

CERTIFICATION TEST REPORT

Report Number.: 11955389-E1V7

Applicant: Verifone, Inc.

1400 West Stanford Ranch Road

Rocklin, CA 95765, U.S.A.

FCC ID: B32V200T3GDE

IC ID : 787C-V200T3GDE

EUT Description : POINT OF SALE TERMINAL

Model: V200t 3G/D/E

Test Standard(s): FCC CFR47 PART 22 SUBPART H

FCC CFR47 PART 24 SUBPART E INDUSTRY CANADA RSS-132 ISSUE 3

INDUSTRY CANADA RSS-132 ISSUE 6

Date Of Issue:

April 16, 2018

Prepared by:

UL Verification Services Inc. 47173 Benicia Street Fremont, CA 94538, U.S.A.

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	12/15/17	Initial Issue	
		Revised Test Methodology section.	
V2	02/01/18	Revised Scope of Testing section.	Frank Ibrahim
		Revised Test and Measurement Equipment, Section 6.	
V3	03/07/18	Added ERP/EIRP Section	Glenn Escano
	03/13/18	Revised ERP/EIRP and SPURIOUS AND HARMONICS	Glenn Escano
V4		RADIATED TEST RESULTS Section	Gleilli ESCAIIO
\/F	02/14/10	Revised ERP/EIRP Section	Glenn Escano
V5	03/14/18	Revised Scope of Testing Section.	Glefili Escario
V6	03/21/18	Revised Test Methodology section.	Frank Ibrahim
		Revised ERP/EIRP Section	
V7	04/16/18	Revised Scope of Testing Section.	Frank Ibrahim
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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Verifone, Inc.

1400 West Stanford Ranch Road Suite 200

Rocklin, CA 95765, U.S.A.

EUT DESCRIPTION: Point of Sale Terminal

MODEL: V200t 3G/D/E

SERIAL NUMBER: 401-429-133

DATE TESTED: December 02, 2017

APPLICABLE STANDARDS

STANDARD TEST RESULTSFCC PART 22H, 24E

PASS

INDUSTRY CANADA RSS-132,133 PASS

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For

UL Verification Services Inc. By:

FRANK IBRAHIM

CONSUMER TECHNOLOGY DIVISION

OPERATIONS LEADER

UL VERIFICATION SERVICES INC

Prepared By:

GLENN ESCANO

CONSUMER TECHNOLOGY DIVISION

TEST ENGINEER

UL VERIFICATION SERVICES INC

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI/TIA-603-E-2016, ANSI C63.26: 2015, FCC CFR 47 Part 2, FCC KDB 971168 D01 v03, FCC Part 22 and Part 24, RSS-132, RSS-133, and RSS-GEN Issue 4.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A(IC: 2324B-1)	☐ Chamber D(IC: 22541-1)
☐ Chamber B(IC: 2324B-2)	☐ Chamber E(IC: 22541-2)
☐ Chamber C(IC: 2324B-3)	☐ Chamber F(IC: 22541-3)
	☐ Chamber G(IC: 22541-4)
	☐ Chamber H(IC: 22541-5)

The above test sites and facilities are covered under FCC Test Firm Registration # 208313. UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. Chambers A through C are covered under Industry Canada company address code 2324B with site numbers 2324B -1 through 2324B-3, respectively. Chambers D through H are covered under Industry Canada company address code 22541 with site numbers 22541 -1 through 22541-5, respectively.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

EIRP = PSA reading with EUT worst orientation (dBm) + Path loss (dB) – cable loss(between the SG and substitution antenna) + Substitution Antenna Factor (dBi)
ERP = PSA reading with EUT worst orientation (dBm) + Path loss (dB) – cable loss(between the SG and substitution antenna)
(Path loss = Signal generator output – PSA reading with substitution antenna)

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4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Occupied Channel Bandwidth	±1.1 %
RF output power, conducted	±0.35 dB
Power Spectral Density, conducted	±0.39 dB
Unwanted Emissions, conducted	±2.9 dB
All emissions, radiated	±5.36 dB
Temperature	±0.9 °C
Humidity	±2.26% RH
Supply Voltages	±0.45 %
Time	±0.2 %

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

DESCRIPTION OF EUT 5.1.

The EUT is a Point of Sale Terminal which supports the following technologies 850/1900 GSM, WCDMA FDD Band 2, Band 5 and NFC.

5.2. **MAXIMUM OUTPUT ERP/EIRP**

5.2.1. MAXIMUM OUTPUT POWER (GSM)

The transmitter has a maximum peak ERP / EIRP output power as follows:

	FCC Part 22/24							
Band	Frequency	Modulation	AG	Conducted p	oower (Peak)	ERP/EIRP (Peak)		
Бани	Range (MHz)	Modulation	(dBi)	(dBm)	(mW)	(dBm)	(mW)	
950	824~849	GPRS	0.5	32.40	1737.80	30.75	1188.50	
850	824 849	EGPRS		26.80	478.63	25.15	327.34	
1000	1900 1850~1910	GPRS		28.70	741.31	29.30	851.14	
1900		EGPRS	0.6	24.80	302.00	25.40	346.74	

RSS 132/133								
Band Frequency Range (MHz)	Frequency	Madulation	AG	Conducted p	ower (Peak)	EIRP (Peak)		
	Range (MHz)	Modulation	(dBi)	(dBm)	(mW)	(dBm)	(mW)	
950	850 824~849	GPRS	0.5	31.65	1462.18	32.15	1640.59	
850		EGPRS		26.00	398.11	26.50	446.68	
1900 1850°	1950~1010	GPRS	0.6	28.78	755.09	29.38	866.96	
	1850~1910	EGPRS	0.6	24.80	302.00	25.40	346.74	

5.2.2. MAXIMUM OUTPUT POWER (WCDMA)

The transmitter has a maximum peak ERP / EIRP output power as follows:

	FCC Part 24 & RSS 133								
I Band I .	Frequency	Modulation	AG	Conducted power (Average)		EIRP (Average)			
	Range (MHz)	Moduration	(dBi)	(dBm)	(mW)	(dBm)	(mW)		
Band 2	1850~1910	Rel99	0.6	22.30	169.82	22.90	194.98		
		HSDPA		22.72	187.07	23.32	214.78		
		HSUPA		21.53	142.23	22.13	163.31		

FCC Part 22								
Band Frequency Range (MHz)	Frequency	Madulation	AG	Conducted po	wer (Average)	ERP (Average)		
	Range (MHz)	Modulation	(dBi)	(dBm)	(mW)	(dBm)	(mW)	
Band 5	824~849	Rel99	0.5	22.83	191.87	21.18	131.22	
		HSDPA		21.46	139.96	19.81	95.72	
		HSUPA		21.67	146.89	20.02	100.46	

	RSS 132								
Rand	Frequency	Modulation	AG	Conducted power (Peak)		EIRP (Peak)			
	Range (MHz)	z) Modulation	(dBi)	(dBm)	(mW)	(dBm)	(mW)		
Band 5	824~849	Rel99	0.5	22.83	191.87	23.33	215.28		
		HSDPA		21.46	139.96	21.96	157.04		
		HSUPA		21.67	146.89	22.17	164.82		

5.3. SCOPE OF TESTING

This report covers only radiated emissions portion. For antenna port data refer to report number 11631998-E6V6 (FCC ID: B32V240MPLUS, IC: 787C-V240MPLUS) for model V240m Plus 3GBW as the WWAN module covered by this report is identical to the WWAN module inside model V240m Plus 3GBW with identical output power.

For antenna port data (except ERP/EIRP) refer to report 11632998-E6V6. Due to different antenna gain, ERP/EIRP is provided here for model V200t 3G/D/E.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a printed trace monopole-based antenna with a maximum peak gain as follow:

Frequency (MHz)	Peak Gain (dBi)
GSM850, 824~849MHz	0.5
GSM1900, 1850~1910MHz	0.6
WCDMA Band 2, 1850~1910MHz	0.6
WCDMA Band 5, 824~849	0.5

5.5. WORST-CASE CONFIGURATION AND MODE

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, & Z, and it was determined that X-Axis was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X-Axis.

5.6. SOFTWARE AND FIRMWARE

The operating system software installed during testing was low level firmware and a higher level operating sysem software. The Test utility software installed in the EUT during testing was VOS2 30640xxx.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List						
Description	Manufacturer	Model	Serial Number	FCC ID		
AC Adapter	Verifone	PSA18A-082A	5A00172000141	N/A		

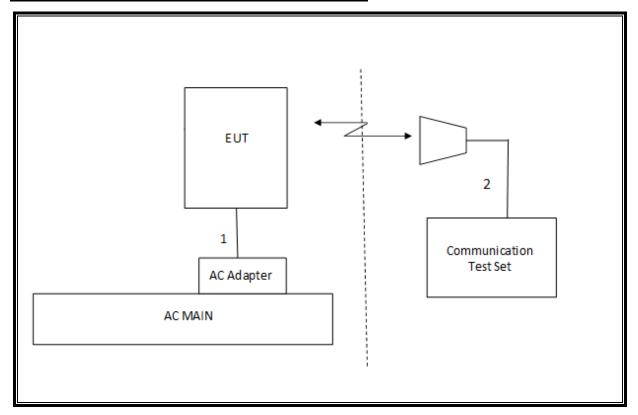
I/O CABLES (RADIATED SETUP)

	I/O Cable List								
Cable No	Port	# of Identical ports	Connector Type	Serial Type	Cable Length (m)	Remarks			
1	DC	1	Round	Un-shielded	1.75m				
2	RF In/out	1	Communication Test Set	Un-shielded	2m				

TEST SETUP

The EUT is continuously communicated to the call box during the tests.

SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

	Test	Equipment List			
Description	Manufacturer	Model	T Number	Cal Date	Cal Due
Amplifier, 1 to 18 GHz	Miteq	AFS43-00101800-25-S- 42	931	06/21/17	06/21/18
Amplifier, 1 to 8 GHz	Miteq	AMF-4D-01000800-30- 29P	1156	02/15/17	02/15/18
Amplifier, 10KHz to 1GHz, 32dB	Keysight	8447D	15	08/14/17	08/14/18
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	899	06/15/17	06/15/18
Horn Antenna	ETS-Lindgren	3117	T712	01/30/17	01/30/18
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	905	01/11/17	01/11/18
Highpass Filter, 2.7 GHz	Micro-Circuits	H2G518G6	T772	07/05/16	07/05/18
Highpass Filter, 1 GHz	Micro-Tronics	HPM18129	T889	02/21/17	02/21/18
Highpass Filter, 4GHz	Micro-Tronics	HPM13351	T1241	07/19/17	07/19/18
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	T956	06/2217	06/22/18

Test Equipment List								
Description	Manufacturer	Model	T Number					
Radiated Software	UL	UL EMC	Ver 9.5, Dec 01, 2015					

7. SPURIOUS AND HARMONICS RADIATED TEST RESULTS

RULE PART(S)

FCC: §2.1053, §22.917 IC: RSS132§5.5; RSS133§6.5

FCC LIMIT

§22.917 (e) and §24.238 (a):

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

RSS132§5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p (watts).

After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least43 + 10 log10 p (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS133§6.5

Equipment shall comply with the limits in (i) and (ii) below.

(i)In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts).

(ii)After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least 43 + 10 log10p(watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

TEST PROCEDURE

For Cellular equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 100 kHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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For PCS equipment - Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 MHz or 1 percent of emission bandwidth, as specified). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

FAX: (510) 661-0888

GSM

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

 Company:
 Verifone

 Project #:
 119553399

 Date:
 12/2/2017

 Test Engineer:
 GE43578

 Configuration:
 EUT + AC Adapter

 Location:
 Chamber C

 Mode:
 GPRS 850 MHz Harmonics

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 82	4.2								
1648.40	-18.2	V	3.0	37.0	1.0	-54.3	-13.0	-41.3	
2472.60	-17.8	٧	3.0	36.4	1.0	-53.3	-13.0	-40.3	
3296.80	-18.7	٧	3.0	36.2	1.0	-53.8	-13.0	-40.8	
1648.40	-18.2	Н	3.0	37.0	1.0	-54.2	-13.0	-41.2	
2472.60	-19.2	Н	3.0	36.4	1.0	-54.6	-13.0	-41.6	
3296.80	-18.4	Н	3.0	36.2	1.0	-53.6	-13.0	-40.6	
Mid Ch, 836	6.6								
1673.20	-17.2	٧	3.0	37.0	1.0	-53.2	-13.0	-40.2	
2509.80	-18.7	٧	3.0	36.4	1.0	-54.2	-13.0	-41.2	
3346.40	-18.2	٧	3.0	36.1	1.0	-53.3	-13.0	-40.3	
1673.20	-16.4	Н	3.0	37.0	1.0	-52.4	-13.0	-39.4	
2509.80	-20.4	Н	3.0	36.4	1.0	-55.9	-13.0	-42.9	
3346.40	-19.2	Н	3.0	36.1	1.0	-54.3	-13.0	-41.3	
High Ch, 84	8.8								
1697.60	-16.8	٧	3.0	37.0	1.0	-52.7	-13.0	-39.7	
2546.40	-13.6	٧	3.0	36.4	1.0	-49.0	-13.0	-36.0	
3395.20	-18.9	٧	3.0	36.1	1.0	-53.9	-13.0	-40.9	
1697.60	-14.1	Н	3.0	37.0	1.0	-50.1	-13.0	-37.1	
2546.40	-15.3	Н	3.0	36.4	1.0	-50.7	-13.0	-37.7	
3395.20	-18.8	Н	3.0	36.1	1.0	-53.8	-13.0	-40.8	

GSM850 GPRS

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

 Company:
 Verifone

 Project #:
 11955389

 Date:
 12/2/2017

 Test Engineer:
 GE43578

 Configuration:
 EUT + AC Adapter

 Location:
 Chamber C

Mode: GPRS 1900 MHz Harmonics

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 18	50.2								
3700.40	-16.5	٧	3.0	35.9	1.0	-51.4	-13.0	-38.4	
5550.60	-14.0	٧	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7400.80	-12.1	٧	3.0	35.7	1.0	-46.8	-13.0	-33.8	
3700.40	-16.5	Н	3.0	35.9	1.0	-51.3	-13.0	-38.3	
5550.60	-13.7	Н	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7400.80	-10.9	Н	3.0	35.7	1.0	-45.7	-13.0	-32.7	
Mid Ch, 188	30								
3760.00	-18.5	V	3.0	35.8	1.0	-53.3	-13.0	-40.3	
5640.00	-13.3	٧	3.0	35.5	1.0	-47.8	-13.0	-34.8	
7520.00	-11.6	٧	3.0	35.7	1.0	-46.3	-13.0	-33.3	
3760.00	-17.3	Н	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5640.00	-12.5	Н	3.0	35.5	1.0	-47.0	-13.0	-34.0	
7520.00	-11.3	Н	3.0	35.7	1.0	-46.0	-13.0	-33.0	
High Ch, 19	009.8								
3819.60	-16.6	V	3.0	35.8	1.0	-51.3	-13.0	-38.3	
5729.40	-13.4	V	3.0	35.5	1.0	-47.9	-13.0	-34.9	
7639.20	-11.9	٧	3.0	35.8	1.0	-46.7	-13.0	-33.7	
3819.60	-15.8	Н	3.0	35.8	1.0	-50.6	-13.0	-37.6	
5729.40	-12.1	Н	3.0	35.5	1.0	-46.6	-13.0	-33.6	
7639.20	-10.2	Н	3.0	35.8	1.0	-44.9	-13.0	-31.9	

GSM 1900 GPRS

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Compliance Certification Services Above 1GHz High Frequency Substitution Measurement

 Company:
 Verifone

 Project #:
 11955389

 Date:
 12/2/2017

 Test Engineer:
 GE43578

 Configuration:
 EUT + AC Adapter

 Location:
 Chamber C

Mode: EGPRS 850 MHz Harmonics

T .	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
ow Ch, 82	4.2								
1648.40	-24.2	٧	3.0	37.0	1.0	-60.2	-13.0	-47.2	
2472.60	-20.9	٧	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3296.80	-18.5	V	3.0	36.2	1.0	-53.7	-13.0	-40.7	
1648.40	-23.7	Н	3.0	37.0	1.0	-59.7	-13.0	-46.7	
2472.60	-21.9	Н	3.0	36.4	1.0	-57.4	-13.0	-44.4	
3296.80	-19.6	Н	3.0	36.2	1.0	-54.7	-13.0	-41.7	
Mid Ch, 836	6.6								
673.20	-18.4	V	3.0	37.0	1.0	-54.4	-13.0	-41.4	
2509.80	-20.2	V	3.0	36.4	1.0	-55.6	-13.0	-42.6	
3346.40	-17.4	V	3.0	36.1	1.0	-52.5	-13.0	-39.5	
1673.20	-23.5	Н	3.0	37.0	1.0	-59.5	-13.0	-46.5	
2509.80	-22.2	Н	3.0	36.4	1.0	-57.7	-13.0	-44.7	
3346.40	-19.4	Н	3.0	36.1	1.0	-54.5	-13.0	-41.5	
ligh Ch, 84	18.8								
1697.60	-20.7	V	3.0	37.0	1.0	-56.7	-13.0	-43.7	
2546.40	-20.3	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
3395.20	-19.3	V	3.0	36.1	1.0	-54.4	-13.0	-41.4	
1697.60	-17.6	Н	3.0	37.0	1.0	-53.5	-13.0	-40.5	
2546.40	-22.4	Н	3.0	36.4	1.0	-57.8	-13.0	-44.8	
3395.20	-19.1	Н	3.0	36.1	1.0	-54.2	-13.0	-41.2	

GSM850 EGPRS

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

 Company:
 Verifone

 Project #:
 1195389

 Date:
 12/2/2017

 Test Engineer:
 GE43578

 Configuration:
 EUT + AC Adapter

 Location:
 Chamber C

Location: Chamber C
Mode: EGPRS 1900 MHz Harmonics

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
_ow Ch, 18	50.2								
3700.40	-17.4	V	3.0	35.9	1.0	-52.3	-13.0	-39.3	
5550.60	-12.5	V	3.0	35.5	1.0	-47.0	-13.0	-34.0	
7400.80	-11.8	V	3.0	35.7	1.0	-46.5	-13.0	-33.5	
3700.40	-16.8	Н	3.0	35.9	1.0	-51.6	-13.0	-38.6	
5550.60	-12.2	Н	3.0	35.5	1.0	-46.6	-13.0	-33.6	
7400.80	-11.1	Н	3.0	35.7	1.0	-45.8	-13.0	-32.8	
Mid Ch, 18	80								
3760.00	-17.0	V	3.0	35.8	1.0	-51.8	-13.0	-38.8	
5640.00	-14.0	V	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7520.00	-13.5	V	3.0	35.7	1.0	-48.2	-13.0	-35.2	
3760.00	-17.2	Н	3.0	35.8	1.0	-52.0	-13.0	-39.0	
5640.00	-14.0	Н	3.0	35.5	1.0	-48.5	-13.0	-35.5	
7520.00	-11.6	Н	3.0	35.7	1.0	-46.4	-13.0	-33.4	
High Ch, 19	909.8								
3819.60	-16.5	٧	3.0	35.8	1.0	-51.2	-13.0	-38.2	
5729.40	-13.1	V	3.0	35.5	1.0	-47.6	-13.0	-34.6	
7639.20	-12.4	V	3.0	35.8	1.0	-47.1	-13.0	-34.1	
3819.60	-17.3	Н	3.0	35.8	1.0	-52.1	-13.0	-39.1	
5729.40	-13.0	Н	3.0	35.5	1.0	-47.5	-13.0	-34.5	
7639.20	-11.3	Н	3.0	35.8	1.0	-46.1	-13.0	-33.1	

GSM 1900 EGPRS

WCDMA

Compliance Certification Services
Above 1GHz High Frequency Substitution Measurement

Company: Project #: Verifone 11955389 12/2/2017 Date: Test Engineer: GE43578 Configuration: EUT + AC Adapter Location: Chamber C HSDPA Band 2 Harmonics Mode:

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
Low Ch, 18	52.4	(- /							
3704.80	-12.0	V	3.0	35.9	1.0	-46.8	-13.0	-33.8	
5557.20	-12.7	٧	3.0	35.5	1.0	-47.2	-13.0	-34.2	
7409.60	-11.6	V	3.0	35.7	1.0	-46.4	-13.0	-33.4	
3704.80	-11.7	Н	3.0	35.9	1.0	-46.5	-13.0	-33.5	
5557.20	-12.2	Н	3.0	35.5	1.0	-46.7	-13.0	-33.7	
7409.60	-10.6	Н	3.0	35.7	1.0	-45.4	-13.0	-32.4	
Mid Ch, 188	30								
3760.00	-15.0	V	3.0	35.8	1.0	-49.8	-13.0	-36.8	
5640.00	-13.0	٧	3.0	35.5	1.0	-47.5	-13.0	-34.5	
7520.00	-12.3	٧	3.0	35.7	1.0	-47.0	-13.0	-34.0	
3760.00	-14.8	Н	3.0	35.8	1.0	-49.6	-13.0	-36.6	
5640.00	-11.3	Н	3.0	35.5	1.0	-45.8	-13.0	-32.8	
7520.00	-10.9	Н	3.0	35.7	1.0	-45.6	-13.0	-32.6	
High Ch, 19	907.6								
3815.20	-6.6	٧	3.0	35.8	1.0	-41.3	-13.0	-28.3	
5722.80	-12.7	٧	3.0	35.5	1.0	-47.2	-13.0	-34.2	
7630.40	-11.1	٧	3.0	35.8	1.0	-45.8	-13.0	-32.8	
3815.20	-10.5	Н	3.0	35.8	1.0	-45.2	-13.0	-32.2	
5722.80	-12.8	Н	3.0	35.5	1.0	-47.3	-13.0	-34.3	
7630.40	-11.5	Н	3.0	35.8	1.0	-46.2	-13.0	-33.2	
1									

B2 HSDPA

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company: Verifone Project #: 11955389 12/2/2017 GE43578 Date: Test Engineer: Configuration: EUT + AC Adapter Location: Chamber C Mode: HSDPA Band 5 Harmonics

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
ow Ch, 82	26.4								
1652.80	-15.0	V	3.0	37.0	1.0	-51.0	-13.0	-38.0	
2479.20	-19.6	V	3.0	36.4	1.0	-55.0	-13.0	-42.0	
305.60	-18.8	٧	3.0	36.1	1.0	-53.9	-13.0	-40.9	
652.80	-14.1	Н	3.0	37.0	1.0	-50.1	-13.0	-37.1	
2479.20	-21.4	Н	3.0	36.4	1.0	-56.8	-13.0	-43.8	
305.60	-19.6	Н	3.0	36.1	1.0	-54.8	-13.0	-41.8	
/lid Ch, 83	6.6								
673.20	-12.1	V	3.0	37.0	1.0	-48.1	-13.0	-35.1	
2509.80	-20.4	V	3.0	36.4	1.0	-55.8	-13.0	-42.8	
346.40	-19.3	V	3.0	36.1	1.0	-54.5	-13.0	-41.5	
673.20	-11.5	Н	3.0	37.0	1.0	-47.5	-13.0	-34.5	
509.80	-20.3	Н	3.0	36.4	1.0	-55.7	-13.0	-42.7	
346.40	-18.5	Н	3.0	36.1	1.0	-53.6	-13.0	-40.6	
ligh Ch, 8	46.6								
693.20	-16.9	V	3.0	37.0	1.0	-52.8	-13.0	-39.8	
539.80	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
386.40	-19.0	V	3.0	36.1	1.0	-54.1	-13.0	-41.1	
693.20	-13.1	Н	3.0	37.0	1.0	-49.1	-13.0	-36.1	
539.80	-21.4	Н	3.0	36.4	1.0	-56.9	-13.0	-43.9	
386.40	-19.5	Н	3.0	36.1	1.0	-54.6	-13.0	-41.6	

B5 HSDPA

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Compliance Certification Services Above 1GHz High Frequency Substitution Measurement

Company: Project #: Verifone 11955389 Date: 12/2/2017 Test Engineer: GE43578 Configuration: EUT + AC Adapter Location: Chamber C

Mode: Rel99 Band 2 Harmonics

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
_ow Ch, 18	52.4								
3704.80	-10.8	V	3.0	35.9	1.0	-45.7	-13.0	-32.7	
5557.20	-14.6	٧	3.0	35.5	1.0	-49.1	-13.0	-36.1	
7409.60	-12.0	٧	3.0	35.7	1.0	-46.7	-13.0	-33.7	
3704.80	-12.0	Н	3.0	35.9	1.0	-46.9	-13.0	-33.9	
5557.20	-13.7	Н	3.0	35.5	1.0	-48.2	-13.0	-35.2	
7409.60	-11.8	Н	3.0	35.7	1.0	-46.5	-13.0	-33.5	
Mid Ch, 188	30								
3760.00	-16.4	V	3.0	35.8	1.0	-51.3	-13.0	-38.3	
5640.00	-14.1	V	3.0	35.5	1.0	-48.6	-13.0	-35.6	
7520.00	-10.9	V	3.0	35.7	1.0	-45.7	-13.0	-32.7	
3760.00	-14.9	Н	3.0	35.8	1.0	-49.7	-13.0	-36.7	
5640.00	-13.0	Н	3.0	35.5	1.0	-47.5	-13.0	-34.5	
7520.00	-10.2	Н	3.0	35.7	1.0	-44.9	-13.0	-31.9	
High Ch, 19	07.6								
3815.20	-12.8	V	3.0	35.8	1.0	-47.6	-13.0	-34.6	
5722.80	-13.5	V	3.0	35.5	1.0	-48.0	-13.0	-35.0	
7630.40	-12.7	٧	3.0	35.8	1.0	-47.5	-13.0	-34.5	
3815.20	-12.4	Н	3.0	35.8	1.0	-47.2	-13.0	-34.2	
5722.80	-11.4	Н	3.0	35.5	1.0	-45.9	-13.0	-32.9	
7630.40	-11.0	Н	3.0	35.8	1.0	-45.7	-13.0	-32.7	

B2 REL99

Compliance Certification Services

Above 1GHz High Frequency Substitution Measurement

Company: Project #: Verifone 11955389 Date: 12/2/2017 Test Engineer: GE43578 Configuration: EUT + AC Adapter Location: Chamber C Mode: Rel99 Band 5 Harmonics

f	SG reading	Ant. Pol.	Distance	Preamp	Filter	EIRP	Limit	Delta	Notes
MHz	(dBm)	(H/V)	(m)	(dB)	(dB)	(dBm)	(dBm)	(dB)	
ow Ch, 82	26.4								
1652.80	-15.0	V	3.0	37.0	1.0	-51.0	-13.0	-38.0	
2479.20	-20.9	V	3.0	36.4	1.0	-56.3	-13.0	-43.3	
3305.60	-19.5	V	3.0	36.1	1.0	-54.6	-13.0	-41.6	
1652.80	-16.1	Н	3.0	37.0	1.0	-52.1	-13.0	-39.1	
2479.20	-21.2	Н	3.0	36.4	1.0	-56.6	-13.0	-43.6	
3305.60	-19.1	Н	3.0	36.1	1.0	-54.2	-13.0	-41.2	
Mid Ch, 83	6.6								
1673.20	-12.6	٧	3.0	37.0	1.0	-48.6	-13.0	-35.6	
2509.80	-19.8	V	3.0	36.4	1.0	-55.2	-13.0	-42.2	
3346.40	-18.6	٧	3.0	36.1	1.0	-53.7	-13.0	-40.7	
1673.20	-11.8	Н	3.0	37.0	1.0	-47.8	-13.0	-34.8	
2509.80	-21.0	Н	3.0	36.4	1.0	-56.4	-13.0	-43.4	
3346.40	-18.7	Н	3.0	36.1	1.0	-53.8	-13.0	-40.8	
High Ch, 8	46.6								
1693.20	-16.2	٧	3.0	37.0	1.0	-52.2	-13.0	-39.2	
2539.80	-21.1	V	3.0	36.4	1.0	-56.5	-13.0	-43.5	
3386.40	-19.1	٧	3.0	36.1	1.0	-54.2	-13.0	-41.2	
1693.20	-12.4	Н	3.0	37.0	1.0	-48.3	-13.0	-35.3	
2539.80	-21.3	Н	3.0	36.4	1.0	-56.7	-13.0	-43.7	
3386.40	-19.4	Н	3.0	36.1	1.0	-54.5	-13.0	-41.5	

B5 REL99