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Test Report

Curtis-Straus LLC, a wholly owned subsidiary of BV CPS

Report No	EQ3665-1
Client	Stack-On Products Company
Address	1360 North Old Rand Road Wauconda, IL 60084
Phone	(847) 469 - 5175
Items tested	PC-1702-RFID
FCC ID	2ALP5-PC-1702-RFID
FRN	0026155481
Standards	CFR Title 47 FCC Part 15.209, ISED Canada RSS-210 Issue 9
Test Dates	February 28 and March 27, 2017
Results	As detailed within this report
Prepared by	 Tuyen Truong – EMC Test Engineer
Authorized by	 Yunus Faziloglu – Sr. EMC Engineer
Issue Date	4/11/2017
Conditions of Issue	This Test Report is issued subject to the conditions stated in the 'Conditions of Testing' section on page 12 of this report.

Curtis-Straus LLC is accredited by the American Association for Laboratory Accreditation for the specific scope of accreditation under Certificate Number 1627-01. This report may contain data which is not covered by the A2LA accreditation.



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Form Final Report REV 2-16-07 (DW)



Summary

On February 28 and March 27, 2017 we tested the PC-1702-RFID for compliance with the following requirements:

CFR Title 47 FCC Part 15.209, ISED Canada RSS-210 Issue 9 Section 4.4

EUT is a battery powered RFID reader operating at 125 kHz. Emissions were maximized around 3 orthogonal planes (X, Y and Z). EUT has an integral antenna.

We found that the product met the above requirements without modification. Test sample was received in good condition.



Reason for change
Original Release

Date Issued
April 11, 2017

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Product Tested - Configuration Documentation

EUT Configuration			
Work Order:	Q3665		
Company:	Stack-On Products Company		
Company Address:	1360 North Old Rand Road		
	Wauconda, IL 60084		
Contact:	Rich Glogovsky		
	MN	PN	SN
EUT:	PC-1702-RFID	--	Sample 1
EUT Description:	Black storage case with key-lock		
EUT Max Frequency:	6 MHz (associated circuitry)		
EUT TX Frequency:	0.125 MHz		
Software Operating Mode Description:			
Case is locked and unlocked by RFID keys for every 2 seconds.			



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Compliance Statement

TEST	RESULT	STANDARD	MARGIN	COMMENTS
Radiated Emissions – Fundamental Frequency	PASS	CFR Title 47 FCC Part 15.209, ISED Canada RSS-210 Issue 9 Section 4.4	-59.6dB @ 0.125 MHz	PASS
Spurious Radiated Emissions	PASS	CFR Title 47 FCC Part 15.209, ISED Canada RSS-210 Issue 9 Section 4.4	-11.3dB @ 377.2 MHz	PASS
AC Power Line Conducted Emissions	N/A	CFR Title 47 FCC Part 15.207, ISED Canada RSS-Gen Issue 4 Section 8.8	N/A	EUT is battery powered

Modifications Required for Compliance

None.



Reason for change
Original Release

Date Issued
April 11, 2017

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Test Results

RADIATED EMISSIONS

Radiated Emissions Table

Date: 27-Mar-17			Company: Stack-on Products Company				Work Order: Q3665					
Engineer: Chris Bramley			EUT Desc: PC-1702-RFID				EUT Operating Voltage/Frequency: Battery					
Temp: 24.4°C			Humidity: 27%		Pressure: 1008mBar							
Frequency Range: Fundamental							Measurement Distance: 3 m					
Notes: EUT in Z-Orientation							EUT Tx Freq: 125kHz					
Antenna Polarization (0° - 90°)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBµV/m)				FCC 15.209		
										Lim it (dBµV/m)	Margin (dB)	Result (Pass/Fail)
0	0.125	21.7	25.9	50.2	0.0	46.0				105.6	-59.6	Pass
90	0.125	18.8	25.9	50.2	0.0	43.1				105.6	-62.5	Pass
Table Result: Pass							by -59.6 dB		Worst Freq: 0.125 MHz			
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053					
Analyzer: Rental SA#1			Preamp: Red				Antenna: Lg Loop					
CSsoft Radiated Emissions Calculator			v 1.017.185									
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												
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Rev. 3/27/2017

Spectrum Analyzers / Receivers / Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental EXA Signal Analyzer(1199509)		9KHz-26.5GHz	N9010A-526;R	AT	SG53470118	1199509	I	1/27/2018	1/27/2017
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code	Range	Asset	Cat	Calibration Due	Calibrated on
EMI Chamber 2		719150	2762A-7	A-0015	30-1000MHz	1686	II	12/21/2018	12/21/2016
Preamps / Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red		0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	1/28/2018	1/28/2017
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Large Loop		20Hz-5MHz	6511	EMCO	9704-1154	67	I	6/14/2018	6/14/2016
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)			BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2078			HTC-1	HDE		2078	II	3/23/2018	3/23/2017
Cables		Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2052		9kHz - 18GHz		Florida RF			II	3/5/2018	3/5/2017
Asset #2053		9kHz - 18GHz		Florida RF			II	10/1/2017	10/30/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table

Date: 27-Mar-17			Company: Stack-on Products Company				Work Order: Q3665			
Engineer: Chris Bramley			EUT Desc: PC-1702-RFID				EUT Operating Voltage/Frequency: Battery			
Temp: 24.4°C			Humidity: 27%		Pressure: 1008mBar					
Frequency Range: 9kHz - 1MHz							Measurement Distance: 3 m			
Notes: EUT in Z-Orientation							EUT Tx Freq: 125kHz			
Antenna Polarization (0° - 90°)	Frequency (MHz)	Reading (dBµV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBµV/m)	FCC 15.209			
							Limit (dBµV/m)	Margin (dB)	Result (Pass/Fail)	
0	0.123	9.3	25.9	50.3	0.0	33.7	105.8	-72.1	Pass	
90	0.123	5.9	25.9	50.3	0.0	30.3	105.8	-75.5	Pass	
0	0.127	8.8	25.9	50.2	0.0	33.1	105.5	-72.4	Pass	
90	0.127	5.8	25.9	50.2	0.0	30.1	105.5	-75.4	Pass	
0	0.4	13.7	25.8	48.6	0.1	36.6	95.5	-58.9	Pass	
Table Result: Pass by -58.9 dB							Worst Freq: 0.4 MHz			
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053			
Analyzer: Rental SA#1			Preamp: Red				Antenna: Lg Loop			
CSsoft Radiated Emissions Calculator			v 1.017.185							
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor										
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Radiated Emissions Table

Date: 27-Mar-17			Company: Stack-on Products Company				Work Order: Q3665					
Engineer: Chris Bramley			EUT Desc: PC-1702-RFID				EUT Operating Voltage/Frequency: Battery					
Temp: 24.4°C			Humidity: 27%		Pressure: 1008mBar							
Frequency Range: 1-30MHz							Measurement Distance: 3 m					
Notes: EUT in Z-Orientation							EUT Tx Freq: 125kHz					
Antenna Polarization (0° - 90°)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)				FCC 15.209		
										Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
90	7.38	14.7	25.4	41.6	0.2	31.1				62.9	-31.8	Pass
0	21.9	14.4	25.3	37.5	0.4	27.0				40.0	-13.0	Pass
Table Result: Pass by -13.0 dB Worst Freq: 21.9 MHz												
Test Site: EMI Chamber 2			Cable 1: Asset #2052				Cable 2: Asset #2053					
Analyzer: Rental SA#1			Preamp: Red				Antenna: Sm Loop (high)					
CSsoft Radiated Emissions Calculator			v 1.017.185									
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												
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Rev. 3/27/2017

Spectrum Analyzers / Receivers / Preselectors	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental EXA Signal Analyzer(1199509)	9KHz-26.5GHz	N9010A-526;R	AT	SG53470118	1199509	I	1/27/2018	1/27/2017
Radiated Emissions Sites	FCC Code	IC Code	VCCI Code	Range	Asset	Cat	Calibration Due	Calibrated on
EMI Chamber 2	719150	2762A-7	A-0015	30-1000MHz	1686	II	12/21/2018	12/21/2016
Preamps / Couplers Attenuators / Filters	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red	0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	1/28/2018	1/28/2017
Antennas	Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Small Loop	10kHz-30MHz	PLA-130/A	ARA	1024	755	I	6/14/2018	6/14/2016
Meteorological Meters		MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)		BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2078		HTC-1	HDE		2078	II	3/23/2018	3/23/2017
Cables	Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2052	9kHz - 18GHz		Florida RF			II	3/5/2018	3/5/2017
Asset #2053	9kHz - 18GHz		Florida RF			II	10/1/2017	10/30/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

Radiated Emissions Table

Date: 28-Feb-17			Company: Stack-On Products Company				Work Order: Q3665					
Engineer: Nirak So			EUT Desc: PC-1702-RFID				EUT Operating Voltage/Frequency: battery					
Temp: 25°C			Humidity: 30%		Pressure: 1000 mBar							
Frequency Range: 30 to 1000MHz							Measurement Distance: 3 m					
Notes: All 3 orientations of EUT were investigated; only the worst case recorded.							EUT Tx Freq: 0.125MHz					
							EUT Max Freq: 6 MHz (Associated circuitry)					
Antenna Polarization (H / V)	Frequency (MHz)	Reading (dBμV)	Preamp Factor (dB)	Antenna Factor (dB/m)	Cable Factor (dB)	Adjusted Reading (dBμV/m)	---			FCC 15.209		
							Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)	Limit (dBμV/m)	Margin (dB)	Result (Pass/Fail)
Quazi Peak (V)	162.4	36.7	25.3	12.4	0.8	24.6				43.5	-18.9	Pass
Quazi Peak (V)	218.0	36.0	25.1	10.8	0.9	22.6				46.0	-23.4	Pass
Quazi Peak (V)	363.64	41.2	24.6	14.9	1.1	32.6				46.0	-13.4	Pass
Quazi Peak (H)	367.56	30.1	24.6	15.0	1.1	21.6				46.0	-24.4	Pass
Quazi Peak (H)	377.2	43.2	24.7	15.1	1.1	34.7				46.0	-11.3	Pass
Peak (H)	466.365	36.8	25.5	17.3	1.4	30.0				46.0	-16.0	Pass
Quazi Peak (H)	553.8	30.1	25.5	18.3	1.3	24.2				46.0	-21.8	Pass
Quazi Peak (V)	612.9	32.5	24.7	18.9	1.7	28.4				46.0	-17.6	Pass
Quazi Peak (H)	630.0	38.0	24.8	19.5	1.7	34.4				46.0	-11.6	Pass
Quazi Peak (V)	824.43	29.2	25.4	21.7	1.9	27.4				46.0	-18.6	Pass
Table Result: Pass							by -11.3 dB		Worst Freq: 377.2 MHz			
Test Site: EMI Chamber 2			Cable 1: Asset #2053				Cable 2: Asset #2052			Cable 3: ---		
Analyzer: Rental EXA SA			Preamp: Red				Antenna: Red-White			Preselector: ---		
CSsoft Radiated Emissions Calculator v 1.017.183							Copyright Curtis-Straus LLC 2000					
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor												



Rev. 2/26/2017

Spectrum Analyzers / Receivers / Preselectors
Rental EXA Signal Analyzer(1199509)**Range**
9KHz-26.5GHz **MN**
N9010A-526;R**Mfr**
AT**SN**
SG53470118 **Asset**
1199509**Cat**
I**Calibration Due**
1/27/2018**Calibrated on**
1/27/2017**Radiated Emissions Sites**
EMI Chamber 2**FCC Code**
719150 **IC Code**
2762A-7**VCCI Code**
A-0015**Range**
30-1000MHz**Cat**
II**Calibration Due**
3/22/2017**Calibrated on**
3/22/2015**Preamps / Couplers Attenuators / Filters**
Red**Range**
0.009-2000MHz **MN**
ZFL-1000-LN**Mfr**
CS**SN**
N/A **Asset**
798**Cat**
II**Calibration Due**
1/28/2018**Calibrated on**
1/28/2017**Antennas**
Red-White Bilog**Range**
30-2000MHz**MN**
JB1**Mfr**
Sunol**SN**
A091604-1**Asset**
1105**Cat**
I**Calibration Due**
8/12/2017**Calibrated on**
8/12/2015**Meteorological Meters**
Weather Clock (Pressure Only)
TH A#2081**MN**
BA928
HTC-1**Mfr**
Oregon Scientific
HDE**SN**
C3166-1**Asset**
831
2081**Cat**
I
II**Calibration Due**
4/28/2018
4/5/2017**Calibrated on**
4/28/2016
4/5/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.

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Cert. No. 16027-01

Occupied Bandwidth

Requirement: When an occupied bandwidth is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is its 99% emission bandwidth, as calculated or measured.

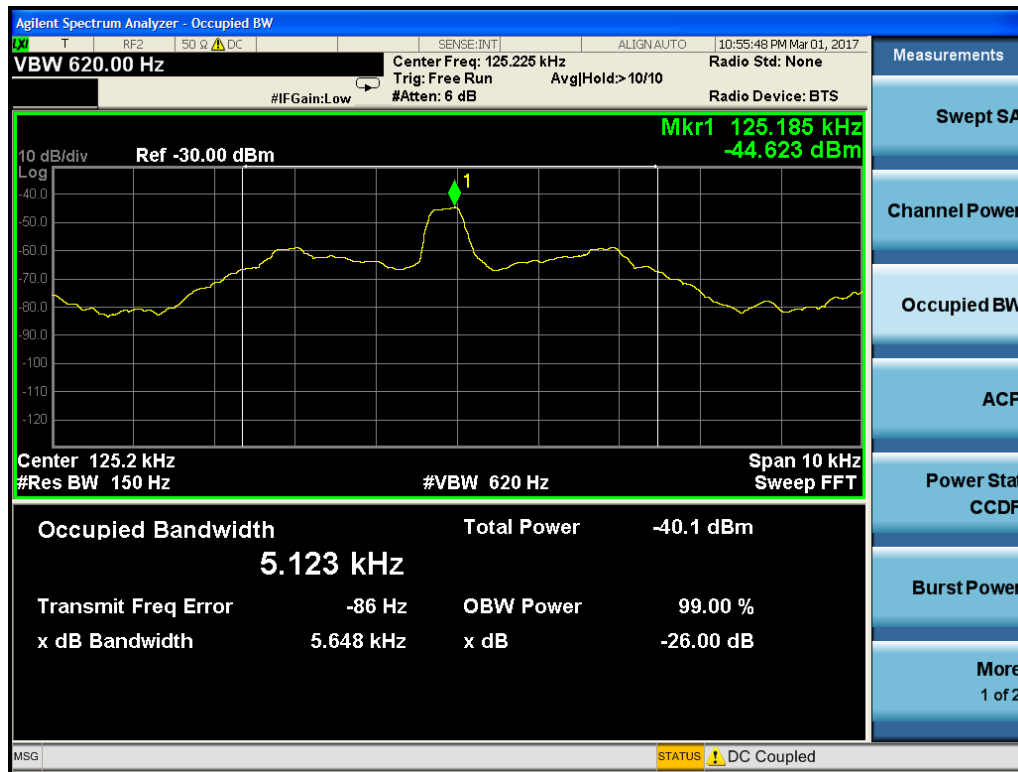
[RSS-GEN 6.6]

MEASUREMENTS / RESULTS

Radiated Emissions Table - Occupied Bandwidth									
Date: 01-Mar-17		Company: Stack-on Products Company					Work Order: Q3665		
Engineer: Chris Bramley		EUT Desc: PC-1702-RFID					EUT Operating Voltage/Frequency: Battery		
Temp: 23°C		Humidity: 37%			Pressure: 985mBar				
Frequency Range: Fundamental					Measurement Distance: 3 m				
Notes: EUT in Z-Orientation					EUT Tx Freq: 125kHz				
Antenna Polarization (0° - 90°)	Frequency (MHz)	Occupied Bandwidth (KHz)							
0	0.125	5.123							
Table Result:		by			dB		Worst Freq:		0.125 MHz
Test Site: EMI Chamber 2		Cable 1: Asset #2052			Cable 2: Asset #2053				
Analyzer: Rental SA#1		Preamp: Red			Antenna: Lg Loop				
CSsoft Radiated Emissions Calculator v 1.017.185					Copyright Curtis-Straus LLC 2000				
Adjusted Reading = Reading - Preamp Factor + Antenna Factor + Cable Factor									
Rev. 3/27/2017									
Spectrum Analyzers / Receivers / Preselectors		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Rental EXA Signal Analyzer(1199509)		9KHz-26.5GHz	N9010A-526;R	AT	SG53470118	1199509	I	1/27/2018	1/27/2017
Radiated Emissions Sites		FCC Code	IC Code	VCCI Code	Range	Asset	Cat	Calibration Due	Calibrated on
EMI Chamber 2		719150	2762A-7	A-0015	30-1000MHz	1686	II	12/21/2018	12/21/2016
Preamps / Couplers Attenuators / Filters		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Red		0.009-2000MHz	ZFL-1000-LN	CS	N/A	798	II	1/28/2018	1/28/2017
Antennas		Range	MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Large Loop		20Hz-5MHz	6511	EMCO	9704-1154	67	I	6/14/2018	6/14/2016
Meteorological Meters			MN	Mfr	SN	Asset	Cat	Calibration Due	Calibrated on
Weather Clock (Pressure Only)			BA928	Oregon Scientific	C3166-1	831	I	4/28/2018	4/28/2016
TH A#2078			HTC-1	HDE		2078	II	3/23/2018	3/23/2017
Cables		Range		Mfr			Cat	Calibration Due	Calibrated on
Asset #2052		9kHz - 18GHz		Florida RF			II	3/5/2018	3/5/2017
Asset #2053		9kHz - 18GHz		Florida RF			II	10/1/3017	10/30/2016

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.





99% Occupied Bandwidth

Measurement Uncertainty

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Expanded Uncertainty k=2	Maximum allowable uncertainty
Radiated Emissions (30-1000MHz)		
NIST	5.6dB	N/A
CISPR	4.6dB	5.2dB (Ucisprr)
Radiated Emissions (1-26.5GHz)	4.6dB	N/A
Radiated Emissions (above 26.5GHz)	4.9dB	N/A
Magnetic Radiated Emissions	5.6dB	N/A
Conducted Emissions		
NIST	3.9dB	N/A
CISPR	3.6dB	3.6dB (Ucisprr)
Telco Conducted Emissions (Current)	2.9dB	N/A
Telco Conducted Emissions (Voltage)	4.4dB	N/A
Electrostatic Discharge	11.5%	N/A
Radiated RF Immunity (Uniform Field)	1.6dB	N/A
Electrical Fast Transients	23.1%	N/A
Surge	23.1%	N/A
Conducted RF Immunity	3dB	N/A
Magnetic Immunity	12.8%	N/A
Dips and Interrupts	2.3V	N/A
Harmonics	3.5%	N/A
Flicker	3.5%	N/A
Radio frequency (@ 2.4GHz)	3.23×10^{-8}	1×10^{-7}
RF power, conducted	0.40dB	0.75dB
Maximum frequency deviation:		
• Within 300Hz and 6kHz of audio frequency / Within 6kHz and 25kHz of audio frequency	3.4% 0.3dB	5% 3dB
Adjacent channel power	1.9dB	3dB
Conducted spurious emission of transmitter, valid up to 12.75GHz	2.39dB	3dB
Conducted emission of receivers	1.3dB	3dB
Radiated emission of transmitter, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of transmitter, valid up to 80GHz	3.3dB	6dB
Radiated emission of receiver, valid up to 26.5GHz	3.9dB	6dB
Radiated emission of receiver, valid up to 80GHz	3.3dB	6dB
Humidity	2.37%	5%
Temperature	0.7°C	1.0°C
Time	4.1%	10%
RF Power Density, Conducted	0.4dB	3dB
DC and low frequency voltages	1.3%	3%
Voltage (AC, <10kHz)	1.3%	2%
Voltage (DC)	0.62%	1%
The above reflects a 95% confidence level		



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Conditions Of Testing

[Bureau Veritas Consumer Products Services, Inc., a Massachusetts corporation], and/or its affiliates (collectively, the "Company") will conduct, at the request of the Submitter ("Client"), the tests specified on the submitted Test Request Form or equivalent in accordance with, and subject to, the following terms and conditions (collectively, "Conditions"):

1. All orders for tests are subject to acceptance by the Company, and no order will constitute a binding commitment of the Company unless and until such order is accepted by it, as evidenced by the issuance of a written report ("Test Report") by the Company. The Test Report is issued solely by the Company, is intended for the exclusive use of Client and shall not be published, used for advertising purposes, copied or replicated for distribution to any other person or entity or otherwise publicly disclosed without the prior written consent of the Company. By submitting a request for services to the Company, Client consents to the disclosure to accreditation bodies of those records of Client relevant to the accreditation body's assessment of the Company's competence and compliance with relevant accreditation criteria. The Company shall not be liable for any loss or damage whatsoever resulting from the failure of the Company to provide its services within any time period for completion estimated by the Company. If Client anticipates using the Test Report in any legal proceeding, arbitration, dispute resolution forum or other proceeding, it shall so notify the Company prior to submitting the Test Report in such proceeding. The Company has no obligation to provide a fact or expert witness at such proceeding unless the Company agrees in advance to do so for a separate and additional fee.
2. The Test Report will set forth the findings of the Company solely with respect to the test samples identified therein. Unless specifically and expressly indicated in the Test Report, the results set forth in such Test Report are not intended to be indicative or representative of the quality or characteristics of the lot from which a test sample is taken, and Client shall not rely upon the Test Report as being so indicative or representative of the lot or of the tested product in general. The Test Report will reflect the findings of the Company at the time of testing only, and the Company shall have no obligation to update the Test Report after its issuance. The Test Report will set forth the results of the tests performed by the Company based upon the written information provided to the Company. The Test Report will be based solely on the samples and written information submitted to the Company by Client, and the Company shall not be obligated to conduct any independent investigation or inquiry with respect thereto.
3. The Company may, in its sole discretion, destroy samples which have been furnished to the Company for testing and which have not been destroyed in the course of testing. The Company may delegate the performance of all or a portion of the services contemplated hereunder to an affiliate, agent or subcontractor of the Company, and Client consents to such delegation.
4. These Conditions and the Test Report represent the entire understanding of the parties hereto with respect to the subject matter hereof and of the Test Report, and no modification, variance or extrapolation with respect thereto shall be permitted without the prior written consent of the Company.
5. The names, service marks, trademarks and copyrights of the Company and its affiliates, including the names "BUREAU VERITAS," "BUREAU VERITAS CONSUMER PRODUCTS SERVICES," "BVCPS," "MTL," "ACTS," "MTL-ACTS" and "CURTIS-STRAUS" (collectively, the "Marks") are and shall remain the sole property of the Company or its affiliates and shall not be used by Client except solely to the extent that Client obtains the prior written approval of the Company and then only in the manner prescribed by the Company. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of the Company or its affiliates.
6. Payment in full shall be due 30 days after the date of invoice. Interest shall be due on overdue amounts from the due date until paid at an interest rate of 1.5% per month or, if less, the maximum rate permitted by law. The Company reserves the right, at any time and from time to time, to revoke any credit extended to Client. Client shall reimburse the Company for any costs it incurs in collecting past due amounts, including court costs and fees and expenses of attorneys and collection agencies. The Test Report may not be used or relied upon by Client if and for so long as Client fails to pay when due any invoice issued by the Company or any affiliate of it to Client or any affiliate or subsidiary of Client together with interest and penalties, if any, accrued thereon.
7. The Company disclaims any and all responsibility or liability arising out of or in connection with e-mail transmissions of such information.
8. Client understands and agrees that the Company is neither an insurer nor a guarantor, that the Company does not take the place of Client or any designer, manufacturer, agent, buyer, distributor or transportation or shipping company, and that the Company disclaims all liability in such capacities. Client further understands that if it seeks assurance against loss or damage, it should obtain appropriate insurance.
9. Client agrees that the Company, by providing the services, does not take the place of Client nor any third party, nor does the Company release them from any of their obligations, nor does the Company otherwise assume, abridge, abrogate or undertake to discharge any duty of any third party to Client or any duty of Client or any third party to any other third party, and Client will not release any third party from its obligations and duties with respect to the tested goods.
10. Client shall, on a timely basis, (a) provide adequate instructions to the Company in order to enable the Company to perform properly its services, (b) provide, or cause Client's suppliers and contractors to provide, the Company with all documents necessary to enable the Company to perform its services, (c) furnish the Company with all relevant information regarding Client's intended use and purposes of the tested goods, (d) advise the Company of essential dates and deadlines relevant to the tested goods and (e) fully exercise all rights and remedies available to Client against third parties in respect of the tested goods.
11. The Company shall undertake due care and ordinary skill in the performance of its services to Client, and the Company shall accept responsibility only where such skill has not been exercised and, even in such event, only to the extent of the limitation of liability set forth herein.
12. If Client desires to assert a claim arising from or relating to (i) the performance, purported performance or non-performance of any services by the Company or (ii) the sale, resale, manufacture, distribution or use of any tested goods, it must submit that claim to the Company in a writing that sets forth with particularity the basis for such claim within 60 days from discovery of the potential claim and not more than six months after the date of issuance of the Test Report to Client. Client waives any and all such claims including, without limitation, claims that the Test Report is inaccurate, incomplete or misleading or that additional or different testing is required, unless and then only to the extent that Client submits a written claim to the Company within both such time periods.
13. CLIENT SHALL, EXCEPT TO THE EXTENT OF COMPANY'S LIABILITY TO CLIENT HEREUNDER (WHICH IN NO EVENT SHALL EXCEED THE LIMITATION OF LIABILITY HEREIN), HOLD HARMLESS AND INDEMNIFY THE COMPANY, ITS AFFILIATES AND THEIR RESPECTIVE DIRECTORS, OFFICERS, EMPLOYEES, AGENTS AND SUBCONTRACTORS AGAINST



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ALL ACTUAL OR ALLEGED THIRD PARTY CLAIMS FOR LOSS, DAMAGE OR EXPENSE OF WHATSOEVER NATURE AND HOWSOEVER ARISING FROM OR RELATING TO (i) THE PERFORMANCE, PURPORTED PERFORMANCE OR NON-PERFORMANCE OF ANY SERVICES BY THE COMPANY OR (ii) THE SALE, RESALE, MANUFACTURE, DISTRIBUTION OR USE OF ANY TESTED GOODS.

14. EXCEPT AS MAY OTHERWISE BE EXPRESSLY AGREED TO IN WRITING BY THE COMPANY AND NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN OR IN ANY TEST REPORT, NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, IS MADE.

15. (A) IN NO EVENT WHATSOEVER SHALL THE COMPANY BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, INCIDENTAL, EXEMPLARY OR PUNITIVE DAMAGES IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE TEST REPORT OR THE SERVICES PROVIDED BY THE COMPANY HEREUNDER, INCLUDING WITHOUT LIMITATION LOSS OF OR DAMAGE TO PROPERTY; LOSS OF INCOME, PROFIT OR USE; OR ANY CLAIMS OR DEMANDS MADE AGAINST CLIENT OR ANY OTHER PERSON BY ANY THIRD PARTY IN CONNECTION WITH, RELATING TO OR ARISING OUT OF THE SERVICES PROVIDED BY THE COMPANY HEREUNDER.

(B) NOTWITHSTANDING ANY PROVISION TO THE CONTRARY CONTAINED HEREIN, AND IN RECOGNITION OF THE RELATIVE RISKS AND BENEFITS TO CLIENT AND THE COMPANY ASSOCIATED WITH THE TESTING SERVICES CONTEMPLATED HEREBY, THE RISKS HAVE BEEN ALLOCATED SUCH THAT UNDER NO CIRCUMSTANCES WHATSOEVER SHALL THE LIABILITY OF THE COMPANY TO CLIENT OR ANY THIRD PARTY IN RESPECT OF ANY CLAIM FOR LOSS, DAMAGE OR EXPENSE, OF WHATSOEVER NATURE OR MAGNITUDE, AND HOWSOEVER ARISING, EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF THE FEES PAID TO THE COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM OR U.S.\$10,000, WHICHEVER IS THE LESSER AMOUNT.

16. The Company shall not be liable for any loss or damage resulting from any delay or failure in performance of its obligations hereunder resulting directly or indirectly from any event of force majeure or any event outside the control of the Company. If any such event occurs, the Company may immediately cancel or suspend its performance hereunder without incurring any liability whatsoever to Client.

17. Company's services, including these Conditions, shall be governed by, and construed in accordance with, the local laws of the country where the Company performs the tests or, in the case of tests performed in the United States of America, the laws of Massachusetts without regard to conflicts of laws principles. If any aspect(s) of these Conditions is found to be illegal or unenforceable, the validity, legality and enforceability of all remaining aspects of these Conditions shall not in any way be affected or impaired thereby. Any proceeding related to the subject matter hereof shall be brought, if at all, in the courts of the country where the Company performs the tests or, in the case of tests performed in the United States of America, in the courts of Massachusetts. Client waives the right to interpose any counterclaim or setoffs of any nature in any litigation arising hereunder.

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