No.:
FCCSZ2025-0077-RF2

TEST REPORT

FCC ID	:	**2A3HVP1601**
NAME OF SAMPLE	:	**Hydrow Touchscreen Monitor**
APPLICANT	:	**Hydrow, Inc**
CLASSIFICATION OF TEST	:	**N/A**

CVC Testing Technology (Shenzhen) Co., Ltd.

Applicant	Hydrow, Inc
Address	10 Summer St, Floor 5, Boston, MA,USA

Manufacturer	Hydrow, Inc
Address	10 Summer St, Floor 5, Boston, MA,USA
Product Name	Hydrow Touchscreen Monitor
Brand Name	N/A
Model Name	P1601
Additional Model	N/A
Date of Receipt.	Jul.30, 2025
Date of testing	Jul.30, 2025 ~ Aug.30, 2025
Sample No.	N/A
Standard(s)	**FCC Part 15, Subpart C, Section 15.247**
CONCLUSION:	The equipment under test was found to comply with the requirements of the standard(s) applied. Seal of CVC **Issue Date:Aug.30, 2025**

Compiled by: Liang Jiatong	Reviewed by: Mo Xianbiao	Approved by: Dong Sanbi
Signature: Liang Jiatong	Signature: Mo Xianbiao	Signature:

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2025-0077-RF2	Original release	Aug.30, 2025

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15 Subpart C			
STANDARD SECTION	**TEST TYPE AND LIMIT**	**RESULT**	**REMARK**
FCC Part 15.207	AC Power Conducted Emission	PASS	See section 3.1
FCC Part 15.247(d) FCC Part 15.209 FCC Part 15.205	Radiated Emission and Restricted bands Measurements	PASS	See section 3.2
	Conducted Spurious Emission	PASS	Appendix E of FCCSZ2025-0077-RF2-A1&A2
	Band Edge Measurements	PASS	Appendix F of FCCSZ2025-0077-RF2-A1&A2
FCC Part 15.247(a)(2)	6dB Bandwidth Measurement	PASS	Appendix A of FCCSZ2025-0077-RF2-A1&A2
---	Occupied Channel Bandwidth	N/A	Appendix B of FCCSZ2025-0077-RF2-A1&A2 (For reference)
FCC Part 15.247(b)	Conducted Output power	PASS	Appendix C of FCCSZ2025-0077-RF2-A1&A2
FCC Part 15.247(e)	Power Spectral Density	PASS	Appendix D of FCCSZ2025-0077-RF2-A1&A2
FCC Part 15.203 FCC Part 15.247(b)	Antenna Requirement	PASS	See section 3.8

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal.Day	Cal. Due
Antenna Port Conducted Test (BT/WiFi)						
Spectrum Analyzer	R&S	FSV 30	CS030002	1 year	2025/04/23	2026/04/22
Analog signal Generator	R&S	SMB 100A	CS0300015	1 year	2025/04/23	2026/04/22
Vector signal Generator	R&S	SGT 100A	CS0300017	1 year	2025/04/23	2026/04/22
RF control unit(BT/WIFI)	Tonscend	JS0806-2-8CH	CS0300023	1 year	2025/04/23	2026/04/22
RF control unit(DTV)	Tonscend	JS0806-1	CS0300024	1 year	2025/04/23	2026/04/22
DC power supply	R&S	HMC8041-G	CS0300026	1 year	2025/04/23	2026/04/22
#3Shielding room	MORI	443	CS0300009	3 year	2023/05/17	2026/05/16
Digital multimeter	FLUKE	18B+	CS0200056	1 year	2025/05/22	2026/05/21
Power splitter	Anritsu	K240CPOWERDIVIDER	012334	1 year	2025/06/06	2026/06/05
Temperature and humidity meter	UNI-T	A10T	C193561457	1 year	2025/04/29	2026/04/28
Radiation Spurious Test - 3M Chamber #2						
Spectrum Analyzer	R&S	FSV 40	CS030001	1 year	2025/04/23	2026/04/22
Spectrum Analyzer	R&S	FSVA 3044	CS030004	1 year	2025/05/22	2026/05/21
EMI Test Receiver	R&S	ESR3	CS0300005	1 year	2025/05/22	2026/05/21
Horn antenna(1GHz-18GHz)	ETS-Lindgren	3117	CS0300007	1 year	2025/03/29	2026/03/28
Horn antenna(18GHz-40GHz)	STEATITE	QMS-00880	CS0300008	1 year	2025/03/22	2026/03/21
Automatic control unit(RSE)	R&S	OSP220	CS0300019	1 year	2025/06/06	2026/06/05
Filter group(RSE-BT/WiFi)	R&S	WiFi/BT Variant 1	CS0300020	1 year	2025/04/23	2026/04/22
Filter group(RSE-Cellular)	R&S	Cellular Variant 1	CS0300021	1 year	2025/04/23	2026/04/22
Preamplifier(1GHz-18GHz)	R&S	SCU18F	CS0300031-1	1 year	2025/04/23	2026/04/22
Preamplifier(1GHz-18GHz)	R&S	SCU-18F	CS0300031	1 year	2025/04/23	2026/04/22
Comprehensive Test Instrument	R&S	CMW 500	CS0300033	1 year	2025/05/23	2026/05/22
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB9168	CS0200006	1 year	2025/01/23	2026/01/22
Preamplifier(1GHz-18GHz)	R&S	SCU-01F	CS0200042	1 year	2025/04/23	2026/04/22
Preamplifier(18GHz-40GHz)	R&S	SCU40A	CS0200045	1 year	2025/04/23	2026/04/22
Attenuator	boyang	BY--N-2W-5dB	/	1 year	2025/01/23	2026/01/22
Temperature and humidity meter	yuhuaze	/	WK0001	1 year	2025/04/29	2026/04/28
#2 control room	MORI	433	CS0300028	3 year	2023/05/17	2026/05/16
3m anechoic chamber	MORI	966	CS0300011	3 year	2023/05/17	2026/05/16
Radiation Spurious Test - 3M Chamber #1						
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2025/05/22	2026/05/21
Loop antenna（8.3k~30MHz）	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2025/06/19	2026/06/18
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	1132	1 year	2025/02/28	2026/02/27
3m anechoic chamber	MORI	966	N/A	1 year	2025/05/19	2026/05/18
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100298	1 year	2025/04/23	2026/04/22
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2025/04/23	2026/04/22
#1 control room	MORI	433	/	3year	2023/05/17	2026/05/16
Temperature and humidity meter	/	C193561473	C193561473	1 year	2025/04/29	2026/04/28

Conducted emission						
EMI Test Receiver	R&S	ESR3	CS0300001	1 year	2025/05/22	2026/05/21
Voltage probe	SCHWARZBECK	CVP9222C	CS0200002-2	1 year	2025/04/29	2026/04/28
Voltage probe	R&S	EZ-17	CS0200002-3	1 year	2025/04/23	2026/04/22
ISN network	R&S	ENY81	CS0200015	1 year	2025/04/23	2026/04/22
ISN network	R&S	ENY81Cat6	CS0200016	1 year	2025/04/23	2026/04/22
Artificial Power Network (three-phase)	SCHWARZBECK	NNLK&8129RC	CS0200037	1 year	2025/04/23	2026/04/22
Temperature and humidity meter	UNI-T	A10T	C193561430	1 year	2025/04/29	2026/04/28
limiter（10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2025/05/16	2026/05/15

1.2 TEST LOCATION

The tests and measurements refer to this report were performed by EMC testing Lab of CVC Testing Technology (Shenzhen) Co., Ltd.

Address: No. 1301-14, Guanguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China

Post Code：518110 Tel：0755-23763060-8805
Fax：0755-23763060 E-mail：sz-kf@cvc.org.cn
FCC(Test firm designation number：CN1363)
IC(Test firm CAB identifier number：CN0137)
CNAS(Test firm designation number：L16091)

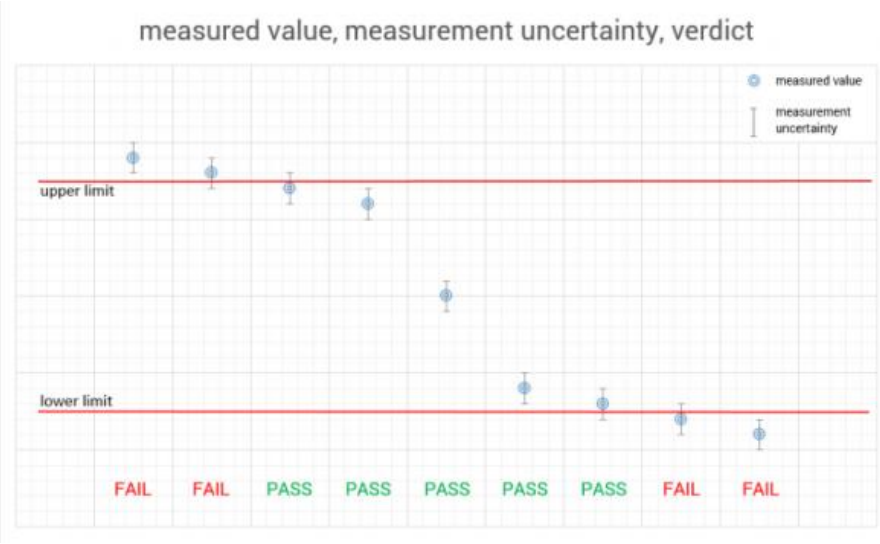
1.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Measurement Uncertainty
1	Occupied Channel Bandwidth	±1.86 %
2	RF output power, conducted	±0.9 dB
3	Power Spectral Density, conducted	±0.8 dB
4	Conducted emission test	+/-2.7 dB
5	Radiated emission 9kHz-30MHz	+/-5.6 dB
	Radiated emission 30MHz-1GHz	+/-4.6 dB
	Radiated emission 1GHz-18GHz	+/-4.4 dB
	Radiated emission 18GHz-40GHz	+/-5.1 dB
6	Temperature	±0.73 °C
7	Humidity	±3.90 %
8	Supply voltages	±0.37 %
9	Time	±0.27 %
Remark: 95% Confidence Levels, k=2.		

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

Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed.
The measurement uncertainty is mentioned in this test report, but is not taken into account - neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.



2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT NAME	Hydrow Touchscreen Monitor
BRAND NAME	N/A
MODEL NAME	P1601
ADDITIONAL MODEL	N/A
MODEL DIFFERENCES	N/A
POWER SUPPLY	DC 15V 2A From Adapter
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM GFSK for DTS
OPERATING FREQUENCY	2412MHz ~ 2462MHz for 802.11b/g/n(HT20) 2422MHz ~ 2452MHz 802.11n(HT40) 2402MHz ~ 2480MHz for BT-LE(1M/2M)
NUMBER OF CHANNEL	802.11b/g/n(HT20): 11 802.11n(HT40): 7 BT-LE (1M/2M): 40
PEAK OUTPUT POWER	WLAN: 17.27dBm (Maximum) BT-LE: 13.07dBm (Maximum)
ANTENNA TYPE(Remark 3)	WiFi 2.4G: FPC Antenna, with 2.90 dBi gain
	BT-LE: FPC Antenna, with 2.90 dBi gain
HARDWARE VERSION:	N/A
SOFTWARE VERSION:	N/A
FIX FREQUENCY SOFTWARE	SecureCRT.exe
I/O PORTS	Refer to User's Manual

Remark:

1. For 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. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.

2.2 DESCRIPTION OF ACCESSORIES

N/A

2.3 OPERATING FREQUENCY OF EACH CHANNEL

2.4G WIFI					
802.11b/g/n(HT20)					
CHANNEL	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**
1	**2412**	5	2432	9	2452
2	2417	**6**	**2437**	10	2457
3	2422	7	2442	**11**	**2462**
4	2427	8	2447		
802.11n(HT40)					
CHANNEL	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**	**CHANNEL**	**FREQ. (MHz)**
3	**2422**	**6**	**2437**	**9**	**2452**
4	2427	7	2442		
5	2432	8	2447		

BT-LE (1M/2M)							
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**

1. The channels which were indicated in bold type of the above channel list were selected as representative test channel. Therefore only the data of the test channels were recorded in this report.

2. By means of mobile phone engineering mode fix frequency, the power levels during the tests were set according to the following codes:

802.11b		802.11g		802.11n(HT20)		802.11n(HT40)		BT-LE 1M&2M	
FREQUENCY (MHZ)	**POWER SETTING**	**FREQUENCY (MHZ)**	**POWER SETTING**	**FREQUENCY (MHZ)**	**POWER SETTING**	**FREQUENCY (MHZ)**	**POWER SETTING**	**FREQUENCY (MHZ)**	**POWER SETTING**
2412	10	**2412**	6	**2412**	6	**2412**	6	**2402**	default
2437	10	**2437**	6	**2437**	6	**2437**	6	**2440**	default
2462	10	**2462**	6	**2462**	6	**2462**	6	**2480**	default

2.4 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

EUT CONFIGURE MODE	APPLICABLE TEST ITEMS				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
A	√	√	√	√	2.4G WIFI Function
B	√	√	√	√	BT Function

Where **RE < 1G:** Radiated Emission below 1GHz **RE ≥ 1G:** Radiated Emission above 1GHz
PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

☒ The worst case was found when positioned on x axis for radiated emission. 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	1.0
B	BT-LE	0 to 39	0	DTS	GFSK	1.0

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

POWER LINE CONDUCTED EMISSION TEST:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.

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

EUT CONFIGURE MODE	TESTED CONDITION
--	WiFi (2.4G) + BT-LE Link

RADIATED EMISSION TEST (ABOVE 1 GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.

☒ The worst case was found when positioned on x axis for radiated emission. 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 PARAMETER
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
B	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps
B	BT-LE	0 to 39	0,19, 39	DTS	GFSK	2.0 Mbps

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, antenna ports (if EUT with antenna diversity architecture), and packet types.

☒ 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 PARAMETER
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0 Mbps
A	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0 Mbps
A	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
A	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
B	BT-LE	0 to 39	0,19, 39	DTS	GFSK	1.0 Mbps
B	BT-LE	0 to 39	0,19, 39	DTS	GFSK	2.0 Mbps

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	24.5deg. C, 55%RH	DC 15V 2A From Adapter	Liu Yuan
RE≥1G	24.5deg. C, 55%RH	DC 15V 2A From Adapter	Liu Yuan
PLC	25.2deg. C, 53%RH	DC 15V 2A From Adapter	Zhou Ye
APCM	24.2deg. C, 57%RH	DC 15V 2A From Adapter	Zhu Yulin

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product, according to the specifications of the manufacturers. 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 C63.10-2020

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

2.6 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.

Support Equipment					
NO	Description	Brand	Model No.	Serial Number	Supplied by
1	Laptop	HP	Notebook 14	N/A	LAB
2	adapter	anker	A2669	N/A	LAB

Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 Limit

Frequency (MHz)	Conducted Limits(dBμV)	
	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. NOTE: 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.		

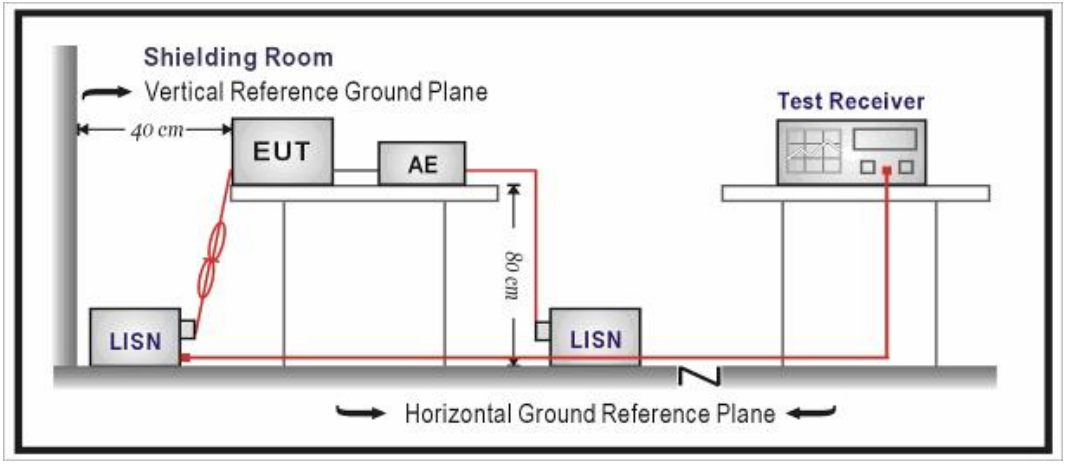
3.1.2 Measurement procedure

a. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the Test photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.The equipment under test shall be placed on a support of non-metallic material, the height of which shall be1.5m above the ground,

b. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

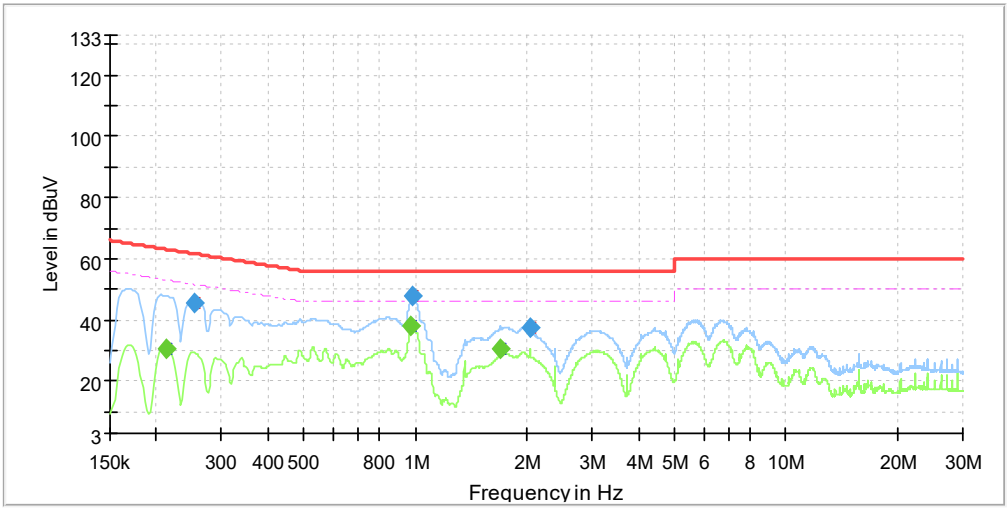
c. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

3.1.3 Test setup



3.1.4 Test results

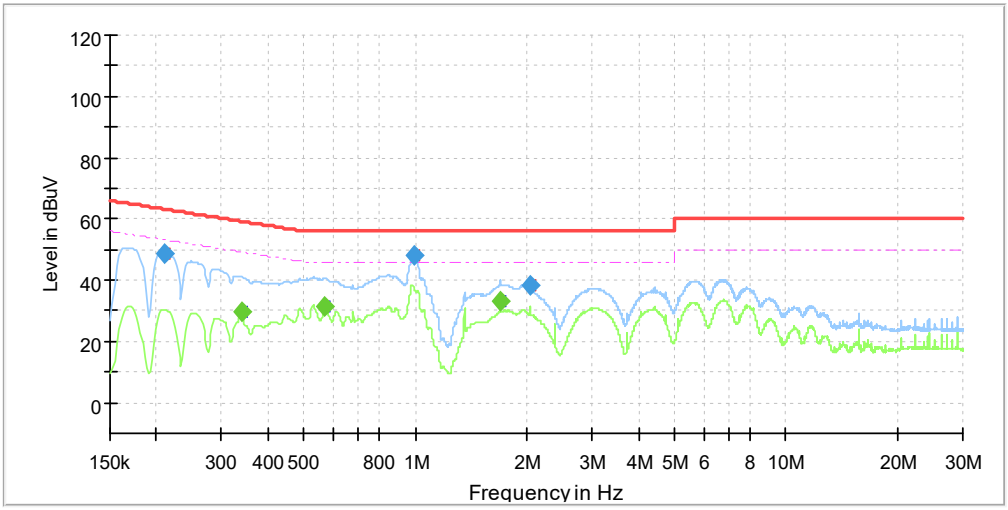
Test Mode	BLE Link	Frequency Range	150kHz ~ 30MHz
PHASE	Line (L)		



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.213	---	30.5	53.1	22.6	L1	20.1
2	0.254	45.6	---	61.6	16.0	L1	20.1
3	0.974	---	37.9	46.0	8.1	L1	20.1
4	0.985	47.9	---	56.0	8.1	L1	20.1
5	1.698	---	30.7	46.0	15.3	L1	20.1
6	2.038	37.4	---	56.0	18.6	L1	20.2

Remark: The emission levels of other frequencies were very low against the limit.

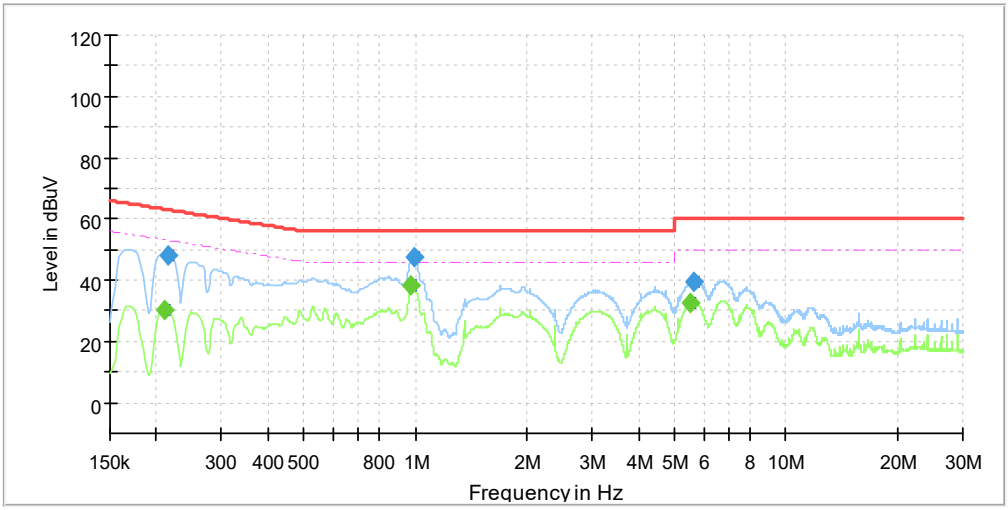
Test Mode	BLE Link	Frequency Range	150kHz ~ 30MHz
PHASE	Line (N)		



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.211	48.4	---	63.2	14.7	N	20.1
2	0.339	---	29.9	49.2	19.3	N	20.1
3	0.571	---	31.2	46.0	14.8	N	20.1
4	**0.989**	**48.0**	**---**	**56.0**	**8.0**	**N**	**20.1**
5	1.698	---	33.1	46.0	12.9	N	20.1
6	2.036	38.2	---	56.0	17.8	N	20.1

Remark: The emission levels of other frequencies were very low against the limit.

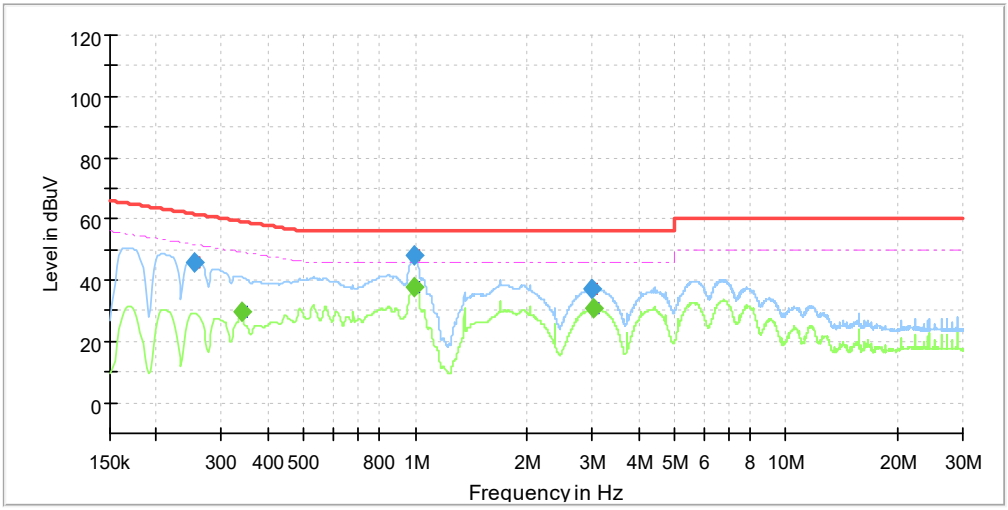
Test Mode	2.4G WiFi Link	Frequency Range	150KHz ~ 30MHz
PHASE	Line (L)		



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.211	---	30.6	53.2	22.6	L1	20.1
2	0.215	47.8	---	63.0	15.2	L1	20.1
3	0.976	---	38.1	46.0	7.9	L1	20.1
4	0.989	47.8	---	56.0	8.2	L1	20.1
5	5.546	---	32.4	50.0	17.6	L1	20.2
6	5.667	39.6	---	60.0	20.4	L1	20.2

Remark: The emission levels of other frequencies were very low against the limit.

Test Mode	2.4G WiFi Link	Frequency Range	150KHz ~ 30MHz
PHASE	Line (N)		



NO	Frequency (MHz)	QuasiPeak (dBuV)	Average (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr.Factor (dB)
1	0.254	45.9	---	61.6	15.7	N	20.1
2	0.339	---	29.9	49.2	19.3	N	20.1
3	0.989	---	37.9	46.0	8.1	N	20.1
4	0.989	48.0	---	56.0	8.0	N	20.1
5	3.005	37.2	---	56.0	18.8	N	20.9
6	3.019	---	30.7	46.0	15.3	N	20.9

Remark: The emission levels of other frequencies were very low against the limit.

3.2 RADIATED EMISSION AND RESTRICTED BANDS MEASUREMENTS

3.2.1 Limit

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.
NOTE: 2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
NOTE: 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.

3.2.2 Measurement procedure

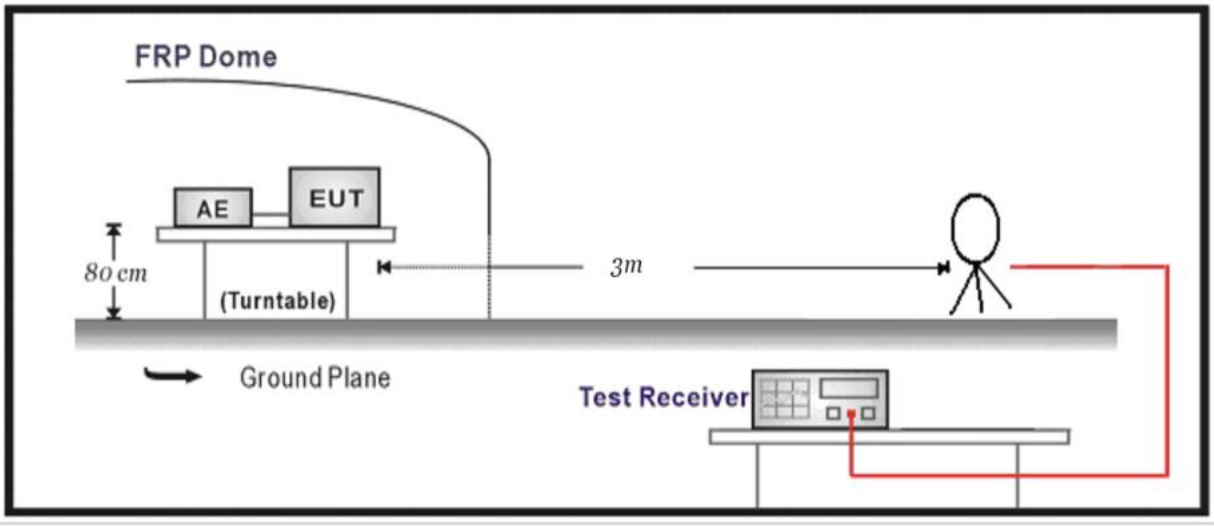
a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

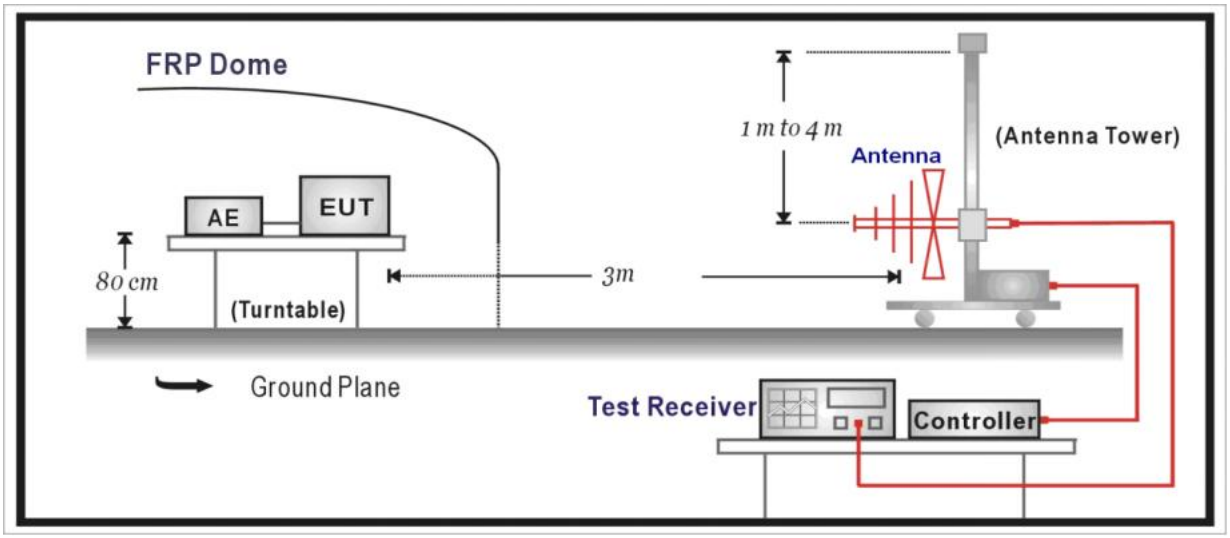
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution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

3.2.3 Test setup

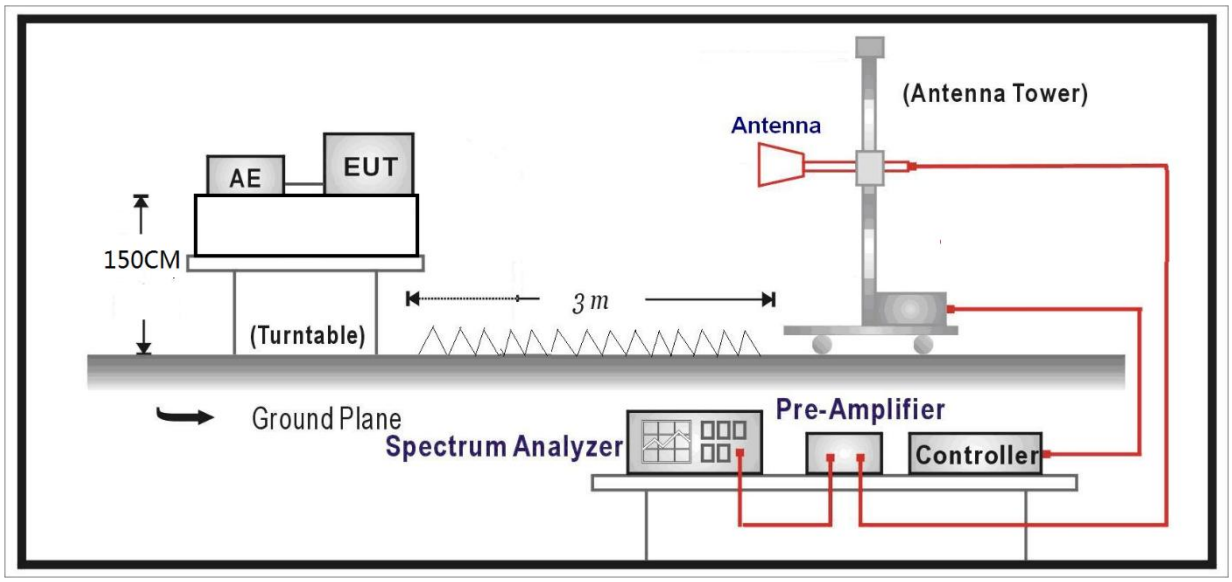
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:

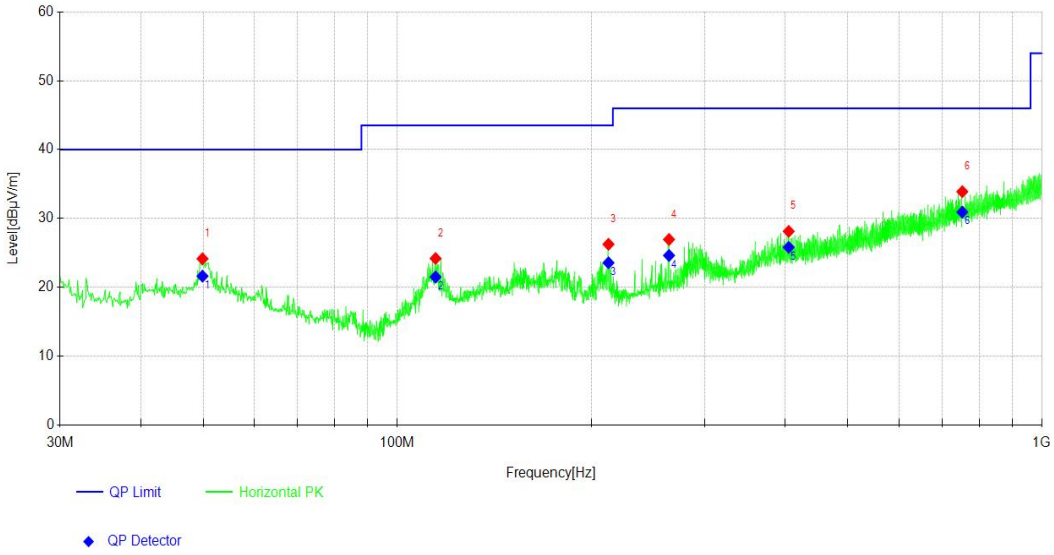


3.2.4 Test results

BELOW 1GHz WORST-CASE DATA

Worst Test Mode	BLE 1M	Channel	CH 0
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Horizontal

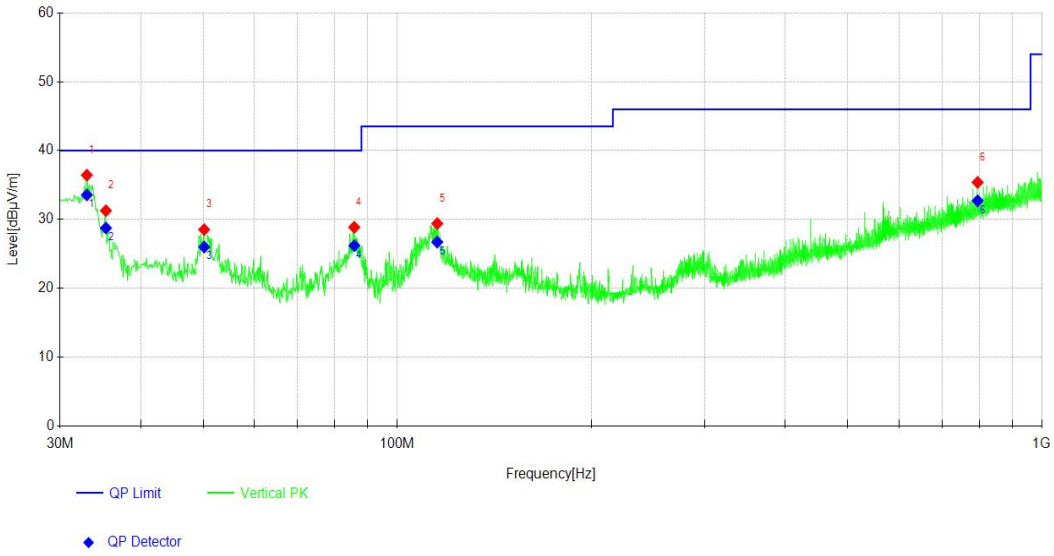


NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.887	20.27	21.62	40.00	18.38	100	231	Horizontal
2	114.689	17.50	21.49	43.50	22.01	100	282	Horizontal
3	212.669	17.26	23.56	43.50	19.94	100	243	Horizontal
4	263.987	19.44	24.62	46.00	21.38	100	106	Horizontal
5	404.845	23.24	25.80	46.00	20.20	100	320	Horizontal
6	752.528	29.82	30.92	46.00	15.08	100	170	Horizontal

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Worst Test Mode	BLE 1M	Channel	CH 0
Frequency Range	9KHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Vertical

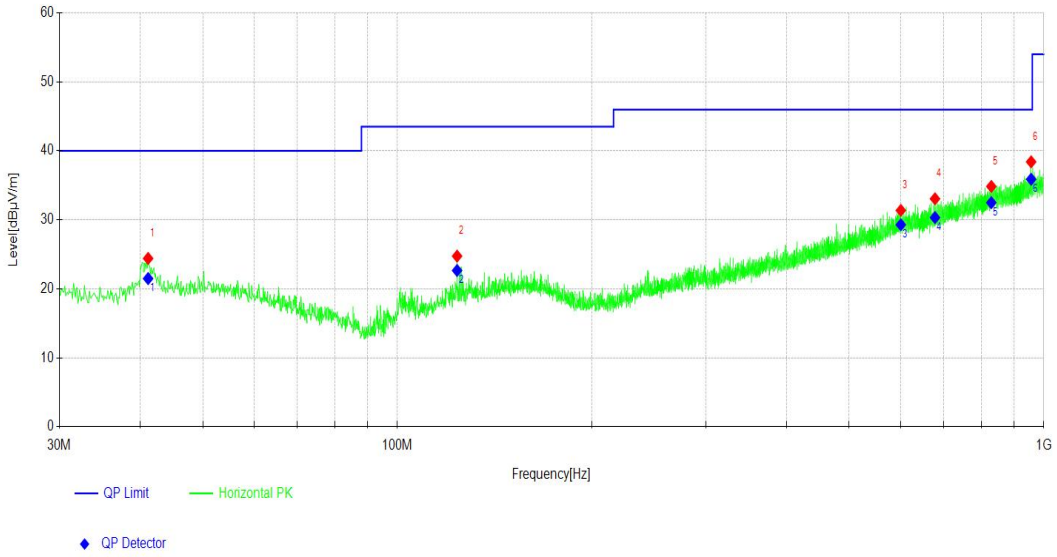


NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	33.007	18.63	33.56	40.00	6.44	100	268	Vertical
2	35.336	18.86	28.75	40.00	11.25	100	299	Vertical
3	50.178	20.26	26.00	40.00	14.00	100	128	Vertical
4	85.781	14.34	26.19	40.00	13.81	100	315	Vertical
5	115.369	17.61	26.72	43.50	16.78	100	2	Vertical
6	794.824	30.23	32.71	46.00	13.29	100	10	Vertical

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Worst Test Mode	**802.11b**	**Channel**	CH 1
Frequency Range	9KHz ~ 1GHz	**Detector Function**	Quasi-Peak (QP)

Horizontal

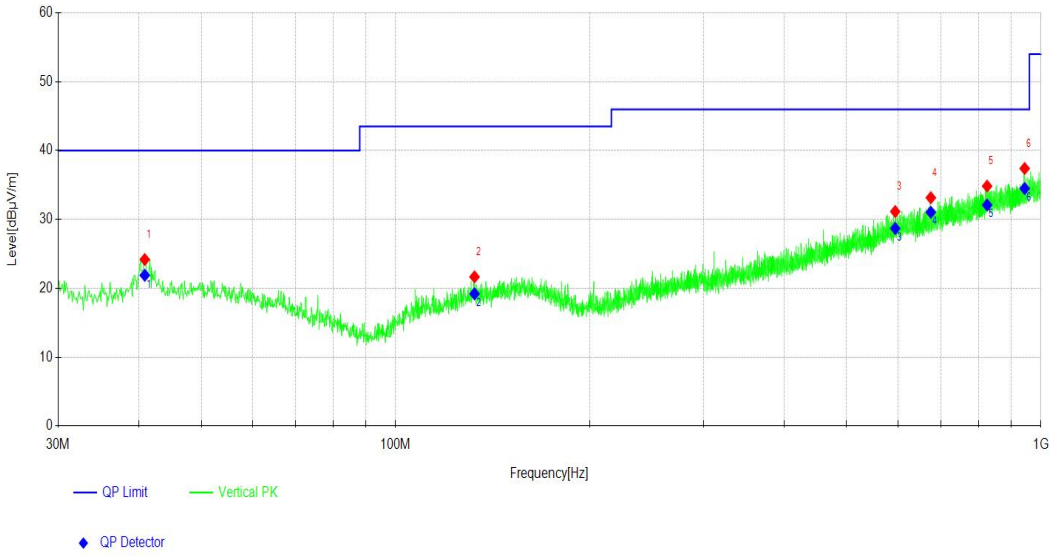


NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	41.156	4.84	19.57	24.41	40.00	15.59	200	359
2	123.711	6.26	18.48	24.74	43.50	18.76	200	355
3	600.902	3.80	27.57	31.37	46.00	14.63	100	268
4	678.704	4.71	28.34	33.05	46.00	12.95	200	2
5	829.457	3.99	30.86	34.85	46.00	11.15	200	357
6	955.861	6.12	32.29	38.41	46.00	7.59	200	2

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Worst Test Mode	**802.11b**	**Channel**	CH 1
Frequency Range	9KHz ~ 1GHz	**Detector Function**	Quasi-Peak (QP)

Vertical



NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]
1	40.865	4.67	19.51	24.18	40.00	15.82	100	179
2	132.539	2.50	19.16	21.66	43.50	21.84	100	192
3	594.596	3.84	27.31	31.15	46.00	14.85	100	179
4	675.115	4.97	28.18	33.15	46.00	12.85	100	222
5	825.383	4.06	30.78	34.84	46.00	11.16	100	101
6	943.637	5.32	32.08	37.40	46.00	8.60	100	110

Remark: 1. 9KHz~30MHz have been test and test data more than 20dB margin.
2. The emission levels of other frequencies were greater than 20dB margin.
3. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
4. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
5. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

ABOVE 1GHz DATA

All modes have been tested, and the worst-case was recorded in this report.

Channel	**802.11b CH 1**	**Frequency**	2412MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2367.82	43.78	-1.45	42.33	54.00	11.67	AV
2	2376.63	53.14	-1.53	51.61	74.00	22.39	PK
3	2390.00	51.70	-1.37	50.33	74.00	23.67	PK
4	2390.00	43.66	-1.37	42.29	54.00	11.71	AV
5	2412.85	107.01	-1.19	105.82			PK
6	2412.89	104.79	-1.19	103.60			AV
7	4824.00	44.41	9.58	53.99	74.00	20.01	PK
8	4824.00	36.92	9.58	46.50	54.00	7.50	AV
9	7236.00	20.90	13.96	34.86	54.00	19.14	AV
10	7236.00	28.28	13.96	42.24	74.00	31.76	PK
11	9648.00	27.93	14.33	42.26	74.00	31.74	PK
12	9648.00	20.36	14.33	34.69	54.00	19.31	AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2367.84	51.13	-1.45	49.68	74.00	24.32	PK
2	2385.64	41.11	-1.44	39.67	54.00	14.33	AV
3	2390.00	39.17	-1.37	37.80	54.00	16.20	AV
4	2390.00	47.96	-1.37	46.59	74.00	27.41	PK
5	2412.89	93.92	-1.19	92.73			PK
6	2412.90	91.77	-1.19	90.58			AV
7	4824.00	45.00	9.58	54.58	74.00	19.42	PK
8	4824.00	37.88	9.58	47.46	54.00	6.54	AV
9	7236.00	29.80	13.96	43.76	74.00	30.24	PK
10	7236.00	22.40	13.96	36.36	54.00	17.64	AV
11	9648.00	27.57	14.33	41.90	74.00	32.10	PK
12	9648.00	20.28	14.33	34.61	54.00	19.39	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m].

Channel	**802.11b CH 6**	**Frequency**	2437MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	4874.00	42.72	9.66	52.38	74.00	21.62	PK
2	4874.00	36.96	9.66	46.62	54.00	7.38	AV
3	7311.00	30.63	12.65	43.28	74.00	30.72	PK
4	7311.00	22.10	12.65	34.75	54.00	19.25	AV
5	9748.00	26.71	14.73	41.44	74.00	32.56	PK
6	9748.00	19.02	14.73	33.75	54.00	20.25	AV

Vertical

NO.	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector
1	4874.00	43.91	9.66	53.57	74.00	20.43	PK
2	4874.00	36.40	9.66	46.06	54.00	7.94	AV
3	7311.00	31.74	12.65	44.39	74.00	29.61	PK
4	7311.00	25.60	12.65	38.25	54.00	15.75	AV
5	9748.00	27.01	14.73	41.74	74.00	32.26	PK
6	9748.00	19.38	14.73	34.11	54.00	19.89	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBµV/m] - Level [dBµV/m]

Channel	802.11b CH 11	Frequency	2462MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2460.99	105.78	-1.14	104.64			AV
2	2461.10	107.69	-1.13	106.56			PK
3	2483.50	50.15	-1.15	49.00	74.00	25.00	PK
4	2483.50	42.77	-1.15	41.62	54.00	12.38	AV
5	2487.08	44.36	-0.98	43.38	54.00	10.62	AV
6	2487.76	52.46	-0.95	51.51	74.00	22.49	PK
7	4924.00	44.59	10.19	54.78	74.00	19.22	PK
8	4924.00	38.08	10.19	48.27	54.00	5.73	AV
9	7386.00	22.94	11.57	34.51	54.00	19.49	AV
10	7386.00	29.56	11.57	41.13	74.00	32.87	PK
11	9848.00	28.08	14.74	42.82	74.00	31.18	PK
12	9848.00	19.78	14.74	34.52	54.00	19.48	AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2460.94	90.05	-1.14	88.91			AV
2	2461.05	91.99	-1.14	90.85			PK
3	2483.50	36.69	-1.15	35.54	54.00	18.46	AV
4	2483.50	44.75	-1.15	43.60	74.00	30.40	PK
5	2493.71	47.39	-0.91	46.48	74.00	27.52	PK
6	2494.56	38.05	-0.93	37.12	54.00	16.88	AV
7	4924.00	42.23	10.19	52.42	74.00	21.58	PK
8	4924.00	36.46	10.19	46.65	54.00	7.35	AV
9	7386.00	27.00	11.57	38.57	54.00	15.43	AV
10	7386.00	32.72	11.57	44.29	74.00	29.71	PK
11	9848.00	27.69	14.74	42.43	74.00	31.57	PK
12	9848.00	19.45	14.74	34.19	54.00	19.81	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

All modes have been tested, and the worst-case was recorded in this report.

Channel	**BT-LE(1Mbps) CH0**	**Frequency**	2402MHz
Frequency Range	Above 1G	**Detector Function**	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2387.64	40.75	-1.40	39.35	54.00	14.65	AV
2	2388.90	51.05	-1.38	49.67	74.00	24.33	PK
3	2390.00	39.48	-1.37	38.11	54.00	15.89	AV
4	2390.00	49.71	-1.37	48.34	74.00	25.66	PK
5	2401.87	111.28	-1.26	110.02			AV
6	2402.24	111.98	-1.25	110.73			PK
7	4804.00	42.11	9.19	51.30	74.00	22.70	PK
8	4804.00	34.41	9.19	43.60	54.00	10.40	AV
9	7206.00	27.37	14.32	41.69	74.00	32.31	PK
10	7206.00	20.26	14.32	34.58	54.00	19.42	AV
11	9608.00	28.11	14.44	42.55	74.00	31.45	PK
12	9608.00	20.30	14.44	34.74	54.00	19.26	AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2382.05	40.88	-1.50	39.38	54.00	14.62	AV
2	2388.18	50.89	-1.39	49.50	74.00	24.50	PK
3	2390.00	48.42	-1.37	47.05	74.00	26.95	PK
4	2390.00	39.14	-1.37	37.77	54.00	16.23	AV
5	2401.74	97.23	-1.26	95.97			PK
6	2401.91	96.57	-1.26	95.31			AV
7	4804.00	43.11	9.19	52.30	74.00	21.70	PK
8	4804.00	34.49	9.19	43.68	54.00	10.32	AV
9	7206.00	23.21	14.32	37.53	54.00	16.47	AV
10	7206.00	29.93	14.32	44.25	74.00	29.75	PK
11	9608.00	28.65	14.44	43.09	74.00	30.91	PK
12	9608.00	21.03	14.44	35.47	54.00	18.53	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	BT-LE(1Mbps) CH19	Frequency	2440MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4880.00	41.36	9.75	51.11	74.00	22.89	PK
2	4880.00	34.06	9.75	43.81	54.00	10.19	AV
3	7320.00	29.81	12.66	42.47	74.00	31.53	PK
4	7320.00	22.25	12.66	34.91	54.00	19.09	AV
5	9760.00	26.77	14.77	41.54	74.00	32.46	PK
6	9760.00	19.56	14.77	34.33	54.00	19.67	AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4880.00	42.38	9.75	52.13	74.00	21.87	PK
2	4880.00	34.49	9.75	44.24	54.00	9.76	AV
3	7320.00	35.64	12.66	48.30	74.00	25.70	PK
4	7320.00	29.29	12.66	41.95	54.00	12.05	AV
5	9760.00	28.69	14.77	43.46	74.00	30.54	PK
6	9760.00	20.34	14.77	35.11	54.00	18.89	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	BT-LE(1Mbps) CH39	Frequency	2480MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2479.74	111.79	-1.30	110.49			PK
2	2479.80	111.24	-1.30	109.94			AV
3	2483.50	42.30	-1.15	41.15	54.00	12.85	AV
4	2483.50	51.36	-1.15	50.21	74.00	23.79	PK
5	2484.22	51.52	-1.11	50.41	74.00	23.59	PK
6	2484.32	42.85	-1.10	41.75	54.00	12.25	AV
7	4960.00	42.75	10.78	53.53	74.00	20.47	PK
8	4960.00	34.08	10.78	44.86	54.00	9.14	AV
9	7440.00	29.73	11.55	41.28	74.00	32.72	PK
10	7440.00	21.85	11.55	33.40	54.00	20.60	AV
11	9920.00	27.55	15.37	42.92	74.00	31.08	PK
12	9920.00	19.85	15.37	35.22	54.00	18.78	AV

Vertical

NO.	Freq. [MHz]	Reading [dBμV/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	2479.76	90.04	-1.30	88.74			PK
2	2479.85	89.25	-1.30	87.95			AV
3	2483.50	45.21	-1.15	44.06	74.00	29.94	PK
4	2483.50	37.11	-1.15	35.96	54.00	18.04	AV
5	2487.14	38.15	-0.98	37.17	54.00	16.83	AV
6	2494.05	47.75	-0.92	46.83	74.00	27.17	PK
7	4960.00	43.29	10.78	54.07	74.00	19.93	PK
8	4960.00	34.35	10.78	45.13	54.00	8.87	AV
9	7440.00	26.23	11.55	37.78	54.00	16.22	AV
10	7440.00	35.11	11.55	46.66	74.00	27.34	PK
11	9920.00	27.52	15.37	42.89	74.00	31.11	PK
12	9920.00	20.45	15.37	35.82	54.00	18.18	AV

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.
2. Level (dBuV/m) = Reading (dBuV/m) + Factor (dB).
3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

3.3 6dB BANDWIDTH MEASUREMENT

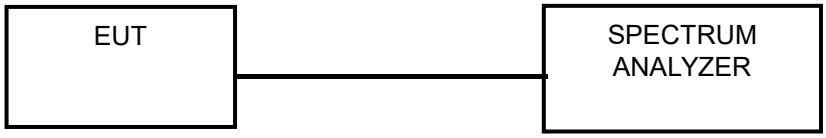
3.3.1 Limits

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

3.3.2 Measurement procedure

a. Set resolution bandwidth (RBW) = 1% to 5% of the OBW but not less than 100 kHz.
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies as sociated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.3 Test setup



3.4 CONDUCTED OUTPUT POWER

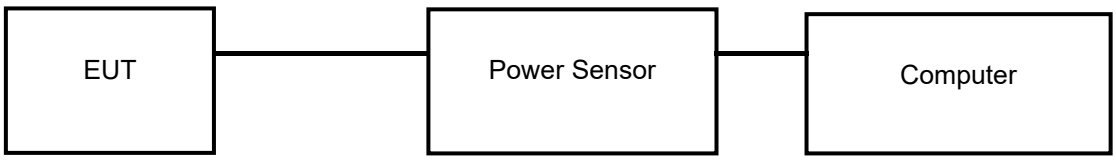
3.4.1 Limits

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

3.4.2 Measurement procedure

a. 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.
b. 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.

3.4.3 Test setup



3.5 POWER SPECTRAL DENSITY MEASUREMENT

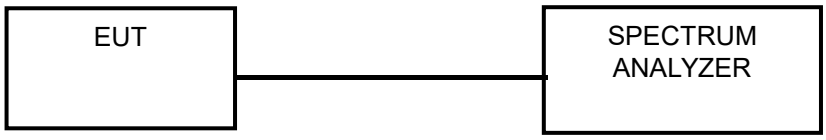
3.5.1 Limits

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

3.5.2 Measurement 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 ≥3 x RBW.
e. Detector = peak
f. Ensure that the number of measurement points in the sweep ≥ 2 x span/RBW.
g. Sweep time = auto couple.
h. Use the peak marker function to determine the maximum amplitude level.

3.5.3 Test setup



3.6 OUT OF BAND EMISSION AND BAND EDGE MEASUREMENTS

3.6.1 Limits

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

3.6.2 Measurement procedure

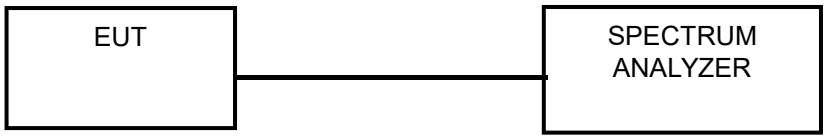
Measurement Procedure -Reference Level

a. Set the RBW = 100 kHz.
b. Set the VBW ≥ 300 kHz.
c. Detector = peak.
d. Sweep time = auto couple.
e. Trace mode = max hold.
f. Allow trace to fully stabilize.
g. Use the peak marker function to determine the maximum power level in any 100 kHzband segment within the fundamental EBW.

Measurement Procedure –Unwanted Emission Level

a. Set RBW = 100 kHz.
b. Set VBW ≥ 300 kHz.
c. Set span to encompass the spectrum to be examined
d. Detector = peak.
e. Trace Mode = max hold.
f. Sweep = auto couple.

3.6.3 Test setup

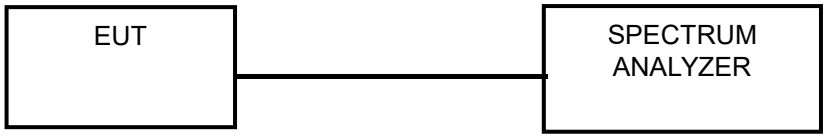


3.7 OCCUPIED BANDWIDTH MEASUREMENT

3.7.1 Measurement procedure

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.
below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

3.7.2 Test setup



3.8 ANTENNA REQUIREMENT

3.8.1 LIMITS OF ANTENNA REQUIREMENT

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b) , if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.8.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product is FPC Antenna, that no antenna other than that furnished by the responsible party shall be used with the device.

3.8.3 ANTENNA GAIN

Operation Band	Chain 1 Antenna Gain(dBi)	Chain 2 Antenna Gain(dBi)	DG For PSD (dBi)	DG For Power (dBi)	PSD Limit Reduction	Power Limit Reduction
WiFi 2.4G	2.90	/	2.90	2.90	0	0
BLE	/	2.90	2.90	2.90	0	0

4 PHOTOGRAPHS OF TEST SETUP

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

5 PHOTOGRAPHS OF THE EUT

Please refer to the attached file (External Photos report and Internal Photos).

------ End of the Report ------

Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of tester, reviewer and approval;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days;

(6) Generally, commission test results apply to the samples as received. The sample information is provided by the customer and laboratory is not responsible for its authenticity;

(7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

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