

Certification Test Report

FCC ID: 2AIEF-MCM1900
IC: 21528-MCM1900

FCC Rule Part: 15.247
ISED Canada Radio Standards Specification: RSS-247

ACS Report Number: 16-2038.W06.1A

Applicant: MC Miller Co. Inc.

Model(s): MCM1900

Test Begin Date: June 30, 2016
Test End Date: July 6, 2016

Report Issue Date: September 23, 2016



FOR THE SCOPE OF ACCREDITATION UNDER CERTIFICATE NUMBER AT-1533

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This report contains 29 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 Innovation, Science and Economic Development Canada's Radio Standards Specification RSS-247 for the tests documented herein.

1.2 Applicant Information

MC Miller Co. Inc.
11640 US Highway 1
Sebastian FL 32958

1.3 Product Description

The M. C. Miller Lync Meter model MCM1900 is a battery powered voltmeter designed to be resident in a cathodic protection test station or other location. The Lync has three DC channels ($\pm 5.7\text{VDC}$) and one AC channel (0-25VAC). The device is used as a wireless data acquisition device, using Bluetooth Low Energy (BLE) protocol, which allows voltage readings to be collected without making physical contact between the data logger and the test point.

Technical Details

Mode of Operation:	Bluetooth Low Energy (BLE)
Frequency Range:	2402 MHz - 2480 MHz
Number of Channels:	40
Channel Separation:	2 MHz
Modulations:	GFSK
Antenna Type/Gain:	Meandered Printed Inverted-F Antenna, 3.3 dBi.
Input Power:	3.6 VDC (Lithium cell battery)

Model Number: MCM1900

Test Sample Serial Number(s): 8 (Radiated Emissions), 9 (RF Conducted Measurements)

Test Sample Condition: The equipment was provided in good condition without any physical damage.

1.4 Test Methodology and Considerations

The EUT was evaluated for radiated and RF conducted emissions for the BLE transceiver using a test software power setting of -2 dBm on the Texas Instrument SmartRF Studio 7 programming tool. The equipment is battery powered only without any provision for connection to an alternative power source. The EUT is exempted from the power line conducted emissions requirements.

The radiated emissions evaluation was performed on the EUT connected to AC and DC sources as analog inputs. Preliminary radiated emissions measurements were performed on the EUT set in three orthogonal orientations. The final measurements were performed on the EUT orientation leading to the highest emissions as compared to the limits. The worst case emissions for both radiated band-edge and spurious emissions were obtained for the EUT in the X position, corresponding to the EUT lying on one side. A pictorial description of the test setup is provided in the test setup photo exhibit.

The RF conducted emissions measurements were performed on a sample modified with an SMA connector at the antenna port for direct coupling to the spectrum analyzer.

The EUT was also evaluated for compliance to the unintentional emissions requirements. The results are documented separately in a verification test report.

2 TEST FACILITIES

2.1 Location

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

Advanced Compliance Solutions, Inc.
3998 FAU Blvd, Suite 310
Boca Raton, Florida 33431
Phone: (561) 961-5585
Fax: (561) 961-5587
www.acstestlab.com

FCC Test Firm Registration #: 475089

Innovation, Science and Economic Development Canada Lab Code: 4175C

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by ANSI-ASQ National Accreditation Board under their ANAB program and has been issued certificate number AT-1533 in recognition of this accreditation. Unless otherwise specified, all test methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

2.3 Radiated & Conducted Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The EMC radiated test facility consists of an RF-shielded enclosure. The interior dimensions of the indoor semi-anechoic chamber are approximately 48 feet (14.6 m) long by 36 feet (10.8 m) wide by 24 feet (7.3 m) high and consist of rigid, 1/8 inch (0.32 cm) steel-clad, wood core modular panels with steel framing. In the shielded enclosure, the faces of the panels are galvanized and the chamber is self-supporting. 8-foot RF absorbing cones are installed on 4 walls and the ceiling. The steel-clad ground plane is covered with vinyl flooring.

The turntable is driven by pneumatic motor, which is capable of supporting a 2000 lb. load. The turntable is flush with the chamber floor which it is connected to, around its circumference, with a continuous metallic loaded spring. An EMCO Model 1060 Multi-device controller controls the turntable position.

A pneumatic motor is used to control antenna polarizations and height relative to the ground. The height information is displayed on the control unit EMCO Model 1050.

The control room is an RF shielded enclosure attached to the semi-anechoic chamber with two bulkhead panels for connecting RF, and control cables. The dimension of the room is 7.3 m x 4.9 m x 3 m high and the entrance doors of both control and conducted rooms are 3 feet (0.91 m) by 7 feet (2.13 m).

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3.1-1 below:

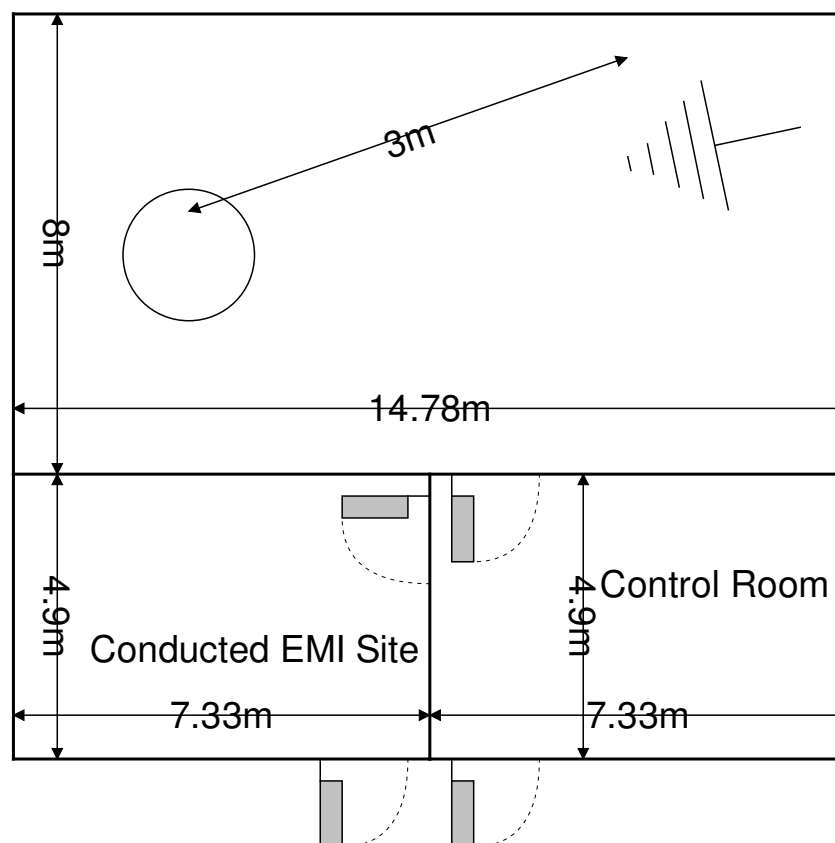


Figure 2.3.1-1: Semi-Anechoic Chamber Test Site

2.3.2 Conducted Emissions Test Site Description

The dimensions of the shielded conducted room are $7.3 \times 4.9 \times 3 \text{ m}^3$. The power line conducted emission site includes two LISNs: a Solar Model 8028-50 $50 \Omega/50 \mu\text{H}$ and an EMCO Model 3825/2R, which are installed as shown in the figure below. For evaluations requiring 230 V, 50 Hz AC input, a Polarad LISN (S/N 879341/048) is used in conjunction with a California Instruments signal generator Model 2001RP-OP1.

A diagram of the room is shown below in figure 2.3.2-1:

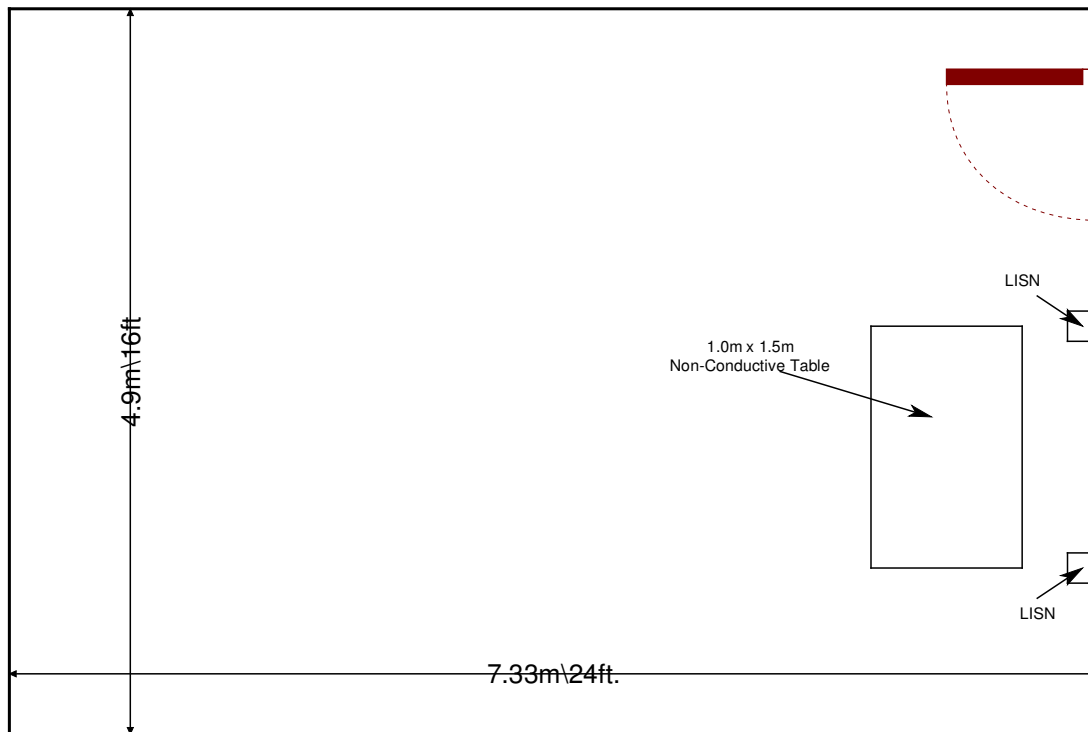


Figure 2.3.2-1: AC Mains Conducted EMI Site

3 APPLICABLE STANDARD REFERENCES

The following standards were used:

- ❖ ANSI C63.4-2014: Method of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the 9 kHz to 40 GHz.
- ❖ ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures, 2016.
- ❖ US Code of Federal Regulations (CFR): Title 47, Part 15, Subpart C: Radio Frequency Devices, Intentional Radiators, 2016
- ❖ FCC KDB 558074 D01 DTS Meas Guidance v03r05 - Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247, April 8, 2016.
- ❖ Innovation, Science and Economic Development Canada Radio Standards Specification: RSS-247 — Digital Transmission Systems (DTSS), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices, Issue 1, May 2015.
- ❖ Innovation, Science and Economic Development Canada Radio Standards Specification: RSS-GEN – General Requirements for Compliance of Radio Apparatus, Issue 4, November 2014.

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 List

AssetID	Manufacturer	Model #	Equipment Type	Serial #	Last Calibration Date	Calibration Due Date
78	EMCO	6502	Antennas	9104-2608	5/11/2016	5/11/2018
340	Aeroflex/Weinschel	AS-20	Attenuators	7136	7/13/2015	7/13/2016
523	Agilent	E7405	Spectrum Analyzers	MY45103293	12/26/2014	12/26/2016
653	Suhner	SF-102A	Cables	0944/2A	9/15/2015	9/15/2016
2002	EMCO	3108	Antennas	2147	11/19/2015	11/19/2017
2004	EMCO	3146	Antennas	1385	11/19/2015	11/19/2017
2006	EMCO	3115	Antennas	2573	4/14/2015	4/14/2017
2008	COM-Power	AH-826	Antennas	81009	NCR	NCR
2011	Hewlett-Packard	HP 8447D	Amplifiers	2443A03952	11/18/2015	11/18/2016
2070	Mini Circuits	VHF-8400+	Filter	2070	11/17/2015	11/17/2016
2072	Mini Circuits	VHF-3100+	Filter	30737	11/17/2015	11/17/2016
2082	Teledyne Storm Products	90-010-048	Cables	2082	4/21/2016	4/21/2017
2086	Merrimac	FAN-6-10K	Attenuators	23148-83-1	11/16/2015	11/16/2016
2089	Agilent Technologies, Inc.	83017A	Amplifiers	3123A00214	12/9/2015	12/9/2016
2095	ETS Lindgren	TILE4! - Version 4.2.A	Software	85242	NCR	NCR
2112	Teledyne Storm Products	921-0101-036	Cables	12-06-698	11/13/2015	11/13/2016
2121	ACS Boca	Radiated Cable Set	Cable Set	2121	8/22/2015	8/22/2016
RE619	Rhode & Schwarz	ESU26	Spectrum Analyzers	1302.6005K26 Ser. 100190	11/5/2014	11/5/2016

Note: NCR=No Calibration Required

5 SUPPORT EQUIPMENT

Table 5-1: EUT and Support Equipment Description

Item #	Type Device	Manufacturer	Model/Part #	Serial #
1	EUT	MC Miller CO, Inc.	MCM1900	0008
2	DC Power Supply	MPJA	HY5003	003700278

Table 5-2: Cable Description

Cable #	Cable Type	Length	Shield	Termination
A	Power Lead	0.37 m	No	EUT Battery to EUT Power Input Port
B	DC Input Lead	3.1 m	No	EUT to DC Power Supply
C	Power Cord	1.8 m	No	Power Supply to AC Mains
D	AC Input Lead	3.2 m	No	EUT to AC Source

6 EQUIPMENT UNDER TEST SETUP BLOCK DIAGRAM

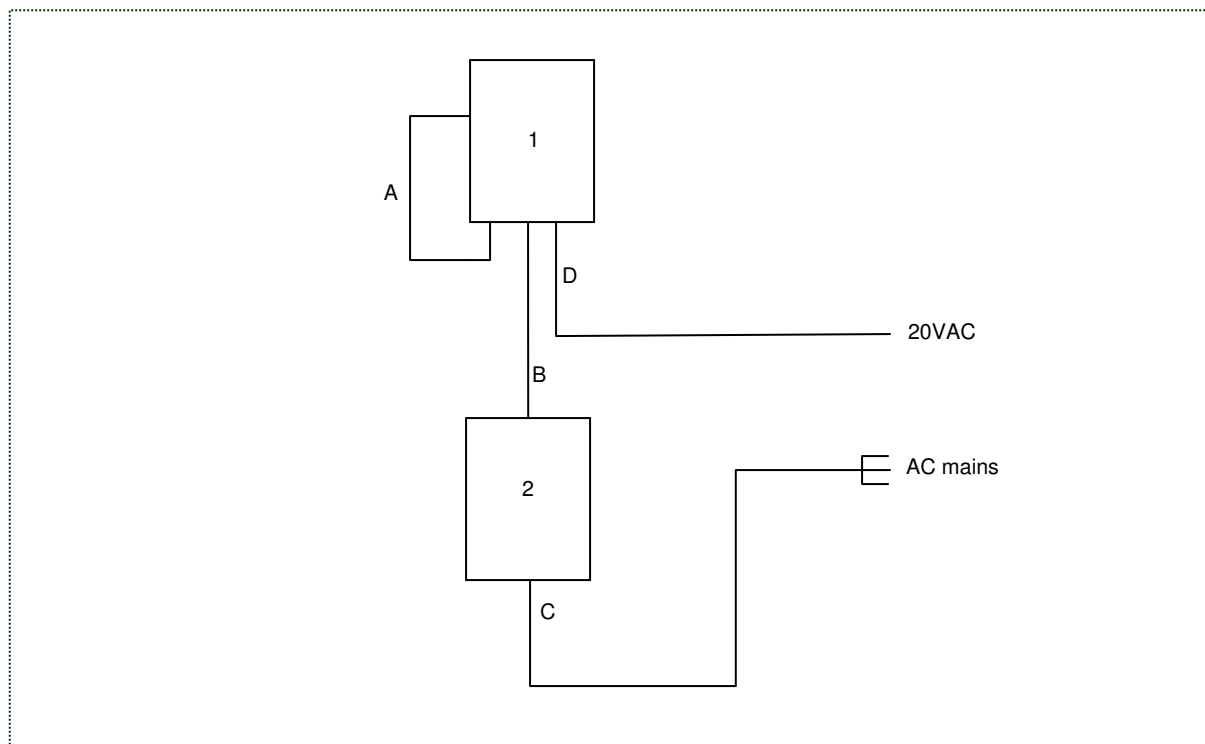


Figure 6-1: EUT Test Setup

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: Section 15.203

The EUT uses a 3.3 dBi meandered printed inverted-F antenna that is integral to the PCB. The antenna is not removable without damaging the equipment. The EUT meets the requirements of FCC Section 15.203.

7.2 6 dB Bandwidth - FCC: Section 15.247(a)(2); ISSED Canada: RSS-247 5.2(1); 99% Bandwidth – ISSED Canada: RSS-GEN 6.6

7.2.1 Measurement Procedure

The 6dB bandwidth was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 8.2 Option 2. The RBW of the spectrum analyzer was set to 100 kHz and VBW 300 kHz. Span was set large enough to capture the emissions and >> RBW.

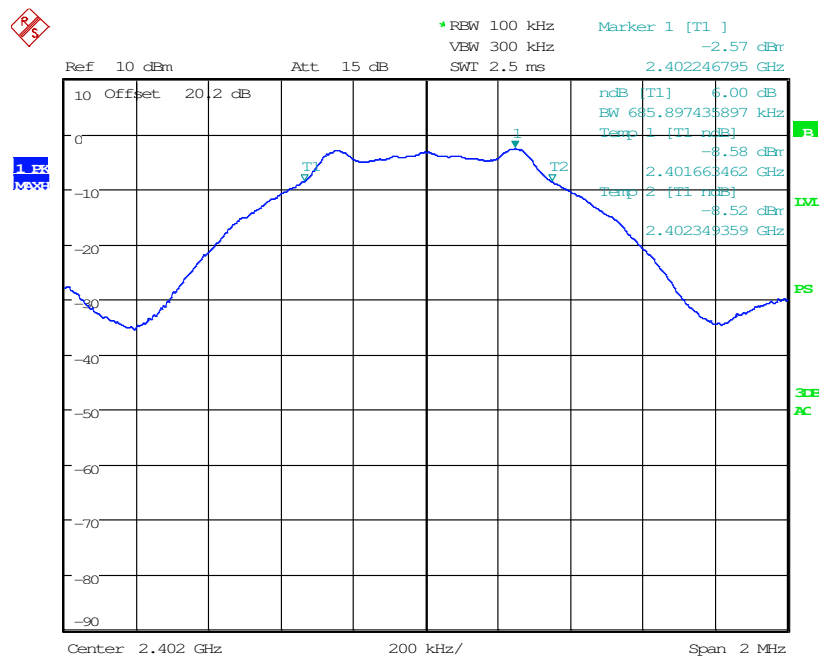
The 99% occupied bandwidth was measured with the spectrum analyzer span set to fully display the emission. The RBW was set to 1% to 5% of the approximated bandwidth. The occupied 99% bandwidth was measured by using 99% bandwidth equipment function of the spectrum analyzer.

7.2.2 Measurement Results

Results are shown below.

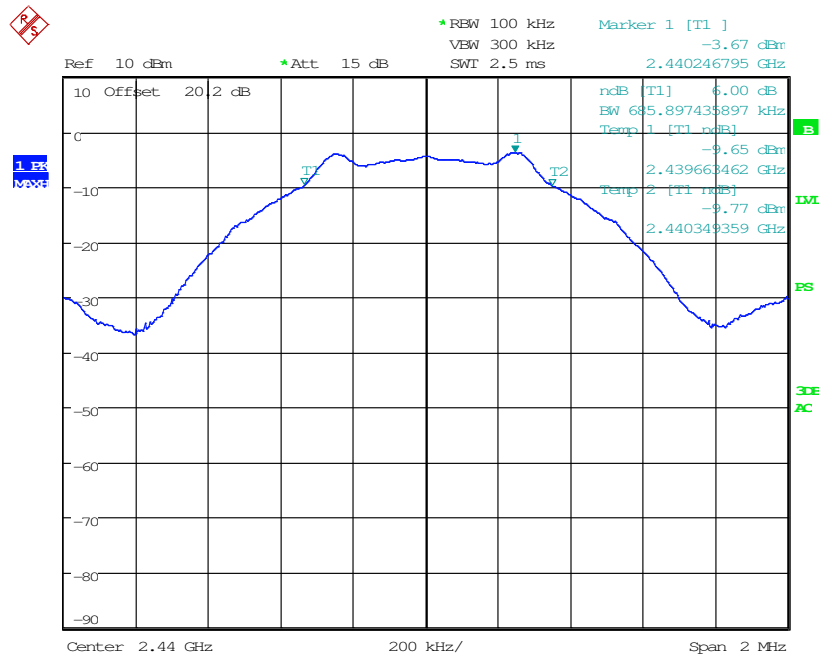
Table 7.2.2-1: 6dB / 99% Bandwidth

Frequency [MHz]	6dB Bandwidth [kHz]	99% Bandwidth [kHz]
2402	685.8974	2852.5641
2440	685.8974	2307.6923
2480	682.6923	1089.7436



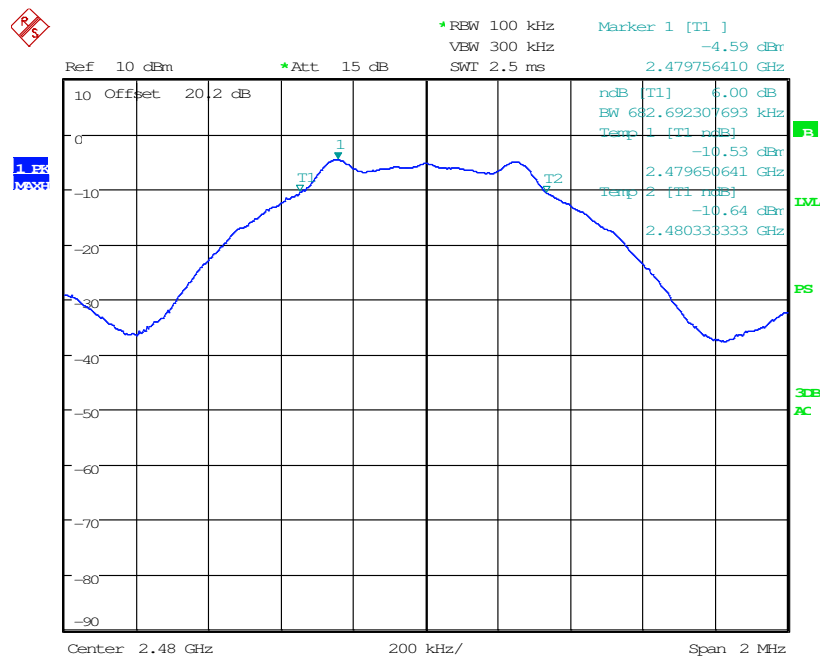
Date: 6.JUL.2016 17:08:40

Figure 7.2.2-1: 6dB BW - Low Channel



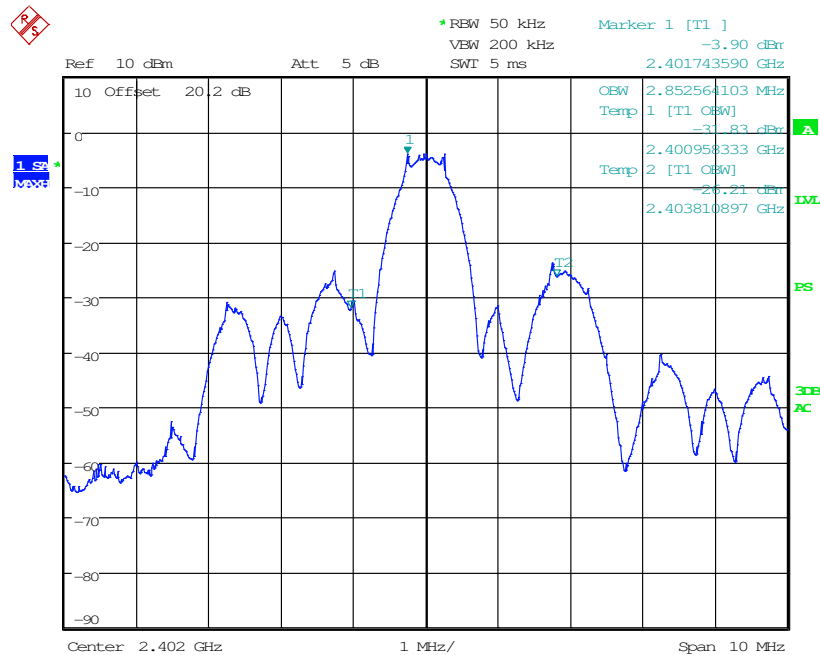
Date: 6.JUL.2016 17:20:39

Figure 7.2.2-2: 6dB BW - Middle Channel



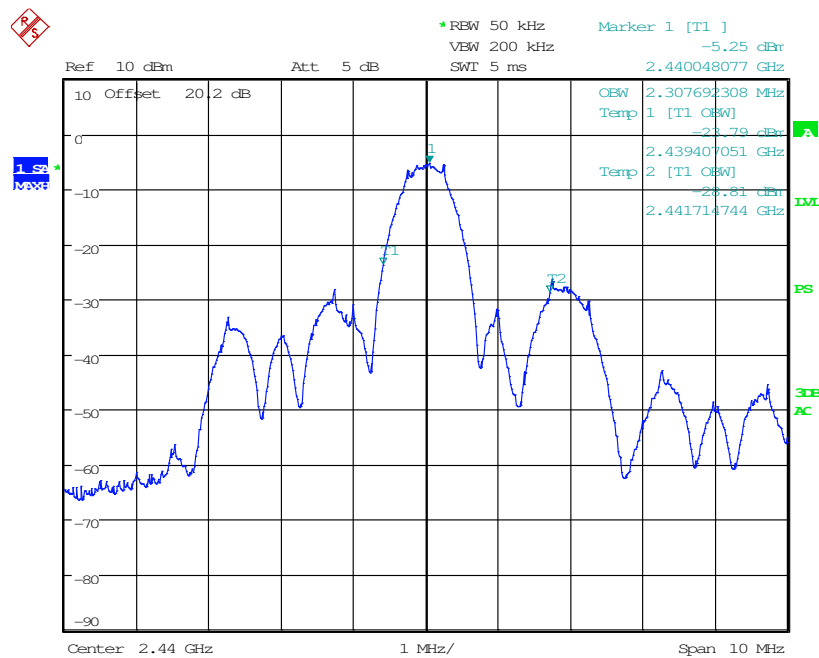
Date: 6.JUL.2016 17:25:27

Figure 7.2.2-3: 6dB BW - High Channel



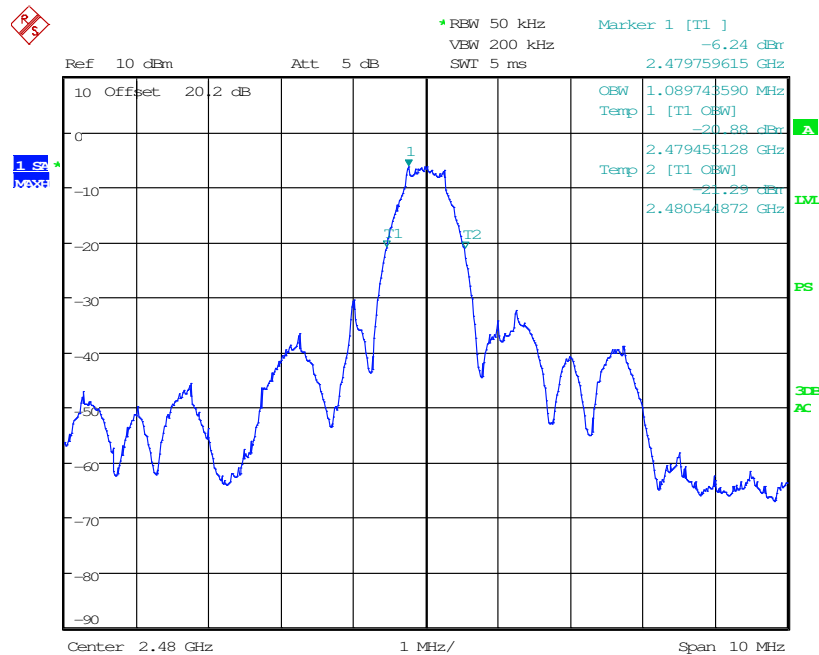
Date: 6.JUL.2016 17:15:51

Figure 7.2.2-4: 99% OBW - Low Channel



Date: 6.JUL.2016 17:18:23

Figure 7.2.2-5: 99% OBW - Middle Channel



Date: 6.JUL.2016 17:28:22

Figure 7.2.2-6: 99% OBW - High Channel

7.3 Peak Output Power – FCC: Section 15.247(b)(3); ISCED Canada: RSS-247 5.4(4)

7.3.1 Measurement Procedure (Conducted Method)

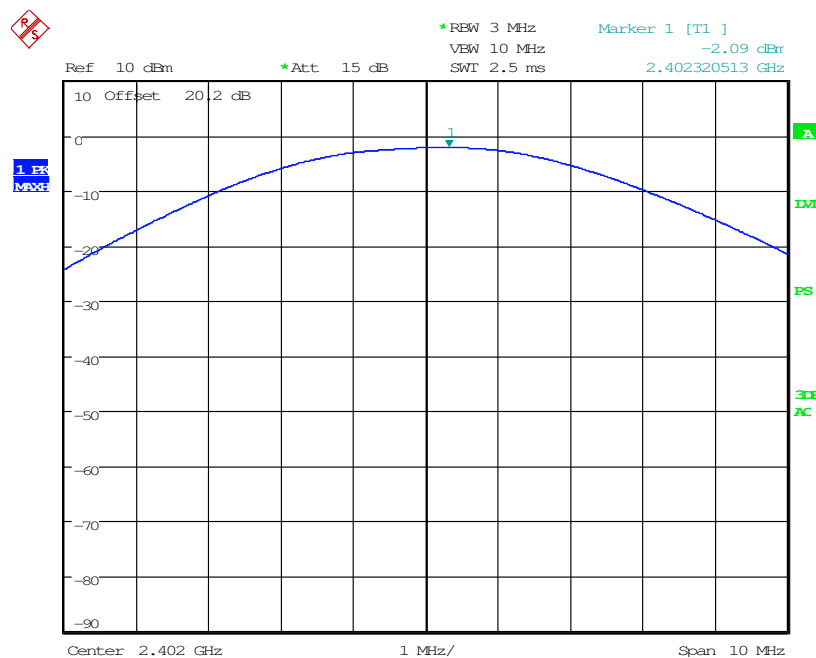
The fundamental emission output power was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 9.1.1 RBW $\geq$ DTS bandwidth. The RF output of the equipment under test was directly connected to the input of the spectrum analyzer through suitable attenuation.

7.3.2 Measurement Results

Results are shown below.

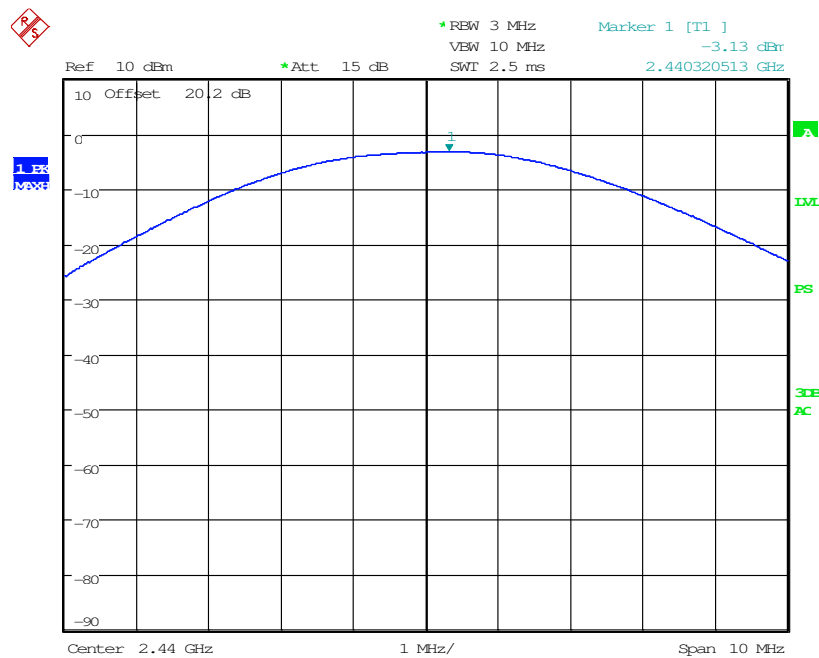
Table 7.3.2-1: RF Output Power

Frequency [MHz]	Level [dBm]
2402	-2.09
2440	-3.13
2480	-4.18



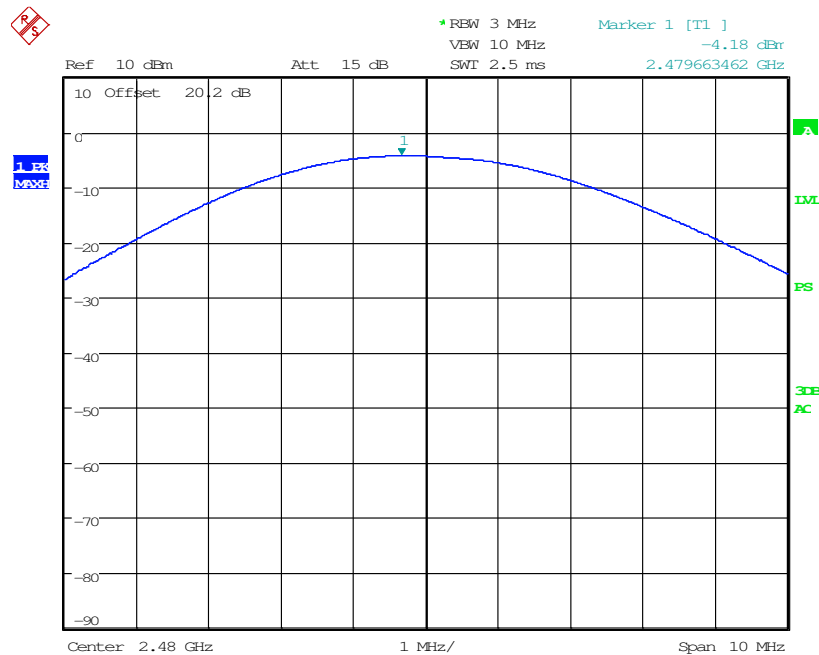
Date: 6.JUL.2016 17:43:37

Figure 7.3.2-1: RF Output Power - Low Channel



Date: 6.JUL.2016 17:39:40

Figure 7.3.2-2: RF Output Power - Middle Channel



Date: 6.JUL.2016 17:30:54

Figure 7.3.2-3: RF Output Power - High Channel

7.4 Band-Edge Compliance and Spurious Emissions

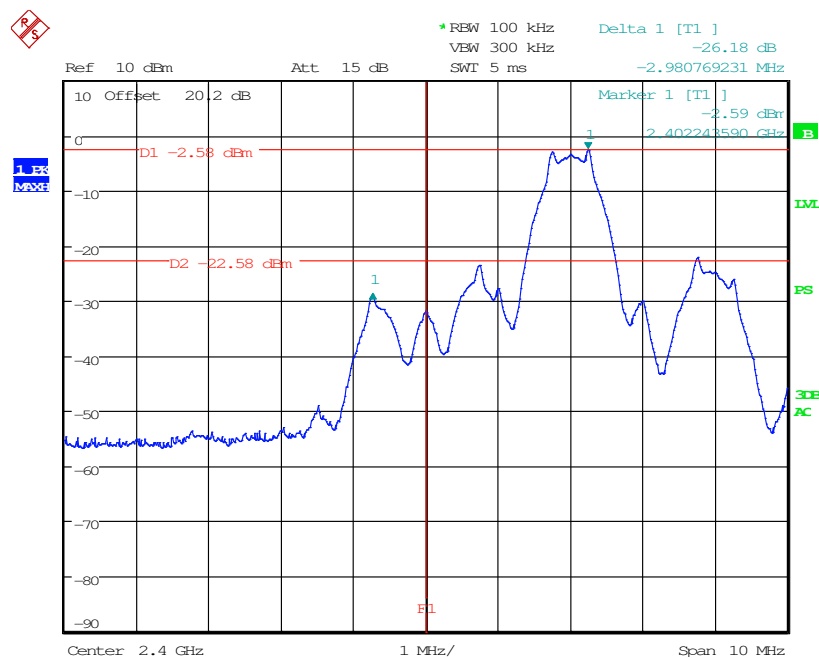
7.4.1 Band-Edge Compliance of RF Conducted Emissions – FCC: Section 15.247(d); ISSED Canada: RSS-247 5.5

7.4.1.1 Measurement Procedure

The RF output port of the EUT was directly connected to the input of the spectrum analyzer via suitable attenuation. The EUT was investigated at the lowest and highest channel available to determine band-edge compliance. For each measurement the spectrum analyzer's RBW was set to 100 kHz, and the VBW was set to 300 kHz.

7.4.1.2 Measurement Results

Results are shown below.



Date: 6.JUL.2016 17:54:13

Figure 7.4.1.2-1: Lower Band-edge

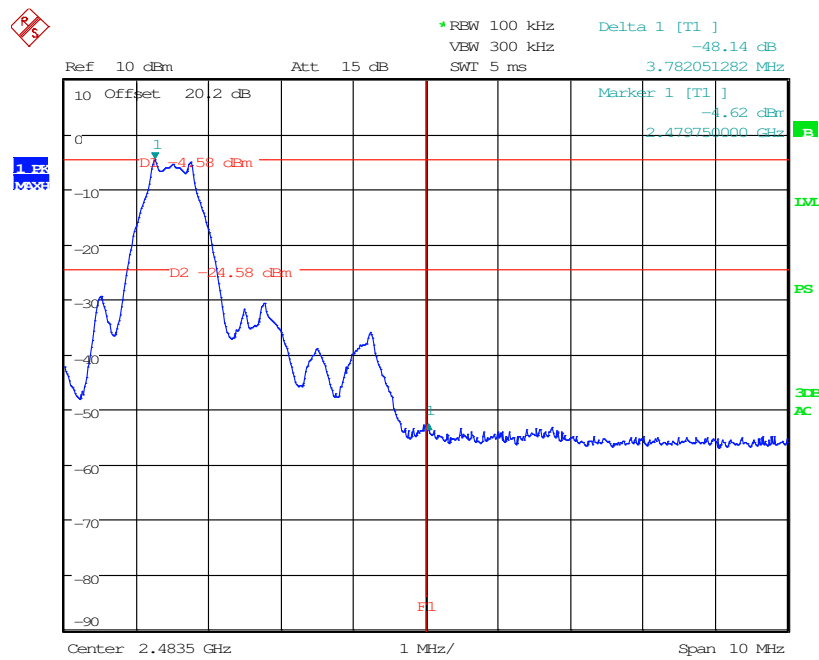


Figure 7.4.1.2-2: Upper Band-edge

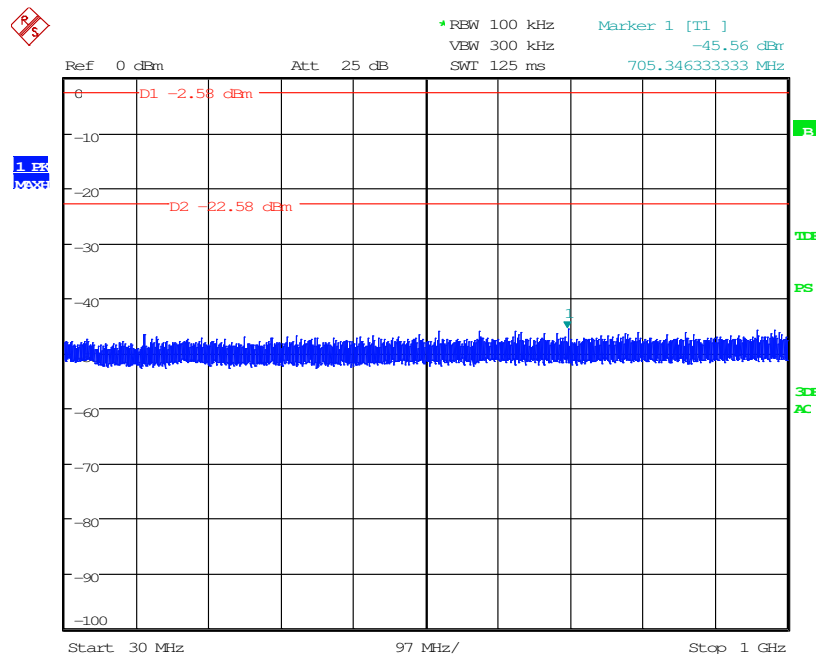
7.4.2 RF Conducted Spurious Emissions – FCC: Section 15.247(d); ISCED Canada: RSS-247 5.5

7.4.2.1 Measurement Procedure

The RF Conducted Spurious Emissions were measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 11.3 Emission level measurement. The RF output port of the equipment under test was directly connected to the input of the spectrum analyzer. The EUT was investigated for conducted spurious emissions from 30MHz to 26 GHz, 10 times the highest fundamental frequency. Measurements were made at the low, center and high channels of the EUT. For each measurement, the spectrum analyzer's RBW was set to 100 kHz and the VBW was set to 300 kHz. The peak Max Hold function of the analyzer was utilized. The reference level was determined by measuring the Peak PSD level in any 100 kHz bandwidth within the DTS channel bandwidth.

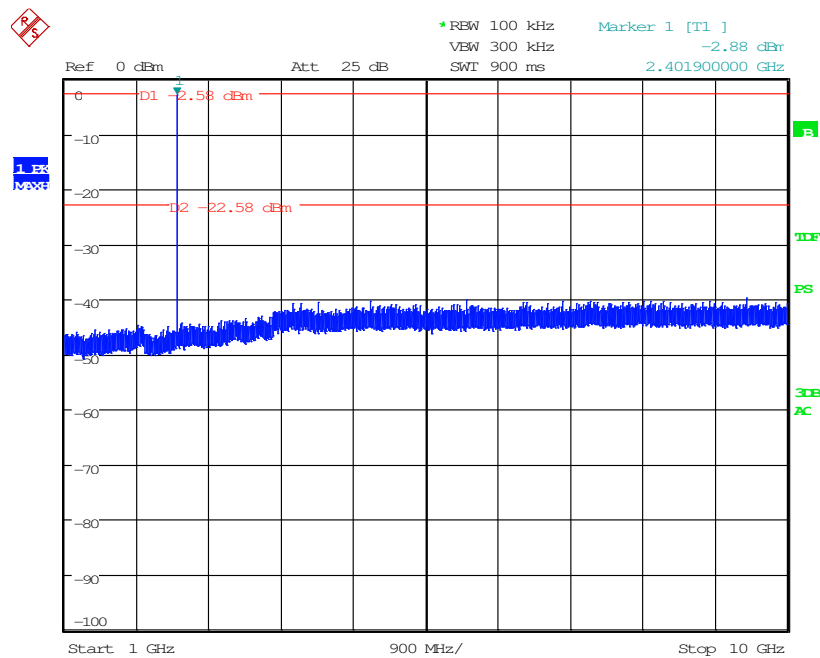
7.4.2.2 Measurement Results

Results are shown below.



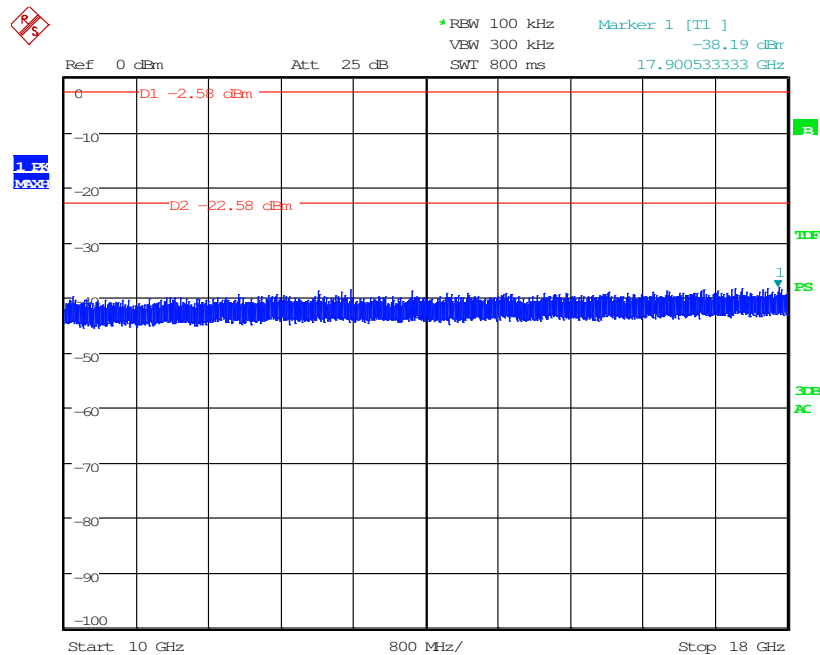
Date: 6.JUL.2016 18:30:07

Figure 7.4.2.2-1: 30 MHz – 1 GHz – Low Channel



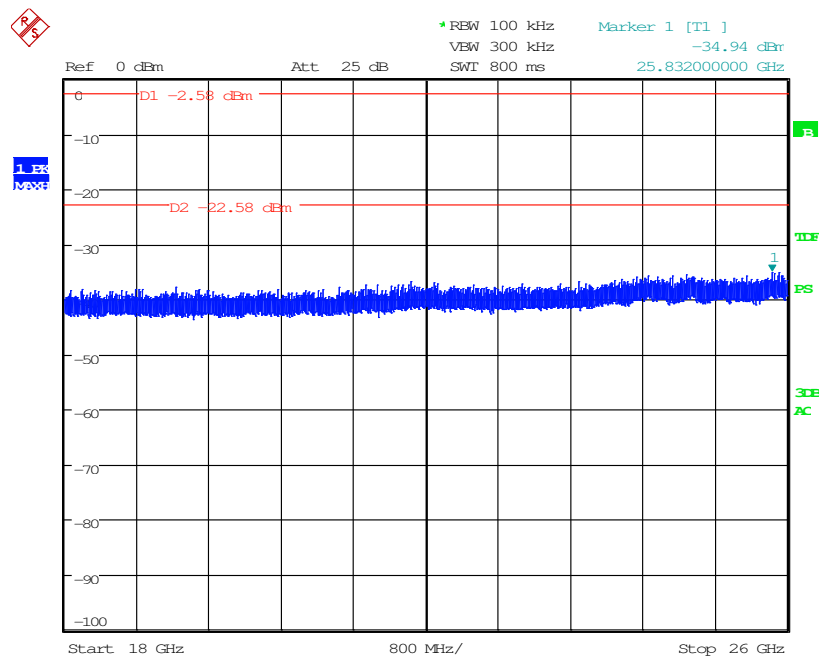
Date: 6.JUL.2016 18:27:42

Figure 7.4.2.2-2: 1 GHz –10 GHz – Low Channel



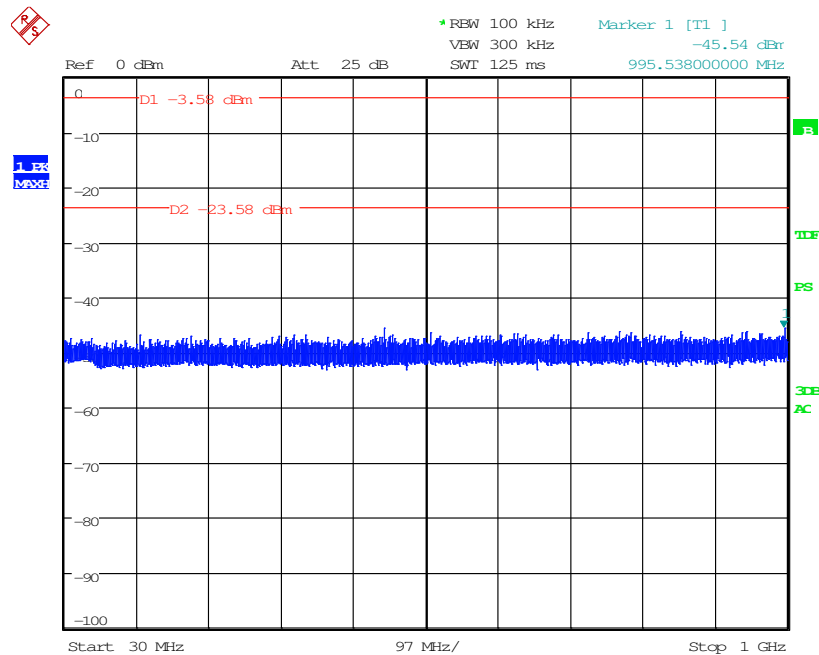
Date: 6.JUL.2016 18:25:28

Figure 7.4.2.2-3: 10 GHz –18 GHz – Low Channel



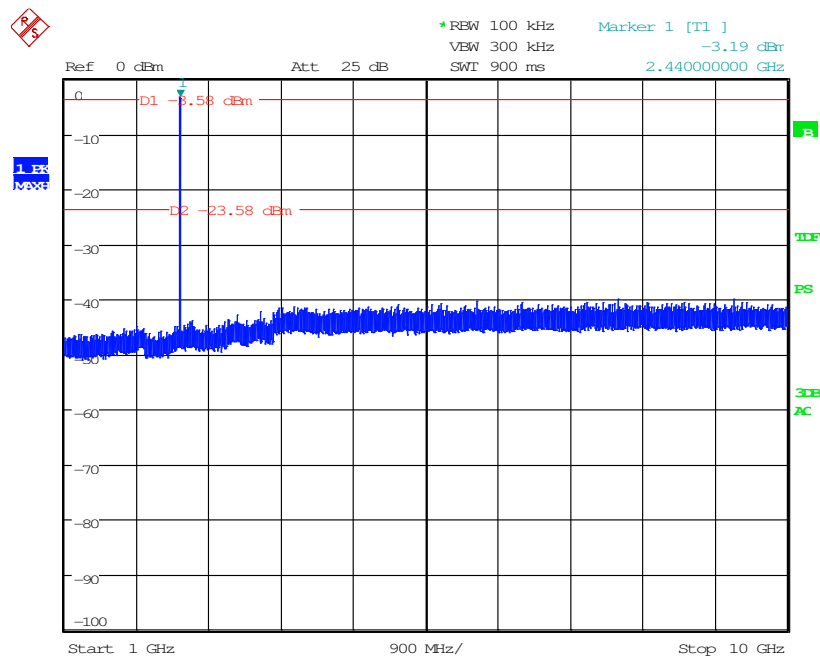
Date: 6.JUL.2016 18:23:44

Figure 7.4.2.2-4: 18 GHz – 26 GHz – Low Channel



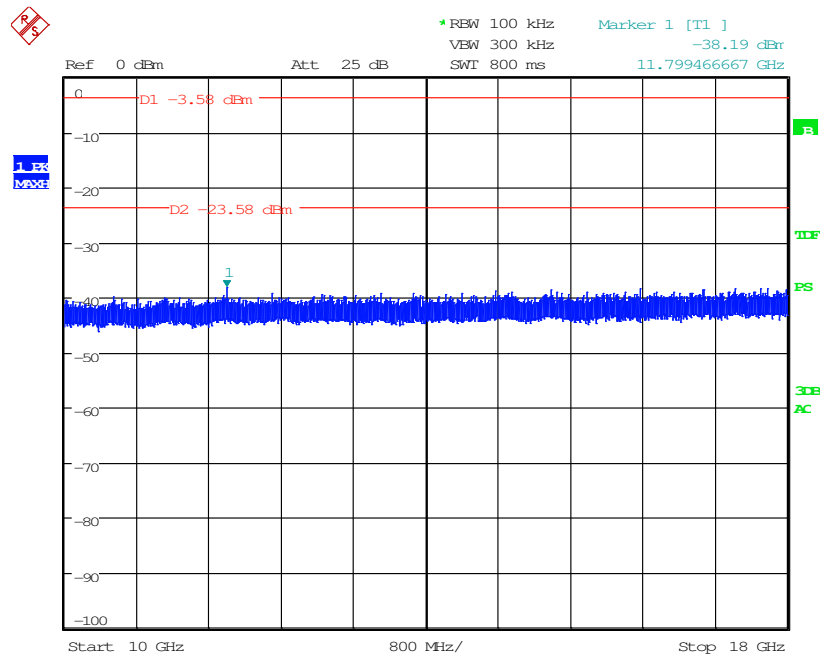
Date: 6.JUL.2016 18:16:36

Figure 7.4.2.2-5: 30 MHz – 1 GHz – Middle Channel



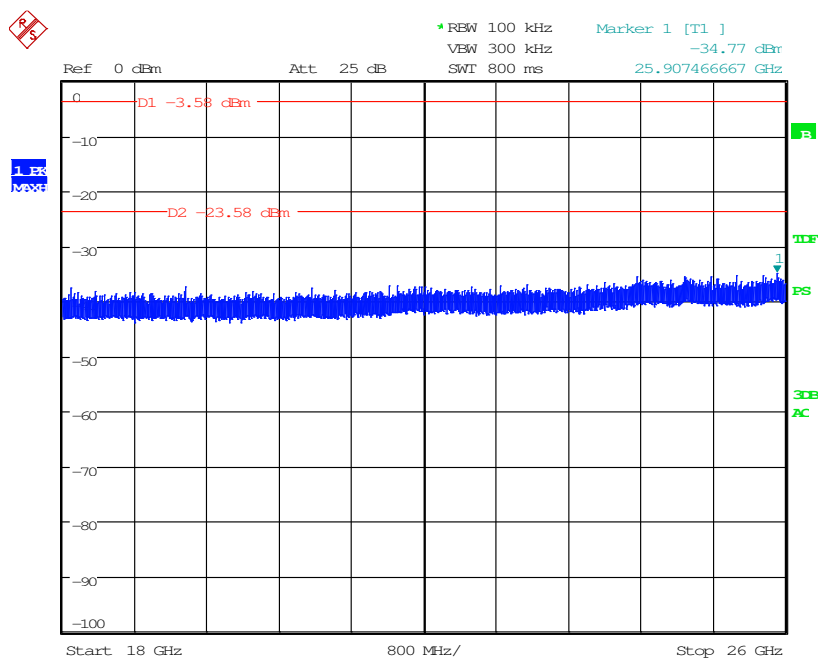
Date: 6.JUL.2016 18:17:58

Figure 7.4.2.2-6: 1 GHz – 10 GHz – Middle Channel



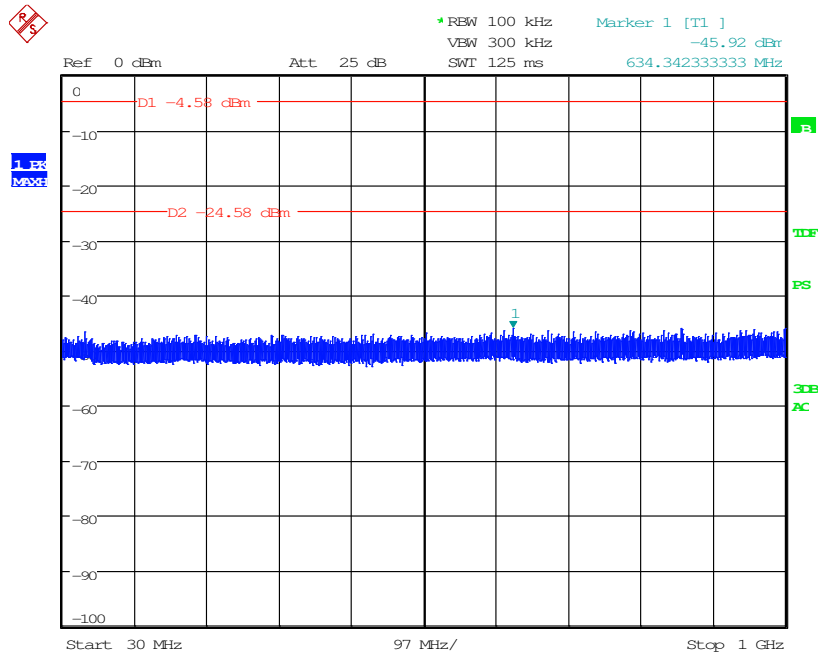
Date: 6.JUL.2016 18:19:25

Figure 7.4.2.2-7: 10 GHz – 18 GHz – Middle Channel



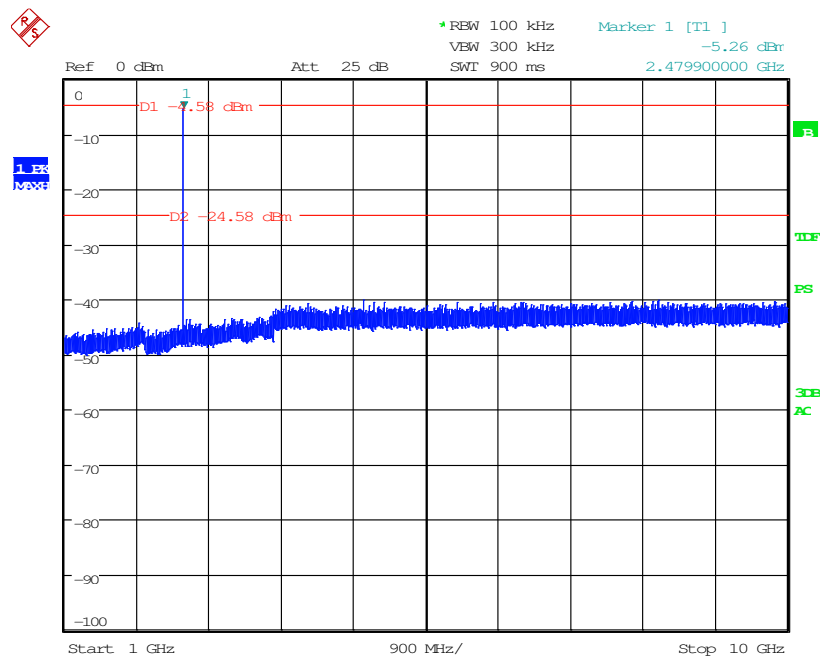
Date: 6.JUL.2016 18:21:09

Figure 7.4.2.2-8: 18 GHz – 26 GHz – Middle Channel



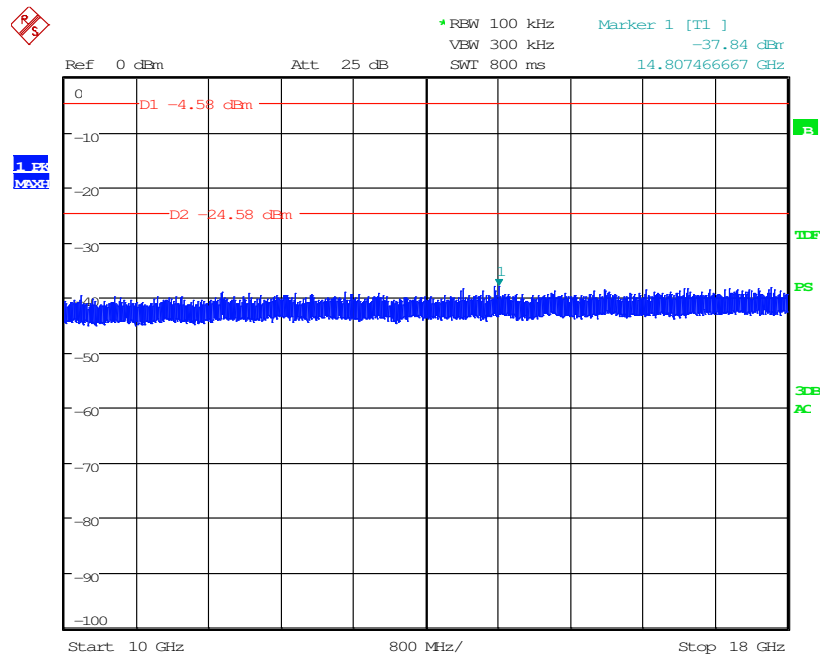
Date: 6.JUL.2016 18:14:30

Figure 7.4.2.2-9: 30 MHz – 1 GHz – High Channel



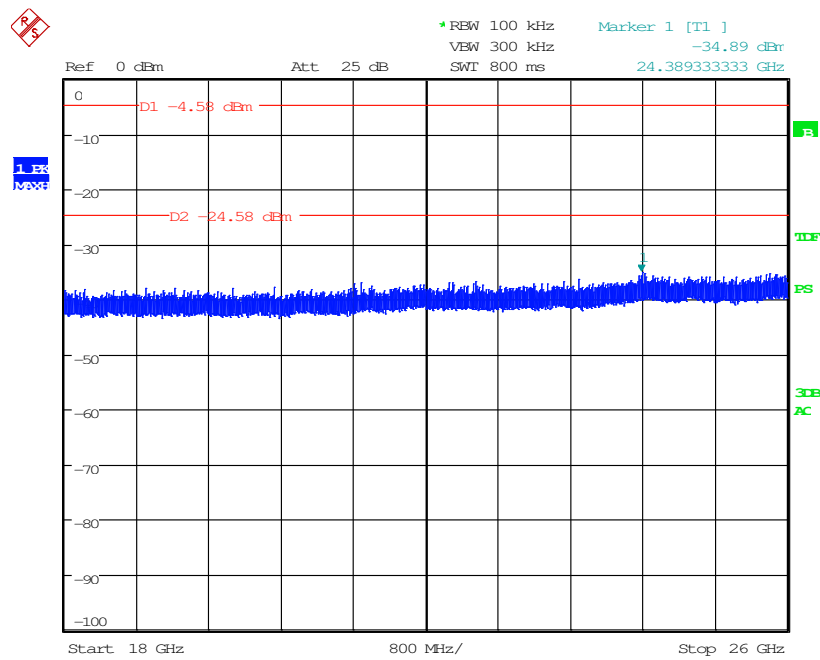
Date: 6.JUL.2016 18:12:25

Figure 7.4.2.2-10: 1 GHz –10 GHz –High Channel



Date: 6.JUL.2016 18:09:23

Figure 7.4.2.2-11: 10 GHz –18 GHz –High Channel



Date: 6.JUL.2016 18:06:50

Figure 7.4.2.2-12: 18 GHz – 26 GHz –High Channel

7.4.3 Radiated Spurious Emissions into Restricted Frequency Bands – FCC: Sections 15.205, 15.209; ISD Canada: RSS-Gen 8.9, 8.10

7.4.3.1 Measurement Procedure

Radiated emissions tests were made over the frequency range of 9 kHz to 26 GHz, 10 times the highest fundamental frequency. Each emission found to be in a restricted band as defined by section 15.205, including any emission at the operational band-edge, was compared to the radiated emission limits as defined in Section 15.209.

For measurements below 30 MHz, the receive antenna height was set to 1m and the EUT was rotated through 360 degrees. The resolution bandwidth was set to 200 Hz below 150 kHz and to 9 kHz above 150 kHz.

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 1000 MHz, peak measurements are made with RBW of 1 MHz and VBW of 3 MHz. Average measurements are performed in the linear scale using VBW of 30 Hz.

7.4.3.2 Measurement Results

Radiated band-edge and spurious emissions found in the restricted frequency bands of 9 kHz to 26 GHz are reported in the tables below.

Table 7.4.3.2-1: 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
Low Channel = 2402 MHz										
4804	50.64	43.67	V	2.92	53.56	46.59	74.0	54.0	20.4	7.4
4804	52.97	47.19	V	2.92	55.89	50.11	74.0	54.0	18.1	3.9
Middle Channel = 2440 MHz										
4880	51.25	44.78	H	3.18	54.43	47.96	74.0	54.0	19.6	6.0
4880	50.35	43.79	V	3.18	53.53	46.97	74.0	54.0	20.5	7.0
High Channel = 2480 MHz										
2483.5	64.71	54.93	H	-5.15	59.56	49.78	74.0	54.0	14.4	4.2
2483.5	64.42	54.68	V	-5.15	59.27	49.53	74.0	54.0	14.7	4.5
4960	48.22	42.59	H	3.46	51.68	46.05	74.0	54.0	22.3	8.0
4960	47.54	39.65	V	3.46	51.00	43.11	74.0	54.0	23.0	10.9

Notes:

- All emissions above 4.96 GHz were attenuated below the limits and the noise floor of the measurement equipment.

7.4.3.3 Sample Calculation:

$$R_C = R_U + CF_T$$

Where:

CF_T	=	Total Correction Factor (AF+CA+AG)-DC (Average Measurements Only)
R_U	=	Uncorrected Reading
R_C	=	Corrected Level
AF	=	Antenna Factor
CA	=	Cable Attenuation
AG	=	Amplifier Gain
DC	=	Duty Cycle Correction Factor

Example Calculation: Peak

Corrected Level: $50.64 + 2.92 = 53.56$ dB μ V/m

Margin: 74 dB μ V/m $- 53.56$ dB μ V/m = 20.4 dB

Example Calculation: Average

Corrected Level: $43.67 + 2.92 = 46.59$ dB μ V/m

Margin: 54 dB μ V/m $- 46.59$ dB μ V/m = 7.4 dB

7.5 Power Spectral Density – FCC: Section 15.247(e); ISCED Canada: RSS-247 5.2(2)

7.5.1 PSD Measurement Procedure (Conducted Method)

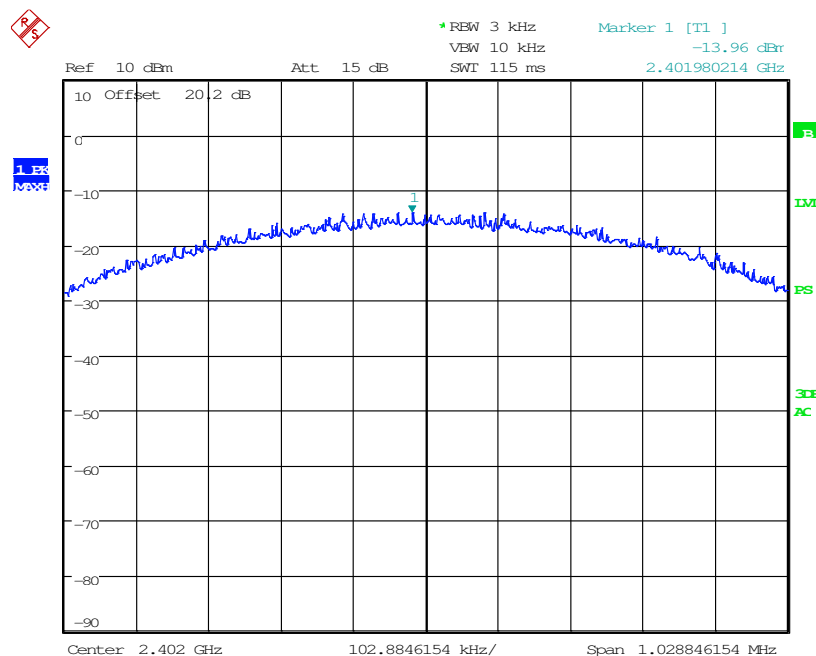
The power spectral density was measured in accordance with the FCC KDB 558074 D01 DTS Meas Guidance v03r05 Section 10.2 Method PKPSD (peak PSD). The RF output port of the EUT was directly connected to the input of the spectrum analyzer. Offset values were input for cable and external attenuation. The spectrum analyzer RBW was set to 3 kHz and VBW 10 kHz. Span was adjusted to 1.5 times the 6 dB bandwidth and the sweep time was set to auto.

7.5.2 Measurement Results

Results are shown below.

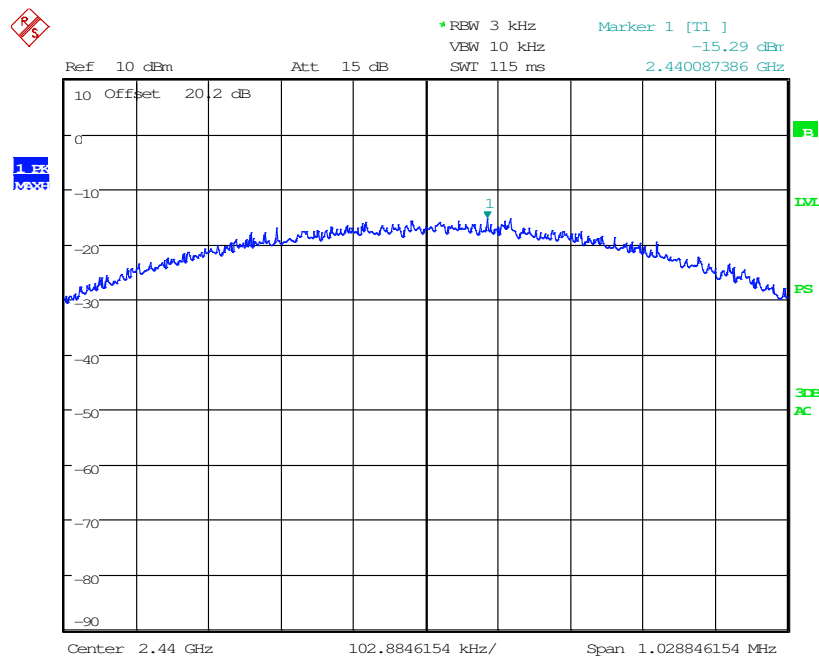
Table 7.5.2-1: Power Spectral Density

Frequency [MHz]	PSD [dBm]	Limit [dBm]	Margin [dB]
2402	-13.96	8.0	21.96
2440	-15.29	8.0	23.29
2480	-16.11	8.0	24.11



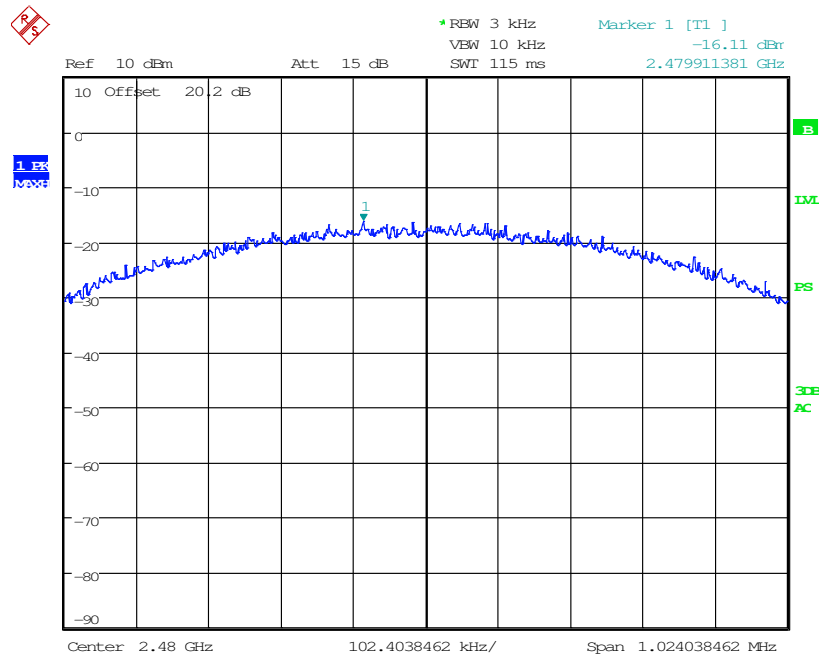
Date: 6.JUL.2016 17:50:07

Figure 7.5.2-1: Power Spectral Density - Low Channel



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Figure 7.5.2-2: Power Spectral Density - Middle Channel



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Figure 7.5.2-3: Power Spectral Density – High Channel

8 CONCLUSION

In the opinion of ACS, Inc., the model MCM1900 manufactured by MC Miller Co. Inc. meets the requirements of FCC Part 15 subpart C and Innovation, Science and Economic Development Canada's Radio Standards Specification RSS-247 for the test procedures documented in the test report.

END REPORT