



FCC RADIO TEST REPORT

FCC ID : 2AEUPBHASC081
Equipment : Stick Up Cam Pro
Brand Name : ring
Model Name : 5E72E9
Applicant : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Manufacturer : Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Apr. 28, 2022 and testing was performed from Jun. 06, 2022 to Aug. 17, 2022. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR242615B	01	Initial issue of report	Sep. 16, 2022
FR242615B	02	1. Revise Product Feature 2. This report is an updated version, replacing the report issued on Sep. 16, 2022.	Mar. 27, 2023

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	3.09 dB under the limit at 2483.520 MHz
3.6	15.207	AC Conducted Emission	Pass	16.97dB under the limit at 0.538MHz
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: Keven Cheng

Report Producer: Rachel Hsieh



1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, LoRa, and 24G Radar.

Product Feature		
Antenna Type	WLAN: PIFA Antenna Bluetooth-LE: PIFA Antenna LoRa: PIFA Antenna 24GHz Radar: Patch Antenna	
SW Version	1.12.21	
HW Version	B6	
Antenna information		
2412 MHz ~ 2462 MHz	Peak Gain (dBi)	3.94

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. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No. TH05-HY, 03CH15-HY, CO07-HY	

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

FCC designation No.: TW3786



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

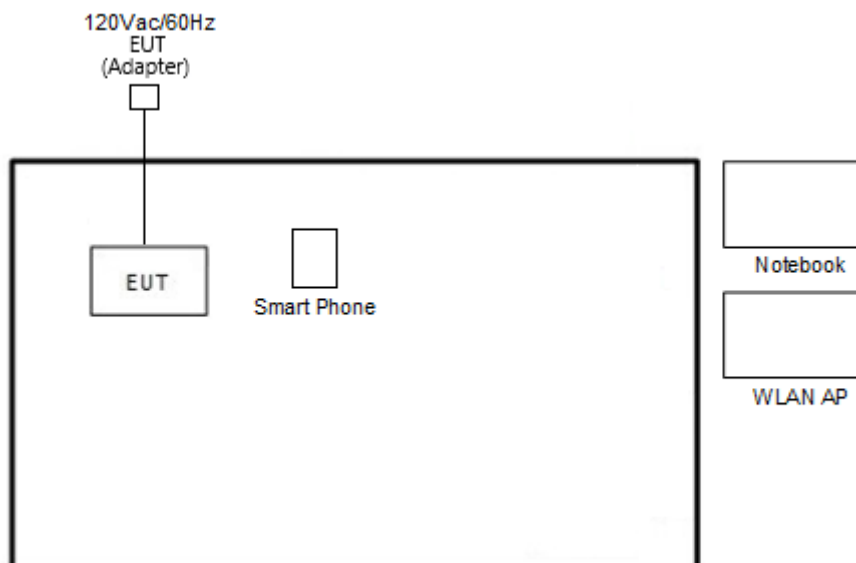
Test Cases	
AC Conducted Emission	Mode 1 :IR LED On + PIR Sensor On+ Lora Tx + WLAN (2.4GHz) Link + Camera On + Mounting Plate (Base) + Charging Battery 1 + Adapter + Bluetooth-LE Link + Speaker + 24G Radar On
Remark: For Radiated Test Cases, the tests were performed with Battery 1.	

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

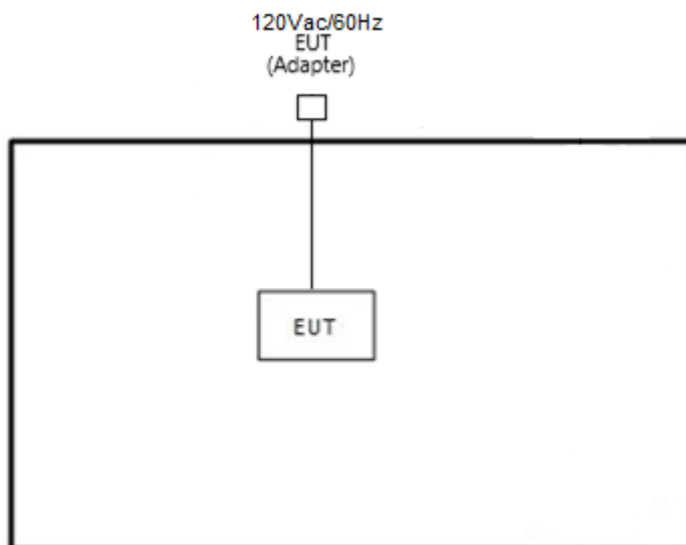
Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>



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-AC52	N/A	N/A	Unshielded,1.8 m
2.	Notebook	Dell	P79G	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Smart Phone	HTC	M9pw	N/A	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, utility “compliance 1.0.1.5” 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.

2.6 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

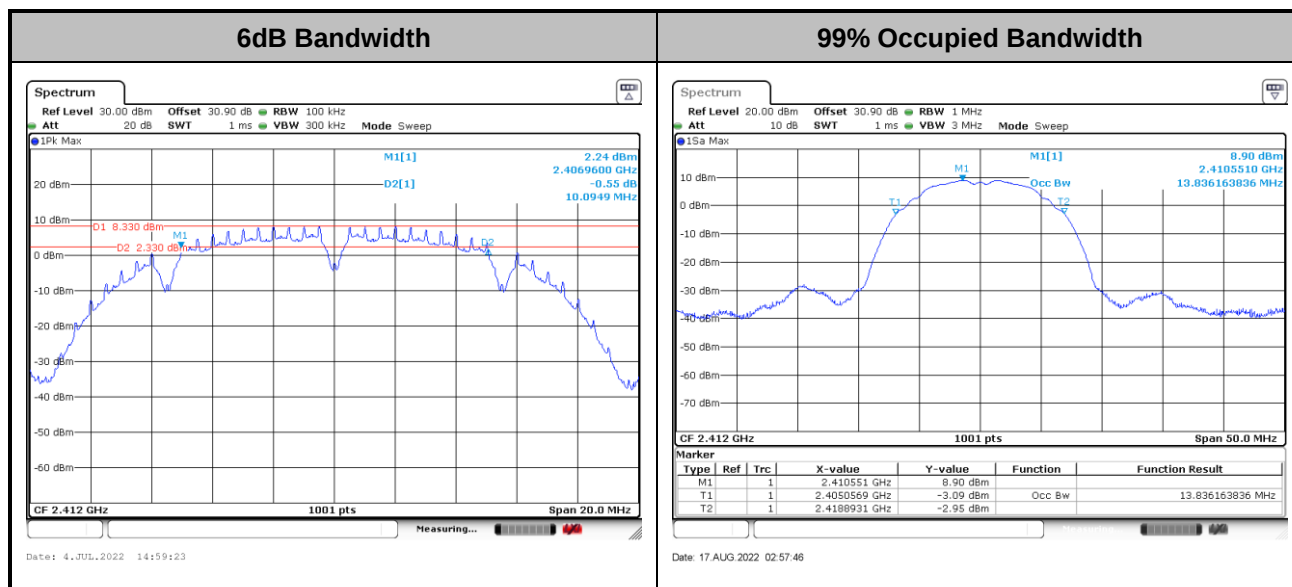




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

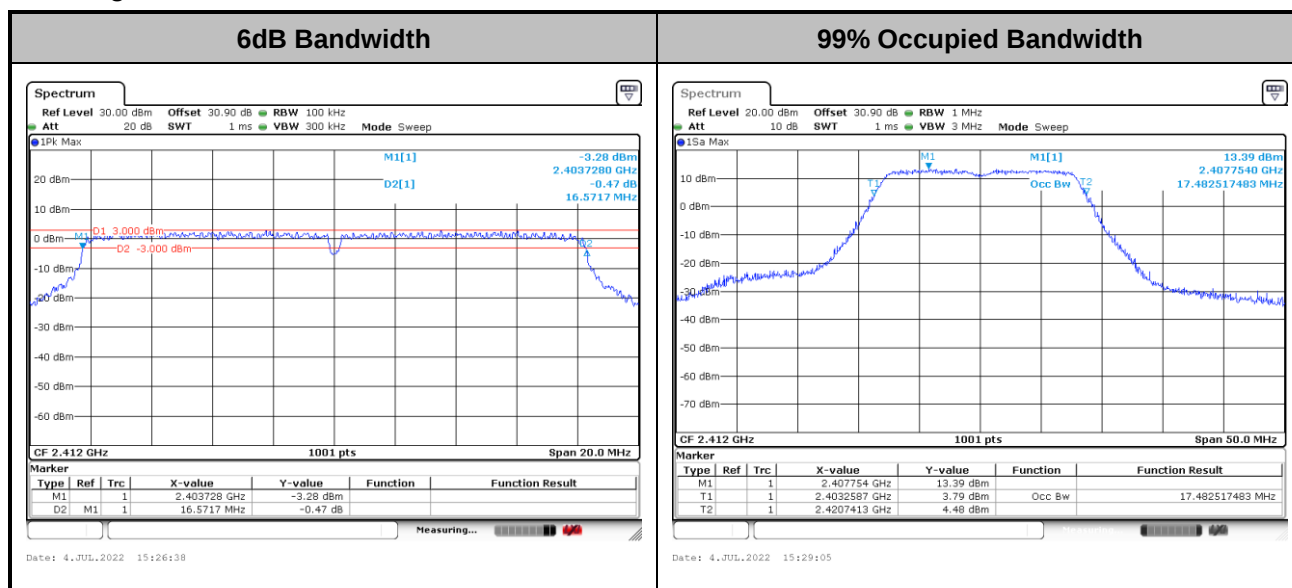
Please refer to Appendix A.

<802.11b>



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

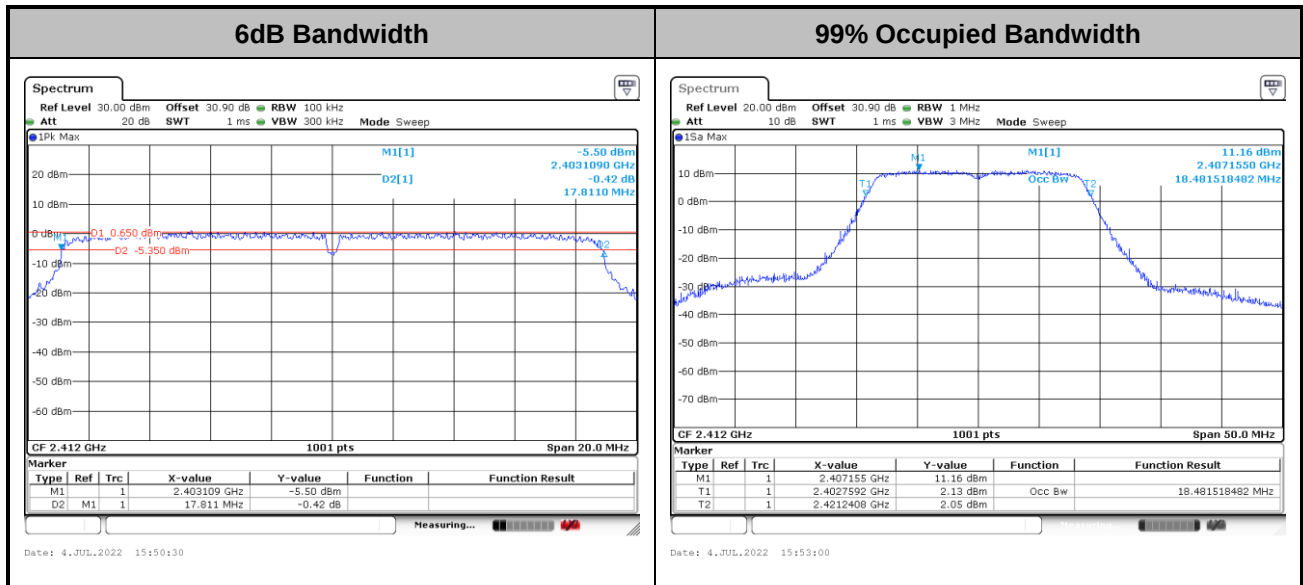
<802.11g>



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.

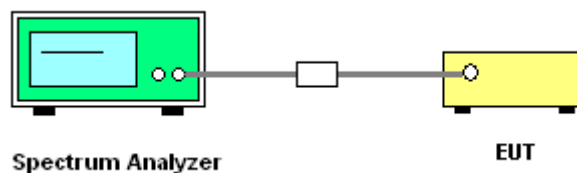
3.3.2 Measuring Instruments

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.

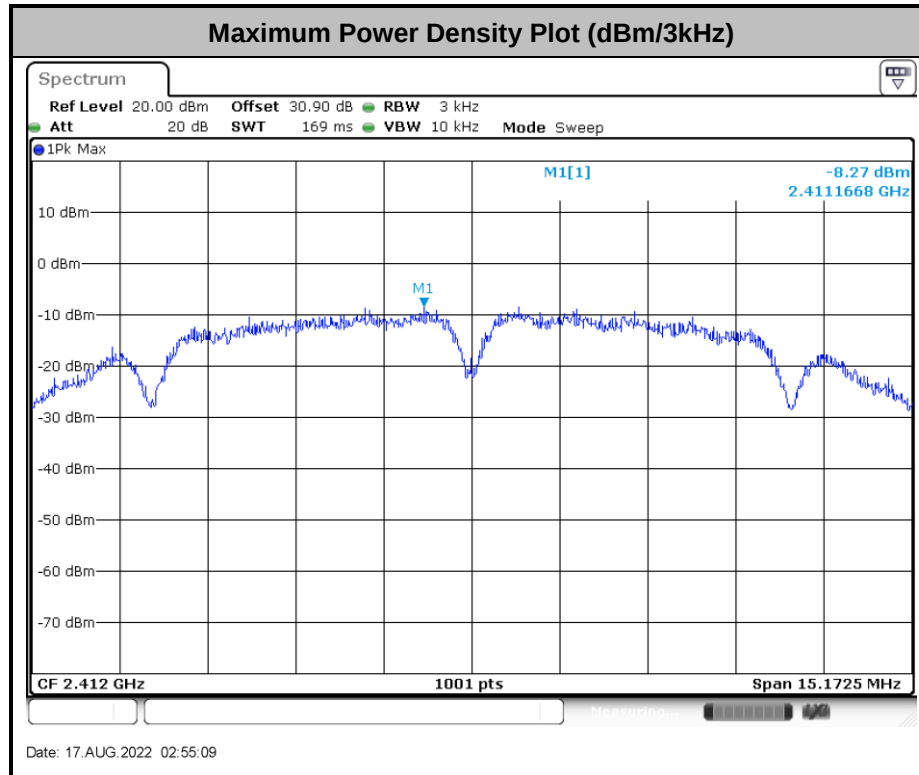
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

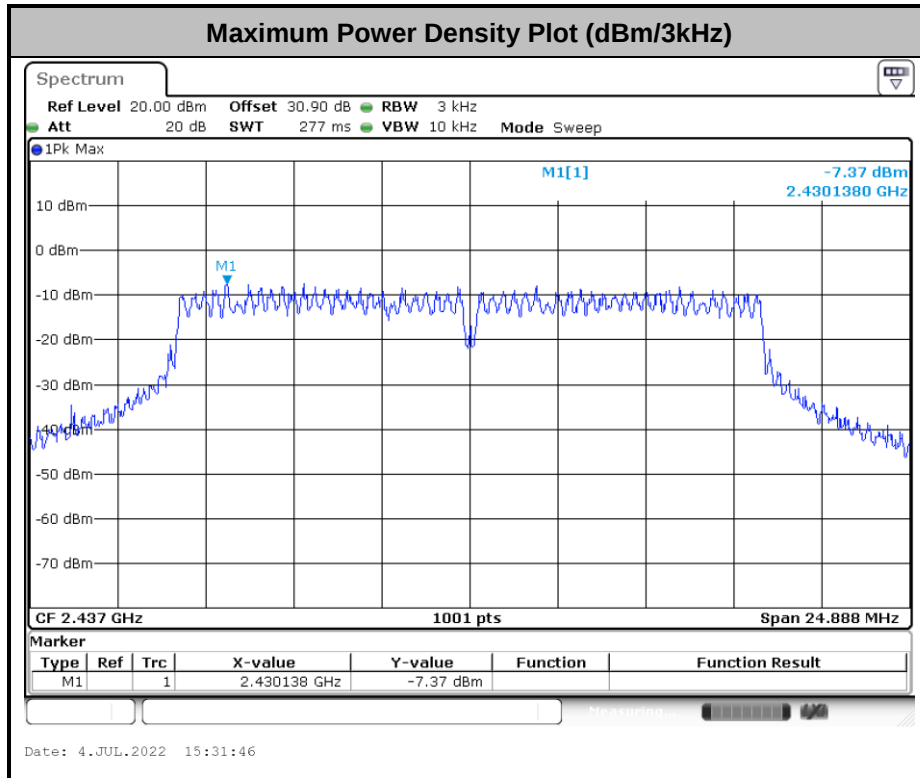
Please refer to Appendix A.

<802.11b>

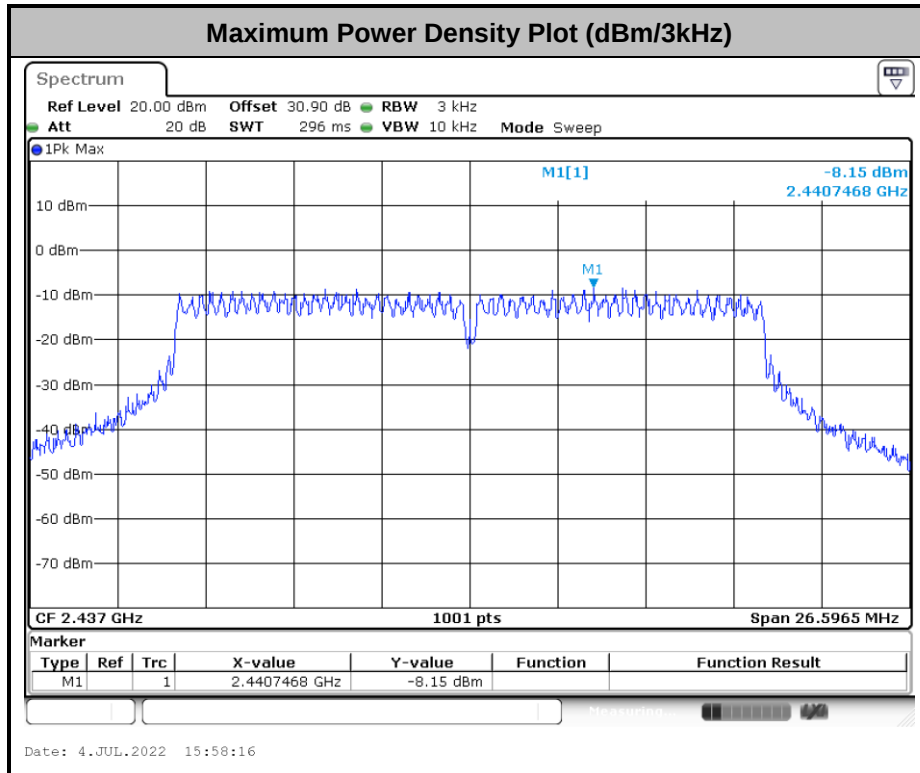




<802.11g>



<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.

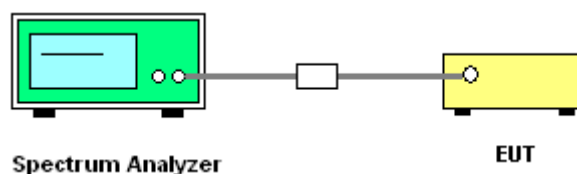
3.4.2 Measuring Instruments

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.

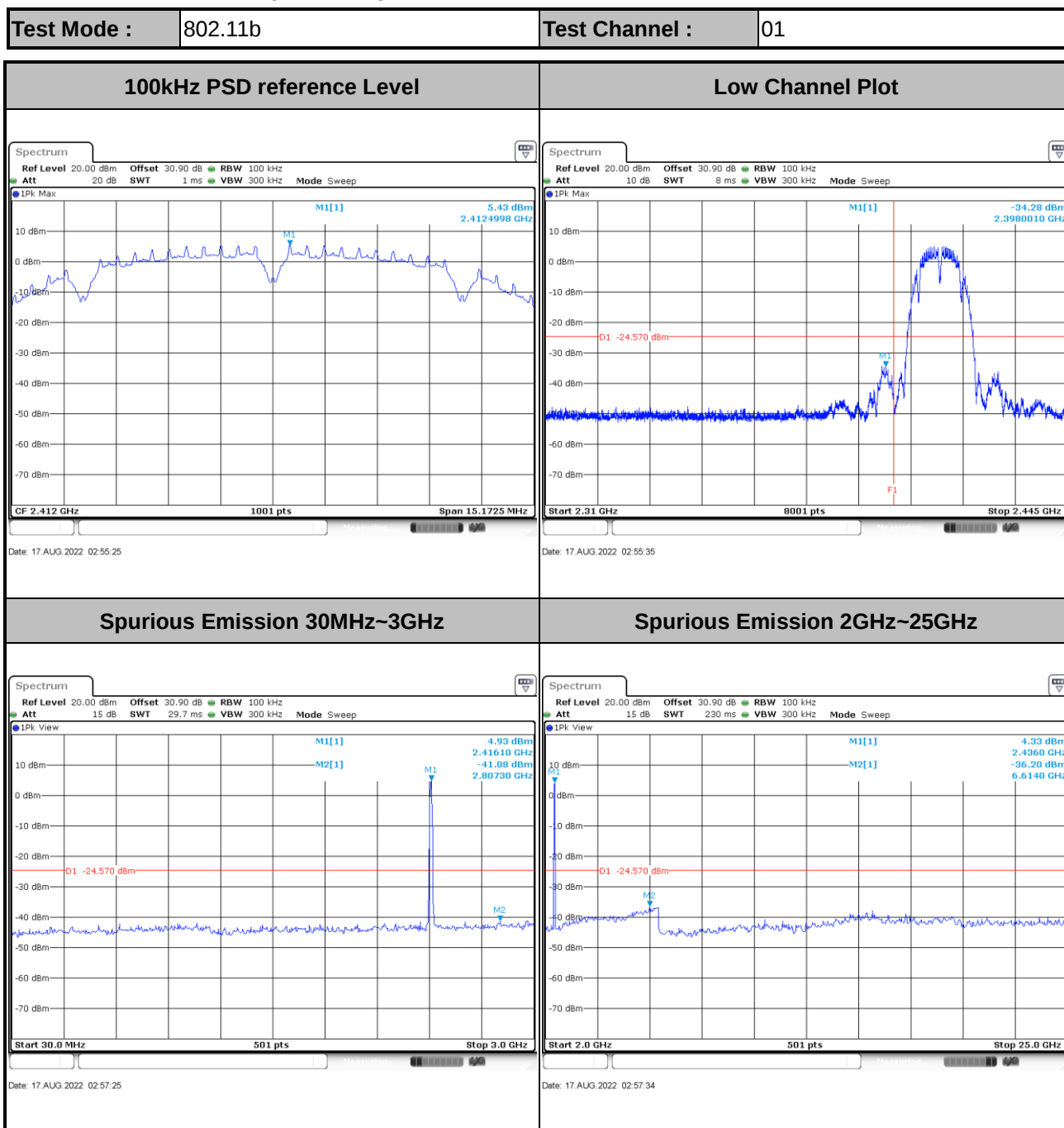
3.4.4 Test Setup





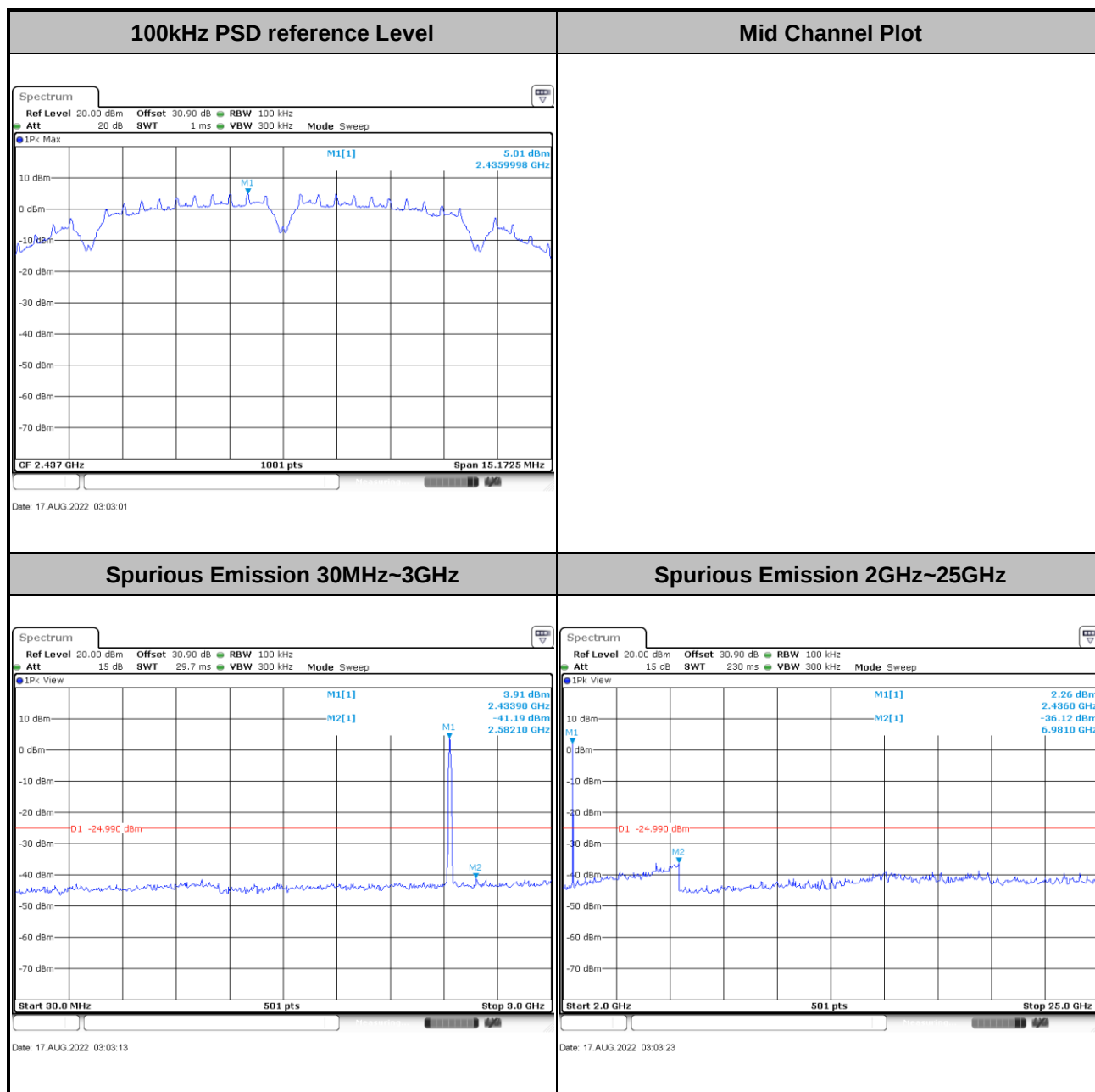
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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



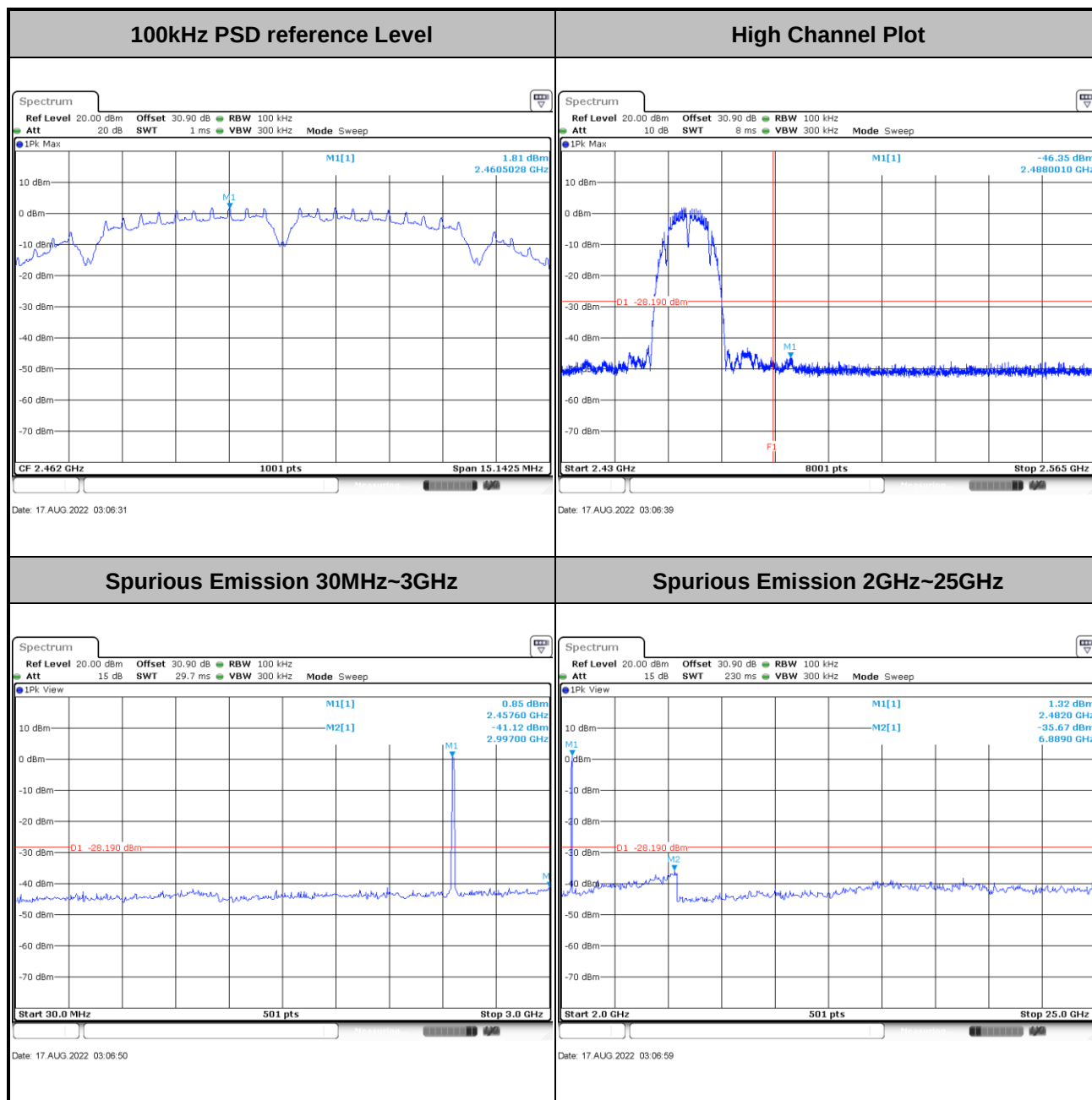


Test Mode :	802.11b	Test Channel :	06
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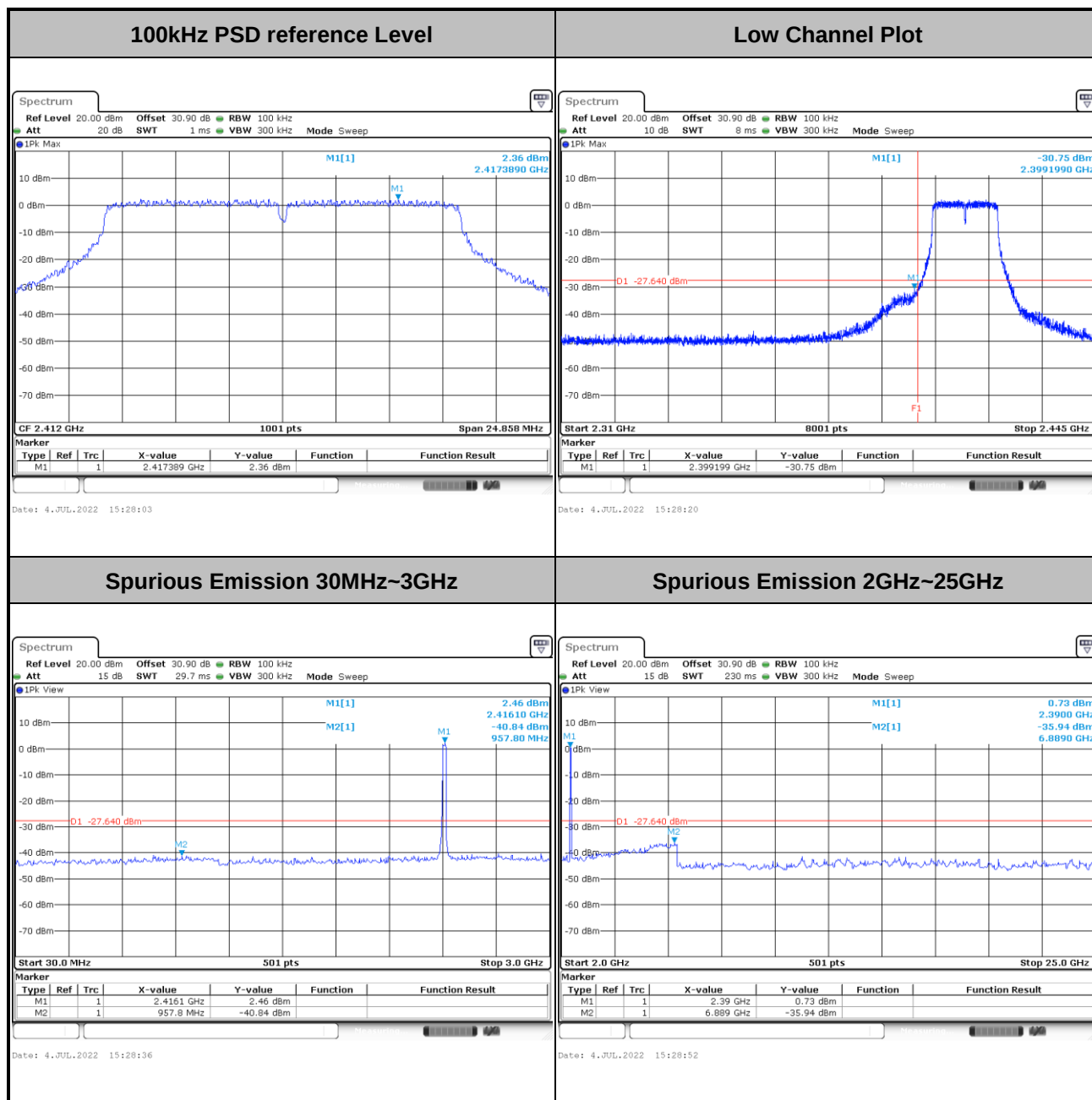


Test Mode :	802.11b	Test Channel :	11
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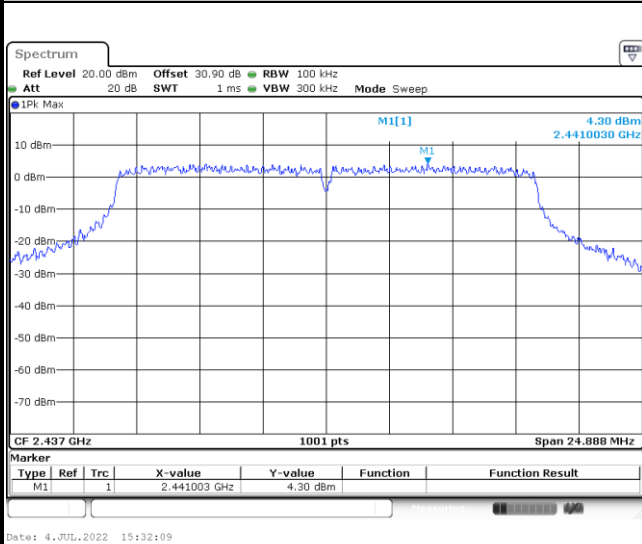
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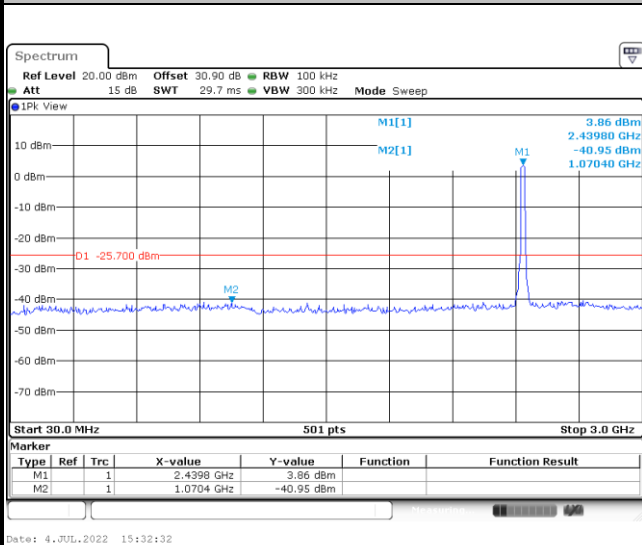
Test Mode :	802.11g	Test Channel :	06
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100kHz PSD reference Level

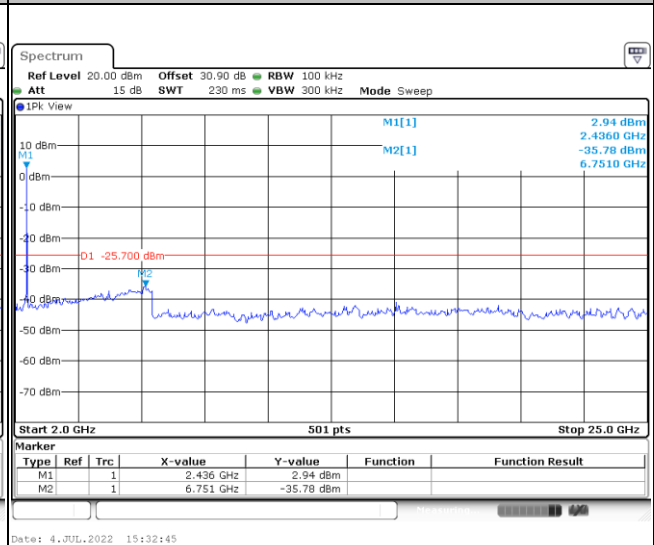


Mid Channel Plot

Spurious Emission 30MHz~3GHz

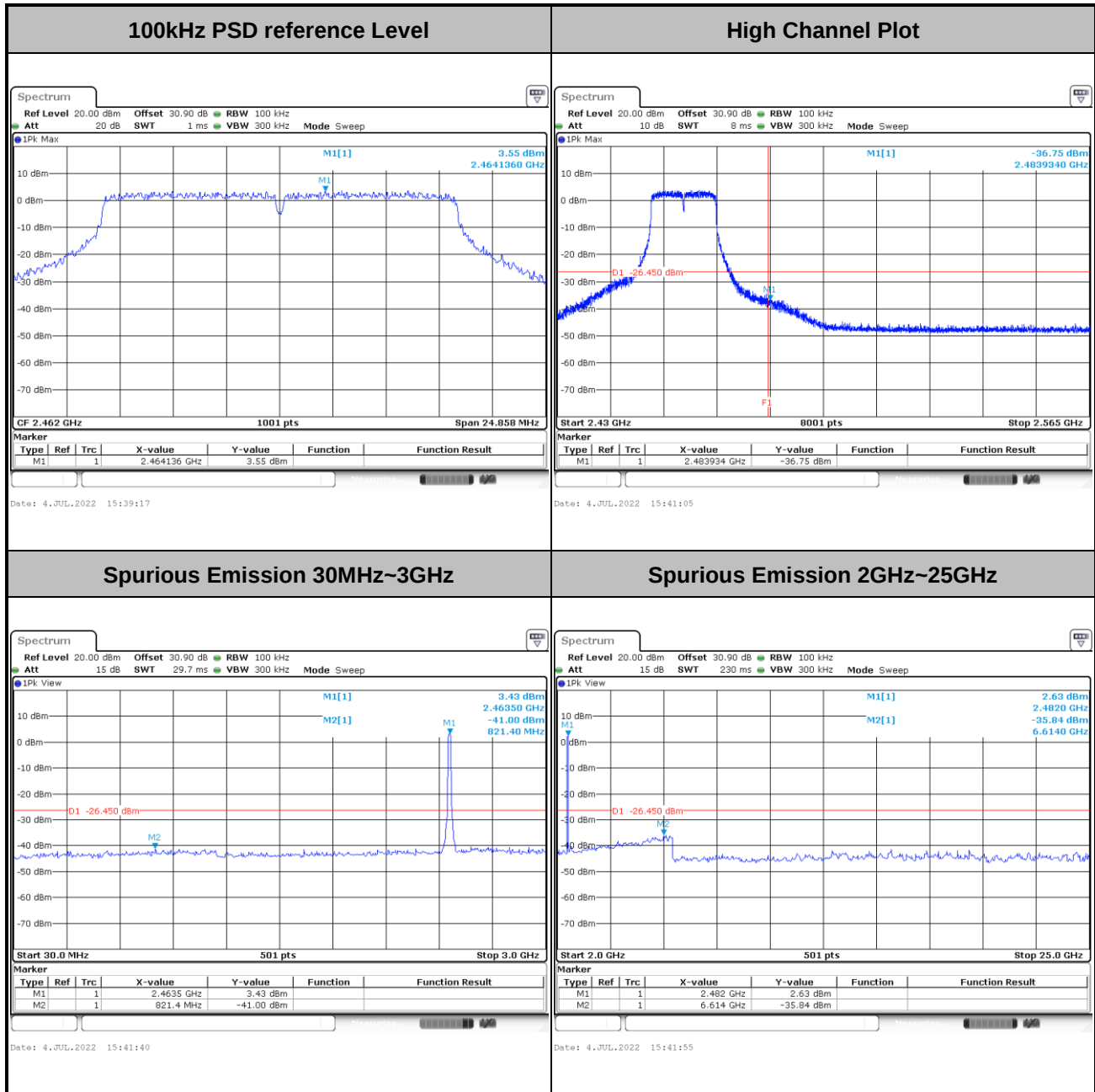


Spurious Emission 2GHz~25GHz



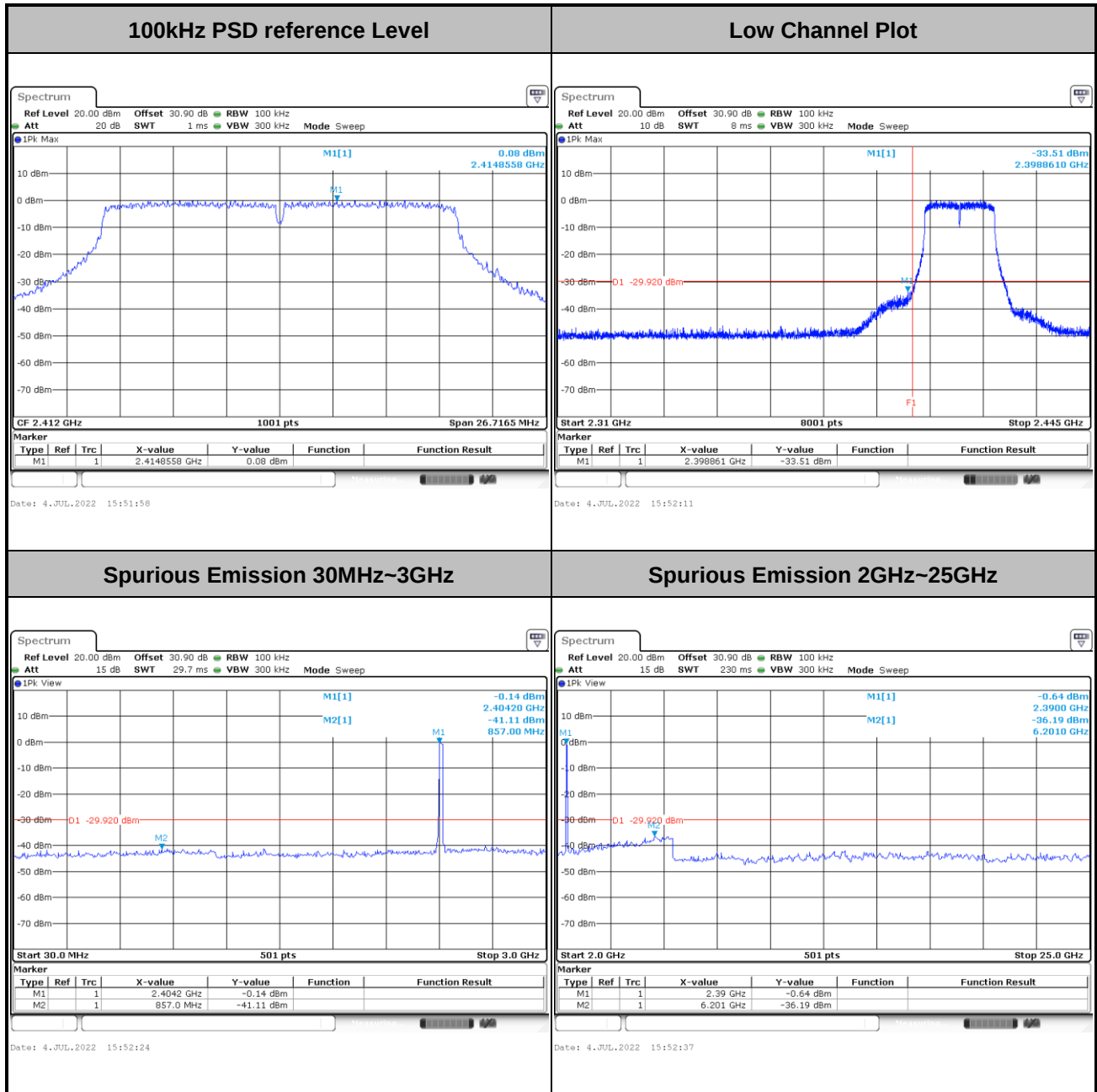


Test Mode :	802.11g	Test Channel :	11
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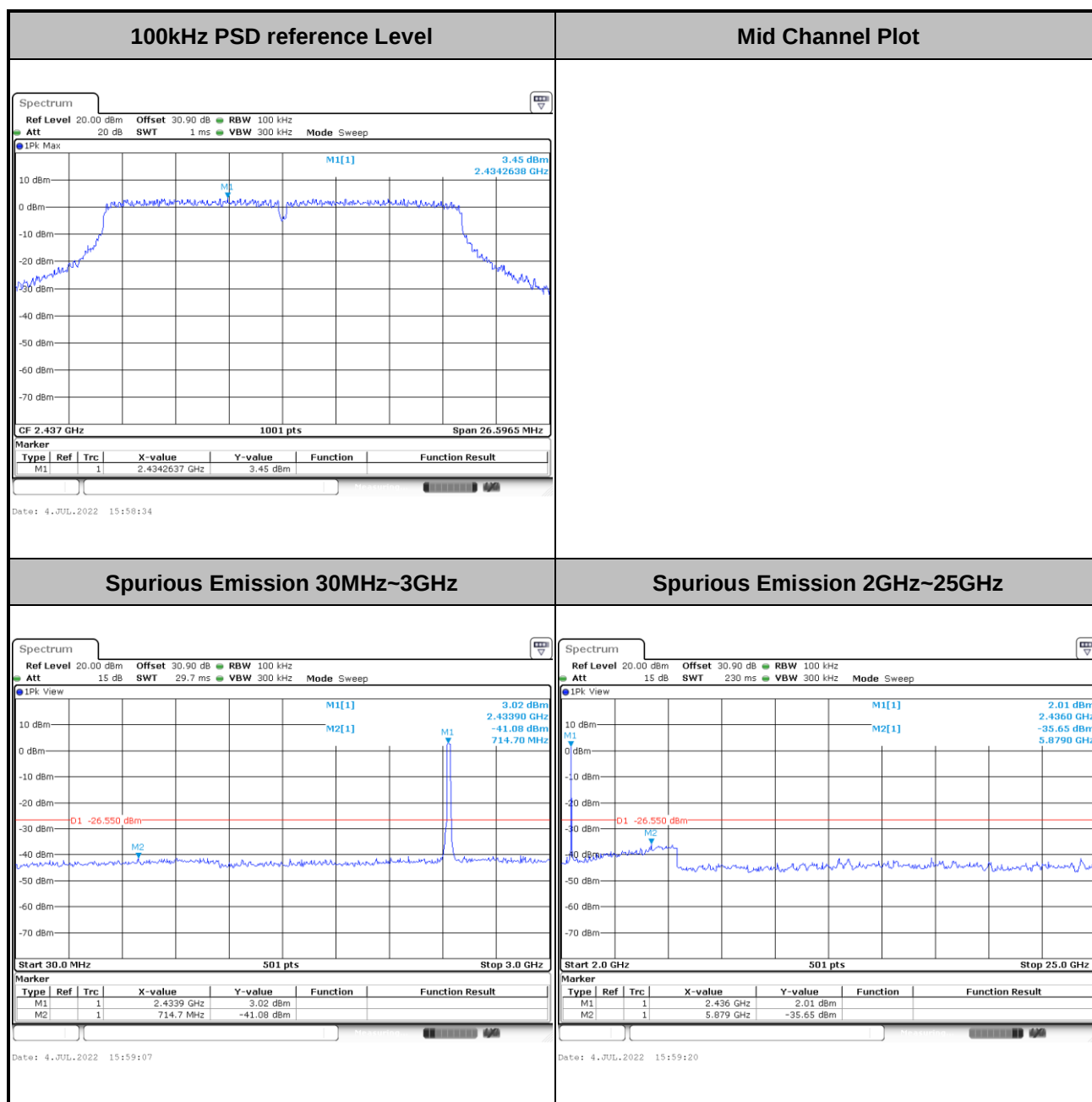


Test Mode :	802.11n HT20	Test Channel :	01
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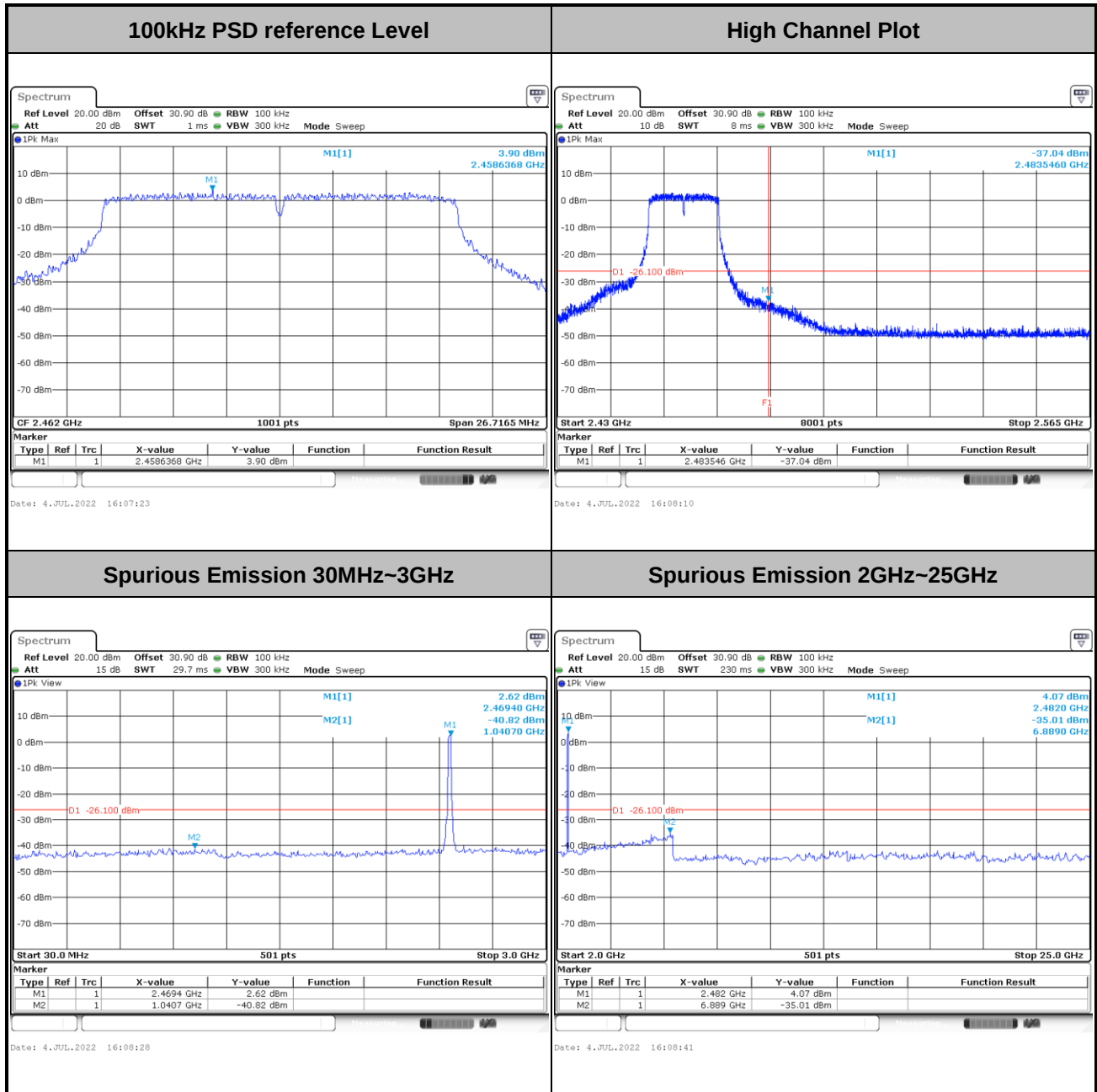


Test Mode :	802.11n HT20	Test Channel :	06
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Test Mode :	802.11n HT20	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

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 “-”.

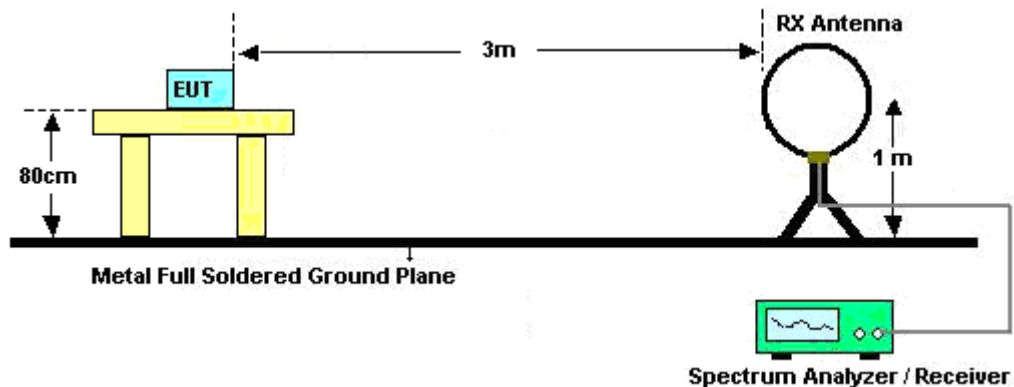
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with 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 $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

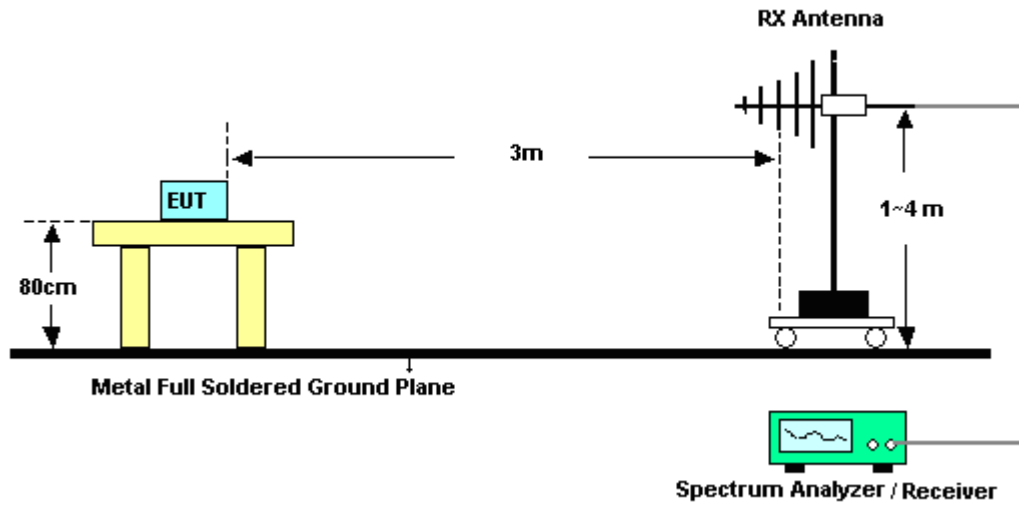
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

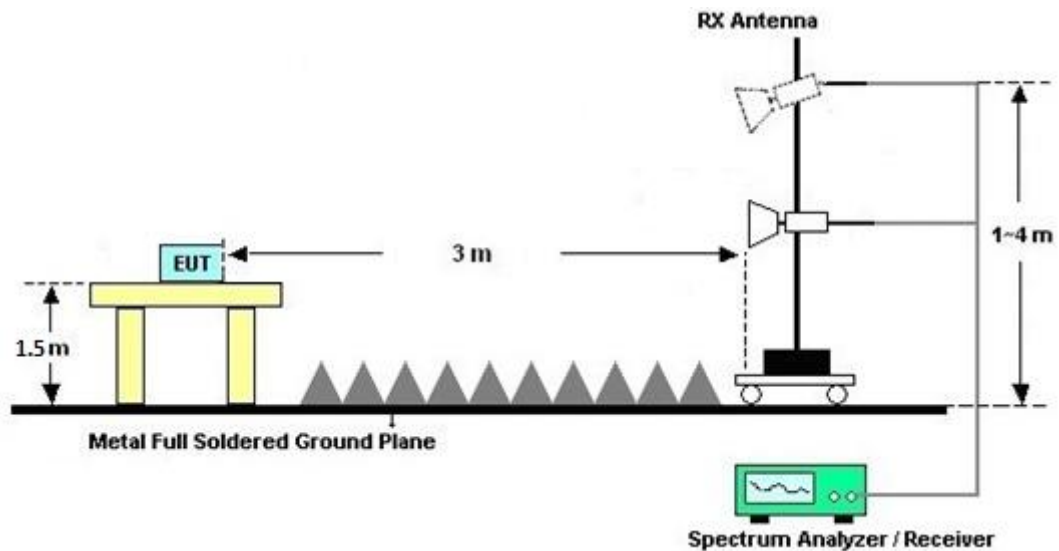
For radiated emissions below 30MHz



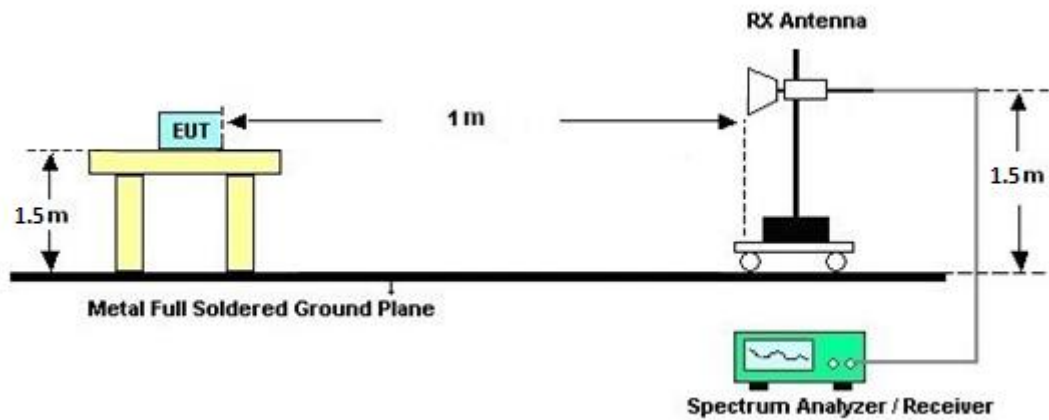
For radiated emissions from 30MHz to 1GHz



For radiated emissions test from 1GHz to 18GHz



For radiated emissions 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 (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.

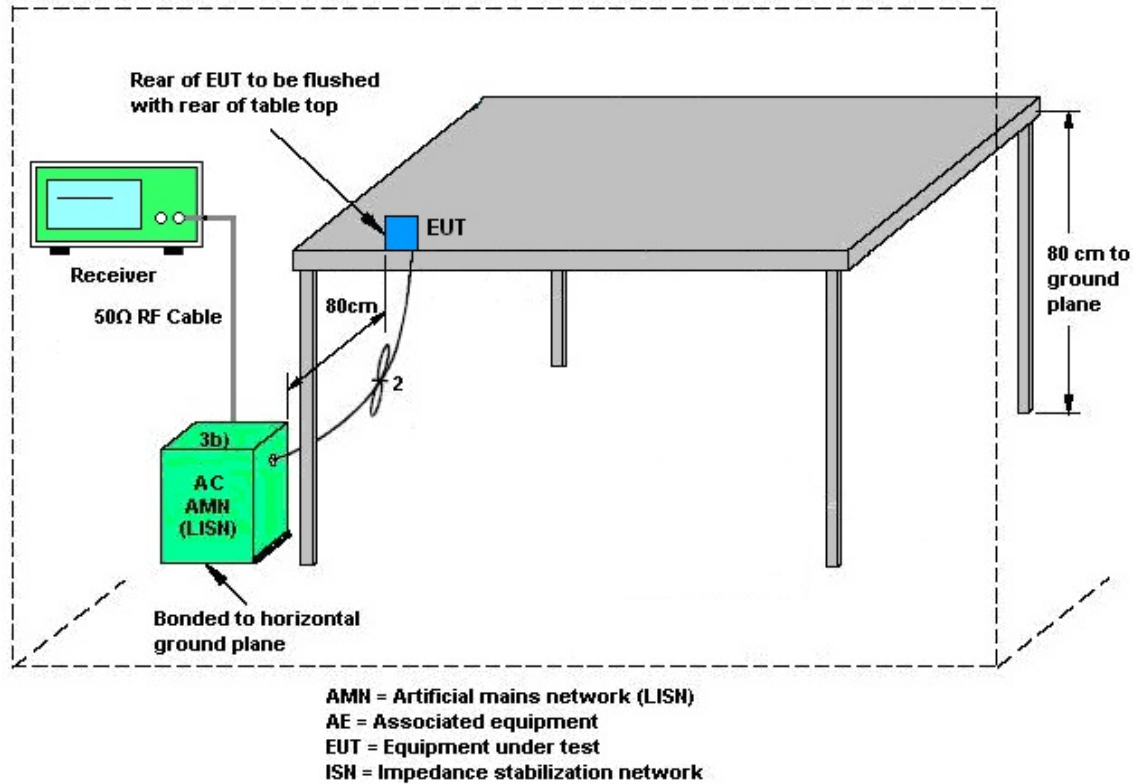
3.6.2 Measuring Instruments

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
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 09, 2021	Jun. 06, 2022~ Aug. 11, 2022	Sep. 08, 2022	Radiation (03CH15-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	41912 & 05	30MHz~1GHz	Feb. 06, 2022	Jun. 06, 2022~ Aug. 11, 2022	Feb. 05, 2023	Radiation (03CH15-HY)
Amplifier	SONOMA	310N	363440	9kHz~1GHz	Dec. 27, 2021	Jun. 06, 2022~ Aug. 11, 2022	Dec. 26, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02038	1GHz~18GHz	Aug. 04, 2021	Jun. 06, 2022~ Aug. 02, 2022	Aug. 03, 2022	Radiation (03CH15-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2022	Aug. 03, 2022~ Aug. 11, 2022	Jun. 22, 2023	Radiation (03CH15-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170251	18GHz~40GHz	Nov. 30, 2021	Jun. 06, 2022~ Aug. 11, 2022	Nov. 29, 2022	Radiation (03CH15-HY)
Preamplifier	Jet-Power	JPA0118-55-303	171000180005 5006	1GHz~18GHz	May 05, 2022	Jun. 06, 2022~ Aug. 11, 2022	May 04, 2023	Radiation (03CH15-HY)
Preamplifier	EM Electronics	EM01G18G	060803	1GHz-18GHz	Dec. 16, 2021	Jun. 06, 2022~ Aug. 11, 2022	Dec. 15, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060801	18-40GHz	Jun. 22, 2021	Jun. 06, 2022~ Jun. 20, 2022	Jun. 21, 2022	Radiation (03CH15-HY)
Preamplifier	EMEC	EM18G40G	060715	18-40GHz	Dec. 22, 2021	Jun. 21, 2022~ Aug. 11, 2022	Dec. 21, 2022	Radiation (03CH15-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20MHz~8.4GHz	Oct. 21, 2021	Jun. 06, 2022~ Aug. 11, 2022	Oct. 20, 2022	Radiation (03CH15-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Mar. 07, 2022	Jun. 06, 2022~ Aug. 11, 2022	Mar. 06, 2023	Radiation (03CH15-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 06, 2022~ Aug. 11, 2022	N/A	Radiation (03CH15-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 06, 2022~ Aug. 11, 2022	N/A	Radiation (03CH15-HY)
Software	Audix	E3 6.2009-8-24(k5)	RK-000451	N/A	N/A	Jun. 06, 2022~ Aug. 11, 2022	N/A	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104, 102E	MY9838/4PE,5 08405/2E,5821 85/4	30MHz~18G	May 12, 2021	Jun. 06, 2022~ Aug. 11, 2022	May 11, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804011/2,8040 12/2	30MHz-40GHz	Jan. 04, 2022	Jun. 06, 2022~ Aug. 11, 2022	Jan. 03, 2023	Radiation (03CH15-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4PE	9kHz~30MHz	Mar. 10, 2022	Jun. 06, 2022~ Aug. 11, 2022	Mar. 09, 2023	Radiation (03CH15-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Jun. 07, 2022~ Aug. 17, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054SNO 12 (NO:113)	10MHz~6GHz	Dec. 16, 2021	Jun. 07, 2022~ Aug. 17, 2022	Dec. 15, 2022	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Jun. 07, 2022~ Aug. 17, 2022	Aug. 29, 2022	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Jul. 06, 2022	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 06, 2022	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz~200MHz	Oct. 29, 2021	Jul. 06, 2022	Oct. 28, 2022	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 16, 2022	Jul. 06, 2022	Mar. 15, 2023	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 16, 2022	Jul. 06, 2022	Feb. 15, 2023	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI7	100724	9kHz~7GHz	Feb. 24, 2022	Jul. 06, 2022	Feb. 23, 2023	Conduction (CO07-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 dB
--	--------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.8 dB
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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 dB
--	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
--	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Mina Liu	Temperature:	21~25	°C
Test Date:	2022/06/07~2022/08/17	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	13.84	-	10.09	-	0.50	Pass
11b	1Mbps	1	6	2437	13.84	-	10.11	-	0.50	Pass
11b	1Mbps	1	11	2462	18.88	-	10.10	-	0.50	Pass
11g	6Mbps	1	1	2412	17.48	-	16.57	-	0.50	Pass
11g	6Mbps	1	6	2437	17.63	-	16.59	-	0.50	Pass
11g	6Mbps	1	11	2462	17.63	-	16.57	-	0.50	Pass
HT20	MCS0	1	1	2412	18.48	-	17.81	-	0.50	Pass
HT20	MCS0	1	6	2437	18.63	-	17.73	-	0.50	Pass
HT20	MCS0	1	11	2462	18.53	-	17.81	-	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	14.90	-		30.00	-	3.94	-	18.84	-	36.00	-	Pass
11b	1Mbps	1	6	2437	14.60	-		30.00	-	3.94	-	18.54	-	36.00	-	Pass
11b	1Mbps	1	11	2462	12.40	-		30.00	-	3.94	-	16.34	-	36.00	-	Pass
11g	6Mbps	1	1	2412	15.40	-		30.00	-	3.94	-	19.34	-	36.00	-	Pass
11g	6Mbps	1	6	2437	17.00	-		30.00	-	3.94	-	20.94	-	36.00	-	Pass
11g	6Mbps	1	11	2462	16.50	-		30.00	-	3.94	-	20.44	-	36.00	-	Pass
HT20	MCS0	1	1	2412	13.50	-		30.00	-	3.94	-	17.44	-	36.00	-	Pass
HT20	MCS0	1	6	2437	16.70	-		30.00	-	3.94	-	20.64	-	36.00	-	Pass
HT20	MCS0	1	11	2462	15.00	-		30.00	-	3.94	-	18.94	-	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	-8.27	-		3.94	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-8.63	-		3.94	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-10.36	-		3.94	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-9.01	-		3.94	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-7.37	-		3.94	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-7.79	-		3.94	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-11.19	-		3.94	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-8.15	-		3.94	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-9.72	-		3.94	-	8.00	-	Pass

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



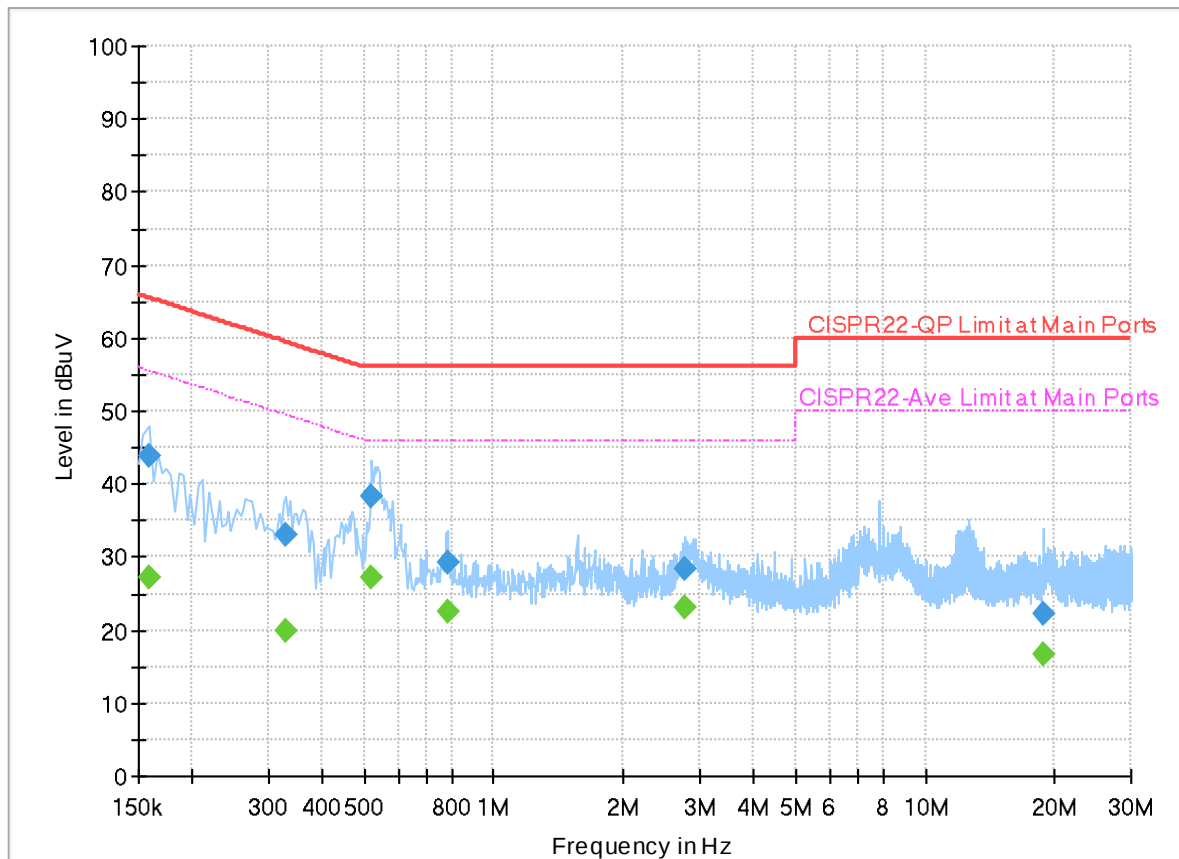
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Louis Chung	Temperature :	22.4~25.6℃
		Relative Humidity :	48.2~57.1%

EUT Information

Report NO : 242615
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



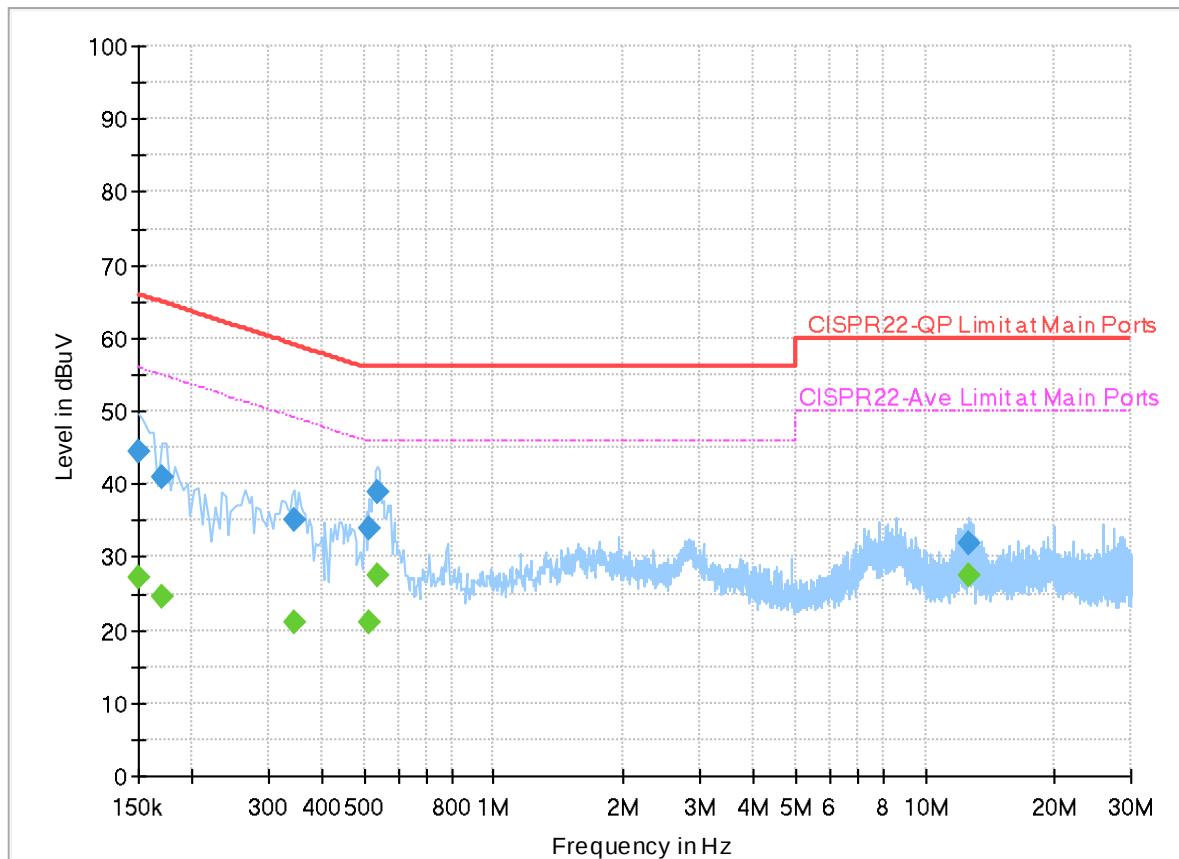
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.158000	---	27.24	55.57	28.33	L1	OFF	20.0
0.158000	43.78	---	65.57	21.79	L1	OFF	20.0
0.330000	---	19.90	49.45	29.55	L1	OFF	20.0
0.330000	32.90	---	59.45	26.55	L1	OFF	20.0
0.522000	---	27.13	46.00	18.87	L1	OFF	20.0
0.522000	38.39	---	56.00	17.61	L1	OFF	20.0
0.782000	---	22.38	46.00	23.62	L1	OFF	20.0
0.782000	29.11	---	56.00	26.89	L1	OFF	20.0
2.778000	---	23.24	46.00	22.76	L1	OFF	20.0
2.778000	28.35	---	56.00	27.65	L1	OFF	20.0
18.826000	---	16.71	50.00	33.29	L1	OFF	20.2
18.826000	22.14	---	60.00	37.86	L1	OFF	20.2

EUT Information

Report NO : 242615
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)
0.150000	---	27.25	56.00	28.75	N	OFF	20.0
0.150000	44.49	---	66.00	21.51	N	OFF	20.0
0.170000	---	24.66	54.96	30.30	N	OFF	20.0
0.170000	40.91	---	64.96	24.05	N	OFF	20.0
0.346000	---	21.01	49.06	28.05	N	OFF	20.0
0.346000	34.96	---	59.06	24.10	N	OFF	20.0
0.514000	---	21.10	46.00	24.90	N	OFF	20.0
0.514000	34.05	---	56.00	21.95	N	OFF	20.0
0.538000	---	27.36	46.00	18.64	N	OFF	20.0
0.538000	39.03	---	56.00	16.97	N	OFF	20.0
12.686000	---	27.60	50.00	22.40	N	OFF	20.2
12.686000	32.01	---	60.00	27.99	N	OFF	20.2



Appendix C. Radiated Spurious Emission

Test Engineer :	Leo Lee and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

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		2386.16	52.91	-21.09	74	46.45	27.29	16.03	36.86	358	351	P	H
		2386.16	45.53	-8.47	54	39.07	27.29	16.03	36.86	358	351	A	H
	*	2412	106.24	-	-	99.56	27.47	16.07	36.86	358	351	P	H
	*	2412	103.11	-	-	96.43	27.47	16.07	36.86	358	351	A	H
													H
		2324.896	50.87	-23.13	74	44.82	27	15.91	36.86	370	322	P	V
		2386.272	40.72	-13.28	54	34.26	27.29	16.03	36.86	370	322	A	V
	*	2412	97.19	-	-	90.51	27.47	16.07	36.86	370	322	P	V
	*	2412	94.05	-	-	87.37	27.47	16.07	36.86	370	322	A	V
													V
802.11b CH 06 2437MHz		2355.895	50.71	-23.29	74	44.55	27.05	15.97	36.86	348	350	P	H
		2387.679	39.85	-14.15	54	33.38	27.3	16.03	36.86	348	350	A	H
	*	2437	105.94	-	-	99.07	27.62	16.11	36.86	348	350	P	H
	*	2437	102.92	-	-	96.05	27.62	16.11	36.86	348	350	A	H
		2493.868	50.79	-23.21	74	43.56	27.88	16.2	36.85	348	350	P	H
		2484.67	40.58	-13.42	54	33.41	27.84	16.18	36.85	348	350	A	H
		2369.869	50.62	-23.38	74	44.32	27.16	16	36.86	400	319	P	V
		2385.35	39.5	-14.5	54	33.06	27.28	16.02	36.86	400	319	A	V
	*	2437	96.84	-	-	89.97	27.62	16.11	36.86	400	319	P	V
	*	2437	93.75	-	-	86.88	27.62	16.11	36.86	400	319	A	V
		2499.416	51.55	-22.45	74	44.3	27.9	16.2	36.85	400	319	P	V
		2496.715	40.23	-13.77	54	32.99	27.89	16.2	36.85	400	319	A	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 11 2462MHz	*	2462	106.51	-	-	99.61	27.55	16.15	36.8	333	348	P	H
	*	2462	103.48	-	-	96.58	27.55	16.15	36.8	333	348	A	H
		2486.9	56.59	-17.41	74	49.55	27.65	16.18	36.79	333	348	P	H
		2487.7	50.46	-3.54	54	43.41	27.65	16.19	36.79	333	348	A	H
													H
													H
	*	2462	103.39	-	-	96.49	27.55	16.15	36.8	383	238	P	V
	*	2462	100.26	-	-	93.36	27.55	16.15	36.8	383	238	A	V
		2483.7	53.95	-20.05	74	46.93	27.63	16.18	36.79	383	238	P	V
		2487.75	47.76	-6.24	54	40.71	27.65	16.19	36.79	383	238	A	V
													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	53.6	-20.4	74	70.3	32.44	9.41	58.55	264	327	P	H
		4824	50.27	-3.73	54	66.97	32.44	9.41	58.55	264	327	A	H
		10710	46.38	-27.62	74	55.28	39.09	12.87	60.86	-	-	P	H
		10710	37.59	-16.41	54	46.49	39.09	12.87	60.86	-	-	A	H
		14490	48.62	-25.38	74	57.03	40	15.07	63.48	-	-	P	H
		14490	39.83	-14.17	54	48.24	40	15.07	63.48	-	-	A	H
		17985	52.32	-21.68	74	51.22	41.34	16.95	57.19	-	-	P	H
		17985	43.53	-10.47	54	42.43	41.34	16.95	57.19	-	-	A	H
													H
													H
													H
													H
		4824	52.47	-21.53	74	69.17	32.44	9.41	58.55	375	271	P	V
		4824	48.72	-5.28	54	65.42	32.44	9.41	58.55	375	271	A	V
		10665	46.11	-27.89	74	55.03	39.06	12.85	60.83	-	-	P	V
		10665	37.32	-16.68	54	46.24	39.06	12.85	60.83	-	-	A	V
		14475	48.06	-25.94	74	56.46	40	15.06	63.46	-	-	P	V
		14475	39.27	-14.73	54	47.67	40	15.06	63.46	-	-	A	V
		17985	52.49	-21.51	74	51.39	41.34	16.95	57.19	-	-	P	V
		17985	43.7	-10.3	54	42.6	41.34	16.95	57.19	-	-	A	V
													V
													V
													V
													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	52.75	-21.25	74	69.43	32.5	9.4	58.58	301	297	P	H
		4874	50.66	-3.34	54	67.34	32.5	9.4	58.58	301	297	A	H
		7311	49.39	-24.61	74	60.06	36.56	10.85	58.08	-	-	P	H
		11295	49.79	-24.21	74	58.54	38.9	13.22	60.87	-	-	P	H
		11295	41	-13	54	49.75	38.9	13.22	60.87	-	-	A	H
		14490	50.66	-23.34	74	58.56	40.51	15.07	63.48	-	-	P	H
		14490	41.87	-12.13	54	49.77	40.51	15.07	63.48	-	-	A	H
		18000	56.35	-17.65	74	53.46	43.1	16.96	57.17	-	-	P	H
		18000	47.56	-6.44	54	44.67	43.1	16.96	57.17	-	-	A	H
													H
													H
													H
		4874	52.27	-21.73	74	68.95	32.5	9.4	58.58	264	327	P	V
		4874	49.18	-4.82	54	65.86	32.5	9.4	58.58	264	327	A	V
		7311	45.31	-28.69	74	55.98	36.56	10.85	58.08	-	-	P	V
		11445	49.53	-24.47	74	58.03	38.97	13.31	60.78	-	-	P	V
		11445	40.74	-13.26	54	49.24	38.97	13.31	60.78	-	-	A	V
		14475	50.54	-23.46	74	58.41	40.53	15.06	63.46	-	-	P	V
		14475	41.75	-12.25	54	49.62	40.53	15.06	63.46	-	-	A	V
		17985	56.61	-17.39	74	53.88	42.97	16.95	57.19	-	-	P	V
		17985	47.82	-6.18	54	45.09	42.97	16.95	57.19	-	-	A	V
													V
													V
													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 11 2462MHz		4924	51.43	-22.57	74	67.93	32.74	9.38	58.62	282	298	P	H	
		4924	48.7	-5.3	54	65.2	32.74	9.38	58.62	282	298	A	H	
		7386	44.14	-29.86	74	54.76	36.5	10.91	58.03	-	-	P	H	
		10665	45.23	-28.77	74	54.15	39.06	12.85	60.83	-	-	P	H	
		10665	36.44	-17.56	54	45.36	39.06	12.85	60.83	-	-	A	H	
		14490	47.21	-26.79	74	55.62	40	15.07	63.48	-	-	P	H	
		14490	38.42	-15.58	54	46.83	40	15.07	63.48	-	-	A	H	
		18000	53.06	-20.94	74	51.87	41.4	16.96	57.17	-	-	P	H	
		18000	44.03	-9.97	54	42.84	41.4	16.96	57.17	-	-	A	H	
													H	
													H	
													H	
		4924	51.95	-22.05	74	68.45	32.74	9.38	58.62	250	303	P	V	
		4924	50.26	-3.74	54	66.76	32.74	9.38	58.62	250	303	A	V	
		7386	42.46	-31.54	74	53.08	36.5	10.91	58.03	-	-	P	V	
		10620	45.71	-28.29	74	54.66	39.02	12.83	60.8	-	-	P	V	
		10620	36.92	-17.08	54	45.87	39.02	12.83	60.8	-	-	A	V	
		14490	49.03	-24.97	74	57.44	40	15.07	63.48	-	-	P	V	
		14490	40.11	-13.89	54	48.52	40	15.07	63.48	-	-	A	V	
		17910	51.56	-22.44	74	50.91	41.04	16.9	57.29	-	-	P	V	
		17910	42.77	-11.23	54	42.12	41.04	16.9	57.29	-	-	A	V	
														V
														V
													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.													
	4. The emission level close to 18GHz is checked that the average emission level is noise floor only.													



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		2389.485	60.52	-13.48	74	53.79	27.36	16.2	36.83	386	35	P	H
		2390	50.55	-3.45	54	43.82	27.36	16.2	36.83	386	35	A	H
	*	2412	109.94	-	-	103.1	27.42	16.24	36.82	386	35	P	H
	*	2412	101.74	-	-	94.9	27.42	16.24	36.82	386	35	A	H
													H
													H
		2389.59	60.97	-13.03	74	54.24	27.36	16.2	36.83	100	53	P	V
		2390	50.7	-3.3	54	43.97	27.36	16.2	36.83	100	53	A	V
	*	2412	109.02	-	-	102.18	27.42	16.24	36.82	100	53	P	V
	*	2412	101.15	-	-	94.31	27.42	16.24	36.82	100	53	A	V
													V
													V
802.11g CH 06 2437MHz		2346	51.21	-22.79	74	44.93	27.18	15.95	36.85	300	339	P	H
		2390	40.95	-13.05	54	34.39	27.36	16.03	36.83	300	339	A	H
	*	2440	109.01	-	-	102.23	27.48	16.11	36.81	300	339	P	H
	*	2437	101.52	-	-	94.75	27.47	16.11	36.81	300	339	A	H
		2484.88	53.13	-20.87	74	46.1	27.64	16.18	36.79	300	339	P	H
		2483.53	42.5	-11.5	54	35.48	27.63	16.18	36.79	300	339	A	H
		2389.52	52.65	-21.35	74	46.09	27.36	16.03	36.83	100	217	P	V
		2390	41.92	-12.08	54	35.36	27.36	16.03	36.83	100	217	A	V
	*	2437	111.13	-	-	104.36	27.47	16.11	36.81	100	217	P	V
	*	2437	103.17	-	-	96.4	27.47	16.11	36.81	100	217	A	V
		2487.76	52.87	-21.13	74	45.82	27.65	16.19	36.79	100	217	P	V
		2483.53	42.43	-11.57	54	35.41	27.63	16.18	36.79	100	217	A	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 11 2462MHz	*	2462	110.08	-	-	103.03	27.75	16.15	36.85	337	343	P	H
	*	2462	102.08	-	-	95.03	27.75	16.15	36.85	337	343	A	H
		2483.7	62.31	-11.69	74	55.15	27.83	16.18	36.85	337	343	P	H
		2483.5	50.89	-3.11	54	43.73	27.83	16.18	36.85	337	343	A	H
													H
													H
	*	2462	107.2	-	-	100.15	27.75	16.15	36.85	346	232	P	V
	*	2462	99.06	-	-	92.01	27.75	16.15	36.85	346	232	A	V
		2483.75	59.58	-14.42	74	52.42	27.83	16.18	36.85	346	232	P	V
		2483.5	47.26	-6.74	54	40.1	27.83	16.18	36.85	346	232	A	V
													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	51.08	-22.92	74	67.78	32.44	9.41	58.55	253	298	P	H
		4824	40.96	-13.04	54	57.66	32.44	9.41	58.55	253	298	A	H
		10605	45.57	-28.43	74	54.55	39.01	12.81	60.8	-	-	P	H
		10605	36.78	-17.22	54	45.76	39.01	12.81	60.8	-	-	A	H
		14490	48	-26	74	56.41	40	15.07	63.48	-	-	P	H
		14490	39.21	-14.79	54	47.62	40	15.07	63.48	-	-	A	H
		17910	51.57	-22.43	74	50.92	41.04	16.9	57.29	-	-	P	H
		17910	42.78	-11.22	54	42.13	41.04	16.9	57.29	-	-	A	H
													H
													H
													H
													H
		4824	48.44	-25.56	74	65.14	32.44	9.41	58.55	400	276	P	V
		4824	38.57	-15.43	54	55.27	32.44	9.41	58.55	400	276	A	V
		10830	45.81	-28.19	74	54.8	39	12.94	60.93	-	-	P	V
		10830	37.02	-16.98	54	46.01	39	12.94	60.93	-	-	A	V
		14490	48.1	-25.9	74	56.51	40	15.07	63.48	-	-	P	V
		14490	39.31	-14.69	54	47.72	40	15.07	63.48	-	-	A	V
		17895	52.26	-21.74	74	51.72	40.96	16.89	57.31	-	-	P	V
		17895	43.47	-10.53	54	42.93	40.96	16.89	57.31	-	-	A	V
													V
													V
													V
													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	55.14	-18.86	74	71.72	32.6	9.4	58.58	251	300	P	H
		4874	45.17	-8.83	54	61.75	32.6	9.4	58.58	251	300	A	H
		7311	55.82	-18.18	74	66.39	36.66	10.85	58.08	100	350	P	H
		7311	44.26	-9.74	54	54.83	36.66	10.85	58.08	100	350	A	H
		10785	45.18	-28.82	74	54.16	39.01	12.92	60.91	-	-	P	H
		10785	36.39	-17.61	54	45.37	39.01	12.92	60.91	-	-	A	H
		14490	48.81	-25.19	74	57.22	40	15.07	63.48	-	-	P	H
		14490	40.02	-13.98	54	48.43	40	15.07	63.48	-	-	A	H
		17910	51.84	-22.16	74	51.19	41.04	16.9	57.29	-	-	P	H
		17910	43.05	-10.95	54	42.4	41.04	16.9	57.29	-	-	A	H
													H
													H
		4874	52.91	-21.09	74	69.49	32.6	9.4	58.58	271	304	P	V
		4874	42.53	-11.47	54	59.11	32.6	9.4	58.58	271	304	A	V
		7311	47.9	-26.1	74	58.47	36.66	10.85	58.08	100	146	P	V
		7311	37.65	-16.35	54	48.22	36.66	10.85	58.08	100	146	A	V
		10725	45.48	-28.52	74	54.39	39.07	12.89	60.87	-	-	P	V
		10725	36.69	-17.31	54	45.6	39.07	12.89	60.87	-	-	A	V
		14490	47.64	-26.36	74	56.05	40	15.07	63.48	-	-	P	V
		14490	38.85	-15.15	54	47.26	40	15.07	63.48	-	-	A	V
		17805	52.41	-21.59	74	52.87	40.14	16.83	57.43	-	-	P	V
		17805	43.62	-10.38	54	44.08	40.14	16.83	57.43	-	-	A	V
													V
													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 11 2462MHz		4924	57.59	-16.41	74	74.09	32.74	9.38	58.62	228	298	P	H
		4924	45.37	-8.63	54	61.87	32.74	9.38	58.62	228	298	A	H
		7386	52.18	-21.82	74	62.8	36.5	10.91	58.03	100	351	P	H
		7386	42.07	-11.93	54	52.69	36.5	10.91	58.03	100	351	A	H
		10770	46.39	-27.61	74	55.35	39.03	12.91	60.9	-	-	P	H
		10770	37.6	-16.4	54	46.56	39.03	12.91	60.9	-	-	A	H
		14490	48.21	-25.79	74	56.62	40	15.07	63.48	-	-	P	H
		14490	39.42	-14.58	54	47.83	40	15.07	63.48	-	-	A	H
		17850	51.76	-22.24	74	51.71	40.55	16.87	57.37	-	-	P	H
		17850	42.97	-11.03	54	42.92	40.55	16.87	57.37	-	-	A	H
													H
													H
		4924	54.6	-19.4	74	71.1	32.74	9.38	58.62	248	304	P	V
		4924	45.19	-8.81	54	61.69	32.74	9.38	58.62	248	304	A	V
		7386	47.73	-26.27	74	58.35	36.5	10.91	58.03	340	270	P	V
		7386	38.51	-15.49	54	49.13	36.5	10.91	58.03	340	270	A	V
		10665	45.55	-28.45	74	54.47	39.06	12.85	60.83	-	-	P	V
		10665	36.76	-17.24	54	45.68	39.06	12.85	60.83	-	-	A	V
		14490	47.5	-26.5	74	55.91	40	15.07	63.48	-	-	P	V
		14490	38.71	-15.29	54	47.12	40	15.07	63.48	-	-	A	V
		18000	51.7	-22.3	74	50.51	41.4	16.96	57.17	-	-	P	V
		18000	43.12	-10.88	54	41.93	41.4	16.96	57.17	-	-	A	V
													V
													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. 4. The emission level close to 18GHz is checked that the average emission level is noise floor only.												



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		2389.17	58.51	-15.49	74	51.78	27.36	16.2	36.83	347	28	P	H
		2390	48.73	-5.27	54	42	27.36	16.2	36.83	347	28	A	H
	*	2412	106.77	-	-	99.93	27.42	16.24	36.82	347	28	P	H
	*	2412	99.23	-	-	92.39	27.42	16.24	36.82	347	28	A	H
													H
													H
		2390	59.82	-14.18	74	53.09	27.36	16.2	36.83	100	50	P	V
		2390	50.19	-3.81	54	43.46	27.36	16.2	36.83	100	50	A	V
	*	2412	109.24	-	-	102.4	27.42	16.24	36.82	100	50	P	V
	*	2412	101.32	-	-	94.48	27.42	16.24	36.82	100	50	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.36	51.78	-22.22	74	45.22	27.36	16.03	36.83	307	338	P	H
		2390	41.67	-12.33	54	35.11	27.36	16.03	36.83	307	338	A	H
	*	2437	109.71	-	-	102.94	27.47	16.11	36.81	307	338	P	H
	*	2437	101.79	-	-	95.02	27.47	16.11	36.81	307	338	A	H
		2489.47	52.27	-21.73	74	45.2	27.66	16.19	36.78	307	338	P	H
		2483.71	42.32	-11.68	54	35.3	27.63	16.18	36.79	307	338	A	H
		2388.4	51.82	-22.18	74	45.27	27.35	16.03	36.83	118	220	P	V
		2390	41.76	-12.24	54	35.2	27.36	16.03	36.83	118	220	A	V
	*	2437	110.93	-	-	104.16	27.47	16.11	36.81	118	220	P	V
	*	2437	102.91	-	-	96.14	27.47	16.11	36.81	118	220	A	V
		2485.06	54.88	-19.12	74	47.85	27.64	16.18	36.79	118	220	P	V
		2483.89	42.84	-11.16	54	35.81	27.64	16.18	36.79	118	220	A	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)
802.11n HT20 CH 11 2462MHz	*	2462	110.08	-	-	103.01	27.55	16.32	36.8	111	50	P	V
	*	2462	102.18	-	-	95.11	27.55	16.32	36.8	111	50	A	V
		2483.72	61.35	-12.65	74	54.15	27.63	16.36	36.79	111	50	P	V
		2483.52	50.91	-3.09	54	43.71	27.63	16.36	36.79	111	50	A	V
													H
													H
	*	2462	104.34	-	-	97.27	27.55	16.32	36.8	400	143	P	H
	*	2462	96.82	-	-	89.75	27.55	16.32	36.8	400	143	A	H
		2484.16	58.81	-15.19	74	51.6	27.64	16.36	36.79	400	143	P	H
		2483.52	48.6	-5.4	54	41.4	27.63	16.36	36.79	400	143	A	H
													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	48.79	-25.21	74	65.49	32.44	9.41	58.55	245	299	P	H
		4824	38.13	-15.87	54	54.83	32.44	9.41	58.55	245	299	A	H
		10815	45.53	-28.47	74	54.53	39	12.93	60.93	-	-	P	H
		10815	36.74	-17.26	54	45.74	39	12.93	60.93	-	-	A	H
		14490	48.94	-25.06	74	57.35	40	15.07	63.48	-	-	P	H
		14490	40.15	-13.85	54	48.56	40	15.07	63.48	-	-	A	H
		17925	51.48	-22.52	74	50.74	41.1	16.91	57.27	-	-	P	H
		17925	42.69	-11.31	54	41.95	41.1	16.91	57.27	-	-	A	H
													H
													H
													H
													H
		4824	46.6	-27.4	74	63.3	32.44	9.41	58.55	275	309	P	V
		4824	37.08	-36.92	74	53.78	32.44	9.41	58.55	275	309	P	V
		10620	46.41	-27.59	74	55.36	39.02	12.83	60.8	-	-	P	V
		10620	37.62	-16.38	54	46.57	39.02	12.83	60.8	-	-	A	V
		14490	48.58	-25.42	74	56.99	40	15.07	63.48	-	-	P	V
		14490	39.79	-14.21	54	48.2	40	15.07	63.48	-	-	A	V
		17925	52.42	-21.58	74	51.68	41.1	16.91	57.27	-	-	P	V
		17925	43.63	-10.37	54	42.89	41.1	16.91	57.27	-	-	A	V
													V
													V
													V
													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)
802.11n HT20 CH 06 2437MHz		4874	55.83	-18.17	74	72.41	32.6	9.4	58.58	255	299	P	H
		4874	44.8	-9.2	54	61.38	32.6	9.4	58.58	255	299	A	H
		7311	53.96	-20.04	74	64.53	36.66	10.85	58.08	100	349	P	H
		7311	43.59	-10.41	54	54.16	36.66	10.85	58.08	100	349	A	H
		10785	45.26	-28.74	74	54.24	39.01	12.92	60.91	-	-	P	H
		10785	36.47	-17.53	54	45.45	39.01	12.92	60.91	-	-	A	H
		14475	47.57	-26.43	74	55.97	40	15.06	63.46	-	-	P	H
		14475	38.78	-15.22	54	47.18	40	15.06	63.46	-	-	A	H
		17925	51.81	-22.19	74	51.07	41.1	16.91	57.27	-	-	P	H
		17925	43.02	-10.98	54	42.28	41.1	16.91	57.27	-	-	A	H
													H
													H
		4874	51.52	-22.48	74	68.1	32.6	9.4	58.58	251	306	P	V
		4874	42.42	-11.58	54	59	32.6	9.4	58.58	251	306	A	V
		7311	48.34	-25.66	74	58.91	36.66	10.85	58.08	100	141	P	V
		7311	37.69	-16.31	54	48.26	36.66	10.85	58.08	100	141	A	V
		10605	45.65	-28.35	74	54.63	39.01	12.81	60.8	-	-	P	V
		10605	36.86	-17.14	54	45.84	39.01	12.81	60.8	-	-	A	V
		14475	48.41	-25.59	74	56.81	40	15.06	63.46	-	-	P	V
		14475	39.62	-14.38	54	48.02	40	15.06	63.46	-	-	A	V
		17910	51.77	-22.23	74	51.12	41.04	16.9	57.29	-	-	P	V
		17910	42.98	-11.02	54	42.33	41.04	16.9	57.29	-	-	A	V
													V
													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)
802.11n HT20 CH 11 2462MHz		4924	54.48	-19.52	74	70.98	32.74	9.38	58.62	255	297	P	H
		4924	43.88	-10.12	54	60.38	32.74	9.38	58.62	255	297	A	H
		7386	51.22	-22.78	74	61.84	36.5	10.91	58.03	100	349	P	H
		7386	39.53	-14.47	54	50.15	36.5	10.91	58.03	100	349	A	H
		10800	46.27	-27.73	74	55.26	39	12.93	60.92	-	-	P	H
		10800	37.48	-16.52	54	46.47	39	12.93	60.92	-	-	A	H
		14475	47.56	-26.44	74	55.96	40	15.06	63.46	-	-	P	H
		14475	38.77	-15.23	54	47.17	40	15.06	63.46	-	-	A	H
		18000	51.57	-22.43	74	50.38	41.4	16.96	57.17	-	-	P	H
		18000	42.78	-11.22	54	41.59	41.4	16.96	57.17	-	-	A	H
													H
													H
		4924	54.07	-19.93	74	70.57	32.74	9.38	58.62	251	306	P	V
		4924	43.1	-10.9	54	59.6	32.74	9.38	58.62	251	306	A	V
		7386	44.05	-29.95	74	54.67	36.5	10.91	58.03	-	-	P	V
		10605	46.05	-27.95	74	55.03	39.01	12.81	60.8	-	-	P	V
		10605	37.26	-16.74	54	46.24	39.01	12.81	60.8	-	-	A	V
		14475	48.63	-25.37	74	57.03	40	15.06	63.46	-	-	P	V
		14475	39.84	-14.16	54	48.24	40	15.06	63.46	-	-	A	V
		18000	53.18	-20.82	74	51.99	41.4	16.96	57.17	-	-	P	V
		18000	44.39	-9.61	54	43.2	41.4	16.96	57.17	-	-	A	V
													V
													V
													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.												
	4. The emission level close to 18GHz is checked that the average emission level is 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		22968	42.88	-31.12	74	61.45	38.85	-3.01	54.41	-	-	P	H
													H
													H
													H
													H
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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	Peak or Average
H/V	Horizontal or Vertical

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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					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. Margin(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission Plots

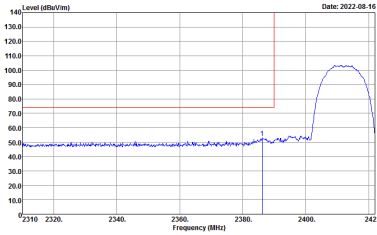
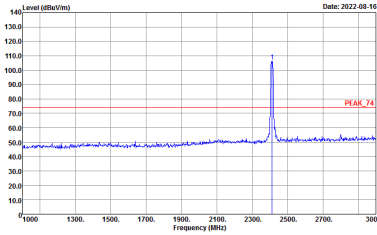
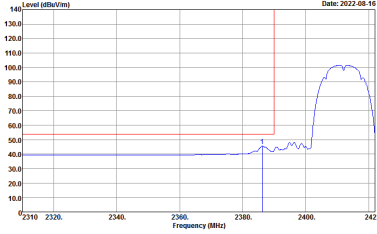
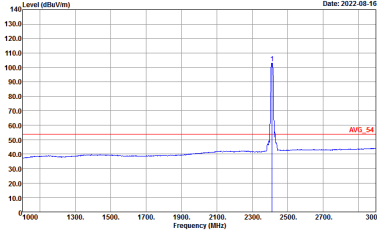
Test Engineer :	Leo Lee and Bigshow Wang	Temperature :	22.1~23.1°C
		Relative Humidity :	55~60%

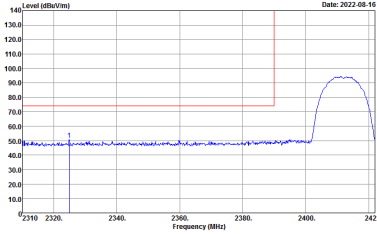
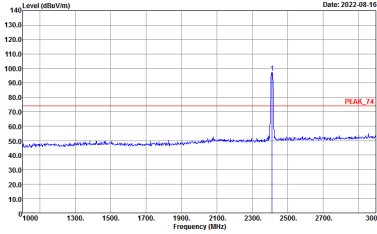
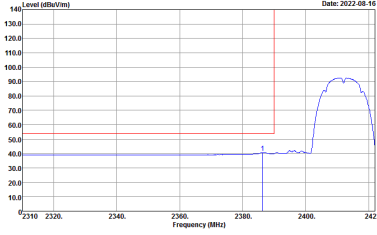
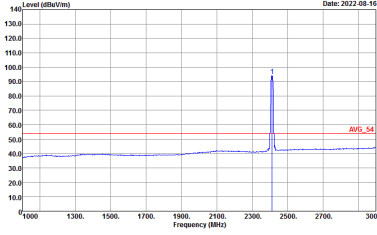
Note symbol

-L	Low channel location
-R	High channel location

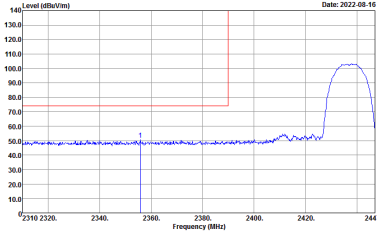
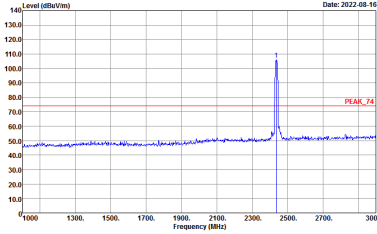
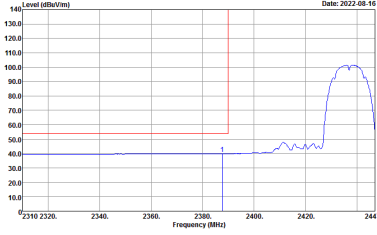
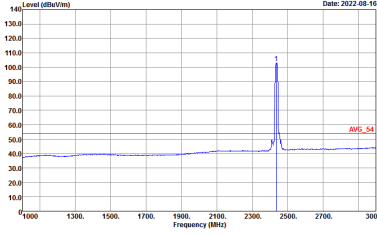


2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

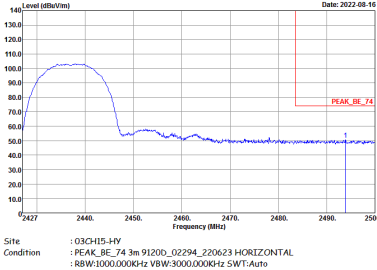
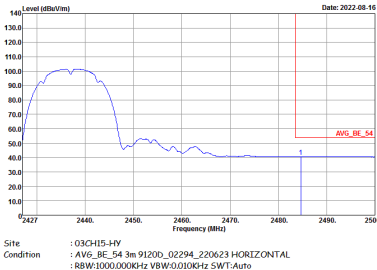
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CHI5-HY Condition : PEAK_BE_74 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI5-HY Condition : PEAK_74 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CHI5-HY Condition : AVG_BE_54 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CHI5-HY Condition : AVG_54 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

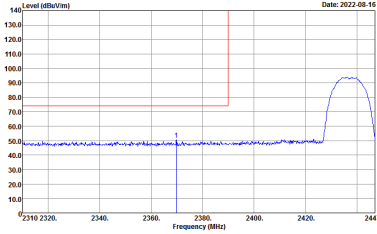
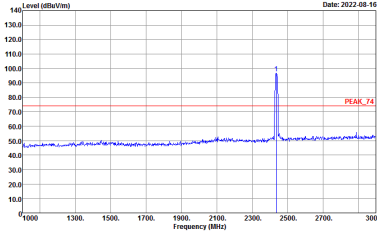
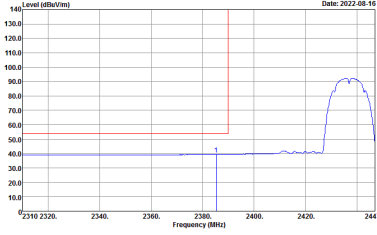
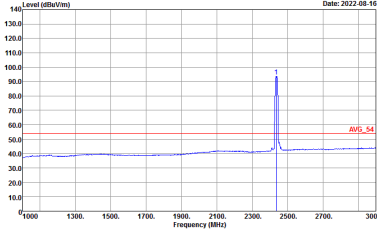


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

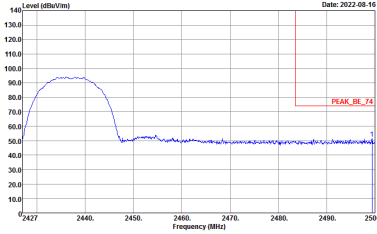
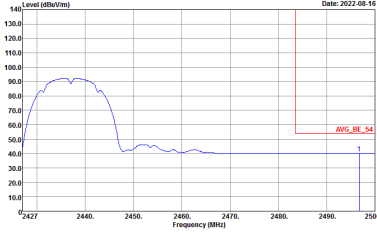


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

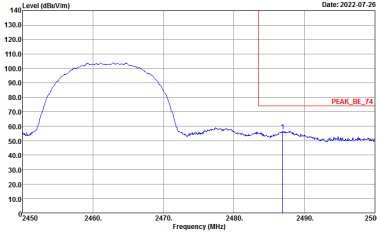
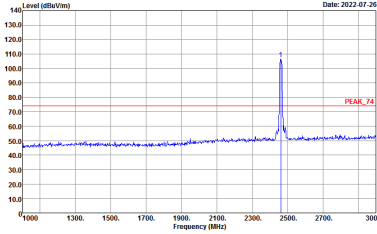
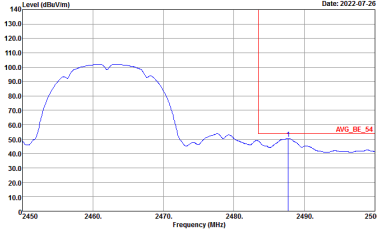
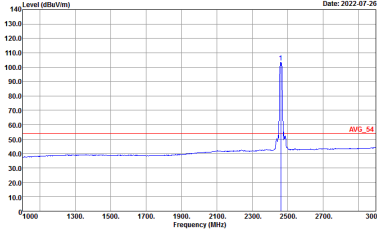


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

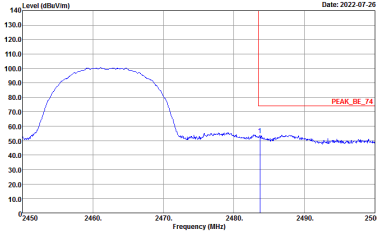
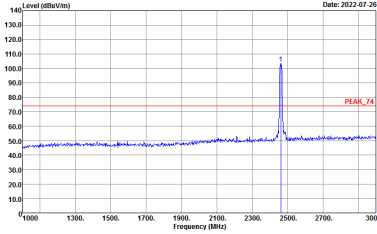
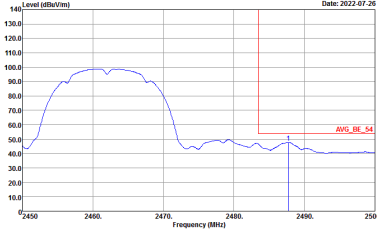
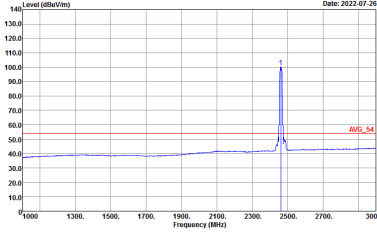


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank



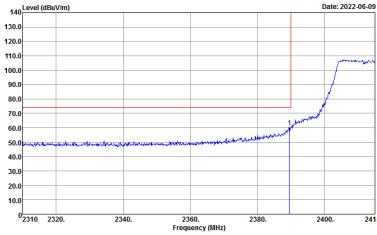
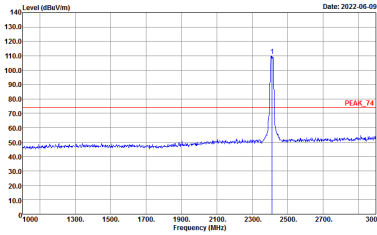
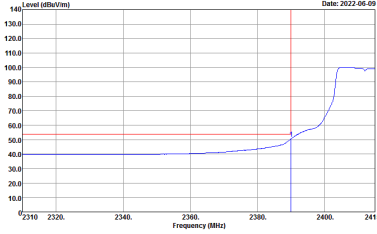
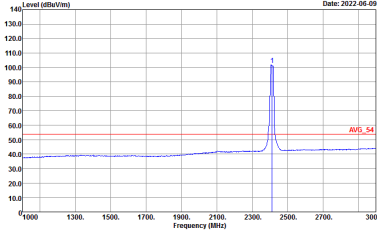
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

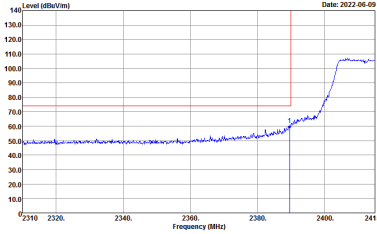
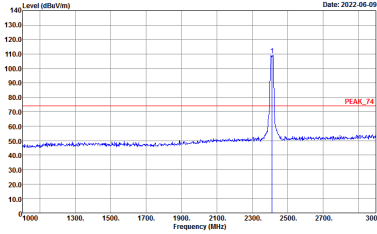
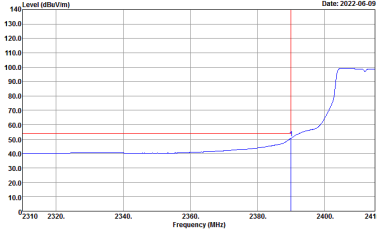
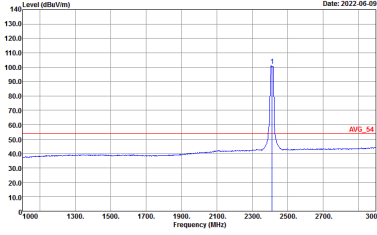


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

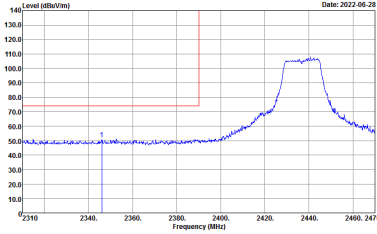
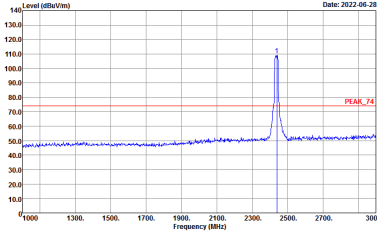
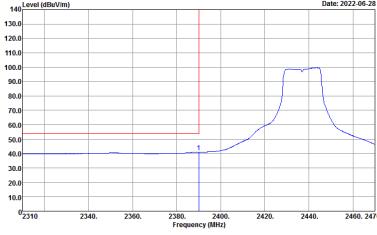
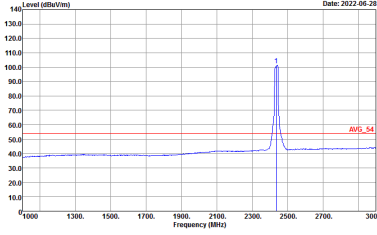


2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

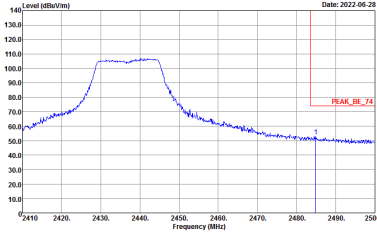
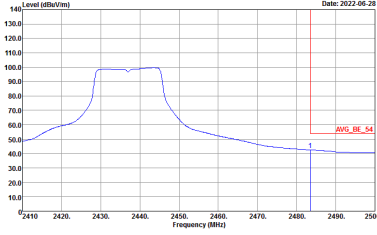
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CHI5-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI5-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CHI5-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CHI5-HY Condition : AVG_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

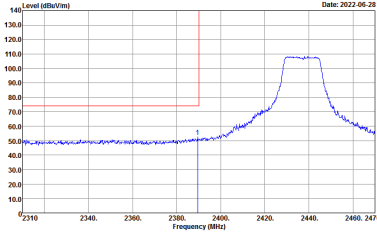
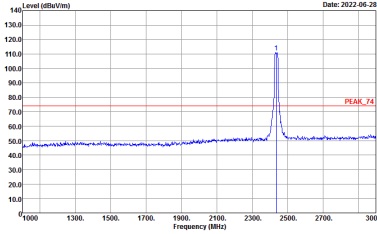
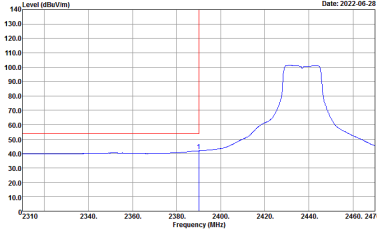
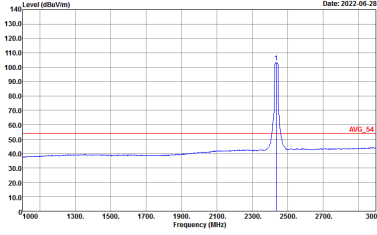


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

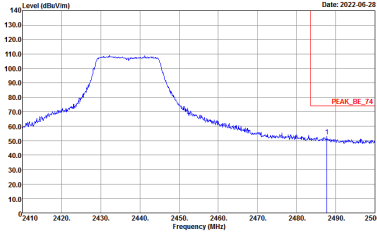
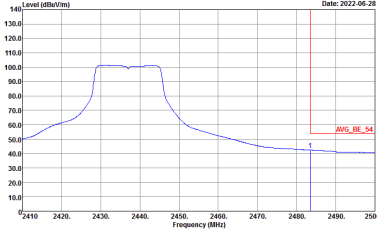


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

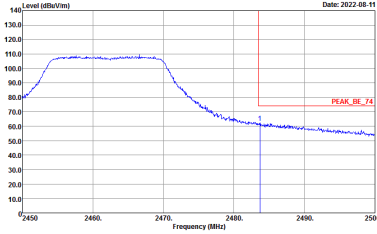
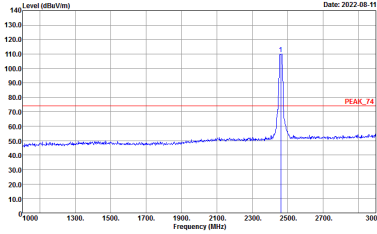
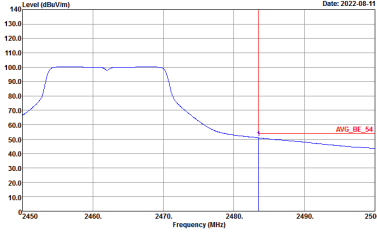
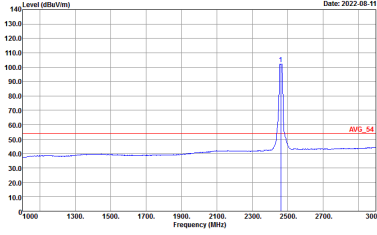


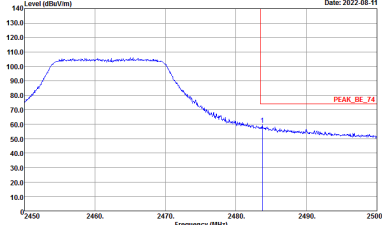
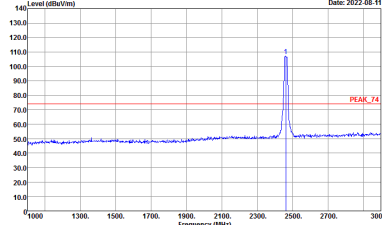
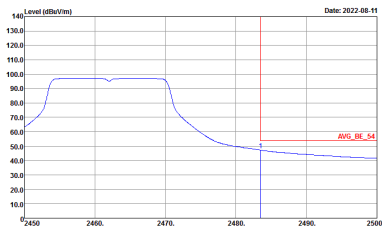
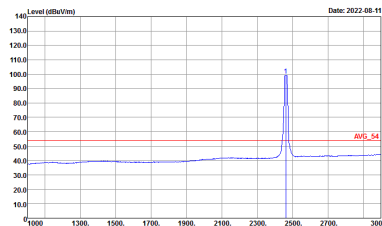
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank

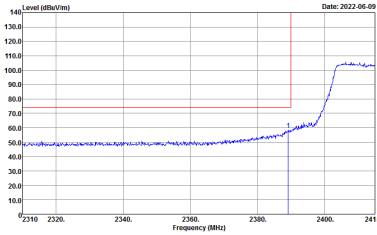
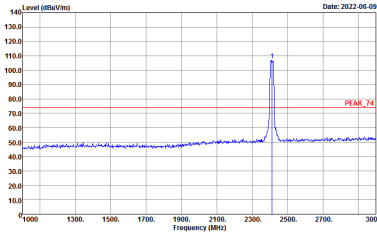
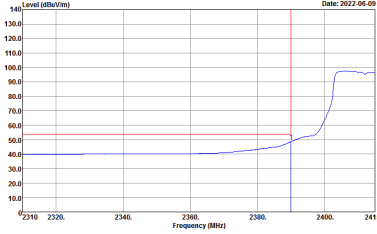
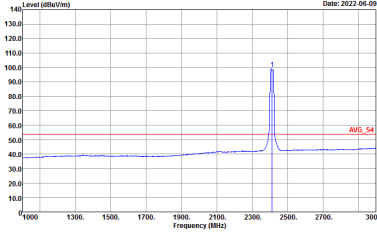


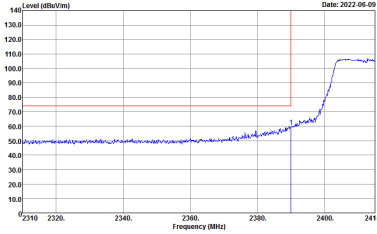
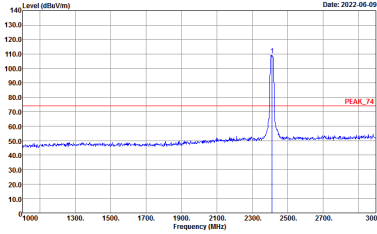
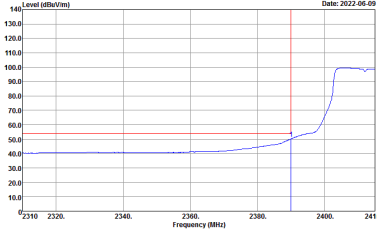
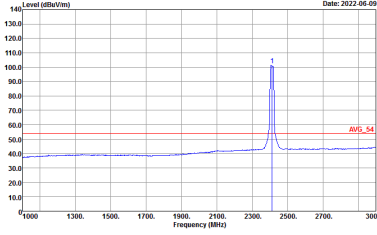
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_02294_220623 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 91200_02294_220623 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

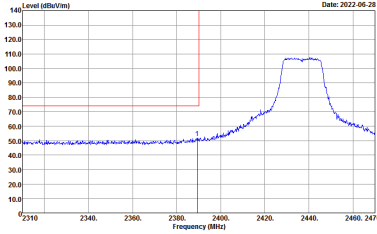
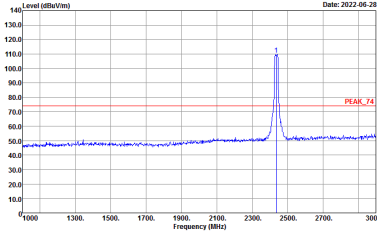
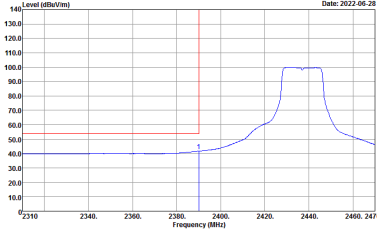
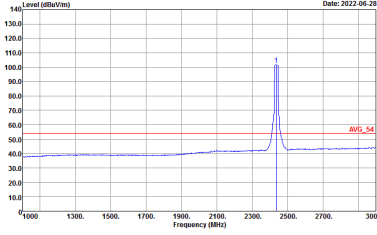


2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

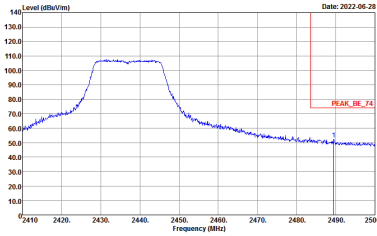
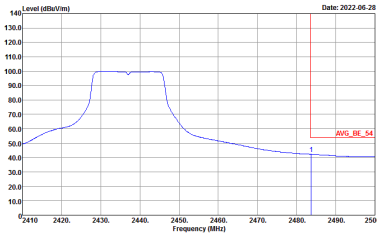
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CHI5-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CHI5-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CHI5-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto	 Site : 03CHI5-HY Condition : AVG_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

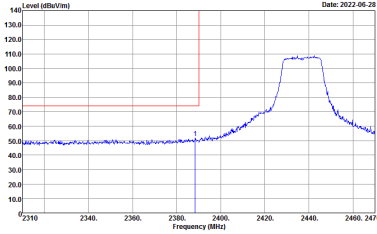
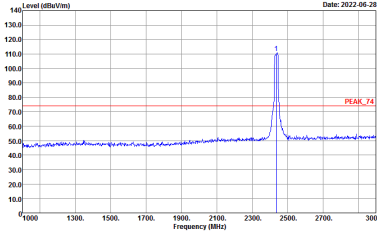
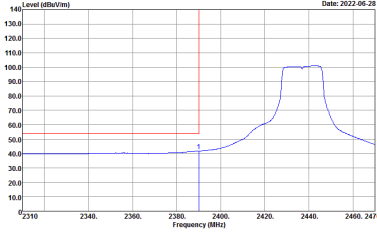
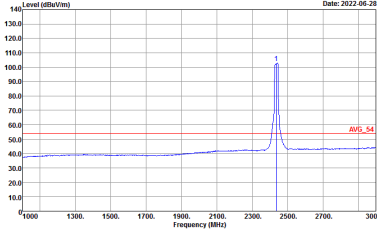


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto

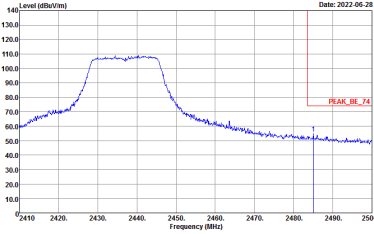
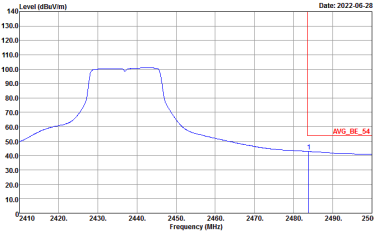


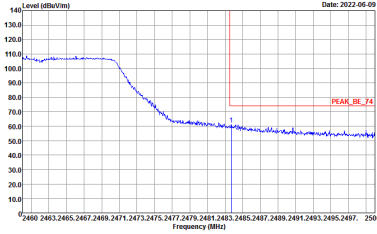
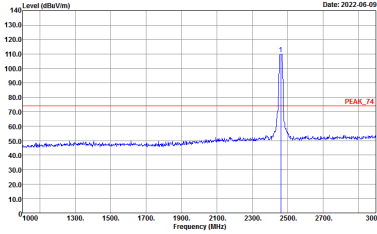
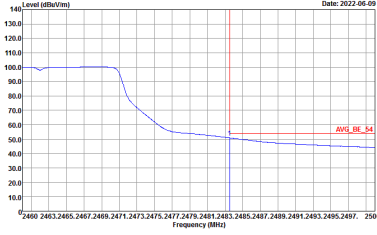
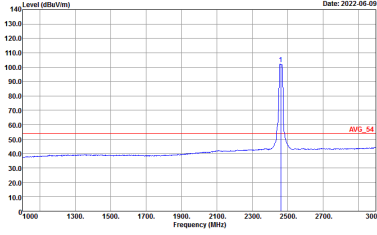
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left blank

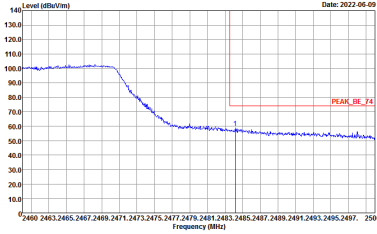
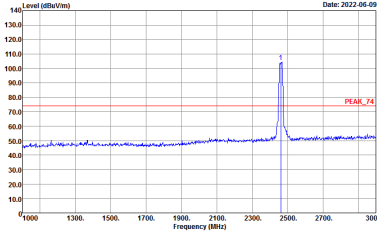
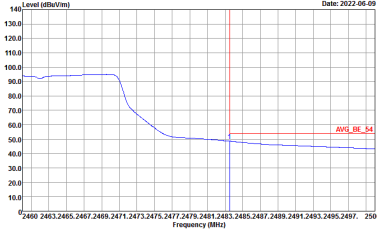
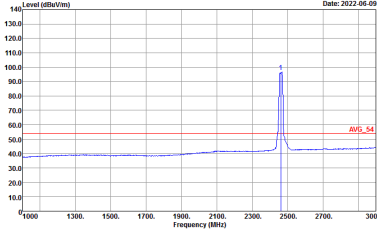


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



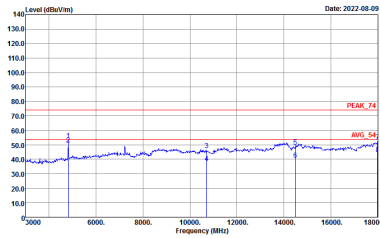
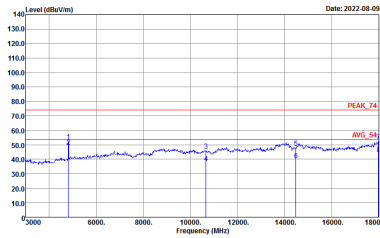
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH15-HY Condition : PEAK_BE_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto
Avg.	 Site : 03CH15-HY Condition : AVG_BE_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto	 Site : 03CH15-HY Condition : AVG_54 3m 90120_02038_20210804 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto



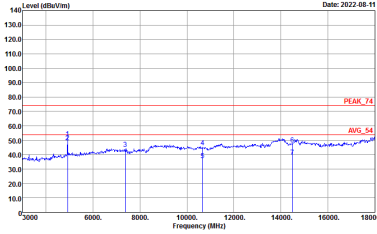
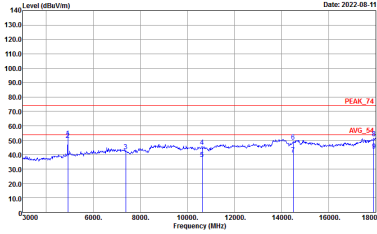
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 91200_02294_220623 VERTICAL



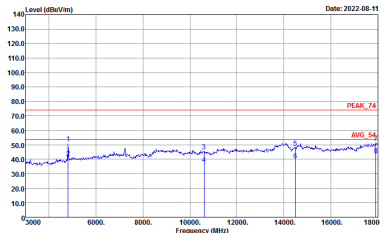
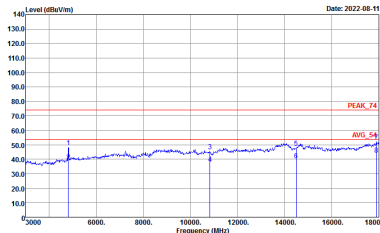
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-07-28 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 HORIZONTAL	Level (dBuV/m) Date: 2022-07-28 Site : 03CH15-HY Condition : PEAK_74 3m 90120_02038_20210804 VERTICAL



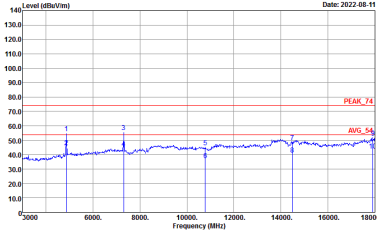
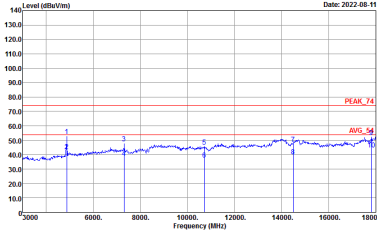
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 VERTICAL



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 : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_Z20623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_Z20623 VERTICAL



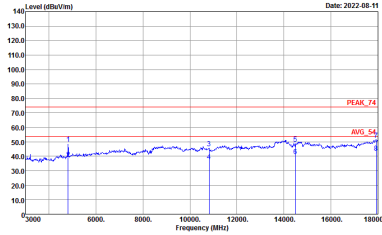
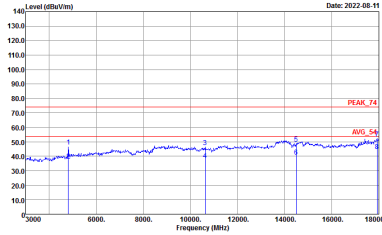
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 VERTICAL



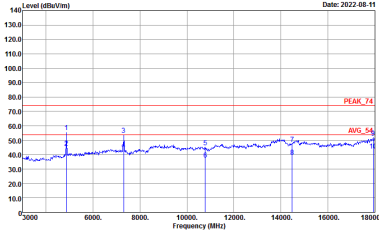
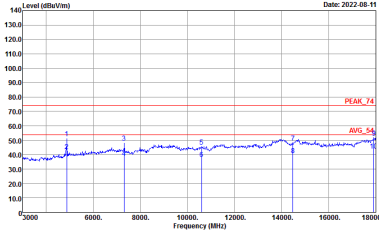
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2022-08-11 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 HORIZONTAL	Level (dBuV/m) Date: 2022-08-11 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 VERTICAL



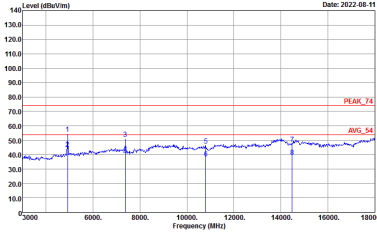
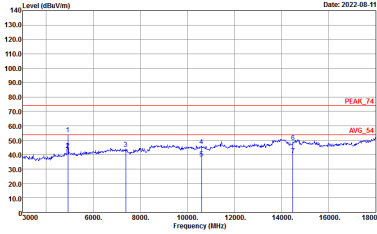
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_Z20623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_Z20623 VERTICAL



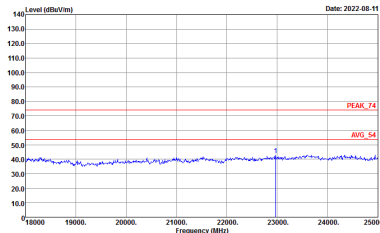
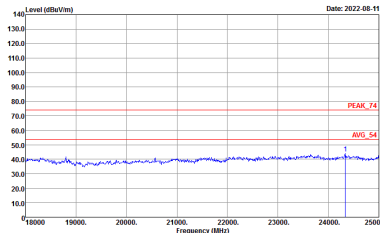
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 VERTICAL



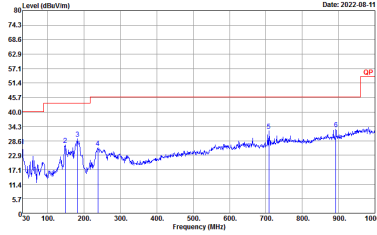
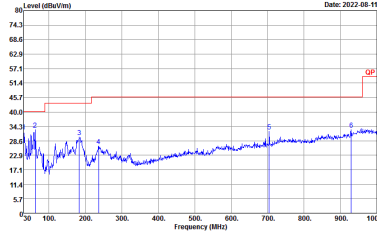
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 3m 9120D_02294_220623 VERTICAL



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.	 Site : 03CH15-HY Condition : PEAK_74 1m SHF_00993_211130 HORIZONTAL	 Site : 03CH15-HY Condition : PEAK_74 1m SHF_00993_211130 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 : 03CH15-HY Condition : QP 3m 81LO6_41912_20220206 HORIZONTAL	 Site : 03CH15-HY Condition : QP 3m 81LO6_41912_20220206 VERTICAL



Appendix E. Duty Cycle Plots

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

