

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 ISSUE 2

TEST REPORT

For

Kasa Smart Wi-Fi Plug Mini

MODEL NUMBER: EP10 HVIN: EP10

FCC ID: 2AXJ4EP10 IC: 26583-EP10

REPORT NUMBER: 4789626792.1-2

ISSUE DATE: September 24, 2020

Prepared for

TP-Link Corporation Limited
Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha
Tsui, Kowloon, Hong Kong

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, People's Republic of China

> Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com



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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	09/24/2020	Initial Issue	





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	Summary of Test Results					
Clause	Test Items	FCC/ISED 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			

Note:

^{1.} This test report is only published to and used by the applicant, and it is not for evidence purpose in China.

^{2.} The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART C >< ISED RSS-247 > when <Accuracy Method> decision rule is applied.



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum

Road, Tsim Sha Tsui, Kowloon, Hong Kong

Manufacturer Information

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum

Road, Tsim Sha Tsui, Kowloon, Hong Kong

EUT Information

EUT Name: Kasa Smart Wi-Fi Plug Mini

Model: EP10
Brand Name: tp-link
Sample Status: Normal
Sample ID: 3307872
Sample Received Date: July 29, 2020

Date of Tested: July 30~August 6, 2020

APPLICABLE STANDARDS				
STANDARD	TEST RESULTS			
CFR 47 FCC PART 15 SUBPART C	PASS			
ISED RSS-247 Issue 2	PASS			
ISED RSS-GEN Issue 5	PASS			

ISED RSS-GEI	N Issue 5	PASS		
Prepared By:	Checked E	Checked By:		
kelo. Thous.	S hemm	Mes		
Kebo Zhang Project Engineer	Shawn Wen Laboratory L			
Approved By:				
Leghenbur				
Stephen Guo Laboratory Manager				



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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 558074 D01 15.247 Meas Guidance v05r02, 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, ISED RSS-247 Issue 2 and ISED RSS-GEN Issue 5.

3. FACILITIES AND ACCREDITATION

	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.
	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 Delcaration of Conformity (DoC) and Certification
	rules
A	ISED(Company No.: 21320)
Accreditation	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.
Certificate	has been registered and fully described in a report filed with ISED.
	The Company Number is 21320.
	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

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

Note 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.

Note 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.



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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. MEASUREMENT UNCERTAINTY

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

Test Item	Uncertainty
AC Power Port Conduction emission	3.62 dB
Radiated Emission (Included Fundamental Emission) (9 kHz ~ 30 MHz)	2.2 dB
Radiated Emission (Included Fundamental Emission) (30 MHz ~ 1 GHz)	4.00 dB
Radiated Emission	5.78 dB (1 GHz ~ 18 GHz)
(Included Fundamental Emission) (1 GHz to 26 GHz)	5.23 dB (18 GHz ~ 26 GHz)
DTS Bandwidth and 99% Occupied Bandwidth	±0.0196 %
Conducted Output Power	±0.686 dB
Conducted Power Spectral Density	±0.743 dB
Conducted Band Edge Measurements	±1.328 dB
Conducted Spurious Emissions	±0.746 dB (9 kHz ~ 1 GHz) ±1.328 dB (1 GHz ~ 26 GHz)

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

Equipment	Kasa Smart Wi-Fi Plug Mini		
Model Name	EP10		
Radio Technology	IEEE802.11b/g/n HT20		
Operation frequency	IEEE 802.11b: 2412 MHz ~ 2462 MHz IEEE 802.11g: 2412 MHz ~ 2462 MHz IEEE 802.11n HT20: 2412 MHz ~ 2462 MHz		
Modulation	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Software version	1.0.1_Build_200819_Rel.185944		
Firmware version	2084500308 \ 2084500309		
Rated Input	AC120 V,60 Hz		

5.2. MAXIMUM OUTPUT POWER

Number of Transmit Chains (NTX)	IEE Std. 802.11	Frequency (MHz)	Channel Number	Max AV Conducted Power (dBm)
1	IEEE 802.11b	2412-2462	1-11[11]	19.76
1	IEEE 802.11g	2412-2462	1-11[11]	19.63
1	IEEE 802.11nHT20	2412-2462	1-11[11]	19.73

5.3. CHANNEL LIST

	Channel List for IEEE 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	/	/

5.4. TEST CHANNEL CONFIGURATION

Test Mode	Test Channel	Frequency (MHz)
802.11b	CH 1, CH2, CH 6, CH10, CH 11	2412, 2417, 2437, 2457, 2462
802.11g	CH 1, CH2, CH 6, CH10, CH 11	2412, 2417, 2437, 2457, 2462
802.11n HT20	CH 1, CH2, CH 6, CH10, CH 11	2412, 2417, 2437, 2457, 2462



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5.5. THE WORSE CASE POWER SETTING PARAMETER

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band											
Test Softv	vare		UI_r				_mptool				
	Transmit				Test	Softwar	e Settin	g Valu	ie		
Modulation Mode	Modulation Antenna					NCB: 40MHz					
Wiode	Number	CH1	CH2	CH6	CH10	CH11	CH3	CH4	CH7	CH8	CH11
802.11b	1	109	109	109	109	109					
802.11g	1	108	114	125	120	104	NA				
802.11n HT20	1	103	117	126	117	100					

5.6. THE WORSE CASE CONFIGURATIONS

Worst-case data rates as provided by the client were:

802.11b mode: 1 Mbps 802.11b mode: 6 Mbps 802.11n HT20 mode: MCS0

5.7. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna	Frequency (MHz)	Antenna Type	MAX Antenna Gain (dBi)
1	2412-2462	IFA Antenna	0.93

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

Note: The value of the antenna gain was declared by customer.



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5.8. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Item	Equipment	Brand Name	Model Name	Remarks
1	Laptop	ThinkPad	X230i	/
2	USB TO UART	/	/	/

I/O CABLES

Item	Port	Connector Type	Cable Type	Cable Length(m)	Remarks
1	USB	/	/	1	/

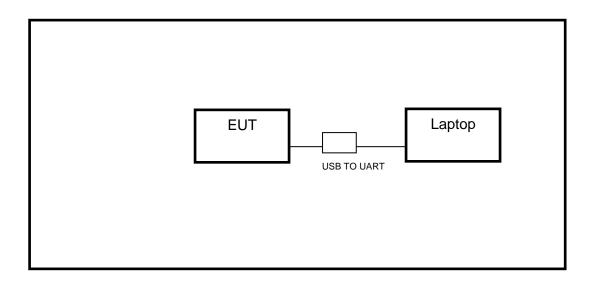
ACCESSORIES

Iter	n Accessory	Brand Name	Model Name	Description
/	/	/	/	/

TEST SETUP

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

SETUP DIAGRAM FOR TESTS





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6. MEASURING INSTRUMENT AND SOFTWARE USED

	AC Power Line Conducted Emissions (Shielding Room B)							
	Instrument							
Used	Equipment	Manufacturer	Mode	Model No.		ıl No.	Last Cal.	Next Cal.
V	EMI Test Receiver	R&S	ES	R3	101	961	Dec.05,2019	Dec.05,2020
V	Two-Line V- Network	R&S	EN\	/216	101	983	Dec.05,2019	Dec.05,2020
V	Artificial Mains Networks	Schwarzbeck	NSLK	(8126	8126	6465	Dec.05,2019	Dec.05,2020
			Sof	tware				
Used		Description	1		Manuf	acturer	Name	Version
V	Test Softwa	re for Conduct			Fa	rad	EZ-EMC	Ver. UL-3A1
				Emissions mber C)				
			Inst	rument				
Used	Equipment	Manufacturer	Mode	Seria	ıl No.	Last Cal.	Next Cal.	
V	MXE EMI Receiver	KESIGHT	N9038A		MY564	100036	Dec.06,2019	Dec.05,2020
V	Hybrid Log Periodic Antenna	TDK	HLP-	HLP-3003C		960	Sep.17,2018	Sep.17,2021
V	Preamplifier	HP	844	47D	2944A	.09099	Dec.05,2019	Dec.05,2020
V	EMI Measurement Receiver	R&S	ES	R26	101	377	Dec.05,2019	Dec.05,2020
V	Horn Antenna	TDK	HRN	-0118	130	939	Sep.17,2018	Sep.17,2021
V	High Gain Horn Antenna	Schwarzbeck	BBHA	A-9170	69		Aug.11,2018	Aug.11,2021
V	Preamplifier	TDK	PA-02	2-0118	000		Dec.05,2019	Dec.05,2020
V	Preamplifier	TDK	PA-	02-2	TRS- 000	-307- 003	Dec.05,2019	Dec.05,2020
V	Loop antenna	Schwarzbeck	15 ⁻	19B	000	800	Jan.07,2019	Jan.07,2022
V	Band Reject Filter	Wainwright	WRCJV8-2350-2400- 2483.5-2533.5-40SS		4	1	Dec.05,2019	Dec.05,2020
V	High Pass Filter	Wi	WHKX10-2700-3000- 18000-40SS		2	3	Dec.05,2019	Dec.05,2020
	Software							
Used	De	scription		Manufact	anufacturer Name		Version	
V	Test Software for	Radiated dist	urbance	Farac	t	E	Z-EMC	Ver. UL-3A1





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	RF Conducted (Shielding Room D)							
Used	Equipment Manufacturer Model No. Serial No. Last Cal. Next Cal.							
V	Spectrum Analyzer	Keysight	N9030A	MY55410512	Dec.06,2019	Dec.05,2020		
V	Power sensor, Power Meter	R&S	OSP120	100921	Dec.06,2019	Dec.06,2020		
V	Attenuator	Agilent	8496B	US00431137	Dec.05,2019	Dec.05,2020		



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7. ANTENNA PORT TEST RESULTS

7.1. ON TIME AND DUTY CYCLE

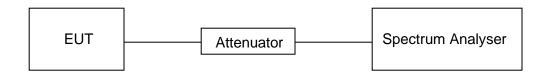
LIMITS

None; for reporting purposes only

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

TEST SETUP



TEST ENVIRONMENT

Temperature	26.8 °C	Relative Humidity	64.6 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix G.



7.2. 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	≥ 500KHz	2400-2483.5			
ISED RSS-Gen Clause 6.7	99% Occupied Bandwidth	For reporting purposes only.	2400-2483.5			

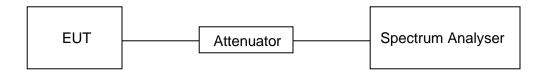
TEST PROCEDURE

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 :100kHz For 99% Occupied Bandwidth :1% to 5% of the occupied bandwidth
VBW	For 6dB Bandwidth : ≥3 × RBW For 99% Occupied Bandwidth : ≥3×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





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TEST ENVIRONMENT

Temperature	26.8 °C	Relative Humidity	64.6 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix A and B.



7.3. CONDUCTED OUTPUT POWER

LIMITS

	CFR 47 FCC Part15 (1 ISED RSS-24		
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247(b)(3) ISED RSS-247 5.4 (d)	Peak Output Power	1 watt or 30dBm	2400-2483.5

TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.

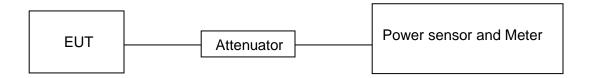
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.

Measure peak power each channel.

Peak Detector use for Peak result.

AVG Detector use for AVG result.

TEST SETUP



TEST ENVIRONMENT

Temperature	26.8 °C	Relative Humidity	64.6 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix C.

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7.4. POWER SPECTRAL DENSITY

LIMITS

	CFR 47 FCC Part15 (15.2 ISED RSS-247		
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC §15.247 (e) ISED RSS-247 5.2 (b)	Power Spectral Density	8 dBm/3 kHz	2400-2483.5

TEST PROCEDURE

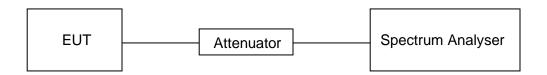
Connect the UUT to the spectrum analyser and use the following settings:

Center Frequency	The centre frequency of the channel under test
Detector	Peak
RBW	3 kHz ≤ RBW ≤100 kHz
VBW	≥3 × 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	26.8 °C	Relative Humidity	64.6 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix D.



7.5. CONDUCTED BANDEDGE AND SPURIOUS EMISSIONS

LIMITS

	CFR 47 FCC Part15 (1 ISED RSS-24	
Section	Test Item	Limit
CFR 47 FCC §15.247 (d) ISED RSS-247 5.5	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	100kHz
VBW	≥3 × RBW
Span	1.5 x DTS bandwidth
Trace	Max hold
Sweep time	Auto couple.

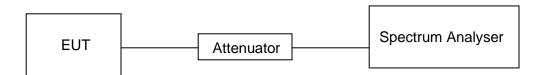
Use the peak marker function to determine the maximum PSD level.

Span	Set the center frequency and span to encompass frequency range to be measured
Detector	Peak
RBW	100kHz
VBW	≥3 × RBW
measurement points	≥span/RBW
Trace	Max hold
Sweep time	Auto couple.

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



TEST SETUP



TEST ENVIRONMENT

Temperature	26.8 °C	Relative Humidity	64.6 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

Please refer to appendix E and F.



8. RADIATED TEST RESULTS

LIMITS

Please refer to CFR 47 FCC §15.205 and §15.209

Please refer to ISED RSS-GEN Clause 8.9 (Transmitter)

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

Emissions radia	ated outside of the specified frequen	cy bands above 30)MHz
Frequency Range	Field Strength Limit	Field Stren	
(MHz)	(uV/m) at 3 m	(dBuV/m)	
		Quasi-I	-eak
30 - 88	100	40	
88 - 216	150	43.9	5
216 - 960	200	46	
Above 960	500	54	
Above 1000	500	Peak	Average
Above 1000	500	74	54

FCC Emissi	ons radiated outside of the specified for	requency bands below 30MHz
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

ISED General field strength limits at frequencies below 30 MHz

Table 6 – General field strength limits at frequencies below 30 MHz		
Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands please refer to ISED RSS-GEN Clause 8.10

MHz	MHz	GHz
0.090 - 0.110	149.9 - 150.05	9.0 - 9.2
0.495 - 0.505	156.52475 - 156.52525	9.3 - 9.5
2.1735 - 2.1905	156.7 - 156.9	10.6 - 12.7
3.020 - 3.026	162.0125 - 167.17	13.25 - 13.4
4.125 - 4.128	167.72 - 173.2	14.47 - 14.5
4.17725 - 4.17775	240 – 285	15.35 - 16.2
4.20725 - 4.20775	322 - 335.4	17.7 - 21.4
5.677 - 5.683	399.9 - 410	22.01 - 23.12
8.215 - 6.218	608 - 614	23.6 - 24.0
8.26775 - 6.26825	980 - 1427	31.2 - 31.8
8.31175 - 6.31225	1435 - 1626.5	36.43 - 36.5
8.291 - 8.294	1845.5 - 1848.5	Above 38.6
8.362 - 8.366	1680 - 1710	
8.37625 - 8.38675	1718.8 - 1722.2	
8.41425 - 8.41475	2200 - 2300	
12.29 - 12.293	2310 - 2390	
12.51975 - 12.52025	2483.5 - 2500	
12.57675 - 12.57725	2655 - 2900	
13.36 - 13.41	3280 - 3287	
16.42 - 16.423	3332 - 3339	
16.69475 - 16.69525	3345.8 - 3358	
16.80425 - 16.80475	3500 - 4400	
25.5 - 25.67	4500 - 5150	
37.5 - 38.25	5350 - 5460	
73 - 74.6	7250 - 7750	
74.8 - 75.2	8025 - 8500	
108 – 138		

FCC Restricted bands of operation refer to FCC §15.205 (a):

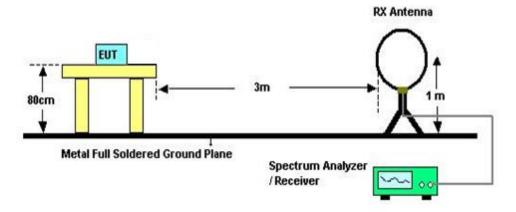
MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	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: 1 Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. 2 Above 38.6c



TEST SETUP AND PROCEDURE

Below 30MHz



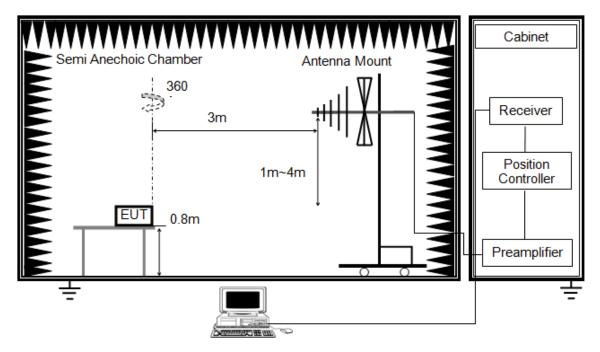
The setting of the spectrum analyser

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, Face-on and Face-off 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 1 m 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.
- 6. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field 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 site based on KDB 414788.



Below 1GHz and Above 30MHz



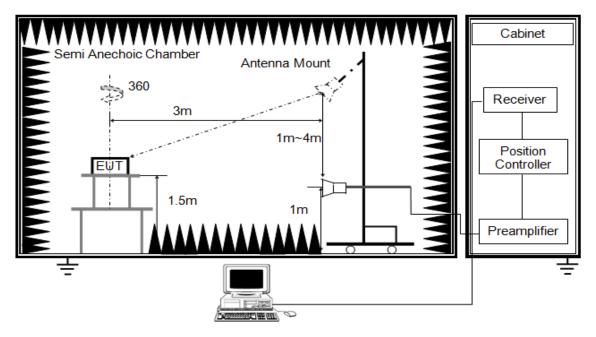
The setting of the spectrum analyser

RBW	120kHz
VBW	300kHz
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 1GHz



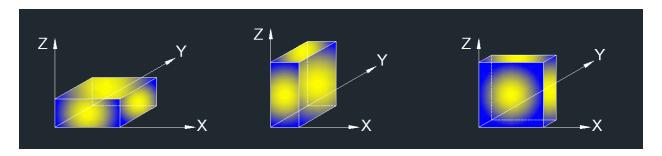
The setting of the spectrum analyser

RBW	1MHz
IVBW	PEAK: 3MHz 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 7.1.ON TIME AND DUTY CYCLE.



X axis, Y axis, Z axis positions:



Note: 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.

TEST ENVIRONMENT

Temperature	23.7 °C	Relative Humidity	61 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

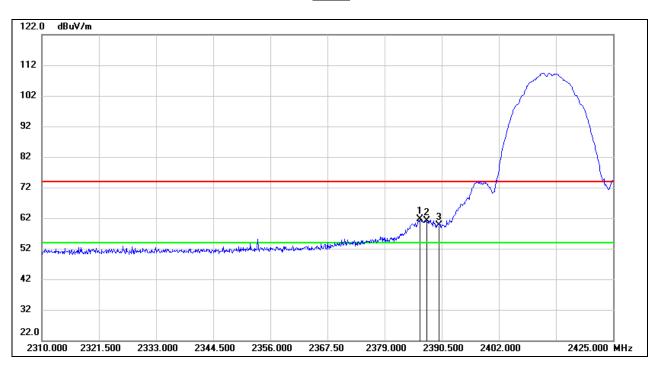


8.1. RESTRICTED BANDEDGE

8.1.1. 802.11b MODE

RESTRICTED BANDEDGE (CHANNEL 1, HORIZONTAL)

PEAK

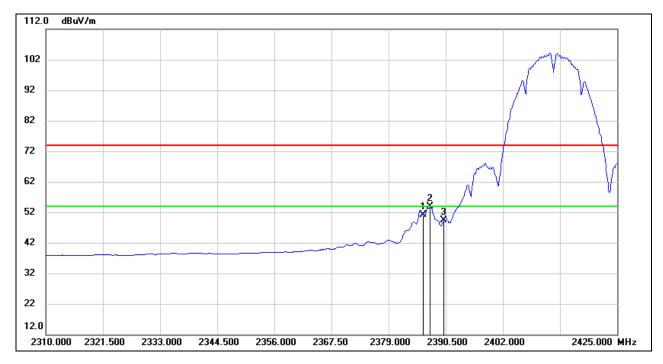


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.130	49.65	11.93	61.58	74.00	-12.42	peak
2	2387.395	49.16	11.95	61.11	74.00	-12.89	peak
3	2390.000	47.78	11.96	59.74	74.00	-14.26	peak

- 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.



<u>AVG</u>



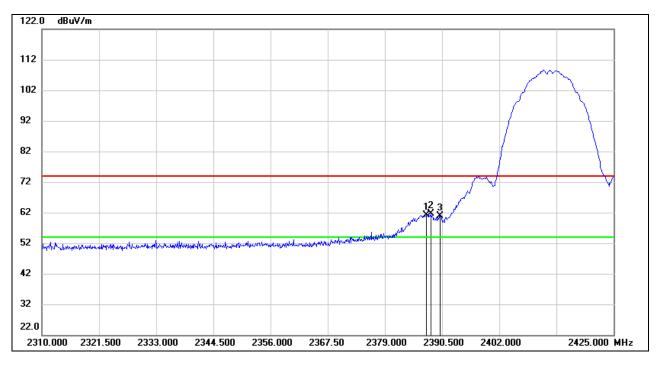
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2386.130	39.19	11.93	51.12	74.00	-22.88	peak
2	2387.395	41.90	11.95	53.85	54.00	-0.15	AVG
3	2390.000	37.36	11.96	49.32	54.00	-4.68	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 1, VERTICAL)

PEAK

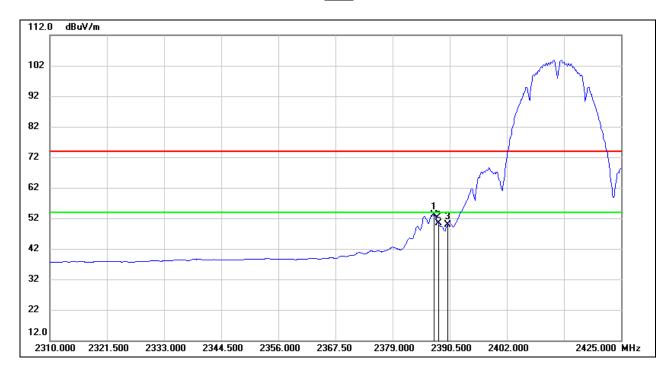


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.395	49.13	11.95	61.08	74.00	-12.92	peak
2	2388.200	49.60	11.95	61.55	74.00	-12.45	peak
3	2390.000	49.04	11.96	61.00	74.00	-13.00	peak

- 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.



<u>AVG</u>



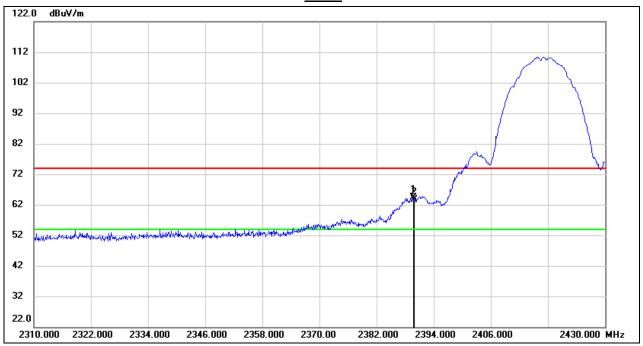
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.395	41.27	11.95	53.22	54.00	-0.78	AVG
2	2388.200	38.50	11.95	50.45	54.00	-3.55	AVG
3	2390.000	37.97	11.96	49.93	54.00	-4.07	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 2, HORIZONTAL)

PEAK

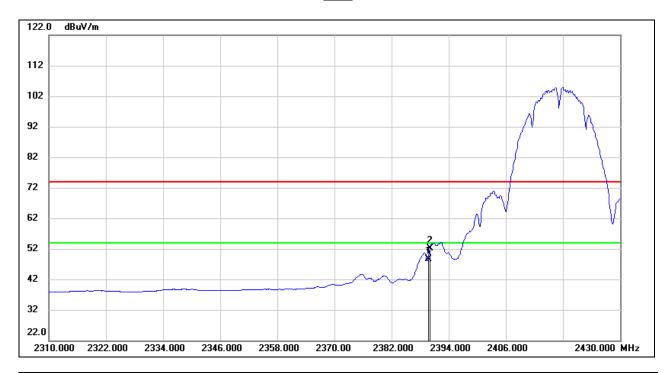


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.680	52.40	11.96	64.36	74.00	-9.64	peak
2	2390.000	51.61	11.96	63.57	74.00	-10.43	peak

- 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.



<u>AVG</u>



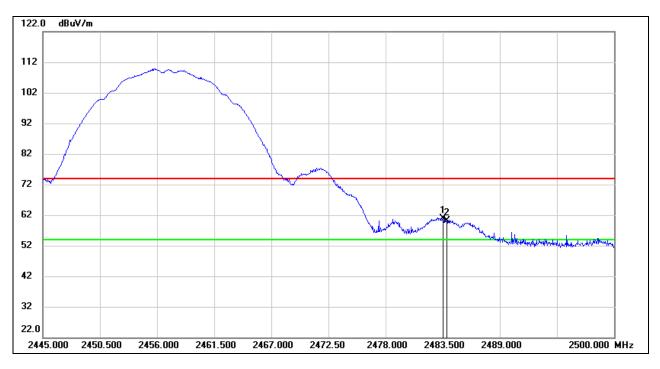
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2389.680	36.59	11.96	48.55	54.00	-5.45	AVG
2	2390.000	40.10	11.96	52.06	54.00	-1.94	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 10, HORIZONTAL)

PEAK



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	48.50	12.38	60.88	74.00	-13.12	peak
2	2483.885	47.86	12.38	60.24	74.00	-13.76	peak

- 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.



<u>AVG</u>



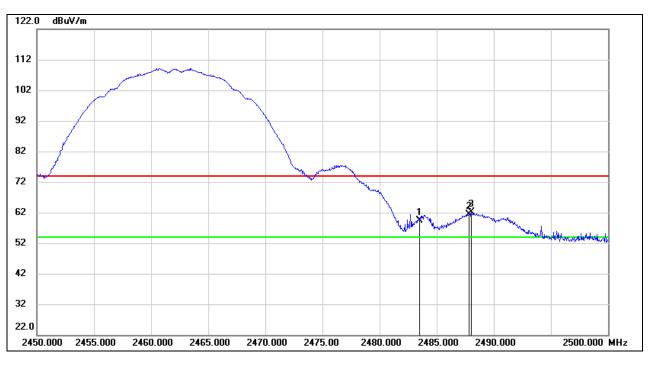
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	39.20	12.38	51.58	54.00	-2.42	AVG
2	2483.885	39.25	12.38	51.63	54.00	-2.37	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 11, HORIZONTAL)

PEAK

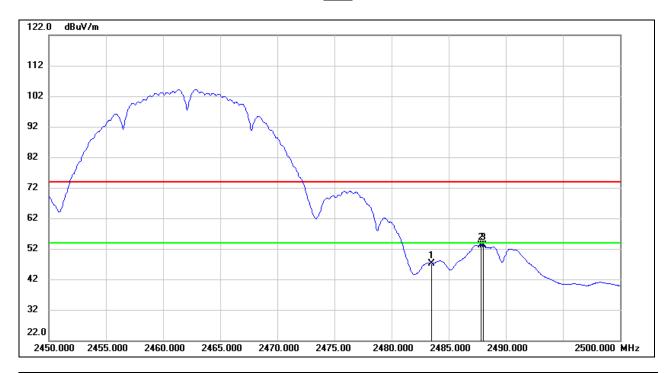


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	46.97	12.38	59.35	74.00	-14.65	peak
2	2487.850	48.92	12.39	61.31	74.00	-12.69	peak
3	2488.000	49.72	12.39	62.11	74.00	-11.89	peak

- 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	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	34.87	12.38	47.25	54.00	-6.75	AVG
2	2487.850	40.86	12.39	53.25	54.00	-0.75	AVG
3	2488.000	40.74	12.39	53.13	54.00	-0.87	AVG

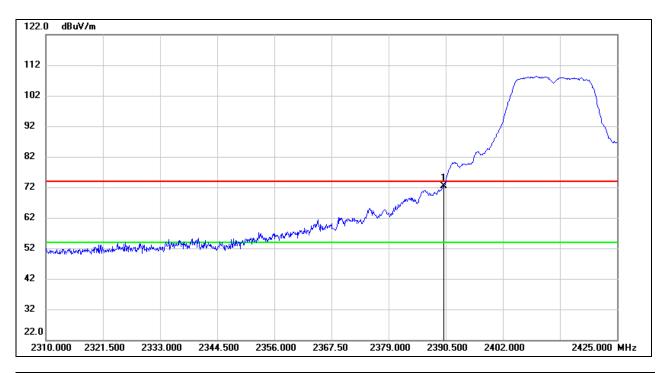
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.1.2. 802.11g MODE

RESTRICTED BANDEDGE (CHANNEL 1, HORIZONTAL)

PEAK

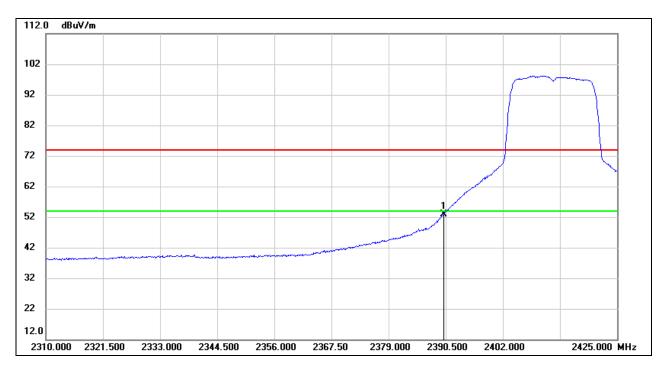


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	60.47	11.96	72.43	74.00	-1.57	peak

- 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



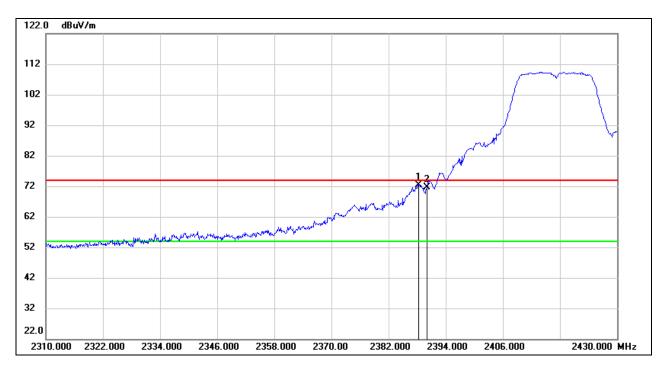
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	41.03	11.96	52.99	54.00	-1.01	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 2, HORIZONTAL)

PEAK

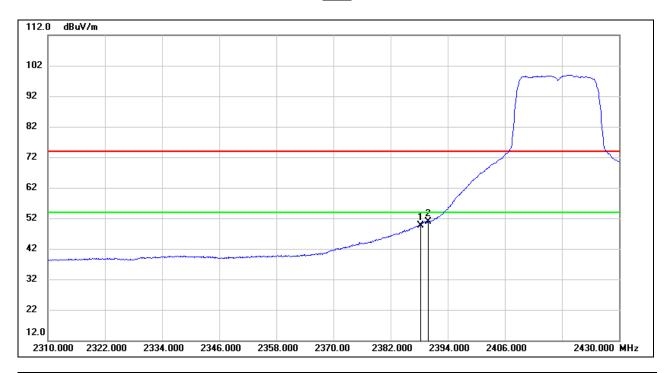


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.240	60.55	11.95	72.50	74.00	-1.50	peak
2	2390.000	59.74	11.96	71.70	74.00	-2.30	peak

- 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.



<u>AVG</u>

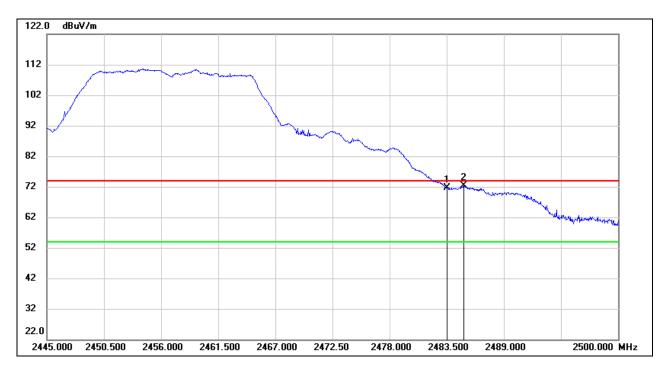


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2388.240	37.77	11.95	49.72	54.00	-4.28	AVG
2	2390.000	38.88	11.96	50.84	54.00	-3.16	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 10, HORIZONTAL)

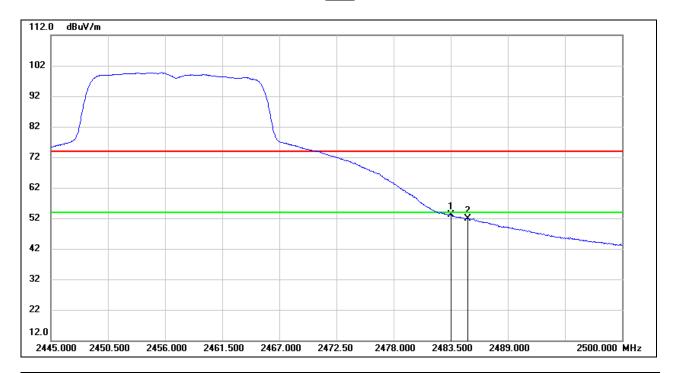


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	59.19	12.38	71.57	74.00	-2.43	peak
2	2485.150	60.06	12.38	72.44	74.00	-1.56	peak

- 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.



<u>AVG</u>



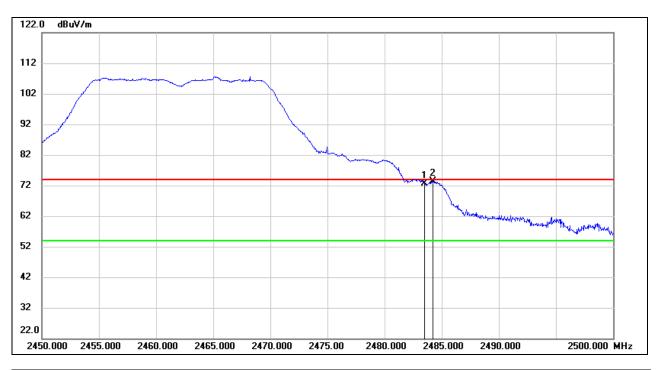
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.74	12.38	53.12	54.00	-0.88	AVG
2	2485.150	39.59	12.38	51.97	54.00	-2.03	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 11, HORIZONTAL)

PEAK

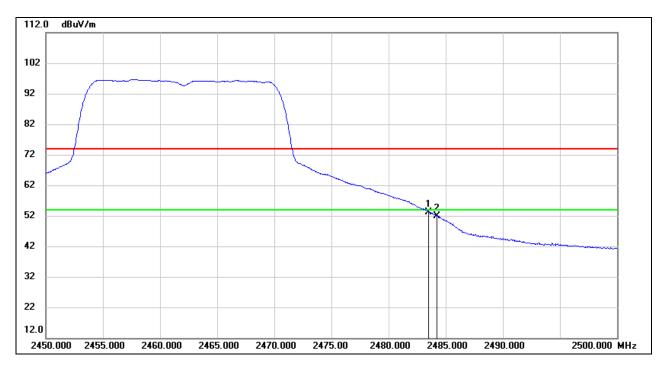


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	60.19	12.38	72.57	74.00	-1.43	peak
2	2484.250	60.99	12.38	73.37	74.00	-0.63	peak

- 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.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.81	12.38	53.19	54.00	-0.81	AVG
2	2484.250	39.59	12.38	51.97	54.00	-2.03	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. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

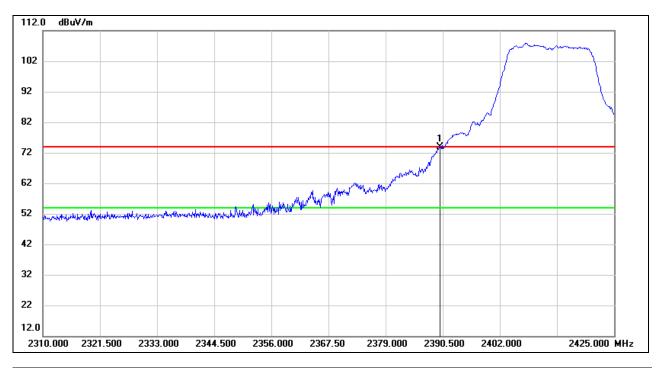
Note: All the polar had been tested, only the worst data was recorded in the report.



8.1.3. 802.11n HT20 MODE

RESTRICTED BANDEDGE (CHANNEL 1, HORIZONTAL)

<u>PEAK</u>

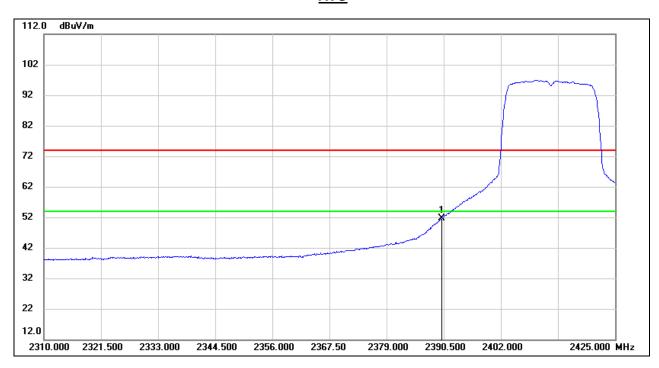


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2390.000	61.93	11.96	73.89	74.00	-0.11	peak

- 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.



<u>AVG</u>



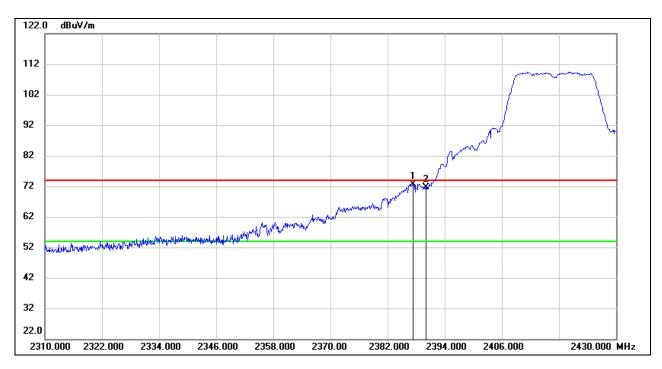
	No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Ī	1	2390.000	39.79	11.96	51.75	54.00	-2.25	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 2, HORIZONTAL)

PEAK

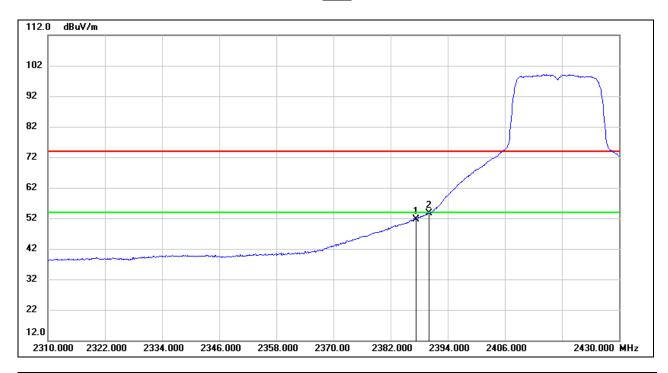


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.280	60.76	11.95	72.71	74.00	-1.29	peak
2	2390.000	59.60	11.96	71.56	74.00	-2.44	peak

- 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.



<u>AVG</u>



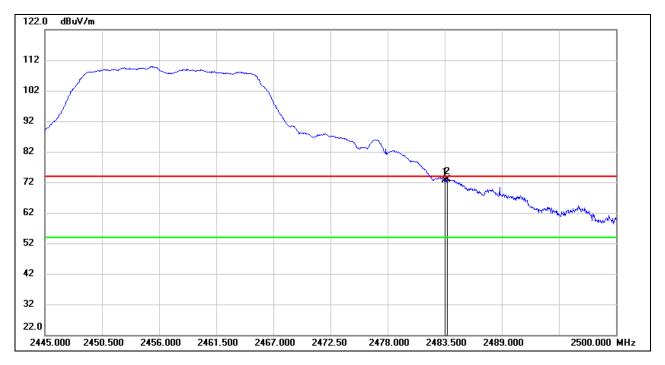
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2387.280	39.79	11.95	51.74	54.00	-2.26	AVG
2	2390.000	41.66	11.96	53.62	54.00	-0.38	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 10, HORIZONTAL)

PEAK

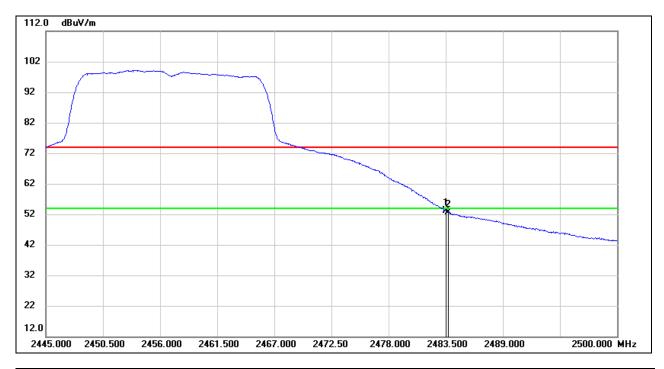


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	60.34	12.38	72.72	74.00	-1.28	peak
2	2483.775	60.48	12.38	72.86	74.00	-1.14	peak

- 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.



<u>AVG</u>



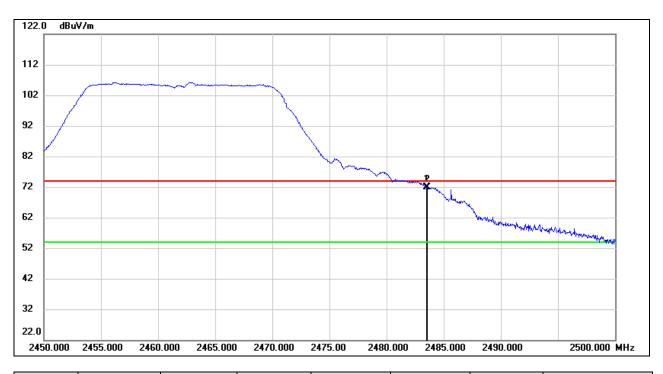
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.70	12.38	53.08	54.00	-0.92	AVG
2	2483.775	40.17	12.38	52.55	54.00	-1.45	AVG

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



RESTRICTED BANDEDGE (CHANNEL 11, HORIZONTAL)

PEAK

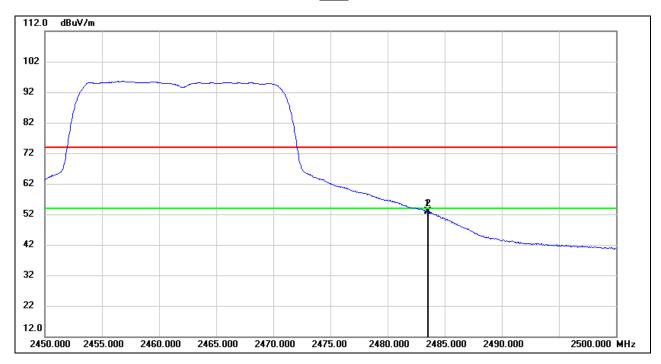


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	59.46	12.38	71.84	74.00	-2.16	peak
2	2483.550	59.61	12.38	71.99	74.00	-2.01	peak

- 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.



<u>AVG</u>



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	2483.500	40.60	12.38	52.98	54.00	-1.02	AVG
2	2483.550	40.55	12.38	52.93	54.00	-1.07	AVG

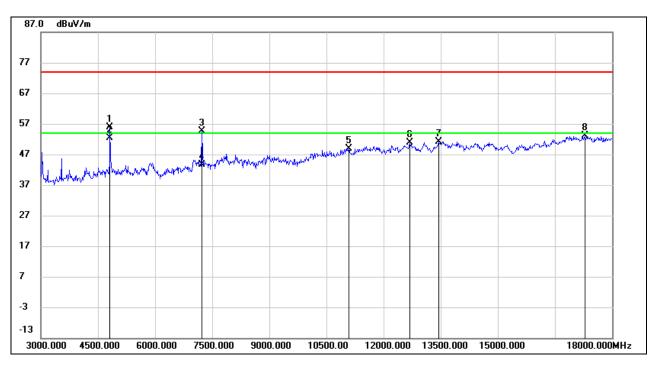
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Only the worst case emission was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



8.2. SPURIOUS EMISSIONS (3~18GHz)

8.2.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)

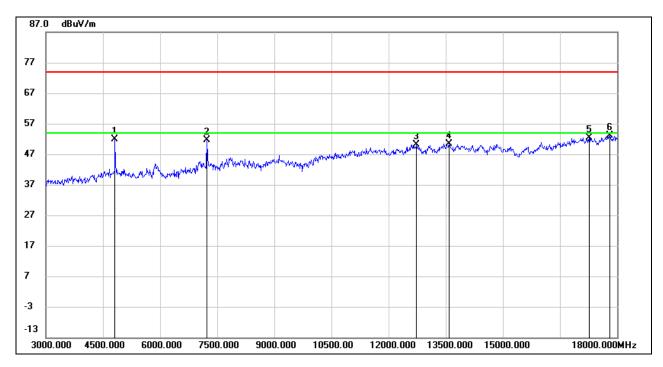


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	55.49	0.51	56.00	74.00	-18.00	peak
2	4815.000	51.98	0.51	52.49	54.00	-1.51	AVG
3	7230.000	48.84	5.89	54.73	74.00	-19.27	peak
4	7230.000	37.81	5.89	43.70	54.00	-10.30	AVG
5	11085.000	36.19	12.57	48.76	74.00	-25.24	peak
6	12690.000	36.60	14.25	50.85	74.00	-23.15	peak
7	13440.000	35.15	15.98	51.13	74.00	-22.87	peak
8	17280.000	31.53	21.59	53.12	74.00	-20.88	peak

- 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 the transmitting duration.
- 5. For the transmitting duration, please refer to clause 7.1.
- 6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 7. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)

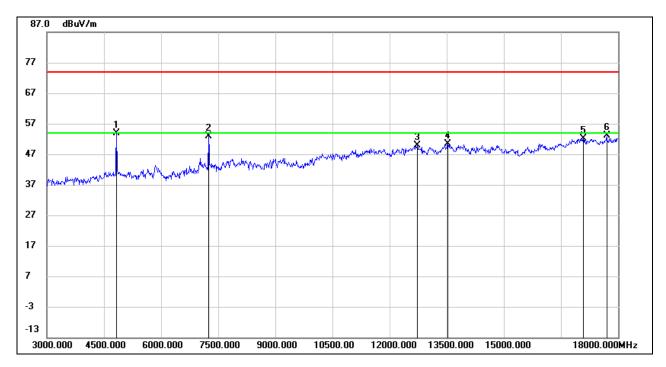


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	51.31	0.51	51.82	74.00	-22.18	peak
2	7230.000	45.81	5.89	51.70	74.00	-22.30	peak
3	12735.000	35.43	14.77	50.20	74.00	-23.80	peak
4	13590.000	34.43	16.00	50.43	74.00	-23.57	peak
5	17265.000	31.03	21.46	52.49	74.00	-21.51	peak
6	17805.000	29.76	23.31	53.07	74.00	-20.93	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)

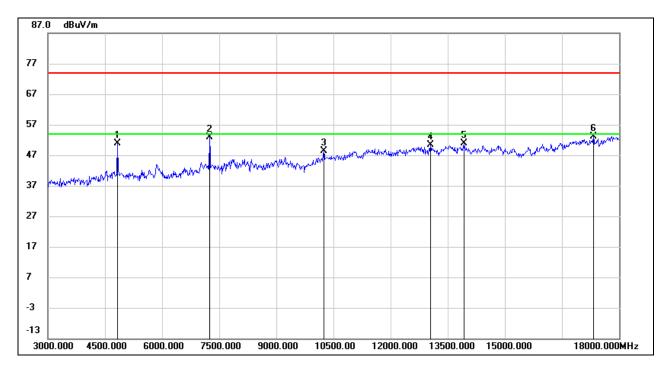


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	53.24	0.59	53.83	74.00	-20.17	peak
2	7245.000	46.88	5.92	52.80	74.00	-21.20	peak
3	12735.000	35.13	14.77	49.90	74.00	-24.10	peak
4	13530.000	34.46	15.86	50.32	74.00	-23.68	peak
5	17085.000	31.65	20.60	52.25	74.00	-21.75	peak
6	17700.000	30.73	22.43	53.16	74.00	-20.84	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)

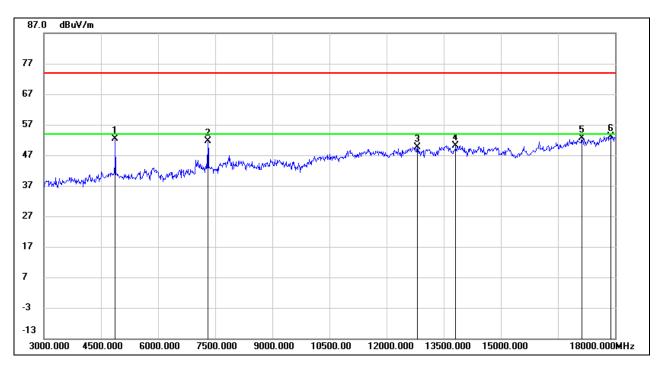


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	50.39	0.59	50.98	74.00	-23.02	peak
2	7245.000	46.90	5.92	52.82	74.00	-21.18	peak
3	10245.000	37.74	10.56	48.30	74.00	-25.70	peak
4	13050.000	35.42	15.07	50.49	74.00	-23.51	peak
5	13920.000	34.69	16.17	50.86	74.00	-23.14	peak
6	17325.000	31.56	21.67	53.23	74.00	-20.77	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)

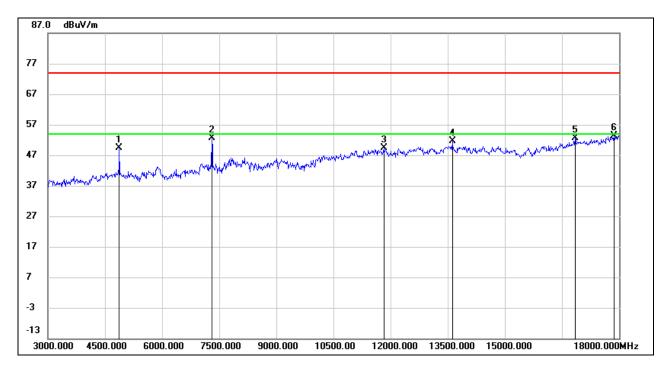


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	51.64	0.76	52.40	74.00	-21.60	peak
2	7305.000	45.62	6.08	51.70	74.00	-22.30	peak
3	12810.000	34.11	15.59	49.70	74.00	-24.30	peak
4	13815.000	33.20	16.97	50.17	74.00	-23.83	peak
5	17130.000	31.83	20.72	52.55	74.00	-21.45	peak
6	17880.000	29.79	23.34	53.13	74.00	-20.87	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)

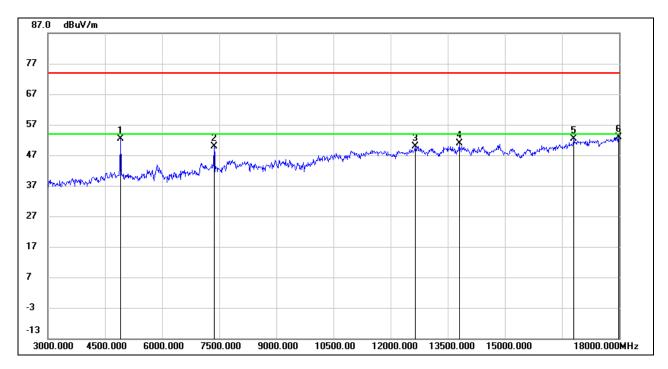


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	48.71	0.76	49.47	74.00	-24.53	peak
2	7305.000	46.43	6.08	52.51	74.00	-21.49	peak
3	11820.000	36.12	13.19	49.31	74.00	-24.69	peak
4	13620.000	35.53	15.99	51.52	74.00	-22.48	peak
5	16845.000	32.58	19.96	52.54	74.00	-21.46	peak
6	17865.000	30.04	23.33	53.37	74.00	-20.63	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)

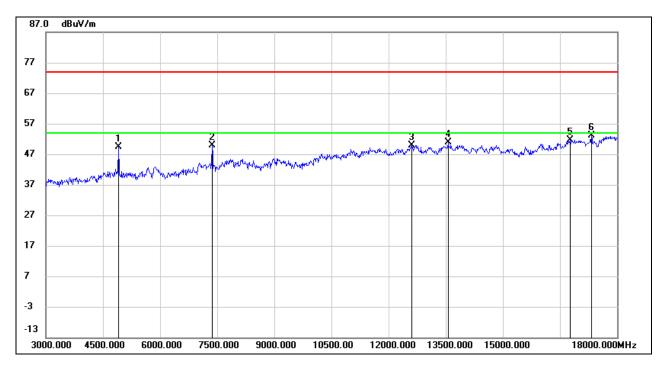


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	51.41	0.88	52.29	74.00	-21.71	peak
2	7365.000	43.64	6.34	49.98	74.00	-24.02	peak
3	12645.000	35.84	14.13	49.97	74.00	-24.03	peak
4	13800.000	33.81	17.10	50.91	74.00	-23.09	peak
5	16815.000	32.46	19.96	52.42	74.00	-21.58	peak
6	17985.000	29.41	23.44	52.85	74.00	-21.15	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)

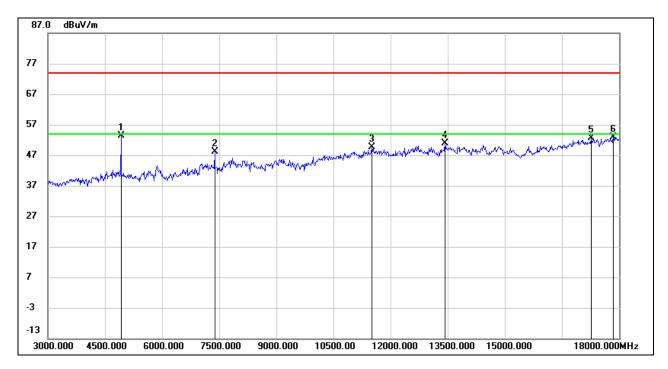


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	48.47	0.88	49.35	74.00	-24.65	peak
2	7365.000	43.58	6.34	49.92	74.00	-24.08	peak
3	12600.000	35.99	13.99	49.98	74.00	-24.02	peak
4	13560.000	34.88	15.93	50.81	74.00	-23.19	peak
5	16770.000	31.66	19.95	51.61	74.00	-22.39	peak
6	17325.000	31.45	21.67	53.12	74.00	-20.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)

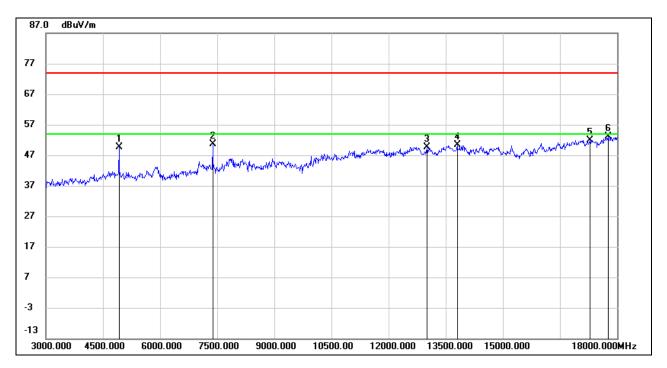


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	52.51	0.96	53.47	74.00	-20.53	peak
2	7380.000	41.79	6.41	48.20	74.00	-25.80	peak
3	11505.000	36.16	13.42	49.58	74.00	-24.42	peak
4	13425.000	34.93	16.02	50.95	74.00	-23.05	peak
5	17265.000	31.26	21.46	52.72	74.00	-21.28	peak
6	17850.000	29.64	23.32	52.96	74.00	-21.04	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



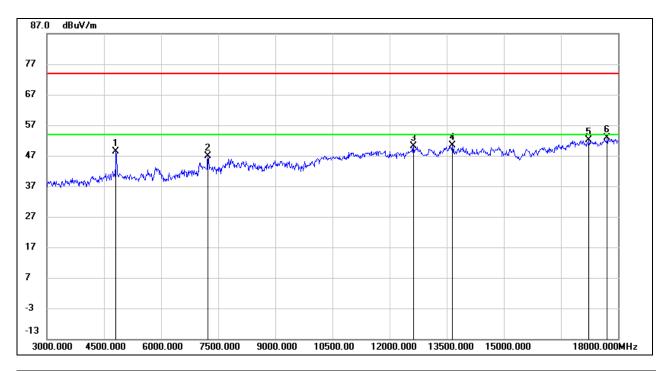
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	48.65	0.96	49.61	74.00	-24.39	peak
2	7380.000	44.32	6.41	50.73	74.00	-23.27	peak
3	13005.000	34.69	14.95	49.64	74.00	-24.36	peak
4	13800.000	33.16	17.10	50.26	74.00	-23.74	peak
5	17280.000	30.38	21.59	51.97	74.00	-22.03	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)

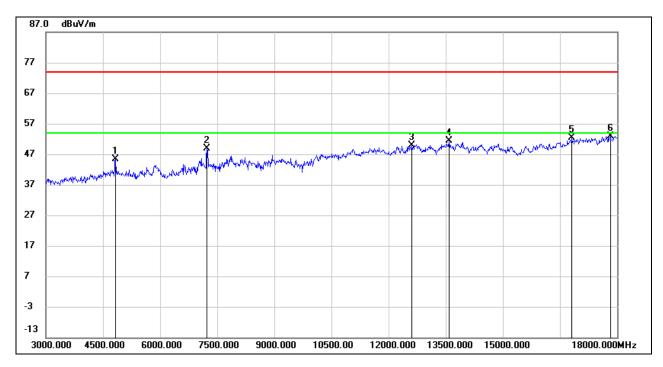


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	47.92	0.51	48.43	74.00	-25.57	peak
2	7230.000	40.91	5.89	46.80	74.00	-27.20	peak
3	12630.000	36.02	14.08	50.10	74.00	-23.90	peak
4	13650.000	34.37	15.94	50.31	74.00	-23.69	peak
5	17235.000	30.91	21.21	52.12	74.00	-21.88	peak
6	17715.000	30.23	22.56	52.79	74.00	-21.21	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)

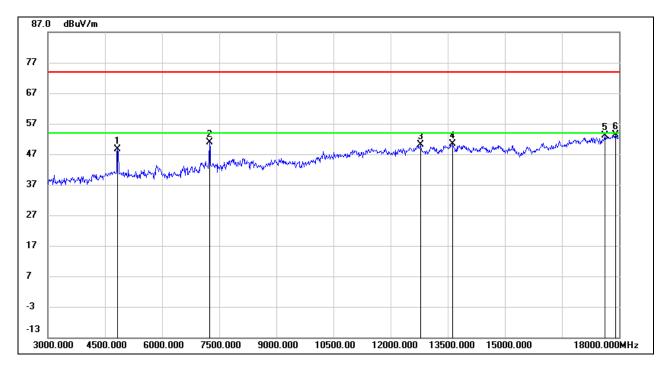


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	44.81	0.59	45.40	74.00	-28.60	peak
2	7230.000	43.08	5.89	48.97	74.00	-25.03	peak
3	12615.000	35.82	14.03	49.85	74.00	-24.15	peak
4	13590.000	35.32	16.00	51.32	74.00	-22.68	peak
5	16815.000	32.46	19.96	52.42	74.00	-21.58	peak
6	17820.000	29.52	23.30	52.82	74.00	-21.18	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)

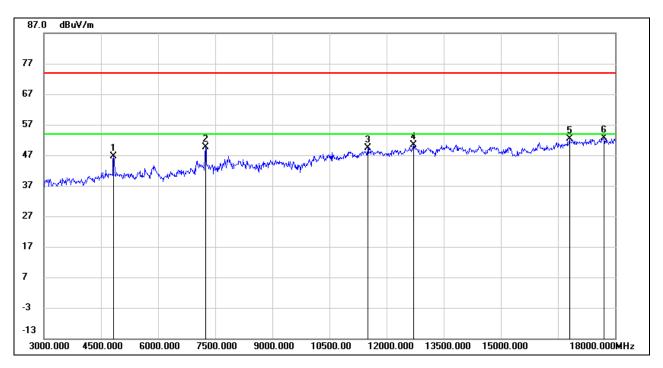


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	48.16	0.59	48.75	74.00	-25.25	peak
2	7245.000	44.99	5.92	50.91	74.00	-23.09	peak
3	12780.000	34.64	15.38	50.02	74.00	-23.98	peak
4	13620.000	34.51	15.99	50.50	74.00	-23.50	peak
5	17625.000	31.25	21.95	53.20	74.00	-20.80	peak
6	17910.000	30.00	23.35	53.35	74.00	-20.65	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)

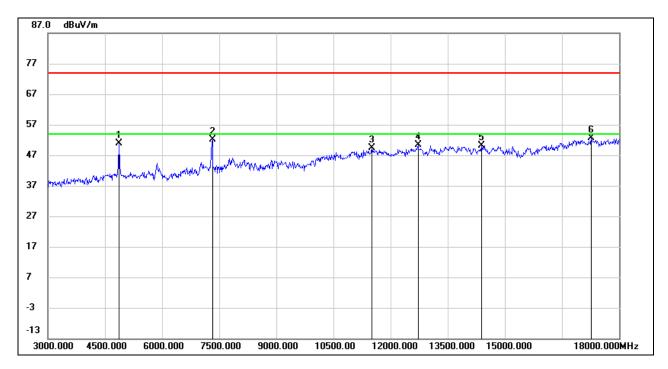


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	46.13	0.59	46.72	74.00	-27.28	peak
2	7245.000	43.65	5.92	49.57	74.00	-24.43	peak
3	11505.000	36.01	13.42	49.43	74.00	-24.57	peak
4	12705.000	36.09	14.35	50.44	74.00	-23.56	peak
5	16800.000	32.44	19.95	52.39	74.00	-21.61	peak
6	17715.000	29.97	22.56	52.53	74.00	-21.47	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)

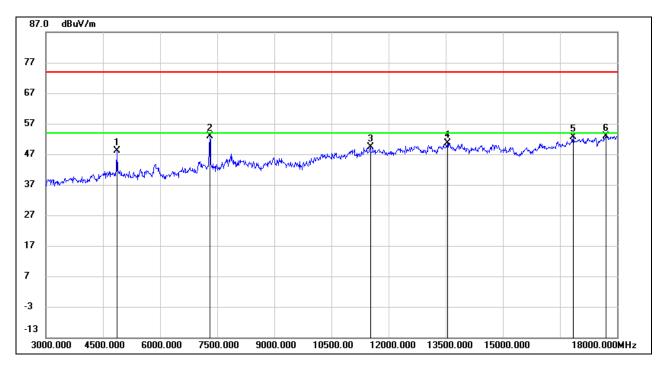


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	50.05	0.76	50.81	74.00	-23.19	peak
2	7320.000	46.05	6.14	52.19	74.00	-21.81	peak
3	11505.000	36.04	13.42	49.46	74.00	-24.54	peak
4	12720.000	35.78	14.57	50.35	74.00	-23.65	peak
5	14385.000	33.78	16.33	50.11	74.00	-23.89	peak
6	17265.000	31.25	21.46	52.71	74.00	-21.29	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)

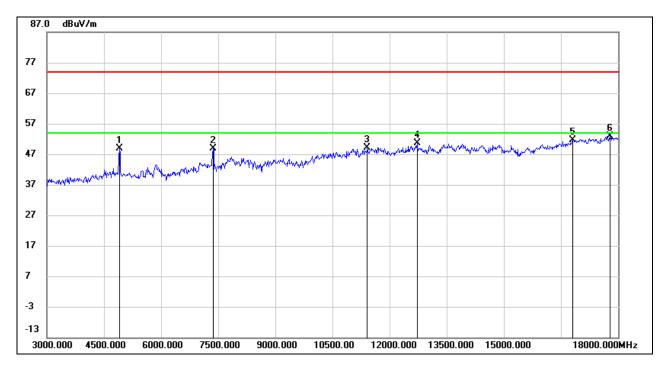


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4860.000	47.55	0.70	48.25	74.00	-25.75	peak
2	7305.000	46.72	6.08	52.80	74.00	-21.20	peak
3	11520.000	36.05	13.38	49.43	74.00	-24.57	peak
4	13545.000	34.79	15.89	50.68	74.00	-23.32	peak
5	16845.000	32.72	19.96	52.68	74.00	-21.32	peak
6	17715.000	30.38	22.56	52.94	74.00	-21.06	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)

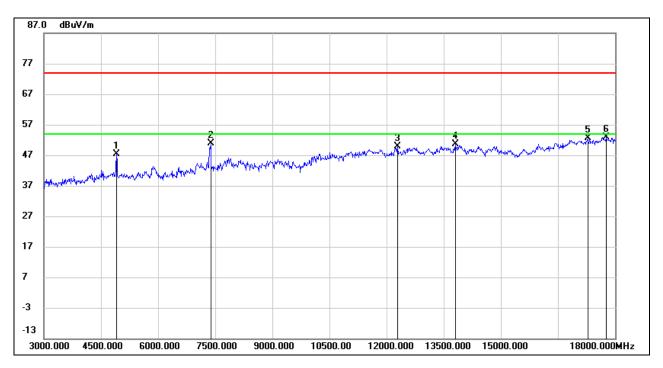


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	48.12	0.88	49.00	74.00	-25.00	peak
2	7365.000	42.62	6.34	48.96	74.00	-25.04	peak
3	11415.000	36.42	12.74	49.16	74.00	-24.84	peak
4	12720.000	36.07	14.57	50.64	74.00	-23.36	peak
5	16815.000	31.79	19.96	51.75	74.00	-22.25	peak
6	17790.000	29.63	23.22	52.85	74.00	-21.15	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)

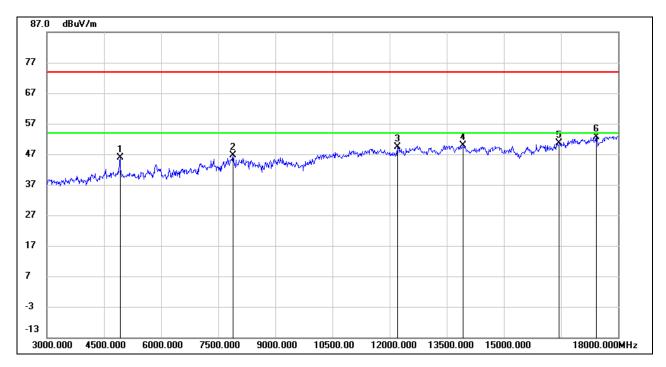


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	46.44	0.88	47.32	74.00	-26.68	peak
2	7380.000	44.56	6.41	50.97	74.00	-23.03	peak
3	12285.000	35.76	14.01	49.77	74.00	-24.23	peak
4	13800.000	33.54	17.10	50.64	74.00	-23.36	peak
5	17280.000	30.93	21.59	52.52	74.00	-21.48	peak
6	17775.000	29.77	23.09	52.86	74.00	-21.14	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)

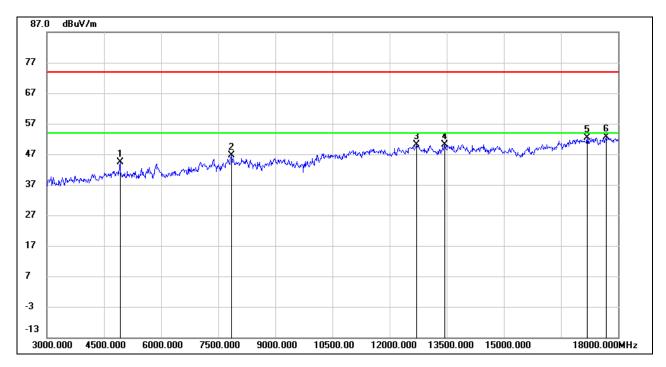


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	45.00	0.96	45.96	74.00	-28.04	peak
2	7890.000	39.21	7.30	46.51	74.00	-27.49	peak
3	12210.000	35.55	13.75	49.30	74.00	-24.70	peak
4	13935.000	33.76	16.15	49.91	74.00	-24.09	peak
5	16455.000	31.69	19.00	50.69	74.00	-23.31	peak
6	17430.000	31.27	21.38	52.65	74.00	-21.35	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



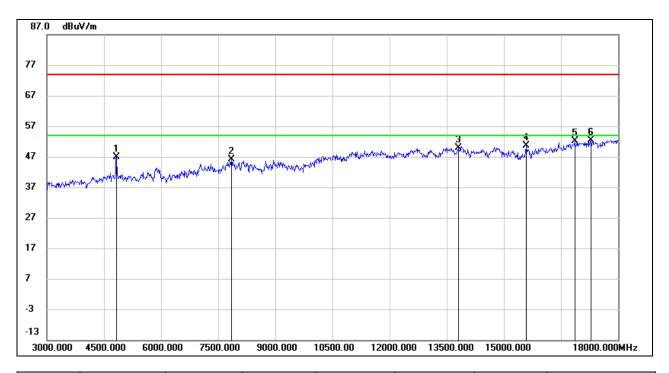
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	43.35	0.96	44.31	74.00	-29.69	peak
2	7845.000	38.93	7.62	46.55	74.00	-27.45	peak
3	12705.000	35.81	14.35	50.16	74.00	-23.84	peak
4	13455.000	34.30	15.93	50.23	74.00	-23.77	peak
5	17190.000	31.62	20.88	52.50	74.00	-21.50	peak
6	17685.000	30.41	22.33	52.74	74.00	-21.26	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.2.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)



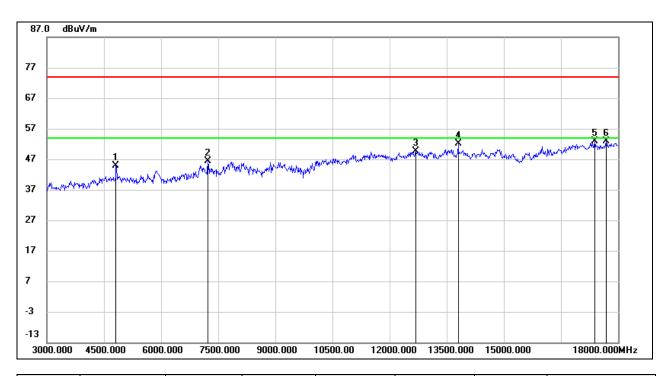
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	46.35	0.59	46.94	74.00	-27.06	peak
2	7845.000	38.56	7.62	46.18	74.00	-27.82	peak
3	13800.000	32.83	17.10	49.93	74.00	-24.07	peak
4	15585.000	33.78	16.88	50.66	74.00	-23.34	peak
5	16860.000	32.06	19.95	52.01	74.00	-21.99	peak
6	17280.000	30.78	21.59	52.37	74.00	-21.63	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)

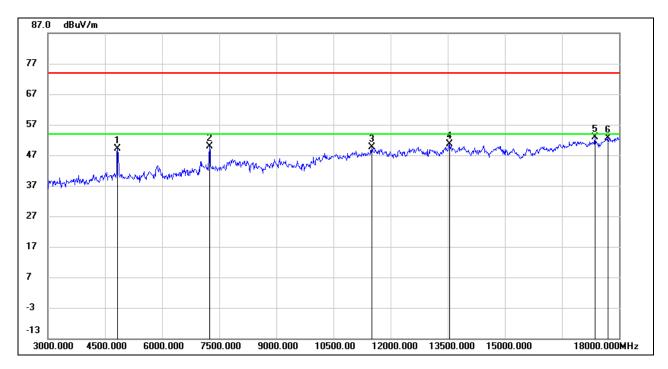


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4815.000	44.38	0.51	44.89	74.00	-29.11	peak
2	7230.000	40.42	5.89	46.31	74.00	-27.69	peak
3	12690.000	35.33	14.25	49.58	74.00	-24.42	peak
4	13800.000	35.02	17.10	52.12	74.00	-21.88	peak
5	17385.000	31.33	21.46	52.79	74.00	-21.21	peak
6	17685.000	30.52	22.33	52.85	74.00	-21.15	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)

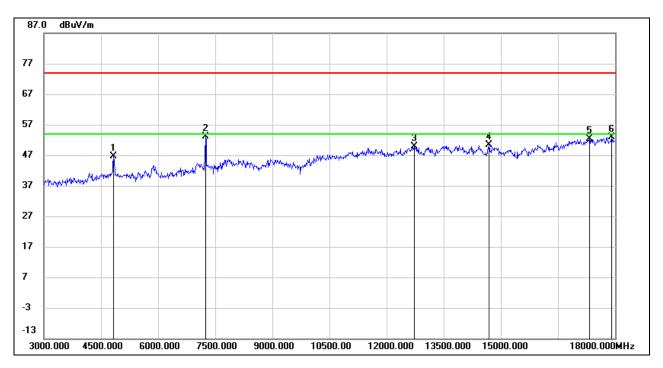


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	48.54	0.59	49.13	74.00	-24.87	peak
2	7245.000	43.96	5.92	49.88	74.00	-24.12	peak
3	11505.000	36.13	13.42	49.55	74.00	-24.45	peak
4	13545.000	34.63	15.89	50.52	74.00	-23.48	peak
5	17370.000	31.35	21.52	52.87	74.00	-21.13	peak
6	17700.000	30.32	22.43	52.75	74.00	-21.25	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)

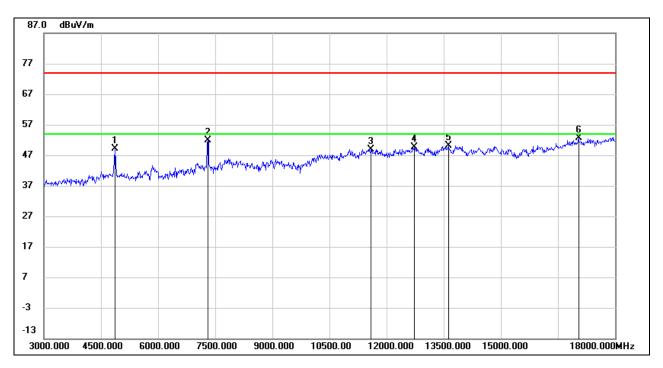


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4830.000	45.93	0.59	46.52	74.00	-27.48	peak
2	7245.000	47.14	5.92	53.06	74.00	-20.94	peak
3	12720.000	35.42	14.57	49.99	74.00	-24.01	peak
4	14685.000	34.28	16.02	50.30	74.00	-23.70	peak
5	17325.000	30.81	21.67	52.48	74.00	-21.52	peak
6	17910.000	29.63	23.35	52.98	74.00	-21.02	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)



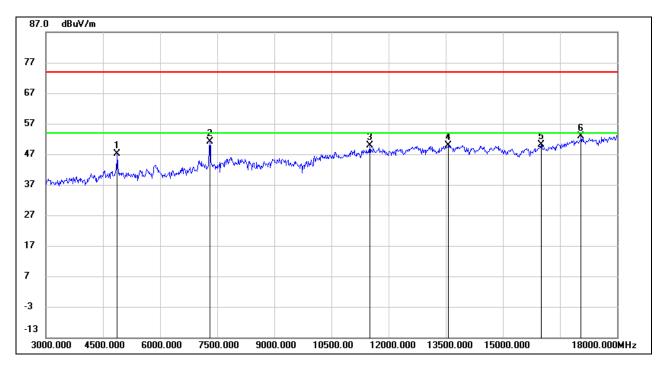
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	48.33	0.76	49.09	74.00	-24.91	peak
2	7305.000	45.73	6.08	51.81	74.00	-22.19	peak
3	11595.000	35.71	13.19	48.90	74.00	-25.10	peak
4	12720.000	35.15	14.57	49.72	74.00	-24.28	peak
5	13620.000	34.11	15.99	50.10	74.00	-23.90	peak
6	17040.000	32.11	20.49	52.60	74.00	-21.40	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)

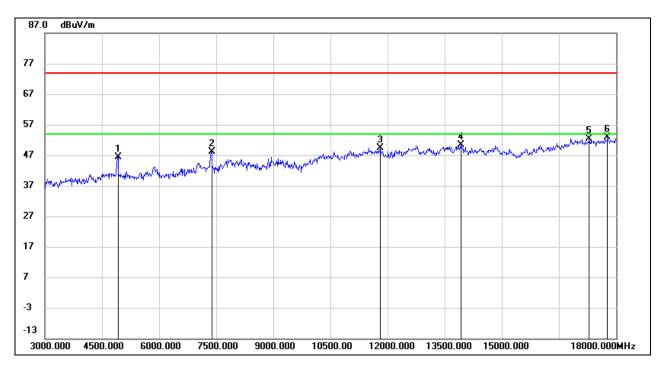


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4875.000	46.40	0.76	47.16	74.00	-26.84	peak
2	7305.000	44.96	6.08	51.04	74.00	-22.96	peak
3	11505.000	36.44	13.42	49.86	74.00	-24.14	peak
4	13575.000	33.82	15.97	49.79	74.00	-24.21	peak
5	16005.000	32.38	17.71	50.09	74.00	-23.91	peak
6	17055.000	32.33	20.53	52.86	74.00	-21.14	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)



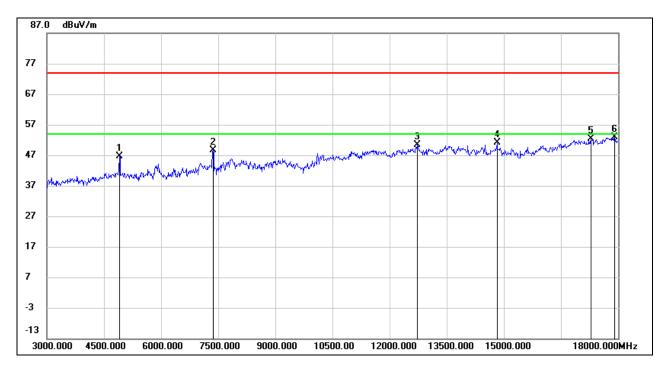
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	45.51	0.96	46.47	74.00	-27.53	peak
2	7380.000	41.66	6.41	48.07	74.00	-25.93	peak
3	11805.000	36.26	13.19	49.45	74.00	-24.55	peak
4	13920.000	34.25	16.17	50.42	74.00	-23.58	peak
5	17295.000	30.77	21.71	52.48	74.00	-21.52	peak
6	17775.000	29.80	23.09	52.89	74.00	-21.11	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. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)

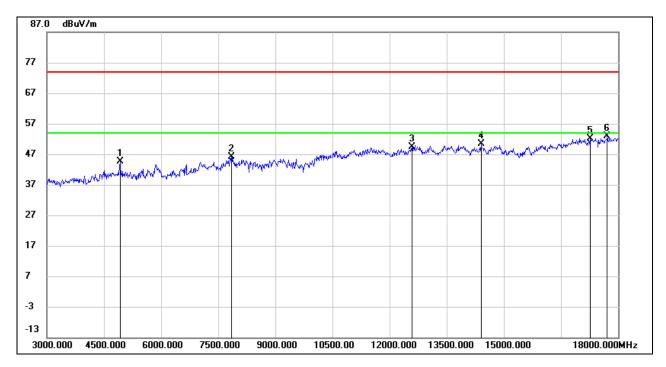


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4905.000	45.72	0.88	46.60	74.00	-27.40	peak
2	7365.000	42.18	6.34	48.52	74.00	-25.48	peak
3	12720.000	35.82	14.57	50.39	74.00	-23.61	peak
4	14820.000	35.29	15.94	51.23	74.00	-22.77	peak
5	17280.000	30.81	21.59	52.40	74.00	-21.60	peak
6	17910.000	29.49	23.35	52.84	74.00	-21.16	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)

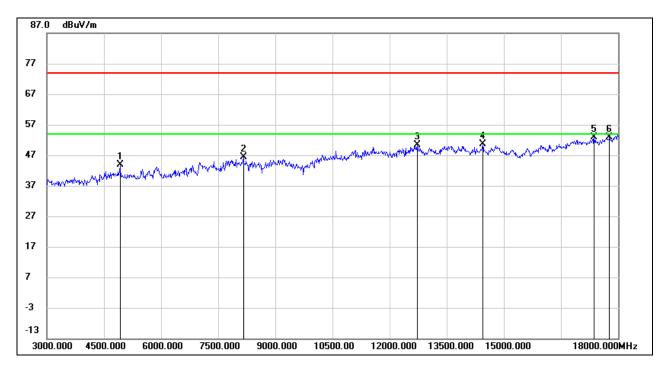


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	43.62	0.96	44.58	74.00	-29.42	peak
2	7845.000	38.58	7.62	46.20	74.00	-27.80	peak
3	12585.000	35.27	14.08	49.35	74.00	-24.65	peak
4	14400.000	33.92	16.35	50.27	74.00	-23.73	peak
5	17265.000	30.60	21.46	52.06	74.00	-21.94	peak
6	17715.000	30.27	22.56	52.83	74.00	-21.17	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	4920.000	42.99	0.96	43.95	74.00	-30.05	peak
2	8160.000	38.09	8.18	46.27	74.00	-27.73	peak
3	12720.000	35.76	14.57	50.33	74.00	-23.67	peak
4	14445.000	34.35	16.36	50.71	74.00	-23.29	peak
5	17370.000	31.26	21.52	52.78	74.00	-21.22	peak
6	17775.000	29.87	23.09	52.96	74.00	-21.04	peak

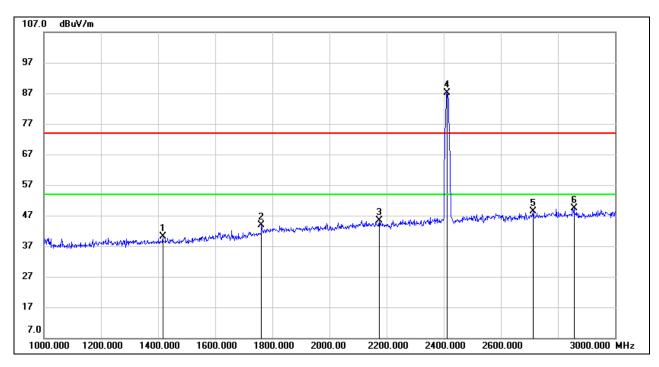
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3. SPURIOUS EMISSIONS (1~3GHz)

8.3.1. 802.11b MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)

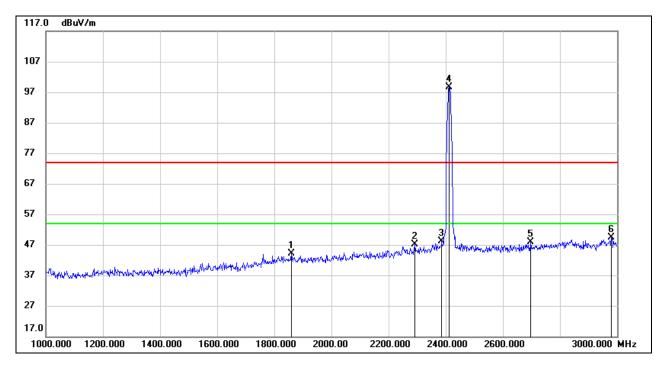


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1416.000	33.39	6.74	40.13	74.00	-33.87	peak
2	1762.000	34.69	9.19	43.88	74.00	-30.12	peak
3	2174.000	34.13	11.24	45.37	74.00	-28.63	peak
4	2412.000	74.93	12.08	87.01	/	/	fundamental
5	2714.000	35.27	13.10	48.37	74.00	-25.63	peak
6	2856.000	35.42	13.91	49.33	74.00	-24.67	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)

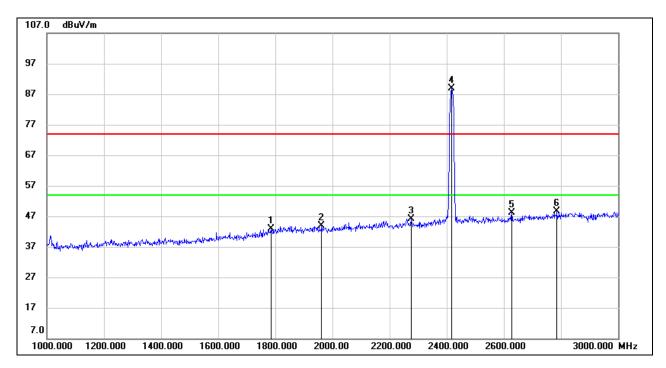


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1860.000	34.18	9.90	44.08	74.00	-29.92	peak
2	2292.000	35.73	11.33	47.06	74.00	-26.94	peak
3	2386.000	36.14	11.93	48.07	74.00	-25.93	peak
4	2412.000	86.65	12.08	98.73	/	/	fundamental
5	2698.000	34.82	12.98	47.80	74.00	-26.20	peak
6	2980.000	34.82	14.56	49.38	74.00	-24.62	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)

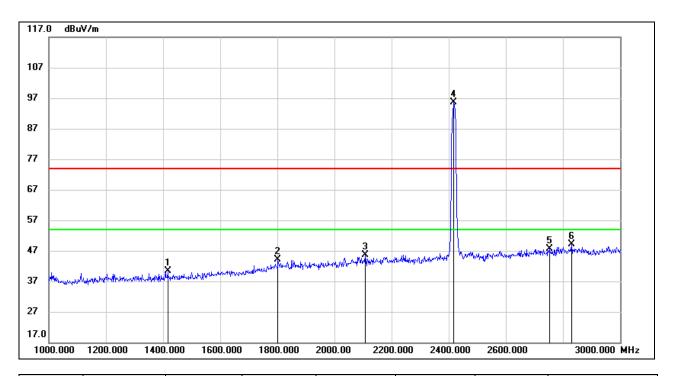


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1784.000	33.40	9.54	42.94	74.00	-31.06	peak
2	1962.000	33.83	10.15	43.98	74.00	-30.02	peak
3	2276.000	34.71	11.33	46.04	74.00	-27.96	peak
4	2417.000	76.79	12.10	88.89	/	/	fundamental
5	2628.000	35.64	12.57	48.21	74.00	-25.79	peak
6	2786.000	35.00	13.66	48.66	74.00	-25.34	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)

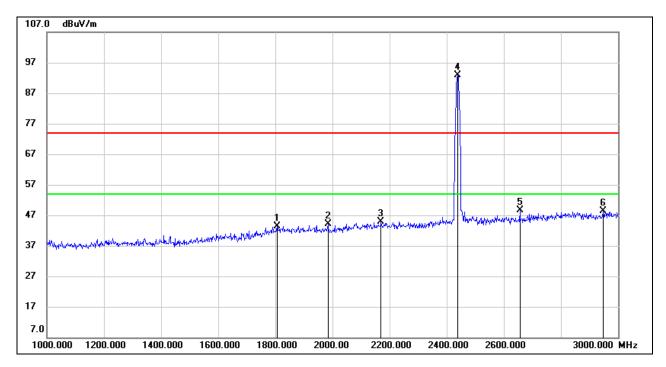


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1416.000	33.55	6.74	40.29	74.00	-33.71	peak
2	1802.000	34.35	9.79	44.14	74.00	-29.86	peak
3	2108.000	34.57	11.05	45.62	74.00	-28.38	peak
4	2417.000	83.41	12.10	95.51	/	/	fundamental
5	2752.000	34.26	13.40	47.66	74.00	-26.34	peak
6	2830.000	35.21	13.84	49.05	74.00	-24.95	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)

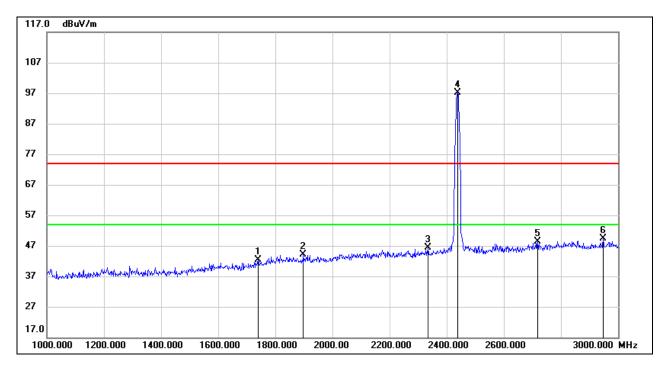


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1806.000	33.65	9.79	43.44	74.00	-30.56	peak
2	1984.000	33.91	10.21	44.12	74.00	-29.88	peak
3	2170.000	33.55	11.24	44.79	74.00	-29.21	peak
4	2437.000	80.58	12.19	92.77	/	/	fundamental
5	2656.000	35.95	12.74	48.69	74.00	-25.31	peak
6	2948.000	34.02	14.35	48.37	74.00	-25.63	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)

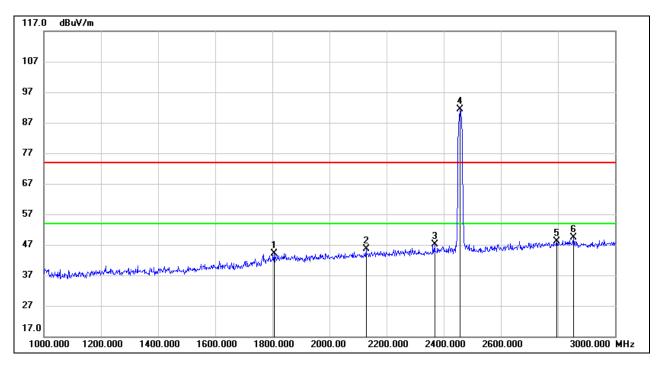


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1740.000	33.53	8.84	42.37	74.00	-31.63	peak
2	1898.000	34.24	9.97	44.21	74.00	-29.79	peak
3	2334.000	34.85	11.56	46.41	74.00	-27.59	peak
4	2437.000	84.97	12.19	97.16	/	/	fundamental
5	2718.000	35.36	13.12	48.48	74.00	-25.52	peak
6	2948.000	34.95	14.35	49.30	74.00	-24.70	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)

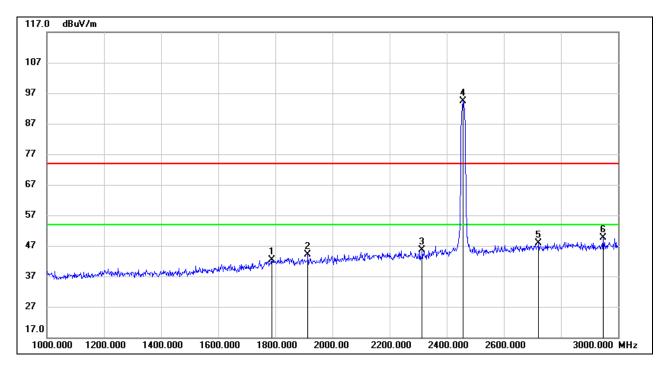


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1806.000	34.26	9.79	44.05	74.00	-29.95	peak
2	2128.000	34.41	11.11	45.52	74.00	-28.48	peak
3	2368.000	35.44	11.81	47.25	74.00	-26.75	peak
4	2457.000	79.12	12.26	91.38	/	/	fundamental
5	2796.000	34.37	13.74	48.11	74.00	-25.89	peak
6	2854.000	35.48	13.91	49.39	74.00	-24.61	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)

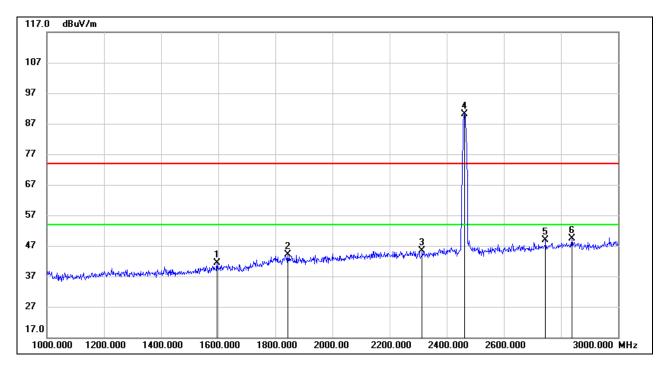


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1788.000	32.82	9.60	42.42	74.00	-31.58	peak
2	1914.000	34.09	10.00	44.09	74.00	-29.91	peak
3	2314.000	34.08	11.43	45.51	74.00	-28.49	peak
4	2457.000	82.15	12.26	94.41	/	/	fundamental
5	2722.000	34.75	13.17	47.92	74.00	-26.08	peak
6	2948.000	35.31	14.35	49.66	74.00	-24.34	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)

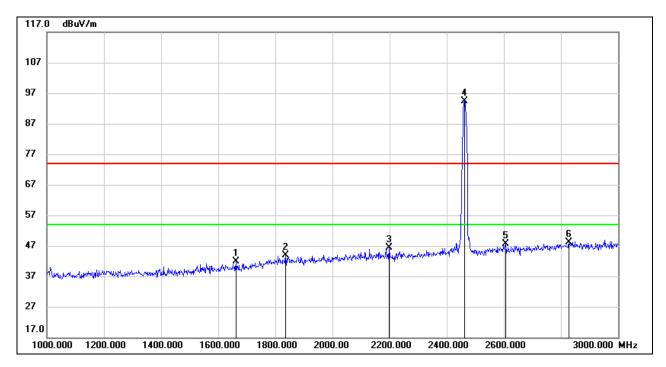


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1596.000	33.34	7.93	41.27	74.00	-32.73	peak
2	1844.000	34.36	9.87	44.23	74.00	-29.77	peak
3	2314.000	34.01	11.43	45.44	74.00	-28.56	peak
4	2462.000	77.93	12.29	90.22	/	/	fundamental
5	2746.000	35.57	13.35	48.92	74.00	-25.08	peak
6	2838.000	35.47	13.87	49.34	74.00	-24.66	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



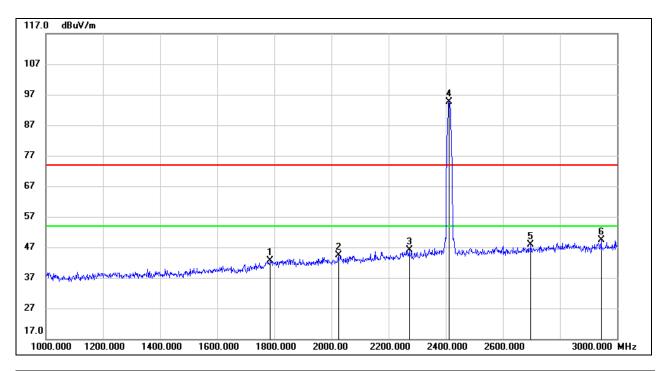
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1662.000	33.68	8.13	41.81	74.00	-32.19	peak
2	1836.000	33.96	9.86	43.82	74.00	-30.18	peak
3	2198.000	35.16	11.32	46.48	74.00	-27.52	peak
4	2462.000	81.99	12.29	94.28	/	/	fundamental
5	2606.000	35.18	12.45	47.63	74.00	-26.37	peak
6	2828.000	34.28	13.84	48.12	74.00	-25.88	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.2. 802.11g MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)

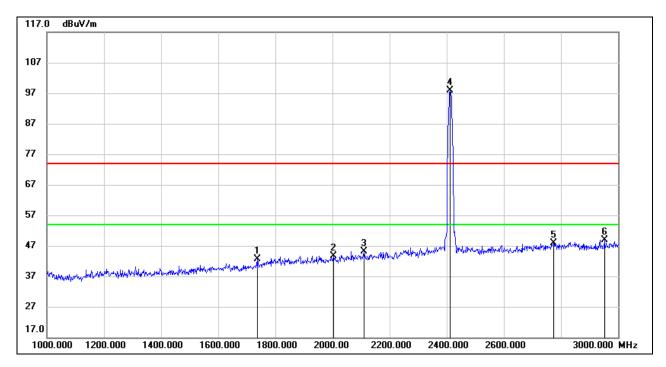


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1786.000	33.05	9.57	42.62	74.00	-31.38	peak
2	2024.000	33.85	10.44	44.29	74.00	-29.71	peak
3	2272.000	34.76	11.33	46.09	74.00	-27.91	peak
4	2412.000	82.48	12.08	94.56	/	/	fundamental
5	2698.000	34.94	12.98	47.92	74.00	-26.08	peak
6	2944.000	35.11	14.32	49.43	74.00	-24.57	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)

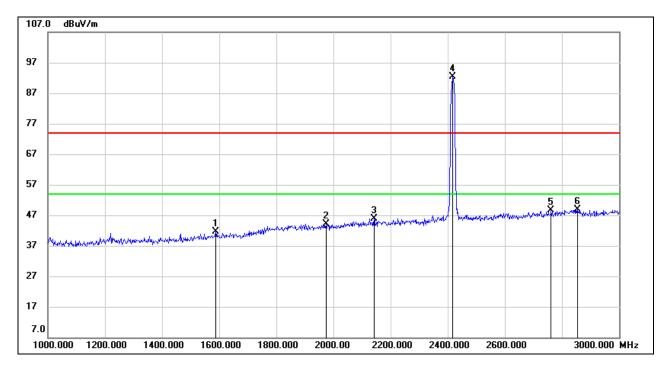


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1738.000	33.74	8.81	42.55	74.00	-31.45	peak
2	2004.000	33.38	10.28	43.66	74.00	-30.34	peak
3	2110.000	33.96	11.07	45.03	74.00	-28.97	peak
4	2412.000	85.78	12.08	97.86	/	/	fundamental
5	2774.000	34.43	13.56	47.99	74.00	-26.01	peak
6	2952.000	34.57	14.38	48.95	74.00	-25.05	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)

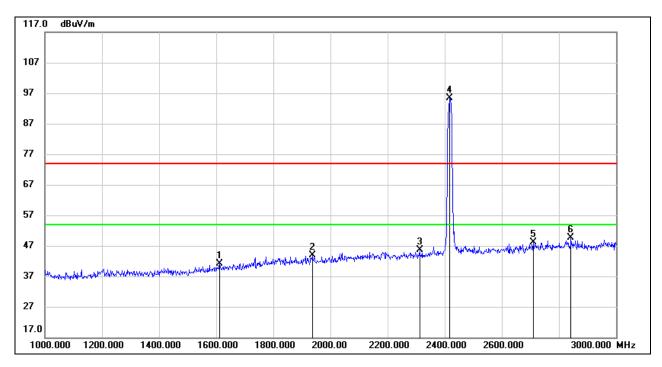


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1588.000	33.77	7.85	41.62	74.00	-32.38	peak
2	1974.000	34.03	10.18	44.21	74.00	-29.79	peak
3	2142.000	34.77	11.16	45.93	74.00	-28.07	peak
4	2417.000	80.25	12.10	92.35	/	/	fundamental
5	2762.000	35.21	13.47	48.68	74.00	-25.32	peak
6	2854.000	34.91	13.91	48.82	74.00	-25.18	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)

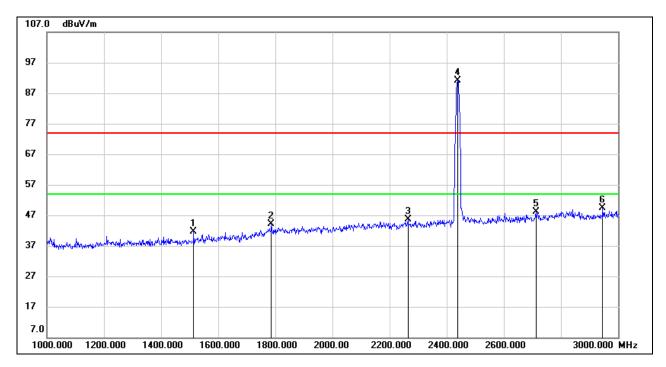


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1612.000	33.22	8.01	41.23	74.00	-32.77	peak
2	1936.000	33.77	10.08	43.85	74.00	-30.15	peak
3	2312.000	34.20	11.41	45.61	74.00	-28.39	peak
4	2417.000	83.25	12.10	95.35	/	/	fundamental
5	2710.000	34.94	13.08	48.02	74.00	-25.98	peak
6	2842.000	35.65	13.87	49.52	74.00	-24.48	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)

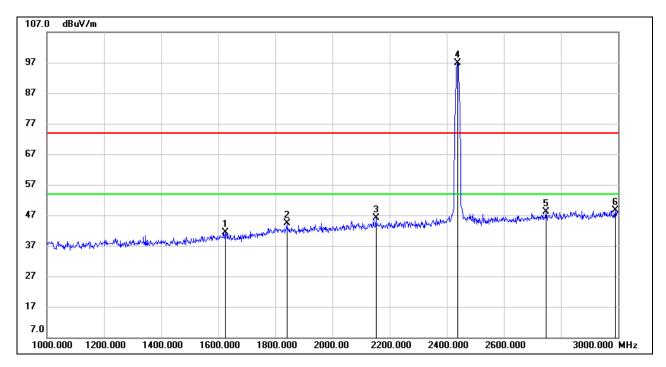


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1514.000	34.52	7.11	41.63	74.00	-32.37	peak
2	1786.000	34.51	9.57	44.08	74.00	-29.92	peak
3	2264.000	34.29	11.33	45.62	74.00	-28.38	peak
4	2437.000	79.01	12.19	91.20	/	/	fundamental
5	2712.000	35.01	13.09	48.10	74.00	-25.90	peak
6	2946.000	34.95	14.34	49.29	74.00	-24.71	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CH6 CHANNEL, VERTICAL)

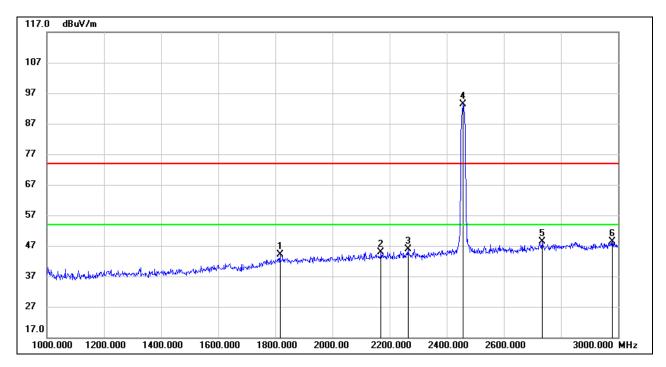


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1624.000	33.43	8.03	41.46	74.00	-32.54	peak
2	1840.000	34.56	9.86	44.42	74.00	-29.58	peak
3	2152.000	34.84	11.18	46.02	74.00	-27.98	peak
4	2437.000	84.74	12.19	96.93	/	/	fundamental
5	2748.000	34.73	13.36	48.09	74.00	-25.91	peak
6	2990.000	34.11	14.62	48.73	74.00	-25.27	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)

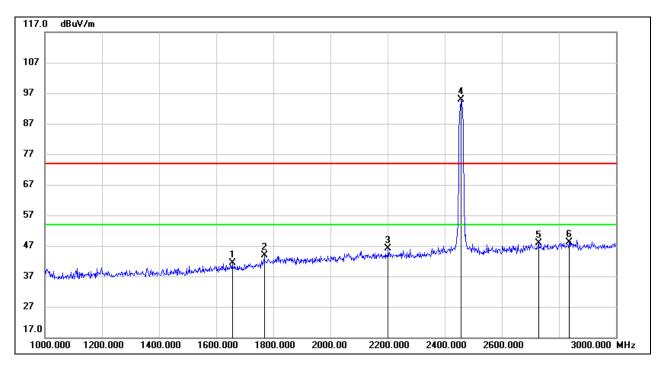


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1816.000	34.31	9.82	44.13	74.00	-29.87	peak
2	2170.000	33.64	11.24	44.88	74.00	-29.12	peak
3	2264.000	34.56	11.33	45.89	74.00	-28.11	peak
4	2457.000	81.14	12.26	93.40	/	/	fundamental
5	2734.000	35.02	13.25	48.27	74.00	-25.73	peak
6	2980.000	33.83	14.56	48.39	74.00	-25.61	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)

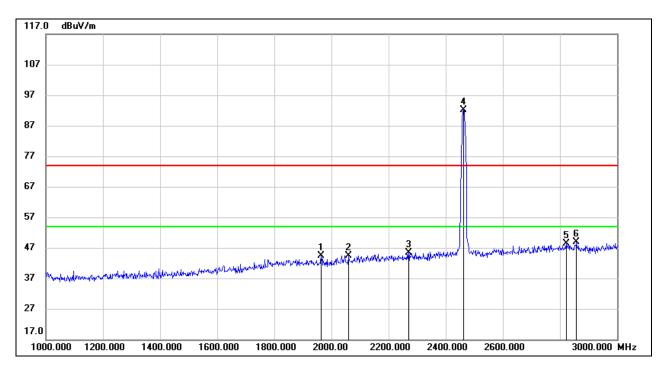


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1656.000	33.21	8.10	41.31	74.00	-32.69	peak
2	1768.000	34.66	9.28	43.94	74.00	-30.06	peak
3	2202.000	34.82	11.31	46.13	74.00	-27.87	peak
4	2457.000	82.51	12.26	94.77	/	/	fundamental
5	2728.000	34.59	13.20	47.79	74.00	-26.21	peak
6	2836.000	34.18	13.86	48.04	74.00	-25.96	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)

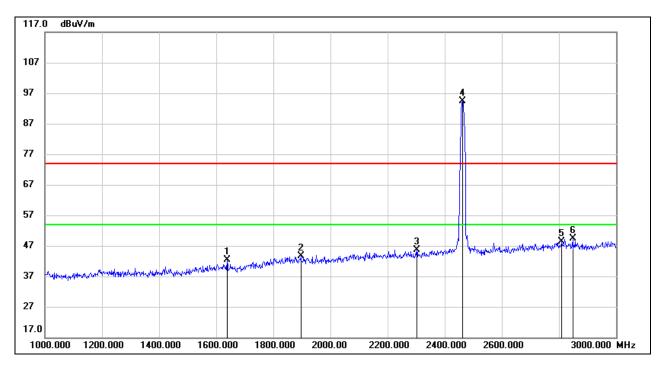


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1964.000	34.13	10.14	44.27	74.00	-29.73	peak
2	2060.000	33.77	10.72	44.49	74.00	-29.51	peak
3	2270.000	34.12	11.32	45.44	74.00	-28.56	peak
4	2462.000	79.85	12.29	92.14	/	/	fundamental
5	2822.000	34.44	13.82	48.26	74.00	-25.74	peak
6	2858.000	34.89	13.92	48.81	74.00	-25.19	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



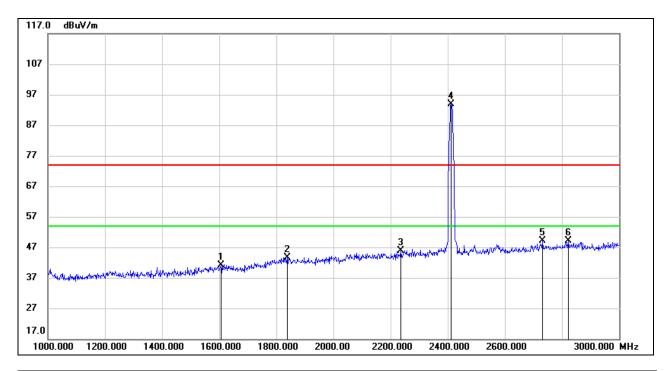
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1638.000	34.32	8.06	42.38	74.00	-31.62	peak
2	1896.000	33.55	9.96	43.51	74.00	-30.49	peak
3	2302.000	34.33	11.34	45.67	74.00	-28.33	peak
4	2462.000	82.04	12.29	94.33	/	/	fundamental
5	2810.000	34.52	13.79	48.31	74.00	-25.69	peak
6	2848.000	35.50	13.89	49.39	74.00	-24.61	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.3.3. 802.11n HT20 MODE

HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, HORIZONTAL)

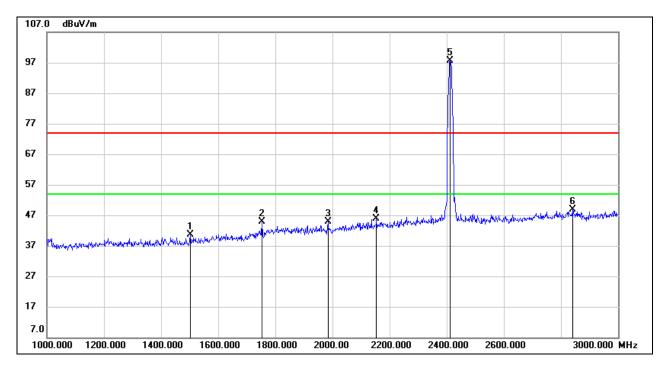


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1606.000	33.24	7.99	41.23	74.00	-32.77	peak
2	1838.000	33.84	9.85	43.69	74.00	-30.31	peak
3	2236.000	34.66	11.32	45.98	74.00	-28.02	peak
4	2412.000	81.78	12.08	93.86	/	/	fundamental
5	2732.000	35.88	13.25	49.13	74.00	-24.87	peak
6	2822.000	35.23	13.82	49.05	74.00	-24.95	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 1, VERTICAL)

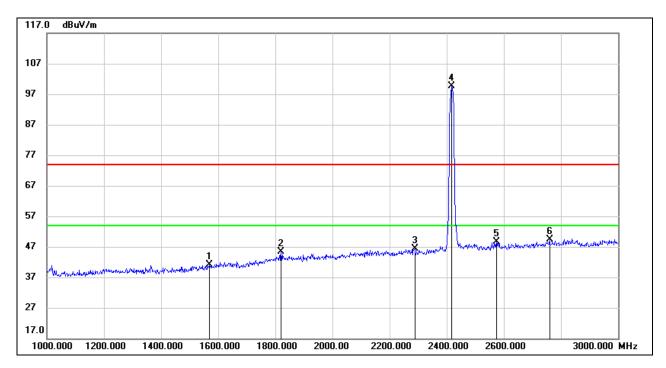


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1502.000	33.58	6.99	40.57	74.00	-33.43	peak
2	1754.000	35.76	9.06	44.82	74.00	-29.18	peak
3	1984.000	34.77	10.21	44.98	74.00	-29.02	peak
4	2154.000	34.67	11.19	45.86	74.00	-28.14	peak
5	2412.000	85.50	12.08	97.58	/	/	fundamental
6	2842.000	34.91	13.87	48.78	74.00	-25.22	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, HORIZONTAL)

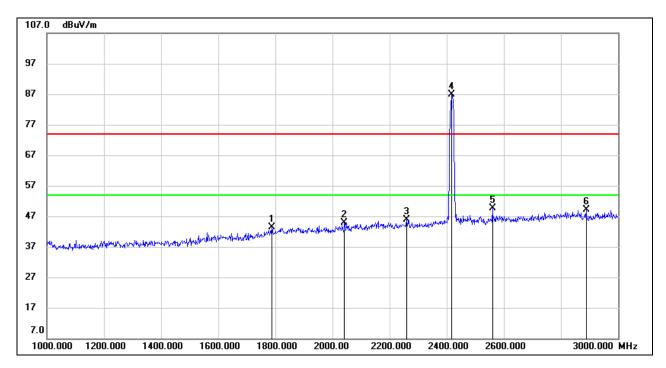


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1570.000	33.54	7.67	41.21	74.00	-32.79	peak
2	1820.000	35.47	9.82	45.29	74.00	-28.71	peak
3	2288.000	35.11	11.32	46.43	74.00	-27.57	peak
4	2417.000	87.46	12.10	99.56	/	/	fundamental
5	2574.000	36.32	12.42	48.74	74.00	-25.26	peak
6	2760.000	35.92	13.46	49.38	74.00	-24.62	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 2, VERTICAL)

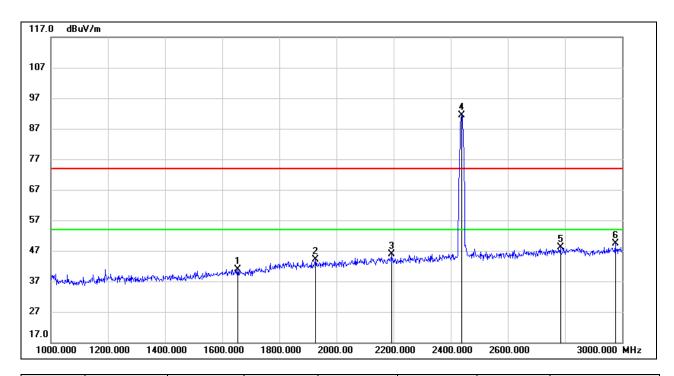


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1788.000	33.88	9.60	43.48	74.00	-30.52	peak
2	2042.000	34.41	10.58	44.99	74.00	-29.01	peak
3	2260.000	34.56	11.32	45.88	74.00	-28.12	peak
4	2417.000	74.70	12.10	86.80	/	/	fundamental
5	2560.000	37.21	12.43	49.64	74.00	-24.36	peak
6	2888.000	35.07	14.00	49.07	74.00	-24.93	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, HORIZONTAL)

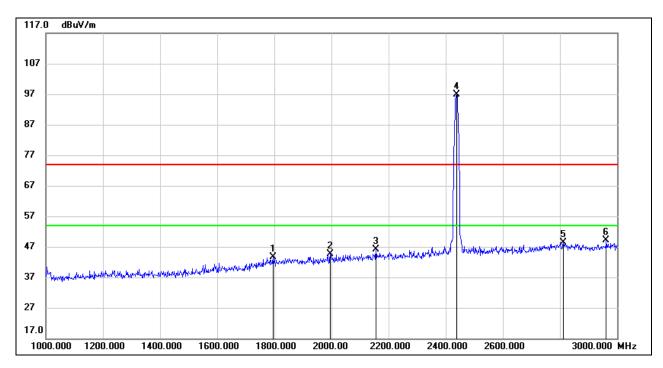


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1654.000	32.82	8.11	40.93	74.00	-33.07	peak
2	1926.000	34.21	10.04	44.25	74.00	-29.75	peak
3	2192.000	34.59	11.30	45.89	74.00	-28.11	peak
4	2437.000	79.27	12.19	91.46	/	/	fundamental
5	2784.000	34.50	13.63	48.13	74.00	-25.87	peak
6	2976.000	34.88	14.52	49.40	74.00	-24.60	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 6, VERTICAL)

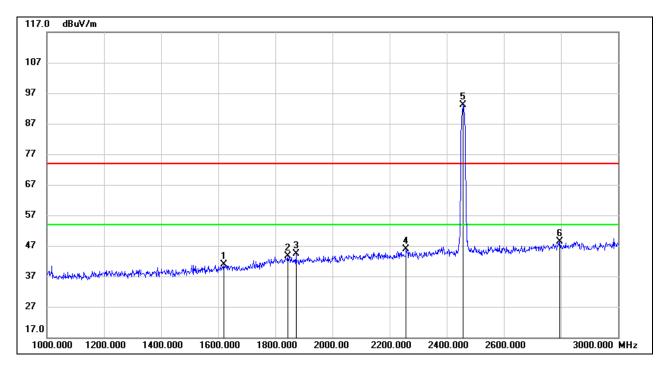


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1796.000	33.94	9.72	43.66	74.00	-30.34	peak
2	1996.000	34.38	10.24	44.62	74.00	-29.38	peak
3	2156.000	34.87	11.19	46.06	74.00	-27.94	peak
4	2437.000	84.74	12.19	96.93	/	/	fundamental
5	2812.000	34.65	13.79	48.44	74.00	-25.56	peak
6	2962.000	34.59	14.44	49.03	74.00	-24.97	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, HORIZONTAL)

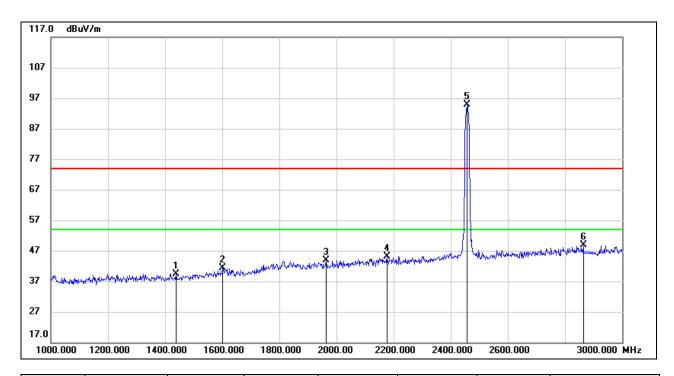


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1620.000	32.78	8.02	40.80	74.00	-33.20	peak
2	1844.000	33.80	9.87	43.67	74.00	-30.33	peak
3	1872.000	34.36	9.92	44.28	74.00	-29.72	peak
4	2258.000	34.56	11.32	45.88	74.00	-28.12	peak
5	2457.000	80.89	12.26	93.15	/	/	fundamental
6	2796.000	34.56	13.74	48.30	74.00	-25.70	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 10, VERTICAL)

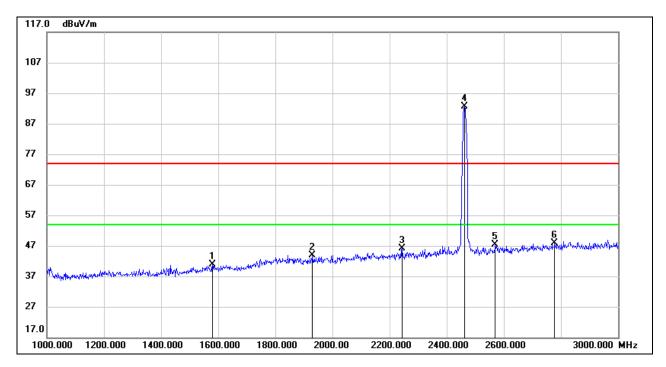


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1438.000	32.62	6.79	39.41	74.00	-34.59	peak
2	1602.000	33.28	7.99	41.27	74.00	-32.73	peak
3	1964.000	33.83	10.14	43.97	74.00	-30.03	peak
4	2176.000	33.93	11.25	45.18	74.00	-28.82	peak
5	2457.000	82.61	12.26	94.87	/	/	fundamental
6	2864.000	34.89	13.94	48.83	74.00	-25.17	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, HORIZONTAL)

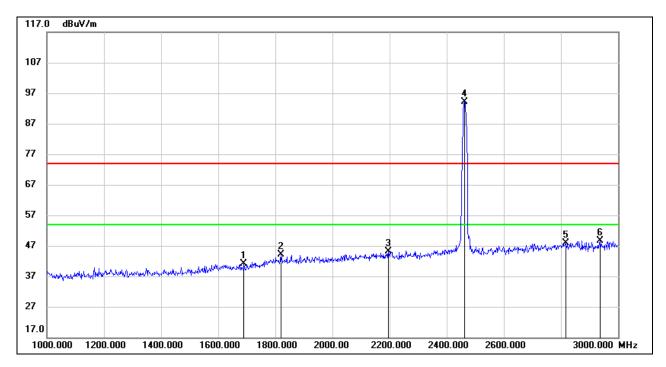


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1580.000	33.18	7.77	40.95	74.00	-33.05	peak
2	1930.000	33.90	10.05	43.95	74.00	-30.05	peak
3	2244.000	34.90	11.33	46.23	74.00	-27.77	peak
4	2462.000	80.29	12.29	92.58	/	/	fundamental
5	2570.000	34.95	12.42	47.37	74.00	-26.63	peak
6	2778.000	34.24	13.59	47.83	74.00	-26.17	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



HARMONICS AND SPURIOUS EMISSIONS (CHANNEL 11, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	1690.000	33.01	8.18	41.19	74.00	-32.81	peak
2	1820.000	34.39	9.82	44.21	74.00	-29.79	peak
3	2196.000	33.91	11.31	45.22	74.00	-28.78	peak
4	2462.000	81.93	12.29	94.22	/	/	fundamental
5	2816.000	34.17	13.81	47.98	74.00	-26.02	peak
6	2938.000	34.36	14.28	48.64	74.00	-25.36	peak

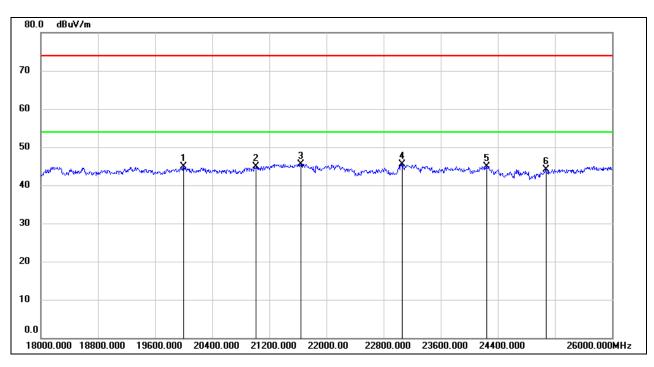
- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band Reject Filter losses.
 - 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.



8.4. SPURIOUS EMISSIONS (18~26GHz)

8.4.1. 802.11 b MODE

SPURIOUS EMISSIONS (CHANNEL 1, WORST-CASE CONFIGURATION, HORIZONTAL)

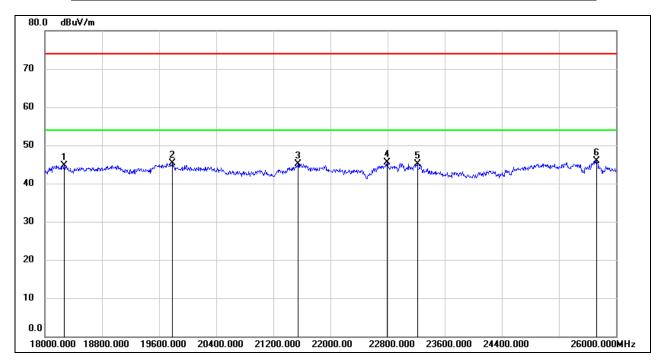


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	20000.000	50.31	-5.45	44.86	74.00	-29.14	peak
2	21016.000	49.87	-4.88	44.99	74.00	-29.01	peak
3	21640.000	50.07	-4.49	45.58	74.00	-28.42	peak
4	23064.000	48.99	-3.42	45.57	74.00	-28.43	peak
5	24248.000	47.82	-2.83	44.99	74.00	-29.01	peak
6	25072.000	46.17	-1.97	44.20	74.00	-29.80	peak

- 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
- 3. Peak: Peak detector.
- 4. The preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.



SPURIOUS EMISSIONS (CHANNEL 1, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	18272.000	50.20	-5.53	44.67	74.00	-29.33	peak
2	19784.000	50.57	-5.28	45.29	74.00	-28.71	peak
3	21544.000	49.76	-4.63	45.13	74.00	-28.87	peak
4	22792.000	49.11	-3.65	45.46	74.00	-28.54	peak
5	23216.000	48.51	-3.38	45.13	74.00	-28.87	peak
6	25728.000	46.61	-0.72	45.89	74.00	-28.11	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 preamplifier only effect to the above 18GHz signal and no filter added to the measurement chain.



8.5. SPURIOUS EMISSIONS (0.03 ~ 1 GHz)

8.5.1. 802.11b MODE

SPURIOUS EMISSIONS (CHANNEL 1, WORST-CASE CONFIGURATION, HORIZONTAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	33.8800	45.13	-17.33	27.80	40.00	-12.20	QP
2	67.8300	46.45	-19.69	26.76	40.00	-13.24	QP
3	132.8200	39.90	-19.50	20.40	43.50	-23.10	QP
4	211.3900	35.30	-16.96	18.34	43.50	-25.16	QP
5	653.7100	43.62	-7.92	35.70	46.00	-10.30	QP
6	707.0600	40.43	-6.82	33.61	46.00	-12.39	QP

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

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



SPURIOUS EMISSIONS (CHANNEL 1, WORST-CASE CONFIGURATION, VERTICAL)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	67.8300	48.21	-19.69	28.52	40.00	-11.48	QP
2	131.8500	50.22	-19.54	30.68	43.50	-12.82	QP
3	211.3900	52.83	-16.96	35.87	43.50	-7.63	QP
4	604.2400	42.22	-8.75	33.47	46.00	-12.53	QP
5	669.2300	40.07	-7.62	32.45	46.00	-13.55	QP
6	791.4500	33.62	-5.79	27.83	46.00	-18.17	QP

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

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

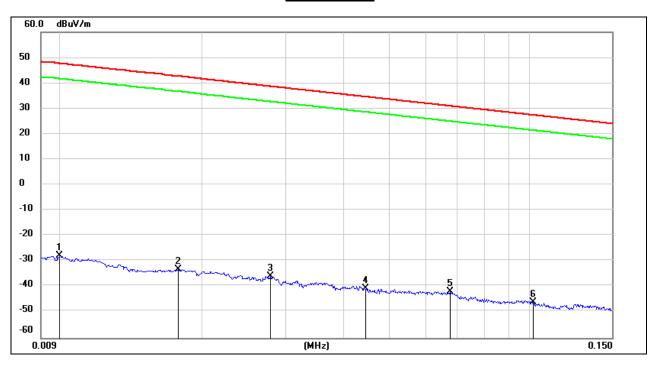


8.6. SPURIOUS EMISSIONS BELOW 30M

8.6.1. 802.11b MODE

SPURIOUS EMISSIONS (CHANNEL 1, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9kHz~ 150kHz

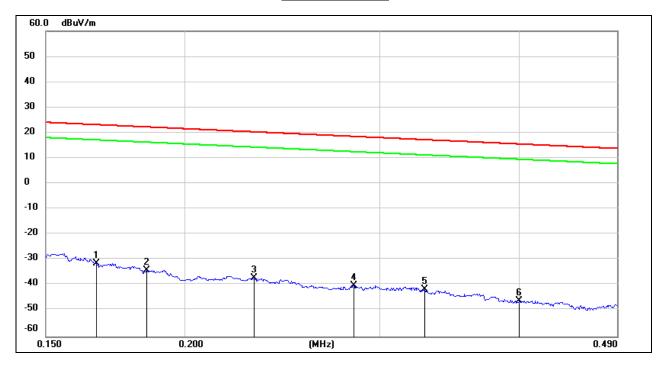


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.0100	73.72	-101.40	-27.68	47.60	-75.28	peak
2	0.0177	68.12	-101.35	-33.23	42.64	-75.87	peak
3	0.0279	65.67	-101.38	-35.71	38.69	-74.40	peak
4	0.0446	60.66	-101.45	-40.79	34.61	-75.40	peak
5	0.0675	59.64	-101.56	-41.92	31.02	-72.94	peak
6	0.1019	55.85	-101.79	-45.94	27.44	-73.38	peak

- 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.



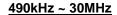


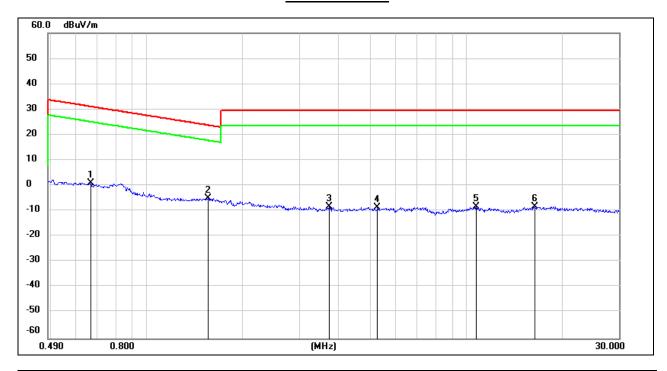


No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.1665	70.23	-101.66	-31.43	23.18	-54.61	peak
2	0.1847	67.61	-101.70	-34.09	22.28	-56.37	peak
3	0.2308	64.83	-101.77	-36.94	20.34	-57.28	peak
4	0.2837	61.72	-101.83	-40.11	18.54	-58.65	peak
5	0.3286	60.21	-101.88	-41.67	17.27	-58.94	peak
6	0.4001	55.95	-101.96	-46.01	15.56	-61.57	peak

- 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.







No.	Frequency	Reading	Correct	FCC Result	FCC Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	0.6671	63.25	-62.10	1.15	31.12	-29.97	peak
2	1.5564	57.18	-62.02	-4.84	23.76	-28.60	peak
3	3.7100	53.20	-61.41	-8.21	29.54	-37.75	peak
4	5.2705	53.04	-61.45	-8.41	29.54	-37.95	peak
5	10.7299	52.48	-60.83	-8.35	29.54	-37.89	peak
6	16.3959	52.67	-60.96	-8.29	29.54	-37.83	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.



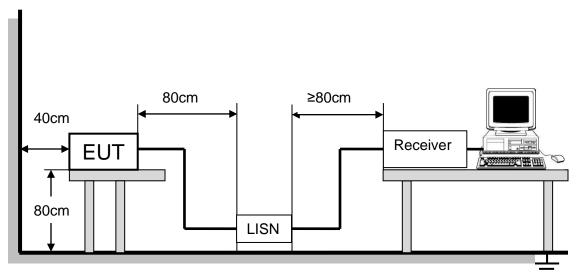
9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8.

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 6.2 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

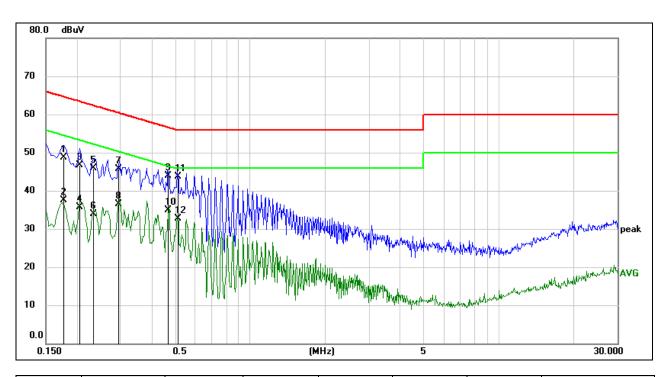
Temperature	24.3°C	Relative Humidity	67.2%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz



TEST RESULTS

9.1. 802.11b MODE

LINE N RESULTS (CHANNEL 1, WORST-CASE CONFIGURATION)



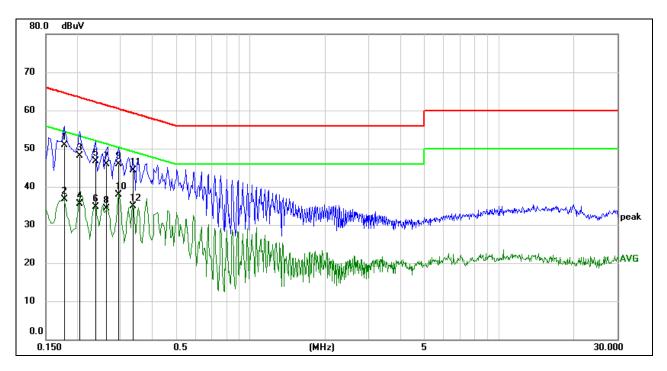
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1760	39.16	9.60	48.76	64.67	-15.91	QP
2	0.1760	27.89	9.60	37.49	54.67	-17.18	AVG
3	0.2044	37.19	9.60	46.79	63.43	-16.64	QP
4	0.2044	26.08	9.60	35.68	53.43	-17.75	AVG
5	0.2334	36.28	9.60	45.88	62.33	-16.45	QP
6	0.2334	24.32	9.60	33.92	52.33	-18.41	AVG
7	0.2933	36.11	9.60	45.71	60.43	-14.72	QP
8	0.2933	26.91	9.60	36.51	50.43	-13.92	AVG
9	0.4687	34.31	9.60	43.91	56.54	-12.63	QP
10	0.4687	25.33	9.60	34.93	46.54	-11.61	AVG
11	0.5116	34.01	9.60	43.61	56.00	-12.39	QP
12	0.5116	23.14	9.60	32.74	46.00	-13.26	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 (CHANNEL 1, WORST-CASE CONFIGURATION)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1771	41.37	9.61	50.98	64.62	-13.64	QP
2	0.1771	27.18	9.61	36.79	54.62	-17.83	AVG
3	0.2040	38.42	9.60	48.02	63.45	-15.43	QP
4	0.2040	25.98	9.60	35.58	53.45	-17.87	AVG
5	0.2373	37.07	9.60	46.67	62.19	-15.52	QP
6	0.2373	25.03	9.60	34.63	52.19	-17.56	AVG
7	0.2628	36.27	9.60	45.87	61.34	-15.47	QP
8	0.2628	24.66	9.60	34.26	51.34	-17.08	AVG
9	0.2948	36.31	9.60	45.91	60.39	-14.48	QP
10	0.2948	28.25	9.60	37.85	50.39	-12.54	AVG
11	0.3371	34.75	9.60	44.35	59.27	-14.92	QP
12	0.3371	25.37	9.60	34.97	49.27	-14.30	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.



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10. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203

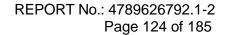
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply 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





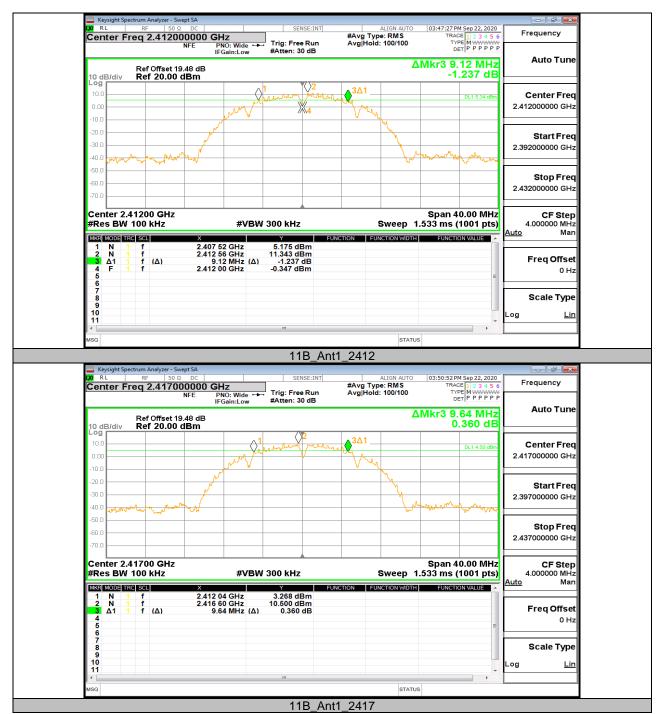
11. Appendix

11.1. Appendix A: DTS Bandwidth 11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
	2412	9.120	2407.520	2416.640	0.5	PASS	
		2417	9.640	2412.040	2421.680	0.5	PASS
11B Ant1	2437	9.160	2432.600	2441.760	0.5	PASS	
	2457	9.120	2452.560	2461.680	0.5	PASS	
		2462	8.680	2457.560	2466.240	0.5	PASS
11G Ant1	2412	16.400	2403.920	2420.320	0.5	PASS	
		2417	16.440	2408.880	2425.320	0.5	PASS
	2437	16.400	2428.960	2445.360	0.5	PASS	
	2457	16.400	2448.920	2465.320	0.5	PASS	
	2462	16.440	2453.880	2470.320	0.5	PASS	
11N20SISO Ant1	2412	17.600	2403.280	2420.880	0.5	PASS	
		2417	17.640	2408.280	2425.920	0.5	PASS
	Ant1	2437	17.600	2428.360	2445.960	0.5	PASS
		2457	17.680	2448.280	2465.960	0.5	PASS
		2462	17.640	2453.280	2470.920	0.5	PASS



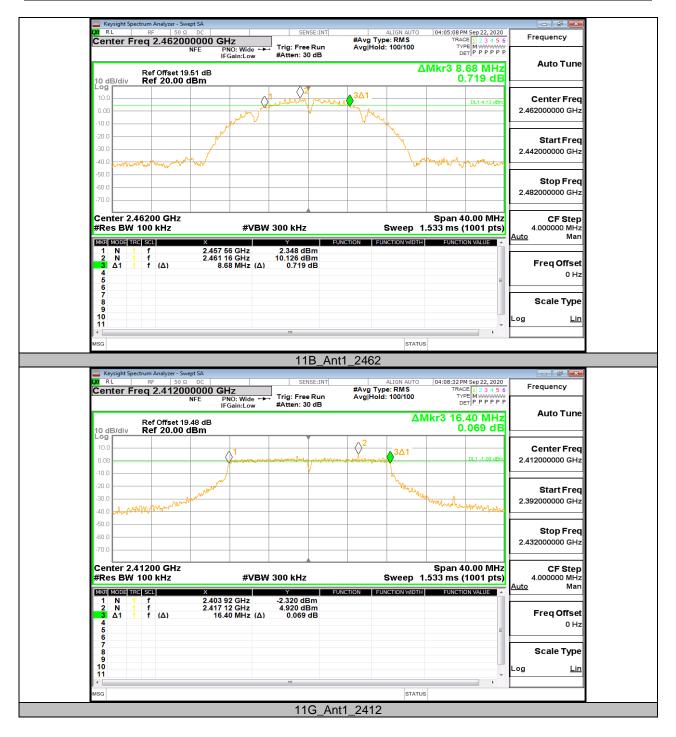
11.1.2. Test Graphs











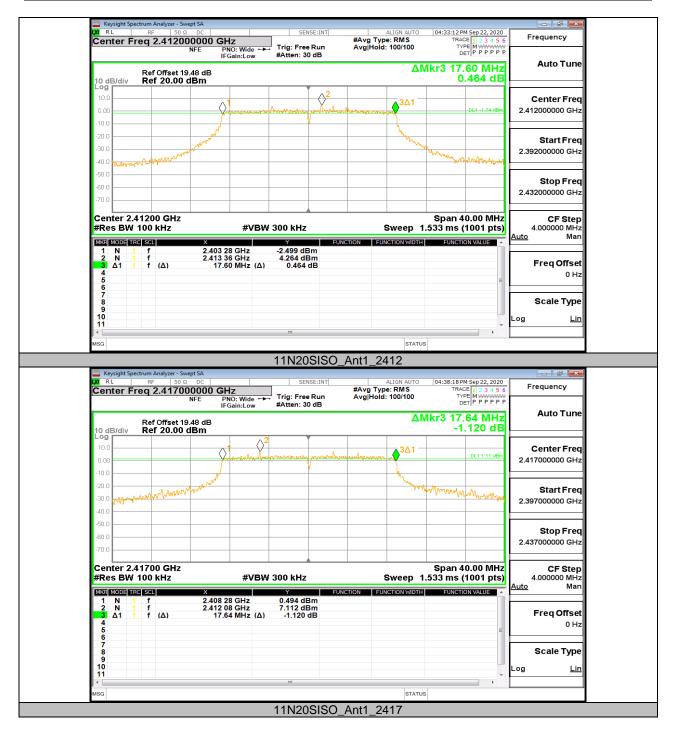


















04:52:56 PM Sep 22, 2020 TRACE 1 2 3 4 5 6 #Avg Type: RMS Avg|Hold: 100/100 Frequency Trig: Free Run #Atten: 30 dB **Auto Tune** ΔMkr3 17.64 MHz 1.375 dB Ref Offset 19.51 dB Ref 20.00 dBm \Diamond^2 Center Freq 2.462000000 GHz Start Freq 2.442000000 GHz Stop Freq 2.482000000 GHz Center 2.46200 GHz #Res BW 100 kHz CF Step 4.000000 MHz Man Span 40.00 MHz **#VBW** 300 kHz Sweep 1.533 ms (1001 pts) -4.946 dBm 3.290 dBm 1.375 dB 2.453 28 GHz 2.463 36 GHz 17.64 MHz (Δ) 1 N 2 N 3 Δ1 f f (Δ) Freq Offset Scale Type <u>Lin</u> STATUS

11N20SISO_Ant1_2462



11.2. Appendix B: Occupied Channel Bandwidth 11.2.1. Test Result

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
		2412	14.092	2405.029	2419.121	PASS
		2417	14.084	2410.062	2424.146	PASS
11B	Ant1	2437	14.100	2430.090	2444.190	PASS
		2457	14.111	2450.081	2464.192	PASS
		2462	14.123	2455.091	2469.214	PASS
11G	Ant1	2412	17.283	2403.480	2420.763	PASS
		2417	17.303	2408.501	2425.804	PASS
		2437	17.720	2428.356	2446.076	PASS
		2457	17.554	2448.413	2465.967	PASS
		2462	17.216	2453.505	2470.721	PASS
11N20SISO		2412	18.222	2402.998	2421.220	PASS
		2417	18.289	2408.012	2426.301	PASS
	Ant1	2437	18.767	2427.813	2446.580	PASS
		2457	18.332	2447.998	2466.330	PASS
		2462	18.282	2453.005	2471.287	PASS



11.2.2. Test Graphs

