Lab Code: 200167-0

FCC PART 22H/24E
MEASUREMENT AND TEST REPORT

For

Beyond E-Tech Inc

3005 West Loop South STE.100

Houston, TX 77027, USA

FCC ID: WTID698

Report Type:	Product Type:
Original Report	GSM 850/1900 Dual Standby Mobile Phone

Test Engineer:	Jack Liu
Report Number:	R0810016-11
Report Date:	2008-10-16
Reviewed By:	Boni Baniqued Sr. RF Engineer
Prepared By: **(63)**	Bay Area Compliance Laboratories Corp. (BACL) 1274 Anvilwood Ave. Sunnyvale, CA 94089, USA Tel: (408) 732-9162 Fax: (408) 732 9164

TABLE OF CONTENTS

1 GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

This measurement and test report has been compiled on behalf of *Beyond E-Tech Inc* and their product model: *D698, FCC ID:WTID698* which is a GSM 850/1900 Dual Standby Mobile Phone with Bluetooth.

Frequency band: GSM850: 824-849 MHZ (Tx); 869-894 MHz (Rx)
PCS1900: 1850-1910 MHz (Tx); 1930-1990 MHz (Rx)
Bluetooth: 2402-2480 MHz (Tx/Rx)

1.2 EUT Photo

Additional Photos in Exhibit C

1.3 Mechanical Description

The *Beyond E-Tech Inc* product model: *D698*, FCC ID: *WTID698* or the "EUT" as referred to in this report is a mobile phone. The EUT measures approximately 68 mm (L) x 40.5 mm (W) x 13.4 mm (H), and weighs approximately 46 g.

** The test data gathered are from typical production sample, serial number: B1994 Sample ID: 72166 provided by the BACL.*

1.4 Objective

This type approval report is prepared on behalf of *Beyond E-Tech Inc* in accordance with Part 2, Subpart J, Part 22 Subpart H, and Part 24 Subpart E of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for RF output power, modulation characteristic, occupied bandwidth, spurious emissions at antenna terminal, field strength of spurious radiation, frequency stability, band edge, and conducted and radiated margin.

This measurement and test report only pertains to the GSM 850/1900 portion of the EUT; for measurement and test results to the Bluetooth function please see report RSZ08100706 issued by BACL Shenzhen branch.

1.5 Related Submittal(s)/Grant(s)

FCC Part15.247 submission with FCC ID: WTID698.

1.6 Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Part 22 Subpart H - Cellular Radiotelephone Service
Part 24 Subpart E - PCS

Applicable Standards: TIA/EIA603-C, ANSI C63.4-2003.

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.

1.7 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in the 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 values ranging from $\pm$2.0 dB for Conducted Emissions tests and $\pm$4.0 dB for Radiated Emissions tests are the most accurate estimates pertaining to uncertainty of EMC measurements at BACL Corp.

Detailed instrumentation measurement uncertainties can be found in BACL Corp. report QAP-018.

1.8 Test Facility

The test site used by BACL Corp. to collect radiated and conducted emissions measurement data is located at its facility in Sunnyvale, California, USA.

The test sites at BACL have 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, Industry Canada, and Voluntary Control Council for Interference has the reports on file and is listed under FCC registration number: 90464, IC registration number: 3062A, and VCCI Registration Number: C-2463 and R-2698. The test site has been approved by the FCC, IC, and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations can be found at http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm

2 SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was configured for testing according to TIA/EIA 603-C.

The final qualification test was performed with the EUT operating at normal mode.

2.2 EUT Exercise Software

An RFID simulation program was provided by the customer.

2.3 Special Accessories

N/A

2.4 Equipment Modifications

No modifications were made to the EUT

2.5 Remote Support Equipment

N/A

2.6 Local Support Equipment

Manufacturer	Description	Model	Serial Number
HP	Laptop	T41	99-KHVP2

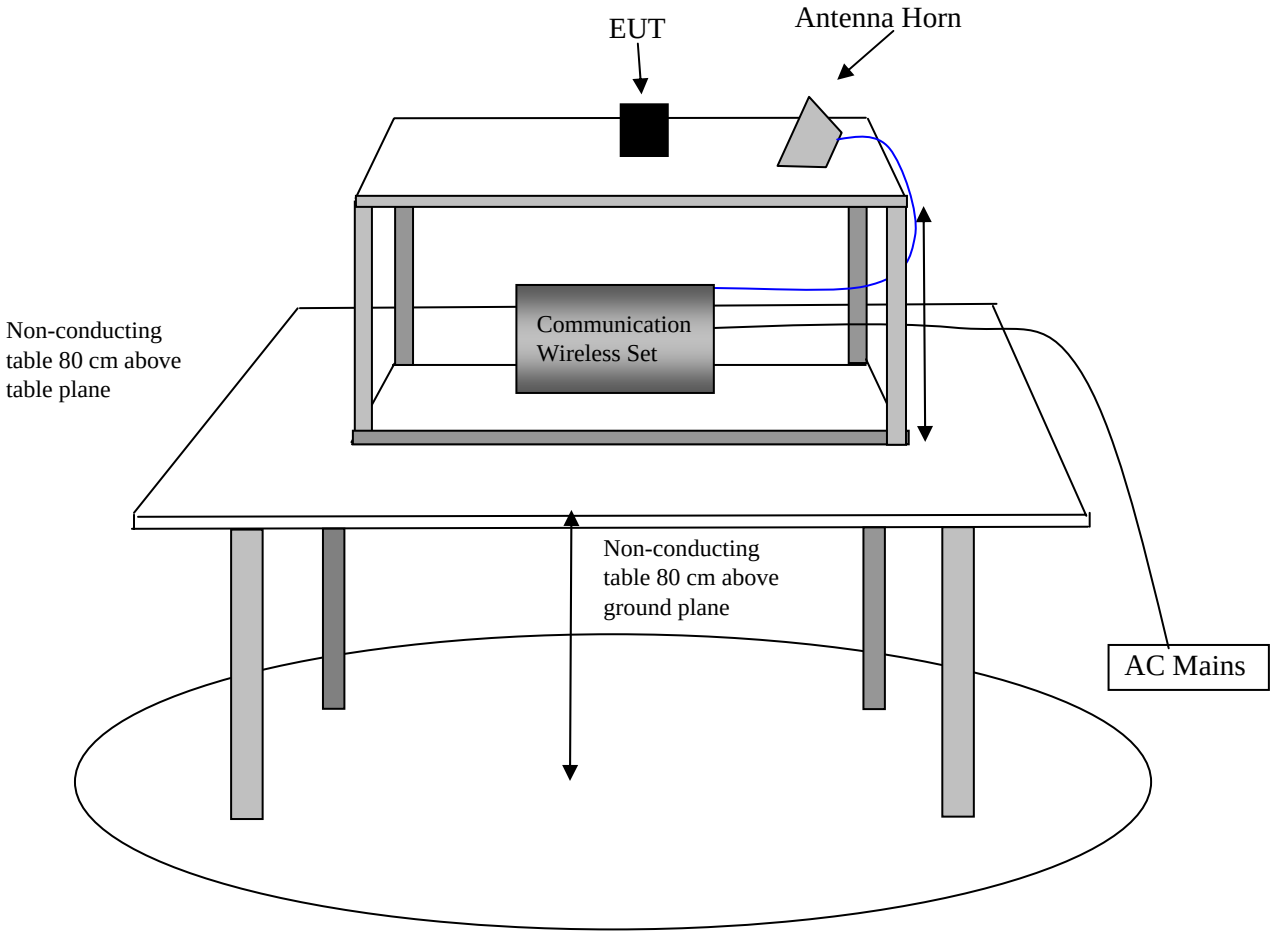
2.7 Power Supply and Line Filters

Manufacturer	Description	Model	Serial Number
AC/DC Adapter	USB version AC/DC Adapter	ZT-688	B1994

2.8 Interface Ports and Cabling

Cable Description	From	To
USB cable	EUT	AC/DC Adapter

2.9 Test setup Block Diagram for radiated emissions tests



3 SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§ 2.1047	Modulation Characteristics	N/A
§ 2.1053 § 22.917 (a) § 24.238 (a)	Field Strength of Spurious Radiation	Compliant
§2.1093	RF Exposure	Compliant Please See SAR report R0810016-SAR
§ 2.1046 § 22.913 § 24.232	RF Output Power	Compliant
§ 2.1049 § 22.917 § 24.238	Out of Band Emissions, Occupied Bandwidth	Compliant
§ 2.1051, § 22.917 § 24.238(a)	Spurious Emissions at Antenna Terminals	Compliant
§ 2.1055 (a) § 2.1055 (d) § 22.355 § 24.235	Frequency stability vs. temperature Frequency stability vs. voltage	Compliant
§ 22.917 §24.238	Band Edge	Compliant

4 §2.1047 - MODULATION CHARACTERISTIC

4.1 Applicable Standard

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

5 §1.1307(b) (1) & §2.1093 - RF EXPOSURE

5.1 Applicable Standard

According to §1.1310 and §2.1093 RF exposure is calculated.

5.2 Test Result

Compliant: The EUT is a hand portable device and thus requires SAR evaluation, please see BACL SAR Report R0810016-SAR for measurement and testing in details.

6 §2.1053 - RADIATED SPURIOUS EMISSIONS

6.1 Applicable Standard

Requirements: CFR 47, § 2.1053, § 22.917, § 24.238.

6.2 Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to tenth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB = 10 lg (TXpwr in Watts/0.001) – the absolute level

Spurious attenuation limit in dB = 43 + 10 Log_{10} (power out in Watts)

6.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Due Date
R & S	Communication, Radio Universal	CMU200	103492	2009-05-24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2009-04-28
Sunol Sciences	Antenna	JB1	A103105-3	2009-03-25
A.R.A	Horn Antenna	DRG-118/A	1132	2009-07-28
A. H. Systems	Antenna, Horn, DRG	SAS-200/571	261	2009-07-01
HP	Pre-Amplifier	8449B	3008A01978	2008-11-02
HP	Pre-Amplifier	8447D	2944A06639	2008-12-19

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

6.4 Summary of Test Results

Environmental Conditions

Temperature:	21 °C ~ 25 °C
Relative Humidity:	40 % ~ 60 %
ATM Pressure:	101.1 kPa ~ 101.6 kPa

* *Testing performed by Jack Liu on 2008-10-8 to 2008-10-14*

Worst case reading as follows:

Mode: Transmitting		
Margin (dB)	**Frequency (MHz)**	**Antenna Polarization (Horizontal/Vertical)**
-20.74	1673.2	Vertical

Test Data

Run # 1: 30MHz -10GHz Cellular Band Middle Channel (836.6 MHz)

Indicated		**Azimuth**	**Test Antenna**		**Substituted**				**Absolute Level (dBm)**	**Limit (dBm)**	**Margin (dB)**
Freq. (MHz)	**Amp. (dBuV)**	**(degree)**	**Height (m)**	**Polar (H/V)**	**Freq. (MHz)**	**Level dBm**	**Antenna Gain (dBi)**	**Cable Loss (dB)**			
1673	60.81	205	154	V	1673	-41.89	8.8	0.65	-33.74	-13	-20.74
105.7	68.01	58	129	H	105.7	-33.69	0	0.27	-33.96	-13	-20.96
105.7	67.24	181	100	V	105.7	-34.46	0	0.27	-34.73	-13	-21.73
1673	57.26	157	100	H	1673	-45.44	8.8	0.65	-37.29	-13	-24.29

Run # 2: 30MHz -20GHz PCS Band Middle Channel (1880 MHz)

Indicated		**Azimuth**	**Test Antenna**		**Substituted**				**Absolute Level (dBm)**	**Limit (dBm)**	**Margin (dB)**
Freq. (MHz)	**Amp. (dBuV)**	**(degree)**	**Height (m)**	**Polar (H/V)**	**Freq. (MHz)**	**Level dBm**	**Antenna Gain (dBi)**	**Cable Loss (dB)**			
105.7	64.44	58	129	H	105.7	-37.26	0	0.27	-37.53	-13	-24.53
105.7	62.58	181	100	V	105.7	-39.12	0	0.27	-39.39	-13	-26.39

7 §2.1046, §22.913(a), & §24.232 – RF OUTPUT POWER

7.1 Applicable Standard

According to FCC §2.1046 and §22.913 (a), the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

According to FCC §2.1046 and §24.232 (a), in no case may the peak output power of a base station transmitter exceed 2 watt.

7.2 Test Procedure

Conducted:

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

Radiated (ERP and EIRP):

TIA-603-C §2.2.17

7.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Due Date
R & S	Communication, Radio Universal	CMU200	103492	2009-05-24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2009-04-28
Sunol Sciences	Antenna	JB1	A103105-3	2009-03-25
A.R.A	Horn Antenna	DRG-118/A	1132	2009-07-28
A. H. Systems	Antenna, Horn, DRG	SAS-200/571	261	2009-07-01
HP	Pre-Amplifier	8449B	3008A01978	2008-11-02
HP	Pre-Amplifier	8447D	2944A06639	2008-12-19

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

7.4 Summary of Test Results

Environmental Conditions

Temperature:	21 °C ~ 25 °C
Relative Humidity:	40 % ~ 60 %
ATM Pressure:	101.1 kPa ~ 101.6 kPa

** Testing performed by Jack Liu on 2008-10-8 to 2008-10-14*

Conducted Power

Cellular Band Part 22H:

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Limit (dBm)
Low	824.2	31.62	1452.1	38.45
Middle	836.6	31.59	1442.1	38.45
High	848.8	31.51	1416	38.45

PCS Band Part 24E:

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Limit (dBm)
Low	1850.2	28.04	637	33
Middle	1880.0	28.22	663.7	33
High	1909.8	28.20	660.7	33

Radiated Power (ERP and EIRP)

Cellular Band Part 22H

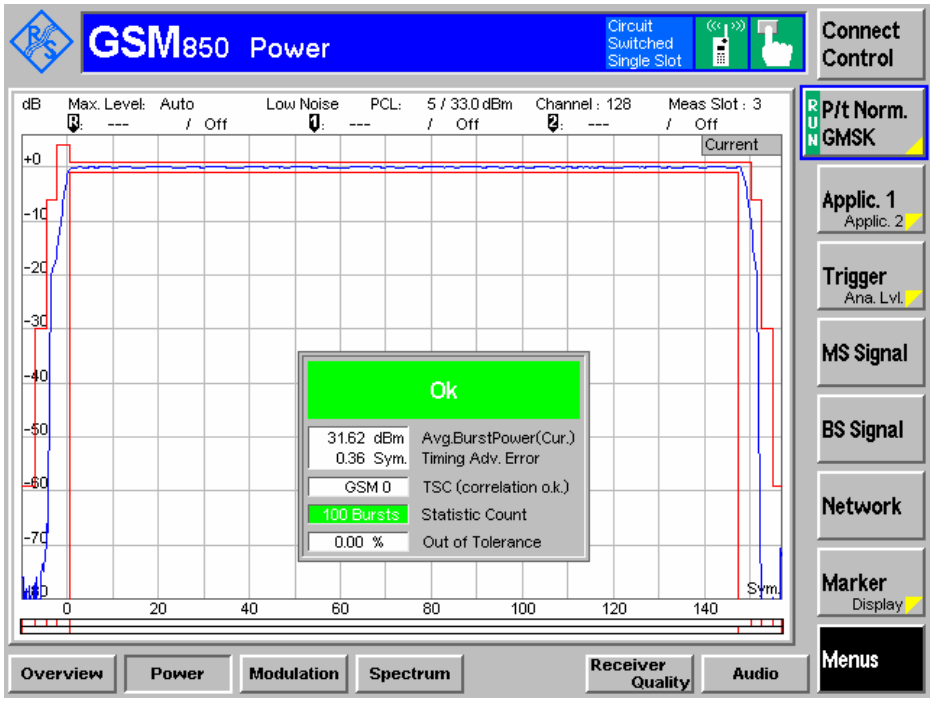
Indicated		Azimuth	Test Antenna		Substituted				Absolute Level	Limit	Margin
Freq. (MHz)	Amp. (dBuV)	(degree)	Height (m)	Polar (H/V)	Freq. (MHz)	Level (dBm)	Antenna Gain Correction	Cable Loss (dB)	(dBm)	(dBm)	(dB)
824.2	95.71	128	210	V	824.2	23.35	0	0.65	22.70	38.45	-15.75
824.2	94.08	44	100	H	824.2	21.72	0	0.65	21.07	38.45	-17.38
836.6	93.98	127	228	V	836.6	21.62	0	0.65	20.97	38.45	-17.48
836.6	92.15	43	100	H	836.6	19.79	0	0.65	19.14	38.45	-19.31
848.8	93.01	124	225	V	848.8	20.65	0	0.65	20.00	38.45	-18.45
848.8	92.31	69	100	H	848.8	19.95	0	0.65	19.30	38.45	-19.15

PCS Band Part 24E:

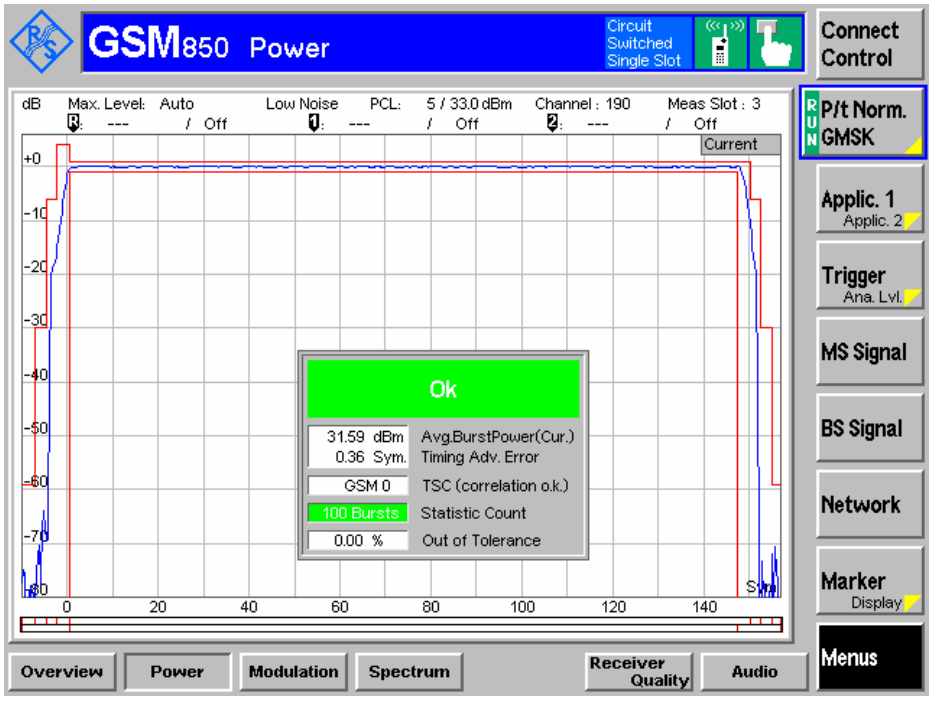
Indicated		Azimuth	Test Antenna		Substituted				Absolute Level	Limit	Margin
Freq. (MHz)	Amp. (dBuV)	(degree)	Height (m)	Polar (H/V)	Freq. (MHz)	Level (dBm)	Antenna Gain Correction	Cable Loss (dB)	(dBm)	(dBm)	(dB)
1850.2	86.23	145	100	V	1850.2	18.86	9.5	1.09	27.27	33	-5.73
1850.2	86.47	200	100	H	1850.2	19.82	9.5	1.09	28.23	33	-4.77
1880	86.70	120	120	V	1880	19.37	9.0	1.14	27.23	33	-5.77
1880	86.62	200	100	H	1880	19.85	9.0	1.14	27.71	33	-5.29
1909.8	86.62	120	150	V	1909.8	19.44	9.0	1.14	27.30	33	-5.7
1909.8	86.27	200	100	H	1909.8	19.51	9.0	1.14	27.37	33	-5.63

Plots of Conducted Output Power for Part 22H

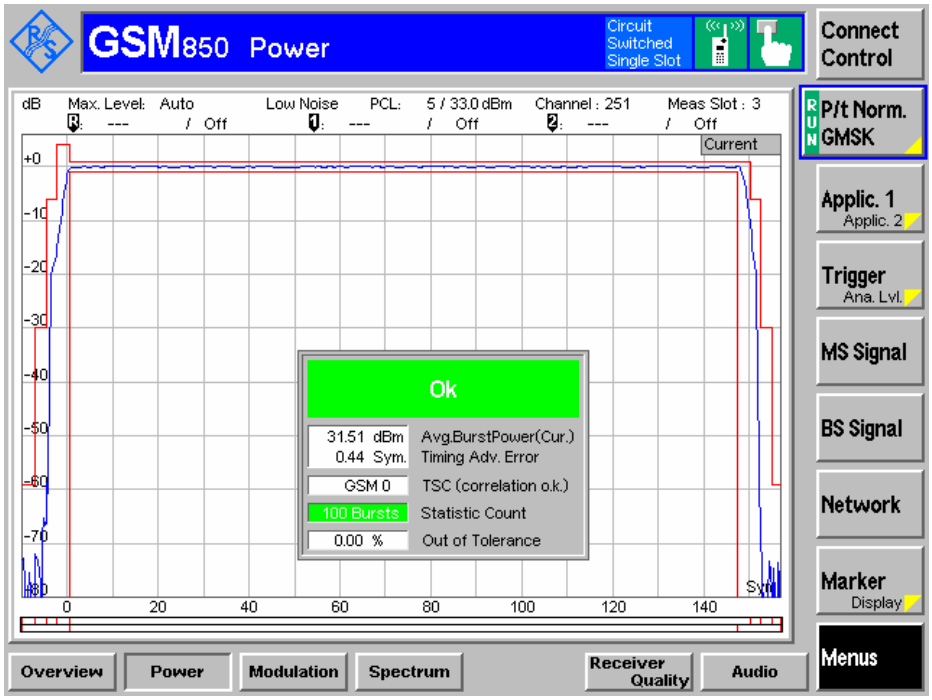
Low Channel



Middle Channel

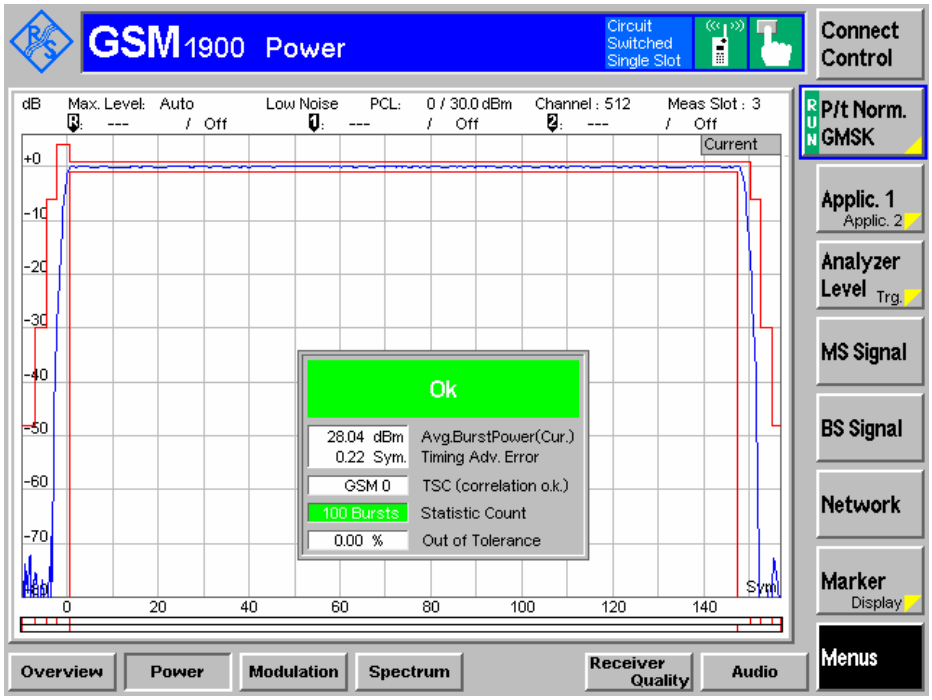


High Channel

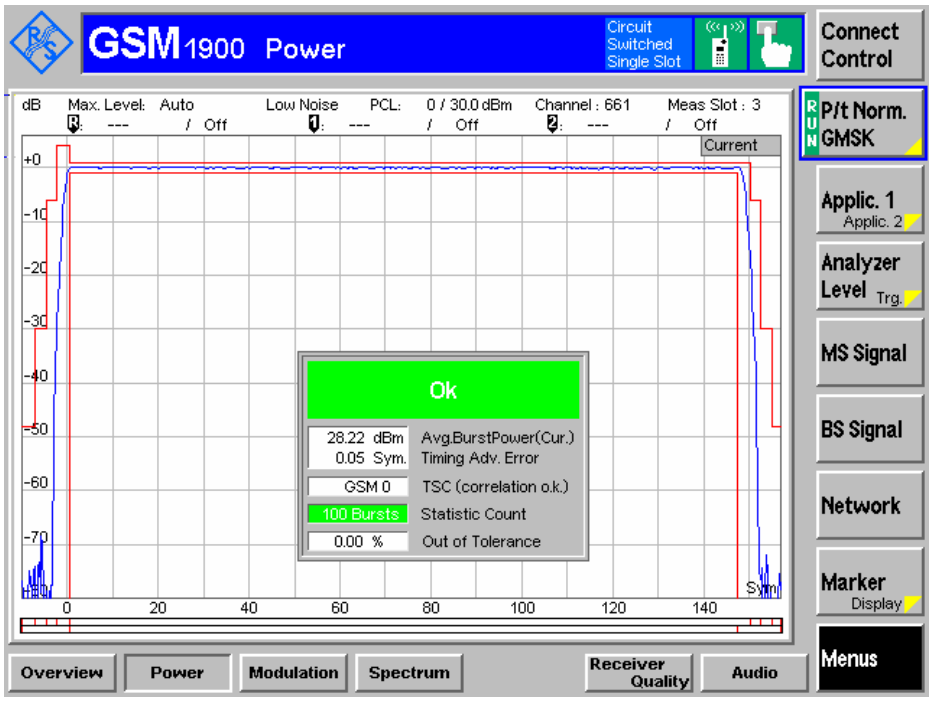


Plots of Conducted Output Power for Part 24E

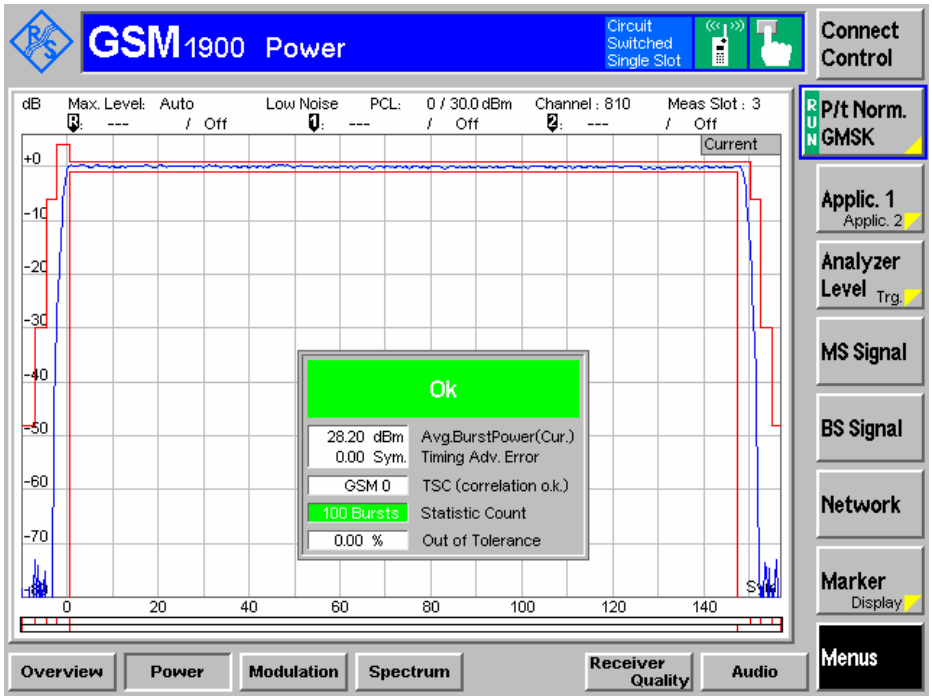
Low Channel



Middle Channel



High Channel



8 §2.1049, §22.917, §22.905, & §24.238 - OCCUPIED BANDWIDTH

8.1 Applicable Standard

Requirements: CFR 47, Section 2.1049, Section 22.901, Section 22.917 and Section 24.238.

8.2 Test Procedure

The RF output of the transmitter was connected to the simulator and the spectrum analyzer through sufficient attenuation.

The resolution bandwidth of the spectrum analyzer was set at 3 kHz (Cellular /PCS) and the -26 dB bandwidth was recorded.

8.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Due Date
R & S	Communication, Radio Universal	CMU200	103492	2009-05-24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2009-04-28

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

8.4 Summary of Test Results

Environmental Conditions

Temperature:	21 °C ~ 25 °C
Relative Humidity:	40 % ~ 60 %
ATM Pressure:	101.1 kPa ~ 101.6 kPa

** Testing performed by Jack Liu on 2008-10-8 to 2008-10-14*

Cellular Band (Part 22H):

Channel	Frequency (MHz)	26 dB Bandwidth (kHz)	99% Bandwidth (kHz)
Low	824.2	311.465	244.1547
Middle	836.6	319.554	243.5766
High	848.8	315.517	247.5552

PCS Band (Part 24E):

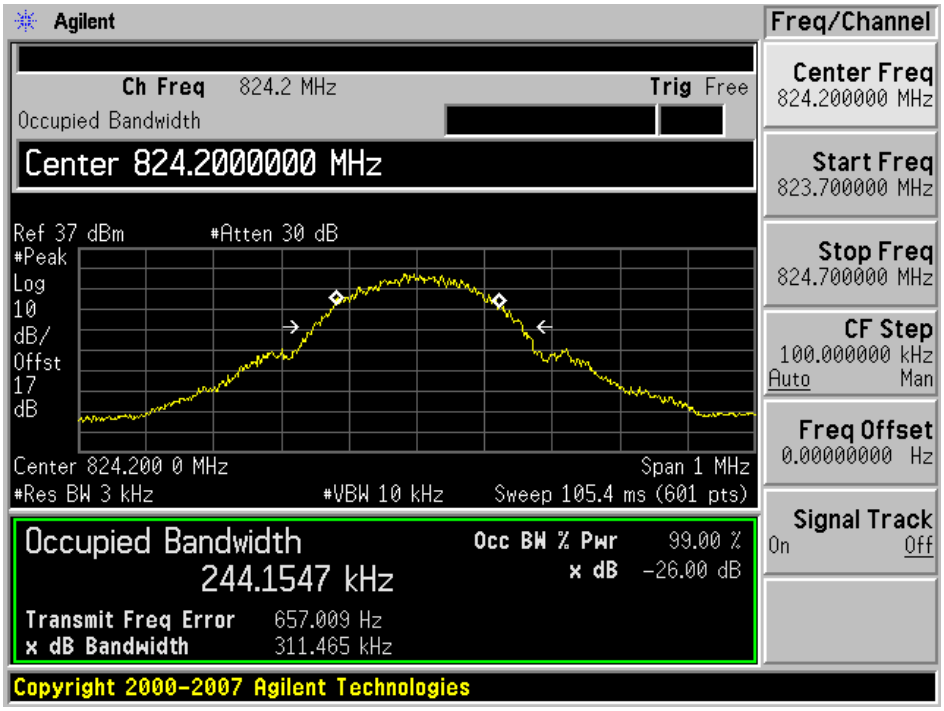
Channel	Frequency (MHz)	26 dB Bandwidth (kHz)	99% Bandwidth (kHz)
Low	1850.2	308.962	240.7302
Middle	1880.0	311.987	244.6583
High	1909.8	314.840	241.8282

8.5 Test Data & Plots

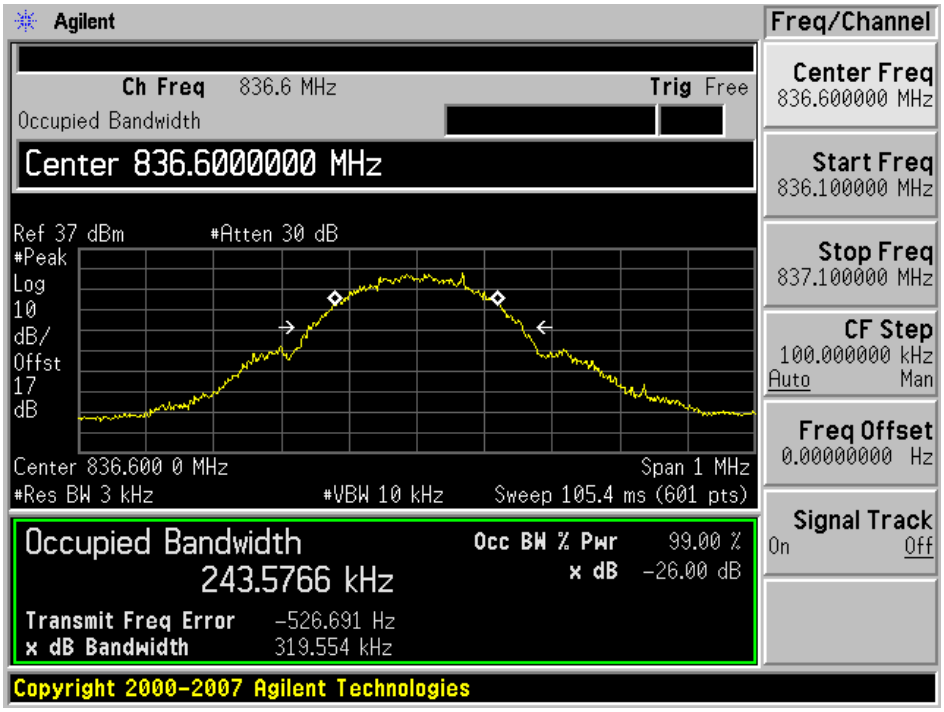
Please refer to the following plots.

Plots of Occupied Bandwidth for Part 22H

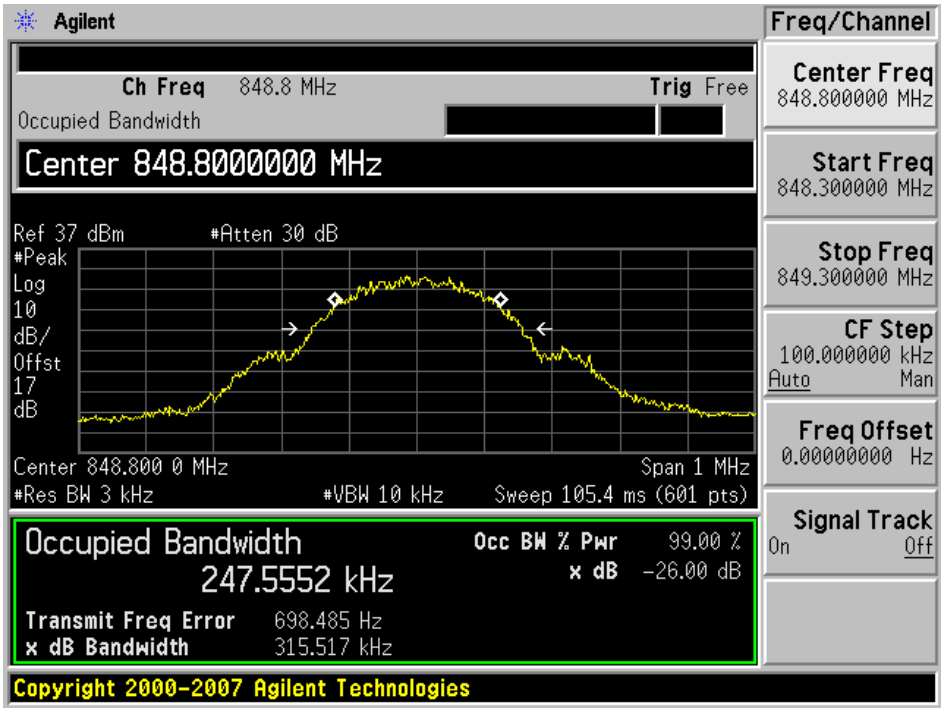
Low Channel



Middle Channel

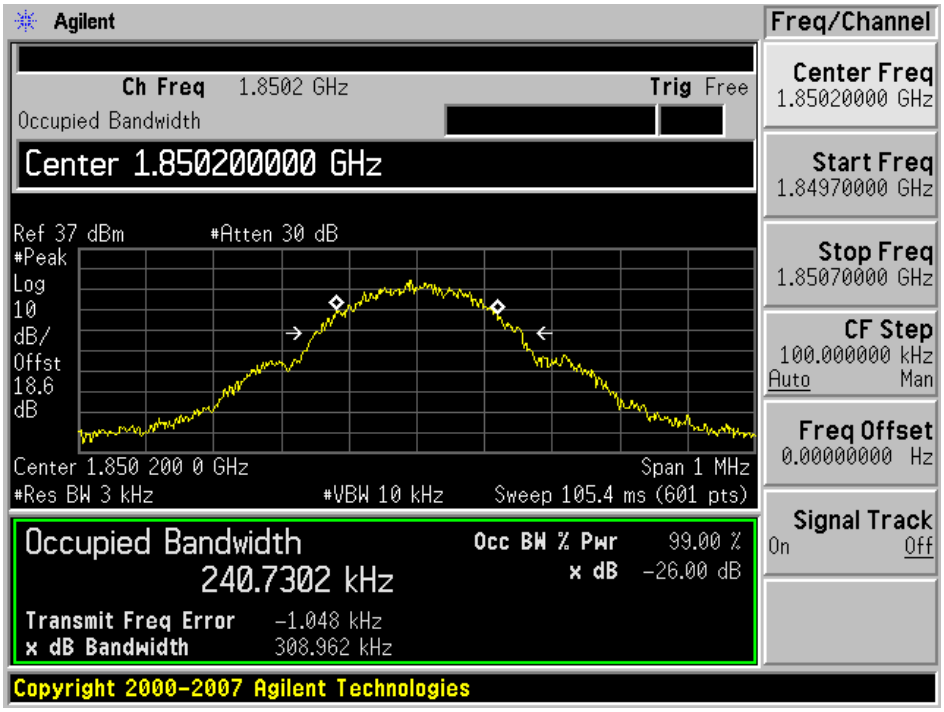


High Channel

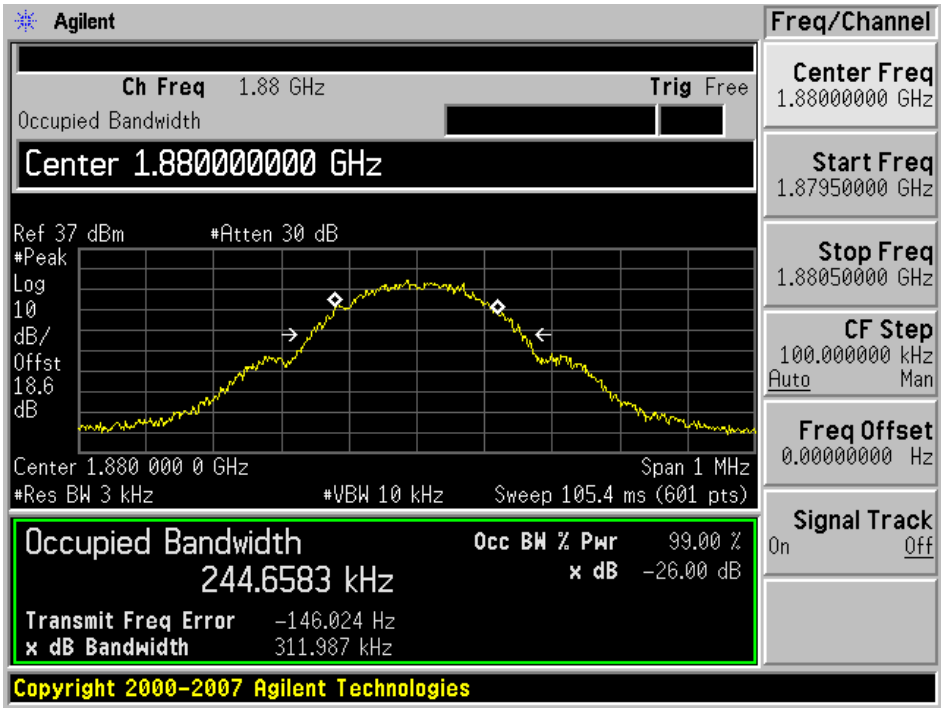


Plots of Occupied Bandwidth for Part 24E

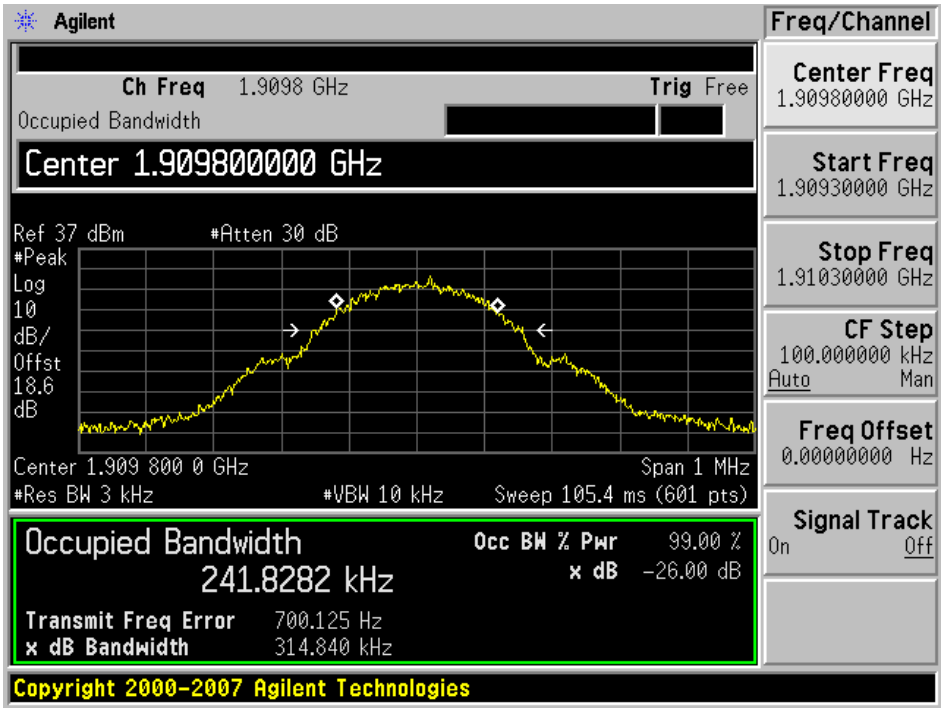
Low Channel



Middle Channel



High Channel



9 §2.1051, §22.917, & §24.238(a) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

9.1 Applicable Standard

Requirements: CFR 47, § 2.1051. § 22.917 & §24.238(a).

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1057.

9.2 Test Procedure

The RF output of the transceiver was connected to a spectrum analyzer and simulator through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10th harmonic.

9.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Due Date
R & S	Communication, Radio Universal	CMU200	103492	2009-05-24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2009-04-28

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

9.4 Test Results

Environmental Conditions

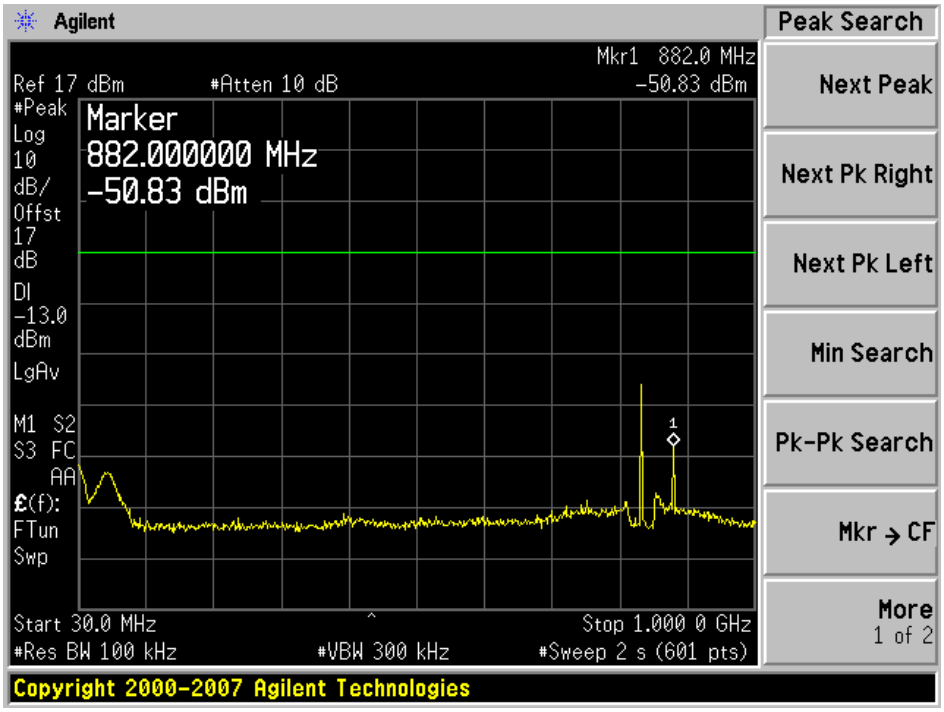
Temperature:	21 °C ~ 25 °C
Relative Humidity:	40 % ~ 60 %
ATM Pressure:	101.1 kPa ~ 101.6 kPa

** Testing performed by Jack Liu on 2008-10-8 to 2008-10-14*

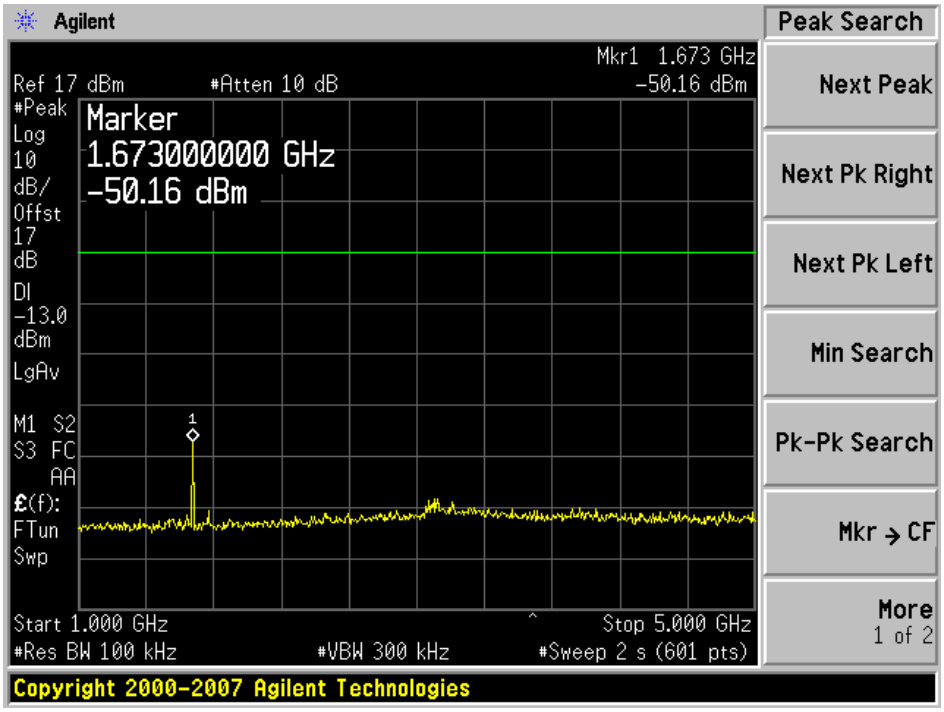
Please refer to the plots featured hereinafter

Plots of Spurious Emissions for Part 22H

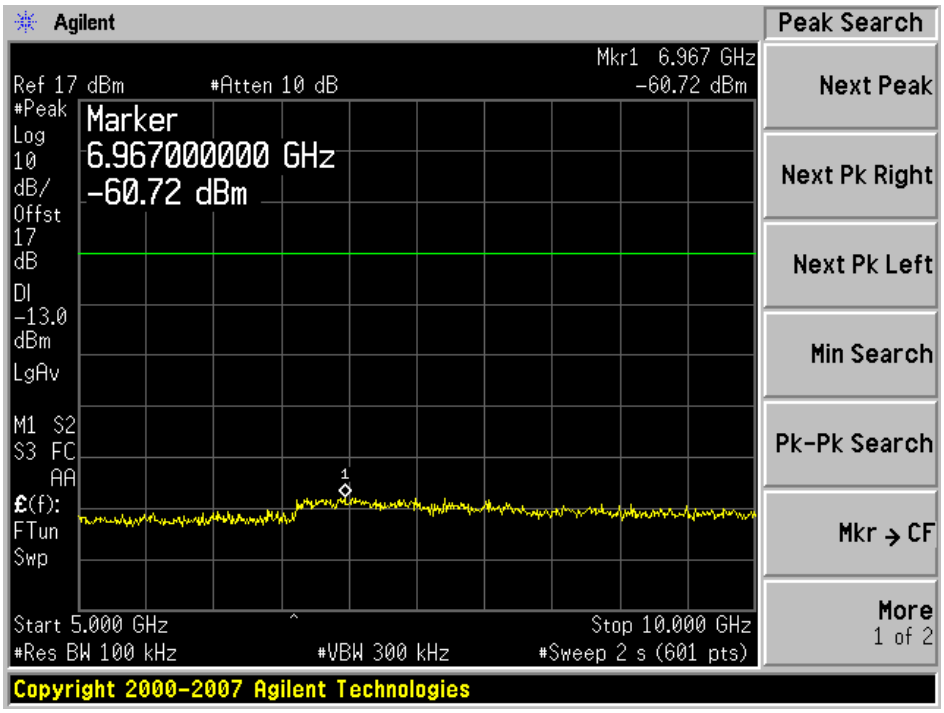
Middle Channel (f = 836.6 MHz)



Plot 1a: 30MHz – 1GHz



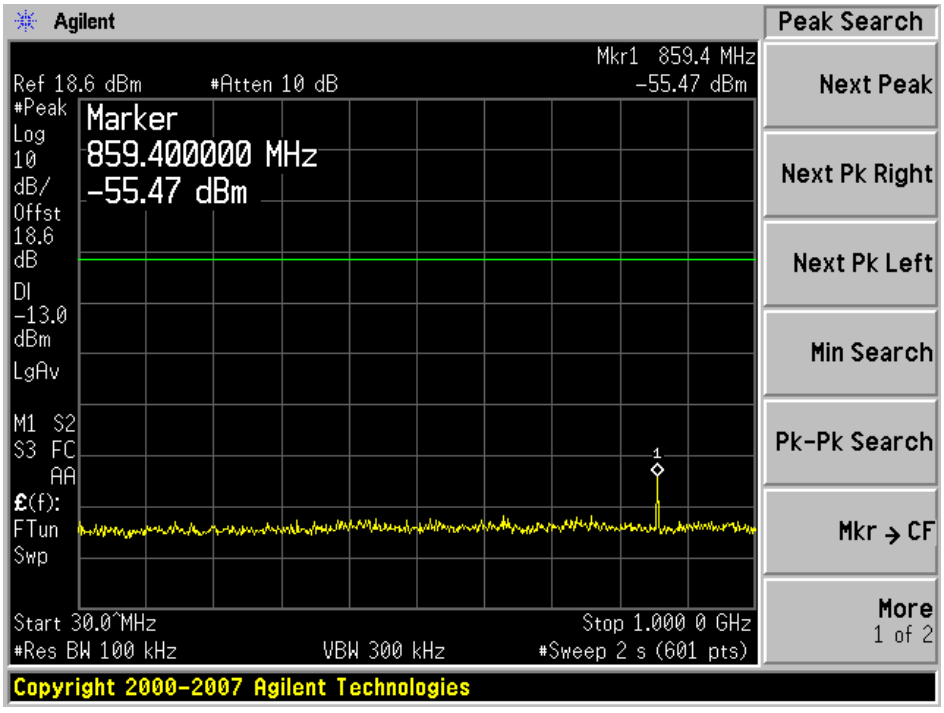
Plot 2a: 1GHz – 5GHz



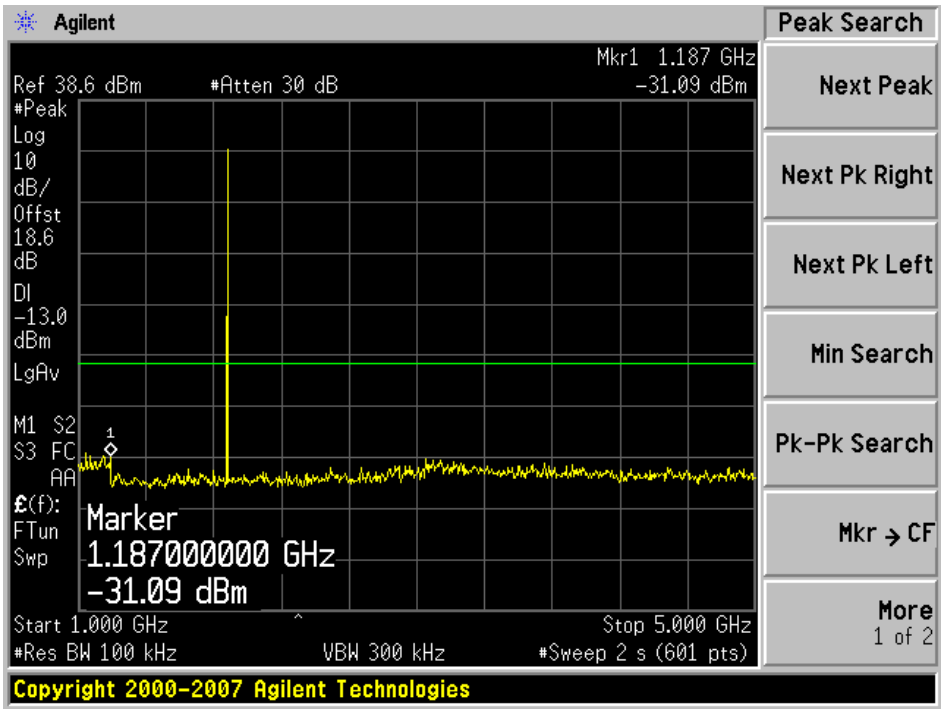
Plot 3a: 5GHz – 10GHz

Plots of Spurious Emissions for Part 24E

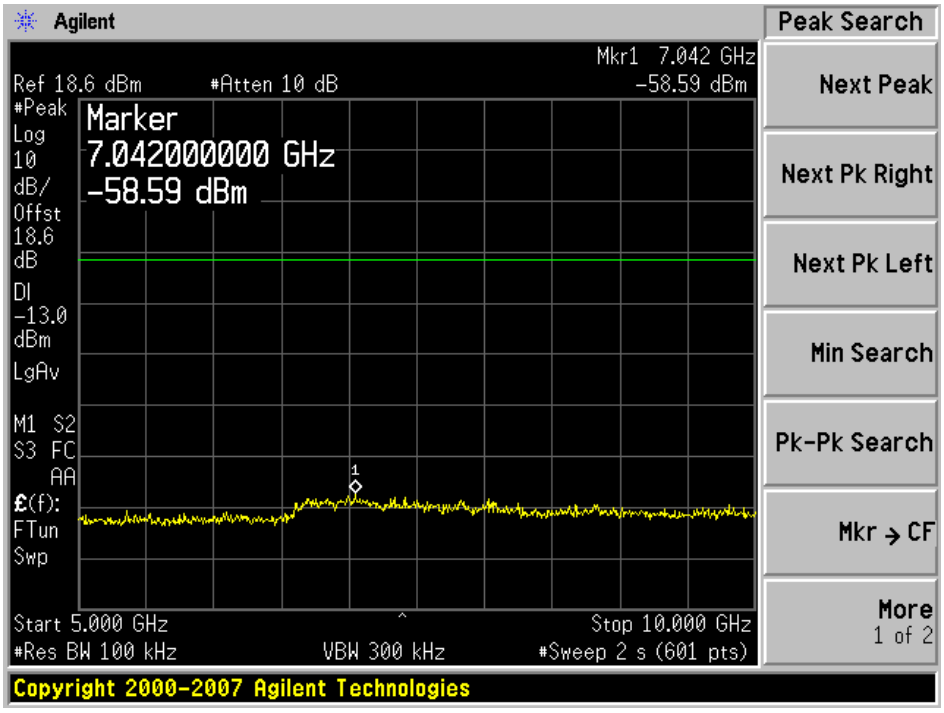
Middle Channel (f = 1880 MHz)



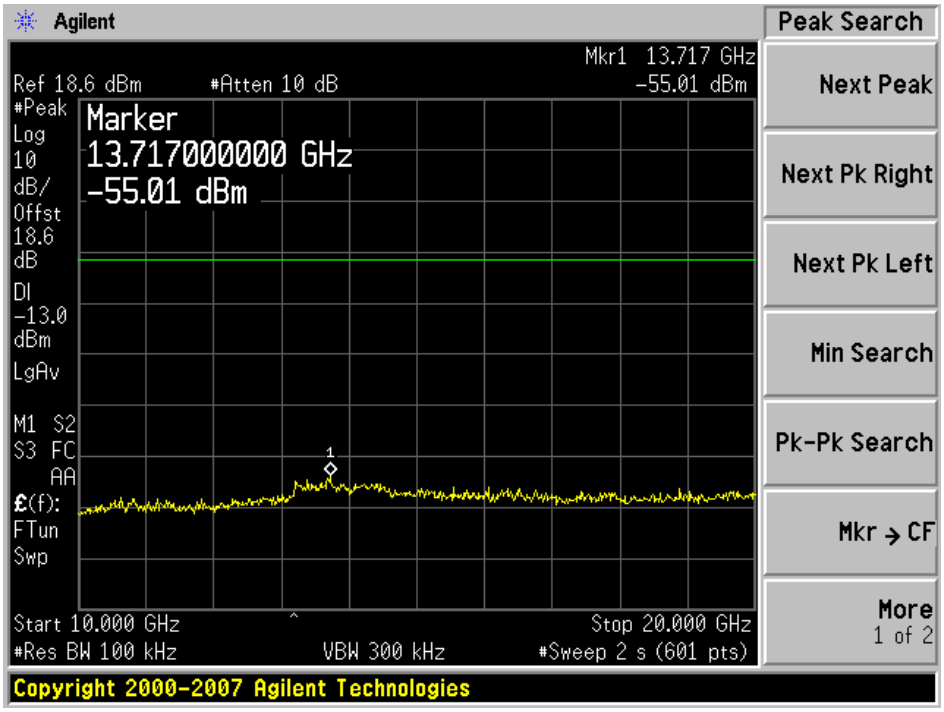
Plot 1b: 30MHz – 1GHz



Plot 2b: 1GHz – 5GHz



Plot 3b: 5GHz – 10GHz



Plot 4b: 10GHz – 20GHz

10 §2.1055 (a), §2.1055 (d), §22.355, & §24.235 - FREQUENCY STABILITY

10.1 Applicable Standard

Requirements: FCC § 2.1055 (a), § 2.1055 (d) & following:

According to §22.355, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency Range (MHz)	Base, fixed (ppm)	Mobile ≤ 3 watts (ppm)	Mobile ≤ 3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929.	5.0	N/A	N/A
929 to 960.	1.5	N/A	N/A
2110 to 2220	10.0	N/A	N/A

According to §24.235, the frequency stability shall be sufficient to ensure that the fundamental emissions stays within the authorized frequency block.

10.2 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to communication test set via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the communication test set.

Frequency Stability vs. Voltage: An external variable DC power supply was connected to the battery terminals of the equipment under test. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the battery end point. The output frequency was recorded for each battery voltage.

10.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Due Date
ESPEC	Temp/ Humidity chamber	ESL-4CA	018010	2008-12-12
R & S	Communication, Radio Universal	CMU200	103492	2009-05-24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2009-04-28

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

10.4 Test Results

Environmental Conditions

Temperature:	21 °C ~ 25 °C
Relative Humidity:	40 % ~ 60 %
ATM Pressure:	101.1 kPa ~ 101.6 kPa

** Testing performed by Jack Liu on 2008-10-8 to 2008-10-14*

Cellular Band Part 22H:

Frequency Stability versus Temperature (battery operated mode)

Reference Frequency: 836.6 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	Power Supplied (Vdc)	Frequency Measure with Time Elapsed		
		Measured Frequency (Hz)	Frequency Error (Hz)	Error (ppm)
50	3.7	836599973	-27	-0.0322735
40	3.7	836599947	-26	-0.0310782
30	3.7	836599921	-26	-0.0310782
20	3.7	836599896	-25	-0.0298829
10	3.7	836599872	-24	-0.0286875
0	3.7	836599900	28	0.0334688
-10	3.7	836599876	-24	-0.0286875
-20	3.7	836599850	-26	-0.0310782
-30	3.7	836599823	-27	-0.0322735

Frequency Stability versus Voltage (battery operated mode)

Reference Frequency: 836.6 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	**Power Supplied (Vdc)**	**Measured Frequency (Hz)**	**Frequency Error (Hz)**	**Error (ppm)**
20	3.4	836599967	-33	-0.03944537
20	3.7	836599976	-24	0.003585943

PCS Band Part 24E:

Frequency Stability versus Temperature (battery operated mode)

Reference Frequency: 1880.0 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	**Power Supplied (Vdc)**	**Frequency Measure with Time Elapsed**		
		Measured Frequency (Hz)	**Frequency Error (Hz)**	**Error (ppm)**
50	3.7	1880000058	58	0.030851
40	3.7	1880000030	30	0.015957
30	3.7	1880000039	39	0.020745
20	3.7	1880000042	42	0.02234
10	3.7	1880000055	55	0.029255
0	3.7	1880000034	34	0.018085
-10	3.7	1880000048	48	0.025532
-20	3.7	1880000047	47	0.025
-30	3.7	1880000042	42	0.02234

Frequency Stability versus Voltage (battery operated mode)

Reference Frequency: 1880.0 MHz, Limit: 2.5ppm				
Environment Temperature (°C)	**Power Supplied (Vdc)**	**Measured Frequency (Hz)**	**Frequency Error (Hz)**	**Error (ppm)**
20	3.4	1880000038	38	0.020213
20	3.7	1880000034	34	0.018085

11 §22.917 & §24.238 – BAND EDGE

11.1 Applicable Standard

According to § 22.917, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to §24.238, the power of any emissions outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

11.2 Test Procedure

The RF output of the transmitter was connected to the input of the spectrum analyzer through sufficient attenuation.

The center of the spectrum analyzer was set to block edge frequency, RBW set to 10 kHz.

11.3 Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Due Date
R & S	Communication, Radio Universal	CMU200	103492	2009-05-24
Agilent	Spectrum Analyzer	E4440A	MY44303352	2009-04-28

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

11.4 Test Results

Environmental Conditions

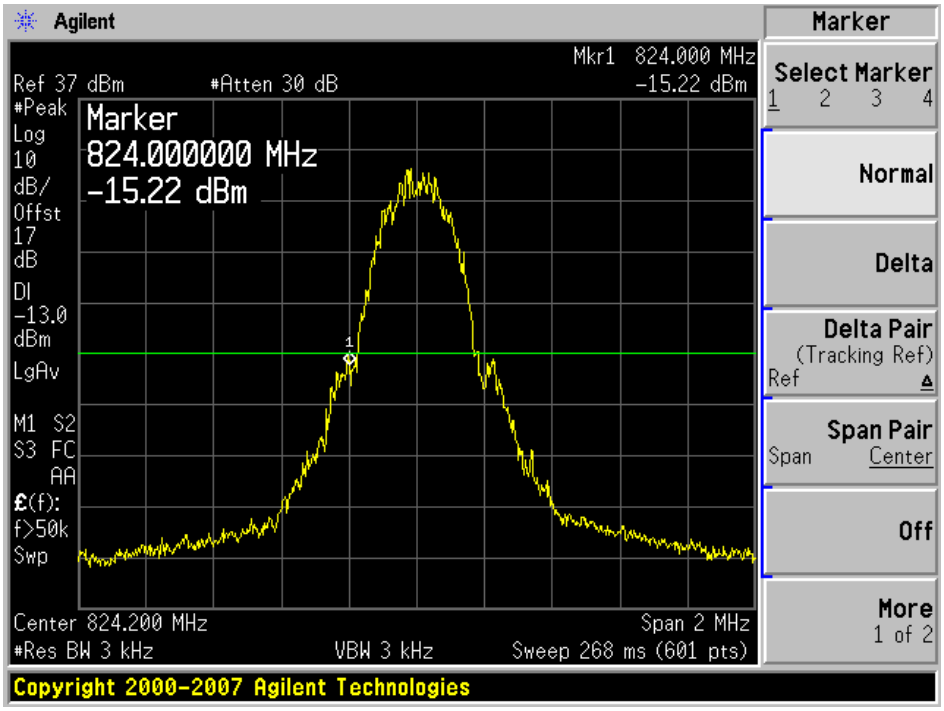
Temperature:	21 °C ~ 25 °C
Relative Humidity:	40 % ~ 60 %
ATM Pressure:	101.1 kPa ~ 101.6 kPa

* *Testing performed by Jack Liu on 2008-10-8 to 2008-10-14*

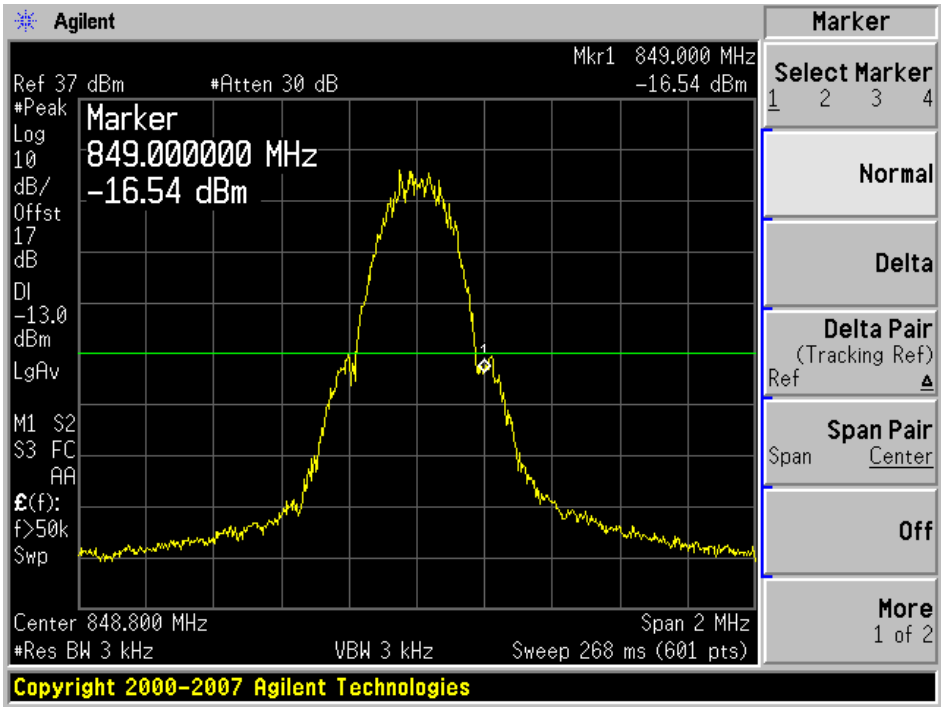
Please refer to the following plots.

Plots of Band Edge for Part 22H

Lowest Channel

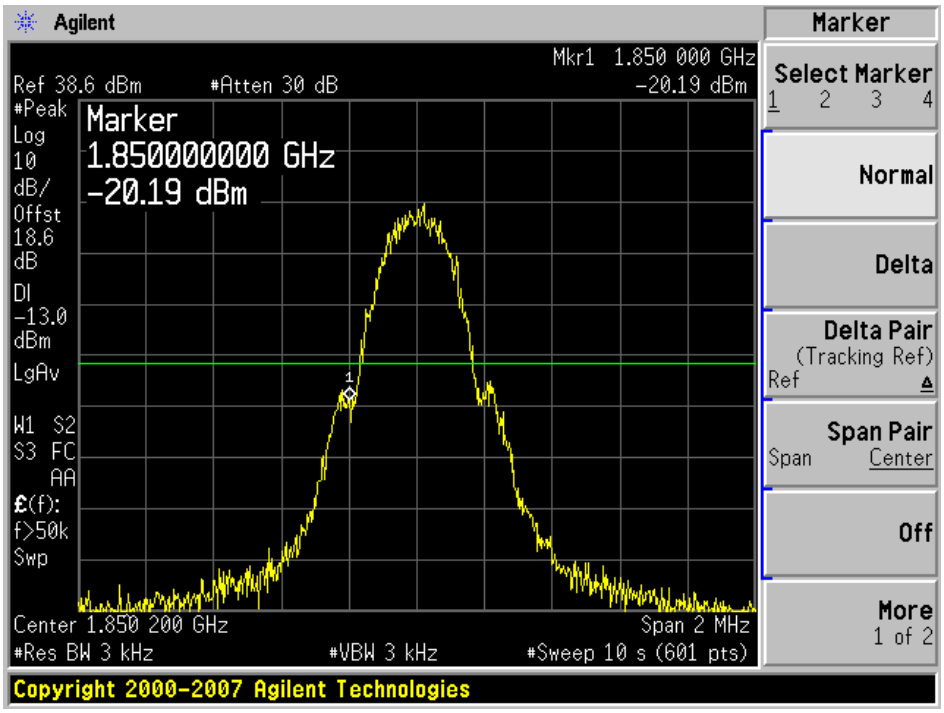


Highest Channel



Plots of Band Edge for Part 24E

Lowest Channel



Highest Channel