

## TEST REPORT



Applicant	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center Haixiu Road, Bao an District Shenzhen Guangdong 518000 China

Manufacturer or Supplier	Shenzhen Arashi Vision Company Limited
Address	6/F, Building A, Logan Century Center Haixiu Road, Bao an District Shenzhen Guangdong 518000 China
Product	Insta360 ONE X
Brand Name	Insta360
Model	CINONEX/A
Additional Model & Model Difference	CINONEX, See section 3.1
Date of tests	Jul. 05, 2018 ~ Sep. 12, 2018

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 Andy Zhu Project Engineer / EMC Department	Approved by Glyn He Supervisor / EMC Department
	  Date: Sep. 13, 2018

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF180705N021-1	Original release	Sep. 13, 2018

## 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	PASS	Meet the requirement of limit.
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
Conducted emissions	9kHz~30MHz	2.70dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.76dB
	1GHz ~ 18GHz	4.84dB
	18GHz ~ 40GHz	4.96dB

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

<b>PRODUCT</b>	Insta360 ONE X
<b>MODEL NO.</b>	CINONEX/A
<b>FCC ID</b>	2AFSH-CINONEX-A
<b>NOMINAL VOLTAGE</b>	DC 3.8V Supplied by Li-ion Battery, DC 5V Charged by the micro-USB Port
<b>MODULATION TECHNOLOGY</b>	DSSS, OFDM, GFSK
<b>MODULATION TYPE</b>	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM BT-LE for DTS
<b>OPERATING FREQUENCY</b>	2412-2462MHz for 11b/g/n(HT20) 2402-2480MHz for BT-LE(GFSK)
<b>PEAK OUTPUT POWER</b>	11.53 dBm (Maximum) for WIFI 2.4GHz -0.37 dBm (Maximum) for BT-LE
<b>ANTENNA TYPE</b>	PIFA Antenna, 3.31dBi Gain for WIFI 2.4GHz PIFA Antenna, 3.31dBi Gain for BT-LE
<b>I/O PORTS</b>	Refer to user's manual
<b>CABLE SUPPLIED</b>	Micro USB Line: Shielded. Detachable 0.4m, Type-C Line: Shielded. Detachable 0.4m, Lightning Line: Shielded. Detachable 1.25m, USB Line: Shielded. Detachable 1.0m (with one core)

**NOTE:**

1. 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
BT-LE	1TX/1RX

2. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
4. Please refer to the EUT photo document (Reference No.: 180705N021) for detailed product photo.
5. Additional model CINONEX is identical with the test model CINONEX/A except the packaging and model name for trading purpose.

### 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		

40 channels are provided for BT-LE(GFSK):

CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)	CHANNEL	FREQ. (MHZ)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

### 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 Battery with (WIFI + BT) function
B	√	√	√	-	Powered by Adapter with (WIFI + BT) function

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

**PLC**: Power Line Conducted Emission

**RE≥1G**: Radiated Emission above 1GHz

**APCM**: Antenna Port Conducted Measurement

#### POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	TESTED CONDITION
B	BT Link+ WIFI (2.4G) Link

#### 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)	AXIS
B	802.11b	1 to 11	1	DSSS	DBPSK	6.0	X
B	BT-LE	0 to 39	39	DTS	BT-LE	1.0	X



**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)	AXIS
B	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0	X
B	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0	X
B	802.11n HT20	1 to 11	1, 6, 11	OFDM	BPSK	6.5	X
B	BT-LE	0 to 39	0,19, 39	DTS	BT-LE	1.0	X

**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
A	BT-LE	0 to 39	0,19, 39	DTS	BT-LE	1.0

**TEST CONDITION:**

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE	TESTED BY
RE<1G	26deg. C, 50%RH	DC 5V from USB	Cheng Zhong
RE≥1G	26deg. C, 50%RH	DC 5V from USB	Cheng Zhong
PLC	25deg. C, 60%RH	DC 5V from USB	Dragon
APCM	20deg. C, 55%RH	DC 3.8V from Battery	Sen He

### 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 DTS Meas Guidance v04**

**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 with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	Lenovo	C-P30	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

## 4 TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
  2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
  3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

#### 4.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Mar. 21,18	Mar. 20,19
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 03,18	Mar. 02,19
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Apr. 11,18	Apr. 10,19
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Jan. 17,18	Jan. 16,19
Test software	ADT	ADT_Cond_V7.3.7	N/A	N/A	N/A

- NOTE:**
1. The test was performed in shielded room 553.
  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.

#### 4.1.3 TEST PROCEDURES

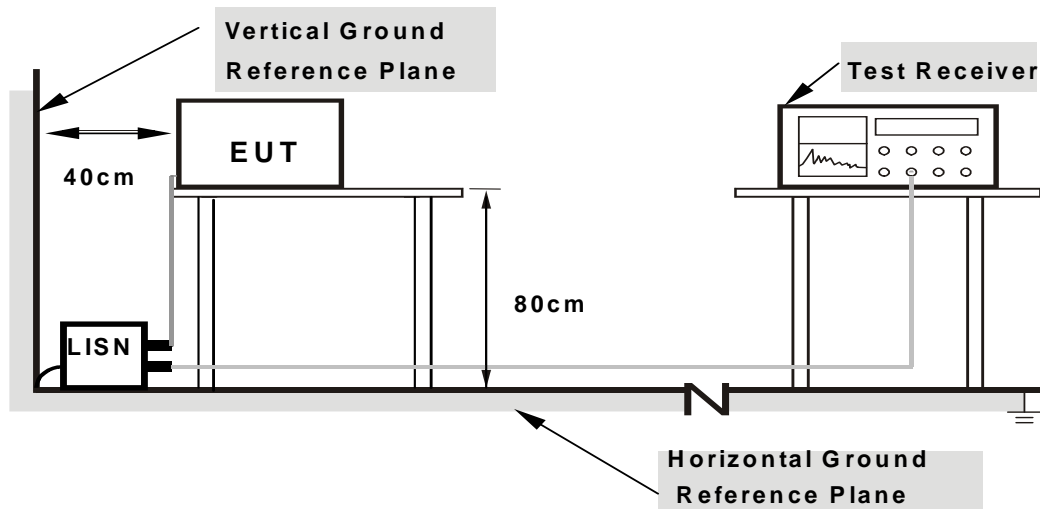
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.1.5 TEST SETUP



- Note:**
1. Support units were connected to second LISN.
  2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

#### 4.1.6 EUT OPERATING CONDITIONS

- a. Turned on the power and connected of all equipment.
- b. EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

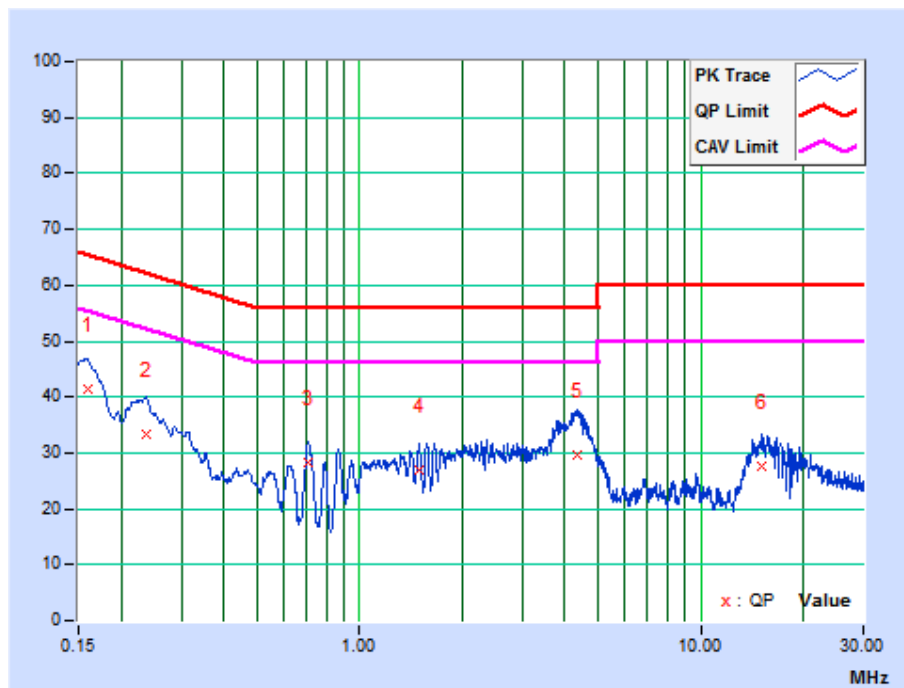
#### 4.1.7 TEST RESULTS

##### CONDUCTED WORST-CASE DATA: BT

PHASE	Line	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15924	9.85	31.61	17.95	41.46	27.80	65.50	55.50	-24.04	-27.70
2	0.23725	10.35	22.97	9.51	33.32	19.86	62.19	52.19	-28.87	-32.33
3	0.70596	9.89	18.30	10.81	28.19	20.70	56.00	46.00	-27.81	-25.30
4	1.49325	10.26	16.59	5.93	26.85	16.19	56.00	46.00	-29.15	-29.81
5	4.35750	10.02	19.67	6.25	29.69	16.27	56.00	46.00	-26.31	-29.73
6	15.18900	9.78	17.69	9.15	27.47	18.93	60.00	50.00	-32.53	-31.07

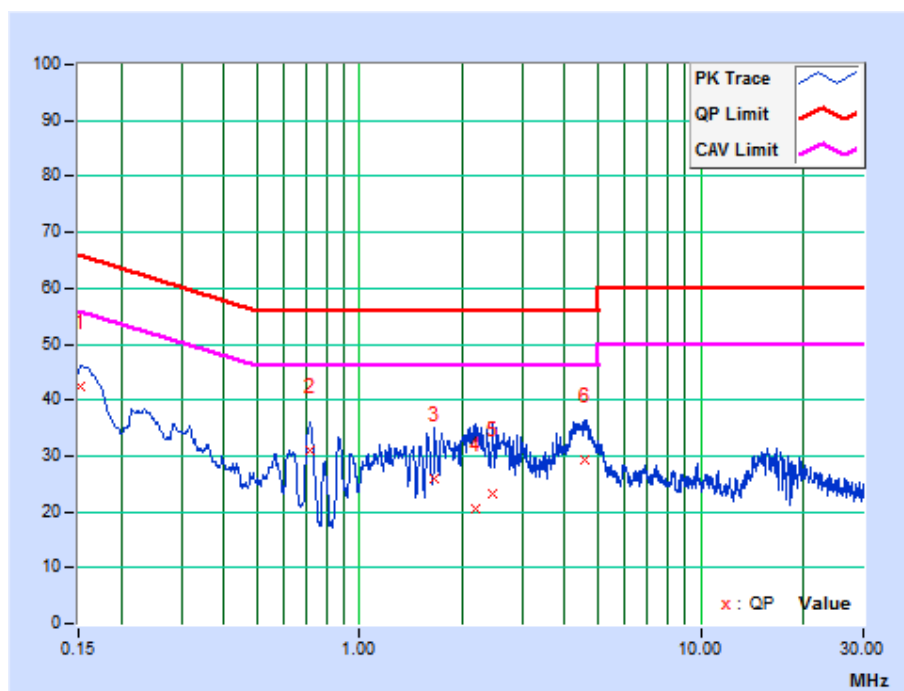
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



PHASE	Neutral	6dB BANDWIDTH	9kHz
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15225	9.79	32.53	19.53	42.32	29.32	65.88	55.88	-23.56	-26.56
2	0.71534	10.02	21.05	12.69	31.07	22.71	56.00	46.00	-24.93	-23.29
3	1.65975	10.05	15.91	8.82	25.96	18.87	56.00	46.00	-30.04	-27.13
4	2.19711	10.13	10.40	2.79	20.53	12.92	56.00	46.00	-35.47	-33.08
5	2.44950	9.86	13.49	6.54	23.35	16.40	56.00	46.00	-32.65	-29.60
6	4.55341	9.78	19.67	7.78	29.45	17.56	56.00	46.00	-26.55	-28.44

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
  2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
  3. The emission levels of other frequencies were very low against the limit.
  4. Margin value = Emission level - Limit value
  5. Correction factor = Insertion loss + Cable loss
  6. Emission Level = Correction Factor + Reading Value.



## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 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.



## 4.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 21,18	Mar. 20,19
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 31,18	May 30,19
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Apr. 18,18	Apr. 18,19
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	Jul. 28, 18	Jul. 27, 19
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	Jun. 02,18	Jun. 01,19
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170242	May 05,18	May 04,19
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	Feb. 10,18	Feb. 09,19
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	Apr. 18,18	Apr. 18,19
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Nov. 08,17	Nov. 07,18
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A	N/A
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Aug. 10,18	Aug. 09,19

**NOTE:**

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.

#### 4.2.3 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.
- 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:**

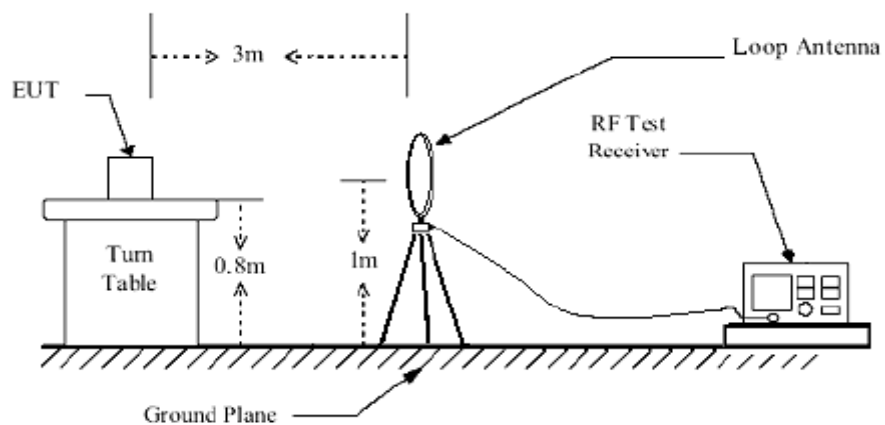
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution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

#### 4.2.4 DEVIATION FROM TEST STANDARD

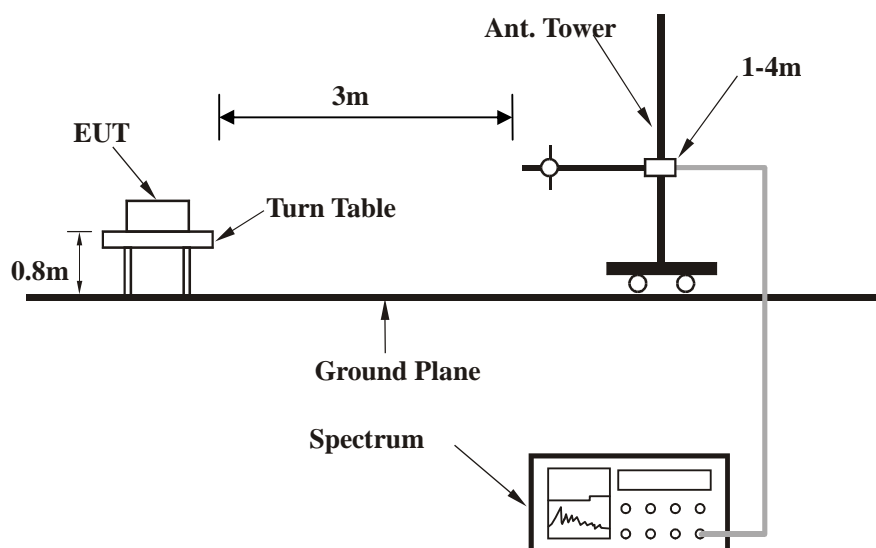
No deviation.

#### 4.2.5 TEST SETUP

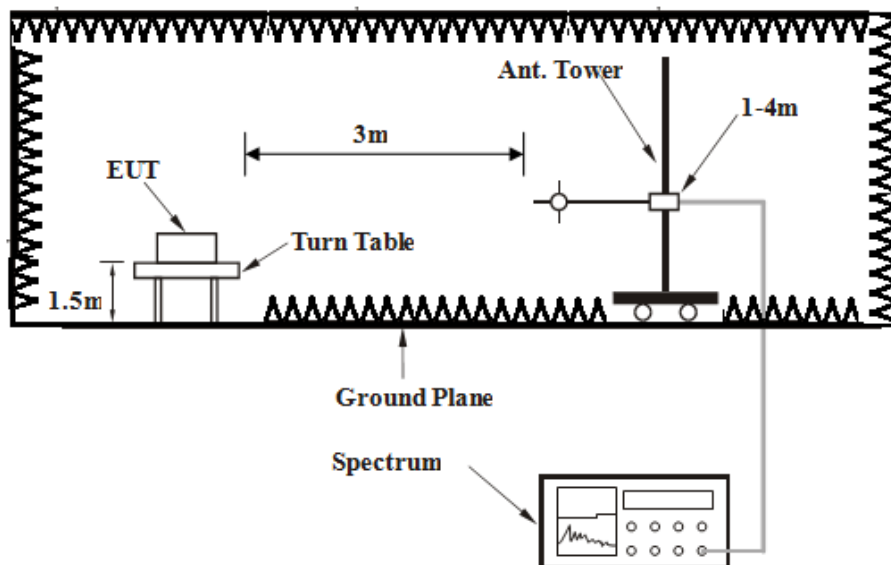
##### Below 30MHz test setup



##### Below 1GHz test setup



### Above 1GHz test setup



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

#### 4.2.6 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.

## 4.2.7 TEST RESULTS

### BELOW 1GHz WORST-CASE DATA:

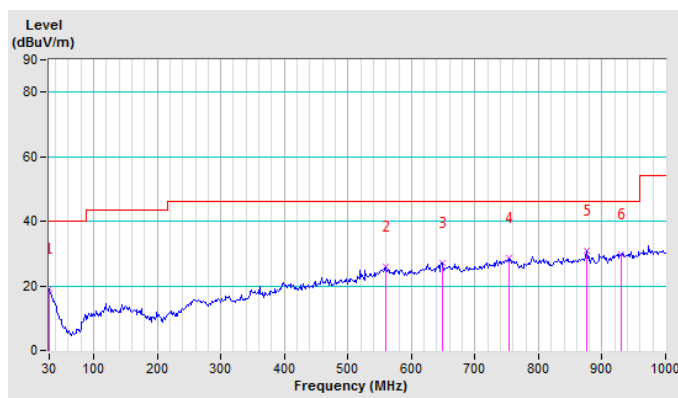
#### 802.11b

<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	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	30.00	18.90 QP	40.00	-21.10	1.00 H	160	30.03	-11.13
2	560.08	25.79 QP	46.00	-20.21	1.00 H	104	29.34	-3.55
3	648.69	27.03 QP	46.00	-18.97	1.00 H	64	30.11	-3.08
4	754.39	28.66 QP	46.00	-17.34	1.00 H	249	29.85	-1.19
5	875.64	30.77 QP	46.00	-15.23	1.00 H	80	31.21	-0.44
6	930.05	29.79 QP	46.00	-16.21	1.00 H	0	28.76	1.03

#### 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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

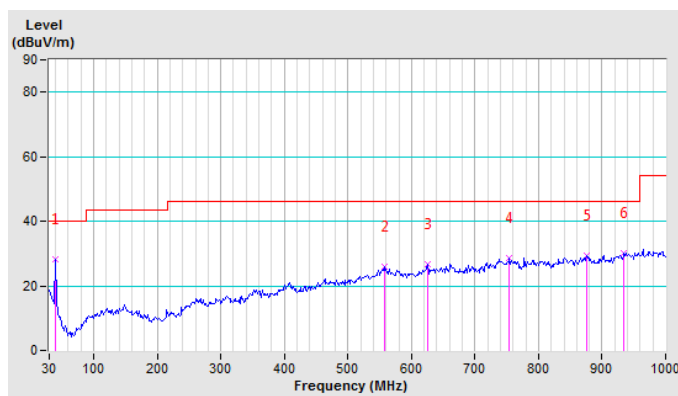


<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	9KHz ~ 1GHz		

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	39.33	28.25 QP	40.00	-11.75	1.00 V	137	44.25	-16.00
2	556.97	25.84 QP	46.00	-20.16	1.00 V	121	29.65	-3.81
3	625.37	26.70 QP	46.00	-19.30	1.00 V	79	29.85	-3.15
4	754.39	28.66 QP	46.00	-17.34	1.00 V	107	29.85	-1.19
5	875.64	29.44 QP	46.00	-16.56	1.00 V	95	29.88	-0.44
6	934.71	30.25 QP	46.00	-15.75	1.00 V	62	29.20	1.05

**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.



**ABOVE 1GHz DATA**

802.11b

<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	52.65 PK	74.00	-21.35	1.50 H	200	49.59	3.06
2	2390.00	41.59 AV	54.00	-12.41	1.50 H	200	38.53	3.06
3	*2412.00	105.30 PK			1.50 H	200	102.18	3.12
4	*2412.00	98.23 AV			1.50 H	200	95.11	3.12
5	4824.00	53.46 PK	74.00	-20.54	1.67 H	229	47.50	5.96
6	4824.00	36.58 AV	54.00	-17.42	1.67 H	229	30.62	5.96
7	7236.00	58.85 PK	74.00	-15.15	1.62 H	277	46.54	12.31
8	7236.00	45.48 AV	54.00	-8.52	1.62 H	277	33.17	12.31
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	50.89 PK	74.00	-23.11	1.48 V	109	47.83	3.06
2	2390.00	38.85 AV	54.00	-15.15	1.48 V	109	35.79	3.06
3	*2412.00	103.66 PK			1.48 V	109	100.54	3.12
4	*2412.00	95.67 AV			1.48 V	109	92.55	3.12
5	4824.00	52.20 PK	74.00	-21.80	1.55 V	123	46.24	5.96
6	4824.00	35.44 AV	54.00	-18.56	1.55 V	123	29.48	5.96
7	7236.00	56.66 PK	74.00	-17.34	1.05 V	224	44.35	12.31
8	7236.00	42.34 AV	54.00	-11.66	1.05 V	224	30.03	12.31

**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.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	104.39 PK			1.00 H	200	101.18	3.21
2	*2437.00	96.96 AV			1.00 H	200	93.75	3.21
3	4874.00	54.68 PK	74.00	-19.32	1.23 H	220	48.63	6.05
4	4874.00	36.52 AV	54.00	-17.48	1.23 H	220	30.47	6.05
5	7311.00	58.57 PK	74.00	-15.43	1.00 H	56	45.93	12.64
6	7311.00	42.30 AV	54.00	-11.70	1.00 H	56	29.66	12.64
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	101.29 PK			1.56 V	228	98.08	3.21
2	*2437.00	93.68 AV			1.56 V	228	90.47	3.21
3	4874.00	49.67 PK	74.00	-24.33	1.20 V	220	43.62	6.05
4	4874.00	33.67 AV	54.00	-20.33	1.20 V	220	27.62	6.05
5	7311.00	52.10 PK	74.00	-21.90	1.64 V	250	39.46	12.64
6	7311.00	39.87 AV	54.00	-14.13	1.64 V	250	27.23	12.64

**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.



<b>CHANNEL</b>	TX Channel 11	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	105.80 PK			1.00 H	230	102.51	3.29
2	*2462.00	102.30 AV			1.00 H	230	99.01	3.29
3	2483.50	61.50 PK	74.00	-12.50	1.00 H	23	58.14	3.36
4	2483.50	44.80 AV	54.00	-9.20	1.00 H	23	41.44	3.36
5	4924.00	53.40 PK	74.00	-20.60	1.30 H	220	47.27	6.13
6	4924.00	38.90 AV	54.00	-15.10	1.30 H	220	32.77	6.13
7	7386.00	59.35 PK	74.00	-14.65	2.30 H	110	46.39	12.96
8	7386.00	45.65 AV	54.00	-8.35	2.30 H	110	32.69	12.96
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	101.15 PK			1.00 V	193	97.86	3.29
2	*2462.00	95.54 AV			1.00 V	193	92.25	3.29
3	2483.50	53.05 PK	74.00	-20.95	1.00 V	193	49.69	3.36
4	2483.50	37.80 AV	54.00	-16.20	1.00 V	193	34.44	3.36
5	4924.00	49.50 PK	74.00	-24.50	1.00 V	240	43.37	6.13
6	4924.00	35.90 AV	54.00	-18.10	1.00 V	240	29.77	6.13
7	7386.00	55.60 PK	74.00	-18.40	2.45 V	278	42.64	12.96
8	7386.00	42.70 AV	54.00	-11.30	2.45 V	278	29.74	12.96

**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.

802.11g

<b>CHANNEL</b>	TX Channel 1	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	51.30 PK	74.00	-22.70	1.00 H	140	48.24	3.06
2	2390.00	40.15 AV	54.00	-13.85	1.00 H	140	37.09	3.06
3	*2412.00	103.54 PK			1.00 H	140	100.42	3.12
4	*2412.00	96.57 AV			1.00 H	140	93.45	3.12
5	4824.00	54.67 PK	74.00	-19.33	1.25 H	110	48.71	5.96
6	4824.00	37.85 AV	54.00	-16.15	1.25 H	110	31.89	5.96
7	7236.00	60.37 PK	74.00	-13.63	2.28 H	157	48.06	12.31
8	7236.00	46.87 AV	54.00	-7.13	2.28 H	157	34.56	12.31
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	49.38 PK	74.00	-24.62	1.00 V	270	46.32	3.06
2	2390.00	38.37 AV	54.00	-15.63	1.00 V	270	35.31	3.06
3	*2412.00	100.57 PK			1.00 V	270	97.45	3.12
4	*2412.00	94.34 AV			1.00 V	270	91.22	3.12
5	4824.00	52.61 PK	74.00	-21.39	1.00 V	200	46.65	5.96
6	4824.00	36.34 AV	54.00	-17.66	1.00 V	200	30.38	5.96
7	7236.00	58.97 PK	74.00	-15.03	2.00 V	0	46.66	12.31
8	7236.00	45.39 AV	54.00	-8.61	2.00 V	0	33.08	12.31

**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.

<b>CHANNEL</b>	TX Channel 6	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	102.40 PK			1.64 H	220	99.19	3.21
2	*2437.00	93.21 AV			1.64 H	220	90.00	3.21
3	4874.00	48.67 PK	74.00	-25.33	2.54 H	221	42.62	6.05
4	4874.00	33.87 AV	54.00	-20.13	2.54 H	221	27.82	6.05
5	7311.00	52.34 PK	74.00	-21.66	2.36 H	278	39.70	12.64
6	7311.00	40.33 AV	54.00	-13.67	2.36 H	278	27.69	12.64
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	102.34 PK			1.50 V	0	99.13	3.21
2	*2437.00	92.54 AV			1.50 V	0	89.33	3.21
3	4874.00	50.64 PK	74.00	-23.36	1.00 V	240	44.59	6.05
4	4874.00	34.25 AV	54.00	-19.75	1.00 V	240	28.20	6.05
5	7311.00	50.34 PK	74.00	-23.66	1.50 V	224	37.70	12.64
6	7311.00	40.12 AV	54.00	-13.88	1.50 V	224	27.48	12.64

**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.

<b>CHANNEL</b>	TX Channel 11	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	104.30 PK			1.50 H	200	101.01	3.29
2	*2462.00	95.34 AV			1.50 H	200	92.05	3.29
3	2483.50	62.34 PK	74.00	-11.66	1.50 H	200	58.98	3.36
4	2483.50	40.21 AV	54.00	-13.79	1.50 H	200	36.85	3.36
5	4924.00	52.34 PK	74.00	-21.66	2.64 H	220	46.21	6.13
6	4924.00	39.87 AV	54.00	-14.13	2.64 H	220	33.74	6.13
7	7386.00	60.10 PK	74.00	-13.90	2.47 H	125	47.14	12.96
8	7386.00	44.57 AV	54.00	-9.43	2.47 H	125	31.61	12.96
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	100.45 PK			1.34 V	0	97.16	3.29
2	*2462.00	93.54 AV			1.34 V	0	90.25	3.29
3	2483.50	52.10 PK	74.00	-21.90	1.34 V	0	48.74	3.36
4	2483.50	36.87 AV	54.00	-17.13	1.34 V	0	33.51	3.36
5	4924.00	50.40 PK	74.00	-23.60	1.54 V	220	44.27	6.13
6	4924.00	36.54 AV	54.00	-17.46	1.54 V	220	30.41	6.13
7	7386.00	54.67 PK	74.00	-19.33	2.56 V	79	41.71	12.96
8	7386.00	44.39 AV	54.00	-9.61	2.56 V	79	31.43	12.96

**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.

802.11n HT20

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.90 PK	74.00	-10.10	1.36 H	150	60.84	3.06
2	2390.00	45.88 AV	54.00	-8.12	1.36 H	150	42.82	3.06
3	*2412.00	104.40 PK			1.36 H	150	101.28	3.12
4	*2412.00	87.35 AV			1.36 H	150	84.23	3.12
5	4824.00	52.37 PK	74.00	-21.63	1.50 H	226	46.41	5.96
6	4824.00	37.98 AV	54.00	-16.02	1.50 H	226	32.02	5.96
7	7236.00	58.60 PK	74.00	-15.40	1.43 H	269	46.29	12.31
8	7236.00	45.00 AV	54.00	-9.00	1.43 H	269	32.69	12.31
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.67 PK	74.00	-14.33	1.50 V	230	56.61	3.06
2	2390.00	41.37 AV	54.00	-12.63	1.50 V	230	38.31	3.06
3	*2412.00	100.00 PK			1.50 V	230	96.88	3.12
4	*2412.00	82.97 AV			1.50 V	230	79.85	3.12
5	4824.00	48.67 PK	74.00	-25.33	1.38 V	0	42.71	5.96
6	4824.00	33.24 AV	54.00	-20.76	1.38 V	0	27.28	5.96
7	7236.00	52.37 PK	74.00	-21.63	1.36 V	360	40.06	12.31
8	7236.00	40.22 AV	54.00	-13.78	1.36 V	360	27.91	12.31

**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.

<b>CHANNEL</b>	TX Channel 6	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	103.50 PK			1.50 H	244	100.29	3.21
2	*2437.00	94.57 AV			1.50 H	244	91.36	3.21
3	4874.00	49.64 PK	74.00	-24.36	1.22 H	235	43.59	6.05
4	4874.00	33.24 AV	54.00	-20.76	1.22 H	235	27.19	6.05
5	7311.00	53.67 PK	74.00	-20.33	1.23 H	120	41.03	12.64
6	7311.00	40.31 AV	54.00	-13.69	1.23 H	120	27.67	12.64
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	100.30 PK			1.00 V	134	97.09	3.21
2	*2437.00	91.34 AV			1.00 V	134	88.13	3.21
3	4874.00	48.67 PK	74.00	-25.33	1.34 V	167	42.62	6.05
4	4874.00	32.70 AV	54.00	-21.30	1.34 V	167	26.65	6.05
5	7311.00	50.34 PK	74.00	-23.66	1.36 V	90	37.70	12.64
6	7311.00	40.48 AV	54.00	-13.52	1.36 V	90	27.84	12.64

**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.

<b>CHANNEL</b>	TX Channel 11	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	104.50 PK			2.47 H	0	101.21	3.29
2	*2462.00	88.97 AV			2.47 H	0	85.68	3.29
3	2483.50	68.97 PK	74.00	-5.03	2.47 H	0	65.61	3.36
4	2483.50	45.67 AV	54.00	-8.33	2.47 H	0	42.31	3.36
5	4924.00	55.67 PK	74.00	-18.33	2.36 H	150	49.54	6.13
6	4924.00	40.34 AV	54.00	-13.66	2.36 H	150	34.21	6.13
7	7386.00	60.87 PK	74.00	-13.13	1.00 H	248	47.91	12.96
8	7386.00	43.69 AV	54.00	-10.31	1.00 H	248	30.73	12.96
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	99.10 PK			1.20 V	0	95.81	3.29
2	*2462.00	83.54 AV			1.20 V	0	80.25	3.29
3	2483.50	63.45 PK	74.00	-10.55	1.20 V	0	60.09	3.36
4	2483.50	41.02 AV	54.00	-12.98	1.20 V	0	37.66	3.36
5	4924.00	56.89 PK	74.00	-17.11	1.67 V	227	50.76	6.13
6	4924.00	43.06 AV	54.00	-10.94	1.67 V	227	36.93	6.13
7	7386.00	55.13 PK	74.00	-18.87	2.36 V	57	42.17	12.96
8	7386.00	40.37 AV	54.00	-13.63	2.36 V	57	27.41	12.96

**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.

**BELOW 1GHz WORST-CASE DATA:**

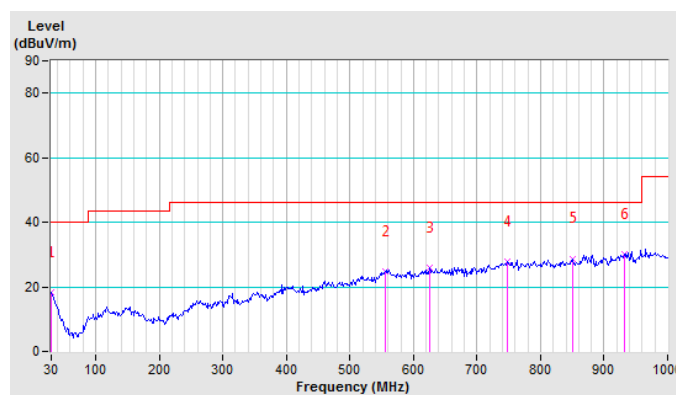
**BT-LE (GFSK)**

<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.00	18.12 QP	40.00	-21.88	1.00 H	160	29.25	-11.13
2	555.42	24.72 QP	46.00	-21.28	1.00 H	104	28.68	-3.96
3	625.37	25.87 QP	46.00	-20.13	1.00 H	64	29.02	-3.15
4	748.17	27.91 QP	46.00	-18.09	1.00 H	249	29.03	-1.12
5	850.77	28.76 QP	46.00	-17.24	1.00 H	80	29.51	-0.75
6	931.60	30.03 QP	46.00	-15.97	1.00 H	0	29.00	1.03

**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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.



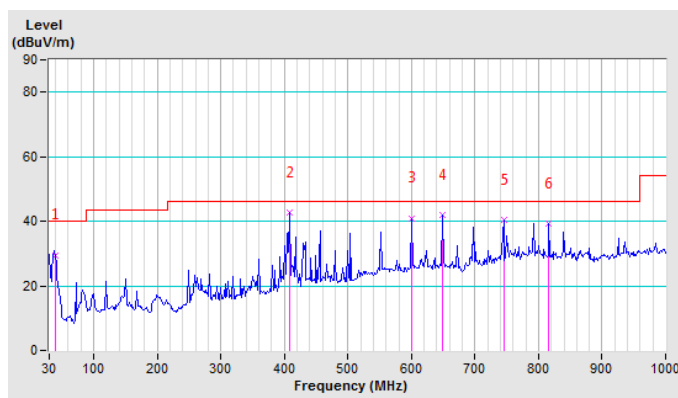


<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>	Quasi-Peak (QP)
<b>FREQUENCY RANGE</b>	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	39.33	29.53 QP	40.00	-10.47	2.00 V	185	45.53	-16.00
2	407.74	42.85 QP	46.00	-3.15	2.00 V	108	51.12	-8.27
3	600.50	40.97 QP	46.00	-5.03	2.00 V	130	45.61	-4.64
4	648.69	41.95 QP	46.00	-4.05	2.00 V	30	45.03	-3.08
5	745.06	40.38 QP	46.00	-5.62	2.00 V	160	41.43	-1.05
6	816.57	39.38 QP	46.00	-6.62	2.00 V	192	40.87	-1.49

**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.



**ABOVE 1GHz TEST DATA:**

**BT-LE (GFSK)**

<b>CHANNEL</b>	TX Channel 0	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	42.27 PK	74.00	-31.73	1.77 H	218	45.88	-3.61
2	2390.00	28.76 AV	54.00	-25.24	1.77 H	218	32.37	-3.61
3	*2402.00	98.83 PK			1.77 H	218	102.40	-3.57
4	*2402.00	93.57 AV			1.77 H	218	97.14	-3.57
5	4804.00	45.32 PK	74.00	-28.68	1.00 H	155	43.24	2.08
6	4804.00	32.86 AV	54.00	-21.14	1.00 H	155	30.78	2.08
7	7206.00	51.52 PK	74.00	-22.48	1.00 H	0	42.78	8.74
8	7206.00	37.62 AV	54.00	-16.38	1.00 H	0	28.88	8.74
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	38.83 PK	74.00	-35.17	1.12 V	262	42.44	-3.61
2	2390.00	25.95 AV	54.00	-28.05	1.12 V	262	29.56	-3.61
3	*2402.00	85.73 PK			1.12 V	262	89.30	-3.57
4	*2402.00	78.81 AV			1.12 V	262	82.38	-3.57
5	4804.00	46.04 PK	74.00	-27.96	1.00 V	0	43.96	2.08
6	4804.00	33.14 AV	54.00	-20.86	1.00 V	0	31.06	2.08
7	7206.00	52.33 PK	74.00	-21.67	1.00 V	360	43.59	8.74
8	7206.00	37.69 AV	54.00	-16.31	1.00 V	360	28.95	8.74

**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.

<b>CHANNEL</b>	TX Channel 19	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	*2440.00	96.36 PK			1.86 H	216	99.81	-3.45
2	*2440.00	90.80 AV			1.86 H	216	94.25	-3.45
3	4880.00	45.35 PK	74.00	-28.65	1.00 H	360	43.09	2.26
4	4880.00	31.62 AV	54.00	-22.38	1.00 H	360	29.36	2.26
5	7320.00	50.69 PK	74.00	-23.31	1.00 H	360	41.58	9.11
6	7320.00	36.93 AV	54.00	-17.07	1.00 H	360	27.82	9.11
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	*2440.00	82.60 PK			1.65 V	261	86.05	-3.45
2	*2440.00	77.21 AV			1.65 V	261	80.66	-3.45
3	4880.00	45.95 PK	74.00	-28.05	1.00 V	0	43.69	2.26
4	4880.00	35.05 AV	54.00	-18.95	1.00 V	0	32.79	2.26
5	7320.00	50.46 PK	74.00	-23.54	1.00 V	0	41.35	9.11
6	7320.00	36.86 AV	54.00	-17.14	1.00 V	0	27.75	9.11

**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.

<b>CHANNEL</b>	TX Channel 39	<b>DETECTOR FUNCTION</b>	Peak (PK)
<b>FREQUENCY RANGE</b>	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	*2480.00	97.49 PK			1.56 H	219	100.83	-3.34
2	*2480.00	92.16 AV			1.56 H	219	95.50	-3.34
3	2483.50	55.67 PK	74.00	-18.33	1.56 H	219	59.00	-3.33
4	2483.50	50.10 AV	54.00	-3.90	1.56 H	219	53.43	-3.33
5	4960.00	45.22 PK	74.00	-28.78	1.00 H	0	42.76	2.46
6	4960.00	33.06 AV	54.00	-20.94	1.00 H	0	30.60	2.46
7	7440.00	51.54 PK	74.00	-22.46	1.00 H	360	42.06	9.48
8	7440.00	39.21 AV	54.00	-14.79	1.00 H	360	29.73	9.48
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	*2480.00	83.60 PK			1.04 V	255	86.94	-3.34
2	*2480.00	79.02 AV			1.04 V	255	82.36	-3.34
3	2483.50	43.32 PK	74.00	-30.68	1.04 V	255	46.65	-3.33
4	2483.50	36.36 AV	54.00	-17.64	1.04 V	255	39.69	-3.33
5	4960.00	45.63 PK	74.00	-28.37	1.00 V	360	43.17	2.46
6	4960.00	33.44 AV	54.00	-20.56	1.00 V	360	30.98	2.46
7	7440.00	51.64 PK	74.00	-22.36	1.00 V	0	42.16	9.48
8	7440.00	38.19 AV	54.00	-15.81	1.00 V	0	28.71	9.48

**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.

### 4.3 6dB BANDWIDTH MEASUREMENT

#### 4.3.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Jun. 13,18	Jun. 12,19
Power Sensor	Keysight	U2021XA	MY55060018	Jun. 13,18	Jun. 12,19
Power Meter	Anritsu	ML2495A	1139001	Apr. 13,18	Apr. 13,19
Power Sensor	Anritsu	MA2411B	1531155	Apr. 13,18	Apr. 13,19
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 21, 17	Oct. 20, 18
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,18	Sep. 04,19
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 08,17	Nov. 07,18
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Signal Generator	Agilent	N5183A	MY50140980	Jan. 02,18	Jan. 01,19
Agile Signal Generator	Agilent	8645A	Agilent	Sep. 01, 18	Aug. 31, 19
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 21,18	Mar. 20,19
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jan. 02,18	Jan. 01,19
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Jul.06, 18	Jul. 05, 19
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

**NOTE:**

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.

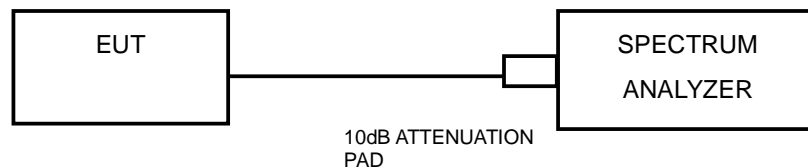
#### 4.3.3 TEST PROCEDURE

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.

#### 4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.3.5 TEST SETUP



#### 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

##### 802.11b

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	8.58	0.5	PASS
6	2437	9.06	0.5	PASS
11	2462	9.04	0.5	PASS

##### 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.39	0.5	PASS
6	2437	16.40	0.5	PASS
11	2462	16.40	0.5	PASS

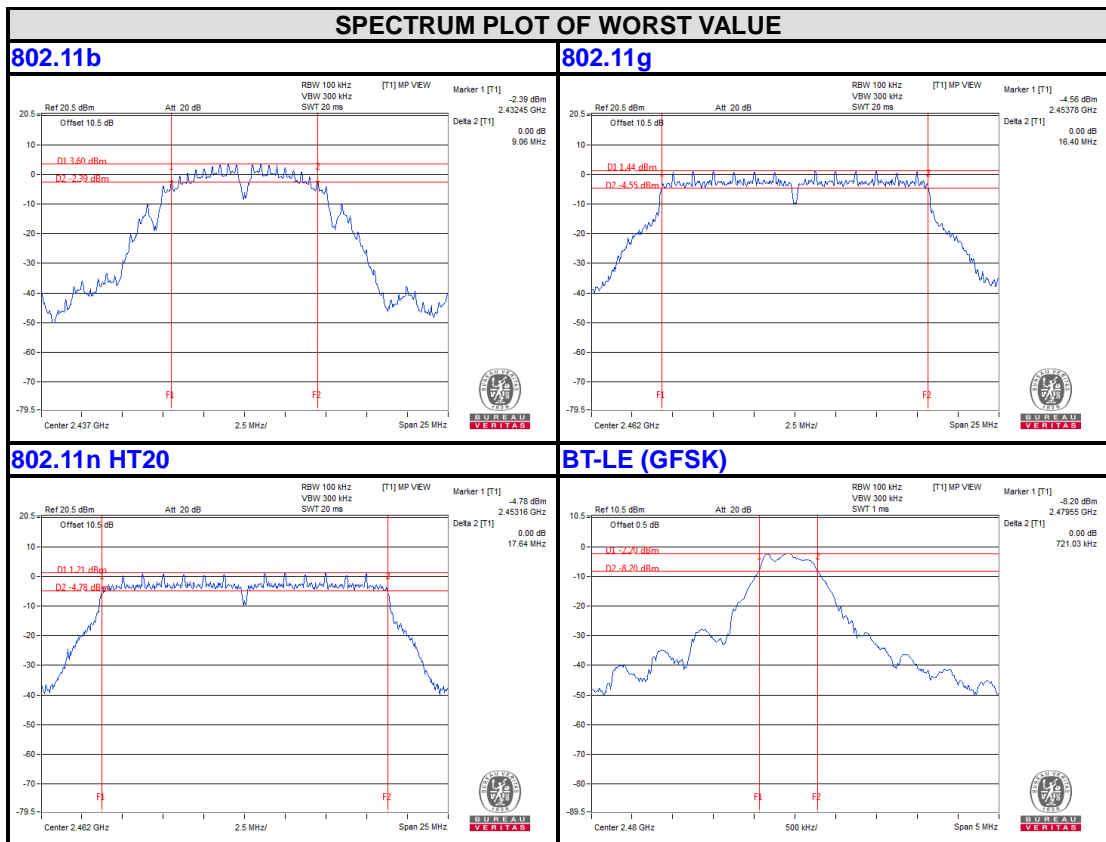
##### 802.11n HT20

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.64	0.5	PASS
6	2437	17.64	0.5	PASS
11	2462	17.64	0.5	PASS

**BT-LE (GFSK)**

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
0	2402	0.72	0.5	PASS
19	2440	0.71	0.5	PASS
39	2480	0.72	0.5	PASS



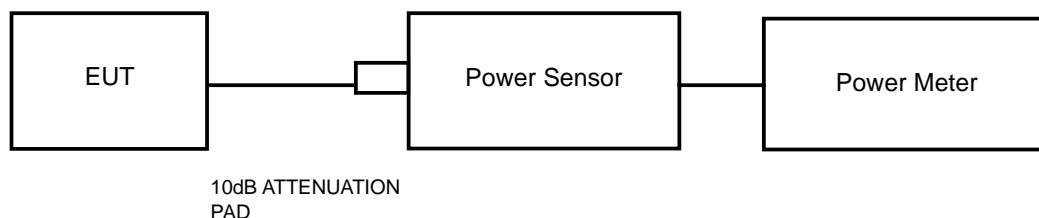


## 4.4 CONDUCTED OUTPUT POWER

### 4.4.1 LIMITS OF CONDUCTED OUTPUT POWER MEASUREMENT

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

### 4.4.2 TEST SETUP



### 4.4.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	Jun. 13,18	Jun. 12,19
Power Sensor	Keysight	U2021XA	MY55060018	Jun. 13,18	Jun. 12,19
Power Meter	Anritsu	ML2495A	1139001	Apr. 13,18	Apr. 13,19
Power Sensor	Anritsu	MA2411B	1531155	Apr. 13,18	Apr. 13,19
Digital Multimeter	FLUKE	15B	A1220010DG	Oct. 21, 17	Oct.20, 18
Humid & Temp Programmable Tester	Haida	HD-2257	110807201	Sep.05,17	Sep. 04,18
Oscilloscope	Agilent	DSO9254A	MY51260160	Nov. 08,17	Nov. 07,18
Signal Analyzer	Rohde & Schwarz	FSV7	102331	Nov. 04,17	Nov. 03,18
Signal Generator	Agilent	N5183A	MY50140980	Jan. 02,18	Jan. 01,19
Agile Signal Generator	Agilent	8645A	Agilent	Sep.01, 17	Aug.31, 18
Spectrum Analyzer	Keysight	N9020A	MY55400499	Mar. 21,18	Mar. 20,19
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Jan. 02,18	Jan. 01,19
BLUETOOTH TESTER	Rohde&Schwarz	CBT32	100811	Jul.06, 18	Jul. 05, 19
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A	N/A
DC Source	Keysight	E3642A	MY56146098	N/A	N/A

**NOTE:**

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.

#### 4.4.4 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.

#### 4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

#### 4.4.6 EUT OPERATING CONDITIONS

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

#### 4.4.7 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	11.53	14.223	1	PASS
6	2437	11.37	13.709	1	PASS
11	2462	11.08	12.823	1	PASS

###### 802.11g

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	11.51	14.158	1	PASS
6	2437	11.12	12.942	1	PASS
11	2462	11.45	13.964	1	PASS

###### 802.11n HT20

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
1	2412	10.96	12.474	1	PASS
6	2437	11.03	12.677	1	PASS
11	2462	11.35	13.646	1	PASS

###### BT-LE (GFSK)

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER (dBm)	PEAK POWER (mW)	PEAK POWER LIMIT (W)	PASS/FAIL
0	2402	-1.76	0.6668	1	PASS
19	2440	-0.69	0.8531	1	PASS
39	2480	-0.37	0.9183	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	9.22	8.356
6	2437	9.13	8.185
11	2462	9.01	7.962

### 802.11g

CHANNEL	CHANNEL FREQUENCY(MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	9.05	8.035
6	2437	8.62	7.278
11	2462	8.95	7.852

### 802.11n HT20

CHANNEL	CHANNEL FREQUENCY(MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
1	2412	8.82	7.621
6	2437	8.85	7.674
11	2462	9.17	8.26

BT-LE (GFSK)

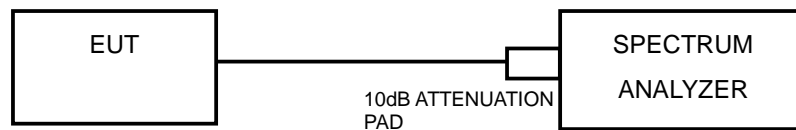
CHANNEL	CHANNEL FREQUENCY(MHz)	AVERAGE POWER (dBm)	AVG. POWER (mW)
0	2402	-3.06	0.4943
19	2440	-2.71	0.5358
39	2480	-2.25	0.5957

## 4.5 POWER SPECTRAL DENSITY MEASUREMENT

### 4.5.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

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

### 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

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

### 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

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-19.81	8.00	PASS
6	2437	-19.79	8.00	PASS
11	2462	-20.20	8.00	PASS

##### 802.11g

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-20.07	8.00	PASS
6	2437	-20.25	8.00	PASS
11	2462	-19.92	8.00	PASS

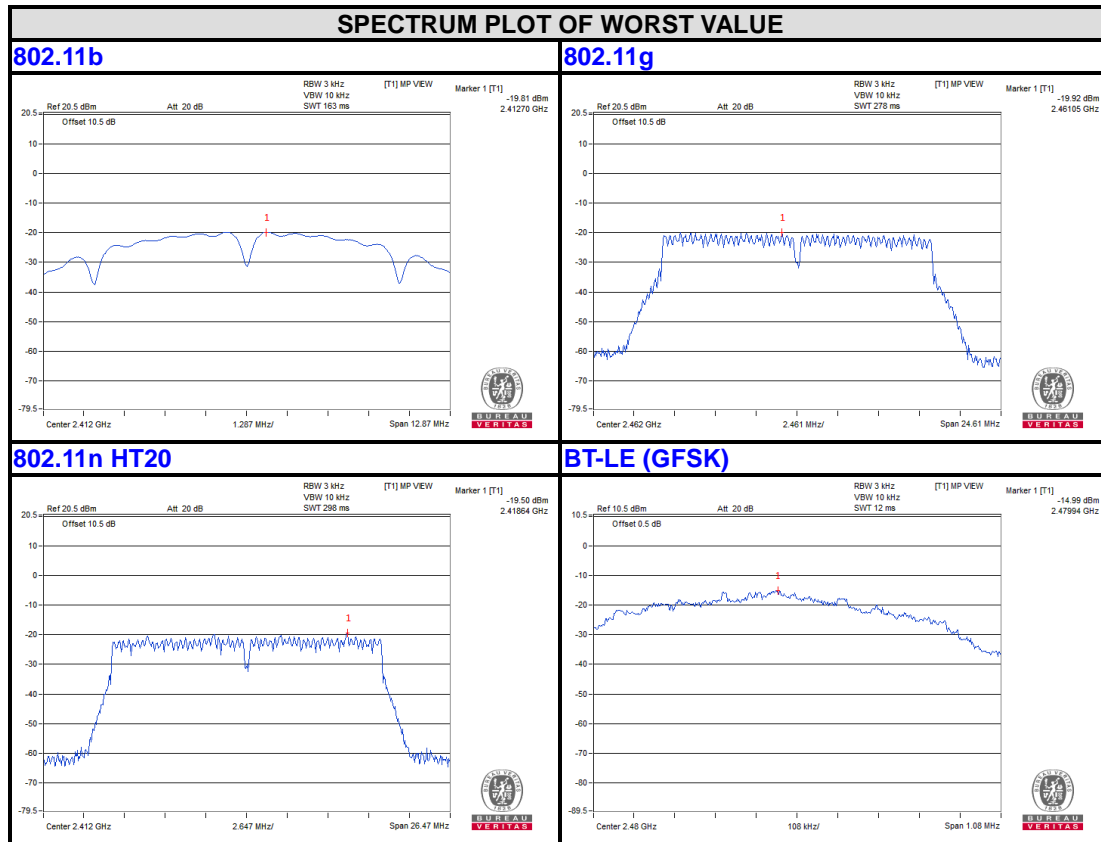
##### 802.11n HT20

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-19.50	8.00	PASS
6	2437	-19.76	8.00	PASS
11	2462	-19.67	8.00	PASS



BT-LE (GFSK)

Channel	FREQ. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
0	2402	-15.31	8.00	PASS
19	2440	-16.69	8.00	PASS
39	2480	-15.00	8.00	PASS

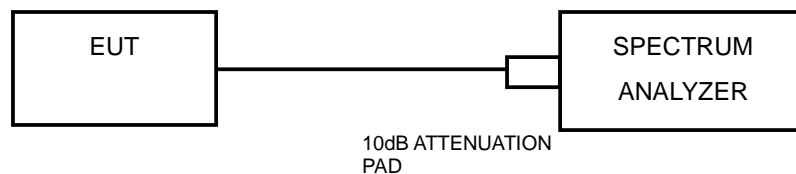


## 4.6 OUT OF BAND EMISSION MEASUREMENT

### 4.6.1 LIMITS OF OUT OF BAND EMISSION MEASUREMENT

Below  $-20\text{dB}$  of the highest emission level of operating band (in 100kHz Resolution Bandwidth).

### 4.6.2 TEST SETUP



### 4.6.3 TEST INSTRUMENTS

Refer to section 4.3.2 to get information of above instrument.

### 4.6.4 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.

#### 4.6.5 DEVIATION FROM TEST STANDARD

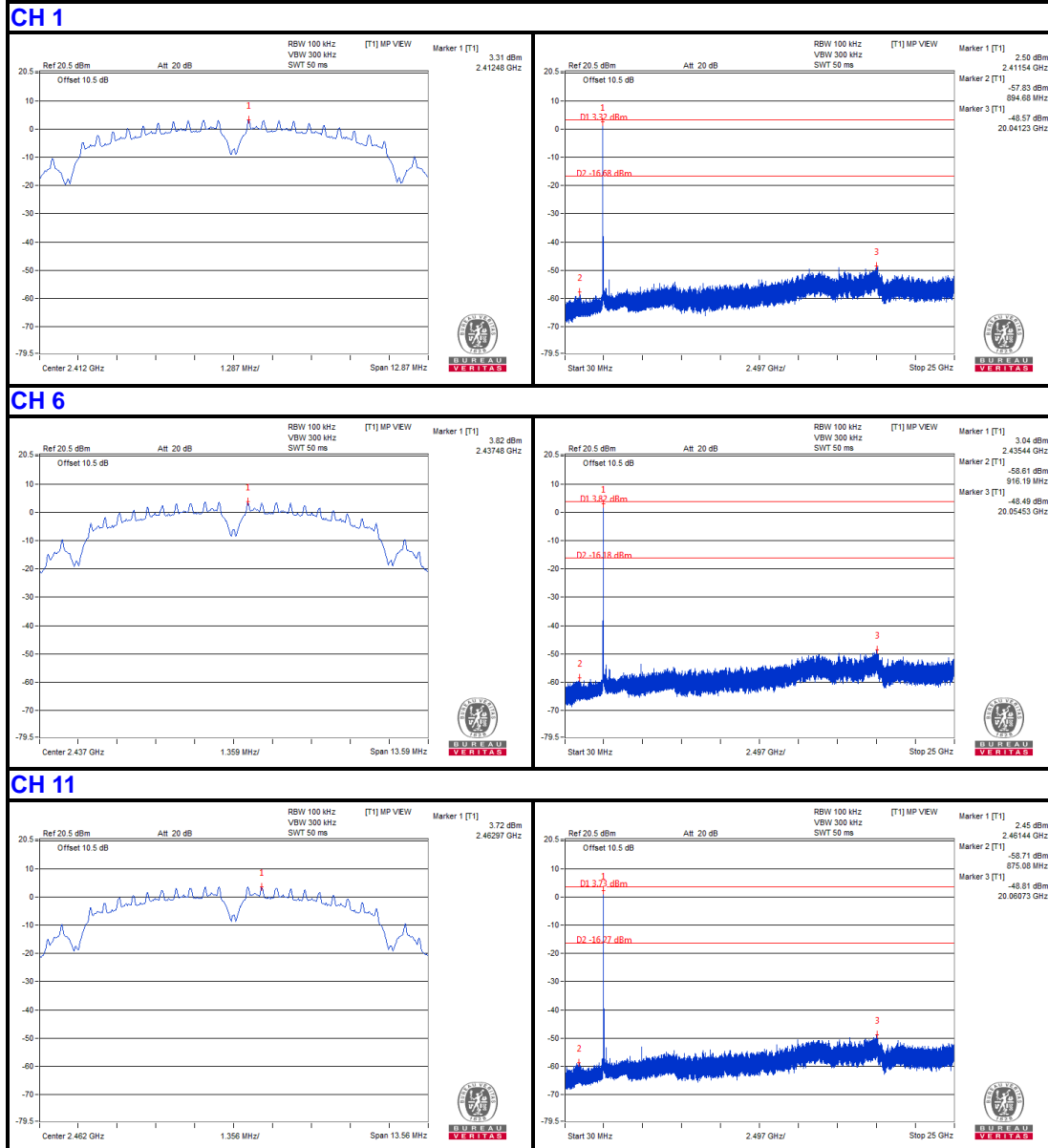
No deviation.

#### 4.6.6 EUT OPERATING CONDITION

Same as item 4.3.6

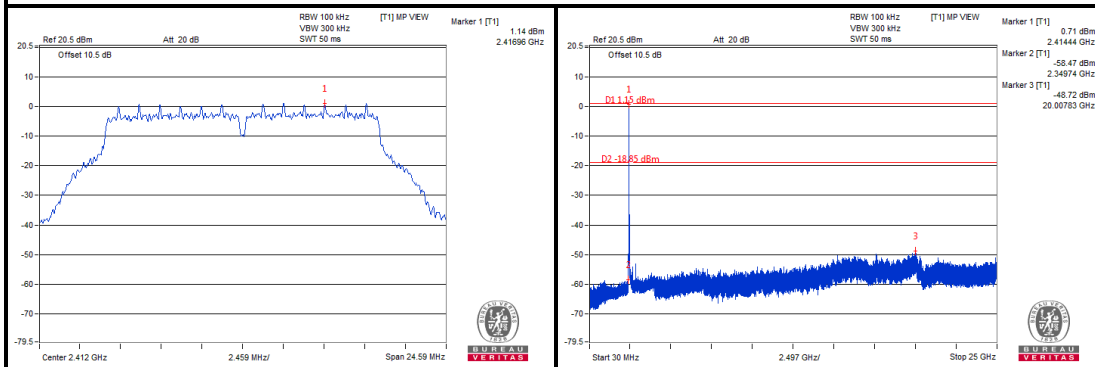
## 4.6.7 TEST RESULTS

### 802.11b

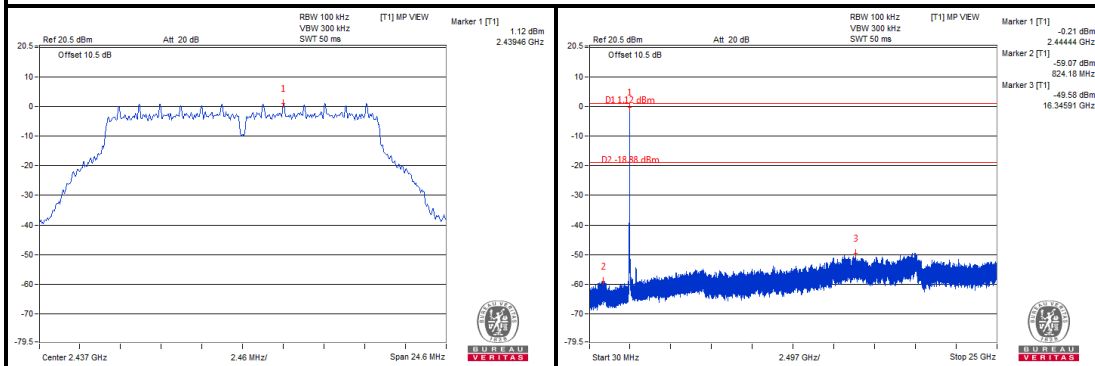


802.11g

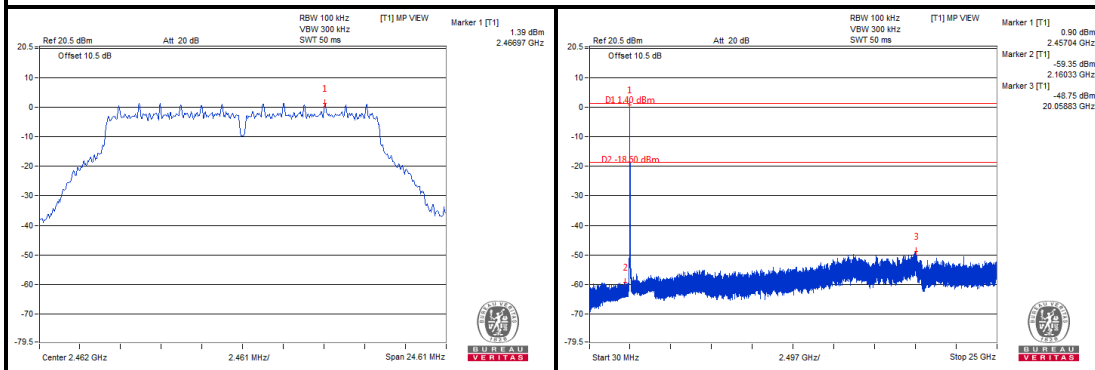
CH 1



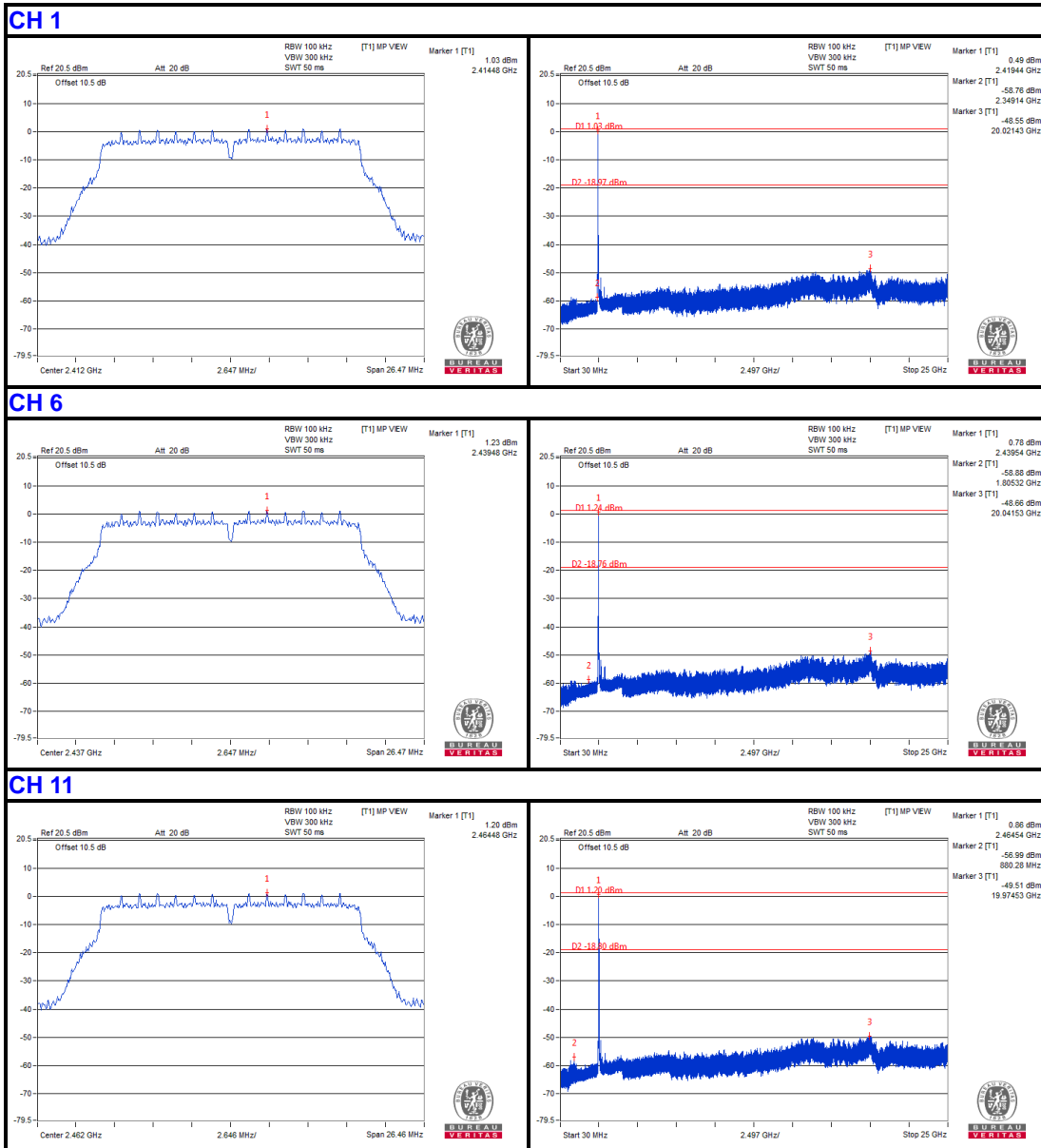
CH 6



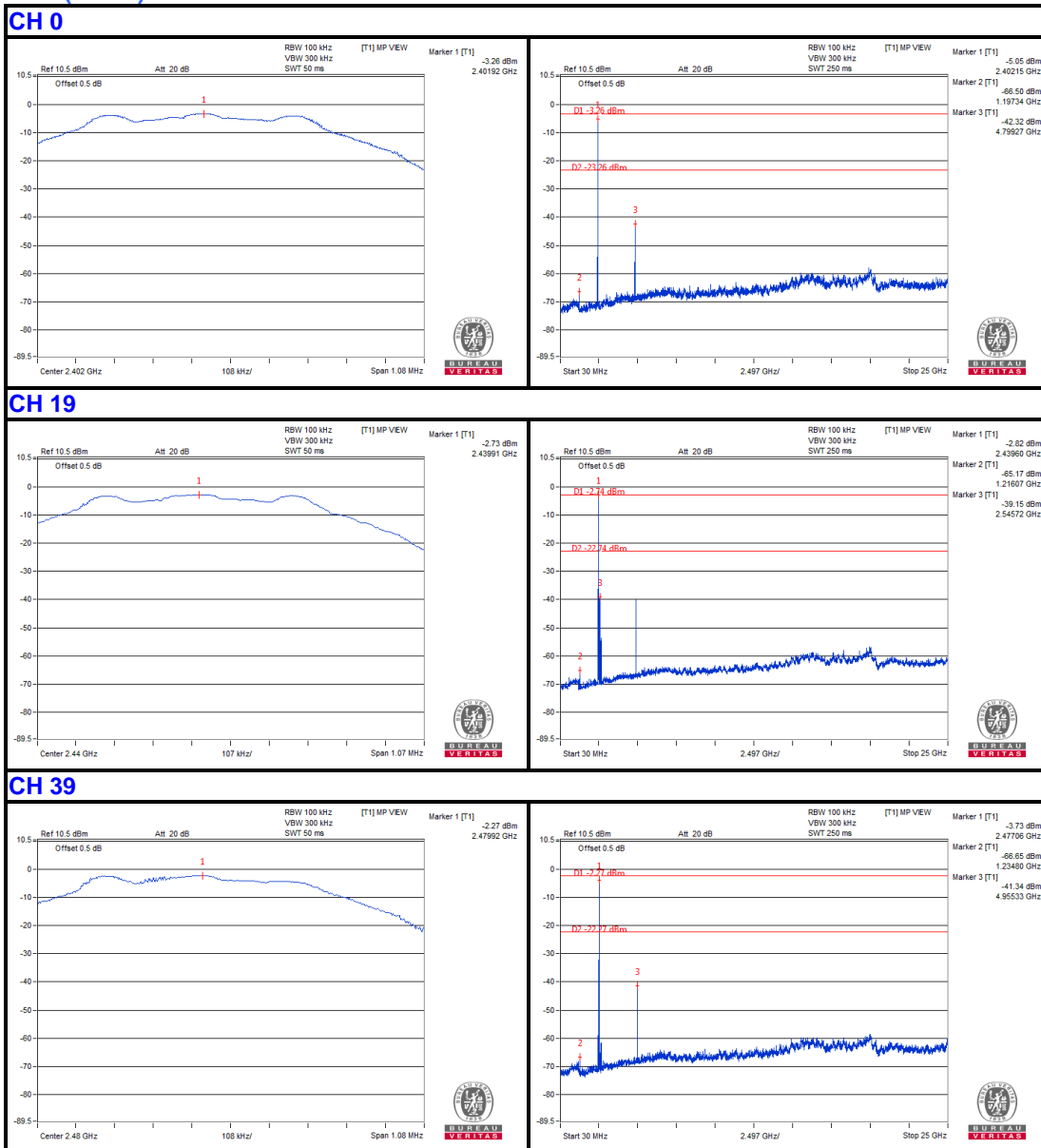
CH 11



## 802.11n (HT20)

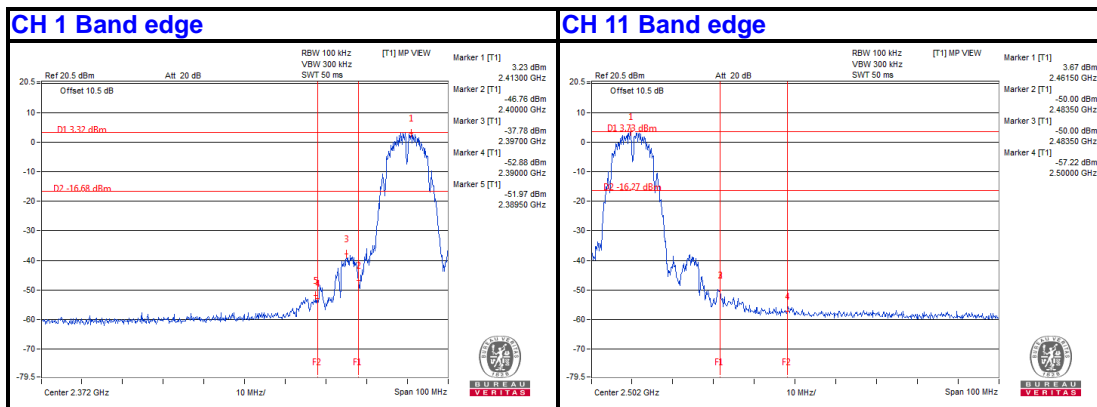


**BT-LE (GFSK)**

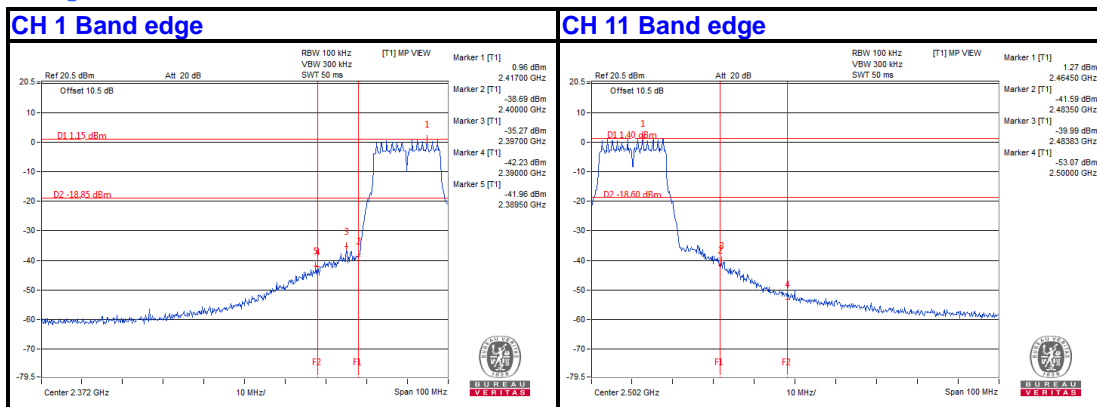




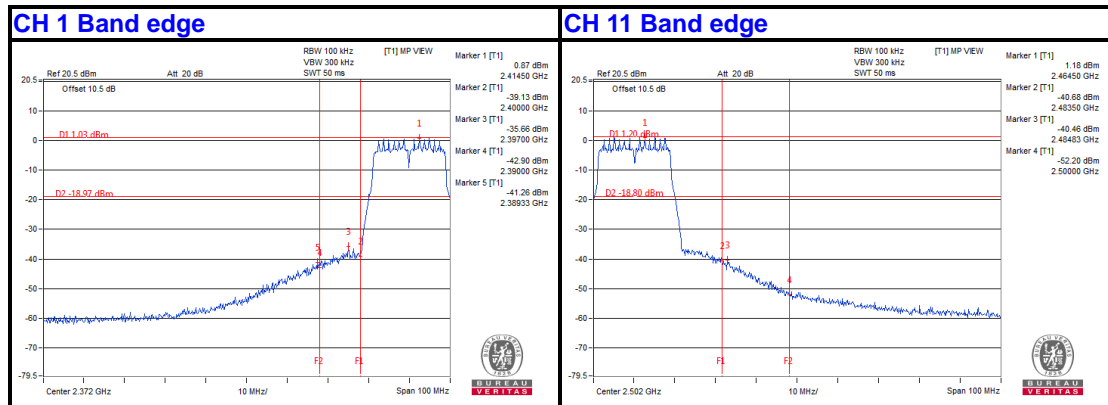
802.11b



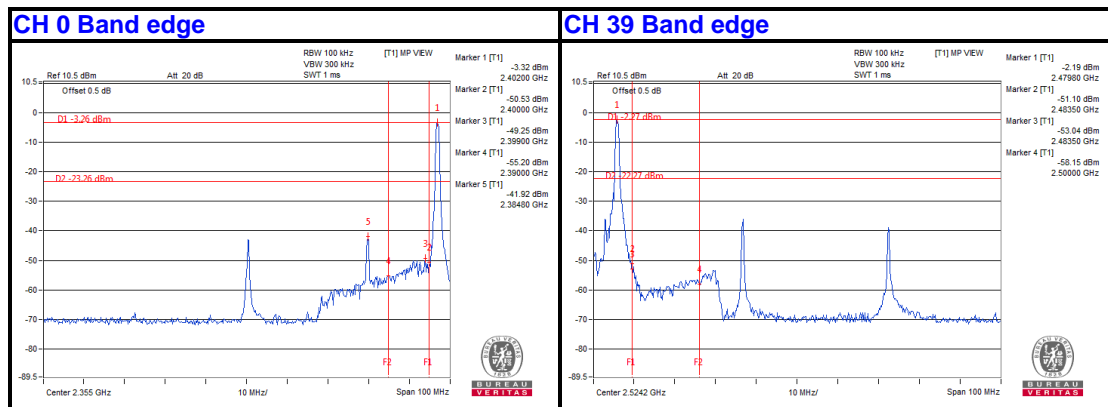
802.11g



## 802.11n HT20



## BT-LE (GFSK)



## 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---**