

## **Certification Test Report**

**FCC ID: R7PEC1R1S1**

**FCC Rule Part: 15.247**

**ACS Report Number: 12-0278.W03.1C**

Manufacturer: Landis+Gyr Technology Inc.  
Model: Elster Multi-Function Meter Module

Test Begin Date: Septemeber 20, 2013

Test End Date: October 11, 2013

Report Issue Date: November 12, 2013



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Reviewed by:

A handwritten signature in black ink, appearing to read 'Kirby Munroe', is written over a horizontal line.

**Kirby Munroe**  
**Director, Wireless Certifications**  
**ACS, Inc.**

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**This report contains 20 pages**

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**1 GENERAL****1.1 Purpose**

The purpose of this report is to demonstrate compliance with Part 15 Subpart C of the FCC's Code of Federal Regulations and Industry Canada's Radio Standards Specification RSS-210 for single modular approval certification.

**1.2 Product Description**

The Elster Multi-Function Meter Module (Elster MFMM) is a multi-function meter module that is installed in a specific host meter as the option board. The MFMM reads metering and event data from the host meter through the option board interface serial port and transmits the collected data using a short-range radio frequency spread spectrum modulation technique.

## Technical Information:

Band of Operation: 917.58 MHz

Number of Channels: 1

Modulation Format: OOK

Antenna Type/Gain: Flex dipole antenna, 0dBi gain

Operating Voltage: 12VDC

## Manufacturer Information:

Landis+Gyr Technology, Inc.

30000 Mill Creek Ave., Suite 100

Alpharetta, GA 30022

Test Sample Serial Number(s): C520M211300002728

Test Sample Condition: The test samples were provided in good working order with no visible defects.

**1.3 Test Methodology and Considerations**

For radiated emissions, including band edge, the EUT was evaluated in an orientation representative of final installation.

## **2 TEST FACILITIES**

### **2.1 Location**

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions  
5015 B.U. Bowman Drive  
Buford, GA 30518  
Phone: (770) 831-8048  
Fax: (770) 831-8598

### **2.2 Laboratory Accreditations/Recognitions/Certifications**

ACS is accredited to ISO/IEC 17025 by the National Institute of Standards and Technology under their National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 200612-0. Unless otherwise specified, all tests methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

The Semi-Anechoic Chamber Test Site, Open Area Test Site (OATS) and Conducted Emissions Site have been fully described, submitted to, and accepted by the FCC, Industry Canada and the Japanese Voluntary Control Council for Interference by information technology equipment.

FCC Registration Number: 511277  
Industry Canada Lab Code: IC 4175A-1  
VCCI Member Number: 1831

- VCCI OATS Registration Number R-1526
- VCCI Conducted Emissions Site Registration Number: C-1608

**2.3 Radiated Emissions Test Site Description**

**2.3.1 Semi-Anechoic Chamber Test Site**

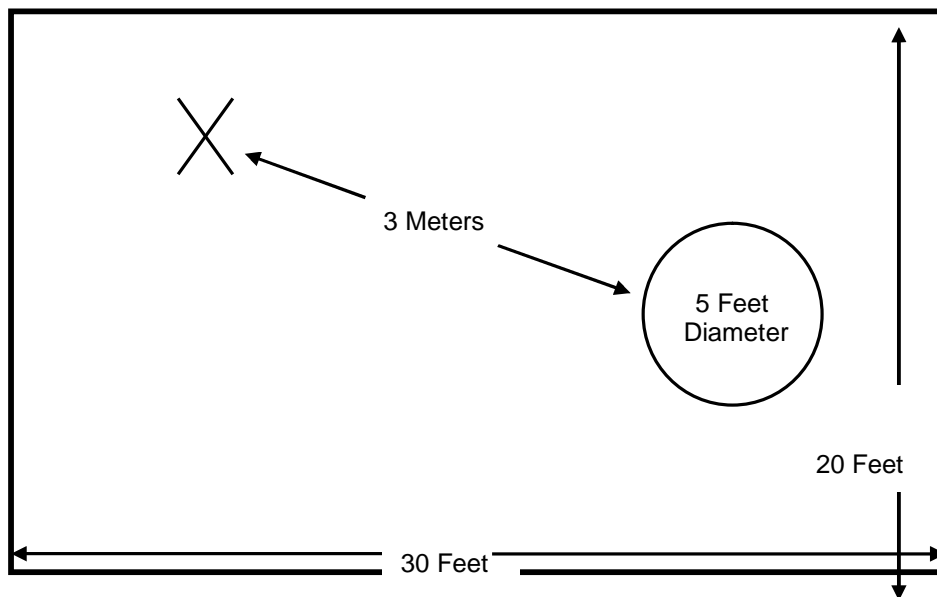
The Semi-Anechoic Chamber Test Site consists of a 20' x 30' x 18' shielded enclosure. The chamber is lined with Toyo Ferrite Grid Absorber, model number FFG-1000. The ferrite tile grid is 101 x 101 x 19mm thick and weighs approximately 550 grams. These tiles are mounted on steel panels and installed directly on the inner walls of the chamber.

The turntable is 150cm in diameter and is located 160cm from the back wall of the chamber. The chamber is grounded via 1 - 8' copper ground rod, installed at the center of the back wall, it is bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is all steel, flush mounted table installed in an all steel frame. The table is remotely operated from inside the control room located 25' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Behind the turntable is a 3' x 6' x 4' deep shielded pit used for support equipment if necessary. The pit is equipped with 1 - 4" PVC chases from the turntable to the pit that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit.

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3-1 below:



**Figure 2.3-1: Semi-Anechoic Chamber Test Site**

**2.3.2 Open Area Tests Site (OATS)**

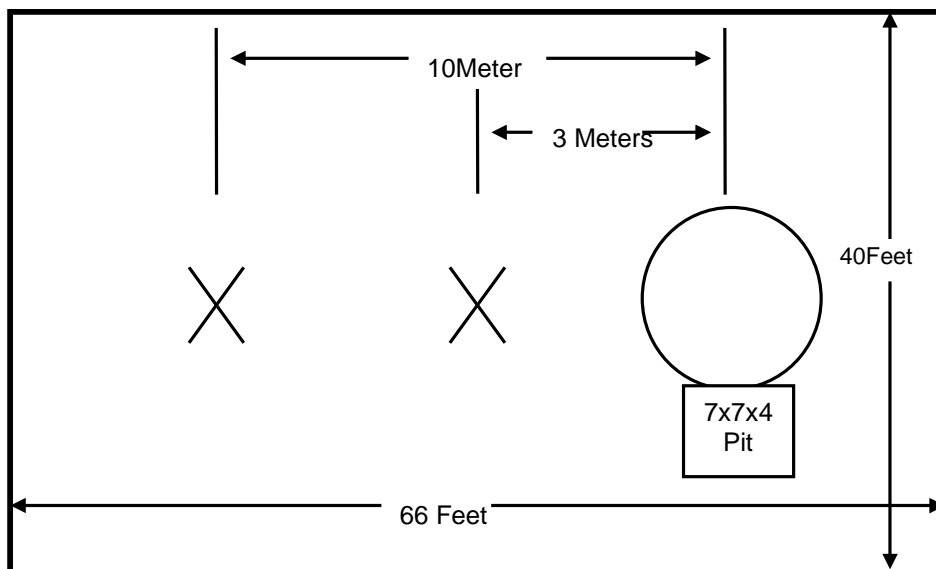
The open area test site consists of a 40' x 66' concrete pad covered with a perforated electroplated galvanized sheet metal. The perforations in the sheet metal are 1/8" holes that are staggered every 3/16". The individual sheets are placed to overlap each other by 1/4" and are riveted together to provide a continuous seam. Rivets are spaced every 3" in a 3 x 20 meter perimeter around the antenna mast and EUT area. Rivets in the remaining area are spaced as necessary to properly secure the ground plane and maintain the electrical continuity.

The entire ground plane extends 12' beyond the turntable edge and 16' beyond the antenna mast when set to a 10 meter measurement distance. The ground plane is grounded via 4 - 8' copper ground rods, each installed at a corner of the ground plane and bound to the ground plane using 3/4" stainless steel braided cable.

The turntable is an all aluminum 10' flush mounted table installed in an all aluminum frame. The table is remotely operated from inside the control room located 40' from the range. The turntable is electrically bonded to the surrounding ground plane via steel fingers installed on the edge of the turn table. The steel fingers make constant contact with the ground plane during operation.

Adjacent to the turntable is a 7' x 7' square and 4' deep concrete pit used for support equipment if necessary. The pit is equipped with 5 - 4" PVC chases from the pit to the control room that allow for cabling to the EUT if necessary. The underside of the turntable can be accessed from the pit so cables can be supplied to the EUT from the pit. The pit is covered with 2 sheets of 1/4" diamond style re-enforced steel sheets. The sheets are painted to match the perforated steel ground plane; however the underside edges have been masked off to maintain the electrical continuity of the ground plane. All reflecting objects are located outside of the ellipse defined in ANSI C63.4.

A diagram of the Open Area Test Site is shown in Figure 2.3-2 below:



**Figure 2.3-2: Open Area Test Site**

## 2.4 Conducted Emissions Test Site Description

The AC mains conducted EMI site is located in the main EMC lab. It consists of an 8' x 8' solid aluminum horizontal ground reference plane (GRP) bonded every 3" to an 8' X 8' vertical ground plane.

The site is of sufficient size to test table top and floor standing equipment in accordance with section 6.1.4 of ANSI C63.4.

A diagram of the room is shown below in figure 4.1.3-1:

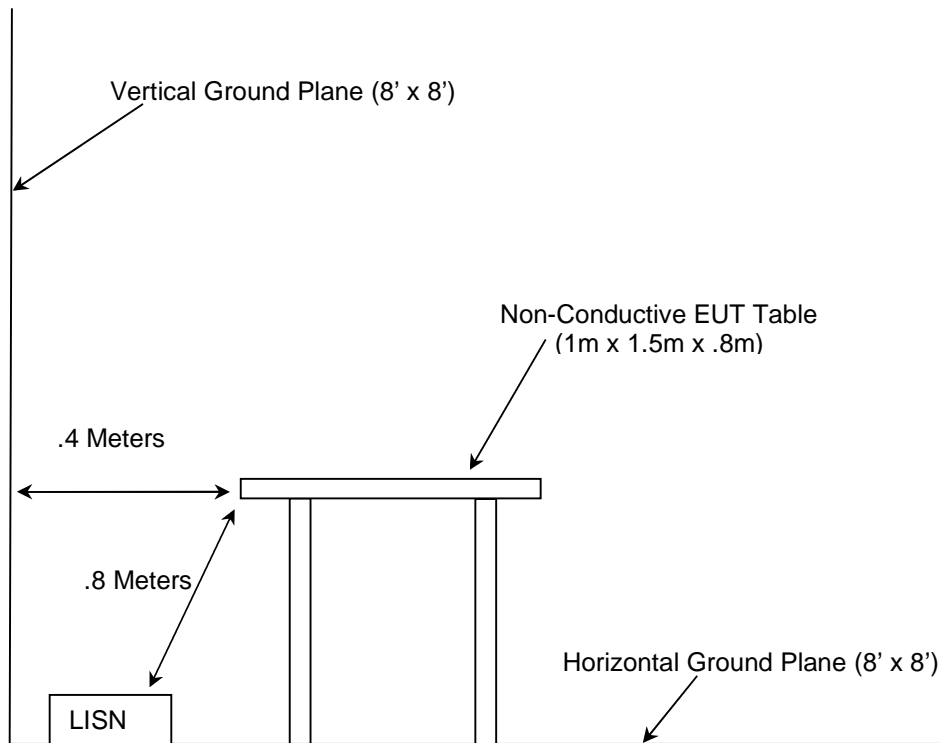


Figure 2.4-1: AC Mains Conducted EMI Site

## 3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ❖ ANSI C63.4-2003: Method of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the 9KHz to 40GHz
- ❖ ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2013
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2013
- ❖ FCC KDB 558074 D01 DTS Meas Guidance v03r01 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247, April 9, 2013
- ❖ Industry Canada Radio Standards Specification: RSS-210 - Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8, Dec 2010
- ❖ Industry Canada Radio Standards Specification: RSS-GEN - General Requirements and Information for the Certification of Radiocommunication Equipment, Issue 3, Dec 2010.

#### 4 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

**Table 4-1: Test Equipment**

AssetID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Calibration Due Date
1	Rohde & Schwarz	ESMl - Display	Spectrum Analyzers	833771/007	8/2/2012	8/2/2014
2	Rohde & Schwarz	ESMl-Receiver	Spectrum Analyzers	839587/003	8/2/2012	8/2/2014
30	Spectrum Technologies	DRH-0118	Antennas	970102	4/23/2013	4/23/2015
40	EMCO	3104	Antennas	3211	2/14/2013	2/14/2015
73	Agilent	8447D	Amplifiers	2727A05624	7/16/2013	7/16/2014
153	EMCO	3825/2	LISN	9411-2268	7/31/2012	7/31/2014
167	ACS	Chamber EMI Cable Set	Cable Set	167	12/17/2012	12/17/2013
168	Hewlett Packard	11947A	Attenuators	44829	2/1/2013	2/1/2014
267	Agilent	N1911A	Meters	MY45100129	1/23/2012	1/23/2014
268	Agilent	N1921A	Sensors	MY45240184	1/17/2012	1/17/2014
283	Rohde & Schwarz	FSP40	Spectrum Analyzers	1000033	7/30/2013	7/30/2015
292	Florida RF Cables	SMR-290AW-480.0-SMR	Cables	None	3/26/2013	3/26/2014
324	ACS	Belden	Cables	8214	6/17/2013	6/17/2014
331	Microwave Circuits	H1G513G1	Filters	31417	6/19/2013	6/19/2014
338	Hewlett Packard	8449B	Amplifiers	3008A01111	7/30/2013	7/30/2015
340	Aeroflex/Weinschel	AS-20	Attenuators	7136	7/30/2013	7/30/2014
343	Florida RF Cables	SMRE-200W-12.0-SMRE	Cables	N/A	3/26/2013	3/26/2014
412	Electro Metrics	LPA-25	Antennas	1241	7/27/2012	7/27/2014
422	Florida RF	SMS-200AW-72.0-SMR	Cables	805	11/20/2012	11/20/2013
616	Florida RF Cables	SMRE-200W-12.0-SMRE	Cables	N/A	9/26/2013	9/26/2014
RE90	Agilent	E7404A	Analyzers	US40240143	11/28/2012	11/28/2013



5 SUPPORT EQUIPMENT

Table 5-1: Support Equipment

Item	Equipment Type	Manufacturer	Model Number	Serial Number
1	AC Power Adaptor	CUI, Inc.	KSAFD1200125W1US	N/A

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM

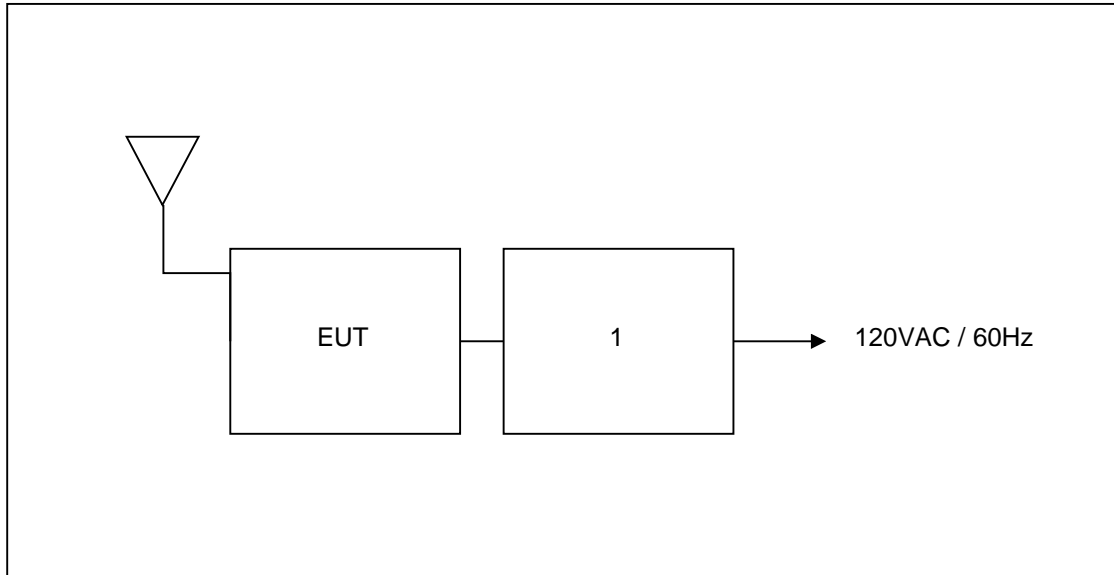


Figure 6-1: EUT Test Setup

**7 SUMMARY OF TESTS**

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

**7.1 Antenna Requirement – FCC 15.203**

The antenna used for the Elster MFMM is a flex dipole antenna with 0dBi gain. The antenna connects to the module through a SSMB connector and therefore meets the requirements of Section 15.203.

**7.2 Power Line Conducted Emissions – FCC 15.207; IC RSS-Gen 7.2.4**

**7.2.1 Measurement Procedure**

ANSI C63.4 sections 6 and 7 were the guiding documents for this evaluation. Conducted emissions were performed from 150kHz to 30MHz with the spectrum analyzer's resolution bandwidth set to 9kHz and the video bandwidth set to 30kHz. The calculation for the conducted emissions is as follows:

**Corrected Reading = Analyzer Reading + LISN Loss + Cable Loss**  
**Margin = Applicable Limit - Corrected Reading**

**7.2.2 Measurement Results**

Results of the test are shown below in and Tables 7.2.2-1 to 7.2.2-2.

**Table 7.2.2-1: Line 1 Conducted EMI Results**

Frequency (MHz)	Uncorrected Reading		Total Correction Factor (dB)	Corrected Level		Limit		Margin (dB)	
	Quasi-Peak	Average		Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
4.994	7.084	2.579	10.147	17.23	12.726	56	46	38.77	33.274
4.98755	7.072	2.493	10.146	17.218	12.64	56	46	38.782	33.36
4.46173	7.343	2.772	10.137	17.48	12.909	56	46	38.52	33.091
3.29222	7.473	2.978	10.118	17.59	13.096	56	46	38.41	32.904
0.5042	8.339	3.714	9.989	18.328	13.703	56	46	37.672	32.297
0.271575	12.782	4.819	10.025	22.807	14.845	62.526	52.526	39.719	37.682

Table 7.2.2-2: Line 2 Conducted EMI Results

Frequency (MHz)	Uncorrected Reading		Total Correction Factor (dB)	Corrected Level		Limit		Margin (dB)	
	Quasi-Peak	Average		Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average
28.1126	5.466	1.426	10.975	16.441	12.401	60	50	43.559	37.599
5.4202	6.826	2.671	10.157	16.982	12.827	60	50	43.018	37.173
2.7868	7.042	2.595	10.088	17.13	12.684	56	46	38.87	33.316
0.5083	7.749	3.393	9.99	17.738	13.383	56	46	38.262	32.617
0.288631	10.595	4.179	10.007	20.601	14.186	62.039	52.039	41.438	37.853
0.150417	27.676	9.455	10.181	37.857	19.636	65.988	55.988	28.131	36.352

7.3 6dB / 99% Bandwidth – FCC 15.247(a)(2); IC RSS-210 A8.2(a)

7.3.1 Measurement Procedure

The 6dB bandwidth was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r01. The Resolution Bandwidth (RBW) of the spectrum analyzer was set to 100 kHz. The Video Bandwidth (VBW) was set to ≥ 3 times the RBW. The trace was set to max hold with a peak detector active. The marker-delta function of the spectrum analyzer was utilized to determine the 6 dB bandwidth of the emission, Option 1.

The occupied bandwidth measurement function of the spectrum analyzer was used to measure the 99% bandwidth. The span of the analyzer was set to capture all products of the modulation process, including the emission sidebands. The resolution bandwidth was set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth was set to 3 times the resolution bandwidth. A sampling detector was used.

7.3.2 Measurement Results

Results are shown below in table 7.3.2-1 and figures 7.3.2-1 to 7.3.2-2:

Table 7.3.2-1: 6dB / 99% Bandwidth

Frequency [MHz]	6dB Bandwidth [MHz]	99% Bandwidth [MHz]
917.58	1.24	3.40

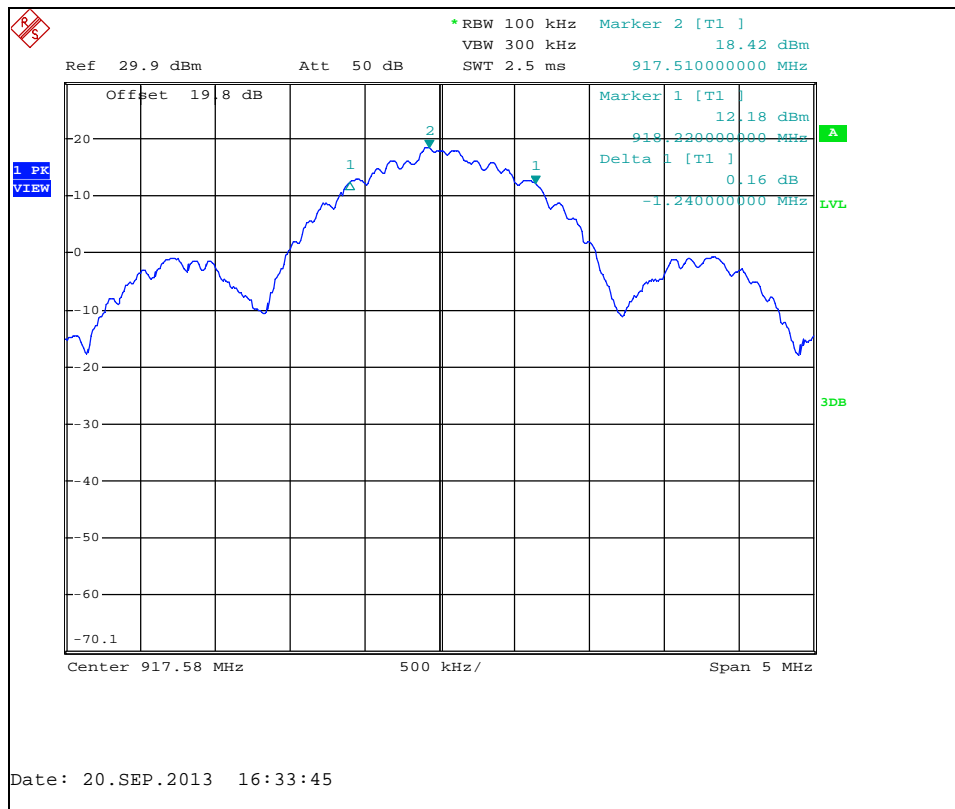


Figure 7.3.2-1: 6dB Bandwidth Plot

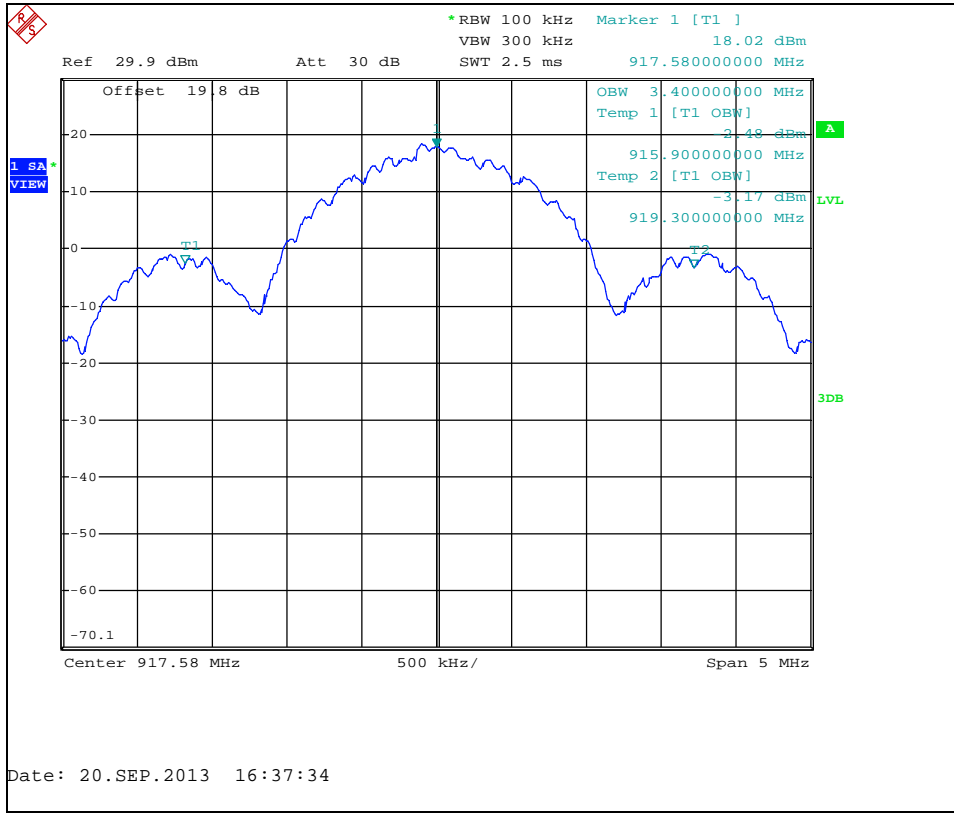


Figure 7.3.2-2: 99% Bandwidth Plot

**7.4 Fundamental Emission Output Power – FCC 15.247(b)(3), IC: RSS-210 A8.4(4)**

**7.4.1 Measurement Procedure**

The maximum peak conducted output power was measured in accordance with FCC KDB 558074 D01 DTS Meas Guidance v03r01 utilizing the PKPM1 Peak power meter method. The RF output of the equipment under test was directly connected to the input of the peak power meter applying suitable attenuation.

**7.4.2 Measurement Results**

Results are shown below in Table 7.4.2-1.

**Table 7.4.2-1: Maximum Peak Conducted Output Power**

Frequency (MHz)	Output Power (dBm)
917.58	23.61

7.5 Emission Levels – FCC 15.247(d), 15.205, 15.209; IC RSS-210 2.2/A8.5, RSS-Gen 7.2.2

7.5.1 Emissions into Non-restricted Frequency Bands

7.5.1.1 Measurement Procedure

The unwanted emissions into non-restricted bands were measured conducted in accordance with FCC KDB 558074 D01 DTS Meas Guidance v03r01. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer applying suitable attenuation. The Resolution Bandwidth (RBW) of the spectrum analyzer was set to 100 kHz. The Video Bandwidth (VBW) was set to  $\geq 300$  kHz. Span was set to 1.5 times the DTS bandwidth. The trace was set to max hold with a peak detector active. The resulting spectrum analyzer peak level was used to determine the reference level with respect to the 20 dBc limit. The spectrum span was then adjusted for the measurement of spurious emissions from 30MHz to 10GHz, 10 times the highest fundamental frequency.

Band-edge compliance was determined using the conducted marker-delta method in which the radio frequency power that is produced by the EUT is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power.

7.5.1.2 Measurement Results

RF Conducted Emissions are displayed in Figures 7.5.1.2-1 through 7.5.1.2-3.

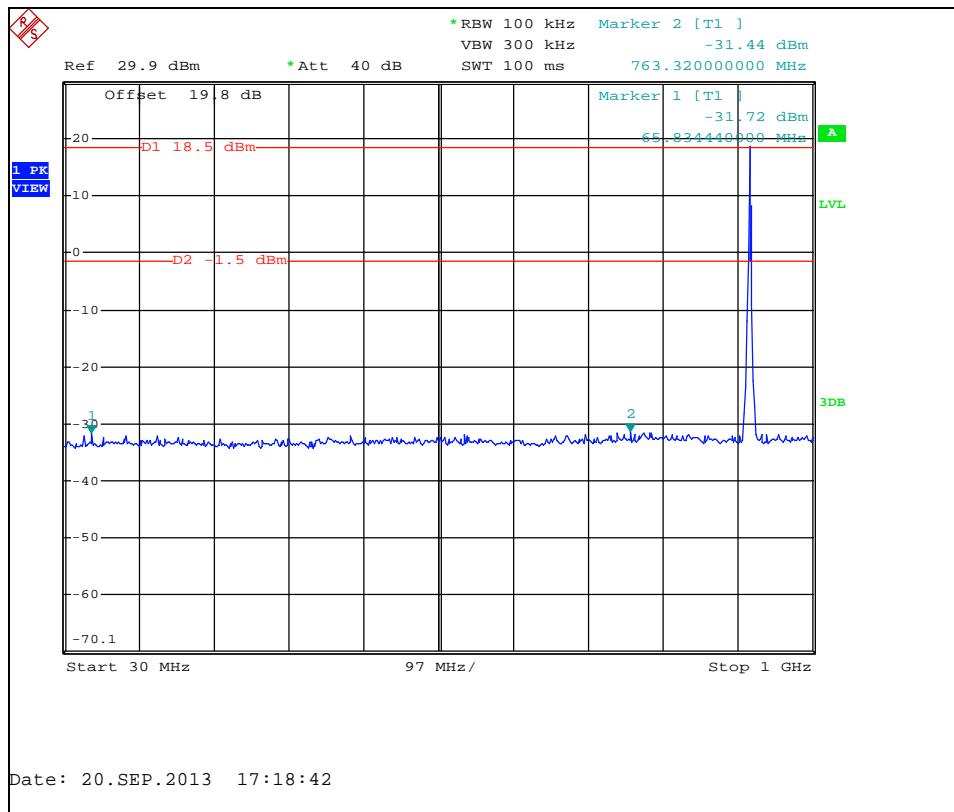


Figure 7.5.1.2-1: 30 MHz – 1 GHz

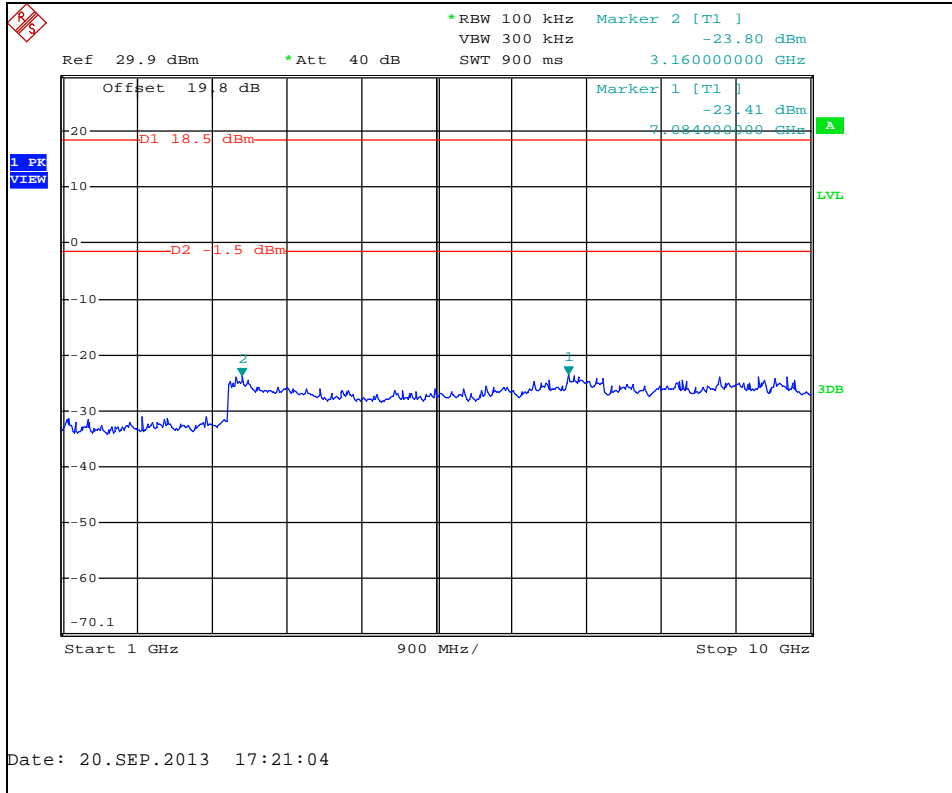


Figure 7.5.1.2-2: 1 GHz – 10 GHz

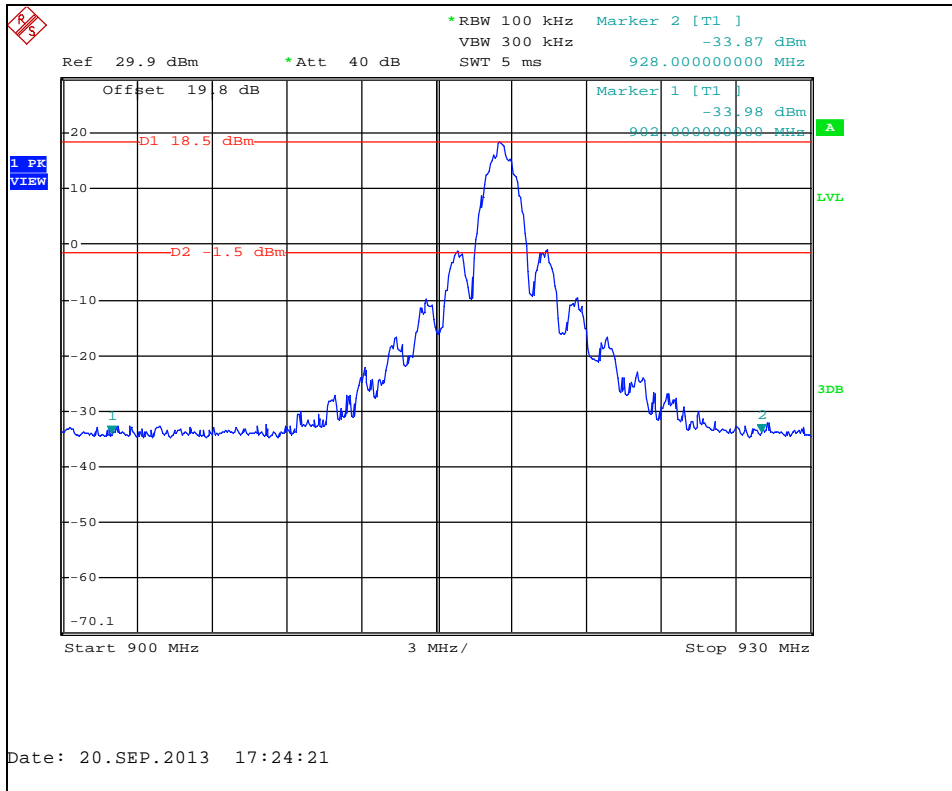


Figure 7.5.1.2-3: Band-edge



**7.5.2 Emissions into Restricted Frequency Bands**

**7.5.2.1 Measurement Procedure**

The unwanted emissions into restricted bands were measured radiated over the frequency range of 30MHz to 10GHz, 10 times the highest fundamental frequency.

The EUT was rotated through 360° and the receive antenna height was varied from 1m to 4m so that the maximum radiated emissions level would be detected. For frequencies below 1000MHz, quasi-peak measurements were made using a resolution bandwidth RBW of 120 kHz and a video bandwidth VBW of 300 kHz. For frequencies above 1000MHz, peak measurements were made with RBW and VBW of 1 MHz and 3 MHz respectively. The average emissions were determined by applying the duty cycle correction of the EUT to peak emissions.

Each emission found to be in a restricted band as defined by section 15.205 was compared to the radiated emission limits as defined in section 15.209.

**7.5.2.2 Duty Cycle Correction**

For average radiated measurements, using a 21.4% duty cycle, the measured level was reduced by a factor 13.39dB. The duty cycle correction factor is determined using the formula:  $20\log(21.4/100) = 13.39\text{dB}$ .

A detailed analysis of the duty cycle timing is provided in the Theory of Operation accompanying the application for certification.

**7.5.2.3 Measurement Results**

Radiated spurious emissions found in the band of 30MHz to 10GHz are reported in the table 7.5.2.3-1 below.

**Table 7.5.2.3-1: Radiated Spurious Emissions Tabulated Data**

Frequency (MHz)	Level (dBuV)		Antenna Polarity (H/V)	Correction Factors (dB)	Corrected Level (dBuV/m)		Limit (dBuV/m)		Margin (dB)	
	pk	Qpk/Avg			pk	Qpk/Avg	pk	Qpk/Avg	pk	Qpk/Avg
2752.74	62.14	62.14	H	-4.49	57.65	44.25	74.0	54.0	16.4	9.7
2752.74	65.70	65.70	V	-4.49	61.21	47.81	74.0	54.0	12.8	6.2
3670.32	50.36	50.36	V	-1.14	49.22	35.82	74.0	54.0	24.8	18.2
4587.9	63.64	63.64	H	1.08	64.72	51.33	74.0	54.0	9.3	2.7
4587.9	60.52	60.52	V	1.08	61.60	48.21	74.0	54.0	12.4	5.8
8258.22	49.22	49.22	H	8.20	57.42	44.03	74.0	54.0	16.6	10.0
9175.8	51.00	51.00	H	8.67	59.67	46.28	74.0	54.0	14.3	7.7
9175.8	48.28	48.28	V	8.67	56.95	43.56	74.0	54.0	17.0	10.4
1194	61.08	61.08	H	-12.22	48.86	35.47	74.0	54.0	25.1	18.5
1194	70.09	70.09	V	-12.22	57.87	44.48	74.0	54.0	16.1	9.5
1208.7	61.33	61.33	H	-12.12	49.21	35.81	74.0	54.0	24.8	18.2
1208.7	67.58	67.58	V	-12.12	55.46	42.06	74.0	54.0	18.5	11.9
1106.7	59.63	59.63	H	-12.78	46.85	33.46	74.0	54.0	27.2	20.5
1106.7	68.06	68.06	V	-12.78	55.28	41.89	74.0	54.0	18.7	12.1

**7.5.2.4 Sample Calculation:**

$$R_C = R_U + CF_T$$

Where:

- CF<sub>T</sub> = Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)
- R<sub>U</sub> = Uncorrected Reading
- R<sub>C</sub> = Corrected Level
- AF = Antenna Factor
- CA = Cable Attenuation
- AG = Amplifier Gain
- DC = Duty Cycle Correction Factor

**Example Calculation: Peak**

Corrected Level: 62.14 - 4.49 = 57.65dBuV/m  
Margin: 74dBuV/m – 57.65dBuV/m = 16.4dB

**Example Calculation: Average**

Corrected Level: 62.14 - 4.49 - 13.39 = 44.25dBuV  
Margin: 54dBuV – 44.25dBuV = 9.7dB

**7.6 Maximum Power Spectral Density in the Fundamental Emission – FCC 15.247(e); IC RSS-210 A8.2(b)**

**7.6.1 Measurement Procedure**

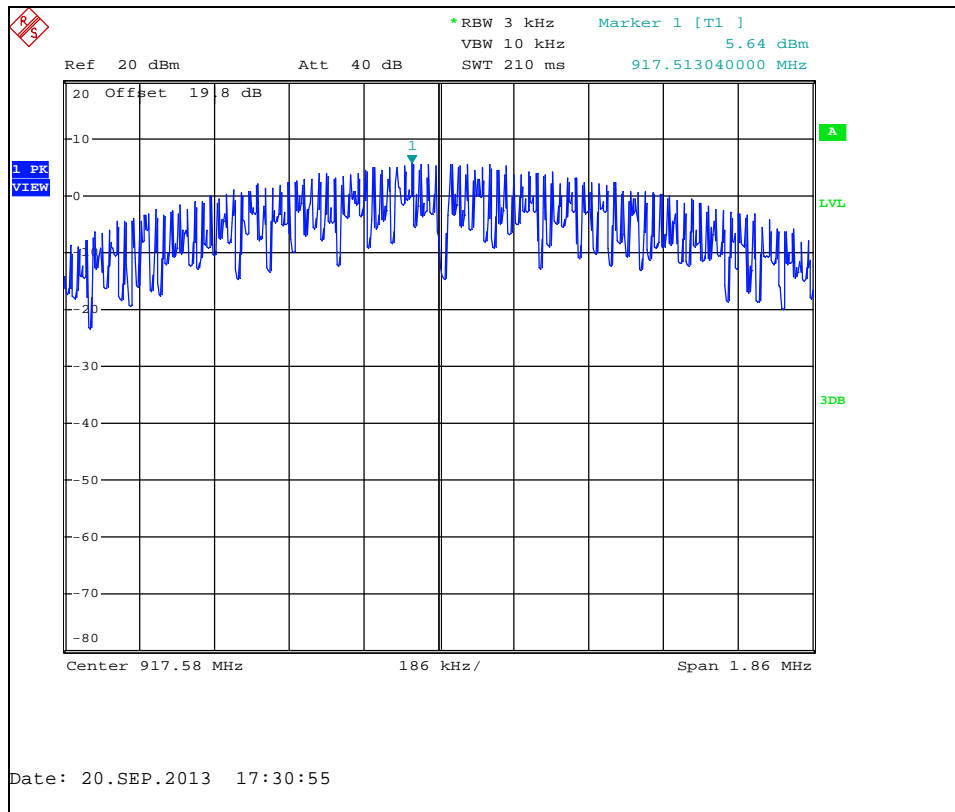
The power spectral density was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r01 utilizing the PKPSD (peak PSD) method. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer applying suitable attenuation. The Resolution Bandwidth (RBW) of the spectrum analyzer was set to 3 kHz. The Video Bandwidth (VBW) was set to 10 kHz. Span was set to 1.5 times the DTS bandwidth. The trace was set to max hold with a peak detector active.

**7.6.2 Measurement Results**

Results are shown below in table 7.6.2-1 and figure 7.6.2-1.

**Table 7.6.2-1: Peak Power Spectral Density**

Frequency (MHz)	PSD Level (dBm)
917.58	5.64



**Figure 7.6.2-1: Power Spectral Density**

**8 CONCLUSION**

In the opinion of ACS, Inc. the Elster Multi-Function Meter Module, manufactured by Landis+Gyr Technology, Inc. meets the requirements of FCC Part 15 subpart C and Industry Canada's Radio Standards Specification RSS-210.

**END REPORT**