

# EMC TEST REPORT

**Report No.** : EME-040211

**Model No.** : 36122

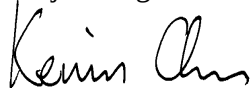
**Issued Date** : Mar. 31, 2004

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Project Engineer



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Kevin Chen

Reviewed By



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Elton Chen

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**Summary of Tests****2.4GHz Cordless Phone -Model: 36122****FCC ID: PEG36121-2**

| Test                           | Reference         | Results  |
|--------------------------------|-------------------|----------|
| Conducted Emission of AC Power | 15.207            | Complies |
| Radiated Emission test         | 15.249(c), 15.209 | Complies |

## 1. General information

### 1.1 Identification of the EUT

|                                     |                                                                      |
|-------------------------------------|----------------------------------------------------------------------|
| Applicant                           | : SENTON Enterprises Limited                                         |
| Product                             | : 2.4GHz Cordless Phone                                              |
| Model No.                           | : 36122                                                              |
| FCC ID.                             | : PEG36121-2                                                         |
| Frequency Range                     | : 2402.55~ 2475.95MHz                                                |
| Channel Number                      | : 40 channels                                                        |
| Frequency of Each Channel (Base)    | : Tx: 2402.55 + 0.05k MHz, k=0~39<br>Rx: 2474.00 + 0.05k MHz, k=0~39 |
| Frequency of Each Channel (Handset) | : Tx: 2474.00 + 0.05k MHz, k=0~39<br>Rx: 2402.55 + 0.05k MHz, k=0~39 |
| Type of Modulation                  | : FM                                                                 |
| Power Supply (Base)                 | : 120Vac, 60Hz with adapter                                          |
| Rated Power (Handset)               | : 3.6Vdc battery                                                     |
| Power Cord                          | : N/A                                                                |
| Sample Received                     | : Mar. 12, 2004                                                      |
| Test Date(s)                        | : Mar. 15, 2004 to Mar. 24, 2004                                     |

### 1.2 Additional information about the EUT

The EUT is a Cordless Phone, it consists one handset, which operated at 2474MHz – 2475.95MHz and one base that operated at 2402.55 – 2404.50MHz.

We verify that 36121 is series model to 36122 (EUT), because 36121 and 36122 use the same handset, and the difference is only on the circuit of charger of base unit.

The EUT has two types of base, one of which can connect with RJ-11 port, and the other has charger function only. Under this condition, we define the base as charger 1 (with RJ-11 port) and charger 2 (charger function only) for EUT in this report. For detailed test items, please see table below:

| Test Item<br>Model No. | Radiated Emission Test |            | Conduction test |
|------------------------|------------------------|------------|-----------------|
|                        | Below 1GHz             | Above 1Ghz |                 |
| 36121(Series model)    | ü                      | ü          | ü               |
| 36122 (with charger 1) | ü                      | ü          | ü               |
| 36122 (with charger 2) | ü                      |            | ü               |

We test the Radiated Emission for handset of EUT only.

For more detail features, please refer to User's manual as file name “Installation guide.pdf”

### 1.3 Antenna description

The EUT uses a permanently connected antenna.

Antenna Gain : 0dBi

Antenna Type : Copper Wire

Connector Type : Soldering

### 1.4 Peripherals equipment

| Peripherals | Manufacturer | Product No. | Serial No. | FCC ID              |
|-------------|--------------|-------------|------------|---------------------|
| Phone       | Tentel       | K-903S      | 0514000941 | FCC DoC<br>Approved |

### 1.5 Supporting equipment

| Peripherals    | Manufacturer | Product No.  | Serial No. |
|----------------|--------------|--------------|------------|
| Exchange Board | Tentel       | 250-00193-07 | 94948      |

## **2. Test specifications**

### **2.1 Test standard**

The EUT was performed according to the procedures in FCC Part 15 Subpart C Paragraph 15.249 for non-spread spectrum devices.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

### **2.2 Operation mode**

During conduction test, it worked in normal operating mode.  
While in other test, it worked in the status of continuously transmitting.

## 2.4 Test equipment

| Equipment         | Brand           | Frequency range | Model No.                    | Series No. | Last Cal.Date  |
|-------------------|-----------------|-----------------|------------------------------|------------|----------------|
| EMI Test Receiver | Rohde & Schwarz | 9kHz~2.75GHz    | ESCS 30                      | 825788/014 | Feb. 18, 2004  |
| EMI Test Receiver | Rohde & Schwarz | 20Hz~26.5GHz    | ESMI                         | 825428/005 | June 10, 2003  |
| Spectrum Analyzer | Rohde & Schwarz | 9kHz~30GHz      | FSP 30                       | 100137     | July 10, 2003  |
| Horn Antenna      | EMCO            | 1GHz~18GHz      | 3115                         | 9906-5890  | Sep. 19, 2003  |
| Horn Antenna      | SCHWARZBECK     | 14GHz~40GHz     | BBHA 9170                    | 159        | June 20, 2003  |
| Bilog Antenna     | SCHWARZBECK     | 25MHz~1.7GHz    | VULB 9160                    | 3133       | Feb. 21, 2004  |
| Turn Table        | HDGmbH          | N/A             | DS 420S                      | 420/669/01 | N/A            |
| Antenna Tower     | HDGmbH          | N/A             | MA 240                       | 240/573    | N/A            |
| Pre-Amplifier     | MITEQ           | 0.1GHz~26.5GHz  | AFS42-001026<br>50-42-10P-42 | 919981     | April 14, 2003 |
| LISN              | Rohde & Schwarz | 9KHz~30MHz      | ESH3-Z5                      | EC344      | Jan. 20, 2004  |

Note: The above equipments are within the valid calibration period.

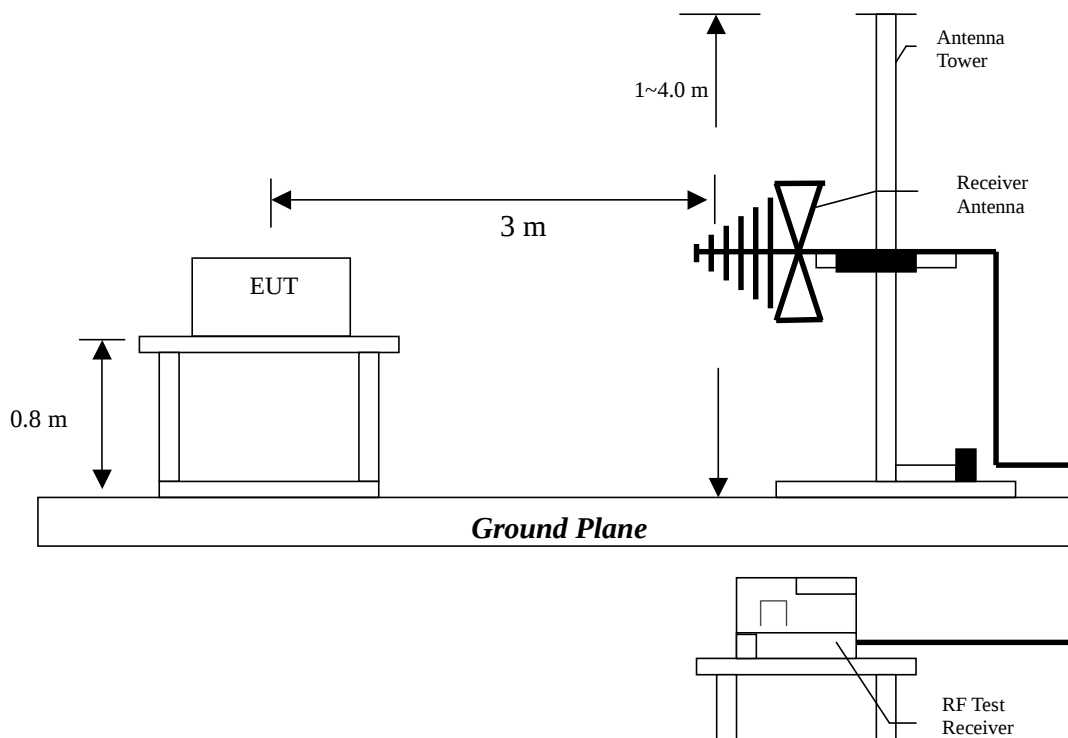
### 3. Radiated emission test FCC 15.249 (C)

#### 3.1 Operating environment

|                      |      |     |               |
|----------------------|------|-----|---------------|
| Temperature:         | 21   | °C  | (10-40°C)     |
| Relative Humidity:   | 55   | %   | (10-90%)      |
| Atmospheric Pressure | 1010 | hPa | (860-1060hPa) |

#### 3.2 Test setup & procedure

The Diagram below shows the test setup, which is utilized to make these measurements.



Radiated emissions were investigated cover the frequency range from 30MHz to 1000MHz using a receiver RBW of 120kHz record QP reading, and the frequency over 1GHz using a spectrum analyzer RBW of 1MHz and 10Hz VBW record Average reading. (15.209 paragraph), the Peak reading (1MHz RBW/VBW) recorded also on the report.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent three-meter reading using inverse scaling with distance.



**Setup 1**



**Setup 2**



**Setup 3**

The worst case condition was found in setup1 and recorded in this report.

The EUT configuration please refers to the “Spurious set-up photo.pdf”.

### 3.3 Emission limit

#### 3.3.1 Fundamental and harmonics emission limits

| Frequency (MHz) | Field Strength of Fundamental |             | Field Strength of Harmonics |             |
|-----------------|-------------------------------|-------------|-----------------------------|-------------|
|                 | (mV/m@3m)                     | (dBuV/m@3m) | (uV/m@3m)                   | (dBuV/m@3m) |
| 2400~2483.5     | 50                            | 94          | 500                         | 54          |

### 3.3.2 General radiated emission limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| Frequency<br>MHz | 15.209 Limits<br>(dB $\mu$ V/m@3m) |
|------------------|------------------------------------|
| 30-88            | 40                                 |
| 88-216           | 43.5                               |
| 216-960          | 46                                 |
| Above 960        | 54                                 |

Remark:

1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna  
And the closed point of any part of the device or system

Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of radiated emission measurement is  $\pm 4.98$  dB.

Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.02$  dB.

### 3.4 Radiated spurious emission test data

#### 3.4.1 Measurement results: frequencies equal to or less than 1 GHz

EUT : 36121  
Test Unit : Base  
Test Condition : Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(cm) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|-------------------------|------------------------------------|
| 59.10000           | QP                               | V                            | 12.90                          | 3.00              | 15.90                          | 40.00                    | -24.10         | 1.20                    | 302                                |
| 163.90000          | QP                               | V                            | 14.92                          | 2.70              | 17.62                          | 43.50                    | -25.88         | 1.21                    | 205                                |
| 340.40000          | QP                               | V                            | 15.56                          | 2.70              | 18.26                          | 46.00                    | -27.74         | 1.42                    | 147                                |
| 544.10000          | QP                               | V                            | 19.60                          | 3.00              | 22.60                          | 46.00                    | -23.40         | 1.00                    | 185                                |
| 800.20000          | QP                               | V                            | 23.89                          | 11.50             | 35.39                          | 46.00                    | -10.61         | 2.54                    | 312                                |
| 899.10000          | QP                               | V                            | 24.51                          | 3.70              | 28.21                          | 46.00                    | -17.79         | 2.58                    | 56                                 |
| 158.00000          | QP                               | H                            | 14.76                          | 1.90              | 16.66                          | 43.50                    | -26.84         | 1.50                    | 45                                 |
| 171.60000          | QP                               | H                            | 14.29                          | 3.40              | 17.69                          | 43.50                    | -25.81         | 2.10                    | 204                                |
| 408.30000          | QP                               | H                            | 16.94                          | 3.00              | 19.94                          | 46.00                    | -26.06         | 2.74                    | 38                                 |
| 590.70000          | QP                               | H                            | 20.62                          | 2.60              | 23.22                          | 46.00                    | -22.78         | 3.00                    | 185                                |
| 786.60000          | QP                               | H                            | 23.49                          | 3.80              | 27.29                          | 46.00                    | -18.71         | 2.60                    | 94                                 |
| 800.20000          | QP                               | H                            | 23.89                          | 10.80             | 34.69                          | 46.00                    | -11.31         | 3.20                    | 358                                |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36121  
 Test Unit : Base  
 Test Condition : Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|------------------------|------------------------------------|
| 59.10000           | QP                               | V                            | 12.90                          | 3.80              | 16.70                          | 40.00                    | -23.30         | 1.10                   | 315                                |
| 156.10000          | QP                               | V                            | 14.76                          | 1.40              | 16.16                          | 43.50                    | -27.34         | 1.25                   | 25                                 |
| 332.60000          | QP                               | V                            | 14.99                          | 2.40              | 17.39                          | 46.00                    | -28.61         | 1.00                   | 178                                |
| 425.80000          | QP                               | V                            | 17.37                          | 2.90              | 20.27                          | 46.00                    | -25.73         | 1.89                   | 64                                 |
| 573.20000          | QP                               | V                            | 19.99                          | 2.60              | 22.59                          | 46.00                    | -23.41         | 2.05                   | 258                                |
| 802.10000          | QP                               | V                            | 23.89                          | 11.10             | 34.99                          | 46.00                    | -11.01         | 2.14                   | 14                                 |
| 342.30000          | QP                               | H                            | 15.56                          | 2.70              | 18.26                          | 46.00                    | -27.74         | 2.50                   | 94                                 |
| 406.40000          | QP                               | H                            | 16.94                          | 3.10              | 20.04                          | 46.00                    | -25.96         | 2.78                   | 211                                |
| 497.50000          | QP                               | H                            | 18.61                          | 3.30              | 21.91                          | 46.00                    | -24.09         | 3.02                   | 59                                 |
| 600.40000          | QP                               | H                            | 20.88                          | 2.90              | 23.78                          | 46.00                    | -22.22         | 3.25                   | 158                                |
| 7767.20000         | QP                               | H                            | 27.50                          | 3.60              | 31.10                          | 54.00                    | -22.90         | 2.74                   | 87                                 |
| 802.10000          | QP                               | H                            | 23.89                          | 10.50             | 34.39                          | 46.00                    | -11.61         | 2.00                   | 341                                |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36122 (with charger 1)  
Test Unit : Base  
Test Condition : Tx at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|------------------------|------------------------------------|
| 59.10000           | QP                               | V                            | 12.90                          | 4.10              | 17.00                          | 40.00                    | -23.00         | 1.14                   | 300                                |
| 468.40000          | QP                               | V                            | 18.21                          | 3.50              | 21.71                          | 46.00                    | -24.29         | 1.24                   | 98                                 |
| 608.10000          | QP                               | V                            | 20.88                          | 3.00              | 23.88                          | 46.00                    | -22.12         | 1.02                   | 168                                |
| 751.70000          | QP                               | V                            | 23.40                          | 3.40              | 26.80                          | 46.00                    | -19.20         | 1.54                   | 187                                |
| 800.20000          | QP                               | V                            | 23.89                          | 16.60             | 40.49                          | 46.00                    | -5.51          | 1.85                   | 78                                 |
| 827.30000          | QP                               | V                            | 24.46                          | 6.20              | 30.66                          | 46.00                    | -15.34         | 2.05                   | 45                                 |
| 115.40000          | QP                               | H                            | 11.80                          | 4.00              | 15.80                          | 43.50                    | -27.70         | 2.71                   | 74                                 |
| 158.00000          | QP                               | H                            | 14.76                          | 2.50              | 17.26                          | 43.50                    | -26.24         | 1.56                   | 35                                 |
| 280.30000          | QP                               | H                            | 14.07                          | 2.50              | 16.57                          | 46.00                    | -29.43         | 1.77                   | 251                                |
| 800.20000          | QP                               | H                            | 23.89                          | 15.10             | 38.99                          | 46.00                    | -7.01          | 2.21                   | 354                                |
| 827.30000          | QP                               | H                            | 24.46                          | 5.50              | 29.96                          | 46.00                    | -16.04         | 3.20                   | 244                                |
| 893.30000          | QP                               | H                            | 24.51                          | 7.00              | 31.51                          | 46.00                    | -14.49         | 2.85                   | 196                                |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36122 (with charger 1)  
 Test Unit : Base  
 Test Condition : Tx at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|------------------------|------------------------------------|
| 43.60000           | QP                               | V                            | 12.96                          | 5.40              | 18.36                          | 40.00                    | -21.64         | 1.25                   | 254                                |
| 59.10000           | QP                               | V                            | 12.90                          | 4.90              | 17.80                          | 40.00                    | -22.20         | 1.04                   | 64                                 |
| 348.20000          | QP                               | V                            | 15.56                          | 2.70              | 18.26                          | 46.00                    | -27.74         | 1.22                   | 147                                |
| 588.70000          | QP                               | V                            | 20.62                          | 3.10              | 23.72                          | 46.00                    | -22.28         | 1.74                   | 185                                |
| 802.10000          | QP                               | V                            | 23.89                          | 19.35             | 43.24                          | 46.00                    | -2.76          | 1.56                   | 74                                 |
| 829.30000          | QP                               | V                            | 24.46                          | 5.90              | 30.36                          | 46.00                    | -15.64         | 1.43                   | 35                                 |
| 109.50000          | QP                               | H                            | 10.92                          | 3.60              | 14.52                          | 43.50                    | -28.98         | 2.49                   | 47                                 |
| 348.20000          | QP                               | H                            | 15.56                          | 2.90              | 18.46                          | 46.00                    | -27.54         | 2.14                   | 58                                 |
| 489.80000          | QP                               | H                            | 18.61                          | 2.70              | 21.31                          | 46.00                    | -24.69         | 1.98                   | 211                                |
| 755.60000          | QP                               | H                            | 23.40                          | 3.00              | 26.40                          | 46.00                    | -19.60         | 1.85                   | 54                                 |
| 802.10000          | QP                               | H                            | 23.89                          | 16.30             | 40.19                          | 46.00                    | -5.81          | 2.54                   | 234                                |
| 829.30000          | QP                               | H                            | 24.46                          | 6.10              | 30.56                          | 46.00                    | -15.44         | 2.35                   | 277                                |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36122 (with charger 2)  
 Test Unit : Base charger only  
 Test Condition : Charger mode

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|------------------------|------------------------------------|
| 53.30000           | QP                               | V                            | 13.07                          | 2.50              | 15.57                          | 40.00                    | -24.43         | 1.51                   | 325                                |
| 243.40000          | QP                               | V                            | 12.85                          | 2.50              | 15.35                          | 46.00                    | -30.65         | 1.47                   | 97                                 |
| 478.10000          | QP                               | V                            | 18.21                          | 3.20              | 21.41                          | 46.00                    | -24.59         | 1.25                   | 174                                |
| 600.40000          | QP                               | V                            | 20.88                          | 3.20              | 24.08                          | 46.00                    | -21.92         | 2.01                   | 158                                |
| 798.20000          | QP                               | V                            | 23.49                          | 6.40              | 29.89                          | 46.00                    | -16.11         | 1.78                   | 48                                 |
| 903.00000          | QP                               | V                            | 24.76                          | 10.30             | 35.06                          | 46.00                    | -10.94         | 1.59                   | 47                                 |
| 160.00000          | QP                               | H                            | 14.92                          | 7.80              | 22.72                          | 43.50                    | -20.78         | 1.85                   | 221                                |
| 175.50000          | QP                               | H                            | 14.29                          | 10.10             | 24.39                          | 43.50                    | -19.11         | 1.44                   | 78                                 |
| 185.20000          | QP                               | H                            | 13.55                          | 4.80              | 18.35                          | 43.50                    | -25.15         | 2.04                   | 199                                |
| 196.80000          | QP                               | H                            | 12.03                          | 9.40              | 21.43                          | 43.50                    | -22.07         | 2.26                   | 314                                |
| 798.20000          | QP                               | H                            | 23.49                          | 6.60              | 30.09                          | 46.00                    | -15.91         | 1.88                   | 168                                |
| 906.90000          | QP                               | H                            | 24.76                          | 6.10              | 30.86                          | 46.00                    | -15.14         | 3.05                   | 78                                 |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36122  
Test Unit : Handset  
Test Condition : Tx at low channel  
Worst Case Condition : Setup1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|------------------------|------------------------------------|
| 59.10000           | QP                               | V                            | 12.90                          | 3.40              | 16.30                          | 40.00                    | -23.70         | 1.11                   | 25                                 |
| 158.00000          | QP                               | V                            | 14.76                          | 1.60              | 16.36                          | 43.50                    | -27.14         | 1.52                   | 147                                |
| 590.70000          | QP                               | V                            | 20.62                          | 2.60              | 23.22                          | 46.00                    | -22.78         | 1.47                   | 165                                |
| 796.30000          | QP                               | V                            | 23.49                          | 4.20              | 27.69                          | 46.00                    | -18.31         | 1.24                   | 198                                |
| 852.60000          | QP                               | V                            | 24.39                          | 3.90              | 28.29                          | 46.00                    | -17.71         | 1.46                   | 57                                 |
| 953.40000          | QP                               | V                            | 25.81                          | 5.00              | 30.81                          | 46.00                    | -15.19         | 1.05                   | 98                                 |
| 37.80000           | QP                               | H                            | 12.81                          | 2.30              | 15.11                          | 40.00                    | -24.89         | 1.25                   | 49                                 |
| 72.70000           | QP                               | H                            | 11.62                          | 3.00              | 14.62                          | 40.00                    | -25.38         | 1.33                   | 215                                |
| 158.00000          | QP                               | H                            | 14.76                          | 1.00              | 15.76                          | 43.50                    | -27.74         | 1.09                   | 65                                 |
| 755.60000          | QP                               | H                            | 23.40                          | 3.20              | 26.60                          | 46.00                    | -19.40         | 2.45                   | 79                                 |
| 796.30000          | QP                               | H                            | 23.49                          | 9.80              | 33.29                          | 46.00                    | -12.71         | 3.21                   | 233                                |
| 825.40000          | QP                               | H                            | 24.46                          | 9.40              | 33.86                          | 46.00                    | -12.14         | 2.85                   | 178                                |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

EUT : 36122  
Test Unit : Handset  
Test Condition : Tx at high channel  
Worst Case Condition : Setup1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV/m) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn<br>Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------|----------------|------------------------|------------------------------------|
| 59.10000           | QP                               | V                            | 12.90                          | 3.50              | 16.40                          | 40.00                    | -23.60         | 1.21                   | 33                                 |
| 138.60000          | QP                               | V                            | 13.34                          | 1.80              | 15.14                          | 43.50                    | -28.36         | 1.00                   | 25                                 |
| 458.70000          | QP                               | V                            | 17.86                          | 3.20              | 21.06                          | 46.00                    | -24.94         | 1.78                   | 174                                |
| 761.40000          | QP                               | V                            | 23.40                          | 3.40              | 26.80                          | 46.00                    | -19.20         | 1.05                   | 201                                |
| 798.20000          | QP                               | V                            | 23.49                          | 4.10              | 27.59                          | 46.00                    | -18.41         | 1.54                   | 58                                 |
| 903.00000          | QP                               | V                            | 24.76                          | 6.30              | 31.06                          | 46.00                    | -14.94         | 1.09                   | 300                                |
| 59.10000           | QP                               | H                            | 12.90                          | 1.70              | 14.60                          | 40.00                    | -25.40         | 2.88                   | 78                                 |
| 150.30000          | QP                               | H                            | 14.76                          | 1.40              | 16.16                          | 43.50                    | -27.34         | 1.38                   | 64                                 |
| 478.10000          | QP                               | H                            | 18.21                          | 2.70              | 20.91                          | 46.00                    | -25.09         | 2.06                   | 98                                 |
| 712.90000          | QP                               | H                            | 22.22                          | 2.80              | 25.02                          | 46.00                    | -20.98         | 2.29                   | 156                                |
| 798.20000          | QP                               | H                            | 23.49                          | 9.30              | 32.79                          | 46.00                    | -13.21         | 2.47                   | 308                                |
| 825.40000          | QP                               | H                            | 24.46                          | 9.20              | 33.66                          | 46.00                    | -12.34         | 2.56                   | 288                                |

Remark:

1. Corrected Level = Reading Level + Correction Factor
2. Correction Factor = Antenna Factor + Cable Loss

### 3.4.2 Measurement results: frequency above 1GHz

EUT : 36121  
Test Unit : Base  
Test Condition : Continuous transmit at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamplifier<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|----------------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|------------------------|---------------------------------|
| 2402.55            | PK                               | V                            | 33.74                | 30.542                         | 62.968            | 59.77                        | 114                      | -54.23         | 102                    | 208                             |
| 2402.55            | AV                               | V                            | 33.74                | 30.542                         | 55.408            | 52.21                        | 94                       | -41.79         | 102                    | 208                             |
| 2402.55            | PK                               | H                            | 33.74                | 30.542                         | 65.998            | 62.8                         | 114                      | -51.2          | 107                    | 203                             |
| 2402.55            | AV                               | H                            | 33.74                | 30.542                         | 61.168            | 57.97                        | 94                       | -36.03         | 107                    | 203                             |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

#### For PK:

1GHz-3GHz: 50dBuV  
3GHz-14GHz: 54dBuV  
14GHz-26.5GHz: 60dBuV

#### For AV:

1GHz-3GHz: 41.5dBuV  
3GHz-14GHz: 46dBuV  
14GHz-26.5GHz: 46.5dBuV

EUT : 36121  
 Test Unit : Base  
 Test Condition : Continuous transmit at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(m) | Turn Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|------------------------|---------------------------------|
| 2404.5             | PK                               | V                            | 33.74          | 30.542                         | 64.538            | 61.34                        | 114                      | -52.66         | 199                    | 238                             |
| 2404.5             | AV                               | V                            | 33.74          | 30.542                         | 57.358            | 54.16                        | 94                       | -39.84         | 199                    | 238                             |
| 2404.5             | PK                               | H                            | 33.74          | 30.542                         | 65.168            | 61.97                        | 114                      | -52.03         | 107                    | 182                             |
| 2404.5             | AV                               | H                            | 33.74          | 30.542                         | 60.768            | 57.57                        | 94                       | -36.43         | 107                    | 182                             |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

#### For PK:

1GHz-3GHz: 50dBuV  
 3GHz-14GHz: 54dBuV  
 14GHz-26.5GHz: 60dBuV

#### For AV:

1GHz-3GHz: 41.5dBuV  
 3GHz-14GHz: 46dBuV  
 14GHz-26.5GHz: 46.5dBuV

EUT : 36122 (with charger 1)  
Test Unit : Base  
Test Condition : Continuous transmit at low channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(cm) | Turn Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|-------------------------|---------------------------------|
| 2402.55            | PK                               | V                            | 33.74          | 30.542                         | 65.238            | 62.04                        | 114                      | -51.96         | 100                     | 38                              |
| 2402.55            | AV                               | V                            | 33.74          | 30.542                         | 59.248            | 56.05                        | 94                       | -37.95         | 100                     | 38                              |
| 2402.55            | PK                               | H                            | 33.74          | 30.542                         | 68.218            | 65.02                        | 114                      | -48.98         | 106                     | 187                             |
| 2402.55            | AV                               | H                            | 33.74          | 30.542                         | 64.978            | 61.78                        | 94                       | -32.22         | 106                     | 187                             |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

#### For PK:

1GHz-3GHz: 50dBuV  
3GHz-14GHz: 54dBuV  
14GHz-26.5GHz: 60dBuV

#### For AV:

1GHz-3GHz: 41.5dBuV  
3GHz-14GHz: 46dBuV  
14GHz-26.5GHz: 46.5dBuV

EUT : 36122 (with charger 1)  
Test Unit : Base  
Test Condition : Continuous transmit at high channel

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(cm) | Turn Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|-------------------------|---------------------------------|
| 2404.5             | PK                               | V                            | 33.74          | 30.542                         | 65.278            | 62.08                        | 114                      | -51.92         | 107                     | 332                             |
| 2404.5             | AV                               | V                            | 33.74          | 30.542                         | 59.648            | 56.45                        | 94                       | -37.55         | 107                     | 332                             |
| 2404.5             | PK                               | H                            | 33.74          | 30.542                         | 67.248            | 64.05                        | 114                      | -49.95         | 107                     | 186                             |
| 2404.5             | AV                               | H                            | 33.74          | 30.542                         | 63.328            | 60.13                        | 94                       | -33.87         | 107                     | 186                             |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

#### For PK:

1GHz-3GHz: 50dBuV  
3GHz-14GHz: 54dBuV  
14GHz-26.5GHz: 60dBuV

#### For AV:

1GHz-3GHz: 41.5dBuV  
3GHz-14GHz: 46dBuV  
14GHz-26.5GHz: 46.5dBuV

EUT : 36122  
Test Unit : Handset  
Test Condition : Continuous transmit at low channel  
Worst Case Condition : Setup 1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(cm) | Turn Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|-------------------------|---------------------------------|
| 2474               | PK                               | V                            | 33.74          | 30.542                         | 83.558            | 80.36                        | 114                      | -33.64         | 161                     | 64                              |
| 2474               | AV                               | V                            | 33.74          | 30.542                         | 83.018            | 79.82                        | 94                       | -14.18         | 161                     | 64                              |
| 2474               | PK                               | H                            | 33.74          | 30.542                         | 82.168            | 78.97                        | 114                      | -35.03         | 221                     | 221                             |
| 2474               | AV                               | H                            | 33.74          | 30.542                         | 81.548            | 78.35                        | 94                       | -15.65         | 221                     | 221                             |
| 4123.34            | PK                               | H                            | 31.88          | 35.742                         | 42.588            | 46.45                        | 74                       | -27.55         | 133                     | 226                             |
| 4123.34            | AV                               | H                            | 31.88          | 35.742                         | 38.778            | 42.64                        | 54                       | -11.36         | 133                     | 226                             |
| 4948               | PK                               | H                            | 32.265         | 35.742                         | 39.813            | 43.29                        | 74                       | -30.71         | 119                     | 216                             |
| 4948               | AV                               | H                            | 32.265         | 35.742                         | 33.983            | 37.46                        | 54                       | -16.54         | 119                     | 216                             |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

#### For PK:

1GHz-3GHz: 50dBuV  
3GHz-14GHz: 54dBuV  
14GHz-26.5GHz: 60dBuV

#### For AV:

1GHz-3GHz: 41.5dBuV  
3GHz-14GHz: 46dBuV  
14GHz-26.5GHz: 46.5dBuV

EUT : 36122  
Test Unit : Handset  
Test Condition : Continuous transmit at high channel  
Wosrt Case Condition : Setup 1

| Frequency<br>(MHz) | Spectrum<br>Analyzer<br>Detector | Antenna<br>Polariz.<br>(H/V) | Preamp<br>(dB) | Correction<br>Factor<br>(dB/m) | Reading<br>(dBuV) | Corrected<br>Level<br>(dBuV) | Limit<br>@ 3 m<br>(dBuV) | Margin<br>(dB) | Antenna<br>high<br>(cm) | Turn Table<br>angle<br>(degree) |
|--------------------|----------------------------------|------------------------------|----------------|--------------------------------|-------------------|------------------------------|--------------------------|----------------|-------------------------|---------------------------------|
| 2475.95            | PK                               | V                            | 33.74          | 30.542                         | 83.098            | 79.9                         | 114                      | -34.1          | 129                     | 128                             |
| 2475.95            | AV                               | V                            | 33.74          | 30.542                         | 82.488            | 79.29                        | 94                       | -14.71         | 129                     | 128                             |
| 2475.95            | PK                               | H                            | 33.74          | 30.542                         | 81.588            | 78.39                        | 114                      | -35.61         | 217                     | 193                             |
| 2475.95            | AV                               | H                            | 33.74          | 30.542                         | 81.108            | 77.91                        | 94                       | -16.09         | 217                     | 193                             |
| 4126.52            | PK                               | H                            | 31.88          | 35.742                         | 42.958            | 46.82                        | 74                       | -27.18         | 133                     | 223                             |
| 4126.52            | AV                               | H                            | 31.88          | 35.742                         | 39.448            | 43.31                        | 54                       | -10.69         | 133                     | 223                             |

#### Remark:

1. Corrected Level = Reading Level + Correction Factor – Preamp
2. Correction Factor = Antenna Factor + Cable Loss
3. The frequency measured ranges from 1GHz to 25GHz. The data value listed above which is higher than the noise floor, the others please refer to noise floor level.

#### For PK:

1GHz-3GHz: 50dBuV  
3GHz-14GHz: 54dBuV  
14GHz-26.5GHz: 60dBuV

#### For AV:

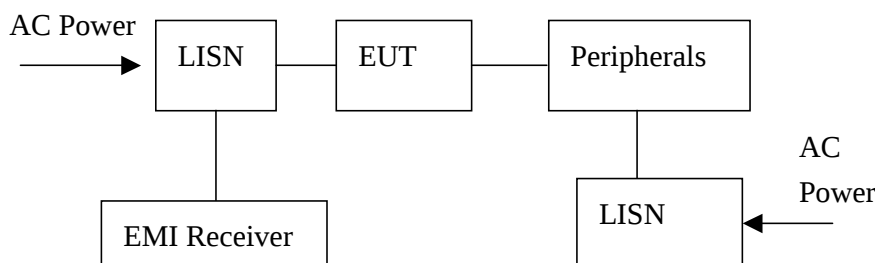
1GHz-3GHz: 41.5dBuV  
3GHz-14GHz: 46dBuV  
14GHz-26.5GHz: 46.5dBuV

#### 4. Conducted emission test FCC 15.207

##### 4.1 Operating environment

|                      |      |     |               |
|----------------------|------|-----|---------------|
| Temperature:         | 21   | °C  | (10-40°C)     |
| Relative Humidity:   | 54   | %   | (10-90%)      |
| Atmospheric Pressure | 1010 | hPa | (860-1061hPa) |

##### 4.2 Test setup & procedure



The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/1992 on conducted measurement.

The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9kHz.

The EUT configuration please refer to the “Conducted set-up photo.pdf”.

#### 4.3 Emission limit

| Freq.<br>(MHz) | Conducted Limit (dBuV) |          |
|----------------|------------------------|----------|
|                | Q.P.                   | Ave.     |
| 0.15~0.50      | 66 – 56*               | 56 – 46* |
| 0.50~5.00      | 56                     | 46       |
| 5.00~30.0      | 60                     | 50       |

\*Decreases with the logarithm of the frequency.

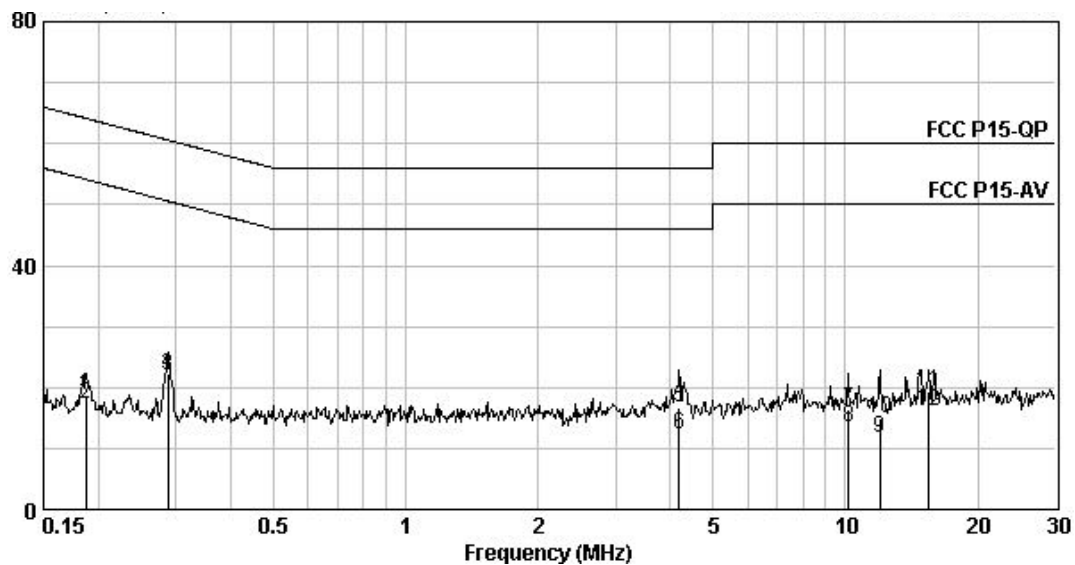
#### 4.4 Conducted emission data FCC 15.207

(1) Line

EUT : 36121 (Base unit)

Test Condition : Charging mode

| Freq.<br>(MHz) | Correction<br>Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|----------------|------------------------------|-----------------|-----------------|----------------|----------|
| 0.18749        | 0.1                          | 18.75           | 64.15           | -45.4          | QP       |
| 0.18749        | 0.1                          | 17.15           | 54.15           | -37            | AVERAGE  |
| 0.28831        | 0.1                          | 22.38           | 60.57           | -38.19         | QP       |
| 0.28831        | 0.1                          | 22.06           | 50.57           | -28.51         | AVERAGE  |
| 4.194          | 0.21                         | 16.57           | 56              | -39.43         | QP       |
| 4.194          | 0.21                         | 12.36           | 46              | -33.64         | AVERAGE  |
| 10.156         | 0.41                         | 16.51           | 60              | -43.49         | QP       |
| 10.156         | 0.41                         | 13.51           | 50              | -36.49         | AVERAGE  |
| 12.006         | 0.52                         | 14.82           | 60              | -45.18         | QP       |
| 12.006         | 0.52                         | 11.64           | 50              | -38.36         | AVERAGE  |
| 15.492         | 0.71                         | 19.44           | 60              | -40.56         | QP       |
| 15.492         | 0.71                         | 16.09           | 50              | -33.91         | AVERAGE  |

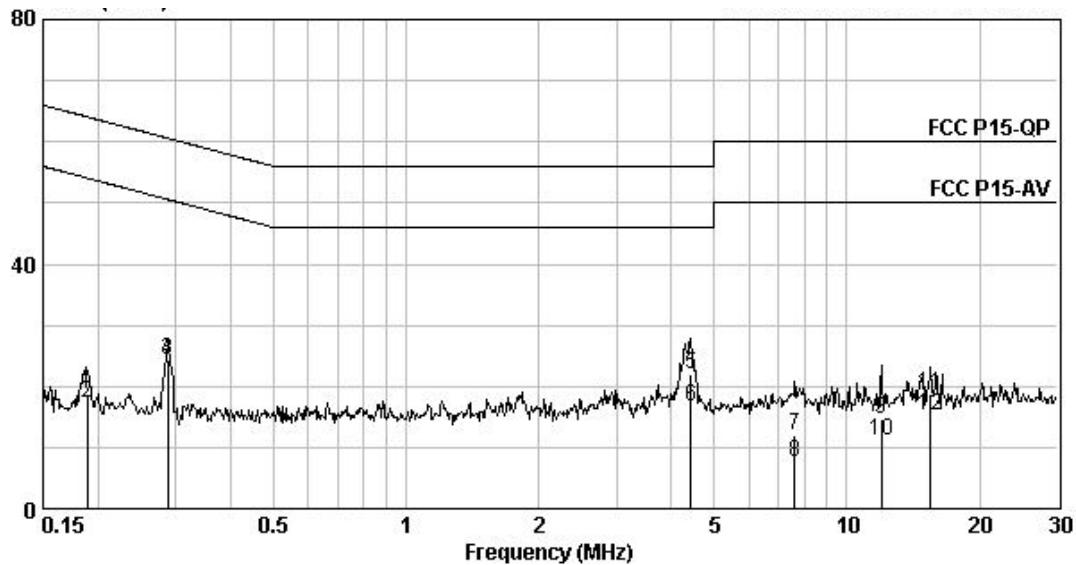


## (2) Neutral

EUT : 36121 (Base unit)

Test Condition : Charging mode

| Freq.<br>(MHz) | Correction<br>Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|----------------|------------------------------|-----------------|-----------------|----------------|----------|
| 0.18899        | 0.1                          | 18.79           | 64.08           | -45.29         | QP       |
| 0.18899        | 0.1                          | 17.26           | 54.08           | -36.82         | AVERAGE  |
| 0.28831        | 0.1                          | 24.32           | 60.57           | -36.25         | QP       |
| 0.28831        | 0.1                          | 24.19           | 50.57           | -26.38         | AVERAGE  |
| 4.434          | 0.2                          | 22.04           | 56              | -33.96         | QP       |
| 4.434          | 0.2                          | 16.67           | 46              | -29.33         | AVERAGE  |
| 7.623          | 0.2                          | 12.02           | 60              | -47.98         | QP       |
| 7.623          | 0.2                          | 7.66            | 50              | -42.34         | AVERAGE  |
| 12.006         | 0.28                         | 14.52           | 60              | -45.48         | QP       |
| 12.006         | 0.28                         | 11.25           | 50              | -38.75         | AVERAGE  |
| 15.492         | 0.42                         | 18.68           | 60              | -41.32         | QP       |
| 15.492         | 0.42                         | 15.32           | 50              | -34.68         | AVERAGE  |



### Remark:

1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.

Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.6$  dB.

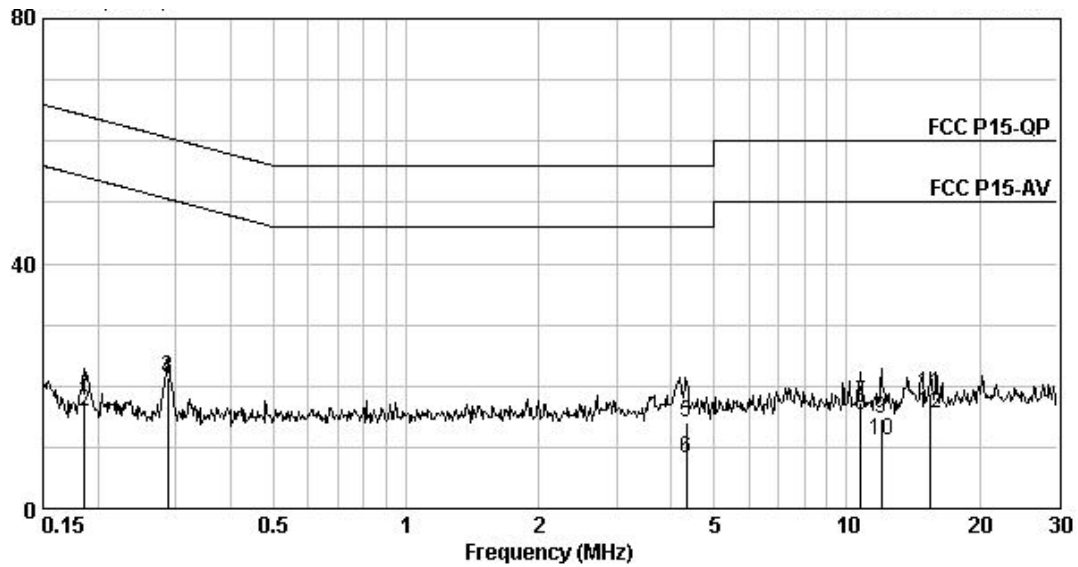
3. Please see the plot below.

(1) Line

EUT : 36122 (Base unit with charger 1)

Test Condition : Charging mode

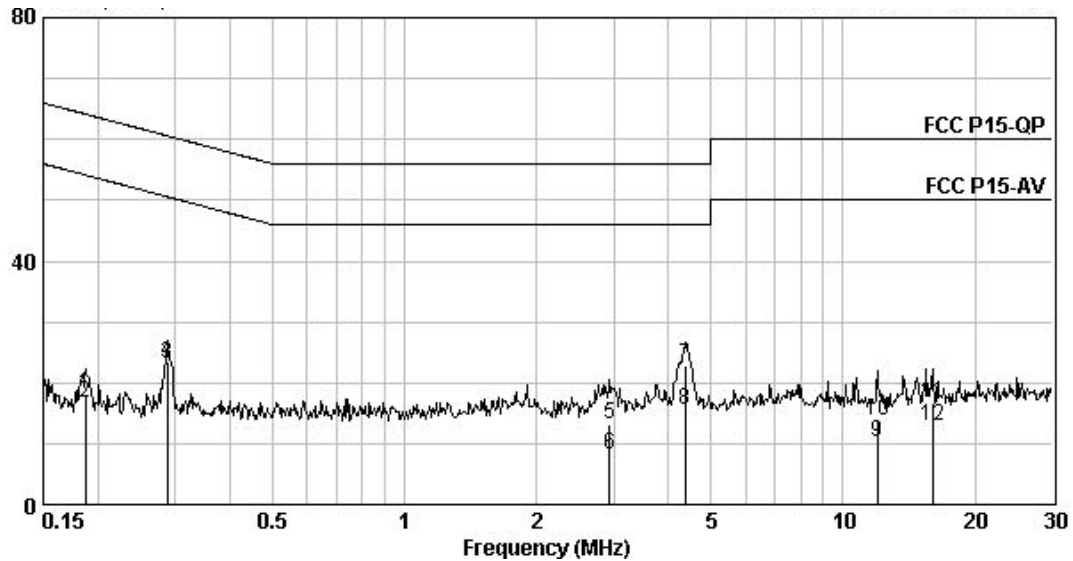
| Freq.<br>(MHz) | Correction<br>Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|----------------|------------------------------|-----------------|-----------------|----------------|----------|
| 0.18601        | 0.1                          | 17.62           | 64.21           | -46.59         | QP       |
| 0.18601        | 0.1                          | 15.81           | 54.21           | -38.4          | AVERAGE  |
| 0.28831        | 0.1                          | 21.34           | 60.57           | -39.23         | QP       |
| 0.28831        | 0.1                          | 21.02           | 50.57           | -29.55         | AVERAGE  |
| 4.329          | 0.21                         | 14.02           | 56              | -41.98         | QP       |
| 4.329          | 0.21                         | 8.24            | 46              | -37.76         | AVERAGE  |
| 10.738         | 0.44                         | 17.4            | 60              | -42.6          | QP       |
| 10.738         | 0.44                         | 15.31           | 50              | -34.69         | AVERAGE  |
| 12.006         | 0.52                         | 14.54           | 60              | -45.46         | QP       |
| 12.006         | 0.52                         | 11.09           | 50              | -38.91         | AVERAGE  |
| 15.492         | 0.71                         | 18.79           | 60              | -41.21         | QP       |
| 15.492         | 0.71                         | 15.51           | 50              | -34.49         | AVERAGE  |



## (2) Neutral

EUT : 36122 (Base unit with charger 1)  
Test Condition : Charging mode

| Freq.<br>(MHz) | Correction<br>Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|----------------|------------------------------|-----------------|-----------------|----------------|----------|
| 0.18749        | 0.1                          | 18.16           | 64.15           | -45.99         | QP       |
| 0.18749        | 0.1                          | 16.74           | 54.15           | -37.41         | AVERAGE  |
| 0.28831        | 0.1                          | 23.43           | 60.57           | -37.14         | QP       |
| 0.28831        | 0.1                          | 23.11           | 50.57           | -27.46         | AVERAGE  |
| 2.93           | 0.15                         | 13.28           | 56              | -42.72         | QP       |
| 2.93           | 0.15                         | 8.23            | 46              | -37.77         | AVERAGE  |
| 4.364          | 0.2                          | 22.77           | 56              | -33.23         | QP       |
| 4.364          | 0.2                          | 15.39           | 46              | -30.61         | AVERAGE  |
| 12.006         | 0.28                         | 13.84           | 60              | -46.16         | QP       |
| 12.006         | 0.28                         | 10.32           | 50              | -39.68         | AVERAGE  |
| 15.994         | 0.44                         | 16.57           | 60              | -43.43         | QP       |
| 15.994         | 0.44                         | 13              | 50              | -37            | AVERAGE  |



### Remark:

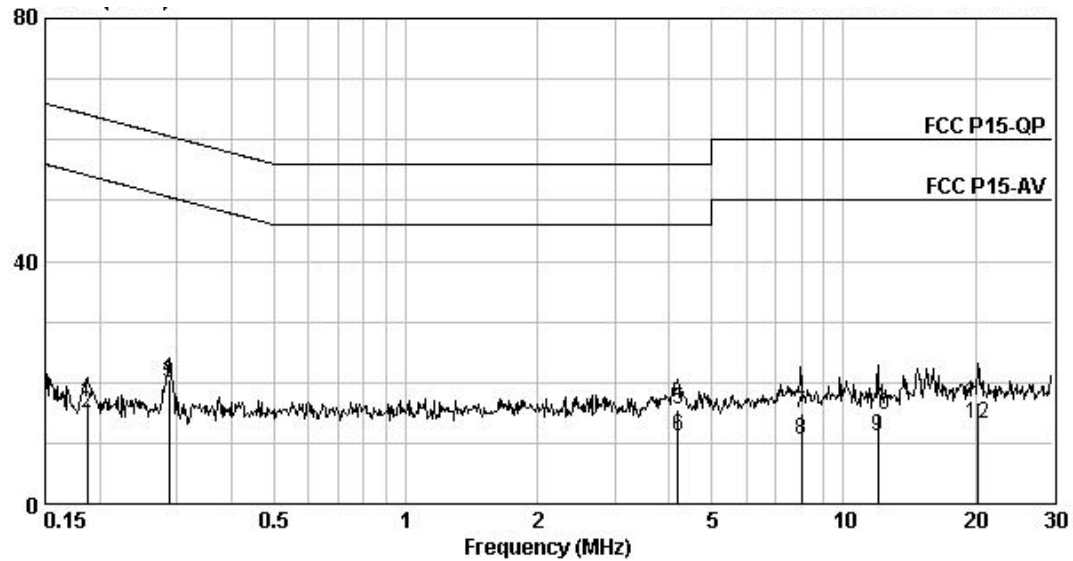
1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.  
Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.6$  dB.
3. Please see the plot below.

(1) Line

EUT : 36122 (Base unit with charger 2)

Test Condition : Charging mode

| Freq.<br>(MHz) | Correction<br>Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|----------------|------------------------------|-----------------|-----------------|----------------|----------|
| 0.18749        | 0.1                          | 16.81           | 64.15           | -47.34         | QP       |
| 0.18749        | 0.1                          | 14.86           | 54.15           | -39.29         | AVERAGE  |
| 0.28831        | 0.1                          | 20.45           | 60.57           | -40.12         | QP       |
| 0.28831        | 0.1                          | 19.86           | 50.57           | -30.71         | AVERAGE  |
| 4.194          | 0.21                         | 15.65           | 56              | -40.35         | QP       |
| 4.194          | 0.21                         | 11.27           | 46              | -34.73         | AVERAGE  |
| 7.996          | 0.33                         | 14.89           | 60              | -45.11         | QP       |
| 7.996          | 0.33                         | 10.69           | 50              | -39.31         | AVERAGE  |
| 12.006         | 0.52                         | 14.7            | 60              | -45.3          | QP       |
| 12.006         | 0.52                         | 11.25           | 50              | -38.75         | AVERAGE  |
| 20.313         | 0.81                         | 16.65           | 60              | -43.35         | QP       |
| 20.313         | 0.81                         | 13.14           | 50              | -36.86         | AVERAGE  |

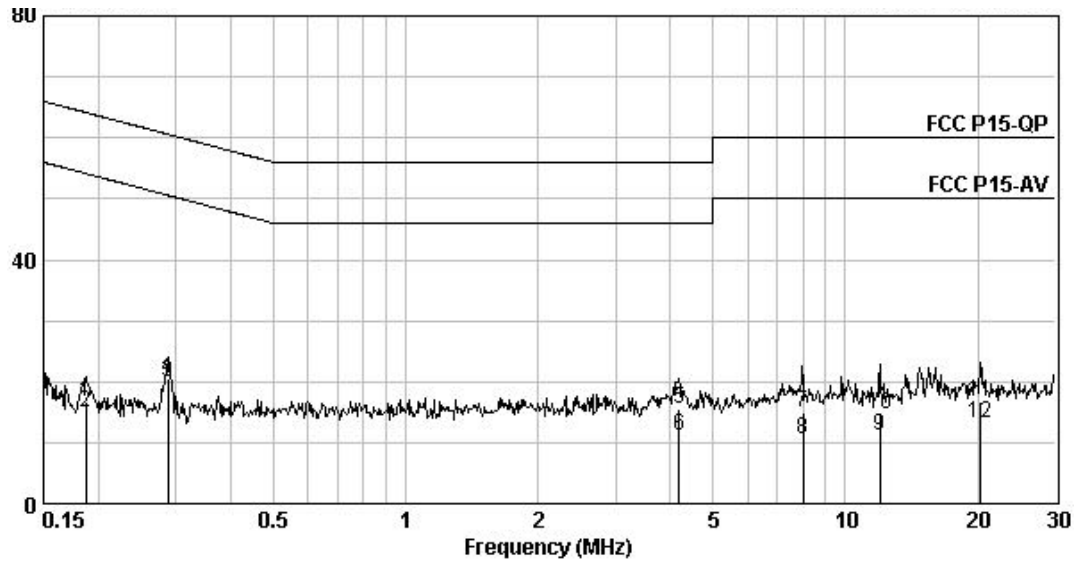


## (2) Neutral

EUT : 36122 (Base unit with charger 2)

Test Condition : Charging mode

| Freq.<br>(MHz) | Correction<br>Factor<br>(dB) | Level<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Detector |
|----------------|------------------------------|-----------------|-----------------|----------------|----------|
| 0.18749        | 0.1                          | 18.16           | 64.15           | -45.99         | QP       |
| 0.18749        | 0.1                          | 16.74           | 54.15           | -37.41         | AVERAGE  |
| 0.28831        | 0.1                          | 23.43           | 60.57           | -37.14         | QP       |
| 0.28831        | 0.1                          | 23.11           | 50.57           | -27.46         | AVERAGE  |
| 2.93           | 0.15                         | 13.28           | 56              | -42.72         | QP       |
| 2.93           | 0.15                         | 8.23            | 46              | -37.77         | AVERAGE  |
| 4.364          | 0.2                          | 22.77           | 56              | -33.23         | QP       |
| 4.364          | 0.2                          | 15.39           | 46              | -30.61         | AVERAGE  |
| 12.006         | 0.28                         | 13.84           | 60              | -46.16         | QP       |
| 12.006         | 0.28                         | 10.32           | 50              | -39.68         | AVERAGE  |
| 15.994         | 0.44                         | 16.57           | 60              | -43.43         | QP       |
| 15.994         | 0.44                         | 13              | 50              | -37            | AVERAGE  |



### Remark:

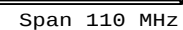
1. The reading value included cable loss and LISN factor.
2. Uncertainty was calculated in accordance with NAMAS NIS 81.  
Expanded uncertainty (k=2) of conducted emission measurement is  $\pm 2.6$  dB.
3. Please see the plot below.

**5. Radiated emission on the band edge FCC 15.249(C)**

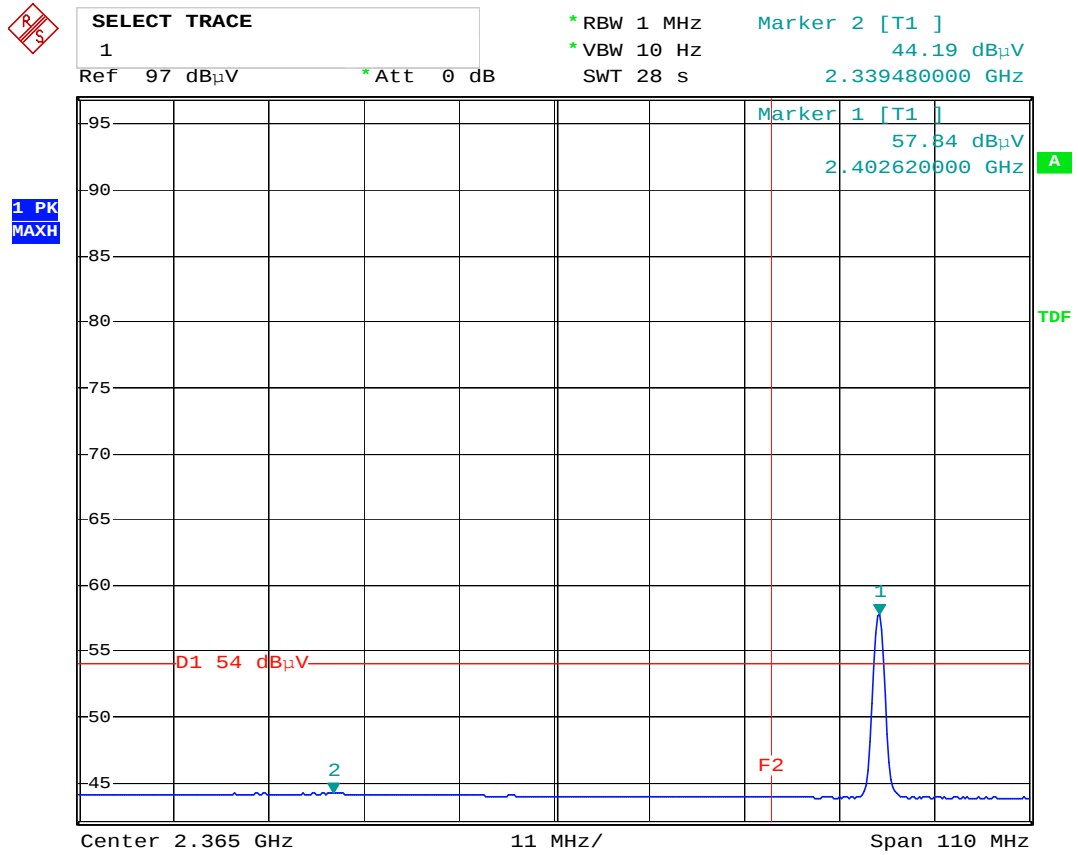
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental (Base: 2402.55~ 2404.50MHz, Handset: 2474MHz ~ 2475.95MHz) or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

Please see the plot below.

Test Condition : Continuous transmit at low channel

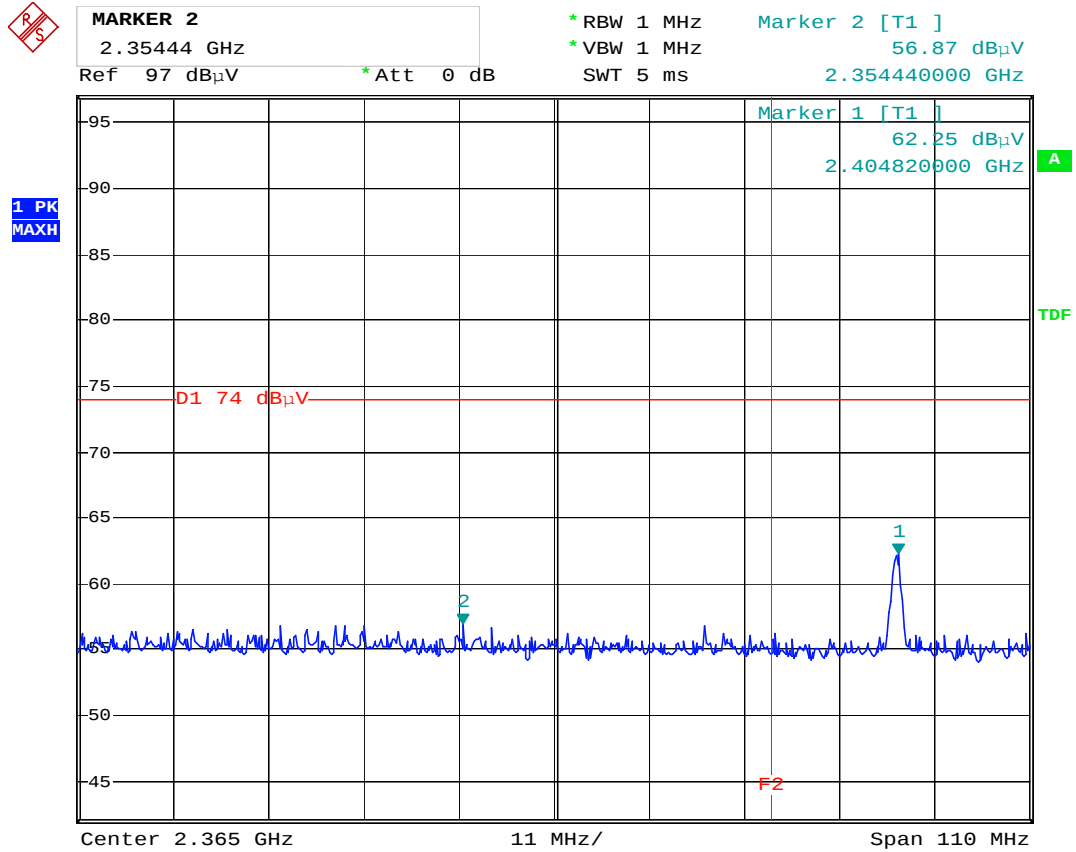


Date: 19.MAR.2004 09:57:07

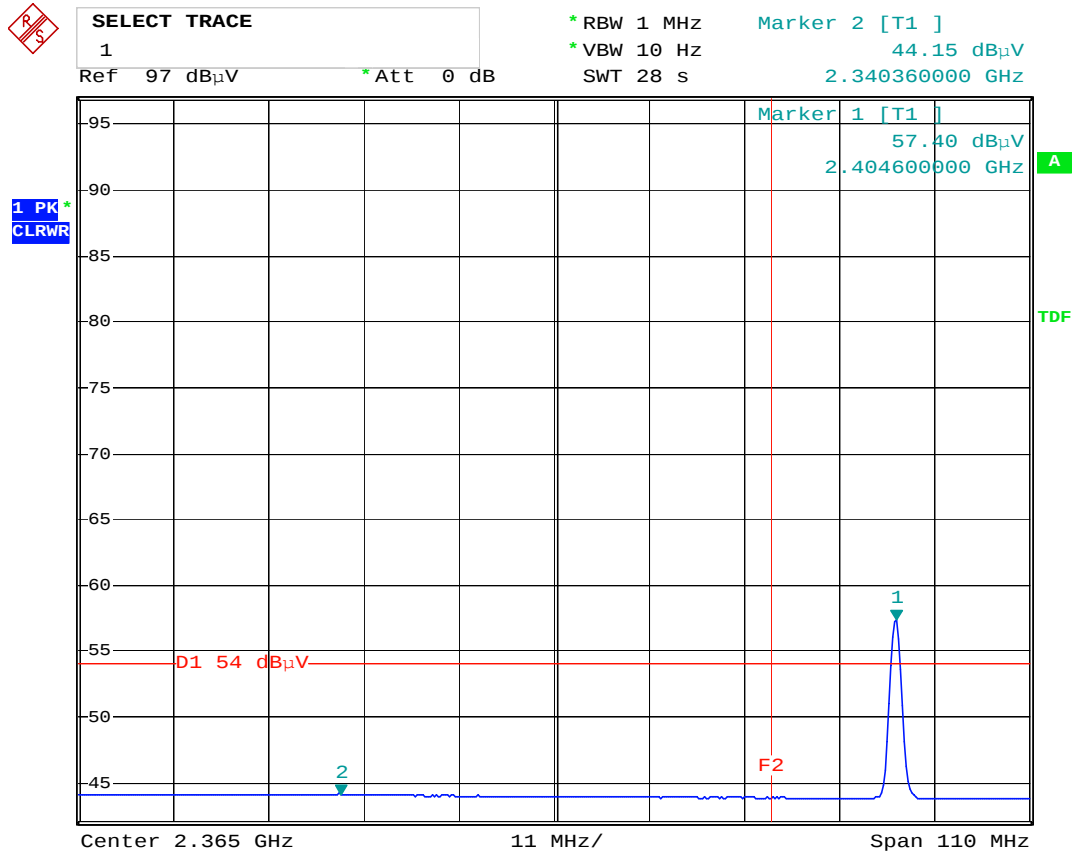


Comment: Band-edge test at low channel  
Comment: Average detector F2=2390MHz  
Date: 19.MAR.2004 09:59:23

EUT 36121 Base unit  
Test Condition : Continuous transmit at high channel

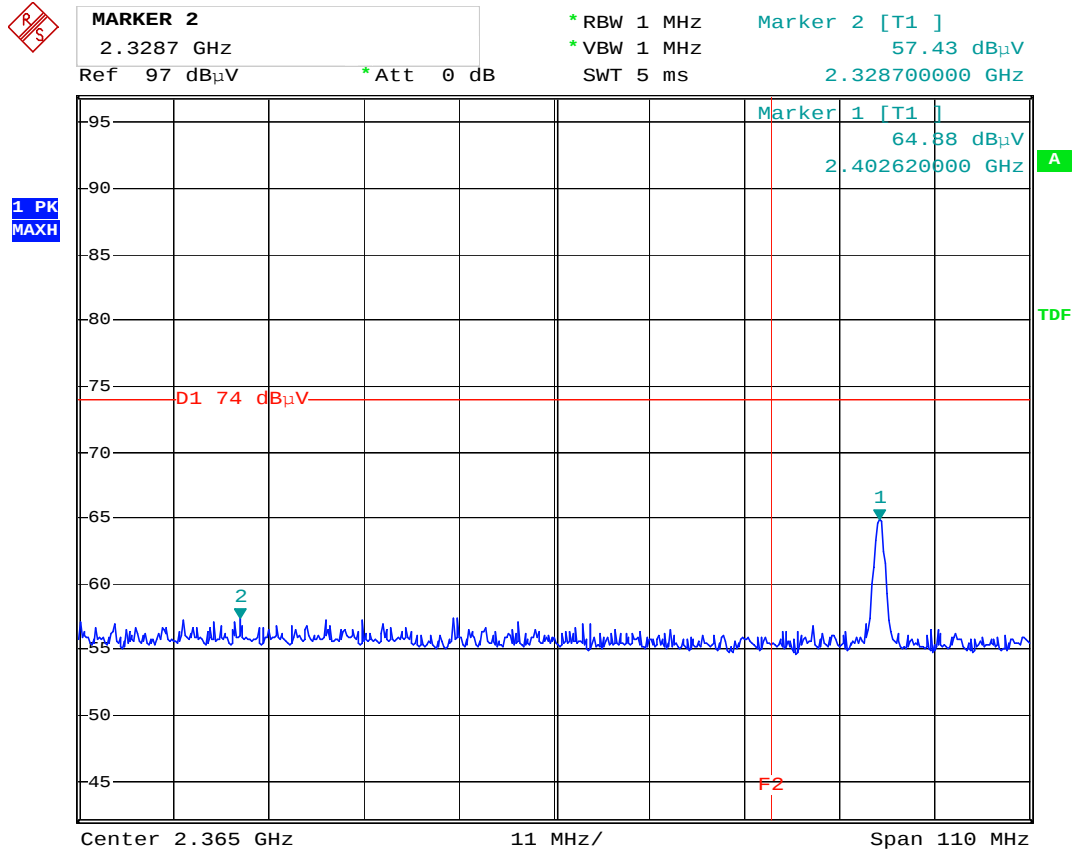


Comment: Band-edge test at high channel  
Comment: Peak detector F2=2390MHz  
Date: 19.MAR.2004 11:14:49

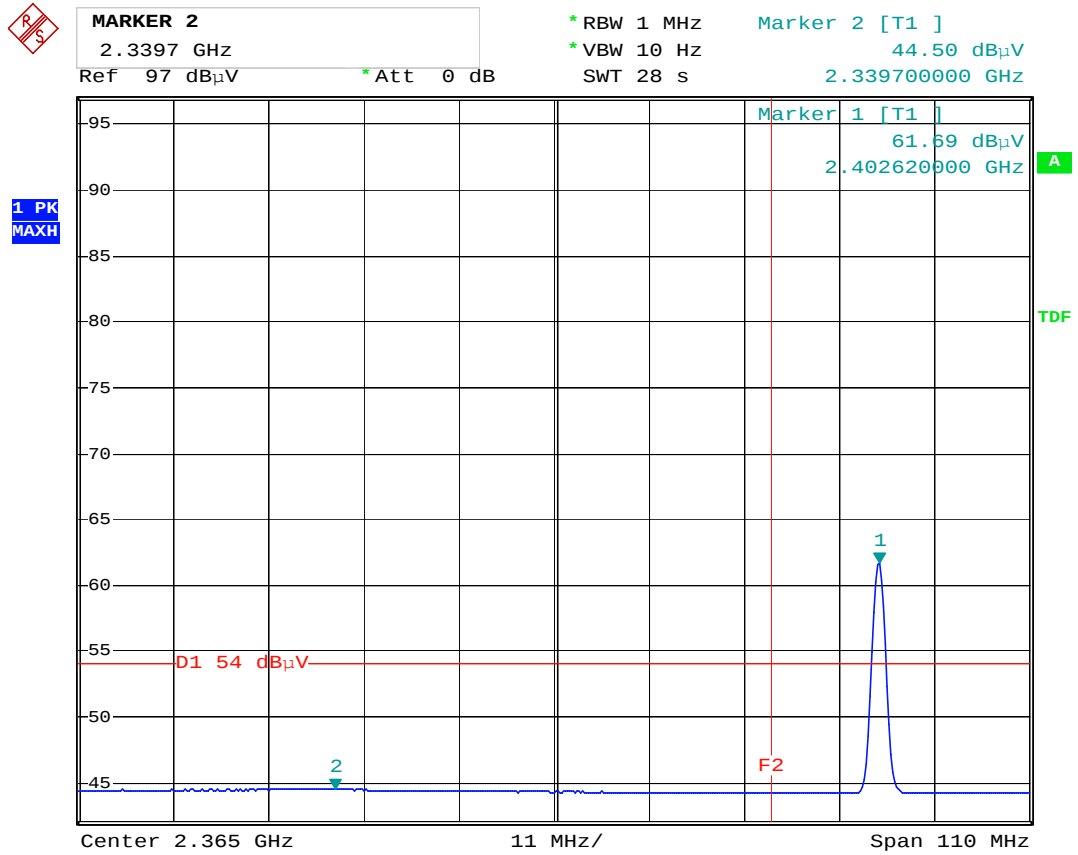


Comment: Band-edge test at high channel  
Comment: Average detector F2=2390MHz  
Date: 19.MAR.2004 11:18:41

EUT 36122 Base unit with charger 1  
Test Condition : Continuous transmit at low channel

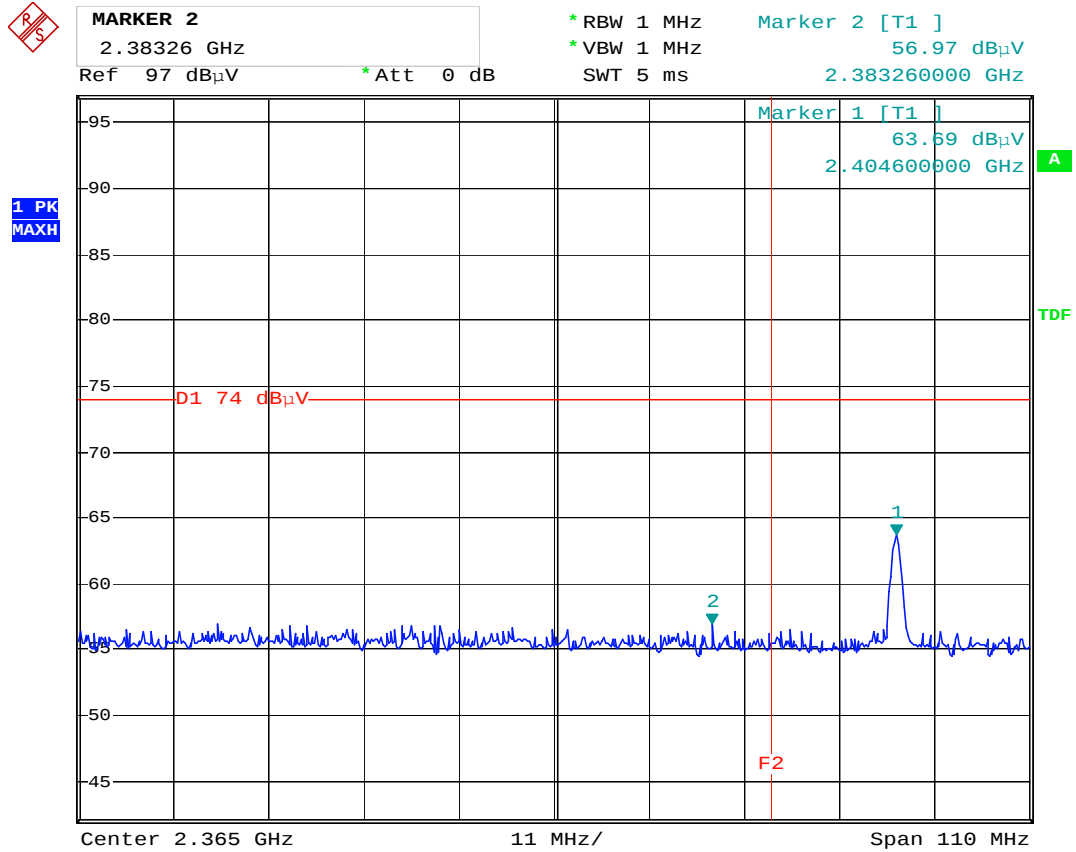


Comment: Band-edge test at low channel  
Comment: Peak detector F2=2390MHz  
Date: 22.MAR.2004 09:30:15

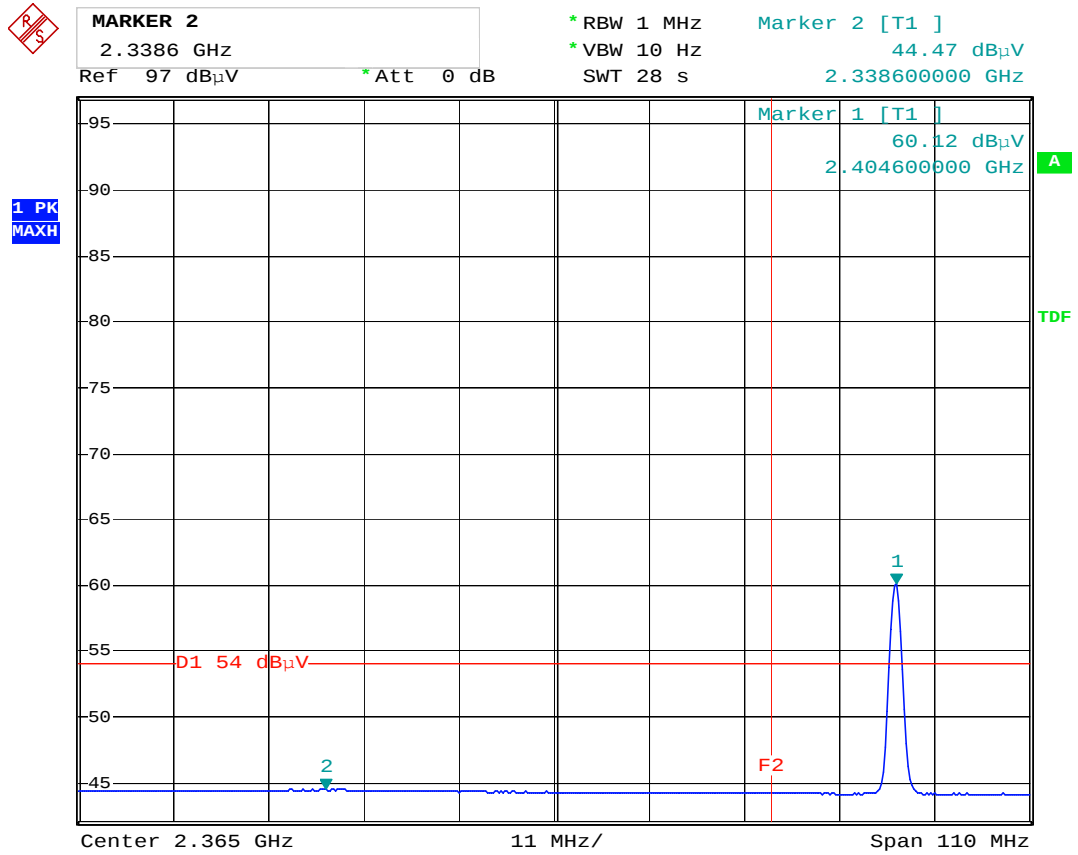


Comment: Band-edge test at low channel  
Comment: Average detector F2=2390MHz  
Date: 22.MAR.2004 09:33:12

EUT 36122 Base unit with charger 2  
Test Condition : Continuous transmit at high channel

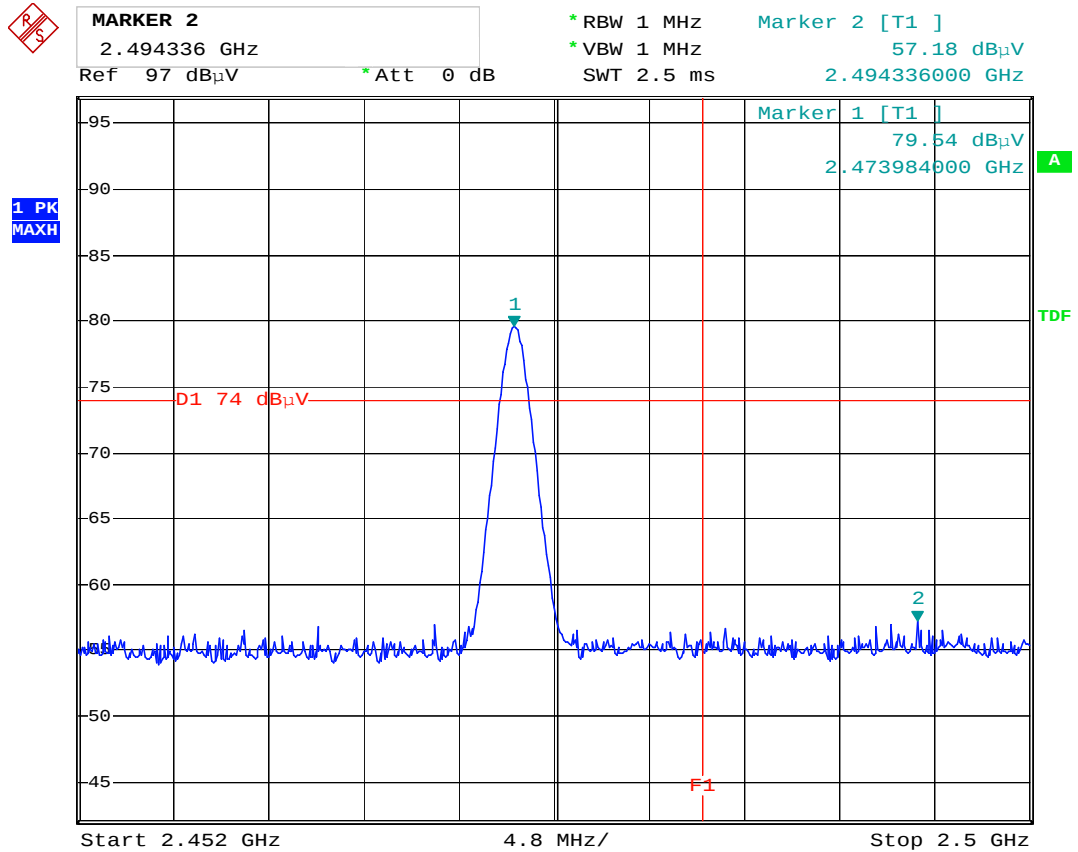


Comment: Band-edge test at high channel  
Comment: Peak detector F2=2390MHz  
Date: 22.MAR.2004 10:35:03

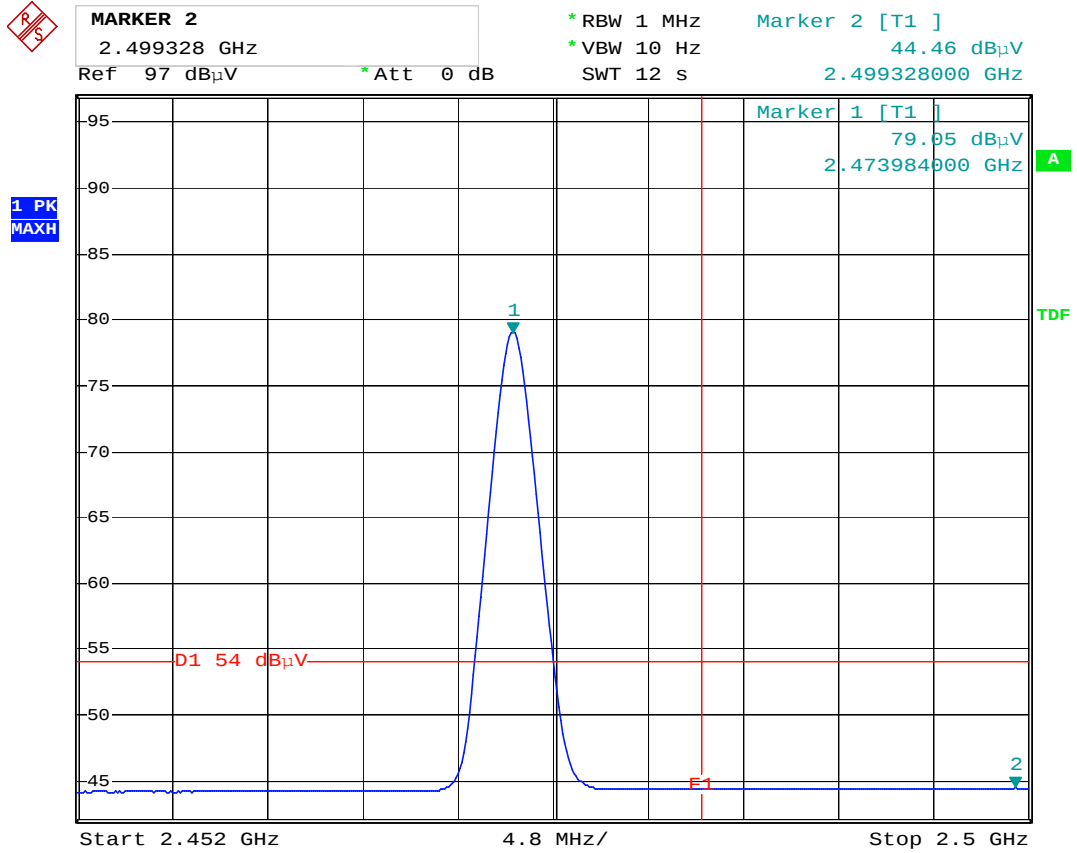


Comment: Band-edge test at high channel  
Comment: Average detector F2=2390MHz  
Date: 22.MAR.2004 10:38:37

EUT 36122 Handset unit  
Test Condition : Continuous transmit at low channel

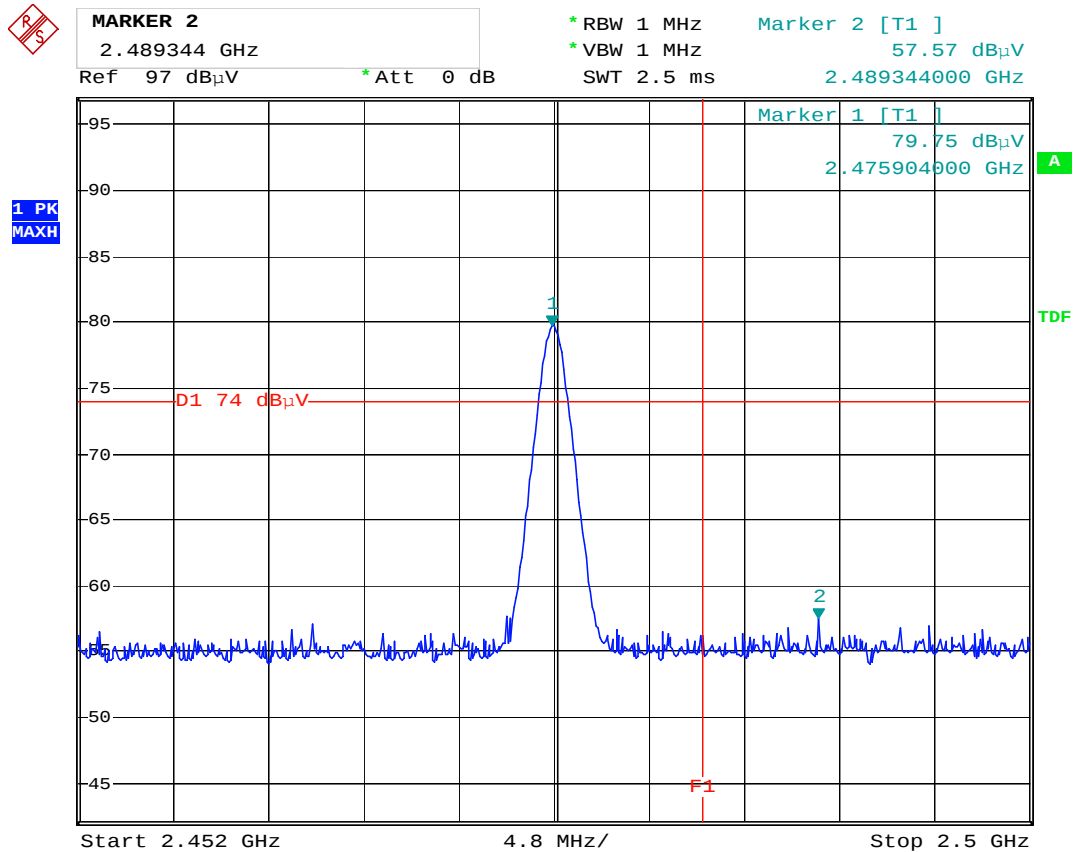


Comment: Band-edge test at low channel  
Comment: Peak detector F1=2483.5MHz  
Date: 24.MAR.2004 11:46:36

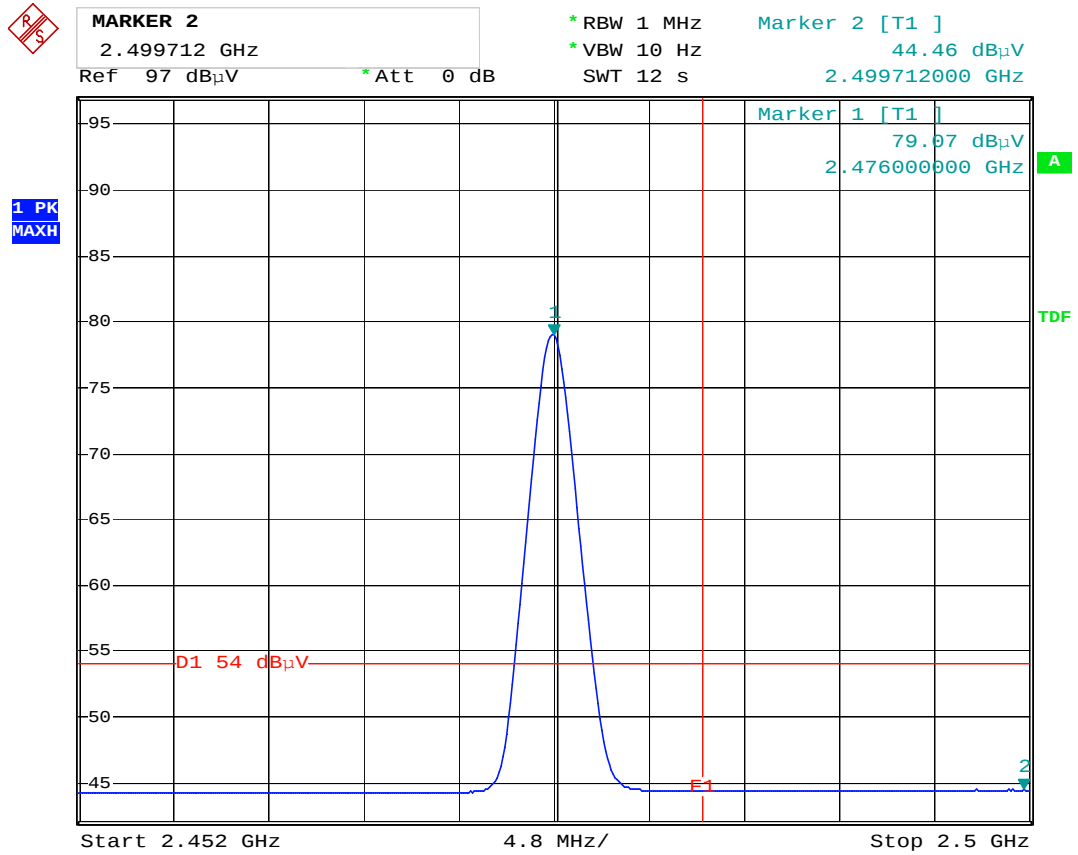


Comment: Band-edge test at low channel  
Comment: Average detector F1=2483.5MHz  
Date: 24.MAR.2004 11:48:27

EUT 36122 Handset unit  
Test Condition : Continuous transmit at high channel



Comment: Band-edge test at high channel  
Comment: Peak detector F1=2483.5MHz  
Date: 24.MAR.2004 11:32:17



Comment: Band-edge test at high channel  
Comment: Average detector F1=2483.5MHz  
Date: 24.MAR.2004 11:37:25