EMC Test Report

Project Number: 4227659

Report Number: 4227659EMC01 **Revision Level:** 0

Client: Technicolor Connected Home USA LLC

Equipment Under Test: Channel Master Android TV

Model: CM-7600

FCC ID: G95-CM-7600

IC ID: 431C-DWT765CHA

Applicable Standards: ANSI C63.10: 2013 (FCC Part 15 Subpart C, § 15.247)
RSS-247, Issue 2
RSS-GEN Issue 4

Report issued on: 20 December 2017

Test Result: Compliant

Tested by: _____
Jeremy Pickens, Senior EMC Engineer

Reviewed by: _____
David Schramm, Operations Manager

Remarks: This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

Table of Contents

1 Summary of Test Results

Test Description	Test Specification		Test Result
Bandwidth	15.247(d)	RSS-247 S5.2 (1) RSS-GEN S6.6	Compliant
Transmitter Output Power	15.247(b)(3)	RSS-247 S5.4 (4)	Compliant
Power Spectral Density	15.247(e)	RSS-247 S5.2 (2)	Compliant
Conducted Spurious Emissions / Band edge	15.247(d)	RSS-247 S5.5	Compliant
Radiated Spurious Emissions / Restricted Bands	15.35(b),15.209	RSS-GEN S6.13 RSS-GEN S8.10	Compliant
Antenna Requirement	15.203	RSS-GEN S8.3	Compliant (1)
AC Powerline Conducted Emission	15.107, 15.207	RSS-GEN S8.8	Compliant

1) Internal PCB trace antenna

1.1 *Modifications Required for Compliance*

None

2 General Information

2.1 *Client Information*

Name:	Technicolor Connected Home USA LLC
Address:	5030 Sugarloaf Parkway Building 6
City, State, Zip, Country:	Lawrenceville, GA 30044, USA

2.2 *Test Laboratory*

Name:	SGS North America, Inc.
Address:	620 Old Peachtree Road NW, Suite 100
City, State, Zip, Country:	Suwanee, GA 30024, USA
Accrediting Body:	A2LA
Type of lab:	Testing Laboratory
Certificate Number:	3212.01

2.3 *General Information of EUT*

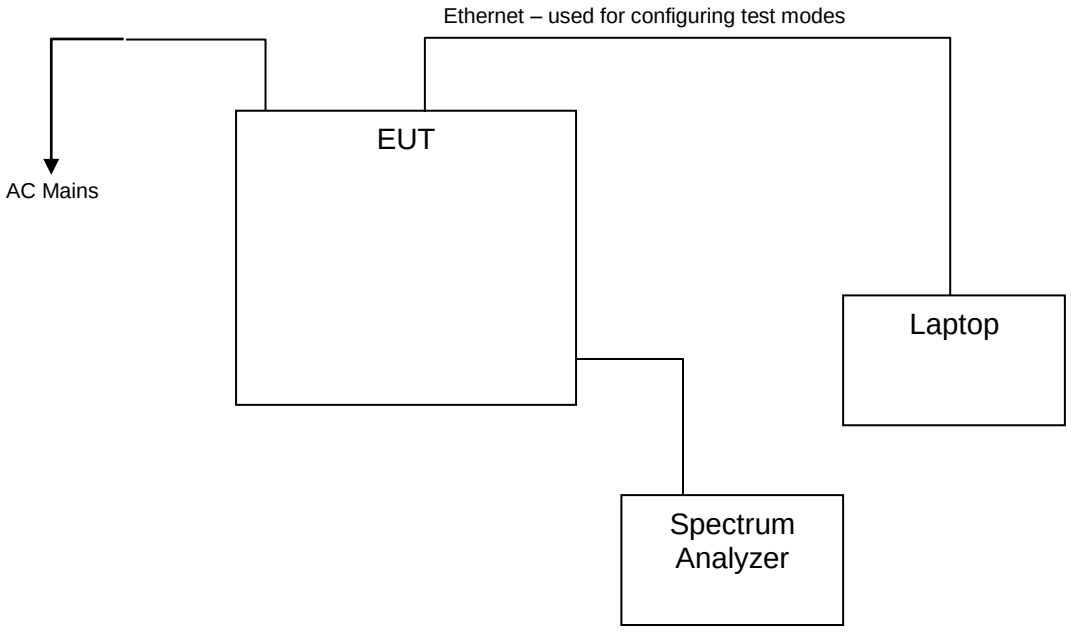
Type of Product:	Channel Master Android TV
Model Number:	CM-7600
Serial Number:	211930007386700018
Frequency Range:	2400-2483.5MHz
Data Modes:	802.11b, 802.11g, 802.11n (HT20)
Antenna:	2x Internal PCB Trace, Cross-Polarized #1 3.5 dBi Max Gain #2 2.4 dBi Max Gain
Rated Voltage:	12Vdc (Supplied via 100-120Vac, 60Hz AC Adapter)
Test Voltage:	12Vdc, (120Vac, 60Hz)
Sample Received Date:	30 October 2017
Dates of testing:	08 November - 08 December 2017

2.4 *Operating Modes and Conditions*

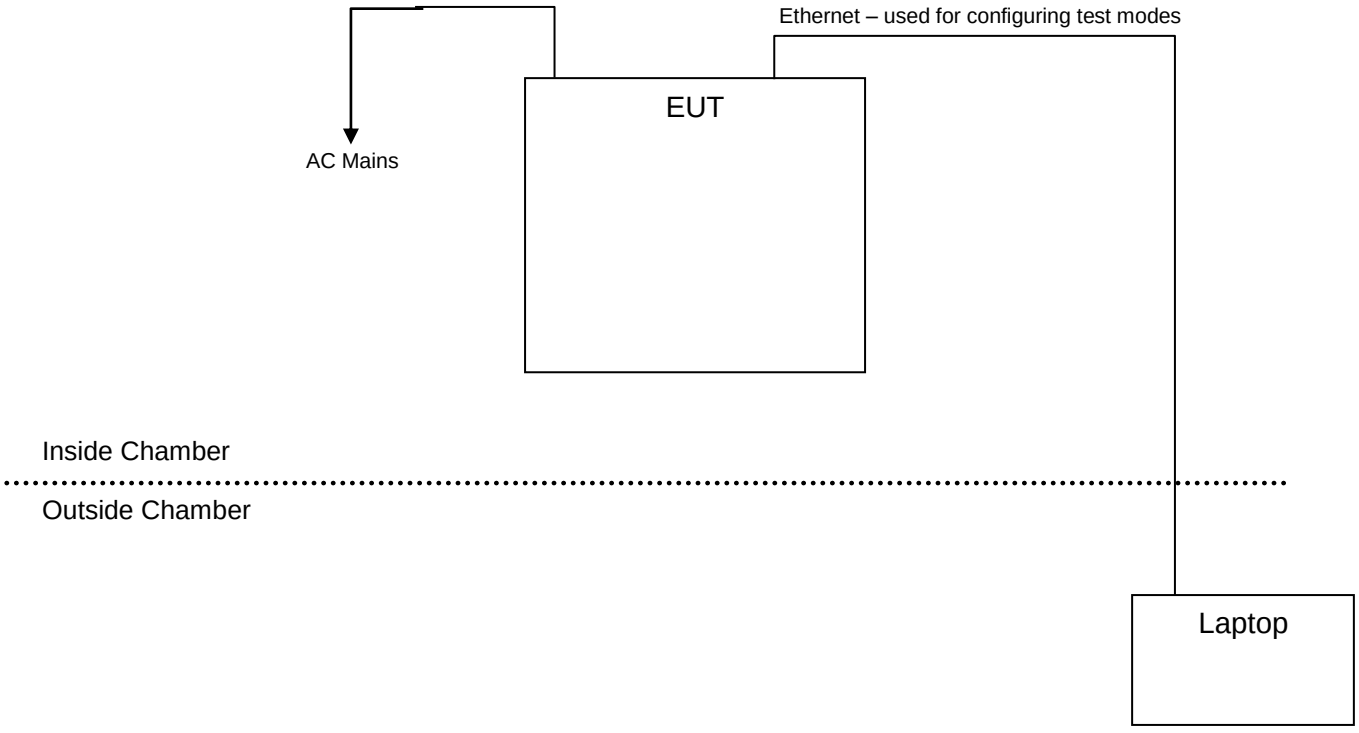
For spurious emissions measurements, only the worst-case mode with respect to peak power was investigated: 802.11b, 1Mbps. Investigations covered the low, middle, and high channels in the 2400-2483.5MHz band.

Continuous traffic was generated using test commands. Where the duty cycle measured below 99% and an RMS detector was employed, corrections of 10*LOG(1/D) were applied according to KDB publication 558074 D01 DTS Meas Guidance v04.

2.5 *EUT Connection Block Diagram – Conducted Measurements*



2.6 *EUT Connection Block Diagram – Radiated Measurements*



2.7 *System Configurations*

Device reference	Manufacturer	Description	Model Number	Serial Number
A	Technicolor	Channel Master Android TV	CM-7600	211930007386700018
B	Lenovo	ThinkPad Laptop	T400	276731U

3 Bandwidth

3.1 *Test Result*

Test Description	Test Specification		Test Result
6 dB bandwidth / 99% OBW	15.247(d)	RSS-247 S5.2 (1) RSS-GEN S6.6	Compliant

3.2 *Test Method*

The procedures from ANSI C63.10: 2013 clause 11.8 and 558074 D01 DTS Meas Guidance v04 were used to determine the 6 dB bandwidth and 99% OBW.

3.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.8 °C
Relative Humidity: 38.5 %

3.4 *Test Equipment*

Test End Date: 13-Nov-2017 Tester: JOP

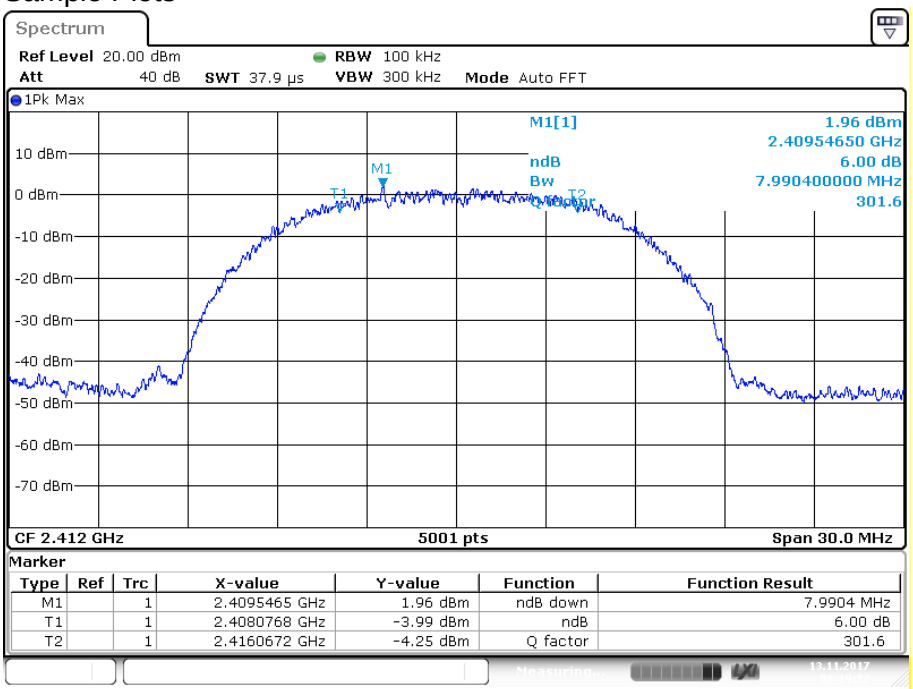
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

3.5 *Test Data*

Protocol	Channel	Data Rate	6dB Bandwidth (MHz)	Occupied Bandwidth (99%) (MHz)
802.11b	1	11 Mbps	7.990	13.113
802.11b	6	11 Mbps	7.968	13.057
802.11b	11	11 Mbps	7.948	13.047
802.11g	1	54 Mbps	16.157	16.347
802.11g	6	54 Mbps	16.33	16.327
802.11g	11	54 Mbps	16.341	16.326
802.11n (HT20)	1	MCS7	17.536	17.526
802.11n (HT20)	6	MCS7	17.512	17.532
802.11n (HT20)	11	MCS7	16.933	17.582

Sample Plots



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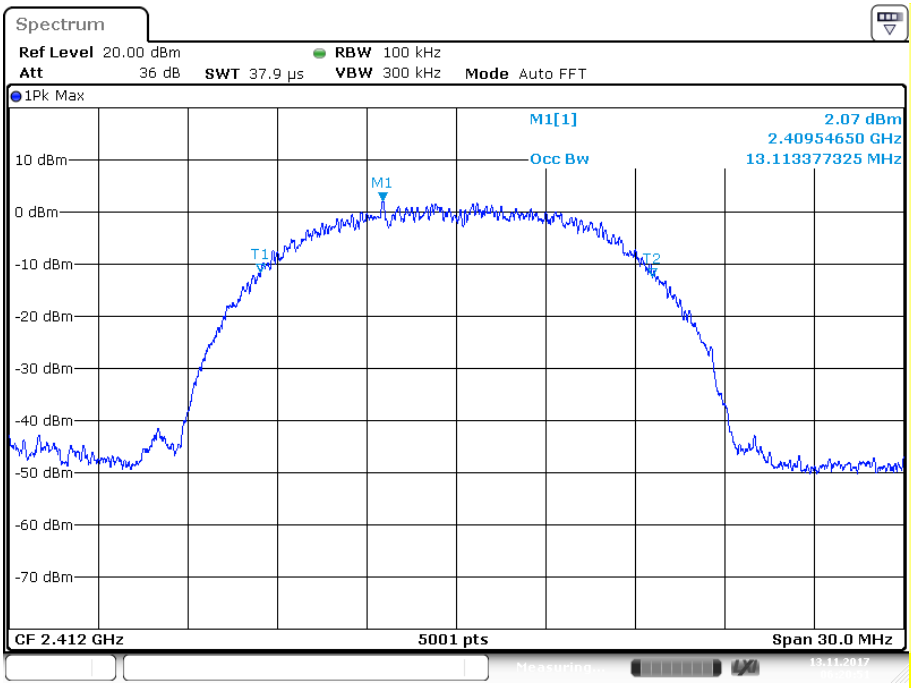

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4 Output Power

4.1 *Test Result*

Test Description	Test Specification		Test Result
Peak Output Power	15.247(b) (3)	RSS-247 S5.4 (4)	Compliant

4.2 *Test Method*

Fundamental power measurements were recorded using the peak power procedures from ANSI C63.10: 2013 clause 11.9 and KDB 558074 D01 Measurement Guidance v04. The lowest data rate for each modulation was found to be the worst-case.

Limit

(3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. For using antennas with greater than 6dBi of gain, the limit is reduced in dB by the amount the gain exceeds 6dBi (e.g. for a 7.4dBi antenna, the limit is reduced from 30dBm to 28.6dBm)

4.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 22.8 °C
Relative Humidity: 38.5 %

4.4 *Test Equipment*

Test End Date: 13-Nov-2017 Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

4.5 *Test Data*

802.11b 20MHz						
Frequency (MHz)	Channel (WLAN)	Chain 0 (dBm)	Chain 1 (dBm)	Total Power (dBm)	Limit (dBm)	Margin (dB)
2412	1	14.1	13.9	17.02	30	-13.0
2437	6	14	14.4	17.22	30	-12.78
2462	11	14.2	14.3	17.27	30	-12.73

802.11g 20MHz						
Frequency (MHz)	Channel (WLAN)	Chain 0 (dBm)	Chain 1 (dBm)	Total Power	Power Limit dBm	Margin
2412	1	13.7	13.3	16.52	30	-13.48
2437	6	13.7	13	16.38	30	-13.62
2462	11	13.5	13.3	16.42	30	-13.58

802.11n 20MHz						
Frequency (MHz)	Channel (WLAN)	Chain 0 (dBm)	Chain 1 (dBm)	Total Power	Power Limit dBm	Margin
2412	1	13.5	13.4	16.47	30	-13.53
2437	6	13.7	13.4	16.57	30	-13.43
2462	11	13.9	13.4	16.67	30	-13.33

Antenna Gains are 3.5dBi and 2.4dBi respectively (Cross-Polarized)

5 Power Spectral Density

5.1 *Test Result*

Test Description	Test Specification		Test Result
Power Spectral Density	15.247(e)	RSS-247 S5.2 (2)	Compliant

5.2 *Test Method*

Fundamental power measurements were recorded using the peak PSD procedures from ANSI C63.10: 2013 clause 11.10 and KDB 558074 D01 Measurement Guidance v04. The lowest data rate for each modulation was determined to be the worst-case.

Limit
The limit is 8 dBm.

5.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions
Temperature: 22.8 °C
Relative Humidity: 38.5 %

5.4 *Test Equipment*

Test End Date: 13-Nov-2017 Tester: JOP

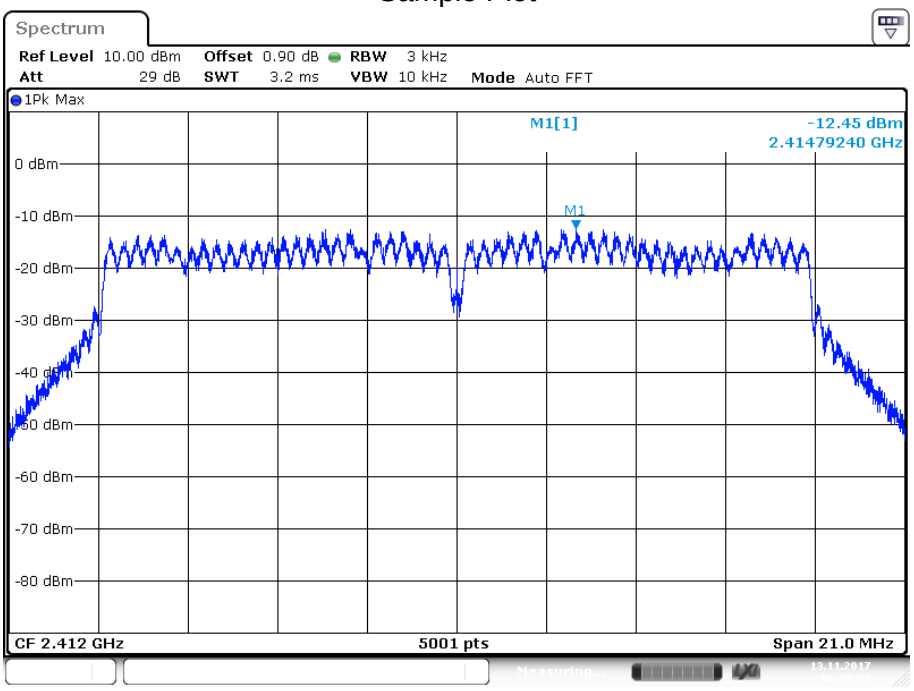
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

5.5 *Test Data*

Protocol	Channel	PSD Chain 0 (dBm/3kHz)	PSD Chain 1 (dBm/3kHz)	PSD Summed (dBm/3kHz)	Limit (dBm)	Margin (dB)
802.11b	1	-10.5	-10.4	-7.4	8	-15.4
802.11b	6	-10.1	-10.3	-7.2	8	-15.2
802.11b	11	-10.3	-10.0	-7.1	8	-15.1
802.11g	1	-12.5	-14.9	-10.5	8	-18.5
802.11g	6	-12.1	-13.3	-9.6	8	-17.6
802.11g	11	-12.7	-13.1	-9.9	8	-17.9
802.11n (HT20)	1	-11.9	-13.9	-9.8	8	-17.8
802.11n (HT20)	6	-11.8	-12.5	-9.1	8	-17.1
802.11n (HT20)	11	-11.5	-12.0	-8.7	8	-16.7

Sample Plot



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6 Conducted Spurious Emissions

6.1 *Test Result*

Test Description	Test Specification		Test Result
Conducted Spurious Emissions	15.247(d)	RSS-247 S5.5	Compliant

6.2 *Test Method*

Spurious emissions in non-restricted frequency bands were recorded using the methods defined in ANSI C63.10: 2013 clause 11.11 and KDB 558074 D01 Measurement Guidance v04.

Lowest, middle, and highest channels were investigated. Only the worst-case (lowest data rate) for each modulation was reported.

Because the peak conducted output power was used to determine compliance with the output power limits, the limit is 20 dB below the maximum in-band peak PSD level in 100 kHz.

6.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions
Temperature: 22.8 °C
Relative Humidity: 38.5 %

6.4 *Test Equipment*

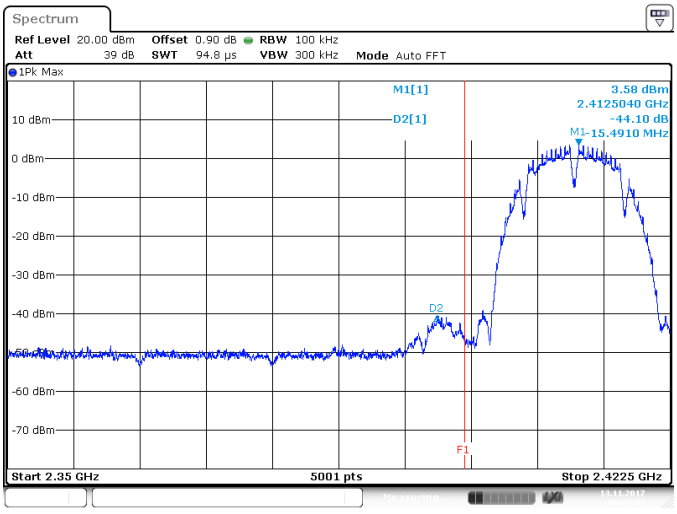
Test End Date: 13-Nov-2017 Tester: JOP

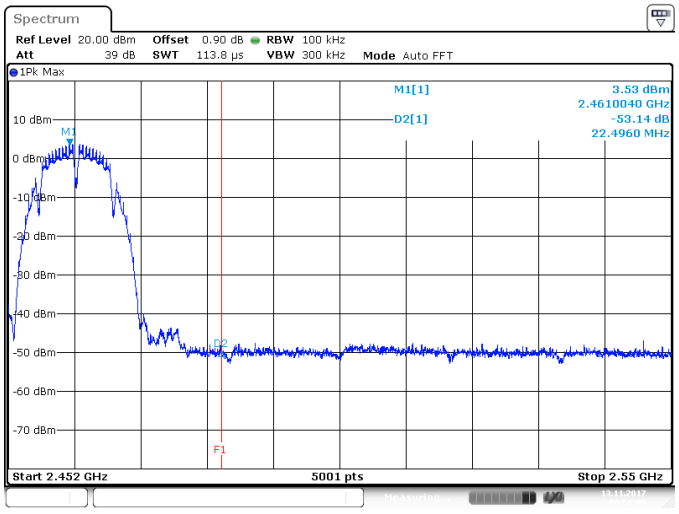
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
SPCTRUM ANALYZER	FSV30	ROHDE & SCHWARZ	S/N: 103106	24-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079823	26-Jul-2018

Note: The equipment calibration period is 1 year.

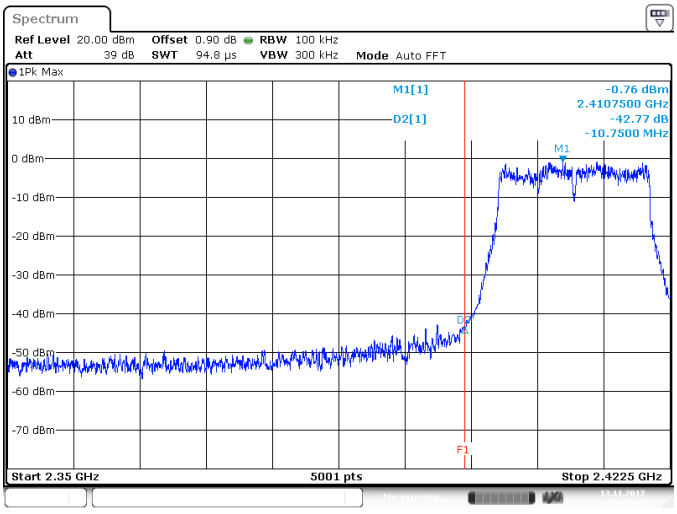
6.5 *Test Data – DTS Bandedge*

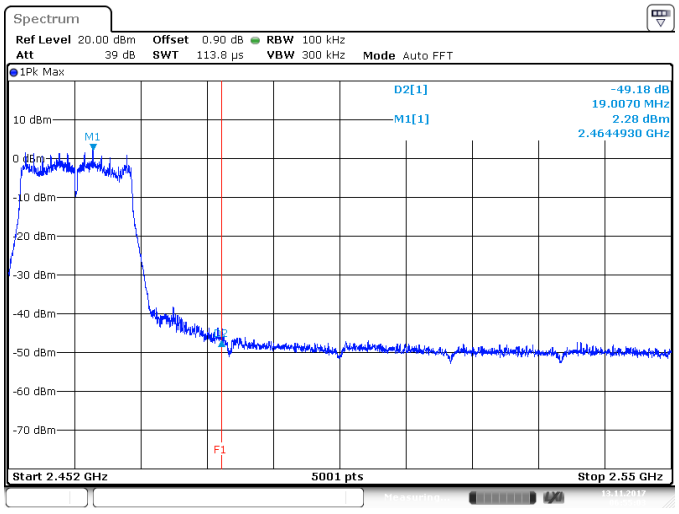
802.11b / 1Mbps
Lower band edge / Upper band edge
Channel 1 / Channel 11



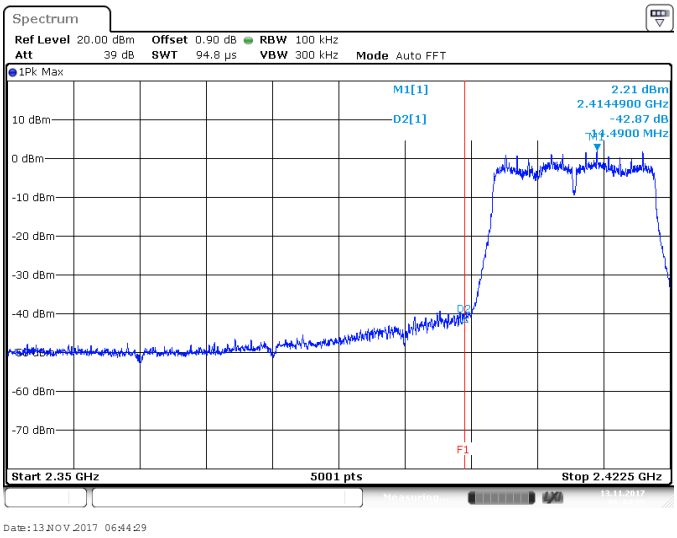


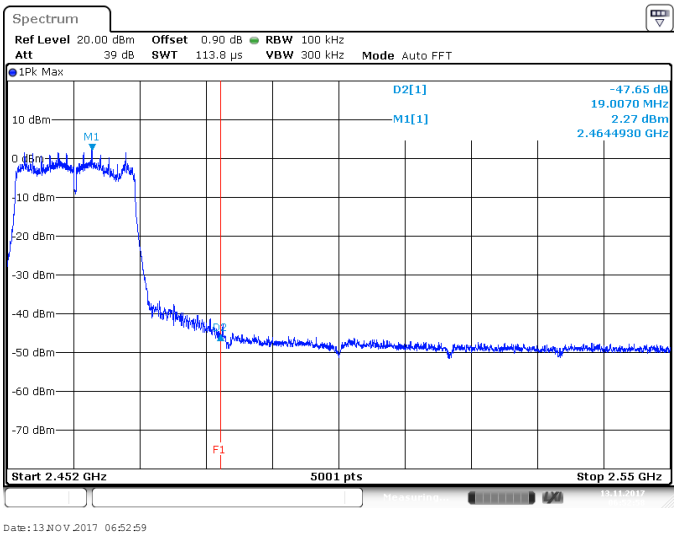
802.11g / 6Mbps
Lower band edge / Upper band edge
Channel 1 / Channel 11





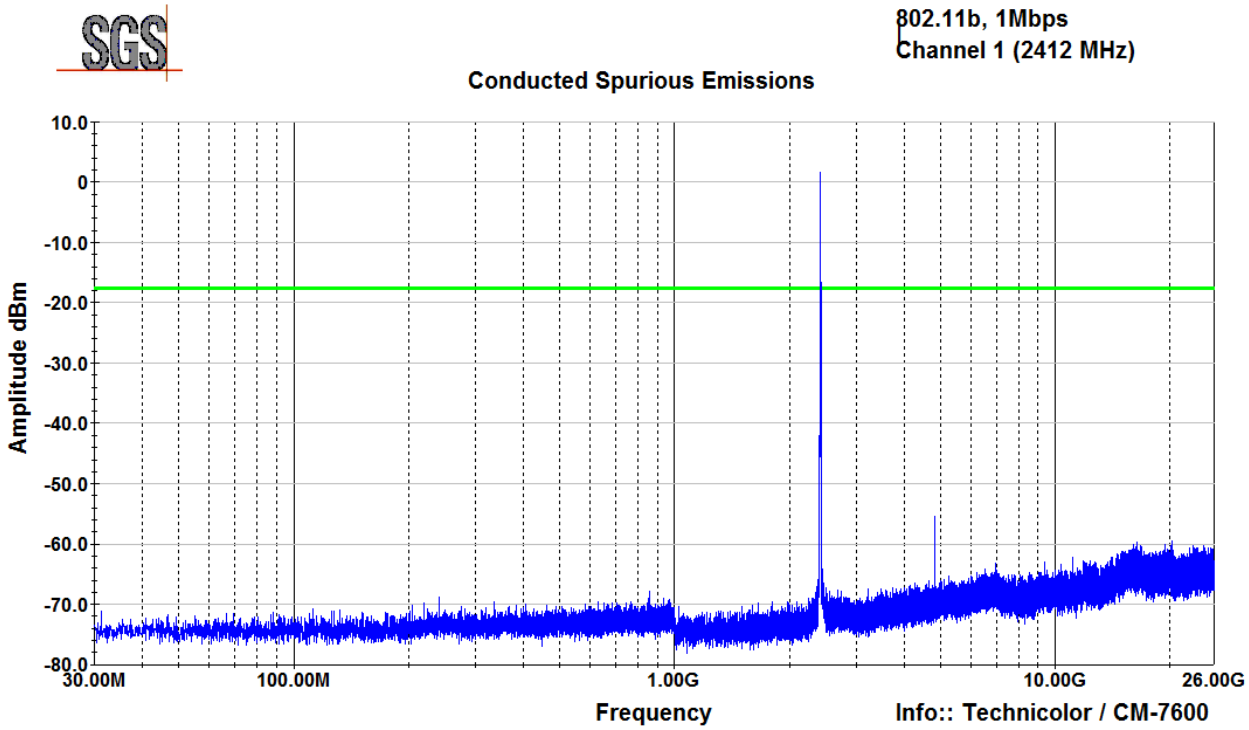
802.11n (HT20) / MCS0
Lower band edge / Upper band edge
Channel 1 / Channel 11



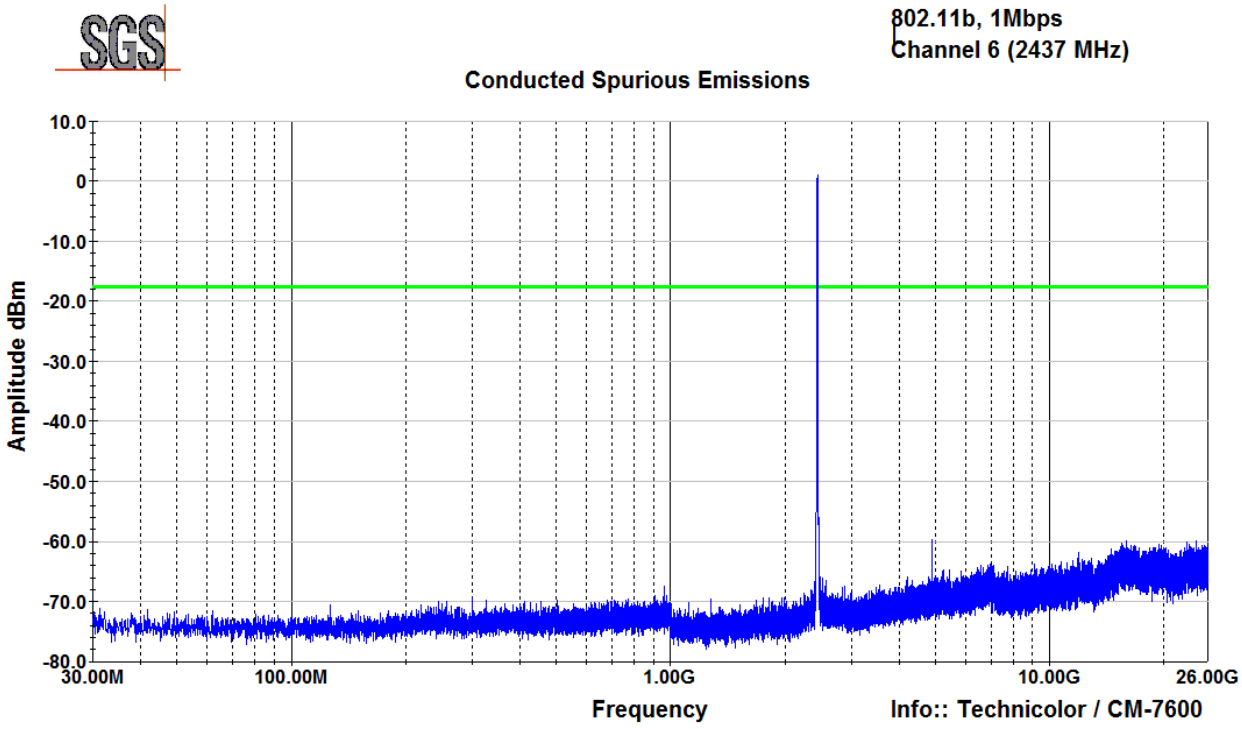


6.6 *Test Data – Conducted Spurious Emissions*

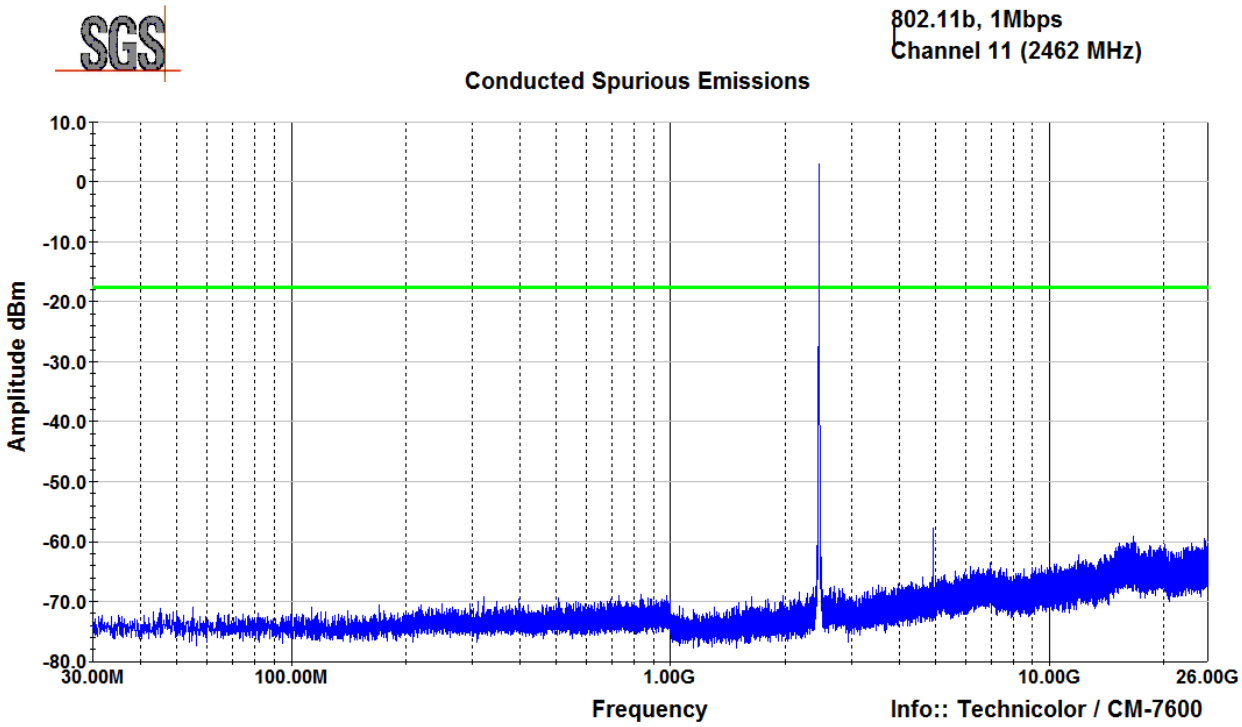
Conducted Spurs –Channel 1



Conducted Spurs –Channel 6



Conducted Spurs –Channel 11



7 Field Strength of Spurious Radiation

7.1 *Test Result*

Test Description	Test Specification		Test Result
Spurious Emissions	15.247 (d) and 15.209	RSS-247 S5.5	Compliant

7.2 *Test Method*

Radiated spurious emissions measurements were recorded with the device configured to transmit at the lowest, middle, and highest channels. The frequency range investigated was up through the 10th harmonic of the fundamental transmit frequency. The methods defined in ANSI C63.10: 2013 were used.

Lowest, middle, and highest channels were investigated. Only the worst-case (802.11b, 1Mbps) was reported except at the restricted band edges where all three modulations were measured.

Test distance:

9k to 30 MHz – Near field prescan to determine if there were any emissions.
30 to 1000 MHz - The EUT to measurement antenna distance was 3 meters
1 to 18 GHz - The EUT to measurement antenna distance was 3 meters
18 to 26 GHz - The EUT to measurement antenna distance was 1 meter

Limits within restricted bands of operation:

Frequency	Limits(1)		Peak Limits dBuV/m
	Microvolts/m	dBuV/m	
30 - 88 MHz	100	40 (2)	--
88 - 216 MHz	150	43.5 (2)	--
216 - 960 MHz	200	46 (2)	--
960 - 1000 MHz	500	54 (2)	--
1 - 40 GHz	500	54 (3)	74

(1) These limits are applicable to emissions outside of the intentional transmit frequency band.
(2) Quasi-peak limit
(3) Average limit

7.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions

Temperature: 25.9 °C
Relative Humidity: 40.4 %

7.4 *Test Equipment*

Test End Date: 7-Dec-2017 Tester: JOP/AF

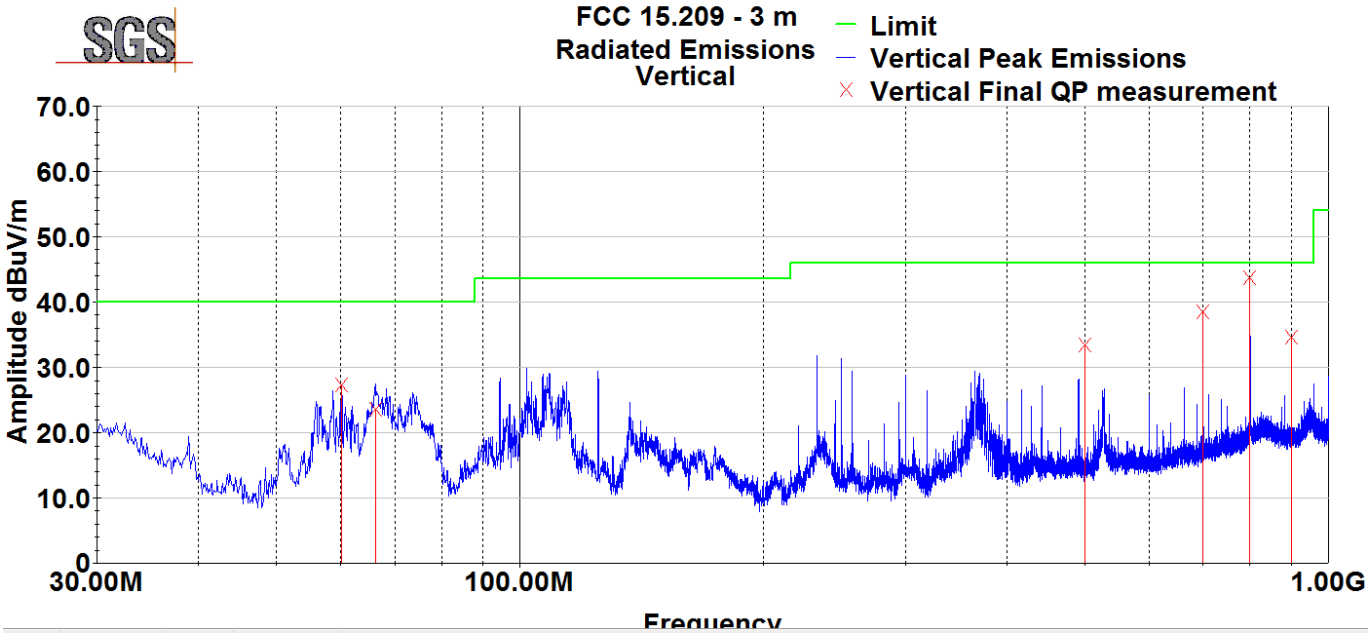
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	25-Jul-2018
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
ANTENNA, BILOG	JB6	SUNOL	B079689	16-Oct-2018
RF CABLE	SF106	HUBER & SUHNER	B079712	24-Jul-2018
RF CABLE	NFS-290-78.7-NFS	FLORIDA RF LABS	B095019	24-Jul-2018
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17017	25-Jul-2018
RF CABLE	SUCOFLEX 100	HUBER & SUHNER	B108523	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	B094463	22-Feb-2018
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079691	27-Jul-2018
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	15003	28-Jul-2018
FILTER, HIGH PASS (>2800MHZ)	HPM50111	MICRO-TRONICS	B085747	27-Jul-2018
HORN(SMALL)	LB-180400-20-C-KF	A-INFO	15007	21-Mar-2018
RF CABLE	SF102	HUBER & SUHNER	B079822	27-Jul-2018
RF CABLE	SF102	HUBER & SUHNER	B079824	26-Jul-2018
LOW NOISE AMPLIFIER	NSP1840-HG	MITEQ	B087572	28-Jul-2018
ANTENNA, LOOP, ACTIVE	6502	ETS LINDGREN	B085752	22-Aug-2018

Note: The equipment calibration period is 1 year.

7.5 *Peak Plots*

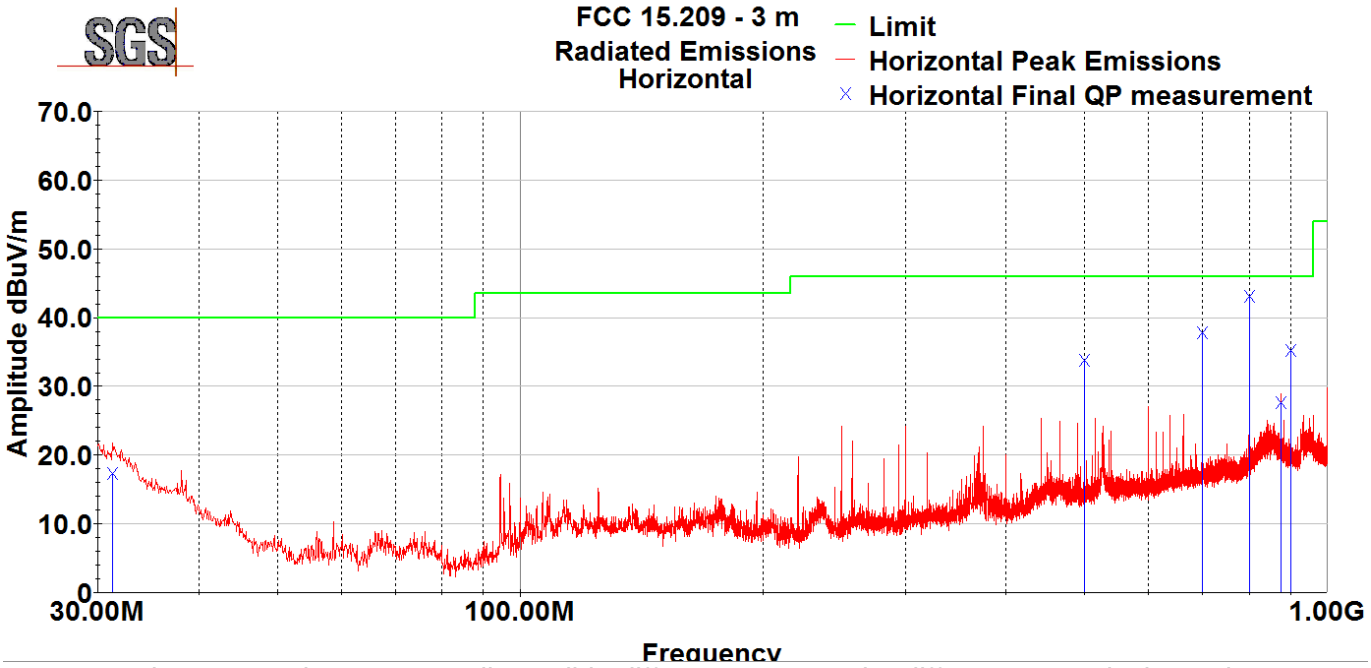
No emissions were detected in the range 9kHz to 30MHz.

Channel 1
Vertical (30-1000MHz)



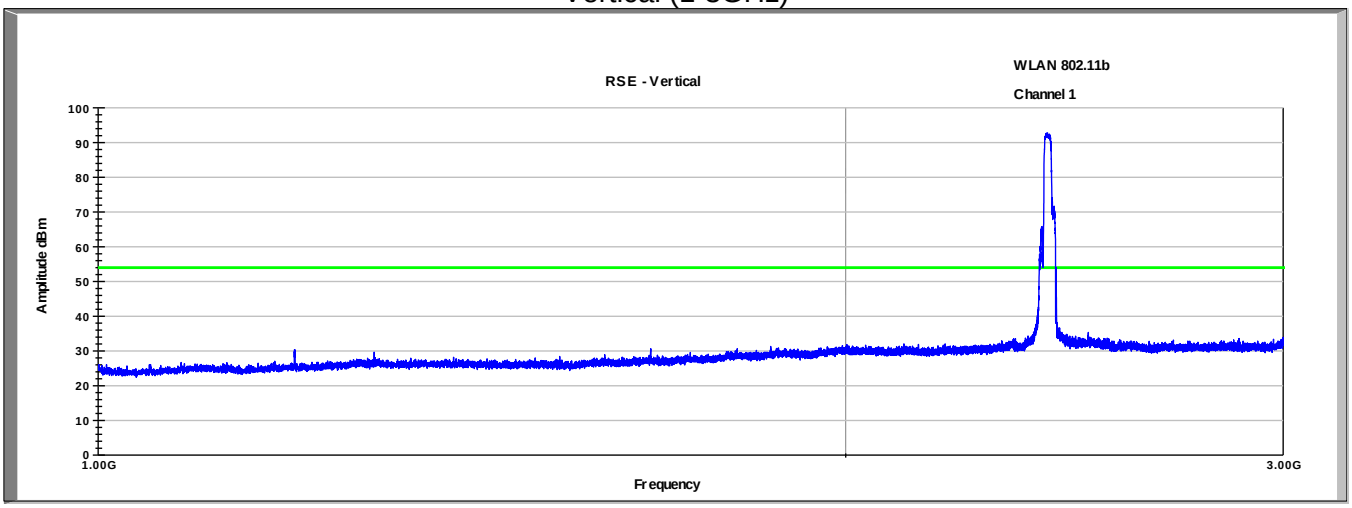
Below 1GHz, there was no discernible difference among the different transmit channels.

Horizontal (30-1000MHz)

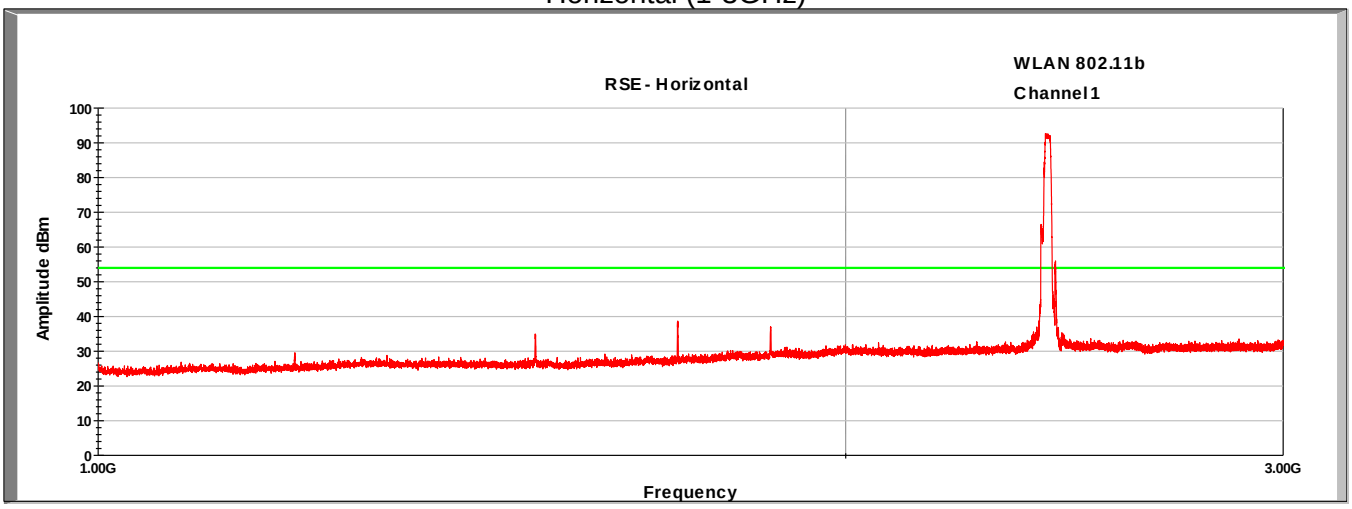


Below 1GHz, there was no discernible difference among the different transmit channels.

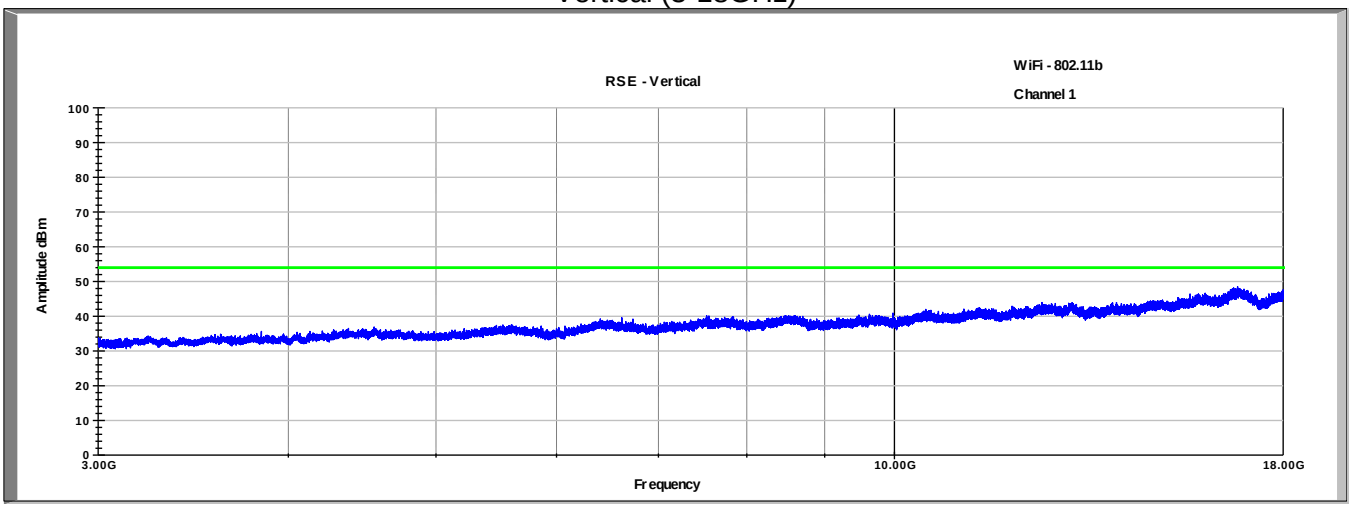
Channel 1
Vertical (1-3GHz)



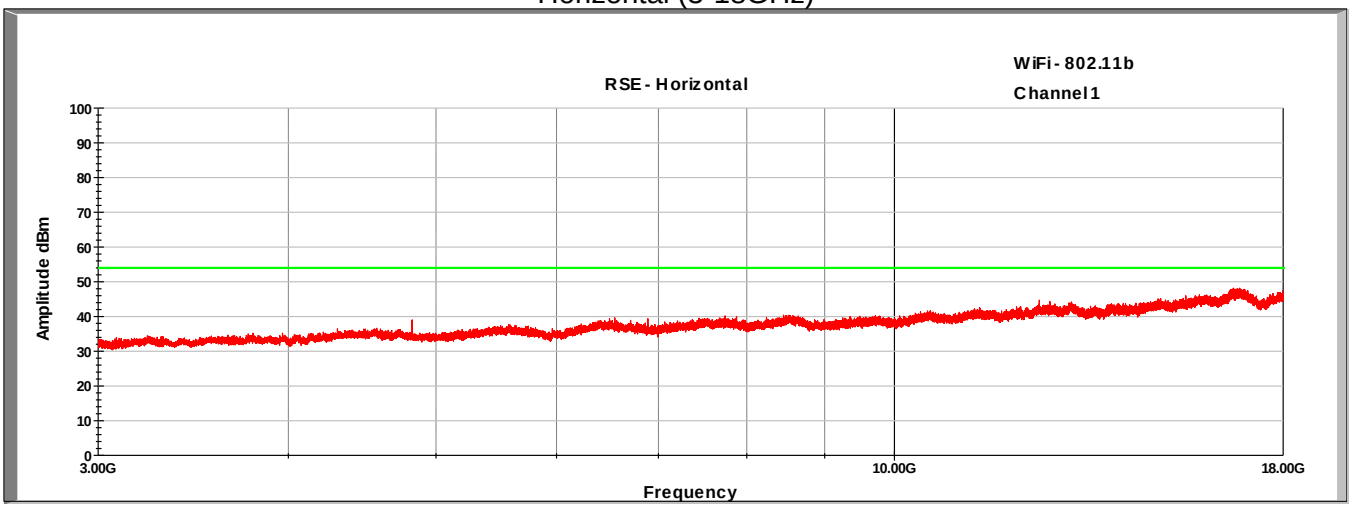
Horizontal (1-3GHz)



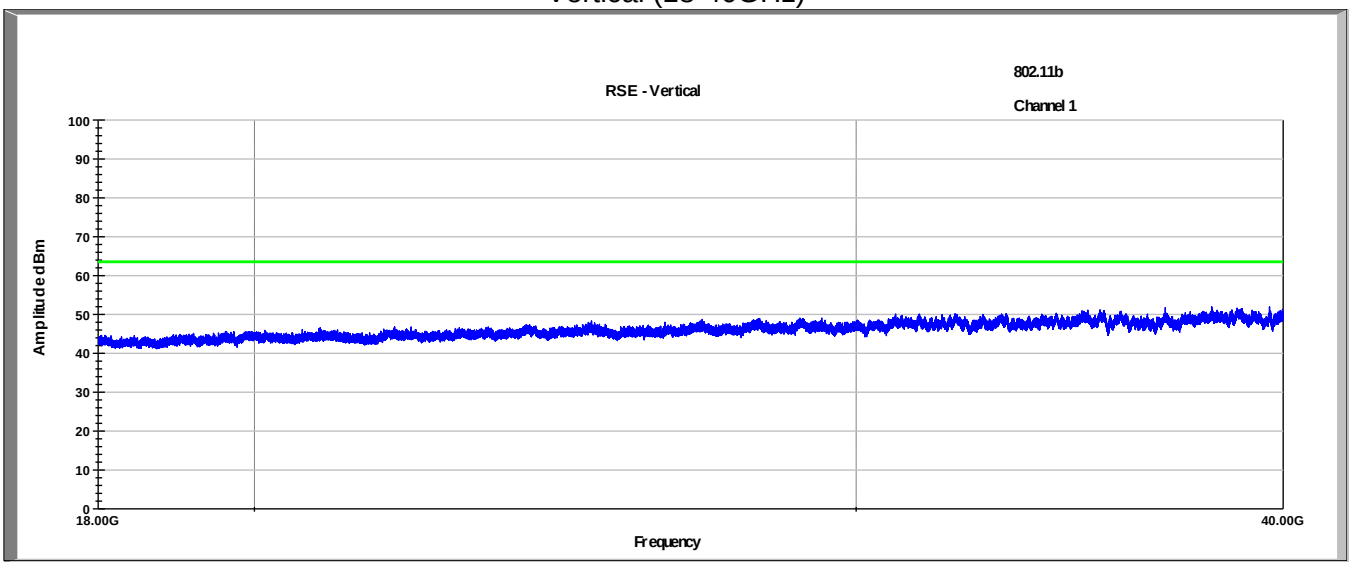
Channel 1
Vertical (3-18GHz)



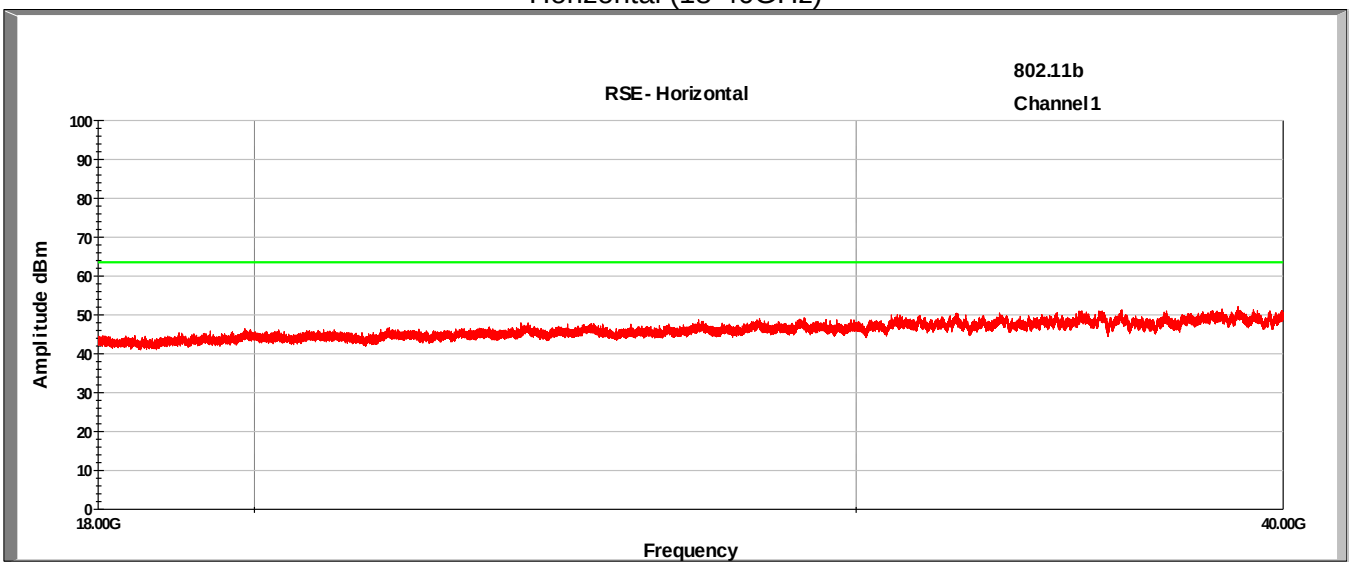
Horizontal (3-18GHz)



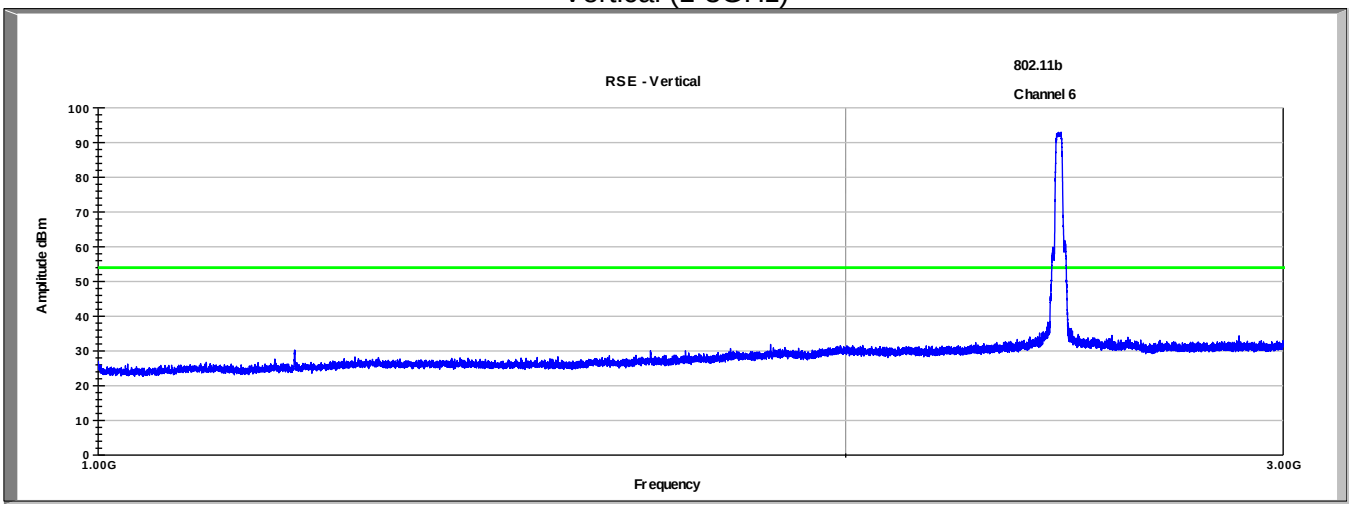
Channel 1
Vertical (18-40GHz)



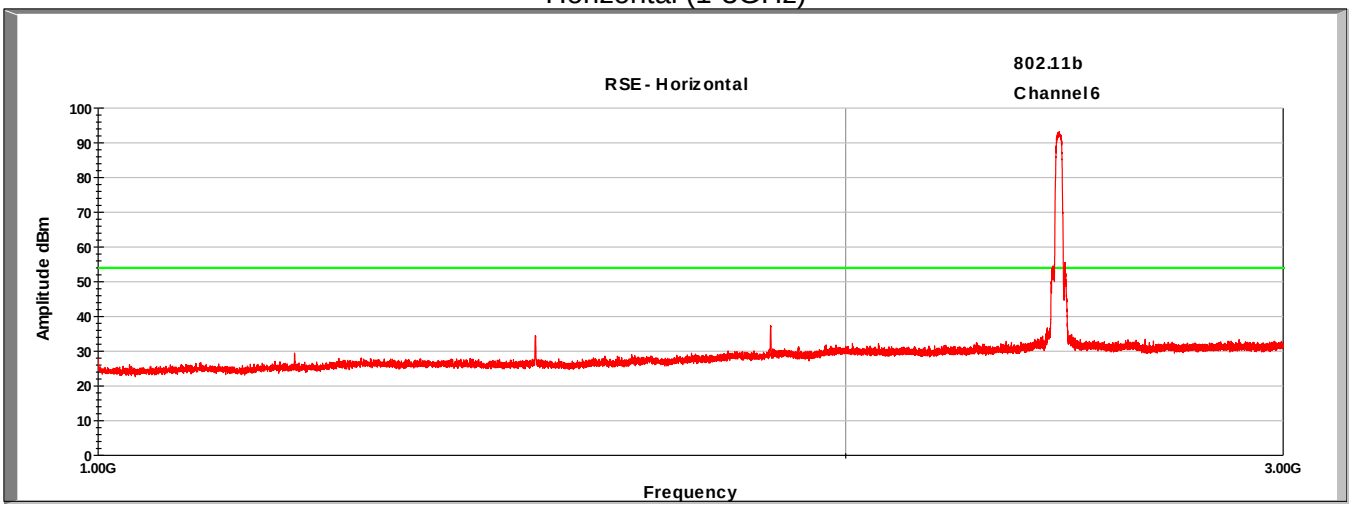
Horizontal (18-40GHz)



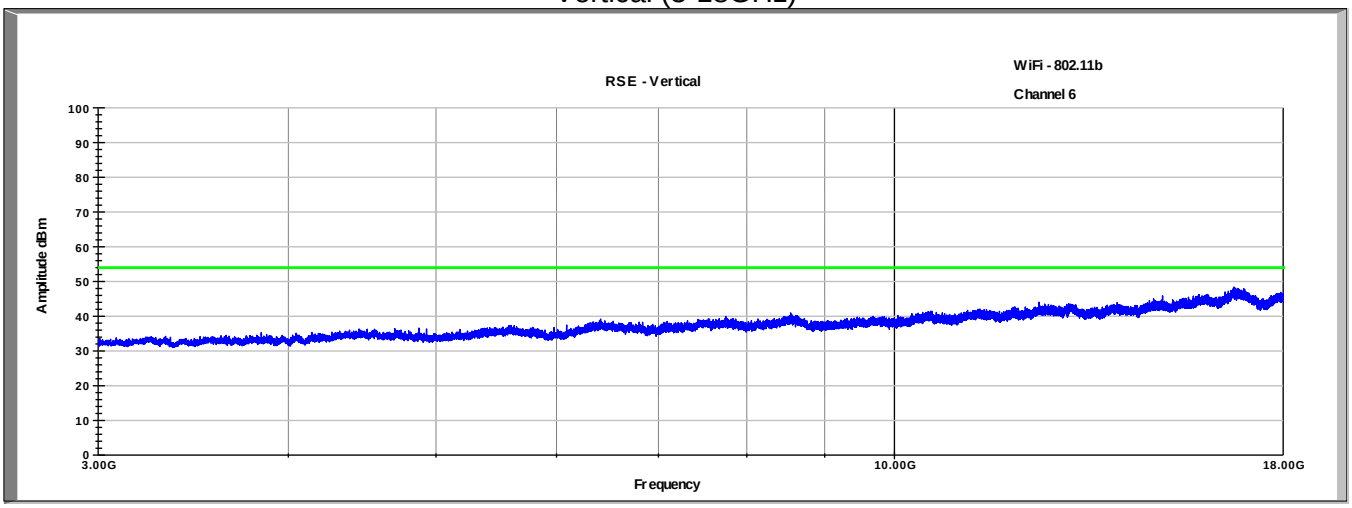
Channel 6
Vertical (1-3GHz)



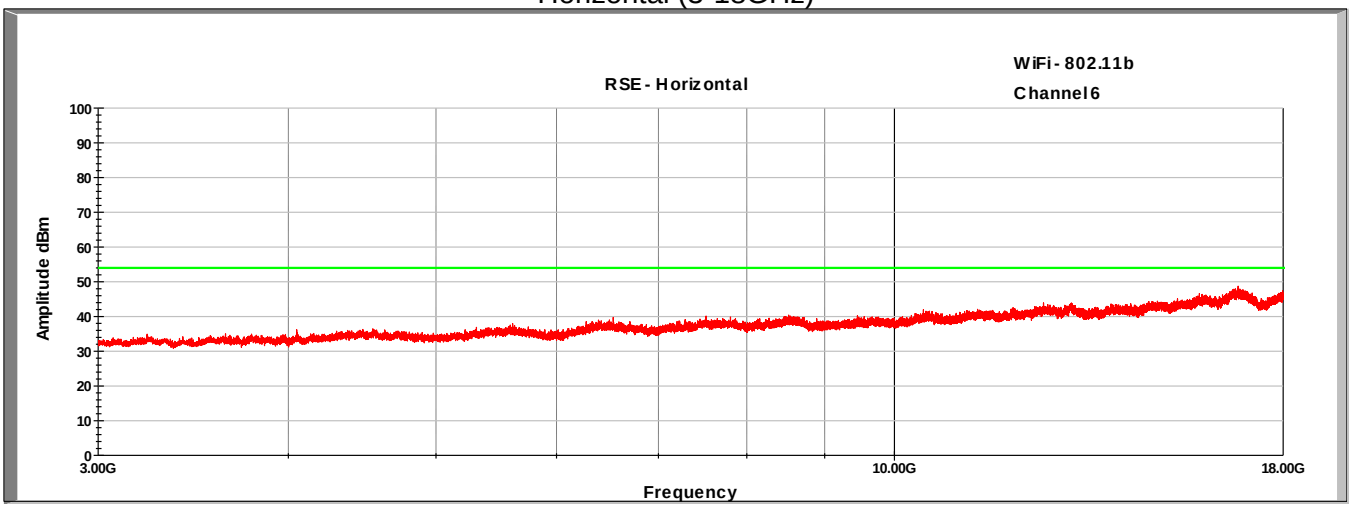
Horizontal (1-3GHz)



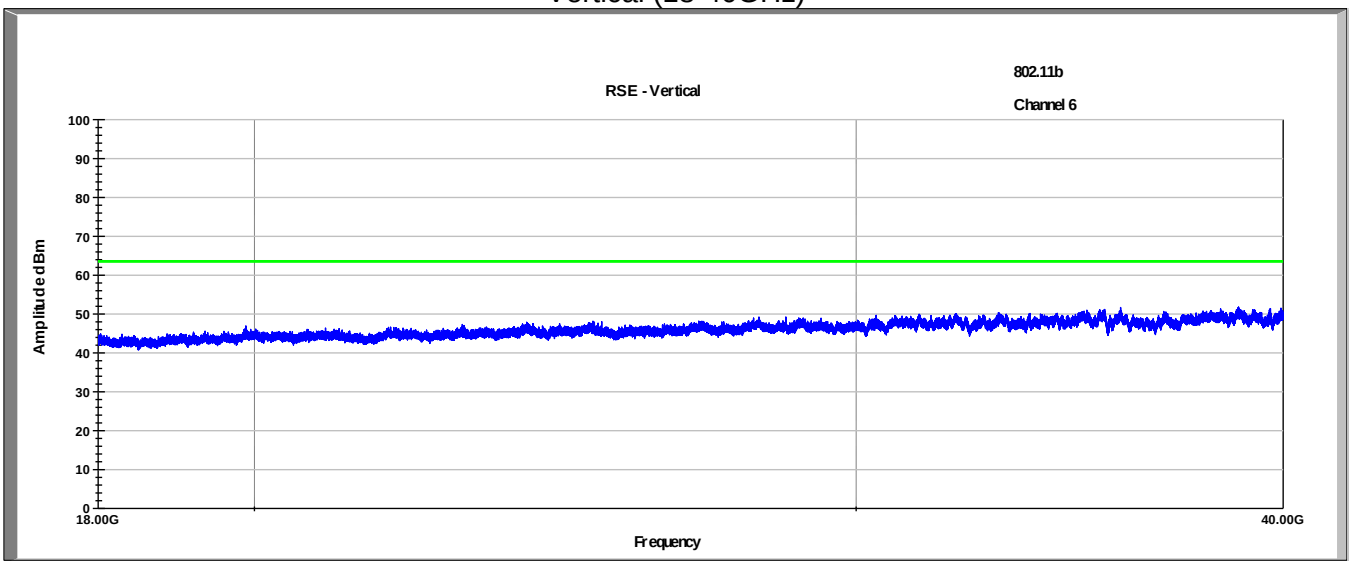
Channel 6
Vertical (3-18GHz)



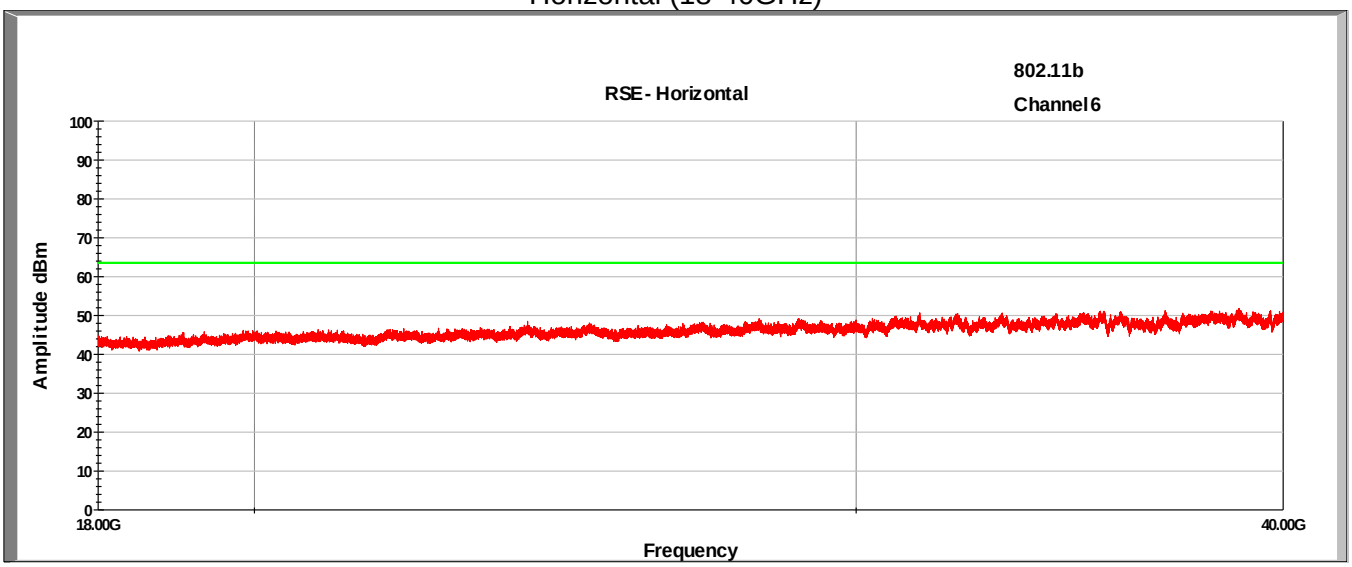
Horizontal (3-18GHz)



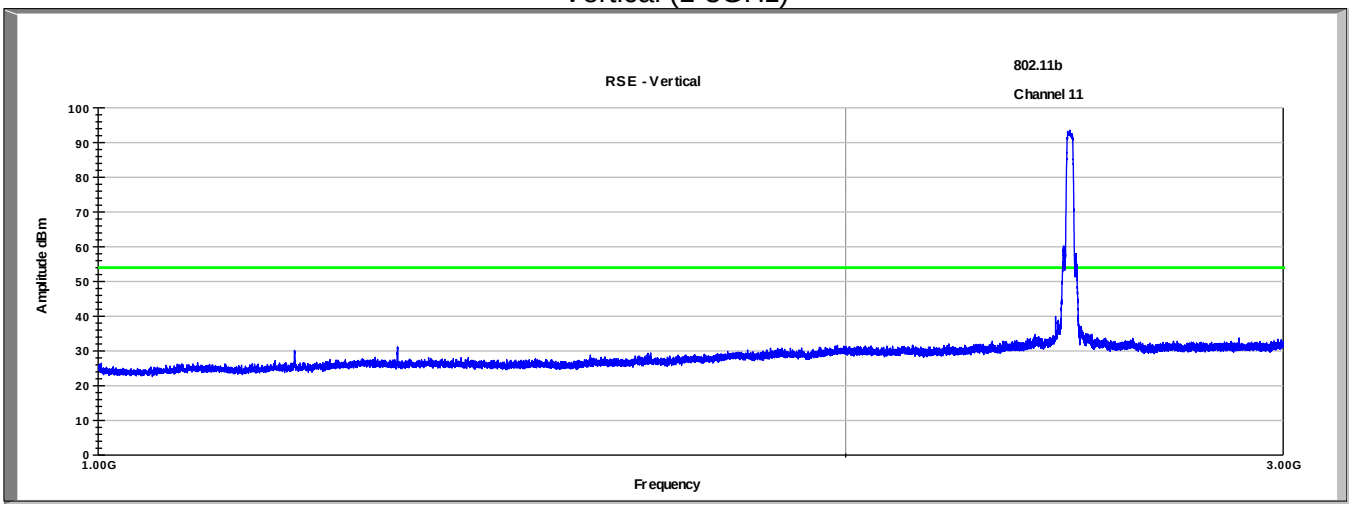
Channel 6
Vertical (18-40GHz)



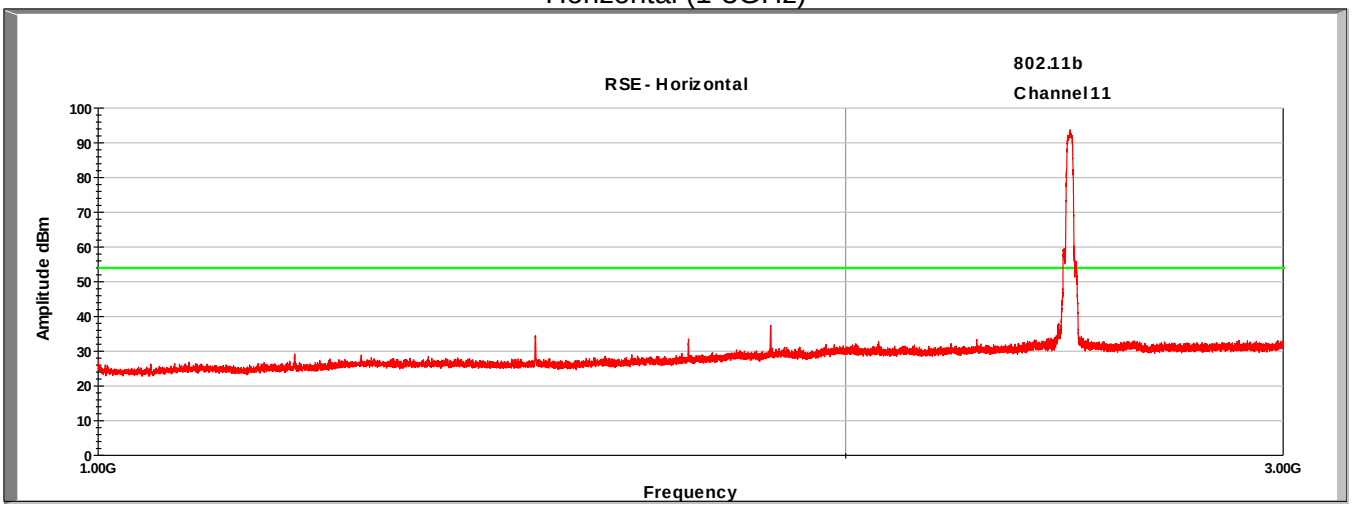
Horizontal (18-40GHz)



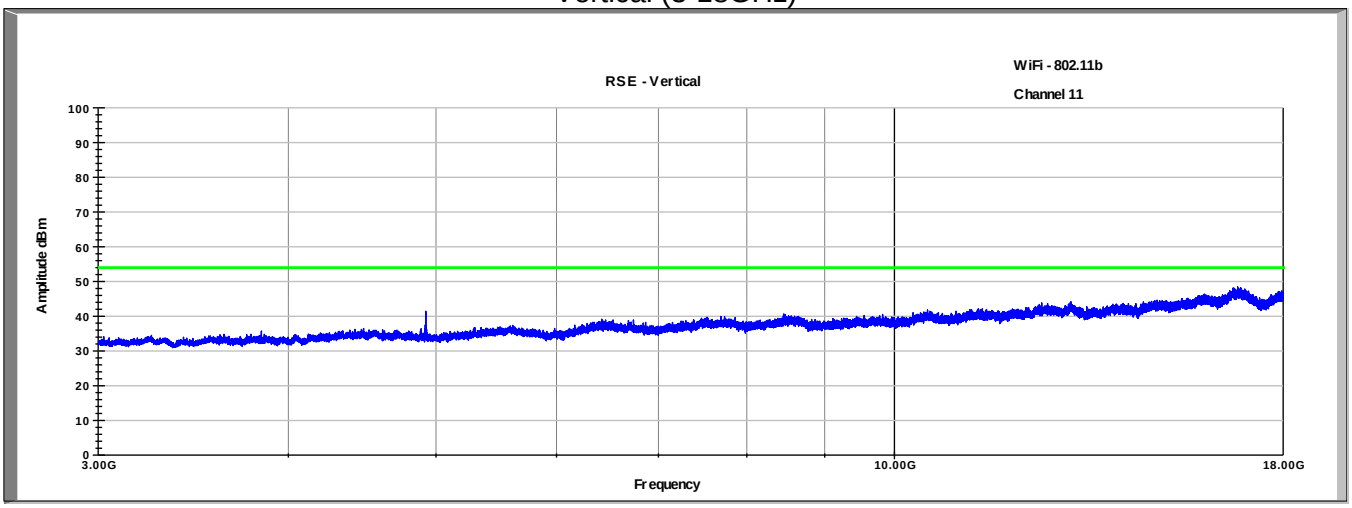
Channel 11
Vertical (1-3GHz)



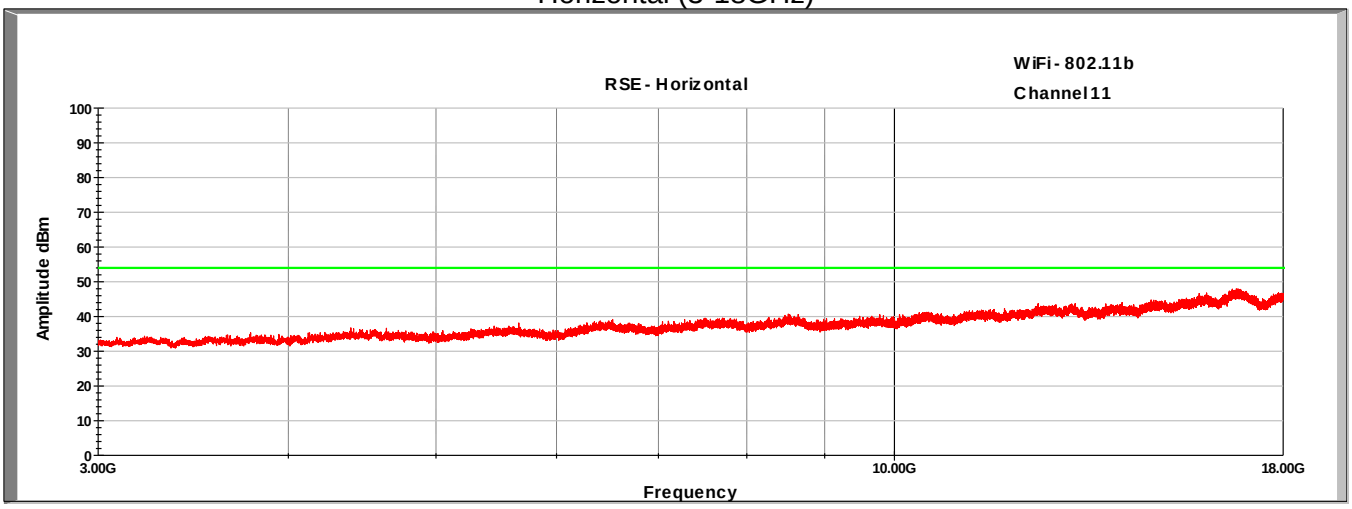
Horizontal (1-3GHz)



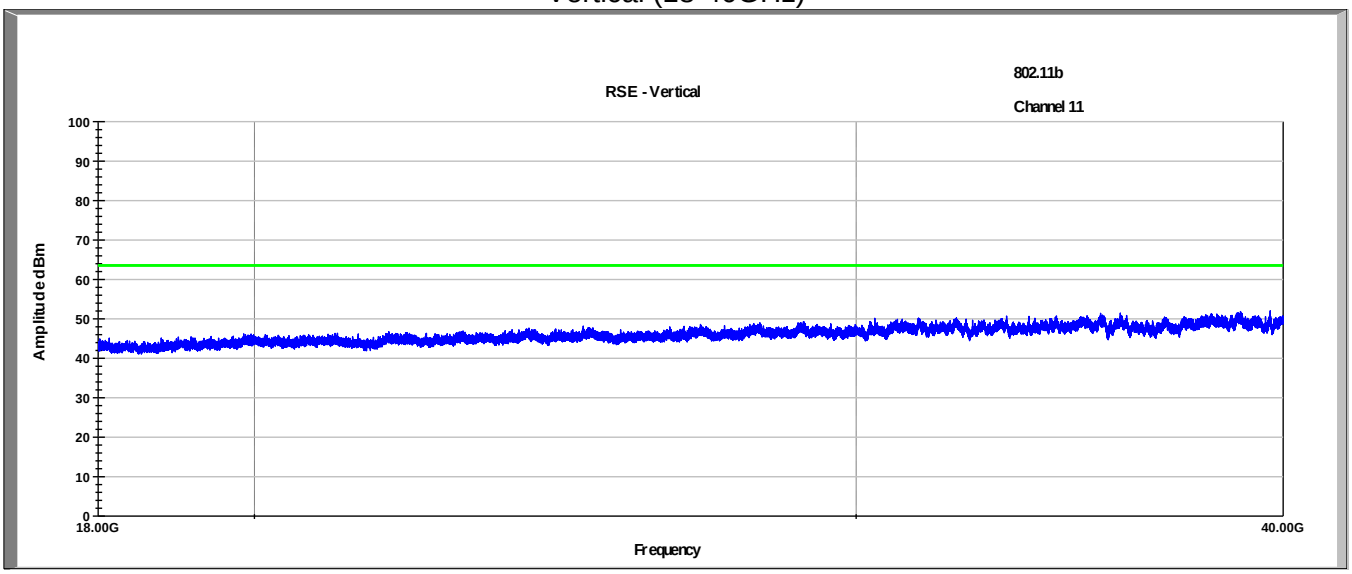
Channel 11
Vertical (3-18GHz)



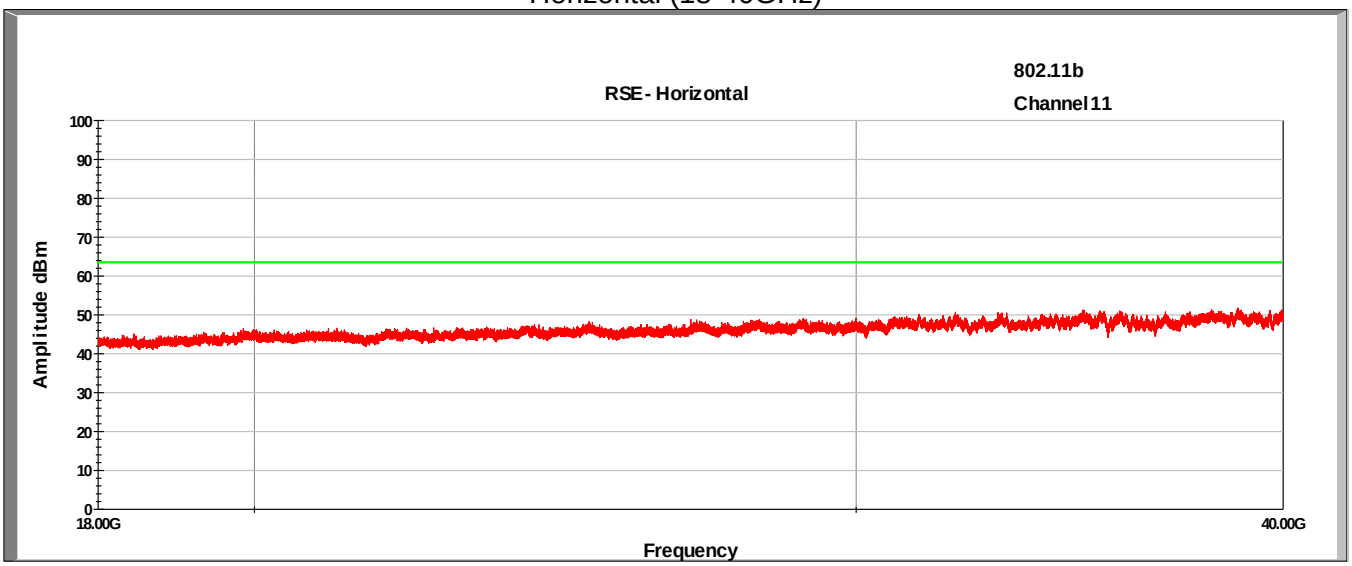
Horizontal (3-18GHz)



Channel 11
Vertical (18-40GHz)



Horizontal (18-40GHz)



7.6 *Tabular Data*

Frequency MHz	Raw QP (dBuV)	Polarity (V/H)	Azimuth (degrees)	Height (cm)	AF (dB/m)	Loss (dB)	Amp (dB)	QP Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)
60.21	52.2	V	24.0	108.0	7.3	0.7	33.0	27.2	40.0	-12.8
66.21	48.2	V	281.0	100.0	7.9	0.7	33.2	23.6	40.0	-16.4
500.00	47.0	V	52.0	206.0	17.9	2.1	33.4	33.5	46.0	-12.5
699.99	49.1	V	340.0	190.0	20.4	2.5	33.4	38.5	46.0	-7.5
800.00	53.0	V	339.0	277.0	21.5	2.6	33.4	43.7	46.0	-2.3
899.99	42.9	V	334.0	377.0	22.3	2.8	33.5	34.6	46.0	-11.4
31.24	27.3	H	253.0	396.0	20.6	0.5	31.2	17.3	40.0	-22.7
500.00	47.2	H	282.0	196.0	17.9	2.1	33.4	33.7	46.0	-12.3
700.00	48.3	H	244.0	287.0	20.4	2.5	33.4	37.8	46.0	-8.2
799.99	52.3	H	60.0	216.0	21.5	2.6	33.4	43.0	46.0	-3.0
875.09	36.2	H	138.0	362.0	22.1	2.8	33.5	27.6	46.0	-18.4
899.99	43.5	H	39.0	198.0	22.3	2.8	33.5	35.2	46.0	-10.8
QP Value = Level + AF + CL - Amp										
Margin = QP Value - Limit										

Note: There was no discernible difference in the measurement data below 1GHz when transmitting at different channels. QP measurements were only recorded with the device transmitting on Channel 1.

No other spurious emissions associated with the radio were detected.

8 Radiated Emissions at Band Edge / Restricted Band

8.1 *Test Result*

Test Description	Test Specification	Test Result
Field strength of spurious radiation	15.247 (d) and 15.209	Compliant

Peak and average field strength measurements were performed at the restricted band edges of 2390MHz and 2483.5MHz. Measurements were made using the radiated methods defined ANSI C63.10, Clause 11.12.2.

Offset Calculations (at restricted band edges):
Offset calculations so that conducted measurements on the spectrum analyzer in dBµV represent field strength measurements in dBµV/m.

$Offset_{3m}$ = CF + DC

D = 3m	Distance
CF = 2.3 dB	Antenna Factor, Cable Loss, Preamp Gain
DC (802.11b) = 3.1 dB (49.5%)	Duty Cycle Correction Factor
DC (802.11g) = 3.7 dB (42.4%)	Duty Cycle Correction Factor
DC (802.11n) = 2.0 dB (63.72%)	Duty Cycle Correction Factor

Offset (802.11b) = 5.4 dB
Offset (802.11g) = 6.0 dB
Offset (802.11n) = 4.3 dB

8.2 *Test Site*

3m Absorber Lined Shielded Enclosure (ALSE), Suwanee, GA

Environmental Conditions
Temperature: 24.1°C
Relative Humidity: 39.8 %

8.3 *Test Equipment*

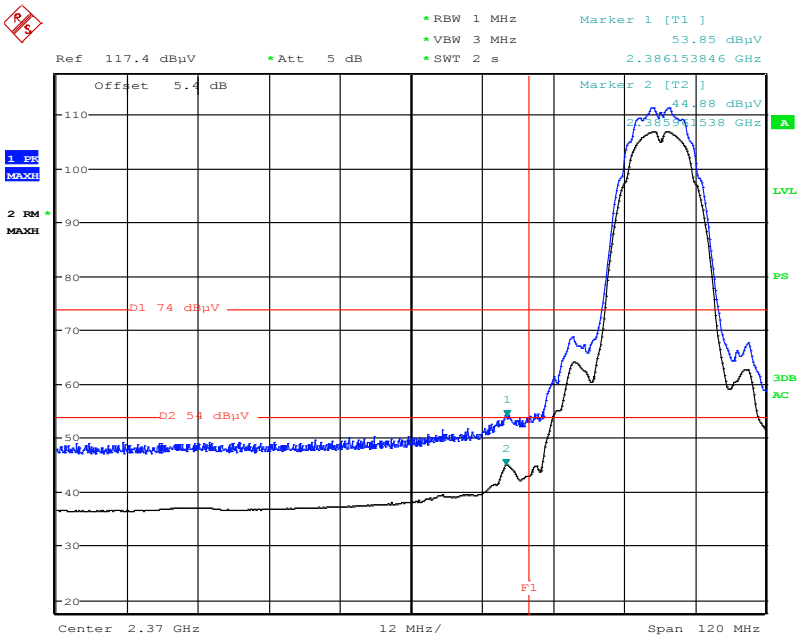
Test End Date: 13-Dec-2017 Tester: JOP

Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU40	ROHDE & SCHWARZ	B079629	25-Apr-2018
RF CABLE	SF106	HUBER & SUHNER	B079712	24-Jul-2018
RF CABLE	NFS-290-78.7-NFS	FLORIDA RF LABS	B095019	24-Jul-2018
RF CABLE	UC-N-MM-78	MAURY MICROWAVE	17016	25-Jul-2018
ANTENNA, DRG HORN (MEDIUM)	3117	ETS LINDGREN	B079699	16-May-2018
RF CABLE	104PE	HUBER & SUHNER	B079793	24-Jul-2018
LOW NOISE AMPLIFIER	TS-PR18	ROHDE & SCHWARZ	15003	28-Jul-2018

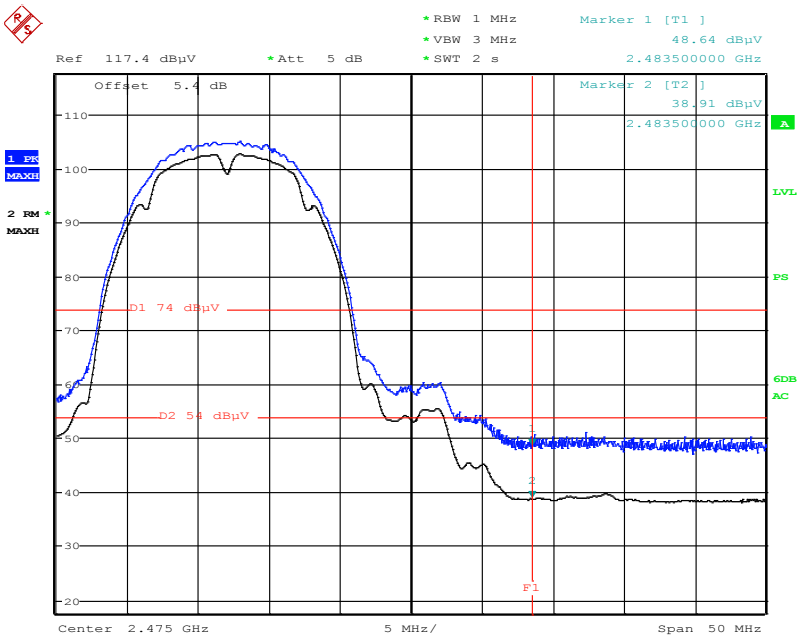
Note: The equipment calibration period is 1 year.

8.4 *Test Data – Band Edge*

802.11b

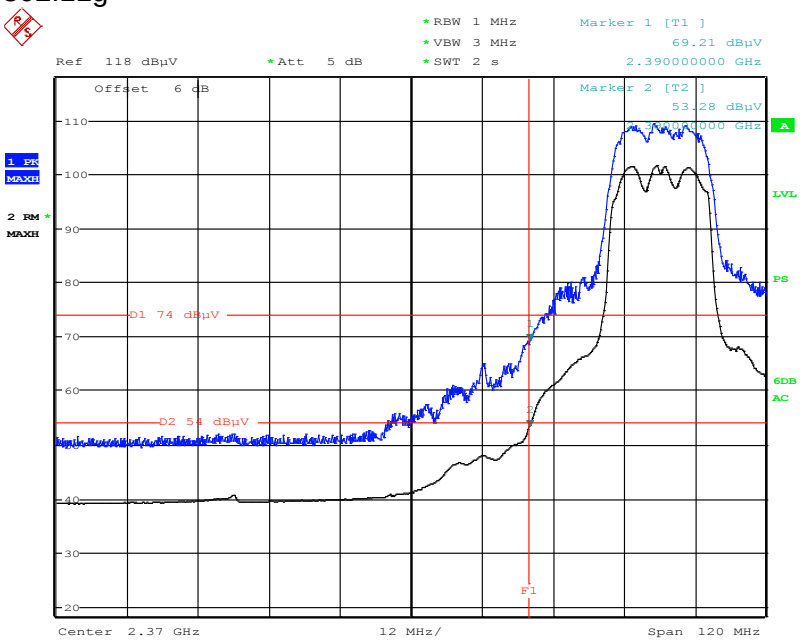


Date: 13.DEC.2017 16:40:56



Date: 13.DEC.2017 17:16:31

802.11g



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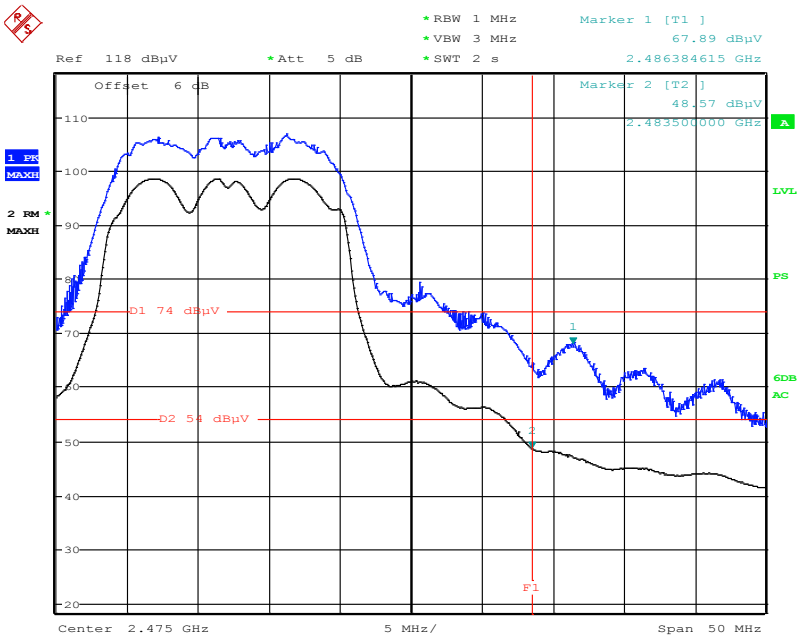

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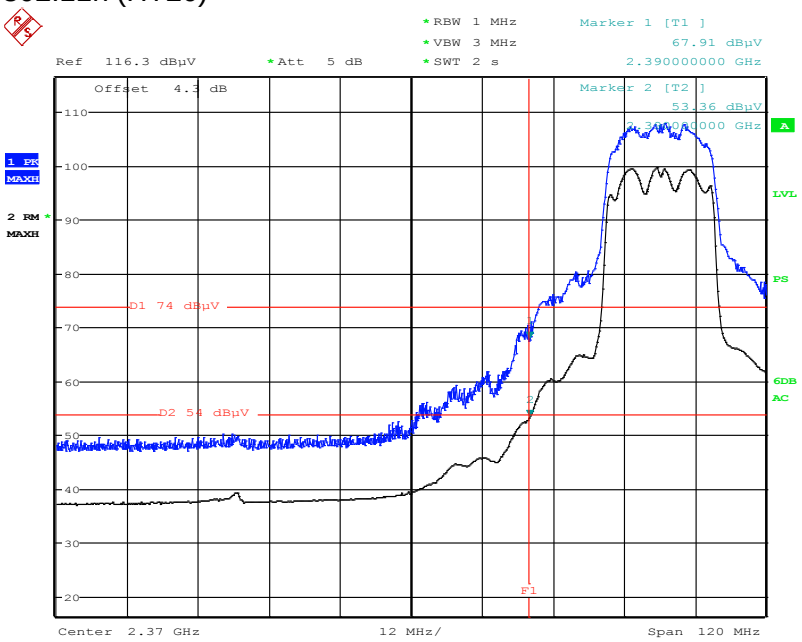
802.11n (HT20)



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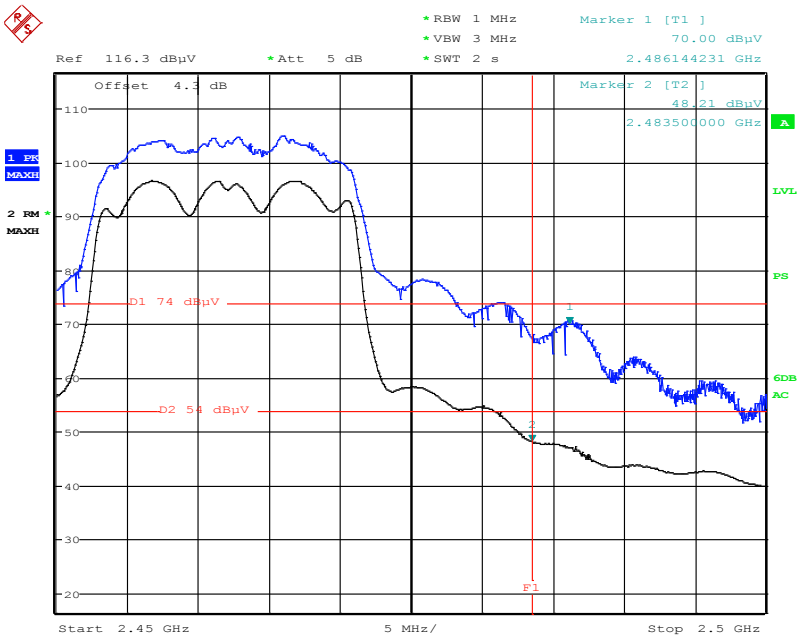


Date: 13.DEC.2017 17:11:33

9 Conducted Emissions

9.1 *Test Result*

Test Description	Basic Standards	Test Result
Conducted Emissions, Class B	RSS-GEN, Issue 4 ANSI C63.4:2014	Compliant

9.2 *Test Method*

With the receiver's resolution bandwidth was set to 9 kHz the exploratory scans were performed over the measuring frequency range (0.15MHz to 30MHz) using a max hold mode incorporating a Peak detector and Average detector and using the TILE! software. The final test data was measured using a Quasi-Peak detector and Average detector and compared against the limits indicated in the table below.

Frequency Range	Class A Limits (dBuV)	Class B Limits (dBuV) CISPR
0.15 to 0.5 MHz	Avg 66 QP 79	Avg 56 to 46 QP 66 to 56
0.5 to 5 MHz	Avg 60 QP 73	Avg 46 Pk 56
5 to 30 MHz	Avg 60 QP 73	Avg 50 Pk 60

9.3 *Test Site*

SGS EMC Laboratory, Suwanee, GA

Environmental Conditions
Temperature: 23.8°C
Relative Humidity: 21.2%

9.4 *Test Equipment*

Test End Date: 12-Dec-2017 Tester: JOP

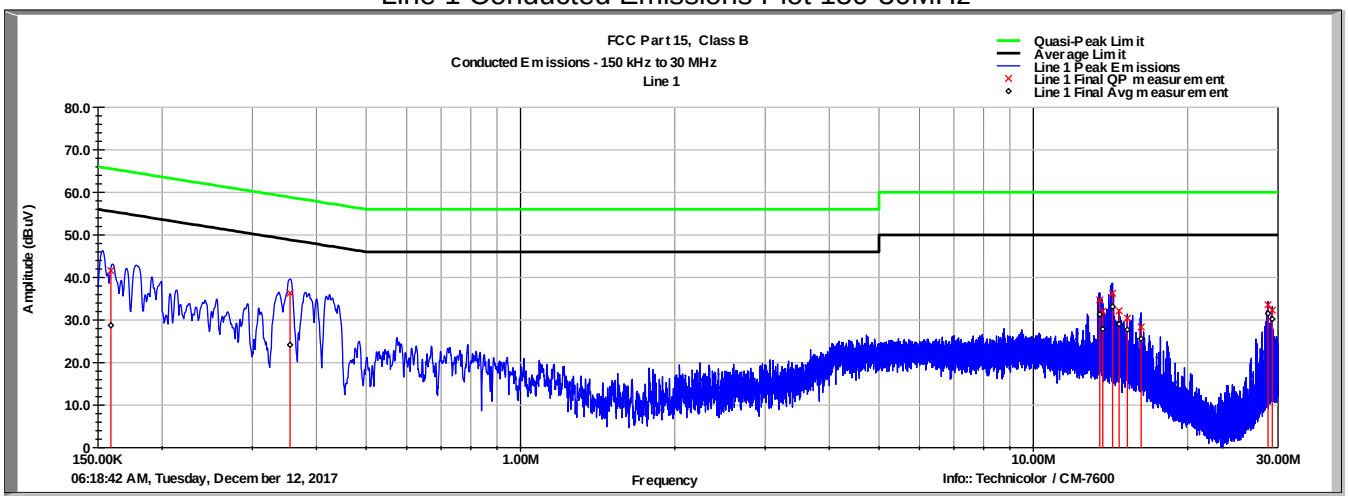
Equipment	Model	Manufacturer	Asset Number	Cal Due Date
EMI TEST RECEIVER	ESU8	ROHDE & SCHWARZ	B085759	25-Jul-2018
LINE IMPEDANCE STABILIZATION NETWORK	NNB 51	TESEQ	B085882	8-Nov-2018
RF CABLE	CBL-25FT-NMNM	MINI-CIRCUITS	B094941	25-Jul-2018

Note: The equipment calibration period is 1 year.

Software:
"Conducted Emissions" TILE! profile dated Dec 2015

9.5 *Test Data*

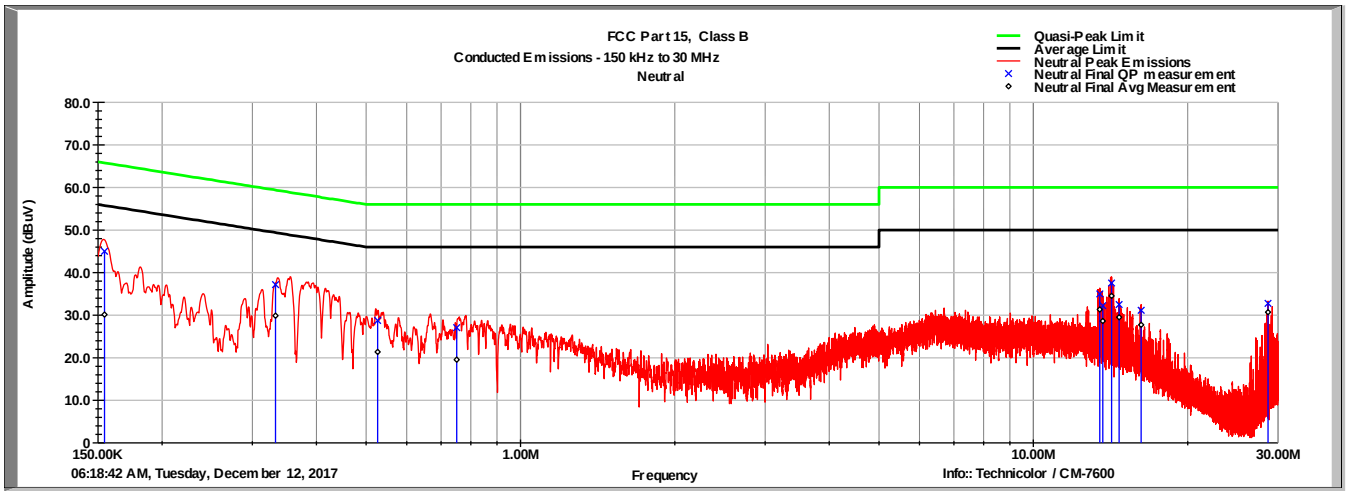
Line 1 Conducted Emissions Plot 150-30MHz



Line 1 Conducted Emissions Data 150-30MHz

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.159	41.6	65.5	-24.0	28.7	55.5	-26.8
0.355	36.3	58.8	-22.5	24.2	48.8	-24.6
13.479	34.7	60.0	-25.3	31.3	50.0	-18.7
13.662	32.0	60.0	-28.0	27.9	50.0	-22.1
14.273	36.3	60.0	-23.7	33.1	50.0	-16.9
14.701	32.2	60.0	-27.8	29.0	50.0	-21.0
15.251	30.4	60.0	-29.6	27.7	50.0	-22.3
16.231	28.3	60.0	-31.7	25.6	50.0	-24.4
28.685	33.6	60.0	-26.4	31.5	50.0	-18.5
29.234	32.3	60.0	-27.7	30.2	50.0	-19.8

Neutral Conducted Emissions Plot 150-30MHz



Neutral Conducted Emissions Data 150-30MHz

Frequency MHz	QP Value dBuV	QP Limit dBuV	QP Margin dB	Avg Value dBuV	Avg Limit dBuV	Avg Margin dB
0.155	45.0	65.7	-20.7	30.1	55.7	-25.6
0.333	37.2	59.4	-22.2	29.9	49.4	-19.5
0.527	28.7	56.0	-27.3	21.4	46.0	-24.6
0.751	27.1	56.0	-28.9	19.5	46.0	-26.5
13.481	35.0	60.0	-25.0	31.3	50.0	-18.7
13.661	32.2	60.0	-27.8	28.6	50.0	-21.4
14.212	37.6	60.0	-22.4	34.5	50.0	-15.5
14.700	32.5	60.0	-27.5	29.5	50.0	-20.5
16.227	31.1	60.0	-28.9	27.7	50.0	-22.3
28.685	32.8	60.0	-27.2	30.7	50.0	-19.3

10 Revision History

Revision Level	Description of changes	Revision Date
0	Initial release	20 December 2017