



# **FCC Test Report**

## **FCC ID:2ADVA-BRIOS430**

**Product :** Smart phone

**Trade Name :** XTRATECH

**Model Number :** XTRATECH Brio S430

**Serial Model :** Brio S430

**Report No. :** NTEK-2014NT11272077F3

**Prepared for**

XTRATECH COMPUTERS S.A.

Ciudadela Profesor Aguirre Abad, solar 40, manzana  
118 - Guayaquil-Ecuador.

**Prepared by**

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## TEST RESULT CERTIFICATION

**Applicant's name** ..... : XTRATECH COMPUTERS S.A.  
**Address** ..... : Ciudadela Profesor Aguirre Abad, solar 40, manzana  
 118 - Guayaquil-Ecuador.  
**Manufacturer's Name** ..... : SHD TECHNOLOGY CO., LIMITED  
**Address** ..... : B-25H Building, Youth home Nanshan Road, Nanshan District,  
 Shenzhen , P.R.C

### Product description

**Product name** ..... : Smart phone  
**Model and/or type reference** : XTRATECH Brio S430  
 FCC Part15B:01 Oct.2014

**Standards** ..... : ANSI C63.4:2003

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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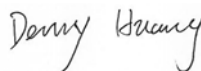
**Date of Test** .....

**Date (s) of performance of tests** ..... : 27 Nov. 2014 ~11 Dec. 2014

**Date of Issue**..... : 11 Dec. 2014

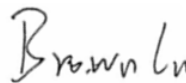
**Test Result**..... : **Pass**

Testing Engineer :



Denny Huang

Technical Manager :



(Brown Lu)

Authorized Signatory :



(Bill Yao)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

| EMC Emission                         |                    |         |          |        |
|--------------------------------------|--------------------|---------|----------|--------|
| Standard                             | Test Item          | Limit   | Judgment | Remark |
| FCC Part15B:2014<br>ANSI C63.4: 2003 | Conducted Emission | Class B | PASS     |        |
|                                      | Radiated Emission  | Class B | PASS     |        |

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

## 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expended uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately **95** %.

### A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U , (dB) | NOTE |
|-----------|--------|-----------------------------|----------|------|
| NTEKC01   | ANSI   | 150 KHz ~ 30MHz             | 3.2      |      |

### B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | U , (dB) | NOTE |
|-----------|--------|-----------------------------|----------|------|
| NTEKA01   | ANSI   | 30MHz ~ 1000MHz             | 4.7      |      |
|           |        | 1GHz ~12.4GHz               | 5.0      |      |

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

|                                                                                                                                                                                                                    |                                                                                             |                                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment                                                                                                                                                                                                          | Smart phone                                                                                 |                                                                                                                                                                                                                              |
| Model Name                                                                                                                                                                                                         | XTRATECH Brio S430                                                                          |                                                                                                                                                                                                                              |
| Additional Model Number(s)                                                                                                                                                                                         | Brio S430                                                                                   |                                                                                                                                                                                                                              |
| Model Difference                                                                                                                                                                                                   | All the model are the same circuit and RF module, except the model name and colour.         |                                                                                                                                                                                                                              |
| Product Description                                                                                                                                                                                                | The EUT is a Smart phone.                                                                   |                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                    | Connecting I/O port:                                                                        | USB, DC in ,HDMI                                                                                                                                                                                                             |
|                                                                                                                                                                                                                    | Operation Frequency:                                                                        | BT:2402~2480 MHz<br>WIFI: 802.11b/g/n(20MHz):<br>2412~2462MHz<br>802.11n(40MHz):2422~2452MHz<br>GSM 850: 824.2 ~ 848.8 MHz<br>PCS1900: 1850.2 ~ 1909.8 MHz<br>WCDMA Band II:1852.4~1907.6MHz<br>WCDMA Band V:826.4~846.6 MHz |
|                                                                                                                                                                                                                    | Modulation Type:                                                                            | BT(1Mbps): GFSK<br>BT EDR(2Mbps): $\pi/4$ -DQPSK<br>BT EDR(3Mbps): 8-DPSK<br>WIFI: CCK/OFDM/DBPSK/DAPSK<br>GSM/GPRS/EDGE: GMSK<br>RMC/AMR: QPSK<br>HSDPA: QPSK<br>HSUPA: QPSK                                                |
| Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual. |                                                                                             |                                                                                                                                                                                                                              |
| Power Source                                                                                                                                                                                                       | DC Voltage                                                                                  |                                                                                                                                                                                                                              |
| Adapter                                                                                                                                                                                                            | Model:Brio S430<br>Input: 100-240V~,50/60 Hz<br>Output: 5.0V $\overline{\text{---}}$ , 1.0A |                                                                                                                                                                                                                              |
| Battery                                                                                                                                                                                                            | DC 3.7V ,1100mAh                                                                            |                                                                                                                                                                                                                              |

## 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description      |
|--------------|------------------|
| Mode 1       | Playing+charging |
| Mode 2       | HDMI             |
| Mode 3       | Data Exchange    |
| Mode 4       | REC Mode         |

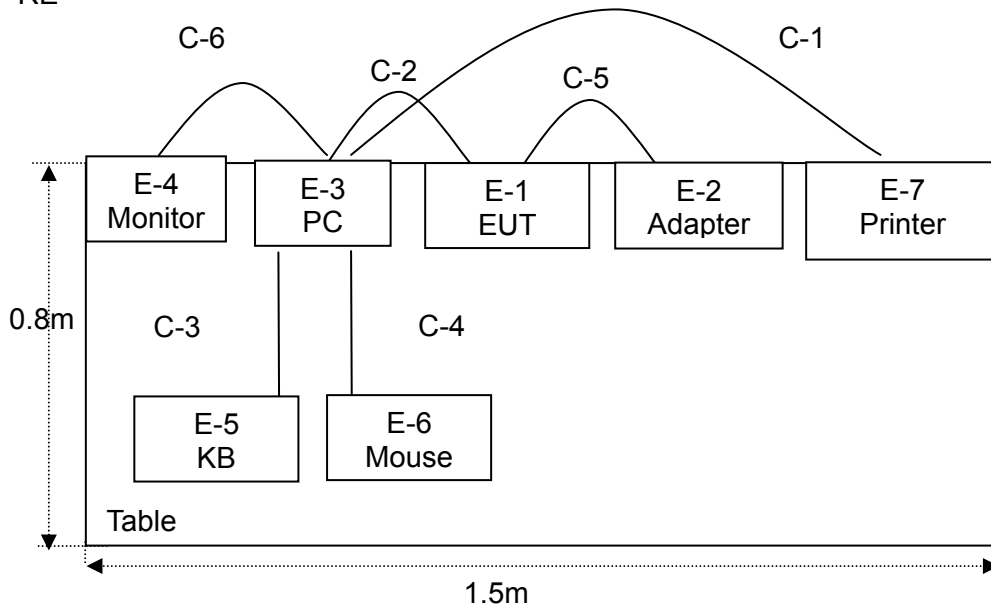
| For Conducted Test |                  |
|--------------------|------------------|
| Final Test Mode    | Description      |
| Mode 1             | Playing+charging |
| Mode 2             | HDMI             |
| Mode 3             | Data Exchange    |
| Mode 4             | REC Mode         |

| For Radiated Test |                  |
|-------------------|------------------|
| Final Test Mode   | Description      |
| Mode 1            | Playing+charging |
| Mode 2            | HDMI             |
| Mode 3            | Data Exchange    |
| Mode 4            | REC Mode         |

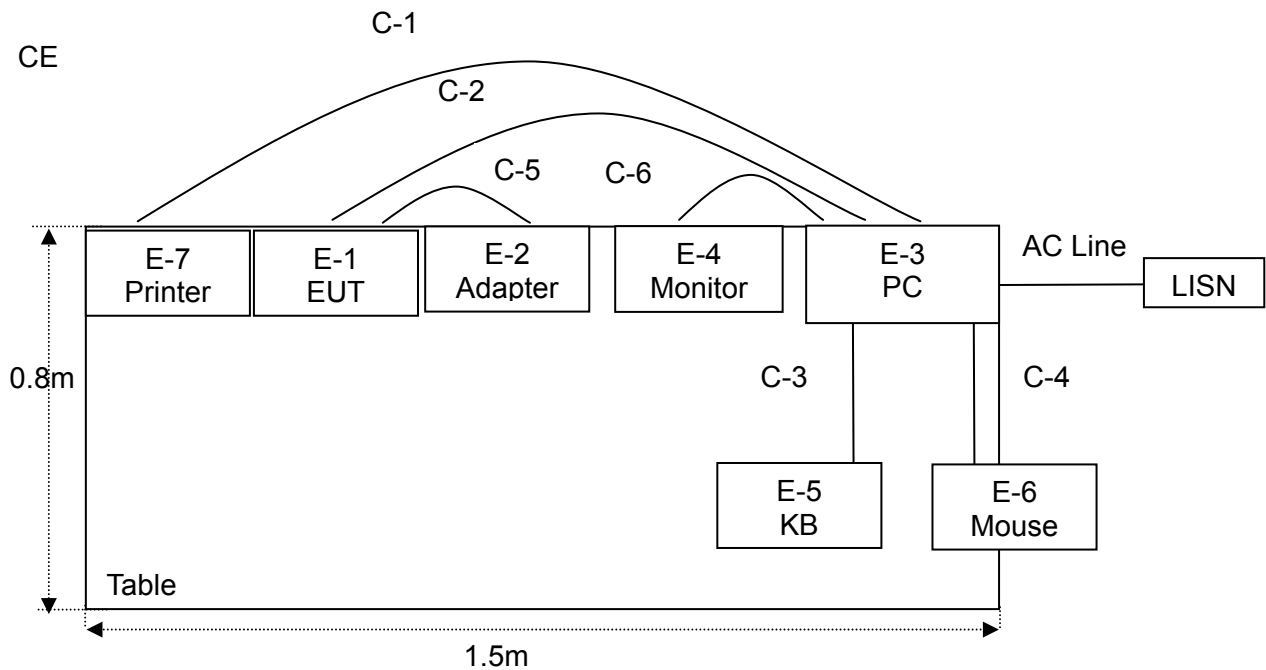
Note: Final Test Mode: Through Pre-scan, find the mode 3 is the worse case.  
Only the worst case mode is recorded in the report.

## 2.2 DESCRIPTION OF TEST SETUP

RE



CE



### 2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment         | Brand    | Model/Type No.        | Series No.               | Note |
|------|-------------------|----------|-----------------------|--------------------------|------|
| E-1  | Smart phone       | XTRATECH | XTRATECH<br>Brio S430 | N/A                      | EUT  |
| E-2  | ADAPTER           | N/A      | Brio S430             | N/A                      |      |
| E-3  | Personal computer | DELL     | FT4Y23X               | 34413561645              |      |
| E-4  | Monitor           | DELL     | IN2020MB              | cn-0y6mhx-74261-11f-67es |      |
| E-5  | Keyboard          | DELL     | SK-8185               | OY526KUS                 |      |
| E-6  | Mouse             | DELL     | MS111-P               | cn-011d3v-71581-11e-1th7 |      |
| E-7  | Printer           | Canon    | L11121E               | LBP2900                  |      |
|      |                   |          |                       |                          |      |
|      |                   |          |                       |                          |      |
|      |                   |          |                       |                          |      |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1  | NO            | NO           | 1.2m   |      |
| C-2  | NO            | NO           | 1.0m   |      |
| C-3  | NO            | NO           | 1.0m   |      |
| C-4  | NO            | NO           | 1.0m   |      |
| C-5  | NO            | NO           | 1.0m   |      |
| C-6  | NO            | NO           | 1.0m   |      |
|      |               |              |        |      |
|      |               |              |        |      |

**Note:**

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” means “shielded” “with core”; “NO” means “unshielded” “without core”.

## 2.4 MEASUREMENT INSTRUMENTS LIST

### 2.4.1 CONDUCTED TEST SITE

| Item | Kind of Equipment     | Manufacturer | Type No.   | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-----------------------|--------------|------------|------------|------------------|------------------|--------------------|
| 1    | LISN                  | R&S          | ENV216     | 101313     | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 2    | LISN                  | SCHWARZBECK  | NNLK 8129  | 8129245    | Dec. 25, 2013    | Dec. 24, 2014    | 1 year             |
| 3    | Pulse Limiter         | SCHWARZBECK  | VTSD 9561F | 9716       | Dec. 25, 2013    | Dec. 24, 2014    | 1 year             |
| 4    | 50Ω Switch            | ANRITSU CORP | MP59B      | 6200983704 | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 5    | Test Cable            | N/A          | C01        | N/A        | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 6    | Test Cable            | N/A          | C02        | N/A        | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 7    | Test Cable            | N/A          | C03        | N/A        | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 8    | EMI Test Receiver     | R&S          | ESCI       | 101160     | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 9    | Passive Voltage Probe | ESH2-Z3      | R&S        | 100196     | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 10   | Absorbing Clamp       | R&S          | MDS-21     | 100423     | Jul. 08, 2014    | Jul. 07, 2015    | 1 year             |

### 2.4.2 RADIATED TEST SITE

| Item | Kind of Equipment | Manufacturer | Type No.    | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-------------------|--------------|-------------|------------|------------------|------------------|--------------------|
| 1    | Bilog Antenna     | TESEQ        | CBL6111D    | 31216      | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 2    | Test Cable        | N/A          | R-01        | N/A        | Dec. 25, 2013    | Dec. 24, 2014    | 1 year             |
| 3    | Test Cable        | N/A          | R-02        | N/A        | Dec. 25, 2013    | Dec. 24, 2014    | 1 year             |
| 4    | EMI Test Receiver | R&S          | ESCI-7      | 101318     | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 5    | Antenna Mast      | EM           | SC100_1     | N/A        | N/A              | N/A              | N/A                |
| 6    | Turn Table        | EM           | SC100       | 060531     | N/A              | N/A              | N/A                |
| 7    | 50Ω Switch        | Anritsu Corp | MP59B       | 6200983705 | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 8    | Spectrum Analyzer | Aglient      | E4407B      | MY45108040 | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 9    | Horn Antenna      | EM           | EM-AH-10180 | 2011071402 | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 10   | Amplifier         | EM           | EM-30180    | 060538     | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |
| 11   | Loop Antenna      | ARA          | PLA-1030/B  | 1029       | Jul. 06, 2014    | Jul. 05, 2015    | 1 year             |

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

##### 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           |
|-----------------|----------------|---------|----------------|-----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |
| 0.15 -0.5       | 79.00          | 66.00   | 66 - 56 *      | 56 - 46 * |
| 0.50 -5.0       | 73.00          | 60.00   | 56.00          | 46.00     |
| 5.0 -30.0       | 73.00          | 60.00   | 60.00          | 50.00     |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

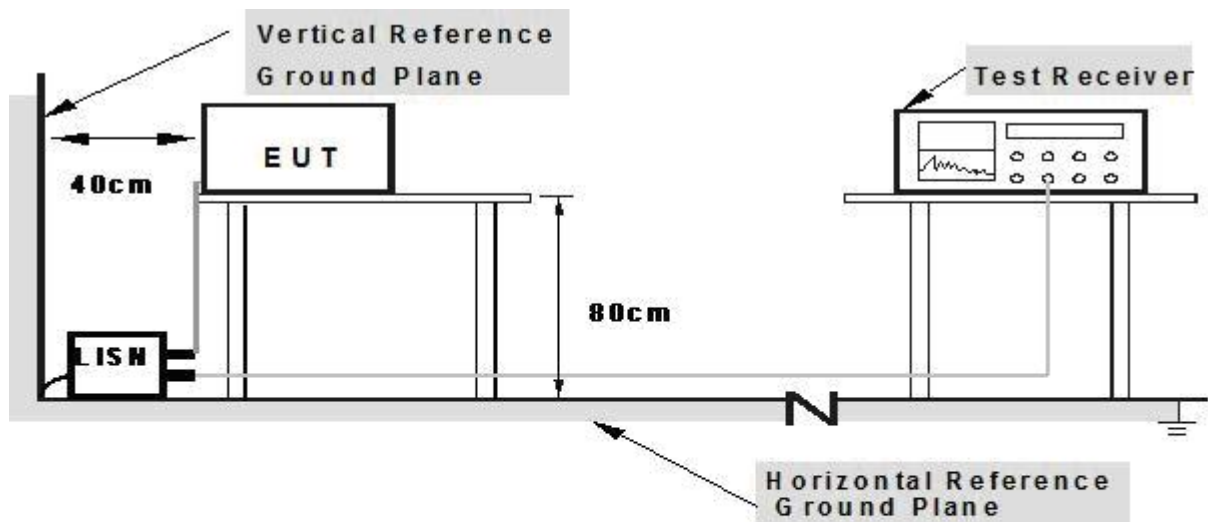
The following table is the setting of the receiver

| Receiver Parameters | Setting  |
|---------------------|----------|
| Attenuation         | 10 dB    |
| Start Frequency     | 0.15 MHz |
| Stop Frequency      | 30 MHz   |
| IF Bandwidth        | 9 kHz    |

### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

### 3.1.3 TEST SETUP



**Note: 1. Support units were connected to second LISN.**

**2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes**

### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

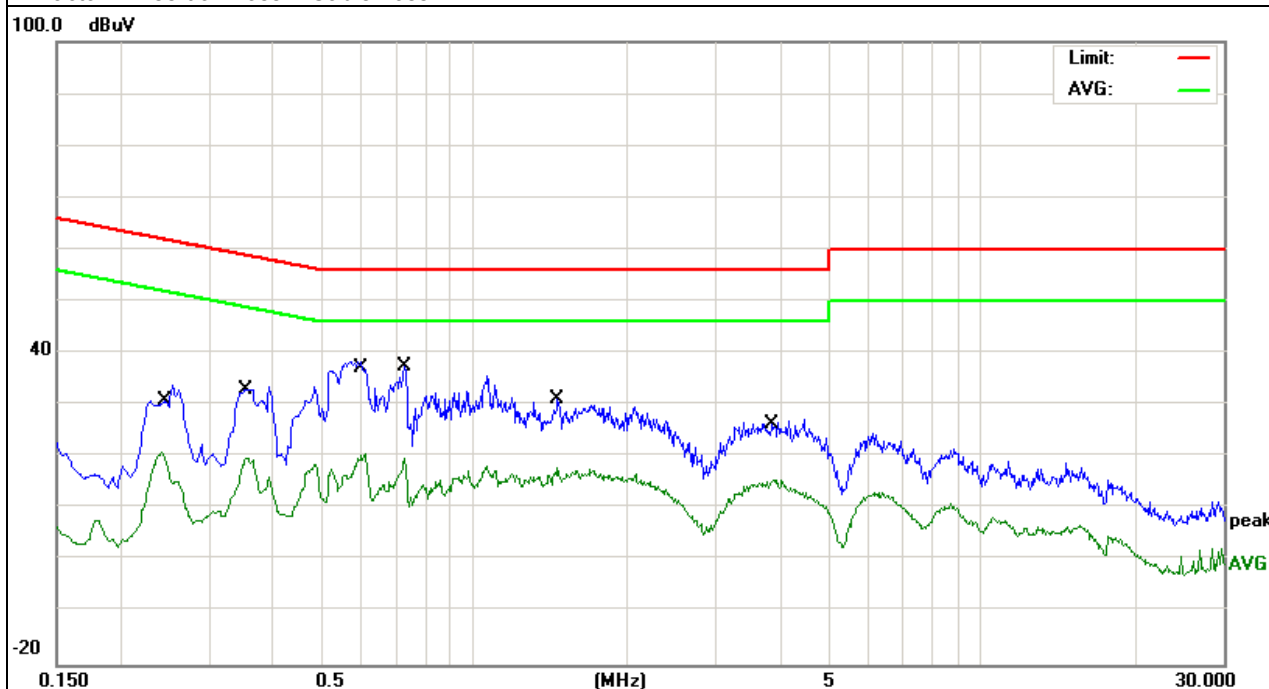
### 3.1.5 TEST RESULTS

|                |                                 |                     |                    |
|----------------|---------------------------------|---------------------|--------------------|
| EUT :          | Smart phone                     | Model Name. :       | XTRATECH Brio S430 |
| Temperature :  | 26 °C                           | Relative Humidity : | 54%                |
| Pressure :     | 1010hPa                         | Test Date :         | 2014-12-09         |
| Test Mode :    | Mode 3                          | Phase :             | L                  |
| Test Voltage : | DC 5V From ADAPTER AC 120V/60Hz |                     |                    |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2420    | 30.25         | 0.00           | 30.25        | 62.02  | -31.77 | QP     |
| 0.2420    | 20.82         | 0.00           | 20.82        | 52.02  | -31.20 | AVG    |
| 0.3540    | 33.08         | 0.00           | 33.08        | 58.87  | -25.79 | QP     |
| 0.3540    | 19.87         | 0.00           | 19.87        | 48.87  | -29.00 | AVG    |
| 0.6100    | 36.88         | 0.00           | 36.88        | 56.00  | -19.12 | QP     |
| 0.6100    | 20.52         | 0.00           | 20.52        | 46.00  | -25.48 | AVG    |
| 0.7300    | 37.35         | 0.00           | 37.35        | 56.00  | -18.65 | QP     |
| 0.7300    | 19.72         | 0.00           | 19.72        | 46.00  | -26.28 | AVG    |
| 1.4620    | 31.25         | 0.00           | 31.25        | 56.00  | -24.75 | QP     |
| 1.4620    | 17.87         | 0.00           | 17.87        | 46.00  | -28.13 | AVG    |
| 3.8900    | 25.51         | 0.00           | 25.51        | 56.00  | -30.49 | QP     |
| 3.8900    | 15.61         | 0.00           | 15.61        | 46.00  | -30.39 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

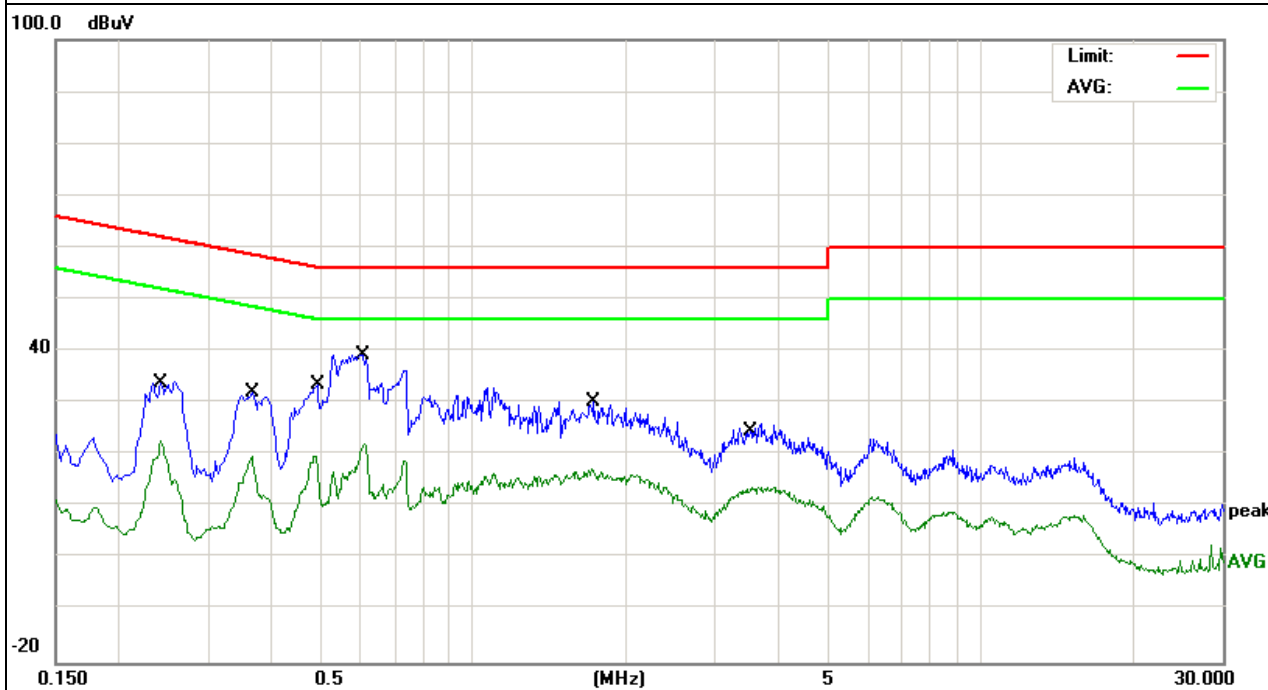


|                |                                 |                     |                    |
|----------------|---------------------------------|---------------------|--------------------|
| EUT :          | Smart phone                     | Model Name. :       | XTRATECH Brio S430 |
| Temperature :  | 26 °C                           | Relative Humidity : | 54%                |
| Pressure :     | 1010hPa                         | Test Date :         | 2014-12-09         |
| Test Mode :    | Mode 3                          | Phase :             | N                  |
| Test Voltage : | DC 5V From ADAPTER AC 120V/60Hz |                     |                    |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz)     | (dBμV)        | (dB)           | (dBμV)       | (dBμV) | (dB)   |        |
| 0.2420    | 33.74         | 0.00           | 33.74        | 62.02  | -28.28 | QP     |
| 0.2420    | 22.80         | 0.00           | 22.80        | 52.02  | -29.22 | AVG    |
| 0.3660    | 31.92         | 0.00           | 31.92        | 58.59  | -26.67 | QP     |
| 0.3660    | 19.90         | 0.00           | 19.90        | 48.59  | -28.69 | AVG    |
| 0.4900    | 33.20         | 0.00           | 33.20        | 56.17  | -22.97 | QP     |
| 0.4900    | 19.90         | 0.00           | 19.90        | 46.17  | -26.27 | AVG    |
| 0.6100    | 37.48         | 0.00           | 37.48        | 56.00  | -18.52 | QP     |
| 0.6100    | 22.04         | 0.00           | 22.04        | 46.00  | -23.96 | AVG    |
| 1.7100    | 29.14         | 0.00           | 29.14        | 56.00  | -26.86 | QP     |
| 1.7100    | 17.34         | 0.00           | 17.34        | 46.00  | -28.66 | AVG    |
| 3.5380    | 24.31         | 0.00           | 24.31        | 56.00  | -31.69 | QP     |
| 3.5380    | 13.79         | 0.00           | 13.79        | 46.00  | -32.21 | AVG    |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



## 3.2 RADIATED EMISSION MEASUREMENT

### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 3m) |
|-----------------|------------------|-----------------|
|                 | dBuV/m           | dBuV/m          |
| 30 ~ 88         | 39.0             | 40.0            |
| 88 ~ 216        | 43.5             | 43.5            |
| 216 ~ 960       | 46.5             | 46.0            |
| Above 960       | 49.5             | 54.0            |

Notes:

- (1) The limit for radiated test was performed according to as following:  
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

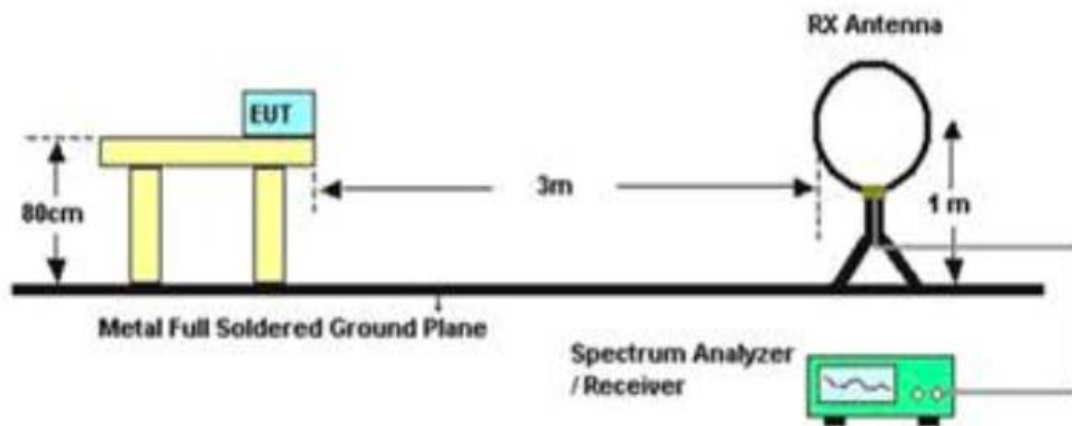
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report  
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000           | QP       | 120 kHz              | 300 kHz         |
| Above 1000           | Peak     | 1 MHz                | 1 MHz           |
|                      | Peak     | 1 MHz                | 10 Hz           |

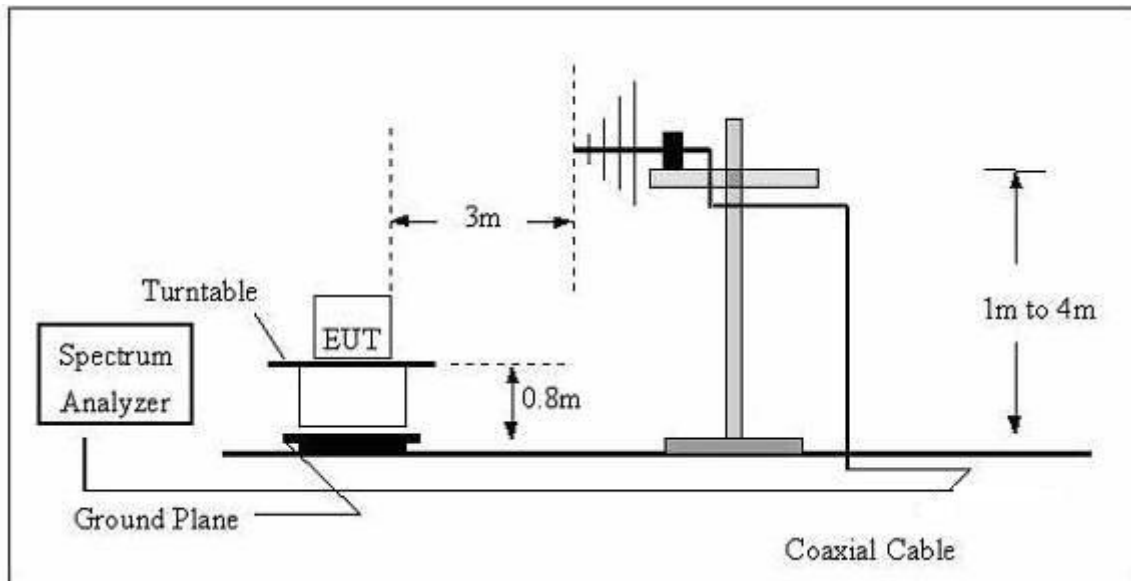
### 3.2.3 TEST SETUP

#### (A) Radiated Emission Test Set-Up Frequency Below 1 GHz

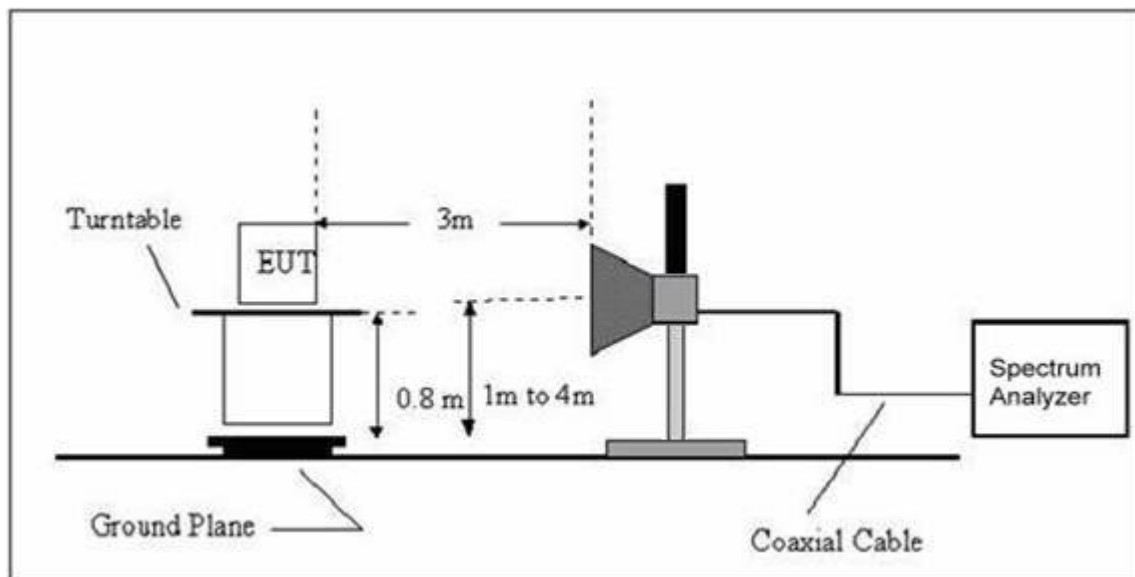
For radiated emissions below 30MHz



For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



### 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

### 3.2.5 TEST RESULTS

#### TEST RESULTS (Below 30 MHz)

|               |             |                     |                    |
|---------------|-------------|---------------------|--------------------|
| EUT :         | Smart phone | Model Name :        | XTRATECH Brio S430 |
| Temperature : | 20 °C       | Relative Humidity : | 48%                |
| Pressure :    | 1010 hPa    | Test Voltage :      | ---                |
| Test Mode :   | TX          | Polarization :      | ---                |

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | P     |
| --    | --       | --       | --     | P     |

#### NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

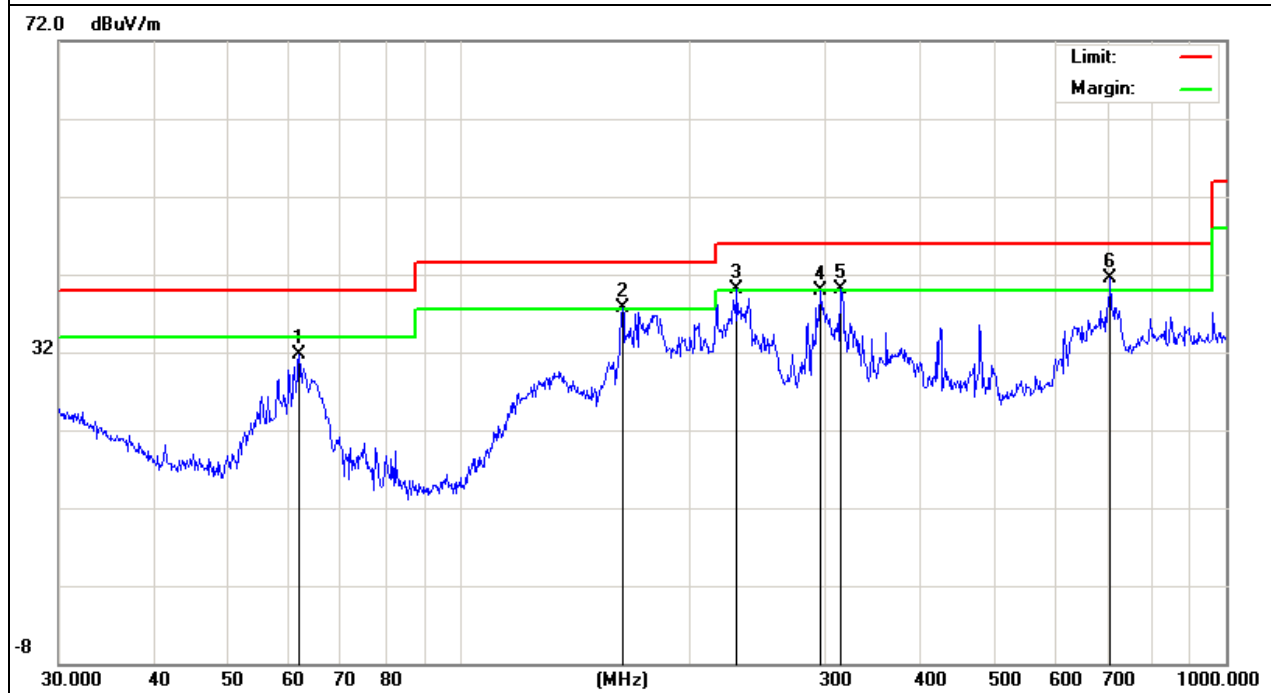
# TEST RESULTS (30~1000 MHz)

|               |                                 |                     |                    |
|---------------|---------------------------------|---------------------|--------------------|
| EUT :         | Smart phone                     | Model Name :        | XTRATECH Brio S430 |
| Temperature : | 24 °C                           | Relative Humidity : | 54%                |
| Pressure :    | 1010 hPa                        | Test Date :         | 2014-12-09         |
| Test Mode :   | Mode 3                          | Polarization :      | Horizontal         |
| Test Power :  | DC 5V From ADAPTER AC 120V/60Hz |                     |                    |

| Freq.<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dBuV) | Measurement<br>(dBuV) | Limit<br>(dBuV) | Over<br>(dB) | Remark |
|----------------|-------------------|------------------|-----------------------|-----------------|--------------|--------|
| 61.7781        | 24.32             | 7.43             | 31.75                 | 40.00           | -8.25        | QP     |
| 163.1818       | 27.15             | 10.51            | 37.66                 | 43.50           | -5.84        | QP     |
| 230.0985       | 27.36             | 12.81            | 40.17                 | 46.00           | -5.83        | QP     |
| 295.1469       | 25.83             | 14.10            | 39.93                 | 46.00           | -6.07        | QP     |
| 314.3765       | 25.32             | 14.75            | 40.07                 | 46.00           | -5.93        | QP     |
| 706.6997       | 16.45             | 24.97            | 41.42                 | 46.00           | -4.58        | QP     |

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

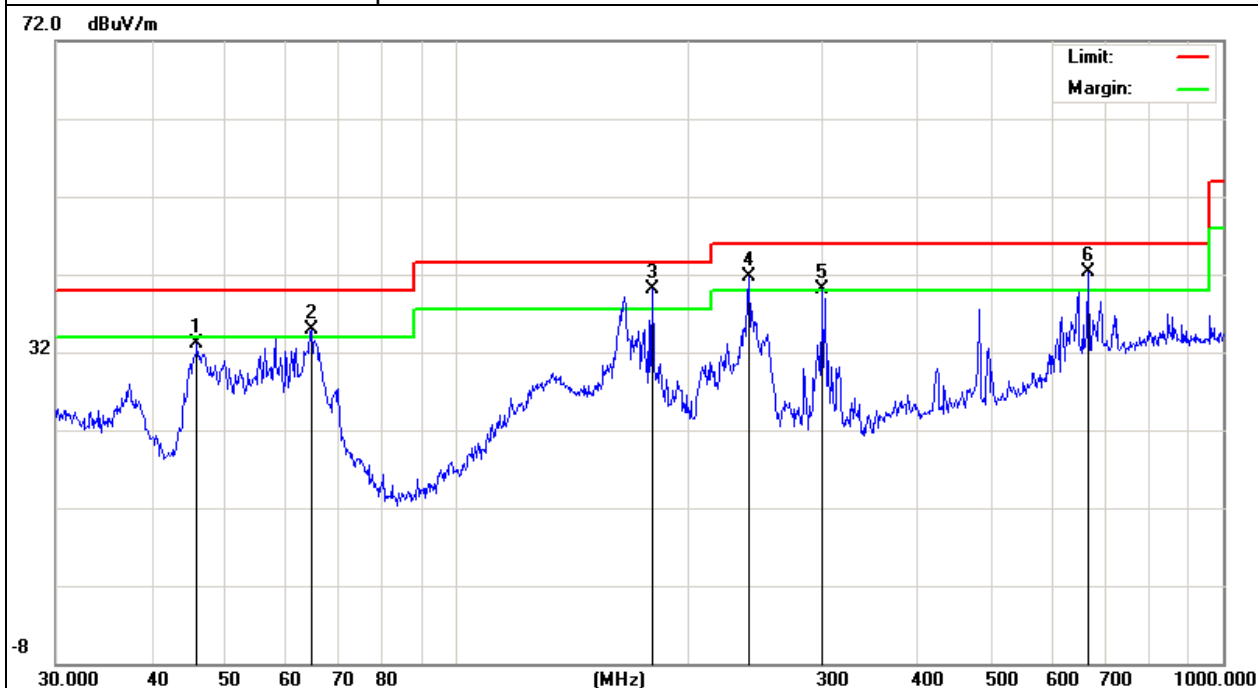


|               |                                 |                     |                    |
|---------------|---------------------------------|---------------------|--------------------|
| EUT :         | Smart phone                     | Model Name :        | XTRATECH Brio S430 |
| Temperature : | 24 °C                           | Relative Humidity : | 54%                |
| Pressure :    | 1010 hPa                        | Test Date :         | 2014-12-09         |
| Test Mode :   | Mode 3                          | Polarization :      | Vertical           |
| Test Power :  | DC 5V From ADAPTER AC 120V/60Hz |                     |                    |

| Freq.<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dBuV) | Measurement<br>(dBuV) | Limit<br>(dBuV) | Over<br>(dB) | Remark |
|----------------|-------------------|------------------|-----------------------|-----------------|--------------|--------|
| 45.8551        | 21.30             | 11.72            | 33.02                 | 40.00           | -6.98        | QP     |
| 64.6594        | 28.12             | 6.78             | 34.90                 | 40.00           | -5.10        | QP     |
| 180.0165       | 29.44             | 10.63            | 40.07                 | 43.50           | -3.43        | QP     |
| 240.8301       | 28.16             | 13.49            | 41.65                 | 46.00           | -4.35        | QP     |
| 300.3672       | 26.04             | 14.16            | 40.20                 | 46.00           | -5.80        | QP     |
| 665.8034       | 18.47             | 23.85            | 42.32                 | 46.00           | -3.68        | QP     |

Remark:

1. All readings are Peak and Average values.
2. Factor = Antenna Factor + Cable Loss - Amplifier.
3. N/A means All Data have pass Limit



### 3.2.6 TEST RESULTS(1000~12400MHz)

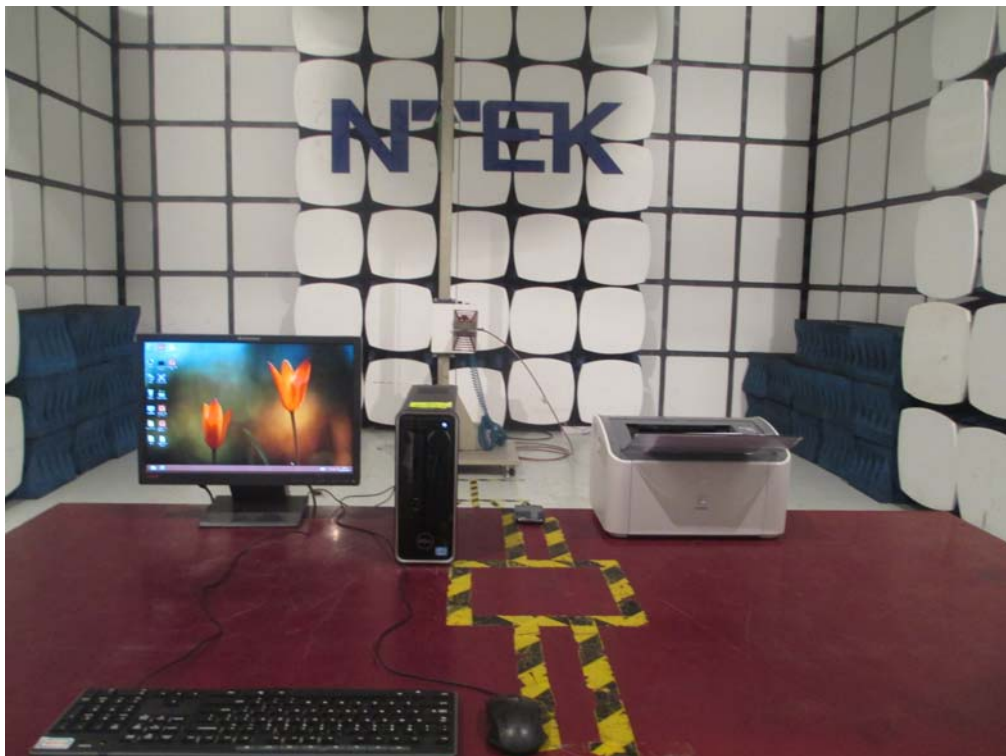
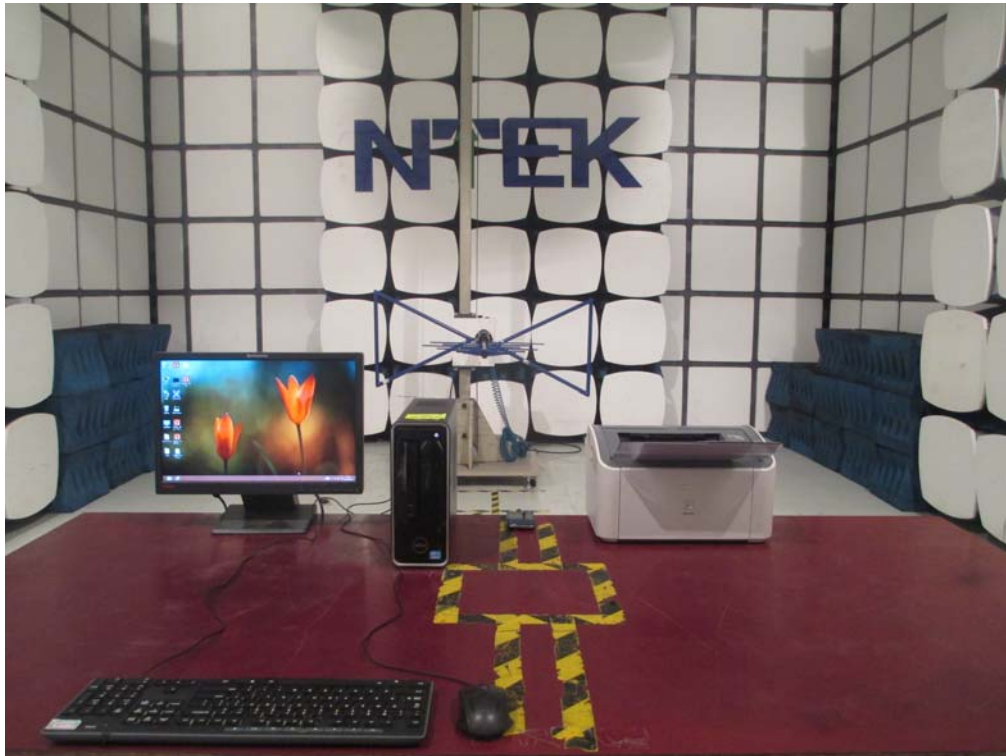
| Polar<br>(H/V) | Frequency | Meter Reading | Factor | Emission<br>Level | Limits | Margin | Remark |
|----------------|-----------|---------------|--------|-------------------|--------|--------|--------|
|                | (MHz)     | (dBm)         | (dB)   | (dBm)             | (dBm)  | (dB)   |        |
| V              | 1190.992  | 64.71         | -17.57 | 47.14             | 74     | -26.86 | peak   |
| V              | 1190.992  | 42.31         | -17.57 | 24.74             | 54     | -29.26 | AVG    |
| V              | 2003.083  | 62.98         | -12.6  | 50.38             | 74     | -23.62 | peak   |
| V              | 2003.083  | 41.53         | -12.6  | 28.93             | 54     | -25.07 | AVG    |
| V              | 2328.469  | 62.52         | -12.35 | 50.17             | 74     | -23.83 | peak   |
| V              | 2328.469  | 39.93         | -12.35 | 27.58             | 54     | -26.42 | AVG    |
| V              | 2728.276  | 62.64         | -11.08 | 51.56             | 74     | -22.44 | peak   |
| V              | 2728.276  | 40.25         | -11.08 | 29.17             | 54     | -24.83 | AVG    |
| V              | 2928.364  | 61.93         | -11.26 | 50.67             | 74     | -23.33 | peak   |
| V              | 2928.364  | 41.89         | -11.26 | 30.63             | 54     | -23.37 | AVG    |
| V              | 4053.178  | 58.72         | -5.28  | 53.44             | 74     | -20.56 | peak   |
| V              | 4053.178  | 37.32         | -5.28  | 32.04             | 54     | -21.96 | AVG    |
| H              | 1391.482  | 59.54         | -16.73 | 42.81             | 74     | -31.19 | peak   |
| H              | 1391.482  | 39.35         | -16.73 | 22.62             | 54     | -31.38 | AVG    |
| H              | 1591.108  | 59.93         | -15.8  | 44.13             | 74     | -29.87 | peak   |
| H              | 1591.108  | 40.12         | -15.8  | 24.32             | 54     | -29.68 | AVG    |
| H              | 2002.997  | 58.34         | -12.6  | 45.74             | 74     | -28.26 | peak   |
| H              | 2002.997  | 37.73         | -12.6  | 25.13             | 54     | -28.87 | AVG    |
| H              | 2778.376  | 58.14         | -10.91 | 47.23             | 74     | -26.77 | peak   |
| H              | 2778.376  | 36.86         | -10.91 | 25.95             | 54     | -28.05 | AVG    |
| H              | 3866.161  | 54.78         | -6.55  | 48.23             | 74     | -25.77 | peak   |
| H              | 3866.161  | 33.18         | -6.55  | 26.63             | 54     | -27.37 | AVG    |
| H              | 4841.005  | 52.64         | -2.85  | 49.79             | 74     | -24.21 | peak   |
| H              | 4841.005  | 31.58         | -2.85  | 28.73             | 54     | -25.27 | AVG    |

**Remark:**

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

#### 4. EUT TEST PHOTO

**Radiated Measurement Photos**



### Conducted Measurement Photos

