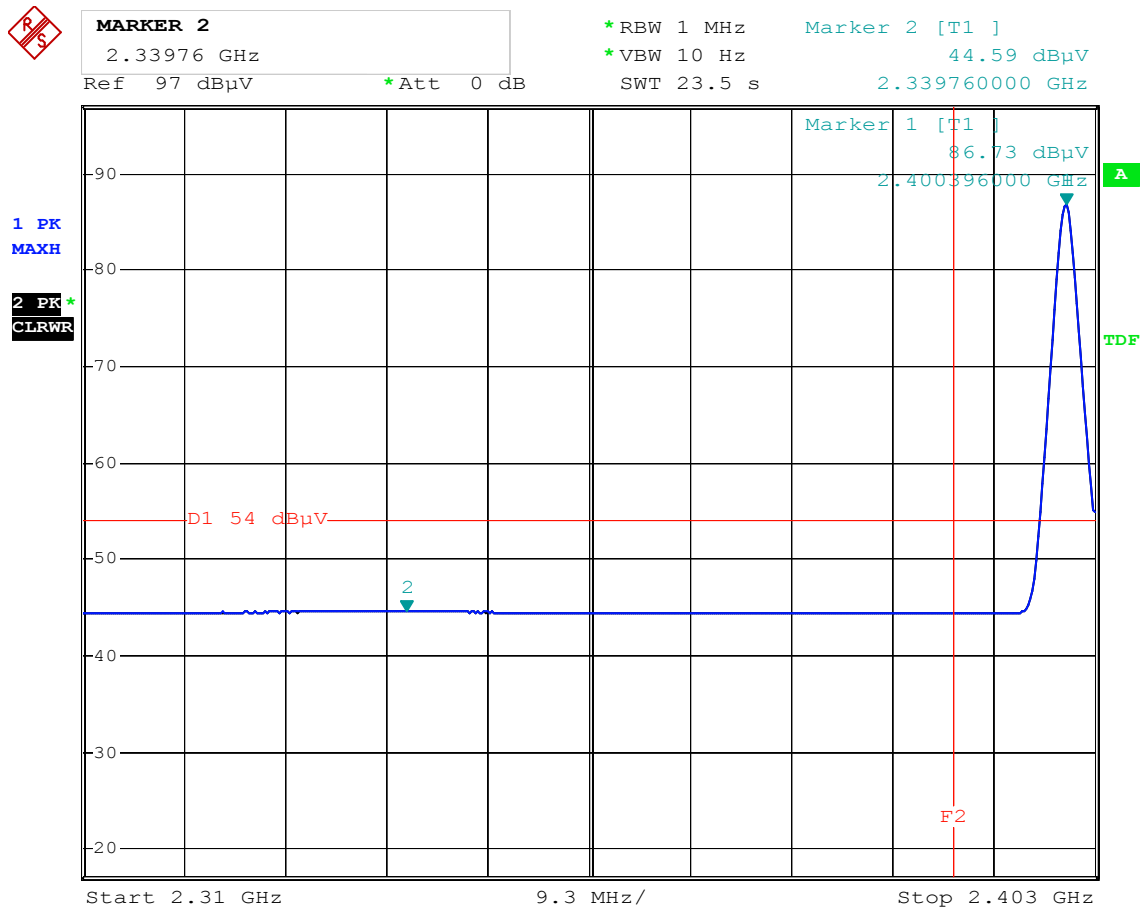
Test Mode: Base



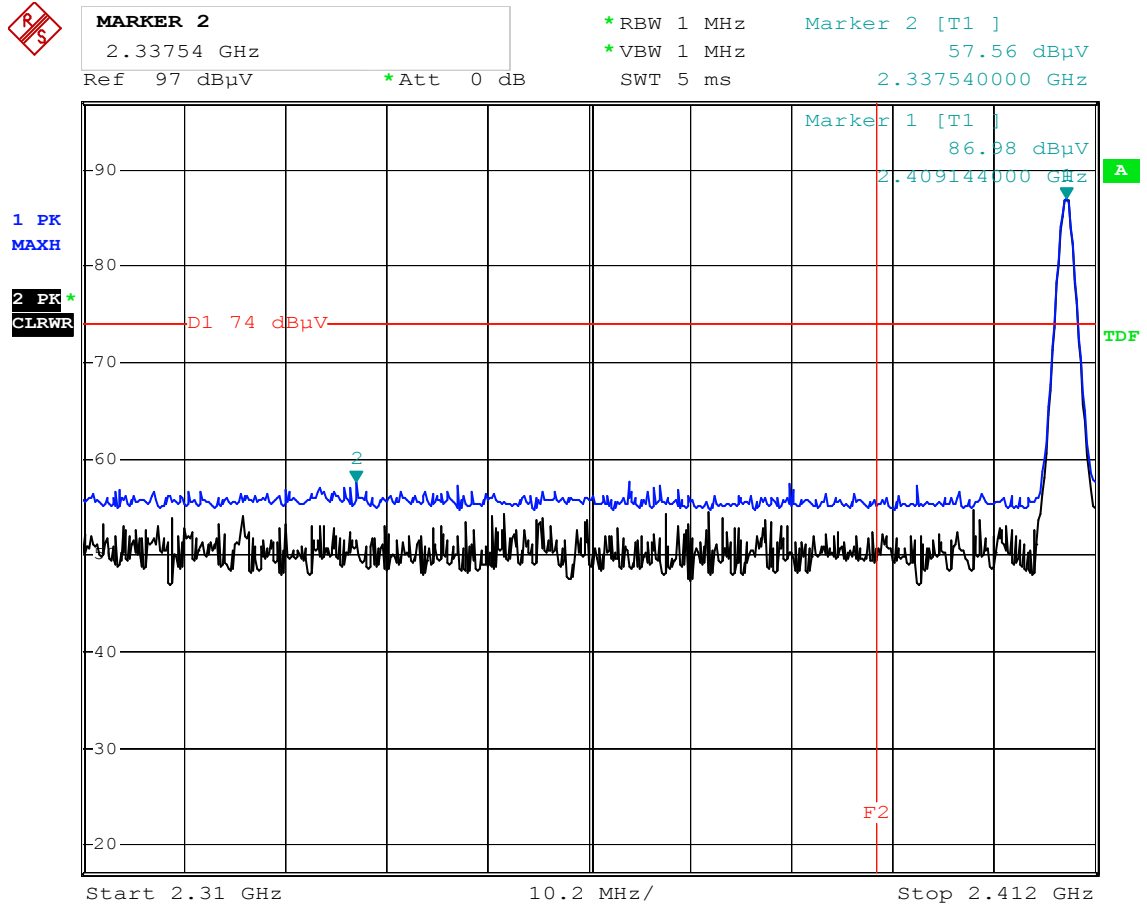
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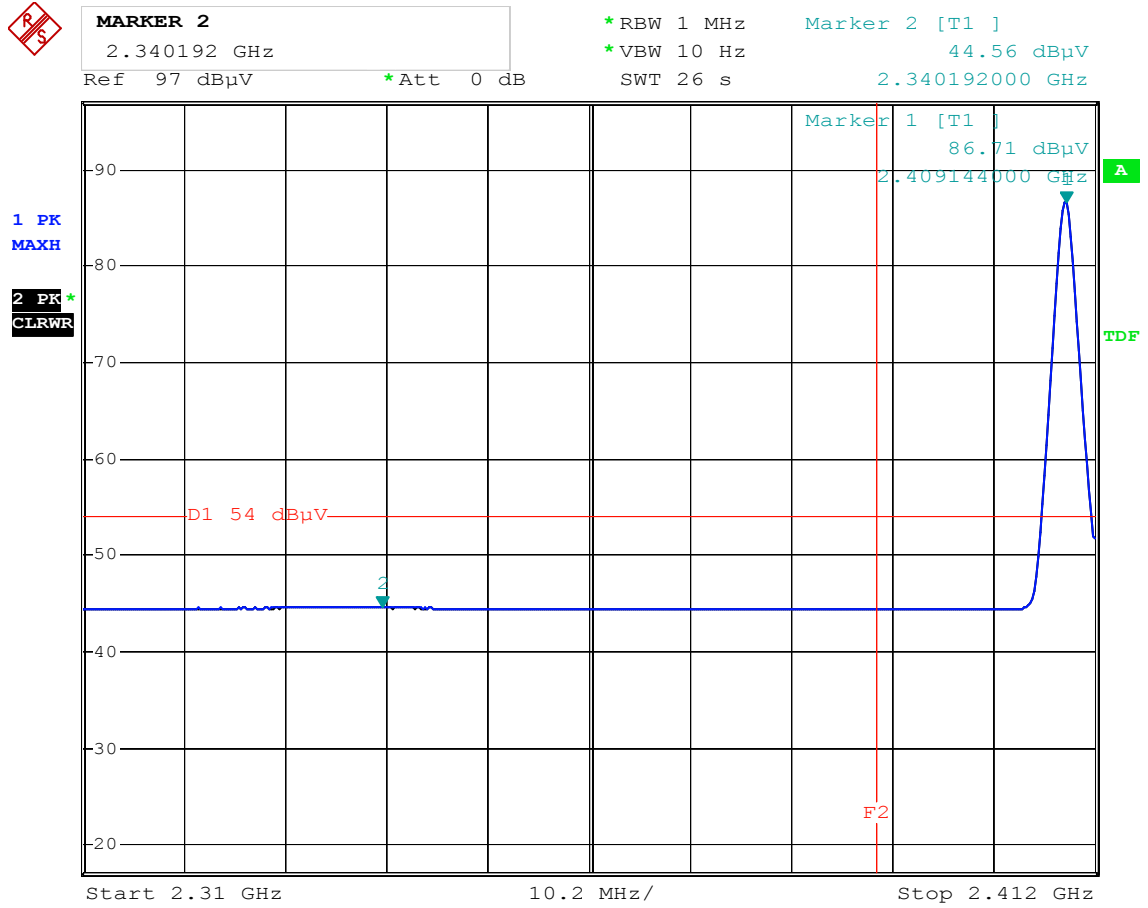
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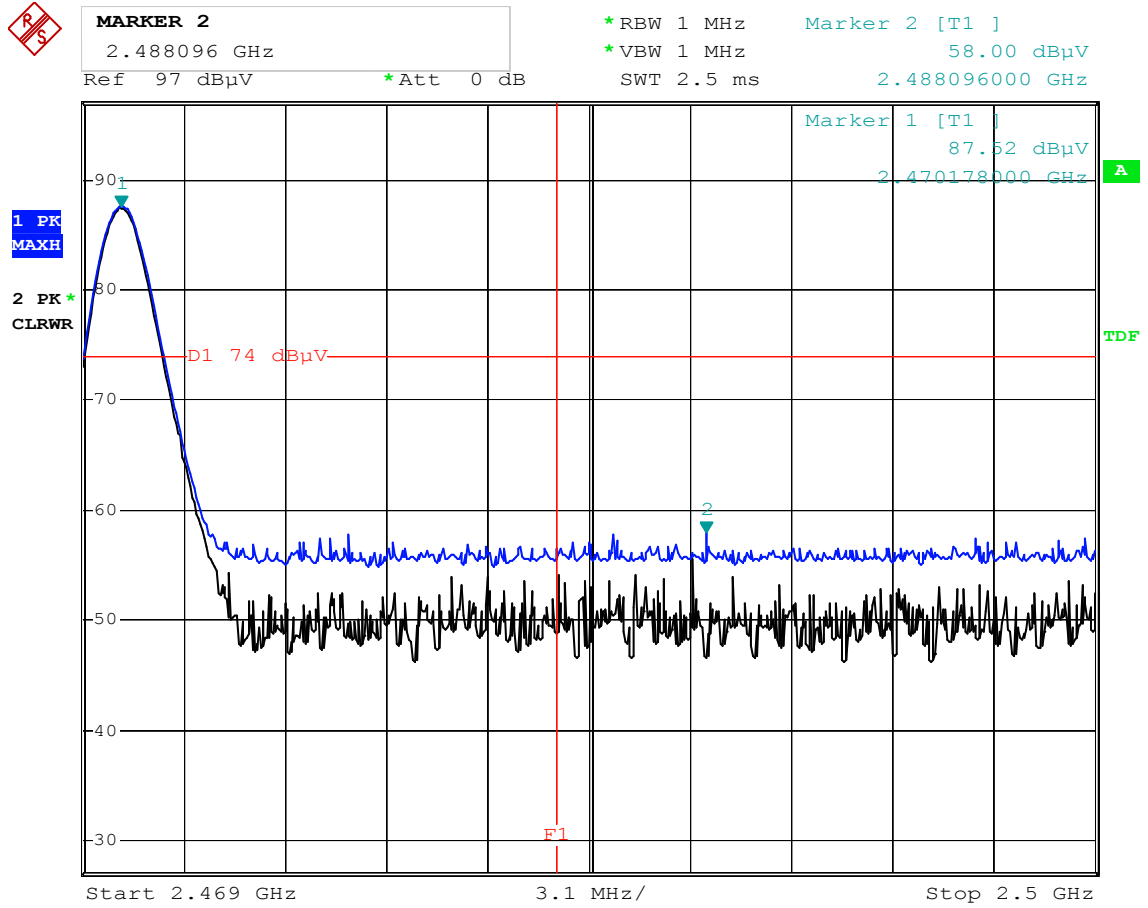


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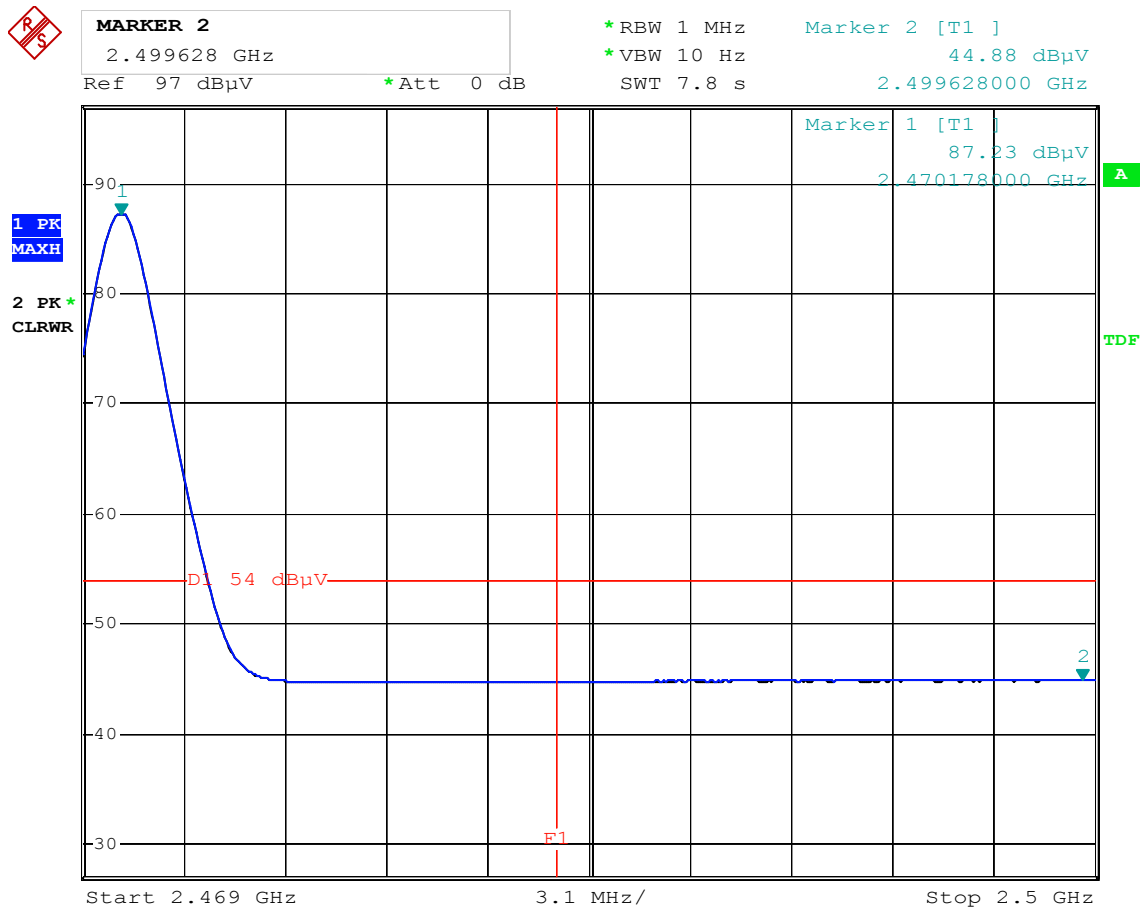


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Comment: AV F2=2390MHz EC371,353
Date: 15.JUN.2005 17:20:18

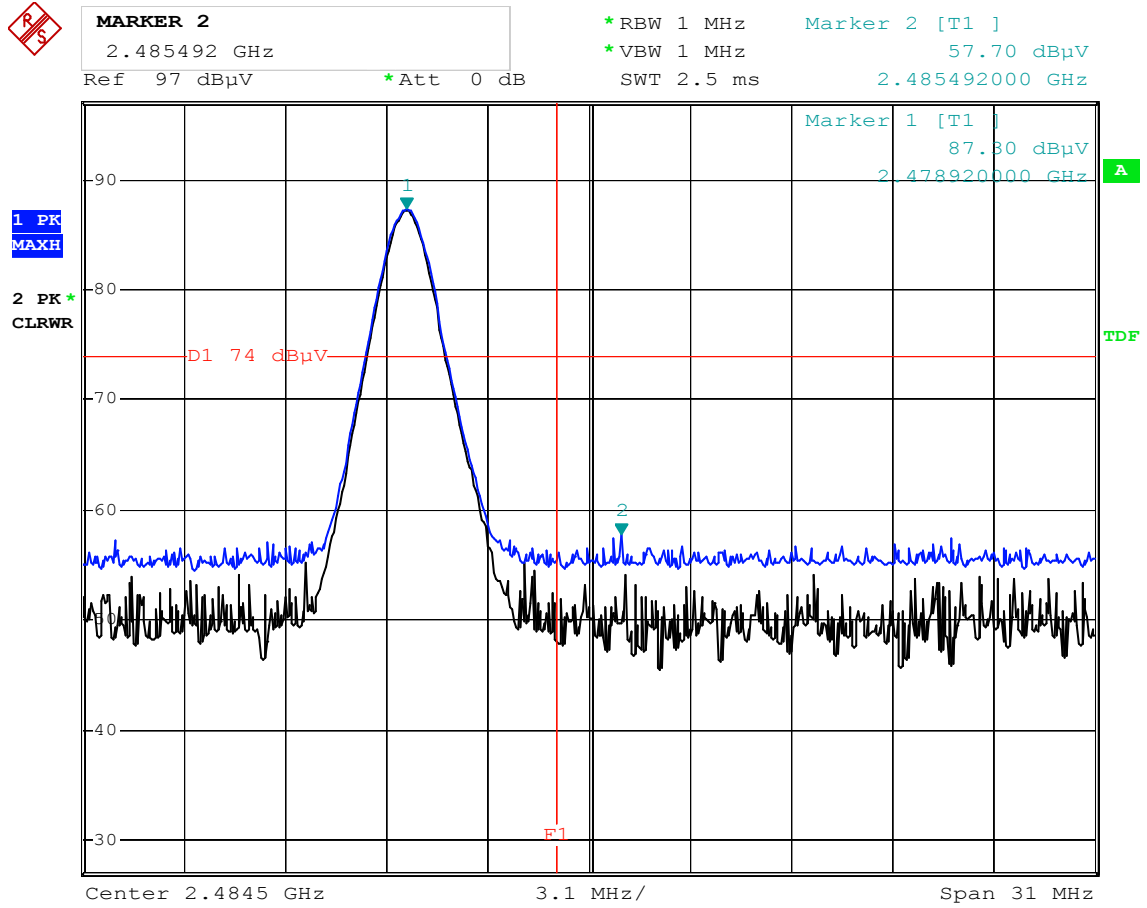
Test Mode: Handset



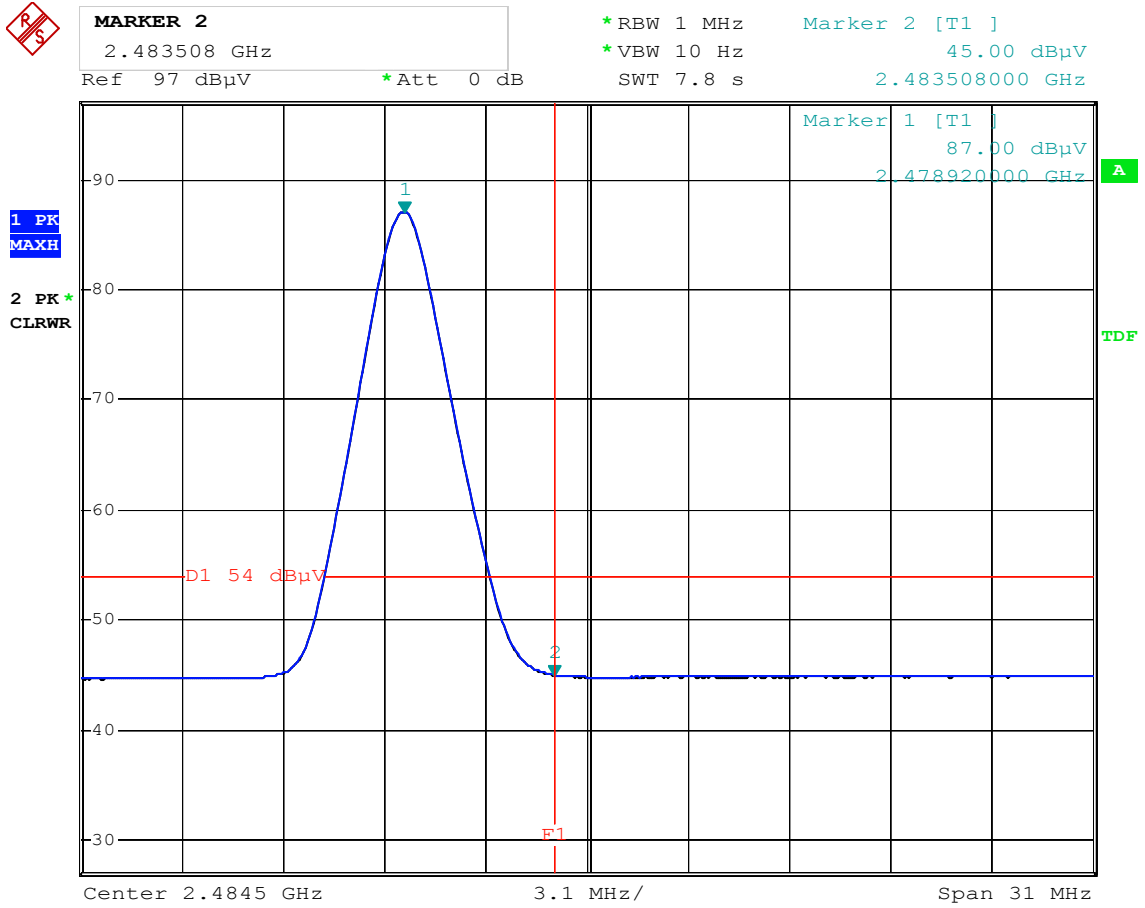
Comment: HS Band-edge at ch1
Comment: PK F1=2483.5MHz EC371, 353
Date: 15.JUN.2005 15:21:13



Comment: HS Band-edge at ch1
Comment: AV F1=2483.5MHz EC371, 353
Date: 15.JUN.2005 15:23:36



Comment: HS Band-edge at ch30
Comment: PK F1=2483.5MHz EC371, 353
Date: 15.JUN.2005 15:30:47



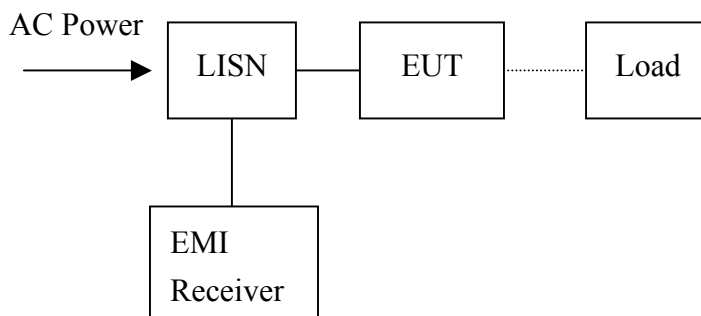
Comment: HS Band-edge at ch30
Comment: PK F1=2483.5MHz EC371, 353
Date: 15.JUN.2005 15:29:26

5. Conducted emission test FCC 15.207

5.1 Operating environment

Temperature: 23 °C
Relative Humidity: 60 %
Atmospheric Pressure: 1023 hPa

5.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the Conducted set-up photo.pdf”.

5.3 Emission limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

*Decreases with the logarithm of the frequency.

5.4 Uncertainty of Conducted Emission

Expanded uncertainty (k=2) of conducted emission measurement is ± 2.6 dB.

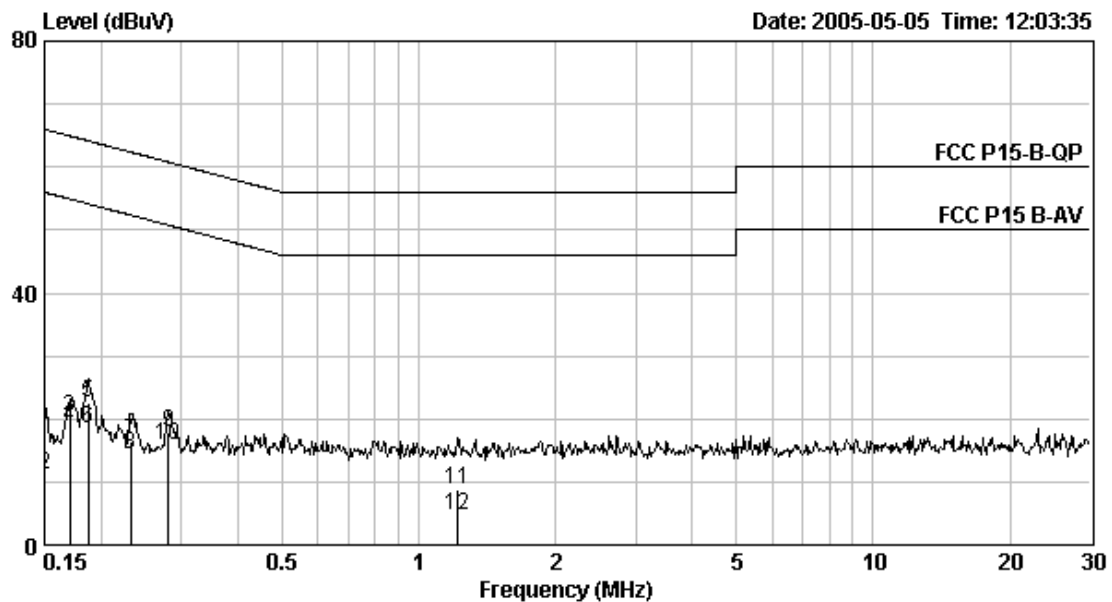
5.5 Power Line Conducted Emission test data

Phase : Line
 EUT : 36070
 Test Condition : Normal operating mode with adapter (U090020D)

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level AV (dBuV)	Limit Av (dBuV)	Margin (dB)	
						Qp	Av
0.150	0.10	19.36	66.00	11.13	56.00	-46.64	-44.87
0.170	0.10	20.22	64.94	18.67	54.94	-44.72	-36.27
0.187	0.10	22.52	64.15	18.46	54.15	-41.63	-35.69
0.232	0.10	16.42	62.36	14.38	52.36	-45.94	-37.98
0.281	0.10	17.74	60.77	15.83	50.77	-43.03	-34.94
1.220	0.10	8.86	56.00	4.70	46.00	-47.14	-41.30

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



Phase : Neutral
 EUT : 35170
 Test Condition : Normal operating mode with adapter (U090020D)

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level AV (dBuV)	Limit Av (dBuV)	Margin (dB)	
						Qp	Av
0.170	0.10	20.98	64.94	19.24	54.94	-43.96	-35.70
0.187	0.10	22.96	64.15	19.12	54.15	-41.19	-35.03
0.234	0.10	17.26	62.29	15.21	52.29	-45.03	-37.08
0.284	0.10	17.68	60.71	14.96	50.71	-43.03	-35.75
0.508	0.10	13.92	56.00	10.17	46.00	-42.08	-35.83
2.080	0.10	9.20	56.00	4.79	46.00	-46.80	-41.21

Remark:

1. Correction Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)

