



FCC CFR47 CERTIFICATION

PARTS 22H and 24E

TEST REPORT

FOR

TRI-BAND (850/1800/1900MHZ) VOQ PROFESSIONAL PHONE

MODEL: Voq A11

FCC ID: N7NVOQA11

REPORT NUMBER: 03U2438-1

ISSUE DATE: JANUARY 14, 2004

Prepared for

SIERRA WIRELESS INC., YW 13811 WIRELESS WAY RICHMOND, BRISTISH COLUMBIA CANADA

Prepared by

COMPLIANCE CERTIFICATION SERVICES 561F MONTEREY ROAD, ROUTE 2 MORGAN HILL, CA 95037, USA

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FCC ID: N7NVOQA11

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1. TEST RESULT CERTIFICATION

COMPANY NAME: SIERRA WIRELESS INC., YW

13811 WIRELESS WAY

RICHMOND, BRISTISH COLUMBIA

CANADA

EUT DESCRIPTION: Tri-band (850/1800/1900MHz) Voq Professional Phone

MODEL NAME: Voq A11

DATE TESTED: JANUARY 14, 2004

TYPE OF EQUIPMENT	INTENTIONAL RADIATOR, CELL PHONE
MEASUREMENT PROCEDURE	ANSI 63.4 / 2001, TIA/EIA 603
PROCEDURE	CERTIFICATION
FCC RULE	CFR 47 PART 22 SUBPART H AND PART 24 SUBPART E

Compliance Certification Services, Inc. tested the above equipment for compliance with the requirement set forth in CFR 47, PART 22 Subpart H and PART 24 subpart E Cellular Radiotelephone Service. The equipment in the configuration described in this report, shows the measured emission levels emanating from the equipment do not exceed the specified limit.

Note: This document reports conditions under which testing was conducted and results of tests performed. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document.

Tested By: Tested By:

BEN DU
EMC TECHNICIAN
COMPLIANCE CERTIFICATION SERVICES

Ben L. Dy

FRANK IBRAHIM
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

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EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

FCC ID: N7NVOQA11

Released For CCS By:

My

THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

2. EUT DESCRIPTION

800/1800/1900MHz TRIBAND GSM/GPRS SMART PHONE.

The 800MHz band has:

- an output ERP of 29.9 dBm
- a frequency range of 824 849 MHz

The 1900MHz band has:

- an output EIRP of 27.9 dBm
- a frequency range of 1850 1910 MHz

GSM 1800MHz is not in US Region.

3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures documented on chapter 13 of ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057.

4. TEST FACILITY

The sites and measurement facilities used to collect the radiated data are located at 561F Monterey Road, Morgan Hill, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5. ACCREDITATION AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200065-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (reference no: 31040/SIT (1300B3) and 31040/SIT (1300F2))

6. MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

7. INSTRUMENTATION LIST

Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date
Spectrum Analyzer	HP	E4446A	US42510266	7/23/2004
Preamplifier, 1 ~ 26 GHz	Miteq	NSP10023988	646456	4/25/2004
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	2/4/2004
Communication Tester	R & S	CMU 200	838114/032	11/14/2004
Horn Antenna	ETS Lindgren	3117	00029310	12/26/2004
Spectrum Analyzer 20 Hz ~ 44 GHz	Agilent	E4446A	US42070220	1/13/2004
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6717	2/4/2004
Horn Antenna	ETS Lindgren	3117	00029301	12/26/2004
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	6739	2/4/2004
Signal Generator, 2 ~ 40 GHz	R & S	SMP04	DE 34210	5/25/2005
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	11/21/2004
RF Filter Section	HP	85420E	3705A00256	11/21/2004
Signal Generator	R & S	SMY 01	DE 13010	6/2/2005
Dipole Antenna	ETS	DB-4	1629	5/15/2004

8. TEST SETUP, PROCEDURE AND RESULT

8.1. SECTION 2.1046: RF POWER OUTPUT

MEASUREMENT PROCEDURE

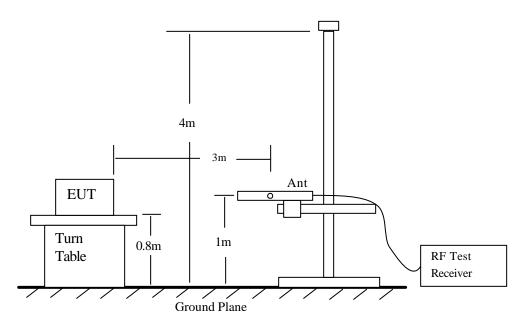
- 1). On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- 2). The test antenna shall be oriented initially for vertical polarization located 3m from the EUT to correspond to the frequency of the transmitter.
- 3). The output of the test antenna shall be connected to the measuring receiver and either a peak or quasi-peak detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- 4). The transmitter shall be placed 0.80 meter above the ground plane, the X, Y, and Z positions shall be tested and the worst case reported. The transmitter shall be switched on with typical modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.

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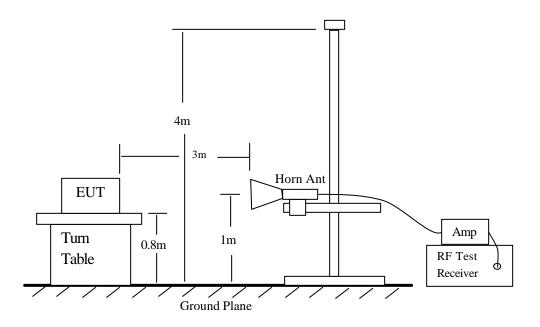
FCC ID: N7NVOQA11

5). The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.

- 6). The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 7). The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 8). The maximum signal level detected by the measuring receiver shall be noted.
- 9). The transmitter shall be replaced by a tuned dipole or horn antenna (substitution antenna).
- 10). The substitution antenna shall be oriented for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- 11). The substitution antenna shall be connected to a calibrated signal generator.
- 12). If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 13). The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- 14). The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- 15). The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- 16). The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.
- 17). The measure of the effective radiated power is the larger of the two levels recorded, at the input to the substitution antenna, corrected for the gain of the substitution antenna if necessary.

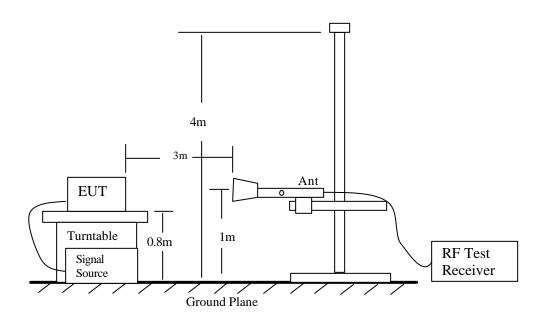


Radiated Emission Measurement 30 to 1000 MHz

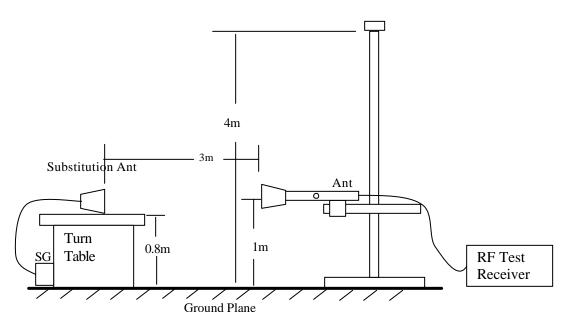


Radiated Emission Above 1000 MHz

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Radiated Emission Measurement



Radiated Emission - Substitution Method set-u

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 $EUT: Tri-band (850/1800/1900MHz)\ Voq\ Professional\ Phone$

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MEASUREMENT RESULT:

800MHz and 1900MHz Output Power Measurement:

		ERP
	FREQUENCY	PEAK
800 MHz (GSM)	(MHz)	(dBm)
LOW	824.2	29.8
MID	836.1	27.3
HI	848.8	27.8

		ERP
	FREQUENCY	PEAK
800 MHz (GPRS)	(MHz)	(dBm)
LOW	824.2	29.9
MID	836.1	28.4
HI	848.8	28.2

		EIRP
	FREQUENCY	PEAK
1900 MHz (GSM)	(MHz)	(dBm)
LOW	1850.2	27.9
MID	1874.2	25.8
HI	1909.9	25.7

		EIRP
	FREQUENCY	PEAK
1900 MHz (GPRS)	(MHz)	(dBm)
LOW	1850.2	27.7
MID	1874.2	26.0
HI	1909.9	25.8

FCC ID: N7NVOQA11

Radiated Emissions

Worst Orientation when the receiving antenna is vertical, (Y orientation)



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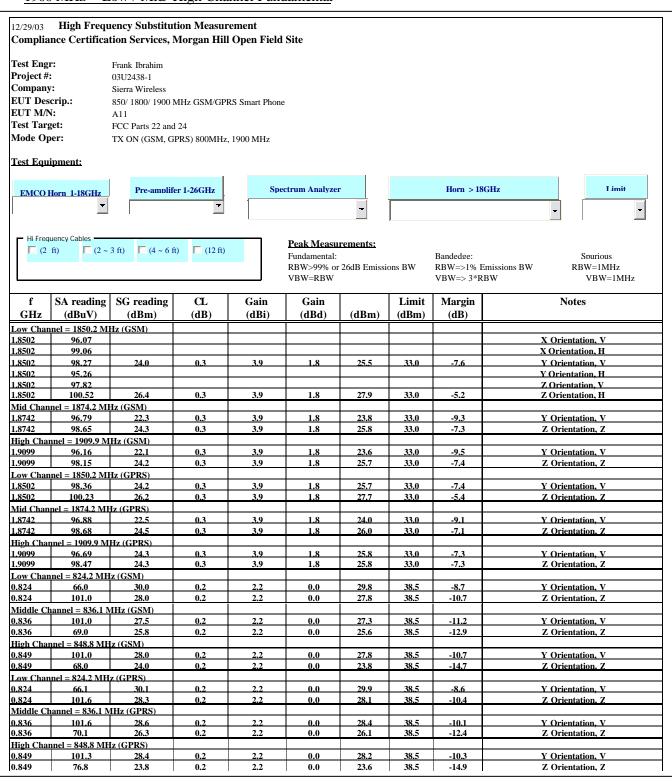
Worst Orientation when the receiving antenna is horizontal, (Z orientation)



EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

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Output Power (ERP), 800MHZ - Low / Mid / High Channel Fundamental, and Output Power (EIRP), 1900 MHz - Low / Mid/ High Channel Fundamental



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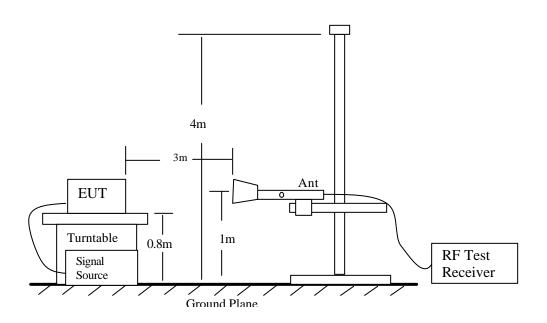
 $EUT: \ Tri-band\ (850/1800/1900MHz)\ Voq\ Profes\ sional\ Phone$

FCC ID: N7NVOQA11

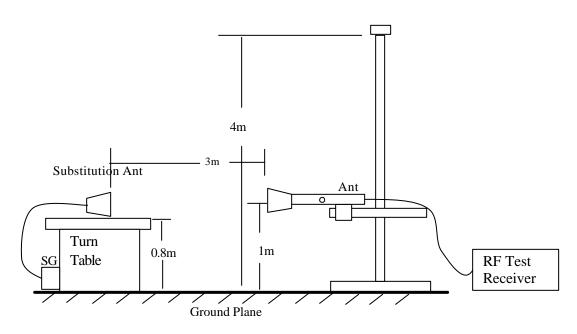
8.2. SECTION 2.1053: FIELD STRENGTH OF SPURIOUS RADIATION

Detector Function Setting of Test Receiver

Frequency Range (MHz)	Detector Function	Resolution Bandwidth	Video Bandwidth
Above 1000	Peak Average	1 MHz 1 MHz	✓ 1 MHz☐ 10 Hz



Radiated Emission Measurement



Radiated Emission – Substitution Method set-up

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EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

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TEST PROCEDURE

- 1). On a test site, the EUT shall be placed on a turntable, and in the position closest to the normal use as declared by the user.
- 2). The test antenna shall be oriented initially for vertical polarization located 1m from the EUT to correspond to the frequency of the transmitter.
- 3). The output of the test antenna shall be connected to the measuring receiver and either a peak or average detector was used for the measurement as indicated on the report. The detector selection is based on how close the emission level was approaching the limit.
- 4). The transmitter shall be switched on, if possible, without the modulation and the measurement receiver shall be tuned to the frequency of the transmitter under test.
- 5). The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 6). The transmitter shall than be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- 7). The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- 8). The maximum signal level detected by the measuring receiver shall be noted.
- 9). The transmitter shall be replaced by a substitution antenna.
- 10). The substitution antenna shall be oriented for vertical polarization.
- 11). The substitution antenna shall be connected to a calibrated signal generator.
- 12). If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- 13). The test antenna shall be raised and lowered through the specified range of the height to ensure that the maximum signal is received.
- 14). The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuation setting of the measuring receiver.
- 15). The input level to the substitution antenna shall be recorded as power level in dBm, corrected for any change of input attenuator setting of the measuring receiver.
- 16). The measurement shall be repeated with the test antenna and the substitution antenna oriented for horizontal polarization.
- 17). The measure of the effective radiated power is the larger of the two levels recorded, at the input to the substitution antenna, corrected for the gain of the substitution antenna if necessary.

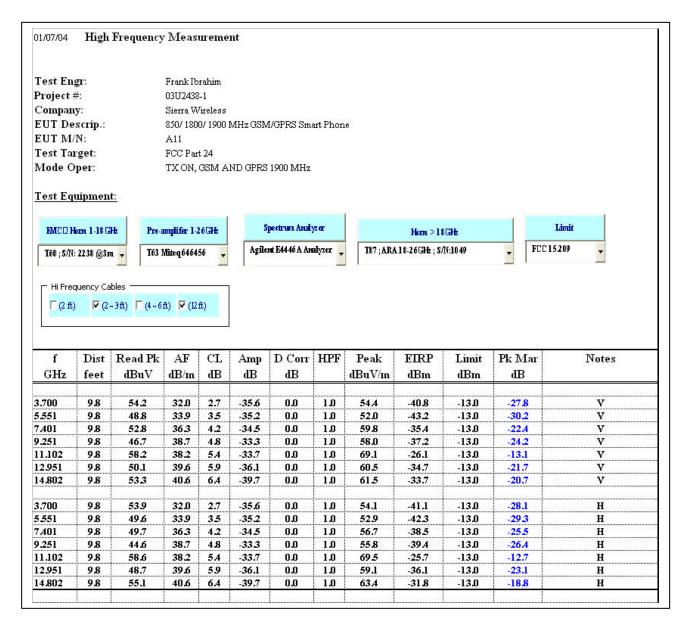
MEASUREMENT RESULT

No non-compliance noted, as shown below

EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

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1900MHz Band - Harmonics / Spurious and Substitution Emissions, Low / Mid / High Channels:



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EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

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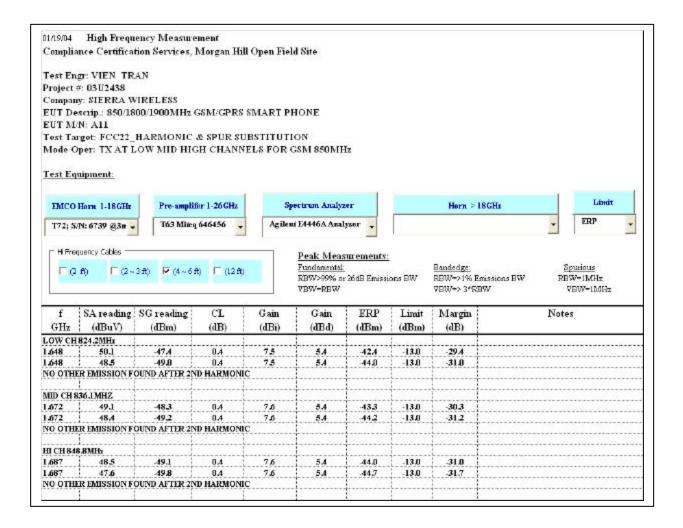
3.748	9.8	55.2	32.1	2.7	-35.6	0.0	1.0	55.5	-39.7	-13.0	-26.7	Y	
5.623	9.8	49.8	34.0	3.5	-35.1	0.0	1.0	53.2	-42.0	-13.0	-29.0	V	
7.497	9.8	51.3	36.5	4.2	-34.4	0.0	1.0	58 <i>.</i> 5	-36.7	-13.0	-23.7	V	
9.371	9.8	47.8	38.7	4.8	-33 <i>3</i>	0.0	1.0	59.0	-36.2	-13.0	-23.2	V	
11.245	9.8	57.6	38.4	5.4	-33.8	0.0	1.0	68.6	-26.6	-13.0	-13.6	Y	
13.119	9.8	50.3	39.7	59	-36.4	0.0	1.0	60.5	-34.7	-13.0	-21.7	V	
14.994	9.8	54.3	40.7	6.4	-40.1	0.0	1.0	62.4	-32.8	-13.0	-19.8	V	
3.748	9.8	52.8	32.1	2.7	-35.6	QO	1.0	53.1	-42.1	-13.0	-29.1	Н	
5.623	9.8	49.5	34.0	3.5	-35.1	0.0	1.0	52.9	-423	-13.0	-29.3	H	
7.497	9.8	48.7	36.5	4.2	-34.4	0.0	1.0	55.9	-39.3	-13.0	-26.3	H	
9.371	9.8	44.5	38.7	4.8	-33.3	0.0	1.0	55.7	-39.5	-13.0	-26.5	H	
11.245	9.8	57.2	38.4	5.4	-33.8	0.0	1.0	68.2	-27.0	-13.0	-14.0	Н	
13.119	9.8	49.1	39.7	59	-36.4	0.0	1.0	59.3	-35.9	-13.0	-22.9	H	
14.994	9.8	54.3	40.7	6.4	-40.1	0.0	1.0	62.4	-32.8	-13.0	-19.8	Н	
3.820	9.8	53.1	32.3	2.8	-35 <i>5</i>	QO	1.0	53.6	-41.6	-13.0	-28.6	v	
5.730	9.8	47.6	34.2	3.5	-35.1	0.0	1.0	51.2	-44.0	-13.0	-31.0	V	
7.640	9.8	51.5	36.6	4.2	-34.3	0.0	1.0	59.1	-36.1	-13.0	-23.1	V	
9.550	9.8	44.8	38.6	49	-33.3	0.0	1.0	55.9	-39.3	-13.0	-26.3	V	
11.459	9.8	58.1	38.6	5.5	-34.1	0.0	1.0	69.1	-26.1	-13.0	-13.1	V	
13.369	9.8	49.3	39.8	6.0	-36.9	0.0	1.0	59.2	-36.0	-13.0	-23.0	V	
15.279	9.8	53.1	40.0	6.5	-40.1	QO	1.0	60.5	-34.7	-13.0	-21.7	v	
3.820	9.8	52.6	32.3	2.8	-35 <i>5</i>	ΩO	1.0	53.1	-42.1	-13.0	-29.1	Н	
5.730	9.8	48.5	34.2	3.5	-35.1	0.0	1.0	52.1	-43.1	-13.0	-30.1	H	
7.640	9.8	48.2	36.6	4.2	-34.3	0.0	1.0	55.8	-39.4	-13.0	-26.4	H	
9.550	9.8	44.7	38.6	49	-33.3	0.0	1.0	55.8	-39.4	-13.0	-26.4	H	
11.459	9.8	57.2	38.6	5.5	-34.1	0.0	1.0	68.2	-27.0	-13.0	-14.0	H	
13.369	9.8	47.1	39.8	6.0	-36.9	0.0	1.0	57.0	-38.2	-13.0	-25.2	H	
15.279	9.8	54.1	40.0	6.5	-40.1	0.0	1.0	61.5	-33.7	-13.0	-20.7	Н	
	f	Measuren	nent Fred	uency	Amp	Preamp	Gain				Average Field	Strength Limit	
	Dist	Distance t	o Antenn	ıa	D Corr			t to 3 met	ers		Peak Field Str	rength Limit	
	31-22-31	Analyzer I			Avg	Average Field Strength @ 3 m					Margin vs. Average Limit		
	AF	Antenna F			Peak			Field Stre			Margin vs. Pe		
	CL	Cable Los			HPF	High Pas	cc Filter		(5.77 ²)				

NOTE: GPRS 1900MHz DATA ARE ALMOST SAME AS GSM 1900MHz

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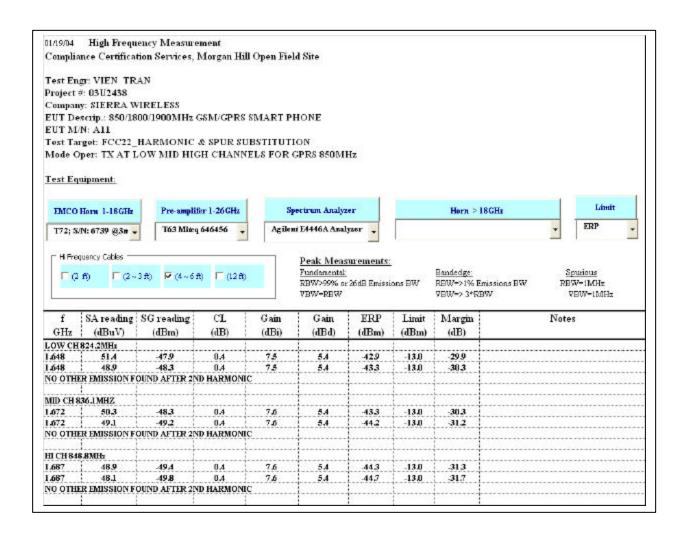
Note: Completed Scan from $30 \mathrm{MHz}$ to 10^{th} Harmonic.

850MHz Band - Harmonics / Spurious and Substitution Emissions, Low / Mid / High Channels



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FCC ID: N7NVOQA11



EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

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8.3. RADIATED EMISSION

TEST PERIPHERALS							
Device Type	Manufacturer	Model Number	Serial Number	FCC ID			
Laptop MODEM USB MOUSE PRINTER MICROPHONE SET	HP ACEEX LOGITECH HP UNKNOWN	10194130 1414 M-UA34 2225C UNKNOWN	CAT000069915 9013538 LTC70500299 2930S52614 UNKNOWN	DoC IFAXDM1414 DZL211087 DSI6XU2225 UNKNOWN			

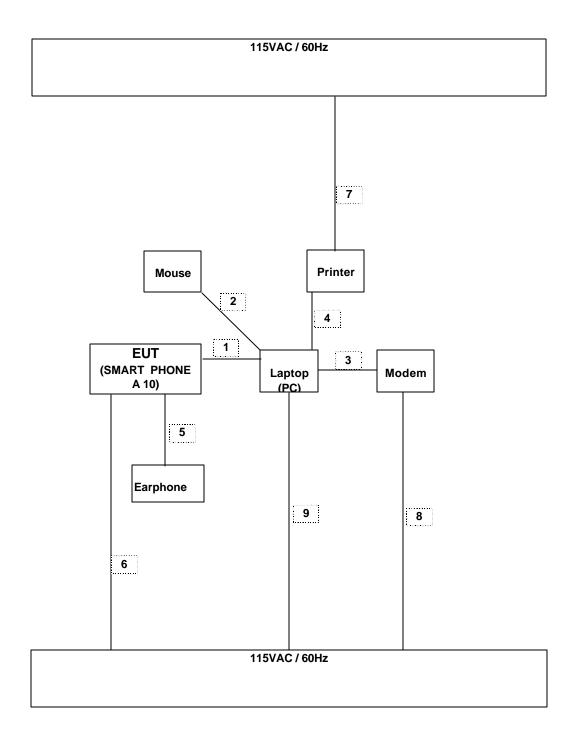
TEST I/O CABLES

	TEST I / O CABLES								
Cable	I/O	# of I/O	Connector	Type of	Cable	Data			
No	Port	Port	Type	Cable	Length	Traffic	Bundled	Remark	
1	EUT I/O Port	1	USB	Un-shielded	1 m	Yes	No	EUT: SMART PHONE	
2	Mouse	1	USB	Un-shielded	1.5	Yes	No		
3	Serial	1	DB9	Shielded	2 m	Yes	Yes	Fax Modem	
4	Parallel	1	DB25	Shielded	2 m	Yes	Yes	Printer	
5	EUT I/O Port	1	Din	Un-shielded	0.5 m	Yes	No	Microphone set	
9	AC	1	US115V	Un-shielded	2 m	No	Yes		
10	AC	1	US115V	Un-shielded	2 m	No	Yes		
11	AC	1	US115V	Un-shielded	2 m	No	Yes		
12	AC	1	US115V	Un-shielded	2 m	No	Yes		

Detector Setting of Spectrum Analyzer

Frequency Range (MHz)	Detector Function	Resolution Bandwidth	Video Bandwidth
30 to 1000	✓ Peak✓ Quasi Peak	∑ 100 KHz ∑ 1 MHz	✓ 100 KHz✓ 1 MHz

TEST SETUP



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EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

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TEST PROCEDURE

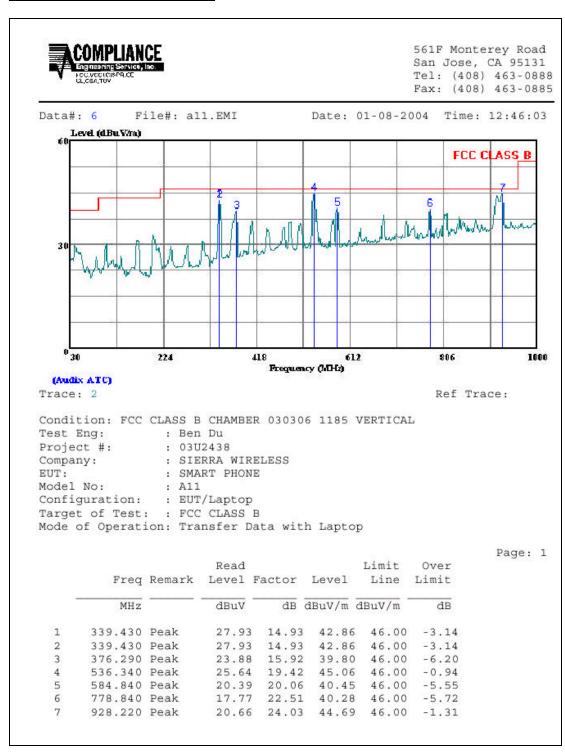
- 1. The EUT was placed on the turn table 0.8 meter above ground inside 3 meter Anechoic Chamber.
- 2. Set the resolution bandwidth to 120KHz in the test receiver and select Peak function to scan the frequency below 1 GHz.
- 3. Shift the interference-receiving antenna located in antenna tower upwards and downwards between 1 and 4 meters above ground and find out the local peak emission on frequency domain.
- 4. Locate the interference-receiving antenna at the position where the local peak reach the maximum emission.
- 5. Rotate the turn table and stop at the angle where the measurement device has maximum reading
- 6. Shift the interference-receiving antenna again to detect the maximum emission of the local peak
- 7. If the reading of the local peak under Peak function is lower than limit by 6dB, then Quasi Peak detection is not needed and this reading should be recorded. And if it is higher than Peak limit, then the test is fail. Others, switch the receiver to Quasi Peak function, set the resolution bandwidth to 100kHz and repeat the procedures (3)~(6). If the reading is lower than limit, this reading should be recorded, otherwise, the test is fail.

MEASUREMENT RESULT

No non-compliance noted, as shown below.

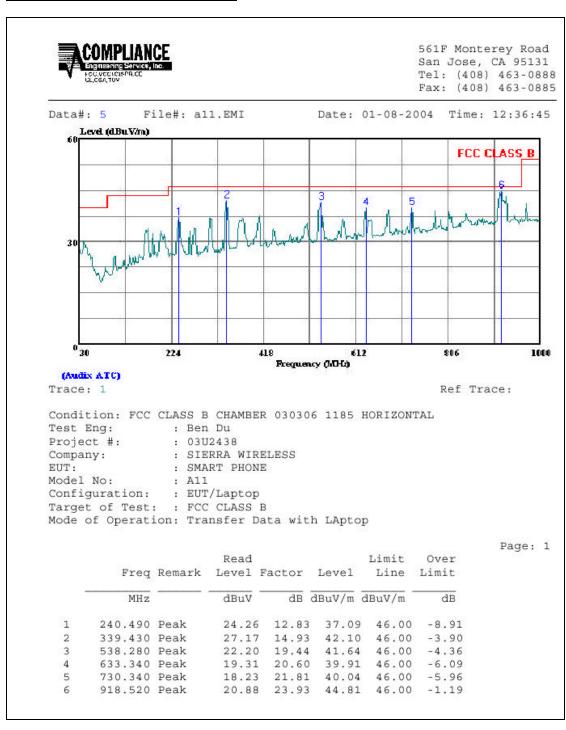
800MHz AND 1900MHz BANDS FROM 30MHz TO 1000MHz

VERTICAL POLARIZATION:



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HORIZONTAL POLARIZATION:



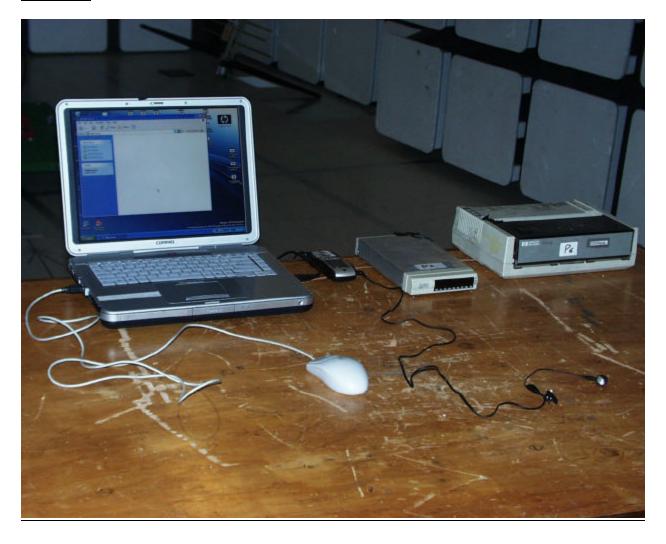
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 $EUT: \ Tri-band\ (850/1800/1900MHz)\ Voq\ Professional\ Phone$

FCC ID: N7NVOQA11

Radiated Emission photos

Front view



 $EUT: \ Tri-band\ (850/1800/1900MHz)\ Voq\ Professional\ Phone$

FCC ID: N7NVOQA11

Back view



EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

FCC ID: N7NVOQA11

8.4. POWERLINE CONDUCTED EMISSION

Detector Function Setting of Test Receiver

Frequency Range (MHz)	1 Detector Function		Video Bandwidth	
150 KHz to 30 MHz	Peak CISPR Quasi Peak	⊠ 9 KHz	⊠ 9 KHz	

TEST PROCEDURE

- 1. The EUT was placed on a wooden table 40 cm from a vertical ground plane and approximately 80 cm above the horizontal ground plane on the floor. The EUT was set to transmit in a continuous mode.
- 2. Line conducted data was recorded for both NEUTRAL and HOT lines.

FCC ID: N7NVOQA11

MEASUREMENT RESULT (FOR BOTH 800MHz AND 1900MHz BANDS)

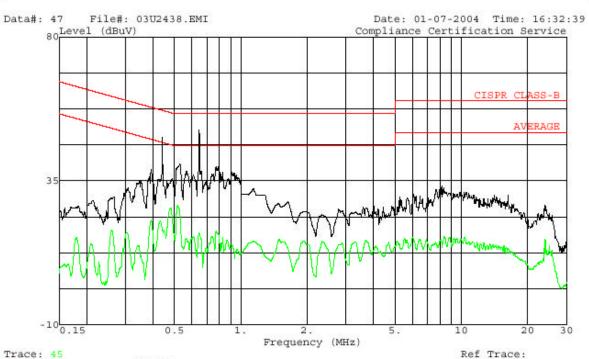
LINE 1



561F Monterey Road, San Jose, CA 95037

USA

Tel: (408) 463-0885 Fax: (408) 463-0888



Project # : 03U2438 Test Operator : Ben Du

Company : SIERRA WIRELESS EUT : GSM/GPRS Smart Phone

: Voq All : EUT, Laptop Model Configuration

Mode of Operation: Trans Data between EUT and Laptop

Target of Test : FCC Class B Voltage : 115Vac/60Hz

: L1:Peak (BLACK), Avrage (GREEN)

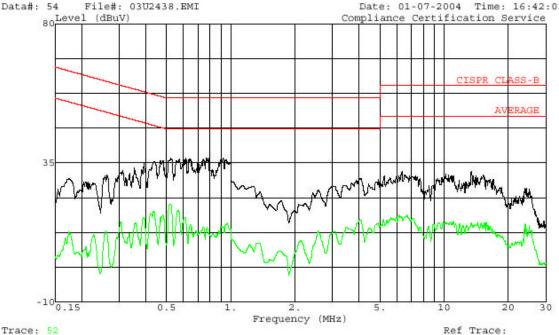
LINE 2



561F Monterey Road, San Jose, CA 95037

Tel: (408) 463-0885 Fax: (408) 463-0888

Date: 01-07-2004 Time: 16:42:01 Compliance Certification Service



Trace: 52 : 03U2438 Project # Test Operator : Ben Du

: SIERRA WIRELESS Company : GSM/GPRS Smart Phone EUT

Mode1 : Voq All

Configuration : EUT, Laptop Mode of Operation: Trans Data between EUT and Laptop

Target of Test : FCC Class B Voltage : 115Vac/60Hz

: L2:Peak (BLACK), Avrage (GREEN)

EUT: Tri-band~(850/1800/1900MHz)~Voq~Profes~sional~Phone

FCC ID: N7NVOQA11

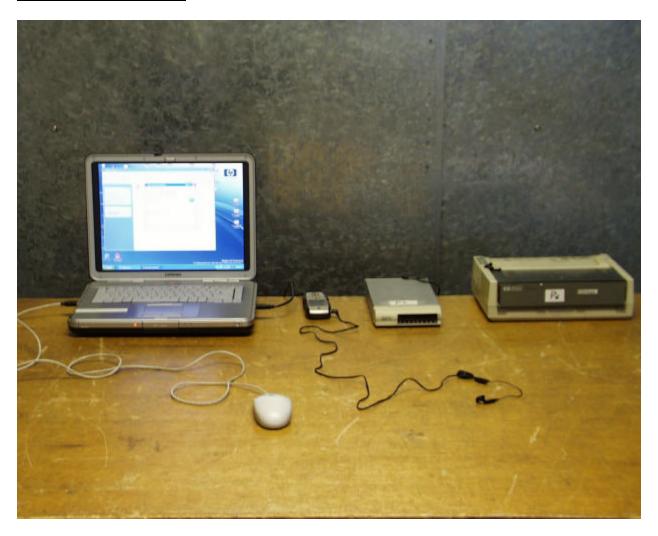
LINE CONDUCTION DATA (FOR BOTH 800MHz AND 1900MHz BANDS)

Freq. (MHz)	Reading			Closs	Limit		Margin		Remark
	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV(dB)	L1/L2
0.71	52.30		4.59	0.00	56.00	46.00	-3.70	-41.41	L1
0.76	50.98	55	3.95	0.00	56.00	46.00	-5.02	-42.05	L1
4.14	32.48	27	17.72	0.00	56.00	46.00	-23.52	-28.28	L1
0.45	41.40	5-	25.70	0.00	57.37	47.37	-15.97	-21.67	L2
0.91	47.66	94	21.86	0.00	56.00	46.00	-8.34	-24.14	L2
19.64	32.02	22	17.45	0.00	60.00	50.00	-27.98	-32.55	L2

 $EUT: \ Tri-band\ (850/1800/1900MHz)\ Voq\ Professional\ Phone$

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LINE CONDUCTION - FRONT



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EUT: Tri-band (850/1800/1900MHz) Voq Professional Phone

FCC ID: N7NVOQA11

LINE CONDUCTION - BACK



9. APENDIX

- 9.1. EXTERNAL & INTERNAL PHOTOS
- 9.2. SCHEMATICS
- 9.3. BLOCK DIAGRAM
- 9.4. USER MANUAL

END OF REPORT