

FCC Test Report FCC ID: 2ADWUP4526A

Product: Smart phone

Trade Mark: Turbo E

Model Number: P4526A

Serial Model: P4526A1

Report No.: NTEK-2017NT04142703F4

Prepared for

ONE DIAMOND ELECTRONICS INC.

1450 Frazee Road, Suite 303, San Diego, California, United States

Prepared by

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TEST RESULT CERTIFICATION

Report No.: NTEK-2017NT04142703F4

| Address: | 1450 Frazee Road, Suite 303, San Diego, California, United States |
|-----------------------------------|---|
| Manufacturer's Name: | HUIZHOU MIKI COMMUNICATION EQUIPMENT CO.,LTD |
| /\ddrace · | No, 39, guangtai rd, huinan hi-tech industrial park, zhongkai hi-tech district, huizhou city |
| Product description | |
| Product name: | Smart phone |
| Model and/or type reference .: | |
| Standards | FCC Part15B:Apr 11.2017 ANSI C63.4:2014 |
| | s been tested by NTEK, and the test results show that the compliance with Part 15 of FCC Rules. And it is applicable only to be report. |
| | ced except in full, without the written approval of NTEK, this ised by NTEK, personnel only, and shall be noted in the revision of: |
| Date (s) of performance of tests. | : 14 Apr. 2017 ~ 05 Jun. 2017 |
| Date of Issue | : 05 Jun. 2017 |
| Test Result | : Pass |
| Testing Engine | er : Lebron Wang) |
| Technical Mar | nager:(Jason Chen) |
| Authorized Się | |



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1. TEST SUMMARY

Test procedures according to the technical standards:

| EMC Emission | | | | | | | |
|-----------------------------------|--------------------|---------|------|--|--|--|--|
| Standard Test Item Limit Judgment | | | | | | | |
| FCC Part15B:2014 | Conducted Emission | Class B | PASS | | | | |
| ANSI C63.4: 2014 | 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

Shenzhen NTEK Testing Technology Co., Ltd

Add.: 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 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 $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k}=2$, providing a level of confidence of approximately $\mathbf{95}$ %.

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 |
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Equipment Smart phone Turbo E Trade Mark P4526A Model Name Serial Model P4526A1 All the model are the same circuit and RF module. Model Difference except the SIM card and the colour of battery cover. The EUT is a Smart phone. Connecting I/O port: USB, DC in BT:2402~2480 MHz Operation Frequency: WIFI:802.11b/g/n(20):2412~2462MHz 802.11n(HT40):2422-2452MHz GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz; UMTS FDD Band V: TX826.4MHz~846.6MHz /RX871.4MHz~891.6MHz; UMTS FDD Band II: TX1852.4MHz~1907.6MHz /RX1932.4MHz~1987.6MHz; **Product Description** LTE FDD Band 2 Uplink: 1850.7MHz-1909.3MHz, Downlink: 1930.7MHz-1989.3MHz: LTE FDD Band 4 Uplink: 1710MHz-1755MHz, Downlink: 2110MHz-2155MHz LTE FDD Band 5 Uplink: 824.7MHz-849MHz, Downlink: 869.7MHz-894MHz LTE FDD Band 7 Uplink: 2500MHz-2570MHz, Downlink: 2620MHz-2690MHz BT(1Mbps)/BLE: GFSK Modulation Type: BT EDR(2Mbps): π /4-DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) GSM/GPRS/EGPRS: GMSK WCDMA: QPSK LTE FDD: QPSK,16QAM **Power Source** DC Voltage: DC 3.8V from Battery or DC 5V from USB Port. Model: Polaroid Input:100~240V 50~60Hz 0.2A Adapter Output:5V, 1A DC 3.8V, 1700mAh **Battery HW Version** M8402-006A SW Version Polaroid/FW451/v02/20170324

2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible 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 | Connect to PC |
| Mode 2 | TF card Play |
| Mode 3 | REC |
| Mode 4 | BT |
| Mode 5 | WIFI |
| Mode 6 | GSM/WCDMA |
| Mode 7 | LTE |

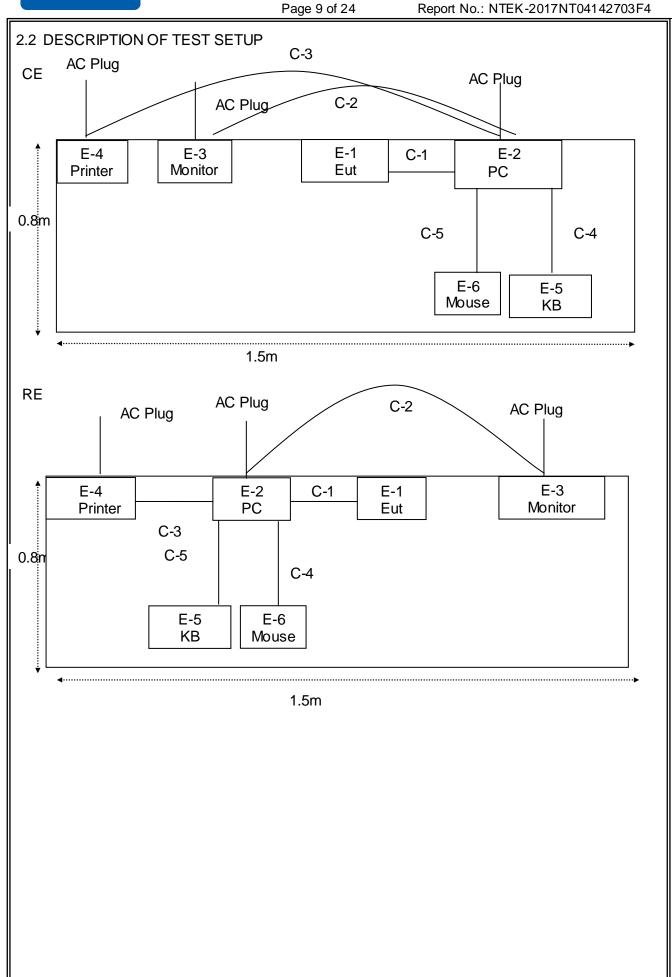
| For Conducted Test | | | | |
|-----------------------------|---------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 1 | Connect to PC | | | |
| Mode 2 | TF card Play | | | |
| Mode 3 | REC | | | |
| Mode 4 | BT | | | |
| Mode 5 | WIFI | | | |
| Mode 6 | GSM/WCDMA | | | |
| Mode 7 | LTE | | | |

| For Radiated Test | | | | |
|-----------------------------|---------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 1 | Connect to PC | | | |
| Mode 2 | TF card Play | | | |
| Mode 3 | REC | | | |
| Mode 4 | BT | | | |
| Mode 5 | WIFI | | | |
| Mode 6 | GSM/WCDMA | | | |
| Mode 7 | LTE | | | |

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case. Only the worst case mode is recorded in the report.



NTEK





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 | Turbo E | P4526A | N/A | EUT |
| E-2 | Personal computer | DELL | FT4Y23X | 34413561645 | PC |
| E-3 | Monitor | SONY | KDL-24EX520 | N/A | |
| E-4 | Printer | Canon | L11121E | LBP2900 | Peripherals |
| E-5 | KB | DELL | SK-8185 | OY526KUS | |
| E-6 | Mouse | DELL | MS111-P | cn-011d3v-71581-11e-1th 7 | Peripherals |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length | Note |
|------|-------------|---------------|--------------|--------|------|
| C-1 | USB Cable | NO | NO | 1.5m | |
| C-2 | HDMI Cable | NO | NO | 1.0m | |
| C-3 | USB Cable | NO | NO | 1.5m | |
| C-4 | KB Cable | NO | NO | 1.2m | |
| C-5 | Mouse Cable | NO | NO | 1.2m | |
| | | | | | |
| | | | | | |
| | | | | | |

Note:

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



2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

| Item | Kind of | Manufacturer | Type No. | Serial No. | Last | Calibrated | Calibratio |
|------|-----------------------|--------------|-----------------|------------------|-------------|------------|------------|
| | Equipment | | | | calibration | until | n period |
| 1 | Spectrum Analyzer | Agilent | E4407B | MY4510804 0 | 2016.07.06 | 2017.07.05 | 1 year |
| 2 | Test Receiver | R&S | ESPI | 101318 | 2016.06.07 | 2017.06.06 | 1 year |
| 3 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2016.07.06 | 2017.07.05 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 620026441 6 | 2016.06.07 | 2017.06.06 | 1 year |
| 5 | Spectrum Analyzer | ADVANTEST | R3132 | 150900201 | 2016.06.07 | 2017.06.06 | 1 year |
| 6 | Horn Antenna | EM | EM-AH-101 80 | 2011071402 | 2016.07.06 | 2017.07.05 | 1 year |
| 7 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2016.07.06 | 2017.07.05 | 1 year |
| 8 | Amplifier | EM | EM-30180 | 060538 | 2016.07.06 | 2017.07.05 | 1 year |
| 9 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2016.06.08 | 2017.06.07 | 1 year |
| 10 | Power Meter | R&S | NRVS | 100696 | 2016.07.06 | 2017.07.05 | 1 year |
| 11 | Power Sensor | R&S | URV5-Z4 | 0395.1619. 05 | 2016.07.06 | 2017.07.05 | 1 year |
| 12 | Test Cable | N/A | R-01 | N/A | 2016.07.06 | 2017.07.05 | 1 year |
| 13 | Test Cable | N/A | R-02 | N/A | 2016.07.06 | 2017.07.05 | 1 year |

Conduction Test equipment

| Item | Kind of Equipment | Manufactu rer | Type No. | Serial No. | Last calibration | Calibrated until | Calibratio n period |
|------|--------------------------|------------------|----------|----------------|------------------|------------------|---------------------|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2016.06.06 | 2017.06.05 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2016.08.24 | 2017.08.23 | 1 year |
| 3 | LISN | EMCO | 3816/2 | 00042990 | 2016.08.24 | 2017.08.23 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 620026441 7 | 2016.06.07 | 2017.06.06 | 1 year |
| 5 | Passive Voltage Probe | R&S | ESH2-Z3 | 100196 | 2016.06.07 | 2017.06.06 | 1 year |
| 6 | Absorbing clamp | R&S | MOS-21 | 100423 | 2016.06.08 | 2017.06.07 | 1 year |
| 7 | Test Cable | N/A | C01 | N/A | 2016.06.08 | 2017.06.07 | 1 year |
| 8 | Test Cable | N/A | C02 | N/A | 2016.06.08 | 2017.06.07 | 1 year |
| 9 | Test Cable | N/A | C03 | N/A | 2016.06.08 | 2017.06.07 | 1 year |



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

| | Class A (dBuV) | | Class B (dBuV) | | |
|-----------------|----------------|---------|----------------|-----------|--|
| FREQUENCY (MHz) | 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

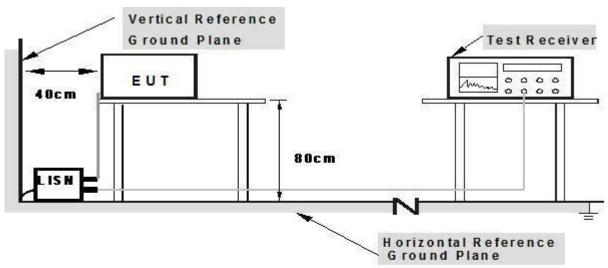
| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |



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 LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 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.



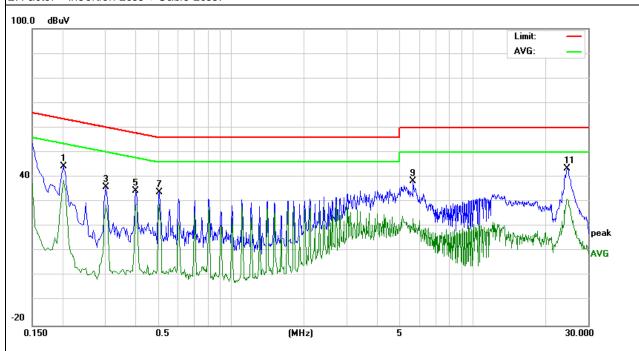
3.1.5 TEST RESULTS

| EUT: | Smart phone | Model Name.: | P4526A | |
|---------------|---------------------------|--------------------|-----------|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | |
| Pressure: | 1010hPa | Test Date: | 2017-4-14 | |
| Test Mode: | Mode 1 | Phase : | L | |
| Test Voltage: | DC 5V from PC AC120V/60Hz | | | |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.2020 | 44.13 | 0.13 | 44.26 | 63.52 | -19.26 | QP |
| 0.2020 | 38.63 | 0.13 | 38.76 | 53.52 | -14.76 | AVG |
| 0.3020 | 35.83 | 0.12 | 35.95 | 60.19 | -24.24 | QP |
| 0.3020 | 28.65 | 0.12 | 28.77 | 50.19 | -21.42 | AVG |
| 0.4020 | 34.40 | 0.15 | 34.55 | 57.81 | -23.26 | QP |
| 0.4020 | 28.97 | 0.15 | 29.12 | 47.81 | -18.69 | AVG |
| 0.5060 | 33.79 | 0.14 | 33.93 | 56.00 | -22.07 | QP |
| 0.5060 | 30.94 | 0.14 | 31.08 | 46.00 | -14.92 | AVG |
| 5.6539 | 38.17 | 0.25 | 38.42 | 60.00 | -21.58 | QP |
| 5.6539 | 28.92 | 0.25 | 29.17 | 50.00 | -20.83 | AVG |
| 24.5900 | 42.91 | 0.40 | 43.31 | 60.00 | -16.69 | QP |
| 24.5900 | 23.74 | 0.40 | 24.14 | 50.00 | -25.86 | AVG |

Remark:

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



Phase:



EUT:

Temperature:

Pressure:

Test Mode:

| Model Name.: | P4526A |
|--------------------|-----------|
| Relative Humidity: | 54% |
| Test Date: | 2017-4-14 |

Ν

Report No.: NTEK-2017NT04142703F4

Test Voltage: DC 5V from PC AC120V/60Hz

Smart phone

26 ℃

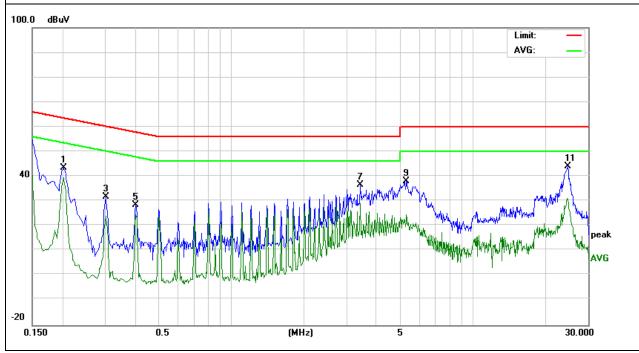
1010hPa

Mode 1

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.2020 | 43.34 | 0.13 | 43.47 | 63.52 | -20.05 | QP |
| 0.2020 | 28.97 | 0.13 | 29.10 | 53.52 | -24.42 | AVG |
| 0.3020 | 31.66 | 0.12 | 31.78 | 60.19 | -28.41 | QP |
| 0.3020 | 24.31 | 0.12 | 24.43 | 50.19 | -25.76 | AVG |
| 0.4020 | 28.42 | 0.15 | 28.57 | 57.81 | -29.24 | QP |
| 0.4020 | 30.96 | 0.15 | 31.11 | 47.81 | -16.70 | AVG |
| 3.4220 | 36.32 | 0.21 | 36.53 | 56.00 | -19.47 | QP |
| 3.4220 | 24.39 | 0.21 | 24.60 | 46.00 | -21.40 | AVG |
| 5.3299 | 37.71 | 0.24 | 37.95 | 60.00 | -22.05 | QP |
| 5.3299 | 23.60 | 0.24 | 23.84 | 50.00 | -26.16 | AVG |
| 24.6700 | 43.57 | 0.40 | 43.97 | 60.00 | -16.03 | QP |
| 24.6700 | 39.18 | 0.40 | 39.58 | 50.00 | -10.42 | AVG |

Remark:

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





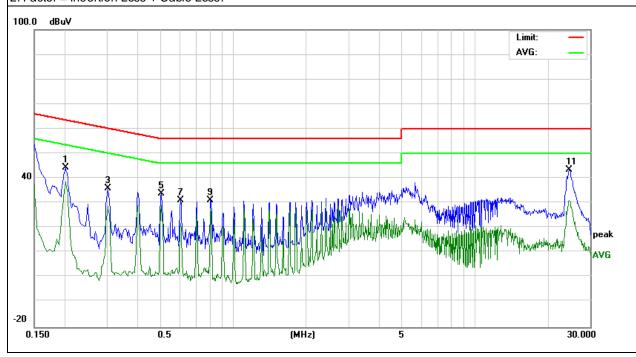
| EUT: | Smart phone | Model Name.: | P4526A | |
|---------------|---------------------------|--------------------|-----------|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | |
| Pressure: | 1010hPa | Test Date: | 2017-4-14 | |
| Test Mode: | Mode 1 Phase : L | | | |
| Test Voltage: | DC 5V from PC AC240V/60Hz | | | |

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| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Nemaik |
| 0.2020 | 44.13 | 0.13 | 44.26 | 63.52 | -19.26 | QP |
| 0.2020 | 38.63 | 0.13 | 38.76 | 53.52 | -14.76 | AVG |
| 0.3020 | 35.83 | 0.12 | 35.95 | 60.19 | -24.24 | QP |
| 0.3020 | 28.65 | 0.12 | 28.77 | 50.19 | -21.42 | AVG |
| 0.5060 | 33.79 | 0.14 | 33.93 | 56.00 | -22.07 | QP |
| 0.5060 | 29.03 | 0.14 | 29.17 | 46.00 | -16.83 | AVG |
| 0.6060 | 31.03 | 0.17 | 31.20 | 56.00 | -24.80 | QP |
| 0.6060 | 28.95 | 0.17 | 29.12 | 46.00 | -16.88 | AVG |
| 0.8060 | 31.03 | 0.20 | 31.23 | 56.00 | -24.77 | QP |
| 0.8060 | 25.54 | 0.20 | 25.74 | 46.00 | -20.26 | AVG |
| 24.5900 | 42.91 | 0.40 | 43.31 | 60.00 | -16.69 | QP |
| 24.5900 | 22.15 | 0.40 | 22.55 | 50.00 | -27.45 | AVG |

Remark:

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



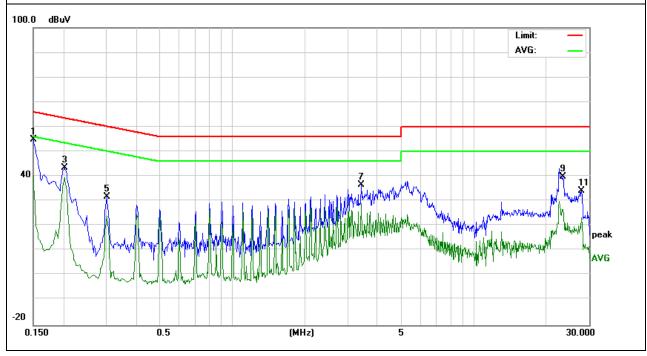


| EUT: | Smart phone | Model Name.: | P4526A | |
|---------------|---------------------------|--------------------|-----------|--|
| Temperature: | 26 ℃ | Relative Humidity: | 54% | |
| Pressure: | 1010hPa | Test Date: | 2017-4-14 | |
| Test Mode: | Mode 1 | Phase : | N | |
| Test Voltage: | DC 5V from PC AC240V/60Hz | | | |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------|--------|--------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Nemark |
| 0.1499 | 54.55 | 0.16 | 54.71 | 66.00 | -11.29 | QP |
| 0.1499 | 27.61 | 0.16 | 27.77 | 56.00 | -28.23 | AVG |
| 0.2020 | 43.34 | 0.13 | 43.47 | 63.52 | -20.05 | QP |
| 0.2020 | 39.45 | 0.13 | 39.58 | 53.52 | -13.94 | AVG |
| 0.3020 | 31.66 | 0.12 | 31.78 | 60.19 | -28.41 | QP |
| 0.3020 | 23.72 | 0.12 | 23.84 | 50.19 | -26.35 | AVG |
| 3.4220 | 36.32 | 0.21 | 36.53 | 56.00 | -19.47 | QP |
| 3.4220 | 24.39 | 0.21 | 24.60 | 46.00 | -21.40 | AVG |
| 23.3420 | 39.61 | 0.39 | 40.00 | 60.00 | -20.00 | QP |
| 23.3420 | 28.71 | 0.39 | 29.10 | 50.00 | -20.90 | AVG |
| 27.8700 | 33.87 | 0.43 | 34.30 | 60.00 | -25.70 | QP |
| 27.8700 | 29.63 | 0.43 | 30.06 | 50.00 | -19.94 | AVG |

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT



3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

| | Class A (at 10m) | Class B (at 3m) | |
|-----------------|------------------|-----------------|--|
| FREQUENCY (MHz) | 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 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 adjustmen 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 wors case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

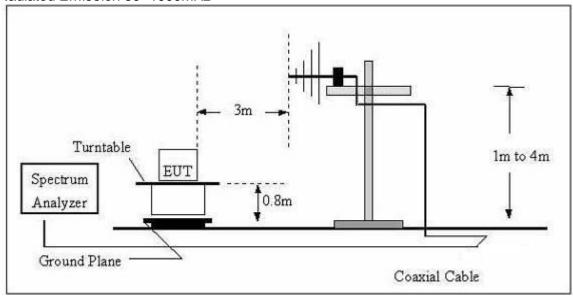


| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth | |
|-------------------------|---------------|----------------------|-----------------|--|
| 30 to 1000 | 30 to 1000 QP | | 300 kHz | |
| | Peak | 1 MHz | 1 MHz | |
| Above 1000 | Avg | 1 MHz | 10 Hz | |

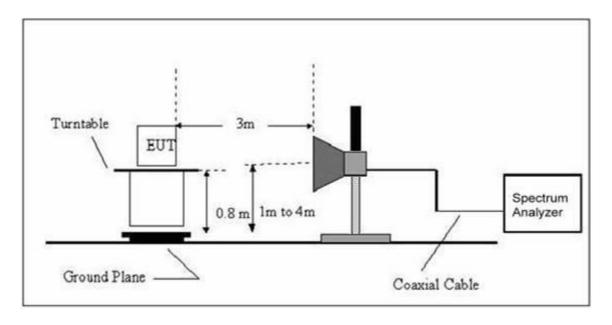
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3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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



3.2.4 TEST RESULTS TEST RESULTS (30~1000 MHz)





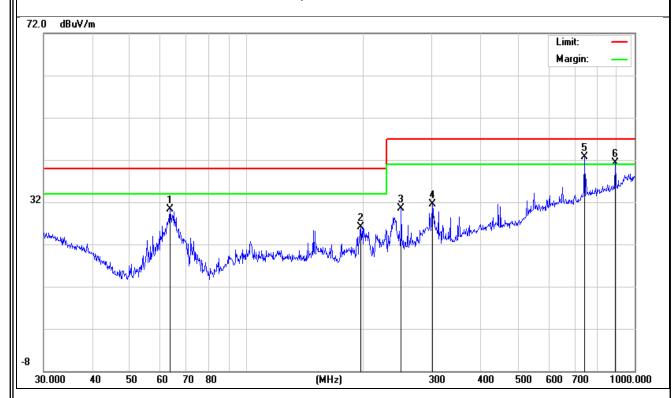
EUT: P4526A Smart phone Model Name: Temperature: Relative Humidity: 54% 24 ℃ 1010 hPa Test Date: 2017-4-14 Pressure: Test Mode: Mode 1 Polarization: Horizontal Test Power: DC 5V from PC AC120V/60Hz

Report No.: NTEK-2017NT04142703F4

| Polar (H/V) H H H H | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|------------------------------------|-----------|------------------|--------|-------------------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| Н | 63.5356 | 23.87 | 6.35 | 30.22 | 40.00 | -9.78 | QP |
| Н | 197.2000 | 15.83 | 10.32 | 26.15 | 40.00 | -13.85 | QP |
| Н | 250.3011 | 15.10 | 15.34 | 30.44 | 47.00 | -16.56 | QP |
| Н | 301.4224 | 15.17 | 16.32 | 31.49 | 47.00 | -15.51 | QP |
| Н | 742.2587 | 15.37 | 27.34 | 42.71 | 47.00 | -4.29 | QP |
| Н | 890.7278 | 11.89 | 29.32 | 41.21 | 47.00 | -5.79 | QP |

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.







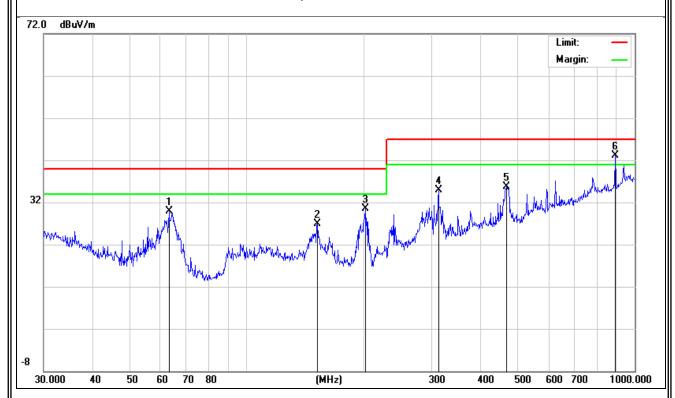
EUT: P4526A Smart phone Model Name: Temperature: Relative Humidity: 54% 24 ℃ 1010 hPa 2017-4-14 Pressure: Test Date: Test Mode: Polarization: Vertical Mode 1 Test Power: DC 5V from PC AC120V/60Hz

Report No.: NTEK-2017NT04142703F4

| Polar | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|-------|-----------|------------------|--------|-------------------|----------|--------|--------|
| (H/V) | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 63.0916 | 23.60 | 6.35 | 29.95 | 40.00 | -10.05 | QP |
| V | 152.1297 | 14.05 | 12.88 | 26.93 | 40.00 | -13.07 | QP |
| V | 202.1005 | 20.06 | 10.46 | 30.52 | 40.00 | -9.48 | QP |
| V | 312.1794 | 18.20 | 16.65 | 34.85 | 47.00 | -12.15 | QP |
| V | 467.2349 | 14.65 | 21.06 | 35.71 | 47.00 | -11.29 | QP |
| V | 890.7278 | 13.84 | 29.32 | 43.16 | 47.00 | -3.84 | QP |

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~6000MHz)

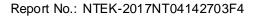
| EUT: | Smart phone | Model Name : | P4526A |
|--------------|---------------------------|--------------------|-----------|
| Temperature: | 24 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Test Date : | 2017-4-14 |
| Test Mode: | Mode 1 | | |
| Test Power: | DC 5V from PC AC120V/60Hz | | |

All the modulation modes have been tested, and the worst result was report as below:

| Polar (H/V) | Frequenc y | Reading | Correc t | Result | Limit | Over Limit | Remark |
|----------------|---------------|----------|-------------|----------|----------|---------------|--------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 2566.30 | 43.23 | -9.18 | 34.05 | 74.00 | -39.95 | Pk |
| V | 2566.30 | 36.23 | -9.18 | 27.05 | 54.00 | -26.95 | AV |
| V | 2930.16 | 45.40 | -8.60 | 36.80 | 74.00 | -37.20 | Pk |
| V | 2930.16 | 37.51 | -8.60 | 28.91 | 54.00 | -25.09 | AV |
| V | 4192.96 | 38.96 | -2.29 | 36.67 | 74.00 | -37.33 | Pk |
| V | 4192.96 | 29.85 | -2.29 | 27.56 | 54.00 | -26.44 | AV |
| Н | 2296.48 | 47.56 | -10.01 | 37.55 | 74.00 | -36.45 | Pk |
| Н | 2296.48 | 39.64 | -10.01 | 29.63 | 54.00 | -24.37 | AV |
| Н | 3966.42 | 40.35 | -2.76 | 37.59 | 74.00 | -36.41 | Pk |
| Н | 3966.42 | 32.58 | -2.76 | 29.82 | 54.00 | -24.18 | AV |
| Н | 5585.03 | 37.35 | 1.12 | 38.47 | 74.00 | -35.53 | Pk |
| Н | 5585.03 | 28.56 | 1.12 | 29.68 | 54.00 | -24.32 | AV |

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit Note: Only the worst results data points are reported in the report.





4. EUT TEST PHOTO







