

FCC 47 CFR PART 24 SUBPART E TEST REPORT

For

Applicant: Cybercell Communications

Address: Room 1023, Gelin Wangyuan Zhenxing Road, Futian District,

Shenzhen City, China.

Product Name: GSM Mobile Phone

Model Name: CYA35, CYA43, CYA45, CYA32, CYA47, CYA35, CYA50, CYA60,

CYA61, CYA34, CYA52

Brand Name: Cybercell

FCC ID: 2AA5Y-CYA35

Report No.: DPH20130931F02

Date of Issue: October 15, 2013

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| | Revision History | |
|-------|------------------|---------------------|
| Issue | Date | Reason for Revision |
| 1.0 | October 15, 2013 | First edition |
| | | |

1. VERIFICATION OF CONFORMITY

| Equipment Under Test: | GSM Mobile Phone |
|-----------------------------|---|
| Brand Name: | Cybercell |
| Model Number: | CYA35 |
| Series Model Name: | CYA43, CYA45, CYA32, CYA47, CYA35, CYA50, CYA60, CYA61, CYA34, CYA5 |
| Difference description: | Only the model name is different. |
| FCC ID: 2AA5Y-CYA35 | |
| Applicant: | Cybercell Communications |
| | Room 1023, Gelin Wangyuan Zhenxing Road, Futian District, Shenzhen City, China. |
| Manufacturer: | Begin Industrial (H.K.) Co., Ltd. |
| | C6-1701,Heng-Feng industrial city ,xixiang Town,Baoan District, shenzhen, china |
| Tank wise of Ottow download | 47 CFR Part 2 |
| Technical Standards: | 47 CFR Part 24 Subpart E |
| File Number: | DPH1300931F02 |
| Date of test: | September 10,2013 ~ October 15, 2013 |
| Date of issue: | October 15, 2013 |
| Condition of Test Sample: | Normal |
| Test Result: | PASS |

The above equipment was tested by Shenzhen Top-cert Service Co., Ltd. for compliance with the requirement set forth in FCC rules and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):

Rex Luo

Test Engineer

Approved by (+ signature):

Joe Jia

Manager

2. GENERAL INFORMATION

2.1 Product Information

| EUT1- Mobile Phone | | | |
|-------------------------|---------------------------------------|--|--|
| Description: | GSM Mobile Phone | | |
| Brand Name: | Cybercell | | |
| Model Name: | CYA35 | | |
| Hardware Version: | N/A | | |
| Software Version: | N/A | | |
| Г | Tx: 824.2-848.8 MHz 1850.2-1909.8 MHz | | |
| Frequency: | Rx: 849.2-893.8 MHz 1930.2-1989.8 MHz | | |
| Ancillary Equipment – F | Power Supply | | |
| Description: | Travel Charger | | |
| Brand Name: | N/A | | |
| Model Name: | CYA35 | | |
| Rated Input: | AC 100-240V, 50/60Hz, 0.15A | | |
| Rated Output: | DC 5V, 0.5A | | |
| Length USB cable: | 1.0m | | |
| Ancillary Equipment – E | Battery | | |
| Description: | Lithium-ion Battery | | |
| Brand Name: | N/A | | |
| Model Name: | AIRUS | | |
| Capacitance: | 1500 mAh | | |
| Rated Voltage: | 3.7V | | |
| Charge Limit: | 4.2V | | |

NOTE:

- 1. The EUT is a GSM Mobile Station, here only PCS 1900MHz band was tested in this report.
- 2. The transmitter (Tx) frequency arrangement of the PCS 1900MHz band for the EUT can be represented with a formula F(n)=1850.2+0.2*(n-512), $512 \le n \le 810$.
- 3. The normal, high and low voltage supply for the Battery of the EUT is separately 3.7V, 4.2V and 3.6V, which are specified by the applicant.
- 4. Please refer to Appendix 2 for the photographs of the EUT. For a more detailed features description about the EUT, please refer to User's Manual

2.2 Objective

The objective of the report is to perform tests according to 47 CFR Part 2, Part 24 for FCC ID Certification:

| No. | Identity | Document Title |
|-----|-------------------------------------|---|
| 1 | 47 CFR Part 2 (10-1-05 Edition) | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2 | 47 CFR Part 24 (10-1-05 Edition) | Personal Communications Services |

2.3 Test Standards and Results

Test items and the results are as bellow:

| No. | Rules | Test Type | Result | Date of Test |
|-----|-------------------------------|---|--------|--------------|
| 1 | §2.106 §24.229 | Frequencies | PASS | 2013-09-13 |
| 2 | §2.1046 | Conducted RF Output Power at Antenna Terminal | PASS | 2013-09-13 |
| 3 | §2.1049 | Occupied Bandwidth | PASS | 2013-09-13 |
| 4 | §2.1051 §2.1057 §24.238 | Conducted Spurious Emission at Antenna Terminal | PASS | 2013-09-13 |
| 5 | §24.232 | Transmitter Radiated Power (EIPR/ERP) | PASS | 2013-09-13 |
| 6 | §2.1053 §2.1057 §24.238 | Radiated Spurious Emission | PASS | 2013-09-13 |
| 7 | §2.1055 §24.235 | Frequency Stability | PASS | 2013-09-13 |

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

3. TEST FACILITY

| Test Site: | DZT Tooting Toohnology Co. Ltd |
|-----------------------|---|
| rest site. | BZT Testing Technology Co., Ltd. |
| Location: | 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, |
| | Bao'an District, Shenzhen P.R. China. |
| Description: | There is one 3m semi-anechoic an area test sites and two line conducted labs for final test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR 16 requirements. The FCC Registration Number is 701733 |
| Site Filing: | The site description is on file with the Federal Communications Commission, 7435 Oakland Mills Road, Columbia, MD 21046. |
| Instrument Tolerance: | All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency requirement. |
| Ground Plane: | Two conductive reference ground planes were used during the Line Conducted Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. |

4. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at Most for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

| No. Equipment Manufacturer Model No. S/N date due date 1 Test Receiver Rohde & Schwarz ESCI 100492 2013/03/10 2014/03/10 2 Test Receiver Rohde & Schwarz ESPI 101202 2013/03/03 2014/03/10 3 Bi-Log Antenna Sunol JB3 A121206 2013/03/03 2014/03/10 4 Test Antenna – Bi-Log Schwarzbeck VULB 9163 | noti ai | | 1.0 Of 12 of above. | | | | |
|--|---------|---------------------------|---------------------|----------------|------------|-------------|-------------|
| Test Receiver | No | Equipment | Manufacturer | Model No | S/N | Calibration | Calibration |
| 2 Test Receiver Rohde & Schwarz ESPI 101202 2013/03/10 2014/03/1 3 Bi-Log Antenna Sunol JB3 A121206 2013/03/03 2014/03/0 4 Test Antenna – Bi-Log Schwarzbeck VULB 9163 2013/03/03 2014/03/0 5 Horn Antenna ETS 3115 2013/03/03 2014/03/0 6 Test Antenna - Horn Schwarzbeck BBHA 9120C 2013/03/03 2014/03/0 7 Cable Resenberger N/A NO.1 N/A N/A 8 Cable SchwarzBeck N/A NO.2 N/A N/A 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/0 12 Spectrum Analyzer RS FSL 103640/003< | INO. | Equipment | iviandiacturei | Wodel No. | 3/11 | date | due date |
| 3 Bi-Log Antenna Sunol JB3 A121206 2013/03/03 2014/03/04 4 Test Antenna – Bi-Log Schwarzbeck VULB 9163 2013/03/03 2014/03/05 5 Horn Antenna ETS 3115 2013/03/03 2014/03/05 6 Test Antenna - Horn Schwarzbeck BBHA 9120C 2013/03/03 2014/03/05 7 Cable Resenberger N/A NO.1 N/A N/A 8 Cable SchwarzBeck N/A NO.2 N/A N/A 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/05 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/05 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/05 15 Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/05 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/05 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/05 EF920938 2013/03/10 | 1 | Test Receiver | Rohde & Schwarz | ESCI | 100492 | 2013/03/10 | 2014/03/09 |
| 4 Test Antenna – Bi-Log Schwarzbeck VULB 9163 | 2 | Test Receiver | Rohde & Schwarz | ESPI | 101202 | 2013/03/10 | 2014/03/09 |
| 5 Horn Antenna ETS 3115 2013/03/03 2014/03/03 6 Test Antenna - Horn Schwarzbeck BBHA 9120C 2013/03/03 2014/03/03/03 7 Cable Resenberger N/A NO.1 N/A N/A 8 Cable SchwarzBeck N/A NO.2 N/A N/A 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/0 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/0 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 | 3 | Bi-Log Antenna | Sunol | JB3 | A121206 | 2013/03/03 | 2014/03/02 |
| 6 Test Antenna - Horn Schwarzbeck BBHA 9120C — 2013/03/03 2014/03/0 7 Cable Resenberger N/A NO.1 N/A N/A 8 Cable SchwarzBeck N/A NO.2 N/A N/A 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/0 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/ 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas <td>4</td> <td>Test Antenna – Bi-Log</td> <td>Schwarzbeck</td> <td>VULB 9163</td> <td></td> <td>2013/03/03</td> <td>2014/03/02</td> | 4 | Test Antenna – Bi-Log | Schwarzbeck | VULB 9163 | | 2013/03/03 | 2014/03/02 |
| 7 Cable Resenberger N/A NO.1 N/A N/A 8 Cable SchwarzBeck N/A NO.2 N/A N/A 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/6 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/6 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/6 15 Universal Radio Communication Tester CMU200 0304789 2013/03/10 2014/03/6 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/6 17 Temperature Chamber Guangzhou Gongwen <t< td=""><td>5</td><td>Horn Antenna</td><td>ETS</td><td>3115</td><td></td><td>2013/03/03</td><td>2014/03/02</td></t<> | 5 | Horn Antenna | ETS | 3115 | | 2013/03/03 | 2014/03/02 |
| 8 Cable SchwarzBeck N/A NO.2 N/A N/A 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/1 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/1 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/1 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/1 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/1 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply | 6 | Test Antenna - Horn | Schwarzbeck | BBHA 9120C | | 2013/03/03 | 2014/03/02 |
| 9 Cable SchwarzBeck N/A NO.3 N/A N/A 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/0 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/ 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 7 | Cable | Resenberger | N/A | NO.1 | N/A | N/A |
| 10 Power Splitter Weinschel 1506A NW521 N/A N/A 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/0 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/ 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 8 | Cable | SchwarzBeck | N/A | NO.2 | N/A | N/A |
| 11 Spectrum Analyzer Agilent 4408B MY41440460 2013/03/10 2014/03/0 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/ 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 9 | Cable | SchwarzBeck | N/A | NO.3 | N/A | N/A |
| 12 Spectrum Analyzer RS FSL 103640/003 2013/05/12 2014/05/ 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 10 | Power Splitter | Weinschel | 1506A | NW521 | N/A | N/A |
| 13 Coaxial Switch Anritsu Corp MP59B 6200283933 N/A N/A 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 Full Anastacia Chamber Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 11 | Spectrum Analyzer | Agilent | 4408B | MY41440460 | 2013/03/10 | 2014/03/09 |
| 14 Signal Generator IFR 2032 203002/100 2013/03/10 2014/03/0 15 Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 12 | Spectrum Analyzer | RS | FSL | 103640/003 | 2013/05/12 | 2014/05/11 |
| Universal Radio Communication Tester ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A N/A BC Power Supply ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 2014 | 13 | Coaxial Switch | Anritsu Corp | MP59B | 6200283933 | N/A | N/A |
| 15 ROHDE&SCHWARZ CMU200 0304789 2013/03/10 2014/03/0 16 Telecommunication Antenna European Antennas PSA 75301R/170 0304213 2013/03/10 2014/03/0 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 14 | Signal Generator | IFR | 2032 | 203002/100 | 2013/03/10 | 2014/03/09 |
| 17 Temperature Chamber Guangzhou Gongwen GDS-250 N/A N/A N/A 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 15 | | ROHDE&SCHWARZ | CMU200 | 0304789 | 2013/03/10 | 2014/03/09 |
| 18 DC Power Supply Good Will GPS-3030DD EF920938 2013/03/10 2014/03/0 | 16 | Telecommunication Antenna | European Antennas | PSA 75301R/170 | 0304213 | 2013/03/10 | 2014/03/09 |
| Full Anashsia Chambar Albetrasa Ora*Cra*Cra (5.5) | 17 | Temperature Chamber | Guangzhou Gongwen | GDS-250 | N/A | N/A | N/A |
| 19 Full-Anechoic Chamber Albatross 9m*6m*6m (n.a.) 2013/03/10 2014/03/0 | 18 | DC Power Supply | Good Will | GPS-3030DD | EF920938 | 2013/03/10 | 2014/03/09 |
| | 19 | Full-Anechoic Chamber | Albatross | 9m*6m*6m | (n.a.) | 2013/03/10 | 2014/03/09 |

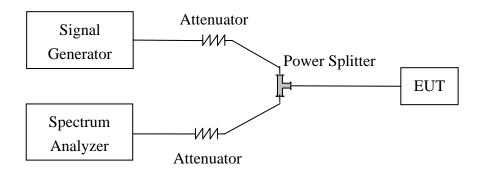
NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR Part 2, Part 24E Requirements

5.1 General Information

5.1.1 Conducted Related Tests

Based on ANSI/TIA-603-C-2004

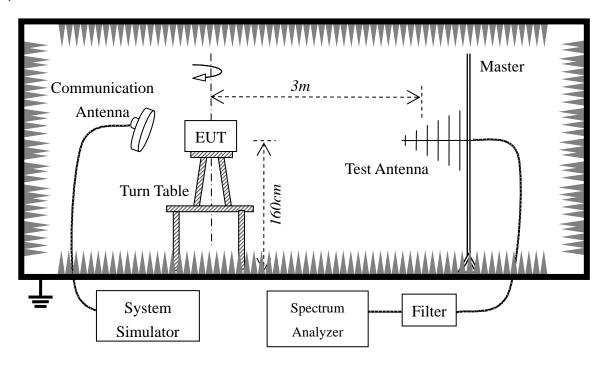


- The EUT is coupled to the Spectrum Analyzer and the System Simulator with the suitable Attenuators
 through the Power Splitter; the path loss is calibrated to correct the reading.
- 2. The EUT is configured here as MS + Battery.
- 3. Set the spectrum analyzer to measure peak hold with the required settings.
- 4. Set the signal generator to a known output power and record the path loss in dB (LOSS) for frequencies up to the tenth harmonic of the EUT's carrier frequency. LOSS = Generator Output Power (dBm) Analyzer reading (dBm).
- 5. Replace the signal generator with the EUT.
- 6. Adjust the settings of the Digital Radio communication Tester (DRT) to set the EUT to its maximum power at the required channel.
- 7. Set the spectrum analyzer to measure peak hold with the required settings. Offset the spectrum analyzer reference level by the path loss measured above.
- 8. Measure and record all spurious emissions up to the tenth harmonic of the carrier frequency.
- Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.
- 10. If necessary steps 7 and 8 may be performed with the spectrum analyzer set to average detector. Note: Step 4 above is performed prior to testing and LOSS is recorded by test software. Steps 3, 7, and 8 above are performed with test software.

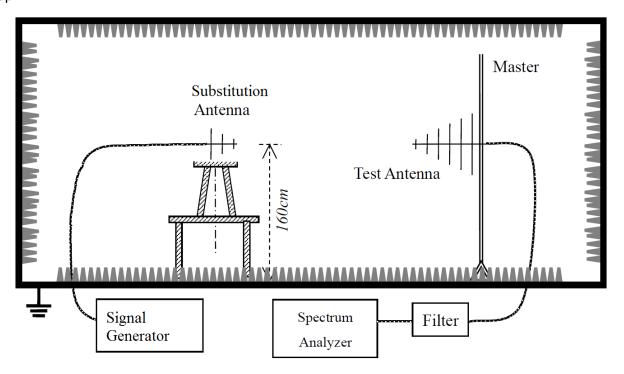
5.1.2 Radiated Power and Spurious Emission Tests

Based on ANSI/TIA-603-C-2004

Setup 1:



Setup 2:

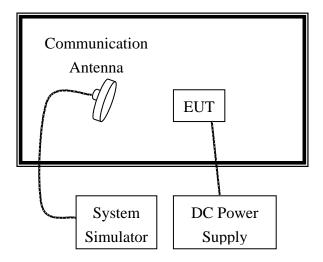


- 1. The test is performed in a full-Anechoic Chamber, the air loss of the site and the factors of the test system are using the substitution method.
- 2. Connect the equipment as shown in setup 1.
- 3. Adjust the setting of System Simulator to set the EUT to its maximum power at the require channel.

4. Set the Spectrum Analyzer to the channel frequency, set the analyzer to measure peak hold with the required setting.

- 5. Rotate the EUT 360 degree, recorded the peak level in dBm(LVL).
- 6. The EUT is substituted by a half wave dipole or known gain antenna. The center of the antenna should be at the same location as the center of the EUT's antenna.
- 7. Connect the antenna to a signal generator and adjust the output power level of the signal generator (SGP) to get same received power recorded in step 5 on the Spectrum Analyze.
- Determine the ERP using the following equation:
 ERP(dBm)=SGP(dBm)+Gain(dB)- Cable Loss(dB)
- Determine the EiRP using the following equation:
 EIRP(dBm)= ERP(dBm)+2.14(dB)
- 10. Measurements are to be performed with the EUT set to the low, middle and high channel of each frequency band.

5.1.3 Frequency Stability Test



- 1. The test is performed in a Temperature Chamber.
- 2. The EUT is configured as MS + DC Power Supply.

6. Conducted RF Output Power

6.1 Requirement

According to FCC §2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in §2.1033(c)(8). The electrical characteristics of the radio frequency load attached to the output terminals when this test is made shall be stated.

6.2 Test Procedure

- 1. Perform test system setup as section 5.1.1 (the radio frequency load attached to the EUT antenna terminal is 50Ω).
- The resolution bandwidth of the Spectrum Analyzer is set to be comparable to the emission bandwidth of the transmitter, e.g. for GSM modulated signal (here used): RBW=VBW=1MHz, for CDMA modulated signal: RBW=VBW=3MHz.
- 3. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 512 as the low channel.
- 4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak and mark it; finally record the peak and the plot.
- 5. Set the TCH number to 661 as the middle channel, then repeat step 4.
- 6. Set the TCH number to 810 as the high channel, then repeat step 4.

6.3 Test Result

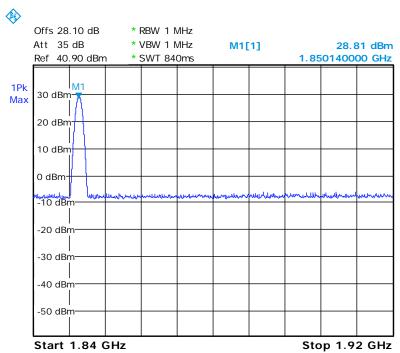
A. Test Verdict:

| Test Mode | Channel Number | Prod Number Frequency | Measured Power | | Rated Power | |
|-----------|----------------|-----------------------|----------------|-------|-------------|---|
| rest wode | Chamile Number | (MHz) | dBm | W | dBm | W |
| | 512 | 1850.2 | 28.81 | 0.760 | 30 | 1 |
| PCS 1900 | 661 | 1880.0 | 29.17 | 0.826 | 30 | 1 |
| | 810 | 1909.8 | 29.28 | 0.847 | 30 | 1 |
| | 512 | 1850.2 | 26.93 | 0.493 | 30 | 1 |
| GPRS 1900 | 661 | 1880.0 | 27.33 | 0.541 | 30 | 1 |
| | 810 | 1909.8 | 27.52 | 0.565 | 30 | 1 |

B. Test Plots:

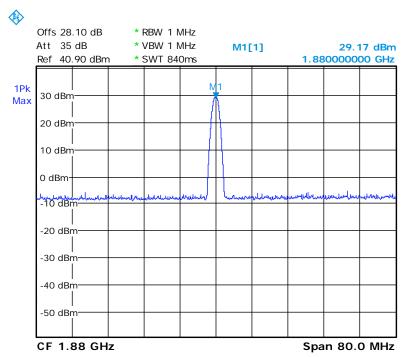
PCS 1900:

1. Plot when the TCH number set to 512:



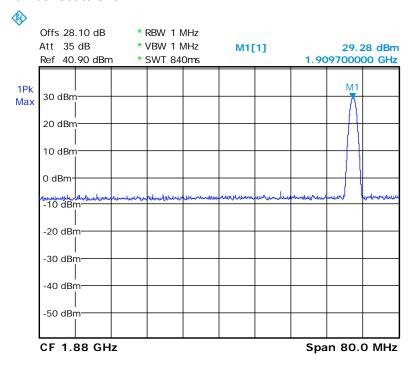
Date: 13.SEP.2013 18:11:48

2. Plot when the TCH number set to 661:



Date: 13.SEP.2013 18:12:54

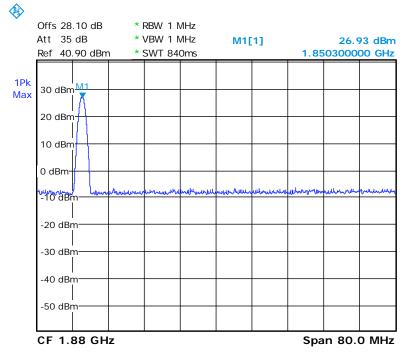
3. Plot when the TCH number set to 810:



Date: 13.SEP.2013 18:13:56

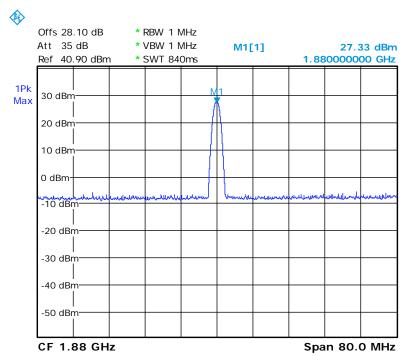
GPRS 1900:

1. Plot when the TCH number set to 512:



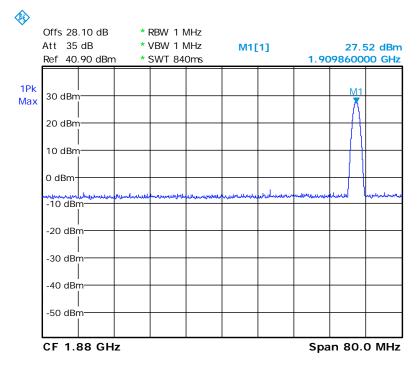
Date: 13.SEP.2013 18:45:58

2. Plot when the TCH number set to 661:



Date: 13.SEP.2013 18:45:27

3. Plot when the TCH number set to 810:



Date: 13.SEP.2013 18:48:31

7. OCCUPIED BANDWIDTH

7.1 Occupied Bandwidth Definition

According to FCC §2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission.

Occupied bandwidth is also known as the 99% emission bandwidth, or 20dB bandwidth (10*log1% is equal to 20dB) taking the total RF output power as reference.

7.2 Test Procedure

- 1. Perform test system setup as section 5.1.1
- 2. The resolution bandwidth of the Spectrum Analyzer is set to at least one percent of the emission bandwidth, e.g. for GSM modulated signal (here used): RBW=VBW=3 kHz, for CDMA modulated signal: RBW=VBW=30 kHz.
- 3. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 512 as the low channel.
- 4. Set the frequency range of the Spectrum Analyzer suitably to capture the waveform; search peak; measurement and record the 99% occupied bandwidth.
- 5. Set the TCH number to 661 as middle channel, then repeat step 4.
- Set the TCH number to 810 as high channel, then repeat step 4.

7.3 Test Result

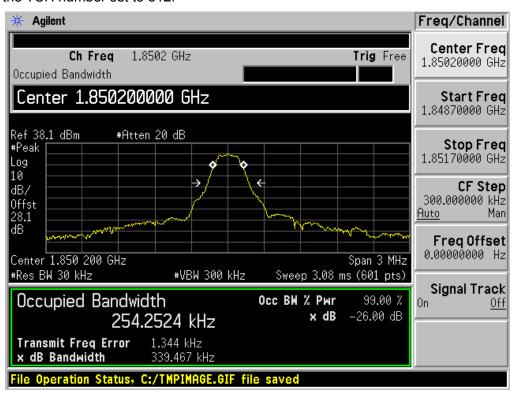
A. Test Verdict:

| Test Mode | Channel | Frequency (MHz) | Measured Occupied Bandwidth (kHz) |
|-----------|---------|-----------------|-----------------------------------|
| | 512 | 1850.2 | 254.2524 |
| PCS 1900 | 661 | 1880.0 | 254.3734 |
| | 810 | 1909.8 | 250.0312 |
| | 512 | 1850.2 | 252.5795 |
| GPRS 1900 | 661 | 1880.0 | 250.7414 |
| | 810 | 1909.8 | 250.3269 |

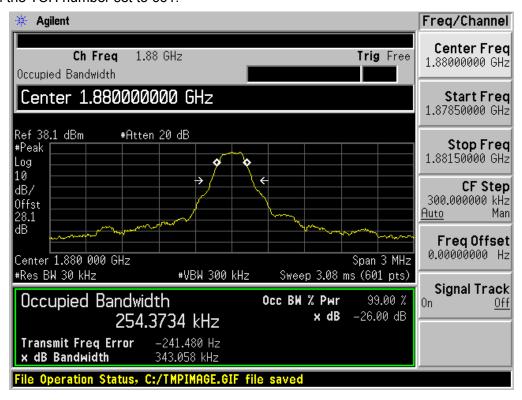
B. Test Plots:

PCS 1900:

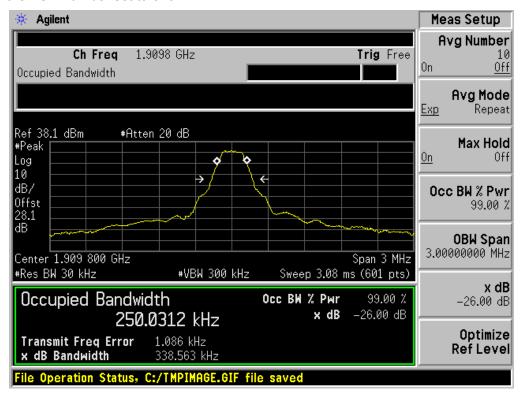
1. Plot when the TCH number set to 512:



2. Plot when the TCH number set to 661:

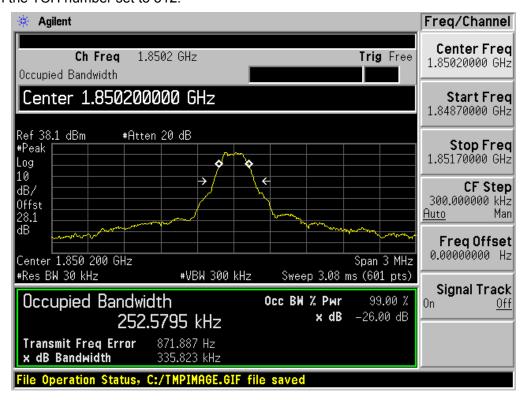


3. Plot when the TCH number set to 810:

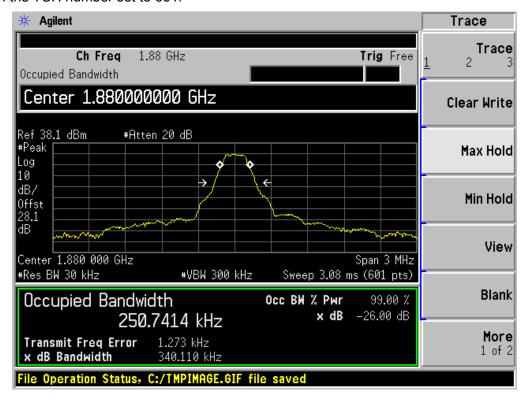


GPRS 1900:

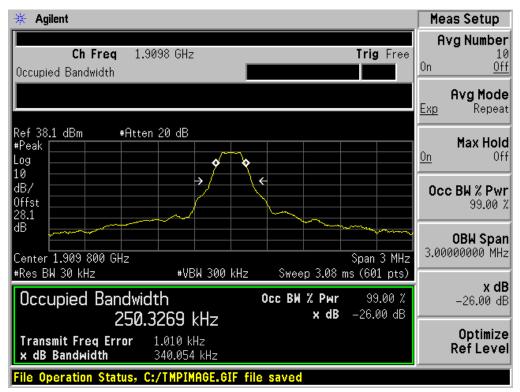
1. Plot when the TCH number set to 512:



2. Plot when the TCH number set to 661:



3. Plot when the TCH number set to 810:



8. CONDUCTED SPURIOUS EMISSION

8.1 Requirement

1. According to FCC §24.238(a), the power of any emission 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. This calculated to be -13dBm.

2. According to FCC §24.238(b), 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. Thus the 26dB emission bandwidth is measurement for showing compliance at the band-edge.

8.2 Test Procedure

- 1. Perform test system setup as section section 5.1.1.
- 2. Make a limit line whose value is -13dBm on the Spectrum Analyzer.
- The lowest, middle and the highest channels are selected to perform tests respectively. Set the TCH number to 512 as the lowest channel.
- 4. Set the RBW of the Spectrum Analyzer to 1MHz, and the measuring frequency range from 9kHz to 10th harmonic of the fundamental frequency (here used 26.5GHz); mark the fundamental frequency and the harmonics thereof; finally record the harmonics and the plot. Note, the measuring frequency range can be divided into several parts to perform tests.
- 5. In the 1MHz bands immediately outside and adjacent to the frequency black, the RBW of the Spectrum Analyzer was set to at least one percent of the emission bandwidth of the fundamental emission of the transmitter, e.g. for GSM modulated signal (here used): RBW=3kHz, for CDMA modulated signal: RBW=30kHz.
- 6. Set the TCH number to 661 as the middle channel, then repeat step 4.
- 7. Set the TCH number to 810 as the highest channel, then repeat step 4 and 5.

8.3 Test Result

Table for the Harmonics and Plots for the Spurious Emission

1. Table for the Harmonics:

NOTE: "---" in the table following means that the emission power was too small to be measured and was at least 12dB below the limit.

| No. | Frequency (MHz) | Emission Power (dBm) | Limit (dBm) |
|-----|-----------------|--------------------------------------|-------------|
| | PCS 1900 | TCH number set to 512 (1850.20MHz) | |
| 1 | 3700.40 | | -13 |
| 2 | 5550.60 | | -13 |
| 3 | 7400.80 | | -13 |
| 4 | 9251.00 | | -13 |
| 5 | 11101.20 | | -13 |
| 6 | 12951.40 | | -13 |
| 7 | 14801.60 | | -13 |
| 8 | 16651.80 | | -13 |
| 9 | 18502.00 | | -13 |
| | | TCH number set to 661 (1880.00MHz) | |
| 10 | 3760.00 | | -13 |
| 11 | 5640.00 | | -13 |
| 12 | 7520.00 | | -13 |
| 13 | 9400.00 | | -13 |
| 14 | 11280.00 | | -13 |
| 15 | 13160.00 | | -13 |
| 16 | 15040.00 | | -13 |
| 17 | 16920.00 | | -13 |
| 18 | 18800.00 | | -13 |
| | | TCH number set to 810 (1909.80MHz) | 1 |
| 19 | 3819.60 | | -13 |
| 20 | 5729.40 | | -13 |
| 21 | 7639.20 | | -13 |
| 22 | 9549.00 | | -13 |
| 23 | 11458.80 | | -13 |
| 24 | 13368.60 | | -13 |
| 25 | 15278.40 | | -13 |
| 26 | 17188.20 | | -13 |
| 27 | 19098.00 | | -13 |
| | GPRS 1900 | 0-TCH number set to 512 (1850.20MHz) | |
| 1 | 3700.40 | | -13 |
| 2 | 5550.60 | | -13 |
| 3 | 7400.80 | | -13 |
| 4 | 9251.00 | | -13 |
| 5 | 11101.20 | | -13 |
| 6 | 12951.40 | | -13 |
| 7 | 14801.60 | | -13 |
| 8 | 16651.80 | | -13 |
| 9 | 18502.00 | | -13 |
| | | 0-TCH number set to 661 (1880.00MHz) | • |
| 10 | 3760.00 | | -13 |
| 11 | 5640.00 | | -13 |
| 12 | 7520.00 | | -13 |
| 13 | 9400.00 | | -13 |

| 14 | 11280.00 | | -13 |
|----|--------------------|----------------------------|-----|
| 15 | 13160.00 | | -13 |
| 16 | 15040.00 | | -13 |
| 17 | 16920.00 | | -13 |
| 18 | 18800.00 | | -13 |
| | GPRS 1900-TCH numb | er set to 810 (1909.80MHz) | |
| 19 | 3819.60 | | -13 |
| 20 | 5729.40 | | -13 |
| 21 | 7639.20 | | -13 |
| 22 | 9549.00 | | -13 |
| 23 | 11458.80 | | -13 |
| 24 | 13368.60 | | -13 |
| 25 | 15278.40 | | -13 |
| 26 | 17188.20 | | -13 |
| 27 | 19098.00 | | -13 |

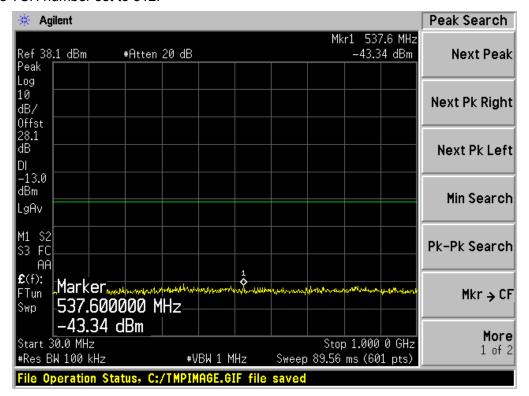
2. Plot for Spurious Emission:

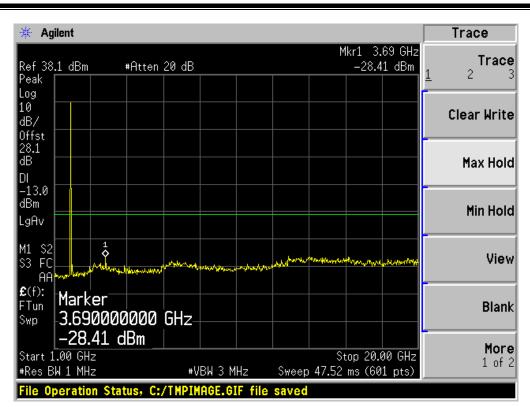
The measuring frequency range was from 9 kHz to 25GHz.

NOTE: The marker points are the Mobile Phone and/or System Simulator transmitting frequencies which should be ignored.

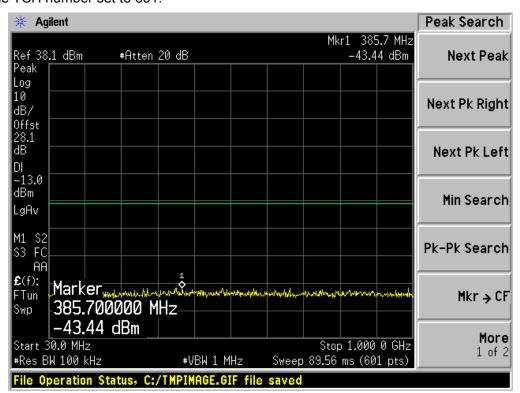
PCS 1900:

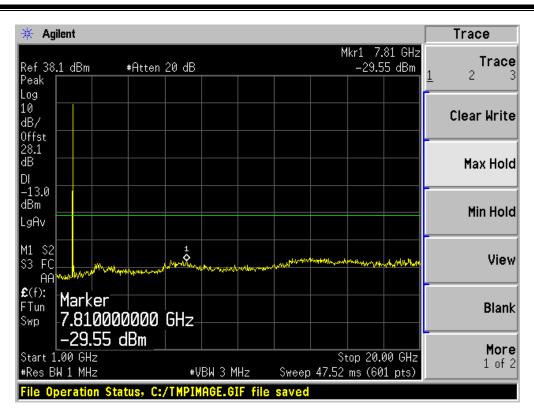
Plot when the TCH number set to 512:



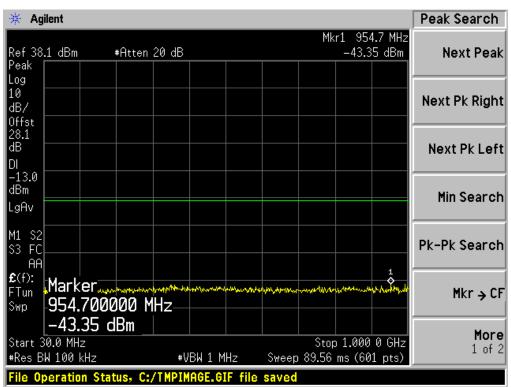


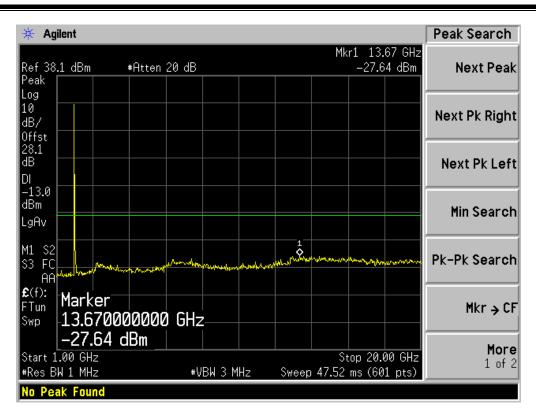
Plot when the TCH number set to 661:





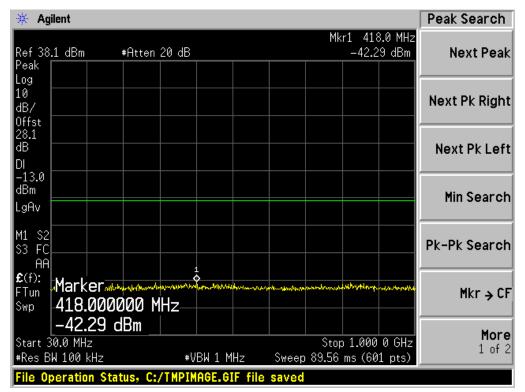
Plot when the TCH number set to 810:

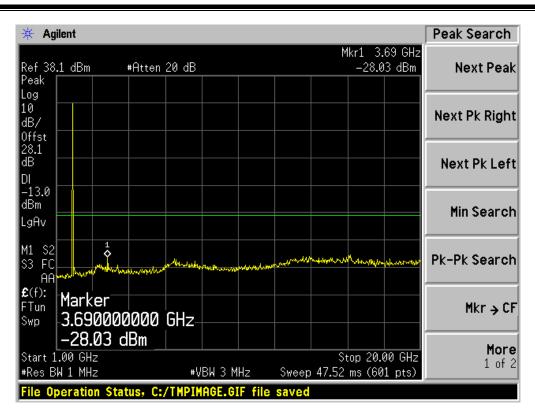




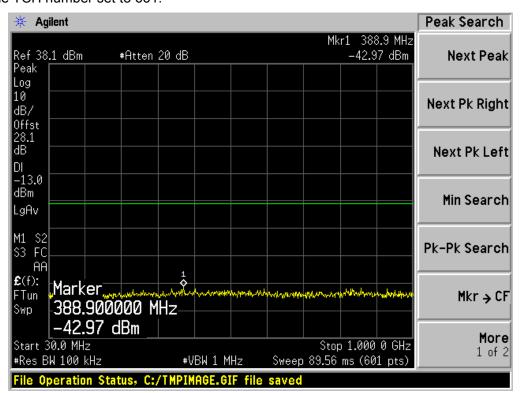
GPRS 1900:

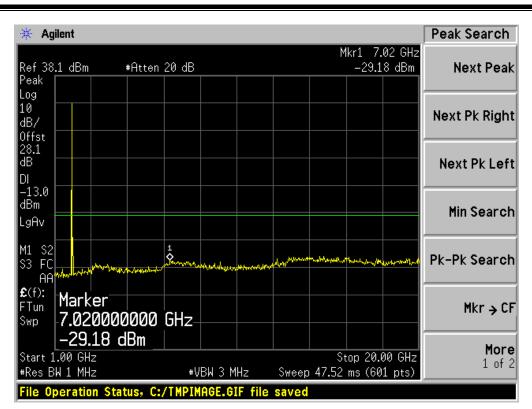
Plot when the TCH number set to 512:



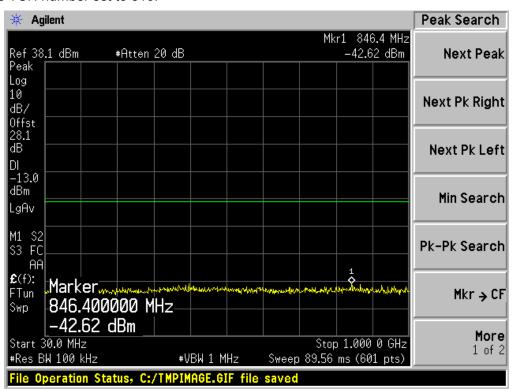


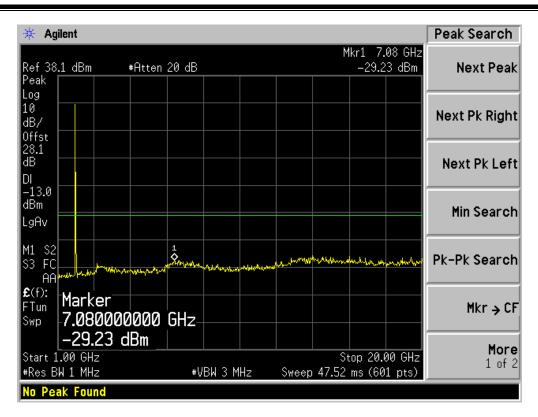
Plot when the TCH number set to 661:





Plot when the TCH number set to 810:

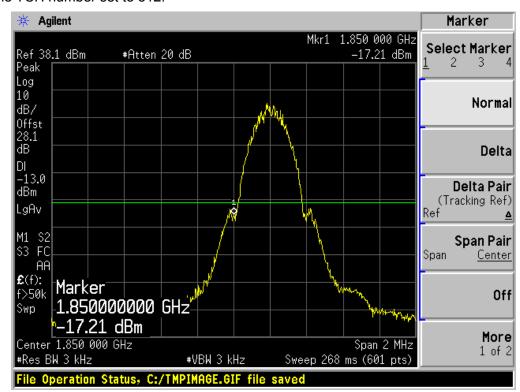




3. Plot for Band-edge

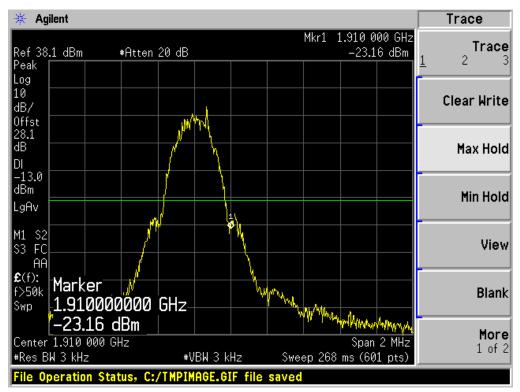
PCS 1900:

Plot when the TCH number set to 512:



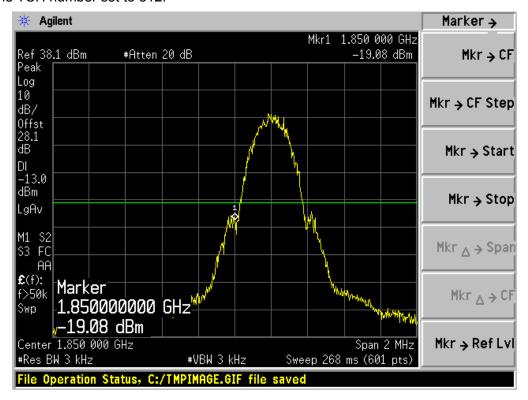
Plot when the TCH number set to 810:

FCC ID: 2AA5Y-CYA35



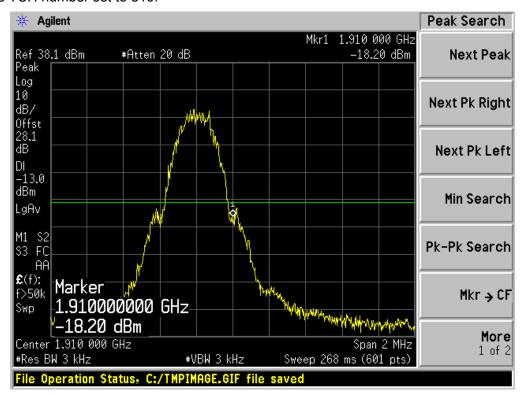
GPRS 1900:

Plot when the TCH number set to 512:



Plot when the TCH number set to 810:

FCC ID: 2AA5Y-CYA35



9. Transmitter Radiated Power (EIRP/ERP)

9.1 Requirement

According to FCC §24.232, the EIRP of Cellular mobile transmitters must not exceed 2 Watts (33dBm) e.i.r.p peak power.

9.2 Test Procedure

See the section 5.1.2.

9.3 Test Result

| Toot Mode | Channel | Frequency (MHz) | Measur | ed EIRP | Limit EIRP | | Dogult |
|-----------|---------|--------------------|--------|---------|------------|-----|--------|
| Test Mode | Channel | | dBm | W | dBm | W | Result |
| | 512 | 1850.20 | 28.48 | 0.705 | < 33.0 | < 2 | PASS |
| PCS 1900 | 661 | 1880.00 | 28.41 | 0.693 | < 33.0 | < 2 | PASS |
| | 810 | 1909.80 | 28.35 | 0.684 | < 33.0 | < 2 | PASS |
| | 512 | 1850.20 | 26.30 | 0.427 | < 33.0 | < 2 | PASS |
| GPRS 1900 | 661 | 1880.00 | 26.69 | 0.467 | < 33.0 | < 2 | PASS |
| | 810 | 1909.80 | 26.74 | 0.472 | < 33.0 | < 2 | PASS |

10. Radiated Spurious Emission

10.1 Requirement

According to FCC §24.238(a), the power of any emission 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. This calculated to be -13dBm.

10.2 Test Procedure

See the section 5.1.2.

10.3 Test Result

Table for the Harmonics

NOTE: "---" in the table following means that the emission power was too small to be measured and was at least 12dB below the limit.

| No. | Frequency (MHz) | Emission F | Limit (dDm) | | | | |
|--|---|------------------------------|-------------------------|-------------|--|--|--|
| NO. | Frequency (MHZ) | Test Antenna Vertical | Test Antenna Horizontal | Limit (dBm) | | | |
| | PCS 1900 TCH number set to 512 (1850.20MHz) | | | | | | |
| 1 | 3700.40 | 35.48 | -38.42 | -13 | | | |
| 2 | 5550.60 | | | -13 | | | |
| 3 | 7400.80 | | | -13 | | | |
| 4 | 9251.00 | | | -13 | | | |
| 5 | 11101.20 | | | -13 | | | |
| 6 | 12951.40 | | | -13 | | | |
| 7 | 14801.60 | | | -13 | | | |
| 8 | 16651.80 | | | -13 | | | |
| 9 | 18502.00 | | | -13 | | | |
| | | PCS 1900 TCH number set to | 661 (1880.0MHz) | | | | |
| 10 | 3760.00 | -36.39 | -38.93 | -13 | | | |
| 11 | 5640.00 | | | -13 | | | |
| 12 | 7520.00 | | | -13 | | | |
| 13 | 9400.00 | | | -13 | | | |
| 14 | 11280.00 | | | -13 | | | |
| 15 | 13160.00 | | | -13 | | | |
| 16 | 15040.00 | | | -13 | | | |
| 17 | 16920.00 | | | -13 | | | |
| 18 | 18800.00 | | | -13 | | | |
| | F | PCS 1900 TCH number set to 8 | 310 (1909.80MHz) | | | | |
| 19 | 3819.60 | -36.28 | -39.49 | -13 | | | |
| 20 | 5729.40 | | | -13 | | | |
| 21 | 7639.20 | | | -13 | | | |
| 22 | 9549.00 | | | -13 | | | |
| 23 | 11458.80 | | | -13 | | | |
| 24 | 13368.60 | | | -13 | | | |
| 25 | 15278.40 | | | -13 | | | |
| 26 | 17188.20 | | | -13 | | | |
| 27 | 19098.00 | | | -13 | | | |
| GPRS 1900-TCH number set to 512 (1850.20MHz) | | | | | | | |
| 1 | 3700.40 | -36.33 | -39.21 | -13 | | | |

| Na | Fraguency (MUL-) | Emission | Livit (ID.) | | |
|-----|------------------|-----------------------------|-------------------------|-------------|--|
| No. | Frequency (MHz) | Test Antenna Vertical | Test Antenna Horizontal | Limit (dBm) | |
| 2 | 5550.60 | | | -13 | |
| 3 | 7400.80 | | | -13 | |
| 4 | 9251.00 | | | -13 | |
| 5 | 11101.20 | | | -13 | |
| 6 | 12951.40 | | | -13 | |
| 7 | 14801.60 | | | -13 | |
| 8 | 16651.80 | | | -13 | |
| 9 | 18502.00 | | | -13 | |
| | (| SPRS 1900-TCH number set to | 661 (1880.0MHz) | | |
| 10 | 3760.00 | -38.62 | -41.85 | -13 | |
| 11 | 5640.00 | | | -13 | |
| 12 | 7520.00 | | | -13 | |
| 13 | 9400.00 | | | -13 | |
| 14 | 11280.00 | | | -13 | |
| 15 | 13160.00 | | | -13 | |
| 16 | 15040.00 | | | -13 | |
| 17 | 16920.00 | | | -13 | |
| 18 | 18800.00 | | | -13 | |
| | G | PRS 1900-TCH number set to | 810 (1909.80MHz) | | |
| 19 | 3819.60 | -38.74 | -42.11 | -13 | |
| 20 | 5729.40 | | | -13 | |
| 21 | 7639.20 | | | -13 | |
| 22 | 9549.00 | | | -13 | |
| 23 | 11458.80 | | | -13 | |
| 24 | 13368.60 | | | -13 | |
| 25 | 15278.40 | | | -13 | |
| 26 | 17188.20 | | | -13 | |
| 27 | 19098.00 | | | -13 | |

11. Frequency Stability

11.1 Frequency Stability Requirement

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

According to FCC §2.1055, the test conditions are:

(a) Temperature:

The temperature is varied from -30°C to +50°C at intervals of not more than 10°C.

(b) Primary Supply Voltage:

For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

11.2 Test Procedure

- 1. Perform test system setup as section 5.1.3.
- 2. Set the voltage of the DC Power Supply to normal supply voltage (here used 3.7V) and the temperature of the Temperature Chamber to vary from -30°C to +50°C at intervals of 10°C.
- 3. At each temperature level, the EUT is powered off and kept in the Temperature Chamber for two hours.
- 4. After sufficient stabilization, turn on the EUT, command it via the System Simulator (SS) to operate at the maximum output power i.e. Power Control Level (PCL) = 0 and Power Class = 1, and then establish a communication link between the EUT and the SS.
- 5. The low, middle and the high channels are selected to perform tests respectively. Set the TCH number to 512 as the low channel.
- 6. The frequency deviation is measured (directly read from the SS, which can report the parameter) within three minutes.
- 7. Set the TCH number to 661 as the middle channel, then repeat step 5.
- 8. Set the TCH number to 810 as the high channel, then repeat step 5.
- 9. Adjust the temperature of the Temperature Chamber as specified in step 2, then repeat step 3 to 7.
- 10. Set the voltage of the DC Power Supply to high extreme supply voltage (here used 4.2V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.
- 11. Set the voltage of the DC Power Supply to low extreme supply voltage (here used 3.6V) and the temperature of the Temperature Chamber to normal (here used +22°C), then repeat step 3 to 8.

11.3 Test Result

| Band | Test Conditions | | Frequency Deviation (Hz) at Channels Used | | | | |
|--------------|-----------------|-------------|---|--------|----------------------|----------------------------|--|
| Danu | Voltage | Temperature | 512 | 661 | 810 | Limit (±1ppm) | |
| | | -30°C | -21.79 | 21.29 | 20.63 | | |
| | | -20°C | 23.39 | -0.23 | -2.42 | | |
| | | -10°C | 3.90 | -8.66 | 24.57 | | |
| | | 0°C | -8.23 | 4.66 | -1.88 | | |
| PCS | V-nor | +10°C | 4.71 | 1.58 | -23.86 | (a) ±1850Hz at 512 Channel | |
| 1900 | | +20°C | 2.93 | 14.96 | 23.89 | (b) ±1880Hz at 661 Channel | |
| 1900 | | +30°C | 21.28 | 9.31 | 26.67 | (c) ±1910Hz at 810 Channel | |
| | | +40°C | 2.42 | -17.64 | -5.92 | | |
| | | +50°C | 23.40 | 20.68 | 12.37 | | |
| | V-high | +22°C | -17.98 | -0.98 | 13.58 | | |
| | V-low | +22°C | 18.01 | -20.34 | -13.07 | | |
| Result: PASS | | | | | | | |
| Dond | Test C | Conditions | Frequency Deviation (Hz) at Channels Used | | Hz) at Channels Used | | |
| Band | Voltage | Temperature | 512 | 661 | 810 | Limit (±1ppm) | |
| | | -30°C | -1.79 | 1.16 | -28.19 | | |
| | 1 | 2202 | 00.00 | 40.00 | 00.04 | 1 | |

| Dond | Test Conditions | | Frequency Deviation (Hz) at Channels Used | | | | |
|------|-----------------|-------------|---|--------|--------|----------------------------|--|
| Band | Voltage | Temperature | 512 | 661 | 810 | Limit (±1ppm) | |
| | | -30°C | -1.79 | 1.16 | -28.19 | | |
| | V-nor | -20°C | 22.32 | 12.02 | 28.01 | | |
| | | -10°C | -9.35 | -24.64 | -15.45 | | |
| | | 0°C | 19.74 | -19.71 | -29.38 | | |
| GPRS | | +10°C | 2.81 | -4.95 | -10.53 | (a) ±1850Hz at 512 Channel | |
| 1900 | | +20°C | -28.41 | 25.14 | 14.30 | (b) ±1880Hz at 661 Channel | |
| 1900 | | +30°C | -18.91 | 2.86 | -15.70 | (c) ±1910Hz at 810 Channel | |
| | | +40°C | 11.78 | 16.74 | -3.22 | | |
| | | +50°C | 19.98 | 10.23 | 15.64 | | |
| | V-high | +22°C | 18.02 | 5.27 | -15.58 | | |
| | V-low | +22°C | -19.05 | 8.33 | 4.55 | | |

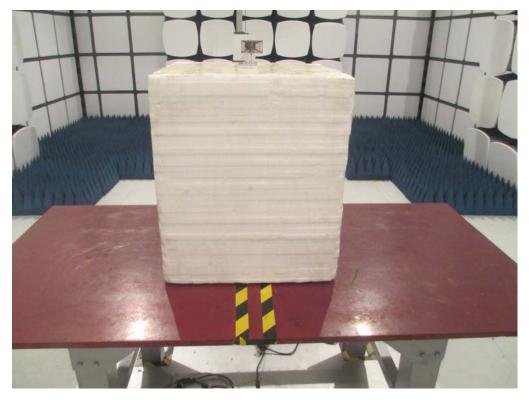
Result: PASS

| FCC ID: 2AA5Y-CYA35 | | Report No.: DPH130931F02 |
|---------------------|--------------------------------------|-----------------------------|
| TOO ID. ZAAST-CTASS | | Report No.: Di Tiloussii 02 |
| | | |
| | APPENDIX 1 PHOTOGRAPHS OF TEST SETUP | |
| | | |
| | | |
| | | |

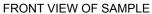
CONDUCTED TEST SETUP



RADIATED EMISSION TEST SETUP



| FCC ID: 2AA5Y-CYA35 | | Report No.: DPH130931F02 |
|---------------------|-------------------------------|--------------------------|
| FCC ID: 2AA5Y-CYA35 | APPENDIX 2 PHOTOGRAPHS OF EUT | Report No.: DPH130931F02 |
| | | |





BACK VIEW OF SAMPLE







RIGHT VIEW OF SAMPLE







DOWN VIEW OF SAMPLE







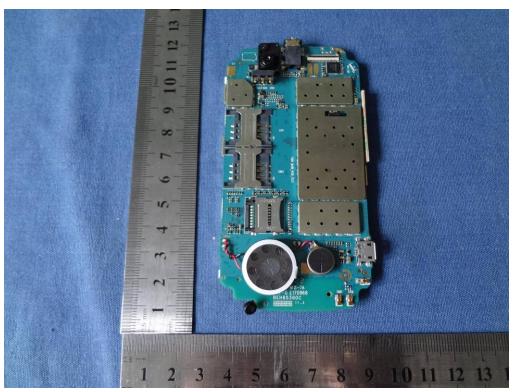
INTERNAL PHOTO OF SAMPLE - 1



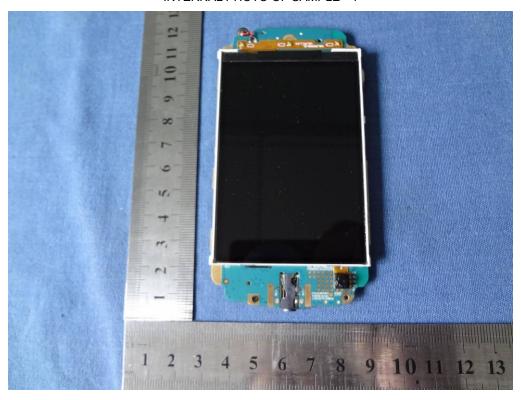
INTERNAL PHOTO OF SAMPLE -2



INTERNAL PHOTO OF SAMPLE - 3



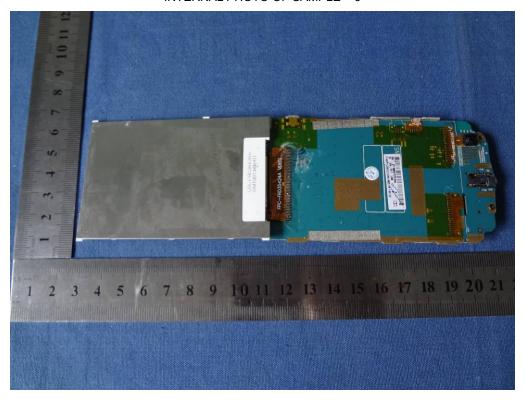
INTERNAL PHOTO OF SAMPLE - 4







INTERNAL PHOTO OF SAMPLE - 6



-----END OF REPORT-----