



FCC RF Test Report

APPLICANT : Amazon.com Services LLC
EQUIPMENT : Digital Media Receiver
MODEL NAME : C2N6L4
FCC ID : 2A4DH-0821
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 01, 2022 ~ Jul. 14, 2022

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia



Approved by: Jason Jia

Sporton International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 30\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.01 dB at 2487.040 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 21.96 dB at 0.401 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Remark: Not required means after assessing, test items are not necessary to carry out.

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Amazon.com Services LLC
410 Terry Avenue N Seattle, WA 98109-5210 United States

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	C2N6L4
FCC ID	2A4DH-0821

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum (Average) Output Power to antenna	802.11b : 17.40 dBm (0.0550 W) 802.11g : 17.40 dBm (0.0550 W) 802.11n HT20 : 17.50 dBm (0.0562 W)
99% Occupied Bandwidth	802.11b : 13.44MHz 802.11g : 16.73MHz 802.11n HT20 : 17.68MHz
Antenna Type / Gain	PIFA Antenna type with gain 4.60 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



1.5 Testing Location

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ TH01-SZ	CN1256	421272

Test Firm	Sporton International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b



1.7 Applicable 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.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

- b. AC power line Conducted Emission was tested under maximum output power.

2.1 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	12	2467
				13

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

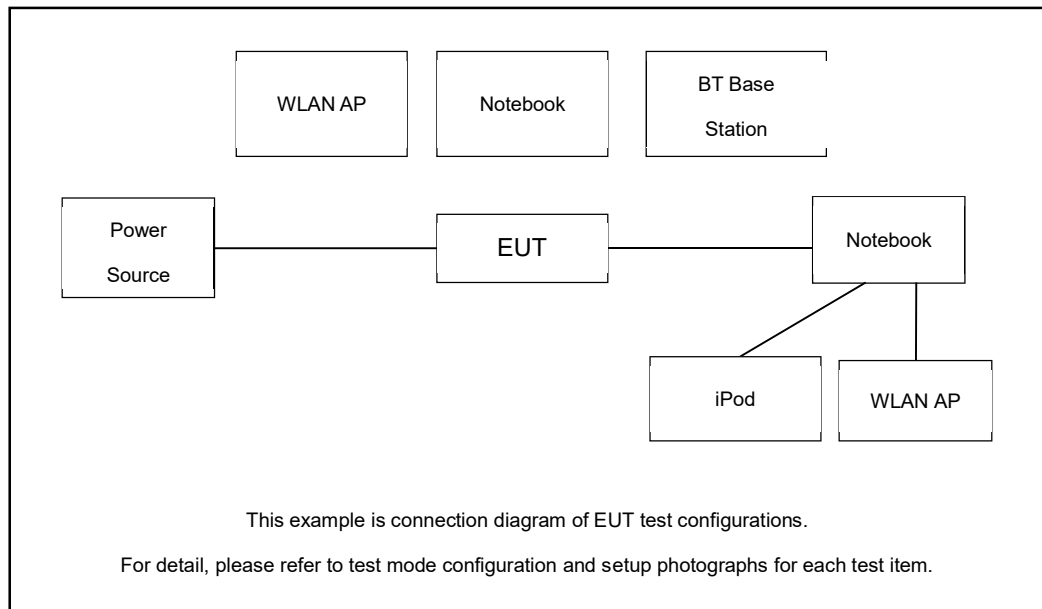
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :All Stress(CPU, DDR, NAND, all LEDs, Max Audio, Mic On) + NB+Bluetooth Link+ WLAN Link(2.4G)+ Adapter(Acbel US)

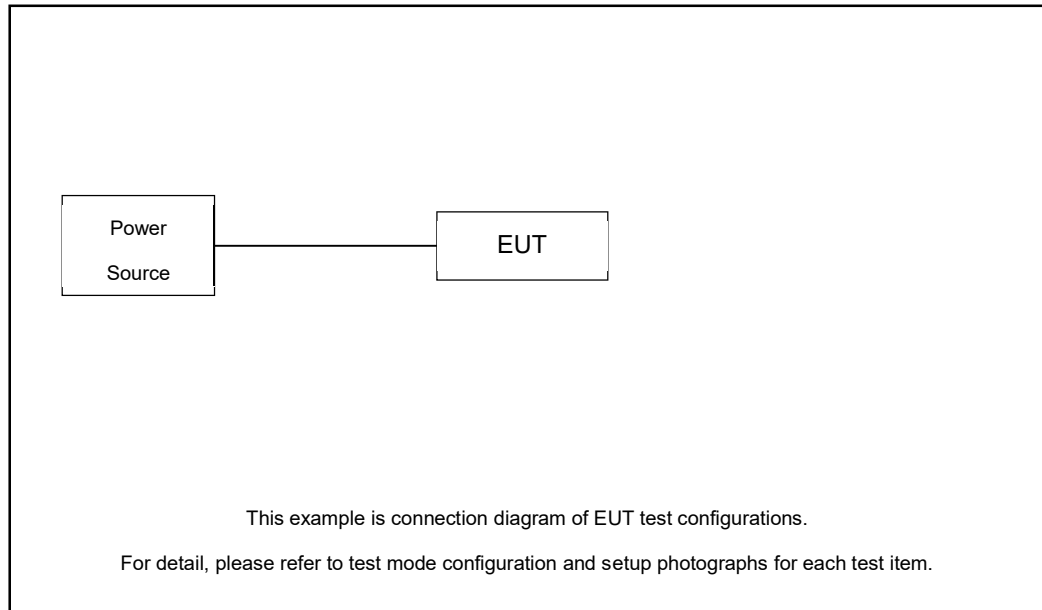
Simultaneous transmission
802.11b CH11(2462MHz) Tx + BLE(1M) CH11 Tx 802.11b CH08(2447MHz) Tx + BLE(1M) CH01 Tx 802.11b CH13(2472MHz) Tx + BLE(2M) CH39 Tx

2.3 Connection Diagram of Test System

For AC Conducted Emission:



For Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 2.7m with Core
2.	Notebook	Inspiron 15-7570	Fcc DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
3.	iPod	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A
4.	Base Station	R&S	CBT32	N/A	Unshielded, 1.8m

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program (compliance tool) was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 1.5 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.5 + 10 = 11.5 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

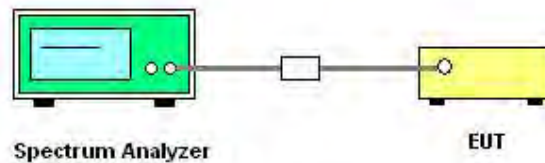
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
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) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

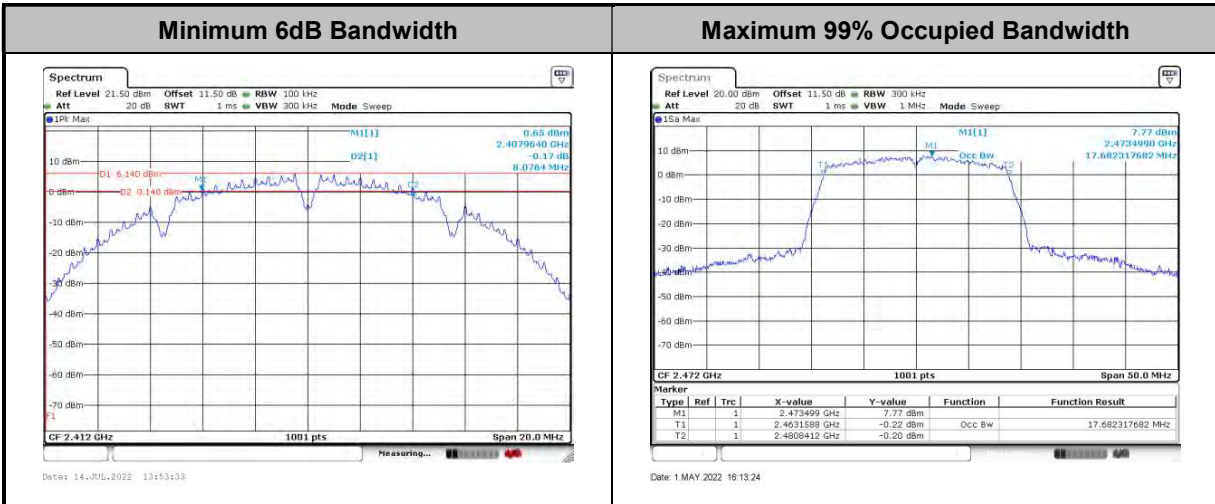
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the 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.

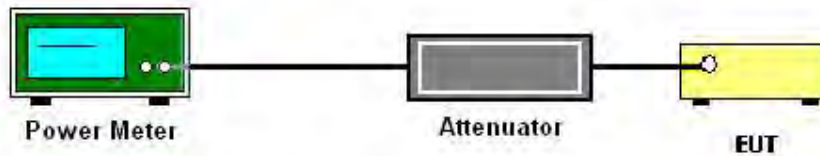
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter 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. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

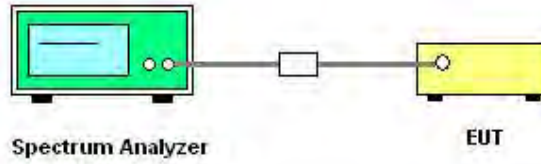
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

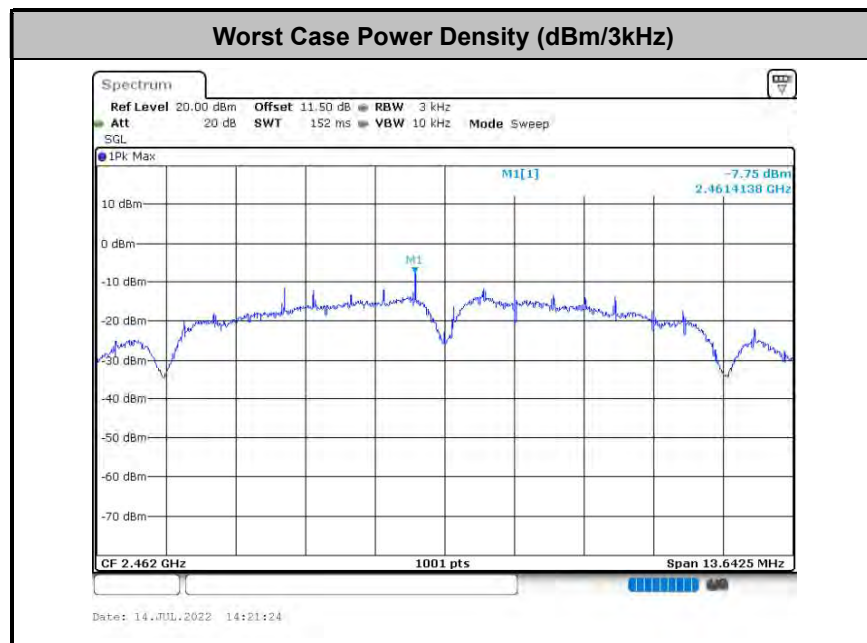
1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

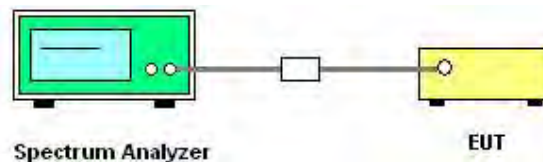
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

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 per 15.247(d).
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.

3.4.4 Test Setup



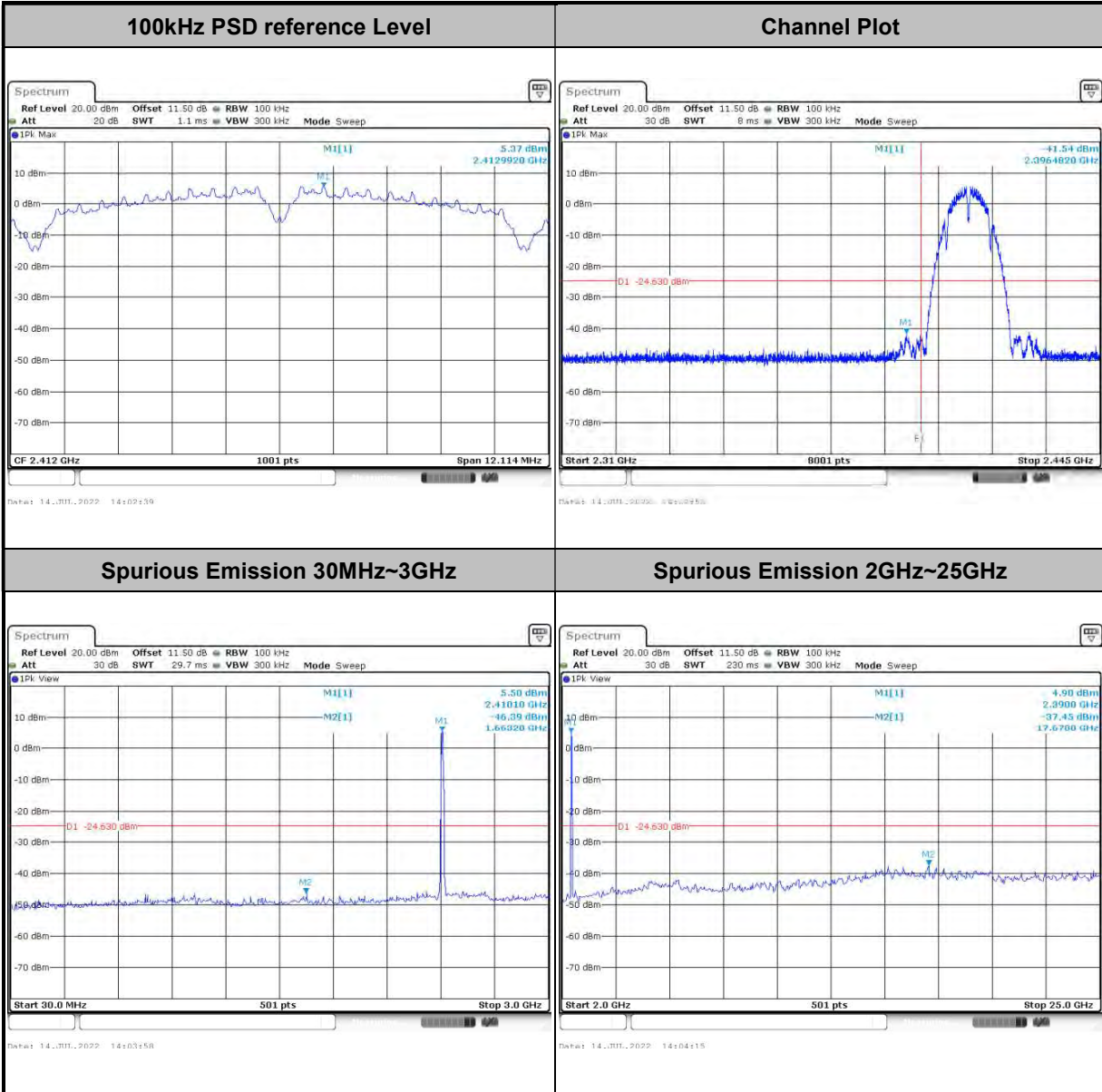


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Chen Hong	Temperature :	21~25°C
		Relative Humidity :	51~54%

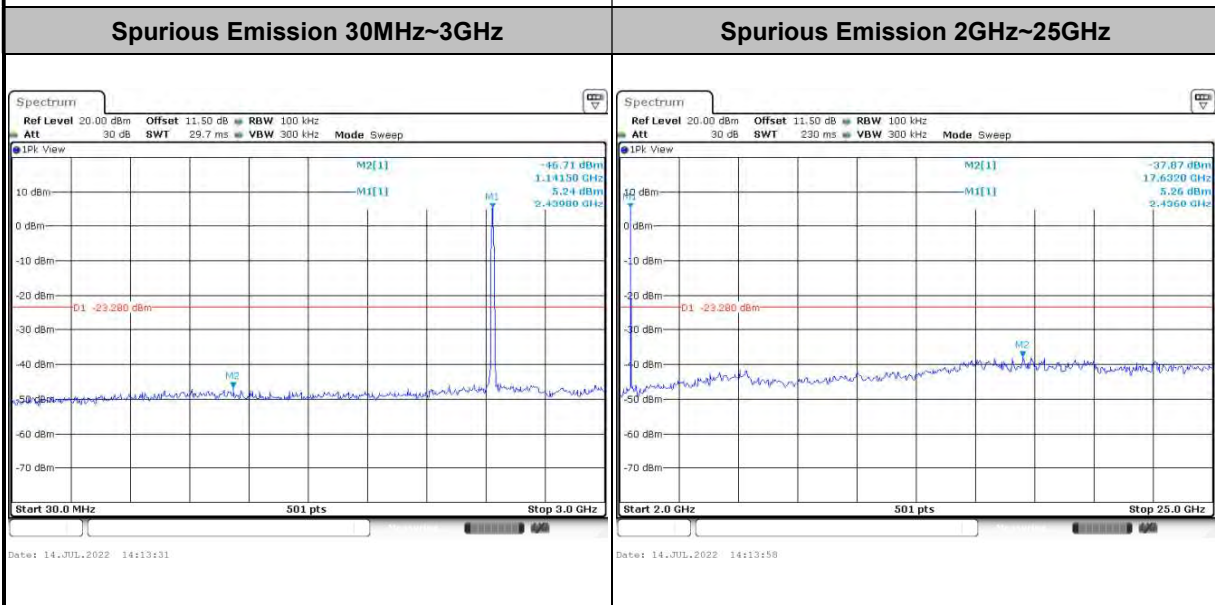
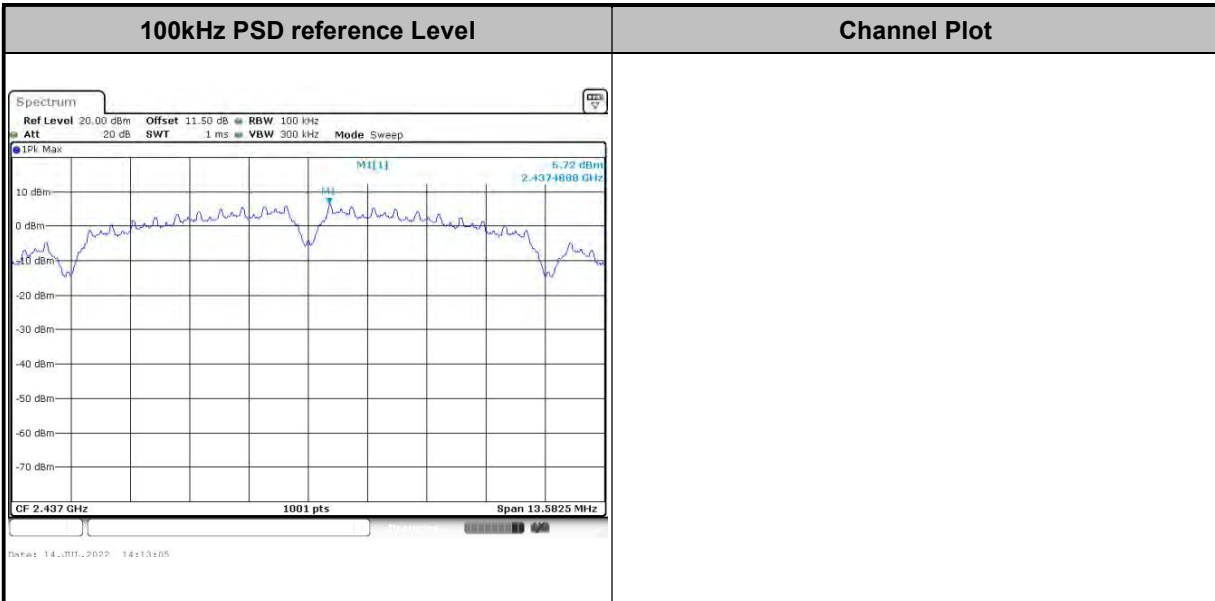
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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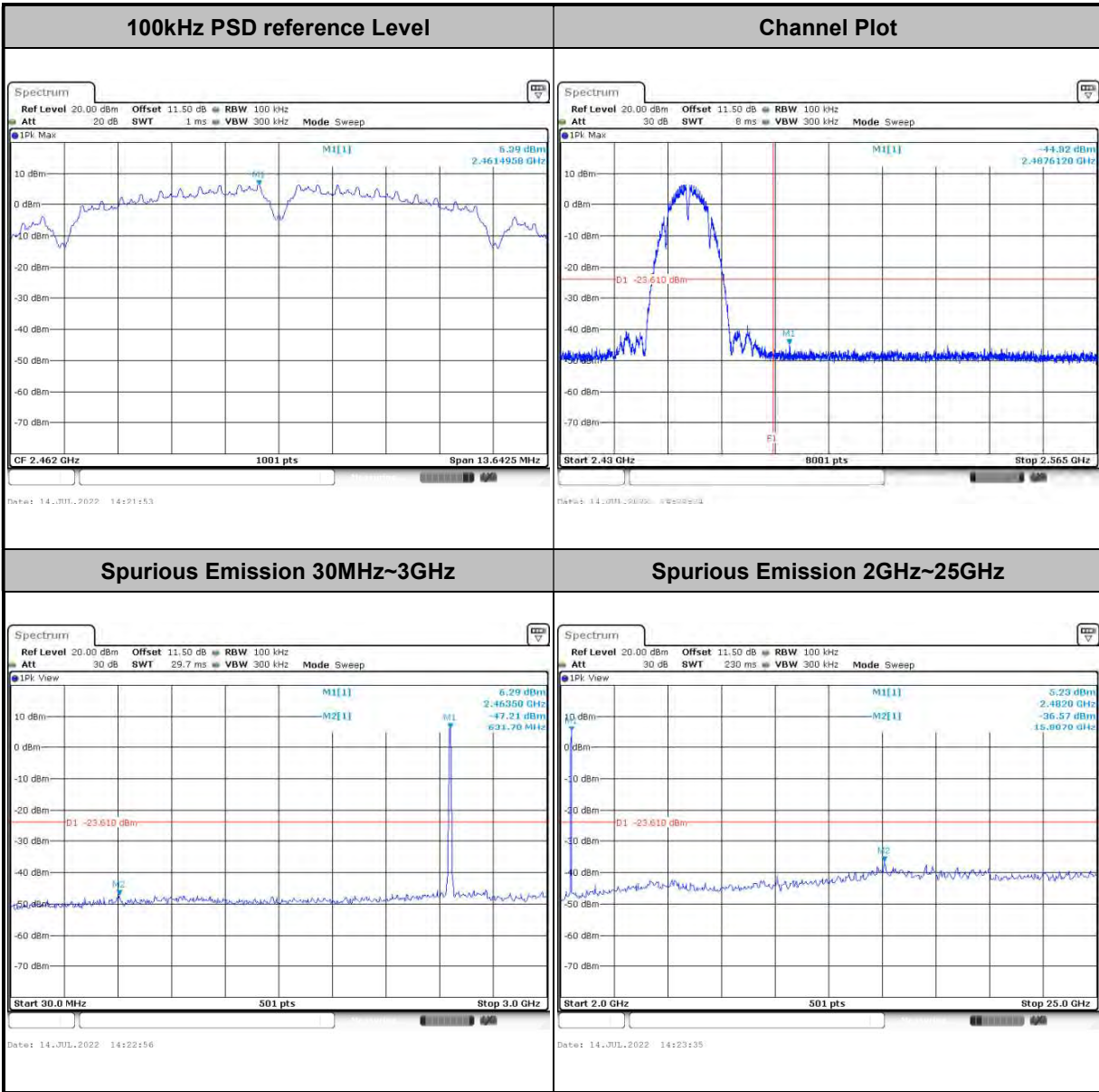


Test Mode :	802.11b	Test Channel :	06
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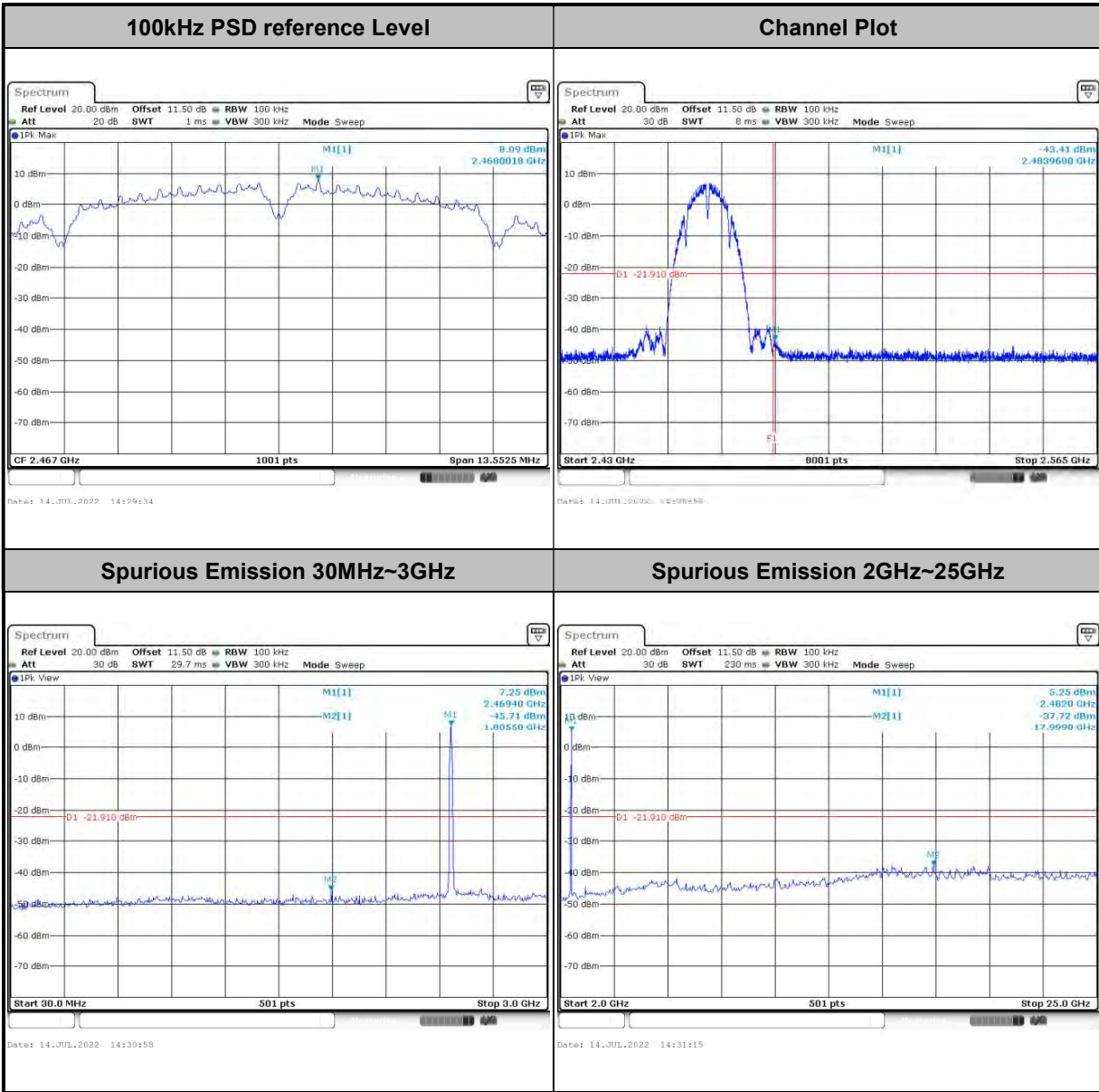


Test Mode :	802.11b	Test Channel :	11
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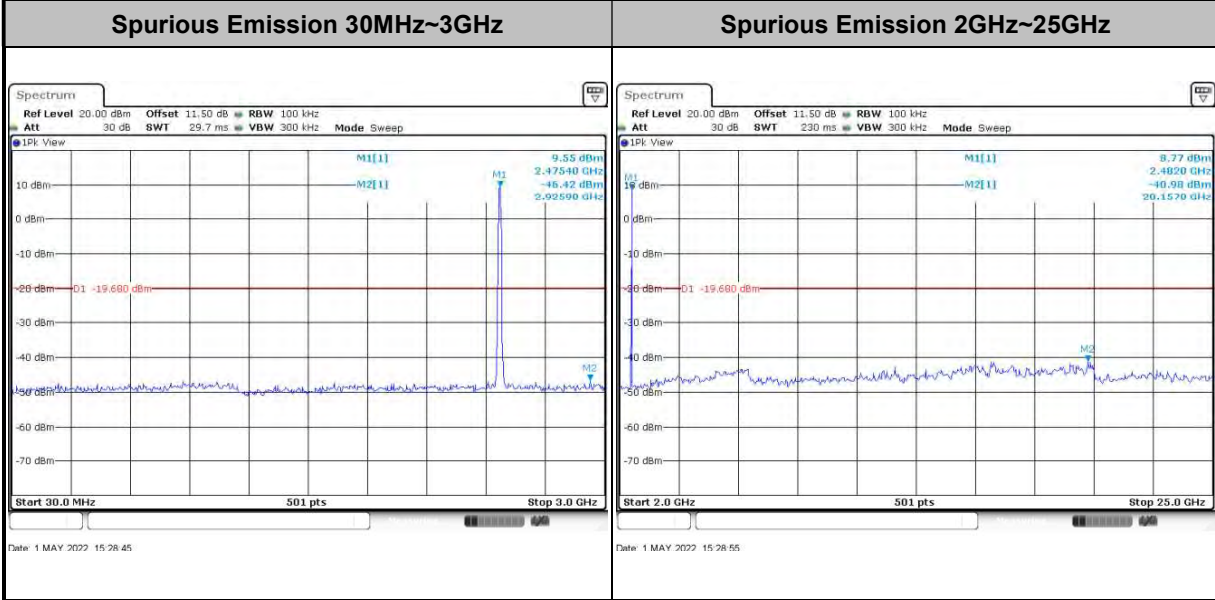
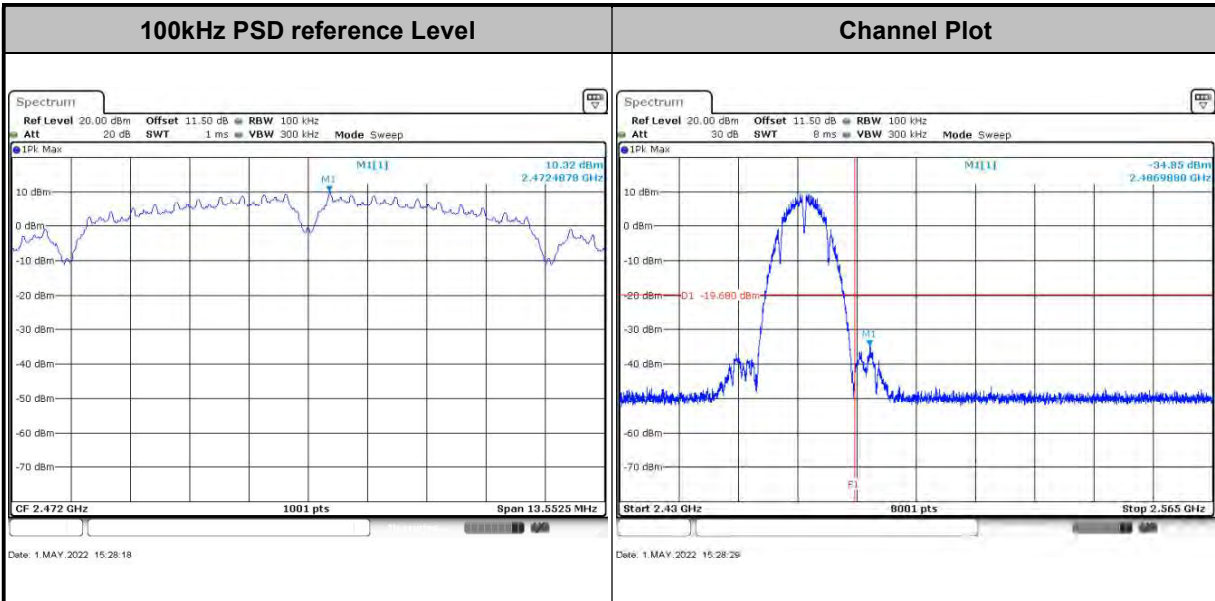


Test Mode :	802.11b	Test Channel :	12
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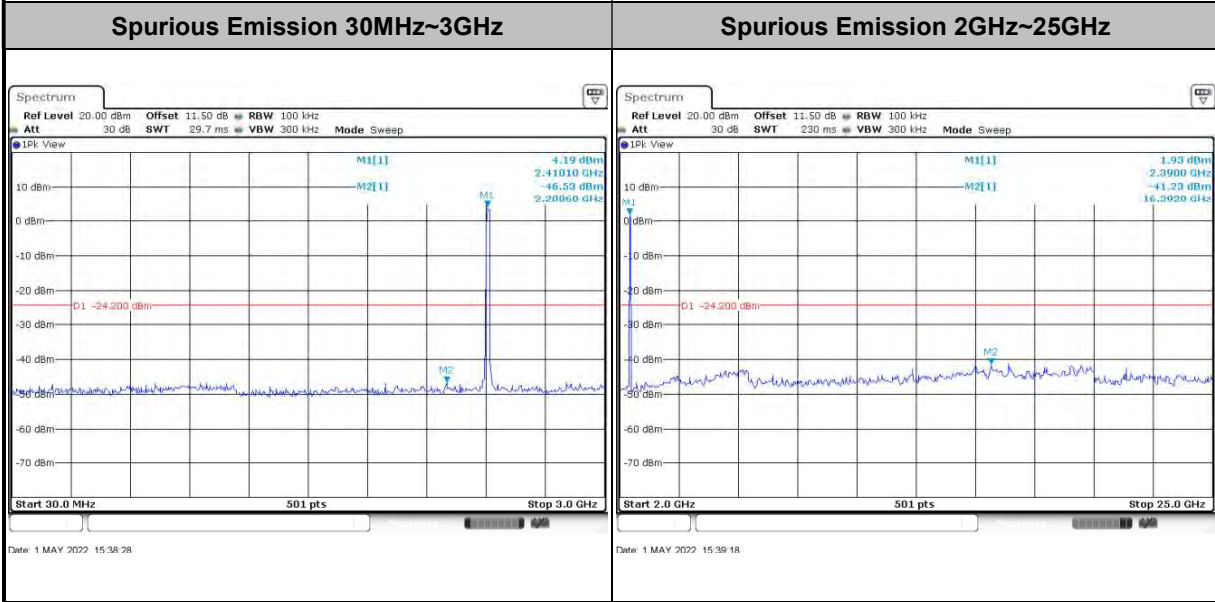
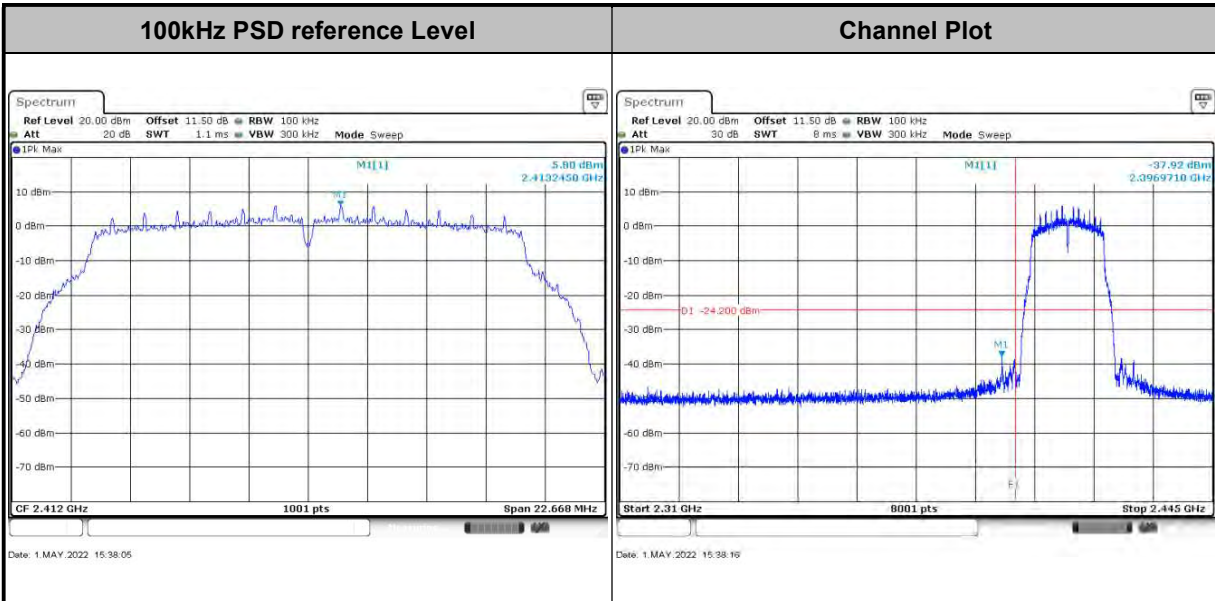


Test Mode :	802.11b	Test Channel :	13
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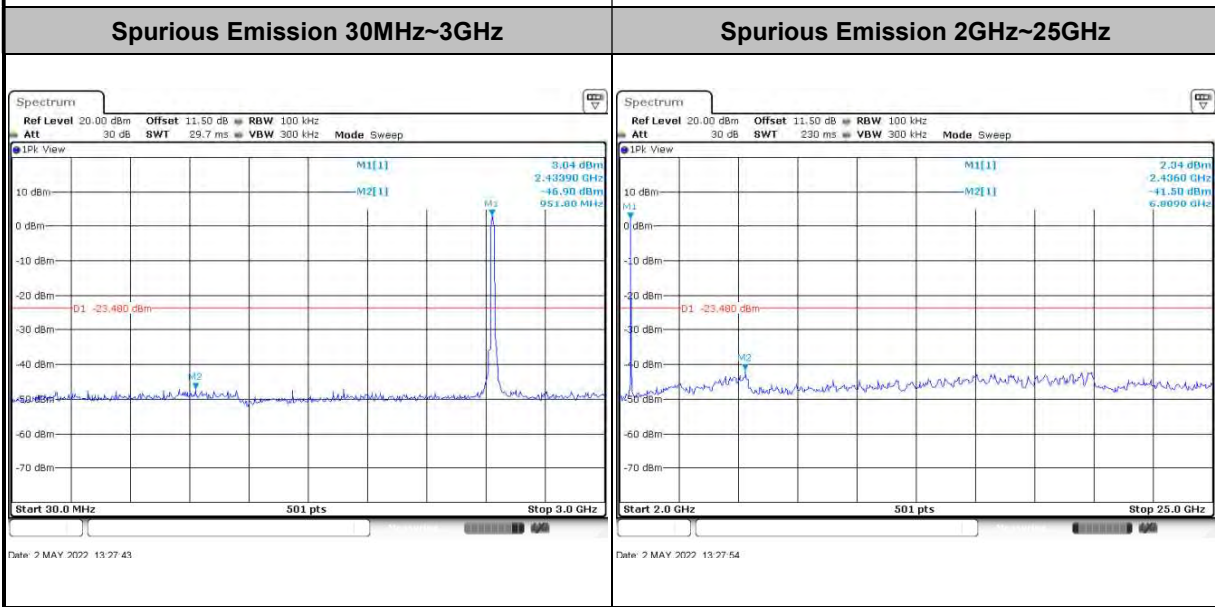
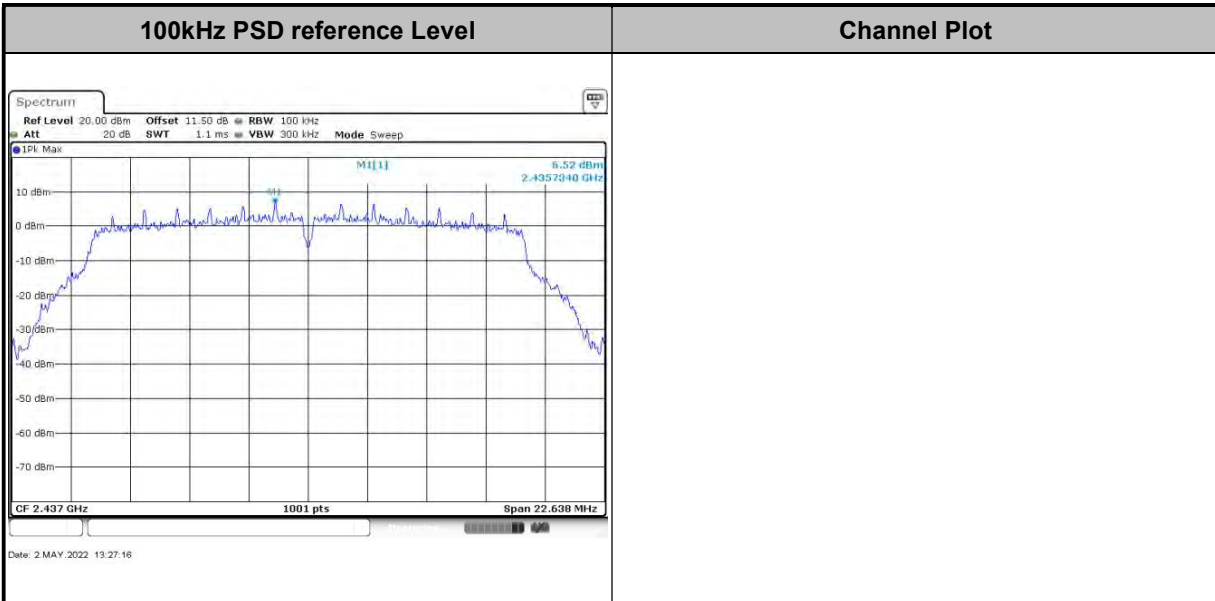


Test Mode :	802.11g	Test Channel :	01
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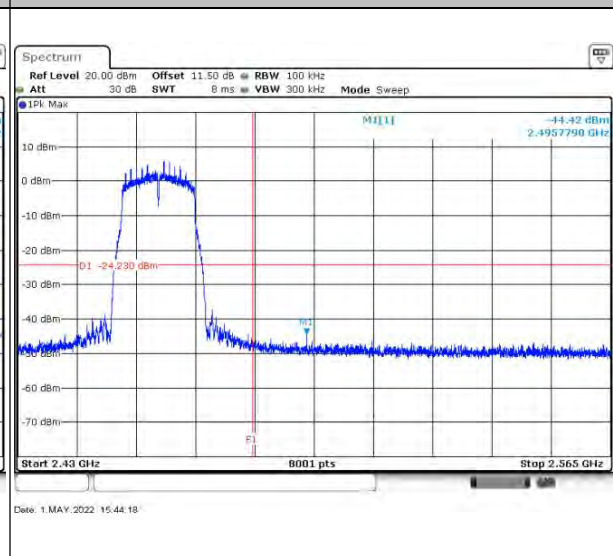
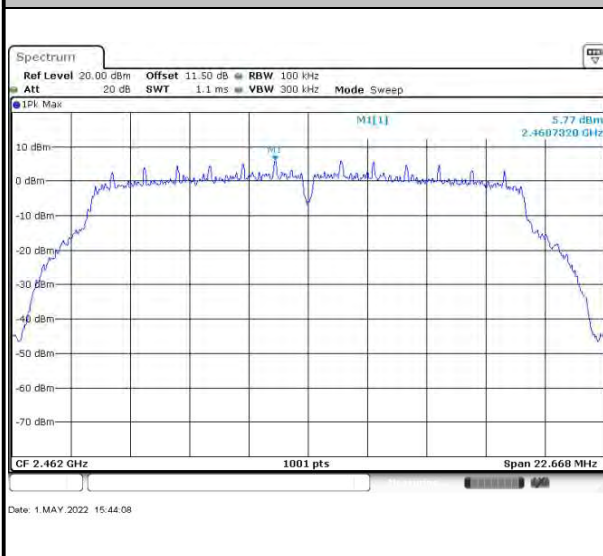
Test Mode :	802.11g	Test Channel :	06
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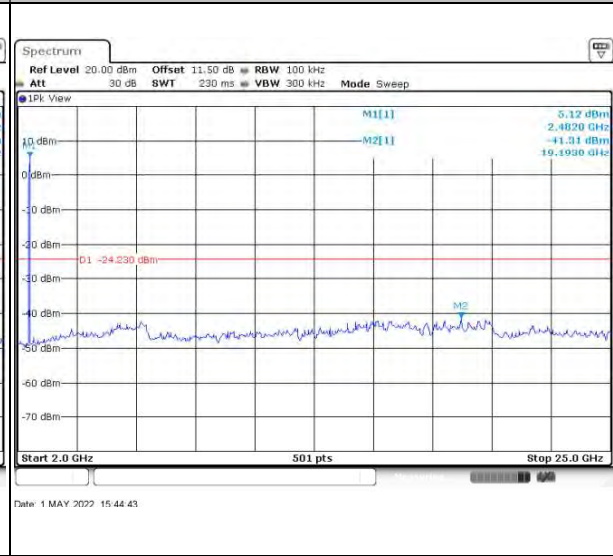
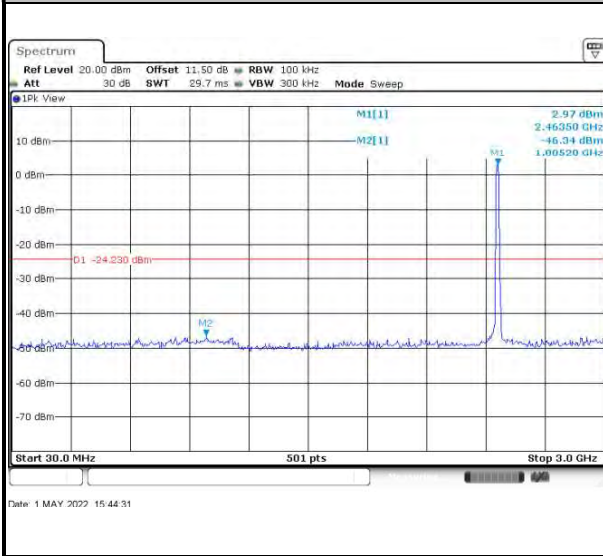


Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level	Channel Plot
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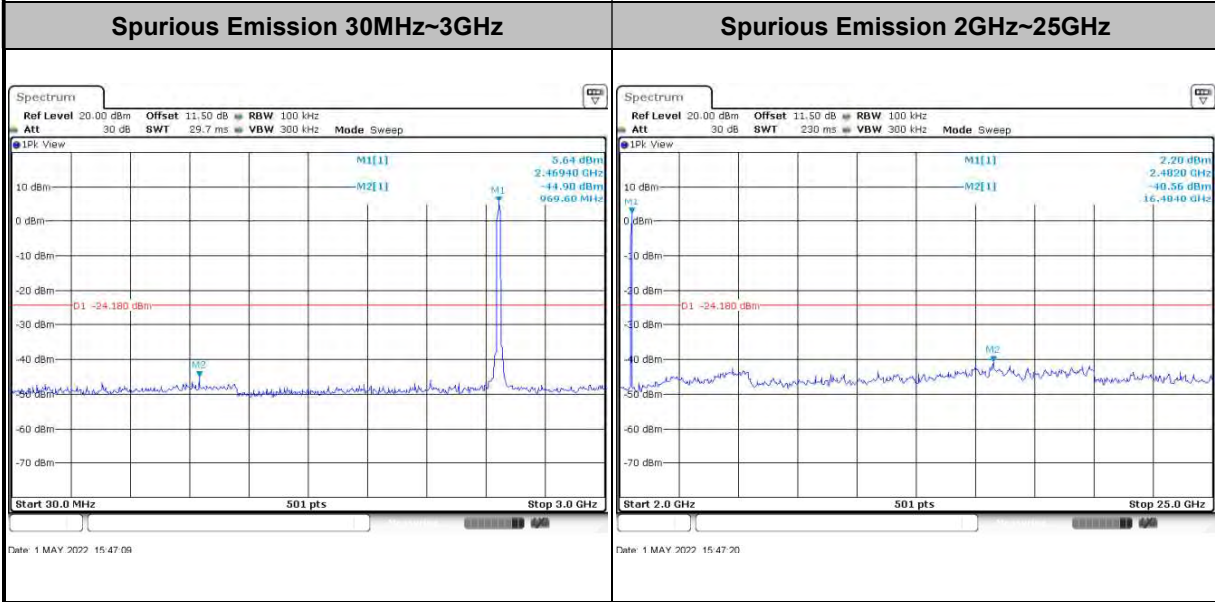
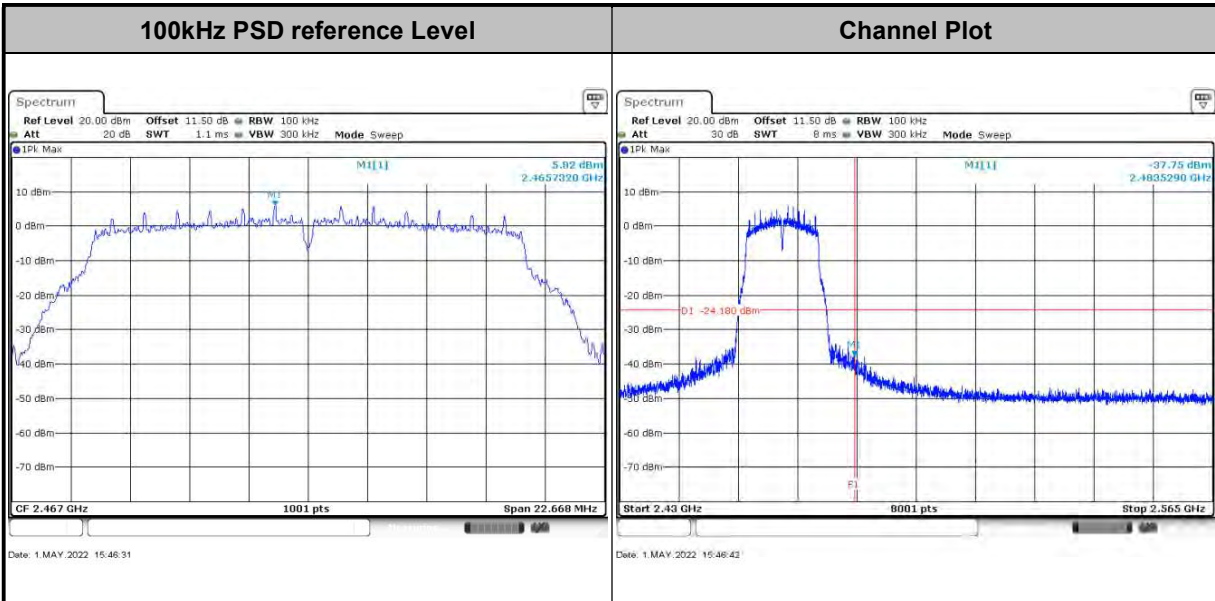


Spurious Emission kHz 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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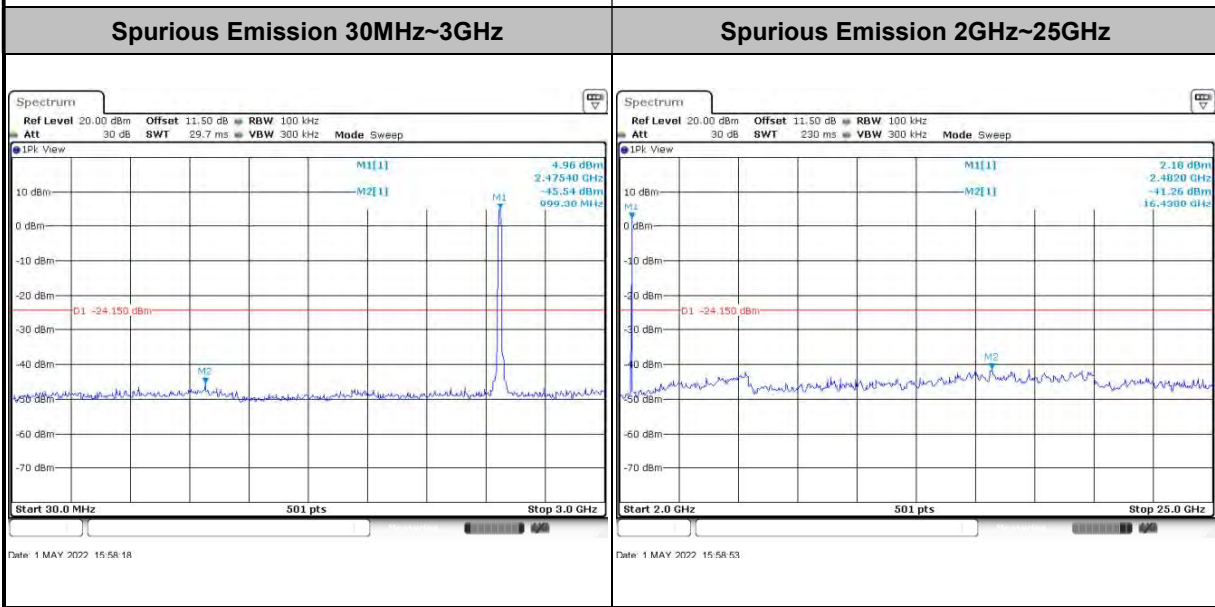
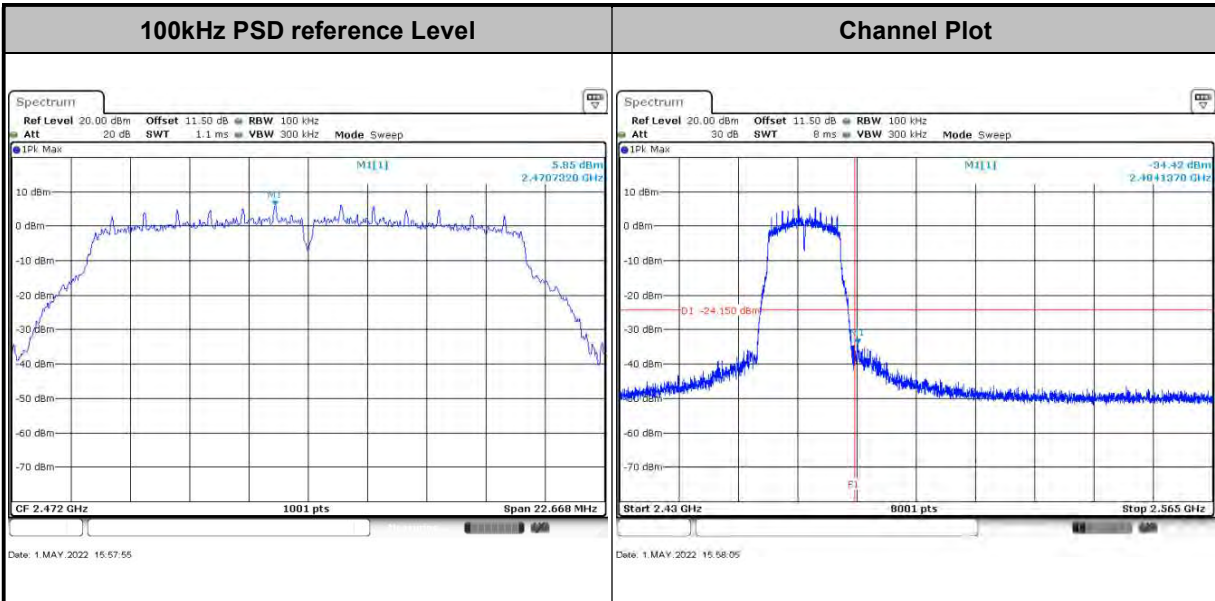


Test Mode :	802.11g	Test Channel :	12
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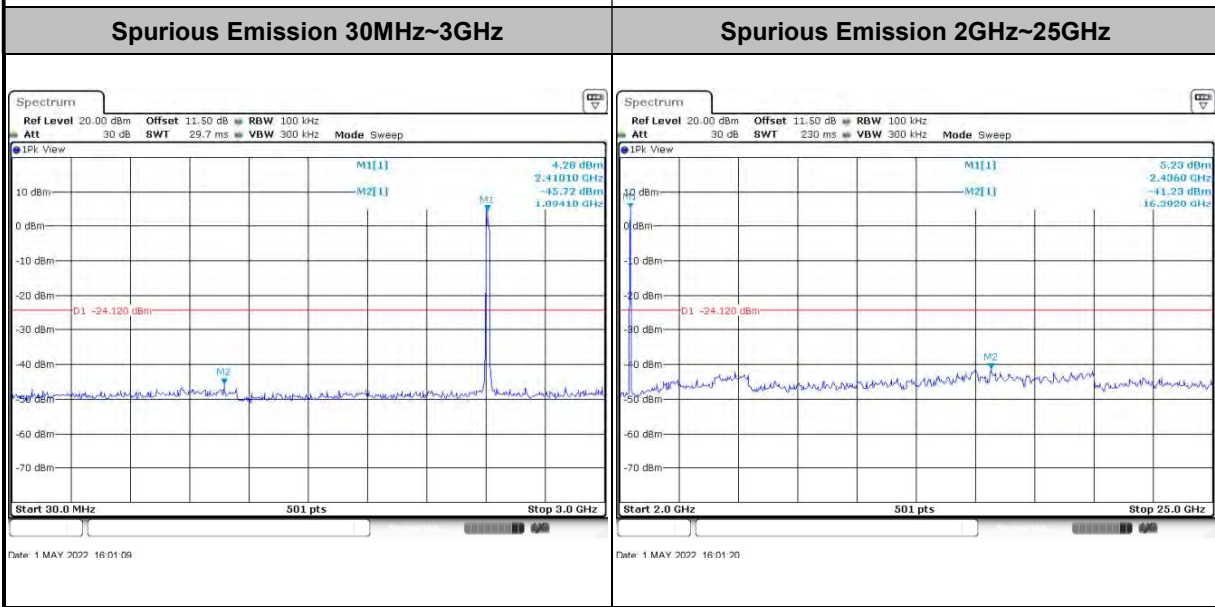
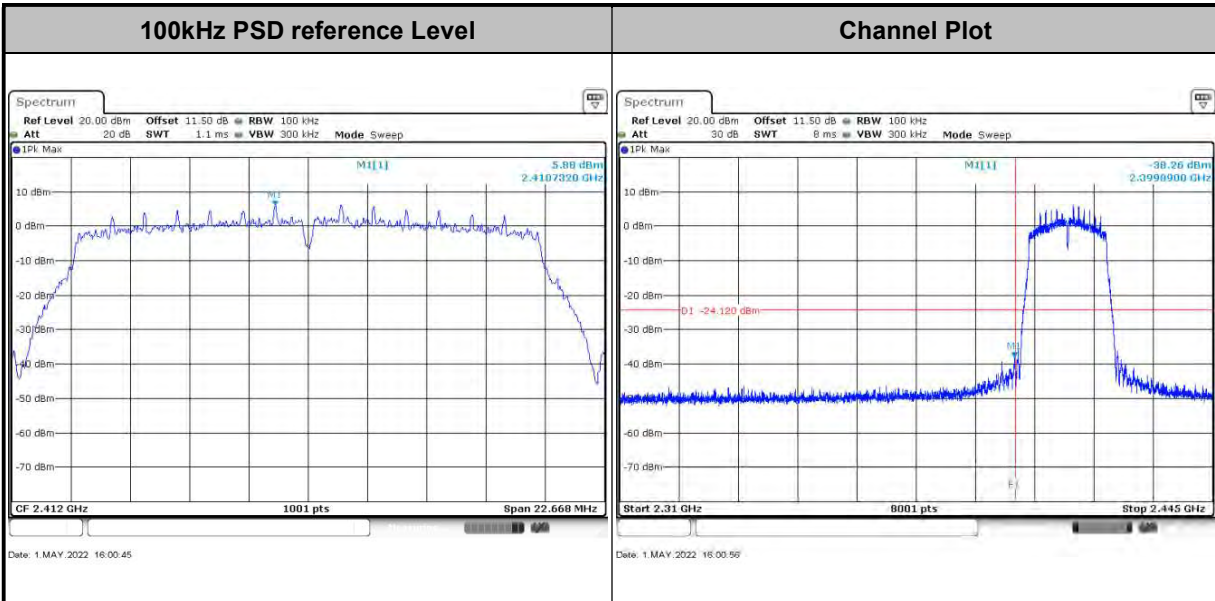


Test Mode :	802.11g	Test Channel :	13
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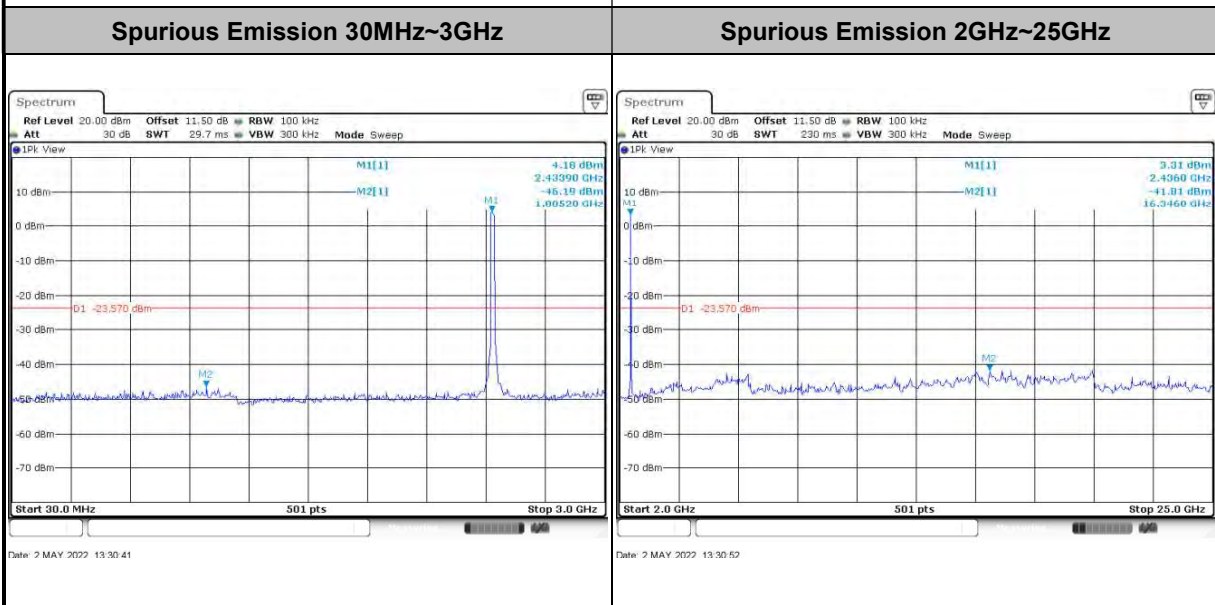
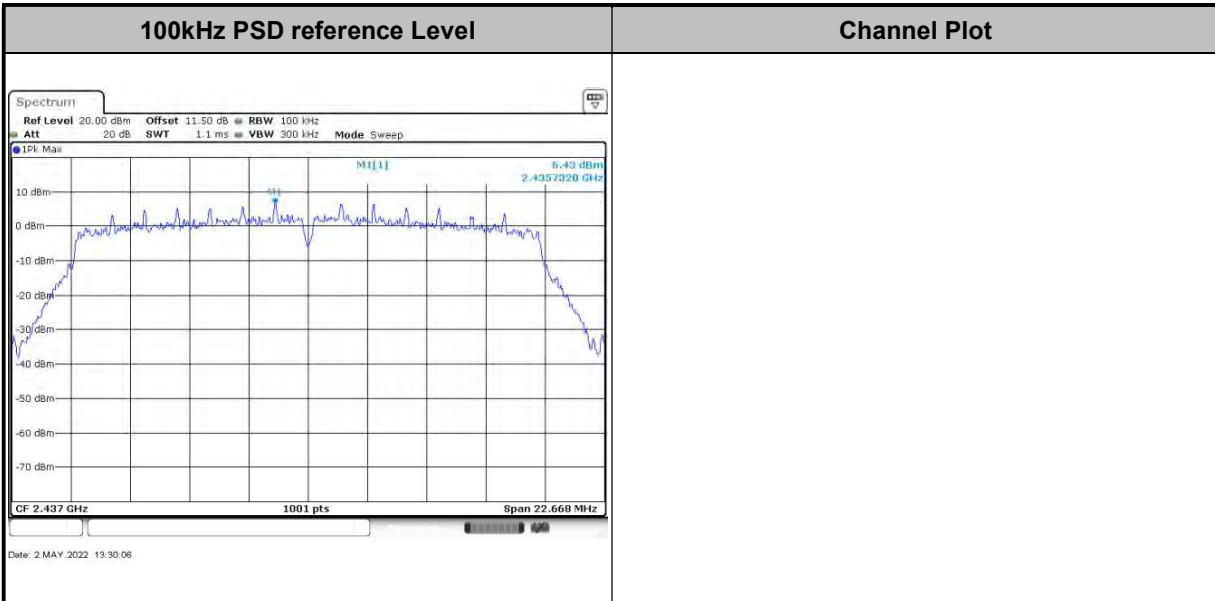


Test Mode :	802.11n HT20	Test Channel :	01
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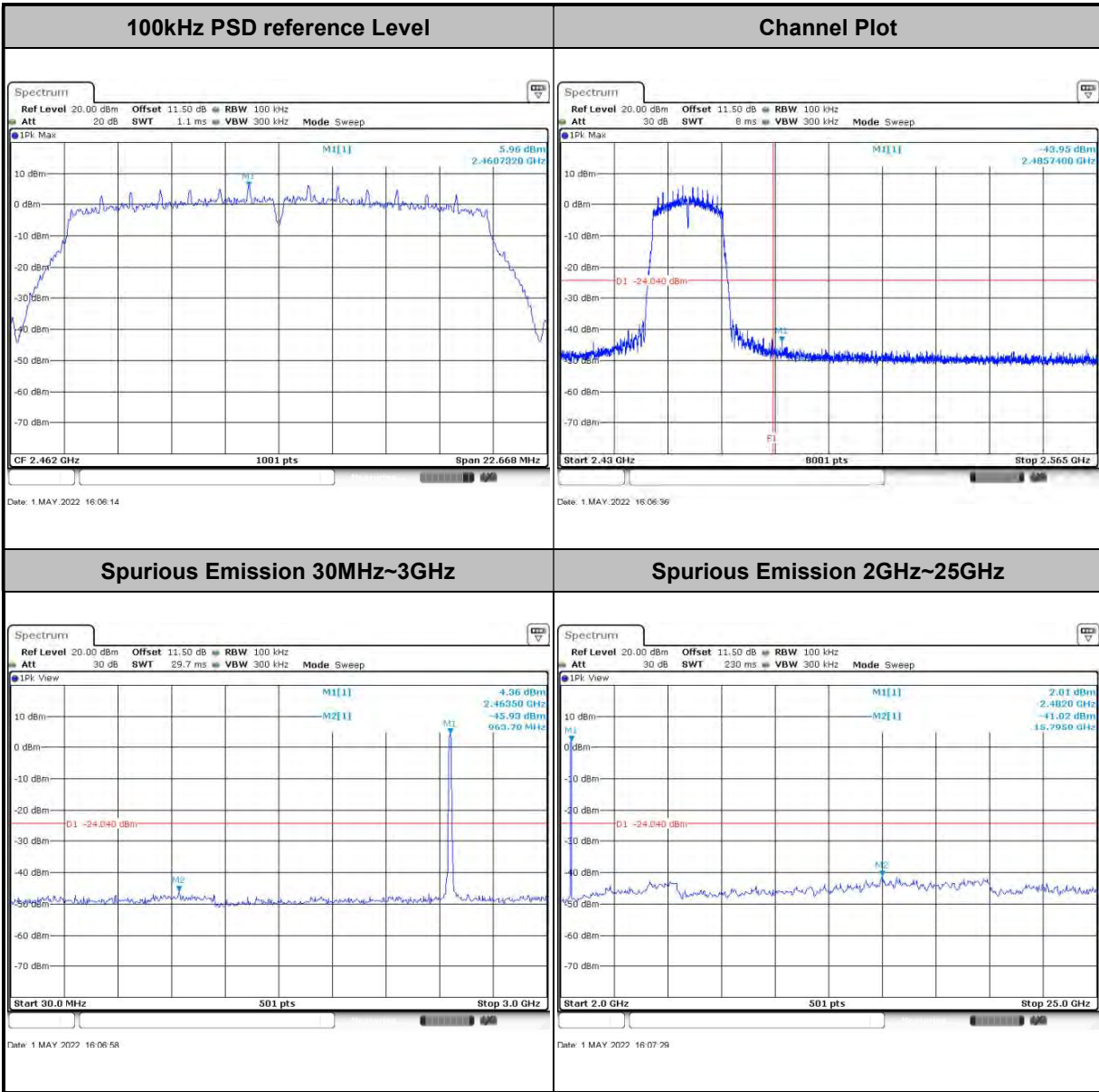


Test Mode :	802.11n HT20	Test Channel :	06
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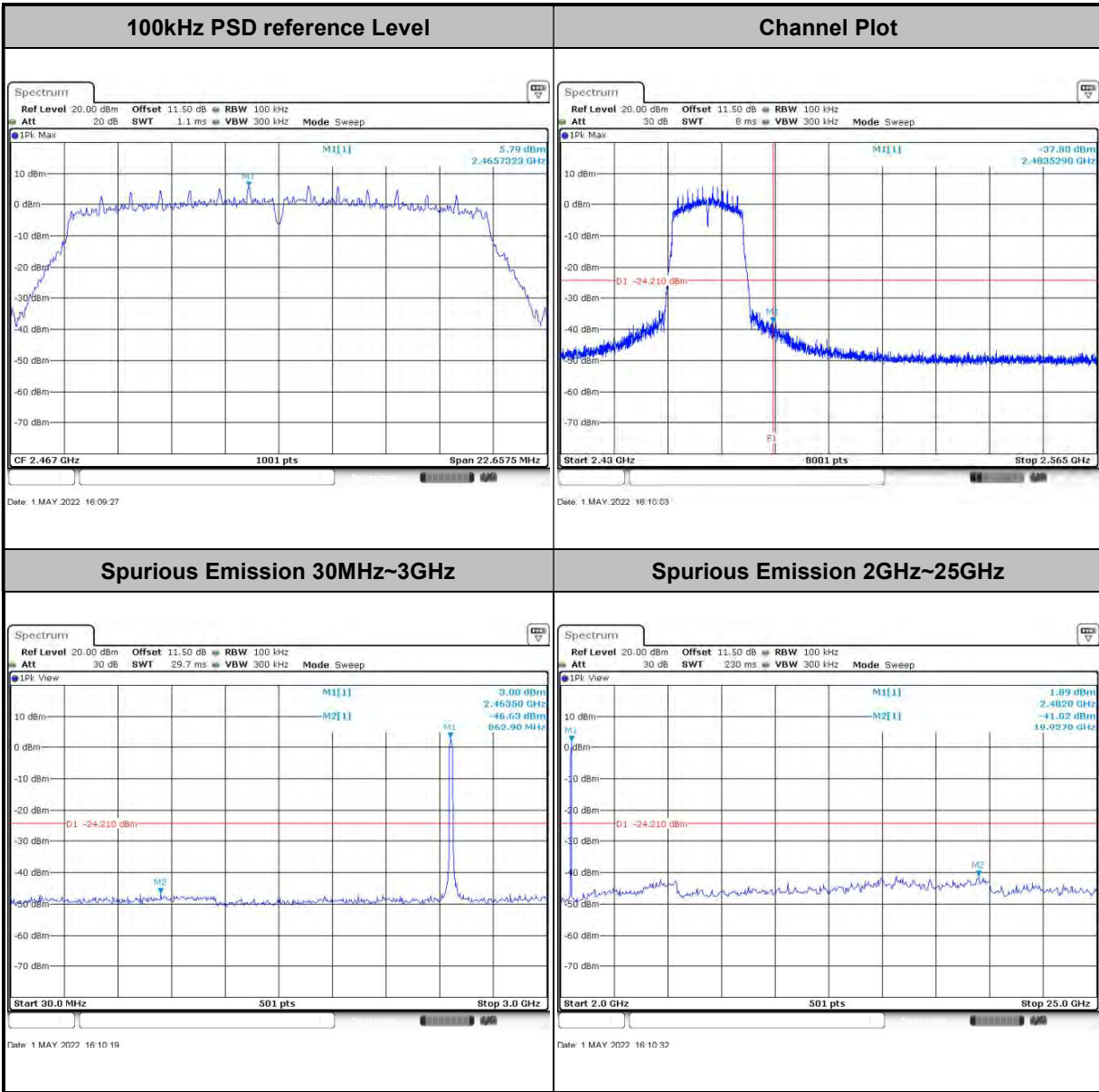


Test Mode :	802.11n HT20	Test Channel :	11
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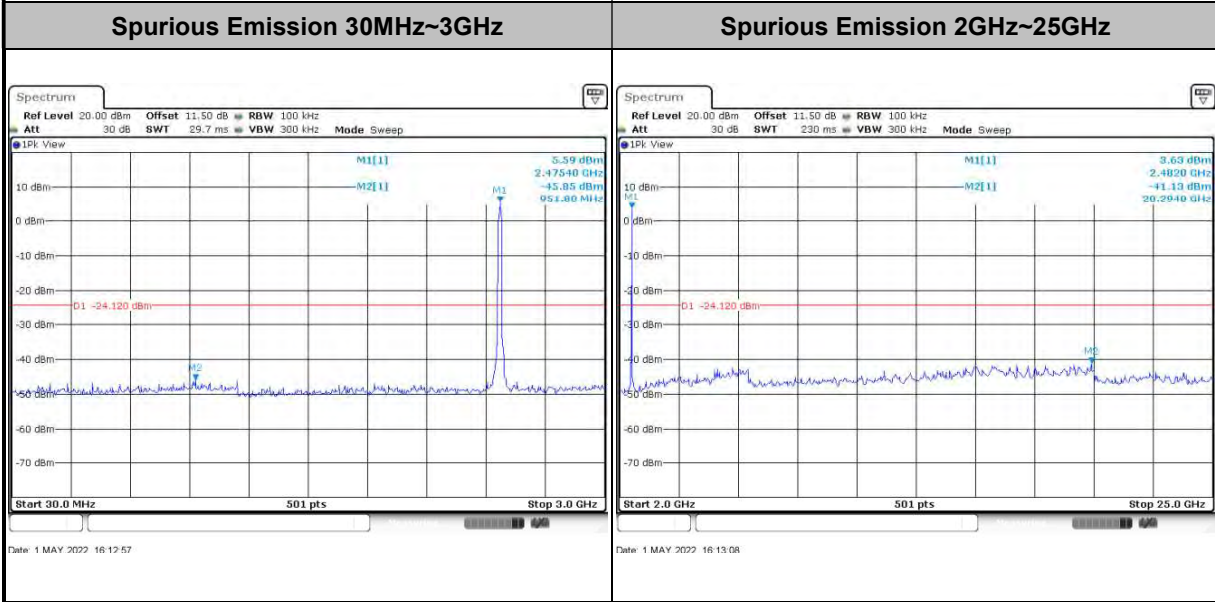
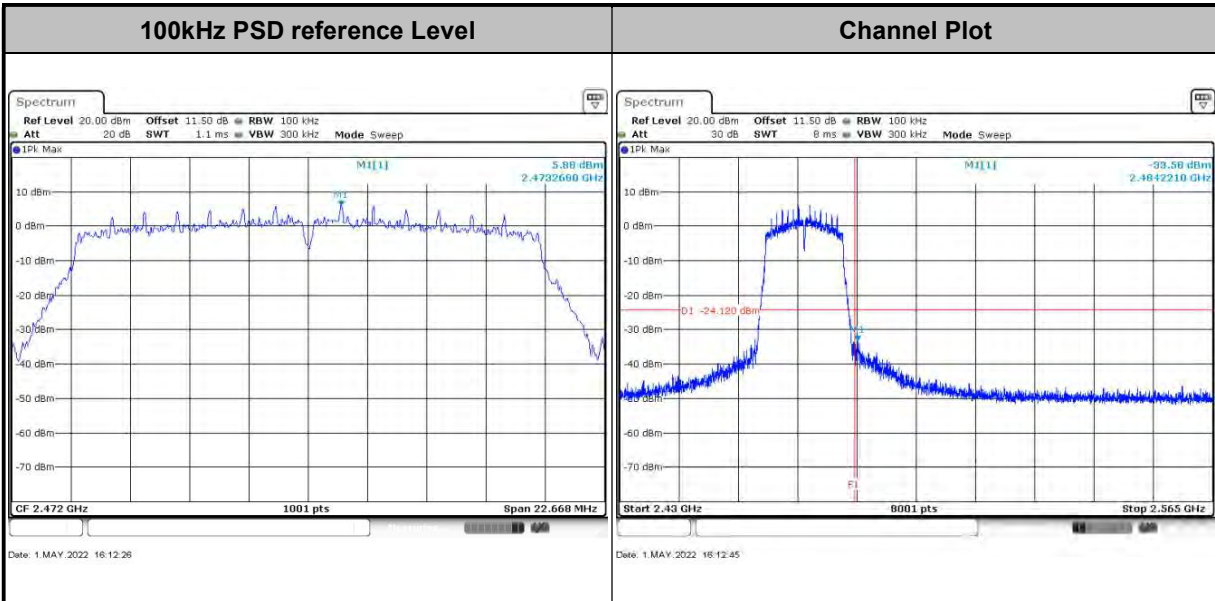


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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	3
Above 960	500	3

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

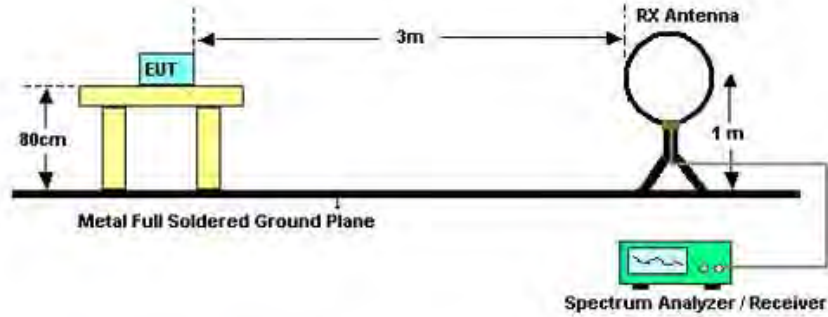


3.5.3 Test Procedures

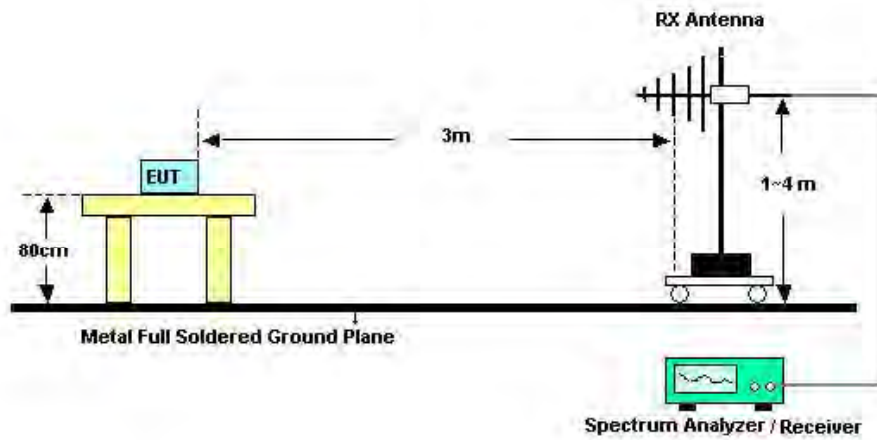
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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 - Preamp 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 $f \geq 1$ 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.

3.5.4 Test Setup

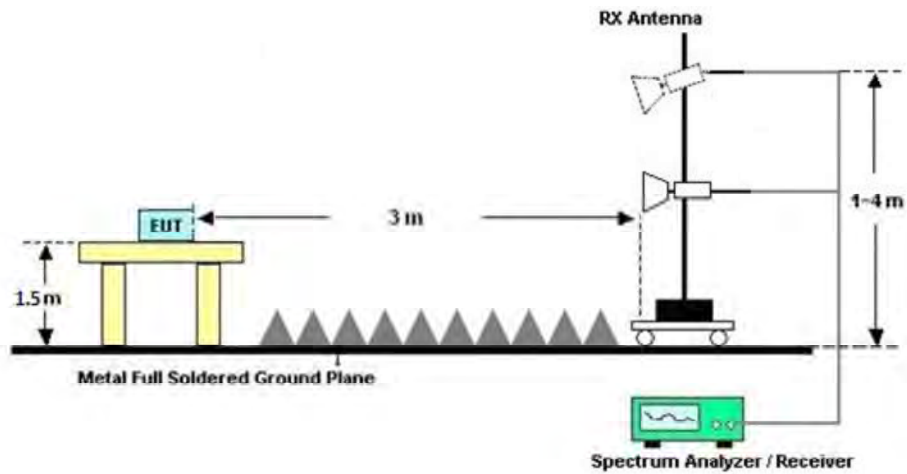
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

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.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C&D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.



3.6 AC Conducted Emission Measurement

3.6.1 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 (dBµV)	
	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.

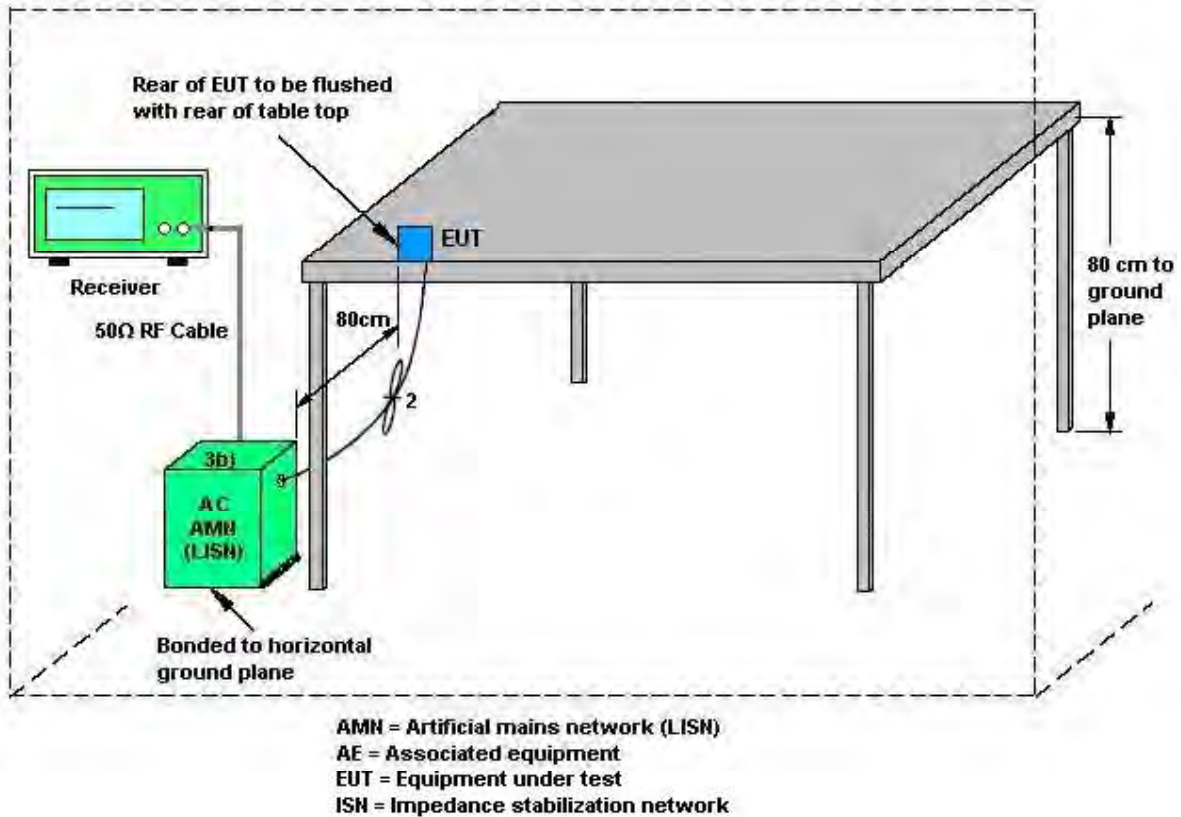
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 07, 2022	May 01, 2022~ Jul. 14, 2022	Apr. 08, 2023	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 28, 2021	May 01, 2022~ Jul. 14, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 28, 2021	May 01, 2022~ Jul. 14, 2022	Dec. 27, 2022	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 14, 2021	Jul. 07, 2022	Jul. 13, 2022	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2022	Jul. 07, 2022	Jun. 21, 2023	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Sep. 28, 2021	Jul. 07, 2022	Sep. 27, 2022	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 18, 2021	Jul. 07, 2022	Jul. 18, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 13, 2021	Jul. 07, 2022	Jul. 13, 2022	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 10, 2022	Jul. 07, 2022	Apr. 10, 2023	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 22, 2021	Jul. 07, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Jul. 07, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 22, 2021	Jul. 07, 2022	Oct. 21, 2022	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010002470	N/A	NCR	Jul. 07, 2022	NCR	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Jul. 07, 2022	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Jul. 07, 2022	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Sep. 01, 2021	Jul. 14, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 01, 2021	Jul. 14, 2022	Aug. 31, 2022	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 29, 2021	Jul. 14, 2022	Oct. 28, 2022	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 14, 2022	Jul. 14, 2022	Jul. 13, 2023	Conduction (CO01-SZ)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %
Conducted Power Spectral Density	±1.32 dB

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2dB
---	-------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
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----- THE END -----



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Chen Hong	Temperature:	21~25	°C
Test Date:	2022/5/1~2022/7/14	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 1		
11b	1Mbps	1	1	2412	13.34	8.08	0.50	Pass
11b	1Mbps	1	6	2437	13.34	9.06	0.50	Pass
11b	1Mbps	1	11	2462	13.34	9.10	0.50	Pass
11b	1Mbps	1	12	2467	13.44	9.04	0.50	Pass
11b	1Mbps	1	13	2472	13.44	9.04	0.50	Pass
11g	6Mbps	1	1	2412	16.73	15.11	0.50	Pass
11g	6Mbps	1	6	2437	16.73	15.09	0.50	Pass
11g	6Mbps	1	11	2462	16.73	15.11	0.50	Pass
11g	6Mbps	1	12	2467	16.73	15.11	0.50	Pass
11g	6Mbps	1	13	2472	16.73	15.11	0.50	Pass
HT20	MCS0	1	1	2412	17.68	15.11	0.50	Pass
HT20	MCS0	1	6	2437	17.68	15.11	0.50	Pass
HT20	MCS0	1	11	2462	17.68	15.11	0.50	Pass
HT20	MCS0	1	12	2467	17.68	15.10	0.50	Pass
HT20	MCS0	1	13	2472	17.68	15.11	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	16.00	30.00	4.60	20.60	36.00	Pass
11b	1Mbps	1	6	2437	16.10	30.00	4.60	20.70	36.00	Pass
11b	1Mbps	1	11	2462	17.00	30.00	4.60	21.60	36.00	Pass
11b	1Mbps	1	12	2467	17.40	30.00	4.60	22.00	36.00	Pass
11b	1Mbps	1	13	2472	15.60	30.00	4.60	20.20	36.00	Pass
11g	6Mbps	1	1	2412	16.50	30.00	4.60	21.10	36.00	Pass
11g	6Mbps	1	6	2437	17.40	30.00	4.60	22.00	36.00	Pass
11g	6Mbps	1	11	2462	16.40	30.00	4.60	21.00	36.00	Pass
11g	6Mbps	1	12	2467	14.40	30.00	4.60	19.00	36.00	Pass
11g	6Mbps	1	13	2472	11.90	30.00	4.60	16.50	36.00	Pass
HT20	MCS0	1	1	2412	16.60	30.00	4.60	21.20	36.00	Pass
HT20	MCS0	1	6	2437	17.50	30.00	4.60	22.10	36.00	Pass
HT20	MCS0	1	11	2462	16.60	30.00	4.60	21.20	36.00	Pass
HT20	MCS0	1	12	2467	14.00	30.00	4.60	18.60	36.00	Pass
HT20	MCS0	1	13	2472	8.70	30.00	4.60	13.30	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

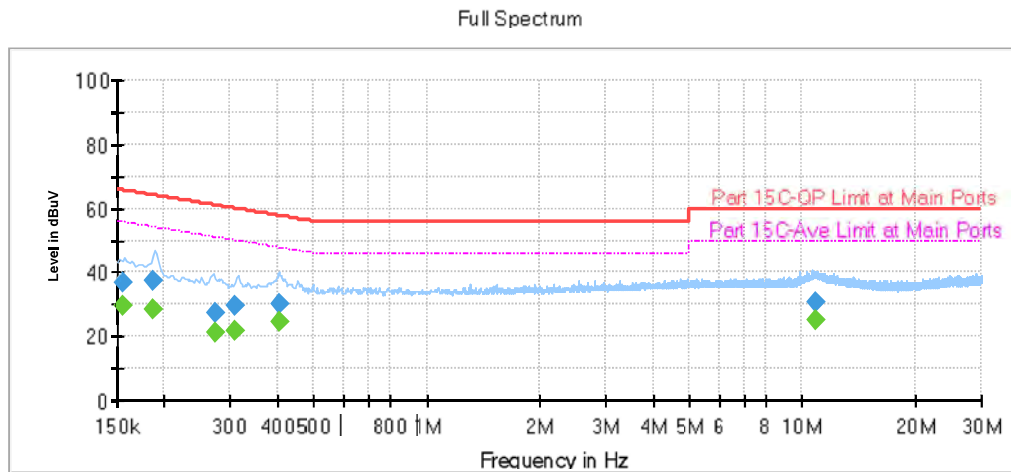
2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-8.27	-	-	4.60	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-9.54	-	-	4.60	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-7.75	-	-	4.60	-	8.00	-	Pass
11b	1Mbps	1	12	2467	-9.61	-	-	4.60	-	8.00	-	Pass
11b	1Mbps	1	13	2472	-10.37	-	-	4.60	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-10.47	-	-	4.60	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-9.81	-	-	4.60	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-10.22	-	-	4.60	-	8.00	-	Pass
11g	6Mbps	1	12	2467	-11.36	-	-	4.60	-	8.00	-	Pass
11g	6Mbps	1	13	2472	-15.02	-	-	4.60	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-7.79	-	-	4.60	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-9.44	-	-	4.60	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-9.81	-	-	4.60	-	8.00	-	Pass
HT20	MCS0	1	12	2467	-11.54	-	-	4.60	-	8.00	-	Pass
HT20	MCS0	1	13	2472	-17.17	-	-	4.60	-	8.00	-	Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Zhang Tao	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

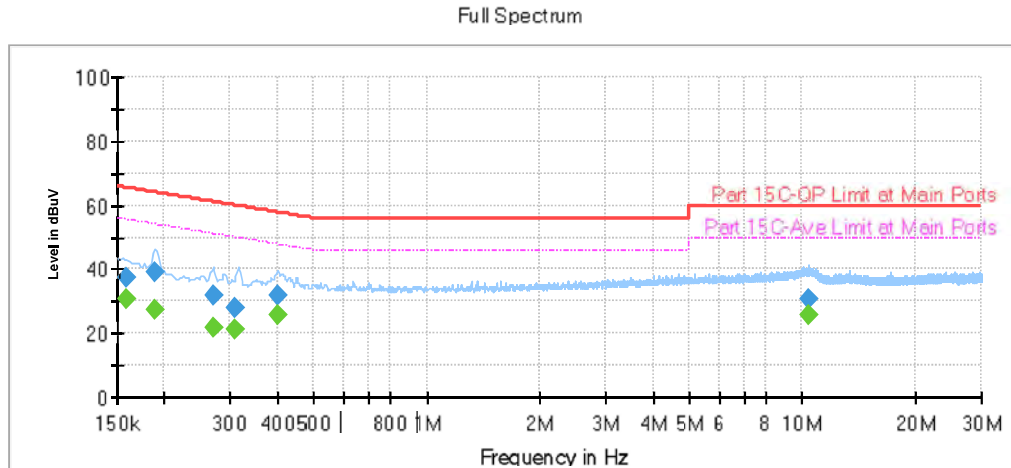


Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.155400	36.92	---	65.71	28.78	L1	OFF	19.7
0.155400	---	29.64	55.71	26.07	L1	OFF	19.7
0.186000	37.62	---	64.21	26.59	L1	OFF	19.7
0.186000	---	28.43	54.21	25.78	L1	OFF	19.7
0.273750	27.31	---	61.00	33.70	L1	OFF	19.7
0.273750	---	21.38	51.00	29.63	L1	OFF	19.7
0.309750	29.77	---	59.98	30.20	L1	OFF	19.7
0.309750	---	21.78	49.98	28.19	L1	OFF	19.7
0.406500	29.95	---	57.72	27.77	L1	OFF	19.7
0.406500	---	24.32	47.72	23.40	L1	OFF	19.7
10.849650	30.51	---	60.00	29.49	L1	OFF	20.0
10.849650	---	25.14	50.00	24.86	L1	OFF	20.0



Test Engineer :	Zhang Tao	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	37.35	---	65.52	28.17	N	OFF	19.7
0.159000	---	30.80	55.52	24.72	N	OFF	19.7
0.188070	39.31	---	64.12	24.81	N	OFF	19.7
0.188070	---	27.33	54.12	26.79	N	OFF	19.7
0.269430	31.79	---	61.14	29.34	N	OFF	19.7
0.269430	---	21.96	51.14	29.17	N	OFF	19.7
0.309750	27.91	---	59.98	32.07	N	OFF	19.7
0.309750	---	21.30	49.98	28.68	N	OFF	19.7
0.401460	31.67	---	57.82	26.16	N	OFF	19.7
0.401460	---	25.86	47.82	21.96	N	OFF	19.7
10.349250	30.72	---	60.00	29.28	N	OFF	20.0
10.349250	---	25.51	50.00	24.49	N	OFF	20.0



Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH 01 2412MHz		2389.59	53.73	-20.27	74	48.73	31.7	5.55	32.25	106	192	P	H
		2387.07	43.23	-10.77	54	38.23	31.7	5.55	32.25	106	192	A	H
	*	2412	110.35	-	-	105.22	31.8	5.57	32.24	106	192	P	H
	*	2412	106.49	-	-	101.36	31.8	5.57	32.24	106	192	A	H
		2363.655	51.41	-22.59	74	46.46	31.7	5.51	32.26	100	184	P	V
		2387.07	40.95	-13.05	54	35.95	31.7	5.55	32.25	100	184	A	V
	*	2412	105.39	-	-	100.26	31.8	5.57	32.24	100	184	P	V
	*	2412	101.51	-	-	96.38	31.8	5.57	32.24	100	184	A	V
802.11b CH 06 2437MHz		2363.34	51.54	-22.46	74	46.59	31.7	5.51	32.26	168	185	P	H
		2389.24	41.37	-12.63	54	36.37	31.7	5.55	32.25	168	185	A	H
	*	2437	110.22	-	-	104.75	32	5.61	32.14	168	185	P	H
	*	2437	106.31	-	-	100.84	32	5.61	32.14	168	185	A	H
		2485.44	52.4	-21.6	74	46.62	32.07	5.66	31.95	168	185	P	H
		2487.26	42.28	-11.72	54	36.5	32.07	5.66	31.95	168	185	A	H
		2349.06	51.18	-22.82	74	46.25	31.7	5.49	32.26	116	115	P	V
		2389.66	40.8	-13.2	54	35.8	31.7	5.55	32.25	116	115	A	V
	*	2437	107.79	-	-	102.32	32	5.61	32.14	116	115	P	V
	*	2437	103.95	-	-	98.48	32	5.61	32.14	116	115	A	V
		2484.18	52.54	-21.46	74	46.76	32.07	5.66	31.95	116	115	P	V
	2495.52	41.87	-12.13	54	35.94	32.1	5.68	31.85	116	115	A	V	



802.11b CH 11 2462MHz	*	2462	110.2	-	-	104.58	32.03	5.64	32.05	126	186	P	H
	*	2462	106.39	-	-	100.77	32.03	5.64	32.05	126	186	A	H
		2486	53.38	-20.62	74	47.6	32.07	5.66	31.95	126	186	P	H
		2484	42.73	-11.27	54	36.95	32.07	5.66	31.95	126	186	A	H
	*	2462	108.93	-	-	103.31	32.03	5.64	32.05	111	112	P	V
	*	2462	105.13	-	-	99.51	32.03	5.64	32.05	111	112	A	V
		2494.32	53.42	-20.58	74	47.49	32.1	5.68	31.85	111	112	P	V
		2487.6	42.56	-11.44	54	36.73	32.1	5.68	31.95	111	112	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	109.32	-	-	103.6	32.03	5.64	31.95	130	182	P	H
	*	2467	105.5	-	-	99.78	32.03	5.64	31.95	130	182	A	H
		2484.08	57.62	-16.38	74	51.84	32.07	5.66	31.95	130	182	P	H
		2484.04	50.63	-3.37	54	44.85	32.07	5.66	31.95	130	182	A	H
	*	2467	107.8	-	-	102.08	32.03	5.64	31.95	134	114	P	V
	*	2467	103.97	-	-	98.25	32.03	5.64	31.95	134	114	A	V
		2483.92	57.04	-16.96	74	51.26	32.07	5.66	31.95	134	114	P	V
		2484	49.94	-4.06	54	44.16	32.07	5.66	31.95	134	114	A	V
802.11b CH 13 2472MHz	*	2472	106.59	-	-	100.81	32.07	5.66	31.95	130	180	P	H
	*	2472	102.75	-	-	96.97	32.07	5.66	31.95	130	180	A	H
		2484.6	57.66	-16.34	74	51.88	32.07	5.66	31.95	130	180	P	H
		2487.04	50.99	-3.01	54	45.21	32.07	5.66	31.95	130	180	A	H
	*	2472	105.14	-	-	99.36	32.07	5.66	31.95	132	113	P	V
	*	2472	101.34	-	-	95.56	32.07	5.66	31.95	132	113	A	V
		2486.88	57.14	-16.86	74	51.36	32.07	5.66	31.95	132	113	P	V
		2487.16	50.63	-3.37	54	44.85	32.07	5.66	31.95	132	113	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)**

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH 01 2412MHz		4824	49.82	-24.18	74	65.21	33.8	8.71	57.9	-	-	P	H
		6432	51.06	-22.94	74	62.34	35.45	11.31	58.04	100	89	P	H
		6432	47.06	-6.94	54	58.34	35.45	11.31	58.04	100	89	A	H
		4824	49.73	-24.27	74	65.12	33.8	8.71	57.9	-	-	P	V
		6432	51.83	-22.17	74	63.11	35.45	11.31	58.04	100	118	P	V
		6432	47.74	-6.26	54	59.02	35.45	11.31	58.04	100	118	A	V
802.11b CH 06 2437MHz		4874	50.08	-23.92	74	65.46	33.73	8.79	57.9	-	-	P	H
		6498	50.23	-23.77	74	61.57	35.49	11.33	58.16	-	-	P	H
		7311	49.67	-24.33	74	62.33	35.72	11.09	59.47	-	-	P	H
		4874	50.17	-23.83	74	65.55	33.73	8.79	57.9	100	267	P	V
		4874	47.22	-6.78	54	62.6	33.73	8.79	57.9	100	267	A	V
		6498	51.23	-22.77	74	62.57	35.49	11.33	58.16	100	117	P	V
		6498	47.33	-6.67	54	58.67	35.49	11.33	58.16	100	117	A	V
		7311	53.59	-20.41	74	66.25	35.72	11.09	59.47	100	190	P	V
	7311	50.49	-3.51	54	63.15	35.72	11.09	59.47	100	190	A	V	
802.11b CH 11 2462MHz		4924	51.4	-22.6	74	66.7	33.7	8.9	57.9	100	287	P	H
		4924	48.24	-5.76	54	63.54	33.7	8.9	57.9	100	287	A	H
		6565	49.71	-24.29	74	61.12	35.51	11.32	58.24	-	-	P	H
		7386	50.25	-23.75	74	63.12	35.76	11.08	59.71	-	-	P	H
		4924	49.22	-24.78	74	64.52	33.7	8.9	57.9	-	-	P	V
		6565	52.01	-21.99	74	63.42	35.51	11.32	58.24	100	115	P	V
		6565	48.24	-5.76	54	59.65	35.51	11.32	58.24	100	115	A	V
		7386	53.25	-20.75	74	66.12	35.76	11.08	59.71	100	198	P	V
	7386	49.84	-4.16	54	62.71	35.76	11.08	59.71	100	198	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	48.79	-25.21	74	64.09	33.7	8.9	57.9	-	-	P	H
		6576	52.87	-21.13	74	64.3	35.51	11.32	58.26	100	67	P	H
		6576	47.87	-6.13	54	59.3	35.51	11.32	58.26	100	67	A	H
		7401	46.51	-27.49	74	59.4	35.77	11.1	59.76	-	-	P	H
		4934	50	-24	74	65.3	33.7	8.9	57.9	-	-	P	V
		6576	53.07	-20.93	74	64.5	35.51	11.32	58.26	100	113	P	V
		6576	48.67	-5.33	54	60.1	35.51	11.32	58.26	100	113	A	V
		7401	49.98	-24.02	74	62.87	35.77	11.1	59.76	-	-	P	V
802.11b CH 13 2472MHz		4944	45.68	-28.32	74	60.94	33.7	8.94	57.9	-	-	P	H
		6592	49.86	-24.14	74	61.3	35.52	11.31	58.27	-	-	P	H
		7416	45.07	-28.93	74	57.96	35.77	11.1	59.76	-	-	P	H
		4944	44.86	-29.14	74	60.12	33.7	8.94	57.9			P	V
		6592	52.42	-21.58	74	63.86	35.52	11.31	58.27	100	96	P	V
		6592	48.22	-5.78	54	59.66	35.52	11.31	58.27	100	96	A	V
		7416	45.22	-28.78	74	58.11	35.77	11.1	59.76			P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.485	55.9	-18.1	74	50.9	31.7	5.55	32.25	104	183	P	H
		2390	45.29	-8.71	54	40.28	31.7	5.55	32.24	104	183	A	H
	*	2412	110.16	-	-	105.03	31.8	5.57	32.24	104	183	P	H
	*	2412	100.37	-	-	95.24	31.8	5.57	32.24	104	183	A	H
		2388.96	52.78	-21.22	74	47.78	31.7	5.55	32.25	125	97	P	V
		2390	42.66	-11.34	54	37.65	31.7	5.55	32.24	125	97	A	V
	*	2412	108.13	-	-	103	31.8	5.57	32.24	125	97	P	V
802.11g CH 06 2437MHz		2388.68	54.16	-19.84	74	49.16	31.7	5.55	32.25	114	184	P	H
		2389.94	44.09	-9.91	54	39.08	31.7	5.55	32.24	114	184	A	H
	*	2437	111.02	-	-	105.55	32	5.61	32.14	114	184	P	H
	*	2437	100.96	-	-	95.49	32	5.61	32.14	114	184	A	H
		2484.04	54.28	-19.72	74	48.5	32.07	5.66	31.95	114	184	P	H
		2483.5	43.98	-10.02	54	38.2	32.07	5.66	31.95	114	184	A	H
		2373.14	52.07	-21.93	74	47.09	31.7	5.53	32.25	100	117	P	V
		2389.94	42.36	-11.64	54	37.35	31.7	5.55	32.24	100	117	A	V
	*	2437	108.51	-	-	103.04	32	5.61	32.14	100	117	P	V
	*	2437	98.48	-	-	93.01	32	5.61	32.14	100	117	A	V
		2484.81	54.36	-19.64	74	48.58	32.07	5.66	31.95	100	117	P	V
	2483.5	43.66	-10.34	54	37.88	32.07	5.66	31.95	100	117	A	V	



802.11g CH 11 2462MHz	*	2462	109.26	-	-	103.64	32.03	5.64	32.05	100	182	P	H
	*	2462	99.47	-	-	93.85	32.03	5.64	32.05	100	182	A	H
		2483.52	57.57	-16.43	74	51.79	32.07	5.66	31.95	100	182	P	H
		2483.76	46.22	-7.78	54	40.44	32.07	5.66	31.95	100	182	A	H
	*	2462	108	-	-	102.38	32.03	5.64	32.05	111	114	P	V
	*	2462	98.25	-	-	92.63	32.03	5.64	32.05	111	114	A	V
		2483.6	56.28	-17.72	74	50.5	32.07	5.66	31.95	111	114	P	V
		2483.76	44.68	-9.32	54	38.9	32.07	5.66	31.95	111	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz	*	2467	107.15	-	-	101.43	32.03	5.64	31.95	136	178	P	H
	*	2467	97.46	-	-	91.74	32.03	5.64	31.95	136	178	A	H
		2483.6	64.2	-9.8	74	58.42	32.07	5.66	31.95	136	178	P	H
		2483.52	50.48	-3.52	54	44.7	32.07	5.66	31.95	136	178	A	H
	*	2467	105.93	-	-	100.21	32.03	5.64	31.95	133	113	P	V
	*	2467	96.05	-	-	90.33	32.03	5.64	31.95	133	113	A	V
		2485.08	62.99	-11.01	74	57.21	32.07	5.66	31.95	133	113	P	V
		2483.52	49.74	-4.26	54	43.96	32.07	5.66	31.95	133	113	A	V
802.11g CH 13 2472MHz	*	2472	105.34	-	-	99.56	32.07	5.66	31.95	132	182	P	H
	*	2472	95.35	-	-	89.57	32.07	5.66	31.95	132	182	A	H
		2484.44	61.78	-12.22	74	56	32.07	5.66	31.95	132	182	P	H
		2484.12	50.26	-3.74	54	44.48	32.07	5.66	31.95	132	182	A	H
	*	2472	103.32	-	-	97.54	32.07	5.66	31.95	132	114	P	V
	*	2472	93.68	-	-	87.9	32.07	5.66	31.95	132	114	A	V
		2484.4	60.64	-13.36	74	54.86	32.07	5.66	31.95	132	114	P	V
		2484.2	49.24	-4.76	54	43.46	32.07	5.66	31.95	132	114	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

Table with 14 columns: WIFI, Note, Frequency, Level, Margin, Limit, Read, Antenna, Path, Preamp, Ant, Table, Peak, Pol. It contains test data for three channels (802.11g CH 01, CH 06, CH 11) and a final Remark section.



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4934	43.41	-30.59	74	58.71	33.7	8.9	57.9	-	-	P	H
		6578	52.12	-21.88	74	63.55	35.51	11.32	58.26	100	55	P	H
		6578	48.02	-5.98	54	59.45	35.51	11.32	58.26	100	55	A	H
		7401	45	-29	74	57.89	35.77	11.1	59.76	-	-	P	H
		4934	43.66	-30.34	74	58.96	33.7	8.9	57.9	-	-	P	V
		6578	54.27	-19.73	74	65.7	35.51	11.32	58.26	100	152	P	V
		6578	49.77	-4.23	54	61.2	35.51	11.32	58.26	100	152	A	V
		7401	45.47	-28.53	74	58.36	35.77	11.1	59.76	-	-	P	V
802.11g CH 13 2472MHz		4944	42.99	-31.01	74	58.25	33.7	8.94	57.9	-	-	P	H
		6592	51.44	-22.56	74	62.88	35.52	11.31	58.27	100	58	P	H
		6592	47.26	-6.74	54	58.7	35.52	11.31	58.27	100	58	A	H
		7416	45.27	-28.73	74	58.16	35.77	11.1	59.76	-	-	P	H
		4944	44.05	-29.95	74	59.31	33.7	8.94	57.9	-	-	P	V
		6592	53.92	-20.08	74	65.36	35.52	11.31	58.27	100	125	P	V
		6592	49.78	-4.22	54	61.22	35.52	11.31	58.27	100	125	A	V
		7416	45.36	-28.64	74	58.25	35.77	11.1	59.76	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.695	54.52	-19.48	74	49.52	31.7	5.55	32.25	100	276	P	H
		2390	44	-10	54	38.99	31.7	5.55	32.24	100	276	A	H
	*	2412	109.33	-	-	104.2	31.8	5.57	32.24	100	276	P	H
	*	2412	99.5	-	-	94.37	31.8	5.57	32.24	100	276	A	H
		2389.695	51.58	-22.42	74	46.58	31.7	5.55	32.25	100	175	P	V
		2390	41.28	-12.72	54	36.27	31.7	5.55	32.24	100	175	A	V
	*	2412	101.66	-	-	96.53	31.8	5.57	32.24	100	175	P	V
	*	2412	91.8	-	-	86.67	31.8	5.57	32.24	100	175	A	V
802.11n HT20 CH 06 2437MHz		2388.82	53.96	-20.04	74	48.96	31.7	5.55	32.25	171	182	P	H
		2389.94	43.69	-10.31	54	38.68	31.7	5.55	32.24	171	182	A	H
	*	2437	110.42	-	-	104.95	32	5.61	32.14	171	182	P	H
	*	2437	100.52	-	-	95.05	32	5.61	32.14	171	182	A	H
		2483.62	54.79	-19.21	74	49.01	32.07	5.66	31.95	171	182	P	H
		2483.55	43.76	-10.24	54	37.98	32.07	5.66	31.95	171	182	A	H
		2379.86	52.68	-21.32	74	47.7	31.7	5.53	32.25	100	118	P	V
		2389.94	42.17	-11.83	54	37.16	31.7	5.55	32.24	100	118	A	V
	*	2437	107.5	-	-	102.03	32	5.61	32.14	100	118	P	V
	*	2437	97.82	-	-	92.35	32	5.61	32.14	100	118	A	V
		2483.5	54.53	-19.47	74	48.75	32.07	5.66	31.95	100	118	P	V
		2483.55	43.16	-10.84	54	37.38	32.07	5.66	31.95	100	118	A	V



802.11n HT20 CH 11 2462MHz	*	2462	109.67	-	-	104.05	32.03	5.64	32.05	122	276	P	H
	*	2462	100.11	-	-	94.49	32.03	5.64	32.05	122	276	A	H
		2485.28	57.52	-16.48	74	51.74	32.07	5.66	31.95	122	276	P	H
		2483.76	45.88	-8.12	54	40.1	32.07	5.66	31.95	122	276	A	H
	*	2462	104.24	-	-	98.62	32.03	5.64	32.05	100	175	P	V
	*	2462	94.04	-	-	88.42	32.03	5.64	32.05	100	175	A	V
		2487.76	52.94	-21.06	74	47.11	32.1	5.68	31.95	100	175	P	V
		2483.84	41.87	-12.13	54	36.09	32.07	5.66	31.95	100	175	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz	*	2467	106.26	-	-	100.54	32.03	5.64	31.95	112	181	P	H
	*	2467	96.52	-	-	90.8	32.03	5.64	31.95	112	181	A	H
		2483.6	63.09	-10.91	74	57.31	32.07	5.66	31.95	112	181	P	H
		2483.52	50.15	-3.85	54	44.37	32.07	5.66	31.95	112	181	A	H
	*	2467	105.32	-	-	99.6	32.03	5.64	31.95	132	112	P	V
	*	2467	94.95	-	-	89.23	32.03	5.64	31.95	132	112	A	V
		2485.72	61.55	-12.45	74	55.77	32.07	5.66	31.95	132	112	P	V
		2483.52	48.69	-5.31	54	42.91	32.07	5.66	31.95	132	112	A	V
802.11n HT20 CH 13 2472MHz	*	2472	102.29	-	-	96.51	32.07	5.66	31.95	132	181	P	H
	*	2472	92.49	-	-	86.71	32.07	5.66	31.95	132	181	A	H
		2483.64	61.46	-12.54	74	55.68	32.07	5.66	31.95	132	181	P	H
		2483.52	50.83	-3.17	54	45.05	32.07	5.66	31.95	132	181	A	H
	*	2472	100.69	-	-	94.91	32.07	5.66	31.95	132	112	P	V
	*	2472	90.64	-	-	84.86	32.07	5.66	31.95	132	112	A	V
		2483.8	60.28	-13.72	74	54.5	32.07	5.66	31.95	132	112	P	V
		2483.52	49.53	-4.47	54	43.75	32.07	5.66	31.95	132	112	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	43.84	-30.16	74	59.23	33.8	8.71	57.9	-	-	P	H
		6432	52.37	-21.63	74	63.65	35.45	11.31	58.04	100	72	P	H
		6432	47.91	-6.09	54	59.19	35.45	11.31	58.04	100	72	A	H
		4824	43.8	-30.2	74	59.19	33.8	8.71	57.9	-	-	P	V
		6432	53.21	-20.79	74	64.49	35.45	11.31	58.04	100	145	P	V
		6432	48.81	-5.19	54	60.09	35.45	11.31	58.04	100	145	A	V
802.11n HT20 CH 06 2437MHz		4874	44.92	-29.08	74	60.3	33.73	8.79	57.9	-	-	P	H
		6498	52.86	-21.14	74	64.2	35.49	11.33	58.16	100	88	P	H
		6498	48.76	-5.24	54	60.1	35.49	11.33	58.16	100	88	A	H
		7311	46.05	-27.95	74	58.71	35.72	11.09	59.47	-	-	P	H
		4874	42.84	-31.16	74	58.22	33.73	8.79	57.9	-	-	P	V
		6498	52.46	-21.54	74	63.8	35.49	11.33	58.16	100	155	P	V
		6498	47.78	-6.22	54	59.12	35.49	11.33	58.16	100	155	A	V
802.11n HT20 CH 11 2462MHz		4924	45.3	-28.7	74	60.6	33.7	8.9	57.9	-	-	P	H
		6565	51.09	-22.91	74	62.5	35.51	11.32	58.24	100	62	P	H
		6565	46.62	-7.38	54	58.03	35.51	11.32	58.24	100	62	A	H
		7386	46.53	-27.47	74	59.4	35.76	11.08	59.71	-	-	P	H
		4924	43.51	-30.49	74	58.81	33.7	8.9	57.9	-	-	P	V
		6565	52.39	-21.61	74	63.8	35.51	11.32	58.24	100	122	P	V
		6565	47.19	-6.81	54	58.6	35.51	11.32	58.24	100	122	A	V
		7386	47.96	-26.04	74	60.83	35.76	11.08	59.71	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11n HT20 CH 12 2467MHz		4934	42.83	-31.17	74	58.13	33.7	8.9	57.9	-	-	P	H
		6578	51.99	-22.01	74	63.42	35.51	11.32	58.26	100	75	P	H
		6578	47.56	-6.44	54	58.99	35.51	11.32	58.26	100	75	A	H
		7401	45.24	-28.76	74	58.13	35.77	11.1	59.76	-	-	P	H
		4934	42.62	-31.38	74	57.92	33.7	8.9	57.9	-	-	P	V
		6578	52.77	-21.23	74	64.2	35.51	11.32	58.26	100	152	P	V
		6578	48.87	-5.13	54	60.3	35.51	11.32	58.26	100	152	A	V
	7401	44.85	-29.15	74	57.74	35.77	11.1	59.76	-	-	P	V	
802.11n HT20 CH 13 2472MHz		4944	43.28	-30.72	74	58.54	33.7	8.94	57.9	-	-	P	H
		6592	52.11	-21.89	74	63.55	35.52	11.31	58.27	100	68	P	H
		6592	48.31	-5.69	54	59.75	35.52	11.31	58.27	100	68	A	H
		7416	44.97	-29.03	74	57.86	35.77	11.1	59.76	-	-	P	H
		4944	44.19	-29.81	74	59.45	33.7	8.94	57.9	-	-	P	V
		6592	53.69	-20.31	74	65.13	35.52	11.31	58.27	100	122	P	V
		6592	48.69	-5.31	54	60.13	35.52	11.31	58.27	100	122	A	V
	7416	44.63	-29.37	74	57.52	35.77	11.1	59.76	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 13 2472MHz		2472	106.24	-	-	100.46	32.07	5.66	31.95	110	348	P	H
		2472	102.32	-	-	96.54	32.07	5.66	31.95	110	348	A	H
	*	2487.56	58.21	-15.79	74	52.38	32.1	5.68	31.95	110	348	P	H
	*	2487.24	50.22	-3.78	54	44.44	32.07	5.66	31.95	110	348	A	H
		2472	105.58	-	-	99.8	32.07	5.66	31.95	100	147	P	V
		2472	101.78	-	-	96	32.07	5.66	31.95	100	147	A	V
	*	2487.2	57.52	-16.48	74	51.74	32.07	5.66	31.95	100	147	P	V
	*	2487.16	49.44	-4.56	54	43.66	32.07	5.66	31.95	100	147	A	V

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 13 2472MHz		4944	44.78	-29.22	74	60.04	33.7	8.94	57.9	-	-	P	H
		6591	48.8	-25.2	74	60.24	35.52	11.31	58.27	-	-	P	H
		7416	44.39	-29.61	74	57.28	35.77	11.1	59.76	-	-	A	H
		4944	52.08	-21.92	74	67.34	33.7	8.94	57.9	111	170	P	V
		4944	49.45	-4.55	54	64.71	33.7	8.94	57.9	111	170	P	V
		6591	49.1	-24.9	74	60.54	35.52	11.31	58.27	-	-	A	V
		7416	46.34	-27.66	74	59.23	35.77	11.1	59.76	-	-		V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11b LF		89.17	20.04	-23.46	43.5	40.2	14.04	0.98	35.18	-	-	P	H
		196.84	25.73	-17.77	43.5	42.87	16.51	1.45	35.1	-	-	P	H
		317.12	27.19	-18.81	46	40.06	20.15	1.88	34.9	-	-	P	H
		581.93	24.92	-21.08	46	31.4	25.43	2.63	34.54	-	-	P	H
		828.31	27.97	-18.03	46	30.69	28.42	3.16	34.3	-	-	P	H
		974.78	29.48	-24.52	54	30.21	29.99	3.43	34.15	-	-	P	H
		36.79	26.86	-13.14	40	41.84	19.38	0.64	35	-	-	P	V
		90.14	25.95	-17.55	43.5	46.23	13.92	0.98	35.18	-	-	P	V
		196.84	30.01	-13.49	43.5	47.15	16.51	1.45	35.1	-	-	P	V
		325.85	24.59	-21.41	46	37.15	20.44	1.9	34.9	-	-	P	V
		603.27	25.67	-20.33	46	31.66	25.82	2.69	34.5	-	-	P	V
	988.36	29.18	-24.82	54	29.71	30.13	3.46	34.12	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Simultaneous transmission>

2.4 GHz 2390~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH11 2462MHz & BLE(1M) CH11		2462	109.33	-	-	103.71	32.03	5.64	32.05	170	276	P	H
		2462	105.63	-	-	100.01	32.03	5.64	32.05	170	276	A	H
	*	2499.8	54.46	-19.54	74	48.53	32.1	5.68	31.85	170	276	P	H
	*	2500	45.42	-8.58	54	39.49	32.1	5.68	31.85	170	276	A	H
		2462	102.74	-	-	97.12	32.03	5.64	32.05	100	137	P	V
		2462	98.93	-	-	93.31	32.03	5.64	32.05	100	137	A	V
	*	2487	52.4	-21.6	74	46.62	32.07	5.66	31.95	100	137	P	V
	*	2500	42.26	-11.74	54	36.33	32.1	5.68	31.85	100	137	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH11 2462MHz & BLE(1M) CH11		2385.74	51.28	-22.72	74	46.28	31.7	5.55	32.25	100	360	P	H
		2367.68	41.58	-12.42	54	36.62	31.7	5.51	32.25	100	360	A	H
	*	2424	96.5	-	-	91.15	31.9	5.59	32.14	100	360	P	H
	*	2424	95.62	-	-	90.27	31.9	5.59	32.14	100	360	A	H
		2379.02	50.3	-23.7	74	45.32	31.7	5.53	32.25	103	270	P	V
		2375.52	41.46	-12.54	54	36.48	31.7	5.53	32.25	103	270	A	V
	*	2424	97.91	-	-	92.56	31.9	5.59	32.14	103	270	P	V
	*	2424	96.86	-	-	91.51	31.9	5.59	32.14	103	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4 GHz 2390~2483.5MHz
WIFI 802.11b (IMD 2500 @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b		2500	55.78	-18.22	74	49.85	32.1	5.68	31.85	170	184	P	H
CH11		2500	47.31	-6.69	54	41.38	32.1	5.68	31.85	170	184	P	H
2462MHz & BLE(1M)		2500	54.31	-19.69	74	48.38	32.1	5.68	31.85	106	140	A	V
CH11		2500	44.54	-9.46	54	38.61	32.1	5.68	31.85	106	140	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4 GHz 2390~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	Line (dBμV/m)	Level (dBμV)	Factor (dB/m)	Loss (dB)	Factor (dB)	Pos (cm)	Pos (deg)	Avg. (P/A)	(H/V)
802.11b CH11 2462MHz & BLE(1M) CH11		4848	42.87	-31.13	74	58.23	33.8	8.74	57.9	-	-	P	H
		4924	51.54	-22.46	74	66.84	33.7	8.9	57.9	100	331	P	H
		4924	49.83	-4.17	54	65.13	33.7	8.9	57.9	100	331	A	H
		6565	51.13	-22.87	74	62.54	35.51	11.32	58.24	100	92	P	H
		6565	45.34	-8.66	54	56.75	35.51	11.32	58.24	100	92	A	H
		7272	45.45	-28.55	74	57.92	35.71	11.19	59.37	-	-	P	H
		7386	51.66	-22.34	74	64.53	35.76	11.08	59.71	100	59	P	H
		7386	45.13	-8.87	54	58	35.76	11.08	59.71	100	59	A	H
		4848	43.14	-30.86	74	58.5	33.8	8.74	57.9	-	-	P	V
		4924	52.82	-21.18	74	68.12	33.7	8.9	57.9	100	266	P	V
		4924	50.22	-3.78	54	65.52	33.7	8.9	57.9	100	266	A	V
		6565	52.8	-21.2	74	64.21	35.51	11.32	58.24	100	245	P	V
		6565	47.3	-6.7	54	58.71	35.51	11.32	58.24	100	245	A	V
		7272	45.56	-28.44	74	58.03	35.71	11.19	59.37			P	V
		7386	52.25	-21.75	74	65.12	35.76	11.08	59.71	100	311	P	V
	7386	47.84	-6.16	54	60.71	35.76	11.08	59.71	100	311	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4 GHz 2390~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH08 2447MHz & BLE(1M) CH01		2369.5	50.99	-23.01	74	46.01	31.7	5.53	32.25	100	276	P	H
		2369.08	41.36	-12.64	54	36.38	31.7	5.53	32.25	100	276	A	H
	*	2447	110.35	-	-	104.79	32	5.61	32.05	100	276	P	H
	*	2447	106.44	-	-	100.88	32	5.61	32.05	100	276	A	H
		2489.78	54.77	-19.23	74	48.94	32.1	5.68	31.95	100	276	P	H
		2489.99	46.75	-7.25	54	40.92	32.1	5.68	31.95	100	276	A	H
		2366.84	50.53	-23.47	74	45.57	31.7	5.51	32.25	100	340	P	V
		2366.14	40.22	-13.78	54	35.26	31.7	5.51	32.25	100	340	A	V
	*	2447	104.68	-	-	99.12	32	5.61	32.05	100	340	P	V
	*	2447	100.77	-	-	95.21	32	5.61	32.05	100	340	A	V
		2490.13	51.83	-22.17	74	46	32.1	5.68	31.95	100	340	P	V
		2489.99	42.78	-11.22	54	36.95	32.1	5.68	31.95	100	340	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH08 2447MHz & BLE(1M) CH01		2381.61	50.58	-23.42	74	45.6	31.7	5.53	32.25	100	360	P	H
		2366.385	41.7	-12.3	54	36.74	31.7	5.51	32.25	100	360	A	H
	*	2402	95.75	-	-	90.74	31.7	5.55	32.24	100	360	P	H
	*	2402	94.82			89.81	31.7	5.55	32.24	100	360	A	H
		2383.08	51.31	-22.69	74	46.33	31.7	5.53	32.25	103	270	P	V
		2367.645	41.35	-12.65	54	36.39	31.7	5.51	32.25	103	270	A	V
	*	2402	98.1	-	-	93.09	31.7	5.55	32.24	103	270	P	V
	*	2402	97.21			92.2	31.7	5.55	32.24	103	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**2.4 GHz 2390~2483.5MHz
WIFI 802.11b (IMD 2490 @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH11 2447MHz & BLE(1M) CH11		2490	56.76	-17.24	74	50.93	32.1	5.68	31.95	100	277	P	H
		2490	48.99	-5.01	54	43.16	32.1	5.68	31.95	100	277	P	H
		2490	53.95	-20.05	74	48.12	32.1	5.68	31.95	100	340	A	V
		2490	45.06	-8.94	54	39.23	32.1	5.68	31.95	100	340	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4 GHz 2390~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant. 1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	Avg. (P/A)	(H/V)
802.11b CH08 2447MHz & BLE(1M) CH01		4804	42.77	-31.23	74	58.19	33.8	8.68	57.9	-	-	P	H
		4894	51.04	-22.96	74	66.42	33.7	8.82	57.9	100	289	-	-
		4894	46.14	-7.86	54	61.52	33.7	8.82	57.9	100	289	P	H
		6525	52.74	-21.26	74	64.12	35.5	11.33	58.21	100	65	P	H
		6525	45.04	-8.96	54	56.42	35.5	11.33	58.21	100	65	P	H
		7212	45.71	-28.29	74	57.81	35.68	11.4	59.18	-	-	A	H
		7341	50.38	-23.62	74	63.12	35.74	11.09	59.57	100	63	-	H
		7341	43.87	-10.13	54	56.61	35.74	11.09	59.57	100	63	-	H
		4804	43.11	-30.89	74	58.53	33.8	8.68	57.9	-	-	P	V
		4894	51.25	-22.75	74	66.63	33.7	8.82	57.9	100	264	P	V
		4894	47.22	-6.78	54	62.6	33.7	8.82	57.9	100	264	P	V
		6525	52.19	-21.81	74	63.57	35.5	11.33	58.21	100	245	-	-
		6525	47.27	-6.73	54	58.65	35.5	11.33	58.21	100	245	P	V
		7212	45.53	-28.47	74	57.63	35.68	11.4	59.18	-	-	A	V
		7341	55.13	-18.87	74	67.87	35.74	11.09	59.57	100	195	P	V
	7341	48.46	-5.54	54	61.2	35.74	11.09	59.57	100	195		V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4 GHz 2390~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH13 2472MHz & BLE(2M) CH39		2472	106.08	-	-	100.3	32.07	5.66	31.95	100	191	P	H
		2472	102.22	-	-	96.44	32.07	5.66	31.95	100	191	A	H
	*	2484	58.61	-15.39	74	52.83	32.07	5.66	31.95	100	191	P	H
	*	2487.2	50.59	-3.41	54	44.81	32.07	5.66	31.95	100	191	A	H
		2474	101.72	-	-	95.94	32.07	5.66	31.95	100	92	P	V
		2472	97.91	-	-	92.13	32.07	5.66	31.95	100	92	A	V
	*	2486.84	55.68	-18.32	74	49.9	32.07	5.66	31.95	100	92	P	V
	*	2484	47.82	-6.18	54	42.04	32.07	5.66	31.95	100	92	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH13 2472MHz & BLE(2M) CH39		2480	100.44	-	-	94.66	32.07	5.66	31.95	110	161	P	H
		2480	96.68	-	-	90.9	32.07	5.66	31.95	110	161	A	H
	*	2483.88	57.61	-16.39	74	51.83	32.07	5.66	31.95	110	161	P	H
	*	2487.16	50.51	-3.49	54	44.73	32.07	5.66	31.95	110	161	A	H
		2480	99.18	-	-	93.4	32.07	5.66	31.95	112	286	P	V
		2480	96.14	-	-	90.36	32.07	5.66	31.95	112	286	A	V
	*	2484.08	55.45	-18.55	74	49.67	32.07	5.66	31.95	112	286	P	V
	*	2487.28	47.75	-6.25	54	41.97	32.07	5.66	31.95	112	286	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH13		4944	45.48	-28.52	74	60.74	33.7	8.94	57.9	-	-	P	H
		4960	42.62	-31.38	74	57.81	33.73	8.98	57.9	-	-	P	H
		6592	49.77	-24.23	74	61.21	35.52	11.31	58.27	-	-	P	H
		7416	45.03	-28.97	74	57.92	35.77	11.1	59.76	-	-	P	H
		7440	44.27	-29.73	74	57.23	35.78	11.12	59.86	-	-	A	H
2472MHz & BLE(2M) CH39		4944	46.18	-27.82	74	61.44	33.7	8.94	57.9	-	-	P	V
		4960	43.29	-30.71	74	58.48	33.73	8.98	57.9	-	-	P	V
		6592	51.8	-22.2	74	63.24	35.52	11.31	58.27	100	68	P	V
		6592	48.23	-5.77	54	59.67	35.52	11.31	58.27	100	68	P	V
		7416	45.85	-28.15	74	58.74	35.77	11.1	59.76	-	-	A	V
		7440	45.82	-28.18	74	58.78	35.78	11.12	59.86	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H
2412MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Margin (dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Margin (dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																					
ANT	802.11b CH01 2412MHz																																					
1	Horizontal	Fundamental																																				
Peak	<p>Site: 130403-02 Condition: PEAK_802_11b_3m_HF_ANT_3117_0107_HORIZONTAL Project: 100814-01 Model: 100814-01 IMEI: #12-G08220032165001G Plane: Y with Accessory ISM PowerRating: 19.5</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Dist</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Ant Pos</th> <th>T/Freq</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>2483.5</td> <td>53.73</td> <td>-18.23</td> <td>74.89</td> <td>48.73</td> <td>3.35</td> <td>32-20</td> <td>380</td> <td>310 Area</td> </tr> </tbody> </table>	Freq	Level	Dist	Line	Level Factor	Loss Factor	Ant Pos	T/Freq	Source	2483.5	53.73	-18.23	74.89	48.73	3.35	32-20	380	310 Area	<p>Site: 130403-02 Condition: PEAK_74_3m_HF_ANT_3117_0107_HORIZONTAL Project: 100814-01 Model: 100814-01 IMEI: #12-G08220032165001G Plane: Y with Accessory ISM PowerRating: 19.5</p> <table border="1"> <thead> <tr> <th>Freq</th> <th>Level</th> <th>Dist</th> <th>Line</th> <th>Level Factor</th> <th>Loss Factor</th> <th>Ant Pos</th> <th>T/Freq</th> <th>Source</th> </tr> </thead> <tbody> <tr> <td>2412.00</td> <td>100.43</td> <td>30.07</td> <td>74.89</td> <td>100.23</td> <td>3.35</td> <td>32-20</td> <td>380</td> <td>310 Area</td> </tr> </tbody> </table>	Freq	Level	Dist	Line	Level Factor	Loss Factor	Ant Pos	T/Freq	Source	2412.00	100.43	30.07	74.89	100.23	3.35	32-20	380	310 Area
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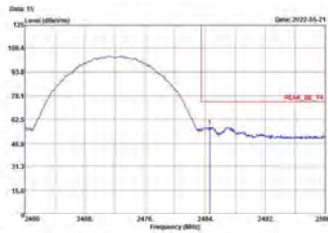
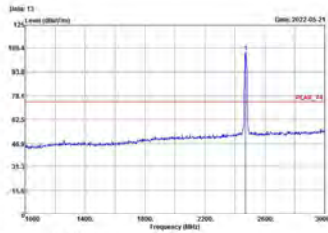
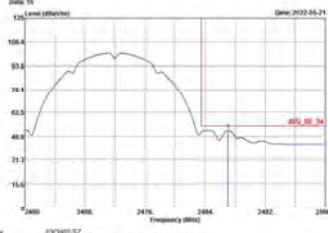
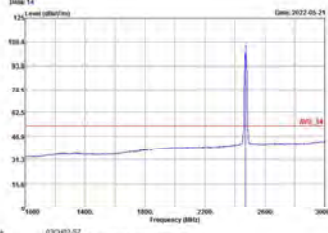


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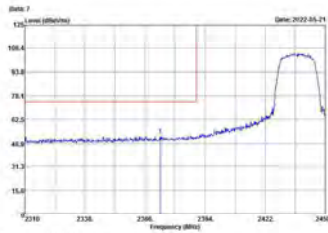
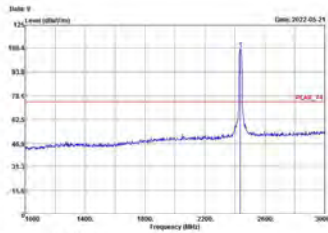
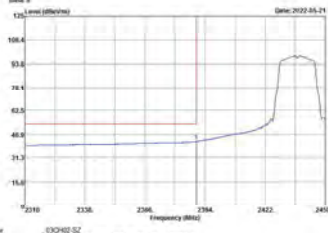
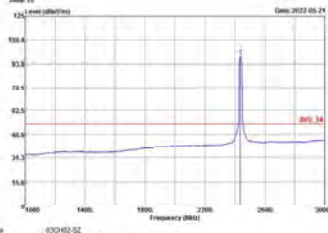


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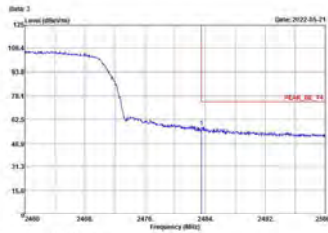
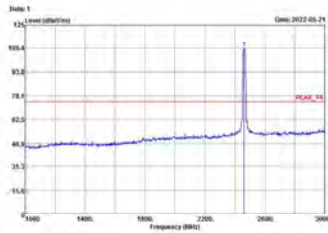
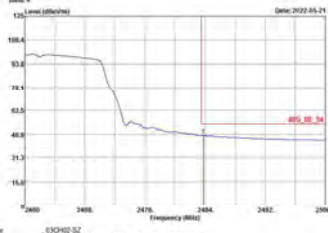
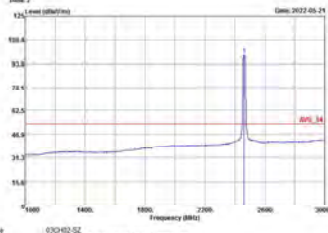


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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m															
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WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m																																									
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