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## TEST REPORT

Application No.: SZEM1802001511CR (SHEM1801000382CR)

FCC ID: 2ACGNP5536

**Applicant:** Bestway Inflatables & Material Corp.

Address of Applicant: No. 3065 Cao An Road, Shanghai, China

Manufacturer: Bestway Inflatables & Material Corp.

Address of Manufacturer: No. 3065 Cao An Road, Shanghai, China

Factory: Bestway (Nantong) Recreation Corp.

Address of Factory: No. 8 West Hui Min Road, Economic Development Zone, Rugao, Jiangsu

226500, China.

**Equipment Under Test (EUT):** 

**EUT Name:** Remote Control

Model No.: P61232

Trade mark: BESTWAY

Standard(s): 47 CFR Part 15, Subpart C 15.231

**Date of Receipt:** 2018-01-15

**Date of Test:** 2018-02-08 to 2018-02-09

**Date of Issue:** 2018-03-12

Test Result: Pass\*



Keny Xu E&E Section Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards specified above.



Report No.: SZEM180200151102

Page: 2 of 19

	Revision Record				
Version	Description	Date	Remark		
00	Original	2018-03-12	/		

Authorized for issue by:		
	Forychon	
	Foray Chen /Project Engineer	
	Eric Fu	
	Eric Fu /Reviewer	



Report No.: SZEM180200151102

Page: 3 of 19

## 2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.231	N/A	47 CFR Part 15, Subpart C 15.203	Pass

N/A: Not applicable

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
20dB Bandwidth	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.231(c)	Pass
Dwell Time (15.231(a))	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 7.8.4	47 CFR Part 15, Subpart C 15.231(a)	Pass
Field Strength of the Fundamental Signal (15.231(b))	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.5	47 CFR Part 15, Subpart C 15.231(b)	Pass
Radiated Emissions	47 CFR Part 15, Subpart C 15.231	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.231(b) &15.209	Pass

N/A: Not applicable



Report No.: SZEM180200151102

Page: 4 of 19

## 3 Contents

			Page
1	COVER PA	AGE	1
_			
2	TEST SUM	MMARY	3
3	CONTENT	<sup>-</sup> S	4
4	GENERAL	INFORMATION	5
		ILS OF E.U.T	
		RIPTION OF SUPPORT UNITS	
		SUREMENT UNCERTAINTY	
		LOCATION	
		FACILITY	
		ATION FROM STANDARDS	
		RMALITIES FROM STANDARD CONDITIONS	
5	<b>EQUIPMEN</b>	NT LIST	7
6	RADIO SPI	PECTRUM TECHNICAL REQUIREMENT	8
	6.1 ANTEN	NNA REQUIREMENT	8
	6.1.1 Tes	est Requirement:	8
	6.1.2 Co.	onclusion	8
7	RADIO SP	PECTRUM MATTER TEST RESULTS	9
		BANDWIDTH	
		U.T. Operation	
		est Setup Diagram	
		easurement Procedure and Data	
		_L TIME (15.231(A))	
		U.T. Operation	
		est Setup Diagram	
		easurement Procedure and Data	
		STRENGTH OF THE FUNDAMENTAL SIGNAL (15.231(B))	
		U.T. Operation	
		est Setup Diagram	
		easurement Procedure and Data	
		ATED EMISSIONS	
		U.T. Operation	
		est Setup Diagram	
		easurement Procedure and Data	
8	TEST SET	UP PHOTOGRAPHS	19
_			_
9	EUT CONS	STRUCTIONAL DETAILS	19



Report No.: SZEM180200151102

Page: 5 of 19

## 4 General Information

## 4.1 Details of E.U.T.

Power supply: DC 6V, 2\* CR2032 button cell

Test voltage: DC 6V
Operation Frequency: 433.92MHz

Device Type: Manually operated transmitter

## 4.2 Description of Support Units

The EUT has been tested as an independent unit.

## 4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.25 x 10-8
2	Timeout	2s
3	Duty cycle	0.37%
4	Occupied Bandwidth	3%
5	RF conducted power	0.75dB
6	RF power density	2.84dB
7	Conducted Spurious emissions	0.75dB
8	DE Dedicted newer	4.5dB (Below 1GHz)
0	RF Radiated power	4.8dB (Above 1GHz)
		4.2dB (Below 30MHz)
0	Dedicted Courieus amiceien test	4.4dB (30MHz-1GHz)
9	Radiated Spurious emission test	4.6dB (1GHz-18GHz)
		5.2dB (Above 18GHz)
10	Temperature test	1℃
11	Humidity test	3%
12	Supply voltages	1.5%
13	Time	3%

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



Report No.: SZEM180200151102

Page: 6 of 19

#### 4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

## 4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### · CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

## • FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

#### Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

## 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



Report No.: SZEM180200151102

Page: 7 of 19

## 5 Equipment List

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Conducted Test	Conducted Test				
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Spectrum Analyzer	Agilent	N9020A	SHEM181-1	2017-09-26	2018-09-25
Power meter	R&S	NRP	SHEM057-1	2017-12-26	2018-12-25
Power Sensor	R&S	NRP-Z22	SHEM136-1	2017-07-22	2018-07-21
Power Sensor	R&S	NRP-Z91	SHEM057-2	2017-12-26	2018-12-25
Signal Generator	R&S	SMR40	SHEM058-1	2017-07-03	2018-07-02
Signal Generator	Agilent	N5182A	SHEM182-1	2017-09-26	2018-09-25
Communication Tester	R&S	CMW270	SHEM183-1	2017-10-22	2018-10-21
Switcher	Tonscend	JS0806	SHEM184-1	2017-09-26	2018-09-25
Splitter	Anritsu	MA1612A	SHEM185-1	/	/
Coupler	e-meca	803-S-1	SHEM186-1	/	/
High-low Temp Cabinet	Suzhou Zhihe	TL-40	SHEM087-1	2017-09-26	2018-09-25
AC Power Stabilizer	WOCEN	6100	SHEM045-1	2017-12-26	2018-12-25
DC Power Supply	QJE	QJ30003SII	SHEM046-1	2017-12-26	2018-12-25
Conducted test Cable	/	RF01, RF 02	/	2017-12-26	2018-12-25
Radiated Test					
EMI test receiver	R&S	ESU40	SHEM051-1	2017-12-20	2018-12-19
Spectrum Analyzer	R&S	FSP-30	SHEM002-1	2017-12-20	2018-12-19
Loop Antenna (9kHz-30MHz)	Schwarzbeck	FMZB1519	SHEM135-1	2017-04-10	2020-04-09
Antenna (25MHz-2GHz)	Schwarzbeck	VULB9168	SHEM048-1	2017-02-28	2020-02-27
Antenna (25MHz-3GHz)	Schwarzbeck	HL562	SHEM010-1	2017-02-28	2020-02-27
Horn Antenna (1-8GHz)	Schwarzbeck	HF906	SHEM009-1	2017-10-24	2020-10-23
Horn Antenna (1-18GHz)	Schwarzbeck	BBHA9120D	SHEM050-1	2017-01-14	2020-01-13
Horn Antenna (14-40GHz)	Schwarzbeck	BBHA 9170	SHEM049-1	2017-12-03	2020-12-02
Pre-amplifier (9KHz-2GHz)	CLAVIIO	BDLNA-0001-412010	SHEM164-1	2017-08-22	2018-08-21
Pre-amplifier (1-18GHz)	CLAVIIO	BDLNA-0118-352810	SHEM050-2	2017-08-22	2018-08-21
High-amplifier (14-40GHz)	Schwarzbeck	10001	SHEM049-2	2017-12-20	2018-12-19
Band filter	LORCH	9BRX-875/X150-SR	SHEM156-1	/	/
Band filter	LORCH	13BRX-1950/X500-SR	SHEM083-2	/	/
Band filter	LORCH	5BRX-2400/X200-SR	SHEM155-1	/	/
Band filter	LORCH	5BRX-5500/X1000-SR	SHEM157-2	/	/
High pass Filter	Wainwright	WHK3.0/18G-100SS	SHEM157-1	/	/
High pass Filter	Wainwright	WHKS1700-3SS	SHEM157-3	/	/
Semi/Fully Anechoic	ST	11*6*6M	SHEM078-2	2017-07-22	2020-07-21
RE test Cable	/	RE01, RE02, RE06	/	2017-12-26	2018-12-25



Report No.: SZEM180200151102

Page: 8 of 19

## 6 Radio Spectrum Technical Requirement

## 6.1 Antenna Requirement

## 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

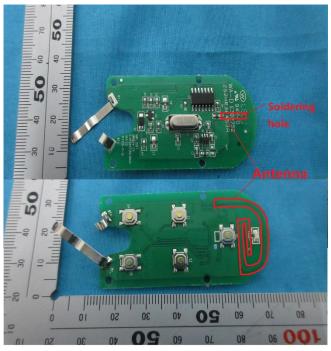
#### 6.1.2 Conclusion

#### Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

#### **EUT Antenna:**

The PCB antenna is integrated and no consideration of replacement.





Report No.: SZEM180200151102

Page: 9 of 19

## 7 Radio Spectrum Matter Test Results

## 7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.231(c)
Test Method: ANSI C63.10 (2013) Section 6.9

Limit:

Frequency range(MHz)	Limit
70-900	No wider than 0.25% of the center frequency
Above 900	No wider than 0.5% of the center frequency

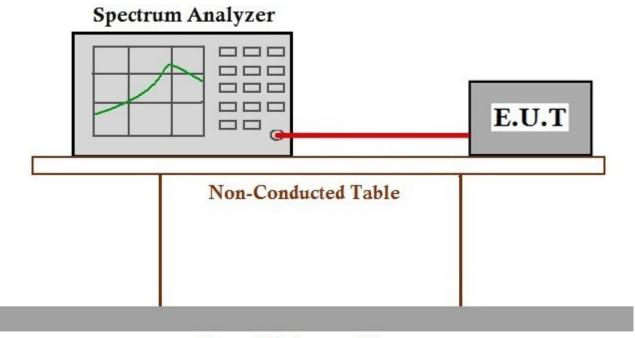
## 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering mode:Keep the EUT in transmitting with modulation mode.

#### 7.1.2 Test Setup Diagram



Ground Reference Plane



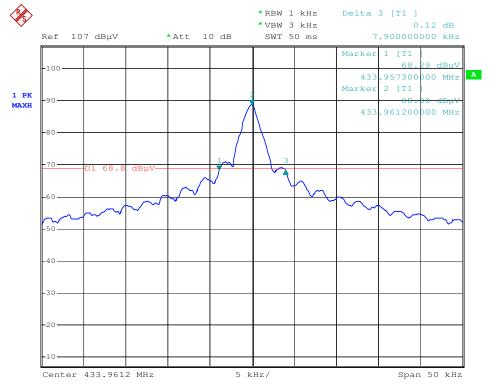
Report No.: SZEM180200151102

Page: 10 of 19

#### 7.1.3 Measurement Procedure and Data

Frequency(MHz)	20dB bandwidth (kHz)	Limit (kHz)	Results
433.92	7.90	1084.8	Pass

#### Test plot as follows:





Report No.: SZEM180200151102

Page: 11 of 19

## 7.2 Dwell Time (15.231(a))

Test Requirement 47 CFR Part 15, Subpart C 15.231(a)
Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

	Device type	Limit
$\boxtimes$	Manually operated transmitter	The switch automatically deactivate the transmitter within not more than 5 seconds of being released
	Automatically actived transmitter	Cease transmission within 5 seconds after activation
	Periodic transmissions to determine system integrity of transmitters used in security or safety applications	The total transmission time does not exceed 2 seconds per hour

## 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering mode:Keep the EUT in transmitting with modulation mode.

## 7.2.2 Test Setup Diagram

# Spectrum Analyzer E.U.T Non-Conducted Table

Ground Reference Plane



Report No.: SZEM180200151102

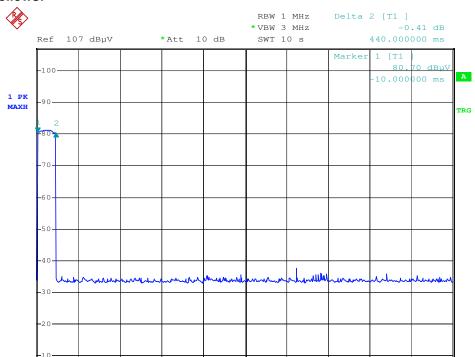
Page: 12 of 19

#### 7.2.3 Measurement Procedure and Data

Center 433.9612 MHz

Test item	Limit (s)	Results
Transmission Duration	≤5s	Pass

## Test plot as follows:



1 s/



Report No.: SZEM180200151102

Page: 13 of 19

## 7.3 Field Strength of the Fundamental Signal (15.231(b))

Test Requirement N/A

Test Method: ANSI C63.10 (2013) Section 6.5

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(microvolts/meter)	Field strength of spurious emissions(microvolts/meter)
40.66-40.70	2250	225
70-130	1250	125
130-174	1250 to 3750	125 to 375
174-260	3750	375
260-470	3750 to 12500	375 to 1250
Above 470	12500	1250

Remark: the emission limit is based on measurement instrumentation employing an average detector at a distance of 3 meters. The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Limit:	Frequency	Limit (dBuV/m @3m)	Remark	
(Field strength of the fundamental signal)	400.001411-	80.83	Average Value	
	433.92MHz	100.83	Peak Value	

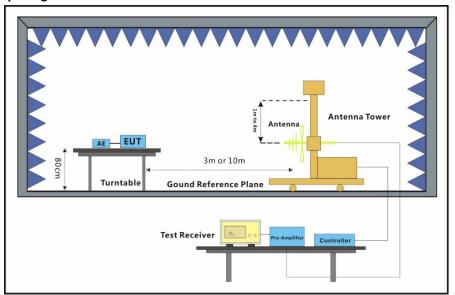
## 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering mode:Keep the EUT in transmitting with modulation mode.

#### 7.3.2 Test Setup Diagram





Report No.: SZEM180200151102

Page: 14 of 19

#### 7.3.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna 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.
- e. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Freq. (MHz)	Result Level (dBμV/m)	Limit Line (dBµV/m)	Over Limit (dB)	Detector	Polarization
433.92	72.24	80.80	-8.56	Peak	Vertical
	77.74	80.80	-3.06	Peak	Horizontal

Remark: If the Peak value below the AV Limit, the AV test doesn't perform for this submission.



Report No.: SZEM180200151102

Page: 15 of 19

#### 7.4 Radiated Emissions

Test Requirement N/A

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)		
0.009-0.490	2400/F(kHz)	300		
0.490-1.705	24000/F(kHz)	30		
1.705-30.0	30	30		
30-88	100	3		
88-216	150	3		
216-960	200	3		
Above 960	500	3		

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

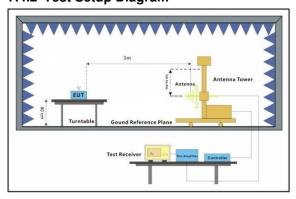
## 7.4.1 E.U.T. Operation

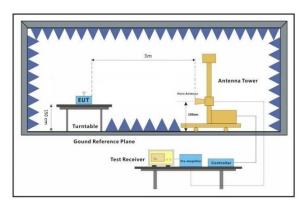
Operating Environment:

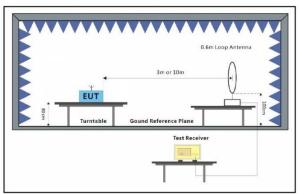
Temperature: 21 °C Humidity: 45 % RH Atmospheric Pressure: 1010 mbar

Test mode a: Engineering mode:Keep the EUT in transmitting with modulation mode.

## 7.4.2 Test Setup Diagram







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Report No.: SZEM180200151102

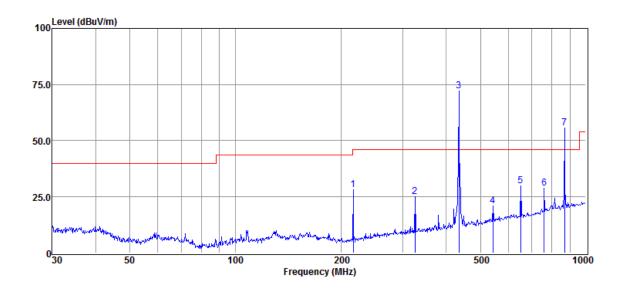
Page: 16 of 19

## 7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Below 1GHz

Vertical:



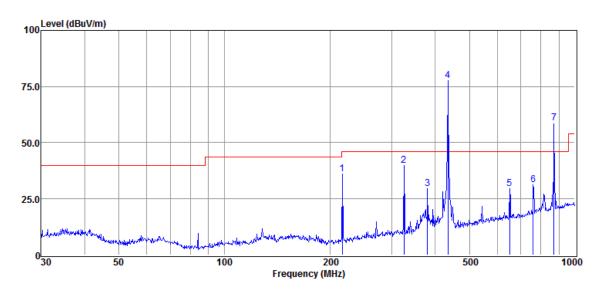
Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m )	(dBµV/m )	(dB)		
1	216.78	59.66	10.15	42.50	0.72	28.03	46.00	-17.97	QP	Vertical
2	325.60	52.82	13.73	42.32	0.88	25.11	46.00	-20.89	QP	Vertical
3	433.96	97.42	15.87	42.11	1.06	Fundamental signal		Peak	Vertical	
4	543.27	43.73	18.22	42.16	1.26	21.05	46.00	-24.95	QP	Vertical
5	651.94	50.69	19.84	42.25	1.51	29.79	46.00	-16.21	QP	Vertical
6	760.70	48.38	21.27	42.60	1.91	28.96	46.00	-17.04	QP	Vertical
7	869.13	73.06	22.46	42.10	2.31	55.73	60.80	-5.07	QP	Vertical



Report No.: SZEM180200151102

Page: 17 of 19

#### Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector	Polarization
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m )	(dBµV/m )	(dB)		
1	216.78	67.55	10.15	42.50	0.72	35.92	46.00	-10.08	QP	Vertical
2	325.60	67.55	13.73	42.32	0.88	39.84	46.00	-6.16	QP	Vertical
3	379.91	56.04	14.75	42.15	0.96	29.60	46.00	-16.40	QP	Vertical
4	433.96	102.92	15.87	42.11	1.06	Fundamental signal		Peak	Vertical	
5	651.94	50.38	19.84	42.25	1.51	29.48	46.00	-16.52	QP	Vertical
6	760.70	50.69	21.27	42.60	1.91	31.27	46.00	-14.73	QP	Vertical
7	872.18	76.11	22.49	42.10	2.31	58.81	60.80	-1.99	QP	Vertical



Report No.: SZEM180200151102

Page: 18 of 19

#### Above 1GHz

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	polarization
1	1301.93	45.52	-7.38	38.14	54	-15.86	peak	Horizontal
2	1738.24	54.43	-4.99	49.44	54	-4.56	peak	Horizontal
3	2172.51	41.83	-2.93	38.9	54	-15.10	peak	Horizontal
1	1302.66	45.80	-7.38	38.42	54	-15.58	peak	Vertical
2	1735.04	49.47	-4.99	44.48	54	-9.52	peak	Vertical
3	2170.1	45.43	-2.93	42.50	54	-11.50	peak	Vertical

#### Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading Level +Antenna Factor + Cable Factor - Preamplifier Factor

- 2) If Peak Result comply with AV limit, AV Result is deemed to comply with QP limit
- 3) No any other emissions level which are attenuated less than 20dB below the limit. According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.



Report No.: SZEM180200151102

Page: 19 of 19

## 8 Test Setup Photographs

Refer to the < Test Setup photos-FCC>.

## 9 EUT Constructional Details

Refer to the < External Photos > & < Internal Photos >.

- End of the Report -