

TEST REPORT

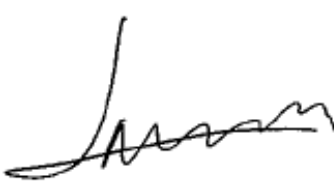
Applicant	Clarion Co., Ltd.
Address	6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China

Manufacturer or Supplier	Clarion Co., Ltd.
Address	6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China
Product	Audio Display
Brand Name	Clarion/NISSAN
Model	PN-4300
Additional Model & Model Difference	PN-4303, See item 3.1 note
Date of tests	Apr. 20, 2020 ~ Aug. 03, 2020

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C, Section 15.247**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Madison Luo Assistant Manager / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Aug. 10, 2020

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Test Report No.: RF200420N031-2

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF200420N031-2	Original release	Aug. 10, 2020

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.247)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	AC Power Conducted Emission	N/A	Powered by Battery
15.247(d) 15.209	Radiated Emissions	PASS	Meet the requirement of limit.
15.247(d)	Band Edge Measurement	PASS	Meet the requirement of limit.
15.247(a)(2)	6dB bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Output power	PASS	Meet the requirement of limit.
15.247(e)	Power Spectral Density	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used.

2 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	UNCERTAINTY
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.60dB
	1GHz ~ 18GHz	4.82dB
	18GHz ~ 40GHz	5.00dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Audio Display
BRAND	Clarion/NISSAN
MODEL NO.	PN-4300
ADDITIONAL NO.	PN-4303
FCC ID	WY2-PN4300
NOMINAL VOLTAGE	DC 13.2V from Battery
MODULATION TECHNOLOGY	DSSS, OFDM
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
OPERATING FREQUENCY	2412-2472MHz for 11b/g/n(HT20)
PEAK OUTPUT POWER	89.743mW(Maximum)
ANTENNA TYPE	PCB Antenna, with -3dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

1. 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.
2. Please refer to the EUT photo document (Reference No.: 200420N031) for detailed product photo.
3. Additional model PN-4303 is identical with the test model PN-4300 except the model no. for trading purpose.
4. When the EUT other mode was tested in the FCC Part 15B(sDOC) report.(report no.: FS200420N031).
5. The EUT provides completed transmitters and receivers:

MODULATION MODE	FUNCTION
802.11b	1TX/1RX
802.11g	1TX/1RX
802.11n (HT20)	1TX/1RX

3.2 DESCRIPTION OF TEST MODES

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	8	2447 MHz
2	2417 MHz	9	2452 MHz
3	2422 MHz	10	2457 MHz
4	2427 MHz	11	2462 MHz
5	2432 MHz	12	2467 MHz
6	2437 MHz	13	2472 MHz
7	2442 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photographs of the test configuration for reference.

3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission. Following test modes were selected for the final test, and the final worst case is marked in boldface and recorded in the report:

EUT CONFIGURE MODE	APPLICABLE TO				MODE
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	-	√	Powered by Fully Battery with WIFI Link

Where **RE<1G**: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz

APCM: Antenna Port Conducted Measurement

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, XYZ axis and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1	DSSS	DBPSK	1.0

For the test results, only the worst case was shown in test report.

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, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1.0
A	802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.0
A	802.11n HT20	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.5

ANTENNA PORT CONDUCTED MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1.0
A	802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.0
A	802.11n HT20	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER(POE)	TESTED BY
RE<1G	25deg. C, 53%RH	DC 13.2V from Fully Battery	Allen
RE≥1G	25deg. C, 53%RH	DC 13.2V from Fully Battery	Allen
PLC	N/A	N/A	N/A
APCM	25deg. C, 60%RH	DC 13.2V from Fully Battery	Daniel

3.3 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, Section 15.247

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

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

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together without other necessary accessories or support units.

4 TEST TYPES AND RESULTS

4.1. RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

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

NOTES:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), 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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 18,20	Mar. 17,21
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 22,20	May 21,21
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 28,20	May 27,21
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Mar. 15,20	Mar. 14,21
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	Jun. 23,20	Jun. 22,21
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Jun. 23,20	Jun. 22,21
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	Jun. 23,20	Jun. 22,21
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Apr. 21,20	Apr. 20,21
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 21,20	Apr. 20,21
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Mar. 04,20	Mar. 03,21
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A

NOTES:

1. The test was performed in 966 Chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
3. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 749762.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
- g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTES:

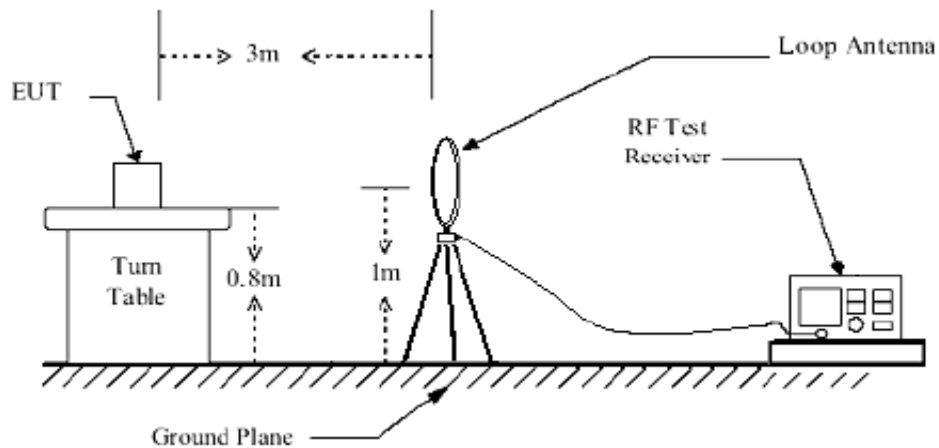
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The testing of the EUT was performed on all 3 orthogonal axes, the worst-case test configuration was reported on the file test setup photo.

4.1.4 DEVIATION FROM TEST STANDARD

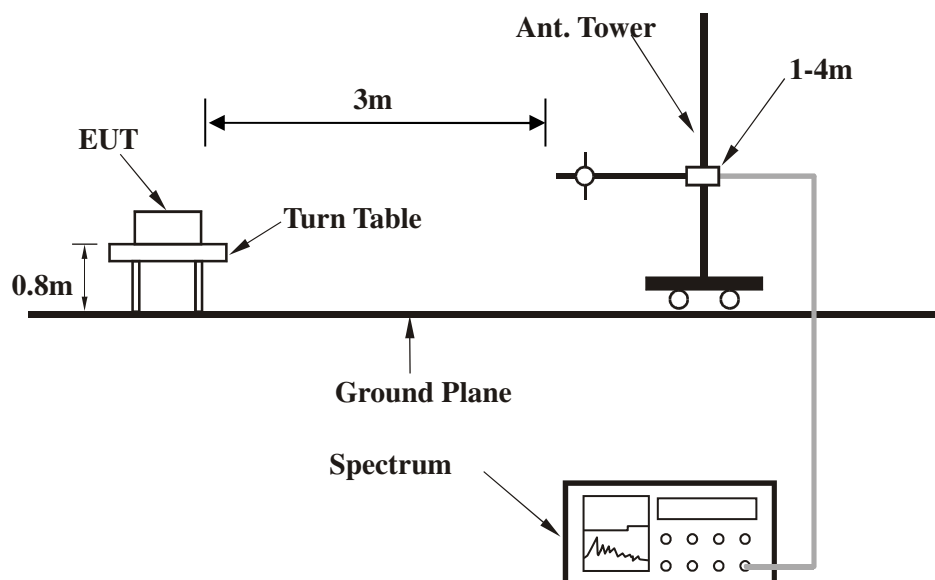
No deviation.

4.1.5 TEST SETUP

Below 30MHz test setup

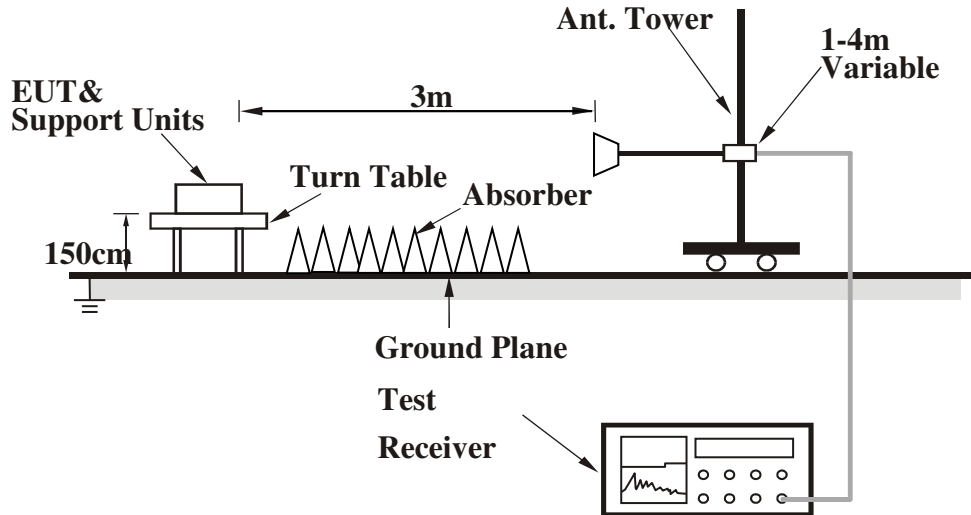


Below 1GHz test setup



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

Above 1GHz test setup



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

4.1.6 EUT OPERATING CONDITIONS

- Placed the EUT on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

4.1.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA:

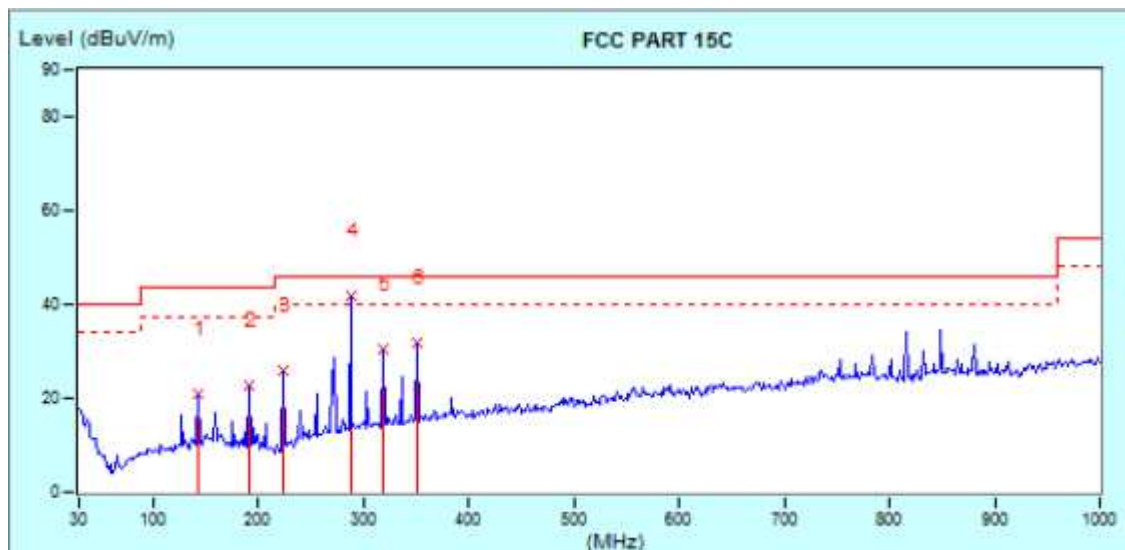
802.11b

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

No.	Frequency MHz	Factor dB/m	Reading dBuV	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table	
							cm	deg
1	143.48	-18.23	39.07	20.84	43.50	-22.66	100	0
2	191.67	-19.19	41.75	22.56	43.50	-20.94	100	0
3	224.31	-19.37	45.07	25.70	46.00	-20.30	100	0
* 4	288.04	-14.93	56.62	41.69	46.00	-4.31	100	0
5	319.13	-13.70	44.15	30.45	46.00	-15.55	100	0
6	351.78	-12.74	44.71	31.97	46.00	-14.03	100	0

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.

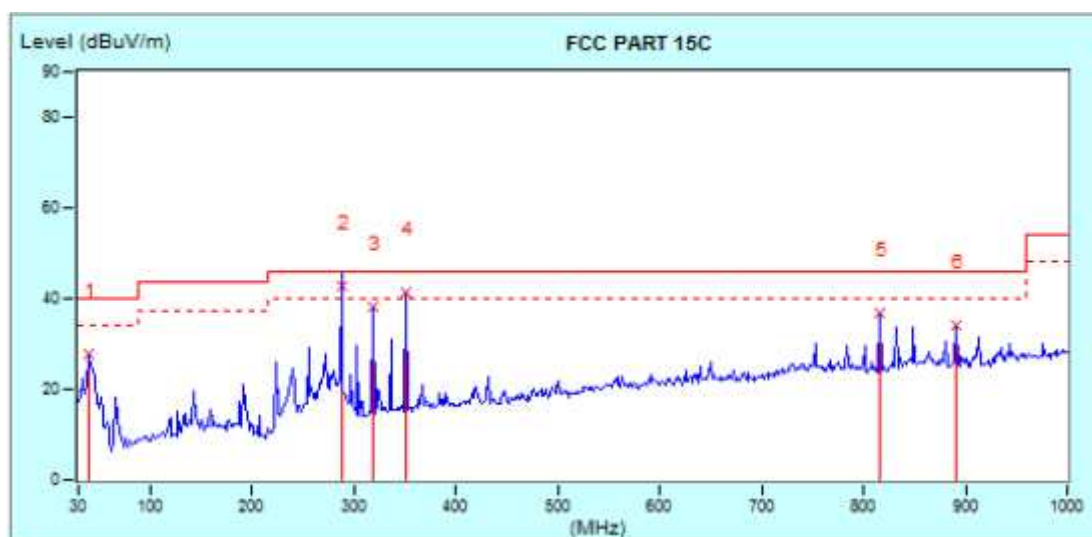


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

No.	Frequency MHz	Factor dB/m	Reading dBuV	Emission dBuV/m	Limit dBuV/m	Margin dB	Tower / Table	
							cm	deg
1	40.88	-16.42	43.98	27.56	40.00	-12.44	100	0
* 2	288.04	-14.93	57.83	42.90	46.00	-3.10	100	0
3	319.13	-13.70	52.07	38.37	46.00	-7.63	100	0
4	351.78	-12.74	53.88	41.14	46.00	-4.86	100	0
5	816.57	-3.83	40.64	36.81	46.00	-9.19	100	0
6	891.19	-2.62	36.63	34.01	46.00	-11.99	100	0

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.



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	46.46 PK	74.00	-27.54	1.00 H	147	42.93	3.53
2	2390.00	33.48 AV	54.00	-20.52	1.00 H	147	29.95	3.53
3	*2412.00	90.69 PK			1.00 H	147	87.04	3.65
4	*2412.00	85.62 AV			1.00 H	147	81.97	3.65
5	4824.00	51.72 PK	74.00	-22.28	1.00 H	0	43.67	8.05
6	4824.00	40.31 AV	54.00	-13.69	1.00 H	0	32.26	8.05
7	#7236.00	55.64 PK	74.00	-18.36	1.00 H	0	42.07	13.57
8	#7236.00	42.31 AV	54.00	-11.69	1.00 H	0	28.74	13.57
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	46.54 PK	74.00	-27.46	1.76 V	78	43.01	3.53
2	2390.00	33.29 AV	54.00	-20.71	1.76 V	78	29.76	3.53
3	*2412.00	88.97 PK			1.76 V	78	85.32	3.65
4	*2412.00	83.03 AV			1.76 V	78	79.38	3.65
5	4824.00	52.85 PK	74.00	-21.15	1.00 V	0	44.80	8.05
6	4824.00	42.79 AV	54.00	-11.21	1.00 V	0	34.74	8.05
7	#7236.00	56.15 PK	74.00	-17.85	1.00 V	0	42.58	13.57
8	#7236.00	43.42 AV	54.00	-10.58	1.00 V	0	29.85	13.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	89.14 PK			1.04 H	152	85.37	3.77
2	*2437.00	86.82 AV			1.04 H	152	83.05	3.77
3	4874.00	50.61 PK	74.00	-23.39	1.00 H	0	42.38	8.23
4	4874.00	41.57 AV	54.00	-12.43	1.00 H	0	33.34	8.23
5	7311.00	54.74 PK	74.00	-19.26	1.00 H	0	40.94	13.80
6	7311.00	41.79 AV	54.00	-12.21	1.00 H	0	27.99	13.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	86.51 PK			1.58 V	11	82.74	3.77
2	*2437.00	83.57 AV			1.58 V	11	79.80	3.77
3	4874.00	52.44 PK	74.00	-21.56	1.00 V	0	44.21	8.23
4	4874.00	41.46 AV	54.00	-12.54	1.00 V	0	33.23	8.23
5	7311.00	55.47 PK	74.00	-18.53	1.00 V	0	41.67	13.80
6	7311.00	44.08 AV	54.00	-9.92	1.00 V	0	30.28	13.80

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
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	88.59 PK			1.00 H	16	84.70	3.89
2	*2462.00	83.38 AV			1.00 H	16	79.49	3.89
3	2483.50	46.25 PK	74.00	-27.75	1.00 H	16	42.25	4.00
4	2483.50	33.01 AV	54.00	-20.99	1.00 H	16	29.01	4.00
5	4924.00	52.31 PK	74.00	-21.69	1.00 H	0	43.91	8.40
6	4924.00	39.47 AV	54.00	-14.53	1.00 H	0	31.07	8.40
7	7386.00	56.31 PK	74.00	-17.69	1.00 H	0	42.28	14.03
8	7386.00	41.71 AV	54.00	-12.29	1.00 H	0	27.68	14.03
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	85.65 PK			1.04 V	15	81.76	3.89
2	*2462.00	83.40 AV			1.04 V	15	79.51	3.89
3	2483.50	45.99 PK	74.00	-28.01	1.06 V	15	41.99	4.00
4	2483.50	32.54 AV	54.00	-21.46	1.06 V	15	28.54	4.00
5	4924.00	53.74 PK	74.00	-20.26	1.00 V	0	45.34	8.40
6	4924.00	41.88 AV	54.00	-12.12	1.00 V	0	33.48	8.40
7	7386.00	57.11 PK	74.00	-16.89	1.00 V	0	43.08	14.03
8	7386.00	43.15 AV	54.00	-10.85	1.00 V	0	29.12	14.03

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

CHANNEL	TX Channel 12	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	*2467.00	88.36 PK			1.00 H	0	84.44	3.92
2	*2467.00	81.06 AV			1.00 H	0	77.14	3.92
3	2483.50	54.36 PK	74.00	-19.64	1.00 H	0	50.36	4.00
4	2483.50	39.60 AV	54.00	-14.40	1.00 H	0	35.60	4.00
5	4934.00	53.04 PK	74.00	-20.96	1.00 H	0	44.61	8.43
6	4934.00	40.80 AV	54.00	-13.20	1.00 H	0	32.37	8.43
7	7401.00	57.18 PK	74.00	-16.82	1.00 H	0	43.10	14.08
8	7401.00	45.00 AV	54.00	-9.00	1.00 H	0	30.92	14.08
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	*2467.00	84.31 PK			1.00 V	150	80.39	3.92
2	*2467.00	78.69 AV			1.00 V	150	74.77	3.92
3	2483.50	52.06 PK	74.00	-21.94	1.00 V	150	48.06	4.00
4	2483.50	38.00 AV	54.00	-16.00	1.00 V	150	34.00	4.00
5	4934.00	53.61 PK	74.00	-20.39	1.00 V	0	45.18	8.43
6	4934.00	41.21 AV	54.00	-12.79	1.00 V	0	32.78	8.43
7	7401.00	56.66 PK	74.00	-17.34	1.00 V	0	42.58	14.08
8	7401.00	44.50 AV	54.00	-9.50	1.00 V	0	30.42	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	88.87 PK			1.00 H	140	84.92	3.95
2	*2472.00	81.71 AV			1.00 H	140	77.76	3.95
3	2483.50	58.11 PK	74.00	-15.89	1.00 H	140	54.11	4.00
4	2483.50	41.10 AV	54.00	-12.90	1.00 H	140	37.10	4.00
5	4944.00	53.24 PK	74.00	-20.76	1.00 H	0	44.78	8.46
6	4944.00	40.65 AV	54.00	-13.35	1.00 H	0	32.19	8.46
7	7416.00	56.39 PK	74.00	-17.61	1.00 H	0	42.26	14.13
8	7416.00	43.89 AV	54.00	-10.11	1.00 H	0	29.76	14.13
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	*2472.00	86.09 PK			1.00 V	270	82.14	3.95
2	*2472.00	80.03 AV			1.00 V	270	76.08	3.95
3	2483.50	53.10 PK	74.00	-20.90	1.00 V	270	49.10	4.00
4	2483.50	37.60 AV	54.00	-16.40	1.00 V	270	33.60	4.00
5	4944.00	53.04 PK	74.00	-20.96	1.00 V	0	44.58	8.46
6	4944.00	40.06 AV	54.00	-13.94	1.00 V	0	31.60	8.46
7	7416.00	56.66 PK	74.00	-17.34	1.00 V	0	42.53	14.13
8	7416.00	42.90 AV	54.00	-11.10	1.00 V	0	28.77	14.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	53.69 PK	74.00	-20.31	1.00 H	25	50.16	3.53
2	2390.00	36.86 AV	54.00	-17.14	1.00 H	25	33.33	3.53
3	*2412.00	89.63 PK			1.00 H	25	85.98	3.65
4	*2412.00	77.47 AV			1.00 H	25	73.82	3.65
5	4824.00	51.25 PK	74.00	-22.75	1.00 H	0	43.20	8.05
6	4824.00	40.50 AV	54.00	-13.50	1.00 H	0	32.45	8.05
7	#7236.00	56.14 PK	74.00	-17.86	1.00 H	0	42.57	13.57
8	#7236.00	43.20 AV	54.00	-10.80	1.00 H	0	29.63	13.57
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	52.97 PK	74.00	-21.03	1.00 V	114	49.44	3.53
2	2390.00	36.03 AV	54.00	-17.97	1.00 V	114	32.50	3.53
3	*2412.00	89.52 PK			1.00 V	114	85.87	3.65
4	*2412.00	77.10 AV			1.00 V	114	73.45	3.65
5	4824.00	52.22 PK	74.00	-21.78	1.00 V	0	44.17	8.05
6	4824.00	42.80 AV	54.00	-11.20	1.00 V	0	34.75	8.05
7	#7236.00	56.51 PK	74.00	-17.49	1.00 V	0	42.94	13.57
8	#7236.00	44.00 AV	54.00	-10.00	1.00 V	0	30.43	13.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	89.05 PK			1.00 H	360	85.28	3.77
2	*2437.00	78.00 AV			1.00 H	360	74.23	3.77
3	4874.00	52.05 PK	74.00	-21.95	1.00 H	0	43.82	8.23
4	4874.00	41.30 AV	54.00	-12.70	1.00 H	0	33.07	8.23
5	7311.00	56.34 PK	74.00	-17.66	1.00 H	0	42.54	13.80
6	7311.00	42.20 AV	54.00	-11.80	1.00 H	0	28.40	13.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	88.64 PK			1.00 V	25	84.87	3.77
2	*2437.00	76.50 AV			1.00 V	25	72.73	3.77
3	4874.00	52.01 PK	74.00	-21.99	1.00 V	0	43.78	8.23
4	4874.00	41.50 AV	54.00	-12.50	1.00 V	0	33.27	8.23
5	7311.00	56.60 PK	74.00	-17.40	1.00 V	0	42.80	13.80
6	7311.00	43.00 AV	54.00	-11.00	1.00 V	0	29.20	13.80

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
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	88.15 PK			1.00 H	65	84.26	3.89
2	*2462.00	75.83 AV			1.00 H	65	71.94	3.89
3	2483.50	50.35 PK	74.00	-23.65	1.00 H	65	46.35	4.00
4	2483.50	35.80 AV	54.00	-18.20	1.00 H	65	31.80	4.00
5	4924.00	52.06 PK	74.00	-21.94	1.00 H	0	43.66	8.40
6	4924.00	40.77 AV	54.00	-13.23	1.00 H	0	32.37	8.40
7	7386.00	55.65 PK	74.00	-18.35	1.00 H	0	41.62	14.03
8	7386.00	42.50 AV	54.00	-11.50	1.00 H	0	28.47	14.03
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	84.49 PK			1.00 V	24	80.60	3.89
2	*2462.00	71.90 AV			1.00 V	24	68.01	3.89
3	2483.50	46.36 PK	74.00	-27.64	1.00 V	24	42.36	4.00
4	2483.50	34.60 AV	54.00	-19.40	1.00 V	24	30.60	4.00
5	4924.00	52.34 PK	74.00	-21.66	1.00 V	0	43.94	8.40
6	4924.00	40.50 AV	54.00	-13.50	1.00 V	0	32.10	8.40
7	7386.00	55.46 PK	74.00	-18.54	1.00 V	0	41.43	14.03
8	7386.00	43.25 AV	54.00	-10.75	1.00 V	0	29.22	14.03

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 12	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	*2467.00	90.06 PK			1.00 H	53	86.14	3.92
2	*2467.00	78.10 AV			1.00 H	53	74.18	3.92
3	2483.50	57.24 PK	74.00	-16.76	1.00 H	53	53.24	4.00
4	2483.50	40.03 AV	54.00	-13.97	1.00 H	53	36.03	4.00
5	4934.00	52.14 PK	74.00	-21.86	1.00 H	0	43.71	8.43
6	4934.00	40.30 AV	54.00	-13.70	1.00 H	0	31.87	8.43
7	7401.00	56.24 PK	74.00	-17.76	1.00 H	0	42.16	14.08
8	7401.00	43.20 AV	54.00	-10.80	1.00 H	0	29.12	14.08
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	*2467.00	85.14 PK			1.00 V	230	81.22	3.92
2	*2467.00	72.60 AV			1.00 V	230	68.68	3.92
3	2483.50	53.11 PK	74.00	-20.89	1.00 V	230	49.11	4.00
4	2483.50	38.00 AV	54.00	-16.00	1.00 V	230	34.00	4.00
5	4934.00	52.08 PK	74.00	-21.92	1.00 V	0	43.65	8.43
6	4934.00	40.00 AV	54.00	-14.00	1.00 V	0	31.57	8.43
7	7401.00	55.55 PK	74.00	-18.45	1.00 V	0	41.47	14.08
8	7401.00	44.44 AV	54.00	-9.56	1.00 V	0	30.36	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	90.41 PK			1.00 H	0	86.46	3.95
2	*2472.00	78.10 AV			1.00 H	0	74.15	3.95
3	2483.50	61.65 PK	74.00	-12.35	1.00 H	0	57.65	4.00
4	2483.50	42.98 AV	54.00	-11.02	1.00 H	0	38.98	4.00
5	4944.00	51.11 PK	74.00	-22.89	1.00 H	0	42.65	8.46
6	4944.00	40.06 AV	54.00	-13.94	1.00 H	0	31.60	8.46
7	7416.00	56.36 PK	74.00	-17.64	1.00 H	0	42.23	14.13
8	7416.00	43.50 AV	54.00	-10.50	1.00 H	0	29.37	14.13
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	*2472.00	86.42 PK			1.00 V	65	82.47	3.95
2	*2472.00	74.60 AV			1.00 V	65	70.65	3.95
3	2483.50	54.48 PK	74.00	-19.52	1.00 V	65	50.48	4.00
4	2483.50	40.10 AV	54.00	-13.90	1.00 V	65	36.10	4.00
5	4944.00	53.16 PK	74.00	-20.84	1.00 V	0	44.70	8.46
6	4944.00	40.30 AV	54.00	-13.70	1.00 V	0	31.84	8.46
7	7416.00	55.93 PK	74.00	-18.07	1.00 V	0	41.80	14.13
8	7416.00	44.00 AV	54.00	-10.00	1.00 V	0	29.87	14.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	54.46 PK	74.00	-19.54	1.00 H	58	50.93	3.53
2	2390.00	36.90 AV	54.00	-17.10	1.00 H	58	33.37	3.53
3	*2412.00	88.54 PK			1.00 H	58	84.89	3.65
4	*2412.00	76.02 AV			1.00 H	58	72.37	3.65
5	4824.00	51.98 PK	74.00	-22.02	1.00 H	0	43.93	8.05
6	4824.00	40.80 AV	54.00	-13.20	1.00 H	0	32.75	8.05
7	#7236.00	55.97 PK	74.00	-18.03	1.00 H	0	42.40	13.57
8	#7236.00	44.10 AV	54.00	-9.90	1.00 H	0	30.53	13.57
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	53.50 PK	74.00	-20.50	1.00 V	260	49.97	3.53
2	2390.00	35.70 AV	54.00	-18.30	1.00 V	260	32.17	3.53
3	*2412.00	86.12 PK			1.00 V	260	82.47	3.65
4	*2412.00	73.60 AV			1.00 V	260	69.95	3.65
5	4824.00	53.47 PK	74.00	-20.53	1.00 V	0	45.42	8.05
6	4824.00	43.60 AV	54.00	-10.40	1.00 V	0	35.55	8.05
7	#7236.00	55.90 PK	74.00	-18.10	1.00 V	0	42.33	13.57
8	#7236.00	43.24 AV	54.00	-10.76	1.00 V	0	29.67	13.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	89.80 PK			1.00 H	100	86.03	3.77
2	*2437.00	76.14 AV			1.00 H	100	72.37	3.77
3	4874.00	52.34 PK	74.00	-21.66	1.00 H	0	44.11	8.23
4	4874.00	41.60 AV	54.00	-12.40	1.00 H	0	33.37	8.23
5	7311.00	55.46 PK	74.00	-18.54	1.00 H	0	41.66	13.80
6	7311.00	43.13 AV	54.00	-10.87	1.00 H	0	29.33	13.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	85.50 PK			1.00 V	140	81.73	3.77
2	*2437.00	72.89 AV			1.00 V	140	69.12	3.77
3	4874.00	52.08 PK	74.00	-21.92	1.00 V	0	43.85	8.23
4	4874.00	42.60 AV	54.00	-11.40	1.00 V	0	34.37	8.23
5	7311.00	56.70 PK	74.00	-17.30	1.00 V	0	42.90	13.80
6	7311.00	43.30 AV	54.00	-10.70	1.00 V	0	29.50	13.80

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
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	87.93 PK			1.00 H	50	84.04	3.89
2	*2462.00	75.14 AV			1.00 H	50	71.25	3.89
3	2483.50	50.41 PK	74.00	-23.59	1.00 H	50	46.41	4.00
4	2483.50	37.60 AV	54.00	-16.40	1.00 H	50	33.60	4.00
5	4924.00	52.27 PK	74.00	-21.73	1.00 H	0	43.87	8.40
6	4924.00	40.31 AV	54.00	-13.69	1.00 H	0	31.91	8.40
7	7386.00	55.88 PK	74.00	-18.12	1.00 H	0	41.85	14.03
8	7386.00	43.50 AV	54.00	-10.50	1.00 H	0	29.47	14.03
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	85.06 PK			1.00 V	250	81.17	3.89
2	*2462.00	73.09 AV			1.00 V	250	69.20	3.89
3	2483.50	47.70 PK	74.00	-26.30	1.00 V	250	43.70	4.00
4	2483.50	36.40 AV	54.00	-17.60	1.00 V	250	32.40	4.00
5	4924.00	53.36 PK	74.00	-20.64	1.00 V	0	44.96	8.40
6	4924.00	42.75 AV	54.00	-11.25	1.00 V	0	34.35	8.40
7	7386.00	55.69 PK	74.00	-18.31	1.00 V	0	41.66	14.03
8	7386.00	44.24 AV	54.00	-9.76	1.00 V	0	30.21	14.03

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

CHANNEL	TX Channel 12	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	*2467.00	91.29 PK			1.00 H	65	87.37	3.92
2	*2467.00	79.86 AV			1.00 H	65	75.94	3.92
3	2483.50	55.94 PK	74.00	-18.06	1.00 H	65	51.94	4.00
4	2483.50	40.35 AV	54.00	-13.65	1.00 H	65	36.35	4.00
5	4934.00	52.22 PK	74.00	-21.78	1.00 H	0	43.79	8.43
6	4934.00	41.60 AV	54.00	-12.40	1.00 H	0	33.17	8.43
7	7401.00	56.34 PK	74.00	-17.66	1.00 H	0	42.26	14.08
8	7401.00	43.10 AV	54.00	-10.90	1.00 H	0	29.02	14.08
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	*2467.00	87.66 PK			1.00 V	148	83.74	3.92
2	*2467.00	75.16 AV			1.00 V	148	71.24	3.92
3	2483.50	53.09 PK	74.00	-20.91	1.00 V	148	49.09	4.00
4	2483.50	39.60 AV	54.00	-14.40	1.00 V	148	35.60	4.00
5	4934.00	53.02 PK	74.00	-20.98	1.00 V	0	44.59	8.43
6	4934.00	42.12 AV	54.00	-11.88	1.00 V	0	33.69	8.43
7	7401.00	55.90 PK	74.00	-18.10	1.00 V	0	41.82	14.08
8	7401.00	43.00 AV	54.00	-11.00	1.00 V	0	28.92	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "* ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	89.66 PK			1.00 H	56	85.72	3.94
2	*2472.00	77.05 AV			1.00 H	56	73.11	3.94
3	2483.50	65.36 PK	74.00	-8.64	1.00 H	56	61.36	4.00
4	2483.50	43.15 AV	54.00	-10.85	1.00 H	56	39.15	4.00
5	4944.00	53.64 PK	74.00	-20.36	1.00 H	0	45.18	8.46
6	4944.00	42.03 AV	54.00	-11.97	1.00 H	0	33.57	8.46
7	7416.00	56.39 PK	74.00	-17.61	1.00 H	0	42.26	14.13
8	7416.00	44.20 AV	54.00	-9.80	1.00 H	0	30.07	14.13
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	*2472.00	86.47 PK			1.00 V	54	82.52	3.95
2	*2472.00	75.12 AV			1.00 V	54	71.17	3.95
3	2483.50	60.14 PK	74.00	-13.86	1.00 V	54	56.14	4.00
4	2483.50	40.50 AV	54.00	-13.50	1.00 V	54	36.50	4.00
5	4944.00	54.82 PK	74.00	-19.18	1.00 V	0	46.36	8.46
6	4944.00	40.25 AV	54.00	-13.75	1.00 V	0	31.79	8.46
7	7416.00	56.39 PK	74.00	-17.61	1.00 V	0	42.26	14.13
8	7416.00	44.01 AV	54.00	-9.99	1.00 V	0	29.88	14.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. "*" : Fundamental frequency.

4.2. 6dB BANDWIDTH MEASUREMENT

4.2.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 22,20	May 21,21
Power Sensor	Keysight	U2021XA	MY55060018	May 22,20	May 21,21
Power Meter	Anritsu	ML2495A	1139001	Mar. 18,20	Mar. 17,21
Power Sensor	Anritsu	MA2411B	1531155	Mar. 18,20	Mar. 17,21
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 17, 19	Oct.16, 20
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct.31,19	Oct. 30,20
Oscilloscope	Agilent	DSO9254A	MY51260160	Sep. 18,19	Sep. 17,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 18,20	Mar. 17,21
Signal Generator	Agilent	N5183A	MY50140980	Sep. 19,19	Sep. 18,20
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 12,19	Sep. 11,20
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

NOTES: 1. The test was performed in RF Oven room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

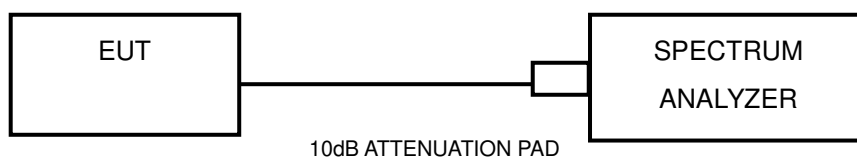
4.2.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 100KHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
3. Trace mode = max hold.
4. Sweep = auto couple.
5. 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.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



4.2.6 EUT OPERATING CONDITIONS

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

4.2.7 TEST RESULTS

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	10.08	0.5	PASS
6	2437	10.08	0.5	PASS
11	2462	10.12	0.5	PASS
12	2467	10.09	0.5	PASS
13	2472	10.10	0.5	PASS

802.11g

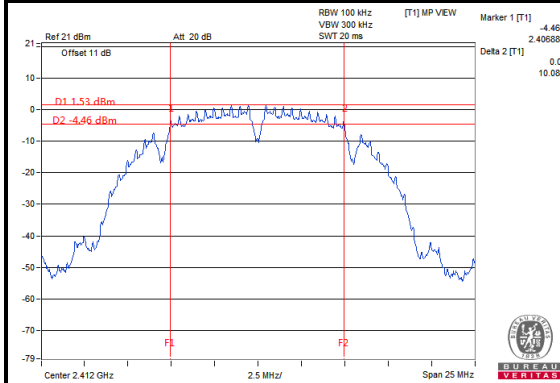
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.38	0.5	PASS
6	2437	16.38	0.5	PASS
11	2462	16.37	0.5	PASS
12	2467	16.39	0.5	PASS
13	2472	16.38	0.5	PASS

802.11n HT20

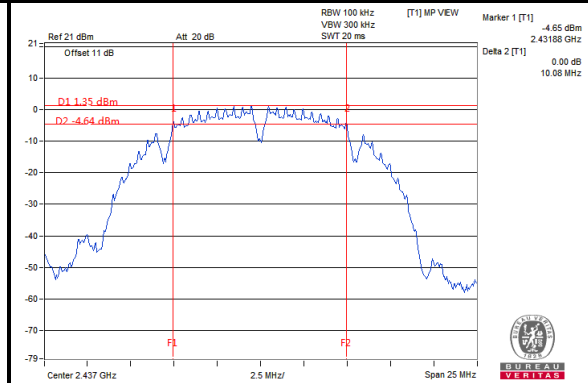
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.35	0.5	PASS
6	2437	17.36	0.5	PASS
11	2462	17.36	0.5	PASS
12	2467	17.14	0.5	PASS
13	2472	17.35	0.5	PASS

SPECTRUM PLOT OF 6dB BANDWIDTH

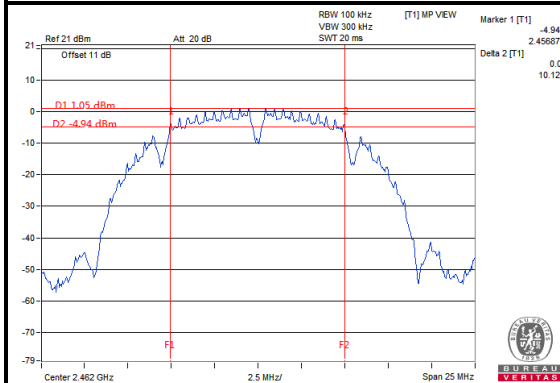
802.11b_CH1



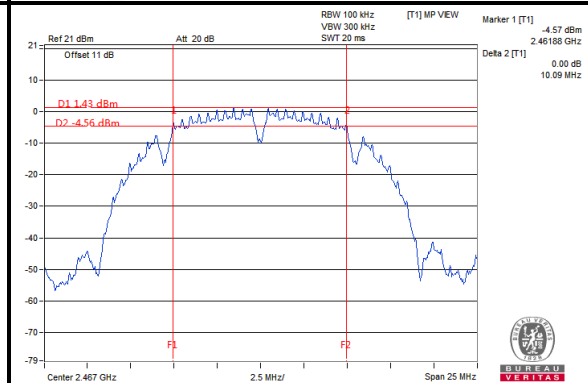
802.11b_CH6



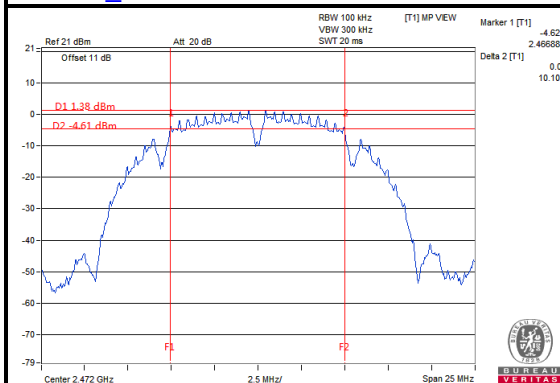
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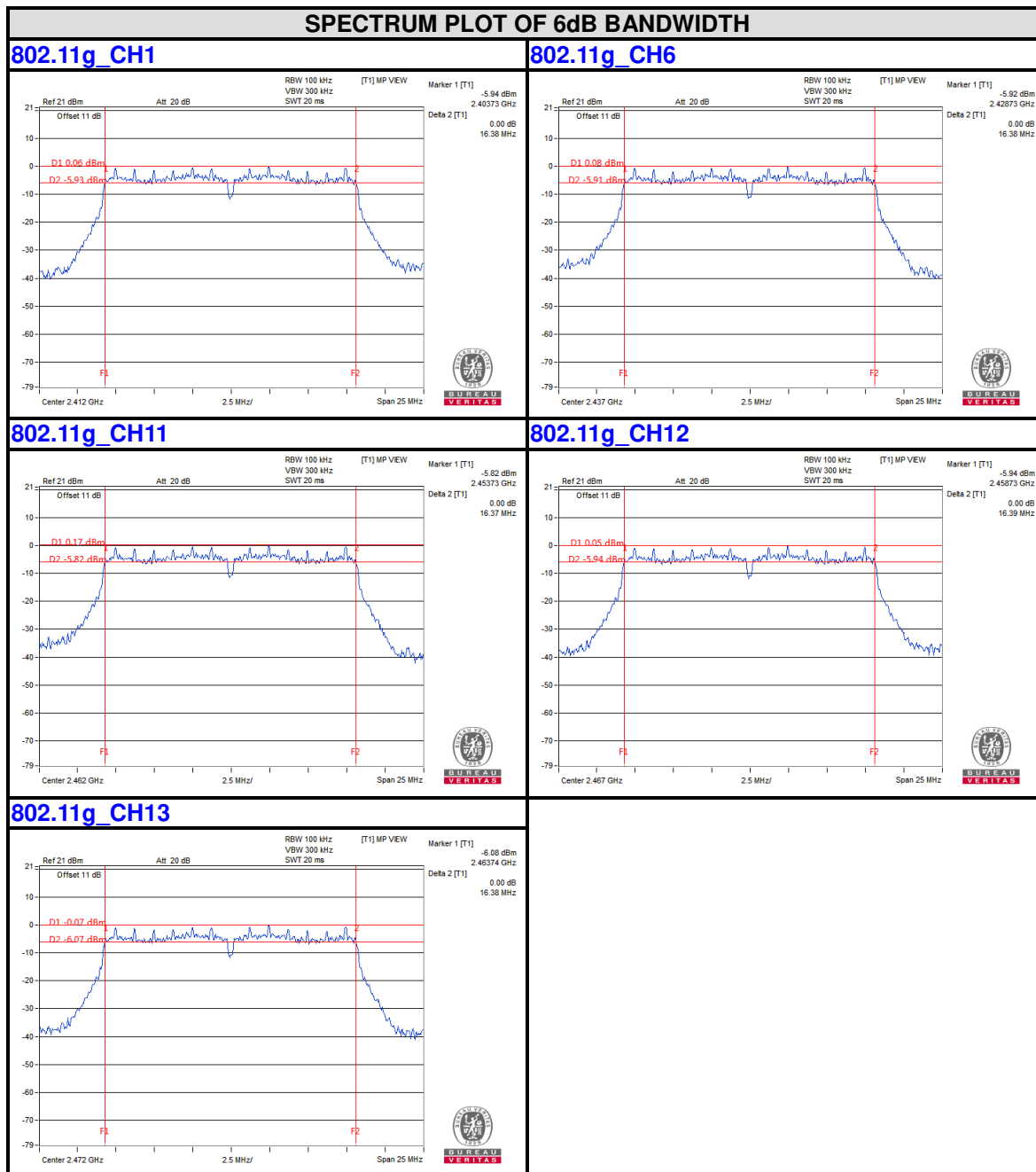


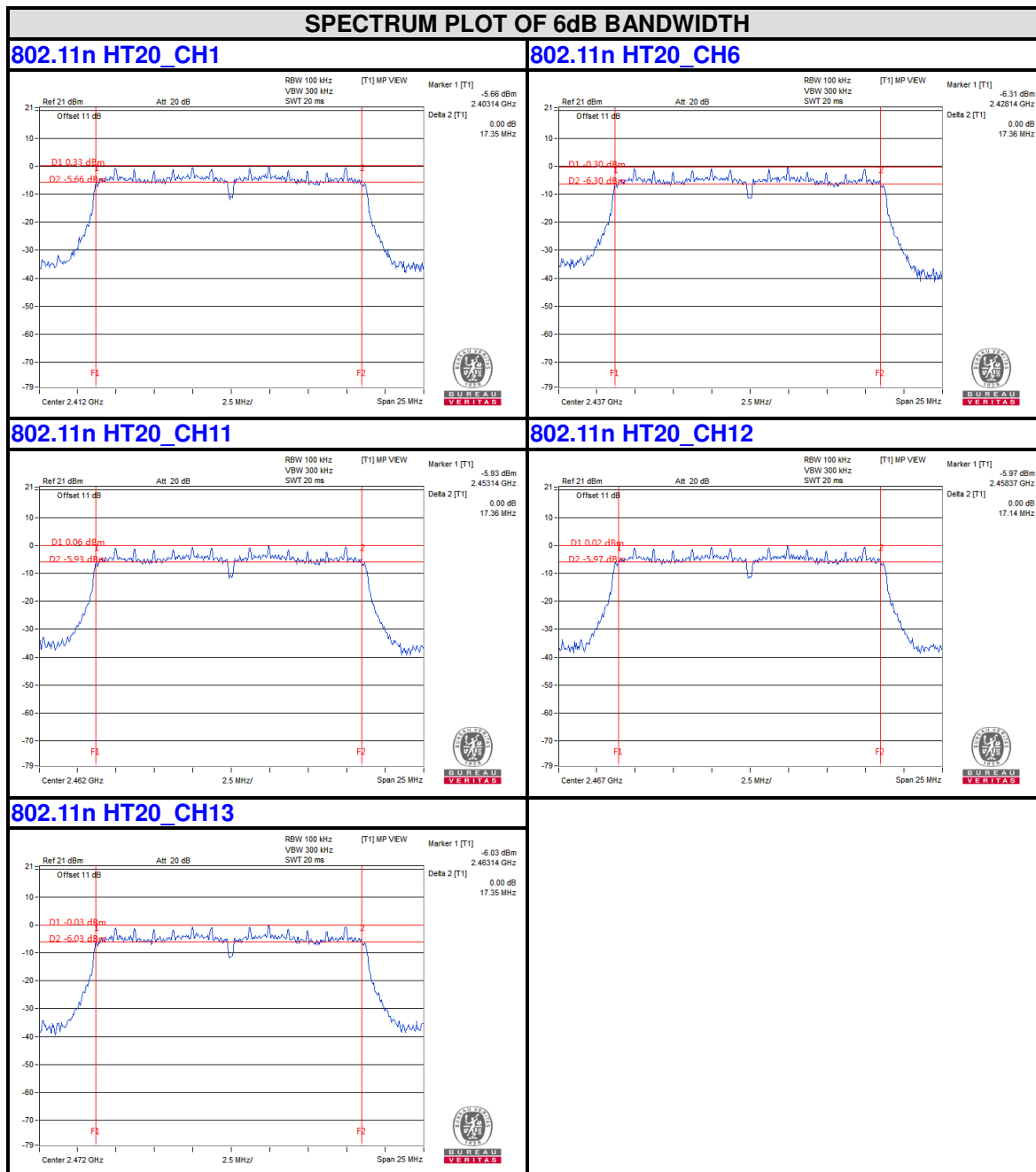
802.11b_CH12



802.11b_CH13





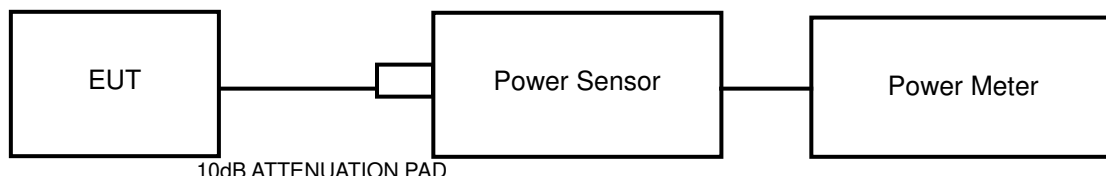


4.3 CONDUCTED OUTPUT POWER

4.3.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

4.3.2 TEST SETUP



4.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 22,20	May 21,21
Power Sensor	Keysight	U2021XA	MY55060018	May 22,20	May 21,21
Power Meter	Anritsu	ML2495A	1139001	Mar. 18,20	Mar. 17,21
Power Sensor	Anritsu	MA2411B	1531155	Mar. 18,20	Mar. 17,21
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 17, 19	Oct.16, 20
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct.31,19	Oct. 30,20
Oscilloscope	Agilent	DSO9254A	MY51260160	Sep. 18,19	Sep. 17,20
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Mar. 18,20	Mar. 17,21
Signal Generator	Agilent	N5183A	MY50140980	Sep. 19,19	Sep. 18,20
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 12,19	Sep. 11,20
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.3.4 TEST PROCEDURES

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

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

4.3.6 EUT OPERATING CONDITIONS

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

4.3.7 TEST RESULTS

MAXIMUM PEAK OUTPUT POWER

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	13.98	25.003	1	PASS
6	2437	13.72	23.550	1	PASS
11	2462	13.89	24.491	1	PASS
12	2467	13.55	22.646	1	PASS
13	2472	13.95	24.831	1	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	19.18	82.794	1	PASS
6	2437	18.96	78.705	1	PASS
11	2462	19.08	80.91	1	PASS
12	2467	19.14	82.035	1	PASS
13	2472	19.11	81.47	1	PASS

802.11n HT20

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	19.53	89.743	1	PASS
6	2437	19.13	81.846	1	PASS
11	2462	19.17	82.604	1	PASS
12	2467	19.26	84.333	1	PASS
13	2472	19.22	83.560	1	PASS

AVERAGE OUTPUT POWER (FOR REFERENCE)

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

802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	11.20	13.183
6	2437	10.90	12.303
11	2462	10.53	11.298
12	2467	10.67	11.668
13	2472	10.89	12.274

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	11.34	13.614
6	2437	10.87	12.218
11	2462	11.07	12.794
12	2467	11.21	13.213
13	2472	11.18	13.122

802.11n HT20

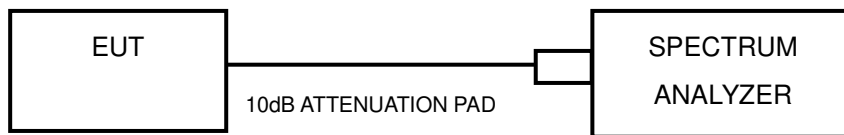
CHANNEL	CHANNEL FREQUENCY (MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	11.47	14.028
6	2437	10.79	11.995
11	2462	10.81	12.050
12	2467	11.31	13.521
13	2472	11.18	13.122

4.4 POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm/3KHz.

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.4.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to 1.5 times the DTS bandwidth.
- c) Set RBW to: 3KHz
- d) Set VBW $\geq 3 \times$ RBW.
- e) Detector = peak
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times$ span/RBW.
- g) Sweep time = auto couple.
- h) Use the peak marker function to determine the maximum amplitude level.

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITION

Same as item 4.3.6.

4.4.7 TEST RESULTS

802.11b

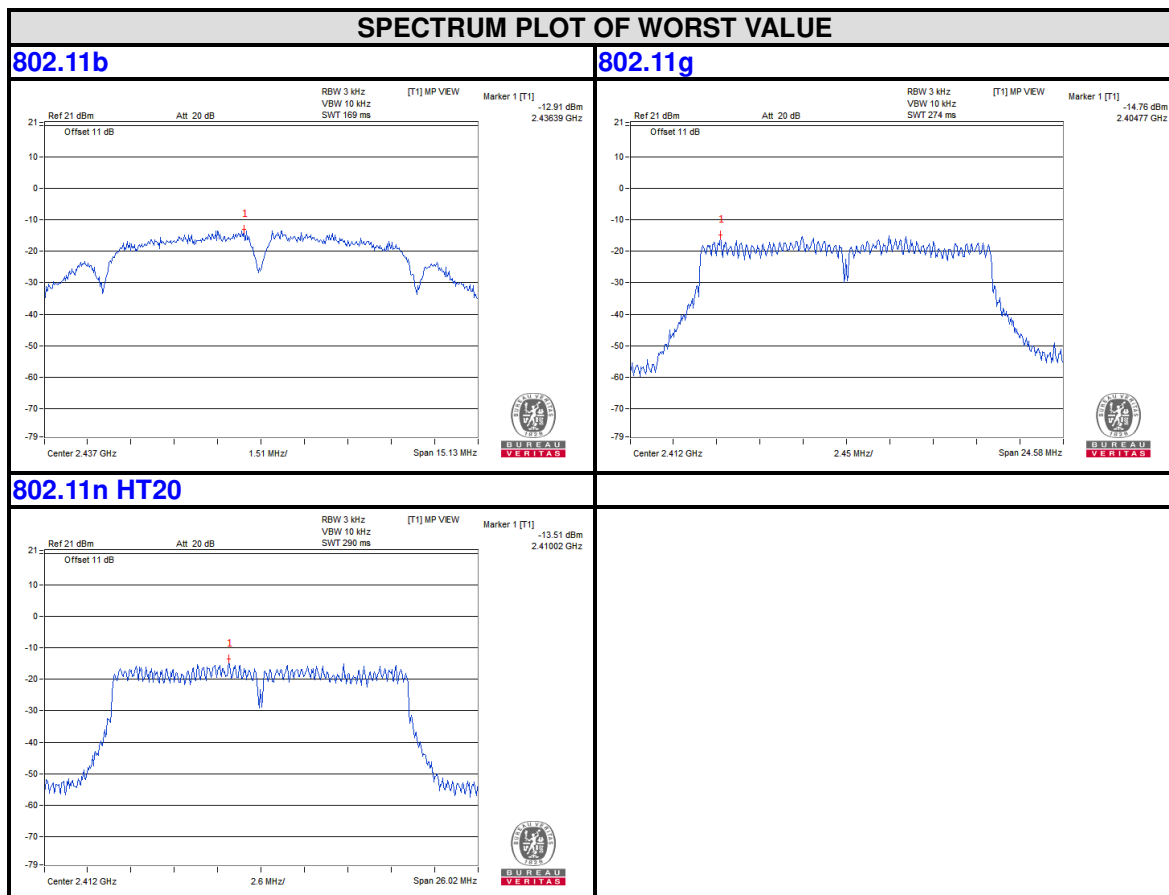
Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.54	8.00	PASS
6	2437	-12.91	8.00	PASS
11	2462	-13.11	8.00	PASS
12	2467	-13.10	8.00	PASS
13	2472	-13.48	8.00	PASS

802.11g

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-14.76	8.00	PASS
6	2437	-15.33	8.00	PASS
11	2462	-14.95	8.00	PASS
12	2467	-15.73	8.00	PASS
13	2472	-15.03	8.00	PASS

802.11n HT20

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-13.51	8.00	PASS
6	2437	-14.60	8.00	PASS
11	2462	-14.26	8.00	PASS
12	2467	-15.07	8.00	PASS
13	2472	-15.23	8.00	PASS



4.5 OUT OF BAND EMISSION MEASUREMENT

4.5.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

4.5.2 TEST SETUP



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

4.5.4 TEST PROCEDURE

Measurement Procedure - Reference Level

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 –Unwanted Emission Level

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Set span to encompass the spectrum to be examined
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

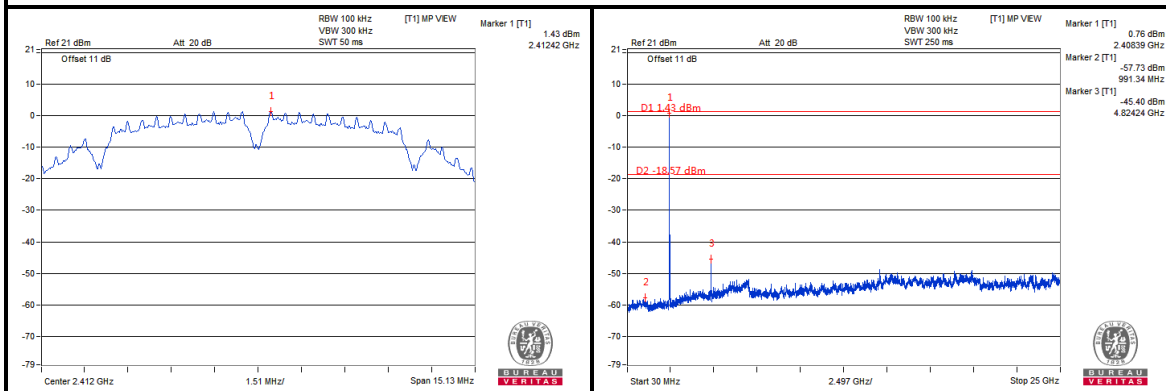
4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6

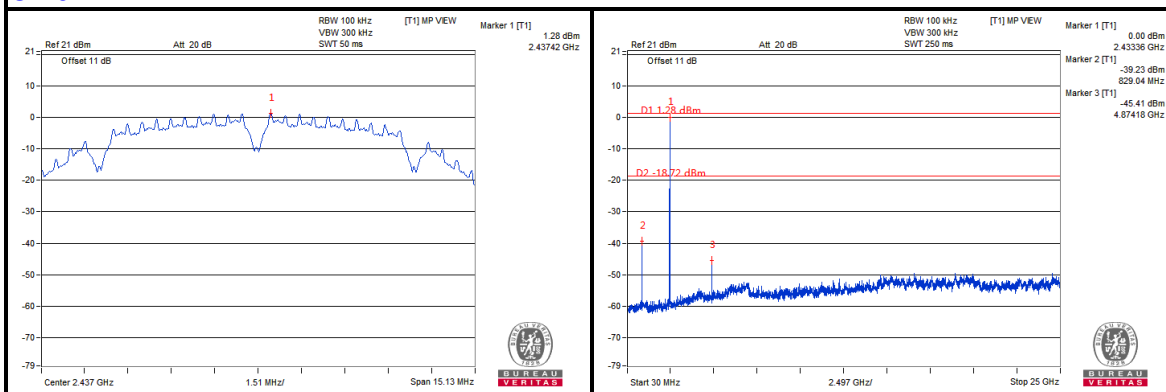
4.5.7 TEST RESULTS

802.11b

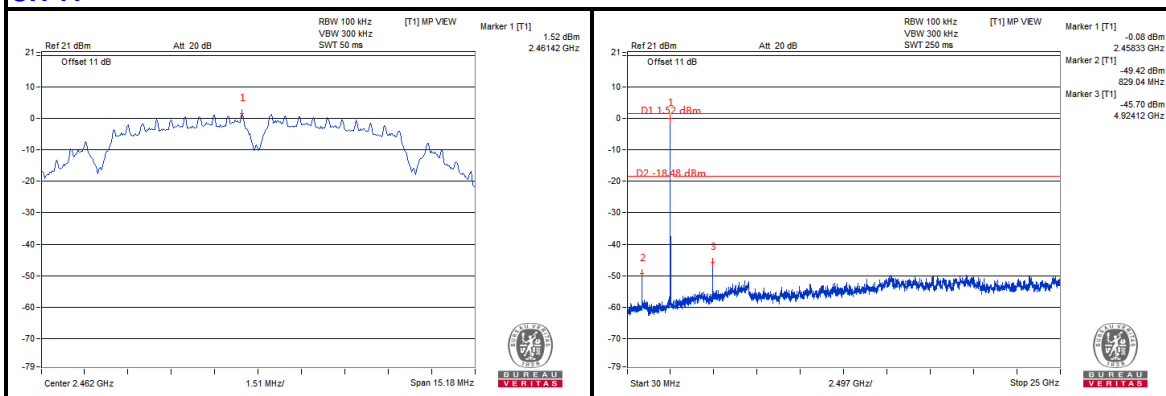
CH 1



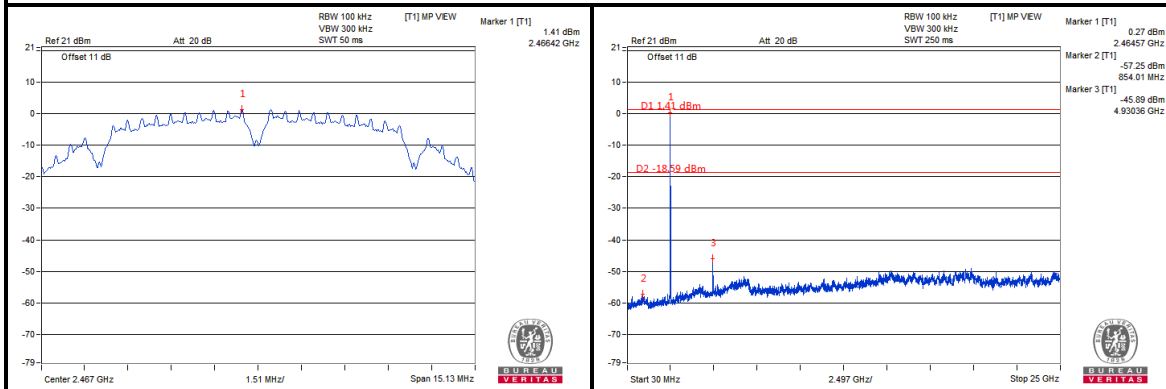
CH 6



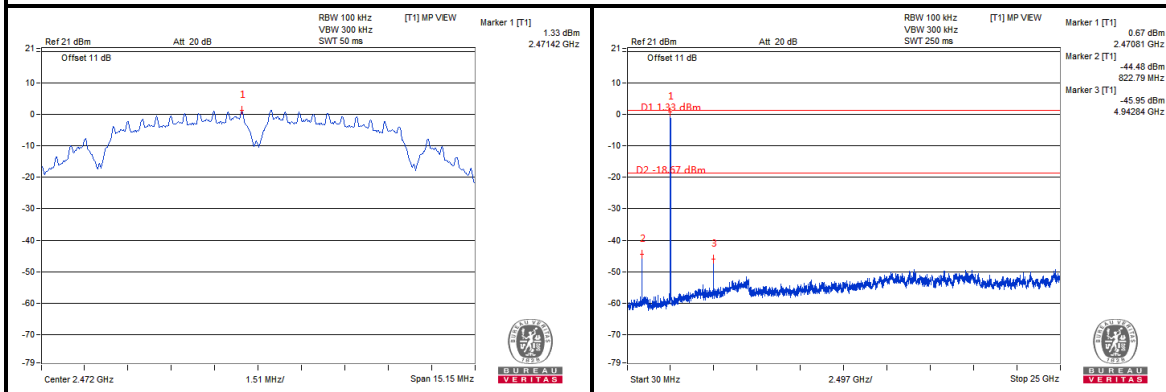
CH 11



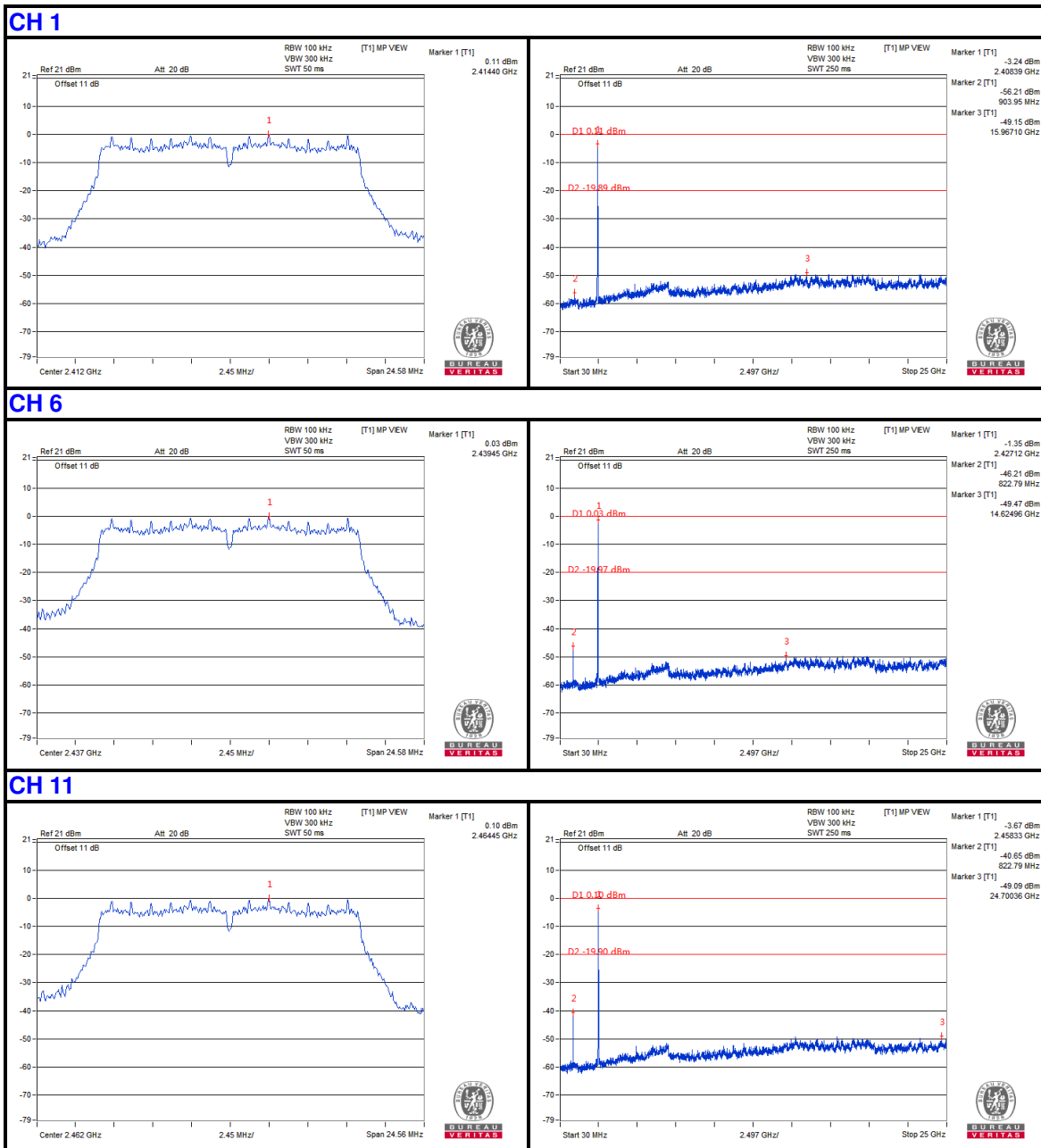
CH 12



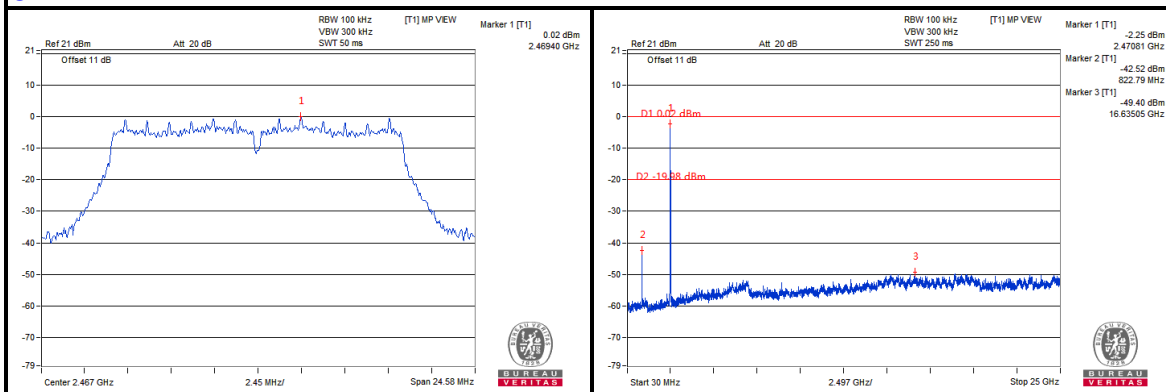
CH 13



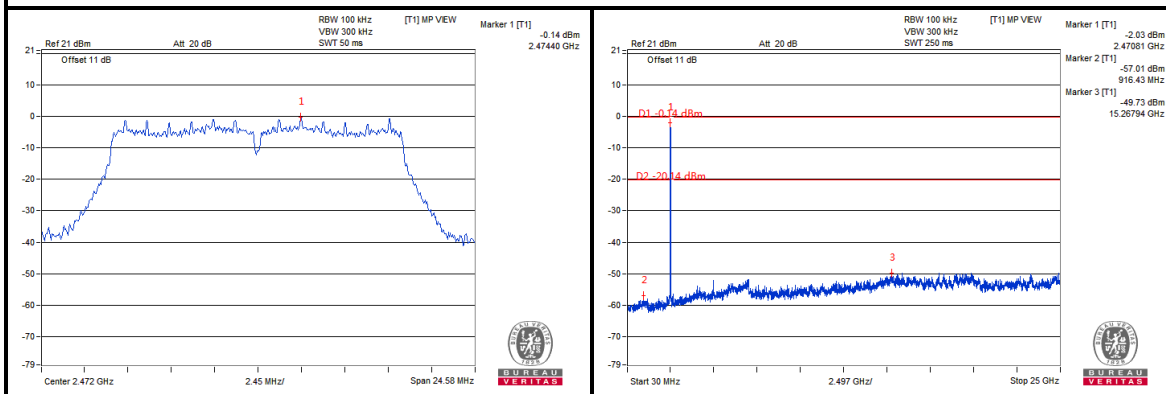
802.11g



CH 12

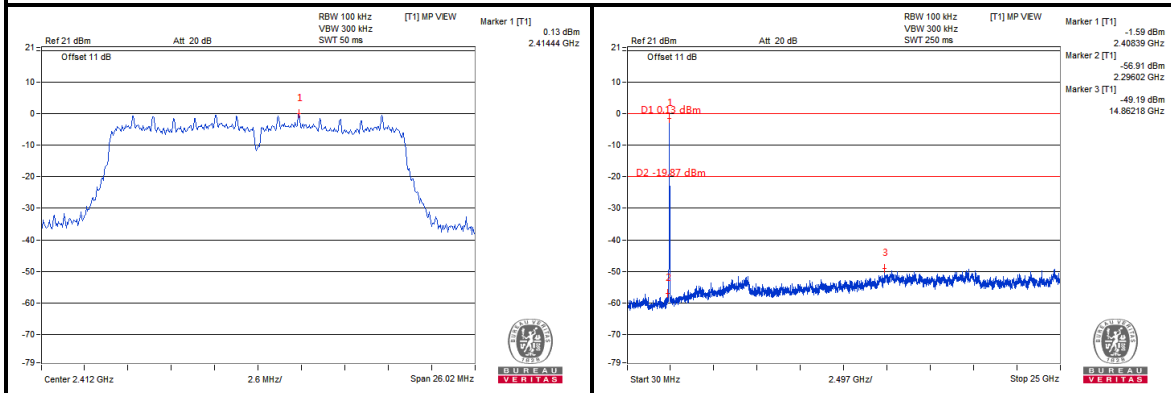


CH 13

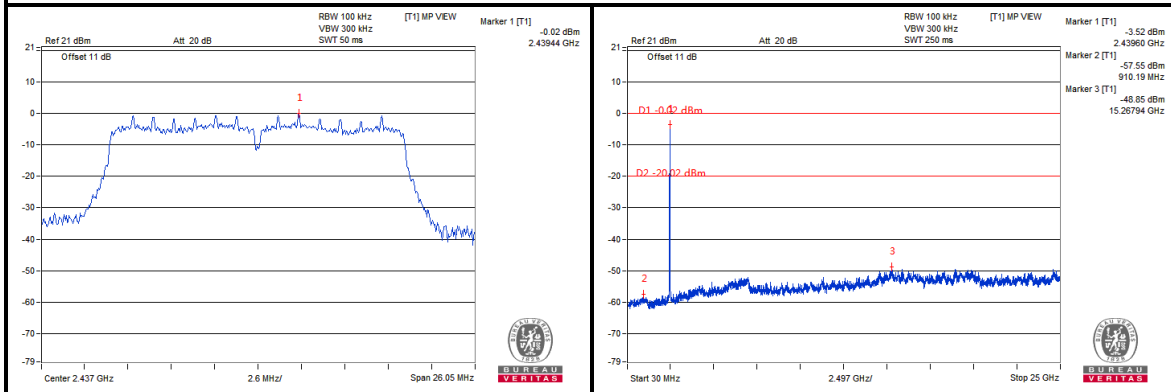


802.11n HT20

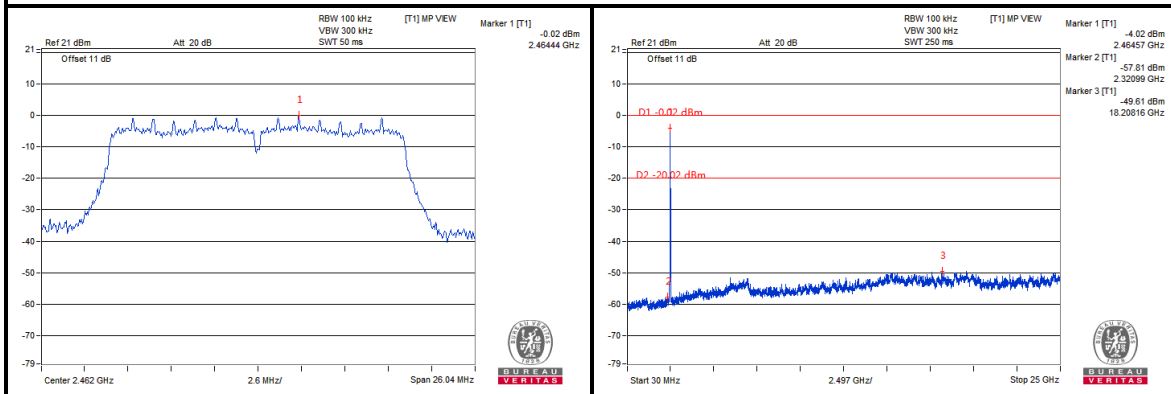
CH 1



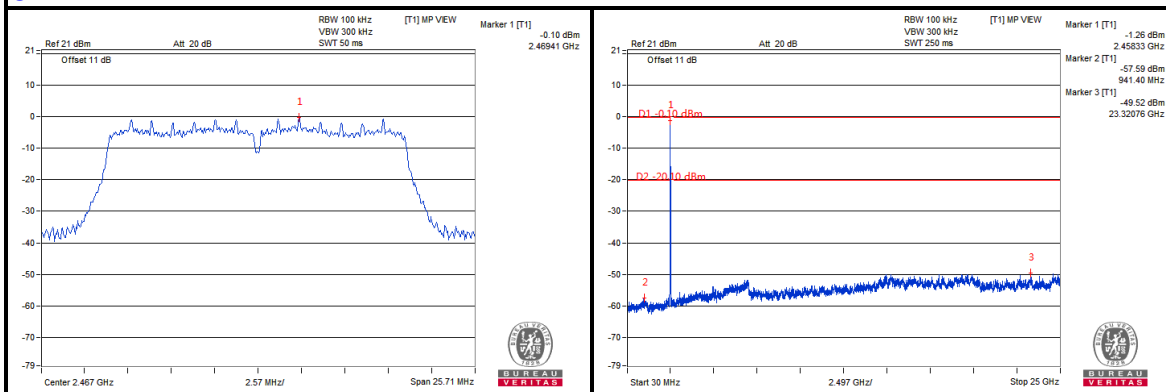
CH 6



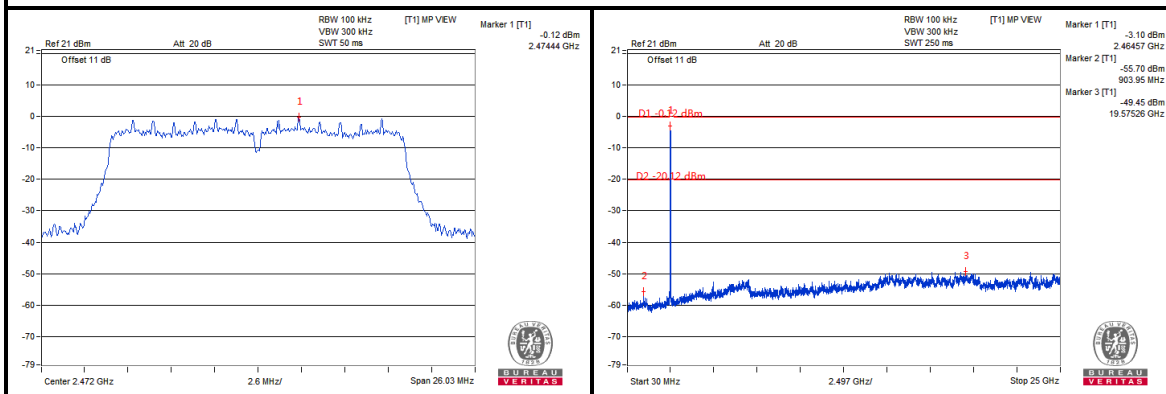
CH 11



CH 12

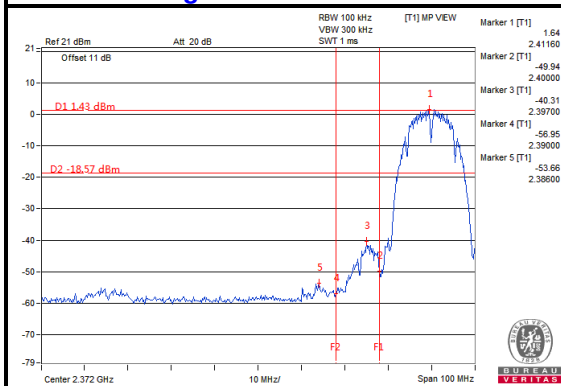


CH 13

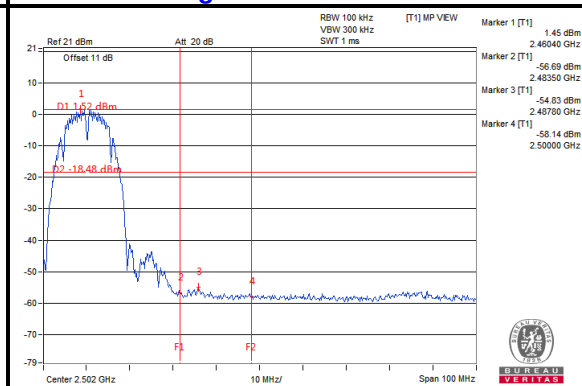


802.11b

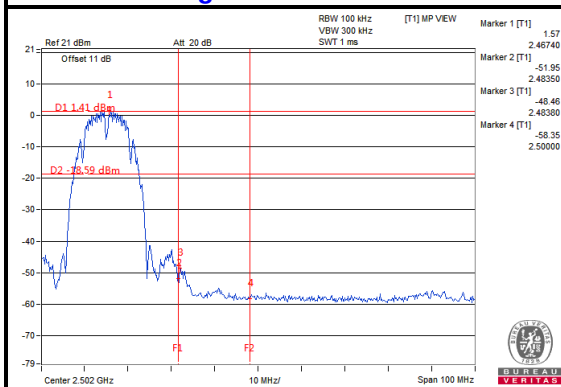
CH 1 Band edge



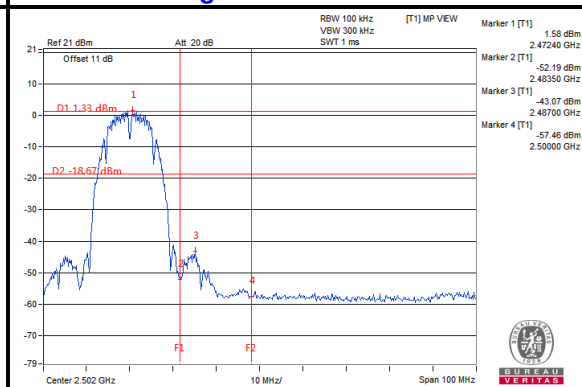
CH 11 Band edge



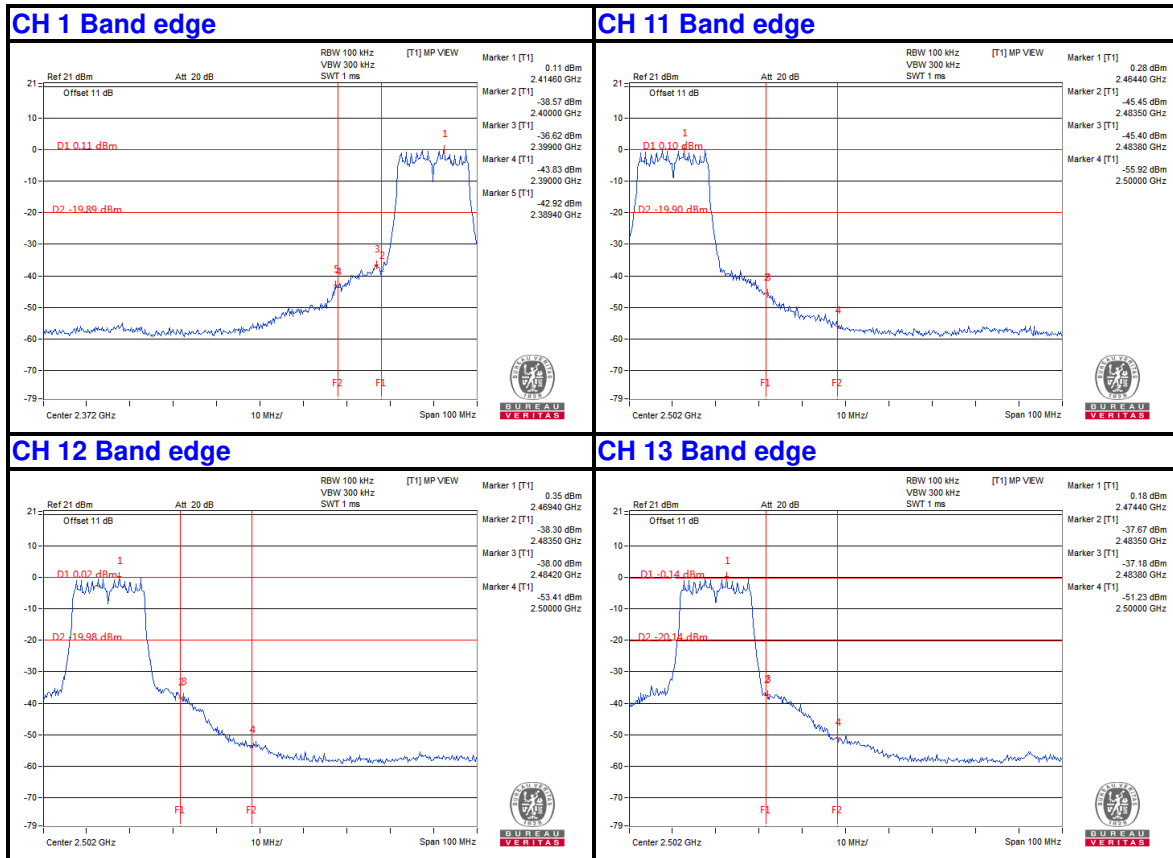
CH 12 Band edge



CH 13 Band edge

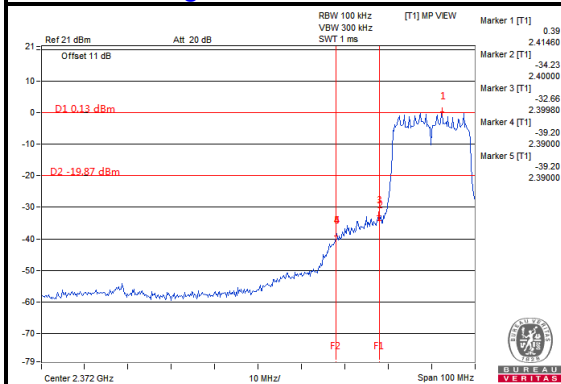


802.11g

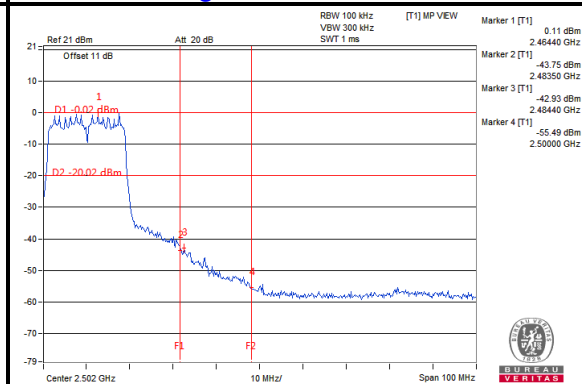


802.11n HT20

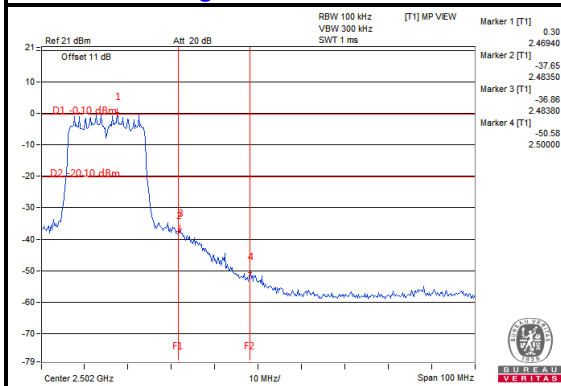
CH 1 Band edge



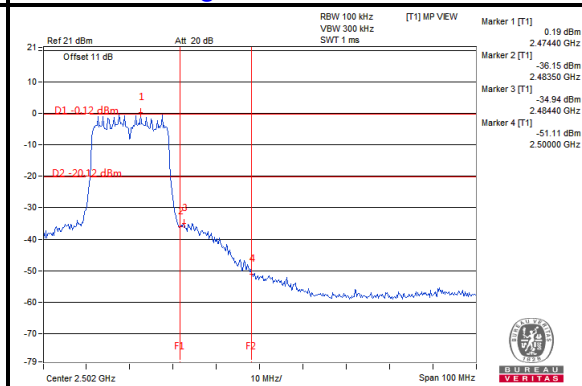
CH 11 Band edge



CH 12 Band edge



CH 13 Band edge



5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

6 APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---