

FCC Test Report

Report No.: RF160819C08

FCC ID: UDX-60057010

Test Model: MR74-HW

Received Date: Aug. 19, 2016

Test Date: Aug. 31 ~ Nov. 24, 2016

Issued Date: Dec. 05, 2016

Applicant: Cisco Systems, Inc.

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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes	10
3.2.1 Test Mode Applicability and Tested Channel Detail	11
3.3 Duty Cycle of Test Signal	13
3.4 Description of Support Units	15
3.4.1 Configuration of System under Test	15
3.5 General Description of Applied Standards	15
4 Test Types and Results	16
4.1 Radiated Emission and Bandedge Measurement	16
4.1.1 Limits of Radiated Emission and Bandedge Measurement	16
4.1.2 Test Instruments	17
4.1.3 Test Procedures	18
4.1.4 Deviation from Test Standard	18
4.1.5 Test Setup	19
4.1.6 EUT Operating Conditions	20
4.1.7 Test Results	21
4.2 Conducted Emission Measurement	99
4.2.1 Limits of Conducted Emission Measurement	99
4.2.2 Test Instruments	99
4.2.3 Test Procedures	100
4.2.4 Deviation from Test Standard	100
4.2.5 Test Setup	100
4.2.6 EUT Operating Conditions	100
4.2.7 Test Results	101
4.3 6dB Bandwidth Measurement	113
4.3.1 Limits of 6dB Bandwidth Measurement	113
4.3.2 Test Setup	113
4.3.3 Test Instruments	113
4.3.4 Test Procedure	113
4.3.5 Deviation from Test Standard	113
4.3.6 EUT Operating Conditions	113
4.3.7 Test Result	114
4.4 Conducted Output Power Measurement	126
4.4.1 Limits of Conducted Output Power Measurement	126
4.4.2 Test Setup	126
4.4.3 Test Instruments	126
4.4.4 Test Procedures	126
4.4.5 Deviation from Test Standard	126
4.4.6 EUT Operating Conditions	126
4.4.7 Test Results	127
4.5 Power Spectral Density Measurement	139
4.5.1 Limits of Power Spectral Density Measurement	139
4.5.2 Test Setup	139
4.5.3 Test Instruments	139
4.5.4 Test Procedure	139
4.5.5 Deviation from Test Standard	140
4.5.6 EUT Operating Condition	140

4.5.7 Test Results	141
4.6 Conducted Out of Band Emission Measurement.....	158
4.6.1 Limits of Conducted Out of Band Emission Measurement	158
4.6.2 Test Setup.....	158
4.6.3 Test Instruments	158
4.6.4 Test Procedure	158
4.6.5 Deviation from Test Standard	159
4.6.6 EUT Operating Condition	159
4.6.7 Test Results	159
5 Pictures of Test Arrangements.....	204
Appendix – Information on the Testing Laboratories	205

Release Control Record

Issue No.	Description	Date Issued
RF160819C08	Original release	Dec. 05, 2016

1 Certificate of Conformity

Product: AP Outdoor

Brand: Cisco

Test Model: MR74-HW

Sample Status: Engineering sample

Applicant: Cisco Systems, Inc.

Test Date: Aug. 31 ~ Nov. 24, 2016

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by : Sunt Lee , **Date:** Dec. 05, 2016
Sunt Lee / Specialist

Approved by : Ken Liu , **Date:** Dec. 05, 2016
Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -7.90dB at 13.58984MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2390.00, 2483.50MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	Pass	Meet the requirement of limit.
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	For Omni-direction, Sector, Patch antennas: Antenna connector is N-Type. (The device is professionally installed) For PIFA antenna: No antenna connector is used.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	AP Outdoor
Brand	Cisco
Test Model	MR74-HW
Sample Status	Engineering sample
Power Supply Rating	55Vdc (POE)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300Mbps
Operating Frequency	2412 ~ 2462MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
Output Power	Radio 1, Ant. No. 20: CDD Mode: 323.195mW Beamforming Mode: 142.098mW Radio 1, Ant. No. 23: CDD Mode: 306.725mW Beamforming Mode: 116.837mW Radio 1, Ant. No. 25: CDD Mode: 325.234mW Beamforming Mode: 158.185mW Radio 1, Ant. No. 27: CDD Mode: 294.210mW Beamforming Mode: 130.654mW Radio 1, Ant. No. AIR-ANT2513P4M-N: CDD Mode: 191.452mW Beamforming Mode: 92.945mW Radio 3: 240.991mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Antenna, 1m non-shielded ground cable w/o core
Data Cable Supplied	NA

Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

2.4GHz Band			
Modulation Mode	TX Function	Beamforming	Remark
802.11b	2TX	Not Support	Radio 1
802.11g	2TX	Not Support	
802.11n (HT20)	2TX	Support	
802.11n (HT40)	2TX	Support	
802.11b	1TX	Not Support	Radio 3
802.11g	1TX	Not Support	
802.11n (HT20)	1TX	Not Support	
802.11n (HT40)	1TX	Not Support	
5GHz Band			
Modulation Mode	TX Function	Beamforming	Remark
802.11a	2TX	Not Support	Radio 2
802.11n (HT20)	2TX	Support	
802.11n (HT40)	2TX	Support	
802.11ac (VHT20)	2TX	Support	
802.11ac (VHT40)	2TX	Support	
802.11ac (VHT80)	2TX	Support	
802.11a	1TX	Not Support	Radio 3
802.11n (HT20)	1TX	Not Support	
802.11n (HT40)	1TX	Not Support	
802.11ac (VHT20)	1TX	Not Support	
802.11ac (VHT40)	1TX	Not Support	
802.11ac (VHT80)	1TX	Not Support	

* For 802.11n and 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

2. The EUT consumes power from the following POE. (support unit only)

Brand	CISCO
Model	MA-INJ-4
Input Power	100-240Vac, 50/60Hz, 0.67A
Output Power	55Vdc, 0.6A
Power Line	1.4m non-shielded AC cable without core

3. The EUT uses following antennas.

Note: The EOT uses following antennas.														
Ant. No.		Ant. Type	Connector	Cable	Antenna Gain (dBi)								Remark	
					Frequency (GHz)									
					2.4		5							
20		Omni-directional	N-Type	-		4		7						Radio 1 (WLAN 2.4G), Radio 2 (WLAN 5G)
21		Sector	N-Type	0.35m coaxial X2		-		13						
23				0.35m coaxial X2		11		-						
25		Sector	N-Type	0.35m coaxial X2		8.1		7.1						
27		Sector	N-Plug	0.35m coaxial X2		9.8		11.3						
AIR-ANT2513 P4M-N		Patch	N-Female Bulkhead	3m coaxial X2		13		13						
Ant. No.	Ant. Type	Connector	Cable	Antenna Gain (dBi)										Remark
				Frequency (GHz)										
				2.4	2.45	2.5	4.9	5.15	5.35	5.475	5.725	5.875		
-	PIFA	NA	-	3.0	3.7	3.9	6.3	5.2	4.9	4.6	4.8	4.1	Radio 3 (WLAN 2.4G, 5G)	
-	PIFA	NA	-	5.3	5.6	4.6	-	-	-	-	-	-	Radio 4 (BT LE)	

* The 2.4GHz max. gain of PIFA antenna was chosen for final test.

* The 5GHz max. gain of PIFA antenna was chosen for final test.

4. 2.4GHz, 5GHz and BT LE technology can transmit at same time.

5. Spurious emission of the simultaneous operation (2.4GHz, 5GHz and BT LE) has been evaluated and no non-compliance was found.

3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency	Channel	Frequency
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	EUT with Omni-directional ant. (Ant. 20)
B	√	√	√	√	EUT with sector ant. (Ant. 23)
C	√	√	√	√	EUT with sector ant. (Ant. 25)
D	√	√	√	√	EUT with sector ant. (Ant. 27)
E	√	√	√	√	EUT with Patch ant. (AIR-ANT2513P4M-N)
F	√	√	√	√	EUT with PIFA ant.

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane.

Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Remark
A, B, C, D, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Radio 1 (2TX)
F		1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Radio 3 (1TX)
A, B, C, D, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Radio 1 (2TX)
F		1 to 11	1, 6, 11	DSSS	DBPSK	6.0	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Radio 1 (2TX)
F		1 to 11	1, 6, 11	DSSS	DBPSK	6.5	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	15.0	Radio 1 (2TX)
F		3 to 9	3, 6, 9	OFDM	BPSK	13.5	Radio 3 (1TX)

Radiated Emission Test (Below 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Remark
A, B, C, D, E	802.11b	1 to 11	6	DSSS	DBPSK	1.0	Radio 1 (2TX)
F	802.11b	1 to 11	6	DSSS	DBPSK	1.0	Radio 3 (1TX)

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Remark
A, B, C, D, E	802.11b	1 to 11	6	DSSS	DBPSK	1.0	Radio 1 (2TX)
F	802.11b	1 to 11	6	DSSS	DBPSK	1.0	Radio 3 (1TX)

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)	Remark
A, B, C, D, E	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Radio 1 (2TX)
F		1 to 11	1, 6, 11	DSSS	DBPSK	1.0	Radio 3 (1TX)
A, B, C, D, E	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	Radio 1 (2TX)
F		1 to 11	1, 6, 11	DSSS	DBPSK	6.0	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	7.2	Radio 1 (2TX)
F		1 to 11	1, 6, 11	DSSS	DBPSK	6.5	Radio 3 (1TX)
A, B, C, D, E	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	15.0	Radio 1 (2TX)
F		3 to 9	3, 6, 9	OFDM	BPSK	13.5	Radio 3 (1TX)

Test Condition:

Applicable to	Environmental Conditions	Input Power (System)	Tested by
RE $\geq$ 1G	19 deg. C, 70% RH 18 deg. C, 70% RH	120Vac, 60Hz	Jones Chang James Yang Nick Hsu
RE<1G	16 deg. C, 70% RH	120Vac, 60Hz	Nick Hsu
PLC	20 deg. C, 70% RH	120Vac, 60Hz	Jones Chang
APCM	16 deg. C, 70% RH	120Vac, 60Hz	Nick Hsu

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

Duty cycle of test signal is $< 98\%$, duty factor is required.

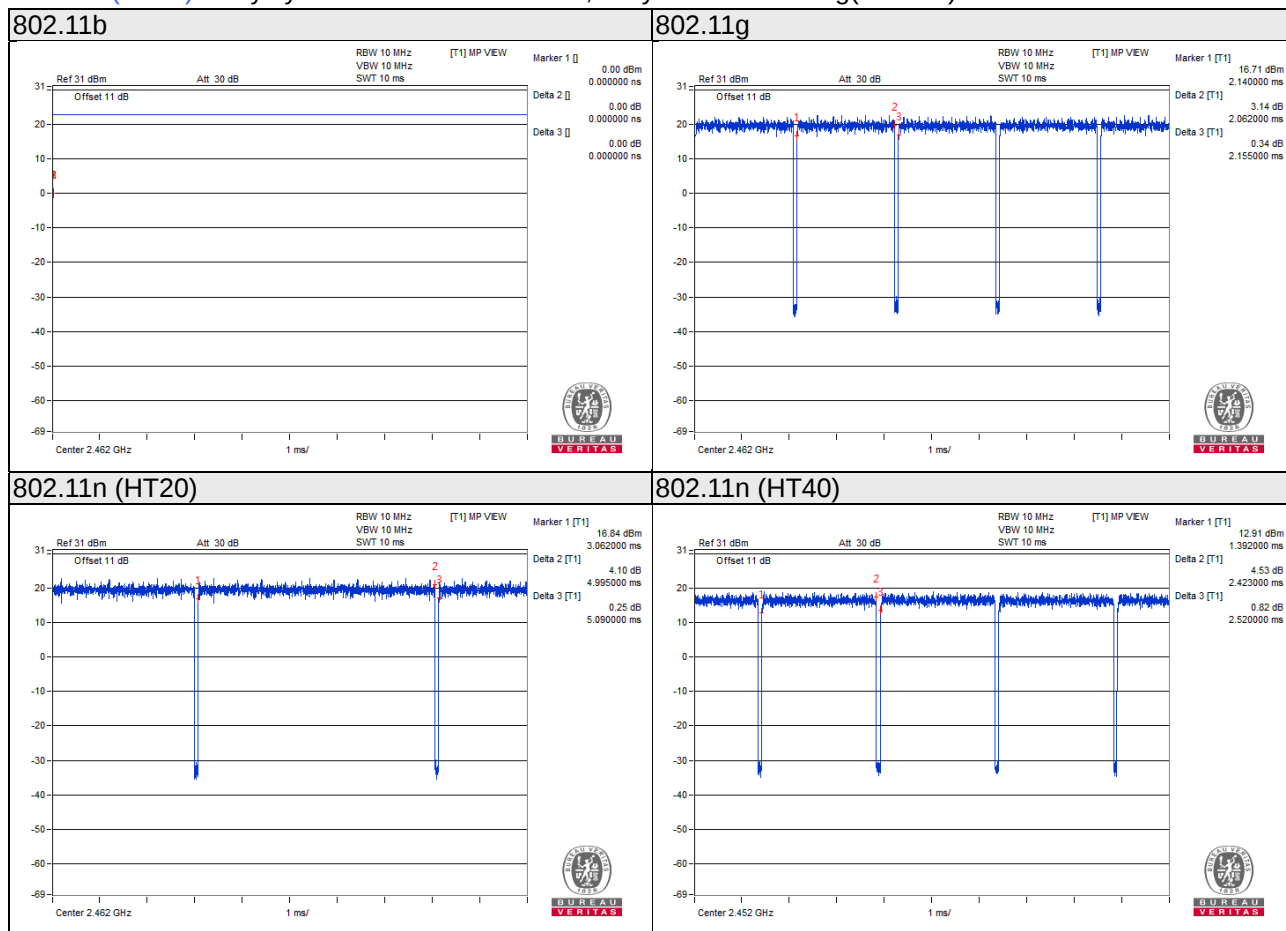
Radio 1

802.11b: Duty cycle = 100%

802.11g: Duty cycle = $2.062/2.155 = 0.957$, Duty factor = $10 * \log(1/0.957) = 0.19$

802.11n (HT20): Duty cycle = $4.995/5.09 = 0.981$

802.11n (HT40): Duty cycle = $2.423/2.52 = 0.962$, Duty factor = $10 * \log(1/0.962) = 0.17$



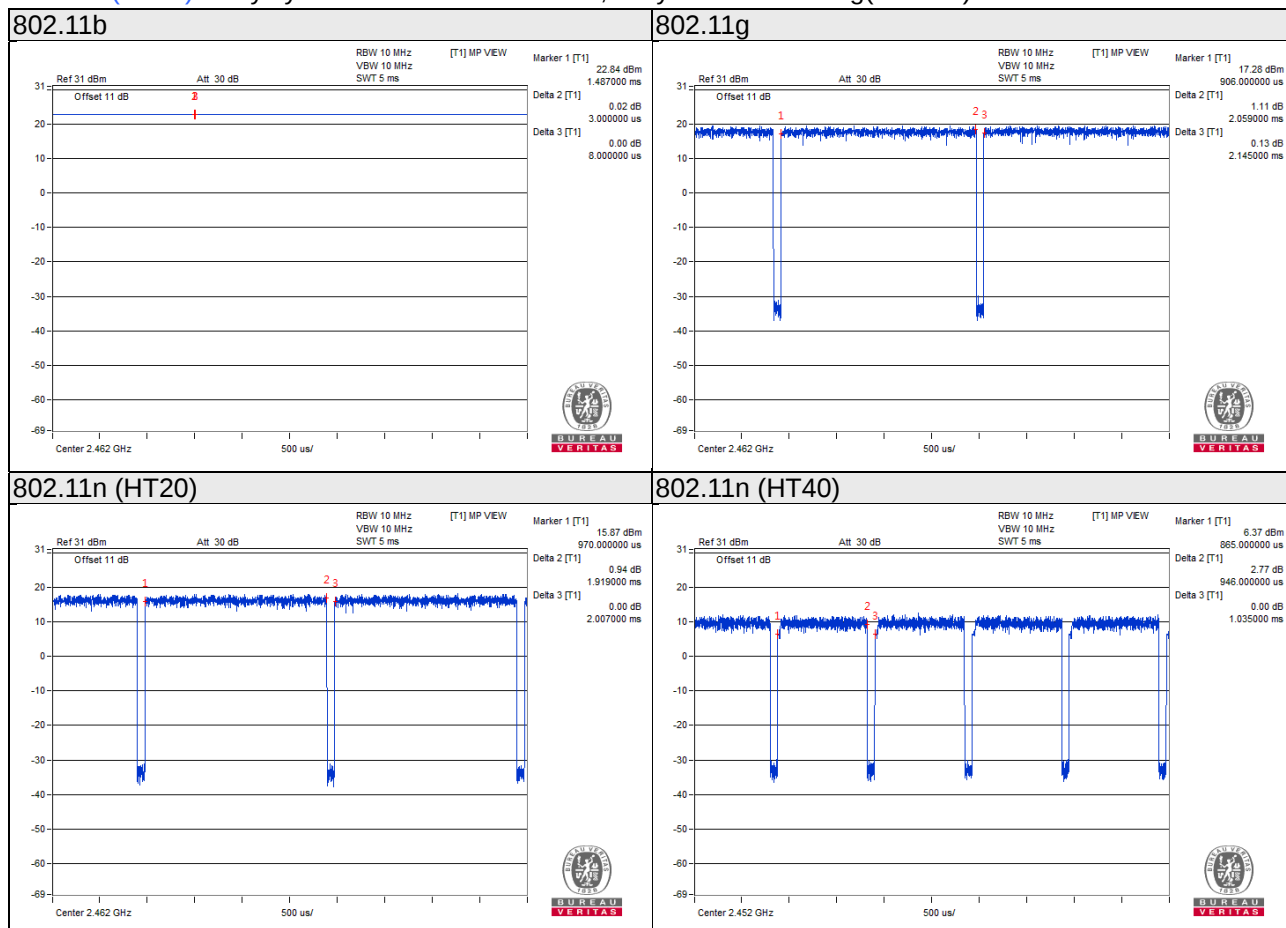
Radio 3

802.11b: Duty cycle = 100%

802.11g: Duty cycle = $2.059/2.145 = 0.960$, Duty factor = $10 * \log(1/0.960) = 0.18$

802.11n (HT20): Duty cycle = $1.919/2.007 = 0.956$, Duty factor = $10 * \log(1/0.956) = 0.20$

802.11n (HT40): Duty cycle = $0.946/1.035 = 0.914$, Duty factor = $10 * \log(1/0.914) = 0.93$



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

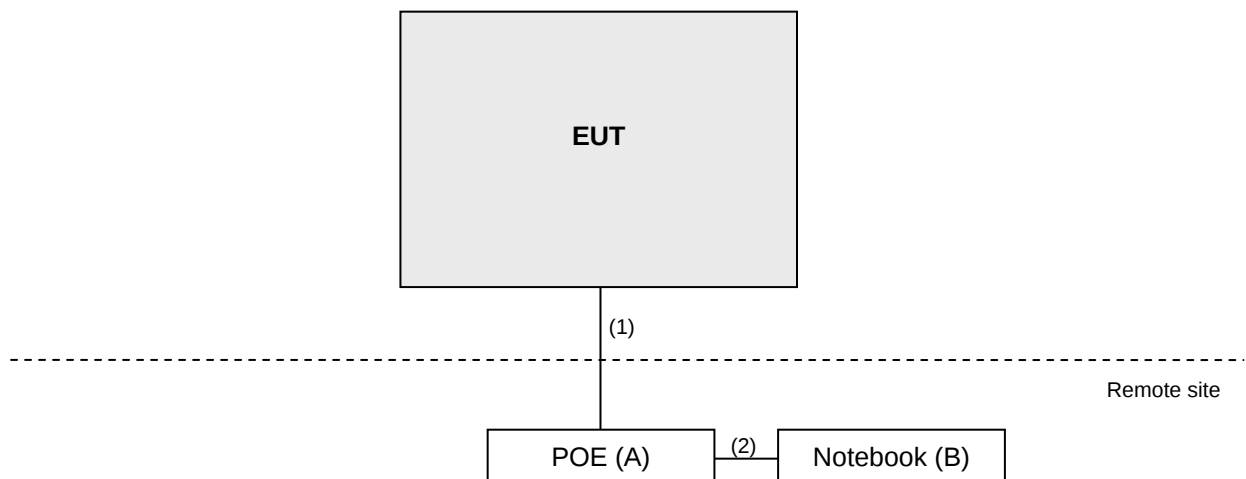
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	POE	CISCO	MA-INJ-4	N/A	N/A	Provided by manufacturer
B.	Notebook	DELL	Latitude E6420	HPFC5Q1	FCC DoC Approved	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item B acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ45, Cat5e	1	3	N	0	-
2.	RJ45, Cat5e	1	1.8	N	0	-

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)
KDB 558074 D01 DTS Meas Guidance v03r05
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30dB (average power for test mode A, B, C, D, E) / 20dB (peak power for test mode F) below the highest level of the desired power:

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

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 30dB / 20dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Apr. 18, 2016	Apr. 17, 2017
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Sep. 02, 2015	Sep. 01, 2016
			Sep. 02, 2016	Sep. 01, 2017
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	9120D	209	Jan. 20, 2016	Jan. 19, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Jan. 18, 2016	Jan. 17, 2017
Loop Antenna	EM-6879	269	Aug. 11, 2016	Aug. 10, 2017
Preamplifier Agilent	8447D	2944A10738	Aug. 22, 2016	Aug. 21, 2017
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (214378)	Aug. 22, 2016	Aug. 21, 2017
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03 (309224+12738)	Aug. 22, 2016	Aug. 21, 2017
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
High Speed Peak Power Meter	ML2495A	0824011	Jul. 09, 2016	Jul. 08, 2017
Power Sensor	MA2411B	0738171	Aug. 11, 2016	Aug. 10, 2017

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 988962.
5. The IC Site Registration No. is IC 7450F-3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

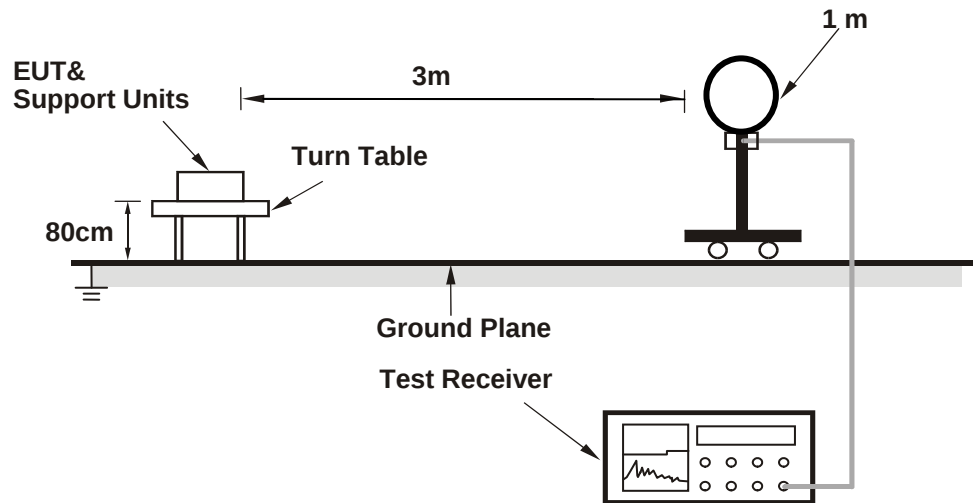
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

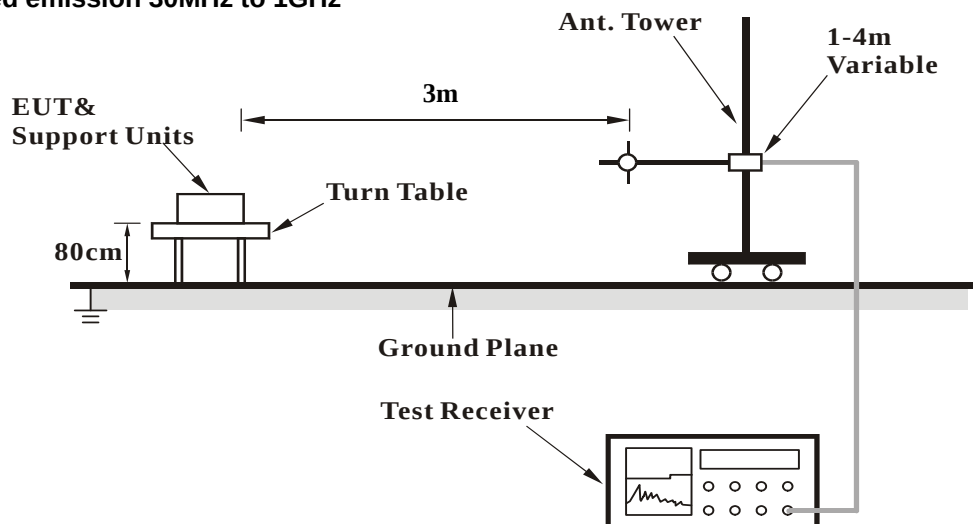
No deviation.

4.1.5 Test Setup

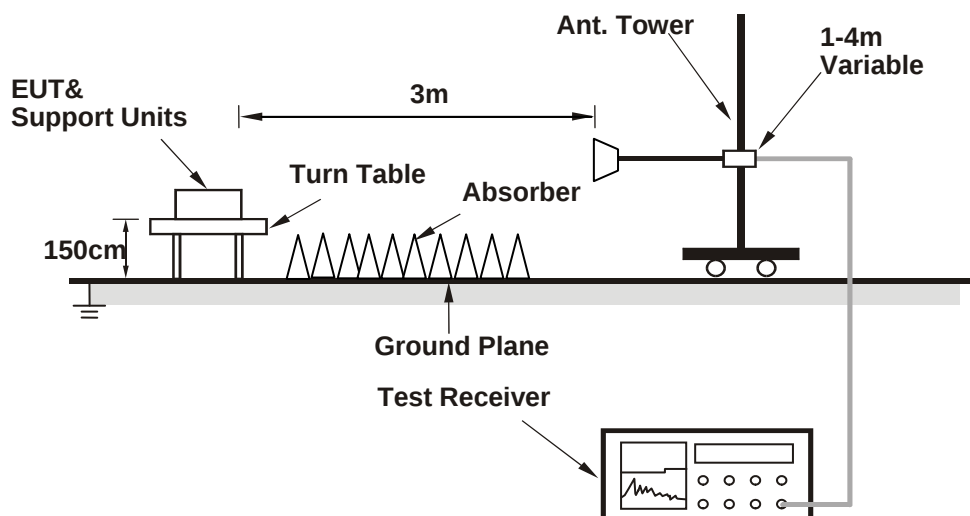
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
- The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Test Mode A

Above 1GHz worst-Case data:

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	54.2 PK	74.0	-19.8	1.62 H	293	23.3	30.9
2	2390.00	43.5 AV	54.0	-10.5	1.62 H	293	12.6	30.9
3	*2412.00	101.6 PK			1.62 H	293	70.5	31.1
4	*2412.00	97.8 AV			1.62 H	293	66.7	31.1
5	4824.00	50.5 PK	74.0	-23.5	1.25 H	296	46.0	4.5
6	4824.00	43.8 AV	54.0	-10.2	1.25 H	296	39.3	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.4 PK	74.0	-14.6	1.84 V	185	28.5	30.9
2	2390.00	52.6 AV	54.0	-1.4	1.84 V	185	21.7	30.9
3	*2412.00	114.8 PK			2.01 V	173	83.7	31.1
4	*2412.00	111.1 AV			2.01 V	176	80.0	31.1
5	4824.00	50.8 PK	74.0	-23.2	1.36 V	349	46.3	4.5
6	4824.00	44.4 AV	54.0	-9.6	1.36 V	349	39.9	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.6 PK			1.46 H	295	73.5	31.1
2	*2437.00	101.8 AV			1.46 H	295	70.7	31.1
3	4874.00	53.0 PK	74.0	-21.0	1.28 H	295	48.4	4.6
4	4874.00	48.2 AV	54.0	-5.8	1.28 H	295	43.6	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.3 PK			2.27 V	353	86.2	31.1
2	*2437.00	113.0 AV			2.27 V	353	81.9	31.1
3	4874.00	53.3 PK	74.0	-20.7	1.70 V	10	48.7	4.6
4	4874.00	48.5 AV	54.0	-5.5	1.70 V	10	43.9	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.8 PK			2.15 H	295	71.6	31.2
2	*2462.00	98.9 AV			2.15 H	295	67.7	31.2
3	2483.50	53.9 PK	74.0	-20.1	2.15 H	295	22.6	31.3
4	2483.50	43.4 AV	54.0	-10.6	2.15 H	295	12.1	31.3
5	4924.00	50.9 PK	74.0	-23.1	1.24 H	294	46.4	4.5
6	4924.00	45.4 AV	54.0	-8.6	1.24 H	294	40.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.7 PK			2.18 V	351	84.5	31.2
2	*2462.00	111.6 AV			2.18 V	351	80.4	31.2
3	2483.50	60.6 PK	74.0	-13.4	2.34 V	347	29.3	31.3
4	2483.50	52.8 AV	54.0	-1.2	2.34 V	347	21.5	31.3
5	4924.00	49.9 PK	74.0	-24.1	1.96 V	327	45.4	4.5
6	4924.00	43.9 AV	54.0	-10.1	1.96 V	327	39.4	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.80 H	22	26.7	30.9
2	2390.00	46.0 AV	54.0	-8.0	1.80 H	22	15.1	30.9
3	*2412.00	98.5 PK			1.91 H	217	67.4	31.1
4	*2412.00	88.7 AV			1.91 H	217	57.6	31.1
5	4824.00	47.5 PK	74.0	-26.5	1.58 H	324	43.0	4.5
6	4824.00	38.3 AV	54.0	-15.7	1.58 H	324	33.8	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.9 PK	74.0	-6.1	2.45 V	7	37.0	30.9
2	2390.00	52.5 AV	54.0	-1.5	2.45 V	7	21.6	30.9
3	*2412.00	113.8 PK			2.72 V	355	82.7	31.1
4	*2412.00	103.1 AV			2.72 V	355	72.0	31.1
5	4824.00	48.1 PK	74.0	-25.9	1.69 V	10	43.6	4.5
6	4824.00	37.9 AV	54.0	-16.1	1.69 V	10	33.4	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.7 PK	74.0	-18.3	2.07 H	33	24.8	30.9
2	2390.00	44.3 AV	54.0	-9.7	2.07 H	33	13.4	30.9
3	*2437.00	104.0 PK			1.70 H	217	72.9	31.1
4	*2437.00	94.6 AV			1.70 H	217	63.5	31.1
5	2483.50	57.3 PK	74.0	-16.7	1.99 H	40	26.0	31.3
6	2483.50	46.4 AV	54.0	-7.6	1.99 H	40	15.1	31.3
7	4874.00	52.4 PK	74.0	-21.6	1.54 H	320	47.8	4.6
8	4874.00	39.1 AV	54.0	-14.9	1.54 H	320	34.5	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.2 PK	74.0	-7.8	2.44 V	3	35.3	30.9
2	2390.00	53.0 AV	54.0	-1.0	2.44 V	3	22.1	30.9
3	*2437.00	117.5 PK			2.33 V	358	86.4	31.1
4	*2437.00	107.9 AV			2.33 V	358	76.8	31.1
5	2483.50	65.6 PK	74.0	-8.4	2.31 V	9	34.3	31.3
6	2483.50	51.5 AV	54.0	-2.5	2.31 V	9	20.2	31.3
7	4874.00	52.9 PK	74.0	-21.1	1.72 V	13	48.3	4.6
8	4874.00	40.5 AV	54.0	-13.5	1.72 V	13	35.9	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.8 PK			1.13 H	38	69.6	31.2
2	*2462.00	90.7 AV			1.13 H	38	59.5	31.2
3	2483.50	60.6 PK	74.0	-13.4	1.78 H	41	29.3	31.3
4	2483.50	46.3 AV	54.0	-7.7	1.78 H	41	15.0	31.3
5	4924.00	48.9 PK	74.0	-25.1	1.87 H	328	44.4	4.5
6	4924.00	39.5 AV	54.0	-14.5	1.87 H	328	35.0	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.6 PK			2.63 V	359	80.4	31.2
2	*2462.00	102.0 AV			2.63 V	359	70.8	31.2
3	2483.50	66.0 PK	74.0	-8.0	1.80 V	150	34.7	31.3
4	2483.50	52.3 AV	54.0	-1.7	1.80 V	150	21.0	31.3
5	4924.00	48.3 PK	74.0	-25.7	1.76 V	4	43.8	4.5
6	4924.00	39.3 AV	54.0	-14.7	1.76 V	4	34.8	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	1.64 H	48	27.3	30.9
2	2390.00	46.2 AV	54.0	-7.8	1.64 H	48	15.3	30.9
3	*2412.00	98.6 PK			1.92 H	214	67.5	31.1
4	*2412.00	88.7 AV			1.92 H	214	57.6	31.1
5	4824.00	46.2 PK	74.0	-27.8	2.25 H	295	41.7	4.5
6	4824.00	35.1 AV	54.0	-18.9	2.25 H	295	30.6	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.5 PK	74.0	-5.5	2.45 V	348	37.6	30.9
2	2390.00	53.0 AV	54.0	-1.0	2.45 V	348	22.1	30.9
3	*2412.00	113.1 PK			2.72 V	356	82.0	31.1
4	*2412.00	101.8 AV			2.72 V	356	70.7	31.1
5	4824.00	48.3 PK	74.0	-25.7	1.95 V	13	43.8	4.5
6	4824.00	38.4 AV	54.0	-15.6	1.95 V	13	33.9	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	1.70 H	50	27.3	30.9
2	2390.00	46.1 AV	54.0	-7.9	1.70 H	50	15.2	30.9
3	*2437.00	104.3 PK			1.83 H	215	73.2	31.1
4	*2437.00	94.8 AV			1.83 H	215	63.7	31.1
5	2483.50	56.9 PK	74.0	-17.1	2.00 H	293	25.6	31.3
6	2483.50	45.8 AV	54.0	-8.2	2.00 H	293	14.5	31.3
7	4874.00	47.5 PK	74.0	-26.5	2.12 H	0	42.9	4.6
8	4874.00	36.3 AV	54.0	-17.7	2.12 H	0	31.7	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.4 PK	74.0	-5.6	2.44 V	190	37.5	30.9
2	2390.00	52.9 AV	54.0	-1.1	2.44 V	190	22.0	30.9
3	*2437.00	118.6 PK			2.42 V	353	87.5	31.1
4	*2437.00	107.3 AV			2.42 V	353	76.2	31.1
5	2483.50	67.9 PK	74.0	-6.1	2.42 V	359	36.6	31.3
6	2483.50	51.9 AV	54.0	-2.1	2.42 V	359	20.6	31.3
7	4874.00	49.5 PK	74.0	-24.5	2.56 V	308	44.9	4.6
8	4874.00	39.2 AV	54.0	-14.8	2.56 V	308	34.6	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.6 PK			1.92 H	217	69.4	31.2
2	*2462.00	90.5 AV			1.92 H	217	59.3	31.2
3	2483.50	57.7 PK	74.0	-16.3	1.62 H	50	26.4	31.3
4	2483.50	45.2 AV	54.0	-8.8	1.62 H	50	13.9	31.3
5	4924.00	46.9 PK	74.0	-27.1	2.08 H	298	42.4	4.5
6	4924.00	35.5 AV	54.0	-18.5	2.08 H	298	31.0	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.7 PK			2.64 V	352	81.5	31.2
2	*2462.00	101.8 AV			2.64 V	352	70.6	31.2
3	2483.50	70.5 PK	74.0	-3.5	2.34 V	350	39.2	31.3
4	2483.50	52.9 AV	54.0	-1.1	2.34 V	350	21.6	31.3
5	4924.00	47.7 PK	74.0	-26.3	1.75 V	0	43.2	4.5
6	4924.00	36.8 AV	54.0	-17.2	1.75 V	0	32.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.5 PK	74.0	-16.5	1.66 H	45	26.6	30.9
2	2390.00	44.9 AV	54.0	-9.1	1.66 H	45	14.0	30.9
3	*2422.00	92.3 PK			1.92 H	215	61.2	31.1
4	*2422.00	83.3 AV			1.92 H	215	52.2	31.1
5	4804.00	46.1 PK	74.0	-27.9	2.11 H	321	41.7	4.4
6	4804.00	34.8 AV	54.0	-19.2	2.11 H	321	30.4	4.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.8 PK	74.0	-9.2	1.08 V	354	33.9	30.9
2	2390.00	52.4 AV	54.0	-1.6	1.08 V	354	21.5	30.9
3	*2422.00	105.1 PK			2.04 V	351	74.0	31.1
4	*2422.00	96.0 AV			2.04 V	351	64.9	31.1
5	4844.00	49.0 PK	74.0	-25.0	2.28 V	9	44.6	4.4
6	4844.00	37.9 AV	54.0	-16.1	2.28 V	9	33.5	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.5 PK	74.0	-18.5	2.02 H	30	24.6	30.9
2	2390.00	44.4 AV	54.0	-9.6	2.02 H	30	13.5	30.9
3	*2437.00	96.6 PK			1.43 H	52	65.5	31.1
4	*2437.00	87.2 AV			1.43 H	52	56.1	31.1
5	4874.00	47.7 PK	74.0	-26.3	2.02 H	330	43.1	4.6
6	4874.00	36.6 AV	54.0	-17.4	2.02 H	330	32.0	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	2.10 V	194	35.7	30.9
2	2390.00	52.4 AV	54.0	-1.6	2.10 V	194	21.5	30.9
3	*2437.00	108.0 PK			2.30 V	354	76.9	31.1
4	*2437.00	98.8 AV			2.30 V	354	67.7	31.1
5	4874.00	49.1 PK	74.0	-24.9	2.15 V	7	44.5	4.6
6	4874.00	38.3 AV	54.0	-15.7	2.15 V	7	33.7	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	97.1 PK			2.04 H	217	65.9	31.2
2	*2452.00	87.9 AV			2.04 H	217	56.7	31.2
3	2483.50	55.9 PK	74.0	-18.1	1.60 H	22	24.6	31.3
4	2483.50	44.9 AV	54.0	-9.1	1.60 H	22	13.6	31.3
5	4904.00	46.6 PK	74.0	-27.4	2.05 H	328	42.1	4.5
6	4904.00	35.8 AV	54.0	-18.2	2.05 H	328	31.3	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	108.8 PK			2.49 V	335	77.6	31.2
2	*2452.00	99.4 AV			2.49 V	335	68.2	31.2
3	2483.50	65.8 PK	74.0	-8.2	2.09 V	358	34.5	31.3
4	2483.50	52.9 AV	54.0	-1.1	2.09 V	358	21.6	31.3
5	4904.00	49.4 PK	74.0	-24.6	2.10 V	20	44.9	4.5
6	4904.00	38.1 AV	54.0	-15.9	2.10 V	20	33.6	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz worst-case data:

802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	28.6 QP	40.0	-11.4	2.00 H	299	43.2	-14.6
2	183.50	27.6 QP	43.5	-15.9	1.50 H	263	43.1	-15.5
3	204.89	29.0 QP	43.5	-14.5	1.50 H	258	45.5	-16.5
4	249.60	35.0 QP	46.0	-11.0	1.00 H	137	49.0	-14.0
5	374.04	37.5 QP	46.0	-8.5	1.00 H	148	48.0	-10.5
6	875.67	44.2 QP	46.0	-1.8	2.00 H	351	44.3	-0.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	55.18	36.9 QP	40.0	-3.1	1.51 V	352	51.3	-14.4
2	125.17	28.9 QP	43.5	-14.6	1.00 V	226	45.0	-16.1
3	181.55	27.5 QP	43.5	-16.0	1.00 V	137	42.8	-15.3
4	249.60	35.6 QP	46.0	-10.4	2.00 V	176	49.6	-14.0
5	374.04	41.5 QP	46.0	-4.5	1.00 V	217	52.0	-10.5
6	875.67	43.0 QP	46.0	-3.0	1.00 V	355	43.1	-0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Test Mode B

Above 1GHz worst-Case data:

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.8 PK	74.0	-12.2	1.50 H	350	30.9	30.9
2	2390.00	52.3 AV	54.0	-1.7	1.50 H	350	21.4	30.9
3	*2412.00	116.6 PK			1.78 H	351	85.5	31.1
4	*2412.00	112.6 AV			1.78 H	351	81.5	31.1
5	4824.00	46.8 PK	74.0	-27.2	1.37 H	315	42.3	4.5
6	4824.00	35.4 AV	54.0	-18.6	1.37 H	315	30.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.0 PK	74.0	-13.0	1.62 V	348	30.1	30.9
2	2390.00	51.9 AV	54.0	-2.1	1.62 V	348	21.0	30.9
3	*2412.00	117.7 PK			1.42 V	352	86.6	31.1
4	*2412.00	113.8 AV			1.42 V	352	82.7	31.1
5	4824.00	49.0 PK	74.0	-25.0	1.98 V	116	44.5	4.5
6	4824.00	37.8 AV	54.0	-16.2	1.98 V	116	33.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.7 PK	74.0	-17.3	1.83 H	338	25.9	30.8
2	2352.00	48.4 AV	54.0	-5.6	1.83 H	338	17.6	30.8
3	*2437.00	119.5 PK			1.70 H	359	88.4	31.1
4	*2437.00	115.7 AV			1.70 H	359	84.6	31.1
5	4874.00	46.9 PK	74.0	-27.1	2.08 H	315	42.3	4.6
6	4874.00	36.2 AV	54.0	-17.8	2.08 H	315	31.6	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	53.8 PK	74.0	-20.2	1.43 V	334	23.0	30.8
2	2352.00	44.2 AV	54.0	-9.8	1.43 V	334	13.4	30.8
3	*2437.00	116.9 PK			1.48 V	352	85.8	31.1
4	*2437.00	113.3 AV			1.48 V	352	82.2	31.1
5	4874.00	48.1 PK	74.0	-25.9	2.58 V	120	43.5	4.6
6	4874.00	40.5 AV	54.0	-13.5	2.58 V	120	35.9	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	117.6 PK			1.64 H	347	86.4	31.2
2	*2462.00	113.8 AV			1.64 H	347	82.6	31.2
3	2483.50	62.1 PK	74.0	-11.9	1.77 H	1	30.8	31.3
4	2483.50	52.2 AV	54.0	-1.8	1.77 H	1	20.9	31.3
5	4924.00	46.0 PK	74.0	-28.0	1.44 H	312	41.5	4.5
6	4924.00	34.4 AV	54.0	-19.6	1.44 H	312	29.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	115.8 PK			1.48 V	352	84.6	31.2
2	*2462.00	111.9 AV			1.48 V	352	80.7	31.2
3	2483.50	59.3 PK	74.0	-14.7	1.55 V	349	28.0	31.3
4	2483.50	51.0 AV	54.0	-3.0	1.55 V	349	19.7	31.3
5	4924.00	46.8 PK	74.0	-27.2	2.52 V	120	42.3	4.5
6	4924.00	37.4 AV	54.0	-16.6	2.52 V	120	32.9	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2351.00	64.5 PK	74.0	-9.5	1.56 H	352	33.7	30.8
2	2351.00	51.5 AV	54.0	-2.5	1.56 H	352	20.7	30.8
3	2390.00	69.3 PK	74.0	-4.7	1.68 H	352	38.4	30.9
4	2390.00	52.5 AV	54.0	-1.5	1.68 H	352	21.6	30.9
5	*2412.00	112.6 PK			1.35 H	0	81.5	31.1
6	*2412.00	103.2 AV			1.35 H	0	72.1	31.1
7	4824.00	47.6 PK	74.0	-26.4	2.88 H	89	43.1	4.5
8	4824.00	36.5 AV	54.0	-17.5	2.88 H	89	32.0	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2351.00	54.7 PK	74.0	-19.3	1.67 V	199	23.9	30.8
2	2351.00	43.3 AV	54.0	-10.7	1.67 V	199	12.5	30.8
3	2390.00	67.0 PK	74.0	-7.0	1.79 V	345	36.1	30.9
4	2390.00	52.5 AV	54.0	-1.5	1.79 V	345	21.6	30.9
5	*2412.00	113.4 PK			1.58 V	342	82.3	31.1
6	*2412.00	102.4 AV			1.58 V	342	71.3	31.1
7	4824.00	48.3 PK	74.0	-25.7	3.08 V	115	43.8	4.5
8	4824.00	39.6 AV	54.0	-14.4	3.08 V	115	35.1	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.0 PK	74.0	-7.0	1.70 H	346	36.1	30.9
2	2390.00	52.3 AV	54.0	-1.7	1.70 H	346	21.4	30.9
3	*2437.00	119.1 PK			1.72 H	0	88.0	31.1
4	*2437.00	109.5 AV			1.72 H	0	78.4	31.1
5	4874.00	47.8 PK	74.0	-26.2	3.41 H	0	43.2	4.6
6	4874.00	37.3 AV	54.0	-16.7	3.41 H	0	32.7	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.6 PK	74.0	-9.4	1.62 V	342	33.7	30.9
2	2390.00	49.4 AV	54.0	-4.6	1.62 V	342	18.5	30.9
3	*2437.00	118.0 PK			1.52 V	348	86.9	31.1
4	*2437.00	108.0 AV			1.52 V	348	76.9	31.1
5	4874.00	48.2 PK	74.0	-25.8	3.12 V	63	43.6	4.6
6	4874.00	37.8 AV	54.0	-16.2	3.12 V	63	33.2	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.2 PK	74.0	-14.8	1.58 H	344	28.4	30.8
2	2352.00	50.5 AV	54.0	-3.5	1.58 H	344	19.7	30.8
3	*2462.00	114.0 PK			1.48 H	0	82.8	31.2
4	*2462.00	104.1 AV			1.48 H	0	72.9	31.2
5	2483.50	68.9 PK	74.0	-5.1	1.55 H	349	37.6	31.3
6	2483.50	52.4 AV	54.0	-1.6	1.55 H	349	21.1	31.3
7	4924.00	46.4 PK	74.0	-27.6	2.54 H	83	41.9	4.5
8	4924.00	35.5 AV	54.0	-18.5	2.54 H	83	31.0	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.2 PK	74.0	-17.8	1.41 V	355	25.4	30.8
2	2352.00	44.1 AV	54.0	-9.9	1.41 V	355	13.3	30.8
3	*2462.00	114.4 PK			1.65 V	0	83.2	31.2
4	*2462.00	103.8 AV			1.65 V	0	72.6	31.2
5	2483.50	69.2 PK	74.0	-4.8	1.76 V	342	37.9	31.3
6	2483.50	52.1 AV	54.0	-1.9	1.76 V	342	20.8	31.3
7	4924.00	48.5 PK	74.0	-25.5	2.69 V	77	44.0	4.5
8	4924.00	37.8 AV	54.0	-16.2	2.69 V	77	33.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	60.7 PK	74.0	-13.3	1.55 H	350	29.9	30.8
2	2352.00	52.6 AV	54.0	-1.4	1.55 H	350	21.8	30.8
3	2390.00	67.9 PK	74.0	-6.1	1.66 H	350	37.0	30.9
4	2390.00	52.0 AV	54.0	-2.0	1.66 H	350	21.1	30.9
5	*2412.00	112.4 PK			1.50 H	350	81.3	31.1
6	*2412.00	102.1 AV			1.50 H	350	71.0	31.1
7	4824.00	47.2 PK	74.0	-26.8	2.64 H	13	42.7	4.5
8	4824.00	36.0 AV	54.0	-18.0	2.64 H	13	31.5	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.6 PK	74.0	-17.4	1.35 V	332	25.8	30.8
2	2352.00	43.9 AV	54.0	-10.1	1.35 V	332	13.1	30.8
3	2390.00	64.1 PK	74.0	-9.9	1.19 V	348	33.2	30.9
4	2390.00	49.7 AV	54.0	-4.3	1.19 V	348	18.8	30.9
5	*2412.00	111.2 PK			1.60 V	354	80.1	31.1
6	*2412.00	100.3 AV			1.60 V	354	69.2	31.1
7	4824.00	46.7 PK	74.0	-27.3	2.07 V	88	42.2	4.5
8	4824.00	37.3 AV	54.0	-16.7	2.07 V	88	32.8	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	60.7 PK	74.0	-13.3	1.56 H	350	29.9	30.8
2	2352.00	50.0 AV	54.0	-4.0	1.56 H	350	19.2	30.8
3	2390.00	71.1 PK	74.0	-2.9	1.66 H	346	40.2	30.9
4	2390.00	52.4 AV	54.0	-1.6	1.66 H	346	21.5	30.9
5	*2437.00	119.8 PK			1.49 H	1	88.7	31.1
6	*2437.00	108.7 AV			1.49 H	1	77.6	31.1
7	2483.50	70.5 PK	74.0	-3.5	1.55 H	350	39.2	31.3
8	2483.50	52.2 AV	54.0	-1.8	1.55 H	350	20.9	31.3
9	4874.00	47.2 PK	74.0	-26.8	2.55 H	221	42.6	4.6
10	4874.00	35.1 AV	54.0	-18.9	2.55 H	221	30.5	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	57.7 PK	74.0	-16.3	1.52 V	329	26.9	30.8
2	2352.00	44.7 AV	54.0	-9.3	1.52 V	329	13.9	30.8
3	2390.00	67.4 PK	74.0	-6.6	1.37 V	344	36.5	30.9
4	2390.00	49.3 AV	54.0	-4.7	1.37 V	344	18.4	30.9
5	*2437.00	118.3 PK			1.75 V	347	87.2	31.1
6	*2437.00	107.8 AV			1.75 V	347	76.7	31.1
7	2483.50	68.2 PK	74.0	-5.8	1.57 V	345	36.9	31.3
8	2483.50	51.2 AV	54.0	-2.8	1.57 V	345	19.9	31.3
9	4874.00	47.7 PK	74.0	-26.3	1.79 V	161	43.1	4.6
10	4874.00	37.0 AV	54.0	-17.0	1.79 V	161	32.4	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.8 PK	74.0	-14.2	1.56 H	343	29.0	30.8
2	2352.00	50.1 AV	54.0	-3.9	1.56 H	343	19.3	30.8
3	*2462.00	113.0 PK			1.50 H	2	81.8	31.2
4	*2462.00	103.0 AV			1.50 H	2	71.8	31.2
5	2483.50	66.3 PK	74.0	-7.7	1.76 H	353	35.0	31.3
6	2483.50	52.6 AV	54.0	-1.4	1.76 H	353	21.3	31.3
7	4924.00	46.7 PK	74.0	-27.3	1.86 H	11	42.2	4.5
8	4924.00	34.4 AV	54.0	-19.6	1.86 H	11	29.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	55.6 PK	74.0	-18.4	1.40 V	13	24.8	30.8
2	2352.00	44.0 AV	54.0	-10.0	1.40 V	13	13.2	30.8
3	*2462.00	113.6 PK			1.52 V	0	82.4	31.2
4	*2462.00	102.5 AV			1.52 V	0	71.3	31.2
5	2483.50	66.7 PK	74.0	-7.3	1.53 V	344	35.4	31.3
6	2483.50	52.7 AV	54.0	-1.3	1.53 V	344	21.4	31.3
7	4924.00	47.1 PK	74.0	-26.9	1.79 V	162	42.6	4.5
8	4924.00	36.5 AV	54.0	-17.5	1.79 V	162	32.0	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.7 PK	74.0	-14.3	1.57 H	352	28.9	30.8
2	2352.00	51.4 AV	54.0	-2.6	1.57 H	352	20.6	30.8
3	2390.00	64.5 PK	74.0	-9.5	1.51 H	351	33.6	30.9
4	2390.00	52.5 AV	54.0	-1.5	1.51 H	351	21.6	30.9
5	*2422.00	106.4 PK			1.49 H	1	75.3	31.1
6	*2422.00	97.1 AV			1.49 H	1	66.0	31.1
7	4844.00	47.5 PK	74.0	-26.5	2.94 H	37	43.1	4.4
8	4844.00	37.9 AV	54.0	-16.1	2.94 H	37	33.5	4.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	56.4 PK	74.0	-17.6	1.66 V	352	25.6	30.8
2	2352.00	44.4 AV	54.0	-9.6	1.66 V	352	13.6	30.8
3	2390.00	66.5 PK	74.0	-7.5	1.79 V	343	35.6	30.9
4	2390.00	52.3 AV	54.0	-1.7	1.79 V	343	21.4	30.9
5	*2422.00	106.0 PK			1.58 V	346	74.9	31.1
6	*2422.00	96.6 AV			1.58 V	346	65.5	31.1
7	4824.00	47.6 PK	74.0	-26.4	1.97 V	85	43.1	4.5
8	4824.00	37.0 AV	54.0	-17.0	1.97 V	85	32.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	61.0 PK	74.0	-13.0	1.34 H	344	30.2	30.8
2	2352.00	51.1 AV	54.0	-2.9	1.34 H	344	20.3	30.8
3	2390.00	66.6 PK	74.0	-7.4	1.63 H	351	35.7	30.9
4	2390.00	52.4 AV	54.0	-1.6	1.63 H	351	21.5	30.9
5	*2437.00	109.8 PK			1.51 H	0	78.7	31.1
6	*2437.00	100.7 AV			1.51 H	0	69.6	31.1
7	4874.00	46.8 PK	74.0	-27.2	2.23 H	74	42.2	4.6
8	4874.00	34.4 AV	54.0	-19.6	2.23 H	74	29.8	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	58.2 PK	74.0	-15.8	1.49 V	353	27.4	30.8
2	2352.00	45.0 AV	54.0	-9.0	1.49 V	353	14.2	30.8
3	2390.00	63.5 PK	74.0	-10.5	1.39 V	342	32.6	30.9
4	2390.00	49.9 AV	54.0	-4.1	1.39 V	342	19.0	30.9
5	*2437.00	109.2 PK			1.45 V	351	78.1	31.1
6	*2437.00	99.9 AV			1.45 V	351	68.8	31.1
7	4874.00	47.5 PK	74.0	-26.5	1.83 V	89	42.9	4.6
8	4874.00	36.7 AV	54.0	-17.3	1.83 V	89	32.1	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	59.5 PK	74.0	-14.5	1.56 H	344	28.7	30.8
2	2352.00	51.0 AV	54.0	-3.0	1.56 H	344	20.2	30.8
3	*2452.00	107.8 PK			1.48 H	2	76.6	31.2
4	*2452.00	99.0 AV			1.48 H	2	67.8	31.2
5	2483.50	63.7 PK	74.0	-10.3	1.42 H	346	32.4	31.3
6	2483.50	52.3 AV	54.0	-1.7	1.42 H	346	21.0	31.3
7	4904.00	46.0 PK	74.0	-28.0	1.60 H	202	41.5	4.5
8	4904.00	33.9 AV	54.0	-20.1	1.60 H	202	29.4	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2352.00	54.9 PK	74.0	-19.1	1.62 V	254	24.1	30.8
2	2352.00	43.9 AV	54.0	-10.1	1.62 V	254	13.1	30.8
3	*2452.00	107.9 PK			1.72 V	353	76.7	31.2
4	*2452.00	98.4 AV			1.72 V	353	67.2	31.2
5	2483.50	60.9 PK	74.0	-13.1	1.54 V	335	29.6	31.3
6	2483.50	49.6 AV	54.0	-4.4	1.54 V	335	18.3	31.3
7	4904.00	47.5 PK	74.0	-26.5	2.08 V	115	43.0	4.5
8	4904.00	38.1 AV	54.0	-15.9	2.08 V	115	33.6	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz worst-case data:

802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.73	32.9 QP	40.0	-7.1	1.99 H	98	48.5	-15.6
2	125.17	28.8 QP	43.5	-14.7	1.99 H	283	44.9	-16.1
3	158.22	29.8 QP	43.5	-13.7	1.50 H	76	43.5	-13.7
4	249.60	39.2 QP	46.0	-6.8	1.00 H	142	53.2	-14.0
5	374.04	37.8 QP	46.0	-8.2	1.99 H	162	48.3	-10.5
6	875.67	40.8 QP	46.0	-5.2	1.50 H	48	40.9	-0.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.73	37.8 QP	40.0	-2.2	1.01 V	68	53.4	-15.6
2	53.23	36.6 QP	40.0	-3.4	1.50 V	3	50.8	-14.2
3	96.01	28.5 QP	43.5	-15.0	1.01 V	162	47.9	-19.4
4	179.61	30.0 QP	43.5	-13.5	1.01 V	27	45.1	-15.1
5	374.04	41.4 QP	46.0	-4.6	1.01 V	185	51.9	-10.5
6	875.67	40.9 QP	46.0	-5.1	1.01 V	116	41.0	-0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Test Mode C

Above 1GHz worst-Case data:

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.5 PK	74.0	-13.5	2.22 H	351	29.6	30.9
2	2390.00	52.6 AV	54.0	-1.4	2.22 H	351	21.7	30.9
3	*2412.00	113.8 PK			1.99 H	345	82.7	31.1
4	*2412.00	111.4 AV			1.99 H	345	80.3	31.1
5	4824.00	50.4 PK	74.0	-23.6	1.50 H	187	45.9	4.5
6	4824.00	45.8 AV	54.0	-8.2	1.50 H	187	41.3	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.5 PK	74.0	-15.5	1.84 V	340	27.6	30.9
2	2390.00	51.0 AV	54.0	-3.0	1.84 V	340	20.1	30.9
3	*2412.00	113.4 PK			1.50 V	334	82.3	31.1
4	*2412.00	109.7 AV			1.50 V	334	78.6	31.1
5	4824.00	52.8 PK	74.0	-21.2	2.51 V	297	48.3	4.5
6	4824.00	49.5 AV	54.0	-4.5	2.51 V	297	45.0	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.0 PK			2.41 H	354	83.9	31.1
2	*2437.00	111.2 AV			2.41 H	354	80.1	31.1
3	4874.00	52.6 PK	74.0	-21.4	2.63 H	175	48.0	4.6
4	4874.00	48.1 AV	54.0	-5.9	2.63 H	175	43.5	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	114.6 PK			1.71 V	0	83.5	31.1
2	*2437.00	110.9 AV			1.71 V	0	79.8	31.1
3	4874.00	53.2 PK	74.0	-20.8	2.45 V	298	48.6	4.6
4	4874.00	49.7 AV	54.0	-4.3	2.45 V	298	45.1	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.3 PK			1.65 H	352	83.1	31.2
2	*2462.00	110.1 AV			1.65 H	352	78.9	31.2
3	2483.50	59.7 PK	74.0	-14.3	2.10 H	343	28.4	31.3
4	2483.50	52.6 AV	54.0	-1.4	2.10 H	343	21.3	31.3
5	4924.00	49.6 PK	74.0	-24.4	2.28 H	198	45.1	4.5
6	4924.00	42.5 AV	54.0	-11.5	2.28 H	198	38.0	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.3 PK			1.40 V	339	83.1	31.2
2	*2462.00	112.0 AV			1.40 V	339	80.8	31.2
3	2483.50	59.3 PK	74.0	-14.7	1.73 V	347	28.0	31.3
4	2483.50	49.8 AV	54.0	-4.2	1.73 V	347	18.5	31.3
5	4924.00	51.0 PK	74.0	-23.0	2.50 V	292	46.5	4.5
6	4924.00	45.7 AV	54.0	-8.3	2.50 V	292	41.2	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	2.45 H	348	36.8	30.9
2	2390.00	52.5 AV	54.0	-1.5	2.45 H	348	21.6	30.9
3	*2412.00	110.6 PK			2.42 H	349	79.5	31.1
4	*2412.00	100.6 AV			2.42 H	349	69.5	31.1
5	4824.00	46.9 PK	74.0	-27.1	2.37 H	256	42.4	4.5
6	4824.00	36.3 AV	54.0	-17.7	2.37 H	256	31.8	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.1 PK	74.0	-7.9	1.89 V	344	35.2	30.9
2	2390.00	51.4 AV	54.0	-2.6	1.89 V	344	20.5	30.9
3	*2412.00	111.3 PK			1.76 V	341	80.2	31.1
4	*2412.00	100.1 AV			1.76 V	341	69.0	31.1
5	4824.00	47.2 PK	74.0	-26.8	2.25 V	258	42.7	4.5
6	4824.00	37.7 AV	54.0	-16.3	2.25 V	258	33.2	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.5 PK	74.0	-6.5	2.24 H	351	36.6	30.9
2	2390.00	52.6 AV	54.0	-1.4	2.24 H	351	21.7	30.9
3	*2437.00	116.7 PK			2.11 H	349	85.6	31.1
4	*2437.00	106.5 AV			2.11 H	349	75.4	31.1
5	2483.50	67.8 PK	74.0	-6.2	2.30 H	346	36.5	31.3
6	2483.50	52.8 AV	54.0	-1.2	2.30 H	346	21.5	31.3
7	4874.00	49.2 PK	74.0	-24.8	2.34 H	252	44.6	4.6
8	4874.00	37.1 AV	54.0	-16.9	2.34 H	252	32.5	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.8 PK	74.0	-8.2	1.80 V	336	34.9	30.9
2	2390.00	49.0 AV	54.0	-5.0	1.80 V	336	18.1	30.9
3	*2437.00	116.2 PK			1.66 V	345	85.1	31.1
4	*2437.00	105.3 AV			1.66 V	345	74.2	31.1
5	2483.50	66.0 PK	74.0	-8.0	1.75 V	345	34.7	31.3
6	2483.50	50.6 AV	54.0	-3.4	1.75 V	345	19.3	31.3
7	4874.00	47.6 PK	74.0	-26.4	2.23 V	258	43.0	4.6
8	4874.00	38.0 AV	54.0	-16.0	2.23 V	258	33.4	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.6 PK			2.09 H	344	80.4	31.2
2	*2462.00	101.8 AV			2.09 H	344	70.6	31.2
3	2483.50	67.4 PK	74.0	-6.6	2.26 H	345	36.1	31.3
4	2483.50	52.7 AV	54.0	-1.3	2.26 H	345	21.4	31.3
5	4924.00	45.5 PK	74.0	-28.5	1.81 H	272	41.0	4.5
6	4924.00	34.4 AV	54.0	-19.6	1.81 H	272	29.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.6 PK			2.23 V	349	81.4	31.2
2	*2462.00	101.3 AV			2.23 V	349	70.1	31.2
3	2483.50	67.5 PK	74.0	-6.5	2.59 V	339	36.2	31.3
4	2483.50	51.7 AV	54.0	-2.3	2.59 V	339	20.4	31.3
5	4924.00	46.9 PK	74.0	-27.1	2.38 V	262	42.4	4.5
6	4924.00	37.7 AV	54.0	-16.3	2.38 V	262	33.2	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.6 PK	74.0	-5.4	2.19 H	348	37.7	30.9
2	2390.00	52.8 AV	54.0	-1.2	2.19 H	348	21.9	30.9
3	*2412.00	109.2 PK			2.15 H	349	78.1	31.1
4	*2412.00	98.8 AV			2.15 H	349	67.7	31.1
5	4824.00	46.0 PK	74.0	-28.0	1.73 H	169	41.5	4.5
6	4824.00	35.2 AV	54.0	-18.8	1.73 H	169	30.7	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.5 PK	74.0	-6.5	1.86 V	346	36.6	30.9
2	2390.00	51.0 AV	54.0	-3.0	1.86 V	346	20.1	30.9
3	*2412.00	108.9 PK			1.77 V	346	77.8	31.1
4	*2412.00	98.1 AV			1.77 V	346	67.0	31.1
5	4824.00	45.9 PK	74.0	-28.1	1.21 V	58	41.4	4.5
6	4824.00	37.0 AV	54.0	-17.0	1.21 V	58	32.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	69.2 PK	74.0	-4.8	2.19 H	344	38.3	30.9
2	2390.00	51.6 AV	54.0	-2.4	2.19 H	344	20.7	30.9
3	*2437.00	116.4 PK			1.76 H	353	85.3	31.1
4	*2437.00	105.7 AV			1.76 H	353	74.6	31.1
5	2483.50	69.5 PK	74.0	-4.5	2.27 H	341	38.2	31.3
6	2483.50	52.5 AV	54.0	-1.5	2.27 H	341	21.2	31.3
7	4874.00	46.8 PK	74.0	-27.2	2.04 H	201	42.2	4.6
8	4874.00	35.9 AV	54.0	-18.1	2.04 H	201	31.3	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.0 PK	74.0	-6.0	1.87 V	351	37.1	30.9
2	2390.00	50.6 AV	54.0	-3.4	1.87 V	351	19.7	30.9
3	*2437.00	116.9 PK			1.65 V	349	85.8	31.1
4	*2437.00	105.8 AV			1.65 V	349	74.7	31.1
5	2483.50	68.4 PK	74.0	-5.6	1.73 V	339	37.1	31.3
6	2483.50	51.4 AV	54.0	-2.6	1.73 V	339	20.1	31.3
7	4874.00	45.9 PK	74.0	-28.1	2.54 V	226	41.3	4.6
8	4874.00	37.0 AV	54.0	-17.0	2.54 V	226	32.4	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.3 PK			1.88 H	349	79.1	31.2
2	*2462.00	100.3 AV			1.88 H	349	69.1	31.2
3	2483.50	66.1 PK	74.0	-7.9	2.27 H	346	34.8	31.3
4	2483.50	51.9 AV	54.0	-2.1	2.27 H	346	20.6	31.3
5	4924.00	45.2 PK	74.0	-28.8	1.35 H	107	40.7	4.5
6	4924.00	33.8 AV	54.0	-20.2	1.35 H	107	29.3	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.8 PK			1.78 V	344	79.6	31.2
2	*2462.00	99.7 AV			1.78 V	344	68.5	31.2
3	2483.50	66.5 PK	74.0	-7.5	1.77 V	345	35.2	31.3
4	2483.50	52.7 AV	54.0	-1.3	1.77 V	345	21.4	31.3
5	4924.00	46.0 PK	74.0	-28.0	2.66 V	252	41.5	4.5
6	4924.00	37.0 AV	54.0	-17.0	2.66 V	252	32.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.3 PK	74.0	-7.7	2.45 H	344	35.4	30.9
2	2390.00	52.4 AV	54.0	-1.6	2.45 H	344	21.5	30.9
3	*2422.00	103.3 PK			2.43 H	357	72.2	31.1
4	*2422.00	94.2 AV			2.43 H	357	63.1	31.1
5	4844.00	45.5 PK	74.0	-28.5	2.56 H	241	41.1	4.4
6	4844.00	32.4 AV	54.0	-21.6	2.56 H	241	28.0	4.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.4 PK	74.0	-9.6	1.83 V	340	33.5	30.9
2	2390.00	51.2 AV	54.0	-2.8	1.83 V	340	20.3	30.9
3	*2422.00	104.6 PK			1.70 V	340	73.5	31.1
4	*2422.00	94.0 AV			1.70 V	340	62.9	31.1
5	4844.00	44.7 PK	74.0	-29.3	1.88 V	102	40.3	4.4
6	4844.00	32.2 AV	54.0	-21.8	1.88 V	102	27.8	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	2.47 H	347	35.7	30.9
2	2390.00	52.5 AV	54.0	-1.5	2.47 H	347	21.6	30.9
3	*2437.00	107.8 PK			2.10 H	346	76.7	31.1
4	*2437.00	98.7 AV			2.10 H	346	67.6	31.1
5	2483.50	65.7 PK	74.0	-8.3	2.29 H	342	34.4	31.3
6	2483.50	49.8 AV	54.0	-4.2	2.29 H	342	18.5	31.3
7	4874.00	46.5 PK	74.0	-27.5	1.85 H	196	41.9	4.6
8	4874.00	32.9 AV	54.0	-21.1	1.85 H	196	28.3	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.2 PK	74.0	-8.8	1.86 V	348	34.3	30.9
2	2390.00	51.4 AV	54.0	-2.6	1.86 V	348	20.5	30.9
3	*2437.00	108.3 PK			1.65 V	347	77.2	31.1
4	*2437.00	98.8 AV			1.65 V	347	67.7	31.1
5	2483.50	64.4 PK	74.0	-9.6	1.71 V	338	33.1	31.3
6	2483.50	49.1 AV	54.0	-4.9	1.71 V	338	17.8	31.3
7	4874.00	45.1 PK	74.0	-28.9	2.54 V	236	40.5	4.6
8	4874.00	32.0 AV	54.0	-22.0	2.54 V	236	27.4	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	107.7 PK			1.71 H	349	76.5	31.2
2	*2452.00	98.1 AV			1.71 H	349	66.9	31.2
3	2483.50	65.0 PK	74.0	-9.0	2.03 H	350	33.7	31.3
4	2483.50	52.6 AV	54.0	-1.4	2.03 H	350	21.3	31.3
5	4904.00	45.2 PK	74.0	-28.8	1.77 H	169	40.7	4.5
6	4904.00	32.6 AV	54.0	-21.4	1.77 H	169	28.1	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	107.1 PK			1.38 V	337	75.9	31.2
2	*2452.00	97.7 AV			1.38 V	337	66.5	31.2
3	2483.50	66.2 PK	74.0	-7.8	1.74 V	348	34.9	31.3
4	2483.50	52.5 AV	54.0	-1.5	1.74 V	348	21.2	31.3
5	4904.00	45.9 PK	74.0	-28.1	1.68 V	234	41.4	4.5
6	4904.00	33.0 AV	54.0	-21.0	1.68 V	234	28.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz worst-case data:

802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	57.12	28.0 QP	40.0	-12.0	1.99 H	16	42.6	-14.6
2	169.89	29.2 QP	43.5	-14.3	1.50 H	279	43.2	-14.0
3	179.61	30.7 QP	43.5	-12.8	1.99 H	283	45.8	-15.1
4	249.60	36.8 QP	46.0	-9.2	1.00 H	33	50.8	-14.0
5	374.04	38.8 QP	46.0	-7.2	1.00 H	129	49.3	-10.5
6	875.67	40.3 QP	46.0	-5.7	1.50 H	34	40.4	-0.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	36.72	38.3 QP	40.0	-1.7	1.50 V	11	53.8	-15.5
2	54.06	36.9 QP	40.0	-3.1	1.50 V	355	51.0	-14.1
3	249.60	35.2 QP	46.0	-10.8	1.00 V	302	49.2	-14.0
4	374.04	41.2 QP	46.0	-4.8	1.50 V	87	51.7	-10.5
5	624.85	34.7 QP	46.0	-11.3	1.50 V	109	39.4	-4.7
6	874.99	44.0 QP	46.0	-2.0	1.00 V	105	44.1	-0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Test Mode D

Above 1GHz worst-Case data:

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.1 PK	74.0	-12.9	1.69 H	345	30.2	30.9
2	2390.00	52.3 AV	54.0	-1.7	1.69 H	345	21.4	30.9
3	*2412.00	116.7 PK			1.98 H	1	85.6	31.1
4	*2412.00	112.9 AV			1.98 H	1	81.8	31.1
5	4824.00	51.5 PK	74.0	-22.5	2.00 H	213	47.0	4.5
6	4824.00	46.9 AV	54.0	-7.1	2.00 H	213	42.4	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.6 PK	74.0	-13.4	1.81 V	339	29.7	30.9
2	2390.00	53.0 AV	54.0	-1.0	1.81 V	339	22.1	30.9
3	*2412.00	116.1 PK			1.74 V	345	85.0	31.1
4	*2412.00	112.2 AV			1.74 V	345	81.1	31.1
5	4824.00	55.9 PK	74.0	-18.1	2.94 V	288	51.4	4.5
6	4824.00	52.9 AV	54.0	-1.1	2.94 V	288	48.4	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.3 PK			1.65 H	357	86.2	31.1
2	*2437.00	113.7 AV			1.65 H	357	82.6	31.1
3	4874.00	51.9 PK	74.0	-22.1	1.94 H	173	47.3	4.6
4	4874.00	48.2 AV	54.0	-5.8	1.94 H	173	43.6	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	115.8 PK			1.47 V	0	84.7	31.1
2	*2437.00	112.1 AV			1.47 V	0	81.0	31.1
3	4874.00	54.3 PK	74.0	-19.7	2.91 V	279	49.7	4.6
4	4874.00	52.2 AV	54.0	-1.8	2.91 V	279	47.6	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.1 PK			1.68 H	0	84.9	31.2
2	*2462.00	112.2 AV			1.68 H	0	81.0	31.2
3	2483.50	59.0 PK	74.0	-15.0	1.61 H	341	27.7	31.3
4	2483.50	52.2 AV	54.0	-1.8	1.61 H	341	20.9	31.3
5	4924.00	49.1 PK	74.0	-24.9	2.09 H	197	44.6	4.5
6	4924.00	42.9 AV	54.0	-11.1	2.09 H	197	38.4	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.2 PK			1.61 V	0	83.0	31.2
2	*2462.00	110.3 AV			1.61 V	0	79.1	31.2
3	2483.50	59.1 PK	74.0	-14.9	1.75 V	345	27.8	31.3
4	2483.50	52.0 AV	54.0	-2.0	1.75 V	345	20.7	31.3
5	4924.00	51.5 PK	74.0	-22.5	2.88 V	296	47.0	4.5
6	4924.00	46.6 AV	54.0	-7.4	2.88 V	296	42.1	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.2 PK	74.0	-6.8	1.73 H	348	36.3	30.9
2	2390.00	52.3 AV	54.0	-1.7	1.73 H	348	21.4	30.9
3	*2412.00	112.1 PK			1.59 H	0	81.0	31.1
4	*2412.00	101.8 AV			1.59 H	0	70.7	31.1
5	4824.00	45.9 PK	74.0	-28.1	1.85 H	298	41.4	4.5
6	4824.00	33.2 AV	54.0	-20.8	1.85 H	298	28.7	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.5 PK	74.0	-7.5	1.81 V	346	35.6	30.9
2	2390.00	52.1 AV	54.0	-1.9	1.81 V	346	21.2	30.9
3	*2412.00	110.8 PK			1.69 V	0	79.7	31.1
4	*2412.00	100.8 AV			1.69 V	0	69.7	31.1
5	4824.00	46.7 PK	74.0	-27.3	2.66 V	257	42.2	4.5
6	4824.00	36.8 AV	54.0	-17.2	2.66 V	257	32.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	1.66 H	351	35.7	30.9
2	2390.00	52.3 AV	54.0	-1.7	1.66 H	351	21.4	30.9
3	*2437.00	119.0 PK			1.50 H	347	87.9	31.1
4	*2437.00	108.2 AV			1.50 H	347	77.1	31.1
5	2483.50	67.5 PK	74.0	-6.5	1.54 H	354	36.2	31.3
6	2483.50	50.5 AV	54.0	-3.5	1.54 H	354	19.2	31.3
7	4874.00	50.4 PK	74.0	-23.6	2.30 H	239	45.8	4.6
8	4874.00	37.2 AV	54.0	-16.8	2.30 H	239	32.6	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.3 PK	74.0	-5.7	1.39 V	350	37.4	30.9
2	2390.00	51.6 AV	54.0	-2.4	1.39 V	350	20.7	30.9
3	*2437.00	117.7 PK			1.48 V	340	86.6	31.1
4	*2437.00	107.4 AV			1.48 V	340	76.3	31.1
5	2483.50	68.1 PK	74.0	-5.9	1.46 V	345	36.8	31.3
6	2483.50	51.3 AV	54.0	-2.7	1.46 V	345	20.0	31.3
7	4874.00	51.9 PK	74.0	-22.1	2.18 V	295	47.3	4.6
8	4874.00	39.0 AV	54.0	-15.0	2.18 V	295	34.4	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.3 PK			1.40 H	345	83.1	31.2
2	*2462.00	103.5 AV			1.40 H	345	72.3	31.2
3	2483.50	67.1 PK	74.0	-6.9	1.57 H	351	35.8	31.3
4	2483.50	52.3 AV	54.0	-1.7	1.57 H	351	21.0	31.3
5	4924.00	47.2 PK	74.0	-26.8	2.39 H	247	42.7	4.5
6	4924.00	36.0 AV	54.0	-18.0	2.39 H	247	31.5	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.4 PK			1.64 V	0	80.2	31.2
2	*2462.00	101.5 AV			1.64 V	0	70.3	31.2
3	2483.50	65.4 PK	74.0	-8.6	1.52 V	347	34.1	31.3
4	2483.50	50.9 AV	54.0	-3.1	1.52 V	347	19.6	31.3
5	4924.00	49.1 PK	74.0	-24.9	2.62 V	288	44.6	4.5
6	4924.00	39.0 AV	54.0	-15.0	2.62 V	288	34.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.3 PK	74.0	-6.7	1.65 H	351	36.4	30.9
2	2390.00	52.5 AV	54.0	-1.5	1.65 H	351	21.6	30.9
3	*2412.00	111.0 PK			1.76 H	344	79.9	31.1
4	*2412.00	100.6 AV			1.76 H	344	69.5	31.1
5	4824.00	47.5 PK	74.0	-26.5	2.32 H	256	43.0	4.5
6	4824.00	35.9 AV	54.0	-18.1	2.32 H	256	31.4	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	1.96 V	348	36.8	30.9
2	2390.00	52.4 AV	54.0	-1.6	1.96 V	348	21.5	30.9
3	*2412.00	110.7 PK			1.99 V	333	79.6	31.1
4	*2412.00	99.9 AV			1.99 V	333	68.8	31.1
5	4824.00	47.9 PK	74.0	-26.1	2.61 V	258	43.4	4.5
6	4824.00	37.8 AV	54.0	-16.2	2.61 V	258	33.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.1 PK	74.0	-2.9	1.40 H	345	40.2	30.9
2	2390.00	52.7 AV	54.0	-1.3	1.40 H	345	21.8	30.9
3	*2437.00	118.5 PK			1.67 H	348	87.4	31.1
4	*2437.00	108.1 AV			1.67 H	348	77.0	31.1
5	2483.50	69.3 PK	74.0	-4.7	1.57 H	349	38.0	31.3
6	2483.50	51.4 AV	54.0	-2.6	1.57 H	349	20.1	31.3
7	4874.00	49.5 PK	74.0	-24.5	2.06 H	186	44.9	4.6
8	4874.00	36.6 AV	54.0	-17.4	2.06 H	186	32.0	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	71.1 PK	74.0	-2.9	1.42 V	248	40.2	30.9
2	2390.00	52.4 AV	54.0	-1.6	1.42 V	248	21.5	30.9
3	*2437.00	117.0 PK			1.52 V	354	85.9	31.1
4	*2437.00	106.4 AV			1.52 V	354	75.3	31.1
5	2483.50	70.3 PK	74.0	-3.7	1.50 V	346	39.0	31.3
6	2483.50	52.1 AV	54.0	-1.9	1.50 V	346	20.8	31.3
7	4874.00	52.3 PK	74.0	-21.7	2.37 V	291	47.7	4.6
8	4874.00	39.2 AV	54.0	-14.8	2.37 V	291	34.6	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.3 PK			1.75 H	354	82.1	31.2
2	*2462.00	102.6 AV			1.75 H	354	71.4	31.2
3	2483.50	66.9 PK	74.0	-7.1	1.55 H	348	35.6	31.3
4	2483.50	53.0 AV	54.0	-1.0	1.55 H	348	21.7	31.3
5	4924.00	47.1 PK	74.0	-26.9	2.38 H	249	42.6	4.5
6	4924.00	35.6 AV	54.0	-18.4	2.38 H	249	31.1	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	111.7 PK			1.68 V	346	80.5	31.2
2	*2462.00	101.5 AV			1.68 V	346	70.3	31.2
3	2483.50	67.4 PK	74.0	-6.6	1.78 V	344	36.1	31.3
4	2483.50	51.7 AV	54.0	-2.3	1.78 V	344	20.4	31.3
5	4924.00	48.2 PK	74.0	-25.8	2.73 V	290	43.7	4.5
6	4924.00	38.5 AV	54.0	-15.5	2.73 V	290	34.0	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.5 PK	74.0	-8.5	1.70 H	348	34.6	30.9
2	2390.00	52.3 AV	54.0	-1.7	1.70 H	348	21.4	30.9
3	*2422.00	105.6 PK			1.64 H	344	74.5	31.1
4	*2422.00	96.0 AV			1.64 H	344	64.9	31.1
5	4844.00	46.3 PK	74.0	-27.7	2.31 H	257	41.9	4.4
6	4844.00	35.4 AV	54.0	-18.6	2.31 H	257	31.0	4.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.5 PK	74.0	-7.5	1.60 V	340	35.6	30.9
2	2390.00	52.4 AV	54.0	-1.6	1.60 V	340	21.5	30.9
3	*2422.00	104.2 PK			1.57 V	338	73.1	31.1
4	*2422.00	94.8 AV			1.57 V	338	63.7	31.1
5	4844.00	47.1 PK	74.0	-26.9	2.57 V	138	42.7	4.4
6	4844.00	37.8 AV	54.0	-16.2	2.57 V	138	33.4	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	1.40 H	349	34.2	30.9
2	2390.00	52.4 AV	54.0	-1.6	1.40 H	349	21.5	30.9
3	*2437.00	109.5 PK			1.38 H	357	78.4	31.1
4	*2437.00	100.0 AV			1.38 H	357	68.9	31.1
5	4874.00	47.1 PK	74.0	-26.9	2.31 H	254	42.5	4.6
6	4874.00	35.8 AV	54.0	-18.2	2.31 H	254	31.2	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.2 PK	74.0	-7.8	1.42 V	347	35.3	30.9
2	2390.00	52.0 AV	54.0	-2.0	1.42 V	347	21.1	30.9
3	*2437.00	108.5 PK			1.57 V	354	77.4	31.1
4	*2437.00	99.1 AV			1.57 V	354	68.0	31.1
5	4874.00	48.0 PK	74.0	-26.0	2.66 V	360	43.4	4.6
6	4874.00	39.2 AV	54.0	-14.8	2.66 V	360	34.6	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	108.5 PK			1.60 H	346	77.3	31.2
2	*2452.00	98.6 AV			1.60 H	346	67.4	31.2
3	2483.50	63.8 PK	74.0	-10.2	1.58 H	346	32.5	31.3
4	2483.50	52.5 AV	54.0	-1.5	1.58 H	346	21.2	31.3
5	4904.00	46.9 PK	74.0	-27.1	2.45 H	255	42.4	4.5
6	4904.00	35.4 AV	54.0	-18.6	2.45 H	255	30.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	107.4 PK			1.65 V	350	76.2	31.2
2	*2452.00	97.8 AV			1.65 V	350	66.6	31.2
3	2483.50	63.0 PK	74.0	-11.0	1.76 V	345	31.7	31.3
4	2483.50	52.0 AV	54.0	-2.0	1.76 V	345	20.7	31.3
5	4904.00	47.7 PK	74.0	-26.3	2.70 V	289	43.2	4.5
6	4904.00	38.5 AV	54.0	-15.5	2.70 V	289	34.0	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz worst-case data:

802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.73	32.4 QP	40.0	-7.6	1.49 H	112	48.0	-15.6
2	53.23	30.7 QP	40.0	-9.3	2.00 H	107	44.9	-14.2
3	148.50	29.8 QP	43.5	-13.7	2.00 H	87	43.5	-13.7
4	249.60	38.2 QP	46.0	-7.8	1.03 H	155	52.2	-14.0
5	374.04	38.0 QP	46.0	-8.0	1.03 H	213	48.5	-10.5
6	875.67	41.5 QP	46.0	-4.5	1.49 H	53	41.6	-0.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	34.72	38.5 QP	40.0	-1.5	1.08 V	65	54.2	-15.7
2	55.60	36.5 QP	40.0	-3.5	1.03 V	3	51.0	-14.5
3	210.72	29.3 QP	43.5	-14.2	1.00 V	121	45.6	-16.3
4	249.60	29.6 QP	46.0	-16.4	1.00 V	279	43.6	-14.0
5	374.04	39.5 QP	46.0	-6.5	1.00 V	162	50.0	-10.5
6	875.67	42.6 QP	46.0	-3.4	1.00 V	115	42.7	-0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Test Mode E

Above 1GHz worst-Case data:

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.64 H	349	28.2	30.9
2	2390.00	50.2 AV	54.0	-3.8	1.64 H	349	19.3	30.9
3	*2412.00	117.2 PK			1.75 H	352	86.1	31.1
4	*2412.00	113.5 AV			1.75 H	352	82.4	31.1
5	4824.00	50.8 PK	74.0	-23.2	2.41 H	182	46.3	4.5
6	4824.00	45.4 AV	54.0	-8.6	2.41 H	182	40.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.4 PK	74.0	-14.6	1.46 V	348	28.5	30.9
2	2390.00	50.6 AV	54.0	-3.4	1.46 V	348	19.7	30.9
3	*2412.00	117.8 PK			1.59 V	350	86.7	31.1
4	*2412.00	114.0 AV			1.59 V	350	82.9	31.1
5	4824.00	51.1 PK	74.0	-22.9	2.94 V	280	46.6	4.5
6	4824.00	46.6 AV	54.0	-7.4	2.94 V	280	42.1	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	116.8 PK			1.95 H	351	85.7	31.1
2	*2437.00	112.7 AV			1.95 H	351	81.6	31.1
3	4874.00	49.1 PK	74.0	-24.9	2.29 H	240	44.5	4.6
4	4874.00	42.4 AV	54.0	-11.6	2.29 H	240	37.8	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	117.2 PK			1.81 V	351	86.1	31.1
2	*2437.00	113.3 AV			1.81 V	351	82.2	31.1
3	4874.00	51.1 PK	74.0	-22.9	2.52 V	295	46.5	4.6
4	4874.00	46.4 AV	54.0	-7.6	2.52 V	295	41.8	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	116.6 PK			2.16 H	351	85.4	31.2
2	*2462.00	112.8 AV			2.16 H	351	81.6	31.2
3	2483.50	58.3 PK	74.0	-15.7	1.80 H	351	27.0	31.3
4	2483.50	49.2 AV	54.0	-4.8	1.80 H	351	17.9	31.3
5	4924.00	48.2 PK	74.0	-25.8	1.94 H	201	43.7	4.5
6	4924.00	41.4 AV	54.0	-12.6	1.94 H	201	36.9	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	117.0 PK			1.50 V	343	85.8	31.2
2	*2462.00	113.1 AV			1.50 V	343	81.9	31.2
3	2483.50	58.6 PK	74.0	-15.4	1.76 V	350	27.3	31.3
4	2483.50	48.0 AV	54.0	-6.0	1.76 V	350	16.7	31.3
5	4924.00	50.3 PK	74.0	-23.7	2.66 V	291	45.8	4.5
6	4924.00	44.3 AV	54.0	-9.7	2.66 V	291	39.8	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.5 PK	74.0	-7.5	2.06 H	352	35.6	30.9
2	2390.00	50.8 AV	54.0	-3.2	2.06 H	352	19.9	30.9
3	*2412.00	113.9 PK			1.96 H	351	82.8	31.1
4	*2412.00	103.0 AV			1.96 H	351	71.9	31.1
5	4824.00	46.1 PK	74.0	-27.9	1.55 H	353	41.6	4.5
6	4824.00	32.9 AV	54.0	-21.1	1.55 H	353	28.4	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.3 PK	74.0	-5.7	1.72 V	351	37.4	30.9
2	2390.00	52.7 AV	54.0	-1.3	1.72 V	351	21.8	30.9
3	*2412.00	113.5 PK			1.62 V	352	82.4	31.1
4	*2412.00	103.2 AV			1.62 V	352	72.1	31.1
5	4824.00	47.8 PK	74.0	-26.2	1.47 V	348	43.3	4.5
6	4824.00	34.0 AV	54.0	-20.0	1.47 V	348	29.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.8 PK	74.0	-10.2	1.84 H	351	32.9	30.9
2	2390.00	48.5 AV	54.0	-5.5	1.84 H	351	17.6	30.9
3	*2437.00	119.6 PK			1.95 H	351	88.5	31.1
4	*2437.00	108.8 AV			1.95 H	351	77.7	31.1
5	2483.50	64.5 PK	74.0	-9.5	1.93 H	355	33.2	31.3
6	2483.50	48.8 AV	54.0	-5.2	1.93 H	355	17.5	31.3
7	4874.00	47.3 PK	74.0	-26.7	1.93 H	5	42.7	4.6
8	4874.00	34.6 AV	54.0	-19.4	1.93 H	5	30.0	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.1 PK	74.0	-11.9	1.68 V	351	31.2	30.9
2	2390.00	48.3 AV	54.0	-5.7	1.68 V	351	17.4	30.9
3	*2437.00	118.2 PK			1.66 V	350	87.1	31.1
4	*2437.00	108.0 AV			1.66 V	350	76.9	31.1
5	2483.50	64.8 PK	74.0	-9.2	1.75 V	349	33.5	31.3
6	2483.50	48.9 AV	54.0	-5.1	1.75 V	349	17.6	31.3
7	4874.00	46.4 PK	74.0	-27.6	1.53 V	343	41.8	4.6
8	4874.00	34.5 AV	54.0	-19.5	1.53 V	343	29.9	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	114.6 PK			1.84 H	350	83.4	31.2
2	*2462.00	103.6 AV			1.84 H	350	72.4	31.2
3	2483.50	68.7 PK	74.0	-5.3	2.05 H	352	37.4	31.3
4	2483.50	52.6 AV	54.0	-1.4	2.05 H	352	21.3	31.3
5	4924.00	47.1 PK	74.0	-26.9	1.84 H	351	42.6	4.5
6	4924.00	33.3 AV	54.0	-20.7	1.84 H	351	28.8	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.8 PK			1.80 V	350	82.6	31.2
2	*2462.00	103.5 AV			1.80 V	350	72.3	31.2
3	2483.50	68.3 PK	74.0	-5.7	1.84 V	349	37.0	31.3
4	2483.50	52.3 AV	54.0	-1.7	1.84 V	349	21.0	31.3
5	4924.00	45.9 PK	74.0	-28.1	1.57 V	350	41.4	4.5
6	4924.00	33.8 AV	54.0	-20.2	1.57 V	350	29.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.7 PK	74.0	-5.3	1.63 H	351	37.8	30.9
2	2390.00	52.8 AV	54.0	-1.2	1.63 H	351	21.9	30.9
3	*2412.00	112.7 PK			1.77 H	352	81.6	31.1
4	*2412.00	102.2 AV			1.77 H	352	71.1	31.1
5	4824.00	45.9 PK	74.0	-28.1	1.98 H	1	41.4	4.5
6	4824.00	32.6 AV	54.0	-21.4	1.98 H	1	28.1	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.3 PK	74.0	-5.7	1.72 V	356	37.4	30.9
2	2390.00	52.6 AV	54.0	-1.4	1.72 V	356	21.7	30.9
3	*2412.00	112.2 PK			1.62 V	349	81.1	31.1
4	*2412.00	102.0 AV			1.62 V	349	70.9	31.1
5	4824.00	48.0 PK	74.0	-26.0	2.64 V	360	43.5	4.5
6	4824.00	38.3 AV	54.0	-15.7	2.64 V	360	33.8	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.0 PK	74.0	-7.0	2.02 H	347	36.1	30.9
2	2390.00	49.6 AV	54.0	-4.4	2.02 H	347	18.7	30.9
3	*2437.00	119.6 PK			1.95 H	351	88.5	31.1
4	*2437.00	108.4 AV			1.95 H	351	77.3	31.1
5	2483.50	64.4 PK	74.0	-9.6	2.06 H	353	33.1	31.3
6	2483.50	49.5 AV	54.0	-4.5	2.06 H	353	18.2	31.3
7	4874.00	45.7 PK	74.0	-28.3	1.87 H	3	41.1	4.6
8	4874.00	32.5 AV	54.0	-21.5	1.87 H	3	27.9	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.9 PK	74.0	-10.1	1.66 V	353	33.0	30.9
2	2390.00	48.8 AV	54.0	-5.2	1.66 V	353	17.9	30.9
3	*2437.00	117.5 PK			1.56 V	355	86.4	31.1
4	*2437.00	107.8 AV			1.56 V	355	76.7	31.1
5	2483.50	63.8 PK	74.0	-10.2	1.72 V	349	32.5	31.3
6	2483.50	49.7 AV	54.0	-4.3	1.72 V	349	18.4	31.3
7	4874.00	48.7 PK	74.0	-25.3	2.12 V	130	44.1	4.6
8	4874.00	37.3 AV	54.0	-16.7	2.12 V	130	32.7	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	113.5 PK			1.94 H	350	82.3	31.2
2	*2462.00	103.0 AV			1.94 H	350	71.8	31.2
3	2483.50	68.5 PK	74.0	-5.5	1.94 H	351	37.2	31.3
4	2483.50	52.8 AV	54.0	-1.2	1.94 H	351	21.5	31.3
5	4924.00	45.6 PK	74.0	-28.4	1.86 H	359	41.1	4.5
6	4924.00	32.3 AV	54.0	-21.7	1.86 H	359	27.8	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	112.7 PK			1.51 V	354	81.5	31.2
2	*2462.00	102.1 AV			1.51 V	354	70.9	31.2
3	2483.50	65.2 PK	74.0	-8.8	1.78 V	345	33.9	31.3
4	2483.50	51.3 AV	54.0	-2.7	1.78 V	345	20.0	31.3
5	4924.00	46.3 PK	74.0	-27.7	1.94 V	128	41.8	4.5
6	4924.00	36.5 AV	54.0	-17.5	1.94 V	128	32.0	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.5 PK	74.0	-8.5	2.00 H	352	34.6	30.9
2	2390.00	52.4 AV	54.0	-1.6	2.00 H	352	21.5	30.9
3	*2422.00	106.9 PK			1.86 H	351	75.8	31.1
4	*2422.00	96.8 AV			1.86 H	351	65.7	31.1
5	4844.00	46.0 PK	74.0	-28.0	2.01 H	141	41.6	4.4
6	4844.00	34.4 AV	54.0	-19.6	2.01 H	141	30.0	4.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.8 PK	74.0	-8.2	1.83 V	349	34.9	30.9
2	2390.00	52.6 AV	54.0	-1.4	1.83 V	349	21.7	30.9
3	*2422.00	105.6 PK			1.88 V	356	74.5	31.1
4	*2422.00	96.1 AV			1.88 V	356	65.0	31.1
5	4844.00	45.9 PK	74.0	-28.1	1.90 V	129	41.5	4.4
6	4844.00	35.6 AV	54.0	-18.4	1.90 V	129	31.2	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.4 PK	74.0	-7.6	1.96 H	352	35.5	30.9
2	2390.00	52.6 AV	54.0	-1.4	1.96 H	352	21.7	30.9
3	*2437.00	110.5 PK			1.96 H	353	79.4	31.1
4	*2437.00	101.1 AV			1.96 H	353	70.0	31.1
5	4874.00	45.8 PK	74.0	-28.2	2.23 H	142	41.2	4.6
6	4874.00	34.3 AV	54.0	-19.7	2.23 H	142	29.7	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.3 PK	74.0	-8.7	1.83 V	352	34.4	30.9
2	2390.00	51.2 AV	54.0	-2.8	1.83 V	352	20.3	30.9
3	*2437.00	109.8 PK			1.93 V	350	78.7	31.1
4	*2437.00	100.7 AV			1.93 V	350	69.6	31.1
5	4874.00	46.8 PK	74.0	-27.2	2.00 V	129	42.2	4.6
6	4874.00	35.5 AV	54.0	-18.5	2.00 V	129	30.9	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	108.7 PK			1.87 H	352	77.5	31.2
2	*2452.00	99.1 AV			1.87 H	352	67.9	31.2
3	2483.50	64.0 PK	74.0	-10.0	1.92 H	353	32.7	31.3
4	2483.50	52.6 AV	54.0	-1.4	1.92 H	353	21.3	31.3
5	4904.00	46.2 PK	74.0	-27.8	1.70 H	138	41.7	4.5
6	4904.00	35.0 AV	54.0	-19.0	1.70 H	138	30.5	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	108.9 PK			1.70 V	350	77.7	31.2
2	*2452.00	99.2 AV			1.70 V	350	68.0	31.2
3	2483.50	64.5 PK	74.0	-9.5	1.74 V	356	33.2	31.3
4	2483.50	52.3 AV	54.0	-1.7	1.74 V	356	21.0	31.3
5	4904.00	46.6 PK	74.0	-27.4	1.87 V	127	42.1	4.5
6	4904.00	36.3 AV	54.0	-17.7	1.87 V	127	31.8	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz worst-case data:

802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	90.17	33.8 QP	43.5	-9.7	2.00 H	204	53.5	-19.7
2	148.50	30.4 QP	43.5	-13.1	2.00 H	12	44.1	-13.7
3	202.94	29.8 QP	43.5	-13.7	1.49 H	155	46.4	-16.6
4	249.60	33.2 QP	46.0	-12.8	1.00 H	5	47.2	-14.0
5	374.04	38.5 QP	46.0	-7.5	1.00 H	64	49.0	-10.5
6	875.67	40.5 QP	46.0	-5.5	2.00 H	240	40.6	-0.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	36.64	38.3 QP	40.0	-1.7	1.00 V	288	53.8	-15.5
2	53.23	35.9 QP	40.0	-4.1	1.50 V	332	50.1	-14.2
3	72.67	35.6 QP	40.0	-4.4	1.00 V	62	52.7	-17.1
4	249.60	33.3 QP	46.0	-12.7	1.00 V	119	47.3	-14.0
5	374.04	37.2 QP	46.0	-8.8	1.00 V	276	47.7	-10.5
6	875.67	40.5 QP	46.0	-5.5	1.00 V	276	40.6	-0.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

Test Mode F

Above 1GHz worst-Case data:

802.11b

CHANNEL	TX Channel 1	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.2 PK	74.0	-15.8	1.56 H	309	27.3	30.9
2	2390.00	52.4 AV	54.0	-1.6	1.56 H	309	21.5	30.9
3	*2412.00	108.7 PK			1.61 H	308	77.6	31.1
4	*2412.00	106.5 AV			1.61 H	308	75.4	31.1
5	4824.00	52.2 PK	74.0	-21.8	1.40 H	288	47.7	4.5
6	4824.00	47.8 AV	54.0	-6.2	1.40 H	288	43.3	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.2 PK	74.0	-18.8	2.45 V	30	24.3	30.9
2	2390.00	44.4 AV	54.0	-9.6	2.45 V	30	13.5	30.9
3	*2412.00	104.8 PK			2.43 V	32	73.7	31.1
4	*2412.00	102.3 AV			2.43 V	32	71.2	31.1
5	4824.00	50.6 PK	74.0	-23.4	2.42 V	1	46.1	4.5
6	4824.00	44.9 AV	54.0	-9.1	2.42 V	1	40.4	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.3 PK	74.0	-16.7	1.38 H	315	26.4	30.9
2	2390.00	48.2 AV	54.0	-5.8	1.38 H	315	17.3	30.9
3	*2437.00	110.4 PK			1.36 H	314	79.3	31.1
4	*2437.00	108.5 AV			1.36 H	314	77.4	31.1
5	2483.50	58.1 PK	74.0	-15.9	1.33 H	318	26.8	31.3
6	2483.50	47.7 AV	54.0	-6.3	1.33 H	318	16.4	31.3
7	4874.00	51.2 PK	74.0	-22.8	1.06 H	279	46.6	4.6
8	4874.00	46.5 AV	54.0	-7.5	1.06 H	279	41.9	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.3 PK	74.0	-18.7	1.93 V	29	24.4	30.9
2	2390.00	44.9 AV	54.0	-9.1	1.93 V	29	14.0	30.9
3	*2437.00	104.1 PK			1.95 V	31	73.0	31.1
4	*2437.00	101.8 AV			1.95 V	31	70.7	31.1
5	2483.50	56.0 PK	74.0	-18.0	1.88 V	36	24.7	31.3
6	2483.50	44.3 AV	54.0	-9.7	1.88 V	36	13.0	31.3
7	4874.00	49.2 PK	74.0	-24.8	2.16 V	0	44.6	4.6
8	4874.00	42.8 AV	54.0	-11.2	2.16 V	0	38.2	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.5 PK			1.55 H	313	78.3	31.2
2	*2462.00	107.6 AV			1.55 H	313	76.4	31.2
3	2483.50	58.9 PK	74.0	-15.1	1.58 H	316	27.6	31.3
4	2483.50	52.4 AV	54.0	-1.6	1.58 H	316	21.1	31.3
5	4924.00	48.0 PK	74.0	-26.0	1.92 H	330	43.5	4.5
6	4924.00	41.1 AV	54.0	-12.9	1.92 H	330	36.6	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.8 PK			1.90 V	37	73.6	31.2
2	*2462.00	102.7 AV			1.90 V	37	71.5	31.2
3	2483.50	56.2 PK	74.0	-17.8	1.88 V	54	24.9	31.3
4	2483.50	45.5 AV	54.0	-8.5	1.88 V	54	14.2	31.3
5	4924.00	49.5 PK	74.0	-24.5	2.55 V	309	45.0	4.5
6	4924.00	42.2 AV	54.0	-11.8	2.55 V	309	37.7	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.7 PK	74.0	-8.3	2.06 H	305	34.8	30.9
2	2390.00	52.4 AV	54.0	-1.6	2.06 H	305	21.5	30.9
3	*2412.00	108.3 PK			1.44 H	313	77.2	31.1
4	*2412.00	97.8 AV			1.44 H	313	66.7	31.1
5	4824.00	46.2 PK	74.0	-27.8	1.90 H	326	41.7	4.5
6	4824.00	34.6 AV	54.0	-19.4	1.90 H	326	30.1	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.3 PK	74.0	-12.7	1.94 V	34	30.4	30.9
2	2390.00	48.1 AV	54.0	-5.9	1.94 V	34	17.2	30.9
3	*2412.00	102.3 PK			2.05 V	30	71.2	31.1
4	*2412.00	92.4 AV			2.05 V	30	61.3	31.1
5	4824.00	46.1 PK	74.0	-27.9	2.18 V	4	41.6	4.5
6	4824.00	35.0 AV	54.0	-19.0	2.18 V	4	30.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.9 PK	74.0	-11.1	1.29 H	306	32.0	30.9
2	2390.00	50.5 AV	54.0	-3.5	1.29 H	306	19.6	30.9
3	*2437.00	110.4 PK			1.24 H	314	79.3	31.1
4	*2437.00	101.2 AV			1.24 H	314	70.1	31.1
5	2483.50	64.3 PK	74.0	-9.7	1.15 H	316	33.0	31.3
6	2483.50	52.3 AV	54.0	-1.7	1.15 H	316	21.0	31.3
7	4874.00	49.4 PK	74.0	-24.6	1.02 H	279	44.8	4.6
8	4874.00	36.1 AV	54.0	-17.9	1.02 H	279	31.5	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.2 PK	74.0	-16.8	1.71 V	11	26.3	30.9
2	2390.00	45.3 AV	54.0	-8.7	1.71 V	11	14.4	30.9
3	*2437.00	105.9 PK			2.36 V	24	74.8	31.1
4	*2437.00	95.6 AV			2.36 V	24	64.5	31.1
5	2483.50	58.5 PK	74.0	-15.5	1.67 V	39	27.2	31.3
6	2483.50	46.4 AV	54.0	-7.6	1.67 V	39	15.1	31.3
7	4874.00	46.8 PK	74.0	-27.2	2.05 V	223	42.2	4.6
8	4874.00	33.4 AV	54.0	-20.6	2.05 V	223	28.8	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.9 PK			1.13 H	319	73.7	31.2
2	*2462.00	94.7 AV			1.13 H	319	63.5	31.2
3	2483.50	67.9 PK	74.0	-6.1	1.19 H	318	36.6	31.3
4	2483.50	52.5 AV	54.0	-1.5	1.19 H	318	21.2	31.3
5	4924.00	44.7 PK	74.0	-29.3	1.86 H	93	40.2	4.5
6	4924.00	32.6 AV	54.0	-21.4	1.86 H	93	28.1	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	102.0 PK			1.87 V	35	70.8	31.2
2	*2462.00	91.6 AV			1.87 V	35	60.4	31.2
3	2483.50	63.5 PK	74.0	-10.5	2.24 V	38	32.2	31.3
4	2483.50	49.0 AV	54.0	-5.0	2.24 V	38	17.7	31.3
5	4924.00	45.3 PK	74.0	-28.7	2.04 V	258	40.8	4.5
6	4924.00	31.8 AV	54.0	-22.2	2.04 V	258	27.3	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	2.05 H	309	35.7	30.9
2	2390.00	52.4 AV	54.0	-1.6	2.05 H	309	21.5	30.9
3	*2412.00	107.1 PK			1.40 H	312	76.0	31.1
4	*2412.00	97.3 AV			1.40 H	312	66.2	31.1
5	4824.00	45.1 PK	74.0	-28.9	1.58 H	226	40.6	4.5
6	4824.00	32.9 AV	54.0	-21.1	1.58 H	226	28.4	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	61.7 PK	74.0	-12.3	1.94 V	29	30.8	30.9
2	2390.00	48.6 AV	54.0	-5.4	1.94 V	29	17.7	30.9
3	*2412.00	101.8 PK			2.14 V	28	70.7	31.1
4	*2412.00	92.0 AV			2.14 V	28	60.9	31.1
5	4824.00	45.1 PK	74.0	-28.9	2.54 V	299	40.6	4.5
6	4824.00	32.0 AV	54.0	-22.0	2.54 V	299	27.5	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.5 PK	74.0	-11.5	2.22 H	304	31.6	30.9
2	2390.00	49.2 AV	54.0	-4.8	2.22 H	304	18.3	30.9
3	*2437.00	110.7 PK			1.36 H	313	79.6	31.1
4	*2437.00	100.7 AV			1.36 H	313	69.6	31.1
5	2483.50	64.2 PK	74.0	-9.8	1.16 H	321	32.9	31.3
6	2483.50	50.6 AV	54.0	-3.4	1.16 H	321	19.3	31.3
7	4874.00	48.8 PK	74.0	-25.2	2.85 H	281	44.2	4.6
8	4874.00	34.2 AV	54.0	-19.8	2.85 H	281	29.6	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.7 PK	74.0	-16.3	1.96 V	24	26.8	30.9
2	2390.00	45.3 AV	54.0	-8.7	1.96 V	24	14.4	30.9
3	*2437.00	106.2 PK			2.35 V	27	75.1	31.1
4	*2437.00	95.9 AV			2.35 V	27	64.8	31.1
5	2483.50	58.6 PK	74.0	-15.4	2.23 V	37	27.3	31.3
6	2483.50	46.2 AV	54.0	-7.8	2.23 V	37	14.9	31.3
7	4874.00	46.4 PK	74.0	-27.6	1.35 V	358	41.8	4.6
8	4874.00	33.4 AV	54.0	-20.6	1.35 V	358	28.8	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 11	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.5 PK			1.20 H	319	73.3	31.2
2	*2462.00	94.5 AV			1.20 H	319	63.3	31.2
3	2483.50	66.6 PK	74.0	-7.4	1.17 H	323	35.3	31.3
4	2483.50	52.8 AV	54.0	-1.2	1.17 H	323	21.5	31.3
5	4924.00	45.8 PK	74.0	-28.2	2.56 H	241	41.3	4.5
6	4924.00	32.6 AV	54.0	-21.4	2.56 H	241	28.1	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	99.5 PK			1.90 V	23	68.3	31.2
2	*2462.00	89.8 AV			1.90 V	23	58.6	31.2
3	2483.50	61.9 PK	74.0	-12.1	1.67 V	51	30.6	31.3
4	2483.50	47.6 AV	54.0	-6.4	1.67 V	51	16.3	31.3
5	4924.00	45.8 PK	74.0	-28.2	2.06 V	300	41.3	4.5
6	4924.00	32.6 AV	54.0	-21.4	2.06 V	300	28.1	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.2 PK	74.0	-8.8	1.42 H	311	34.3	30.9
2	2390.00	52.5 AV	54.0	-1.5	1.42 H	311	21.6	30.9
3	*2422.00	100.0 PK			1.43 H	311	68.9	31.1
4	*2422.00	89.8 AV			1.43 H	311	58.7	31.1
5	4844.00	45.8 PK	74.0	-28.2	1.86 H	250	41.4	4.4
6	4844.00	32.2 AV	54.0	-21.8	1.86 H	250	27.8	4.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	1.52 V	30	27.1	30.9
2	2390.00	45.7 AV	54.0	-8.3	1.52 V	30	14.8	30.9
3	*2422.00	93.1 PK			1.54 V	23	62.0	31.1
4	*2422.00	83.6 AV			1.54 V	23	52.5	31.1
5	4844.00	45.2 PK	74.0	-28.8	2.05 V	273	40.8	4.4
6	4844.00	32.0 AV	54.0	-22.0	2.05 V	273	27.6	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.8 PK	74.0	-14.2	1.45 H	314	28.9	30.9
2	2390.00	47.6 AV	54.0	-6.4	1.45 H	314	16.7	30.9
3	*2437.00	103.3 PK			1.26 H	316	72.2	31.1
4	*2437.00	93.5 AV			1.26 H	316	62.4	31.1
5	2483.50	65.3 PK	74.0	-8.7	1.26 H	318	34.0	31.3
6	2483.50	52.8 AV	54.0	-1.2	1.26 H	318	21.5	31.3
7	4874.00	45.8 PK	74.0	-28.2	1.75 H	254	41.2	4.6
8	4874.00	32.2 AV	54.0	-21.8	1.75 H	254	27.6	4.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.7 PK	74.0	-18.3	1.69 V	42	24.8	30.9
2	2390.00	43.7 AV	54.0	-10.3	1.69 V	42	12.8	30.9
3	*2437.00	98.2 PK			2.04 V	32	67.1	31.1
4	*2437.00	88.2 AV			2.04 V	32	57.1	31.1
5	2483.50	60.8 PK	74.0	-13.2	1.66 V	38	29.5	31.3
6	2483.50	47.7 AV	54.0	-6.3	1.66 V	38	16.4	31.3
7	4874.00	45.6 PK	74.0	-28.4	2.04 V	298	41.0	4.6
8	4874.00	32.4 AV	54.0	-21.6	2.04 V	298	27.8	4.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	97.6 PK			1.36 H	316	66.4	31.2
2	*2452.00	87.6 AV			1.36 H	316	56.4	31.2
3	2483.50	63.9 PK	74.0	-10.1	1.19 H	322	32.6	31.3
4	2483.50	52.8 AV	54.0	-1.2	1.19 H	322	21.5	31.3
5	4904.00	45.7 PK	74.0	-28.3	1.52 H	263	41.2	4.5
6	4904.00	32.8 AV	54.0	-21.2	1.52 H	263	28.3	4.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	93.6 PK			2.27 V	31	62.4	31.2
2	*2452.00	83.6 AV			2.27 V	31	52.4	31.2
3	2483.50	58.6 PK	74.0	-15.4	2.22 V	36	27.3	31.3
4	2483.50	47.5 AV	54.0	-6.5	2.22 V	36	16.2	31.3
5	4904.00	45.5 PK	74.0	-28.5	2.46 V	302	41.0	4.5
6	4904.00	32.6 AV	54.0	-21.4	2.46 V	302	28.1	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.

Below 1GHz worst-case data:

802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	94.06	27.2 QP	43.5	-16.3	2.00 H	280	46.8	-19.6
2	179.61	28.1 QP	43.5	-15.4	1.50 H	266	43.2	-15.1
3	204.89	27.7 QP	43.5	-15.8	1.00 H	148	44.2	-16.5
4	671.52	31.3 QP	46.0	-14.7	1.00 H	3	35.4	-4.1
5	875.07	43.4 QP	46.0	-2.6	1.99 H	307	43.5	-0.1
6	1000.00	34.0 QP	54.0	-20.0	1.50 H	333	32.0	2.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	45.45	31.8 QP	40.0	-8.2	1.00 V	295	46.5	-14.7
2	72.67	32.9 QP	40.0	-7.1	2.00 V	182	50.0	-17.1
3	148.50	28.1 QP	43.5	-15.4	1.50 V	317	41.8	-13.7
4	204.89	26.6 QP	43.5	-16.9	1.00 V	87	43.1	-16.5
5	624.85	33.7 QP	46.0	-12.3	1.50 V	342	38.4	-4.7
6	1000.00	33.4 QP	54.0	-20.6	2.00 V	8	31.4	2.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCS30	100289	Dec. 23, 2015	Dec. 22, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 11, 2016	Jan. 10, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 26, 2016	Jul. 25, 2017
Software ADT	BV ADT_Conc_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 2.
 3. The VCCI Site Registration No. is C-2047.

4.2.3 Test Procedures

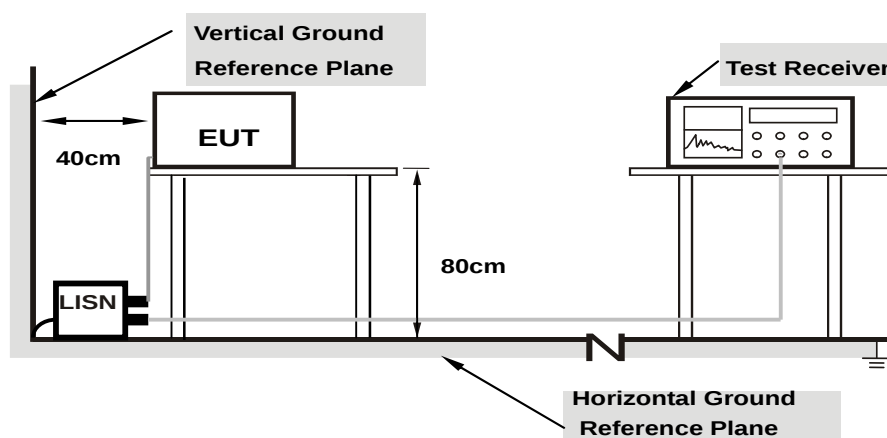
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

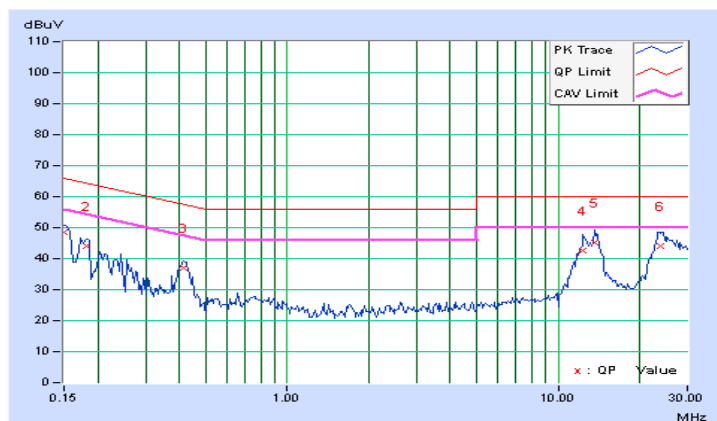
Test Mode A

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	38.47	28.51	48.59	38.63	66.00	56.00	-17.41	-17.37
2	0.18125	10.14	33.93	22.86	44.07	33.00	64.43	54.43	-20.36	-21.43
3	0.41563	10.19	26.97	18.63	37.16	28.82	57.54	47.54	-20.38	-18.72
4	12.37109	10.51	32.24	26.91	42.75	37.42	60.00	50.00	-17.25	-12.58
5	13.61719	10.52	34.63	29.19	45.15	39.71	60.00	50.00	-14.85	-10.29
6	23.87891	10.53	33.50	27.98	44.03	38.51	60.00	50.00	-15.97	-11.49

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

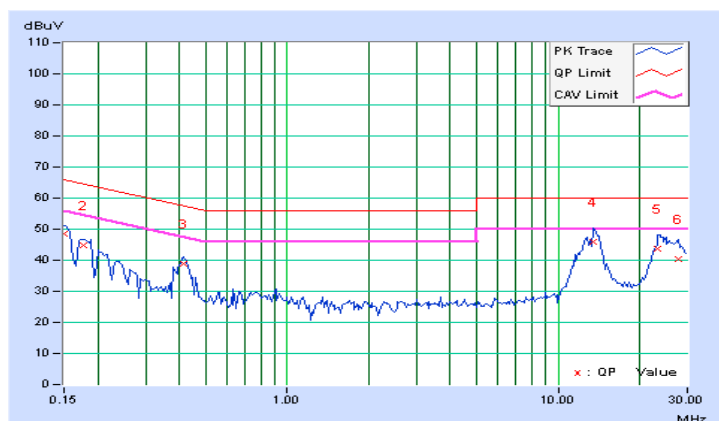


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	38.55	29.14	48.68	39.27	66.00	56.00	-17.32	-16.73
2	0.17734	10.15	34.48	23.73	44.63	33.88	64.61	54.61	-19.98	-20.73
3	0.41563	10.19	28.86	20.31	39.05	30.50	57.54	47.54	-18.49	-17.04
4	13.55859	10.62	35.48	30.06	46.10	40.68	60.00	50.00	-13.90	-9.32
5	23.38281	10.70	33.12	27.56	43.82	38.26	60.00	50.00	-16.18	-11.74
6	27.93359	10.59	29.87	24.17	40.46	34.76	60.00	50.00	-19.54	-15.24

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



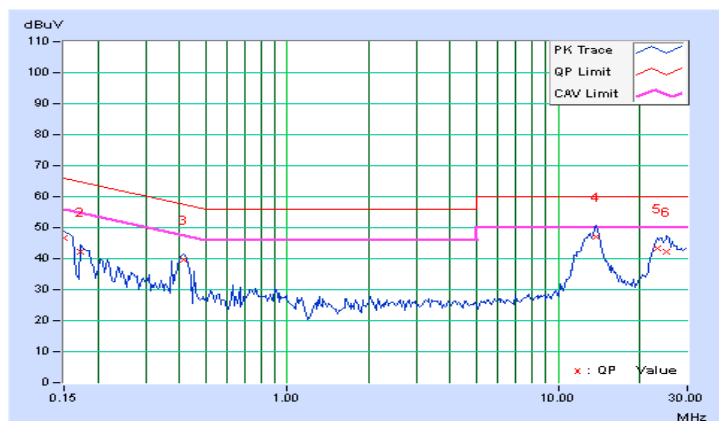
Test Mode B

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	36.66	27.64	46.78	37.76	66.00	56.00	-19.22	-18.24
2	0.17344	10.14	32.09	18.89	42.23	29.03	64.79	54.79	-22.56	-25.76
3	0.41563	10.19	29.39	21.51	39.58	31.70	57.54	47.54	-17.96	-15.84
4	13.76953	10.52	36.50	30.96	47.02	41.48	60.00	50.00	-12.98	-8.52
5	23.30078	10.55	32.90	27.50	43.45	38.05	60.00	50.00	-16.55	-11.95
6	25.03906	10.51	31.80	26.49	42.31	37.00	60.00	50.00	-17.69	-13.00

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

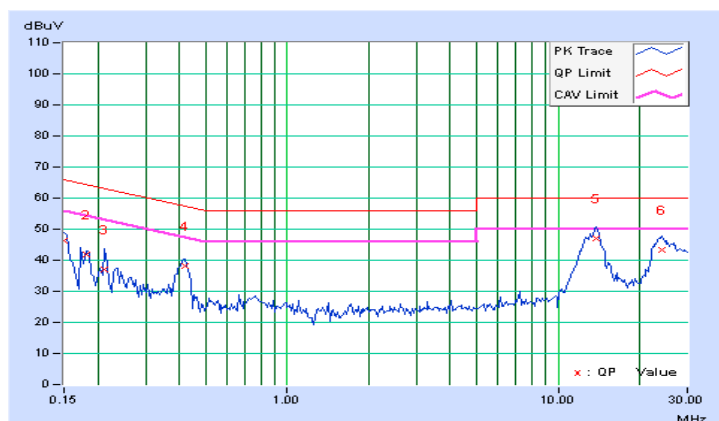


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.23	26.91	46.36	37.04	66.00	56.00	-19.64	-18.96
2	0.18125	10.15	31.58	21.44	41.73	31.59	64.43	54.43	-22.70	-22.84
3	0.21250	10.16	27.06	17.70	37.22	27.86	63.11	53.11	-25.89	-25.25
4	0.41953	10.19	27.86	20.07	38.05	30.26	57.46	47.46	-19.41	-17.20
5	13.73438	10.63	36.41	30.81	47.04	41.44	60.00	50.00	-12.96	-8.56
6	24.05469	10.68	32.82	27.50	43.50	38.18	60.00	50.00	-16.50	-11.82

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



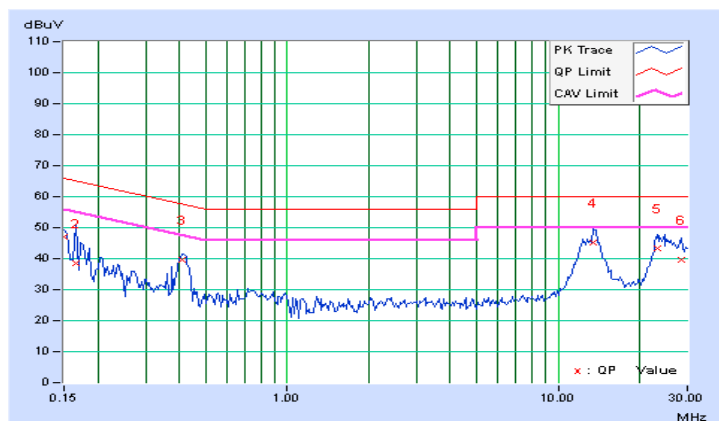
Test Mode C

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	37.00	27.90	47.12	38.02	66.00	56.00	-18.88	-17.98
2	0.16562	10.13	28.35	9.97	38.48	20.10	65.18	55.18	-26.70	-35.08
3	0.41172	10.19	29.39	21.41	39.58	31.60	57.61	47.61	-18.03	-16.01
4	13.51563	10.52	34.58	29.16	45.10	39.68	60.00	50.00	-14.90	-10.32
5	23.24609	10.55	32.75	27.33	43.30	37.88	60.00	50.00	-16.70	-12.12
6	28.33594	10.44	29.26	24.15	39.70	34.59	60.00	50.00	-20.30	-15.41

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

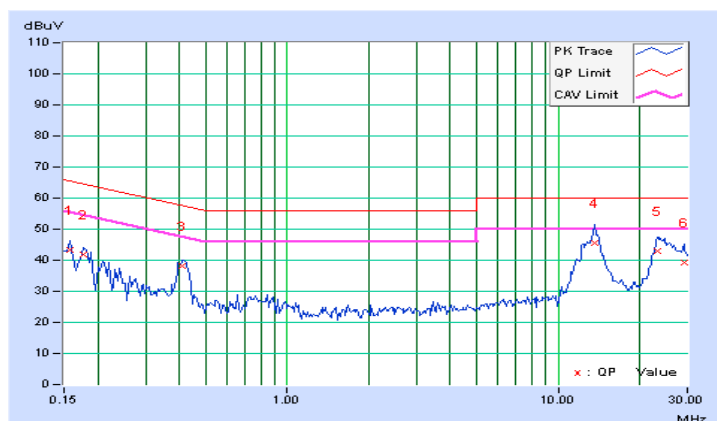


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15781	10.13	33.02	20.05	43.15	30.18	65.58	55.58	-22.43	-25.40
2	0.17734	10.15	31.67	21.42	41.82	31.57	64.61	54.61	-22.79	-23.04
3	0.41172	10.19	27.88	20.05	38.07	30.24	57.61	47.61	-19.54	-17.37
4	13.64063	10.63	34.94	29.55	45.57	40.18	60.00	50.00	-14.43	-9.82
5	23.19141	10.71	32.35	26.94	43.06	37.65	60.00	50.00	-16.94	-12.35
6	29.14844	10.56	28.85	23.62	39.41	34.18	60.00	50.00	-20.59	-15.82

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



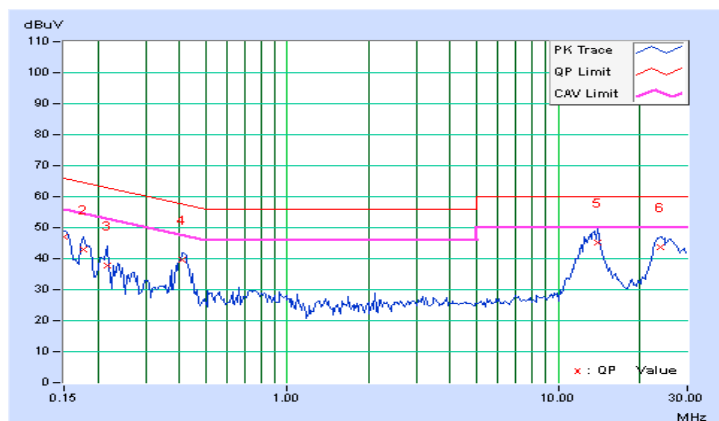
Test Mode D

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	36.92	27.82	47.04	37.94	66.00	56.00	-18.96	-18.06
2	0.17734	10.14	32.73	21.78	42.87	31.92	64.61	54.61	-21.74	-22.69
3	0.21641	10.16	27.69	17.30	37.85	27.46	62.96	52.96	-25.11	-25.50
4	0.41172	10.19	29.35	21.43	39.54	31.62	57.61	47.61	-18.07	-15.99
5	13.96875	10.52	34.59	29.09	45.11	39.61	60.00	50.00	-14.89	-10.39
6	23.75391	10.54	33.10	27.72	43.64	38.26	60.00	50.00	-16.36	-11.74

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

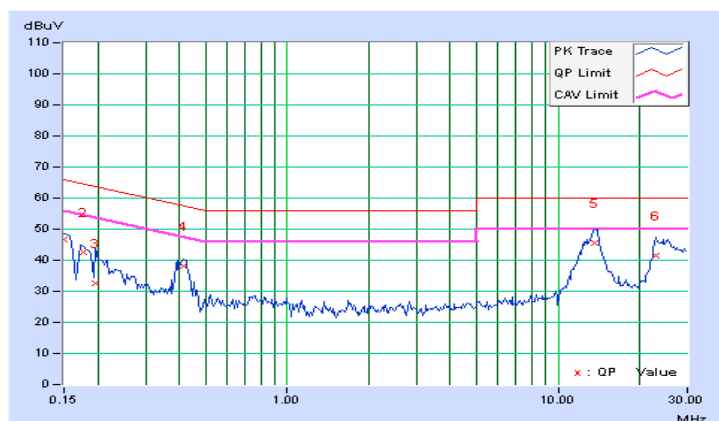


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.42	26.89	46.55	37.02	66.00	56.00	-19.45	-18.98
2	0.17734	10.15	32.54	21.36	42.69	31.51	64.61	54.61	-21.92	-23.10
3	0.19687	10.16	22.56	8.46	32.72	18.62	63.74	53.74	-31.02	-35.12
4	0.41563	10.19	27.88	19.85	38.07	30.04	57.54	47.54	-19.47	-17.50
5	13.62891	10.63	34.94	29.57	45.57	40.20	60.00	50.00	-14.43	-9.80
6	22.83203	10.72	30.62	25.52	41.34	36.24	60.00	50.00	-18.66	-13.76

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



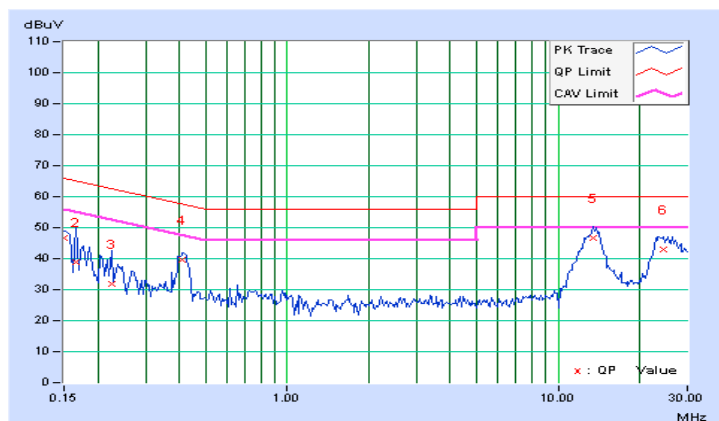
Test Mode E

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	36.70	27.76	46.82	37.88	66.00	56.00	-19.18	-18.12
2	0.16562	10.13	28.76	9.31	38.89	19.44	65.18	55.18	-26.29	-35.74
3	0.22422	10.16	21.73	5.69	31.89	15.85	62.66	52.66	-30.77	-36.81
4	0.41172	10.19	29.43	21.45	39.62	31.64	57.61	47.61	-17.99	-15.97
5	13.54688	10.52	36.32	30.72	46.84	41.24	60.00	50.00	-13.16	-8.76
6	24.63281	10.52	32.27	26.96	42.79	37.48	60.00	50.00	-17.21	-12.52

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

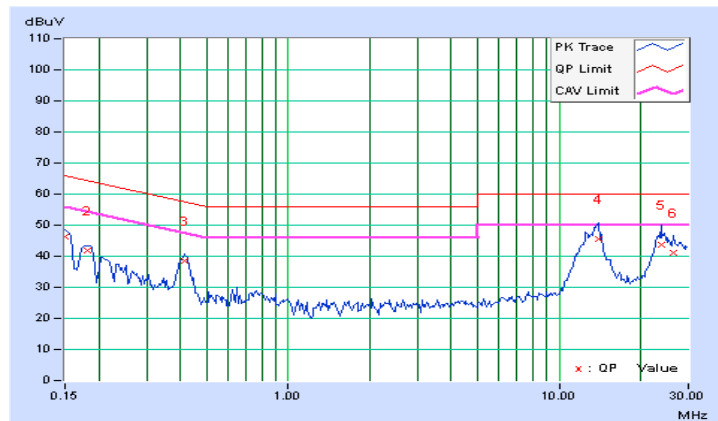


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.25	26.85	46.38	36.98	66.00	56.00	-19.62	-19.02
2	0.18125	10.15	31.64	21.56	41.79	31.71	64.43	54.43	-22.64	-22.72
3	0.41563	10.19	28.49	19.79	38.68	29.98	57.54	47.54	-18.86	-17.56
4	14.01172	10.63	35.00	29.57	45.63	40.20	60.00	50.00	-14.37	-9.80
5	23.86719	10.69	33.04	27.56	43.73	38.25	60.00	50.00	-16.27	-11.75
6	26.33203	10.63	30.45	25.35	41.08	35.98	60.00	50.00	-18.92	-14.02

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



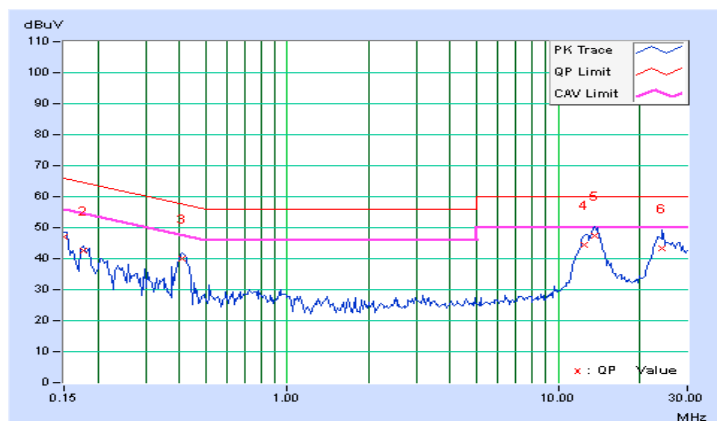
Test Mode F

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.12	36.78	27.54	46.90	37.66	66.00	56.00	-19.10	-18.34
2	0.17734	10.14	32.46	22.07	42.60	32.21	64.61	54.61	-22.01	-22.40
3	0.40781	10.19	29.97	21.43	40.16	31.62	57.69	47.69	-17.53	-16.07
4	12.52344	10.51	33.80	28.37	44.31	38.88	60.00	50.00	-15.69	-11.12
5	13.58984	10.52	36.75	31.58	47.27	42.10	60.00	50.00	-12.73	-7.90
6	24.31250	10.53	32.86	27.33	43.39	37.86	60.00	50.00	-16.61	-12.14

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

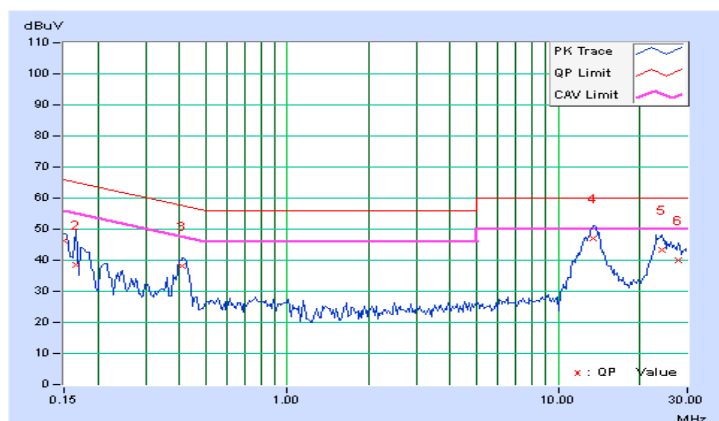


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.13	36.17	26.83	46.30	36.96	66.00	56.00	-19.70	-19.04
2	0.16562	10.14	28.29	8.67	38.43	18.81	65.18	55.18	-26.75	-36.37
3	0.41172	10.19	28.10	20.05	38.29	30.24	57.61	47.61	-19.32	-17.37
4	13.53906	10.62	36.30	30.64	46.92	41.26	60.00	50.00	-13.08	-8.74
5	24.13281	10.68	32.77	27.27	43.45	37.95	60.00	50.00	-16.55	-12.05
6	27.91016	10.59	29.39	24.18	39.98	34.77	60.00	50.00	-20.02	-15.23

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

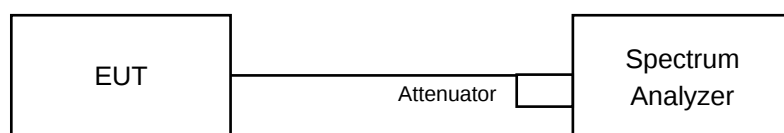


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = average.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

Test Mode A

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.11	8.11	0.5	Pass
6	2437	7.62	8.12	0.5	Pass
11	2462	7.61	8.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.41	0.5	Pass
6	2437	16.36	16.35	0.5	Pass
11	2462	16.39	16.39	0.5	Pass

802.11n (HT20)

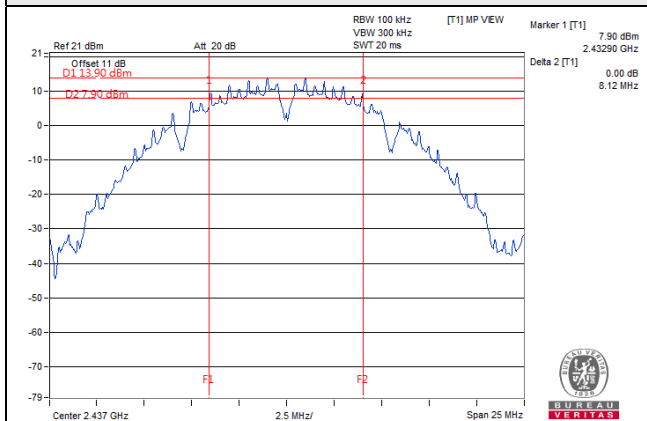
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.63	17.61	0.5	Pass
6	2437	17.62	17.34	0.5	Pass
11	2462	17.60	17.60	0.5	Pass

802.11n (HT40)

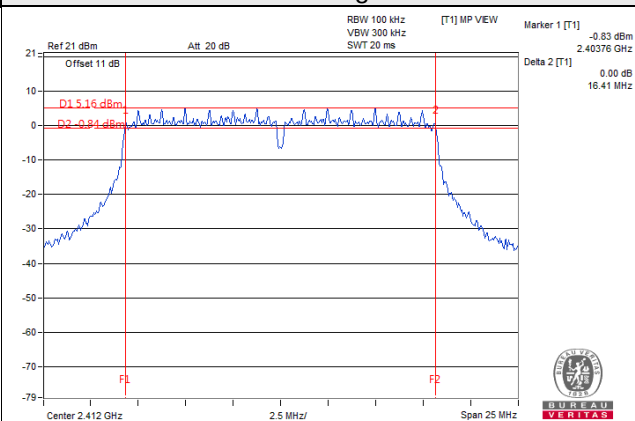
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.21	35.26	0.5	Pass
6	2437	35.21	35.24	0.5	Pass
9	2452	35.21	35.13	0.5	Pass

Spectrum Plot of Worst Value

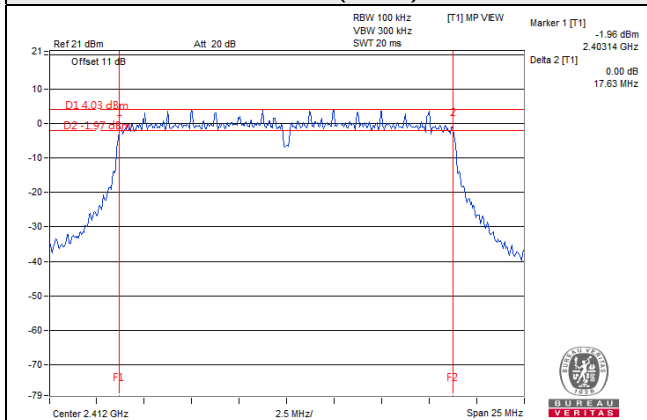
802.11b



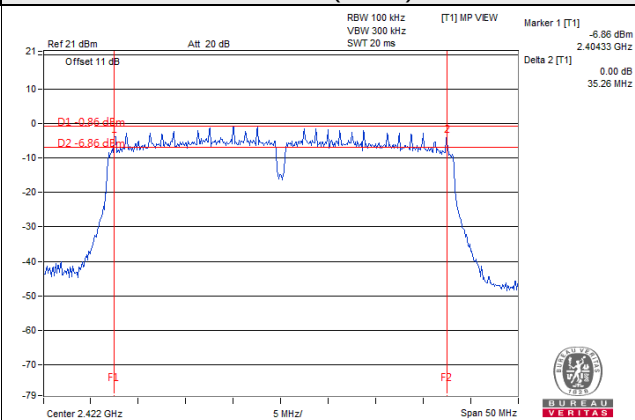
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode B

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.10	8.11	0.5	Pass
6	2437	8.12	8.12	0.5	Pass
11	2462	8.11	8.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.41	0.5	Pass
6	2437	16.35	16.37	0.5	Pass
11	2462	16.40	16.40	0.5	Pass

802.11n (HT20)

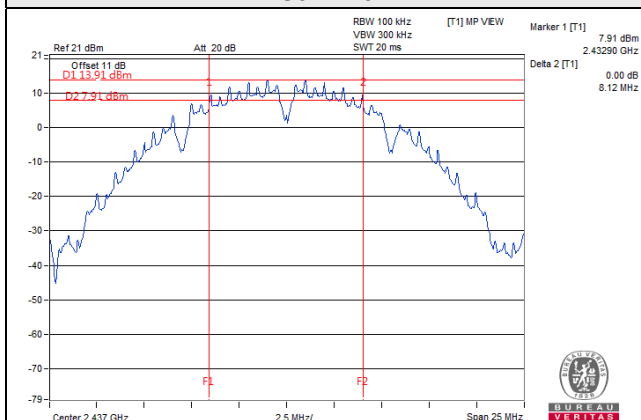
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.62	17.61	0.5	Pass
6	2437	17.60	17.35	0.5	Pass
11	2462	17.60	17.60	0.5	Pass

802.11n (HT40)

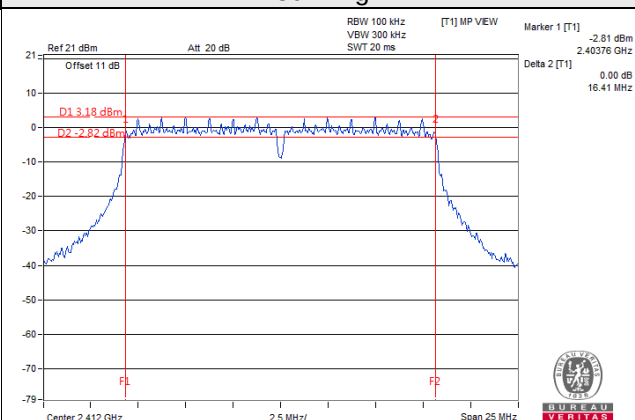
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.31	35.22	0.5	Pass
6	2437	35.25	35.24	0.5	Pass
9	2452	35.25	35.39	0.5	Pass

Spectrum Plot of Worst Value

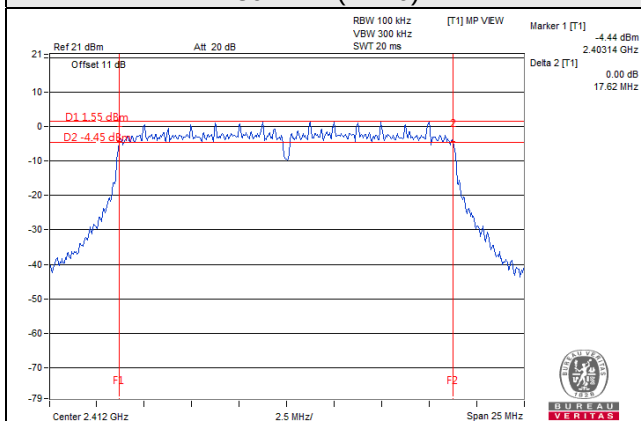
802.11b



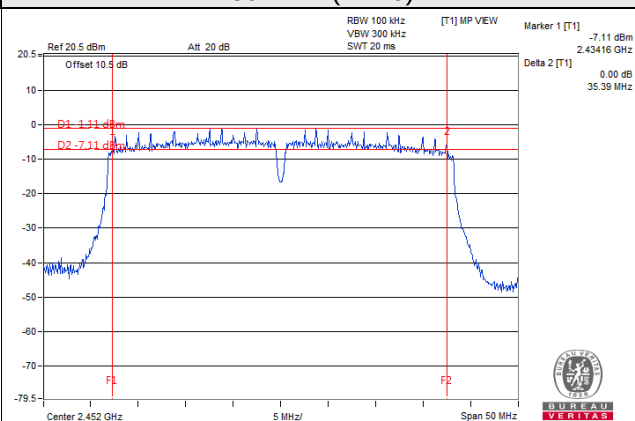
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode C

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.11	7.61	0.5	Pass
6	2437	7.62	8.12	0.5	Pass
11	2462	8.11	8.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.41	0.5	Pass
6	2437	16.35	16.35	0.5	Pass
11	2462	16.39	16.39	0.5	Pass

802.11n (HT20)

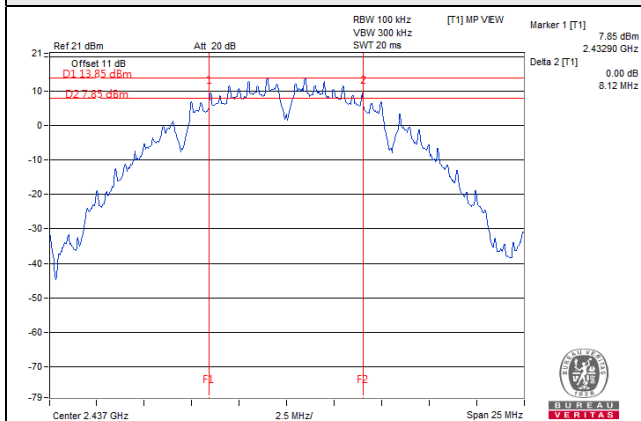
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.62	17.61	0.5	Pass
6	2437	17.59	17.60	0.5	Pass
11	2462	17.62	17.62	0.5	Pass

802.11n (HT40)

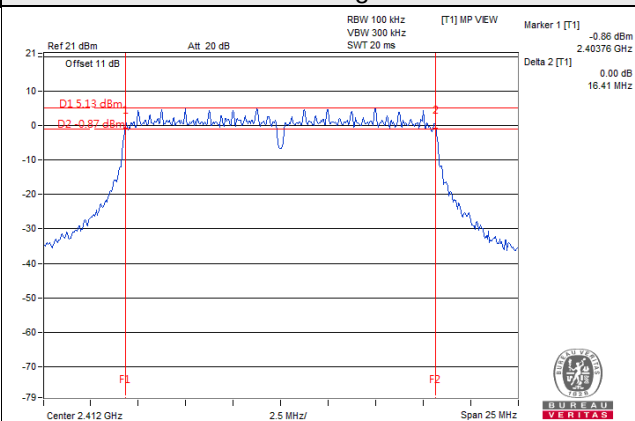
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	34.25	35.27	0.5	Pass
6	2437	35.18	35.45	0.5	Pass
9	2452	35.04	35.21	0.5	Pass

Spectrum Plot of Worst Value

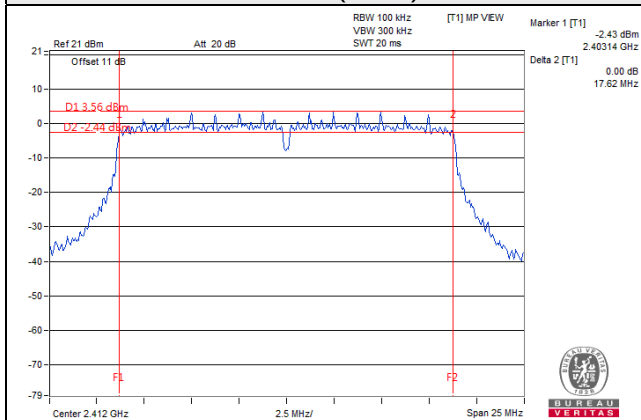
802.11b



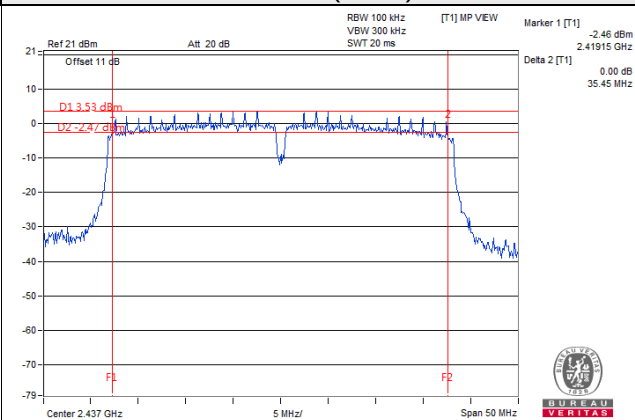
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode D

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	8.10	8.11	0.5	Pass
6	2437	7.63	8.12	0.5	Pass
11	2462	8.11	7.61	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.40	0.5	Pass
6	2437	16.35	16.36	0.5	Pass
11	2462	16.39	16.40	0.5	Pass

802.11n (HT20)

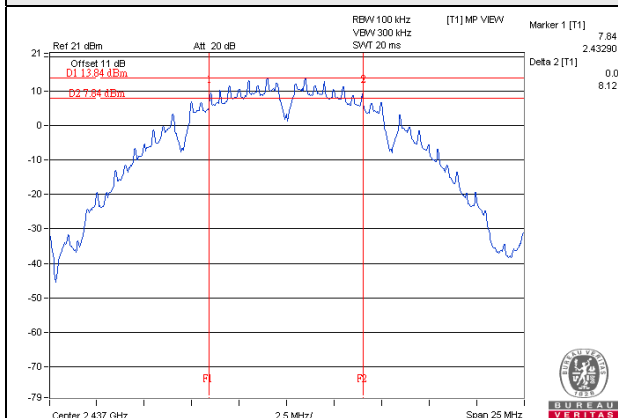
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.61	17.62	0.5	Pass
6	2437	17.60	17.35	0.5	Pass
11	2462	17.60	17.60	0.5	Pass

802.11n (HT40)

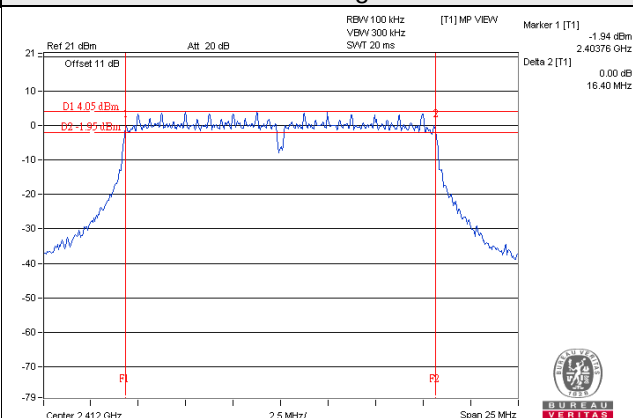
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.31	35.19	0.5	Pass
6	2437	35.19	35.24	0.5	Pass
9	2452	35.23	35.19	0.5	Pass

Spectrum Plot of Worst Value

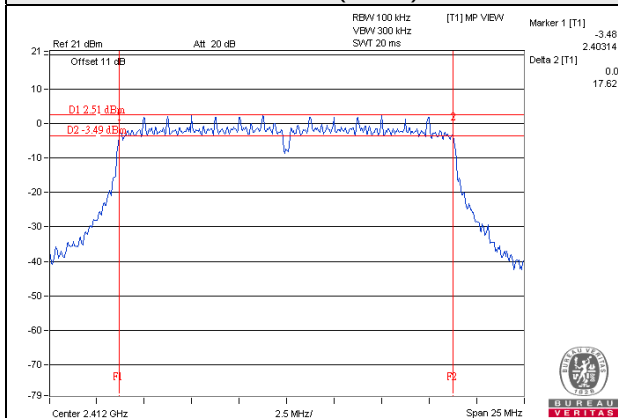
802.11b



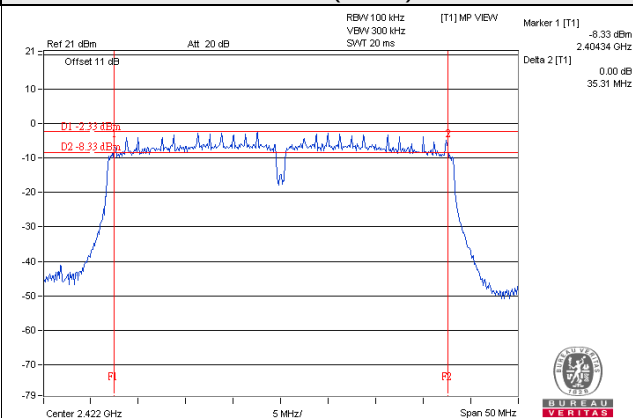
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode E

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	7.61	7.62	0.5	Pass
6	2437	8.11	8.11	0.5	Pass
11	2462	8.11	8.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	16.39	16.41	0.5	Pass
6	2437	16.36	16.37	0.5	Pass
11	2462	16.39	16.39	0.5	Pass

802.11n (HT20)

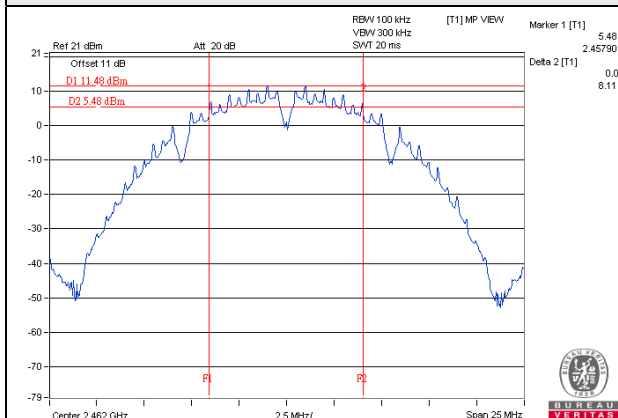
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
1	2412	17.63	17.62	0.5	Pass
6	2437	17.60	17.35	0.5	Pass
11	2462	17.61	17.60	0.5	Pass

802.11n (HT40)

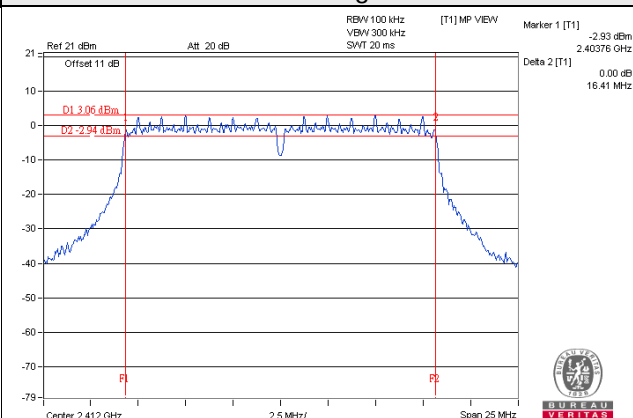
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
3	2422	35.36	35.25	0.5	Pass
6	2437	35.18	35.23	0.5	Pass
9	2452	35.14	35.19	0.5	Pass

Spectrum Plot of Worst Value

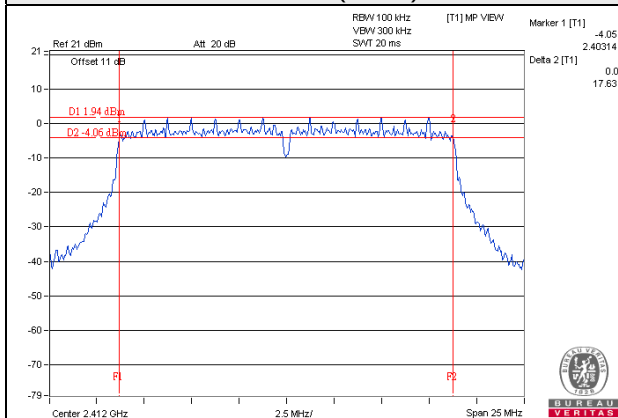
802.11b



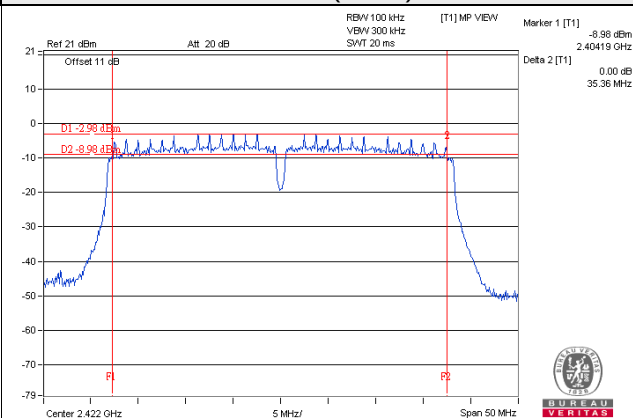
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode F

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.09	0.5	Pass
6	2437	7.07	0.5	Pass
11	2462	7.11	0.5	Pass

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.10	0.5	Pass
6	2437	16.08	0.5	Pass
11	2462	16.08	0.5	Pass

802.11n (HT20)

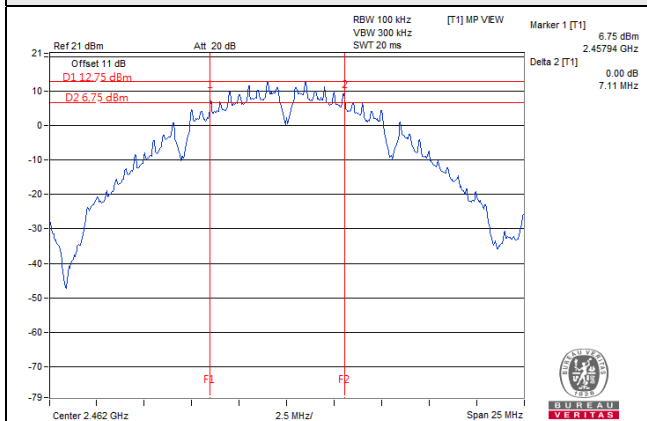
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.90	0.5	Pass
6	2437	16.91	0.5	Pass
11	2462	16.86	0.5	Pass

802.11n (HT40)

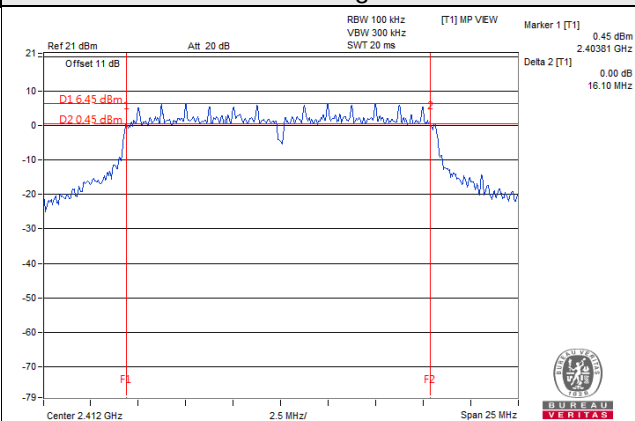
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.34	0.5	Pass
6	2437	35.27	0.5	Pass
9	2452	35.52	0.5	Pass

Spectrum Plot of Worst Value

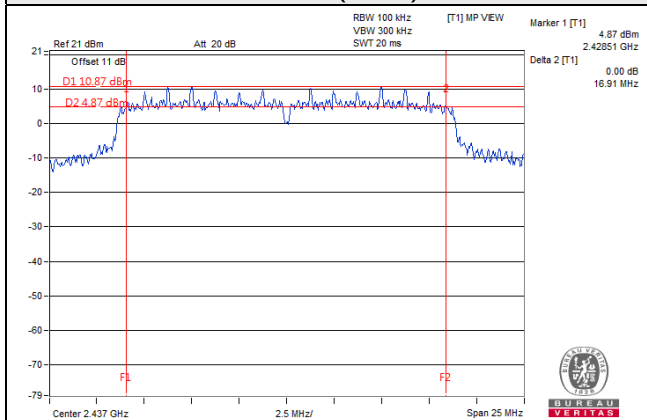
802.11b



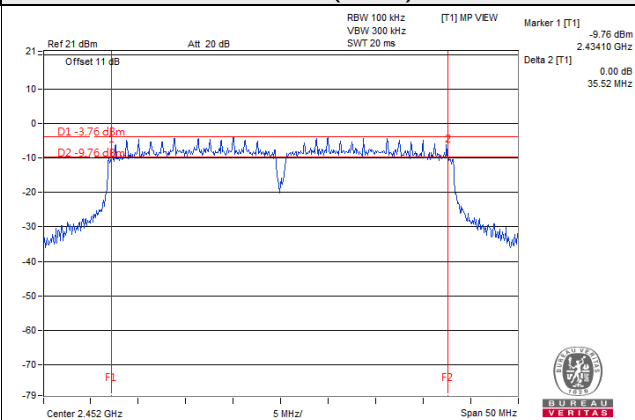
802.11g



802.11n (HT20)



802.11n (HT40)



4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30dBm)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

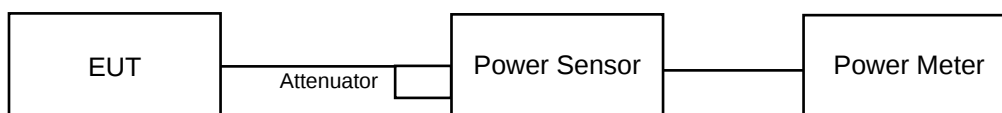
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

Test Mode A, B, C, D, E

An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor. Record the power level.

Test Mode F

A peak / average power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak / average power sensor. Record the power level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as item 4.3.6.

4.4.7 Test Results

Test Mode A, CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.07	21.12	231.045	23.64	30	Pass
6	2437	21.31	22.11	297.762	24.74	30	Pass
11	2462	20.76	20.62	234.469	23.70	30	Pass

Note: Gain = 4dBi < 6dBi, so the limit no need to be reduced.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.62	16.50	81.143	19.09	30	Pass
6	2437	21.79	22.36	323.195	25.09	30	Pass
11	2462	15.87	15.93	77.811	18.91	30	Pass

Note: Gain = 4dBi < 6dBi, so the limit no need to be reduced.

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.69	15.46	64.600	18.10	30	Pass
6	2437	21.30	21.74	284.175	24.54	30	Pass
11	2462	15.85	15.82	76.653	18.85	30	Pass

Note: Gain = 4dBi < 6dBi, so the limit no need to be reduced.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	11.67	12.55	32.678	15.14	30	Pass
6	2437	15.44	16.26	77.262	18.88	30	Pass
9	2452	14.98	15.46	66.633	18.24	30	Pass

Note: Gain = 4dBi < 6dBi, so the limit no need to be reduced.

Test Mode A, Beamforming Mode

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	11.68	12.45	32.302	15.09	28.99	Pass
6	2437	18.29	18.73	142.098	21.53	28.99	Pass
11	2462	12.84	12.81	38.330	15.84	28.99	Pass

Note: Directional gain = $4 + 10 \log(2) = 7.01 \text{dBi} > 6 \text{dBi}$, so the limit shall be reduced to $30 - (7.01 - 6) = 28.99 \text{dBm}$.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	8.66	9.54	16.340	12.13	28.99	Pass
6	2437	12.43	13.25	38.633	15.87	28.99	Pass
9	2452	11.97	12.45	33.319	15.23	28.99	Pass

Note: Directional gain = $4 + 10 \log(2) = 7.01 \text{dBi} > 6 \text{dBi}$, so the limit shall be reduced to $30 - (7.01 - 6) = 28.99 \text{dBm}$.

Test Mode B, CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.86	20.09	198.922	22.99	25	Pass
6	2437	22.10	21.60	306.725	24.87	25	Pass
11	2462	20.12	20.74	221.379	23.45	25	Pass

Note: Gain = 11dBi > 6dBi, so the limit shall be reduced to 30-(11-6) = 25dBm.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.19	14.14	52.184	17.18	25	Pass
6	2437	20.62	20.69	232.565	23.67	25	Pass
11	2462	15.11	15.76	70.104	18.46	25	Pass

Note: Gain = 11dBi > 6dBi, so the limit shall be reduced to 30-(11-6) = 25dBm.

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	12.54	12.51	35.771	15.54	25	Pass
6	2437	20.61	20.74	233.657	23.69	25	Pass
11	2462	14.77	15.18	62.953	17.99	25	Pass

Note: Gain = 11dBi > 6dBi, so the limit shall be reduced to 30-(11-6) = 25dBm.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	10.71	10.72	23.579	13.73	25	Pass
6	2437	14.87	14.92	61.736	17.91	25	Pass
9	2452	12.76	12.91	38.423	15.85	25	Pass

Note: Gain = 11dBi > 6dBi, so the limit shall be reduced to 30-(11-6) = 25dBm.

Test Mode B, Beamforming Mode

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	9.53	9.50	17.887	12.53	21.99	Pass
6	2437	17.60	17.73	116.837	20.68	21.99	Pass
11	2462	11.76	12.17	31.479	14.98	21.99	Pass

Note: Directional gain = $11 + 10 \log(2) = 14.01 \text{dBi} > 6 \text{dBi}$, so the limit shall be reduced to $30 - (14.01 - 6) = 21.99 \text{dBm}$.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	7.70	7.71	11.790	10.72	21.99	Pass
6	2437	11.86	11.91	30.870	14.90	21.99	Pass
9	2452	9.75	9.90	19.213	12.84	21.99	Pass

Note: Directional gain = $11 + 10 \log(2) = 14.01 \text{dBi} > 6 \text{dBi}$, so the limit shall be reduced to $30 - (14.01 - 6) = 21.99 \text{dBm}$.

Test Mode C, CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.33	21.01	234.078	23.69	27.9	Pass
6	2437	22.11	21.31	297.762	24.74	27.9	Pass
11	2462	20.45	20.47	222.346	23.47	27.9	Pass

Note: Gain = 8.1dBi > 6dBi, so the limit shall be reduced to $30-(8.1-6) = 27.9$ dBm.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.98	16.44	83.683	19.23	27.9	Pass
6	2437	21.99	22.23	325.234	25.12	27.9	Pass
11	2462	16.41	16.33	86.706	19.38	27.9	Pass

Note: Gain = 8.1dBi > 6dBi, so the limit shall be reduced to $30-(8.1-6) = 27.9$ dBm.

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.51	15.01	59.945	17.78	27.9	Pass
6	2437	21.75	22.22	316.349	25.00	27.9	Pass
11	2462	15.85	15.92	77.543	18.90	27.9	Pass

Note: Gain = 8.1dBi > 6dBi, so the limit shall be reduced to $30-(8.1-6) = 27.9$ dBm.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	12.12	12.69	34.871	15.42	27.9	Pass
6	2437	16.78	17.17	99.762	19.99	27.9	Pass
9	2452	15.62	15.90	75.380	18.77	27.9	Pass

Note: Gain = 8.1dBi > 6dBi, so the limit shall be reduced to $30-(8.1-6) = 27.9$ dBm.

Test Mode C, Beamforming Mode

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	11.50	12.00	29.974	14.77	24.89	Pass
6	2437	18.74	19.21	158.185	21.99	24.89	Pass
11	2462	12.84	12.91	38.774	15.89	24.89	Pass

Note: Directional gain = $8.1 + 10 \log(2) = 11.11 \text{ dBi} > 6 \text{ dBi}$, so the limit shall be reduced to $30 - (11.11 - 6) = 24.89 \text{ dBm}$.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	9.11	9.68	17.437	12.41	24.89	Pass
6	2437	13.77	14.16	49.885	16.98	24.89	Pass
9	2452	12.61	12.89	37.693	15.76	24.89	Pass

Note: Directional gain = $8.1 + 10 \log(2) = 11.11 \text{ dBi} > 6 \text{ dBi}$, so the limit shall be reduced to $30 - (11.11 - 6) = 24.89 \text{ dBm}$.

Test Mode D, CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.59	20.40	224.199	23.51	26.2	Pass
6	2437	21.78	21.57	294.210	24.69	26.2	Pass
11	2462	20.25	20.50	218.127	23.39	26.2	Pass

Note: Gain = 9.8dBi > 6dBi, so the limit shall be reduced to $30-(9.8-6) = 26.2$ dBm.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	15.29	15.14	66.465	18.23	26.2	Pass
6	2437	21.17	21.07	258.856	24.13	26.2	Pass
11	2462	15.17	15.57	68.943	18.38	26.2	Pass

Note: Gain = 9.8dBi > 6dBi, so the limit shall be reduced to $30-(9.8-6) = 26.2$ dBm.

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	13.65	13.54	45.768	16.61	26.2	Pass
6	2437	21.25	21.07	261.290	24.17	26.2	Pass
11	2462	15.28	15.66	70.542	18.48	26.2	Pass

Note: Gain = 9.8dBi > 6dBi, so the limit shall be reduced to $30-(9.8-6) = 26.2$ dBm.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	11.41	11.27	27.233	14.35	26.2	Pass
6	2437	15.49	15.39	69.994	18.45	26.2	Pass
9	2452	13.74	13.88	48.093	16.82	26.2	Pass

Note: Gain = 9.8dBi > 6dBi, so the limit shall be reduced to $30-(9.8-6) = 26.2$ dBm.

Test Mode D, Beamforming Mode

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	10.64	10.53	22.886	13.60	23.19	Pass
6	2437	18.24	18.06	130.654	21.16	23.19	Pass
11	2462	12.27	12.65	35.274	15.47	23.19	Pass

Note: Directional gain = $9.8 + 10 \log(2) = 12.81 \text{dBi} > 6 \text{dBi}$, so the limit shall be reduced to $30 - (12.81 - 6) = 23.19 \text{dBm}$.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	8.40	8.26	13.617	11.34	23.19	Pass
6	2437	12.48	12.38	34.999	15.44	23.19	Pass
9	2452	10.73	10.87	24.048	13.81	23.19	Pass

Note: Directional gain = $9.8 + 10 \log(2) = 12.81 \text{dBi} > 6 \text{dBi}$, so the limit shall be reduced to $30 - (12.81 - 6) = 23.19 \text{dBm}$.

Test Mode E, CDD Mode

802.11b

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	19.47	19.45	176.617	22.47	23	Pass
6	2437	19.49	19.58	179.702	22.55	23	Pass
11	2462	19.14	19.72	175.791	22.45	23	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 30-(13-6) = 23dBm.

802.11g

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.19	14.14	52.184	17.18	23	Pass
6	2437	19.76	19.86	191.452	22.82	23	Pass
11	2462	14.69	15.16	62.254	17.94	23	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 30-(13-6) = 23dBm.

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	13.21	13.15	41.595	16.19	23	Pass
6	2437	19.55	19.81	185.876	22.69	23	Pass
11	2462	13.69	14.29	50.241	17.01	23	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 30-(13-6) = 23dBm.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	10.71	10.72	23.579	13.73	23	Pass
6	2437	14.87	14.92	61.736	17.91	23	Pass
9	2452	13.19	13.44	42.925	16.33	23	Pass

Note: Gain = 13dBi > 6dBi, so the limit shall be reduced to 30-(13-6) = 23dBm.

Test Mode E, Beamforming Mode

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	10.20	10.14	20.799	13.18	19.99	Pass
6	2437	16.54	16.80	92.945	19.68	19.99	Pass
11	2462	10.68	11.28	25.123	14.00	19.99	Pass

Note: Directional gain = $13 + 10 \log(2) = 16.01 \text{ dBi} > 6 \text{ dBi}$, so the limit shall be reduced to $30 - (16.01 - 6) = 19.99 \text{ dBm}$.

802.11n (HT40)

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	7.70	7.71	11.790	10.72	19.99	Pass
6	2437	11.86	11.91	30.870	14.90	19.99	Pass
9	2452	10.18	10.43	21.464	13.32	19.99	Pass

Note: Directional gain = $13 + 10 \log(2) = 16.01 \text{ dBi} > 6 \text{ dBi}$, so the limit shall be reduced to $30 - (16.01 - 6) = 19.99 \text{ dBm}$.

Test Mode F

Peak Power

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	168.267	22.26	30	Pass
6	2437	221.309	23.45	30	Pass
11	2462	191.426	22.82	30	Pass

Note: Gain = 3.9dBi < 6dBi, so the limit no need to be reduced.

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	110.917	20.45	30	Pass
6	2437	240.991	23.82	30	Pass
11	2462	91.833	19.63	30	Pass

Note: Gain = 3.9dBi < 6dBi, so the limit no need to be reduced.

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	99.541	19.98	30	Pass
6	2437	238.781	23.78	30	Pass
11	2462	67.453	18.29	30	Pass

Note: Gain = 3.9dBi < 6dBi, so the limit no need to be reduced.

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	36.813	15.66	30	Pass
6	2437	75.858	18.80	30	Pass
9	2452	25.177	14.01	30	Pass

Note: Gain = 3.9dBi < 6dBi, so the limit no need to be reduced.

Average Power

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	95.940	19.82
6	2437	130.918	21.17
11	2462	107.647	20.32

802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	45.920	16.62
6	2437	126.183	21.01
11	2462	38.107	15.81

802.11n (HT20)

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
1	2412	39.628	15.98
6	2437	120.504	20.81
11	2462	26.002	14.15

802.11n (HT40)

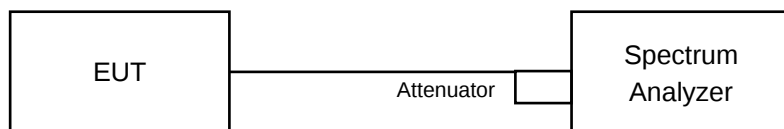
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)
3	2422	13.709	11.37
6	2437	29.785	14.74
9	2452	9.616	9.83

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

Test Mode A, B, C, D, E

For Average Power (Duty cycle $\geq 98\%$)

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.

For Average Power (Duty cycle $< 98\%$)

- Measure the duty cycle (x).
- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Do not use sweep triggering. Allow sweep to "free run".
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- Add $10 \log(1/x)$, where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

Test Mode F

For Peak power

- a. Set analyzer center frequency to DTS channel center frequency.
- b. Set the span to 1.5 times the DTS bandwidth.
- c. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW $\geq 3 \times \text{RBW}$.
- e. Detector = peak.
- f. Sweep time = auto couple.
- g. Trace mode = max hold.
- h. Allow trace to fully stabilize.
- i. Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as item 4.3.6

4.5.7 Test Results

Test Mode A

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-6.69	3.01	-3.68	6.99	Pass
	6	2437	-4.70	3.01	-1.69	6.99	Pass
	11	2462	-6.81	3.01	-3.80	6.99	Pass
1	1	2412	-5.98	3.01	-2.97	6.99	Pass
	6	2437	-5.47	3.01	-2.46	6.99	Pass
	11	2462	-5.64	3.01	-2.63	6.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the limit shall be reduced to 8-(7.01-6) = 6.99dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-14.30	3.01	0.19	-11.10	6.99	Pass
	6	2437	-8.36	3.01	0.19	-5.16	6.99	Pass
	11	2462	-14.45	3.01	0.19	-11.25	6.99	Pass
1	1	2412	-14.12	3.01	0.19	-10.92	6.99	Pass
	6	2437	-7.76	3.01	0.19	-4.56	6.99	Pass
	11	2462	-13.81	3.01	0.19	-10.61	6.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi, so the limit shall be reduced to 8-(7.01-6) = 6.99dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-14.41	3.01	-11.40	6.99	Pass
	6	2437	-8.01	3.01	-5.00	6.99	Pass
	11	2462	-13.89	3.01	-10.88	6.99	Pass
1	1	2412	-14.09	3.01	-11.08	6.99	Pass
	6	2437	-7.75	3.01	-4.74	6.99	Pass
	11	2462	-12.96	3.01	-9.95	6.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(7.01-6) = 6.99\text{dBm}$.

802.11n (HT40)

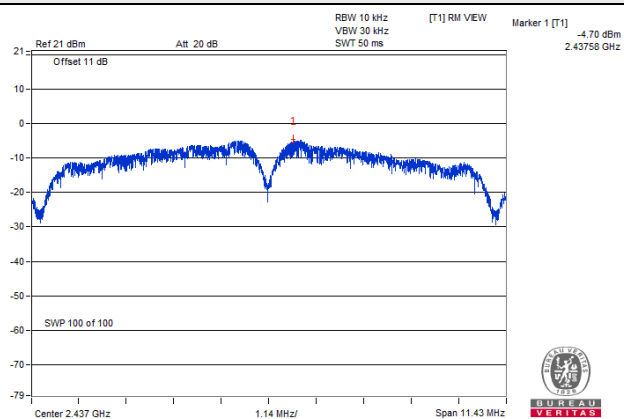
TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-20.35	3.01	0.17	-17.17	6.99	Pass
	6	2437	-16.60	3.01	0.17	-13.42	6.99	Pass
	9	2452	-23.80	3.01	0.17	-20.62	6.99	Pass
1	3	2422	-20.28	3.01	0.17	-17.10	6.99	Pass
	6	2437	-16.77	3.01	0.17	-13.59	6.99	Pass
	9	2452	-17.16	3.01	0.17	-13.98	6.99	Pass

Note:

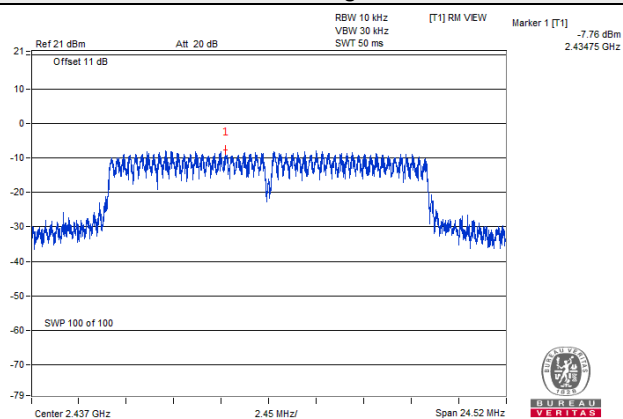
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $4\text{dBi} + 10\log(2) = 7.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(7.01-6) = 6.99\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

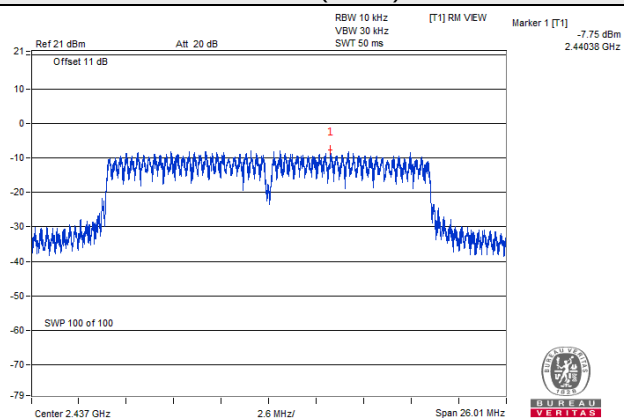
802.11b



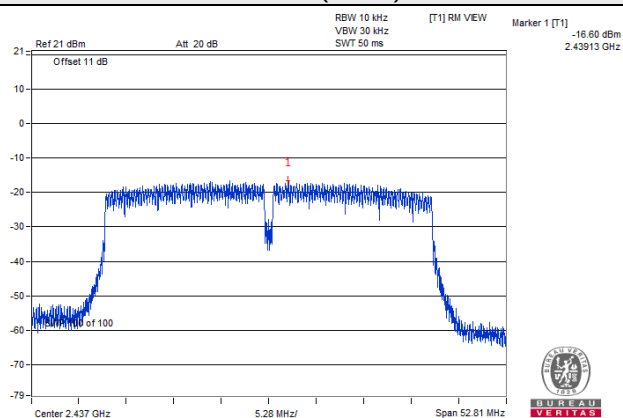
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode B

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-7.01	3.01	-4.00	-0.01	Pass
	6	2437	-5.11	3.01	-2.10	-0.01	Pass
	11	2462	-6.33	3.01	-3.32	-0.01	Pass
1	1	2412	-6.42	3.01	-3.41	-0.01	Pass
	6	2437	-5.30	3.01	-2.29	-0.01	Pass
	11	2462	-6.00	3.01	-2.99	-0.01	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 11dBi + 10log(2) = 14.01dBi > 6dBi, so the limit shall be reduced to 8-(14.01-6) = -0.01dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-16.08	3.01	0.19	-12.88	-0.01	Pass
	6	2437	-8.96	3.01	0.19	-5.76	-0.01	Pass
	11	2462	-14.95	3.01	0.19	-11.75	-0.01	Pass
1	1	2412	-15.51	3.01	0.19	-12.31	-0.01	Pass
	6	2437	-8.95	3.01	0.19	-5.75	-0.01	Pass
	11	2462	-14.00	3.01	0.19	-10.80	-0.01	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 11dBi + 10log(2) = 14.01dBi > 6dBi, so the limit shall be reduced to 8-(14.01-6) = -0.01dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-16.90	3.01	-13.89	-0.01	Pass
	6	2437	-8.61	3.01	-5.60	-0.01	Pass
	11	2462	-14.90	3.01	-11.89	-0.01	Pass
1	1	2412	-16.73	3.01	-13.72	-0.01	Pass
	6	2437	-8.83	3.01	-5.82	-0.01	Pass
	11	2462	-14.04	3.01	-11.03	-0.01	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 11dBi + 10log(2) = 14.01dBi > 6dBi, so the limit shall be reduced to 8-(14.01-6) = -0.01dBm.

802.11n (HT40)

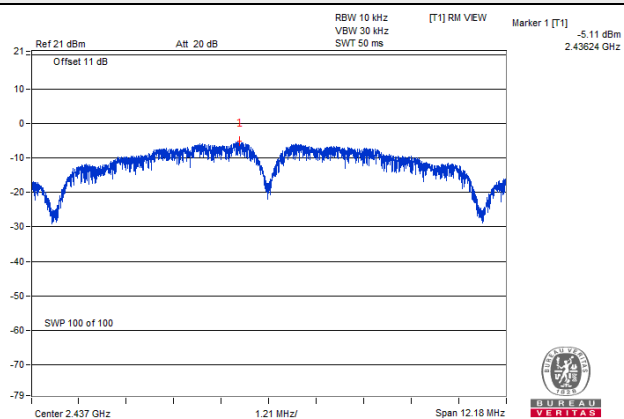
TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-21.98	3.01	0.17	-18.80	-0.01	Pass
	6	2437	-17.90	3.01	0.17	-14.72	-0.01	Pass
	9	2452	-20.09	3.01	0.17	-16.91	-0.01	Pass
1	3	2422	-21.76	3.01	0.17	-18.58	-0.01	Pass
	6	2437	-17.70	3.01	0.17	-14.52	-0.01	Pass
	9	2452	-20.10	3.01	0.17	-16.92	-0.01	Pass

Note:

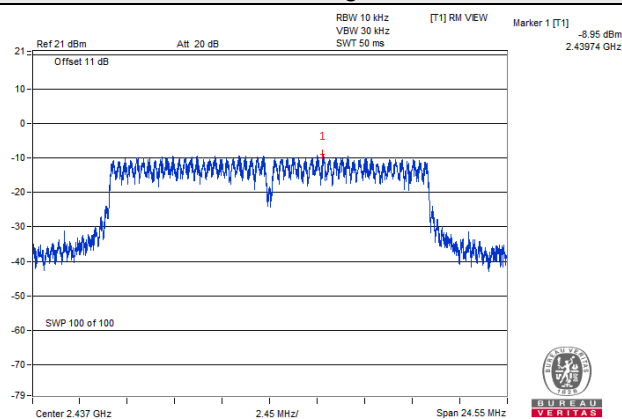
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 11dBi + 10log(2) = 14.01dBi > 6dBi, so the limit shall be reduced to 8-(14.01-6) = -0.01dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

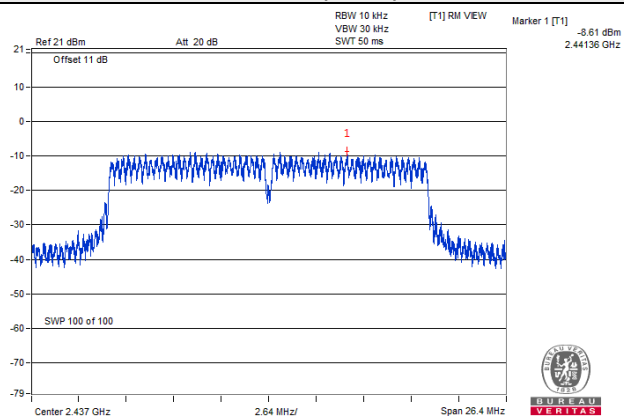
802.11b



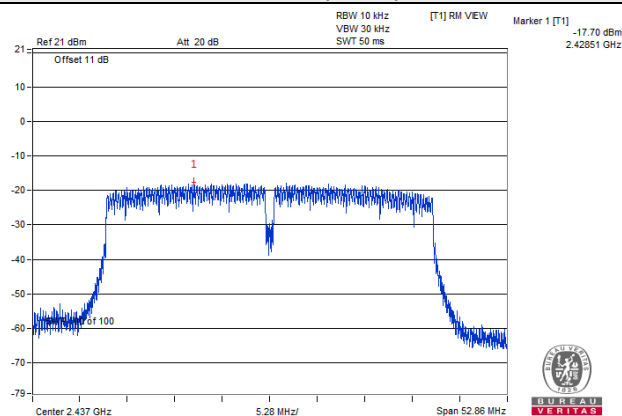
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode C

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-6.02	3.01	-3.01	2.89	Pass
	6	2437	-5.41	3.01	-2.40	2.89	Pass
	11	2462	-6.30	3.01	-3.29	2.89	Pass
1	1	2412	-6.24	3.01	-3.23	2.89	Pass
	6	2437	-4.82	3.01	-1.81	2.89	Pass
	11	2462	-6.07	3.01	-3.06	2.89	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $8.1\text{dBi} + 10\log(2) = 11.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8 - (11.11 - 6) = 2.89\text{dBm}$.

802.11g

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-13.91	3.01	0.19	-10.71	2.89	Pass
	6	2437	-8.30	3.01	0.19	-5.10	2.89	Pass
	11	2462	-13.99	3.01	0.19	-10.79	2.89	Pass
1	1	2412	-13.98	3.01	0.19	-10.78	2.89	Pass
	6	2437	-7.95	3.01	0.19	-4.75	2.89	Pass
	11	2462	-13.26	3.01	0.19	-10.06	2.89	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $8.1\text{dBi} + 10\log(2) = 11.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8 - (11.11 - 6) = 2.89\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-14.99	3.01	-11.98	2.89	Pass
	6	2437	-7.77	3.01	-4.76	2.89	Pass
	11	2462	-14.12	3.01	-11.11	2.89	Pass
1	1	2412	-14.41	3.01	-11.40	2.89	Pass
	6	2437	-7.62	3.01	-4.61	2.89	Pass
	11	2462	-13.20	3.01	-10.19	2.89	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $8.1\text{dBi} + 10\log(2) = 11.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(11.11-6) = 2.89\text{dBm}$.

802.11n (HT40)

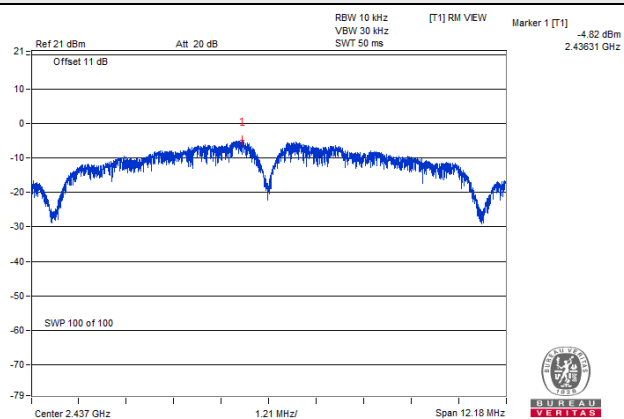
TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-20.53	3.01	0.17	-17.35	2.89	Pass
	6	2437	-15.67	3.01	0.17	-12.49	2.89	Pass
	9	2452	-17.26	3.01	0.17	-14.08	2.89	Pass
1	3	2422	-19.82	3.01	0.17	-16.64	2.89	Pass
	6	2437	-15.76	3.01	0.17	-12.58	2.89	Pass
	9	2452	-16.51	3.01	0.17	-13.33	2.89	Pass

Note:

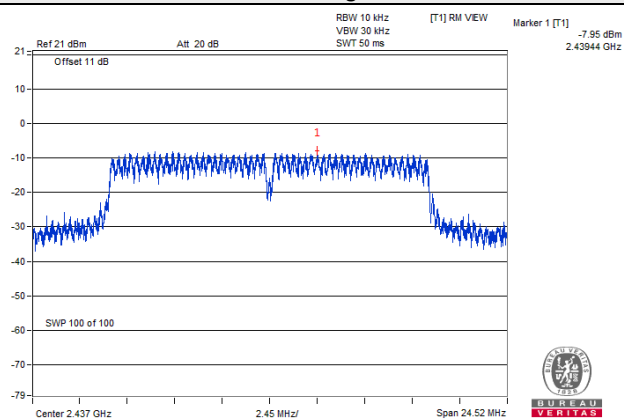
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $8.1\text{dBi} + 10\log(2) = 11.11\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(11.11-6) = 2.89\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

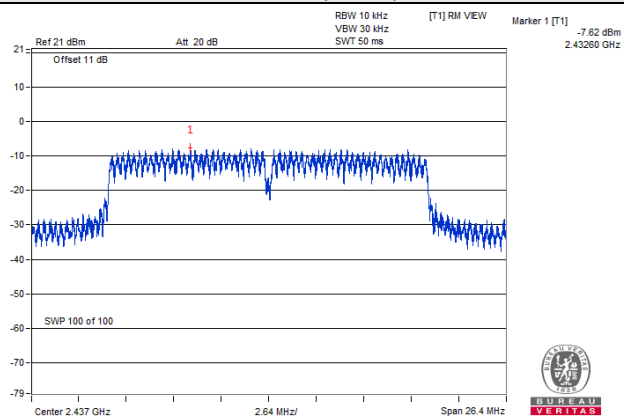
802.11b



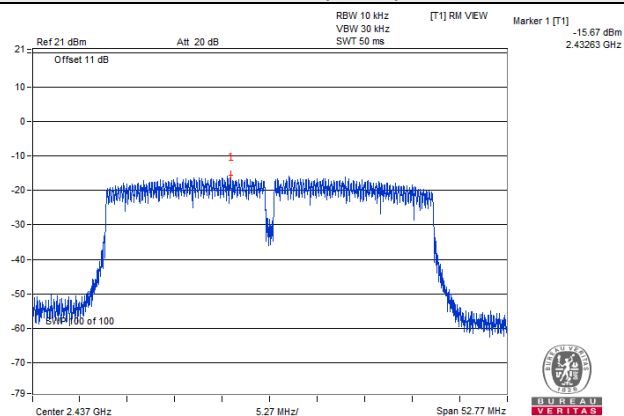
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode D

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-5.92	3.01	-2.91	1.19	Pass
	6	2437	-4.92	3.01	-1.91	1.19	Pass
	11	2462	-6.42	3.01	-3.41	1.19	Pass
1	1	2412	-6.69	3.01	-3.68	1.19	Pass
	6	2437	-5.09	3.01	-2.08	1.19	Pass
	11	2462	-6.30	3.01	-3.29	1.19	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi, so the limit shall be reduced to 8-(12.81-6) = 1.19dBm.

802.11g

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-14.98	3.01	0.19	-11.78	1.19	Pass
	6	2437	-8.96	3.01	0.19	-5.76	1.19	Pass
	11	2462	-14.72	3.01	0.19	-11.52	1.19	Pass
1	1	2412	-15.25	3.01	0.19	-12.05	1.19	Pass
	6	2437	-8.81	3.01	0.19	-5.61	1.19	Pass
	11	2462	-14.48	3.01	0.19	-11.28	1.19	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = 9.8dBi + 10log(2) = 12.81dBi > 6dBi, so the limit shall be reduced to 8-(12.81-6) = 1.19dBm.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-16.34	3.01	-13.33	1.19	Pass
	6	2437	-8.30	3.01	-5.29	1.19	Pass
	11	2462	-14.90	3.01	-11.89	1.19	Pass
1	1	2412	-16.00	3.01	-12.99	1.19	Pass
	6	2437	-8.70	3.01	-5.69	1.19	Pass
	11	2462	-13.75	3.01	-10.74	1.19	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $9.8\text{dBi} + 10\log(2) = 12.81\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8 - (12.81 - 6) = 1.19\text{dBm}$.

802.11n (HT40)

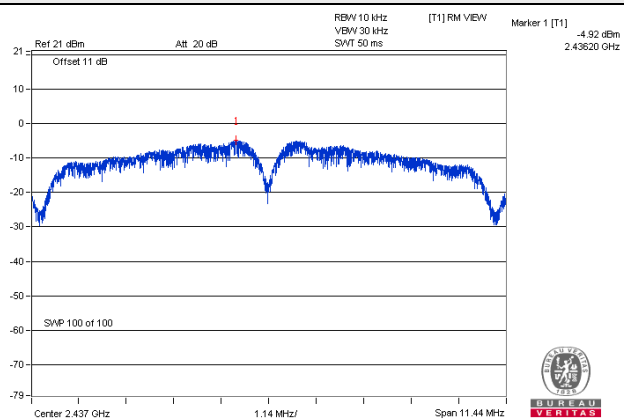
TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-21.32	3.01	0.17	-18.14	1.19	Pass
	6	2437	-17.28	3.01	0.17	-14.10	1.19	Pass
	9	2452	-19.11	3.01	0.17	-15.93	1.19	Pass
1	3	2422	-21.50	3.01	0.17	-18.32	1.19	Pass
	6	2437	-17.71	3.01	0.17	-14.53	1.19	Pass
	9	2452	-18.93	3.01	0.17	-15.75	1.19	Pass

Note:

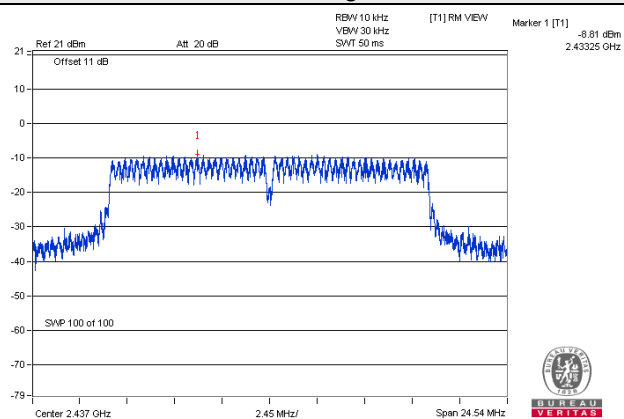
- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $9.8\text{dBi} + 10\log(2) = 12.81\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8 - (12.81 - 6) = 1.19\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

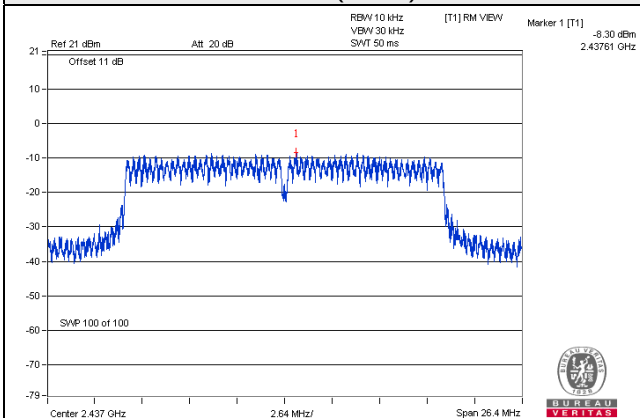
802.11b



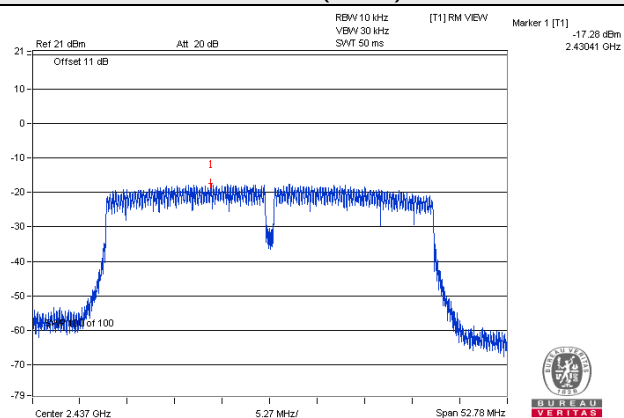
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode E

802.11b

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-7.10	3.01	-4.09	-2.01	Pass
	6	2437	-7.22	3.01	-4.21	-2.01	Pass
	11	2462	-7.36	3.01	-4.35	-2.01	Pass
1	1	2412	-7.20	3.01	-4.19	-2.01	Pass
	6	2437	-6.93	3.01	-3.92	-2.01	Pass
	11	2462	-7.40	3.01	-4.39	-2.01	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(16.01-6) = -2.01\text{dBm}$.

802.11g

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-15.62	3.01	0.19	-12.42	-2.01	Pass
	6	2437	-10.66	3.01	0.19	-7.46	-2.01	Pass
	11	2462	-15.70	3.01	0.19	-12.50	-2.01	Pass
1	1	2412	-16.05	3.01	0.19	-12.85	-2.01	Pass
	6	2437	-10.21	3.01	0.19	-7.01	-2.01	Pass
	11	2462	-15.14	3.01	0.19	-11.94	-2.01	Pass

Note:

- Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(16.01-6) = -2.01\text{dBm}$.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD (dBm/10kHz)	10 log (N=2) dB	TOTAL PSD (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-16.49	3.01	-13.48	-2.01	Pass
	6	2437	-9.82	3.01	-6.81	-2.01	Pass
	11	2462	-15.72	3.01	-12.71	-2.01	Pass
1	1	2412	-16.68	3.01	-13.67	-2.01	Pass
	6	2437	-10.03	3.01	-7.02	-2.01	Pass
	11	2462	-14.96	3.01	-11.95	-2.01	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(16.01-6) = -2.01\text{dBm}$.

802.11n (HT40)

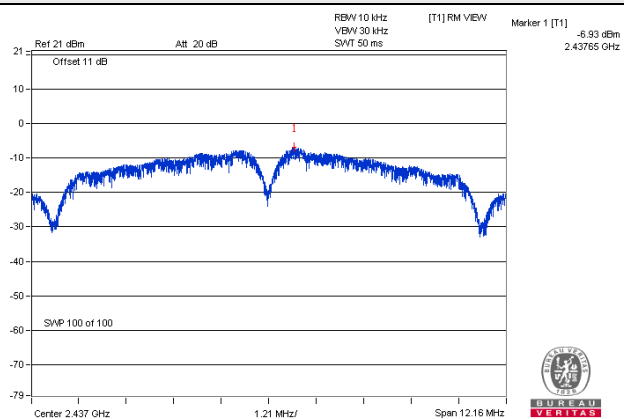
TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/10kHz)	10 log (N=2) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/10kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-22.26	3.01	0.17	-19.08	-2.01	Pass
	6	2437	-18.00	3.01	0.17	-14.82	-2.01	Pass
	9	2452	-19.01	3.01	0.17	-15.83	-2.01	Pass
1	3	2422	-21.81	3.01	0.17	-18.63	-2.01	Pass
	6	2437	-17.88	3.01	0.17	-14.70	-2.01	Pass
	9	2452	-19.44	3.01	0.17	-16.26	-2.01	Pass

Note:

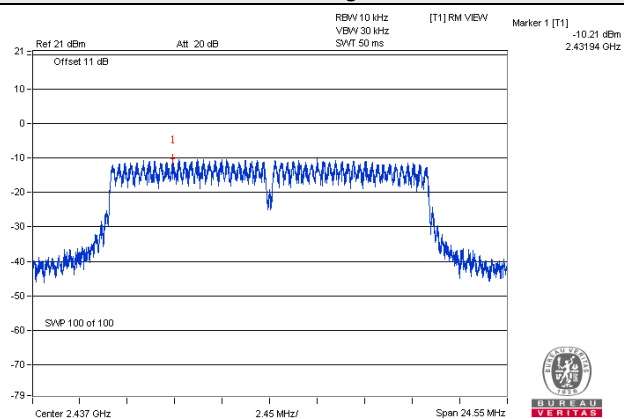
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $13\text{dBi} + 10\log(2) = 16.01\text{dBi} > 6\text{dBi}$, so the limit shall be reduced to $8-(16.01-6) = -2.01\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

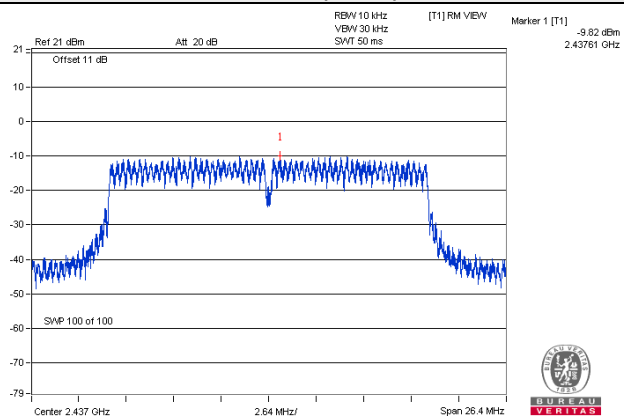
802.11b



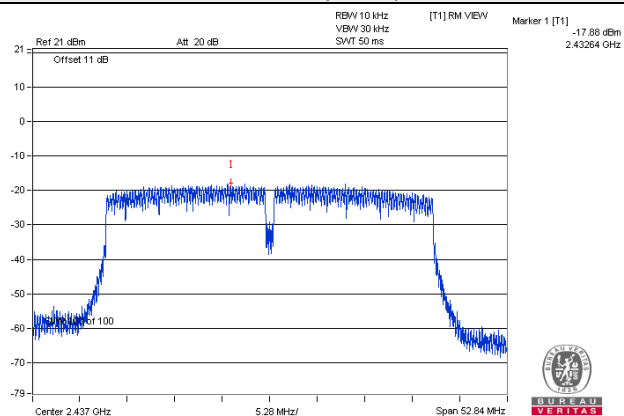
802.11g



802.11n (HT20)



802.11n (HT40)



Test Mode F

802.11b

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	4.69	8	Pass
6	2437	2.42	8	Pass
11	2462	5.05	8	Pass

802.11g

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-9.57	8	Pass
6	2437	-5.08	8	Pass
11	2462	-10.00	8	Pass

802.11n (HT20)

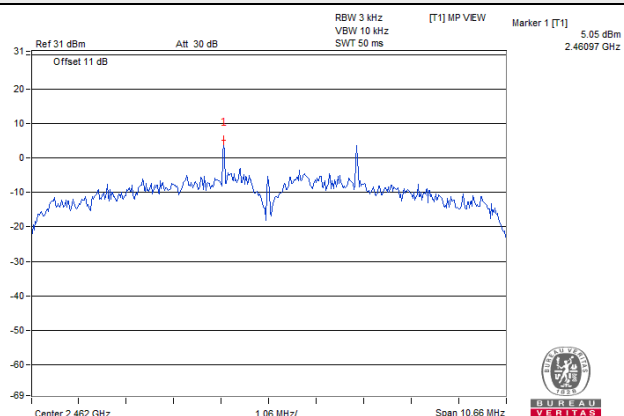
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-10.91	8	Pass
6	2437	-6.04	8	Pass
11	2462	-12.57	8	Pass

802.11n (HT40)

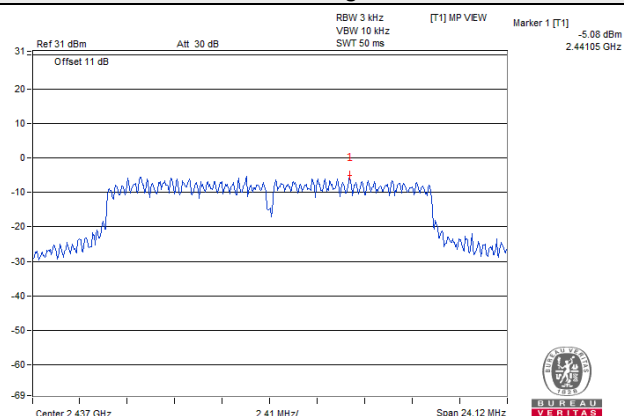
Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
3	2422	-18.72	8	Pass
6	2437	-14.62	8	Pass
9	2452	-20.33	8	Pass

Spectrum Plot of Worst Value

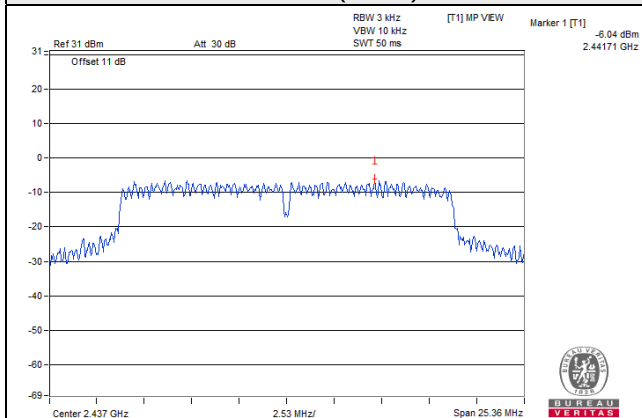
802.11b



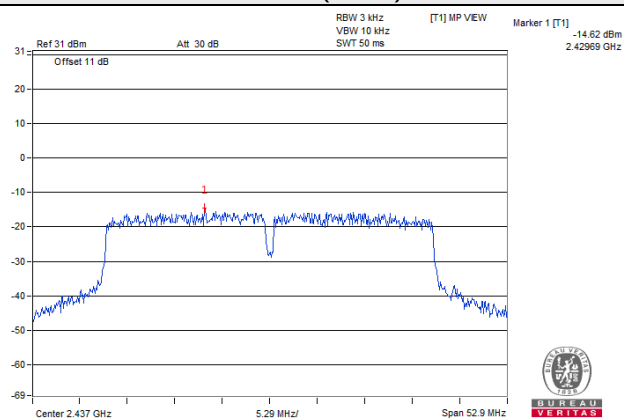
802.11g



802.11n (HT20)



802.11n (HT40)



4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 30dB (average power for test mode A, B, C, D, E) / 20dB (peak power for test mode F) of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

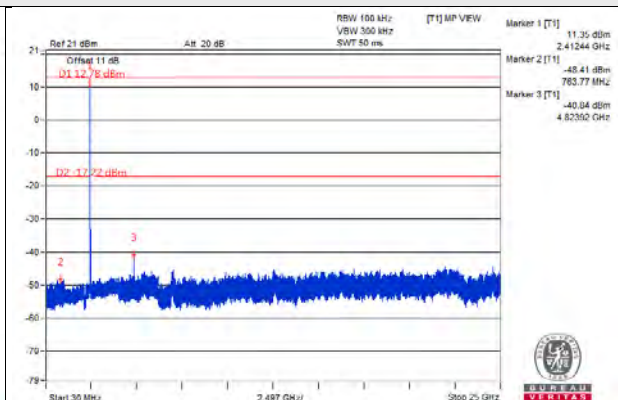
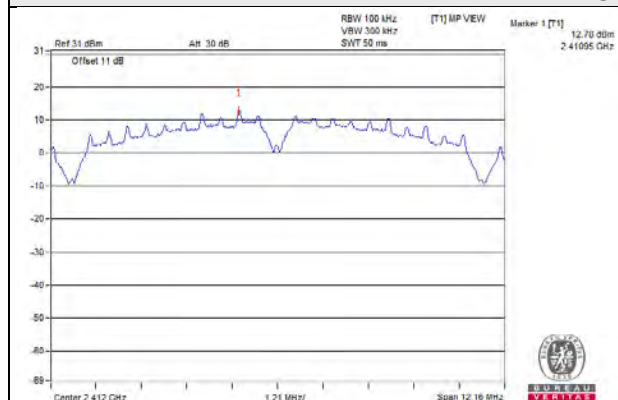
Same as item 4.3.6

4.6.7 Test Results

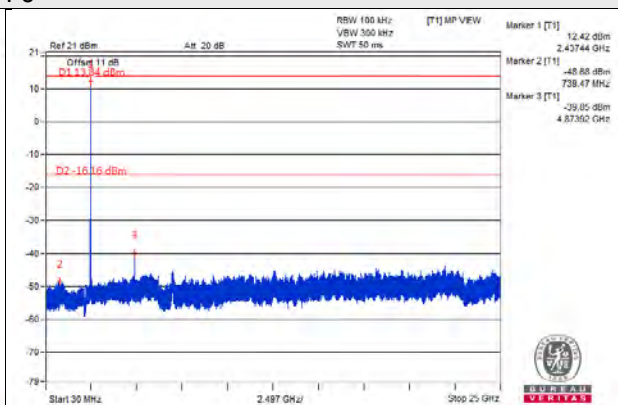
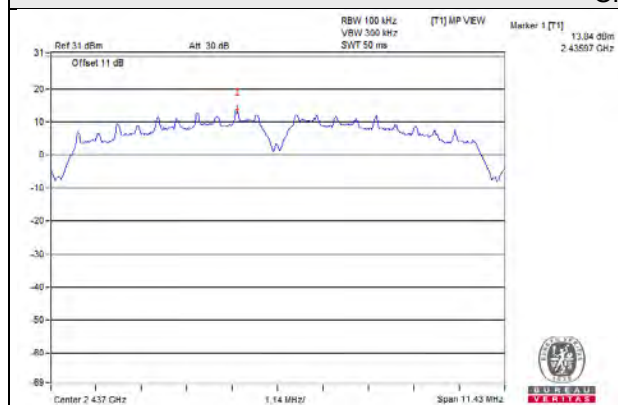
The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB (average power for test mode A, B, C, D, E) / 20dB (peak power for test mode F) offset below D1. It shows compliance with the requirement.

Test Mode A
802.11b_Chain 0

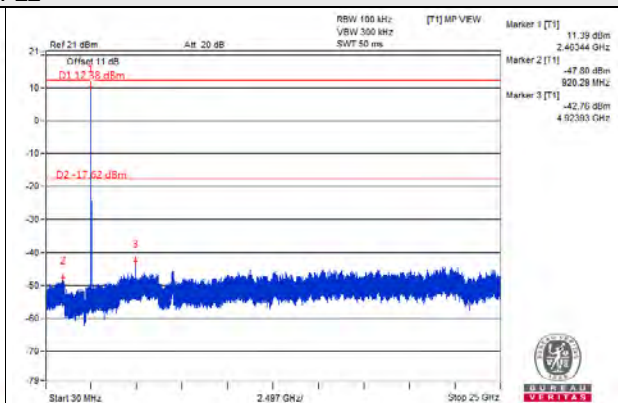
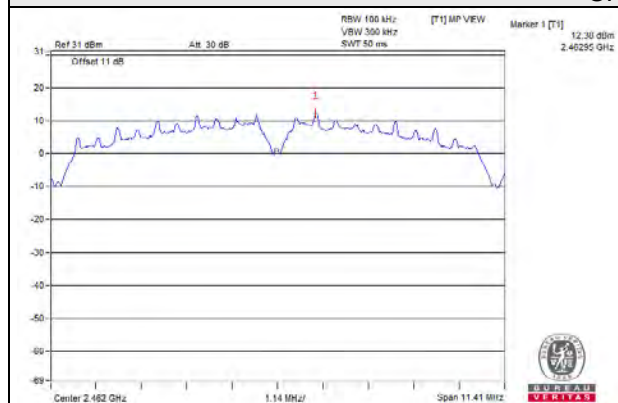
CH 1



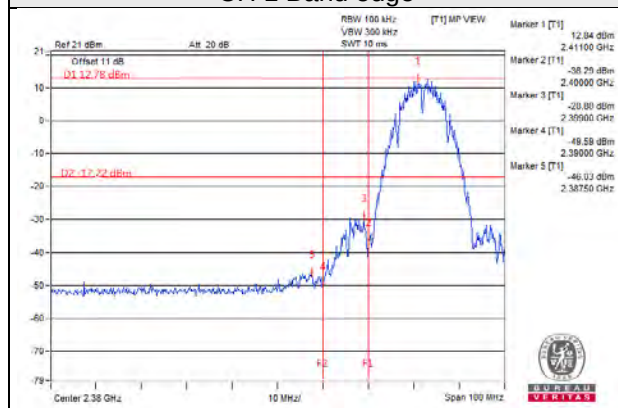
CH 6



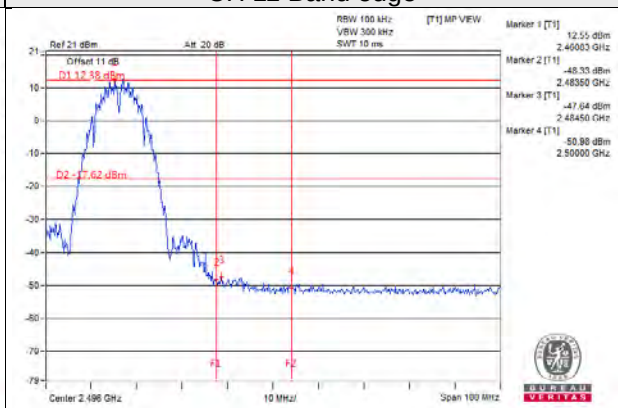
CH 11



CH 1 Band edge

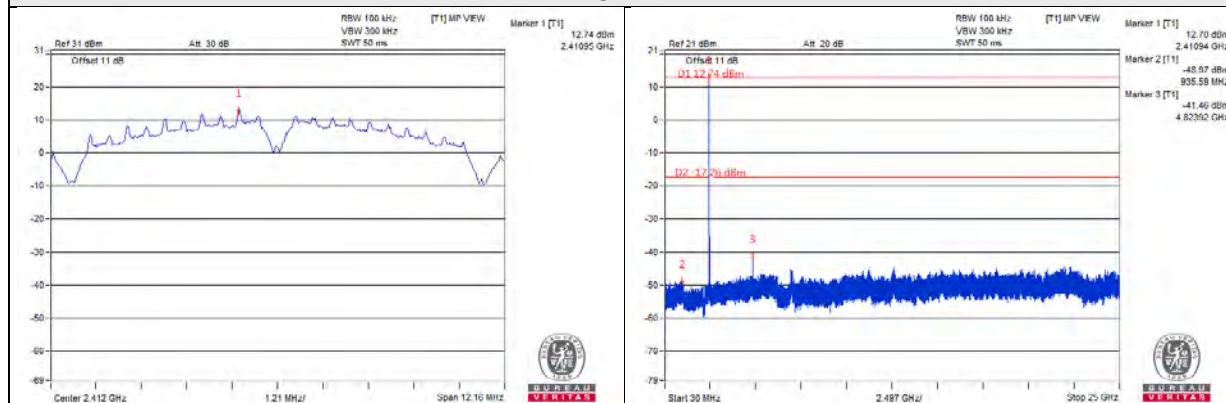


CH 11 Band edge

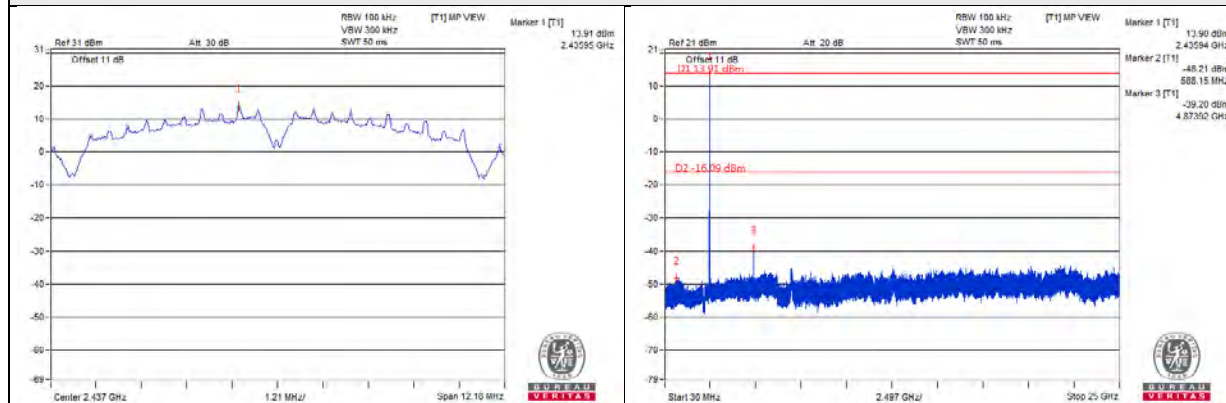


802.11b_Chain 1

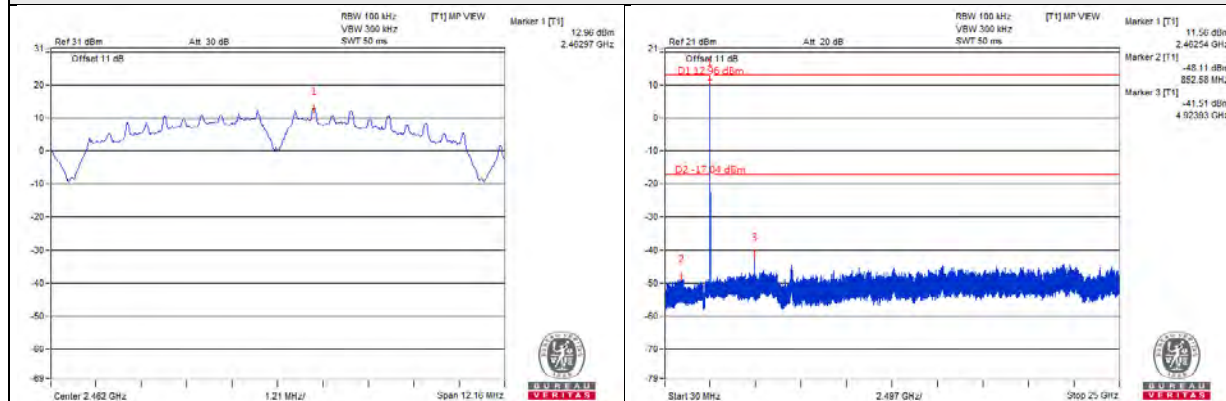
CH 1



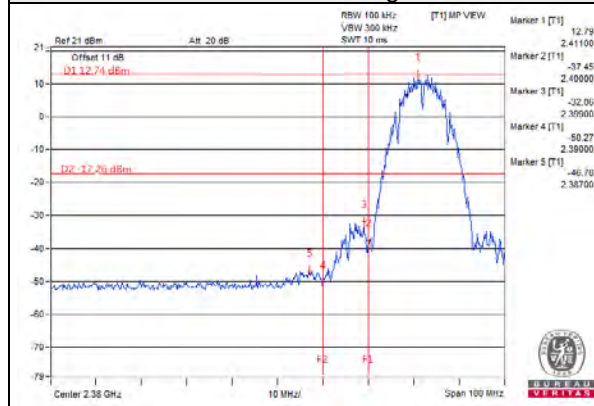
CH 6



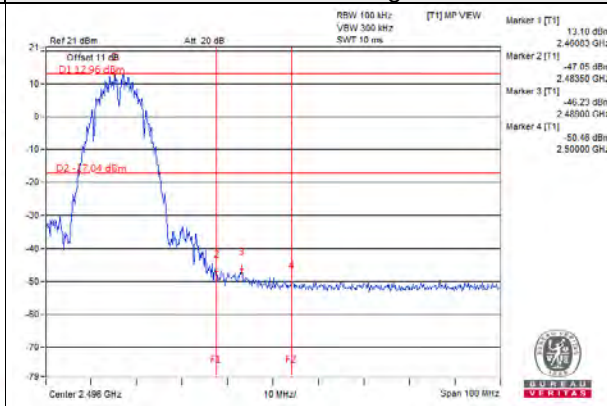
CH 11



CH 1 Band edge

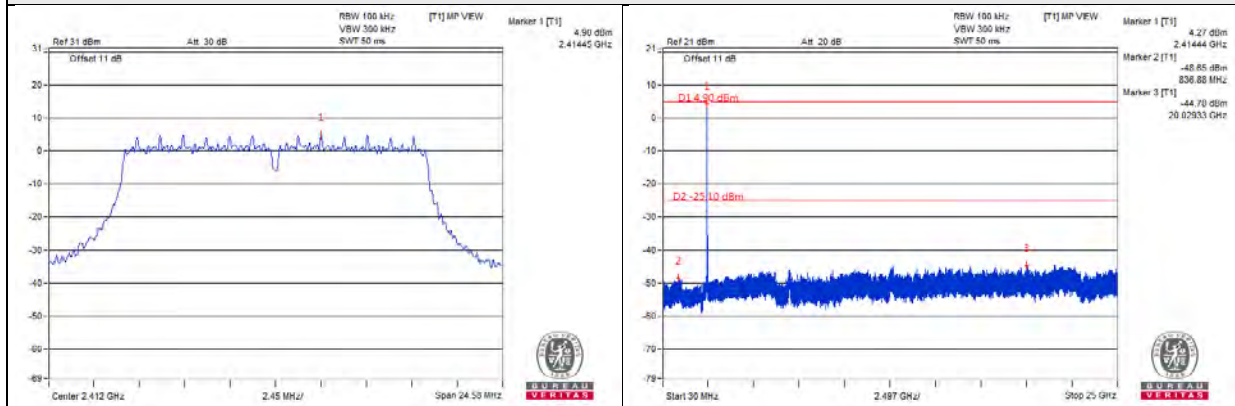


CH 11 Band edge

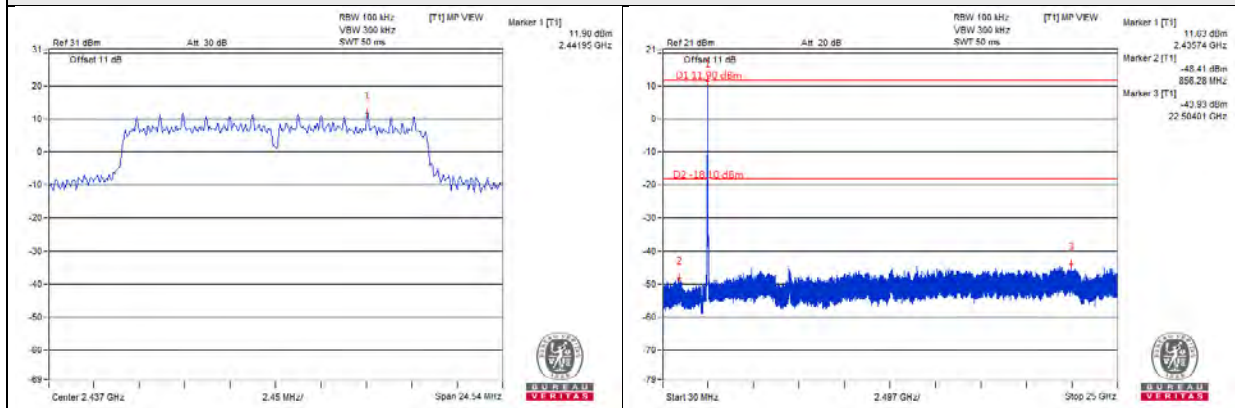


802.11g_Chain 0

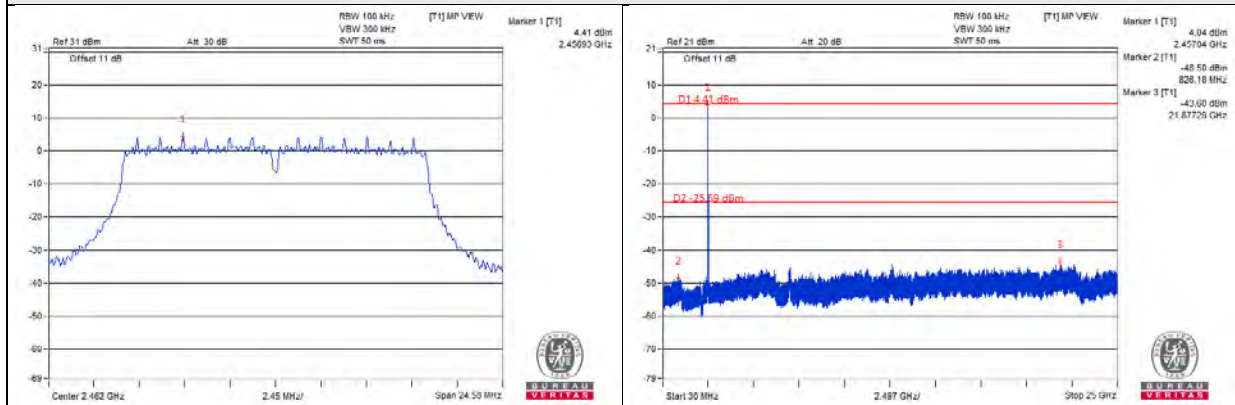
CH 1



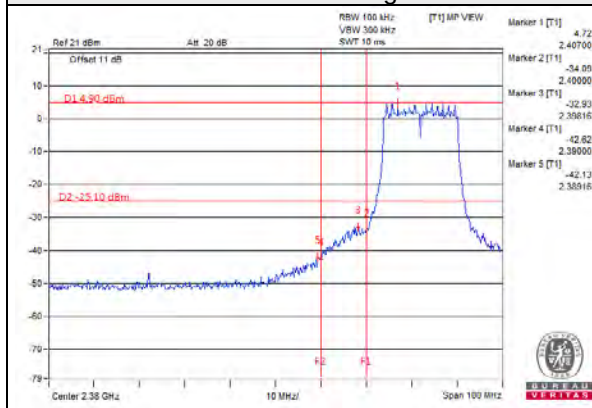
CH 6



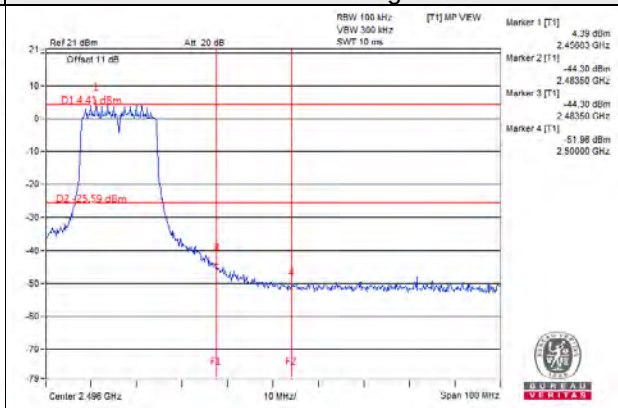
CH 11



CH 1 Band edge

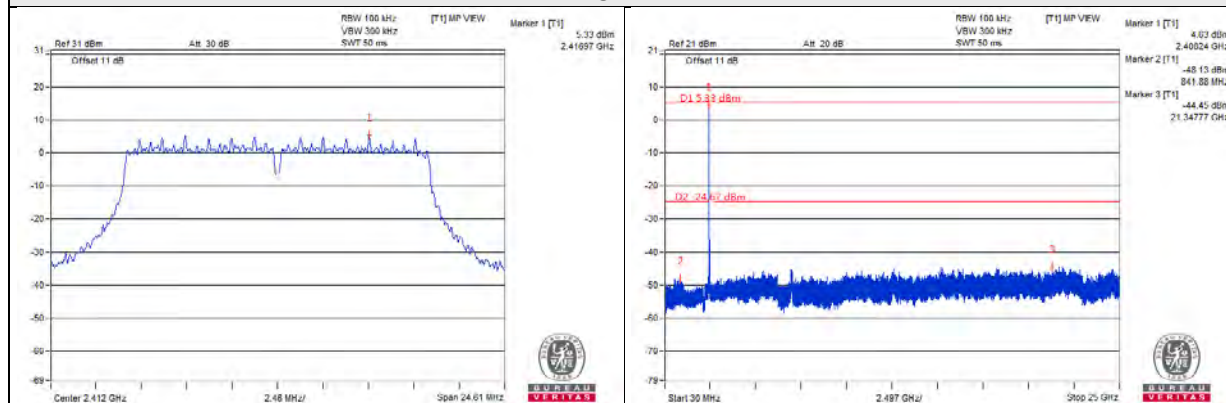


CH 11 Band edge

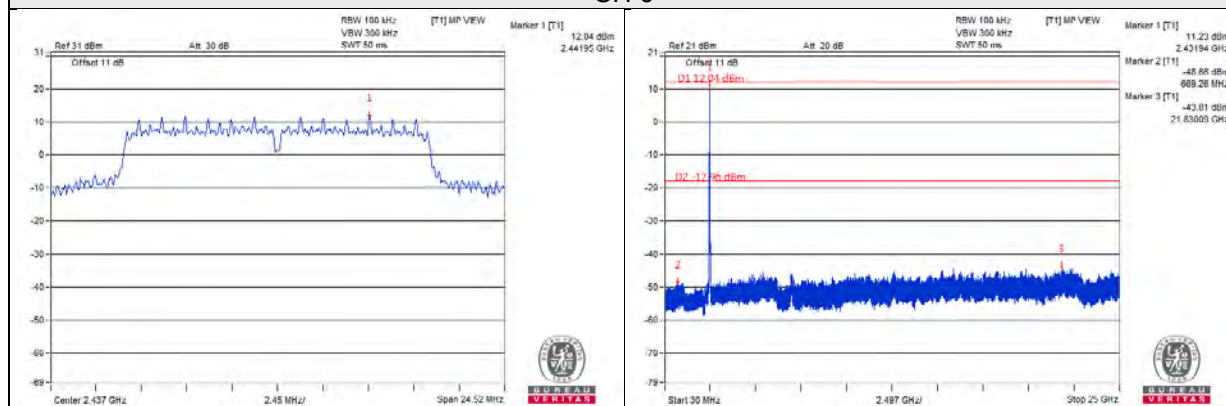


802.11g_Chain 1

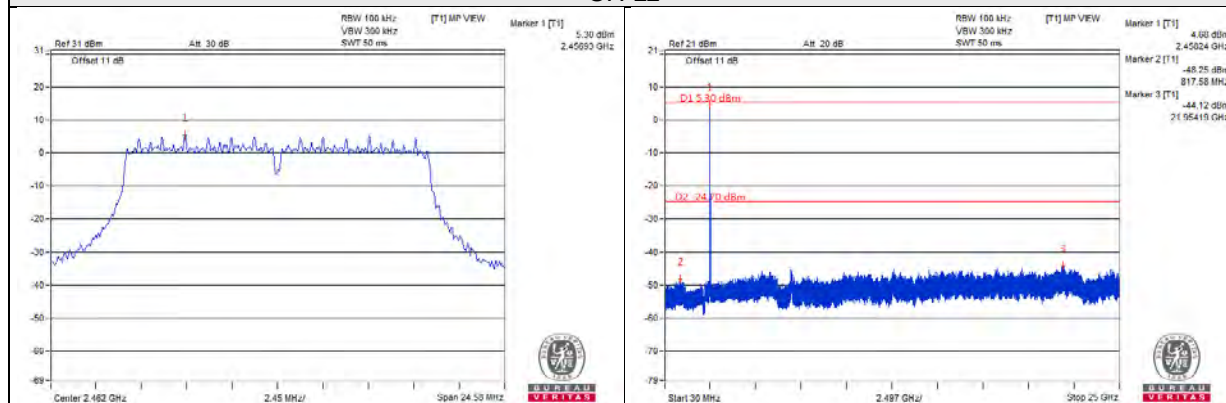
CH 1



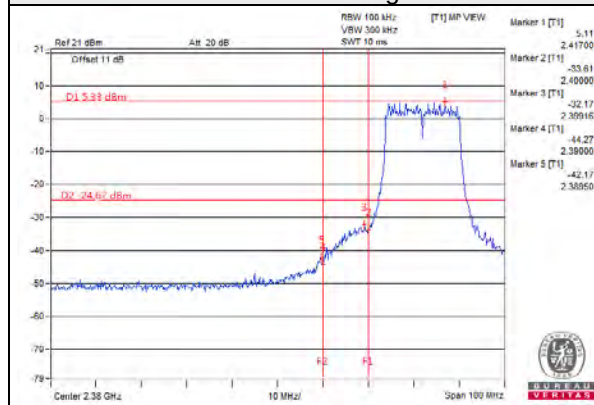
CH 6



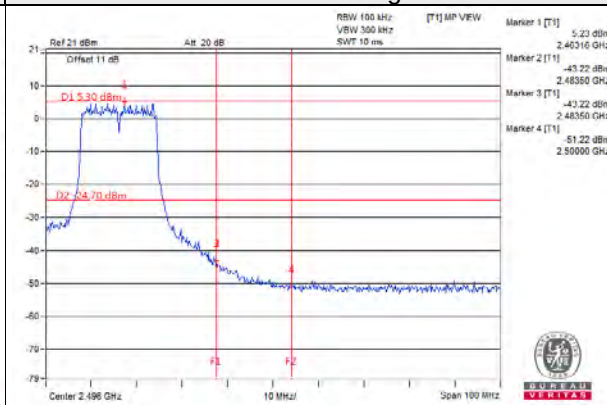
CH 11



CH 1 Band edge

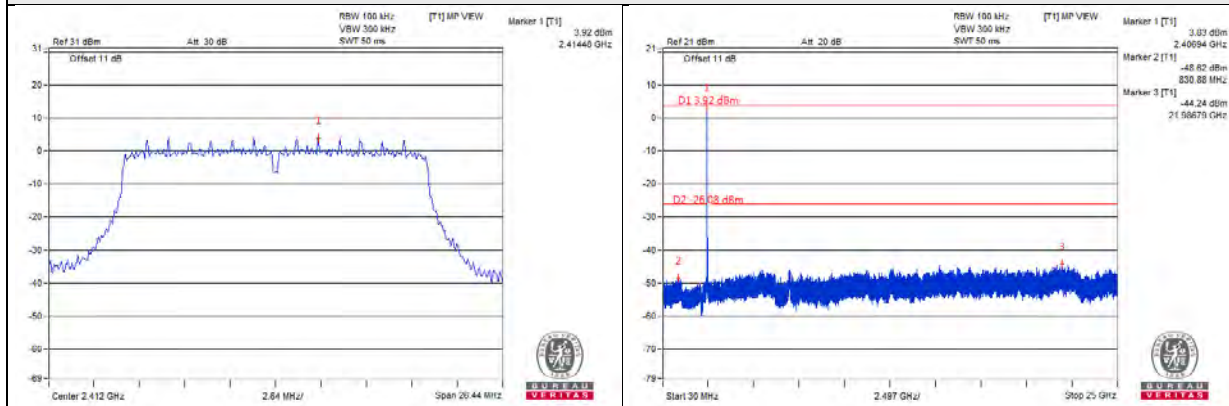


CH 11 Band edge

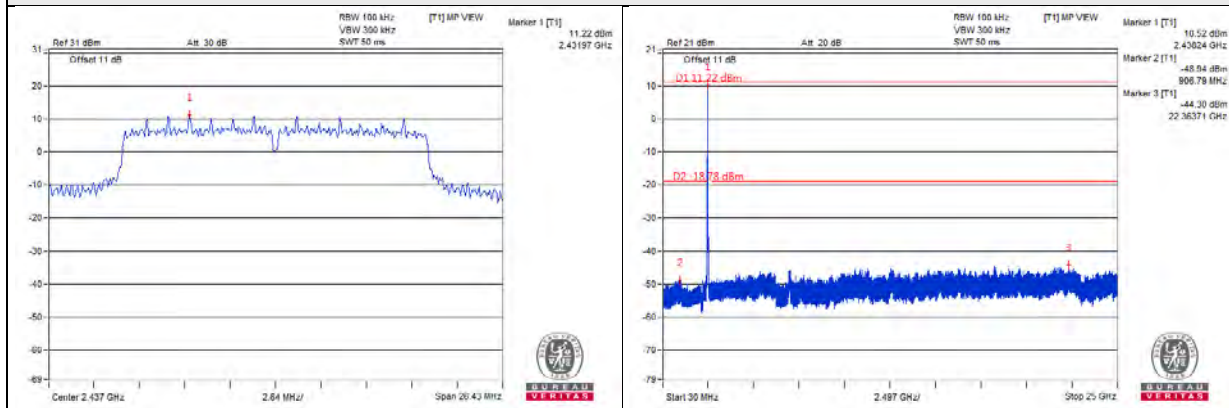


802.11n (HT20)_Chain 0

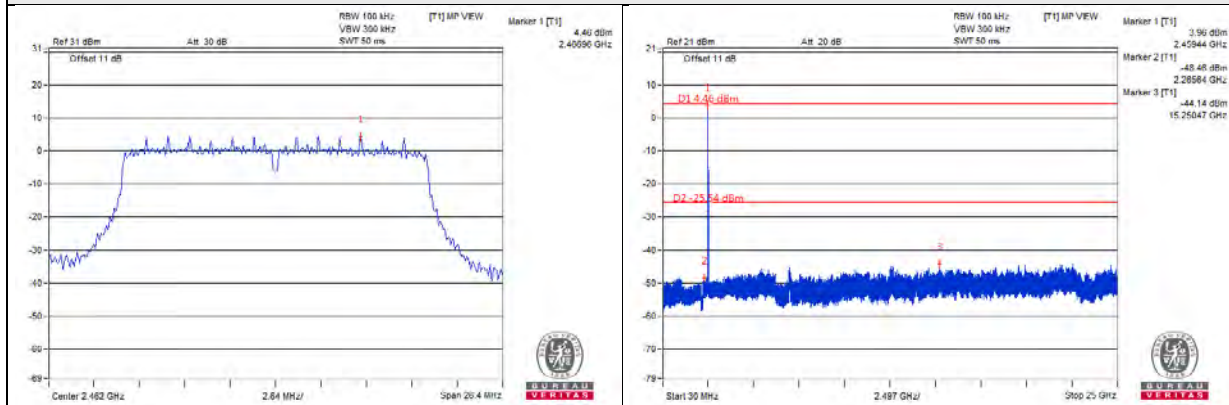
CH 1



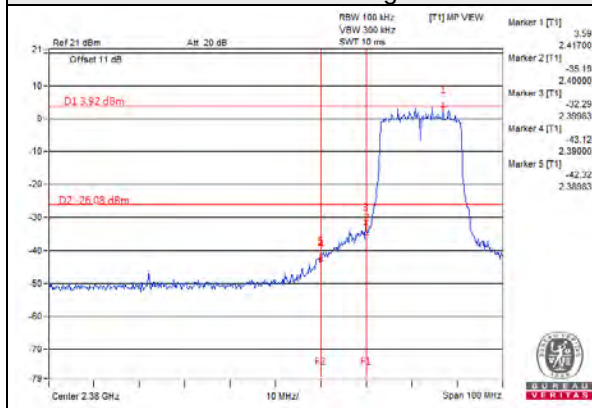
CH 6



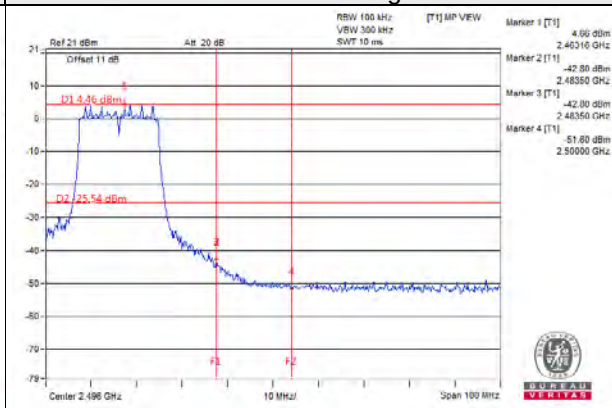
CH 11



CH 1 Band edge

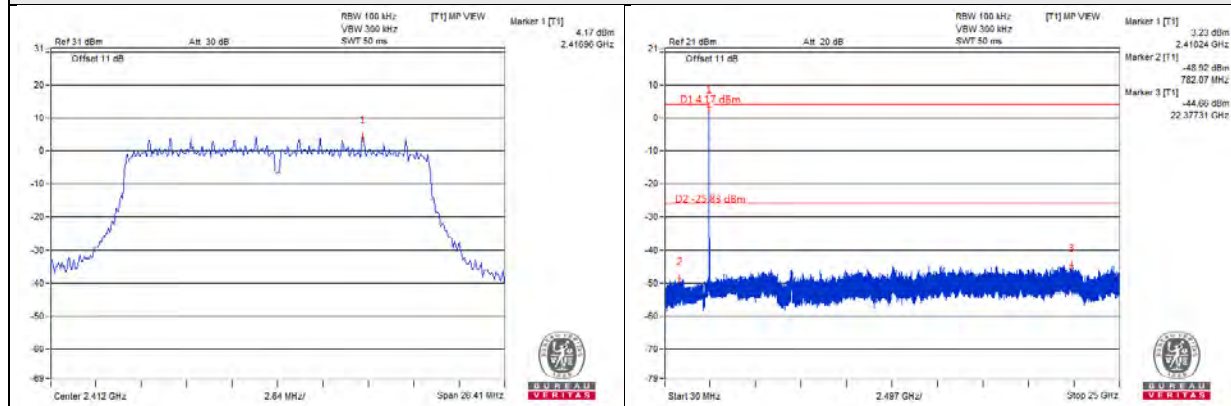


CH 11 Band edge

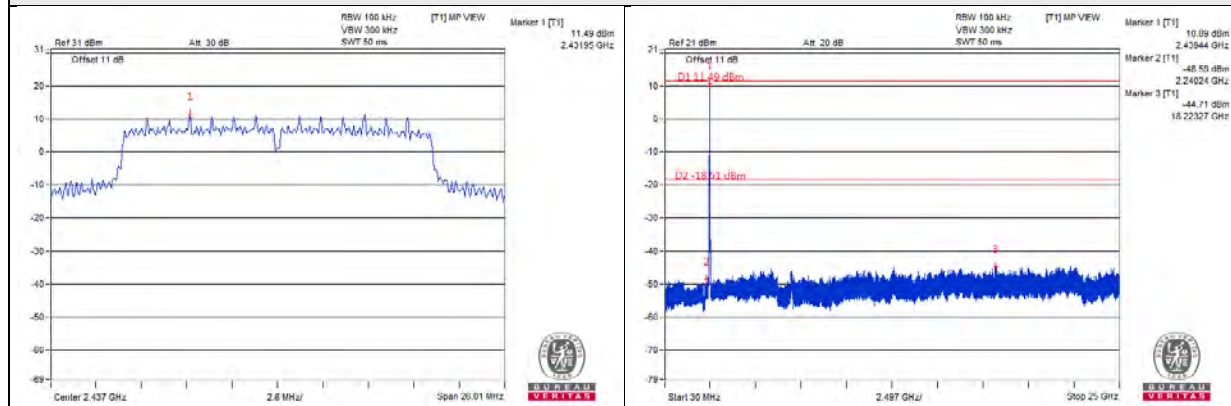


802.11n (HT20)_Chain 1

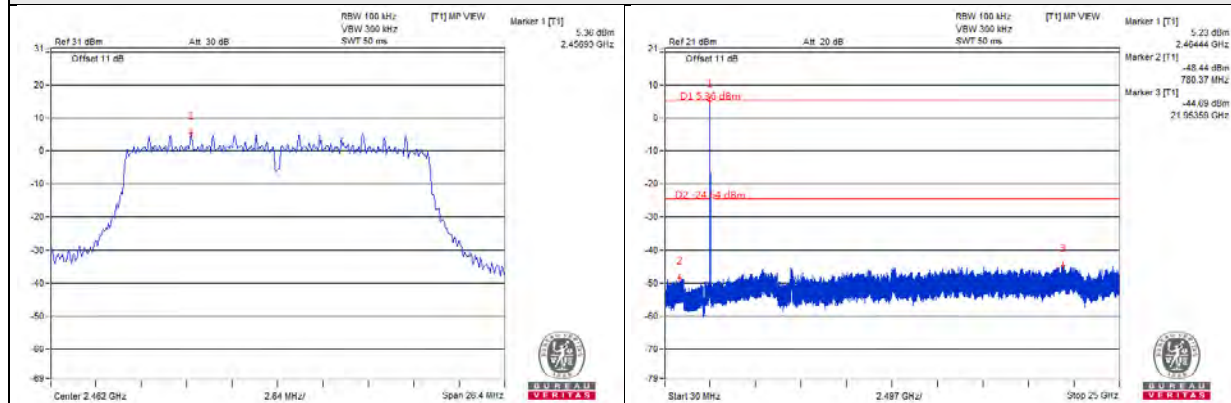
CH 1



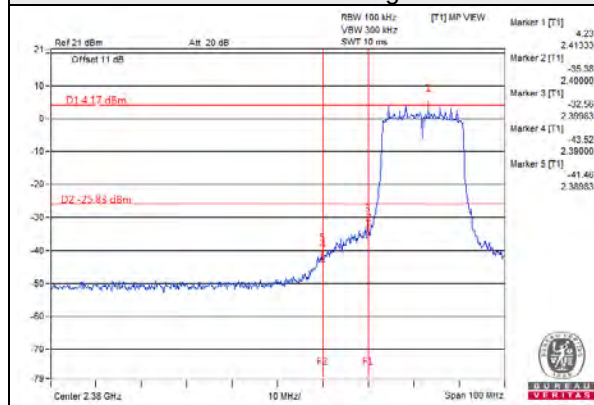
CH 6



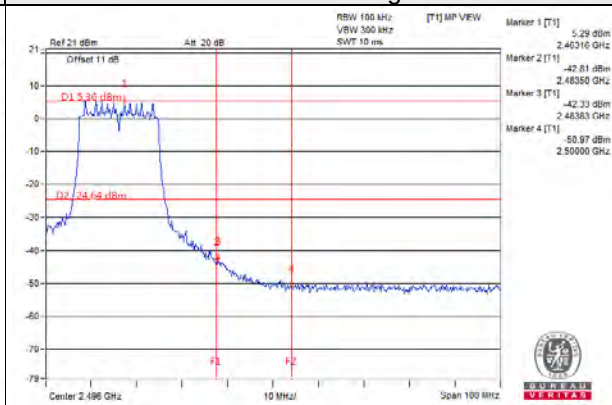
CH 11



CH 1 Band edge

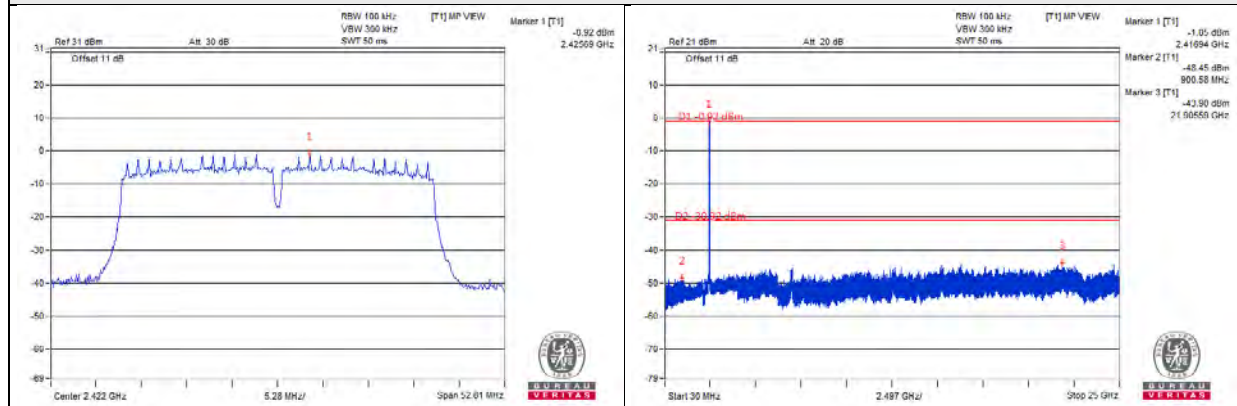


CH 11 Band edge

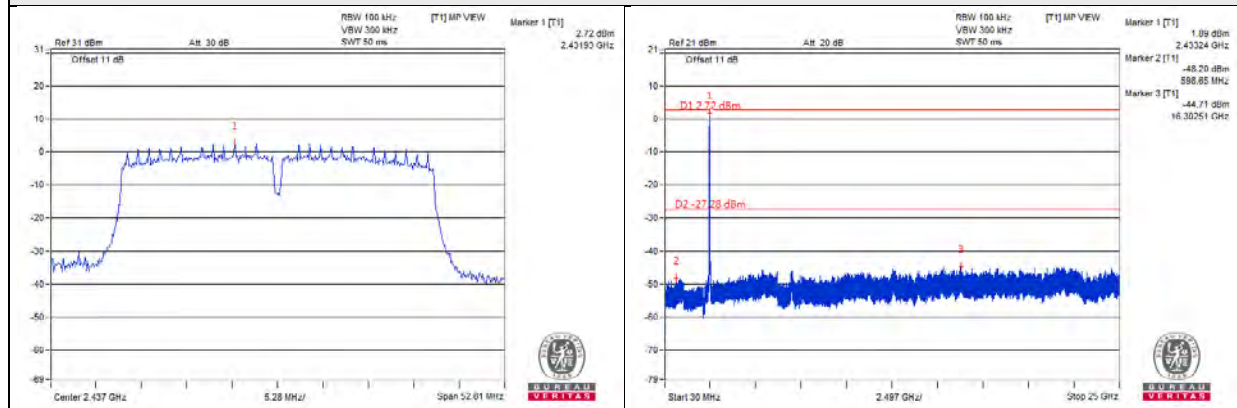


802.11n (HT40)_Chain 0

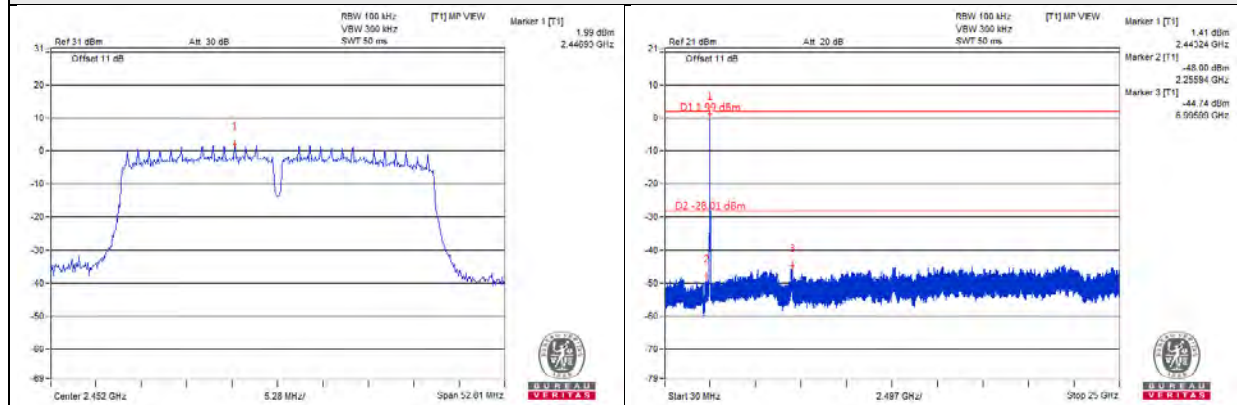
CH 3



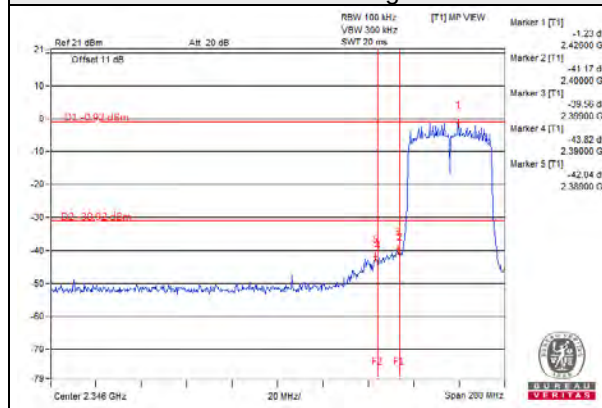
CH 6



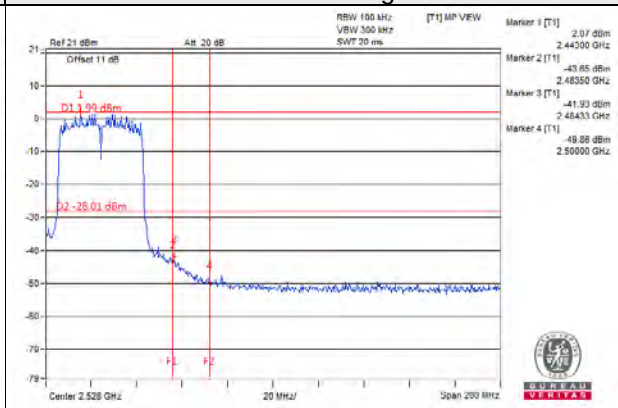
CH 9



CH 3 Band edge

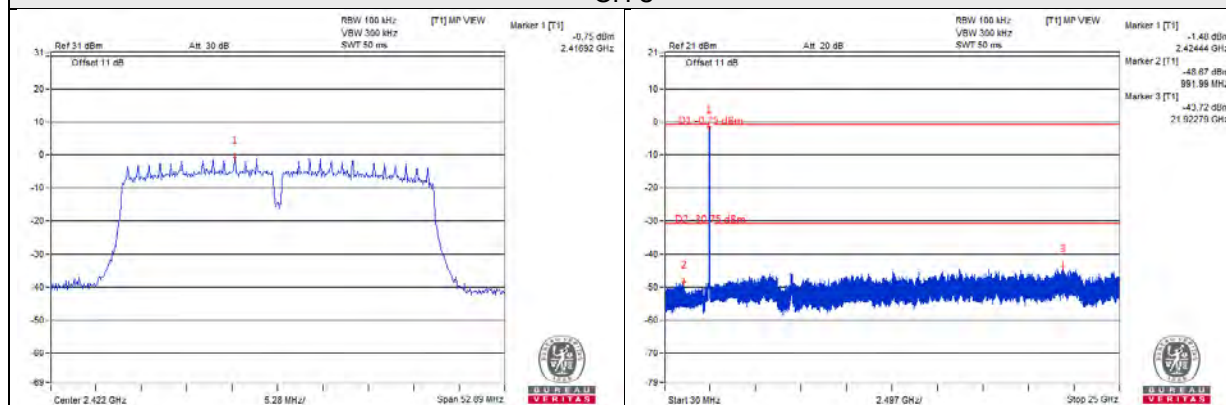


CH 9 Band edge

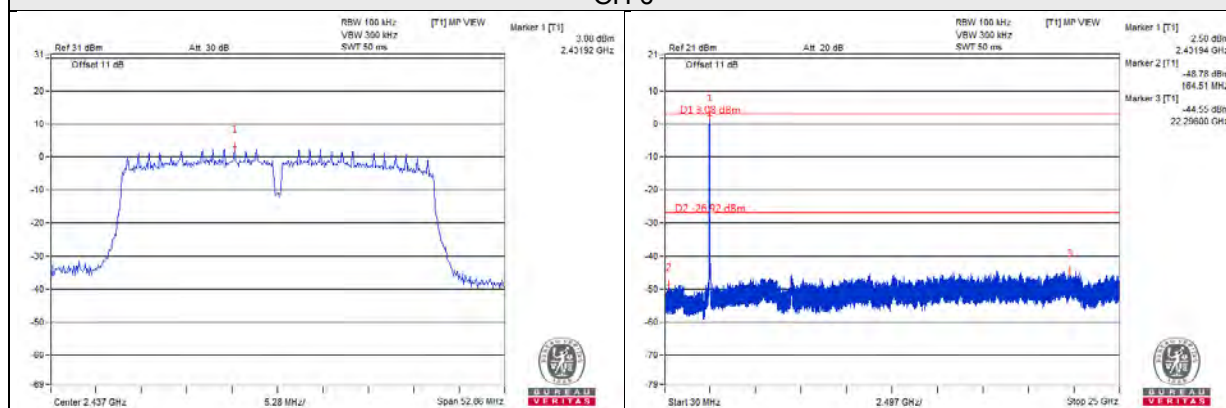


802.11n (HT40)_Chain 1

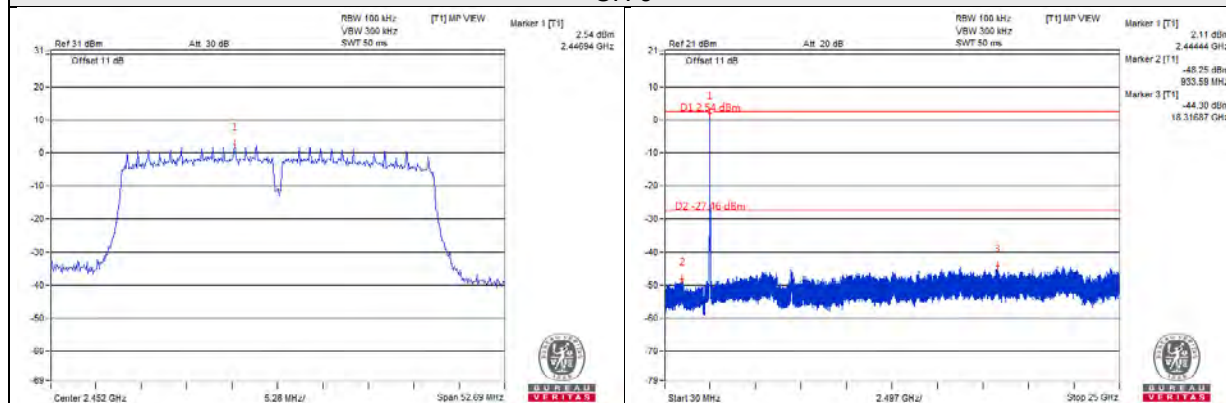
CH 3



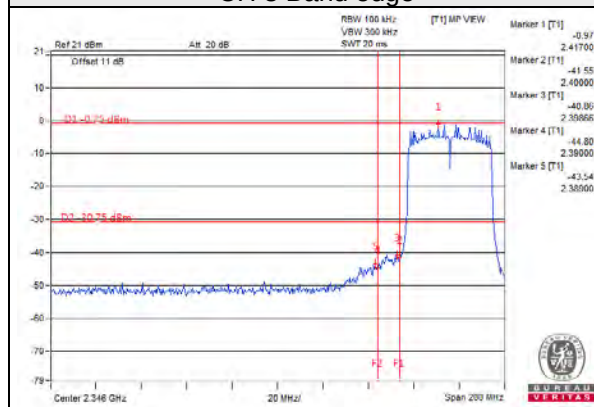
CH 6



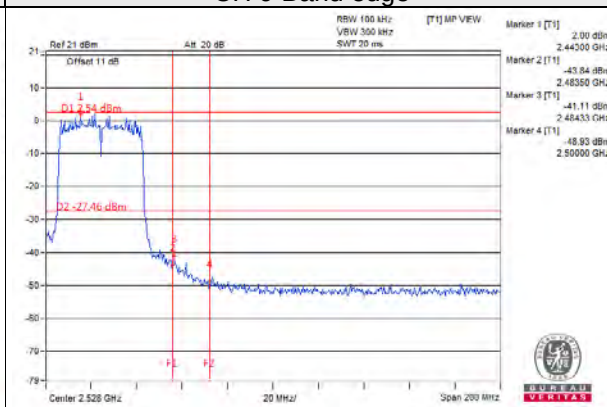
CH 9



CH 3 Band edge

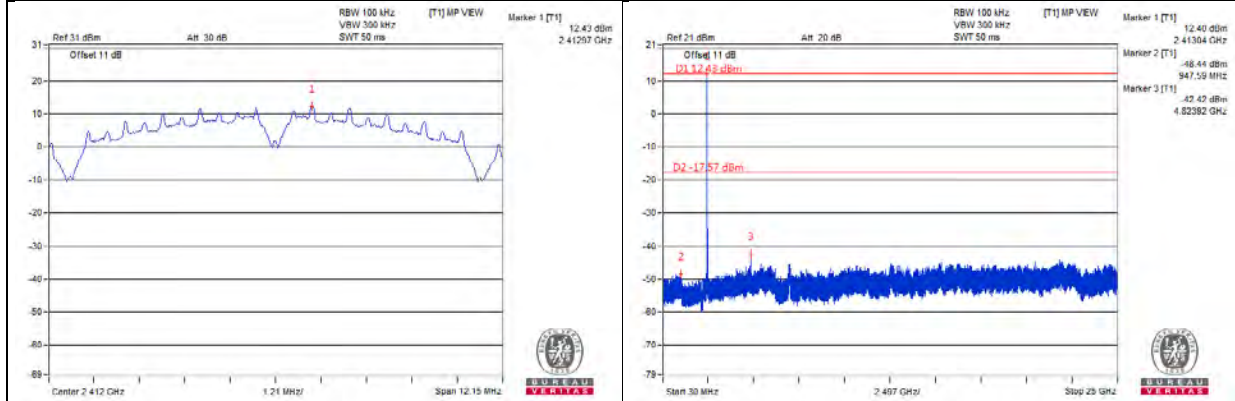


CH 9 Band edge

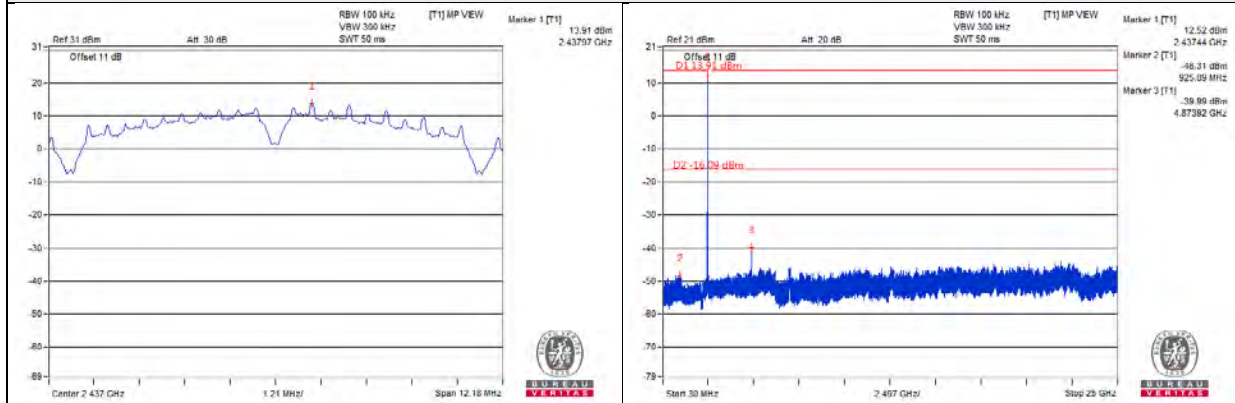


Test Mode B
802.11b_Chain 0

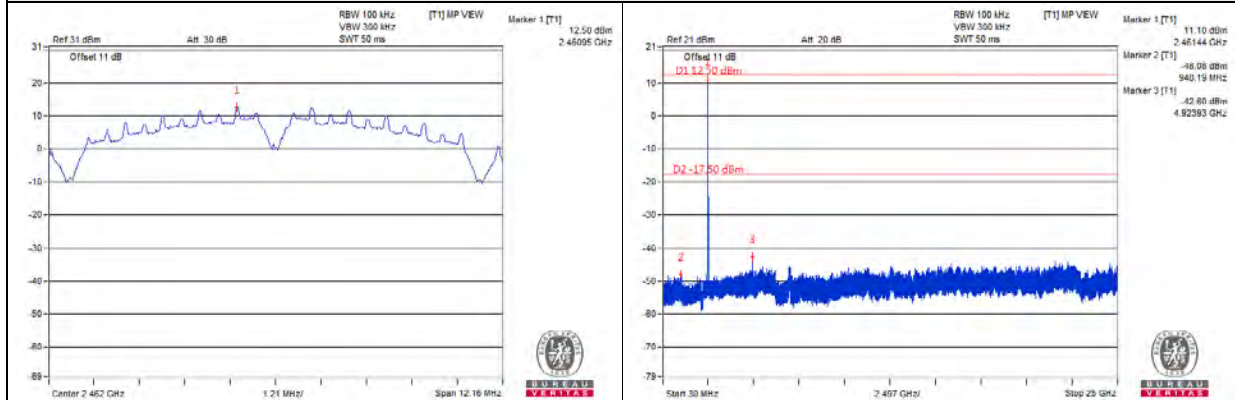
CH 1



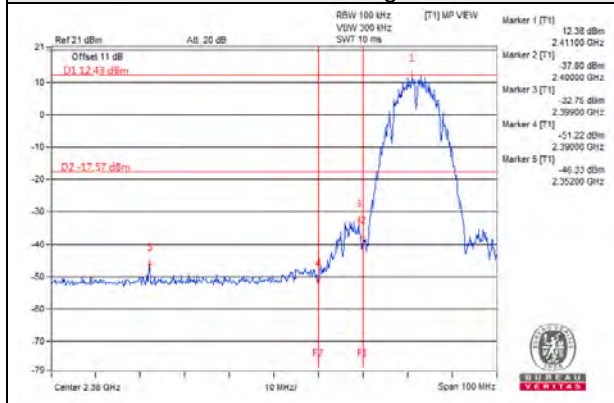
CH 6



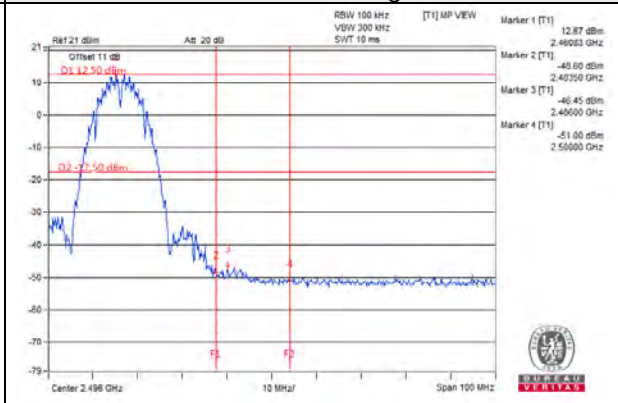
CH 11



CH 1 Band edge

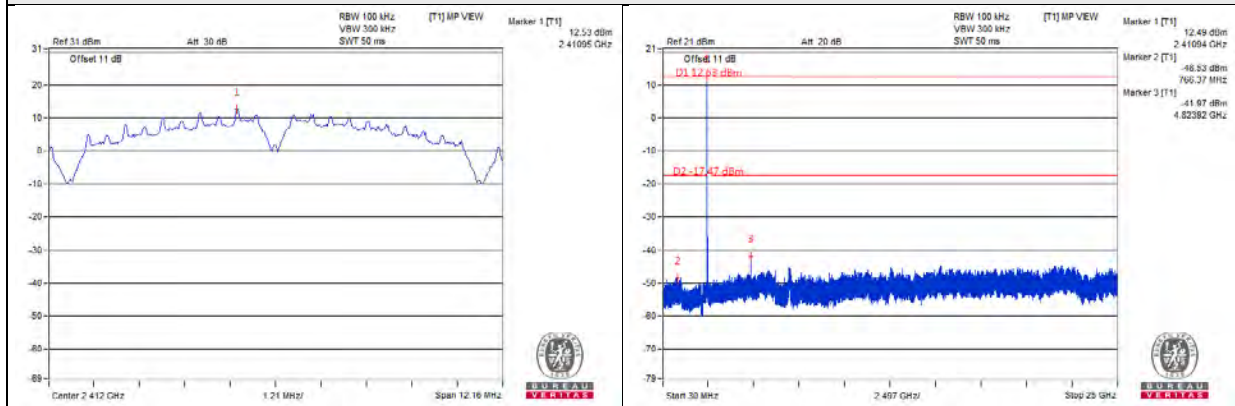


CH 11 Band edge

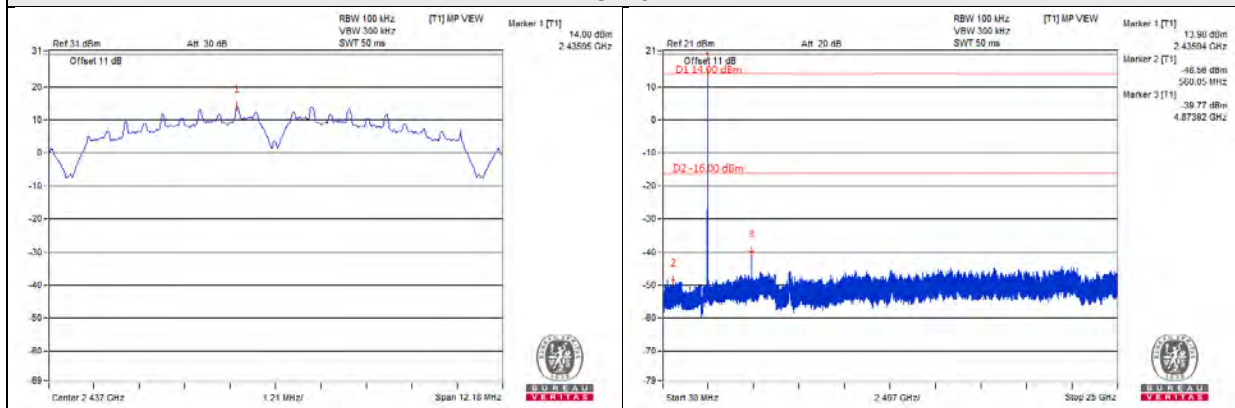


802.11b_Chain 1

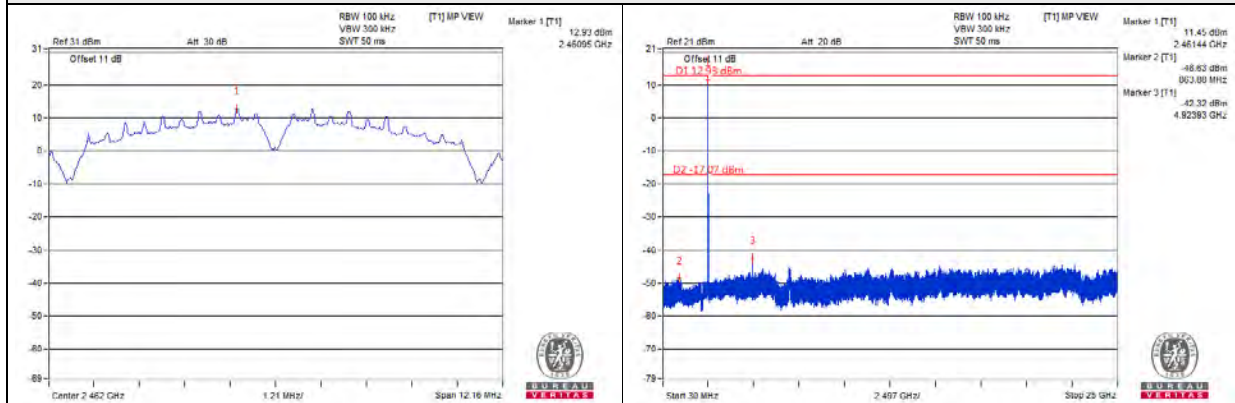
CH 1



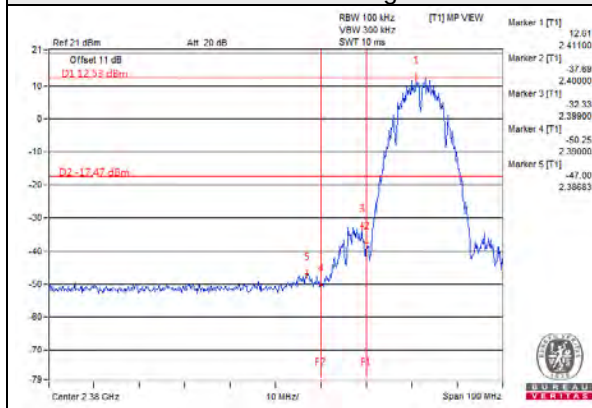
CH 6



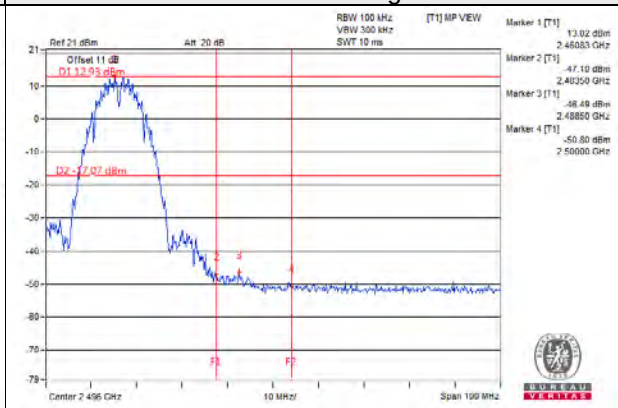
CH 11



CH 1 Band edge

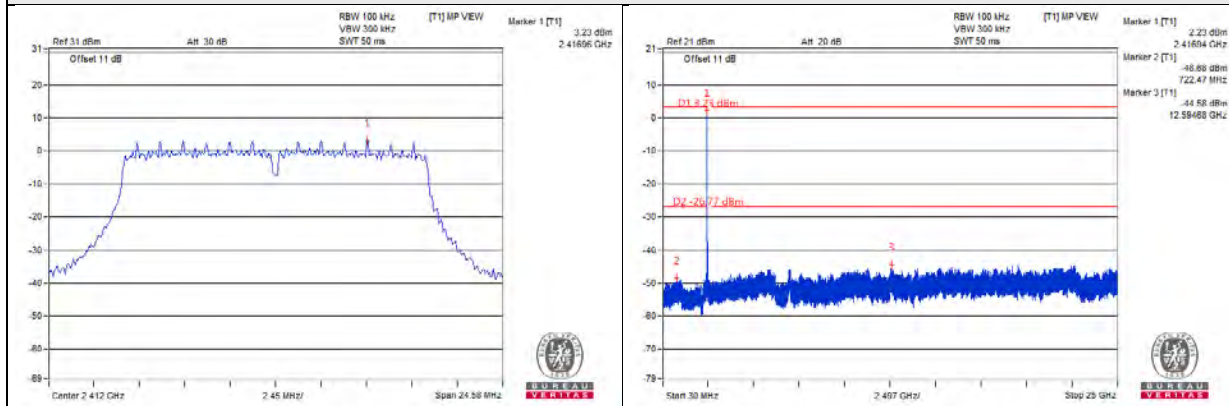


CH 11 Band edge

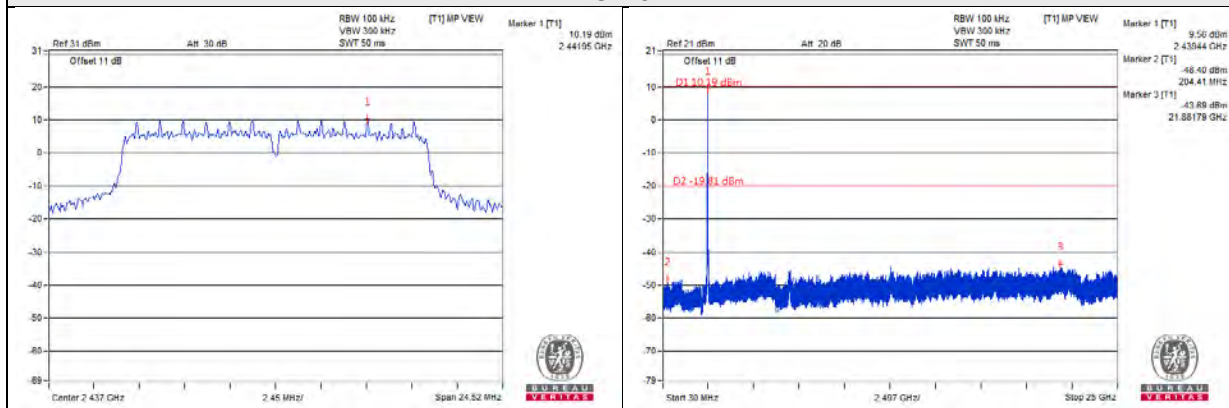


802.11g_Chain 0

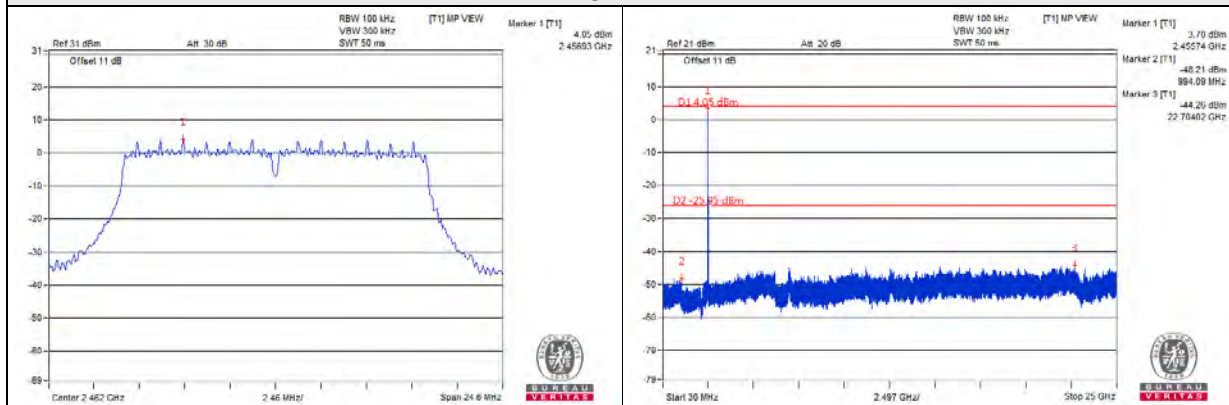
CH 1



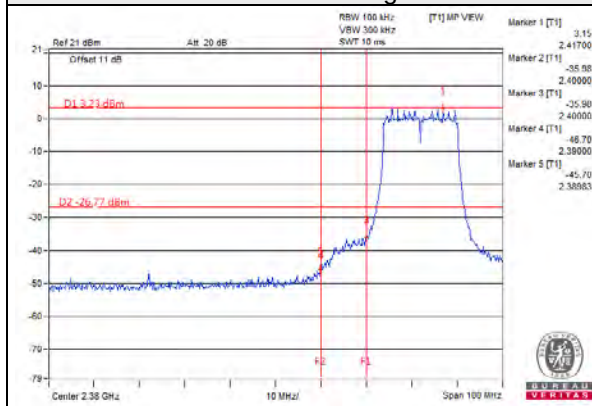
CH 6



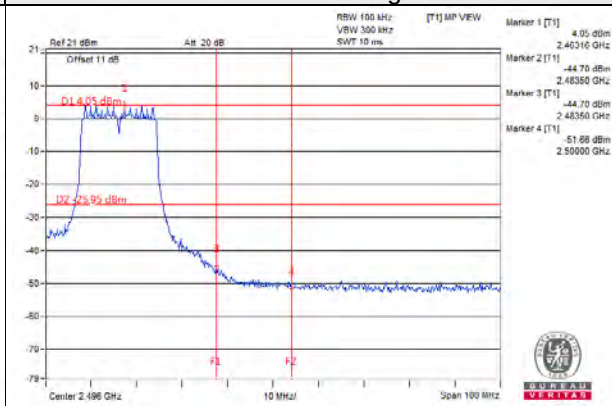
CH 11



CH 1 Band edge

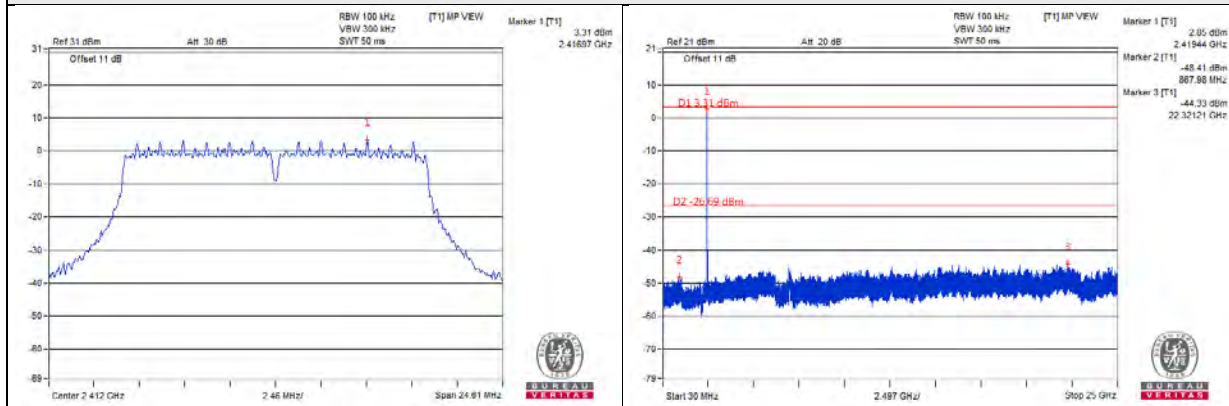


CH 11 Band edge

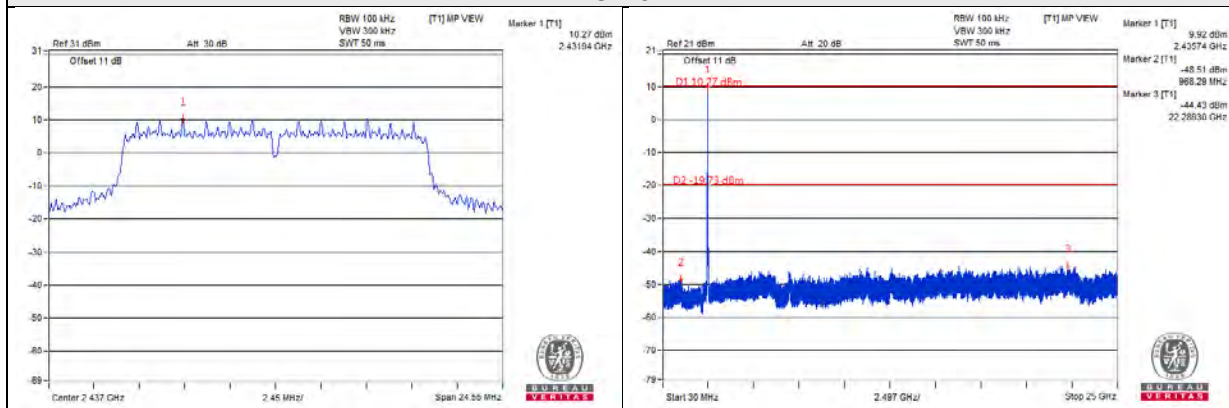


802.11g_Chain 1

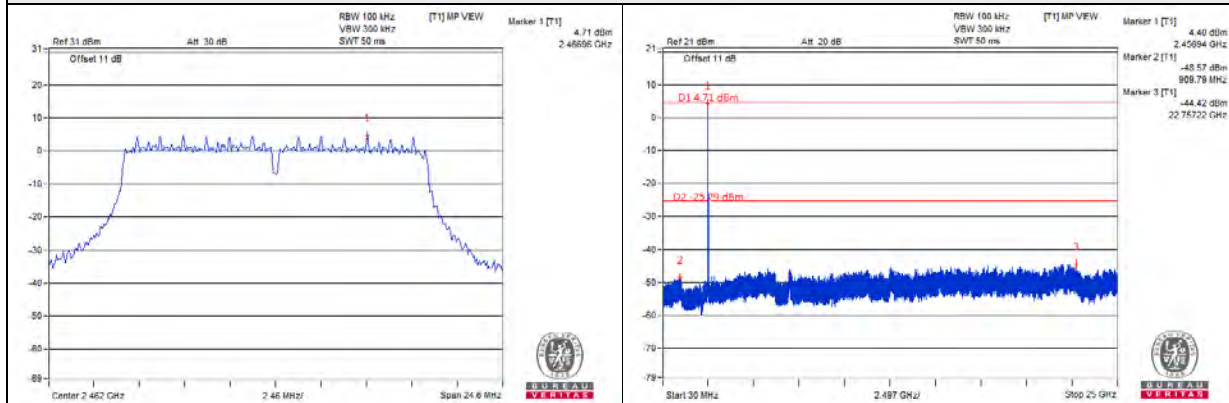
CH 1



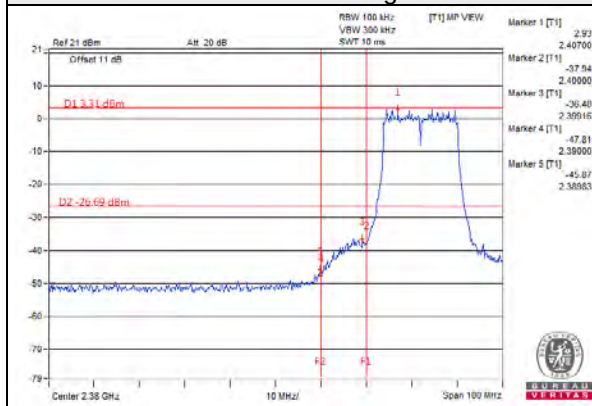
CH 6



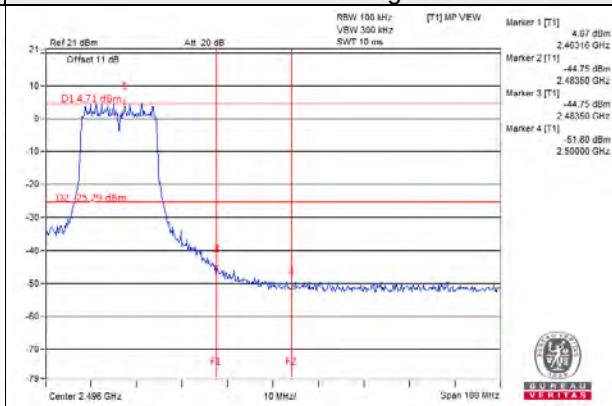
CH 11



CH 1 Band edge

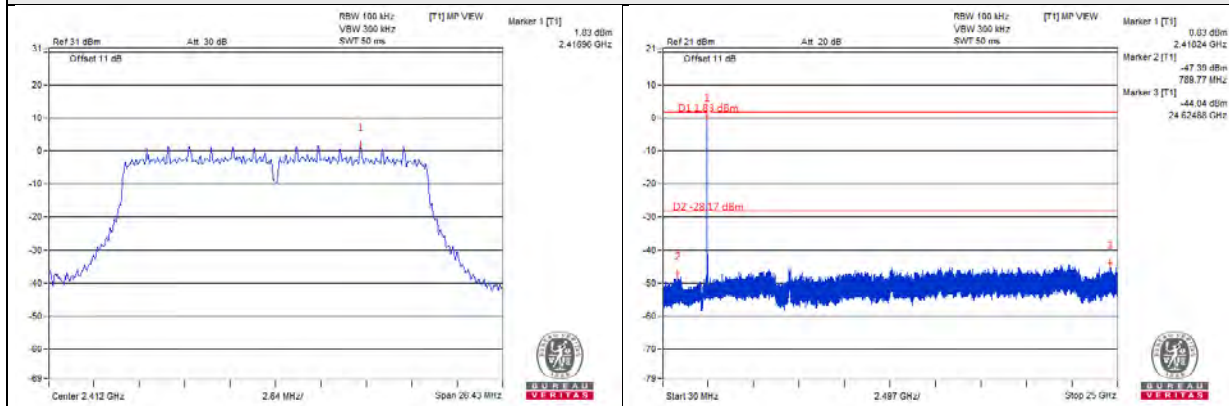


CH 11 Band edge

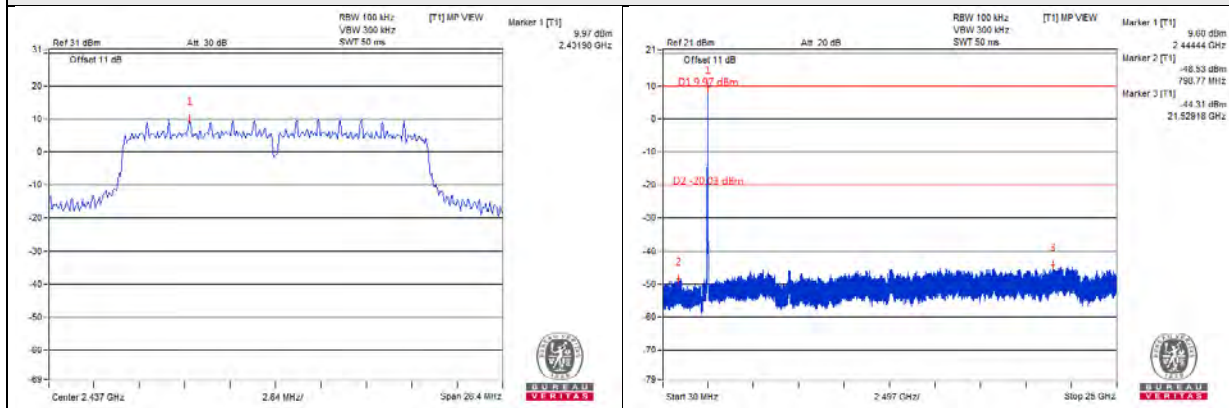


802.11n (HT20)_Chain 0

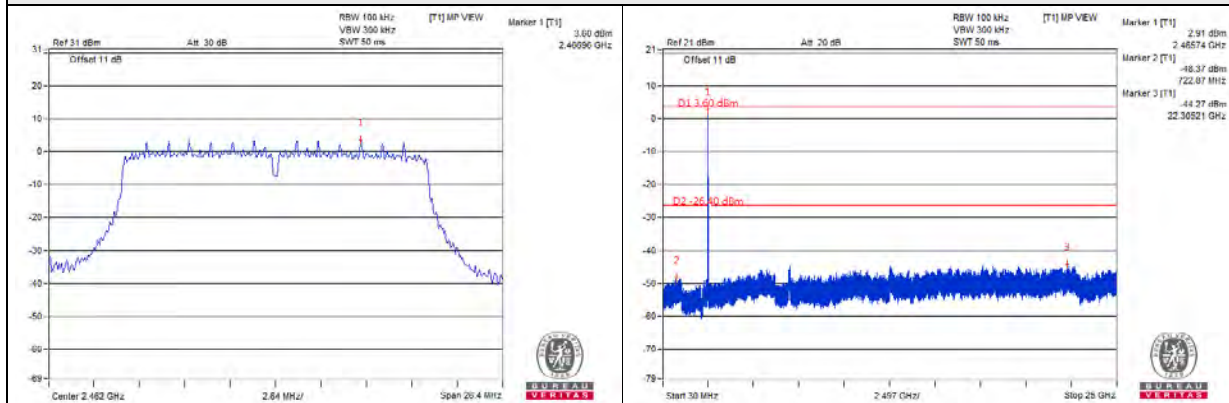
CH 1



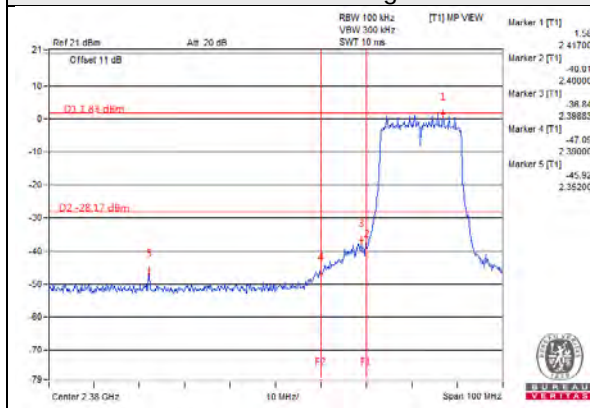
CH 6



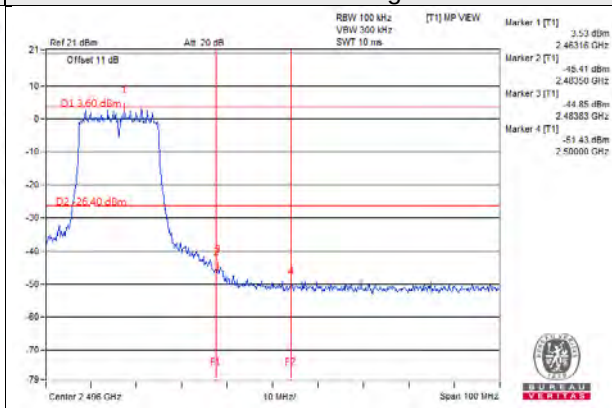
CH 11



CH 1 Band edge

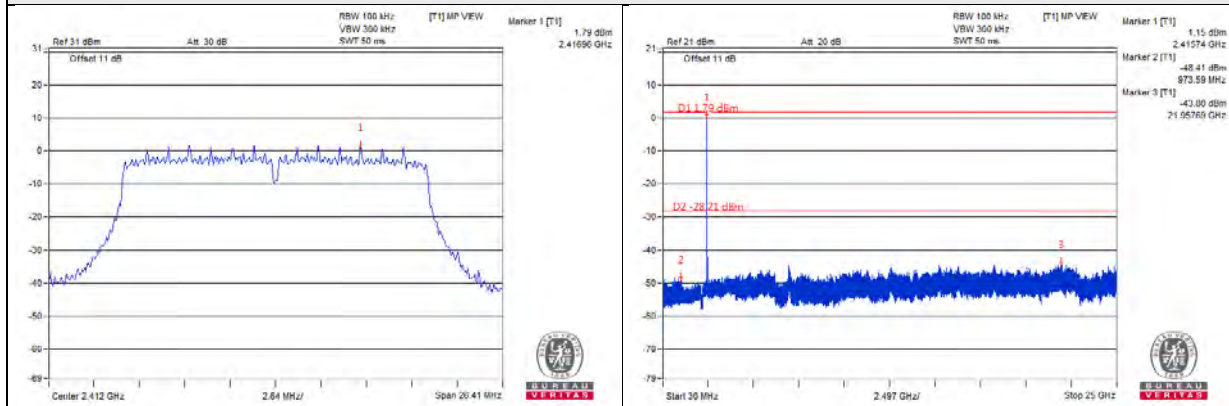


CH 11 Band edge

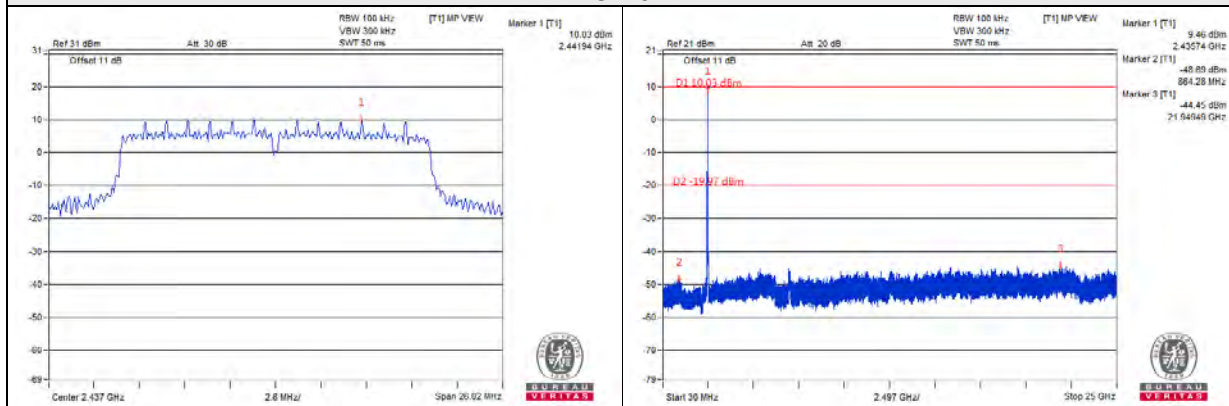


802.11n (HT20)_Chain 1

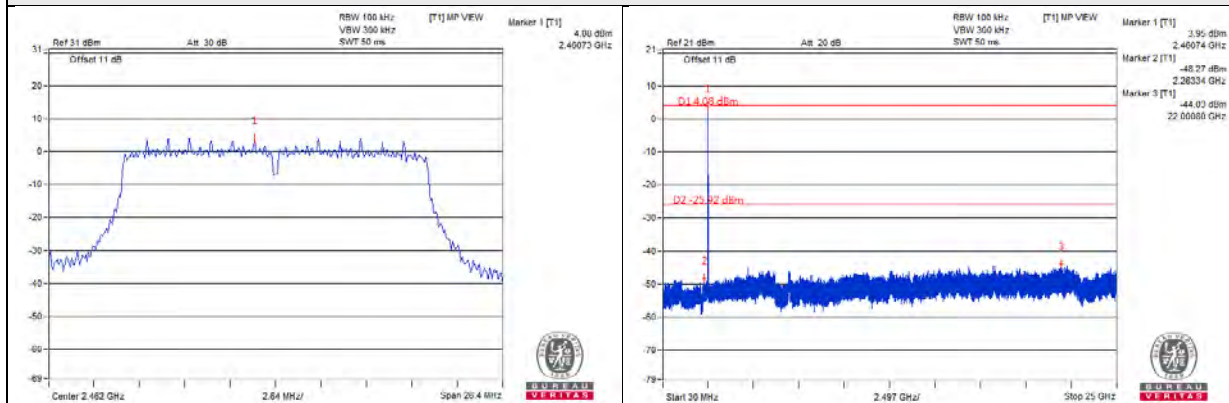
CH 1



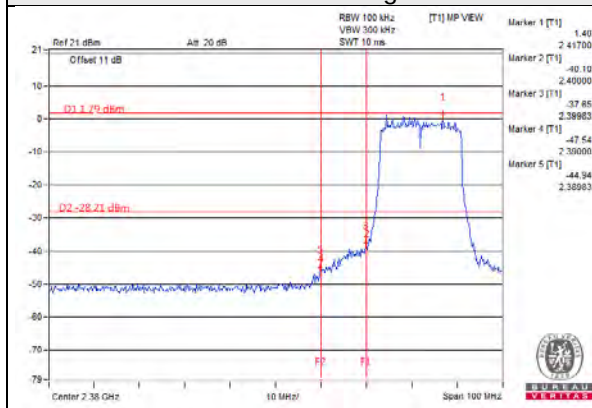
CH 6



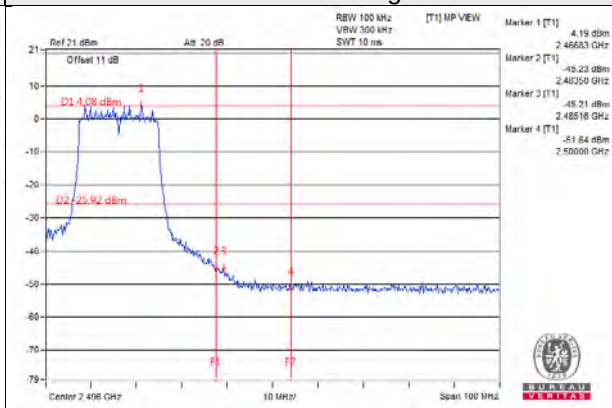
CH 11



CH 1 Band edge

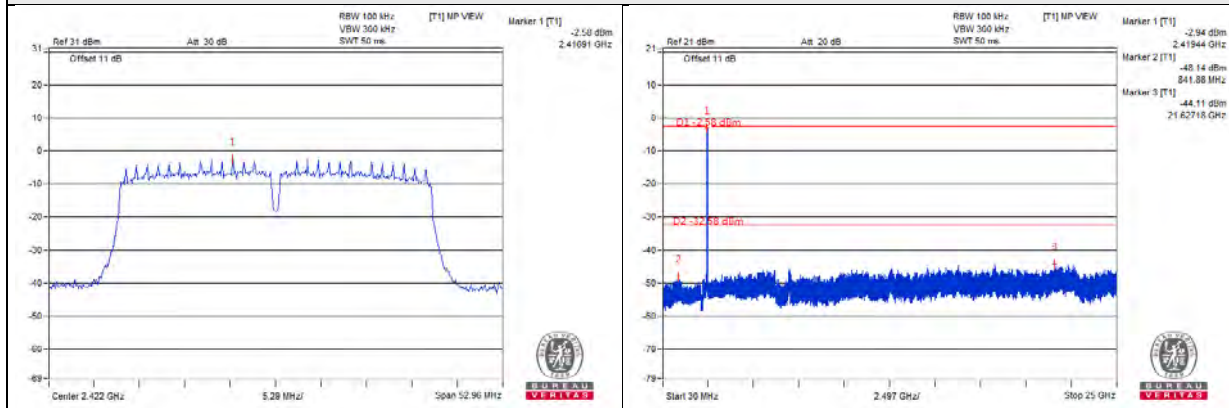


CH 11 Band edge

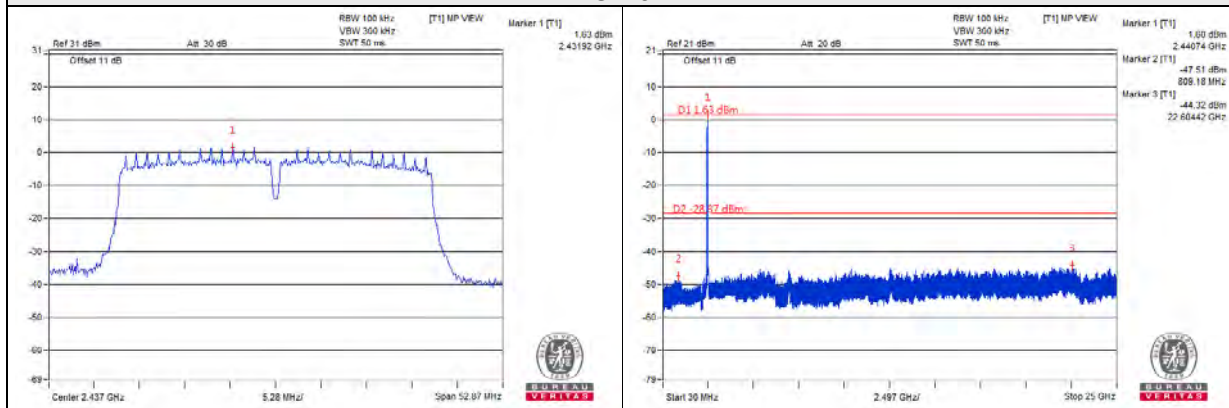


802.11n (HT40)_Chain 0

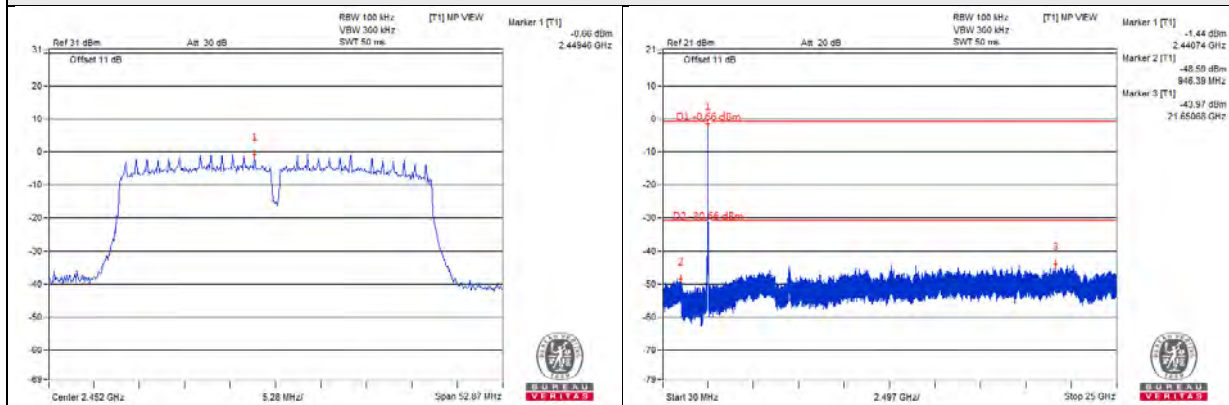
CH 3



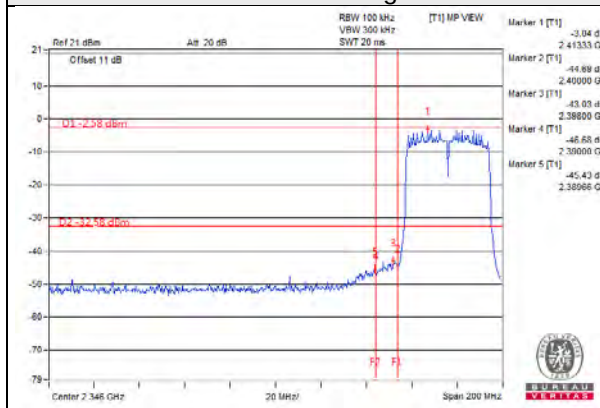
CH 6



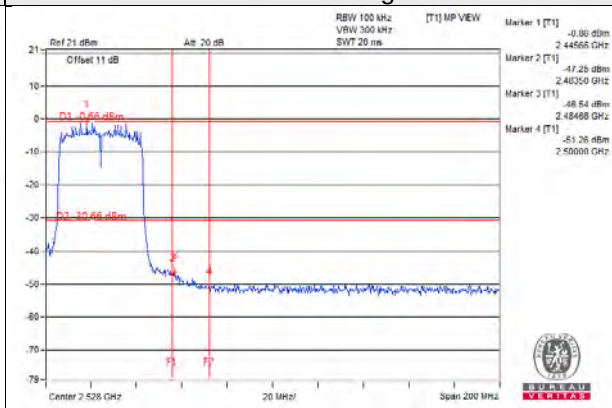
CH 9



CH 3 Band edge

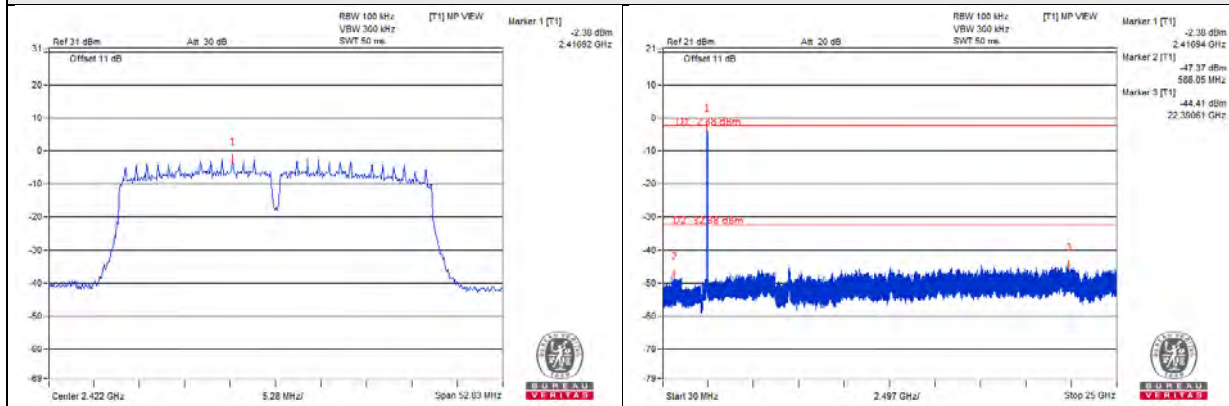


CH 9 Band edge

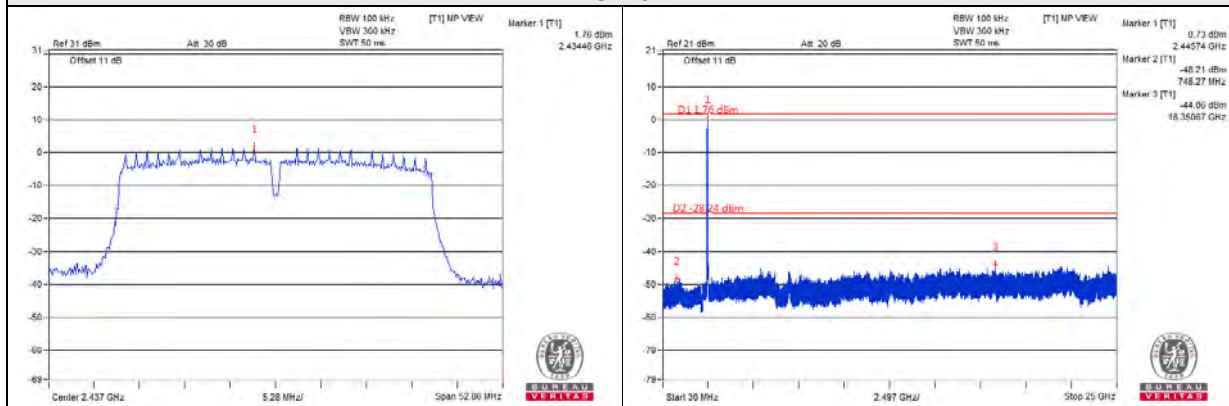


802.11n (HT40)_Chain 1

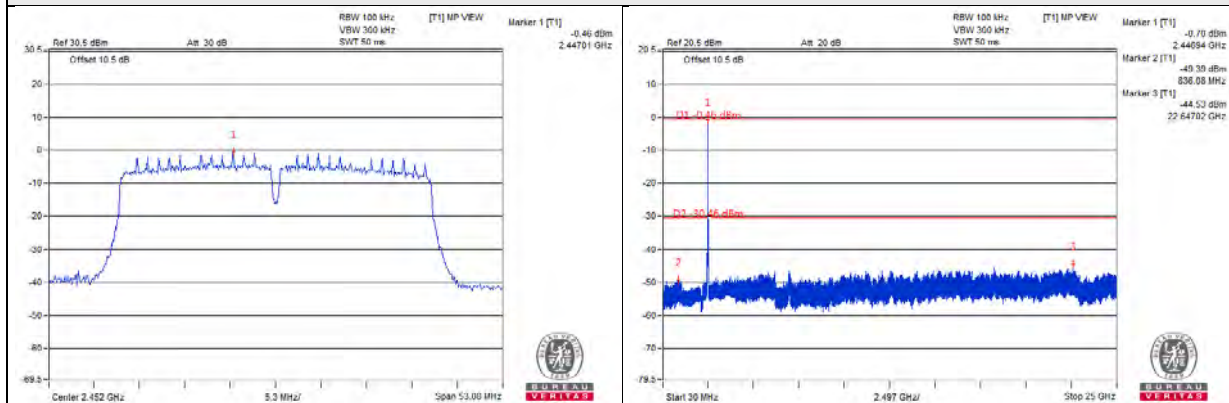
CH 3



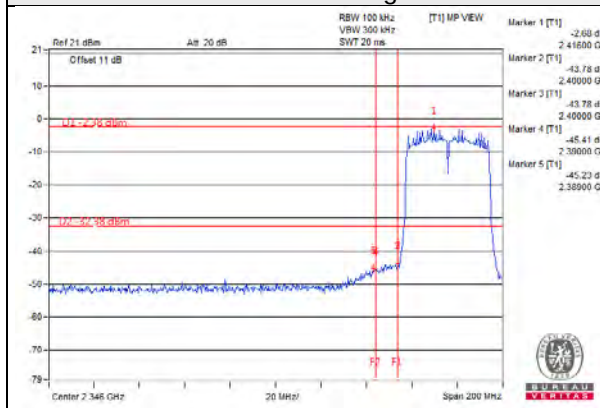
CH 6



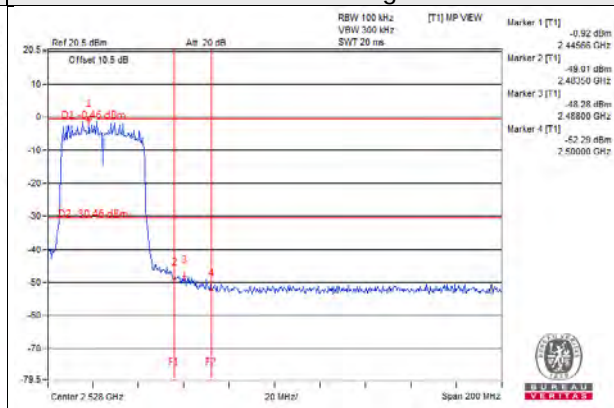
CH 9



CH 3 Band edge

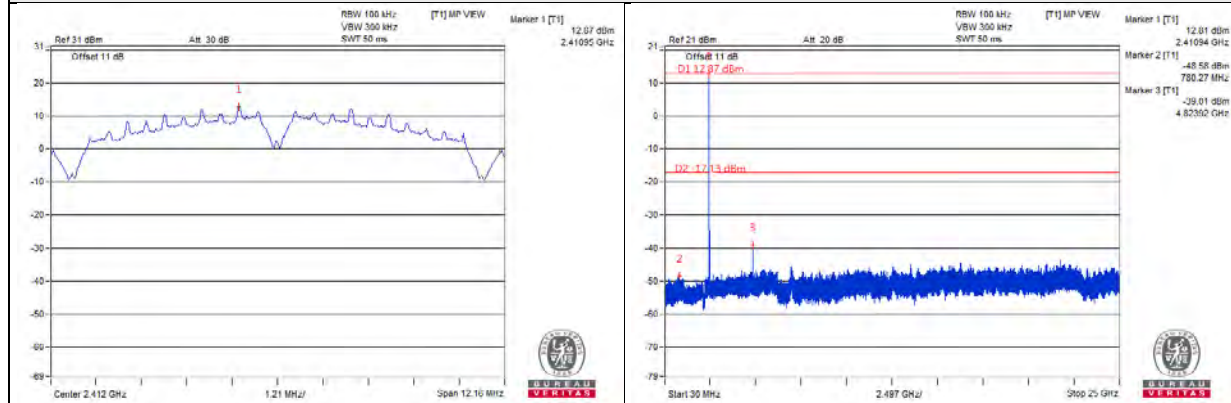


CH 9 Band edge

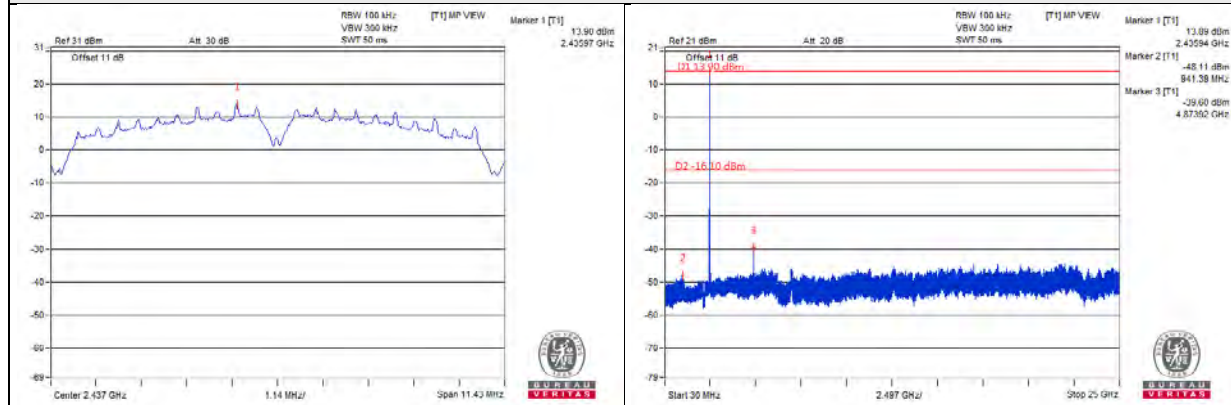


Test Mode C
802.11b_Chain 0

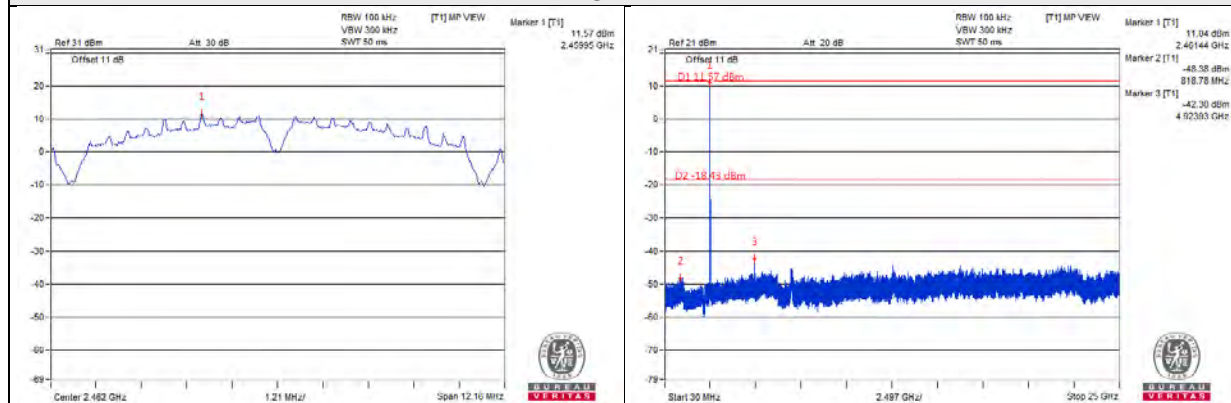
CH 1



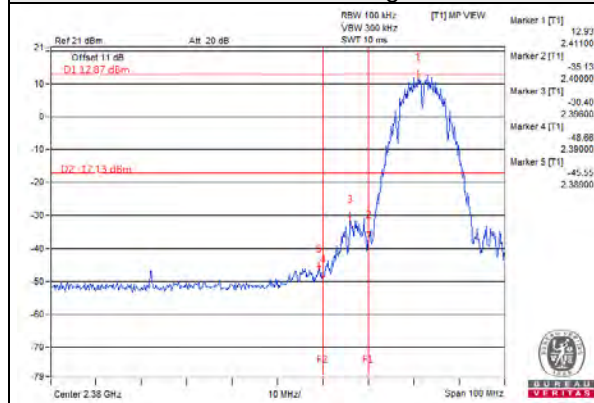
CH 6



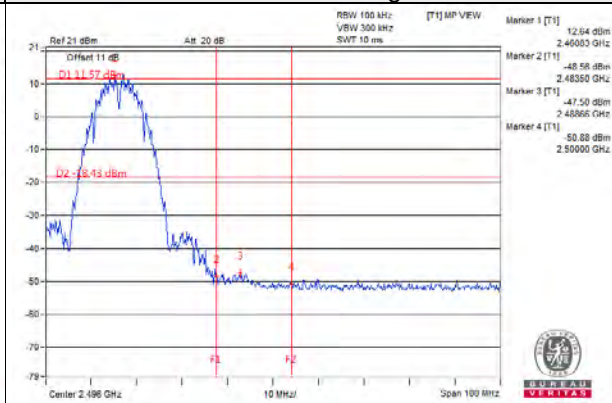
CH 11



CH 1 Band edge

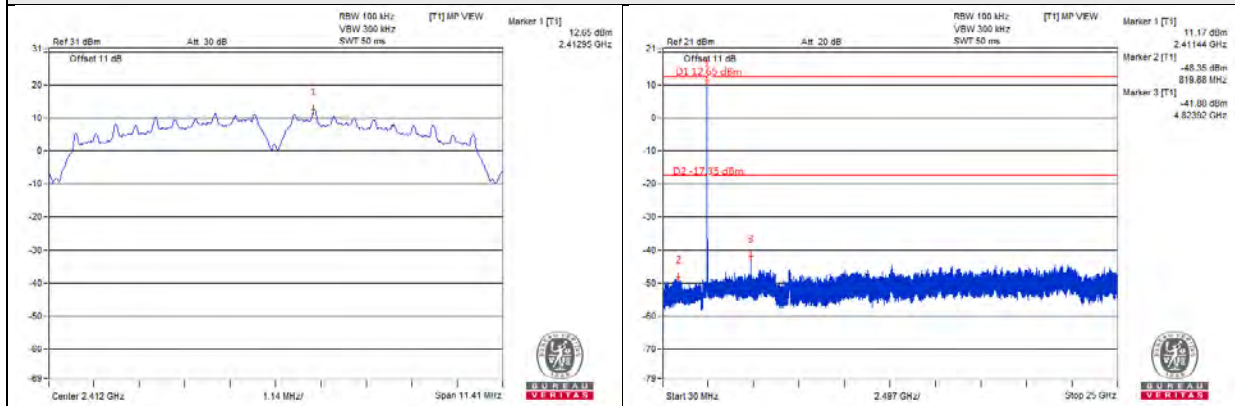


CH 11 Band edge

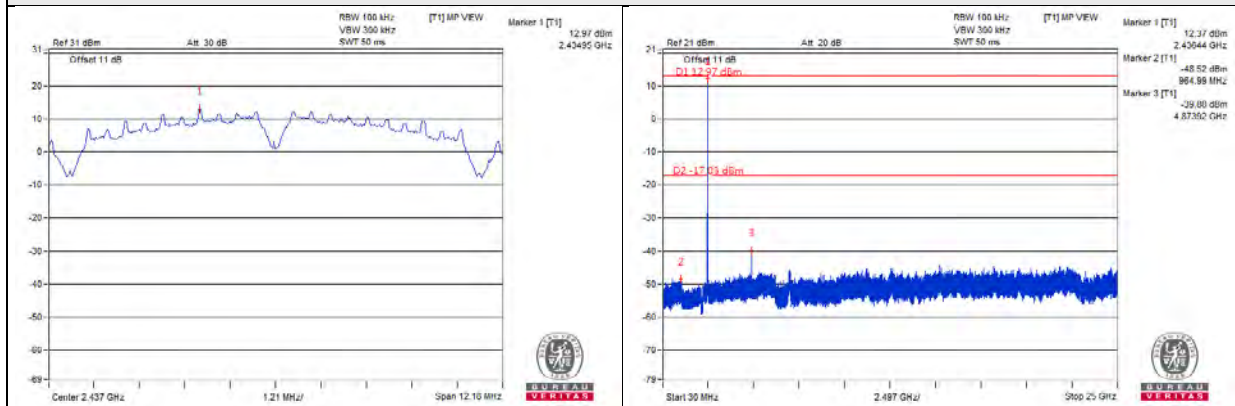


802.11b_Chain 1

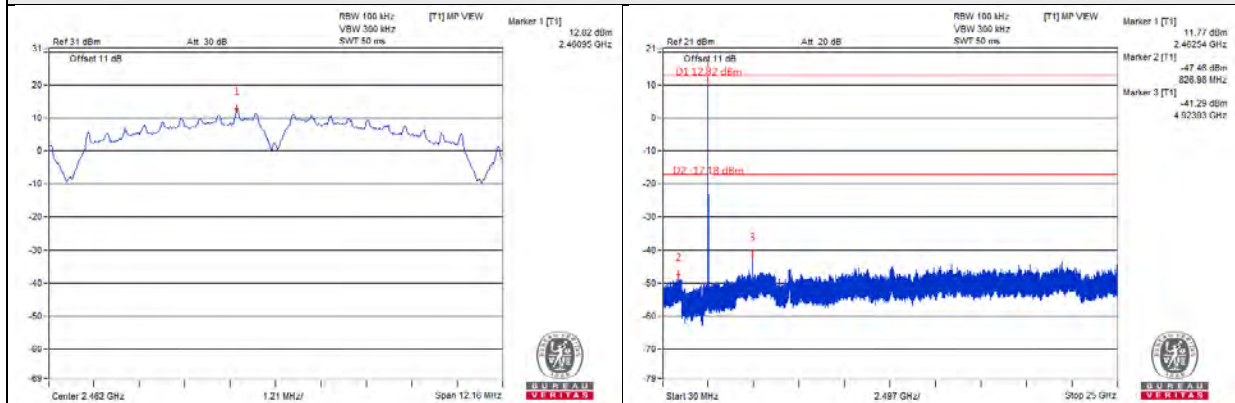
CH 1



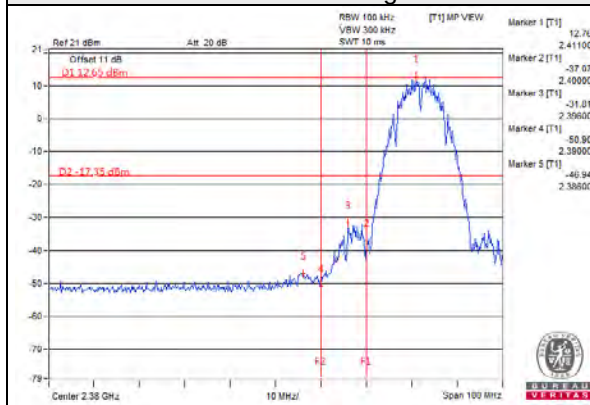
CH 6



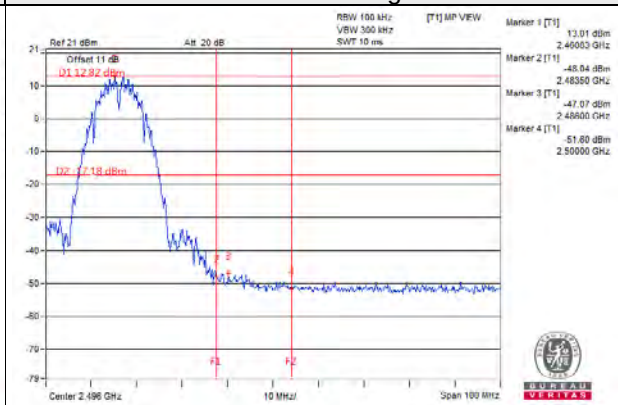
CH 11



CH 1 Band edge

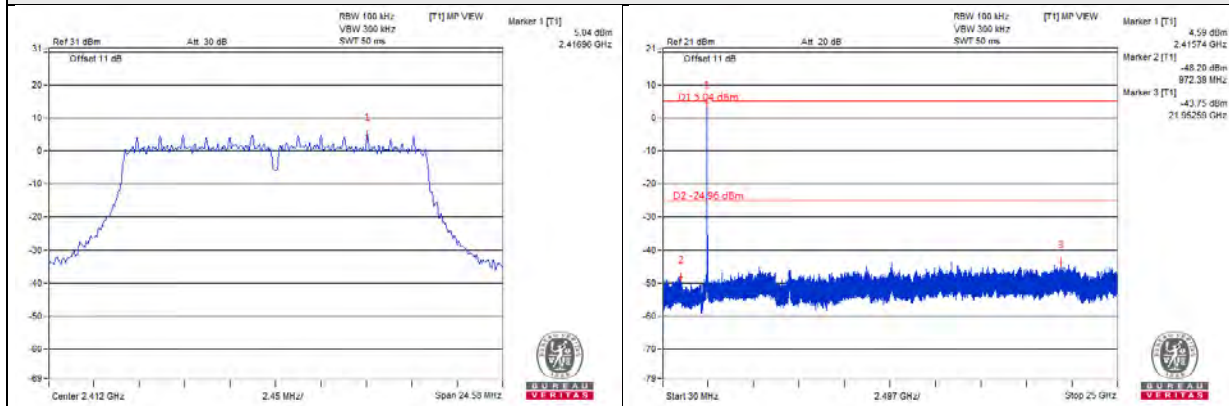


CH 11 Band edge

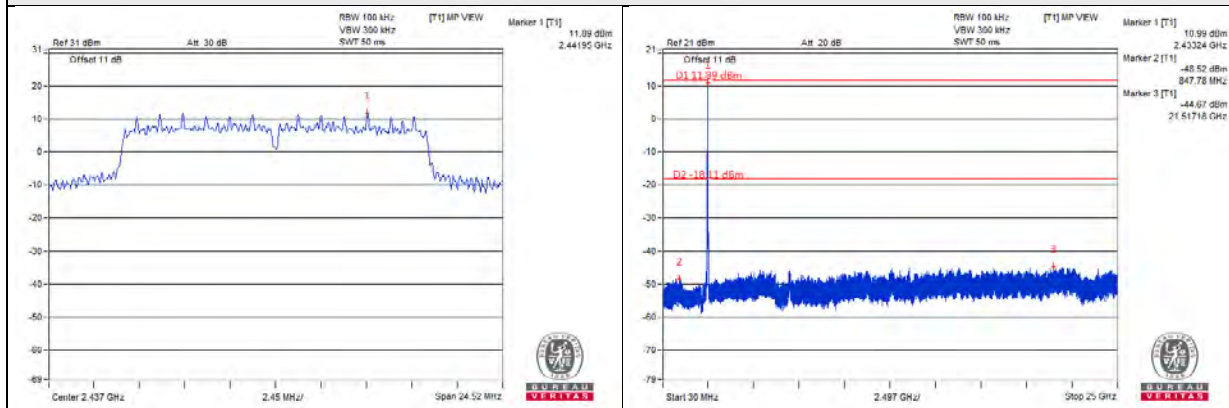


802.11g_Chain 0

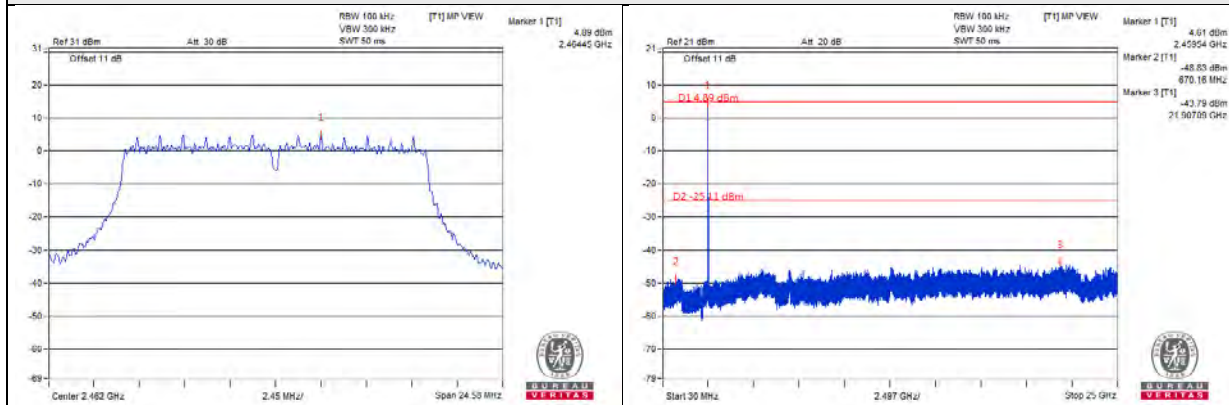
CH 1



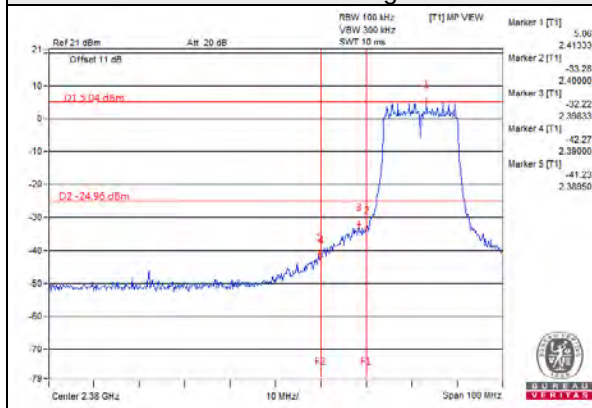
CH 6



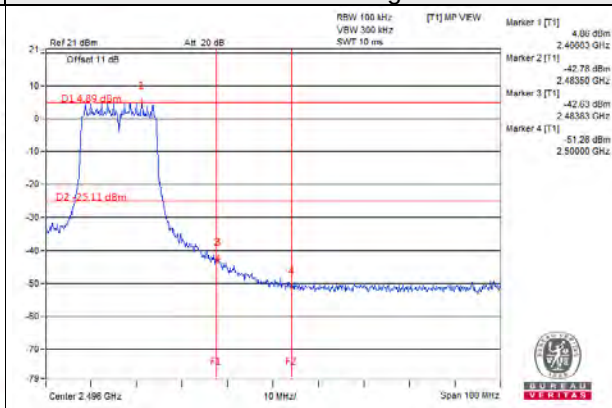
CH 11



CH 1 Band edge

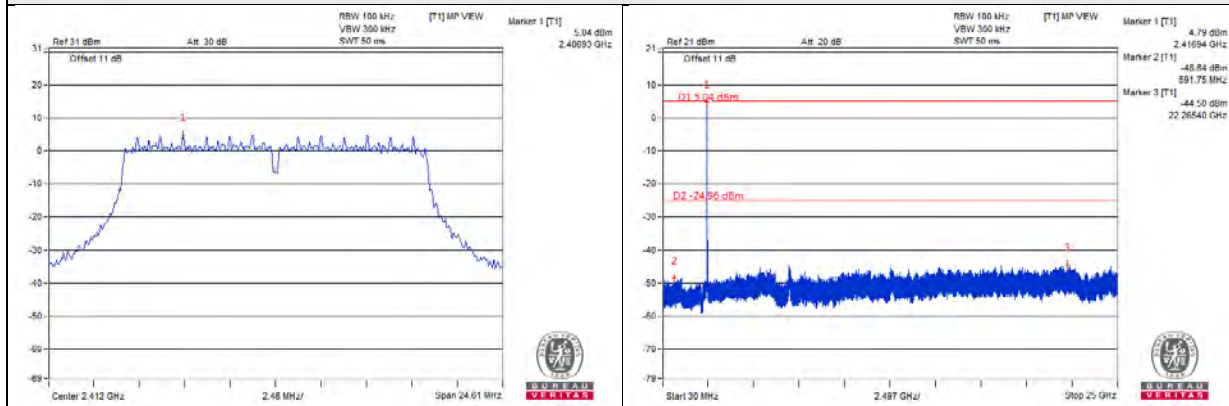


CH 11 Band edge

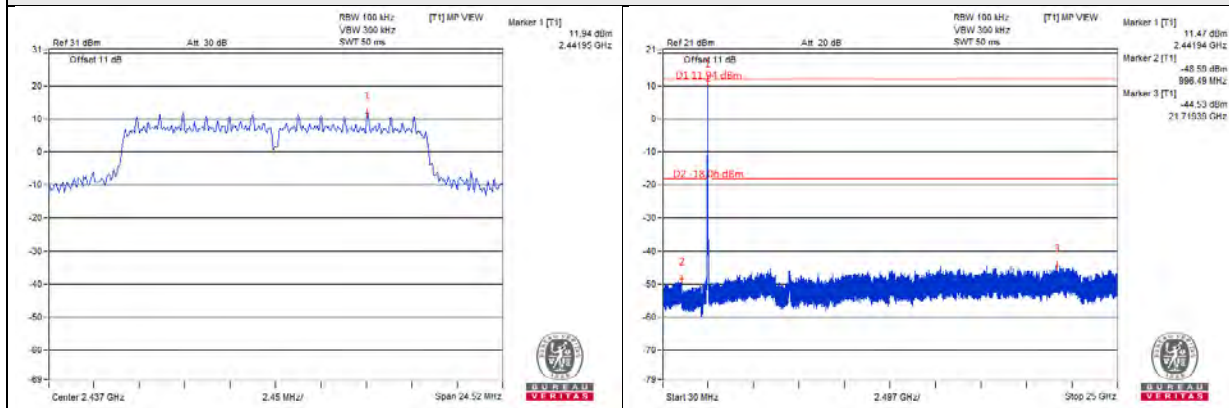


802.11g_Chain 1

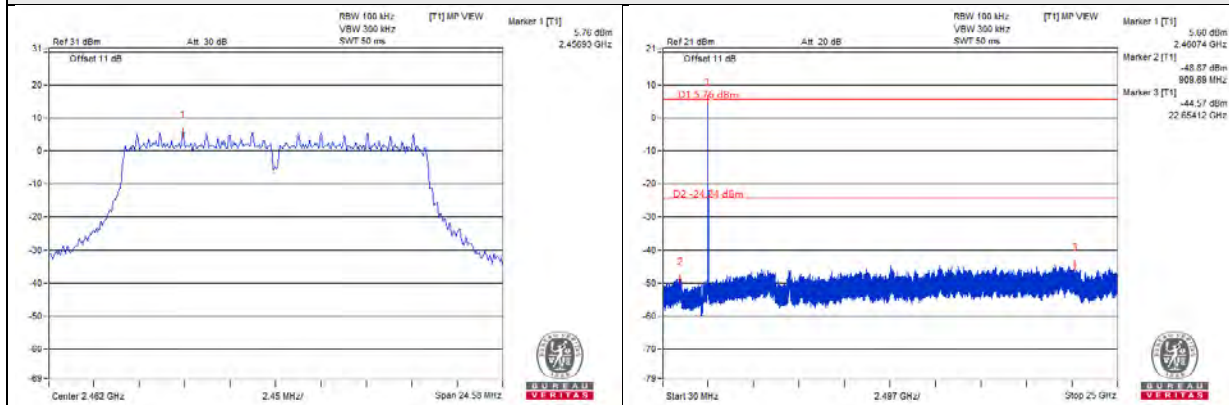
CH 1



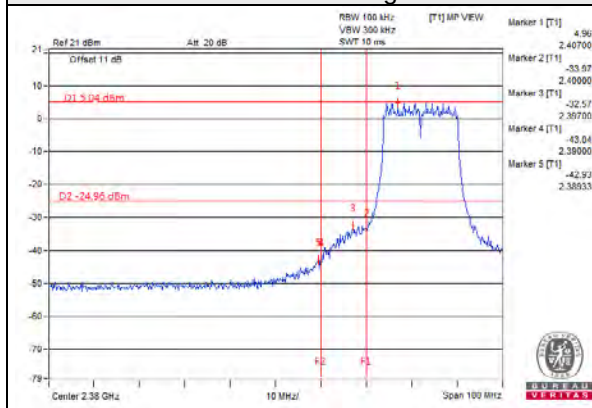
CH 6



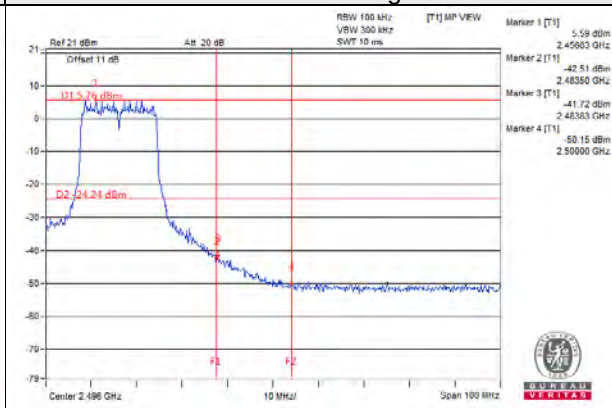
CH 11



CH 1 Band edge

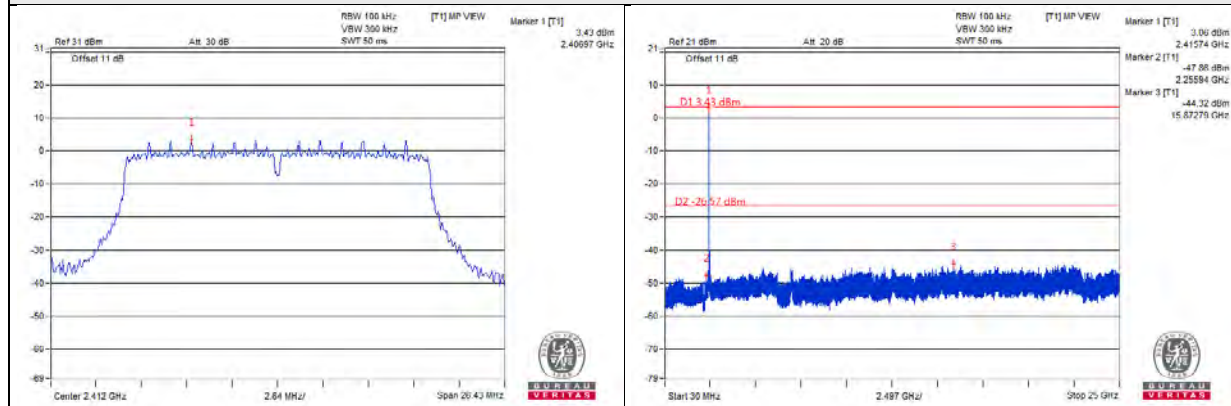


CH 11 Band edge

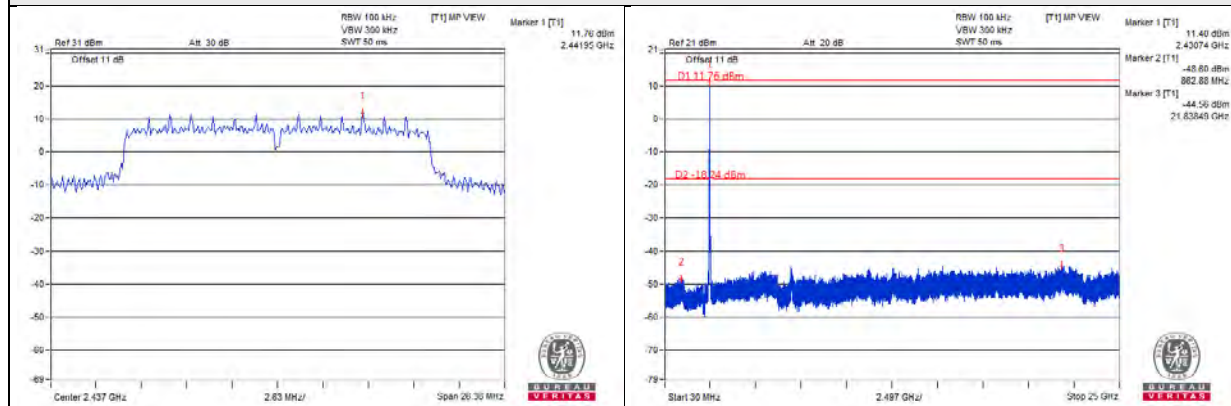


802.11n (HT20)_Chain 0

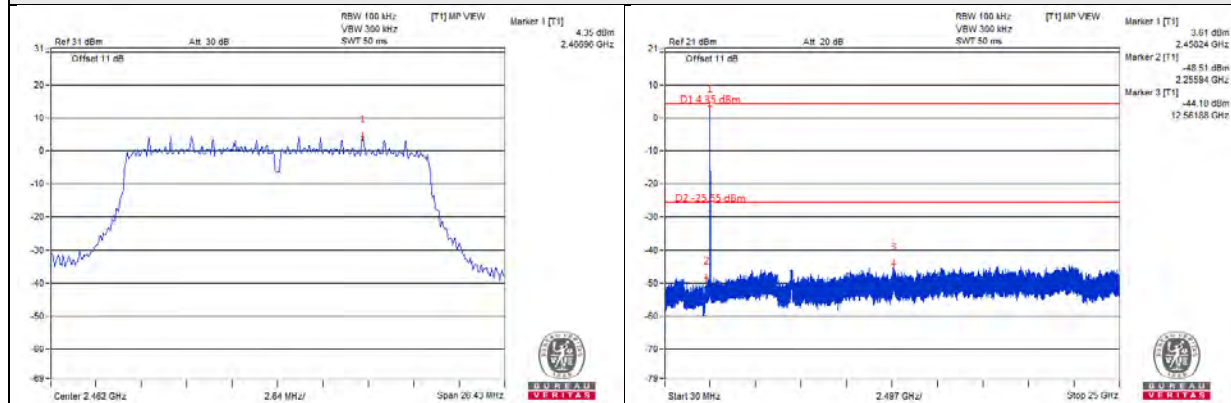
CH 1



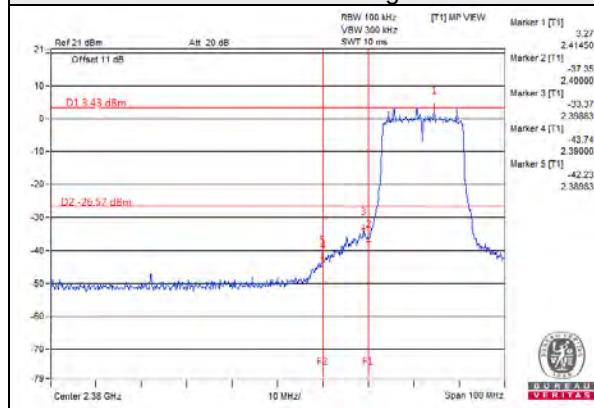
CH 6



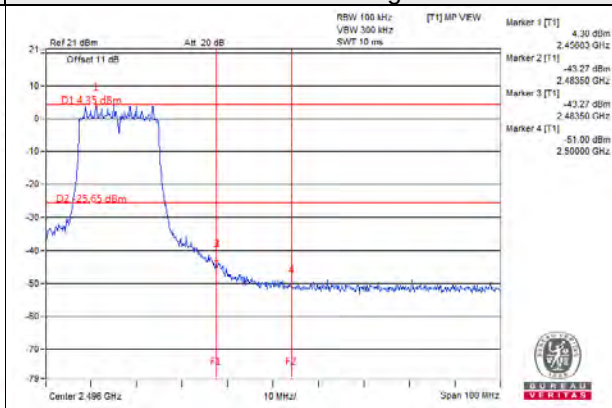
CH 11



CH 1 Band edge

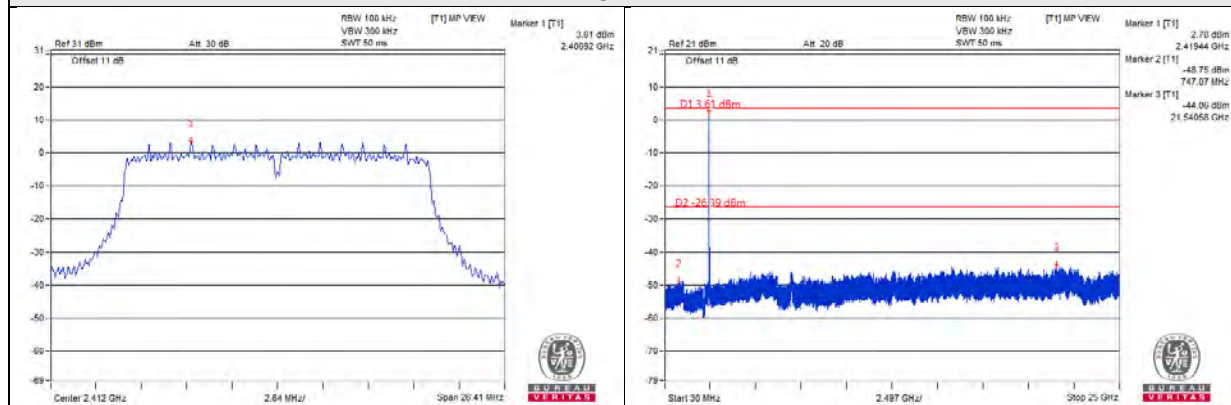


CH 11 Band edge

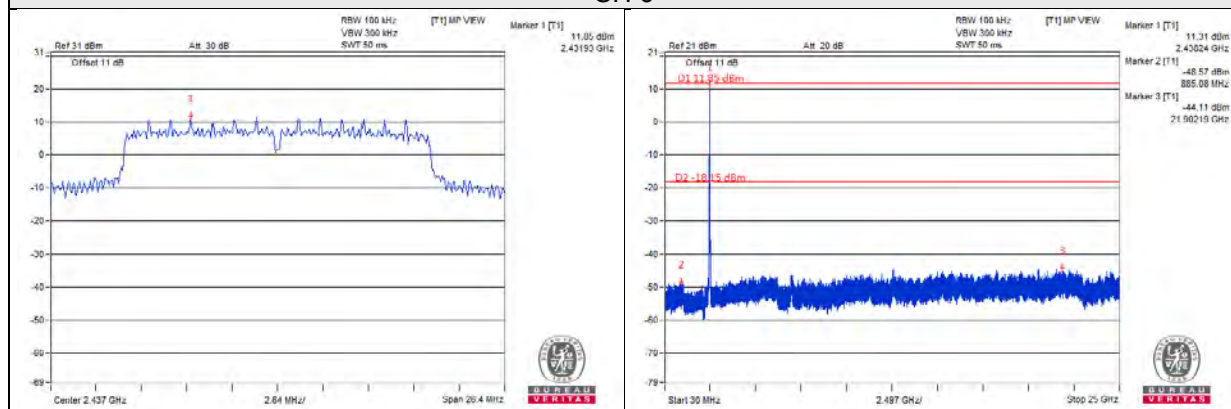


802.11n (HT20)_Chain 1

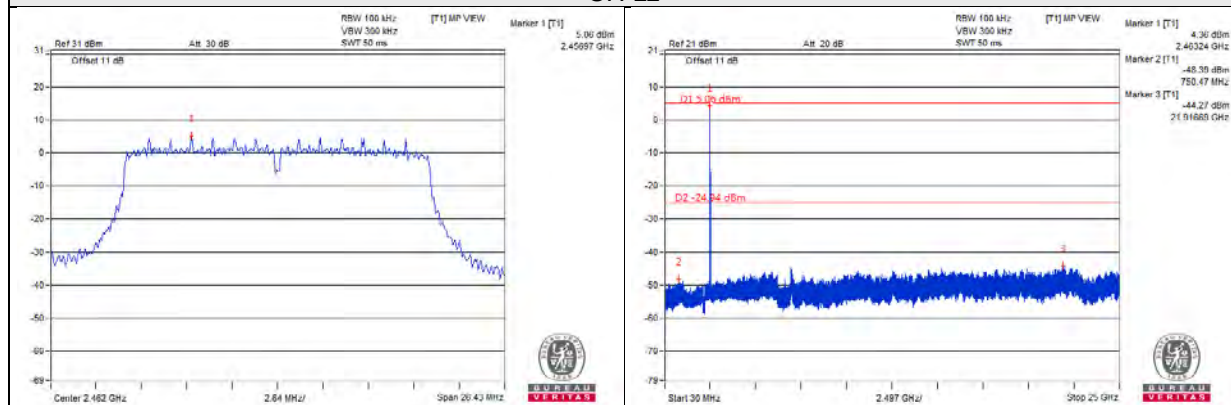
CH 1



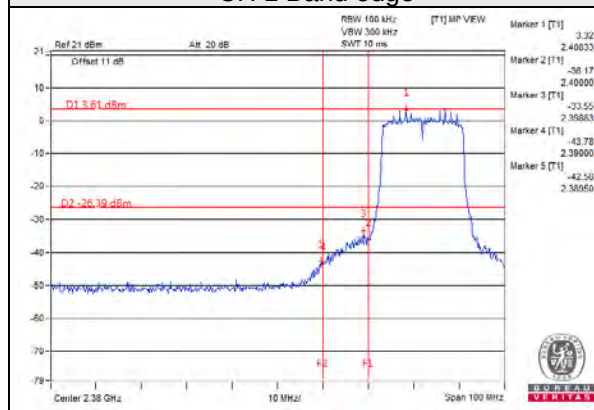
CH 6



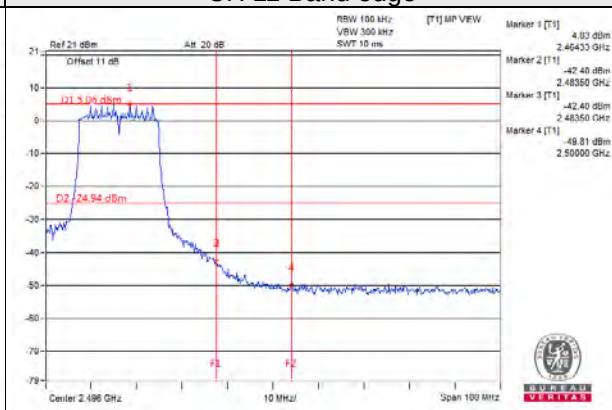
CH 11



CH 1 Band edge

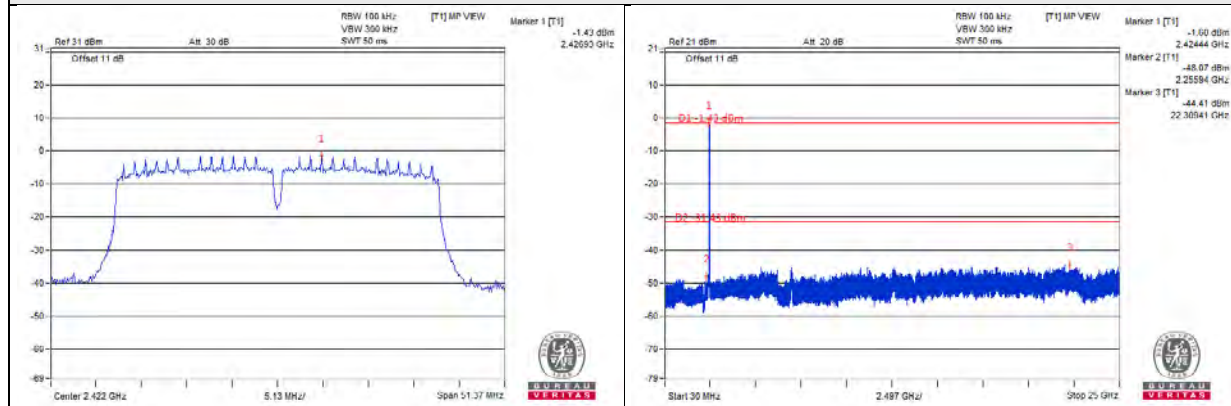


CH 11 Band edge

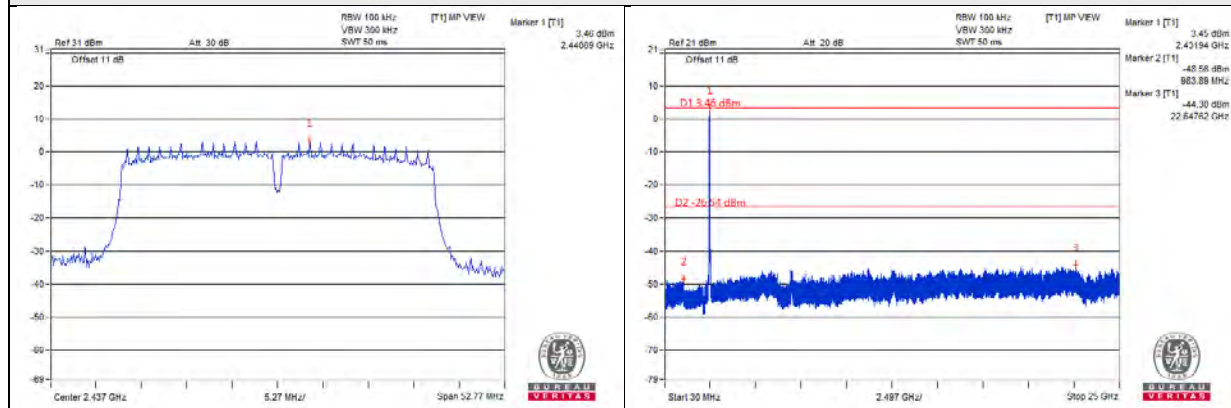


802.11n (HT40)_Chain 0

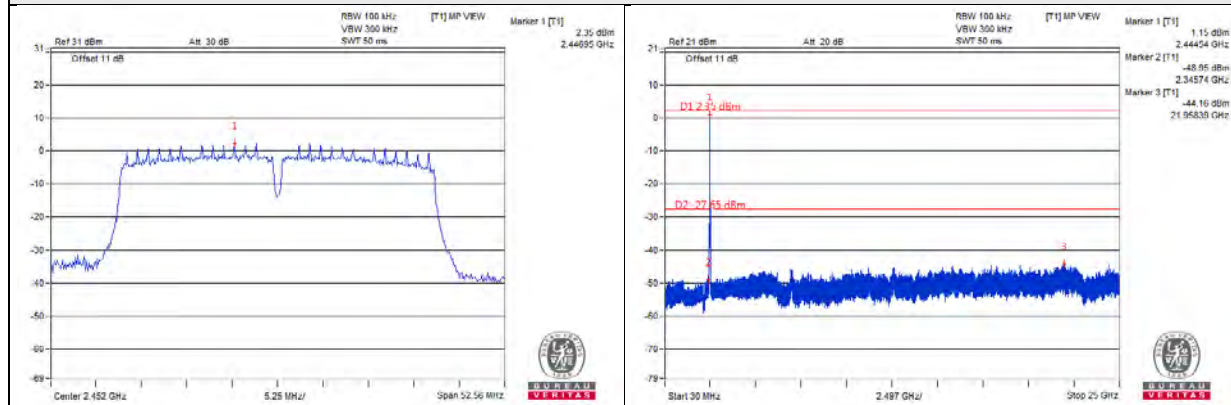
CH 3



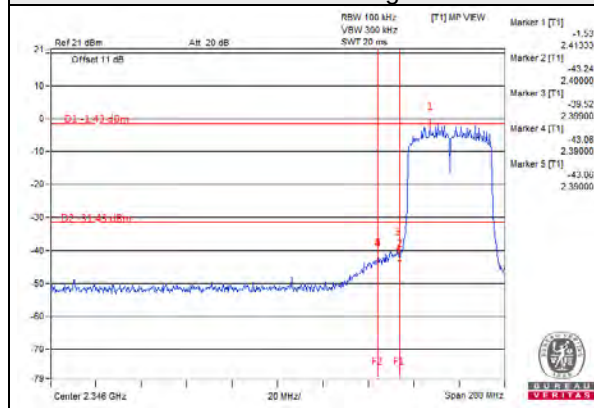
CH 6



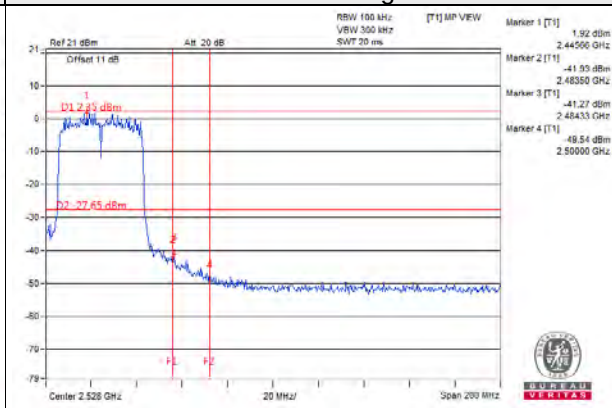
CH 9



CH 3 Band edge

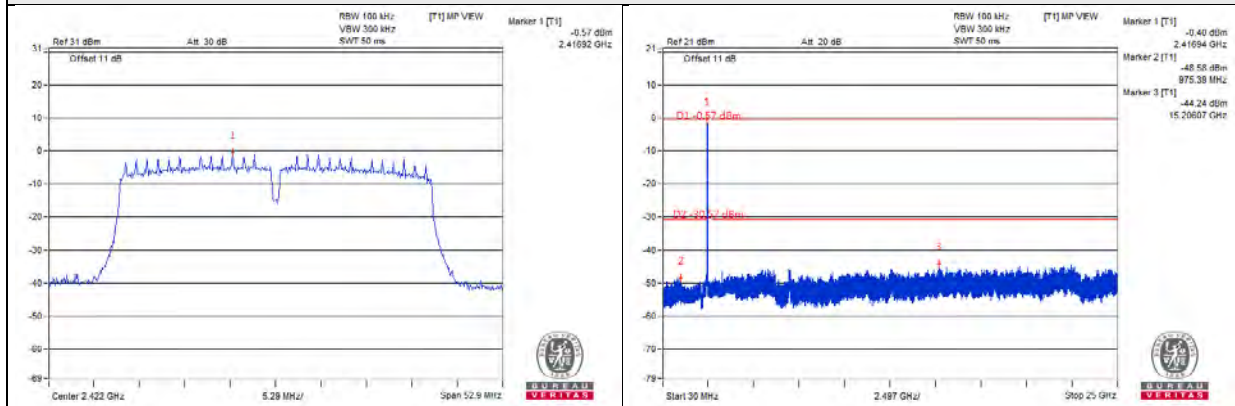


CH 9 Band edge

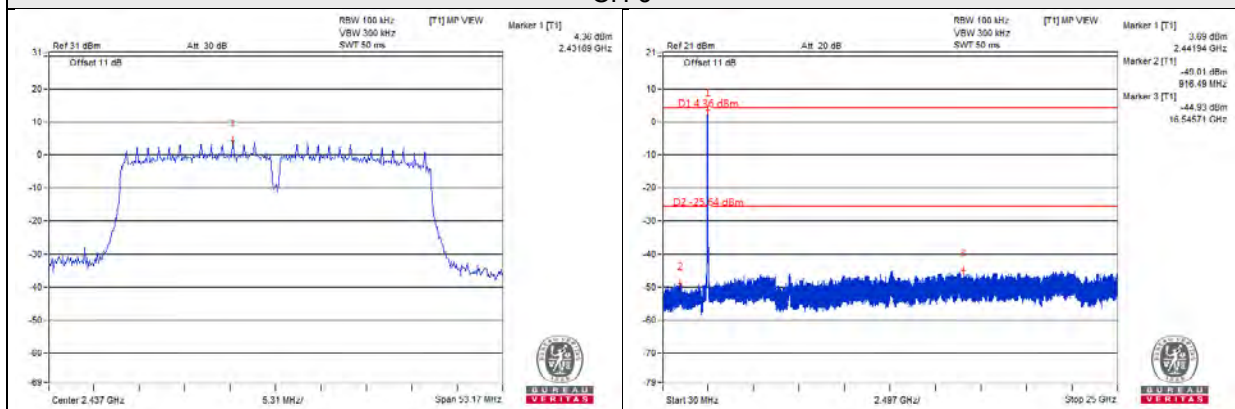


802.11n (HT40)_Chain 1

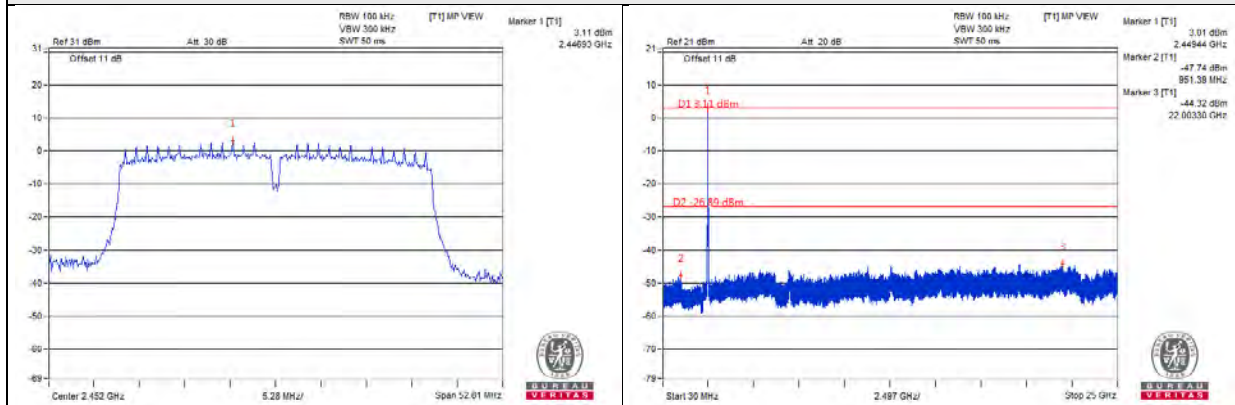
CH 3



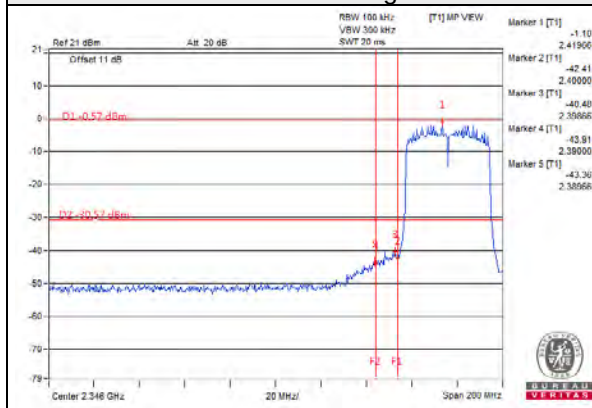
CH 6



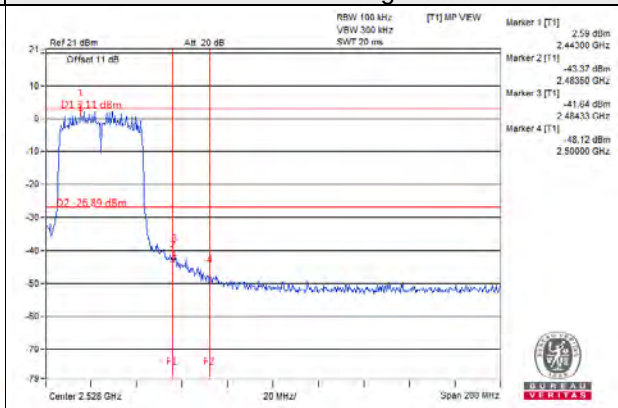
CH 9



CH 3 Band edge

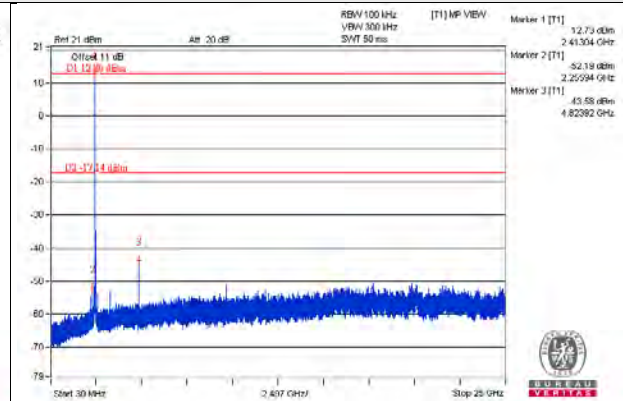
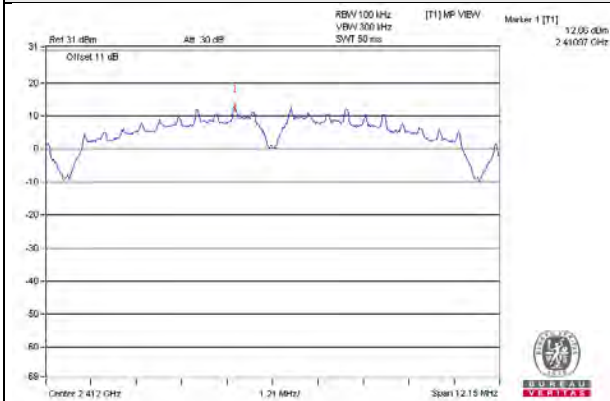


CH 9 Band edge

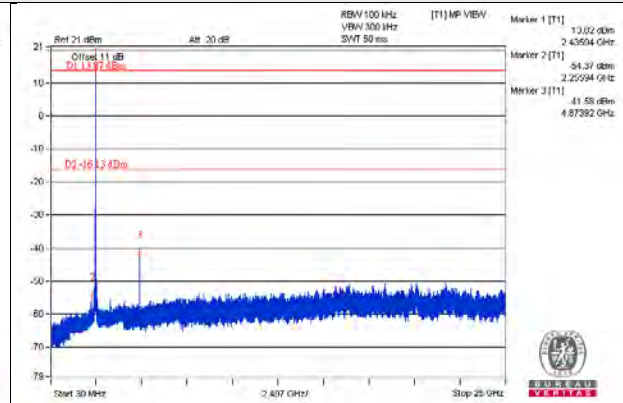
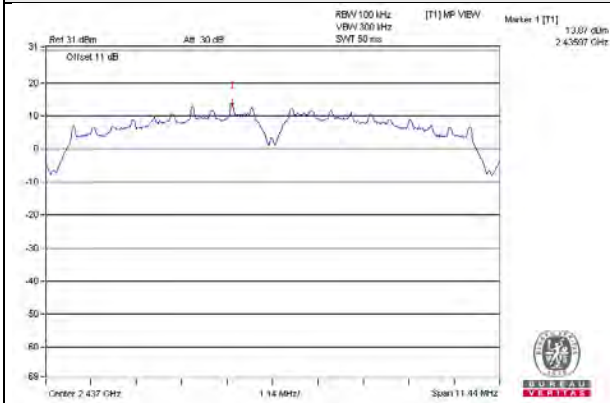


Test Mode D
802.11b_Chain 0

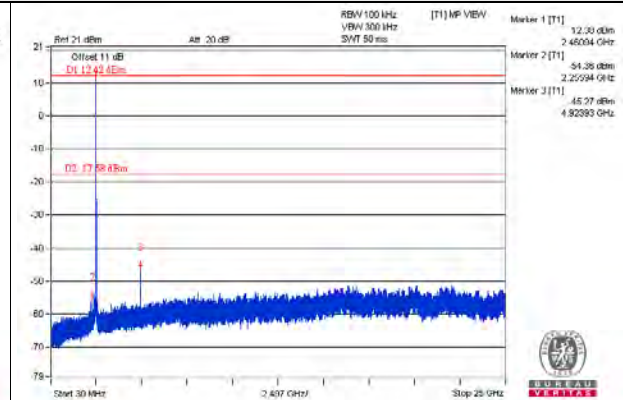
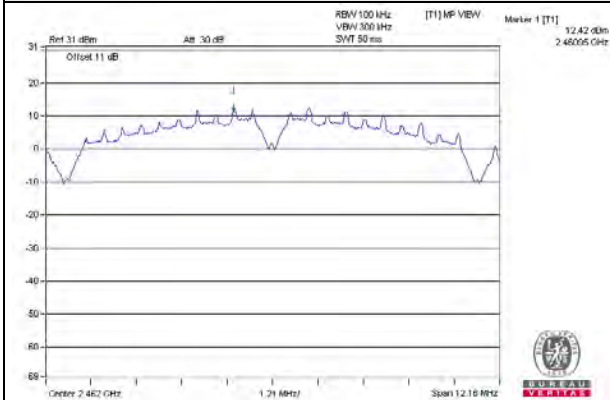
CH 1



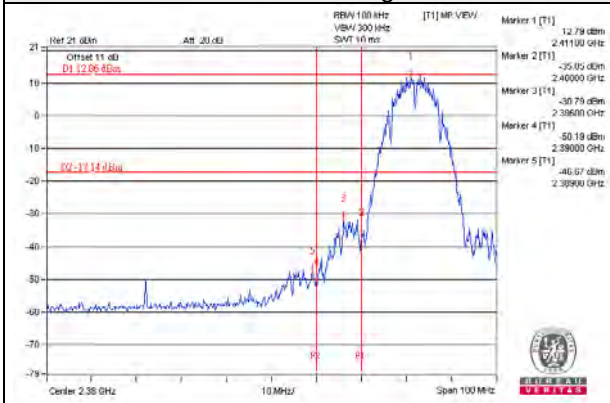
CH 6



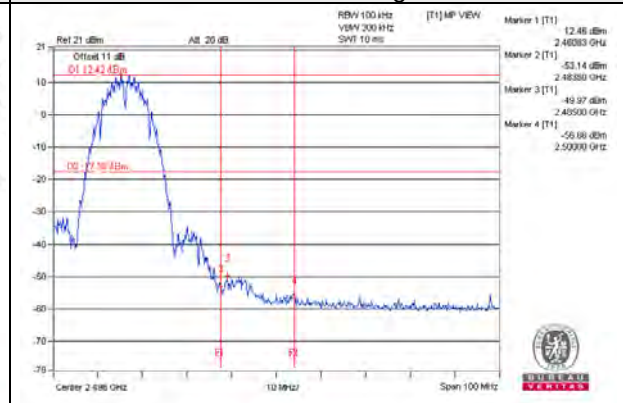
CH 11



CH 1 Band edge

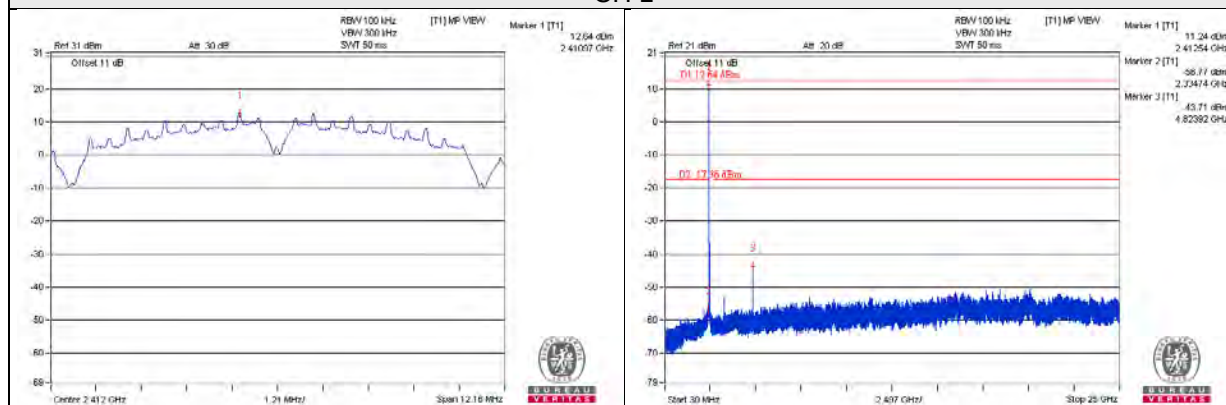


CH 11 Band edge

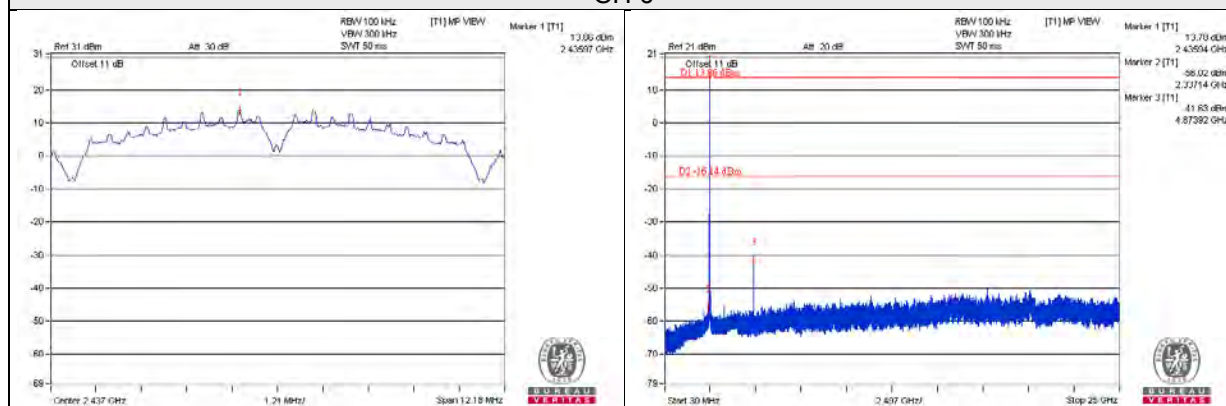


802.11b_Chain 1

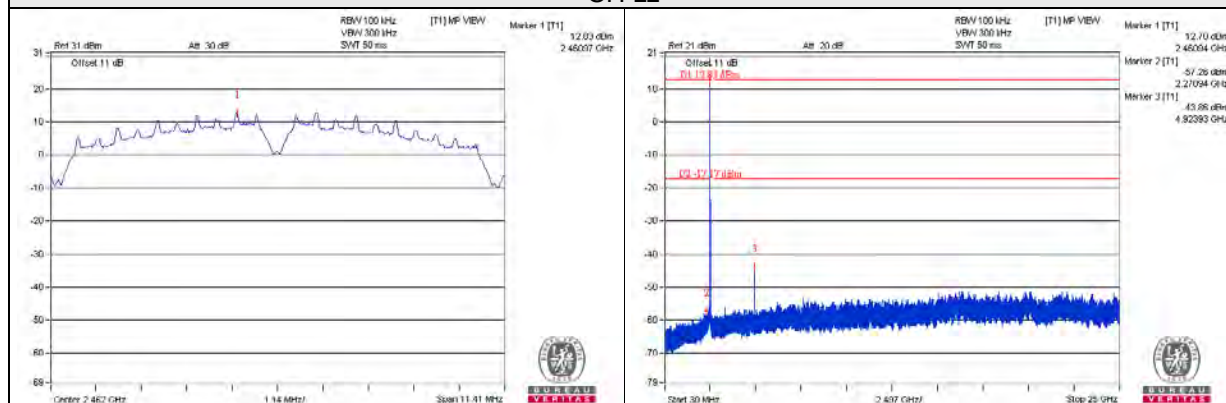
CH 1



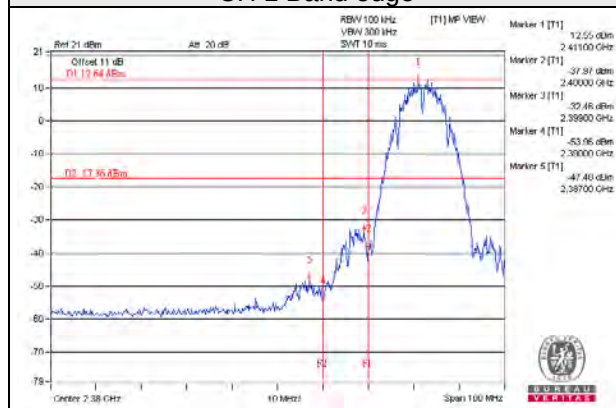
CH 6



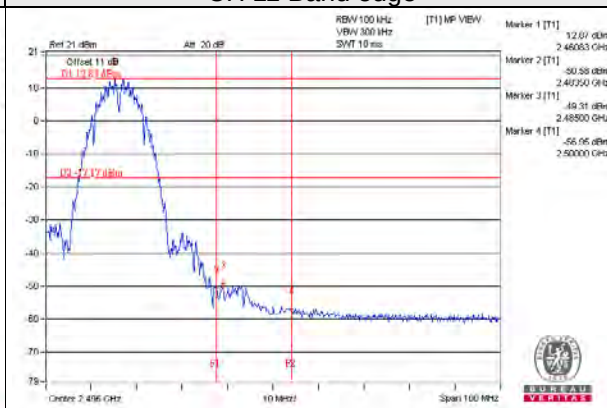
CH 11



CH 1 Band edge

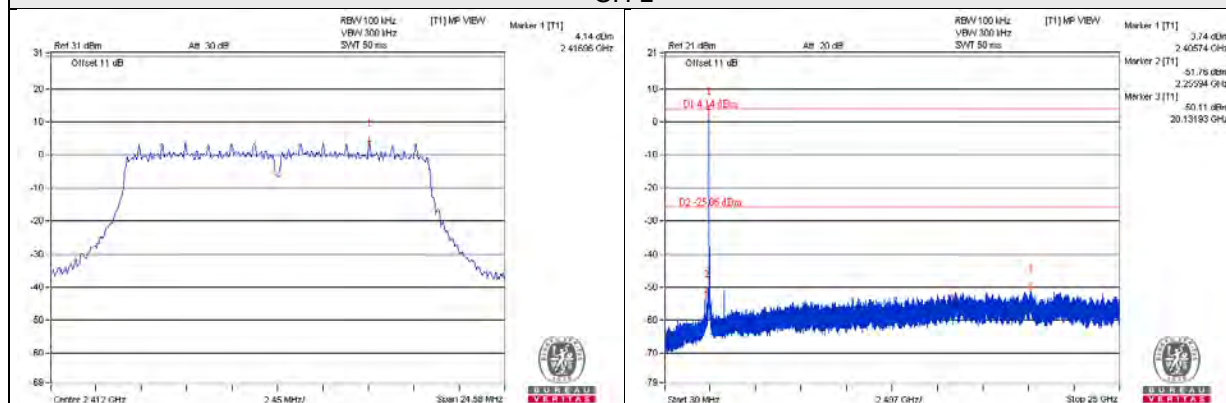


CH 11 Band edge

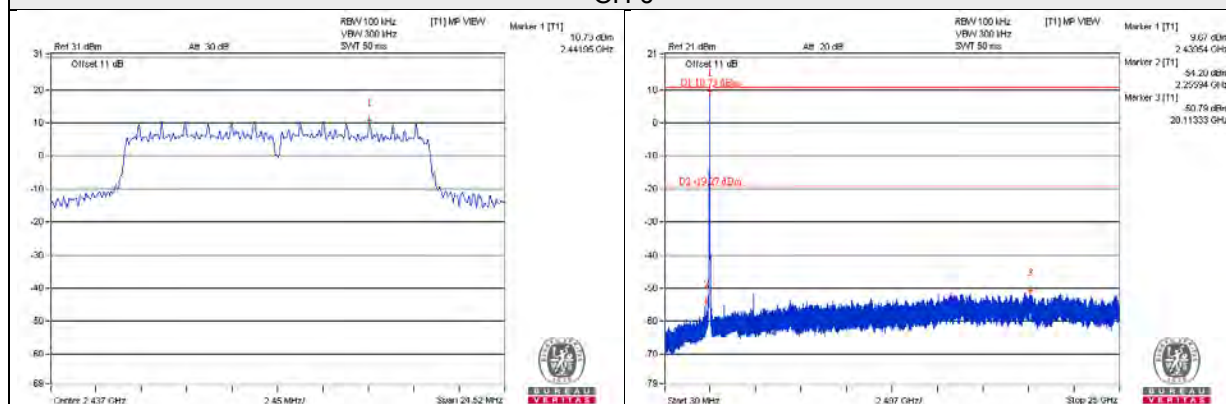


802.11g_Chain 0

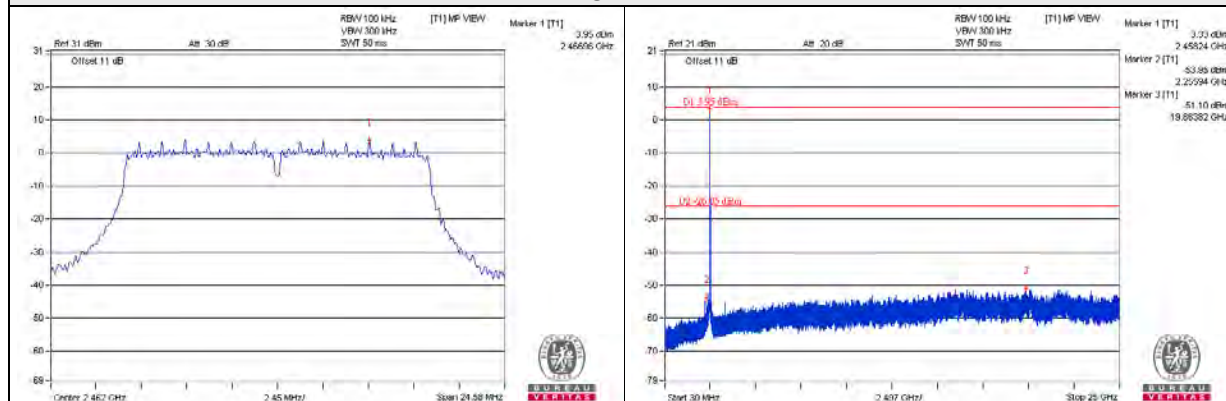
CH 1



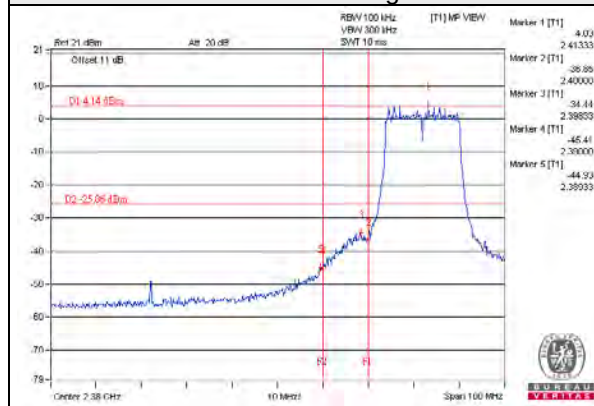
CH 6



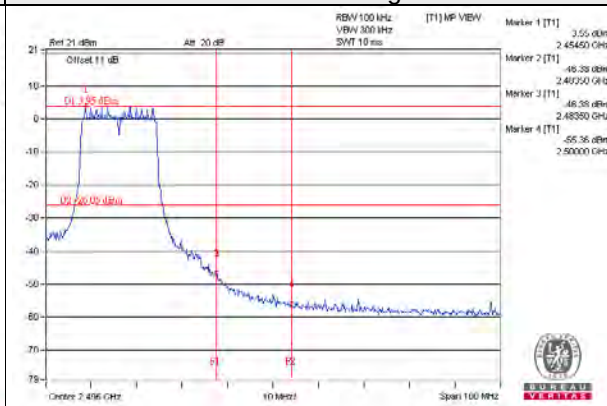
CH 11



CH 1 Band edge

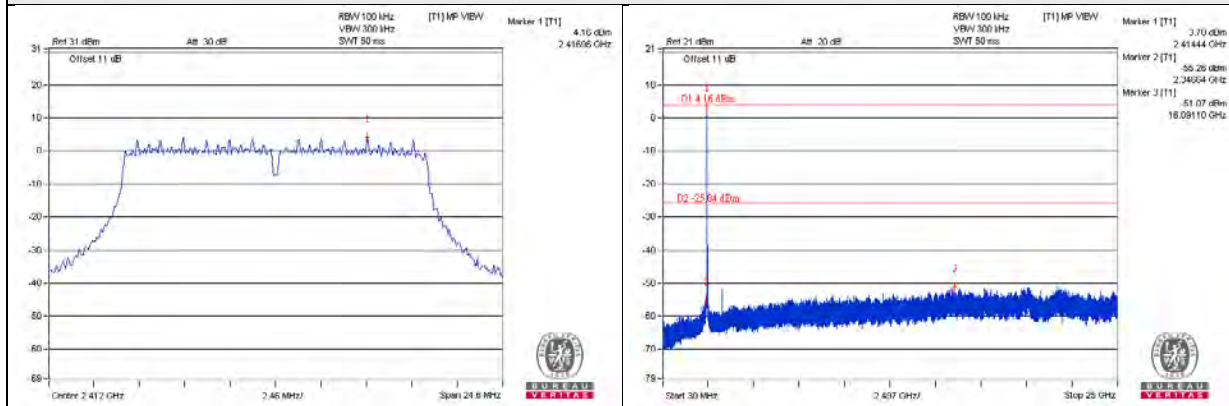


CH 11 Band edge

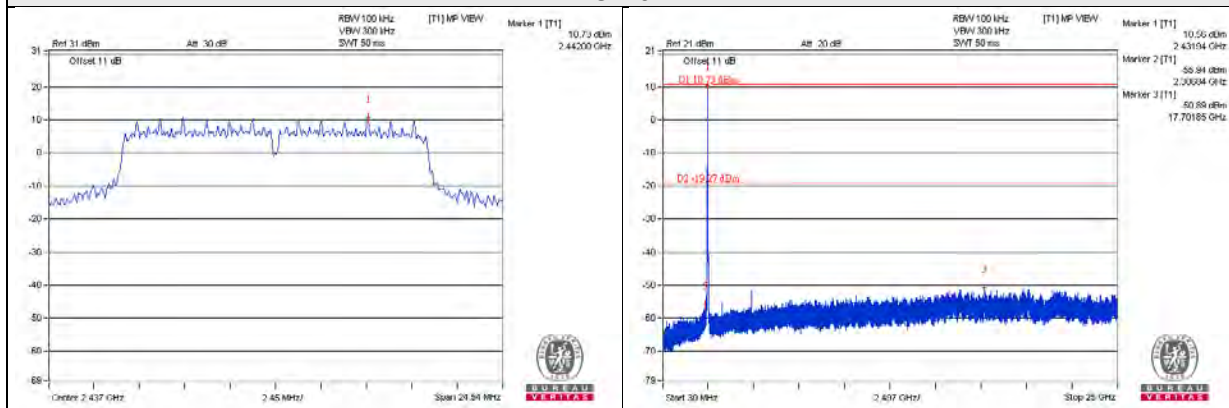


802.11g_Chain 1

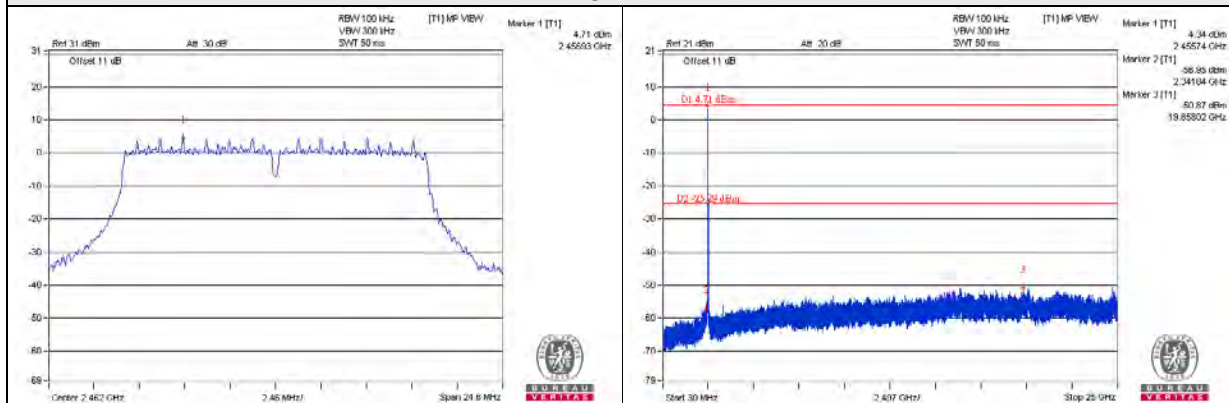
CH 1



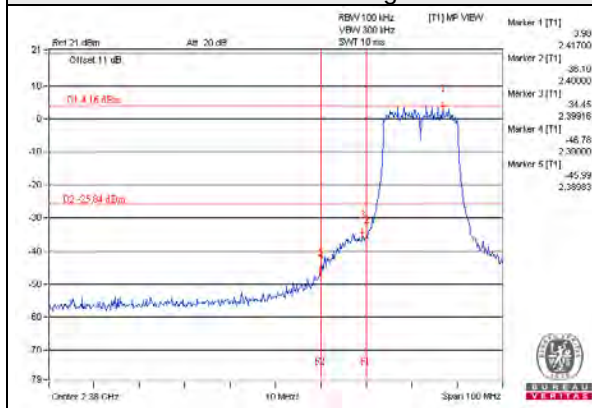
CH 6



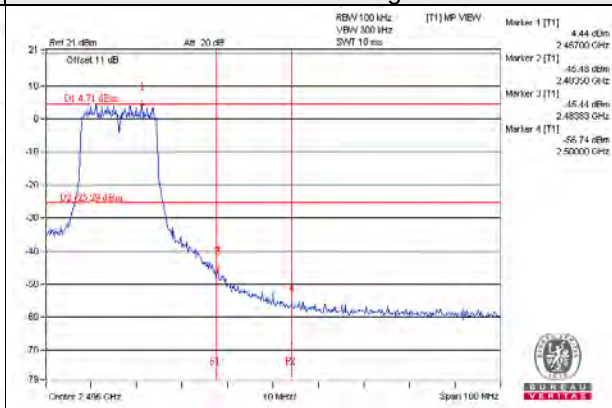
CH 11



CH 1 Band edge

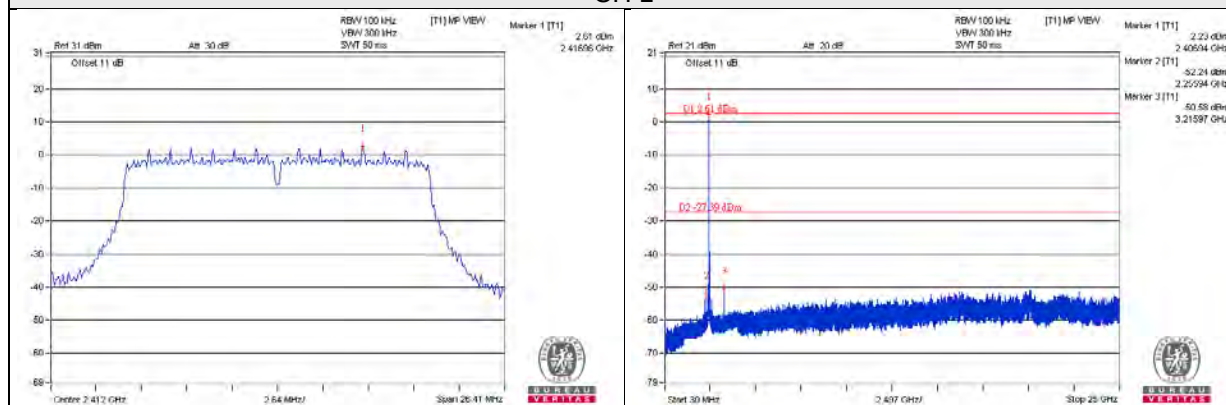


CH 11 Band edge

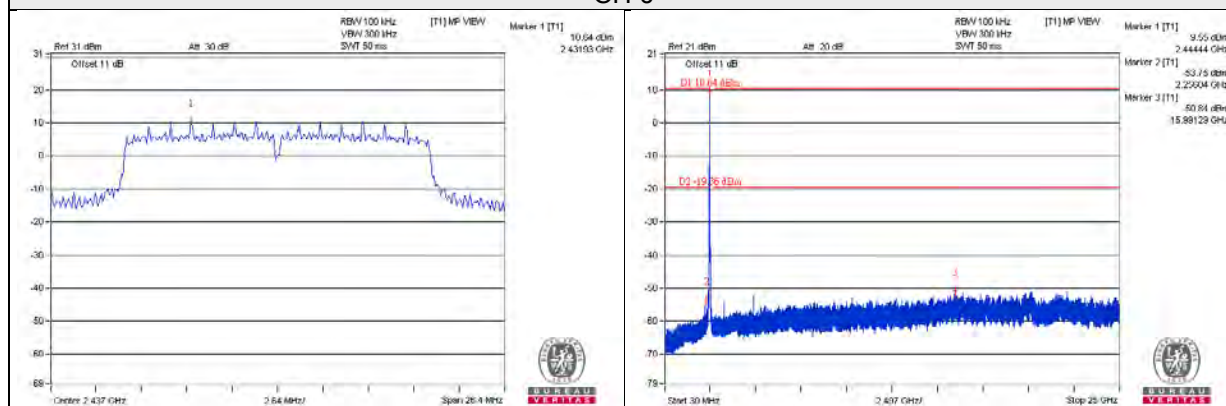


802.11n (HT20)_Chain 0

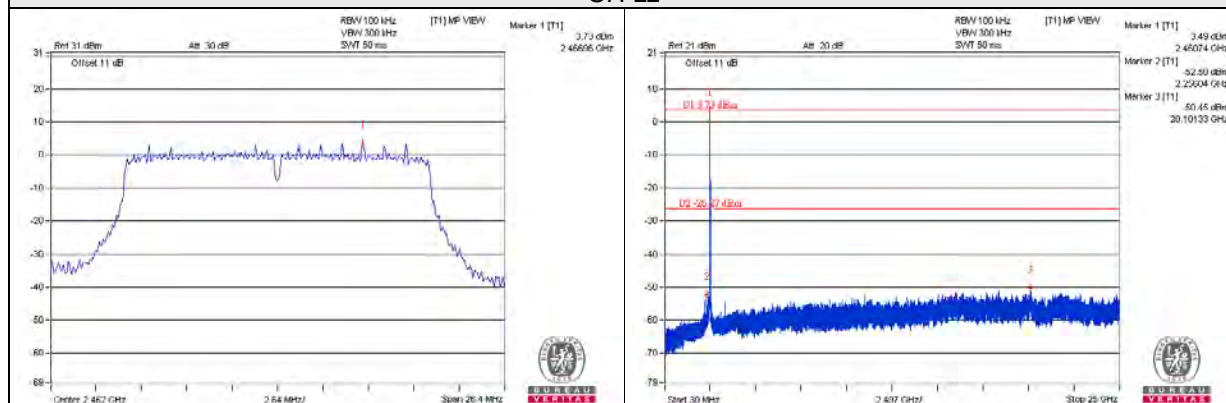
CH 1



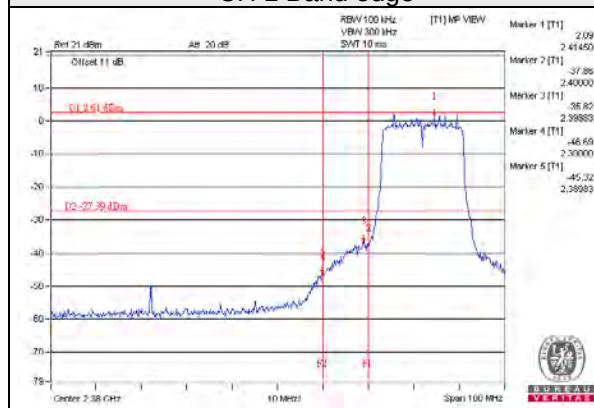
CH 6



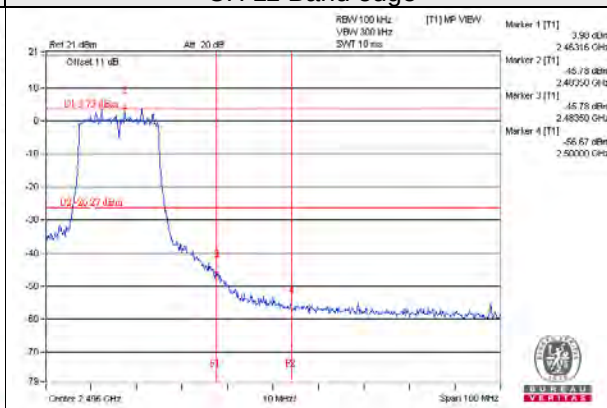
CH 11



CH 1 Band edge

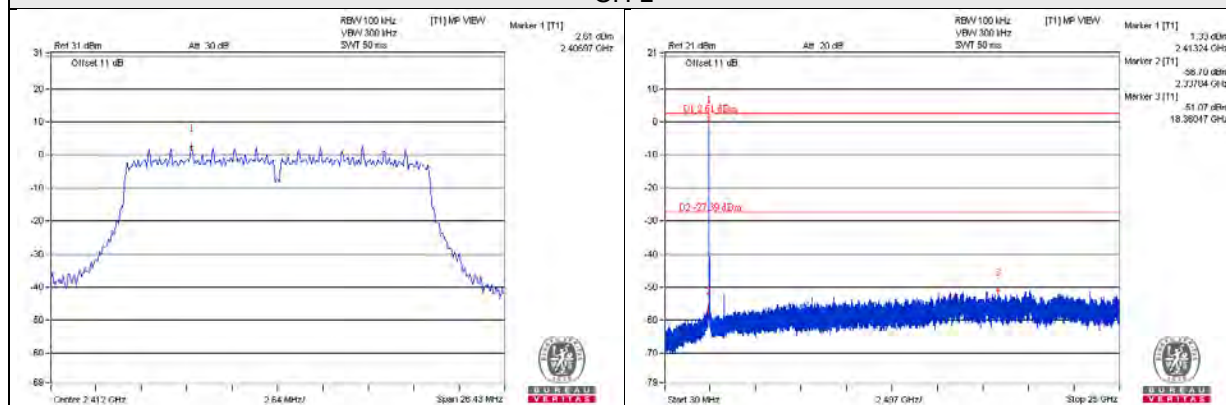


CH 11 Band edge

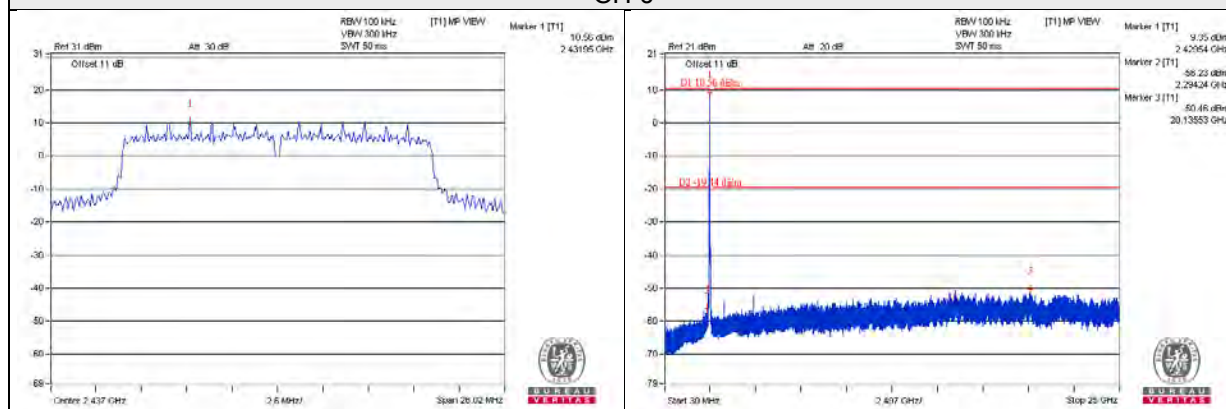


802.11n (HT20)_Chain 1

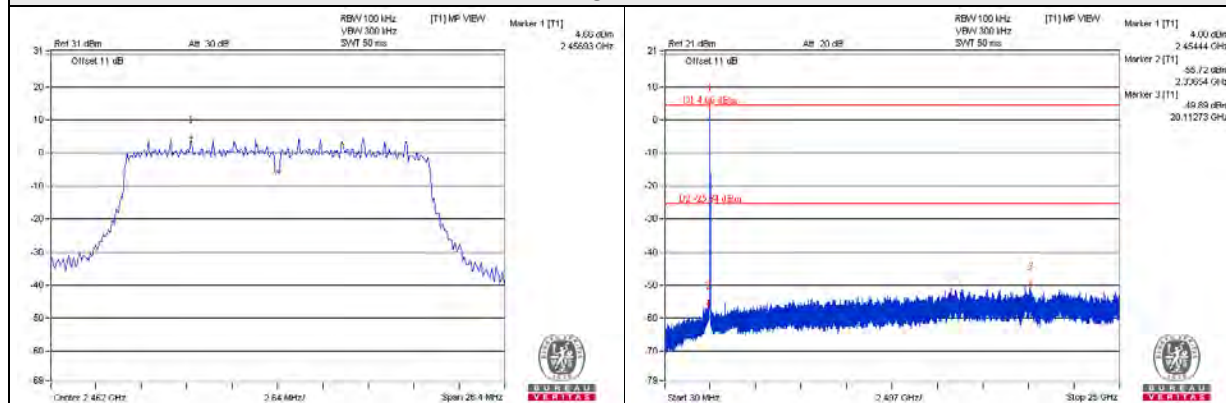
CH 1



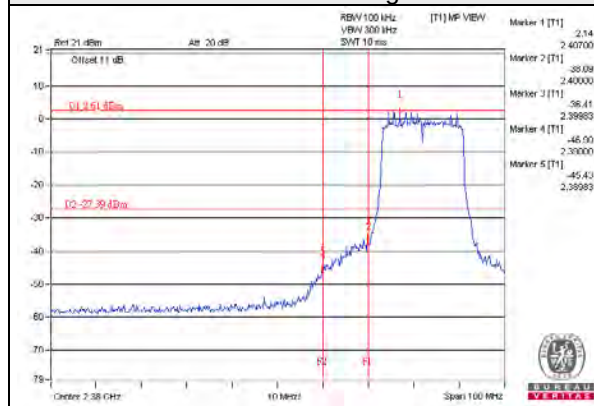
CH 6



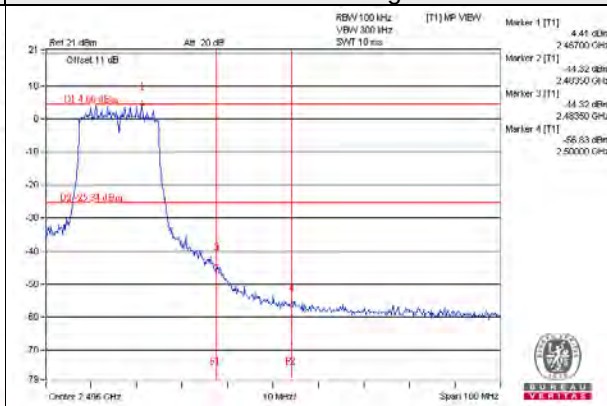
CH 11



CH 1 Band edge

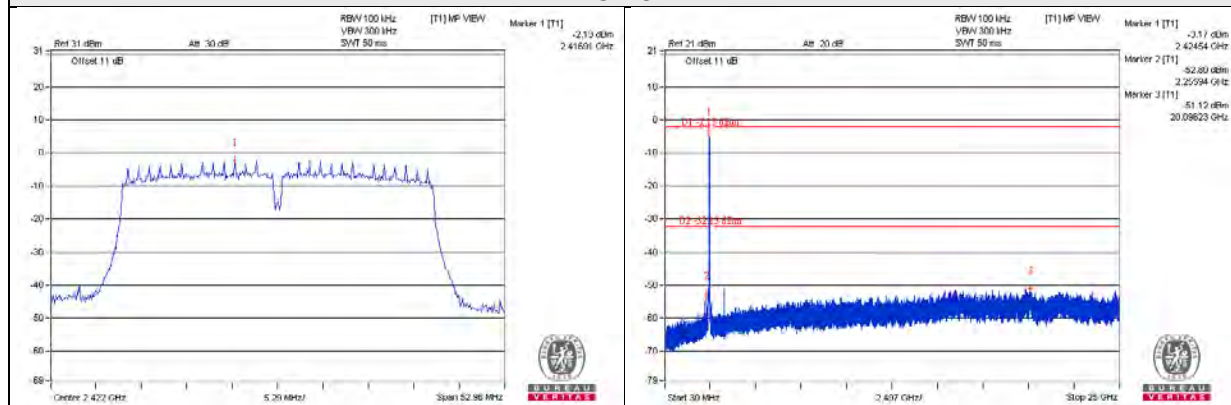


CH 11 Band edge

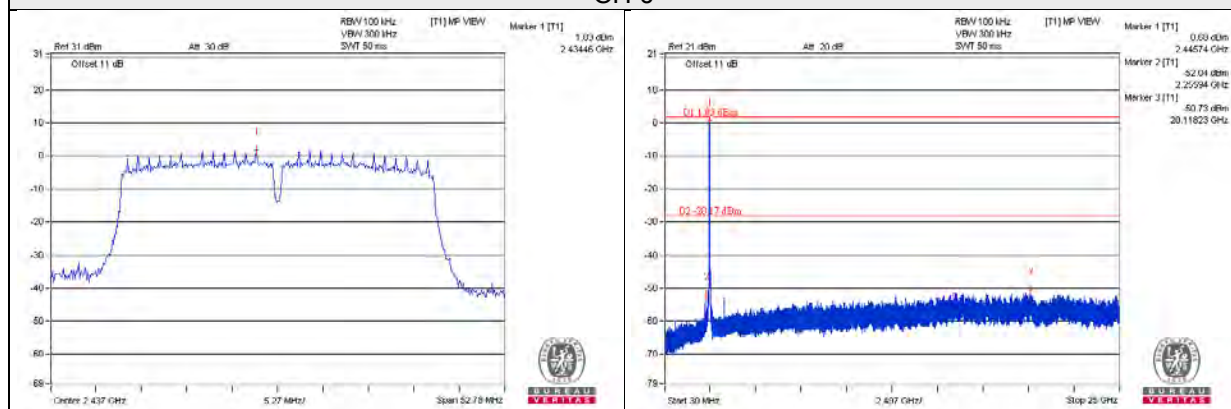


802.11n (HT40)_Chain 0

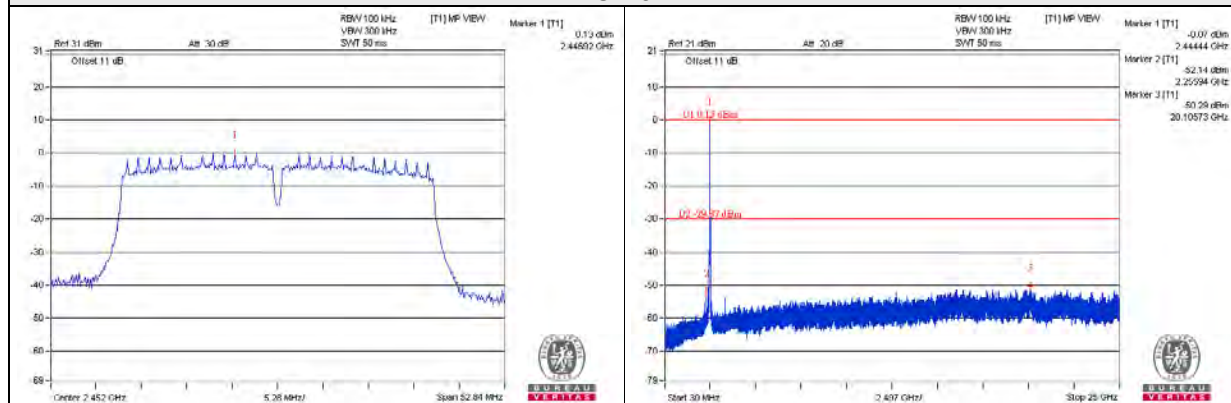
CH 3



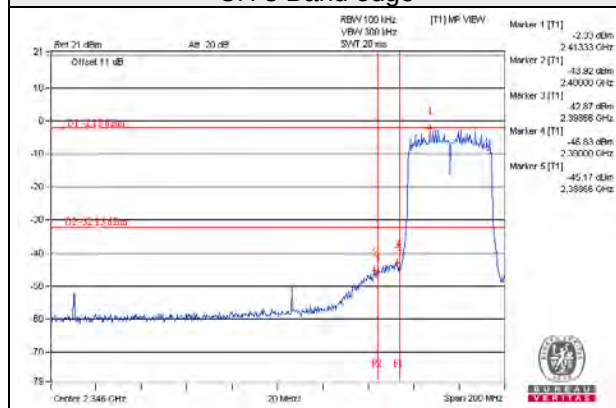
CH 6



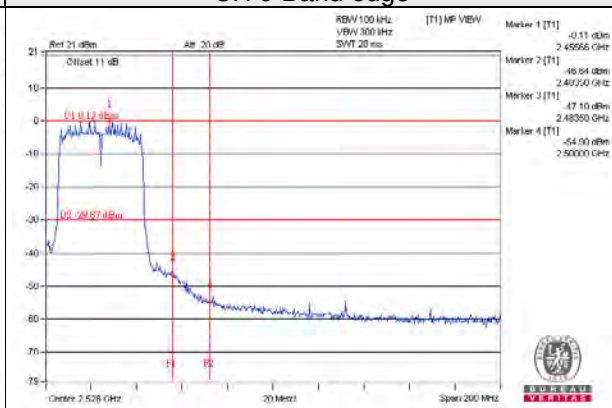
CH 9



CH 3 Band edge

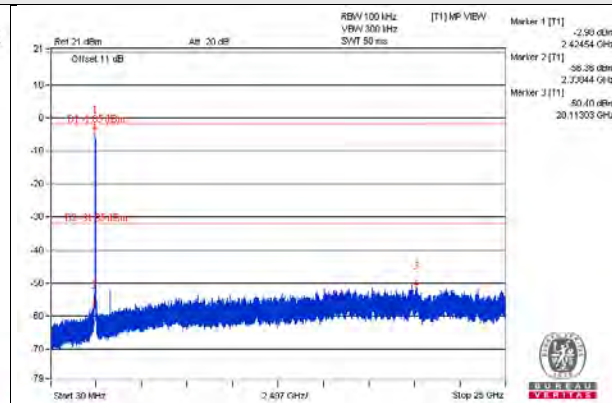
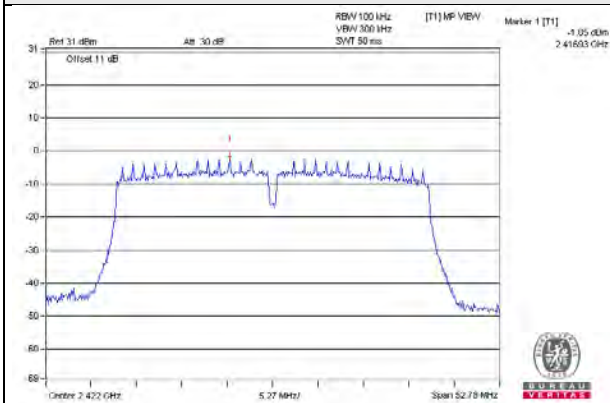


CH 9 Band edge

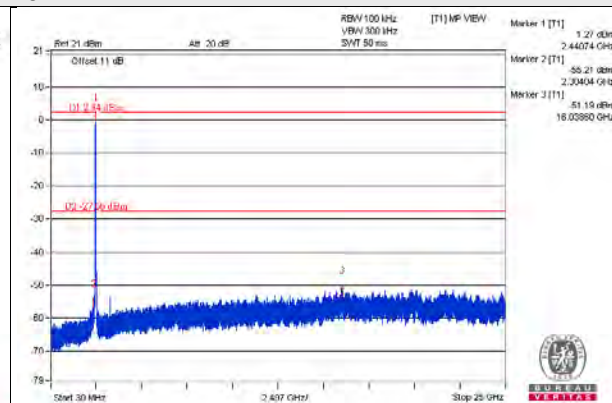
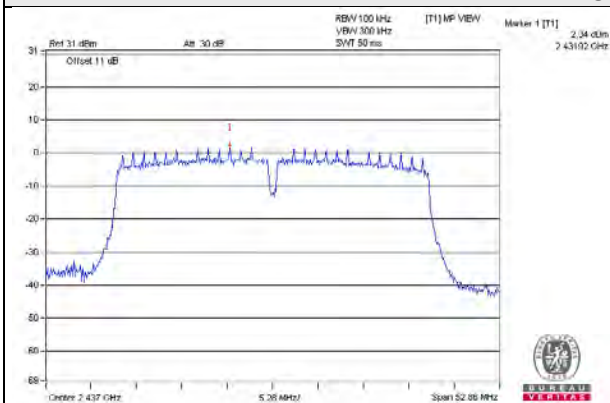


802.11n (HT40)_Chain 1

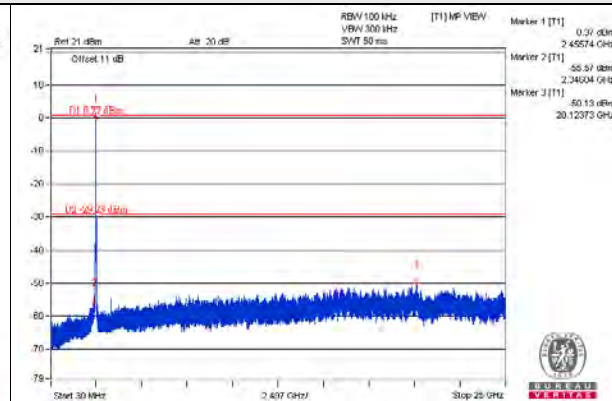
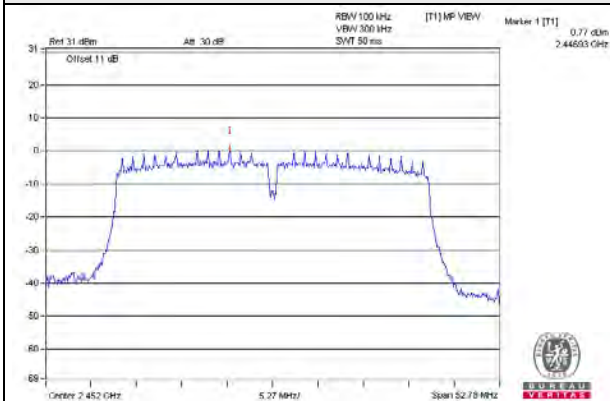
CH 3



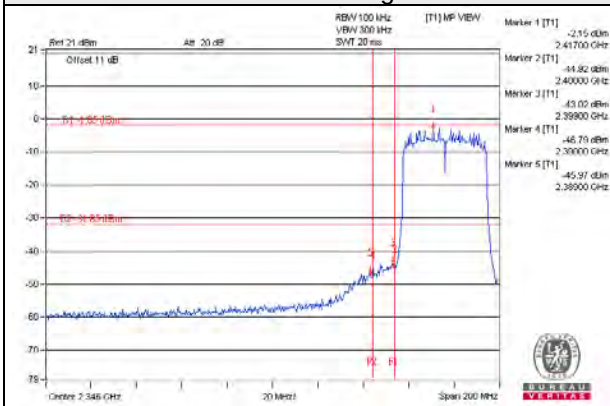
CH 6



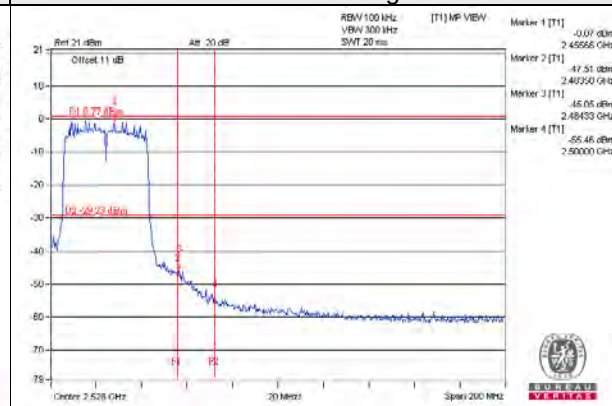
CH 9



CH 3 Band edge

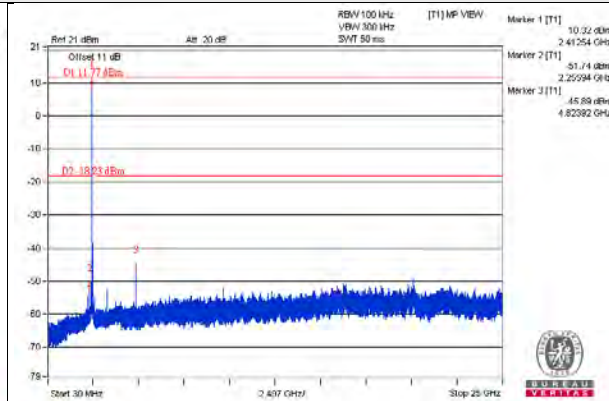
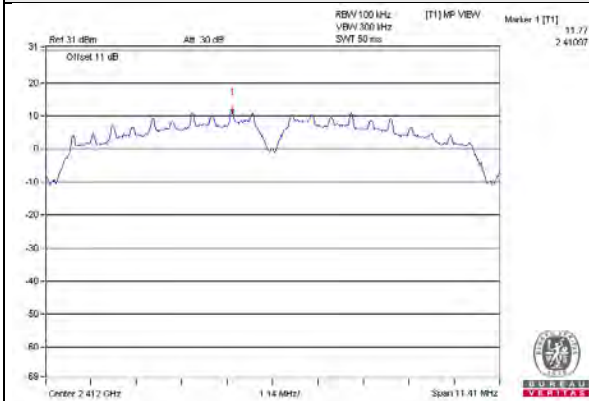


CH 9 Band edge

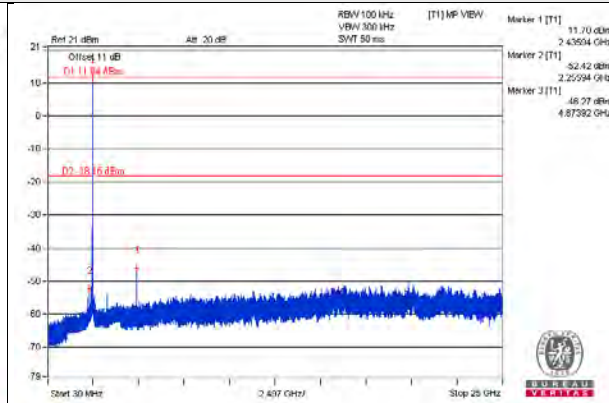
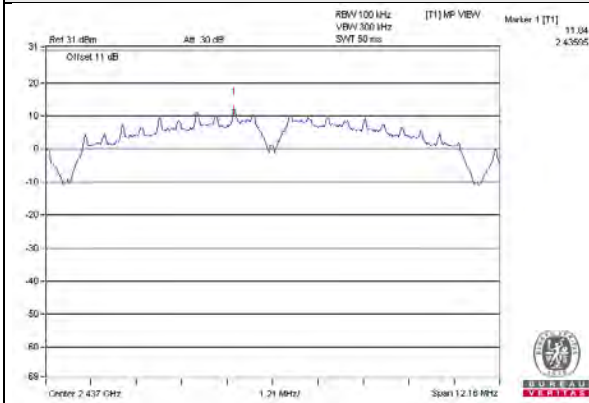


Test Mode E
802.11b_Chain 0

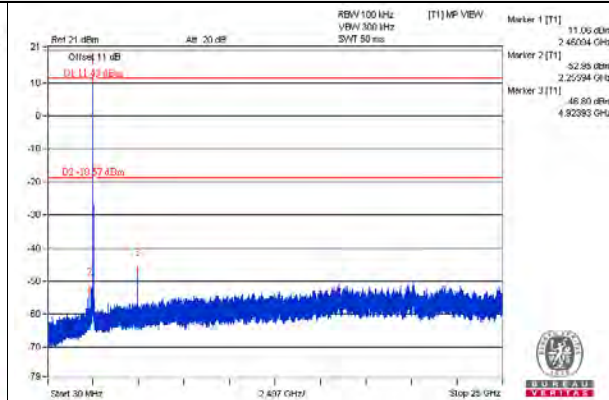
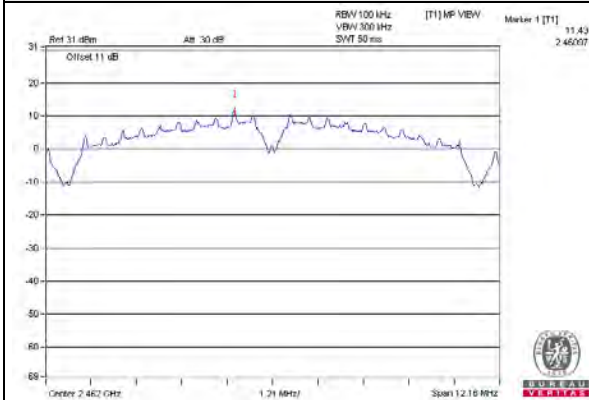
CH 1



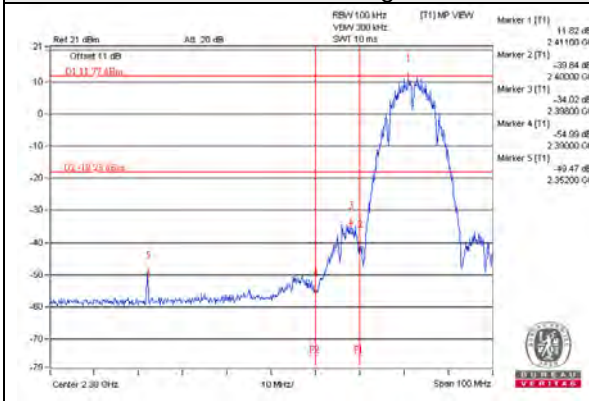
CH 6



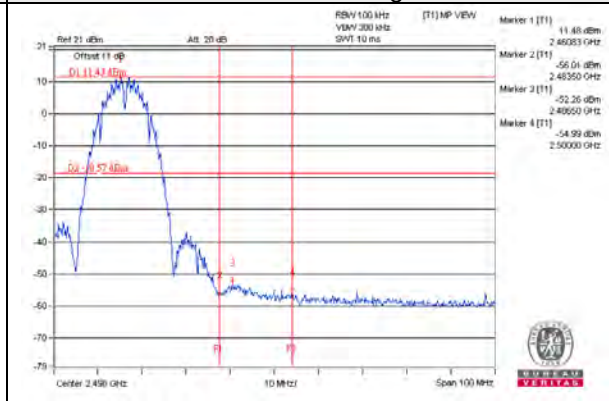
CH 11



CH 1 Band edge

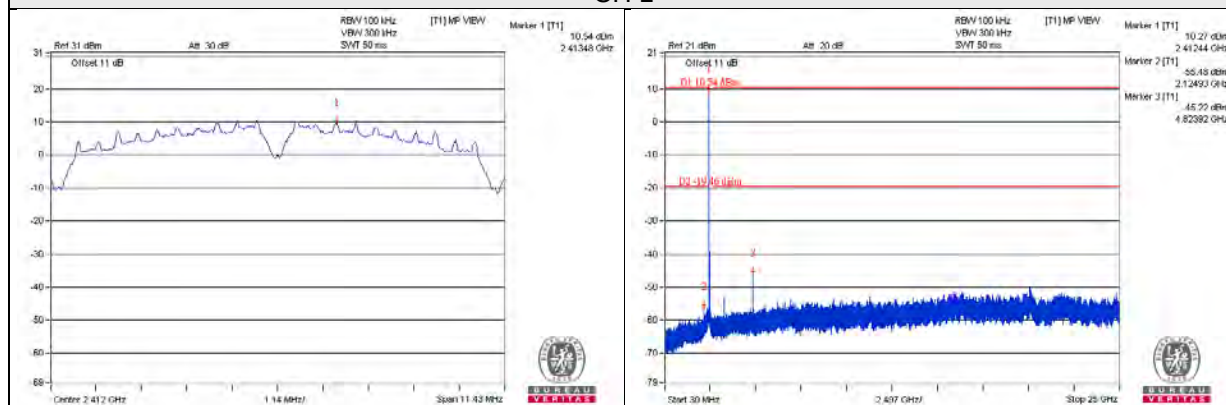


CH 11 Band edge

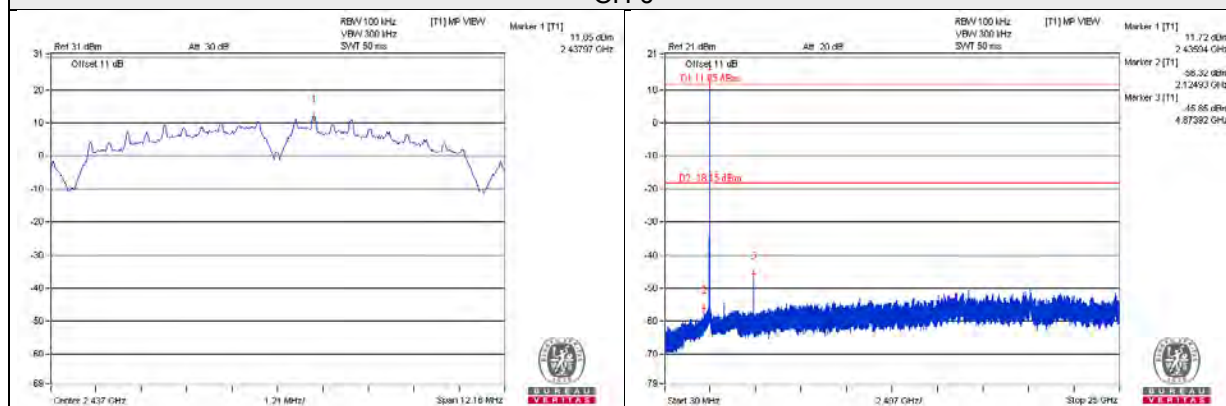


802.11b_Chain 1

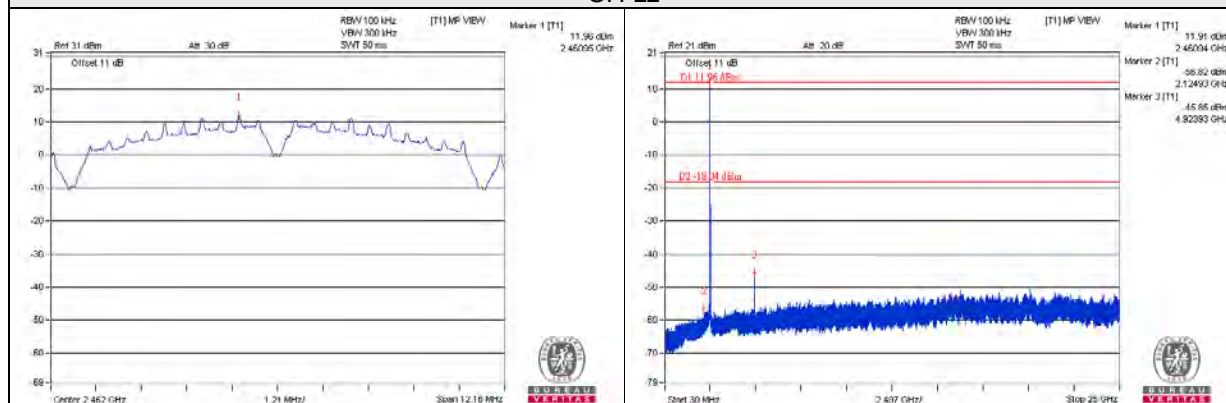
CH 1



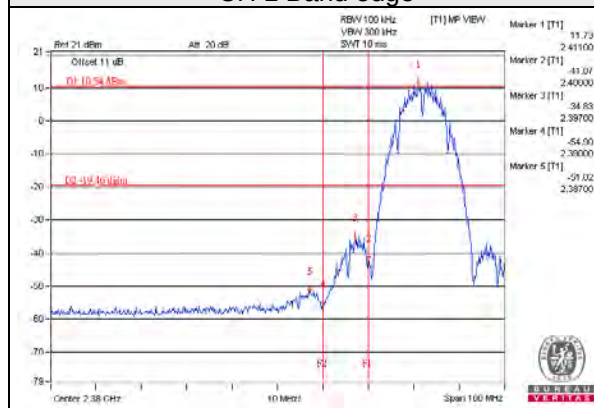
CH 6



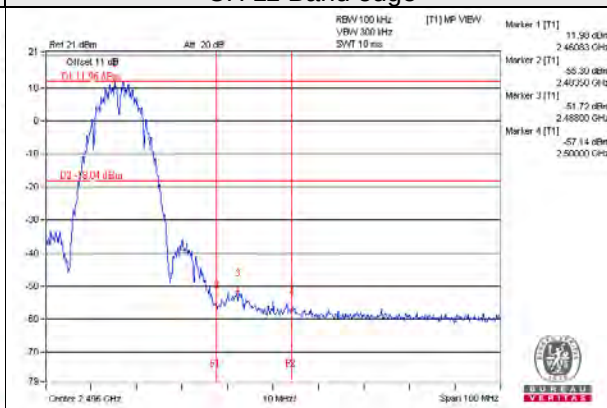
CH 11



CH 1 Band edge

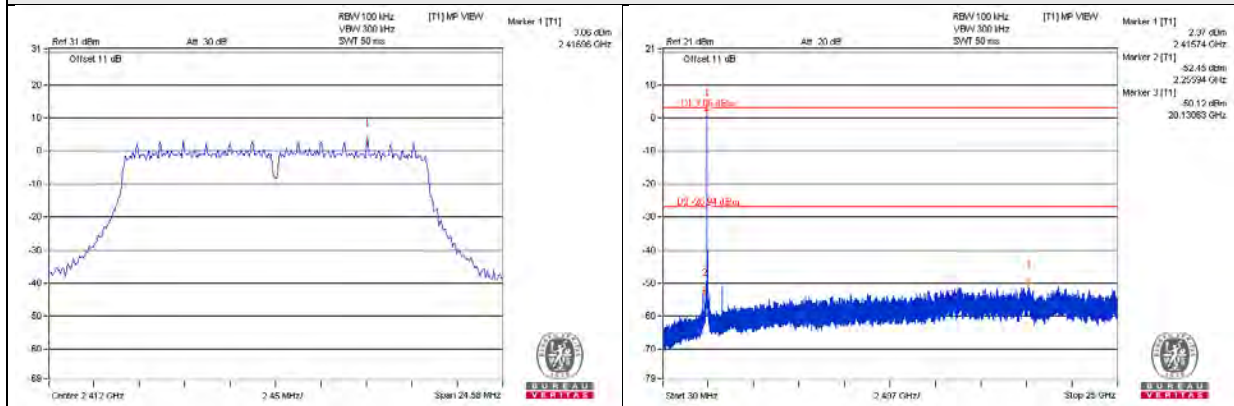


CH 11 Band edge

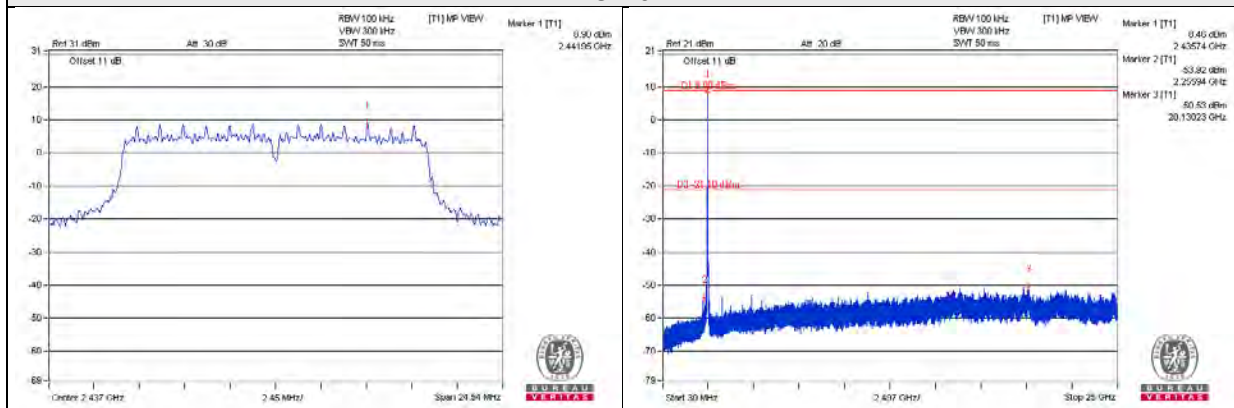


802.11g_Chain 0

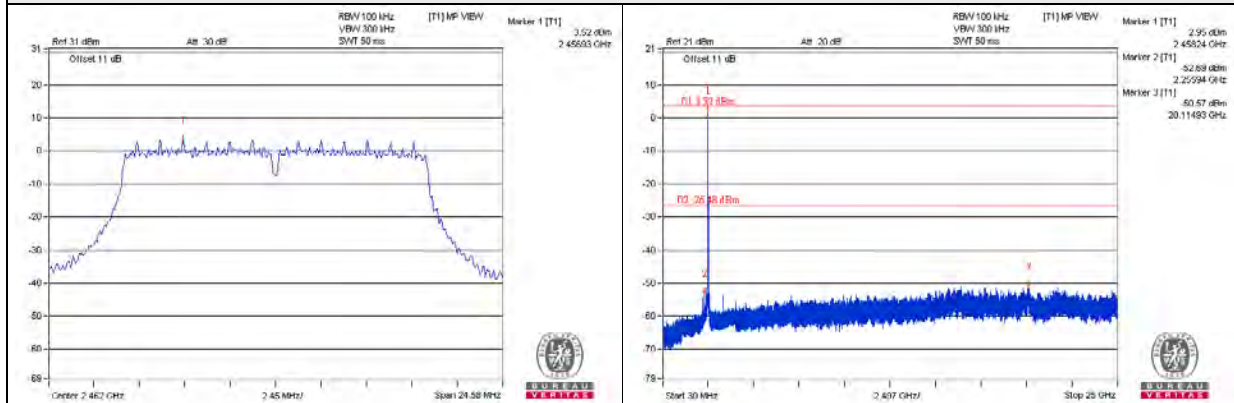
CH 1



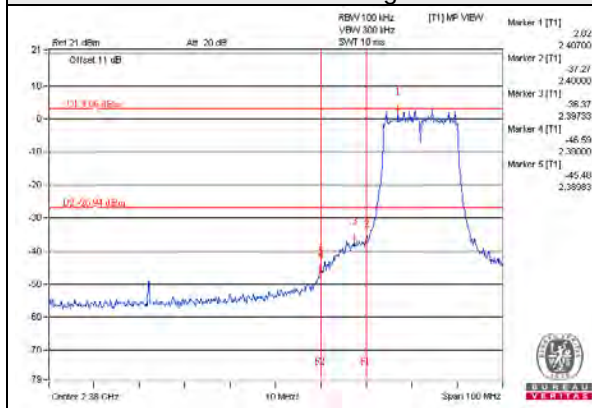
CH 6



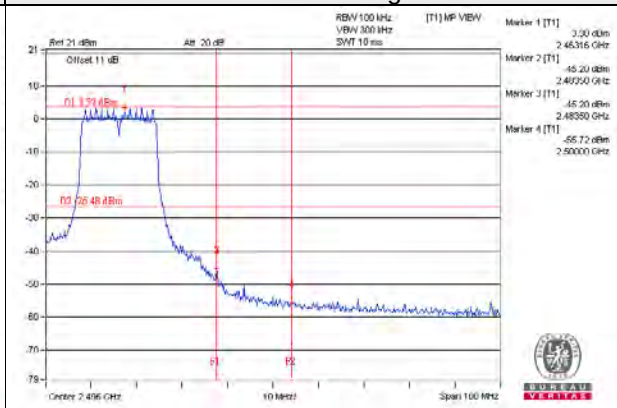
CH 11



CH 1 Band edge

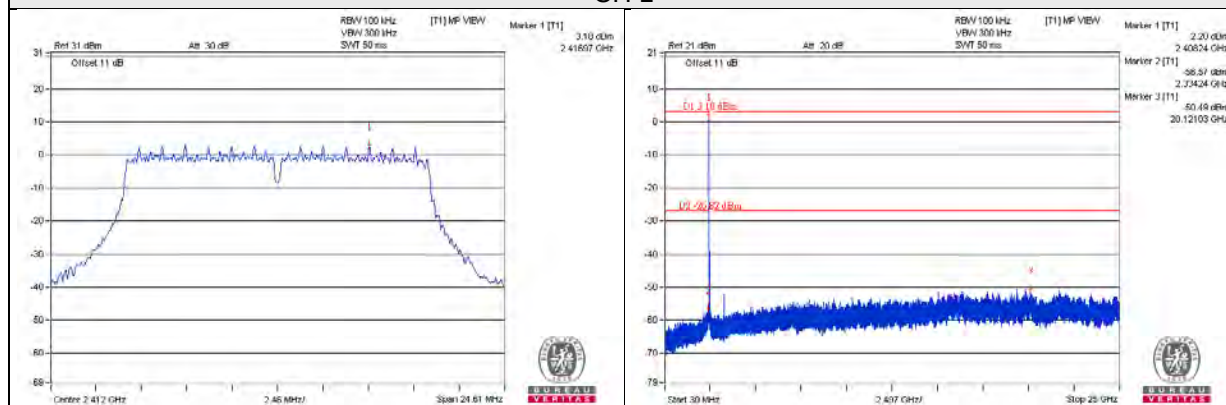


CH 11 Band edge

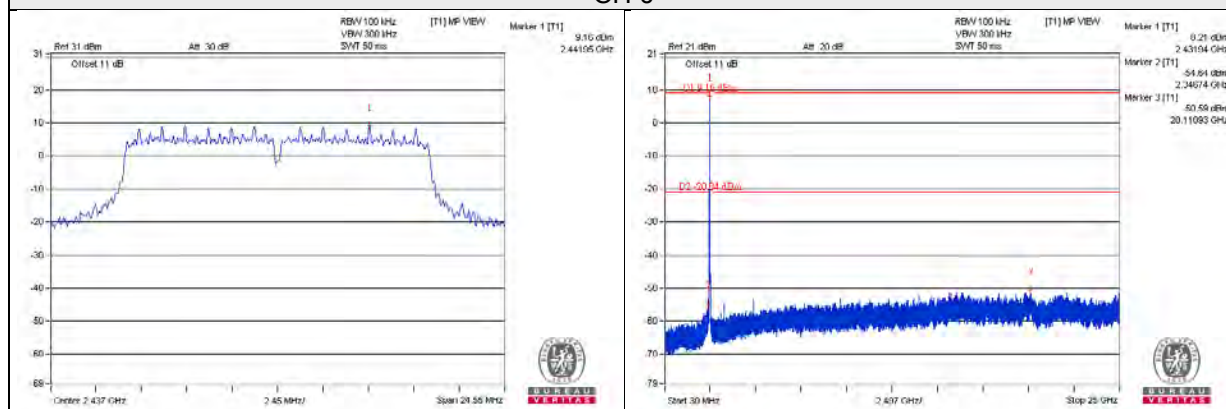


802.11g_Chain 1

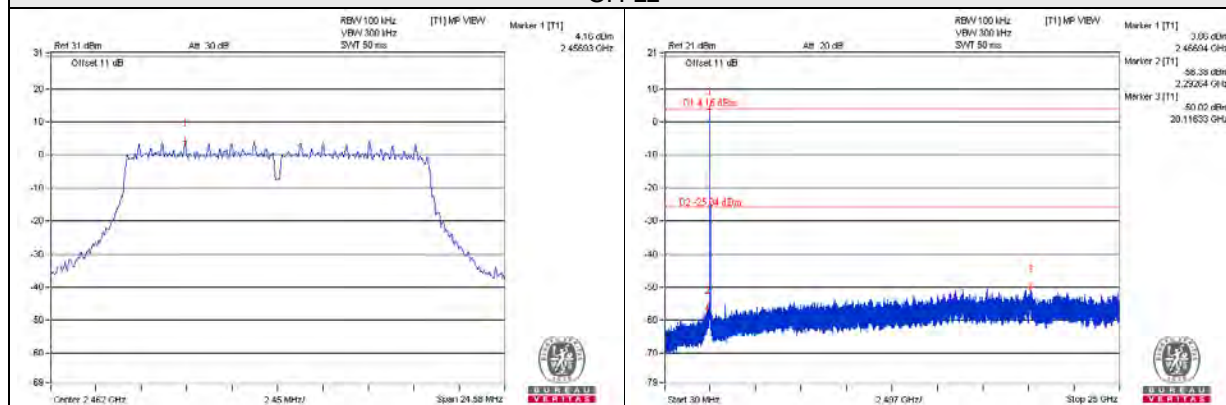
CH 1



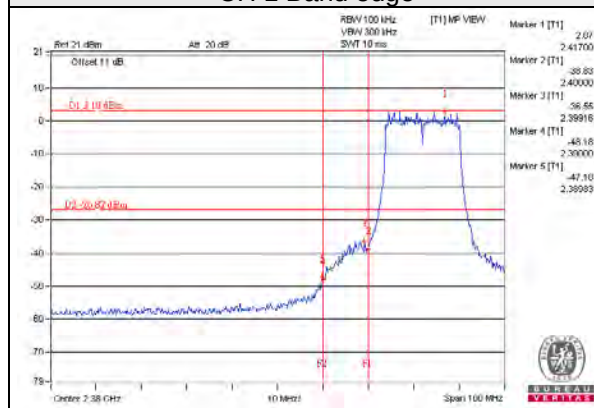
CH 6



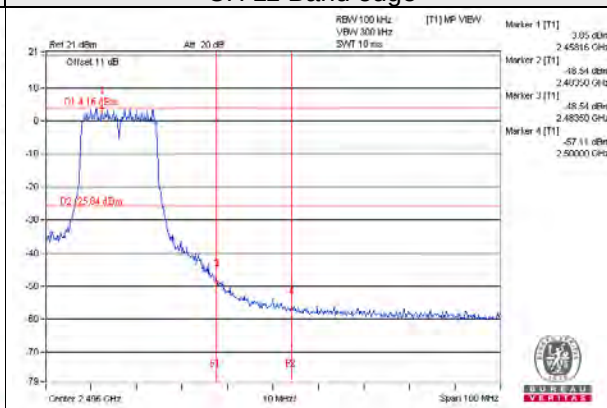
CH 11



CH 1 Band edge

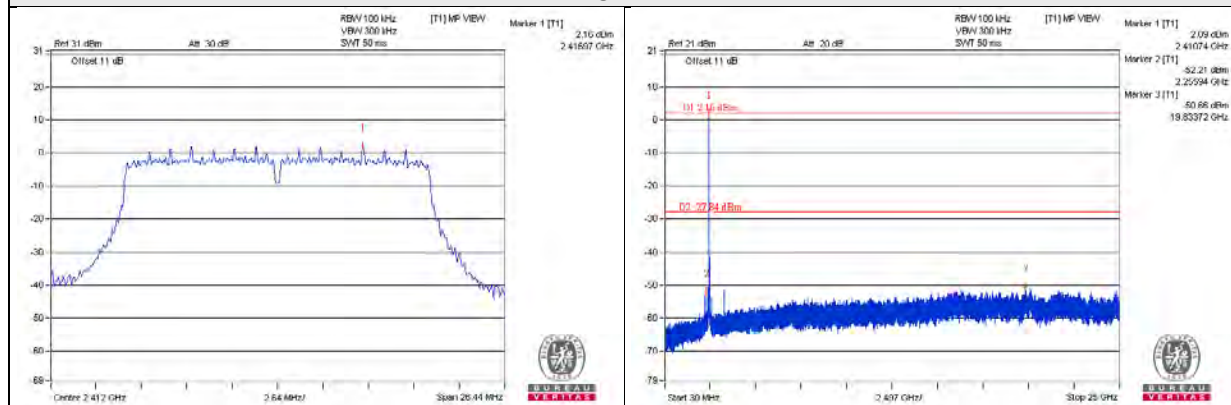


CH 11 Band edge

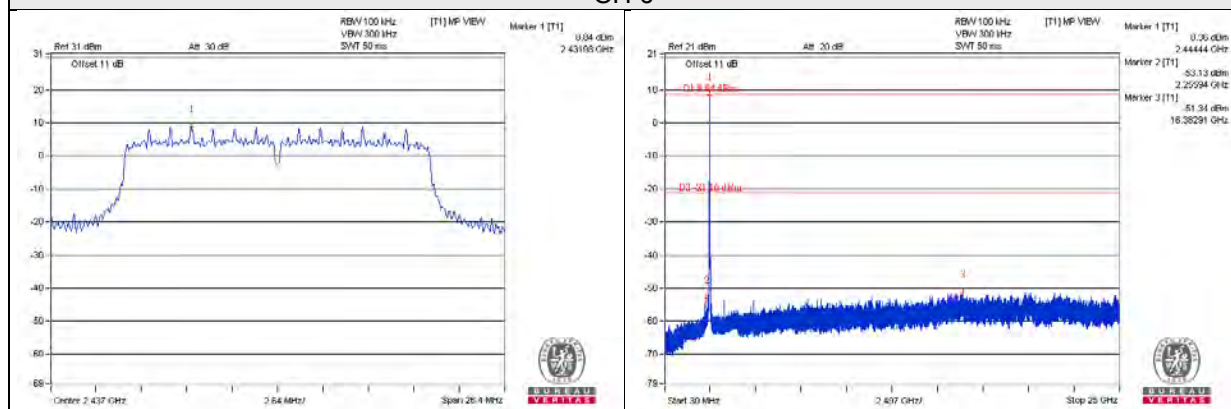


802.11n (HT20)_Chain 0

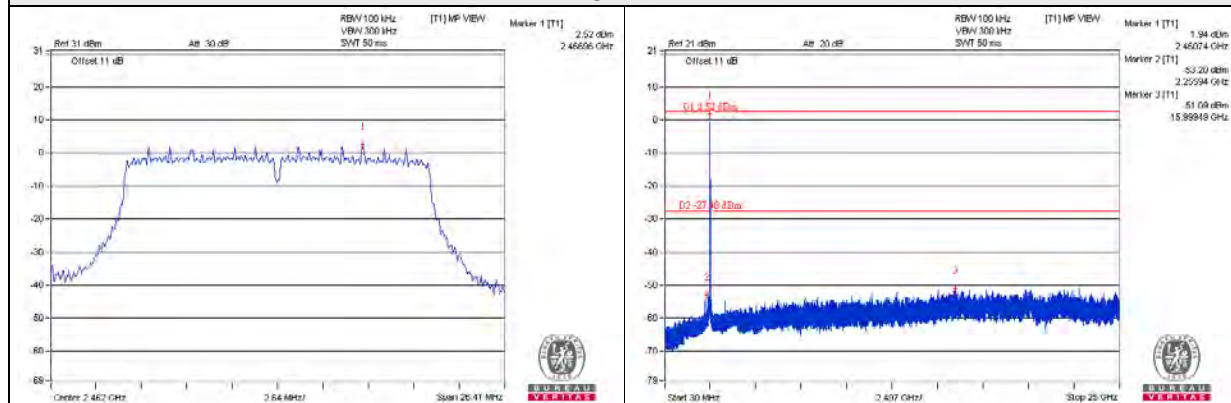
CH 1



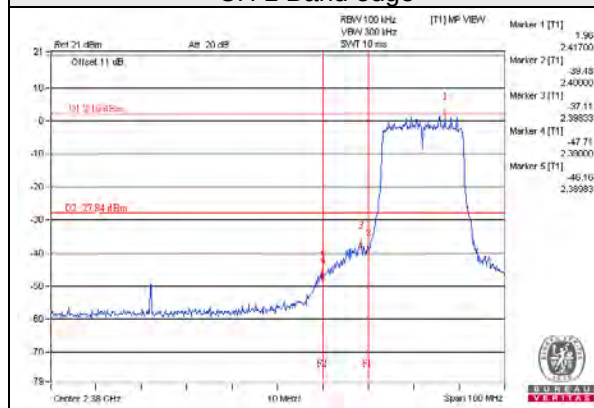
CH 6



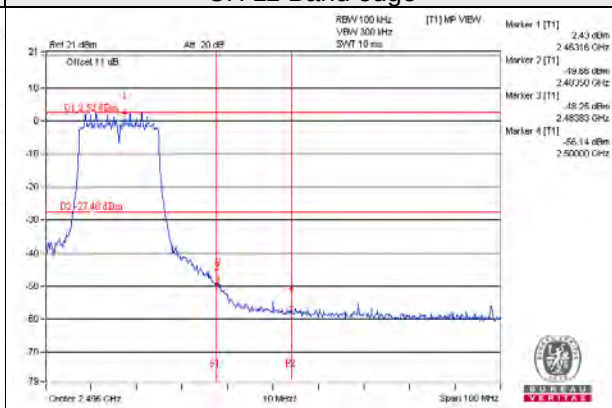
CH 11



CH 1 Band edge

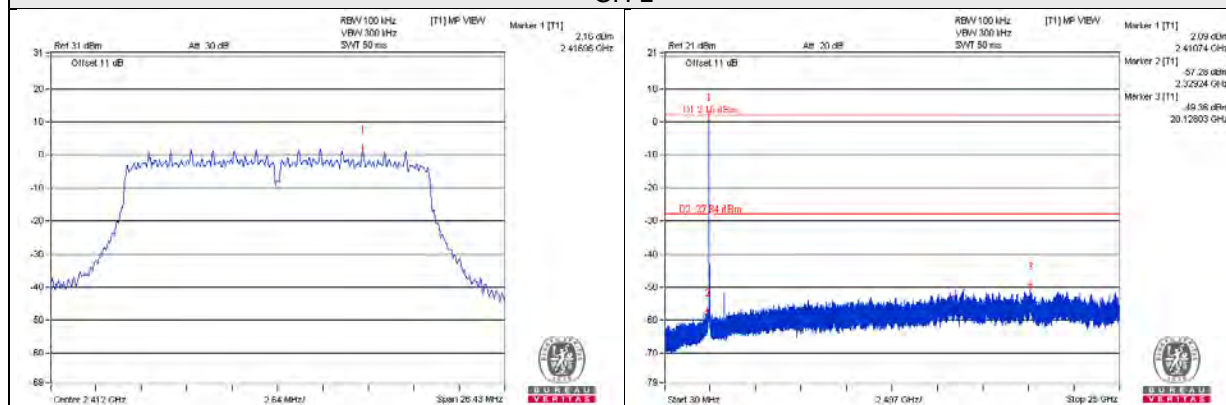


CH 11 Band edge

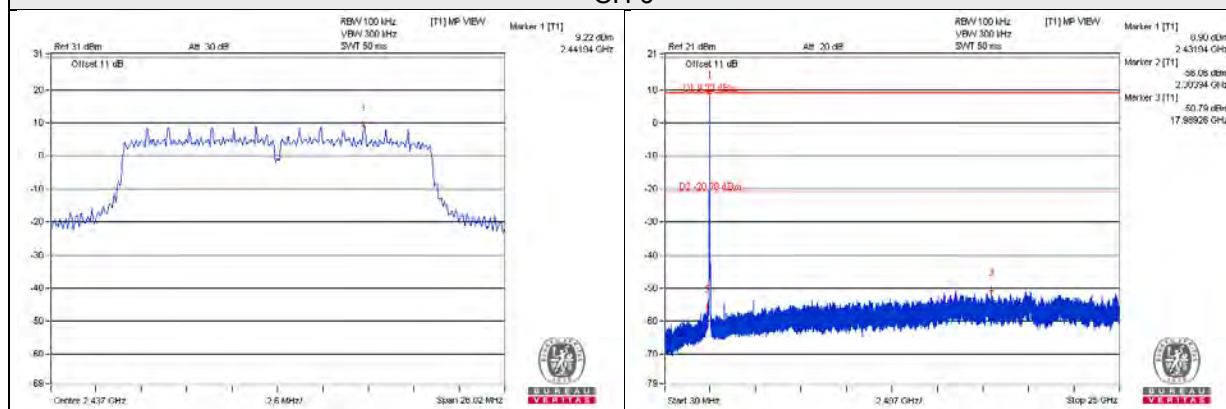


802.11n (HT20)_Chain 1

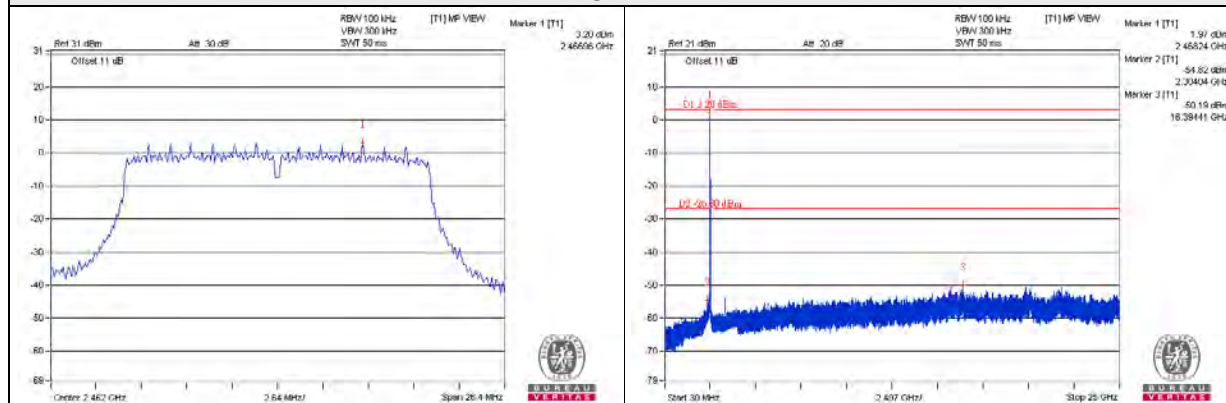
CH 1



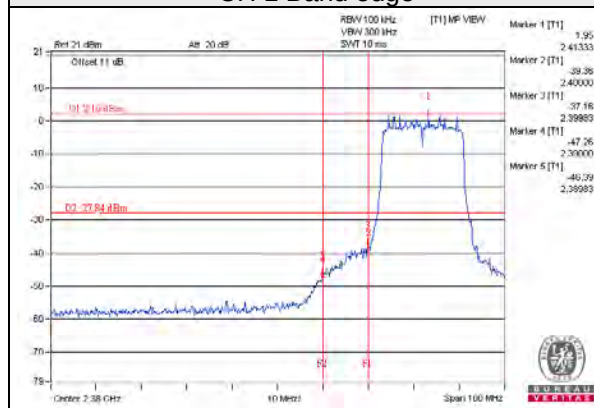
CH 6



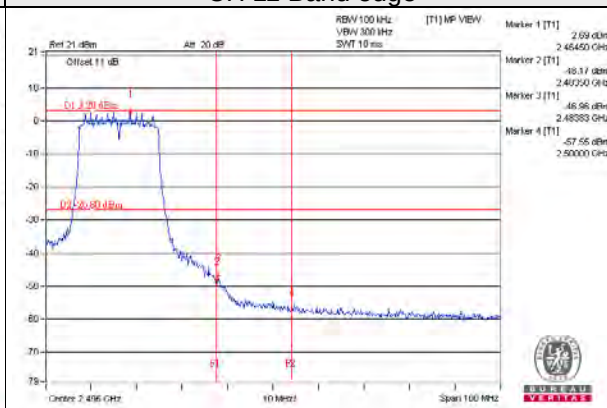
CH 11



CH 1 Band edge

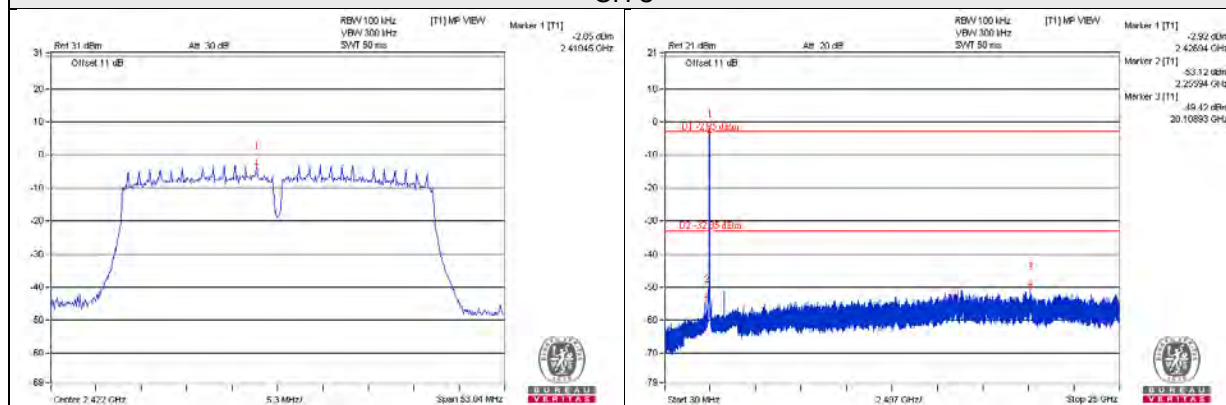


CH 11 Band edge

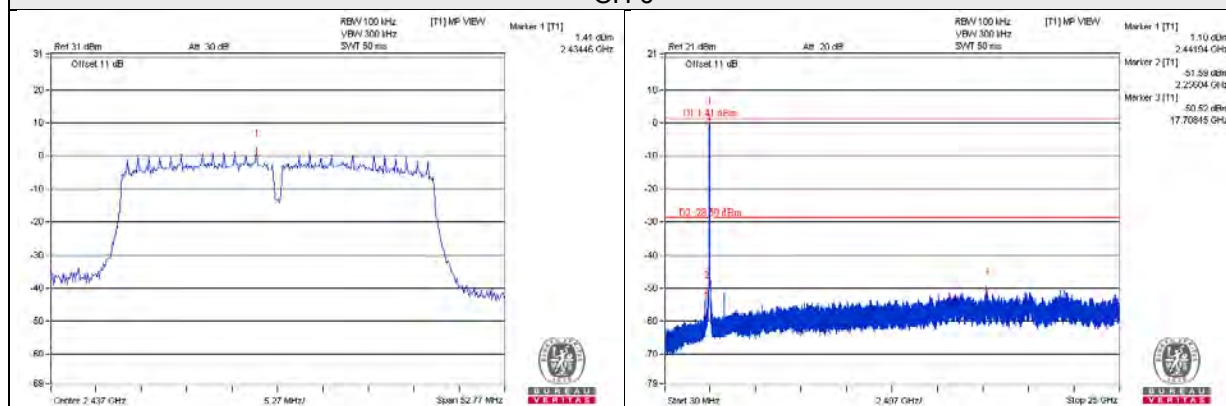


802.11n (HT40)_Chain 0

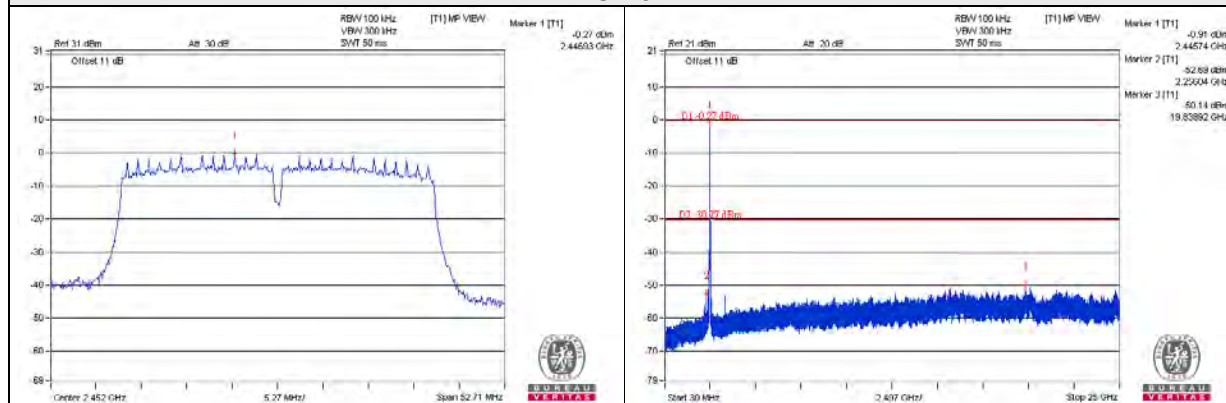
CH 3



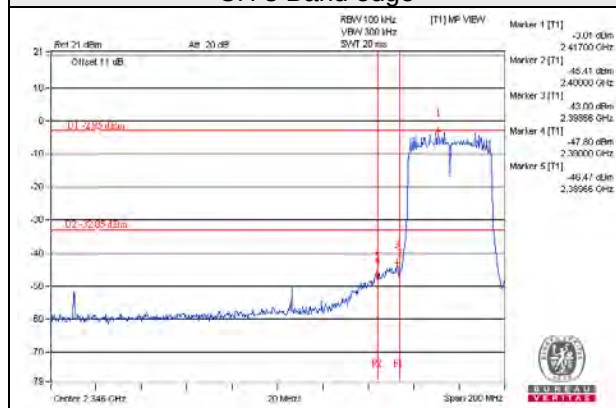
CH 6



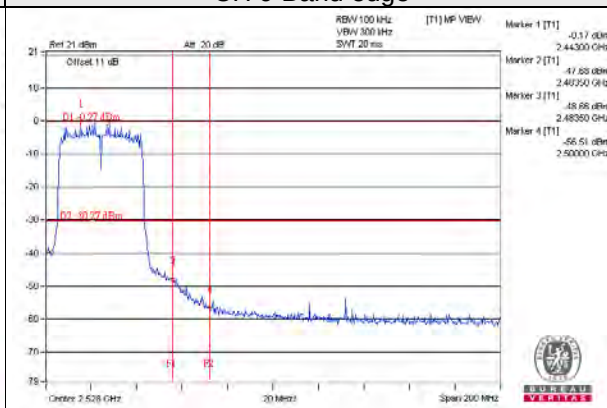
CH 9



CH 3 Band edge

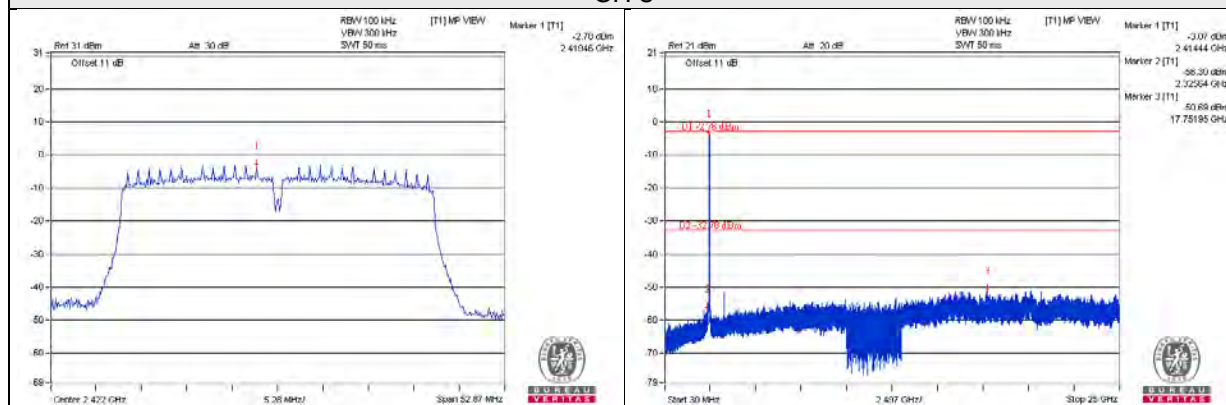


CH 9 Band edge

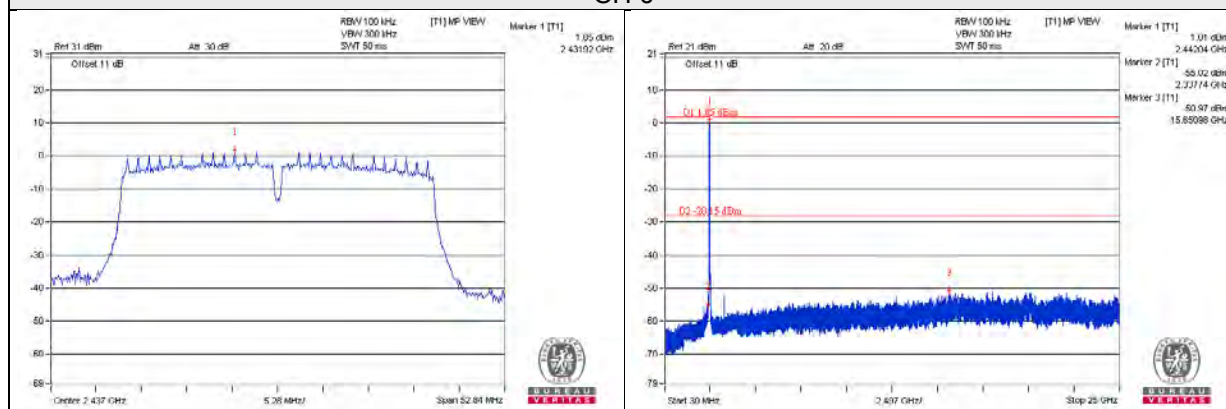


802.11n (HT40)_Chain 1

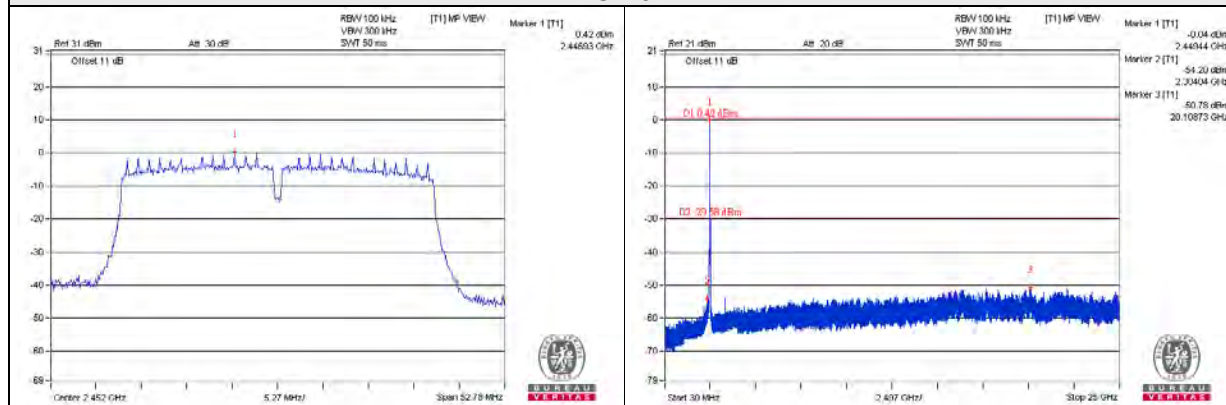
CH 3



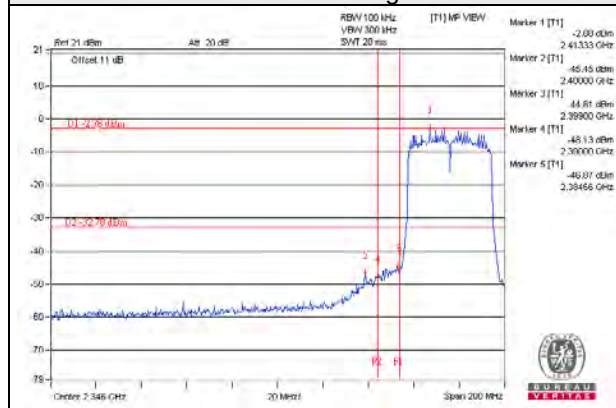
CH 6



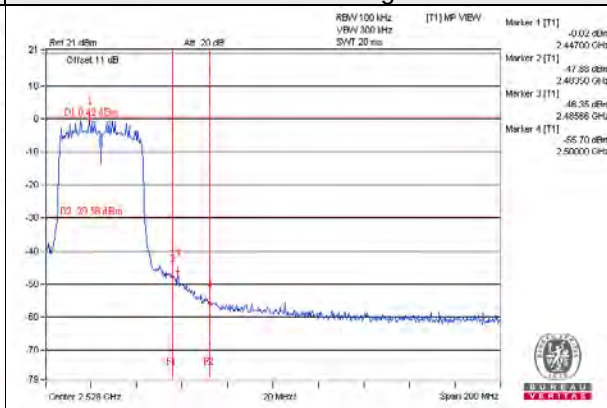
CH 9



CH 3 Band edge

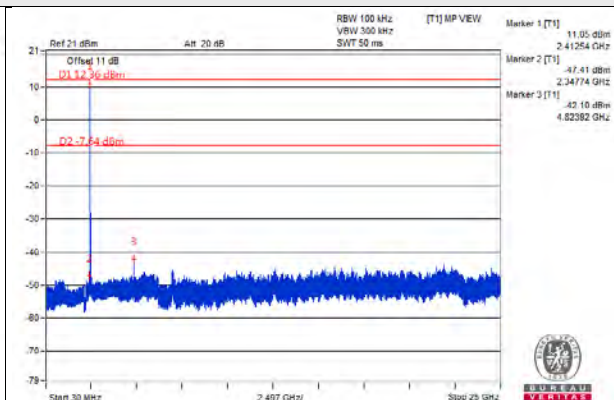
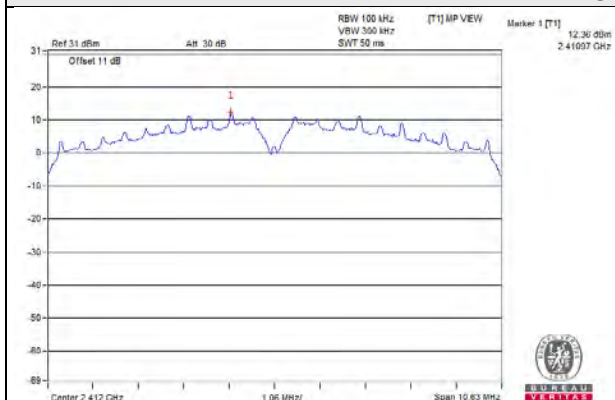


CH 9 Band edge

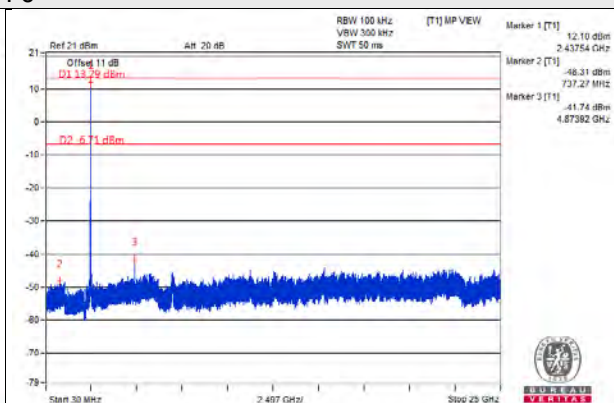
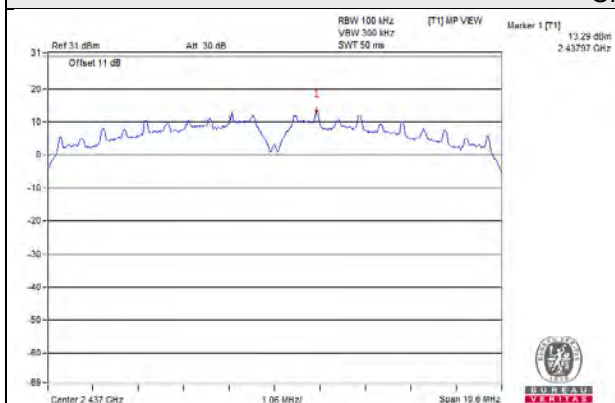


Test Mode F
802.11b

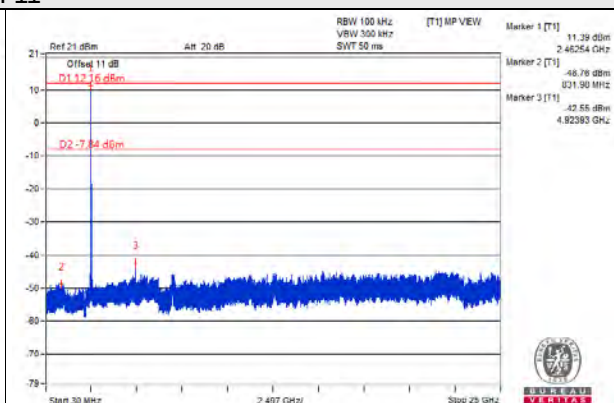
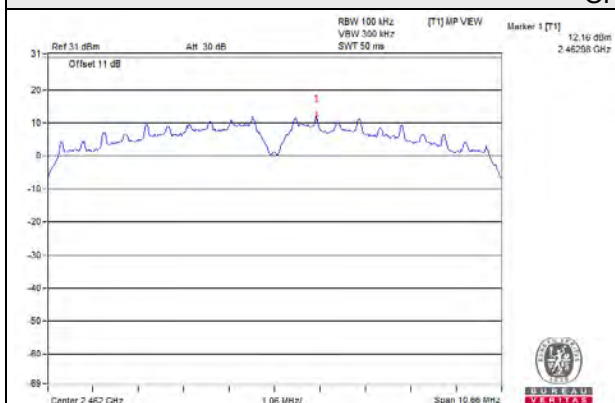
CH 1



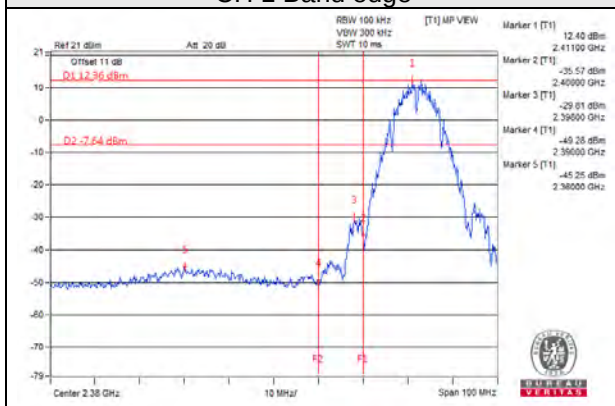
CH 6



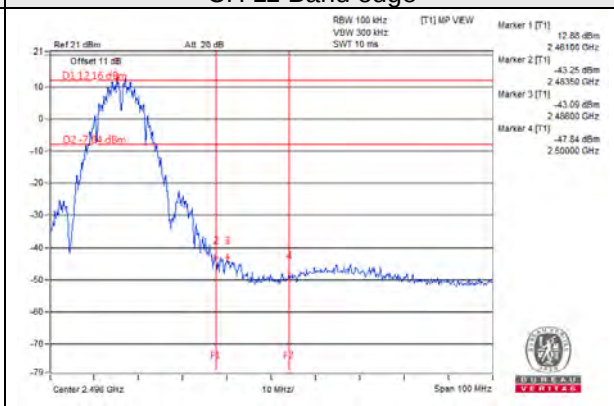
CH 11



CH 1 Band edge

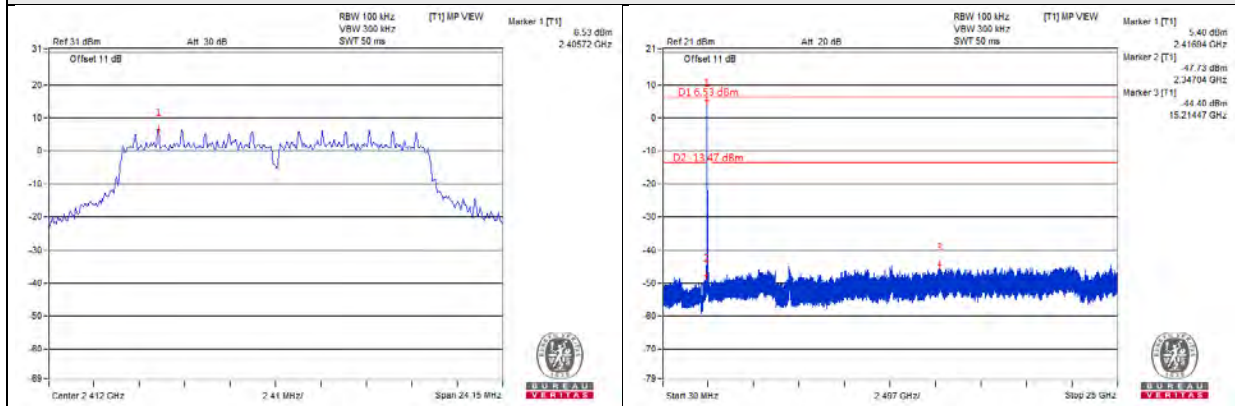


CH 11 Band edge

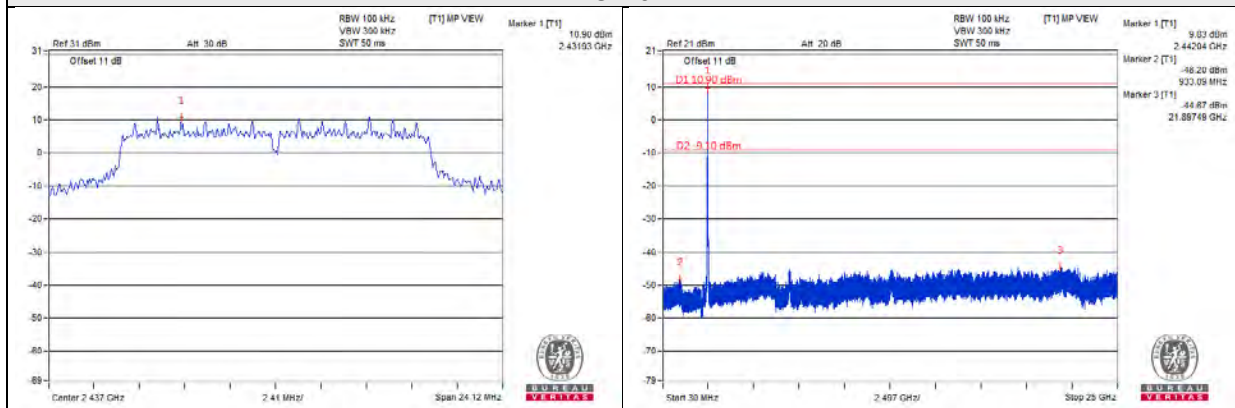


802.11g

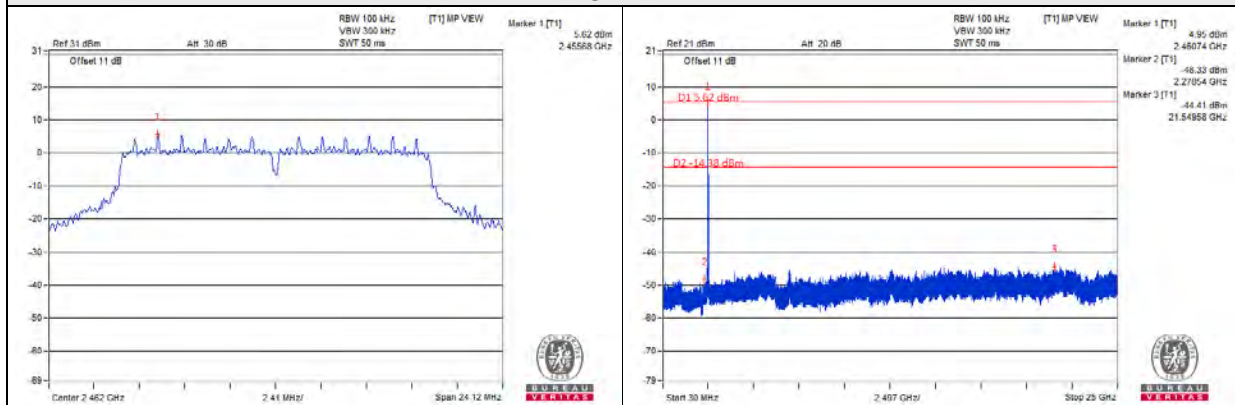
CH 1



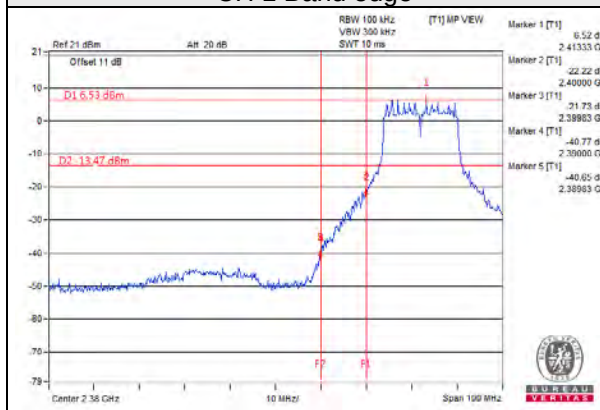
CH 6



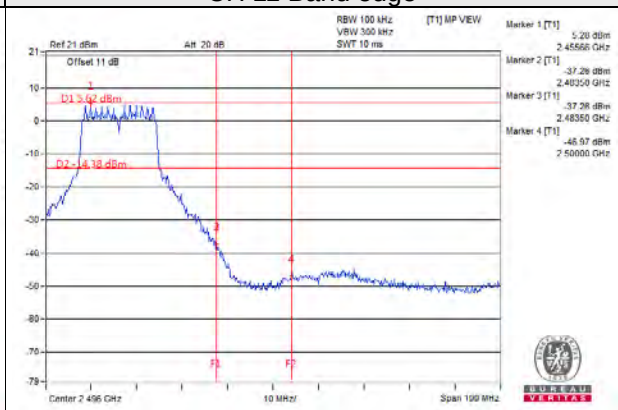
CH 11



CH 1 Band edge

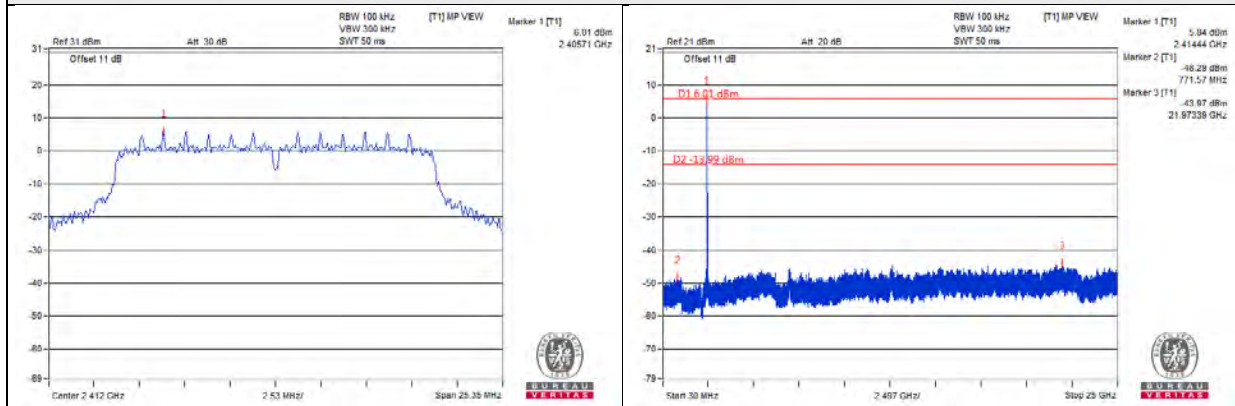


CH 11 Band edge

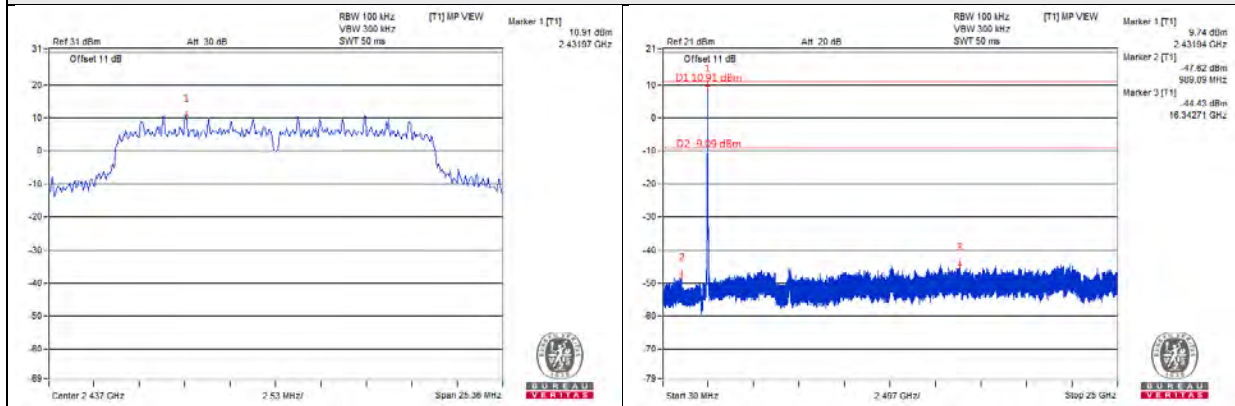


802.11n (HT20)

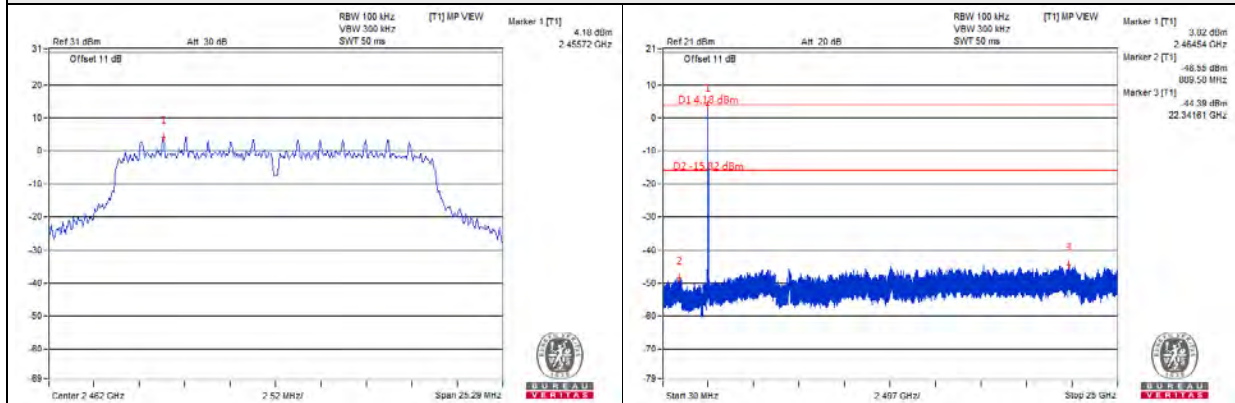
CH 1



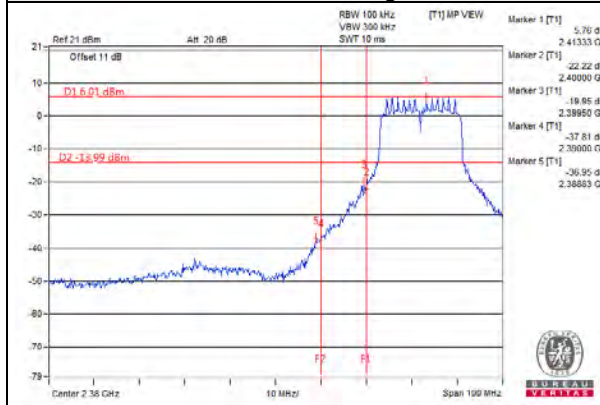
CH 6



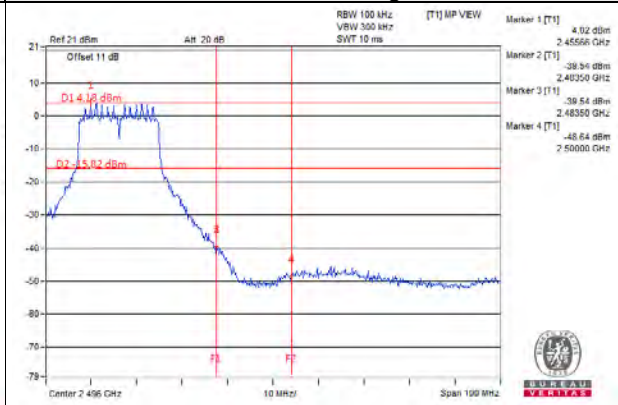
CH 11



CH 1 Band edge

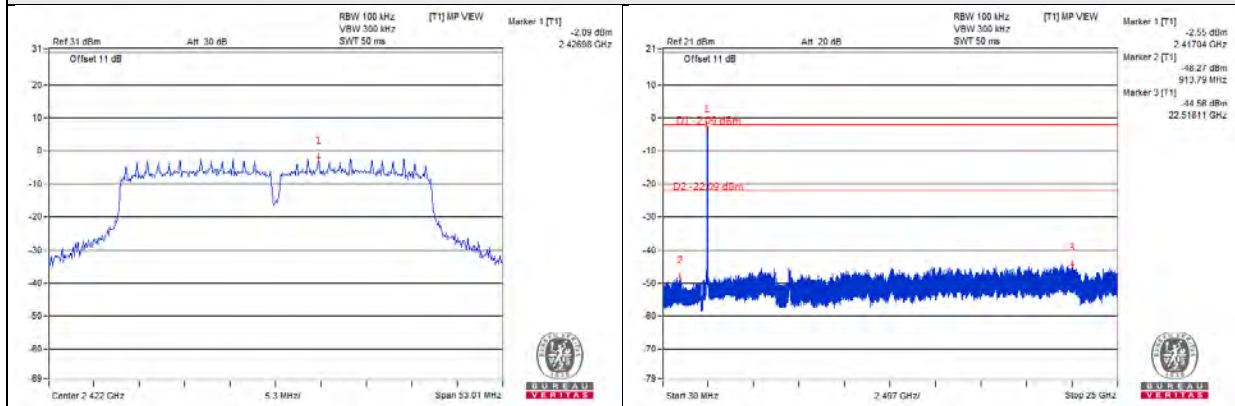


CH 11 Band edge

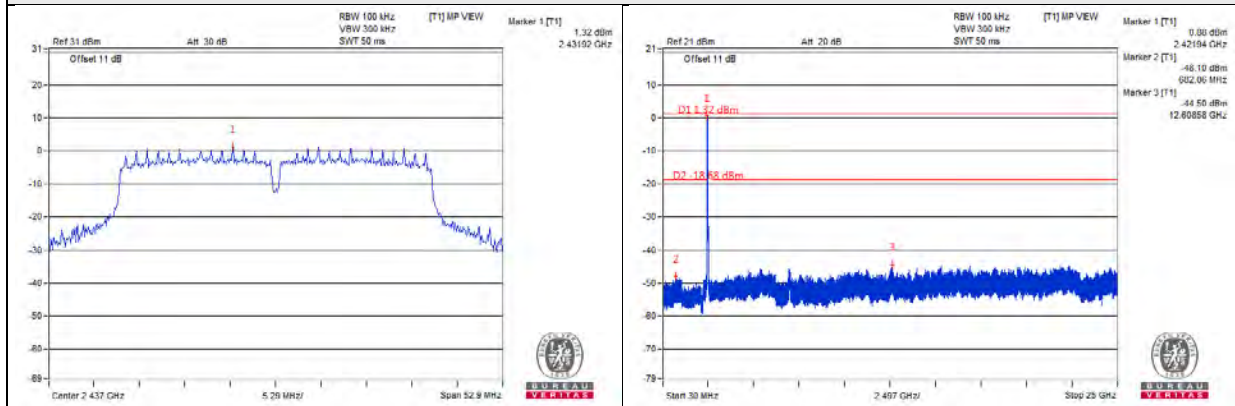


802.11n (HT40)

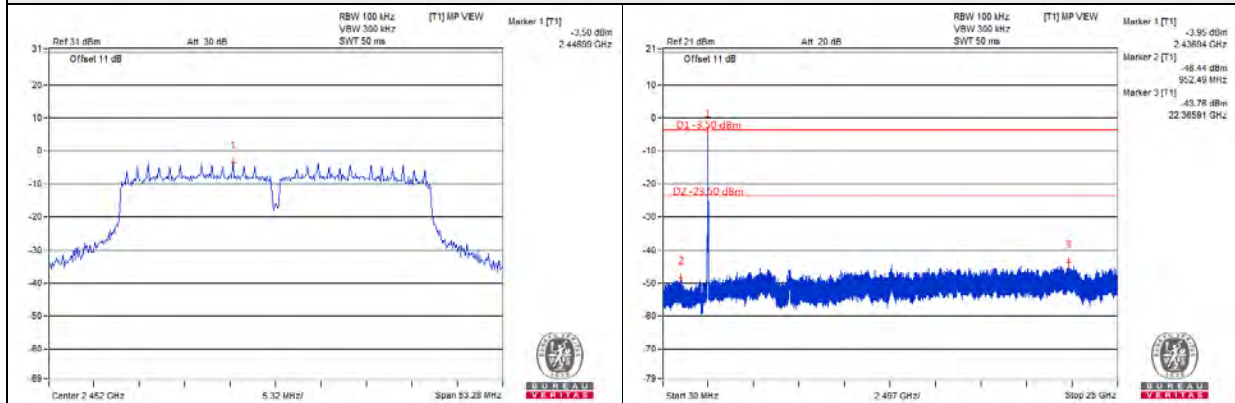
CH 3



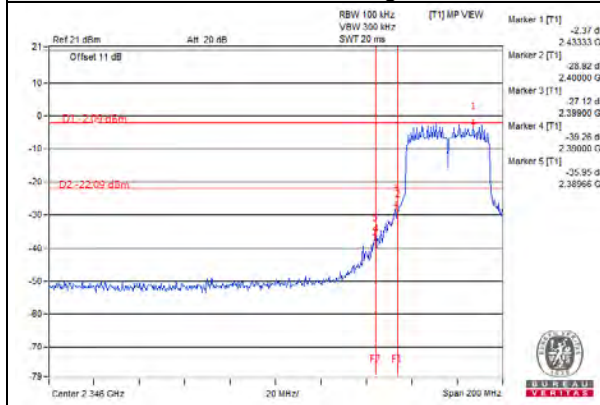
CH 6



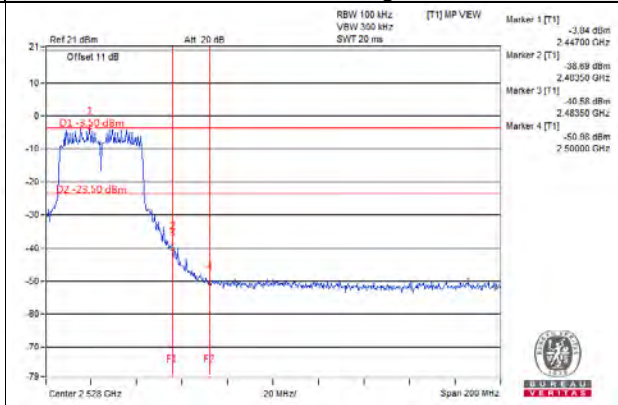
CH 9



CH 3 Band edge



CH 9 Band edge



5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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