



TEST REPORT

Report Number. : R12239019-E3

Applicant : Johnson Controls, Inc.
507 East Michigan Street
Milwaukee, WI 53202, USA

Model : WVS-1000

FCC ID : OEJ-WVS100

IC : 279A-WVS100

EUT Description : Vibration Sensor

Test Standard(s) : FCC 47 CFR PART 15 SUBPART C
ISED RSS-247 ISSUE 2
ISED RSS-GEN ISSUE 5 +A1

Date Of Issue:
2021-02-05

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REPORT REVISION HISTORY

Ver.	Issue Date	Revisions	Revised By
1	2018-12-19	Initial Issue	Brian T. Kiewra
2	2019-06-26	Corrected IC ID	Lariah Ijames
3	2019-07-11	Updated sections 8.6, 9.2.1, and EUT description	Niklas Haydon
4	2020-12-10	Updated standard references. Updated to current report format.	Brian T. Kiewra
4	2021-02-05	Revised Section 4 to include CABID. Revised Section 2 to state AV power is compliant	Brian T. Kiewra

TABLE OF CONTENTS

REPORT REVISION HISTORY	2
TABLE OF CONTENTS	3
1. ATTESTATION OF TEST RESULTS	5
2. TEST RESULTS SUMMARY	6
3. TEST METHODOLOGY	6
4. FACILITIES AND ACCREDITATION	6
5. DECISION RULES AND MEASUREMENT UNCERTAINTY	7
5.1. METROLOGICAL TRACEABILITY	7
5.2. DECISION RULES.....	7
5.3. MEASUREMENT UNCERTAINTY.....	7
5.1. SAMPLE CALCULATION	7
6. EQUIPMENT UNDER TEST	8
6.1. EUT DESCRIPTION	8
6.2. MAXIMUM OUTPUT POWER.....	8
6.3. DESCRIPTION OF AVAILABLE ANTENNAS	8
6.4. SOFTWARE AND FIRMWARE.....	8
6.5. WORST-CASE CONFIGURATION AND MODE.....	9
6.6. DESCRIPTION OF TEST SETUP.....	10
7. MEASUREMENT METHOD.....	11
8. TEST AND MEASUREMENT EQUIPMENT	12
9. ANTENNA PORT TEST RESULTS	14
9.1. ON TIME AND DUTY CYCLE	14
9.2. 99% BANDWIDTH.....	15
9.2.1. 802.11b MODE	15
9.2.2. 802.11g MODE	16
9.2.3. 802.11n HT20 MODE	17
9.3. 6 dB BANDWIDTH.....	18
9.3.1. 802.11b MODE	19
9.3.2. 802.11g MODE	20
9.3.3. 802.11n HT20 MODE	21
9.4. OUTPUT POWER.....	22
9.4.1. 802.11b MODE	22
9.4.1. 802.11g MODE	22
9.4.1. 802.11nHT20 MODE	22
9.5. POWER SPECTRAL DENSITY.....	23
9.5.1. 802.11b MODE	24
9.5.2. 802.11g MODE	25
9.5.3. 802.11n HT20 MODE	26
9.6. CONDUCTED SPURIOUS EMISSIONS.....	27
9.6.1. 802.11b MODE	28
9.6.2. 802.11g MODE	29

9.6.3. 802.11n HT20 MODE30

10. RADIATED TEST RESULTS.....31

10.1. TRANSMITTER ABOVE 1 GHz.....32

10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND32

10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND42

10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND.....56

10.2. WORST CASE RADIATED70

10.2.1. 0.009 - 30MHz SPURIOUS EMISSIONS70

10.2.2. 30-1000MHz SPURIOUS EMISSIONS71

10.2.3. 18-26 GHz SPURIOUS EMISSIONS73

11. AC POWER LINE CONDUCTED EMISSIONS75

11.1.1. AC Power Line Host.....76

12. SETUP PHOTOS.....78

END OF TEST REPORT78

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Johnson Controls, Inc.
507 East Michigan Street
Milwaukee, WI 53202, USA

EUT DESCRIPTION: Vibration Sensor

MODEL: WVS-1000

SERIAL NUMBER: Radiated: 1811-002D3, 1811-002CA
Conducted: 1811-002B5, 1811-002CE

DATE TESTED: 2018-10-25 to 2018-11-08

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Compliant
ISED RSS-247 Issue 2	Compliant
ISED RSS-GEN Issue 5+A1	Compliant

UL LLC Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.


This document may not be altered or revised in any way unless done so by UL LLC Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. government.

Approved & Released
For UL LLC by:



Jeffrey Moser
Operations Leader
UL – Consumer Technology Division

Prepared By:



Brian T. Kiewra
Project Engineer
UL – Consumer Technology Division

2. TEST RESULTS SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
See Comment		Duty Cycle	Reporting purposes only	ANSI C63.10 Section 11.6.
-	RSS-GEN 6.7	99% OBW	Reporting purposes only	ANSI C63.10 Section 6.9.3.
15.247 (a) (2)	RSS-247 5.2 (a)	6dB BW	Compliant	None.
See Comment		Average power	Compliant	Per ANSI C63.10, Section 11.9.2.3.2.
15.247 (e)	RSS-247 5.2 (b)	PSD	Compliant	None.
15.247 (d)	RSS-247 5.5	Conducted Spurious Emissions	Compliant	None.
15.209, 15.205	RSS-GEN 8.9, 8.10	Radiated Emissions	Compliant	None.
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	Compliant	None.

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15: 2020, ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, RSS-GEN Issue 5 + Amendment 1: 2019, and RSS-247 Issue 2:2017.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, North Carolina 27709, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, North Carolina 27560, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.	2800 Perimeter Park Dr.
Site Code: 2180C	
<input type="checkbox"/> Chamber A RTP	<input checked="" type="checkbox"/> North Chamber
<input type="checkbox"/> Chamber C RTP	<input type="checkbox"/> South Chamber

The above test sites and facilities are covered under FCC Test Firm Registration # 703469. Chambers above are covered under Industry Canada company address and respective code.

UL LLC (RTP), CABID 0067, is accredited by NVLAP, Laboratory Code 200246-0

5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	2.00%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
RF output power, radiated (SAC)	4.52 dB
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	3.05 dB
All emissions, radiated	4.88 dB
Temperature	2.26°C
Humidity	6.79%
DC Supply voltages	1.70%
Time	3.39%

Uncertainty figures are valid to a confidence level of 95%.

5.1. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

MAINS CONDUCTED EMISSIONS

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.
 $36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$

6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a device to collect vibration data via vibration sensor and save the captured data to computer or send it to cloud by WiFi or cellphone.

6.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

2.4GHz BAND

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	19.01	79.62
2412 - 2462	802.11g	17.35	54.33
2412 - 2462	802.11n HT20	16.86	48.53

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an PCB antenna, with a maximum gain of 0.5 dBi.

6.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was v0.0.13.
The test utility software used during testing was OS vB43

6.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power and PSD as worst-case scenario.

Radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

Worst-case data rates as observed by data rate check:

802.11b mode: 11 Mbps

802.11g mode: 6 Mbps

802.11n HT20mode: MCS0

6.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Lenovo	T470	PF0ZV66P	NA
Vibration Sensor	CTC	ACC199-149	1027	NA

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB c	USB	<3m	Data and charging
2	Audio	1	3.5mm Audio	Audio	<3m	None
3	Sensor	1	5pin barrel	Proprietary	<3m	Connects to vibration sensor

TEST SETUP

The EUT is connected to a test laptop during the tests. Test software exercised the radio card.

SETUP DIAGRAM

Please refer to R12239019-EP4 for setup diagrams

7. MEASUREMENT METHOD

On Time and Duty Cycle: ANSI C63.10 Section 11.6

6 dB BW: ANSI C63.10 Subclause -11.8.1

Occupied BW (99%): ANSI C63.10-2013 Section 6.9.3

Output Power: ANSI C63.10 Subclause - 11.9.2.3.2 (AVGPM-G)

PSD: ANSI C63.10 Subclause -11.10.2 (Peak PSD)

Emissions in non-restricted frequency bands: ANSI C63.10 Subclause -11.11

Radiated emissions restricted frequency bands: ANSI C63.10 Subclause -11.12.1

General Radiated Emissions: ANSI C63.10:2013 Sections 6.3 – 6.6

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - North Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz (Loop Ant.)					
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2018-01-02	2019-01-02
30-1000 MHz					
AT0073	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2018-08-06	2019-08-06
1-18 GHz					
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2018-04-30	2019-04-30
18-26 GHz					
AT0076	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2017-10-10	2018-10-31
Gain-Loss Chains					
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2018-09-06	2019-09-06
N-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2018-05-20	2019-05-20
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2018-03-23	2019-03-23
N-SAC04	Gain-loss string: 18-40GHz	Various	Various	2018-09-30	2019-03-31
Receiver & Software					
SA0027	Spectrum Analyzer	Agilent	N9030A	2018-04-04	2019-04-04
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Additional Equipment used					
s/n 161024690	Environmental Meter	Fisher Scientific	15-077-963	2016-12-21	2018-12-21

Test Equipment Used - Wireless Conducted Measurement Equipment

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
T177 (PRE0079253)	Spectrum Analyzer	Agilent Technologies	E4446A	2018-04-12	2019-04-12
PWM001	RF Power Meter	Keysight Technologies	N1912A	2018-05-30	2019-07-30
PWS007	Peak and Avg Power Sensor, 50MHz to 6GHz	Keysight Technologies	E9323A	2018-05-30	2019-05-31
PWM003 (PRE0137345)	RF Power Meter	Keysight Technologies	N1911A	2018-07-30	2019-07-30
PWS003 (PRE0126442)	Peak and Avg Power Sensor, 50MHz to 6GHz	Keysight Technologies	E9323A	2018-07-30	2019-07-30
SN 161024885	Environmental Meter	Fisher Scientific	15-077-963	2016-12-23	2018-12-23

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2018-06-19	2019-06-19
s/n 160938893	Environmental Meter	Fisher Scientific	14-650-118	2016-11-02	2018-11-02
LISN003	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2018-08-21	2019-08-21
PRE0101521 (75141)	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2018-08-22	2019-08-22
TL001	Transient Limiter, 0.009-30MHz	Com-Power	LIT-930A	2018-06-13	2019-06-13
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA

9. ANTENNA PORT TEST RESULTS

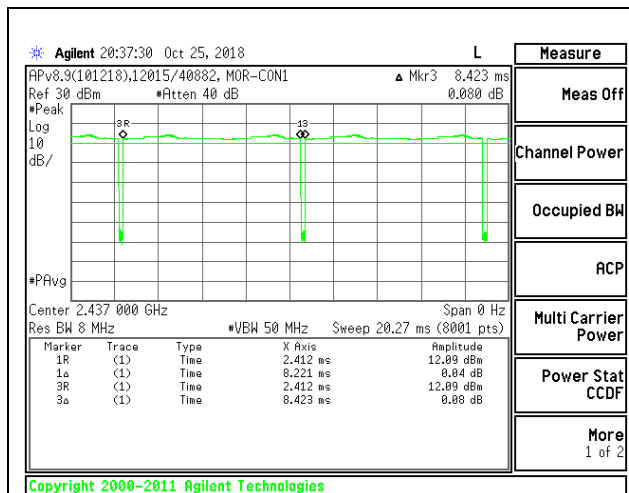
9.1. ON TIME AND DUTY CYCLE

LIMITS

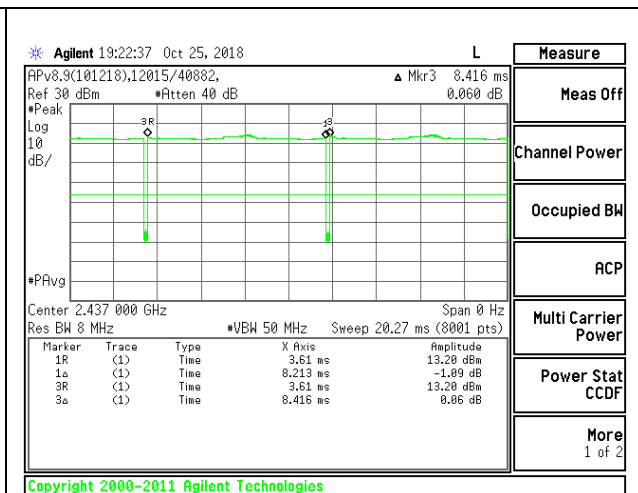
None; for reporting purposes only.

ON TIME AND DUTY CYCLE RESULTS

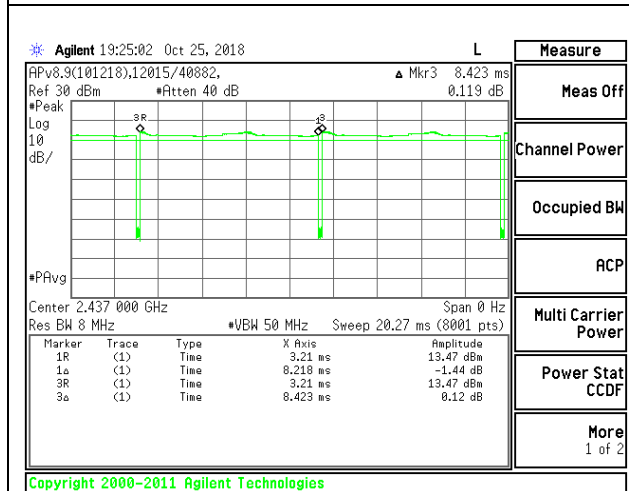
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
2.4GHz Band						
802.11b 1TX	8.221	8.423	0.976	97.60%	0.11	0.122
802.11g 1TX	8.213	8.416	0.976	97.59%	0.11	0.122
802.11n HT20 1TX	8.218	8.423	0.976	97.57%	0.11	0.122



DUTY CYCLE 802.11b MODE



DUTY CYCLE 802.11g MODE



DUTY CYCLE 802.11nHT20 MODE

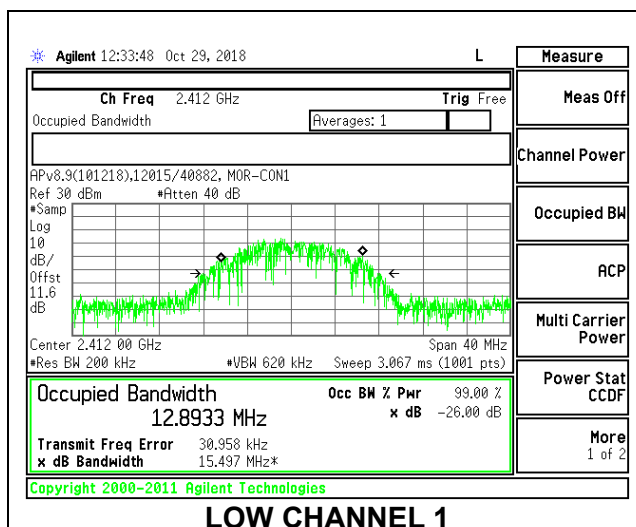
9.2. 99% BANDWIDTH

LIMITS

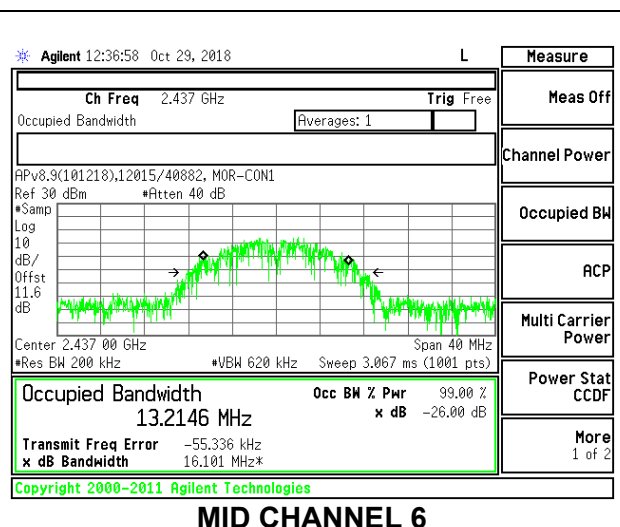
None; for reporting purposes only.

9.2.1. 802.11b MODE

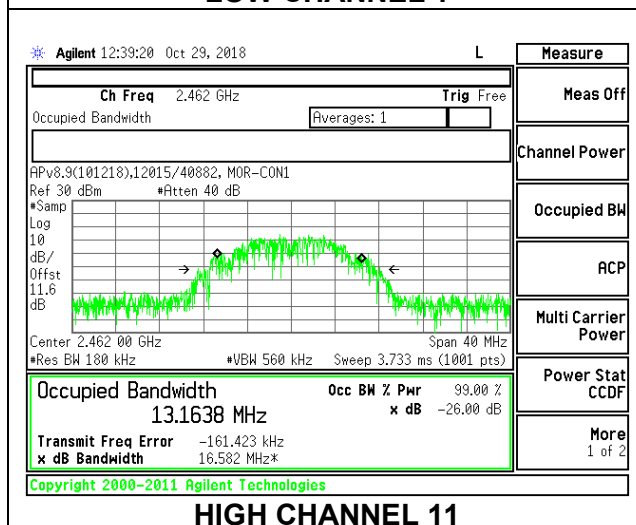
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	12.8933
Mid 6	2437	13.2146
High 11	2462	13.1638



LOW CHANNEL 1



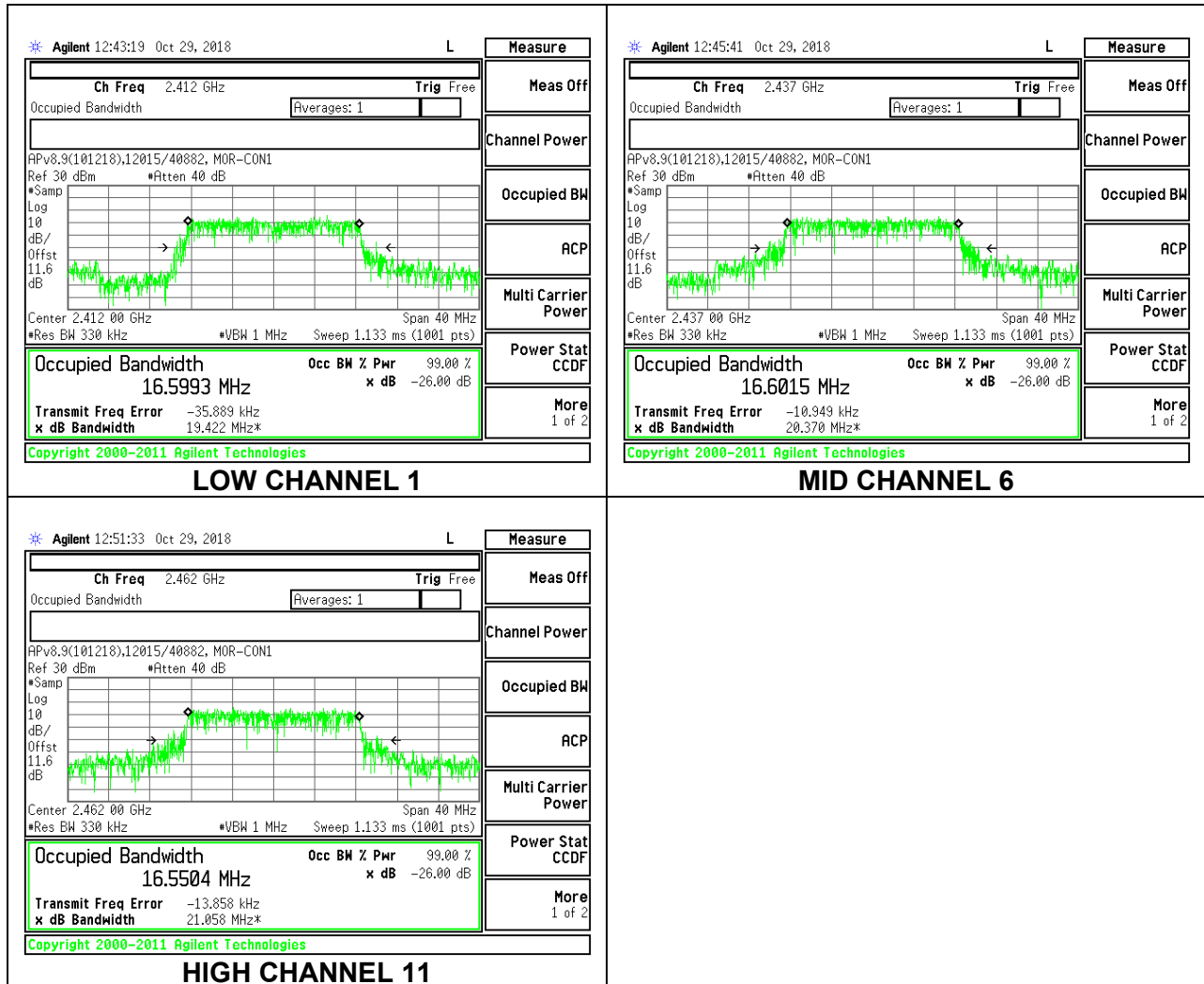
MID CHANNEL 6



HIGH CHANNEL 11

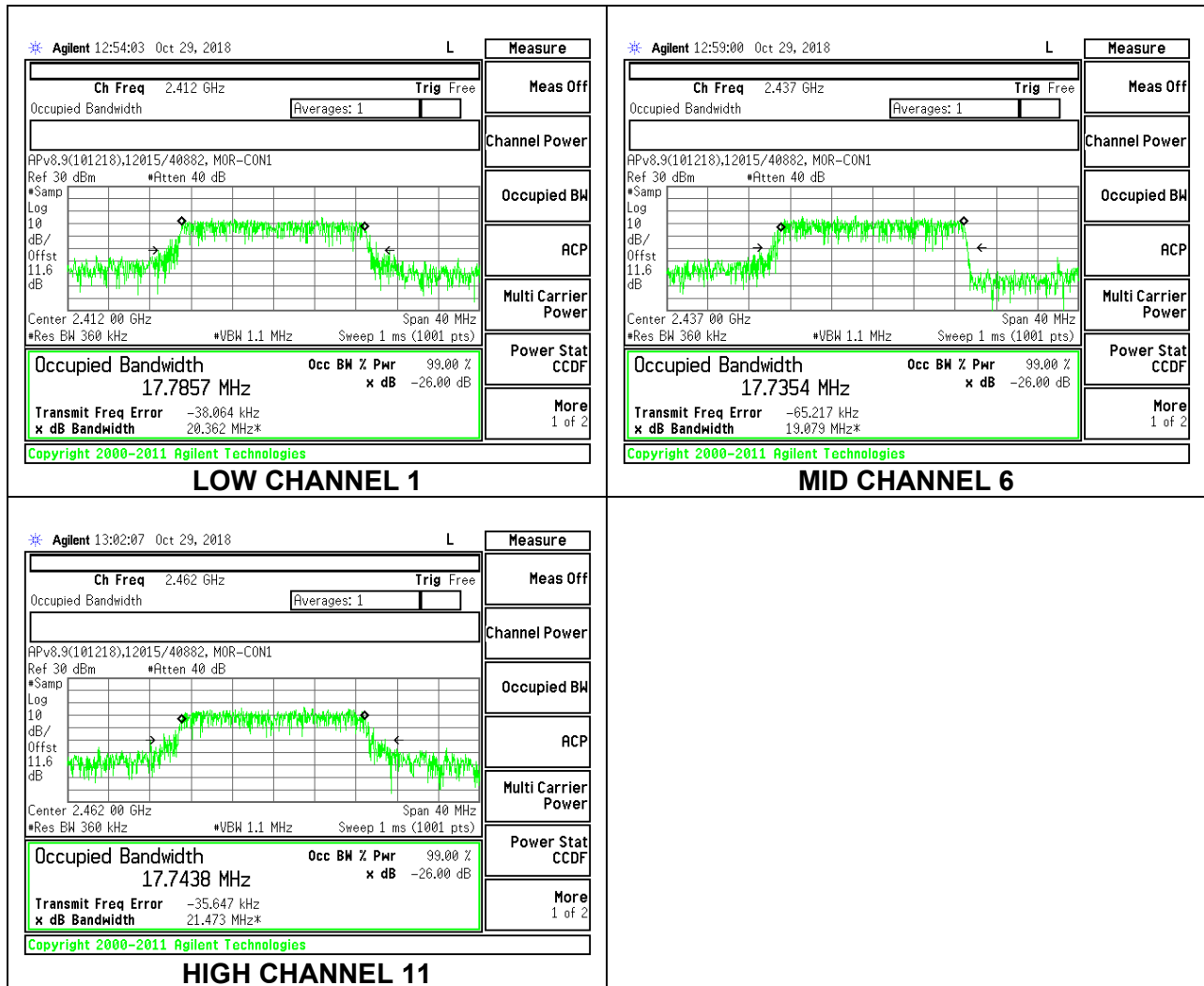
9.2.2. 802.11g MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	16.5993
Mid 6	2437	16.6015
High 11	2462	16.5504



9.2.3. 802.11n HT20 MODE

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low 1	2412	17.7857
Mid 6	2437	17.7354
High 11	2462	17.7438



9.3. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

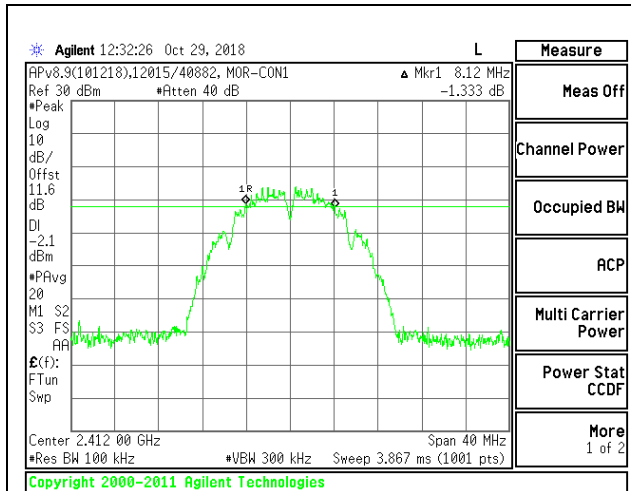
RSS-247 5.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

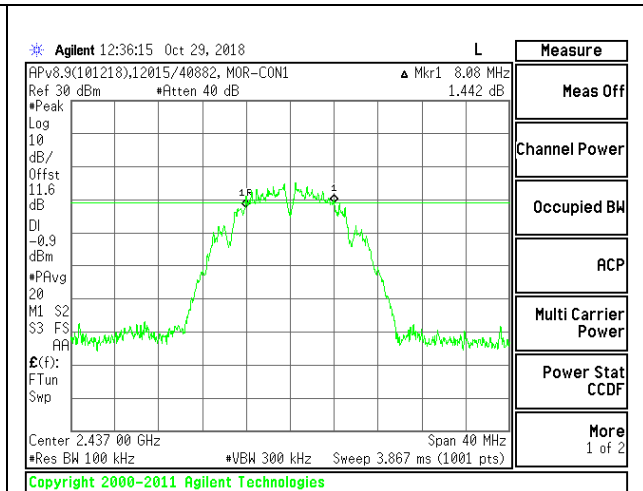
RESULTS

9.3.1. 802.11b MODE

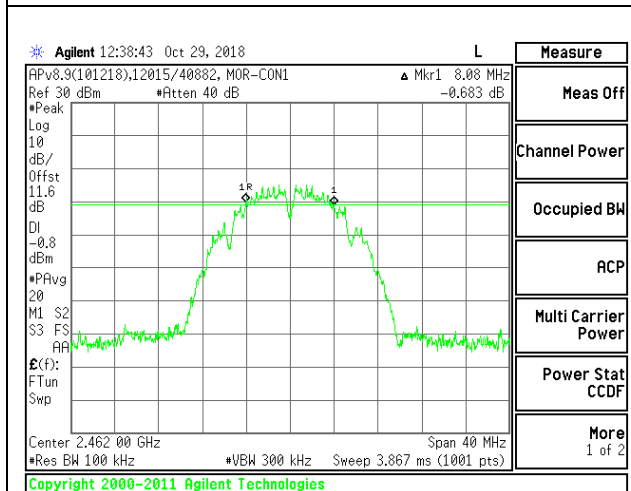
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	8.12	0.5
Mid 6	2437	8.08	0.5
High 11	2462	8.08	0.5



LOW CHANNEL 1



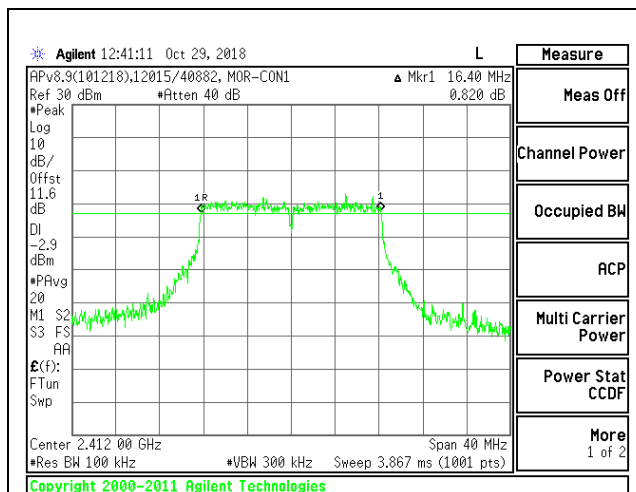
MID CHANNEL 6



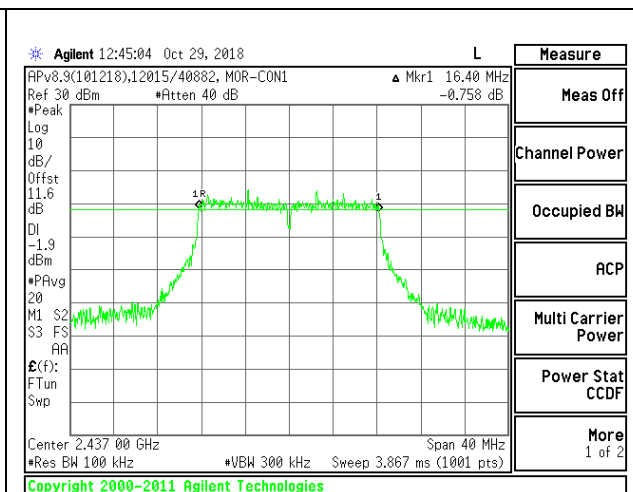
HIGH CHANNEL 11

9.3.2. 802.11g MODE

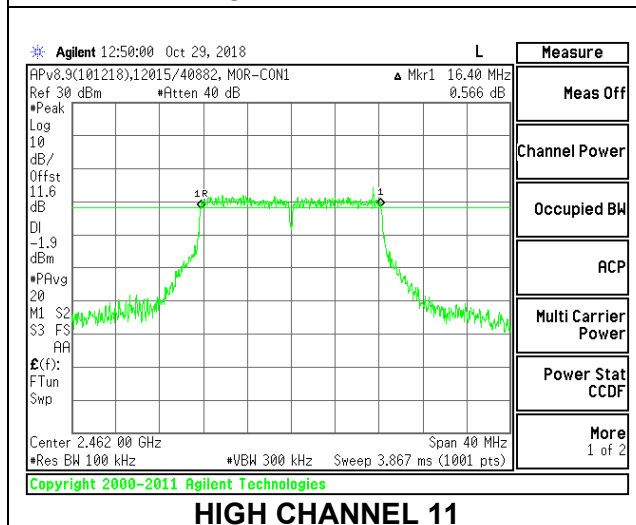
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	16.40	0.5
Mid 6	2437	16.40	0.5
High 11	2462	16.40	0.5



LOW CHANNEL 1



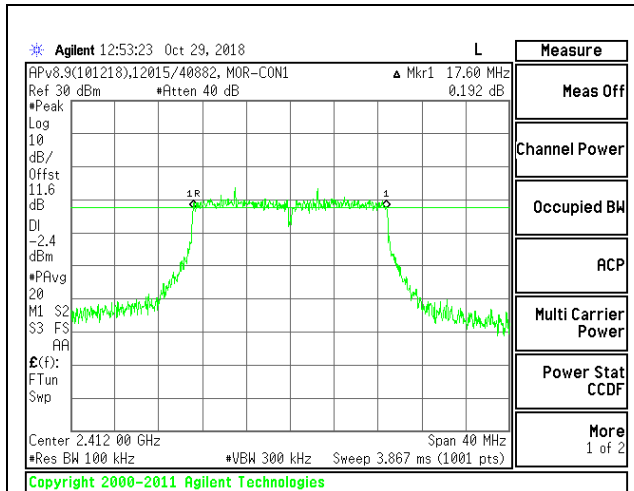
MID CHANNEL 6



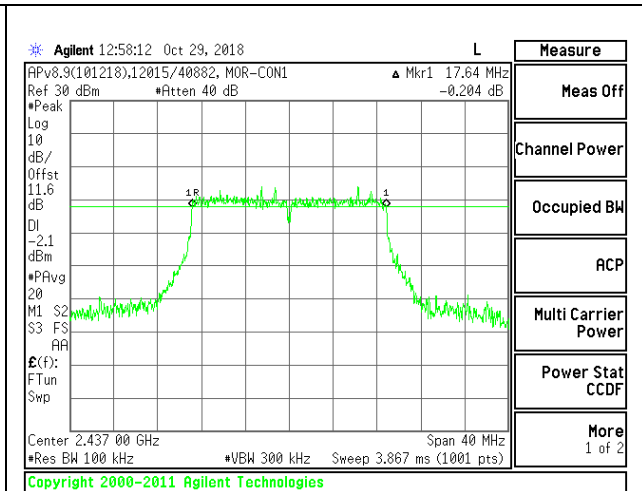
HIGH CHANNEL 11

9.3.3. 802.11n HT20 MODE

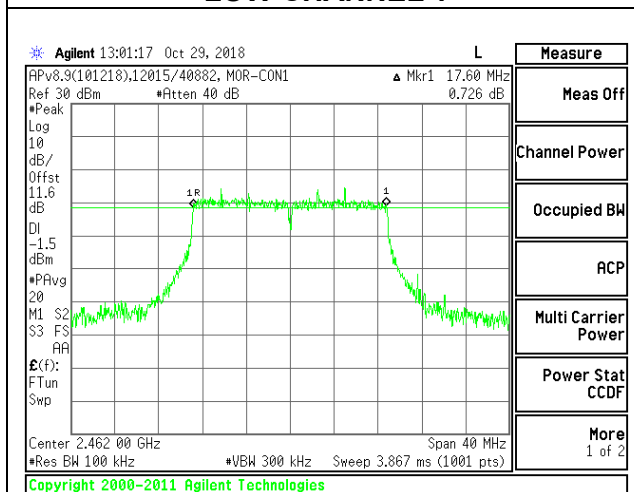
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low 1	2412	17.60	0.5
Mid 6	2437	17.64	0.5
High 11	2462	17.60	0.5



LOW CHANNEL 1



MID CHANNEL 6



HIGH CHANNEL 11

9.4. OUTPUT POWER

LIMITS

FCC §15.247 (b) (3)

IC RSS-247 5.4 (d)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

RESULTS

The cable assembly insertion loss of 11.6 dB (including 10 dB pad and 1.6 dB cable) was entered as an offset in the power meter to allow for direct reading of power. All measurements were Average Gated Measurements.

9.4.1. 802.11b MODE

Channel	Frequency (MHz)	AV power (dBm)
Low	2412	18.04
Middle	2437	18.20
High	2462	19.01

9.4.1. 802.11g MODE

Channel	Frequency (MHz)	AV power (dBm)
Low	2412	16.46
Middle	2437	17.21
CH 9	2452	17.35
CH 10	2457	15.61
High	2462	12.58

9.4.1. 802.11nHT20 MODE

Channel	Frequency (MHz)	AV power (dBm)
Low	2412	14.41
CH 2	2417	15.33
Middle	2437	16.43
CH 10	2457	16.86
High	2462	12.21

TEST INFORMATION

Test Date: 2018-11-02

Project No: 12239019

Tested By: 12015\40882

9.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

RSS-247 (5.2) (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

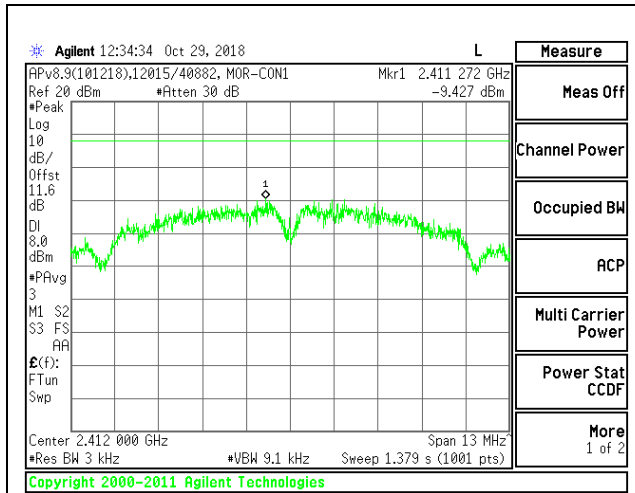
RESULTS

Note: PSD taken at mid channel power setting.

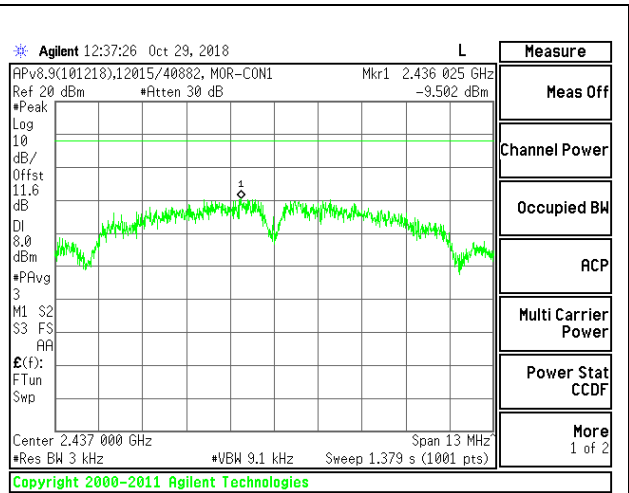
9.5.1. 802.11b MODE

PSD Results

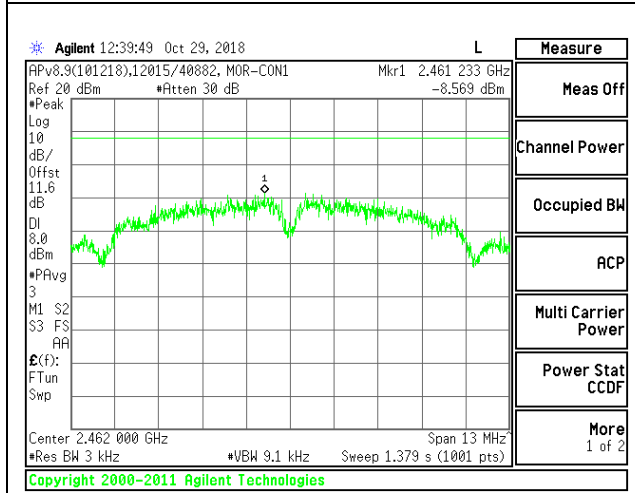
Channel	Frequency (MHz)	Chain 0 Meas (dBm/3kHz)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-9.427	-9.43	8.0	-17.4
Mid 6	2437	-9.502	-9.50	8.0	-17.5
High 11	2462	-8.569	-8.57	8.0	-16.6



LOW CHANNEL 1



MID CHANNEL 6

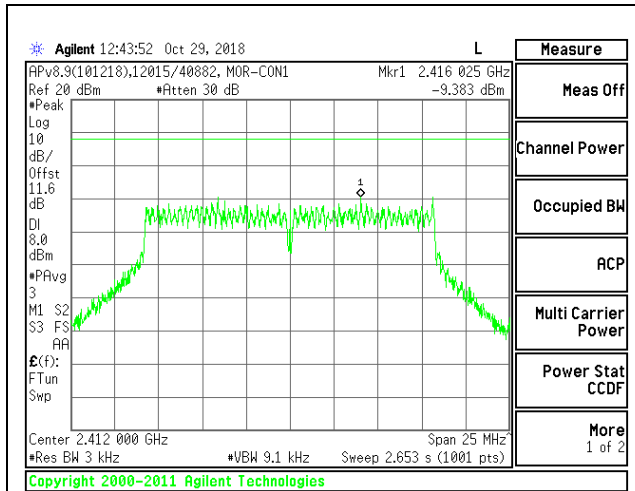


HIGH CHANNEL 11

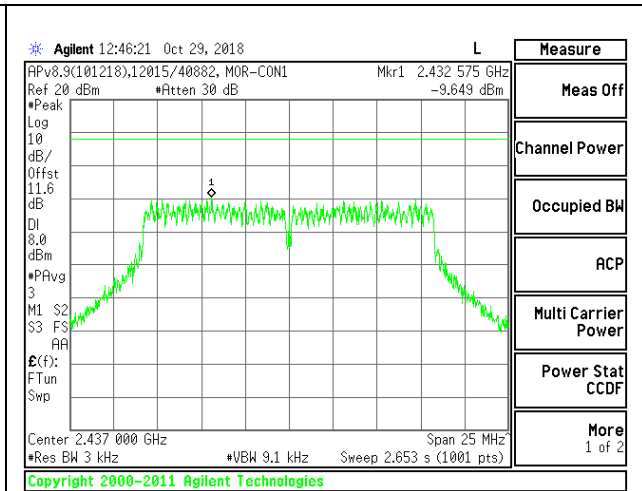
9.5.2. 802.11g MODE

PSD Results

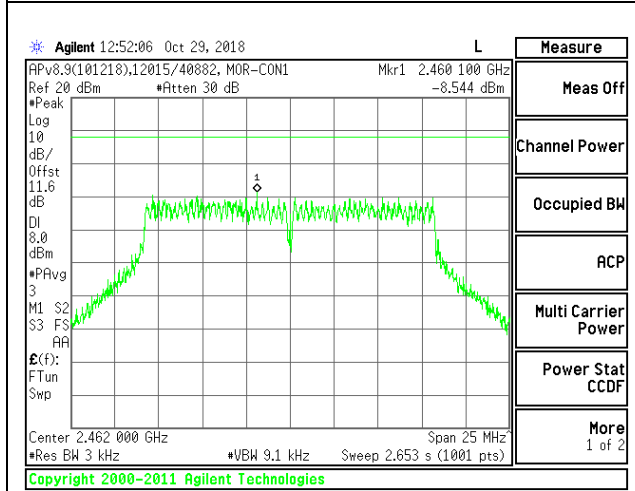
Channel	Frequency (MHz)	Chain 0 Meas (dBm/3kHz)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-9.383	-9.38	8.0	-17.4
Mid 6	2437	-9.649	-9.65	8.0	-17.6
High 11	2462	-8.544	-8.54	8.0	-16.5



LOW CHANNEL 1



MID CHANNEL 6

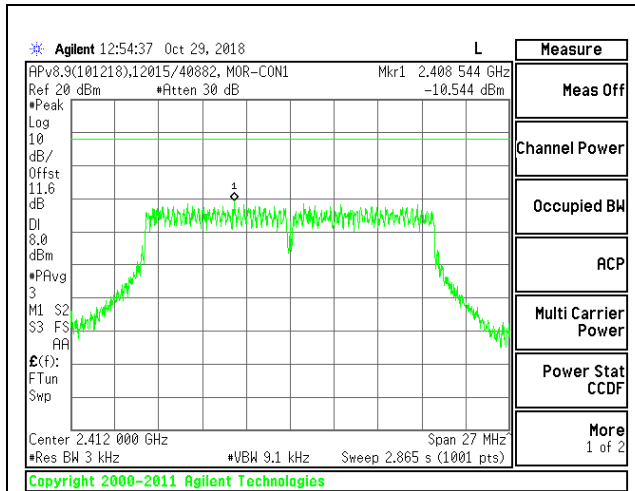


HIGH CHANNEL 11

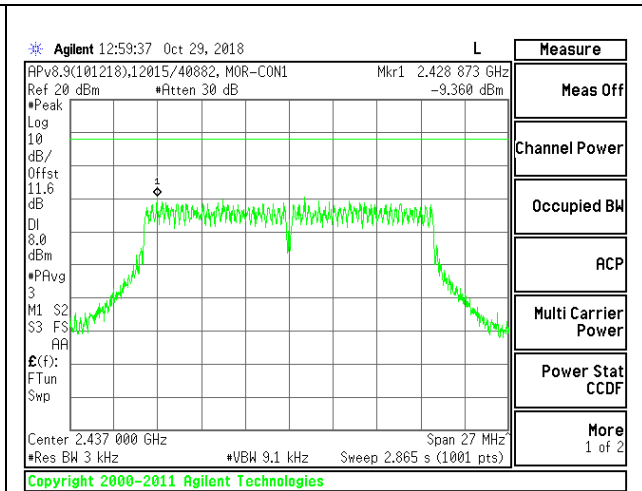
9.5.3. 802.11n HT20 MODE

PSD Results

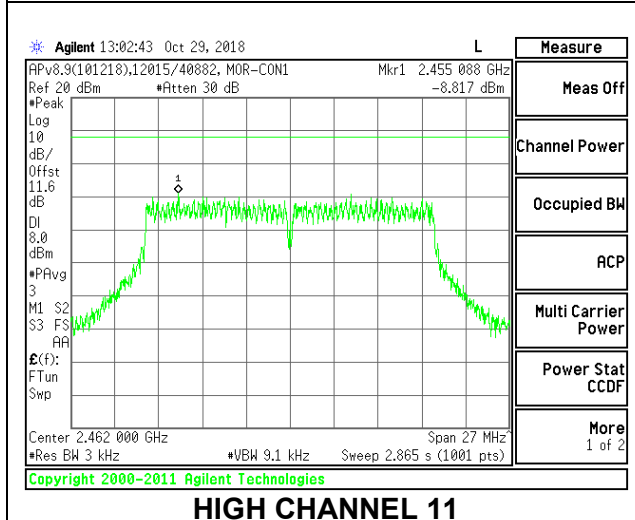
Channel	Frequency (MHz)	Chain 0 Meas (dBm/3kHz)	Total Corr'd PSD (dBm/3kHz)	Limit (dBm/3kHz)	Margin (dB)
Low 1	2412	-10.544	-10.54	8.0	-18.5
Mid 6	2437	-9.360	-9.36	8.0	-17.4
High 11	2462	-8.817	-8.82	8.0	-16.8



LOW CHANNEL 1



MID CHANNEL 6



HIGH CHANNEL 11

9.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

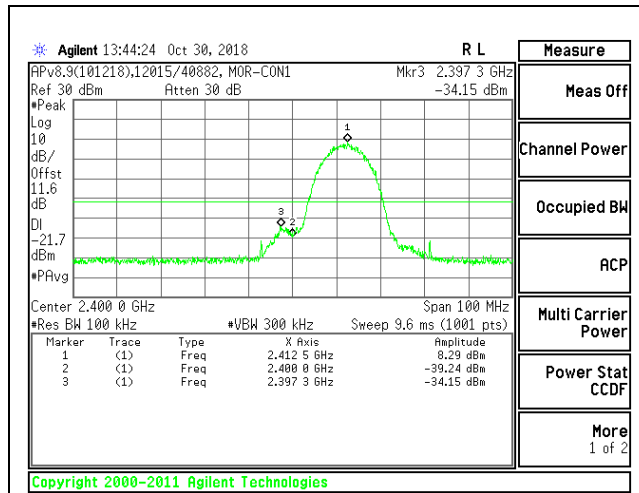
RSS-247 5.5

Output power was measured based on the use of peak measurement, therefore the required attenuation is 30 dBc.

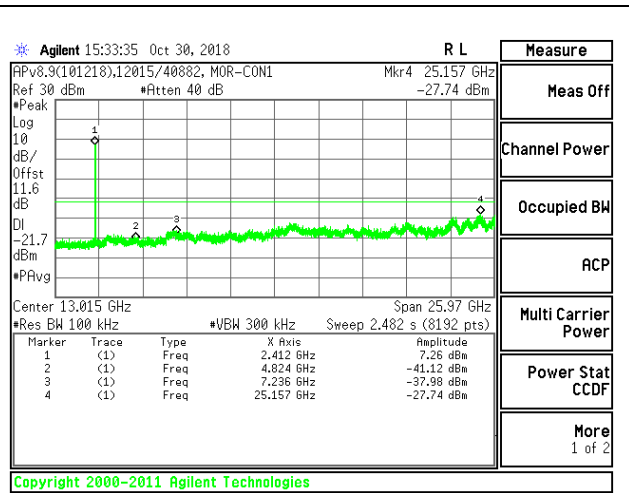
RESULTS

Note: Data taken at mid channel power setting.

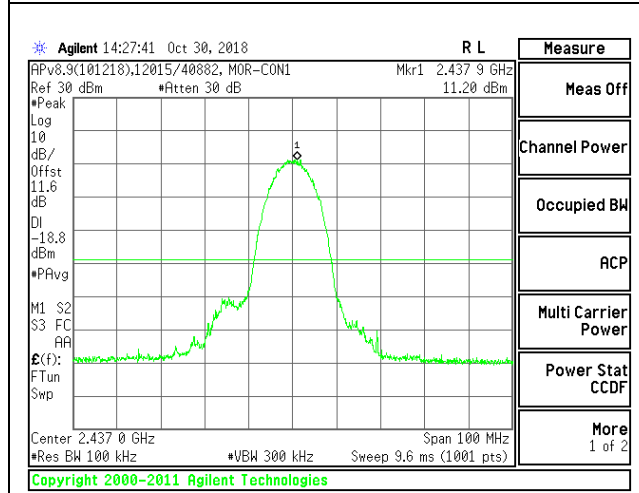
9.6.1. 802.11b MODE



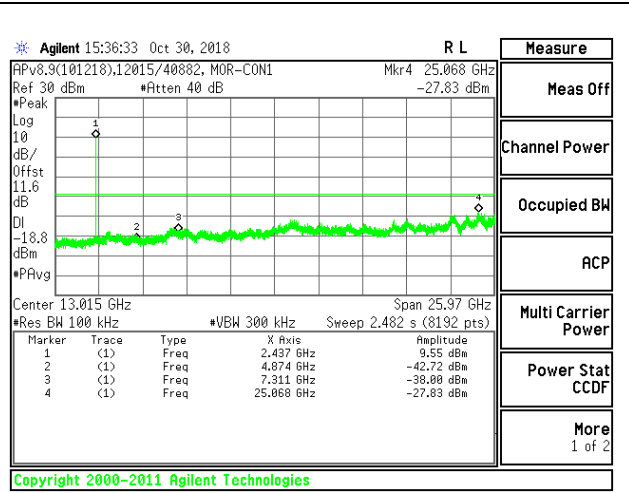
LOW CHANNEL 1 BANDEDGE



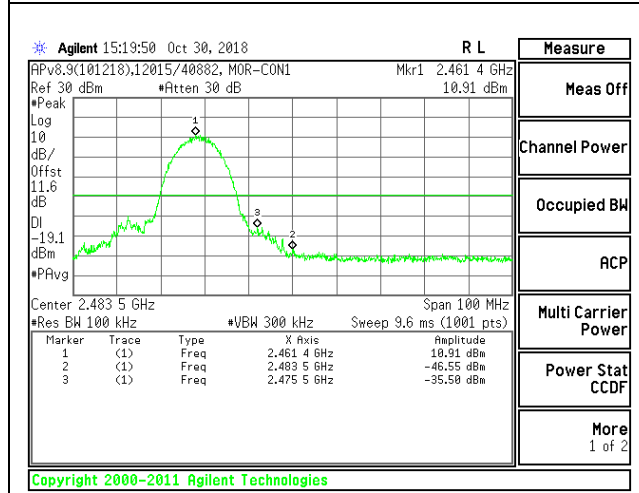
OUT-OF-BAND LOW CHANNEL 1



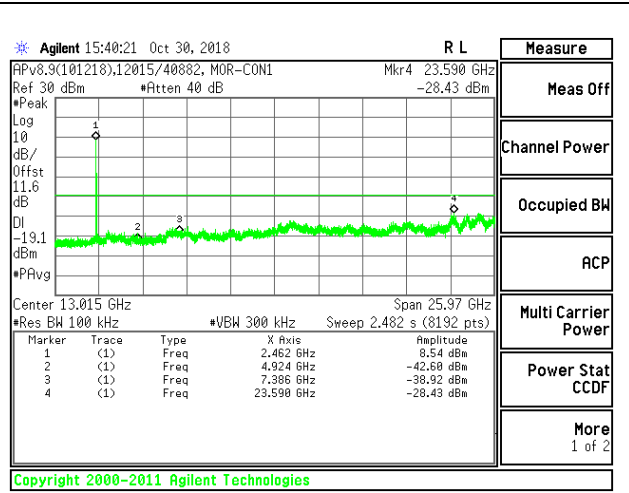
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

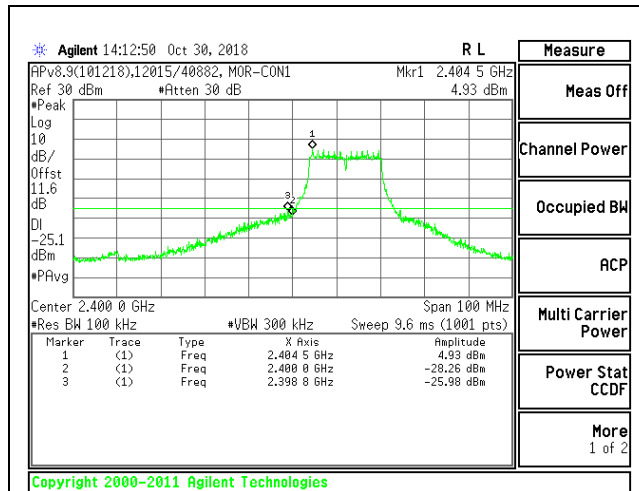


HIGH CHANNEL 11 BANDEDGE

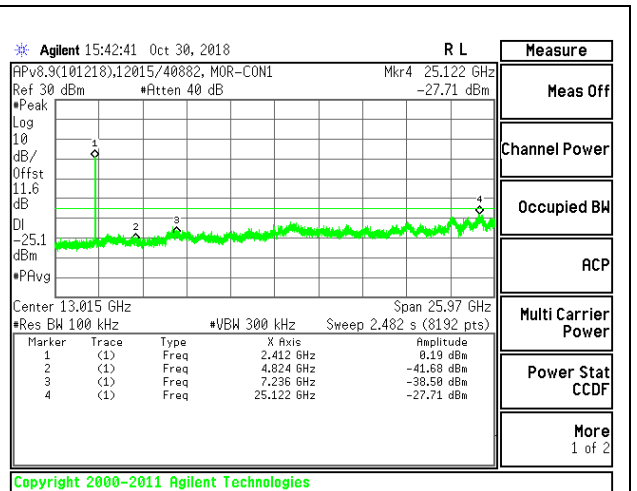


OUT-OF-BAND HIGH CHANNEL 11

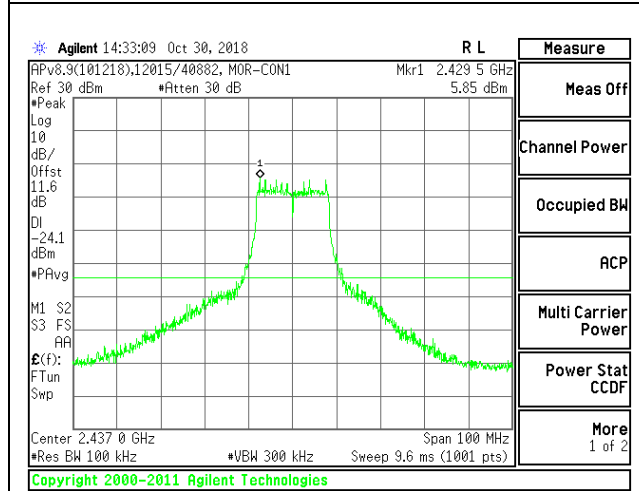
9.6.2. 802.11g MODE



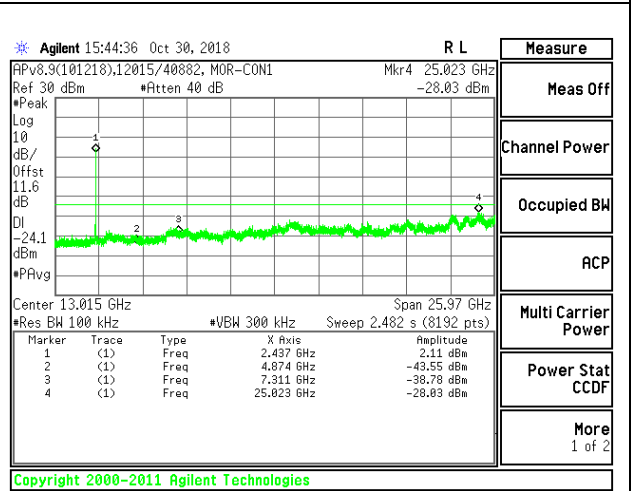
LOW CHANNEL 1 BANDEDGE



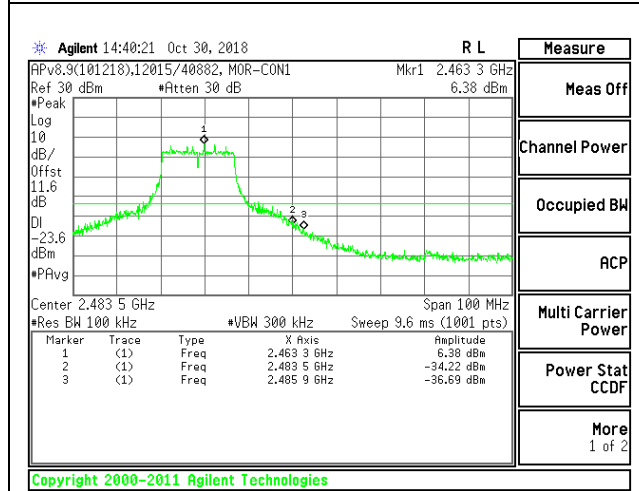
OUT-OF-BAND LOW CHANNEL 1



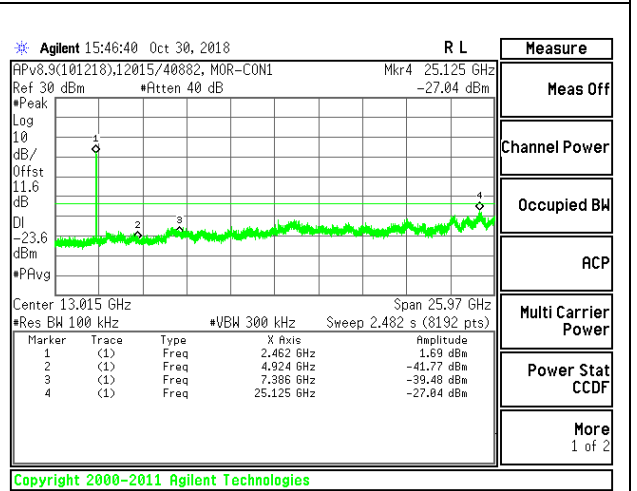
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL

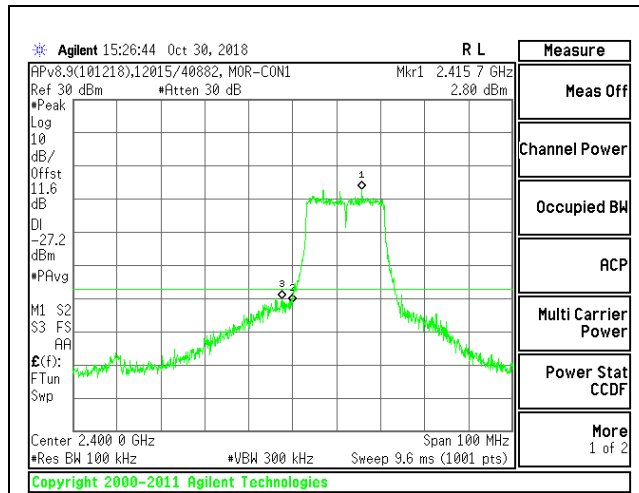


HIGH CHANNEL 11 BANDEDGE

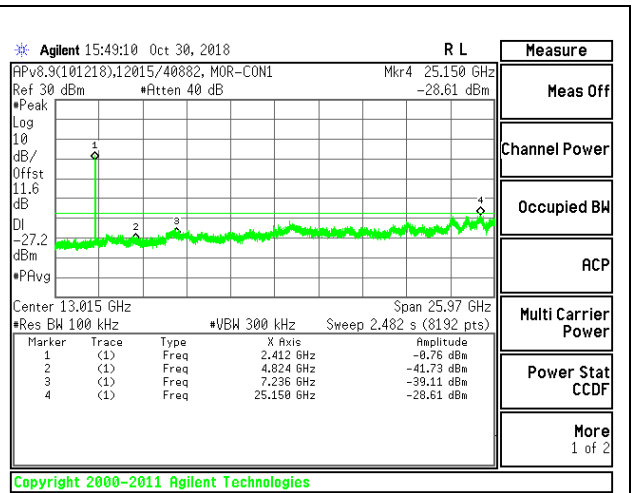


OUT-OF-BAND HIGH CHANNEL 11

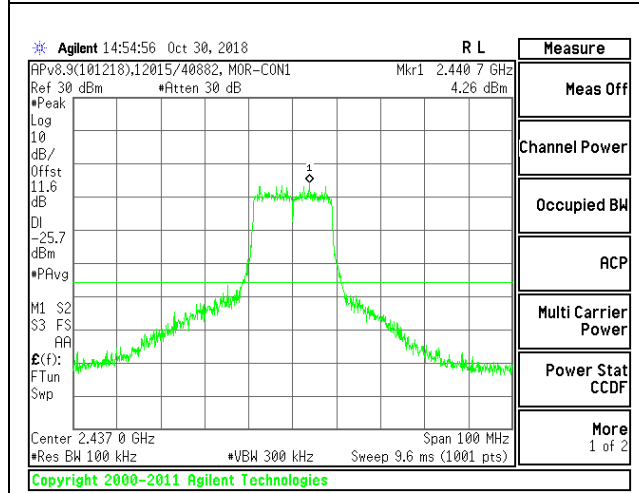
9.6.3. 802.11n HT20 MODE



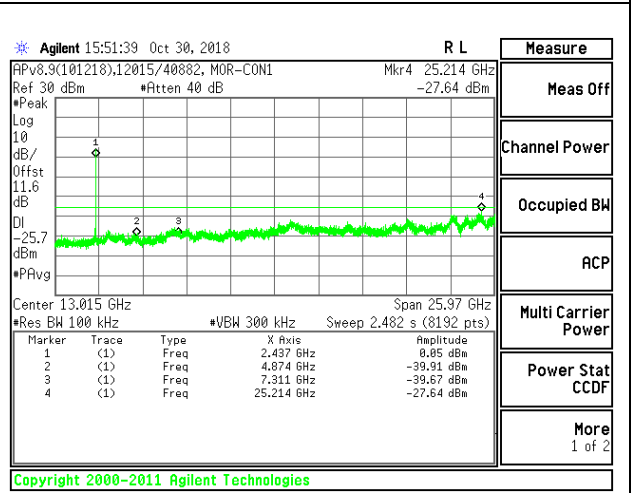
LOW CHANNEL 1 BANDEDGE



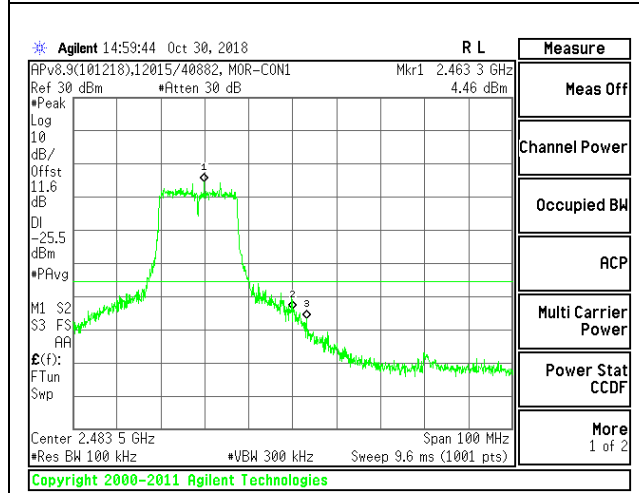
OUT-OF-BAND LOW CHANNEL 1



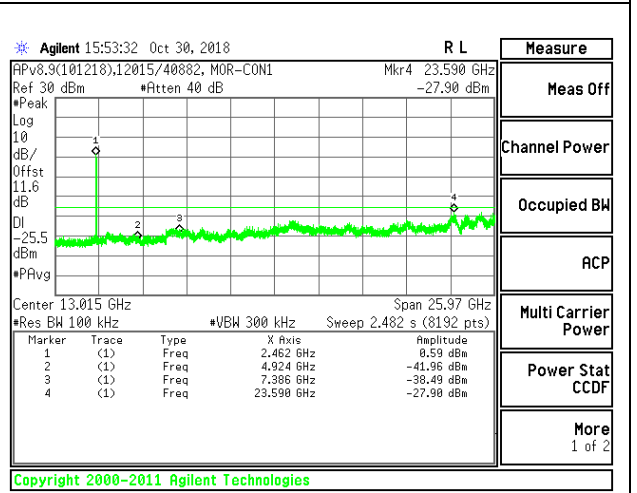
IN-BAND REFERENCE LEVEL



OUT-OF-BAND MID CHANNEL



HIGH CHANNEL 11 BANDEDGE



OUT-OF-BAND HIGH CHANNEL 11

10. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209
RSS-GEN, Section 8.9 and 8.10

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements for the 30-1000 MHz range, 9 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements for the 0.15-30 MHz range and 200 Hz for peak detection measurements or 200 Hz for quasi-peak detection measurements for the 9 to 150 kHz range. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For average measurements above 1GHz, the resolution bandwidth and video bandwidth are set as described in ANSI C63.10:2013 for the applicable measurement. The particular averaging method used for this test program was RMS.

The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power and PSD was tested.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

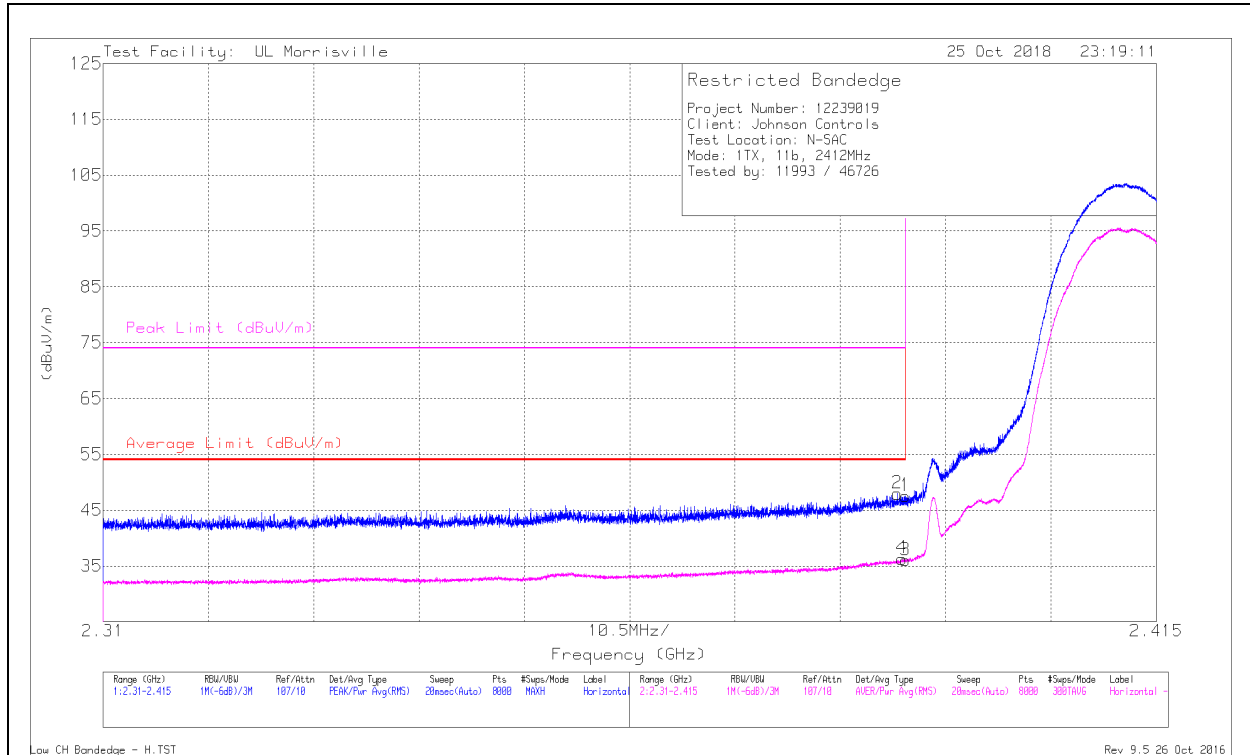
OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

10.1. TRANSMITTER ABOVE 1 GHz

10.1.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	40.03	Pk	32	-24.5	0	47.53	-	-	74	-26.47	326	188	H
2	*** 2.389	40.47	Pk	32	-24.5	0	47.97	-	-	74	-26.03	326	188	H
3	*** 2.39	28.42	RMS	32	-24.5	.11	36.03	54	-17.97	-	-	326	188	H
4	*** 2.39	28.72	RMS	32	-24.5	.11	36.33	54	-17.67	-	-	326	188	H

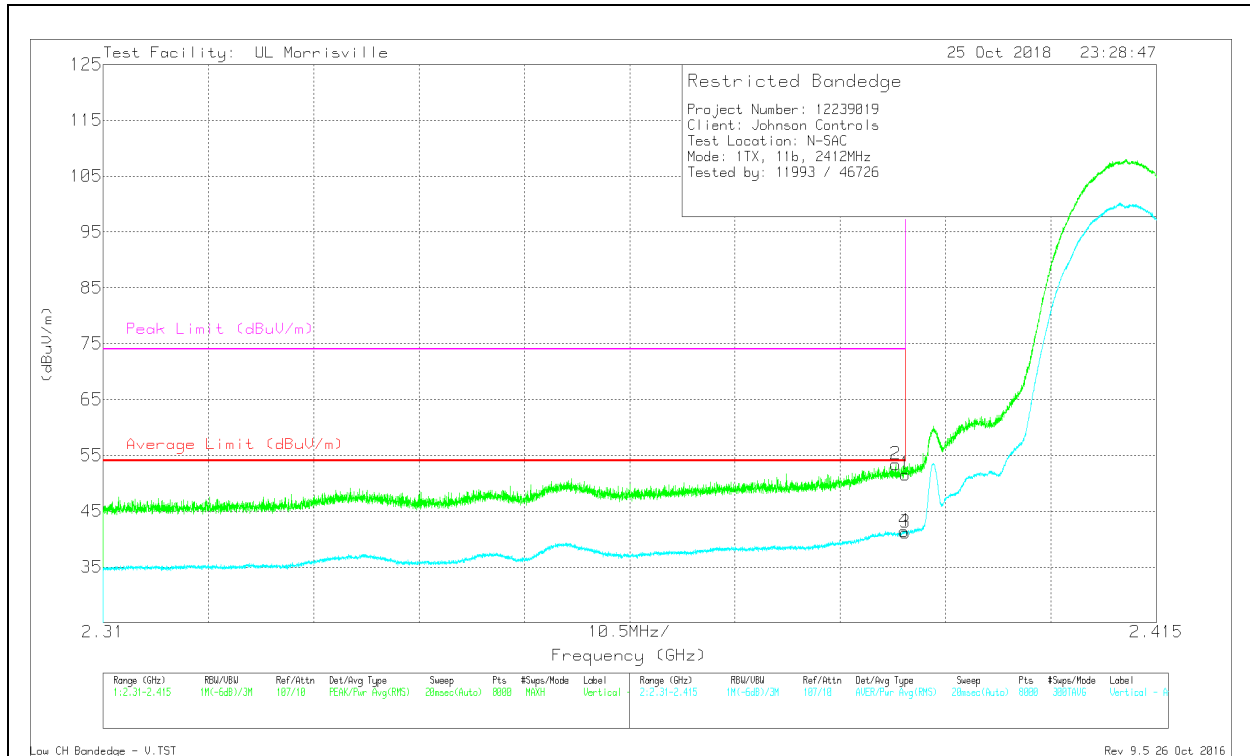
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

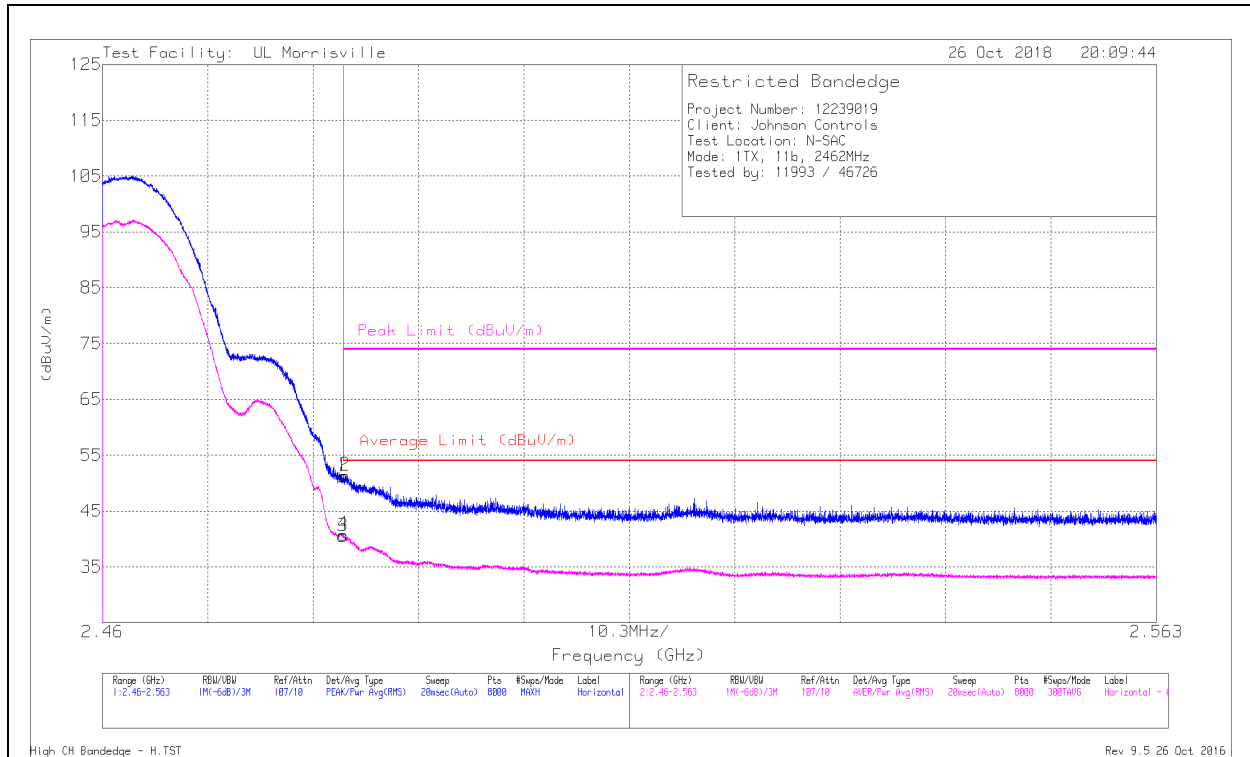


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	44.09	Pk	32	-24.5	0	51.59	-	-	74	-22.41	207	169	V
2	*** 2.389	45.88	Pk	32	-24.5	0	53.38	-	-	74	-20.62	207	169	V
3	*** 2.39	33.54	RMS	32	-24.5	.11	41.15	54	-12.85	-	-	207	169	V
4	*** 2.39	33.79	RMS	32	-24.5	.11	41.4	54	-12.6	-	-	207	169	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE (HIGH CHANNEL, CH 11)

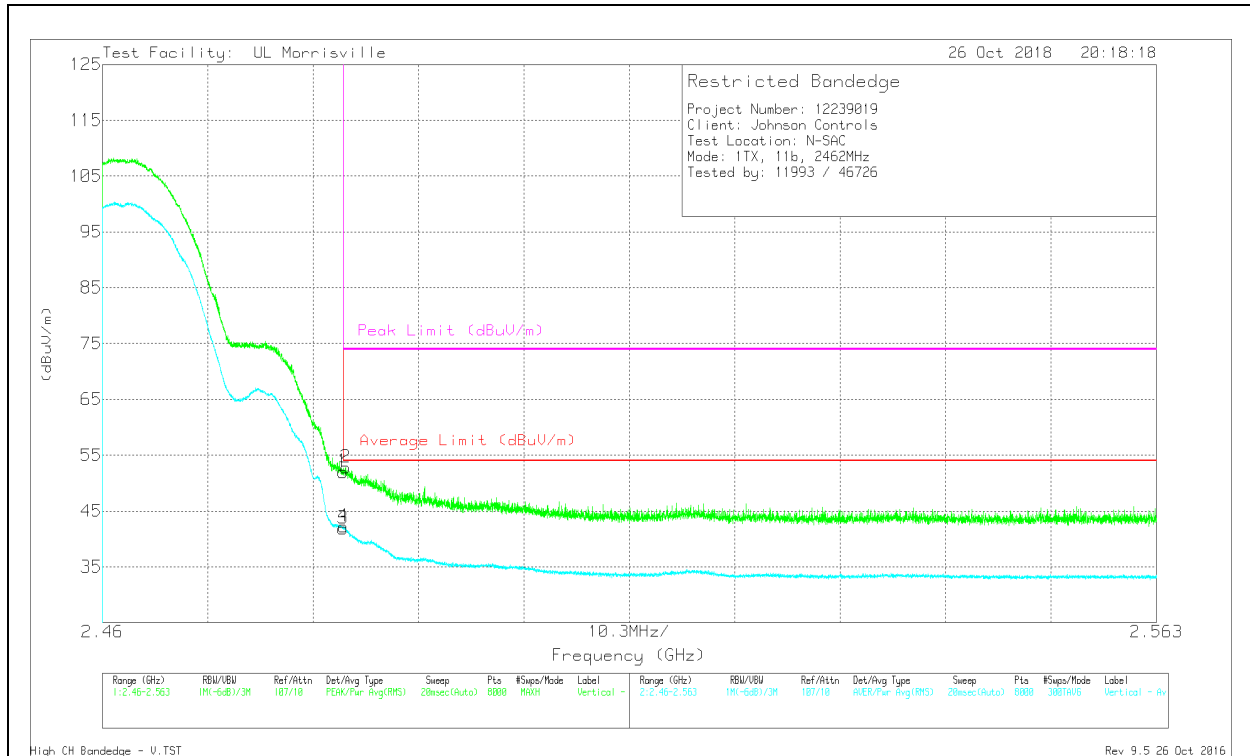
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	43.22	Pk	32.4	-24.4	0	51.22	-	-	74	-22.78	249	292	H
2	* ** 2.484	43.38	Pk	32.4	-24.4	0	51.38	-	-	74	-22.62	249	292	H
3	* ** 2.484	32.41	RMS	32.4	-24.4	.11	40.52	54	-13.48	-	-	249	292	H
4	* ** 2.484	32.69	RMS	32.4	-24.4	.11	40.8	54	-13.2	-	-	249	292	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

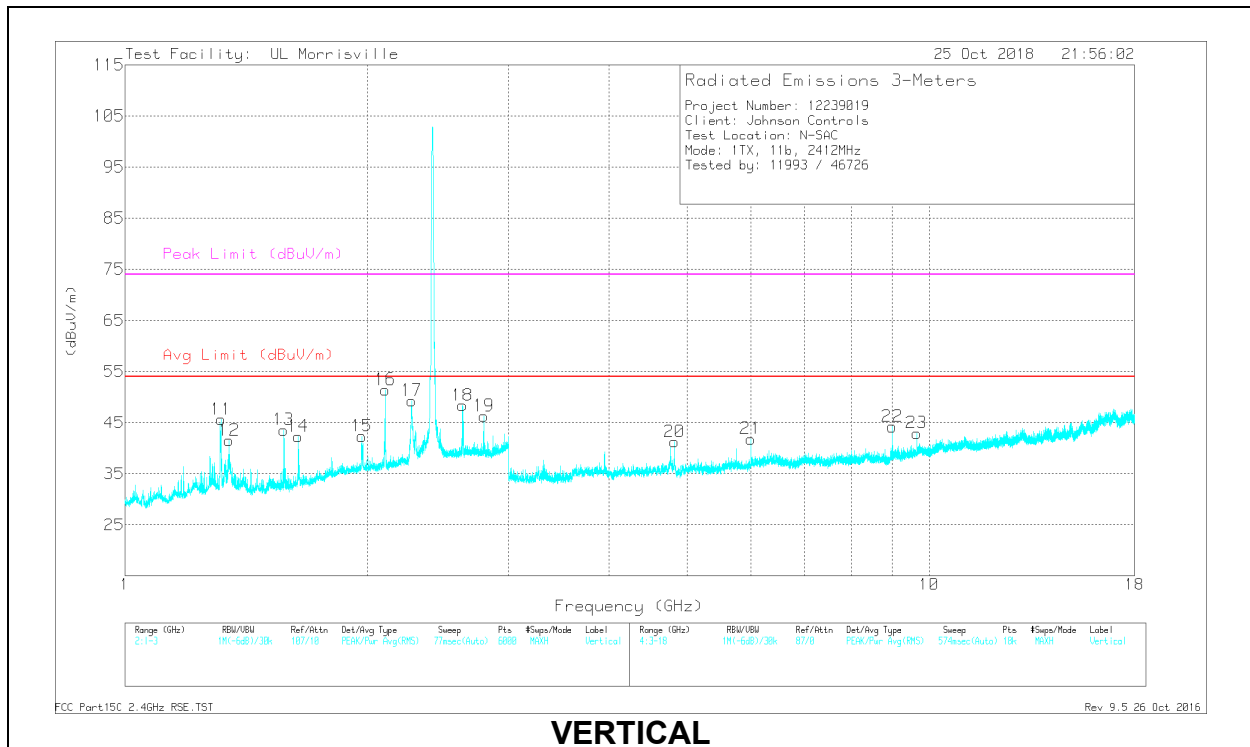
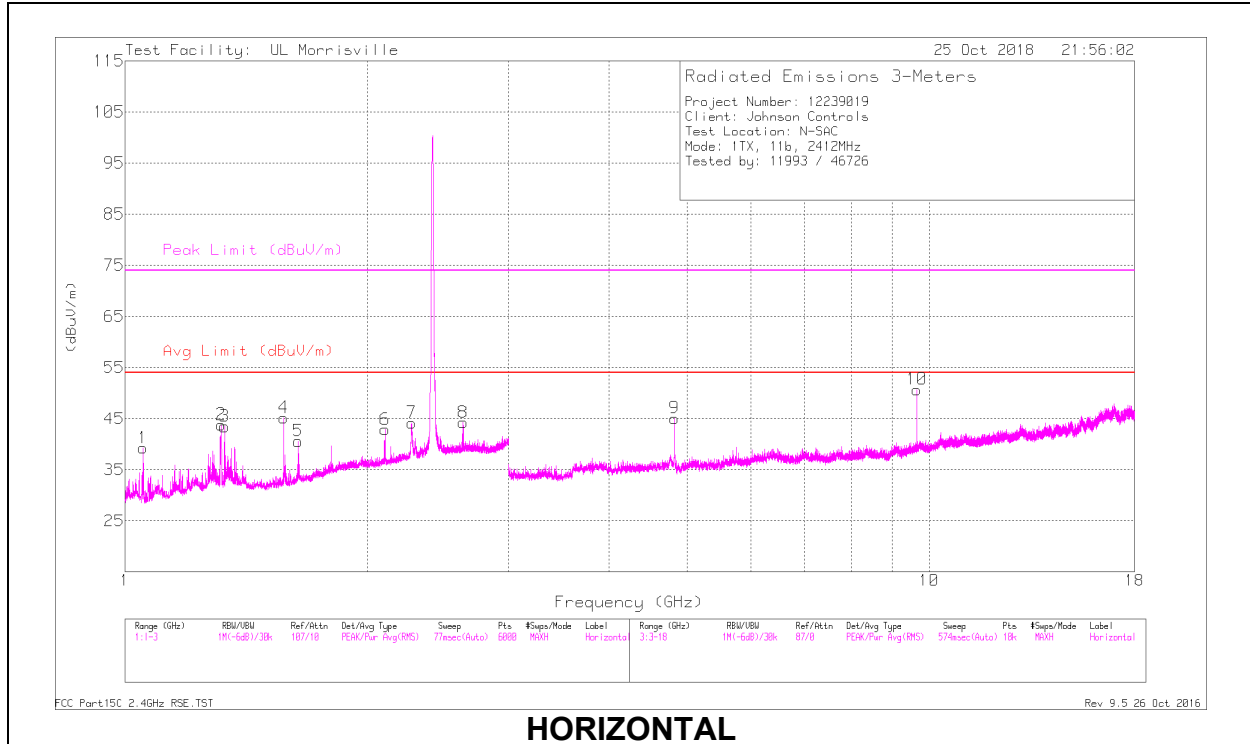


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	44.02	Pk	32.4	-24.4	0	52.02	-	-	74	-21.98	152	230	V
2	* ** 2.484	44.76	Pk	32.4	-24.4	0	52.76	-	-	74	-21.24	152	230	V
3	* ** 2.484	33.73	RMS	32.4	-24.4	.11	41.84	54	-12.16	-	-	152	230	V
4	* ** 2.484	34.12	RMS	32.4	-24.4	.11	42.23	54	-11.77	-	-	152	230	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.053	43.16	PK2	27.1	-27.2	0	43.06	-	-	74	-30.94	215	168	H
	*** 1.053	24.83	MAv1	27.1	-27.2	.11	24.84	54	-29.16	-	-	215	168	H
2	*** 1.317	51.21	PK2	29	-25.6	0	54.61	-	-	74	-19.39	170	268	H
	*** 1.319	24.51	MAv1	28.9	-25.6	.11	27.92	54	-26.08	-	-	170	268	H
3	*** 1.33	43.41	PK2	29	-25.7	0	46.71	-	-	74	-27.29	175	231	H
	*** 1.332	25.73	MAv1	29	-25.7	.11	29.14	54	-24.86	-	-	175	231	H
4	*** 1.577	46.64	PK2	27.9	-24.7	0	49.84	-	-	74	-24.16	102	203	H
	*** 1.577	24.71	MAv1	27.9	-24.7	.11	28.02	54	-25.98	-	-	102	203	H
7	*** 2.273	45.75	PK2	31.7	-24.5	0	52.95	-	-	74	-21.05	181	128	H
	*** 2.273	30.71	MAv1	31.7	-24.5	.11	38.02	54	-15.98	-	-	181	128	H
11	*** 1.316	42.95	PK2	29	-25.6	0	46.35	-	-	74	-27.65	217	176	V
	*** 1.315	24.54	MAv1	29	-25.6	.11	28.05	54	-25.95	-	-	217	176	V
12	*** 1.347	36.69	PK2	29.3	-25.5	0	40.49	-	-	74	-33.51	159	348	V
	*** 1.347	24.67	MAv1	29.3	-25.5	.11	28.58	54	-25.42	-	-	159	348	V
13	*** 1.577	41.74	PK2	27.9	-24.7	0	44.94	-	-	74	-29.06	342	326	V
	*** 1.576	24.25	MAv1	27.9	-24.7	.11	27.56	54	-26.44	-	-	342	326	V
17	*** 2.272	52.44	PK2	31.7	-24.5	0	59.64	-	-	74	-14.36	206	164	V
	*** 2.273	37.15	MAv1	31.7	-24.5	.11	44.46	54	-9.54	-	-	206	164	V
19	*** 2.796	41.03	PK2	32.2	-23.8	0	49.43	-	-	74	-24.57	172	215	V
	*** 2.795	25.6	MAv1	32.2	-23.8	.11	34.11	54	-19.89	-	-	172	215	V
9	*** 4.824	46.98	PK2	34.1	-31.7	0	49.38	-	-	74	-24.62	196	109	H
	*** 4.824	36.89	MAv1	34.1	-31.7	.11	39.4	54	-14.6	-	-	196	109	H
20	*** 4.824	45.92	PK2	34.1	-31.7	0	48.32	-	-	74	-25.68	221	185	V
	*** 4.824	35.66	MAv1	34.1	-31.7	.11	38.17	54	-15.83	-	-	221	185	V
5	1.642	36.7	Pk	28.4	-24.5	0	40.6	-	-	-	-	0-360	102	H
14	1.643	38.42	Pk	28.4	-24.5	0	42.32	-	-	-	-	0-360	199	V
15	1.97	35.65	Pk	31.2	-24.5	0	42.35	-	-	-	-	0-360	199	V
6	2.106	36.41	Pk	31.1	-24.6	0	42.91	-	-	-	-	0-360	199	H
16	2.108	44.75	Pk	31.2	-24.5	0	51.45	-	-	-	-	0-360	102	V
18	2.629	40.18	Pk	32.5	-24.3	0	48.38	-	-	-	-	0-360	199	V
8	2.634	36.07	Pk	32.5	-24.3	0	44.27	-	-	-	-	0-360	199	H
21	5.999	37.14	Pk	34.9	-30.2	0	41.84	-	-	-	-	0-360	199	V
22	9	36.64	Pk	36.2	-28.6	0	44.24	-	-	-	-	0-360	199	V
23	9.647	34.07	Pk	36.9	-28	0	42.97	-	-	-	-	0-360	102	V
10	9.648	41.81	Pk	36.9	-28	0	50.71	-	-	-	-	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

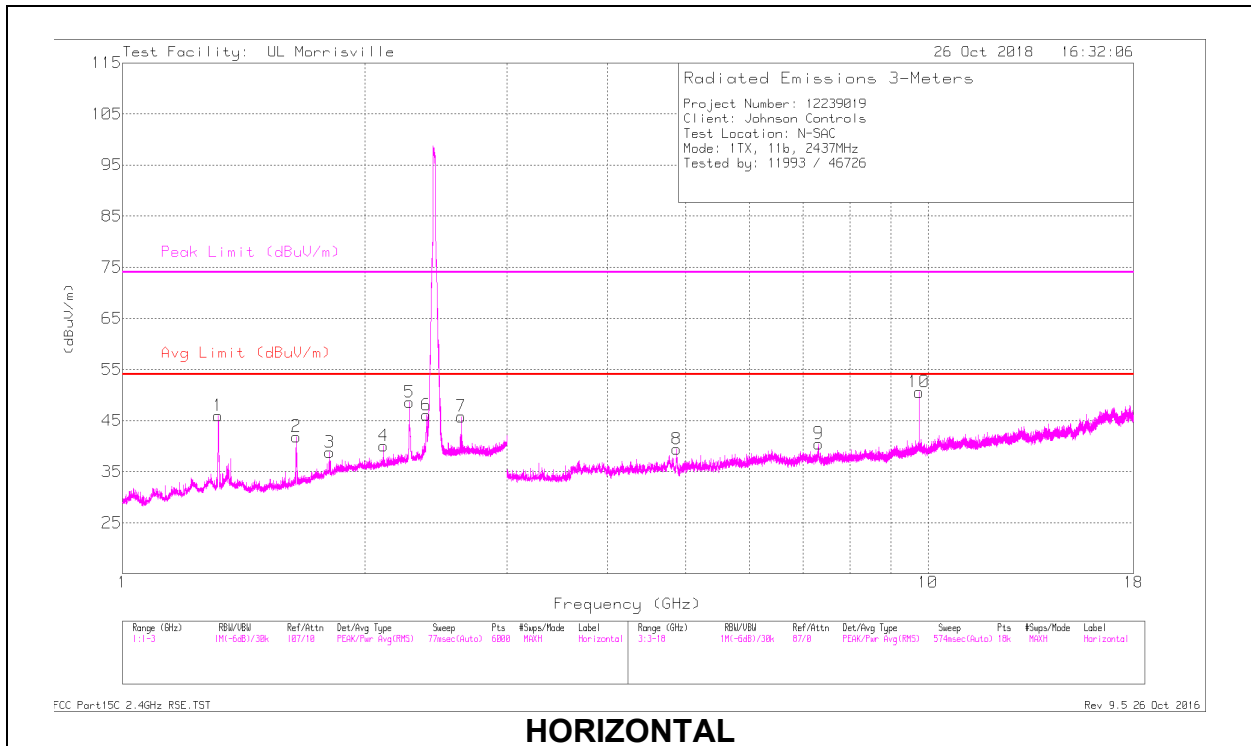
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

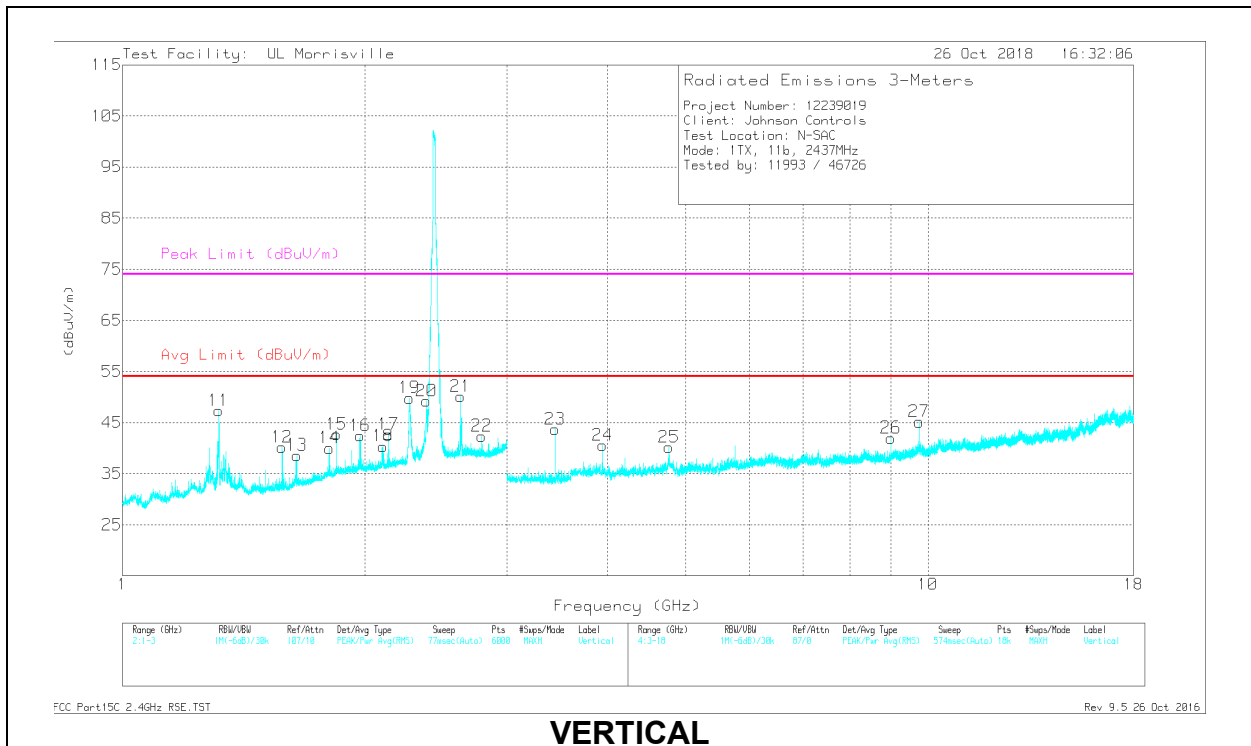
MAv1 - KDB558074 Option 1 Maximum RMS Average

Pk - Peak detector

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



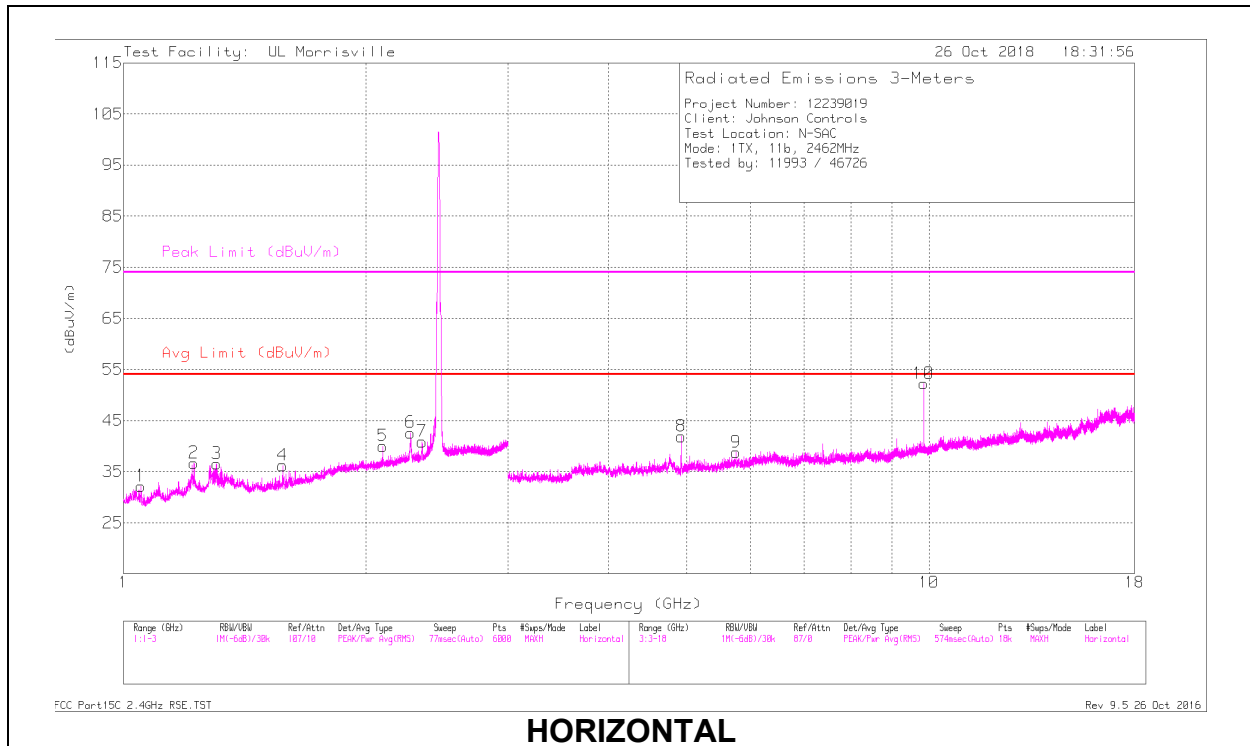
VERTICAL

RADIATED EMISSIONS

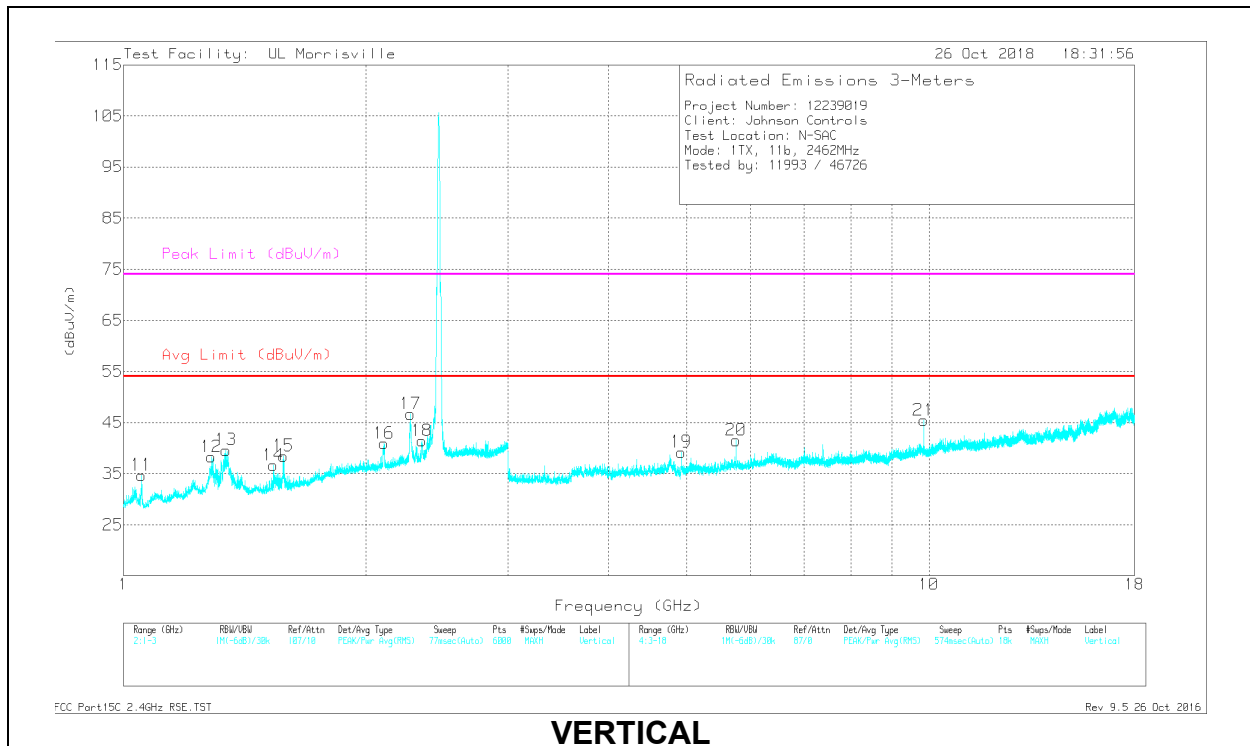
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.314	47.1	PK2	29	-25.7	0	50.4	-	-	74	-23.6	210	391	H
	*** 1.313	26.32	MAv1	29	-25.7	.11	29.73	54	-24.27	-	-	210	391	H
5	*** 2.272	49.56	PK2	31.7	-24.5	0	56.76	-	-	74	-17.24	296	132	H
	*** 2.271	31.56	MAv1	31.7	-24.5	.11	38.87	54	-15.13	-	-	296	132	H
6	*** 2.384	44.57	PK2	32	-24.5	0	52.07	-	-	74	-21.93	139	200	H
	*** 2.385	33.54	MAv1	32	-24.5	.11	41.15	54	-12.85	-	-	139	200	H
8	*** 4.873	44.18	PK2	34.1	-31.6	0	46.68	-	-	74	-27.32	206	202	H
	*** 4.874	32.2	MAv1	34.1	-31.6	.11	34.81	54	-19.19	-	-	206	202	H
9	*** 7.31	40.53	PK2	35.6	-29.2	0	46.93	-	-	74	-27.07	199	185	H
	*** 7.311	28.8	MAv1	35.6	-29.2	.11	35.31	54	-18.69	-	-	199	185	H
2	1.643	37.97	Pk	28.4	-24.5	0	41.87	-	-	-	-	0-360	198	H
3	1.808	33.01	Pk	30.3	-24.5	0	38.81	-	-	-	-	0-360	102	H
4	2.11	33.37	Pk	31.2	-24.5	0	40.07	-	-	-	-	0-360	198	H
7	2.632	37.58	Pk	32.5	-24.3	0	45.78	-	-	-	-	0-360	198	H
10	9.747	40.76	Pk	37	-27.2	0	50.56	-	-	-	-	0-360	102	H
11	*** 1.319	42.17	PK2	28.9	-25.6	0	45.47	-	-	74	-28.53	158	181	V
	*** 1.319	24.27	MAv1	28.9	-25.6	.11	27.68	54	-26.32	-	-	158	181	V
12	*** 1.575	43.86	PK2	27.9	-24.7	0	47.06	-	-	74	-26.94	202	240	V
	*** 1.576	24.46	MAv1	27.9	-24.7	.11	27.77	54	-26.23	-	-	202	240	V
13	* 1.646	36.69	PK2	28.4	-24.5	0	40.59	-	-	74	-33.41	250	149	V
	1.647	24.02	MAv1	28.5	-24.5	.11	28.13	-	-	-	-	250	149	V
19	*** 2.271	53.41	PK2	31.7	-24.5	0	60.61	-	-	74	-13.39	212	159	V
	*** 2.271	36.65	MAv1	31.7	-24.5	.11	43.96	54	-10.04	-	-	212	159	V
20	*** 2.384	51.77	PK2	32	-24.5	0	59.27	-	-	74	-14.73	200	135	V
	*** 2.385	40.69	MAv1	32	-24.5	.11	48.3	54	-5.7	-	-	200	135	V
22	*** 2.791	37.25	PK2	32.1	-23.9	0	45.45	-	-	74	-28.55	4	201	V
	*** 2.792	25.15	MAv1	32.1	-23.9	.11	33.46	54	-20.54	-	-	4	201	V
24	*** 3.942	41.05	PK2	33.6	-32	0	42.65	-	-	74	-31.35	100	342	V
	*** 3.946	29.59	MAv1	33.6	-32	.11	31.3	54	-22.7	-	-	100	342	V
25	*** 4.771	42.28	PK2	34.1	-32	0	44.38	-	-	74	-29.62	360	312	V
	*** 4.771	30.48	MAv1	34.1	-32	.11	32.69	54	-21.31	-	-	360	312	V
14	1.806	34.2	Pk	30.3	-24.5	0	40	-	-	-	-	0-360	102	V
15	1.845	36.47	Pk	30.7	-24.5	0	42.67	-	-	-	-	0-360	102	V
16	1.972	35.75	Pk	31.2	-24.5	0	42.45	-	-	-	-	0-360	199	V
18	2.106	33.87	Pk	31.1	-24.6	0	40.37	-	-	-	-	0-360	199	V
17	2.14	36.01	Pk	31.2	-24.5	0	42.71	-	-	-	-	0-360	199	V
21	2.628	41.92	Pk	32.5	-24.3	0	50.12	-	-	-	-	0-360	199	V
23	3.445	43.93	Pk	32.8	-33	0	43.73	-	-	-	-	0-360	199	V
26	9	34.38	Pk	36.2	-28.6	0	41.98	-	-	-	-	0-360	102	V
27	9.748	35.36	Pk	37	-27.2	0	45.16	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average
 Pk - Peak detector

HIGH CHANNEL, CH 11 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.051	44.25	PK2	27.1	-27.2	0	44.15	-	-	74	-29.85	181	322	H
	*** 1.051	26.06	MAv1	27.1	-27.2	.11	26.07	54	-27.93	-	-	181	322	H
2	*** 1.224	39.72	PK2	28.9	-26.1	0	42.52	-	-	74	-31.48	162	237	H
	*** 1.221	25.43	MAv1	28.9	-26.1	.11	28.34	54	-25.66	-	-	162	237	H
3	*** 1.307	40.47	PK2	29	-25.7	0	43.77	-	-	74	-30.23	123	193	H
	*** 1.306	24.05	MAv1	29	-25.7	.11	27.46	54	-26.54	-	-	123	193	H
4	*** 1.577	45.53	PK2	27.9	-24.7	0	48.73	-	-	74	-25.27	87	214	H
	*** 1.579	24.29	MAv1	27.8	-24.7	.11	27.5	54	-26.5	-	-	87	214	H
6	*** 2.272	45.32	PK2	31.7	-24.5	0	52.52	-	-	74	-21.48	300	104	H
	*** 2.271	28.72	MAv1	31.7	-24.5	.11	36.03	54	-17.97	-	-	300	104	H
7	*** 2.349	40.19	PK2	31.7	-24.5	0	47.39	-	-	74	-26.61	297	104	H
	*** 2.347	28.3	MAv1	31.7	-24.5	.11	35.61	54	-18.39	-	-	297	104	H
8	*** 4.924	44.72	PK2	34.1	-32	0	46.82	-	-	74	-27.18	199	134	H
	*** 4.924	35.27	MAv1	34.1	-32	.11	37.48	54	-16.52	-	-	199	134	H
5	2.1	33.4	Pk	31.1	-24.5	0	40	-	-	-	-	0-360	199	H
9	5.76	35.63	Pk	34.7	-31.5	0	38.83	-	-	-	-	0-360	199	H
10	9.848	42.84	Pk	37	-27.6	0	52.24	-	-	-	-	0-360	199	H
11	*** 1.054	41.67	PK2	27.1	-27.2	0	41.57	-	-	74	-32.43	228	276	V
	*** 1.051	25.02	MAv1	27.1	-27.2	.11	25.03	54	-28.97	-	-	228	276	V
12	* 1.284	41.17	PK2	29.3	-25.8	0	44.67	-	-	74	-29.33	152	168	V
	* 1.284	25.3	MAv1	29.3	-25.8	.11	28.91	54	-25.09	-	-	152	168	V
13	*** 1.34	45.15	PK2	29.3	-25.6	0	48.85	-	-	74	-25.15	143	155	V
	*** 1.34	25.71	MAv1	29.3	-25.6	.11	29.52	54	-24.48	-	-	143	155	V
14	*** 1.536	42.33	PK2	28	-24.9	0	45.43	-	-	74	-28.57	154	231	V
	*** 1.536	25.1	MAv1	28	-24.9	.11	28.31	54	-25.69	-	-	154	231	V
15	*** 1.58	48.82	PK2	27.8	-24.7	0	51.92	-	-	74	-22.08	174	241	V
	*** 1.578	25.23	MAv1	27.8	-24.7	.11	28.44	54	-25.56	-	-	174	241	V
17	*** 2.273	51.86	PK2	31.7	-24.5	0	59.06	-	-	74	-14.94	198	164	V
	*** 2.271	34.15	MAv1	31.7	-24.5	.11	41.46	54	-12.54	-	-	198	164	V
18	*** 2.346	42.98	PK2	31.7	-24.5	0	50.18	-	-	74	-23.82	201	146	V
	*** 2.348	31.58	MAv1	31.7	-24.5	.11	38.89	54	-15.11	-	-	201	146	V
19	*** 4.923	43.63	PK2	34.1	-32	0	45.73	-	-	74	-28.27	191	104	V
	*** 4.924	31.27	MAv1	34.1	-32	.11	33.48	54	-20.52	-	-	191	104	V
16	2.106	34.4	Pk	31.1	-24.6	0	40.9	-	-	-	-	0-360	102	V
20	5.76	38.32	Pk	34.7	-31.5	0	41.52	-	-	-	-	0-360	199	V
21	9.848	36.05	Pk	37	-27.6	0	45.45	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

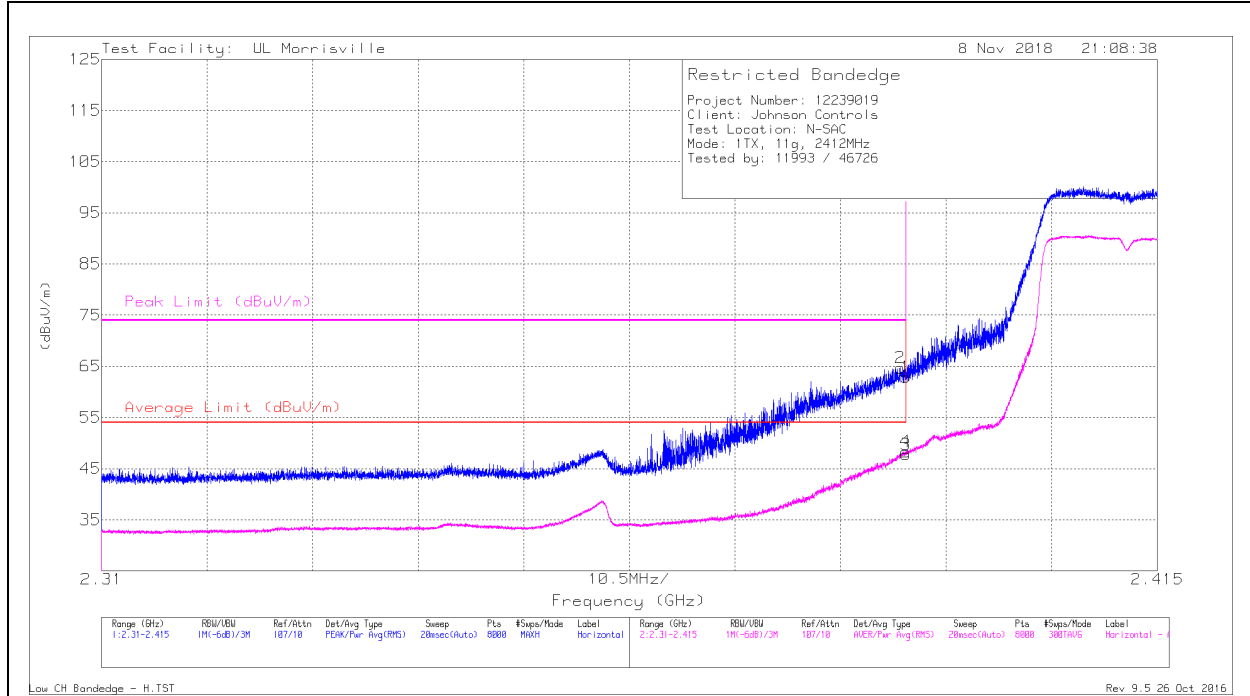
MAv1 - KDB558074 Option 1 Maximum RMS Average

Pk - Peak detector

10.1.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

BANDEDGE (LOW CHANNEL, CH 1)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	55.37	Pk	32	-24.5	0	62.87	-	-	74	-11.13	177	162	H
2	*** 2.389	57.18	Pk	32	-24.5	0	64.68	-	-	74	-9.32	177	162	H
3	*** 2.39	40.12	RMS	32	-24.5	.11	47.73	54	-6.27	-	-	177	162	H
4	*** 2.39	40.7	RMS	32	-24.5	.11	48.31	54	-5.69	-	-	177	162	H

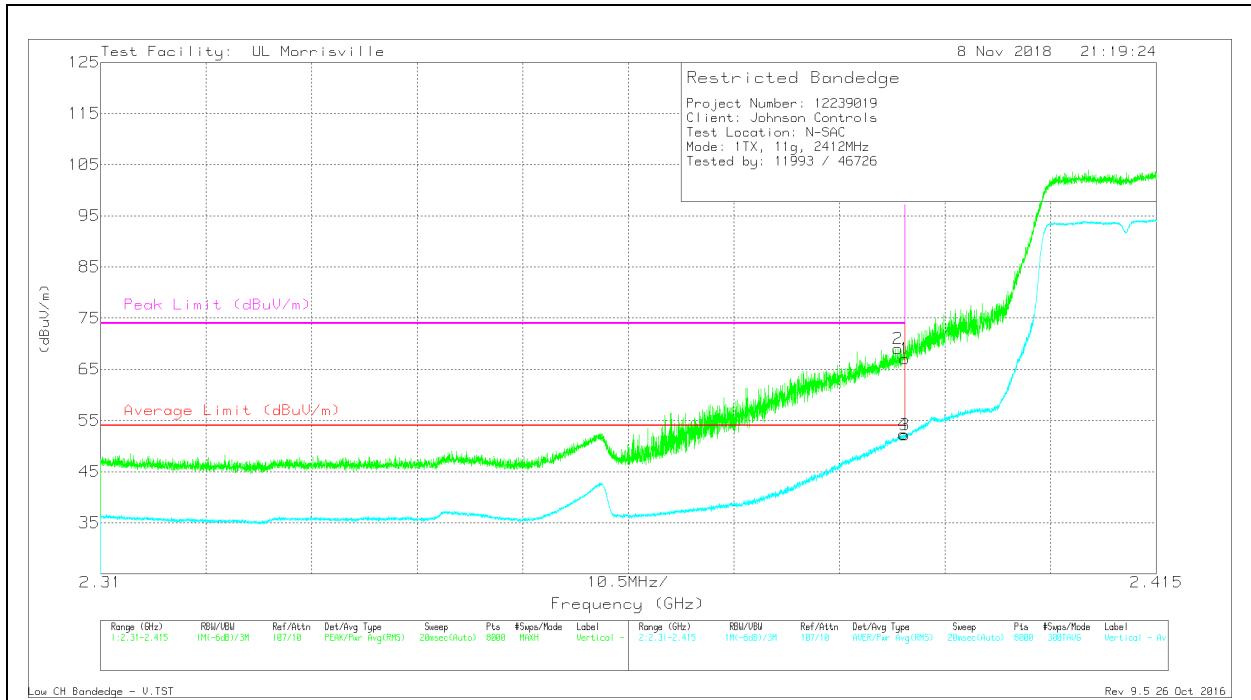
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

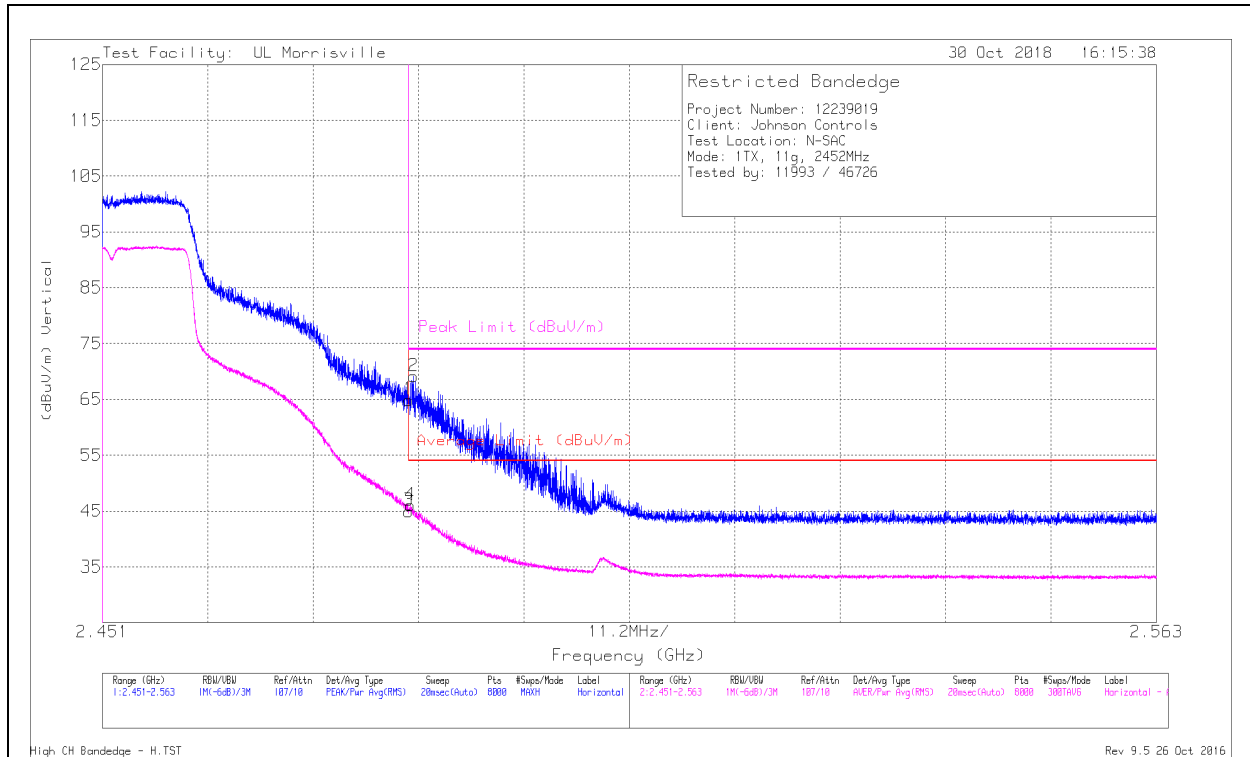


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	59.54	Pk	32	-24.5	0	67.04	-	-	74	-6.96	228	169	V
2	*** 2.389	61.5	Pk	32	-24.5	0	69	-	-	74	-5	228	169	V
3	*** 2.39	44.55	RMS	32	-24.5	.11	52.16	54	-1.84	-	-	228	169	V
4	*** 2.39	44.7	RMS	32	-24.5	.11	52.31	54	-1.69	-	-	228	169	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 9)

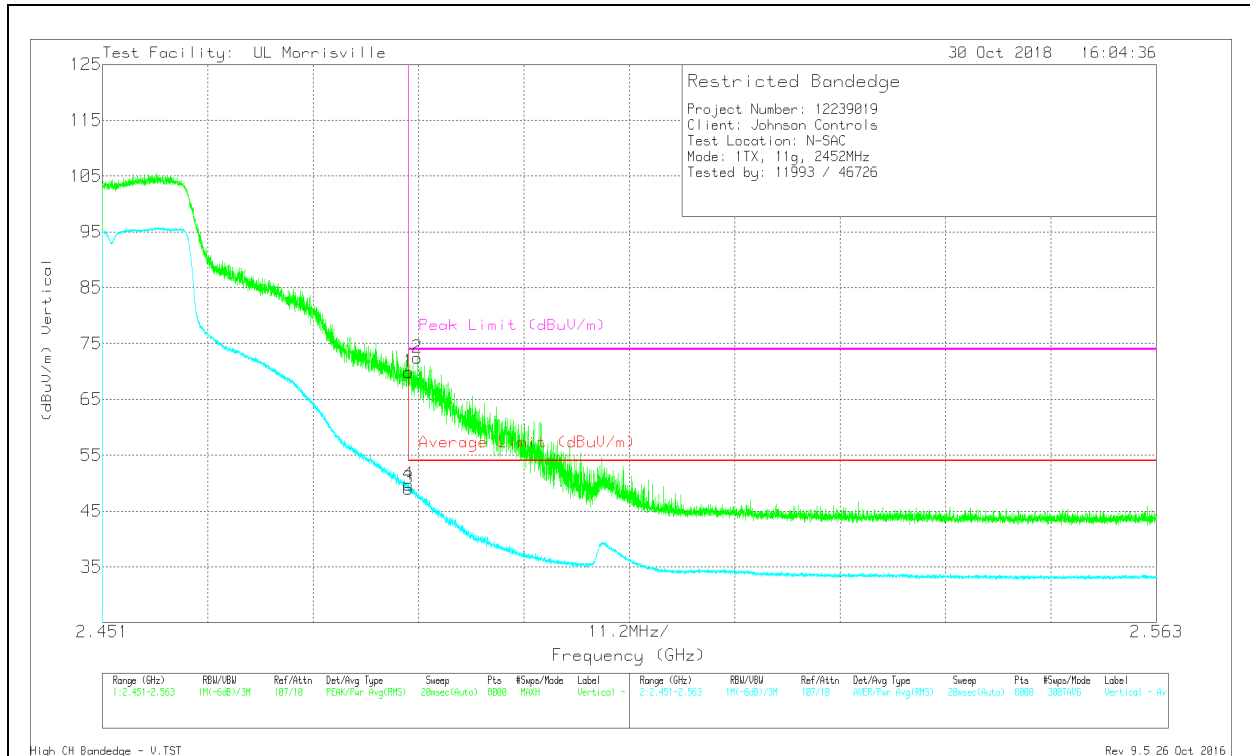
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	56.91	Pk	32.4	-24.4	0	64.91	-	-	74	-9.09	313	246	H
2	* ** 2.484	61.13	Pk	32.4	-24.4	0	69.13	-	-	74	-4.87	313	246	H
3	* ** 2.484	36.89	RMS	32.4	-24.4	.11	45	54	-9	-	-	313	246	H
4	* ** 2.484	37.89	RMS	32.4	-24.4	.11	46	54	-8	-	-	313	246	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

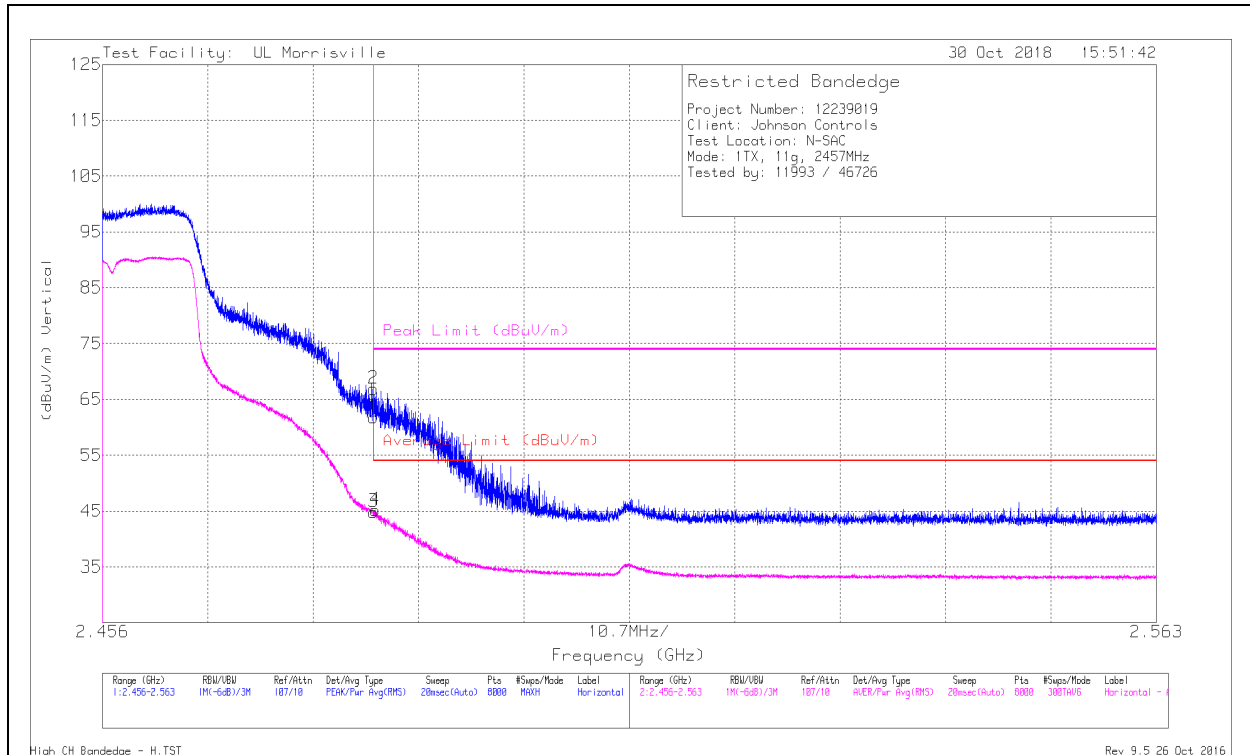


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.484	61.87	Pk	32.4	-24.4	69.87	-	-	74	-4.13	132	201	V
2	*** 2.484	64.48	Pk	32.4	-24.4	72.48	-	-	74	-1.52	132	201	V
3	*** 2.484	40.99	RMS	32.4	-24.4	48.99	54	-5.01	-	-	132	201	V
4	*** 2.484	41.74	RMS	32.4	-24.4	49.74	54	-4.26	-	-	132	201	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 10)

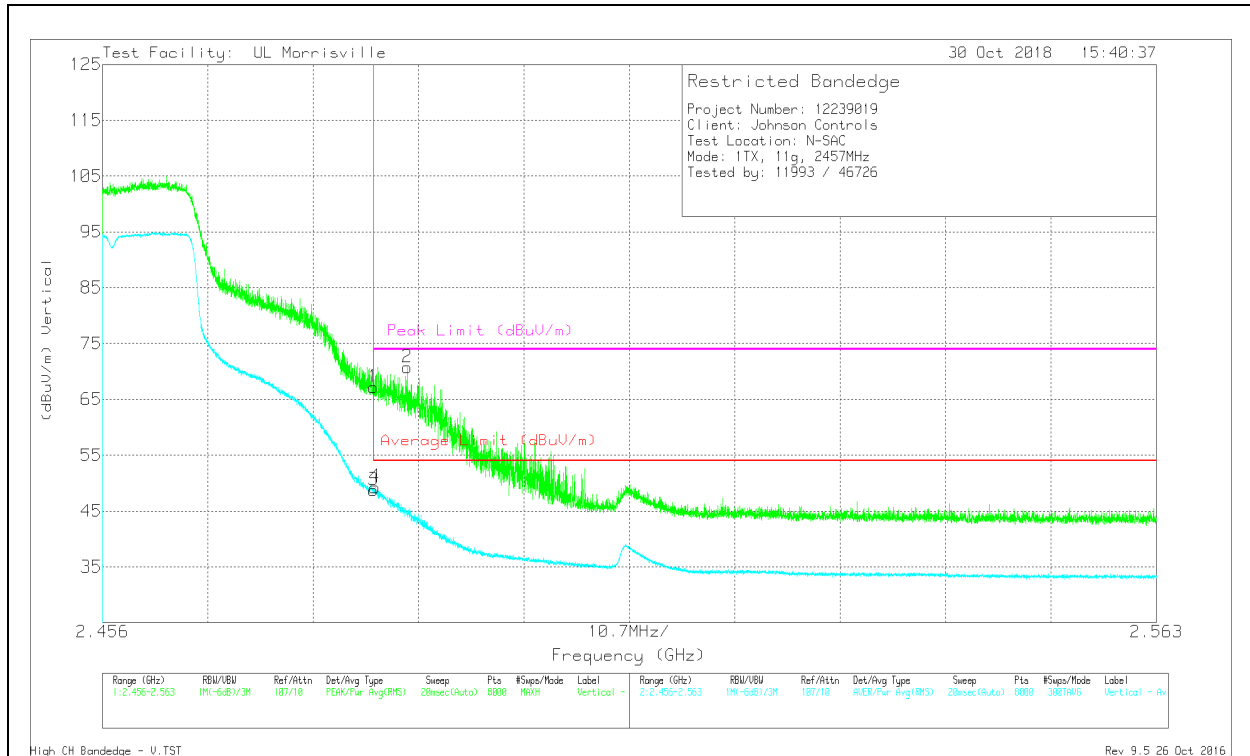
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	53.82	Pk	32.4	-24.4	0	61.82	-	-	74	-12.18	201	176	H
2	* ** 2.484	58.89	Pk	32.4	-24.4	0	66.89	-	-	74	-7.11	201	176	H
3	* ** 2.484	36.75	RMS	32.4	-24.4	.11	44.86	54	-9.14	-	-	201	176	H
4	* ** 2.484	37.09	RMS	32.4	-24.4	.11	45.2	54	-8.8	-	-	201	176	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

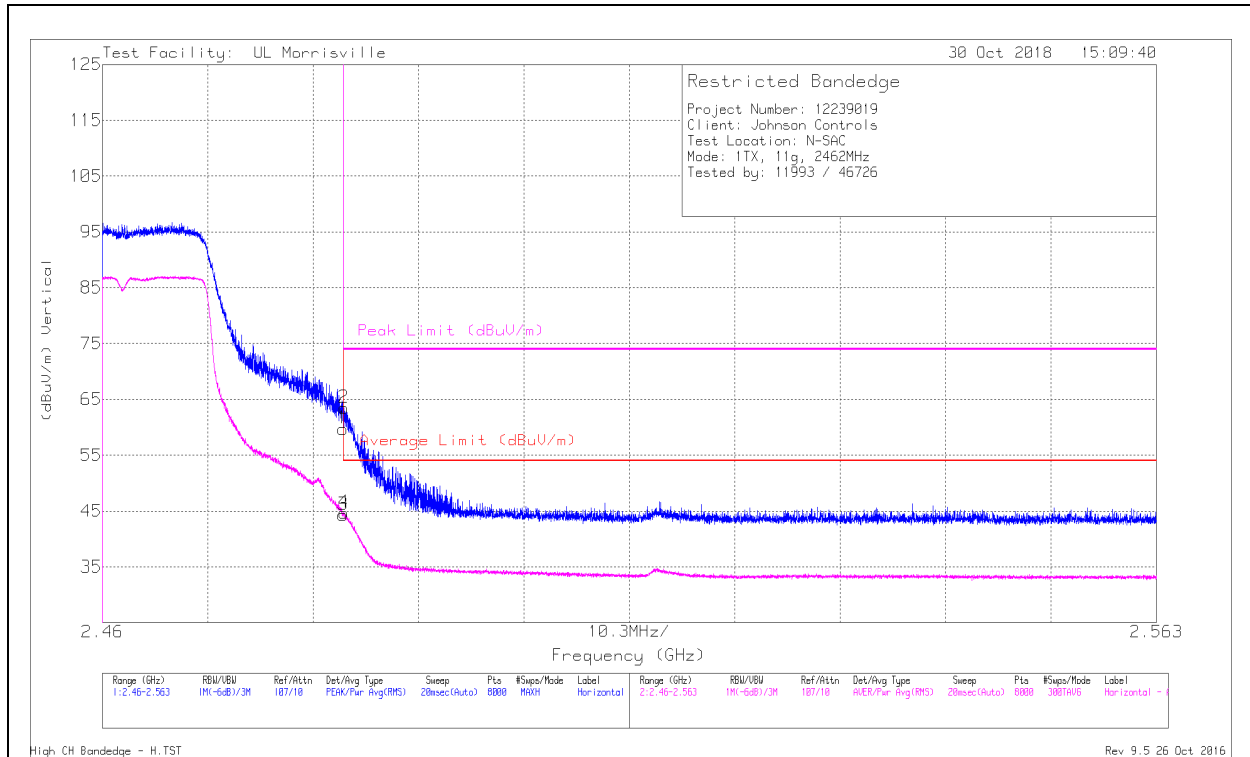


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	59.2	Pk	32.4	-24.4	0	67.2	-	-	74	-6.8	133	176	V
2	* ** 2.487	62.72	Pk	32.4	-24.4	0	70.72	-	-	74	-3.28	133	176	V
3	* ** 2.484	40.64	RMS	32.4	-24.4	.11	48.75	54	-5.25	-	-	133	176	V
4	* ** 2.484	41.16	RMS	32.4	-24.4	.11	49.27	54	-4.73	-	-	133	176	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 11)

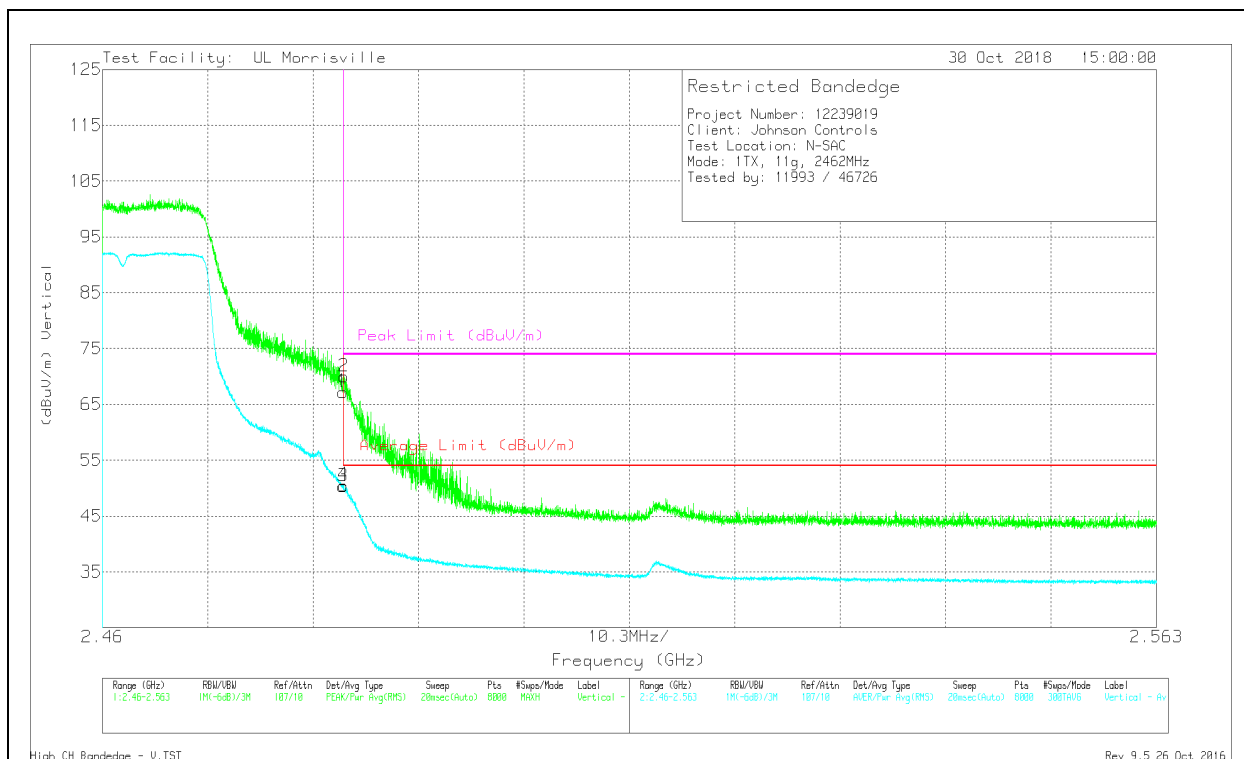
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	51.75	Pk	32.4	-24.4	0	59.75	-	-	74	-14.25	318	151	H
2	* ** 2.484	55.5	Pk	32.4	-24.4	0	63.5	-	-	74	-10.5	318	151	H
3	* ** 2.484	36.21	RMS	32.4	-24.4	.11	44.32	54	-9.68	-	-	318	151	H
4	* ** 2.484	36.59	RMS	32.4	-24.4	.11	44.7	54	-9.3	-	-	318	151	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

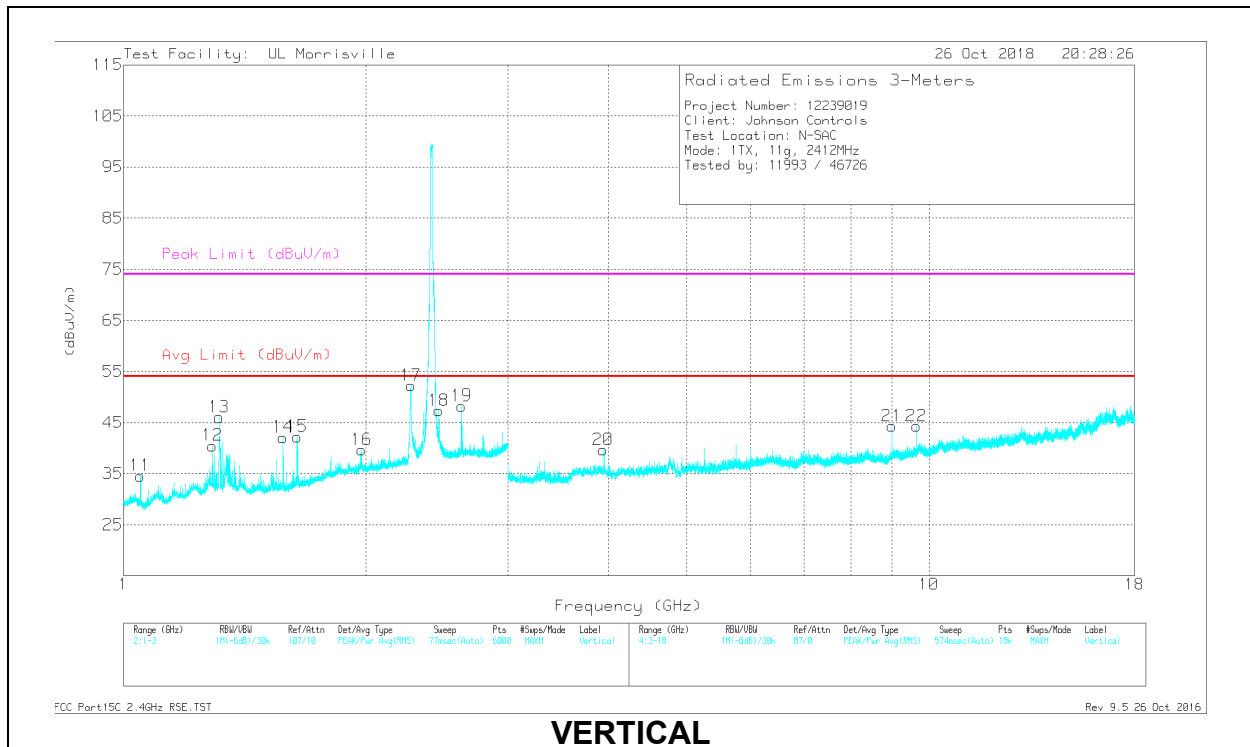
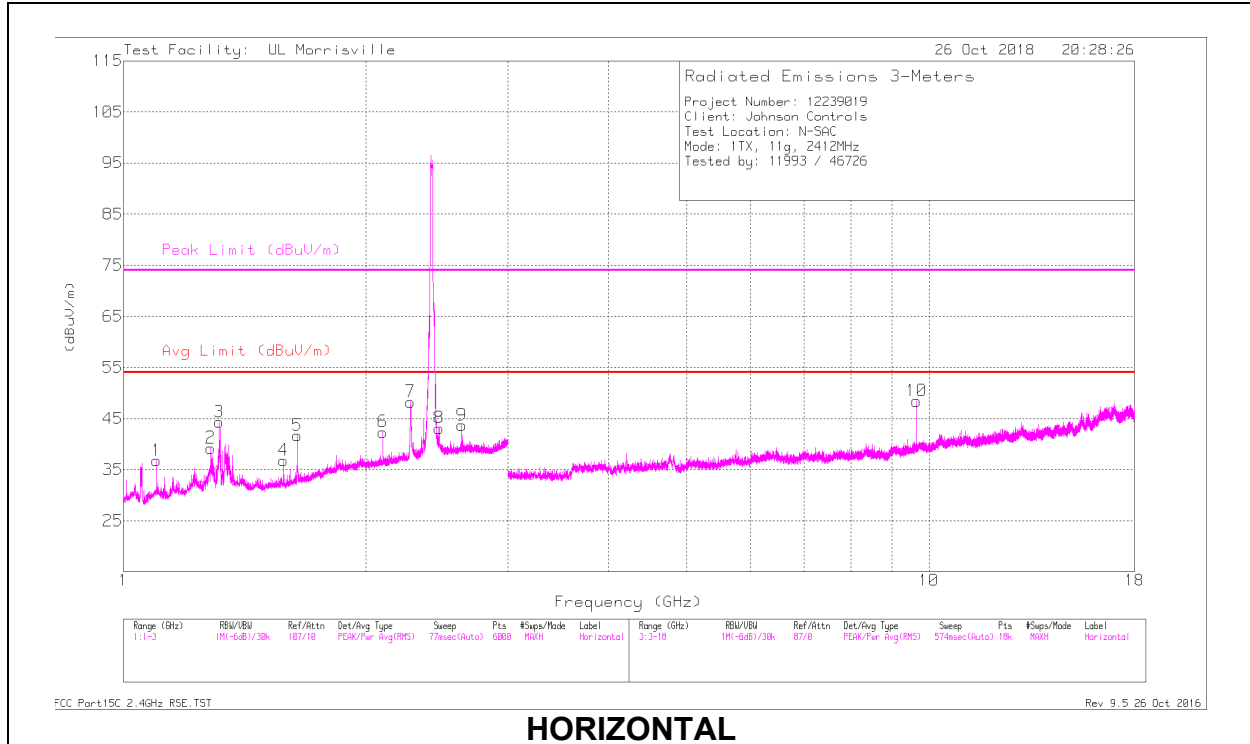


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	59.22	Pk	32.4	-24.4	0	67.22	-	-	74	-6.78	132	171	V
2	* ** 2.484	61.98	Pk	32.4	-24.4	0	69.98	-	-	74	-4.02	132	171	V
3	* ** 2.484	42.22	RMS	32.4	-24.4	.11	50.33	54	-3.67	-	-	132	171	V
4	* ** 2.484	42.39	RMS	32.4	-24.4	.11	50.5	54	-3.5	-	-	132	171	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, CH 1 RESULTS

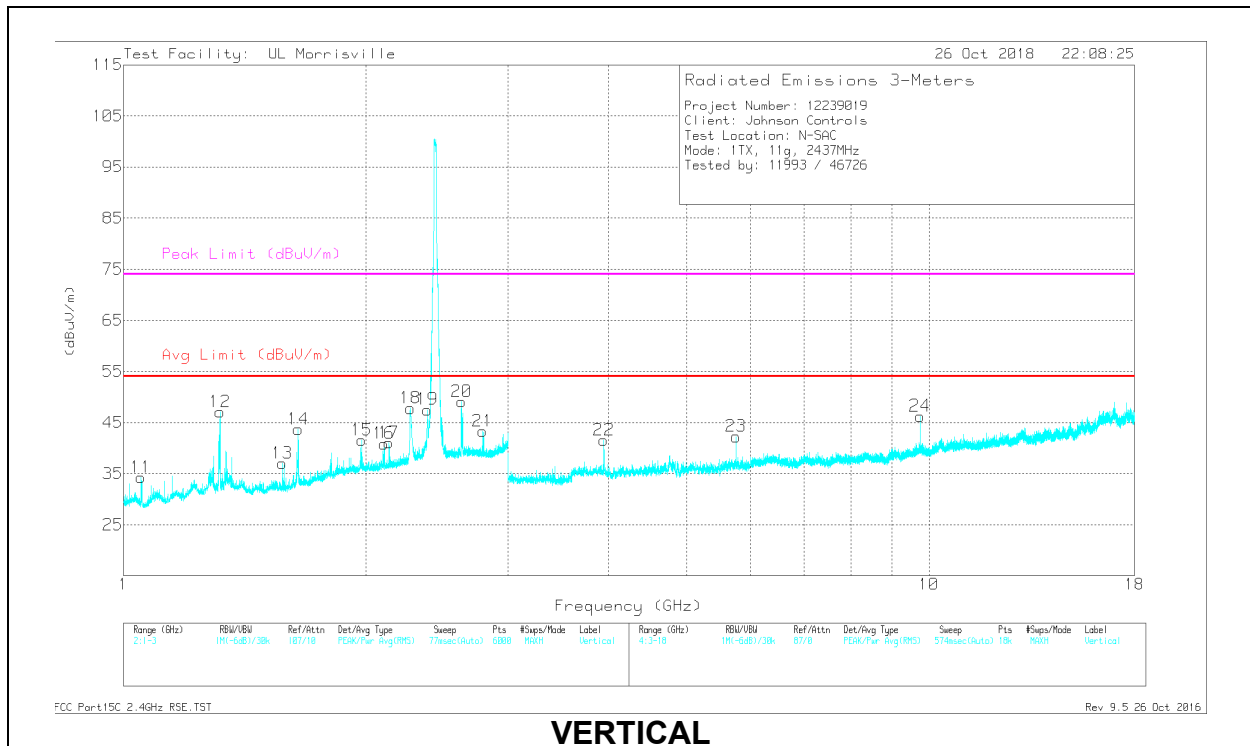
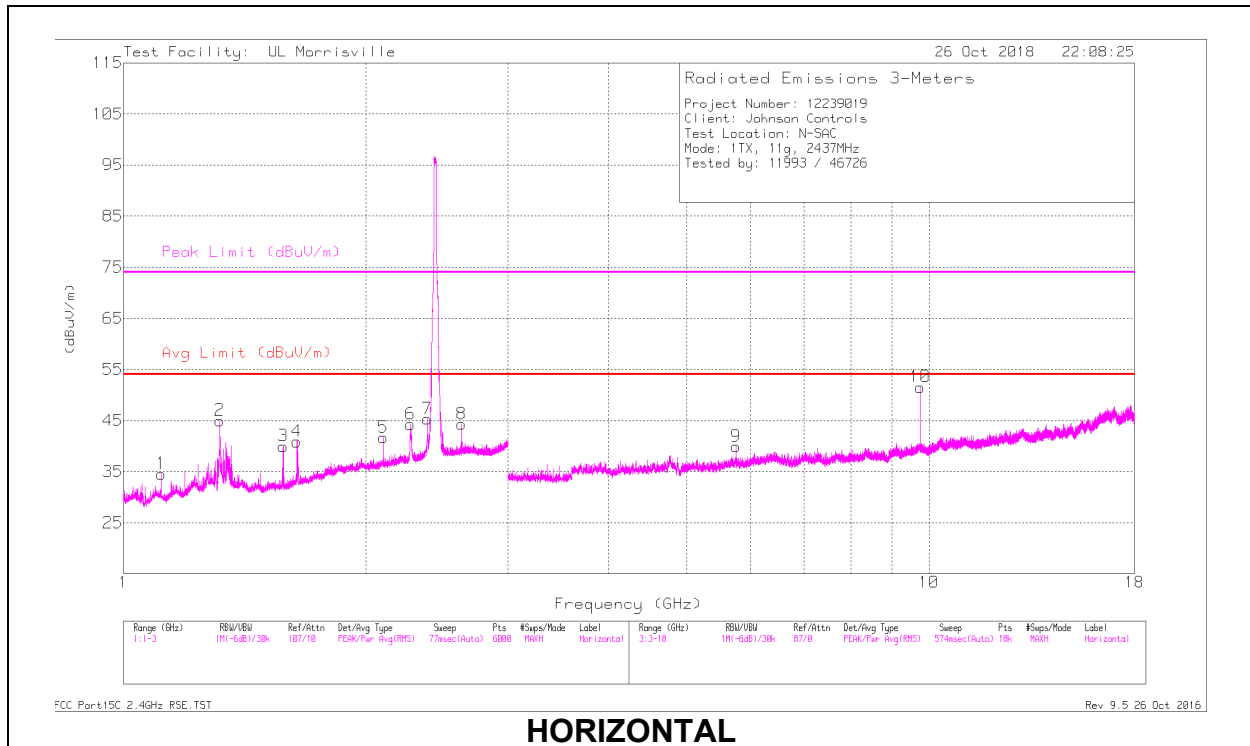


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.099	39.54	PK2	27.8	-26.9	0	40.44	-	-	74	-33.56	173	264	H
	*** 1.096	25.12	MAv1	27.7	-26.9	.11	26.03	54	-27.97	-	-	173	264	H
3	*** 1.315	42.07	PK2	29	-25.6	0	45.47	-	-	74	-28.53	166	214	H
	*** 1.314	24.03	MAv1	29	-25.7	.11	27.44	54	-26.56	-	-	166	214	H
4	*** 1.579	46.28	PK2	27.8	-24.7	0	49.38	-	-	74	-24.62	94	177	H
	*** 1.58	24.69	MAv1	27.8	-24.7	.11	27.9	54	-26.1	-	-	94	177	H
7	*** 2.272	52.41	PK2	31.7	-24.5	0	59.61	-	-	74	-14.39	195	201	H
	*** 2.273	35.78	MAv1	31.7	-24.5	.11	43.09	54	-10.91	-	-	195	201	H
2	* 1.282	40.97	PK2	29.4	-25.8	0	44.57	-	-	74	-29.43	132	338	H
	* 1.282	25.09	MAv1	29.4	-25.8	.11	28.8	54	-25.2	-	-	132	338	H
5	1.643	37.79	Pk	28.4	-24.5	0	41.69	-	-	-	-	0-360	199	H
6	2.1	35.78	Pk	31.1	-24.5	0	42.38	-	-	-	-	0-360	199	H
8	2.465	35.23	Pk	32.3	-24.4	0	43.13	-	-	-	-	0-360	102	H
9	2.631	35.53	Pk	32.5	-24.3	0	43.73	-	-	-	-	0-360	199	H
10	9.648	39.52	Pk	36.9	-28	0	48.42	-	-	-	-	0-360	199	H
11	*** 1.05	43.35	PK2	27.1	-27.2	0	43.25	-	-	74	-30.75	225	205	V
	*** 1.051	25.46	MAv1	27.1	-27.2	.11	25.47	54	-28.53	-	-	225	205	V
12	* 1.289	42.37	PK2	29.3	-25.8	0	45.87	-	-	74	-28.13	218	249	V
	* 1.288	25.22	MAv1	29.3	-25.8	.11	28.83	54	-25.17	-	-	218	249	V
13	*** 1.314	41.72	PK2	29	-25.7	0	45.02	-	-	74	-28.98	227	148	V
	*** 1.311	24.31	MAv1	29	-25.7	.11	27.72	54	-26.28	-	-	227	148	V
14	*** 1.579	46.77	PK2	27.8	-24.7	0	49.87	-	-	74	-24.13	177	220	V
	*** 1.58	24.9	MAv1	27.8	-24.7	.11	28.11	54	-25.89	-	-	177	220	V
17	*** 2.272	54.7	PK2	31.7	-24.5	0	61.9	-	-	74	-12.1	213	163	V
	*** 2.273	40.24	MAv1	31.7	-24.5	.11	47.55	54	-6.45	-	-	213	163	V
20	*** 3.942	40.93	PK2	33.6	-32	0	42.53	-	-	74	-31.47	60	218	V
	*** 3.943	29.55	MAv1	33.6	-32	.11	31.26	54	-22.74	-	-	60	218	V
15	1.643	38.33	Pk	28.4	-24.5	0	42.23	-	-	-	-	0-360	199	V
16	1.977	33.06	Pk	31.2	-24.6	0	39.66	-	-	-	-	0-360	102	V
18	2.464	39.45	Pk	32.3	-24.4	0	47.35	-	-	-	-	0-360	199	V
19	2.629	40.06	Pk	32.5	-24.3	0	48.26	-	-	-	-	0-360	199	V
21	9	36.75	Pk	36.2	-28.6	0	44.35	-	-	-	-	0-360	199	V
22	9.648	35.44	Pk	36.9	-28	0	44.34	-	-	-	-	0-360	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average
 Pk - Peak detector

MID CHANNEL, CH 6 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.116	38.97	PK2	27.9	-26.7	0	40.17	-	-	74	-33.83	179	108	H
	*** 1.112	24.42	MAv1	27.9	-26.8	.11	25.63	54	-28.37	-	-	179	108	H
2	*** 1.317	50.54	PK2	29	-25.6	0	53.94	-	-	74	-20.06	172	172	H
	*** 1.316	26.87	MAv1	29	-25.6	.11	30.38	54	-23.62	-	-	172	172	H
3	*** 1.578	47.9	PK2	27.9	-24.7	0	51.1	-	-	74	-22.9	96	289	H
	*** 1.576	24.61	MAv1	27.9	-24.7	.11	27.92	54	-26.08	-	-	96	289	H
6	*** 2.271	47.91	PK2	31.7	-24.5	0	55.11	-	-	74	-18.89	301	102	H
	*** 2.272	32.36	MAv1	31.7	-24.5	.11	39.67	54	-14.33	-	-	301	102	H
7	*** 2.385	45.03	PK2	32	-24.5	0	52.53	-	-	74	-21.47	297	105	H
	*** 2.385	34.12	MAv1	32	-24.5	.11	41.73	54	-12.27	-	-	297	105	H
4	1.641	37.09	Pk	28.4	-24.6	0	40.89	-	-	-	-	0-360	102	H
5	2.103	35.18	Pk	31.1	-24.6	0	41.68	-	-	-	-	0-360	199	H
8	2.63	36.09	Pk	32.5	-24.3	0	44.29	-	-	-	-	0-360	199	H
9	5.76	36.69	Pk	34.7	-31.5	0	39.89	-	-	-	-	0-360	199	H
10	9.748	41.75	Pk	37	-27.2	0	51.55	-	-	-	-	0-360	199	H
11	*** 1.052	42.67	PK2	27.1	-27.2	0	42.57	-	-	74	-31.43	218	307	V
	*** 1.05	25.13	MAv1	27.1	-27.2	.11	25.14	54	-28.86	-	-	218	307	V
12	*** 1.318	42.3	PK2	28.9	-25.6	0	45.6	-	-	74	-28.4	231	204	V
	*** 1.32	24.07	MAv1	28.9	-25.6	.11	27.48	54	-26.52	-	-	231	204	V
13	*** 1.574	46.79	PK2	27.9	-24.7	0	49.99	-	-	74	-24.01	335	106	V
	*** 1.574	24.93	MAv1	27.9	-24.7	.11	28.24	54	-25.76	-	-	335	106	V
18	*** 2.271	55.6	PK2	31.7	-24.5	0	62.8	-	-	74	-11.2	198	153	V
	*** 2.272	39.01	MAv1	31.7	-24.5	.11	46.32	54	-7.68	-	-	198	153	V
19	*** 2.385	50.1	PK2	32	-24.5	0	57.6	-	-	74	-16.4	201	141	V
	*** 2.385	39.68	MAv1	32	-24.5	.11	47.29	54	-6.71	-	-	201	141	V
21	*** 2.792	38.88	PK2	32.1	-23.9	0	47.08	-	-	74	-26.92	178	189	V
	*** 2.79	25.19	MAv1	32.1	-23.9	.11	33.5	54	-20.5	-	-	178	189	V
22	*** 3.95	41.82	PK2	33.6	-32.1	0	43.32	-	-	74	-30.68	265	162	V
	*** 3.952	29.69	MAv1	33.6	-32.1	.11	31.3	54	-22.7	-	-	265	162	V
14	1.648	39.67	Pk	28.5	-24.5	0	43.67	-	-	-	-	0-360	199	V
15	1.976	34.94	Pk	31.2	-24.6	0	41.54	-	-	-	-	0-360	199	V
16	2.104	34.37	Pk	31.1	-24.6	0	40.87	-	-	-	-	0-360	102	V
17	2.135	34.36	Pk	31.2	-24.5	0	41.06	-	-	-	-	0-360	199	V
20	2.628	40.87	Pk	32.5	-24.3	0	49.07	-	-	-	-	0-360	199	V
23	5.76	39.06	Pk	34.7	-31.5	0	42.26	-	-	-	-	0-360	199	V
24	9.748	36.45	Pk	37	-27.2	0	46.25	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

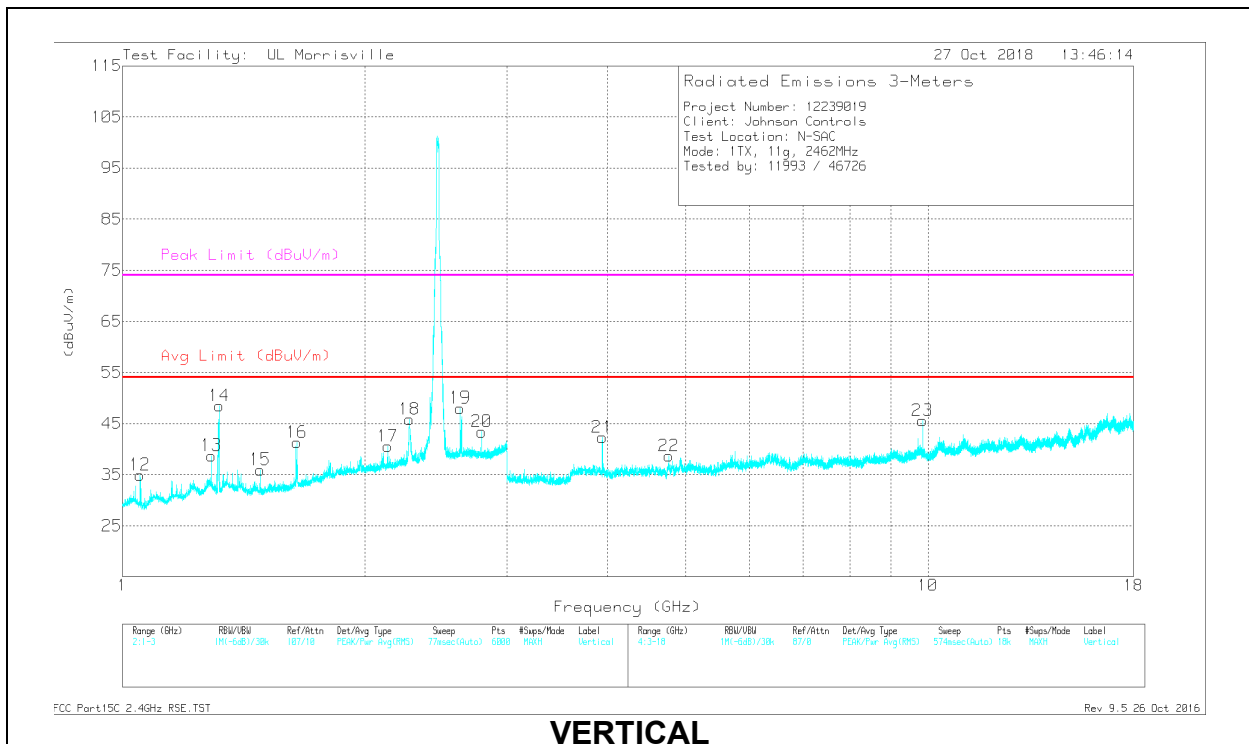
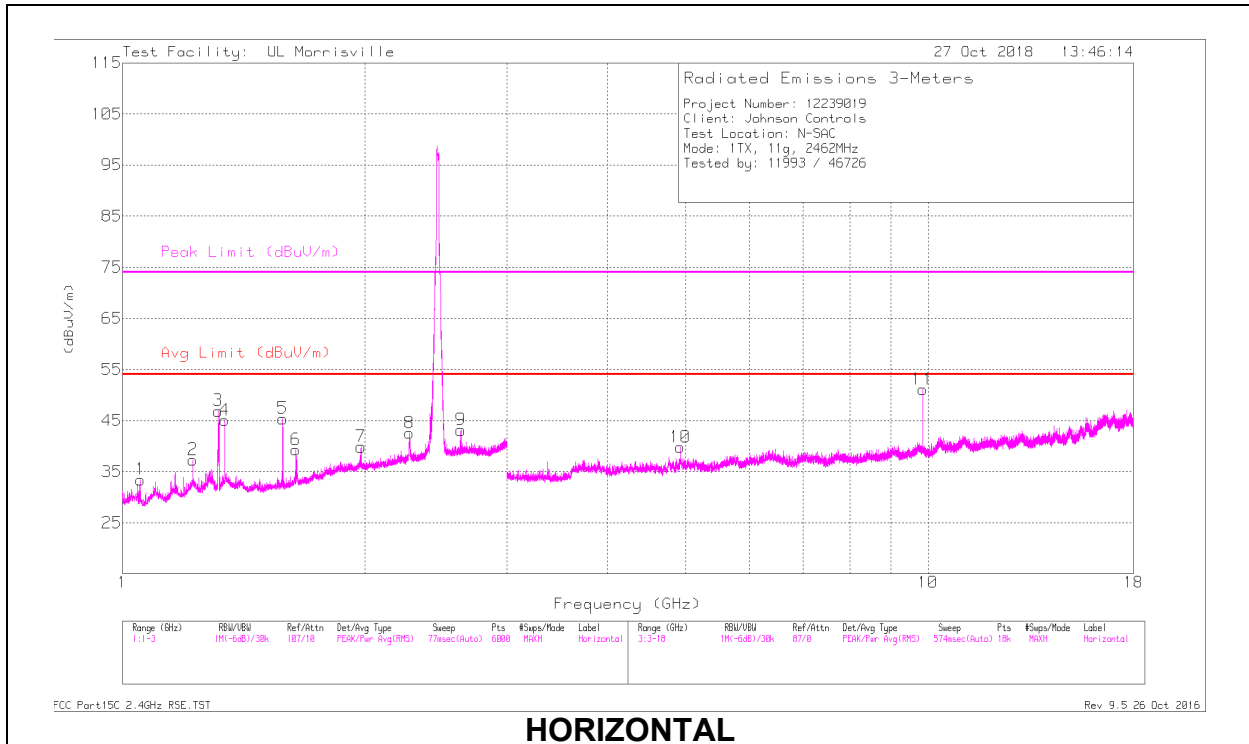
PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

Pk - Peak detector

HIGH CHANNEL, CH 11 RESULTS

Note – High channel Radiated Spurious emissions was performed at mid channel power setting.



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.054	42.48	PK2	27.1	-27.2	0	42.38	-	-	74	-31.62	198	247	H
	*** 1.053	24.4	MAv1	27.1	-27.2	.11	24.41	54	-29.59	-	-	198	247	H
2	*** 1.223	39.67	PK2	28.9	-26.1	0	42.47	-	-	74	-31.53	186	306	H
	*** 1.223	25.06	MAv1	28.9	-26.1	.11	27.97	54	-26.03	-	-	186	306	H
3	*** 1.314	42.06	PK2	29	-25.7	0	45.36	-	-	74	-28.64	170	279	H
	*** 1.313	24.39	MAv1	29	-25.7	.11	27.8	54	-26.2	-	-	170	279	H
4	*** 1.34	44.03	PK2	29.3	-25.6	0	47.73	-	-	74	-26.27	173	288	H
	*** 1.34	25.05	MAv1	29.3	-25.6	.11	28.86	54	-25.14	-	-	173	288	H
5	*** 1.579	44.42	PK2	27.8	-24.7	0	47.52	-	-	74	-26.48	103	142	H
	*** 1.581	24.5	MAv1	27.8	-24.7	.11	27.71	54	-26.29	-	-	103	142	H
8	*** 2.271	48.79	PK2	31.7	-24.5	0	55.99	-	-	74	-18.01	298	103	H
	*** 2.271	30.44	MAv1	31.7	-24.5	.11	37.75	54	-16.25	-	-	298	103	H
10	*** 4.923	42.54	PK2	34.1	-31.9	0	44.74	-	-	74	-29.26	207	208	H
	*** 4.924	30.59	MAv1	34.1	-32	.11	32.8	54	-21.2	-	-	207	208	H
6	1.641	35.51	Pk	28.4	-24.6	0	39.31	-	-	-	-	0-360	199	H
7	1.977	33.28	Pk	31.2	-24.6	0	39.88	-	-	-	-	0-360	199	H
9	2.631	34.95	Pk	32.5	-24.3	0	43.15	-	-	-	-	0-360	102	H
11	9.848	41.69	Pk	37	-27.6	0	51.09	-	-	-	-	0-360	102	H
12	*** 1.052	40.47	PK2	27.1	-27.2	0	40.37	-	-	74	-33.63	107	168	V
	*** 1.05	24.81	MAv1	27.1	-27.2	.11	24.82	54	-29.18	-	-	107	168	V
13	* 1.292	43.66	PK2	29.2	-25.8	0	47.06	-	-	74	-26.94	142	208	V
	* 1.291	25.17	MAv1	29.3	-25.8	.11	28.78	54	-25.22	-	-	142	208	V
14	*** 1.318	43.25	PK2	28.9	-25.6	0	46.55	-	-	74	-27.45	136	223	V
	*** 1.32	24.3	MAv1	28.9	-25.6	.11	27.71	54	-26.29	-	-	136	223	V
15	*** 1.483	35.9	PK2	27.9	-25.1	0	38.7	-	-	74	-35.3	339	210	V
	*** 1.483	23.86	MAv1	27.9	-25.1	.11	26.77	54	-27.23	-	-	339	210	V
18	*** 2.272	51.95	PK2	31.7	-24.5	0	59.15	-	-	74	-14.85	185	168	V
	*** 2.271	34.62	MAv1	31.7	-24.5	.11	41.93	54	-12.07	-	-	185	168	V
20	*** 2.793	37.42	PK2	32.2	-23.9	0	45.72	-	-	74	-28.28	263	340	V
	*** 2.791	25.24	MAv1	32.1	-23.9	.11	33.55	54	-20.45	-	-	263	340	V
21	*** 3.941	40.62	PK2	33.6	-32	0	42.22	-	-	74	-31.78	101	350	V
	*** 3.942	29.45	MAv1	33.6	-32	.11	31.16	54	-22.84	-	-	101	350	V
22	*** 4.767	42.13	PK2	34.1	-32.1	0	44.13	-	-	74	-29.87	32	216	V
	*** 4.769	30.67	MAv1	34.1	-32.1	.11	32.78	54	-21.22	-	-	32	216	V
16	1.647	37.27	Pk	28.5	-24.5	0	41.27	-	-	-	-	0-360	102	V
17	2.136	33.83	Pk	31.2	-24.5	0	40.53	-	-	-	-	0-360	199	V
19	2.626	39.83	Pk	32.5	-24.3	0	48.03	-	-	-	-	0-360	199	V
23	9.847	36.21	Pk	37	-27.6	0	45.61	-	-	-	-	0-360	102	V

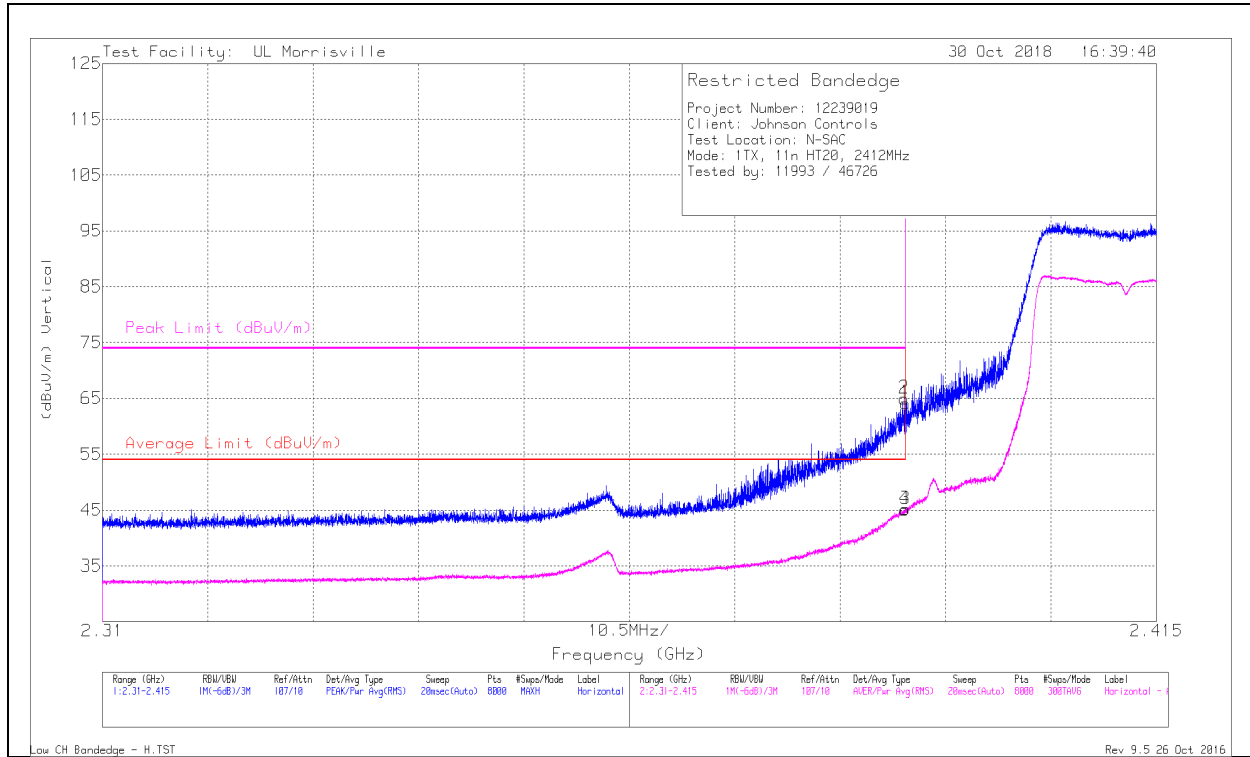
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average
 Pk - Peak detector

10.1.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL, CH 1)

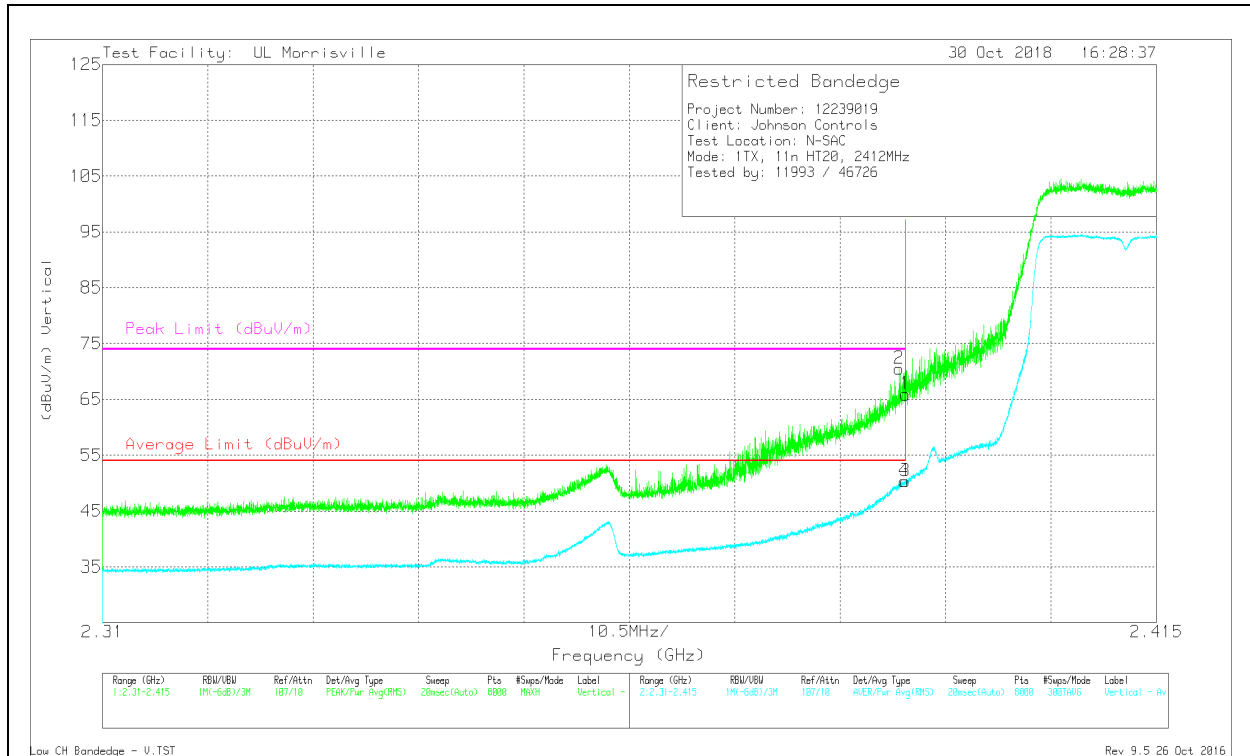
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	56.66	Pk	32	-24.5	0	64.16	-	-	74	-9.84	306	238	H
2	*** 2.39	57.5	Pk	32	-24.5	0	65	-	-	74	-9	306	238	H
3	*** 2.39	37.55	RMS	32	-24.5	.11	45.16	54	-8.84	-	-	306	238	H
4	*** 2.39	37.51	RMS	32	-24.5	.11	45.12	54	-8.88	-	-	306	238	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

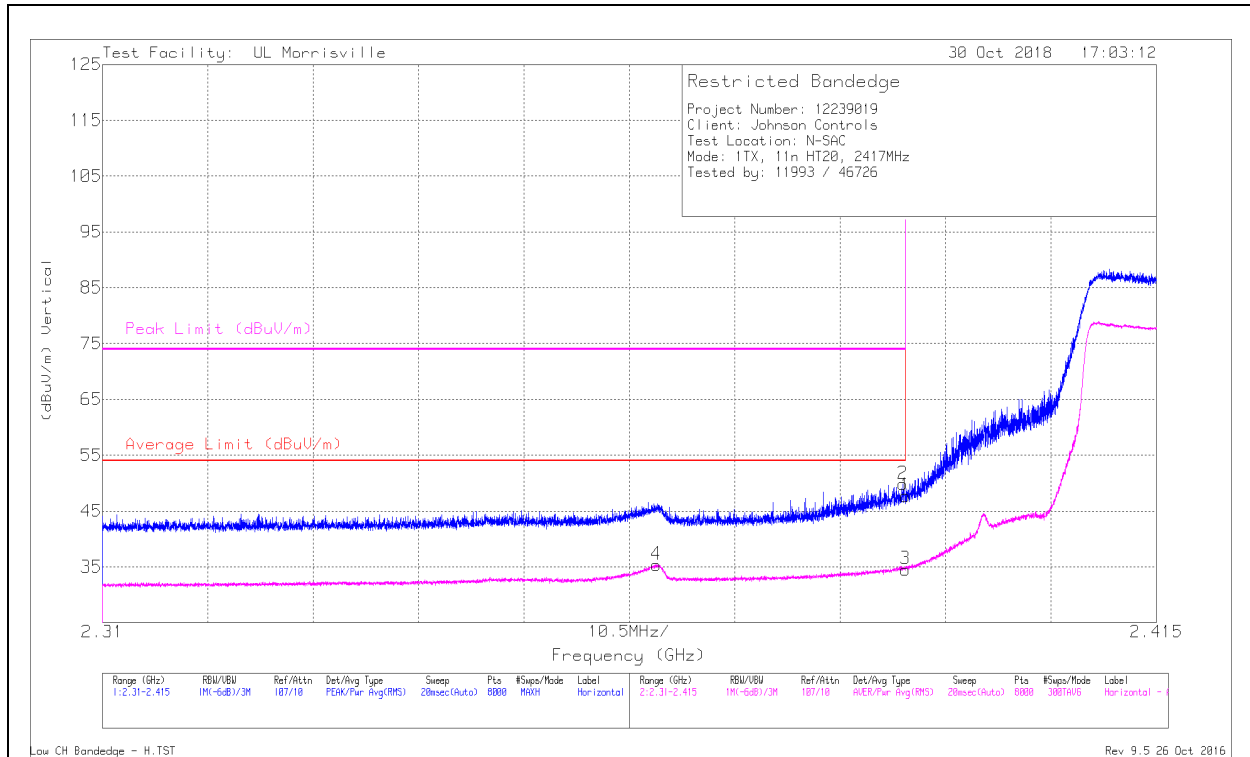


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	58.41	Pk	32	-24.5	0	65.91	-	-	74	-8.09	220	236	V
2	*** 2.389	63	Pk	32	-24.5	0	70.5	-	-	74	-3.5	220	236	V
3	*** 2.39	42.73	RMS	32	-24.5	.11	50.34	54	-3.66	-	-	220	236	V
4	*** 2.39	42.73	RMS	32	-24.5	.11	50.34	54	-3.66	-	-	220	236	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANDEDGE (LOW CHANNEL, CH 2)

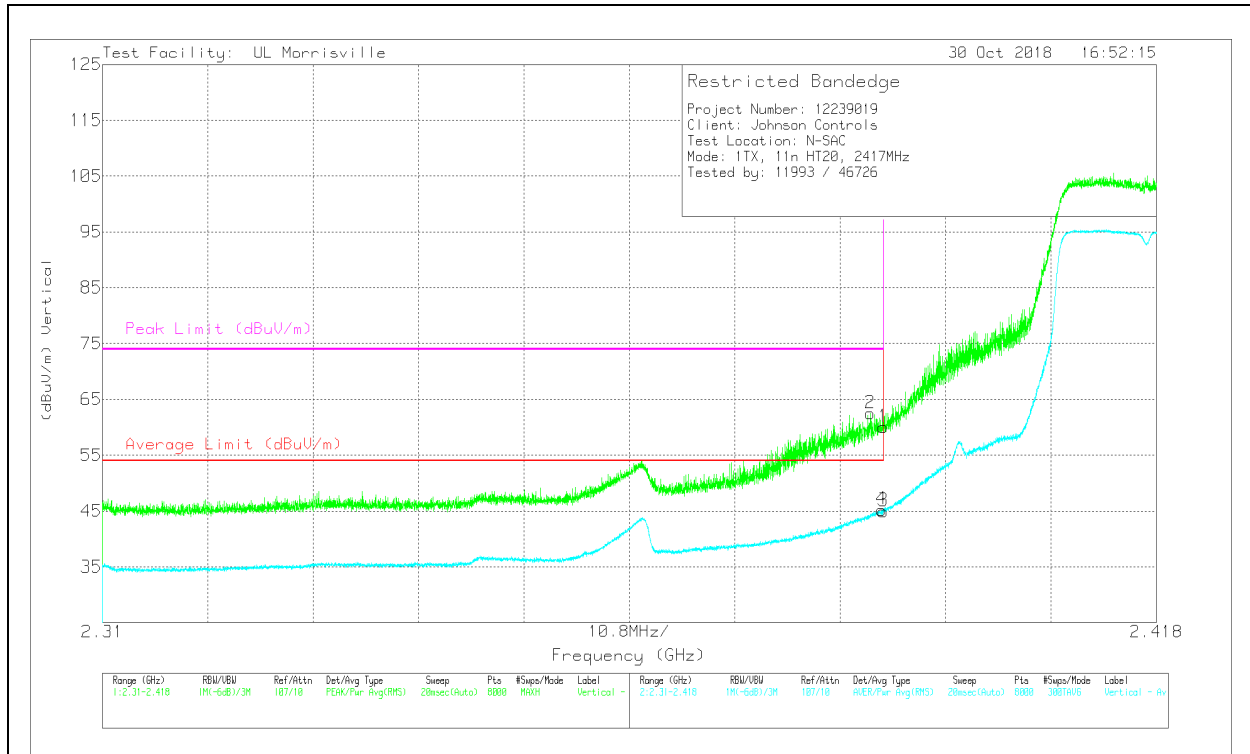
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	40.21	Pk	32	-24.5	0	47.71	-	-	74	-26.29	295	388	H
2	*** 2.39	42.37	Pk	32	-24.5	0	49.87	-	-	74	-24.13	295	388	H
3	*** 2.39	26.94	RMS	32	-24.5	.11	34.55	54	-19.45	-	-	295	388	H
4	*** 2.365	27.98	RMS	31.8	-24.5	.11	35.39	54	-18.61	-	-	295	388	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

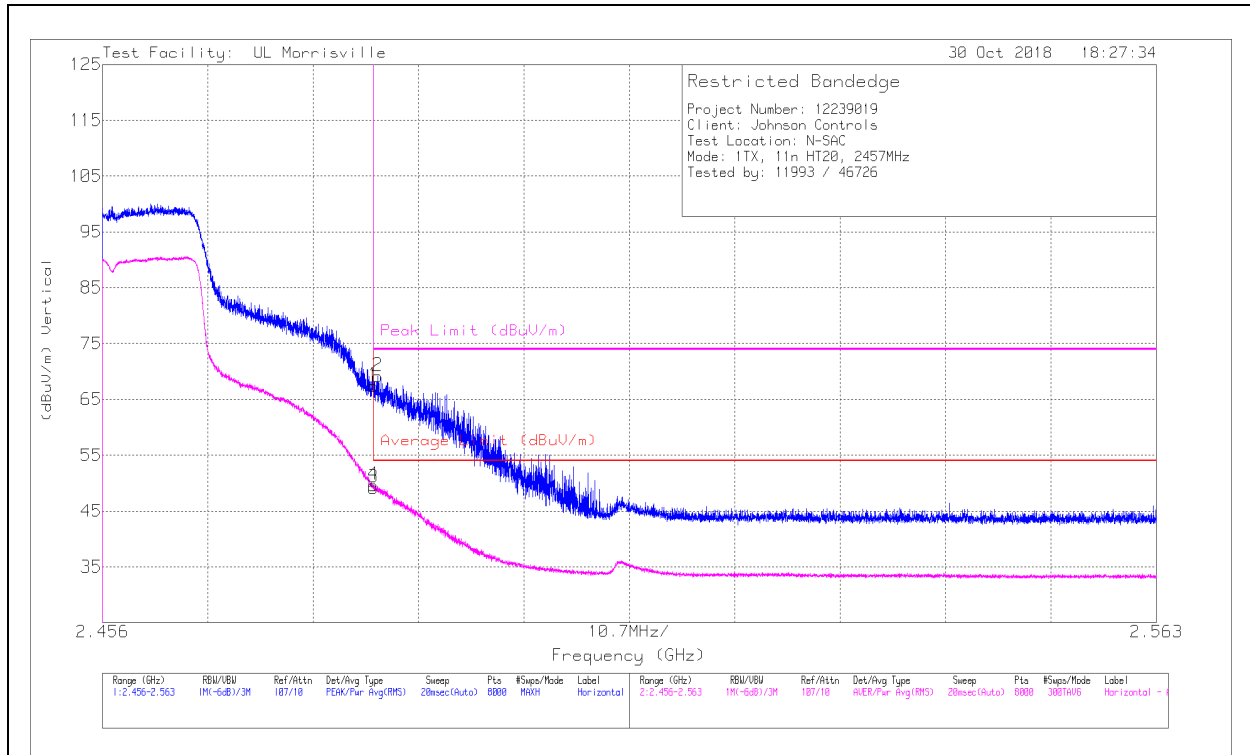


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.39	52.54	Pk	32	-24.5	0	60.04	-	-	74	-13.96	218	239	V
2	*** 2.389	55.01	Pk	32	-24.5	0	62.51	-	-	74	-11.49	218	239	V
3	*** 2.39	37.38	RMS	32	-24.5	.11	44.99	54	-9.01	-	-	218	239	V
4	*** 2.39	37.63	RMS	32	-24.5	.11	45.24	54	-8.76	-	-	218	239	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 10)

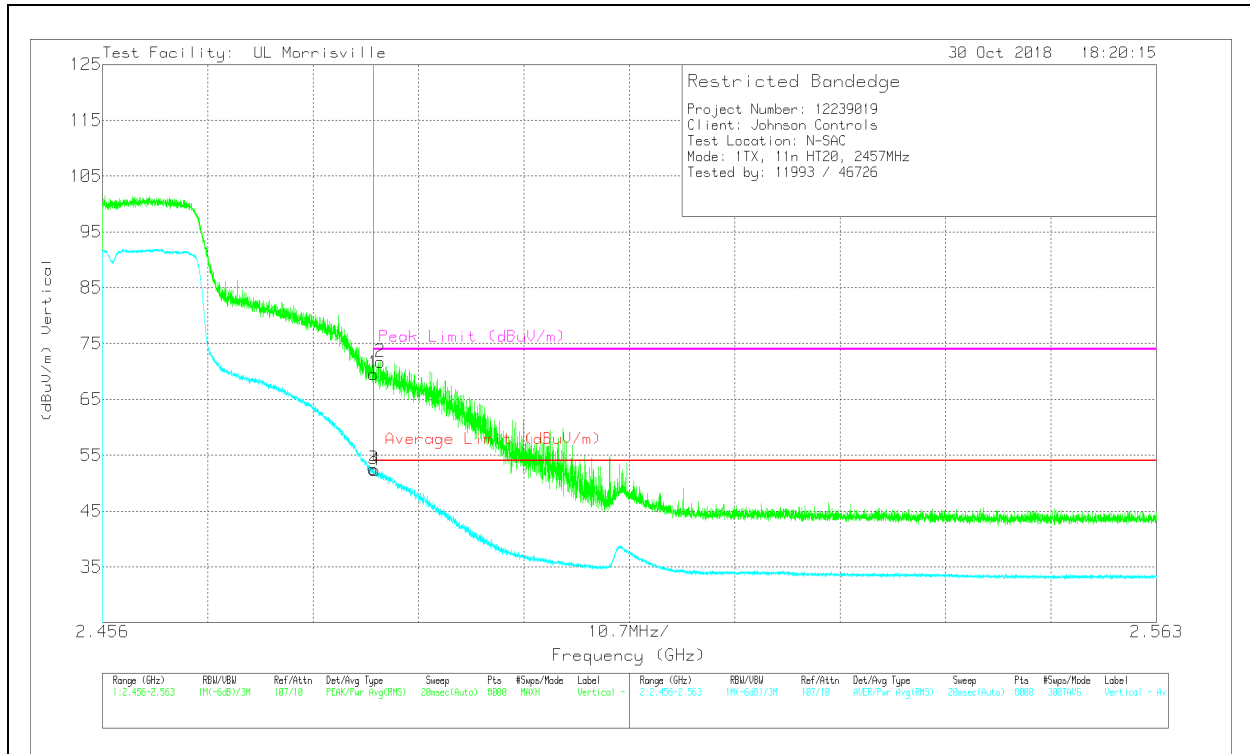
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 2.484	59.48	Pk	32.4	-24.4	0	67.48	-	-	74	-6.52	262	272	H
2	*** 2.484	61.2	Pk	32.4	-24.4	0	69.2	-	-	74	-4.8	262	272	H
3	*** 2.484	41.08	RMS	32.4	-24.4	.11	49.19	54	-4.81	-	-	262	272	H
4	*** 2.484	41.56	RMS	32.4	-24.4	.11	49.67	54	-4.33	-	-	262	272	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT

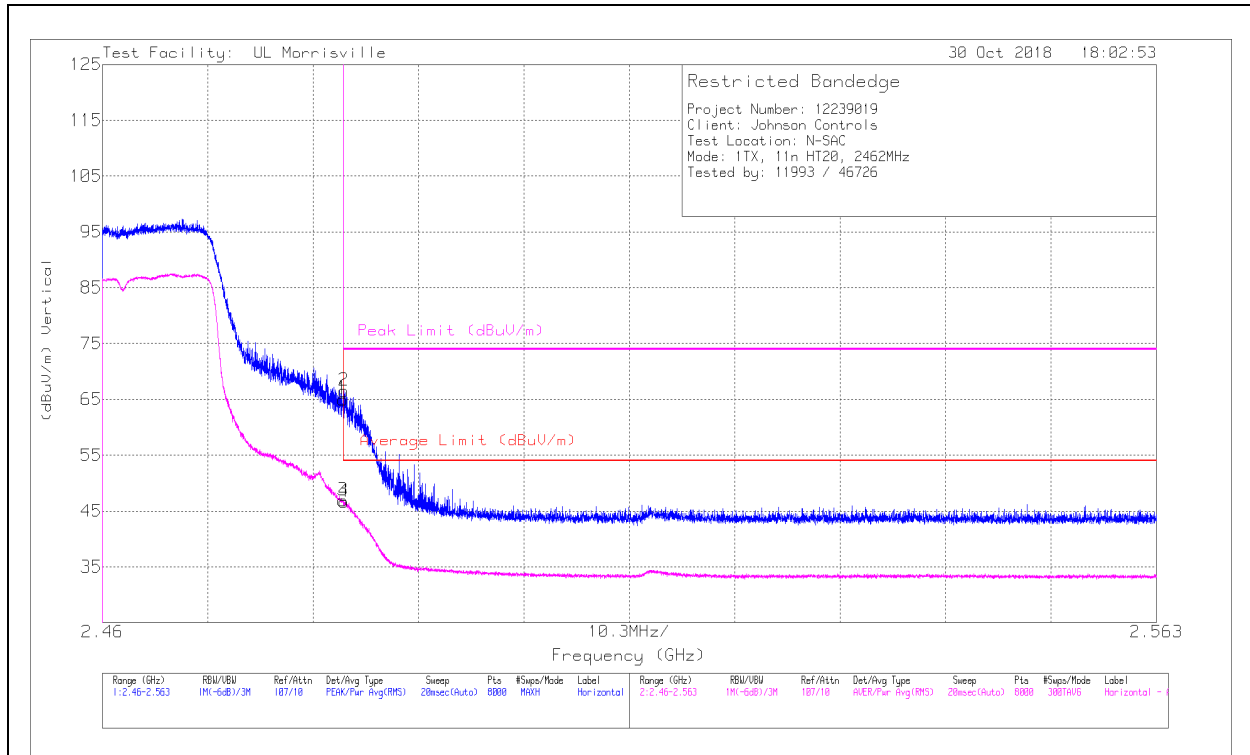


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	61.58	Pk	32.4	-24.4	0	69.58	-	-	74	-4.42	147	281	V
2	* ** 2.484	63.75	Pk	32.4	-24.4	0	71.75	-	-	74	-2.25	147	281	V
3	* ** 2.484	44.47	RMS	32.4	-24.4	.11	52.58	54	-1.42	-	-	147	281	V
4	* ** 2.484	44.21	RMS	32.4	-24.4	.11	52.32	54	-1.68	-	-	147	281	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

BANEDGE (HIGH CHANNEL, CH 11)

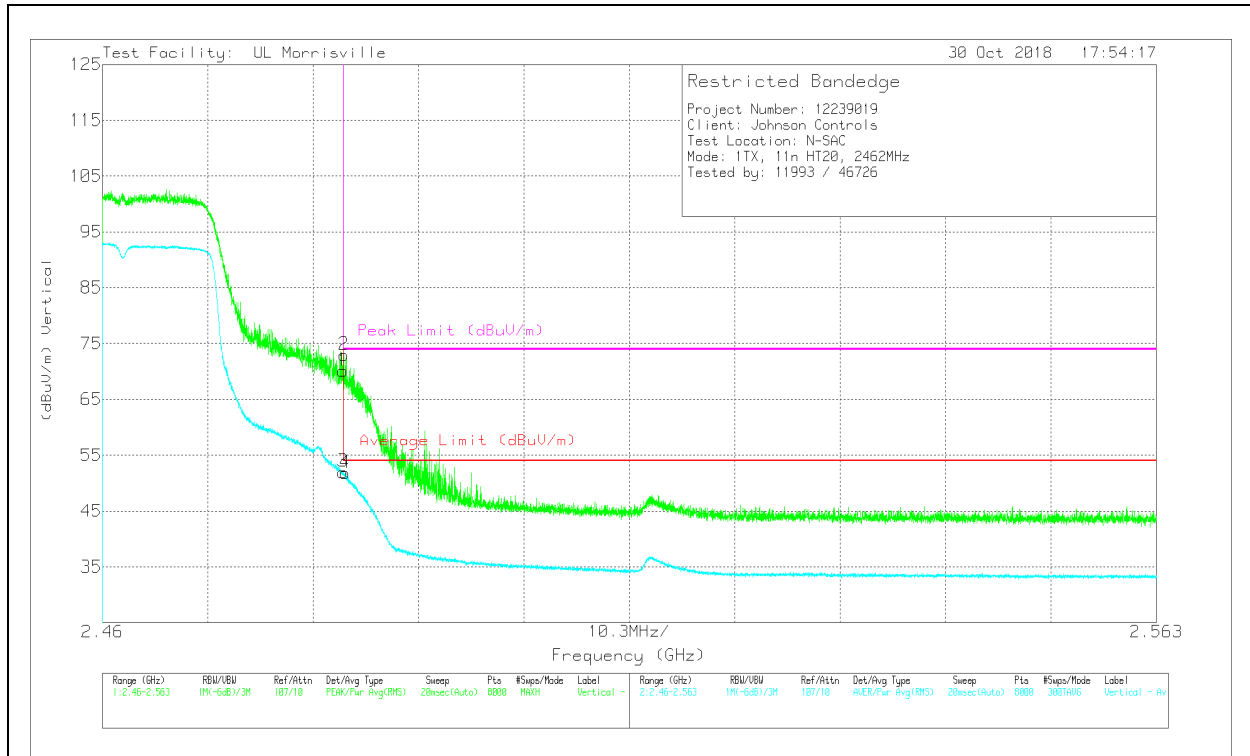
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	57.02	Pk	32.4	-24.4	0	65.02	-	-	74	-8.98	266	258	H
2	* ** 2.484	58.52	Pk	32.4	-24.4	0	66.52	-	-	74	-7.48	266	258	H
3	* ** 2.484	38.82	RMS	32.4	-24.4	.11	46.93	54	-7.07	-	-	266	258	H
4	* ** 2.484	38.54	RMS	32.4	-24.4	.11	46.65	54	-7.35	-	-	266	258	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

VERTICAL RESULT



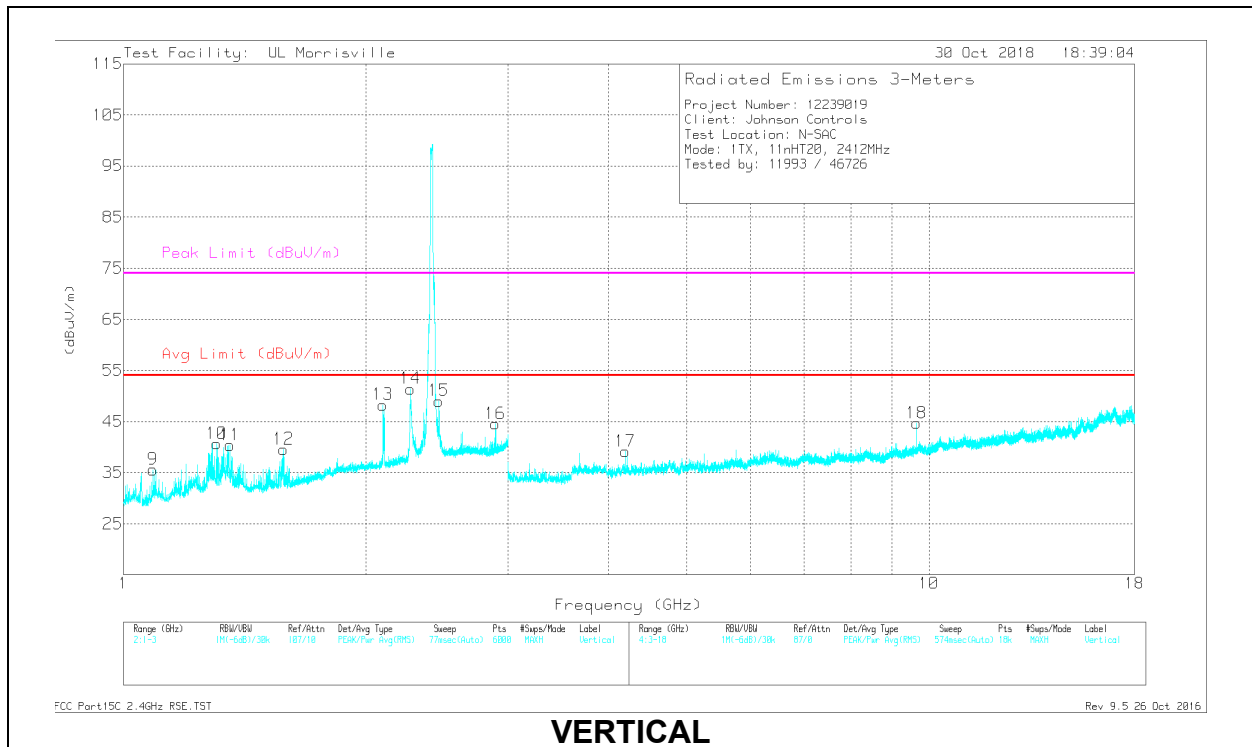
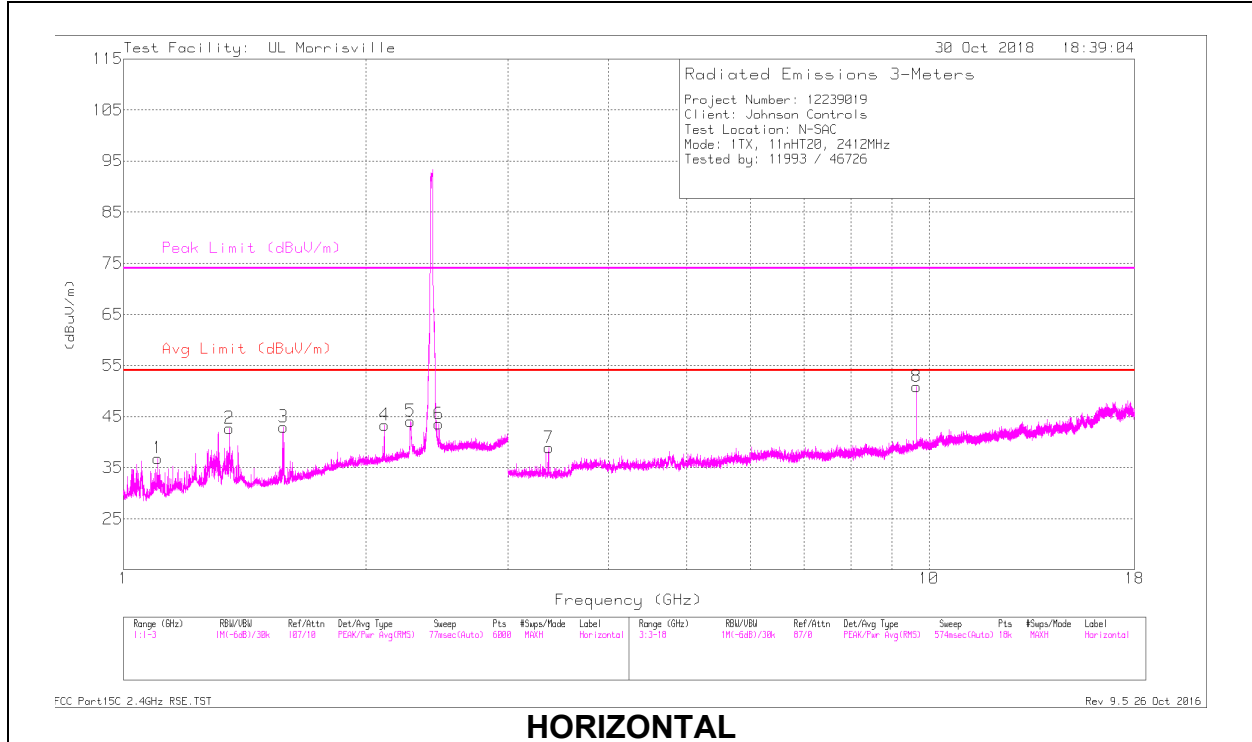
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.484	62.13	Pk	32.4	-24.4	0	70.13	-	-	74	-3.87	214	259	V
2	* ** 2.484	64.99	Pk	32.4	-24.4	0	72.99	-	-	74	-1.01	214	259	V
3	* ** 2.484	43.89	RMS	32.4	-24.4	.11	52	54	-2	-	-	214	259	V
4	* ** 2.484	43.71	RMS	32.4	-24.4	.11	51.82	54	-2.18	-	-	214	259	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

Note – Low channel Radiated Spurious emissions was performed as mid channel power setting.

LOW CHANNEL, CH 1 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.103	42.27	PK2	27.8	-26.9	0	43.17	-	-	74	-30.83	173	209	H
	*** 1.104	25.49	MAv1	27.8	-26.9	.11	26.5	54	-27.5	-	-	173	209	H
2	*** 1.35	45.9	PK2	29.3	-25.5	0	49.7	-	-	74	-24.3	173	310	H
	*** 1.35	25.59	MAv1	29.3	-25.5	.11	29.5	54	-24.5	-	-	173	310	H
3	*** 1.581	44.94	PK2	27.8	-24.7	0	48.04	-	-	74	-25.96	151	143	H
	*** 1.578	24.82	MAv1	27.8	-24.7	.11	28.03	54	-25.97	-	-	151	143	H
5	*** 2.271	46.13	PK2	31.7	-24.5	0	53.33	-	-	74	-20.67	168	178	H
	*** 2.273	32.85	MAv1	31.7	-24.5	.11	40.16	54	-13.84	-	-	168	178	H
9	*** 1.087	39.2	PK2	27.6	-26.9	0	39.9	-	-	74	-34.1	215	239	V
	*** 1.089	24.93	MAv1	27.6	-26.9	.11	25.74	54	-28.26	-	-	215	239	V
10	*** 1.305	40.87	PK2	29	-25.7	0	44.17	-	-	74	-29.83	230	186	V
	*** 1.304	23.99	MAv1	29	-25.7	.11	27.4	54	-26.6	-	-	230	186	V
11	*** 1.353	43.14	PK2	29.3	-25.5	0	46.94	-	-	74	-27.06	228	166	V
	*** 1.353	24.63	MAv1	29.3	-25.5	.11	28.54	54	-25.46	-	-	228	166	V
12	*** 1.578	44.51	PK2	27.8	-24.7	0	47.61	-	-	74	-26.39	298	278	V
	*** 1.581	24.19	MAv1	27.8	-24.7	.11	27.4	54	-26.6	-	-	298	278	V
14	*** 2.272	53.67	PK2	31.7	-24.5	0	60.87	-	-	74	-13.13	201	195	V
	*** 2.272	39.04	MAv1	31.7	-24.5	.11	46.35	54	-7.65	-	-	201	195	V
16	*** 2.892	42.49	PK2	32.4	-23.5	0	51.39	-	-	74	-22.61	181	180	V
	*** 2.891	25.08	MAv1	32.4	-23.5	.11	34.09	54	-19.91	-	-	181	180	V
17	*** 4.199	40.37	PK2	33.4	-31.6	0	42.17	-	-	74	-31.83	143	226	V
	*** 4.197	29.1	MAv1	33.4	-31.6	.11	31.01	54	-22.99	-	-	143	226	V
13	2.099	41.69	Pk	31.1	-24.5	0	48.29	-	-	-	-	0-360	102	V
4	2.109	36.67	Pk	31.2	-24.5	0	43.37	-	-	-	-	0-360	199	H
6	2.464	35.65	Pk	32.3	-24.4	0	43.55	-	-	-	-	0-360	102	H
15	2.464	41.14	Pk	32.3	-24.4	0	49.04	-	-	-	-	0-360	199	V
7	3.372	38.85	Pk	32.8	-32.7	0	38.95	-	-	-	-	0-360	199	H
8	9.648	41.94	Pk	36.9	-28	0	50.84	-	-	-	-	0-360	199	H
18	9.648	35.82	Pk	36.9	-28	0	44.72	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

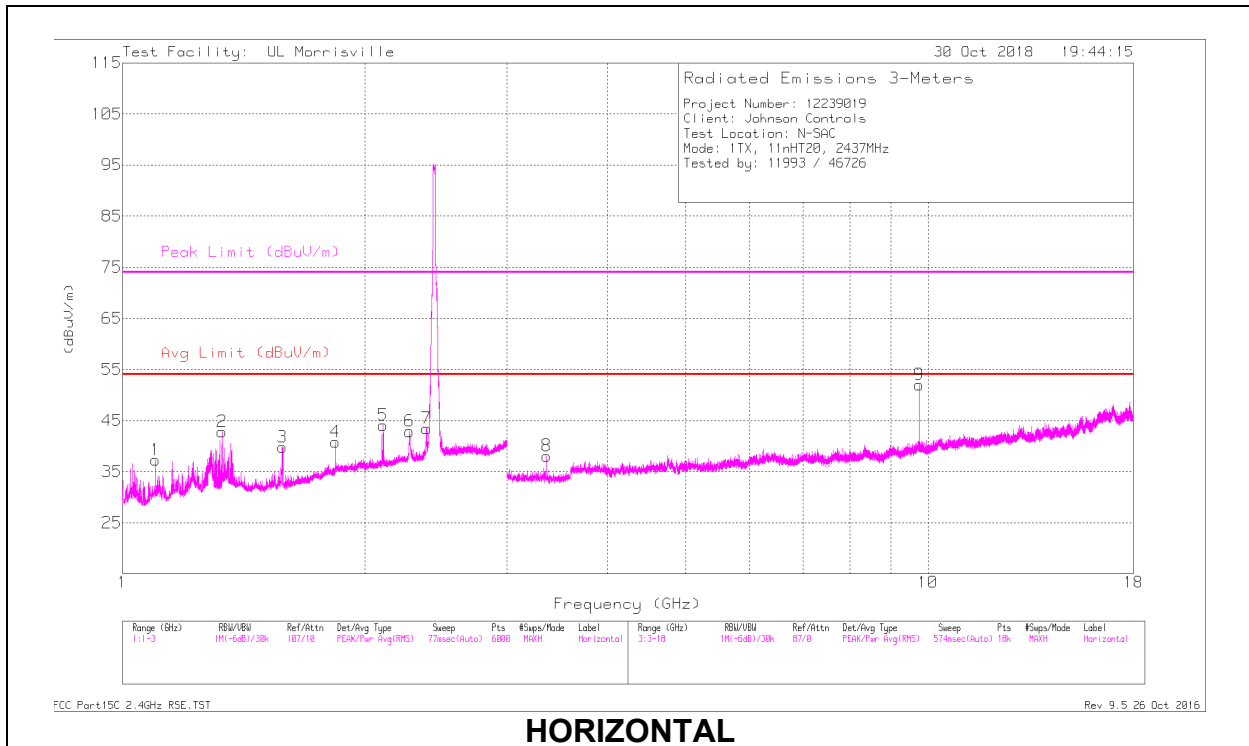
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

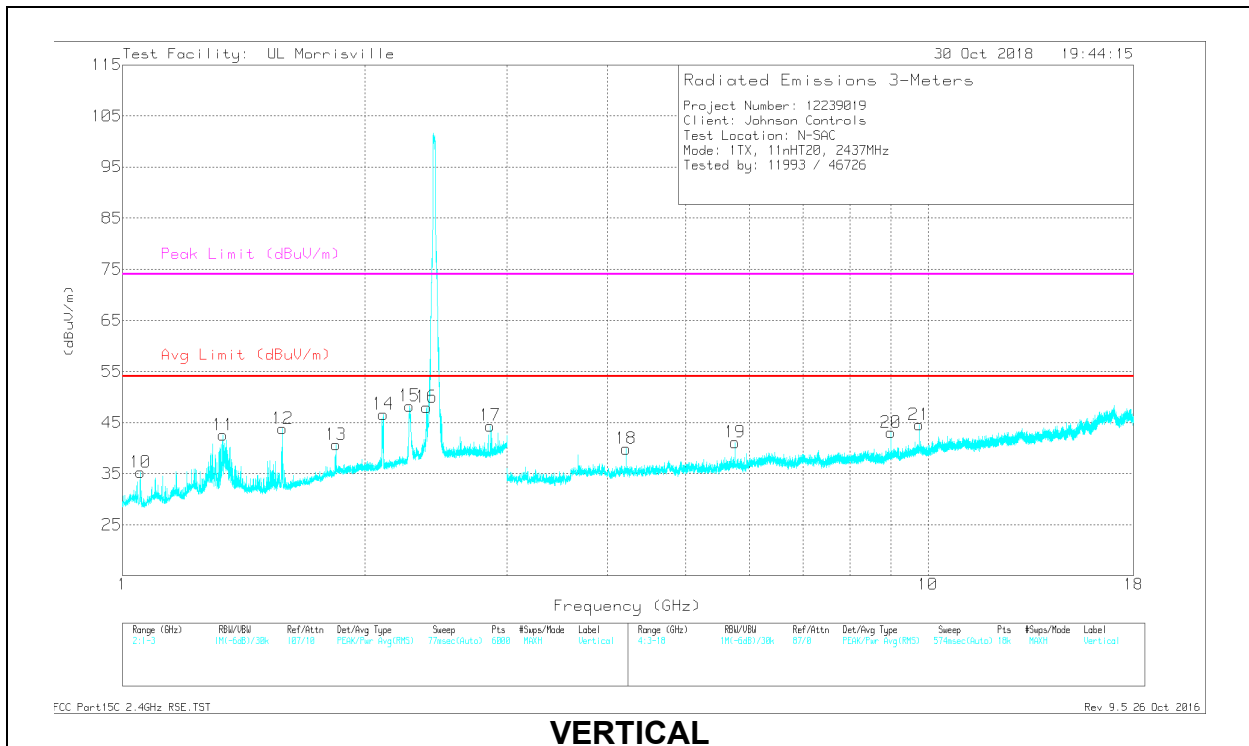
MAv1 - KDB558074 Option 1 Maximum RMS Average

Pk - Peak detector

MID CHANNEL, CH 6 RESULTS



HORIZONTAL



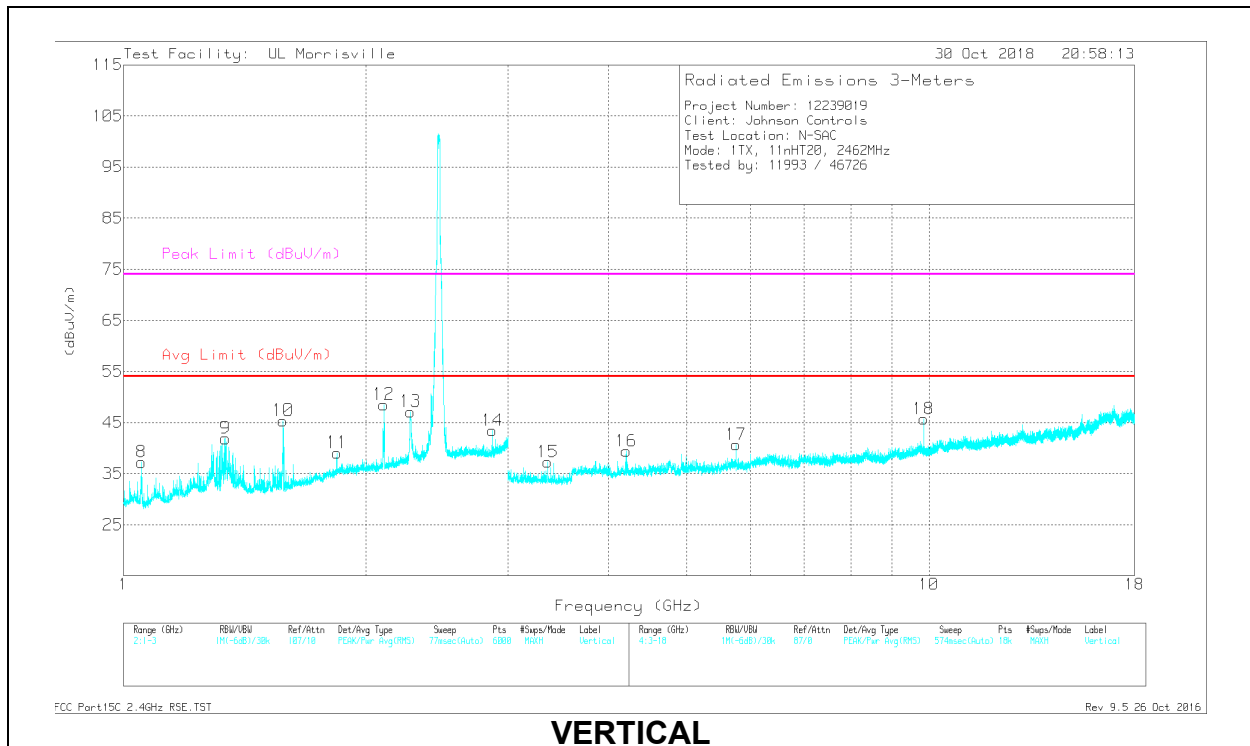
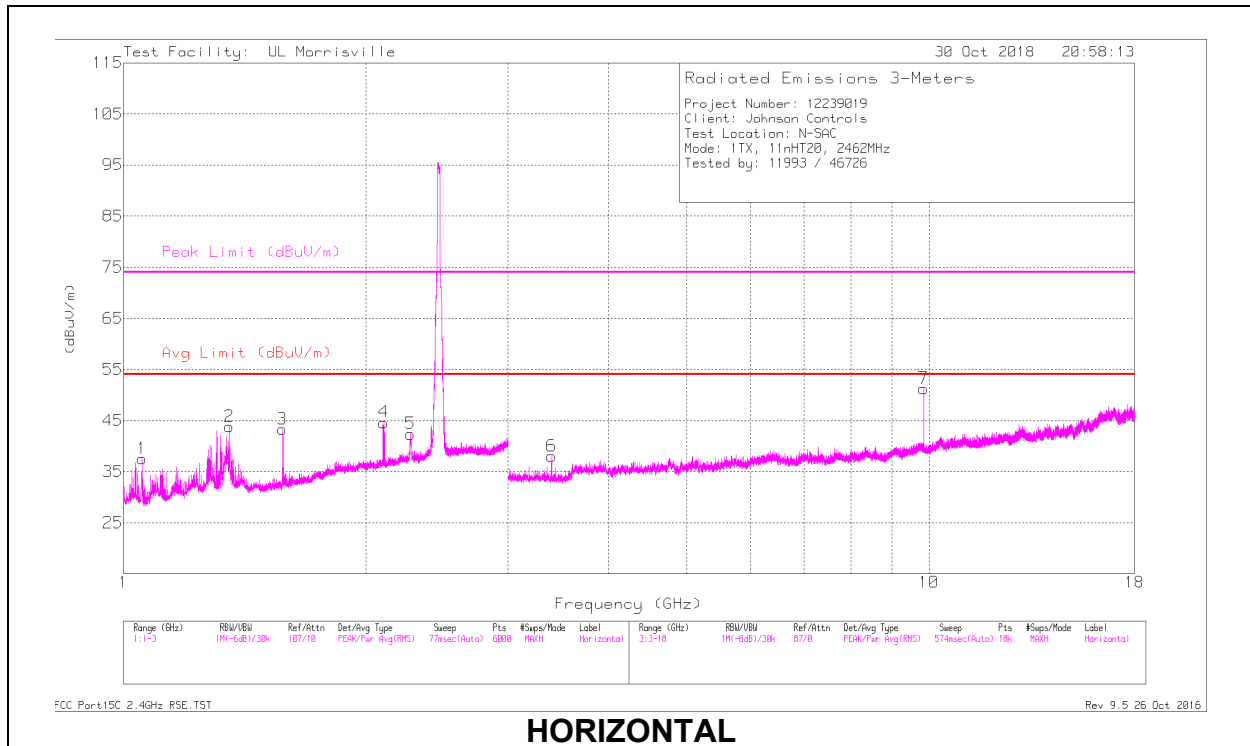
VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.098	43.22	PK2	27.7	-26.9	0	44.02	-	-	74	-29.98	179	347	H
	*** 1.097	25.25	MAv1	27.7	-26.9	.11	26.16	54	-27.84	-	-	179	347	H
2	*** 1.33	44.01	PK2	29	-25.7	0	47.31	-	-	74	-26.69	114	318	H
	*** 1.334	26.74	MAv1	29.1	-25.6	.11	30.35	54	-23.65	-	-	182	191	H
3	*** 1.582	47.14	PK2	27.8	-24.7	0	50.24	-	-	74	-23.76	103	247	H
	*** 1.581	24.5	MAv1	27.8	-24.7	.11	27.71	54	-26.29	-	-	103	247	H
6	*** 2.272	38.94	PK2	31.7	-24.5	0	46.14	-	-	74	-27.86	169	382	H
	*** 2.272	26.08	MAv1	31.7	-24.5	.11	33.39	54	-20.61	-	-	169	382	H
7	*** 2.385	39.99	PK2	32	-24.5	0	47.49	-	-	74	-26.51	326	247	H
	*** 2.385	28.71	MAv1	32	-24.5	.11	36.32	54	-17.68	-	-	326	247	H
10	*** 1.053	41.81	PK2	27.1	-27.2	0	41.71	-	-	74	-32.29	207	366	V
	*** 1.053	24.83	MAv1	27.1	-27.2	.11	24.84	54	-29.16	-	-	207	366	V
11	*** 1.333	44.52	PK2	29.1	-25.6	0	48.02	-	-	74	-25.98	153	180	V
	*** 1.337	24.94	MAv1	29.2	-25.6	.11	28.65	54	-25.35	-	-	153	180	V
12	*** 1.58	49.21	PK2	27.8	-24.7	0	52.31	-	-	74	-21.69	119	200	V
	*** 1.578	25.1	MAv1	27.8	-24.7	.11	28.31	54	-25.69	-	-	119	200	V
15	*** 2.273	50.07	PK2	31.7	-24.5	0	57.27	-	-	74	-16.73	199	200	V
	*** 2.272	36.33	MAv1	31.7	-24.5	.11	43.64	54	-10.36	-	-	199	200	V
16	*** 2.385	47.34	PK2	32	-24.5	0	54.84	-	-	74	-19.16	207	105	V
	*** 2.385	36.98	MAv1	32	-24.5	.11	44.59	54	-9.41	-	-	207	105	V
17	*** 2.862	40.08	PK2	32.1	-23.7	0	48.48	-	-	74	-25.52	176	248	V
	*** 2.863	25.18	MAv1	32.1	-23.7	.11	33.69	54	-20.31	-	-	176	248	V
18	*** 4.218	42.91	PK2	33.4	-31.7	0	44.61	-	-	74	-29.39	231	158	V
	*** 4.217	29.28	MAv1	33.4	-31.7	.11	31.09	54	-22.91	-	-	231	158	V
4	1.838	34.49	Pk	30.7	-24.4	0	40.79	-	-	-	-	0-360	199	H
13	1.841	34.4	Pk	30.7	-24.4	0	40.7	-	-	-	-	0-360	199	V
5	2.104	37.59	Pk	31.1	-24.6	0	44.09	-	-	-	-	0-360	102	H
14	2.108	40.04	Pk	31.1	-24.5	0	46.64	-	-	-	-	0-360	102	V
8	3.363	38.08	Pk	32.8	-32.8	0	38.08	-	-	-	-	0-360	199	H
19	5.76	37.93	Pk	34.7	-31.5	0	41.13	-	-	-	-	0-360	102	V
20	9	35.43	Pk	36.2	-28.6	0	43.03	-	-	-	-	0-360	200	V
21	9.747	34.79	Pk	37	-27.2	0	44.59	-	-	-	-	0-360	102	V
9	9.748	42.22	Pk	37	-27.2	0	52.02	-	-	-	-	0-360	199	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK2 - KDB558074 Method: Maximum Peak
 MAv1 - KDB558074 Option 1 Maximum RMS Average
 Pk - Peak detector

HIGH CHANNEL, CH 11 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 AF (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.053	46.48	PK2	27.1	-27.2	0	46.38	-	-	74	-27.62	213	180	H
	*** 1.053	25.43	MAv1	27.1	-27.2	.11	25.44	54	-28.56	-	-	213	180	H
2	*** 1.35	47.73	PK2	29.3	-25.5	0	51.53	-	-	74	-22.47	186	223	H
	*** 1.35	25.89	MAv1	29.3	-25.5	.11	29.8	54	-24.2	-	-	186	223	H
3	*** 1.579	45.68	PK2	27.8	-24.7	0	48.78	-	-	74	-25.22	107	214	H
	*** 1.579	24.5	MAv1	27.8	-24.7	.11	27.71	54	-26.29	-	-	107	214	H
5	*** 2.271	44.89	PK2	31.7	-24.5	0	52.09	-	-	74	-21.91	169	203	H
	*** 2.272	31.2	MAv1	31.7	-24.5	.11	38.51	54	-15.49	-	-	169	203	H
8	*** 1.05	48.63	PK2	27.1	-27.2	0	48.53	-	-	74	-25.47	221	228	V
	*** 1.05	25.55	MAv1	27.1	-27.2	.11	25.56	54	-28.44	-	-	221	228	V
9	*** 1.337	42.96	PK2	29.2	-25.6	0	46.56	-	-	74	-27.44	149	215	V
	*** 1.339	25.31	MAv1	29.2	-25.6	.11	29.02	54	-24.98	-	-	149	215	V
10	*** 1.576	44.76	PK2	27.9	-24.7	0	47.96	-	-	74	-26.04	333	341	V
	*** 1.576	24.47	MAv1	27.9	-24.7	.11	27.78	54	-26.22	-	-	333	341	V
13	*** 2.272	52.5	PK2	31.7	-24.5	0	59.7	-	-	74	-14.3	200	212	V
	*** 2.271	36.31	MAv1	31.7	-24.5	.11	43.62	54	-10.38	-	-	200	212	V
14	*** 2.87	37.51	PK2	32.2	-23.7	0	46.01	-	-	74	-27.99	235	321	V
	*** 2.87	24.88	MAv1	32.2	-23.7	.11	33.49	54	-20.51	-	-	235	321	V
16	*** 4.209	45.9	PK2	33.4	-31.8	0	47.5	-	-	74	-26.5	360	125	V
	*** 4.207	29.16	MAv1	33.4	-31.7	.11	30.97	54	-23.03	-	-	360	125	V
11	1.841	32.79	PK	30.7	-24.4	0	39.09	-	-	-	-	0-360	199	V
4	2.104	38.14	PK	31.1	-24.6	0	44.64	-	-	-	-	0-360	102	H
12	2.104	42.03	PK	31.1	-24.6	0	48.53	-	-	-	-	0-360	199	V
15	3.364	37.29	PK	32.8	-32.8	0	37.29	-	-	-	-	0-360	102	V
6	3.4	38.16	PK	32.7	-32.8	0	38.06	-	-	-	-	0-360	199	H
17	5.76	37.5	PK	34.7	-31.5	0	40.7	-	-	-	-	0-360	199	V
7	9.847	41.88	PK	37	-27.6	0	51.28	-	-	-	-	0-360	199	H
18	9.848	36.3	PK	37	-27.6	0	45.7	-	-	-	-	0-360	199	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

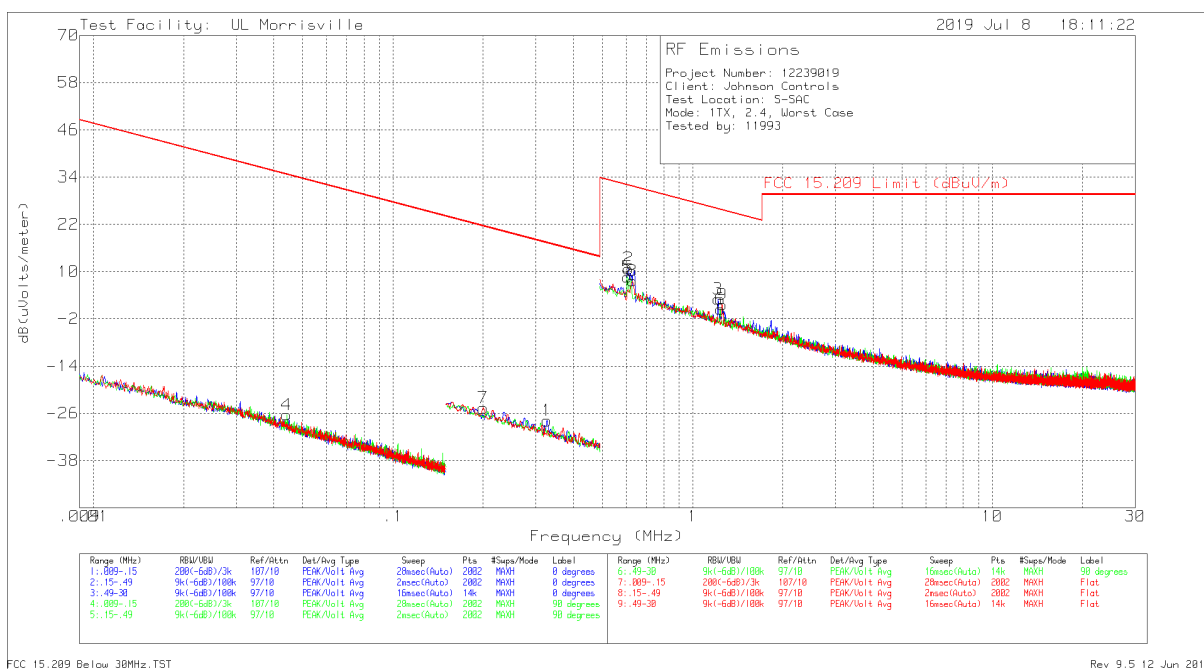
PK - Peak detector

10.2. WORST CASE RADIATED

10.2.1. 0.009 - 30MHz SPURIOUS EMISSIONS

Note: All measurements were made at a test distance of 3 m. The limits in the plots and tabular data are the FCC/IC limits extrapolated from the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to the measurement distance to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log$ (specification distance / test distance).

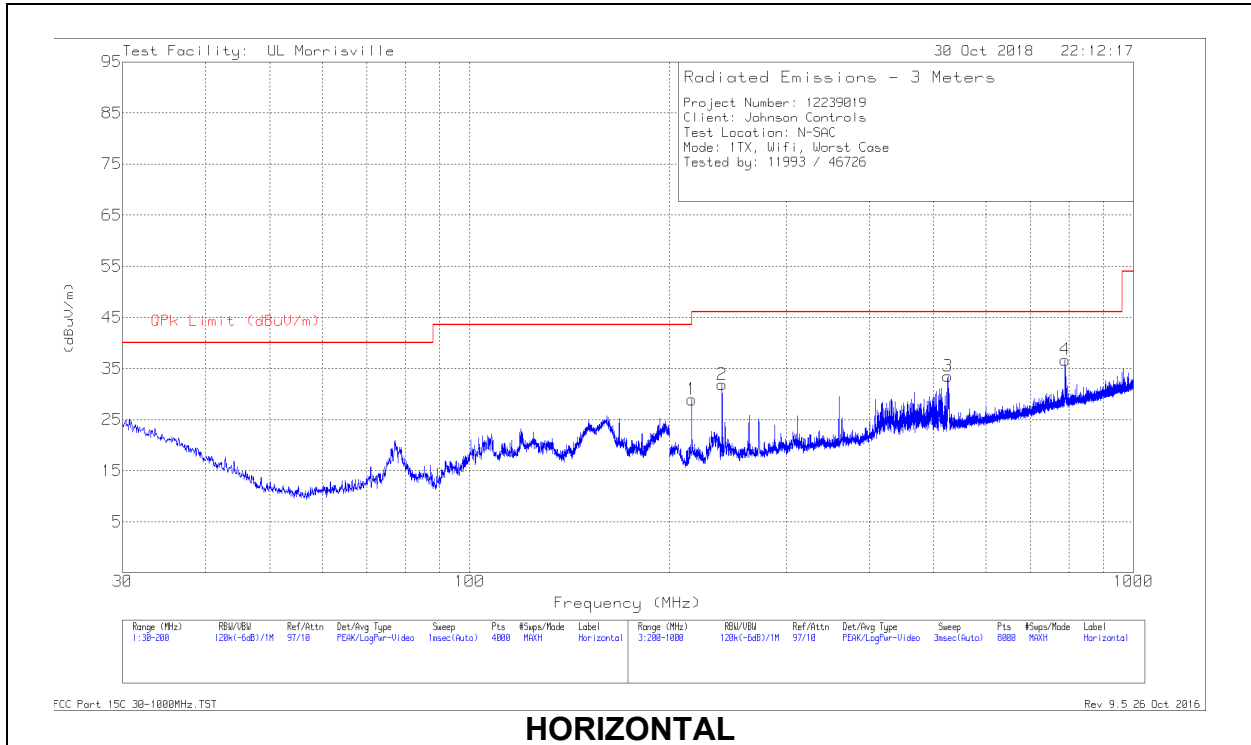
The below 30 MHz limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency 44.14 kHz resulted in a level of -26.38 dBuV/m, which is equivalent to $-26.38 - 51.5 = -77.88$ dBuA/m, which has the same margin, -61.09 dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.



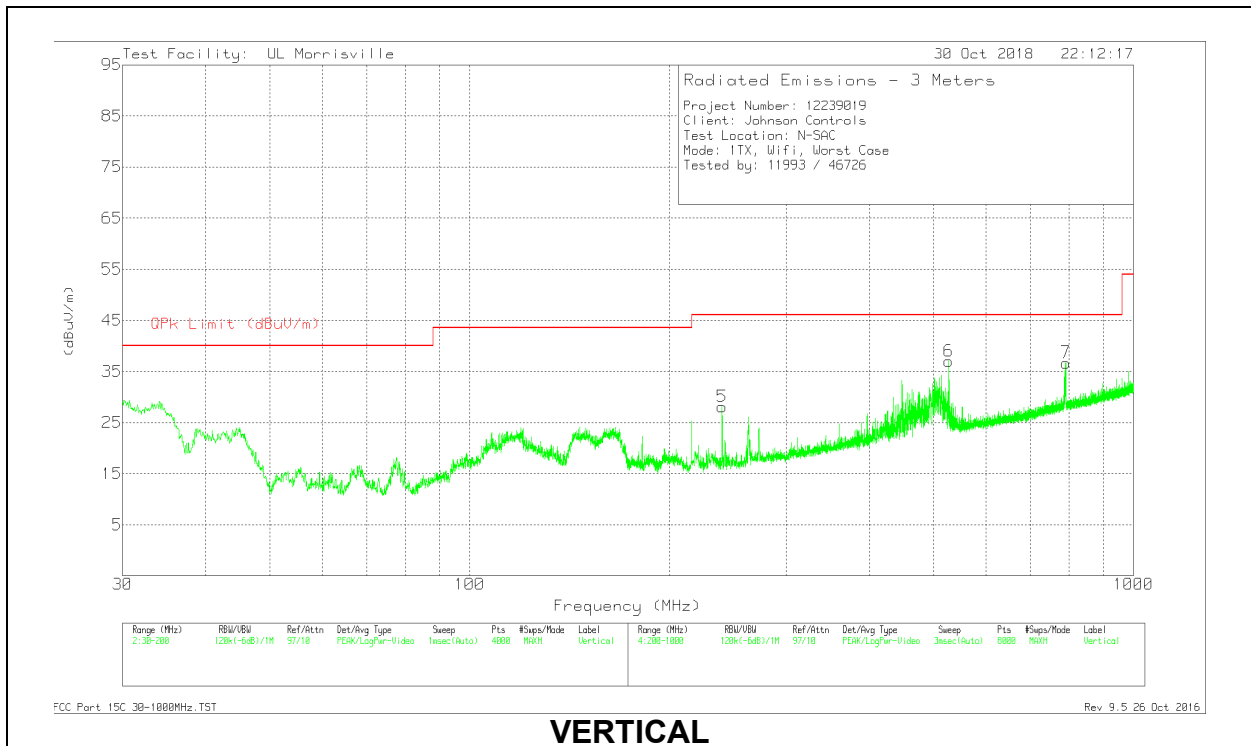
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0079 AF (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	QP/AVG FCC 15.209 Limit (dBuV/m)	PK FCC 15.209 Limit (dBuV/m)	Worst-case Margin (dB)	Azimuth (Degs)	Antenna Face
4	.04414	41.52	Pk	12	.1	-80	-26.38	34.71	54.71	-61.09	0-360	Off
7	.20007	44.52	Pk	10.7	.1	-80	-24.68	21.58	41.58	-46.26	0-360	Flat
1	.32672	41.43	Pk	10.6	.1	-80	-27.87	17.32	37.32	-45.19	0-360	On
5	.60594	37.71	Pk	10.8	.1	-40	8.61	31.96	-	-23.35	0-360	Off
2	.61016	39.85	Pk	10.8	.1	-40	10.75	31.9	-	-21.15	0-360	On
8	.62913	36.74	Pk	10.8	.1	-40	7.64	31.63	-	-23.99	0-360	Flat
3	1.21515	31.78	Pk	11	.2	-40	2.98	25.91	-	-22.93	0-360	On
6	1.23623	29.24	Pk	11	.2	-40	.44	25.76	-	-25.32	0-360	Off
9	1.2552	30.37	Pk	11	.2	-40	1.57	25.63	-	-24.06	0-360	Flat

Pk - Peak detector

10.2.2. 30-1000MHz SPURIOUS EMISSIONS



HORIZONTAL

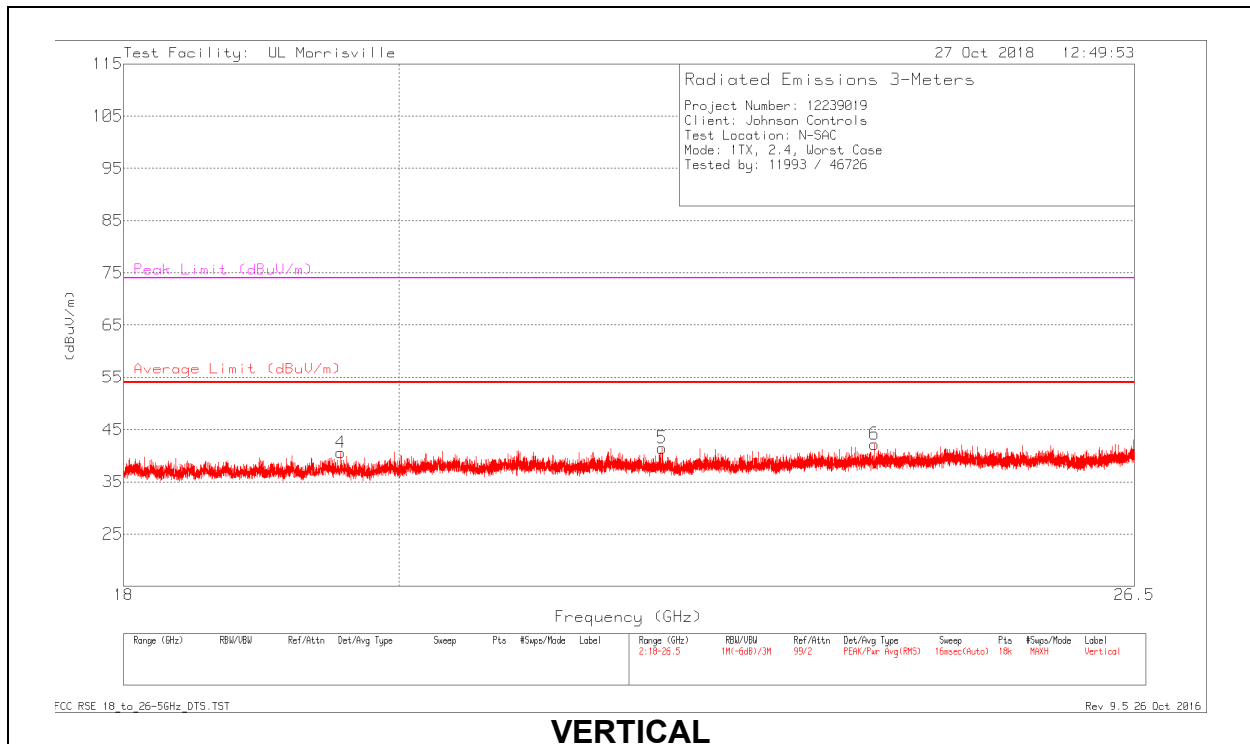
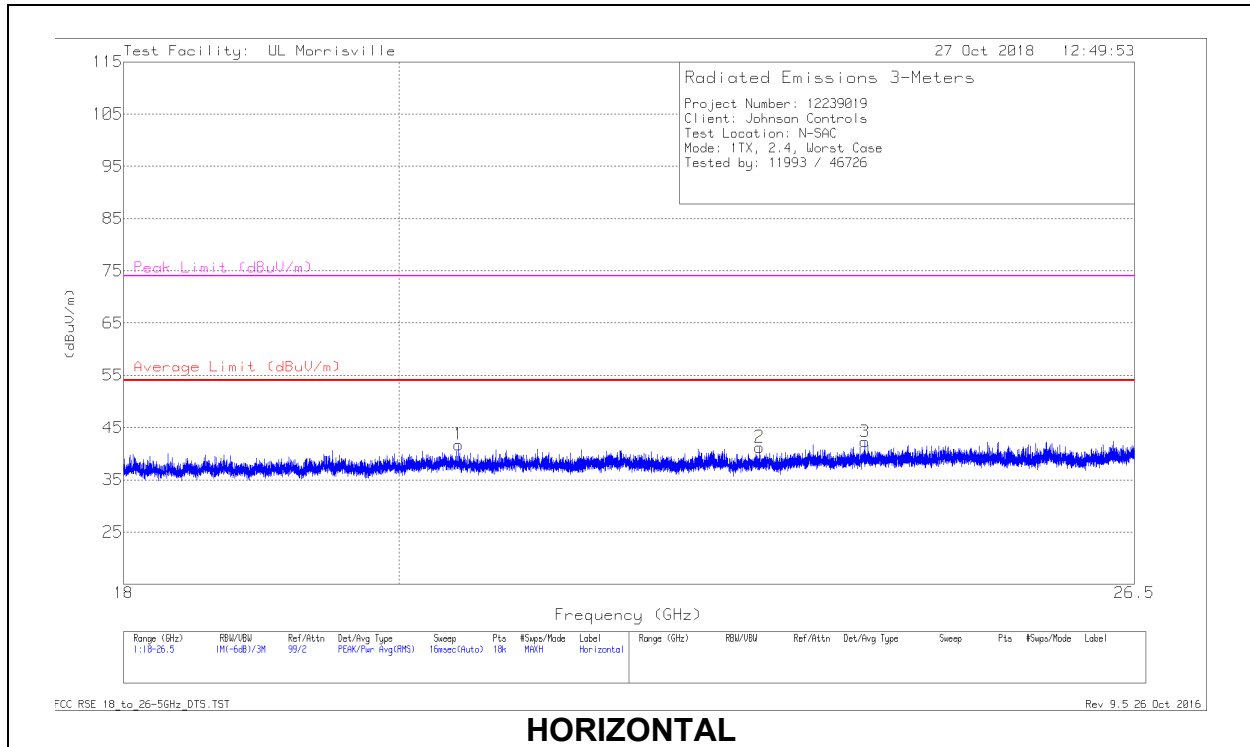


VERTICAL

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0073 ACF (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	216.0021	41.53	Pk	17.4	-30	28.93	46.02	-17.09	0-360	102	H
2	240.0052	43.55	Pk	18.2	-29.9	31.85	46.02	-14.17	0-360	199	H
5	240.0052	39.77	Pk	18.2	-29.9	28.07	46.02	-17.95	0-360	199	V
3	525.1423	37.39	Pk	24.3	-28.2	33.49	46.02	-12.53	0-360	199	H
6	526.8425	40.85	Pk	24.4	-28.2	37.05	46.02	-8.97	0-360	102	V
4	788.7765	36.31	Pk	27.8	-27.4	36.71	46.02	-9.31	0-360	102	H
7	790.7768	36.19	Pk	27.8	-27.3	36.69	46.02	-9.33	0-360	199	V

Pk - Peak detector

10.2.3. 18-26 GHz SPURIOUS EMISSIONS



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0076 AF (dB/m)	Amp/Cbl (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 20.461	48.36	Pk	33.1	-39.7	0	41.76	54	-12.24	74	-32.24	0-360	102	H
2	* ** 22.957	46.85	Pk	33.8	-39.4	0	41.25	54	-12.75	74	-32.75	0-360	299	H
3	* ** 23.901	47.31	Pk	34	-39	0	42.31	54	-11.69	74	-31.69	0-360	149	H
4	* ** 19.559	47.55	Pk	32.7	-39.7	0	40.55	54	-13.45	74	-33.45	0-360	102	V
5	* ** 22.12	46.98	Pk	33.7	-39.2	0	41.48	54	-12.52	74	-32.52	0-360	252	V
6	* ** 23.991	47.14	Pk	34	-38.9	0	42.24	54	-11.76	74	-31.76	0-360	102	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

11. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

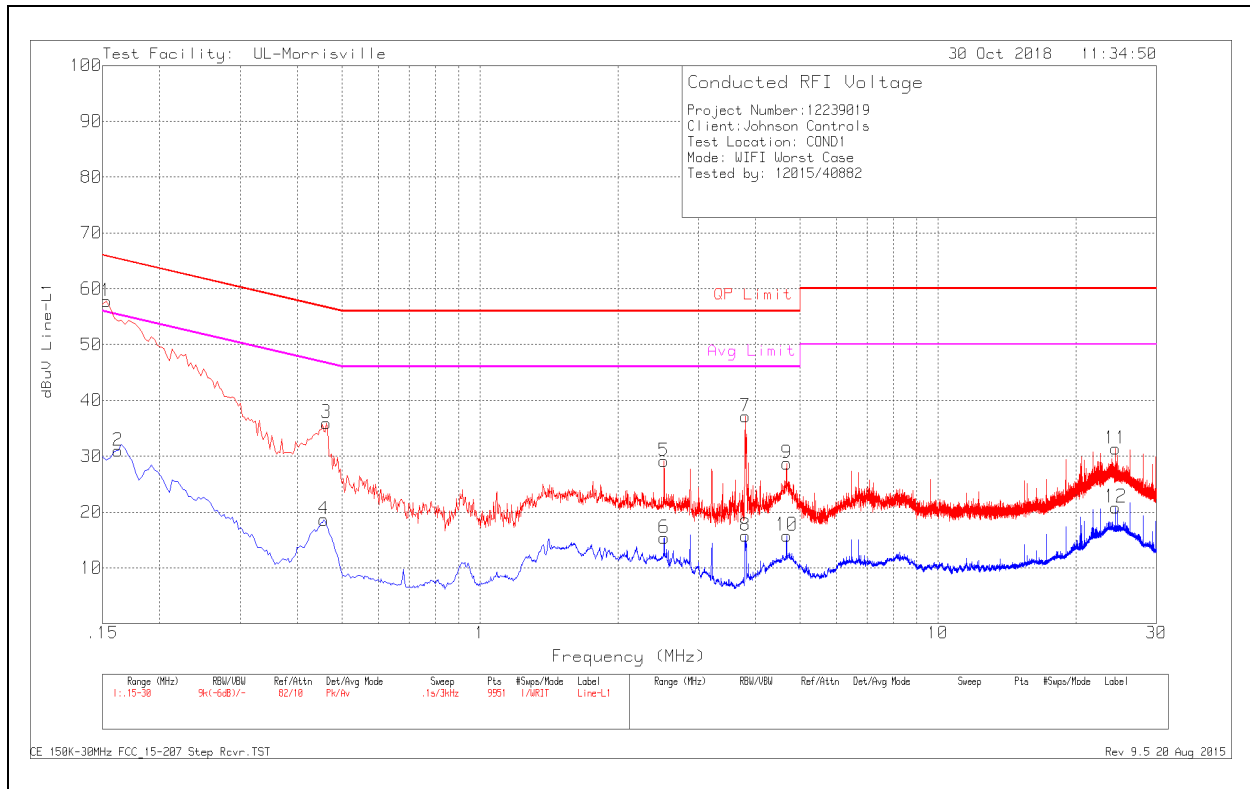
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

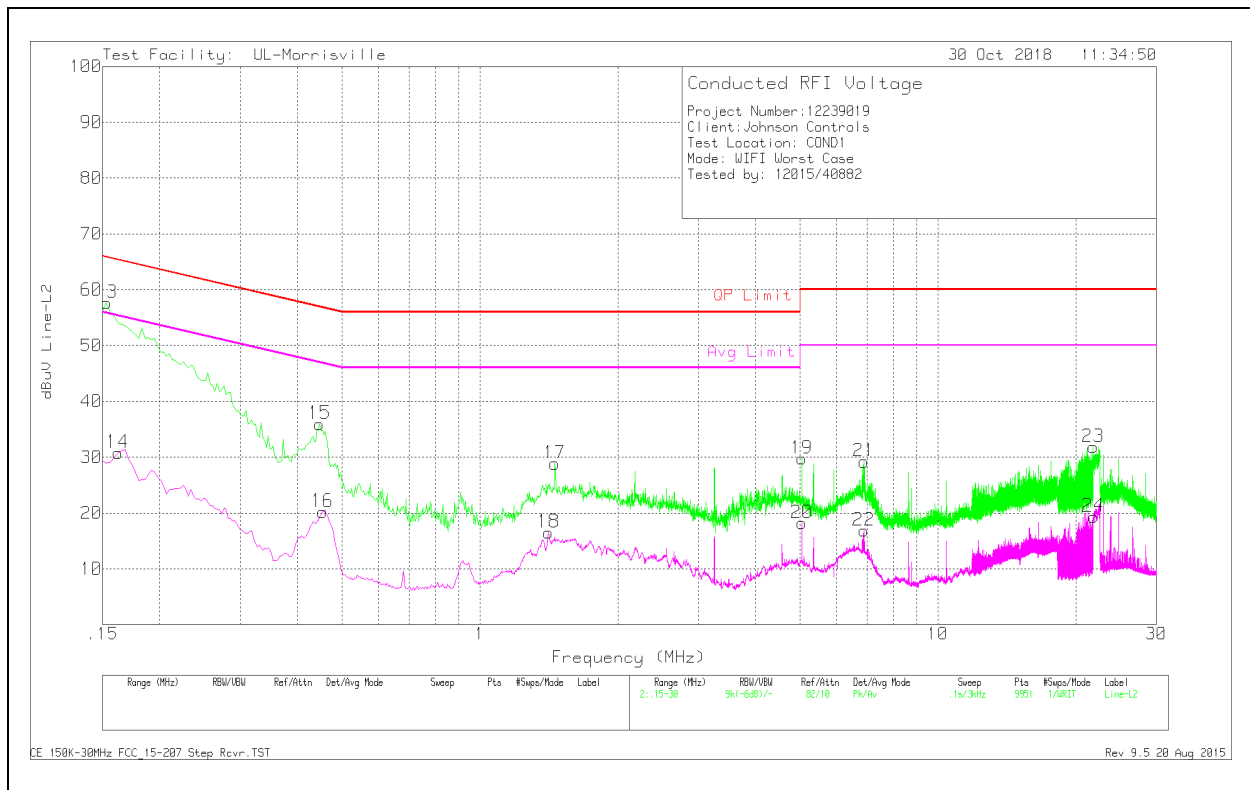
11.1.1. AC Power Line Host

LINE 1 RESULTS



Range 1: Line-L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit	Margin (dB)	Avg Limit	Margin (dB)
1	.153	47.56	Pk	.2	10	57.76	65.84	-8.08	-	-
2	.162	20.76	Av	.2	10	30.96	-	-	55.36	-24.4
3	.462	25.97	Pk	0	10	35.97	56.66	-20.69	-	-
4	.456	8.65	Av	0	10	18.65	-	-	46.77	-28.12
5	2.523	19.03	Pk	0	10.1	29.13	56	-26.87	-	-
6	2.526	5.27	Av	0	10.1	15.37	-	-	46	-30.63
7	3.798	27.01	Pk	0	10.1	37.11	56	-18.89	-	-
8	3.798	5.67	Av	0	10.1	15.77	-	-	46	-30.23
9	4.677	18.63	Pk	0	10.1	28.73	56	-27.27	-	-
10	4.674	5.69	Av	0	10.1	15.79	-	-	46	-30.21
11	24.459	20.59	Pk	.2	10.6	31.39	60	-28.61	-	-
12	24.456	10.05	Av	.2	10.6	20.85	-	-	50	-29.15

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit	Margin (dB)	Avg Limit	Margin (dB)
13	.153	47.46	Pk	.2	10	57.66	65.84	-8.18	-	-
14	.162	20.59	Av	.2	10	30.79	-	-	55.36	-24.57
15	.447	25.86	Pk	.1	10	35.96	56.93	-20.97	-	-
16	.453	10.12	Av	.1	10	20.22	-	-	46.82	-26.6
17	1.458	18.86	Pk	0	10	28.86	56	-27.14	-	-
18	1.413	6.54	Av	0	10	16.54	-	-	46	-29.46
19	5.049	19.43	Pk	.1	10.2	29.73	60	-30.27	-	-
20	5.046	7.94	Av	.1	10.2	18.24	-	-	50	-31.76
21	6.9	18.93	Pk	.1	10.2	29.23	60	-30.77	-	-
22	6.888	6.58	Av	.1	10.2	16.88	-	-	50	-33.12
23	21.837	21.08	Pk	.2	10.6	31.88	60	-28.12	-	-
24	21.849	8.57	Av	.2	10.6	19.37	-	-	50	-30.63

12. SETUP PHOTOS

Please refer to R12239019-EP4 for setup photos

END OF TEST REPORT