Bayer Healthcare LLC

CGMT01 Transmitter (RSA)

FCC 15.249:2012

Report #: BAYE0011

Report Prepared By Northwest EMC Inc.

NORTHWEST EMC – (888) 364-2378 – www.nwemc.com

California – Minnesota – Oregon – New York – Washington

CERTIFICATE OF TEST

WTD 12.5.23

Last Date of Test: October 5, 2012
Bayer Healthcare LLC
Model: CGMT01 Transmitter (RSA)

Emissions

Test Description	Specification	Test Method	Pass/Fail
Field Strength of Fundamental	FCC 15.249:2012	ANSI C63.10:2009	Pass
Field Strength of Harmonics	FCC 15.249:2012	ANSI C63.10:2009	Pass

Deviations From Test Standards

None

Approved By:

Tim O'Shea, Operations Manager

NVLAP Lab Code: 200630-0

Test Facility

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site filing #2834D-1).

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.

Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test.

REVISION HISTORY

Revision Number	Description	Date	Page Number
00	None		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

NORTHWEST EMC

REV 2012.05.24

ACCREDITATIONS AND AUTHORIZATIONS

United States

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC Guide 65 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

European Union

European Commission – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

Australia/New Zealand

ACMA - Recognized by ACMA as a CAB for the acceptance of test data.

Korea

KCC / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

Singapore

IDA – Recognized by IDA as a CAB for the acceptance of test data.

Hong Kong

OFTA – Recognized by OFTA as a CAB for the acceptance of test data.

Vietnam

MIC – Recognized by MIC as a CAB for the acceptance of test data.

Russia

GOST – Accredited by Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC to perform EMC and Hygienic testing for Information Technology products to GOST standards.

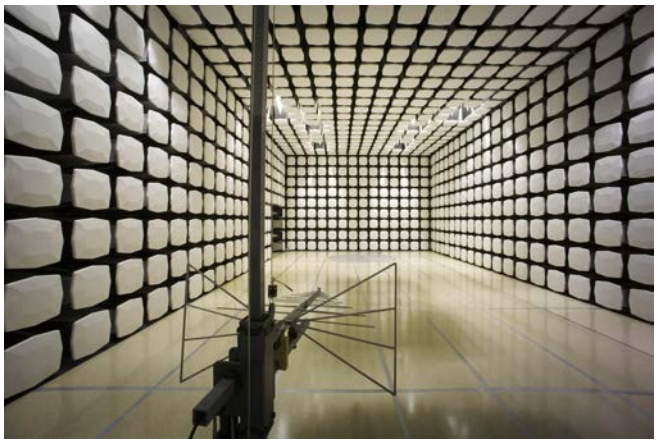
SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/accreditations/

LOCATIONS

REV 2012.08.03

Oregon	California	New York	Minnesota	Washington
Labs EV01-EV12 22975 NW Evergreen Pkwy, #400 Hillsboro, OR 97124 (503) 844-4066	Labs OC01-OC13 41 Tesla Irvine, CA 92618 (949) 861-8918	Labs WA01-WA04 4939 Jordan Rd. Elbridge, NY 13060 (315) 685-0796	Labs MN01-MN08 9349 W Broadway Ave. Brooklyn Park, MN 55445 (763) 425-2281	Labs SU01-SU07 14128 339th Ave. SE Sultan, WA 98294 (360) 793-8675
VCCI				
A-0108	A-0029		A-0109	A-0110
Industry Canada				
2834D-1, 2834D-*2*	2834B-1, 2834B-2, 2834B-3		2834E-1	2834C-1



PRODUCT DESCRIPTION

WTD 12.5.23

Client and Equipment Under Test (EUT) Information

Company Name:	Bayer Healthcare LLC
Address:	27700 SW 95th Avenue
City, State, Zip:	Wilsonville, OR 97070
Test Requested By:	Bob Bruce
Model:	CGMT01 Transmitter (RSA)
First Date of Test:	October 01, 2012
Last Date of Test:	October 05, 2012
Receipt Date of Samples:	September 21, 2012
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):
Radio transceiver operating in the 2.4 GHz band. The transceiver is contained in a body-worn sensor device (RSA) providing digitized glucose levels to a remote handheld.

Testing Objective:
Seeking TCB authorization under FCC Part 15.249

CONFIGURATIONS

Configuration BAYE0011- 3

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
RSA Low Channel Tx	Bayer Healthcare LLC	CGMT01 Transmitter (RSA)/70058-00 Rev B	11F00282
RSA Mid Channel Tx	Bayer Healthcare LLC	CGMT01 Transmitter (RSA)/70058-00 Rev B	11F00489
RSA High Channel Tx	Bayer Healthcare LLC	CGMT01 Transmitter (RSA)/70058-00 Rev B	11F00160

MODIFICATIONS

WTD 12.5.23

Equipment Modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	10/1/2012	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	10/5/2012	Field Strength of Harmonics	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

DUTY CYCLE

TEST DESCRIPTION

The Duty Cycle (x) were measured for each of the EUT operating modes. The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. The duty cycle was measured radiated in the RF chamber.

The duty cycle was calculated by dividing the transmission pulse duration (T) by the total period of a single on and total off time.

The EUT operates at 100% Duty Cycle.

FIELD STRENGTH OF FUNDAMENTAL

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting MSK modulated signal at 100% duty cycle

POWER SETTINGS INVESTIGATED

EUT Battery

CONFIGURATIONS INVESTIGATED

BAYE0011 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	2400 MHz	Stop Frequency	2483.5 MHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/27/2012	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/27/2012	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	24 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Testing was done with the radio operating at 100% duty cycle using customer provided test software/firmware.

The duty cycle correction factor applied to the average detector measurements is based on the worst case transmitter on time in a given period for the highest duty cycle operating mode available during normal operation of the product.

The duty cycle correction factor is based on the formula of 20 * LOG (T on/Period).

When operating normally the total transmission time is 8.2ms with a period greater than 100ms:

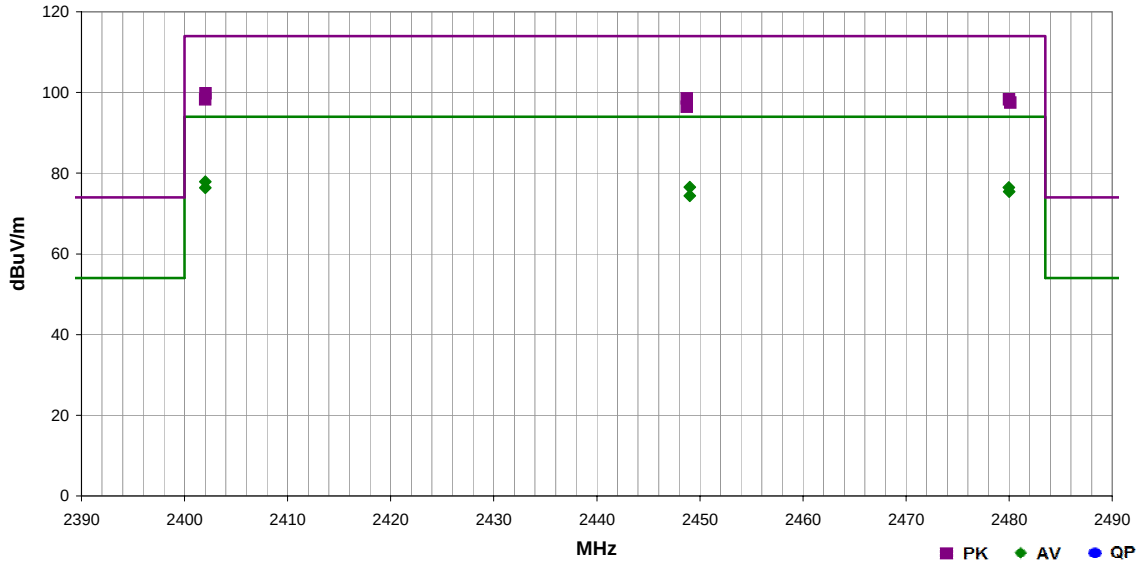
20*LOG(8.2/100) = -21.7 dB

FIELD STRENGTH OF FUNDAMENTAL

Work Order:	BAYE0011	**Date:**	10/01/12		
Project:	None	**Temperature:**	23.9 °C		
Job Site:	EV01	**Humidity:**	34% RH		
Serial Number:	11F00282, 11FF0489, 11F00160	**Barometric Pres.:**	1024.7 mbar	**Tested by:**	Carl Engholm, Rod Peloquin
EUT:	CGMT01 Transmitter (RSA)				
Configuration:	3				
Customer:	Bayer Healthcare LLC				
Attendees:	None				
EUT Power:	EUT Battery				
Operating Mode:	Transmitting MSK modulated signal at 100% duty cycle				
Deviations:	None				
Comments:	The duty cycle correction factor applied to the average detector measurements is based on the worst case transmitter on time in a given period for the highest duty cycle operating mode available during normal operation of the product. When operating normally the total transmission time is 8.2ms with a period greater than 100ms: 20*LOG(8.2/100) = -21.7 dB				

Test Specifications	**Test Method**
FCC 15.249:2012	ANSI C63.10:2009

Run #	22	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Duty Cycle Correction (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2402.040	78.2	1.5	1.0	318.0	3.0	20.0	Horz	PK	0.0	99.7	114.0	-14.3	Low CH (2402MHz), EUT Horizontal
2448.733	76.8	1.7	1.0	160.0	3.0	20.0	Horz	PK	0.0	98.5	114.0	-15.5	Mid CH (2449MHz), EUT Horizontal
2402.027	76.7	1.5	1.0	88.0	3.0	20.0	Vert	PK	0.0	98.2	114.0	-15.8	Low CH (2402MHz), EUT On Side
2480.000	76.4	1.8	1.0	184.0	3.0	20.0	Horz	PK	0.0	98.2	114.0	-15.8	High CH (2480MHz), EUT Horizontal
2402.020	78.0	1.5	1.0	318.0	3.0	20.0	Horz	AV	-21.7	77.8	94.0	-16.1	Low CH (2402MHz), EUT Horizontal
2480.120	75.6	1.8	1.1	21.0	3.0	20.0	Vert	PK	0.0	97.4	114.0	-16.6	High CH (2480MHz), EUT On Side
2449.007	76.5	1.7	1.0	160.0	3.0	20.0	Horz	AV	-21.7	76.5	94.0	-17.5	Mid CH (2449MHz), EUT Horizontal
2479.973	76.3	1.8	1.0	184.0	3.0	20.0	Horz	AV	-21.7	76.4	94.0	-17.5	High CH (2480MHz), EUT Horizontal
2448.753	74.7	1.7	1.0	248.0	3.0	20.0	Vert	PK	0.0	96.4	114.0	-17.6	Mid CH (2449MHz), EUT On Side
2402.013	76.5	1.5	1.0	88.0	3.0	20.0	Vert	AV	-21.7	76.3	94.0	-17.6	Low CH (2402MHz), EUT On Side
2480.007	75.3	1.8	1.1	21.0	3.0	20.0	Vert	AV	-21.7	75.4	94.0	-18.5	High CH (2480MHz), EUT On Side
2449.013	74.4	1.7	1.0	248.0	3.0	20.0	Vert	AV	-21.7	74.4	94.0	-19.6	Mid CH (2449MHz), EUT On Side

FIELD STRENGTH OF HARMONICS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

MODES OF OPERATION

Transmitting MSK modulated signal at 100% duty cycle

POWER SETTINGS INVESTIGATED

EUT Battery

CONFIGURATIONS INVESTIGATED

BAYE0011 - 3

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26.5 GHz

SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	2/28/2012	12 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	2/28/2012	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	2/28/2012	12 mo
Antenna, Horn	ETS	3160-07	AHU	NCR	0 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	6/27/2012	12 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	6/27/2012	12 mo
Antenna, Horn	ETS	3115	AIZ	1/24/2011	24 mo
EV01 Cables	N/A	Bilog Cables	EVA	6/26/2012	12 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	6/26/2012	12 mo
Antenna, Biconilog	EMCO	3141	AXG	4/10/2012	12 mo
Spectrum Analyzer	Agilent	E4446A	AAQ	2/7/2012	12 mo

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Testing was done with the radio operating at 100% duty cycle using customer provided test software/firmware

The duty cycle correction factor applied to the average detector measurements is based on the worst case transmitter on time in a given period for the highest duty cycle operating mode available during normal operation of the product.

The duty cycle correction factor is based on the formula of 20 * LOG (T on/Period).

When operating normally the total transmission time is 8.2ms with a period greater than 100ms:

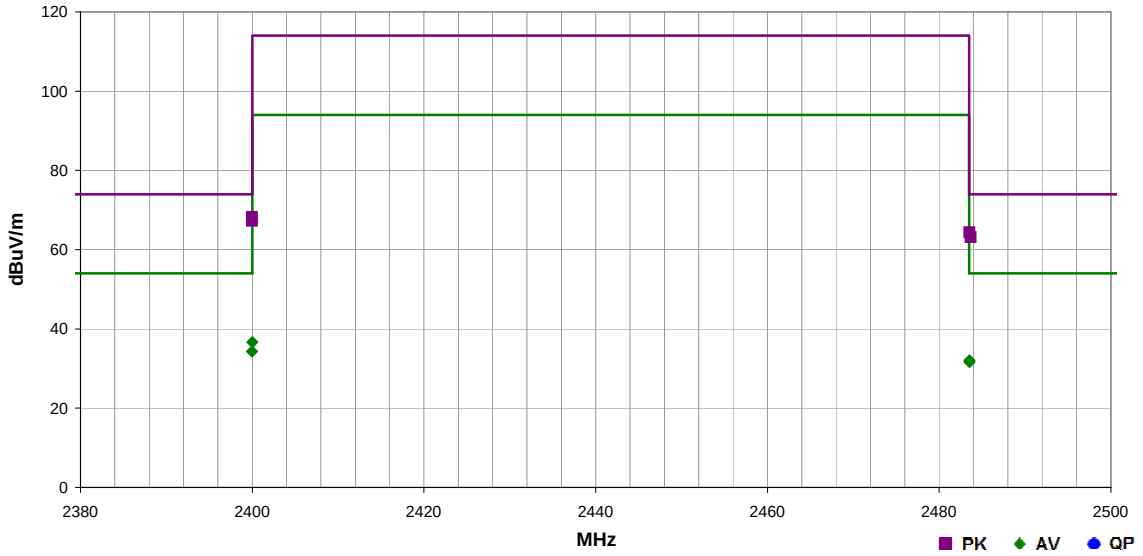
20*LOG(8.2/100) = -21.7 dB

FIELD STRENGTH OF HARMONICS

Work Order:	BAYE0011	**Date:**	10/01/12		
Project:	None	**Temperature:**	23.9 °C		
Job Site:	EV01	**Humidity:**	34% RH		
Serial Number:	11F00282, 11F00489, 11F00160	**Barometric Pres.:**	1024.7 mbar	**Tested by:**	Carl Engholm, Rod Peloquin
EUT:	CGMT01 Transmitter (RSA)				
Configuration:	3				
Customer:	Bayer Healthcare LLC				
Attendees:	None				
EUT Power:	EUT Battery				
Operating Mode:	Transmitting MSK modulated signal at 100% duty cycle				
Deviations:	None				
Comments:	The duty cycle correction factor applied to the average detector measurements is based on the worst case transmitter on time in a given period for the highest duty cycle operating mode available during normal operation of the product. When operating normally the total transmission time is 8.2ms with a period greater than 100ms: 20*LOG(8.2/100) = -21.7 dB				

Test Specifications	**Test Method**
FCC 15.249:2012	ANSI C63.10:2009

Run #	19	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



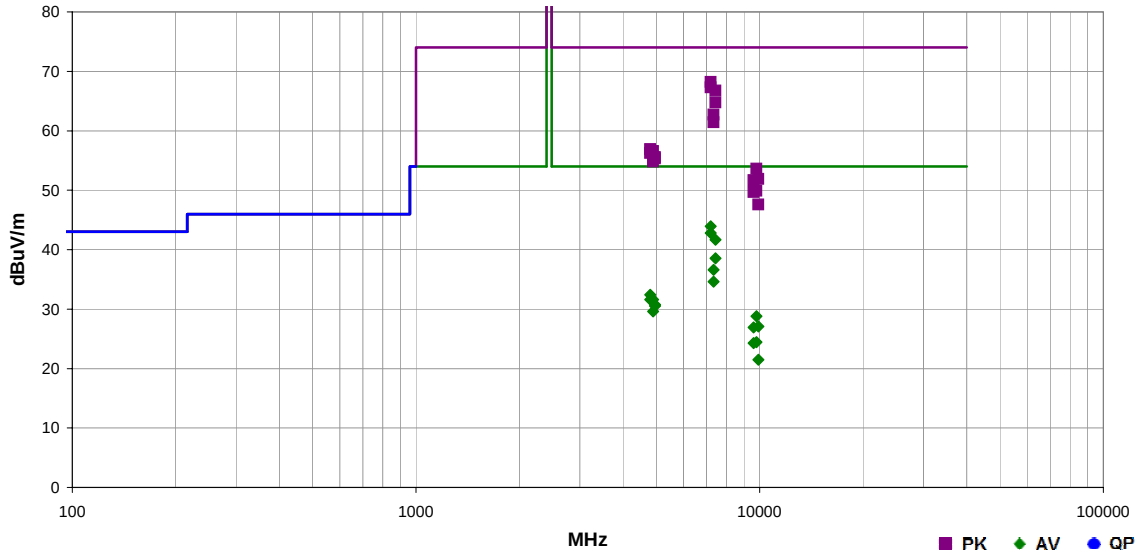
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Duty Cycle Correction (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2399.987	46.7	1.5	1.0	355.0	3.0	20.0	Horz	PK	0.0	68.2	74.0	-5.8	Low CH (2402MHz), EUT Horizontal
2399.993	45.7	1.5	1.1	259.0	3.0	20.0	Vert	PK	0.0	67.2	74.0	-6.8	Low CH (2402MHz), EUT On Side
2483.513	42.5	1.9	1.0	184.0	3.0	20.0	Horz	PK	0.0	64.4	74.0	-9.6	High CH (2480MHz), EUT Horizontal
2483.677	41.3	1.9	1.1	83.0	3.0	20.0	Vert	PK	0.0	63.2	74.0	-10.8	High CH (2480MHz), EUT On Side
2400.000	36.8	1.5	1.0	355.0	3.0	20.0	Horz	AV	-21.7	36.6	54.0	-17.4	Low CH (2402MHz), EUT Horizontal
2399.993	34.5	1.5	1.1	259.0	3.0	20.0	Vert	AV	-21.7	34.3	54.0	-19.7	Low CH (2402MHz), EUT On Side
2483.543	31.9	1.9	1.0	184.0	3.0	20.0	Horz	AV	-21.7	32.1	54.0	-21.9	High CH (2480MHz), EUT Horizontal
2483.527	31.5	1.9	1.1	83.0	3.0	20.0	Vert	AV	-21.7	31.7	54.0	-22.3	High CH (2480MHz), EUT On Side

FIELD STRENGTH OF HARMONICS

Work Order:	BAYE0011	**Date:**	10/05/12		
Project:	None	**Temperature:**	22.2 °C		
Job Site:	EV01	**Humidity:**	26% RH		
Serial Number:	11F00282, 11F00489, 11F00160	**Barometric Pres.:**	1021 mbar	**Tested by:**	Carl Engholm, Rod Peloquin
EUT:	CGMT01 Transmitter (RSA)				
Configuration:	3				
Customer:	Bayer Healthcare LLC				
Attendees:	Bob Bruce				
EUT Power:	EUT Battery				
Operating Mode:	Transmitting MSK modulated signal at 100% duty cycle				
Deviations:	None				
Comments:	The duty cycle correction factor applied to the average detector measurements is based on the worst case transmitter on time in a given period for the highest duty cycle operating mode available during normal operation of the product. When operating normally the total transmission time is 8.2ms with a period greater than 100ms: 20*LOG(8.2/100) = -21.7 dB				

Test Specifications	**Test Method**
FCC 15.249:2012	ANSI C63.10:2009

Run #	23	**Test Distance (m)**	3	**Antenna Height(s)**	1-4m	**Results**	Pass



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Duty Cycle Correction (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
7206.193	49.9	18.3	1.6	113.0	3.0	0.0	Vert	PK	0.0	68.2	74.0	-5.8	Low CH (2402MHz), EUT Vertical
7205.933	49.0	18.3	1.6	48.0	3.0	0.0	Horz	PK	0.0	67.3	74.0	-6.7	Low CH (2402MHz), EUT Horizontal
7439.667	47.3	19.5	1.5	65.0	3.0	0.0	Vert	PK	0.0	66.8	74.0	-7.2	High CH (2480MHz), EUT Vertical
7439.367	45.3	19.5	1.0	287.0	3.0	0.0	Horz	PK	0.0	64.8	74.0	-9.2	High CH (2480MHz), EUT Horizontal
7206.020	47.3	18.3	1.6	113.0	3.0	0.0	Vert	AV	-21.7	43.9	54.0	-10.1	Low CH (2402MHz), EUT Vertical
7206.087	46.2	18.3	1.6	48.0	3.0	0.0	Horz	AV	-21.7	42.8	54.0	-11.2	Low CH (2402MHz), EUT Horizontal
7346.600	43.6	19.1	1.8	150.0	3.0	0.0	Vert	PK	0.0	62.7	74.0	-11.3	Mid CH (2449MHz), EUT Vertical
7440.087	43.9	19.5	1.5	65.0	3.0	0.0	Vert	AV	-21.7	41.7	54.0	-12.3	High CH (2480MHz), EUT Vertical
7347.020	42.3	19.1	1.6	47.0	3.0	0.0	Horz	PK	0.0	61.4	74.0	-12.6	Mid CH (2449MHz), EUT Horizontal
7440.060	40.8	19.5	1.0	287.0	3.0	0.0	Horz	AV	-21.7	38.6	54.0	-15.4	High CH (2480MHz), EUT Horizontal
4803.813	46.7	10.2	1.5	168.0	3.0	0.0	Horz	PK	0.0	56.9	74.0	-17.1	Low CH (2402MHz), EUT Horizontal
7347.027	39.2	19.1	1.8	150.0	3.0	0.0	Vert	AV	-21.7	36.6	54.0	-17.4	Mid CH (2449MHz), EUT Vertical
4897.553	46.1	10.5	1.0	165.0	3.0	0.0	Horz	PK	0.0	56.6	74.0	-17.4	Mid CH (2449MHz), EUT Horizontal
4804.380	46.1	10.2	1.0	188.0	3.0	0.0	Vert	PK	0.0	56.3	74.0	-17.7	Low CH (2402MHz), EUT Vertical
4959.973	44.8	10.7	1.3	26.0	3.0	0.0	Vert	PK	0.0	55.5	74.0	-18.5	High CH (2480MHz), EUT Vertical
4959.867	44.6	10.7	1.3	26.0	3.0	0.0	Horz	PK	0.0	55.3	74.0	-18.7	High CH (2480MHz), EUT Horizontal
4897.933	44.3	10.5	1.0	25.0	3.0	0.0	Vert	PK	0.0	54.8	74.0	-19.2	Mid CH (2449MHz), EUT Vertical
7347.027	37.2	19.1	1.6	47.0	3.0	0.0	Horz	AV	-21.7	34.6	54.0	-19.4	Mid CH (2449MHz), EUT Horizontal
9796.193	66.2	-12.6	1.1	141.0	3.0	0.0	Vert	PK	0.0	53.6	74.0	-20.4	Mid CH (2449MHz), EUT Vertical
4804.033	43.9	10.2	1.5	168.0	3.0	0.0	Horz	AV	-21.7	32.4	54.0	-21.6	Low CH (2402MHz), EUT Horizontal
9920.047	64.3	-12.4	1.0	146.0	3.0	0.0	Vert	PK	0.0	51.9	74.0	-22.1	High CH (2480MHz), EUT Vertical
9607.173	64.5	-12.8	1.0	166.0	3.0	0.0	Vert	PK	0.0	51.7	74.0	-22.3	Low CH (2402MHz), EUT Vertical
4898.047	42.8	10.5	1.0	165.0	3.0	0.0	Horz	AV	-21.7	31.6	54.0	-22.4	Mid CH (2449MHz), EUT Horizontal
4804.027	43.1	10.2	1.0	188.0	3.0	0.0	Vert	AV	-21.7	31.6	54.0	-22.4	Low CH (2402MHz), EUT Vertical
4960.020	41.7	10.7	1.3	26.0	3.0	0.0	Vert	AV	-21.7	30.7	54.0	-23.3	High CH (2480MHz), EUT Vertical
4960.027	41.5	10.7	1.3	26.0	3.0	0.0	Horz	AV	-21.7	30.5	54.0	-23.5	High CH (2480MHz), EUT Horizontal
9795.667	62.5	-12.6	1.2	241.0	3.0	0.0	Horz	PK	0.0	49.9	74.0	-24.1	Mid CH (2449MHz), EUT Horizontal
9607.973	62.5	-12.8	1.3	64.0	3.0	0.0	Horz	PK	0.0	49.7	74.0	-24.3	Low CH (2402MHz), EUT Horizontal
4898.027	40.8	10.5	1.0	25.0	3.0	0.0	Vert	AV	-21.7	29.6	54.0	-24.4	Mid CH (2449MHz), EUT Vertical
9796.073	63.1	-12.6	1.1	141.0	3.0	0.0	Vert	AV	-21.7	28.8	54.0	-25.2	Mid CH (2449MHz), EUT Vertical
9919.940	60.0	-12.4	1.1	192.0	3.0	0.0	Horz	PK	0.0	47.6	74.0	-26.4	High CH (2480MHz), EUT Horizontal
9920.047	61.2	-12.4	1.0	146.0	3.0	0.0	Vert	AV	-21.7	27.1	54.0	-26.9	High CH (2480MHz), EUT Vertical
9608.080	61.4	-12.8	1.0	166.0	3.0	0.0	Vert	AV	-21.7	26.9	54.0	-27.1	Low CH (2402MHz), EUT Vertical
9796.107	58.7	-12.6	1.2	241.0	3.0	0.0	Horz	AV	-21.7	24.4	54.0	-29.6	Mid CH (2449MHz), EUT Horizontal
9608.040	58.8	-12.8	1.3	64.0	3.0	0.0	Horz	AV	-21.7	24.3	54.0	-29.7	Low CH (2402MHz), EUT Horizontal
9920.093	55.6	-12.4	1.1	192.0	3.0	0.0	Horz	AV	-21.7	21.5	54.0	-32.5	High CH (2480MHz), EUT Horizontal