

FCC Test Report

Report No.: RF180227E06

FCC ID: KA2IR2680A1

Test Model: DIR-2680

Received Date: Feb. 27, 2018

Test Date: Mar. 17 to 26, 2018

Issued Date: Apr. 26, 2018

Applicant: D-Link Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF180227E06	Original release.	Apr. 26, 2018

1 Certificate of Conformity

Product: D-Fend AC2600 Wi-Fi Router

Brand: D-Link Corporation

Test Model: DIR-2680

Sample Status: ENGINEERING SAMPLE

Applicant: D-Link Corporation

Test Date: Mar. 17 to 26, 2018

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 : Wendy Wu , **Date:** Apr. 26, 2018
Wendy Wu / Specialist

Approved by : May Chen , **Date:** Apr. 26, 2018
May Chen / 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 -18.92dB at 0.47031MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.1dB at 2390.00MHz, 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	Antenna connector is i-pex (MHF) not a standard connector.
-	Occupied Bandwidth Measurement	-	Reference only

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) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.84 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.53 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	5.08 dB
	6GHz ~ 18GHz	4.98 dB
	18GHz ~ 40GHz	5.19 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	D-Fend AC2600 Wi-Fi Router
Brand	D-Link Corporation
Test Model	DIR-2680
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	12Vdc from power adapter
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps
Operating Frequency	2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.18 ~ 5.24GHz, 5.745 ~ 5.825GHz
Number of Channel	2.4GHz: 802.11b, 802.11g, 802.11n (HT20): 11 802.11n (HT40): 7 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 9 802.11n (HT40), 802.11ac (VHT40): 4 802.11ac (VHT80): 2
Output Power	2.4GHz: 1TX Mode: 663.743mW CDD Mode: 993.019mW Beamforming Mode: 401.721mW 5GHz: CDD Mode: 5.18 ~ 5.24GHz: 650.182mW 5.745 ~ 5.825GHz: 988.682mW Beamforming Mode: 5.18 ~ 5.24GHz: 323.859mW 5.745 ~ 5.825GHz: 328.561mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Adapter x1
Data Cable Supplied	NA

Note:

1. The EUT may have black and white colors for marketing requirement.
2. Simultaneously transmission condition.

Condition	Technology	
1	WLAN 2.4GHz	WLAN 5GHz

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The EUT must be supplied from power adapter as following table:

No.	Brand	Model No.	Spec.	Color	Plug
1	APD	WA-36A12FU	Input: 100-240Vac, 0.9A, 50-60Hz Output: 12Vdc, 3A DC output cable (Unshielded, 1.2m)	Black & White	-
2	APD	WA-36A12R	Input: 100-240Vac, 0.9A, 50-60Hz Output: 12Vdc, 3A DC output cable (Unshielded, 1.2m)	Black & White	Replaceable

From above adapter, Adapter 1 was selected for final test.

4. The antennas provided to the EUT, please refer to the following table:

Ant No.	PCB No.	Brand	Model	Antenna Gain (dBi)	Frequency rang (MHz)	Antenna type	Connector type
1	AJ5 (2.4GHz_4 5GHz_1)	Whayu	C641-510203-A	3.6	2400~2500	Dipole	i-pex(MHF)
				4.9	5150~5825		
2	AJ6 (2.4GHz_3 5GHz_2)	Whayu	C641-510204-A	3.8	2400~2500	Dipole	i-pex(MHF)
				4.6	5150~5825		
3	AJ7 (2.4GHz_2 5GHz_3)	Whayu	C641-510205-A	3.9	2400~2500	Dipole	i-pex(MHF)
				4.9	5150~5825		
4	AJ8 (2.4GHz_1 5GHz_4)	Whayu	C641-510206-A	3.9	2400~2500	Dipole	i-pex(MHF)
				4.8	5150~5825		

For 802.11b mode will fix transmission on Ant 4.

5. The EUT incorporates a MIMO function.

2.4GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11b	1 ~ 11Mbps	1TX Fixed Ant 4	1RX
802.11g	6 ~ 54Mbps	4TX	4RX
802.11n (HT20)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
802.11n (HT40)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
5GHz Band			
MODULATION MODE	DATA RATE (MCS)	TX & RX CONFIGURATION	
802.11a	6 ~ 54Mbps	4TX	4RX
802.11n (HT20)	MCS 0~7	4TX	4RX
	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
	MCS 0~7	4TX	4RX
802.11n (HT40)	MCS 8~15	4TX	4RX
	MCS 16~23	4TX	4RX
	MCS 24~31	4TX	4RX
	MCS 0~7	4TX	4RX
802.11ac (VHT20)	MCS0~8 Nss=1	4TX	4RX
	MCS0~8 Nss=2	4TX	4RX
	MCS0~9 Nss=3	4TX	4RX
	MCS0~8 Nss=4	4TX	4RX
802.11ac (VHT40)	MCS0~9 Nss=1	4TX	4RX
	MCS0~9 Nss=2	4TX	4RX
	MCS0~9 Nss=3	4TX	4RX
	MCS0~9 Nss=4	4TX	4RX
802.11ac (VHT80)	MCS0~9 Nss=1	4TX	4RX
	MCS0~9 Nss=2	4TX	4RX
	MCS0~9 Nss=3	4TX	4RX
	MCS0~9 Nss=4	4TX	4RX

Note:

1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.

6. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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	
-	√	√	√	√	-

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

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.

1TX Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 2, 3, 6, 9, 10, 11	DSSS	DBPSK	1
CDD Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 2, 3, 4, 6, 9, 10, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

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.

CDD Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

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.

CDD Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	6	OFDM	BPSK	6

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.

1TX Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11b	1 to 11	1, 2, 3, 6, 9, 10, 11	DSSS	DBPSK	1
CDD Mode					
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
802.11g	1 to 11	1, 2, 3, 6, 9, 10, 11	OFDM	BPSK	6
802.11n (HT20)	1 to 11	1, 2, 3, 4, 6, 9, 10, 11	OFDM	BPSK	6.5
802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE $\geq$ 1G	23deg. C, 69%RH	120Vac, 60Hz	Steven Chiang
RE<1G	23deg. C, 68%RH	120Vac, 60Hz	Steven Chiang
PLC	25deg. C, 75%RH	120Vac, 60Hz	Andy Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng

3.3 Duty Cycle of Test Signal

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

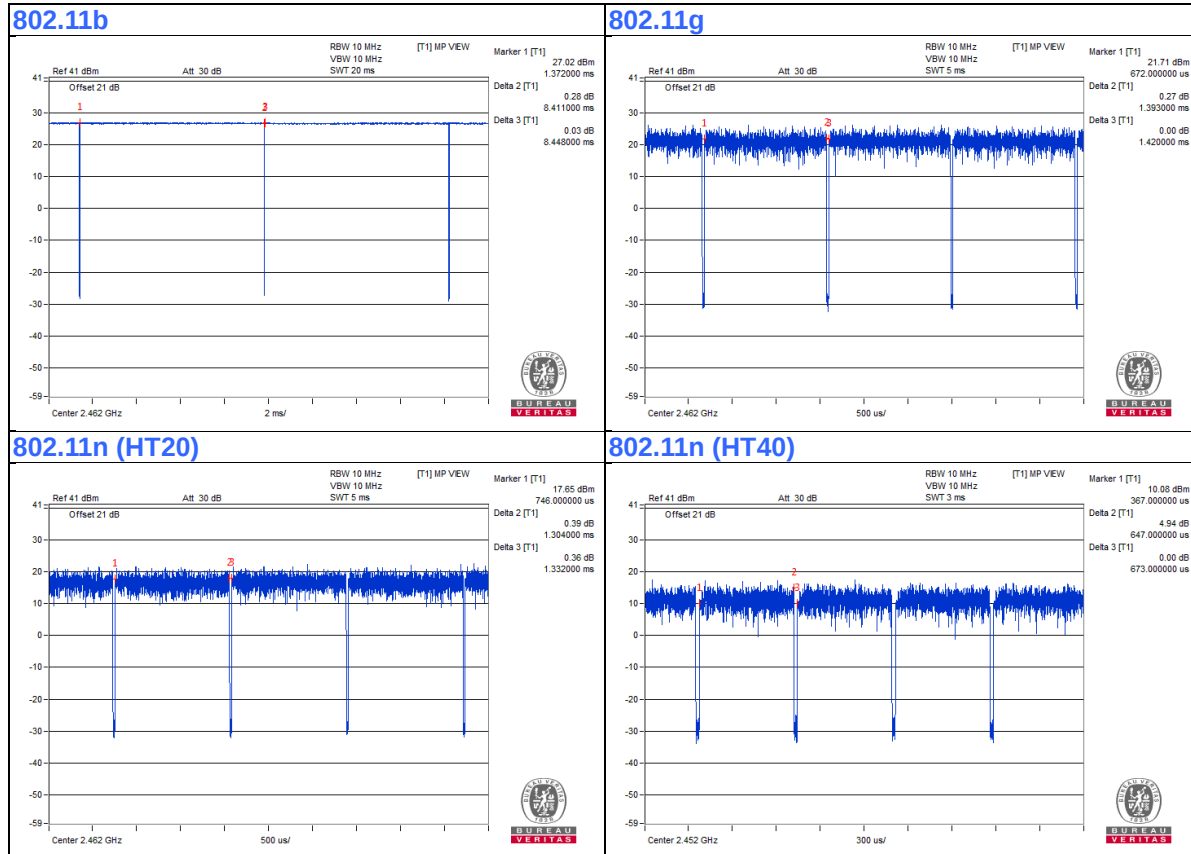
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11b: Duty cycle = $8.411 \text{ ms} / 8.448 \text{ ms} = 0.996$

802.11g: Duty cycle = $1.393 \text{ ms} / 1.42 \text{ ms} = 0.981$

802.11n (HT20): Duty cycle = $1.304 \text{ ms} / 1.332 \text{ ms} = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11n (HT40): Duty cycle = $0.647 \text{ ms} / 0.673 \text{ ms} = 0.961$, Duty factor = $10 * \log(1/0.961) = 0.17$



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.

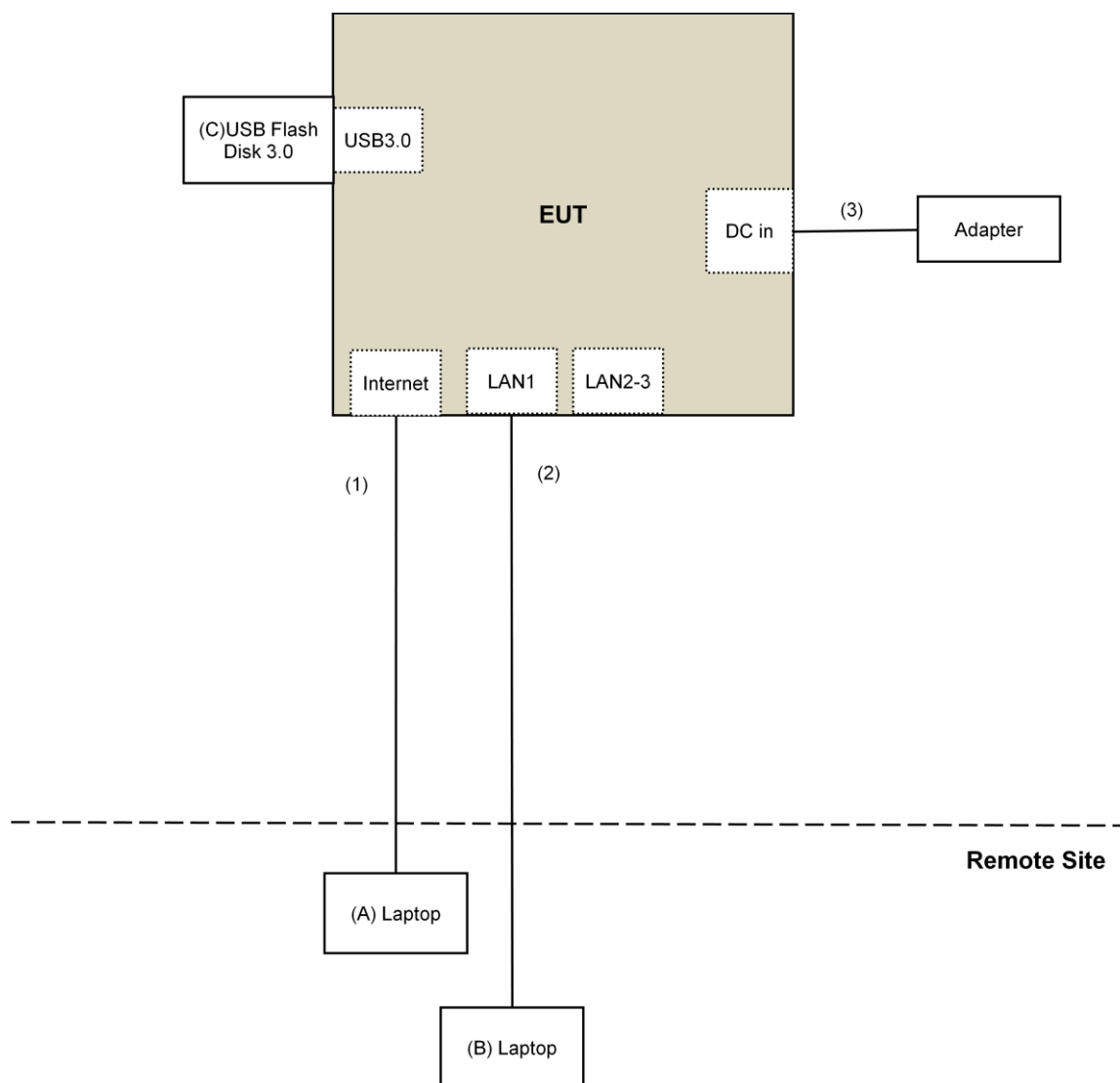
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6420	B92T3R1	FCC DoC	Provided by Lab
B.	Laptop	DELL	E6420	482T3R1	FCC DoC	Provided by Lab
C.	USB Flash Disk 3.0	Transcend	16GB	NA	NA	Provided by Lab

Note:

1. All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	RJ-45 Cable	1	10	No	0	Provided by Lab
2.	RJ-45 Cable	1	10	No	0	Provided by Lab
3.	DC Cable	1	1.2	No	0	Supplied by client

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 v04
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 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 20dB under any condition of modulation.

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Agilent	N9038A	MY50010156	July 12, 2017	July 11, 2018
Pre-Amplifier EMCI	EMC001340	980142	Feb. 09, 2018	Feb. 08, 2019
Loop Antenna ^(*) Electro-Metrics	EM-6879	264	Dec. 16, 2016	Dec. 15, 2018
RF Cable	NA	LOOPCAB-001 LOOPCAB-002	Jan. 15, 2018	Jan. 14, 2019
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	May 06, 2017	May 05, 2018
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 29, 2017	Nov. 28, 2018
RF Cable	8D	966-3-1 966-3-2 966-3-3	Apr. 01, 2017	Mar. 31, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Oct. 03, 2017	Oct. 02, 2018
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160922 150317 150322	Jan. 29, 2018	Jan. 28, 2019
Spectrum Analyzer Keysight	N9030A	MY54490679	July 25, 2017	July 24, 2018
Pre-Amplifier EMCI	EMC184045SE	980386	Jan. 29, 2018	Jan. 28, 2019
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	EMC102-KM-KM-1200	160924	Jan. 29, 2018	Jan. 28, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Spectrum Analyzer R&S	FSV40	100964	July 1, 2017	June 30, 2018
Power meter Anritsu	ML2495A	1014008	May 11, 2017	May 10, 2018
Power sensor Anritsu	MA2411B	0917122	May 11, 2017	May 10, 2018

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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 3.
4. The CANADA Site Registration No. is 20331-1
5. Loop antenna was used for all emissions below 30 MHz.
6. Tested Date: Mar. 24 to 26, 2018

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. Parallel, perpendicular, and ground-parallel orientations 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 detects 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:

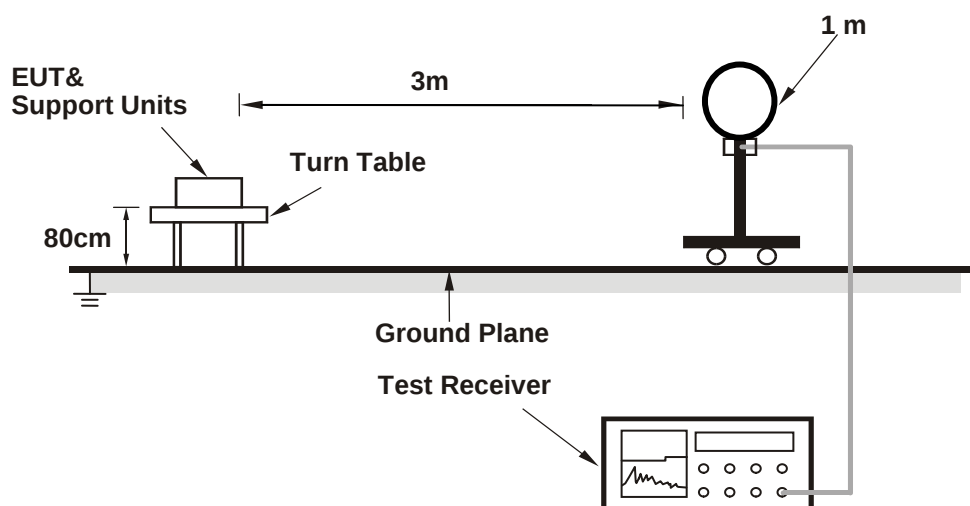
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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

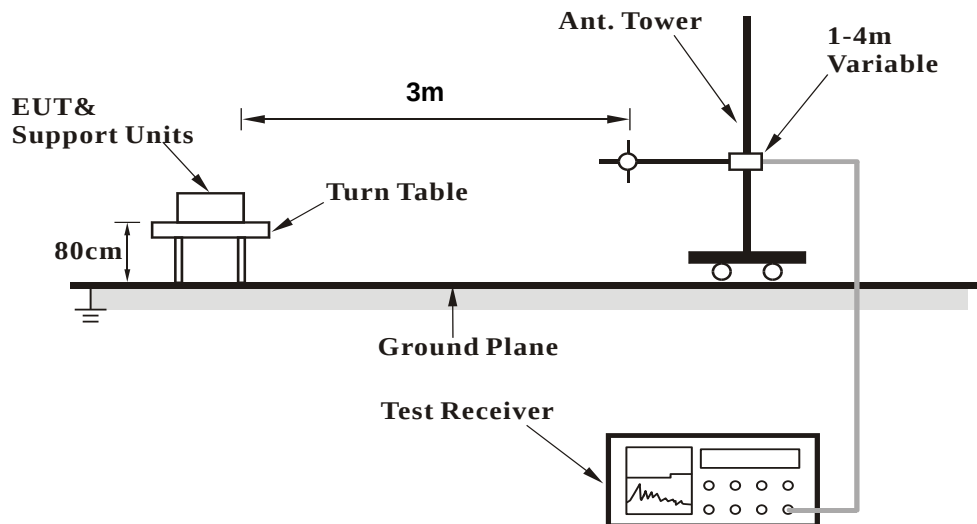
No deviation.

4.1.5 Test Setup

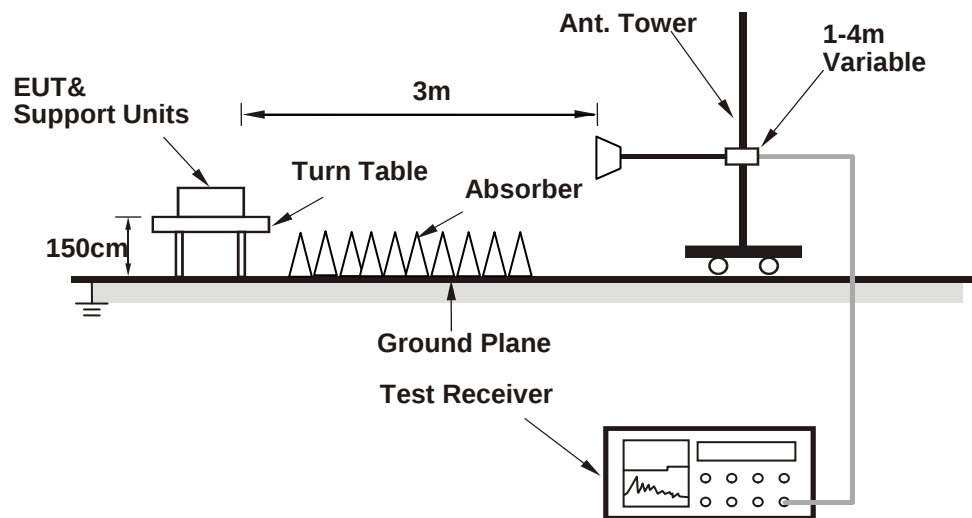
For Radiated emission below 30MHz



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

- a. Connected the EUT with the Laptop which is placed on remote site.
- b. Controlling software (DUT_setup.540.54.exe) has been activated to set the EUT on specific status.

4.1.7 Test Results

Above 1GHz 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	61.9 PK	74.0	-12.1	1.34 H	37	63.6	-1.7
2	2390.00	52.1 AV	54.0	-1.9	1.34 H	37	53.8	-1.7
3	*2412.00	115.6 PK			1.34 H	37	117.4	-1.8
4	*2412.00	105.5 AV			1.34 H	37	107.3	-1.8
5	4824.00	40.2 PK	74.0	-33.8	1.27 H	39	37.1	3.1
6	4824.00	38.0 AV	54.0	-16.0	1.27 H	39	34.9	3.1
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	2390.00	62.8 PK	74.0	-11.2	1.16 V	172	64.5	-1.7
2	2390.00	52.9 AV	54.0	-1.1	1.16 V	172	54.6	-1.7
3	*2412.00	119.1 PK			1.16 V	172	120.9	-1.8
4	*2412.00	109.8 AV			1.16 V	172	111.6	-1.8
5	4824.00	40.3 PK	74.0	-33.7	1.24 V	35	37.2	3.1
6	4824.00	38.3 AV	54.0	-15.7	1.24 V	35	35.2	3.1

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
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 2	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	62.7 PK	74.0	-11.3	1.51 H	357	64.4	-1.7
2	2390.00	52.3 AV	54.0	-1.7	1.51 H	357	54.0	-1.7
3	*2417.00	117.2 PK			1.51 H	357	119.1	-1.9
4	*2417.00	107.9 AV			1.51 H	357	109.8	-1.9
5	4834.00	40.0 PK	74.0	-34.0	1.29 H	38	36.9	3.1
6	4834.00	38.2 AV	54.0	-15.8	1.29 H	38	35.1	3.1
7	7251.00	46.1 PK	74.0	-27.9	1.40 H	189	36.9	9.2
8	7251.00	35.4 AV	54.0	-18.6	1.40 H	189	26.2	9.2
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	63.6 PK	74.0	-10.4	1.20 V	175	65.3	-1.7
2	2390.00	52.8 AV	54.0	-1.2	1.20 V	175	54.5	-1.7
3	*2417.00	121.3 PK			1.20 V	175	123.2	-1.9
4	*2417.00	111.3 AV			1.20 V	175	113.2	-1.9
5	4834.00	44.4 PK	74.0	-29.6	1.47 V	177	41.3	3.1
6	4834.00	41.8 AV	54.0	-12.2	1.47 V	177	38.7	3.1
7	7251.00	51.6 PK	74.0	-22.4	2.02 V	215	42.4	9.2
8	7251.00	40.9 AV	54.0	-13.1	2.02 V	215	31.7	9.2

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 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	62.1 PK	74.0	-11.9	1.54 H	359	63.8	-1.7
2	2390.00	52.1 AV	54.0	-1.9	1.54 H	359	53.8	-1.7
3	*2422.00	121.3 PK			1.54 H	359	123.3	-2.0
4	*2422.00	110.1 AV			1.54 H	359	112.1	-2.0
5	4844.00	47.6 PK	74.0	-26.4	1.42 H	234	44.5	3.1
6	4844.00	45.1 AV	54.0	-8.9	1.42 H	234	42.0	3.1
7	7266.00	49.8 PK	74.0	-24.2	1.39 H	353	40.6	9.2
8	7266.00	38.8 AV	54.0	-15.2	1.39 H	353	29.6	9.2
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	63.8 PK	74.0	-10.2	1.00 V	186	65.5	-1.7
2	2390.00	52.6 AV	54.0	-1.4	1.00 V	186	54.3	-1.7
3	*2422.00	123.3 PK			1.00 V	186	125.3	-2.0
4	*2422.00	114.0 AV			1.00 V	186	116.0	-2.0
5	4844.00	47.7 PK	74.0	-26.3	1.42 V	241	44.6	3.1
6	4844.00	45.3 AV	54.0	-8.7	1.42 V	241	42.2	3.1
7	7266.00	49.8 PK	74.0	-24.2	1.43 V	352	40.6	9.2
8	7266.00	38.5 AV	54.0	-15.5	1.43 V	352	29.3	9.2

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	59.2 PK	74.0	-14.8	1.48 H	338	60.9	-1.7
2	2390.00	49.0 AV	54.0	-5.0	1.48 H	338	50.7	-1.7
3	*2437.00	121.8 PK			1.48 H	338	123.9	-2.1
4	*2437.00	112.0 AV			1.48 H	338	114.1	-2.1
5	2483.50	58.6 PK	74.0	-15.4	1.48 H	338	60.6	-2.0
6	2483.50	48.9 AV	54.0	-5.1	1.48 H	338	50.9	-2.0
7	4874.00	48.2 PK	74.0	-25.8	1.47 H	46	45.0	3.2
8	4874.00	46.1 AV	54.0	-7.9	1.47 H	46	42.9	3.2
9	7311.00	52.2 PK	74.0	-21.8	1.39 H	225	43.0	9.2
10	7311.00	41.5 AV	54.0	-12.5	1.39 H	225	32.3	9.2

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	59.9 PK	74.0	-14.1	1.17 V	174	61.6	-1.7
2	2390.00	50.1 AV	54.0	-3.9	1.17 V	174	51.8	-1.7
3	*2437.00	124.8 PK			1.17 V	174	126.9	-2.1
4	*2437.00	115.3 AV			1.17 V	174	117.4	-2.1
5	2483.50	59.6 PK	74.0	-14.4	1.17 V	174	61.6	-2.0
6	2483.50	49.9 AV	54.0	-4.1	1.17 V	174	51.9	-2.0
7	4874.00	47.8 PK	74.0	-26.2	1.39 V	244	44.6	3.2
8	4874.00	45.4 AV	54.0	-8.6	1.39 V	244	42.2	3.2
9	7311.00	50.2 PK	74.0	-23.8	1.44 V	353	41.0	9.2
10	7311.00	39.0 AV	54.0	-15.0	1.44 V	353	29.8	9.2

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 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	121.1 PK			1.49 H	349	123.1	-2.0
2	*2452.00	110.0 AV			1.49 H	349	112.0	-2.0
3	2483.50	61.9 PK	74.0	-12.1	1.49 H	349	63.9	-2.0
4	2483.50	51.9 AV	54.0	-2.1	1.49 H	349	53.9	-2.0
5	4904.00	47.0 PK	74.0	-27.0	1.45 H	250	43.7	3.3
6	4904.00	44.6 AV	54.0	-9.4	1.45 H	250	41.3	3.3
7	7356.00	50.0 PK	74.0	-24.0	1.34 H	339	40.6	9.4
8	7356.00	39.2 AV	54.0	-14.8	1.34 H	339	29.8	9.4
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	*2452.00	122.8 PK			1.00 V	167	124.8	-2.0
2	*2452.00	114.4 AV			1.00 V	167	116.4	-2.0
3	2483.50	63.9 PK	74.0	-10.1	1.00 V	167	65.9	-2.0
4	2483.50	52.6 AV	54.0	-1.4	1.00 V	167	54.6	-2.0
5	4904.00	47.2 PK	74.0	-26.8	1.43 V	263	43.9	3.3
6	4904.00	44.9 AV	54.0	-9.1	1.43 V	263	41.6	3.3
7	7356.00	49.8 PK	74.0	-24.2	1.31 V	331	40.4	9.4
8	7356.00	39.2 AV	54.0	-14.8	1.31 V	331	29.8	9.4

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) – 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 10	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	*2457.00	118.9 PK			1.45 H	360	120.9	-2.0
2	*2457.00	108.8 AV			1.45 H	360	110.8	-2.0
3	2483.50	62.0 PK	74.0	-12.0	1.45 H	360	64.0	-2.0
4	2483.50	52.2 AV	54.0	-1.8	1.45 H	360	54.2	-2.0
5	4914.00	47.0 PK	74.0	-27.0	1.51 H	250	43.7	3.3
6	4914.00	44.7 AV	54.0	-9.3	1.51 H	250	41.4	3.3
7	7371.00	50.1 PK	74.0	-23.9	1.35 H	333	40.8	9.3
8	7371.00	39.2 AV	54.0	-14.8	1.35 H	333	29.9	9.3
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	*2457.00	120.5 PK			1.00 V	172	122.5	-2.0
2	*2457.00	112.5 AV			1.00 V	172	114.5	-2.0
3	2483.50	63.8 PK	74.0	-10.2	1.00 V	172	65.8	-2.0
4	2483.50	52.7 AV	54.0	-1.3	1.00 V	172	54.7	-2.0
5	4914.00	47.0 PK	74.0	-27.0	1.51 V	241	43.7	3.3
6	4914.00	44.7 AV	54.0	-9.3	1.51 V	241	41.4	3.3
7	7371.00	50.4 PK	74.0	-23.6	2.05 V	335	41.1	9.3
8	7371.00	39.6 AV	54.0	-14.4	2.05 V	335	30.3	9.3

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	109.2 PK			1.52 H	348	111.2	-2.0
2	*2462.00	106.1 AV			1.52 H	348	108.1	-2.0
3	2483.50	62.2 PK	74.0	-11.8	1.52 H	348	64.2	-2.0
4	2483.50	52.6 AV	54.0	-1.4	1.52 H	348	54.6	-2.0
5	4924.00	40.5 PK	74.0	-33.5	1.32 H	48	37.2	3.3
6	4924.00	38.5 AV	54.0	-15.5	1.32 H	48	35.2	3.3
7	7386.00	46.3 PK	74.0	-27.7	1.44 H	205	36.9	9.4
8	7386.00	35.5 AV	54.0	-18.5	1.44 H	205	26.1	9.4
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	*2462.00	119.8 PK			1.16 V	170	121.8	-2.0
2	*2462.00	110.9 AV			1.16 V	170	112.9	-2.0
3	2483.50	63.8 PK	74.0	-10.2	1.16 V	170	65.8	-2.0
4	2483.50	52.9 AV	54.0	-1.1	1.16 V	170	54.9	-2.0
5	4924.00	39.8 PK	74.0	-34.2	1.34 V	33	36.5	3.3
6	4924.00	38.1 AV	54.0	-15.9	1.34 V	33	34.8	3.3
7	7386.00	46.4 PK	74.0	-27.6	1.39 V	202	37.0	9.4
8	7386.00	35.6 AV	54.0	-18.4	1.39 V	202	26.2	9.4

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) – 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	65.7 PK	74.0	-8.3	1.59 H	338	67.4	-1.7
2	2390.00	52.1 AV	54.0	-1.9	1.59 H	338	53.8	-1.7
3	*2412.00	109.8 PK			1.59 H	338	111.6	-1.8
4	*2412.00	100.1 AV			1.59 H	338	101.9	-1.8
5	4824.00	40.2 PK	74.0	-33.8	1.31 H	63	37.1	3.1
6	4824.00	38.3 AV	54.0	-15.7	1.31 H	63	35.2	3.1
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	2390.00	69.7 PK	74.0	-4.3	1.00 V	118	71.4	-1.7
2	2390.00	52.7 AV	54.0	-1.3	1.00 V	118	54.4	-1.7
3	*2412.00	114.3 PK			1.00 V	118	116.1	-1.8
4	*2412.00	103.4 AV			1.00 V	118	105.2	-1.8
5	4824.00	40.0 PK	74.0	-34.0	1.33 V	56	36.9	3.1
6	4824.00	38.1 AV	54.0	-15.9	1.33 V	56	35.0	3.1

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
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 2	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	65.4 PK	74.0	-8.6	1.57 H	338	67.1	-1.7
2	2390.00	52.1 AV	54.0	-1.9	1.57 H	338	53.8	-1.7
3	*2417.00	110.3 PK			1.57 H	338	112.2	-1.9
4	*2417.00	100.4 AV			1.57 H	338	102.3	-1.9
5	4834.00	40.0 PK	74.0	-34.0	1.36 H	57	36.9	3.1
6	4834.00	38.1 AV	54.0	-15.9	1.36 H	57	35.0	3.1
7	7251.00	46.6 PK	74.0	-27.4	1.46 H	215	37.4	9.2
8	7251.00	36.0 AV	54.0	-18.0	1.46 H	215	26.8	9.2
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	69.8 PK	74.0	-4.2	1.00 V	120	71.5	-1.7
2	2390.00	52.9 AV	54.0	-1.1	1.00 V	120	54.6	-1.7
3	*2417.00	115.1 PK			1.00 V	120	117.0	-1.9
4	*2417.00	104.3 AV			1.00 V	120	106.2	-1.9
5	4834.00	40.0 PK	74.0	-34.0	1.42 V	59	36.9	3.1
6	4834.00	38.4 AV	54.0	-15.6	1.42 V	59	35.3	3.1
7	7251.00	47.1 PK	74.0	-26.9	1.51 V	210	37.9	9.2
8	7251.00	36.5 AV	54.0	-17.5	1.51 V	210	27.3	9.2

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 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	65.7 PK	74.0	-8.3	1.53 H	343	67.4	-1.7
2	2390.00	52.4 AV	54.0	-1.6	1.53 H	343	54.1	-1.7
3	*2422.00	115.2 PK			1.53 H	343	117.2	-2.0
4	*2422.00	105.5 AV			1.53 H	343	107.5	-2.0
5	4844.00	39.5 PK	74.0	-34.5	1.26 H	50	36.4	3.1
6	4844.00	37.9 AV	54.0	-16.1	1.26 H	50	34.8	3.1
7	7266.00	46.5 PK	74.0	-27.5	1.34 H	192	37.3	9.2
8	7266.00	35.5 AV	54.0	-18.5	1.34 H	192	26.3	9.2
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	66.7 PK	74.0	-7.3	1.00 V	122	68.4	-1.7
2	2390.00	52.7 AV	54.0	-1.3	1.00 V	122	54.4	-1.7
3	*2422.00	119.6 PK			1.00 V	122	121.6	-2.0
4	*2422.00	109.0 AV			1.00 V	122	111.0	-2.0
5	4844.00	44.1 PK	74.0	-29.9	1.42 V	109	41.0	3.1
6	4844.00	41.2 AV	54.0	-12.8	1.42 V	109	38.1	3.1
7	7266.00	51.7 PK	74.0	-22.3	1.28 V	207	42.5	9.2
8	7266.00	40.4 AV	54.0	-13.6	1.28 V	207	31.2	9.2

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	66.8 PK	74.0	-7.2	1.50 H	353	68.5	-1.7
2	2390.00	52.2 AV	54.0	-1.8	1.50 H	353	53.9	-1.7
3	*2437.00	116.7 PK			1.50 H	353	118.8	-2.1
4	*2437.00	106.3 AV			1.50 H	353	108.4	-2.1
5	2483.50	63.9 PK	74.0	-10.1	1.50 H	353	65.9	-2.0
6	2483.50	47.5 AV	54.0	-6.5	1.50 H	353	49.5	-2.0
7	4874.00	47.7 PK	74.0	-26.3	1.48 H	125	44.5	3.2
8	4874.00	45.1 AV	54.0	-8.9	1.48 H	125	41.9	3.2
9	7311.00	51.2 PK	74.0	-22.8	1.25 H	215	42.0	9.2
10	7311.00	40.0 AV	54.0	-14.0	1.25 H	215	30.8	9.2

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	1.00 V	120	69.6	-1.7
2	2390.00	52.6 AV	54.0	-1.4	1.00 V	120	54.3	-1.7
3	*2437.00	119.9 PK			1.00 V	120	122.0	-2.1
4	*2437.00	109.4 AV			1.00 V	120	111.5	-2.1
5	2483.50	63.4 PK	74.0	-10.6	1.00 V	120	65.4	-2.0
6	2483.50	48.2 AV	54.0	-5.8	1.00 V	120	50.2	-2.0
7	4874.00	47.4 PK	74.0	-26.6	1.49 V	236	44.2	3.2
8	4874.00	45.0 AV	54.0	-9.0	1.49 V	236	41.8	3.2
9	7311.00	50.9 PK	74.0	-23.1	2.04 V	339	41.7	9.2
10	7311.00	39.8 AV	54.0	-14.2	2.04 V	339	30.6	9.2

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 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	114.0 PK			1.04 H	335	116.0	-2.0
2	*2452.00	103.5 AV			1.04 H	335	105.5	-2.0
3	2483.50	70.0 PK	74.0	-4.0	1.04 H	335	72.0	-2.0
4	2483.50	52.4 AV	54.0	-1.6	1.04 H	335	54.4	-2.0
5	4904.00	44.5 PK	74.0	-29.5	1.39 H	228	41.2	3.3
6	4904.00	41.5 AV	54.0	-12.5	1.39 H	228	38.2	3.3
7	7356.00	52.1 PK	74.0	-21.9	2.74 H	205	42.7	9.4
8	7356.00	41.0 AV	54.0	-13.0	2.74 H	205	31.6	9.4
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	*2452.00	117.4 PK			1.00 V	120	119.4	-2.0
2	*2452.00	107.1 AV			1.00 V	120	109.1	-2.0
3	2483.50	71.0 PK	74.0	-3.0	1.00 V	120	73.0	-2.0
4	2483.50	52.9 AV	54.0	-1.1	1.00 V	120	54.9	-2.0
5	4904.00	44.7 PK	74.0	-29.3	1.39 V	116	41.4	3.3
6	4904.00	41.6 AV	54.0	-12.4	1.39 V	116	38.3	3.3
7	7356.00	51.9 PK	74.0	-22.1	1.22 V	199	42.5	9.4
8	7356.00	40.8 AV	54.0	-13.2	1.22 V	199	31.4	9.4

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) – 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 10	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	*2457.00	113.4 PK			1.07 H	324	115.4	-2.0
2	*2457.00	102.9 AV			1.07 H	324	104.9	-2.0
3	2483.50	70.1 PK	74.0	-3.9	1.07 H	324	72.1	-2.0
4	2483.50	52.6 AV	54.0	-1.4	1.07 H	324	54.6	-2.0
5	4914.00	43.9 PK	74.0	-30.1	1.45 H	226	40.6	3.3
6	4914.00	41.1 AV	54.0	-12.9	1.45 H	226	37.8	3.3
7	7371.00	52.3 PK	74.0	-21.7	2.71 H	221	43.0	9.3
8	7371.00	41.0 AV	54.0	-13.0	2.71 H	221	31.7	9.3
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	*2457.00	116.8 PK			1.00 V	119	118.8	-2.0
2	*2457.00	106.7 AV			1.00 V	119	108.7	-2.0
3	2483.50	70.4 PK	74.0	-3.6	1.00 V	119	72.4	-2.0
4	2483.50	52.9 AV	54.0	-1.1	1.00 V	119	54.9	-2.0
5	4914.00	44.7 PK	74.0	-29.3	1.33 V	231	41.4	3.3
6	4914.00	41.5 AV	54.0	-12.5	1.33 V	231	38.2	3.3
7	7371.00	51.8 PK	74.0	-22.2	2.77 V	197	42.5	9.3
8	7371.00	40.5 AV	54.0	-13.5	2.77 V	197	31.2	9.3

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	115.5 PK			1.03 H	321	117.5	-2.0
2	*2462.00	105.1 AV			1.03 H	321	107.1	-2.0
3	2483.50	68.7 PK	74.0	-5.3	1.03 H	321	70.7	-2.0
4	2483.50	52.8 AV	54.0	-1.2	1.03 H	321	54.8	-2.0
5	4924.00	39.8 PK	74.0	-34.2	1.91 H	210	36.5	3.3
6	4924.00	37.2 AV	54.0	-16.8	1.91 H	210	33.9	3.3
7	7386.00	51.9 PK	74.0	-22.1	2.71 H	65	42.5	9.4
8	7386.00	40.6 AV	54.0	-13.4	2.71 H	65	31.2	9.4
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	*2462.00	116.3 PK			1.00 V	120	118.3	-2.0
2	*2462.00	105.6 AV			1.00 V	120	107.6	-2.0
3	2483.50	69.0 PK	74.0	-5.0	1.00 V	120	71.0	-2.0
4	2483.50	52.9 AV	54.0	-1.1	1.00 V	120	54.9	-2.0
5	4924.00	40.5 PK	74.0	-33.5	1.95 V	211	37.2	3.3
6	4924.00	37.7 AV	54.0	-16.3	1.95 V	211	34.4	3.3
7	7386.00	51.8 PK	74.0	-22.2	2.74 V	78	42.4	9.4
8	7386.00	40.8 AV	54.0	-13.2	2.74 V	78	31.4	9.4

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) – 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	70.2 PK	74.0	-3.8	1.17 H	111	71.9	-1.7
2	2390.00	52.6 AV	54.0	-1.4	1.17 H	111	54.3	-1.7
3	*2412.00	109.7 PK			1.17 H	111	111.5	-1.8
4	*2412.00	99.8 AV			1.17 H	111	101.6	-1.8
5	4824.00	40.9 PK	74.0	-33.1	2.07 H	31	37.8	3.1
6	4824.00	38.5 AV	54.0	-15.5	2.07 H	31	35.4	3.1
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	2390.00	70.5 PK	74.0	-3.5	1.00 V	118	72.2	-1.7
2	2390.00	52.9 AV	54.0	-1.1	1.00 V	118	54.6	-1.7
3	*2412.00	113.4 PK			1.00 V	118	115.2	-1.8
4	*2412.00	103.0 AV			1.00 V	118	104.8	-1.8
5	4824.00	40.7 PK	74.0	-33.3	2.01 V	33	37.6	3.1
6	4824.00	38.0 AV	54.0	-16.0	2.01 V	33	34.9	3.1

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
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 2	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	1.42 H	332	70.9	-1.7
2	2390.00	52.2 AV	54.0	-1.8	1.42 H	332	53.9	-1.7
3	*2417.00	111.2 PK			1.42 H	332	113.1	-1.9
4	*2417.00	100.2 AV			1.42 H	332	102.1	-1.9
5	4834.00	40.7 PK	74.0	-33.3	1.89 H	207	37.6	3.1
6	4834.00	38.2 AV	54.0	-15.8	1.89 H	207	35.1	3.1
7	7251.00	52.0 PK	74.0	-22.0	2.79 H	215	42.8	9.2
8	7251.00	41.3 AV	54.0	-12.7	2.79 H	215	32.1	9.2
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	70.3 PK	74.0	-3.7	1.02 V	116	72.0	-1.7
2	2390.00	52.9 AV	54.0	-1.1	1.02 V	116	54.6	-1.7
3	*2417.00	114.1 PK			1.02 V	116	116.0	-1.9
4	*2417.00	103.6 AV			1.02 V	116	105.5	-1.9
5	4834.00	40.7 PK	74.0	-33.3	1.89 V	201	37.6	3.1
6	4834.00	38.0 AV	54.0	-16.0	1.89 V	201	34.9	3.1
7	7251.00	52.2 PK	74.0	-21.8	2.74 V	77	43.0	9.2
8	7251.00	41.2 AV	54.0	-12.8	2.74 V	77	32.0	9.2

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 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	68.4 PK	74.0	-5.6	1.24 H	119	70.1	-1.7
2	2390.00	52.3 AV	54.0	-1.7	1.24 H	119	54.0	-1.7
3	*2422.00	112.6 PK			1.24 H	119	114.6	-2.0
4	*2422.00	102.5 AV			1.24 H	119	104.5	-2.0
5	4844.00	44.6 PK	74.0	-29.4	1.41 H	110	41.5	3.1
6	4844.00	41.3 AV	54.0	-12.7	1.41 H	110	38.2	3.1
7	7266.00	51.8 PK	74.0	-22.2	1.23 H	195	42.6	9.2
8	7266.00	40.8 AV	54.0	-13.2	1.23 H	195	31.6	9.2
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	70.3 PK	74.0	-3.7	1.01 V	88	72.0	-1.7
2	2390.00	52.8 AV	54.0	-1.2	1.01 V	88	54.5	-1.7
3	*2422.00	117.9 PK			1.01 V	88	119.9	-2.0
4	*2422.00	106.6 AV			1.01 V	88	108.6	-2.0
5	4844.00	45.1 PK	74.0	-28.9	1.32 V	235	42.0	3.1
6	4844.00	42.0 AV	54.0	-12.0	1.32 V	235	38.9	3.1
7	7266.00	51.8 PK	74.0	-22.2	2.77 V	33	42.6	9.2
8	7266.00	40.3 AV	54.0	-13.7	2.77 V	33	31.1	9.2

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 4	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	68.9 PK	74.0	-5.1	1.01 H	332	70.6	-1.7
2	2390.00	52.7 AV	54.0	-1.3	1.01 H	332	54.4	-1.7
3	*2427.00	114.0 PK			1.01 H	332	116.0	-2.0
4	*2427.00	103.8 AV			1.01 H	332	105.8	-2.0
5	4854.00	44.8 PK	74.0	-29.2	1.43 H	240	41.7	3.1
6	4854.00	42.0 AV	54.0	-12.0	1.43 H	240	38.9	3.1
7	7281.00	52.3 PK	74.0	-21.7	2.77 H	190	43.0	9.3
8	7281.00	41.4 AV	54.0	-12.6	2.77 H	190	32.1	9.3
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	70.2 PK	74.0	-3.8	1.01 V	118	71.9	-1.7
2	2390.00	52.8 AV	54.0	-1.2	1.01 V	118	54.5	-1.7
3	*2427.00	118.3 PK			1.01 V	118	120.3	-2.0
4	*2427.00	107.8 AV			1.01 V	118	109.8	-2.0
5	4854.00	45.1 PK	74.0	-28.9	1.45 V	245	42.0	3.1
6	4854.00	42.1 AV	54.0	-11.9	1.45 V	245	39.0	3.1
7	7281.00	51.7 PK	74.0	-22.3	2.35 V	187	42.4	9.3
8	7281.00	40.8 AV	54.0	-13.2	2.35 V	187	31.5	9.3

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	68.5 PK	74.0	-5.5	1.09 H	318	70.2	-1.7
2	2390.00	52.6 AV	54.0	-1.4	1.09 H	318	54.3	-1.7
3	*2437.00	115.8 PK			1.09 H	318	117.9	-2.1
4	*2437.00	105.3 AV			1.09 H	318	107.4	-2.1
5	2483.50	65.8 PK	74.0	-8.2	1.09 H	318	67.8	-2.0
6	2483.50	47.5 AV	54.0	-6.5	1.09 H	318	49.5	-2.0
7	4874.00	39.8 PK	74.0	-34.2	1.85 H	202	36.6	3.2
8	4874.00	37.2 AV	54.0	-16.8	1.85 H	202	34.0	3.2
9	7311.00	51.8 PK	74.0	-22.2	2.69 H	60	42.6	9.2
10	7311.00	40.3 AV	54.0	-13.7	2.69 H	60	31.1	9.2

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	70.6 PK	74.0	-3.4	1.00 V	116	72.3	-1.7
2	2390.00	52.9 AV	54.0	-1.1	1.00 V	116	54.6	-1.7
3	*2437.00	119.6 PK			1.00 V	116	121.7	-2.1
4	*2437.00	109.5 AV			1.00 V	116	111.6	-2.1
5	2483.50	66.4 PK	74.0	-7.6	1.00 V	116	68.4	-2.0
6	2483.50	48.7 AV	54.0	-5.3	1.00 V	116	50.7	-2.0
7	4874.00	46.8 PK	74.0	-27.2	1.13 V	250	43.6	3.2
8	4874.00	44.7 AV	54.0	-9.3	1.13 V	250	41.5	3.2
9	7311.00	51.0 PK	74.0	-23.0	2.02 V	349	41.8	9.2
10	7311.00	39.7 AV	54.0	-14.3	2.02 V	349	30.5	9.2

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 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	113.6 PK			1.04 H	341	115.6	-2.0
2	*2452.00	103.4 AV			1.04 H	341	105.4	-2.0
3	2483.50	68.7 PK	74.0	-5.3	1.04 H	341	70.7	-2.0
4	2483.50	51.0 AV	54.0	-3.0	1.04 H	341	53.0	-2.0
5	4904.00	44.3 PK	74.0	-29.7	1.45 H	252	41.0	3.3
6	4904.00	41.6 AV	54.0	-12.4	1.45 H	252	38.3	3.3
7	7356.00	52.6 PK	74.0	-21.4	1.35 H	305	43.2	9.4
8	7356.00	41.8 AV	54.0	-12.2	1.35 H	305	32.4	9.4
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	*2452.00	118.9 PK			1.02 V	280	120.9	-2.0
2	*2452.00	107.8 AV			1.02 V	280	109.8	-2.0
3	2483.50	70.4 PK	74.0	-3.6	1.02 V	280	72.4	-2.0
4	2483.50	52.6 AV	54.0	-1.4	1.02 V	280	54.6	-2.0
5	4904.00	45.5 PK	74.0	-28.5	1.45 V	210	42.2	3.3
6	4904.00	42.6 AV	54.0	-11.4	1.45 V	210	39.3	3.3
7	7356.00	51.7 PK	74.0	-22.3	2.31 V	102	42.3	9.4
8	7356.00	40.8 AV	54.0	-13.2	2.31 V	102	31.4	9.4

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) – 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 10	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	*2457.00	112.2 PK			1.27 H	130	114.2	-2.0
2	*2457.00	102.4 AV			1.27 H	130	104.4	-2.0
3	2483.50	66.4 PK	74.0	-7.6	1.27 H	130	68.4	-2.0
4	2483.50	51.8 AV	54.0	-2.2	1.27 H	130	53.8	-2.0
5	4914.00	44.8 PK	74.0	-29.2	1.37 H	98	41.5	3.3
6	4914.00	41.6 AV	54.0	-12.4	1.37 H	98	38.3	3.3
7	7371.00	52.1 PK	74.0	-21.9	1.23 H	184	42.8	9.3
8	7371.00	40.9 AV	54.0	-13.1	1.23 H	184	31.6	9.3
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	*2457.00	116.5 PK			1.02 V	281	118.5	-2.0
2	*2457.00	105.8 AV			1.02 V	281	107.8	-2.0
3	2483.50	67.0 PK	74.0	-7.0	1.02 V	281	69.0	-2.0
4	2483.50	52.8 AV	54.0	-1.2	1.02 V	281	54.8	-2.0
5	4914.00	45.1 PK	74.0	-28.9	1.33 V	228	41.8	3.3
6	4914.00	42.0 AV	54.0	-12.0	1.33 V	228	38.7	3.3
7	7371.00	52.1 PK	74.0	-21.9	2.76 V	29	42.8	9.3
8	7371.00	40.6 AV	54.0	-13.4	2.76 V	29	31.3	9.3

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	110.2 PK			1.02 H	346	112.2	-2.0
2	*2462.00	99.6 AV			1.02 H	346	101.6	-2.0
3	2483.50	66.6 PK	74.0	-7.4	1.02 H	346	68.6	-2.0
4	2483.50	51.2 AV	54.0	-2.8	1.02 H	346	53.2	-2.0
5	4924.00	39.9 PK	74.0	-34.1	1.42 H	238	36.6	3.3
6	4924.00	37.6 AV	54.0	-16.4	1.42 H	238	34.3	3.3
7	7386.00	52.6 PK	74.0	-21.4	1.37 H	319	43.2	9.4
8	7386.00	40.2 AV	54.0	-13.8	1.37 H	319	30.8	9.4
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	*2462.00	114.2 PK			2.12 V	113	116.2	-2.0
2	*2462.00	102.5 AV			2.12 V	113	104.5	-2.0
3	2483.50	67.8 PK	74.0	-6.2	2.12 V	113	69.8	-2.0
4	2483.50	52.8 AV	54.0	-1.2	2.12 V	113	54.8	-2.0
5	4924.00	40.5 PK	74.0	-33.5	1.98 V	43	37.2	3.3
6	4924.00	37.9 AV	54.0	-16.1	1.98 V	43	34.6	3.3
7	7386.00	51.8 PK	74.0	-22.2	1.24 V	105	42.4	9.4
8	7386.00	39.7 AV	54.0	-14.3	1.24 V	105	30.3	9.4

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) – 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	64.6 PK	74.0	-9.4	1.04 H	297	66.3	-1.7
2	2390.00	51.8 AV	54.0	-2.2	1.04 H	297	53.5	-1.7
3	*2422.00	104.9 PK			1.04 H	297	106.9	-2.0
4	*2422.00	94.5 AV			1.04 H	297	96.5	-2.0
5	4844.00	40.6 PK	74.0	-33.4	1.86 H	217	37.5	3.1
6	4844.00	38.2 AV	54.0	-15.8	1.86 H	217	35.1	3.1
7	7266.00	51.6 PK	74.0	-22.4	2.67 H	108	42.4	9.2
8	7266.00	39.8 AV	54.0	-14.2	2.67 H	108	30.6	9.2
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	68.9 PK	74.0	-5.1	1.03 V	3	70.6	-1.7
2	2390.00	52.8 AV	54.0	-1.2	1.03 V	3	54.5	-1.7
3	*2422.00	109.3 PK			1.03 V	3	111.3	-2.0
4	*2422.00	98.7 AV			1.03 V	3	100.7	-2.0
5	4844.00	40.3 PK	74.0	-33.7	2.04 V	298	37.2	3.1
6	4844.00	36.7 AV	54.0	-17.3	2.04 V	298	33.6	3.1
7	7266.00	52.5 PK	74.0	-21.5	1.22 V	99	43.3	9.2
8	7266.00	40.1 AV	54.0	-13.9	1.22 V	99	30.9	9.2

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	64.5 PK	74.0	-9.5	1.06 H	309	66.2	-1.7
2	2390.00	51.9 AV	54.0	-2.1	1.06 H	309	53.6	-1.7
3	*2437.00	105.3 PK			1.06 H	309	107.4	-2.1
4	*2437.00	95.4 AV			1.06 H	309	97.5	-2.1
5	2483.50	60.9 PK	74.0	-13.1	1.06 H	309	62.9	-2.0
6	2483.50	47.5 AV	54.0	-6.5	1.06 H	309	49.5	-2.0
7	4874.00	40.4 PK	74.0	-33.6	1.84 H	202	37.2	3.2
8	4874.00	38.3 AV	54.0	-15.7	1.84 H	202	35.1	3.2
9	7311.00	51.4 PK	74.0	-22.6	2.69 H	52	42.2	9.2
10	7311.00	39.5 AV	54.0	-14.5	2.69 H	52	30.3	9.2

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	65.0 PK	74.0	-9.0	1.02 V	114	66.7	-1.7
2	2390.00	52.5 AV	54.0	-1.5	1.02 V	114	54.2	-1.7
3	*2437.00	109.5 PK			1.02 V	114	111.6	-2.1
4	*2437.00	99.5 AV			1.02 V	114	101.6	-2.1
5	2483.50	61.3 PK	74.0	-12.7	1.02 V	114	63.3	-2.0
6	2483.50	48.5 AV	54.0	-5.5	1.02 V	114	50.5	-2.0
7	4874.00	40.2 PK	74.0	-33.8	1.96 V	28	37.0	3.2
8	4874.00	37.8 AV	54.0	-16.2	1.96 V	28	34.6	3.2
9	7311.00	52.0 PK	74.0	-22.0	1.22 V	116	42.8	9.2
10	7311.00	39.9 AV	54.0	-14.1	1.22 V	116	30.7	9.2

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 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	105.2 PK			1.07 H	298	107.2	-2.0
2	*2452.00	94.8 AV			1.07 H	298	96.8	-2.0
3	2483.50	64.9 PK	74.0	-9.1	1.07 H	298	66.9	-2.0
4	2483.50	51.9 AV	54.0	-2.1	1.07 H	298	53.9	-2.0
5	4904.00	40.0 PK	74.0	-34.0	1.87 H	228	36.7	3.3
6	4904.00	37.9 AV	54.0	-16.1	1.87 H	228	34.6	3.3
7	7356.00	51.8 PK	74.0	-22.2	2.67 H	98	42.4	9.4
8	7356.00	40.2 AV	54.0	-13.8	2.67 H	98	30.8	9.4
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	*2452.00	109.2 PK			1.04 V	116	111.2	-2.0
2	*2452.00	99.0 AV			1.04 V	116	101.0	-2.0
3	2483.50	66.2 PK	74.0	-7.8	1.04 V	116	68.2	-2.0
4	2483.50	52.7 AV	54.0	-1.3	1.04 V	116	54.7	-2.0
5	4904.00	40.8 PK	74.0	-33.2	2.03 V	225	37.5	3.3
6	4904.00	36.9 AV	54.0	-17.1	2.03 V	225	33.6	3.3
7	7356.00	52.0 PK	74.0	-22.0	1.95 V	84	42.6	9.4
8	7356.00	39.6 AV	54.0	-14.4	1.95 V	84	30.2	9.4

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) – 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.

Below 1GHz Data:

802.11g

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	157.85	33.2 QP	43.5	-10.3	2.00 H	90	41.1	-7.9
2	296.73	37.9 QP	46.0	-8.1	1.00 H	296	45.3	-7.4
3	395.67	38.7 QP	46.0	-7.3	1.00 H	329	43.8	-5.1
4	593.45	35.6 QP	46.0	-10.4	1.50 H	191	36.3	-0.7
5	692.34	41.0 QP	46.0	-5.0	1.00 H	228	40.2	0.8
6	890.22	37.1 QP	46.0	-8.9	1.50 H	252	33.7	3.4
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	159.23	32.9 QP	43.5	-10.6	1.00 V	119	40.9	-8.0
2	296.73	31.1 QP	46.0	-14.9	2.00 V	360	38.5	-7.4
3	395.64	39.2 QP	46.0	-6.8	1.50 V	258	44.3	-5.1
4	593.45	33.0 QP	46.0	-13.0	1.00 V	128	33.7	-0.7
5	692.34	36.0 QP	46.0	-10.0	1.00 V	55	35.2	0.8
6	890.22	34.3 QP	46.0	-11.7	1.00 V	359	30.9	3.4

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) – 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.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Nov. 01, 2017	Oct. 31, 2018
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Nov. 15, 2017	Nov. 14, 2018
Line-Impedance Stabilization Network (for Peripheral) R&S	ENV216	100072	June 03, 2017	June 02, 2018
50 ohms Terminator	N/A	EMC-02	Sep. 22, 2017	Sep. 21, 2018
RF Cable	5D-FB	COCCAB-001	Sep. 29, 2017	Sep. 28, 2018
Fixed attenuator EMEC	STI02-2200-10	003	Mar. 16, 2018	Mar. 15, 2019
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Mar. 17, 2018

4.2.3 Test Procedures

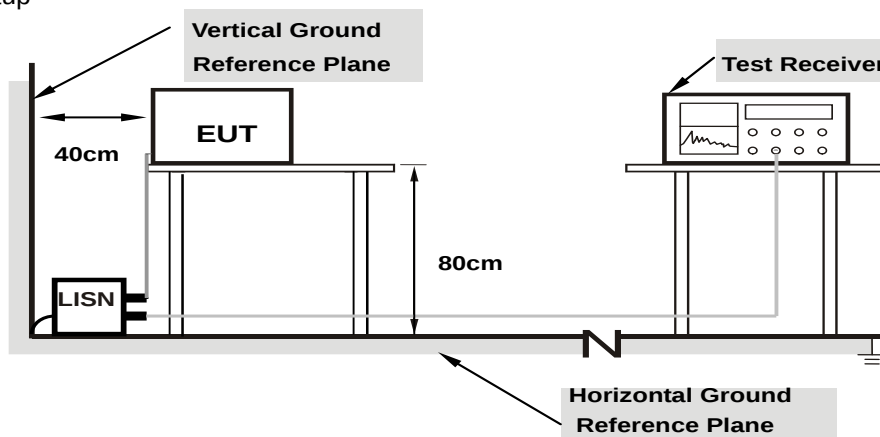
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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.

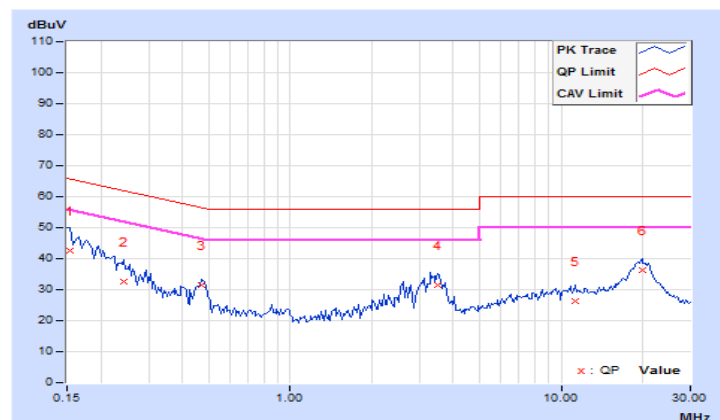
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15391	10.14	32.63	17.03	42.77	27.17	65.79	55.79	-23.02	-28.62
2	0.24375	10.16	22.45	13.66	32.61	23.82	61.97	51.97	-29.36	-28.15
3	0.47031	10.21	21.24	17.38	31.45	27.59	56.51	46.51	-25.06	-18.92
4	3.50391	10.41	21.17	9.79	31.58	20.20	56.00	46.00	-24.42	-25.80
5	11.30859	10.90	15.28	10.10	26.18	21.00	60.00	50.00	-33.82	-29.00
6	19.85938	11.50	24.76	18.93	36.26	30.43	60.00	50.00	-23.74	-19.57

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.

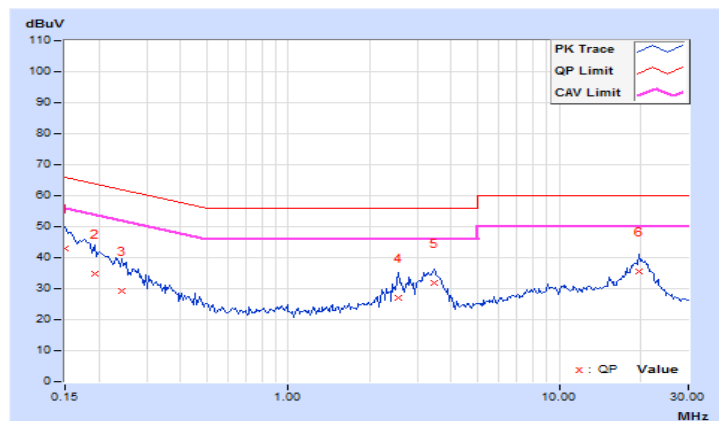


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
-------	-------------	-------------------	--------------------------------

No	Freq. [MHz]	Corr.	Reading Value		Emission Level		Limit		Margin	
		Factor	[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
		(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.05	33.02	18.01	43.07	28.06	66.00	56.00	-22.93	-27.94
2	0.19297	10.05	24.68	9.79	34.73	19.84	63.91	53.91	-29.18	-34.07
3	0.24375	10.06	19.31	6.64	29.37	16.70	61.97	51.97	-32.60	-35.27
4	2.53516	10.21	16.98	7.85	27.19	18.06	56.00	46.00	-28.81	-27.94
5	3.45313	10.26	21.47	10.28	31.73	20.54	56.00	46.00	-24.27	-25.46
6	19.81641	11.28	24.40	18.49	35.68	29.77	60.00	50.00	-24.32	-20.23

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.

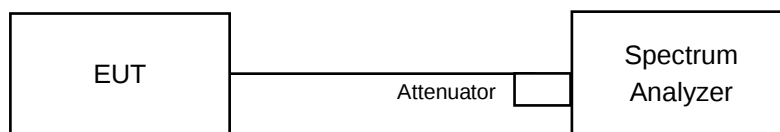


4.3 6dB Bandwidth Measurement

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 = Peak.
- 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 specific frequencies individually.

4.3.7 Test Result

802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	7.59	0.5	PASS
2	2417	8.08	0.5	PASS
3	2422	9.02	0.5	PASS
6	2437	8.13	0.5	PASS
9	2452	8.08	0.5	PASS
10	2457	7.12	0.5	PASS
11	2462	8.07	0.5	PASS

802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	16.37	16.44	16.42	16.42	0.5	PASS
2	2417	16.41	16.40	16.40	16.41	0.5	PASS
3	2422	16.37	16.38	16.37	16.38	0.5	PASS
6	2437	16.34	16.36	16.37	16.37	0.5	PASS
9	2452	16.37	16.39	16.38	16.40	0.5	PASS
10	2457	16.35	16.40	16.39	16.41	0.5	PASS
11	2462	16.36	16.38	16.37	16.39	0.5	PASS

802.11n (HT20)

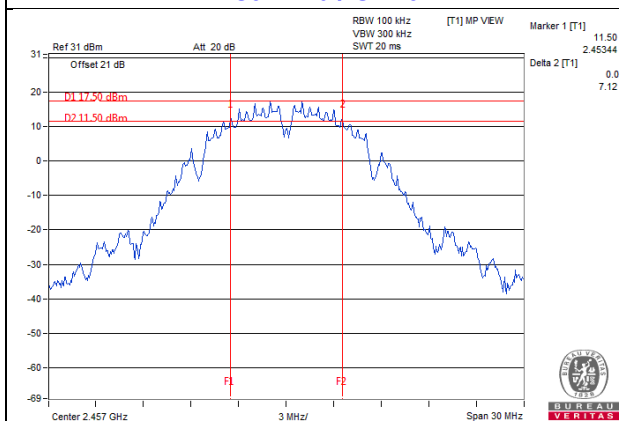
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
1	2412	17.38	17.61	17.60	17.64	0.5	PASS
2	2417	17.58	17.64	17.59	17.63	0.5	PASS
3	2422	17.10	17.66	17.66	17.64	0.5	PASS
4	2427	17.36	17.65	17.38	17.63	0.5	PASS
6	2437	17.32	17.62	17.64	17.63	0.5	PASS
9	2452	17.20	17.39	17.60	17.59	0.5	PASS
10	2457	17.55	17.59	17.65	17.63	0.5	PASS
11	2462	16.98	17.61	17.37	17.64	0.5	PASS

802.11n (HT40)

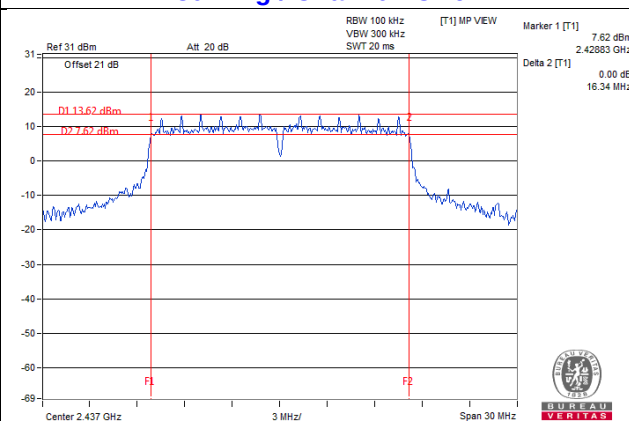
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
3	2422	35.69	35.65	36.05	36.02	0.5	Pass
6	2437	35.61	35.80	36.05	35.96	0.5	Pass
9	2452	35.66	35.75	35.82	35.93	0.5	Pass

Spectrum Plot of Worst Value

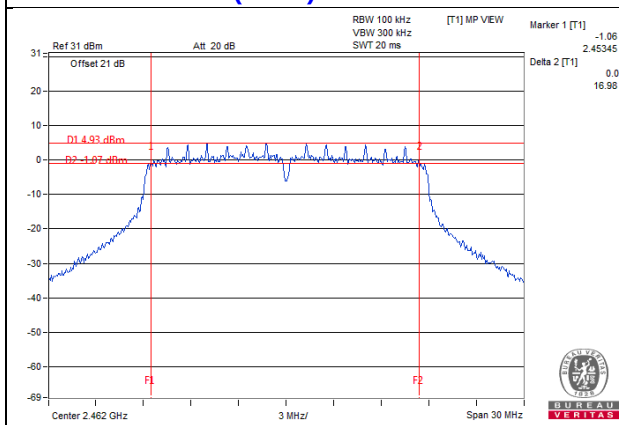
802.11b / CH10



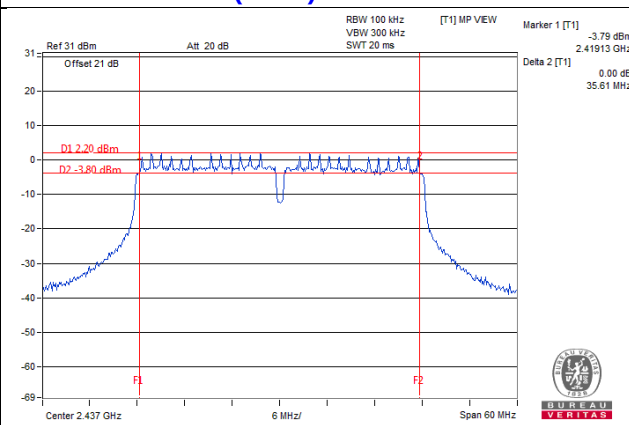
802.11g / Chain 0 : CH6



802.11n (HT20) / Chain 0 : CH11

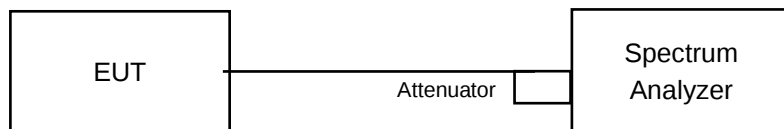


802.11n (HT40) / Chain 0 : CH6



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Deviation from Test Standard

No deviation.

4.4.5 EUT Operating Conditions

Same as Item 4.3.6.

4.4.6 Test Results

802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	2412	10.44
2	2417	10.80
3	2422	13.32
6	2437	13.32
9	2452	13.08
10	2457	11.88
11	2462	10.80

802.11g

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
1	2412	16.80	16.80	16.92	16.92
2	2417	16.80	16.80	16.68	16.92
3	2422	16.68	16.92	16.92	16.80
6	2437	17.04	17.28	17.04	17.04
9	2452	16.68	16.80	16.80	16.68
10	2457	16.80	16.92	16.68	16.92
11	2462	16.68	16.92	16.80	16.80

802.11n (HT20)

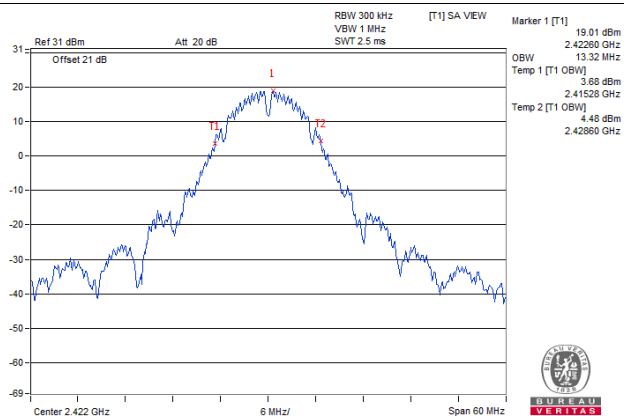
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
1	2412	18.12	18.00	17.88	17.88
2	2417	18.12	18.00	17.88	17.88
3	2422	18.00	18.00	18.00	17.88
4	2427	18.00	18.12	17.88	18.00
6	2437	18.24	18.24	18.12	18.24
9	2452	18.12	18.00	17.88	17.88
10	2457	18.00	18.00	17.88	17.88
11	2462	17.88	18.00	17.88	18.00

802.11n (HT40)

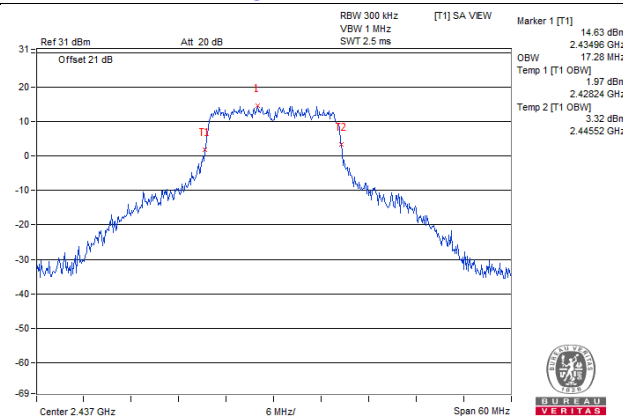
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
3	2422	37.20	36.72	36.96	36.72
6	2437	37.20	36.96	36.72	36.72
9	2452	37.20	36.96	36.96	36.72

Spectrum Plot of Worst Value

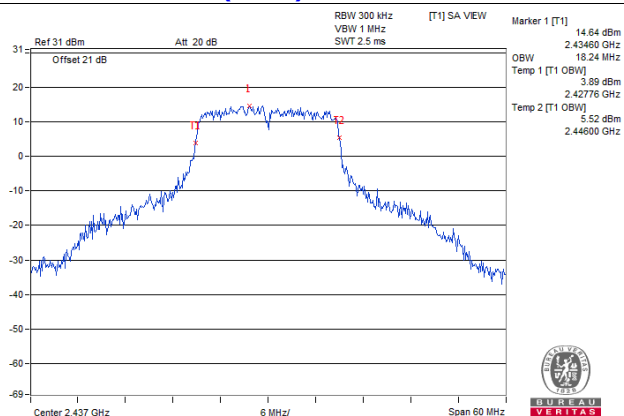
802.11b / CH3



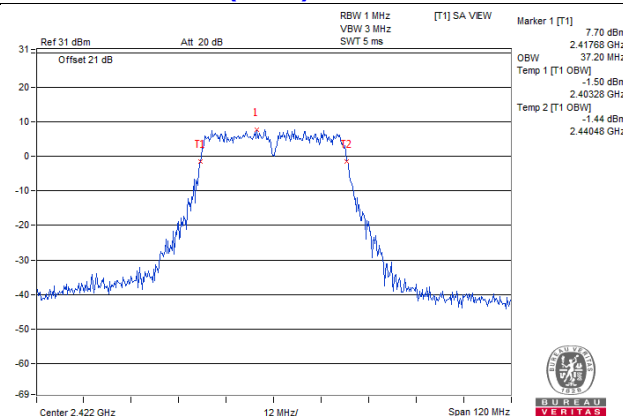
802.11g / Chain 1 : CH6



802.11n (HT20) / Chain 0 : CH6



802.11n (HT40) / Chain 0 : CH3



4.5 Conducted Output Power Measurement

4.5.1 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,

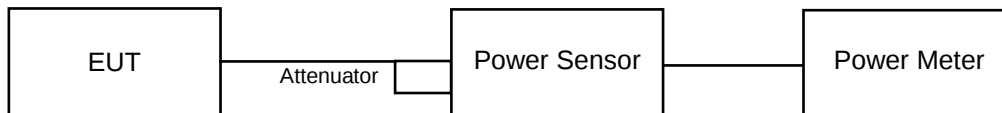
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value..

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as Item 4.3.6.

4.5.7 Test Results

802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass/Fail
1	2412	207.491	23.17	30.00	Pass
2	2417	267.917	24.28	30.00	Pass
3	2422	623.735	27.95	30.00	Pass
6	2437	663.743	28.22	30.00	Pass
9	2452	638.263	28.05	30.00	Pass
10	2457	355.631	25.51	30.00	Pass
11	2462	209.894	23.22	30.00	Pass

CDD Mode

802.11g

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	17.61	17.01	16.68	17.02	204.82	23.11	30.00	Pass
2	2417	18.21	17.87	17.77	17.52	243.792	23.87	30.00	Pass
3	2422	22.43	22.11	21.91	21.85	645.888	28.10	30.00	Pass
6	2437	24.24	23.92	23.73	23.89	993.019	29.97	30.00	Pass
9	2452	21.74	21.42	21.03	20.98	540.034	27.32	30.00	Pass
10	2457	21.22	20.96	20.51	20.47	481.061	26.82	30.00	Pass
11	2462	19.77	19.43	19.13	19.05	344.741	25.37	30.00	Pass

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	17.12	16.47	16.40	16.54	184.618	22.66	30.00	Pass
2	2417	17.52	16.96	16.78	16.85	202.213	23.06	30.00	Pass
3	2422	20.41	19.93	19.88	19.78	400.637	26.03	30.00	Pass
4	2427	22.23	21.87	21.67	21.59	612.029	27.87	30.00	Pass
6	2437	24.01	23.74	23.40	23.46	928.956	29.68	30.00	Pass
9	2452	22.31	21.78	21.59	21.52	606.995	27.83	30.00	Pass
10	2457	19.92	19.45	19.42	19.38	360.474	25.57	30.00	Pass
11	2462	16.13	15.46	15.43	15.54	146.9	21.67	30.00	Pass

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
3	2422	14.56	14.27	14.02	14.23	107.026	20.29	30.00	Pass
6	2437	16.11	15.67	15.26	15.24	144.724	21.61	30.00	Pass
9	2452	14.49	14.12	13.76	13.87	102.088	20.09	30.00	Pass

Beamforming Mode

802.11n (HT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
1	2412	17.12	16.47	16.40	16.54	184.618	22.66	26.18	Pass
2	2417	17.52	16.96	16.78	16.85	202.213	23.06	26.18	Pass
3	2422	20.41	19.93	19.88	19.78	400.637	26.03	26.18	Pass
4	2427	20.46	19.98	19.76	19.84	401.721	26.04	26.18	Pass
6	2437	20.42	19.89	19.68	19.88	397.825	26.00	26.18	Pass
9	2452	20.39	19.94	19.72	19.82	397.72	26.00	26.18	Pass
10	2457	19.92	19.45	19.42	19.38	360.474	25.57	26.18	Pass
11	2462	16.13	15.46	15.43	15.54	146.9	21.67	26.18	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 9.82\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (9.82 - 6) = 26.18\text{dBm}$.

802.11n (HT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
3	2422	14.56	14.27	14.02	14.23	107.026	20.29	26.18	Pass
6	2437	16.11	15.67	15.26	15.24	144.724	21.61	26.18	Pass
9	2452	14.49	14.12	13.76	13.87	102.088	20.09	26.18	Pass

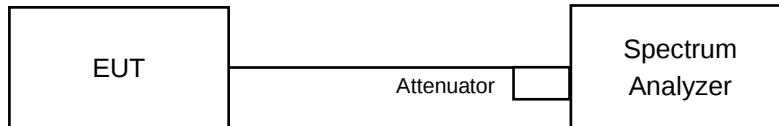
Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 9.82\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (9.82 - 6) = 26.18\text{dBm}$.

4.6 Power Spectral Density Measurement

4.6.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

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

For 802.11b, 802.11g

- 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 $\geq 2 \times \text{span/RBW}$.
- 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 802.11n (HT20), 802.11n (HT40)

- 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 $\geq 2 \times \text{span/RBW}$.
- 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.

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

802.11b

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
1	2412	-5.32	8	Pass
2	2417	-4.29	8	Pass
3	2422	-1.77	8	Pass
6	2437	-1.37	8	Pass
9	2452	-2.07	8	Pass
10	2457	-3.47	8	Pass
11	2462	-5.49	8	Pass

802.11g

TX chain	Channel	Freq. (MHz)	PSD (dBm/3kHz)	10 log (N=4) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-14.34	6.02	-8.32	4.18	Pass
	2	2417	-15.08	6.02	-9.06	4.18	Pass
	3	2422	-9.40	6.02	-3.38	4.18	Pass
	6	2437	-7.35	6.02	-1.33	4.18	Pass
	9	2452	-10.55	6.02	-4.53	4.18	Pass
	10	2457	-10.96	6.02	-4.94	4.18	Pass
	11	2462	-12.15	6.02	-6.13	4.18	Pass
1	1	2412	-14.97	6.02	-8.95	4.18	Pass
	2	2417	-14.84	6.02	-8.82	4.18	Pass
	3	2422	-9.67	6.02	-3.65	4.18	Pass
	6	2437	-8.80	6.02	-2.78	4.18	Pass
	9	2452	-11.27	6.02	-5.25	4.18	Pass
	10	2457	-11.69	6.02	-5.67	4.18	Pass
	11	2462	-13.34	6.02	-7.32	4.18	Pass
2	1	2412	-15.10	6.02	-9.08	4.18	Pass
	2	2417	-13.30	6.02	-7.28	4.18	Pass
	3	2422	-10.18	6.02	-4.16	4.18	Pass
	6	2437	-7.76	6.02	-1.74	4.18	Pass
	9	2452	-9.88	6.02	-3.86	4.18	Pass
	10	2457	-11.54	6.02	-5.52	4.18	Pass
	11	2462	-12.85	6.02	-6.83	4.18	Pass
3	1	2412	-14.69	6.02	-8.67	4.18	Pass
	2	2417	-14.36	6.02	-8.34	4.18	Pass
	3	2422	-10.51	6.02	-4.49	4.18	Pass
	6	2437	-7.82	6.02	-1.80	4.18	Pass
	9	2452	-10.92	6.02	-4.90	4.18	Pass
	10	2457	-11.33	6.02	-5.31	4.18	Pass
	11	2462	-12.77	6.02	-6.75	4.18	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 9.82\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (9.82 - 6) = 4.18\text{dBm}$.

802.11n (HT20)

TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/3kHz)	10 log (N=4) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	1	2412	-15.05	6.02	0.09	-8.94	4.18	Pass
	2	2417	-14.58	6.02	0.09	-8.47	4.18	Pass
	3	2422	-12.36	6.02	0.09	-6.25	4.18	Pass
	4	2427	-10.46	6.02	0.09	-4.35	4.18	Pass
	6	2437	-8.14	6.02	0.09	-2.03	4.18	Pass
	9	2452	-9.79	6.02	0.09	-3.68	4.18	Pass
	10	2457	-12.55	6.02	0.09	-6.44	4.18	Pass
	11	2462	-16.67	6.02	0.09	-10.56	4.18	Pass
1	1	2412	-15.55	6.02	0.09	-9.44	4.18	Pass
	2	2417	-15.42	6.02	0.09	-9.31	4.18	Pass
	3	2422	-12.72	6.02	0.09	-6.61	4.18	Pass
	4	2427	-10.91	6.02	0.09	-4.80	4.18	Pass
	6	2437	-9.69	6.02	0.09	-3.58	4.18	Pass
	9	2452	-10.81	6.02	0.09	-4.70	4.18	Pass
	10	2457	-12.97	6.02	0.09	-6.86	4.18	Pass
	11	2462	-15.36	6.02	0.09	-9.25	4.18	Pass
2	1	2412	-15.67	6.02	0.09	-9.56	4.18	Pass
	2	2417	-15.51	6.02	0.09	-9.40	4.18	Pass
	3	2422	-12.28	6.02	0.09	-6.17	4.18	Pass
	4	2427	-10.80	6.02	0.09	-4.69	4.18	Pass
	6	2437	-8.53	6.02	0.09	-2.42	4.18	Pass
	9	2452	-11.06	6.02	0.09	-4.95	4.18	Pass
	10	2457	-13.03	6.02	0.09	-6.92	4.18	Pass
	11	2462	-16.55	6.02	0.09	-10.44	4.18	Pass
3	1	2412	-16.63	6.02	0.09	-10.52	4.18	Pass
	2	2417	-15.35	6.02	0.09	-9.24	4.18	Pass
	3	2422	-11.51	6.02	0.09	-5.40	4.18	Pass
	4	2427	-10.96	6.02	0.09	-4.85	4.18	Pass
	6	2437	-7.94	6.02	0.09	-1.83	4.18	Pass
	9	2452	-11.13	6.02	0.09	-5.02	4.18	Pass
	10	2457	-12.51	6.02	0.09	-6.40	4.18	Pass
	11	2462	-16.88	6.02	0.09	-10.77	4.18	Pass

- Note:** 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 9.82\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (9.82 - 6) = 4.18\text{dBm}$.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

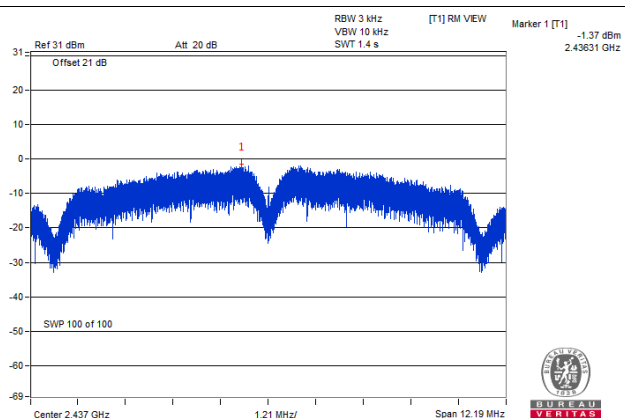
TX chain	Channel	Freq. (MHz)	PSD W/O Duty Factor (dBm/3kHz)	10 log (N=4) dB	Duty Factor (dB)	TOTAL PSD With Duty Factor (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	3	2422	-20.85	6.02	0.17	-14.66	4.18	Pass
	6	2437	-19.02	6.02	0.17	-12.83	4.18	Pass
	9	2452	-20.84	6.02	0.17	-14.65	4.18	Pass
1	3	2422	-20.88	6.02	0.17	-14.69	4.18	Pass
	6	2437	-19.29	6.02	0.17	-13.10	4.18	Pass
	9	2452	-21.37	6.02	0.17	-15.18	4.18	Pass
2	3	2422	-20.65	6.02	0.17	-14.46	4.18	Pass
	6	2437	-20.07	6.02	0.17	-13.88	4.18	Pass
	9	2452	-20.82	6.02	0.17	-14.63	4.18	Pass
3	3	2422	-21.04	6.02	0.17	-14.85	4.18	Pass
	6	2437	-19.46	6.02	0.17	-13.27	4.18	Pass
	9	2452	-21.93	6.02	0.17	-15.74	4.18	Pass

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 9.82\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $8 - (9.82 - 6) = 4.18\text{dBm}$.

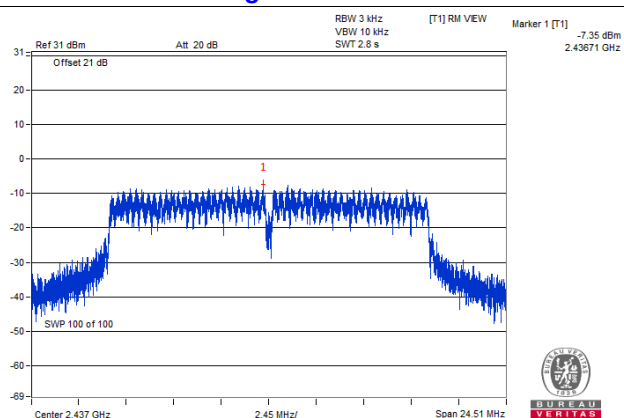
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

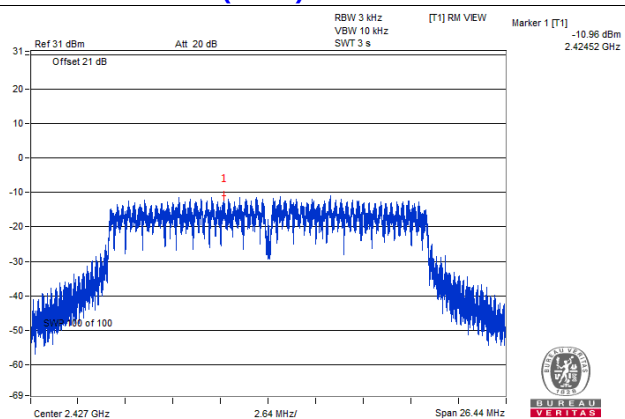
802.11b / CH6



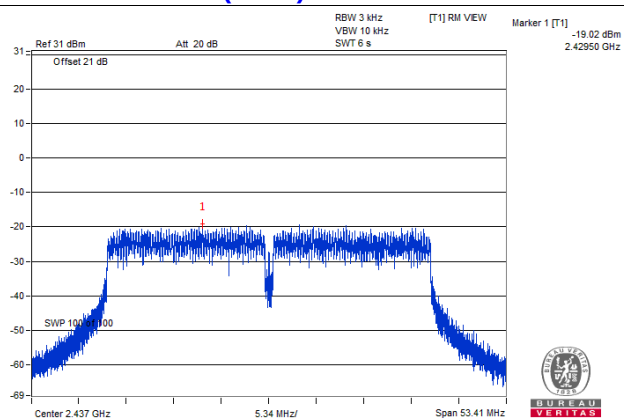
802.11g / Chain 0 : CH6



802.11n (HT20) / Chain 3 : CH6



802.11n (HT40) / Chain 0 : CH6

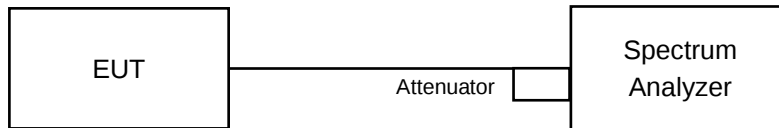


4.7 Conducted Out of Band Emission Measurement

4.7.1 Limits of Conducted Out of Band Emission Measurement

Below -30dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 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 OOBE

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.

4.7.5 Deviation from Test Standard

No deviation.

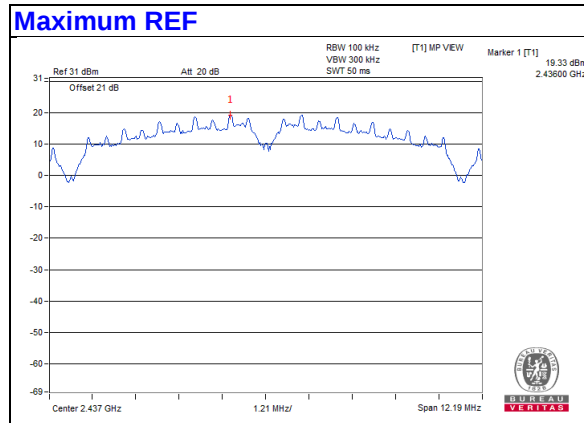
4.7.6 EUT Operating Condition

Same as Item 4.3.6

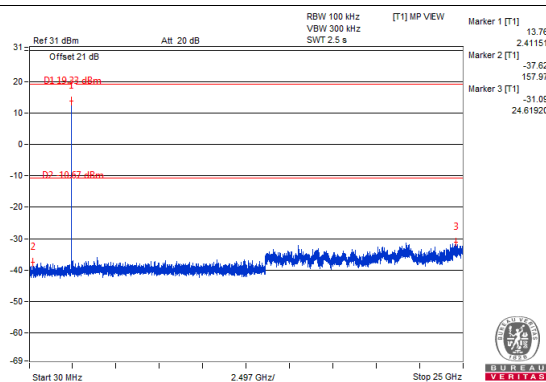
4.7.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 30dB offset below D1. It shows compliance with the requirement.

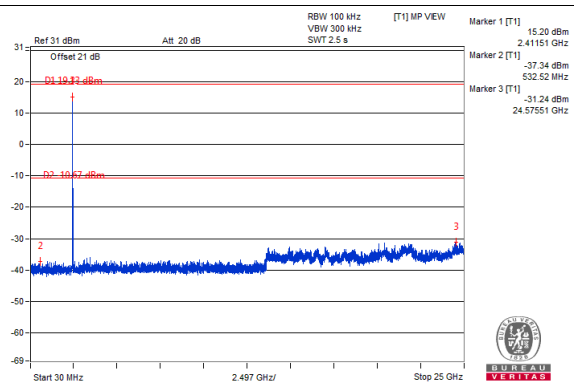
802.11b



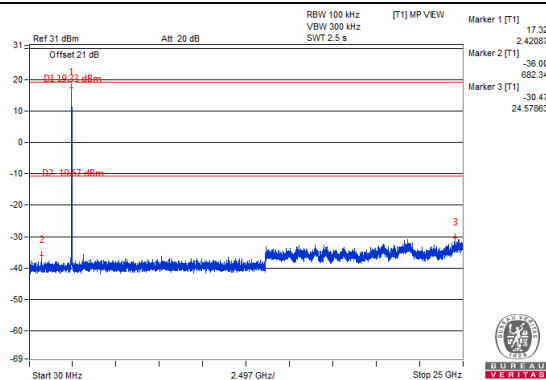
CH 1



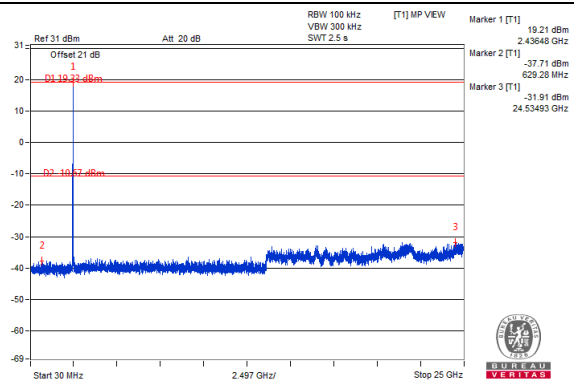
CH 2



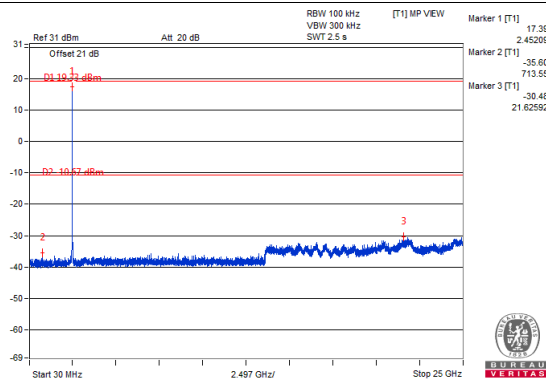
CH 3



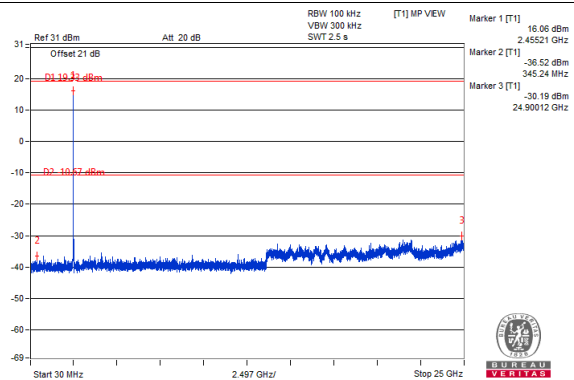
CH 6



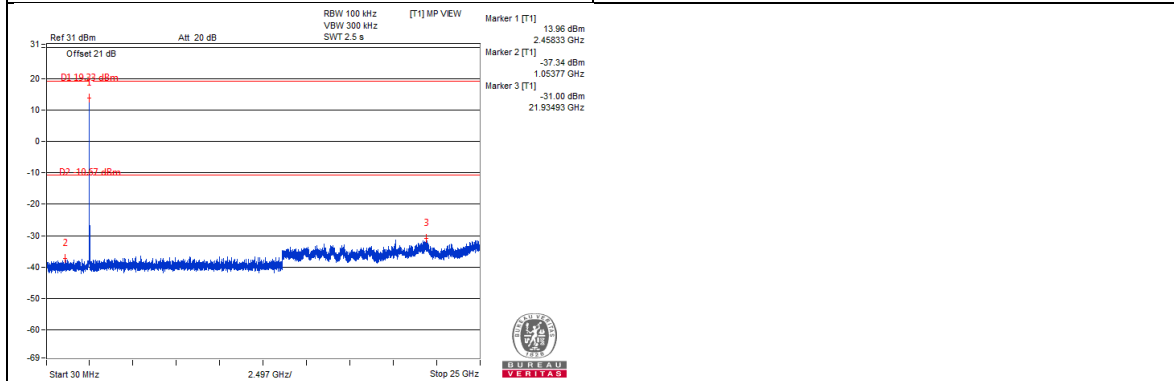
CH 9



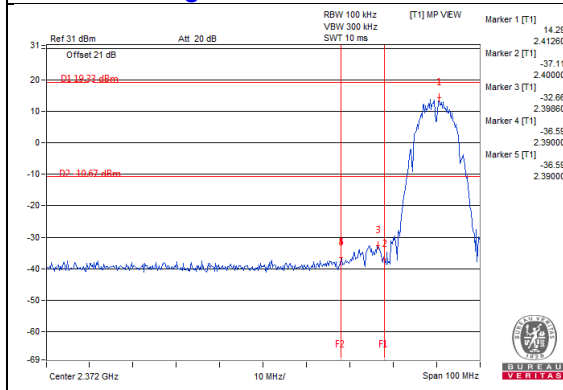
CH 10



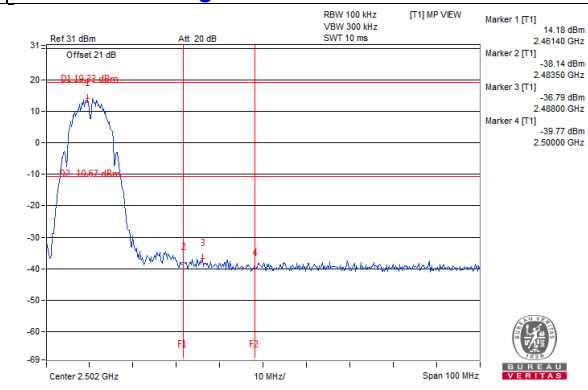
CH 11



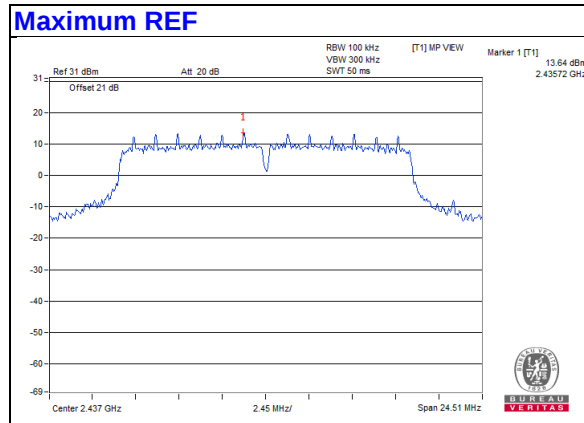
CH 1 Band edge



CH 11 Band edge

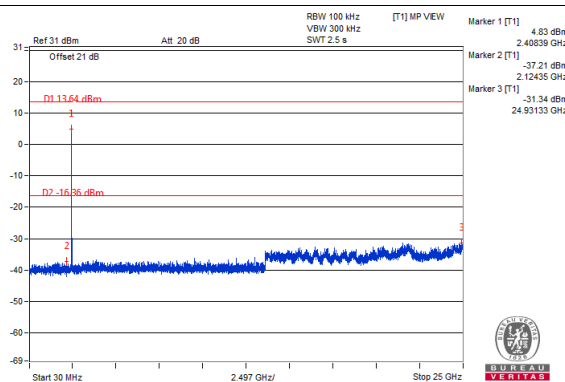


802.11g

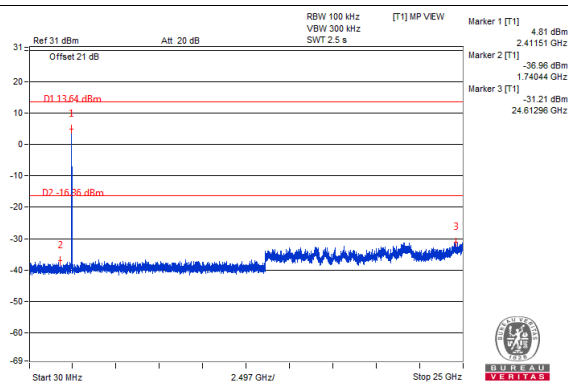


Chain 0

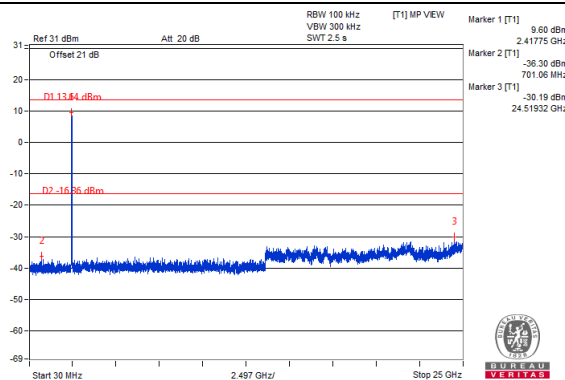
CH 1



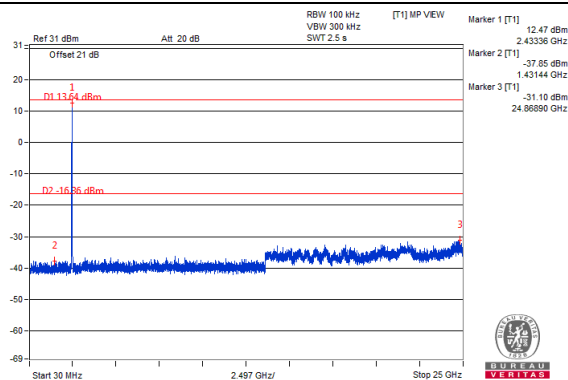
CH 2



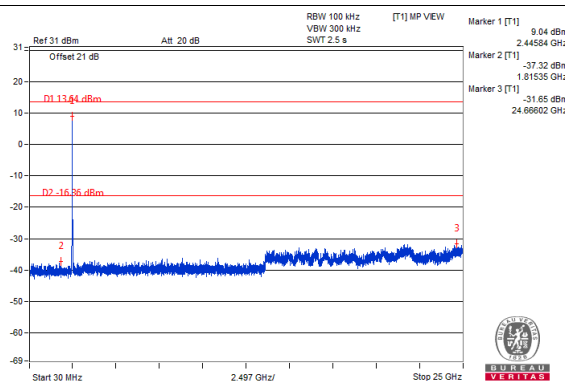
CH 3



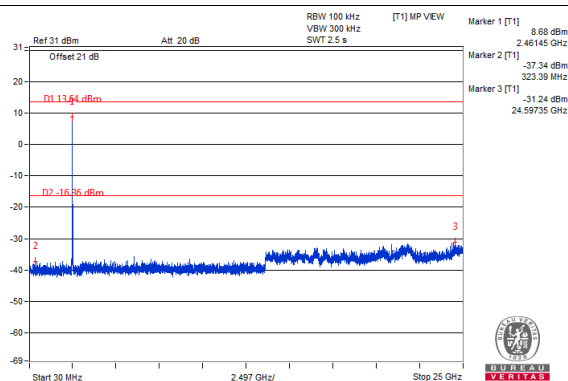
CH 6



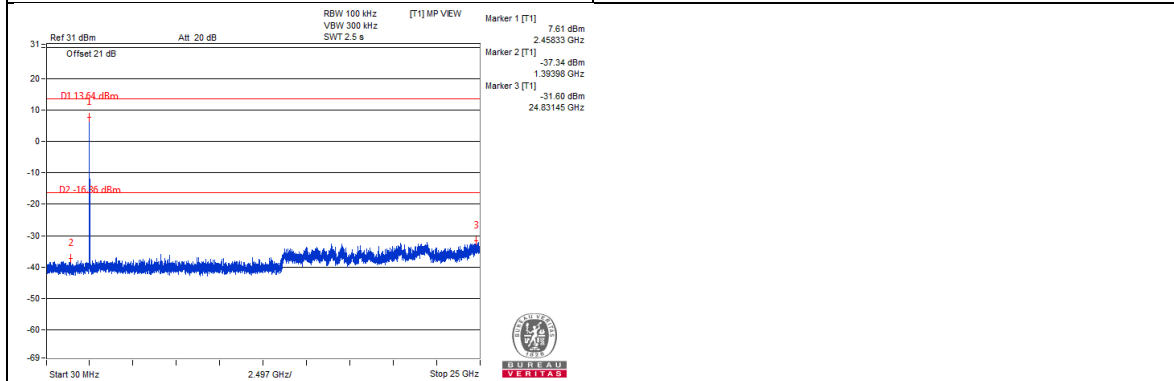
CH 9



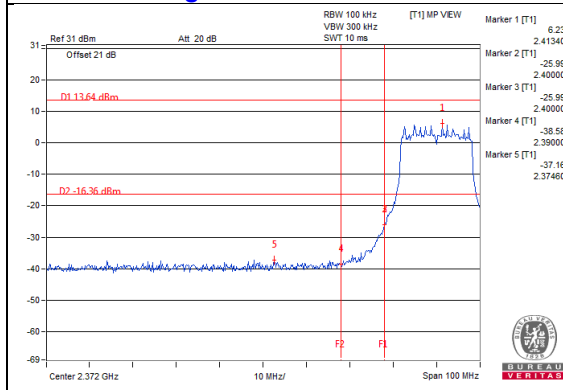
CH 10



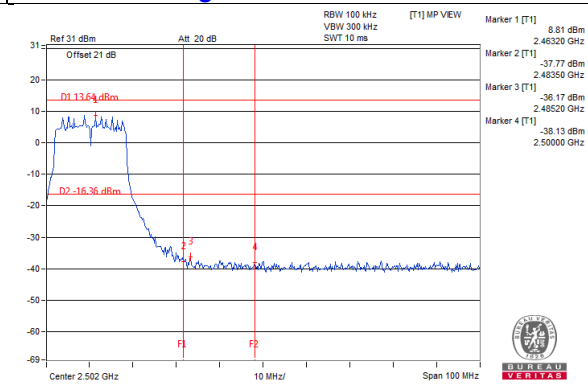
CH 11



CH 1 Band edge

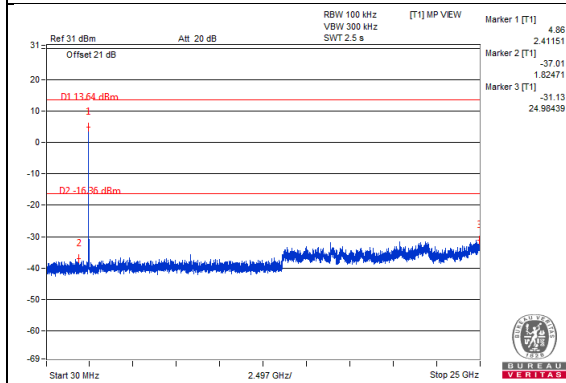


CH 11 Band edge

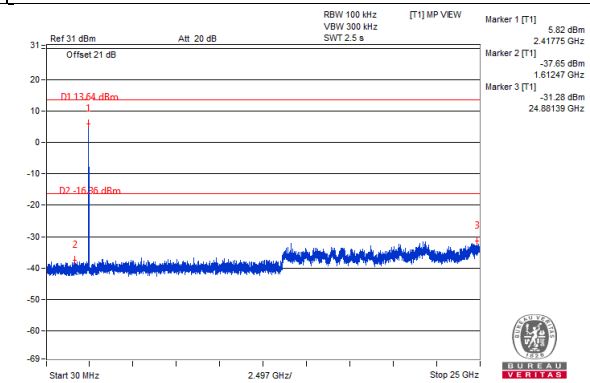


Chain 1

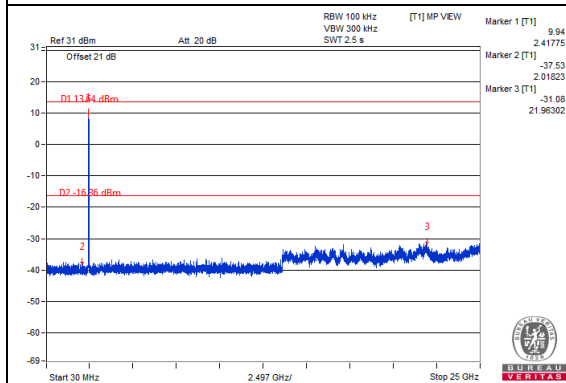
CH 1



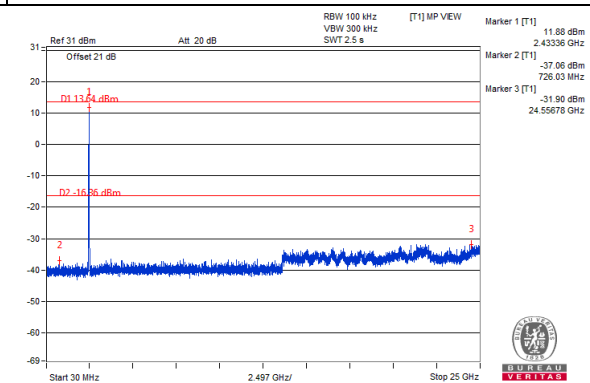
CH 2



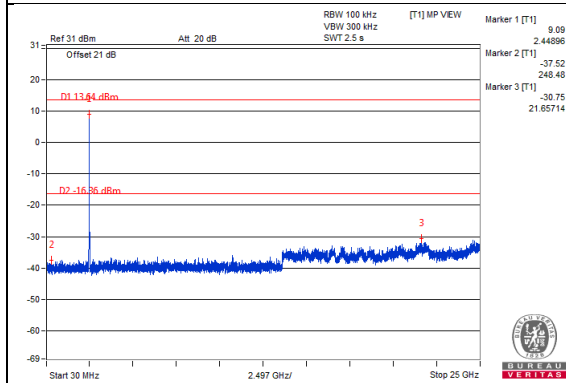
CH 3



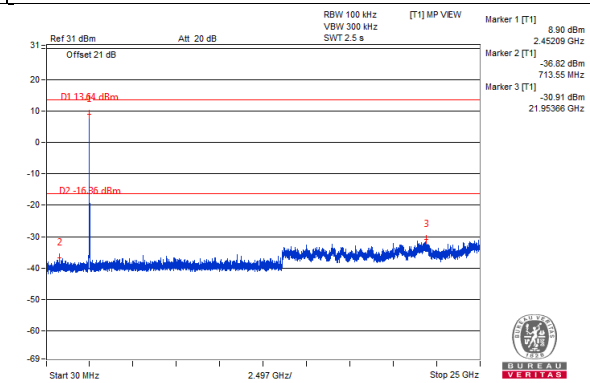
CH 6



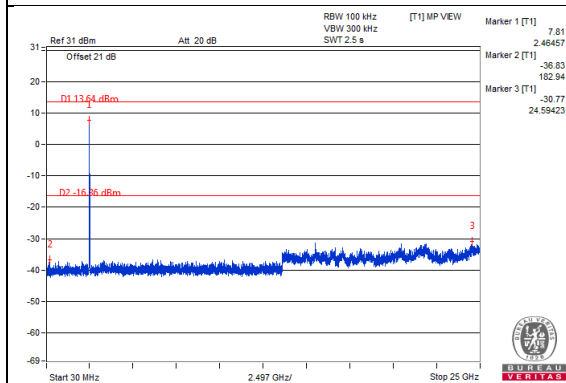
CH 9



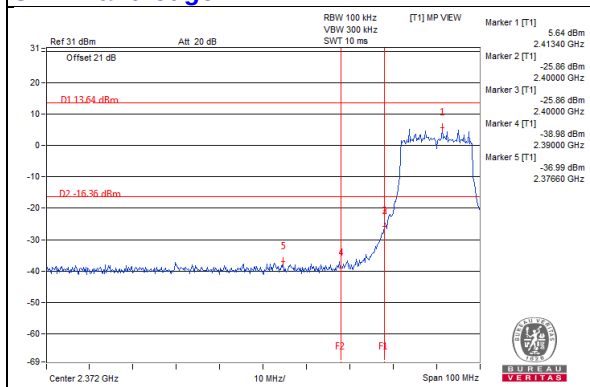
CH 10



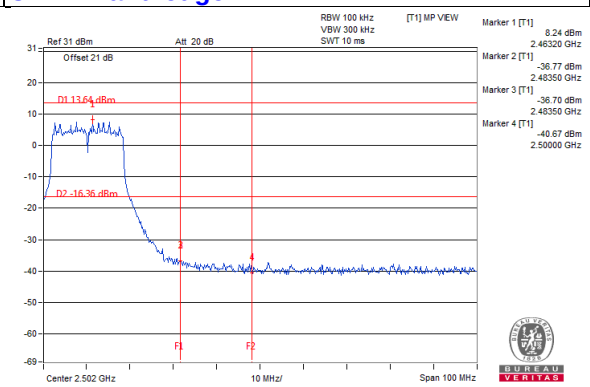
CH 11



CH 1 Band edge

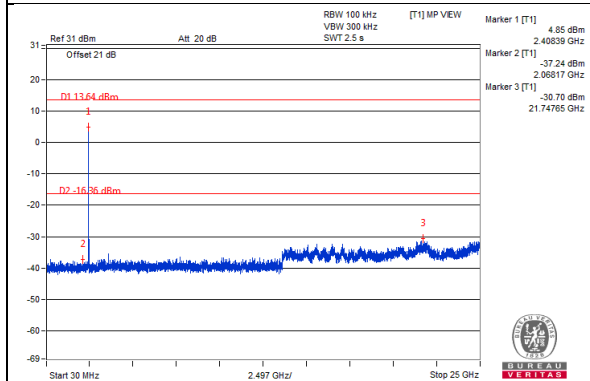


CH 11 Band edge

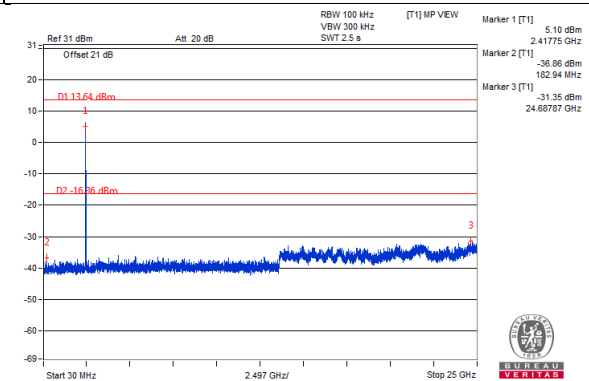


Chain 2

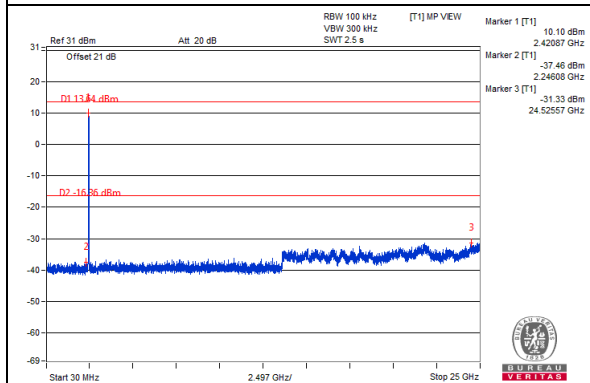
CH 1



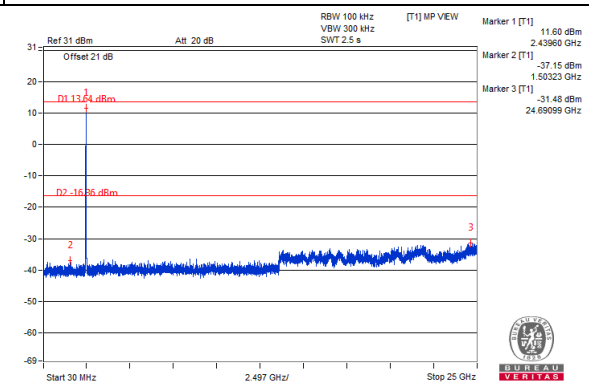
CH 2



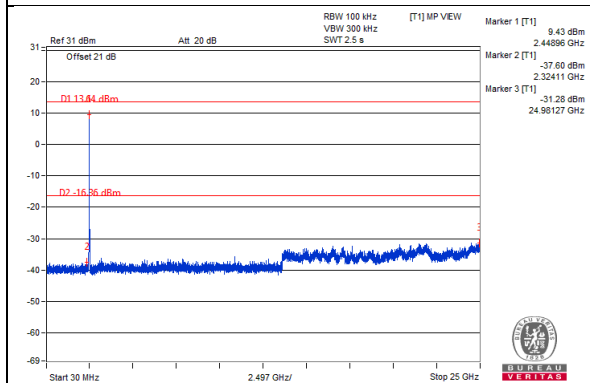
CH 3



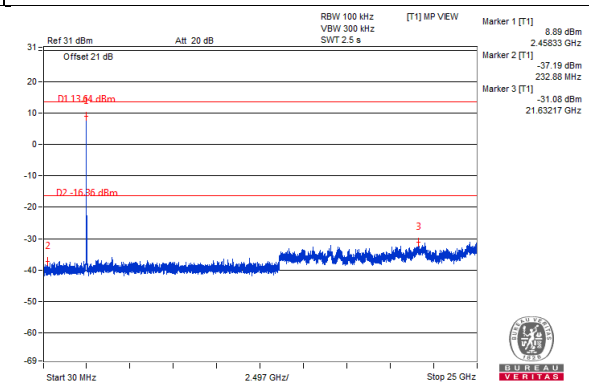
CH 6



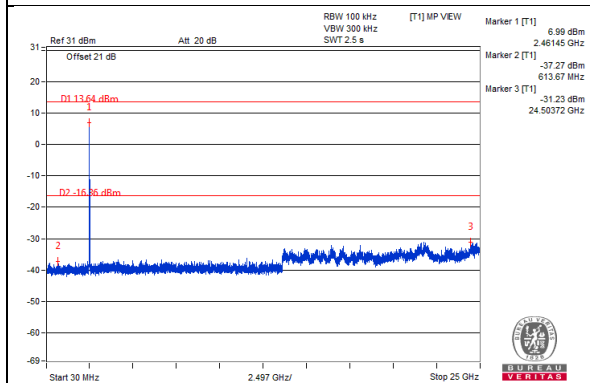
CH 9



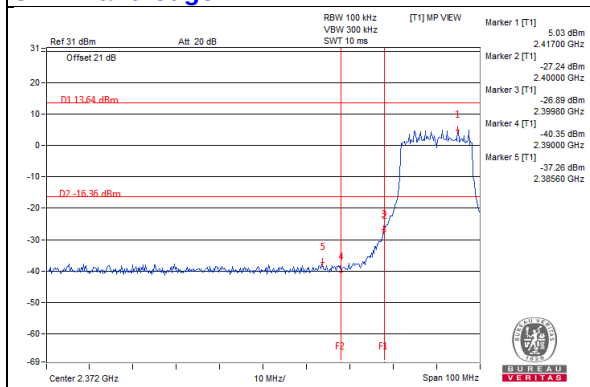
CH 10



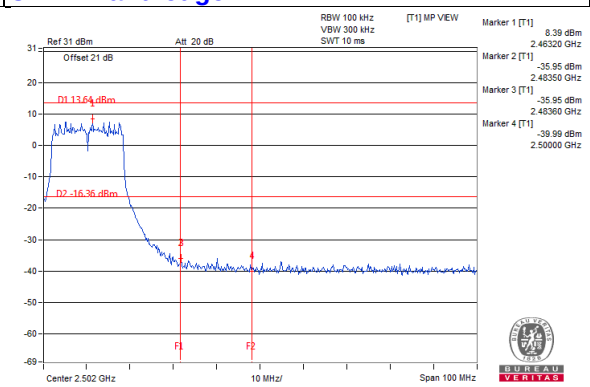
CH 11



CH 1 Band edge

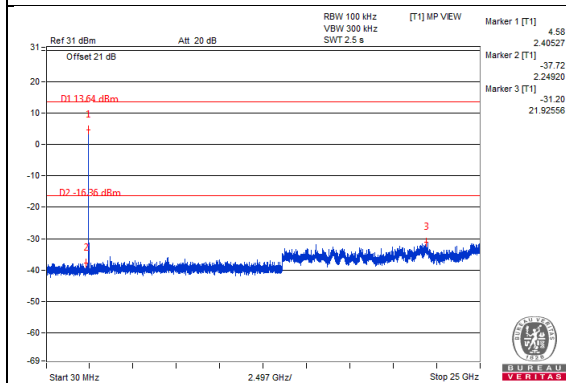


CH 11 Band edge

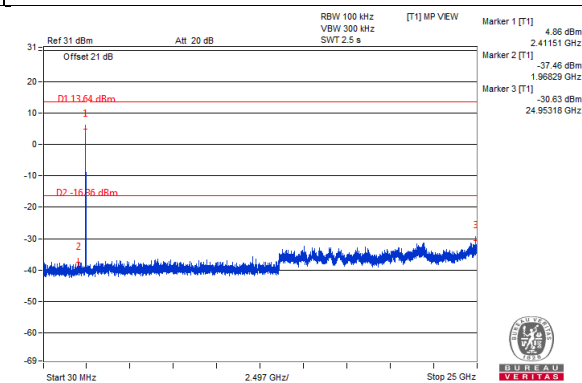


Chain 3

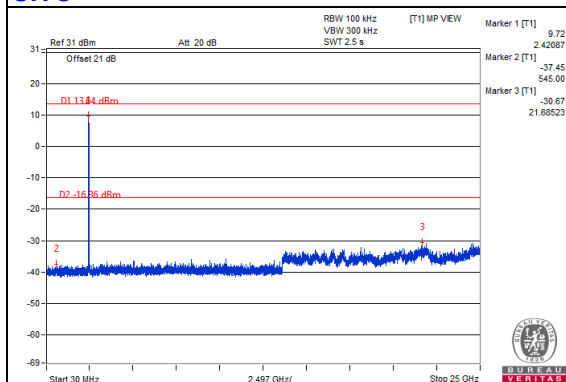
CH 1



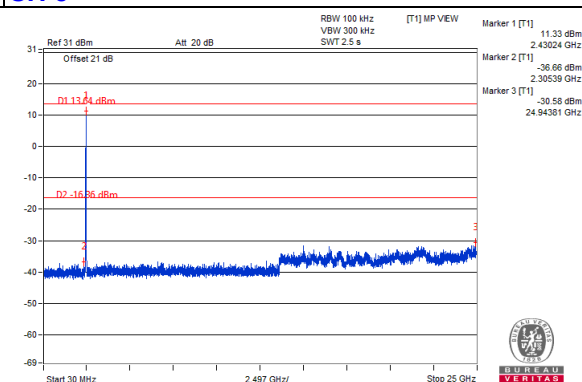
CH 2



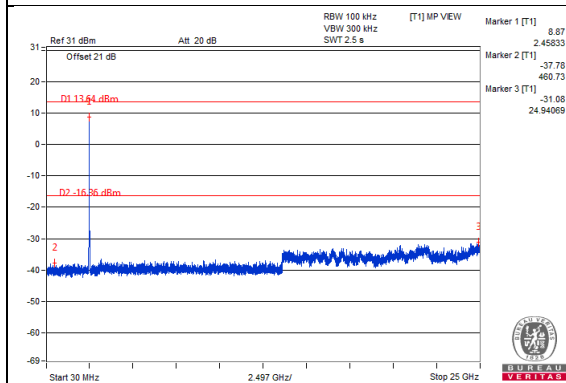
CH 3



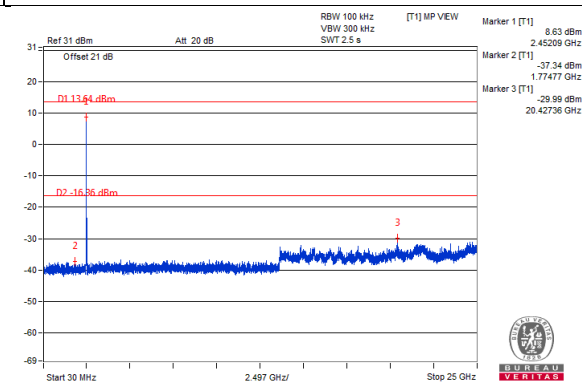
CH 6



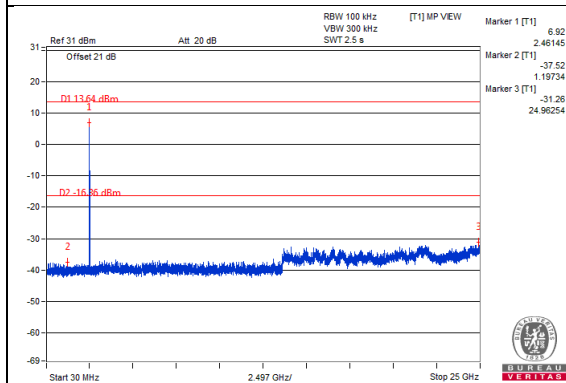
CH 9



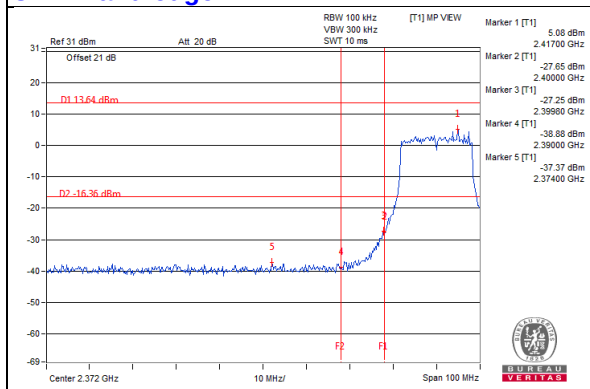
CH 10



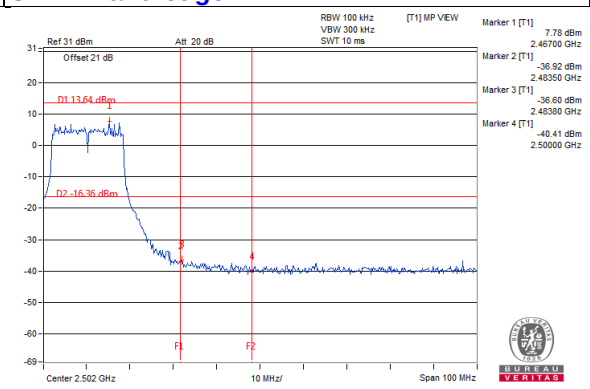
CH 11



CH 1 Band edge

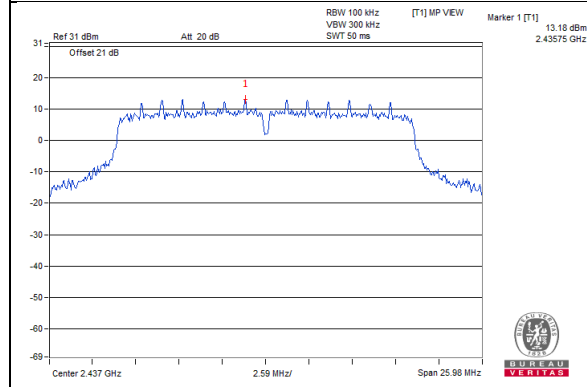


CH 11 Band edge



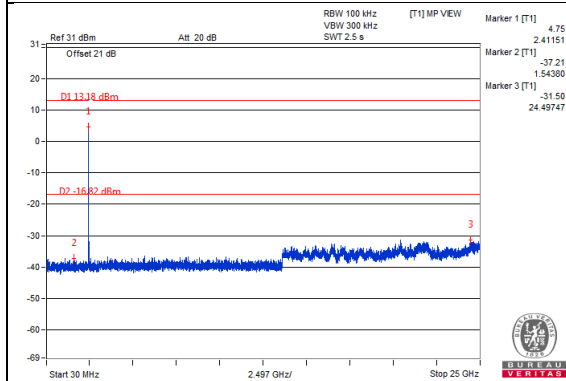
802.11n (HT20)

Maximum REF

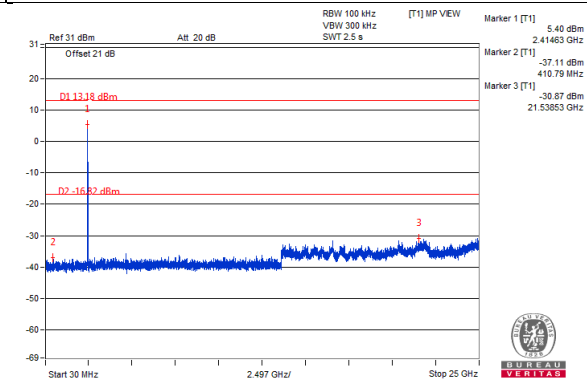


Chain 0

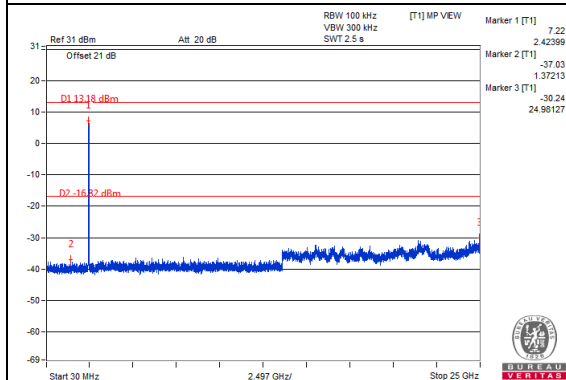
CH 1



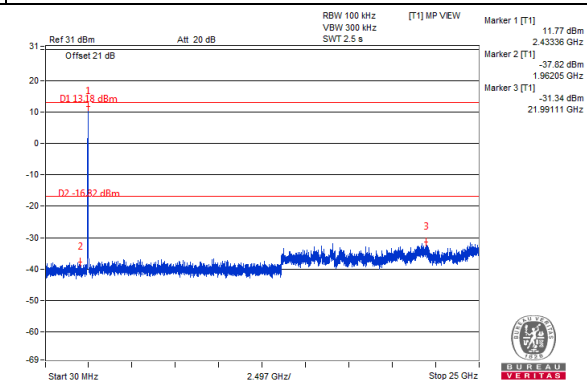
CH 2



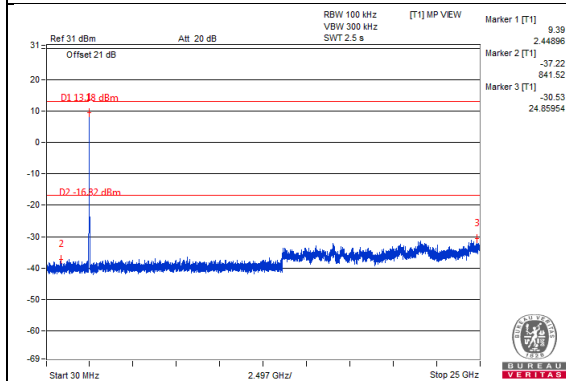
CH 3



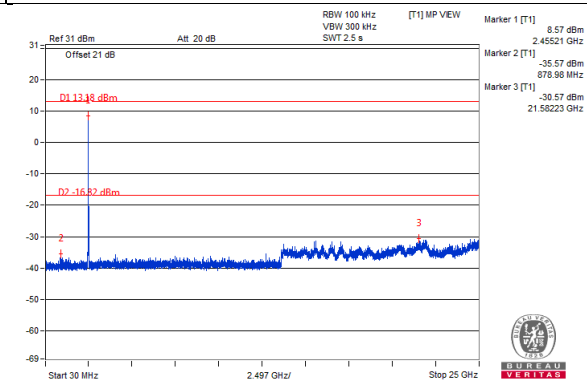
CH 6



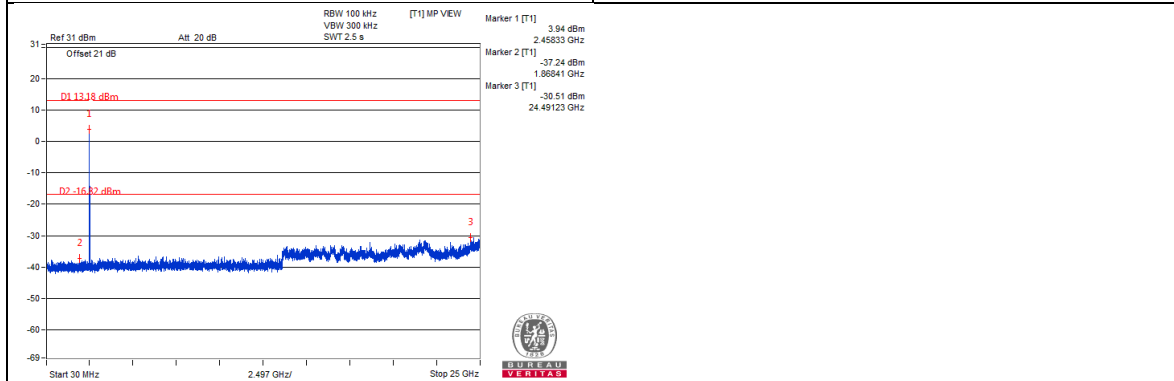
CH 9



CH 10

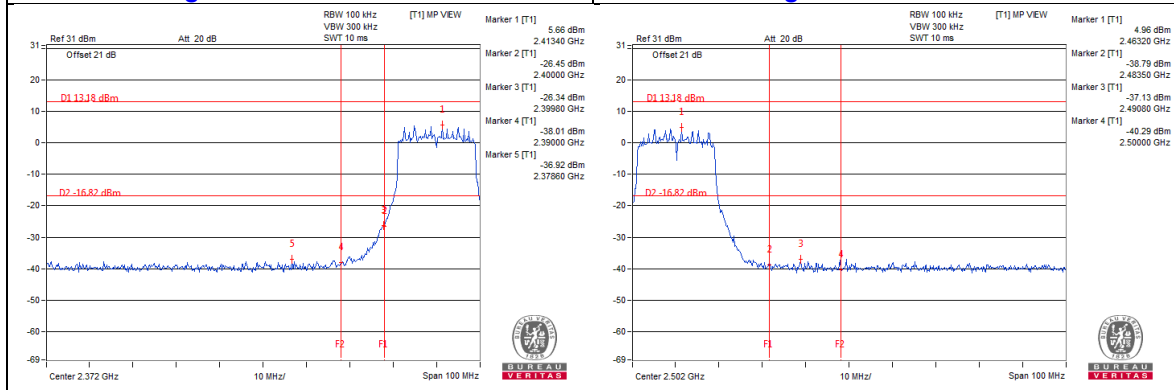


CH 11



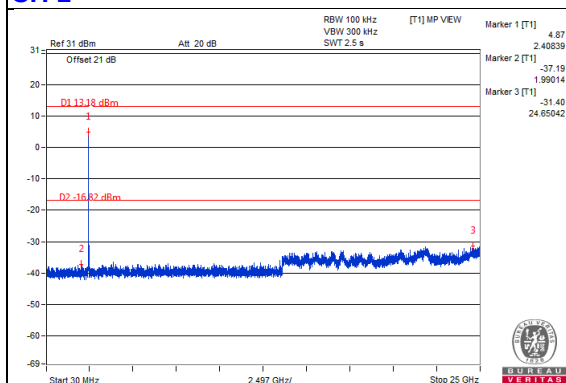
CH 1 Band edge

CH 11 Band edge

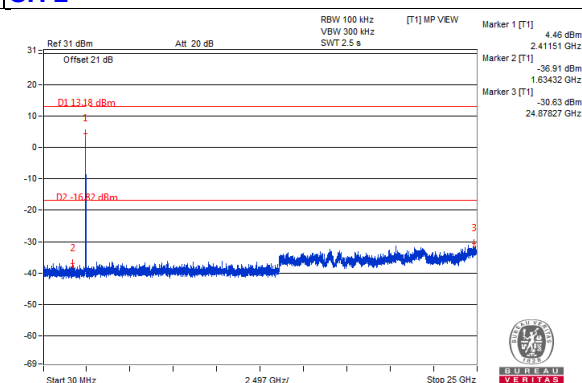


Chain 1

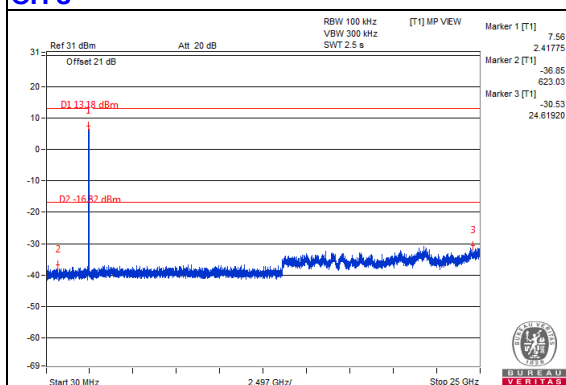
CH 1



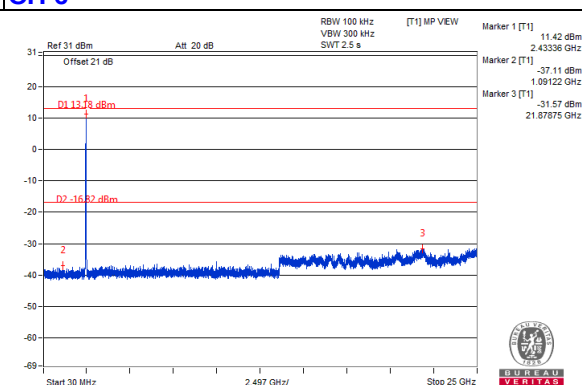
CH 2



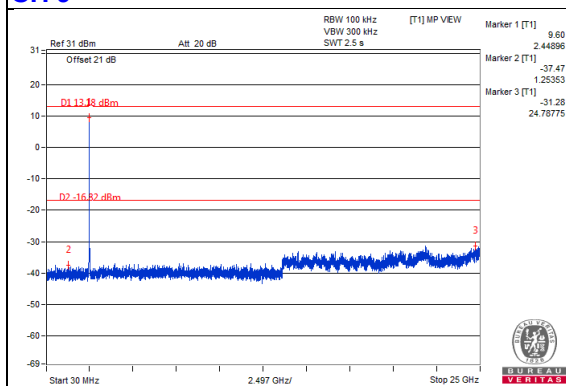
CH 3



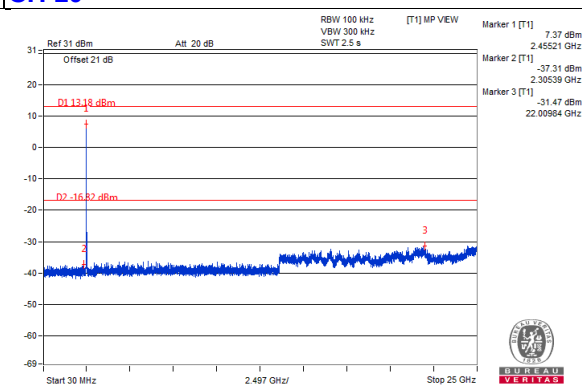
CH 6



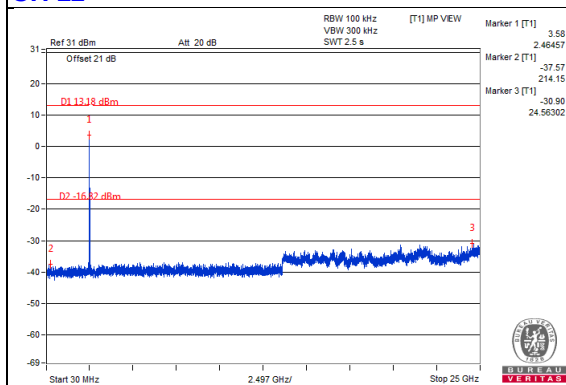
CH 9



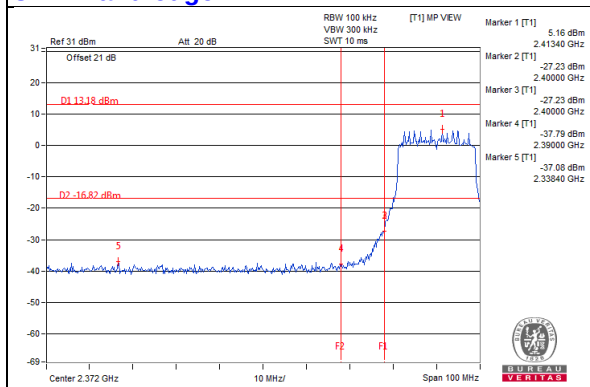
CH 10



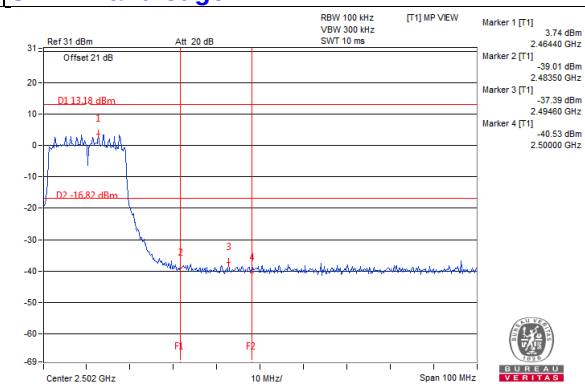
CH 11



CH 1 Band edge

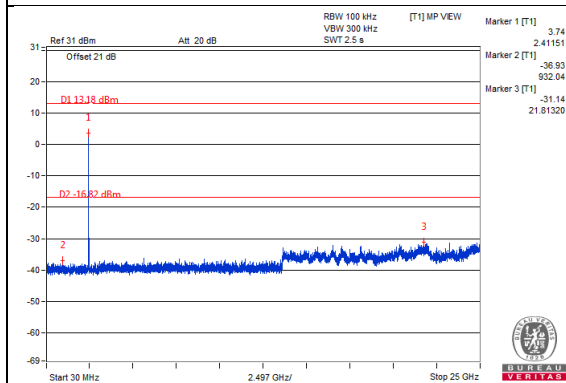


CH 11 Band edge

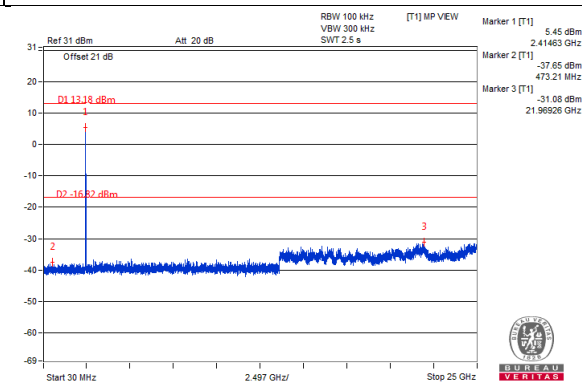


Chain 2

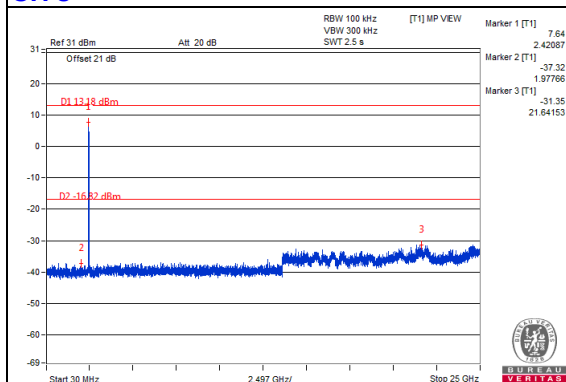
CH 1



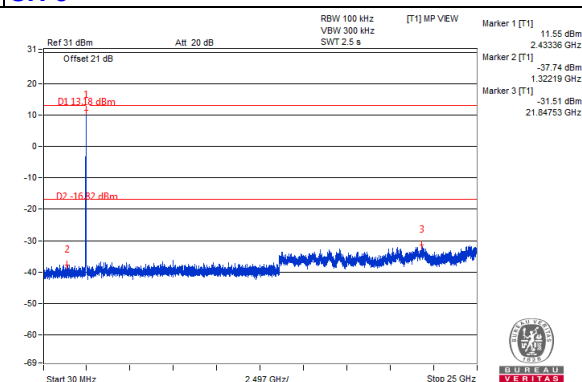
CH 2



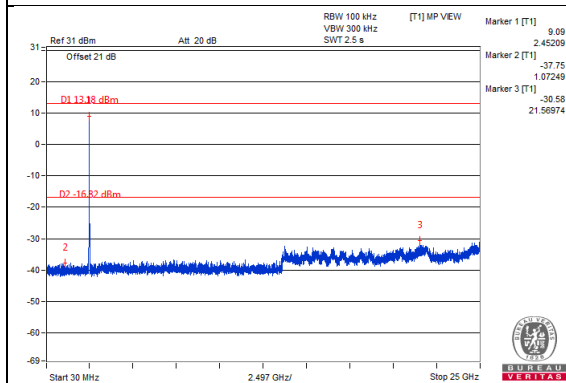
CH 3



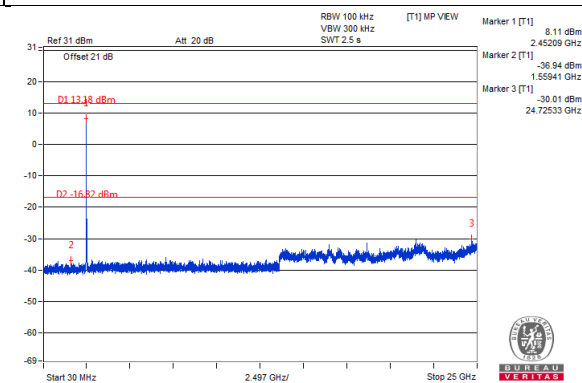
CH 6



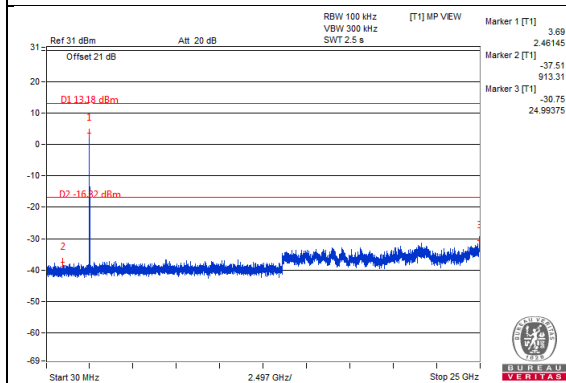
CH 9



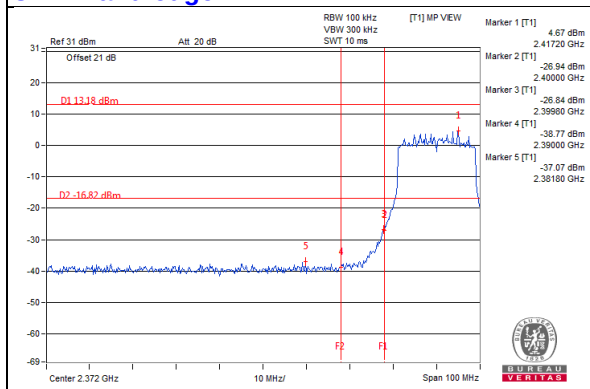
CH 10



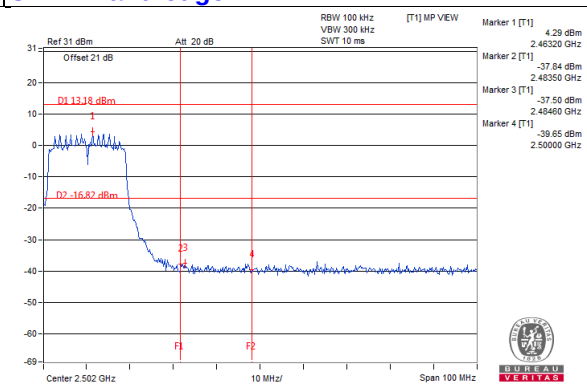
CH 11



CH 1 Band edge

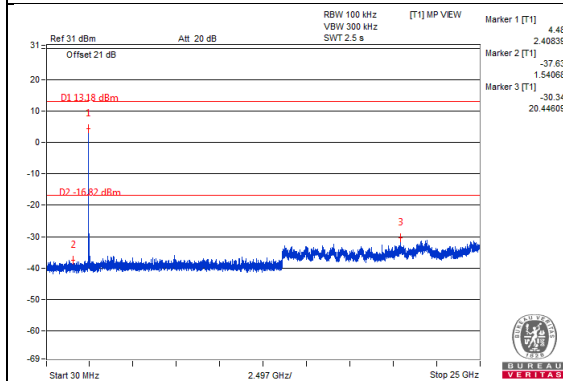


CH 11 Band edge

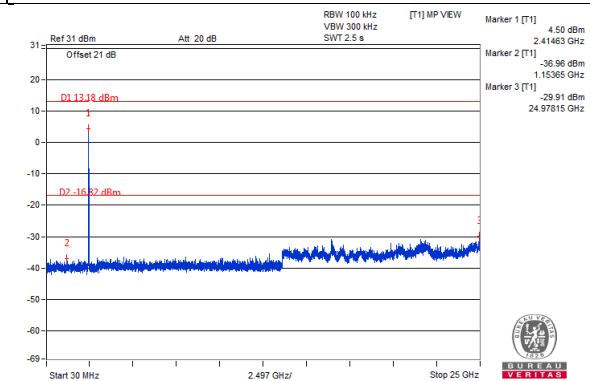


Chain 3

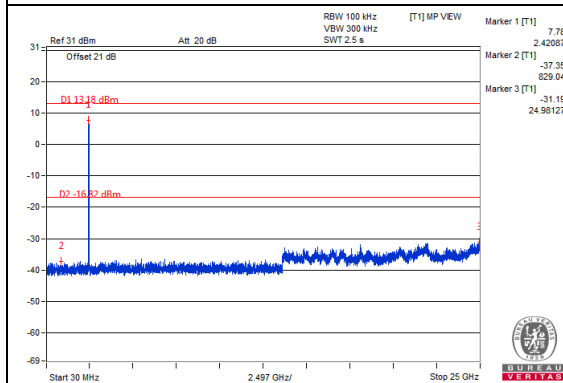
CH 1



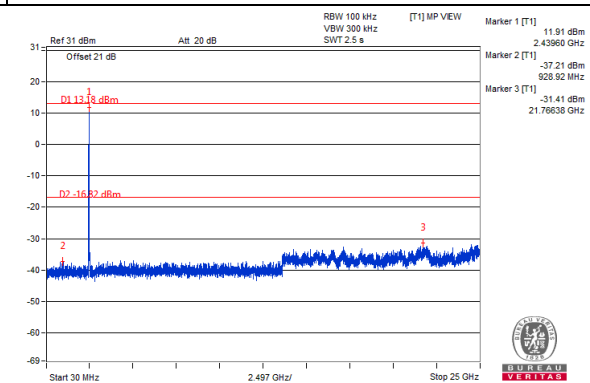
CH 2



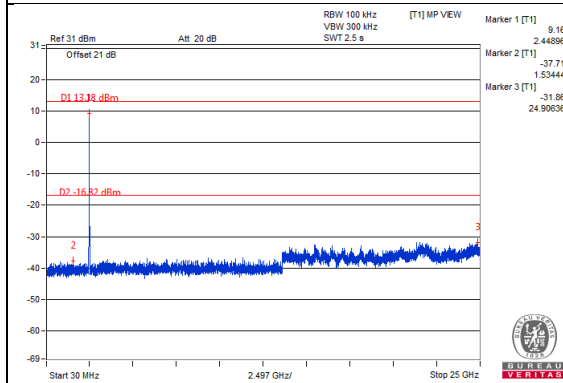
CH 3



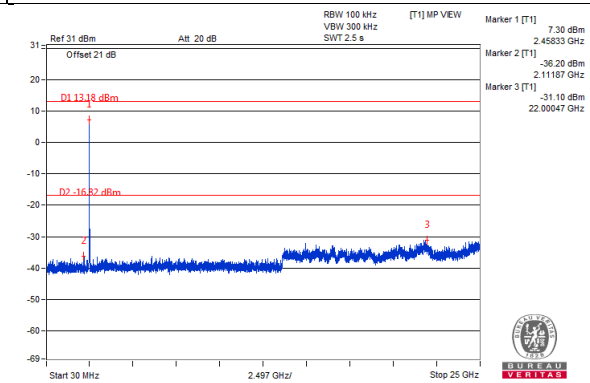
CH 6



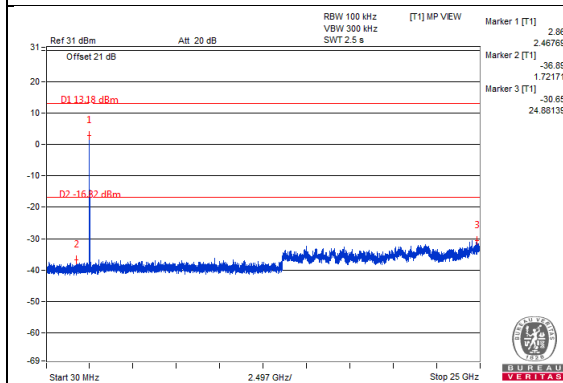
CH 9



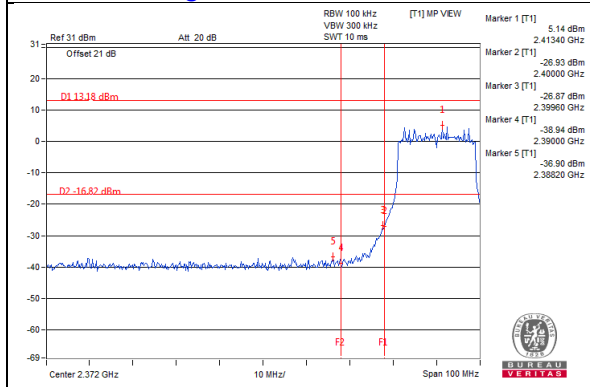
CH 10



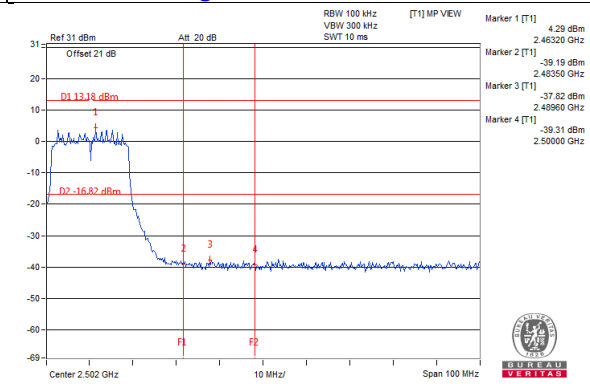
CH 11



CH 1 Band edge

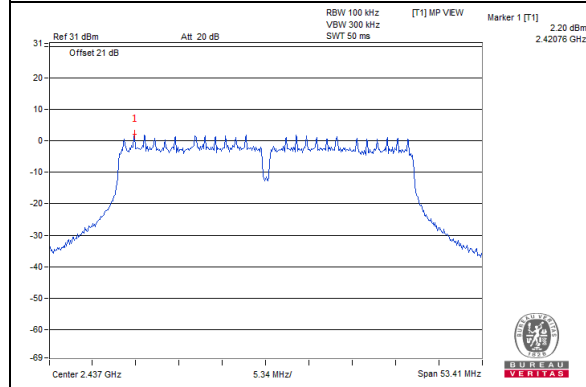


CH 11 Band edge



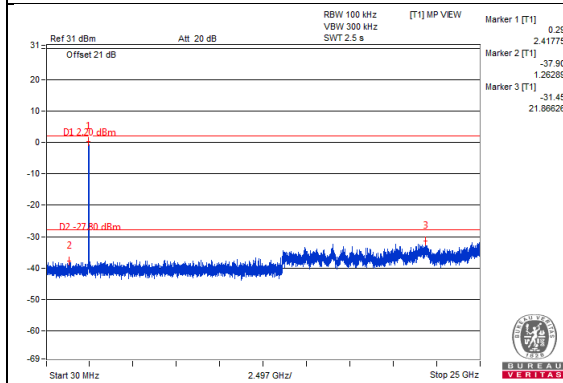
802.11n (HT40)

Maximum REF

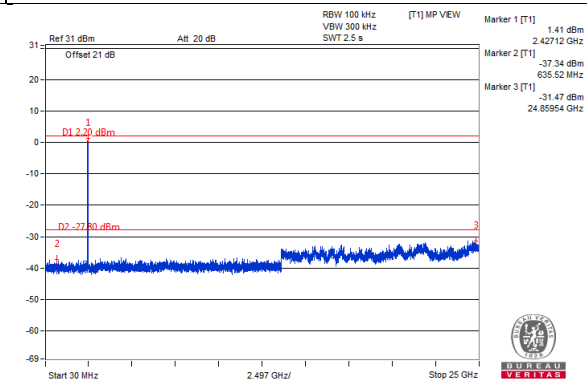


Chain 0

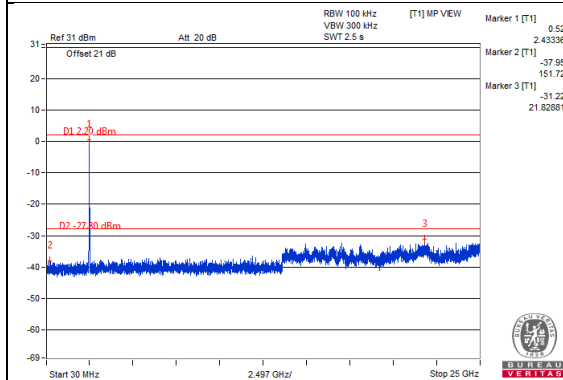
CH 3



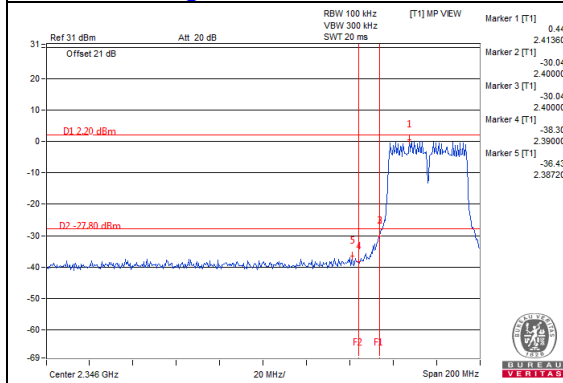
CH 6



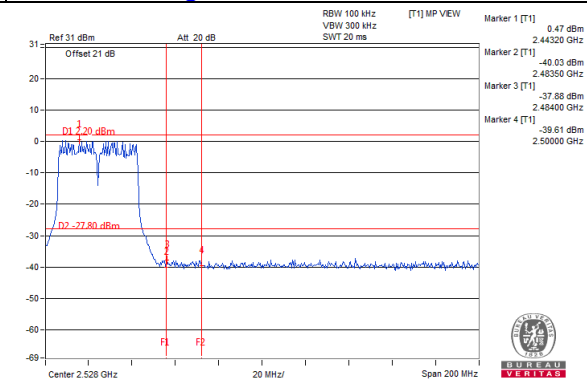
CH 9



CH 3 Band edge

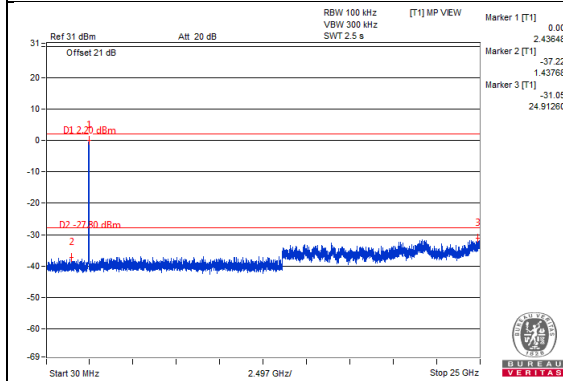


CH 9 Band edge

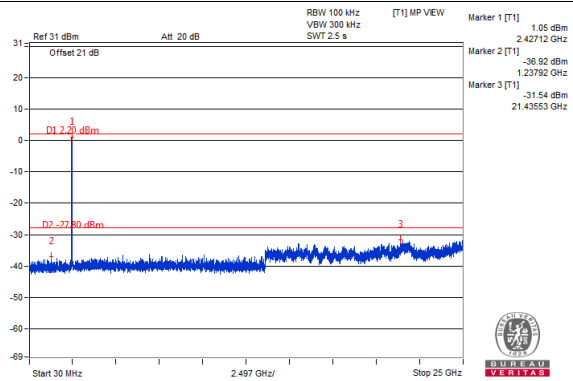


Chain 1

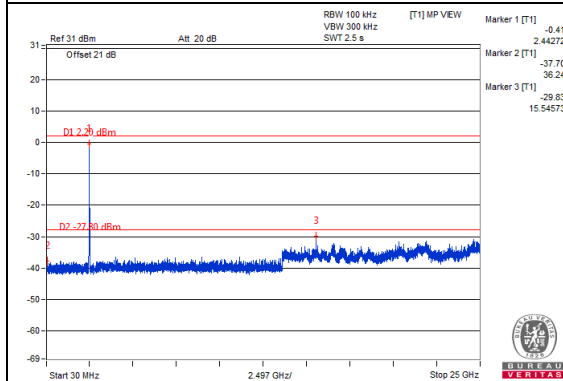
CH 3



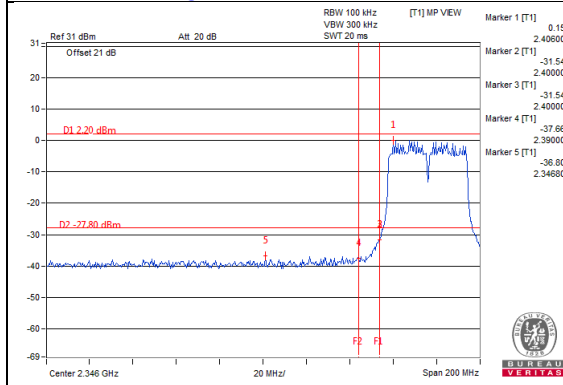
CH 6



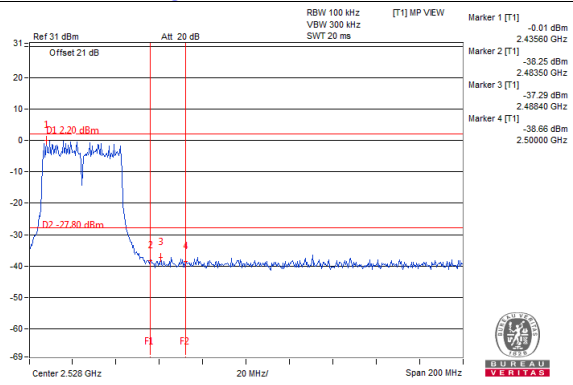
CH 9



CH 3 Band edge

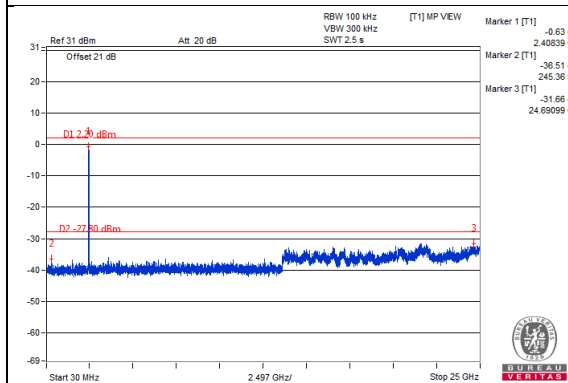


CH 9 Band edge

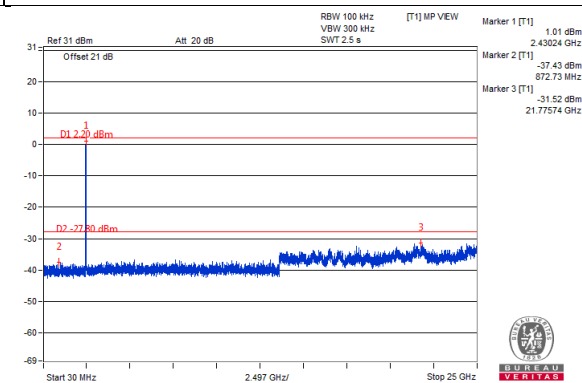


Chain 2

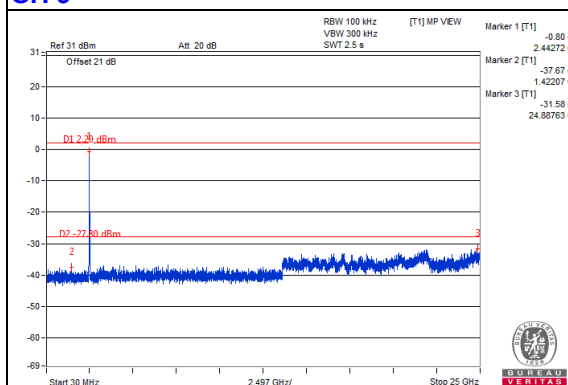
CH 3



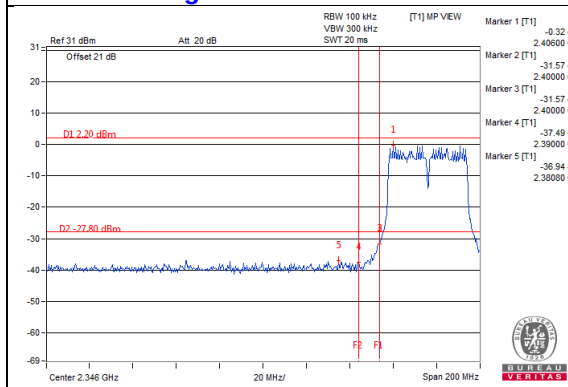
CH 6



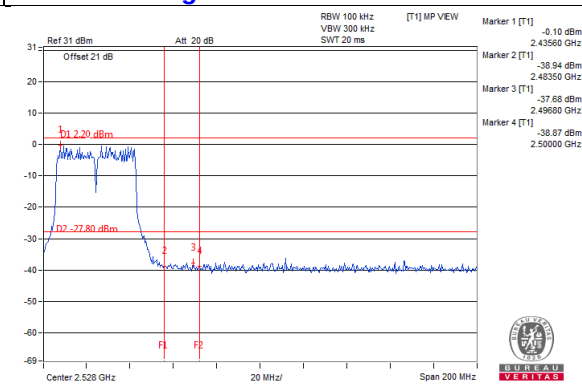
CH 9



CH 3 Band edge

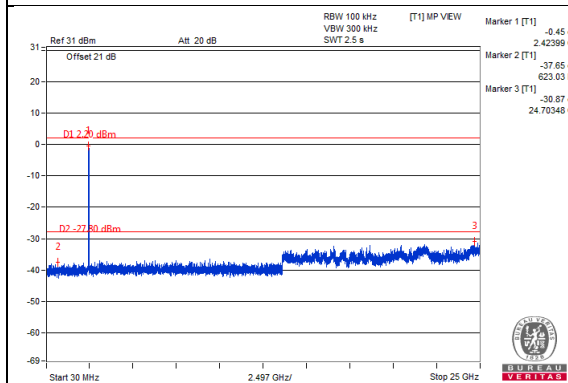


CH 9 Band edge

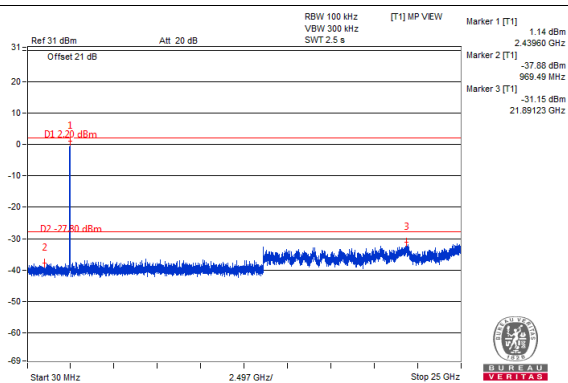


Chain 3

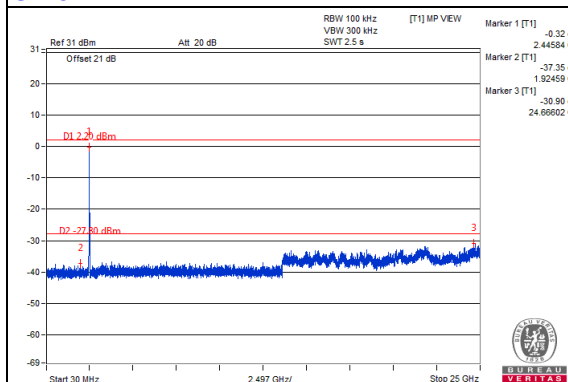
CH 3



CH 6

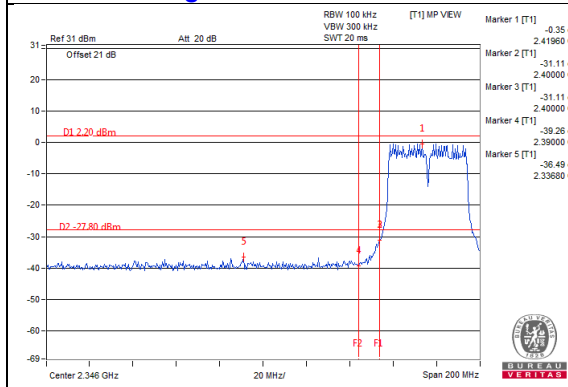


CH 9

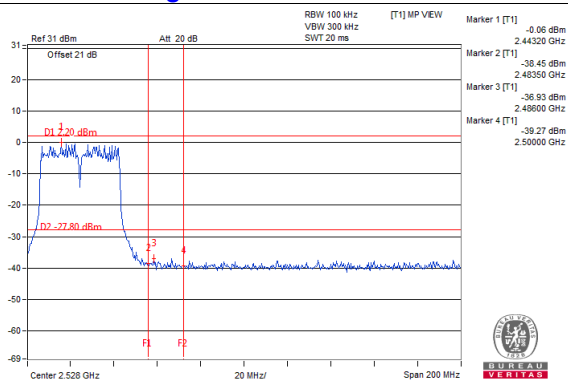


CH 9 Band edge

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 FCC recognized accredited test firms and accredited 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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