

Zhejiang Fousine Science & Technology CO., LTD



SCOPE OF WORK FCC TESTING-190712-00

REPORT NUMBER

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Intertek Report No.: 180704072SZN-001

Zhejiang Fousine Science & Technology CO., LTD

Application For Certification

FCC ID: 2AKP3-190712-00

6.56FT 5V RGB Strip + RF Strip Controller

Model: 190712-00 Brand Name: MONSTER

2.4GHz Transceiver

Report No.: 180704072SZN-001

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 [10-1-17]

Prepared and Checked by:

Approved by:

Surel Guo Engineer *Kidd Yang Technical Supervisor Date: July 25, 2018*

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MEASUREMENT/TECHNICAL REPORT

Zhejiang Fousine Science & Technology CO., LTD

Model: 190712-00

FCC ID: 2AKP3-190712-00

This report concerns (chec	:k one:)	Original Grant <u></u>	<u>(</u> (Class II Ch	ange _	
Equipment Type: <u>DXX - Pa</u>	<u>art 15 Low Pc</u>	ower Communicat	tion Device	Transmitte	<u>۶r</u>	
Deferred grant requested p	per 47 CFR 0		Yes			X
Company Name agrees to of the intended date of and date.				date		on that
Transition Rules Request p If no, assumed Part 15, Edition] provision.		or intentional rac		e new 47		
Report prepared by:	1F/2F, Build Shangkeng District, She	ting Services She ing B, QiaoAn Sc Community, Guar nzhen, P.R. Chin 5-755-8601 6288/5	ientific Tecł nhu Subdist a	nnology Pa trict, Longh	ark,	



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Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Report	20dB BW Plot	bw.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf



EXHIBIT 1

GENERAL DESCRIPTION



1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a 6.56FT 5V RGB Strip + RF Strip Controller operating at 2410MHz. The EUT is powered by DC 5V from USB port. The USB port is only use for charging purpose. For more detail information pls. refer to the user manual.

Antenna Type: Integral antenna Modulation Type: GFSK Antenna Gain: 0dBi Max

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 transceiver for the 6.56FT 5V RGB Strip + RF Strip Controller portion, and related report for FCC SDOC is subjected to report number: 180705024SZN-001.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10: 2013. 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 semianechoic 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.

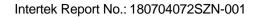
1.4 Test Facility

The Semi-anechoic chamber used to collect the radiated data and conducted data are **Intertek Testing Services Shenzhen Ltd. Longhua Branch** and located at 1F/2F, Building B, QiaoAn Scientific Technology Park, Shangkeng Community, Guanhu Subdistrict, Longhua District, Shenzhen, P.R. China. This test facility and site measurement data have been fully placed on file with the FCC (Registration Number: CN1188).



EXHIBIT 2

SYSTEM TEST CONFIGURATION





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 EUT was powered by USB port(DC 5V) through a Laptop with 120V/60Hz input during the test, 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 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.

The rear of unit was 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

The EUT exercise program (provided by client) used during testing was designed to exercise the various system components in a manner similar to a typical use.

2.3 Special Accessories

No special accessories used.

2.4 Equipment Modification

Any modifications installed previous to testing by Zhejiang Fousine Science & Technology CO., LTD Will be incorporated in each production model sold / leased in the United States.

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



2.5 Measurement Uncertainty

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

2.6 Support Equipment List and Description

Description	Manufacturer	Model No.
Laptop	HP	Compaq 2510p
USB disc	Wyvo	AS160M-D-G
USB cable	N/A	Unshielded length 1m



EXHIBIT 3

EMISSION RESULTS



Test Report

Intertek Report No.: 180704072SZN-001

3.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).



3.1 Radiated Test Results

A sample calculation, configuration photographs and data tables of the emissions are included.

3.1.1 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 dBAV = 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

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

RA = $62.0 \text{ dB}\mu\text{V}$ AF = 7.4 dB CF = 1.6 dB AG = 29.0 dB PD = 0 dB AV = -10 dB FS = $62 + 7.4 + 1.6 - 29 + 0 = 42 \text{ dB}\mu\text{V/m}$

Level in μ V/m = Common Antilogarithm [(42 dB μ V/m)/20] = 125.9 μ V/m



3.1.2 Radiated Emission Configuration Photograph

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

3.1.3 Radiated Emissions

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.

Worst Case Radiated Emission at 52.795 MHz

Judgement: Passed by 8.7dB

TEST PERSONNEL:

Sign on file

Surel Guo, Engineer Typed/Printed Name

22 July 2018 Date



Applicant: Zhejiang Fousine Science & Technology CO., LTDDate of Test: 22 July 2018Model: 190712-00Worst Case Operating Mode:Transmitting

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	30.485	18.1	20.0	17.6	15.7	40.0	-24.3
Horizontal	96.445	30.4	20.0	9.6	20.0	43.5	-23.5
Horizontal	251.645	28.4	20.0	14.3	22.7	46.0	-23.3
Vertical	52.795	42.8	20.0	8.5	31.3	40.0	-8.7
Vertical	94.505	41.4	20.0	9.4	30.8	43.5	-12.7
Vertical	191.990	31.1	20.0	11.3	22.4	43.5	-21.1

NOTES: 1. Quasi-Peak detector is used except for others stated.

- 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. All emissions are below the QP limit.



3.1.4 Transmitter Spurious Emissions (Radiated)

Worst Case Radiated Emission at 9640.000 MHz

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

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.

Judgement: Passed by 12.2 dB

TEST PERSONNEL:

Sign on file

Surel Guo, Engineer Typed/Printed Name

22 July 2018 Date



Applicant: Zhejiang Fousine Science & Technology CO., LTDDate of Test: 22 July 2018Model: 190712-00Worst Case Operating Mode:Transmitting

Table 2

Radiated Emissions

(2410MHz)

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2410.000	95.9	36.7	28.1	87.3	114.0	-26.7
Horizontal	4820.000	55.8	36.7	35.5	54.6	74.0	-19.4
Horizontal	7230.000	58.5	36.1	36.5	58.9	74.0	-15.1
Horizontal	9640.000	61.0	36.2	37.0	61.8	74.0	-12.2

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2410.000	95.9	36.7	28.1	21.3	66.0	94.0	-28.0
Horizontal	4820.000	55.8	36.7	35.5	21.3	33.3	54.0	-20.7
Horizontal	7230.000	58.5	36.1	36.5	21.3	37.6	54.0	-16.4
Horizontal	9640.000	61.0	36.2	37.0	21.3	40.5	54.0	-13.5

Notes: 1. Peak Detector Data unless otherwise stated.

- 2. All measurements were made at 3 meter. Harmonic emissions not detected at the 3-meter distance 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. Horn antenna is used for the emission over 1000MHz.

Test Engineer: Surel Guo



- 3.2 Conducted Emission at Mains Terminal
- 3.2.1 Conducted Emissions Configuration Photograph

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

3.2.2 Conducted Emissions

Worst Case Conducted Configuration At

0.182 MHz

Judgement: Passed by 13.3 dB margin

TEST PERSONNEL:

Sign on file

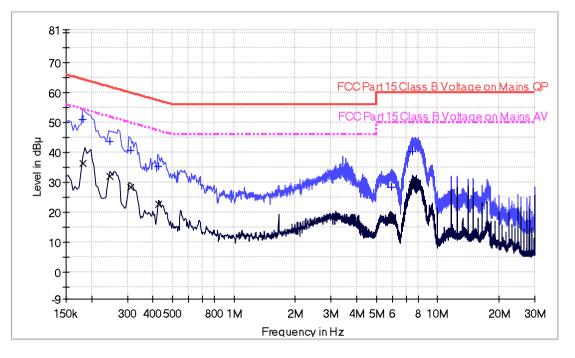
Surel Guo, Engineer Typed/Printed Name

22 July 2018 Date



Company: Foshan Lanchiya Digital Technology Co.,Ltd. Date of Test: July 22, 2018 Model: 190712-00 Operating Mode: Transmitting Phase: Live

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB¦ÌV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB¦ÌV)
0.181500	50.9	9.000	L1	9.7	13.5	64.4
0.246000	43.8	9.000	L1	9.7	18.1	61.9
0.310000	40.7	9.000	L1	9.7	19.3	60.0
0.426000	35.5	9.000	L1	9.7	21.8	57.3
5.970000	28.5	9.000	L1	9.8	31.5	60.0
7.518000	40.2	9.000	L1	9.9	19.8	60.0

Result Table AV

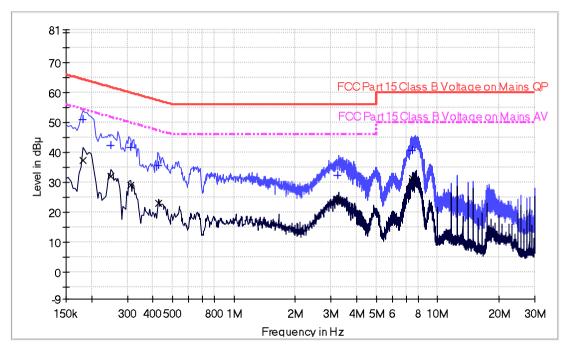
Frequency (MHz)	Average (dB¦ÌV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB¦ÌV)
0.181500	36.5	9.000	L1	9.7	17.9	54.4
0.246000	31.9	9.000	L1	9.7	20.0	51.9
0.310000	28.4	9.000	L1	9.7	21.6	50.0
0.426000	22.7	9.000	L1	9.7	24.6	47.3
5.970000	18.1	9.000	L1	9.8	31.9	50.0
7.518000	29.3	9.000	L1	9.9	20.7	50.0

Test Engineer: Surel Guo



Company: Foshan Lanchiya Digital Technology Co.,Ltd. Date of Test: July 22, 2018 Model: 190712-00 Operating Mode: Transmitting Phase: Neutral

Conducted Emission Test - FCC



Result Table QP

Frequency (MHz)	QuasiPeak (dB¦ÌV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB¦ÌV)
0.182000	51.1	9.000	N	9.7	13.3	64.4
0.250000	42.2	9.000	N	9.7	19.6	61.8
0.310000	41.7	9.000	N	9.7	18.3	60.0
0.426000	35.8	9.000	Ν	9.7	21.5	57.3
3.234000	32.2	9.000	Ν	9.8	23.8	56.0
7.562000	40.5	9.000	Ν	9.9	19.5	60.0

Result Table AV

Frequency (MHz)	Average (dB¦ÌV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB¦ÌV)
0.182000	37.5	9.000	Ν	9.7	16.9	54.4
0.250000	32.1	9.000	Ν	9.7	19.7	51.8
0.310000	29.2	9.000	N	9.7	20.8	50.0
0.426000	22.9	9.000	N	9.7	24.4	47.3
3.234000	24.3	9.000	N	9.8	21.7	46.0
7.562000	31.3	9.000	Ν	9.9	18.7	50.0

Test Engineer: Surel Guo



EXHIBIT 4

EQUIPMENT PHOTOGRAPHS



4.0 Equipment Photographs

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



EXHIBIT 5

PRODUCT LABELLING



5.0 Product Labelling

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



EXHIBIT 6

TECHNICAL SPECIFICATIONS



6.0 <u>Technical Specifications</u>

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



EXHIBIT 7

INSTRUCTION MANUAL



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.



EXHIBIT 8

MISCELLANEOUS INFORMATION



8.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge, the test procedure and calculation of factor such as pulse desensitization.



8.1 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: bandedge.pdf. From the plot, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfils the requirement of 15.249(d).

Peak Measurement

Restricted-band band-edge tests shall be performed as radiated measurements, i.e (Band-edge Plot).

(i) Lower frequency:

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2400.000	63.6	36.7	28.1	55.0	74.0	-19.0

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m	Margin (dB)
Horizontal	2400.000	53.1	36.7	28.1	44.5	54.0	-9.5

(ii) Upper frequency:

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
Horizontal	2483.500	60.7	36.8	29.1	53.0	74.0	-21.0

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Average Limit at 3m (dBµV/m	Margin (dB)
Horizontal I	2483.500	51.7	36.8	29.1	44.0	54.0	-10.0

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



8.1 Bandedge Plot (cont'd)

Pursuant to FCC part 15 Section 15.215(c), the 20dB 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.

Figure 8.1 Bandwidth



8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (T_{eff}) is approximately 1.971ms for a digital "1" bit, as shown in the plots of Exhibit 8.3. With a resolution bandwidth (3 dB) of 100 kHz, the pulse desensitivity factor was 0 dB



8.3 Transmitter Duty Cycle Calculation, FCC Rule 15.35 (b, c)

Averaging factor in $dB = 20 \log (duty cycle)$

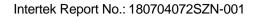
The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) and linear mode at maximum bandwidth (3 MHz at 3 dB down) and viewing the resulting time domain signal output from the analyzer on a Tektronix oscilloscope. The oscilloscope is used because of its superior time base and triggering facilities.

A plot of the worst-case duty cycle as detected in this manner are saved with filename: af.pdf

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

The duration of one cycle = 22.957msEffective period of the cycle = 1.971msDC =1.971ms/22.957957ms =0.0859 or 8.59%Therefore, the averaging factor is found by 20 log₁₀ (0.0859) = -21.3dB





8.4 Emissions Test Procedures

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

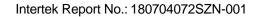
The test set-up and procedures described below are designed to meet the requirements of ANSI C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter, up to 1GHz 0.8m and above 1GHz 1.5m 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. The antenna height and polarization are varied during the testing to search for maximum signal levels.

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.

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.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.





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 are made as described in ANSI C63.10 - 2013.

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. 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. Above 1000 MHz, a resolution bandwidth of 1 MHz is used (RBW 3MHz used for fundamental emission).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted 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, but those measurements taken at a closer distance are so marked.



EXHIBIT 9 CONFIDENTIALITY REQUEST



9.0 **Confidentiality Request**

For electronic filing, the confidentiality request of the tested EUT is saved with filename: request.pdf.



EXHIBIT 10 TEST EQUIPMENT LIST



Test Report

Intertek Report No.: 180704072SZN-001

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	20-Sep-2017	20-Sep-2018
SZ185-01	EMI Receiver	R&S	ESCI	100547	24-Jan-2018	24-Jan-2019
SZ061-08	Horn Antenna	ETS	3115	00092346	20-Sep-2017	20-Sep-2018
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	11-May-2018	11-May-2019
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	5-Jun-2018	5-Jun-2019
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	24-Jan-2018	24-Jan-2019
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	16-Jan-2017	16-Jan-2019
SZ062-02	RF Cable	RADIALL	RG 213U		5-Jul-2018	5-Jan-2019
SZ062-05	RF Cable	RADIALL	0.04- 26.5GHz		6-Mar-2018	6-Sep-2018
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz		6-Mar-2018	6-Sep-2018
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02		5-Jun-2018	5-Jun-2019
SZ185-02	EMI Receiver	R & S	ESCI	100692	30-Oct-2017	30-Oct-2018
SZ187-01	LISN	R & S	ENV216	100072	30-Oct-2017	30-Oct-2018
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Jan-2017	16-Jan-2019