

CERTIFICATION TEST REPORT

Report Number.: 11631998-E6V6

Applicant : Verifone, Inc.

1400 West Stanford Ranch Road

Rocklin, CA 95765, USA

FCC ID: B32V240MPLUS

IC ID: 787C- V240MPLUS

EUT Description: MOBILE POINT OF SALE TERMINAL

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

FCC CFR47 PART 24 SUBPART E

INDUSTRY CANADA RSS-132 ISSUE 3 INDUSTRY CANADA RSS-133 ISSUE 6

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Prepared by:

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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	09/18/17	Initial Issue	Frank Ibrahim
V2	09/19/17	Updated sections 5.3 & 7.1	V. Tran
V3	10/04/17	Updated sections 5.2, 5.3 & 7.1	K. Kedida
V4	12/13/17	Updated section 7.1	Frank Ibrahim
V5	01/18/18	Added section 7.1 (Summary Table) and changed ERP to EIRP for ISED line item and revised some sections number for ISED Revised data for GSM850 for ISED	Frank Ibrahim
V6	04/16/18	Added HSUPA	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, USA

EUT DESCRIPTION: Mobile Point of Sale Terminal

MODEL: V240m Plus 3GBW

SERIAL NUMBER: 313-855-587, 313-855-666

DATE TESTED: May 12 to September 12, 2017

APPLICABLE STANDARDS

STANDARD TEST RESULTS
FCC 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.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-D, FCC CFR 47 Part 2, FCC KDB 971168 D01 v02r02, 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 the Mobile Point of Sale Terminal which contains an 11a/b/g/n/ac W-LAN + Bluetooth 4.1 combo module, and GSM/WCDMA radio module.

DESCRIPTION OF AVAILABLE ANTENNAS 5.2.

The radio utilizes a PIFA antenna for the [List the bands supported] with a maximum peak gain as follow:

Frequency (MHz)	Peak Gain (dBi)
GSM850, 824~849MHz	-2.0
GSM1900, 1850~1910MHz	-0.4
WCDMA Band 2, 1850~1910MHz	-0.4
WCDMA Band 5, 824~849	-2.0

5.3. MAXIMUM OUTPUT POWER

5.3.1. MAXIMUM OUTPUT POWER (GSM/EGPRS)

The transmitter has a maximum peak conducted and ERP / EIRP output powers as follows:

FCC Part 22/24							
Band	Frequency		Conducted (Average)		ERP/EIRP (Average)		
ballu	Range(MHz)	Modulation	AVG(dBm)	AVG(mW)	dBm	mW	
850	824~849	GPRS	31.65	1462.18	27.50	562.34	
830	824~849	EGPRS	26.00	398.11	21.85	153.11	
1900	1850~1910	GPRS	28.78	755.09	28.38	688.65	
	1850~1910	EGPRS	24.80	302.00	24.40	275.42	

RSS 132/133							
Dand	Frequency	NA a de da tila tila ta	Conducted	Conducted (Average)		verage)	
Band	Range(MHz)	Modulation	AVG(dBm)	AVG(mW)	dBm	mW	
850	824~849	GPRS	31.65	1462.18	29.65	922.57	
850	824~849	EGPRS	26.00	398.11	24.00	251.19	
1900	1850~1910	GPRS	28.78	755.09	28.38	688.65	
	1850~1910	EGPRS	24.80	302.00	24.40	275.42	

5.3.2. MAXIMUM OUTPUT POWER (WCDMA)

The transmitter has a maximum peak conducted and ERP / EIRP output powers as follows:

FCC Part 24 & RSS 133							
Band	Frequency	Modulation	Conducted (Average) ERP/EIRP (Av		(Average)		
Бапи	Range(MHz)	Moduration	AVG(dBm)	AVG(mW)	dBm	mW	
	1850~1910	REL99	22.30	169.8	21.90	154.9	
Band 2	1850~1910	HSDPA	22.72	187.1	22.32	170.6	
	1850~1910	HSUPA	21.53	142.2	21.13	129.7	

	FCC Part 22 & RSS 132								
Band	Frequency	Conducted (Average)		ERP/EIRP (Average)					
Band	Range(MHz)	Moduration	AVG(dBm)	AVG(mW)	dBm	mW			
	824~849	REL99	22.82	191.4	18.67	73.6			
Band 5	824~849	HSDPA	21.46	140.0	17.31	53.8			
	824~849	HSUPA	21.67	146.9	17.52	56.5			

5.4. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List						
Description Manufacturer Model Serial Number FCC ID						
AC Adapter	Verifone	SC1402	1708200053701	NA		

I/O CABLES (CONDUCTED SETUP)

	I/O Cable List								
Cable No	Port	# of Identical ports	Connector Type	Serial Type	Cable Length (m)	Remarks			
1	RF Out	1	Spectrum Analyzer	Shielded	None	NA			
2	Antenna Port	1	EUT	Shielded	0.1m	NA			
3	RF In/Out	1	Communication Test Set	Shielded	1m	NA			

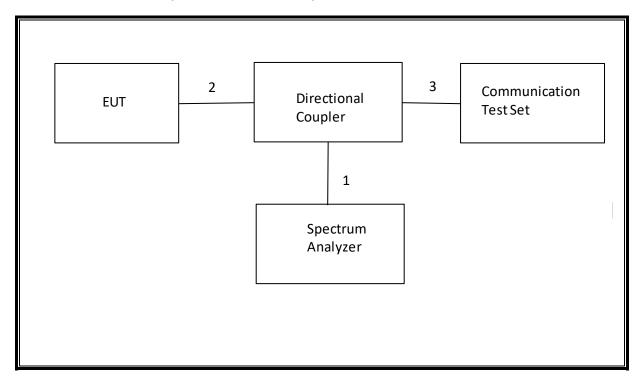
I/O CABLES (RADIATED SETUP)

			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	No
2	RF In/out	1	Communication Test Set	Un-shielded	2m	Yes

TEST SETUP

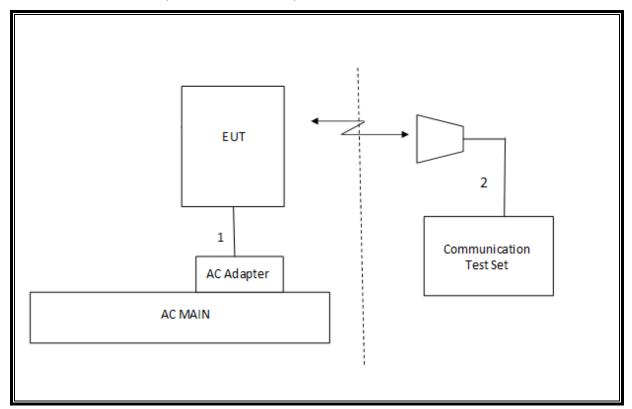
The EUT is continuously communicated to the call box during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



FAX: (510) 661-0888

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	493	02/15/17	02/15/18			
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	10	02/15/17	02/15/18			
Antenna, Broadband Hybrid, 30MHz to 2000MHz	Sunol Sciences	JB3	408	11/10/16	11/10/17			
Horn Antenna	ETS-Lindgren	3117	T712	01/30/17	01/30/18			
Spectrum Analyzer, PXA 3Hz to 44GHz	Keysight	N9030A	907	01/23/17	01/23/18			
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	None	None			
PXA, Signal Analyzer	Agilent Technologies	N9030A	T1931	06/06/17	06/06/18			
DC power supply, 8 V @ 3 A or 15 V @ 2 A	Agilent / HP	E3610A	None	CNR	None			
Antenna, Tuned Dipole 400~1000 MHz	ETS	3121C DB4	T273	06/08/17	06/08/18			
Directional Coupler	Mini-Circuits	ZUDC10-183+	T1136	06/18/17	06/18/18			

Test Equipment List						
Description	Manufacturer	Model	T Number			
Radiated Software	UL	UL EMC	Ver 9.5, June 24, 2015			
Conducted Software	UL	UL EMC	Ver 9.5, May 26, 2015			
CLT Software	UL	UL RF	Ver 1.0, Feb 2, 2015			
Antenna Port Software	UL	UL RF	Ver 3.7, Nov 12, 2015			

7. ANTENNA PORT TEST RESULTS

7.1. SUMMARY TABLE

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result
2.1049	N/A	Occupied Bandwidth (99%)	N/A	Conducted	Pass
22.917(a) 24.238(a)	RSS-132(5.5) RSS-133(6.5)	Band Edge / Conducted Spurious Emission	-13dBm		Pass
2.1046	N/A	Conducted output power	N/A		Pass
22.355 24.235	RSS-132(5.3) RSS-133(6.3)	Frequency Stability	2.5PPM		Pass
22.913(a)(2)	RSS-132 (5.4)	Effective Radiated Power (FCC) Equivalent Isotropic Radiated Power (ISED)	38dBm	Radiated	Pass
24.232(c)	RSS-133(6.4)	Equivalent Isotropic Radiated Power	33dBm		Pass
22.917(a) 24.238(a)	RSS-132(5.5) RSS-133(6.5)	Radiated Spurious Emission	-13dBm		Pass

7.2. RF OUTPUT POWER

TEST PROCEDURE

ANSI C63.26:2015/ TIA / EIA 603-D Clause 2.2.17 KDB 971168 Section 5.6

ERP/EIRP = PMeas + GT - LC

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

MODES TESTED

- GSM 850
- GSM 1900
- WCDMA Band 2
- WCDMA Band 5

7.2.1. GSM/GPRS/EDGE

Using CMW500 Communication Test Set

Function: Menu select > GSM Mobile Station > GSM 850/900/1800/1900

Press Connection control to choose the different menus

Press RESET > choose all to reset all settings

Connection Press Signal Off to turn off the signal and change settings

Network Support > GSM+GPRS or GSM+EGPRS

Main Service > Packet Data

Service selection > Test Mode A - Auto Slot Config. off

MS Signal Press Slot Config bottom on the right twice to select and change the number

of time slots and power setting

> Slot configuration > Uplink/Gamma

> 33 dBm for GPRS 850/900> 27 dBm for EGPRS 850/900> 30 dBm for GPRS1800/1900> 26 dBm for EGPRS1800/1900

BS Signal Enter the same channel number for TCH channel (test channel) and BCCH

channel

Frequency Offset > + 0 Hz

Mode > BCCH and TCH

BCCH Level > -85 dBm (May need to adjust if link is not stable)

BCCH Channel > choose desire test channel [Enter the same channel

number for TCH channel (test channel) and BCCH

channel]

Channel Type > Off P0> 4 dB

Slot Config > Unchanged (if already set under MS Signal)

TCH > choose desired test channel

Hopping > Off

Main Timeslot > 3 (Default)

Network Coding Scheme > CS 4 (GPRS) and MCS5-9 (EGPRS)

Bit Stream > 2E9-1PSR Bit Pattern

AF/RF Enter appropriate offsets for Ext. Att. Output and Ext. Att. Input

Connection Press Signal On to turn on the signal and change settings

GSM OUTPUT POWER RESULT

Tested By	Vanessa Moestopo
Date	5/12/2017

GSM 850 (FCC)

Antenna gain (dBi)		-2.00					
Mode	Ch.	f (MHz)	Modulation	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
	128	824.2		31.65	27.50	38.5	-11.00
	190	836.6	1 Time slot	31.22	27.07	38.5	-11.43
	251	848.8		30.40	26.25	38.5	-12.25
	128	824.2		28.87	24.72	38.5	-13.78
	190	836.6	2 Time slot	28.44	24.29	38.5	-14.21
GPRS	251	848.8		27.71	23.56	38.5	-14.94
GFNS	128	824.2		27.10	22.95	38.5	-15.55
	190	836.6	3 Time slot	26.67	22.52	38.5	-15.98
	251	848.8		25.95	21.80	38.5	-16.70
	128	824.2		25.97	21.82	38.5	-16.68
	190	836.6	4 Time slot	25.53	21.38	38.5	-17.12
	251	848.8		24.80	20.65	38.5	-17.85
	128	824.2		26.00	21.85	38.5	-16.65
	190	836.6	1 Time slot	25.60	21.45	38.5	-17.05
	251	848.8		24.80	20.65	38.5	-17.85
	128	824.2		23.00	18.85	38.5	-19.65
	190	836.6	2 Time slot	22.60	18.45	38.5	-20.05
	251	848.8		21.90	17.75	38.5	-20.75
EGPRS	128	824.2		21.20	17.05	38.5	-21.45
	190	836.6	3 Time slot	20.80	16.65	38.5	-21.85
	251	848.8		20.10	15.95	38.5	-22.55
	128	824.2		20.10	15.95	38.5	-22.55
	190	836.6	4 Time slot	19.60	15.45	38.5	-23.05
	251	848.8		18.90	14.75	38.5	-23.75

GSM 850 (ISED)

Antenna gain (dBi)		-2.00					
Mode	Ch.	f (MHz)	Modulation	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
	128	824.2		31.65	29.65	38.5	-8.85
	190	836.6	1 Time slot	31.22	29.22	38.5	-9.28
	251	848.8		30.40	28.40	38.5	-10.10
	128	824.2		28.87	26.87	38.5	-11.63
	190	836.6	2 Time slot	28.44	26.44	38.5	-12.06
GPRS	251	848.8		27.71	25.71	38.5	-12.79
GPNS	128	824.2		27.10	25.10	38.5	-13.40
	190	836.6	3 Time slot	26.67	24.67	38.5	-13.83
	251	848.8		25.95	23.95	38.5	-14.55
	128	824.2	4 Time slot	25.97	23.97	38.5	-14.53
	190	836.6		25.53	23.53	38.5	-14.97
	251	848.8		24.80	22.80	38.5	-15.70
	128	824.2		26.00	24.00	38.5	-14.50
	190	836.6	1 Time slot	25.60	23.60	38.5	-14.90
	251	848.8		24.80	22.80	38.5	-15.70
	128	824.2		23.00	21.00	38.5	-17.50
	190	836.6	2 Time slot	22.60	20.60	38.5	-17.90
	251	848.8		21.90	19.90	38.5	-18.60
EGPRS	128	824.2		21.20	19.20	38.5	-19.30
	190	836.6	3 Time slot	20.80	18.80	38.5	-19.70
	251	848.8		20.10	18.10	38.5	-20.40
	128	824.2		20.10	18.10	38.5	-20.40
	190	836.6	4 Time slot	19.60	17.60	38.5	-20.90
	251	848.8		18.90	16.90	38.5	-21.60

GSM 1900

Antenna gain (dBi)		-0.40]				
				Conducted	EIRP	EIRP	
Mode	Ch.	f (MHz)	Modulation	Average	Average	Limit	Margin (dB)
				(dBm)	(dBm)	(dBm)	
	512	1850.2		28.78	28.38	33.0	-4.62
	661	1880	1 Time slot	28.64	28.24	33.0	-4.76
	810	1909.8		28.37	27.97	33.0	-5.03
	512	1850.2		25.93	25.53	33.0	-7.47
	661	1880	2 Time slot	25.79	25.39	33.0	-7.61
GPRS	810	1909.8		25.51	25.11	33.0	-7.89
GFKS	512	1850.2		24.17	23.77	33.0	-9.23
	661	1880	3 Time slot	24.00	23.60	33.0	-9.40
	810	1909.8		23.24	22.84	33.0	-10.16
	512	1850.2		22.97	22.57	33.0	-10.43
	661	1880	4 Time slot	22.79	22.39	33.0	-10.61
	810	1909.8		22.53	22.13	33.0	-10.87
	512	1850.2		24.80	24.40	33.0	-8.60
	661	1880	1 Time slot	24.60	24.20	33.0	-8.80
	810	1909.8		24.30	23.90	33.0	-9.10
	512	1850.2		21.80	21.40	33.0	-11.60
	661	1880	2 Time slot	21.60	21.20	33.0	-11.80
	810	1909.8		21.40	21.00	33.0	-12.00
EGPRS	512	1850.2		20.00	19.60	33.0	-13.40
	661	1880	3 Time slot	19.80	19.40	33.0	-13.60
	810	1909.8		19.60	19.20	33.0	-13.80
	512	1850.2		18.90	18.50	33.0	-14.50
	661	1880	4 Time slot	18.70	18.30	33.0	-14.70
	810	1909.8		18.40	18.00	33.0	-15.00

7.2.2. UMTS REL 99

TEST PROCEDURE

Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

The following summary of these settings are illustrated below:

Mode	Subtest	Rel99
	Loopback Mode	Test Mode 2
WCDMA Conoral Sottings	Rel99 RMC	12.2kbps RMC
WCDMA General Settings	Power Control Algorithm	Algorithm2
	βc/βd	8/15

RESULTS

FAX: (510) 661-0888

UMTS REL 99 OUTPUT POWER RESULT

Tested By	Vanessa Moestopo
Date	6/27/2017

Antenna gain Band 5 (dBi)	-2.00
Antenna gain Band 2 (dBi)	-0.40

Part 22 / RSS 132 850MHz Band (5)

Band	UL Channel	DL Channel	Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
UMTS Rel. 99	4132	4357	826.4	22.82	18.67	38.5	-19.8
850MHz	4183	4408	836.6	22.27	18.12	38.5	-20.4
OSUMITZ	4233	4458	846.6	21.75	17.60	38.5	-20.9

Part 24 / RSS 133 1900MHz Band (2)

Band	UL Channel	DL Channel	Frequency (MHz)	Peak Power (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
UMTS Rel. 99	9262	9662	1852.4	22.30	21.90	33.0	-11.1
1900MHz	9400	9800	1880.0	22.10	21.70	33.0	-11.3
I SOUMITZ	9538	9938	1907.6	21.23	20.83	33.0	-12.2

7.2.3. UMTS HSDPA and HSUPA

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS34.121. Summary of settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA			
	Subtest	1	2	3	4			
	Loopback Mode	Test Mode 1						
	Rel99 RMC	12.2kbps RMC						
	HSDPA FRC	H-Set 1						
144 00144	Power Control Algorithm	Algorithm 2						
W-CDMA	βc	2/15	11/15	15/15	15/15			
General Settings	βd	15/15	15/15	8/15	4/15			
Settings	Bd (SF)	64						
	βc/βd	2/15	11/15	15/8	15/4			
	βhs	4/15	24/15	30/15	30/15			
	MPR (dB)	0	0	0.5	0.5			
	D _{ACK}	8						
	D _{NAK}	8						
HSDPA	DCQI	8						
Specific	Ack-Nack repetition factor	3	3					
Settings	CQI Feedback (Table 5.2B.4)	4ms						
	CQI Repetition Factor (Table 5.2B.4)	2		•	•			
	Ahs=βhs/βc	30/15		•	•			

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HSPA (HSDPA & HSUPA) Setup Procedures used to establish the test signals
The following 5 Sub-tests were completed according to Release 6 procedures in table C,11.1.3 of 3GPP TS 34.121-1 v13.

A summary of these settings are illustrated below:

	Mode Mode	HSPA							
	Subtest	1	2	3	4	5			
	Loopback Mode	Test Mode 1	Test Mode 1						
	Rel99 RMC	12.2 kbps RM	12.2 kbps RMC						
	HSDPA FRC	H-Set 1							
	HSUPA Test	HSPA							
	Power Control Algorithm	Algorithm 2				Algorithm 1			
WCDMA	βc	11/15	6/15	15/15	2/15	15/15			
General	βd	15/15	15/15	9/15	15/15	0			
Settings	βес	209/225	12/15	30/15	2/15	5/15			
	βc/βd	11/15	6/15	15/9	2/15	-			
	βhs	22/15	12/15	30/15	4/15	5/15			
	βed	1309/225	94/75	47/15	56/75	47/15			
	CM (dB)	1	3	2	3	1			
	MPR (dB)	0	2	1	2	0			
	DACK	8	•	•		0			
	DNAK	8	0						
HSDPA	DCQI	8	0						
Specific	Ack-Nack repetition factor 3								
Settings	CQI Feedback (Table 5.2B.4) 4ms								
	CQI Repetition Factor (Table 5.2B.4) 2								
	Ahs = βhs/βc	30/15							
	E-DPDCCH	6	8	8	5	0			
	DHARQ	0	0	0	0	0			
	AG Index	20	12	15	17	12			
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	67			
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9			
	Reference E-TFCIs	5	5	2	5	1			
	Reference E-TFCI	11	11	11	11	67			
HSUPA	Reference E-TFCI PO	4	4	4	4	18			
Specific	Reference E-TFCI	67	67	92	67	67			
Settings	Reference E-TFCI PO	18	18	18	18	18			
	Reference E-TFCI	71	71	71	71	71			
	Reference E-TFCI PO	23	23	23	23	23			
	Reference E-TFCI	75	75	75	75	75			
	Reference E-TFCI PO	26	26	26	26	26			
	Reference E-TFCI	81	81	81	81	81			
	Reference E-TFCI PO	27	27	27	27	27			
	Maximum Channelization Codes	2xSF2				SF4			

RESULTS

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UMTS HSDPA OUTPUT POWER RESULT

Antenna gain Band 5 (dBi)	-2.00
Antenna gain Band 2 (dBi)	-0.40

Part 22 / RSS 132 850MHz Band (5)

Band	Subtest	UL Channel	DL Channel	Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
		4132	4357	826.4	21.46	17.31	38.5	-17.0
	1	4183	4408	836.6	20.93	16.78	38.5	-17.6
		4233	4458	846.6	20.42	16.27	38.5	-18.1
	3	4132	4357	826.4	21.43	17.28	38.5	-17.1
UMTS		4183	4408	836.6	20.89	16.74	38.5	-17.6
HSDPA		4233	4458	846.6	20.35	16.20	38.5	-18.2
850MHz		4132	4357	826.4	21.45	17.30	38.5	-17.1
030IVII 12		4183	4408	836.6	20.88	16.73	38.5	-17.6
		4233	4458	846.6	20.64	16.49	38.5	-17.9
	4	4132	4357	826.4	21.45	17.30	38.5	-17.1
		4183	4408	836.6	20.90	16.75	38.5	-17.6
		4233	4458	846.6	20.36	16.21	38.5	-18.1

Part 24 / RSS 133 1900MHz Band (2)

Band	Subtest	UL Channel	DL Channel	Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
		9262	9662	1852.4	22.72	22.32	33.0	-10.3
	1	9400	9800	1880.0	22.65	22.25	33.0	-10.4
		9538	9938	1907.6	21.88	21.48	33.0	-11.1
	2	9262	9662	1852.4	21.88	21.48	33.0	-11.1
UMTS		9400	9800	1880.0	21.72	21.32	33.0	-11.3
HSDPA		9538	9938	1907.6	21.14	20.74	33.0	-11.9
1900MHz		9262	9662	1852.4	21.54	21.14	33.0	-11.5
1 900 WII 12	3	9400	9800	1880.0	21.30	20.90	33.0	-11.7
		9538	9938	1907.6	20.80	20.40	33.0	-12.2
		9262	9662	1852.4	21.35	20.95	33.0	-11.7
	4	9400	9800	1880.0	21.10	20.70	33.0	-11.9
		9538	9938	1907.6	20.58	20.18	33.0	-12.4

UMTS HSUPA OUTPUT POWER RESULT

Antenna gain Band 5 (dBi)	-2.00
Antenna gain Band 2 (dBi)	-0.40

Part 22 / RSS 132 850MHz Band (5)

Band	Subtest	UL Channel	DL Channel	Frequency (MHz)	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
		4132	4357	826.4	21.54	17.39	38.5	-17.0
	1	4183	4408	836.6	21.65	17.50	38.5	-16.9
		4233	4458	846.6	21.67	17.52	38.5	-16.8
		4132	4357	826.4	19.87	15.72	38.5	-18.6
	2	4183	4408	836.6	20.79	16.64	38.5	-17.7
		4233	4458	846.6	20.81	16.66	38.5	-17.7
UMTS	3	4132	4357	826.4	21.42	17.27	38.5	-17.1
HSUPA		4183	4408	836.6	21.52	17.37	38.5	-17.0
850MHz		4233	4458	846.6	21.52	17.37	38.5	-17.0
		4132	4357	826.4	19.87	15.72	38.5	-18.6
	4	4183	4408	836.6	20.79	16.64	38.5	-17.7
		4233	4458	846.6	20.81	16.66	38.5	-17.7
	5	4132	4357	826.4	21.54	17.39	38.5	-17.0
		4183	4408	836.6	21.65	17.50	38.5	-16.9
		4233	4458	846.6	21.67	17.52	38.5	-16.8

Part 24 / RSS 133 1900MHz Band (2)

Band	Subtest	UL Channel	DL Channel	Frequency (MHz)	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
		9262	9662	1852.4	21.53	21.13	33.0	-11.5
	1	9400	9800	1880.0	21.28	20.88	33.0	-11.7
		9538	9938	1907.6	21.00	20.60	33.0	-12.0
		9262	9662	1852.4	20.68	20.28	33.0	-12.3
	2	9400	9800	1880.0	20.44	20.04	33.0	-12.6
		9538	9938	1907.6	19.87	19.47	33.0	-13.1
UMTS		9262	9662	1852.4	21.38	20.98	33.0	-11.6
HSUPA	3	9400	9800	1880.0	21.17	20.77	33.0	-11.8
1900MHz		9538	9938	1907.6	20.56	20.16	33.0	-12.4
		9262	9662	1852.4	20.68	20.28	33.0	-12.3
	4	9400	9800	1880.0	20.44	20.04	33.0	-12.6
		9538	9938	1907.6	19.87	19.47	33.0	-13.1
	_	9262	9662	1852.4	21.50	21.10	33.0	-11.5
	5	9400	9800	1880.0	21.28	20.88	33.0	-11.7
	3	9538	9938	1907.6	21.00	20.60	33.0	-12.0

7.3. PEAK TO AVERAGE RATIO

TEST PROCEDURE

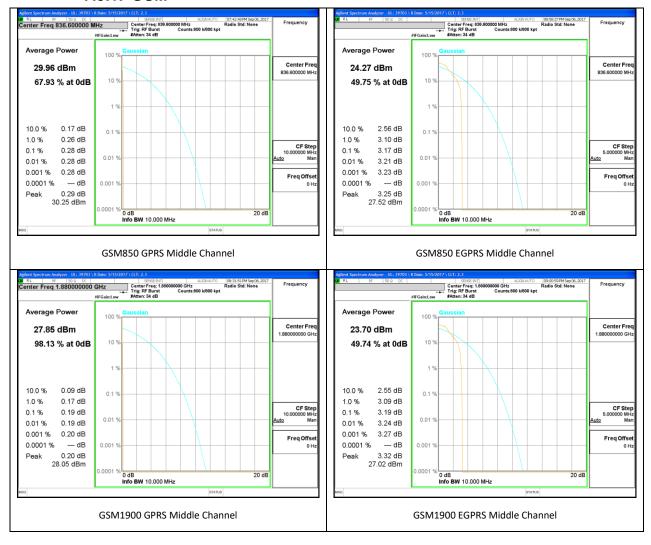
Per KDB 971168 D01 Power Meas License Digital Systems v02r02

TEST SPEC

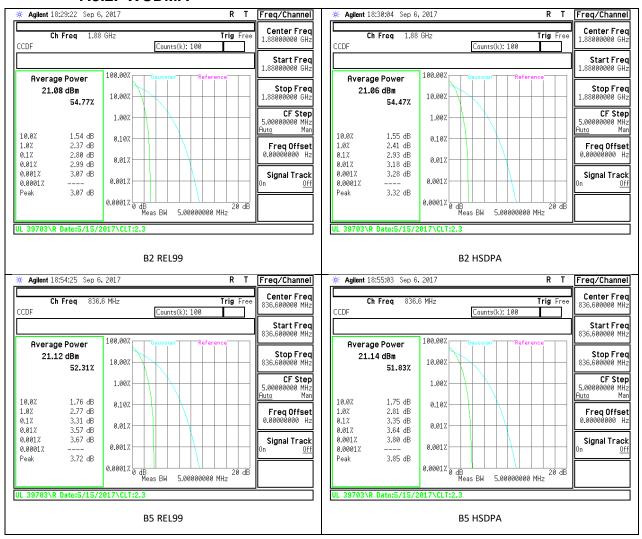
In addition, when the transmitter power is measured in terms of average value, the peak-to-average ratio of the power shall not exceed 13 dB.

CONDUCTED PEAK TO AVERAGE RESULT

7.3.1. GSM



7.3.2. WCDMA



8.1. OCCUPIED BANDWIDTH

RULE PART(S)

FCC: §2.1049 IC: RSS132; RSS133

LIMITS

For reporting purposes only

TEST PROCEDURE

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer. The occupied bandwidth was measured with the spectrum analyzer at the low, middle and high channel in each band. The -26dB bandwidth was also measured and recorded.

(KDB 971168 D01 Power Meas License Digital Systems v02r02)

REPORT NO: 11631998-E6V6 DATE: 4/16/2018 IC ID: 787C- V240MPLUS FCC ID: B32V240MPLUS

OCCUPIED BANDWIDTH RESULTS AND PLOTS

8.1.1. GSM

Band	Mode	Channel	f (MHz)	99% BW (kHz)	-26dB (kHz)
		128	824.2	244.8	316.2
	GPRS	190	836.6	245.1	310.1
GSM 850		251	848.8	238.5	321.5
G31V1 G3G		128	824.2	234.8	302.7
	EGPRS	190	836.6	245.1	317.9
		251	848.8	231.9	286.6
		512	1850.2	246	314.5
	GPRS	661	1880	245.1	315
GSM 1900		810	1909.8	243.1	320.7
33.0.1300		512	1850.2	246.1	305.2
	EGPRS	661	1880	246.9	317.3
		810	1909.8	240.3	301.3



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8.1.2. WCDMA

Band	Mode	Channel	f (MHz)	99% BW (MHz)	-26dB (MHz)
		9262	1852.4	4.07	4.64
	REL99	9400	1880	4.07	4.66
Band 2		9538	1907.6	4.07	4.62
Barra 2		9262	1852.4	4.07	4.62
	HSDPA	9400	1880	4.08	4.6
		9538	1907.6	4.06	4.61
		4132	826.4	4.05	4.57
	REL99	4183	836.6	4.03	4.58
Band 5		4233	846.6	4.04	4.59
Bana 3		4132	826.4	4.05	4.58
	HSDPA	4183	836.6	4.04	4.58
		4233	846.6	4.06	4.63



8.2. BAND EDGE EMISSIONS

RULE PART(S)

FCC: §22.359, §22.917, §24.238 IC: RSS132§5.5; RSS133§6.5

FCC LIMITS

FCC: §22.359, §22.917, §24.238

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

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

The transmitter output was connected to an Agilent 8960 or a CMW500 Test Set and configured to operate at maximum power. The band edge emissions were measured at the required operating frequencies in each band on the Spectrum Analyzer.

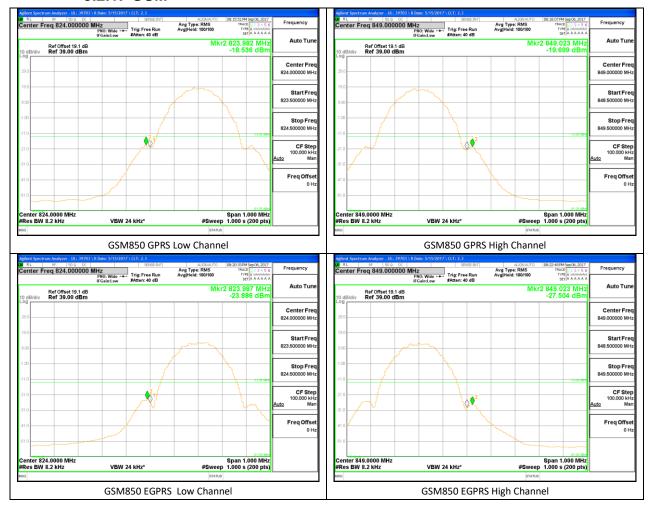
For each band edge measurement:

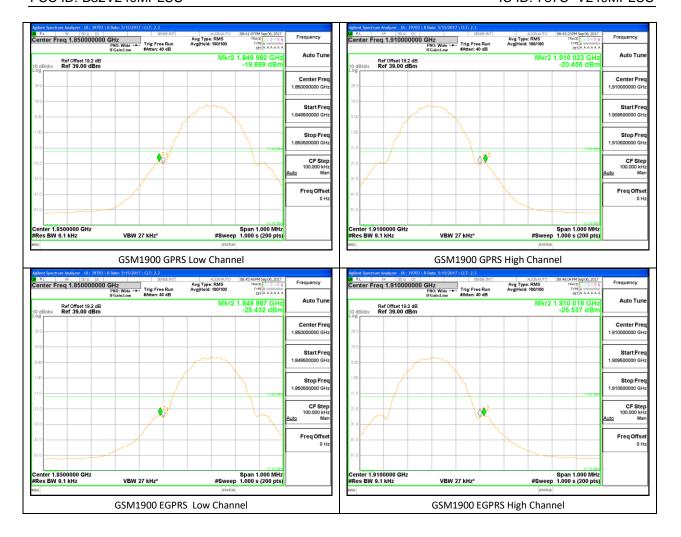
- Set the spectrum analyzer span to include the block edge frequency.
- Set a marker to point the corresponding band edge frequency in each test case.
- Set display line at -13 dBm
- Set resolution bandwidth to at least 1% of emission bandwidth.

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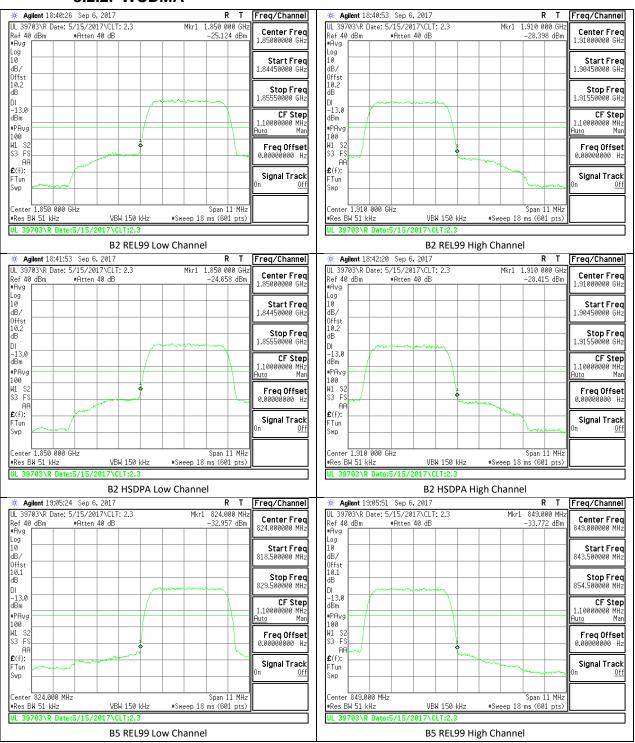
BAND EDGE PLOTS

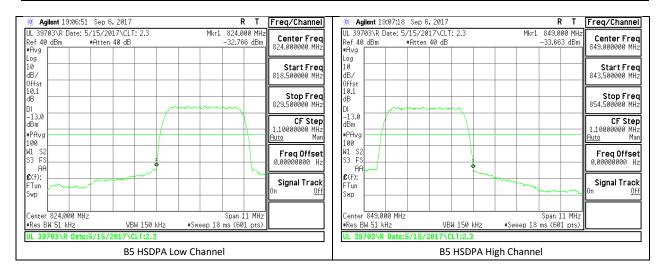
8.2.1. **GSM**





8.2.2. WCDMA





FAX: (510) 661-0888

DATE: 4/16/2018

IC ID: 787C- V240MPLUS

8.3. OUT OF BAND EMISSIONS

RULE PART(S)

FCC: §22.359, §22.917, §24.238 IC: RSS132§5.5; RSS133§6.5

FCC LIMITS

FCC: §22.359, §22.917, §24.238

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

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in a maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

For each out of band emissions measurement:

- Set display line at -13 dBm
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

RESULTS

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OUT OF BAND EMISSIONS RESULT AND PLOTS

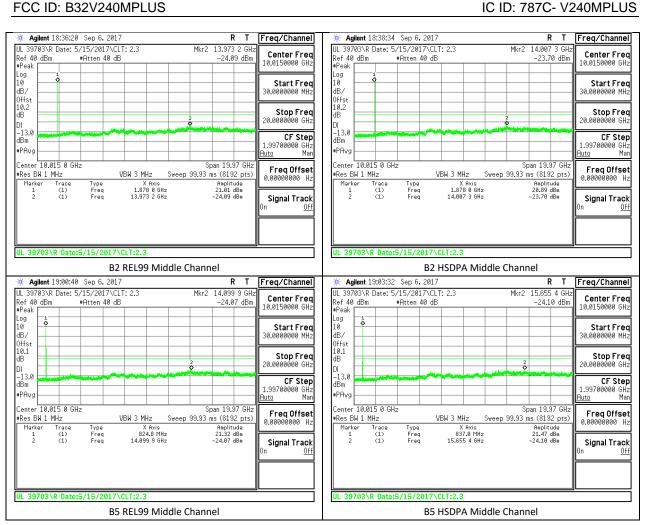
8.3.1. GSM

Band	Mode	f (MHz)	Spur (dBm)	Spec (dBm)	Delta (dB)
		824.2	-22.179	-13	-9.179
	GPRS	836.6	-21.908	-13	-8.908
GSM 850		848.8	-21.458	-13	-8.458
G3IVI 830		824.2	-21.998	-13	-8.998
	EGPRS	836.6	-21.708	-13	-8.708
		848.8	-21.664	-13	-8.664
		1850.2	-21.423	-13	-8.423
	GPRS	1880	-21.958	-13	-8.958
GSM 1900		1909.8	-21.678	-13	-8.678
G3W11900		1850.2	-21.578	-13	-8.578
	EGPRS	1880	-21.986	-13	-8.986
		1909.8	-21.656	-13	-8.656



8.3.2. WCDMA

Band	Mode	f (MHz)	Spur (dBm)	99% BW (MHz)	Delta (dB)
		1852.4	-23.74	-13	-10.74
	REL99	1880	-24.09	-13	-11.09
Band 2		1907.6	-24.15	-13	-11.15
Barra 2		1852.4	-23.98	-13	-10.98
	HSDPA	1880	-23.7	-13	-10.7
		1907.6	-23.24	-13	-10.24
		826.4	-24.07	-13	-11.07
	REL99	836.6	-24	-13	-11
Band 5		846.6	-22.9	-13	-9.9
Balla 3		826.4	-24.1	-13	-11.1
	HSDPA	836.6	-24.1	-13	-11.1
		846.6	-24.2	-13	-11.2



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DATE: 4/16/2018

8.4 FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235 IC: RSS132§5.3; RSS133§6.3

FCC LIMITS

§22.355

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

§24.235

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

RSS132§5.3

The carrier frequency shall not depart from the reference frequency in excess of ±2.5 SRSP for mobile stations and ±1.5 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the occupied bandwidth stays within each of the sub-bands (see Section 5.1) when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS133§6.3

The carrier frequency shall not depart from the reference frequency, in excess of ±2.5 ppm for mobile stations and ±1.0 ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

TEST PROCEDURE

Per KDB 971168 D01 Power Meas License Digital Systems v02r02

Results

Tested By	Kiya Kedida
Date	9/12/17

FREQUENCY STABILITY RESULTS

8.4.1 GSM 850

Refere	nce Frequency: GS	M 850 Mid Channel	836.6	MHz @ 20°C
	Limit: to	stay +- 2.5 ppm =	2091.500	Hz
Power Supply	Environment	Frequency Devi	ation Measureed w	ith Time Elapse
(Vdc)	Temperature (°C)	(MHz)	Delta (ppm)	Limit (ppm)
3.30	75	836.599982	0.000	2.5
3.30	60	836.599978	0.005	2.5
3.30	40	836.599970	0.014	2.5
3.30	20	836.599982	0	2.5
3.30	10	836.599976	0.006	2.5
3.30	0	836.599980	0.002	2.5
3.30	-10	836.599983	-0.001	2.5
3.30	-20	836.599980	0.002	2.5

Refere	nce Frequency: GS	M 850 Mid Channel	836.6	MHz @ 20°C
	Limit: to	stay +- 2.5 ppm =	2091.500	Hz
Power Supply	Environment	Frequency Dev	riation Measured wi	th Time Elapse
(Vdc)	Temperature (°C)	(MHz)	Delta (ppm)	Limit (ppm)
3.30	20	836.599982	О	2.5
4.80	20	836.599983	-0.001	2.5
3.20	20	836.599976	0.006	2.5

8.4.2 GSM 1900

Referen	ce Frequency: GSM	1900 Mid Channel	1880	MHz @ 20°C
	Limit: to	stay +- 2.5 ppm =	4700.000	Hz
Power Supply	Environment	Frequency Devi	ation Measureed w	ith Time Elapse
(Vdc)	Temperature (°C)	(MHz)	Delta (ppm)	Limit (ppm)
3.30	50	1880.000028	0.003	2.5
3.30	40	1880.000025	0.005	2.5
3.30	30	1880.000032	0.001	2.5
3.30	20	1880.000034	0	2.5
3.30	10	1880.000026	0.004	2.5
3.30	0	1880.000025	0.005	2.5
3.30	-10	1880.000029	0.003	2.5
3.30	-20	1880.000027	0.004	2.5

Referen	ce Frequency: GSM	1900 Mid Channel	1880	MHz @ 20°C
	Limit: to	stay +- 2.5 ppm =	4700.000	Hz
Power Supply	Environment	Frequency Dev	riation Measured wi	ith Time Elapse
(Vdc)	Temperature (°C)	(MHz)	Delta (ppm)	Limit (ppm)
3.30	20	1880.000034	0	2.5
4.80	20	1880.000029	0.003	2.5
3.20	20	1880.000031	0.002	2.5

9. RADIATED TEST RESULTS

9.1. FIELD STRENGTH OF SPURIOUS RADIATION

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.

SPURIOUS RADIATION PLOTS

9.1.1. GSM

		ove 1GHz Hi	L Verification	on Service ncy Substi	tution Mea	suremer	nt				Abo	ve 1GHz Hi		on Service ncy Substi		asureme	nt	
ompany: roject #: ste: est Engineer: onfiguration: ocation: ode:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C GPRS 850 I	dapter 1Hz Harmonics							Company Project # Date: Test Eng Configur. Location: Mode:	ineer: ation:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C EGPRS 850 M							
f SG rea	ding Ant. Pol.	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
v Ch, 824.2MHz 8.40 -18		3.0	37.0	1.0	-54.1	-13.0	-41.1		Low Ch, 8 1648.40	-14.5	v	3.0	37.0	1.0	-50.5	-13.0	-37.5	
2.60 -15 6.80 -25	5 V	3.0	36.4 36.2	1.0	-51.3 -60.7	-13.0 -13.0	-38.3 -47.7		2472.60 3296.80	-21.9 -24.6	V	3.0 3.0	36.4 36.2	1.0	-57.4 -59.8	-13.0 -13.0	-44.4 -46.8	
8.40 -15 2.60 -24	0 H	3.0	37.0 36.4	1.0	-51.0 -59.7	-13.0 -13.0	-38.0 -46.7		1648.40 2472.60	-19.4 -17.3	H	3.0 3.0	37.0 36.4	1.0	-55.4 -52.7	-13.0 -13.0	-42.4 -39.7	
6.80 .26 I Ch, 836.6MHz	3 H	3.0	36.2	1.0	-61.4	-13.0	-48.4		3296.80 Mid Ch, 83	-24.8	Й	3.0	36.2	1.0	-59.9	-13.0	-46.9	
3.20 -16 9.80 -13	7 V	3.0 3.0	37.0 36.4	1.0	-52.7 -48.5	-13.0 -13.0	-39.7 -35.5		1673.20 2509.80	-14.4	V	3.0	37.0 36.4	1.0	-50.4 -58.3	-13.0 -13.0	-37.4 -45.3	
16.40 -20 13.20 -15	1 V	3.0	36.1 37.0	1.0	-55.2 -51.9	-13.0	-35.5 -42.2 -38.9		3346.40 1673.20	-23.4 -19.5	v	3.0 3.0 3.0	36.1 37.0	1.0	-58.6 -55.5	-13.0	-45.6 -42.5	
9.80 -18	3 H	3.0	36.4 36.1	1.0	-53.7	-13.0	-40.7		2509.80 3346.40	-13.5	H	3.0	36.4	1.0	-48.9	-13.0	-35.9	
h Ch, 848.8MHz		3.0		1.0	-55.3	.13.0	.42.3		High Ch, 8	-24.6 48.8MHz	Н	3.0	36.1	1.0	-59.7	-13.0	-46.7	
7.60 -11 6.40 -16	3 V	3.0 3.0	37.0 36.4	1.0	-47.1 -51.7	-13.0 -13.0	-34.1 -38.7		1697.60 2546.40	-13.7 -23.9	V	3.0 3.0	37.0 36.4	1.0	-49.7 -59.3	-13.0 -13.0	-36.7 -46.3	
95.20 -18 97.60 -15	6 H	3.0	36.1 37.0	1.0 1.0	-53.5 -51.6	-13.0 -13.0	-40.5 -38.6		3395.20 1697.60	-21.7 -18.4	V H	3.0 3.0	36.1 37.0	1.0 1.0	-56.8 -54.4	-13.0 -13.0	-43.8 -41.4	
16.40 -18 95.20 -18		3.0	36.4 36.1	1.0	-53.6 -53.1	-13.0 -13.0	-40.6 -40.1		2546.40 3395.20	-13.8 -19.1	H	3.0	36.4 36.1	1.0	-49.2 -54.2	-13.0 -13.0	-36.2 -41.2	
	VERIFONE	U nove 1GHz Hi	GSM8	on Service	es, Inc.	suremer	nt		Company		VERIFONE		GSM85 L Verification	on Service	es, Inc.	asureme	nt	
oject #: ete: est Engineer: enfiguration: ecation:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C	ove 1GHz Hi	L Verification	on Service	es, Inc.	suremer	nt		Company Project # Date: Test Eng Configur. Location: Mode:	ineer: ation:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C	UI ove 1GHz Hiệ	L Verification	on Service	es, Inc.	asureme	nt	
oject #: te: st Engineer: nfiguration: cation: de:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C GPRS 1900	dapter MHz Harmonics	IL Verificati	on Service	es, Inc. tution Mea				Project # Date: Test Eng Configura Location:	ineer: ation:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C EGPRS 1900 I	UI IV e 1GHz Hi g spter MHz Harmonics	L Verification	on Service	es, Inc. tution Me			
oject #: te: st Engineer: nfiguration: cation: de: f SG rec MHz (dB	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C GPRS 1900 ding Ant. Pol. (H/V)	dapter MHz Harmonics Distance	IL Verification	on Service ncy Substi	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Project # Date: Test Eng Configur. Location: Mode: f Mt Low Ch, 1:	sG reading (dBm)	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C	UI vve 1GHz Hl pter MHz Harmonics Distance (m)	L Verification Trequer Preamp (d8)	on Service acy Substi	es, Inc. tution Me	Limit (dBm)	Delta (dB)	Notes
oject #: te: st Engineer: infiguration: cation: cde: f SG rec MHz (dB w Ch, 1850.2MHz 0.40 .24 0.60 .24	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C GPRS 1900 ding Ant. Pol. (H/V) 4 V 3 V	dapter MHz Harmonics Distance (m) 3.0 3.0	Preamp (dB) 35.9 35.5	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB) -46.3	Notes	Project # Date: Test Eng Configur. Location: Mode: f MHz Low Ch, 1: 3700.40	SG reading (dBm) 850.2MHz -24.6 -23.0	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C EGPRS 1900 I	Ulave 1GHz Higher Harmonics Distance (m) 3.0	Preamp (dB) 35.9	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB) -46.4 -44.5	Notes
SG rei MHz	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C GPRS 1900 (H/V) 4 V 3 V 7 V 5 H	Distance (m) 3.0 3.0 3.0 3.0	Preamp (dB) 35.9 35.7 35.7	Filter (dB) 1.0 1.0 1.0	EIRP (dBm) -59.3 -57.8 -56.5 -60.4	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.3 44.8 43.5 47.4	Motes	Project # Date: Test Eng Configur. Location: Mode: f MHz Low Ch. 1 3790.40 7400.80 3700.40	SG reading (dBm) 850.2MHz 24.6 23.0 21.6 24.4	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C EGPRS 1900 I	Ultrace 1GHz Higher MHz Harmonics Distance (m) 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7 35.9	Filter (dB) 1.0 1.0 1.0	EIRP (dBm) -59.4 -57.5 -56.3 -59.3	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) -46.4 -44.5 -43.3 -46.3	Notes
SG remail: SG remail:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC A Chamber C GPRS 1900 dling Ant. Pol. n) (H/V) 4 V 7 V 7 V 6 H 6 H	Distance (m) 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7	Filter (dB)	EIRP (dBm) 59.3 57.8	Limit (dBm) -13.0 -13.0 -13.0	Delta (dB) 46.3 44.8 43.5	Notes	Project # Date: Test Eng Configur. Location: Mode:	SG reading (dBm) 850.2MHz 24.6 22.4 22.4 22.4 20.7	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C EGPRS 1900 I	Ulave 1 GHz High spher MHz Harmonics Distance (m) 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7	Filter (dB)	EIRP (dBm) 59.4 57.5	Limit (dBm) -13.0 -13.0 -13.0	Delta (dB) 46.4 44.5 43.3	Notes
oject #: test	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC.P. Chamber C GPRS 1900 ding Ant. Pol. (H/V) 4 V 7 V 7 V 9 H 6 H 0 H	Distance	Preamp (dB) 35.9 35.5 35.7 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.3 55.5 60.4 57.1 55.8	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 47.5	Notes	Project # Date: Test Eng Configur. Location: Mode: f MHz Low Ch. 1 3700.40 5550.60 7400.80 Mid Ch. 18 3760.00	SG reading (dBm) 850.2MHz 24.6 22.4 22.4 22.4 20.7	VERIFONE 11631998 9/6/2017 GE43578 BEUT + AC AG Chamber C EGPRS 1900 I Ant. Pol. (H/V) V V H H	UII speer 1GHz High speer MHz Harmonics Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.4 57.5 56.3 59.3 56.9 55.5	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.4 44.5 43.3 46.3 43.9	Notes
oject #: test	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC.P. Chamber C GPRS 1900 ding Ant. Pol. (H/V) 4 V 7 V 7 V 9 H 6 H 0 H	Distance	Preamp (dB) 35.9 35.5 35.7 35.8 35.5 35.5 35.7 35.8 35.5	Filter (dB) 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.3 57.8 56.5 60.4 57.1 55.8 60.5 56.7	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 47.5 43.7 43.7	Notes	Project # Date: Test Eng Configur. Location: Mode: f MHz. Low Ch. 1. 3700.40 5550.60 7400.80 Mid Ch. 18 3760.00 5540.00 5540.00	SG reading (dBm) 850.2MHz 24.5 23.0 24.4 22.4 20.7 880MHz	VERIFONE 11631998 9/6/2017 GE43578 BEUT + AC AG Chamber C EGPRS 1900 I Ant. Pol. (H/V) V V H H	UII speer 1GHz High speer MHz Harmonics Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7 35.8 35.8 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.4 59.3 56.9 56.9 56.7 55.5 55.5	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.4 44.5 43.3 46.3 43.9 42.5	Notes
	VERIFONE 11631998 1962917 0643578 EUT - AC A Chamber C GPRS 1900 (H/V) 4 V 7 V 5 H 6 H 7 V 8 V 7 T V 8 V 7 T V 8 T 7 T H 8 T 7 T H 8 T 7 T H 8 T 7 T H 8 T 7 T H 8 T T 7 T H 8 T T T T T T T T T T T T T T T T T	Distance	Preamp (dB) 35.9 35.5 35.5 35.5 35.8 35.5 35.8 35.8 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dBm) 59.3 57.8 56.5 60.4 57.1 55.8 60.5 56.7	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 47.5 43.7 43.7 43.7 43.7 43.5 47.5 43.6	Notes	Project # Date: Test Eng Configur Location: Mode: Mile	SG reading (dBn) 250.2Mhz 24.5 23.0 21.6 22.4 22.4 22.4 22.4 22.4 22.4 22.4 22	VERIFONE 11631998 9/6/2017 GE43578 BEUT + AC AG Chamber C EGPRS 1900 I Ant. Pol. (H/V) V V H H	Uiture 1 GHz History 1 GHz Harmonics Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	Preamp (dB) 35.9 35.5 35.7 35.9 35.5 35.7 35.8 35.5 35.7	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dBm) 59.4 57.5 56.3 56.9 55.5 56.0.7 55.9 56.0.1	Limit (dBm) 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.	Delta (db) 46.4 44.5 43.3 46.3 43.9 42.5 47.1 47.1	Notes
Section Sect	VERIFONE 11631998 9162017 GE43578 GE43578 CHAMBER C GPRS 1990 41 4 4 4 7 7 7 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Distance (m) 3.0 3	Preamp (dB) 35.9 35.5 35.7 35.8 35.5 35.5 35.7 35.8 35.5	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dBm) 59.3 57.8 56.5 60.4 57.1 55.8 60.5 56.7	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 47.5 43.7 43.7	Notes	Project # Date: Test Eng Configur Location: Mode: Military	SG reading (dBm) 295.2 MHz 24.6 23.0 21.6 22.4 22.4 22.7 22.4 21.7 22.4 21.7 22.4 21.7 21.7 25.3 20.7 19.7 19.7 19.7	VERIFONE 11631998 976/2017 16243578 EUT + AC Add Chamber C EGPRS 1900 I Ant. Pol. (HVV) V V H H H V V V V H H H V V V V H H H H V V V V H H H H V V V V H H H H V V V V H H H H V V V V H H H H V V V V H H H H H V V V V H H H H V V V V H H H H H V V V V H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H V V V V H H H H H H V V V V H	Ultrace Third Harmonics Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	Preamp (dB) 35.9 35.5 35.7 35.8 35.8 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dBm) 59.4 59.3 56.9 56.9 56.7 55.5 55.5	Limit (dBm) 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.	Delta (dB) 46.4 44.5 43.3 46.3 43.9 42.5 47.7 42.9	Notes
oject #: st Engineer: information: st Engineer: office en	VERIFONE 11631998 9162017 GE43578 EUT + AC Chamber C GPRS 1900 (HIV) 4 V 7 V 7 V 7 V 7 V 7 V 7 V 7 V 8 H 7 V 2 V 8 V 7 V 7 V 7 V 7 V 7 V 7 V 7 V 7 V 7	Distance (m) 3.0 3	Preamp (dB) 35.9 35.5 35.7 35.8 35.8 35.5 35.7 35.8 35.6 35.7 35.8 35.7 35.8 35.7 35.8 35.7 35.8 35.7 35.8 35.7 35.8 35.8 35.7 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EIRP (d6m) 59.3 55.5 56.5 56.5 56.5 56.5 56.5 56.5 56	Limit (dBm) -13.0	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 47.5 43.7 43.7 43.5 43.6 41.9	Notes	Project # Date: Test Eng Configur Location: Mode: MHz	SG reading (dBm) 250.2MHz 24.6 22.4 22.4 22.4 22.4 22.4 22.7 25.3 20.0MHz 25.9 9.3MHz 25.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9	VERIFONE 11631998 916/2011 11631998 916/2012 916/2013 916/2013 EUT + AC Add Selection (H/V) Ant. Pol. (H/V) V V V H H H V V V H H H H	Ustance (m) Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7 35.8 35.7 35.8 35.7 35.8 35.7 35.8 35.7 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.4 57.5 56.3 56.5 56.5 56.5 56.5 56.5 56.5 56	Limit (dBm) 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	Delta (d5) 46.4 44.5 43.3 46.3 42.5 42.5 43.1 42.9 43.5 43.1 42.2 43.4 43.4 44.4 47.2	Notes
oject #: te: st Engineer: infiguration: cation: de: Garage Garage Garage	VERIFONE 11631998 9/6/2017 GE45578 EUT + A/C Chamber C GPRS 1900 (H/IV) 4 V 7 V 7 7 V 7 7 V 7 7 1 7 1 7 1 7 1 7 1	Distance (m)	Preamp (dB) 35.9 35.5 35.8 35.5 35.8 35.5 35.8 35.5 35.5	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dSm) 59.3 59.3 59.3 59.3 59.5 50.5 60.5 55.5 60.5 55.5 60.5 55.7 55.5 60.0 57.2	Limit (dBm) 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 47.5 43.7 43.5 47.6 43.6 41.9 47.0 44.2 43.5	Notes	Project # Date: Test Eng Configur Configur Location: Mode: MHz	SG reading (dBm) 250,2MHz 24,6 22,4 22,4 21,7 25,3 20,7 19,7 299,8MHz 254,22,4 22,4 22,4 22,4 22,4 22,4 22,4	VERIFONE 11631998 996/2917 GE4357 GE4357 GE4576 EGPRS 1900 1 Ant. Pol. (H/V) V V V V H H H V V V V V V V V V V V V	Uive 1GHz Historics (m) Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 35.9 35.5 35.7 35.9 35.5 35.5 35.5 35.5 35.5 35.5 35.5	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EIRP (d8m) 59.4 59.5 59.3 56.3 56.3 56.3 56.3 56.3 56.3 56.3 56	Limit (dBm) 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0	Delta (dB) 46.4 44.5 43.3 46.3 42.5 42.7 42.7 42.7 42.7 43.5 43.1 42.2 43.4 43.9 43.2 43.4 43.2 43.9 43.2 43.9 43.9 43.9 43.9 43.9 43.9 43.9 43.9	Notes
oject #: te: st Engineer: ff	VERIFONE 11631998 9/6/2017 GE45578 EUT + AC Chamber C GPRS 1900 44 V 5 V 7 V 6 H 7 V 7 V 7 V 7 V 7 V 7 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 8 V 7 V 8 V 7 V 8 V 7 V 8 V 7 V 9 V 9 V 9 V 9 V 9 V 9 V 9 V 9 V 9 V 9	Distance (m)	Preamp (dB) 35.9 35.5 35.7 35.8 35.8 35.8 35.8 35.8 35.8	Filter (dB) 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.	EIRP (dbm) 59-3 57-8 50-4 59-1 59-3 59-3 59-3 59-3 59-3 59-3 59-3 59-3	Limit (dBm) 113.0	Delta (dB) 46.3 44.8 43.5 47.4 44.1 42.8 43.7 43.5 47.5 43.7 43.5 47.5 47.5 47.5 47.6 47.6 47.6 47.6 47.6 47.6 47.6 47.6	Notes	Project # Date: Test Eng Configuru Location: Mode: It	SG reading (d8m) 850.2MHz 24.6 23.0 21.6 20.7 21.7 25.5 20.7 25.5 30.0 20.7 25.5 30.0 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 25.5 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	VERIFONE 11631998 996/2017 GE43578 EUT + AC EGPRS 1900 Ant. Pol. (HV) V V H H H H H V V V V V V V V V V V	Uive 1GHz Historics Distance (m) 3.0	Preamp (dB) Preamp (dB) 35.9	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.4 57.5 59.3 59.3 59.3 59.3 59.3 59.3 59.3 59	Limit (dBm) 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13.	Delta (db) 44.4 44.5 43.3 46.3 42.5 42.7 42.9 42.2 41.4 47.2 43.9 43.9 43.9 43.9 47.1 47.2 43.9 43.9 43.9 47.3 47.9	Notes
MHz (488 WCh, 1850, 2MHz 00,40 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 22,50,60 25,50,60	VERIFONE 11631998 9/6/2017 GE45578 EUT + AC Chamber C GPRS 1900 44 V 5 V 7 V 6 H 7 V 7 V 7 V 7 V 7 V 7 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 7 V 8 V 7 V 8 V 7 V 8 V 7 V 8 V 7 V 8 V 7 V 9 V 9 V 9 V 9 V 9 V 9 V 9 V 9 V 9 V 9	Distance (m) 3.0 3	Preamp (dB) 35.9 35.5 35.5 35.8 35.8 35.8 35.8 35.8 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EIRP (dBm) 59.3 57.8 56.5 60.4 55.5 60.5 56.5 56.5 56.5 56.5 56.5 56.5	Limit (dBm) -13.0	Delta (dB) 46.3 44.8 43.5 43.5 43.5 43.7 44.1 42.8 43.7 43.7 43.7 43.6 41.9 47.0 44.2 43.5 43.5 44.6	Notes	Project # Date: Test Eng Configuru Location: Mode: MHz Low Ch., 1 3792-06 3790-06 379	SG reading (dBm) 850.2Mht 24.6 24.6 24.6 22.4 20.7 28.80Mht 21.7 22.7 29.9 25.9 25.9 25.9 25.9 25.9 25.9 25.9	VERIFONE 11631998 996/2017 GE43578 EUT + AC EGPRS 1900 (HVV) Ant. Pol. (HVV) V V H H H H V V V V V V V V V V V V	Uistance (m) Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	Preamp (dB) 35.9 35.5 35.7 35.8 35.5 35.7 35.8 35.5 35.7 35.8 35.5 35.8	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	EBRP (dBm) 59.4 49.7 55.5 55.5 55.5 55.5 55.5 55.5 55.5 5	Limit (dBm) -13.0	Delta (dB) 46.4 44.5 43.3 46.3 43.9 42.5 47.1 42.9 43.1 41.4 43.9 43.2 47.3	Notes

9.1.2. WCDMA

		Abo	UI ve 1GHz Hig		on Service acy Substit		surement	t				Abo	U ove 1GHz Hi	L Verification gh Frequen			asureme	nt	
ompany: roject #: ate: est Enginee onfiguration ocation: lode:		VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C Rel99 Band 2 h								Company: Project #: Date: Test Engi Configura Location: Mode:	neer:	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C HSDPA Band 3							
MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
v Ch, 1852. 4.80 7.20 9.60 4.80 7.20 9.60	-15.4 -21.3 -20.5 -12.0 -20.6 -19.1	V V V H	3.0 3.0 3.0 3.0 3.0 3.0	35.9 35.5 35.7 35.9 35.5 35.7	1.0 1.0 1.0 1.0 1.0	.50.3 .55.7 .55.2 .46.9 .55.1	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	-37.3 -42.7 -42.2 -33.9 -42.1 -40.8		Low Ch, 18 3704.80 5557.20 7409.60 3704.80 5557.20 7409.60	-15.7 -21.5 -20.2 -12.7 -20.7 -19.4	V V V H	3.0 3.0 3.0 3.0 3.0 3.0	35.9 35.5 35.7 35.9 35.5 35.7	1.0 1.0 1.0 1.0 1.0	-50.6 -56.0 -54.9 -47.5 -55.2 -54.1	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	-37.6 -43.0 -41.9 -34.5 -42.2 -41.1	
Ch, 1880M 0.00 0.00 0.00 0.00 0.00	JHz -21.8 -22.7 -21.2 -17.9 -21.3 -19.6	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	35.8 35.5 35.7 35.8 35.5 35.7	1.0 1.0 1.0 1.0 1.0	56.6 57.2 56.0 52.7 55.8 54.4	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	43.6 44.2 43.0 -39.7 42.8 41.4		Mid Ch, 18 3760.00 5640.00 7520.00 3760.00 5640.00 7520.00	21.3 -23.4 -24.1 -18.3 -21.8 -19.4	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	35.8 35.5 35.7 35.8 35.5 35.7	1.0 1.0 1.0 1.0 1.0	-56.1 -57.8 -58.8 -53.1 -56.3 -54.2	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	-43.1 -44.8 -45.8 -40.1 -43.3 -41.2	
h Ch, 1907. 5.20 2.80 0.40 5.20 2.80 0.40	.6MHz -19.5 -20.8 -20.6 -16.2 -22.0 -19.2	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0 3.0	35.8 35.5 35.8 35.8 35.5 35.8	1.0 1.0 1.0 1.0 1.0	54.3 55.3 55.3 51.0 56.5 53.9	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	41.3 42.3 42.3 38.0 43.5 40.9		High Ch, 19 3815.20 5722.80 7630.40 3815.20 5722.80 7630.40	907.6MHz -19.2 -20.7 -20.3 -16.5 -22.3 -19.5	V V V H H	3.0 3.0 3.0 3.0 3.0 3.0	35.8 35.5 35.8 35.8 35.5 35.5	1.0 1.0 1.0 1.0 1.0	-54.0 -55.2 -55.1 -51.3 -56.8 -54.3	-13.0 -13.0 -13.0 -13.0 -13.0 -13.0	41.0 42.2 42.1 38.3 43.8 41.3	
oject#:		VERIFONE 11631998	UI ve 1GHz Hig	L Verification	on Service acy Substit	s, Inc. tution Mea	surement	t		Company: Project #:	:	VERIFONE 11631998	U ove 1GHz Hi	L Verification	on Service	es, Inc. tution Me	asureme	nt	
eject #: te: st Enginee ofiguration: cation:	n:	VERIFONE	v e 1GHz Hi g pter	L Verificatio	on Service	s, Inc. tution Mea	surement	ŧ			neer:	VERIFONE	ove 1GHz Hi	L Verificatic gh Frequen	on Service	es, Inc. tution Me	easureme	nt	
ject #: e: st Enginee infiguration: ation: de:	SG reading (dBm)	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C	v e 1GHz Hi g pter	L Verification Trequent Preamp (dB)	on Service icy Substit	s, Inc. tution Mea	Surement Limit (dBm)	Delta (dB)	Notes	Project #: Date: Test Engi Configura Location: Mode:	sG reading (dBm)	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C	ove 1GHz Hi	L Verification	on Service acy Substi	es, Inc. tution Me	Limit (dBm)	nt Delta (dB)	Notes
e: st Engineer st	SG reading (dBm) MHz -13.5 -26.6 -26.3 -19.5 -29.4 -26.6	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C Rel99 Band 5 H	pter Harmonics	gh Frequen	rilter	tution Mea	Limit	Delta	Notes	Project #: Date: Test Engi Configura Location: Mode: f MHz Low Ch, 82 1652.80 2479.20 3305.60	SG reading (dBm) 6.4MHz 14.5 26.9 20.1 29.8 26.8	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C HSDPA Band	apter 5 Harmonics	gh Frequen	Filter	tution Me	Limit	Delta	Notes
f S MHz S A S A S A S A S A S A S A S A S A S	SG reading (dBm) MHz 13.5 26.6 26.6 26.6 26.6 10.7 27.1 26.1 10.7 27.1 26.4 26.6 26.6 26.6 26.6 26.6 26.6 26.6	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C Rel99 Band 5 H Ant. Pol. (H/V) V V V H H	pter Harmonics Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 37.0 36.1 37.0 36.3 36.3	Filter (dB) 1.0 1.0 1.0 1.0	EIRP (dBm) 49.6 62.0 61.5 55.5 64.8	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) -36.6 -49.0 -48.5 -42.5 -51.8	Notes	Project #: Date: Test Engl Configura Location: Mode: 1	SG reading (dBm) (dBm) (6.4MHz 14.5 26.9 20.1 29.8 6.6MHz 11.0 27.4 26.5 16.2 26.6 26.6	VERIFONE 11631998 9/6/2017 GE43578 EUT + AC Ada Chamber C HSDPA Band : Ant. Pol. (H/V) V V	Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 37.0 36.4 36.1 37.0 36.4 36.3	Filter (dB) 1.0 1.0 1.0 1.0	EIRP (dBm) -50.5 -62.3 -62.0 -56.1 -65.2	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 37.5 49.3 49.0 43.1 52.2	Notes
Company: Project #: Date: Test Engine- Configuratio. Coation: Wode: 1	SG reading (dBm) MHz 13.5 26.6 26.6 26.6 26.6 10.7 27.1 26.1 10.7 27.1 26.4 26.6 26.6 26.6 26.6 26.6 26.6 26.6	VERIFONE 11631998 996/2017 GE43578 EUT + AC Ada EUT + AC Ada EUT + AC Ada (H/V) Ant. Pol. (H/V) V V V V V V V V V H H H H	Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Preamp (dB) 37.0 36.1 37.0 36.4 36.1 37.0 36.4 36.1 37.0 36.4 36.3	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dBm) 49.6 52.0 51.5 55.5 64.8 61.7 52.6 51.5 51.8	Limit (dBm) -13.0	Delta (dB) 36.6 49.0 48.5 42.5 551.8 48.8 33.7 49.5 48.8 38.8 48.4	Notes	Project #: Date: Test Engi Configura Location: Mode: National Configura National Configu	SG reading (dBm) (dBm) (6.4MHz 14.5 26.9 20.1 29.8 6.6MHz 11.0 27.4 26.5 16.2 26.6 26.6	VERIFONE 11631998 996/22017 GE43578 EUT + AC Ada EUT + AC Ada HSDPA Band 1 Ant. Pol. (H/V) V V V V V V V V H H H H H H H H H H	Distance (m) 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.	Preamp (dB) 37.0 36.1 37.0 36.4 36.1 37.0 36.4 36.1 37.0 36.4 36.3	Filter (dB) 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.	EIRP (dBm) 50.5 62.3 62.0 56.1 65.2 61.9 47.0 62.8 61.6 52.2	Limit (dBm) -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0 -13.0	Delta (dB) 37.5 49.3 49.0 49.1 43.1 43.1 48.9 34.0 49.8 34.0 49.8 48.6 39.2 49.0	Notes