



FCC RADIO TEST REPORT

FCC ID : B32V240MPLUSU
Equipment : Point of Sales Terminal
Brand Name : Verifone
Model Name : V240m Plus 3GBWU,
V240m Plus 3GBWCU
Applicant : Verifone, Inc.
1400 West Stanford Ranch Road,
Suite 200, Rocklin CA 95765 USA
Manufacturer : Verifone, Inc.
Standard : FCC Part 15 Subpart C §15.247

The product was received on Nov. 04, 2020 and testing was started from Nov. 12, 2020 and completed on Dec. 09, 2020. 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 of 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, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR862115-01C	01	Initial issue of report	Dec. 14, 2020

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	Under limit 2.62 dB at 2483.600 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 6.60 dB at 0.475 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Wii Chang

Report Producer: Cindy Liu

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/WCDMA, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n/ac and RFID.

Product Specification subjective to this standard	
SKU 1	EUT with Camera
SKU 2	EUT without Camera
Antenna Type	WWAN: PIFA Antenna WLAN: FPC Antenna Bluetooth: FPC Antenna RFID: Loop Antenna

Antenna information		
2400 MHz ~ 2483.5 MHz	Peak Gain (dBi)	1.9

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

Specification of Accessory		
AC Adapter 1	Brand Name	Verifone
	Model Name	AM11A-050A
	Manufacturer	PHIHONG
	Power Rating	Input : 100-240Vac, 0.5A Output: 5Vdc, 2.2A, 11W
AC Adapter 2	Brand Name	Verifone
	Model Name	VF0402
	Manufacturer	Salcomp
	Power Rating	Input : 100-240Vac, 0.5A Output: 5Vdc, 2.2A, 11W
AC Adapter 3	Brand Name	Verifone
	Model Name	SC1402
	Manufacturer	Salcomp
	Power Rating	Input : 100-240Vac, 0.15A Output: 5Vdc, 1A, 5W
AC Adapter 4	Brand Name	Verifone
	Model Name	MU06-E050100-A1
	Manufacturer	Leader
	Power Rating	Input : 100-240Vac, 0.18A Output: 5Vdc, 1A, 5W
Battery	Brand Name	Verifone
	Model Name	BPK474-001

1.2 Modification of EUT

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



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, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	TH05-HY, CO05-HY, 03CH07-HY

FCC designation No.: TW1190

1.4 Applicable Standards

According to the specifications of 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 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

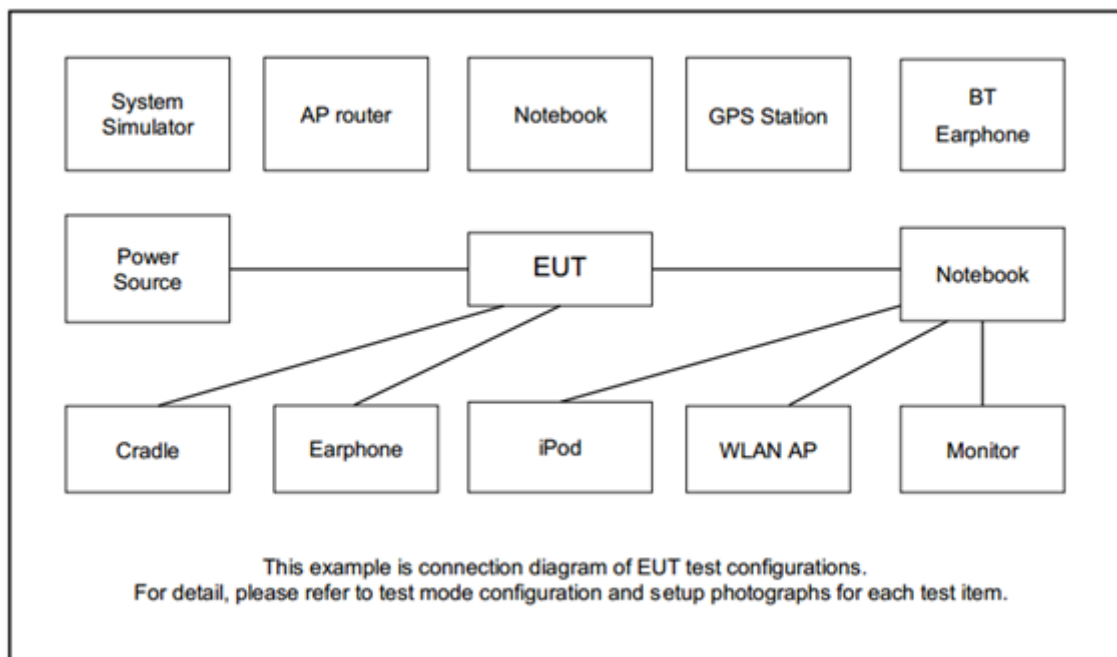
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1: RFID On + Bluetooth TX + WLAN (2.4GHz) Link + MSR + Smart Card + Adapter 1 + Speaker + Display for SKU 2 Mode 2: RFID On + Bluetooth TX + WLAN (2.4GHz) Link + MSR + Smart Card + Adapter 1 + LED + Speaker + Display + Camera for SKU 1
Remark: 1. The worst case of conducted emission is mode 2; only the test data of it was reported. 2. For Radiated Test Cases, the tests were performed with Adapter 1.	

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 final modulation and the worst data rate was reference 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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
4.	MSR Card	N/A	N/A	N/A	N/A	N/A
5.	Smart Card	N/A	N/A	N/A	N/A	N/A



2.6 EUT Operation Test Setup

The RF test items, utility “Tera Term v4.65” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.7 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 10dB 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.

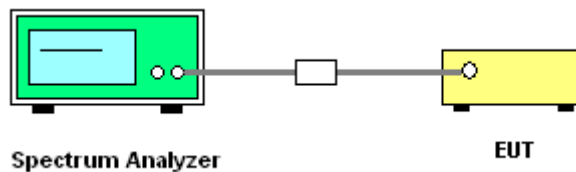
3.1.2 Measuring Instruments

See list of measuring equipment of 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 was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

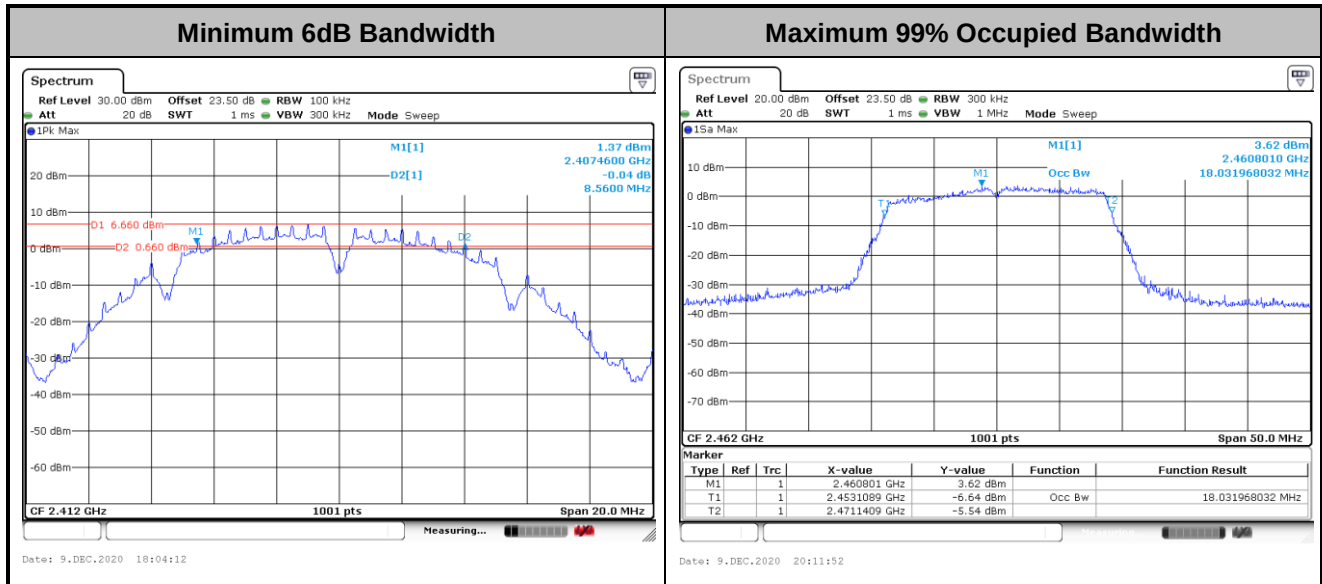
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

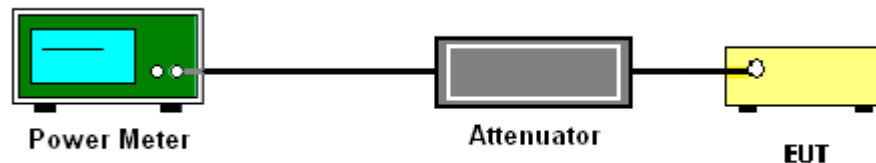
3.2.2 Measuring Instruments

See list of measuring equipment of 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 was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

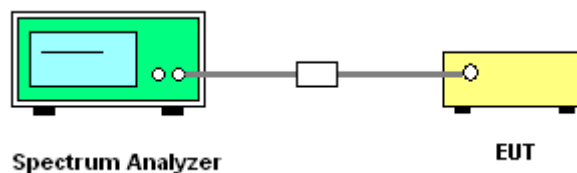
3.3.2 Measuring Instruments

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

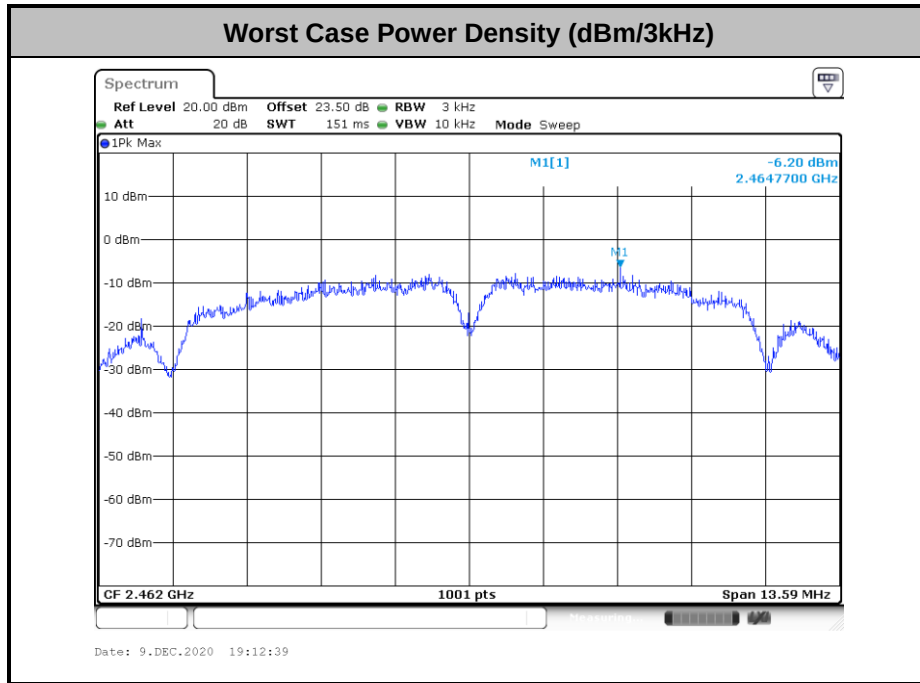
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

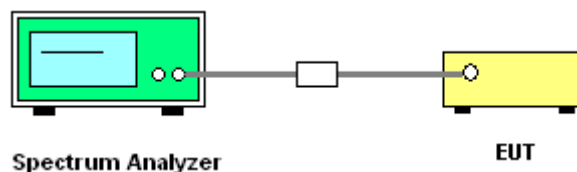
3.4.2 Measuring Instruments

See list of measuring equipment of 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 was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



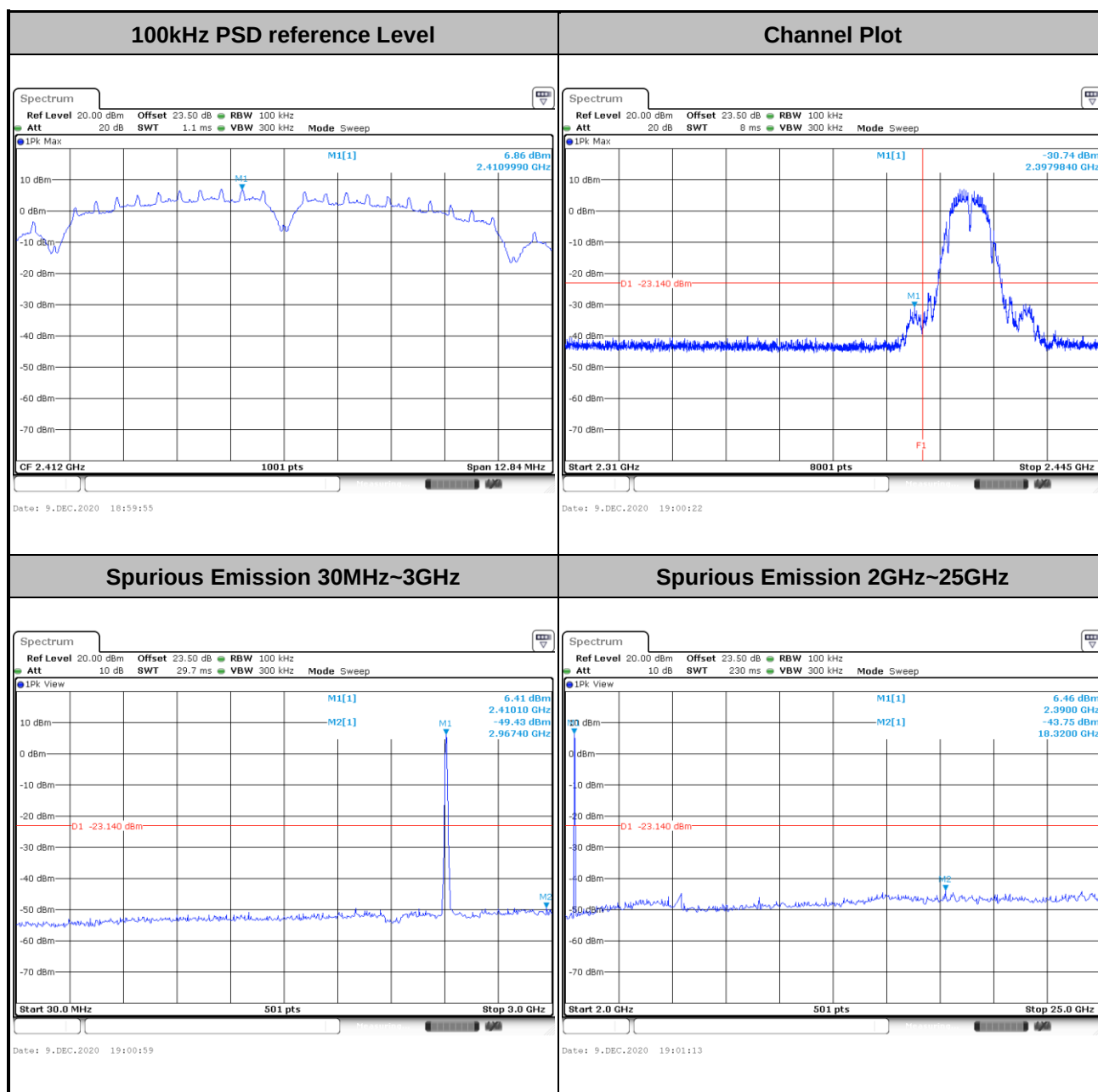


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Junyu Zhou	Temperature :	22.5~23°C
		Relative Humidity :	54.1~55.7%

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

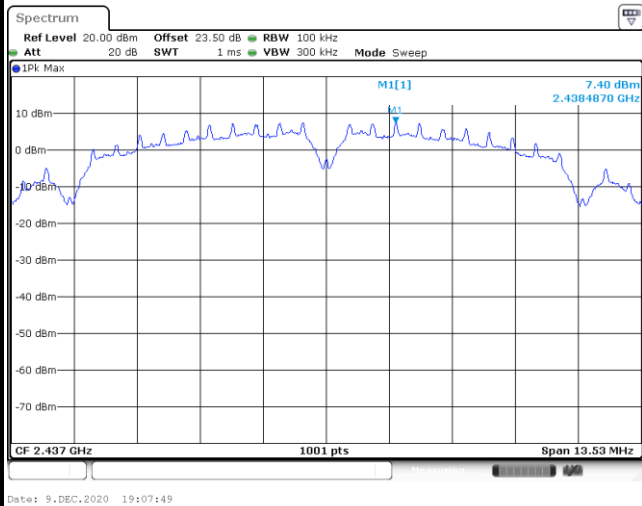
Test Mode :	802.11b	Test Channel :	01
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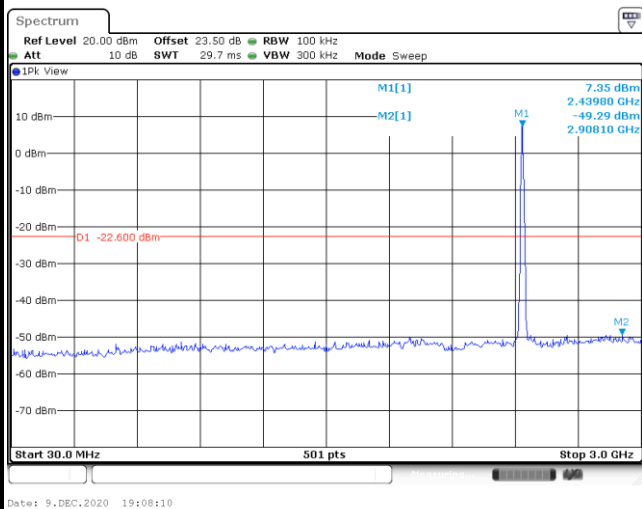
Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level

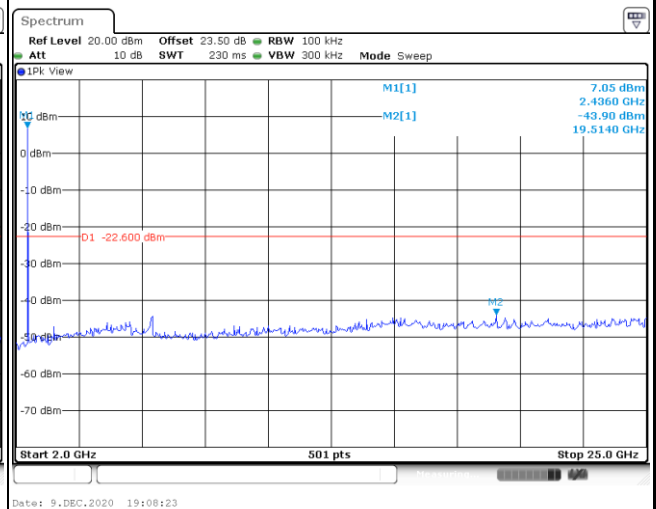


Channel Plot

Spurious Emission 30MHz~3GHz

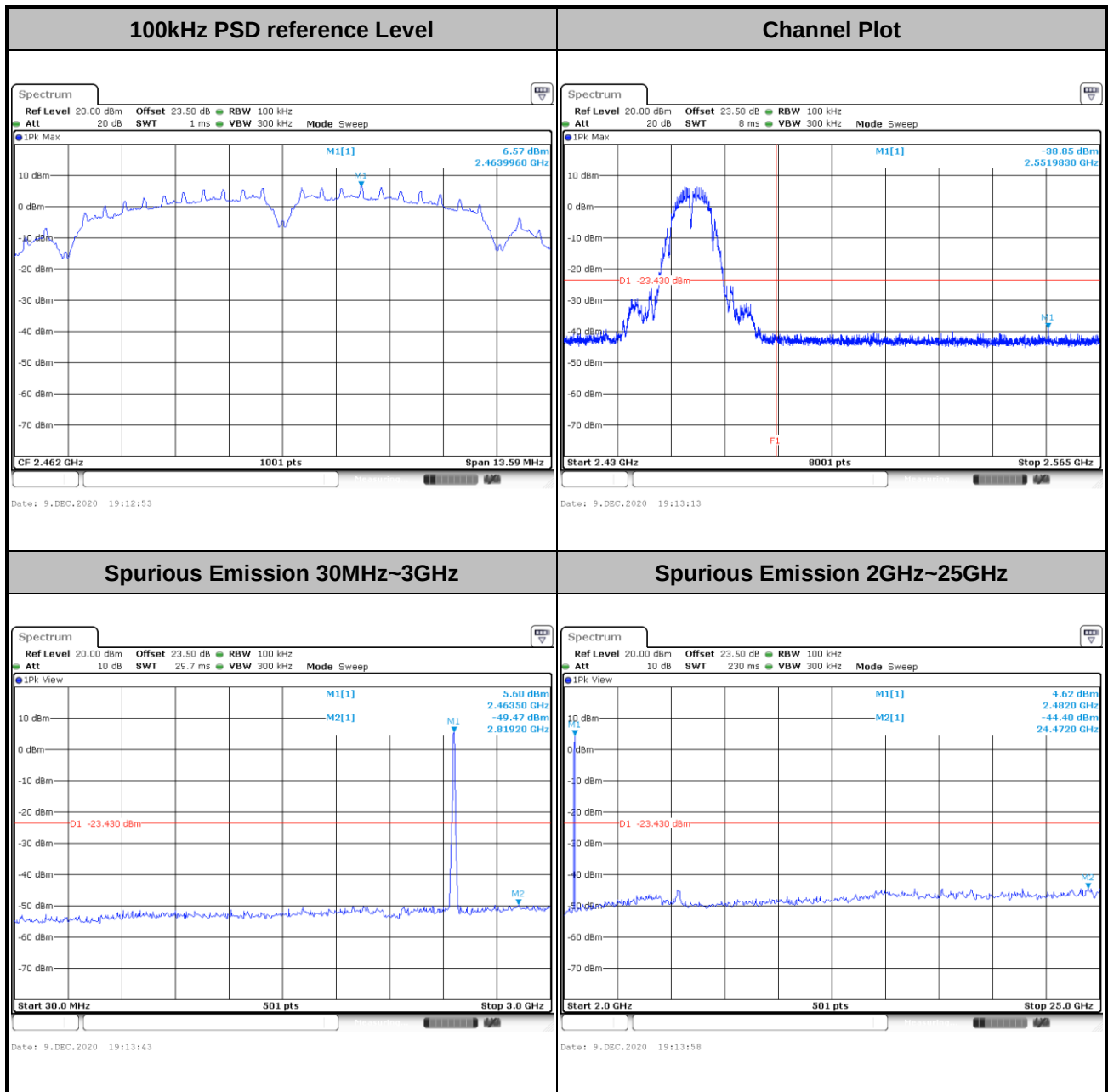


Spurious Emission 2GHz~25GHz



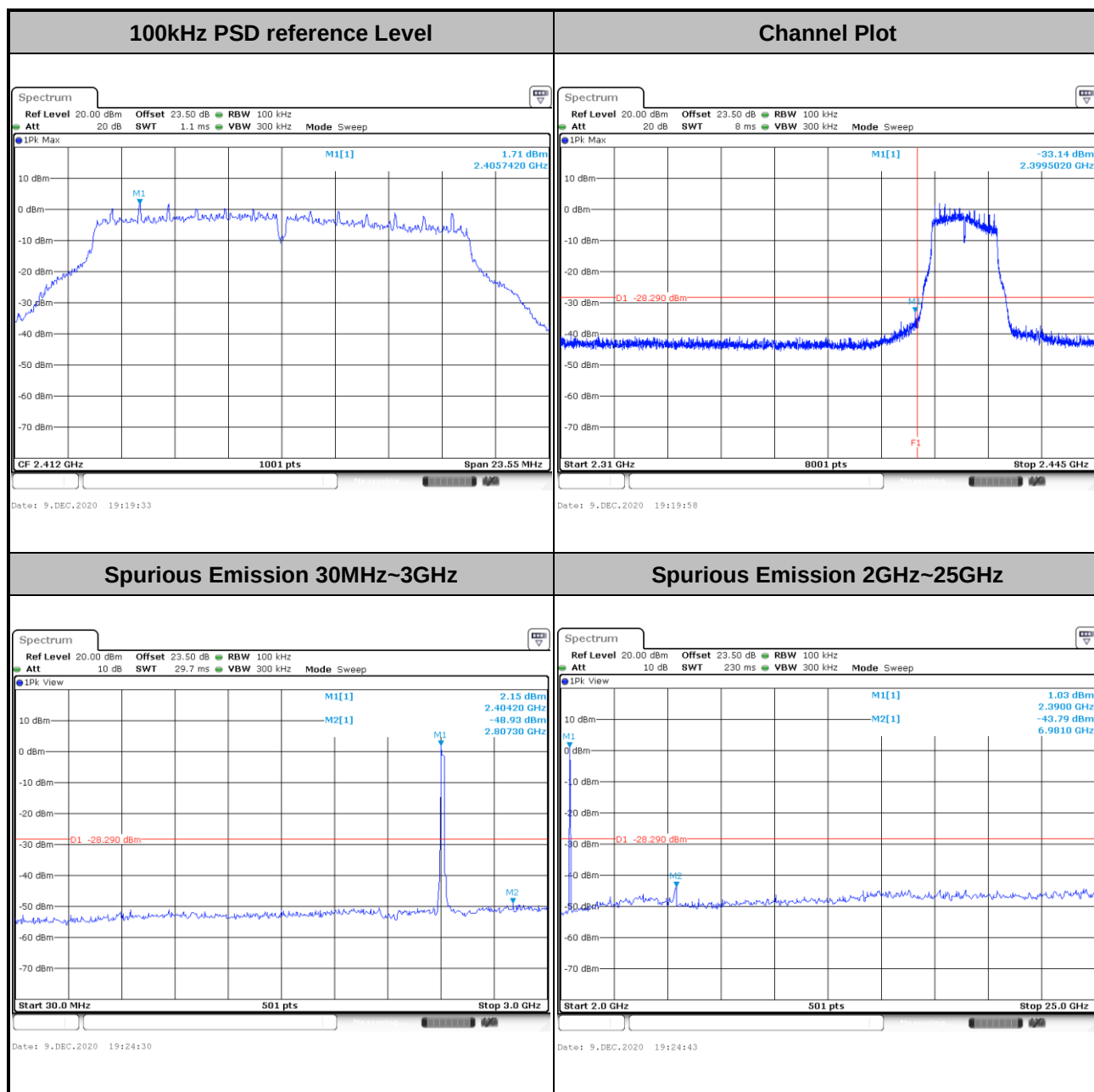


Test Mode :	802.11b	Test Channel :	11
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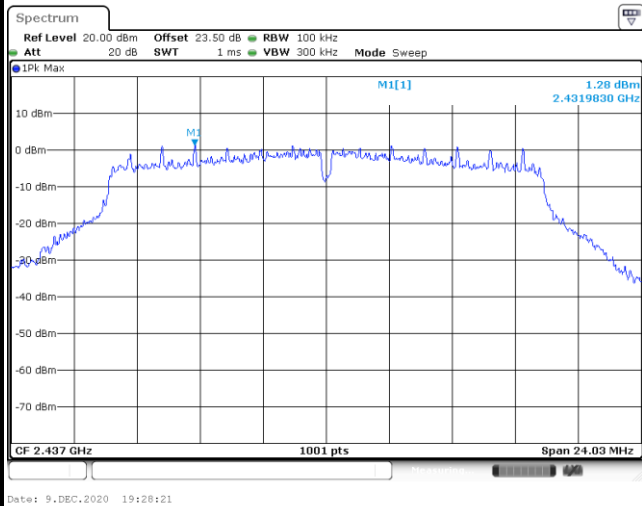
Test Mode :	802.11g	Test Channel :	01
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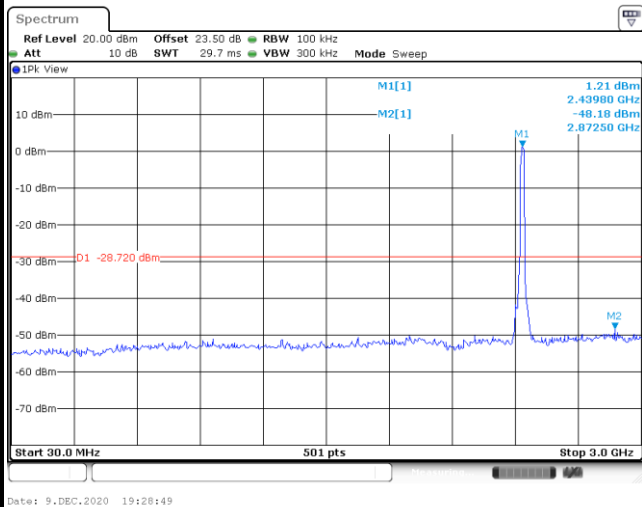
Test Mode :	802.11g	Test Channel :	06
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100kHz PSD reference Level

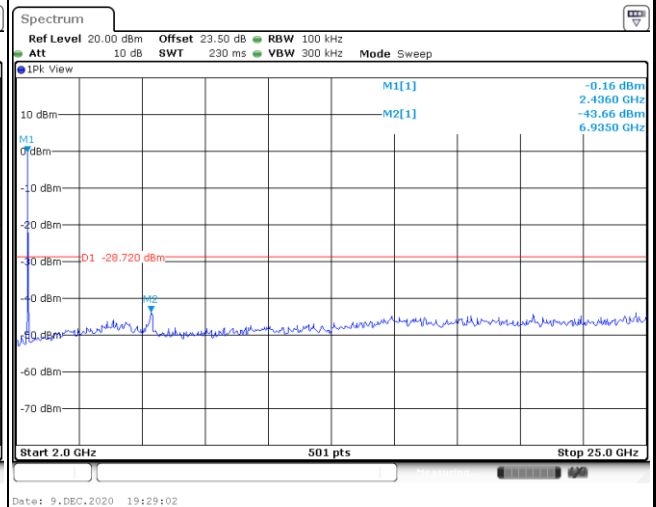


Channel Plot

Spurious Emission 30MHz~3GHz

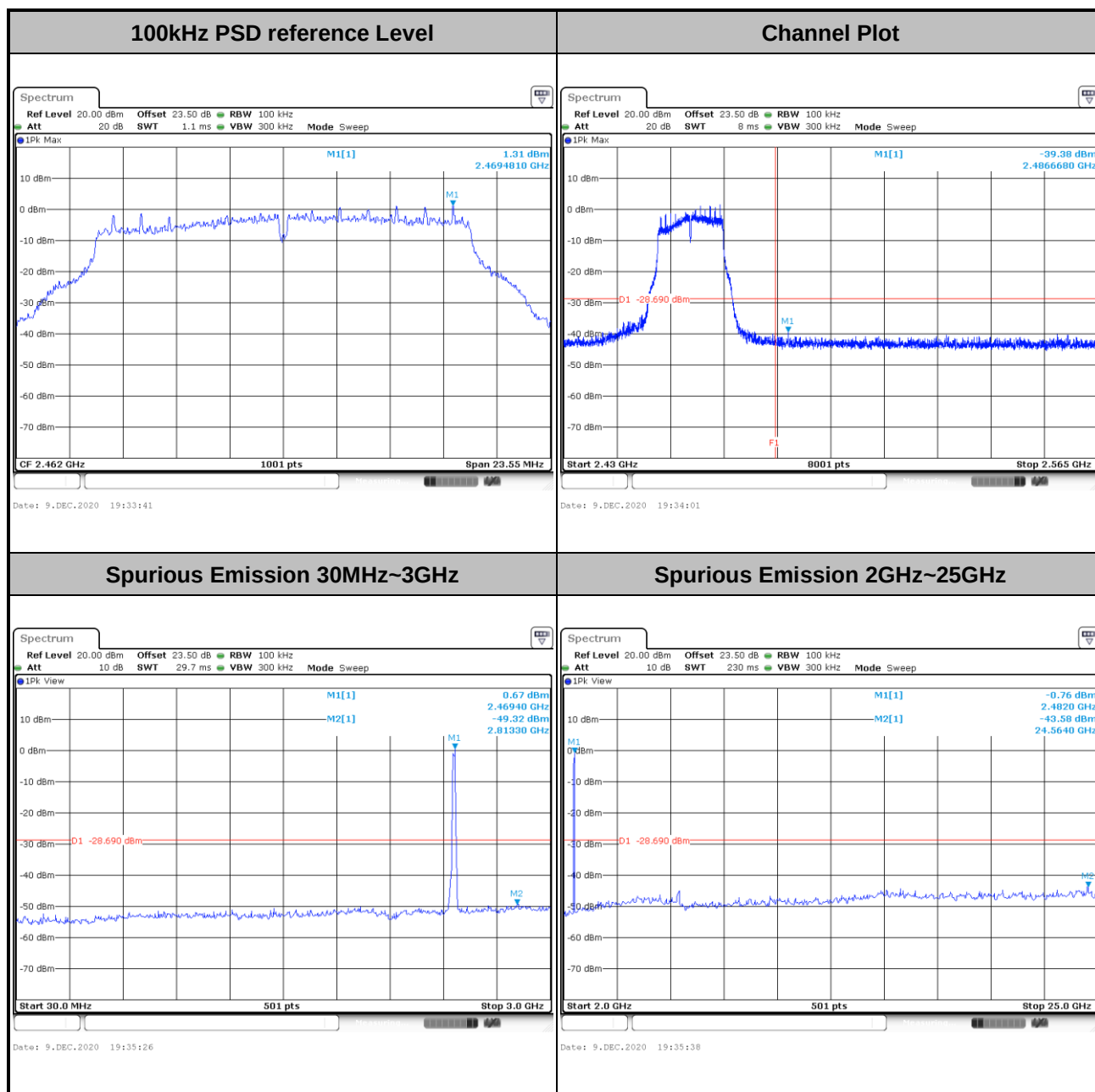


Spurious Emission 2GHz~25GHz





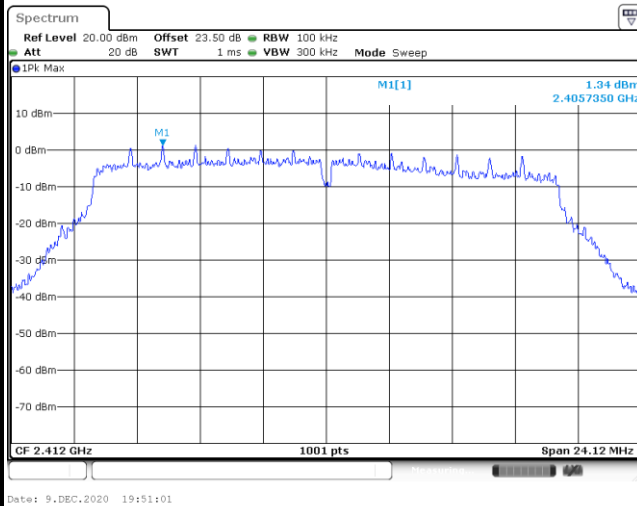
Test Mode :	802.11g	Test Channel :	11
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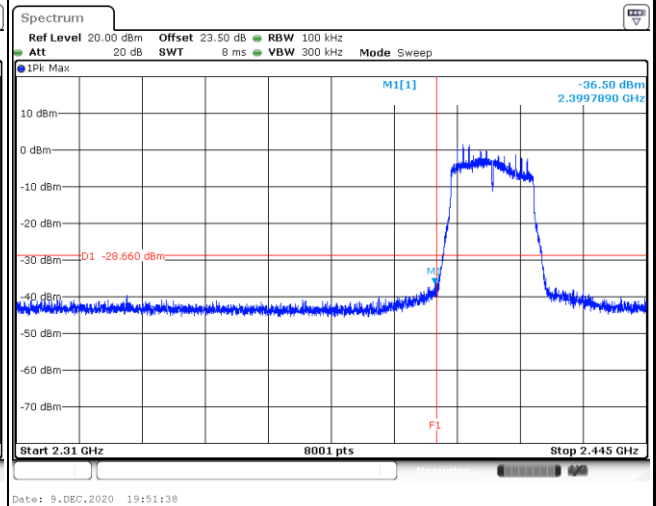


Test Mode :	802.11n HT20	Test Channel :	01
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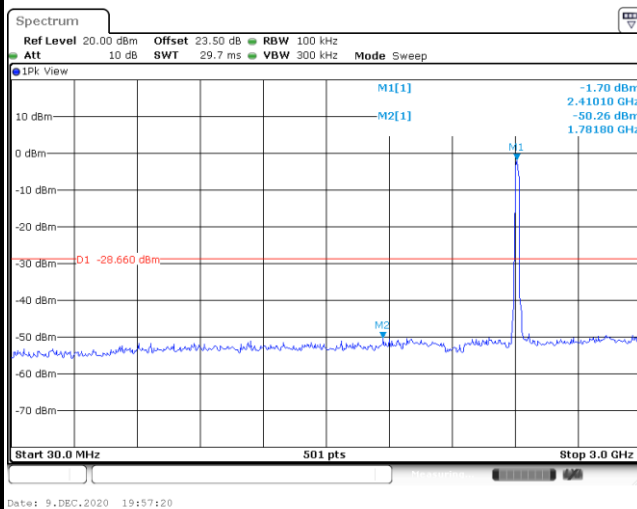
100kHz PSD reference Level



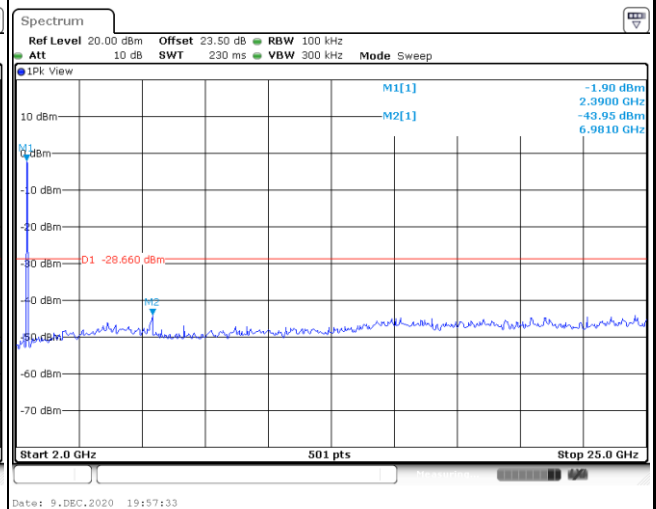
Channel Plot



Spurious Emission 30MHz~3GHz



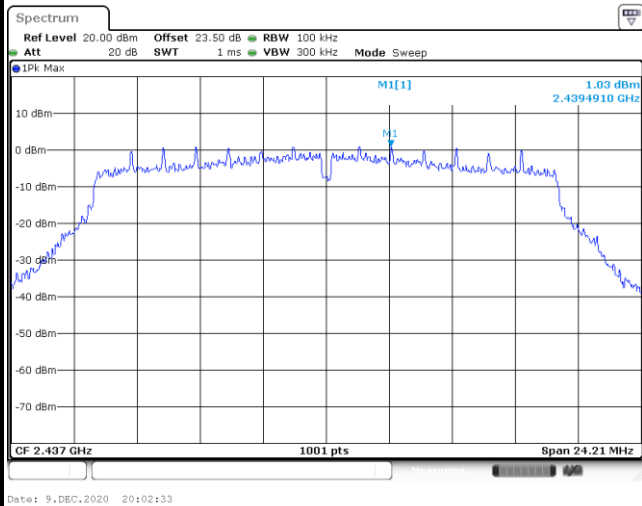
Spurious Emission 2GHz~25GHz





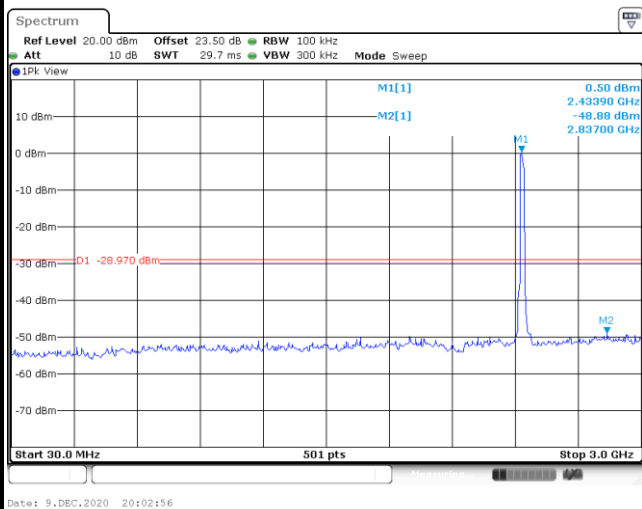
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level

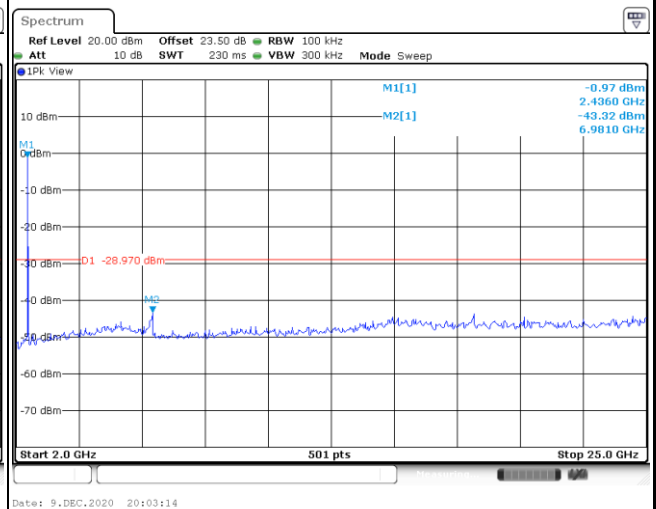


Channel Plot

Spurious Emission 30MHz~3GHz

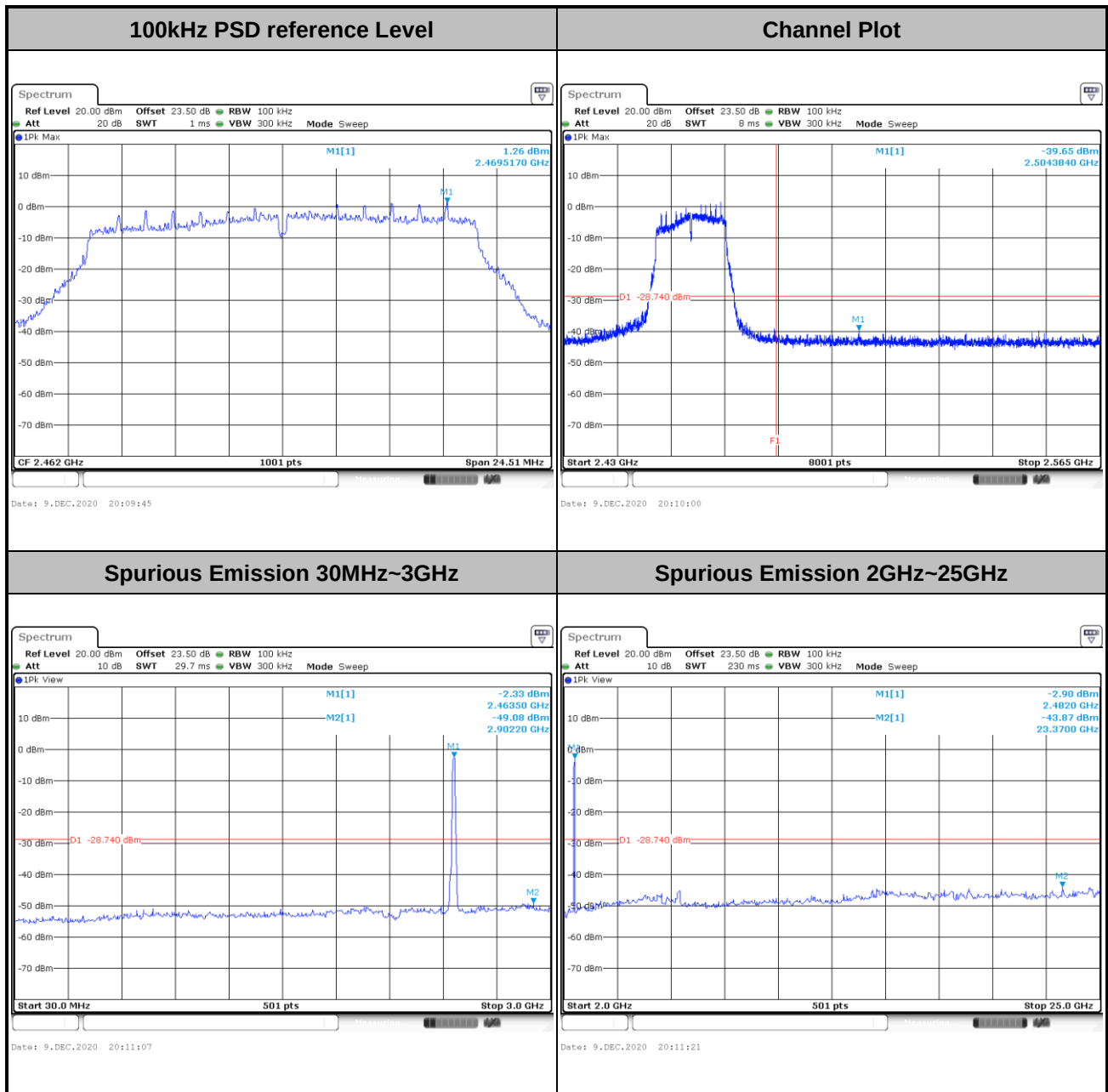


Spurious Emission 2GHz~25GHz





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 was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

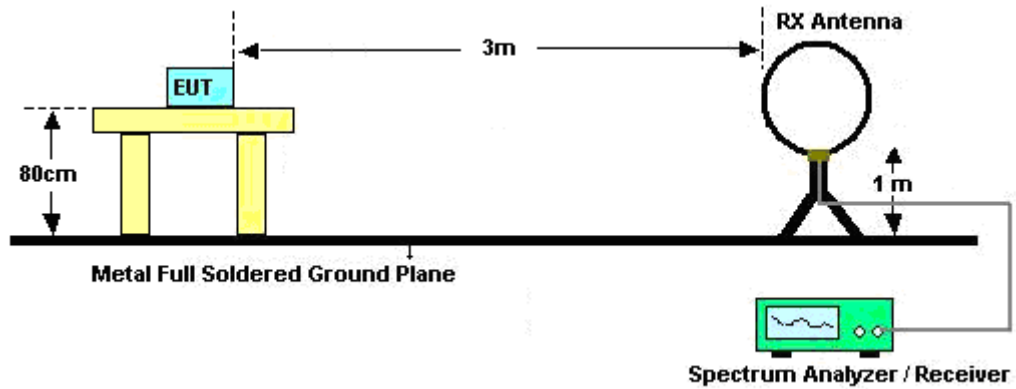
See list of measuring equipment of this test report.

3.5.3 Test Procedures

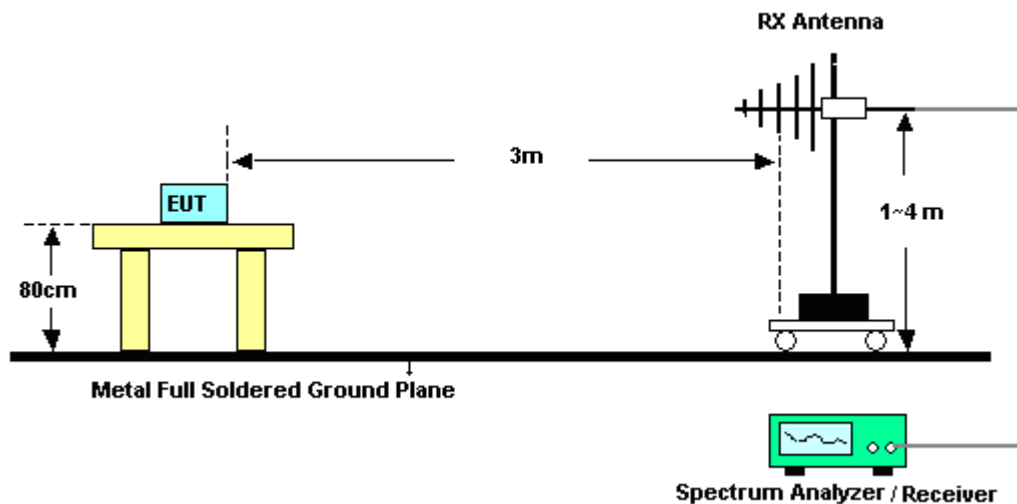
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; $VBW \geq RBW$; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

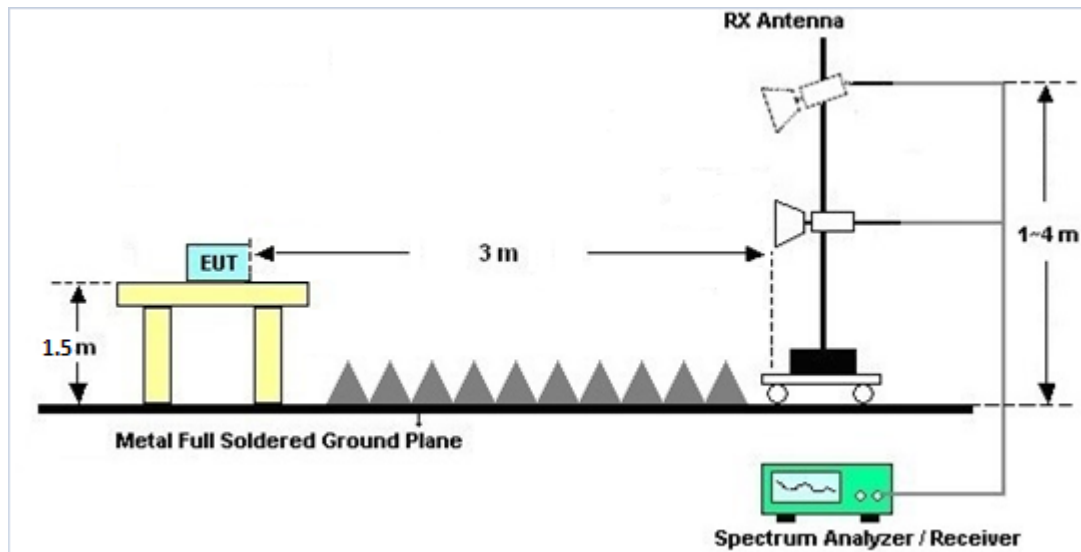
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came 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 (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

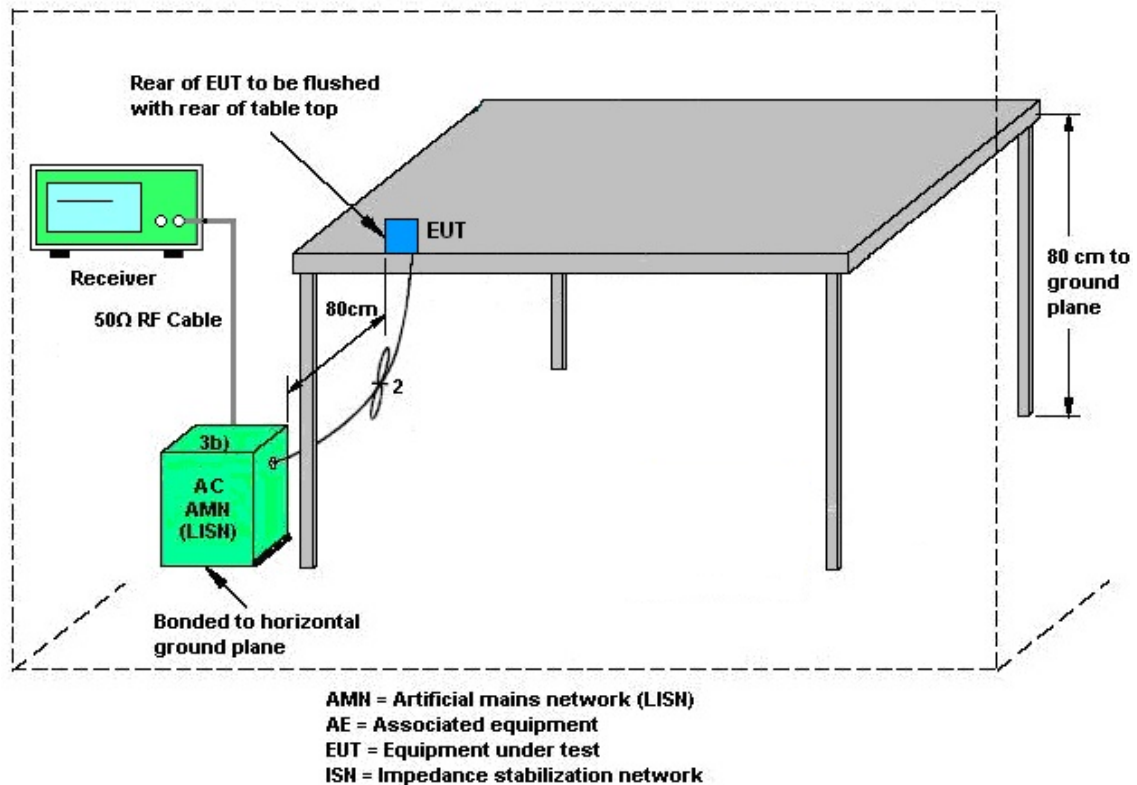
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Dec. 26, 2019	Nov. 24, 2020~ Dec. 07, 2020	Dec. 25, 2020	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	35419 & 03	30MHz~1GHz	Apr. 29, 2020	Nov. 24, 2020~ Dec. 07, 2020	Apr. 28, 2021	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Dec. 06, 2019	Nov. 24, 2020~ Nov. 29, 2020	Dec. 05, 2020	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00027880	1GHz ~ 18GHz	Sep. 15, 2020	Nov. 24, 2020~ Dec. 07, 2020	Sep. 14, 2021	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	May 21, 2020	Nov. 24, 2020~ Dec. 07, 2020	May 20, 2021	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Jun. 09, 2020	Nov. 24, 2020~ Dec. 07, 2020	Jun. 08, 2021	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	May 19, 2020	Nov. 24, 2020~ Dec. 07, 2020	May 18, 2021	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 23, 2020	Nov. 24, 2020~ Dec. 07, 2020	Apr. 22, 2021	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Oct. 31, 2020	Nov. 24, 2020~ Dec. 07, 2020	Oct. 30, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4, MY28655/4	9kHz~30MHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	30MHz~1GHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4, MY24971/4, MY15682/4	1GHz~18GHz	Feb. 25, 2020	Nov. 24, 2020~ Dec. 07, 2020	Feb. 24, 2021	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
USB Data Logger	TECPEL	TR-32	HE17XB2495	N/A	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	N/A	N/A	N/A	Nov. 24, 2020~ Dec. 07, 2020	N/A	Radiation (03CH07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	608-H1	34893241	N/A	Mar. 02, 2020	Nov. 12, 2020~ Dec. 09, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 10	10MHz~6GHz	Dec. 23, 2019	Nov. 12, 2020~ Dec. 09, 2020	Dec. 22, 2020	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Nov. 12, 2020~ Dec. 09, 2020	Jul. 21, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Dec. 30, 2019	Nov. 12, 2020~ Dec. 09, 2020	Dec. 29, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Nov. 12, 2020~ Dec. 09, 2020	Mar. 16, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Nov. 16, 2020~ Nov. 27, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Nov. 16, 2020~ Nov. 27, 2020	Sep. 10, 2021	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Nov. 16, 2020~ Nov. 18, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2020	Nov. 19, 2020~ Nov. 27, 2020	Nov. 15, 2021	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Nov. 16, 2020~ Nov. 27, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Nov. 16, 2020~ Nov. 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Nov. 16, 2020~ Nov. 27, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	41310167	N/A	Jul. 27, 2020	Nov. 16, 2020~ Nov. 27, 2020	Jul. 26, 2021	Conduction (CO05-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Junyu Jhou	Temperature:	22.5~23	°C
Test Date:	2020/11/12~2020/12/09	Relative Humidity:	54.1~55.7	%

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	12.39	-	8.56	-	0.50	Pass
11b	1Mbps	1	6	2437	12.09	-	9.02	-	0.50	Pass
11b	1Mbps	1	11	2462	12.49	-	9.06	-	0.50	Pass
11g	6Mbps	1	1	2412	16.93	-	15.70	-	0.50	Pass
11g	6Mbps	1	6	2437	16.83	-	16.02	-	0.50	Pass
11g	6Mbps	1	11	2462	16.98	-	15.70	-	0.50	Pass
HT20	MCS0	1	1	2412	17.98	-	16.08	-	0.50	Pass
HT20	MCS0	1	6	2437	17.88	-	16.14	-	0.50	Pass
HT20	MCS0	1	11	2462	18.03	-	16.34	-	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	15.80	-		30.00	-	1.90	-	17.70	-	36.00	-	Pass
11b	1Mbps	1	6	2437	16.50	-		30.00	-	1.90	-	18.40	-	36.00	-	Pass
11b	1Mbps	1	11	2462	15.60	-		30.00	-	1.90	-	17.50	-	36.00	-	Pass
11g	6Mbps	1	1	2412	12.60	-		30.00	-	1.90	-	14.50	-	36.00	-	Pass
11g	6Mbps	1	6	2437	13.50	-		30.00	-	1.90	-	15.40	-	36.00	-	Pass
11g	6Mbps	1	11	2462	12.60	-		30.00	-	1.90	-	14.50	-	36.00	-	Pass
HT20	MCS0	1	1	2412	12.20	-		30.00	-	1.90	-	14.10	-	36.00	-	Pass
HT20	MCS0	1	6	2437	13.00	-		30.00	-	1.90	-	14.90	-	36.00	-	Pass
HT20	MCS0	1	11	2462	12.20	-		30.00	-	1.90	-	14.10	-	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	-6.84	-		1.90	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-6.32	-		1.90	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-6.20	-		1.90	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-12.11	-		1.90	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-10.57	-		1.90	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-12.72	-		1.90	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-13.09	-		1.90	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-11.76	-		1.90	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-13.00	-		1.90	-	8.00	-	Pass

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



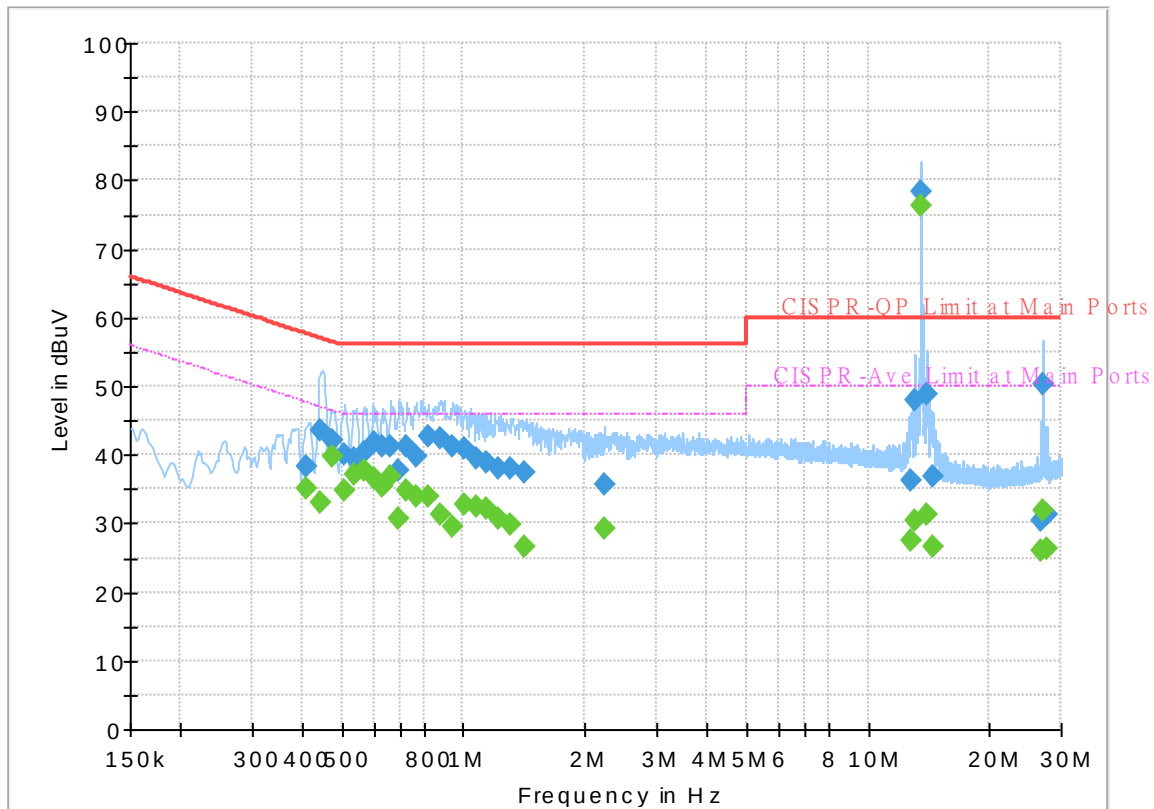
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Tom Lee and Howard Huang	Temperature :	24~26℃
		Relative Humidity :	40~48%

Original Mode

Report NO : 862115-01
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



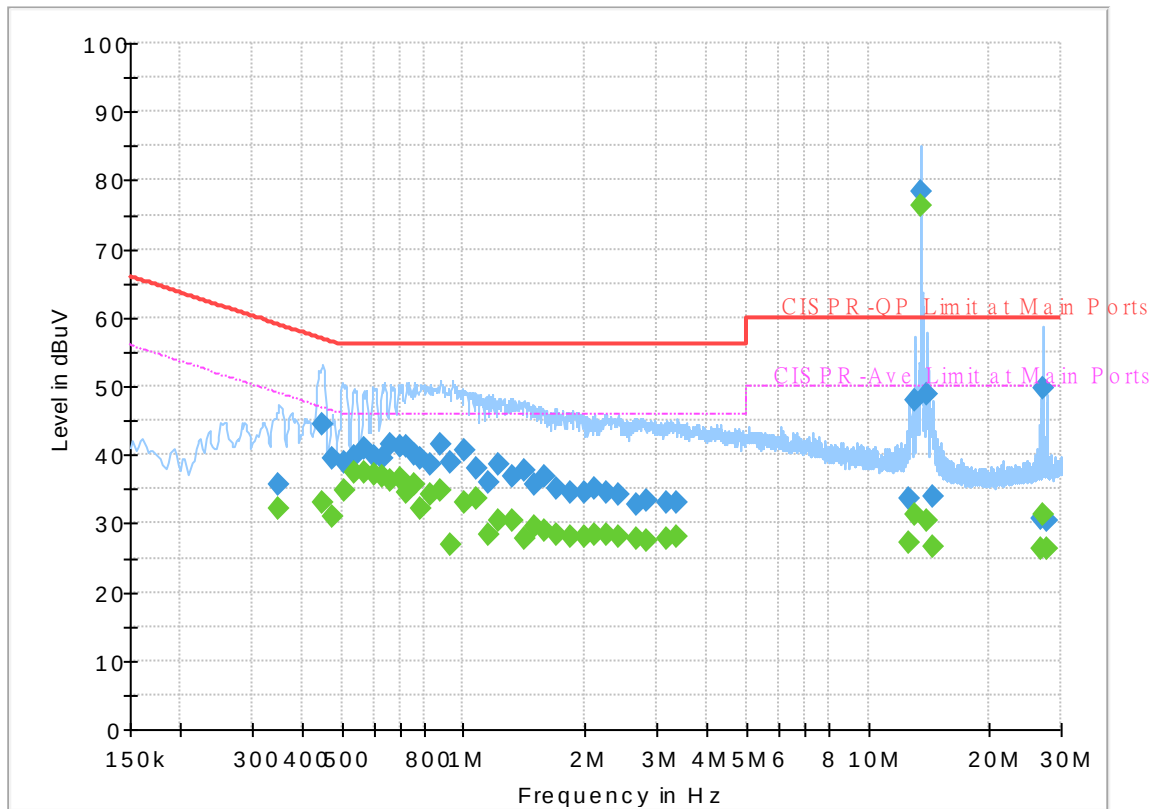
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.411000	---	34.97	47.63	12.66	L1	OFF	19.4
0.411000	38.40	---	57.63	19.23	L1	OFF	19.4
0.444750	---	33.18	46.97	13.79	L1	OFF	19.4
0.444750	43.45	---	56.97	13.52	L1	OFF	19.4
0.475350	---	39.82	46.42	6.60	L1	OFF	19.4
0.475350	42.01	---	56.42	14.41	L1	OFF	19.4
0.505770	---	34.93	46.00	11.07	L1	OFF	19.5
0.505770	39.95	---	56.00	16.05	L1	OFF	19.5
0.539250	---	37.06	46.00	8.94	L1	OFF	19.5
0.539250	39.52	---	56.00	16.48	L1	OFF	19.5
0.570750	---	37.58	46.00	8.42	L1	OFF	19.5
0.570750	40.29	---	56.00	15.71	L1	OFF	19.5
0.601260	---	36.58	46.00	9.42	L1	OFF	19.5
0.601260	41.78	---	56.00	14.22	L1	OFF	19.5
0.630330	---	35.43	46.00	10.57	L1	OFF	19.5
0.630330	41.37	---	56.00	14.63	L1	OFF	19.5
0.663270	---	36.80	46.00	9.20	L1	OFF	19.5
0.663270	41.11	---	56.00	14.89	L1	OFF	19.5
0.691080	---	30.79	46.00	15.21	L1	OFF	19.5
0.691080	37.80	---	56.00	18.20	L1	OFF	19.5
0.724830	---	34.79	46.00	11.21	L1	OFF	19.5

0.724830	41.34	---	56.00	14.66	L1	OFF	19.5
0.765780	---	33.83	46.00	12.17	L1	OFF	19.5
0.765780	39.71	---	56.00	16.29	L1	OFF	19.5
0.822120	---	33.78	46.00	12.22	L1	OFF	19.5
0.822120	42.83	---	56.00	13.17	L1	OFF	19.5
0.879090	---	31.31	46.00	14.69	L1	OFF	19.5
0.879090	42.36	---	56.00	13.64	L1	OFF	19.5
0.942000	---	29.68	46.00	16.32	L1	OFF	19.5
0.942000	41.16	---	56.00	14.84	L1	OFF	19.5
1.005180	---	32.82	46.00	13.18	L1	OFF	19.5
1.005180	40.89	---	56.00	15.11	L1	OFF	19.5
1.082400	---	32.49	46.00	13.51	L1	OFF	19.5
1.082400	39.40	---	56.00	16.60	L1	OFF	19.5
1.135500	---	32.14	46.00	13.86	L1	OFF	19.5
1.135500	38.76	---	56.00	17.24	L1	OFF	19.5
1.225500	---	30.60	46.00	15.40	L1	OFF	19.5
1.225500	38.06	---	56.00	17.94	L1	OFF	19.5
1.307670	---	29.89	46.00	16.11	L1	OFF	19.5
1.307670	37.93	---	56.00	18.07	L1	OFF	19.5
1.410000	---	26.62	46.00	19.38	L1	OFF	19.5
1.410000	37.33	---	56.00	18.67	L1	OFF	19.5
2.237460	---	29.15	46.00	16.85	L1	OFF	19.6
2.237460	35.71	---	56.00	20.29	L1	OFF	19.6
12.732000	---	27.45	50.00	22.55	L1	OFF	20.0
12.732000	36.14	---	60.00	23.86	L1	OFF	20.0
13.123500	---	30.52	50.00	19.48	L1	OFF	20.0
13.123500	47.90	---	60.00	12.10	L1	OFF	20.0
13.560000	---	76.30	50.00	-26.30	L1	OFF	20.0
13.560000	78.22	---	60.00	-18.22	L1	OFF	20.0
14.005500	---	31.36	50.00	18.64	L1	OFF	20.0
14.005500	48.71	---	60.00	11.29	L1	OFF	20.0
14.394750	---	26.74	50.00	23.26	L1	OFF	20.1
14.394750	36.85	---	60.00	23.15	L1	OFF	20.1
26.671650	---	26.15	50.00	23.85	L1	OFF	20.4
26.671650	30.45	---	60.00	29.55	L1	OFF	20.4
27.120000	---	31.73	50.00	18.27	L1	OFF	20.4
27.120000	50.34	---	60.00	9.66	L1	OFF	20.4
27.573000	---	26.21	50.00	23.79	L1	OFF	20.4
27.573000	31.30	---	60.00	28.70	L1	OFF	20.4

Report NO : 862115-01
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.349530	---	32.08	48.97	16.89	N	OFF	19.5
0.349530	35.67	---	58.97	23.30	N	OFF	19.5
0.445560	---	33.09	46.96	13.87	N	OFF	19.5
0.445560	44.45	---	56.96	12.51	N	OFF	19.5
0.474000	---	30.93	46.44	15.51	N	OFF	19.5
0.474000	39.59	---	56.44	16.85	N	OFF	19.5
0.505500	---	34.88	46.00	11.12	N	OFF	19.5
0.505500	39.01	---	56.00	16.99	N	OFF	19.5
0.538350	---	37.29	46.00	8.71	N	OFF	19.5
0.538350	39.85	---	56.00	16.15	N	OFF	19.5
0.568500	---	37.33	46.00	8.67	N	OFF	19.5
0.568500	41.06	---	56.00	14.94	N	OFF	19.5
0.602250	---	37.21	46.00	8.79	N	OFF	19.5
0.602250	39.64	---	56.00	16.36	N	OFF	19.5
0.633750	---	36.85	46.00	9.15	N	OFF	19.5
0.633750	39.38	---	56.00	16.62	N	OFF	19.5
0.662370	---	36.34	46.00	9.66	N	OFF	19.5
0.662370	41.58	---	56.00	14.42	N	OFF	19.5
0.694500	---	36.68	46.00	9.32	N	OFF	19.5
0.694500	41.35	---	56.00	14.65	N	OFF	19.5
0.724290	---	34.47	46.00	11.53	N	OFF	19.5

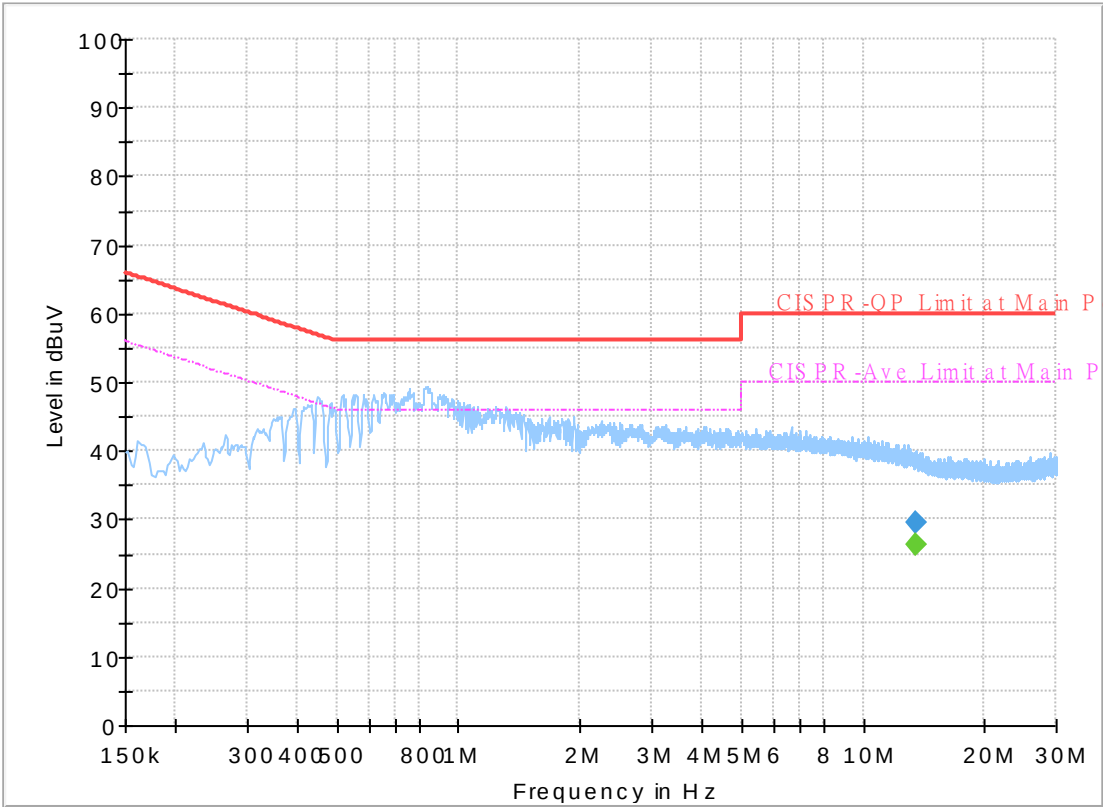
0.724290	41.20	---	56.00	14.80	N	OFF	19.5
0.759750	---	35.57	46.00	10.43	N	OFF	19.5
0.759750	39.96	---	56.00	16.04	N	OFF	19.5
0.781350	---	32.28	46.00	13.72	N	OFF	19.5
0.781350	39.42	---	56.00	16.58	N	OFF	19.5
0.827250	---	34.11	46.00	11.89	N	OFF	19.6
0.827250	38.71	---	56.00	17.29	N	OFF	19.6
0.879000	---	34.83	46.00	11.17	N	OFF	19.6
0.879000	41.47	---	56.00	14.53	N	OFF	19.6
0.933000	---	26.86	46.00	19.14	N	OFF	19.6
0.933000	38.78	---	56.00	17.22	N	OFF	19.6
1.005000	---	32.97	46.00	13.03	N	OFF	19.6
1.005000	40.76	---	56.00	15.24	N	OFF	19.6
1.074750	---	33.75	46.00	12.25	N	OFF	19.6
1.074750	38.00	---	56.00	18.00	N	OFF	19.6
1.151250	---	28.30	46.00	17.70	N	OFF	19.6
1.151250	36.10	---	56.00	19.90	N	OFF	19.6
1.226310	---	30.27	46.00	15.73	N	OFF	19.6
1.226310	38.68	---	56.00	17.32	N	OFF	19.6
1.322070	---	30.28	46.00	15.72	N	OFF	19.6
1.322070	36.85	---	56.00	19.15	N	OFF	19.6
1.414500	---	27.92	46.00	18.08	N	OFF	19.6
1.414500	37.81	---	56.00	18.19	N	OFF	19.6
1.493250	---	29.65	46.00	16.35	N	OFF	19.6
1.493250	35.54	---	56.00	20.46	N	OFF	19.6
1.590990	---	29.06	46.00	16.94	N	OFF	19.6
1.590990	36.73	---	56.00	19.27	N	OFF	19.6
1.693500	---	28.40	46.00	17.60	N	OFF	19.6
1.693500	35.14	---	56.00	20.86	N	OFF	19.6
1.844250	---	28.06	46.00	17.94	N	OFF	19.6
1.844250	34.50	---	56.00	21.50	N	OFF	19.6
1.981500	---	28.05	46.00	17.95	N	OFF	19.6
1.981500	34.48	---	56.00	21.52	N	OFF	19.6
2.107500	---	28.33	46.00	17.67	N	OFF	19.7
2.107500	34.99	---	56.00	21.01	N	OFF	19.7
2.263020	---	28.30	46.00	17.70	N	OFF	19.7
2.263020	34.45	---	56.00	21.55	N	OFF	19.7
2.411250	---	28.01	46.00	17.99	N	OFF	19.7
2.411250	34.15	---	56.00	21.85	N	OFF	19.7
2.686290	---	27.89	46.00	18.11	N	OFF	19.7
2.686290	32.79	---	56.00	23.21	N	OFF	19.7
2.847120	---	27.46	46.00	18.54	N	OFF	19.7
2.847120	33.19	---	56.00	22.81	N	OFF	19.7
3.185250	---	27.88	46.00	18.12	N	OFF	19.7
3.185250	33.07	---	56.00	22.93	N	OFF	19.7
3.379740	---	27.96	46.00	18.04	N	OFF	19.7
3.379740	32.91	---	56.00	23.09	N	OFF	19.7
12.619770	---	27.26	50.00	22.74	N	OFF	20.1
12.619770	33.60	---	60.00	26.40	N	OFF	20.1
13.116750	---	31.15	50.00	18.85	N	OFF	20.1
13.116750	48.08	---	60.00	11.92	N	OFF	20.1
13.560000	---	76.41	50.00	-26.41	N	OFF	20.2
13.560000	78.32	---	60.00	-18.32	N	OFF	20.2
14.004420	---	30.41	50.00	19.59	N	OFF	20.2
14.004420	48.79	---	60.00	11.21	N	OFF	20.2
14.498970	---	26.55	50.00	23.45	N	OFF	20.2
14.498970	33.90	---	60.00	26.10	N	OFF	20.2
26.650230	---	26.34	50.00	23.66	N	OFF	20.6
26.650230	30.80	---	60.00	29.20	N	OFF	20.6
27.120000	---	31.38	50.00	18.62	N	OFF	20.6
27.120000	49.73	---	60.00	10.27	N	OFF	20.6
27.584790	---	26.23	50.00	23.77	N	OFF	20.7
27.584790	30.33	---	60.00	29.67	N	OFF	20.7

Terminal Mode

Report NO :
Test Mode :
Test Voltage :
Phase :

862115-01
Mode 2
120Vac/60Hz
Line

Full Spectrum

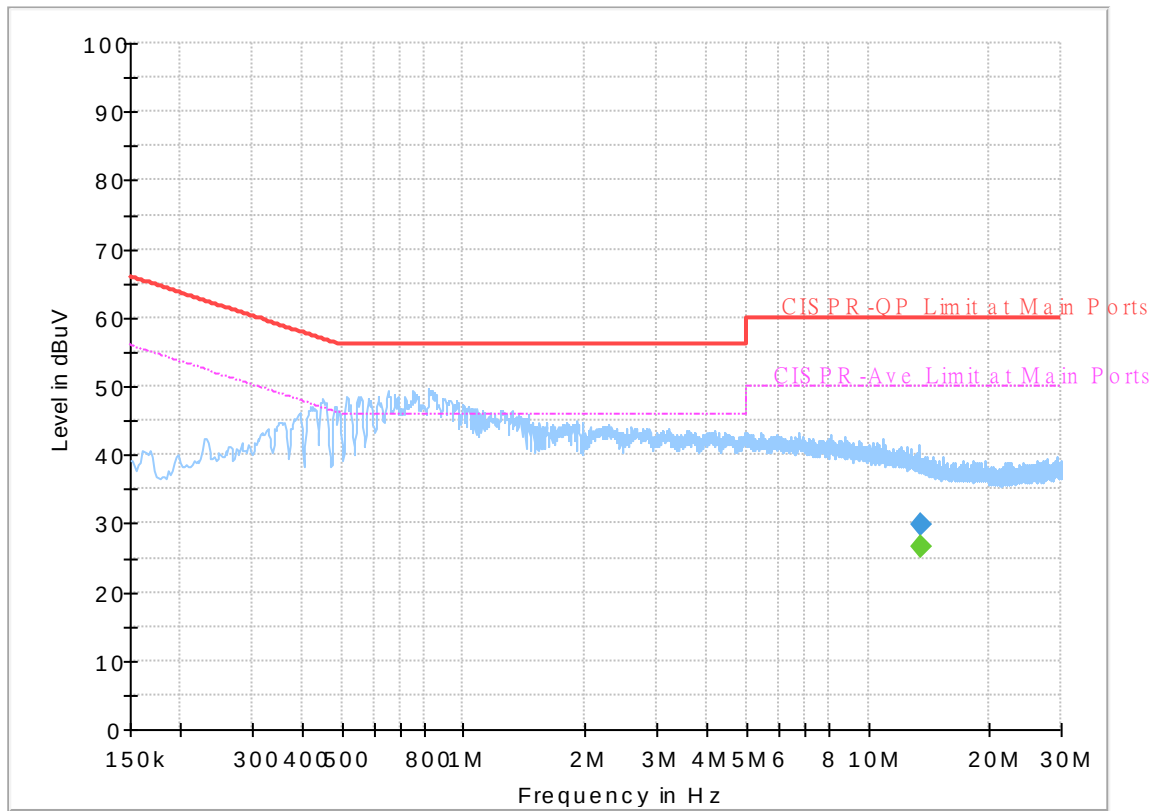


Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.38	50.00	23.62	L1	OFF	20.1
13.560000	29.55	---	60.00	30.45	L1	OFF	20.1

Report NO : 862115-01
 Test Mode : Mode 2
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
13.560000	---	26.47	50.00	23.53	N	OFF	20.2
13.560000	29.83	---	60.00	30.17	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23~25°C
		Relative Humidity :	53~60%

<For SKU 1>

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preampl Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 11 2462MHz	*	2462	101.71	-	-	86.92	32.13	8.09	35.44	305	301	P	H
	*	2462	94.16	-	-	79.37	32.13	8.09	35.44	305	301	A	H
		2484.48	61.21	-12.79	74	46.48	32.07	8.12	35.45	305	301	P	H
		2483.52	50.54	-3.46	54	35.81	32.07	8.12	35.45	305	301	A	H
													H
													H
	*	2462	104.67	-	-	89.88	32.13	8.09	35.44	127	360	P	V
	*	2462	96.93	-	-	82.14	32.13	8.09	35.44	127	360	A	V
		2484	62.75	-11.25	74	48.02	32.07	8.12	35.45	127	360	P	V
		2483.6	51.24	-2.76	54	36.51	32.07	8.12	35.45	127	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 802.11g (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (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	40.08	-33.92	74	52.41	34.17	12.14	58.64	100	0	P	H
		7386	39.88	-34.12	74	47.17	35.7	14.55	57.54	100	0	P	H
													H
													H
		4924	40.22	-33.78	74	52.55	34.17	12.14	58.64	100	0	P	V
		7386	40.92	-33.08	74	48.21	35.7	14.55	57.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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 802.11g LF		78.87	24.06	-15.94	40	39.4	13.15	1.49	29.98	-	-	P	H
		131.25	28.31	-15.19	43.5	38.76	17.59	1.92	29.96	-	-	P	H
		149.88	26.43	-17.07	43.5	37.08	17.25	2.05	29.95	-	-	P	H
		647.2	35.39	-10.61	46	34.61	26.21	4.32	29.75	100	0	P	H
		692.7	34.59	-11.41	46	33.47	26.33	4.47	29.68	-	-	P	H
		741.7	34.39	-11.61	46	31.7	27.65	4.62	29.58	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	32.74	-7.26	40	37.5	24.32	0.93	30.01	100	0	P	V
		35.94	30.4	-9.6	40	37.95	21.44	1.01	30	-	-	P	V
		57	32.26	-7.74	40	48.98	12	1.27	29.99	-	-	P	V
		650.7	35.24	-10.76	46	34.45	26.21	4.33	29.75	-	-	P	V
		764.8	32.82	-13.18	46	29.86	27.79	4.7	29.53	-	-	P	V
		956.6	32.43	-13.57	46	25.31	30.5	5.28	28.66	-	-	P	V
													V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<For SKU 2>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	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		2340.87	52.63	-21.37	74	38.11	32	17.92	35.4	129	297	P	H
		2390	41.66	-12.34	54	27.17	31.9	18.01	35.42	129	297	A	H
	*	2412	102.3	-	-	87.68	32	18.04	35.42	129	297	P	H
	*	2412	99.37	-	-	84.75	32	18.04	35.42	129	297	A	H
													H
													H
		2323.545	52.34	-21.66	74	37.95	31.9	17.88	35.39	100	334	P	V
		2390	41.69	-12.31	54	27.2	31.9	18.01	35.42	100	334	A	V
	*	2412	103.95	-	-	89.33	32	18.04	35.42	100	334	P	V
	*	2412	100.98	-	-	86.36	32	18.04	35.42	100	334	A	V
													V
													V
802.11b CH 06 2437MHz		2349.2	51.93	-22.07	74	37.4	32	17.93	35.4	127	299	P	H
		2389.24	41.44	-12.56	54	26.94	31.9	18.01	35.41	127	299	A	H
	*	2437	99.98	-	-	85.15	32.2	18.06	35.43	127	299	P	H
	*	2437	96.99	-	-	82.16	32.2	18.06	35.43	127	299	A	H
		2498.6	52.61	-21.39	74	37.94	32	18.13	35.46	127	299	P	H
		2483.97	41.77	-12.23	54	27.04	32.07	18.11	35.45	127	299	A	H
		2351.02	52.21	-21.79	74	37.68	32	17.93	35.4	223	17	P	V
		2389.94	41.59	-12.41	54	27.1	31.9	18.01	35.42	223	17	A	V
	*	2437	102.53	-	-	87.7	32.2	18.06	35.43	223	17	P	V
	*	2437	99.51	-	-	84.68	32.2	18.06	35.43	223	17	A	V
		2493.35	52.5	-21.5	74	37.83	32	18.13	35.46	223	17	P	V
		2483.69	41.85	-12.15	54	27.12	32.07	18.11	35.45	223	17	A	V



802.11b CH 11 2462MHz	*	2462	101.93	-	-	87.14	32.13	18.1	35.44	106	293	P	H
	*	2462	98.83	-	-	84.04	32.13	18.1	35.44	106	293	A	H
		2483.88	52.49	-21.51	74	37.76	32.07	18.11	35.45	106	293	P	H
		2483.52	43.86	-10.14	54	29.13	32.07	18.11	35.45	106	293	A	H
													H
													H
	*	2462	104.41	-	-	89.62	32.13	18.1	35.44	107	7	P	V
	*	2462	101.29	-	-	86.5	32.13	18.1	35.44	107	7	A	V
		2483.52	52.95	-21.05	74	38.22	32.07	18.11	35.45	107	7	P	V
		2483.52	44.84	-9.16	54	30.11	32.07	18.11	35.45	107	7	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)	Over Limit (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	39.34	-34.66	74	52.21	34.15	11.87	58.89	100	0	P	H
													H
													H
													H
		4824	41	-33	74	53.87	34.15	11.87	58.89	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	40.31	-33.69	74	52.96	34.1	12.01	58.76	100	0	P	H
		7311	42.01	-31.99	74	49.32	35.7	14.46	57.47	100	0	P	H
													H
													H
		4874	40.89	-33.11	74	53.54	34.1	12.01	58.76	100	0	P	V
		7311	41.87	-32.13	74	49.18	35.7	14.46	57.47	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	39.56	-34.44	74	51.89	34.17	12.14	58.64	100	0	P	H
		7386	40.34	-33.66	74	47.63	35.7	14.55	57.54	100	0	P	H
													H
													H
		4924	40.18	-33.82	74	52.51	34.17	12.14	58.64	100	0	P	V
		7386	40.35	-33.65	74	47.64	35.7	14.55	57.54	100	0	P	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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	62.98	-11.02	74	48.49	31.9	18.01	35.42	220	306	P	H
		2389.905	49.28	-4.72	54	34.79	31.9	18.01	35.42	220	306	A	H
	*	2412	102.5	-	-	87.88	32	18.04	35.42	220	306	P	H
	*	2412	95.22	-	-	80.6	32	18.04	35.42	220	306	A	H
													H
													H
		2390	67.6	-6.4	74	53.11	31.9	18.01	35.42	158	10	P	V
		2390	51.35	-2.65	54	36.86	31.9	18.01	35.42	158	10	A	V
	*	2412	104.35	-	-	89.73	32	18.04	35.42	158	10	P	V
	*	2412	97.25	-	-	82.63	32	18.04	35.42	158	10	A	V
													V
													V
802.11g CH 06 2437MHz		2319.24	52.19	-21.81	74	37.81	31.9	17.87	35.39	127	300	P	H
		2383.08	42.28	-11.72	54	27.76	31.93	18	35.41	127	300	A	H
	*	2437	99.37	-	-	84.54	32.2	18.06	35.43	127	300	P	H
	*	2437	91.83	-	-	77	32.2	18.06	35.43	127	300	A	H
		2490.97	51.79	-22.21	74	37.12	32	18.12	35.45	127	300	P	H
		2492.58	42.65	-11.35	54	27.99	32	18.12	35.46	127	300	A	H
		2385.46	51.29	-22.71	74	36.77	31.93	18	35.41	224	16	P	V
		2389.94	42.35	-11.65	54	27.86	31.9	18.01	35.42	224	16	A	V
	*	2437	102.3	-	-	87.47	32.2	18.06	35.43	224	16	P	V
	*	2437	94.42	-	-	79.59	32.2	18.06	35.43	224	16	A	V
		2494.89	52.82	-21.18	74	38.15	32	18.13	35.46	224	16	P	V
		2484.74	42.82	-11.18	54	28.09	32.07	18.11	35.45	224	16	A	V



802.11g CH 11 2462MHz	*	2462	101.99	-	-	87.2	32.13	18.1	35.44	106	294	P	H
	*	2462	94.11	-	-	79.32	32.13	18.1	35.44	106	294	A	H
		2483.64	59.52	-14.48	74	44.79	32.07	18.11	35.45	106	294	P	H
		2483.6	48.85	-5.15	54	34.12	32.07	18.11	35.45	106	294	A	H
													H
													H
	*	2462	103.96	-	-	89.17	32.13	18.1	35.44	108	5	P	V
	*	2462	96.03	-	-	81.24	32.13	18.1	35.44	108	5	A	V
		2484.32	62.95	-11.05	74	48.22	32.07	18.11	35.45	108	5	P	V
		2483.6	51.38	-2.62	54	36.65	32.07	18.11	35.45	108	5	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)	Over Limit (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	40.25	-33.75	74	53.12	34.15	11.87	58.89	100	0	P	H
													H
													H
													H
		4824	39.69	-34.31	74	52.56	34.15	11.87	58.89	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	40.03	-33.97	74	52.68	34.1	12.01	58.76	100	0	P	H
		7311	41.81	-32.19	74	49.12	35.7	14.46	57.47	100	0	P	H
													H
													H
		4874	40.36	-33.64	74	53.01	34.1	12.01	58.76	100	0	P	V
		7311	41.41	-32.59	74	48.72	35.7	14.46	57.47	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	40.42	-33.58	74	52.75	34.17	12.14	58.64	100	0	P	H
		7386	40.75	-33.25	74	48.04	35.7	14.55	57.54	100	0	P	H
													H
													H
		4924	40.99	-33.01	74	53.32	34.17	12.14	58.64	100	0	P	V
		7386	40.8	-33.2	74	48.09	35.7	14.55	57.54	100	0	P	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 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	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		2388.015	54.93	-19.07	74	40.43	31.9	18.01	35.41	220	307	P	H
		2389.695	44.02	-9.98	54	29.52	31.9	18.01	35.41	220	307	A	H
	*	2412	99.93	-	-	85.31	32	18.04	35.42	220	307	P	H
	*	2412	92.65	-	-	78.03	32	18.04	35.42	220	307	A	H
													H
													H
		2389.59	61.67	-12.33	74	47.17	31.9	18.01	35.41	156	7	P	V
		2389.695	47.27	-6.73	54	32.77	31.9	18.01	35.41	156	7	A	V
	*	2412	104.36	-	-	89.74	32	18.04	35.42	156	7	P	V
	*	2412	96.67	-	-	82.05	32	18.04	35.42	156	7	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2380.98	53.07	-20.93	74	38.55	31.93	18	35.41	127	300	P	H
		2365.16	42.39	-11.61	54	27.87	31.97	17.96	35.41	127	300	A	H
	*	2437	99.01	-	-	84.18	32.2	18.06	35.43	127	300	P	H
	*	2437	91.43	-	-	76.6	32.2	18.06	35.43	127	300	A	H
		2493.98	52.16	-21.84	74	37.49	32	18.13	35.46	127	300	P	H
		2487.33	42.53	-11.47	54	27.79	32.07	18.12	35.45	127	300	A	H
		2388.4	51.67	-22.33	74	37.17	31.9	18.01	35.41	224	14	P	V
		2388.68	42.32	-11.68	54	27.82	31.9	18.01	35.41	224	14	A	V
	*	2437	101.45	-	-	86.62	32.2	18.06	35.43	224	14	P	V
	*	2437	93.7	-	-	78.87	32.2	18.06	35.43	224	14	A	V
		2494.89	51.88	-22.12	74	37.21	32	18.13	35.46	224	14	P	V
		2484.46	42.75	-11.25	54	28.02	32.07	18.11	35.45	224	14	A	V



802.11n HT20 CH 11 2462MHz	*	2462	101.35	-	-	86.56	32.13	18.1	35.44	121	299	P	H
	*	2462	93.67	-	-	78.88	32.13	18.1	35.44	121	299	A	H
		2483.96	59.24	-14.76	74	44.51	32.07	18.11	35.45	121	299	P	H
		2483.96	45.45	-8.55	54	30.72	32.07	18.11	35.45	121	299	A	H
													H
													H
	*	2462	103.53	-	-	88.74	32.13	18.1	35.44	128	5	P	V
	*	2462	95.73	-	-	80.94	32.13	18.1	35.44	128	5	A	V
		2484.36	60.61	-13.39	74	45.88	32.07	18.11	35.45	128	5	P	V
		2483.68	47.52	-6.48	54	32.79	32.07	18.11	35.45	128	5	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)	Over Limit (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	41.33	-32.67	74	54.2	34.15	11.87	58.89	100	0	P	H
													H
													H
													H
		4824	40.55	-33.45	74	53.42	34.15	11.87	58.89	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	41.55	-32.45	74	54.2	34.1	12.01	58.76	100	0	P	H
		7311	41.12	-32.88	74	48.43	35.7	14.46	57.47	100	0	P	H
													H
													H
		4874	40.13	-33.87	74	52.78	34.1	12.01	58.76	100	0	P	V
		7311	41.48	-32.52	74	48.79	35.7	14.46	57.47	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	39.69	-34.31	74	52.02	34.17	12.14	58.64	100	0	P	H
		7386	41.48	-32.52	74	48.77	35.7	14.55	57.54	100	0	P	H
													H
													H
		4924	40.07	-33.93	74	52.4	34.17	12.14	58.64	100	0	P	V
		7386	40.66	-33.34	74	47.95	35.7	14.55	57.54	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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 802.11g LF		53.49	22.22	-17.78	40	37.84	13.14	1.23	29.99	-	-	P	H
		81.03	24.87	-15.13	40	39.88	13.46	1.51	29.98	-	-	P	H
		134.49	29.24	-14.26	43.5	39.71	17.55	1.94	29.96	-	-	P	H
		643	37.02	-8.98	46	36.31	26.16	4.31	29.76	100	0	P	H
		710.2	35.75	-10.25	46	34.6	26.28	4.52	29.65	-	-	P	H
		958.7	32.8	-13.2	46	25.73	30.44	5.28	28.65	-	-	P	H
													H
													H
													H
													H
													H
													H
		30	31.5	-8.5	40	36.26	24.32	0.93	30.01	-	-	P	V
		39.18	29.53	-10.47	40	38.6	19.87	1.06	30	-	-	P	V
		57.27	31.13	-8.87	40	47.85	12	1.27	29.99	-	-	P	V
		637.4	37.84	-8.16	46	37.2	26.12	4.29	29.77	100	0	P	V
		712.3	37.5	-8.5	46	36.23	26.38	4.53	29.64	-	-	P	V
		771.1	33.35	-12.65	46	30.37	27.76	4.73	29.51	-	-	P	V
													V
													V
													V
													V
													V
													V
												V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	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. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh and Ken Wu	Temperature :	23~25°C
		Relative Humidity :	53~60%

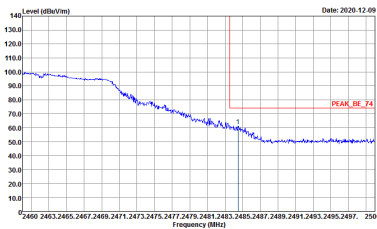
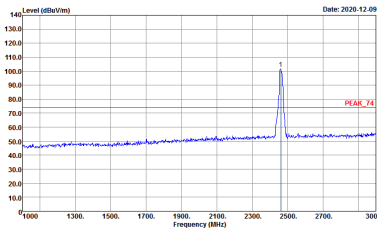
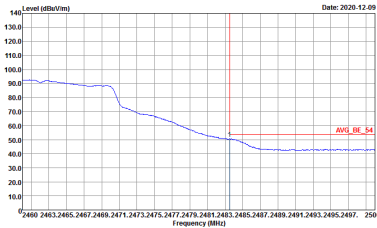
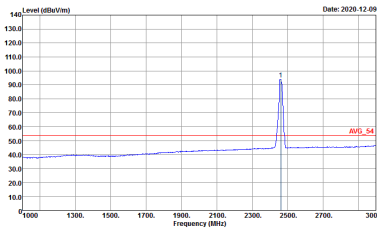
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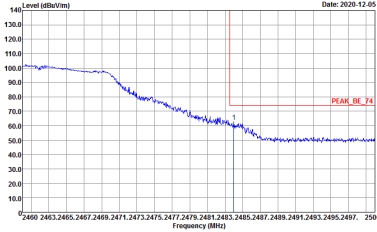
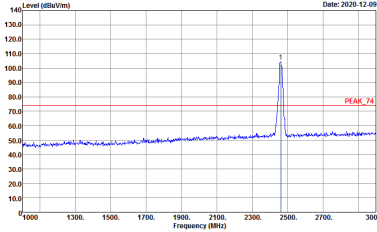
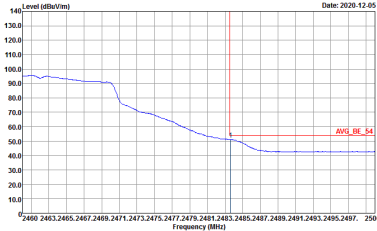
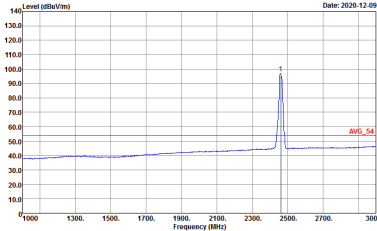
-L	Low channel location
-R	High channel location



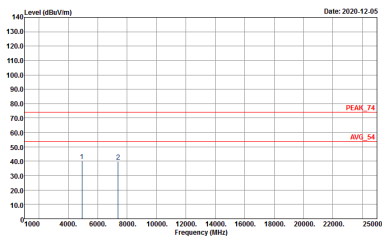
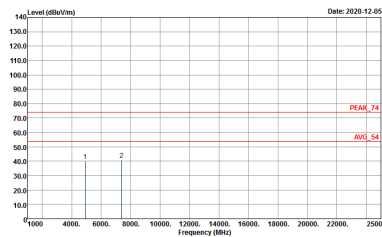
<For SKU 1>

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

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_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 23	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 23
Avg.	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 23	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 23

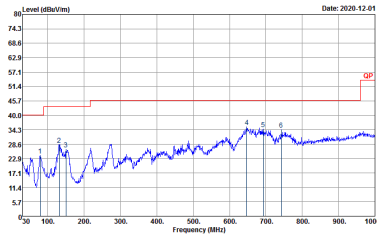
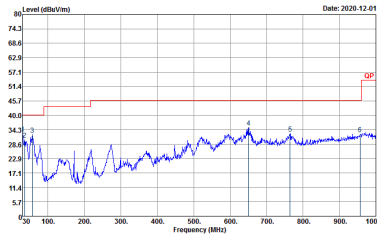
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_BE_74 3m HF_ANT_00227880 VERTICAL Detector : RBW1000.000kHz VBW3000.000kHz SWTAuto Project : Peak Mode : 862115-01 : 23	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : RBW1000.000kHz VBW3000.000kHz SWTAuto Project : Peak Mode : 862115-01 : 23
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227880 VERTICAL Detector : RBW1000.000kHz VBW3000.000kHz SWTAuto Project : Peak Mode : 862115-01 : 23	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL Detector : RBW1000.000kHz VBW3000.000kHz SWTAuto Project : Peak Mode : 862115-01 : 23

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

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-4Y Condition : PEAK_74.3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 23	 Site : 03CH07-4Y Condition : PEAK_74.3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 23



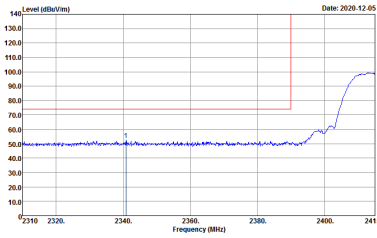
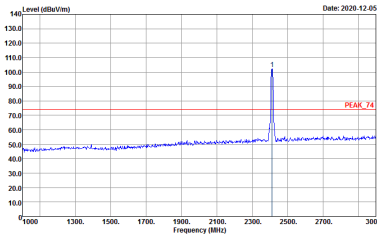
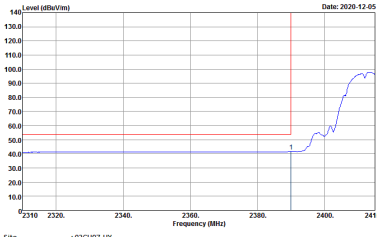
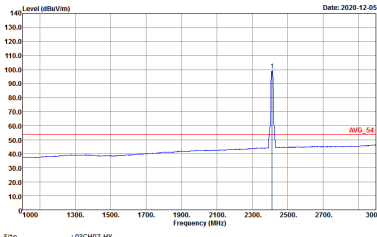
Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CM02-09 Condition : QP 3m LF-ANT-35419(6) HORIZONTAL Detector : Peak Project : 862115-01 Mode : 24	 Site : 03CM02-09 Condition : QP 3m LF-ANT-35419(6) VERTICAL Detector : Peak Project : 862115-01 Mode : 24



<For SKU 2>

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_86_74.3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 19	 Site : 03CH07-HY Condition : PEAK_74.3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 19
Avg.	 Site : 03CH07-HY Condition : AVG_86_54.3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 19	 Site : 03CH07-HY Condition : AVG_54.3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 19

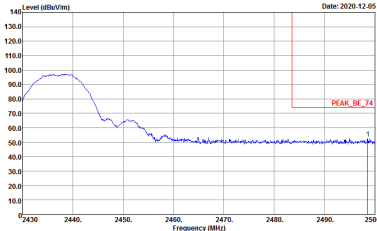
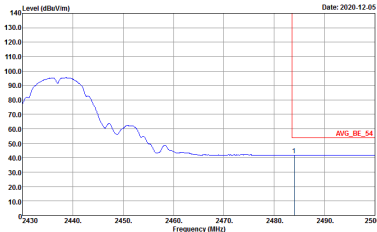


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 9	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 9
	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : 862115-01 Mode : 9	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : 862115-01 Mode : 9



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_86_74 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10
Avg.	Site : 03CH07-HY Condition : AVG_86_54 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10

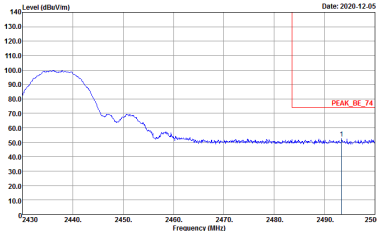
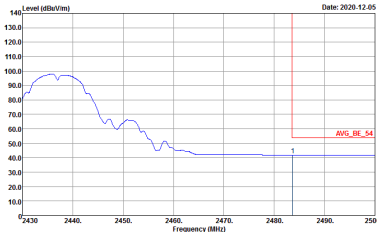


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PSK, BE_74 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG, BE_54 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10	Left blank

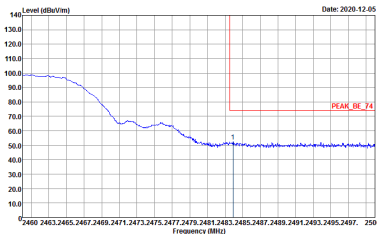
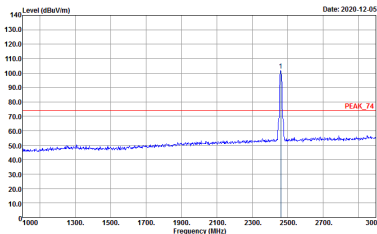
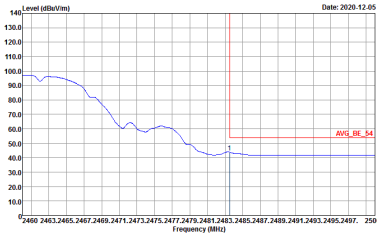
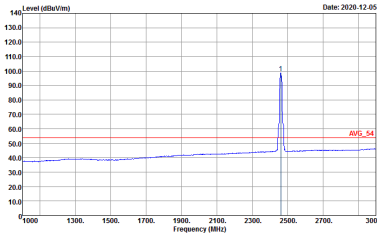


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_BE_74.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 10	Site : 03CH07-HY Condition : PEAK_74.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 10
	Site : 03CH07-HY Condition : AVG_BE_54.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : 862115-01 Mode : 10	Site : 03CH07-HY Condition : AVG_54.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Project : 862115-01 Mode : 10

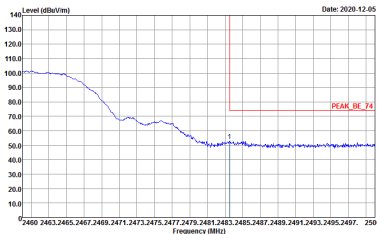
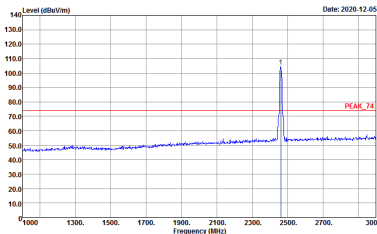
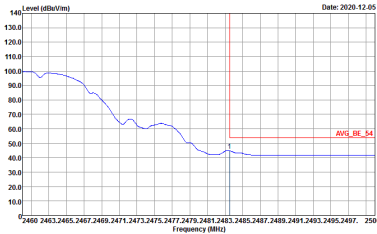
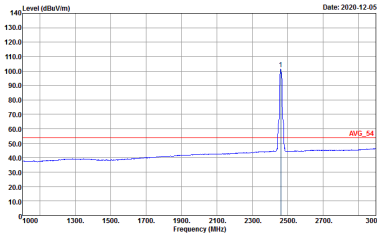


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PSK, BE_74.3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10	Left blank
Avg.	 Site : 03CH07-HY Condition : AVG, BE_54.3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 10	Left blank



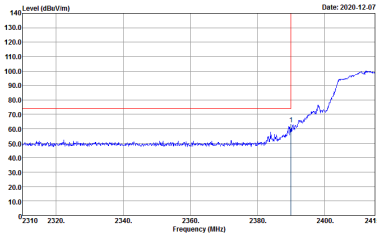
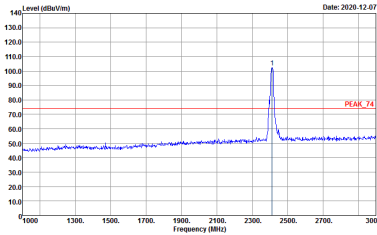
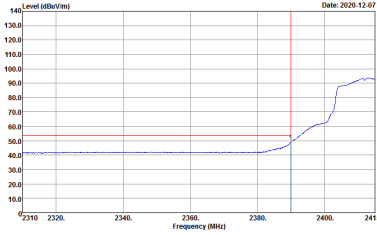
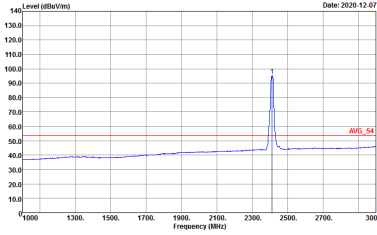
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : :PEAK_BE_74 3m HF_ANT_00227880 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11	 Site : 03CH07-HY Condition : :PEAK_74 3m HF_ANT_00227880 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11
Avg.	 Site : 03CH07-HY Condition : :AVG_BE_54 3m HF_ANT_00227880 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11	 Site : 03CH07-HY Condition : :AVG_54 3m HF_ANT_00227880 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11



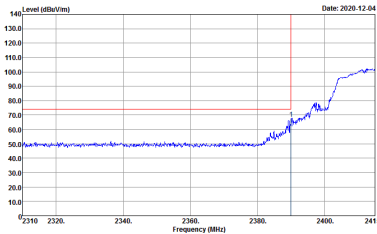
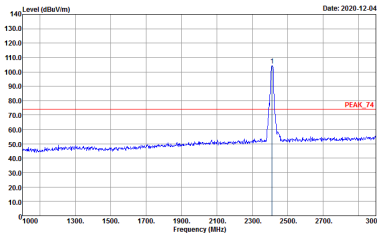
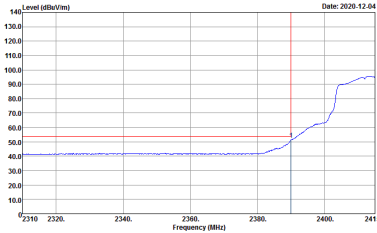
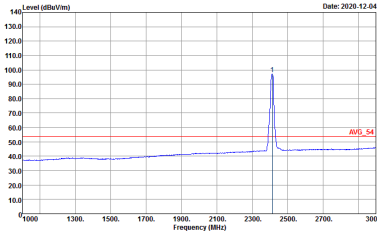
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : :PEAK_BE_74 3m HF_ANT_00227880 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11	 Site : 03CH07-HY Condition : :PEAK_74 3m HF_ANT_00227880 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11
	 Site : 03CH07-HY Condition : :AVG_BE_54 3m HF_ANT_00227880 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11	 Site : 03CH07-HY Condition : :AVG_54 3m HF_ANT_00227880 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 11



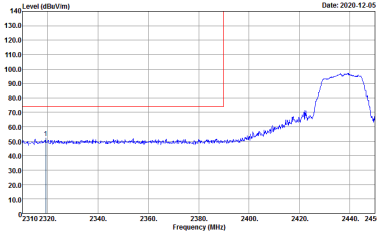
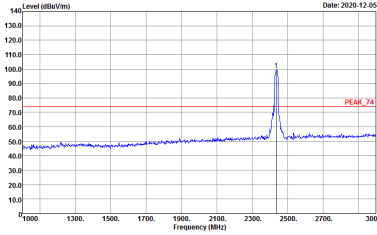
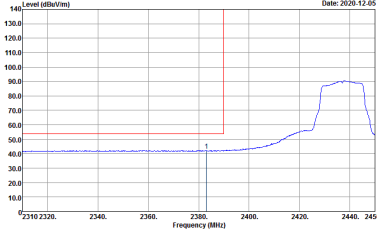
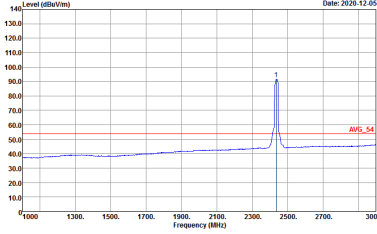
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PEAK_BE_78 3m HF_ANT_00227880 HORIZONTAL Detector : : Peak Project : : 862115-01 Mode : : 12 Date: 2020-12-07	 Site : 03CH07-HY Condition : : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : : Peak Project : : 862115-01 Mode : : 12 Date: 2020-12-07
Avg.	 Site : 03CH07-HY Condition : : AVG_BE_54 3m HF_ANT_00227880 HORIZONTAL Detector : : Peak Project : : 862115-01 Mode : : 12 Date: 2020-12-07	 Site : 03CH07-HY Condition : : AVG_54 3m HF_ANT_00227880 HORIZONTAL Detector : : Peak Project : : 862115-01 Mode : : 12 Date: 2020-12-07



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_00227880 VERTICAL Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 862115-01 12	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : Peak Mode : 862115-01 12
	 Site : 03CH07-HY Condition : AVG_BE_34 3m HF_ANT_00227880 VERTICAL Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 862115-01 12	 Site : 03CH07-HY Condition : AVG_34 3m HF_ANT_00227880 VERTICAL Detector : REW:1000.000kHz VBW:1.000kHz SWT:Auto Project : Peak Mode : 862115-01 12



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_8E_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 13	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 13
Avg.	 Site : 03CH07-HY Condition : AVG_8E_54 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 13	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 13

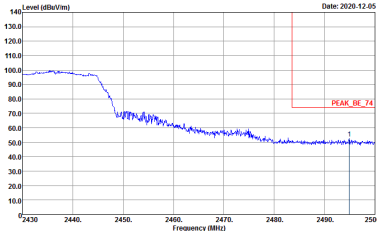
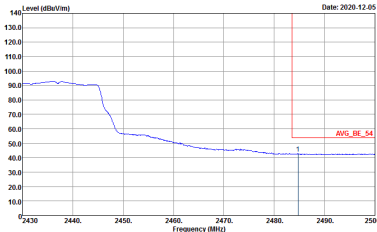


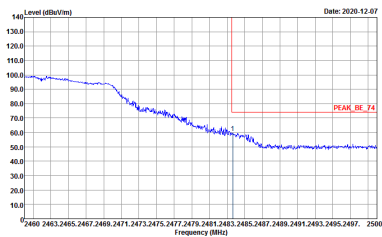
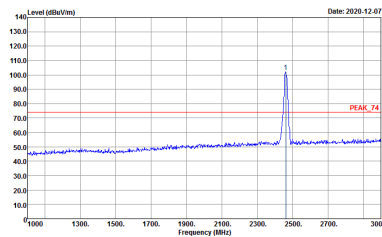
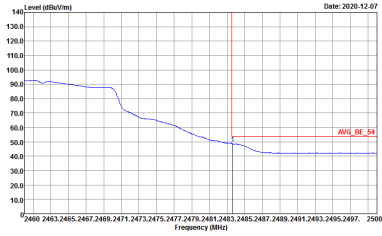
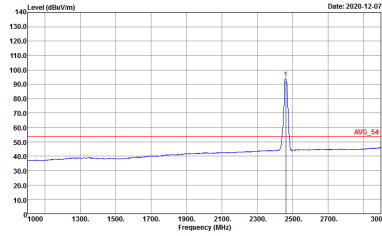
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	Site : 03CH07-HY Condition : : PSK, BE_74 3m HF_ANT_00227880 HORIZONTAL Detector : : Peak Project : 862115-01 Mode : 13	Left blank
Avg.	Site : 03CH07-HY Condition : : AVG, BE_54 3m HF_ANT_00227880 HORIZONTAL Detector : : Peak Project : 862115-01 Mode : 13	Left blank

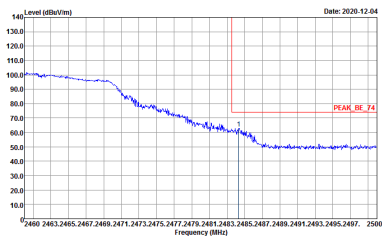
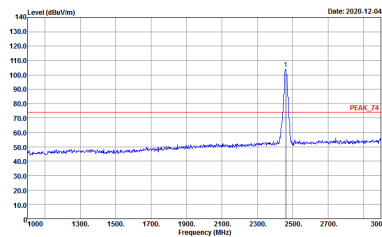
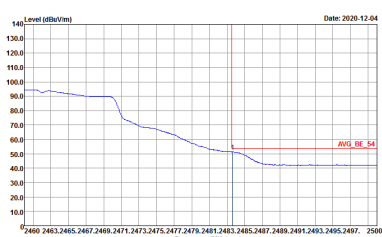
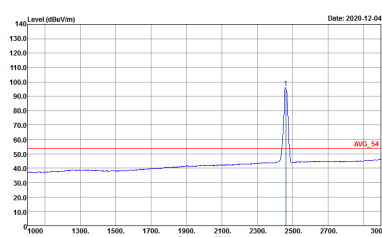


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 13	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 13
Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 13	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 13



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PSK, 802.11g, 3m HF, ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 13	Left Blank
Avg.	 Site : 03CH07-HY Condition : AVG, 802.11g, 3m HF, ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 13	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_00227880 HORIZONTAL Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 14	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : REW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 14
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227880 HORIZONTAL Detector : REW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 862115-01 Mode : 14	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 HORIZONTAL Detector : REW:1000.000kHz VBW:3.000kHz SWT:Auto Project : 862115-01 Mode : 14

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_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 14	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 14
	 Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 14	 Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 14

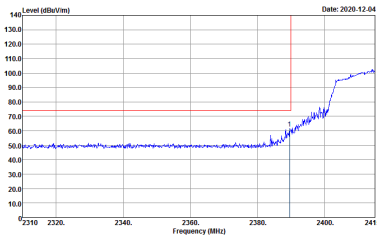
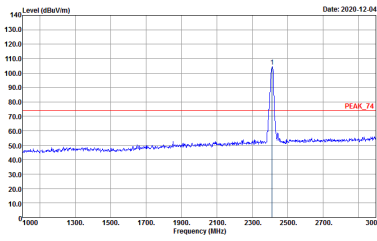
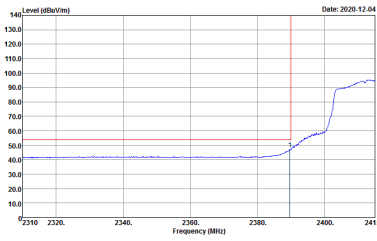
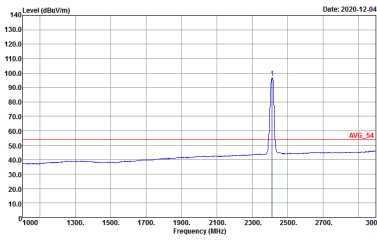


2.4GHz 2400~2483.5MHz

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 : 03CH07-HY Condition : PEAK_BE_78.3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 15	Site : 03CH07-HY Condition : PEAK_78.3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 15
Avg.	Site : 03CH07-HY Condition : AVG_BE_54.3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 15	Site : 03CH07-HY Condition : AVG_54.3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 15

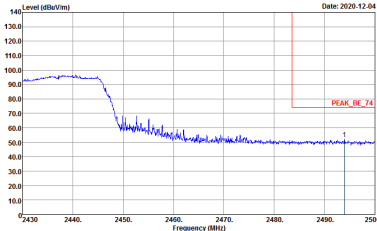
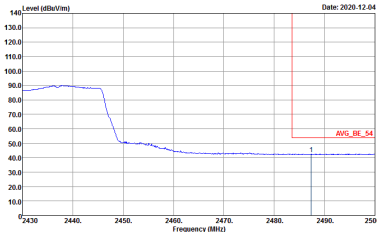


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : PEAK_8E_74.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 15	 Site : 03CH07-HY Condition : PEAK_74.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 15
	 Site : 03CH07-HY Condition : AVG_8E_74.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 15	 Site : 03CH07-HY Condition : AVG_74.3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 15



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_T4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 16	Site : 03CH07-HY Condition : PEAK_T4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 16
Avg.	Site : 03CH07-HY Condition : AVG_BE_S4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 16	Site : 03CH07-HY Condition : AVG_S4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 16

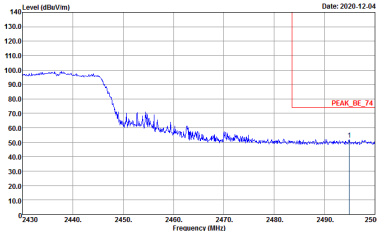
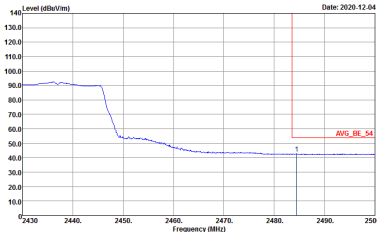


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH07-HY Condition : : PSK, BE_74 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 16	Left blank
Avg.	 Site : 03CH07-HY Condition : : AVG, BE_54 3m HF_ANT_00227880 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 16	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_74 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 16	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 16
Avg.	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 16	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 16



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH07-HY Condition : : PSK, 802.11n HT, ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 16	Left Blank
Avg.	 Site : 03CH07-HY Condition : : AVG, 802.11n HT, ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 16	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the peak level at approximately 100.0 dBuV/m. Site : 03CH07-HY Condition : :PEAK_BE_T4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 17	Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the peak level at approximately 100.0 dBuV/m. Site : 03CH07-HY Condition : :PEAK_T4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Project : 862115-01 Mode : 17
	Level (dBuV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the average level at approximately 100.0 dBuV/m. Site : 03CH07-HY Condition : :AVG_BE_S4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 17	Level (dBuV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red line indicates the average level at approximately 100.0 dBuV/m. Site : 03CH07-HY Condition : :AVG_S4 3m HF_ANT_00227880 HORIZONTAL Detector : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Project : 862115-01 Mode : 17



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_00227880 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 17	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 17
	Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 17	Site : 03CH07-HY Condition : AVG_54 3m HF_ANT_00227880 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 862115-01 Mode : 17
Avg.		



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_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 9	Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 9



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBu/m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 10	Level (dBu/m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 10



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 11	Level (dBuV/m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 11



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.	140 Level (dBm/1m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 12	140 Level (dBm/1m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 12



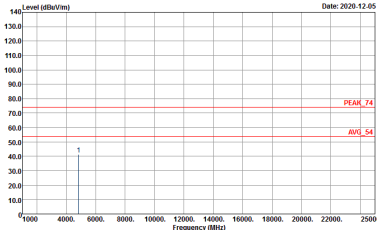
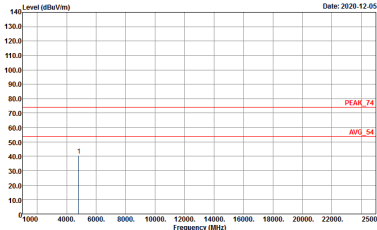
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-12-05 Frequency (MHz) Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 13	Level (dBuV/m) Date: 2020-12-05 Frequency (MHz) Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 13



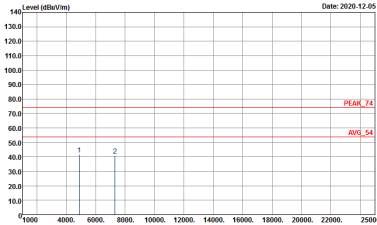
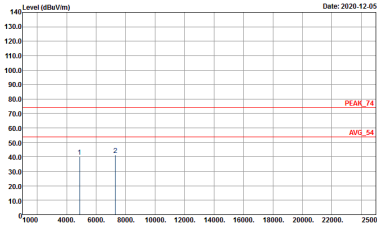
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020.12.05 Frequency (MHz) Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 14	Level (dBuV/m) Date: 2020.12.05 Frequency (MHz) Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 14



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.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 15	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 15

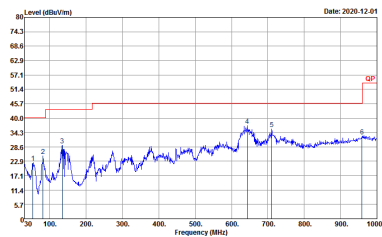
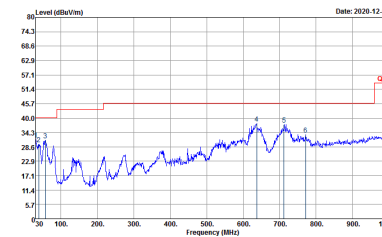


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 16	 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 16



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 HORIZONTAL Detector : Peak Project : 862115-01 Mode : 17	Level (dBuV/m) Date: 2020-12-05 Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00227880 VERTICAL Detector : Peak Project : 862115-01 Mode : 17

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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-15419(s) HORIZONTAL Detector : Peak Project : 862115-01 Mode : 18	 Site : 03CH07-HY Condition : QP 3m LF-ANT-15419(s) VERTICAL Detector : Peak Project : 862115-01 Mode : 18



Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100.00	-	-	10Hz	0.00
802.11g	93.49	1435	0.70	1kHz	0.29
2.4GHz 802.11n HT20	93.08	1345	0.74	1kHz	0.31

