

FCC Radio Test Report

FCC ID: QISY560-L03

This report concerns (check one): Original Grant Class II Change

Project No. : 1505C241A
Equipment : Smart Phone
Model Name : HUAWEI Y560-L03, Y560-L03
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Date of Receipt : May 25, 2015
Date of Test : May 25, 2015 ~ Jun. 23, 2015
Issued Date : Jun. 24, 2015
Tested by : BTL Inc.

Testing Engineer : David Mao
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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C**, or National Institute of Standards and Technology (**NIST**) of **U.S.A**.

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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REPORT ISSUED HISTORY

| Issued No. | Description | Issued Date |
|----------------------|--|---------------|
| BTL-FCCP-3-1505C241 | Original report. | Jun. 19, 2015 |
| BTL-FCCP-3-1505C241A | Compared with the previous report (BTL-FCCP-3-1505C241), model HUAWEI Y560-L23, Y560-L23 support dual cards, and now, model HUAWEI Y560-L03, Y560-L03 only support single card, so the radiated emission by worst case has been retested and record in this report, the original models' test results please refer to original report. | Jun. 24, 2015 |

1. CERTIFICATION

Equipment : Smart Phone
Brand Name : HUAWEI
Model Name : HUAWEI Y560-L03, Y560-L03
Applicant : Huawei Technologies Co., Ltd.
Manufacturer : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of Huawei Technologies Co., Ltd.,
Bantian, Longgang District, Shenzhen, 518129, P.R.C
Date of Test : May 25, 2015 ~ Jun. 23, 2015
Test Sample : ENGINEERING SAMPLE
Standard(s) : FCC Part15, Subpart C :2014 (15.247) / ANSI C63.4-2009

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-3-1505C241A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

| Applied Standard(s): FCC Part15 (15.247) , Subpart C | | | | |
|---|---------------|-------------------------------------|----------|-----------------|
| Standard(s) | Section | Test Item | Judgment | Remark |
| | 15.207 | Conducted Emission | N/A | NOTE (1) |
| | 15.247(d) | Antenna conducted Spurious Emission | N/A | NOTE (1) |
| | 15.247(a)(2) | 6dB Bandwidth | N/A | NOTE (1) |
| | 15.247(b)(3) | Peak Output Power | N/A | NOTE (1) |
| | 15.247(e) | Power Spectral Density | N/A | NOTE (1) |
| | 15.203 | Antenna Requirement | N/A | NOTE (1) |
| | 15.209/15.205 | Transmitter Radiated Emissions | PASS | |

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

(2) The test follows FCC KDB Publication No. 558074 D01 DTS Meas Guidance v03r03 (Measurement Guidelines of DTS)

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 319330

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded 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. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | Ant. H / V | U, (dB) | Note |
|-----------|--------|-----------------------------|------------|---------|------|
| DG-CB03 | CISPR | 9KHz~30MHz | V | 3.79 | |
| | | 9KHz~30MHz | H | 3.57 | |
| | | 30MHz ~ 200MHz | V | 3.82 | |
| | | 30MHz ~ 200MHz | H | 3.60 | |
| | | 200MHz ~ 1,000MHz | V | 3.86 | |
| | | 200MHz ~ 1,000MHz | H | 3.94 | |
| | | 1GHz~18GHz | V | 3.12 | |
| | | 1GHz~18GHz | H | 3.68 | |
| | | 18GHz~40GHz | V | 4.15 | |
| | | 18GHz~40GHz | H | 4.14 | |

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| | | |
|---------------------|--|-------------------|
| Equipment | Smart Phone | |
| Brand Name | HUAWEI | |
| Model Name | HUAWEI Y560-L03, Y560-L03 | |
| Model Difference | Only differ in model name. | |
| Product Description | Operation Frequency | 2402~2480 MHz |
| | Modulation Technology | GFSK(1Mbps) |
| | Bit Rate of Transmitter | |
| | Output Power (Max.) | -0.41 dBm (1Mbps) |
| Power Source | #1 DC voltage supplied from AC/DC adapter. Brand / Model: HUAWEI / HW-050100U01 #2 Supplied from battery. Brand / Model: HUAWEI / HB474284RBC | |
| Power Rating | #1 I/P: 100-240V~ 50/60H 0.2A O/P: DC 5V 1A #2 DC 3.8V 2000mAh | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2. Channel List:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 00 | 2402 | 20 | 2442 |
| 01 | 2404 | 21 | 2444 |
| 02 | 2406 | 22 | 2446 |
| 03 | 2408 | 23 | 2448 |
| 04 | 2410 | 24 | 2450 |
| 05 | 2412 | 25 | 2452 |
| 06 | 2414 | 26 | 2454 |
| 07 | 2416 | 27 | 2456 |
| 08 | 2418 | 28 | 2458 |
| 09 | 2420 | 29 | 2460 |
| 10 | 2422 | 30 | 2462 |
| 11 | 2424 | 31 | 2464 |
| 12 | 2426 | 32 | 2466 |
| 13 | 2428 | 33 | 2468 |
| 14 | 2430 | 34 | 2470 |
| 15 | 2432 | 35 | 2472 |
| 16 | 2434 | 36 | 2474 |
| 17 | 2436 | 37 | 2476 |
| 18 | 2438 | 38 | 2478 |
| 19 | 2440 | 39 | 2480 |

3. Table for Filed Antenna:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | N/A | N/A | Internal | N/A | -1.5 |

3.2 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 | TX Mode NOTE (1) |

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

| For Radiated Test | |
|-------------------|-------------------------|
| Final Test Mode | Description |
| Mode 1 | TX Mode Note (1) |

Note:

- (1) The measurements are performed at the high, middle, low available channels.
- (2) Both adapter and battery are evaluated, operated the adapter is the worst and recorded as below test data
- (3) The EUT is considered a portable unit, it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test

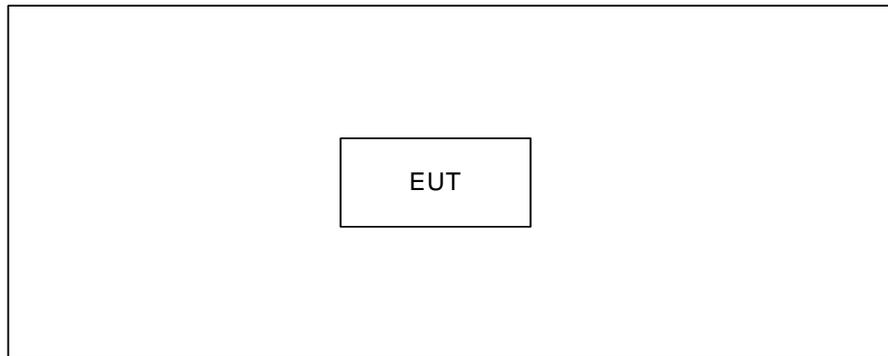
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN

| | | | |
|-----------------------|------|------|------|
| Test Software Version | 0 | | |
| Frequency (MHz) | 2402 | 2440 | 2480 |
| BT LE | NA | NA | NA |

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated TX Mode:



3.5 DESCRIPTION OF SUPPORT UNITS

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 | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note |
|------|-----------|-----------|----------------|--------|------------|------|
| - | - | - | - | - | - | - |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| - | - | - | - | |

Note:

- (1) For detachable type I/O cable should be specified the length in m in 『Length』 column.

4. EMC EMISSION TEST

4.1 RADIATED EMISSION LIMITS

20dB in any 100 KHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| 960~1000 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| Frequency (MHz) | (dBuV/m) (at 3 meters) | |
|-----------------|------------------------|---------|
| | PEAK | AVERAGE |
| Above 1000 | 74 | 54 |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
 Margin Level = Measurement Value - Limit Value

| Spectrum Parameter | Setting |
|--|---|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RBW / VBW (Emission in restricted band) | RBW 1MHz VBW 3MHz peak detector for Pk value RMS detector for AV value |

| Receiver Parameter | Setting |
|------------------------|-----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9KHz~90KHz for PK/AVG detector |
| Start ~ Stop Frequency | 90KHz~110KHz for QP detector |
| Start ~ Stop Frequency | 110KHz~490KHz for PK/AVG detector |
| Start ~ Stop Frequency | 490KHz~30MHz for QP detector |
| Start ~ Stop Frequency | 30MHz~1000MHz for QP detector |

4.2 TEST PROCEDURE

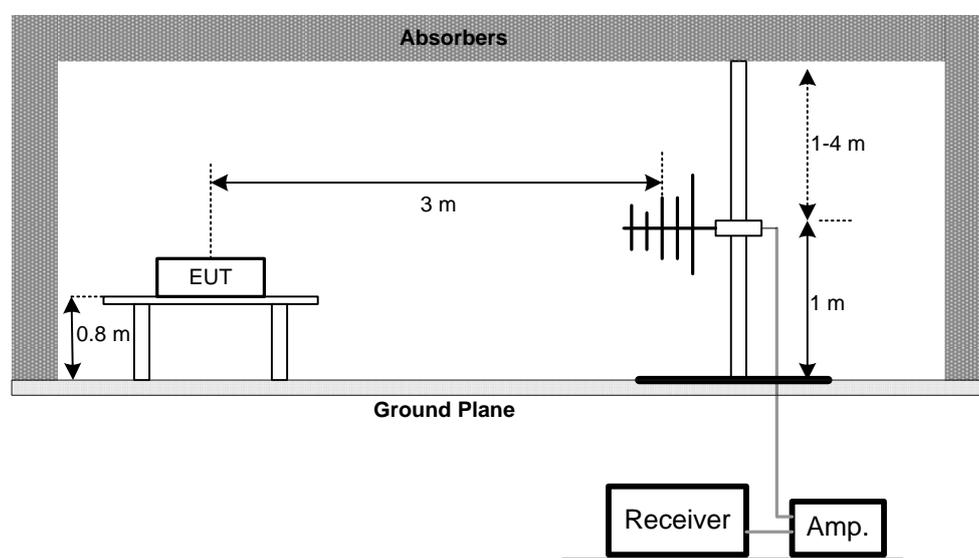
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.3 DEVIATION FROM TEST STANDARD

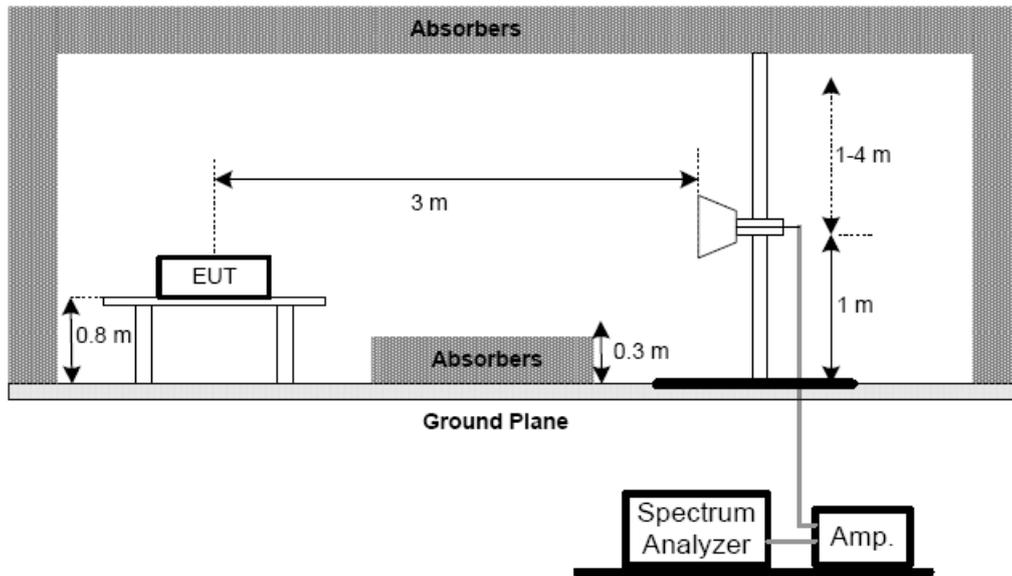
No deviation

4.4 TEST SETUP

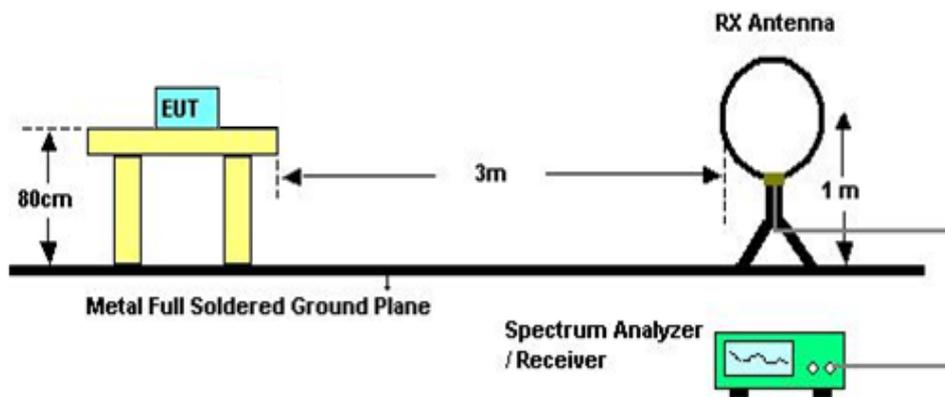
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



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



(C) For radiated emissions below 30MHz



4.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 55% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Attachment A

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.8 TEST RESULTS (30MHZ TO 1000 MHZ)

Please refer to the Attachment B.

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

4.9 TEST RESULTS (ABOVE 1000 MHZ)

Please refer to the Attachment C.

Remark:

- (1) No limit: This is fundamental signal, the judgment is not applicable.
For fundamental signal judgment was referred to Peak output test.

5. MEASUREMENT INSTRUMENTS LIST

| Radiated Emission Measurement | | | | | |
|-------------------------------|-------------------------|--------------|------------------------------|------------|------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
| 1 | Antenna | Schwarbeck | VULB9160 | 9160-3232 | Mar. 28, 2016 |
| 2 | Amplifier | HP | 8447D | 2944A09673 | Nov. 17, 2015 |
| 3 | Receiver | AGILENT | N9038A | MY52130039 | Sep. 30, 2015 |
| 4 | Test Cable | N/A | C-01_CB03 | N/A | Jul. 01, 2015 |
| 5 | Controller | CT | SC100 | N/A | N/A |
| 6 | Measurement Software | Farad | EZ-EMC Ver.NB-03A1-0 1 | N/A | N/A |
| 7 | Antenna | ETS | 3115 | 00075789 | Mar. 28, 2016 |
| 8 | Amplifier | Agilent | 8449B | 3008A02274 | Nov. 02, 2015 |
| 9 | Receiver | AGILENT | N9038A | MY52130039 | Sep. 30, 2015 |
| 10 | Test Cable | N/A | C-68 | N/A | Jul. 01, 2015 |
| 11 | Controller | CT | SC100 | N/A | N/A |
| 12 | Broad-Band Horn Antenna | Schwarzbeck | BBHA 9170 | 9170319 | Mar. 28, 2016 |
| 13 | Active Loop Antenna | R&S | HFH2-Z2 | 830749/020 | Aug. 16, 2015 |

Remark: "N/A" denotes no model name, serial no. or calibration specified.
All calibration period of equipment list is one year.

ATTACHMENT A - RADIATED EMISSION (9KHZ TO 30MHZ)

| | |
|------------|---------|
| Test Mode: | TX Mode |
|------------|---------|

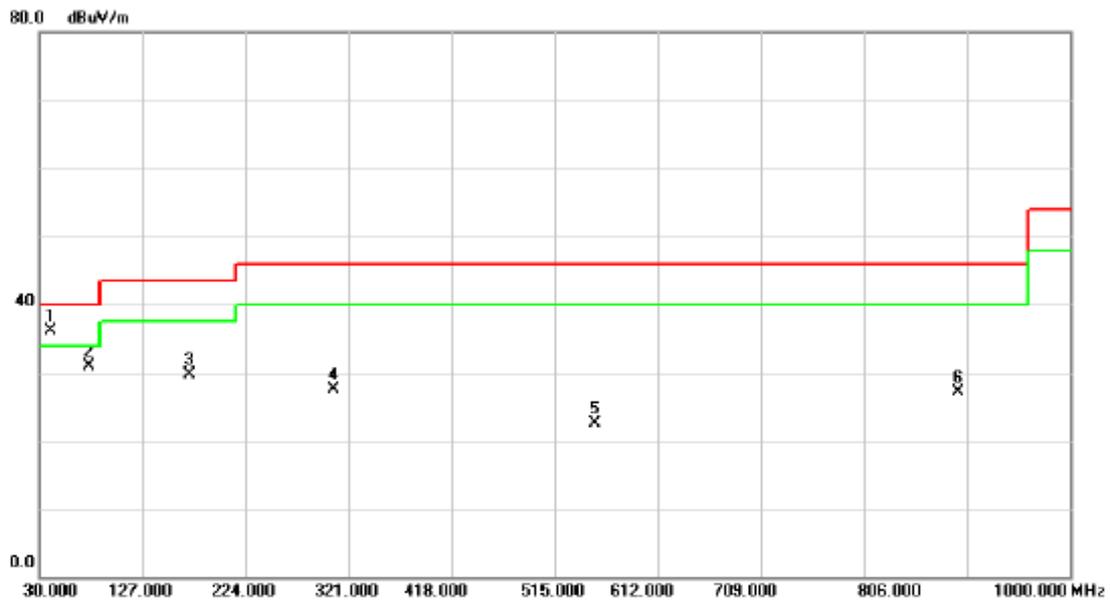
| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0169 | 0° | 13.62 | 24.50 | 38.12 | 123.05 | -84.93 | AVG |
| 0.0169 | 0° | 14.73 | 24.50 | 39.23 | 143.05 | -103.82 | PK |
| 0.0372 | 0° | 6.79 | 23.21 | 30.00 | 116.19 | -86.19 | AVG |
| 0.0372 | 0° | 7.73 | 23.21 | 30.94 | 136.19 | -105.25 | PK |
| 0.0384 | 0° | 3.75 | 23.13 | 26.88 | 115.92 | -89.03 | AVG |
| 0.0384 | 0° | 5.68 | 23.13 | 28.81 | 135.92 | -107.10 | PK |
| 0.0483 | 0° | 0.79 | 22.51 | 23.30 | 113.93 | -90.63 | AVG |
| 0.0483 | 0° | 3.23 | 22.51 | 25.74 | 133.93 | -108.19 | PK |
| 2.0672 | 0° | 30.72 | 19.46 | 50.18 | 69.54 | -19.36 | QP |
| 3.3691 | 0° | 21.85 | 18.94 | 40.79 | 69.54 | -28.75 | QP |

| Frequency (MHz) | Ant 0°/90° | Read level dBuV/m | Factor (dB) | Measured(FS) (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Note |
|-----------------|------------|-------------------|-------------|-----------------------|----------------|-------------|------|
| 0.0167 | 90° | 13.75 | 24.30 | 38.05 | 123.15 | -85.10 | AVG |
| 0.0167 | 90° | 14.59 | 24.30 | 38.89 | 143.15 | -104.26 | PK |
| 0.0375 | 90° | 6.53 | 23.19 | 29.72 | 116.12 | -86.40 | AVG |
| 0.0375 | 90° | 8.94 | 23.19 | 32.13 | 136.12 | -103.99 | PK |
| 0.0392 | 90° | 3.73 | 23.08 | 26.81 | 115.74 | -88.92 | AVG |
| 0.0392 | 90° | 5.62 | 23.08 | 28.70 | 135.74 | -107.03 | PK |
| 0.0676 | 90° | 0.78 | 22.05 | 22.83 | 111.01 | -88.18 | AVG |
| 0.0676 | 90° | 2.93 | 22.05 | 24.98 | 131.01 | -106.03 | PK |
| 2.0583 | 90° | 30.64 | 19.47 | 50.11 | 69.54 | -19.43 | QP |
| 3.2478 | 90° | 21.63 | 18.92 | 40.55 | 69.54 | -28.99 | QP |

ATTACHMENT B - RADIATED EMISSION (30MHZ TO 1000MHZ)

Test Mode: TX 2402MHz -CH00

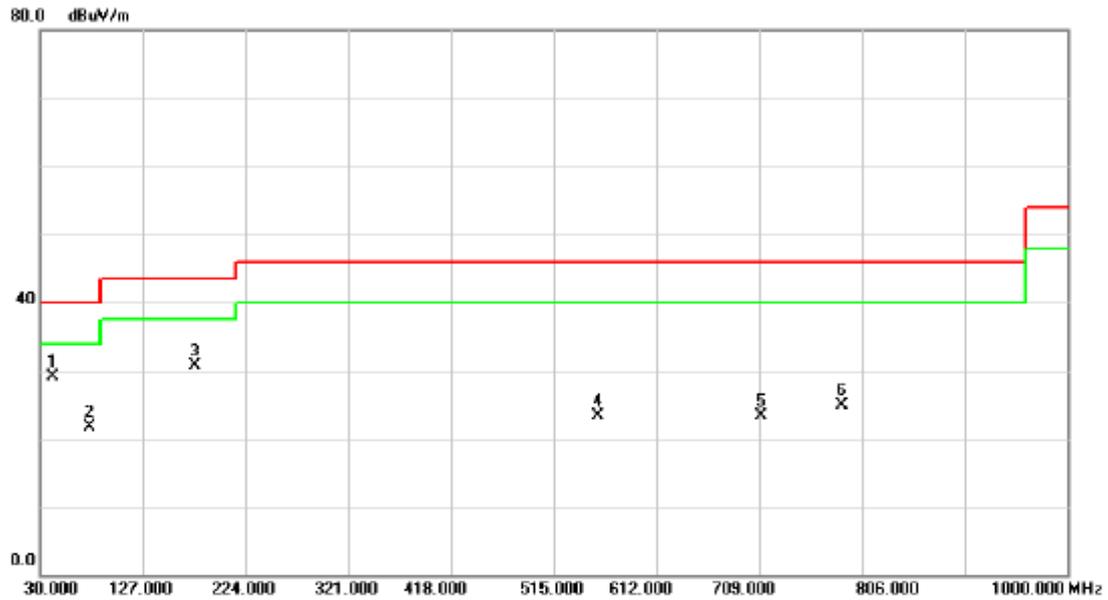
Vertical



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | * | 40.9400 | 49.87 | -13.83 | 36.04 | 40.00 | -3.96 | peak | |
| 2 | | 77.5300 | 47.28 | -16.47 | 30.81 | 40.00 | -9.19 | peak | |
| 3 | | 171.6200 | 42.55 | -12.89 | 29.66 | 43.50 | -13.84 | peak | |
| 4 | | 307.4200 | 38.07 | -10.63 | 27.44 | 46.00 | -18.56 | peak | |
| 5 | | 553.8000 | 27.89 | -5.35 | 22.54 | 46.00 | -23.46 | peak | |
| 6 | | 894.2700 | 27.16 | -0.06 | 27.10 | 46.00 | -18.90 | peak | |

Test Mode: TX 2402MHz -CH00

Horizontal

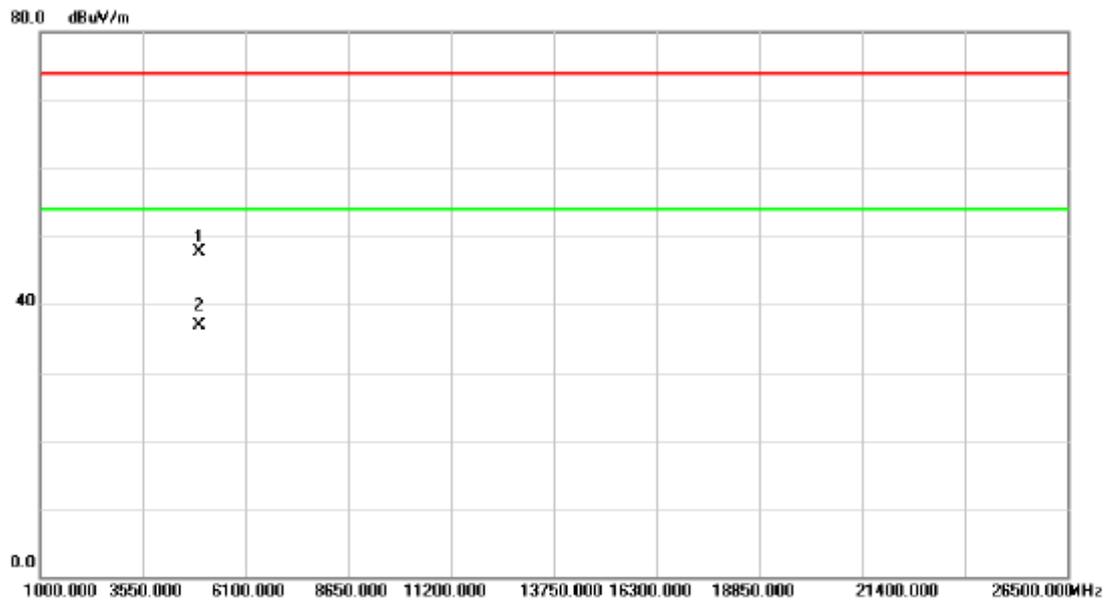


| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | * | 41.6400 | 42.79 | -13.72 | 29.07 | 40.00 | -10.93 | peak | |
| 2 | | 76.5600 | 38.18 | -16.40 | 21.78 | 40.00 | -18.22 | peak | |
| 3 | | 176.4700 | 43.66 | -12.92 | 30.74 | 43.50 | -12.76 | peak | |
| 4 | | 557.6800 | 28.89 | -5.56 | 23.33 | 46.00 | -22.67 | peak | |
| 5 | | 710.9400 | 27.62 | -4.29 | 23.33 | 46.00 | -22.67 | peak | |
| 6 | | 786.6000 | 27.75 | -2.75 | 25.00 | 46.00 | -21.00 | peak | |

ATTACHMENT C - RADIATED EMISSION (ABOVE 1000MHZ)

| | |
|-------------------|------------------|
| Orthogonal Axis : | X |
| Test Mode: | TX 2480MHz -CH39 |

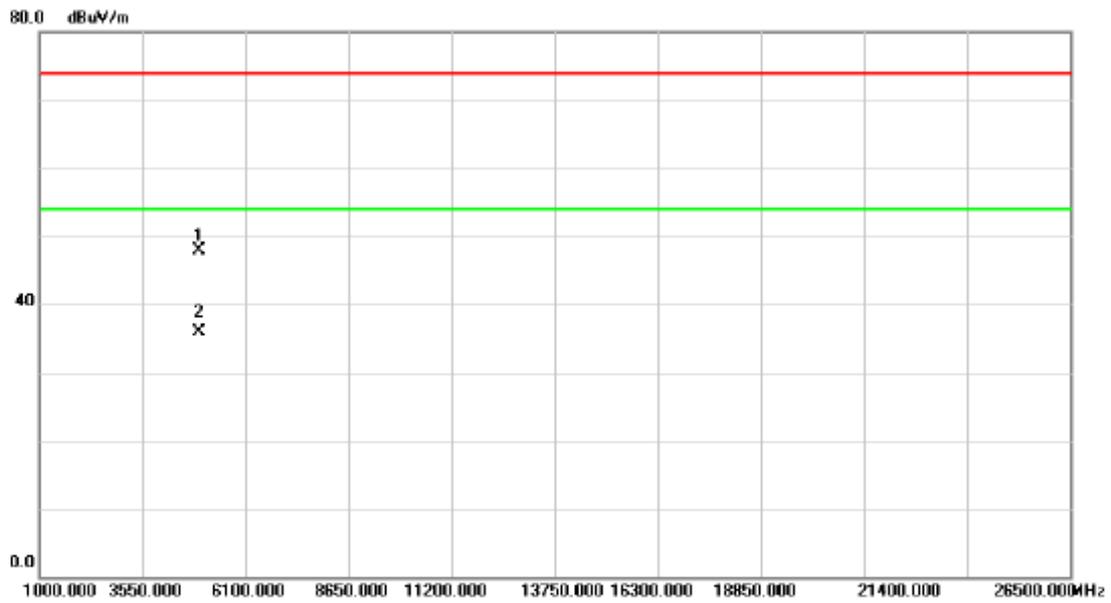
Vertical



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4961.360 | 41.48 | 6.24 | 47.72 | 74.00 | -26.28 | peak | |
| 2 | * | 4961.680 | 30.57 | 6.24 | 36.81 | 54.00 | -17.19 | AVG | |

| | |
|-------------------|------------------|
| Orthogonal Axis : | X |
| Test Mode: | TX 2480MHz -CH39 |

Horizontal



| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV/m | Limit dBuV/m | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|---------|
| 1 | | 4956.150 | 41.73 | 6.22 | 47.95 | 74.00 | -26.05 | peak | |
| 2 | * | 4961.240 | 29.61 | 6.24 | 35.85 | 54.00 | -18.15 | AVG | |