

TXS Industrial Design Inc. d.b.a Brandstand Products

TEST REPORT

SCOPE OF WORK

FCC TESTING-BPEST

REPORT NUMBER

181212029SZN-001

ISSUE DATE

[REVISED DATE]

20 DECEMBER 2018

.____]

PAGES

35

DOCUMENT CONTROL NUMBER

FCC ID 209_b © 2017 INTERTEK





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Intertek Report No.: 181212029SZN-001

TXS Industrial Design Inc. d.b.a Brandstand Products

Application For Certification

FCC ID: 2ARD4-BPEST

CUBIESPOT

Model: BPEST

Transmitter

Report No.: 181212029SZN-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:
Leo Li	Kidd Yang
Engineer	Technical Supervisor
	Date: 20 December 2018

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Intertek Testing Services Shenzhen Ltd. Longhua Branch

101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen.

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MEASUREMENT/TECHNICAL REPORT

CUBIESPOT

Model: BPEST

FCC ID: 2ARD4-BPEST

This report concerns (check one) Original Grant X Class II Change
Equipment Type: DCD - Part 15 Low Power Transmitter Below 1705 kHz
- <u>-</u> -
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes NoX
If yes, defer until : date
Company Name agrees to notify the Commission by: date
of the intended date of announcement of the product so that the grant can be issued on that date.
Transition Rules Request per 15.37? Yes NoX_
If no, assumed Part 15, Subpart C for intentional radiator - the new 47 CFR [10-01-17] Edition] provision.
Report prepared by:
Leo Li Intertek Testing Services Shenzhen Ltd.

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List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Conducted Emission	conducted photos.pdf
Test Setup Photo	Radiated Emission	radiated photos.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

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EXHIBIT 1

SUMMARY OF TEST RESULTS

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1.0 **Summary of Test results**

CUBIESPOT

Model: BPEST

FCC ID: 2ARD4-BPEST

TEST ITEM	REFERENCE	RESULTS
Power Line Conducted Emissions	15.207	Pass
Transmitter Radiated Emissions	15.209	Pass
Antenna Requirement	15.203	Pass (See Notes)

Notes: The EUT uses an Integral Antenna which in accordance to Section 15.203 is considered sufficient to comply with the provisions of this section.

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EXHIBIT 2

GENERAL DESCRIPTION

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2.0 General Description

2.1 Product Description

The Equipment Under Test (EUT) is a CUBIESPOT operating at 110-205 kHz. The EUT is powered by AC 100-240V, 50/60Hz,0.5A for Adapter; Max Output: DC 5V/1A or DC 9V/1.1A by wireless charger. For more detailed features description, please refer to the user's manual.

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Antenna Type: Integral Antenna(embedded coil antenna)

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

2.2 Related Submittal(s) Grants

This is an application for certification of the CUBIESPOT portion.

2.3 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 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. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

2.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are Intertek **Testing Services Shenzhen Ltd. Longhua Branch** and located at 101, 201, Building B, No. 308 Wuhe Avenue, Zhangkengjing Community, GuanHu Subdistrict, LongHua District, ShenZhen. This test facility and site measurement data have been fully placed on file with File Number: CN1188.

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EXHIBIT 3

SYSTEM TEST CONFIGURATION

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3.0 System Test Configuration

3.1 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 AC 120V/60Hz during the test. The test system was pre-scanning tested based on the consideration of following EUT operation mode. Only the worst case data is shown in the report.

Pertest mode	Description
Mode 1	Standby mode
Mode 2	Mobile phone is charging at 1% battery power
Mode 3	Mobile phone is charging at 50% battery power
Mode 4	Mobile phone is charging at 99% battery power

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 4.0.

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 mounted to a plastic stand if necessary and placed on the styrene turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

3.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The worst case configuration is used in all specified testing.

3.3 Special Accessories

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

3.4 Measurement Uncertainty

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

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3.5 Equipment Modification

Any modifications installed previous to testing by TXS Industrial Design Inc. d.b.a Brandstand Products 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.

3.6 Support Equipment List and Description

This product was tested in the following configuration:

Refer List:

Description	Manufacturer	Detail	
Mobile Phone	Samsung	S7	
DC adaptor	Provided by Applicant	BPEST	

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EXHIBIT 4

MEASUREMENT RESULTS

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4.1 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.

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

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 $\mu V/m$.

 $RA = 62.0dB\mu V$

AF = 7.4dB

CF = 1.6dBAG = 29.0dB

PD = 0dB

AV = -10dB

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

Level in $\mu V/m = Common Antilogarithm [(32dB<math>\mu V/m)/20] = 39.8 \mu V/m$

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4.2 Radiated Emission Configuration Photograph

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

4.3 Radiated Spurious Emission

Worst Case Radiated Spurious Emission at 80.440MHz

Judgement: Passed by 9.8dB margin

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

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Applicant: TXS Industrial Design Inc. d.b.a Brandstand Products

Date of Test: December 14, 2018 Model: BPEST

Worst Case Operating Mode: Mode 2

Radiated Emissions (30MHz - 1000MHz)

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	158.040	35.5	20.0	10.2	25.7	43.5	-17.8
Horizontal	257.000	36.0	20.0	12.9	28.9	46.0	-17.1
Horizontal	347.190	28.0	20.0	15.8	23.8	46.0	-22.2
Vertical	80.440	42.2	20.0	8.0	30.2	40.0	-9.8
Vertical	97.900	43.4	20.0	8.8	32.2	43.5	-11.3
Vertical	138.155	39.0	20.0	8.7	27.7	43.5	-15.8

NOTES: 1. Quasi-Peak detector is used for frequency below 1GHz.

- 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.

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Applicant: TXS Industrial Design Inc. d.b.a Brandstand Products

Date of Test: December 14, 2018 Model: BPEST

Worst Case Operating Mode: Mode 2

Fundamental & Spurious Emission Below 30MHz

Polarization	Frequency (MHz)	Reading (dBµV)	Pre- Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Distance Factor (-dB)	Calulated at 300m (dBµV/m)	Limit at 300m (dBµV/m)	Margin (dB)
Horizontal	0.141	70.6	0.0	12.0	82.6	80	2.6	24.6	-22.0
Horizontal	0.195	47.9	0.0	11.9	59.8	80	-20.2	21.8	-42.0
Horizontal	0.419	49.0	0.0	11.5	60.5	80	-19.5	15.2	-34.7

Notes:

- 1. The specified limits of frequency band 9~90 KHz, 110~490 KHz are in average and measurements are made with peak detectors. Quasi-Peak detector is used for other frequency band.
- 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. Loop antenna is used for the emission under 30MHz.
- 5. Horizontal and Vertical polarization were tested and Only the worst Case data is shown.

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4.4 Conducted Emission Configuration Photograph

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

4.5 Conducted Emission

Worst Case Conducted Configuration at 13.074MHz

Judgement: Passed by 9.3dB margin

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Applicant: TXS Industrial Design Inc. d.b.a Brandstand Products

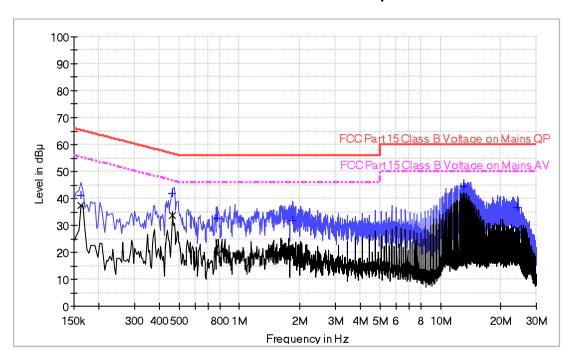
Date of Test: December 14, 2018 Model: BPEST

Worst Case Operating Mode: Mode 2

Phase: Live

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.207: Emissions Requirement



Limit and Margin QP

		-				
Frequency (MHz)	QuasiPeak (dB¦ÌV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB¦ÌV)
0.162000	41.2	9.000	L1	9.6	24.2	65.4
0.466000	42.0	9.000	L1	9.6	14.6	56.6
0.778000	32.7	9.000	L1	9.7	23.3	56.0
1.838000	31.7	9.000	L1	9.7	24.3	56.0
13.074000	44.6	9.000	L1	9.9	15.4	60.0
24.186000	36.6	9.000	L1	10.5	23.4	60.0

Limit and Margin AV

Freque	ncy	Average	Bandwidth	Line	Corr.	Margin	Limit
(MH	z)	(dB¦ÌV)	(kHz)		(dB)	(dB)	(dB¦ÌV)
0.1620	000	37.5	9.000	L1	9.6	17.9	55.4
0.4660	000	33.6	9.000	L1	9.6	13.0	46.6
0.7780	000	19.1	9.000	L1	9.7	26.9	46.0
1.8380	000	19.6	9.000	L1	9.7	26.4	46.0
13.074	000	40.7	9.000	L1	9.9	9.3	50.0
24.186	000	28.6	9.000	L1	10.5	21.4	50.0

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Applicant: TXS Industrial Design Inc. d.b.a Brandstand Products

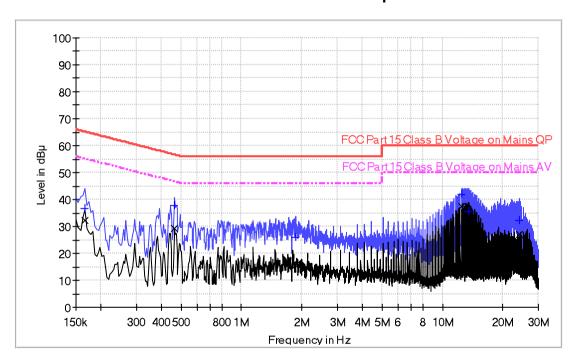
Date of Test: December 14, 2018 Model: BPEST

Worst Case Operating Mode: Mode 2

Phase: Neutral

Graphic / Data Table

Conducted Emissions Pursuant to FCC 15.107: Emissions Requirement



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dB¦ÌV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB¦ÌV)
0.166000	36.5	9.000	N	9.6	28.7	65.2
0.466000	37.9	9.000	N	9.7	18.7	56.6
1.866000	25.7	9.000	N	9.7	30.3	56.0
12.418000	41.8	9.000	N	9.9	18.2	60.0
13.562000	35.5	9.000	N	10.0	24.5	60.0
24.182000	32.3	9.000	N	10.5	27.7	60.0

Limit and Margin AV

•							
Frequency	Average	Bandwidth	Line	Corr.	Margin	Limit	
(MHz)	(dB¦ÍV)	(kHz)		(dB)	(dB)	(dB¦ÌV)	
0.166000	32.3	9.000	N	9.6	22.9	55.2	
0.466000	29.2	9.000	N	9.7	17.4	46.6	
1.866000	15.4	9.000	N	9.7	30.6	46.0	
12.418000	37.4	9.000	N	9.9	12.6	50.0	
13.562000	30.2	9.000	N	10.0	19.8	50.0	
24.182000	27.0	9.000	N	10.5	23.0	50.0	

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EXHIBIT 5

EQUIPMENT PHOTOGRAPHS

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5.0 Equipment Photographs

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

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EXHIBIT 6

PRODUCT LABELLING

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6.0 Product Labeling

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

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EXHIBIT 7

TECHNICAL SPECIFICATIONS

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7.0 Technical Specifications

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

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EXHIBIT 8

INSTRUCTION MANUAL

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8.0 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.

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EXHIBIT 9

MISCELLANEOUS INFORMATION

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9.0 Miscellaneous Information

This miscellaneous information includes emission measuring procedure

9.1 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 and approximately 0.8 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 adjusted 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.

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

The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz up to the 1GHz. For line-conducted emissions, the range scanned is 150kHz to 30MHz.

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9.2 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. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 9.1).

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands, 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.

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EXHIBIT 10

CONFIDENTIALITY REQUEST

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10.0 Confidentiality Request

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

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EXHIBIT 11

TEST EQUIPMENT LIST

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11.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-12	BiConiLog Antenna	ETS	3142E	00166158	14-Sep-2018	14-Sep-2019
SZ185-01	EMI Receiver	R&S	ESCI	100547	24-Jan-2018	24-Jan-2019
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
SZ056-06	Signal Analyzer	R&S	FSV 40	101101	5-Jun-2018	5-Jun-2019
SZ188-01	Anechoic Chamber	ETS	RFD-F/A- 100	4102	16-Jan-2017	16-Jan-2019
SZ062-02	RF Cable	RADIALL	RG 213U		2-Jul-2018	2-Jan-2019
SZ062-05	RF Cable	RADIALL	0.04- 26.5GHz		5-Sep-2018	5-Feb-2019
SZ062-12	RF Cable	RADIALL	0.04- 26.5GHz	1	5-Sep-2018	5-Feb-2019
SZ185-02	EMI Test Receiver	R&S	ESCI	100692	26-Oct-2018	26-Oct-2019
SZ187-02	Two-Line V- Network	R&S	ENV216	100073	4-Jul-2018	4-Jul-2019
SZ188-03	Shielding Room	ETS	RFD-100	4100	16-Jan-2017	16-Jan-2019
SZ062-16	RF Cable	HUBER+SUH NER	CBL2-BN- 1m	110127- 2231000	29-Oct-2018	29-Oct-2019

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