

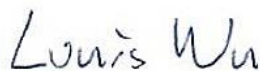


FCC RADIO TEST REPORT

FCC ID : HLZA22001
Equipment : Tablet PC
Brand Name : acer
Model Name : A22001
Marketing Name : Iconia Tab P10, P10-11
Applicant : Acer Incorporated
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist.,
New Taipei City 22181, Taiwan (R.O.C)
Manufacturer : Hunan Greatwall Computer System Co.,Ltd
Hunan GreatWall Industrial Park, Xiangyun
Middle Road, Tianyuan District, Zhuzhou,
Hunan Province, China.
Standard : FCC Part 15 Subpart C §15.247

The product was received on Oct. 25, 2022 and testing was performed from Nov. 01, 2022 to Dec. 15, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Product Feature of Equipment Under Test.....	5
1.2 Modification of EUT	5
1.3 Testing Location	5
1.4 Applicable Standards.....	5
2 Test Configuration of Equipment Under Test	6
2.1 Carrier Frequency and Channel	6
2.2 Test Mode.....	7
2.3 Connection Diagram of Test System.....	8
2.4 Support Unit used in test configuration and system	8
2.5 EUT Operation Test Setup	9
2.6 Measurement Results Explanation Example.....	9
3 Test Result	10
3.1 6dB and 99% Bandwidth Measurement	10
3.2 Output Power Measurement.....	13
3.3 Power Spectral Density Measurement	14
3.4 Conducted Band Edges and Spurious Emission Measurement	17
3.5 Radiated Band Edges and Spurious Emission Measurement	27
3.6 AC Conducted Emission Measurement.....	31
3.7 Antenna Requirements	33
4 List of Measuring Equipment.....	34
5 Uncertainty of Evaluation	36
Appendix A. Conducted Test Results	
Appendix B. AC Conducted Emission Test Result	
Appendix C. Radiated Spurious Emission	
Appendix D. Radiated Spurious Emission Plots	
Appendix E. Duty Cycle Plots	
Appendix F. Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FR2O2509C	01	Initial issue of report	Dec. 12, 2022
FR2O2509C	02	Revise Conducted Test Results	Dec. 16, 2022

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	3.15 dB under the limit at 4824.000 MHz
3.6	15.207	AC Conducted Emission	Pass	3.10 dB under the limit at 26.000 MHz
3.7	15.203	Antenna Requirement	Pass	-

Declaration of Conformity:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
- The measurement uncertainty please refer to report "Uncertainty of Evaluation".

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Lewis Ho

Report Producer: Doris Chen

1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac, and GNSS

Product Feature		
Antenna Type	WLAN: FPC Antenna	
	Bluetooth: FPC Antenna	
	GPS/Galileo/Glonass: PIFA Antenna	
Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	-0.37

Remark: The EUT's information above is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH02-HY, CO05-HY, 03CH07-HY

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

1.4 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported 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		

2.2 Test Mode

The final test modes include the worst data rates for each modulation shown in the table below.

Single Antenna

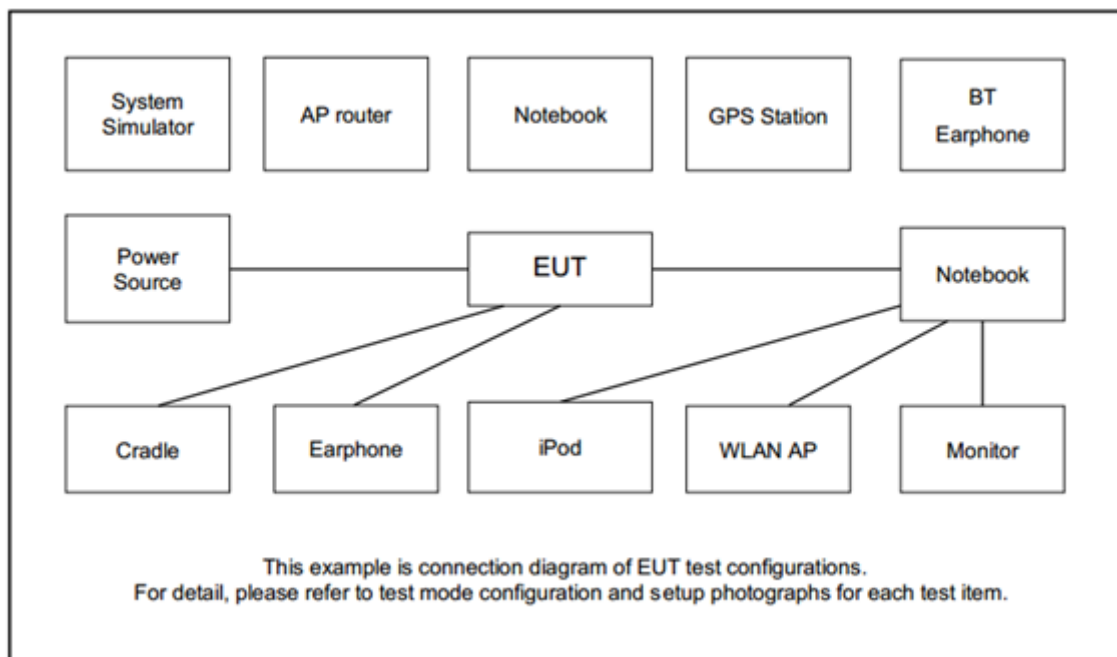
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :Bluetooth Link + WLAN (2.4GHz) Link + MPEG4 + Earphone + USB Cable (Charging from AC Adapter)

Ch. #	2400-2483.5 MHz		
	802.11b	802.11g	802.11n HT20
Low	01	01	01
Middle	06	06	06
High	11	11	11

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, make the EUT (SW: Acer_AV0S0_P10-11_0_006.00_PAPAP_GEN1.1) get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

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 4.2 dB and 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

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.

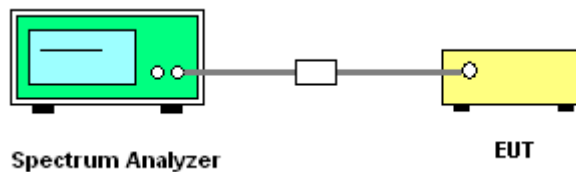
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup

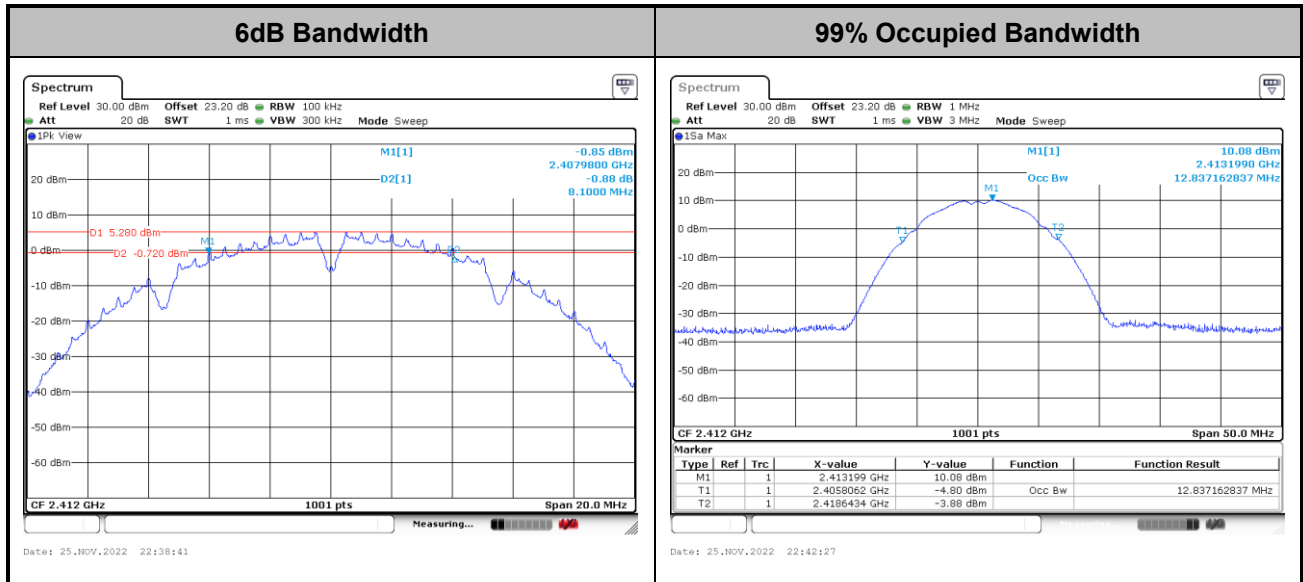




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

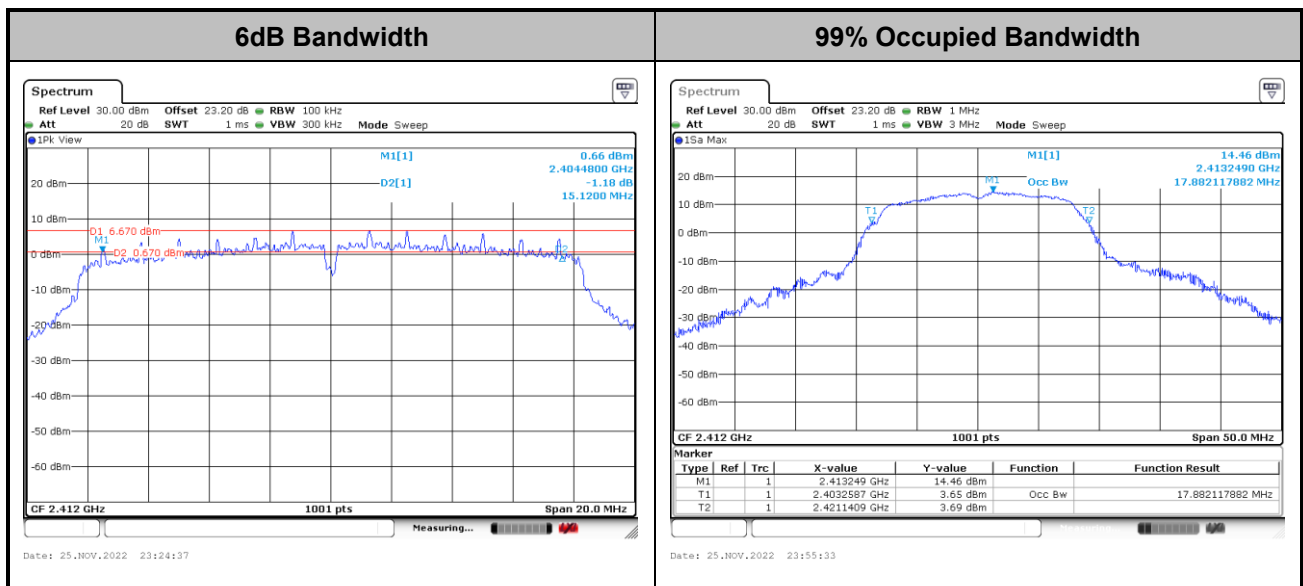
Please refer to Appendix A.

<802.11b>



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

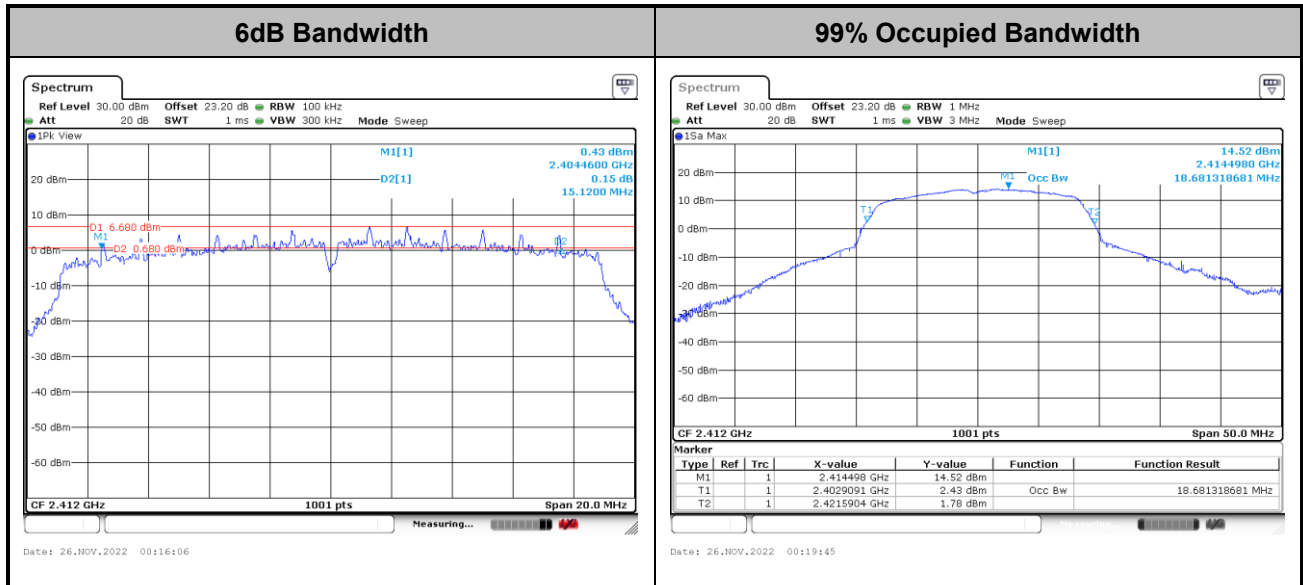
<802.11g>



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



<802.11n HT20>



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 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna with directional gain greater than 6 dBi 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 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

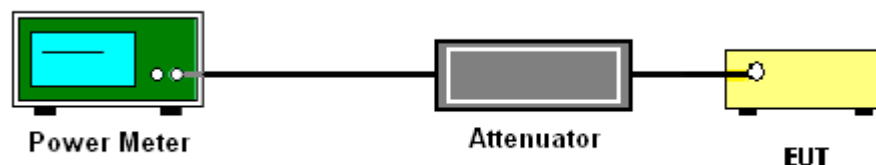
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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 8 dBm in any 3 kHz band at any time interval of continuous transmission.

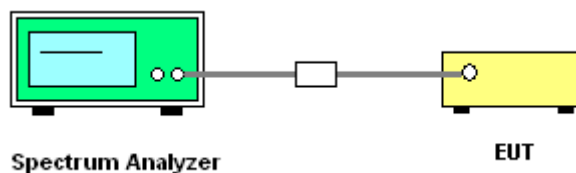
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

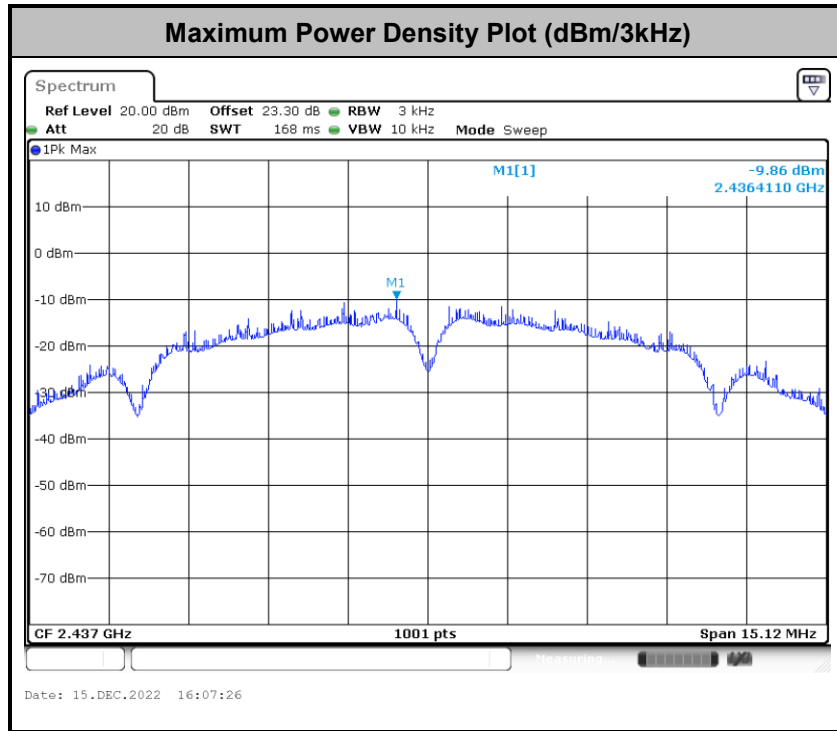
1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
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

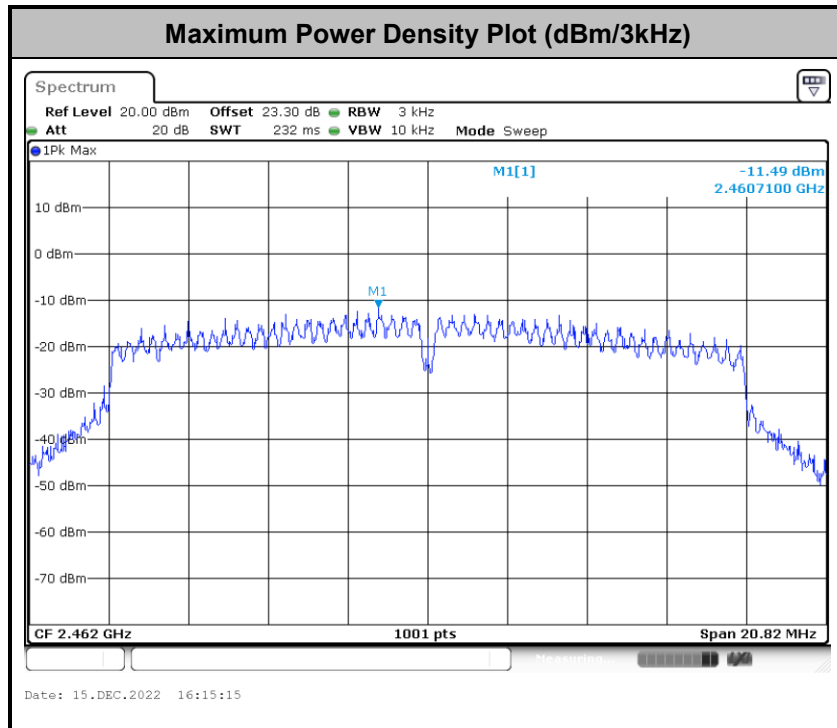


3.3.5 Test Result of Power Spectral Density

<802.11b>

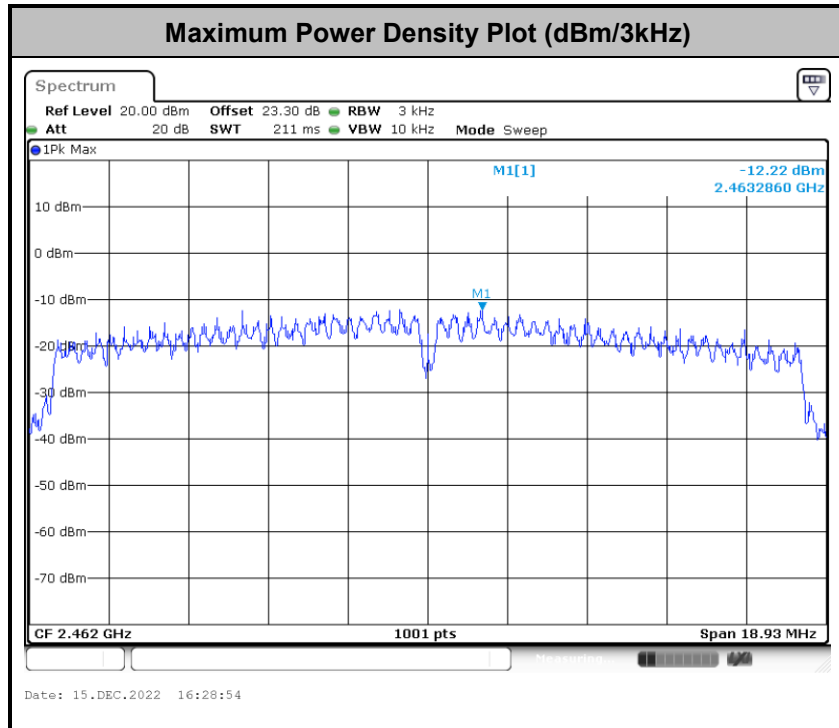


<802.11g>





<802.11n HT20>



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 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

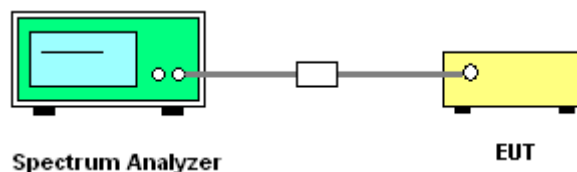
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to 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.

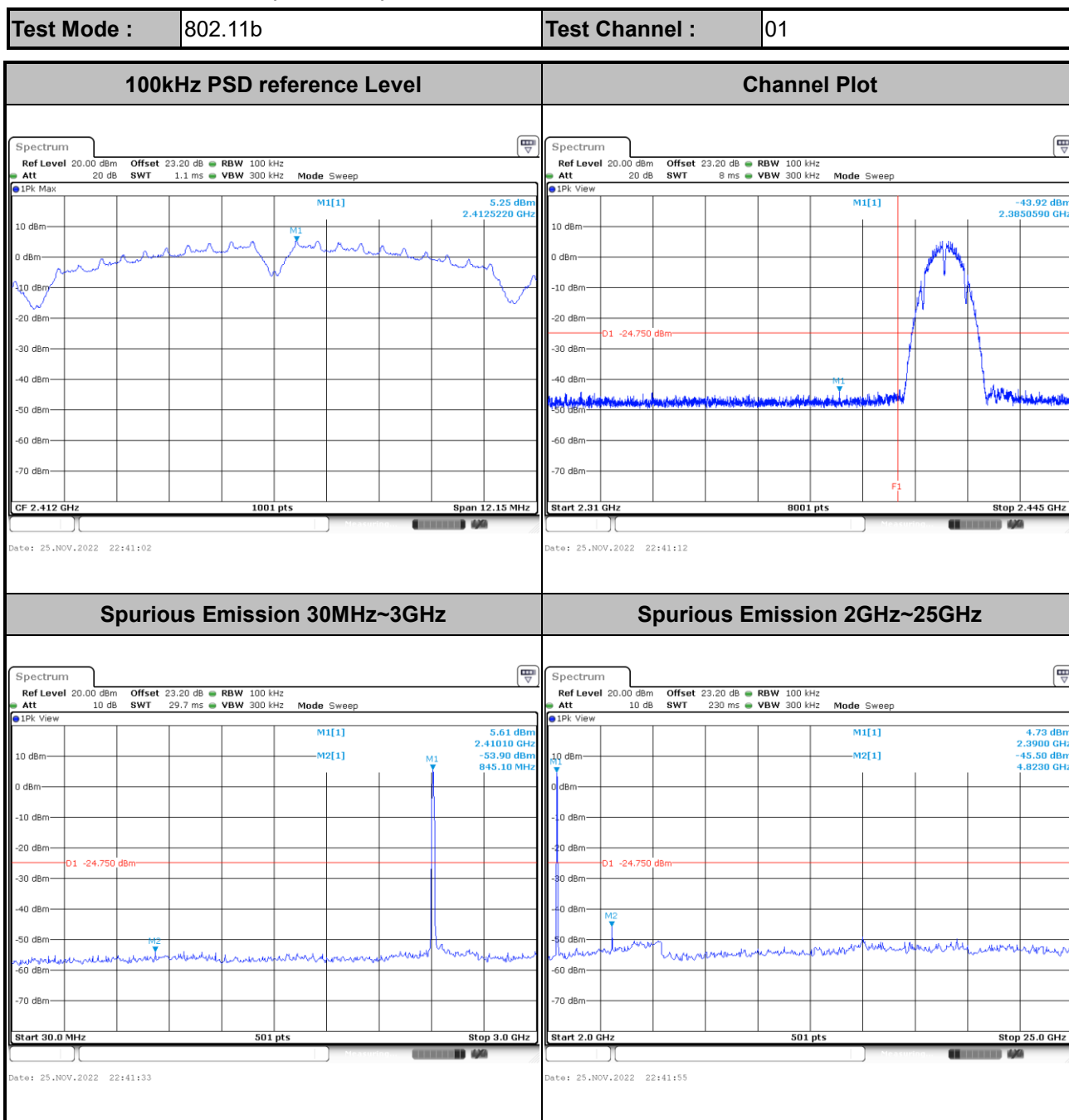
3.4.4 Test Setup





3.4.5 Test Result of Conducted Band Edges and Spurious Emission

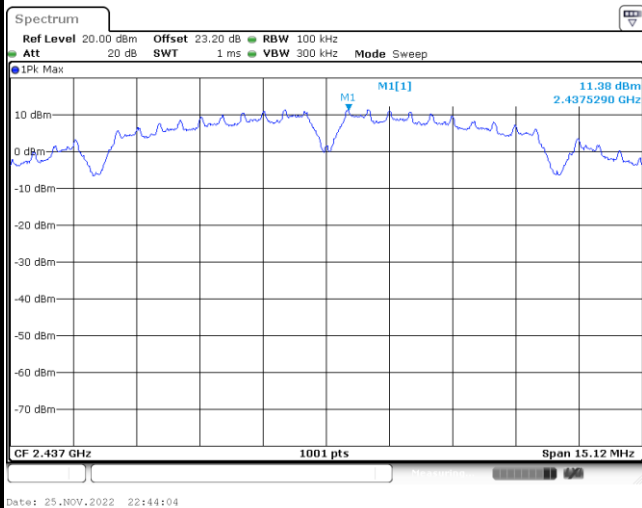
Number of TX = 1, Ant. 1 (Measured)





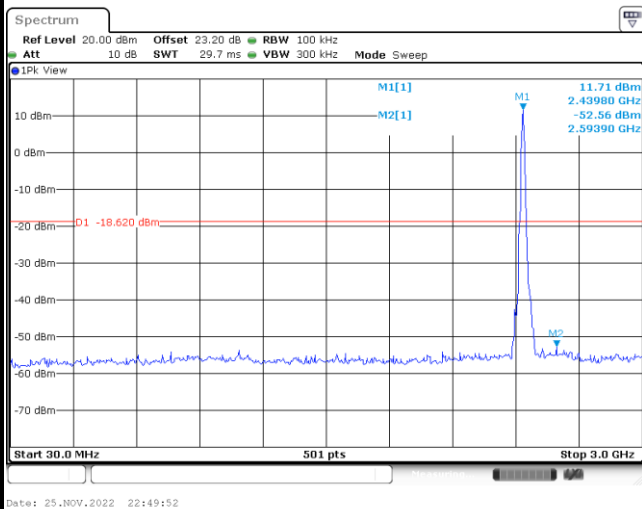
Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level

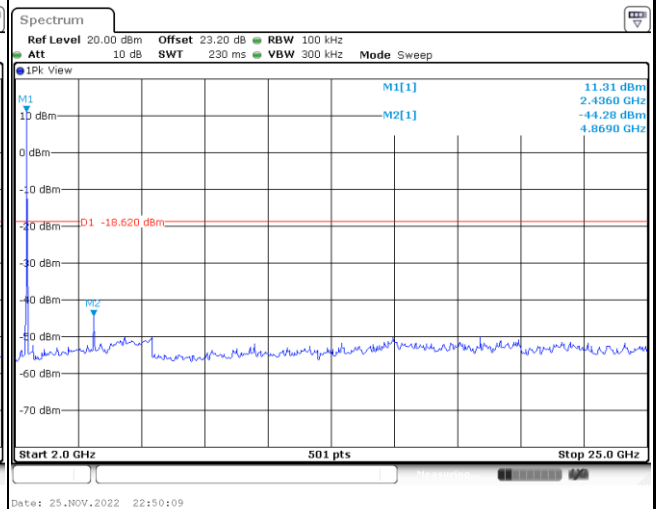


Channel Plot

Spurious Emission 30MHz~3GHz

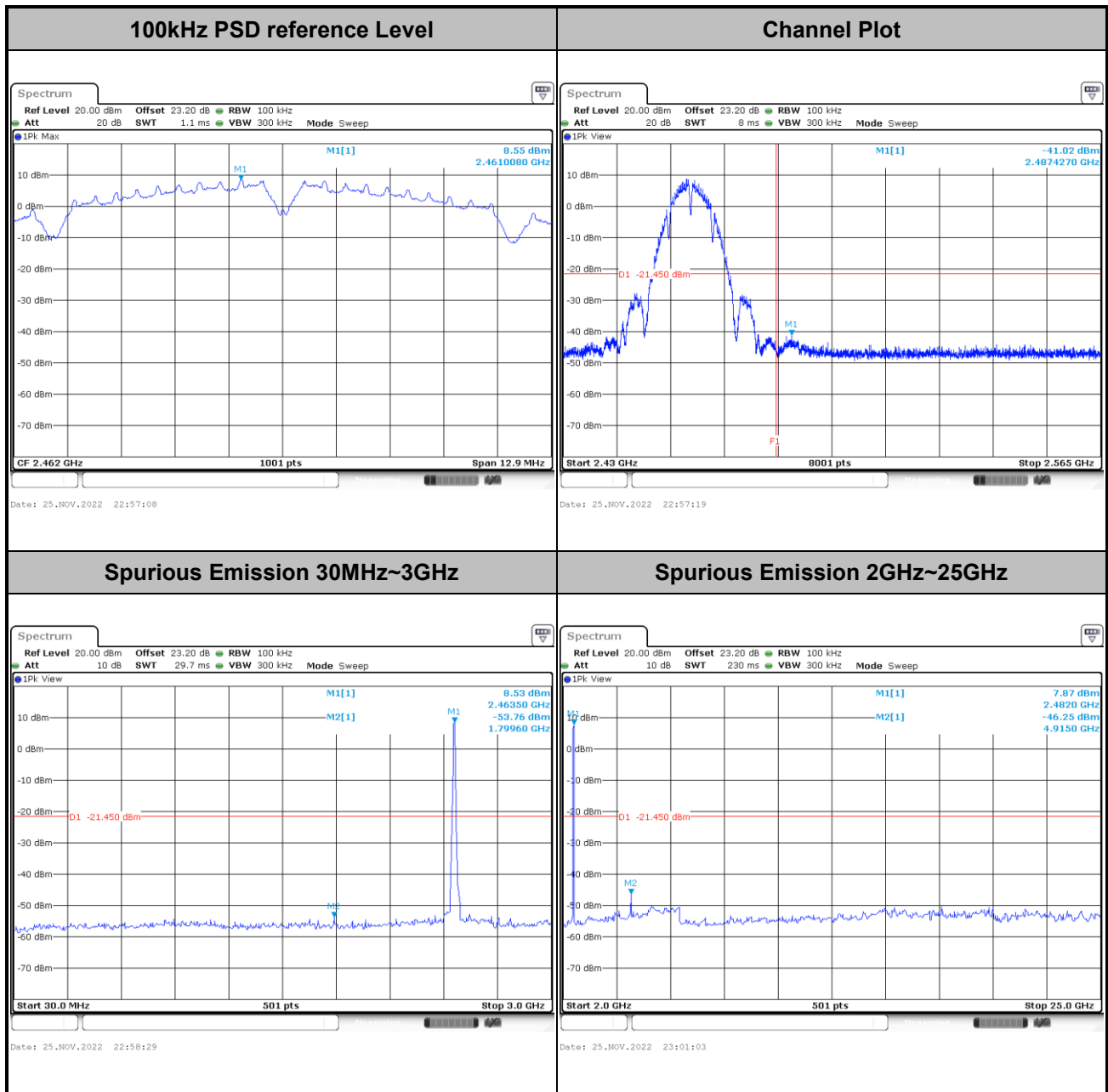


Spurious Emission 2GHz~25GHz





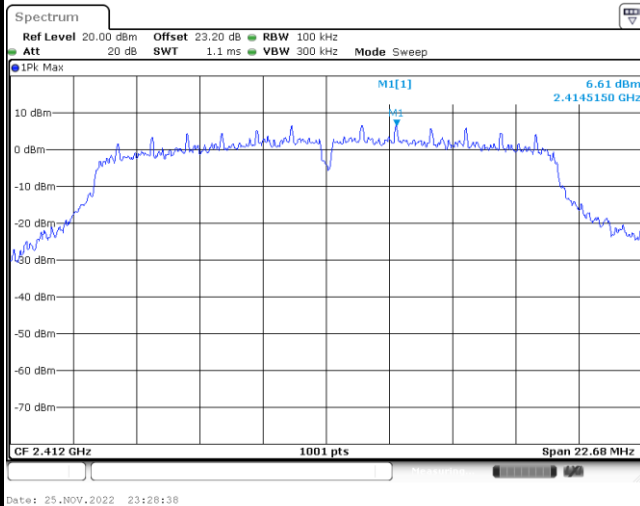
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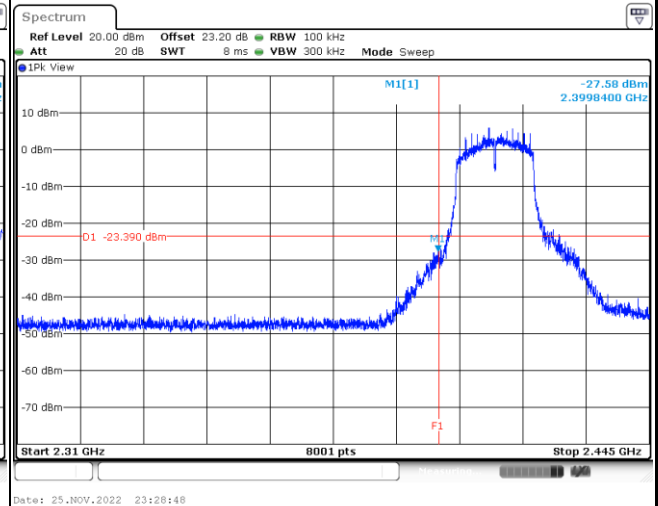


Test Mode :	802.11g	Test Channel :	01
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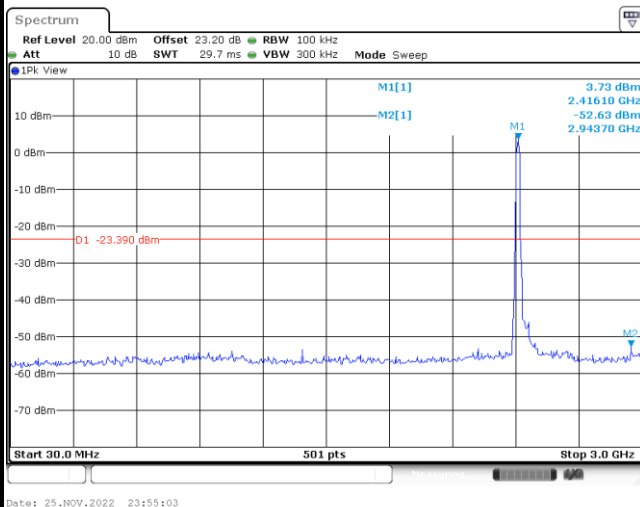
100kHz PSD reference Level



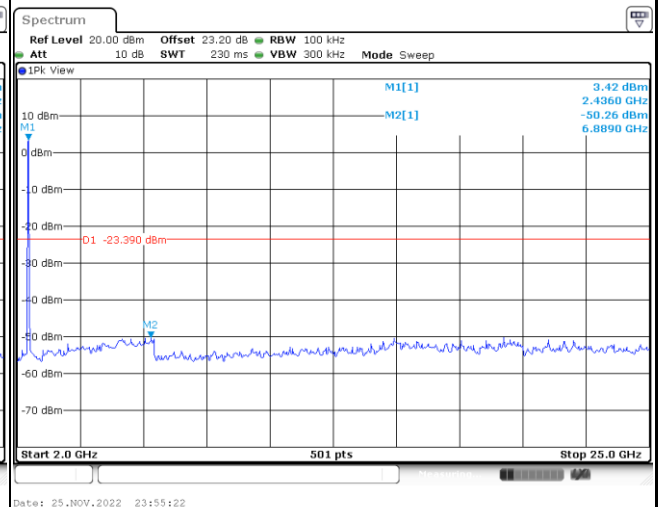
Channel Plot

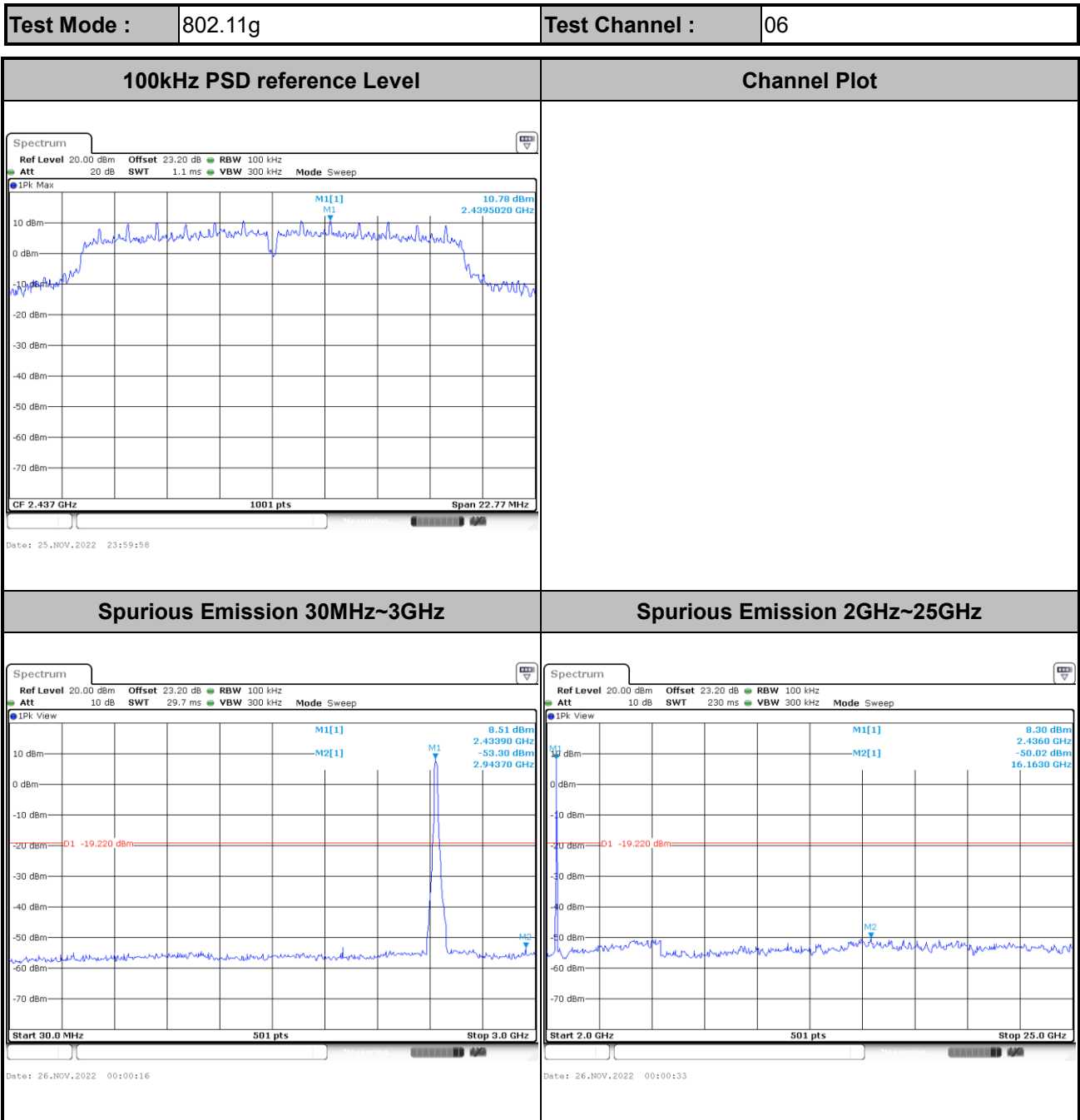


Spurious Emission 30MHz~3GHz



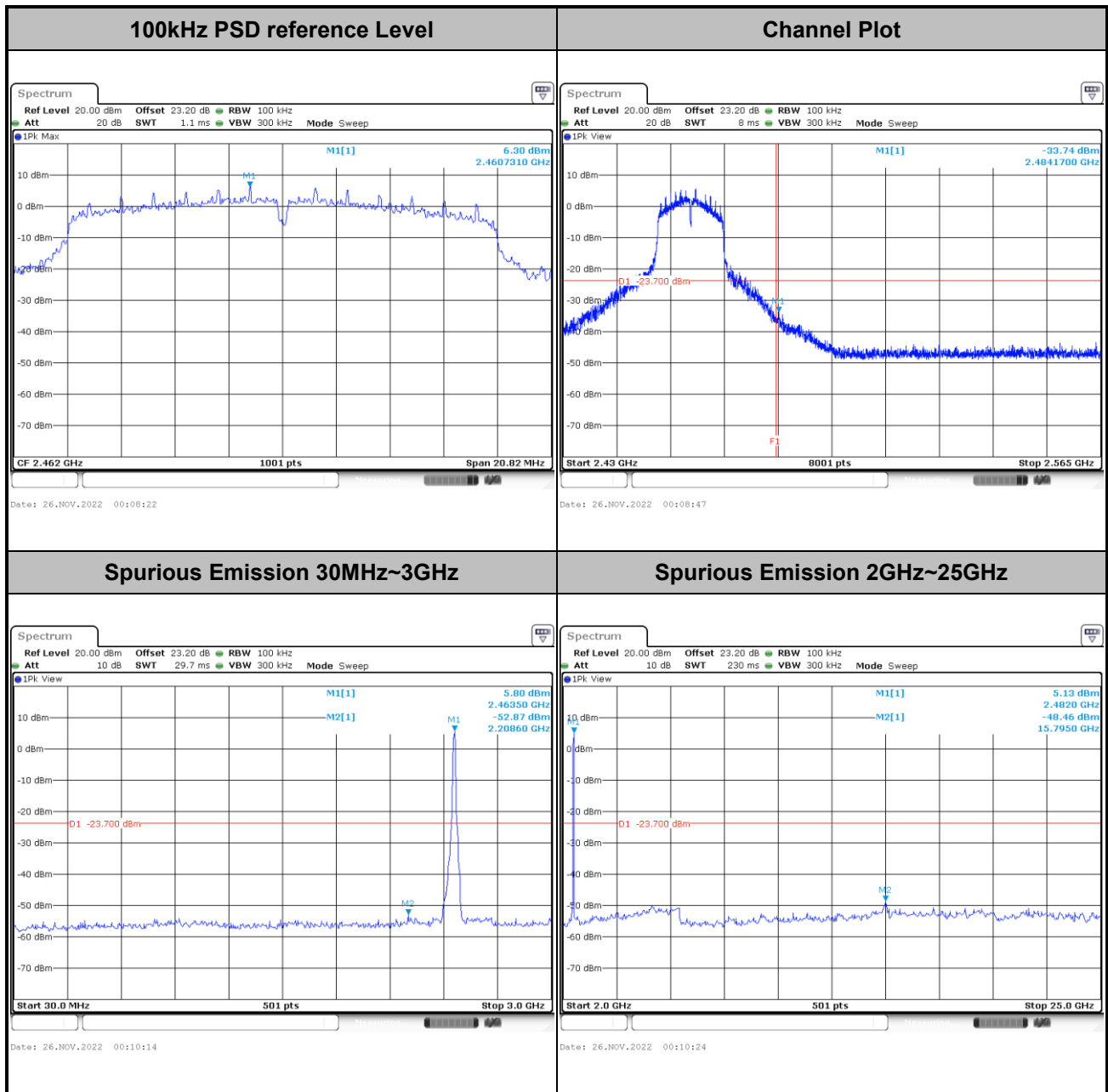
Spurious Emission 2GHz~25GHz





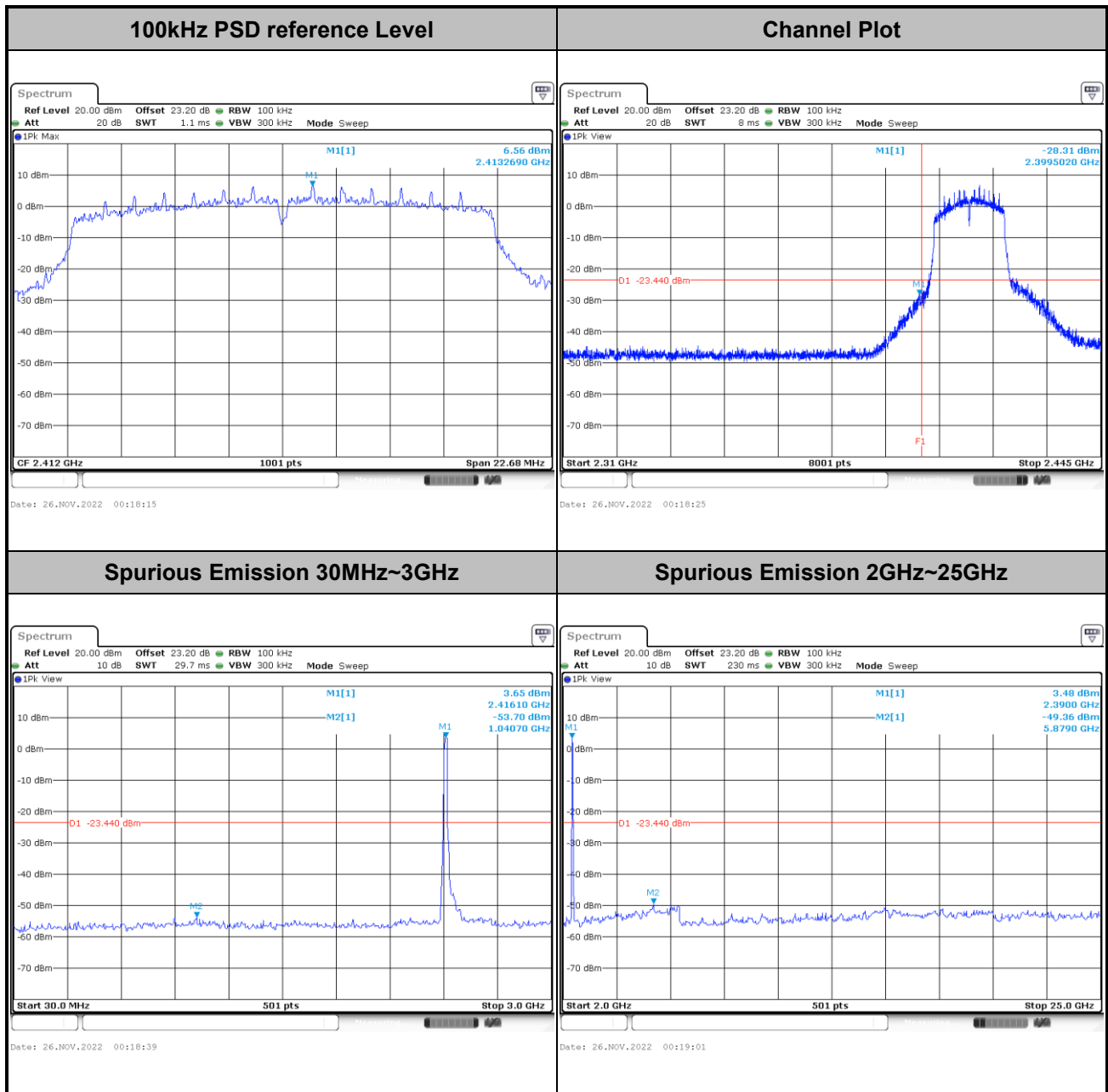


Test Mode :	802.11g	Test Channel :	11
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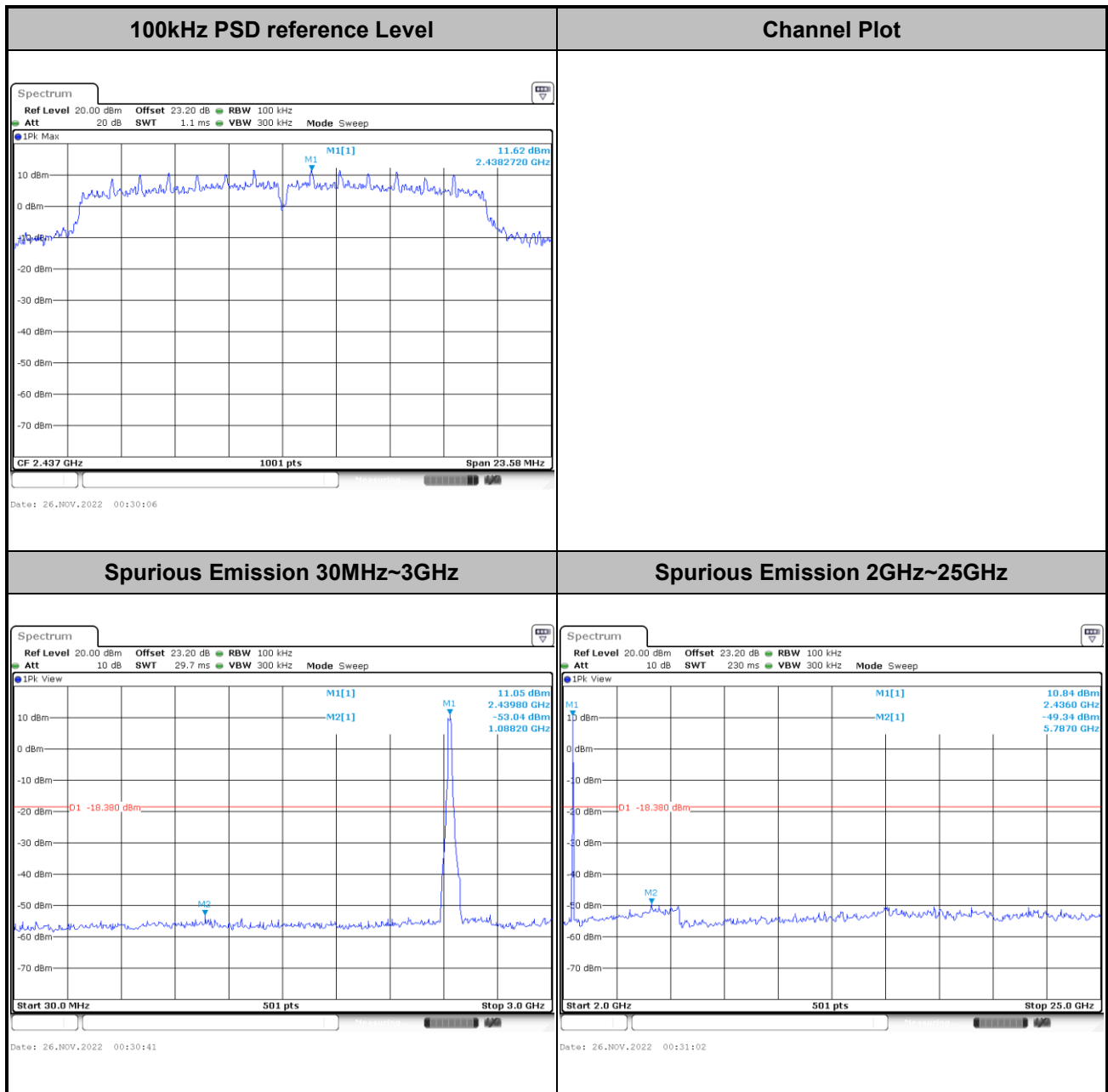


Test Mode :	802.11n HT20	Test Channel :	01
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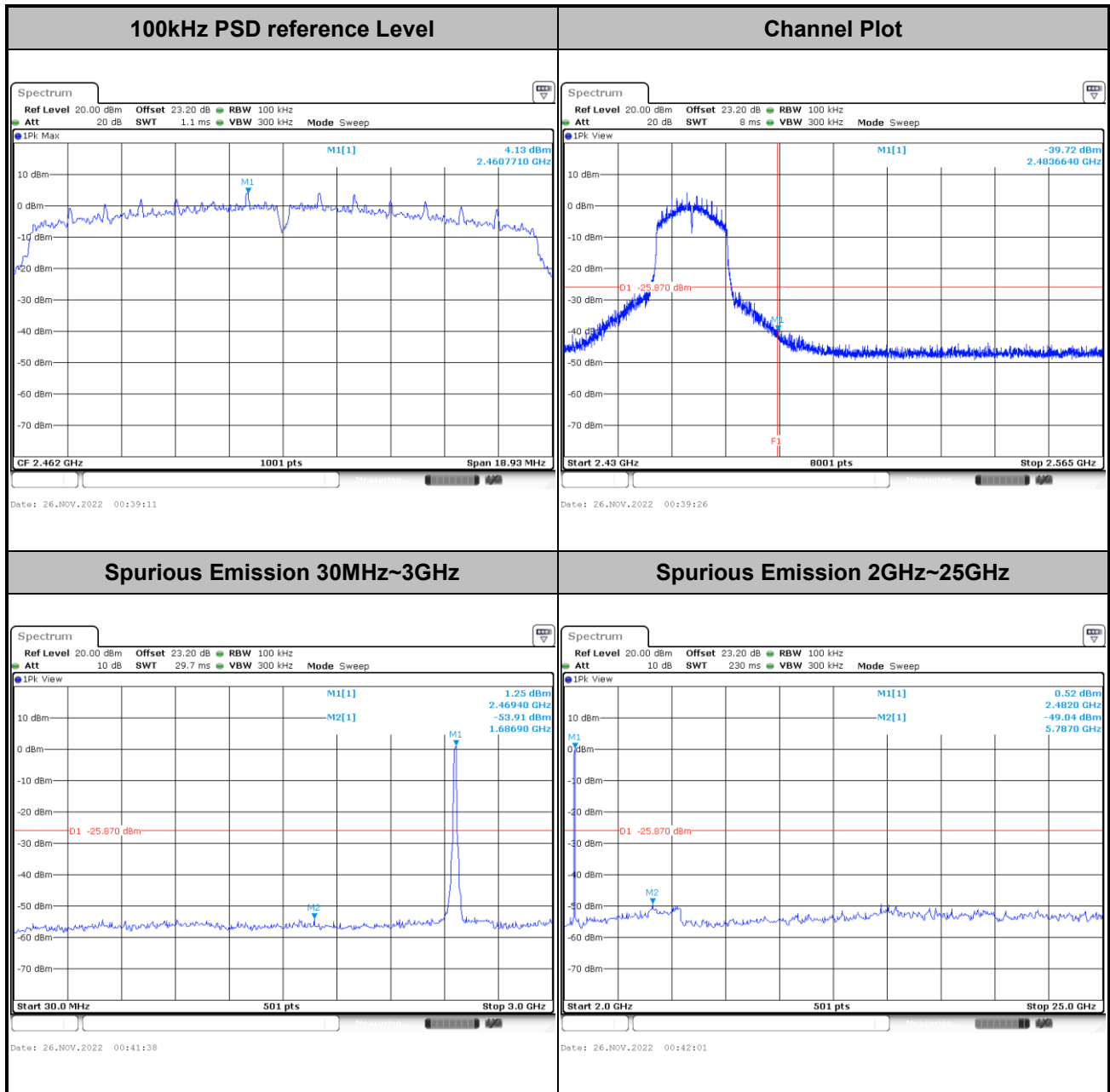


Test Mode :	802.11n HT20	Test Channel :	06
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Test Mode :	802.11n HT20	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

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 is 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

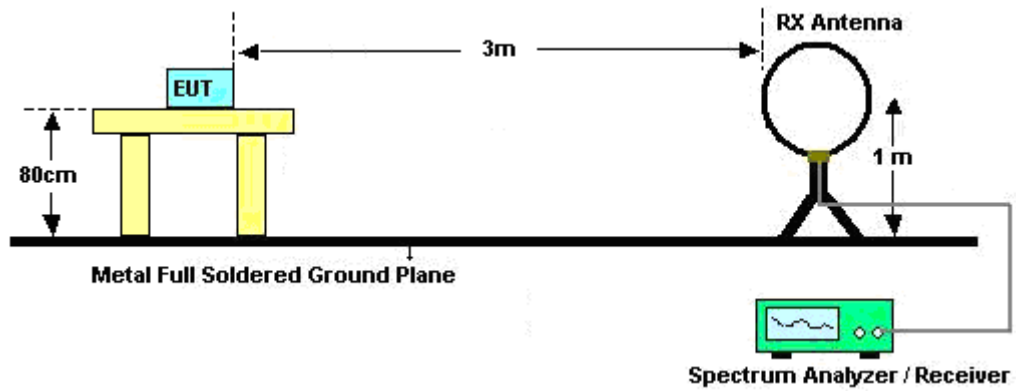
Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

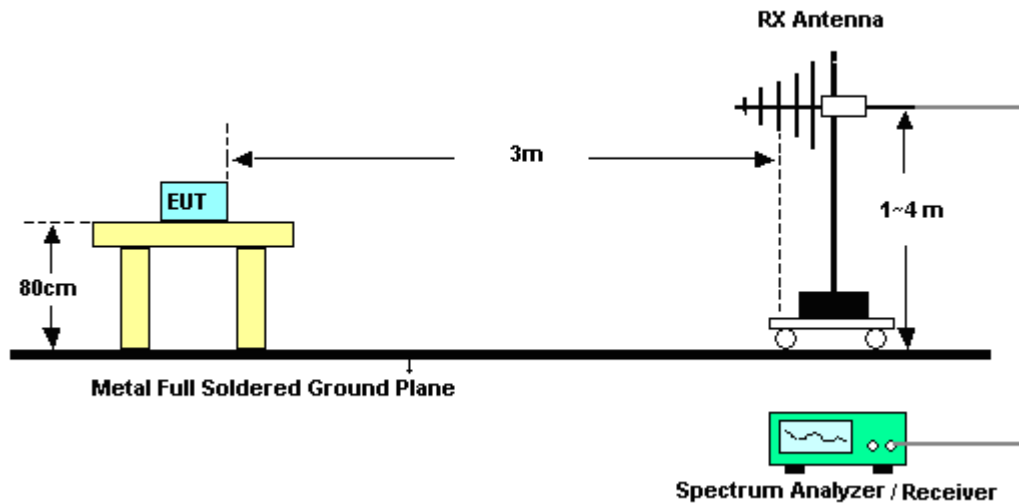
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
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 = RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f > 1$ 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

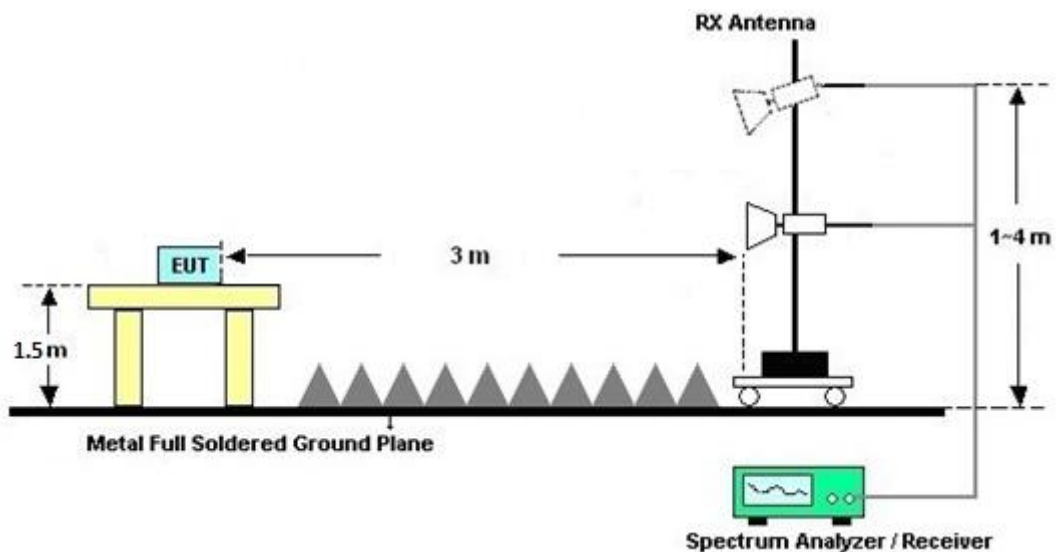
For radiated emissions below 30MHz



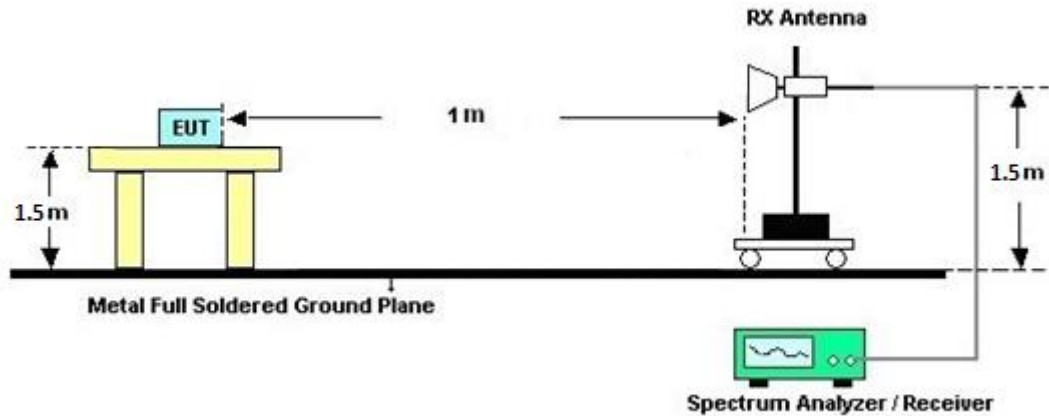
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C and 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.

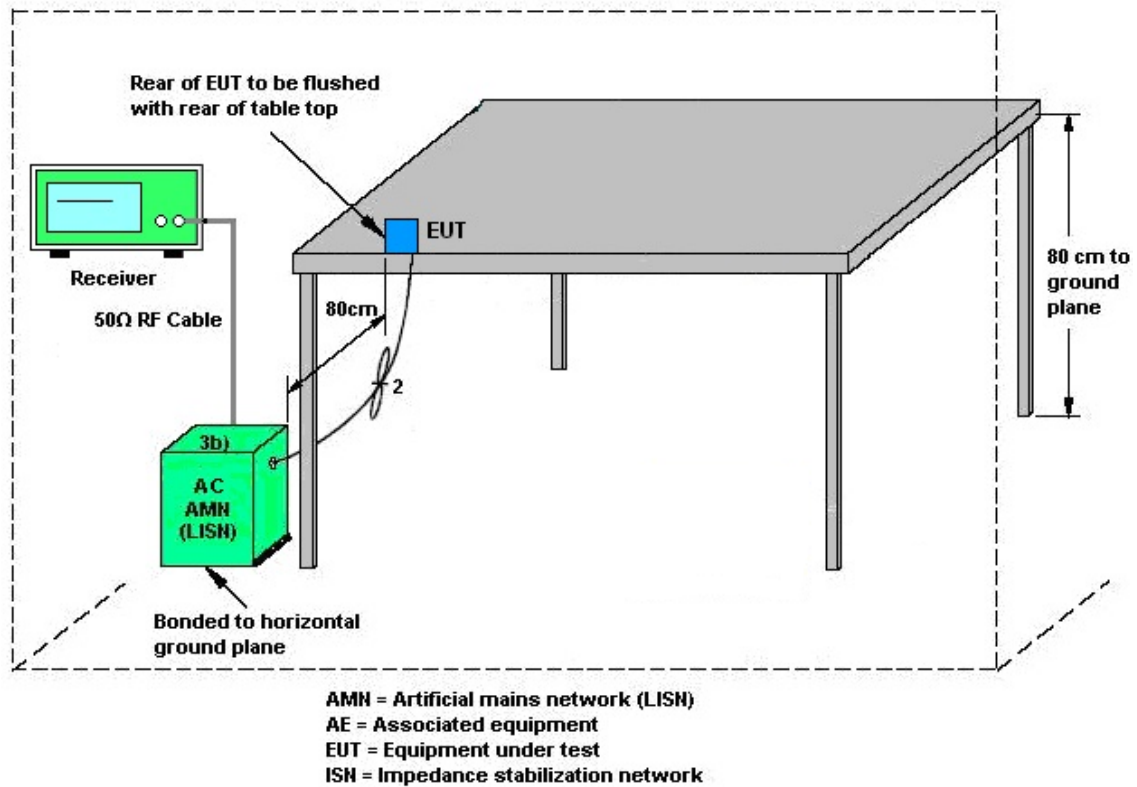
3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.6.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
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

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.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 24, 2022	Nov. 19, 2022~ Nov. 23, 2022	Apr. 23, 2023	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 03, 2021	Nov. 19, 2022~ Nov. 23, 2022	Dec. 02, 2022	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 20, 2022	Nov. 19, 2022~ Nov. 23, 2022	Sep. 19, 2023	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 21, 2022	Nov. 19, 2022~ Nov. 23, 2022	Apr. 20, 2023	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Oct. 03, 2022	Nov. 19, 2022~ Nov. 23, 2022	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 03, 2022	Nov. 19, 2022~ Nov. 23, 2022	Oct. 02, 2023	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Jul. 21, 2022	Nov. 19, 2022~ Nov. 23, 2022	Jul. 20, 2023	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jul. 22, 2022	Nov. 19, 2022~ Nov. 23, 2022	Jul. 21, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15682/4	30MHz to 18GHz	Feb. 23, 2022	Nov. 19, 2022~ Nov. 23, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4	9kHz to 18GHz	Feb. 23, 2022	Nov. 19, 2022~ Nov. 23, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4	9kHz to 18GHz	Feb. 23, 2022	Nov. 19, 2022~ Nov. 23, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 16, 2022	Nov. 19, 2022~ Nov. 23, 2022	Sep. 15, 2023	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 23, 2022	Nov. 19, 2022~ Nov. 23, 2022	Feb. 22, 2023	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Nov. 19, 2022~ Nov. 23, 2022	N/A	Radiation (03CH07-HY)
Controller	MF	MF-7802	N/A	Control Turn table	N/A	Nov. 19, 2022~ Nov. 23, 2022	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Nov. 19, 2022~ Nov. 23, 2022	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 19, 2022~ Nov. 23, 2022	N/A	Radiation (03CH07-HY)
Software	Audix	E3	N/A	N/A	N/A	Nov. 19, 2022~ Nov. 23, 2022	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	Mar. 07, 2022	Nov. 19, 2022~ Nov. 23, 2022	Mar. 06, 2023	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 27, 2022	Nov. 19, 2022~ Nov. 23, 2022	May 26, 2023	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	01224	18GHz~40GHz	Jul. 05, 2022	Nov. 19, 2022~ Nov. 23, 2022	Jul. 04, 2023	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Dec. 05, 2022	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 06, 2022	Dec. 05, 2022	Oct. 05, 2023	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 17, 2022	Dec. 05, 2022	Nov. 16, 2023	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 17, 2022	Dec. 05, 2022	Nov. 16, 2023	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Dec. 05, 2022	N/A	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	N/A	Aug. 01, 2022	Dec. 05, 2022	Jul. 31, 2023	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 30, 2021	Dec. 05, 2022	Dec. 29, 2022	Conduction (CO05-HY)
Hygrometer	TECPEL	TR-32	HE17XB2468	N/A	Mar. 18, 2022	Nov. 01, 2022~ Dec. 15, 2022	Mar. 17, 2023	Conducted (TH02-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 13 (NO:255)	10MHz~6GHz	Dec. 29, 2021	Nov. 01, 2022~ Dec. 15, 2022	Dec. 28, 2022	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz~40GHz	Sep. 13, 2022	Nov. 01, 2022~ Dec. 15, 2022	Sep. 12, 2023	Conducted (TH02-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.5 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.5 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.5 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Zhou / Ching Chen	Temperature:	21~25	°C
Test Date:	2022/11/1~2022/12/15	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant2	Ant1	Ant2		
11b	1Mbps	1	1	2412	12.84	-	8.10	-	0.50	Pass
11b	1Mbps	1	6	2437	15.88	-	10.08	-	0.50	Pass
11b	1Mbps	1	11	2462	14.19	-	8.60	-	0.50	Pass
11g	6Mbps	1	1	2412	17.88	-	15.12	-	0.50	Pass
11g	6Mbps	1	6	2437	24.28	-	15.18	-	0.50	Pass
11g	6Mbps	1	11	2462	18.13	-	13.88	-	0.50	Pass
HT20	MCS0	1	1	2412	18.68	-	15.12	-	0.50	Pass
HT20	MCS0	1	6	2437	30.12	-	15.72	-	0.50	Pass
HT20	MCS0	1	11	2462	18.38	-	12.62	-	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna																
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
					Ant1	Ant2	SUM	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	13.70	-		30.00	-	-0.37	-	13.33	-	36.00	-	Pass
11b	1Mbps	1	6	2437	13.80	-		30.00	-	-0.37	-	13.43	-	36.00	-	Pass
11b	1Mbps	1	11	2462	13.60	-		30.00	-	-0.37	-	13.23	-	36.00	-	Pass
11g	6Mbps	1	1	2412	13.80	-		30.00	-	-0.37	-	13.43	-	36.00	-	Pass
11g	6Mbps	1	6	2437	13.90	-		30.00	-	-0.37	-	13.53	-	36.00	-	Pass
11g	6Mbps	1	11	2462	14.00	-		30.00	-	-0.37	-	13.63	-	36.00	-	Pass
HT20	MCS0	1	1	2412	14.00	-		30.00	-	-0.37	-	13.63	-	36.00	-	Pass
HT20	MCS0	1	6	2437	13.80	-		30.00	-	-0.37	-	13.43	-	36.00	-	Pass
HT20	MCS0	1	11	2462	14.00	-		30.00	-	-0.37	-	13.63	-	36.00	-	Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-10.15	-		-0.37	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-9.86	-		-0.37	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-10.71	-		-0.37	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-12.58	-		-0.37	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-12.83	-		-0.37	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-11.49	-		-0.37	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-12.82	-		-0.37	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-13.15	-		-0.37	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-12.22	-		-0.37	-	8.00	-	Pass

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



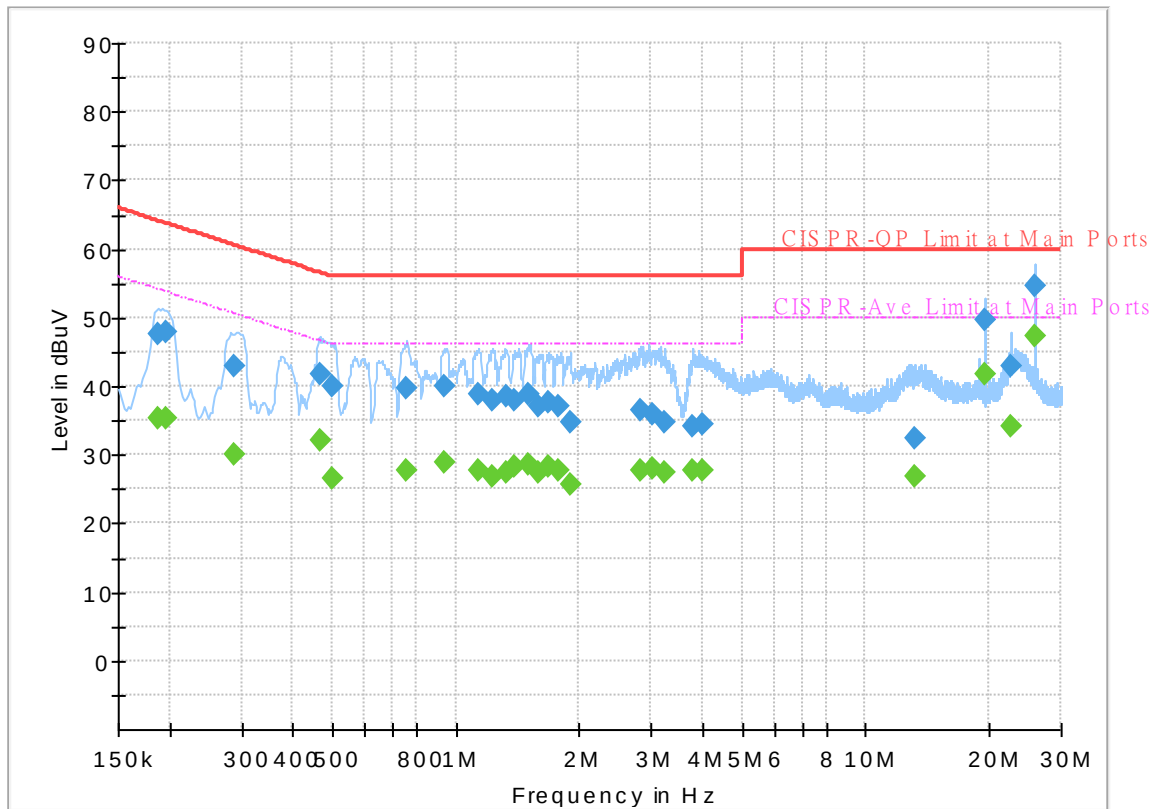
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 202509
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



Final_Result

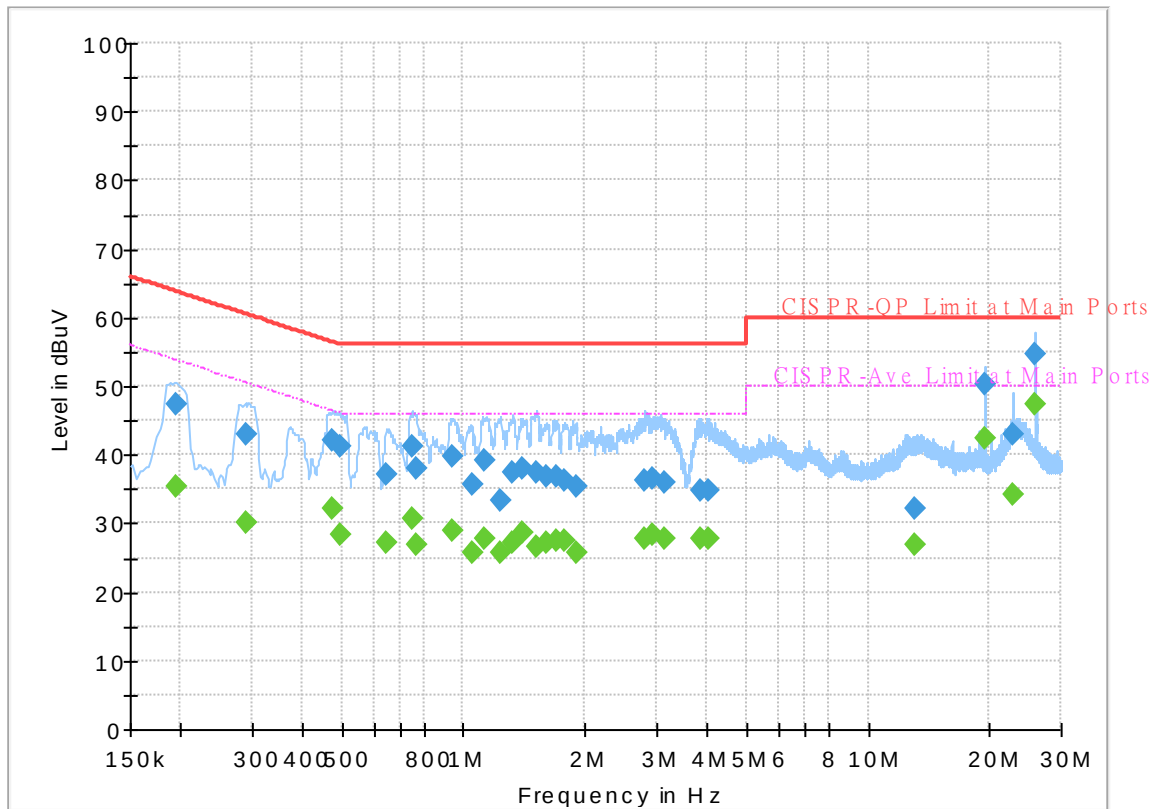
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.188250	---	35.38	54.11	18.73	L1	OFF	19.8
0.188250	47.68	---	64.11	16.43	L1	OFF	19.8
0.197250	---	35.20	53.73	18.53	L1	OFF	19.8
0.197250	48.03	---	63.73	15.70	L1	OFF	19.8
0.289500	---	30.14	50.54	20.40	L1	OFF	19.8
0.289500	43.02	---	60.54	17.52	L1	OFF	19.8
0.465000	---	32.03	46.60	14.57	L1	OFF	19.8
0.465000	41.89	---	56.60	14.71	L1	OFF	19.8
0.501000	---	26.65	46.00	19.35	L1	OFF	19.8
0.501000	39.89	---	56.00	16.11	L1	OFF	19.8
0.762000	---	27.72	46.00	18.28	L1	OFF	19.8
0.762000	39.78	---	56.00	16.22	L1	OFF	19.8
0.942000	---	28.83	46.00	17.17	L1	OFF	19.8
0.942000	39.90	---	56.00	16.10	L1	OFF	19.8
1.135500	---	27.69	46.00	18.31	L1	OFF	19.8
1.135500	38.87	---	56.00	17.13	L1	OFF	19.8
1.232250	---	26.72	46.00	19.28	L1	OFF	19.8
1.232250	38.09	---	56.00	17.91	L1	OFF	19.8
1.324500	---	27.38	46.00	18.62	L1	OFF	19.8
1.324500	38.47	---	56.00	17.53	L1	OFF	19.8
1.392000	---	28.43	46.00	17.57	L1	OFF	19.9

1.392000	37.85	---	56.00	18.15	L1	OFF	19.9
1.497750	---	28.51	46.00	17.49	L1	OFF	19.9
1.497750	38.95	---	56.00	17.05	L1	OFF	19.9
1.601250	---	27.31	46.00	18.69	L1	OFF	19.9
1.601250	36.96	---	56.00	19.04	L1	OFF	19.9
1.684500	---	28.20	46.00	17.80	L1	OFF	19.9
1.684500	37.56	---	56.00	18.44	L1	OFF	19.9
1.779000	---	27.73	46.00	18.27	L1	OFF	19.9
1.779000	37.06	---	56.00	18.94	L1	OFF	19.9
1.900500	---	25.79	46.00	20.21	L1	OFF	19.9
1.900500	34.83	---	56.00	21.17	L1	OFF	19.9
2.827500	---	27.83	46.00	18.17	L1	OFF	19.9
2.827500	36.41	---	56.00	19.59	L1	OFF	19.9
3.027750	---	27.89	46.00	18.11	L1	OFF	19.9
3.027750	35.91	---	56.00	20.09	L1	OFF	19.9
3.234750	---	27.44	46.00	18.56	L1	OFF	19.9
3.234750	34.85	---	56.00	21.15	L1	OFF	19.9
3.783750	---	27.61	46.00	18.39	L1	OFF	20.0
3.783750	34.29	---	56.00	21.71	L1	OFF	20.0
4.024500	---	27.82	46.00	18.18	L1	OFF	20.0
4.024500	34.35	---	56.00	21.65	L1	OFF	20.0
13.224750	---	26.83	50.00	23.17	L1	OFF	20.3
13.224750	32.29	---	60.00	27.71	L1	OFF	20.3
19.500000	---	41.89	50.00	8.11	L1	OFF	20.5
19.500000	49.66	---	60.00	10.34	L1	OFF	20.5
22.749000	---	34.05	50.00	15.95	L1	OFF	20.6
22.749000	43.01	---	60.00	16.99	L1	OFF	20.6
26.000250	---	46.83	50.00	3.17	L1	OFF	20.7
26.000250	54.50	---	60.00	5.50	L1	OFF	20.7

EUT Information

Report NO : 202509
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.195000	---	35.28	53.82	18.54	N	OFF	19.8
0.195000	47.51	---	63.82	16.31	N	OFF	19.8
0.289500	---	30.12	50.54	20.42	N	OFF	19.8
0.289500	42.92	---	60.54	17.62	N	OFF	19.8
0.471750	---	32.26	46.48	14.22	N	OFF	19.8
0.471750	42.18	---	56.48	14.30	N	OFF	19.8
0.494250	---	28.22	46.10	17.88	N	OFF	19.8
0.494250	41.13	---	56.10	14.97	N	OFF	19.8
0.645000	---	27.15	46.00	18.85	N	OFF	19.8
0.645000	37.09	---	56.00	18.91	N	OFF	19.8
0.744000	---	30.61	46.00	15.39	N	OFF	19.8
0.744000	41.13	---	56.00	14.87	N	OFF	19.8
0.764250	---	26.85	46.00	19.15	N	OFF	19.8
0.764250	37.94	---	56.00	18.06	N	OFF	19.8
0.937500	---	29.01	46.00	16.99	N	OFF	19.8
0.937500	39.67	---	56.00	16.33	N	OFF	19.8
1.047750	---	25.59	46.00	20.41	N	OFF	19.8
1.047750	35.60	---	56.00	20.40	N	OFF	19.8
1.133250	---	27.91	46.00	18.09	N	OFF	19.8
1.133250	39.12	---	56.00	16.88	N	OFF	19.8
1.236750	---	25.75	46.00	20.25	N	OFF	19.8

1.236750	33.21	---	56.00	22.79	N	OFF	19.8
1.315500	---	27.23	46.00	18.77	N	OFF	19.8
1.315500	37.33	---	56.00	18.67	N	OFF	19.8
1.398750	---	28.52	46.00	17.48	N	OFF	19.8
1.398750	37.93	---	56.00	18.07	N	OFF	19.8
1.520250	---	26.62	46.00	19.38	N	OFF	19.8
1.520250	37.29	---	56.00	18.71	N	OFF	19.8
1.596750	---	27.28	46.00	18.72	N	OFF	19.8
1.596750	36.71	---	56.00	19.29	N	OFF	19.8
1.698000	---	27.39	46.00	18.61	N	OFF	19.8
1.698000	36.99	---	56.00	19.01	N	OFF	19.8
1.785750	---	27.50	46.00	18.50	N	OFF	19.8
1.785750	36.34	---	56.00	19.66	N	OFF	19.8
1.893750	---	25.82	46.00	20.18	N	OFF	19.8
1.893750	35.47	---	56.00	20.53	N	OFF	19.8
2.800500	---	27.77	46.00	18.23	N	OFF	19.9
2.800500	36.21	---	56.00	19.79	N	OFF	19.9
2.949000	---	28.26	46.00	17.74	N	OFF	19.9
2.949000	36.56	---	56.00	19.44	N	OFF	19.9
3.138000	---	27.76	46.00	18.24	N	OFF	19.9
3.138000	35.92	---	56.00	20.08	N	OFF	19.9
3.855750	---	27.77	46.00	18.23	N	OFF	20.0
3.855750	34.78	---	56.00	21.22	N	OFF	20.0
4.024500	---	27.84	46.00	18.16	N	OFF	20.0
4.024500	34.86	---	56.00	21.14	N	OFF	20.0
13.071750	---	26.79	50.00	23.21	N	OFF	20.4
13.071750	32.10	---	60.00	27.90	N	OFF	20.4
19.500000	---	42.35	50.00	7.65	N	OFF	20.6
19.500000	50.23	---	60.00	9.77	N	OFF	20.6
22.749000	---	34.08	50.00	15.92	N	OFF	20.7
22.749000	43.03	---	60.00	16.97	N	OFF	20.7
26.000430	---	46.90	50.00	3.10	N	OFF	20.8
26.000430	54.66	---	60.00	5.34	N	OFF	20.8



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	21.9~24.9°C
		Relative Humidity :	57.7~61.8%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 01 2412MHz		2317.455	54.21	-19.79	74	39.75	31.53	18.25	35.32	207	0	P	H
		2390	43.11	-10.89	54	28.55	31.4	18.46	35.3	207	0	A	H
	*	2412	106.07	-	-	91.38	31.5	18.51	35.32	207	0	P	H
	*	2412	103.12	-	-	88.43	31.5	18.51	35.32	207	0	A	H
													H
													H
		2360.085	53.78	-20.22	74	39.31	31.4	18.38	35.31	298	279	P	V
		2387.385	42.9	-11.1	54	28.35	31.4	18.45	35.3	298	279	A	V
	*	2412	100.43	-	-	85.74	31.5	18.51	35.32	298	279	P	V
	*	2412	97.48	-	-	82.79	31.5	18.51	35.32	298	279	A	V
													V
													V
802.11b CH 06 2437MHz		2370.2	54.58	-19.42	74	40.09	31.4	18.4	35.31	100	32	P	H
		2389.94	46.15	-7.85	54	31.59	31.4	18.46	35.3	100	32	A	H
	*	2437	108.85	-	-	93.95	31.7	18.55	35.35	100	32	P	H
	*	2437	105.83	-	-	90.93	31.7	18.55	35.35	100	32	A	H
		2485.79	55.87	-18.13	74	40.56	32.09	18.63	35.41	100	32	P	H
		2485.72	46.03	-7.97	54	30.72	32.09	18.63	35.41	100	32	A	H
		2389.52	54.77	-19.23	74	40.21	31.4	18.46	35.3	369	360	P	V
		2389.8	44.13	-9.87	54	29.57	31.4	18.46	35.3	369	360	A	V
	*	2437	105.79	-	-	90.89	31.7	18.55	35.35	369	360	P	V
	*	2437	102.74	-	-	87.84	31.7	18.55	35.35	369	360	A	V
		2483.55	54.98	-19.02	74	39.7	32.07	18.62	35.41	369	360	P	V
		2485.65	45.3	-8.7	54	29.99	32.09	18.63	35.41	369	360	A	V



802.11b CH 11 2462MHz	*	2462	105.67	-	-	90.55	31.9	18.6	35.38	100	30	P	H
	*	2462	102.78	-	-	87.66	31.9	18.6	35.38	100	30	A	H
		2487.68	56.73	-17.27	74	41.41	32.1	18.63	35.41	100	30	P	H
		2488.76	47.07	-6.93	54	31.74	32.11	18.64	35.42	100	30	A	H
													H
													H
	*	2462	101.31	-	-	86.19	31.9	18.6	35.38	380	360	P	V
	*	2462	98.29	-	-	83.17	31.9	18.6	35.38	380	360	A	V
		2485.64	55.48	-18.52	74	40.17	32.09	18.63	35.41	380	360	P	V
		2488.72	45.55	-8.45	54	30.22	32.11	18.64	35.42	380	360	A	V
													V
													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 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 01 2412MHz		4824	52.8	-21.2	74	64.92	34.05	12.79	58.96	100	147	P	H
		4824	50.85	-3.15	54	62.97	34.05	12.79	58.96	100	147	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		4824	50.98	-23.02	74	63.1	34.05	12.79	58.96	380	69	P	V
		4824	49.95	-4.05	54	62.07	34.05	12.79	58.96	380	69	A	V
													V
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													V



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 06 2437MHz		4874	46.12	-27.88	74	58.12	34.05	12.82	58.87	-	-	P	H
		7311	42.03	-31.97	74	48.8	35.64	15.09	57.5	-	-	P	H
													H
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													H
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													H
													H
													H
		4874	45.73	-28.27	74	57.73	34.05	12.82	58.87	-	-	P	V
		7311	41.95	-32.05	74	48.72	35.64	15.09	57.5	-	-	P	V
													V
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Report No. : FR2O2509C

[illegible]



2.4GHz 2400~2483.5MHz
WIFI 802.11g (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)
802.11g CH 01 2412MHz		2390	60.5	-13.5	74	45.94	31.4	18.46	35.3	100	31	P	H
		2390	50.3	-3.7	54	35.74	31.4	18.46	35.3	100	31	A	H
	*	2412	108.97	-	-	94.28	31.5	18.51	35.32	100	31	P	H
	*	2412	101.45	-	-	86.76	31.5	18.51	35.32	100	31	A	H
													H
													H
		2389.485	55	-19	74	40.44	31.4	18.46	35.3	387	18	P	V
		2389.8	45.04	-8.96	54	30.48	31.4	18.46	35.3	387	18	A	V
	*	2412	104.58	-	-	89.89	31.5	18.51	35.32	387	18	P	V
	*	2412	97.13	-	-	82.44	31.5	18.51	35.32	387	18	A	V
													V
													V
802.11g CH 06 2437MHz		2389.94	58.08	-15.92	74	43.52	31.4	18.46	35.3	153	30	P	H
		2389.94	49.06	-4.94	54	34.5	31.4	18.46	35.3	153	30	A	H
	*	2437	112.09	-	-	97.19	31.7	18.55	35.35	153	30	P	H
	*	2437	104.75	-	-	89.85	31.7	18.55	35.35	153	30	A	H
		2484.95	61.03	-12.97	74	45.73	32.08	18.63	35.41	153	30	P	H
		2484.53	49.59	-4.41	54	34.29	32.08	18.63	35.41	153	30	A	H
		2373.14	54.58	-19.42	74	40.07	31.4	18.42	35.31	303	359	P	V
		2389.94	46.02	-7.98	54	31.46	31.4	18.46	35.3	303	359	A	V
	*	2437	106.62	-	-	91.72	31.7	18.55	35.35	303	359	P	V
	*	2437	99.74	-	-	84.84	31.7	18.55	35.35	303	359	A	V
		2483.5	55.54	-18.46	74	40.26	32.07	18.62	35.41	303	359	P	V
		2490.97	45.78	-8.22	54	30.43	32.13	18.64	35.42	303	359	A	V



802.11g CH 11 2462MHz	*	2462	106.79	-	-	91.67	31.9	18.6	35.38	100	30	P	H
	*	2462	99.77	-	-	84.65	31.9	18.6	35.38	100	30	A	H
		2483.56	61.93	-12.07	74	46.65	32.07	18.62	35.41	100	30	P	H
		2483.52	49.72	-4.28	54	34.44	32.07	18.62	35.41	100	30	A	H
													H
													H
	*	2462	101.72	-	-	86.6	31.9	18.6	35.38	380	6	P	V
	*	2462	95.05	-	-	79.93	31.9	18.6	35.38	380	6	A	V
		2484.24	57.32	-16.68	74	42.03	32.07	18.63	35.41	380	6	P	V
		2483.52	47.11	-6.89	54	31.83	32.07	18.62	35.41	380	6	A	V
													V
													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)**

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 01 2412MHz		4824	50.83	-23.17	74	62.95	34.05	12.79	58.96	100	147	P	H
		4824	41.27	-12.73	54	53.39	34.05	12.79	58.96	100	147	A	H
													H
													H
													H
													H
													H
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													H
		4824	50.01	-23.99	74	62.13	34.05	12.79	58.96	380	69	P	V
		4824	40.3	-13.7	54	52.42	34.05	12.79	58.96	380	69	A	V
													V
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													V



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 06 2437MHz		4874	51.69	-22.31	74	63.69	34.05	12.82	58.87	100	142	P	H
		4874	42.45	-11.55	54	54.45	34.05	12.82	58.87	100	142	A	H
		7311	41.87	-32.13	74	48.64	35.64	15.09	57.5	-	-	P	H
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		4874	52.59	-21.41	74	64.59	34.05	12.82	58.87	400	72	P	V
		4874	42.59	-11.41	54	54.59	34.05	12.82	58.87	400	72	A	V
		7311	41.64	-32.36	74	48.41	35.64	15.09	57.5	-	-	P	V
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Report No. : FR2O2509C

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 11 2462MHz		4924	50.2	-23.8	74	62.09	34.05	12.84	58.78	100	147	P	H	
		4924	40.48	-13.52	54	52.37	34.05	12.84	58.78	100	147	A	H	
		7386	41.78	-32.22	74	48.41	35.87	15.05	57.55	-	-	P	H	
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		4924	48.18	-25.82	74	60.07	34.05	12.84	58.78	363	62	62	P	V
		4924	39.63	-14.37	54	51.52	34.05	12.84	58.78	363	62	62	A	V
		7386	41.97	-32.03	74	48.6	35.87	15.05	57.55	-	-	-	P	V
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2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (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)
802.11n HT20 CH 01 2412MHz		2389.905	62.92	-11.08	74	48.36	31.4	18.46	35.3	121	33	P	H
		2390	49.9	-4.1	54	35.34	31.4	18.46	35.3	121	33	A	H
	*	2412	108.48	-	-	93.79	31.5	18.51	35.32	121	33	P	H
	*	2412	100.69	-	-	86	31.5	18.51	35.32	121	33	A	H
													H
													H
		2390	58.22	-15.78	74	43.66	31.4	18.46	35.3	385	360	P	V
		2390	46.94	-7.06	54	32.38	31.4	18.46	35.3	385	360	A	V
	*	2412	106.16	-	-	91.47	31.5	18.51	35.32	385	360	P	V
	*	2412	98.6	-	-	83.91	31.5	18.51	35.32	385	360	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.8	60.47	-13.53	74	45.91	31.4	18.46	35.3	100	113	P	H
		2389.8	49.5	-4.5	54	34.94	31.4	18.46	35.3	100	113	A	H
	*	2437	110.07	-	-	95.17	31.7	18.55	35.35	100	113	P	H
	*	2437	102.23	-	-	87.33	31.7	18.55	35.35	100	113	A	H
		2486.14	61.75	-12.25	74	46.44	32.09	18.63	35.41	100	113	P	H
		2484.25	49.66	-4.34	54	34.37	32.07	18.63	35.41	100	113	A	H
		2388.96	55.53	-18.47	74	40.98	31.4	18.45	35.3	369	360	P	V
		2389.94	46.65	-7.35	54	32.09	31.4	18.46	35.3	369	360	A	V
	*	2437	108.42	-	-	93.52	31.7	18.55	35.35	369	360	P	V
	*	2437	100.72	-	-	85.82	31.7	18.55	35.35	369	360	A	V
		2484.39	62.54	-11.46	74	47.24	32.08	18.63	35.41	369	360	P	V
		2483.5	49.28	-4.72	54	34	32.07	18.62	35.41	369	360	A	V



802.11n HT20 CH 11 2462MHz	*	2462	102.9	-	-	87.78	31.9	18.6	35.38	100	32	P	H
	*	2462	95.91	-	-	80.79	31.9	18.6	35.38	100	32	A	H
		2483.76	60.49	-13.51	74	45.21	32.07	18.62	35.41	100	32	P	H
		2483.52	48.94	-5.06	54	33.66	32.07	18.62	35.41	100	32	A	H
													H
													H
	*	2462	99.78	-	-	84.66	31.9	18.6	35.38	332	360	P	V
	*	2462	92.91	-	-	77.79	31.9	18.6	35.38	332	360	A	V
		2483.92	58.06	-15.94	74	42.78	32.07	18.62	35.41	332	360	P	V
		2483.56	47.39	-6.61	54	32.11	32.07	18.62	35.41	332	360	A	V
													V
													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 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 01 2412MHz		4824	49.04	-24.96	74	61.16	34.05	12.79	58.96	100	142	P	H
		4824	39.98	-14.02	54	52.1	34.05	12.79	58.96	100	142	A	H
													H
													H
													H
													H
		4824	47.7	-26.3	74	59.82	34.05	12.79	58.96	-	-	P	V
													V
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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 06 2437MHz		4874	53.1	-20.9	74	65.1	34.05	12.82	58.87	100	142	P	H
		4874	42.89	-11.11	54	54.89	34.05	12.82	58.87	100	142	A	H
		7311	42.22	-31.78	74	48.99	35.64	15.09	57.5	-	-	P	H
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													H
		4874	52.86	-21.14	74	64.86	34.05	12.82	58.87	400	72	P	V
		4874	42.85	-11.15	54	54.85	34.05	12.82	58.87	400	72	A	V
		7311	41.76	-32.24	74	48.53	35.64	15.09	57.5	-	-	P	V
													V
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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 11 2462MHz		4924	41.48	-32.52	74	53.37	34.05	12.84	58.78	-	-	P	H
		7386	41.53	-32.47	74	48.16	35.87	15.05	57.55	-	-	P	H
													H
													H
													H
													H
													H
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													H
													H
													H
													H
		4924	41.46	-32.54	74	53.35	34.05	12.84	58.78	-	-	P	V
		7386	40.85	-33.15	74	47.48	35.87	15.05	57.55	-	-	P	V
													V
													V
													V
													V
													V
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													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.												

Emission above 18GHz

2.4GHz WIFI 802.11b (SHF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b SHF		24874	38.36	-35.64	74	47.18	39.44	9.24	57.5	-	-	P	H
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		24419	37.8	-36.2	74	47.62	39.02	9.01	57.85	-	-	P	V
													V
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Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

[illegible]



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 over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



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.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(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													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

$$1. \text{ Path Loss(dB)} = \text{Cable loss(dB)} + \text{Filter loss(dB)} + \text{Attenuator loss(dB)}$$

$$2. \text{ Level(dB}\mu\text{V/m)} =$$

$$\text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$3. \text{ Margin(dB)} = \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 55.45(\text{dB}\mu\text{V/m})$$

$$2. \text{ Margin (dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 55.45(\text{dB}\mu\text{V/m}) - 74(\text{dB}\mu\text{V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

$$1. \text{ Level(dB}\mu\text{V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86(\text{dB})$$

$$= 43.54(\text{dB}\mu\text{V/m})$$

$$2. \text{ Margin (dB)}$$

$$= \text{Level(dB}\mu\text{V/m)} - \text{Limit Line(dB}\mu\text{V/m)}$$

$$= 43.54(\text{dB}\mu\text{V/m}) - 54(\text{dB}\mu\text{V/m})$$

$$= -10.46(\text{dB})$$

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



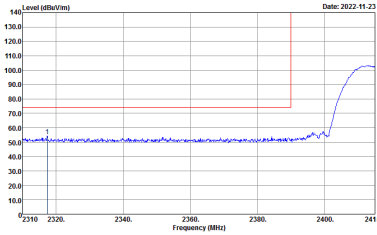
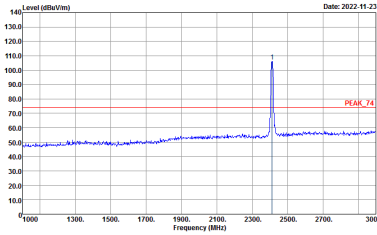
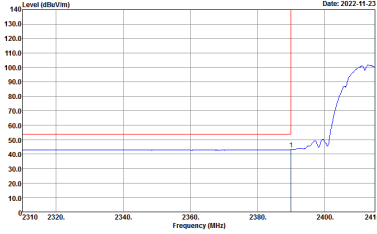
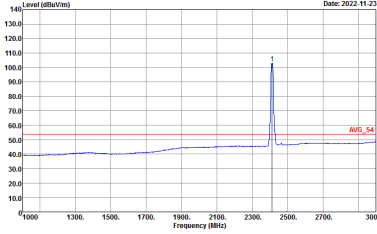
Appendix D. Radiated Spurious Emission Plots

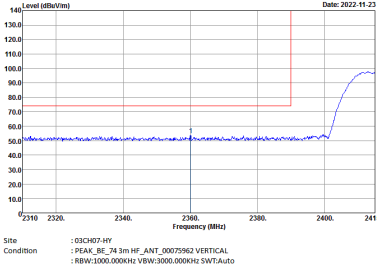
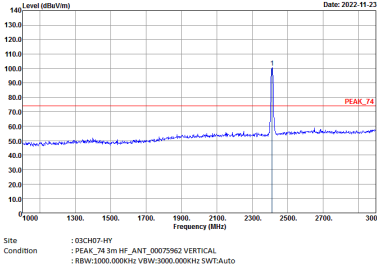
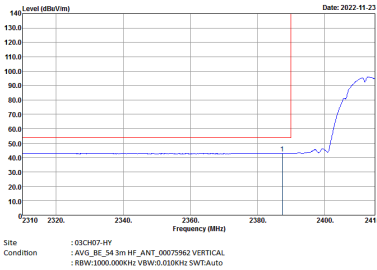
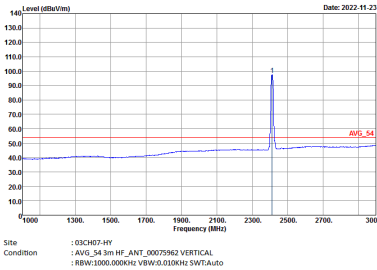
Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	21.9~24.9°C
		Relative Humidity :	57.7~61.8%

Note symbol

-L	Low channel location
-R	High channel location

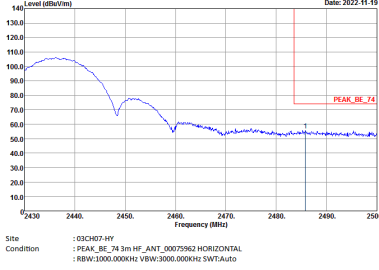
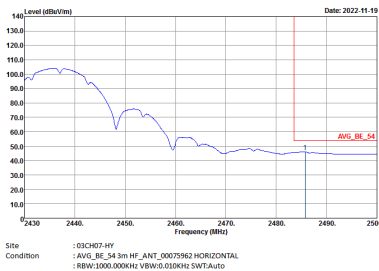
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:0.010kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:0.010kHz SWTAuto



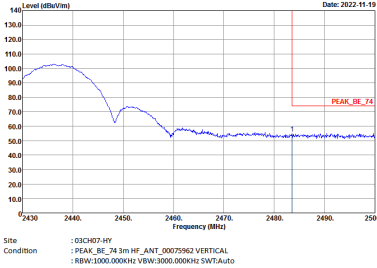
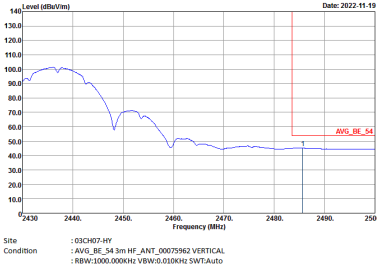
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.000kHz SWTAuto	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.000kHz SWTAuto

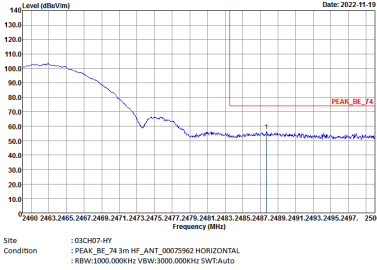
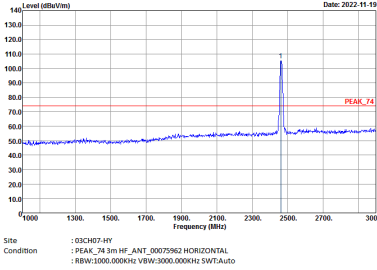
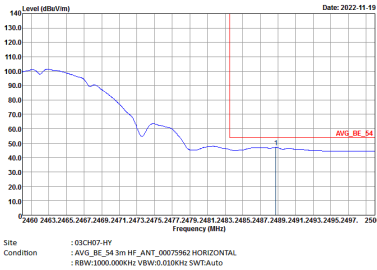
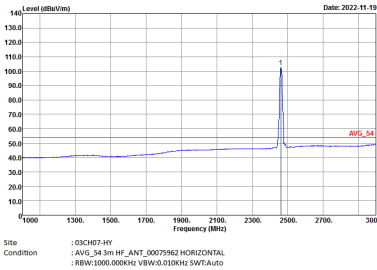
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

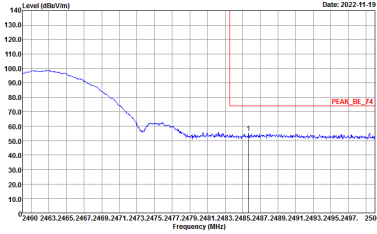
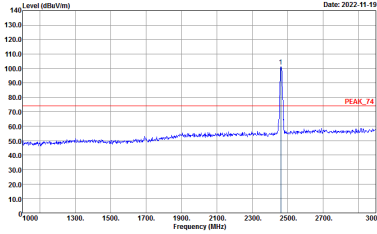
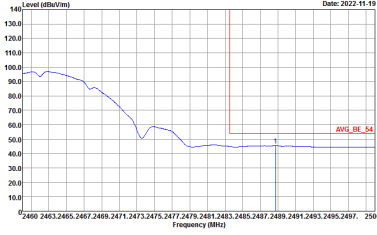
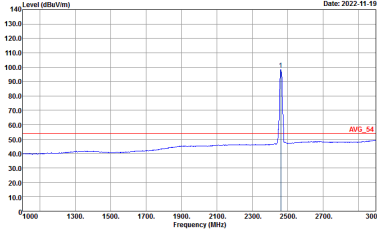


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto



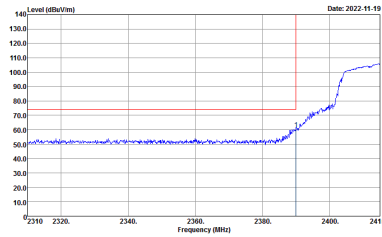
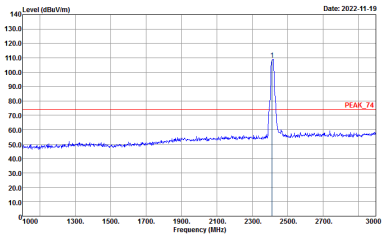
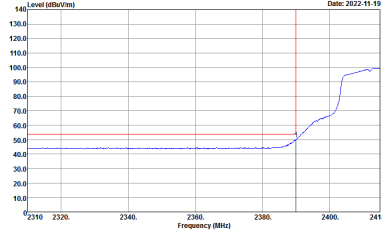
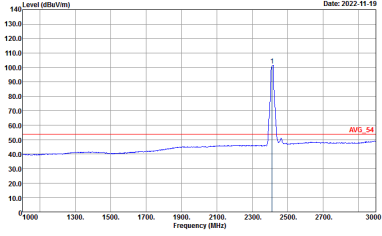
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-RV Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg.	 Site : 03CH07-RV Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.000kHz SWTAuto	Left blank

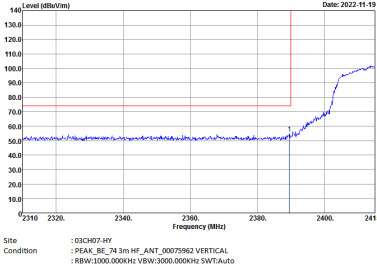
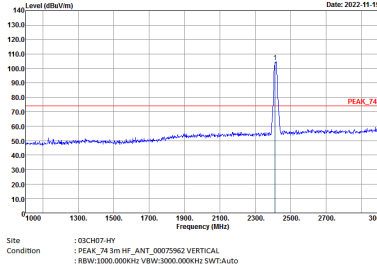
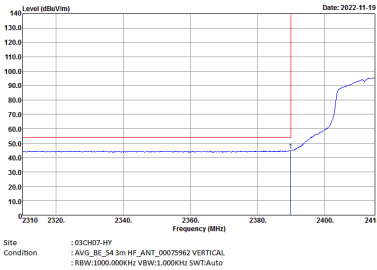
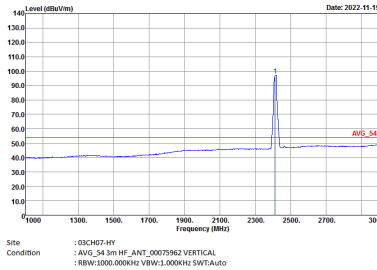
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWTAuto

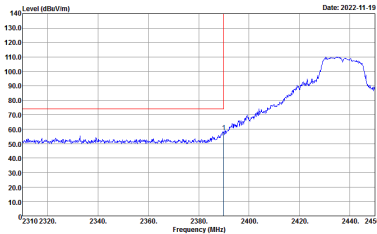
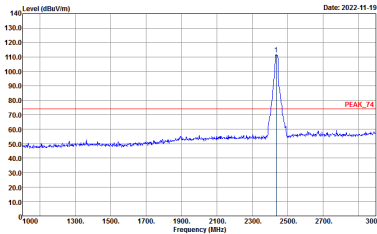
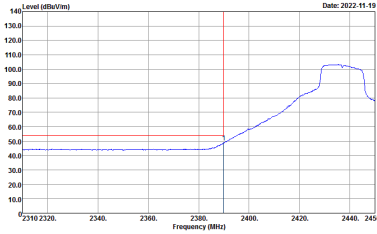
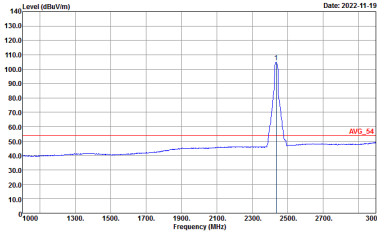


2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

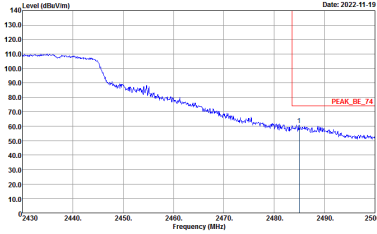
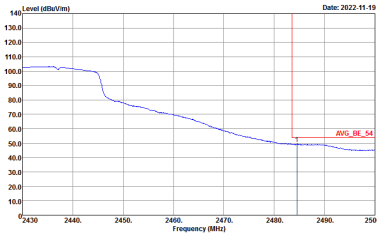
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWTAuto

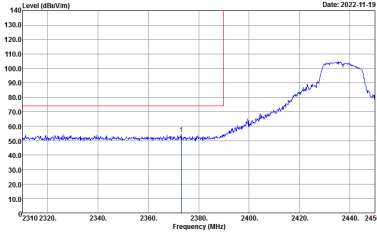
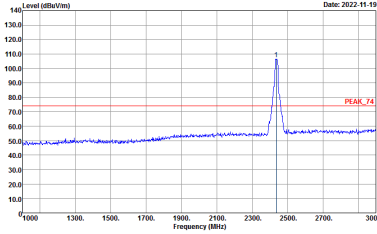
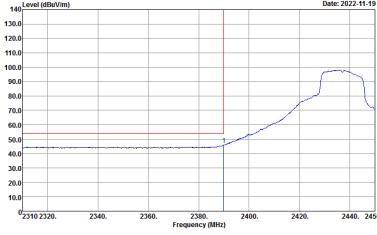
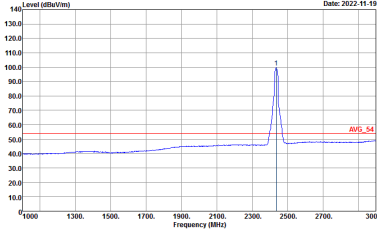


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-RY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-RY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-RY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-RY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWTAuto

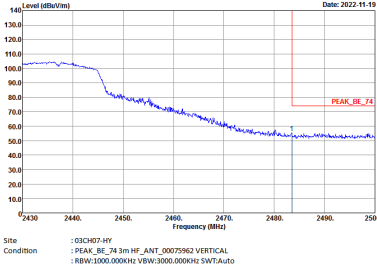
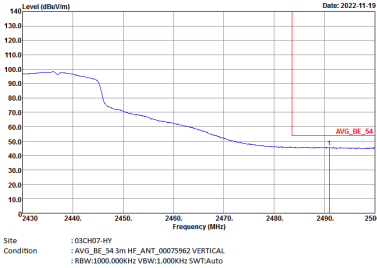


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-RF Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left blank
Avg.	 Site : 03CH07-RF Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	Left blank

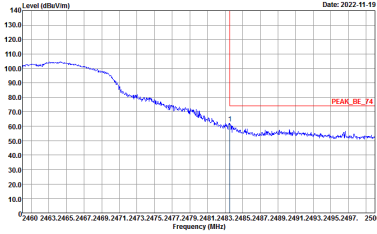
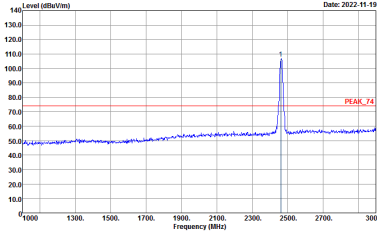
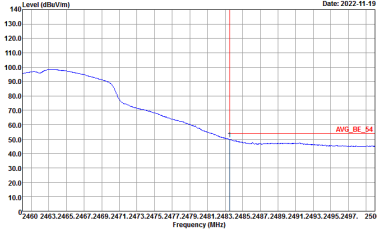
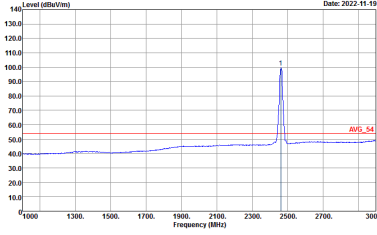


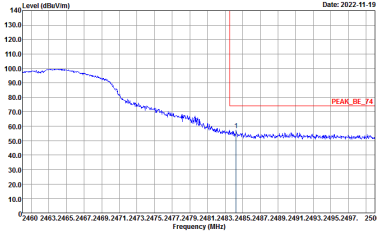
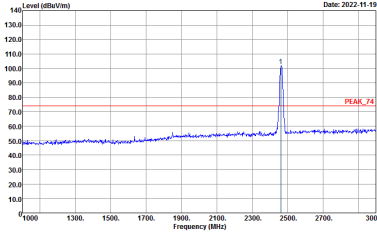
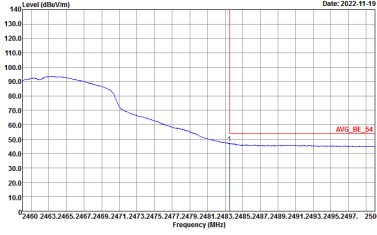
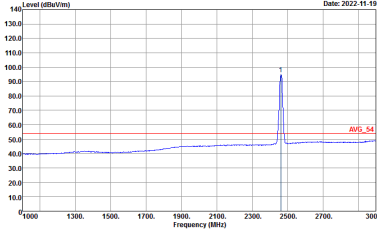
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-RY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left Blank
Avg.	 Site : 03CH07-RY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	Left Blank

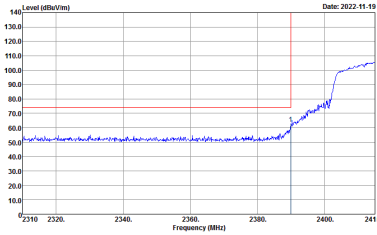
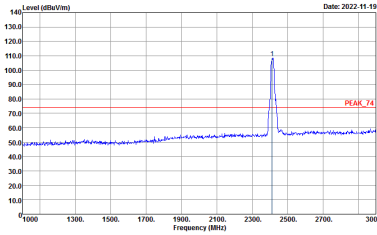
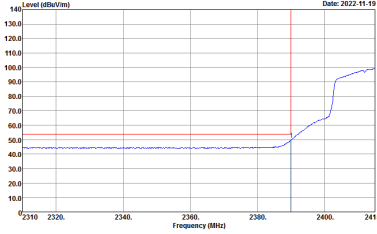
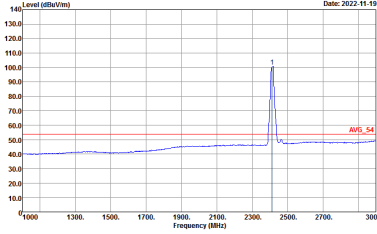


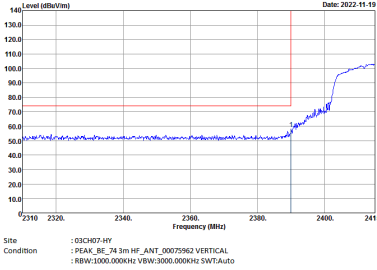
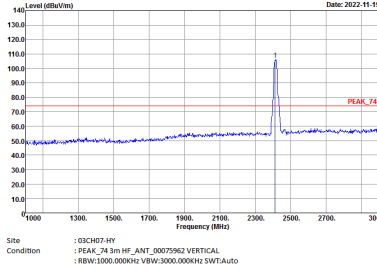
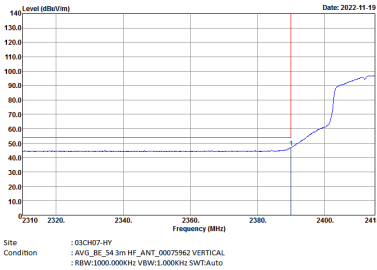
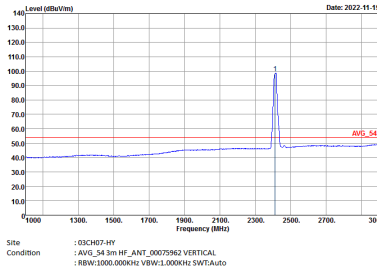
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto
Avg.		

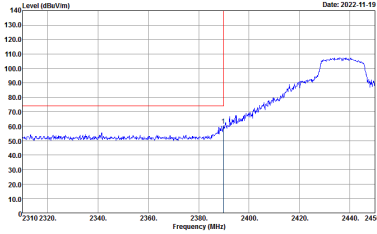
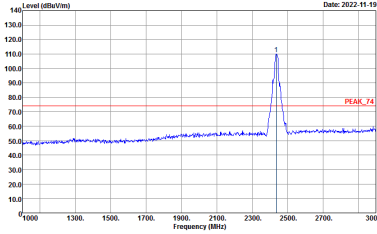
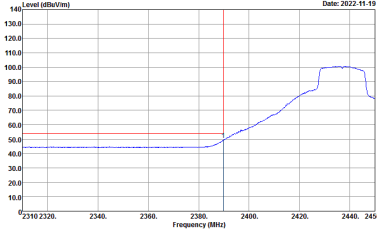
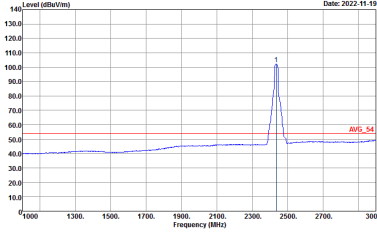


2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

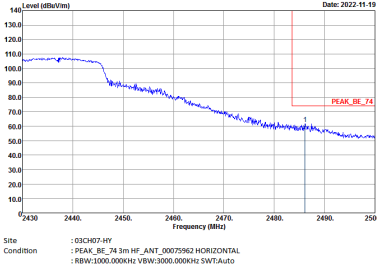
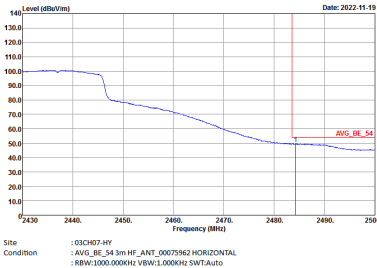
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH07-HY : PEAK_BE_74 3m HF ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : PEAK_74 3m HF ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site Condition : 03CH07-HY : AVG_BE_54 3m HF ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site Condition : 03CH07-HY : AVG_54 3m HF ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto

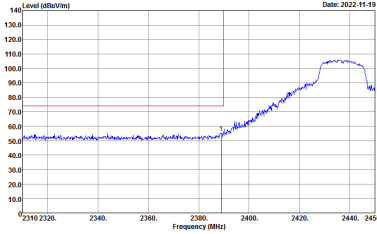
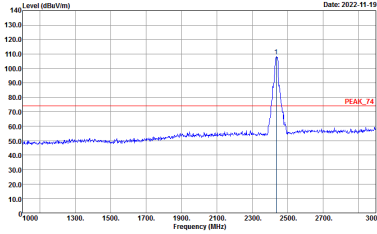
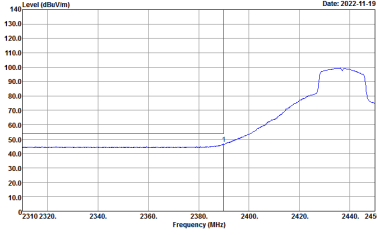
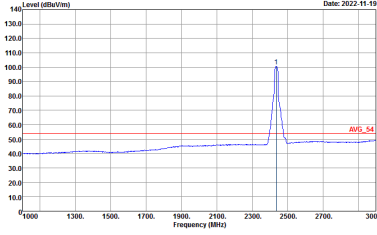
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWTAuto

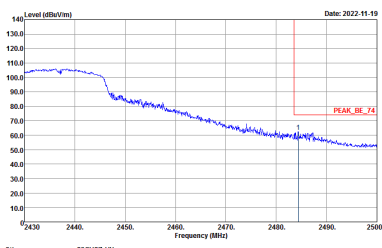
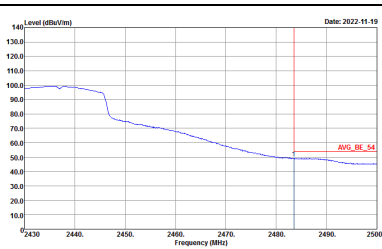


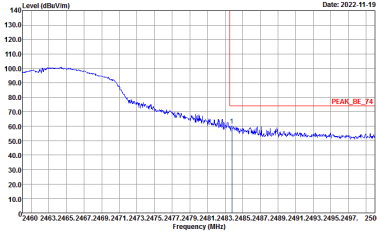
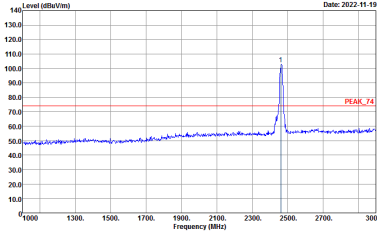
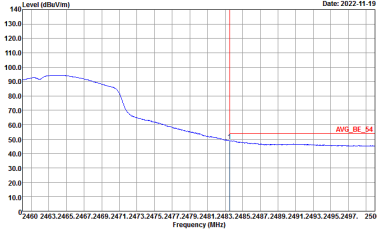
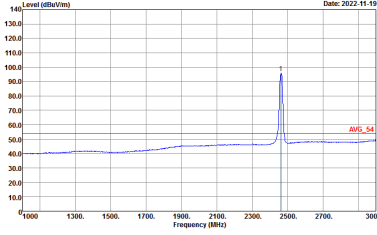
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto
Avg.		

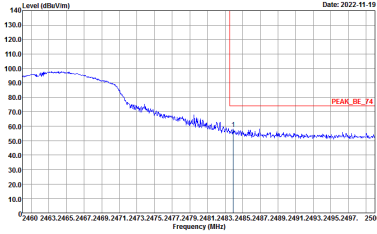
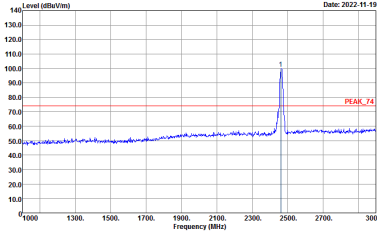
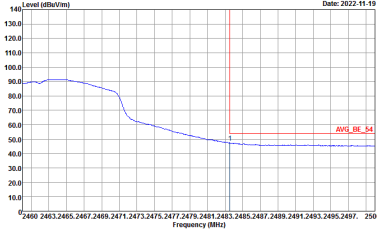
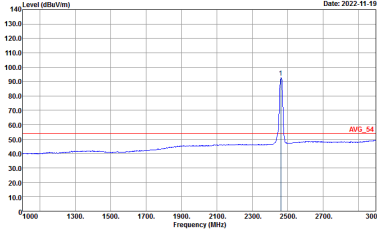


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : AVG_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto
Avg.		

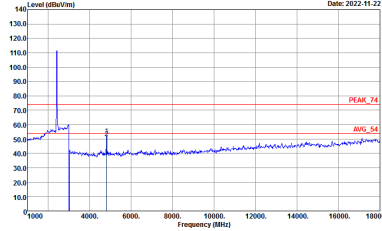
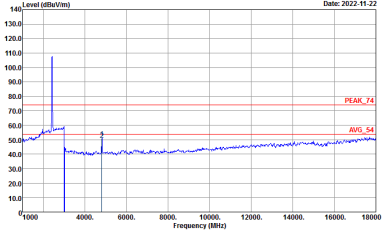
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-RY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	Left Blank
Avg.	 Site : 03CH07-RY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWTAuto
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWTAuto



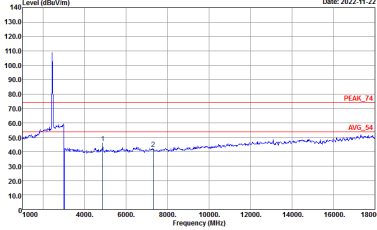
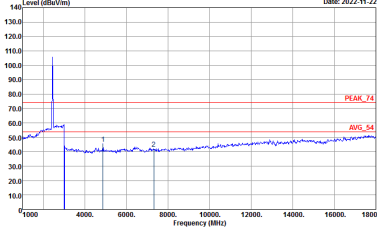
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL

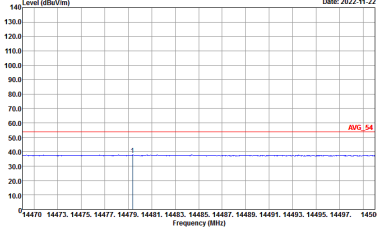
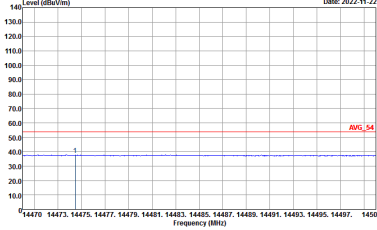
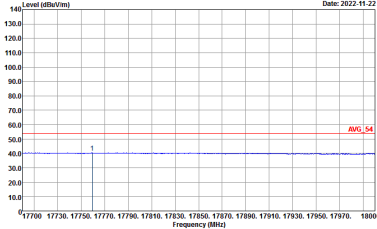
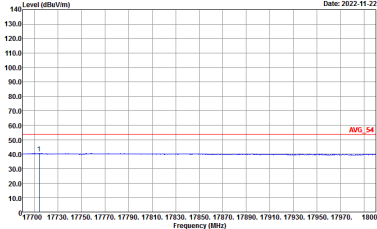


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL

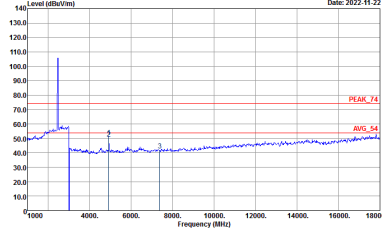
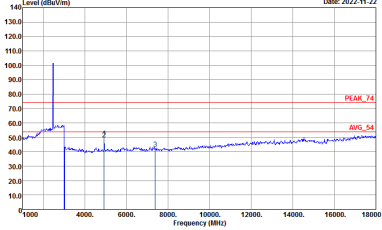


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL

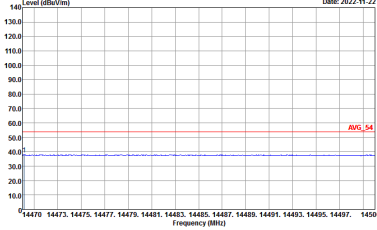
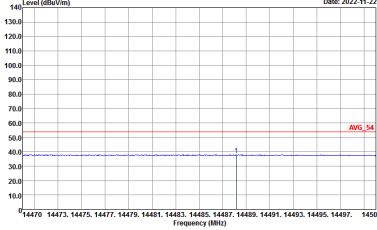
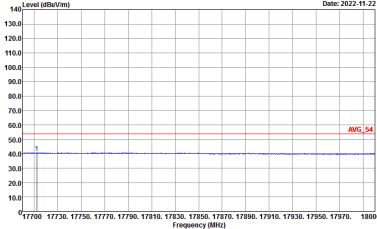
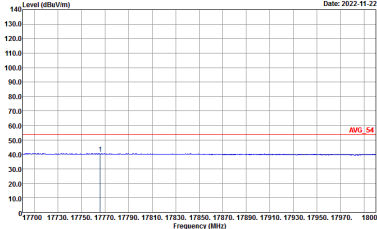


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL



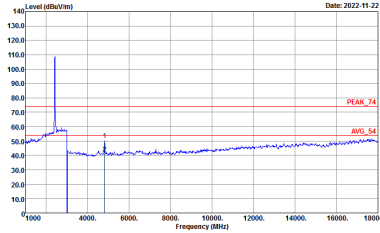
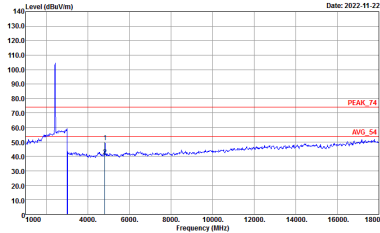
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL



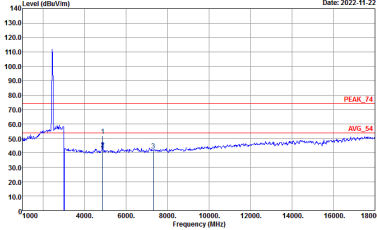
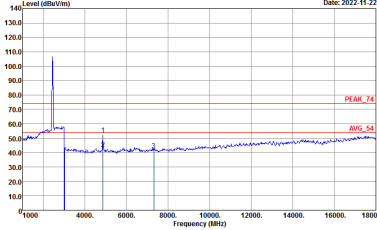
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL

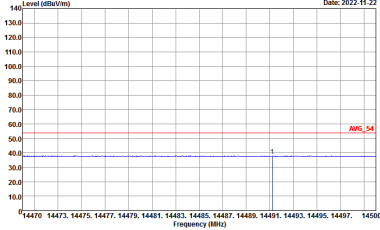
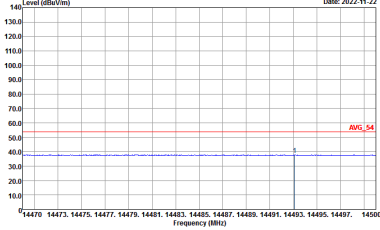
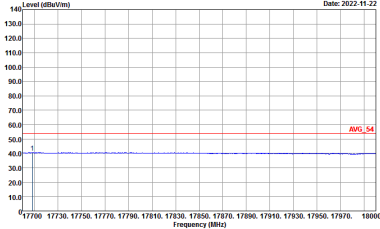
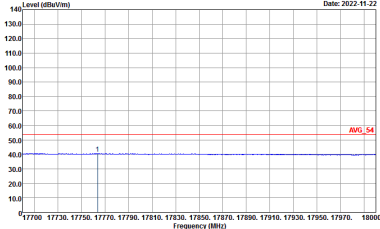


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL

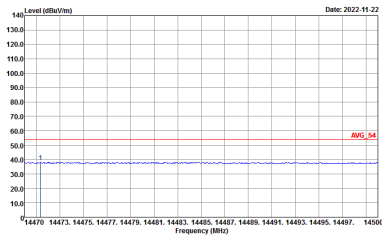
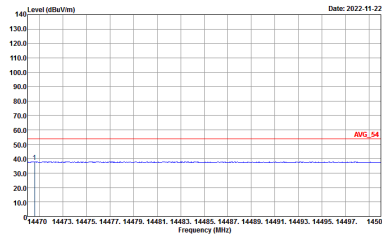
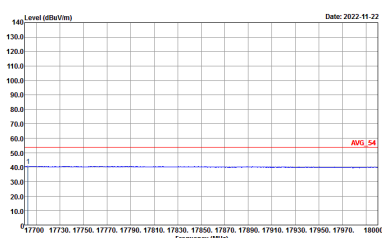
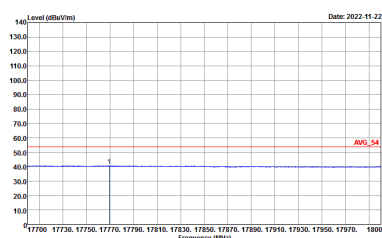


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL



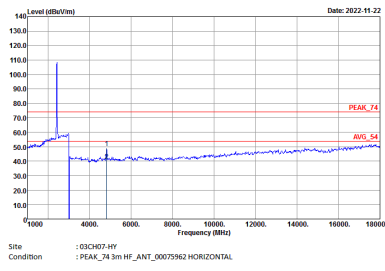
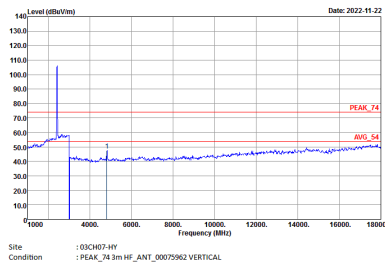
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-11-22 PEAK_74 Avg_54 Site : 03CH07-HY Condition : PEAK_74 3m HP_ANT_00075962 HORIZONTAL	Level (dBuV/m) Date: 2022-11-22 PEAK_74 Avg_54 Site : 03CH07-HY Condition : PEAK_74 3m HP_ANT_00075962 VERTICAL

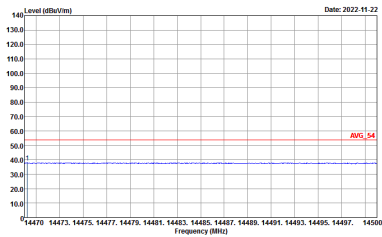
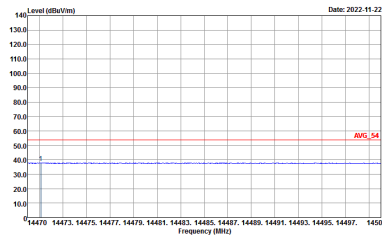
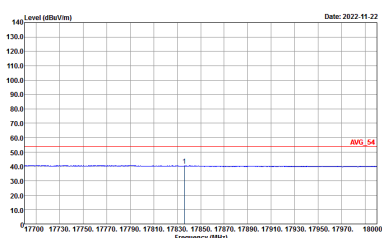
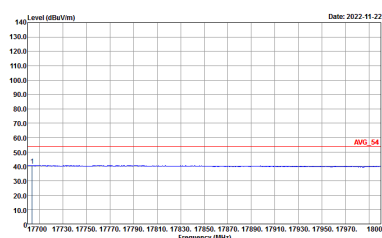


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL

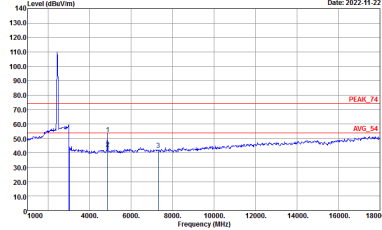
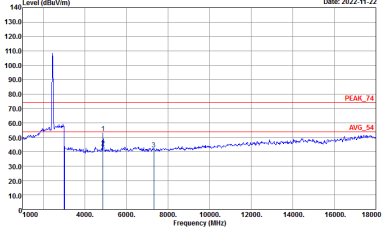


2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

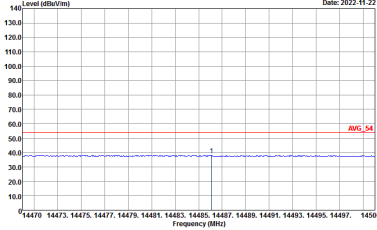
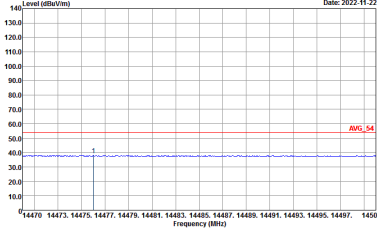
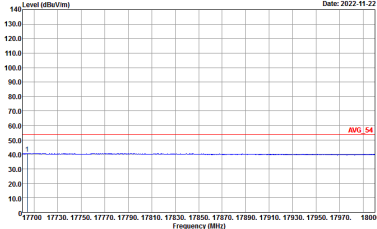
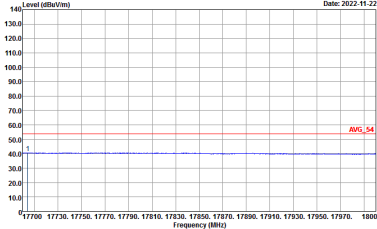
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL

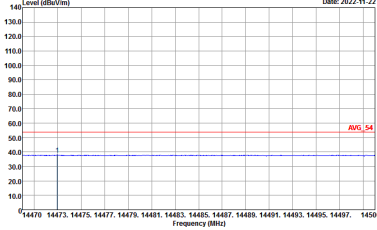
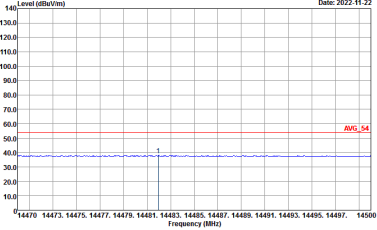
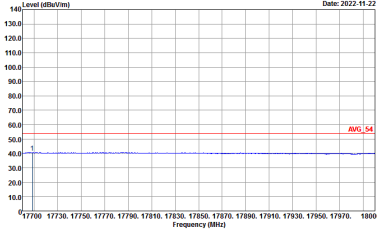
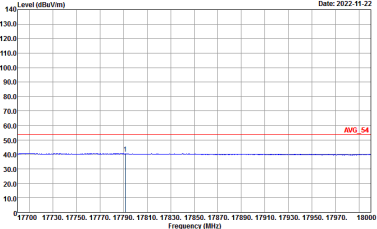


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-11-22 PEAK_74 Avg_54 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL	Level (dBuV/m) Date: 2022-11-22 PEAK_74 Avg_54 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL
	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 HORIZONTAL	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00075962 VERTICAL

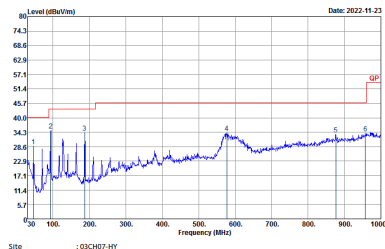
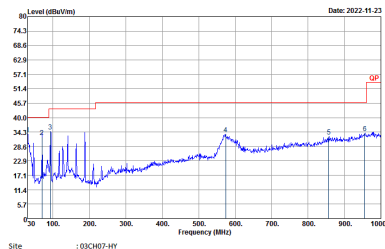


Emission above 18GHz
2.4GHz WIFI 802.11b (SHF @ 1m)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b SHF	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-11-22 Site : 03CH07-HY Condition : PEAK_74 1m SHF-EHF_51701224 HORIZONTAL	Level (dBuV/m) Date: 2022-11-22 Site : 03CH07-HY Condition : PEAK_74 1m SHF-EHF_51701224 VERTICAL



Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11b LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(s) HORIZONTAL	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(s) VERTICAL



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	97.54	1390	0.72	1kHz
2.4GHz 802.11n HT20	97.38	1300	0.77	1kHz

