FCC PART 15.249
EMI MEASUREMENT AND TEST REPORT

For

YHT ELECTRONIC TECHNOLOGY LIMITED

MSC 2196 RM 1602 16/F OMEGA PLAZA 32 DUNDAS ST MONGKOK KL HK

FCC ID: SASANJ09122

March 1, 2005

This Report Concerns:	**Equipment Type:**
☒ Original Report	Transmitter, 2.4G WIRELESS CAMERA

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Test Date:	February 23, 2005
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The YHT ELECTRONIC TECHNOLOGY LIMITED 's product, model number: ANJ09122 or the "EUT" as referred to in this report is a 2.4G WIRELESS CAMERA Transmitter. The EUT is measured approximately 3.5cm L x 2.5cm W x 5.0cm H. rated input voltage: DC 8V.

** The test data gathered are from production sample, serial number: 0409006, provided by the manufacturer.*

Objective

This Type approval report is prepared on behalf of *YHT ELECTRONIC TECHNOLOGY LIMITED* in accordance with Part 2, Subpart J, and Part 15, Subparts A , B and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules, sec 15.207, 15.209 and sec 15.249.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

Test site at Bay Area Compliance Laboratory Corporation has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Justification

The EUT was configured for testing according to ANSI C63.4-2003.

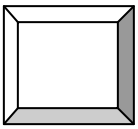
Schematics and Block Diagram

Please refer to Appendix D.

Equipment Modifications

No modifications were made to the EUT.

Test Setup Configuration



2.4G WIRELESS CAMERA

SUMMARY OF TEST RESULTS

Results reported relate only to the product tested, serial number: 0409006.

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Bands of Operation	Compliant
§15.207(a)	Conduction Emission	N/A
§15.209(a), §15.249(a)	Radiated Emission	Compliant
§15.249(c)	Band Edge Testing	Compliant

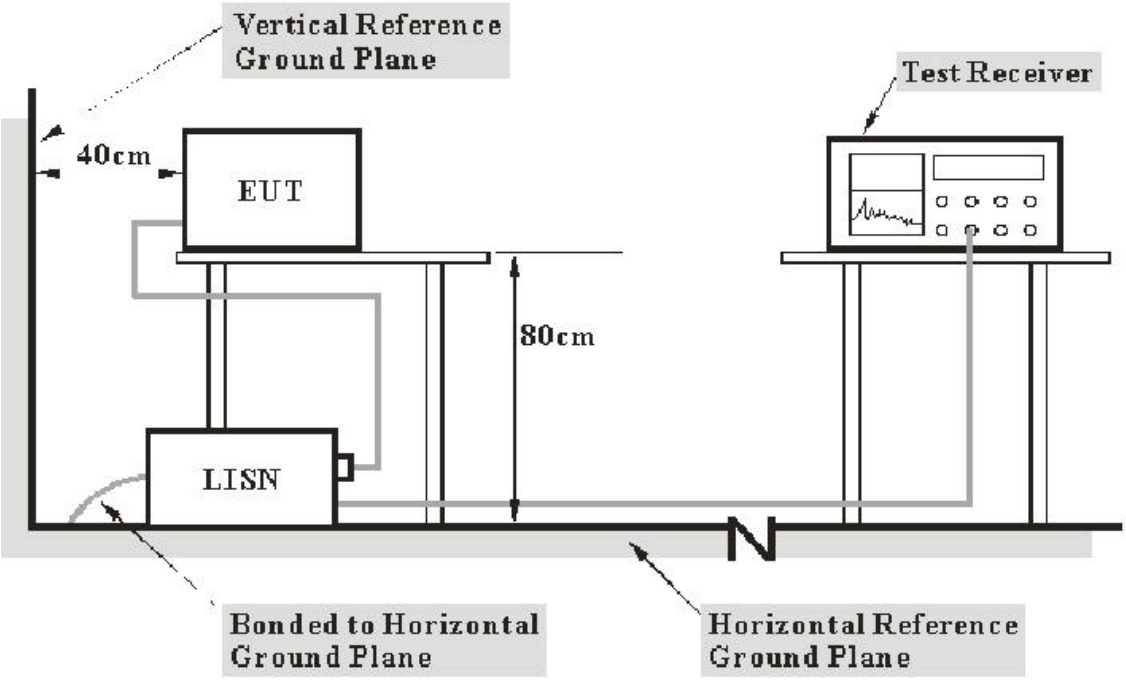
§15.207 - CONDUCTED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at BACL is ±2.4 dB.

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15 Class B limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI Test Receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the test receiver was set with the following configurations:

Frequency Range	***IFBW***
150 kHz – 30 MHz	9 kHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Com-Power	L.I.S.N.	LI-200	12005	N/A	N/A
Com-Power	L.I.S.N.	LI-200	12008	N/A	N/A
Rohde & Schwarz	Test Receiver	ESCS30	830245/006	2005-01-26	2006-01-26
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2005-02-28	2006-02-27
Rohde & Schwarz	Pulse Limiter	ESH3Z2	DE25985	2004-09-01	2005-08-31

***** Com-Power's LISN were used as the supporting equipment.
*** Statement of Traceability: BACL** attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

During the conducted emission test, the adapter power cord was connected to the outlet of the LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.249, with the worst margin reading of:

Low channel: **-13.70 dB** at **0.530 MHz** in the **Line** conductor mode.
Middle channel: **-14.17 dB** at **0.490 MHz** in the **Line** conductor mode.
High channel: **-8.90 dB** at **1.170 MHz** in the **Line** conductor mode.

Test Data

Environmental Conditions

Temperature:	28 ° C
Relative Humidity:	37%
ATM Pressure:	1032mbar

The testing was performed by Jandy Su on 2005-02-21.

LINE CONDUCTED EMISSIONS				FCC PART 15 CLASS B	
Frequency MHz	Amplitude dBµV	Detector QP/AV	Phase Line/Neutral	Limit dBµV	Margin dB
Low Channel					
0.530	32.30	AV	Line	46.00	-13.70
1.840	29.30	AV	Line	46.00	-16.70
0.530	38.70	QP	Line	56.00	-17.30
0.490	27.30	AV	Neutral	46.17	-18.87
1.840	36.60	QP	Line	56.00	-19.40
0.200	34.10	AV	Line	53.61	-19.51
0.170	43.90	QP	Neutral	64.96	-21.06
0.330	28.30	AV	Neutral	49.45	-21.15
0.170	32.90	AV	Neutral	54.96	-22.06
0.490	33.70	QP	Neutral	56.17	-22.47
0.200	40.40	QP	Line	63.61	-23.21
0.330	35.30	QP	Neutral	59.45	-24.15
Middle Channel					
0.490	32.00	AV	Line	46.17	-14.17
0.490	40.40	QP	Line	56.17	-15.77
0.490	29.56	AV	Neutral	46.17	-16.61
0.170	37.20	AV	Line	54.96	-17.76
0.990	28.10	AV	Line	46.00	-17.90
0.990	37.20	QP	Line	56.00	-18.80
0.170	43.60	QP	Line	64.96	-21.36
0.170	43.20	QP	Neutral	64.96	-21.76
0.490	33.40	QP	Neutral	56.17	-22.77
0.170	32.10	AV	Neutral	54.96	-22.86
17.670	20.20	AV	Neutral	50.00	-29.80
17.670	29.05	QP	Neutral	60.00	-30.95

Continuous:

High Channel					
1.170	37.10	AV	Line	46.00	-8.90
0.500	33.10	AV	Line	46.00	-12.90
0.500	40.60	QP	Line	56.00	-15.40
0.170	35.80	AV	Line	54.96	-19.16
1.170	35.90	QP	Line	56.00	-20.10
0.170	44.60	QP	Neutral	64.96	-20.36
0.170	43.40	QP	Line	64.96	-21.56
0.170	30.30	AV	Neutral	54.96	-24.66
0.330	34.30	QP	Neutral	59.45	-25.15
0.330	23.50	AV	Neutral	49.45	-25.95
0.920	18.60	AV	Neutral	46.00	-27.40
0.920	23.80	QP	Neutral	56.00	-32.20

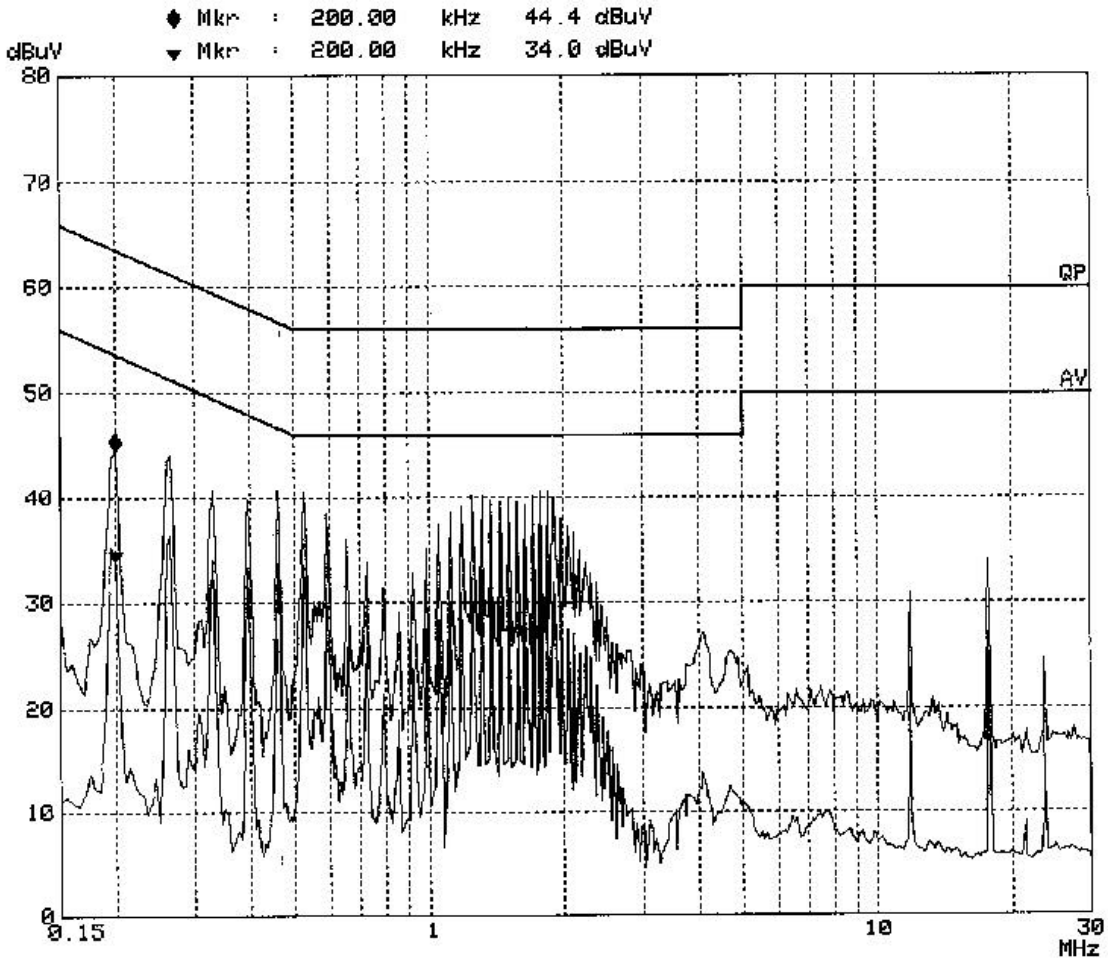
Test Result: Pass

Plot(s) of Test Data

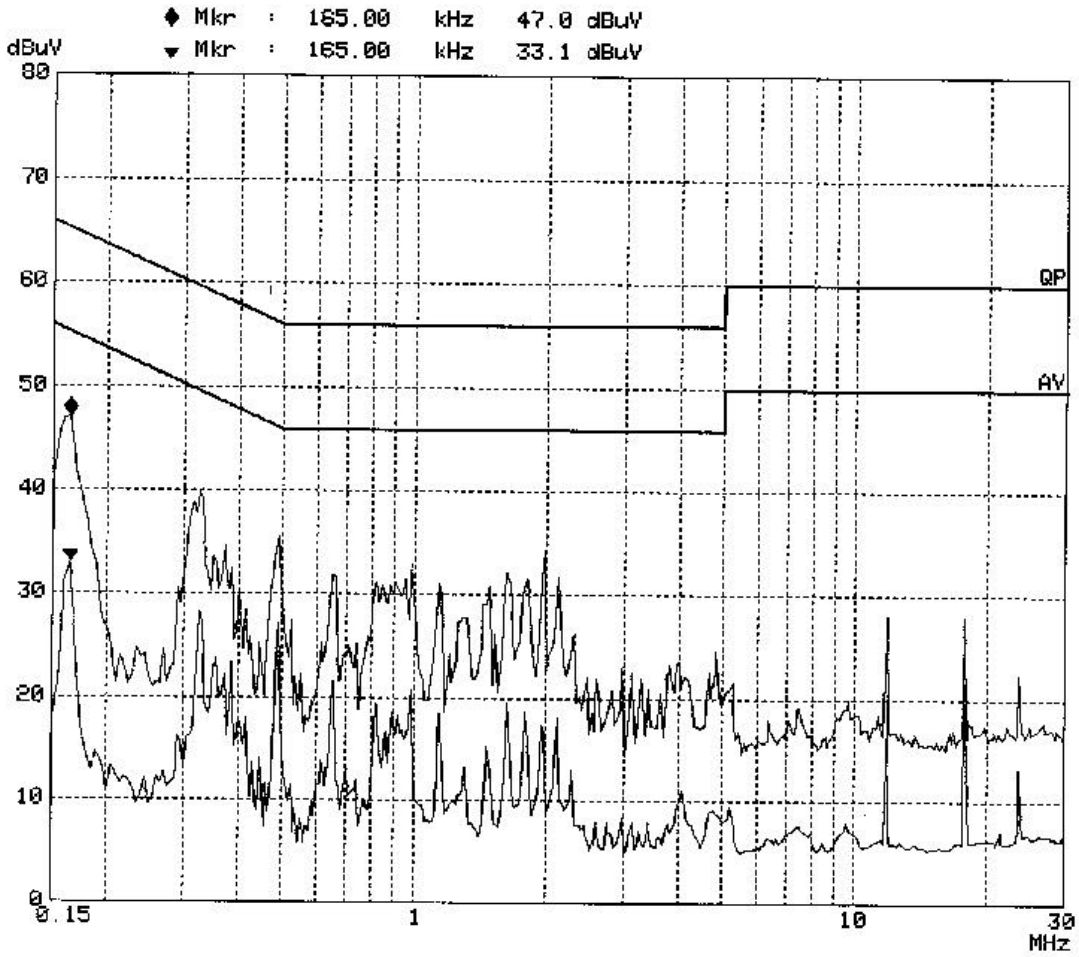
Plot(s) of Test Data is presented hereinafter as reference.

Low channel:

Line:

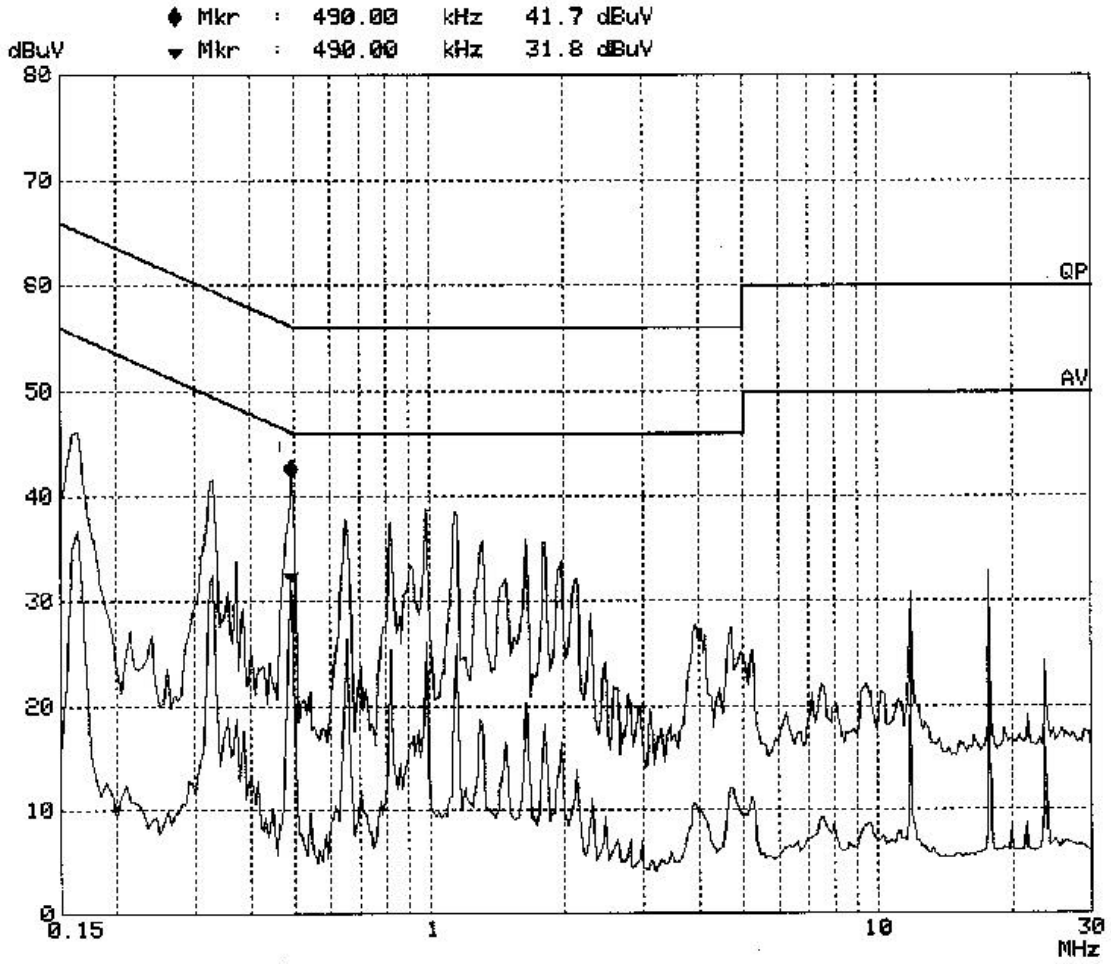


Neutral:

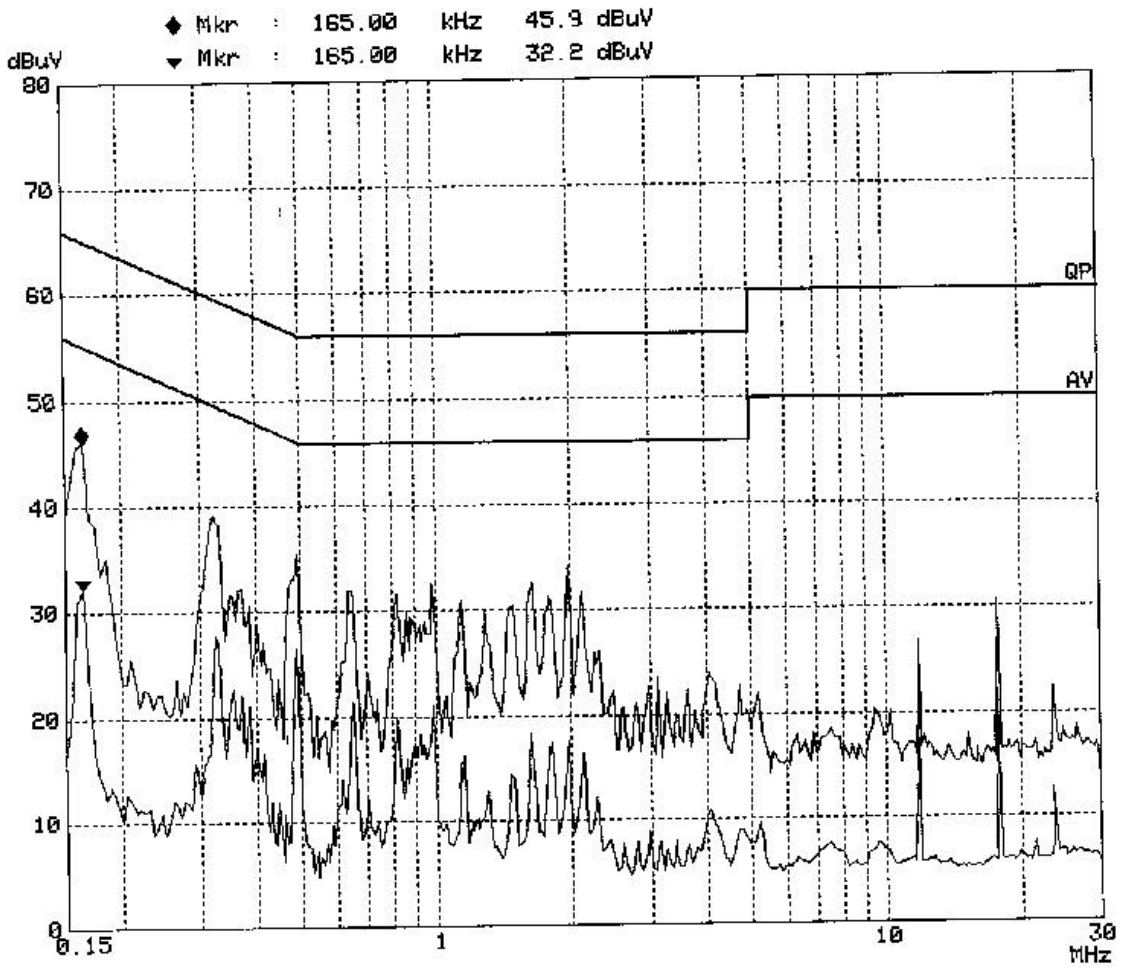

Mkr : 165.00 kHz 47.0 dBuV
Mkr : 165.00 kHz 33.1 dBuV
dBuV
80
70
60
50
40
30
20
10
0
0.15
1
10
30
MHz
QP
AV

Middle channel:

Line:

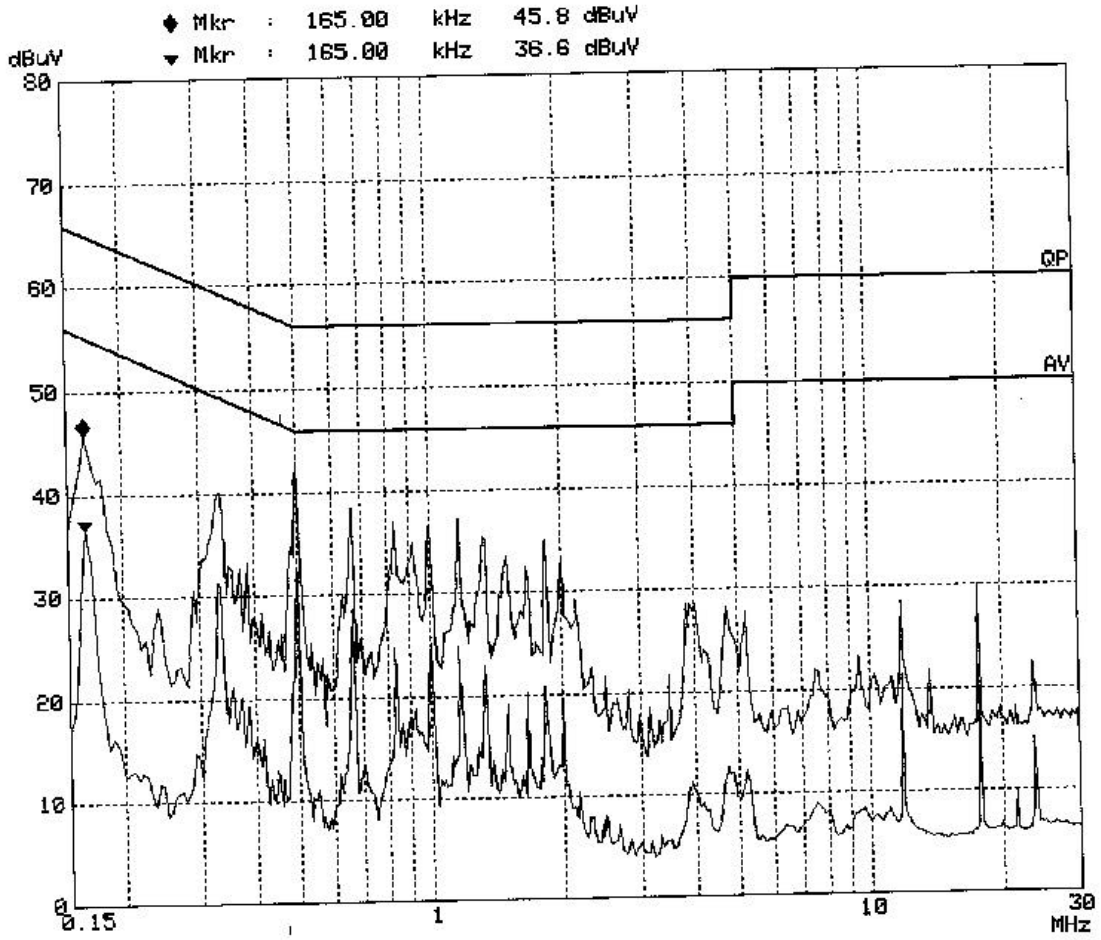


Neutral:

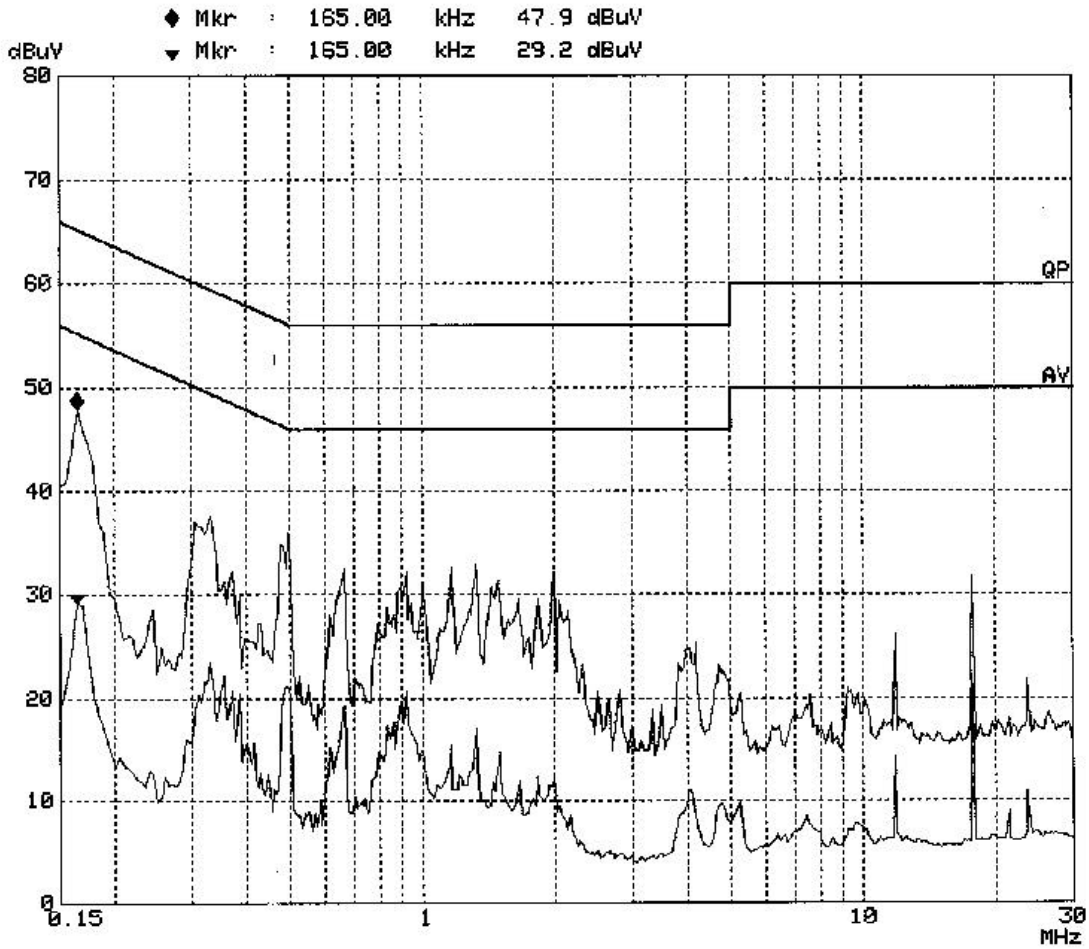

Mkr : 165.00 kHz 45.9 dBuV
Mkr : 165.00 kHz 32.2 dBuV
dBuV
80
70
60
50
40
30
20
10
0
0.15
1
10
30
MHz
QP
AV

High channel:

Line:



Neutral:


Mkr : 165.00 kHz 47.9 dBuV
Mkr : 165.00 kHz 29.2 dBuV
dBuV
80
70
60
50
40
30
20
10
0
0.15
1
10
30
MHz
QP
AV

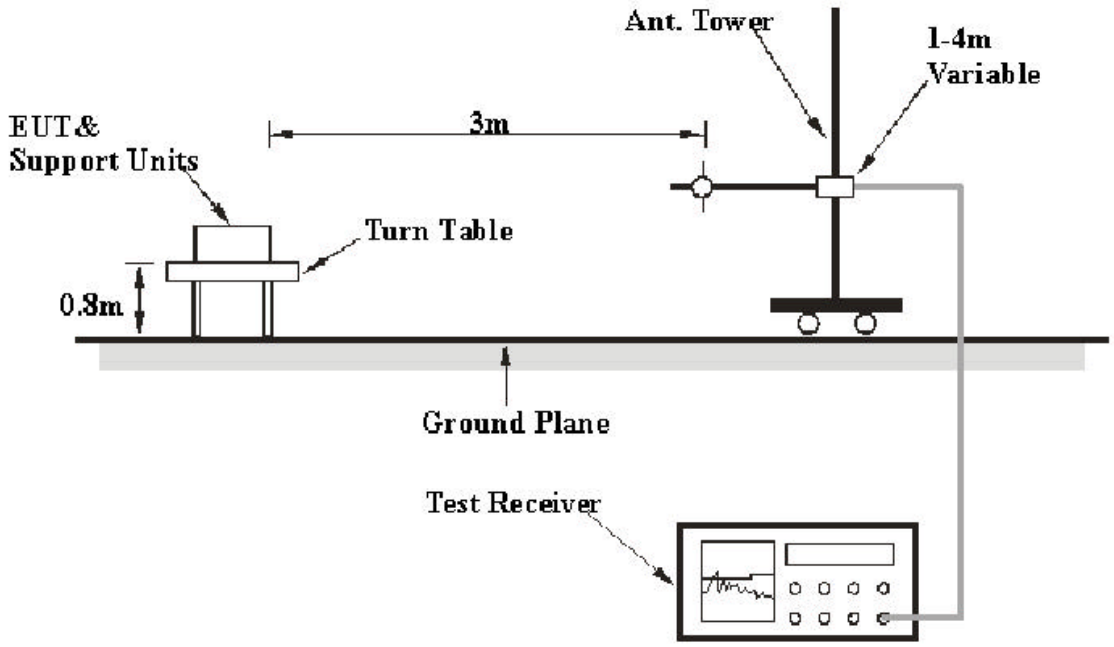
§15.209(a) §15.249(a) - RADIATED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ±4.0 dB.

EUT Setup



The radiated emission tests were performed in the 3-meter Chamber, using the setup accordance with the ANSI C63.4-2001. The specification used was the FCC 15.209 and 15.249 limits.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 25 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	*RBW*	*Video B/W*
30 – 1000 MHz	100 kHz	100 kHz
1 GHz – 25 GHz	1MHz	1 MHz

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
HP	Amplifier	8447E	1937A01046	2004-09-01	2005-08-31
Rohde & Schwarz	Test Receiver	ESCI	100035	2004-09-15	2005-09-14
Sunol Sciences	Bilog Antenna	JB1	A040904-1	2004-04-19	2005-04-18
Sunol Sciences	Bilog Antenna	JB1	A040904-2	2004-04-19	2005-04-18
Sunol Sciences	Horn Antenna	DRH-118	A052604	2004-06-02	2005-06-02

*** Statement of Traceability: BACL** attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Standard Limit

Test Results Summary

According to the data in the following table, the EUT complied with the FCC Part 15.249, with the worst margin reading of:

Radiation below 1GHz:

Low channel: **-6.79 dB** at **70.54 MHz** in the **Vertical** polarization.
Middle channel: **-6.69 dB** at **70.58 MHz** in the **Vertical** polarization.
High channel: **-7.10 dB** at **72.14 MHz** in the **Vertical** polarization.

Radiation above 1GHz:

Low channel: **-0.5 dB** at **4829.4 MHz** in the **Horizontal** polarization.
Middle channel: **-0.2 dB** at **4857.4 MHz** in the **Vertical** polarization.
High channel: **-0.3 dB** at **4945.9 MHz** in the **Vertical** polarization.

Test Data

Environmental Conditions

Temperature:	28 ° C
Relative Humidity:	37%
ATM Pressure:	1032mbar

The testing was performed by Jandy Su on 2005-02-23.

Radiation below 1GHz

INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC PART 15 CLASS B	
Frequency MHz	Ampl. dBμV/m	Angle Degree	Height Meter	Polar H/ V	Antenna dB/m	Cable dB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low channel										
70.54	49.87	45	1.00	v	8.60	0.82	26.08	33.21	40.00	-6.79
144.08	45.93	45	1.00	v	13.80	1.10	25.58	35.25	43.50	-8.25
64.31	48.92	45	1.00	h	8.10	0.75	26.10	31.67	40.00	-8.33
52.70	45.46	45	1.00	h	8.50	0.69	26.24	28.41	40.00	-11.59
142.35	41.32	60	1.20	h	13.80	1.10	25.58	30.64	43.50	-12.86
153.64	40.10	60	1.20	v	13.10	1.10	25.51	28.79	43.50	-14.71
118.01	39.57	270	1.00	h	13.30	1.10	25.69	28.28	43.50	-15.22
122.59	38.55	270	1.00	v	14.00	1.10	25.64	28.01	43.50	-15.49
76.55	39.66	180	1.20	h	8.60	0.84	26.05	23.05	40.00	-16.95
130.32	36.33	60	1.20	v	14.50	1.10	25.70	26.23	43.50	-17.27
164.98	37.60	45	1.20	v	12.70	1.10	25.43	25.97	43.50	-17.53
94.10	39.65	0	1.00	h	7.70	0.91	25.89	22.37	43.50	-21.13
Middle channel										
70.58	49.97	45	1.00	v	8.60	0.82	26.08	33.31	40.00	-6.69
144.71	46.02	45	1.00	v	13.80	1.10	25.58	35.34	43.50	-8.16
78.70	47.04	45	1.00	h	8.60	0.84	26.05	30.43	40.00	-9.57
52.73	44.74	45	1.00	h	8.50	0.69	26.24	27.69	40.00	-12.31
142.55	40.84	60	1.20	h	13.80	1.10	25.58	30.16	43.50	-13.34
118.20	39.38	270	1.00	h	13.30	1.10	25.69	28.09	43.50	-15.41
153.91	39.22	60	1.20	v	13.10	1.10	25.51	27.91	43.50	-15.59
122.53	37.70	270	1.00	v	14.00	1.10	25.64	27.16	43.50	-16.34
76.53	39.62	180	1.20	h	8.60	0.84	26.05	23.01	40.00	-16.99
130.10	36.41	60	1.20	v	14.50	1.10	25.70	26.31	43.50	-17.19
165.27	36.65	45	1.20	v	12.50	1.20	25.45	24.90	43.50	-18.60
94.39	39.37	0	1.00	h	7.70	0.91	25.89	22.09	43.50	-21.41

Continuous:

High channel										
72.14	49.56	45	1.00	v	8.60	0.82	26.08	32.90	40.00	-7.10
48.52	47.65	45	1.00	h	10.80	0.56	26.20	32.81	40.00	-7.19
144.52	45.85	45	1.00	v	13.80	1.10	25.58	35.17	43.50	-8.33
52.73	46.32	45	1.00	h	8.50	0.69	26.24	29.27	40.00	-10.73
153.06	42.79	60	1.20	v	13.10	1.10	25.51	31.48	43.50	-12.02
144.30	41.55	60	1.20	h	13.80	1.10	25.58	30.87	43.50	-12.63
122.58	41.36	270	1.00	v	14.00	1.10	25.64	30.82	43.50	-12.68
118.24	39.10	270	1.00	h	13.30	1.10	25.69	27.81	43.50	-15.69
76.55	40.17	180	1.20	h	8.60	0.84	26.05	23.56	40.00	-16.44
164.31	38.55	45	1.20	v	12.70	1.10	25.43	26.92	43.50	-16.58
130.02	36.40	60	1.20	v	14.50	1.10	25.70	26.30	43.50	-17.20
96.03	41.44	0	1.00	h	8.20	0.93	25.99	24.58	43.50	-18.92

Radiation above 1GHz

INDICATED		TABLE	ANTENNA		CORRECTION FACTOR			CORRECTED AMPLITUDE	FCC 15.249	
Frequency MHz	Ampl. dBμV/m	Angle Degree	Height Meter	Polar H/ V	Antenna dB/m	Cable dB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low channel										
4829.4	47.80	180	1.2	h	33.8	4.9	33.00	53.5	54(av)	-0.5
4830.7	47.80	270	1.0	v	33.8	4.9	33.00	53.5	54(av)	-0.5
4829.4	67.51	180	1.2	h	33.8	4.9	33.00	73.2	74(pk)	-0.8
4830.7	65.52	60	1.0	v	33.8	4.9	33.00	71.2	74(pk)	-2.8
9647.4	40.85	60	1.0	h	37.6	6.8	34.50	50.8	54(av)	-3.3
9646.1	40.85	90	1.2	v	37.6	6.8	34.50	50.8	54(av)	-3.3
7236.8	41.62	45	1.0	h	35.8	6.0	34.11	49.3	54(av)	-4.7
7251.3	41.62	45	1.2	v	35.8	6.0	34.11	49.3	54(av)	-4.7
7251.3	61.42	180	1.2	v	35.8	6.0	34.11	69.1	74(pk)	-4.9
9646.1	58.26	0	1.0	v	37.6	6.8	34.50	68.2	74(pk)	-5.8
2412.1	91.50	45	1.0	h	28.1	3.7	35.16	88.1	94(av)	-5.9
2412.4	91.50	180	1.2	v	28.1	3.7	35.16	88.1	94(av)	-5.9
7236.8	60.01	45	1.2	h	35.8	6.0	34.11	67.7	74(pk)	-6.3
9647.4	56.33	60	1.0	h	37.6	6.8	34.50	66.2	74(pk)	-7.8
2412.4	100.20	45	1.2	v	28.1	3.7	35.16	96.9	114(pk)	-17.1
2412.1	95.30	45	1.2	h	28.1	3.7	35.16	91.9	114(pk)	-22.1

Continuous:

Middle channel										
4857.4	48.14	270	1.0	v	33.8	4.9	33.00	53.8	54(av)	-0.2
4857.4	47.02	180	1.2	h	33.8	4.9	33.00	52.7	54(av)	-1.3
7290.6	45.06	45	1.2	v	35.8	6.0	34.11	52.8	54(av)	-1.3
7290.6	44.95	45	1.0	h	35.8	6.0	34.11	52.6	54(av)	-1.4
9720.4	41.47	60	1.0	h	37.6	6.8	34.50	51.4	54(av)	-2.6
2432.1	94.62	180	1.2	v	28.1	3.7	35.16	91.3	94(av)	-2.7
2432.1	93.62	45	1.0	h	28.1	3.7	35.16	90.3	94(av)	-3.7
9720.4	40.13	90	1.2	v	37.6	6.8	34.50	50.0	54(av)	-4.0
4857.4	64.02	60	1.0	v	33.8	4.9	33.00	69.7	74(pk)	-4.3
4857.4	63.52	180	1.2	h	33.8	4.9	33.0	69.2	74(pk)	-4.8
7290.6	57.34	180	1.2	v	35.8	6.0	34.11	65.0	74(pk)	-9.0
7290.6	56.74	45	1.2	h	35.8	6.0	34.11	64.4	74(pk)	-9.6
9720.4	53.60	0	1.0	v	37.6	6.8	34.50	63.5	74(pk)	-10.5
9720.4	52.38	60	1.0	h	37.6	6.8	34.50	62.3	74(pk)	-11.7
2432.1	101.20	45	1.2	v	28.1	3.7	35.16	97.8	114(pk)	-16.2
2432.1	98.66	45	1.2	h	28.1	3.7	35.16	95.3	114(pk)	-18.7
High channel										
4945.90	48.00	270	1.0	v	33.8	4.9	33.00	53.7	54(av)	-0.3
7397.90	45.70	45	1.2	v	35.8	6.0	34.11	53.4	54(av)	-0.6
7401.10	44.75	45	1.0	h	35.8	6.0	34.11	52.4	54(av)	-1.6
9859.60	42.30	90	1.2	v	37.6	6.8	34.50	52.2	54(av)	-1.8
4967.30	46.36	180	1.2	h	33.8	4.9	33.00	52.1	54(av)	-1.9
4945.90	66.30	60	1.0	v	33.8	4.9	33.00	72.0	74(pk)	-2.0
9859.60	62.00	0	1.0	v	37.6	6.8	34.50	71.9	74(pk)	-2.1
7397.90	62.80	180	1.2	v	35.8	6.0	34.11	70.5	74(pk)	-3.5
4967.30	63.92	180	1.2	h	33.8	4.9	33.00	69.6	74(pk)	-4.4
2468.40	90.71	180	1.2	v	28.1	3.7	35.16	87.4	94(av)	-6.6
7401.10	59.41	45	1.2	h	35.8	6.0	34.11	67.1	74(pk)	-6.9
9865.30	36.01	60	1.0	h	37.6	6.8	34.50	45.9	54(av)	-8.1
2468.90	84.40	45	1.0	h	28.1	3.7	35.16	81.0	94(av)	-13.0
9865.30	51.10	60	1.0	h	37.6	6.8	34.50	61.0	74(pk)	-13.0
2468.90	97.60	45	1.2	h	28.1	3.7	35.16	94.2	114(pk)	-19.8
2468.40	93.80	45	1.2	v	28.1	3.7	35.16	90.5	114(pk)	-23.5

Test Result: Pass

§15.249(c) - BAND EDGE TESTING

Standard Applicable

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 or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Test Procedure

With the EUT's antenna attached, the EUT's radiated emission power was received by the test antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JBI	A040904-1	2004-04-19	2005-04-18
HP	Amplifier	8447D	2994A09795	2004-09-01	2005-08-31
THERMAX	Coaxial Cable	RGS-142	EC002	2004-11-20	2005-11-19
Rohde& Schwarz	EMI Test Receiver	ESCS30	830245/006	2004-11-20	2005-11-19
HP	Preamplifier	8449B	3008A00277	2004-10-30	2005-10-29
Utiflex	Coaxial	N/A	EC004	2004-10-30	2005-10-29
Sunol Sciences	Horn Antenna	DRH-118	A052604	2004-06-02	2005-06-02

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

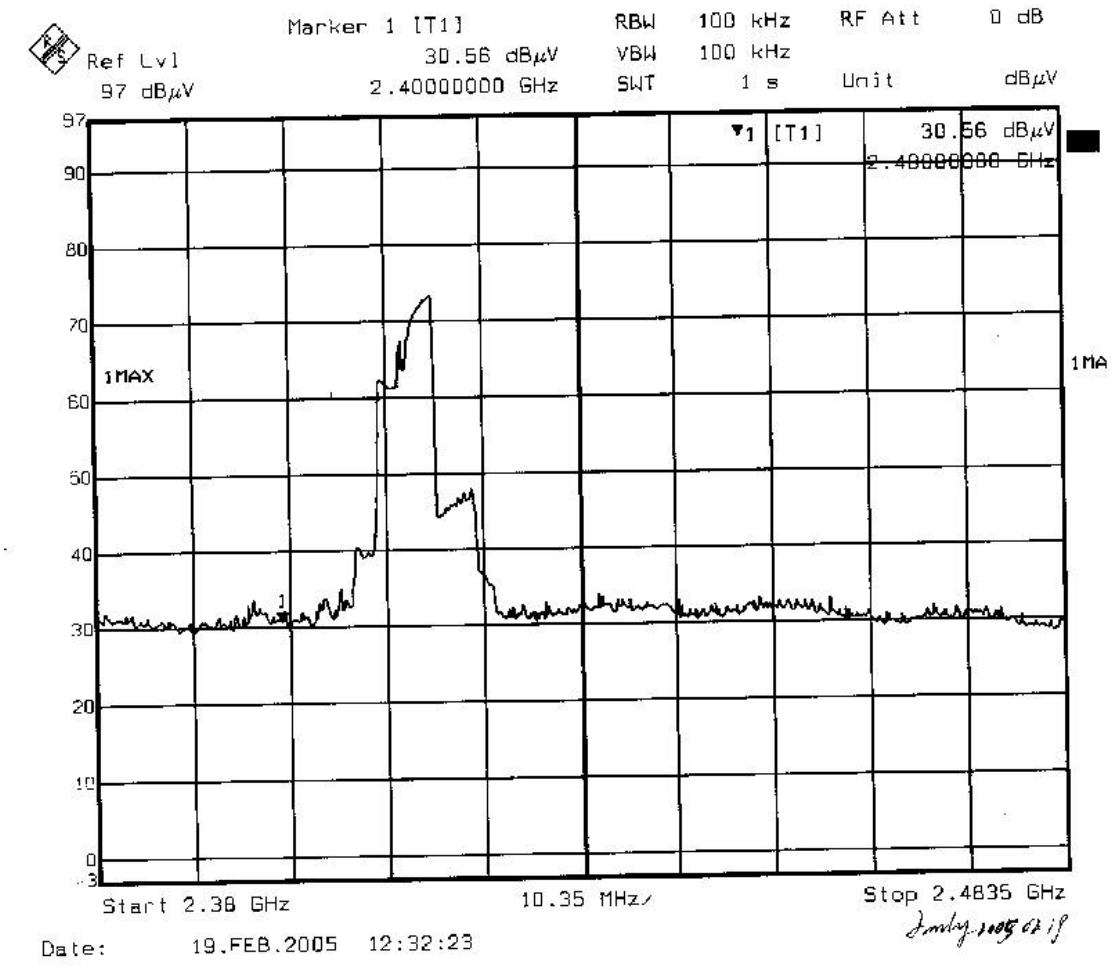
Environmental Conditions

Temperature:	20 °C
Relative Humidity:	55%
ATM Pressure:	1016mbar

Test Result: Pass

Refer to the attached plots.

Low Channel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RBW 100 kHz
VBW 100 kHz
SWT 1 s
RF Att 0 dB
Unit dBμV
Ref Lvl
97 dBμV
▼1 [T1] 30.56 dBμV
2.40000000 GHz
1MAX
1MA
97
90
80
70
60
50
40
30
20
10
0
-3
Start 2.38 GHz
10.35 MHz/
Stop 2.4835 GHz
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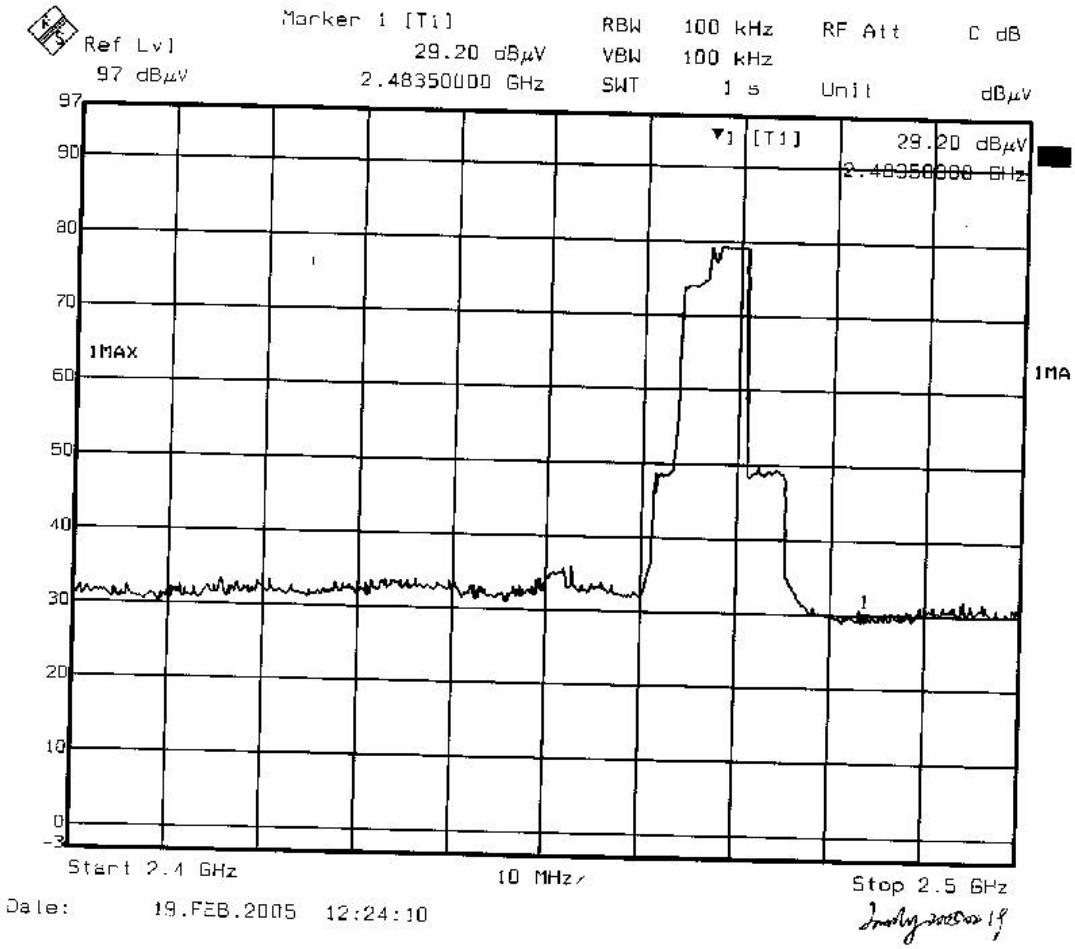
High Channel