

Nokia Corporation

Application For Certification

FCC ID: LJPDT-900

Nokia Wireless Charger Plate DT-900

Model: DT-900 (Build No.: B4.2; MV: V0.6; HW: V0.8; SW: 2.3.1.5219)

Transmitter

Report No.: SZ12070264-2

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-11]

| Prepared and Checked by: | Approved by: |
|--------------------------|--|
| | |
| Sign on file | |
| Leo Lai Engineer | Billy Li Supervisor Date: 29 September, 2012 |

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF No.: FCC 15C_TX_b

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TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

MEASUREMENT / TECHNICAL REPORT

Nokia Corporation MODEL: DT-900 (Build No.: B4.2; MV: V0.6; HW: V0.8; SW: 2.3.1.5219) FCC ID: LJPDT-900

25 August, 2012

| This report concerns (check one:) | Original Grant X Class II Change | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Equipment Type: DCD-Low Power Transmitter Below 1705 KHz | | | | | | | | |
| Deferred grant requested per 47 CFR 0.4 | 457(d)(1)(ii)? Yes NoX | | | | | | | |
| | If yes, defer until:date | | | | | | | |
| Company Name agrees to notify the Com | nmission by: | | | | | | | |
| , , , | date | | | | | | | |
| of the intended date of announcement o that date. | f the product so that the grant can be issued on | | | | | | | |
| Transition Rules Request per 15.37? | Yes NoX | | | | | | | |
| If no, assumed Part 15, Subpart C for i Edition] provision. | ntentional radiator – the new 47 CFR [10-01-11 | | | | | | | |
| Report prepared by: | | | | | | | | |
| | Billy Li Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch 6F, D Block, Huahan Building, Langshan Road Nanshan District, Shenzhen, P. R. China Phone: (86 755) 8614 0645 Fax: (86 755) 8601 6751 | | | | | | | |

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

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| Exhibit Type | File Description | Filename |
|-----------------------|----------------------------|----------------------|
| Test Report | Test Report | report.pdf |
| Test Setup Photo | Radiated photos | radiated photos.pdf |
| Test Setup Photo | Conducted photos | conducted photos.pdf |
| External Photo | External Photos | external photos.pdf |
| Internal Photo | Internal Photos | internal photos.pdf |
| Schematics | Circuit Diagram | circuit.pdf |
| Operation Description | Technical Description | descri.pdf |
| Block Diagram | Block Diagram | block.pdf |
| ID Label / Location | Label Artwork and Location | label.pdf |
| User Manual | User Manual | manual.pdf |
| Cover Letter | Letter of Agency | agency.pdf |
| Cover Letter | Letter of Agreement | agreement.pdf |

TRF No.: FCC 15C_TX_b
FCC ID: LJPDT-900

EXHIBIT 1 GENERAL DESCRIPTION

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

1.0 **General Description**

1.1 Product Description

The equipment under test (EUT) is a Nokia Wireless Charger Plate DT-900 operating at the frequency range 115 KHz-205 KHz for mobile phone. The EUT is powered by AC-301C adapter with Input: A.C. 100-240V, 50/60Hz, 0.3A; Output: D.C. 12V, 0.75A. The EUT enables an easy and comfortable charging operation of mobile device without any connector plugging.

Antenna Type: Coil antenna

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

This is an application for certification of a transmitter for the Nokia Wireless Charger Plate DT-900 which is for mobile device charger, and there is no corresponding unit for certification.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). Radiated emission measurement was performed in Semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "Justification Section" of this Application.

1.4 Test Facility

The Semi-anechoic chamber and shielding room used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: 242492).

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EXHIBIT 2 SYSTEM TEST CONFIGURATION

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

2.0 **System Test Configuration**

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2009).

The EUT was powered by AC 120V/60Hz during the test and only the worst data was reported in this report.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Exhibit 3.0.

The rear of unit shall be flushed with the rear of the table.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

N/A

2.3 Special Accessories

No special accessories used.

2.4 Equipment Modification

Any modifications installed previous to testing by Nokia Corporation will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

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2.5 Measurement Uncertainty

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

2.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

| Description | Manufacturer | Model No. |
|-------------------|--------------|-----------|
| Mobile Phone | NOKIA | N8 |
| Cable | NOKIA | CA-211 |
| AC Charger | NOKIA | AC-301C |
| Sleeve (Receiver) | N/A | N/A |

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 3

EMISSION RESULTS

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

3.0 **Emission Results**

Data is included worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

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3.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

$$FS = RA + AF + CF - AG + PD + AV$$

where FS = Field Strength in $dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in $dB\mu V$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Example

Assume a receiver reading of $62.0dB_{\mu}V$ is obtained. The antenna factor of 7.4dB and cable factor of 1.6dB is added. The amplifier gain of 29dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0dB, and the resultant average factor was -10dB. The net field strength for comparison to the appropriate emission limit is $32dB_{\mu}V/m$. This value in $dB_{\mu}V/m$ was converted to its corresponding level in $\mu V/m$.

 $RA = 62.0 dB\mu V$

AF = 7.4dB

CF = 1.6dB

AG = 29.0dB

PD = 0dB

AV = -10dB

 $FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32dB\mu V/m$

Level in μ V/m = Common Antilogarithm [(32dB μ V/m)/20] = 39.8 μ V/m

TRF No.: FCC 15C_TX_b

FCC ID: LJPDT-900

3.2 Radiated Emission Data and Configuration Photograph

Worst Case Radiated Emission at 31.925 MHz

Judgement: Passed by 12.1 dB

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos.pdf.

TEST PERSONNEL:

Sign on file

Leo Lai Engineer
Typed/Printed Name

25 August, 2012 Date

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

Company: Nokia Corporation Date of Test: 25 August, 2012

Model: DT-900 (Build No.: B4.2; MV: V0.6; HW: V0.8; SW: 2.3.1.5219)

Worst Operating Mode: Transmit with Charging

Radiated Emissions

| Polarization | Frequency | Reading | Pre- | Antenna | Net | Limit | Margin |
|--------------|-----------|---------|------|---------|----------|----------|-------------------|
| | (MHz) | (dBµV) | Amp | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (dBµV/m) | (dBµV/m) | , , |
| | | | (dB) | | | | |
| Vertical | 0.160 | 56.5 | 0.0 | 14.2 | 70.7 | 103.5 | -32.8 |
| Vertical | 0.320 | 35.1 | 0.0 | 14.5 | 49.6 | 97.5 | -4 7.9 |
| Vertical | 0.480 | 35.4 | 0.0 | 14.7 | 50.1 | 94.0 | -4 3.9 |
| Vertical | 0.640 | 34.9 | 0.0 | 15.0 | 49.9 | 71.5 | -21.6 |
| Horizontal | 30.020 | 24.2 | 20.0 | 19.0 | 23.2 | 40.0 | -16.8 |
| Horizontal | 69.911 | 41.4 | 20.0 | 5.1 | 26.5 | 40.0 | -13.5 |
| Horizontal | 123.120 | 32.0 | 20.0 | 7.1 | 19.1 | 43.5 | -24.4 |
| Vertical | 31.925 | 30.4 | 20.0 | 17.5 | 27.9 | 40.0 | -12.1 |
| Vertical | 71.710 | 39.6 | 20.0 | 5.2 | 24.8 | 40.0 | -15.2 |
| Vertical | 108.085 | 29.2 | 20.0 | 8.1 | 17.3 | 43.5 | -26.2 |

NOTES: 1. Peak detector is used for 9–90 KHz, 110–490 KHz and Quasi-Peak detector is used for other frequency band.

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3 meter distances were measured at 0.3- meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Loop Antenna was used for the frequency range below 30MHz.
- 5. The formula of limit at frequencies below 30 MHz is extrapolated according to FCC part 15.31 (f) as below.

 Limit dBuV/m at 3m = Limit dBuV/m at 300m + 40log(300/3) dB

 Limit dBuV/m at 3m = Limit dBuV/m at 30m + 40log(30/3) dB

Test Engineer: Leo Lai

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

Company: Nokia Corporation Date of Test: 25 August, 2012

Model: DT-900 (Build No.: B4.2; MV: V0.6; HW: V0.8; SW: 2.3.1.5219) Worst Operating Mode: Transfer initiation & termination mode at 175KHz

Radiated Emissions

| Polarization | Frequency | Reading | Pre- | Antenna | Net | Limit | Margin |
|--------------|-----------|---------|------|---------|----------|----------|--------|
| | (MHz) | (dBµV) | Amp | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | | | |
| Vertical | 0.175 | 56.4 | 0.0 | 14.3 | 70.7 | 102.7 | -32.0 |
| Vertical | 0.350 | 34.7 | 0.0 | 14.6 | 49.3 | 96.7 | -47.4 |
| Vertical | 0.525 | 35.6 | 0.0 | 14.7 | 50.3 | 73.2 | -22.9 |
| Vertical | 0.700 | 33.4 | 0.0 | 15.2 | 48.6 | 70.7 | -22.1 |
| Horizontal | 31.940 | 26.3 | 20.0 | 17.5 | 23.8 | 40.0 | -16.2 |
| Horizontal | 106.145 | 33.5 | 20.0 | 8.3 | 21.8 | 43.5 | -21.7 |
| Horizontal | 121.180 | 36.1 | 20.0 | 7.0 | 23.1 | 43.5 | -20.4 |
| Vertical | 31.460 | 28.9 | 20.0 | 17.9 | 26.8 | 40.0 | -13.2 |
| Vertical | 69.770 | 36.5 | 20.0 | 5.1 | 21.6 | 40.0 | -18.4 |
| Vertical | 72.195 | 35.0 | 20.0 | 5.3 | 20.3 | 40.0 | -19.7 |

NOTES: 1. Peak detector is used for 9–90 KHz, 110–490 KHz and Quasi-Peak detector is used for other frequency band.

- 2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3 meter distances were measured at 0.3- meter and an inverse proportional extrapolation was performed to compare the signal level to the 3 meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
- 3. Negative value in the margin column shows emission below limit.
- 4. Loop Antenna was used for the frequency range below 30MHz.
- 5. The formula of limit at frequencies below 30 MHz is extrapolated according to FCC part 15.31 (f) as below.

 Limit dBuV/m at 3m = Limit dBuV/m at 300m + 40log(300/3) dB

 Limit dBuV/m at 3m = Limit dBuV/m at 30m + 40log(30/3) dB

Test Engineer: Leo Lai

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

3.3 Conducted Emission Data and Configuration Photograph

Worst Case Live-Conducted Configuration at 8.208 MHz

Judgement: Passed by 5.9 dB margin

For electronic filing, the worst case conducted emission configuration photograph is saved with filename: conducted photos.pdf.

TEST PERSONNEL:

Sign on file

Leo Lai Engineer
Typed/Printed Name

25 August, 2012 Date

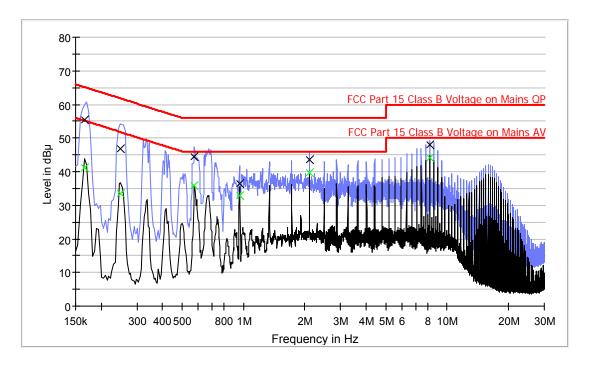
TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

Company: Nokia Corporation Date of Test: 25 August, 2012

Model: DT-900 (Build No.: B4.2; MV: V0.6; HW: V0.8; SW: 2.3.1.5219)

Worst Operating Mode: Transmit with Charging

Conducted Emission Test - FCC



Result Table QP

| Frequency (MHz) | QuasiPeak (dB µ V) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|-----------------------|------|---------------|----------------|-------------------|
| 0.166000 | 55.3 | L1 | 9.6 | 9.9 | 65.2 |
| 0.250000 | 46.9 | L1 | 9.6 | 14.9 | 61.8 |
| 0.574000 | 44.5 | L1 | 9.6 | 11.5 | 56.0 |
| 0.958000 | 36.5 | L1 | 9.7 | 19.5 | 56.0 |
| 2.101000 | 43.5 | L1 | 9.8 | 12.5 | 56.0 |
| 8.208000 | 47.9 | L1 | 9.9 | 12.1 | 60.0 |

Result Table AV

| Frequency | Average | Line | Corr. | Margin | Limit |
|-----------|----------|------|-------|--------|----------|
| (MHz) | (dB µ V) | | (dB) | (dB) | (dB µ V) |
| 0.166000 | 41.1 | L1 | 9.6 | 14.1 | 55.2 |
| 0.250000 | 33.5 | L1 | 9.6 | 18.3 | 51.8 |
| 0.574000 | 35.8 | L1 | 9.6 | 10.2 | 46.0 |
| 0.958000 | 32.9 | L1 | 9.7 | 13.1 | 46.0 |
| 2.101000 | 39.7 | L1 | 9.8 | 6.3 | 46.0 |
| 8.208000 | 44.1 | L1 | 9.9 | 5.9 | 50.0 |

Test Engineer: Leo Lai

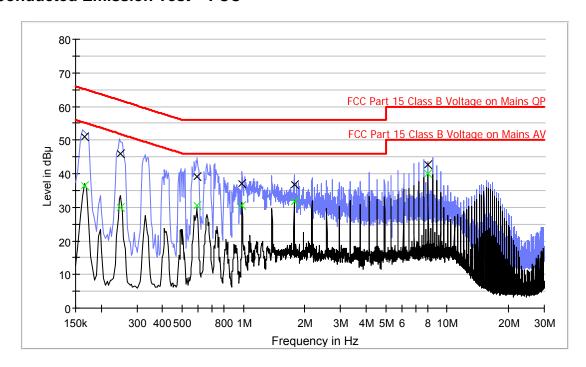
TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

Company: Nokia Corporation Date of Test: 25 August, 2012

Model: DT-900 (Build No.: B4.2; MV: V0.6; HW: V0.8; SW: 2.3.1.5219)

Worst Operating Mode: Transmit with Charging

Conducted Emission Test - FCC



Result Table QP

| Frequency | QuasiPeak | Line | Corr. | Margin | Limit |
|-----------|--------------|------|-------|--------|----------|
| (MHz) | (dB μ V) | | (dB) | (dB) | (dB µ V) |
| 0.166000 | 51.0 | N | 9.6 | 14.2 | 65.2 |
| 0.250000 | 46.0 | N | 9.6 | 15.8 | 61.8 |
| 0.590000 | 39.1 | N | 9.6 | 16.9 | 56.0 |
| 0.986000 | 37.0 | N | 9.7 | 19.0 | 56.0 |
| 1.774000 | 36.9 | N | 9.8 | 19.1 | 56.0 |
| 8.077000 | 42.6 | N | 10.0 | 17.4 | 60.0 |

Result Table AV

| Frequency | Average | Line | Corr. | Margin | Limit |
|-----------|----------|------|-------|--------|----------|
| (MHz) | (dB µ V) | | (dB) | (dB) | (dB µ V) |
| 0.166000 | 36.4 | N | 9.6 | 18.8 | 55.2 |
| 0.250000 | 30.0 | N | 9.6 | 21.8 | 51.8 |
| 0.590000 | 30.5 | N | 9.6 | 15.6 | 46.0 |
| 0.986000 | 30.5 | N | 9.7 | 15.5 | 46.0 |
| 1.774000 | 31.8 | N | 9.8 | 14.2 | 46.0 |
| 8.077000 | 39.9 | N | 10.0 | 10.1 | 50.0 |

Test Engineer: Leo Lai

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 4 EQUIPMENT PHOTOGRAPHS

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

4.0 **Equipment Photographs**

For electronic filing, photographs of the tested EUT are saved with filename: external photos.pdf and internal photos.pdf.

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 5 PRODUCT LABELLING

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

5.0 **Product Labelling**

For electronics filing, the FCC ID label artwork and the label location are saved with filename: label.pdf.

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 6

TECHNICAL SPECIFICATIONS

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

6.0 <u>Technical Specifications</u>

For electronic filing, the block diagram of the tested EUT is saved with filename: block.pdf and circuit.pdf respectively.

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 7 INSTRUCTION MANUAL

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

7.0 <u>Instruction Manual</u>

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold / leased in the United States.

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 8

MISCELLANEOUS INFORMATION

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

8.0 <u>Miscellaneous Information</u>

This miscellaneous information includes emission measuring procedure.

8.1 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitter operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 – 2009.

The Transmitter equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjust through all three orthogonal axes to obtain maximum emission levels. For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed.

The IF bandwidth used for measurement of radiated signal strength was 10 KHz for emission below 30 MHz and 120 KHz for emission from 30 MHz to 1000 MHz.

For radiated emission, the frequency range scanned is 9KHz to 1GHz. For line-conducted emissions, the range scanned is 150KHz to 30MHz.

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

EXHIBIT 9

TEST EQUIPMENT LIST

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900

9.0 Test Equipment List

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|---------------|------------------------|-----------------|-----------------|------------|-----------|-----------|
| SZ061-03 | BiConiLog Antenna | ETS | 3142C | 00066460 | 30-Jun-12 | 30-Jun-13 |
| SZ185-01 | EMI Receiver | R&S | ESCI | 100547 | 11-Mar-12 | 11-Mar-13 |
| SZ061-06 | Loop Antenna | Electro-Metrics | EM-6876 | 217 | 11-Mar-12 | 11-Mar-13 |
| SZ188-01 | Anechoic Chamber | ETS | RFD-F/A- 100 | 4102 | 03-Mar-12 | 03-Mar-13 |
| SZ062-02 | RF Cable | RADIALL | RG 213U | | 17-Mar-12 | 17-Sep-12 |
| SZ185-02 | EMI Test Receiver | R&S | ESCI | 100692 | 05-Nov-11 | 05-Nov-12 |
| SZ187-01 | Two-Line V- Network | R&S | ENV216 | 100072 | 05-Nov-11 | 05-Nov-12 |
| SZ188-03 | Shielding Room | ETS | RFD-100 | 4100 | 16-Sep-10 | 16-Sep-13 |

TRF No.: FCC 15C_TX_b FCC ID: LJPDT-900