

TEST REPORT

Applicant:	GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Address:	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Chenghai District, Shantou City.

Manufacturer or Supplier	GUANGDONG HENGDI TECHNOLOGY CORP., LTD.
Address	Building C, Jinhui Industrial Building, South of Yuting Road, East of Taian Road, Chenghai District, Shantou City.
Product	Drone Mach 10inch with Camera Streaming
Brand Name	Sharper Image
Model	1019558
Additional Model & Model Difference	101XXXX (where XXXX can be digits 0000-9999 which represent different customers), see items 3.1
Date of tests	Jun. 09, 2025 ~ Jun. 16, 2025

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

Prepared by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: Jun. 26, 2025

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Test Report No.: RF2506WDG0047-1

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2506WDG0047-1	Original release	Jun. 26, 2025

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	Antenna connector is i-pex not a standard connector.

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
Conducted emissions	9kHz~30MHz	3.36dB
Radiated emissions	30MHz ~ 1GMHz	4.65dB
	1GHz ~ 18GHz	5.01dB
	18GHz ~ 40GHz	4.10dB

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	Drone Mach 10inch with Camera Streaming
MODEL NO.	1019558
ADDITIONAL MODELS	101XXXX (where XXXX can be digits 0000-9999 which represent different customers)
FCC ID	2AWZKHD25F24GR
NOMINAL VOLTAGE	Plane: DC 3.7V from Li-ion Battery; USB Charger: DC 5V from USB Host Unit
MODULATION TECHNOLOGY	DSSS, OFDM, GFSK
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
OPERATING FREQUENCY	2412-2462MHz for 11b/g/n(HT20)
PEAK OUTPUT POWER	5.047mw (Maximum)
ANTENNA TYPE	Monopole Antenna, 0dBi Gain For WIFI
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB Charger Cabel: Unshielded, non-detachable, 60cm

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. Please refer to the EUT photo document (Reference No.: 2506WDG0047-1) for detailed product photo.
4. Additional models (see above table) are identical with the test model 1019558 except model no. for trading purposes.
5. When the EUT is in charging mode, that RF function can't work.
6. The EUT incorporates a SISO function. Physically, the EUT provides one transmitter and one receiver.

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

3.2 DESCRIPTION OF TEST MODES

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412 MHz	7	2442 MHz
2	2417 MHz	8	2447 MHz
3	2422 MHz	9	2452 MHz
4	2427 MHz	10	2457 MHz
5	2432 MHz	11	2462 MHz
6	2437 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, power supply voltage range 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 Battery

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 11	1	DSSS	DBPSK	6.0

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 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n HT20	1 to 11	1, 6, 11	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 11	1, 6, 11	DSSS	DBPSK	1.0
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
A	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	25deg. C, 51%RH	DC 3.7V from Battery	Ludius
RE≥1G	25deg. C, 51%RH	DC 3.7V from Battery	Ludius
PLC	-	-	-
APCM	25deg. C, 60%RH	DC 3.7V from Battery	Jeffery

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

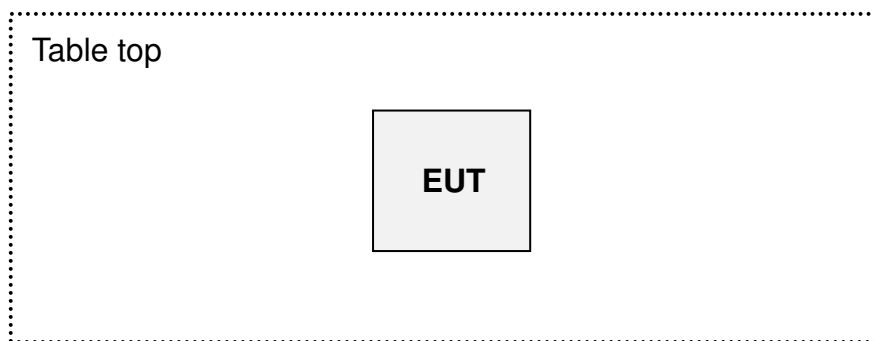
All test items have been performed and recorded as per the above standards.

3.4 DESCRIPTION OF SUPPORT UNITS

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

3.5 CONFIGURATION OF SYSTEM UNDER TEST

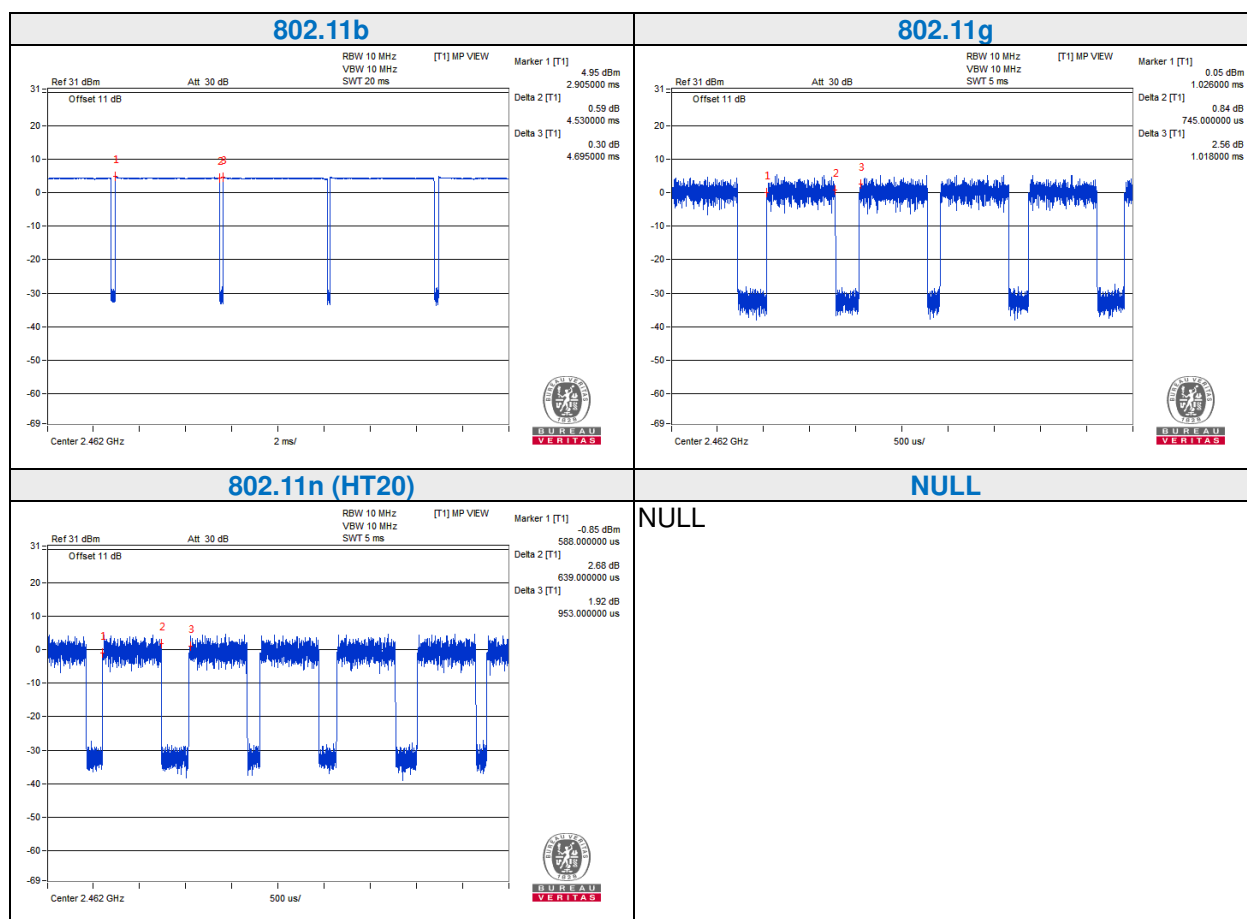
For Radiated Emission Test



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

3.6 DUTY CYCLE OF TESET SIGNAL

Test Mode	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty factor (dB)	1/T Min. VBW (KHz)	VBW Setting
802.11b	4.530	4.695	96.49	-0.16	0.221	300Hz
802.11g	0.745	1.018	73.18	-1.36	1.342	3KHz
802.11n (HT20)	0.639	0.953	67.05	-1.74	1.565	3KHz



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

NOTE:

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.	Next Cal.
Spectrum Analyzer	Rohde&Schwarz	FSV3044	101326	Apr. 10, 26
EMI Test Receiver	Rohde&Schwarz	ESCI3	101418	Jul. 08, 25
Bilog Antenna	SCHWARZBECK	VULB 9168	9168-555	Nov. 07, 25
Pre-Amplifier	Agilent	8447D	2944A10488	July. 23, 25
3m Semi-anechoic Chamber	ETS-Lindgren	9m*6m*6m	D3040003DG-1	July 30, 25
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAR-NMBNCM-2000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAR-BNCMSMM-500	2100033742	July 02, 25
Test software	ADT	ADT Radiated_V7.6.15.9.2	N/A	N/A
Horn Antenna	ETS-Lindgren	3117	00240040	Apr. 19, 26
Horn Antenna	SCHWARZBECK	BBHA 9170	01024	Oct. 16, 25
Pre-Amplifier (1GHz-18GHz)	Rohde&Schwarz	SCU18	102265	July. 23, 25
Pre-Amplifier (18GHz-40GHz)	Rohde&Schwarz	SCU40	100437	Nov. 28, 25
Coaxial RF Cable	Joinfront	JFAA6-NMNM-8000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-2000	2100033742	July 02, 25
Coaxial RF Cable	Joinfront	JFAA6-NMSMM-800	2100033742	July 02, 25

NOTES:

1. The test was performed in 966 Chamber.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.
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. Designation Number: CN1174.

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 1.3m above the ground.
- a. 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.

NOTE:

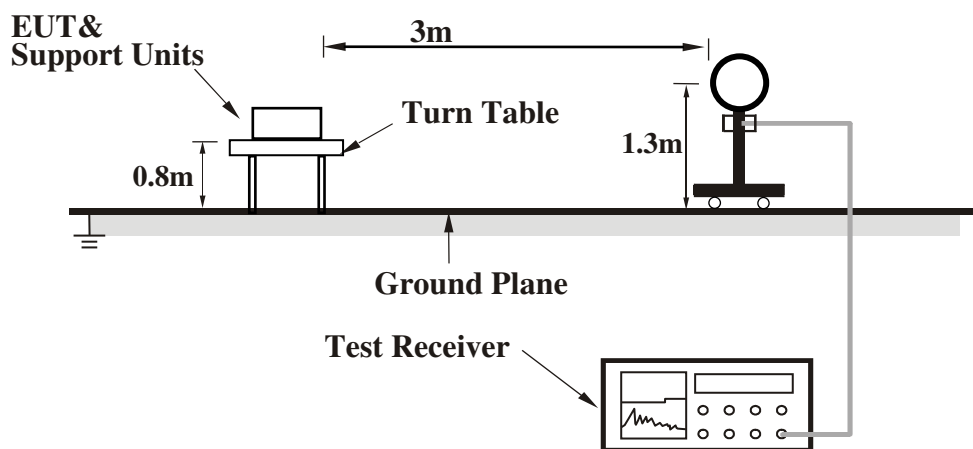
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) 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

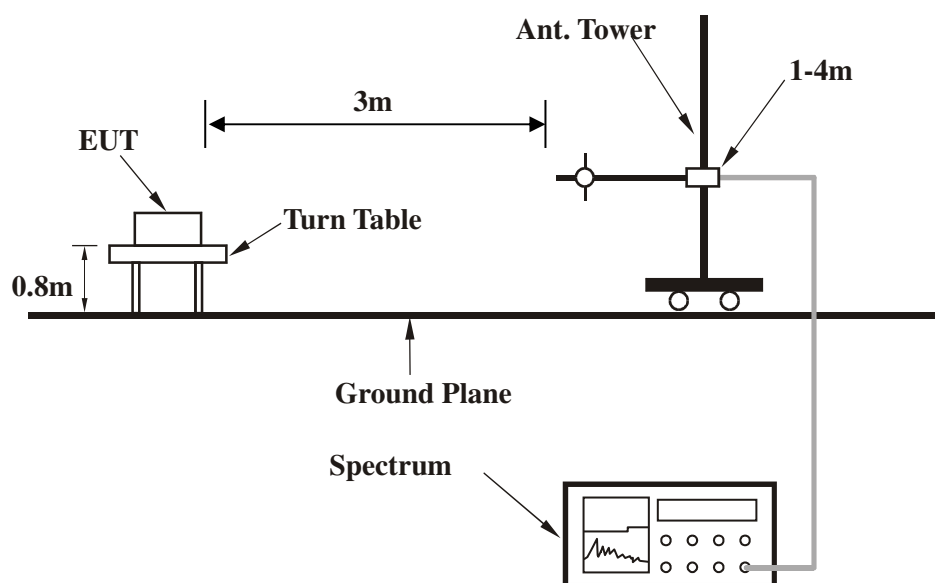
No deviation.

4.1.5 TEST SETUP

Below 30MHz test setup

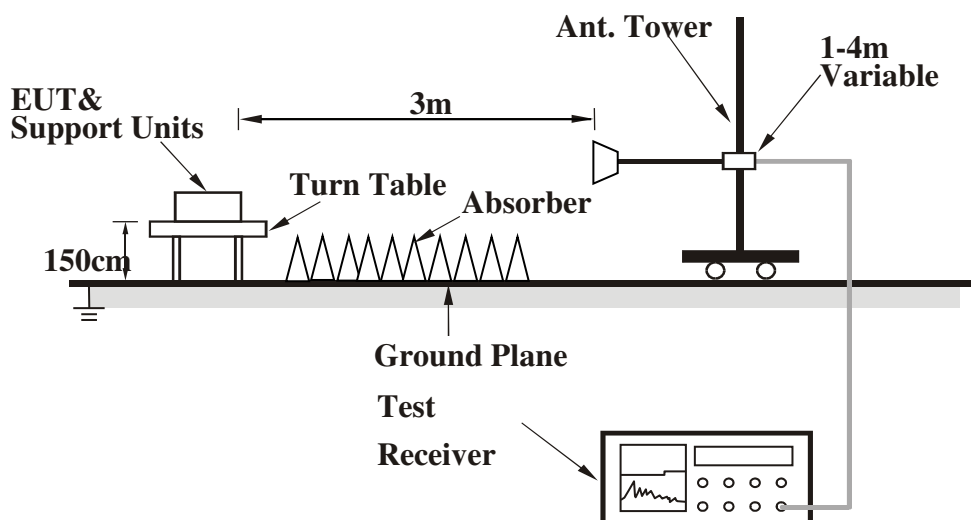


Below 1GHz test setup



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

- Set the EUT under full load condition and placed them 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:

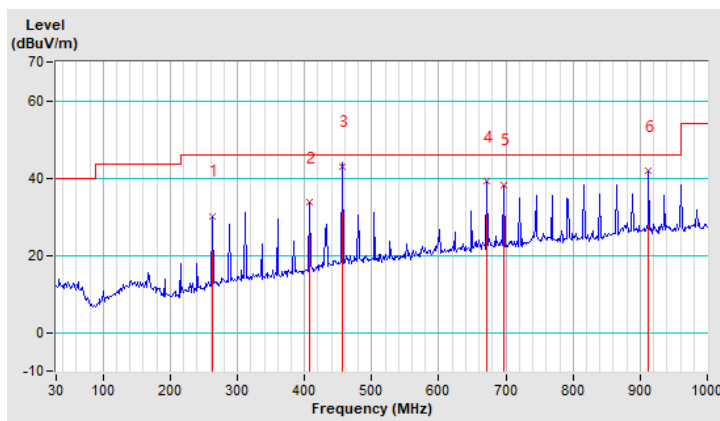
802.11b

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

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	263.17	30.08 QP	46.00	-15.92	1.84 H	253	46.81	-16.73
2	407.74	33.58 QP	46.00	-12.42	1.70 H	267	46.04	-12.46
3	455.93	42.80 QP	46.00	-3.20	1.55 H	152	53.60	-10.80
4	672.00	39.05 QP	46.00	-6.95	1.39 H	298	45.70	-6.65
5	696.88	38.21 QP	46.00	-7.79	1.97 H	237	44.51	-6.30
6	912.95	41.74 QP	46.00	-4.26	1.54 H	282	44.18	-2.44

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.

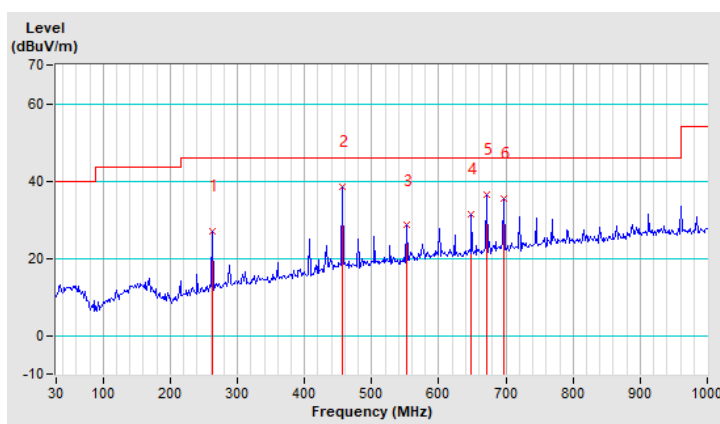


CHANNEL	TX Channel 1	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

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	263.17	26.96 QP	46.00	-19.04	1.46 V	264	43.69	-16.73
2	455.93	38.61 QP	46.00	-7.39	1.31 V	264	49.41	-10.80
3	552.31	28.55 QP	46.00	-17.45	2.00 V	264	37.83	-9.28
4	648.69	31.30 QP	46.00	-14.70	1.91 V	264	38.28	-6.98
5	672.00	36.49 QP	46.00	-9.51	1.63 V	264	43.14	-6.65
6	696.88	35.34 QP	46.00	-10.66	1.77 V	264	41.64	-6.30

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	48.88 PK	74.00	-25.12	1.88 H	201	46.00	2.88
2	2390.00	37.01 AV	54.00	-16.99	1.88 H	201	34.13	2.88
3	*2412.00	92.84 PK			1.84 H	128	89.89	2.95
4	*2412.00	87.28 AV			1.84 H	128	84.33	2.95
5	4824.00	50.71 PK	74.00	-23.29	1.71 H	145	43.69	7.02
6	4824.00	38.46 AV	54.00	-15.54	1.71 H	145	31.44	7.02
7	7236.00	53.50 PK	74.00	-20.50	1.50 H	109	42.57	10.93
8	7236.00	41.09 AV	54.00	-12.91	1.50 H	109	30.16	10.93
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	46.57 PK	74.00	-27.43	1.57 V	159	43.69	2.88
2	2390.00	34.59 AV	54.00	-19.41	1.57 V	159	31.71	2.88
3	*2412.00	85.60 PK			1.60 V	182	82.65	2.95
4	*2412.00	80.42 AV			1.60 V	182	77.47	2.95
5	4824.00	51.47 PK	74.00	-22.53	1.47 V	124	44.45	7.02
6	4824.00	38.24 AV	54.00	-15.76	1.47 V	124	31.22	7.02
7	7236.00	53.77 PK	74.00	-20.23	1.77 V	123	42.84	10.93
8	7236.00	41.10 AV	54.00	-12.90	1.77 V	123	30.17	10.93

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	92.11 PK			1.11 H	202	89.10	3.01
2	*2437.00	87.02 AV			1.11 H	202	84.01	3.01
3	4874.00	51.57 PK	74.00	-22.43	1.57 H	162	44.40	7.17
4	4874.00	38.62 AV	54.00	-15.38	1.57 H	162	31.45	7.17
5	7311.00	54.01 PK	74.00	-19.99	1.01 H	203	42.84	11.17
6	7311.00	40.02 AV	54.00	-13.98	1.01 H	203	28.85	11.17
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	86.11 PK			1.11 V	101	83.10	3.01
2	*2437.00	81.01 AV			1.11 V	101	78.00	3.01
3	4874.00	51.86 PK	74.00	-22.14	1.86 V	173	44.69	7.17
4	4874.00	38.73 AV	54.00	-15.27	1.86 V	173	31.56	7.17
5	7311.00	53.98 PK	74.00	-20.02	1.98 V	1	42.81	11.17
6	7311.00	40.03 AV	54.00	-13.97	1.98 V	1	28.86	11.17

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 less than 20dB margin 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	91.07 PK			1.07 H	102	87.98	3.09
2	*2462.00	86.02 AV			1.07 H	102	82.93	3.09
3	2483.50	47.71 PK	74.00	-26.29	1.71 H	178	44.55	3.16
4	2483.50	35.78 AV	54.00	-18.22	1.71 H	178	32.62	3.16
5	4924.00	50.98 PK	74.00	-23.02	1.98 H	171	43.67	7.31
6	4924.00	38.71 AV	54.00	-15.29	1.98 H	171	31.40	7.31
7	7386.00	54.71 PK	74.00	-19.29	1.71 H	146	43.29	11.42
8	7386.00	40.49 AV	54.00	-13.51	1.71 H	146	29.07	11.42
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	85.01 PK			1.01 V	121	81.92	3.09
2	*2462.00	80.21 AV			1.01 V	121	77.12	3.09
3	2483.50	46.42 PK	74.00	-27.58	1.42 V	147	43.26	3.16
4	2483.50	34.47 AV	54.00	-19.53	1.42 V	147	31.31	3.16
5	4924.00	51.22 PK	74.00	-22.78	1.22 V	188	43.91	7.31
6	4924.00	38.88 AV	54.00	-15.12	1.22 V	188	31.57	7.31
7	7386.00	54.31 PK	74.00	-19.69	1.31 V	134	42.89	11.42
8	7386.00	40.34 AV	54.00	-13.66	1.31 V	134	28.92	11.42

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	46.91 PK	74.00	-27.09	1.91 H	187	44.03	2.88
2	2390.00	35.87 AV	54.00	-18.13	1.91 H	187	32.99	2.88
3	*2412.00	90.25 PK			1.25 H	131	87.30	2.95
4	*2412.00	79.31 AV			1.25 H	131	76.36	2.95
5	4824.00	51.09 PK	74.00	-22.91	1.09 H	127	44.07	7.02
6	4824.00	37.27 AV	54.00	-16.73	1.09 H	127	30.25	7.02
7	7236.00	52.77 PK	74.00	-21.23	1.77 H	179	41.84	10.93
8	7236.00	40.79 AV	54.00	-13.21	1.77 H	179	29.86	10.93
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	46.61 PK	74.00	-27.39	1.61 V	159	43.73	2.88
2	2390.00	34.59 AV	54.00	-19.41	1.61 V	159	31.71	2.88
3	*2412.00	82.76 PK			1.76 V	112	79.81	2.95
4	*2412.00	71.12 AV			1.76 V	112	68.17	2.95
5	4824.00	50.47 PK	74.00	-23.53	1.47 V	129	43.45	7.02
6	4824.00	37.29 AV	54.00	-16.71	1.47 V	129	30.27	7.02
7	7236.00	52.92 PK	74.00	-21.08	1.92 V	163	41.99	10.93
8	7236.00	40.62 AV	54.00	-13.38	1.92 V	163	29.69	10.93

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	90.82 PK			1.82 H	141	87.81	3.01
2	*2437.00	80.41 AV			1.82 H	141	77.40	3.01
3	4874.00	51.12 PK	74.00	-22.88	1.12 H	122	43.95	7.17
4	4874.00	38.22 AV	54.00	-15.78	1.12 H	122	31.05	7.17
5	7311.00	53.97 PK	74.00	-20.03	1.97 H	157	42.80	11.17
6	7311.00	40.57 AV	54.00	-13.43	1.97 H	157	29.40	11.17
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	82.54 PK			1.54 V	182	79.53	3.01
2	*2437.00	71.82 AV			1.54 V	182	68.81	3.01
3	4874.00	50.80 PK	74.00	-23.20	1.80 V	101	43.63	7.17
4	4874.00	38.01 AV	54.00	-15.99	1.80 V	101	30.84	7.17
5	7311.00	53.86 PK	74.00	-20.14	1.86 V	148	42.69	11.17
6	7311.00	40.48 AV	54.00	-13.52	1.86 V	148	29.31	11.17

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 less than 20dB margin 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	90.34 PK			1.34 H	111	87.25	3.09
2	*2462.00	80.11 AV			1.34 H	111	77.02	3.09
3	2483.50	46.82 PK	74.00	-27.18	1.82 H	192	43.66	3.16
4	2483.50	35.92 AV	54.00	-18.08	1.82 H	192	32.76	3.16
5	4924.00	50.77 PK	74.00	-23.23	1.77 H	223	43.46	7.31
6	4924.00	38.23 AV	54.00	-15.77	1.77 H	223	30.92	7.31
7	7386.00	54.01 PK	74.00	-19.99	1.01 H	187	42.59	11.42
8	7386.00	40.87 AV	54.00	-13.13	1.01 H	187	29.45	11.42
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	82.14 PK			1.14 V	115	79.05	3.09
2	*2462.00	72.15 AV			1.14 V	115	69.06	3.09
3	2483.50	43.96 PK	74.00	-30.04	1.96 V	143	40.80	3.16
4	2483.50	33.43 AV	54.00	-20.57	1.96 V	143	30.27	3.16
5	4924.00	50.99 PK	74.00	-23.01	1.99 V	131	43.68	7.31
6	4924.00	38.31 AV	54.00	-15.69	1.99 V	131	31.00	7.31
7	7434.00	54.11 PK	74.00	-19.89	1.11 V	123	42.53	11.58
8	7434.00	41.10 AV	54.00	-12.90	1.11 V	123	29.52	11.58

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	46.85 PK	74.00	-27.15	1.85 H	106	43.97	2.88
2	2390.00	36.06 AV	54.00	-17.94	1.85 H	106	33.18	2.88
3	*2412.00	91.44 PK			1.44 H	289	88.49	2.95
4	*2412.00	79.89 AV			1.44 H	289	76.94	2.95
5	4824.00	49.84 PK	74.00	-24.16	1.84 H	116	42.82	7.02
6	4824.00	37.16 AV	54.00	-16.84	1.84 H	116	30.14	7.02
7	7236.00	53.60 PK	74.00	-20.40	1.60 H	105	42.67	10.93
8	7236.00	41.05 AV	54.00	-12.95	1.60 H	105	30.12	10.93
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	45.74 PK	74.00	-28.26	1.74 V	126	42.86	2.88
2	2390.00	34.26 AV	54.00	-19.74	1.74 V	126	31.38	2.88
3	*2412.00	83.30 PK			1.30 V	148	80.35	2.95
4	*2412.00	71.48 AV			1.30 V	148	68.53	2.95
5	4824.00	51.38 PK	74.00	-22.62	1.38 V	150	44.36	7.02
6	4824.00	38.50 AV	54.00	-15.50	1.38 V	150	31.48	7.02
7	7236.00	54.40 PK	74.00	-19.60	1.40 V	107	43.47	10.93
8	7236.00	41.09 AV	54.00	-12.91	1.40 V	107	30.16	10.93

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	91.48 PK			1.48 H	187	88.47	3.01
2	*2437.00	79.87 AV			1.48 H	187	76.86	3.01
3	4874.00	51.03 PK	74.00	-22.97	1.03 H	122	43.86	7.17
4	4874.00	38.22 AV	54.00	-15.78	1.03 H	122	31.05	7.17
5	7311.00	54.47 PK	74.00	-19.53	1.47 H	101	43.30	11.17
6	7311.00	41.01 AV	54.00	-12.99	1.47 H	101	29.84	11.17
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	83.72 PK			1.72 V	197	80.71	3.01
2	*2437.00	71.97 AV			1.72 V	197	68.96	3.01
3	4874.00	51.23 PK	74.00	-22.77	1.23 V	178	44.06	7.17
4	4874.00	38.78 AV	54.00	-15.22	1.23 V	178	31.61	7.17
5	7311.00	53.98 PK	74.00	-20.02	1.98 V	288	42.81	11.17
6	7311.00	40.88 AV	54.00	-13.12	1.98 V	288	29.71	11.17

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 less than 20dB margin 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	91.23 PK			1.23 H	297	88.14	3.09
2	*2462.00	79.97 AV			1.23 H	297	76.88	3.09
3	2483.50	48.66 PK	74.00	-25.34	1.66 H	182	45.50	3.16
4	2483.50	36.82 AV	54.00	-17.18	1.66 H	182	33.66	3.16
5	4924.00	51.02 PK	74.00	-22.98	1.02 H	171	43.71	7.31
6	4924.00	38.71 AV	54.00	-15.29	1.02 H	171	31.40	7.31
7	7386.00	54.07 PK	74.00	-19.93	1.07 H	186	42.65	11.42
8	7386.00	40.86 AV	54.00	-13.14	1.07 H	186	29.44	11.42
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	83.70 PK			1.70 V	287	80.61	3.09
2	*2462.00	71.87 AV			1.70 V	287	68.78	3.09
3	2483.50	45.98 PK	74.00	-28.02	1.98 V	182	42.82	3.16
4	2483.50	34.82 AV	54.00	-19.18	1.98 V	182	31.66	3.16
5	4924.00	50.62 PK	74.00	-23.38	1.62 V	147	43.31	7.31
6	4924.00	38.47 AV	54.00	-15.53	1.62 V	147	31.16	7.31
7	7386.00	53.98 PK	74.00	-20.02	1.98 V	206	42.56	11.42
8	7386.00	41.06 AV	54.00	-12.94	1.98 V	206	29.64	11.42

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 less than 20dB margin against the limit.
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.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 26
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 25
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 07, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES:

1. The test was performed in RF Test Shielded Room.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

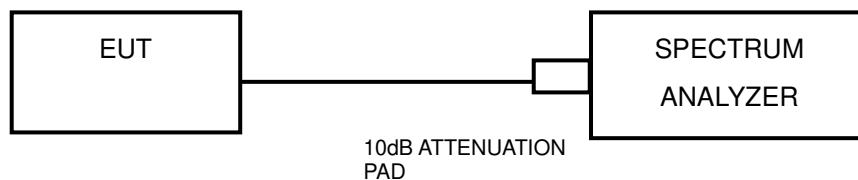
4.2.3 TEST PROCEDURE

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

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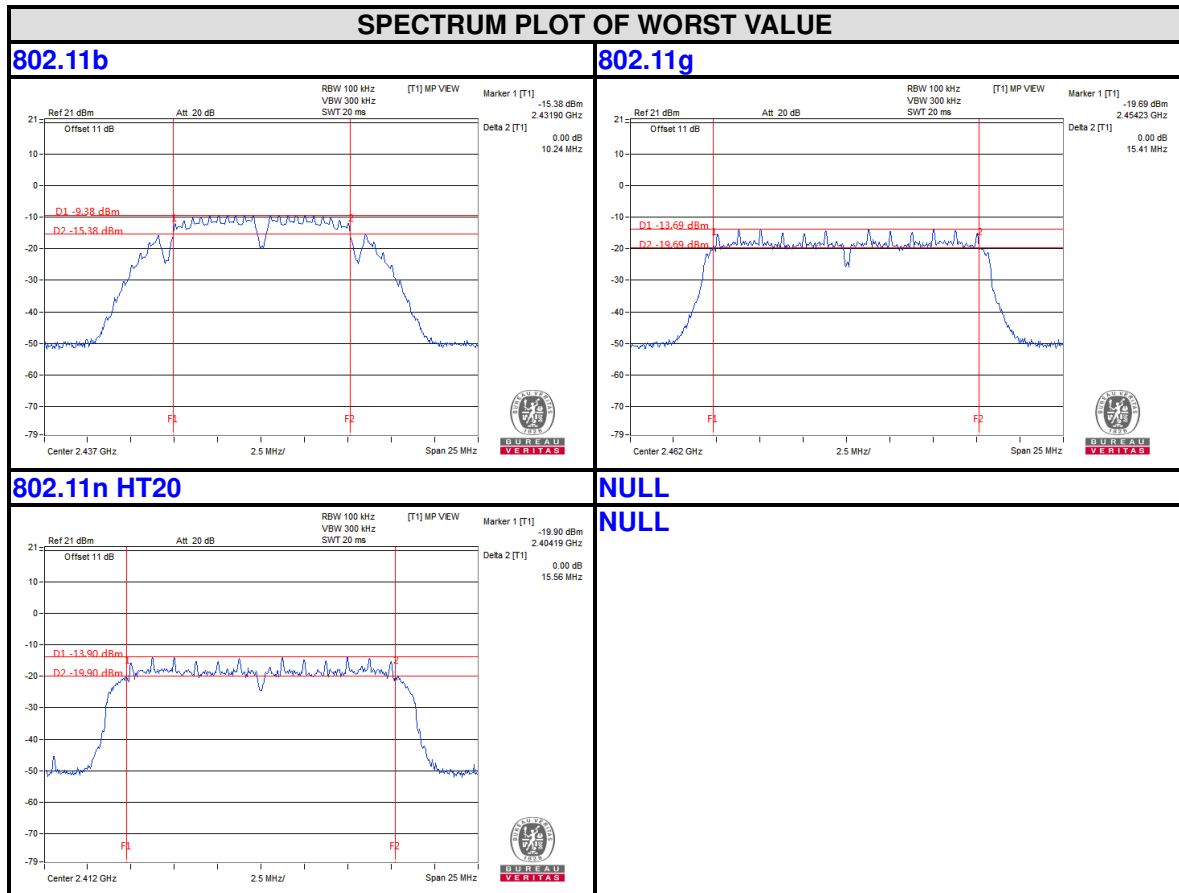
CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	10.20	0.5	PASS
6	2437	10.24	0.5	PASS
11	2462	10.24	0.5	PASS

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CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.40	0.5	PASS
6	2437	15.39	0.5	PASS
11	2462	15.41	0.5	PASS

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CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	15.56	0.5	PASS
6	2437	15.40	0.5	PASS
11	2462	15.22	0.5	PASS

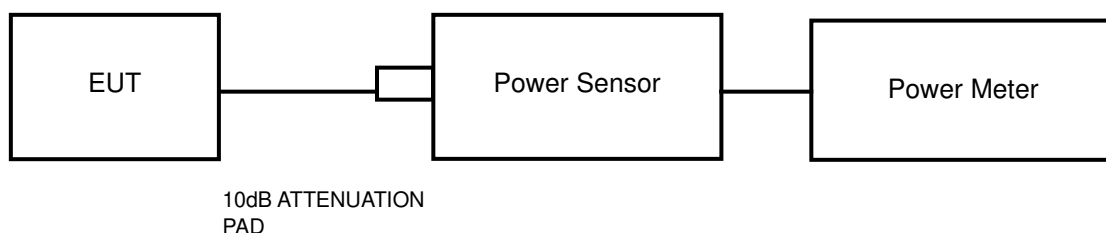


4.3 CONDUCTED OUTPUT POWER

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.	Next Cal.
Power Sensor	Keysight	U2021XA	MY57320002	Apr. 07, 26
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Oct. 10, 25
Oscilloscope	Agilent	DSO9254A	MY51260160	Jul. 07, 25
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Oct. 09, 25
Signal Generator	Agilent	N5183A	MY50140980	Jul. 11, 25
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jul. 11, 25
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	N/A
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES:

1. The test was performed in RF Test Shielded Room.
2. Equipment are calibrated by calibration laboratory accredited to ISO/IEC 17025 by a mutually recognized Accreditation and all tests are conducted within a valid calibration cycle.

4.3.4 TEST PROCEDURES

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

An average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and set the detector to AVERAGE. Record the 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	6.45	4.416	1	PASS
6	2437	6.51	4.477	1	PASS
11	2462	6.64	4.613	1	PASS

802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	6.66	4.634	1	PASS
6	2437	6.25	4.217	1	PASS
11	2462	6.39	4.634	1	PASS

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CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	6.85	4.842	1	PASS
6	2437	6.91	4.909	1	PASS
11	2462	7.03	5.047	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	3.35	2.163
6	2437	3.33	2.153
11	2462	3.43	2.203

802.11g

CHANNEL	CHANNEL FREQUENCY(MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	-2.07	0.6209
6	2437	-1.88	0.6486
11	2462	-1.71	0.6745

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CHANNEL	CHANNEL FREQUENCY(MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	-1.90	0.6457
6	2437	-1.85	0.6531
11	2462	-1.65	0.6839

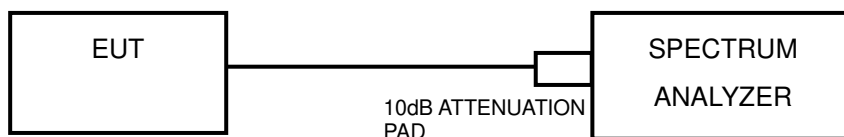
Note: The above power values include duty cycle factors.

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 4.3.3 to get information of above instrument.

4.4.4 TEST PROCEDURE

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set the 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	-25.71	8.00	PASS
6	2437	-25.68	8.00	PASS
11	2462	-25.39	8.00	PASS

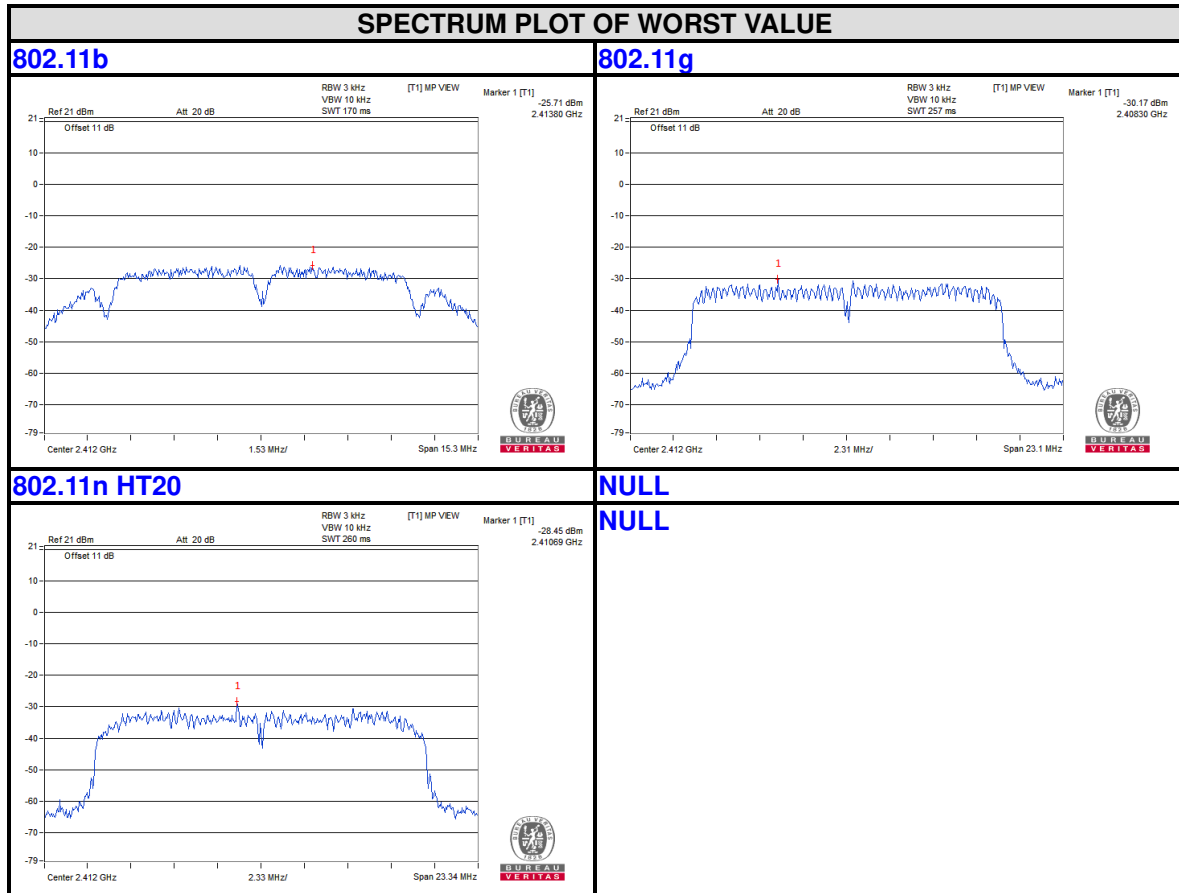
802.11g

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-30.17	8.00	PASS
6	2437	-30.44	8.00	PASS
11	2462	-30.23	8.00	PASS

802.11n HT20

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-28.45	8.00	PASS
6	2437	-30.06	8.00	PASS
11	2462	-28.82	8.00	PASS

Note: The above PSD values include duty cycle factors.

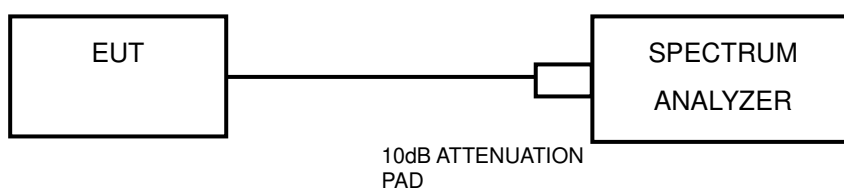


4.5 OUT OF BAND EMISSION MEASUREMENT

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 4.3.3 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.

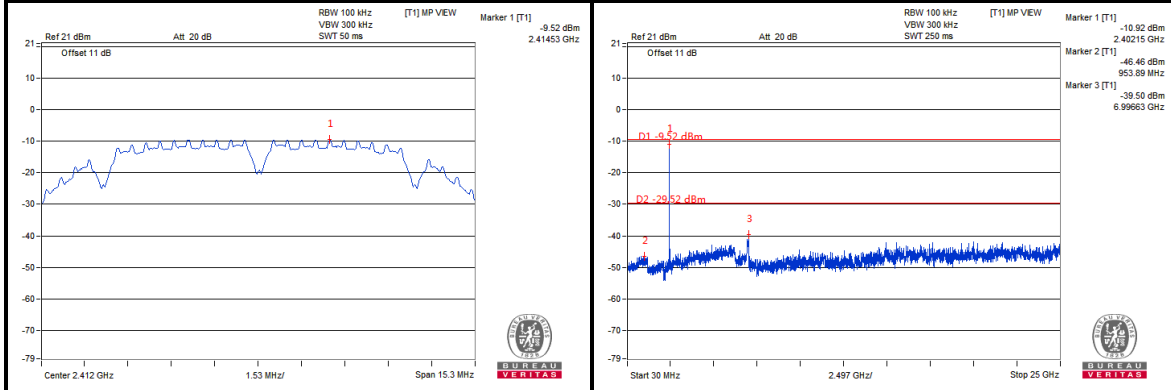
4.5.6 EUT OPERATING CONDITION

Same as item 4.3.6

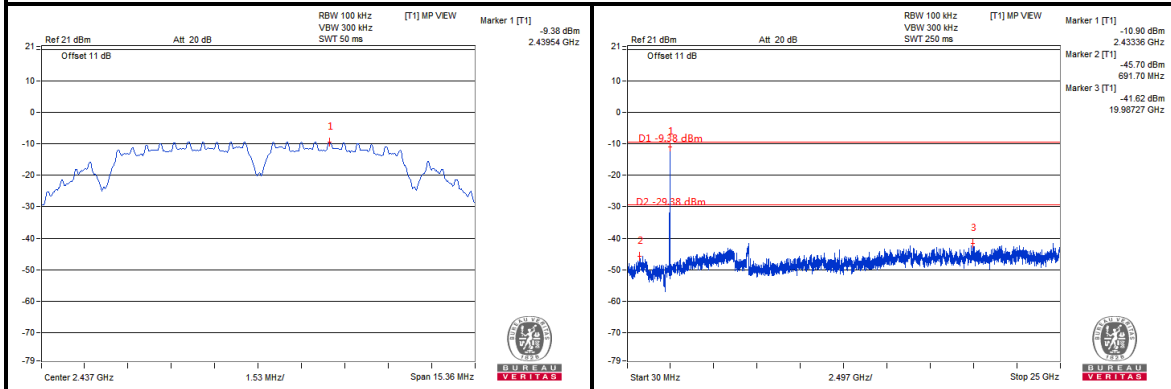
4.5.7 TEST RESULTS

802.11b

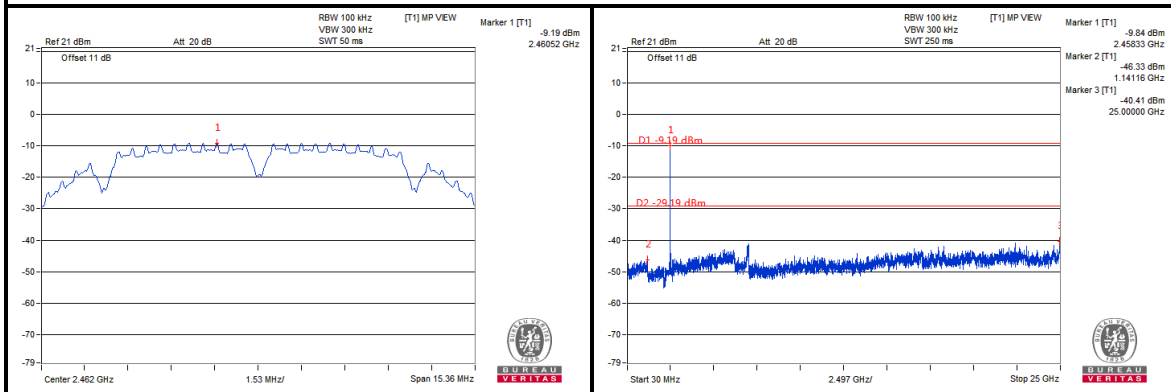
CH 1



CH 6

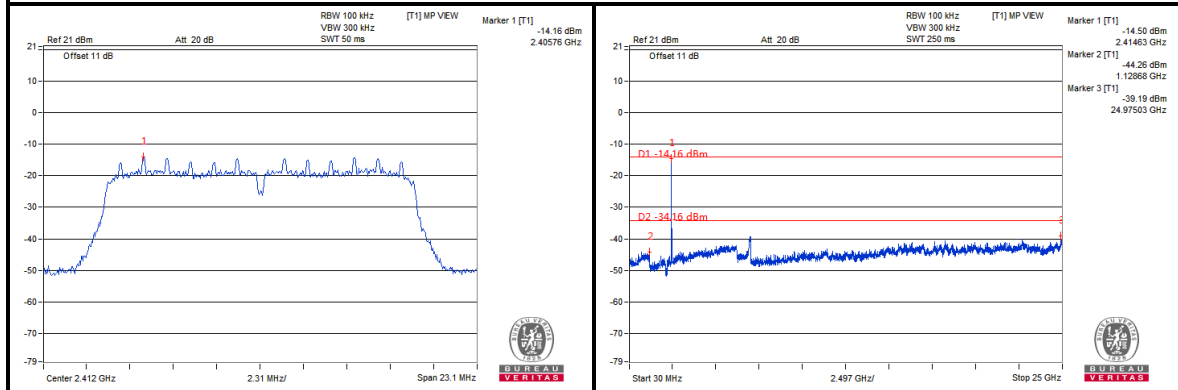


CH 11

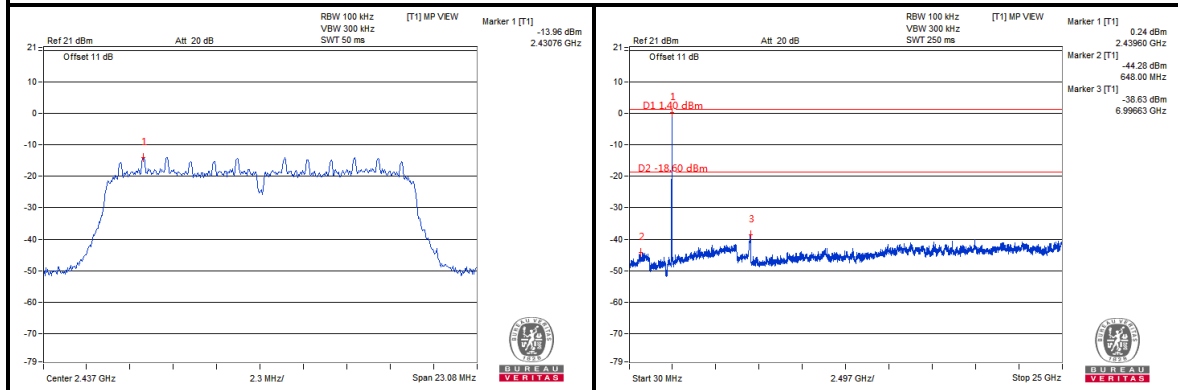


802.11g

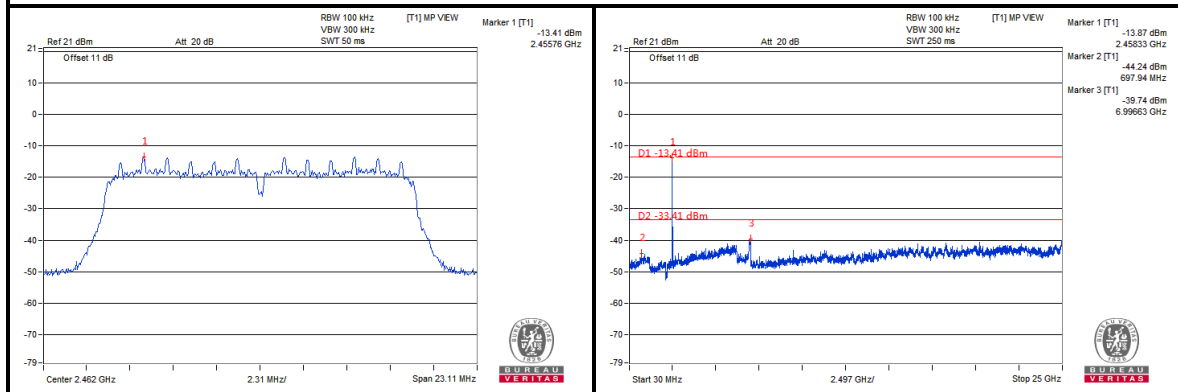
CH 1



CH 6

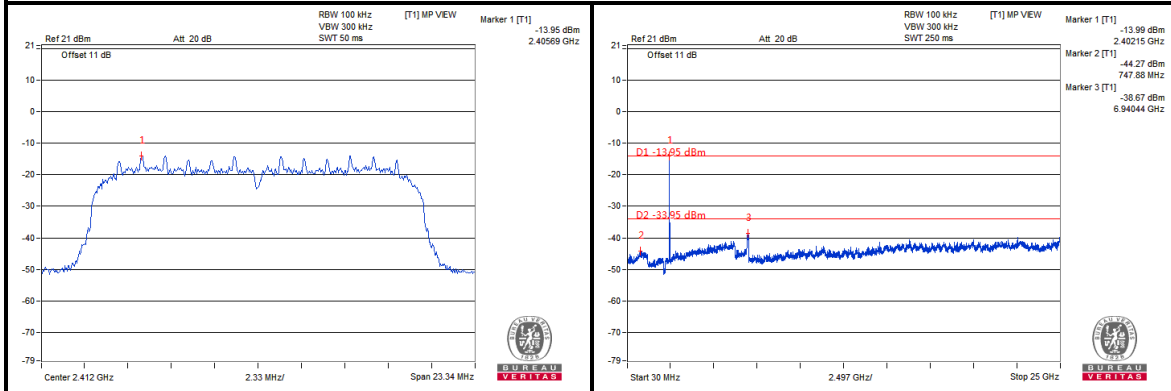


CH 11

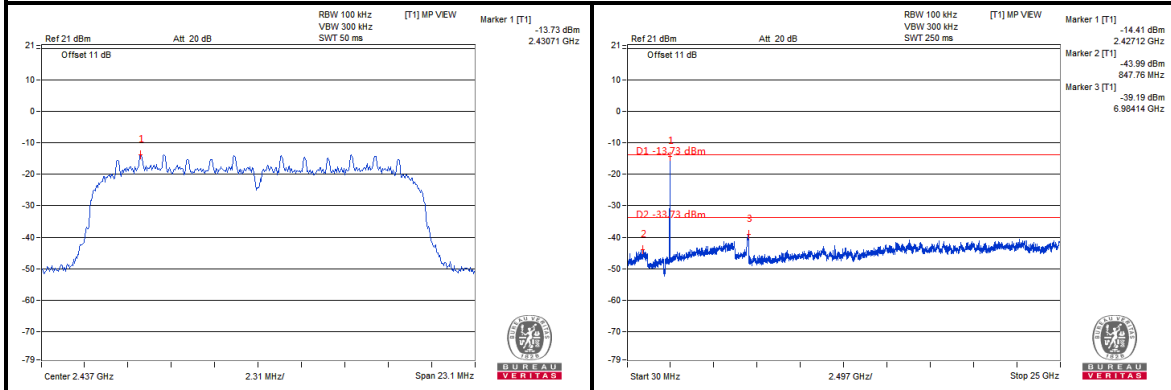


802.11n (HT20)

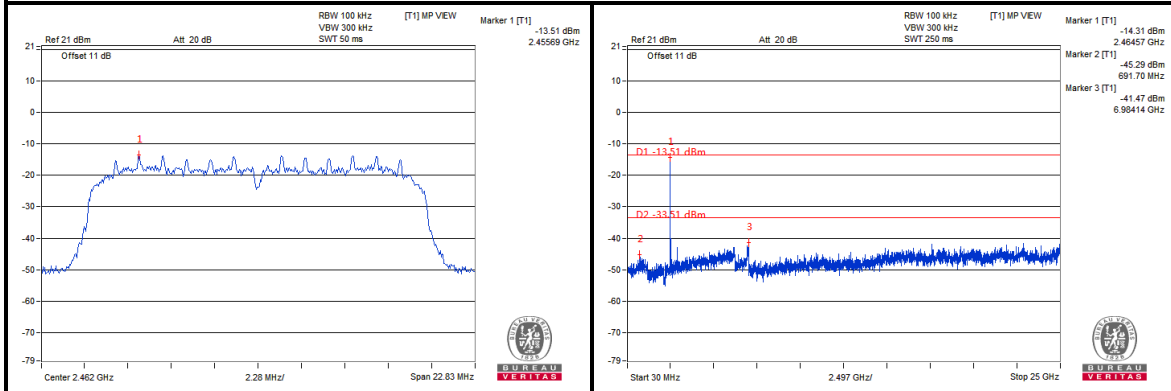
CH 1



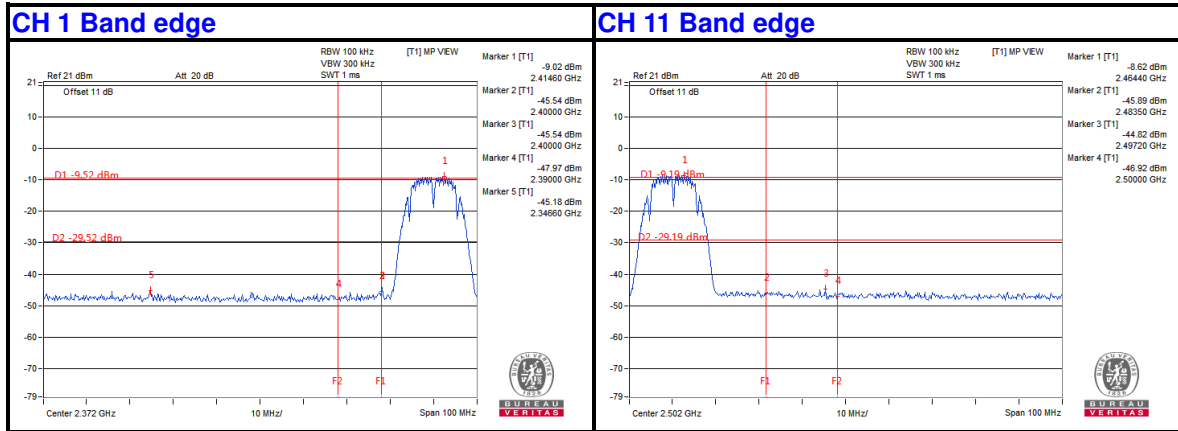
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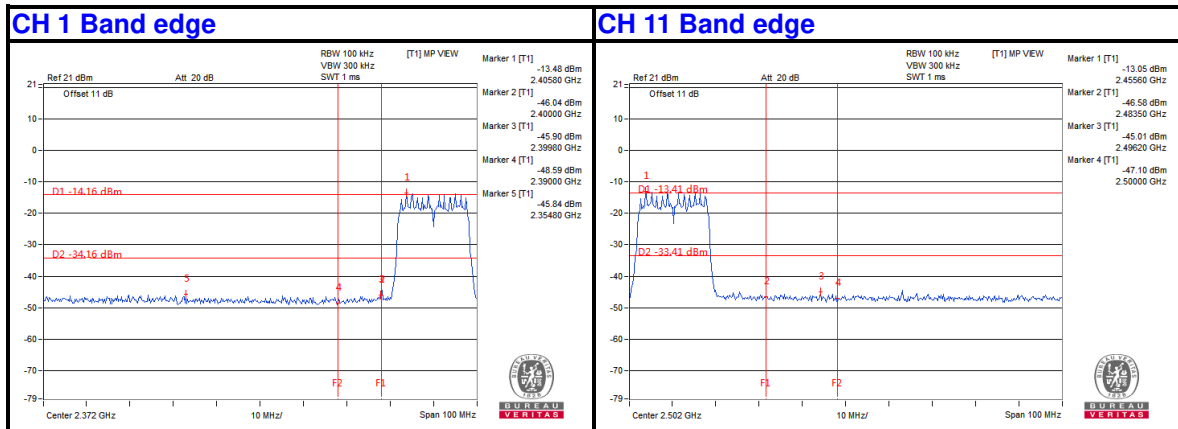
CH 11



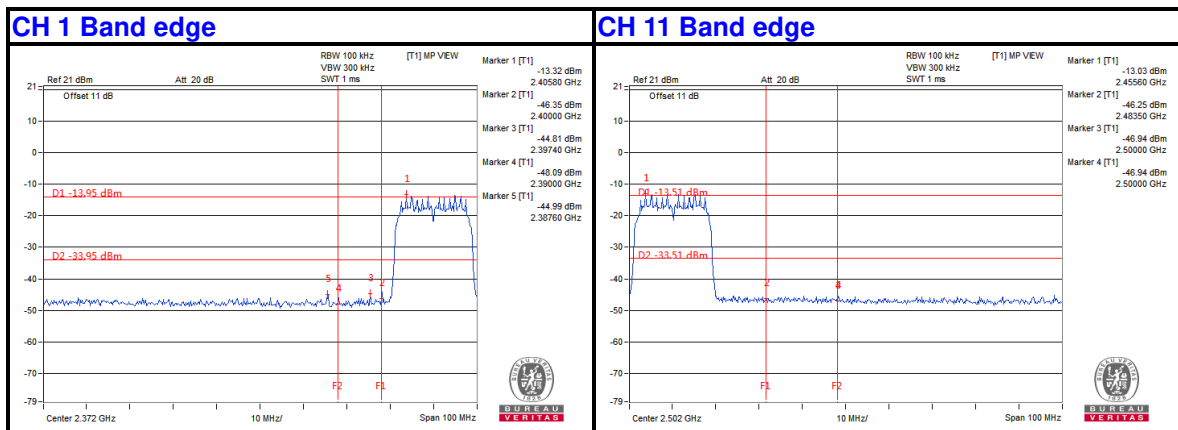
802.11b



802.11g



802.11n HT20



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 modifications are made to the EUT by the lab during the test.

---END---