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Tel: +82-31-321-2664 Fax: +82-31-321-1664

<http://www.digitalemcc.com>**CERTIFICATE OF COMPLIANCE**
FCC Part 22 & 24 CertificationDates of Tests: January 16 ~25
Test Report S/N:DR50110801AQ
Test Site : DIGITAL EMC CO., LTD.

FCC ID.

NPQK2000

APPLICANT

Telian Corporation

Classification	:	Licensed Portable Transmitter Held to Ear (PCE)
FCC Rule Part(s)	:	§22(H), §24(E), §2
EUT Type	:	GSM850 / PCS1900 Dual Band GPRS Terminal Equipment with Bluetooth
Model name	:	E3500
Brand name	:	Kyocera
Serial number	:	Identical prototype
TX Frequency Range	:	824.2 ~ 848.8 MHz (GSM850) / 1850.2 ~ 1909.8 MHz (PCS1900)
RX Frequency Range	:	869.2 ~ 893.8 MHz (GSM850) / 1930.2 ~ 1989.8 MHz (PCS1900)
Max. RF Output Power	:	0.454 W ERP GSM850
	:	0.774 W EIRP PCS1900
Max. SAR Measurement	:	0.363 mW/g GSM850 Head SAR // 1.040 mW/g GSM850 GPRS Body SAR
	:	0.570 mW/g PCS1900 Head SAR // 0.853 mW/g PCS1900 GPRS Body SAR
Date of Issue	:	January 30, 2008

TABLE OF CONTENTS

◆	CONFIDENTIALITY LETTER(S)	
◆	AUTHOLIZATION LETTER	
◆	TEST REPORT	
	1 SCOPE	3
	2 INTRODUCTION	4
	3 TEST REPORT	5
	3.1 SUMMARY OF TEST	5
	3.2 POWER OUTPUT	6
	3.3 OCUPIED BANDWIDTH	13
	3.4 OCCUPIED BANDWIDTH EMISSION LIMIT	17
	3.5 SPURIOUS EMISSION AT ANT. TERMINAL	23
	3.6 FIELD STRENGTH OF SPURIOUS RADIATION	33
	3.7 FREQUENCY STABILITY	40
	4 TEST EQUIPMENT	45
	5 EMISSION DESIGNATOR	47
	6 CONCLUSION	48
◆	PART LOCATION	
◆	FCC ID LABEL & LOCATION	
◆	TEST SETUP PHOTOGRAPHS	
◆	EXTERNAL PHOTOGRAPHS	
◆	INTERNAL PHOTOGRAPHS	
◆	BLOCK DIAGRAM(S)	
◆	SCHEMATIC DIAGRAM(S)	
◆	OPERATIONAL DESCRIPTION	
◆	PARTS LIST	
◆	USER'S MANUAL	
◆	SAR TEST REPORT	
◆	SAR VALIDATION PLOTS	
◆	SAR TEST PLOTS	
◆	SAR TEST SETUP PHOTOGRAPHS	
◆	PROBE CALIBRATION	
◆	DIPOLE CALIBRATION	

MEASUREMENT REPORT

1. Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

§2.1033 General Information

Applicant: Telian Corporation

Address: 5th FL. Namjeun Bldg, 53-3 Haan-Dong, Kwangmyung-Si, Kyunggi-Do, Korea

Attention: Wayne Hwang (Senior Manager)

- FCC ID: NPQK2000
- Quantity: The mass product
- Tx Freq. Range: 824.2 ~ 848.8 MHz (GSM850) / 1850.2 ~ 1909.8 MHz (PCS1900)
- Rx Freq. Range: 869.2 ~ 893.8 MHz (GSM850) / 1930.2 ~ 1989.8 MHz (PCS1900)
- Max. Power Rating: 0.454W ERP GSM850
0.774W EIRP PCS1900
- FCC Classification(s): Licensed Portable Transmitter Held to Ear (PCE)
- Equipment (EUT) Type: GSM850 / PCS1900 Dual Band Terminal Equipment with bluetooth
- Modulation(s): GMSK
- Frequency Tolerance: ± 0.00025 % (2.5ppm)
- FCC Rule Part(s): §22(H), §24(E), §2
- Dates of Tests: January 16 ~ 25, 2008
- Place of Tests: DIGITAL EMC
- Test Report S/N: DR50110801AQ

2. General Information

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

<http://www.digitalemc.com> E-mail : demc@unitel.co.kr

Tel: +82-31-321-2664 Fax: +82-31-321-1664

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

This laboratory is accredited by NVLAP for NVLAP Lab. Code : 200559-0.

Test operator: engineer

January 21, 2008

D.C.Cha



Data

Name

Signature

Report Reviewed By: manager

January 21, 2008

Harvey Sung



Data

Name

Signature

Ordering party:

Company name : Telian Corporation
Address : 5th FL, Namjeun Bldg , 53-3 , Haan-Dong,
Zipcode : 423-060
City/town : Kwangmyung-Si City, Kyonggi do
Country : KOREA
Date of order : January 16, 2008

3. Test Report

3.1 Summary of test

FCC Part Section(s)	Parameter	Status (note 1)
22.913(a) / 24.232(b), 2.1046	Power Output	C
22.917 / 24.238, 2.1049(h)(i)	Occupied Bandwidth	C
22.917(b) / 24.238(b)	Emission Bandwidth	C
22.917 / 24.238 2.1051	Emission Limits Transmitter	C
2.1053 (a)	Field Strength of Spurious Radiation	C
2.1055	Frequency Stability	C
Note 1: C= Complies NC=Not Complies NT=Not Tested NA=Not Applicable		

The sample was tested according to the following specification:

FCC Parts §22(H), §24(E), §2; ANSI C-63.4-2003

3.2 Power Output

FCC ID	: NPQK2000
Specification	: 47 CFR 2.1046 (a)
Tested Frequency	: 824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- During the process of testing, the EUT was controlled via Radio Communication tester to ensure max. Power transmission and proper modulation.
- Power output was measured at the RF output terminals when the transmitter is adjusted in accordance with Communication tester (or the tune-up procedure).

Measurement Data:

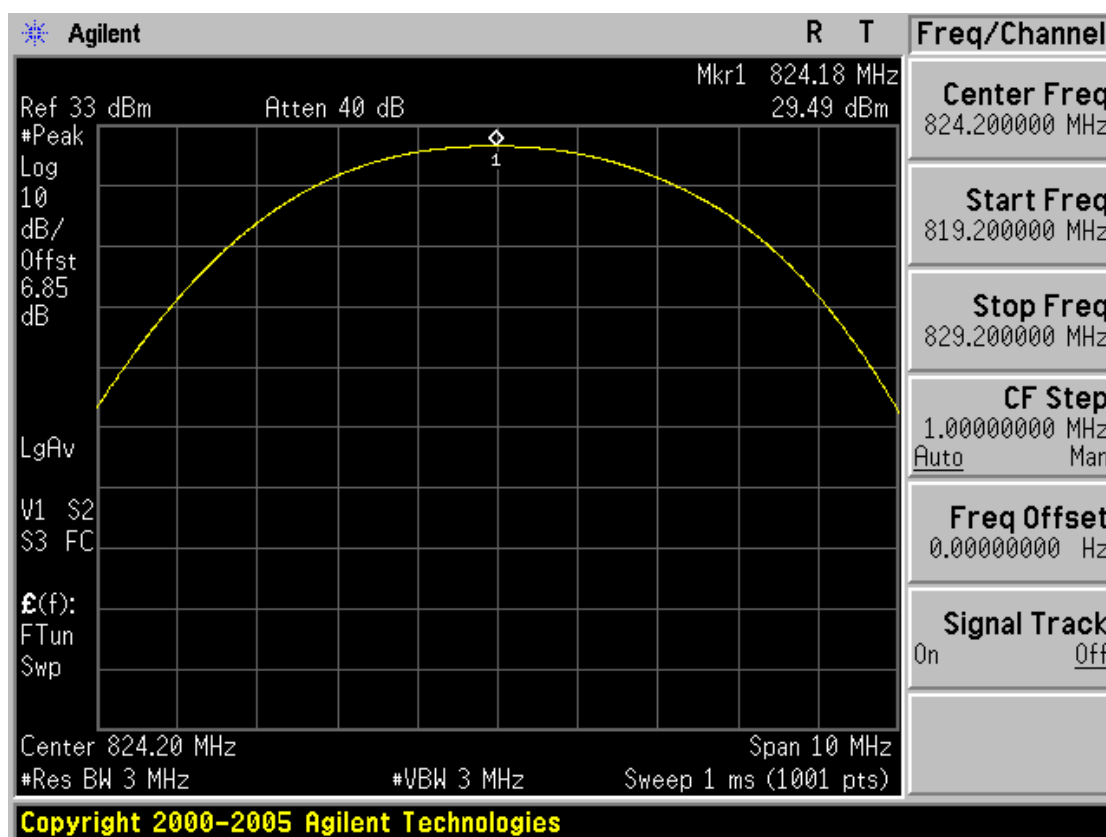
GSM850

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 5
		(dBm)
128	824.18	29.49
190	836.57	29.44
251	848.72	29.39

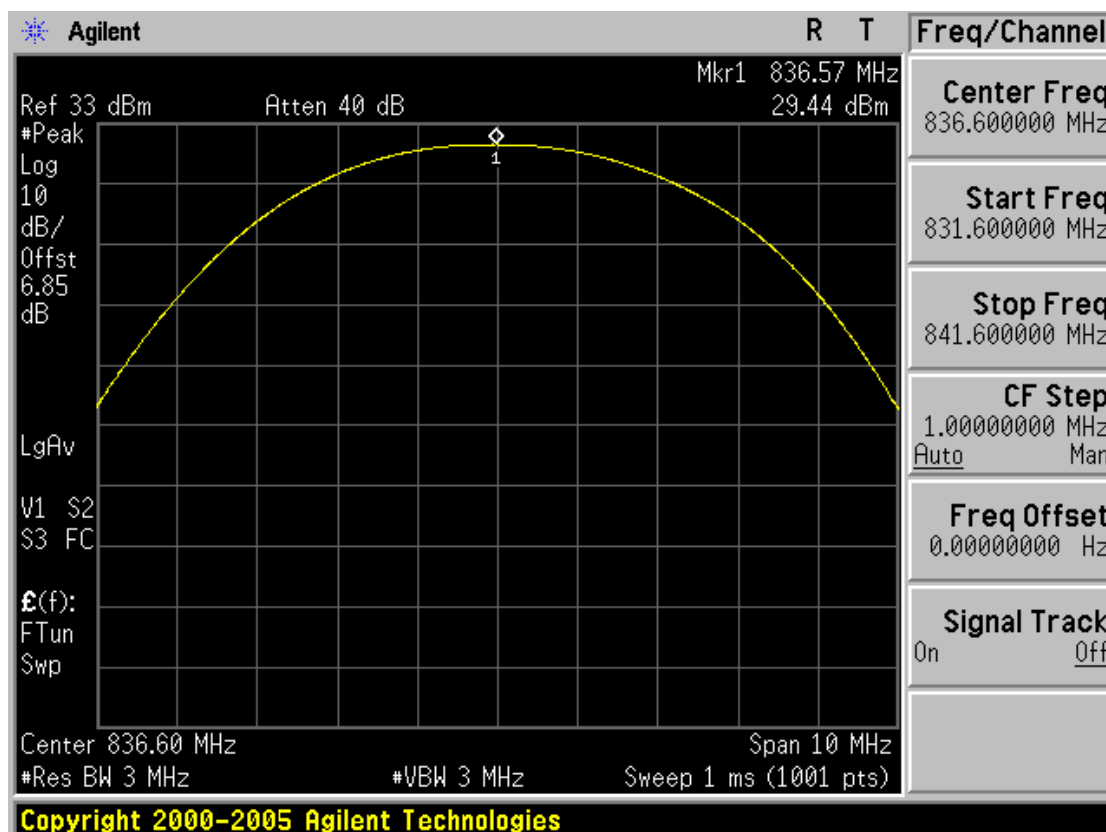
PCS1900

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 0
		(dBm)
512	1850.2	28.35
661	1880.0	28.00
810	1909.8	28.02

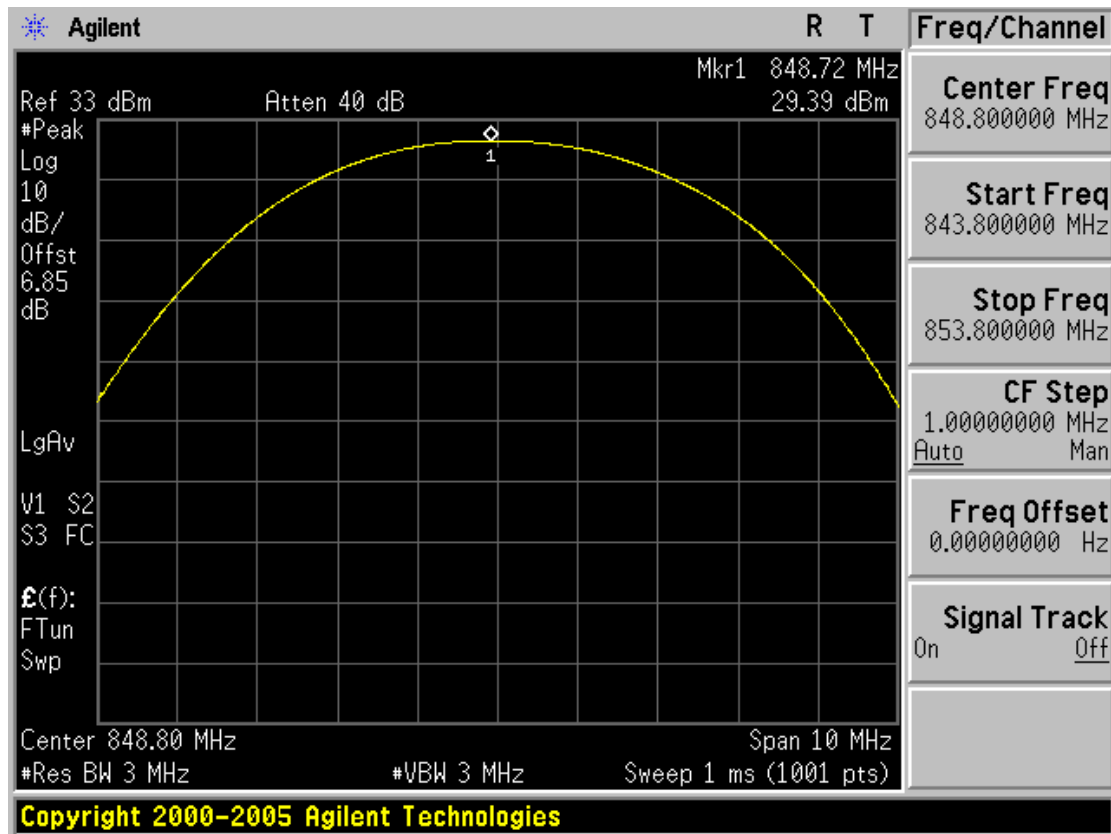
POWER OUT. GSM850 Ch.128



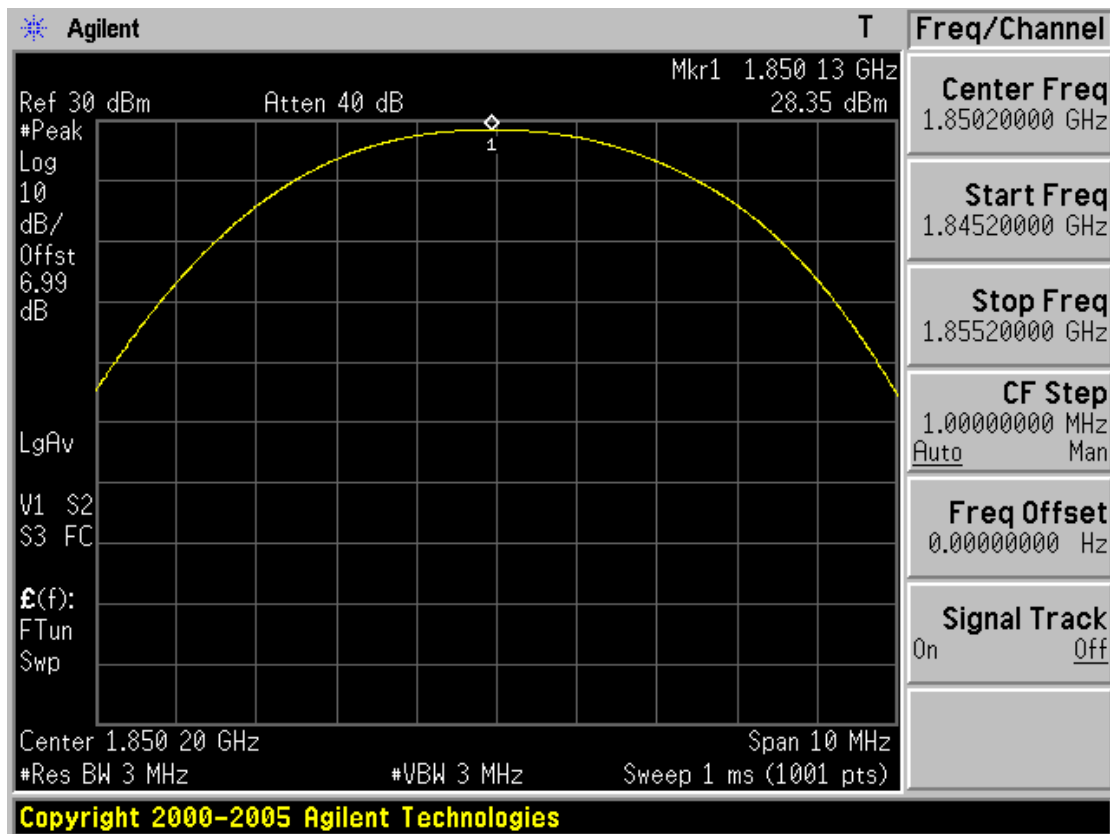
POWER OUT. GSM850 Ch.190



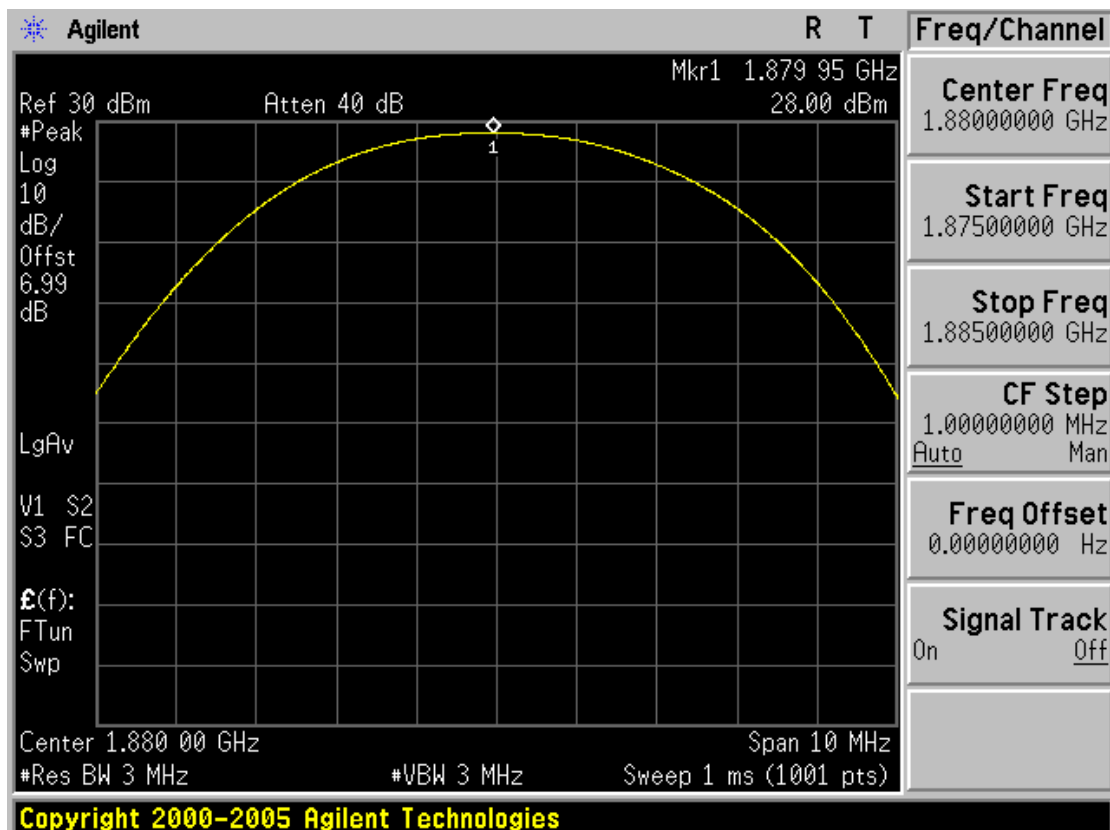
POWER OUT. GSM850 Ch.251



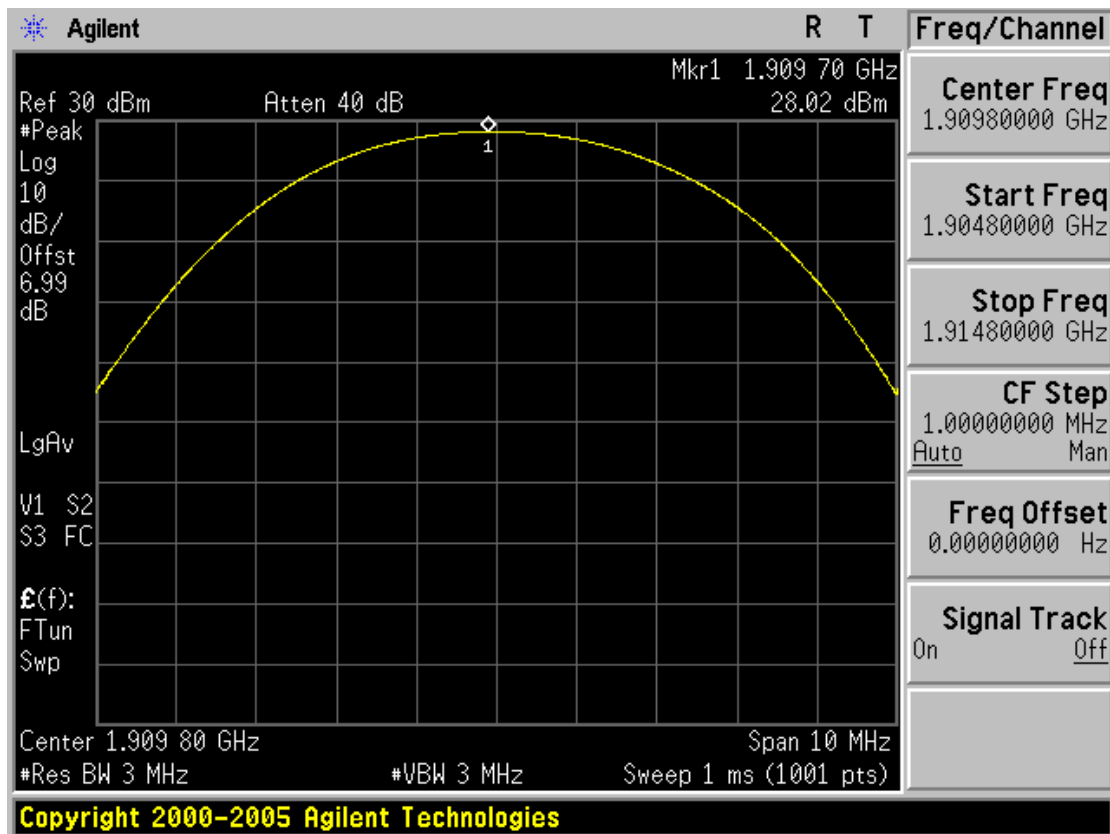
POWER OUT. PCS1900 Ch.512



POWER OUT. PCS1900 Ch.661



POWER OUT. PCS1900 Ch.810



ERP (GSM850)

FCC ID : NPQK2000
 Specification : 47 CFR 22.913(a)
 Tested Frequency : 824.2MHz, 836.6MHz and 848.8MHz for GSM850
 RBW=VBW : 3MHz

Measurement Procedure:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C 2004

The EUT was placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

Measurement Data:

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 5					
		Ref. level (dBm)	Pol. (H/V)	ERP (dBm)	ERP (W)	Power Supply	Note.
128	824.2	-9.98	H	26.15	0.412	Battery	-
190	836.6	-9.25	H	26.46	0.443	Battery	-
251	848.8	-9.98	H	26.57	0.454	Battery	-

EIRP (PCS1900)

FCC ID : NPQK2000
 Specification : 47 CFR 24.232(b)
 Tested Frequency : 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900
 RBW=VBW : 3MHz

Measurement Procedure:

Effective Radiated Power Output Measurements by Substitution Method

according to ANSI/TIA/EIA-603-C 2004

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A Horn antenna was substituted in place of the EUT. This Horn antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the Horn antenna is measured. The difference between the gain of the horn and an isotropic antenna is taken into consideration and the EIRP is recorded.

Measurement Data:

Channel	Frequency (MHz)	TEST CONDITIONS Power Step: 0						
		Ref. level (dBm)	Pol. (H/V)	ANT GAIN	EIRP (dBm)	EIRP (W)	Battery	Note
512	1850	-10.65	H	8.42	27.37	0.546	Battery	-
661	1879	-10.14	H	8.50	28.85	0.767	Battery	-
810	1909	-9.82	H	8.57	28.89	0.774	Battery	-

3.3 Occupied Bandwidth

FCC ID : **NPQK2000**
 Specification : 47 CFR 2.1049 (h)(i)
 Tested Frequency : 824.2MHz, 836.6MHz and 848.8MHz for GSM850
 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- The 99% power bandwidth was measured with a calibrated spectrum analyzer.
- Spectrum analyzer plots are included on the following pages.

Measurement Data:

GSM850

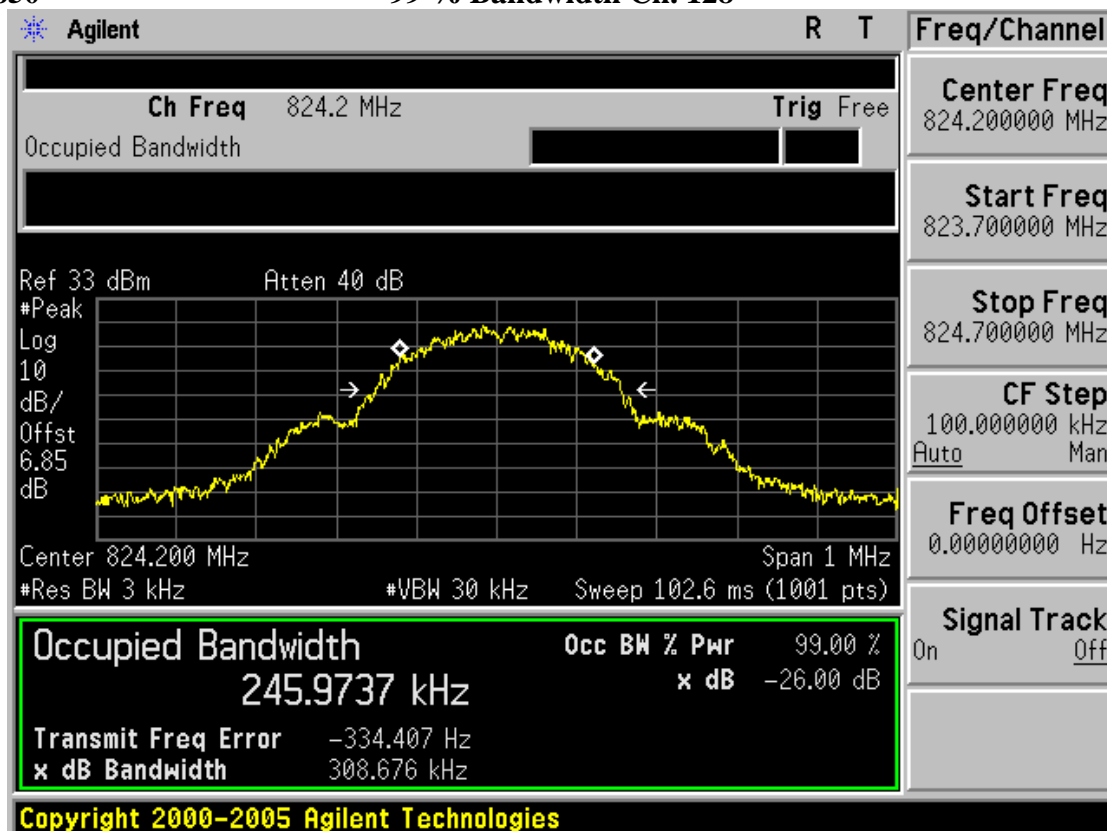
Channel	Frequency (MHz)	99% Bandwidth
		(kHz)
128	824.2	245.974
190	836.6	251.581
251	848.8	253.420

PCS1900

Channel	Frequency (MHz)	99% Bandwidth
		(kHz)
512	1850.2	249.395
661	1880.0	250.259
810	1909.8	249.291

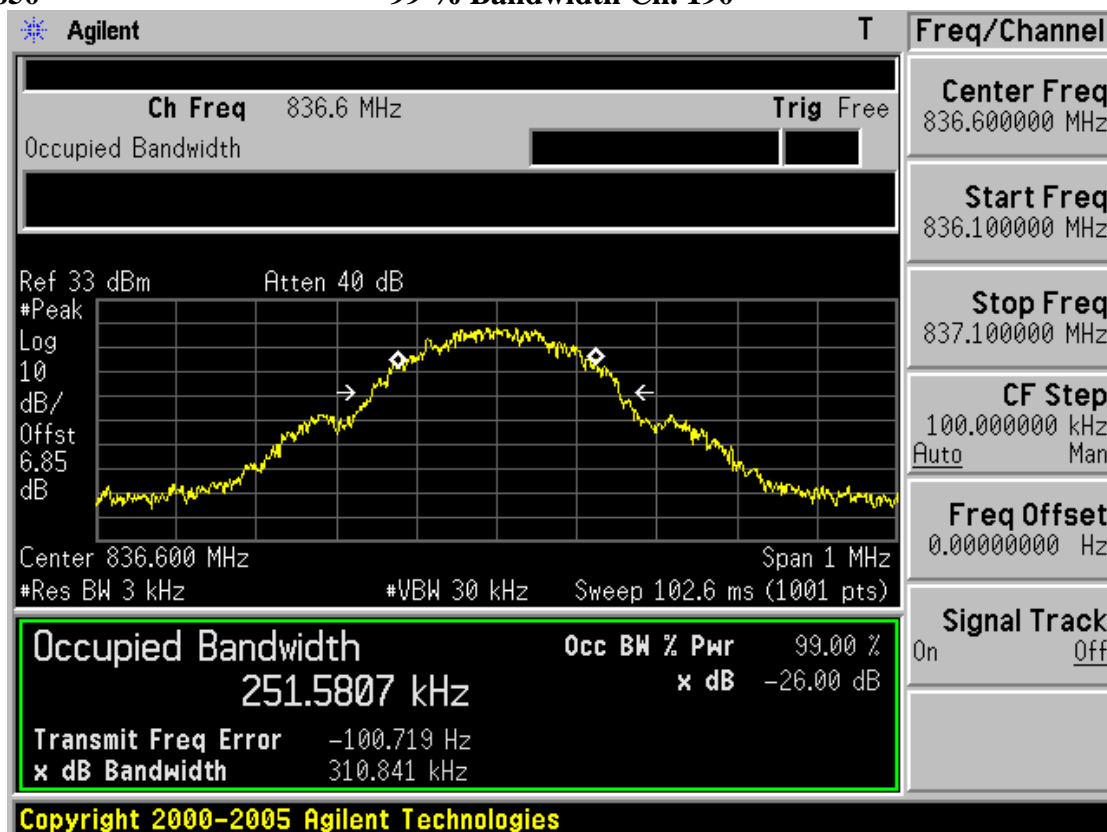
GSM850

99 % Bandwidth Ch. 128



GSM850

99 % Bandwidth Ch. 190



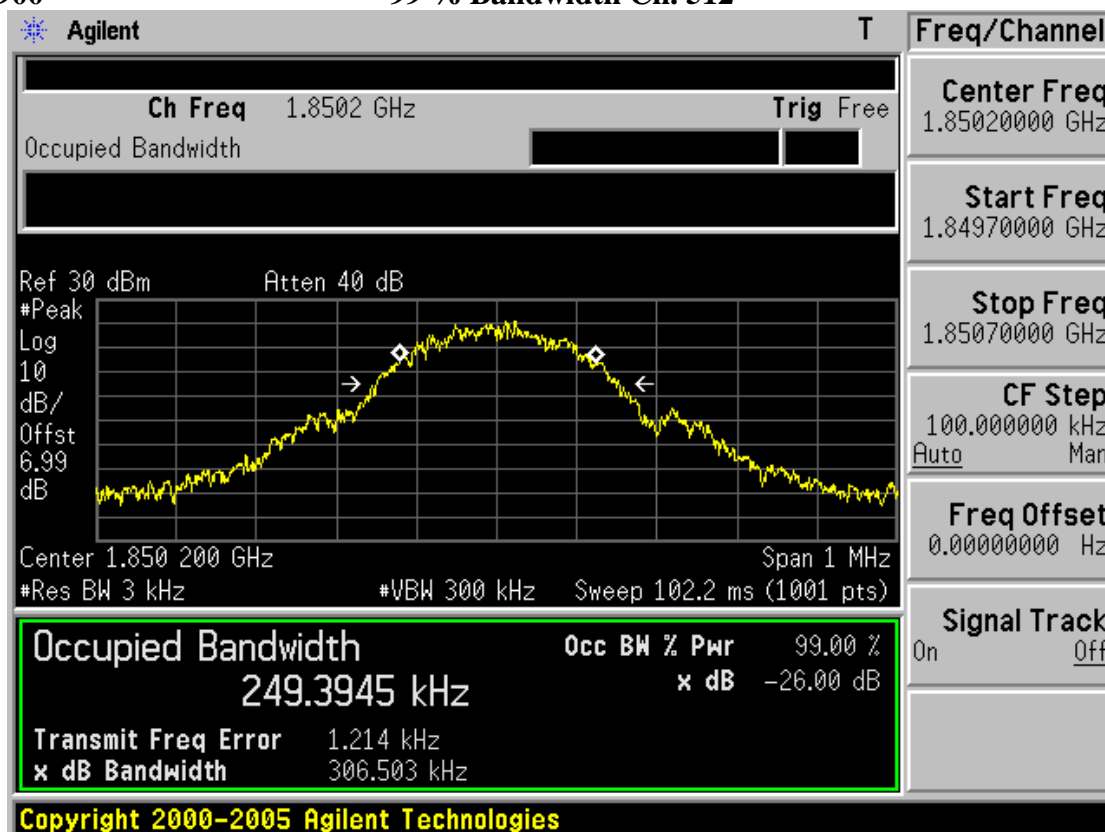
GSM850

99 % Bandwidth Ch. 251



PCS1900

99 % Bandwidth Ch. 512



PCS1900

99 % Bandwidth Ch. 661



PCS1900

99 % Bandwidth Ch. 810



3.4 Occupied Bandwidth Emission Limit

FCC ID	: NPQK2000
Specification	: 47 CFR 24.238(b)
Tested Frequency	: 824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- (a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least $43+10\log(P)$ dB.
- (b) Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1MHz or greater. However, in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26dB below the transmitter power.
- (c) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- Spectrum analyzer plots are included on the following pages.

Measurement Data:

GSM850

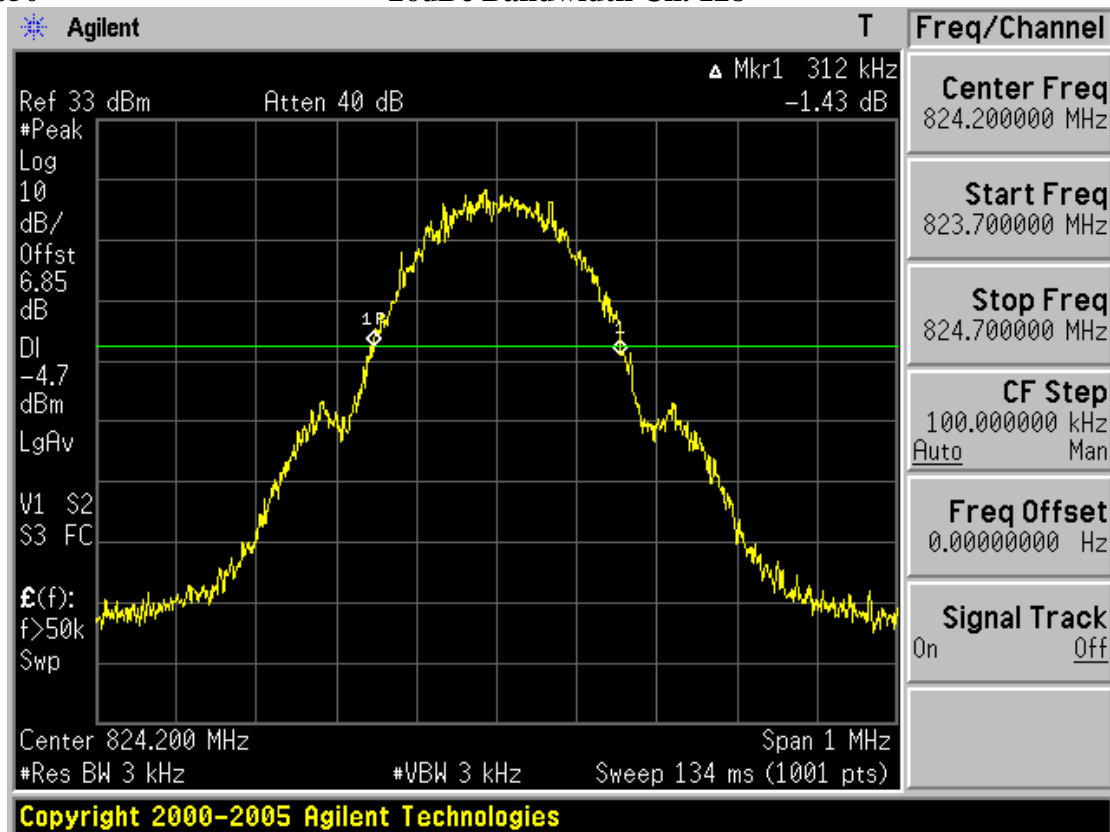
Channel	Frequency (MHz)	-26dBc Bandwidth
		(kHz)
128	824.2	312
190	836.6	315
251	848.8	317

PCS1900

Channel	Frequency (MHz)	-26dBc Bandwidth
		(kHz)
512	1850.2	316
661	1880.0	316
810	1909.8	314

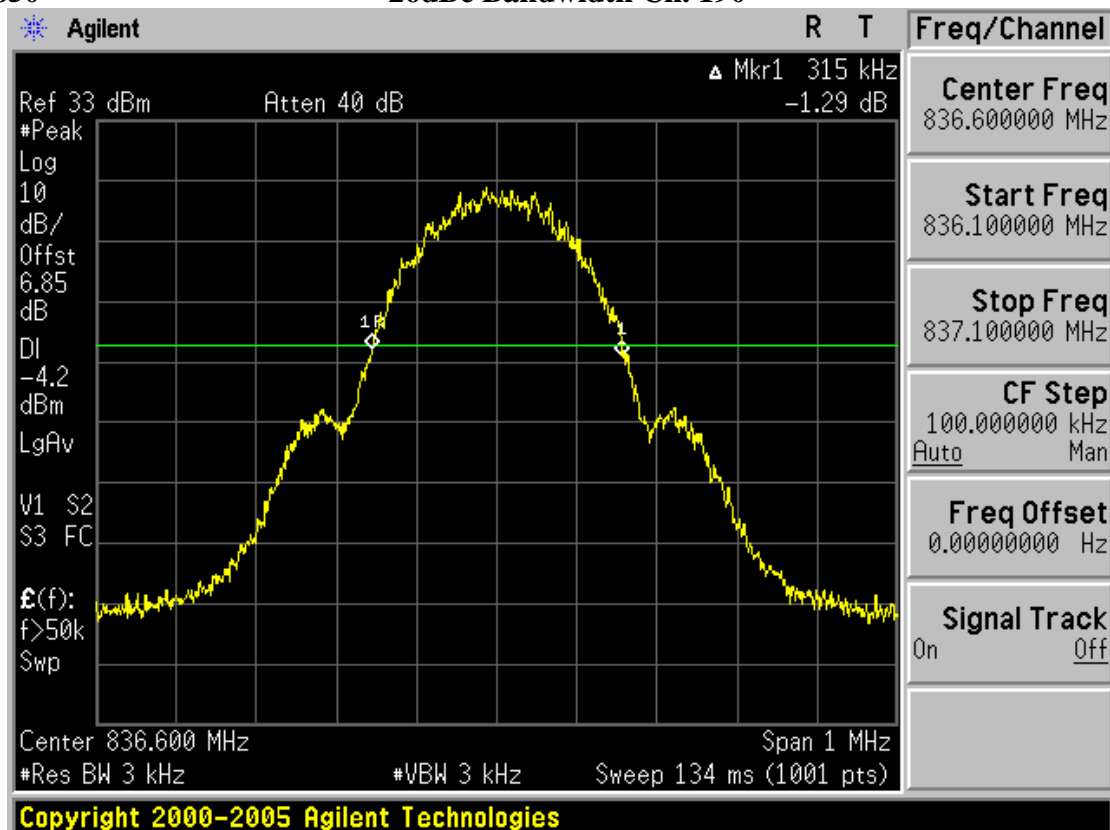
GSM850

-26dBc Bandwidth Ch. 128

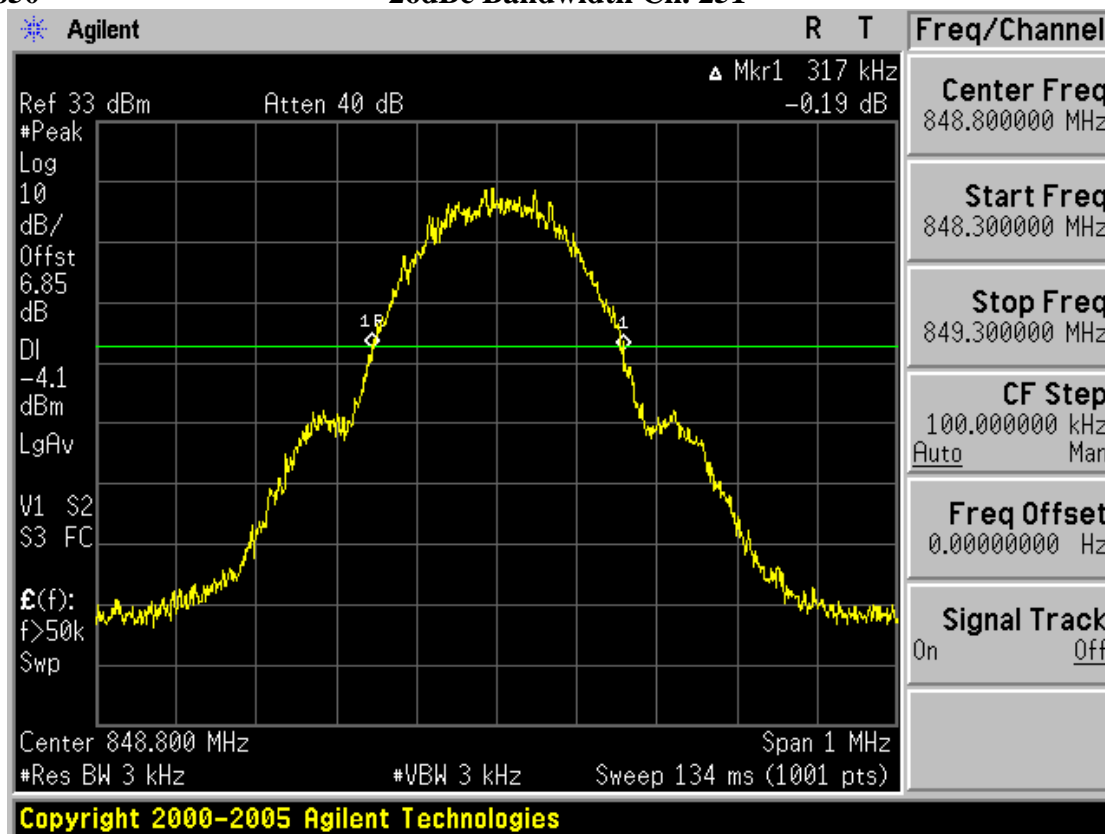


GSM850

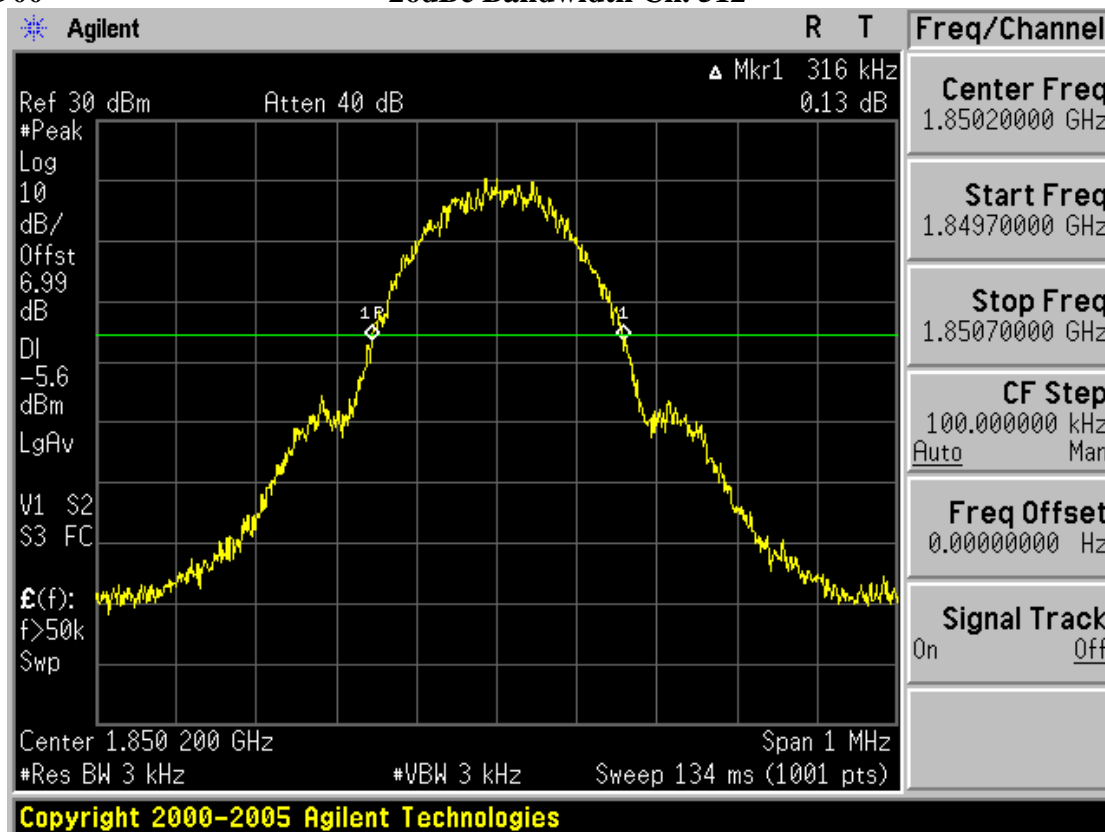
-26dBc Bandwidth Ch. 190



-26dBc Bandwidth Ch. 251

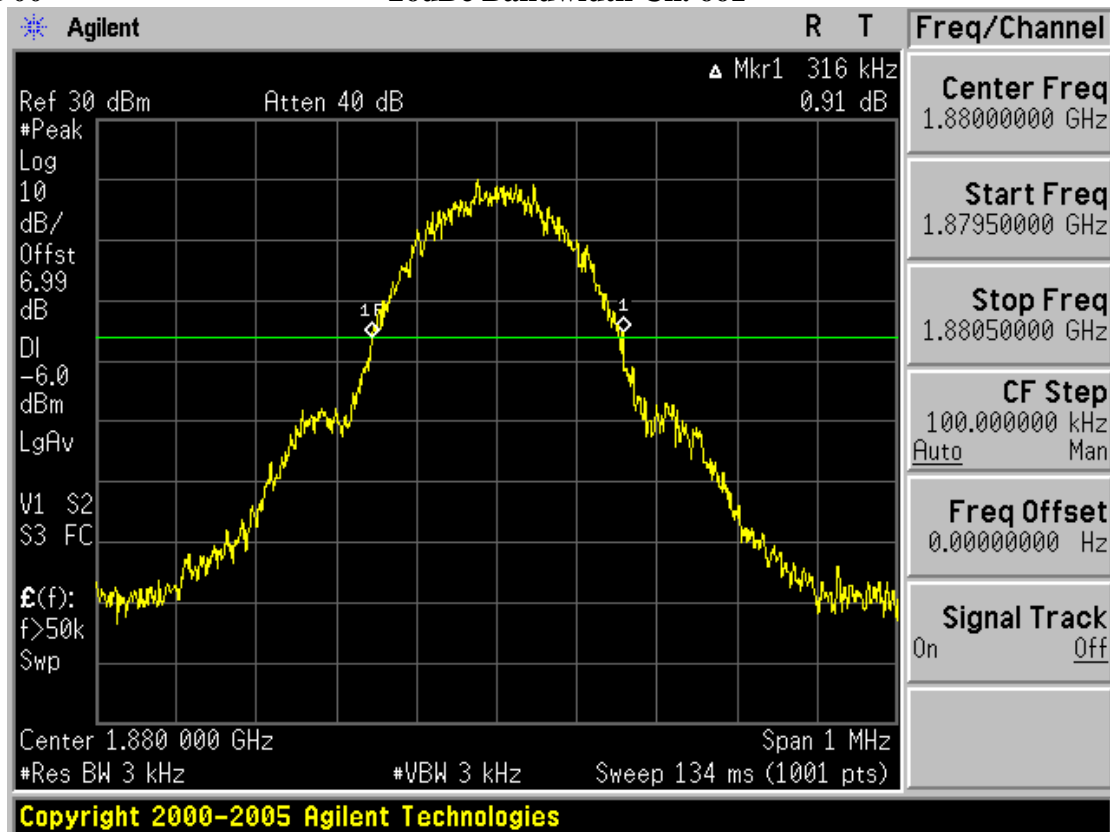


-26dBc Bandwidth Ch. 512



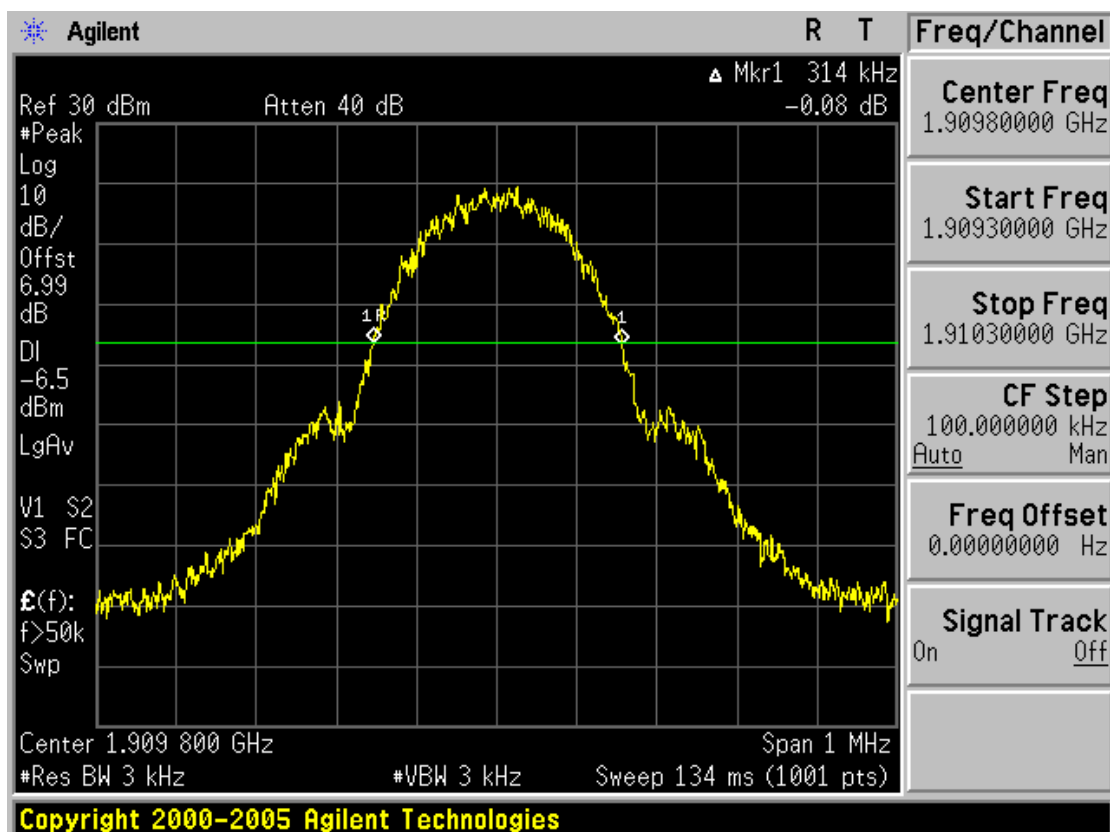
PCS1900

-26dBc Bandwidth Ch. 661



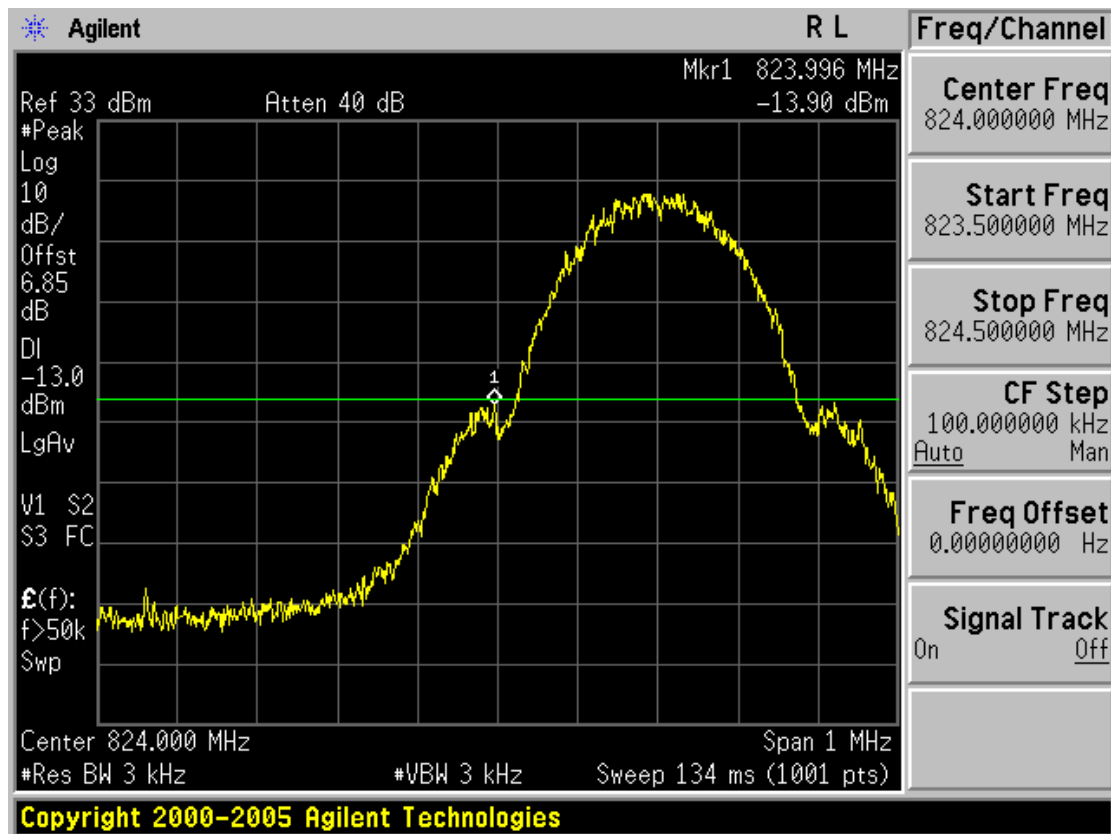
PCS1900

-26dBc Bandwidth Ch. 810



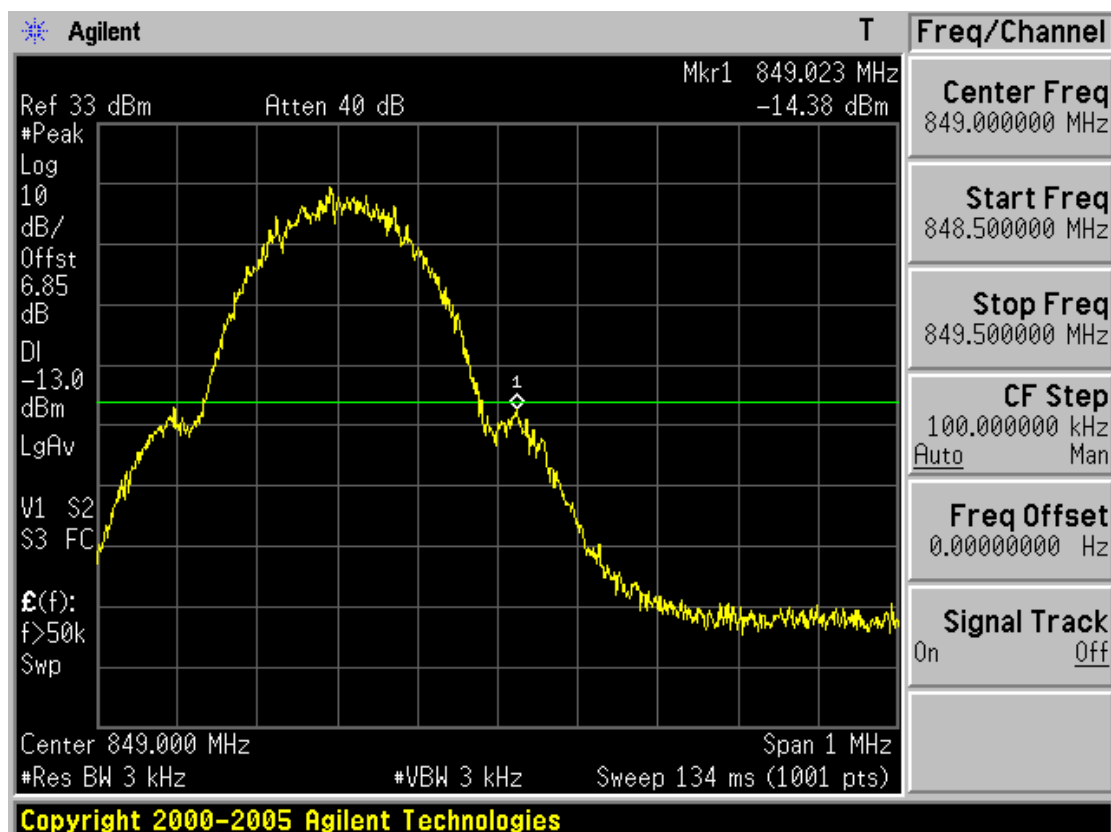
GSM850

Band Edge Ch. 128



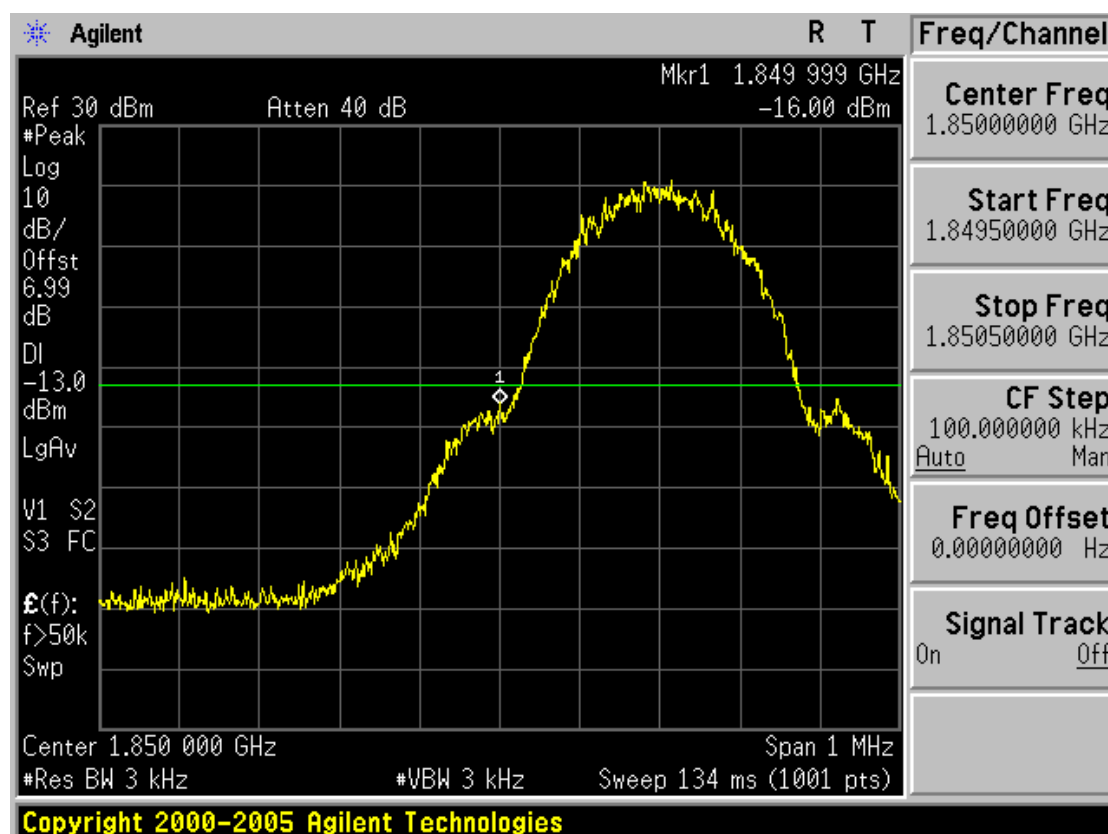
GSM850

Band Edge Ch. 251



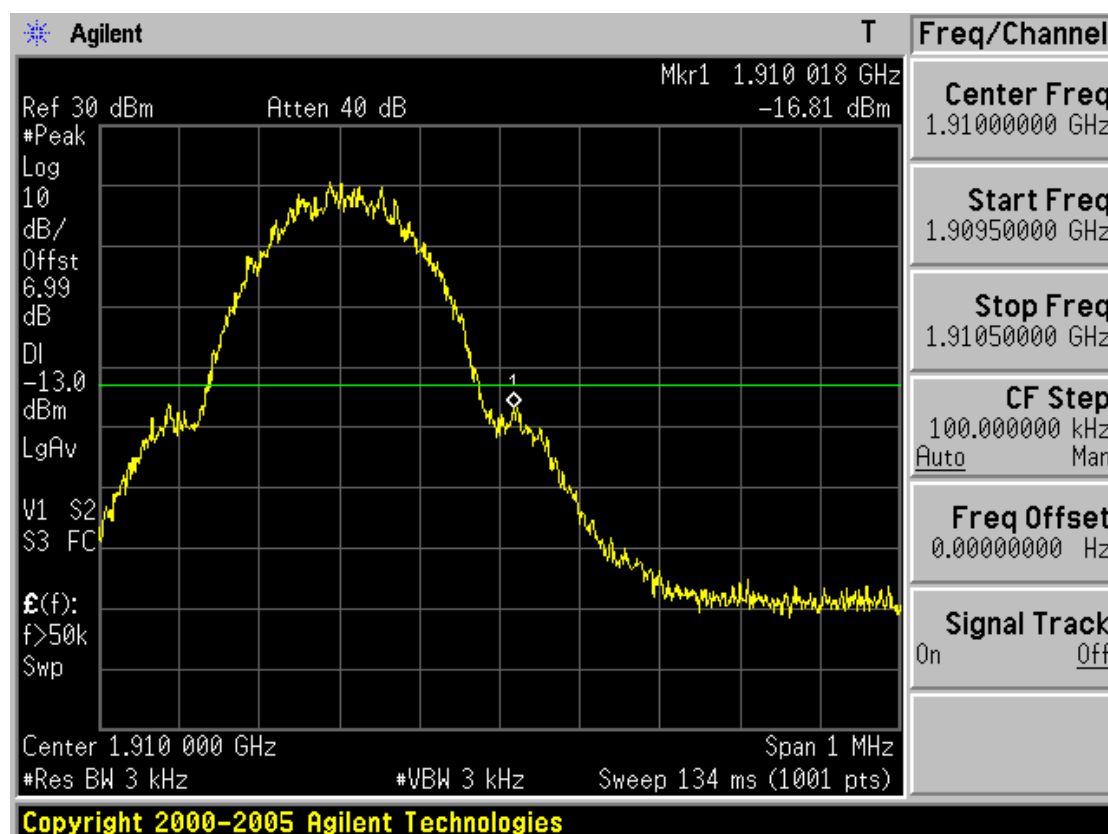
PCS1900

Band Edge Ch. 512



PCS1900

Band Edge Ch. 810



3.5 Spurious and Harmonic Emissions at Antenna Terminal

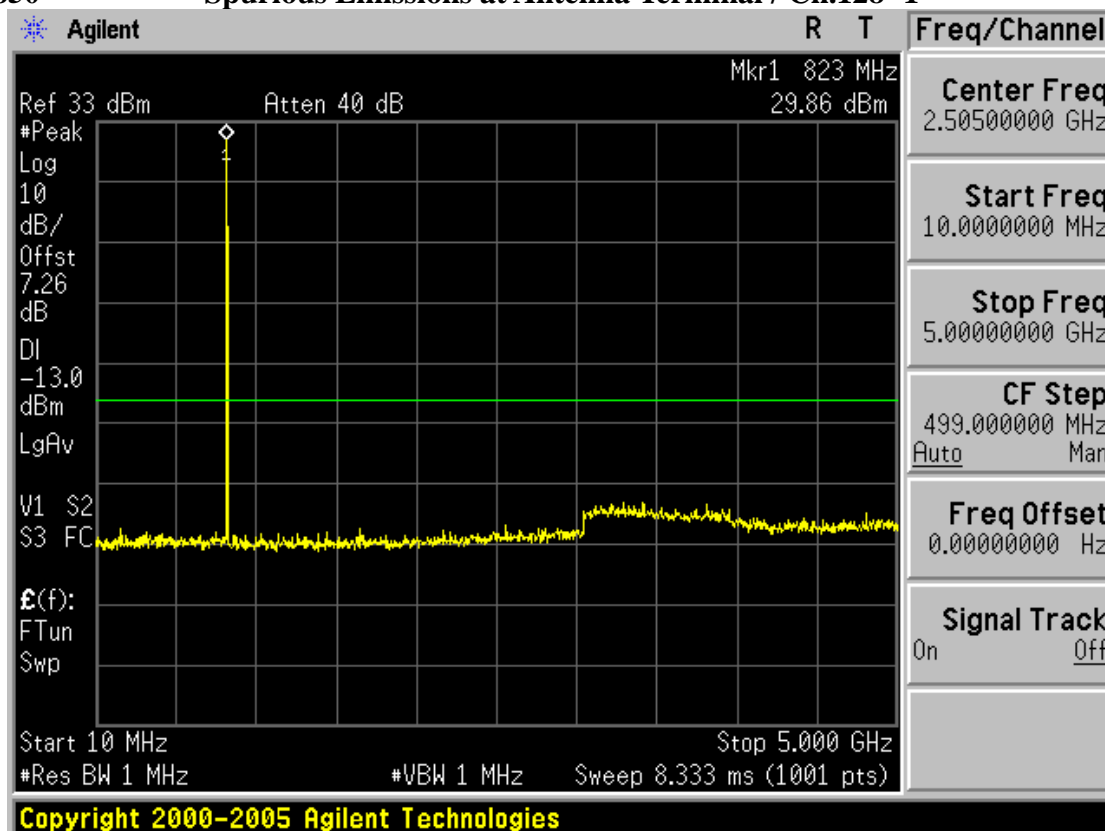
FCC ID	: NPQK2000
Specification	: 47 CFR 2.1051, 24.238(a)
Tested Frequency	: 824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer.
- The spectrum is scanned from the lowest frequency generated in the equipment up to 10'th harmonics of the highest frequency.
- Spectrum analyzer plots are included on the following pages.

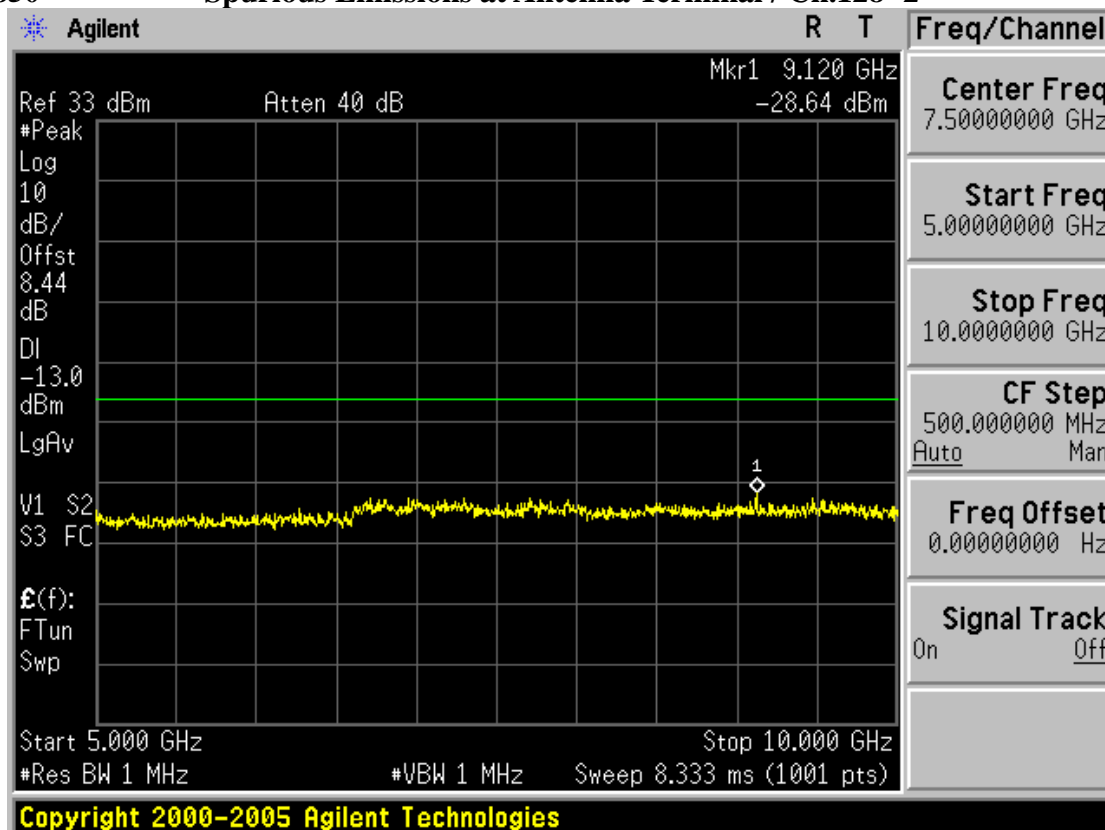
GSM850

Spurious Emissions at Antenna Terminal / Ch.128 -1



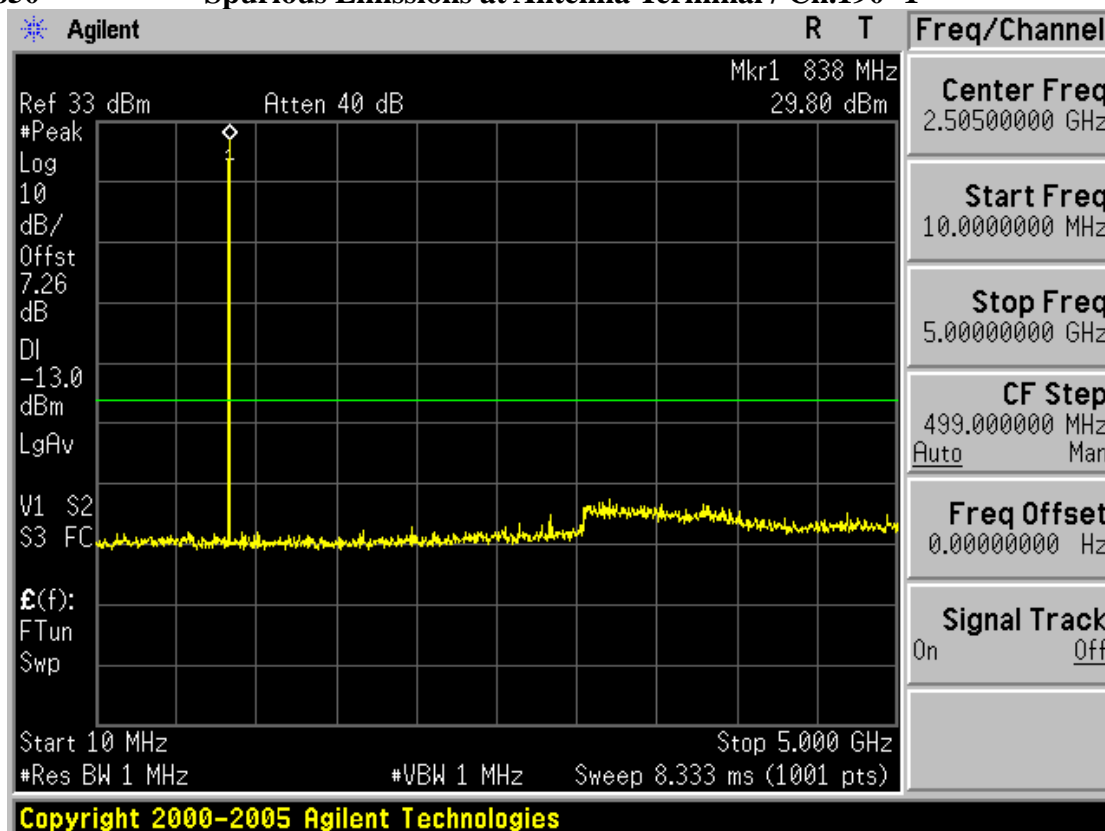
GSM850

Spurious Emissions at Antenna Terminal / Ch.128 -2



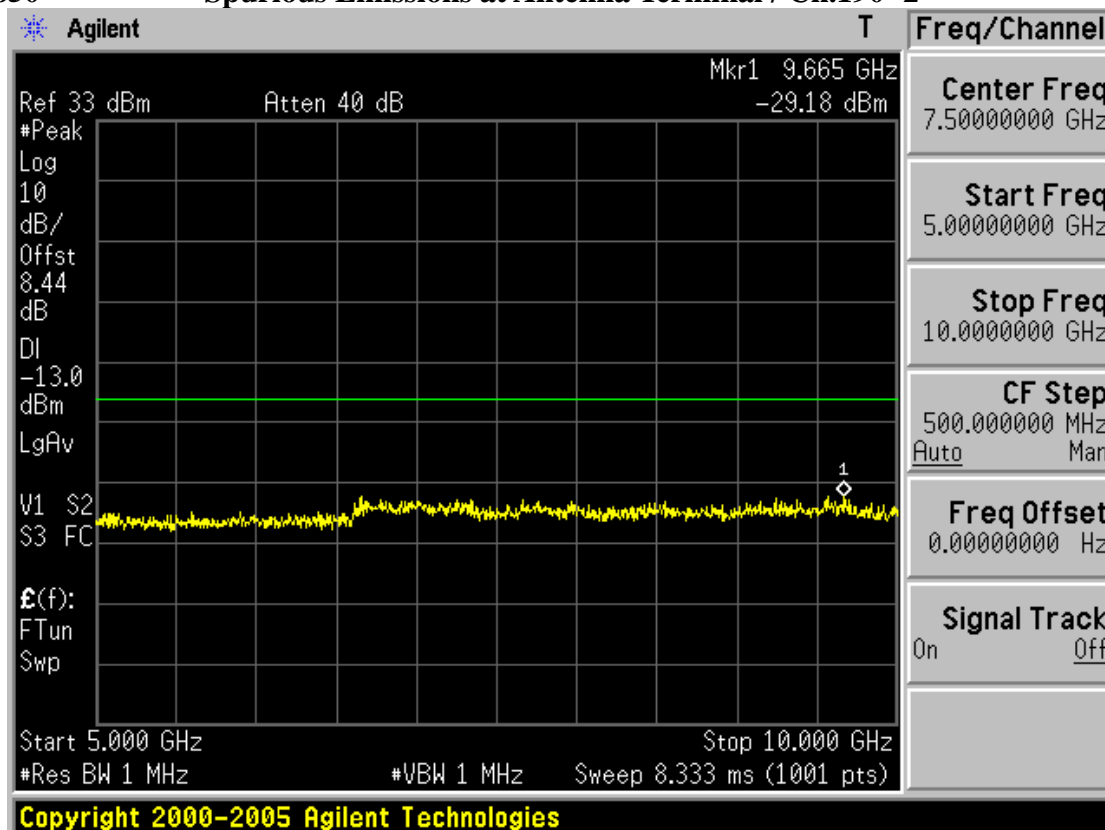
GSM850

Spurious Emissions at Antenna Terminal / Ch.190 -1



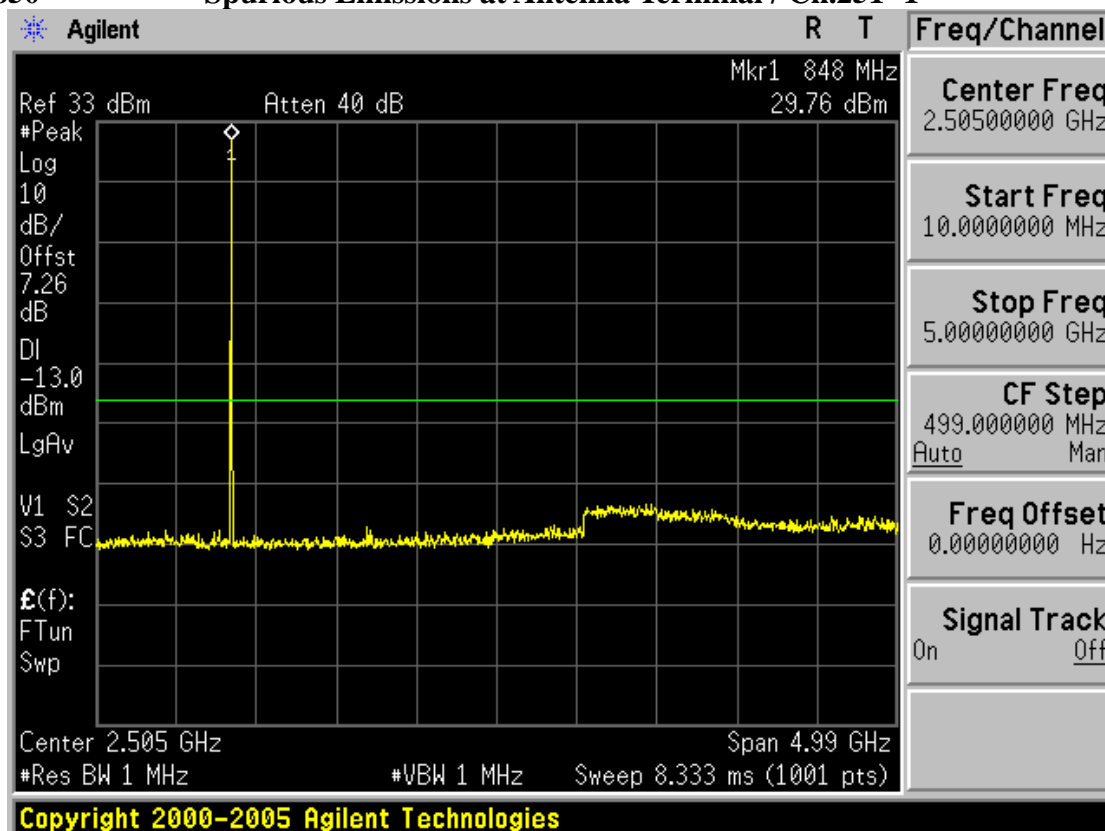
GSM850

Spurious Emissions at Antenna Terminal / Ch.190 -2



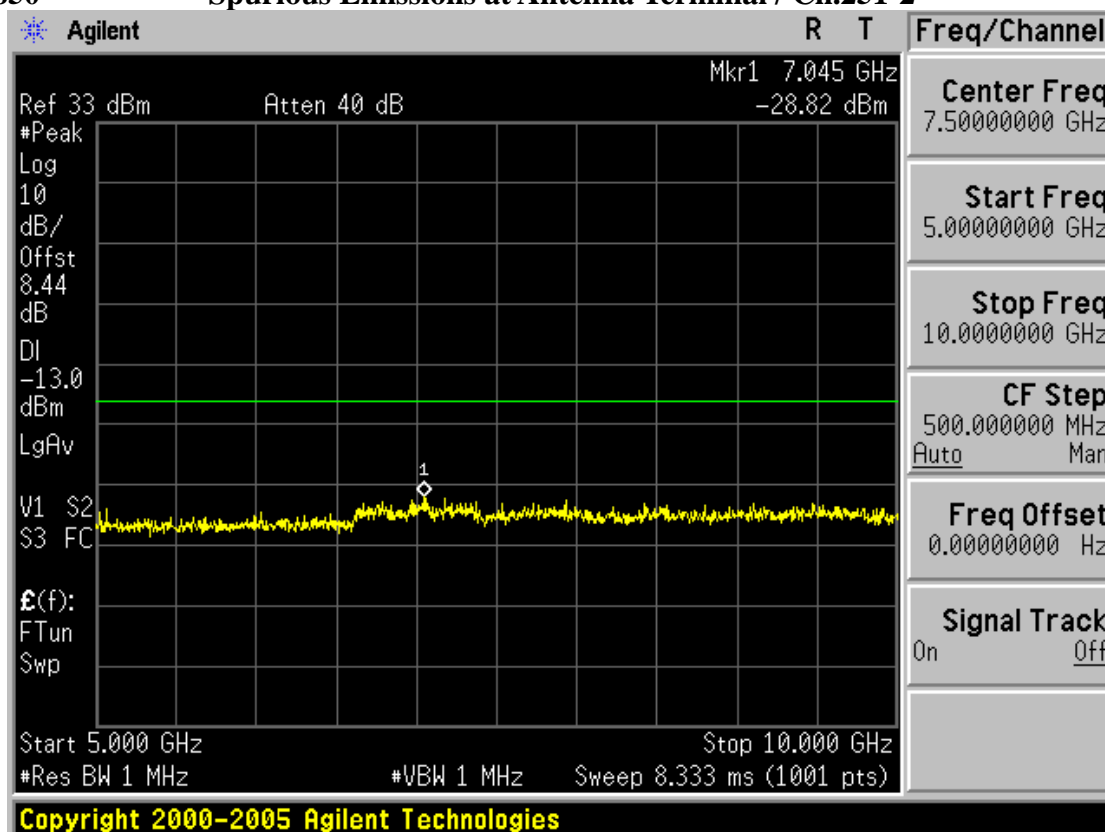
GSM850

Spurious Emissions at Antenna Terminal / Ch.251 -1



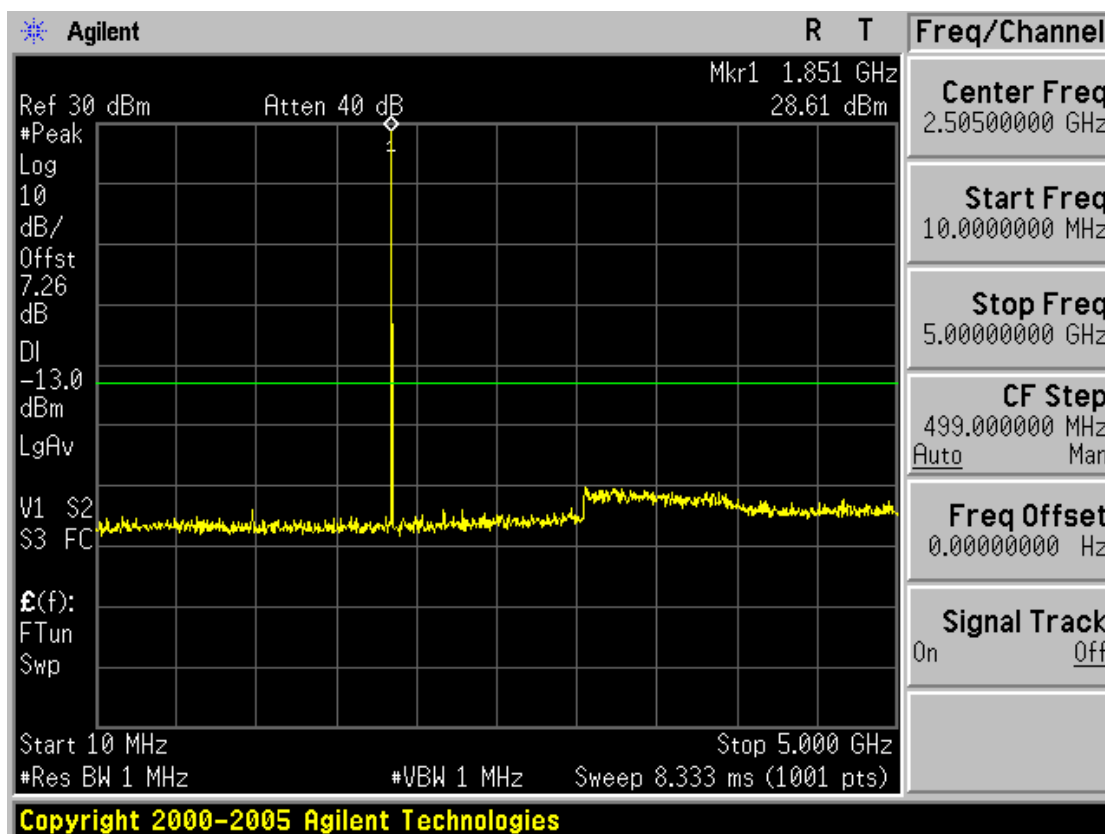
GSM850

Spurious Emissions at Antenna Terminal / Ch.251-2



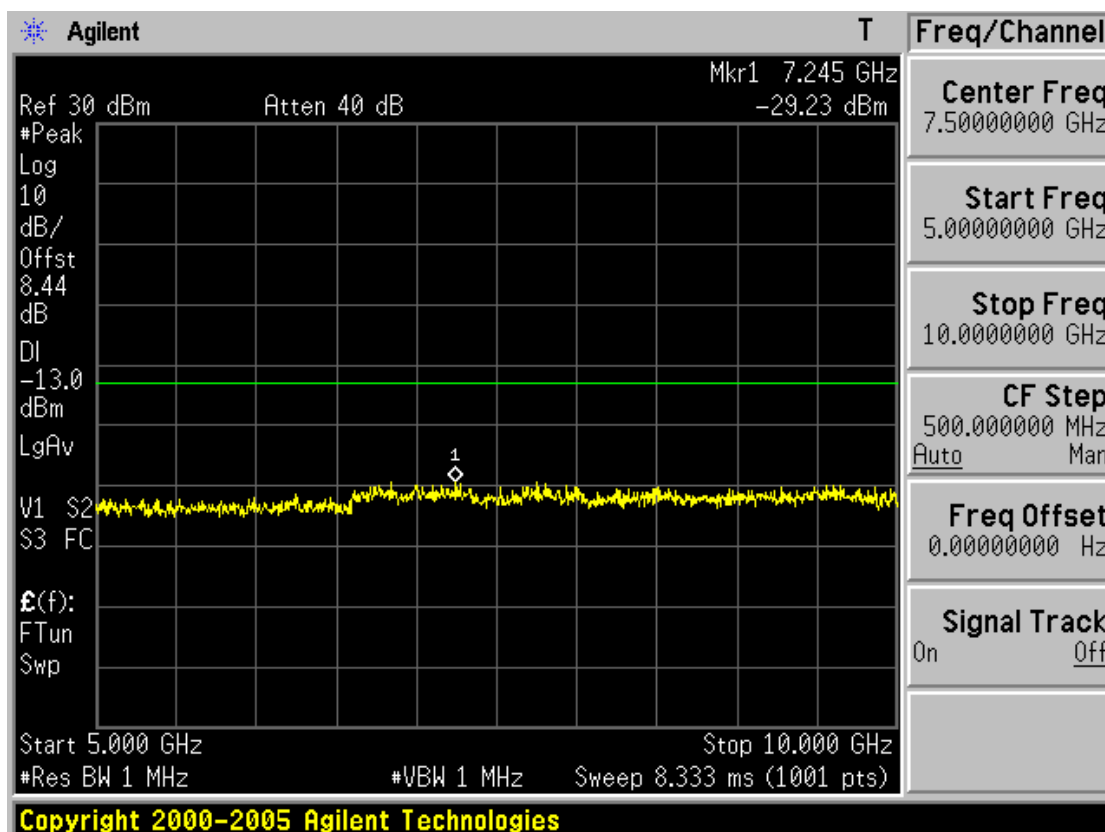
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -1



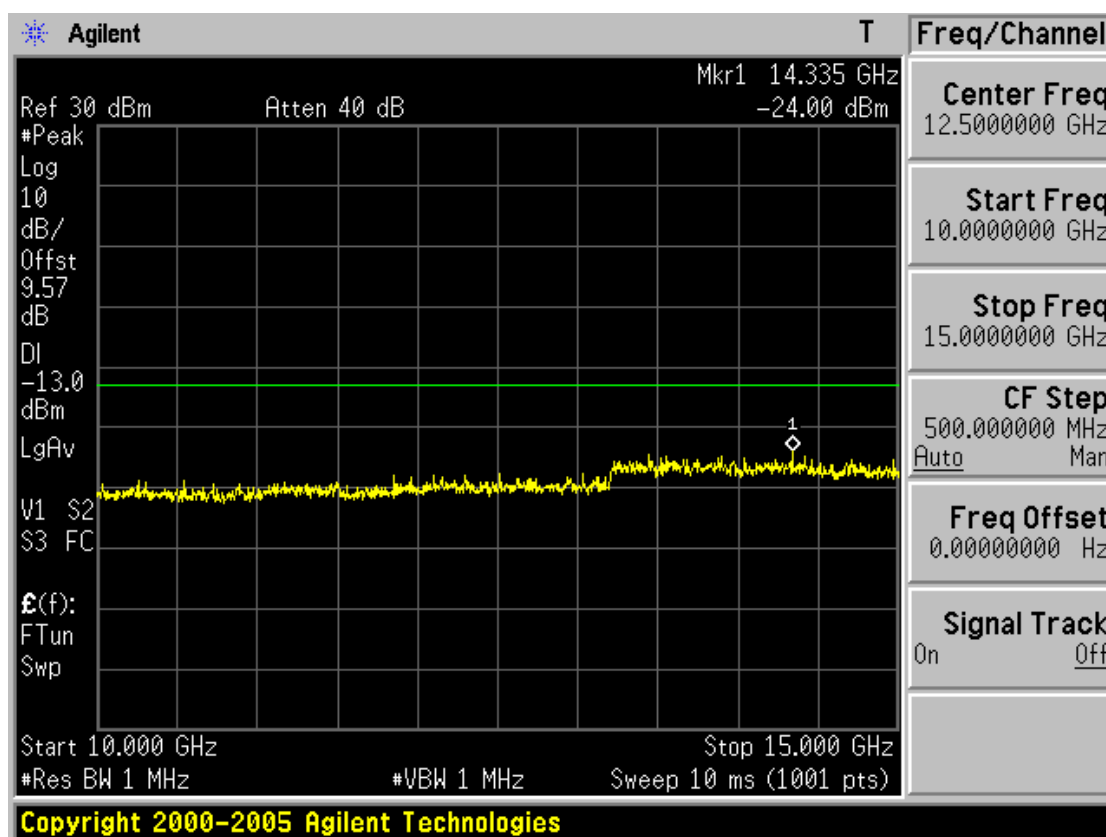
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -2



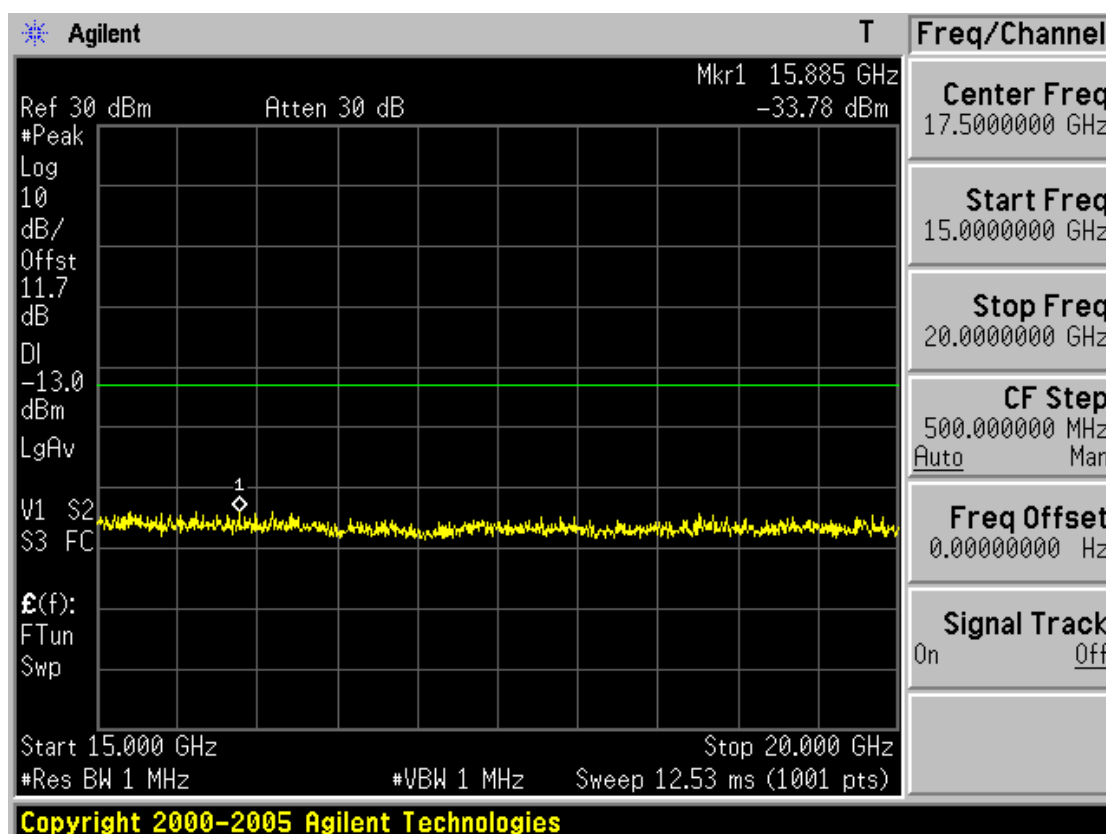
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -3



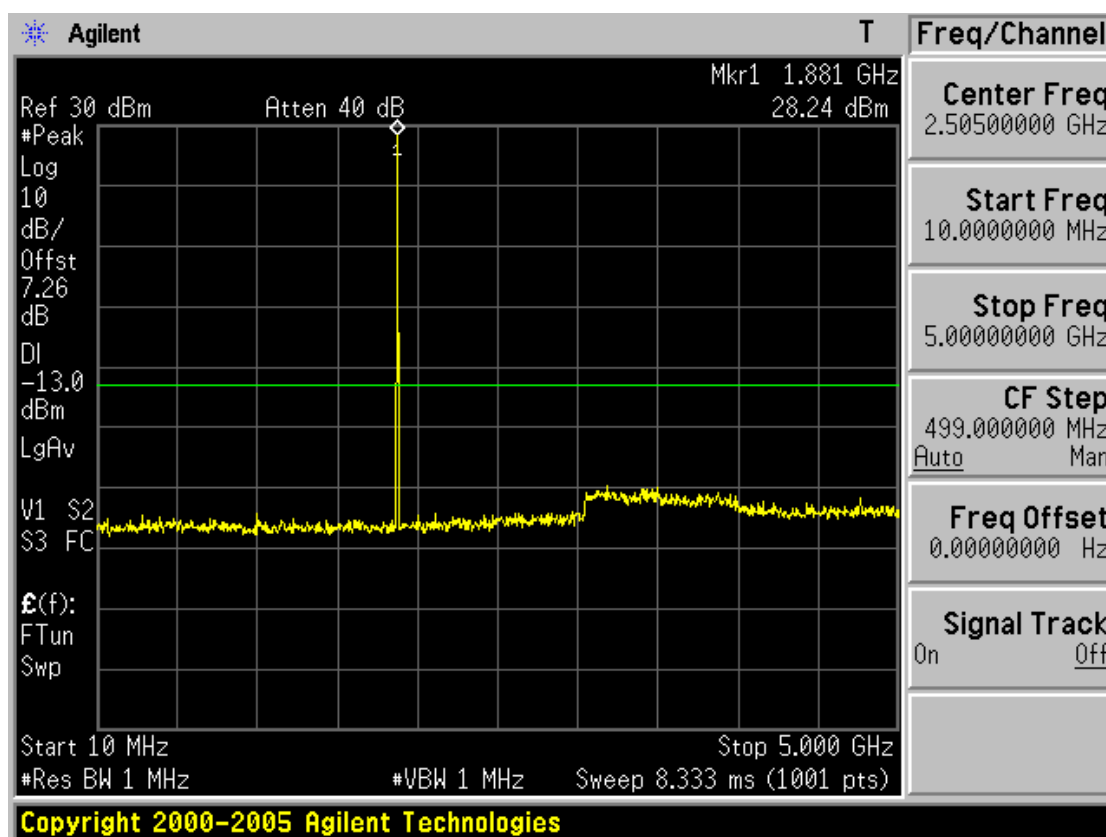
PCS1900

Spurious Emissions at Antenna Terminal / Ch.512 -4



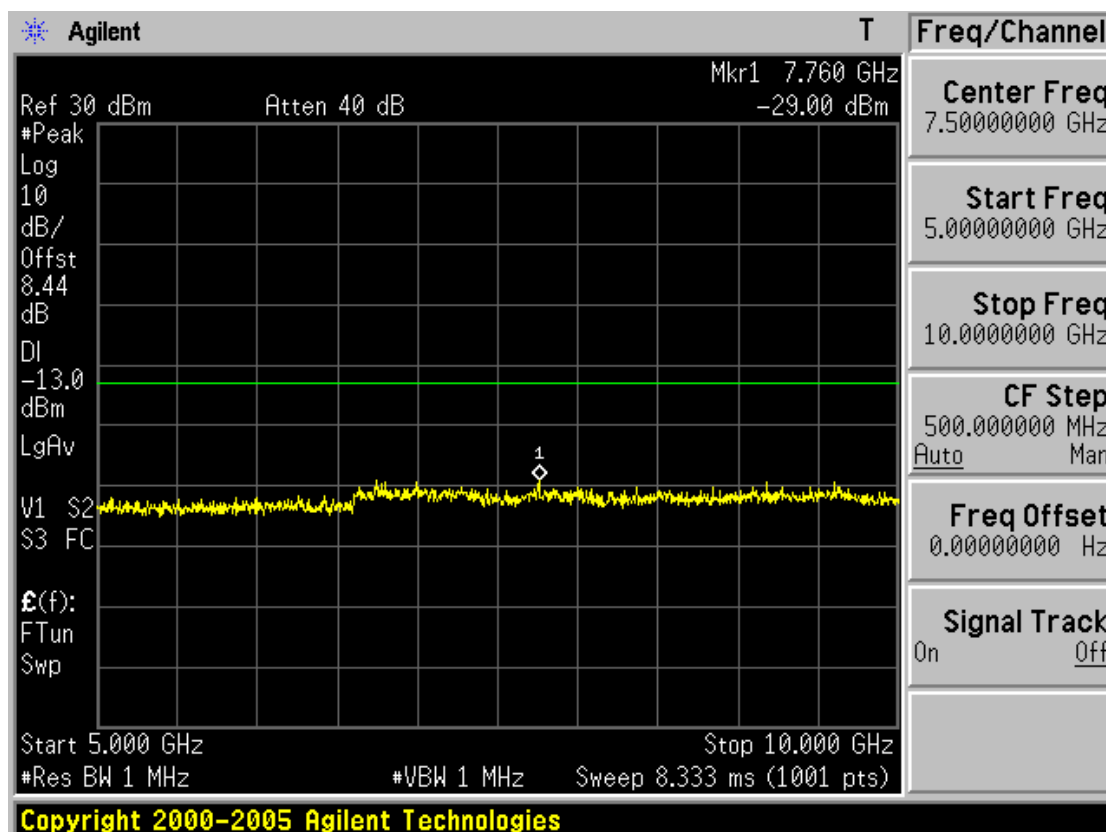
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -1



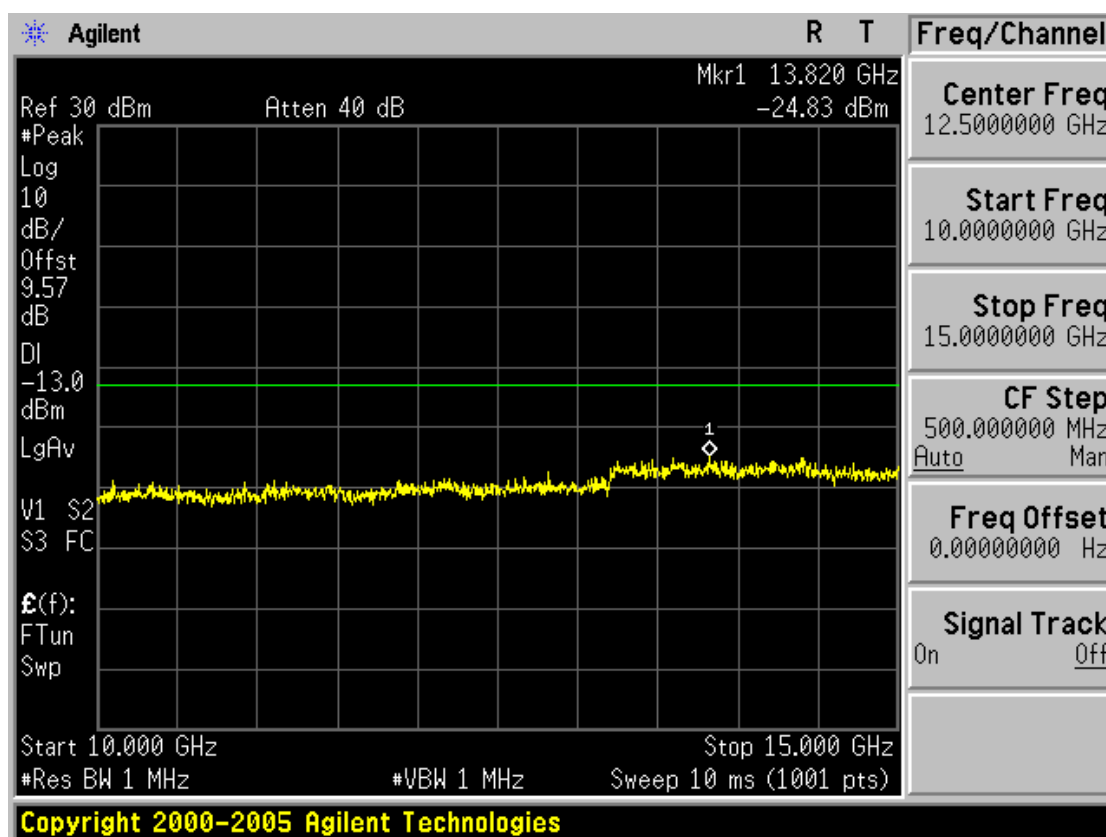
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -2



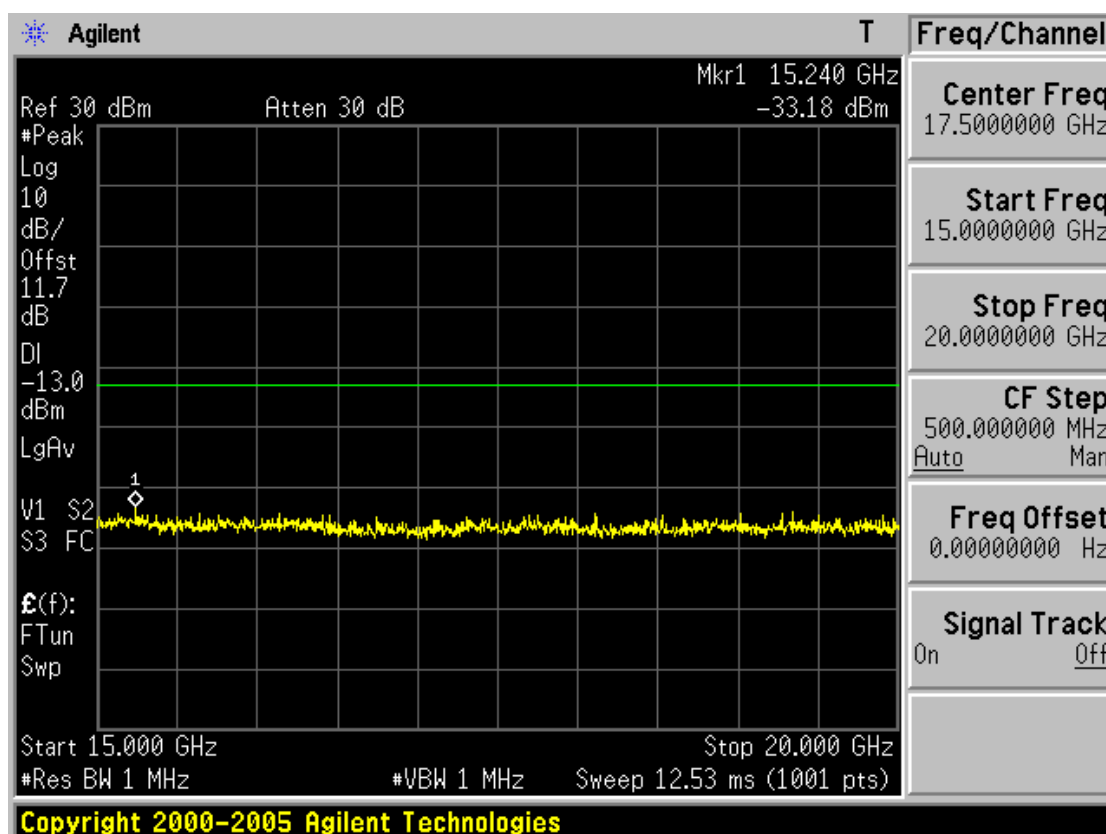
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -3



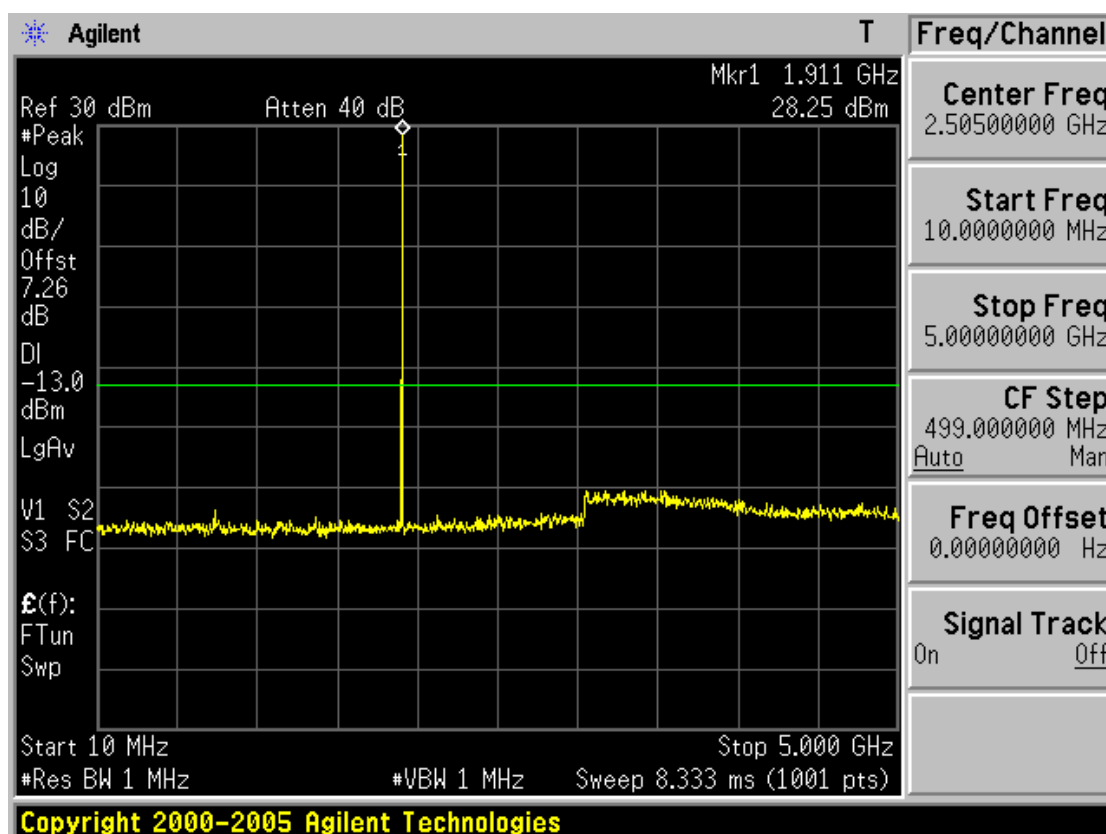
PCS1900

Spurious Emissions at Antenna Terminal / Ch.661 -4



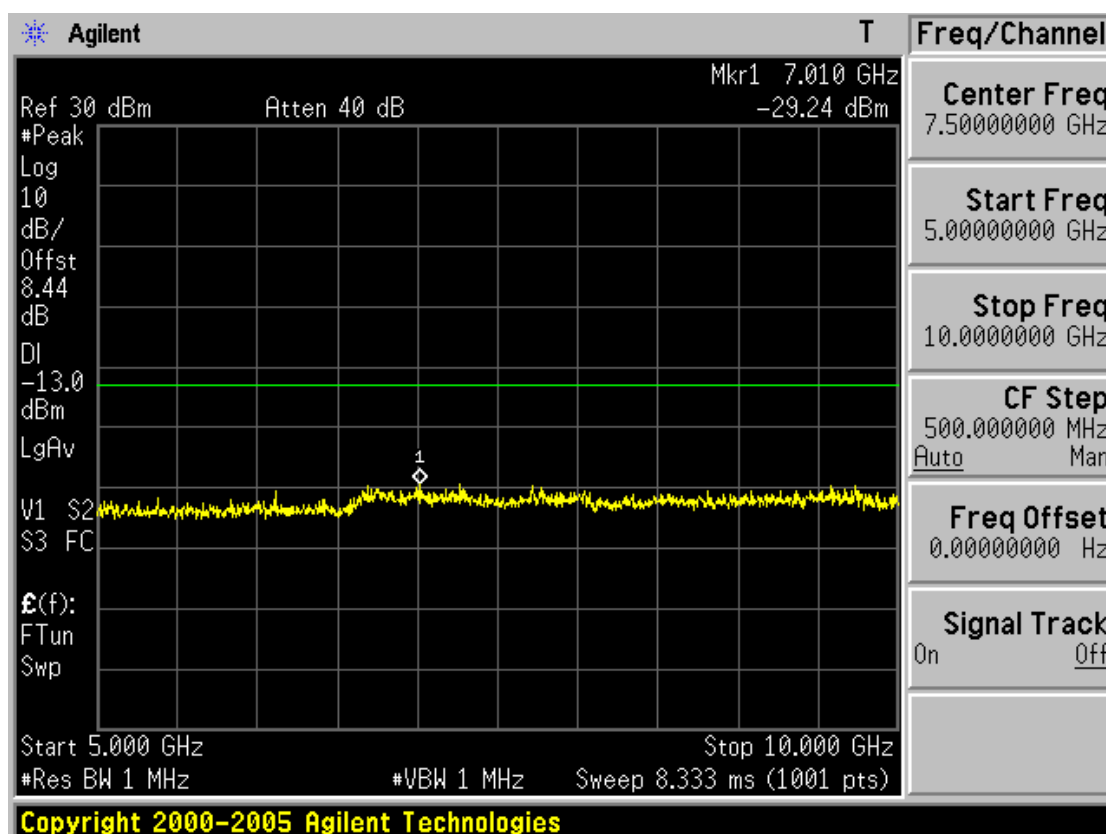
PCS1900

Spurious Emissions at Antenna Terminal / Ch.810 -1



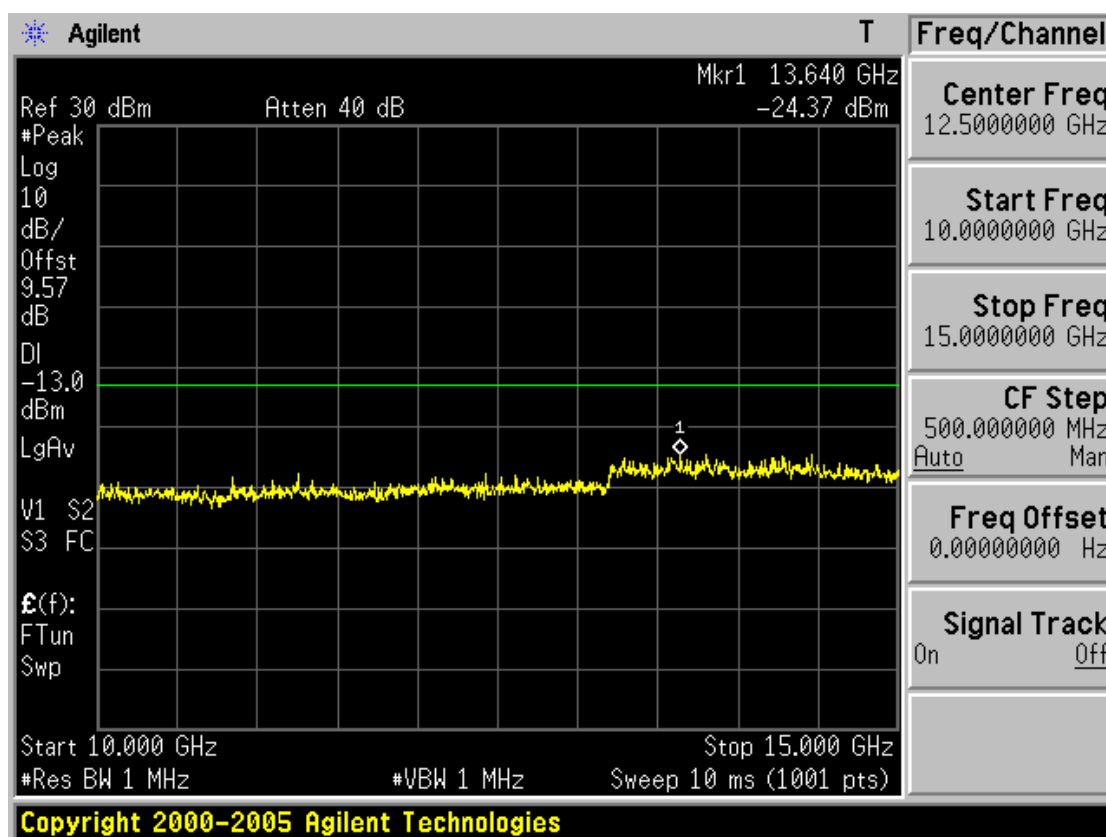
PCS1900

Spurious Emissions at Antenna Terminal / Ch.810 -2



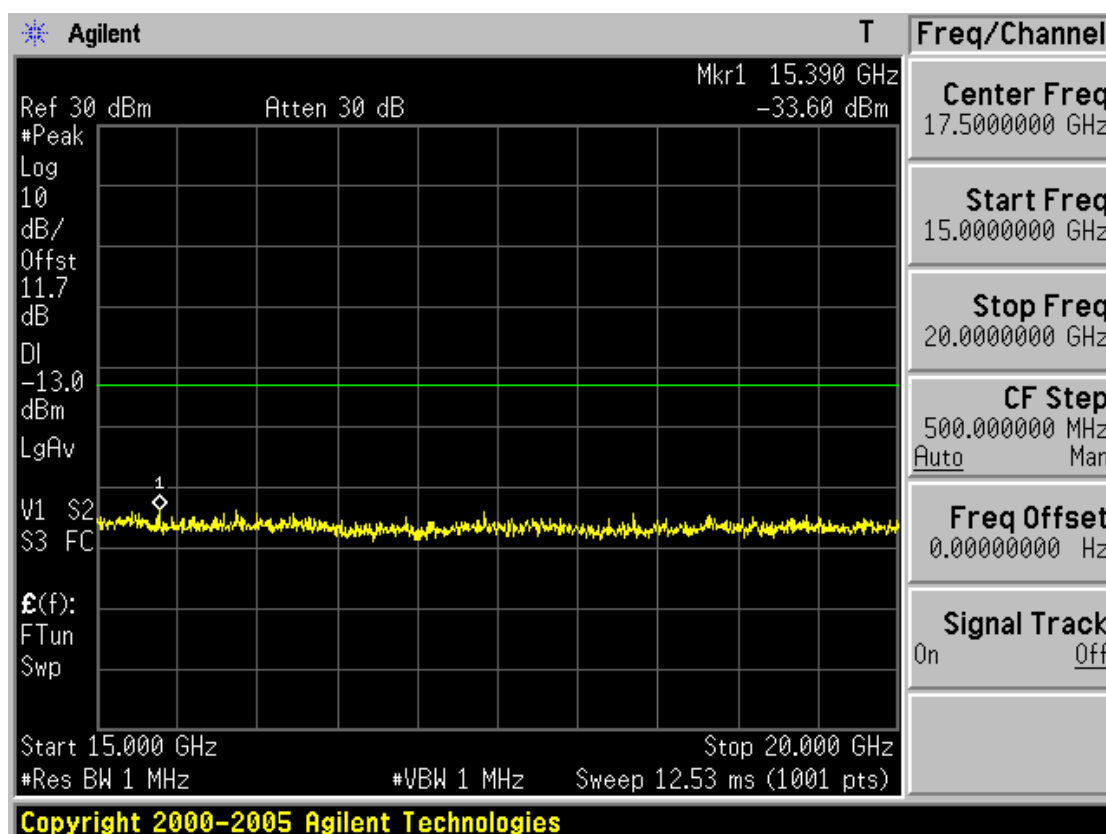
PCS1900

Spurious Emissions at Antenna Terminal / Ch.810 -3



PCS1900

Spurious Emissions at Antenna Terminal / Ch.810 -4



3.6 Field Strength of Spurious Radiation

FCC ID	: NPQK2000
Specification	: 47 CFR 2.1053(a)
Tested Frequency	: 824.2MHz, 836.6MHz and 848.8MHz for GSM850 1850.2MHz, 1880.0MHz and 1909.8MHz for PCS1900

Measurement Procedure:

- Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna.
The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM850 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 824.2 MHz
 CHANNEL : 128(Low)
 MEASURED OUTPUT POWER : 26.15 dBm = 0.412 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 39.15 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1648.4	-43.87	5.74	-38.13	H	64.28
2472.6	-37.27	6.94	-30.33	H	56.48
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method
 according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM850 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 836.6 MHz
CHANNEL : 190(Mid)
MEASURED OUTPUT POWER : 26.46 dBm = 0.443 W
MODULATION SIGNAL : GSM (Internal)
DISTANCE : 3 meters
LIMIT : $43 + 10 \log_{10} (W) =$ 39.46 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.2	-46.61	5.81	-40.80	H	67.26
2509.8	-38.46	6.97	-31.49	H	57.95
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM850 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 848.8 MHz
CHANNEL : 251(High)
MEASURED OUTPUT POWER : 26.57 dBm = 0.454 W
MODULATION SIGNAL : GSM (Internal)
DISTANCE : 3 meters
LIMIT : $43 + 10 \log_{10} (W) =$ 39.57 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1697.6	-45.83	5.87	-39.96	H	66.53
2546.4	-36.67	6.99	-29.68	H	56.25
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM1900 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 1850.2 MHz
 CHANNEL : 512(Low)
 MEASURED OUTPUT POWER : 27.37 dBm = 0.546 W
 MODULATION SIGNAL : GSM (Internal)
 DISTANCE : 3 meters
 LIMIT : $43 + 10 \log_{10} (W) =$ 40.37 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3700.4	-48.18	9.68	-38.50	H	65.87
-	-	-	-	-	-
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method
 according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM1900 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 1880.0 MHz
CHANNEL : 661(Mid)
MEASURED OUTPUT POWER : 28.85 dBm = 0.767 W
MODULATION SIGNAL : GSM (Internal)
DISTANCE : 3 meters
LIMIT : $43 + 10 \log_{10} (W) =$ 41.85 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3760	-46.48	9.70	-36.78	H	65.63
-	-	-	-	-	-
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

GSM1900 Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 1909.8 MHz
CHANNEL : 810(High)
MEASURED OUTPUT POWER : 28.89 dBm = 0.774 W
MODULATION SIGNAL : GSM (Internal)
DISTANCE : 3 meters
LIMIT : $43 + 10 \log_{10} (W) =$ 41.89 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBi)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
3819.6	-44.47	9.72	-34.75	H	63.64
-	-	-	-	-	-
-	-	-	-	-	-

NOTE

Radiated Spurious Emission Measurements by Substitution Method
according to ANSI/TIA/EIA-603-C 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

3.7 Frequency Stability/Temperature Variation.

FCC ID	: NPQK2000
Specification	: 47 CFR 2.1055
Tested Frequency	: 836.6MHz for GSM850 1880.0MHz for PCS1900

Measurement Procedure:

The frequency stability of the transmitter is measured by:

- a) **Temperature** :The temperature is varied from -30°C to + 50°C using an environmental chamber.
- b) **Primary Supply Voltage** :The primary supply voltage is varied from 85% to 115% of the voltage Normally at the input to the device or at the power supply terminals if cables are not normally supplied.

Specification –The minimum frequency stability shall be +/- 0.00025% at any time during normal operation.

Specification — The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025 (\pm 2.5 \text{ ppm})$ of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter and the individual oscillators is measured at room temperature (25°C to 27 °C to provide a reference)
2. The equipment is subjected to an overnight “soak” at -30°C without any power applied.
3. After the overnight ”soak” at -30°C(usually 14-16 hours),the equipment is turned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency to the transmitter and the individual oscillators is made within a three minute interval after applying power to the transmitter.
4. Frequency measurements is made at 10°C interval up to room temperature. At least a period of one and one half hour is provided to allow stabilization of the equipment at each temperature level.
5. Again the transmitter carrier frequency and the individual oscillators is measured at room temperature to begin measurement of the upper temperature levels.
6. Frequency were made at 10intervals starting at -30°C up to +50°C allowing at least two hours at each temperature for stabilization. In all measurements the frequency is measured within three minutes after applying power to the transmitter.
7. The artificial load is mounted external to the temperature chamber.

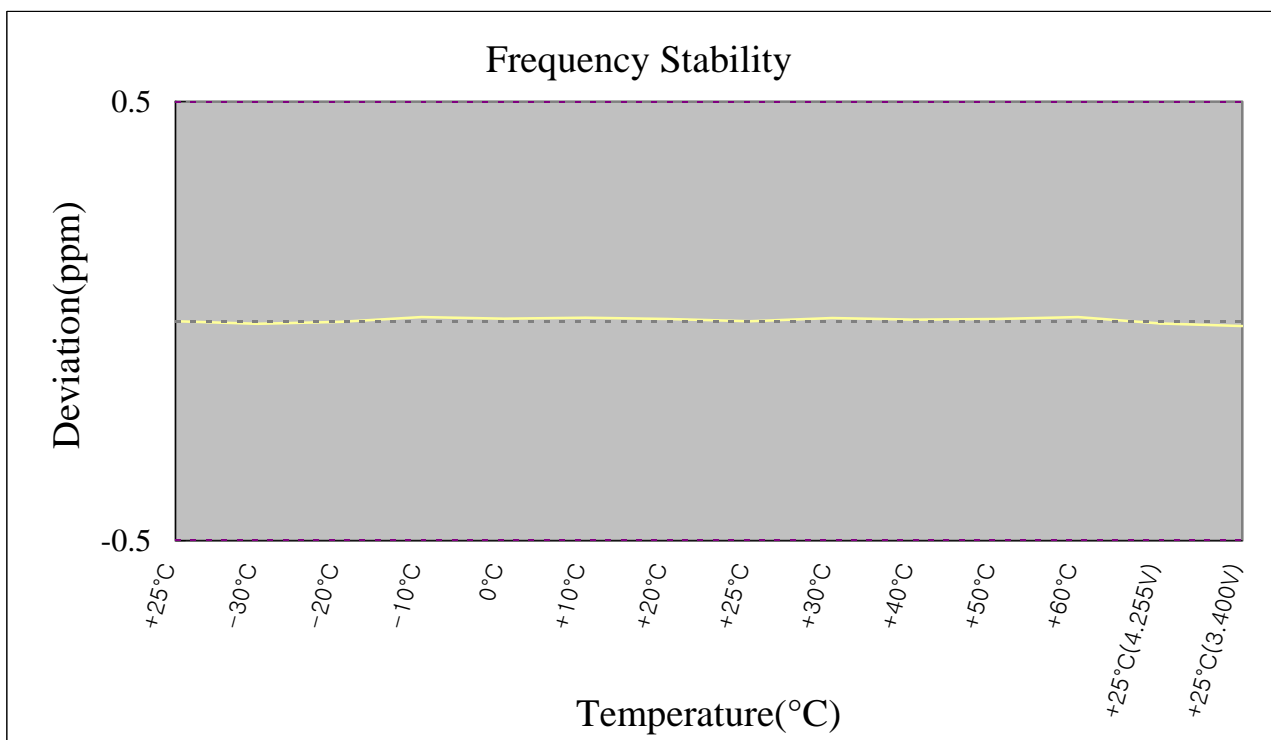
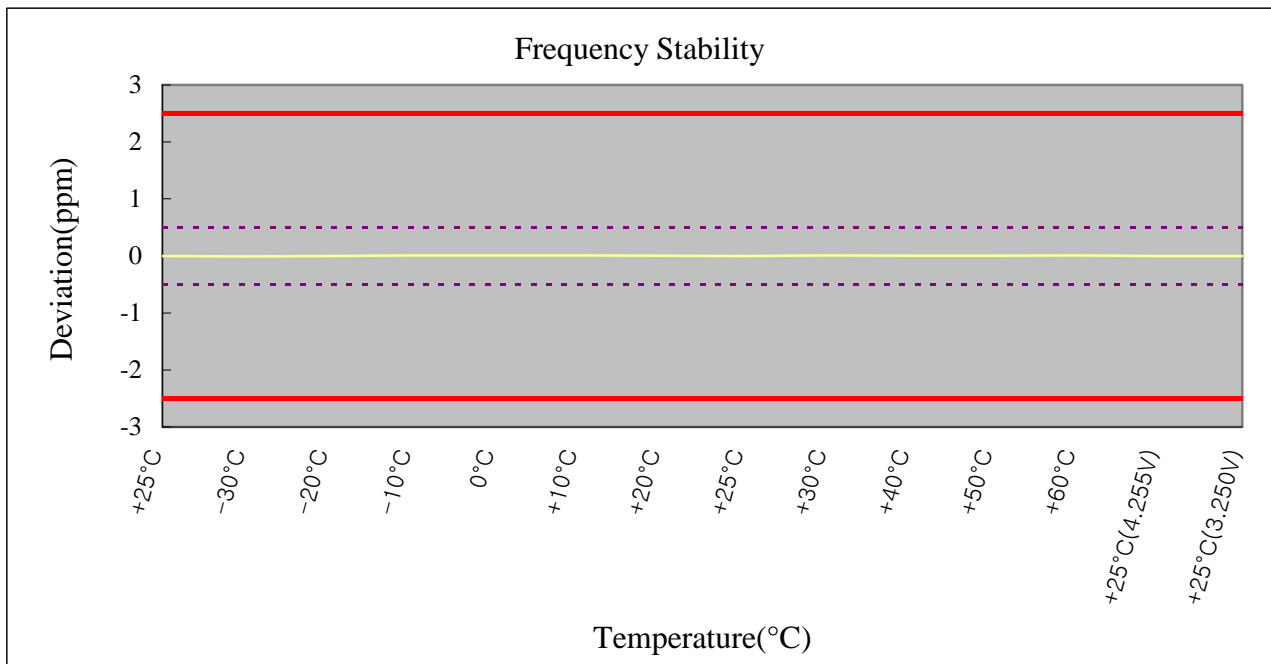
Frequency Stability (GSM850)

OPERATING FREQUENCY : 836,599,977 Hz
 CHANNEL : 190(Mid)
 REFERENCE VOLTAGE : 3.7 VDC
 DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (dB)	FREQ (Hz)	Deviation (%)
100%	3.7	+25(Ref)	836,599,977	0.000000
100%		-30	836,599,972	-0.000001
100%		-20	836,599,976	0.000000
100%		-10	836,599,985	0.000001
100%		0	836,599,982	0.000001
100%		+10	836,599,984	0.000001
100%		+20	836,599,981	0.000000
100%		+25	836,599,977	0.000000
100%		+30	836,599,983	0.000001
100%		+40	836,599,980	0.000000
100%		+50	836,599,981	0.000000
100%		+60	836,599,985	0.000001
85%	3.145	+25	-	-
115%	4.255	+25	836,599,973	0.000000
BATT.ENDPOINT	3.250	+25	836,599,968	-0.000001

Frequency Stability (GSM850)

(Continued...)



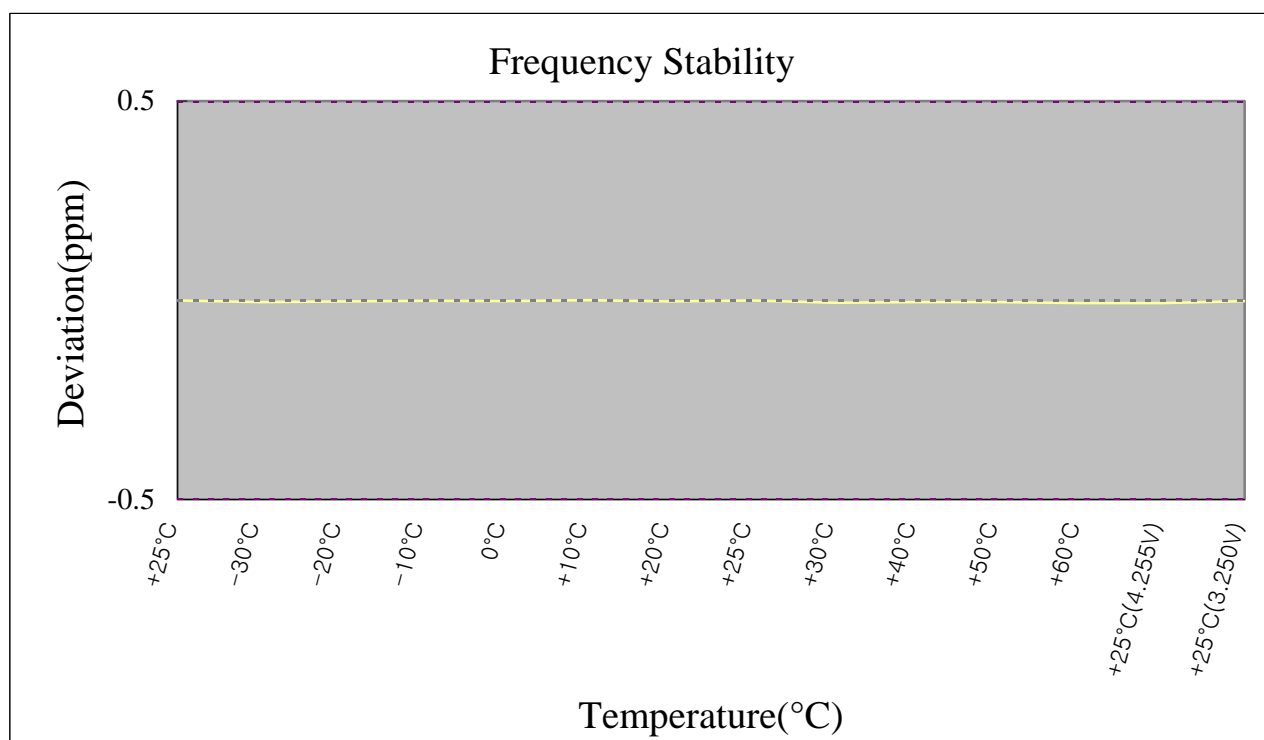
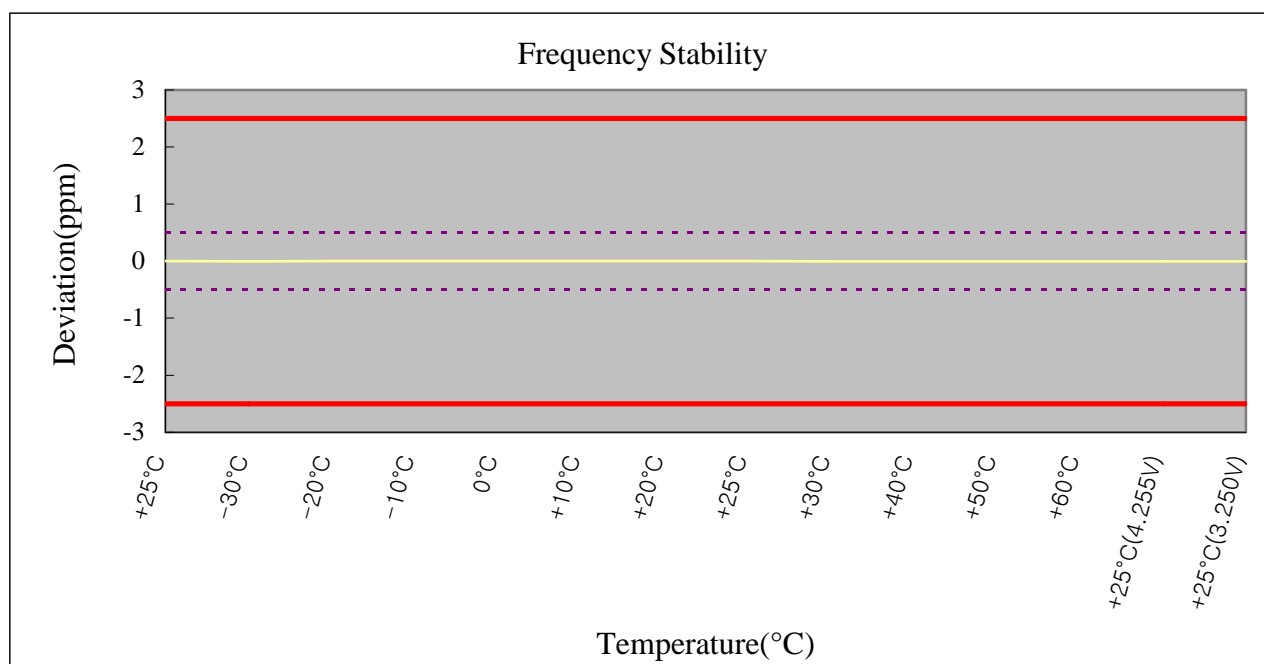
Frequency Stability (PCS1900)

OPERATING FREQUENCY : 1,879,999,977 Hz
 CHANNEL : 0661(Mid)
 REFERENCE VOLTAGE : 3.7 VDC
 DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (dB)	FREQ (Hz)	Deviation (%)
100%	3.7	+25(Ref)	1,879,999,977	0.000000
100%		-30	1,879,999,969	0.000000
100%		-20	1,879,999,972	0.000000
100%		-10	1,879,999,975	0.000000
100%		0	1,879,999,973	0.000000
100%		+10	1,879,999,978	0.000000
100%		+20	1,879,999,972	0.000000
100%		+25	1,879,999,977	0.000000
100%		+30	1,879,999,966	-0.000001
100%		+40	1,879,999,968	0.000000
100%		+50	1,879,999,968	0.000000
100%		+60	1,879,999,964	-0.000001
85%	3.145	+25	-	-
115%	4.255	+25	1,879,999,964	-0.000001
BATT.ENDPOINT	3.250	+25	1,879,999,973	0.000000

Frequency Stability (PCS1900)

(continued...)



4. TEST EQUIPMENT

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
01	Spectrum Analyzer	Agilent	E4404B	17/04/07	17/04/08	US41061134
02	Spectrum Analyzer	Agilent	E4440A	15/11/07	15/11/08	MY45304199
03	Spectrum Analyzer	H.P	8563E	09/10/07	09/10/08	3551A04634
04	Spectrum Analyzer	H.P	8591E	16/04/07	16/04/08	3649A05889
05	EMI Test Receiver	R&S	ESCI	27/04/07	27/04/08	100364
06	EMI Test Receiver	R&S	ESU	18/01/08	18/01/09	100014
07	Power Meter	H.P	EPM-442A	10/07/07	10/07/08	GB37170413
08	Power Sensor	H.P	8481A	11/07/07	11/07/08	3318A96332
09	Frequency Counter	H.P	5342A	06/09/07	06/09/08	2119A04450
10	Multifunction Synthesizer	H.P	8904A	23/11/07	23/11/08	3633A08404
11	Signal Generator	Rohde Schwarz	SMR20	21/03/07	21/03/08	101251
12	Signal Generator	H.P	E4421A	10/07/07	10/07/08	US37230529
13	Audio Analyzer	H.P	8903B	10/07/07	10/07/08	3011A09448
14	Modulation Analyzer	H.P	8901B	14/07/07	14/07/08	3028A03029
15	8960 Series 10 Wireless Comms Test Set	Agilent	Z5515C	18/07/07	18/07/09	GB43461134
16	Universal Radio Communication Test	Rohde Schwarz	CMU200	24/04/07	24/04/08	107631
17	Multi system UE Tester	Japan Radid Co., Ltd	NJZ-2000	N/A	N/A	ET00095
18	Power Splitter	WEINSCHEL	1593	05/10/07	05/10/08	332
19	BAND Reject Filter	Microwave Circuits	N0308372	18/10/07	18/10/08	3125- 01DC0312
20	BAND Reject Filter	Wainwright	WRCG1750	18/10/07	18/10/08	SN2
21	AC Power supply	DAEKWANG	5KVA	20/03/07	20/03/08	N/A
22	DC Power Supply	H.P	6622A	20/03/07	20/03/08	465487
23	HORN ANT	EMCO	3115	10/08/07	10/08/08	6419
24	HORN ANT	EMCO	3115	09/10/07	09/10/08	21097
25	HORN ANT	A.H.Systems	SAS-574	20/08/07	20/08/08	154
26	HORN ANT	A.H.Systems	SAS-574	20/08/07	20/08/08	155
27	Dipole Antenna	Schwarzbeck	VHA9103	27/11/07	27/11/08	2116
28	Dipole Antenna	Schwarzbeck	VHA9103	27/11/07	27/11/08	2117
29	Dipole Antenna	Schwarzbeck	UHA9105	27/11/07	27/11/08	2261
30	Dipole Antenna	Schwarzbeck	UHA9105	27/11/07	27/11/08	2262
31	Loop Antenna	ETS	6502	30/10/07	30/10/08	3471

4. TEST EQUIPMENT (CONTINUED)

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
32	TEMP & HUMIDITY Chamber	JISCO	J-RHC2	02/10/07	02/10/08	021031
33	Oscilloscope	Tektronix	TDS3052	02/11/07	02/11/08	B016821
34	Frequency Converter	Kyorits	KCV-604C	21/07/07	21/07/08	4-230-3
35	Log Periodic Antenna	Schwarzbeck	UHALP9108A1	08/06/07	08/06/08	1098
36	Biconical Antenna	Schwarzbeck	VHA9103	01/10/07	01/10/08	2233
37	Digital Multimeter	H.P	34401A	20/03/07	20/03/08	3146A13475
38	Attenuator (10dB)	WEINSCHL	23-10-34	05/10/07	05/10/08	BP4386
39	High-Pass Filter	ANRITSU	MP526D	08/10/07	08/10/08	M27756
40	Attenuator (3dB)	Agilent	8491B	12/07/07	12/07/08	58177
41	Attenuator (10dB)	WEINSCHL	23-10-34	26/01/07	26/01/08	BP4387
42	Amplifier (25dB)	Agilent	8447D	08/08/07	08/08/08	2443A03690
43	Amplifier (30dB)	Agilent	8449B	25/10/07	25/10/08	3008A01590
44	Position Controller	TOKIN	5901T	N/A	N/A	14173
45	Driver	TOKIN	5902T2	N/A	N/A	14174
46	Spectrum Analyzer	H.P	8591E	16/04/07	16/04/08	3649A05889
47	RFI/FIELD Intensity Meter	Kyorits	KNW-2402	06/09/07	06/09/08	4N-170-3
48	LISN	Kyorits	KNW-407	30/08/07	30/08/08	8-317-8
49	LISN	Kyorits	KNW-242	06/10/07	06/10/08	8-654-15
50	CVCF	NF Electronic	4400	N/A	N/A	344536 4420064
51	Software	ToYo EMI	EP5/RE	N/A	N/A	Ver 2.0.800
52	Software	ToYo EMI	EP5/CE	N/A	N/A	Ver 2.0.801
53	Software	AUDIX	e3	N/A	N/A	Ver 3.0
54	Software	Agilent	Benchlink	N/A	N/A	A.01.09 021211

5. EMISSION DESIGNATOR

GSM850

Emission Designator = 253KGXW

GSM BW = 253.420 KHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

PCS1900

Emission Designator = 250KGXW

GSM BW = 250.259 KHz

G = Phase Modulation

X = Cases not otherwise covered

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

6. CONCLUSION

The data collected shows that the **Telian Corporation**. Dual band GSM phone **FCC ID: NPQK2000** complies with all the requirements of Parts 2 , 22 and 24 of the FCC rules.