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TEST REPORT

Report No.: 17070378HKG-001R1

Echo Technologies Asia Ltd

Application For Certification (Original Grant)

FCC ID: 2ACRG-37612F24

Transceiver

This report supersedes previous report with report number 17070378HKG-001 dated August 24, 2017. Please refer TY-S18-0026 Letter issued on February 08, 2018 for the detail Amendment Summary.

PREPARED AND CHECKED BY: APPROVED BY:

Signed On File Lok Chi Hang, Wil Engineer

Koo Wai Ip Technical Supervisor Date: February 08, 2018

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GENERAL INFORMATION

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Manufacturer: Echo Technologies Asia Limited

Manufacturer Address: Putou Industrial Area, Huzhen Town,

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China

Brand Name: RC Sphere Cycle

Model: 37612

Type of EUT: Transceiver

Description of EUT: RC Sphere Cycle (Remote)

Serial Number: N/A

FCC ID: 2ACRG-37612F24

Date of Sample Submitted: July 06, 2017

Date of Test: July 06, 2017 to August 22, 2017

Report No.: 17070378HKG-001R1
Report Date: February 08, 2018

Environmental Conditions: Temperature: +10 to 40°C

Humidity: 10 to 90%



SUMMARY OF TEST RESULT

TEST SPECIFICATION	REFERENCE	RESULTS
Radiated Emission Radiated Emission on the Bandedge	15.249, 15.209	Pass
Radiated Emission in Restricted Bands	15.205	Pass

The equipment under test is found to be complying with the following standards: FCC Part 15, October 1, 2015 Edition

Note: 1. The EUT uses a permanently attached antenna which, in accordance to section 15.203, is considered sufficient to comply with the pervisions of this section.

2. Pursuant to FCC part 15 Section 15.215(c), the 20 dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over excepted variations in temperature and supply voltage were considered.



TABLE OF CONTENTS

1.0	GENERAL DESCRIPTION	5
1.1	Product Description	5
1.2	Related Submittal(s) Grants	5
1.3	Test Methodology	5
1.4	Test Facility	5
2.0	SYSTEM TEST CONFIGURATION	6
2.1	Justification	6
2.2	EUT Exercising Software	6
2.3	Special Accessories	6
2.4	Measurement Uncertainty	6
2.5	Support Equipment List and Description	6
3.0	EMISSION RESULTS	7
3.1	Field Strength Calculation	7
3.2	Radiated Emission Configuration Photograph	8
3.3	Radiated Emission Data	8
4.0	EQUIPMENT PHOTOGRAPHS	13
5.0	PRODUCT LABELLING	13
6.0	TECHNICAL SPECIFICATIONS	13
7.0	INSTRUCTION MANUAL	13
8.0	MISCELLANEOUS INFORMATION	14
8.1	Radiated Emission on the Bandedge	14
8.2	Discussion of Pulse Desensitization	
8.3	Calculation of Average Factor	15
8.4	Emissions Test Procedures	17
9.0	EQUIPMENT LIST	20



1.0 GENERAL DESCRIPTION

1.1 Product Description

The Equipment Under Test (EUT) is a 2.4GHz Pure Transmitter Controller for RC car operated at 2405-2475MHz with 1MHz Channel Spacing. The EUT is powered by 1 X 9.0V Alkaline battery. After switch on the EUT and paired with RC Car, the RC Car can be controlled to move forward, backward, turn right/left by the controller.

Antenna Type: Internal, Integral

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

1.2 Related Submittal(s) Grants

This is a single application for certification of a transceiver.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). All radiated measurements were performed in an 3m Chamber. Preliminary scans were performed in the 3m Chamber only to determine 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 3m Chamber facility used to collect the radiated data is located at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been placed on file with the FCC.



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 C63.10 (2013).

The device was powered by new 1 x 9.0V Alkaline battery.

For maximizing emissions, 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 reported in Exhibit 3.0.

The unit was operated standalone and placed in the center of the turntable.

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

2.2 EUT Exercising Software

There was no special software to exercise the device. Once the unit is powered up, it transmits the RF signal continuously.

2.3 Special Accessories

There are no special accessories necessary for compliance of this product.

2.4 Measurement Uncertainty

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

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

2.5 Support Equipment List and Description

N/A.



3.0 **EMISSION RESULTS**

Data is included of the 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.

3.1 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG - AV

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

RA = Receiver Amplitude (including preamplifier) in dBμV

CF = Cable Attenuation Factor in dB

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

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

FS = RR + LF

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

 $RR = RA - AG - AV in dB\mu V$

LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

 $RA = 52.0 \, dB\mu V/m$

 $AF = 7.4 \; dB \hspace{1cm} RR = 18.0 \; dB \mu V \\ CF = 1.6 \; dB \hspace{1cm} LF = 9.0 \; dB \label{eq:equation:equation}$

AG = 29.0 dB AV = 5.0 dBFS = RR + LF

 $FS = 18 + 9 = 27 \, dB\mu V/m$

Level in $\mu V/m = Common Antilogarithm [(27 dB<math>\mu V/m)/20] = 22.4 \mu V/m$



3.2 Radiated Emission Configuration Photograph

The worst case in radiated emission was found at 2483.5 MHz

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

3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgment: Passed by 2.2 dB



RADIATED EMISSIONS

Model: 37612

Date of Test: August 22, 2017

Worst-Case Operating Mode: Transmitting

Table 1 **Pursuant to FCC Part 15 Section 15.249 Requirement**

Lowest Channel

			Pre-Amp	Antenna	Net at	Average	Calculated	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	Factor	at 3m	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2405.000	96.9	33	29.4	93.3	19.7	73.6	94.0	-20.4
Н	2400.000	70.8	33	29.4	67.2	19.7	47.5	54.0	-6.5
Н	4810.000	49.6	33	34.9	51.5	19.7	31.8	54.0	-22.2
V	7215.000	57.5	33	37.9	62.4	19.7	42.7	54.0	-11.3
V	9620.000	43.6	33	40.4	51.0	19.7	31.3	54.0	-22.7
V	12025.000	36.9	33	40.5	44.4	19.7	24.7	54.0	-29.3
Н	14430.000	36.6	33	40.0	43.6	19.7	23.9	54.0	-30.1

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2405.000	96.9	33	29.4	93.3	114.0	-20.7
Н	2400.000	70.8	33	29.4	67.2	74.0	-6.8
Н	4810.000	49.6	33	34.9	51.5	74.0	-22.5
V	7215.000	57.5	33	37.9	62.4	74.0	-11.6
V	9620.000	43.6	33	40.4	51.0	74.0	-23.0
V	12025.000	36.9	33	40.5	44.4	74.0	-29.6
Н	14430.000	36.6	33	40.0	43.6	74.0	-30.4

- 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 sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



Model: 37612

Date of Test: August 22, 2017

Worst-Case Operating Mode: Transmitting

Table 2 Pursuant to FCC Part 15 Section 15.249 Requirement

Middle Channel

			Pre-Amp	Antenna	Net at	Average	Calculated	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	Factor	at 3m	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2440.000	97.2	33	29.4	93.6	19.7	73.9	94.0	-20.1
Н	4880.000	49.5	33	34.9	51.4	19.7	31.7	54.0	-22.3
V	7320.000	57.3	33	37.9	62.2	19.7	42.5	54.0	-11.5
V	9760.000	43.7	33	40.4	51.1	19.7	31.4	54.0	-22.6
V	12200.000	37.0	33	40.5	44.5	19.7	24.8	54.0	-29.2
Н	14640.000	38.3	33	38.4	43.7	19.7	24.0	54.0	-30.0

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2440.000	97.2	33	29.4	93.6	114.0	-20.4
Н	4880.000	49.5	33	34.9	51.4	74.0	-22.6
V	7320.000	57.3	33	37.9	62.2	74.0	-11.8
V	9760.000	43.7	33	40.4	51.1	74.0	-22.9
V	12200.000	37.0	33	40.5	44.5	74.0	-29.5
Н	14640.000	38.3	33	38.4	43.7	74.0	-30.3

- 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 sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



Model: 37612

Date of Test: August 22, 2017

Worst-Case Operating Mode: Transmitting

Table 3 **Pursuant to FCC Part 15 Section 15.249 Requirement**

Highest Channel

			Pre-Amp	Antenna	Net at	Average	Calculated	Average Limit	
Polari-	Frequency	Reading	Gain	Factor	3m - Peak	Factor	at 3m	at 3m	Margin
zation	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
Н	2475.000	97.2	33	29.4	93.6	19.7	73.9	94.0	-20.1
Н	2483.500	75.1	33	29.4	71.5	19.7	51.8	54.0	-2.2
Н	4950.000	49.1	33	34.9	51.0	19.7	31.3	54.0	-22.7
V	7425.000	57.9	33	37.9	62.8	19.7	43.1	54.0	-10.9
V	9900.000	44.0	33	40.4	51.4	19.7	31.7	54.0	-22.3
V	12375.000	36.6	33	40.5	44.1	19.7	24.4	54.0	-29.6
Н	14850.000	37.8	33	38.4	43.2	19.7	23.5	54.0	-30.5

			Pre-Amp	Antenna	Net at	Peak Limit	
Polari- zation	Frequency (MHz)	Reading (dBµV)	Gain (dB)	Factor (dB)	3m - Peak (dBµV/m)	at 3m (dBµV/m)	Margin (dB)
Н	2475.000	97.2	33	29.4	93.6	114.0	-20.4
Н	2483.500	75.1	33	29.4	71.5	74.0	-2.5
Н	4950.000	49.1	33	34.9	51.0	74.0	-23.0
V	7425.000	57.9	33	37.9	62.8	74.0	-11.2
V	9900.000	44.0	33	40.4	51.4	74.0	-22.6
V	12375.000	36.6	33	40.5	44.1	74.0	-29.9
Н	14850.000	37.8	33	38.4	43.2	74.0	-30.8

- 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 sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



Model: 37612

Date of Test: August 22, 2017

Worst-Case Operating Mode: Tx other

Table 4 **Pursuant to FCC Part 15 Section 15.209 Requirement**

	I		Dro	Antonno	Nlot	Linait	
			Pre-	Antenna	Net	Limit	
	Frequency	Reading	amp	Factor	at 3m	at 3m	Margin
Polarization	(MHz)	(dBµV)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
V	31.215	26.2	16	10.0	20.2	40.0	-19.8
V	112.993	26.4	16	14.0	24.4	43.5	-19.1
V	119.087	27.3	16	14.0	25.3	43.5	-18.2
V	131.640	25.3	16	14.0	23.3	43.5	-20.2
V	144.315	21.1	16	14.0	19.1	43.5	-24.4
V	682.637	19.9	16	29.0	32.9	46.0	-13.1
V	950.518	19.4	16	33.0	36.4	46.0	-9.6

- 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 sign in the column shows value below limit.
- 4. Horn antenna is used for the emission over 1000MHz.
- 5. Emission (the row indicated by **bold italic**) within the restricted band meets the requirement of FCC Part 15 Section 15.205.
- 6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.



4.0 **EQUIPMENT PHOTOGRAPHS**

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

5.0 **PRODUCT LABELLING**

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

6.0 **TECHNICAL SPECIFICATIONS**

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

7.0 **INSTRUCTION MANUAL**

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.



8.0 MISCELLANEOUS INFORMATION

The miscellaneous information includes details of the test procedure and measured bandwidth / calculation of factor such as pulse desensitization and averaging factor (calculation and timing diagram).

8.1 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz to 2483.5MHz). In case of the fundamental emissions are within two standard bandwidths from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.10 (2013) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50dB below the level of the fundamental or to the general radiated emissions limits in Section 15.209, whichever is the lesser attenuation, which meet the requirement of part 15.249(d).



Peak Measurement

The test data of bandedge emissions were shown on the above radiated emissions table 1 and table 3 respectively.

The resultant field strength meets the general radiated emission limit in Section 15.209,, which does not exceed 74 dB μ V/m (Peak Limit) but exceeded 54 dB μ V/m (Average Limit).

8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (Teff) is approximately 0.2ms for a digital "1" bit which illustrated on technical specification, with a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

8.3 Calculation of Average Factor

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 100ms

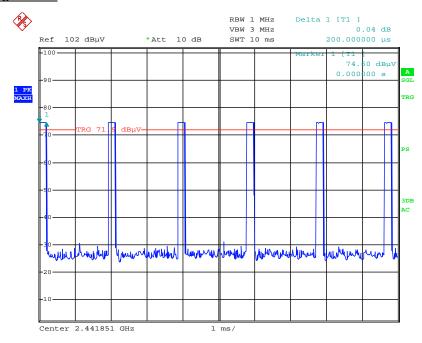
Effective period of the cycle = 0.2*52= 10.4ms

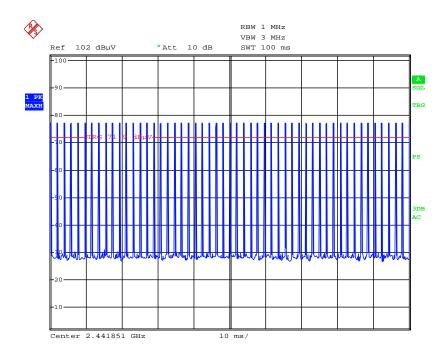
DC = 10.4/100 = 0.104

Therefore, the averaging factor is found by 20log 0.104 = -19.7dB.



Average Factor







8.4 Emissions Test Procedures

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

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. 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 adjusted through all three orthogonal axis to obtain maximum emission levels. The antenna height and polarization are also varied during the testing to search for maximum signal levels. The height of the antenna is varied from one to four meters.

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.



8.4 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements were made as described in ANSI C63.10 (2013).

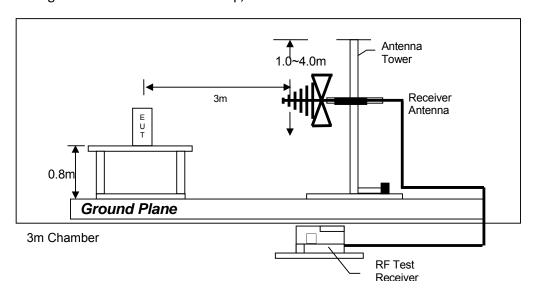
The IF bandwidth used for measurement of radiated signal strength was 100 kHz or greater when frequency is below 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.1). Above 1000 MHz, a resolution bandwidth of 3 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the forbidden bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, unless otherwise reported. Measurements taken at a closer distance are so marked.

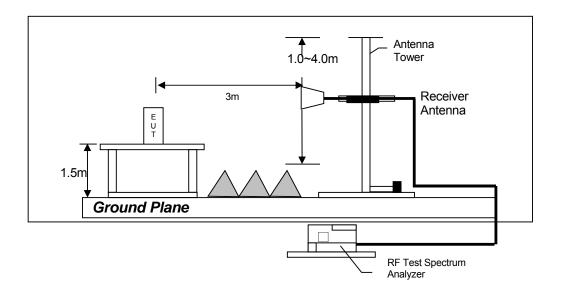


8.4.1 Radiated Emission Test Setup

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



Test setup of radiated emissions up to 1GHz



Test setup of radiated emissions above 1GHz



9.0 EQUIPMENT LIST

1) Radiated Emissions Test

Equipment	Spectrum Analyzer	Log Periodic Antenna	Solid State Low Noise Preamplifier Assembly (1 - 18)GHz
Registration No.	EW-3281	EW-0447	EW-3229
Manufacturer	ROHDESCHWARZ	EMCO	BONN ELEKTRO
Model No.	FSV40	3146	BLMA 0118-5G
Calibration Date	Dec. 19, 2016	May 18, 2016	Oct. 24, 2016
Calibration Due Date	Dec. 19, 2017	Nov 18, 2017	Oct. 24, 2017

Equipment	Biconical Antenna	EMI Test Receiver	Double Ridged Guide Antenna
Registration No.	EW-0571	EW-3156	EW-0194
Manufacturer	EMCO	ROHDESCHWARZ	EMCO
Model No.	3104C	ESR26	3115
Calibration Date	May. 18, 2016	Dec. 06. 2016	Aug. 10, 2016
Calibration Due Date	Nov. 18, 2017	Dec. 06, 2017	Feb. 10, 2018

Equipment	Active Loop H-field (9kHz to 30MHz)	RF Cable 9kHz to 1000MHz	RF Cable (up to 40GHz)
Registration No.	EW-2313	EW-3170	EW-3155
Manufacturer	ELECTROMETRI	N/A	N/A
Model No.	EM-6876	9kHz to 1000MHz	1-40 GHz
Calibration Date	May. 18, 2016	Mar. 20, 2017	Dec. 05, 2016
Calibration Due Date	Nov. 18, 2017	Mar. 20, 2018	Dec. 05, 2017

Equipment	RF Pre-amplifier 3 pcs (9kHz to 40GHz)
Registration No.	EW-3006
Manufacturer	SCHWARZBECK
Model No.	BBV 9744
Calibration Date	Mar. 23, 2017
Calibration Due Date	Mar. 23, 2018

2) Bandedge Measurement

Equipment	Spectrum Analyzer
Registration No.	EW-2329
Manufacturer	R&S
Model No.	FSP3
Calibration Date	Aug. 26, 2016
Calibration Due Date	Aug. 26, 2017

END OF TEST REPORT