

**TEST REPORT CONCERNING THE COMPLIANCE OF A  
DXX: Part 15 Low Power Device Transmitter,  
OPERATING on 3.59 MHz,  
BRAND MYLAPS, MODEL X2 Transponder  
WITH 47 CFR PART 15 (10-1-15 Edition).**

15091401.fcc01  
October 04, 2016

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## MEASUREMENT/TECHNICAL REPORT

**MYLAPS**  
**Model : X2 Transponder**

**FCC ID: NXYX2CLUBTX**  
**IC: Not applicable**

This report concerns: Original grant/certification <del>Class 2 change</del> Verification	
Equipment type: DXX: Part 15 Low Power Device Transmitter	
Report prepared by:	Name : Richard van der Meer Company name : TÜV Rheinland Nederland B.V. Address : Eiberkamp 10 Postal code/city : 9351VT Leek Mailing address : P.O. Box 37 Postal code/city : 9350AA Leek Country : The Netherlands Telephone number : + 31 594 505 005 Telefax number : + 31 594 504 804 E-mail : products@nl.tuv.com

The data taken for this test and report herein was done in accordance with 47 CFR Part 15 (10-1-15 Edition) and the measurement procedures of ANSI C63.10-2013. TÜV Rheinland Nederland at Leek, The Netherlands, certifies that the data is accurate and contains a true representation of the emission profile of the Equipment Under Test (EUT) on the date of the test as noted in the test report. I have reviewed the test report and find it to be an accurate description of the test(s) performed and the EUT so tested.

Date: October 04, 2016

Signature:



P. de Beer  
Senior Technical Expert TÜV Rheinland Nederland B.V.

**Description of test item**

Test item : DXX: Part 15 Low Power Device Transmitter  
Manufacturer : MYLAPS BV  
Brand : MYLAPS  
Model(s) : X2 Transponder (MX, Kart and Car/Bike)  
Serial number(s) : MX= 9987133, Kart= 7859398 and Car/Bike=6776103  
Revision : --  
FCC ID : NXYX2CLUBTX  
IC : Not Applicable  
Receipt date : October 26, 2015

**Applicant information**

Applicant's representative : Bas van Rens  
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City : Haarlem  
Country : Netherlands  
Telephone number : +31 (0)23 7600100  
Telefax number : --  
E-mail : Bas.van.rens@mylaps.com

**Test(s) performed**

Location : Leek  
Test(s) started : November 23, 2015  
Test(s) completed : September 09, 2016  
Purpose of test(s) : Equipment Authorization (original certification)  
Test specification(s) : 47 CFR Part 15 (10-1-15 Edition)

Test engineer(s) : R. van der Meer 

Report written by : R. van der Meer 

Report date : October 04, 2016

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The test results relate only to the item(s) tested.

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## 1 General information.

### 1.1 Product description.

#### 1.1.1 Introduction.

The product tested is part of an inductive lap timing system used in various types of sports. The brand MYLAPS model X2 Transponder covers 3 submodels, knowing MX, Kart and Car/Bike. The associated model RaceKey is used for registration of the EUT before it can be used and it is used for charging the X2 Transponders.

The content of this report and measurement results have not been changed other than the way of presenting the data.

### 1.2 Related submittal(s) and/or Grant(s).

#### 1.2.1 General.

This test report supports the original certification in equipment authorization files under **FCC ID: NXYX2CLUBTX**.

### 1.3 Test results summary

The EUT was tested in accordance with the specifications given in the table below.

Test Standard	Description	Page	Result Pass / Fail
<b>47 CFR Part 15 (10-1-15 Edition)</b>			
15.207(a)	AC power-line conducted emissions	--	Not Applicable
15.209, 15.223	Radiated emissions	90 - 17	Pass
15.215(c), 15.223	Occupied bandwidth and Bandwidth of the emission	18 - 23	Pass

Table 1a: testspecifications

Testmethods: ANSI C63.10-2013

## 2 Tested system details.

2.1 Details and an overview of the system and all of its components, as it has been tested, may be found below.

EUT	:	DXX: Part 15 Low Power Device Transmitter
Manufacturer	:	MYLAPS BV
Brand	:	MYLAPS
Model	:	X2 Transponder (MX, Kart and Car/Bike)
Serial number	:	MX= 9987133, Kart= 7859398 and Car/Bike=6776103
Operating frequency	:	3.59 MHz
Modulation	:	BPSK
Voltage input rating	:	12 Vdc
Voltage output rating	:	n.a.
Current input rating	:	--
Antenna	:	Internal
Remarks	:	n.a.
Interface cable(s)	:	n.a.
Operating configuration	:	continuously transmitting

### 2.2 Description of input and output ports.

The EUT is tested stand-alone.



Figure 1. Basic set-up for testing, EUT tested stand alone

### 2.3 Test methodology.

The test methodology used is based on the requirements of 47 CFR Part 15 (10-1-15 Edition), sections 15.31, 15.209, 15.215 and 15.223. The test methods, which have been used, are based on ANSI C63.10-2013

Radiated emission tests above 30 MHz were performed at a measurement distance of 3 meters.  
Radiated emission tests below 30 MHz were performed at a measurement distance of 3 meters. To calculate the field strength level from these results to the appropriate distance at which the limit is specified, the appropriate extrapolation factor is used.

The receiver is switching automatically to the right bandwidth in accordance with CISPR 16. This is implemented in the receiver. The antenna factors are programmed in the test receiver. The receiver automatically calculates the appropriate correction factor for the utilized antenna and cable loss. The total correction is automatically added to the measured value.

### 2.4 Test facility.

The Federal Communications Commission and Industry Canada has reviewed the technical characteristics of the test facilities at TÜV Rheinland Nederland B.V., located in Leek, 9351VT Eiberkamp 10, The Netherlands, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948.

The description of the test facilities has been filed at the Office of the Federal Communications Commission under registration number 90828. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

The description of the test facilities has been filed to Industry Canada under registration number 2932G-2. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

### 2.5 Test conditions.

Normal test conditions:

Temperature (*)	: +15°C to +35°C
Relative humidity(*)	: 20 % to 75 %
Supply voltage	: 120Vac/60Hz
Air pressure	: 950 – 1050 hPa

\*When it was impracticable to carry out the tests under these conditions, a note to this effect stating the ambient temperature and relative humidity during the tests are stated separately.

### 2.6 Measurement Uncertainty

Compliance of the product is based on the measured value. However, the measurement uncertainty is included for informational purposes.

The expanded uncertainty ( $k = 2$ ) for radiated emissions below 1000 MHz has been determined to be:  $\pm 5.0$  dB at 3m.  
The expanded uncertainty ( $k = 2$ ) for radiated emissions above 1000 MHz has been determined to be:  $\pm 5.0$  dB at 3m  
The expanded uncertainty ( $k = 2$ ) for mains conducted emissions from 150 kHz to 30 MHz has been determined to be:  $\pm 3.5$  dB.

## **3 System test configuration.**

### **3.1 Justification.**

The system was configured for testing in a typical fashion (as a customer would normally use it). This report covers the EUT as a stand-alone transmitter. Test regarding the use of the EUT in combination with the model RaceKey is covered in a separate Part 15B testreport.

The justification and manipulation of cables and equipment in order to simulate a worst-case behavior of the test setup has been carried out as prescribed in ANSI C63.10-2013.

### **3.2 EUT mode of operation.**

The EUT has been tested while continuously transmitting. The intentional radiator tests have been performed with a complete functioning EUT.

### **3.3 Special accessories.**

No special accessories are used and/or needed to achieve compliance.

### **3.4 Equipment modifications.**

No modifications have been made to the equipment in order to achieve compliance.

### **3.5 Product Labeling**

The product labeling information is available in the technical documentation package.

### **3.6 Block diagram of the EUT.**

The block diagram is available in the technical documentation package.

### **3.7 Schematics of the EUT.**

The schematics are available in the technical documentation package.



## 4 Radiated emission data.

### 4.1 Radiated emission data, H-field

**RESULT: Pass**

Date of testing: 2015-11-23

Frequency range: 9kHz - 30 MHz

Requirements:

FCC 15.209, FCC 15.223 and 15.35.

(a) The field strength of any emission within the band 1.705-10.0 MHz shall not exceed 100 microvolts/meter (40 dB $\mu$ V/m) at a distance of 30 meters. However, if the bandwidth of the emission is less than 10% of the center frequency, the field strength shall not exceed 15 microvolts/meter ( 23.5 dB $\mu$ V/m) or (the bandwidth of the device in kHz) divided by (the center frequency of the device in MHz) microvolts/meter at a distance of 30 meters, whichever is the higher level. For the purposes of this section, bandwidth is determined at the points 6 dB down from the modulated carrier. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in §15.35(b) for limiting peak emissions apply.

(b) The field strength of emissions outside of the band 1.705-10.0 MHz shall not exceed the general radiated emission limits in §15.209.

15.209 (a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/meter)	Field strength (dB $\mu$ V/m)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	43.5-13.8	300
0.490-1.705	24000/F(kHz)	33.8-22.9	30
1.705-30.0	30	29.5	30

Table 2. Field strength limits

Test procedure:

ANSI C63.10-2013.

The EUT was placed on a nonconductive turntable 0.8m above the ground plane. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The physical arrangement of the test system, the associated cabling and the EUT orientation (X, Y, Z) were varied in order to ensure that maximum emission amplitudes were attained.

Radiated emission testing was performed at a distance of 3 meters in a 5 meter semi-anechoic chamber. The measured values were corrected to the 30m distance using the extrapolation factor of 40dB/decade as per FCC Part 15.31(f)(2).

At each frequency where a spurious emission was found, the EUT was rotated 360° and the antenna was raised and lowered from 1 to 4m in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations.

The six highest emission amplitudes relative to the appropriate limit were recorded in this report. Field strength values of radiated emissions at frequencies not listed in the tables are more than 20 dB below the applicable limit.

#### 4.2 Radiated field strength measurements H-field, frequency range of 0.009-30 MHz.

Frequency (MHz)	(a) Measurement results (dB $\mu$ V)	(b) Antenna factor	(c) Cable loss	(d) Distance extrapolation factor 3m to 30m	Detector	Measurement results (calculated = a+b+c-d)	Limits
	3 m	dB	dB	dB		dB $\mu$ V/m @30m	dB $\mu$ V/m @30m
3.591 fundamental	43.6	19.5	1	40	Pk	24.1	60.0
3.591 fundamental	24.1@30m	--	--	--	Av	24.1	40.0
7.18 <sup>H</sup>	13.9	19.6	1	40	Pk	-5.5	60.0
7.18 <sup>H</sup>	-5.5 @30m	--	--	--	Av	-5.5	40.0
10.77 <sup>H</sup>	6.0	19.6	1	40	Qp	-13.4	29.5
14.36 <sup>H</sup>	5.6	19.7	1	40	Qp	-13.7	29.5

Table 3a Radiated emissions of the EUT (submodel MX).

Frequency (MHz)	(a) Measurement results (dB $\mu$ V)	(b) Antenna factor	(c) Cable loss	(d) Distance extrapolation factor 3m to 30m	Detector	Measurement results (calculated = a+b+c-d)	Limits
	3 m	dB	dB	dB		dB $\mu$ V/m @30m	dB $\mu$ V/m @30m
3.590 fundamental	33.5	19.5	1	40	Pk	14.0	60.0
3.590 fundamental	14.0@30m	--	--	--	Av	14.0	40.0
7.18 <sup>H</sup>	14.4	19.6	1	40	Pk	-5.0	60.0
7.18 <sup>H</sup>	-5.0 @30m	--	--	--	Av	-5.0	40.0
10.77 <sup>H</sup>	5.9	19.6	1	40	Qp	-13.5	29.5
14.36 <sup>H</sup>	5.6	19.7	1	40	Qp	-13.7	29.5

Table 3b Radiated emissions of the EUT (submodel Kart).

Frequency (MHz)	(a) Measurement results (dB $\mu$ V)	(b) Antenna factor	(c) Cable loss	(d) Distance extrapolation factor 3m to 30m	Detector	Measurement results (calculated = a+b+c-d)	Limits
	3 m	dB	dB	dB		dB $\mu$ V/m @30m	dB $\mu$ V/m @30m
3.590 fundamental	44.6	19.5	1	40	Pk	25.1	60.0
3.590 fundamental	25.1 @30m	--	--	--	Av	25.1	40.0
7.18 <sup>H</sup>	14.5	19.6	1	40	Pk	-4.9	60.0
7.18 <sup>H</sup>	-4.9 @30m	--	--	--	Av	-4.9	40.0
10.74 <sup>H</sup>	6.0	19.6	1	40	Qp	-13.4	40.0
14.36 <sup>H</sup>	5.6	19.7	1	40	Qp	-13.7	29.5

Table 3c Radiated emissions of the EUT (submodel Car/Bike).

The results of the radiated emission tests in the frequency range 0.009 – 30 MHz, carried out in accordance with 47 CFR Part 15 section 15.209 and 15.223 with the EUT operating in continuous transmit mode, are depicted in Tables 3a, 3b and 3c. See notes on the next page.

The measured 6 dB bandwidth is 0.436 MHz (the smallest bandwidth measured of the 3 submodels) (see section 6) which is more than 0.359 MHz (10% of the 3.59 MHz of center frequency), hence the limit for the field strength is 100 microvolts/meter (40 dB $\mu$ V/m) at a distance of 30 meters.

**Notes:**

1. Calculated measurement results are obtained by using the 40 dB/decade extrapolation factor and the antenna factor and cable loss is included. For instance the corrected value for 3.59 MHz fundamental frequency is calculated as:  
 Measurement result + Antenna Factor + Cable loss – Extrapolation Factor =>  
 44.6 dBµV + 19.5 dB + 1 dB – 40 dB = 25.1 dBµV/m.
2. In the frequency range 1705 kHz – 10 MHz Peak detector used during measurements with a resolution bandwidth of 9kHz was used and the average value was calculated from that Pk value and the duty cycle. For the frequency range 10 MHz – 30 MHz a Quasi peak detector used during measurements with a resolution bandwidth of 9kHz was used.
3. Field strength values of radiated emissions at frequencies in the frequency range 0.009 – 30 MHz not listed in Tables 3a,3b and 3c are more than 20 dB below the applicable limit. The reported value is the worst case found at the reported frequency. Worst case values proved to be of EUT in horizontal position.
4. The measurement distance was 3m and measured values were corrected to the applicable limit distance.
5. Measured Peak (Pk) values were already within Average (Av) limits, therefor Av not tested.
6. Measurement uncertainty is ±5.0dB.
7. See plot 2a, 2c and 2e on pages 19 and following for the 6 dB bandwidth , which determines the applicable limit for the fundamental.
8. Tested as per setup Figure 1. EUT as a stand-alone item.

Used test equipment and ancillaries:

A01491	A00235	A00141	A00314		

The complete list of used equipment can be found in section 7 of this testreport.

Test engineer

Signature : 

Name : R. van der Meer

Date : November 23, 2015

### 4.3 Radiated field strength measurements (30 MHz – 1 GHz, E-field)

#### RESULT: PASS

Date of testing: 2015-11-23

Frequency range: 30MHz - 1GHz

Requirements:

FCC 15.205 and 15.209.

Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a), must comply with the radiated emission limits specified in FCC 15.209(a).

Radiated emissions which fall outside the operation frequency band and outside restricted bands shall either meet the limit specified in FCC 15.209(a) or be attenuated at least 20dB below the power level in the 100kHz bandwidth within the band that contains the highest level of the desired power (the less severe limit applies).

Frequency (MHz)	Field strength (µV/meter)	Field strength (dBµV/m)	Measurement distance (meters)
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Table 4: applicable limits

Test procedure:

ANSI C63.10-2013.

The EUT was placed on a nonconductive turntable 0.8m above the ground plane. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The physical arrangement of the test system, the associated cabling and the EUT orientation (X, Y, Z) were varied in order to ensure that maximum emission amplitudes were attained.

Final E-field radiated emission measurements were made at 3m distance.

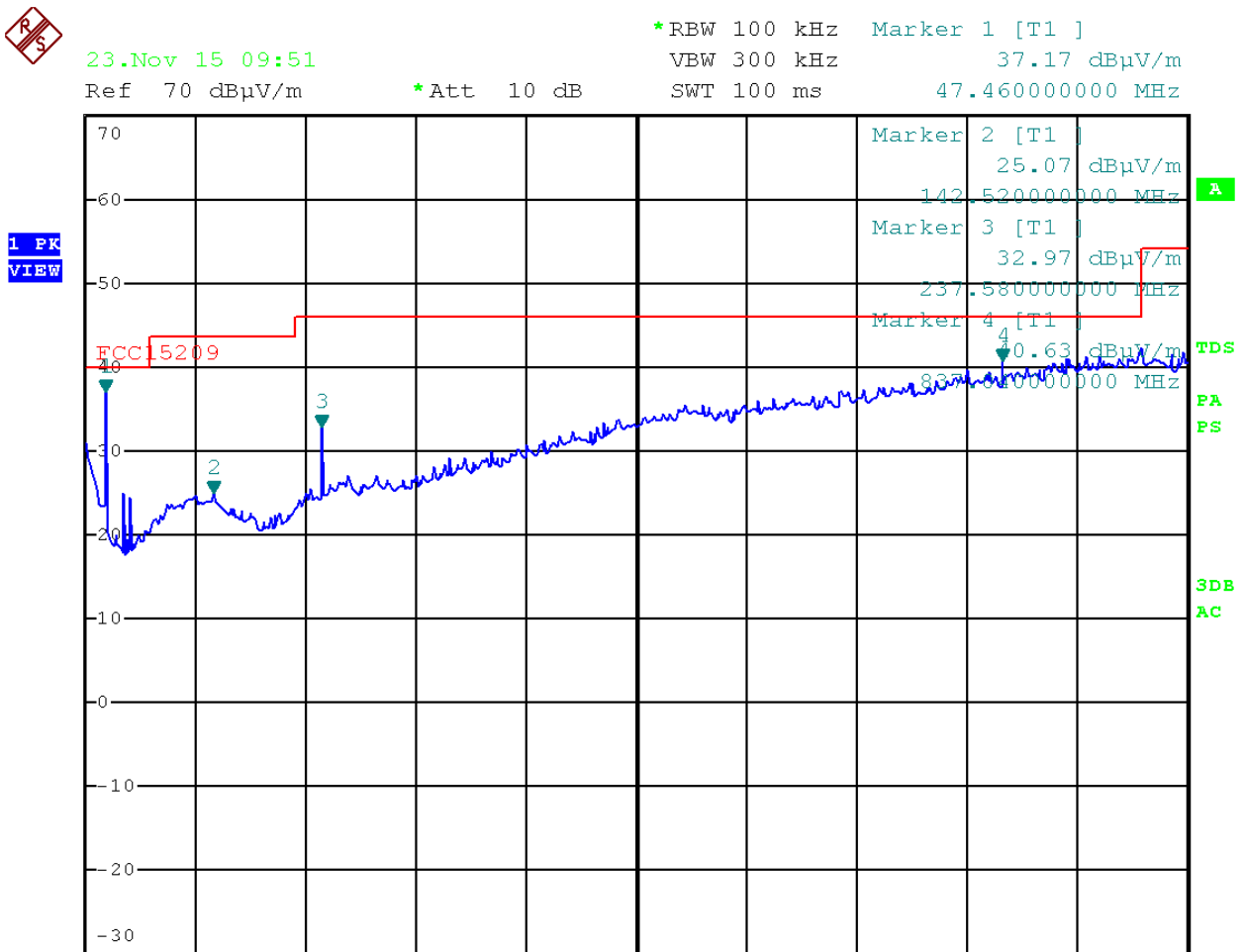
At each frequency where a spurious emission was found, the EUT was rotated 360° and the antenna was raised and lowered from 1 to 4m in order to determine the emission's maximum level. Measurements were taken using both horizontal and vertical antenna polarizations.

The six highest emission amplitudes relative to the appropriate limit were recorded in this report. Field strength values of radiated emissions at frequencies not listed in the tables are more than 20 dB below the applicable limit

Measurement uncertainty is ±5.0dB.

Frequency [MHz]	Antenna Orientation	Detector/ Bandwidth	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]
47.460	Horizontal	Qp / 120 kHz	34.1	40.0	Pass
62.980	Horizontal	Qp / 120 kHz	22.3	40.0	Pass
68.800	Horizontal	Qp / 120 kHz	22.2	40.0	Pass
142.520	Horizontal	Qp / 120 kHz	22.5	43.5	Pass
237.580	Horizontal	Qp / 120 kHz	29.9	46.0	Pass
837.040	Vertical	Qp / 120 kHz	39.5	46.0	Pass

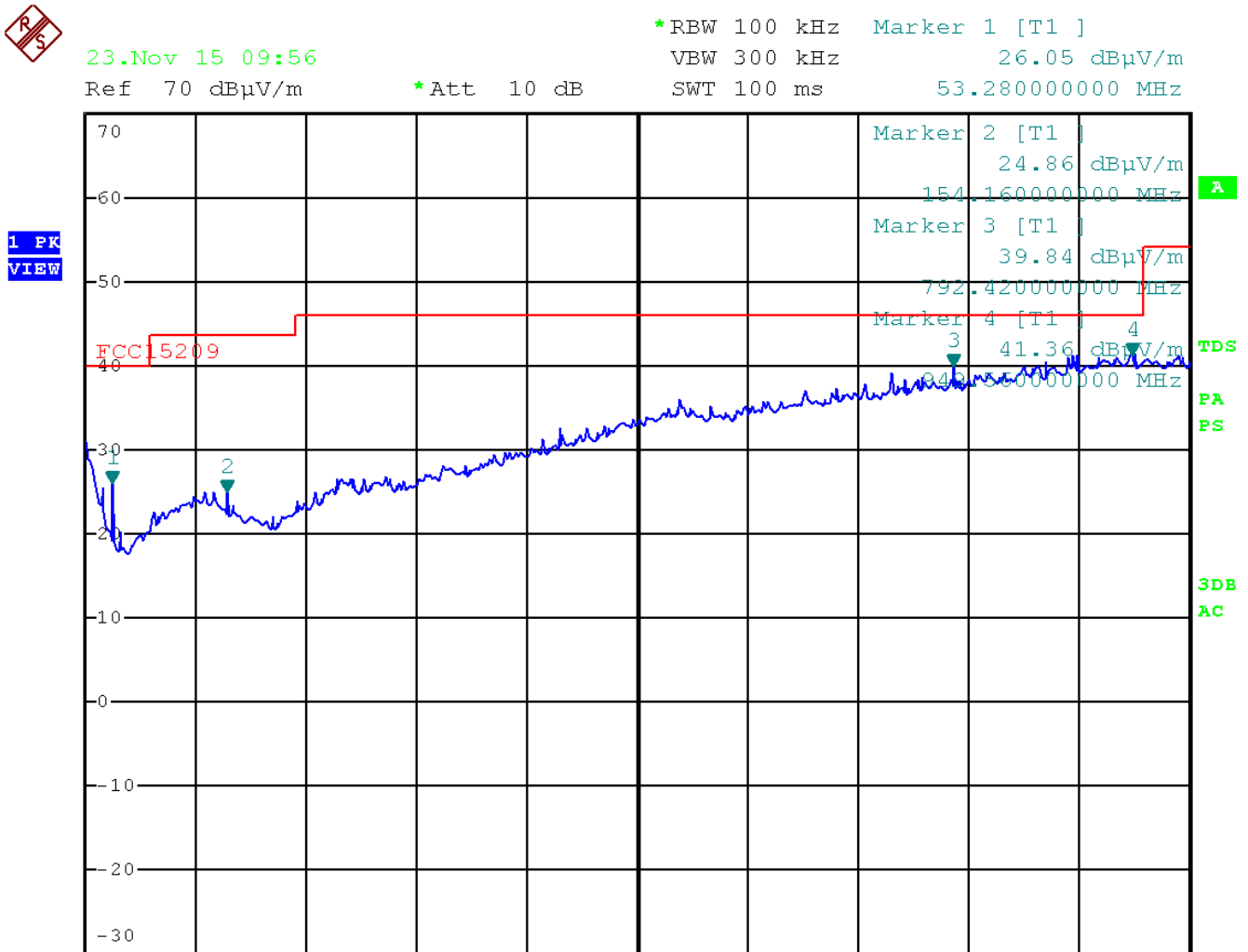
Table 5a Radiated emissions of the EUT (submodel MX).



Plot 5a Radiated emissions (Peak values) of the EUT (submodel MX)

Frequency [MHz]	Antenna Orientation	Detector/ Bandwidth	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]
45.520	Horizontal	Qp / 120 kHz	23.9	40.0	Pass
53.280	Horizontal	Qp / 120 kHz	23.8	40.0	Pass
142.520	Horizontal	Qp / 120 kHz	23.1	43.5	Pass
154.160	Horizontal	Qp / 120 kHz	22.7	43.5	Pass
792.420	Vertical	Qp / 120 kHz	37.4	46.0	Pass
949.560 (noise)	Vertical	Qp / 120 kHz	39.5	46.0	Pass

Table 5b Radiated emissions of the EUT (submodel Kart).

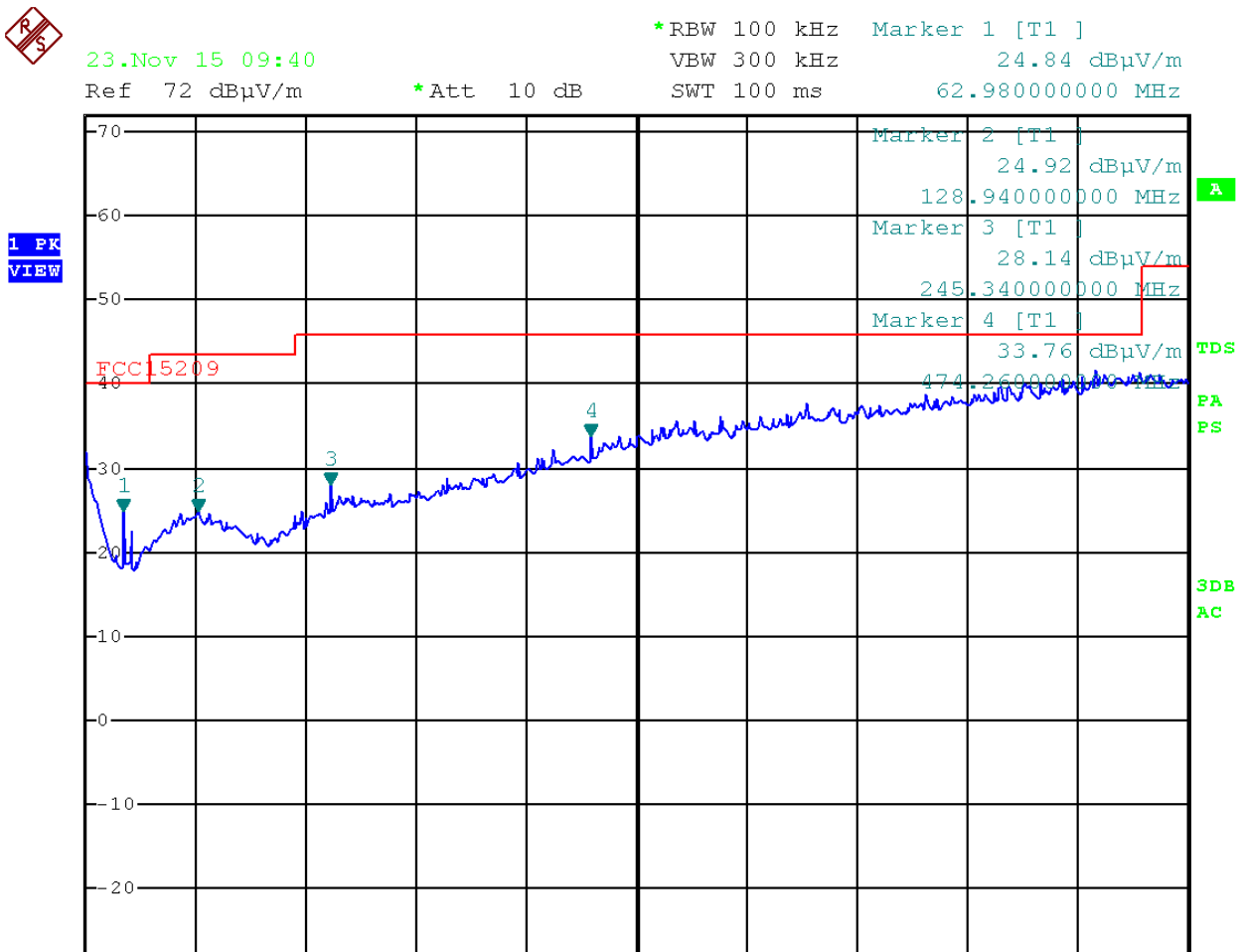


Plot of the Radiated emissions (Peak values) of the EUT (submodel Kart)



Frequency [MHz]	Antenna Orientation	Detector/ Bandwidth	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]
62.980	Horizontal	Qp / 120 kHz	22.7	40.0	Pass
70.740	Horizontal	Qp / 120 kHz	20.5	40.0	Pass
128.940	Horizontal	Qp / 120 kHz	22.2	43.5	Pass
474.260	Vertical	Qp / 120 kHz	30.6	46.0	Pass
664.380	Vertical	Qp / 120 kHz	34.7	46.0	Pass
918.520 (noise)	Vertical	Qp / 120 kHz	39.5	46.0	Pass

Table 5c Radiated emissions of the EUT (submodel Car/Bike).



Plot Radiated emissions (Peak values) of the EUT (submodel Car/Bike).

The results of the radiated emission tests, carried out in accordance with 47 CFR Part 15 section 15.209 are depicted in Table 5a, 5b and 5c. Tested as per Figure 1. EUT as stand-alone.

## 5 Plot of the carrier bandwidth

### 5.1 Bandwidth of the emission

**RESULT: PASS**

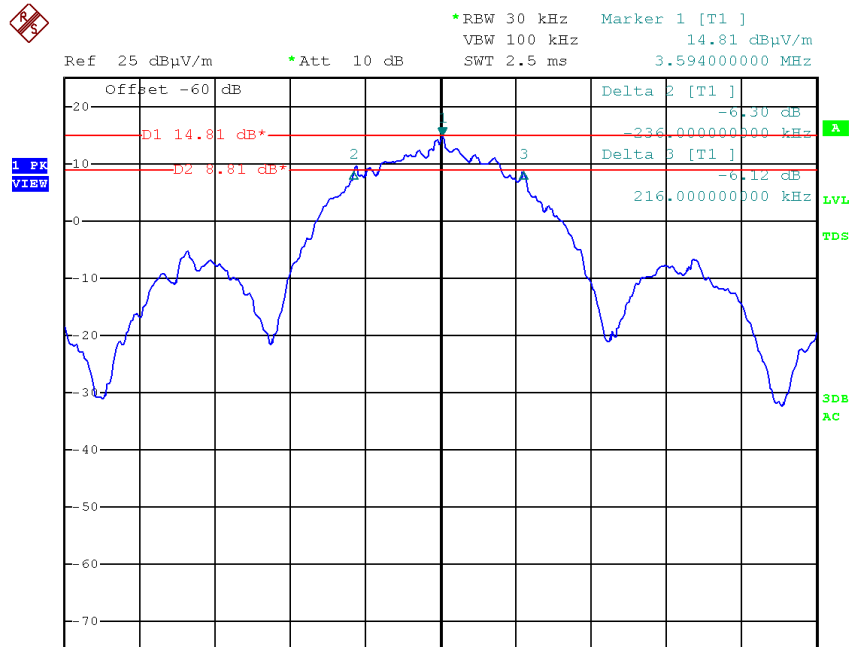
Date of testing: 2015-11-23 and 09-09-2016

#### Requirements:

The 6 dB bandwidth of the fundamental emission shall be measured in order to find out the exact allowed limit of the field strength of any emission within the band 1.705-10.0 MHz.

Testprocedure: ANSI C63.10-2013

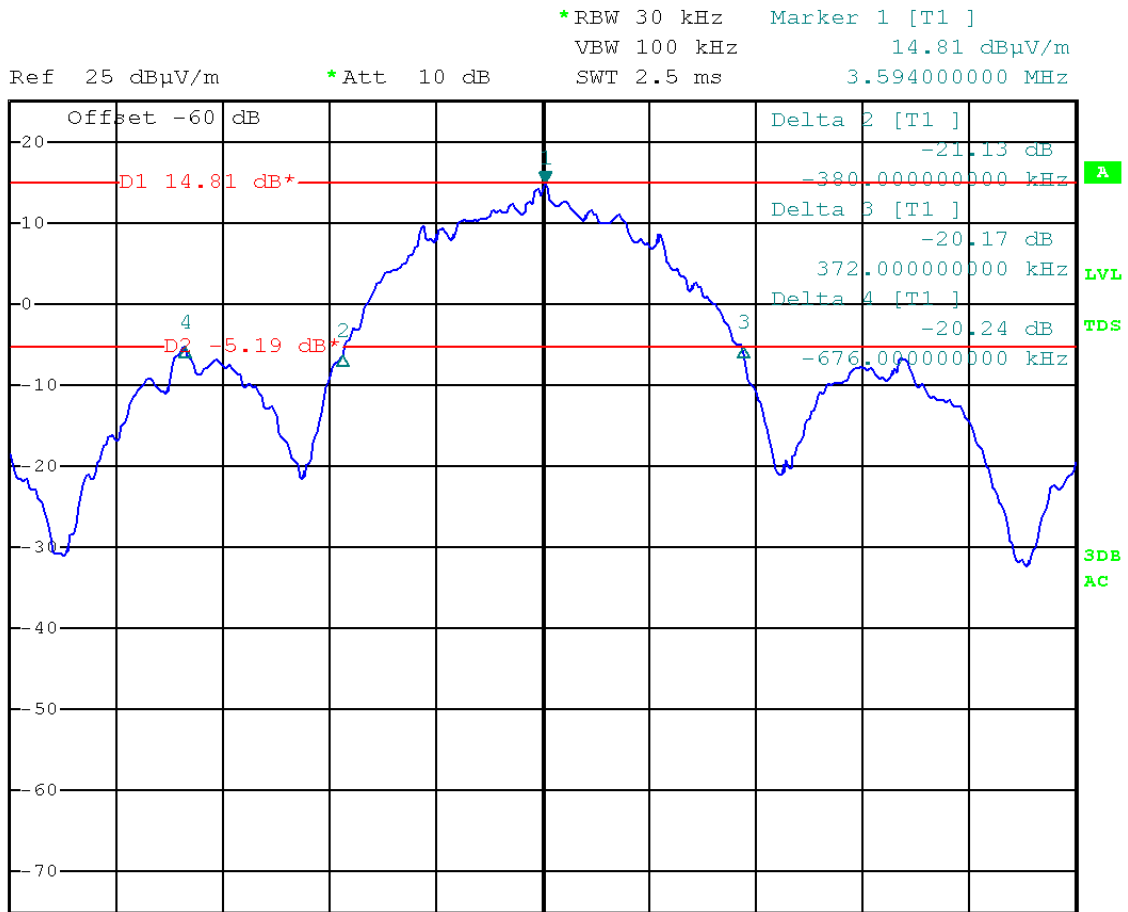
Testresults: as measured on a spectrum analyzer.



ORI

Date: 23.NOV.2015 15:26:41

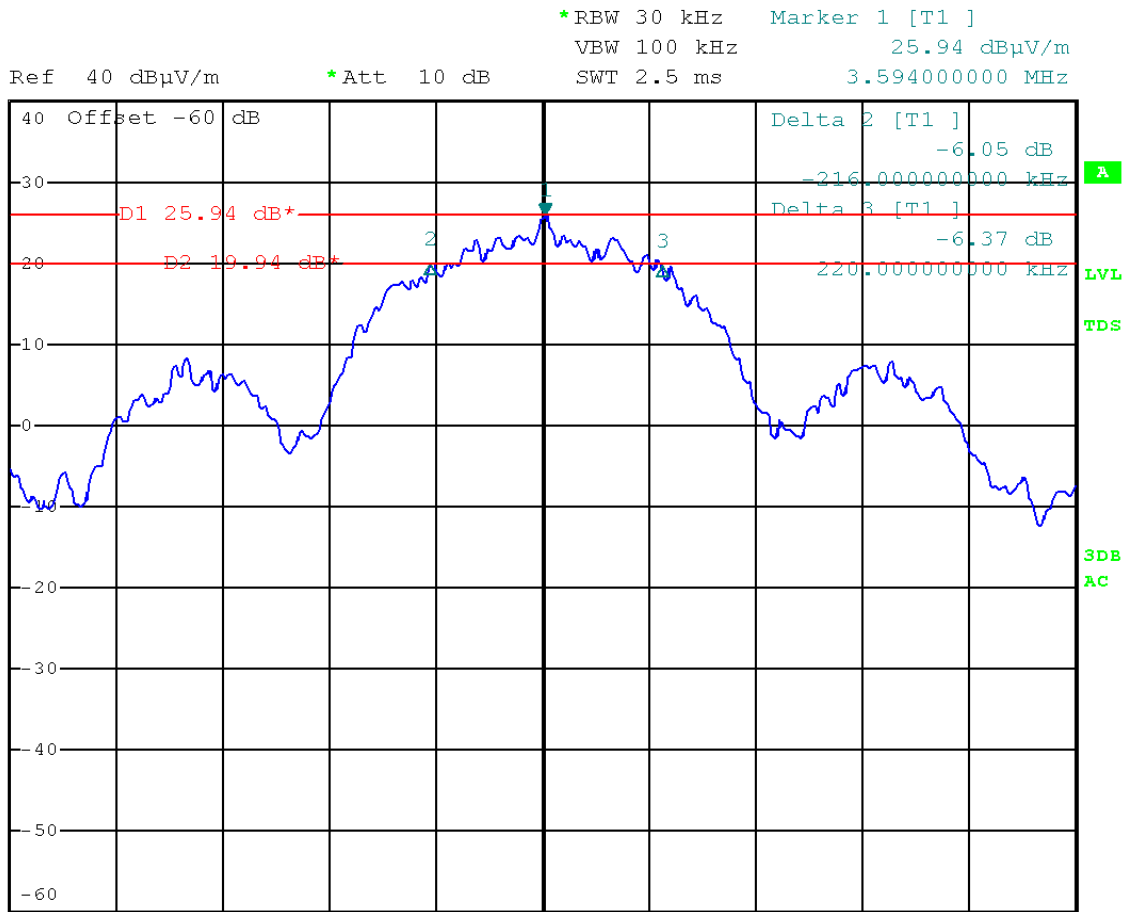
Plot 2a: 6 dB bandwidth of the carrier of the submodel Kart, actual bandwidth is 0.452 MHz, which is more than 10% of the center frequency there for the 40 dBµV/m limit for radiated emissions is applicable according to 47 CFR Part 15.223.



ORI

Date: 23.NOV.2015 15:28:18

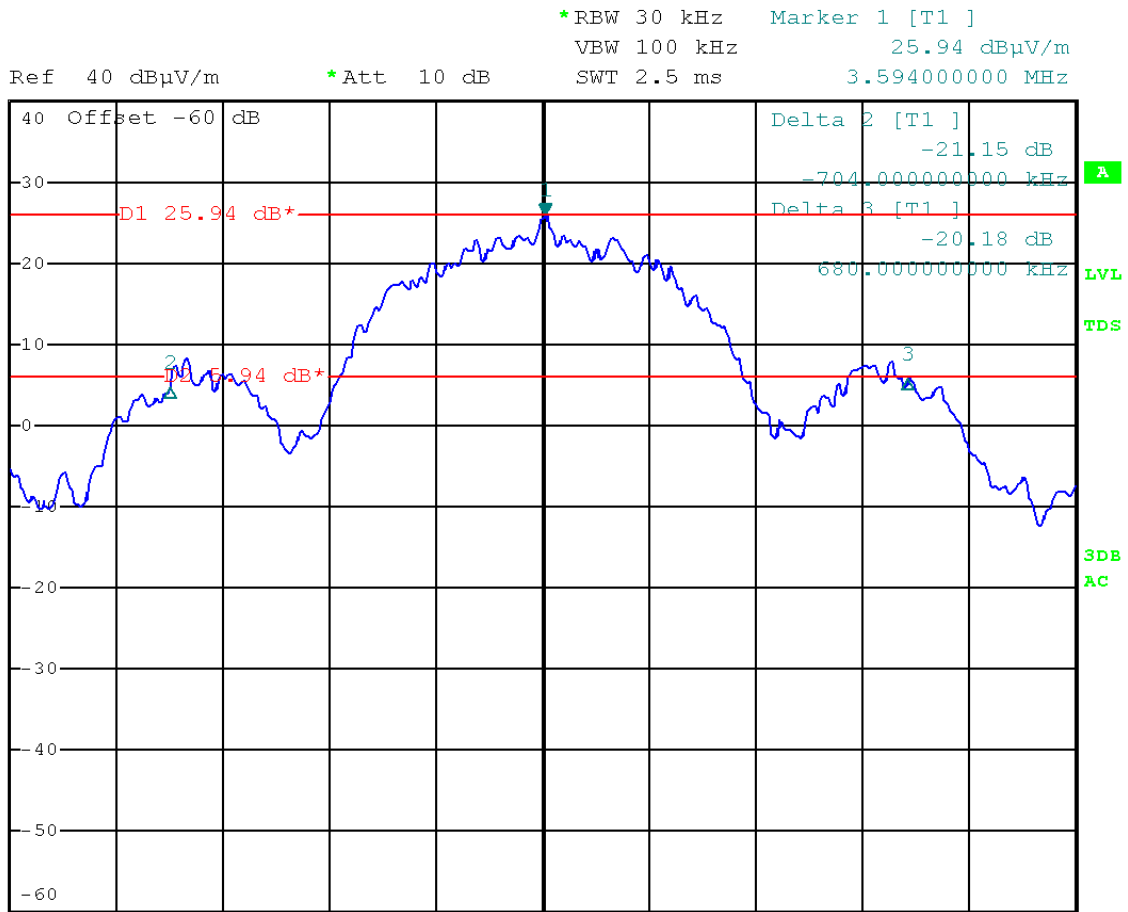
Plot 2b: 20 dB bandwidth of the carrier of the submodel Kart, actual bandwidth is 0.752 kHz as measured on a spectrum analyzer



ORI

Date: 23.NOV.2015 15:22:20

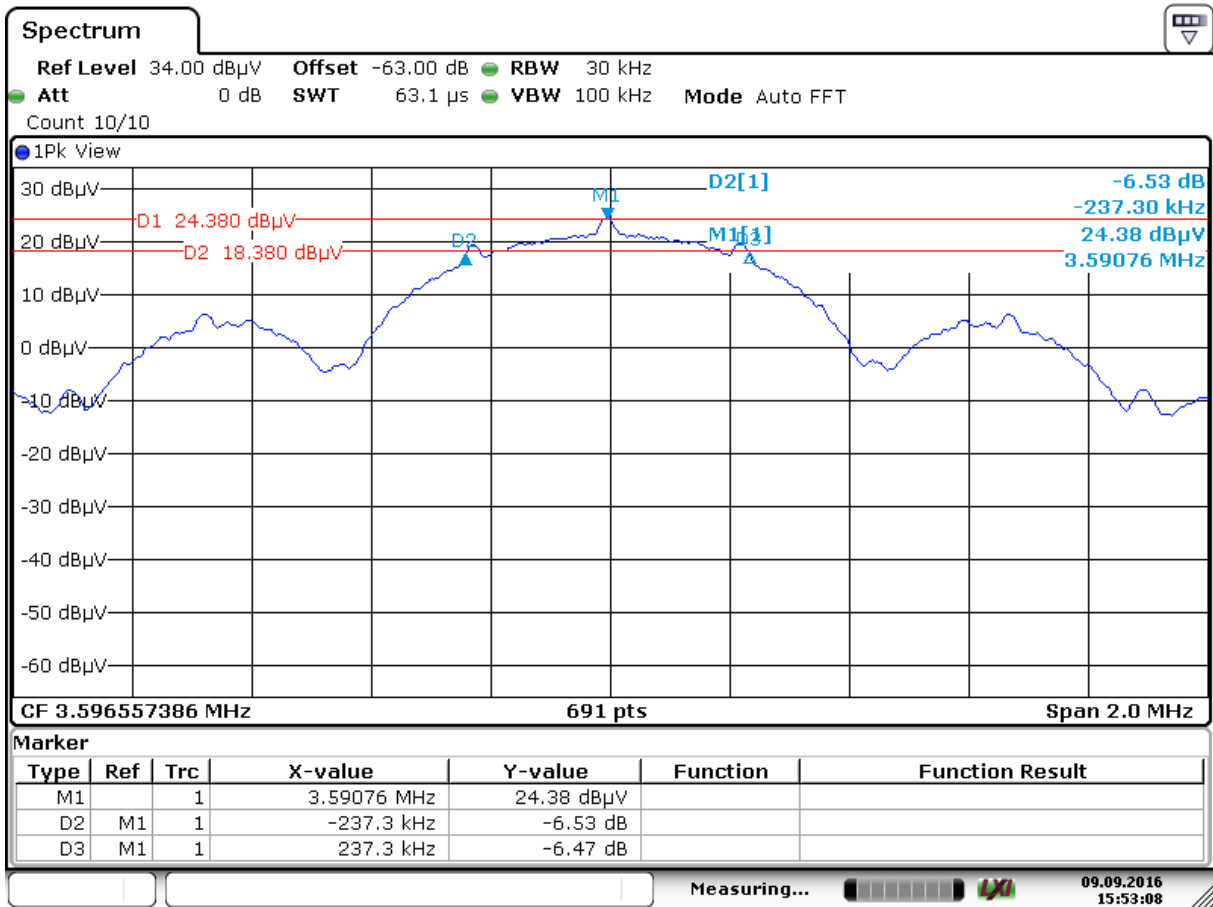
Plot 2c: 6 dB bandwidth of the carrier of the submodel MX, actual bandwidth is 0.436 MHz, which is more than 10% of the center frequency there for the 40 dBµV/m limit for radiated emissions is applicable according to 47 CFR Part 15.223.



ORI

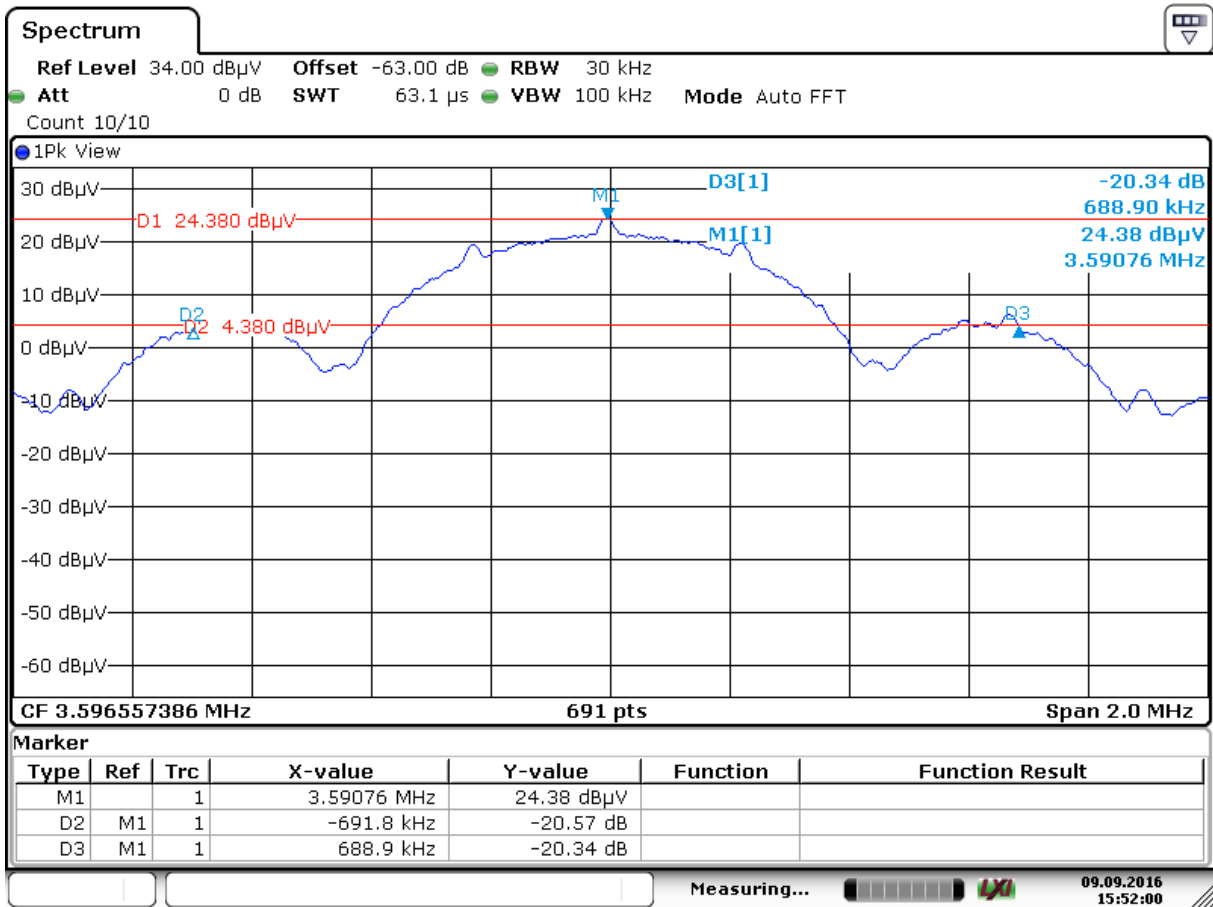
Date: 23.NOV.2015 15:20:43

Plot 2d: 20 dB bandwidth of the carrier of the submodel MX, actual bandwidth is 1384 kHz as measured on a spectrum analyzer



Date: 9.SEP.2016 15:53:09

Plot 2e: 6 dB bandwidth of the carrier of the submodel Car/Bike, actual bandwidth is 0.4746 MHz, which is more than 10% of the center frequency there for the 40 dBμV/m limit for radiated emissions is applicable according to 47 CFR Part 15.223.



Date: 9.SEP.2016 15:52:00

Plot 2f: 20 dB bandwidth of the carrier of the submodel Car/Bike, actual bandwidth is 1380.7 kHz as measured on a spectrum analyzer

Used test equipment and ancillaries:

A00309	A00314	A00444					

The complete list of used equipment can be found in section 7 of this testreport.

## 6 List of utilized test equipment.

Inventory number	Description	Brand	Model	Serial number	Last cal.	Next cal.
A00258	Antenna mast	EMCS	AP-4702C	--	NA	NA
A00447	Cable S-AR	Gigalink	APG0500	--	01/2015	01/2016
A00141	Tripod for A001491	Chase	--	--	NA	NA
A01491	Loop antenna	Chase	HLA6120	1107	05/2015	05/2016
A00466	Biconilog Testantenna	Teseq	CBL 6111D	35555	08/2015	08/2016
A00450	Controller	Maturo	SCU/088/80908 11	--	NA	NA
A00446/	Temperature-Humiditymeter	Extech	SD500	--	04/2015	04/2017
A00235	Test site	Comtest	FCC listed: 90828	--	04/2014	04/2017
A00309	Loop antenna, 6cm	NA	7405-901	--	09/2015	09/2017
A00726	Measurement receiver	R&S	ESCS30	100313	10/2015	10/2016

NA= Not Applicable

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