



CFR 47 FCC PART 15 SUBPART C

TEST REPORT

For

Water Purifier

MODEL NUMBER: PL400G

FCC ID: 2ATKEPL400G

REPORT NUMBER: 4788878927-1

ISSUE DATE: June 20, 2019

Prepared for

VISINI USA INC

136 N. Grand Ave., #330, West Covina, CA 91791

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	06/20/2019	Initial Issue	



Summary of Test Results			
Clause	Test Items	FCC/IC Rules	Test Results
1	6dB Bandwidth and 99% Occupied Bandwidth	FCC Part 15.247 (a) (2) RSS-247 Clause 5.2 (a) ISED RSS-Gen Clause 6.7	Pass
2	Peak Conducted Output Power	FCC Part 15.247 (b) (3) RSS-247 Clause 5.4 (d)	Pass
3	Power Spectral Density	FCC Part 15.247 (e) RSS-247 Clause 5.2 (b)	Pass
4	Conducted Bandedge and Spurious Emission	FCC Part 15.247 (d) RSS-247 Clause 5.5	Pass
5	Radiated Bandedge and Spurious Emission	FCC Part 15.247 (d) FCC Part 15.209 FCC Part 15.205 RSS-247 Clause 5.5 RSS-GEN Clause 8.9	Pass
6	Conducted Emission Test For AC Power Port	FCC Part 15.207 RSS-GEN Clause 8.8	Pass
7	Antenna Requirement	FCC Part 15.203 RSS-GEN Clause 6.8	Pass



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: VISINI USA INC
Address: 136 N. Grand Ave., #330, West Covina, CA 91791

Manufacturer Information

Company Name: VISINI USA INC
Address: 136 N. Grand Ave., #330, West Covina, CA 91791

EUT Description

EUT Name: Water Purifier
Model: PL400G
Sample Status: Normal
Brand Name: Purlette
Sample ID: 2319864
Sample Received Date: May 28, 2019
Date of Tested: May 30, 2019 ~ June 19, 2019

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART C	PASS

Prepared By:

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Checked By:

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Approved By:

Stephen Guo
Laboratory Manager



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 DTS Meas Guidance v05r02, KDB 414788 D01 Radiated Test Site v01r01, KDB 662911 D01 Multiple Transmitter Output v02r01, CFR 47 FCC Part 2, CFR 47 FCC Part 15, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>IC(Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B, the VCCI registration No. is C-20012 and T-20011</p>
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Note:

1. All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China
2. The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.
3. For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognize national standards.

4.2. CMEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
Conduction emission	3.62dB
Radiation Emission test(include Fundamental emission) (9KHz-30MHz)	2.2dB
Radiation Emission test(include Fundamental emission) (30MHz-1GHz)	4.00dB
Radiation Emission test (1GHz to 26GHz)(include Fundamental emission)	5.78dB (1GHz-18Gz)
	5.23dB (18GHz-26Gz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	



5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	Water Purifier
Model	PL400G
Radio Technology	IEEE802.11b/g/n HT20/HT40
Operation frequency	IEEE 802.11b: 2412MHz—2462MHz IEEE 802.11g: 2412MHz—2462MHz IEEE 802.11n HT20: 2412MHz—2462MHz IEEE 802.11n HT40: 2422MHz—2452MHz
Modulation	IEEE 802.11b: DSSS(CCK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK)
Rated Input	AC 120V/50Hz

5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains (NTX)	IEE Std. 802.11	Frequency (MHz)	Channel Number	Max PK Conducted Power (dBm)
1	IEEE 802.11b	2412-2462	1-11[11]	19.86
1	IEEE 802.11g	2412-2462	1-11[11]	22.58
1	IEEE 802.11nHT20	2412-2462	1-11[11]	21.73
1	IEEE 802.11nHT40	2422-2452	3-9[7]	21.46

5.3. CHANNEL LIST

Channel List for 802.11b/g/n (20 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	4	2427	7	2442	10	2457
2	2417	5	2432	8	2447	11	2462
3	2422	6	2437	9	2452	/	/

Channel List for 802.11n (40 MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	5	2432	7	2442	9	2452
4	2427	6	2437	8	2447	/	/



5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency
WiFi TX (802.11b)	CH 1, CH 6, CH 11	2412MHz, 2437MHz, 2462MHz
WiFi TX (802.11g)	CH 1, CH 6, CH 11	2412MHz, 2437MHz, 2462MHz
WiFi TX (802.11n HT20)	CH 1, CH 6, CH 11	2412MHz, 2437MHz, 2462MHz
WiFi TX (802.11n HT40)	CH 3, CH 6, CH 9	2422MHz, 2437MHz, 2452MHz

5.5. THE WORSE CASE CONFIGURATIONS

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band							
Test Software		UI_mptool					
Modulation Mode	Transmit Antenna Number	Test Channel					
		NCB: 20MHz			NCB: 40MHz		
		CH 1	CH 6	CH 11	CH 3	CH 6	CH 9
802.11b	1	39	40	40	/		
802.11g	1	46	46	44			
802.11n HT20	1	44	44	42			
802.11n HT40	1	/			43	43	41

5.6. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	PCB Antenna	2.5

Test Mode	Transmit and Receive Mode	Description
IEEE 802.11b	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11g	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT20	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.
IEEE 802.11n HT40	☒1TX, 1RX	ANT 1 can be used as transmitting/receiving antenna.



5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	P/N
1	Laptop	ThinkPad	T460S	SL10K24796 JS
2	Serial to USB board	/	/	/

I/O CABLES

Cable No	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	/	/	/	/	/

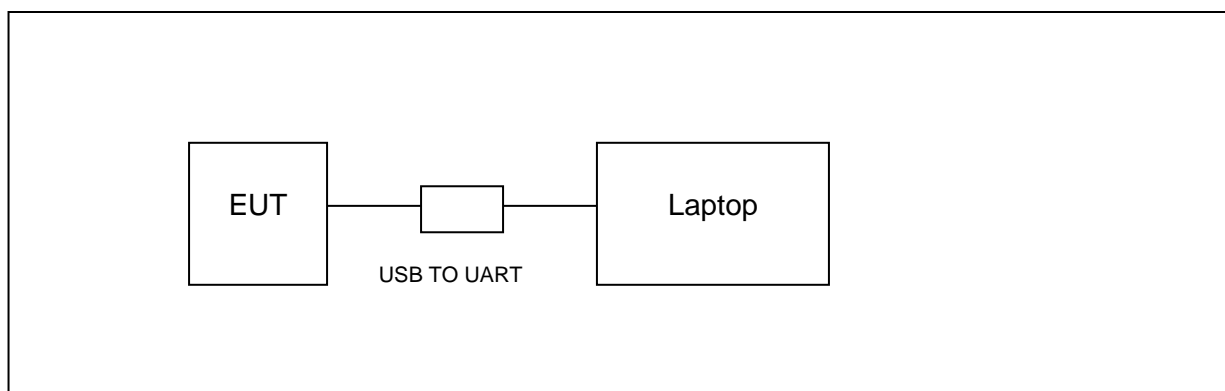
ACCESSORIES

Item	Accessory	Brand Name	Model Name	Description
1	/	/	/	/

TEST SETUP

The EUT can work in engineering mode with a software through a Laptop.

SETUP DIAGRAM FOR TESTS





6. MEASURING INSTRUMENT AND SOFTWARE USED

Conducted Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	EMI Test Receiver	R&S	ESR3	101961	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Two-Line V-Network	R&S	ENV216	101983	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Artificial Mains Networks	Schwarzbeck	NSLK 8126	8126465	Dec.10,2018	Dec.10,2019
Software						
Used	Description		Manufacturer	Name		Version
<input checked="" type="checkbox"/>	Test Software for Conducted disturbance		Farad	EZ-EMC		Ver. UL-3A1
Radiated Emissions						
Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	MXE EMI Receiver	KESIGHT	N9038A	MY56400036	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Hybrid Log Periodic Antenna	TDK	HLP-3003C	130960	Sep.17, 2018	Sep.17, 2021
<input checked="" type="checkbox"/>	Preamplifier	HP	8447D	2944A09099	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	EMI Measurement Receiver	R&S	ESR26	101377	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Horn Antenna	TDK	HRN-0118	130939	Sep.17, 2018	Sep.17, 2021
<input checked="" type="checkbox"/>	High Gain Horn Antenna	Schwarzbeck	BBHA-9170	691	Aug.11, 2018	Aug.11, 2021
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-0118	TRS-305-00066	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Preamplifier	TDK	PA-02-2	TRS-307-00003	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Loop antenna	Schwarzbeck	1519B	00008	Jan.07,2019	Jan.07,2022
<input checked="" type="checkbox"/>	Band Reject Filter	Wainwright	WRCJV8-2350-2400-2483.5-2533.5-40SS	4	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	High Pass Filter	Wi	WHKX10-2700-3000-18000-40SS	23	Dec.10,2018	Dec.10,2019
Software						
Used	Description		Manufacturer	Name		Version
<input checked="" type="checkbox"/>	Test Software for Radiated disturbance		Farad	EZ-EMC		Ver. UL-3A1



Other instruments						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
<input checked="" type="checkbox"/>	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Power Meter	Keysight	N1911A	MY55416024	Dec.10,2018	Dec.10,2019
<input checked="" type="checkbox"/>	Power Sensor	Keysight	U2021XA	MY5100022	Dec.10,2018	Dec.10,2019



7. MEASUREMENT METHODS

No.	Test Item	KDB Name	Section
1	6dB Bandwidth	KDB 558074 D01 DTS Meas Guidance v05r02	8.2
2	Peak Output Power	KDB 558074 D01 DTS Meas Guidance v05r02	8.3.1.3/8.3.2.3
3	Power Spectral Density	KDB 558074 D01 DTS Meas Guidance v05r02	8.4
4	Out-of-band emissions in non-restricted bands	KDB 558074 D01 DTS Meas Guidance v05r02	8.5
5	Out-of-band emissions in restricted bands	KDB 558074 D01 DTS Meas Guidance v05r02	8.6
6	Band-edge	KDB 558074 D01 DTS Meas Guidance v05r02	8.7
7	Conducted Emission Test For AC Power Port	ANSI C63.10-2013	6.2



8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

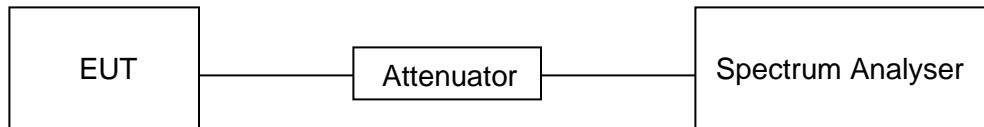
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V/50Hz

RESULTS

ANTENNA 1

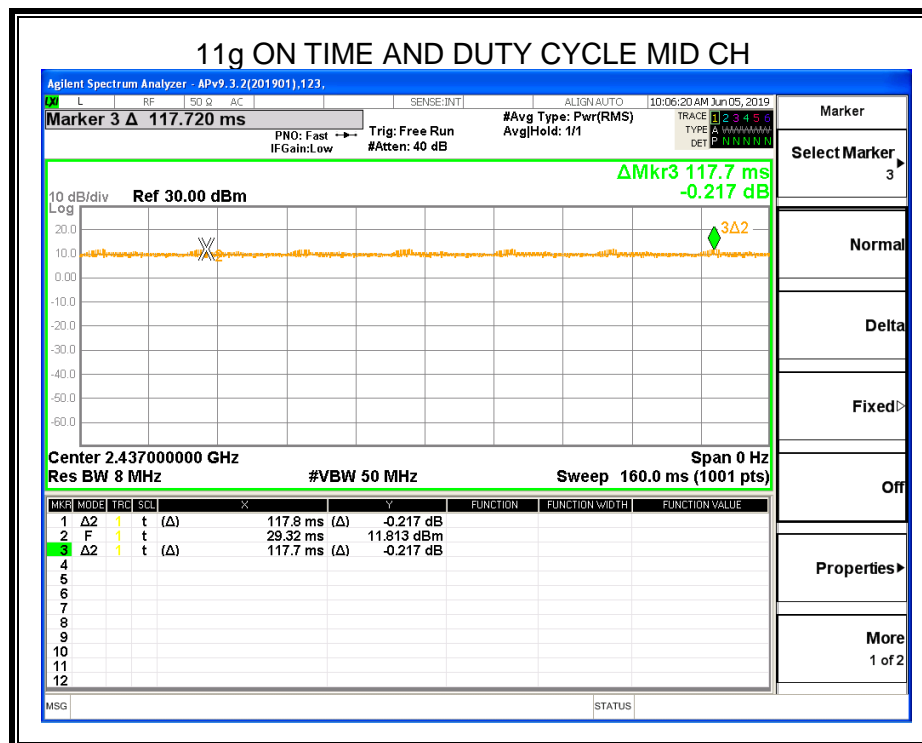
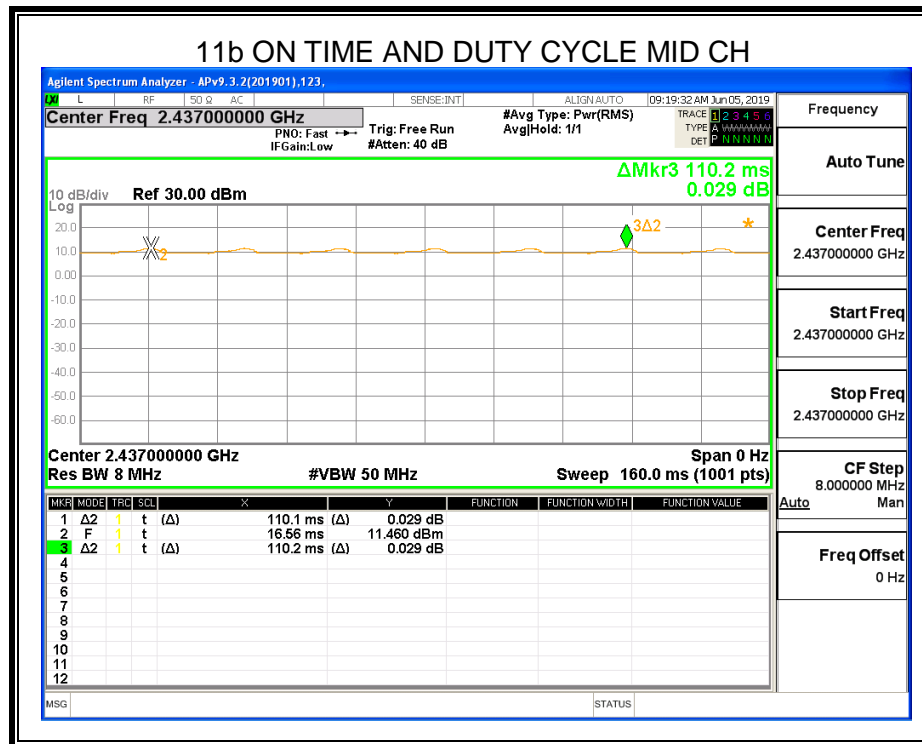
Mode	On Time (msec)	Period (msec)	Duty Cycle x (Linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (KHz)	Final setting For VBW (KHz)
11b	100	100	1	100	0	0.01	0.01
11g	100	100	1	100	0	0.01	0.01
11n20	100	100	1	100	0	0.01	0.01
11n40	100	100	1	100	0	0.01	0.01

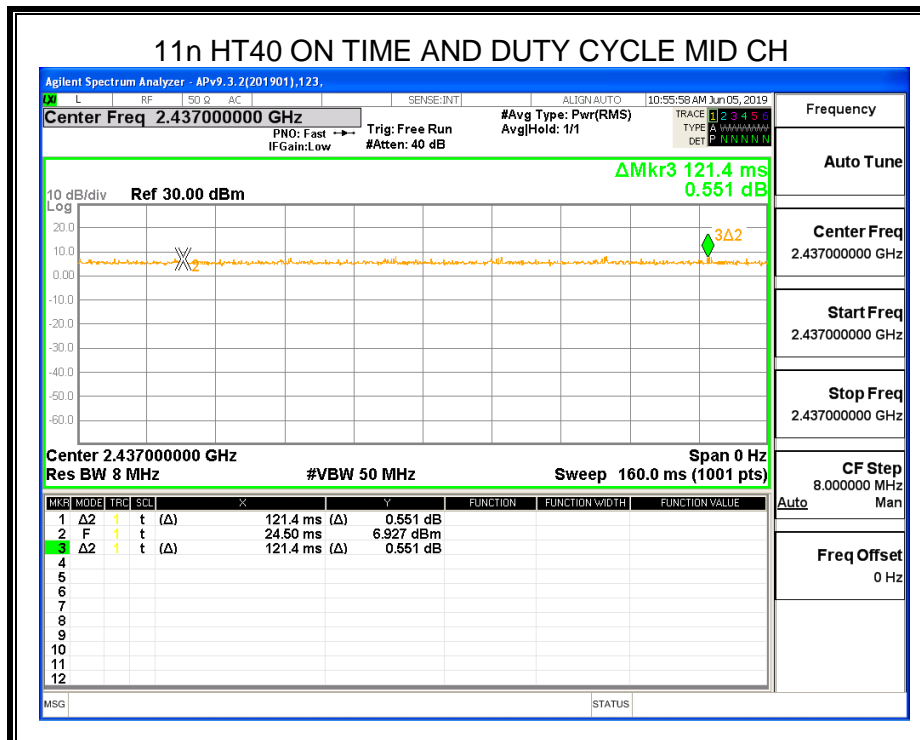
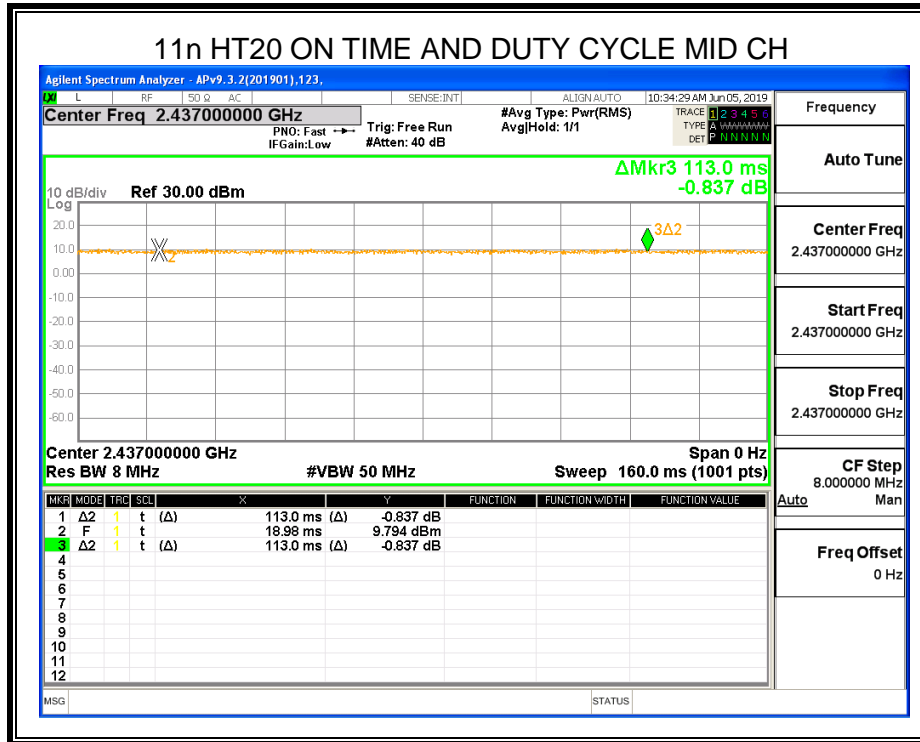
Note:

Duty Cycle Correction Factor=10log (1/x).

Where: x is Duty Cycle (Linear)

Where: T is On Time







8.2. 6 dB DTS BANDWIDTH AND 99% OCCUPIED BANDWIDTH

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(a)(2)	6 dB Bandwidth	$\geq 500\text{KHz}$	2400-2483.5

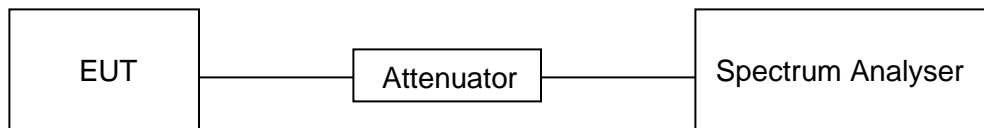
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	For 6dB Bandwidth :100K For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth : $\geq 3 \times \text{RBW}$ For 99% Occupied Bandwidth : approximately $3 \times \text{RBW}$
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB and 99% relative to the maximum level measured in the fundamental emission.

TEST SETUP





TEST ENVIRONMENT

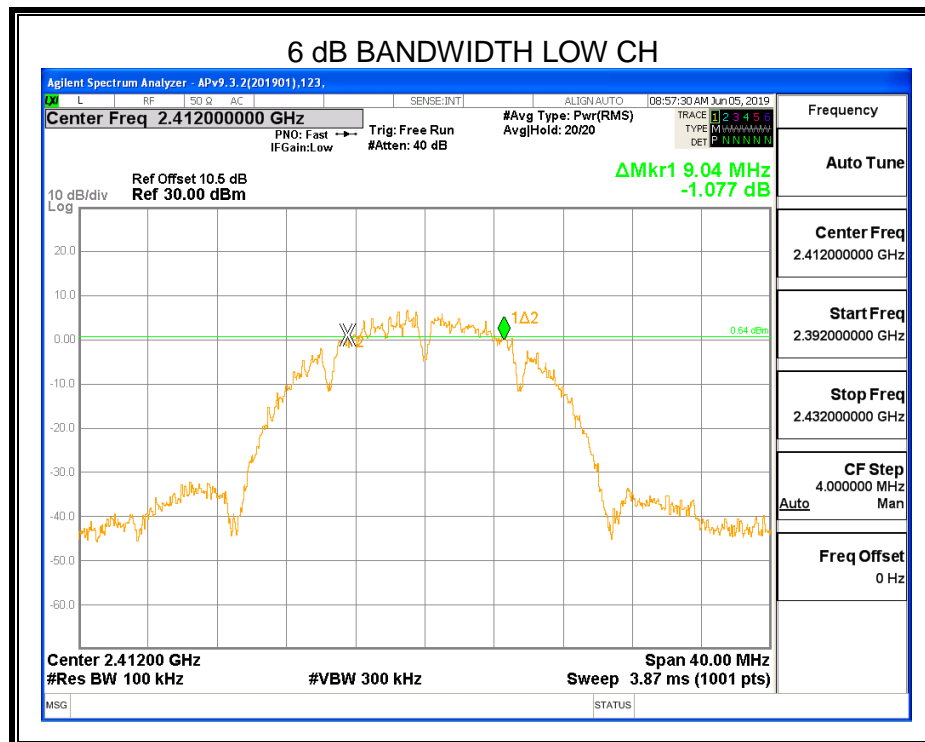
Temperature	24.1°C	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V/50Hz

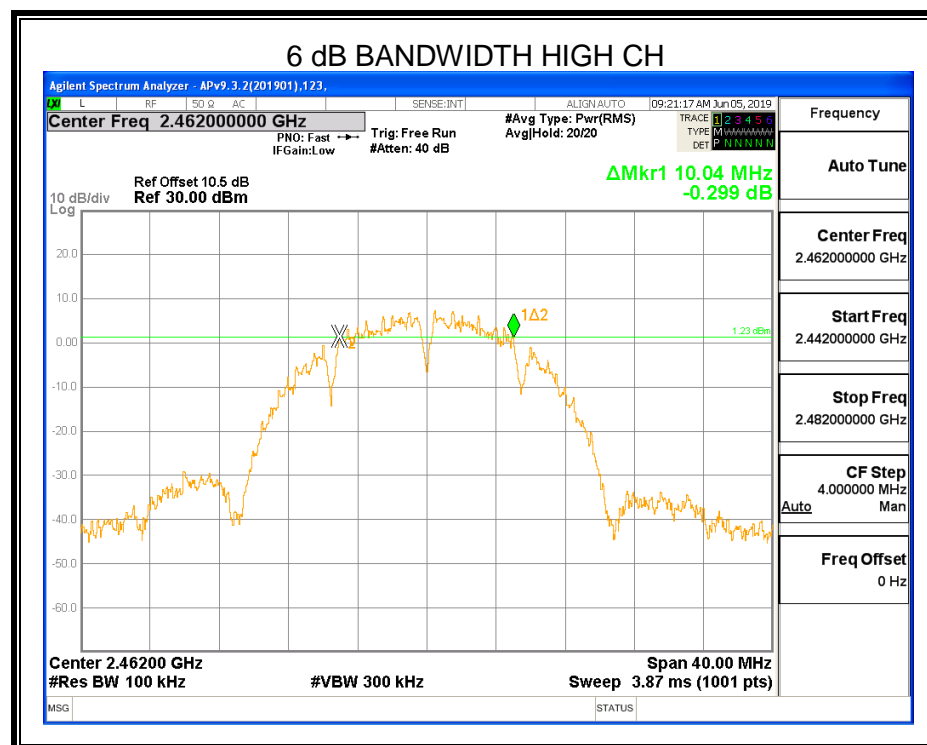
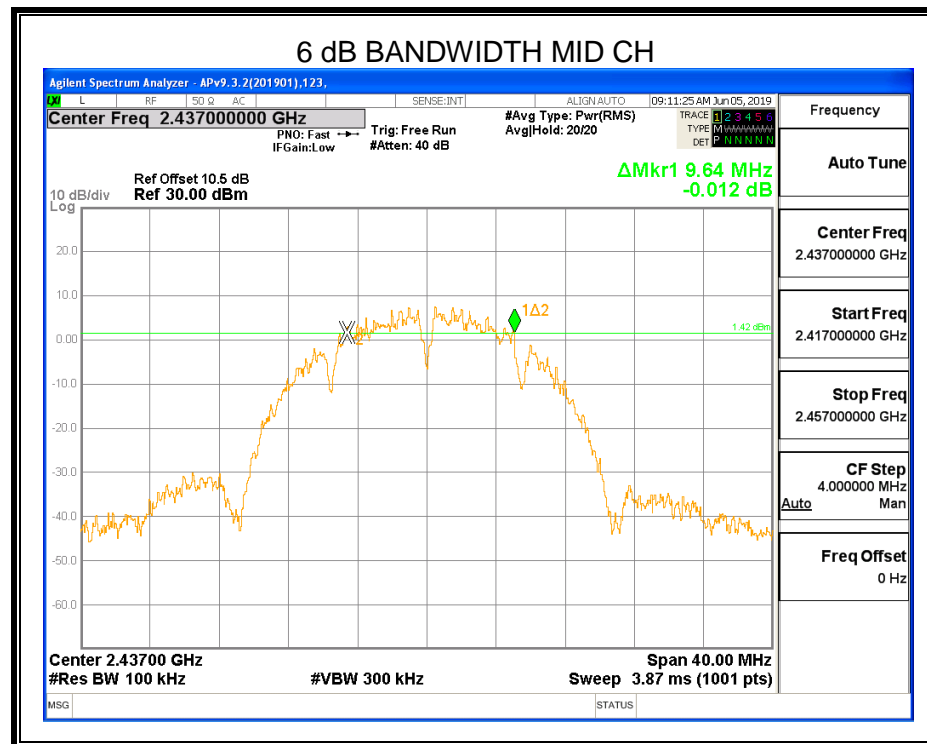
RESULTS

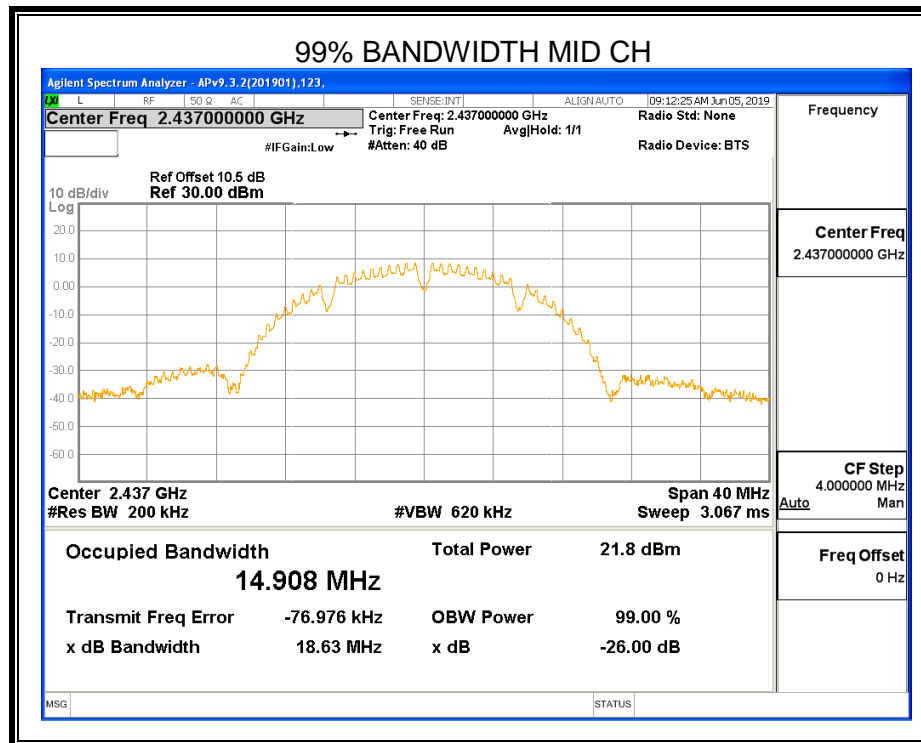
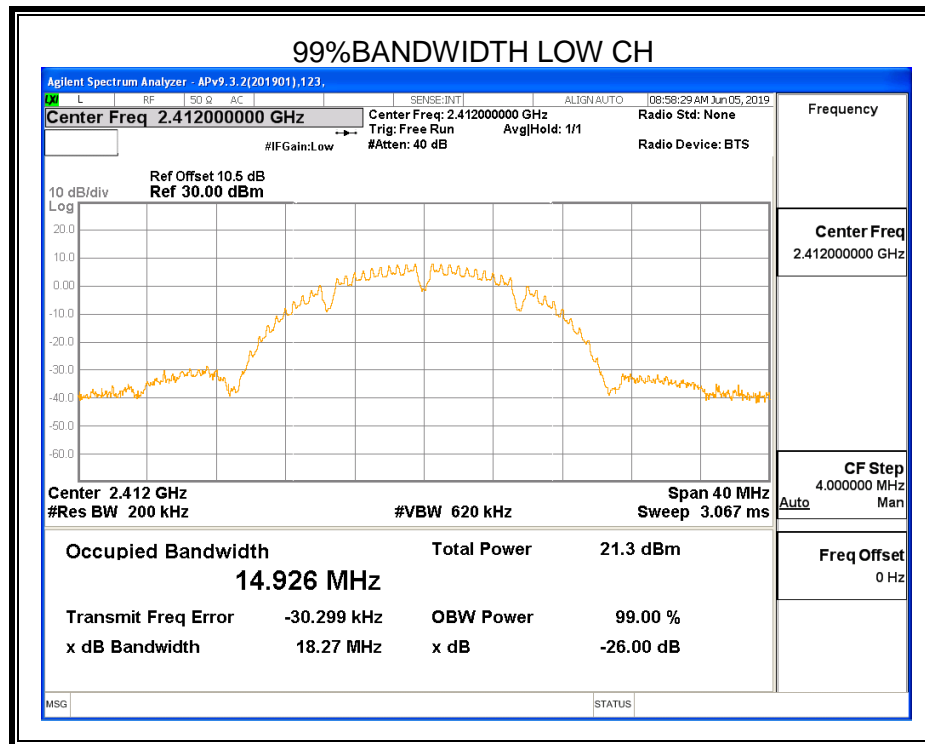
8.2.1. 802.11b MODE

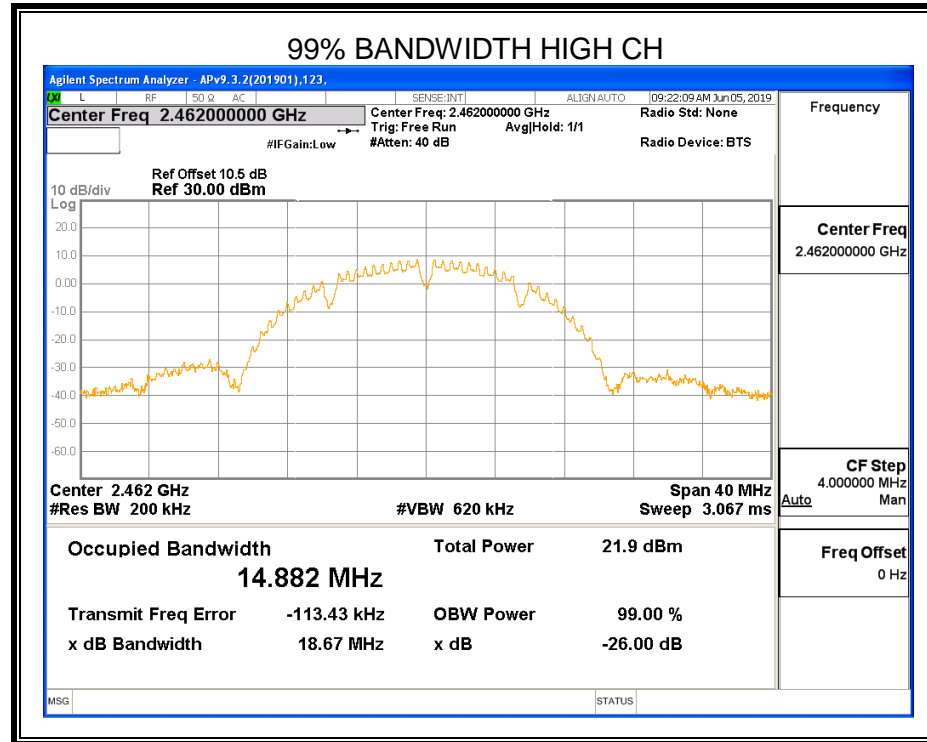
ANTENNA 1

Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Limit (kHz)	Result
Low	9.04	14.926	≥500	Pass
Middle	9.64	14.908	≥500	Pass
High	10.04	14.882	≥500	Pass







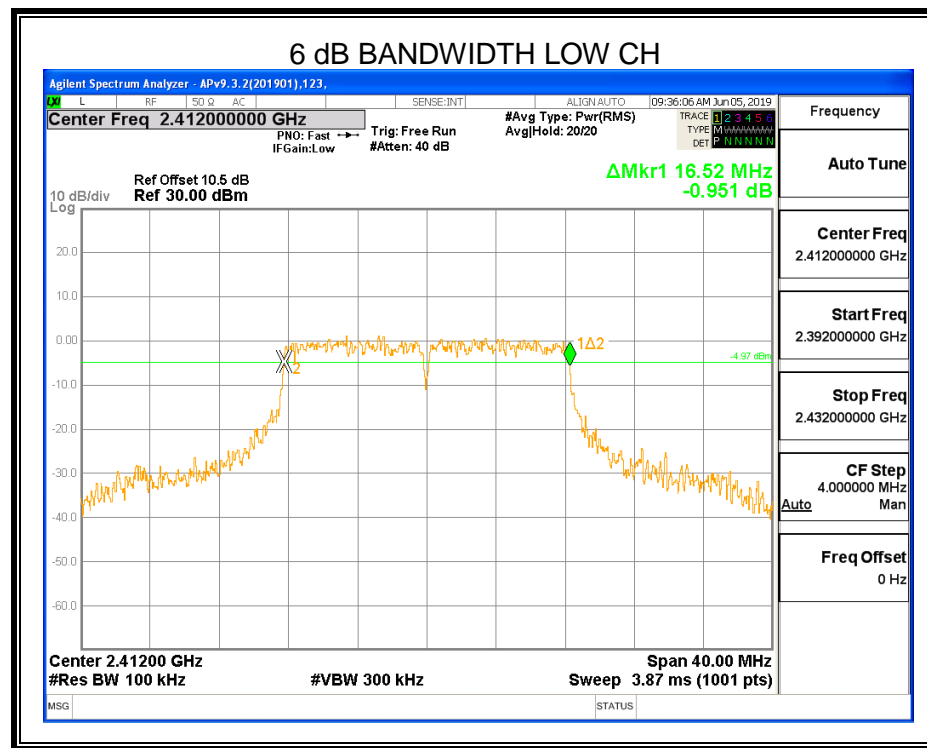


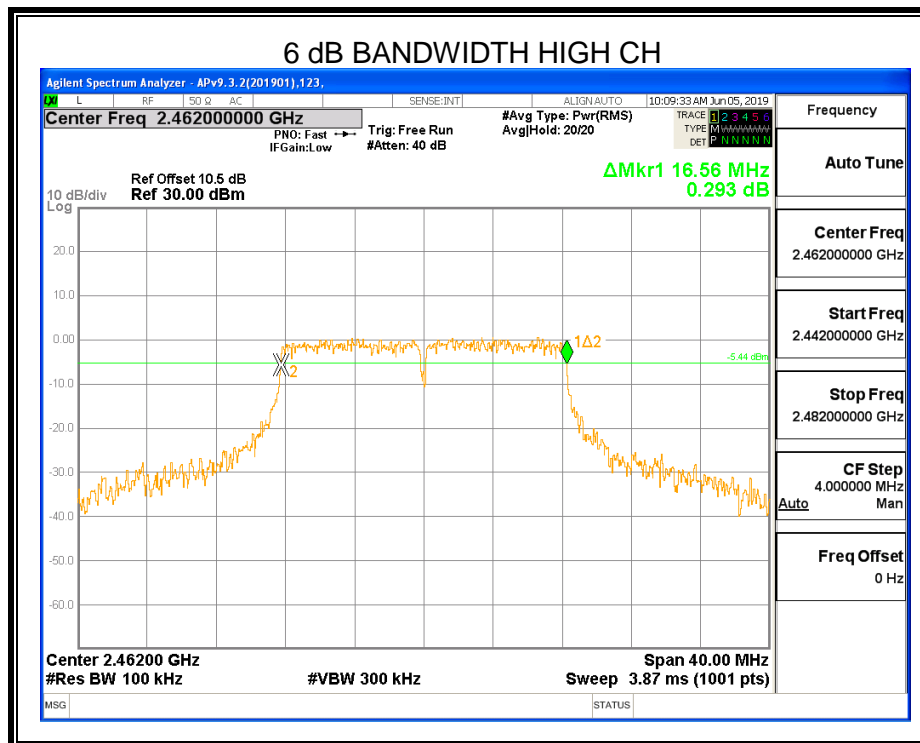
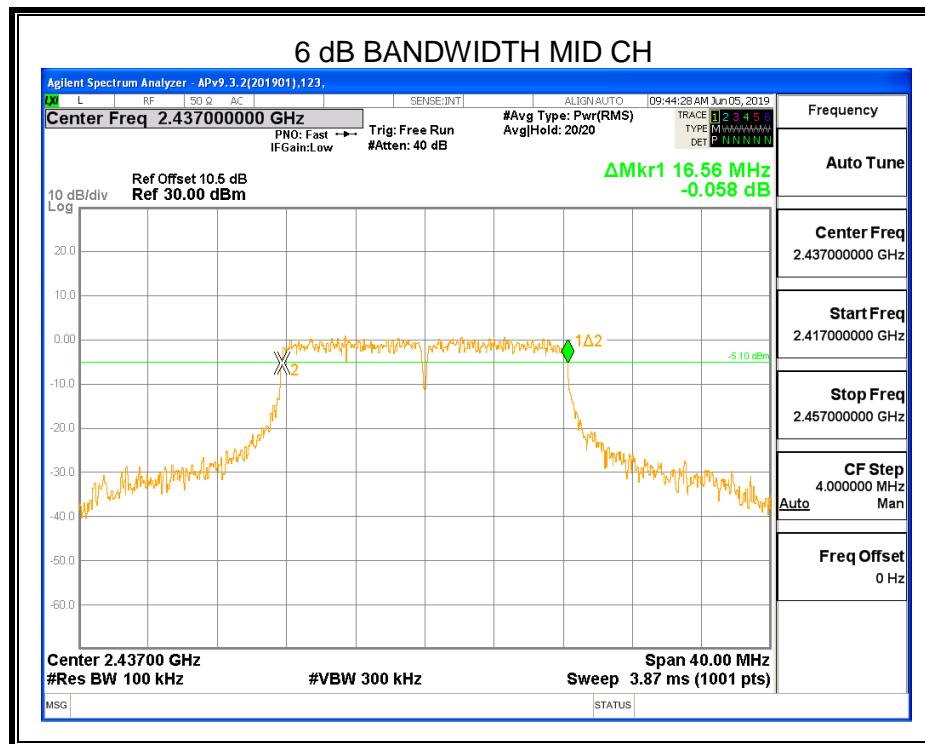


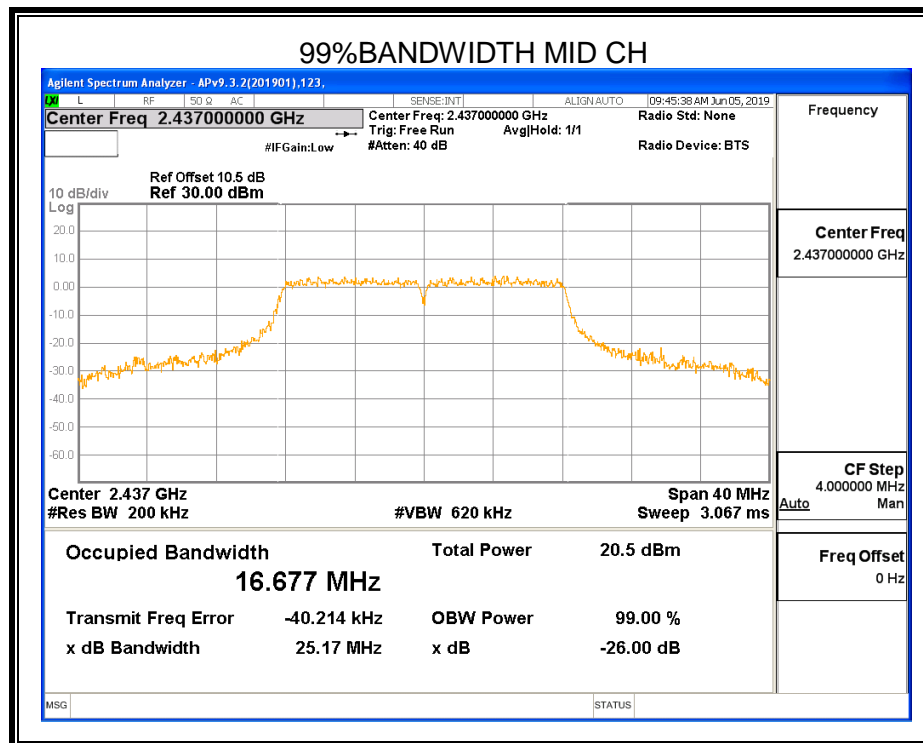
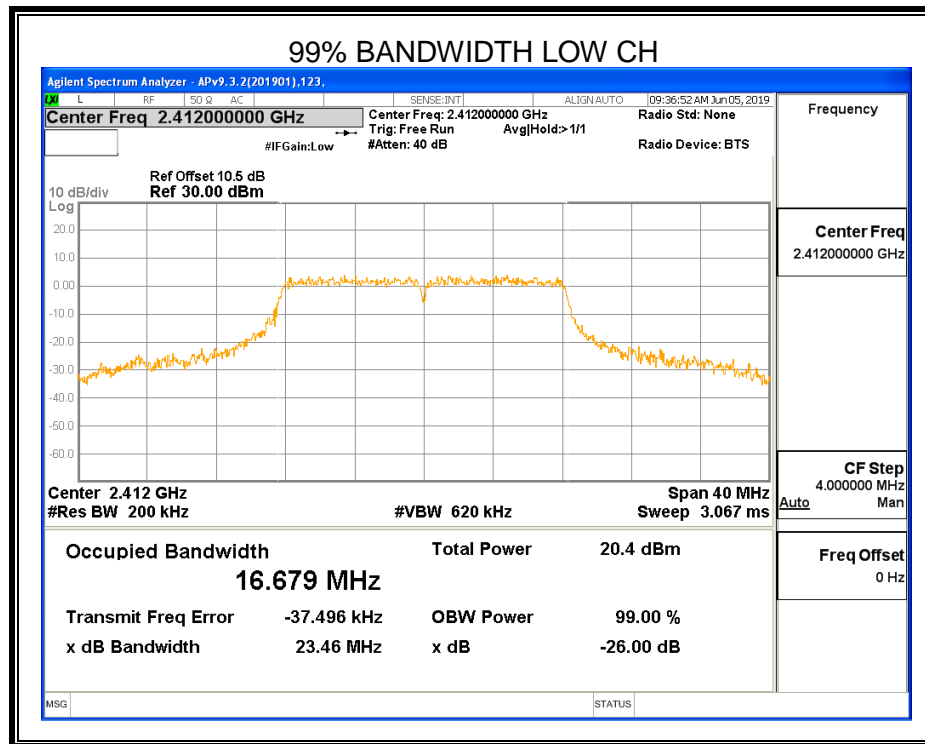
8.2.2. 802.11g MODE

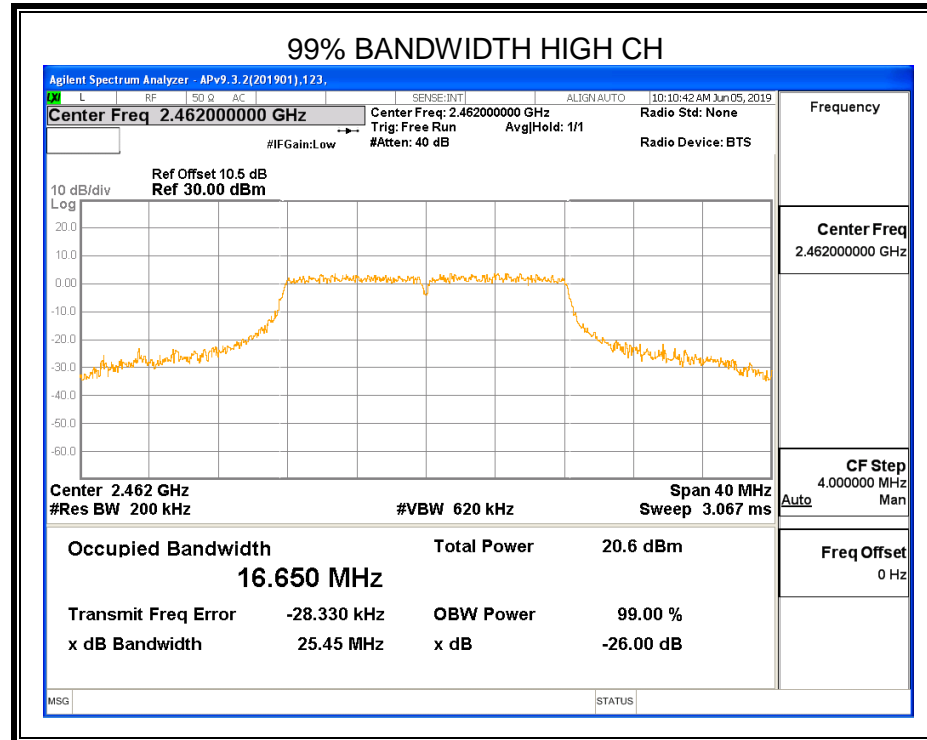
ANTENNA 1

Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Limit (kHz)	Result
Low	16.52	16.679	≥500	Pass
Middle	16.56	16.677	≥500	Pass
High	16.56	16.650	≥500	Pass







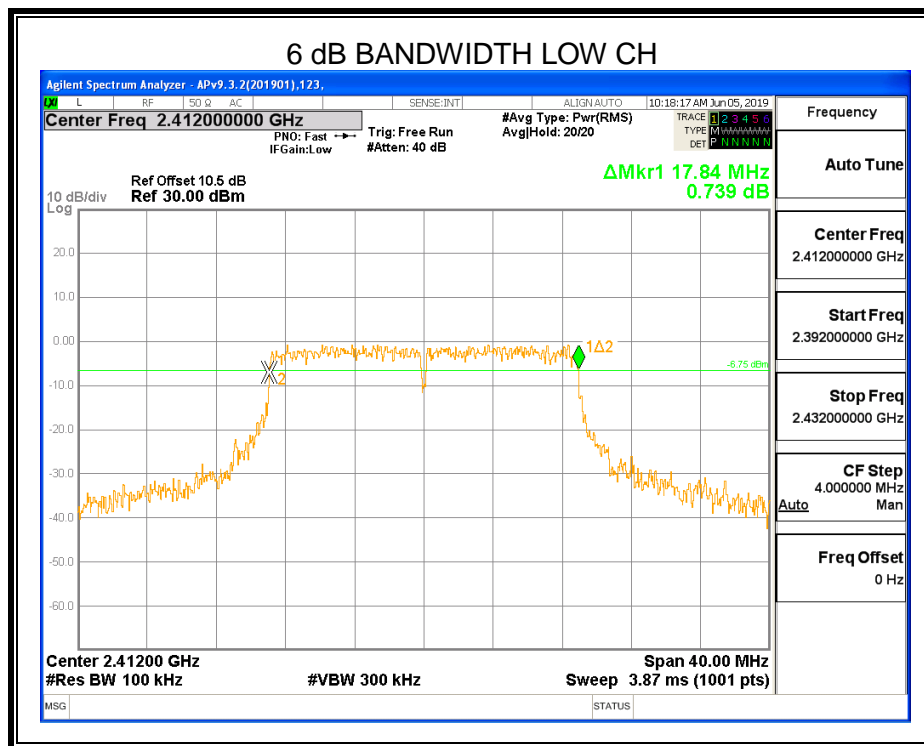


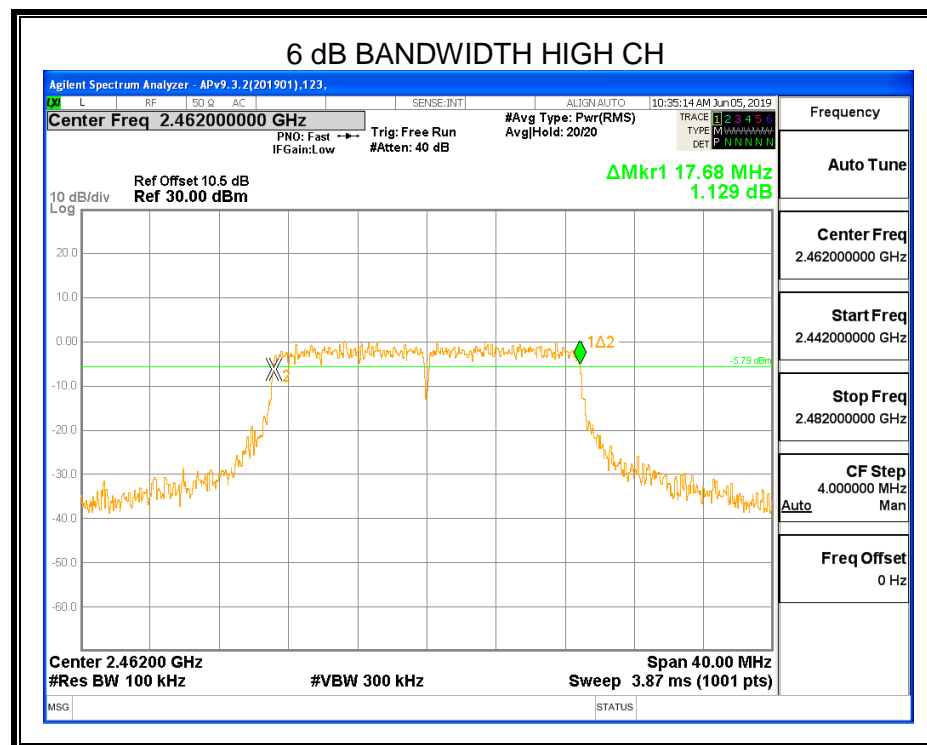
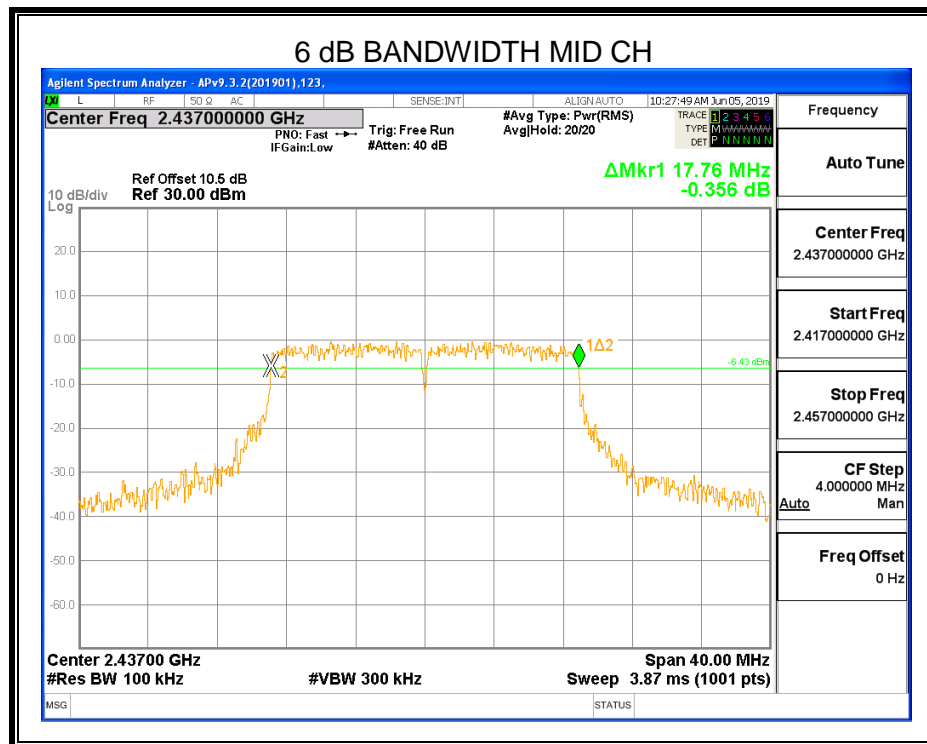


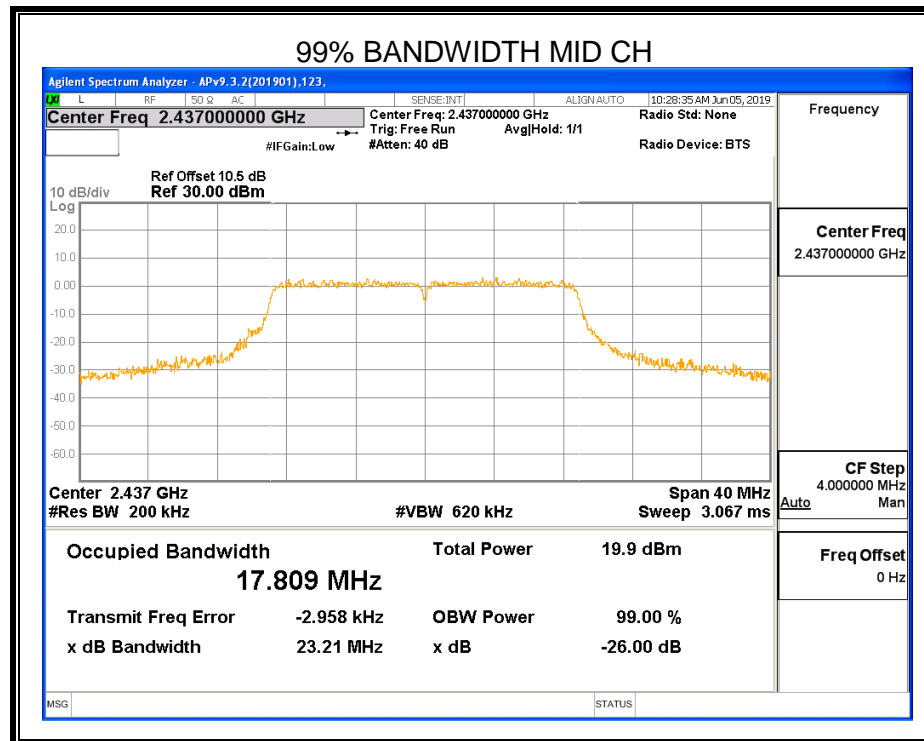
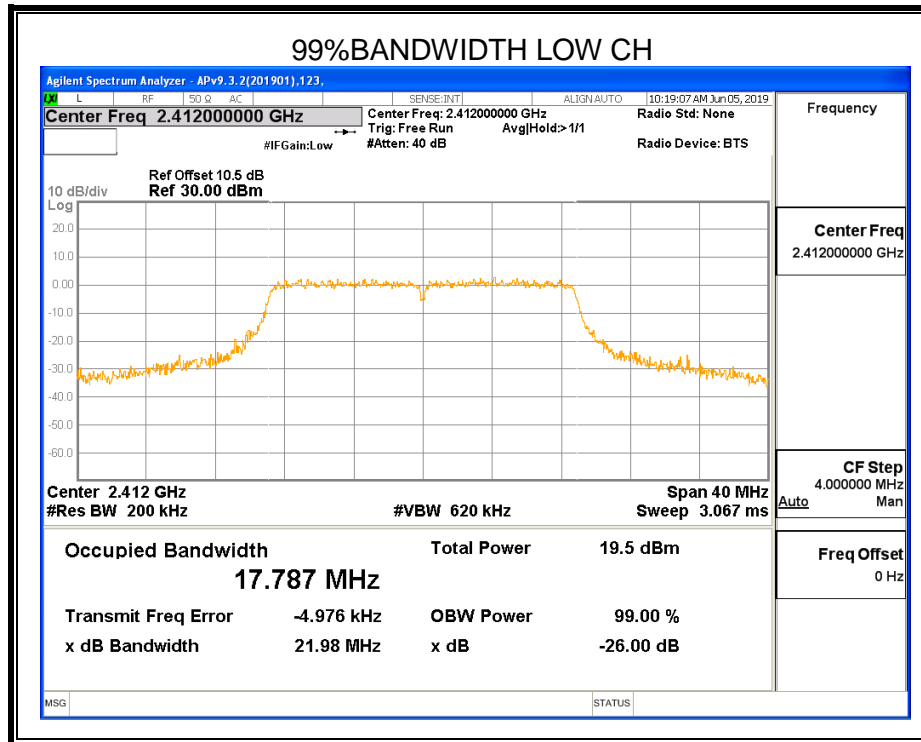
8.2.3. 802.11n HT20 MODE

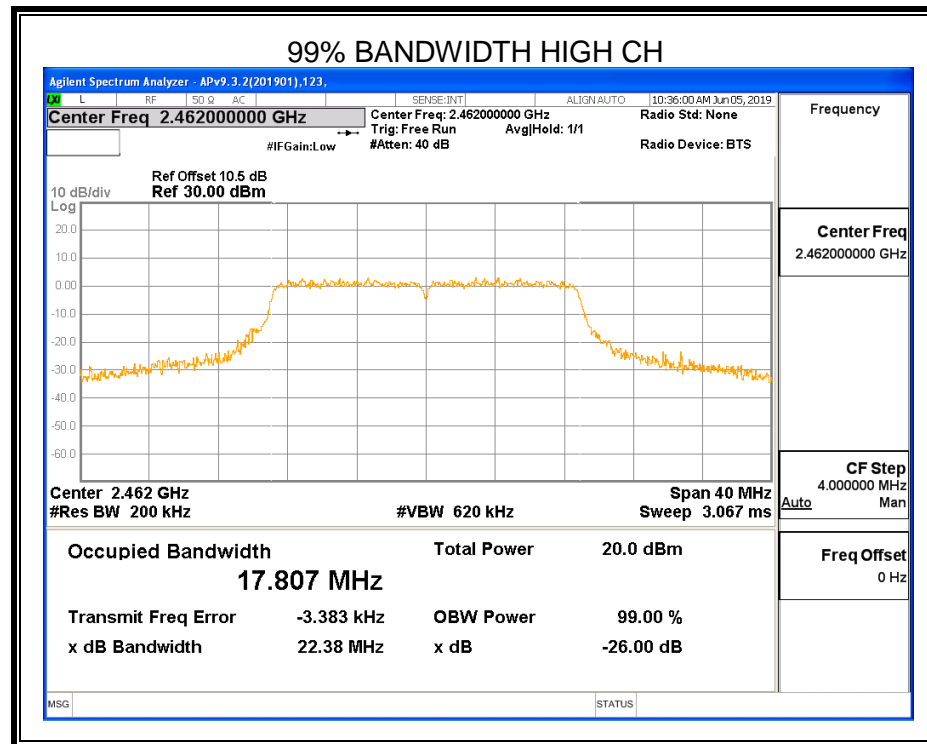
ANTENNA 1

Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Limit (kHz)	Result
Low	17.84	17.787	≥500	Pass
Middle	17.76	17.809	≥500	Pass
High	17.68	17.807	≥500	Pass







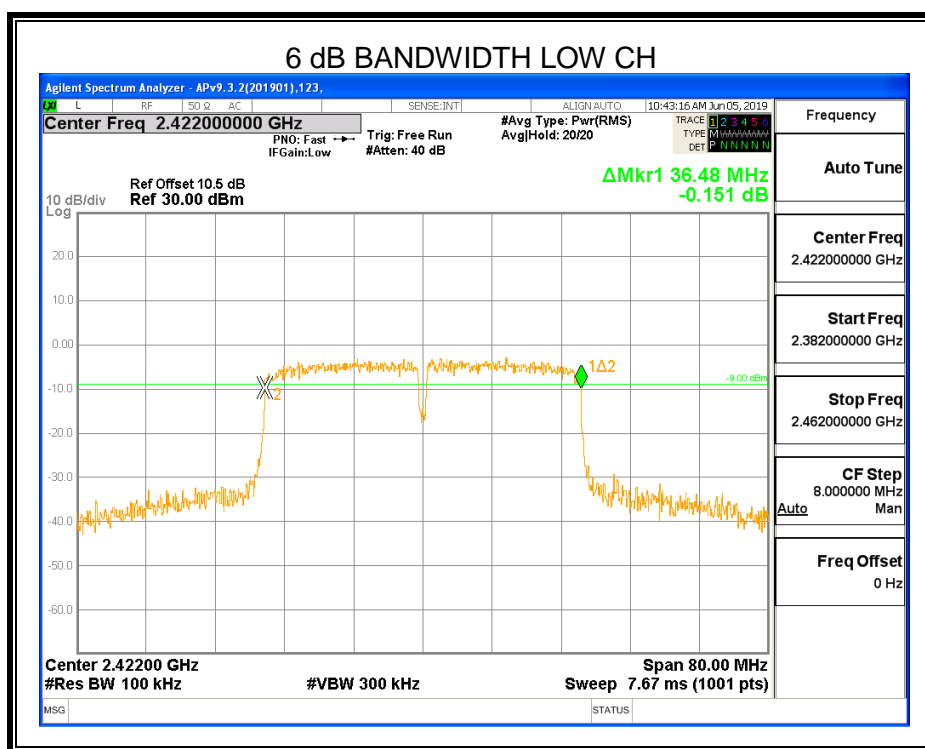


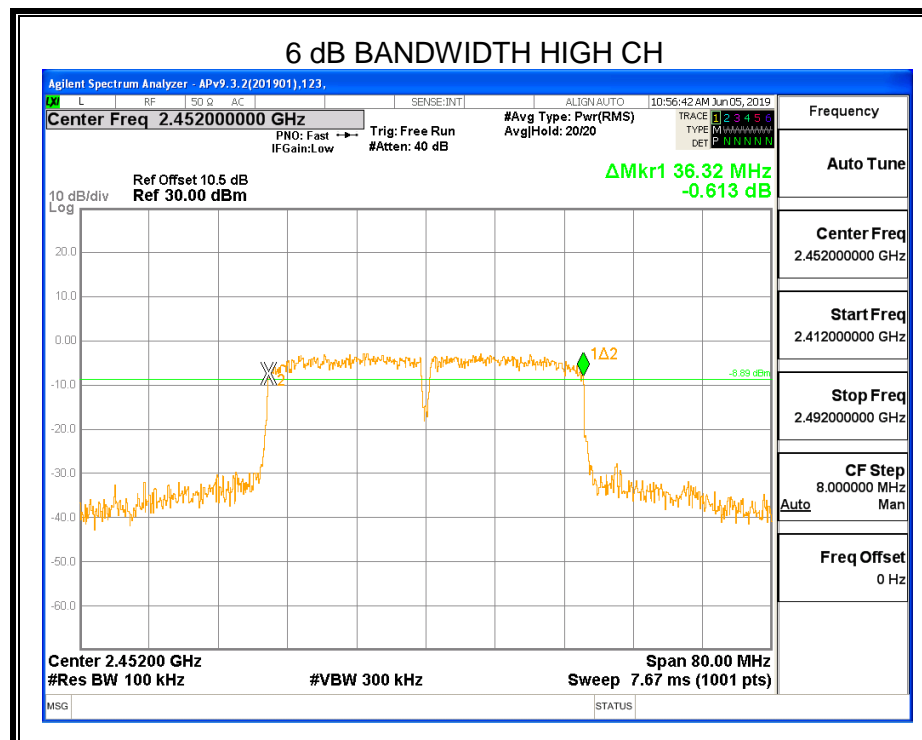
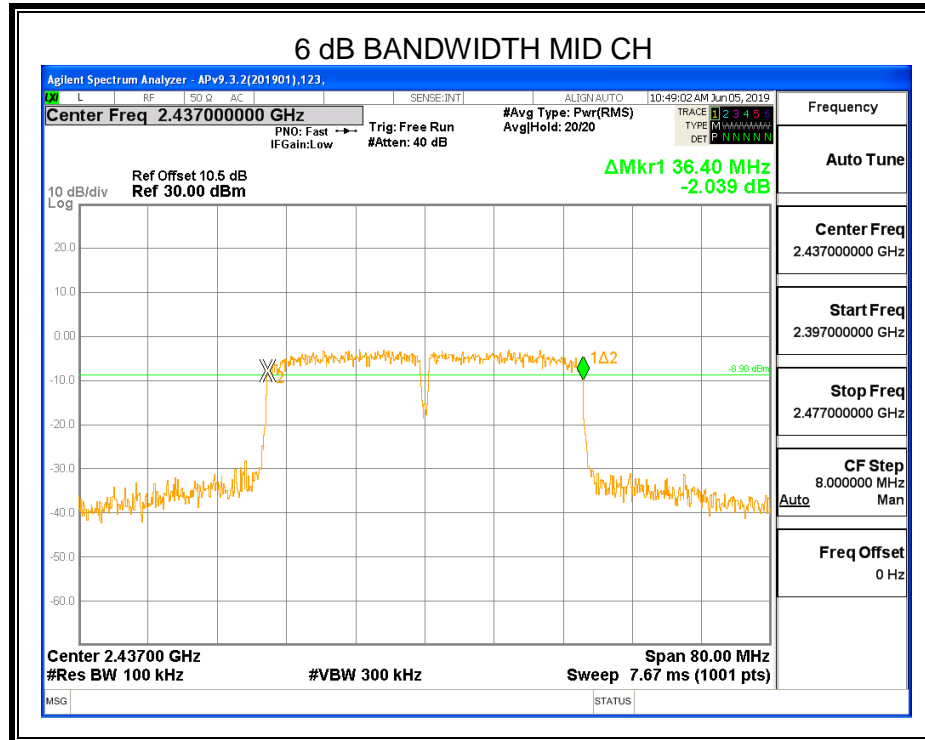


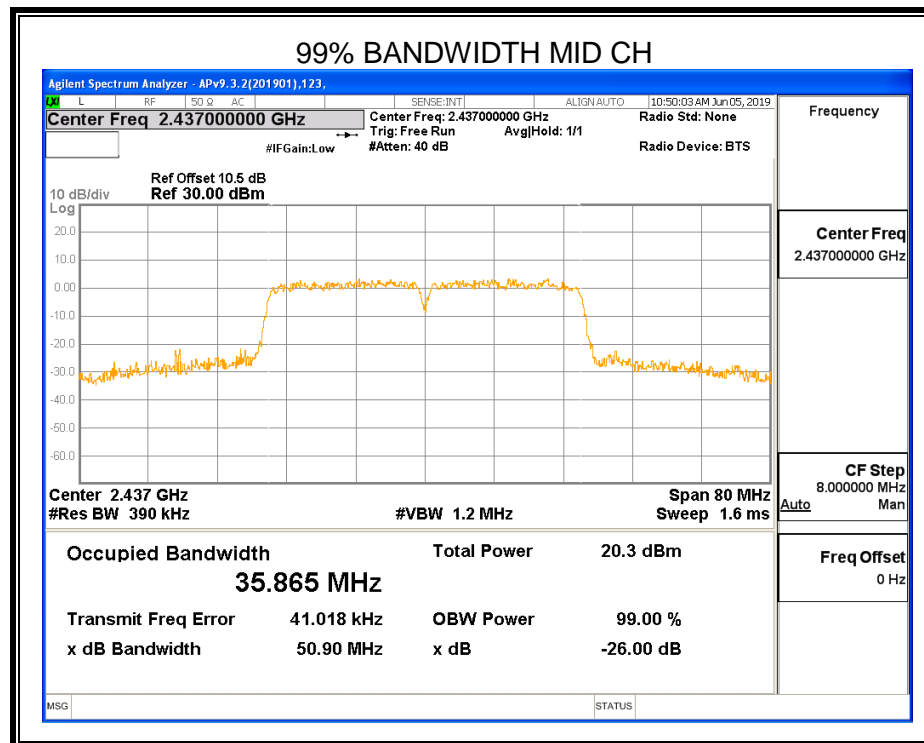
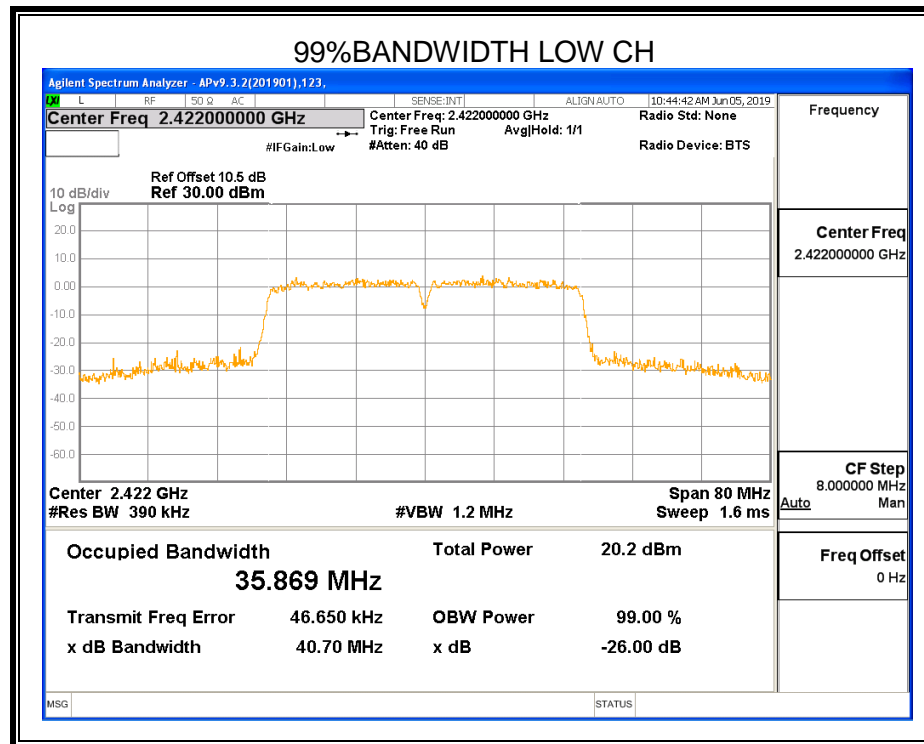
8.2.4. 802.11n HT40 MODE

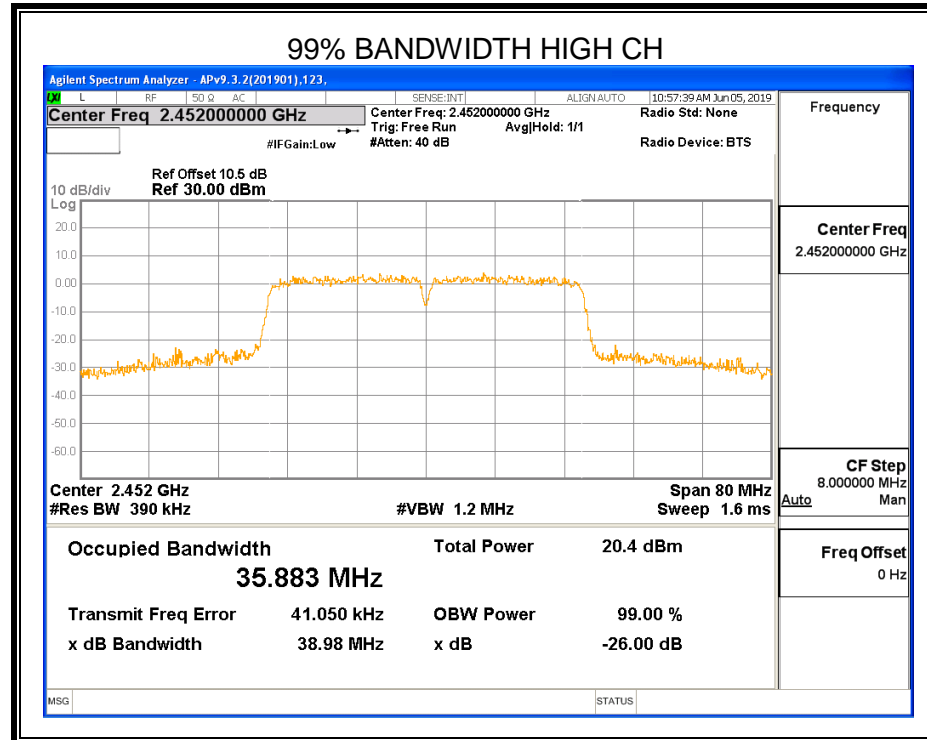
ANTENNA 1

Channel	6dB bandwidth (MHz)	99% bandwidth (MHz)	Limit (kHz)	Result
Low	36.48	35.869	≥500	Pass
Middle	36.40	35.865	≥500	Pass
High	36.32	35.883	≥500	Pass











8.3. PEAK CONDUCTED OUTPUT POWER

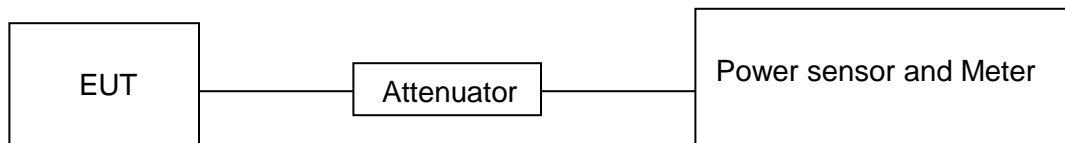
LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3)	Peak Output Power	1 watt or 30dBm (See Note 1/2)	2400-2483.5
1. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi. 2. Limit=30dBm – (Directional gain -6)dBi Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi, where N_{ANT} is the number of outputs, G_{ANT} is the Antenna gain.			

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.
Measure peak power each channel.
Peak Detector use for Peak result.
AVG Detector use for AVG result.

TEST SETUP



TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V/50Hz



RESULTS

8.3.1. 802.11b MODE

Test Channel	Maximum Conducted Output Power (PK)	Maximum Conducted Output Power(AV)	LIMIT
	(dBm)	(dBm)	dBm
Low	19.10	16.02	30
Middle	19.78	16.78	30
High	19.86	16.88	30

8.3.2. 802.11g MODE

Test Channel	Maximum Conducted Output Power (PK)	Maximum Conducted Output Power(AV)	LIMIT
	(dBm)	(dBm)	dBm
Low	22.34	14.97	30
Middle	22.58	15.14	30
High	21.94	14.37	30

8.3.3. 802.11n HT20 MODE

Test Channel	Maximum Conducted Output Power (PK)	Maximum Conducted Output Power(AV)	LIMIT
	(dBm)	(dBm)	dBm
Low	21.41	13.63	30
Middle	21.73	13.93	30
High	20.84	13.03	30

8.3.4. 802.11 n HT40 MODE

Test Channel	Maximum Conducted Output Power (PK)	Maximum Conducted Output Power(AV)	LIMIT
	(dBm)	(dBm)	dBm
Low	21.34	13.54	30
Middle	21.46	13.57	30
High	20.54	12.74	30



8.4. POWER SPECTRAL DENSITY

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e)	Power Spectral Density	8 dBm/3 kHz (See Note 1/2)	2400-2483.5
<p>1. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.</p> <p>2. Limit=8dBm – (Directional gain -6) dBi Directional gain = $G_{ANT} + 10 \log (N_{ANT})$ dBi, where N_{ANT} is the number of outputs, G_{ANT} is the Antenna gain.</p>			

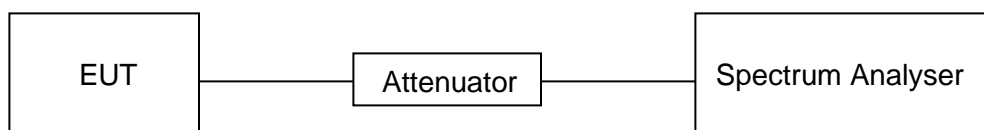
TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	$3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.
If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST SETUP



TEST ENVIRONMENT

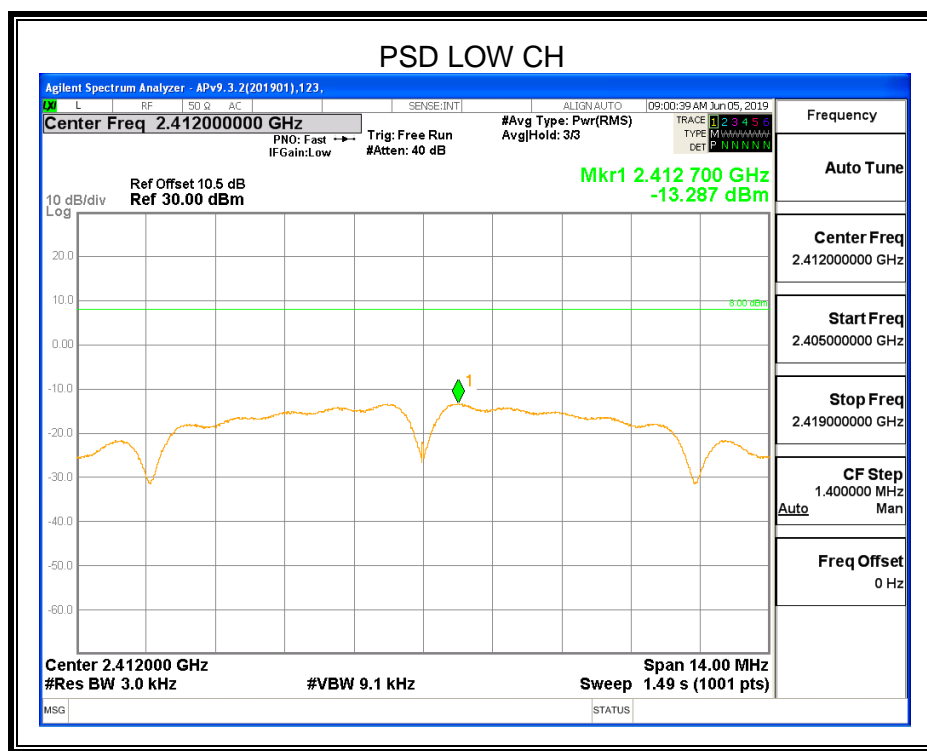


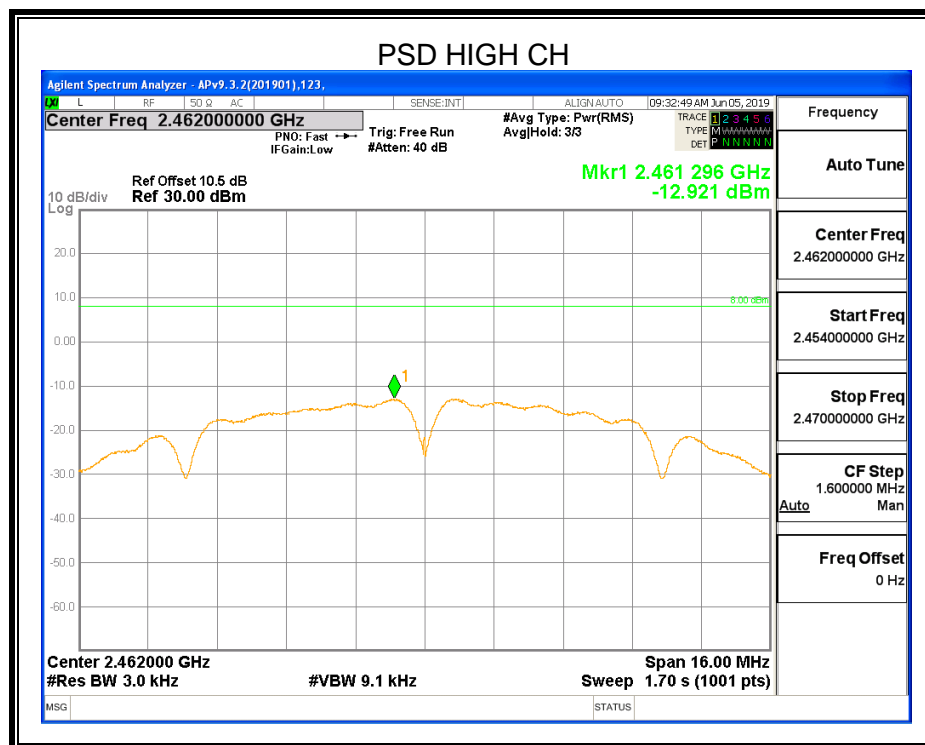
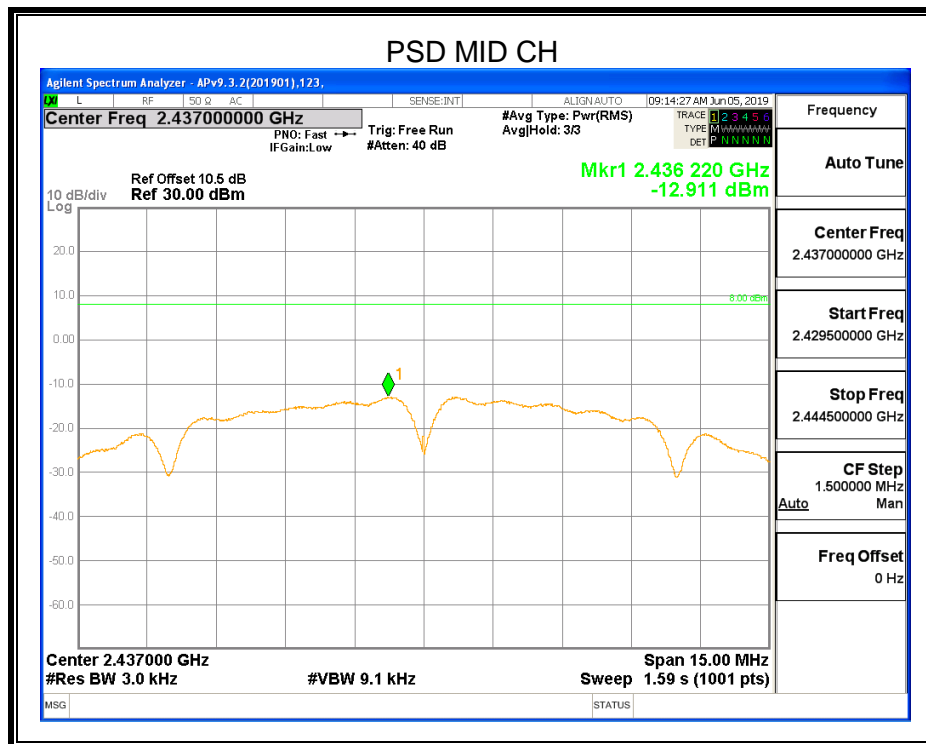
Temperature	24.1°C	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V/50HZ

RESULTS

8.4.1. 802.11b MODE

Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-13.287	8	PASS
Middle	-12.911	8	PASS
High	-12.921	8	PASS

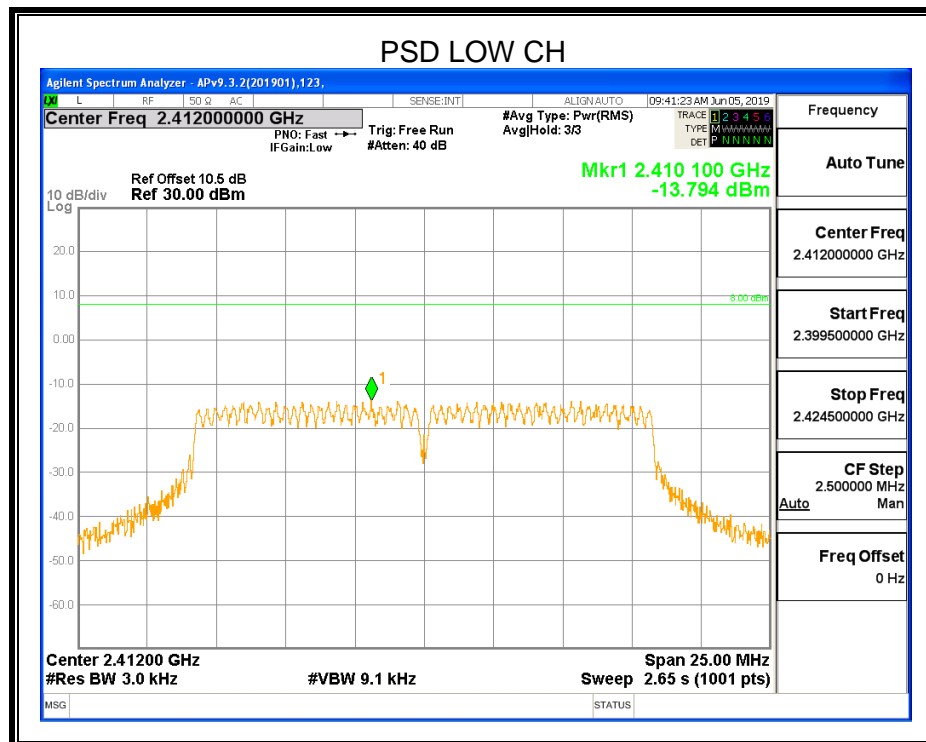


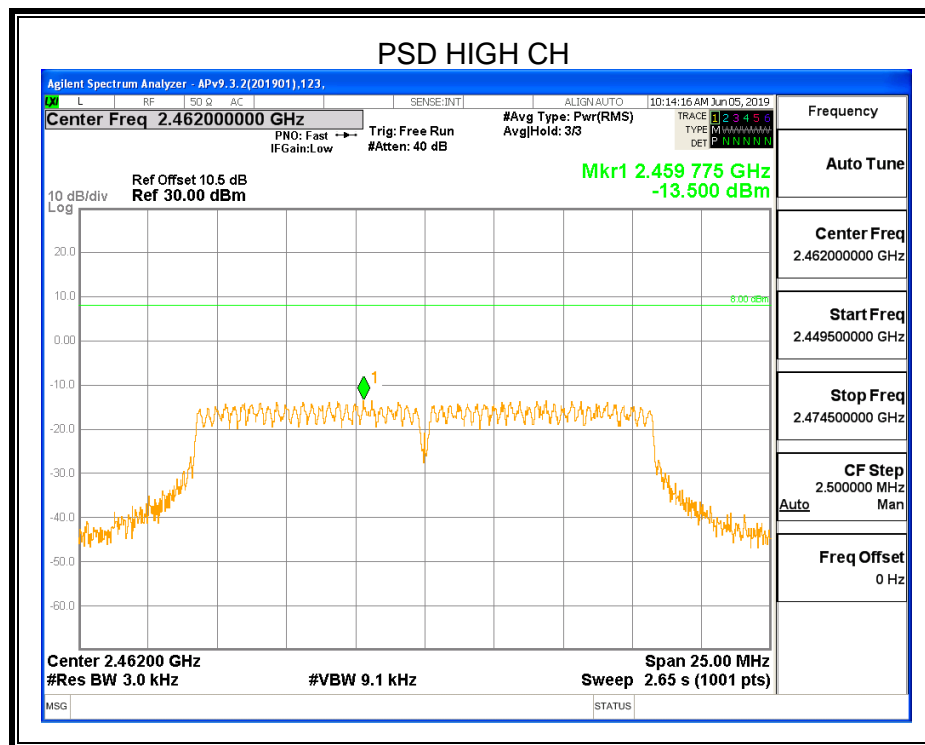
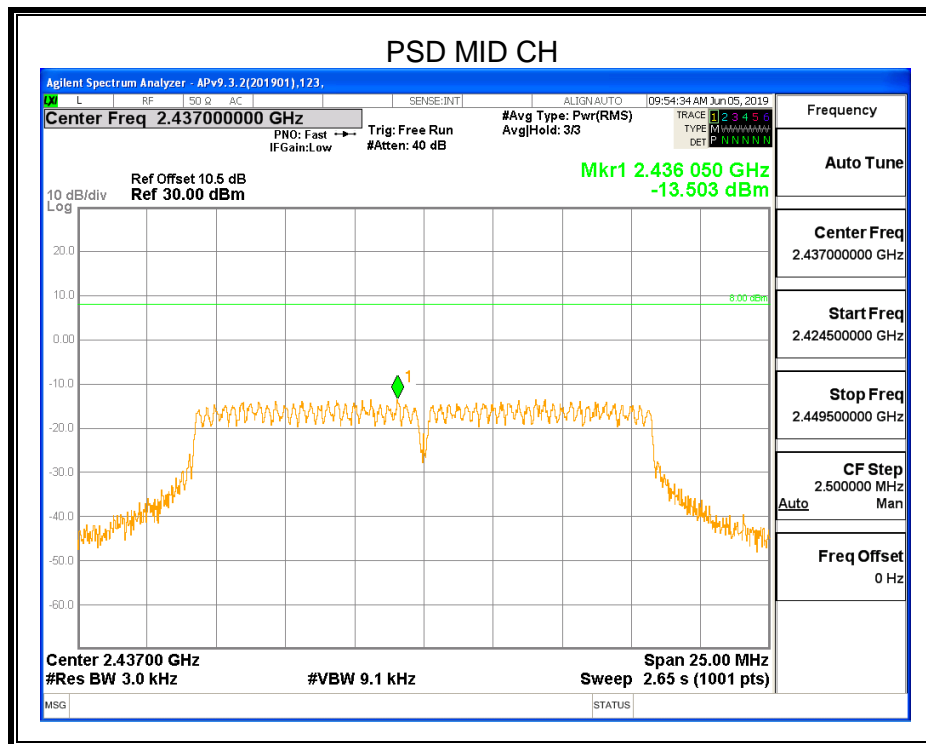




8.4.2. 802.11g MODE

Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-13.794	8	PASS
Middle	-13.503	8	PASS
High	-13.500	8	PASS

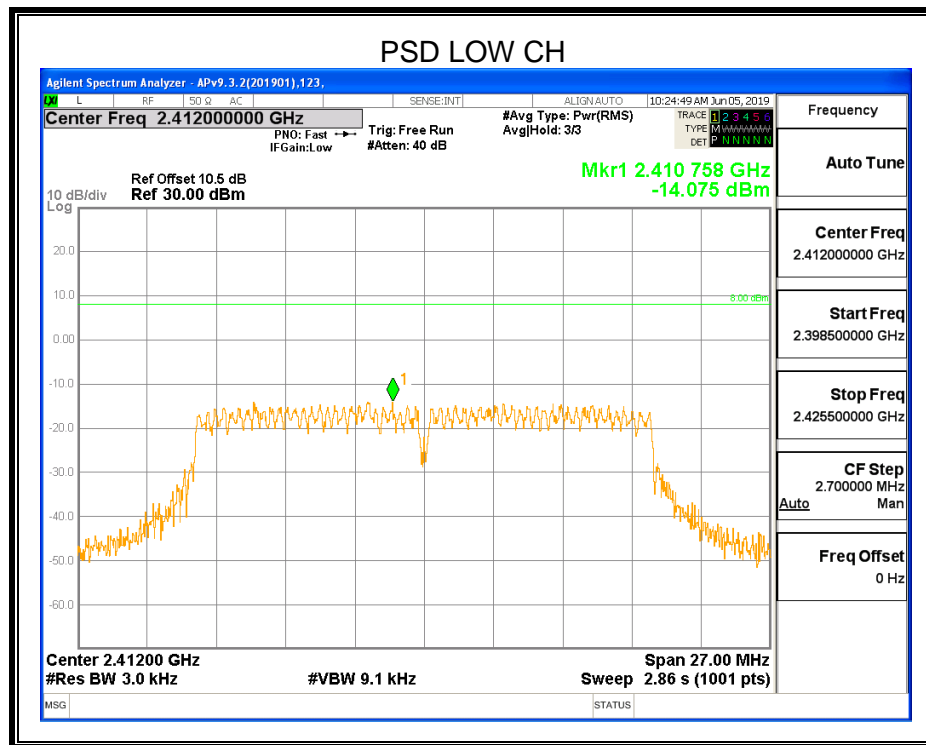


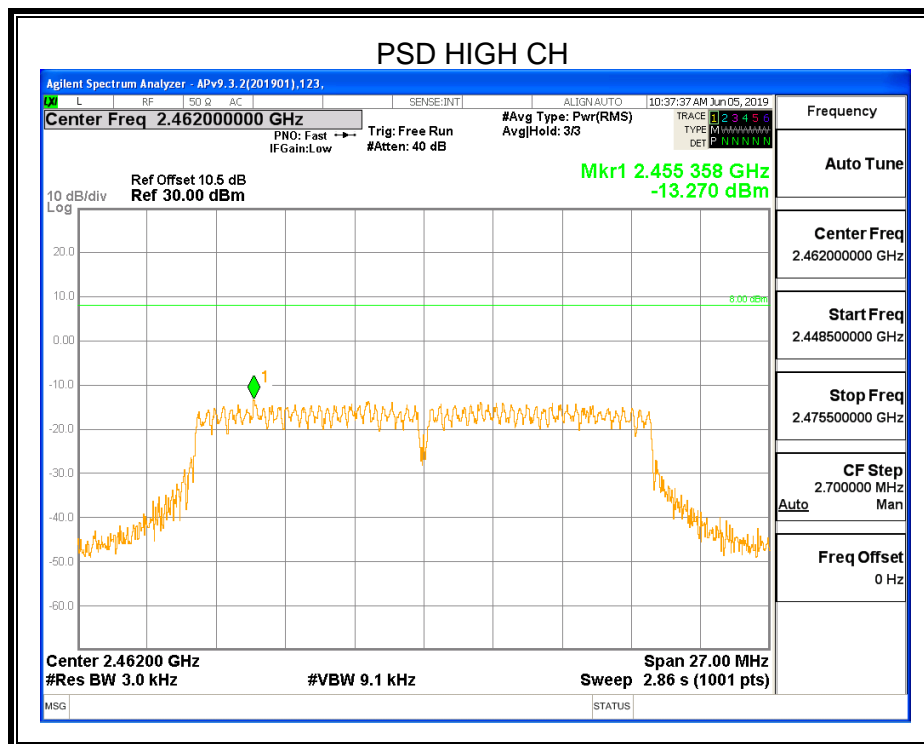
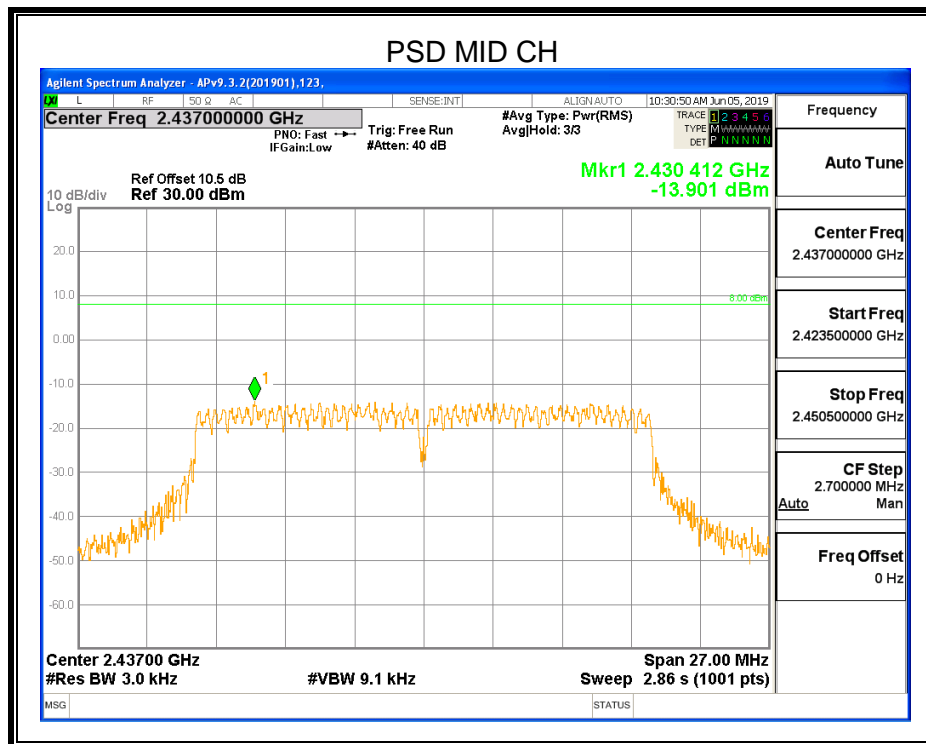




8.4.3. 802.11n HT20 MODE

Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-14.075	8	PASS
Middle	-13.901	8	PASS
High	-13.270	8	PASS

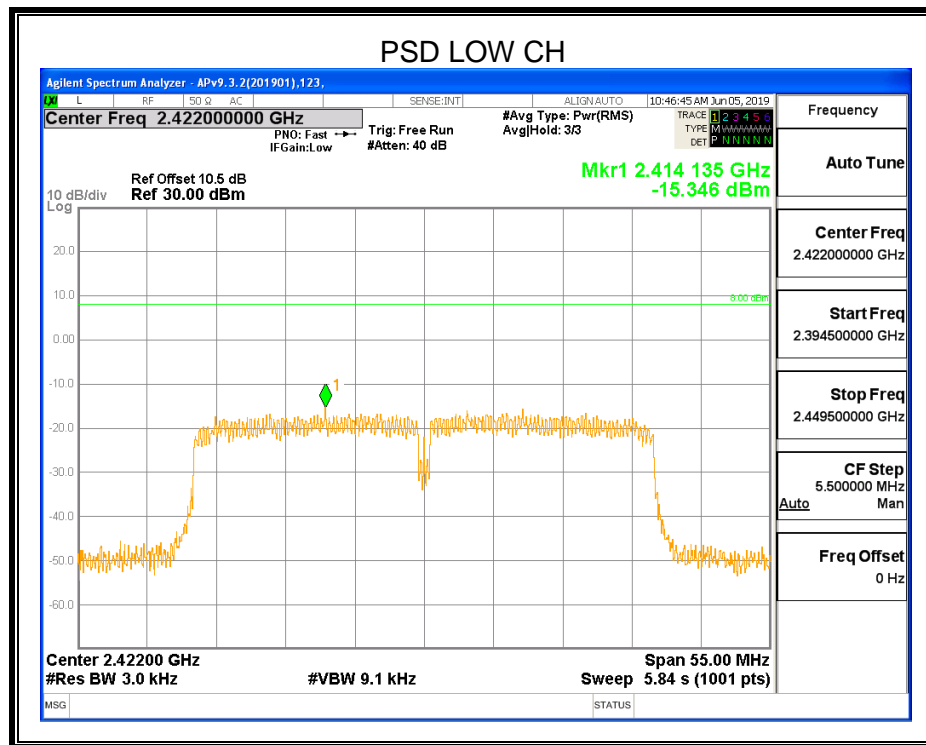


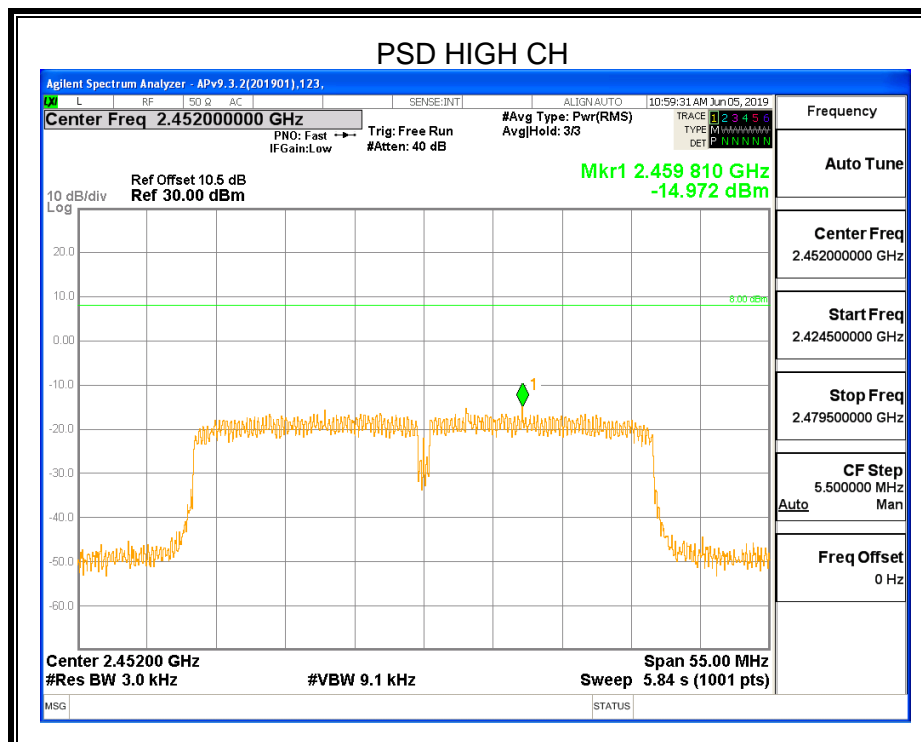
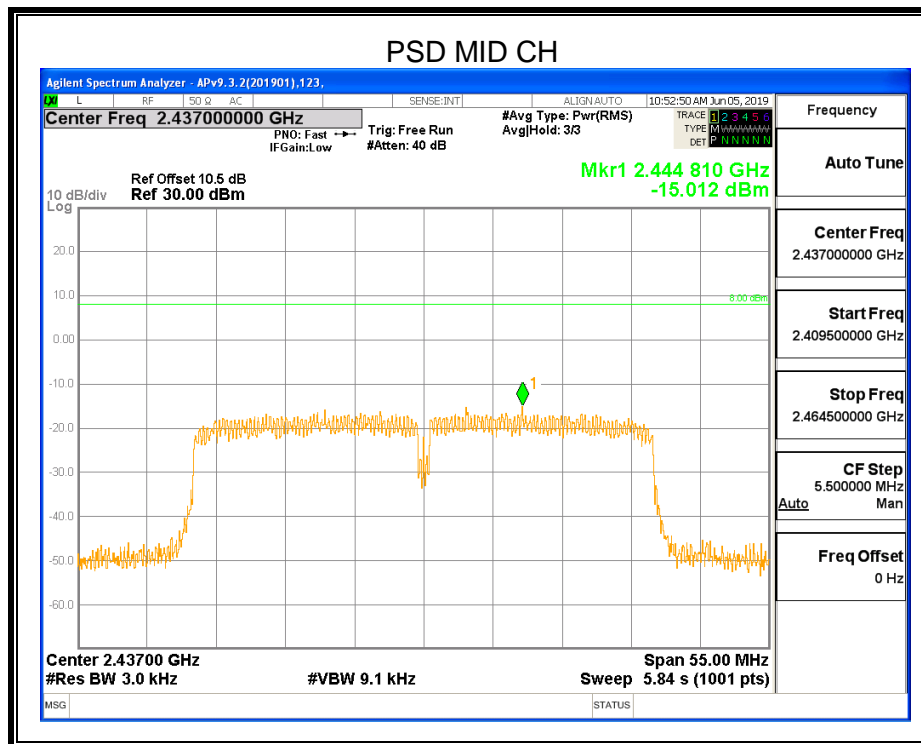




8.4.4. 802.11n HT40 MODE

Test Channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low	-15.346	8	PASS
Middle	-15.012	8	PASS
High	-14.972	8	PASS







8.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

CFR 47 FCC Part15 (15.247) Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Bandedge and Spurious Emissions	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

TEST PROCEDURE

Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

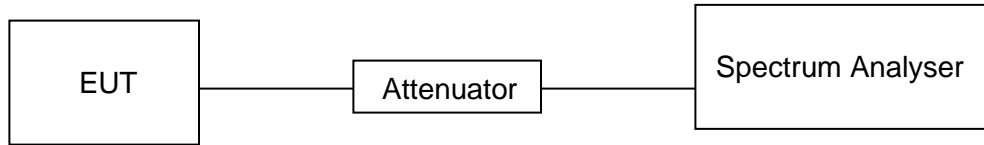
Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100K
VBW	$\geq 3 \times \text{RBW}$
measurement points	$\geq \text{span}/\text{RBW}$
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.



TEST SETUP



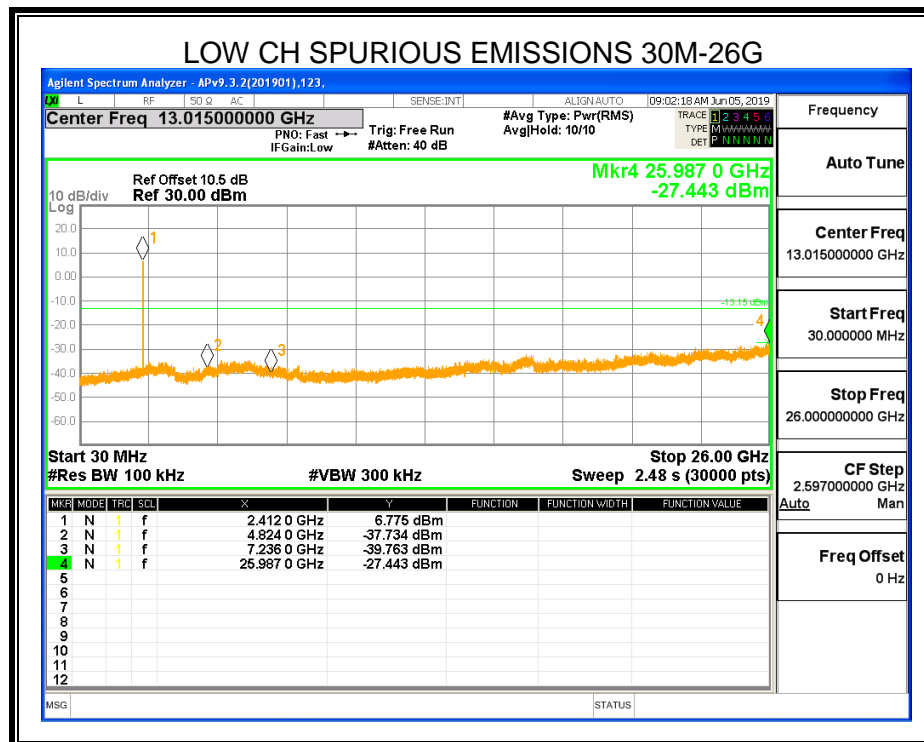
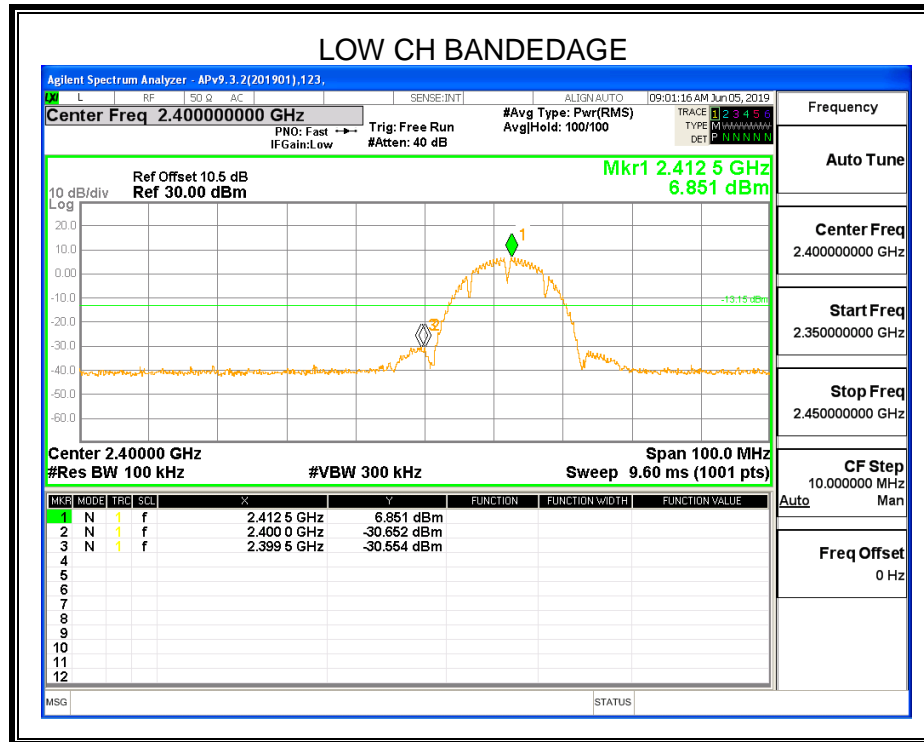
TEST ENVIRONMENT

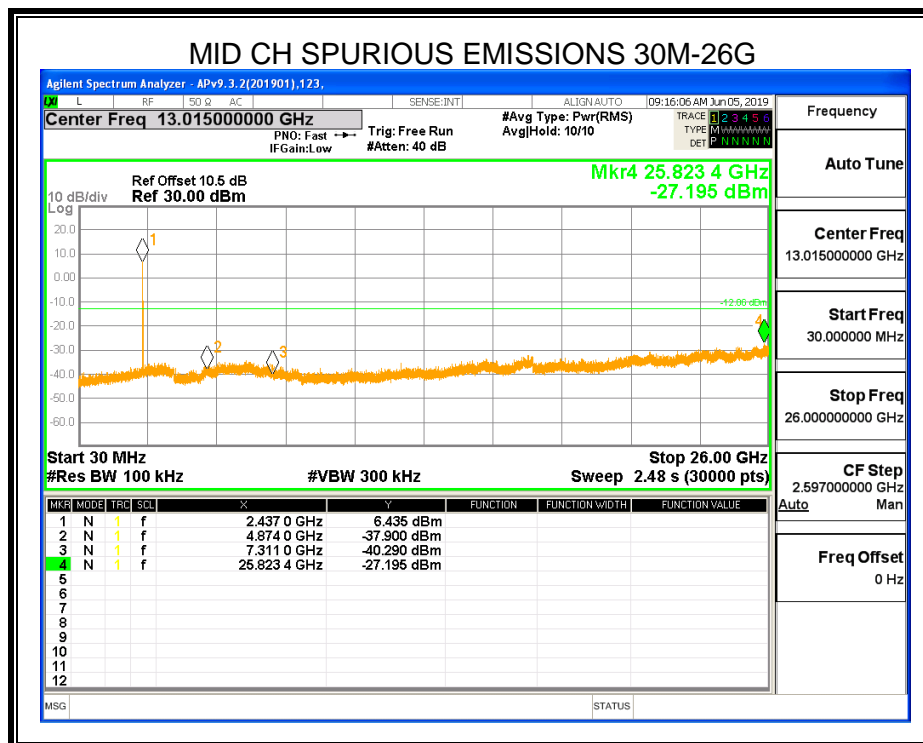
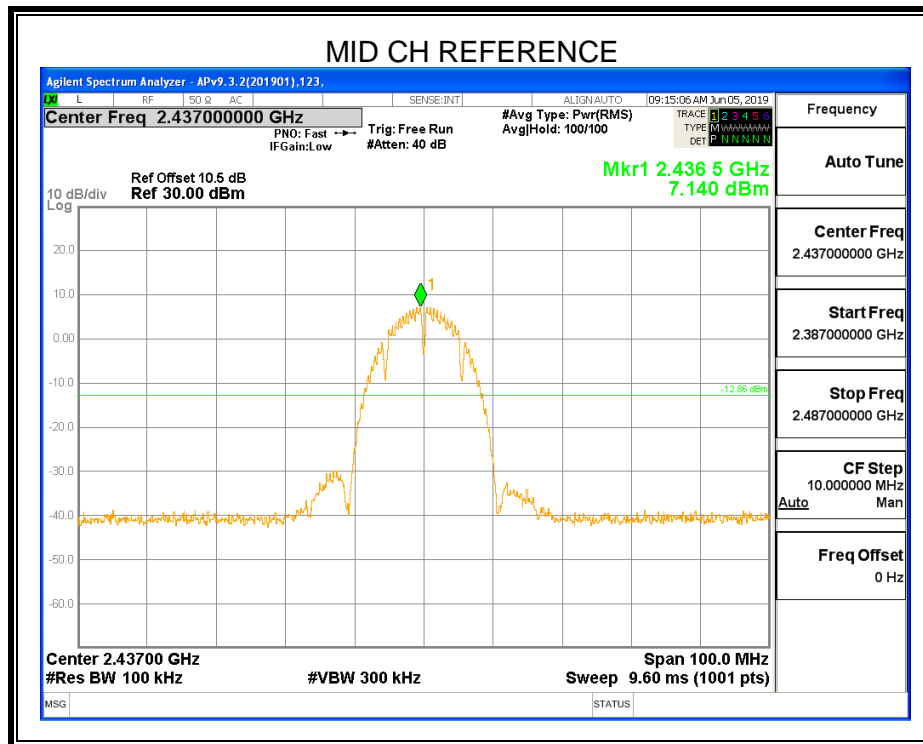
Temperature	24.1°C	Relative Humidity	63%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V/50HZ

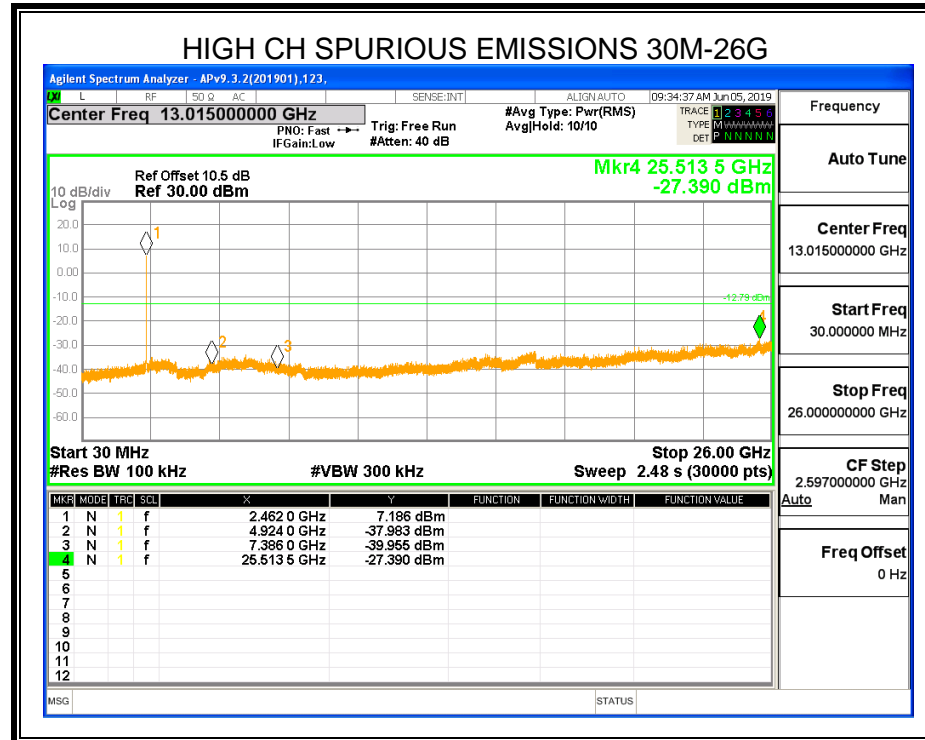
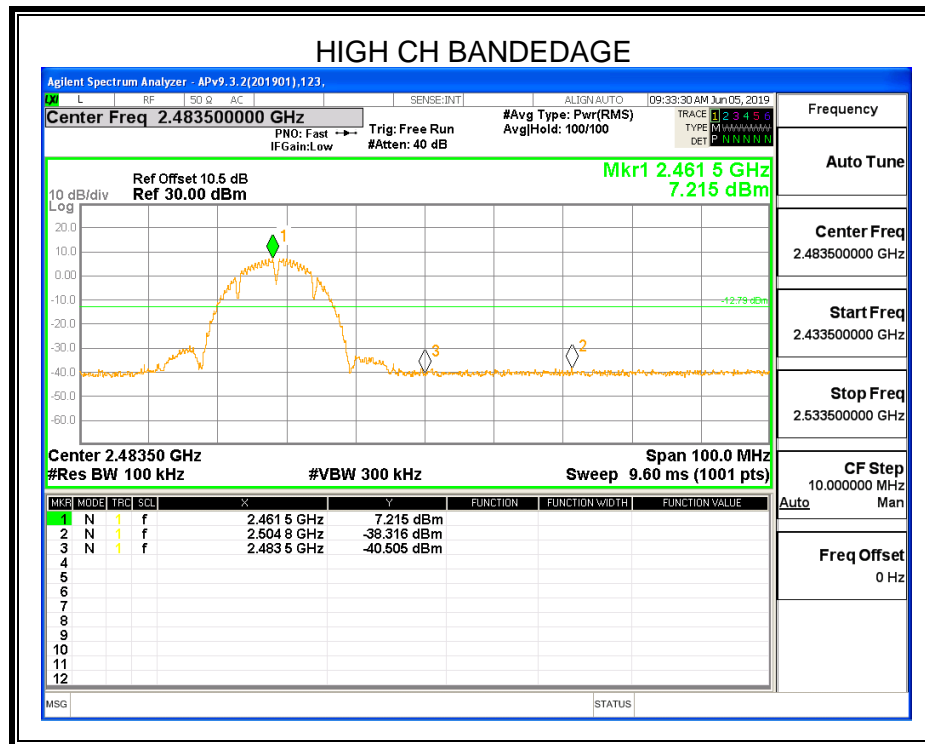
RESULTS



8.5.1. 802.11b MODE

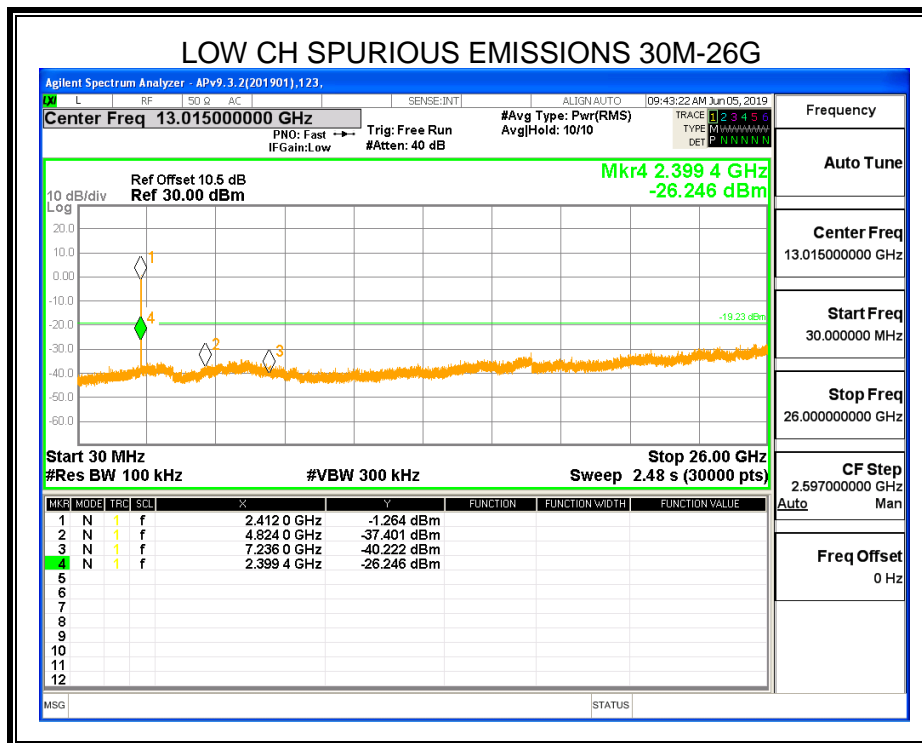
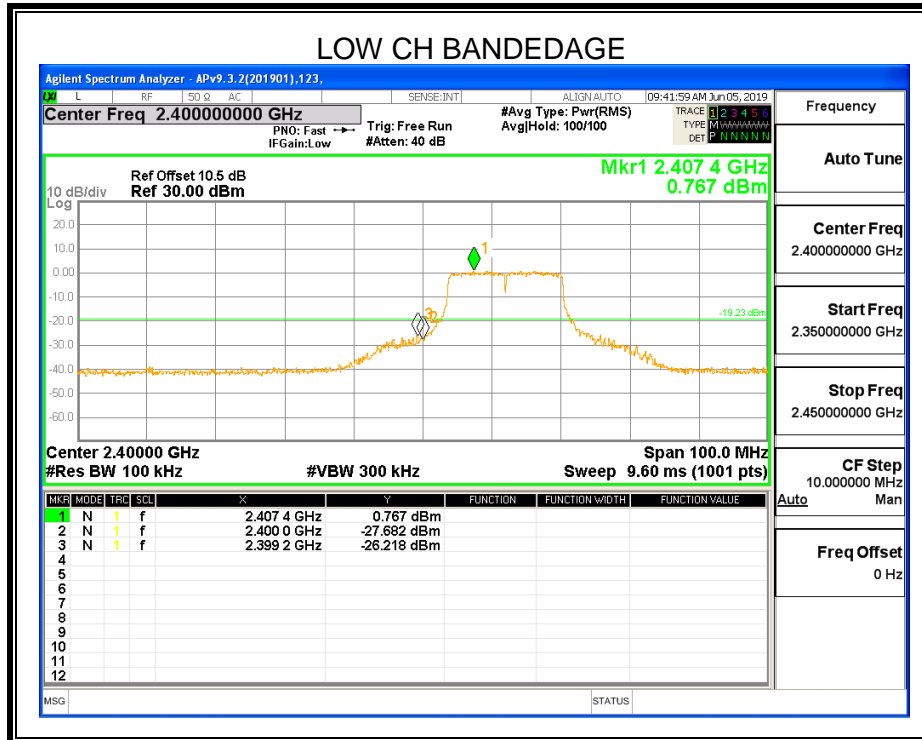


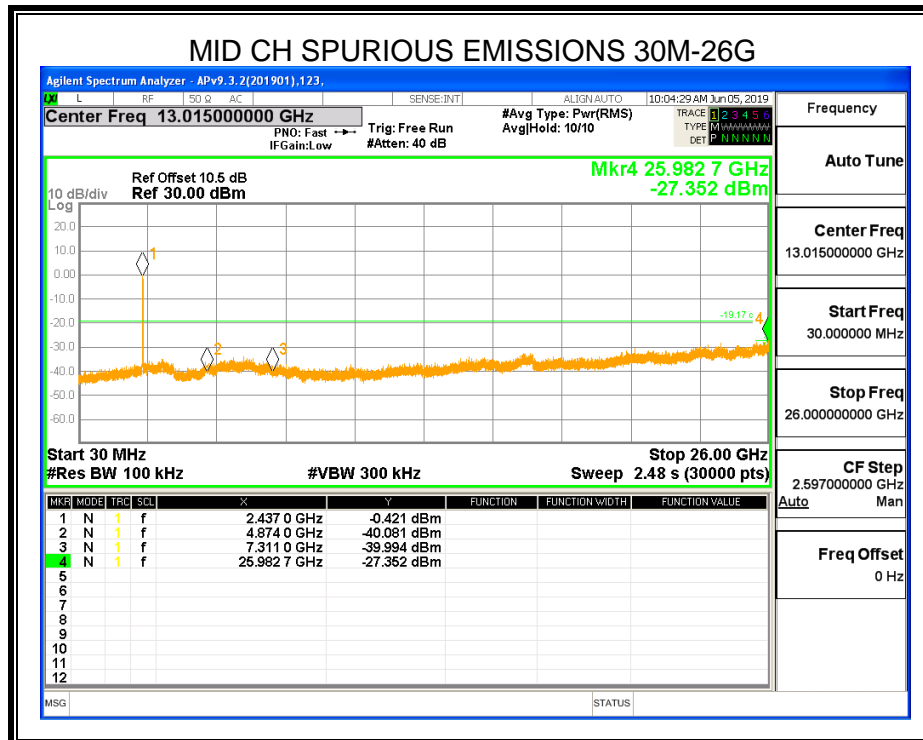
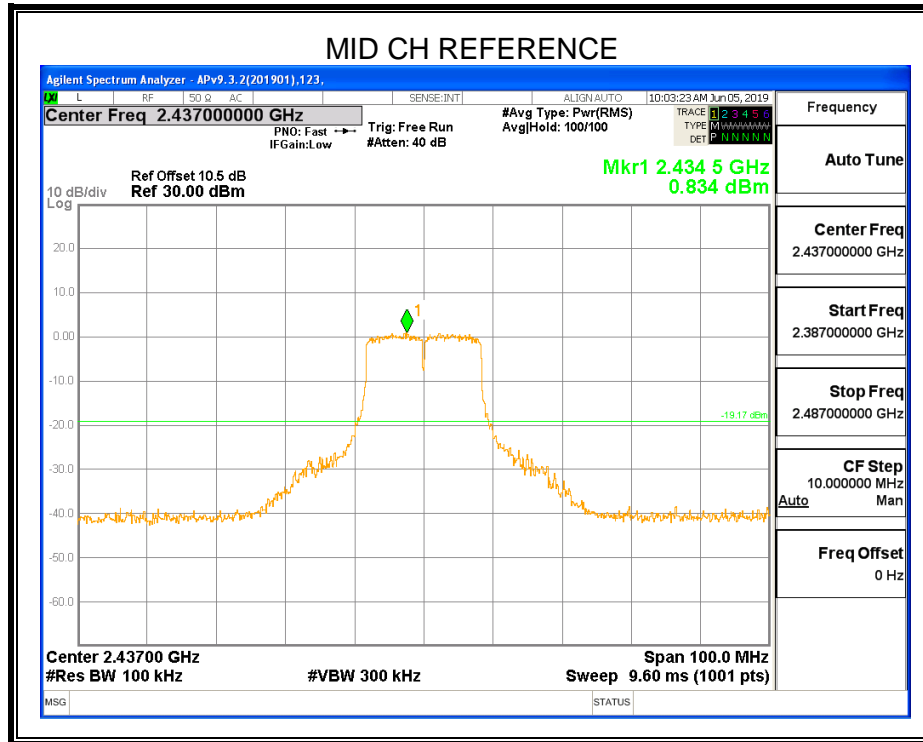


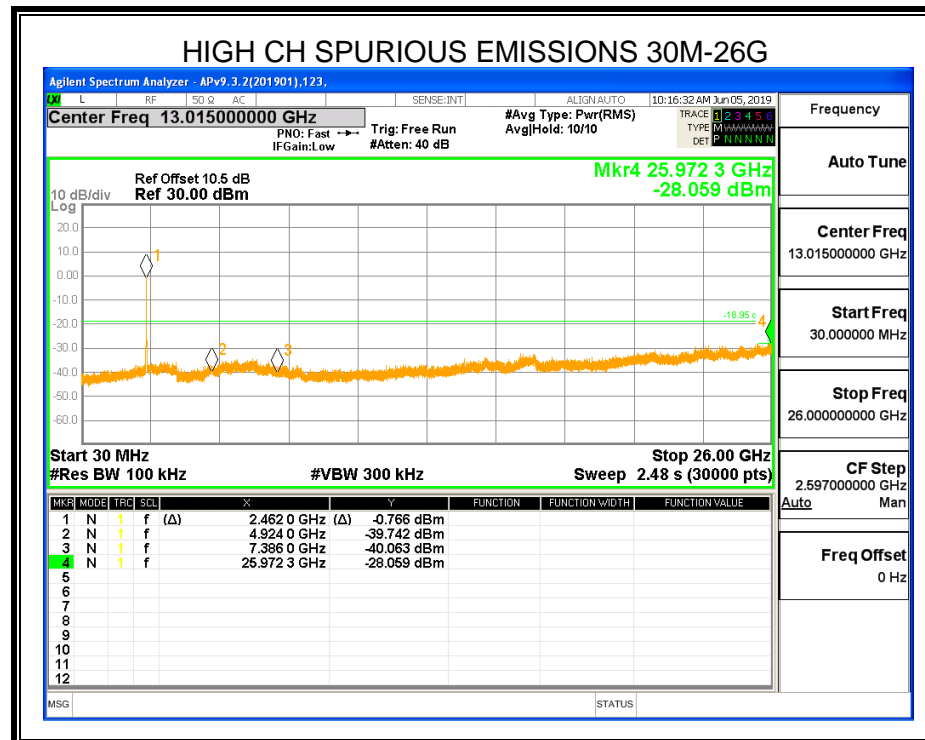
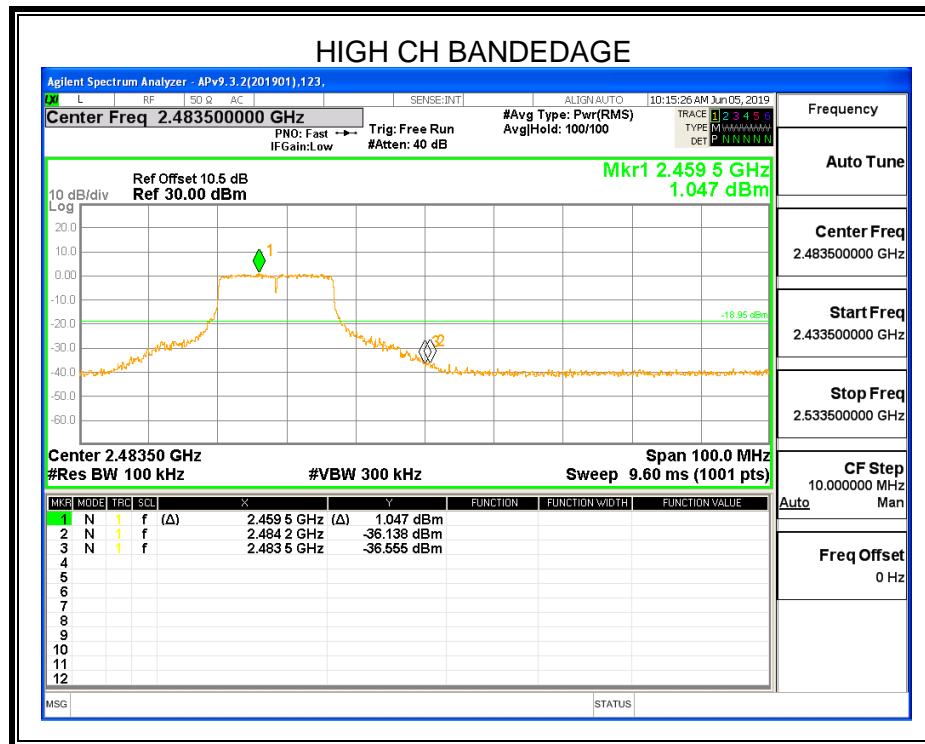




8.5.2. 802.11g MODE

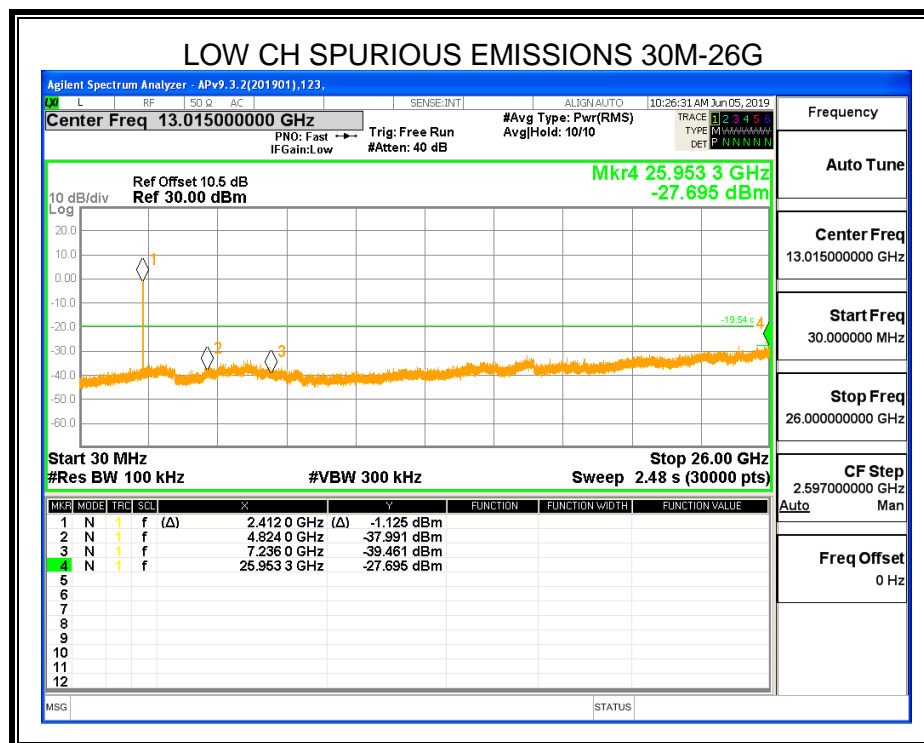
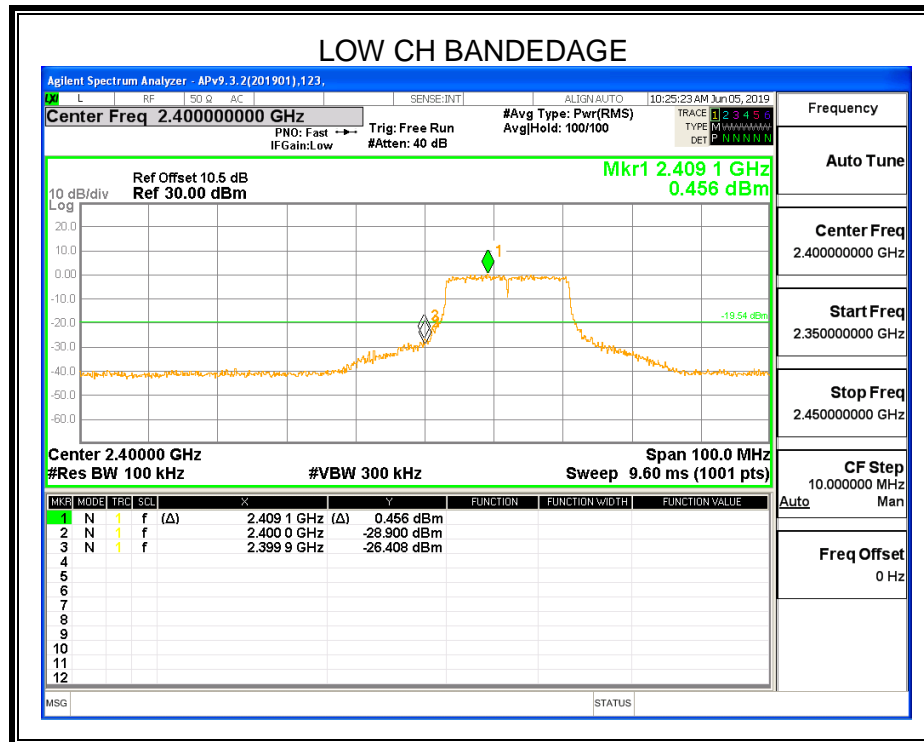


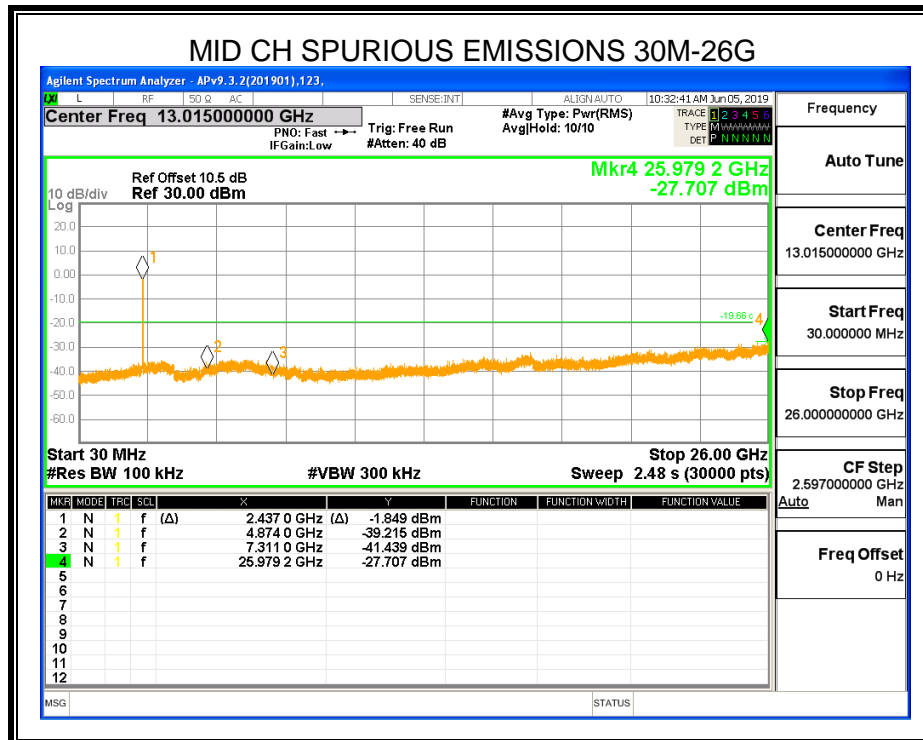
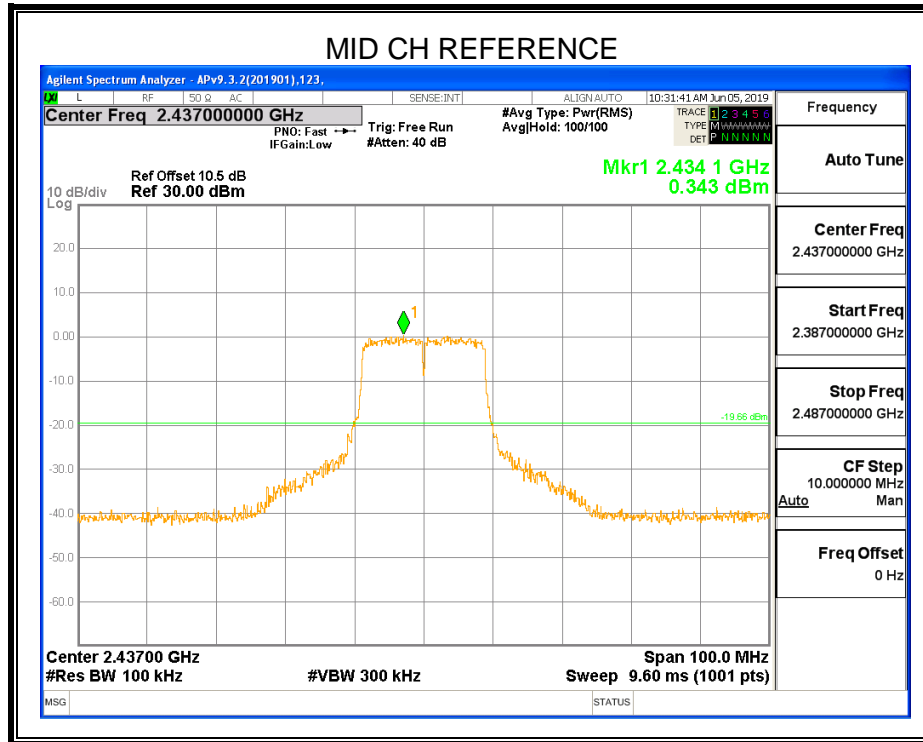


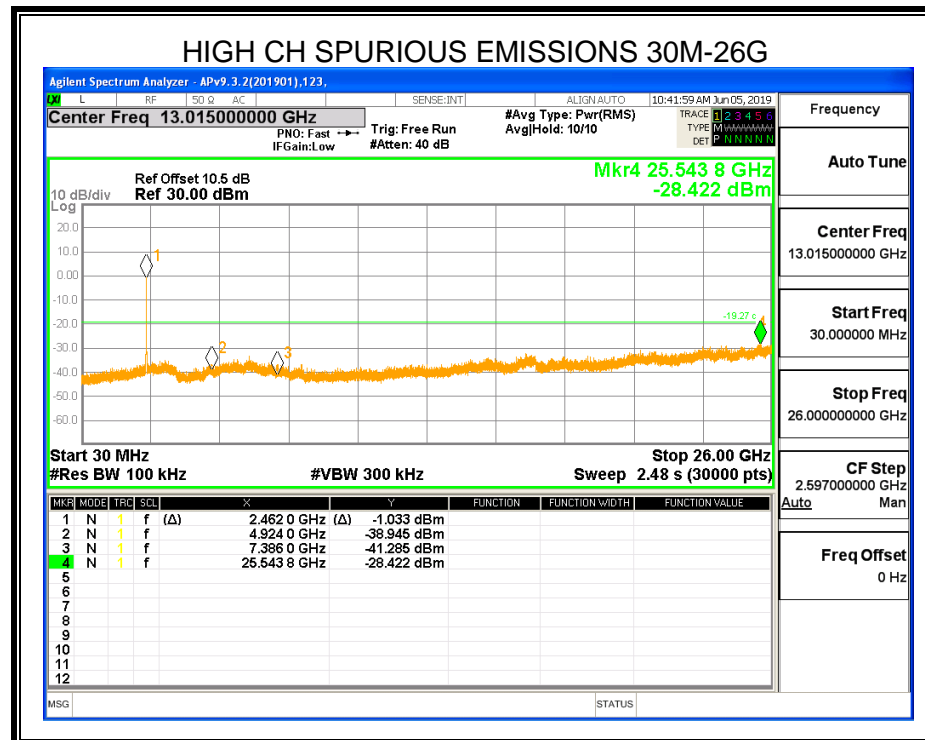
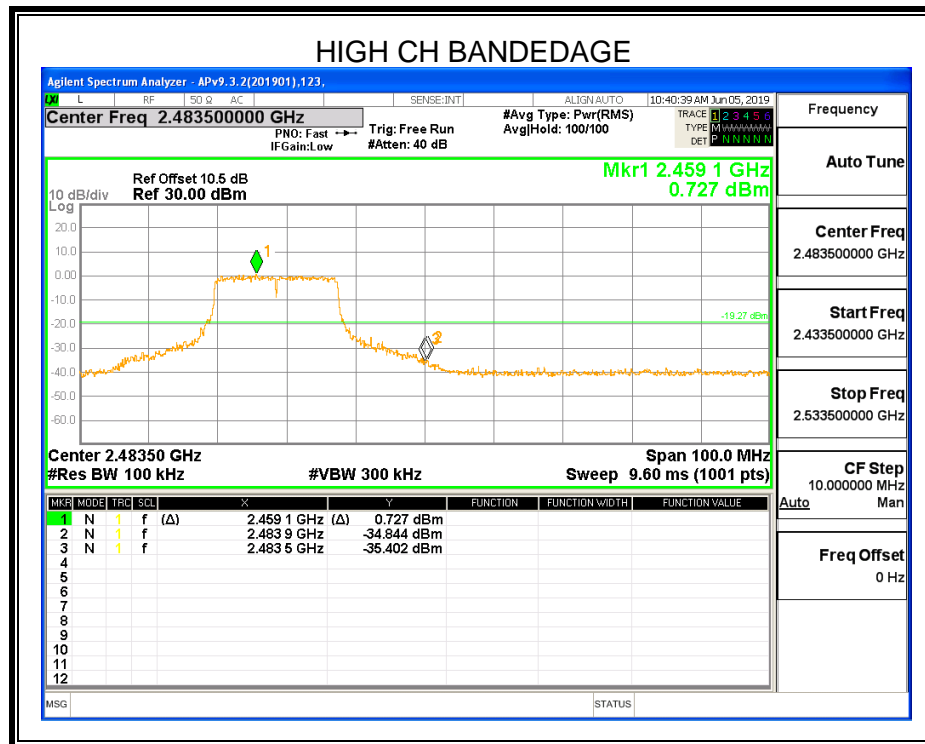




8.5.3. 802.11n HT20 MODE

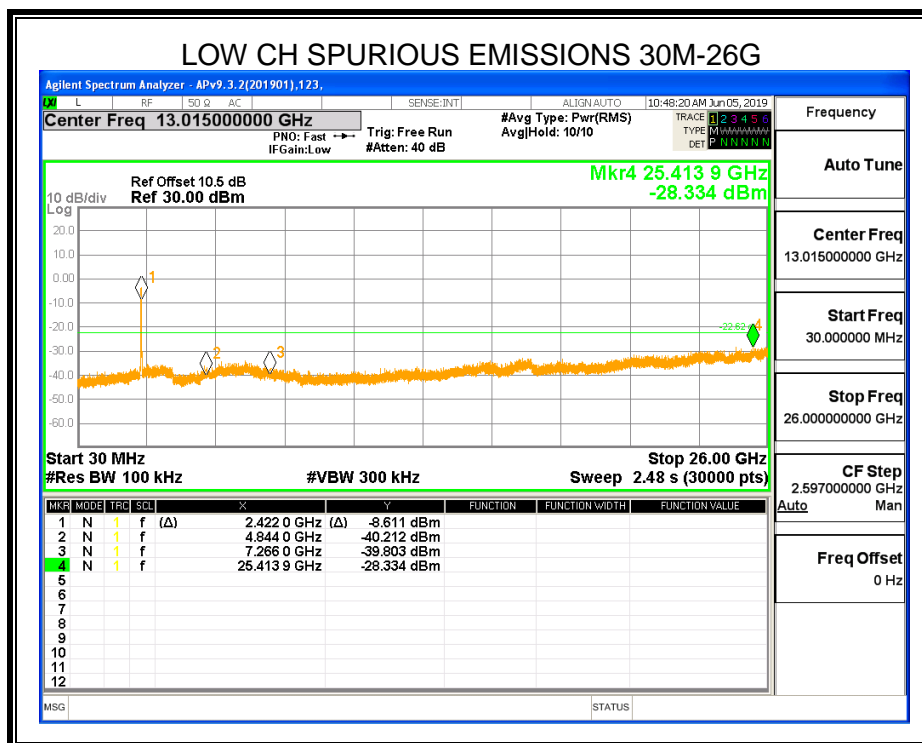
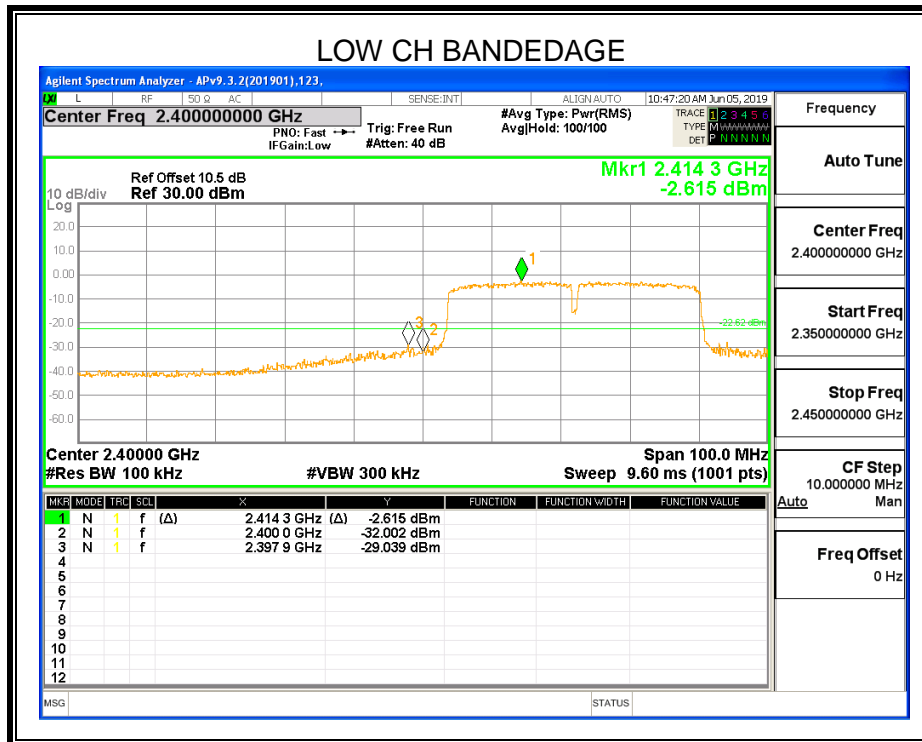


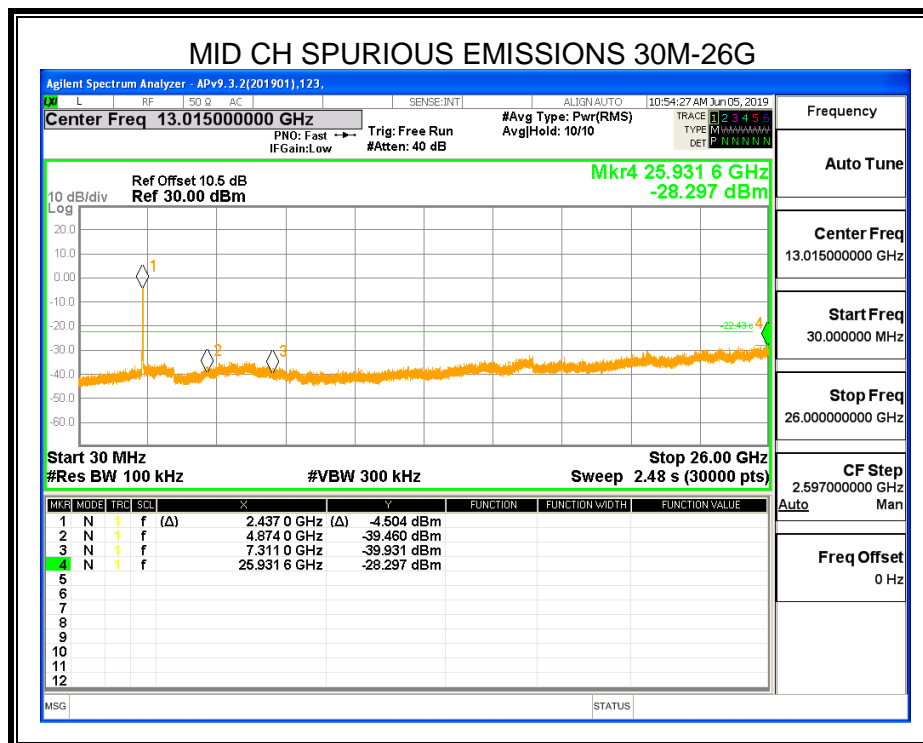
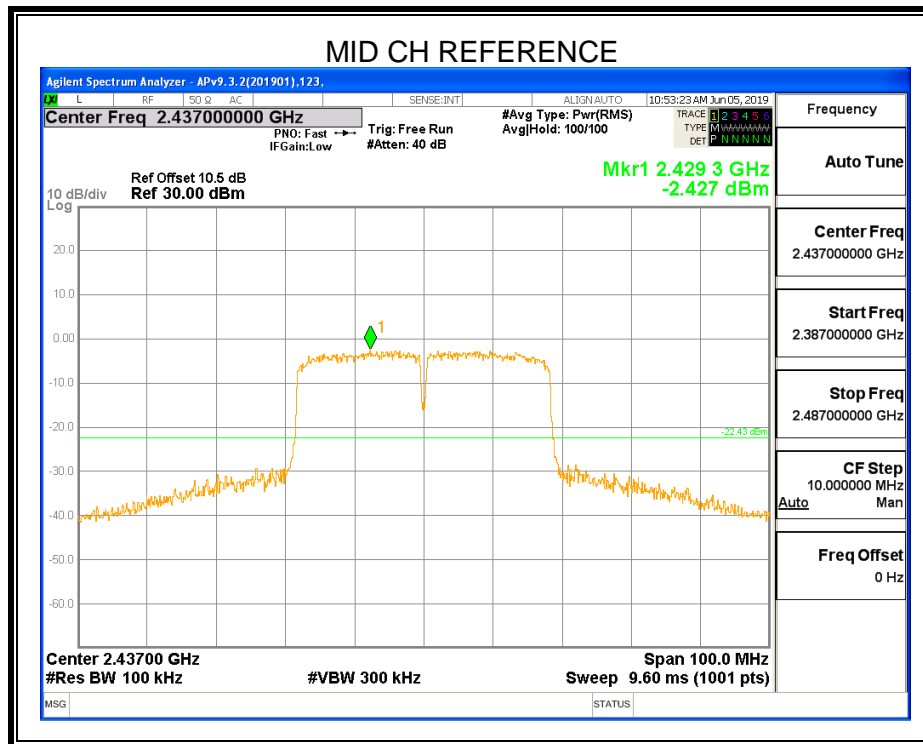


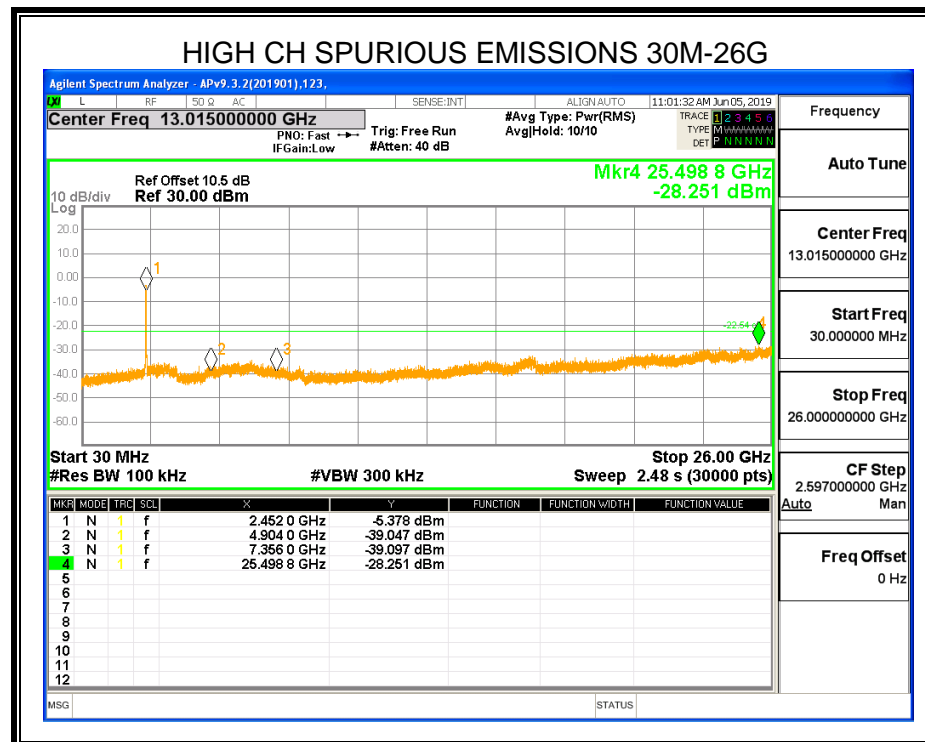
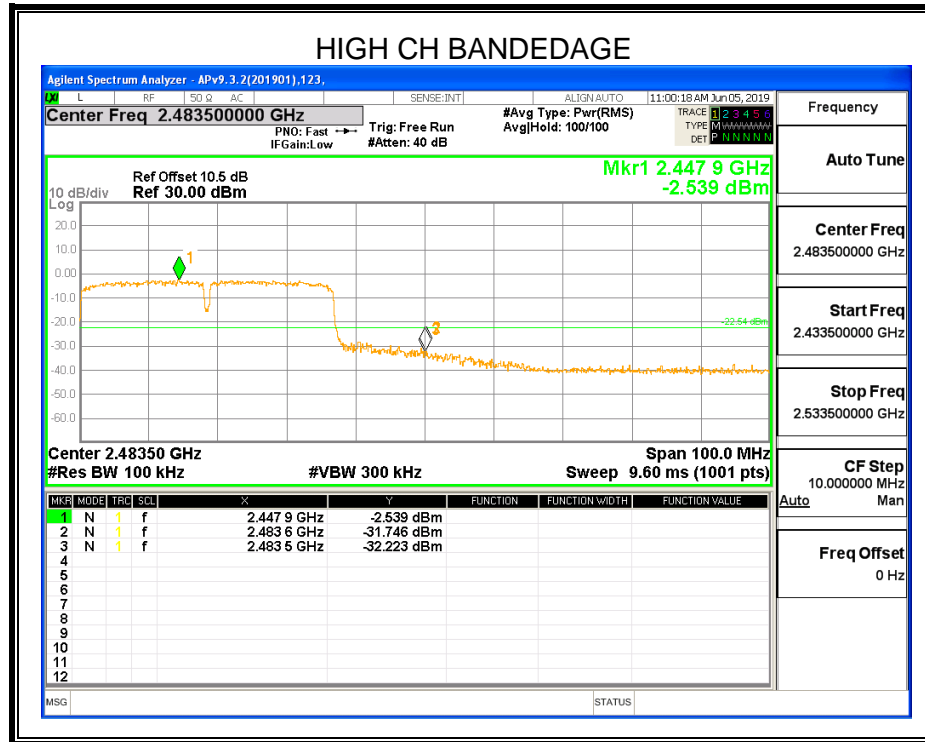




8.5.4. 802.11n HT40 MODE









9. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, 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. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.



Radiation Disturbance Test Limit for FCC (Above 1G)

Frequency (MHz)	dB(uV/m) (at 3 meters)	
	Peak	Average
Above 1000	74	54

IC Restricted bands please refer to ISSED RSS-GEN Clause 8.10

FCC Restricted bands of operation:

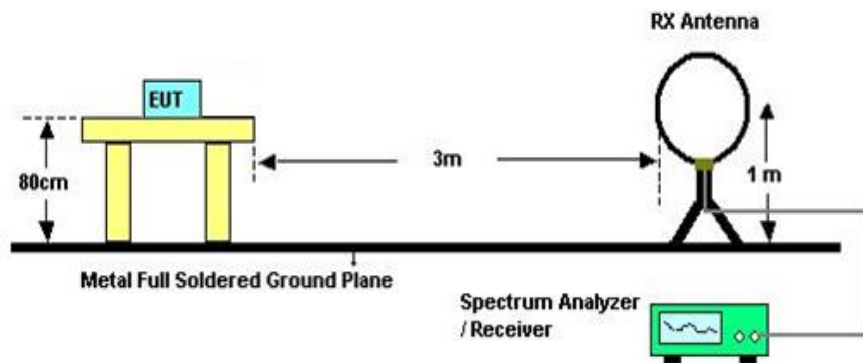
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

Note: ¹Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

²Above 38.6c

TEST SETUP AND PROCEDURE

Below 30MHz

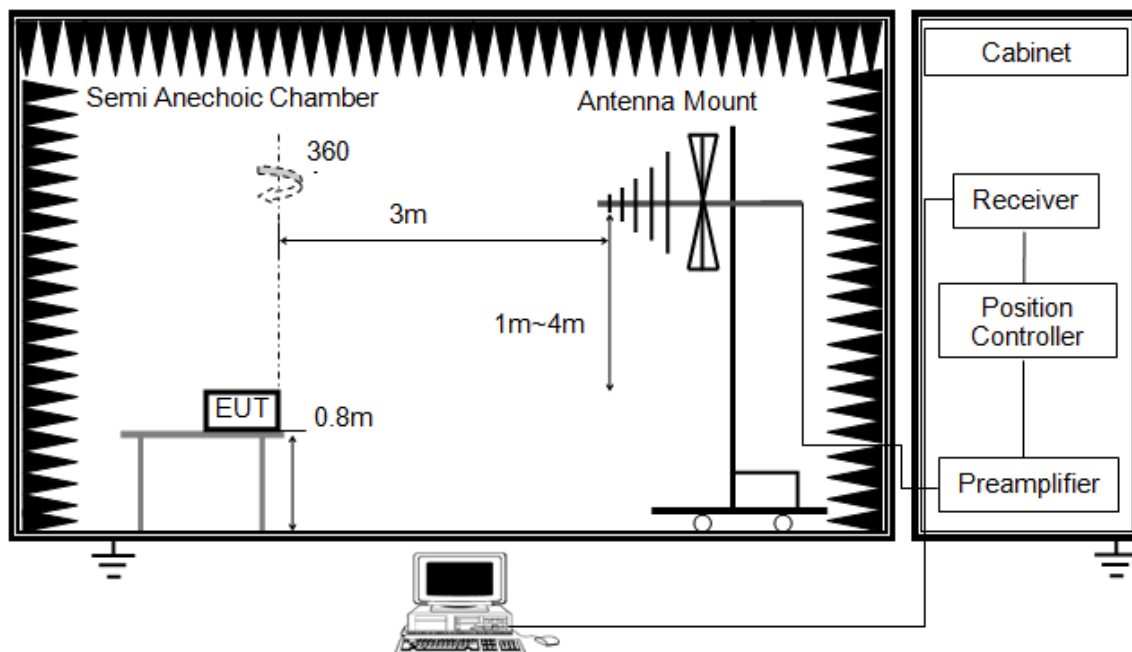


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G

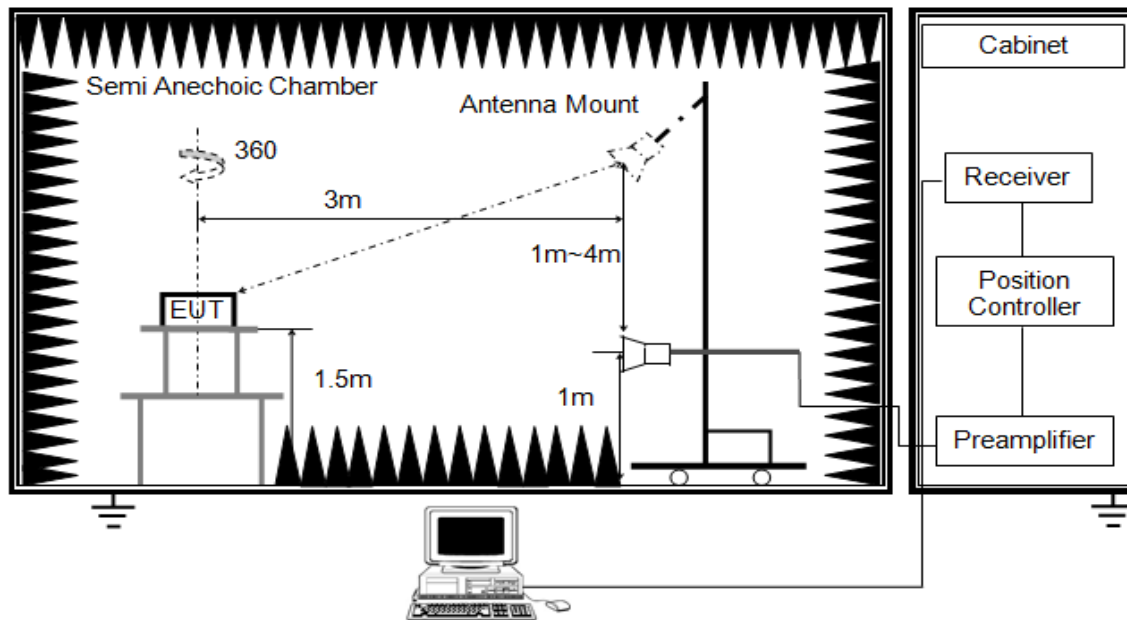


The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

ABOVE 1G

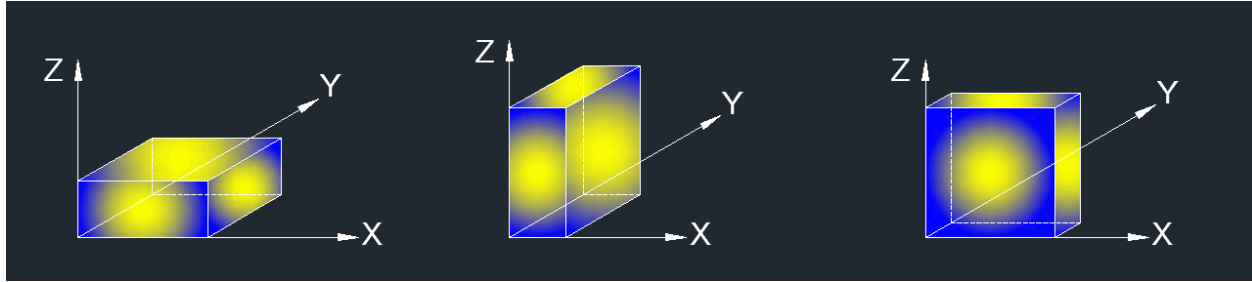


The setting of the spectrum analyser

RBW	1M
VBW	PEAK: 3M AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 8.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

TEST ENVIRONMENT

Temperature	24.3°C	Relative Humidity	61%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V/50HZ

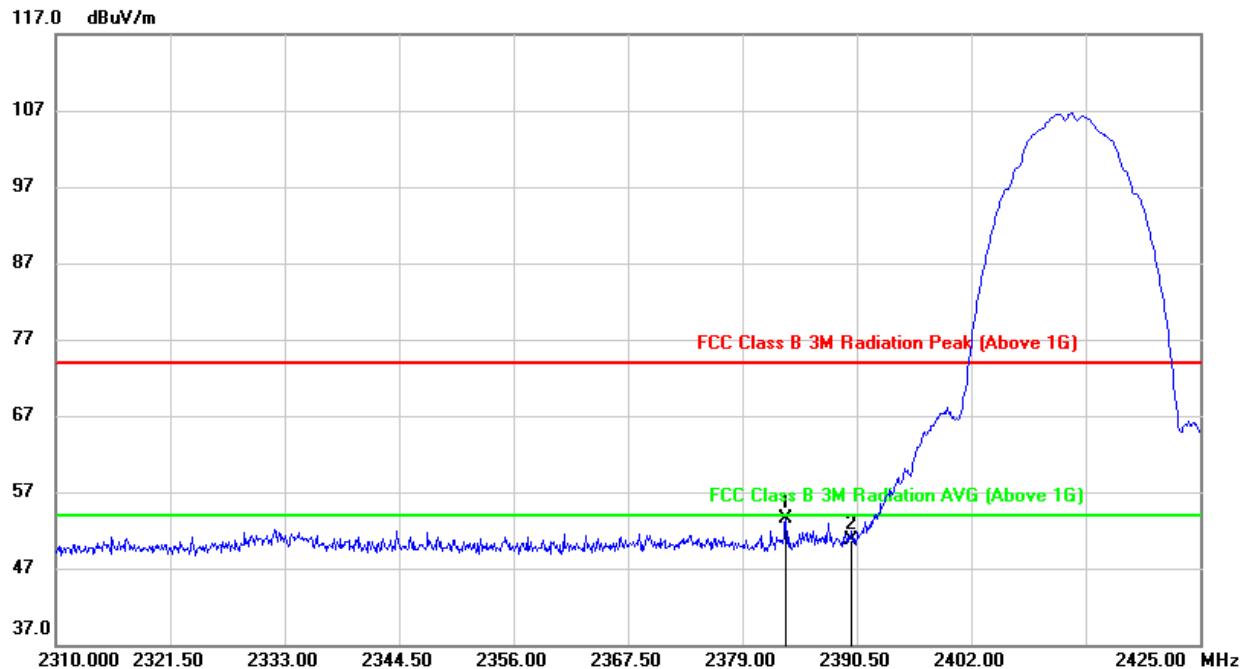


9.1. RESTRICTED BANDEDGE

9.1.1. 802.11b MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

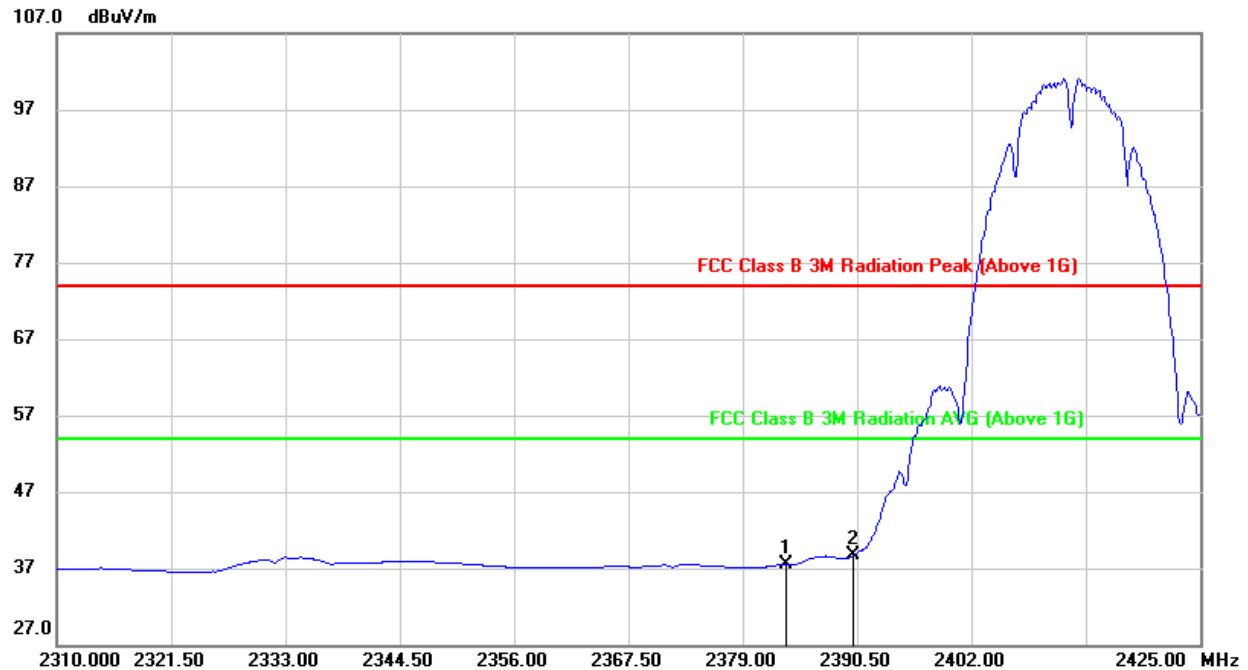


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2383.370	20.49	32.92	53.41	74.00	-20.59	peak
2	2390.000	17.79	32.94	50.73	74.00	-23.27	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



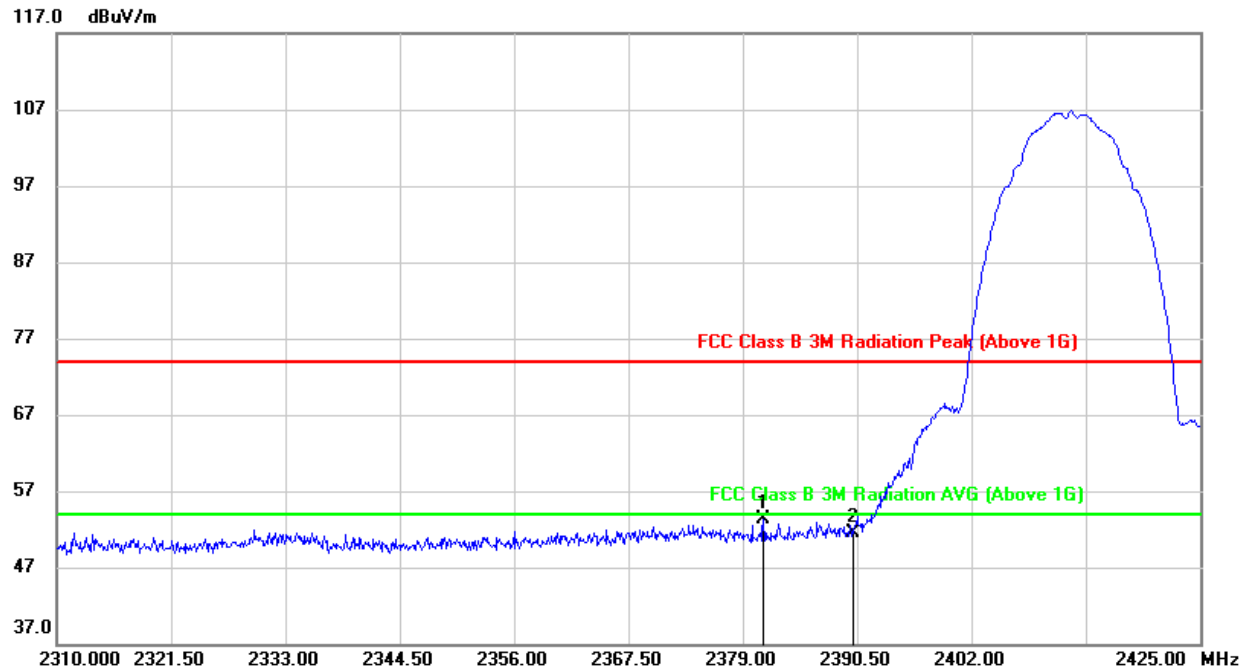
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2383.370	4.54	32.92	37.46	54.00	-16.54	AVG
2	2390.000	5.68	32.94	38.62	54.00	-15.38	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



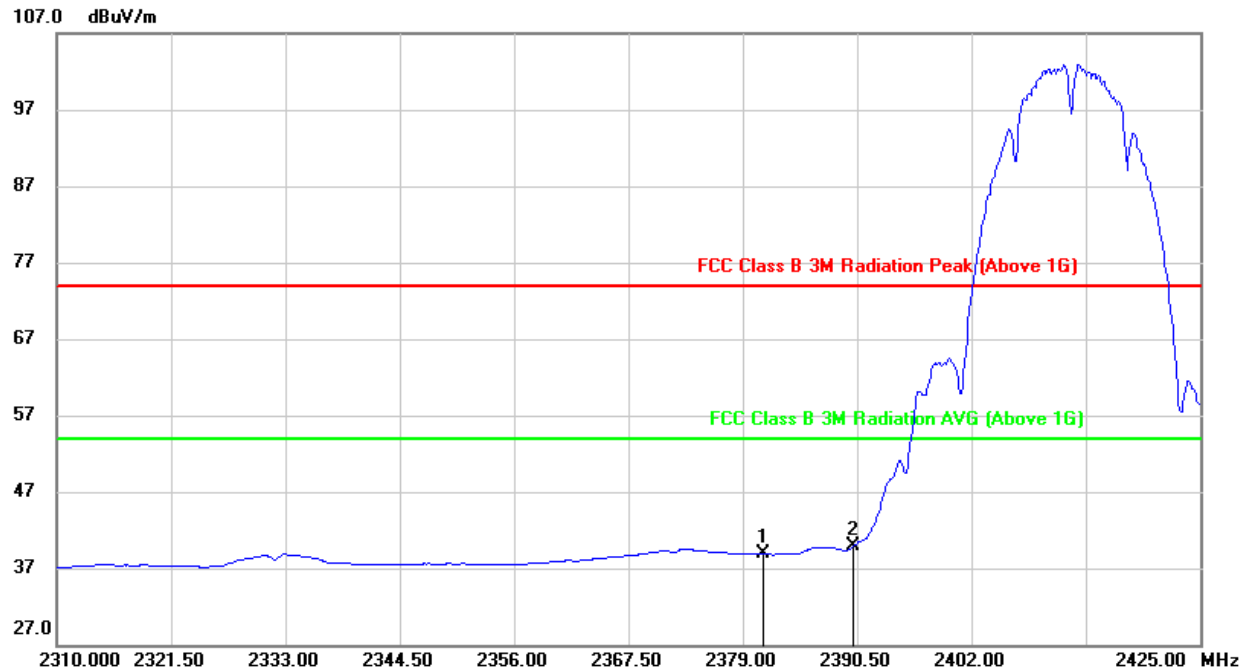
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



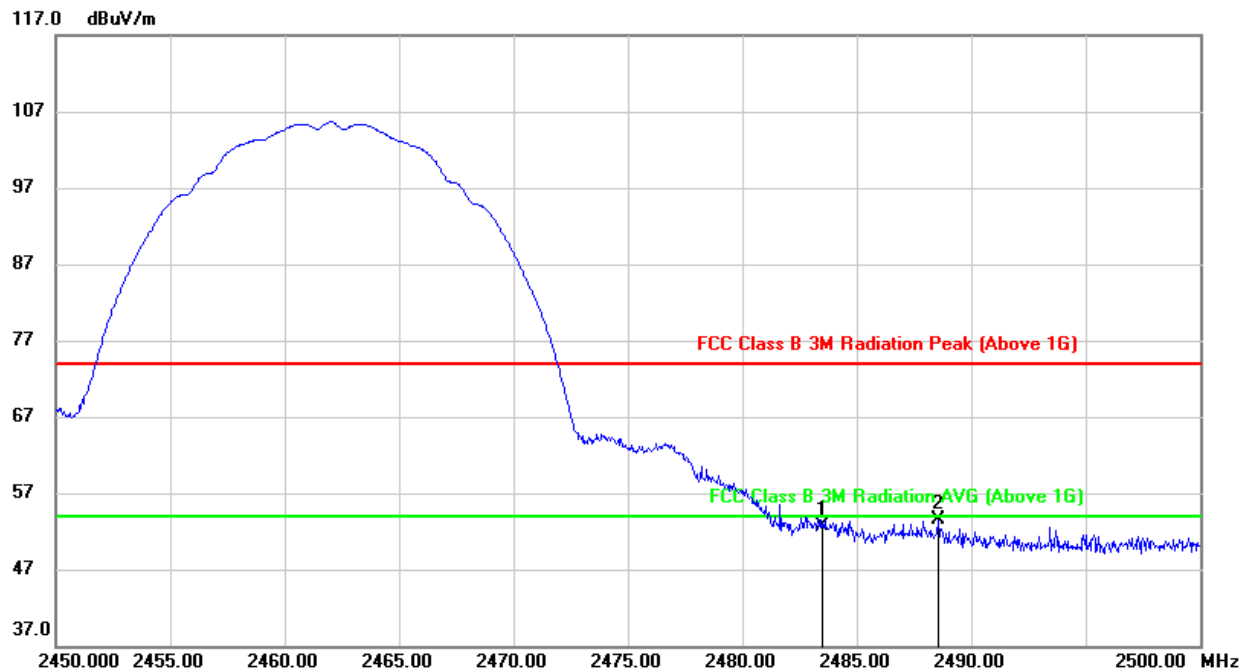
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2381.070	20.31	32.92	53.23	74.00	-20.77	peak
2	2390.000	18.58	32.94	51.52	74.00	-22.48	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2381.070	5.98	32.92	38.90	54.00	-15.10	AVG
2	2390.000	6.87	32.94	39.81	54.00	-14.19	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

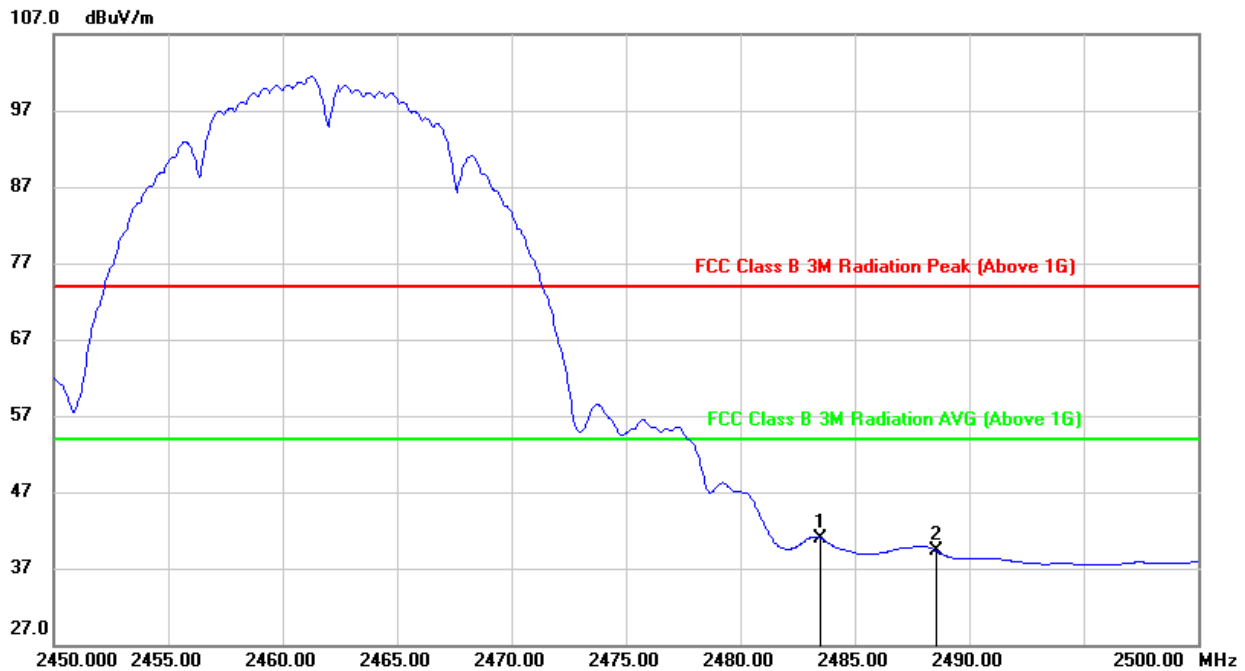
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	19.14	33.58	52.72	74.00	-21.28	peak
2	2488.550	19.80	33.62	53.42	74.00	-20.58	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



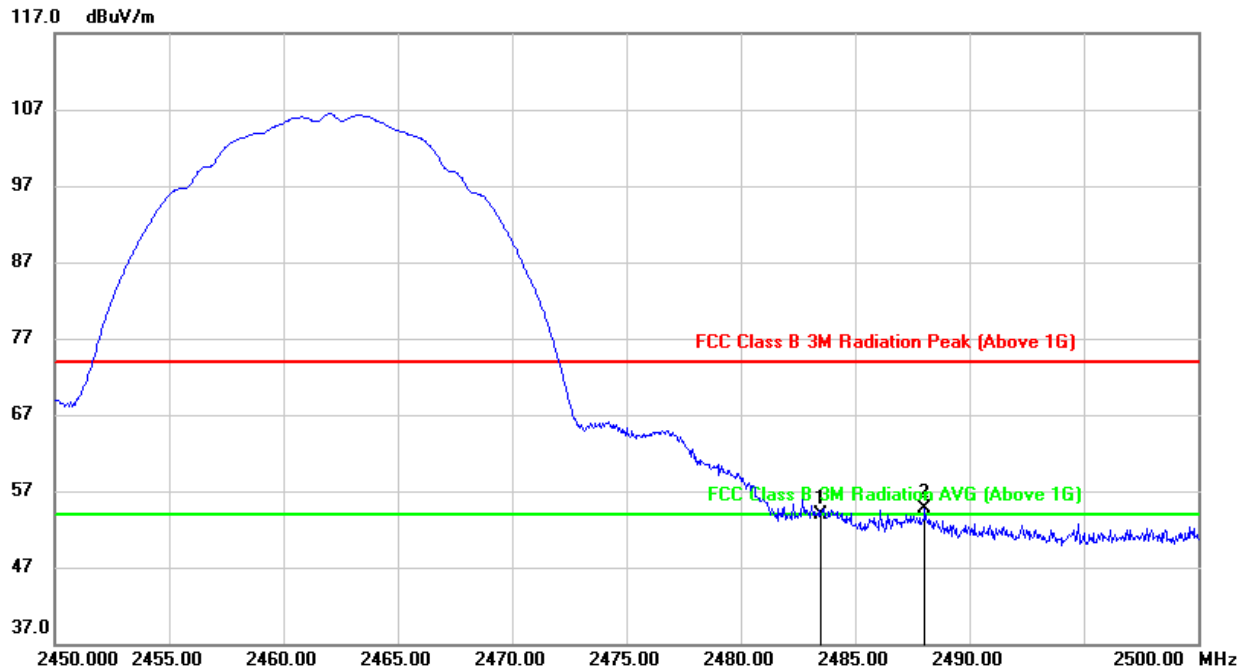
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	7.38	33.58	40.96	54.00	-13.04	AVG
2	2488.550	5.68	33.62	39.30	54.00	-14.70	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



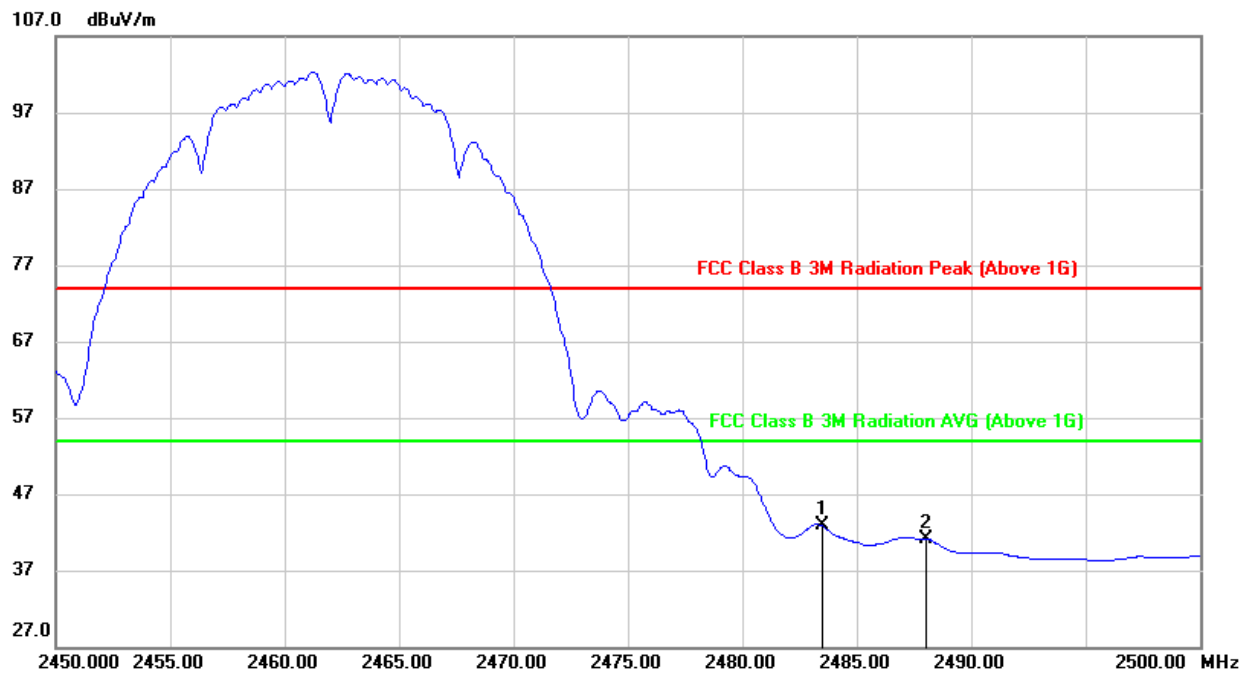
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	20.33	33.58	53.91	74.00	-20.09	peak
2	2488.050	21.15	33.62	54.77	74.00	-19.23	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	9.26	33.58	42.84	54.00	-11.16	AVG
2	2488.050	7.45	33.62	41.07	54.00	-12.93	AVG

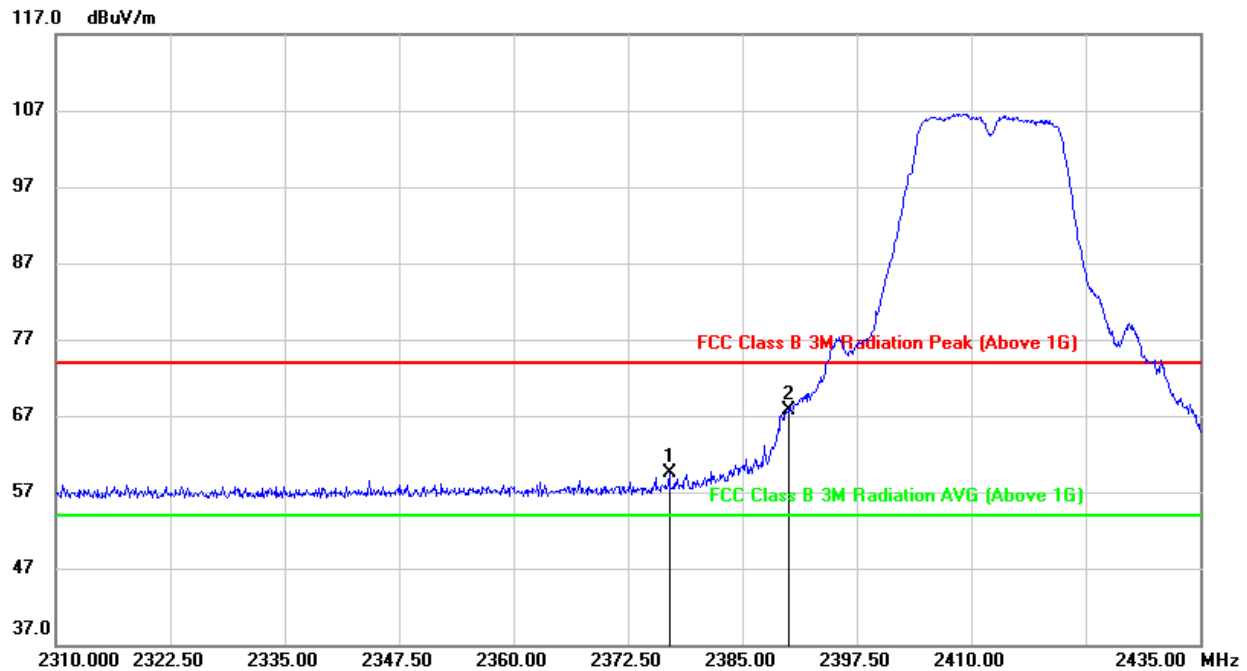
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/T_{on}$ where: t_{on} is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



9.1.2. 802.11g MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

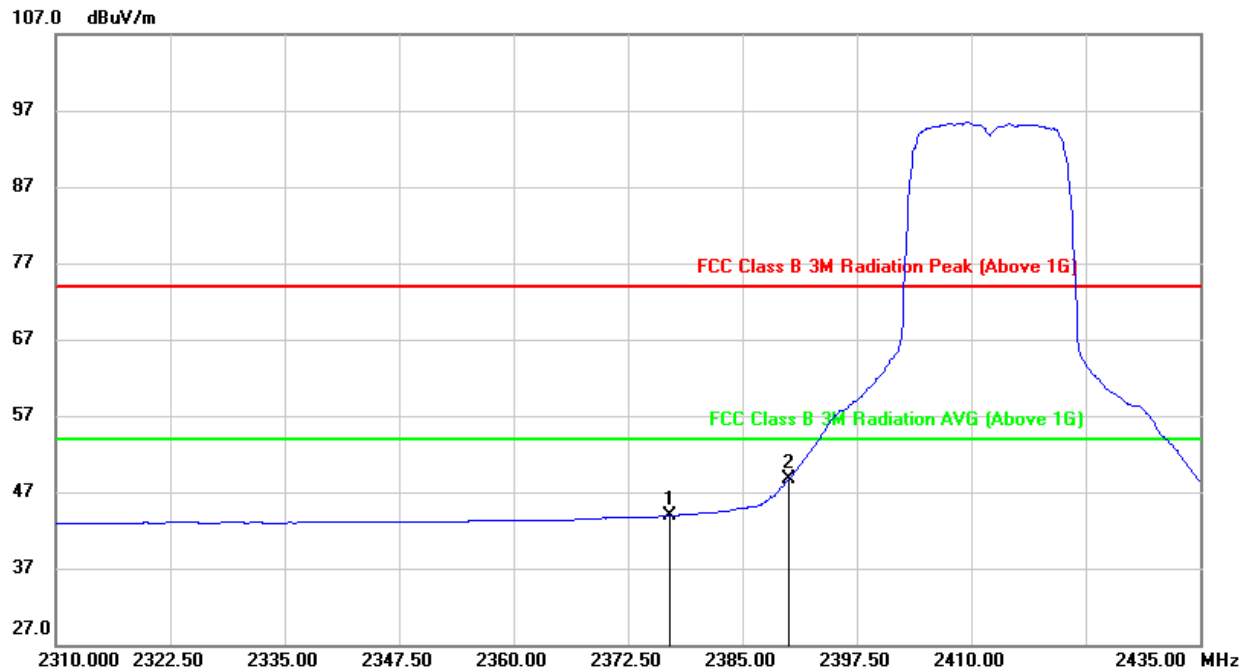


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2377.000	26.64	32.90	59.54	74.00	-14.46	peak
2	2390.000	34.78	32.94	67.72	74.00	-6.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



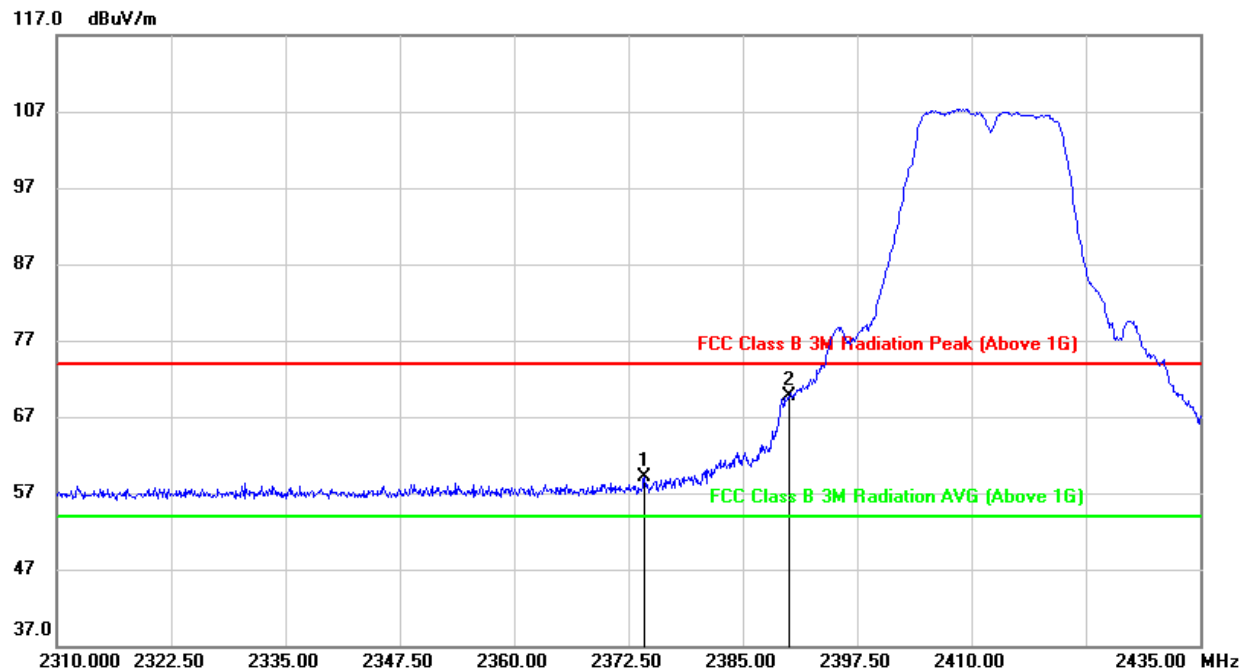
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2377.000	11.10	32.90	44.00	54.00	-10.00	AVG
2	2390.000	15.70	32.94	48.64	54.00	-5.36	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



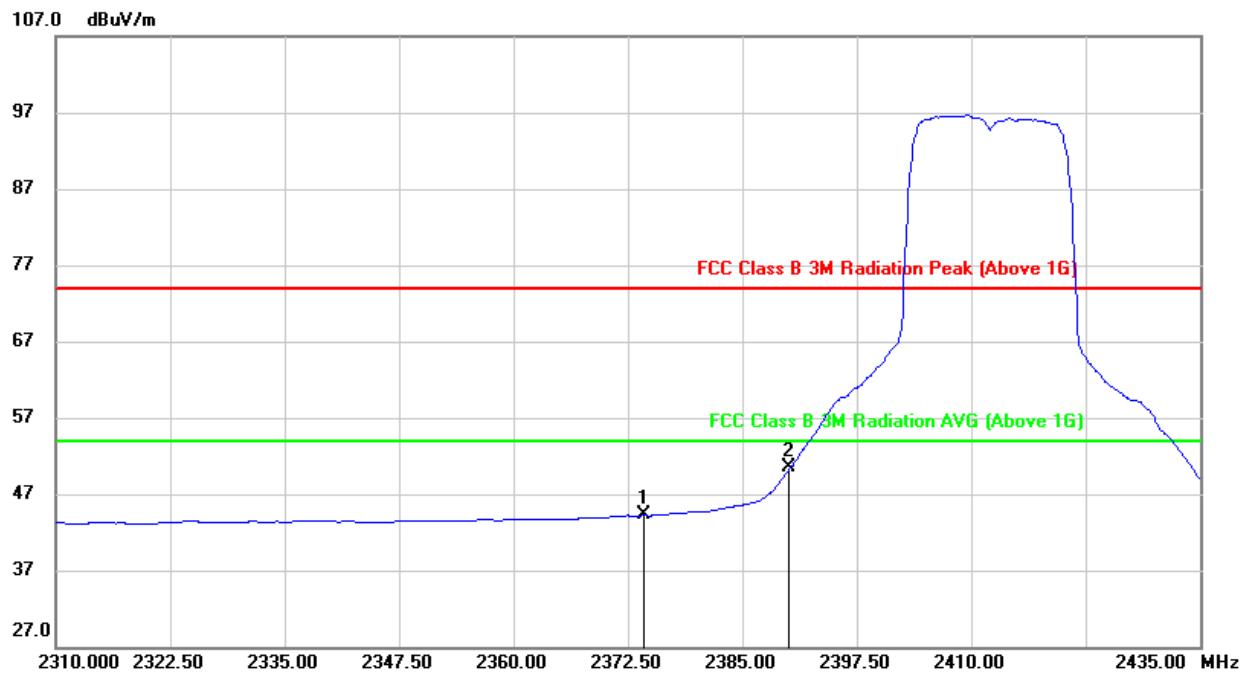
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2374.250	26.13	32.89	59.02	74.00	-14.98	peak
2	2390.000	36.80	32.94	69.74	74.00	-4.26	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

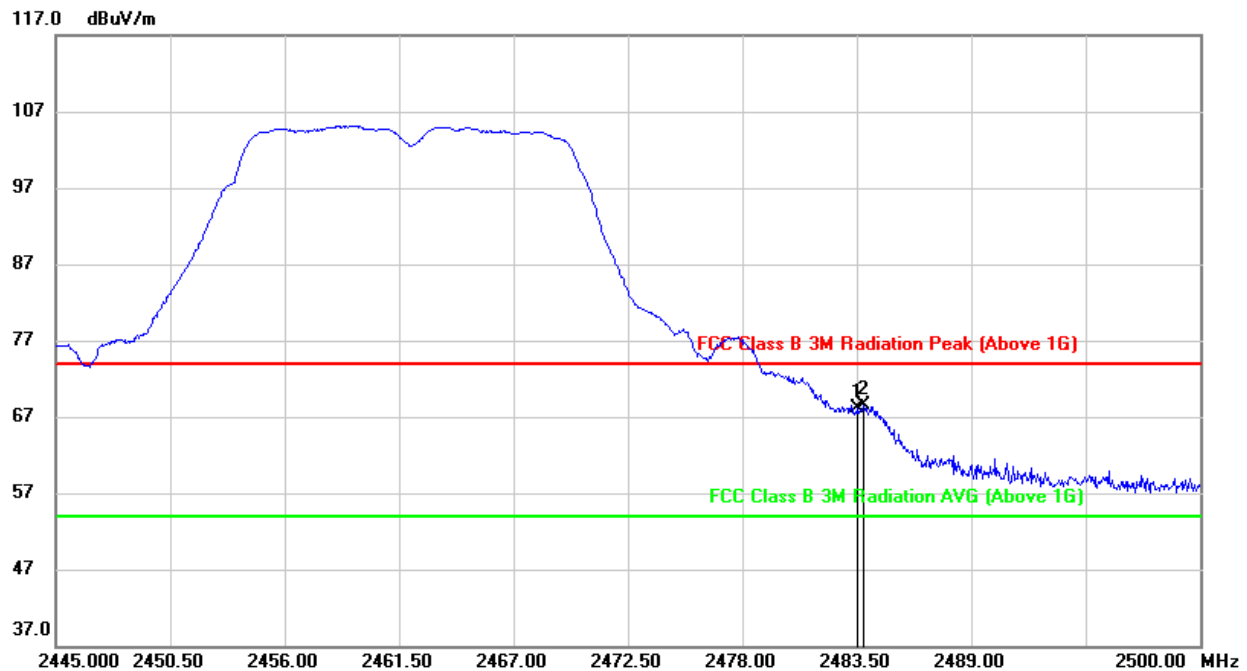
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2374.250	11.33	32.89	44.22	54.00	-9.78	AVG
2	2390.000	17.54	32.94	50.48	54.00	-3.52	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: VBW=1/Ton where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

PEAK

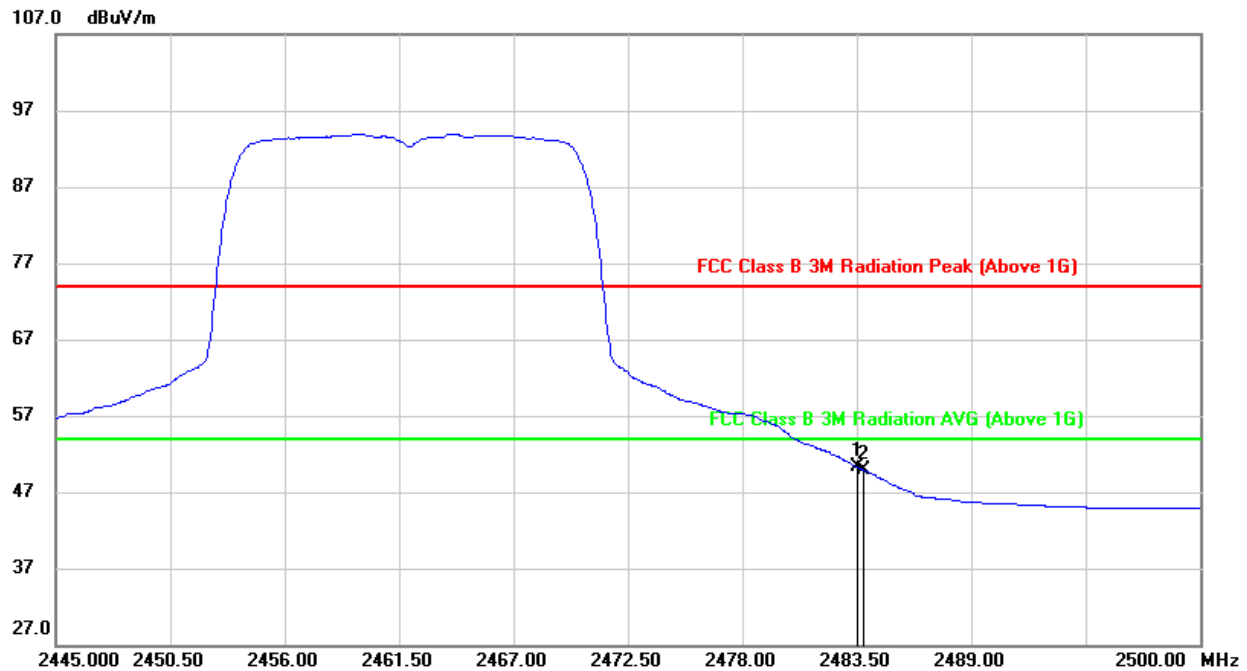


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	34.53	33.58	68.11	74.00	-5.89	peak
2	2483.830	34.88	33.58	68.46	74.00	-5.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



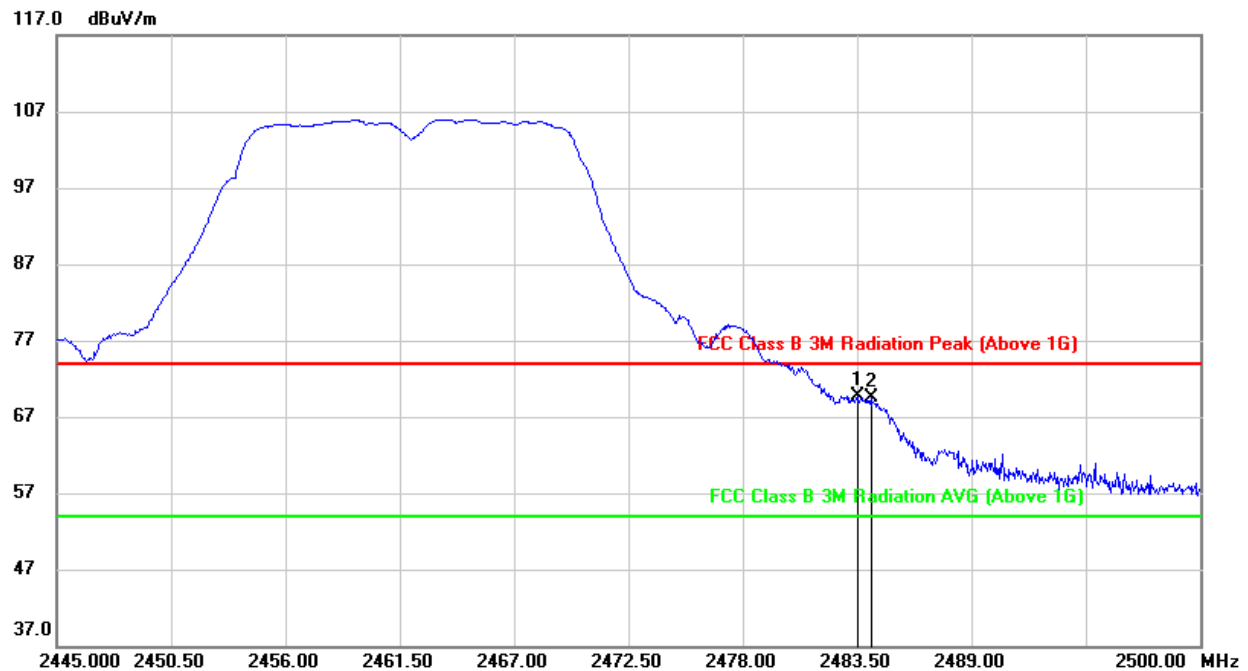
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	16.73	33.58	50.31	54.00	-3.69	AVG
2	2483.830	16.29	33.58	49.87	54.00	-4.13	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/T_{on}$ where: t_{on} is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



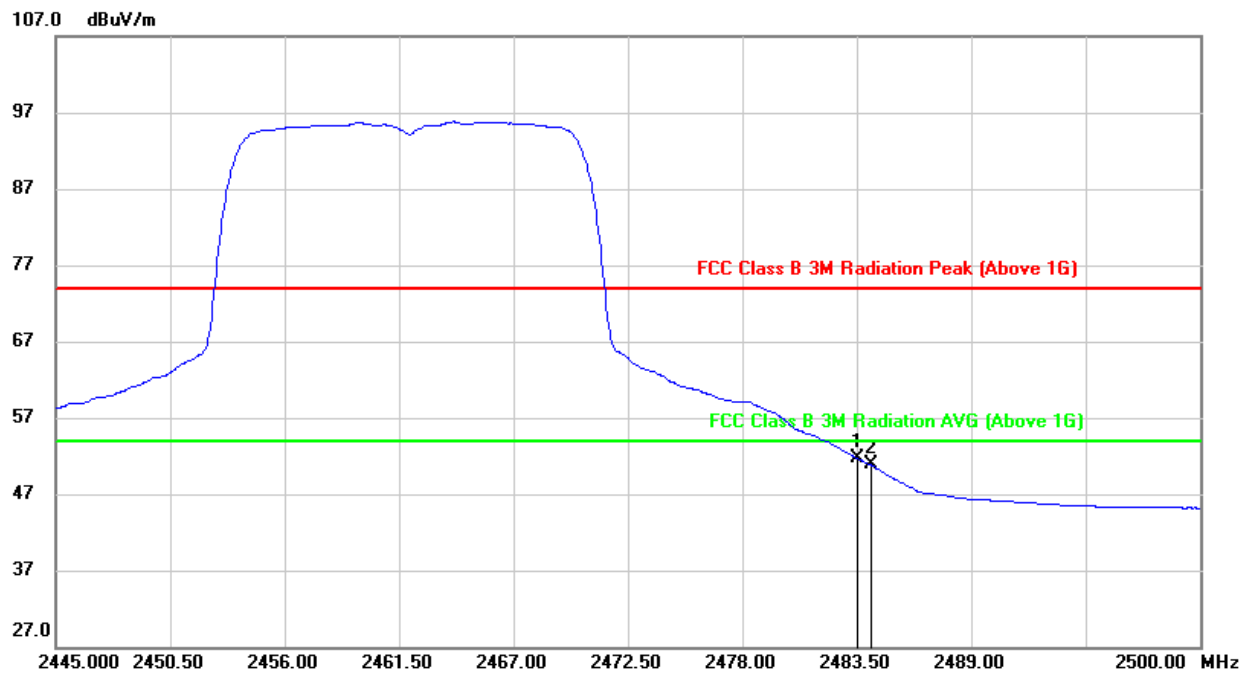
RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

PEAK



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	36.14	33.58	69.72	74.00	-4.28	peak
2	2484.160	35.89	33.58	69.47	74.00	-4.53	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	18.11	33.58	51.69	54.00	-2.31	AVG
2	2484.160	17.28	33.58	50.86	54.00	-3.14	AVG

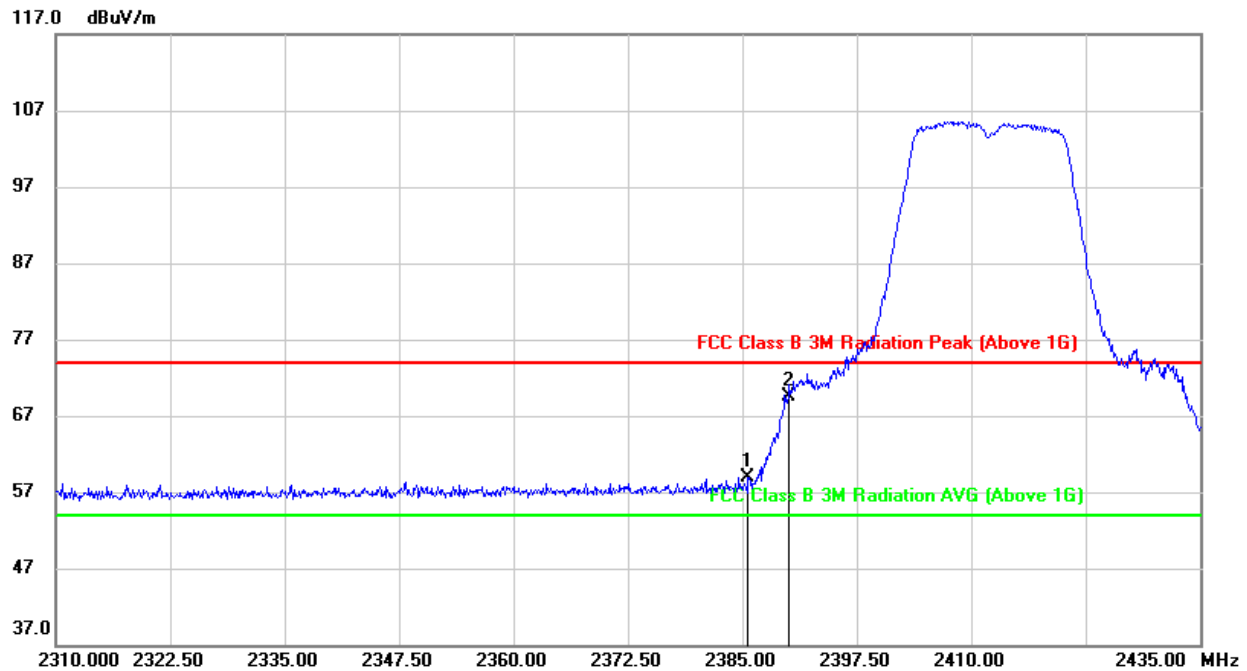
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/T_{on}$ where: t_{on} is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



9.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

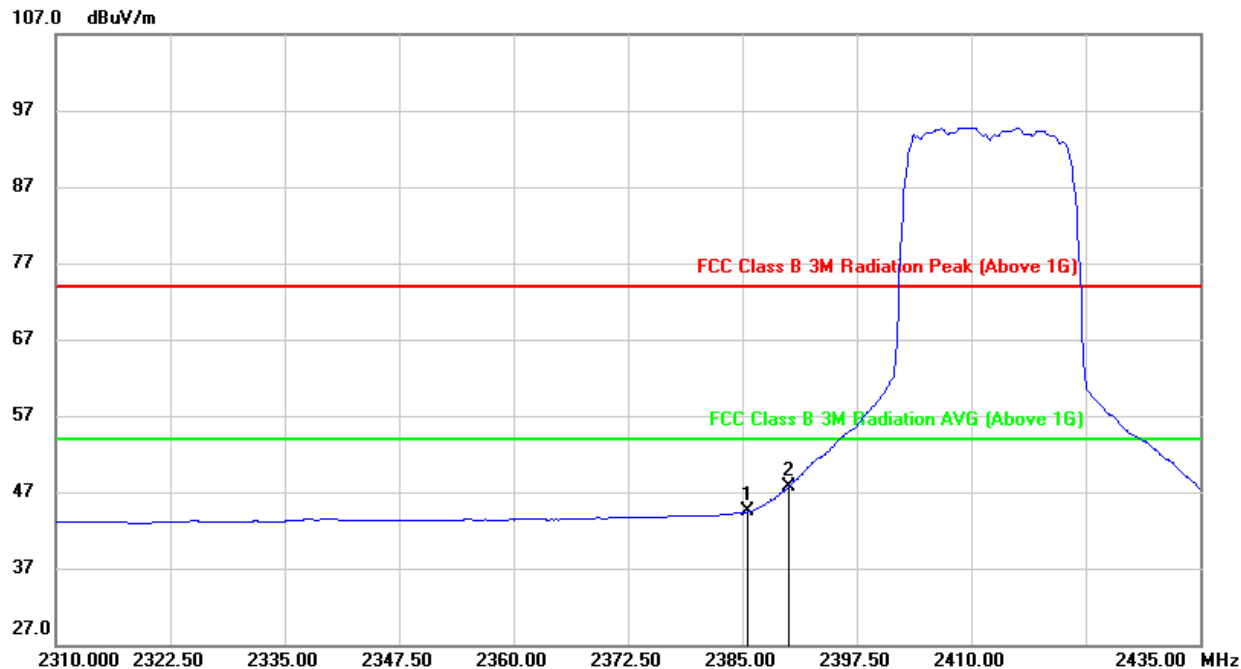


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2385.625	26.04	32.93	58.97	74.00	-15.03	peak
2	2390.000	36.50	32.94	69.44	74.00	-4.56	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



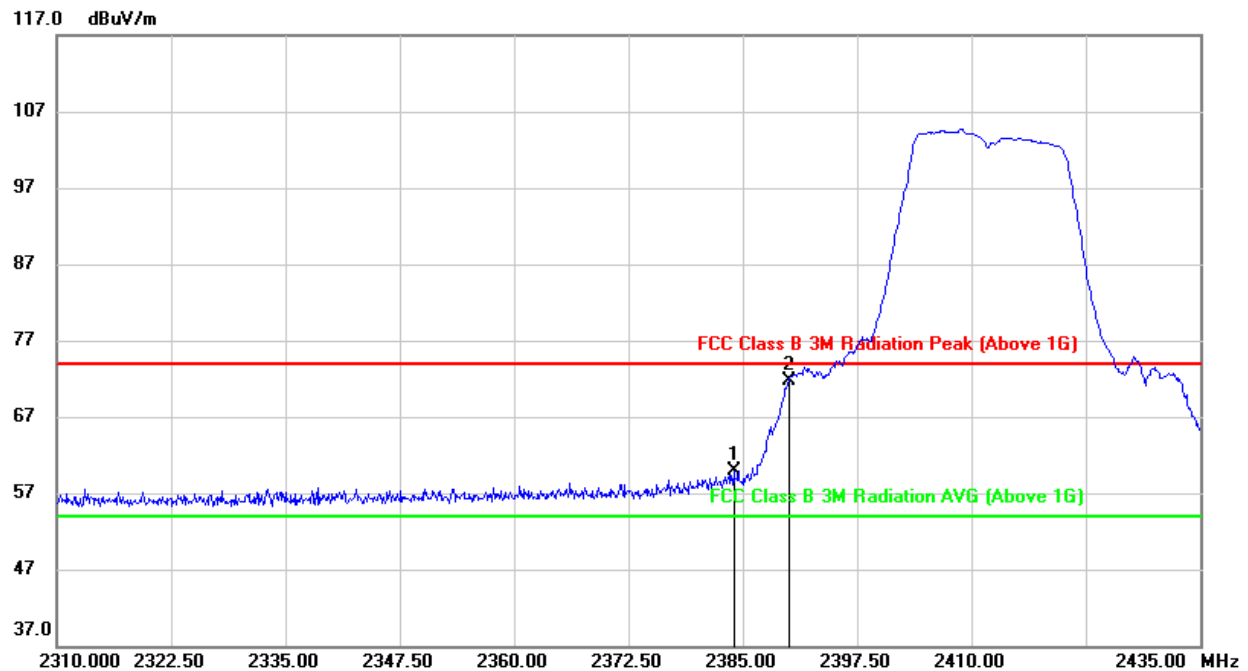
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2385.625	11.48	32.93	44.41	54.00	-9.59	AVG
2	2390.000	14.74	32.94	47.68	54.00	-6.32	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



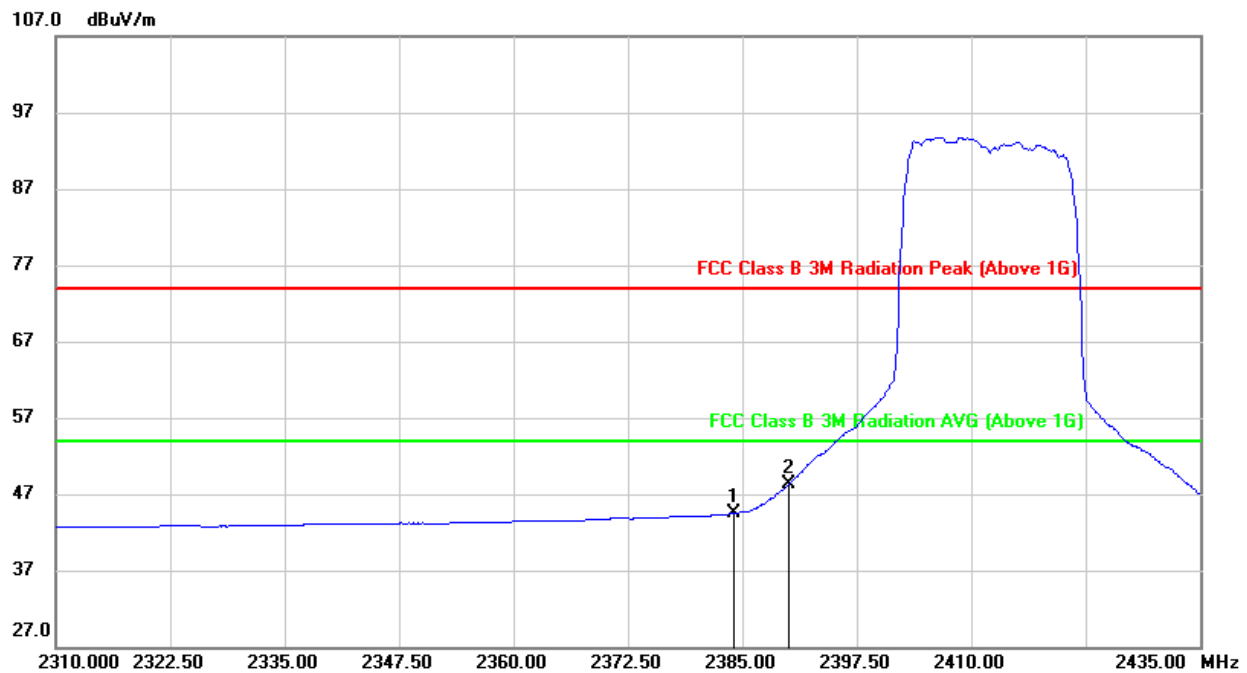
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



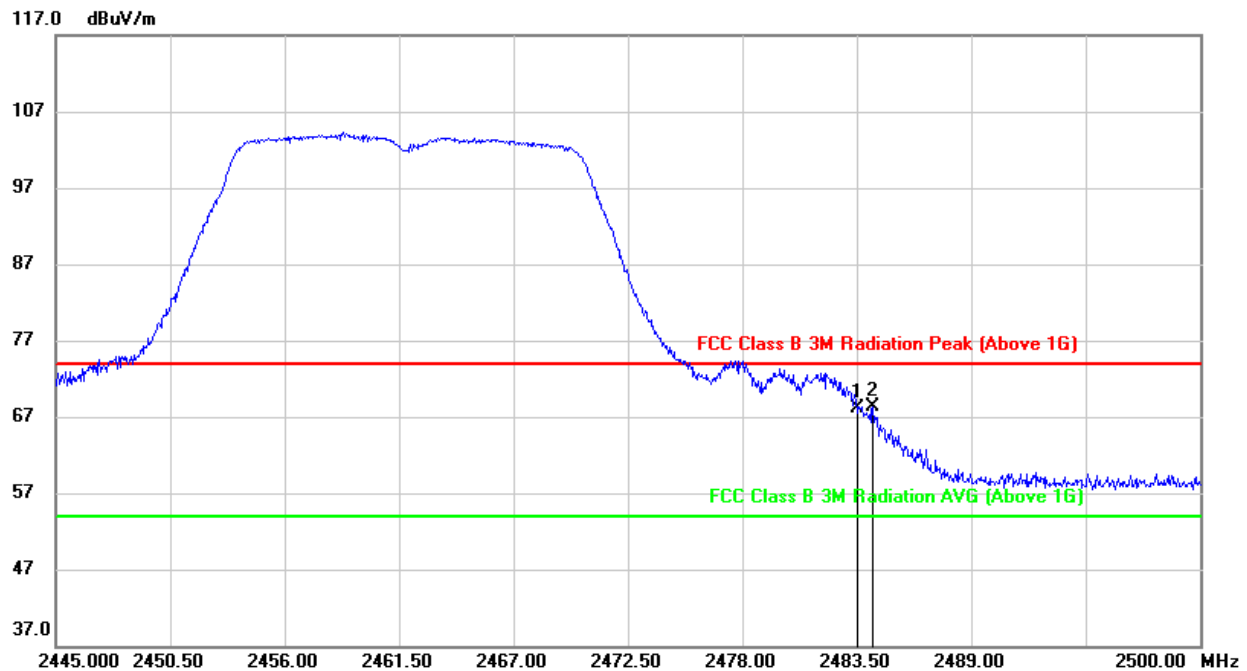
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2384.000	27.05	32.92	59.97	74.00	-14.03	peak
2	2390.000	38.68	32.94	71.62	74.00	-2.38	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2384.000	11.57	32.92	44.49	54.00	-9.51	AVG
2	2390.000	15.27	32.94	48.21	54.00	-5.79	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

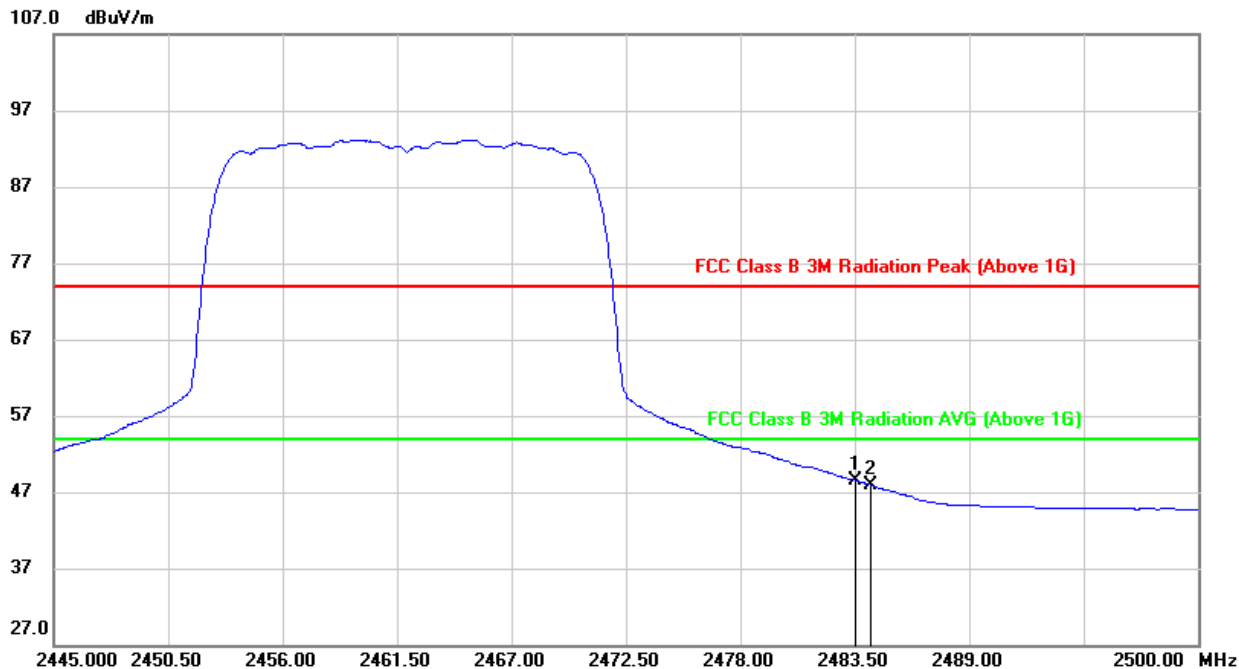
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	34.43	33.58	68.01	74.00	-5.99	peak
2	2484.270	34.65	33.58	68.23	74.00	-5.77	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

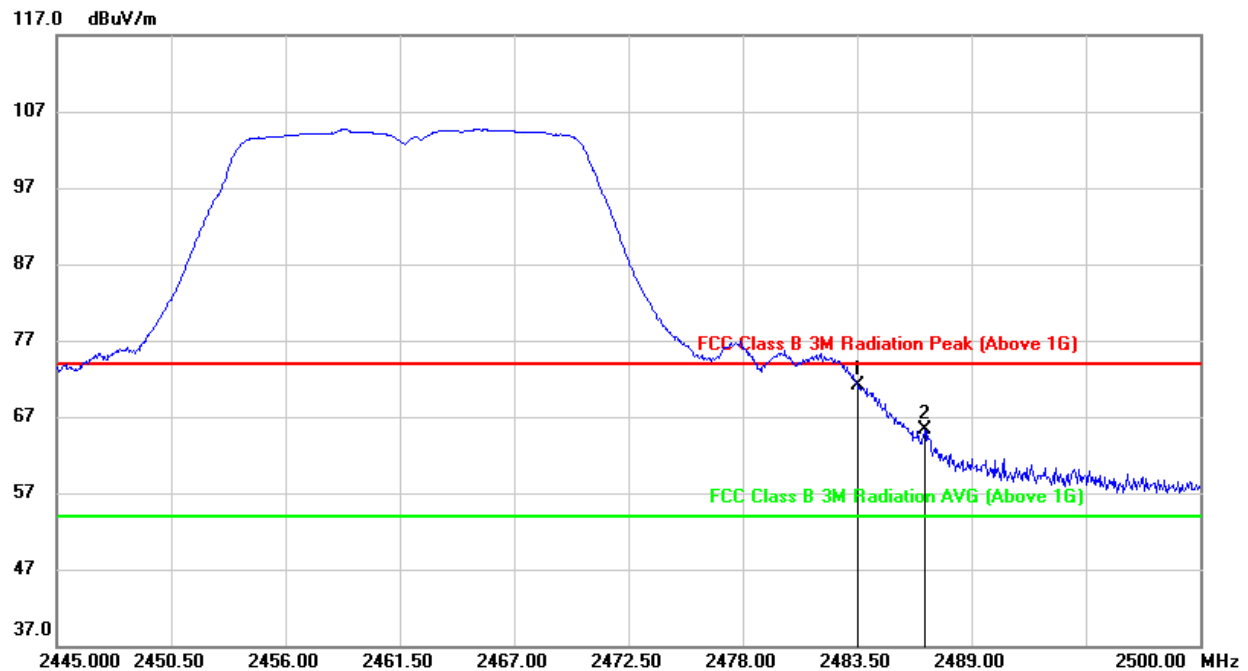


AVG



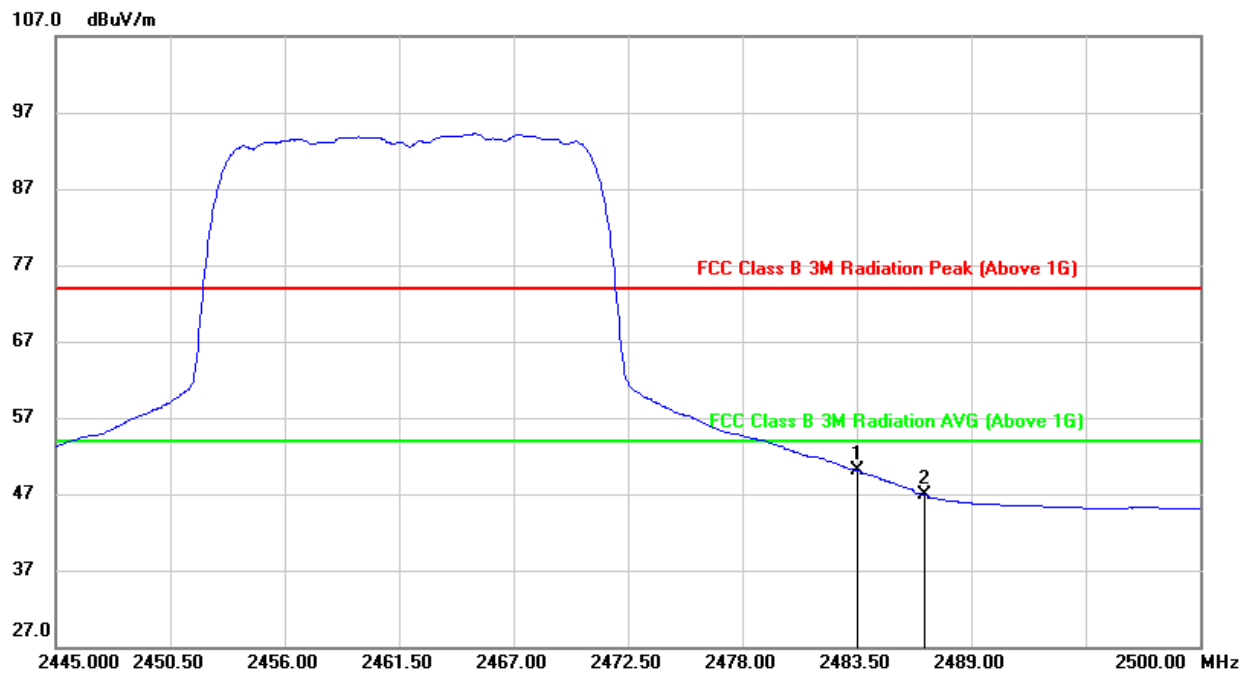
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	14.99	33.58	48.57	54.00	-5.43	AVG
2	2484.270	14.34	33.58	47.92	54.00	-6.08	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/T_{on}$ where: t_{on} is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	37.60	33.58	71.18	74.00	-2.82	peak
2	2486.745	31.63	33.61	65.24	74.00	-8.76	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	16.46	33.58	50.04	54.00	-3.96	AVG
2	2486.745	13.20	33.61	46.81	54.00	-7.19	AVG

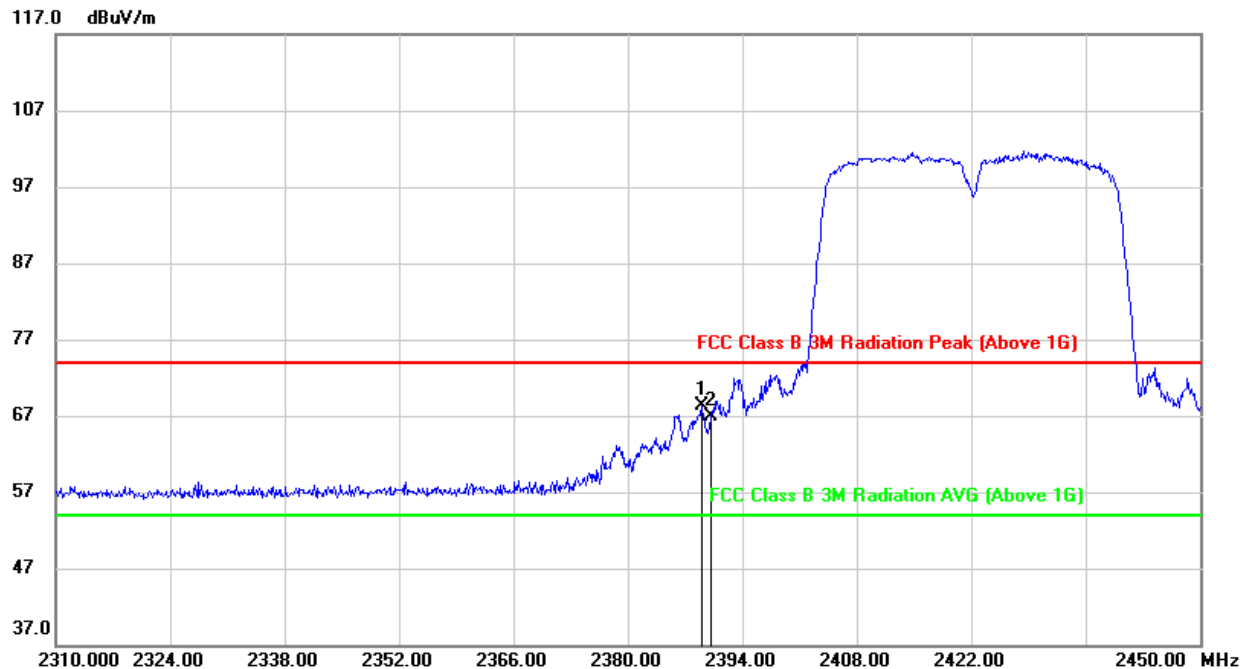
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: VBW=1/Ton where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



9.1.4. 802.11n HT40 MODE

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)

PEAK

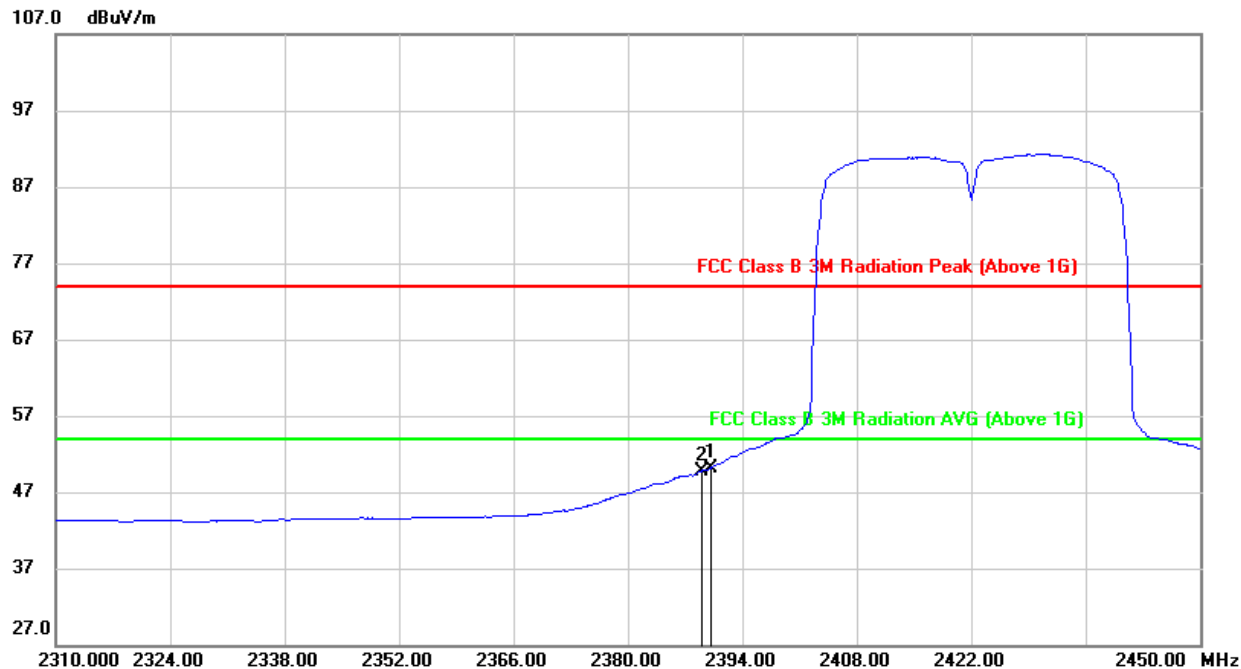


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2388.960	35.34	32.94	68.28	74.00	-5.72	peak
2	2390.000	34.03	32.94	66.97	74.00	-7.03	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



AVG



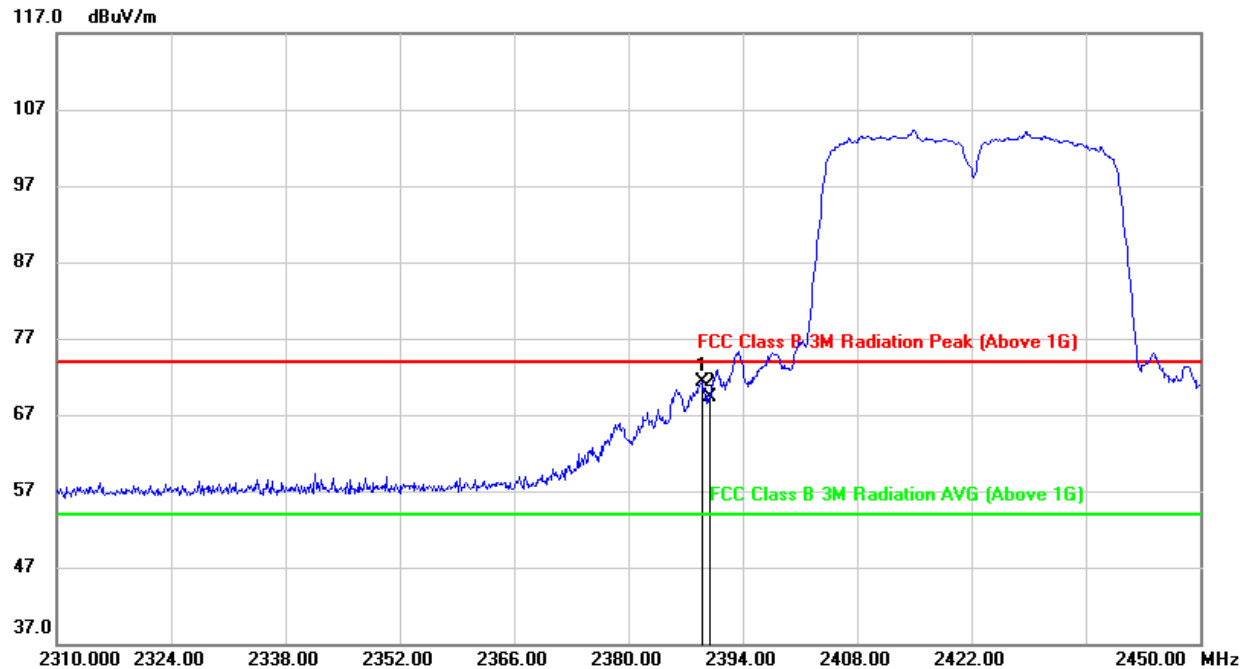
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2390.000	17.17	32.94	50.11	54.00	-3.89	AVG
2	2388.960	16.86	32.94	49.80	54.00	-4.20	AVG

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



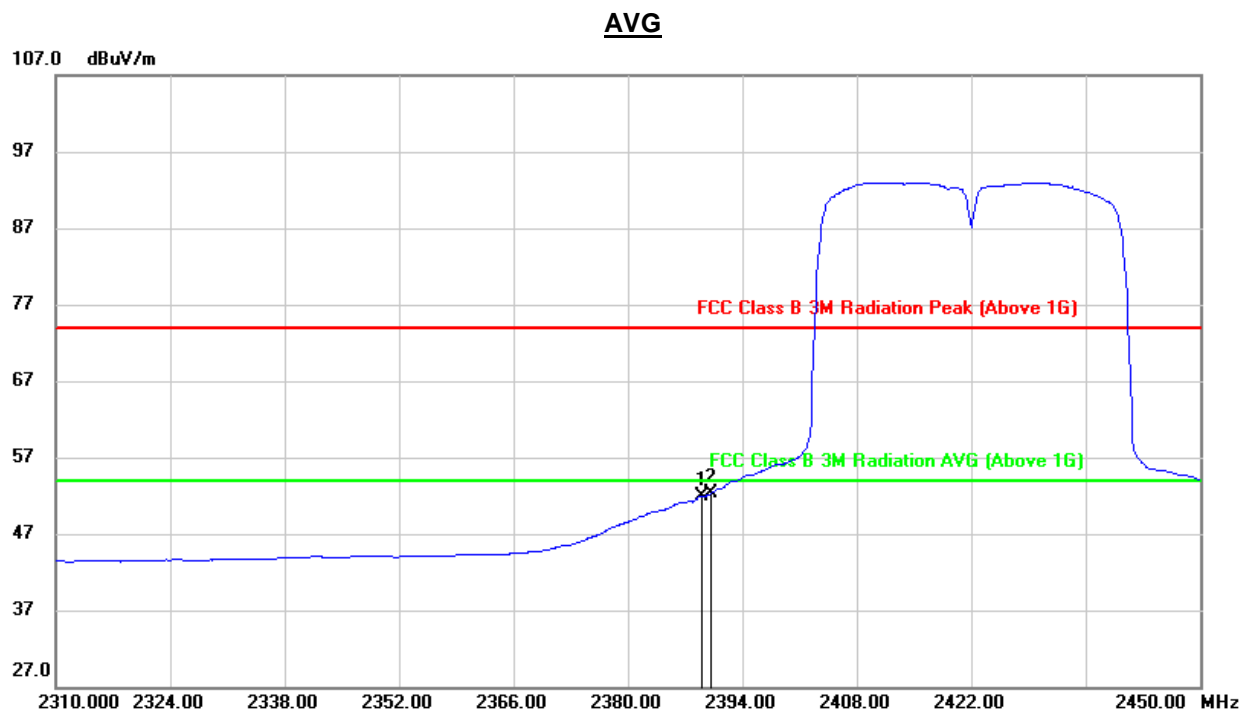
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK



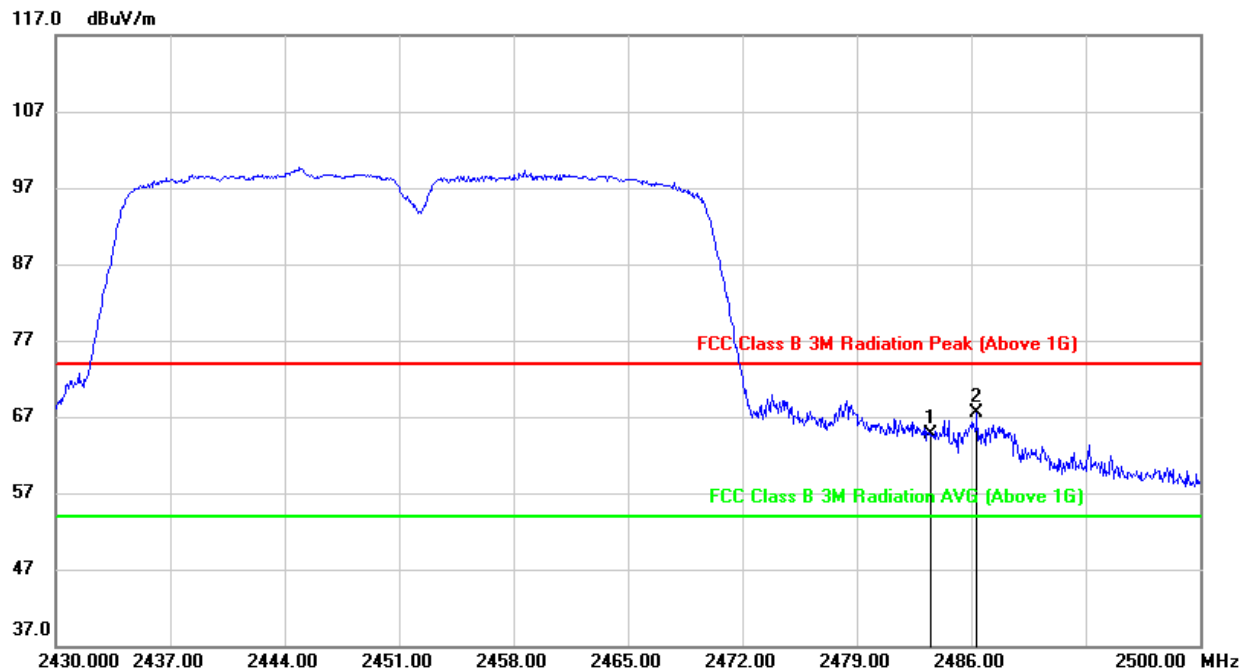
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2388.960	38.28	32.94	71.22	74.00	-2.78	peak
2	2390.000	36.38	32.94	69.32	74.00	-4.68	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2388.960	18.99	32.94	51.93	54.00	-2.07	AVG
2	2390.000	19.33	32.94	52.27	54.00	-1.73	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

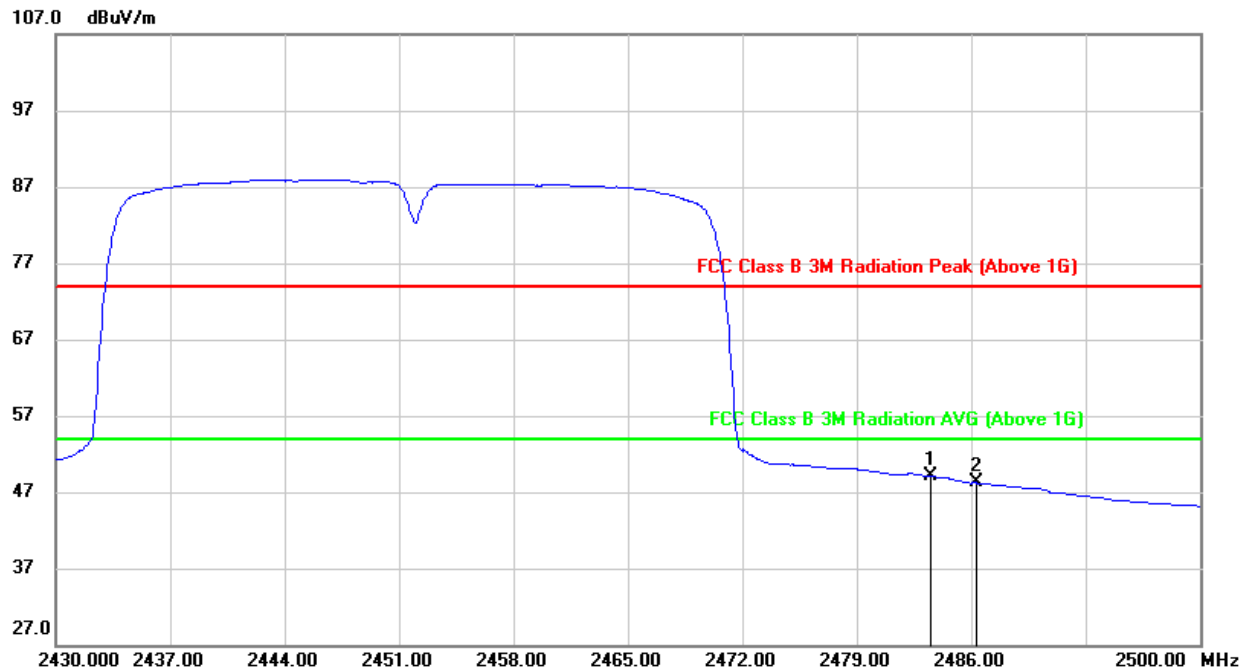
**RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	31.13	33.58	64.71	74.00	-9.29	peak
2	2486.350	33.90	33.61	67.51	74.00	-6.49	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

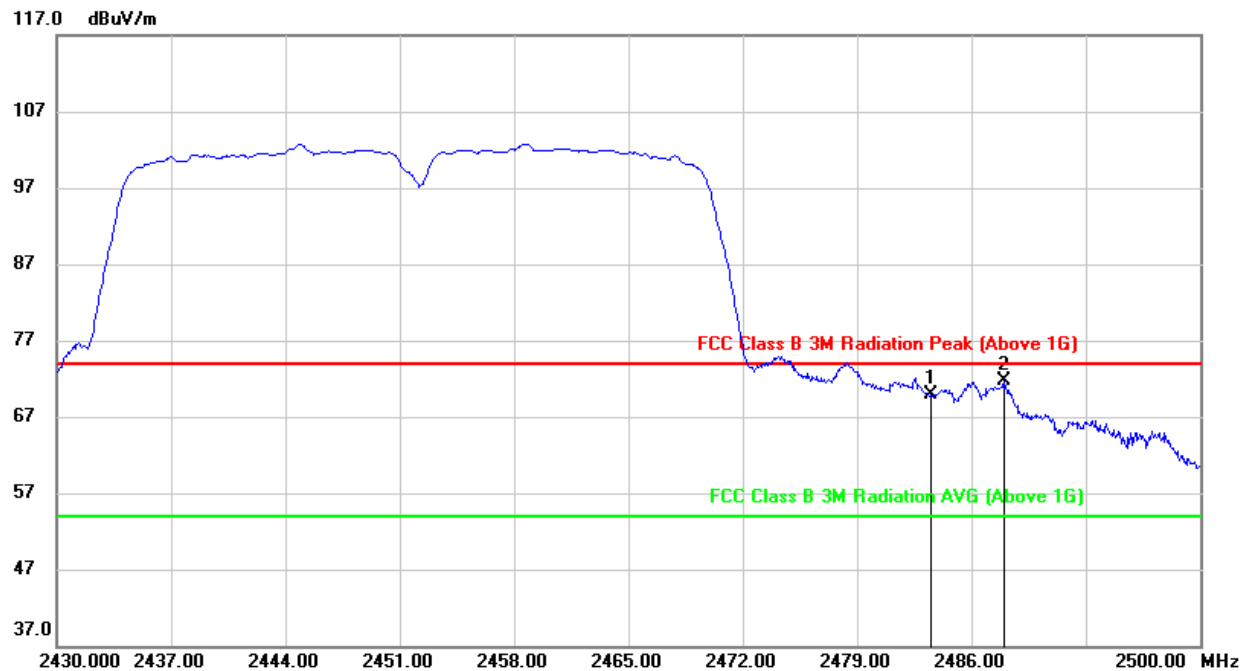


AVG



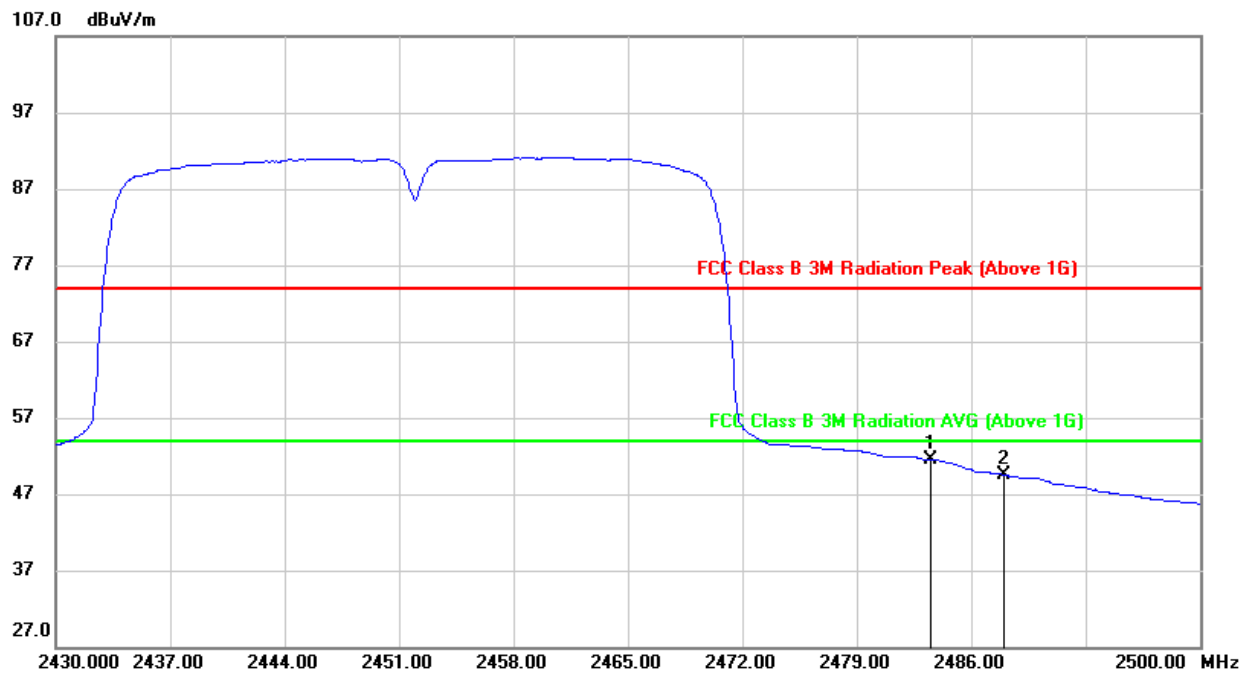
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	15.49	33.58	49.07	54.00	-4.93	AVG
2	2486.350	14.59	33.61	48.20	54.00	-5.80	AVG

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/Ton$ where: ton is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)****PEAK**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	36.35	33.58	69.93	74.00	-4.07	peak
2	2487.960	38.07	33.61	71.68	74.00	-2.32	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**AVG**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	2483.500	17.85	33.58	51.43	54.00	-2.57	AVG
2	2487.960	15.92	33.61	49.53	54.00	-4.47	AVG

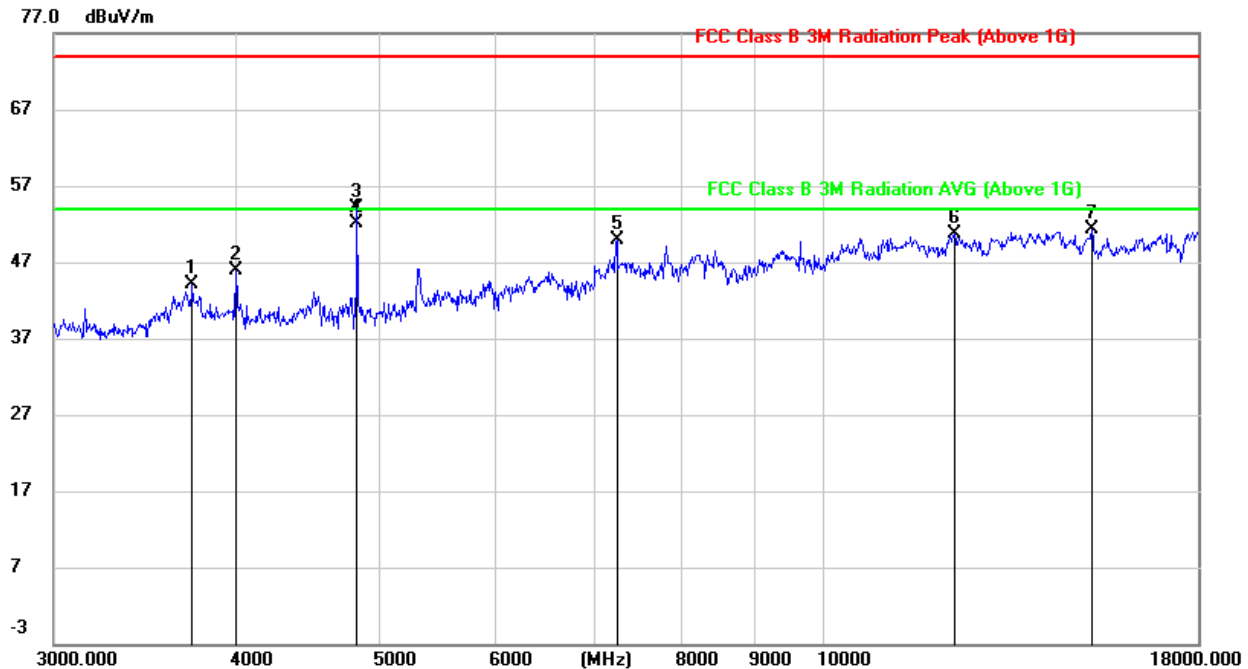
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. AVG: $VBW=1/T_{on}$ where: t_{on} is transmit duration.
4. For transmit duration, please refer to clause 8.1.
5. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



9.2. SPURIOUS EMISSIONS (3~18GHz)

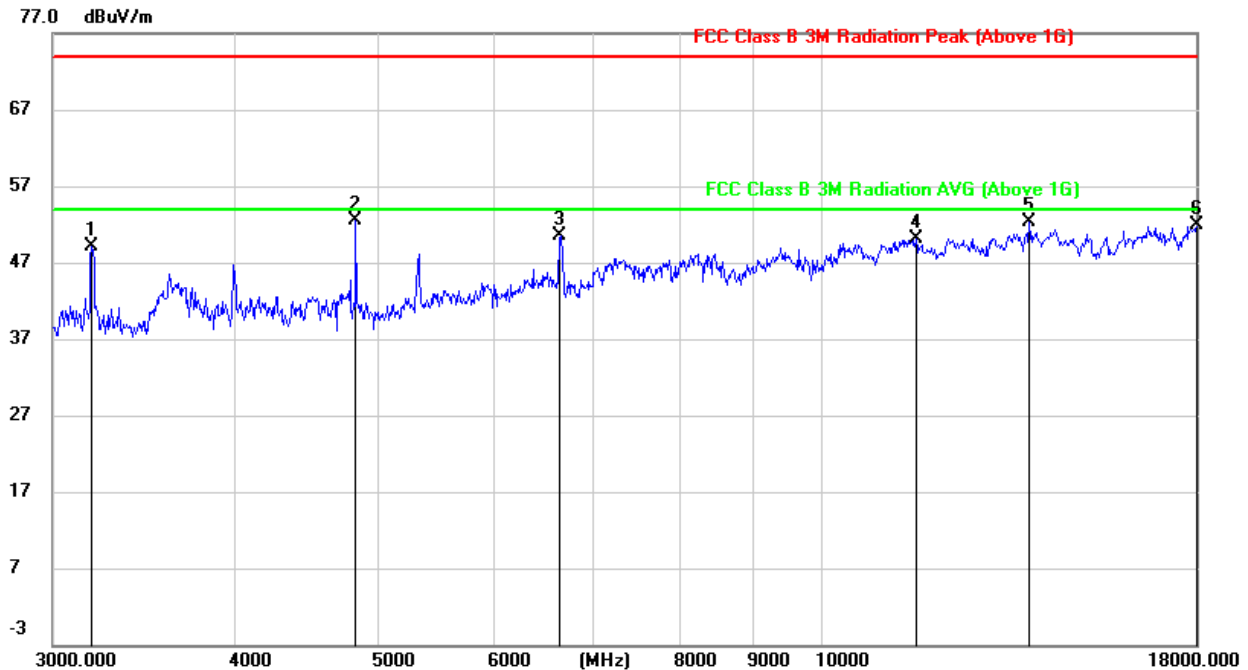
9.2.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



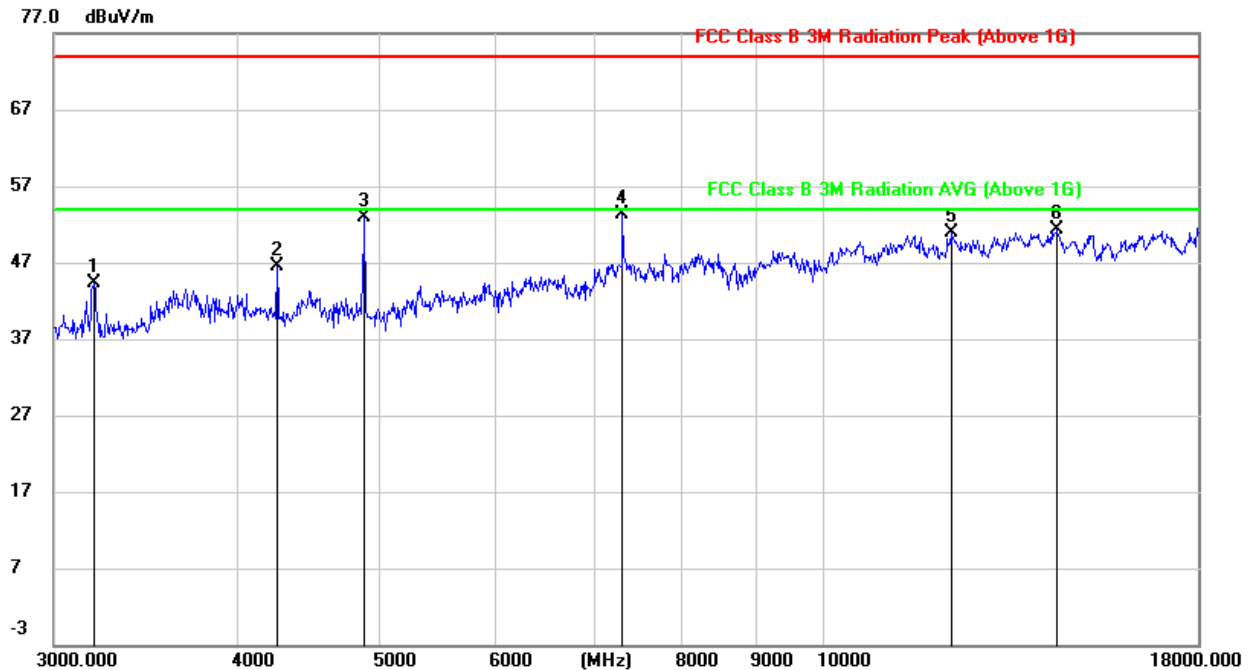
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3732.980	46.95	-2.93	44.02	74.00	-29.98	peak
2	3988.846	48.94	-2.95	45.99	74.00	-28.01	peak
3	4823.915	54.34	-0.21	54.13	74.00	-19.87	peak
4	4823.915	52.40	-0.21	52.19	54.00	-1.81	AVG
5	7243.887	42.91	6.99	49.90	74.00	-24.10	peak
6	12289.276	36.27	14.38	50.65	74.00	-23.35	peak
7	15237.174	35.82	15.56	51.38	74.00	-22.62	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton where: ton is transmit duration.
5. For transmit duration, please refer to clause 8.1.
6. The High Pass filter loss factor already add into the correct factor.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3188.441	53.60	-4.47	49.13	74.00	-24.87	peak
2	4823.156	52.64	-0.21	52.43	74.00	-21.57	peak
3	6646.919	44.55	5.99	50.54	74.00	-23.46	peak
4	11604.474	36.01	14.15	50.16	74.00	-23.84	peak
5	13856.783	35.84	16.44	52.28	74.00	-21.72	peak
6	18000.000	28.63	23.27	51.90	74.00	-22.10	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

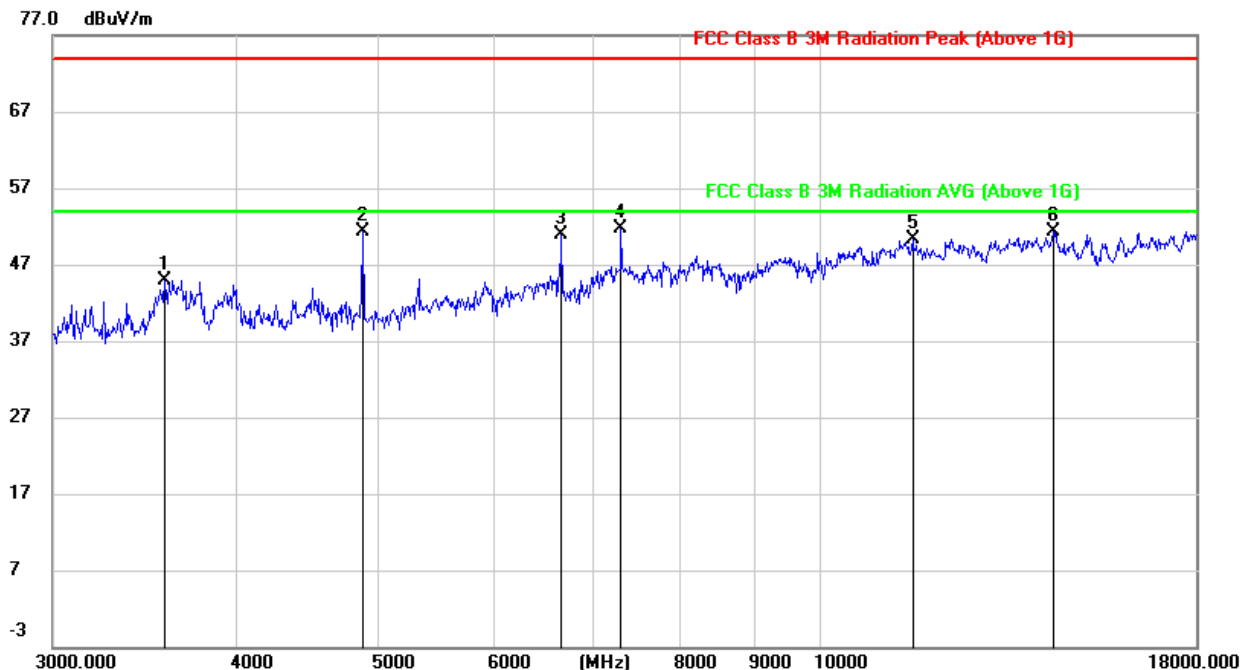
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3194.159	48.72	-4.50	44.22	74.00	-29.78	peak
2	4254.620	48.52	-2.06	46.46	74.00	-27.54	peak
3	4873.989	53.05	-0.13	52.92	74.00	-21.08	peak
4	7311.732	46.16	7.18	53.34	74.00	-20.66	peak
5	12223.395	36.63	14.26	50.89	74.00	-23.11	peak
6	14439.758	34.91	16.39	51.30	74.00	-22.70	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

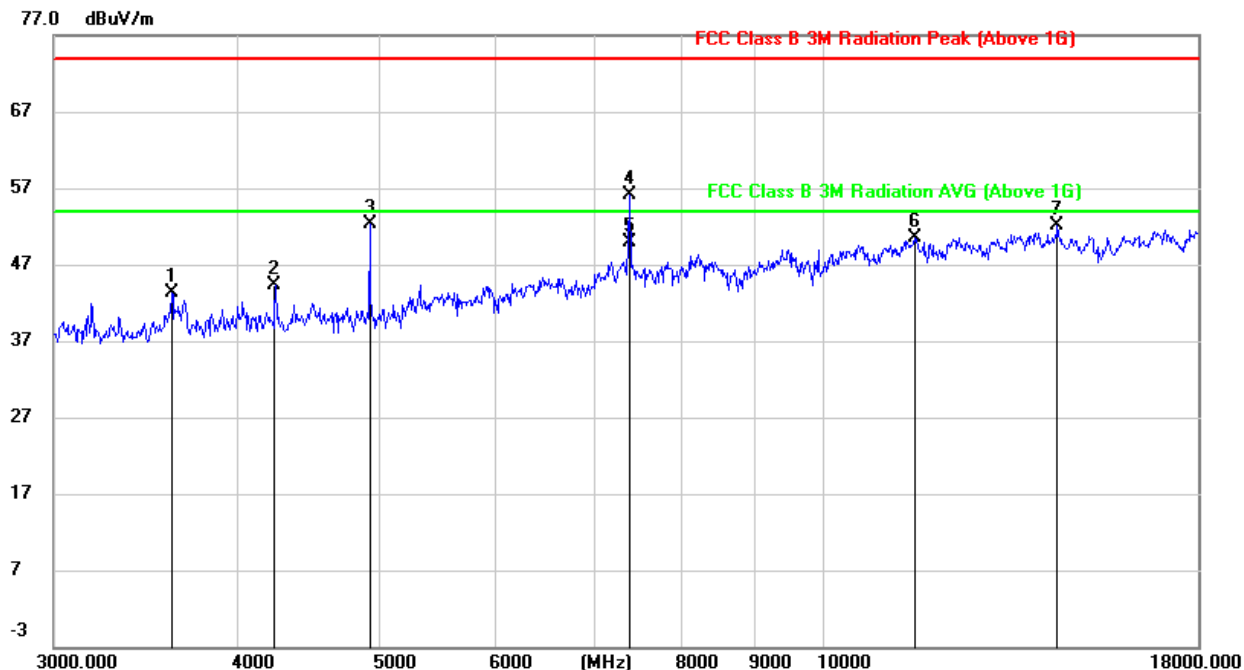


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3582.269	48.63	-3.76	44.87	74.00	-29.13	peak
2	4875.288	51.36	-0.12	51.24	74.00	-22.76	peak
3	6658.840	44.84	6.01	50.85	74.00	-23.15	peak
4	7309.075	44.58	7.17	51.75	74.00	-22.25	peak
5	11562.963	36.11	14.14	50.25	74.00	-23.75	peak
6	14388.105	34.97	16.42	51.39	74.00	-22.61	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

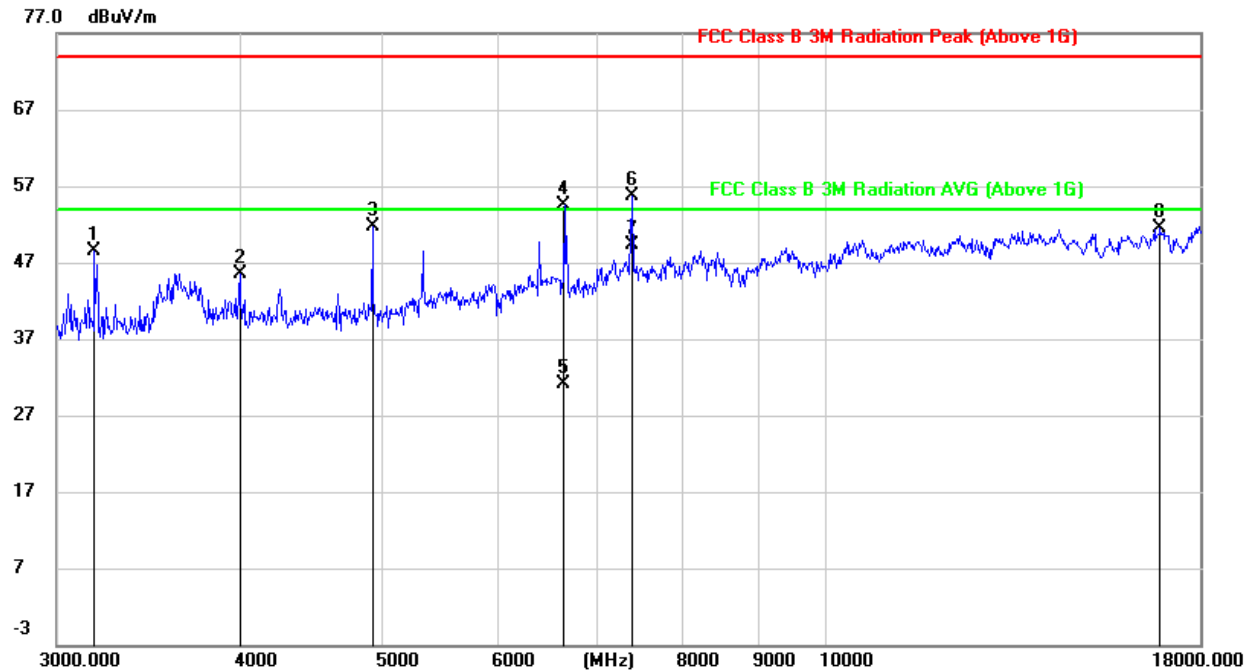


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3614.506	46.77	-3.54	43.23	74.00	-30.77	peak
2	4247.003	46.35	-2.03	44.32	74.00	-29.68	peak
3	4919.161	52.20	0.02	52.22	74.00	-21.78	peak
4	7385.239	48.73	7.43	56.16	74.00	-17.84	peak
5	7385.239	42.43	7.43	49.86	54.00	-4.14	AVG
6	11562.963	36.35	14.14	50.49	74.00	-23.51	peak
7	14439.758	35.78	16.39	52.17	74.00	-21.83	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: $VBW=1/Ton$ where: ton is transmit duration.
5. For transmit duration, please refer to clause 8.1.
6. The High Pass filter loss factor already add into the correct factor.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



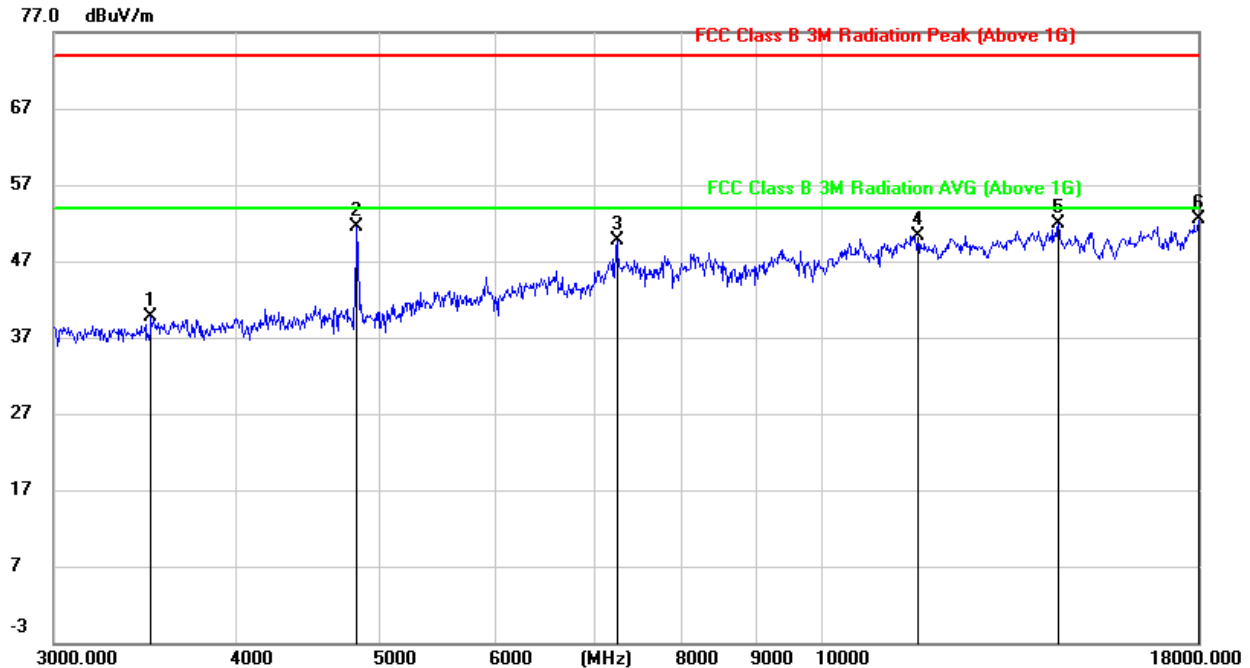
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3188.441	53.00	-4.47	48.53	74.00	-25.47	peak
2	4003.166	48.48	-2.94	45.54	74.00	-28.46	peak
3	4919.161	51.69	0.02	51.71	74.00	-22.29	peak
4	6646.919	48.47	5.99	54.46	74.00	-19.54	peak
5	6646.919	25.17	5.99	31.16	54.00	-22.84	AVG
6	7385.239	48.22	7.43	55.65	74.00	-18.35	peak
7	7385.239	41.79	7.43	49.22	54.00	-4.78	AVG
8	16936.176	31.33	20.08	51.41	74.00	-22.59	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton where: ton is transmit duration.
5. For transmit duration, please refer to clause 8.1.
6. The High Pass filter loss factor already add into the correct factor.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



9.2.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

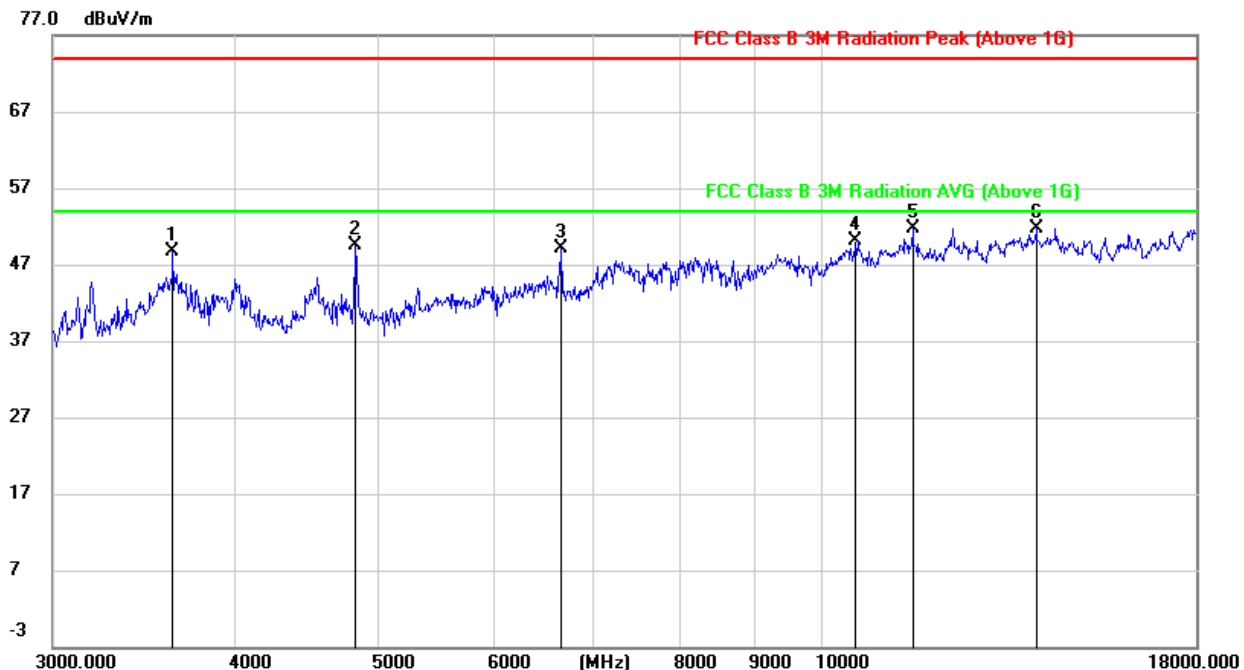


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3493.527	43.98	-4.21	39.77	74.00	-34.23	peak
2	4823.156	51.70	-0.21	51.49	74.00	-22.51	peak
3	7243.887	42.70	6.99	49.69	74.00	-24.31	peak
4	11583.700	36.11	14.16	50.27	74.00	-23.73	peak
5	14465.653	35.50	16.35	51.85	74.00	-22.15	peak
6	18000.000	29.23	23.27	52.50	74.00	-21.50	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

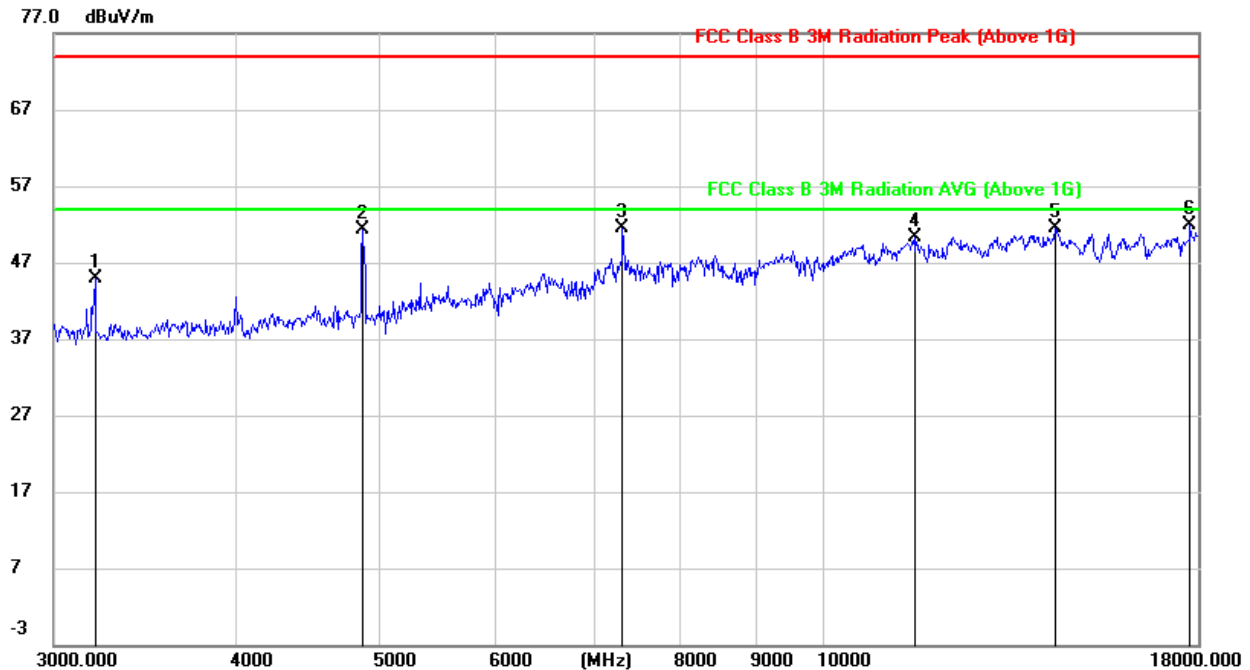


HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3620.988	52.17	-3.50	48.67	74.00	-25.33	peak
2	4823.156	49.74	-0.21	49.53	74.00	-24.47	peak
3	6658.840	43.13	6.01	49.14	74.00	-24.86	peak
4	10591.067	37.40	12.69	50.09	74.00	-23.91	peak
5	11562.963	37.51	14.14	51.65	74.00	-22.35	peak
6	14006.555	35.44	16.36	51.80	74.00	-22.20	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

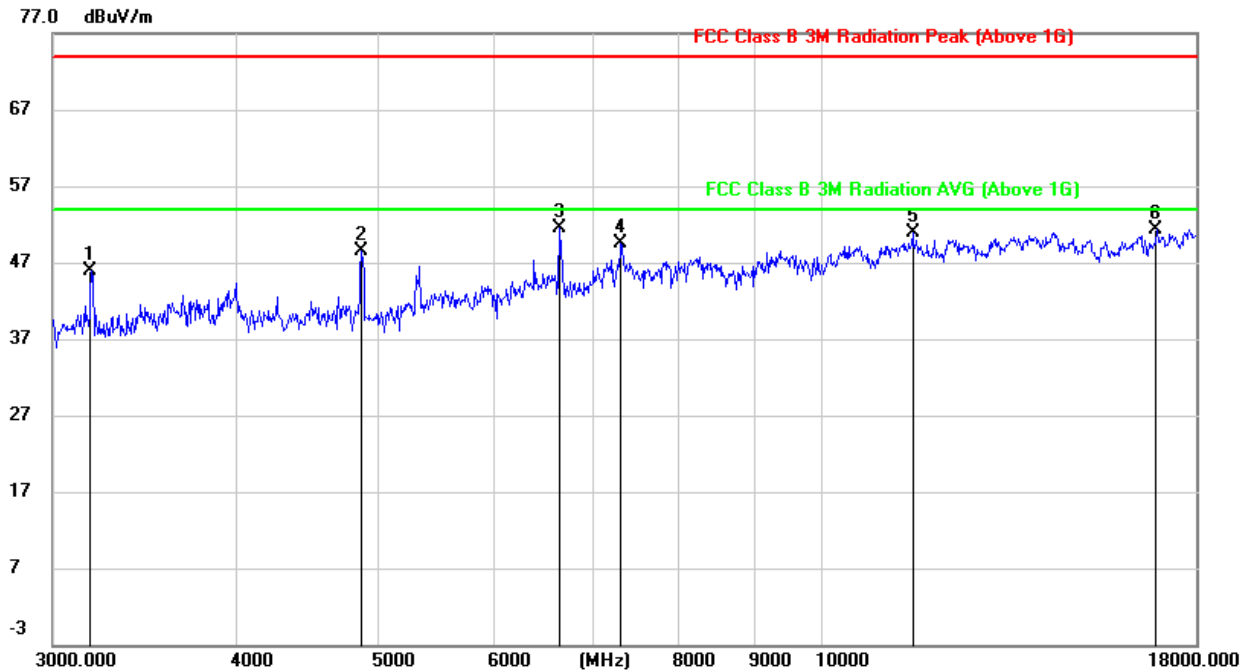
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3199.887	49.43	-4.54	44.89	74.00	-29.11	peak
2	4866.560	51.35	-0.14	51.21	74.00	-22.79	peak
3	7309.075	44.32	7.17	51.49	74.00	-22.51	peak
4	11562.963	36.16	14.14	50.30	74.00	-23.70	peak
5	14388.105	35.10	16.42	51.52	74.00	-22.48	peak
6	17775.648	28.99	22.98	51.97	74.00	-22.03	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

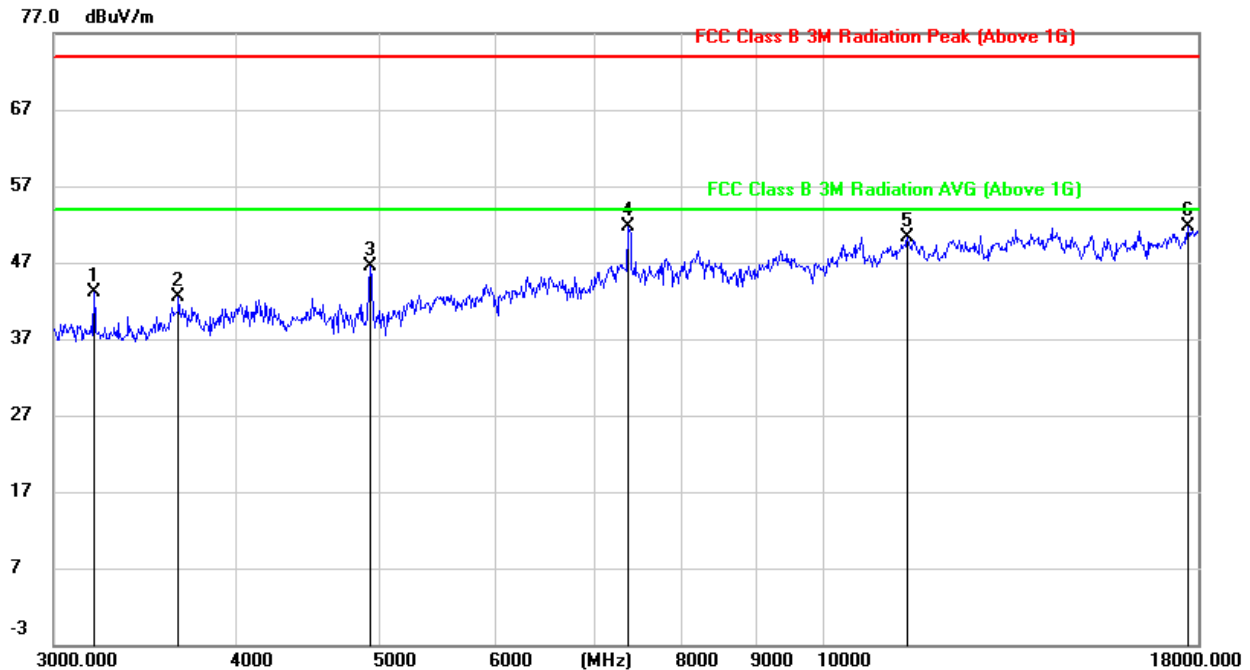


HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3188.441	50.36	-4.47	45.89	74.00	-28.11	peak
2	4866.560	48.56	-0.14	48.42	74.00	-25.58	peak
3	6635.020	45.51	5.97	51.48	74.00	-22.52	peak
4	7309.075	42.40	7.17	49.57	74.00	-24.43	peak
5	11562.963	36.67	14.14	50.81	74.00	-23.19	peak
6	16936.176	31.17	20.08	51.25	74.00	-22.75	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

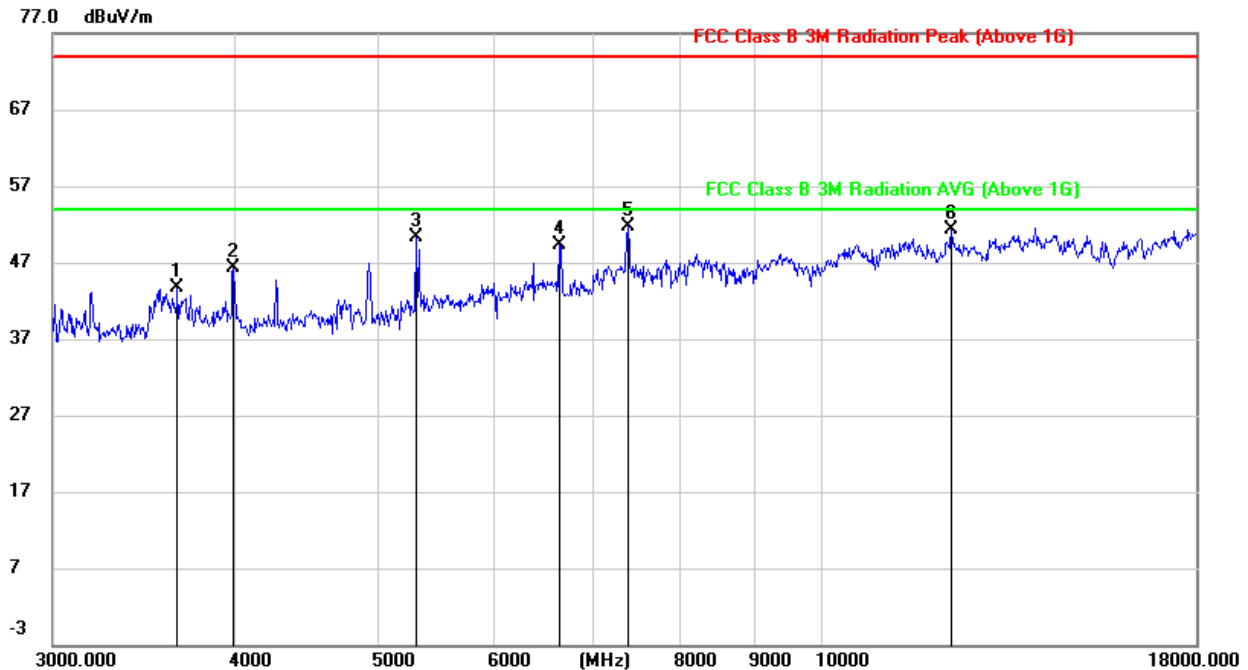
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3194.159	47.55	-4.50	43.05	74.00	-30.95	peak
2	3647.033	45.89	-3.30	42.59	74.00	-31.41	peak
3	4927.982	46.53	0.07	46.60	74.00	-27.40	peak
4	7374.850	44.36	7.39	51.75	74.00	-22.25	peak
5	11418.843	36.75	13.49	50.24	74.00	-23.76	peak
6	17712.063	29.41	22.36	51.77	74.00	-22.23	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



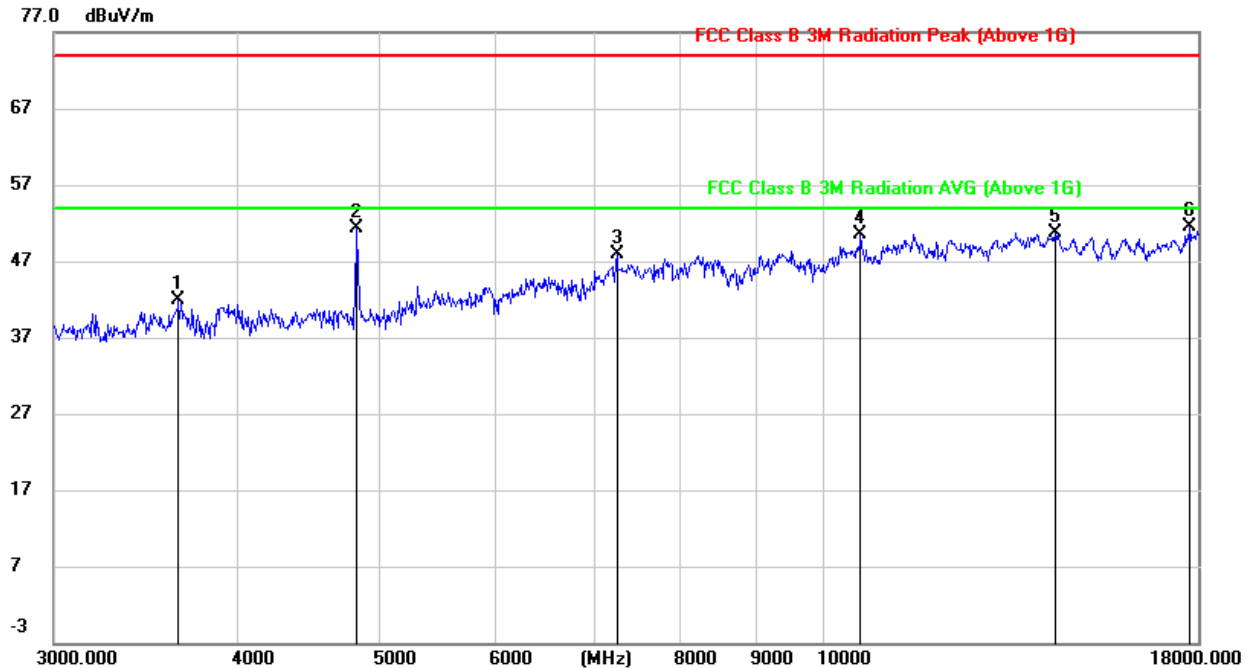
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3647.033	46.94	-3.30	43.64	74.00	-30.36	peak
2	3981.706	49.23	-2.98	46.25	74.00	-27.75	peak
3	5303.632	48.61	1.60	50.21	74.00	-23.79	peak
4	6635.020	43.36	5.97	49.33	74.00	-24.67	peak
5	7388.076	44.18	7.44	51.62	74.00	-22.38	peak
6	12267.276	37.04	14.34	51.38	74.00	-22.62	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



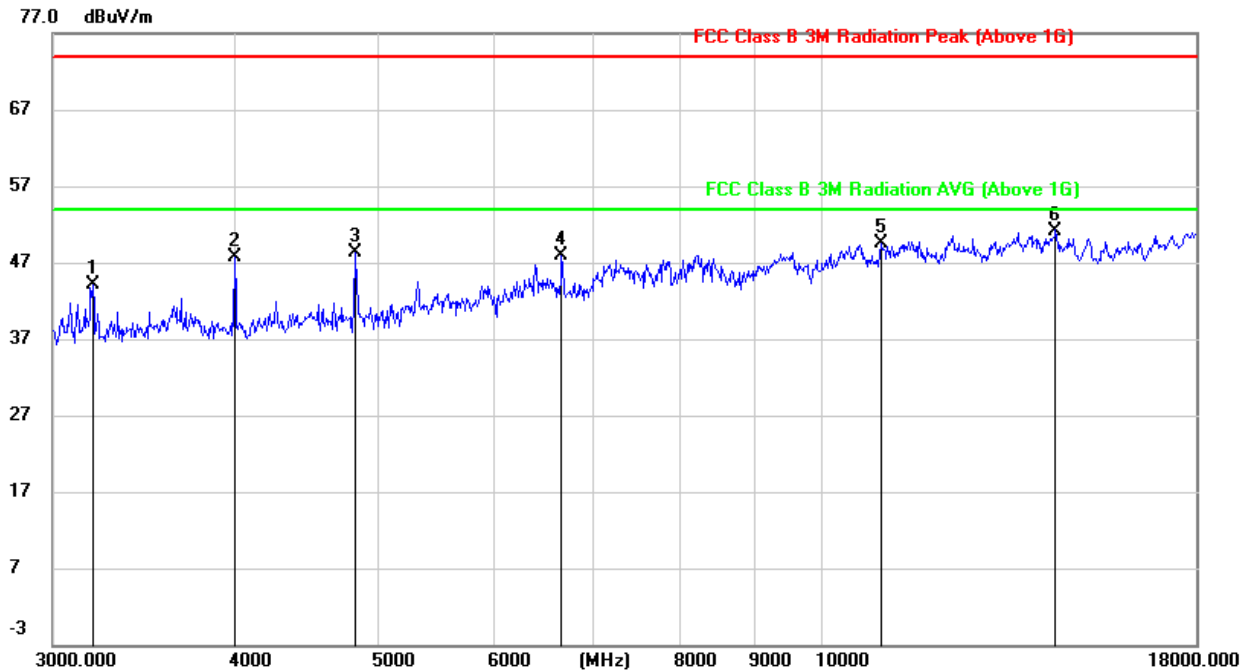
9.2.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3647.033	45.22	-3.30	41.92	74.00	-32.08	peak
2	4823.156	51.59	-0.21	51.38	74.00	-22.62	peak
3	7243.887	41.00	6.99	47.99	74.00	-26.01	peak
4	10610.061	37.81	12.74	50.55	74.00	-23.45	peak
5	14388.105	34.36	16.42	50.78	74.00	-23.22	peak
6	17775.648	28.51	22.98	51.49	74.00	-22.51	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

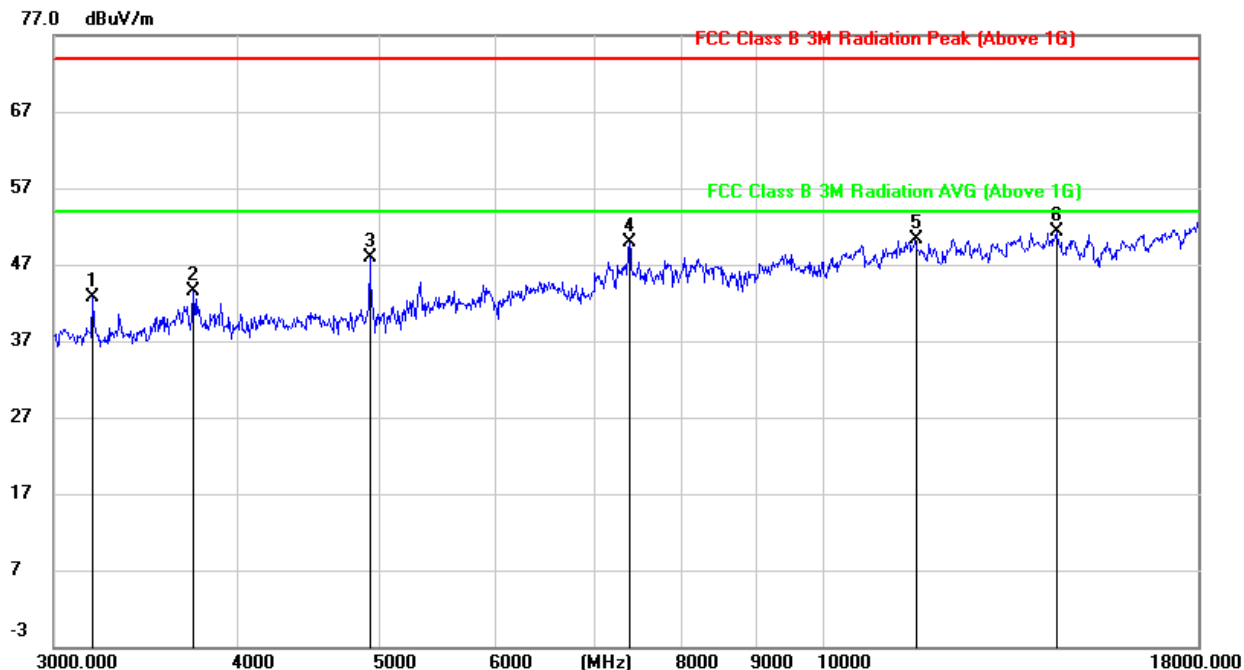
**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3194.159	48.66	-4.50	44.16	74.00	-29.84	peak
2	3988.846	50.68	-2.95	47.73	74.00	-26.27	peak
3	4814.522	48.59	-0.23	48.36	74.00	-25.64	peak
4	6658.840	41.91	6.01	47.92	74.00	-26.08	peak
5	10997.169	36.18	13.24	49.42	74.00	-24.58	peak
6	14439.758	34.81	16.39	51.20	74.00	-22.80	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

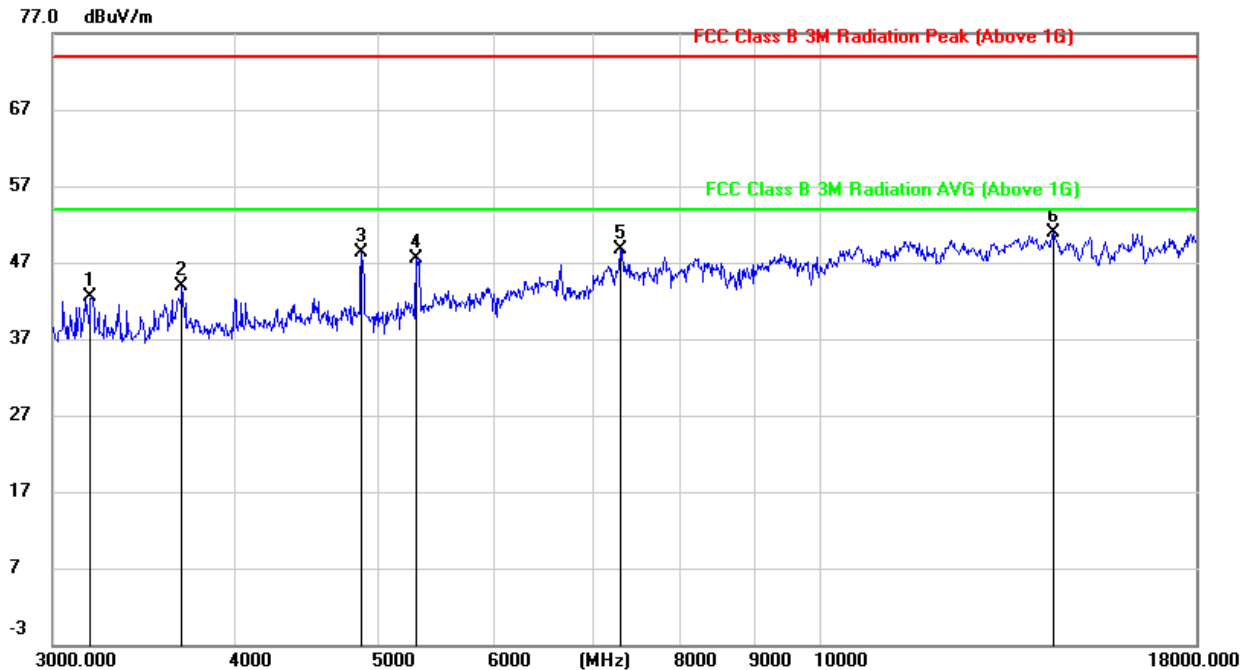


HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



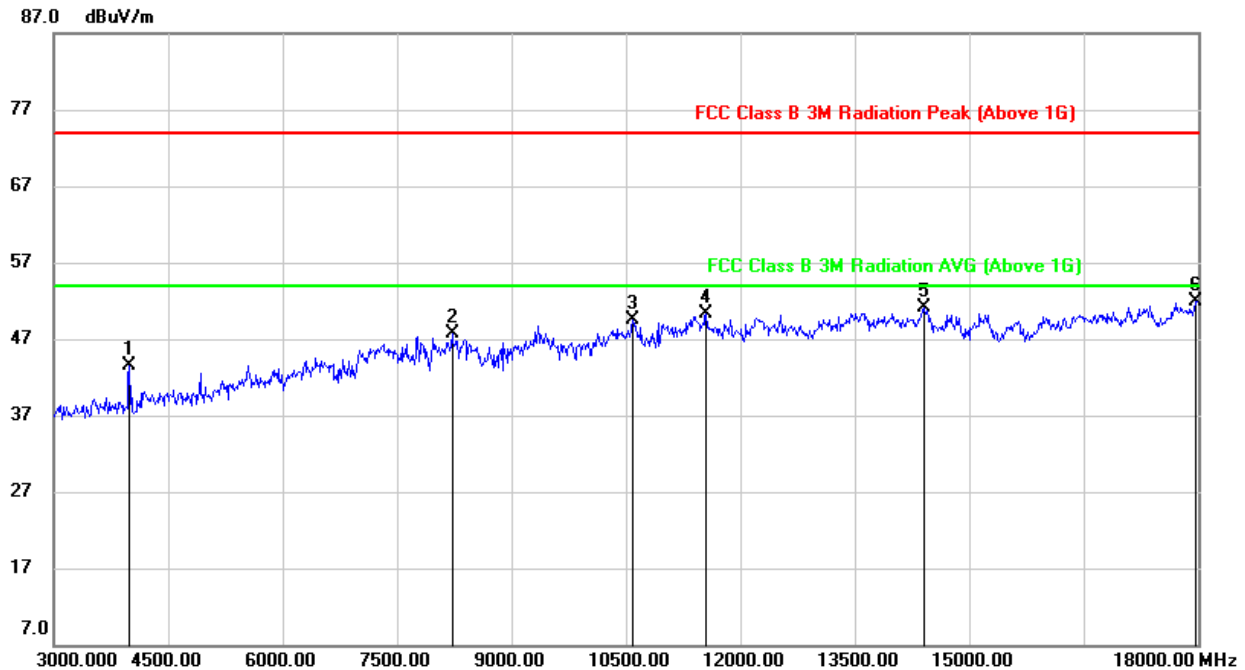
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3188.441	47.16	-4.47	42.69	74.00	-31.31	peak
2	3739.675	46.40	-2.95	43.45	74.00	-30.55	peak
3	4919.161	47.91	0.02	47.93	74.00	-26.07	peak
4	7388.076	42.50	7.44	49.94	74.00	-24.06	peak
5	11583.700	36.06	14.16	50.22	74.00	-23.78	peak
6	14413.908	34.86	16.41	51.27	74.00	-22.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3188.441	47.01	-4.47	42.54	74.00	-31.46	peak
2	3673.266	46.91	-3.08	43.83	74.00	-30.17	peak
3	4866.560	48.52	-0.14	48.38	74.00	-25.62	peak
4	5303.632	45.99	1.60	47.59	74.00	-26.41	peak
5	7309.075	41.56	7.17	48.73	74.00	-25.27	peak
6	14388.105	34.47	16.42	50.89	74.00	-23.11	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

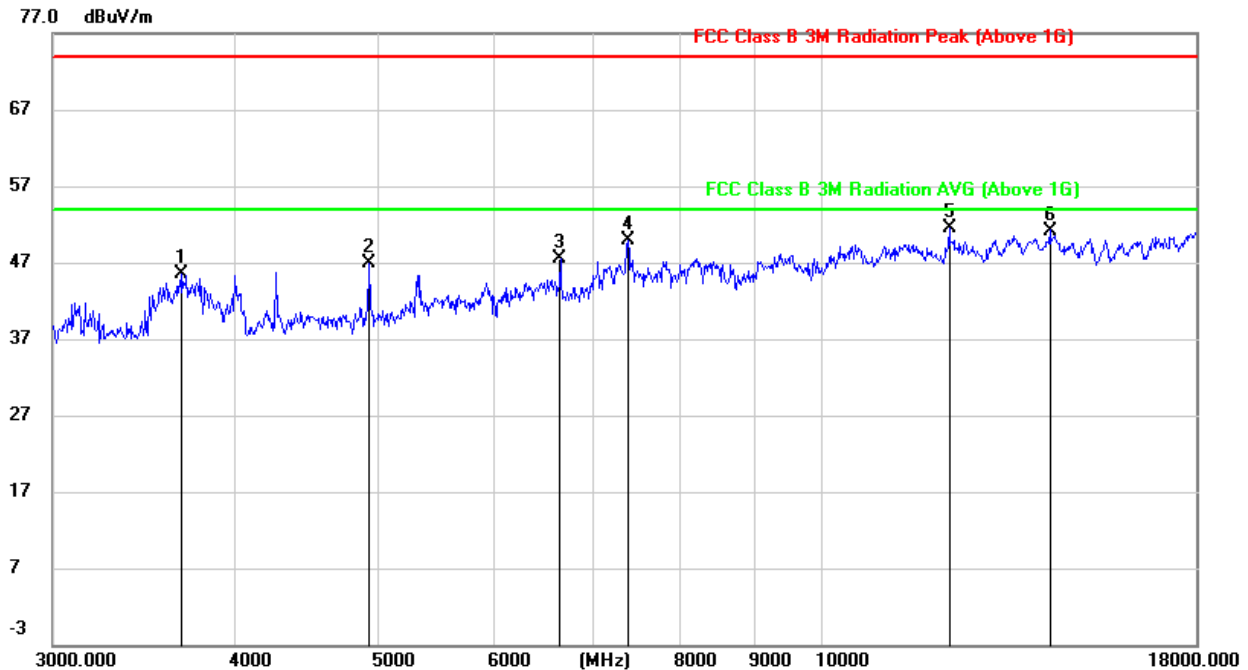
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3990.000	46.40	-2.95	43.45	74.00	-30.55	peak
2	8220.000	38.23	9.40	47.63	74.00	-26.37	peak
3	10590.000	36.80	12.68	49.48	74.00	-24.52	peak
4	11550.000	36.08	14.13	50.21	74.00	-23.79	peak
5	14415.000	34.74	16.41	51.15	74.00	-22.85	peak
6	17970.000	28.67	23.24	51.91	74.00	-22.09	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



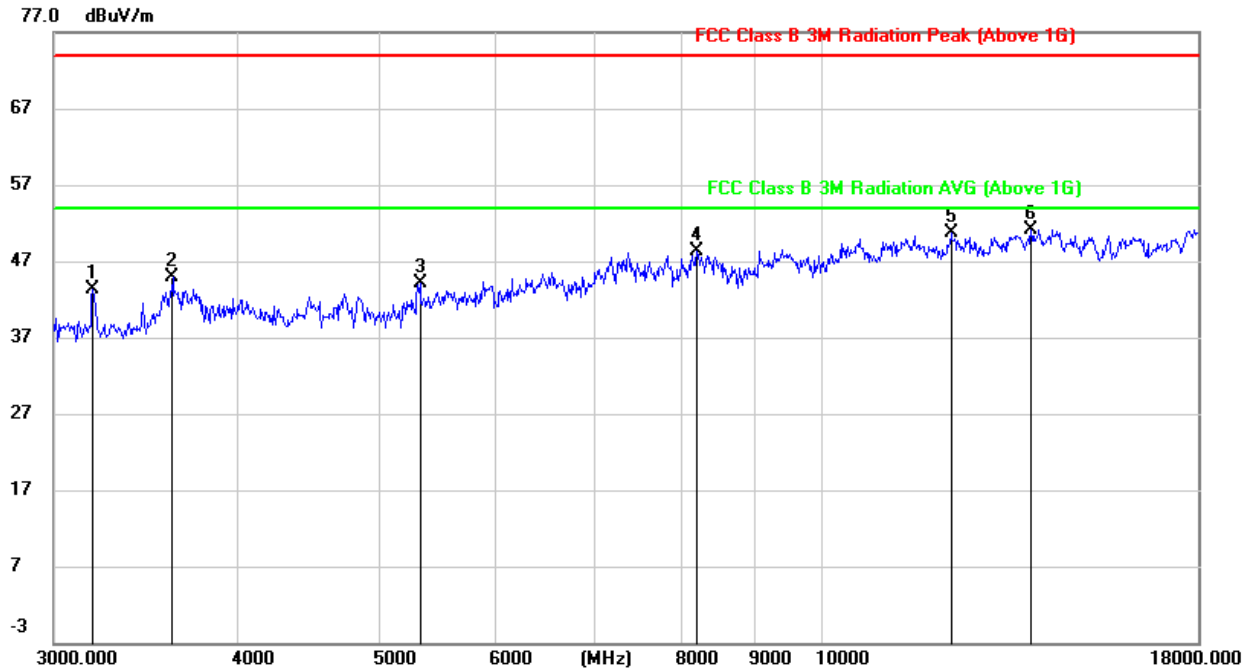
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3673.266	48.51	-3.08	45.43	74.00	-28.57	peak
2	4927.982	46.83	0.07	46.90	74.00	-27.10	peak
3	6646.919	41.44	5.99	47.43	74.00	-26.57	peak
4	7388.076	42.48	7.44	49.92	74.00	-24.08	peak
5	12223.395	37.19	14.26	51.45	74.00	-22.55	peak
6	14310.972	34.88	16.32	51.20	74.00	-22.80	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



9.2.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

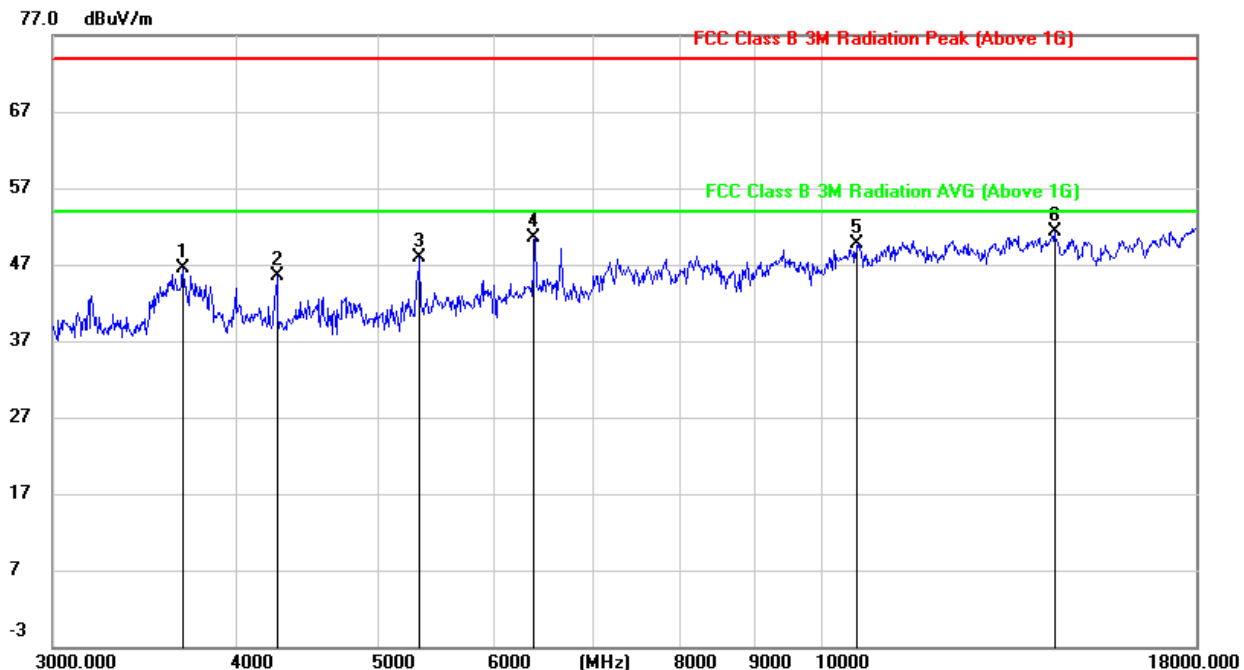


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3188.441	47.68	-4.47	43.21	74.00	-30.79	peak
2	3614.506	48.53	-3.54	44.99	74.00	-29.01	peak
3	5332.217	42.46	1.56	44.02	74.00	-29.98	peak
4	8211.874	38.82	9.50	48.32	74.00	-25.68	peak
5	12223.395	36.36	14.26	50.62	74.00	-23.38	peak
6	13856.783	34.69	16.44	51.13	74.00	-22.87	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

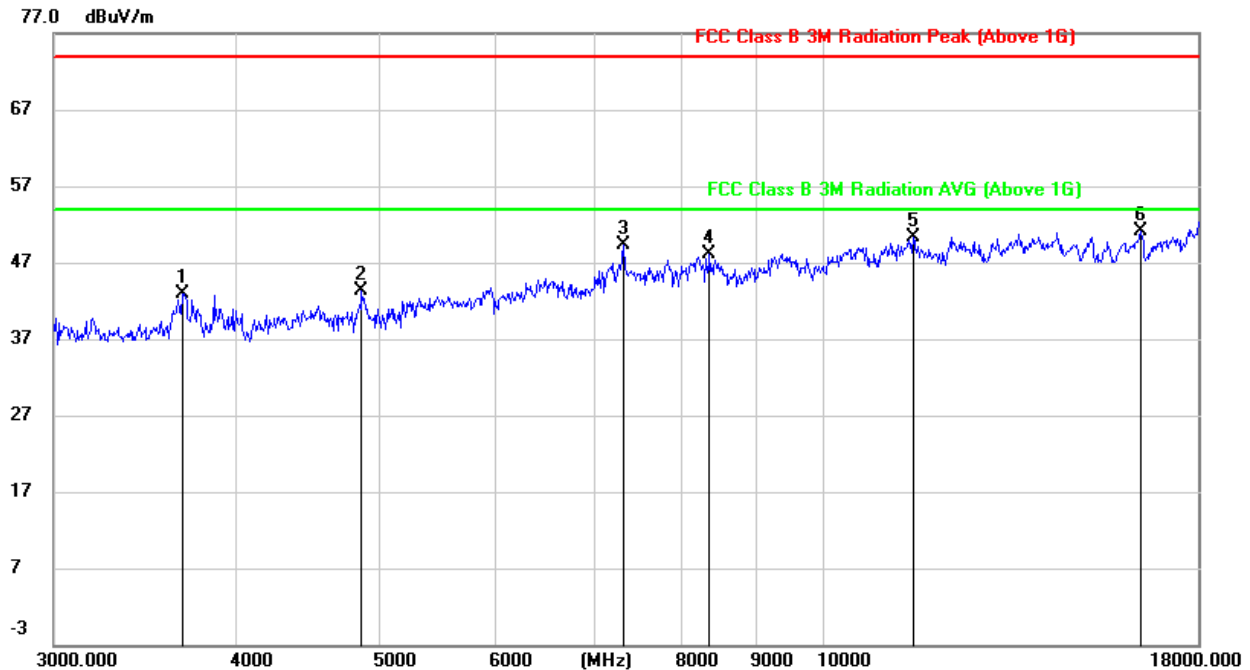


HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3679.853	49.45	-3.04	46.41	74.00	-27.59	peak
2	4262.250	47.67	-2.11	45.56	74.00	-28.44	peak
3	5332.217	46.39	1.56	47.95	74.00	-26.05	peak
4	6390.003	45.50	4.97	50.47	74.00	-23.53	peak
5	10591.067	37.03	12.69	49.72	74.00	-24.28	peak
6	14413.908	34.81	16.41	51.22	74.00	-22.78	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

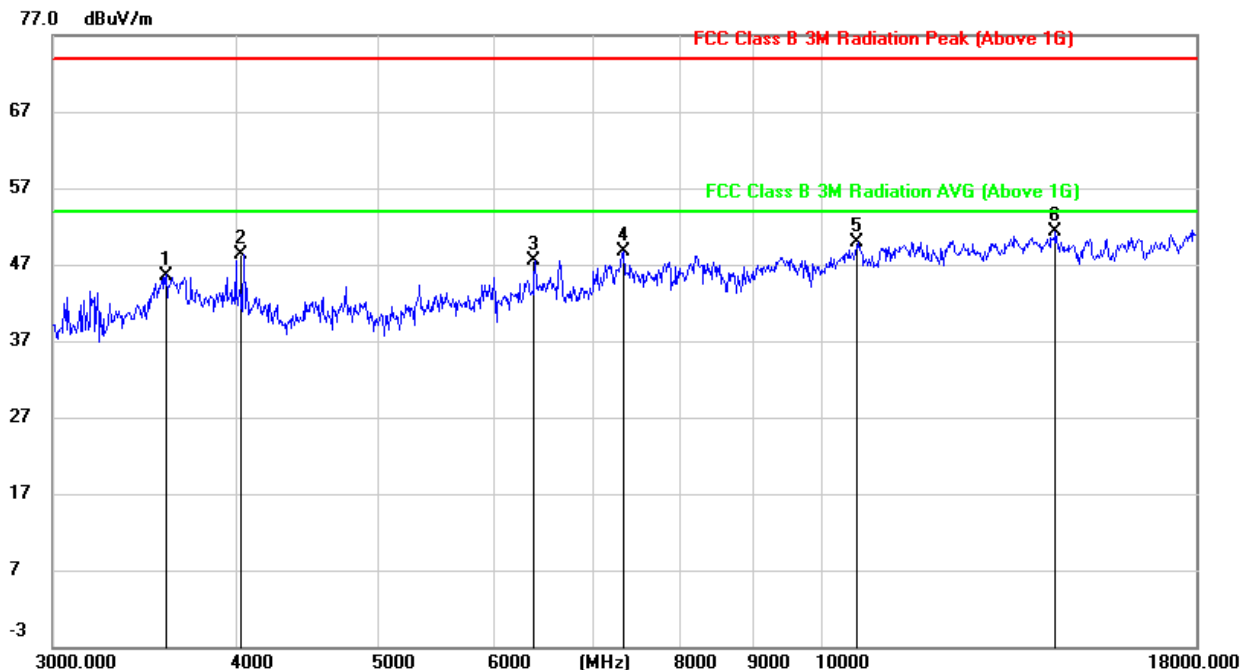
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3666.690	46.10	-3.15	42.95	74.00	-31.05	peak
2	4857.848	43.48	-0.15	43.33	74.00	-30.67	peak
3	7322.183	42.14	7.22	49.36	74.00	-24.64	peak
4	8375.330	39.41	8.66	48.07	74.00	-25.93	peak
5	11521.601	36.13	14.10	50.23	74.00	-23.77	peak
6	16487.055	32.29	18.85	51.14	74.00	-22.86	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)

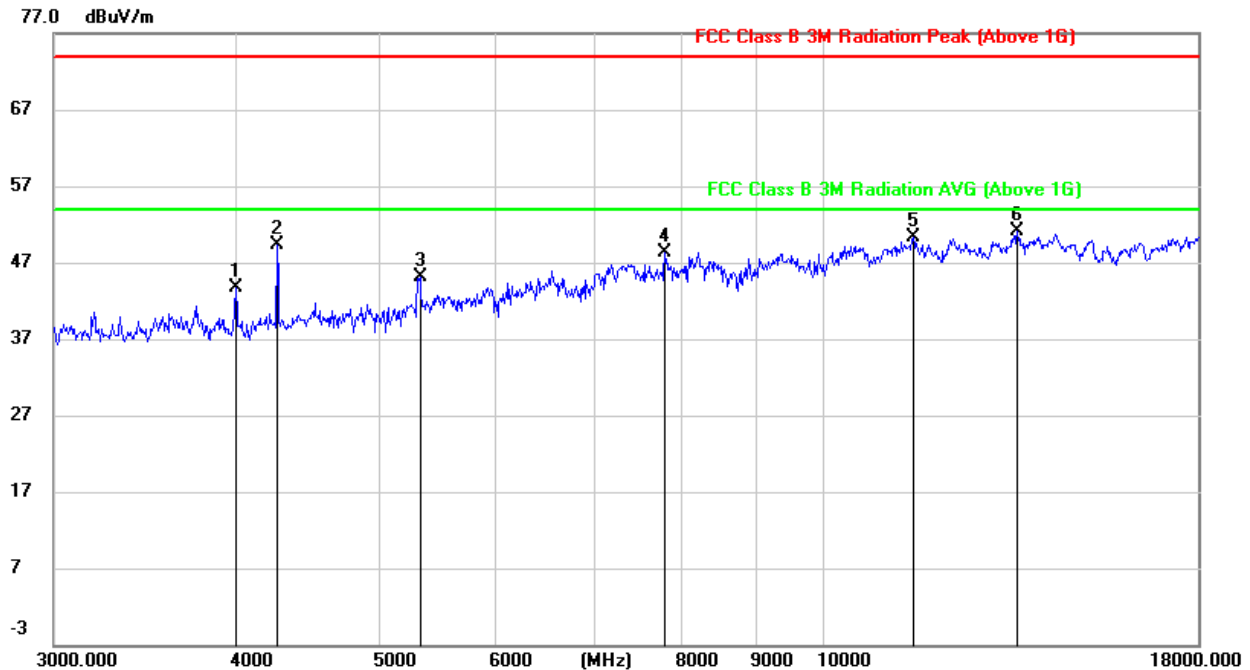


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3588.693	49.31	-3.71	45.60	74.00	-28.40	peak
2	4046.434	51.28	-2.93	48.35	74.00	-25.65	peak
3	6390.003	42.60	4.97	47.57	74.00	-26.43	peak
4	7335.314	41.35	7.27	48.62	74.00	-25.38	peak
5	10591.067	37.28	12.69	49.97	74.00	-24.03	peak
6	14439.758	34.84	16.39	51.23	74.00	-22.77	peak

- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

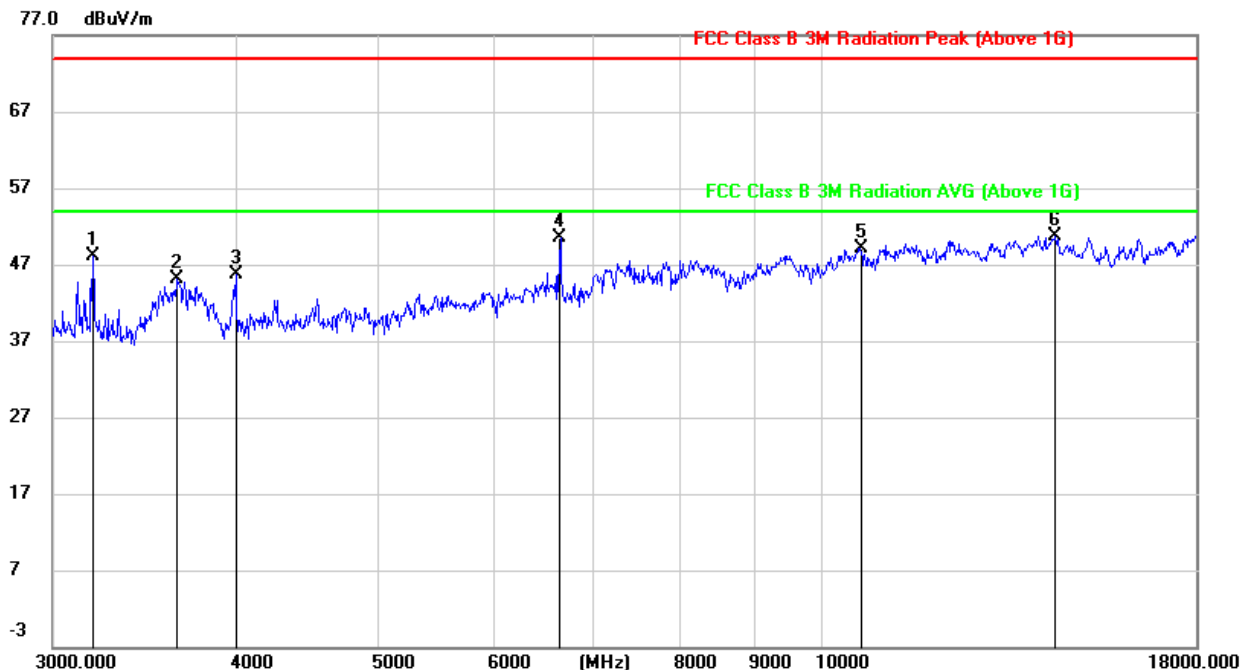


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3988.846	46.57	-2.95	43.62	74.00	-30.38	peak
2	4254.620	51.38	-2.06	49.32	74.00	-24.68	peak
3	5332.217	43.62	1.56	45.18	74.00	-28.82	peak
4	7810.054	39.52	8.82	48.34	74.00	-25.66	peak
5	11521.601	36.16	14.10	50.26	74.00	-23.74	peak
6	13586.349	35.14	16.03	51.17	74.00	-22.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	3194.159	52.53	-4.50	48.03	74.00	-25.97	peak
2	3647.033	48.47	-3.30	45.17	74.00	-28.83	peak
3	4003.166	48.55	-2.94	45.61	74.00	-28.39	peak
4	6646.919	44.60	5.99	50.59	74.00	-23.41	peak
5	10648.151	36.68	12.51	49.19	74.00	-24.81	peak
6	14439.758	34.36	16.39	50.75	74.00	-23.25	peak

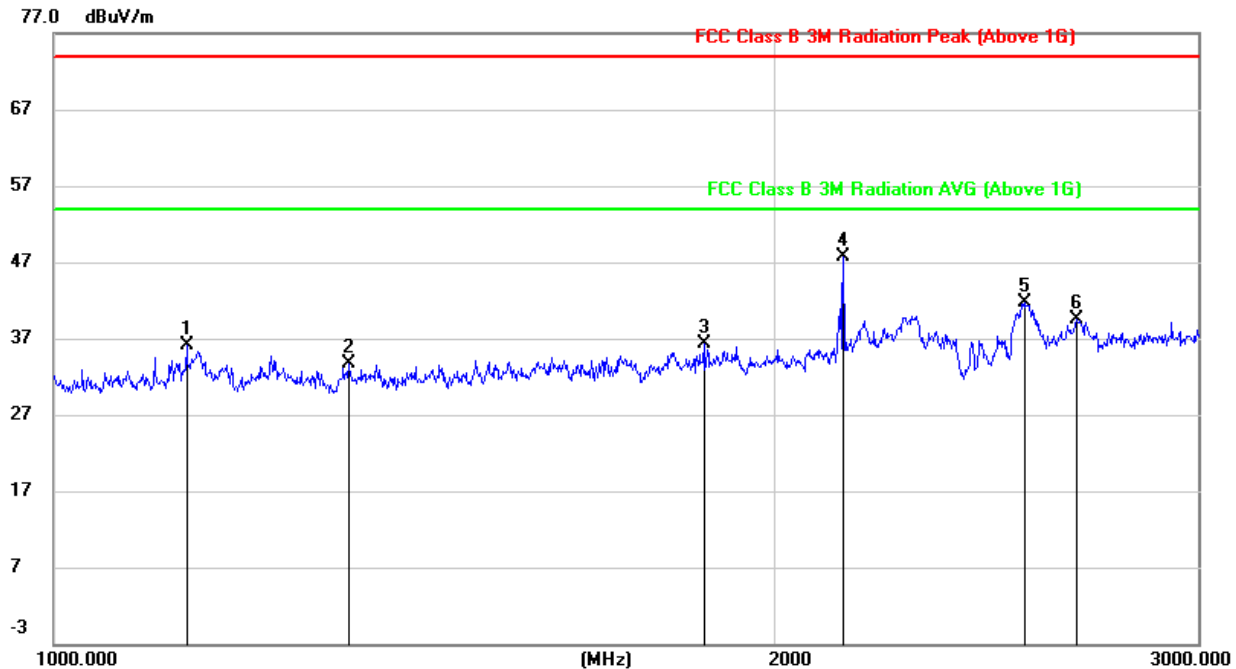
- Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The High Pass filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



9.3. SPURIOUS EMISSIONS (1~3GHz)

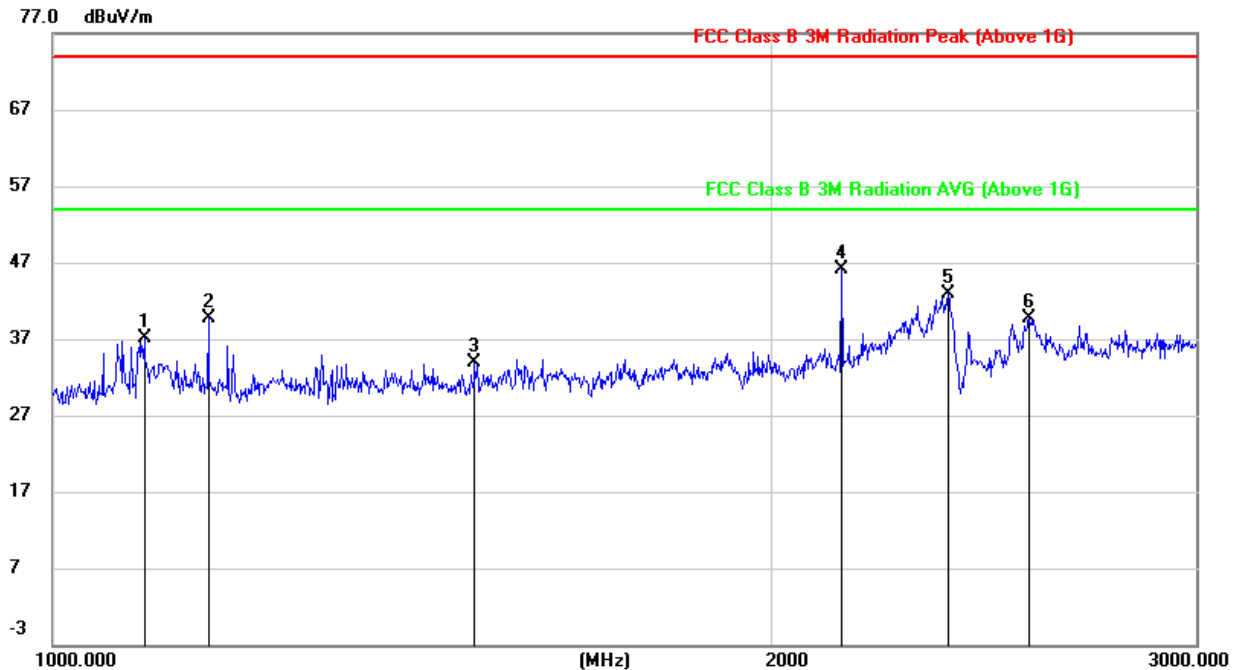
9.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



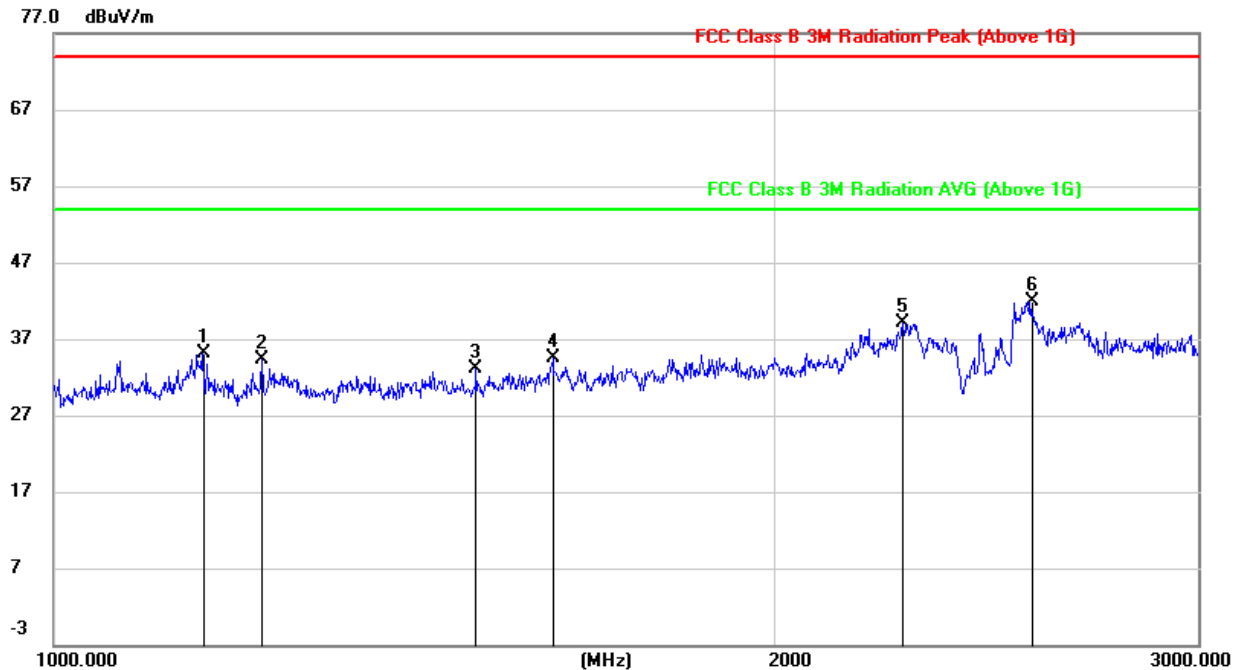
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1135.916	48.98	-12.80	36.18	74.00	-37.82	peak
2	1327.692	45.47	-11.86	33.61	74.00	-40.39	peak
3	1866.401	45.76	-9.45	36.31	74.00	-37.69	peak
4	2134.095	56.03	-8.42	47.61	74.00	-26.39	peak
5	2541.417	48.09	-6.33	41.76	74.00	-32.24	peak
6	2670.216	45.74	-6.16	39.58	74.00	-34.42	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

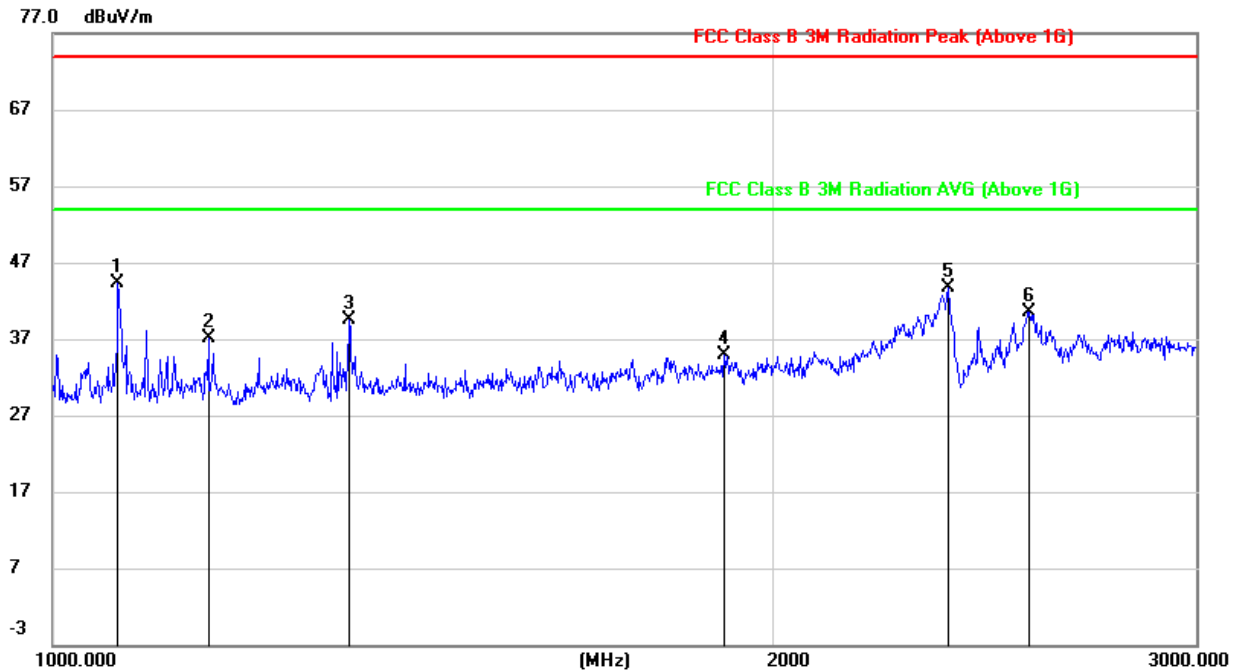
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1091.867	50.23	-13.15	37.08	74.00	-36.92	peak
2	1161.150	52.34	-12.57	39.77	74.00	-34.23	peak
3	1499.884	45.64	-11.76	33.88	74.00	-40.12	peak
4	2134.095	54.45	-8.42	46.03	74.00	-27.97	peak
5	2366.263	49.97	-7.16	42.81	74.00	-31.19	peak
6	2555.416	46.09	-6.39	39.70	74.00	-34.30	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1154.790	47.74	-12.63	35.11	74.00	-38.89	peak
2	1222.681	46.35	-12.12	34.23	74.00	-39.77	peak
3	1499.884	44.85	-11.76	33.09	74.00	-40.91	peak
4	1614.451	45.32	-10.80	34.52	74.00	-39.48	peak
5	2259.561	46.80	-7.72	39.08	74.00	-34.92	peak
6	2555.416	48.25	-6.39	41.86	74.00	-32.14	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

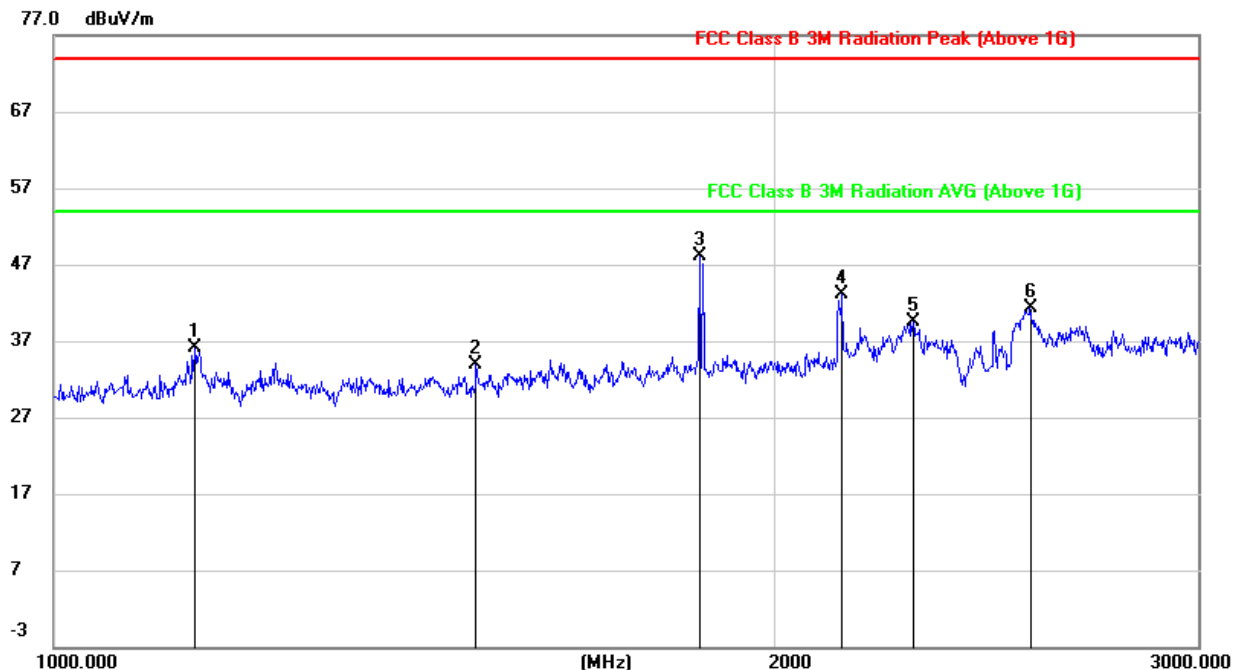
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1064.623	57.43	-13.21	44.22	74.00	-29.78	peak
2	1161.150	49.69	-12.57	37.12	74.00	-36.88	peak
3	1330.612	51.38	-11.86	39.52	74.00	-34.48	peak
4	1905.769	44.33	-9.36	34.97	74.00	-39.03	peak
5	2366.263	50.95	-7.16	43.79	74.00	-30.21	peak
6	2555.416	46.97	-6.39	40.58	74.00	-33.42	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

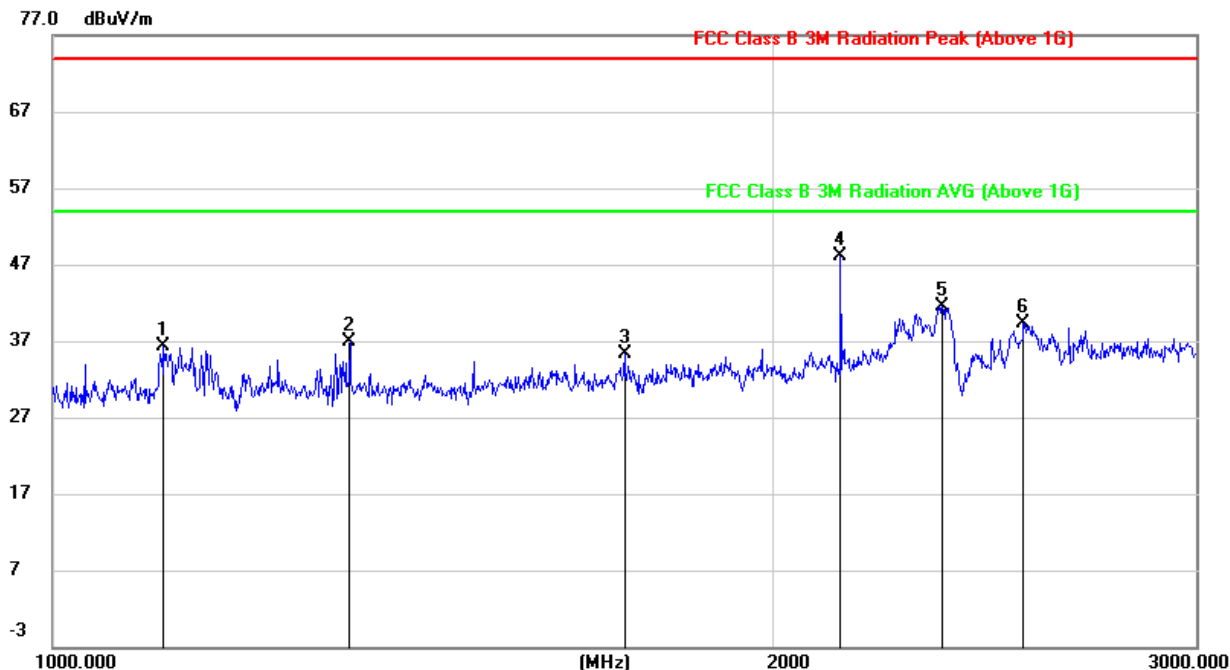


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1145.943	48.76	-12.71	36.05	74.00	-37.95	peak
2	1499.884	45.63	-11.76	33.87	74.00	-40.13	peak
3	1858.217	57.60	-9.47	48.13	74.00	-25.87	peak
4	2131.751	51.55	-8.42	43.13	74.00	-30.87	peak
5	2282.013	47.06	-7.58	39.48	74.00	-34.52	peak
6	2555.416	47.67	-6.39	41.28	74.00	-32.72	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



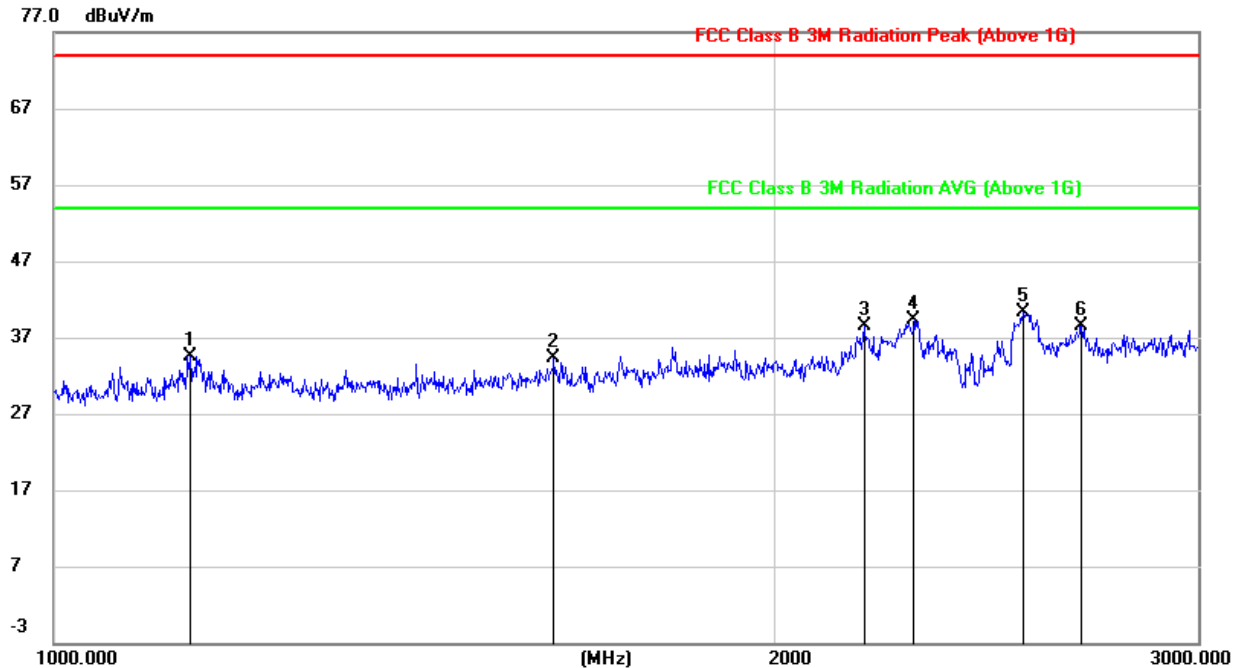
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1113.673	49.36	-13.01	36.35	74.00	-37.65	peak
2	1330.612	48.81	-11.86	36.95	74.00	-37.05	peak
3	1732.051	45.56	-10.28	35.28	74.00	-38.72	peak
4	2131.751	56.50	-8.42	48.08	74.00	-25.92	peak
5	2350.717	48.82	-7.23	41.59	74.00	-32.41	peak
6	2544.211	45.66	-6.35	39.31	74.00	-34.69	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



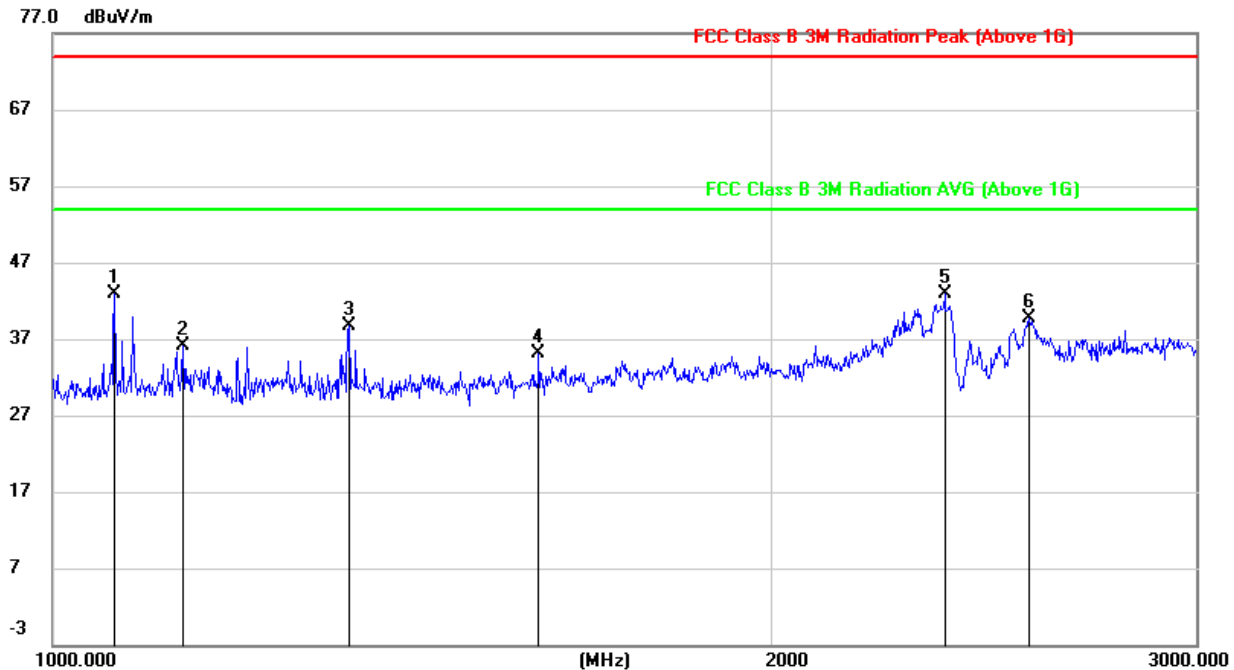
9.3.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



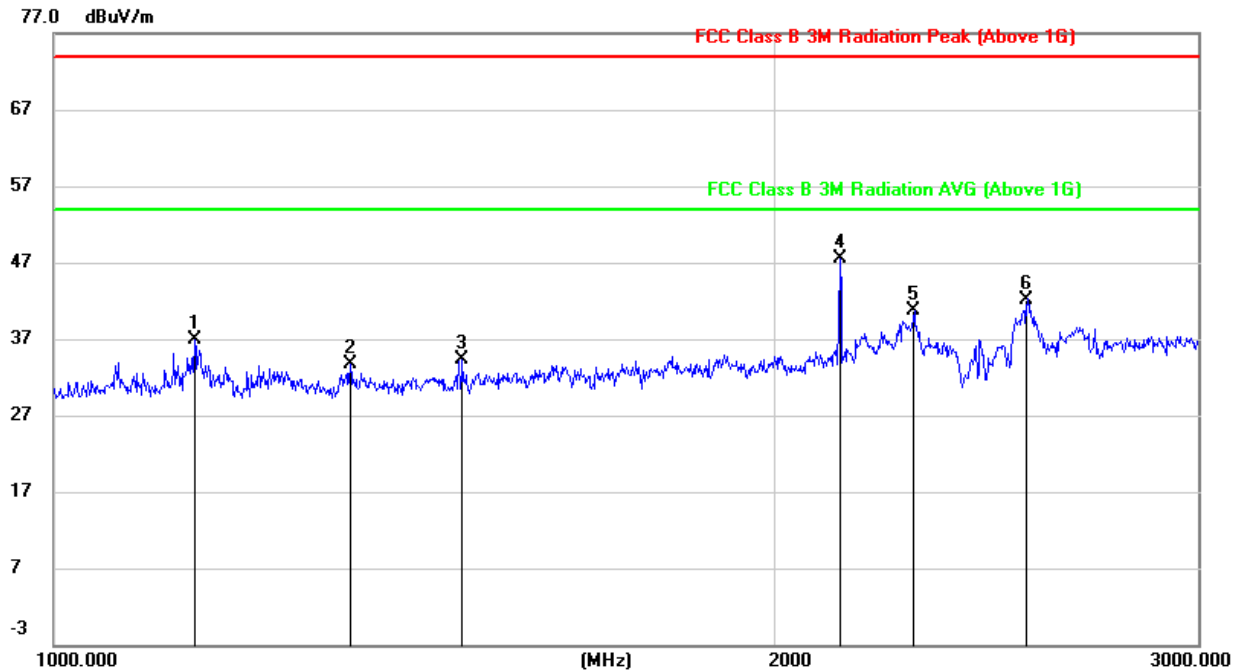
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1139.666	47.31	-12.76	34.55	74.00	-39.45	peak
2	1616.226	45.03	-10.79	34.24	74.00	-39.76	peak
3	2179.109	46.80	-8.20	38.60	74.00	-35.40	peak
4	2284.521	46.93	-7.57	39.36	74.00	-34.64	peak
5	2538.627	46.57	-6.33	40.24	74.00	-33.76	peak
6	2684.924	44.59	-6.07	38.52	74.00	-35.48	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

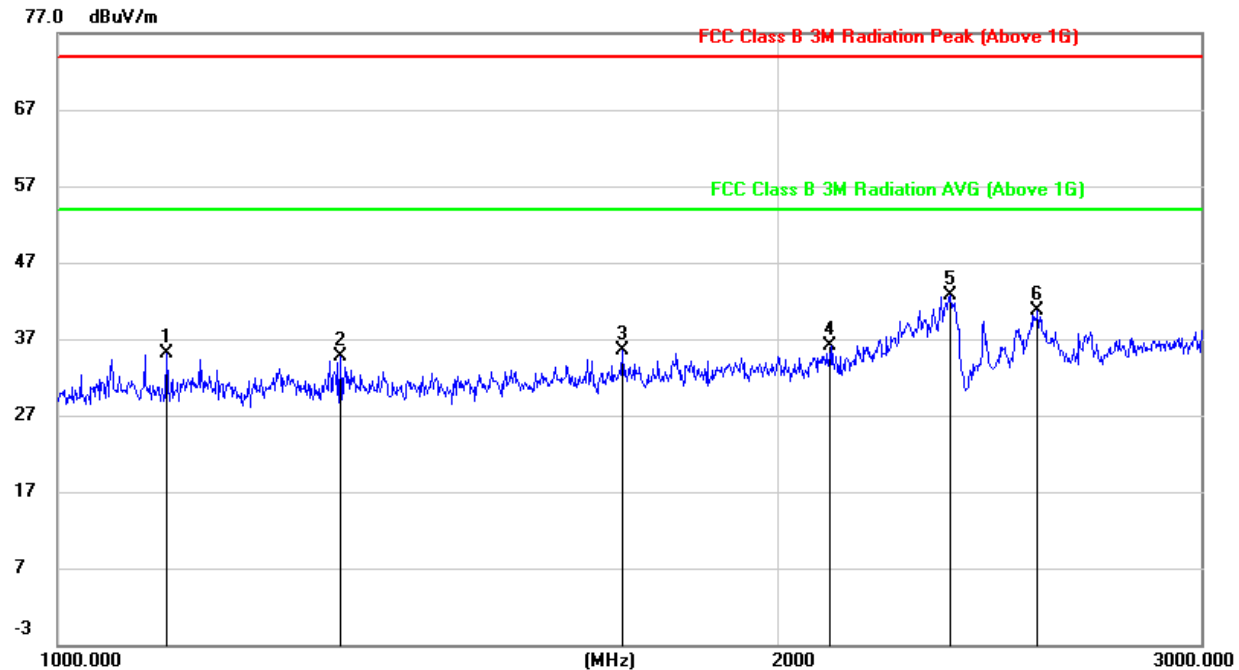
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1061.120	56.10	-13.23	42.87	74.00	-31.13	peak
2	1134.668	48.87	-12.81	36.06	74.00	-37.94	peak
3	1330.612	50.54	-11.86	38.68	74.00	-35.32	peak
4	1595.058	46.08	-10.88	35.20	74.00	-38.80	peak
5	2358.477	50.07	-7.20	42.87	74.00	-31.13	peak
6	2555.416	46.17	-6.39	39.78	74.00	-34.22	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1145.943	49.65	-12.71	36.94	74.00	-37.06	peak
2	1330.612	45.53	-11.86	33.67	74.00	-40.33	peak
3	1480.241	46.14	-11.80	34.34	74.00	-39.66	peak
4	2127.073	55.87	-8.46	47.41	74.00	-26.59	peak
5	2284.521	48.27	-7.57	40.70	74.00	-33.30	peak
6	2547.007	48.56	-6.36	42.20	74.00	-31.80	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

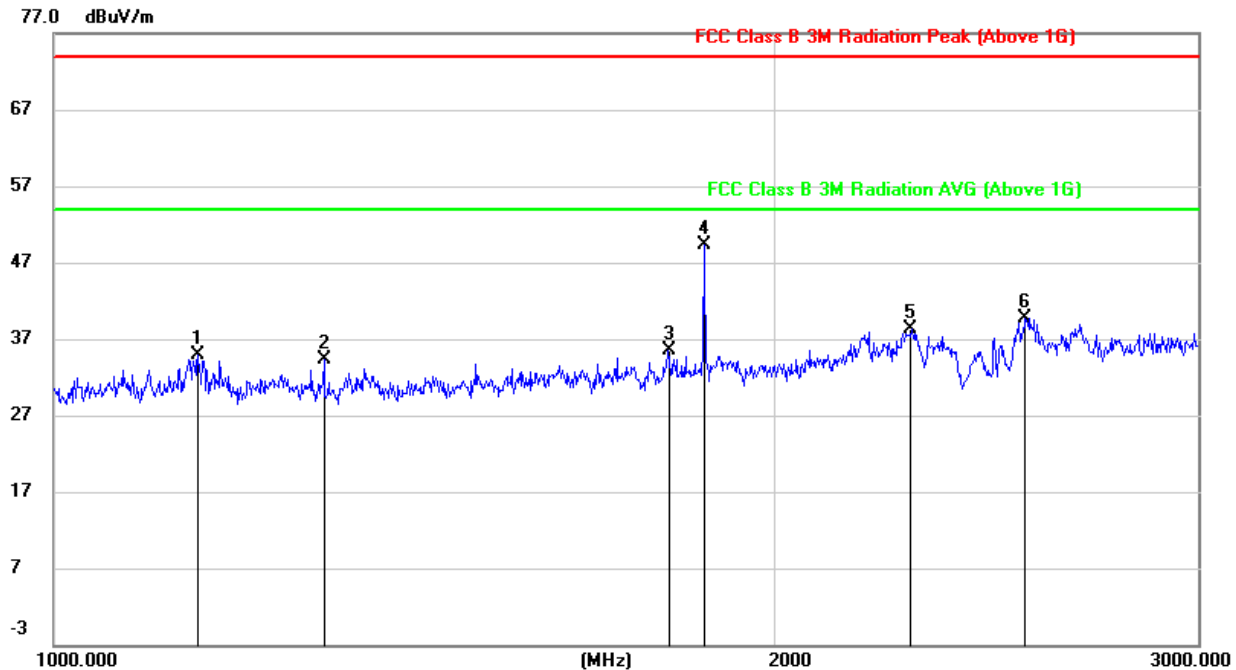
**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1110.009	48.14	-13.04	35.10	74.00	-38.90	peak
2	1313.185	46.50	-11.86	34.64	74.00	-39.36	peak
3	1720.671	45.81	-10.39	35.42	74.00	-38.58	peak
4	2103.832	44.67	-8.56	36.11	74.00	-37.89	peak
5	2358.477	49.97	-7.20	42.77	74.00	-31.23	peak
6	2563.852	47.12	-6.43	40.69	74.00	-33.31	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

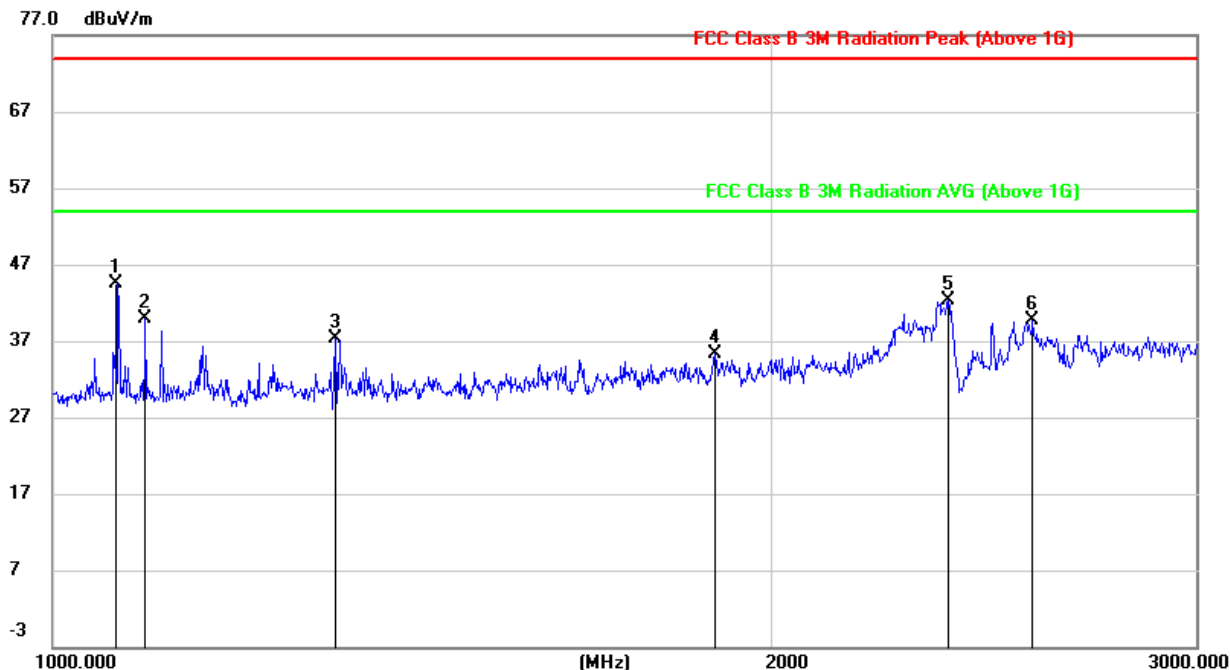


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1148.464	47.60	-12.68	34.92	74.00	-39.08	peak
2	1295.987	46.11	-11.87	34.24	74.00	-39.76	peak
3	1805.890	45.21	-9.61	35.60	74.00	-38.40	peak
4	1866.401	58.67	-9.45	49.22	74.00	-24.78	peak
5	2279.507	45.96	-7.61	38.35	74.00	-35.65	peak
6	2544.211	46.10	-6.35	39.75	74.00	-34.25	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



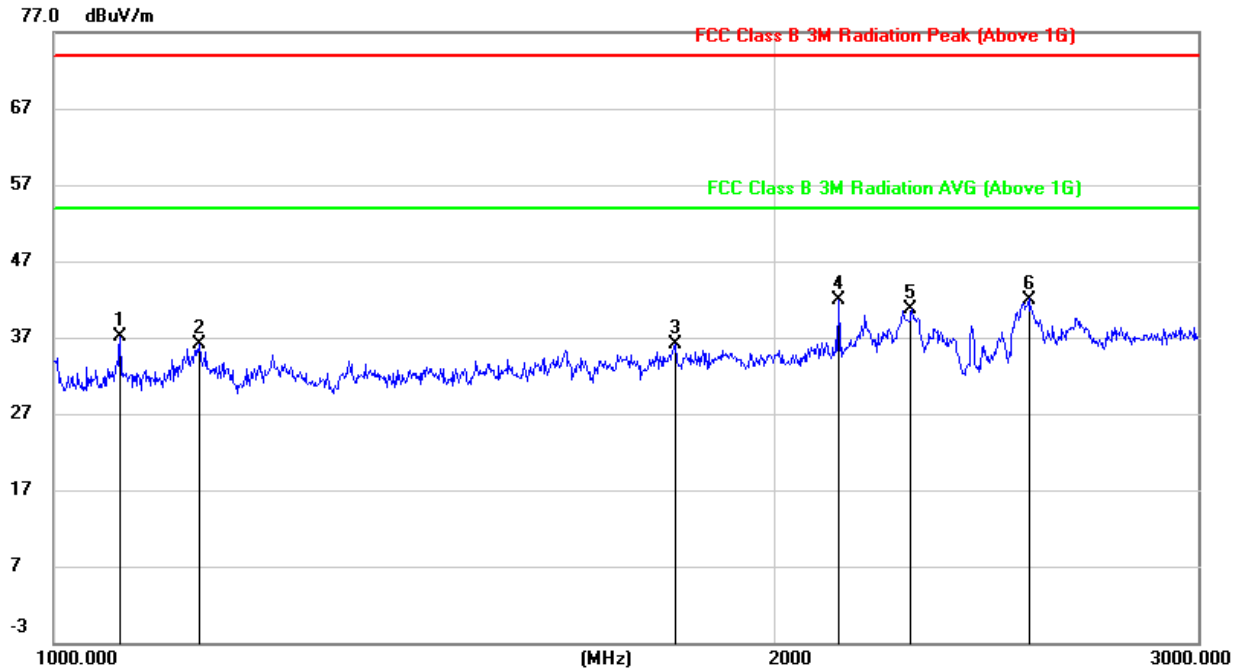
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1064.623	57.65	-13.21	44.44	74.00	-29.56	peak
2	1093.067	53.12	-13.15	39.97	74.00	-34.03	peak
3	1313.185	49.09	-11.86	37.23	74.00	-36.77	peak
4	1889.092	44.62	-9.38	35.24	74.00	-38.76	peak
5	2366.263	49.41	-7.16	42.25	74.00	-31.75	peak
6	2563.852	46.06	-6.43	39.63	74.00	-34.37	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



9.3.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

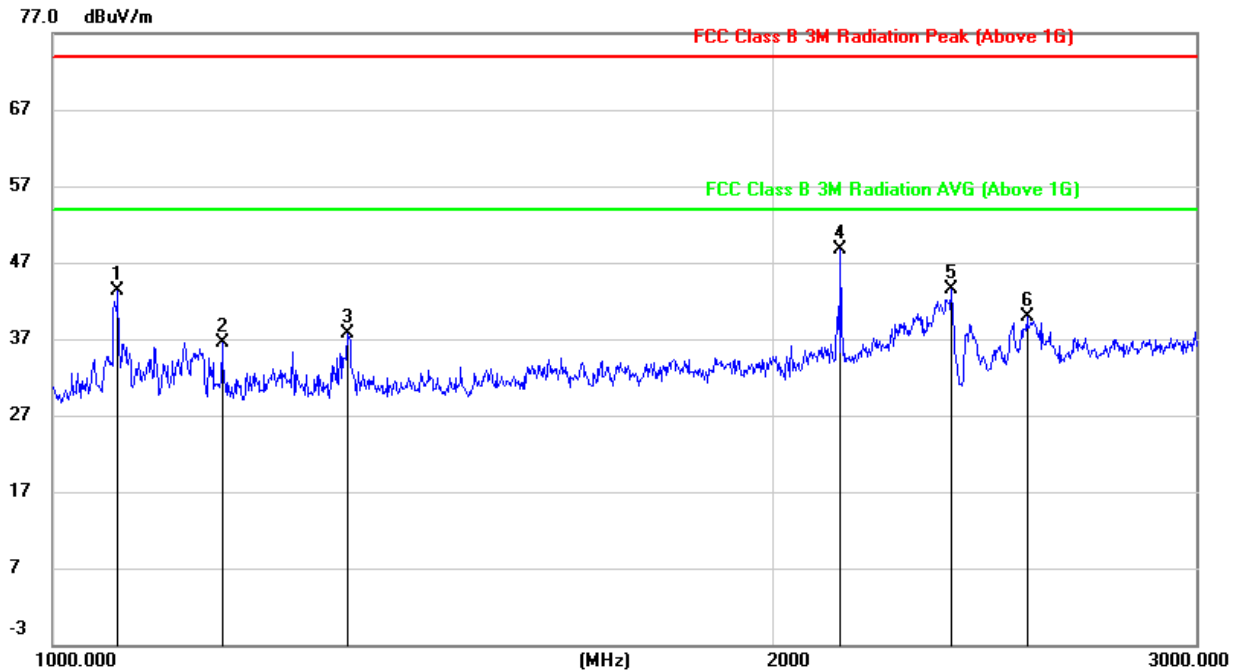


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1065.793	50.39	-13.21	37.18	74.00	-36.82	peak
2	1149.726	48.87	-12.67	36.20	74.00	-37.80	peak
3	1815.837	45.71	-9.58	36.13	74.00	-37.87	peak
4	2124.737	50.33	-8.47	41.86	74.00	-32.14	peak
5	2279.507	48.26	-7.61	40.65	74.00	-33.35	peak
6	2549.807	48.37	-6.37	42.00	74.00	-32.00	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

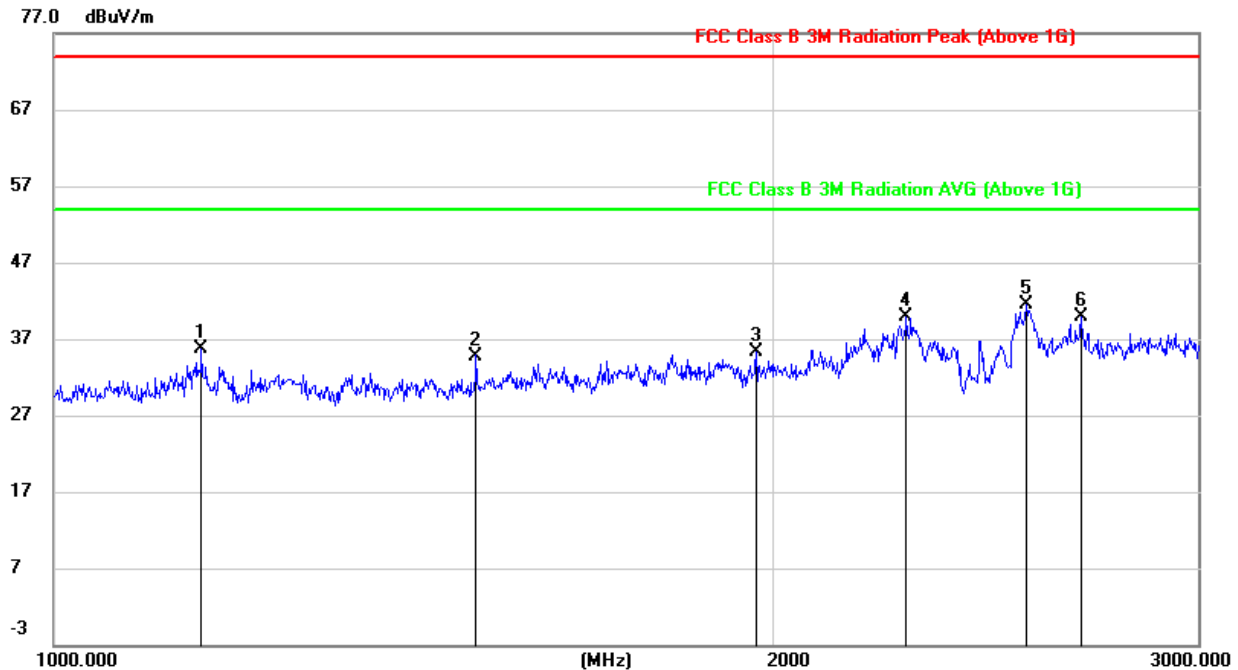


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1064.623	56.54	-13.21	43.33	74.00	-30.67	peak
2	1176.560	48.90	-12.42	36.48	74.00	-37.52	peak
3	1327.692	49.59	-11.86	37.73	74.00	-36.27	peak
4	2131.751	57.21	-8.42	48.79	74.00	-25.21	peak
5	2371.468	50.66	-7.14	43.52	74.00	-30.48	peak
6	2549.807	46.20	-6.37	39.83	74.00	-34.17	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

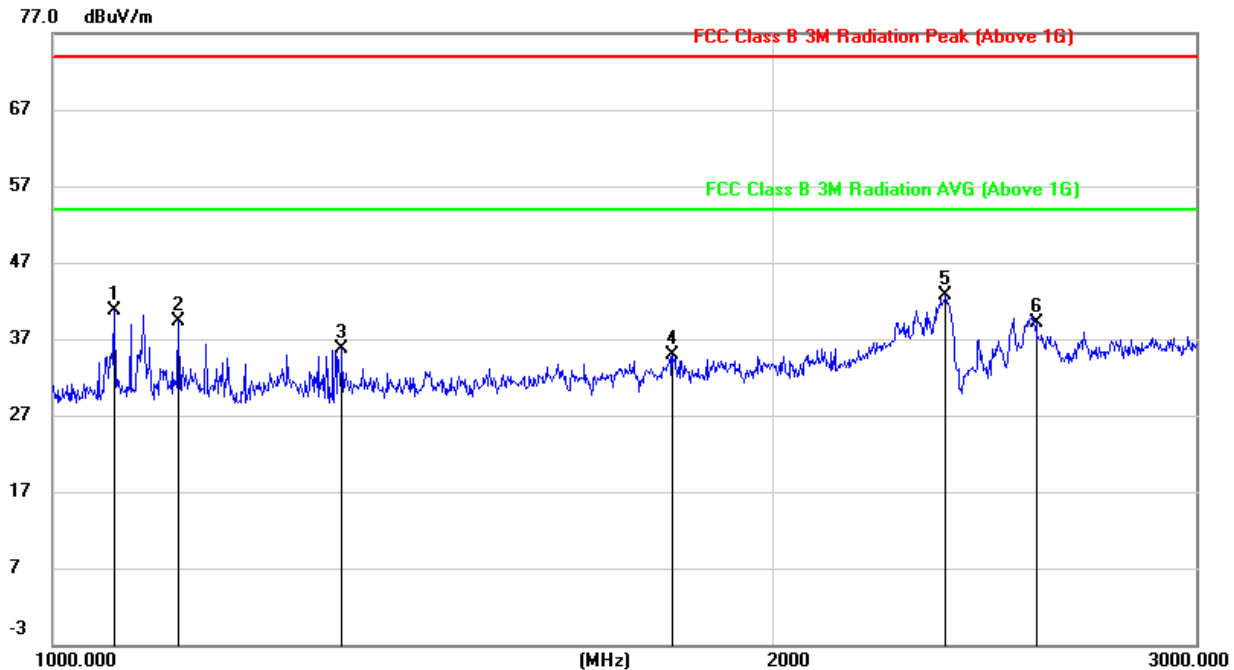


HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



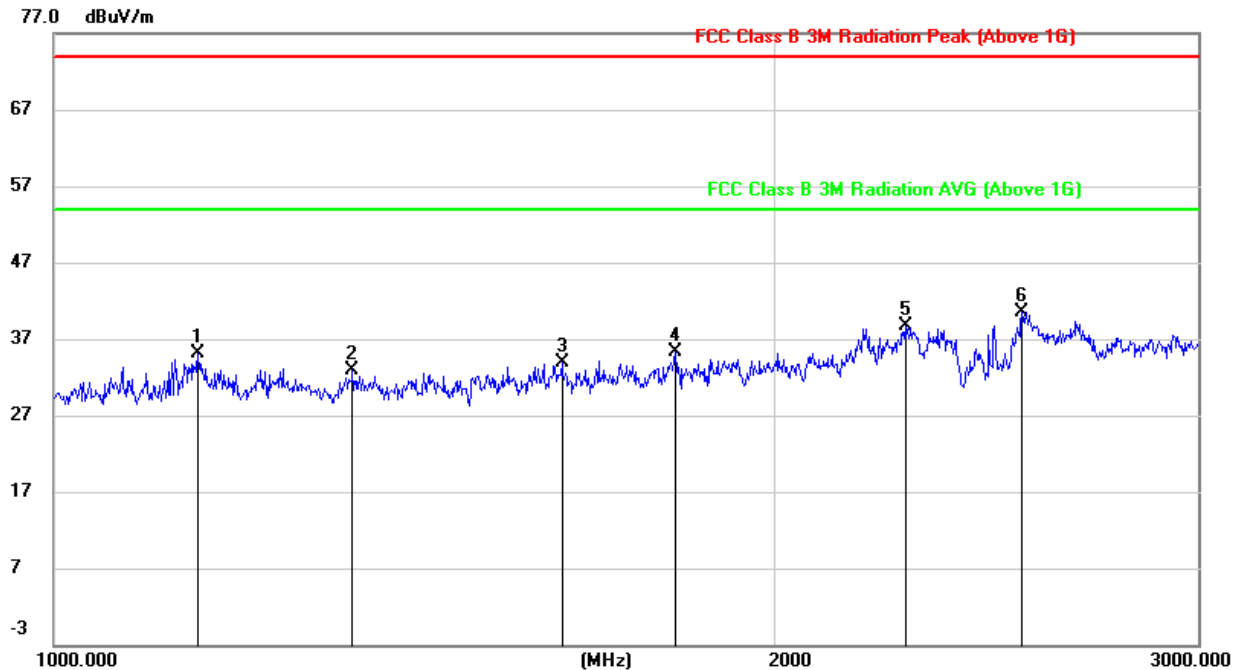
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1152.255	48.29	-12.66	35.63	74.00	-38.37	peak
2	1499.884	46.56	-11.76	34.80	74.00	-39.20	peak
3	1963.145	44.76	-9.40	35.36	74.00	-38.64	peak
4	2267.020	47.66	-7.68	39.98	74.00	-34.02	peak
5	2547.007	47.79	-6.36	41.43	74.00	-32.57	peak
6	2684.924	46.01	-6.07	39.94	74.00	-34.06	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

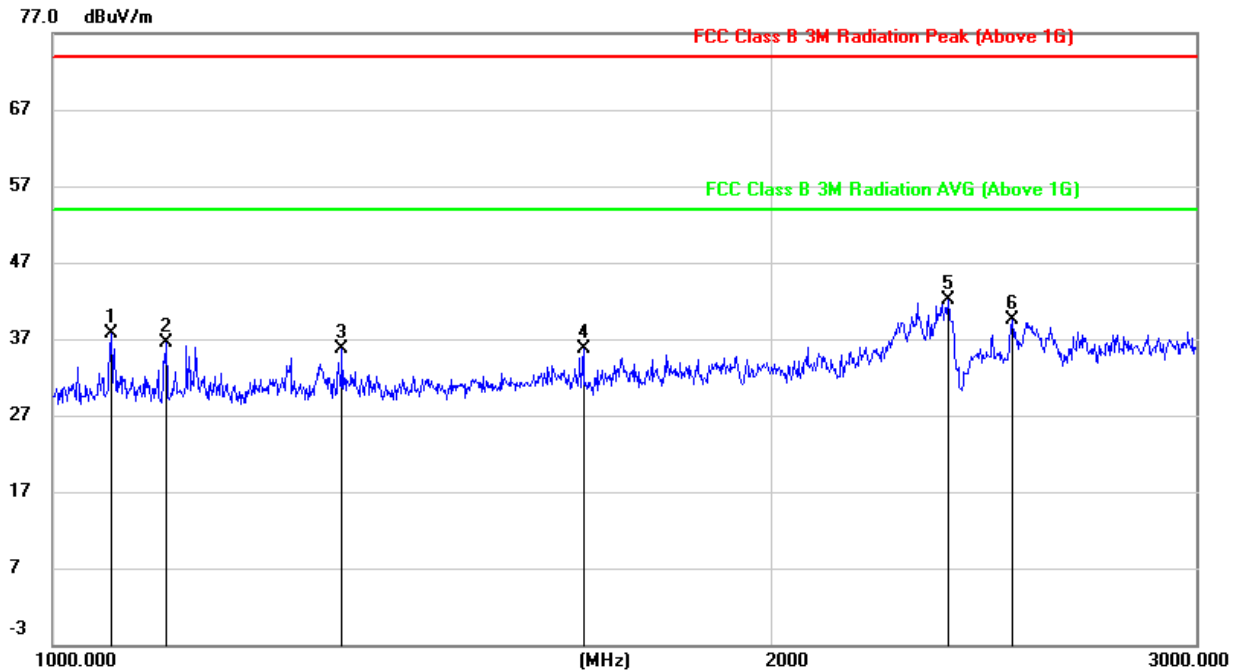
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1061.120	53.89	-13.23	40.66	74.00	-33.34	peak
2	1128.453	52.18	-12.87	39.31	74.00	-34.69	peak
3	1320.419	47.51	-11.86	35.65	74.00	-38.35	peak
4	1813.843	44.50	-9.58	34.92	74.00	-39.08	peak
5	2361.070	49.87	-7.19	42.68	74.00	-31.32	peak
6	2575.143	45.59	-6.48	39.11	74.00	-34.89	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1148.464	47.78	-12.68	35.10	74.00	-38.90	peak
2	1332.075	44.67	-11.86	32.81	74.00	-41.19	peak
3	1630.493	44.63	-10.75	33.88	74.00	-40.12	peak
4	1815.837	44.95	-9.58	35.37	74.00	-38.63	peak
5	2264.531	46.44	-7.69	38.75	74.00	-35.25	peak
6	2535.839	46.78	-6.31	40.47	74.00	-33.53	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

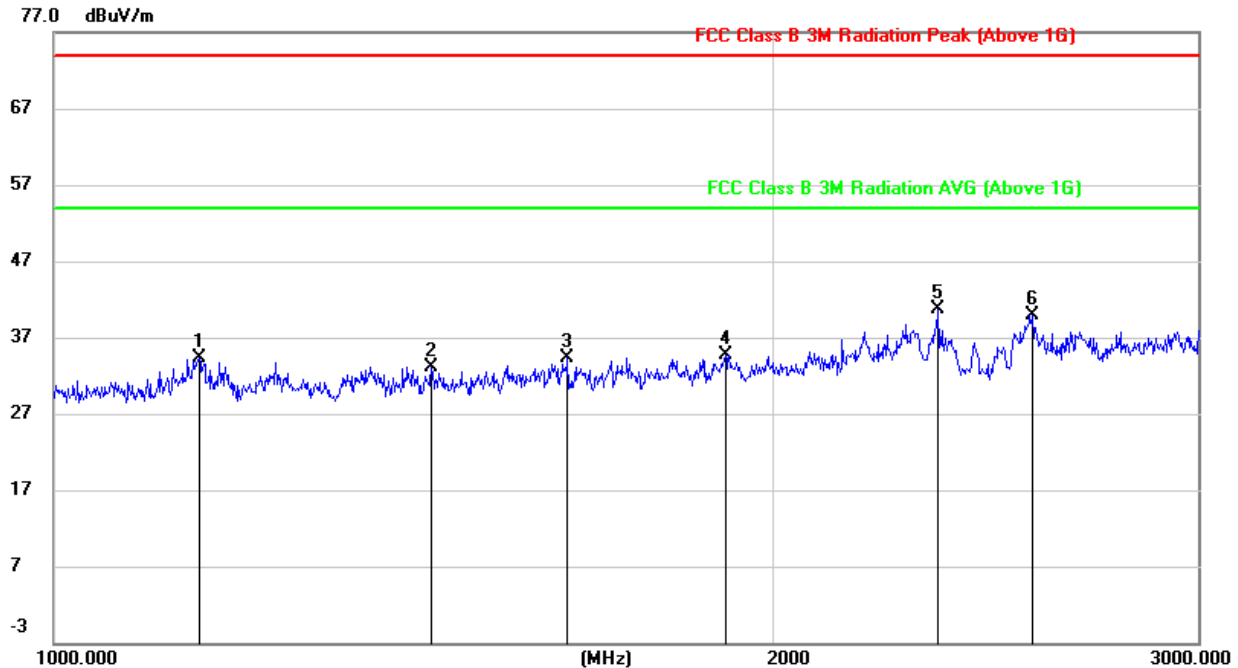
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1058.791	50.99	-13.23	37.76	74.00	-36.24	peak
2	1116.123	49.40	-12.99	36.41	74.00	-37.59	peak
3	1320.419	47.61	-11.86	35.75	74.00	-38.25	peak
4	1666.715	46.39	-10.68	35.71	74.00	-38.29	peak
5	2366.263	49.29	-7.16	42.13	74.00	-31.87	peak
6	2513.650	45.81	-6.22	39.59	74.00	-34.41	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



9.3.4. 802.11n HT40 MODE

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

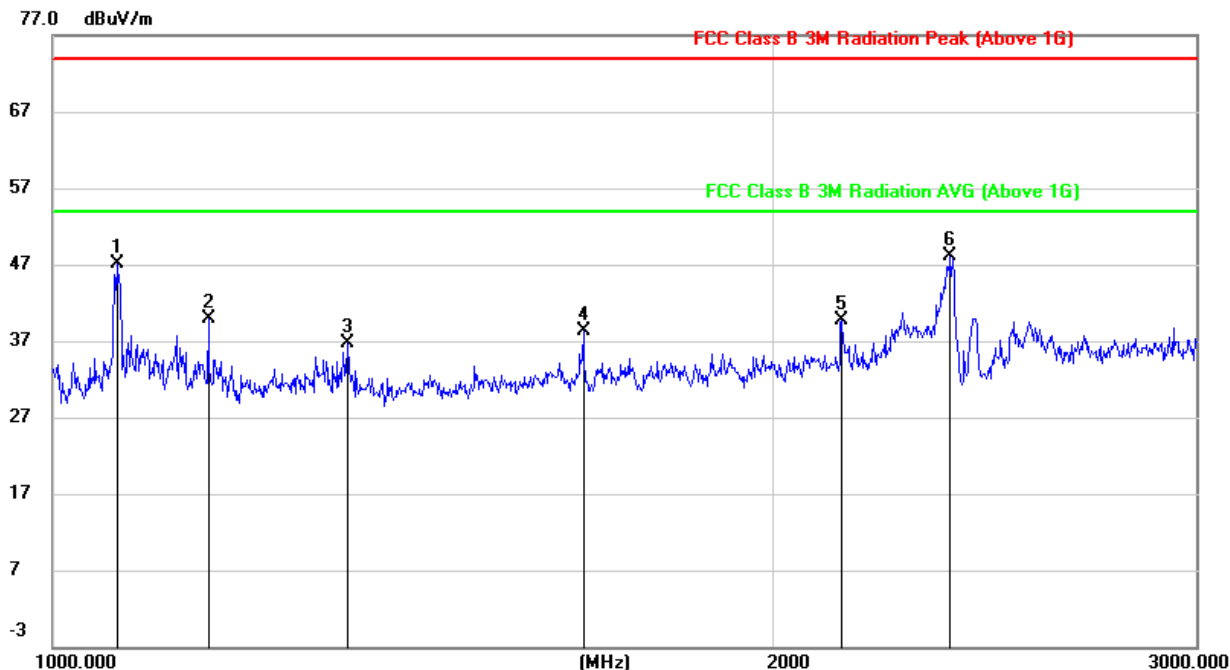


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1149.726	46.98	-12.67	34.31	74.00	-39.69	peak
2	1436.978	45.04	-11.85	33.19	74.00	-40.81	peak
3	1637.674	45.04	-10.74	34.30	74.00	-39.70	peak
4	1905.769	44.09	-9.36	34.73	74.00	-39.27	peak
5	2337.840	47.94	-7.29	40.65	74.00	-33.35	peak
6	2555.416	46.39	-6.39	40.00	74.00	-34.00	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

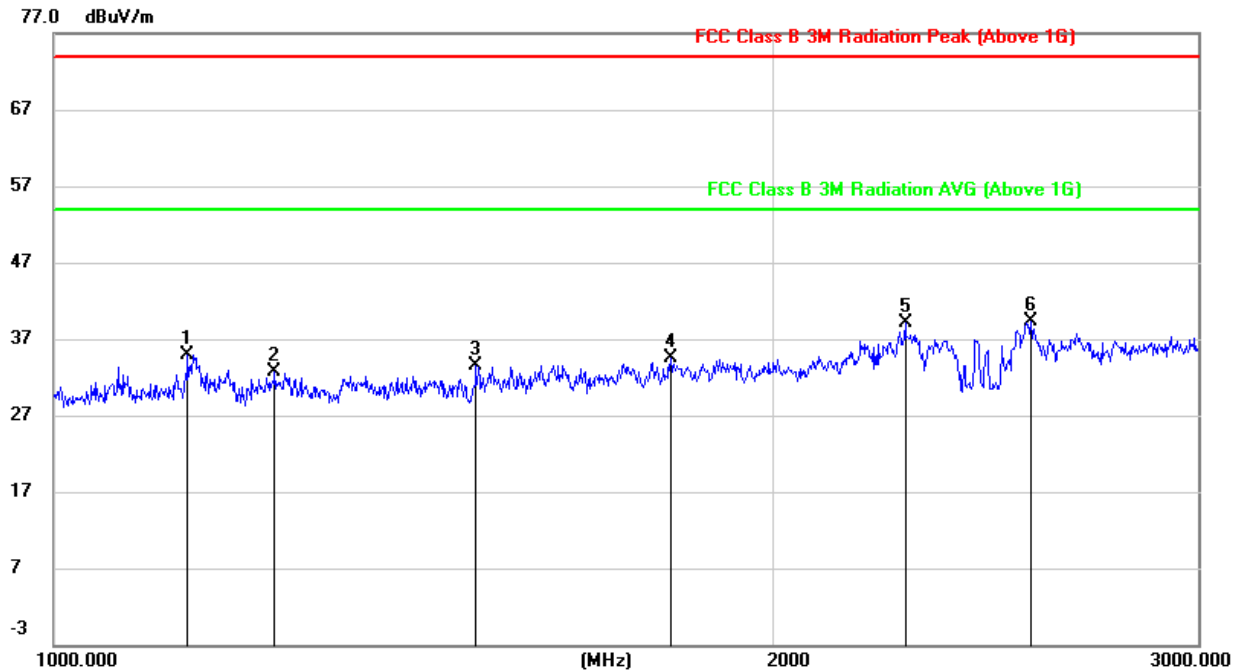


HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



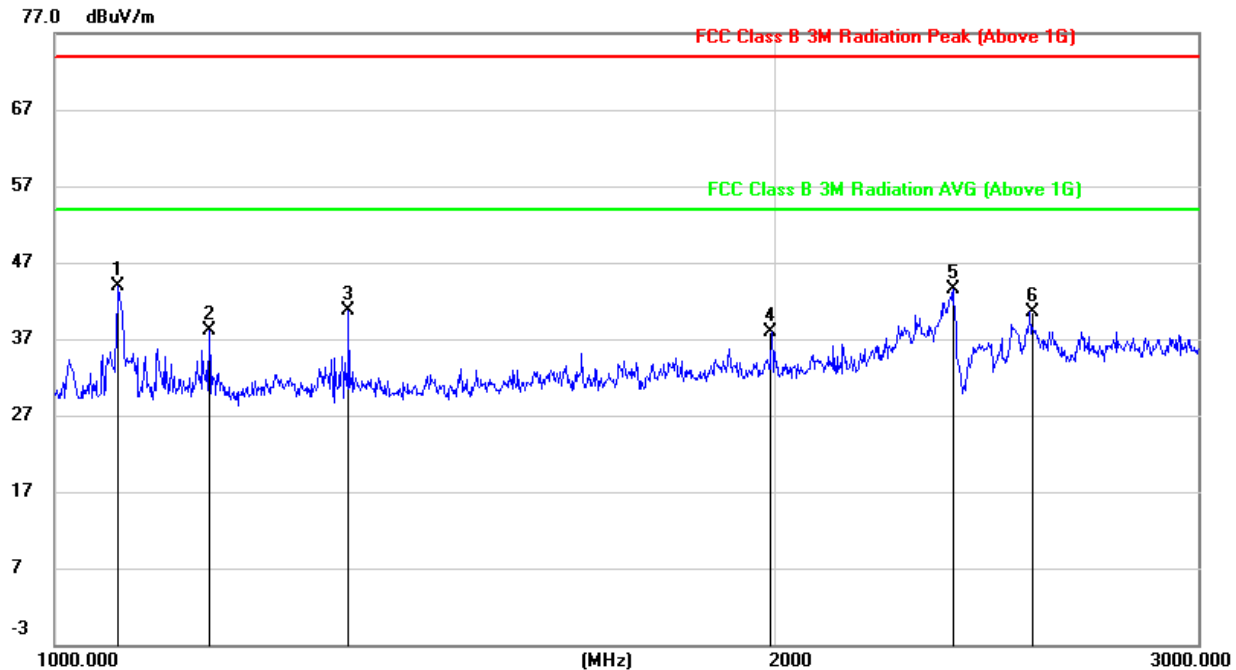
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1064.623	60.34	-13.21	47.13	74.00	-26.87	peak
2	1161.150	52.42	-12.57	39.85	74.00	-34.15	peak
3	1327.692	48.60	-11.86	36.74	74.00	-37.26	peak
4	1666.715	48.93	-10.68	38.25	74.00	-35.75	peak
5	2134.095	48.21	-8.42	39.79	74.00	-34.21	peak
6	2368.864	55.29	-7.16	48.13	74.00	-25.87	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

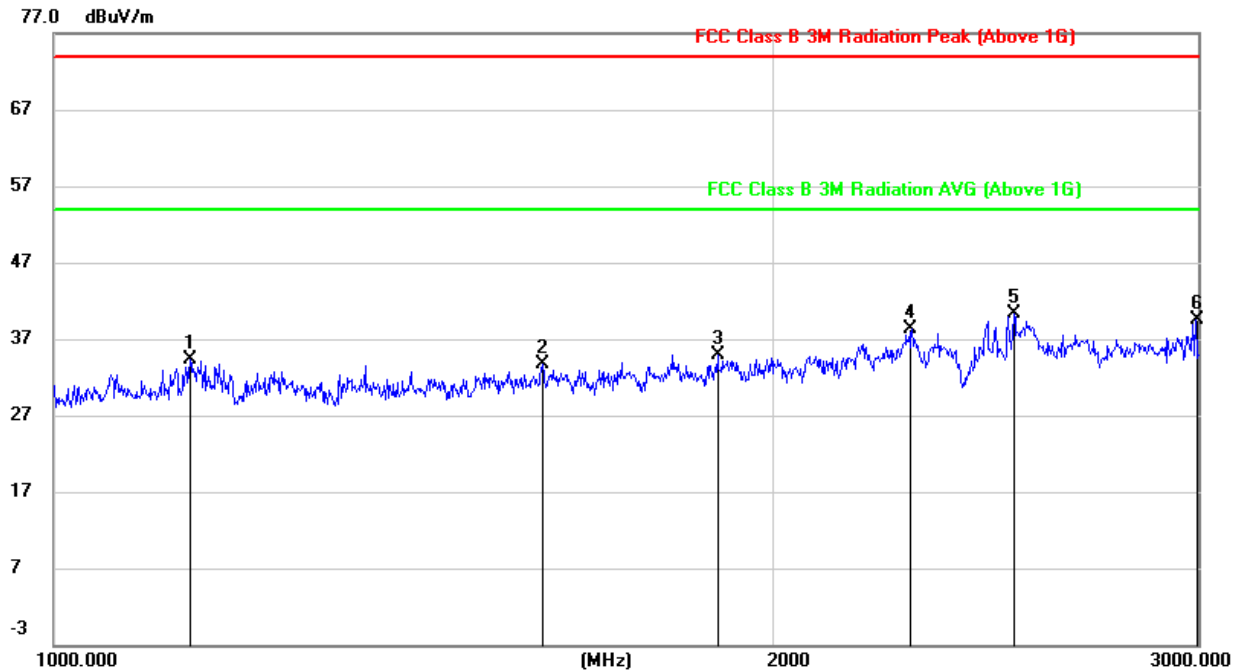
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1137.164	47.72	-12.78	34.94	74.00	-39.06	peak
2	1237.546	44.81	-12.06	32.75	74.00	-41.25	peak
3	1499.884	45.26	-11.76	33.50	74.00	-40.50	peak
4	1807.875	44.06	-9.60	34.46	74.00	-39.54	peak
5	2264.531	46.81	-7.69	39.12	74.00	-34.88	peak
6	2555.416	45.76	-6.39	39.37	74.00	-34.63	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1062.287	57.15	-13.23	43.92	74.00	-30.08	peak
2	1159.876	50.69	-12.58	38.11	74.00	-35.89	peak
3	1326.234	52.61	-11.86	40.75	74.00	-33.25	peak
4	1991.384	47.39	-9.42	37.97	74.00	-36.03	peak
5	2371.468	50.70	-7.14	43.56	74.00	-30.44	peak
6	2555.416	46.80	-6.39	40.41	74.00	-33.59	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

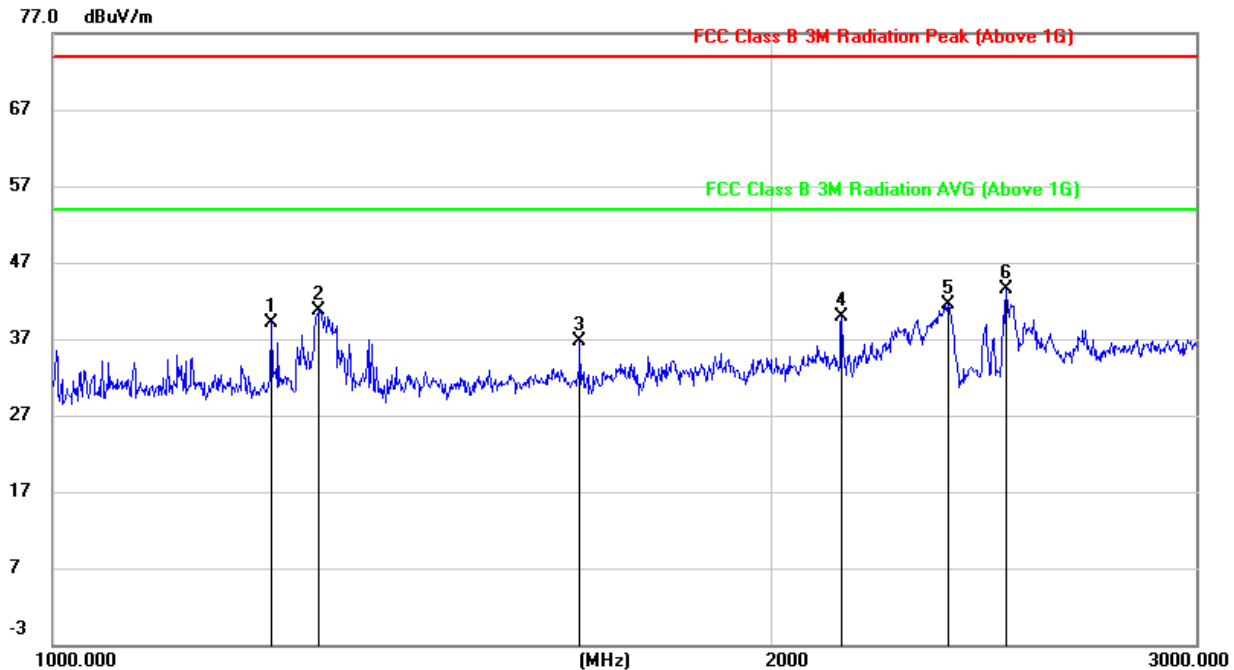
**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1139.666	46.98	-12.76	34.22	74.00	-39.78	peak
2	1598.567	44.58	-10.85	33.73	74.00	-40.27	peak
3	1891.169	44.32	-9.37	34.95	74.00	-39.05	peak
4	2279.507	45.95	-7.61	38.34	74.00	-35.66	peak
5	2513.650	46.45	-6.22	40.23	74.00	-33.77	peak
6	2996.706	43.74	-4.33	39.41	74.00	-34.59	peak

- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	1233.475	51.12	-12.08	39.04	74.00	-34.96	peak
2	1293.142	52.56	-11.87	40.69	74.00	-33.31	peak
3	1659.407	47.42	-10.69	36.73	74.00	-37.27	peak
4	2134.095	48.36	-8.42	39.94	74.00	-34.06	peak
5	2366.263	48.68	-7.16	41.52	74.00	-32.48	peak
6	2499.880	49.59	-6.17	43.42	74.00	-30.58	peak

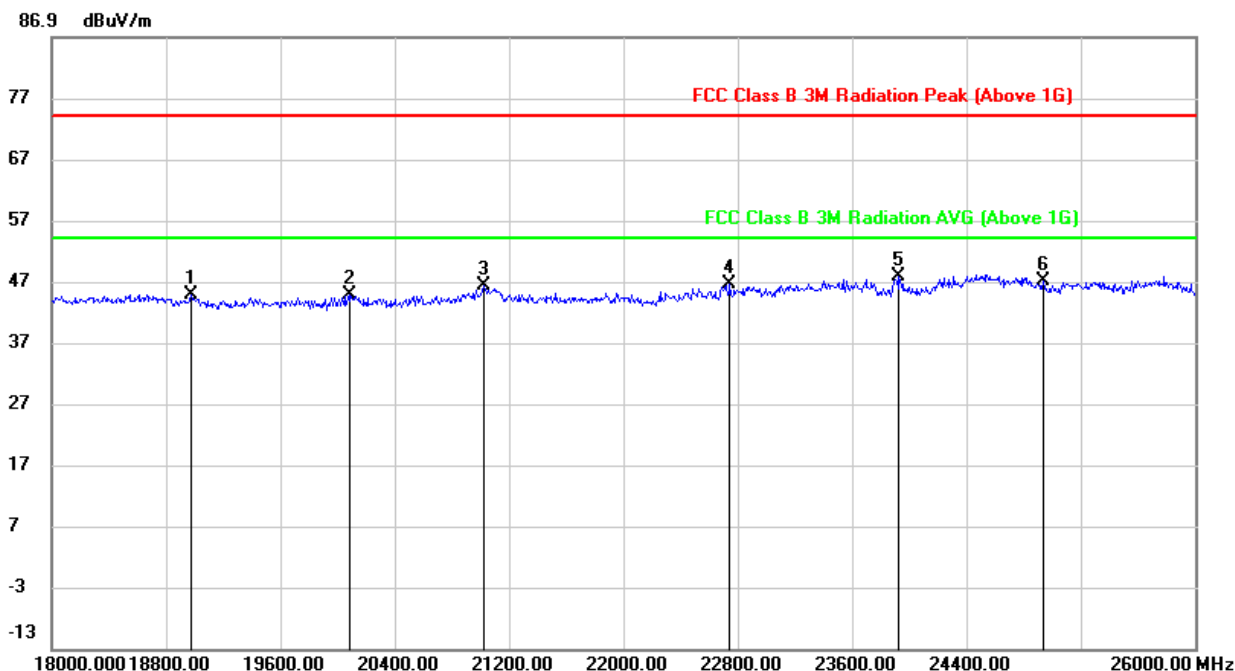
- Note: 1. Peak Result = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. The Band Reject filter loss factor already add into the correct factor.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



9.4. SPURIOUS EMISSIONS (18~26GHz)

9.4.1. 802.11b MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

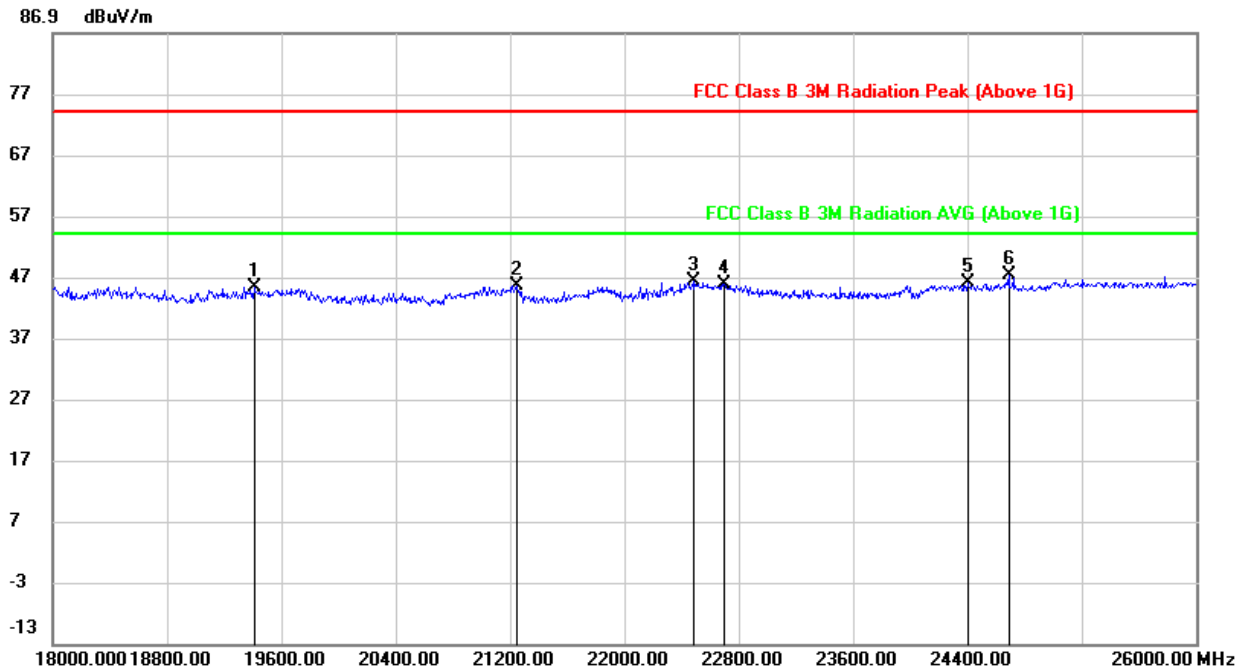


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	18976.000	49.66	-4.89	44.77	74.00	-29.23	peak
2	20080.000	49.23	-4.53	44.70	74.00	-29.30	peak
3	21024.000	51.62	-5.30	46.32	74.00	-27.68	peak
4	22744.000	52.18	-5.74	46.44	74.00	-27.56	peak
5	23928.000	52.03	-4.19	47.84	74.00	-26.16	peak
6	24936.000	48.37	-1.30	47.07	74.00	-26.93	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.



SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	19408.000	50.23	-4.89	45.34	74.00	-28.66	peak
2	21248.000	50.98	-5.51	45.47	74.00	-28.53	peak
3	22488.000	52.10	-5.81	46.29	74.00	-27.71	peak
4	22696.000	51.63	-5.75	45.88	74.00	-28.12	peak
5	24400.000	49.14	-2.99	46.15	74.00	-27.85	peak
6	24688.000	49.39	-2.11	47.28	74.00	-26.72	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

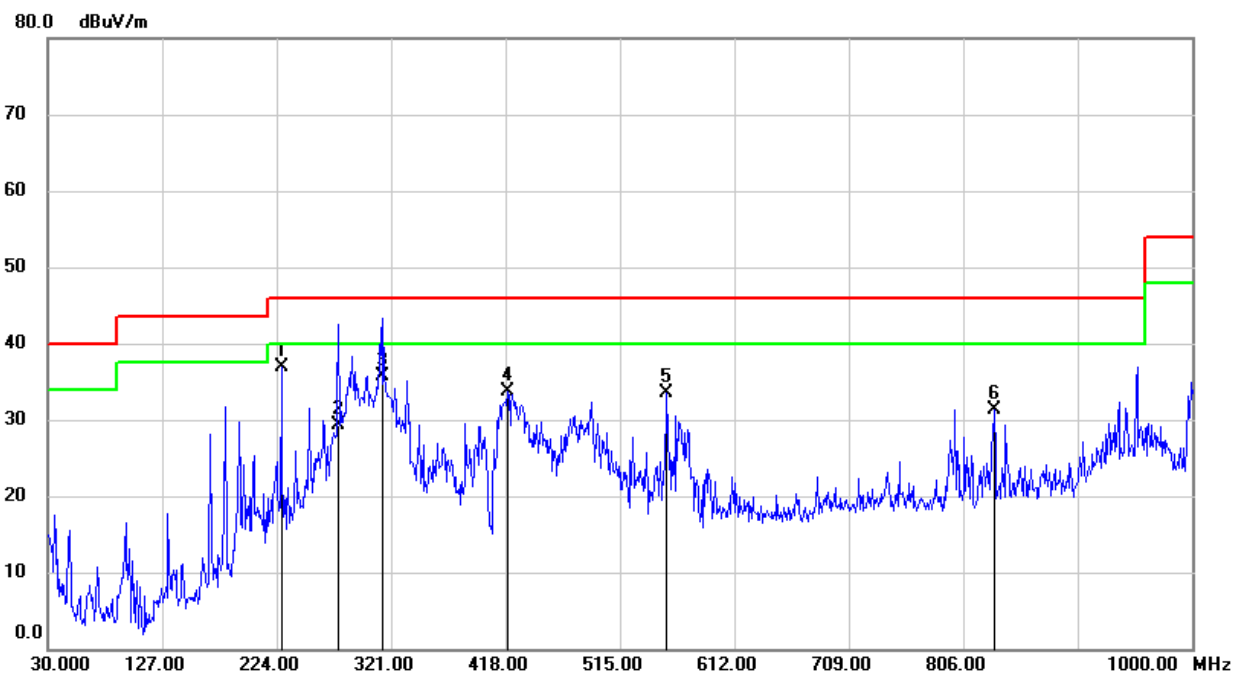
Note: All test mode has been tested, only the worst data record in the report.



9.5. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

9.5.1. 802.11b MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, HORIZONTAL)

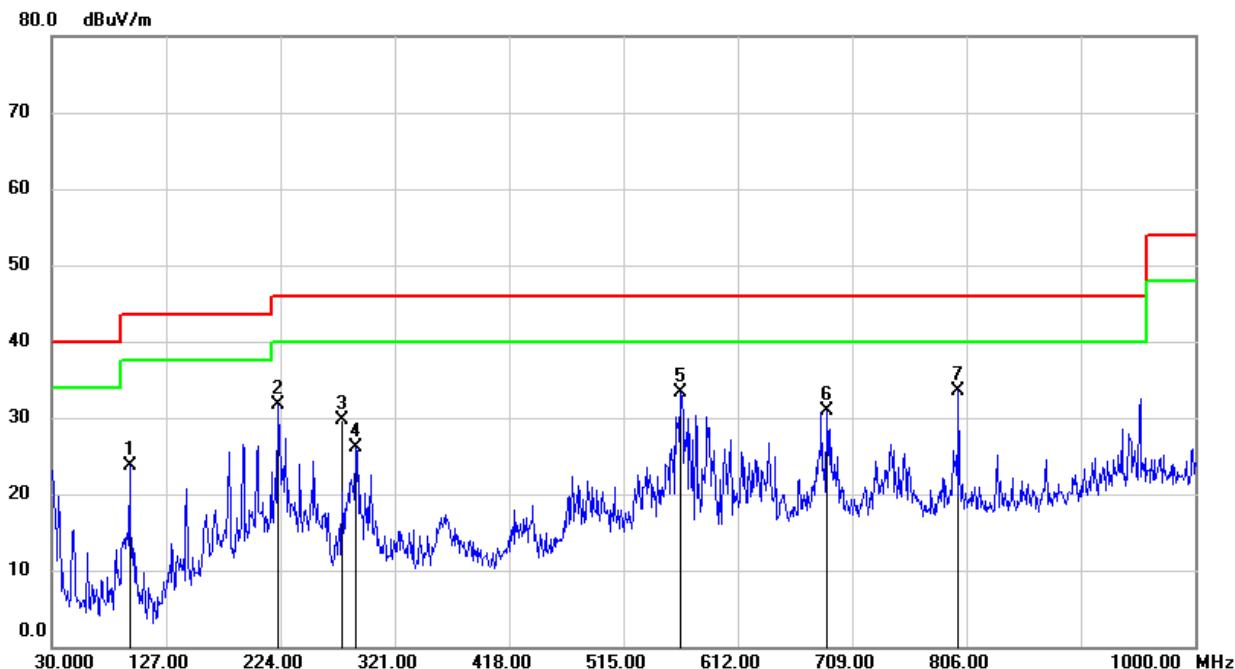


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	227.8800	54.44	-17.45	36.99	46.00	-9.01	QP
2	276.3800	44.38	-15.02	29.36	46.00	-16.64	QP
3	314.2100	49.43	-13.72	35.71	46.00	-10.29	QP
4	419.9400	45.63	-11.97	33.66	46.00	-12.34	QP
5	554.7700	42.91	-9.37	33.54	46.00	-12.46	QP
6	832.1900	36.18	-4.83	31.35	46.00	-14.65	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.



SPURIOUS EMISSIONS (HIGH CHANNEL, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.9600	45.30	-21.51	23.79	43.50	-19.71	QP
2	222.0600	48.82	-17.09	31.73	46.00	-14.27	QP
3	276.3320	44.71	-15.03	29.68	46.00	-16.32	QP
4	288.0200	40.53	-14.50	26.03	46.00	-19.97	QP
5	563.5000	42.45	-9.20	33.25	46.00	-12.75	QP
6	687.6599	37.82	-6.90	30.92	46.00	-15.08	QP
7	799.2100	38.81	-5.26	33.55	46.00	-12.45	QP

Note: 1. Result Level = Read Level + Correct Factor.

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

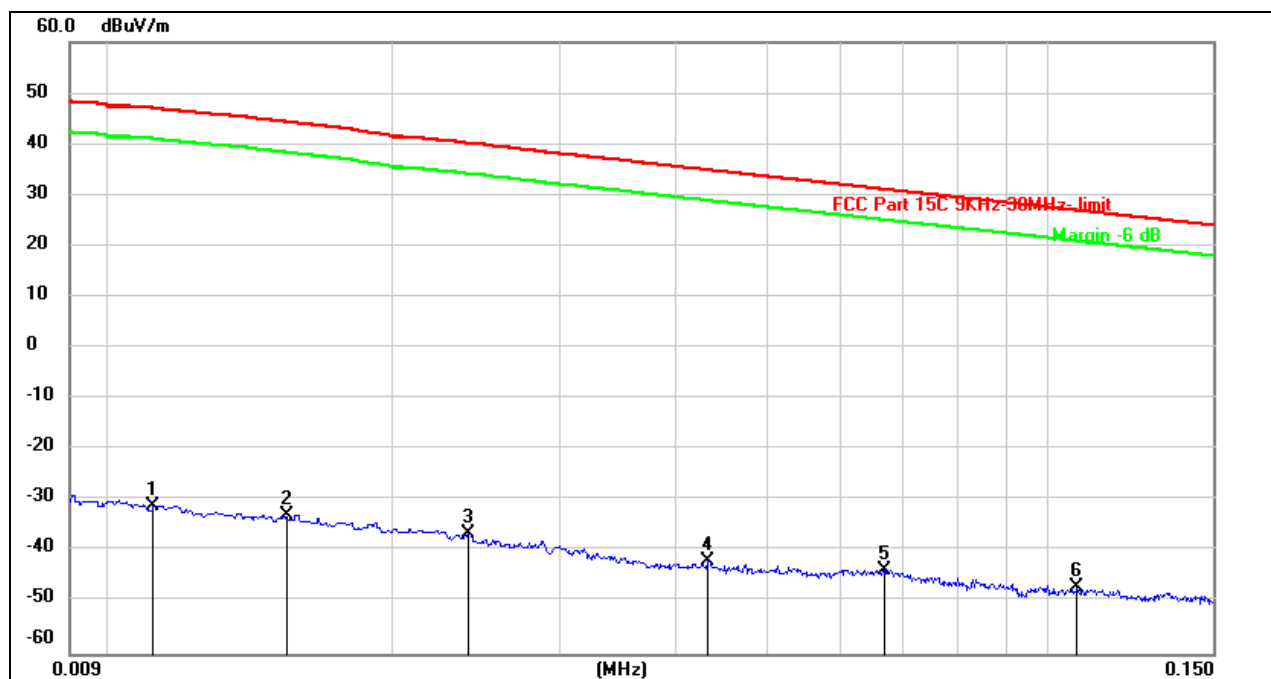
Note: All test mode has been tested, only the worst data record in the report.

9.6. SPURIOUS EMISSIONS BELOW 30M

9.6.1. 802. 11b MODE

SPURIOUS EMISSIONS (HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9kHz~ 150kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.0111	70.45	-101.39	-30.94	46.94	-77.88	peak
2	0.0154	68.44	-101.37	-32.93	44.35	-77.28	peak
3	0.0240	64.82	-101.36	-36.54	40.17	-76.71	peak
4	0.0432	59.57	-101.45	-41.88	34.94	-76.82	peak
5	0.0666	57.93	-101.55	-43.62	31.16	-74.78	peak
6	0.1073	54.80	-101.77	-46.97	27.00	-73.97	peak

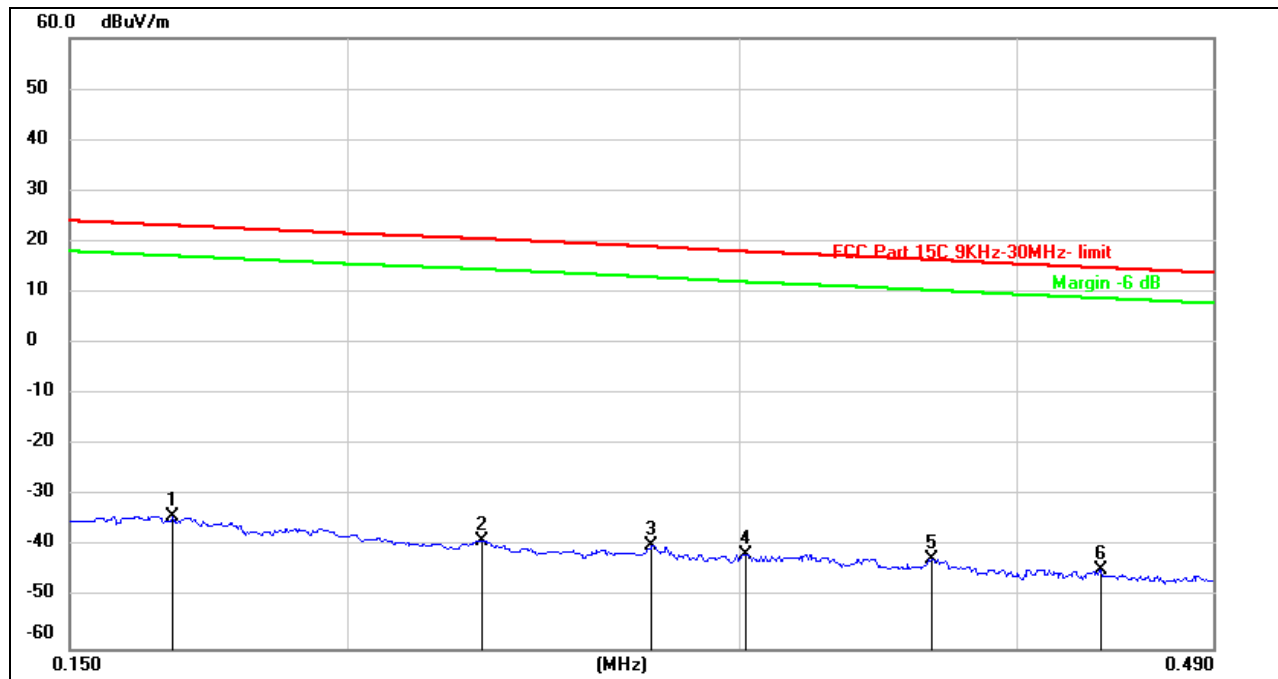
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

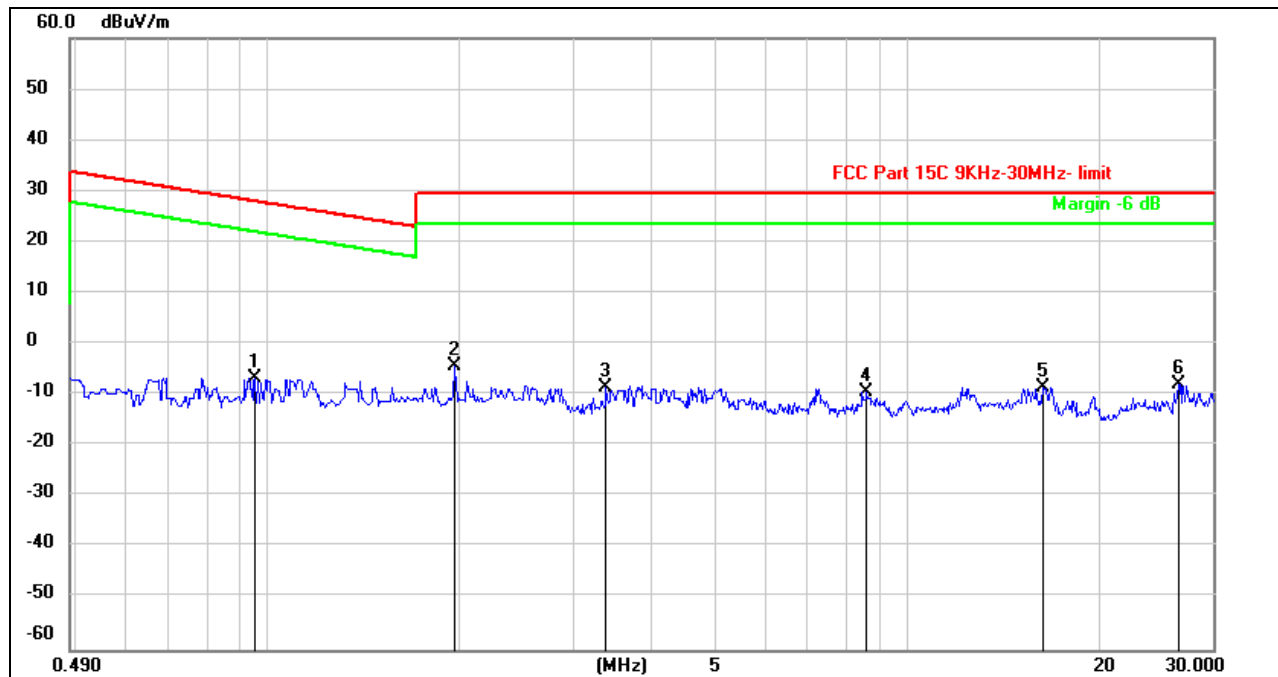


150kHz ~ 0.49MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1669	67.65	-101.66	-34.01	23.16	-57.17	peak
2	0.2298	63.05	-101.77	-38.72	20.53	-59.25	peak
3	0.2741	62.07	-101.83	-39.76	18.97	-58.73	peak
4	0.3019	60.43	-101.85	-41.42	18.01	-59.43	peak
5	0.3662	59.58	-101.93	-42.35	16.40	-58.75	peak
6	0.4364	57.36	-101.99	-44.63	14.85	-59.48	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

0.49MHz ~ 30MHz

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.9543	55.54	-62.24	-6.70	28.02	-34.72	peak
2	1.9521	57.61	-61.84	-4.23	29.54	-33.77	peak
3	3.3820	52.95	-61.48	-8.53	29.54	-38.07	peak
4	8.6348	51.60	-60.99	-9.39	29.54	-38.93	peak
5	16.2774	52.41	-60.97	-8.56	29.54	-38.10	peak
6	26.5472	52.23	-60.31	-8.08	29.54	-37.62	peak

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.

3. All 3 polarizations(Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.

Note: All test mode has been tested, only the worst data record in the report

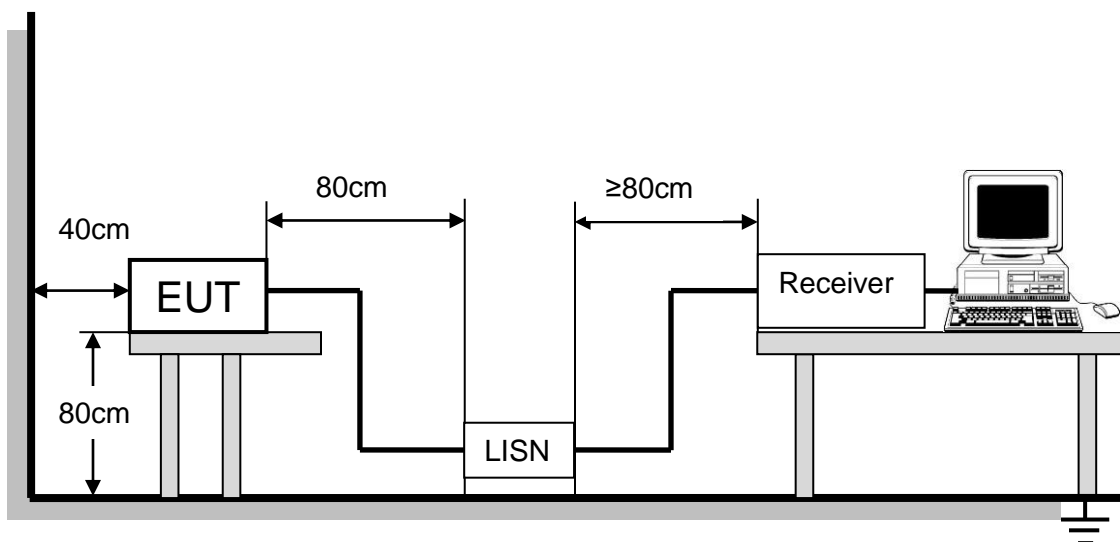
10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a)

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE



The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 7 and 13 of ANSI C63.10-2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST ENVIRONMENT

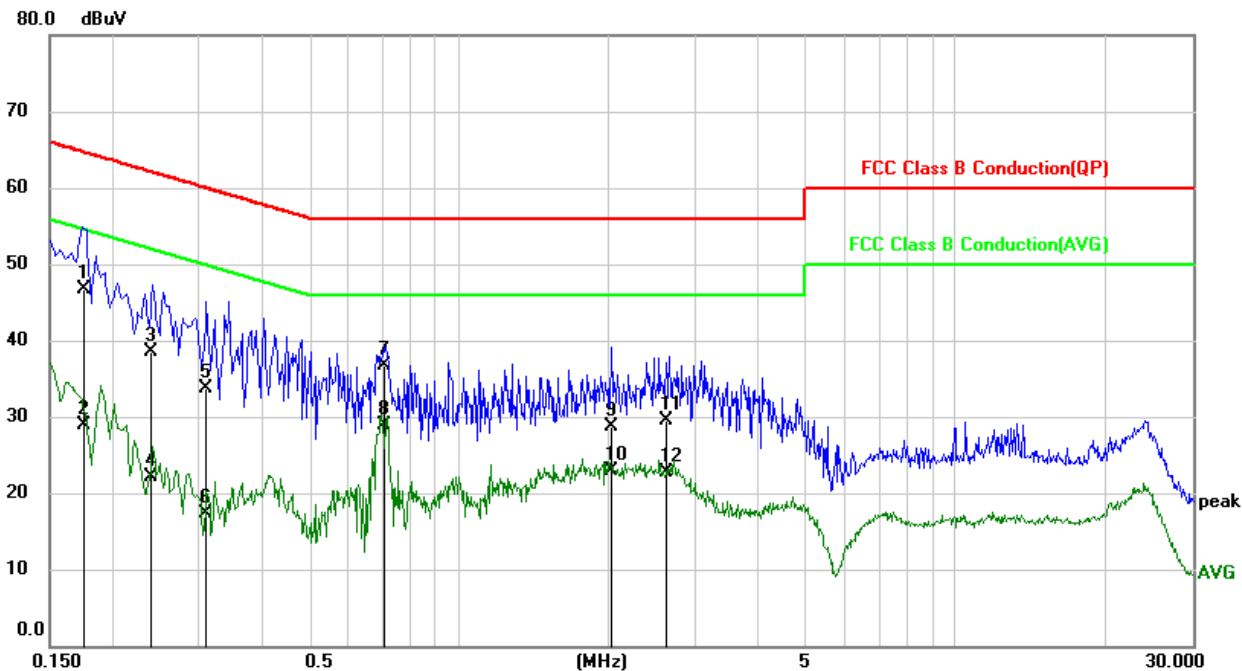
Temperature	22°C	Relative Humidity	58%
Atmosphere Pressure	101kPa	Test Voltage	AC 120V, 60HZ



TEST RESULTS

10.1. 802.11b MODE

LINE N RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)



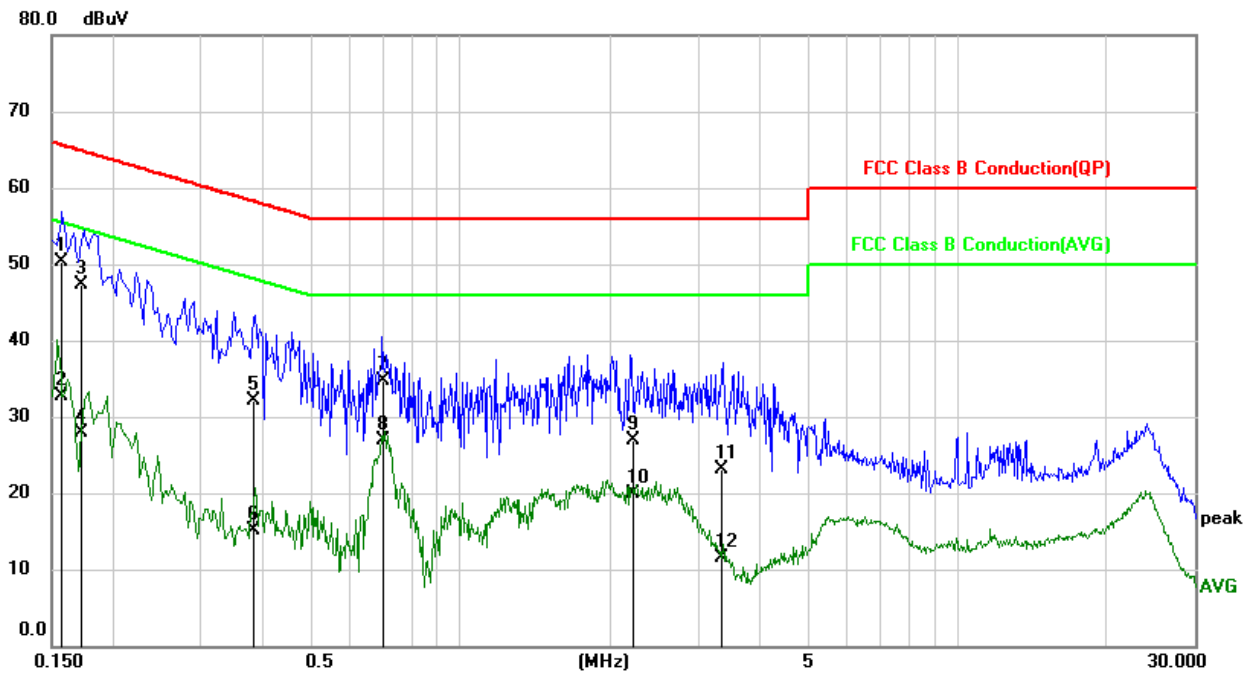
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1759	37.19	9.60	46.79	64.68	-17.89	QP
2	0.1759	19.29	9.60	28.89	54.68	-25.79	AVG
3	0.2389	28.83	9.60	38.43	62.13	-23.70	QP
4	0.2389	12.43	9.60	22.03	52.13	-30.10	AVG
5	0.3090	24.17	9.60	33.77	60.00	-26.23	QP
6	0.3090	7.66	9.60	17.26	50.00	-32.74	AVG
7	0.7025	27.16	9.60	36.76	56.00	-19.24	QP
8	0.7025	19.27	9.60	28.87	46.00	-17.13	AVG
9	2.0291	19.05	9.63	28.68	56.00	-27.32	QP
10	2.0291	13.23	9.63	22.86	46.00	-23.14	AVG
11	2.6237	19.92	9.64	29.56	56.00	-26.44	QP
12	2.6237	12.98	9.64	22.62	46.00	-23.38	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

**LINE L RESULTS (HIGH CHANNEL, WORST-CASE CONFIGURATION)**

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1566	40.74	9.61	50.35	65.64	-15.29	QP
2	0.1566	23.06	9.61	32.67	55.64	-22.97	AVG
3	0.1720	37.75	9.61	47.36	64.86	-17.50	QP
4	0.1720	18.39	9.61	28.00	54.86	-26.86	AVG
5	0.3820	22.45	9.60	32.05	58.24	-26.19	QP
6	0.3820	5.56	9.60	15.16	48.24	-33.08	AVG
7	0.7002	25.14	9.60	34.74	56.00	-21.26	QP
8	0.7002	17.26	9.60	26.86	46.00	-19.14	AVG
9	2.2323	17.22	9.62	26.84	56.00	-29.16	QP
10	2.2323	10.23	9.62	19.85	46.00	-26.15	AVG
11	3.3457	13.40	9.65	23.05	56.00	-32.95	QP
12	3.3457	1.94	9.65	11.59	46.00	-34.41	AVG

Note: 1. Result = Reading +Correct Factor.

2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).

4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All test mode has been tested, only the worst data record in the report.



11. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies

END OF REPORT