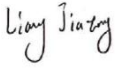


Test Report No.:
FCCSZ2023-0022-RF3

RF Test Report

FCC ID : 2BEA6AP6275
IC : 31870-AP6275
EUT : Module
MODEL : VT-MOB-6275-AX
BRAND NAME : N/A
APPLICANT : Vantron Technology, Inc.
Classification of Test : N/A

CVC Testing Technology (Shenzhen) Co., Ltd.

Applicant		Name: Vantron Technology, Inc. Address: 48434 Milmont Drive Fremont, CA 94538-7324, USA	
Manufacturer		Name: Vantron Technology, Inc. Address: 48434 Milmont Drive Fremont, CA 94538-7324, USA	
Equipment Under Test		Product Name: Module Model/Type: VT-MOB-6275-AX Brand Name: N/A Serial NO.: N/A Sample NO.: 3-1	
Date of Receipt.	2023.12.07	Date of Testing	2023.12.07~2024.03.28
Test Specification		Test Result	
FCC Part 15, Subpart E (15.407) Canada RSS-247 Issue 3 (2023-08) Canada RSS-Gen Issue 5+A1+A2 (2021-02)		PASS	
Evaluation of Test Result	The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date:2024.03.29		
Tested by:  <u>Liang Jiatong</u> Name Signature	Tested by:  <u>Huang Meng</u> Name Signature	Approved by:  <u>Dong Sanbi</u> Name Signature	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2023-0022-RF3	Original release	2024.03.29

1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPARTE (SECTION 15.407)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
FCC 15.207 RSS-Gen 8.8	AC Power Conducted Emission	PASS	See section 3.1
FCC 15.403(a)(e) RSS-247 6.2.1.(2) RSS-247 6.2.4.(2)	6dB&26dB Emission Bandwidth	PASS	Appendix A1&A3 of FCCSZ2023-0022-RF3-A1
RSS-Gen 6.7	Occupied Bandwidth Measurement	PASS	Appendix A2 of FCCSZ2023-0022-RF3-A1
FCC 15.407(b) RSS-247 6.2.1 (2) RSS-247 6.2.4 (2)	Radiated Emission and Bandedge	PASS	See section 3.2
FCC 15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.4 (1)	Transmit Power	PASS	Appendix C of FCCSZ2023-0022-RF3-A1
FCC 15.407(a) RSS-247 6.2.1 (1) RSS-247 6.2.4 (1)	Power Spectral Density	PASS	Appendix D of FCCSZ2023-0022-RF3-A1
FCC 15.407(g) RSS-Gen 8.11 RSS-Gen 6.11	Frequency Stability	PASS	Appendix E of FCCSZ2023-0022-RF3-A1
FCC 15.203 FCC 15.407(a) RSS-Gen 6.8	Antenna Requirement	PASS	See section 3.9

1.1 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial Number	Cal. interval	Cal. Due
WIFI & Bluetooth Test System					/
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 30	104408	1 year	2024.5.21
#3Shielding room	MORI	443	N/A	3 year	2026.5.16
Wideband radio communication tester	Rohde&Schwarz	CMW 500	168778	1 year	2024.5.25
Analog signal Generator (100kHz ~ 40GHz)	Rohde&Schwarz	SMB 100A	181934	1 year	2024.5.21
Vector signal Generator (9kHz ~ 6GHz)	Keysight	N5182B	MY57301451	1 year	2024.4.25
Vector signal Generator (9kHz ~ 6GHz)	Rohde&Schwarz	SGT 100A	111724	1 year	2024.5.21
RF control unit(BT/WiFi)	Tonscend	JS0806-2-8CH	20E8060261	1 year	2024.5.21
Radiation Spurious(Above 1GHz)					/
Signal&Spectrum Analyzer	Rohde&Schwarz	FSV 40	101898	1 year	2024.5.21
EMI Test Receiver	Rohde&Schwarz	ESR3	102693	1 year	2024.5.25
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2024.2.21
Antenna(30MHz~1001MHz)	SCHWARZBECK	VULB 9168	1133	1 year	2025.2.21
Horn antenna(1GHz-18GHz)	ETS	3117	227611	1 year	2024.3.25
Horn antenna(18GHz-40GHz)	QMS	QMS-00880	22051	1 year	2024.3.25
3m anechoic chamber	MORI	966	CS0300011	3 year	2026.5.18
Filter group(RSE-BT/WiFi)	Rohde&Schwarz	WiFi /BT Variant 1	100820	1 year	2024.5.21
Filter group(RSE-Cellular)	Rohde&Schwarz	Cellular Variant 1	100768	1 year	2024.5.21
Preamplifier(10kHz-1GHz)	Rohde&Schwarz	SCU-01F	100299	1 year	2024.5.21
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100799	1 year	2024.5.21
Preamplifier(1GHz-18GHz)	Rohde&Schwarz	SCU-18F	100801	1 year	2024.5.21
Preamplifier(18Gz-40GHz)	Rohde&Schwarz	SCU-40A	101209	1 year	2024.5.21
#2 control room	MORI	433	CS0300028	3 year	2024.5.21
Temperature and humidity meter	/	C193561517	C193561517	1 year	2024.5.21
Radiation Spurious(Below 1GHz)					/
EMI Test Receiver	Rohde&Schwarz	ESR 26	101718	1 year	2024.5.25
Loop antenna (8.3k~30MHz)	Rohde&Schwarz	HFH2-Z2E	100951	1 year	2024.5.26
Antenna(30MHz~1000MHz)	SCHWARZBECK	VULB 9168	1132	1 year	2024.2.14
3m anechoic chamber	MORI	966	CS0200019	3 year	2026.5.18
Attenuator	/	SJ-5dB	607684	1 year	2024.2.21
#1 control room	MORI	433	CS0300028	3 year	2026.5.16
Temperature and humidity meter	/	C193561473	CS0200071	1 year	2024.5.21
Conducted emission					/
EMI Test Receiver	Rohde&Schwarz	ESR3	102694	1 year	2024.5.25
limiter (10 dB)	Rohde&Schwarz	ESH3-Z2	102824	1 year	2024.5.16
Voltage probe	Rohde&Schwarz	CVP9222C	28	1 year	2024.5.16
Current probe	Rohde&Schwarz	EZ-17	101442	1 year	2024.5.21
ISN network	Rohde&Schwarz	ENV 81	100401	1 year	2024.5.16
ISN network	Rohde&Schwarz	ENV 81 Cat6	101896	1 year	2024.5.16
LISN (single-phase)	Rohde&Schwarz	ENV216	102569	1 year	2024.4.11
#1Shielding room	MORI	854	N/A	3 year	2026.5.16

1.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

No.	Item	Measurement Uncertainty
1	Conducted emission test	+/-2.7 dB
2	Radiated emission 9kHz-30MHz	+/-5.6 dB
3	Radiated emission 30MHz-1GHz	+/-4.6 dB
4	Radiated emission 1GHz-18GHz	+/-4.4 dB
5	Radiated emission 18GHz-40GHz	+/-5.1 dB
6	RF power	+/-0.9 dB
7	Power Spectral Density	+/-0.8 dB
8	Conducted spurious emissions	+/-2.7 dB
9	Transmission Time	+/-0.27%
10	Occupied Bandwidth	+/-1.86%
Remark: 95% Confidence Levels, k=2.		

1.3 TEST LOCATION

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

Lab Address: No. 1301, Guanguang Road, Xinlan Community, Guanlan Street, Longhua District, Shenzhen City, Guangdong Province 518110 P.R.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)

2 GENERAL INFORMATION

2.1 GENERAL PRODUCT INFORMATION

PRODUCT	Module		
BRAND	N/A		
TEST MODEL	VT-MOB-6275-AX		
ADDITIONAL MODEL	N/A		
POWER SUPPLY	DC 3.3V		
MODULATION TECHNOLOGY	OFDM,OFDMA		
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 16QAM, QPSK, BPSK for OFDMA		
TRANSFER RATE	802.11a: up to 54Mbps, 802.11n: up to 300Mbps, 802.11ac: up to 866.7Mbps, 802.11ax: up to 2401.9Mbps		
OPERATING FREQUENCY AND MAXIMUM POWER	Frequency	MAX output power(dBm)	MAX.EIPR(dBm)
	5180 ~ 5240MHz	15.40	17.50
	5745 ~ 5825MHz	17.86	22.06
NUMBER OF CHANNEL	See item 2.3		
ANTENNA TYPE(NOTE 4)	PCB Antenna1		PCB Antenna2
	2.10dBi for 5180 ~ 5240MHz		2.10dBi for 5180 ~ 5240MHz
	4.20dBi for 5745 ~ 5825MHz		4.20dBi for 5745 ~ 5825MHz
HVIN	VT-MOB-6275-AX		
FIX FREQUENCY SOFTWARE	SSH		
I/O PORTS	Refer to user’s manual		
CABLE SUPPLIED	N/A		

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- EUT photo refer to report (Report NO.: FCCSZ2023-0022-EUT).
- Since the above data and/or information is provided by the client, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- EUT provides 2 complete transmitter and 2 receiver.

MODULATION MODE	TX FUNCTION	Beamforming mode
802.11a	1TX(NSS1)	Not support
802. 11n	2TX(NSS1/NSS2)	support
802. 11ac	2TX(NSS1/NSS2)	support
802. 11ax	2TX(NSS1/NSS2)	support

2.2 CARRIER FREQUENCY AND CHANNEL

FOR 5180 ~ 5240MHz

8 channels are provided for 802.11a, 802.11n (HT20),802.11ac (VHT20),802.11ax (HE20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180MHz	40	5200MHz
44	5220 MHz	48	5240MHz

4 channels are provided for 802.11n (HT40),802.11ac (VHT40),802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190MHz	46	5230 MHz

1 channel are provided for 802.11ac (VHT80),802.11ax (HE80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	/	/

FOR 5745 ~ 5825MHz

5 channels are provided for 802.11a, 802.11n (20MHz),802.11ac (VHT20),802.11ax (HE20):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

2 channels are providedfor802.11n (HT40),802.11ac (VHT40),802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel are provided for 802.11ac (VHT80),802.11ax (HE80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5210MHz	/	/

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.

By means of test software which provided by manufacture, the power levels during the tests were set according to the following codes:

Operated in 5180 ~ 5240MHz band							
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80) 802.11ax (HE80)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
5180	15	5180	15	5190	15	5210	15
5200	15	5200	15	5230	15		
5240	15	5240	15				
Operated in 5745 ~ 5825MHz band							
802.11a		802.11n(HT20)		802.11n(HT40)		802.11ac (VHT80) 802.11ax (HE80)	
FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING	FREQUENCY (MHZ)	POWER SETTING
5745	15	5745	15	5755	15	5755	15
5785	15	5785	15	5795	15		
5825	15	5825	15				

2.3 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	Powered by host unit with wifi(5G) link

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

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-" means no effect.

The worst case Antenna mode for each of the following tests for Wi-Fi:

TEST CASES	ANTENNA 1	ANTENNA 2	MIMO/CDD	BEAMFORMING	PARTIAL RU
AC Power Conducted Emission	/	/	O	/	/
6dB&26dB Emission Bandwidth	O	O	/	/	/
Occupied Bandwidth Measurement	O	O	/	/	/
Radiated Emission and Band edge	/	/	O	/	O
Transmit Power	O	O	O	O	/
Power Spectral Density	O	O	O	/	O
Frequency Stability	O	O	/	/	/
RU Configure (OFDMA)	802.11ax20	802.11ax40	802.11ax80		
26 Tone RU Index 0	O	/	/		
26 Tone RU Index 8	O	/	/		
52 Tone RU Index 37	O	/	/		
52 Tone RU Index 40	O	/	/		
106 Tone RU Index 53	O	/	/		
106 Tone RU Index 54	O	/	/		
242 Tone RU Index 61	/	O	/		
242 Tone RU Index 62	/	O	/		
484 Tone RU Index 65	/	/	O		
484 Tone RU Index 66	/	/	O		
Full RU	O	O	O		

Note1: "O" mean test

Note2: Partial RU PSD < Full RU PSD, perform additional testing on Partial RU modes for band edge and spurious emissions

Note3: All the RU mode have been tested, only worst case are recorded

MODULATION	DATA RATE
802.11a	6Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20(Covered by HT20)	MCS0
802.11ac VHT40(Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	25deg. C, 54%RH	DC 3.3V from host unit	Zhou Ye
RE≥1G	25deg. C, 54%RH	DC 3.3V from host unit	Liu yuan
PLC	20deg. C, 56%RH	DC 3.3V from host unit	Zhou Ye
APCM	20deg. C, 55%RH	DC 3.3V from host unit	Liang Jiatong

2.4 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.

Support Equipment							
NO	Description	Brand	Model No.	Serial Number	Supplied by		
1	Laptop	Lenovo	K4e-ARE120	MP20kshe	Lab		
Support Cable							
NO	Description	Quantity (Number)	Length (cm)	Detachable (Yes/ No)	Shielded (Yes/ No)	Cores (Number)	Supplied by

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 E (15.407)

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

Canada RSS-247 Issue 3 (2023-08)

Canada RSS-Gen Issue 5+A1+A2 (2021-02)

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

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ 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.

3.1.1 TEST PROCEDURES

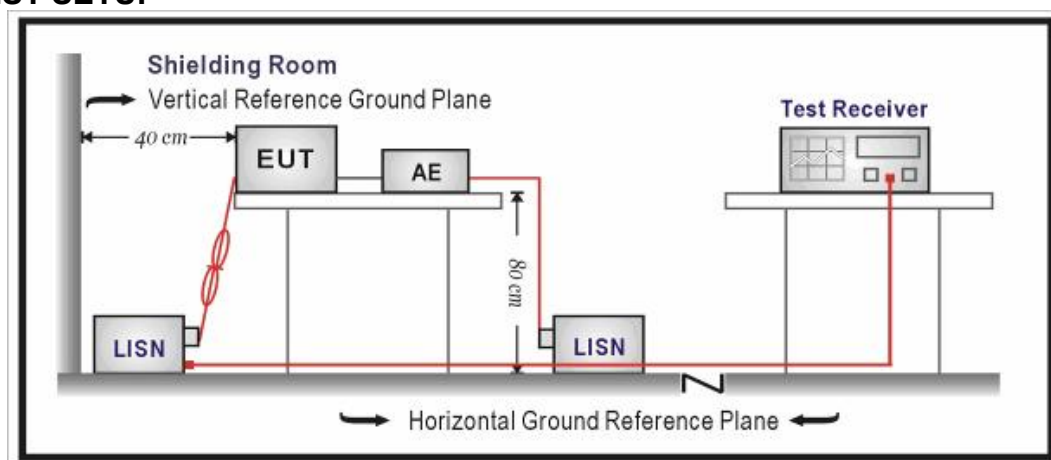
a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

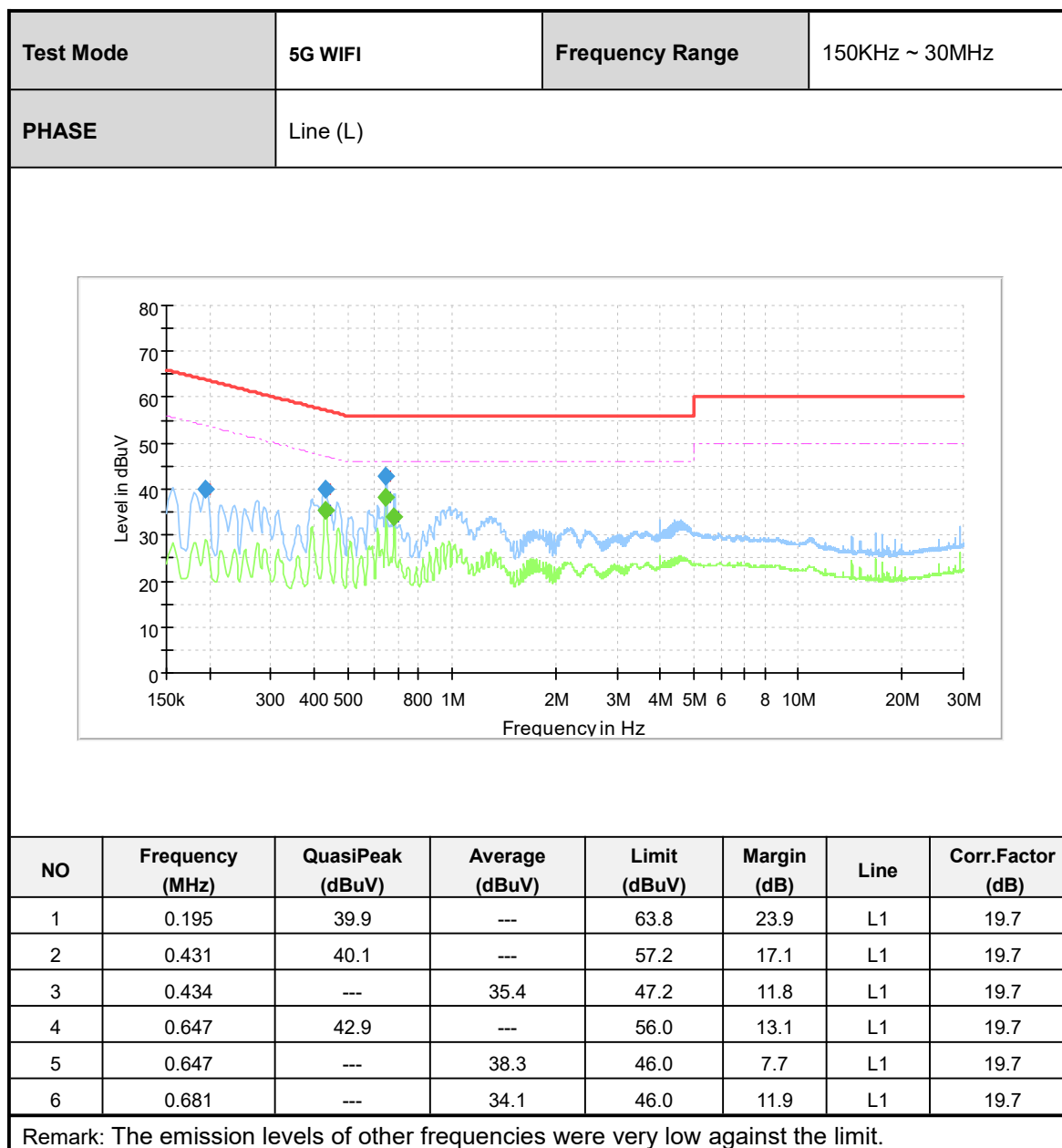
NOTE: All modes of operation were investigated and the worst-case emissions are reported.

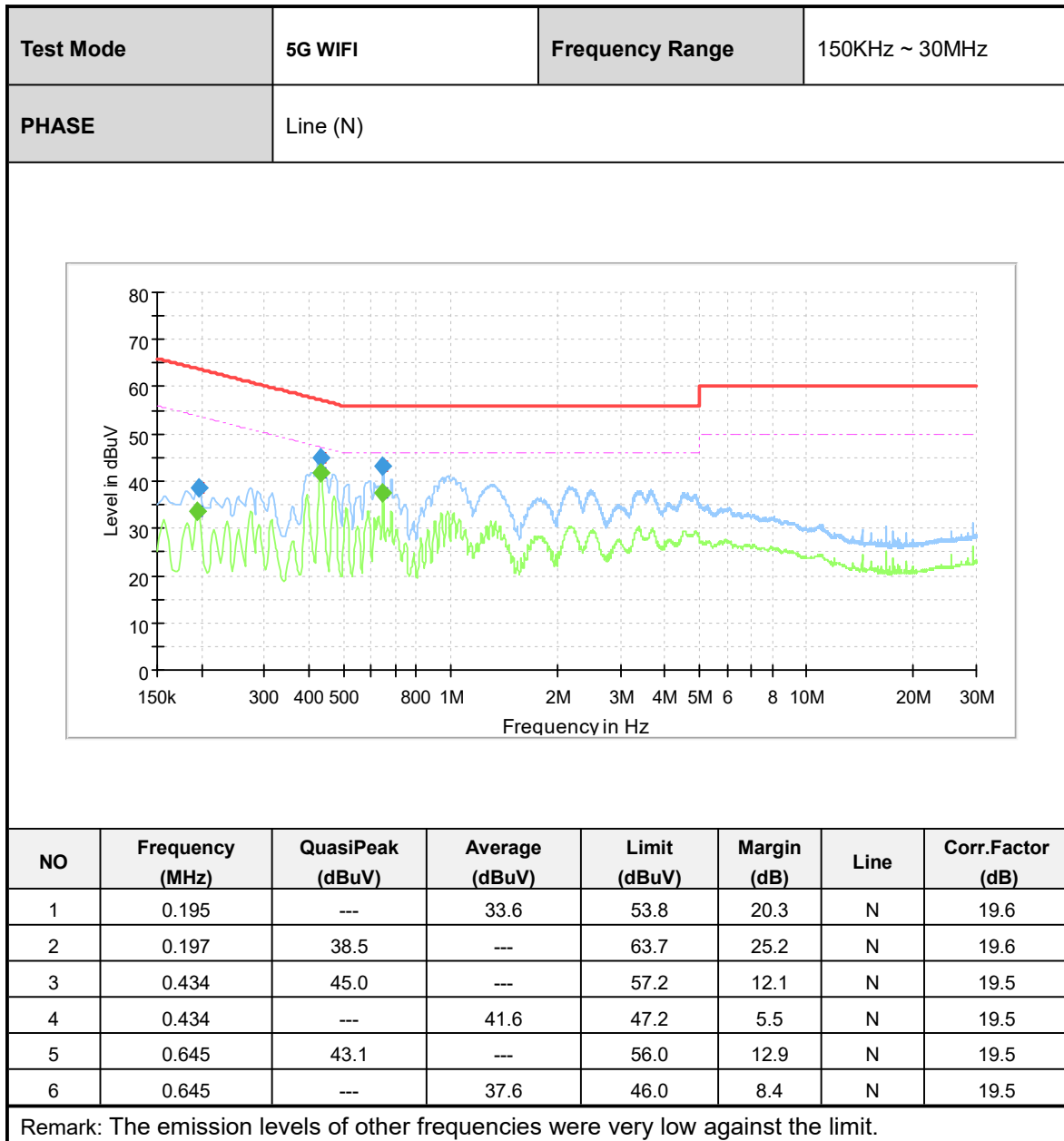
3.1.2 TEST SETUP



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

3.1.3 TEST RESULTS





3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE 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.
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.

Radiated emissions which fall in the restricted bands, as defined in RSS-Gen Section 8.10, must also comply with the radiated emission limits specified in RSS-Gen Section 8.9. as following:

Table 5 – General field strength limits at frequencies above 30 MHz		
FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

Table 6 – General field strength limits at frequencies below 30 MHz		
FREQUENCIES (MHz)	Magnetic field strength (H-Field) (μA/m)	MEASUREMENT DISTANCE (meters)
9 - 490 kHz	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

NOTE: 1.The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
NOTE: 2.The lower limit shall apply at the transition frequencies.
NOTE: 3.Emission level (dBuV/m) = 20 log Emission level (uV/m).
NOTE: 4.dBuV/m=dBuA/m+51.5

3.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO		LIMIT	
KDB 789033 D02 General UNII Test Procedures New Rules v02r01		FIELD STRENGTH AT 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Applicable	APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
√	15.407(b)(1) RSS-247 6.2.1 (2)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
	15.407(b)(2) RSS-247 6.2.2 (2)		
	15.407(b)(3) RSS-247 6.2.3 (2)		
√	15.407(b)(4) RSS-247 6.2.4 (2)	Note	Note

NOTE:

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts).}$$

3.2.3 TEST PROCEDURES

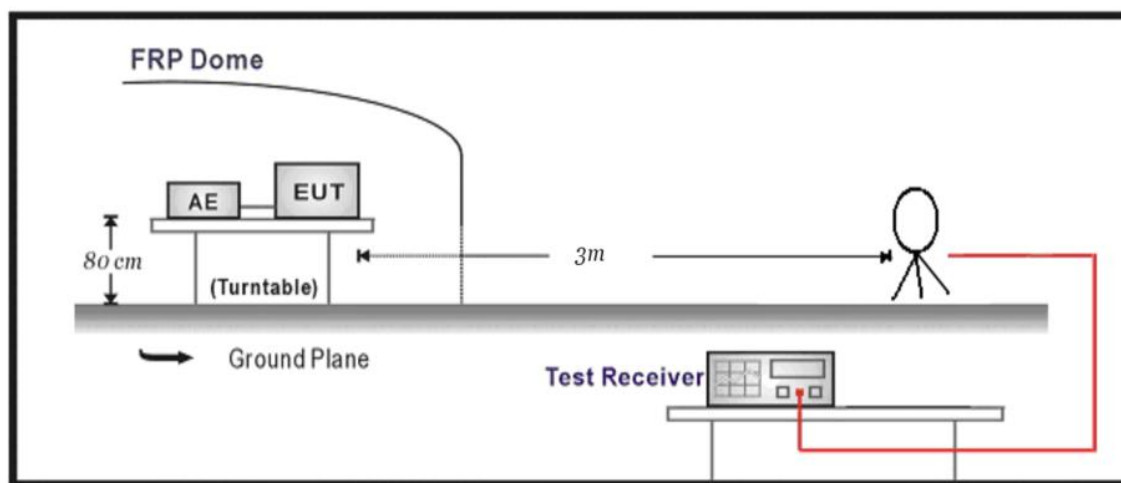
- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband 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. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE:

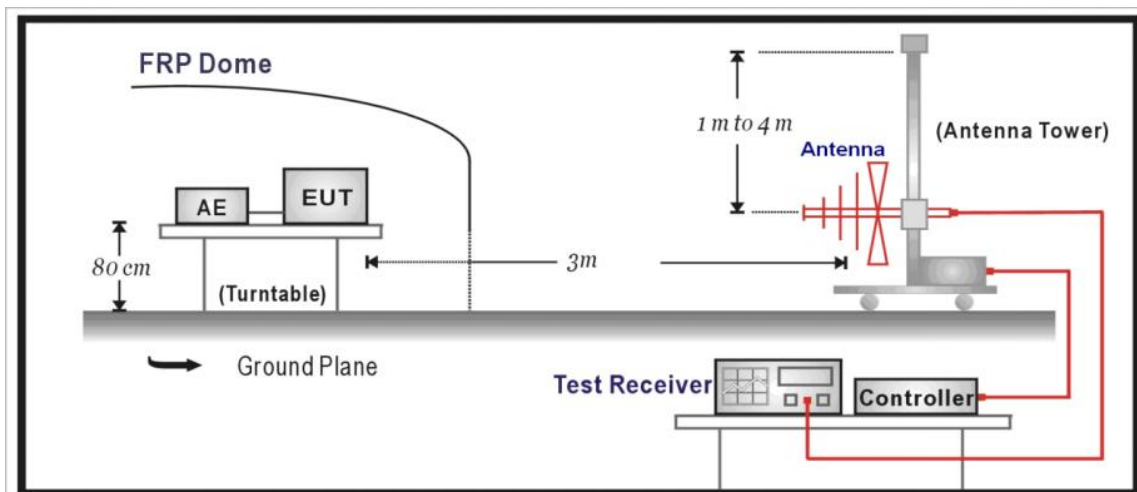
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution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

3.2.4 TEST SETUP

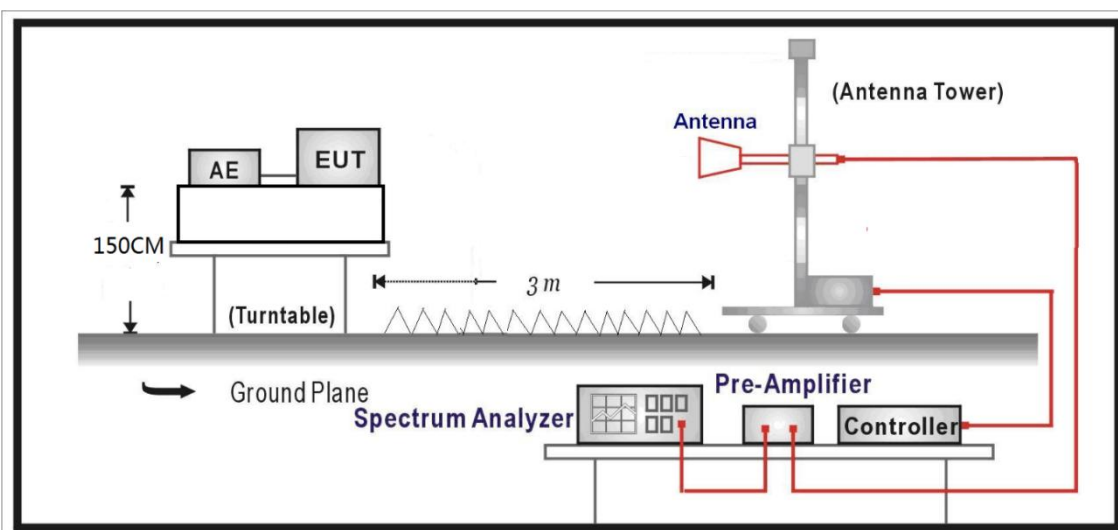
Below 30MHz Test Setup:



Below 1GHz Test Setup:

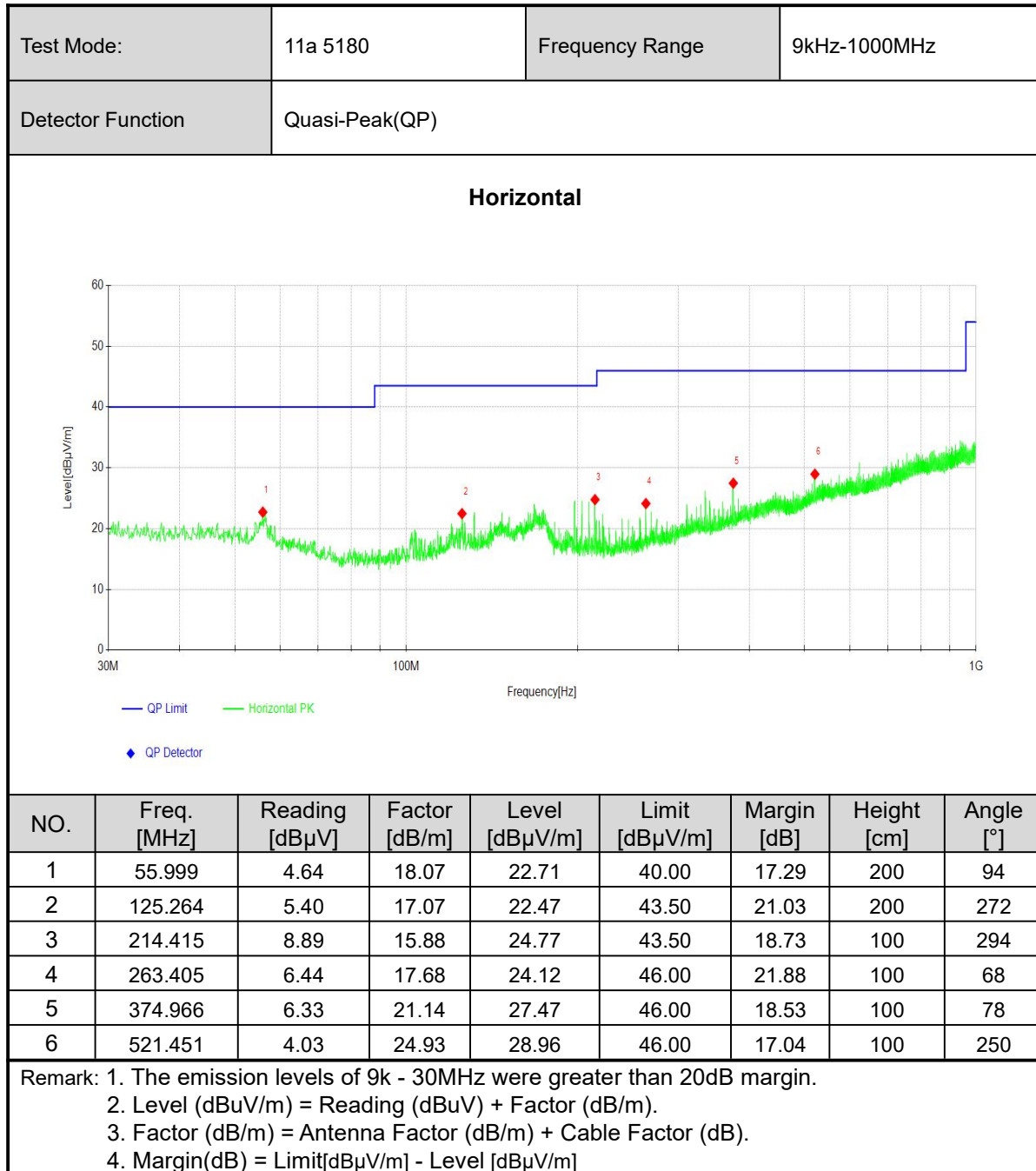


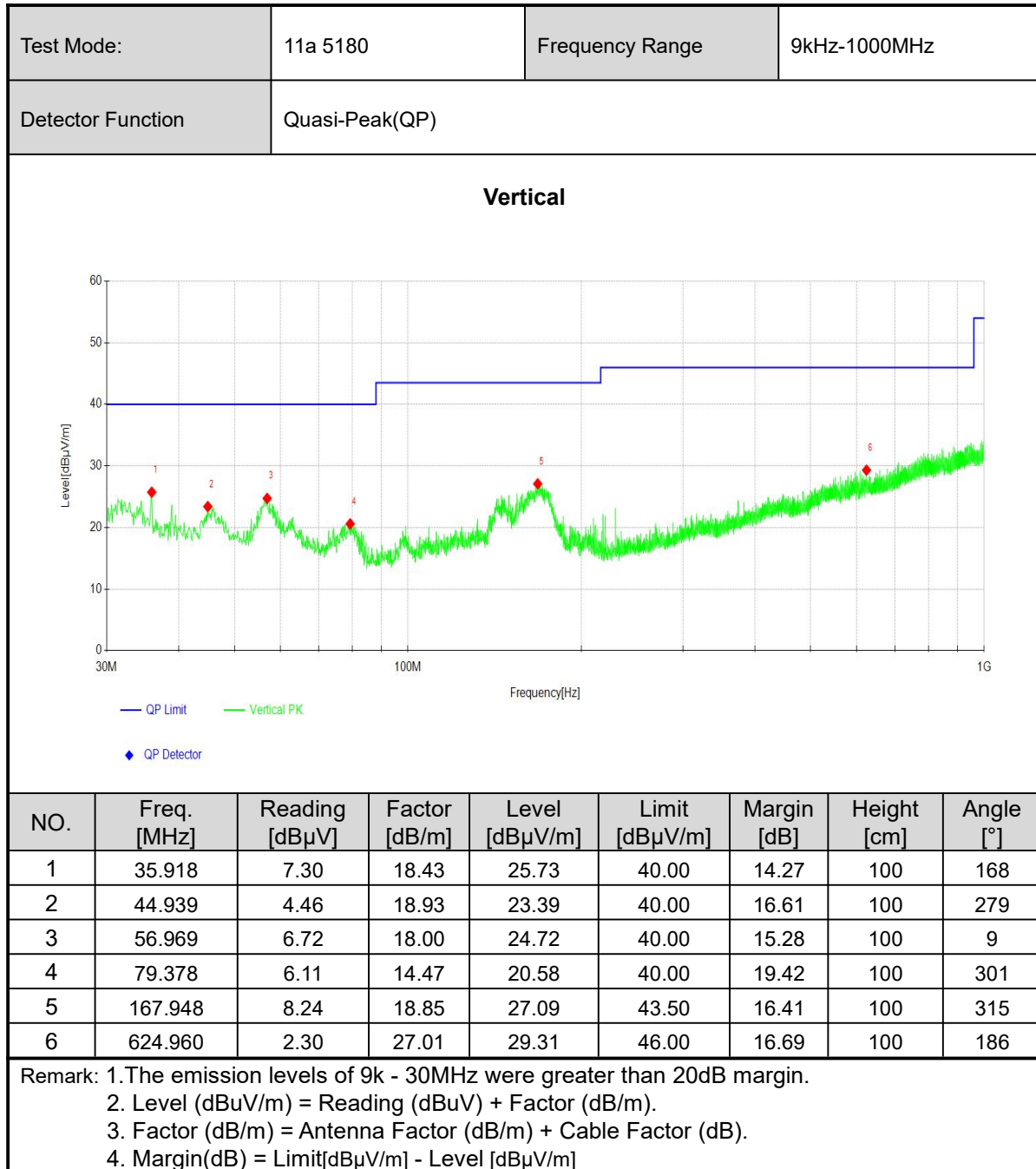
Above 1GHz Test Setup:



Note: For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Setup)

3.2.5 TEST RESULTS - BELOW 1GHz





3.2.6 TEST RESULTS - Band 1 (5180-5240MHz):

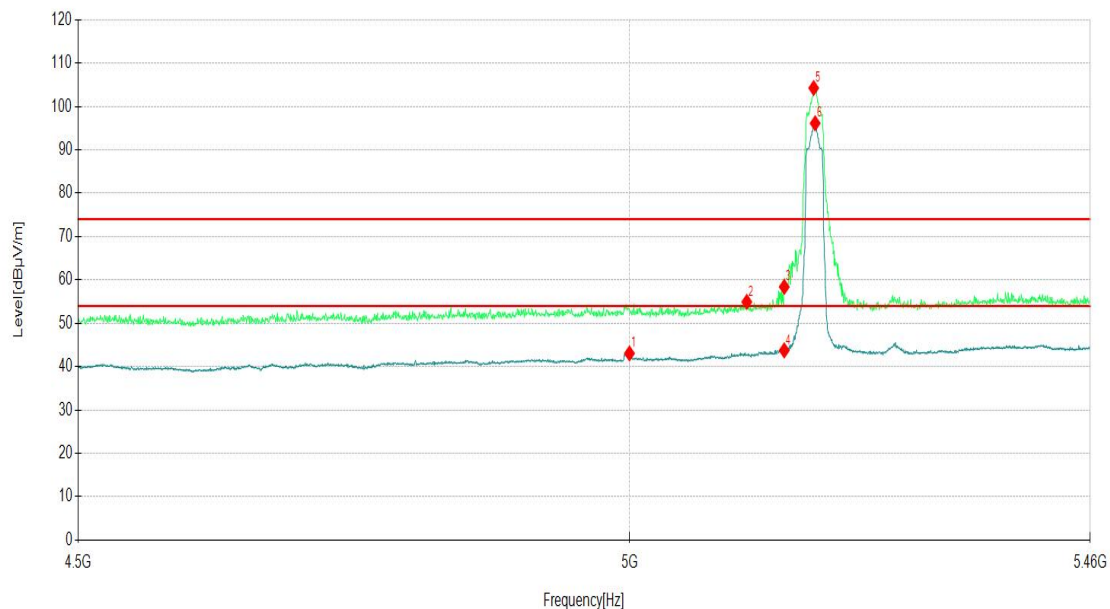
ABOVE 1GHz DATA

(Note: All the modes have been tested, found worst case at 802.11a, recorded the worst case results in this report.)

Channel	802.11a CH36	Frequency	5180 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4999.93	35.51	7.54	43.05	54.00	10.95	AV
2	5113.27	46.96	7.97	54.93	74.00	19.07	PK
3	5150.00	50.36	8.03	58.39	74.00	15.61	PK
4	5150.00	35.72	8.03	43.75	54.00	10.25	AV
5	5179.06	96.32	7.92	104.24			PK
6	5180.50	88.22	7.90	96.12			AV
7	10360.00	26.91	16.24	43.15	68.20	25.05	PK
8	10360.00	18.56	16.24	34.80	54.00	19.20	AV
9	15540.00	23.47	19.20	42.67	74.00	31.33	PK
10	15540.00	13.91	19.20	33.11	54.00	20.89	AV



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

Channel	802.11a CH36	Frequency	5180 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5180.50	89.75	7.90	97.65			AV
2	5180.98	97.90	7.89	105.79			PK
3	5350.00	45.10	9.96	55.06	74.00	18.94	PK
4	5350.00	34.53	9.96	44.49	54.00	9.51	AV
5	5406.21	34.94	10.19	45.13	54.00	8.87	AV
6	5416.30	48.01	9.95	57.96	74.00	16.04	PK
7	10360.00	28.46	16.24	44.70	68.20	23.50	PK
8	10360.00	18.47	16.24	34.71	54.00	19.29	AV
9	15540.00	23.47	19.20	42.67	74.00	31.33	PK
10	15540.00	14.16	19.20	33.36	54.00	20.64	AV

Level [dBμV/m]

Frequency [Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11a CH44		Frequency		5220 MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	10440.00	26.43	16.71	43.14	68.20	25.06	PK
2	10440.00	17.23	16.71	33.94	54.00	20.06	AV
3	15660.00	23.20	19.93	43.13	74.00	30.87	PK
4	15660.00	14.44	19.93	34.37	54.00	19.63	AV
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	10440.00	18.34	16.71	35.05	54.00	18.95	AV
2	10440.00	27.68	16.71	44.39	68.20	23.81	PK
3	15660.00	13.86	19.93	33.79	54.00	20.21	AV
4	15660.00	23.64	19.93	43.57	74.00	30.43	PK
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]							

Channel	802.11a CH48	Frequency	5240 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4998.49	35.95	7.44	43.39	54.00	10.61	AV
2	4999.93	47.87	7.54	55.41	74.00	18.59	PK
3	5150.00	34.25	8.03	42.28	54.00	11.72	AV
4	5150.00	45.01	8.03	53.04	74.00	20.96	PK
5	5239.57	95.80	8.22	104.02			PK
6	5240.53	88.12	8.22	96.34			AV
7	5350.00	34.52	9.96	44.48	54.00	9.52	AV
8	5350.00	45.24	9.96	55.20	74.00	18.80	PK
9	5400.45	46.63	10.04	56.67	74.00	17.33	PK
10	5405.73	34.97	10.17	45.14	54.00	8.86	AV
11	10480.00	26.40	16.74	43.14	68.20	25.06	PK
12	10480.00	17.93	16.74	34.67	54.00	19.33	AV
13	15720.00	22.10	20.24	42.34	74.00	31.66	PK
14	15720.00	12.86	20.24	33.10	54.00	20.90	AV

Level[dBμV/m]

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = |imit[dBμV/m] - | evel [dBμV/m]

Channel	802.11a CH48	Frequency	5240 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	4998.01	37.05	7.41	44.46	54.00	9.54	AV
2	4998.49	49.24	7.44	56.68	74.00	17.32	PK
3	5150.00	34.57	8.03	42.60	54.00	11.40	AV
4	5150.00	45.91	8.03	53.94	74.00	20.06	PK
5	5240.05	98.40	8.22	106.62			PK
6	5240.53	90.56	8.22	98.78			AV
7	5350.00	34.59	9.96	44.55	54.00	9.45	AV
8	5350.00	45.18	9.96	55.14	74.00	18.86	PK
9	5373.08	46.95	9.98	56.93	74.00	17.07	PK
10	5408.13	35.03	10.25	45.28	54.00	8.72	AV
11	10480.00	17.95	16.74	34.69	54.00	19.31	AV
12	10480.00	27.41	16.74	44.15	68.20	24.05	PK
13	15720.00	13.60	20.24	33.84	54.00	20.16	AV
14	15720.00	22.94	20.24	43.18	74.00	30.82	PK

Level [dBμV/m]

Frequency [Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

3.2.7 TEST RESULTS - Band 4 (5745-5825MHz):

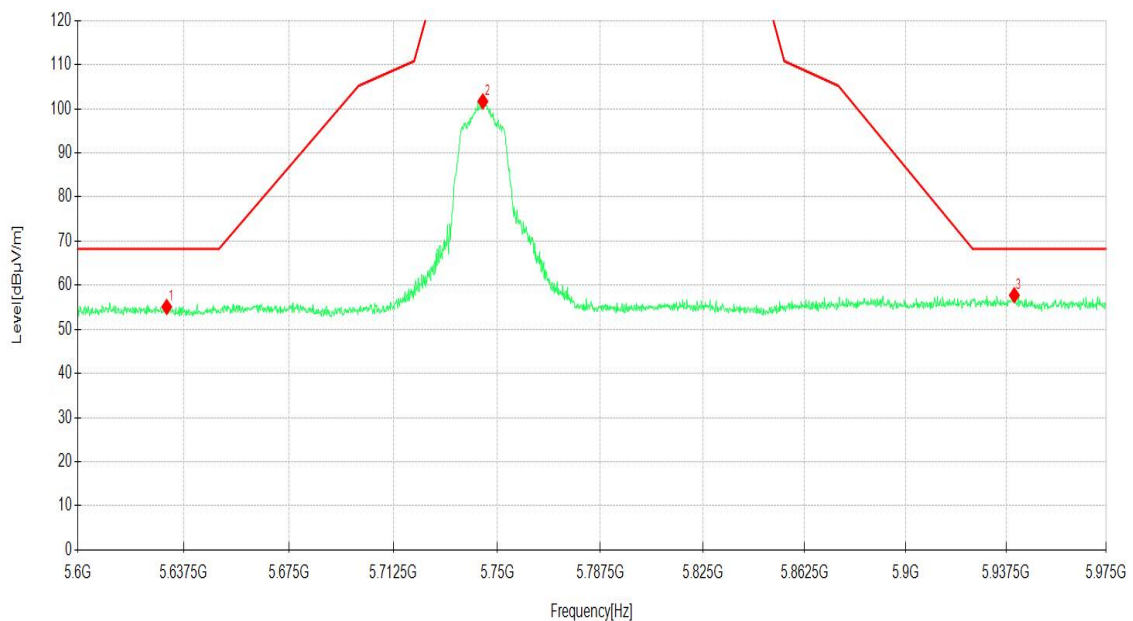
ABOVE 1GHz DATA

(Note: All the modes have been tested, found worst case at 802.11a, recorded the worst case results in this report.)

Channel	802.11a CH149	Frequency	5745 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5631.52	46.14	8.95	55.09	68.20	13.11	PK
2	5744.82	92.73	8.94	101.67			PK
3	5940.48	47.00	10.75	57.75	68.20	10.45	PK
4	11490.00	25.82	15.04	40.86	74.00	33.14	PK
5	11490.00	18.26	15.04	33.30	54.00	20.70	AV
6	17235.00	19.56	25.54	45.10	68.20	23.10	PK
7	17235.00	12.01	25.54	37.55	54.00	16.45	AV



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

Channel	802.11a CH149	Frequency	5745 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5625.33	47.39	9.02	56.41	68.20	11.79	PK
2	5744.82	101.70	8.94	110.64			PK
3	5937.86	47.42	10.75	58.17	68.20	10.03	PK
4	11490.00	20.27	15.04	35.31	54.00	18.69	AV
5	11490.00	26.76	15.04	41.80	74.00	32.20	PK
6	17235.00	15.32	25.54	40.86	54.00	13.14	AV
7	17235.00	22.16	25.54	47.70	68.20	20.50	PK

Level[dBμV/m]

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel		802.11a CH157		Frequency		5785 MHz	
Frequency Range		Above 1G		Detector Function		PK/AV	
Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	11570.00	18.51	15.34	33.85	54.00	20.15	AV
2	11570.00	26.05	15.34	41.39	74.00	32.61	PK
3	17355.00	10.92	26.31	37.23	54.00	16.77	AV
4	17355.00	18.55	26.31	44.86	68.20	23.34	PK
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	11570.00	26.87	15.34	42.21	74.00	31.79	PK
2	11570.00	19.35	15.34	34.69	54.00	19.31	AV
3	17355.00	18.38	26.31	44.69	68.20	23.51	PK
4	17355.00	11.34	26.31	37.65	54.00	16.35	AV
Remark: 1. The emission levels of other frequencies were greater than 20dB margin. 2. Level (dBuV/m) = Reading (dBuV) + Factor (dB/m). 3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB). 4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]							

Channel	802.11a CH165	Frequency	5825 MHz
Frequency Range	Above 1G	Detector Function	PK/AV

Horizontal							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5639.58	46.90	8.46	55.36	68.20	12.84	PK
2	5824.55	92.61	8.80	101.41			PK
3	5935.23	46.50	10.67	57.17	68.20	11.03	PK
4	11650.00	25.38	15.20	40.58	74.00	33.42	PK
5	11650.00	18.51	15.20	33.71	54.00	20.29	AV
6	17475.00	18.48	26.05	44.53	68.20	23.67	PK
7	17475.00	11.66	26.05	37.71	54.00	16.29	AV

Level[dBμV/m]

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

Channel	802.11a CH165	Frequency	5825 MHz				
Frequency Range	Above 1G	Detector Function	PK/AV				
Vertical							
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector
1	5642.40	48.56	8.54	57.10	68.20	11.10	PK
2	5824.74	99.33	8.80	108.13			PK
3	5936.73	47.35	10.70	58.05	68.20	10.15	PK
4	11650.00	29.14	15.20	44.34	74.00	29.66	PK
5	11650.00	21.16	15.20	36.36	54.00	17.64	AV
6	17475.00	17.53	26.05	43.58	68.20	24.62	PK
7	17475.00	10.51	26.05	36.56	54.00	17.44	AV

Level[dBμV/m]

Frequency[Hz]

Remark: 1. The emission levels of other frequencies were greater than 20dB margin.

2. Level (dBμV/m) = Reading (dBμV) + Factor (dB/m).

3. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

4. Margin(dB) = Limit[dBμV/m] - Level [dBμV/m]

3.3 OCCUPIED BANDWIDTH MEASUREMENT

3.3.1 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.

3.3.2 TEST SETUP



3.4 26DB EMISSION BANDWIDTH

3.4.1 LIMITS OF 26DB EMISSION BANDWIDTH

This section is for reporting purpose only, there is on restriction limit of bandwidth

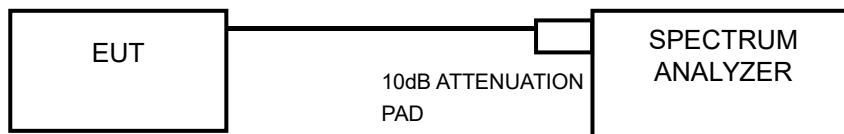
3.4.2 TEST PROCEDURES

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = Peak
- 4) Trace mode = max hold.
- 5) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

3.4.3 TEST SETUP

FOR 26dB BANDWIDTH



3.5 6DB EMISSION BANDWIDTH

3.5.1 LIMITS OF 6DB EMISSION BANDWIDTH

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

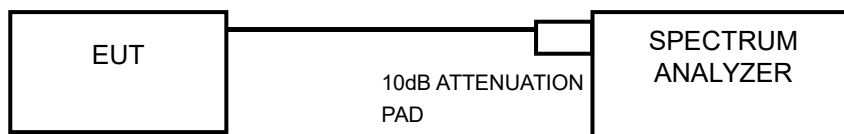
3.5.2 TEST PROCEDURES

FOR 6dB BANDWIDTH

- 1)Set RBW = 100 kHz.
- 2)Set the video bandwidth (VBW) ≥ 3 RBW.
- 3)Detector = Peak.
- 4)Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7)Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 TEST SETUP

FOR 6dB BANDWIDTH



3.6 TRANSMIT POWER MEASUREMENT

3.6.1 LIMITS OF TRANSMIT POWER MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client device	250mW (24 dBm)
U-NII-2A			250mW(24dBm) or 11 dBm+10LogB*
U-NII-2C			250mW(24dBm) or 11 dBm+10LogB*
U-NII-3	√		1 Watt (30 dBm)

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.6.2 LIMITS OF TRANSMIT POWER MEASUREMENT(IC)

Applicable	FREQUENCY BAND	LIMIT
√	5.150 ~ 5.250GHz	EIRP shall not exceed 200mW or 10+ 10logB, dBm
	5.250 ~ 5.350GHz	Conducted output power shall not exceed 250mW or 11+ 10logB, dBm EIRP shall not exceed 1.0W or 17+ 10logB, dBm
	5.470 ~ 5.600GHz	
	5.650 ~ 5.725GHz	
√	5.725 ~ 5.825GHz	Conducted output power shall not exceed 1 W.

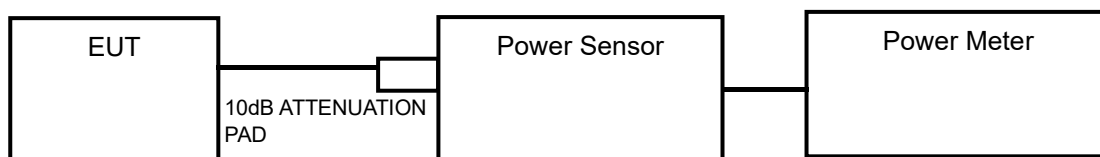
NOTE: Where B is the 99% emission bandwidth in MHz

3.6.3 TEST PROCEDURES

FOR AVERAGE POWER MEASUREMENT

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

3.6.4 TEST SETUP



3.7 POWER SPECTRAL DENSITY MEASUREMENT

3.7.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(FCC)

Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
	√	Mobile and Portable client device	11dBm/ MHz
U-NII-2A			11dBm/ MHz
U-NII-2C			11dBm/ MHz
U-NII-3	√		30dBm/ 500kHz

3.7.2 . LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT(IC)

Applicable?	FREQUENCY BAND	LIMIT(dBm)
√	5.15 ~ 5.25GHz	EIRP spectral density shall not exceed 10 dBm in any 1.0 MHz band.
	5.25 ~ 5.35GHz and 5.470 ~ 5.725GHz	Power spectral density shall not exceed 11 dBm in any 1.0 MHz band.
√	5.725~5825GHz	Power spectral density shall not exceed 30 dBm in any 500 kHz band.

3.7.3 TEST PROCEDURE

For U-NII-1, U-NII-2A, U-NII-2Cband:

Using method SA-2

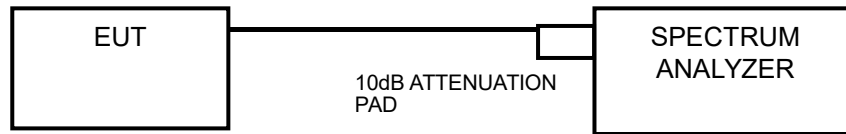
- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW =3 MHz, Detector = AV
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to“free run”.
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW =1 MHz, Detector = AV
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to“free run”.
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

3.7.4 TEST SETUP



3.8 FREQUENCY STABILITY

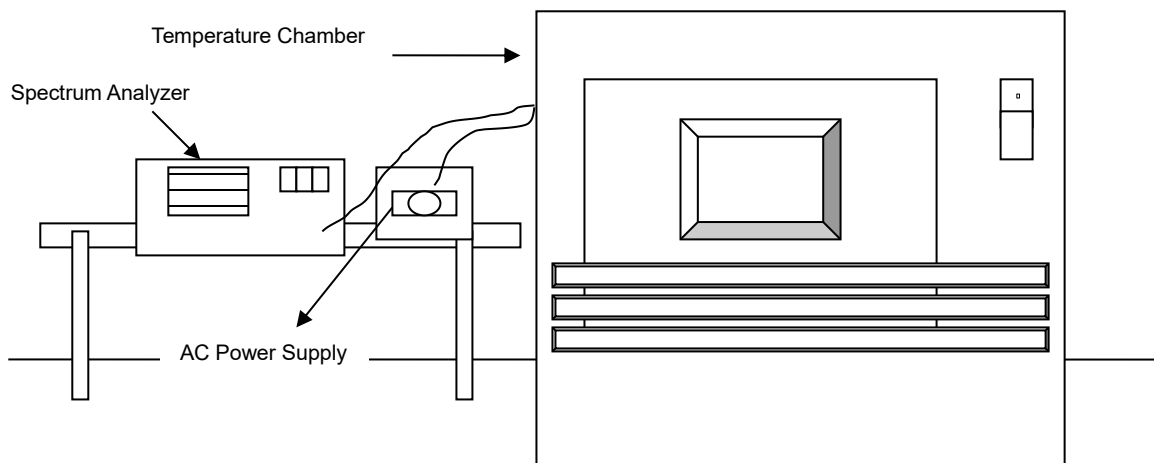
3.8.1 LIMITS OFFREQUENCY STABILITY

The frequency of the carrier signal shall be maintained within band of operation.

3.8.2 TEST PROCEDURES

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

3.8.3 TEST SETUP



3.9 ANTENNA REQUIREMENT

3.9.1 LIMITS OFFREQUENCY STABILITY

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. According to FCC 47 CFR Section 15.407(a)(1)(2) , 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.

3.9.2 ANTENNA ANTI-REPLACEMENT CONSTRUCTION

The antenna used for this product i PCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device

3.9.3 ANTENNA GAIN

No Beamforming mode

Operation Band	Chain 1 Antenna Gain(dBi)	Chain 2 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
U-NII-1	2.10	2.10	5.1	0
U-NII-3	4.20	4.20	7.2	1.2

Beamforming mode

Operation Band	Chain 1 Antenna Gain(dBi)	Chain 2 Antenna Gain(dBi)	DG For Power (dBi)	Power Limit Reduction
U-NII-1	2.10	2.10	5.1	0
U-NII-3	4.20	4.20	7.2	1.2

Refer to KDB662911 D01 Multiple Transmitter Output v02r01.

d) *Unequal antenna gains, with equal transmit powers.* For antenna gains given by $G_1, G_2, \dots, G_N$ dBi

(i) If transmit signals are *correlated*, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

(ii) If all transmit signals are *completely uncorrelated*, then

Directional gain = $10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10}) / N_{ANT}]$ dBi

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 valid 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 Approval and Reviewer;
- (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 is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

***The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented. ***

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