



RF Test Report

Applicant: Quectel Wireless Solutions Co., Ltd.

Address: Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, 200233 China

Product: Wi-Fi & Bluetooth Module

Model No.: FCM362K

Brand Name: QUECTEL

FCC ID: XMR2023FCM362K

Standards: FCC CFR47 Part 15C

Report No.: PD20250012-R3C

Issue Date: 2025/05/07

Test Result: PASS *

* Testing performed at Hefei Panwin Technology Co., Ltd. on the above equipment indicates the product meets the requirements of the relevant standards.

Reviewed By: Jerry Zhang

Approved By: Alec Yang

Hefei Panwin Technology Co., Ltd.

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Revision History

Report No.	Version	Description	Issue Date	Note
PD20250012-R3C	1	Initial Report	2025/05/07	Valid

Remark:

The customer claims that product with ordering code FCM362KAAMD-0P-04 and FCM362KABMD-0P-04 both use AIC8800M40B chipset, share the same chipset baseline, same software and hardware design, the difference is PCB antenna matching is in consistent. Distinguish by changing the position of one resistor. Above changes won't impact the protocol and RF performance for same frequency.

We have verified the RF output power and power spectral density, and there is no deterioration compared to the original report data. Therefore this report records the verification data of Radiated Band Edges and Spurious Emission. Other test data is referred to in the original report (Report No.: FR3N1003C) released by Sporton International Inc. (KunShan) on Dec. 21, 2023.

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Test Summary

No.	Test Case	FCC Rules	Verdict
1	Output Power Measurement	15.247(b)	Refer to original report
2	6dB and 99% Bandwidth Measurement	15.247(a)(2)	Refer to original report
3	Power Spectral Density Measurement	15.247(e)	Refer to original report
4	Conducted Band Edges and Spurious Emission Measurement	15.247(d)	Refer to original report
5	Radiated Band Edges and Spurious Emission Measurement	15.247(d)	PASS
6	AC Conducted Emission Measurement	15.207	NA
7	Antenna Requirements	15.203 & 15.247(b)	PASS

Date of Testing: 2025/03/03 to 2025/04/26

Date of Sample Received: 2025/01/26

- We, Hefei Panwin Technology Co., Ltd., would like to declare that the tested sample has been evaluated in accordance with the procedures given in applied standard(s) in **Section 2.3** of this report and shown compliance with the applicable technical standards.
- All indications of PASS/FAIL in this report are based on interpretations and/or observations of test results.

Measurement Uncertainties were not taken into account and are published for informational purposes only.

1 General Information

1.1 Notes of the Test Report

This report is invalid without signature of auditor and approver or with any alterations. The report shall not be partially reproduced without written approval of the testing company. Entrusted test results are only responsible for incoming samples. If there is any objection to the testing report, it shall be raised to the testing company within 15 days from the date of receiving the report. In the test results, "NA" means "not applicable", and the test items marked with " Δ " are subcontracted projects.

1.2 Test Facility

A2LA (Certificate Number: 6849.01)

Hefei Panwin Technology Co., Ltd. has been accredited by American Association for Laboratory Accreditation to perform measurement.

FCC (Designation Number: CN1361, Test Firm Registration Number: 473156)

Hefei Panwin Technology Co., Ltd. has been accredited on the US Federal Communications Commission list of test facilities recognized to perform measurements.

1.3 Testing Laboratory

Company Name	Hefei Panwin Technology Co., Ltd.
Address	Floor 1, Zone E, Plant 2#, Mingzhu Industrial Park, No.106 Chuangxin Avenue, High-tech Zone, Hefei City, Anhui Province, China
Telephone	+86-0551-63811775
Post Code	230031

2 General Description of Equipment under Test

2.1 Details of Application

Applicant	Quectel Wireless Solutions Co., Ltd.
Applicant Address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, 200233 China
Manufacturer	Quectel Wireless Solutions Co., Ltd.
Manufacturer Address	Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Minhang District, Shanghai, 200233 China

2.2 General Information

Product	Wi-Fi & Bluetooth Module
Model	FCM362K
SN	Conducted: D1M24J70J000152 Radiated: D1M24J70D000136 & D1M24K70D000126
Hardware Version	R1.1
Software Version	FCM362KAAR03A03M04
Directional Gain	NA
Antenna Type	PCB Antenna
Antenna Gain	1.10dBi
Additional Beamforming Gain	NA
Operating voltage	Typical 3.3Vdc
Type of Modulation	WLAN 802.11b/g/n HT20/n HT40/ax HE20/ax HE40: DBPSK,DQPSK,CCK, BPSK,QPSK,16QAM,64QAM,256QAM,1024QAM
Operating Frequency Range(s)	802.11b/g/n HT20/ax HE20: 2412 to 2462MHz 802.11n HT40/ax HE40: 2422 to 2452MHz
Remark 1: The declared of product specification for EUT and/or Antenna presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.	
Remark 2: 802.11ax only supports full RU tones and does not support partial RU tones.	

2.3 Application Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

3 Test Condition

3.1 Test Configuration

Test 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). The worst cases were recorded in this report.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes (Z, X, Y axis), receiver antenna polarization (horizontal and vertical), the worst emission was found in Z position and the worst case was recorded. This report presents the data for the worst polarity.

Test Mode	Data Rate(Mbps)
802.11b_SISO	1
802.11g_SISO	6
802.11n HT20_SISO	MCS0
802.11n HT40_SISO	MCS0
802.11ax HE20_SISO	MCS0
802.11ax HE40_SISO	MCS0

3.2 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	/	/

3.3 Equipment List

Radiated

Instrument	Manufacturer	Model	Asset No.	Cal. Interval	Cal. Due Date
EMI Test Receiver	R&S	ESR7	PWB0023	1 Year	2025/09/11
Spectrum Analyzer	R&S	FSV3044	PWB0024	1 Year	2025/09/11
Loop Antenna	R&S	HFH2-Z2E	PWB0026	1 Year	2025/09/13
TRILOG Broadband	Schwarzbeck	VULB9162	PWB0029	1 Year	2025/09/09
Double-Ridged Guide Antenna	ETS-Lindgren	3117	PWB0031	1 Year	2025/09/26
k Type Horn Antenna	Steatite Antennas	QMS-00880	PWB0035	1 Year	2025/09/08
Pre-Amplifier	R&S	SCU40F1	PWB0036	1 Year	2025/09/11
Pre-Amplifier	COM-MW	DLNA8	PWB0094	1 Year	2025/09/11
Pre-Amplifier	R&S	SCU18F	PWB0034	1 Year	2025/09/11
Pre-Amplifier	R&S	OSP220 (OSP-B155G)	PWB0042	1 Year	2025/09/11
Anechoic Chamber	ETS.LINDGREN	Fact 3-2m	PWB0003	3 Years	2026/06/05
Test Software	Tonscend	TS+ V5.0.0	/	/	/

3.4 Support Equipment List

Equipment	Manufacturer	Description	Model	Serial Number
EVB	Quectel	/	/	/
RF cable	/	2.4G:0.5dB; 5G:1dB	/	/

3.5 Test Uncertainty

No.	Parameter	Uncertainty
1	DTS Bandwidth	1.9 %
2	Occupied channel bandwidth	1.9 %
3	Duty Cycle	0.11 %
4	Maximum Conducted Output Power	1.18 dB
5	Maximum Power Spectral Density Level	0.98 dB
6	Band-edge Compliance	1.21dB
7	Unwanted Emissions In Non-restricted Frequency Bands	9kHz-7GHz: 1.21 dB 7GHz-40GHz: 3.31 dB
8	Radiated Band Edges and Spurious Emission	Below 1GHz: 4.88 dB Above 1GHz: 5.06 dB
9	Temperature	3 °C
10	Humidity	1.3 %
11	Supply Voltages	0.006 V

4 Test Items Description

Ambient condition

Anechoic Chamber

Temperature [°C]	20.5 to 23.2
Humidity [%RH]	30 to 48
Pressure [kPa]	99.5 to 102.5

4.1 Output Power Measurement

4.1.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm.

If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

4.1.2 Measuring Instruments

The section 2.3 of List of Measuring Equipment of this test report is used for test.

4.1.3 Test Procedures

The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.2.2.4 Method AVGSA-2.

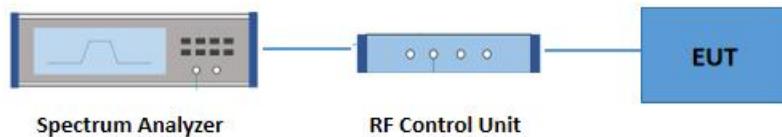
Method AVGSA-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction. The procedure for this method is as follows:

1. Measure the duty cycle D of the transmitter output signal as described in 11.6.
2. Set span to at least 1.5 times the OBW.
3. Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
4. Set VBW $\geq [3 \times RBW]$.
5. Number of points in sweep $\geq [2 \times \text{span}/\text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
6. Sweep time = auto.
7. Detector = RMS (i.e., power averaging), if available. Otherwise, use the sample detector mode.
8. Do not use sweep triggering. Allow the sweep to “free run.”
9. Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the ON and OFF periods of the transmitter.
10. Compute power by integrating the spectrum across the OBW of the signal using the Instrument’s band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in

power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

11. Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add $[10 \log (1/0.25)] = 6 \text{ dB}$ if the duty cycle is 25%.

4.1.4 Test Setup



4.1.5 Test Results

See ANNEX A.

4.2 6dB and 99% Bandwidth Measurement

4.2.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz

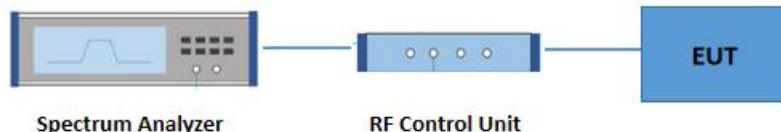
4.2.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.

4.2.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8 & 6.9.3.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the RBW.
6. Measure and record the results in the test report.

4.2.4 Test Setup



4.2.5 Test Results

See ANNEX A.

4.3 Power Spectral Density Measurement

4.3.1 Limit of Power Spectral Density

Rule Part 15.247(e) specifies that" For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.

4.3.3 Test Procedures

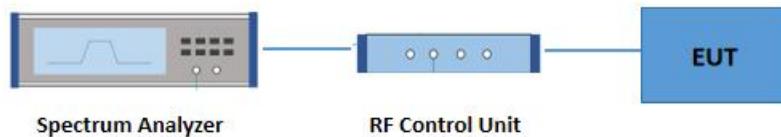
The testing follows ANSI C63.10-2013 clause 11.10.5.

Method AVGPSD-2 uses trace averaging across ON and OFF times of the EUT transmissions, followed by duty cycle correction.

The following procedure is applicable when the EUT cannot be configured to transmit continuously (i.e., $D < 98\%$), when sweep triggering/signal gating cannot be used to measure only when the EUT is transmitting at its maximum power control level, and when the transmission duty cycle is constant (i.e., duty cycle variations are less than $\pm 2\%$):

1. Measure the duty cycle (D) of the transmitter output signal as described in 11.6.
2. Set instrument center frequency to DTS channel center frequency.
3. Set span to at least 1.5 times the OBW.
4. Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
5. Set VBW $\geq [3 \times \text{RBW}]$.
6. Detector = power averaging (rms) or sample detector (when rms not available).
7. Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
8. Sweep time = auto couple.
9. Do not use sweep triggering; allow sweep to "free run."
10. Employ trace averaging (rms) mode over a minimum of 100 traces.
11. Use the peak marker function to determine the maximum amplitude level.
12. Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
13. If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

4.3.4 Test Setup



4.3.5 Test Result of Power Spectral Density

Please refer to ANNEX A.

4.4 Conducted Band Edges and Spurious Emission Measurement

4.4.1 Limit of Conducted Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

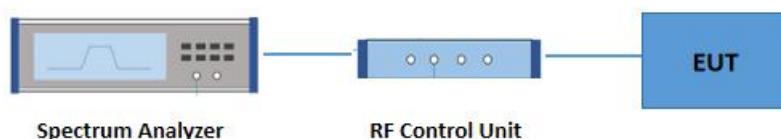
4.4.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test

4.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

4.4.4 Test Setup



4.4.5 Test Result

Please refer to ANNEX A.

4.5 Radiated Band Edges and Spurious Emission Measurement

4.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

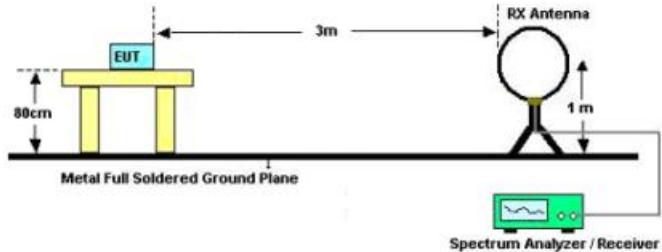
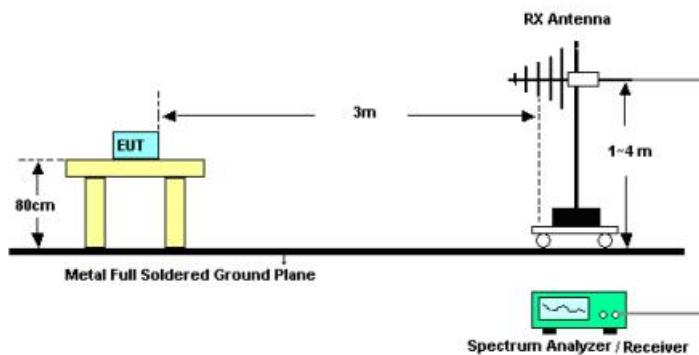
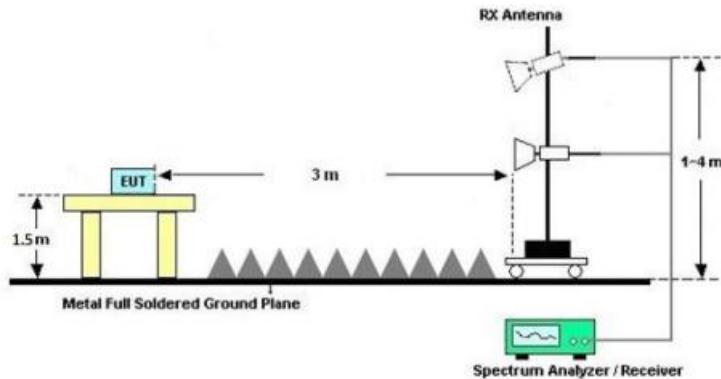
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30-88	100	3
88 -216	150	3
216 - 960	200	8
Above 960	500	3

4.5.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.

4.5.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level -Pre-amp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured.
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold.
 - (3) Set RBW = 1 MHz, VBW= 3MHz for ≥ 1 GHz for peak measurement
For average measurement:
VBW= 10 Hz, when duty cycle is no less than 98 percent.
VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

4.5.4 Test Setup**For radiated emissions below 30MHz****For radiated emissions from 30MHz to 1GHz****For radiated emissions above 1GHz****4.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

4.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to ANNEX B.1.

4.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHzwhichever is lower)

Please refer to ANNEX B.1.

4.5.8 Duty Cycle

Please refer to ANNEX A.

4.6 AC Conducted Emission Measurement

4.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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

Decreases with the logarithm of the frequency.

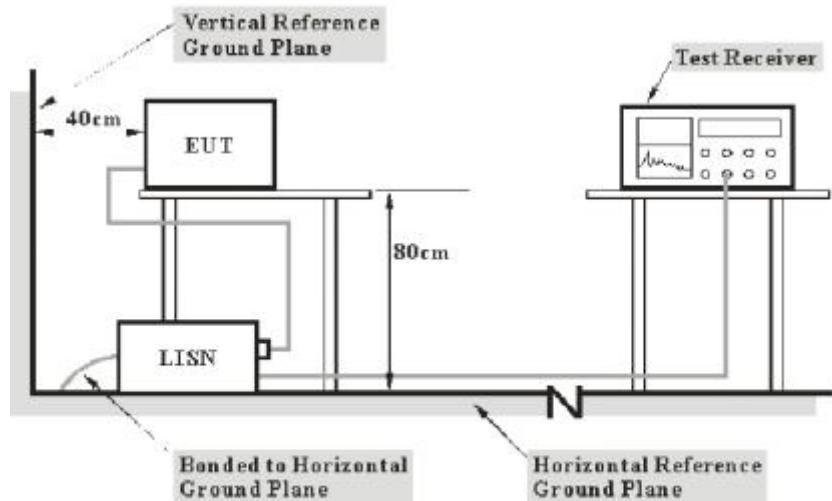
4.6.2 Measuring Instruments

The section 3.3 of List of Measuring Equipment of this test report is used for test.

4.6.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 6.2.
2. The mains terminal disturbance voltage test was conducted in a shielded room.
3. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
4. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
5. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
6. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2013 on conducted measurement.

4.6.4 Test Setup



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

4.6.5 Uncertainty Measurement

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT. The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

CASE	Uncertainty
Continuous Emission (AC port)	2.92 dB

4.6.6 Test Result

Remark: The product is DC powered, this test item is not applicable.

4.7 Antenna Requirements

4.7.1 Standard Applicable

15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.7.2 Antenna Anti-Replacement Construction

The antenna is Internal on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.10dBi.

----- THE END -----

ANNEX A: Test Results of Conducted Test**Test Result**

For detailed test data, please refer to the original report number which is issued separately.

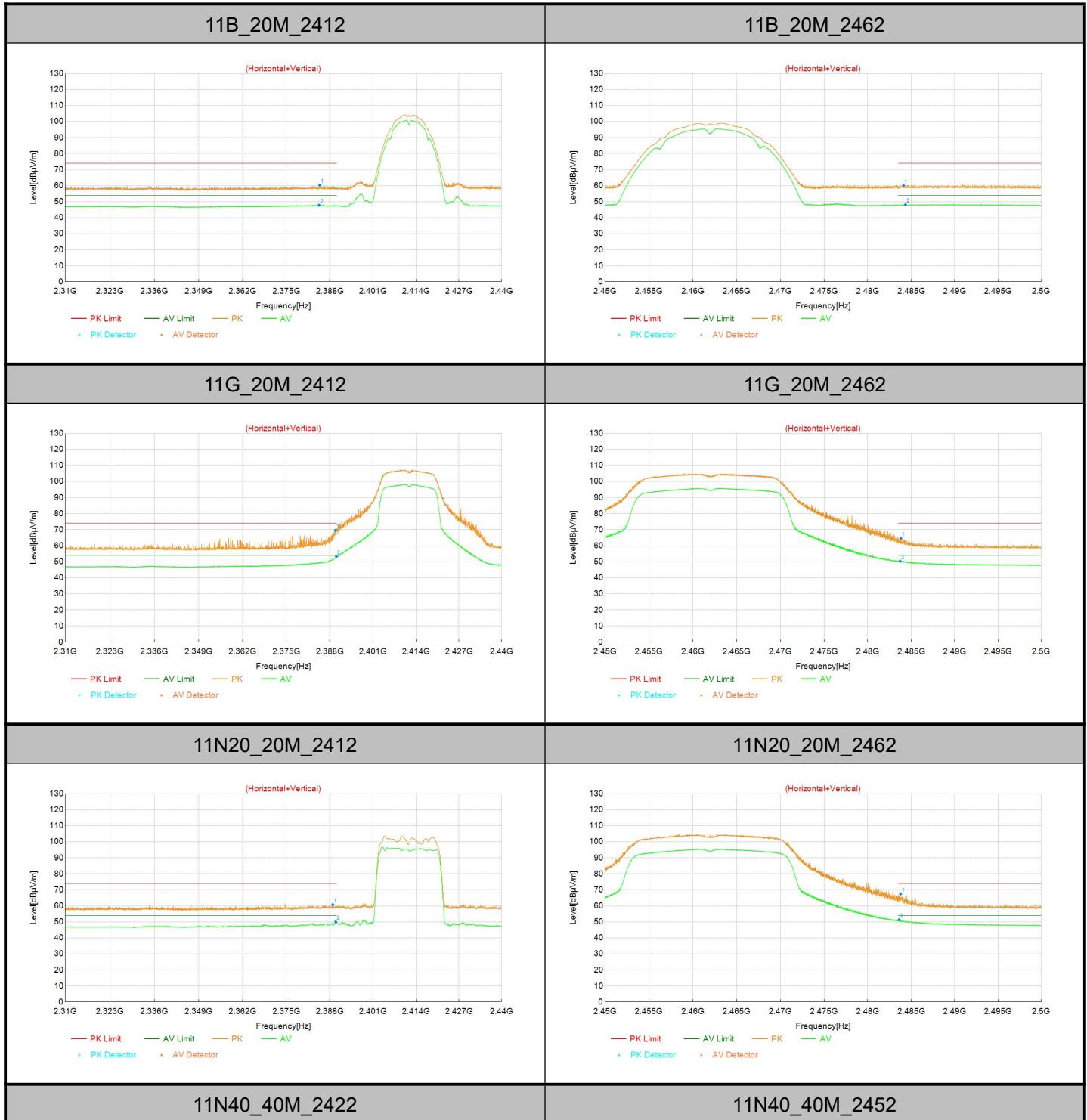
Test Report No.	Original Report No.
PD20250012-R3C	FR3N1003C

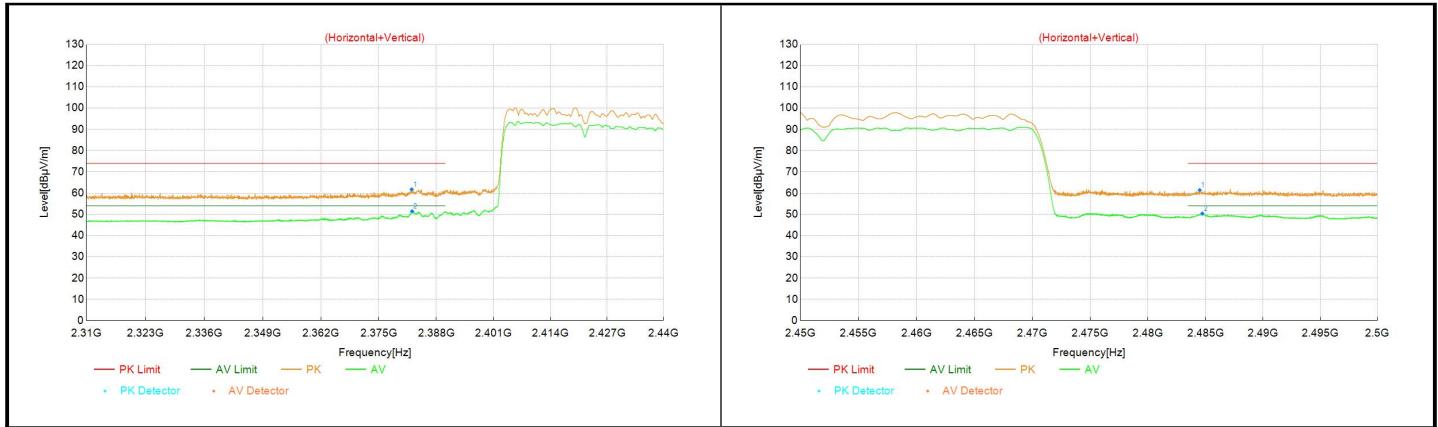
ANNEX B: Test Results of Radiated Test**B.1 Radiated Band Edges and Spurious Emission****Test Result_Band Edges**

Note: Both vertical and horizontal polarities have been evaluated, and the test data only shows the worst-case.
Level=Reading+Factor; Margin=Limit-Level; V=Vertical , H=Horizontal.

Data List									
Test Mode	Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Pol.	Det	
11B_20M_2412	2384.9775	48.09	60.30	12.21	74.00	13.70	H	PK	
	2384.7825	35.65	47.86	12.21	54.00	6.14	H	AV	
11B_20M_2462	2484.1125	47.41	60.12	12.71	74.00	13.88	H	PK	
	2484.325	35.44	48.17	12.73	54.00	5.83	H	AV	
11G_20M_2412	2389.69	57.60	69.60	12.00	74.00	4.40	H	PK	
	2389.95	41.36	53.35	11.99	54.00	0.65	H	AV	
11G_20M_2462	2483.8125	51.89	64.58	12.69	74.00	9.42	H	PK	
	2483.725	37.76	50.44	12.68	54.00	3.56	H	AV	
11N20_20M_2412	2388.91	48.79	60.83	12.04	74.00	13.17	H	PK	
	2389.7875	38.08	50.08	12.00	54.00	3.92	H	AV	
11N20_20M_2462	2483.775	54.74	67.43	12.69	74.00	6.57	H	PK	
	2483.6	38.67	51.34	12.67	54.00	2.66	H	AV	
11N40_40M_2422	2382.4425	49.56	61.77	12.21	74.00	12.23	H	PK	
	2382.54	39.24	51.44	12.20	54.00	2.56	H	AV	
11N40_40M_2452	2484.5	48.67	61.41	12.74	74.00	12.59	H	PK	
	2484.725	37.64	50.40	12.76	54.00	3.60	H	AV	

Test Graphs_Band Edges





Test Result_Spurious Emission

Note1: Test result Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier the Emissions in the frequency band 9kHz-30MHz and 18GHz-26.5GHz are more than 20dB below the limit are not reported.

Note2: Both vertical and horizontal polarities have been evaluated, and the test data only shows the worst-case. Level=Reading+Factor; Margin=Limit-Level; V=Vertical , H=Horizontal.

Data List									
Test Mode	Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Pol.	Det	
11B_20M_2412	4824	49.98	57.23	7.25	74.00	16.77	H	PK	
	7236	41.92	56.05	14.13	74.00	17.95	H	PK	
	9648	33.21	47.86	14.65	74.00	26.14	H	PK	
	12060	32.37	48.40	16.03	74.00	25.60	H	PK	
	14472	32.54	50.81	18.27	74.00	23.19	V	PK	
	16884	30.39	54.30	23.91	74.00	19.70	V	PK	
	4824	44.66	51.91	7.25	54.00	2.09	H	AV	
	7236	30.99	45.12	14.13	54.00	8.88	H	AV	
	9648	22.77	37.42	14.65	54.00	16.58	V	AV	
	12060	21.98	38.01	16.03	54.00	15.99	V	AV	
11B_20M_2437	14472	20.32	38.59	18.27	54.00	15.41	H	AV	
	16884	19.82	43.73	23.91	54.00	10.27	V	AV	
	4874	50.67	58.00	7.33	74.00	16.00	H	PK	
	7311	41.87	55.56	13.69	74.00	18.44	H	PK	
	9748	33.11	48.03	14.92	74.00	25.97	V	PK	
	12185	32.78	48.40	15.62	74.00	25.60	V	PK	
	14622	31.19	49.60	18.41	74.00	24.40	H	PK	
	17059	28.50	53.08	24.58	74.00	20.92	V	PK	
	4874	45.98	53.31	7.33	54.00	0.69	H	AV	
	7311	31.04	44.73	13.69	54.00	9.27	V	AV	
11B_20M_2437	9748	22.50	37.42	14.92	54.00	16.58	H	AV	
	12185	22.29	37.91	15.62	54.00	16.09	H	AV	
	14622	21.08	39.49	18.41	54.00	14.51	H	AV	

11B_20M_2462	17059	18.02	42.60	24.58	54.00	11.40	H	AV
	4924	49.10	57.02	7.92	74.00	16.98	H	PK
	7386	41.86	55.82	13.96	74.00	18.18	H	PK
	9848	33.03	48.16	15.13	74.00	25.84	V	PK
	12310	33.06	49.14	16.08	74.00	24.86	V	PK
	14772	32.06	50.52	18.46	74.00	23.48	V	PK
	17234	28.80	52.81	24.01	74.00	21.19	H	PK
	4924	43.73	51.65	7.92	54.00	2.35	H	AV
	7386	30.66	44.62	13.96	54.00	9.38	H	AV
	9848	22.36	37.49	15.13	54.00	16.51	H	AV
	12310	22.14	38.22	16.08	54.00	15.78	H	AV
	14772	21.23	39.69	18.46	54.00	14.31	V	AV
	17234	17.81	41.82	24.01	54.00	12.18	V	AV
11G_20M_2412	4824	47.57	54.82	7.25	74.00	19.18	H	PK
	7236	43.21	57.34	14.13	74.00	16.66	V	PK
	9648	34.12	48.77	14.65	74.00	25.23	H	PK
	12060	33.70	49.73	16.03	74.00	24.27	V	PK
	14472	32.26	50.53	18.27	74.00	23.47	V	PK
	16884	31.04	54.95	23.91	74.00	19.05	H	PK
	4824	38.34	45.59	7.25	54.00	8.41	H	AV
	7236	31.43	45.56	14.13	54.00	8.44	H	AV
	9648	23.25	37.90	14.65	54.00	16.10	V	AV
	12060	22.35	38.38	16.03	54.00	15.62	H	AV
	14472	21.44	39.71	18.27	54.00	14.29	H	AV
	16884	19.85	43.76	23.91	54.00	10.24	H	AV
11G_20M_2437	4874	48.89	56.22	7.33	74.00	17.78	H	PK
	7311	42.62	56.31	13.69	74.00	17.69	H	PK
	9748	33.64	48.56	14.92	74.00	25.44	H	PK
	12185	33.64	49.26	15.62	74.00	24.74	V	PK

	14622	32.41	50.82	18.41	74.00	23.18	H	PK
	17059	29.67	54.25	24.58	74.00	19.75	V	PK
	4874	39.13	46.46	7.33	54.00	7.54	H	AV
	7311	31.43	45.12	13.69	54.00	8.88	H	AV
	9748	23.16	38.08	14.92	54.00	15.92	H	AV
	12185	22.99	38.61	15.62	54.00	15.39	V	AV
	14622	21.41	39.82	18.41	54.00	14.18	V	AV
	17059	18.83	43.41	24.58	54.00	10.59	H	AV
11G_20M_2462	4924	51.15	59.07	7.92	74.00	14.93	H	PK
	7386	42.17	56.13	13.96	74.00	17.87	H	PK
	9848	33.55	48.68	15.13	74.00	25.32	H	PK
	12310	33.13	49.21	16.08	74.00	24.79	V	PK
	14772	32.55	51.01	18.46	74.00	22.99	V	PK
	17234	29.59	53.60	24.01	74.00	20.40	V	PK
	4924	41.64	49.56	7.92	54.00	4.44	H	AV
	7386	31.05	45.01	13.96	54.00	8.99	V	AV
	9848	23.36	38.49	15.13	54.00	15.51	H	AV
	12310	22.33	38.41	16.08	54.00	15.59	H	AV
	14772	21.74	40.20	18.46	54.00	13.80	H	AV
	17234	19.47	43.48	24.01	54.00	10.52	V	AV
11N20_20M_2412	4824	47.83	55.08	7.25	74.00	18.92	H	PK
	7236	42.41	56.54	14.13	74.00	17.46	H	PK
	9648	33.81	48.46	14.65	74.00	25.54	H	PK
	12060	34.26	50.29	16.03	74.00	23.71	V	PK
	14472	31.51	49.78	18.27	74.00	24.22	H	PK
	16884	29.91	53.82	23.91	74.00	20.18	H	PK
	4824	37.56	44.81	7.25	54.00	9.19	H	AV
	7236	31.34	45.47	14.13	54.00	8.53	H	AV
	9648	22.94	37.59	14.65	54.00	16.41	H	AV

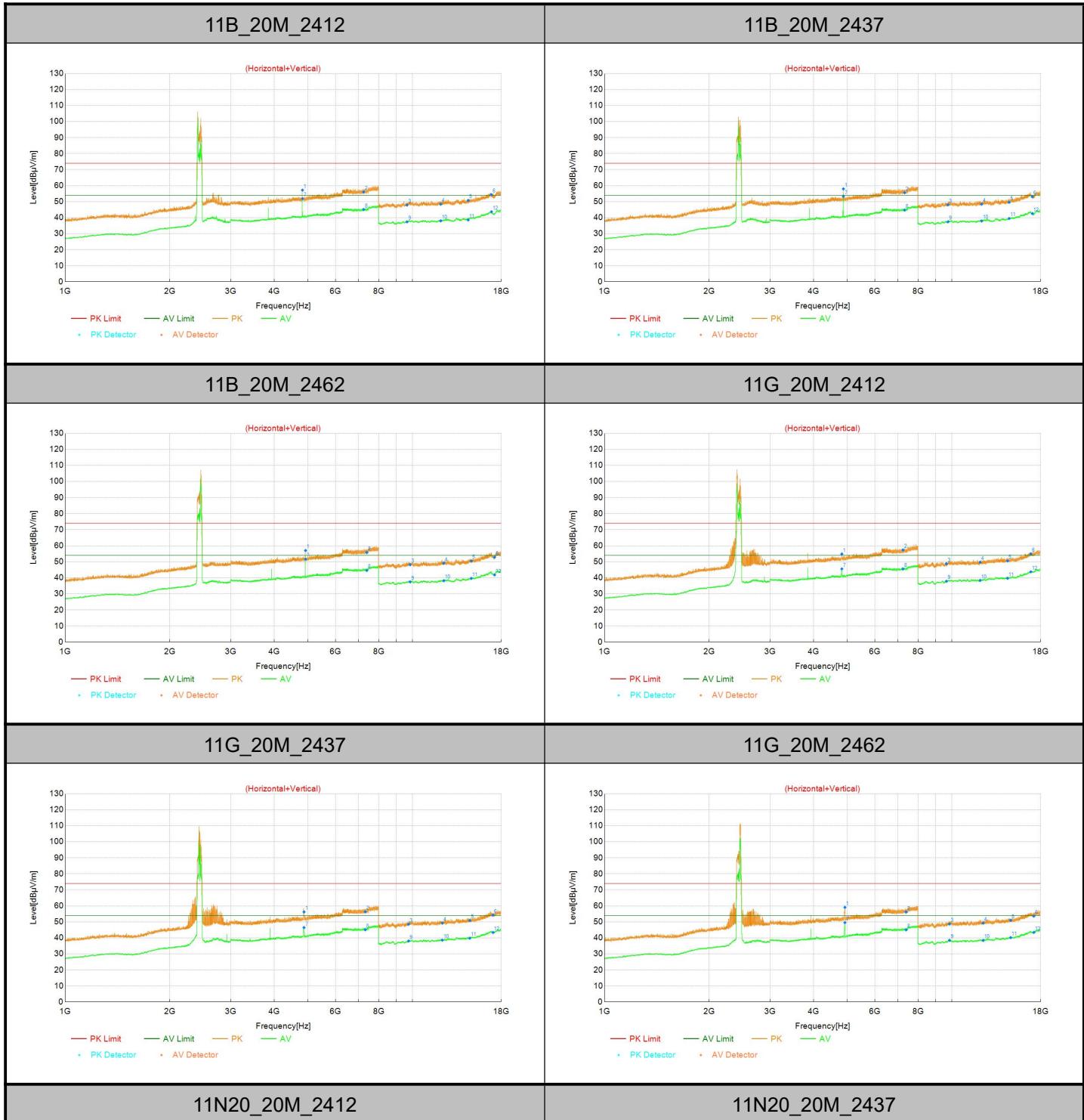
11N20_20M_2437	12060	22.38	38.41	16.03	54.00	15.59	V	AV
	14472	20.56	38.83	18.27	54.00	15.17	H	AV
	16884	19.78	43.69	23.91	54.00	10.31	H	AV
	4874	49.68	57.01	7.33	74.00	16.99	H	PK
	7311	41.72	55.41	13.69	74.00	18.59	V	PK
	9748	33.55	48.47	14.92	74.00	25.53	V	PK
	12185	33.22	48.84	15.62	74.00	25.16	H	PK
	14622	32.15	50.56	18.41	74.00	23.44	H	PK
	17059	29.30	53.88	24.58	74.00	20.12	H	PK
	4874	38.84	46.17	7.33	54.00	7.83	H	AV
	7311	31.24	44.93	13.69	54.00	9.07	H	AV
	9748	23.04	37.96	14.92	54.00	16.04	V	AV
11N20_20M_2462	12185	22.80	38.42	15.62	54.00	15.58	V	AV
	14622	21.29	39.70	18.41	54.00	14.30	V	AV
	17059	18.51	43.09	24.58	54.00	10.91	H	AV
	4924	50.27	58.19	7.92	74.00	15.81	H	PK
	7386	42.53	56.49	13.96	74.00	17.51	V	PK
	9848	33.28	48.41	15.13	74.00	25.59	H	PK
	12310	33.49	49.57	16.08	74.00	24.43	V	PK
	14772	31.60	50.06	18.46	74.00	23.94	V	PK
	17234	29.81	53.82	24.01	74.00	20.18	V	PK
	4924	41.24	49.16	7.92	54.00	4.84	H	AV
	7386	30.86	44.82	13.96	54.00	9.18	H	AV
	9848	23.32	38.45	15.13	54.00	15.55	H	AV
11N40_40M_2422	12310	22.22	38.30	16.08	54.00	15.70	V	AV
	14772	21.51	39.97	18.46	54.00	14.03	H	AV
	17234	18.88	42.89	24.01	54.00	11.11	H	AV
	4844	46.71	54.40	7.69	74.00	19.60	H	PK
	7266	42.23	56.61	14.38	74.00	17.39	H	PK

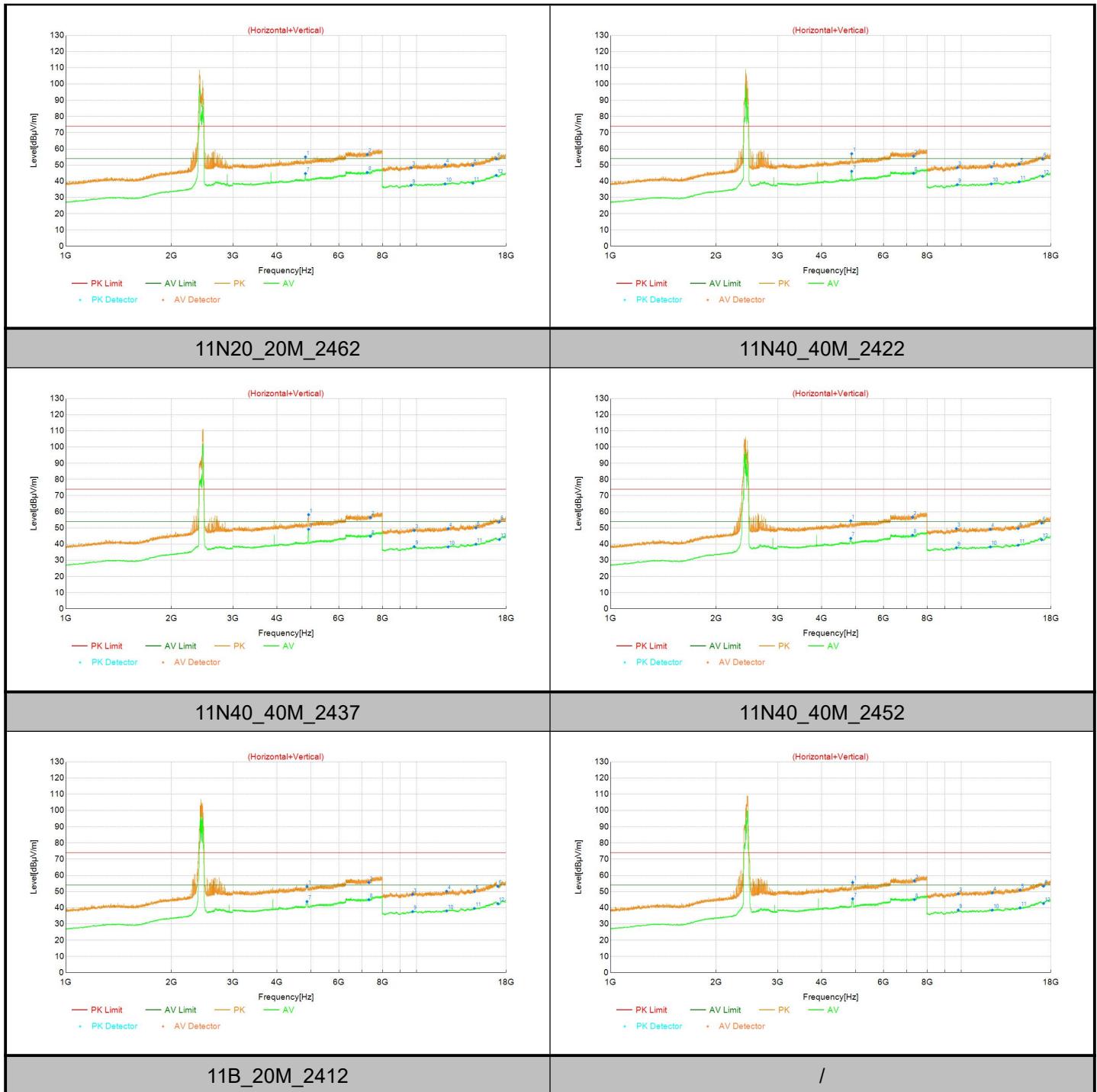
11N40_40M_2437	9688	35.01	49.60	14.59	74.00	24.40	V	PK
	12110	33.12	49.23	16.11	74.00	24.77	H	PK
	14532	31.38	49.67	18.29	74.00	24.33	H	PK
	16954	28.58	53.02	24.44	74.00	20.98	H	PK
	4844	35.89	43.58	7.69	54.00	10.42	H	AV
	7266	31.13	45.51	14.38	54.00	8.49	V	AV
	9688	23.19	37.78	14.59	54.00	16.22	V	AV
	12110	22.19	38.30	16.11	54.00	15.70	H	AV
	14532	21.05	39.34	18.29	54.00	14.66	H	AV
	16954	18.29	42.73	24.44	54.00	11.27	H	AV
11N40_40M_2452	4874	45.74	53.07	7.33	74.00	20.93	H	PK
	7311	41.89	55.58	13.69	74.00	18.42	H	PK
	9748	33.31	48.23	14.92	74.00	25.77	V	PK
	12185	34.60	50.22	15.62	74.00	23.78	H	PK
	14622	31.62	50.03	18.41	74.00	23.97	V	PK
	17059	28.72	53.30	24.58	74.00	20.70	H	PK
	4874	36.53	43.86	7.33	54.00	10.14	H	AV
	7311	31.34	45.03	13.69	54.00	8.97	V	AV
	9748	22.72	37.64	14.92	54.00	16.36	H	AV
	12185	22.47	38.09	15.62	54.00	15.91	V	AV
11N40_40M_2452	14622	21.21	39.62	18.41	54.00	14.38	V	AV
	17059	17.97	42.55	24.58	54.00	11.45	V	AV
	4904	47.76	55.65	7.89	74.00	18.35	H	PK
	7356	42.32	56.59	14.27	74.00	17.41	H	PK
	9808	33.42	48.66	15.24	74.00	25.34	H	PK
	12260	33.42	49.24	15.82	74.00	24.76	V	PK
	14712	32.39	50.92	18.53	74.00	23.08	H	PK
11N40_40M_2452	17164	29.33	53.33	24.00	74.00	20.67	V	PK
	4904	37.66	45.55	7.89	54.00	8.45	H	AV

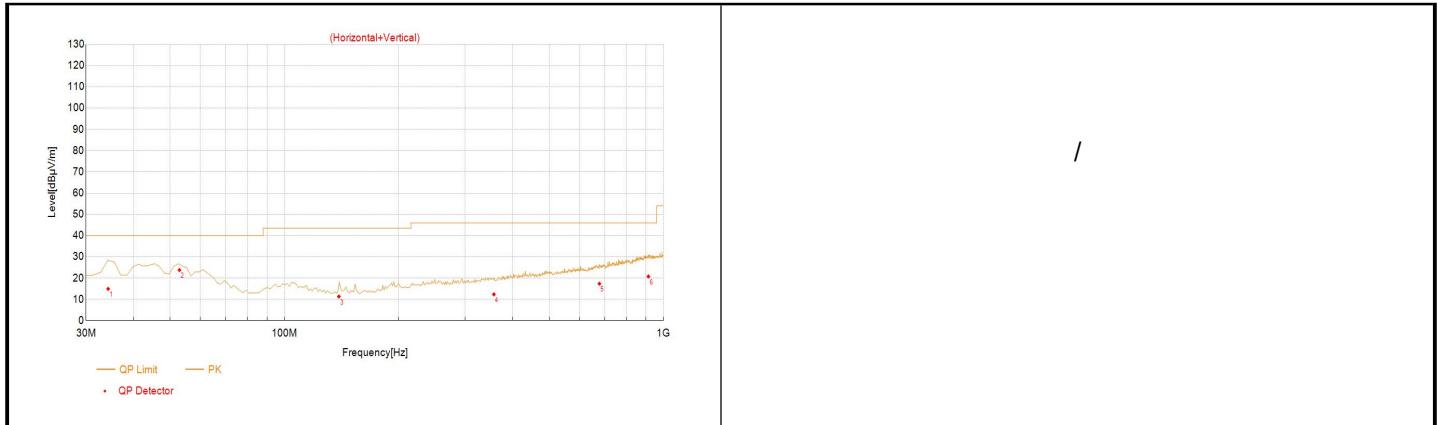
	7356	30.80	45.07	14.27	54.00	8.93	V	AV
	9808	23.36	38.60	15.24	54.00	15.40	V	AV
	12260	22.77	38.59	15.82	54.00	15.41	V	AV
	14712	21.44	39.97	18.53	54.00	14.03	H	AV
	17164	18.66	42.66	24.00	54.00	11.34	H	AV

Data List								
Test Mode	Frequency [MHz]	Reading [dB μ V]	Level [dB μ V/m]	Factor [dB/m]	Limit [dB μ V/m]	Margin [dB]	Pol.	Det
11B_20M_2412	34.291191	32.86	14.96	-17.90	40.00	25.04	V	QP
	52.880254	38.94	23.80	-15.14	40.00	16.20	V	QP
	139.294674	31.48	11.36	-20.12	43.50	32.14	V	QP
	357.088225	24.62	12.37	-12.25	46.00	33.63	H	QP
	677.699964	24.58	17.38	-7.20	46.00	28.62	H	QP
	912.90308	23.32	20.78	-2.54	46.00	25.22	V	QP

Test Graphs_Spurious Emission







ANNEX C: The EUT Appearance

The EUT Appearance (internal and external photographs) are submitted separately.

ANNEX D: Test Setup Photograph

The Test Setup Photographs are submitted separately.