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Report No.: GZEM190401211606
Page: 1 of 11

TEST REPORT

Application No.: GZEM1911016832CR
Applicant: Truma Gerätetechnik GmbH & Co. KG
Address of Applicant: Wernher-von-Braun-Straße 12 85640 Putzbrunn
Manufacturer: Foshan Sanshui Colku Electrical Appliance Limited
Address of Manufacturer: No.84 Area B, Sanshui Central Technology Industry Park, Leping, Sanshui Dist., Foshan City, Guangdong, China
Factory: Foshan Sanshui Colku Electrical Appliance Limited
Address of Factory: No.84 Area B, Sanshui Central Technology Industry Park, Leping, Sanshui Dist., Foshan City, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Refrigerator
Model No.: Truma Cooler C30 US, Truma Cooler C36 US, Truma Cooler C44 US, Truma Cooler C60 US, Truma Cooler C73 US, Truma Cooler C105 US, Truma Cooler C69 DZ US, Truma Cooler C85 DZ US, Truma Cooler C96 DZ US. ✕
✕ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Truma
Standard(s) : 47 CFR Part 1.1307, Part 2.1093, KDB 447498
Date of Receipt: 2019-04-18
Date of Test: 2019-06-25 to 2019-08-28
Date of Issue: 2019-09-16 (for original report GZEM190401211603)
2019-11-07 (for Co-license report GZEM190401211606)

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kobe Jian

EMC Laboratory Manager

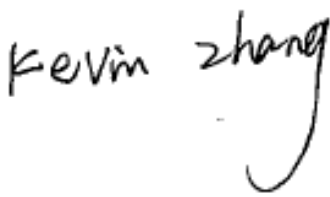
The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant 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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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-09-16		Original
02		2019-11-07		Co-license report: Changed applicant & address of applicant, trade mark and model name.

Authorized for issue by:			
Tested By		2019-06-25 to 2019-08-28 Date	
Checked By		2019-11-07 Date	



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	Pass

✧ Remark for original report GZEM190401211601:

Declaration of EUT Family Grouping:

Model No.: CCP30, CCP36, CCP44, CCP60, CCP73, CCP105, CCP96DZ, CCP69DZ, CCP85DZ

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the cubage and model No..

Therefore only one model **CCP96DZ** was tested in this report.

✧ Remark for Co-license report GZEM190401211606:

This report GZEM190401211606 was a co-license report based on original report GZEM190401211603, only changed applicant & address of applicant, trade mark and model name.

According to the declaration from the applicant, the models Truma Cooler C30 US, Truma Cooler C36 US, Truma Cooler C44 US, Truma Cooler C60 US, Truma Cooler C73 US, Truma Cooler C105 US, Truma Cooler C69 DZ US, Truma Cooler C85 DZ US, Truma Cooler C96 DZ US in this report and the models CCP30, CCP36, CCP44, CCP60, CCP73, CCP105, CCP96DZ, CCP69DZ, CCP85DZ in original report were identical, only differences being the instruction manual, marking plate and packaging.

Therefore the data in original report was kept in this report GZEM190401211606.



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4 General Information

4.1 Details of E.U.T.

Power Supply:	AC 100V-240V 50/60Hz DC 12/24V
Test Voltage:	AC 120V 60Hz / DC 12/24V
Cable:	AC input cable (unshielded, 1.5m) DC input cable (unshielded, 1.8m) USB output port (5V, 3A) AC input inlet DC input inlet 1 DC input inlet 2
Antenna Gain	0dBi
Antenna Type	Integrated Antenna
Channel Spacing	2MHz
Modulation Type	GFSK
Number of Channels	40
Operation Frequency	2402MHz to 2480MHz

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	$\pm 5.5 \times 10^{-8}$
2	Duty cycle	$\pm 0.57\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF Conducted power	$\pm 0.68\text{dB}$
5	RF Power Density	$\pm 1.50\text{dB}$
6	Conducted Spurious Emissions	$\pm 1.04\text{dB}$
7	RF Radiated Power	$\pm 4.5\text{dB}$ (below 1GHz) $\pm 4.8\text{dB}$ (above 1GHz)
8	Radiated Spurious Emission Test	$\pm 4.5\text{dB}$ (30MHz-1GHz) $\pm 4.8\text{dB}$ (1GHz-18GHz)
9	Temperature	$\pm 0.4^\circ\text{C}$
10	Humidity	$\pm 1.3\%$
11	Supply Voltages	$\pm 1.5\%$
12	Time	$\pm 3\%$



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663

Tel: +86 20 82155555

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No tests were sub-contracted.



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4.5 Test Facility

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

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

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.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
EXA Signal Analyzer	AgilentTechnologies	N9010A	EMC2138	2018-11-19	2019-11-18
6dB Attenuator	HP	8491A	EMC2062	2018-04-04	2020-04-03
Test Software JS1120-3	HangTianXing	V2.6	GZE100-69	N/A	N/A
MI CABLE	SGS	0.8M	EMC2136	2017-11-02	2019-11-01
MI CABLE	SGS	0.8M	EMC2137	2017-11-02	2019-11-01



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6 Radio Spectrum Technical Requirement

6.1 RF Exposure

6.1.1 Test Requirement:

CFR 47 Part 2.1093

Limit:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

6.1.2 Calculation

The Max conducted output power is 1.872 dBm in Lowest channel (2.480 GHz);

The best case gain of the antenna is 0 dBi.

$\text{EIRP} = 1.872 \text{ dBm} + (0 \text{ dBi}) = 1.872 \text{ dBm}$

1.872 dBm logarithmic terms convert to numeric result is nearly 1.54 mW

According to the formula. calculate the test result:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$

General RF Exposure = $(1.54 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.480 \text{ GHz}} = 0.48$ ①

SAR requirement:

$S = 3.0$ ② ;

① $<$ ②.

So the SAR report is not required.



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7 Photographs

7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1911016832CR.

--End of Report--



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