



FCC RADIO TEST REPORT

FCC ID : I28-WYSBHVDXP
Equipment : WLAN/BTLE module
Brand Name : ZEBRA
Model Name : WYSBHVDXP
Applicant : Zebra Technologies Corporation
 3 Overlook Point, Lincolnshire,
 IL 60069, United States
Manufacturer : Zebra Technologies Corporation
 3 Overlook Point, Lincolnshire,
 IL 60069, United States
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 08, 2021 and testing was started from Mar. 19, 2021 and completed on Apr. 27, 2021. 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 of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

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.)



Table of Contents

History of this test report..... 3

Summary of Test Result..... 4

1 General Description 5

 1.1 Product Feature of Equipment Under Test..... 5

 1.2 Product Specification of Equipment Under Test..... 6

 1.3 Modification of EUT 7

 1.4 Testing Location 7

 1.5 Applicable Standards..... 8

2 Test Configuration of Equipment Under Test 9

 2.1 Carrier Frequency and Channel 9

 2.2 Test Mode 10

 2.3 Connection Diagram of Test System..... 14

 2.4 Support Unit used in test configuration and system 15

 2.5 EUT Operation Test Setup 15

 2.6 Measurement Results Explanation Example..... 15

3 Test Result 16

 3.1 6dB and 99% Bandwidth Measurement 16

 3.2 Output Power Measurement..... 19

 3.3 Power Spectral Density Measurement 22

 3.4 Conducted Band Edges and Spurious Emission Measurement 26

 3.5 Radiated Band Edges and Spurious Emission Measurement 51

 3.6 AC Conducted Emission Measurement..... 55

 3.7 Antenna Requirements 57

4 List of Measuring Equipment..... 58

5 Uncertainty of Evaluation 60

Appendix A. AC Conducted Emission Test Result

Appendix B. Radiated Spurious Emission

Appendix C. Radiated Spurious Emission Plots

Appendix D. Duty Cycle Plots

Appendix E. Setup Photographs



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 1.10 dB at 2483.830 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 9.58 dB at 13.241 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: Celery Wei



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	WLAN/BTLE module
Brand Name	ZEBRA
Model Name	WYSBHVDXP
FCC ID	I28-WYSBHVDXP
EUT supports Radios application	WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 WLAN 11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE
HW Version	Revision F
SW Version	17.68.01.p13
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Supported Unit Used in Test Configuration and System				
Printer	Brand Name	ZEBRA	Model Name	ZQ521
Battery	Brand Name	ZEBRA	Part Number	P1089503-003
AC Adapter	Brand Name	ZEBRA	Model Name	FSP025-DYAA3
Bluetooth Antenna 1	Brand Name	gigaAnt	Model Name	3030A5645-01
Bluetooth Antenna 2	Brand Name	TAIYO YUDEN	Model Name	AH 168M245001
Bluetooth Antenna 3	Brand Name	Johanson Technology	Model Name	2450AT07A0100
WLAN Antenna 1	Brand Name	Laird	Model Name	RD2458-5
WLAN Antenna 2	Brand Name	Pulse	Model Name	W3006
WLAN Antenna 3	Brand Name	Auden	Model Name	220370-09
WLAN Antenna 4	Brand Name	Auden	Model Name	B91882-30



1.2 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Average) Output Power to antenna	<p><Ant. 1> 802.11b : 16.90 dBm (0.0490 W) 802.11g : 14.90 dBm (0.0309 W)</p> <p><Ant. 2> 802.11b : 16.90 dBm (0.0490 W) 802.11g : 14.90 dBm (0.0309 W)</p> <p>MIMO <Ant. 1 + 2> 802.11n HT20 : 13.85 dBm (0.0243 W) 802.11n HT40 : 12.71 dBm (0.0187 W) 802.11ac VHT20 : 13.75 dBm(0.0237 W) 802.11ac VHT40 : 12.61 dBm(0.0182 W) 802.11ax HE20 : 13.95 dBm (0.0248 W) 802.11ax HE40 : 12.81 dBm (0.0191 W)</p>
99% Occupied Bandwidth	<p><Ant. 1> 802.11b : 13.39 MHz 802.11g : 16.83 MHz</p> <p><Ant. 2> 802.11b : 13.39 MHz 802.11g : 16.78 MHz</p> <p>MIMO <Ant. 1> 802.11ax HE20 : 18.78 MHz 802.11ax HE40 : 37.76 MHz</p> <p>MIMO <Ant. 2> 802.11ax HE20 : 18.78 MHz 802.11ax HE40 : 37.86 MHz</p>
Antenna Type / Gain	<p><P1044247>: <Ant. 1>: Dipole Antenna with gain 3.00 dBi <Ant. 2>: Dipole Antenna with gain 3.00 dBi</p> <p><Plus W3006>: <Ant. 1>: Chip Antenna with gain 3.20 dBi <Ant. 2>: Chip Antenna with gain 3.20 dBi</p> <p><P1027365-101>: <Ant. 1>: Mylar Antenna with gain 3.81 dBi <Ant. 2>: Mylar Antenna with gain 3.81 dBi</p> <p><P1110774-01>: <Ant. 1>: Mylar Antenna with gain 0.30 dBi <Ant. 2>: Mylar Antenna with gain 0.30 dBi</p>

Standards-related Product Specification			
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK)		
	802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)		
Antenna Function Description	802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)		
	802.11ax : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)		
		Ant. 1	Ant. 2
	802.11 b/g	V	V
	802.11 n/ac/ax MIMO	V	V

Remark:

1. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

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

1.4 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, CO07-HY, 03CH13-HY

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

FCC designation No.: TW3786



1.5 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.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ 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 two antenna polarization (Horizontal and Vertical). The worst cases (Ant. Vertical for P1044247 and Plus W3006; Ant. Horizontal for and P1027365-101) 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.

Single Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps

MIMO Antenna

Modulation	Data Rate
802.11n HT20 (Covered by HE20)	MCS0
802.11n HT40 (Covered by HE40)	MCS0
802.11ac VHT20 (Covered by HE20)	MCS0
802.11ac VHT40 (Covered by HE40)	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Link + Bluetooth Link + Printer + AC Adapter + WLAN Antenna *2 + Bluetooth Antenna

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11ax HE20	802.11ax HE40
Low	01	01	01	03
Middle	06	06	06	06
High	11	11	11	09

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.



<Ant. 1>

802.11b RF Avg Output Power (dBm)						
Power vs. Channel			Power vs Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
		1M		2M	5.5M	11M
CH 01	2412	16.50	CH 11	16.80	16.80	16.80
CH 06	2437	16.70				
CH 11	2462	16.90				

802.11g RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 01	2412	14.90	CH 01	14.80	14.80	14.80	14.80	14.80	14.80	14.80
CH 06	2437	14.50								
CH 11	2462	14.90								

<Ant. 2>

802.11b RF Avg Output Power (dBm)						
Power vs. Channel			Power vs Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
		1M		2M	5.5M	11M
CH 01	2412	16.90	CH 01	16.80	16.80	16.80
CH 06	2437	16.90				
CH 11	2462	16.50				

802.11g RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 01	2412	14.90	CH 01	14.80	14.80	14.80	14.80	14.80	14.80	14.80
CH 06	2437	14.50								
CH 11	2462	14.90								



MIMO <Ant. 1+2>

802.11n HT20 RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412	13.61	CH 06	13.75	13.75	13.75	13.75	13.75	13.75	13.75
CH 06	2437	13.85								
CH 11	2462	13.42								

802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2422	10.68	CH 06	12.61	12.61	12.61	12.61	12.61	12.61	12.61
CH 06	2437	12.71								
CH 09	2452	10.87								

802.11ac VHT20 RF Avg Output Power (dBm)											
Power vs. Channel			Power vs Data Rate								
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index							
		MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8
CH 01	2412	13.51	CH 06	13.65	13.65	13.65	13.65	13.65	13.65	13.65	13.65
CH 06	2437	13.75									
CH 11	2462	13.32									

802.11ac VHT40 RF Avg Output Power (dBm)												
Power vs. Channel			Power vs Data Rate									
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index								
		MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9
CH 03	2422	10.58	CH 06	12.51	12.51	12.51	12.51	12.51	12.51	12.51	12.51	12.51
CH 06	2437	12.61										
CH 09	2452	10.77										

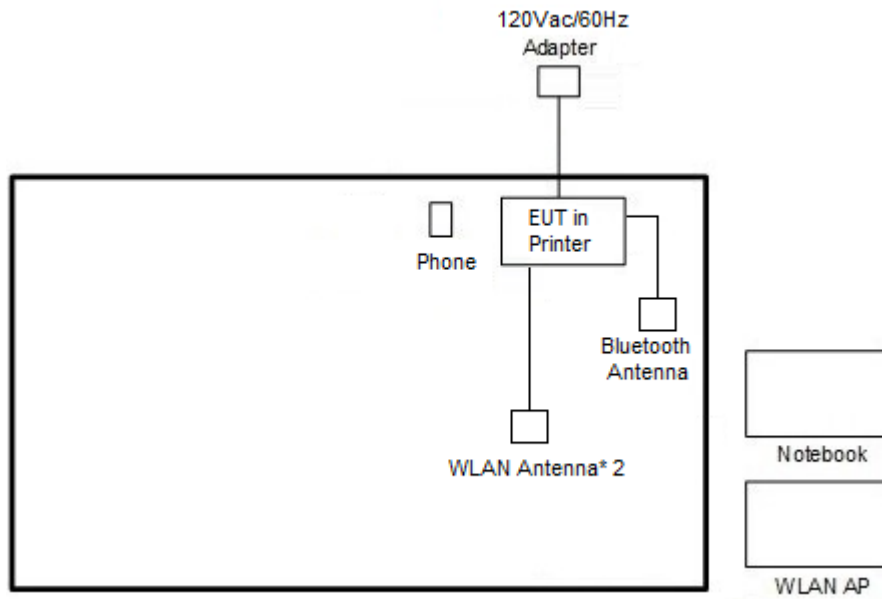


802.11ax HE20 RF Avg Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9	MCS 10	MCS 11
CH 01	2412	Full	13.71												
CH 06	2437	Full	13.95	CH 06	13.85	13.85	13.85	13.85	13.85	13.85	13.85	13.85	13.85	13.85	13.85
CH 11	2462	Full	13.52												

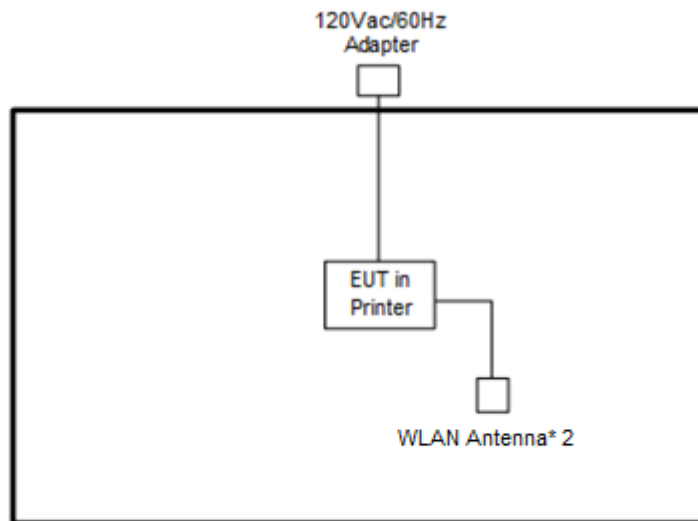
802.11ax HE40 RF Avg Output Power (dBm)															
Power vs. Channel				Power vs Data Rate											
Channel	Frequency (MHz)	RU Config.	MCS Index	Channel	MCS Index										
			MCS 0		MCS 1	MCS 2	MCS 3	MCS 4	MCS 5	MCS 6	MCS 7	MCS 8	MCS 9	MCS 10	MCS 11
CH 03	2422	Full	10.78												
CH 06	2437	Full	12.81	CH 06	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71	12.71
CH 09	2452	Full	10.97												

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.	Phone	SUGAR	Y12s	FCC DoC	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m

2.5 EUT Operation Test Setup

The RF test items, utility “Toolbox_Version 1.84” 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.

$$\text{Offset} = \text{RF cable loss} + \text{attenuator factor}.$$

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\text{Offset(dB)} = \text{RF cable loss(dB)} + \text{attenuator factor(dB)}.$$

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

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.

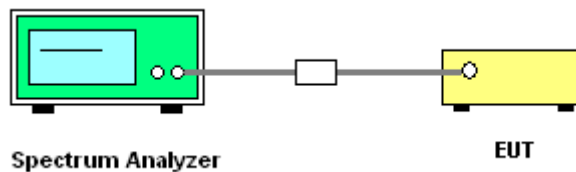
3.1.2 Measuring Instruments

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 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



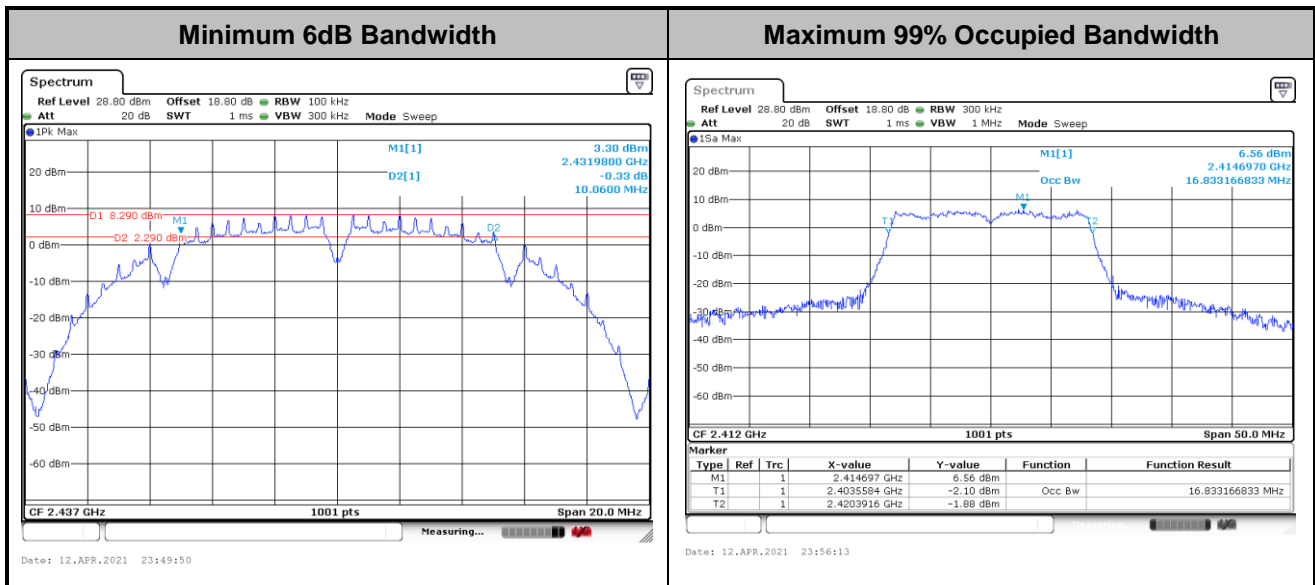


3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Test Engineer :	Rebecca Li and Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

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	13.34	13.39	10.08	10.08	0.50	Pass
11b	1Mbps	1	6	2437	13.39	13.34	10.08	10.06	0.50	Pass
11b	1Mbps	1	11	2462	13.29	13.34	10.08	10.08	0.50	Pass
11g	6Mbps	1	1	2412	16.83	16.78	16.36	16.36	0.50	Pass
11g	6Mbps	1	6	2437	16.78	16.78	16.36	16.36	0.50	Pass
11g	6Mbps	1	11	2462	16.78	16.73	16.36	16.34	0.50	Pass

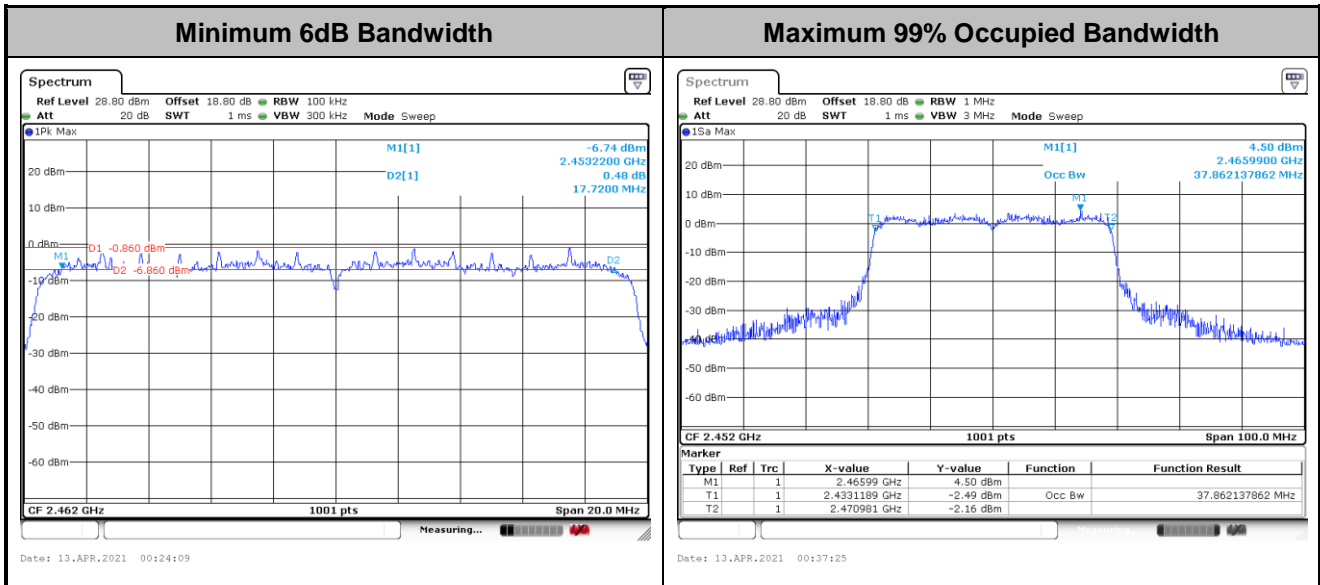


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



<For 802.11ax Mode>

2.4GHz Band MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant2	Ant1	Ant2		
HE20	MCS0	2	1	2412	Full	18.78	18.78	18.48	18.20	0.50	Pass
HE20	MCS0	2	6	2437	Full	18.78	18.73	18.10	17.98	0.50	Pass
HE20	MCS0	2	11	2462	Full	18.78	18.78	18.10	17.72	0.50	Pass
HE40	MCS0	2	3	2422	Full	37.76	37.76	36.96	35.72	0.50	Pass
HE40	MCS0	2	6	2437	Full	37.76	37.76	36.36	35.72	0.50	Pass
HE40	MCS0	2	9	2452	Full	37.76	37.86	36.12	35.56	0.50	Pass



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.

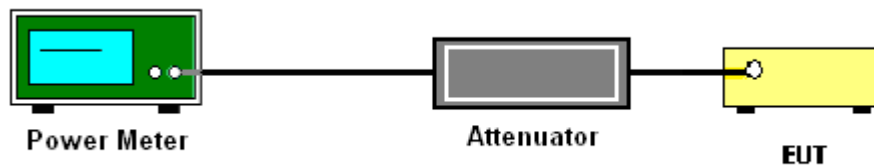
3.2.2 Measuring Instruments

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 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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup





3.2.5 Test Result of Average Output Power

Test Engineer :	Rebecca Li and Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

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	16.50	16.90		30.00	30.00	3.81	3.81	20.31	20.71	36.00	36.00	Pass
11b	1Mbps	1	6	2437	16.70	16.90		30.00	30.00	3.81	3.81	20.51	20.71	36.00	36.00	Pass
11b	1Mbps	1	11	2462	16.90	16.50		30.00	30.00	3.81	3.81	20.71	20.31	36.00	36.00	Pass
11g	6Mbps	1	1	2412	14.90	14.90		30.00	30.00	3.81	3.81	18.71	18.71	36.00	36.00	Pass
11g	6Mbps	1	6	2437	14.50	14.50		30.00	30.00	3.81	3.81	18.31	18.31	36.00	36.00	Pass
11g	6Mbps	1	11	2462	14.90	14.90		30.00	30.00	3.81	3.81	18.71	18.71	36.00	36.00	Pass

2.4GHz Band MIMO

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	
HT20	MCS0	2	1	2412	11.20	9.90	13.61	30.00	30.00	3.81	3.81	17.42	17.42	36.00	36.00	Pass
HT20	MCS0	2	6	2437	11.40	10.20	13.85	30.00	30.00	3.81	3.81	17.66	17.66	36.00	36.00	Pass
HT20	MCS0	2	11	2462	11.10	9.60	13.42	30.00	30.00	3.81	3.81	17.23	17.23	36.00	36.00	Pass
HT40	MCS0	2	3	2422	8.40	6.80	10.68	30.00	30.00	3.81	3.81	14.49	14.49	36.00	36.00	Pass
HT40	MCS0	2	6	2437	10.30	9.00	12.71	30.00	30.00	3.81	3.81	16.52	16.52	36.00	36.00	Pass
HT40	MCS0	2	9	2452	8.50	7.10	10.87	30.00	30.00	3.81	3.81	14.68	14.68	36.00	36.00	Pass
VHT20	MCS0	2	1	2412	11.10	9.80	13.51	30.00	30.00	3.81	3.81	17.32	17.32	36.00	36.00	Pass
VHT20	MCS0	2	6	2437	11.30	10.10	13.75	30.00	30.00	3.81	3.81	17.56	17.56	36.00	36.00	Pass
VHT20	MCS0	2	11	2462	11.00	9.50	13.32	30.00	30.00	3.81	3.81	17.13	17.13	36.00	36.00	Pass
VHT40	MCS0	2	3	2422	8.30	6.70	10.58	30.00	30.00	3.81	3.81	14.39	14.39	36.00	36.00	Pass
VHT40	MCS0	2	6	2437	10.20	8.90	12.61	30.00	30.00	3.81	3.81	16.42	16.42	36.00	36.00	Pass
VHT40	MCS0	2	9	2452	8.40	7.00	10.77	30.00	30.00	3.81	3.81	14.58	14.58	36.00	36.00	Pass



<For 802.11ax Mode>

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	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	
HE20	MCS0	2	1	2412	Full	11.30	10.00	13.71	30.00		3.81		17.52		36.00	Pass	
HE20	MCS0	2	6	2437	Full	11.50	10.30	13.95	30.00		3.81		17.76		36.00	Pass	
HE20	MCS0	2	11	2462	Full	11.20	9.70	13.52	30.00		3.81		17.33		36.00	Pass	
HE40	MCS0	2	3	2422	Full	8.50	6.90	10.78	30.00		3.81		14.59		36.00	Pass	
HE40	MCS0	2	6	2437	Full	10.40	9.10	12.81	30.00		3.81		16.62		36.00	Pass	
HE40	MCS0	2	9	2452	Full	8.60	7.20	10.97	30.00		3.81		14.78		36.00	Pass	

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

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 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.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

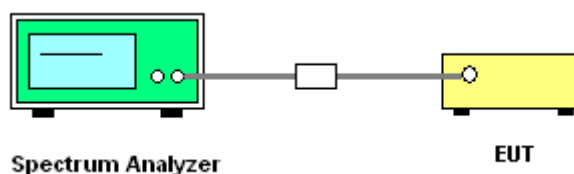
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

3.3.4 Test Setup

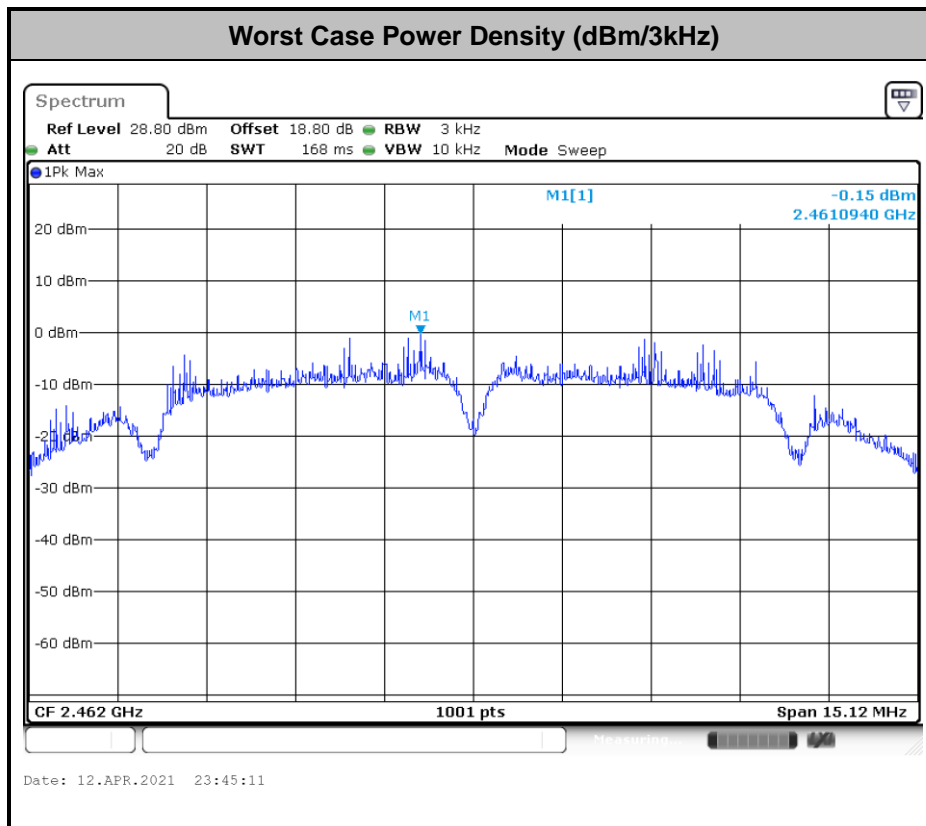




3.3.5 Test Result of Power Spectral Density

Test Engineer :	Rebecca Li and Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

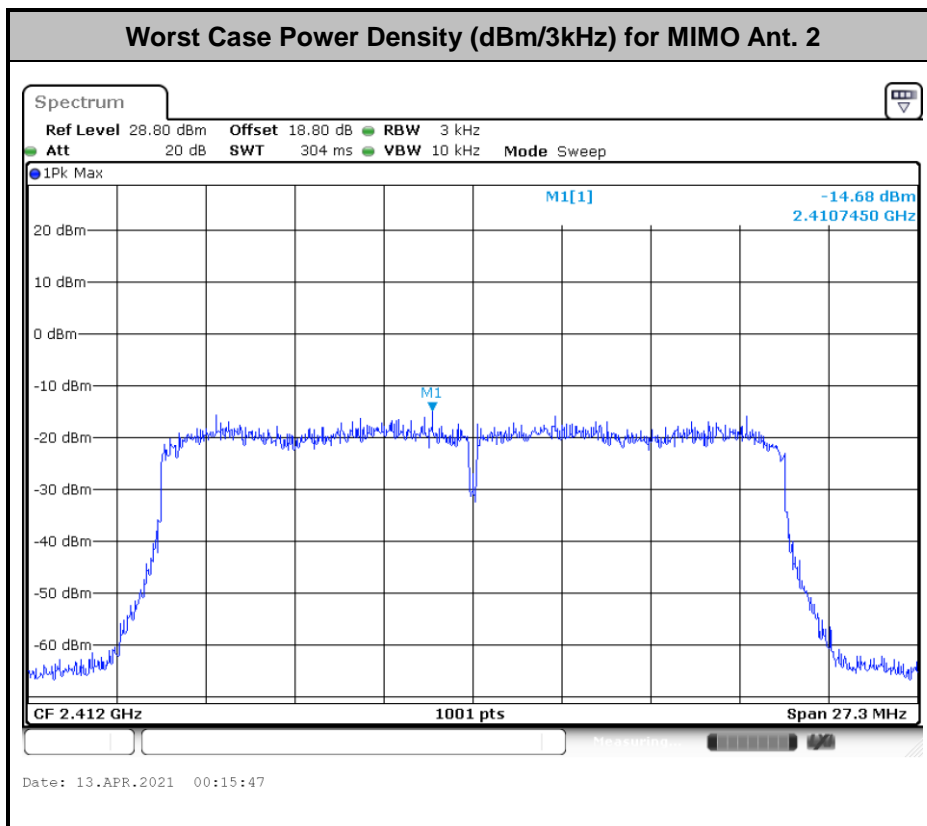
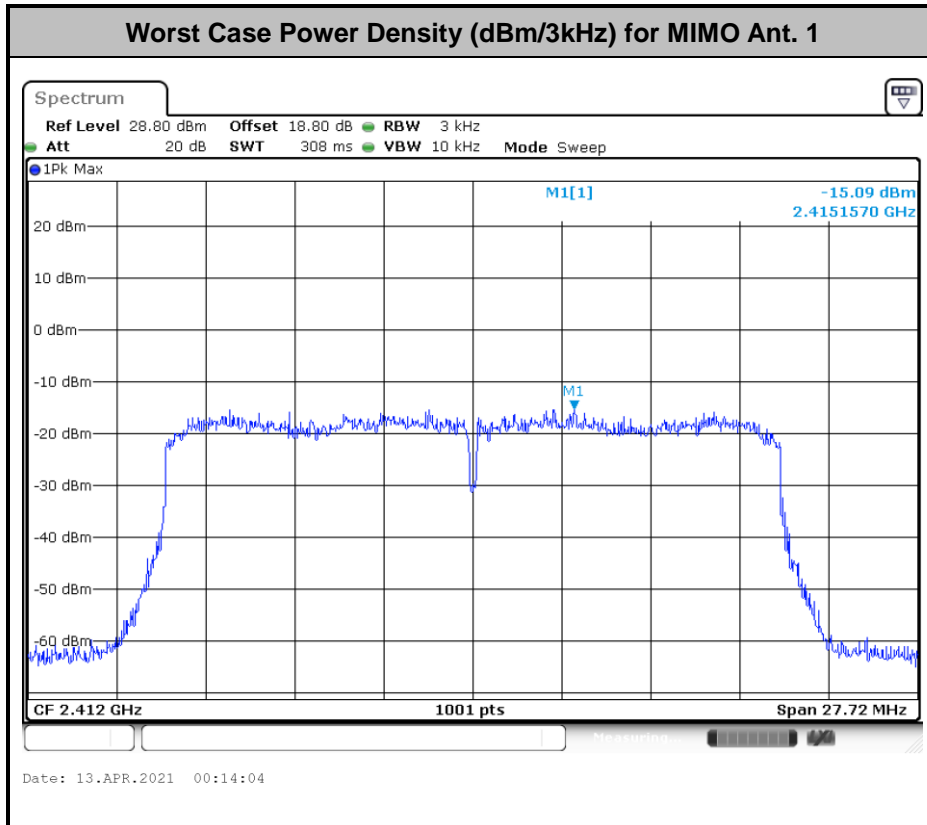
2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	1	1	2412	-1.41	-0.81	-	3.81	3.81	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-1.01	-0.39		3.81	3.81	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-0.15	-1.00		3.81	3.81	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-10.28	-11.37		3.81	3.81	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-11.76	-11.21		3.81	3.81	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-11.09	-10.67		3.81	3.81	8.00	8.00	Pass





<For 802.11ax Mode>

2.4GHz Band MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
						Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
HE20	MCS0	2	1	2412	Full	-15.09	-14.68	-11.67	6.82		7.18		Pass
HE20	MCS0	2	6	2437	Full	-14.89	-15.80	-11.88	6.82		7.18		Pass
HE20	MCS0	2	11	2462	Full	-14.76	-14.85	-11.75	6.82		7.18		Pass
HE40	MCS0	2	3	2422	Full	-20.35	-21.21	-17.34	6.82		7.18		Pass
HE40	MCS0	2	6	2437	Full	-17.41	-20.04	-14.40	6.82		7.18		Pass
HE40	MCS0	2	9	2452	Full	-20.20	-20.50	-17.19	6.82		7.18		Pass



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.

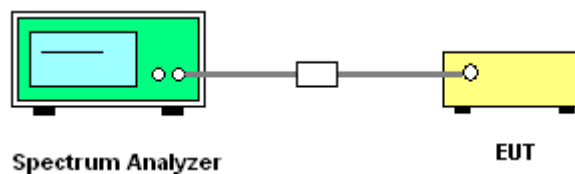
3.4.2 Measuring Instruments

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 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



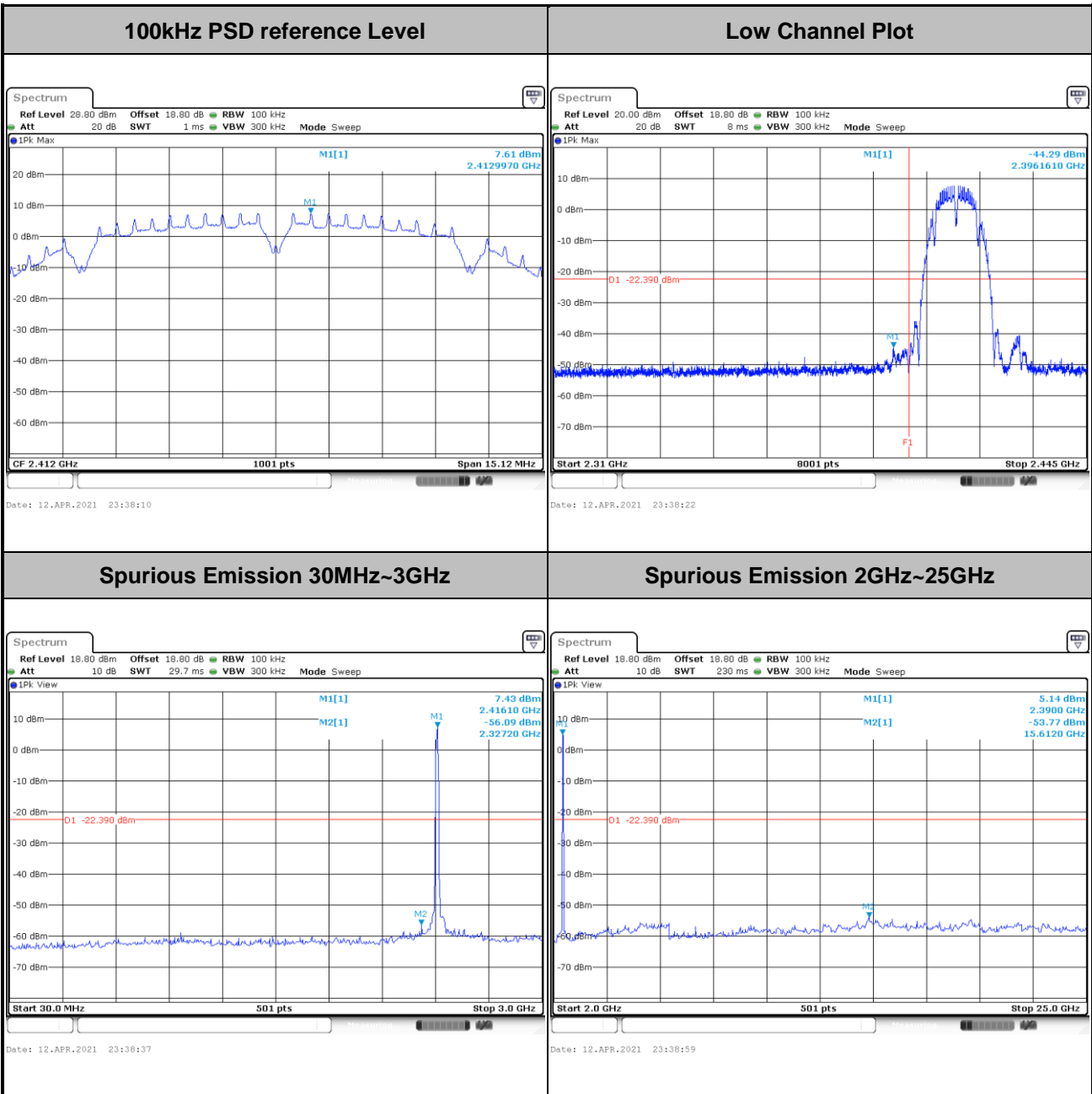


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Rebecca Li and Hank Hsu	Temperature :	21~25°C
		Relative Humidity :	51~54%

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

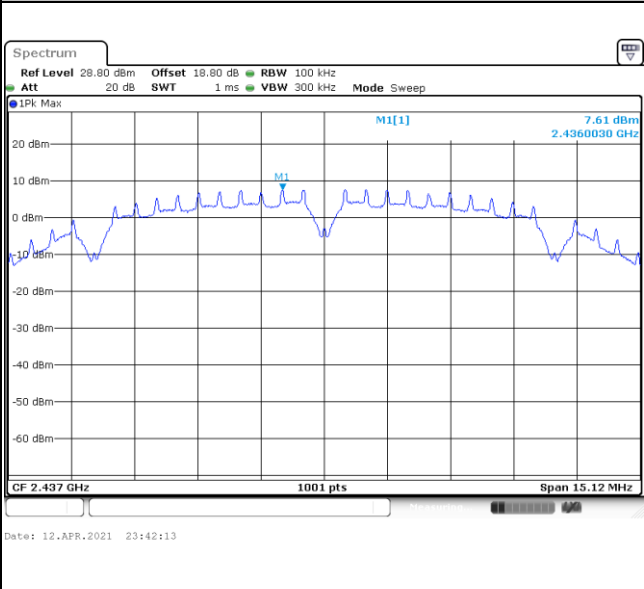
Test Mode :	802.11b	Test Channel :	01
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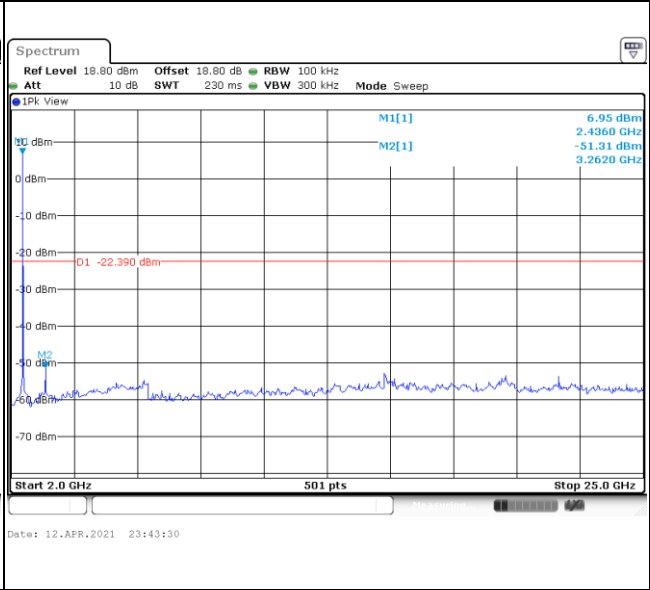
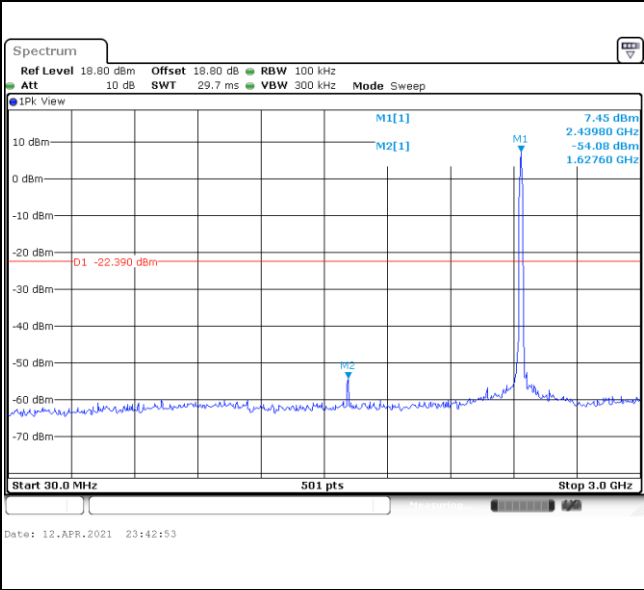


Test Mode :	802.11b	Test Channel :	06
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100kHz PSD reference Level	Mid Channel Plot
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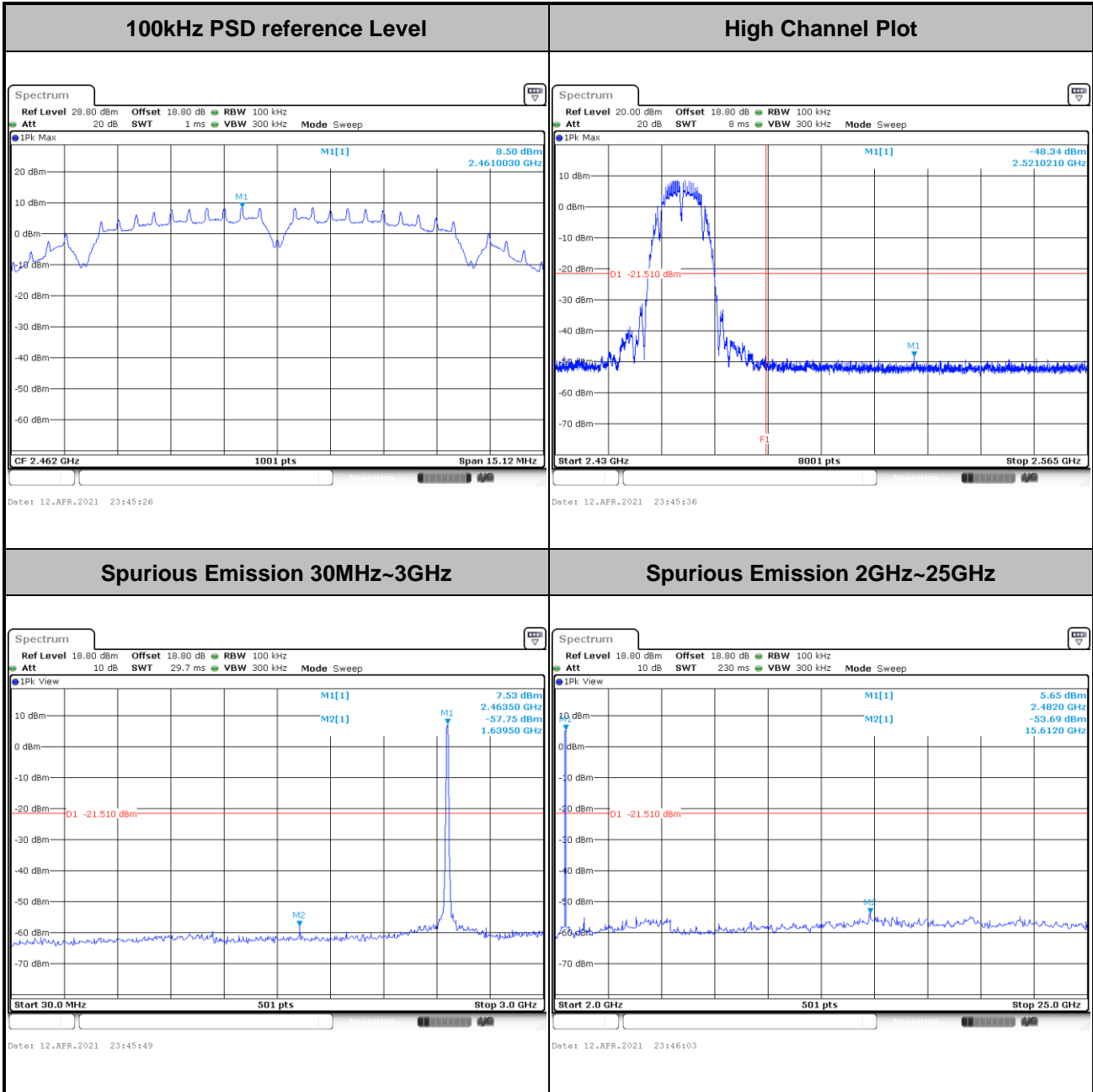


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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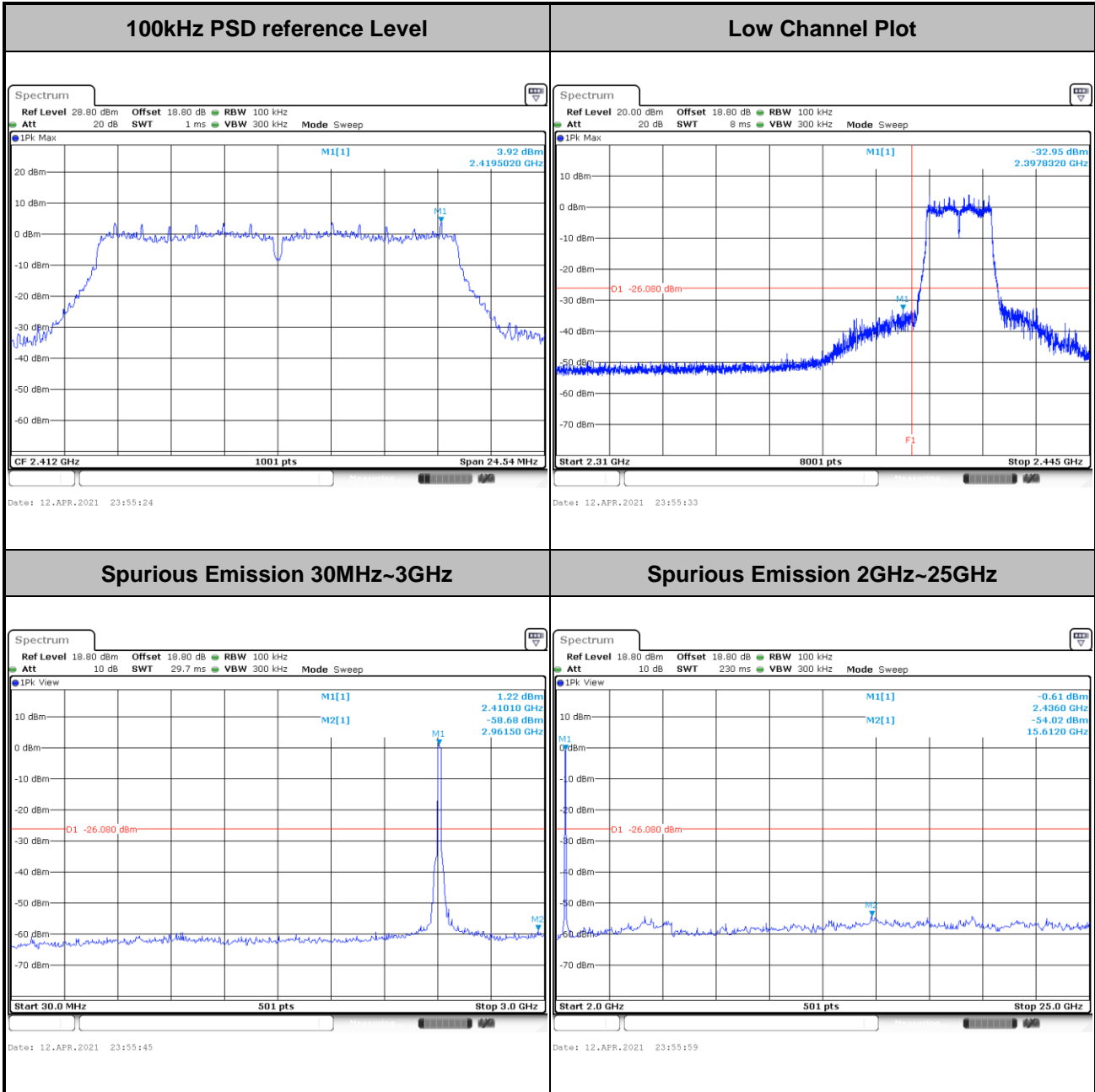


Test Mode :	802.11b	Test Channel :	11
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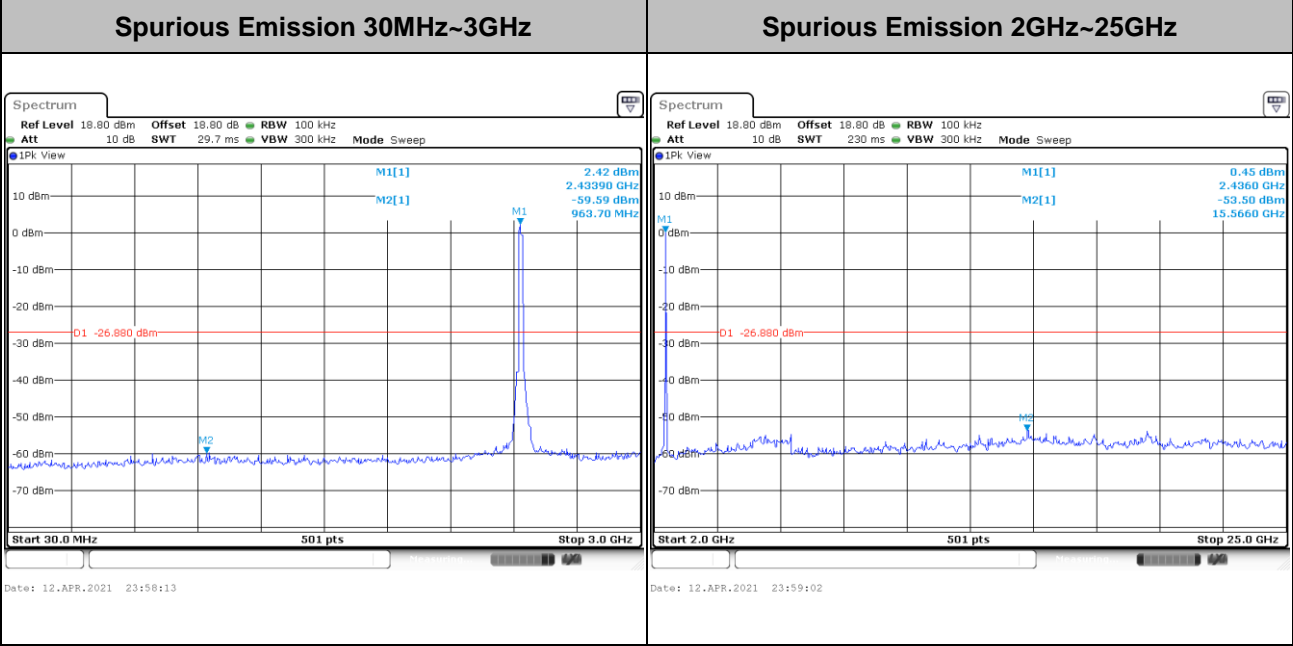
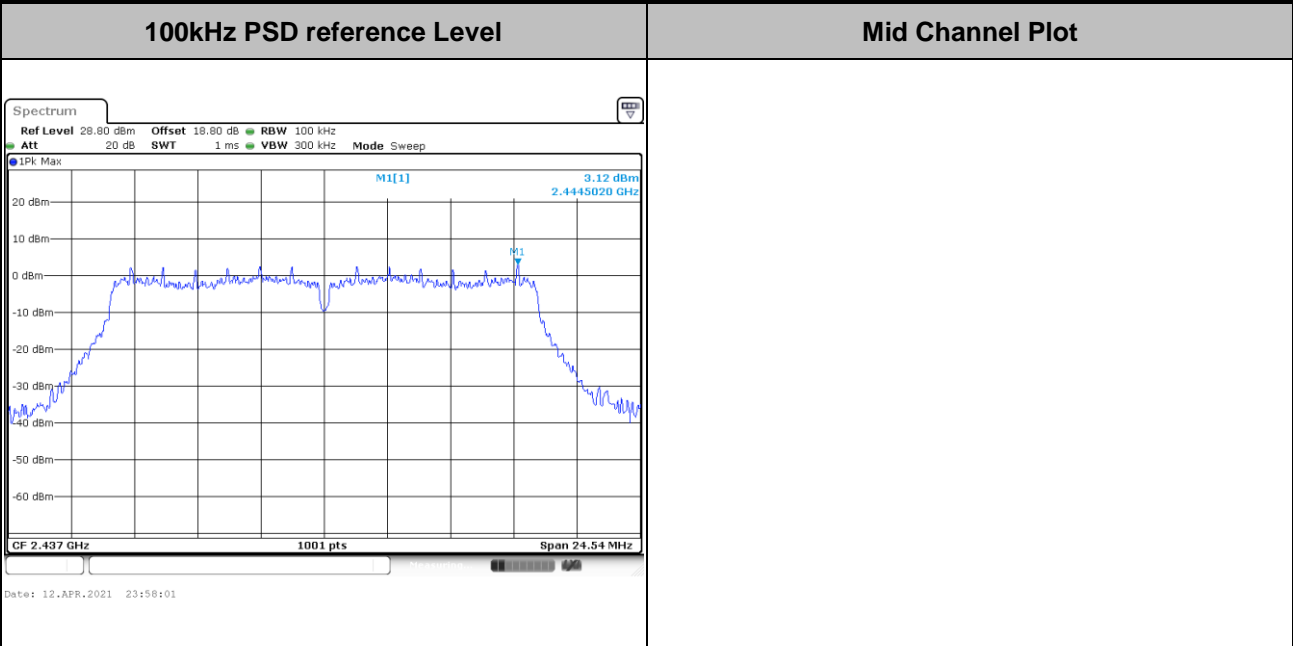


Test Mode :	802.11g	Test Channel :	01
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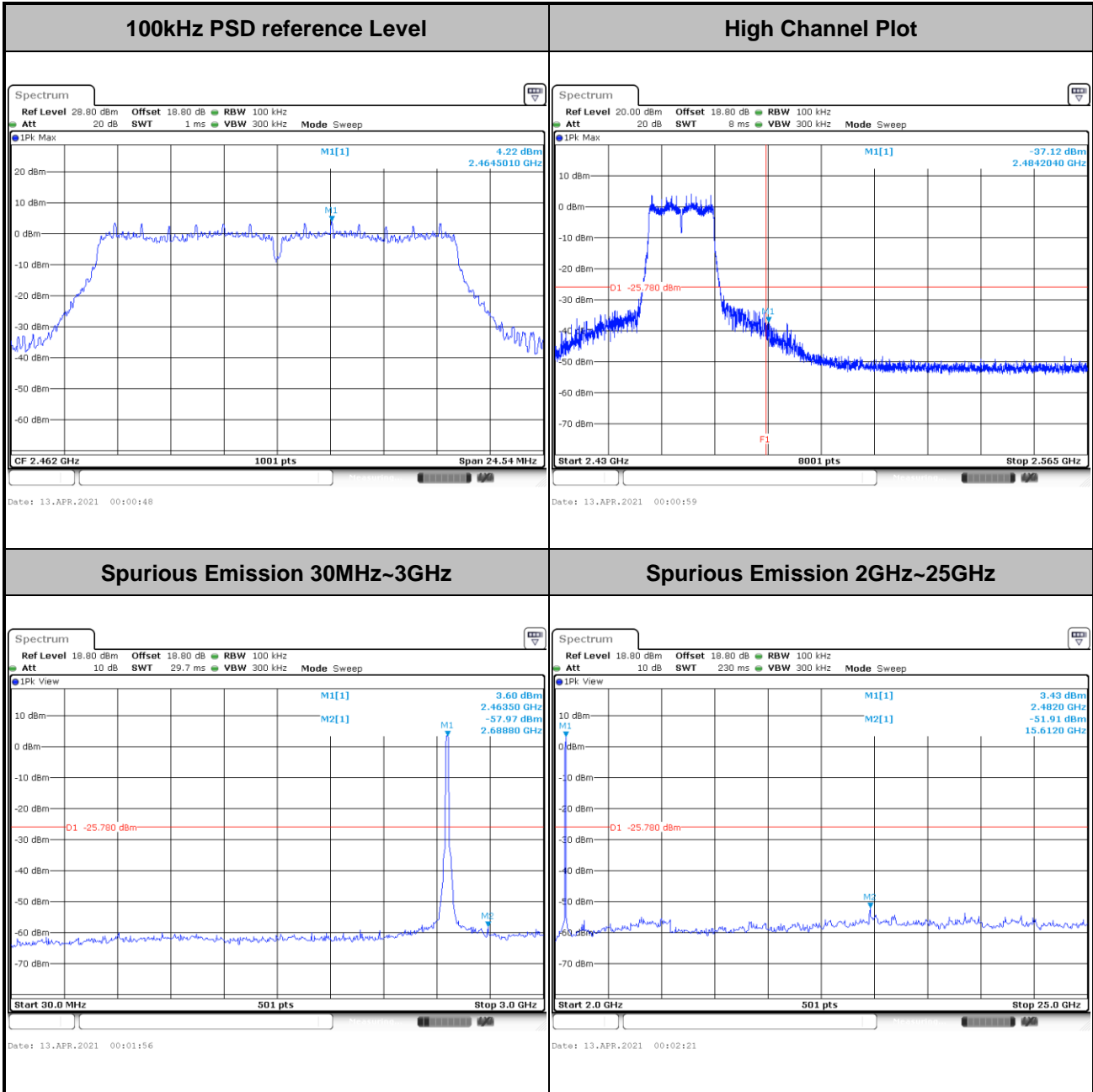


Test Mode :	802.11g	Test Channel :	06
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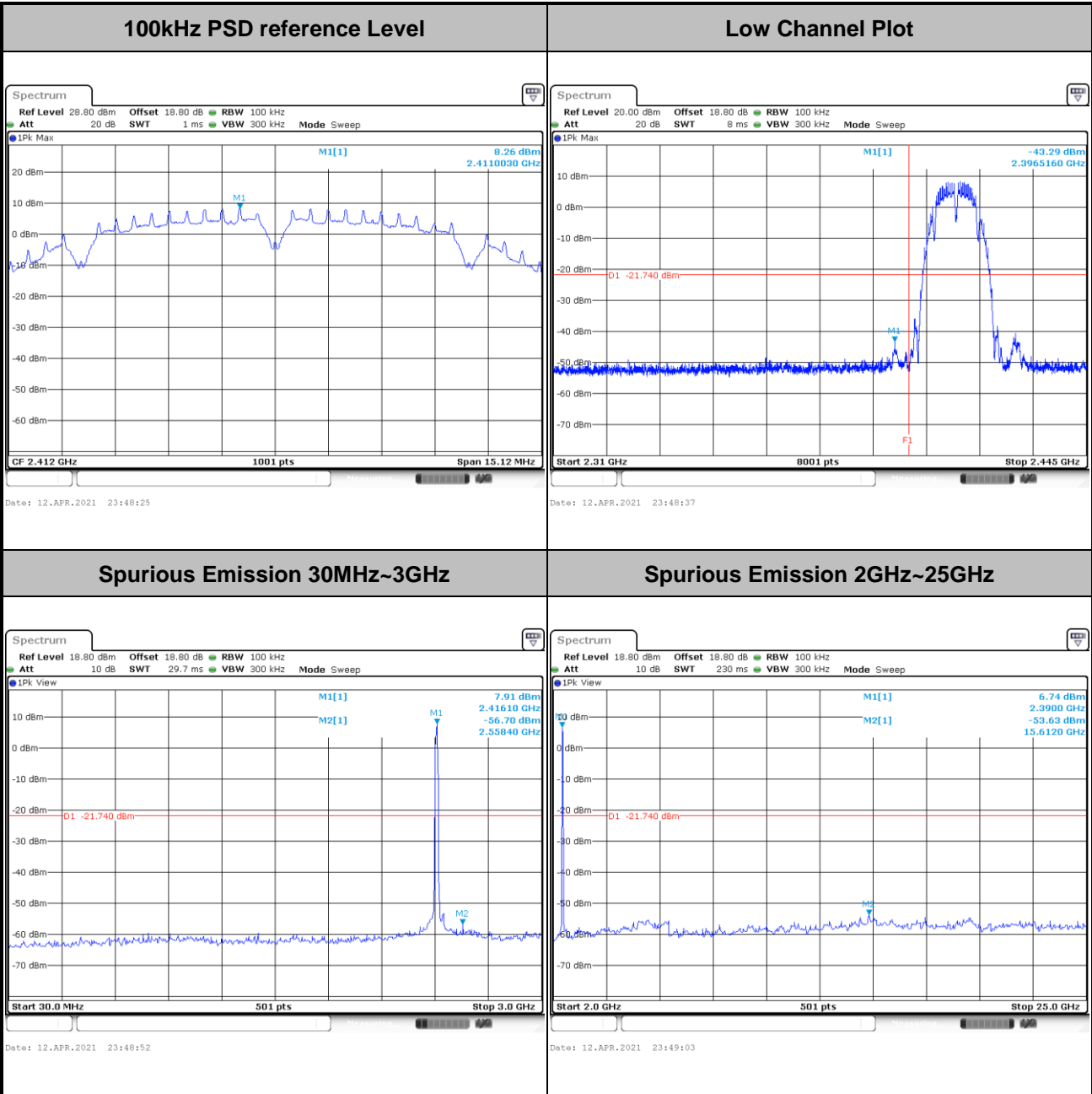
Test Mode :	802.11g	Test Channel :	11
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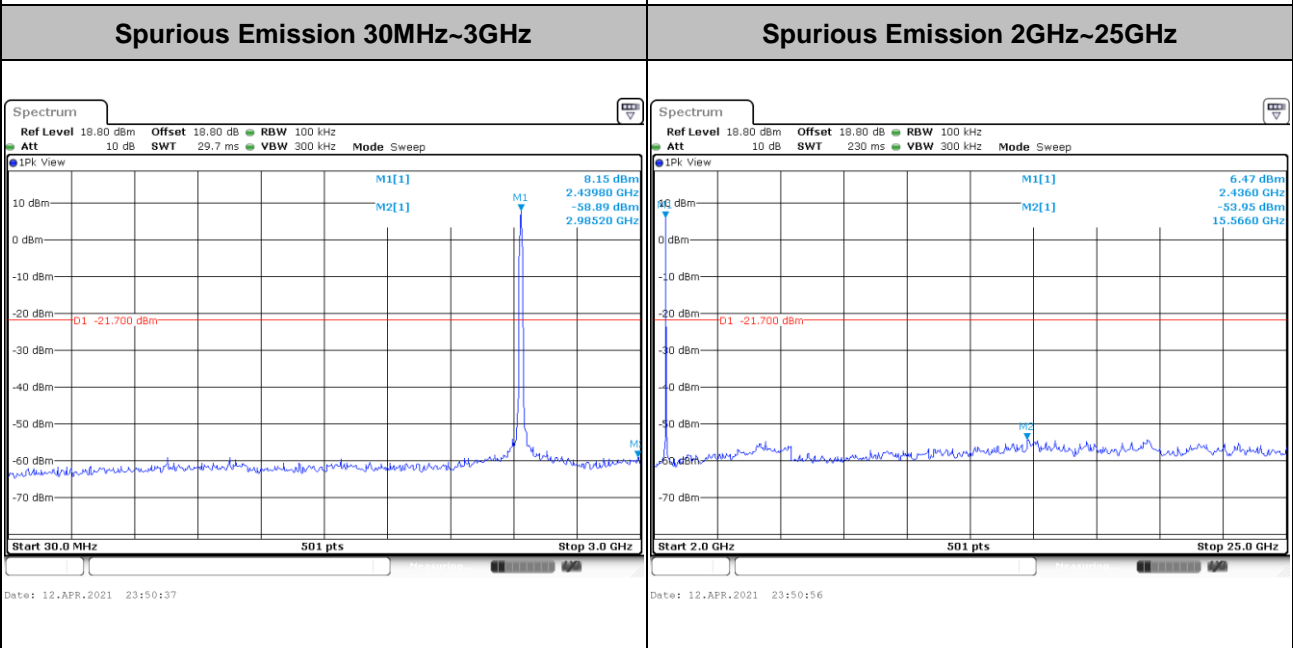
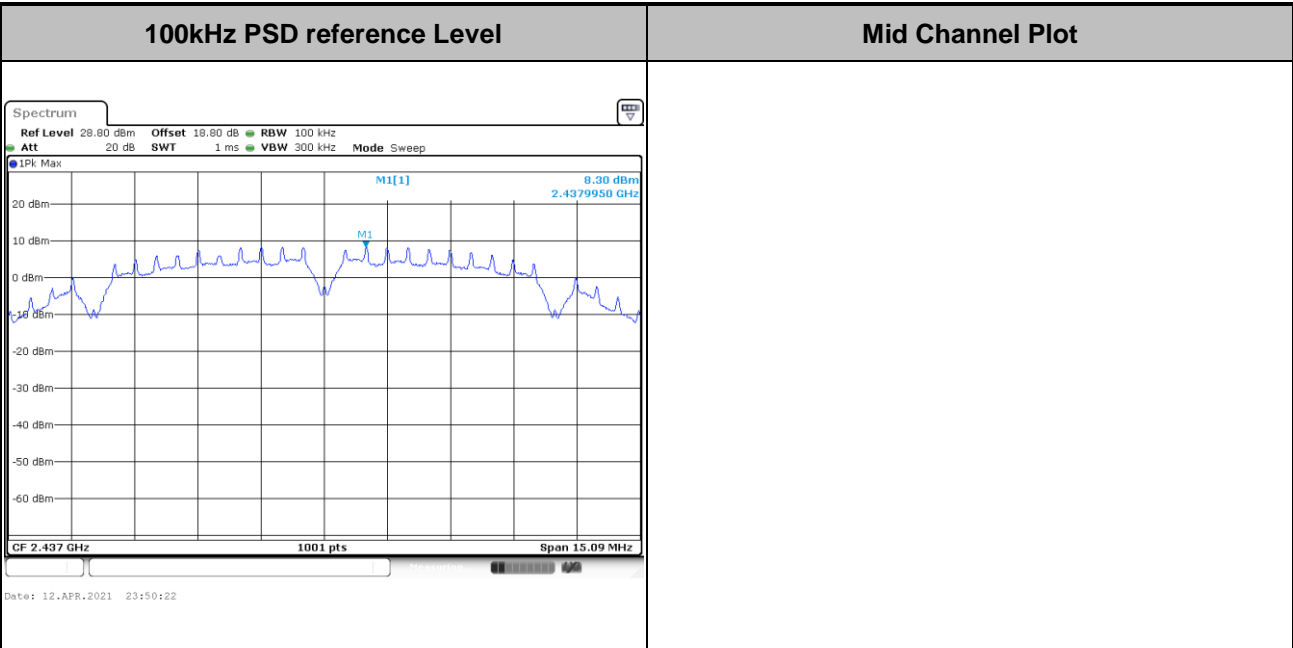
Number of TX = 1, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
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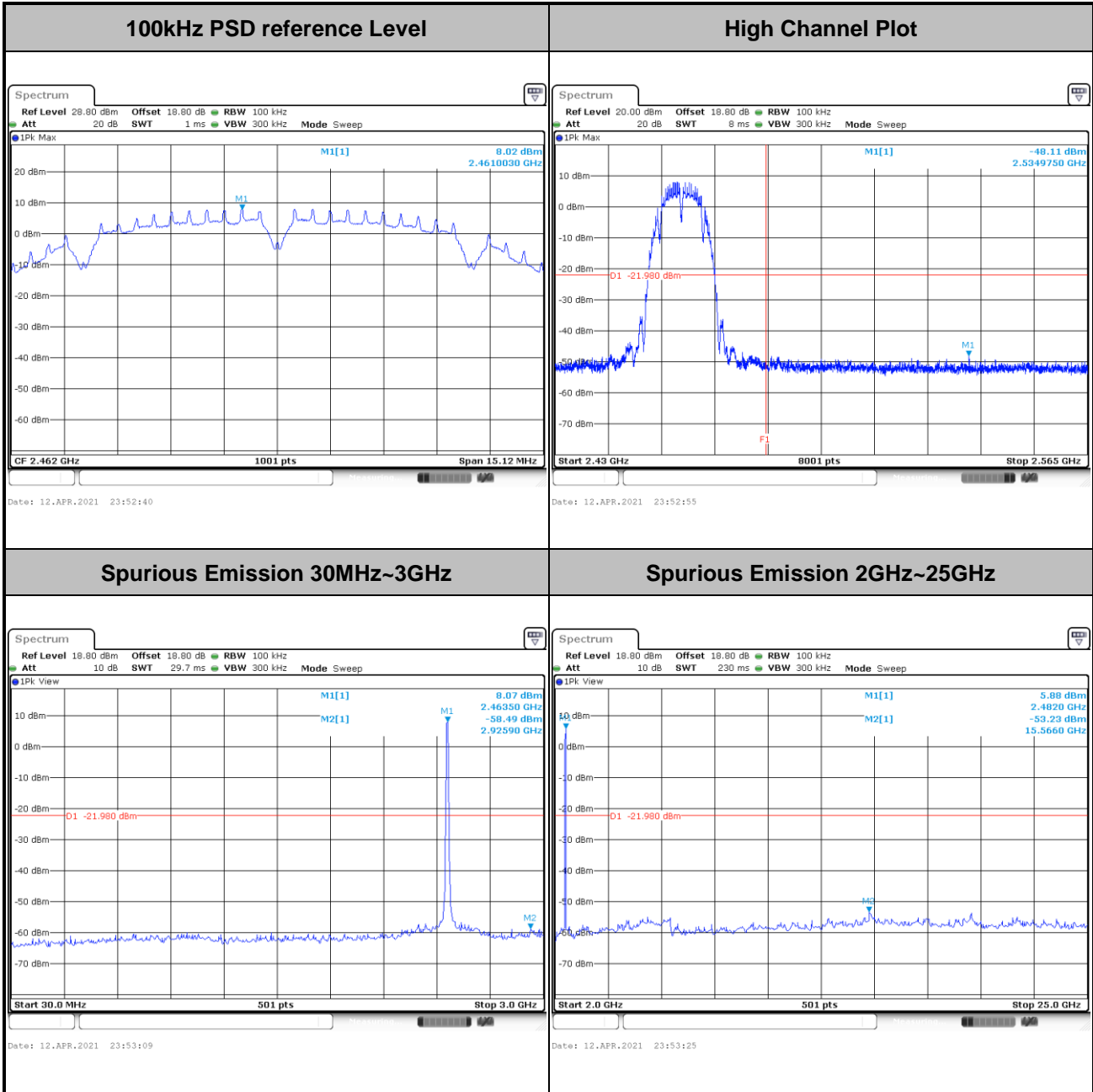


Test Mode :	802.11b	Test Channel :	06
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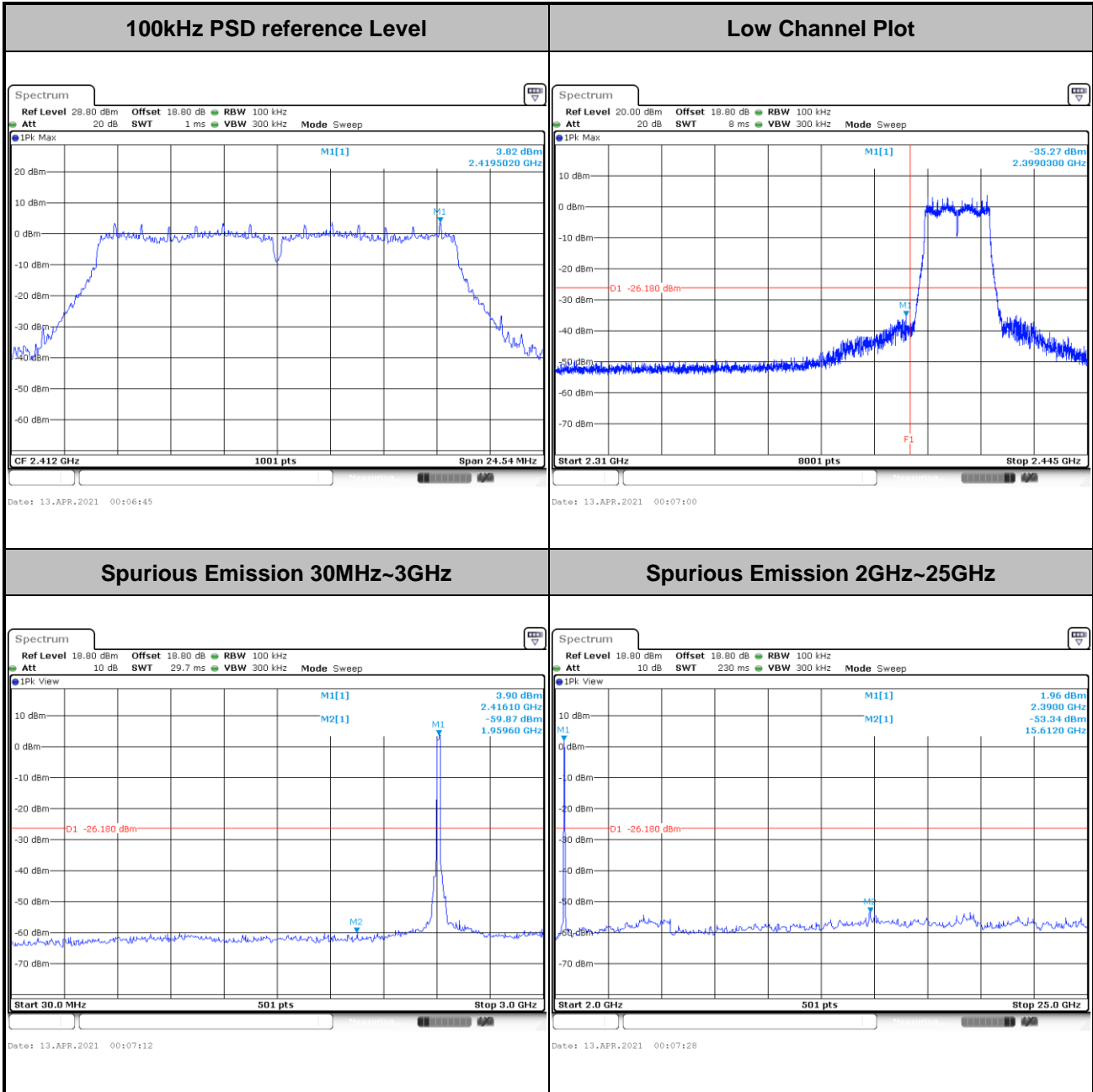


Test Mode :	802.11b	Test Channel :	11
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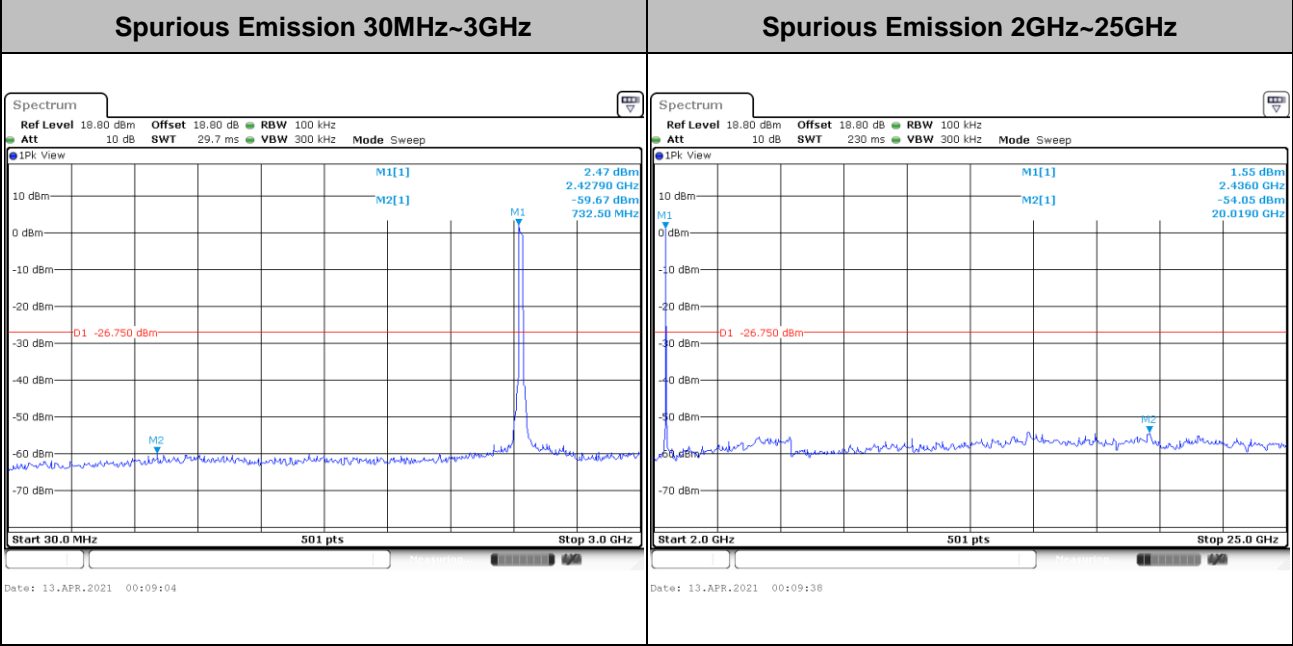
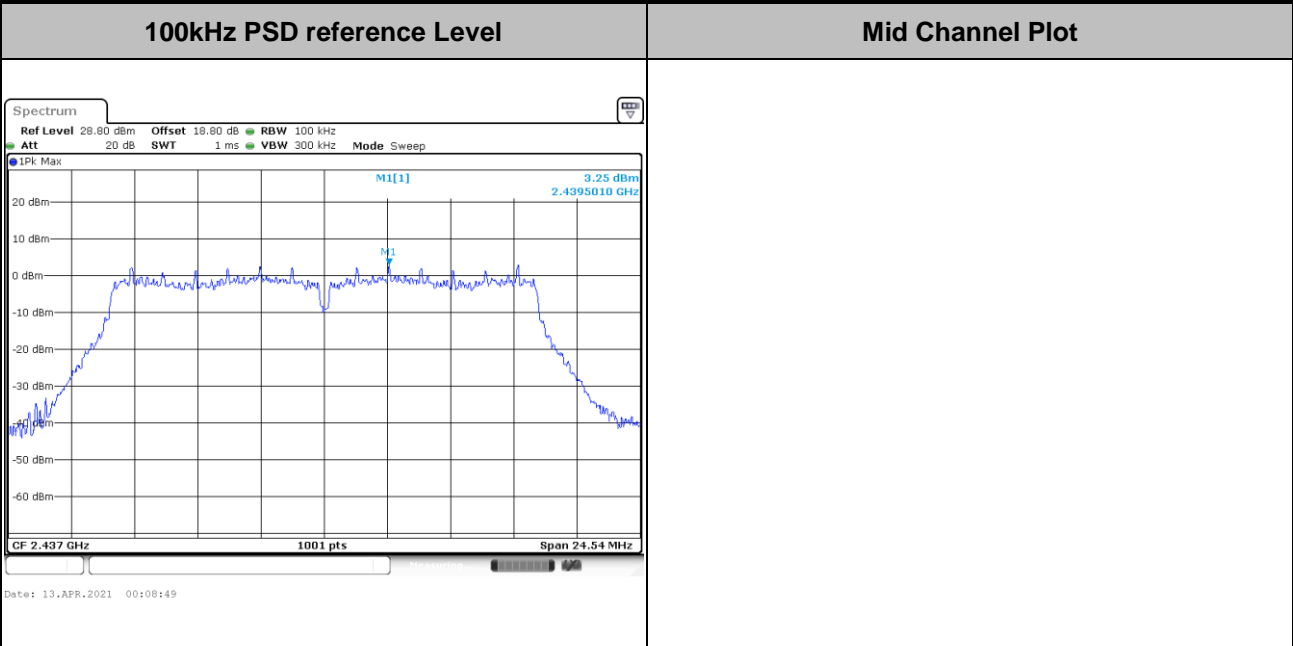


Test Mode :	802.11g	Test Channel :	01
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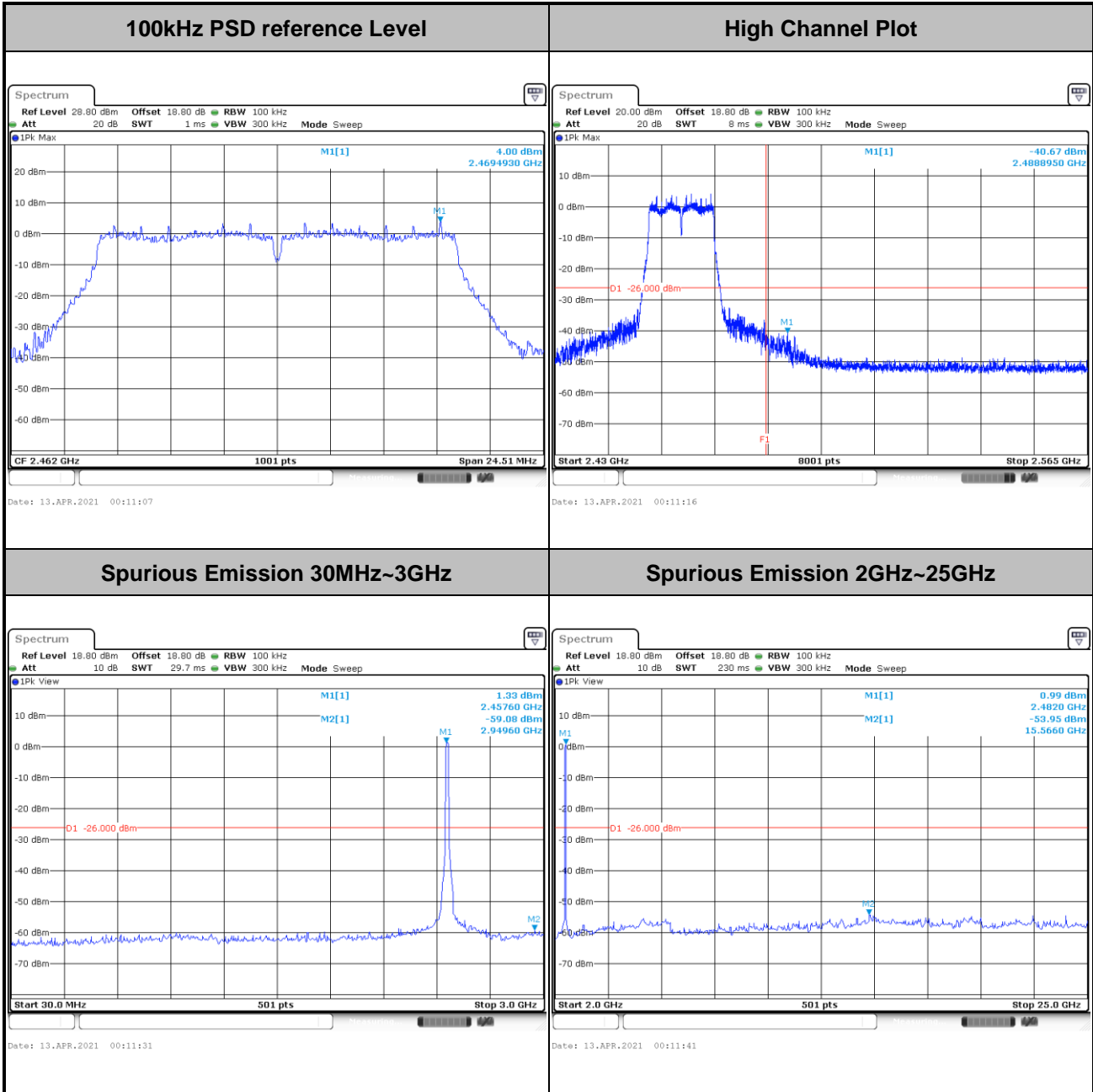


Test Mode :	802.11g	Test Channel :	06
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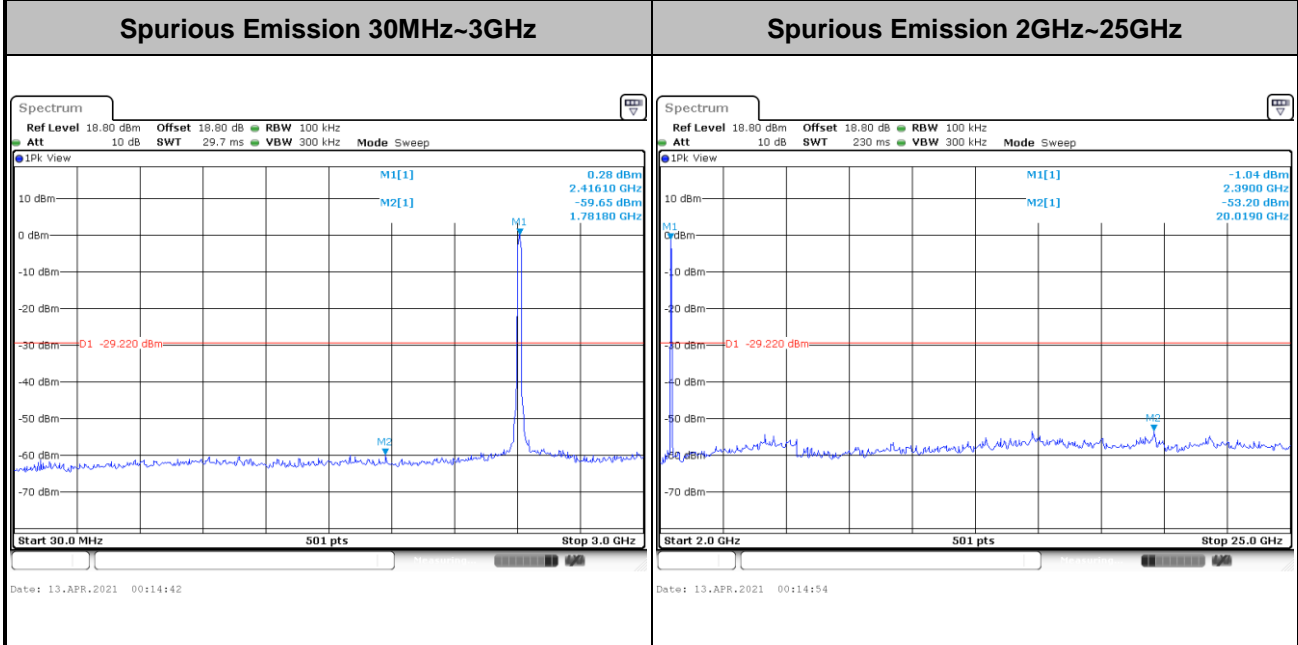
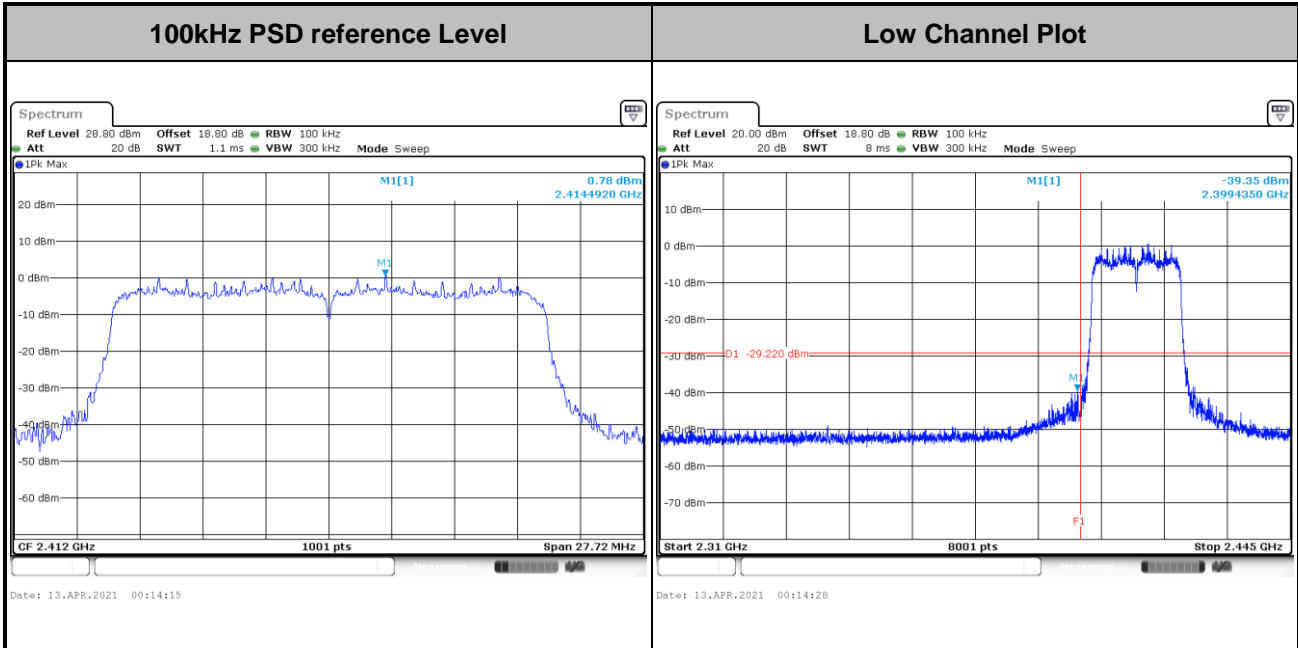


Test Mode :	802.11g	Test Channel :	11
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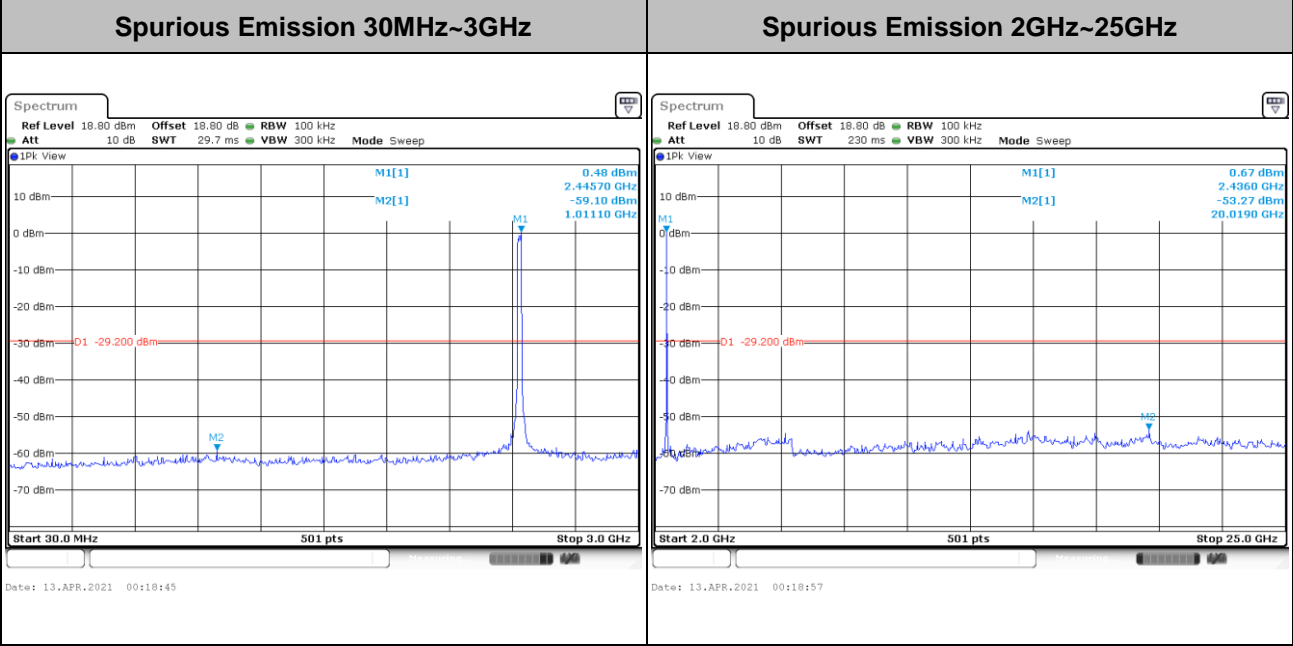
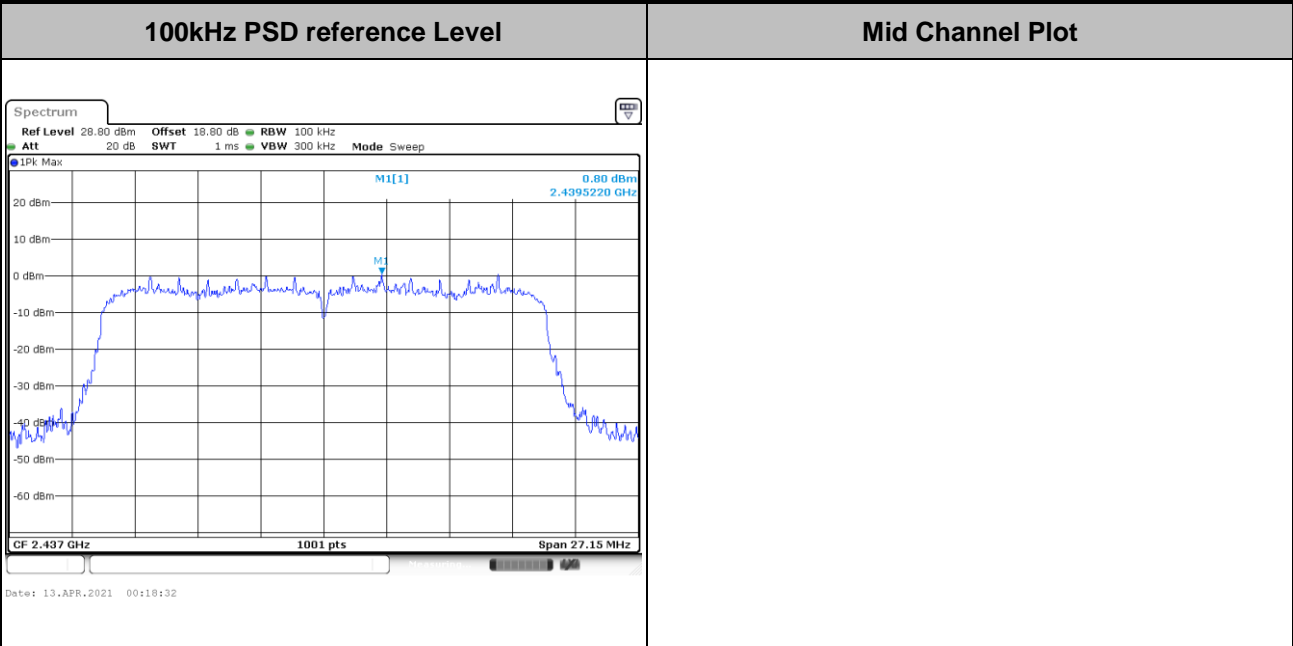


Test Mode :	802.11ax HE20	Test Channel :	01 Full RU
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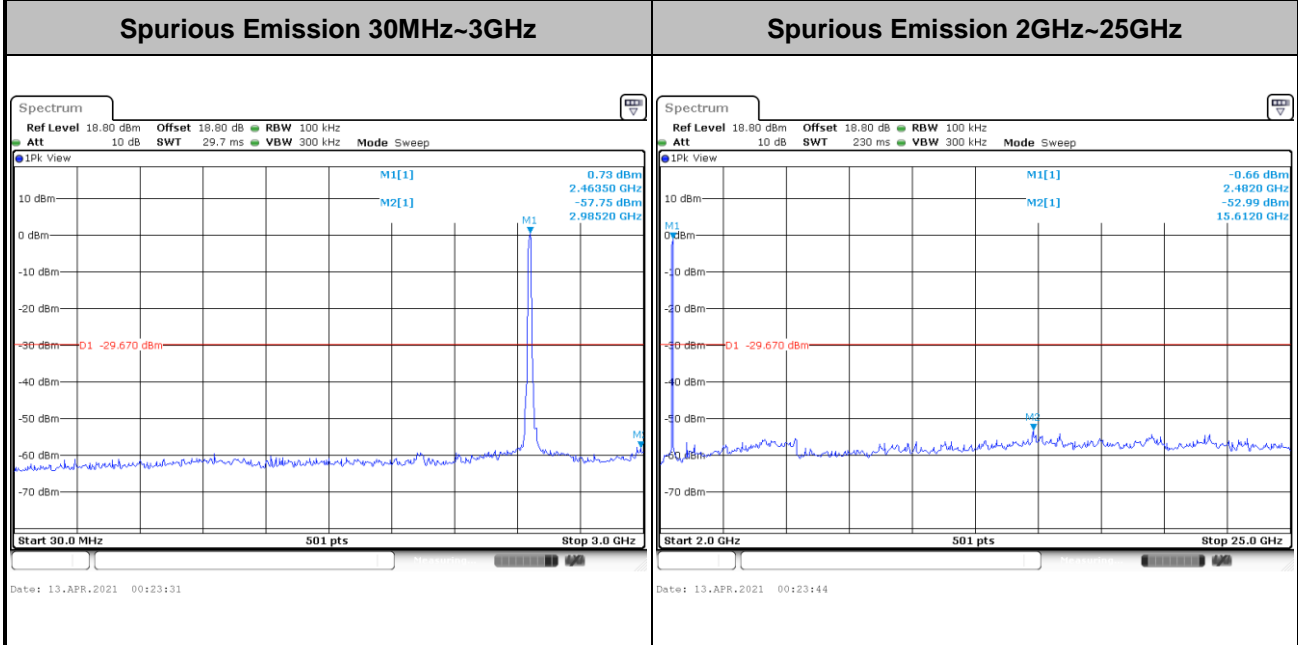
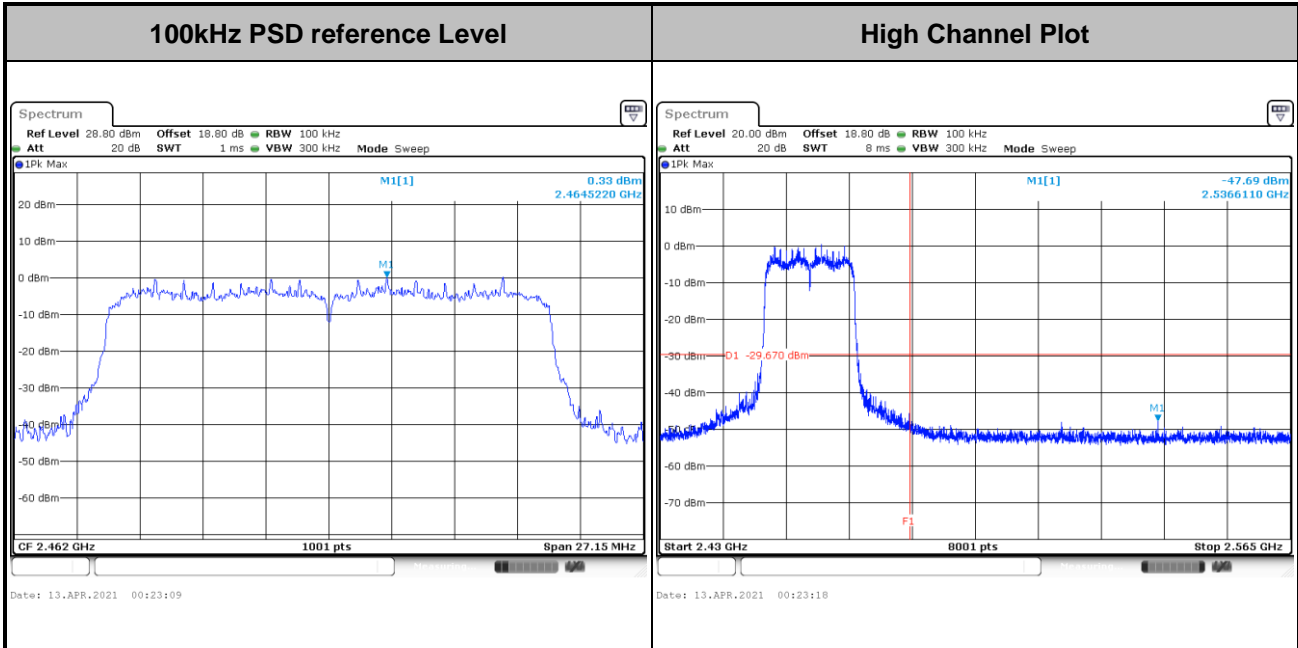


Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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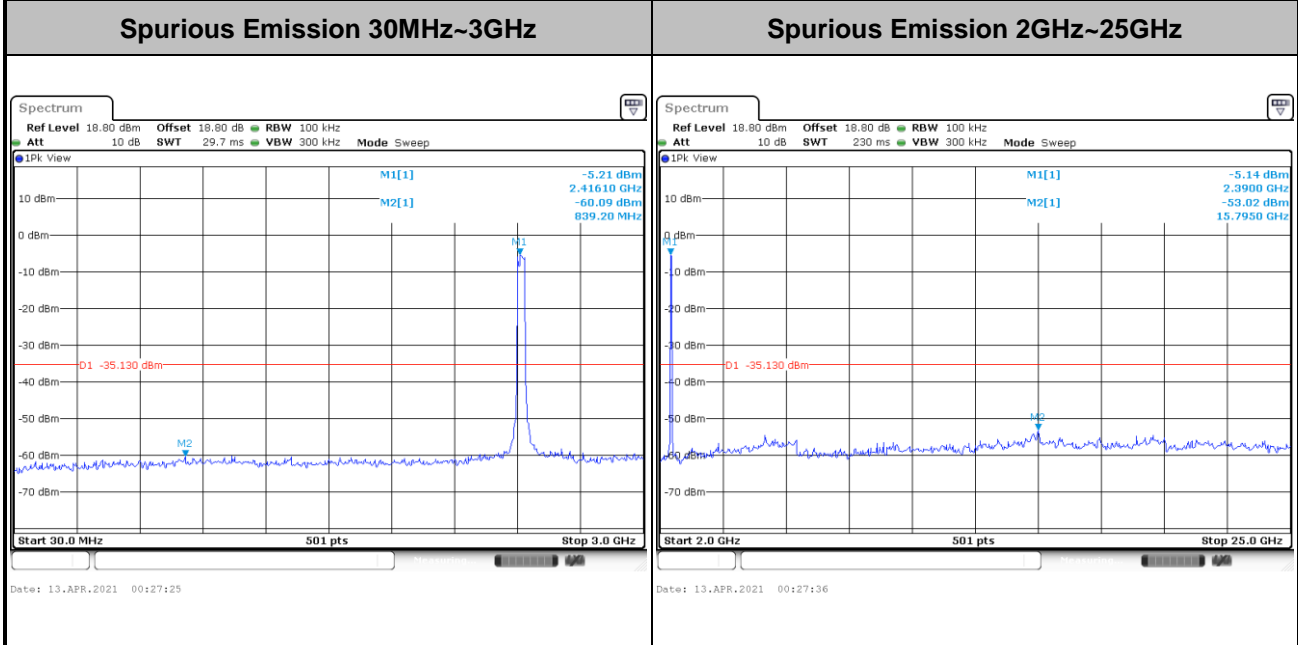
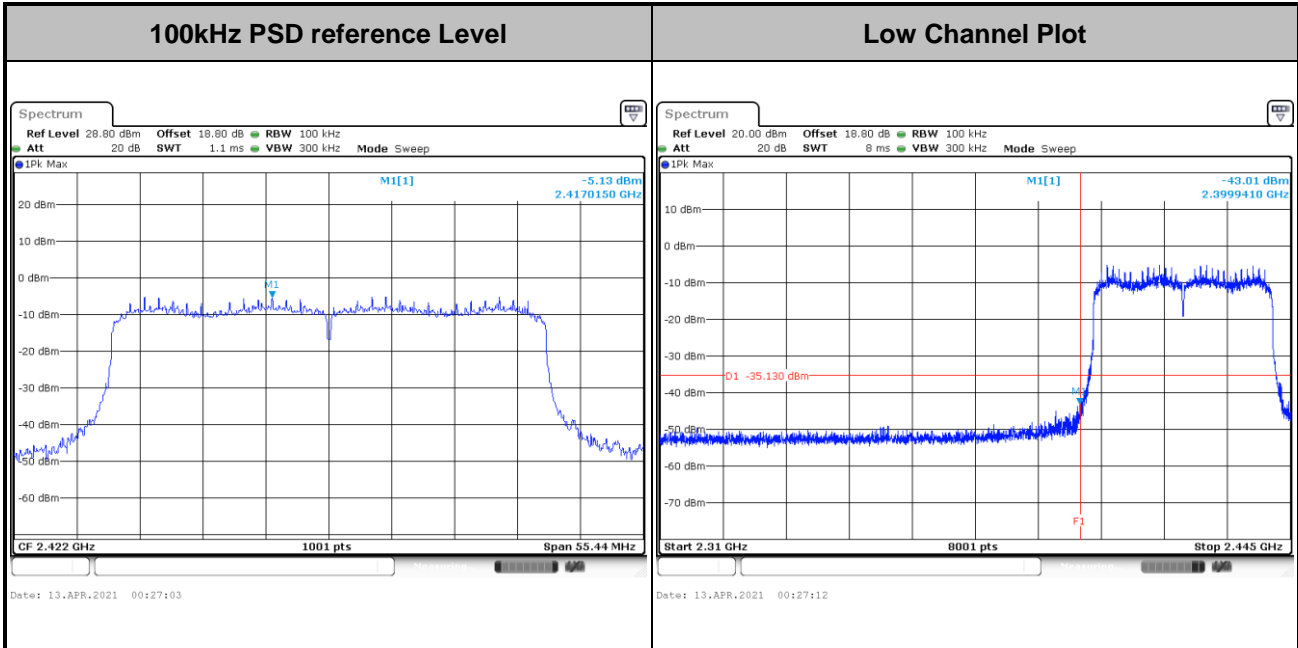


Test Mode :	802.11ax HE20	Test Channel :	11 Full RU
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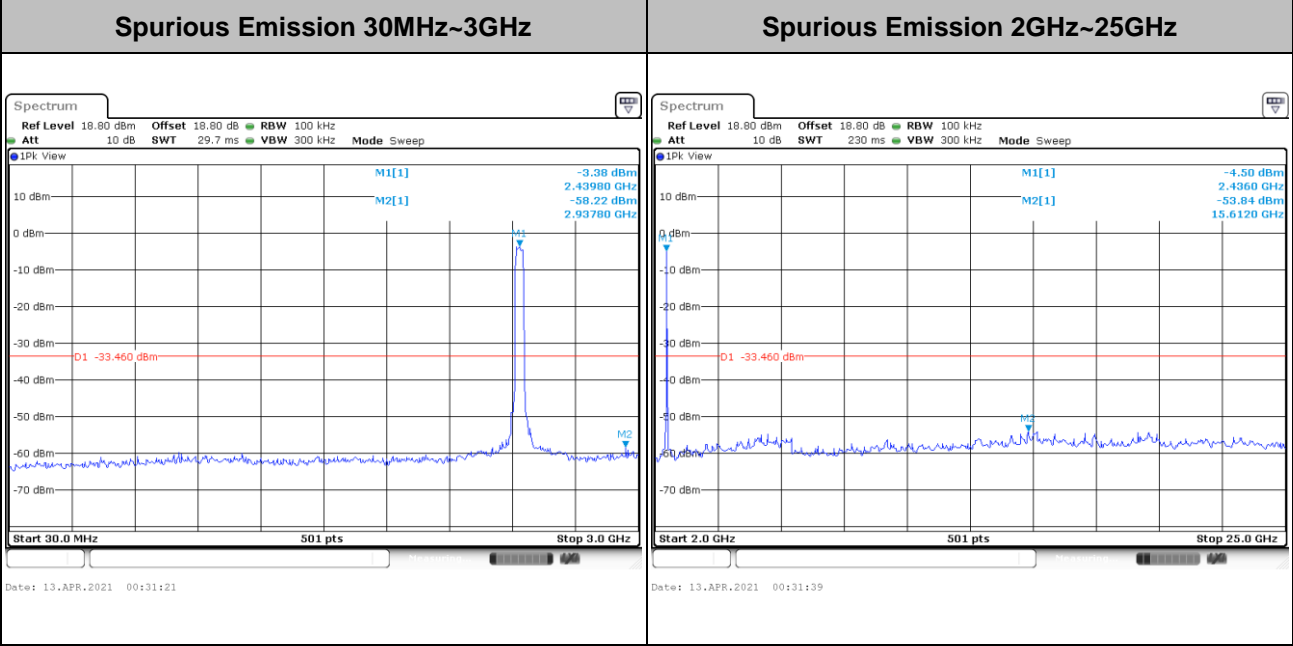
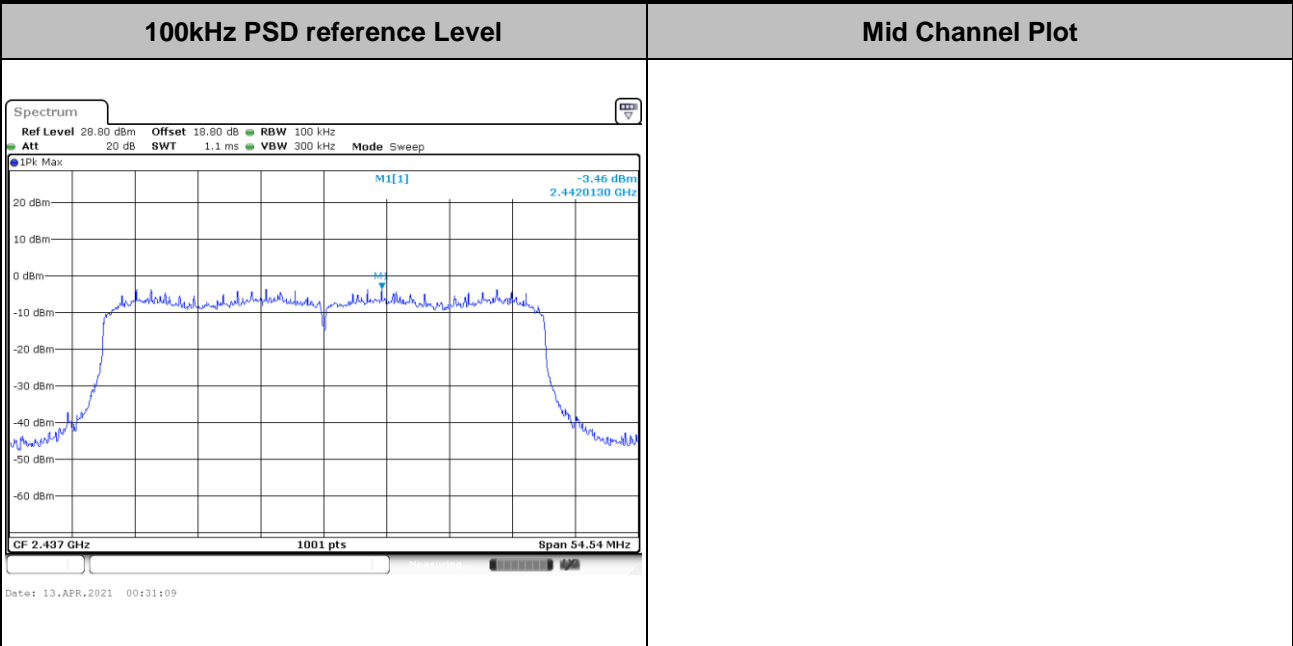


Test Mode :	802.11ax HE40	Test Channel :	03 Full RU
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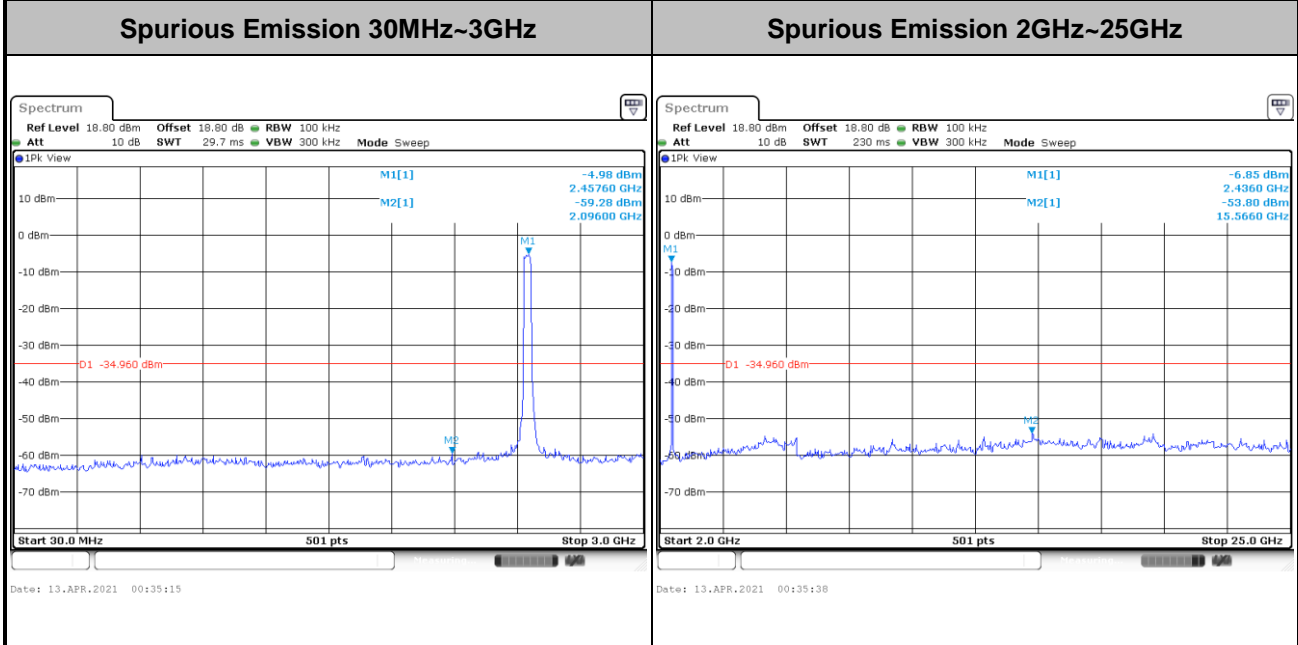
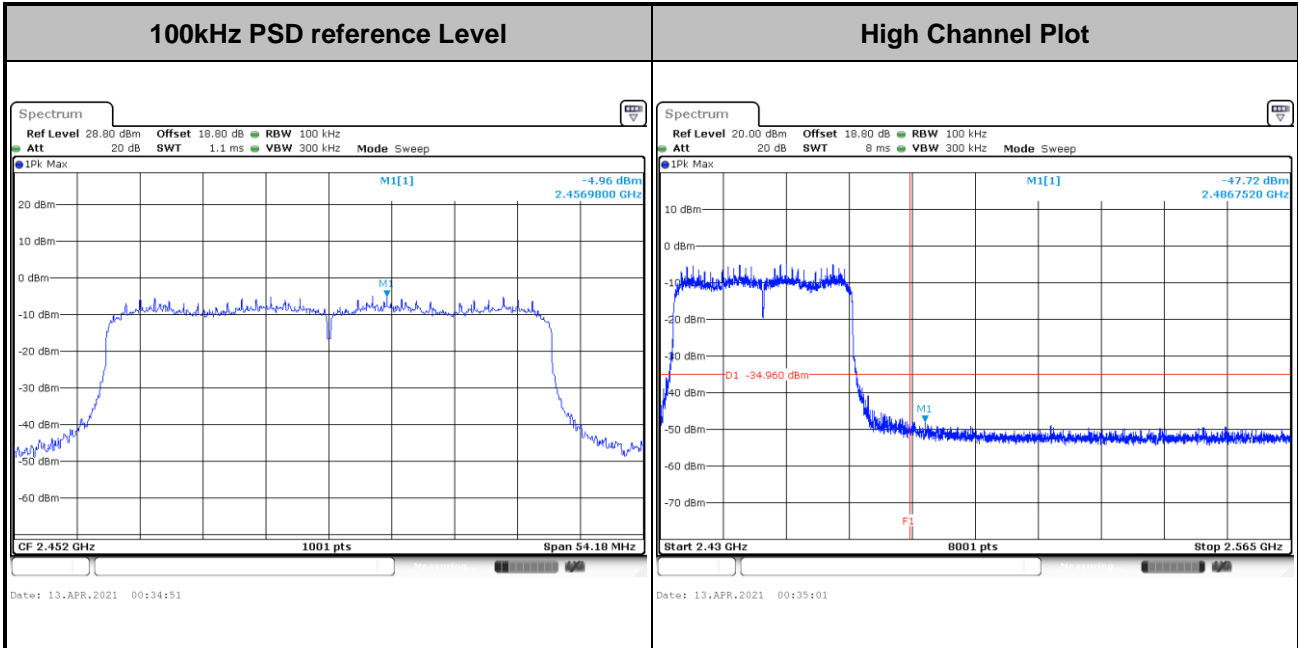


Test Mode :	802.11ax HE40	Test Channel :	06 Full RU
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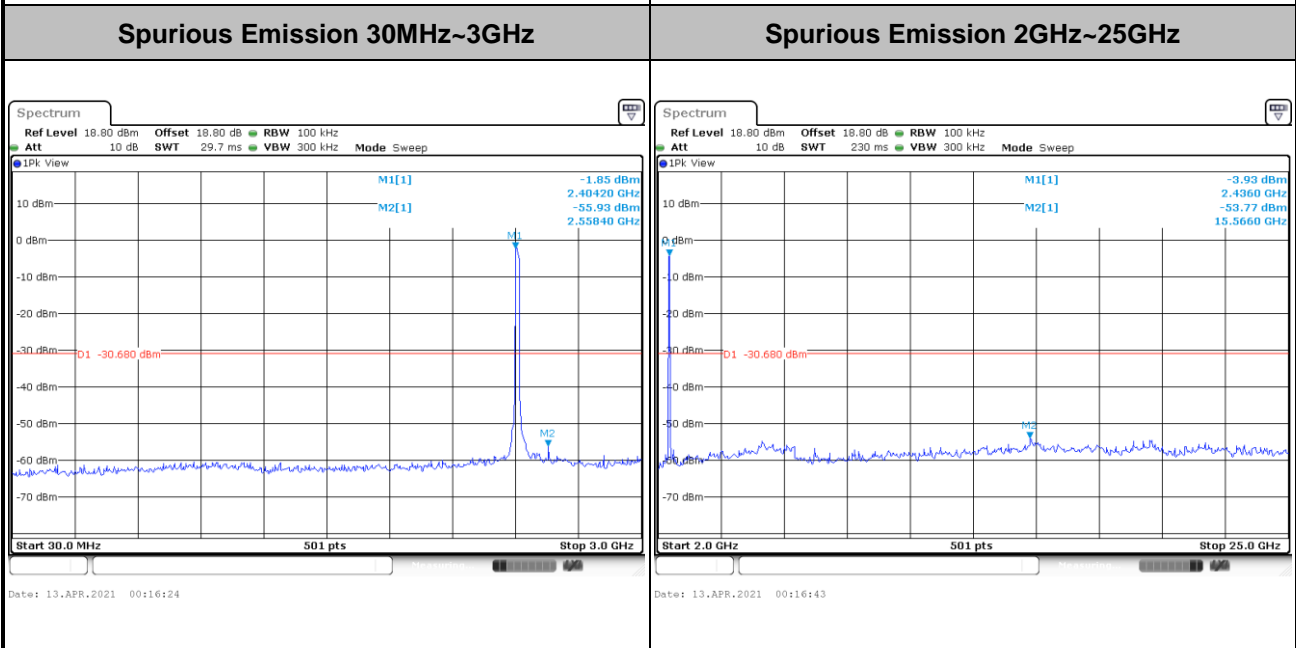
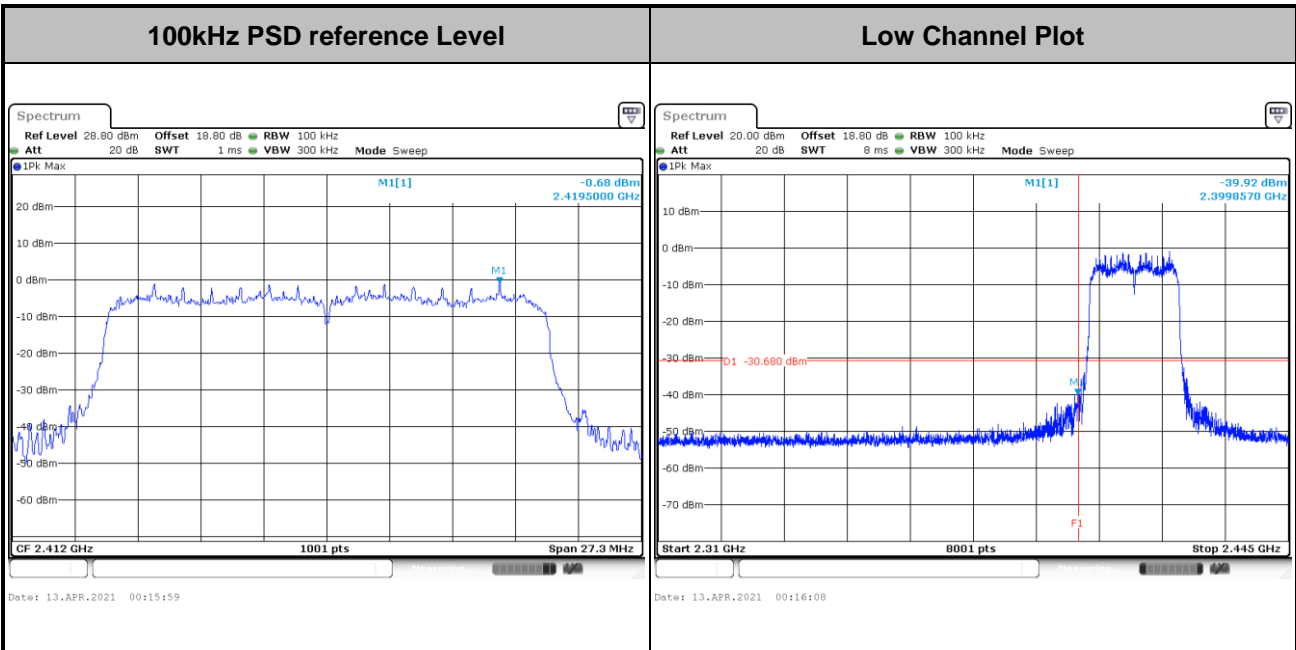
Test Mode :	802.11ax HE40	Test Channel :	09 Full RU
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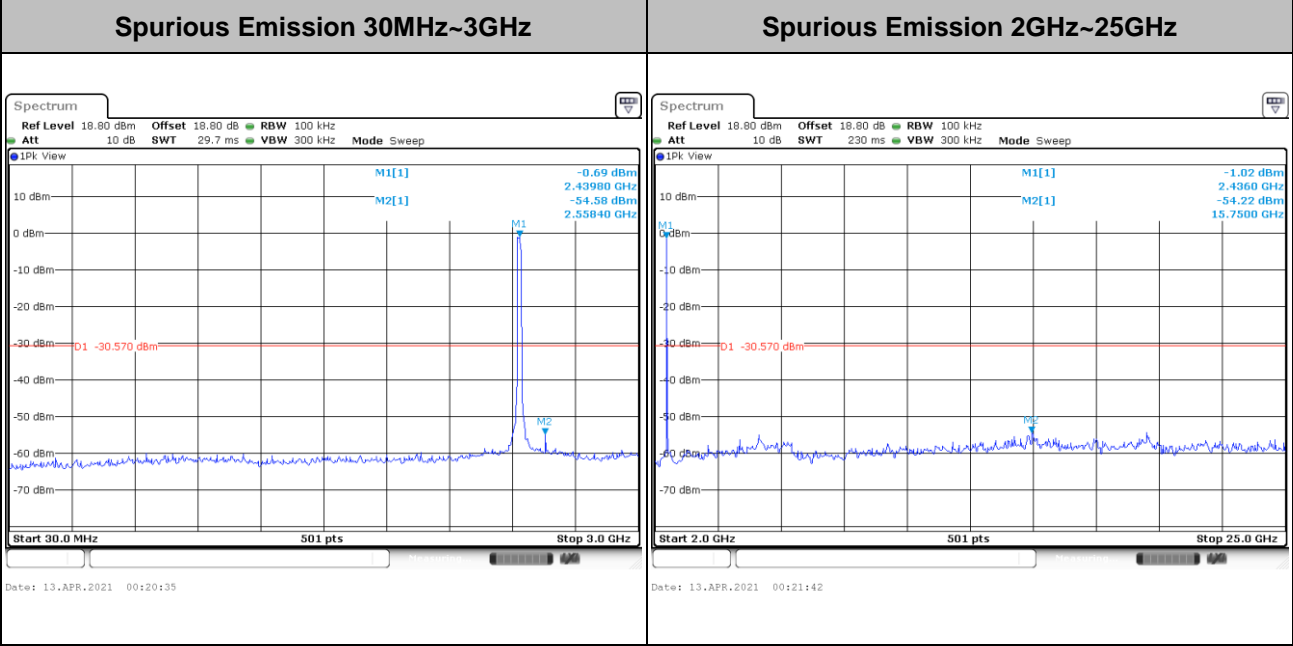
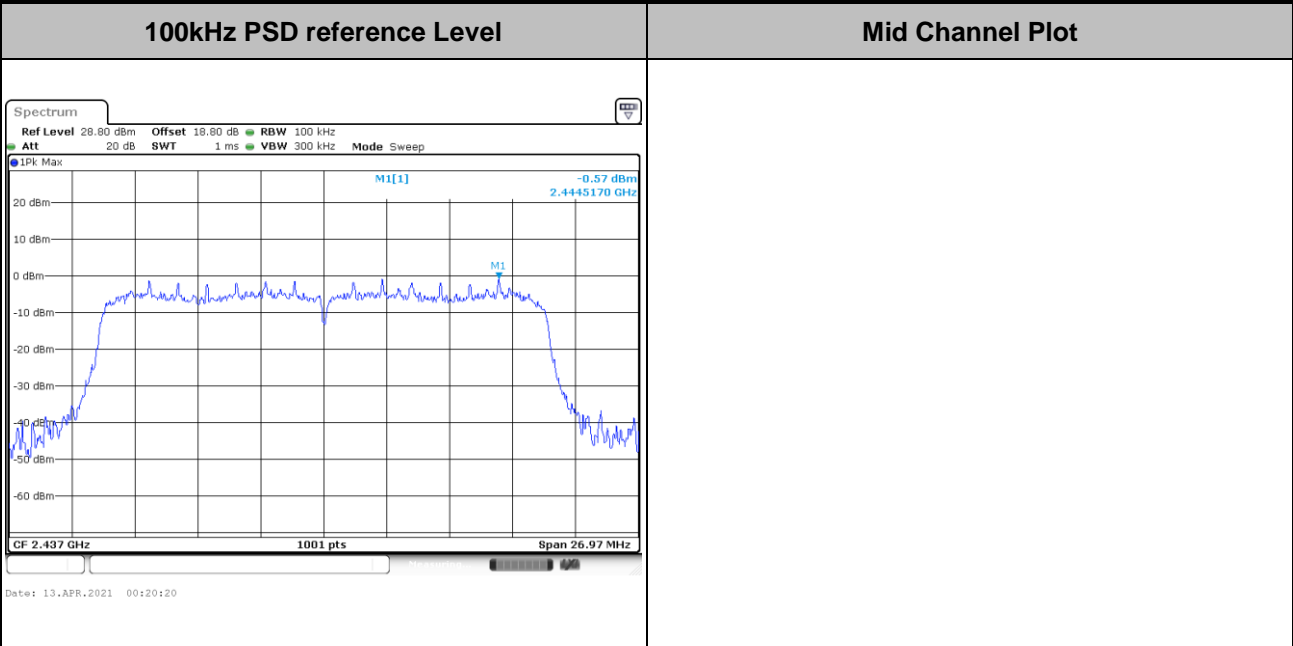
Number of TX = 2, Ant. 2 (Measured)

Test Mode :	802.11ax HE20	Test Channel :	01 Full RU
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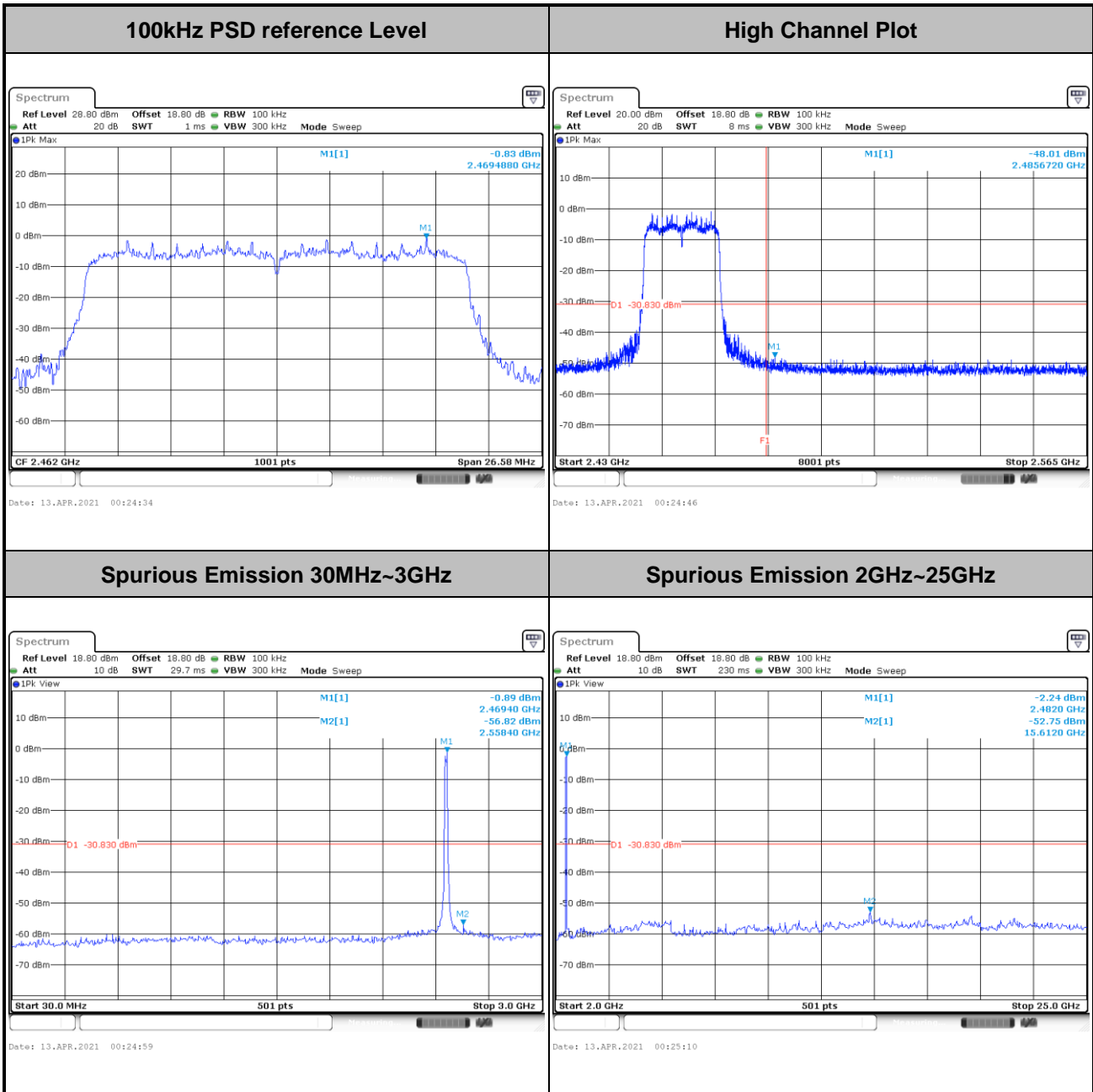


Test Mode :	802.11ax HE20	Test Channel :	06 Full RU
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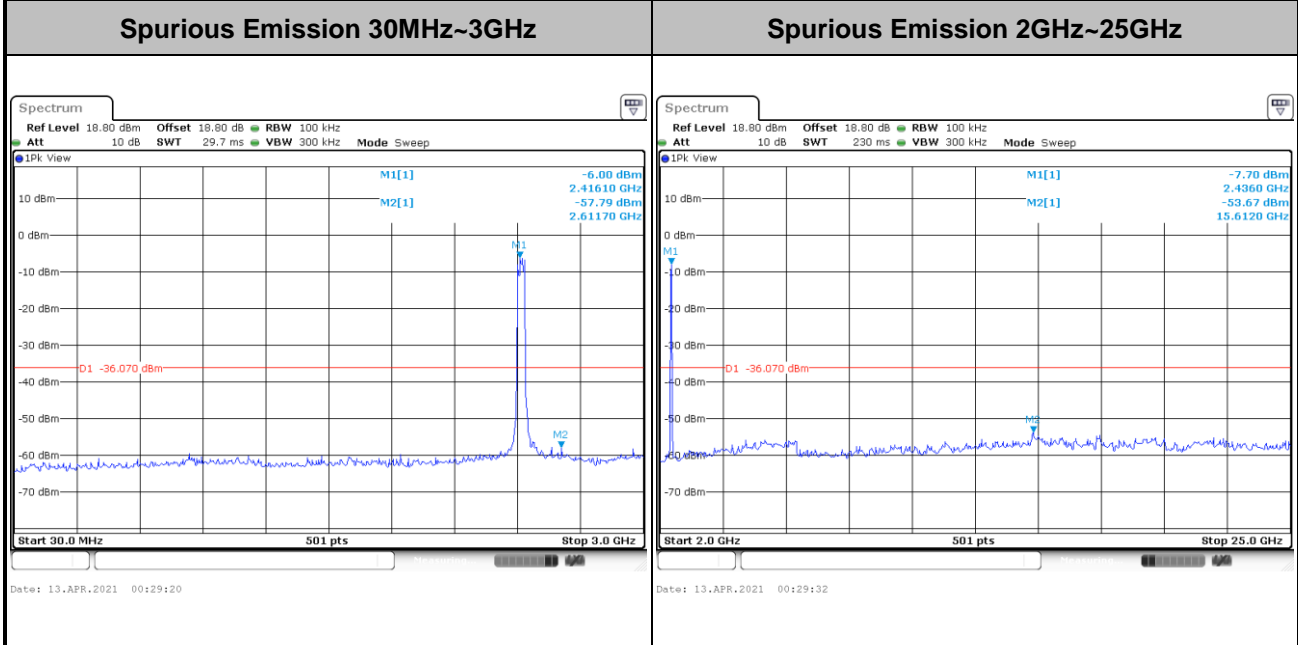
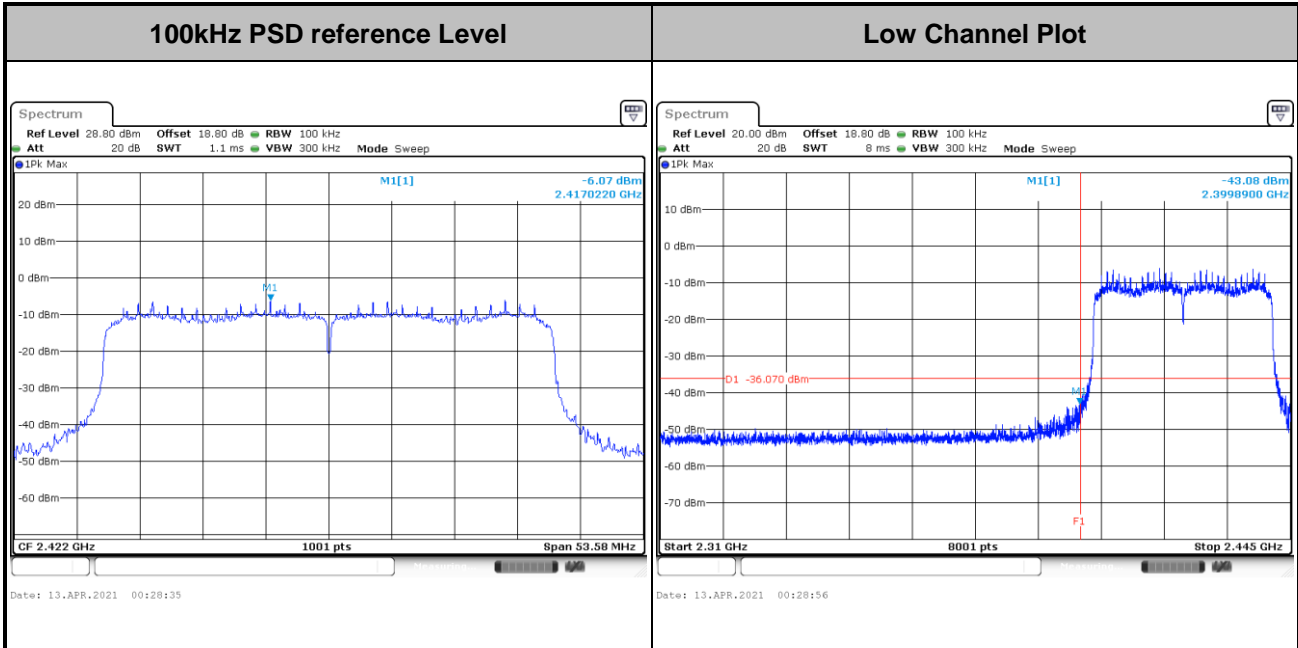


Test Mode :	802.11ax HE20	Test Channel :	11 Full RU
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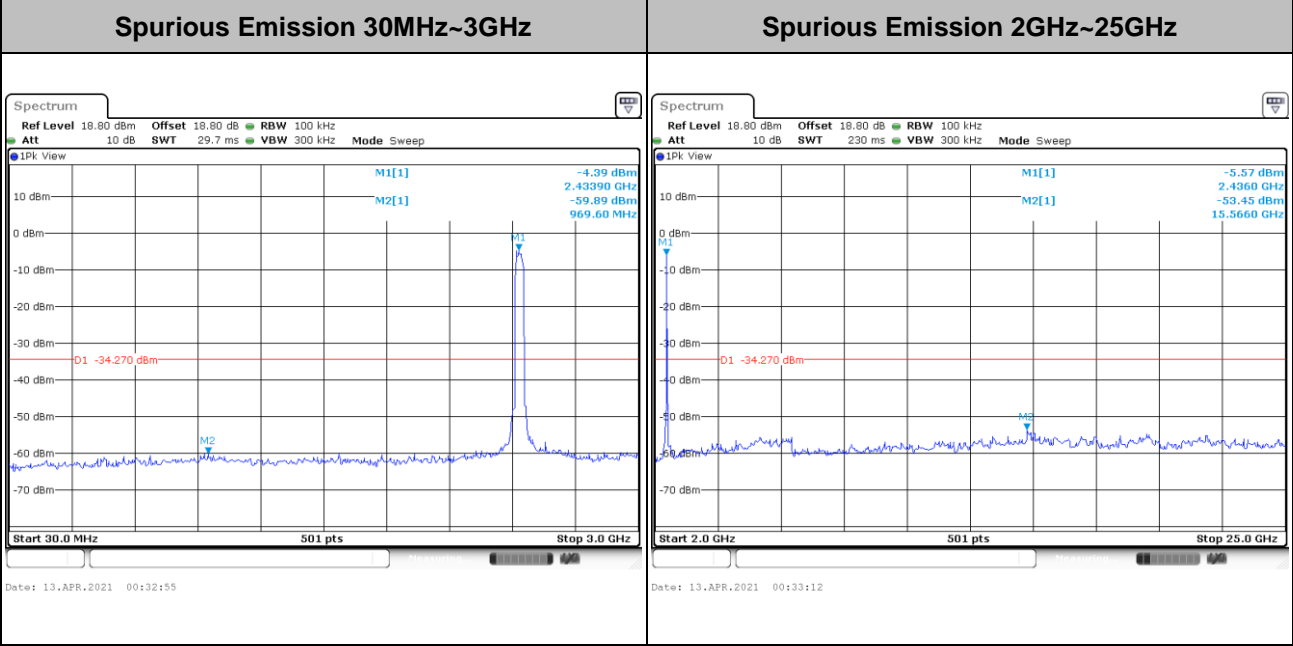
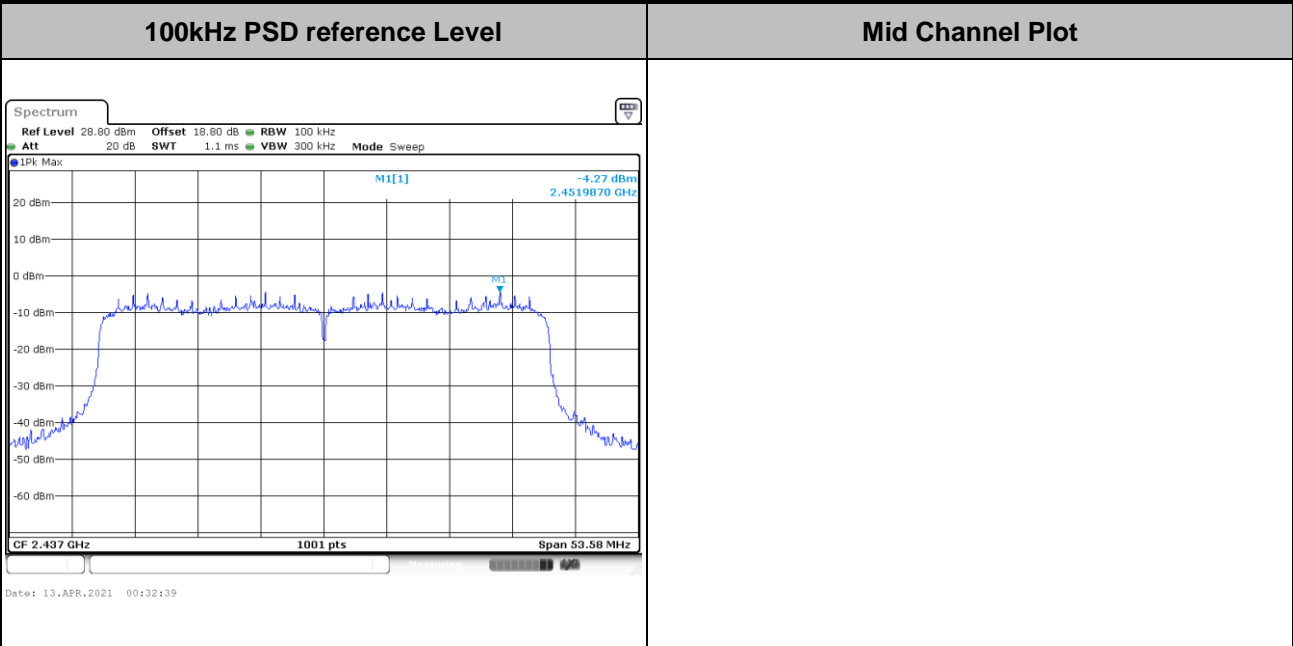


Test Mode :	802.11ax HE40	Test Channel :	03 Full RU
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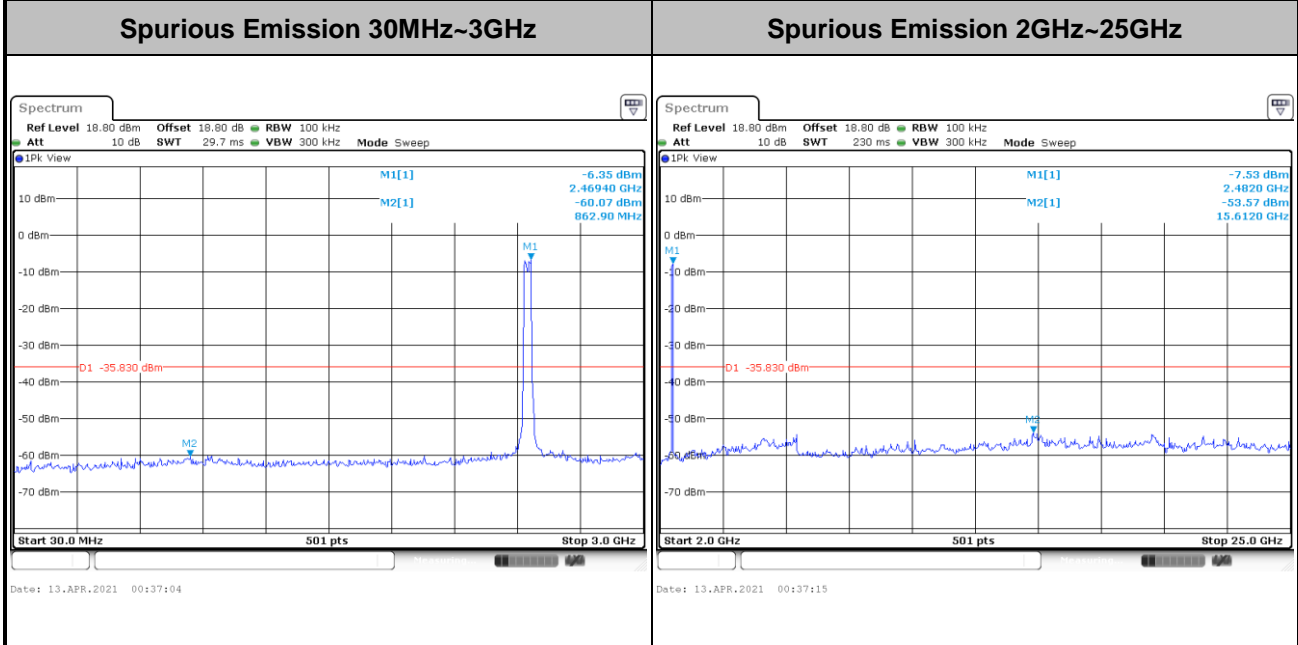
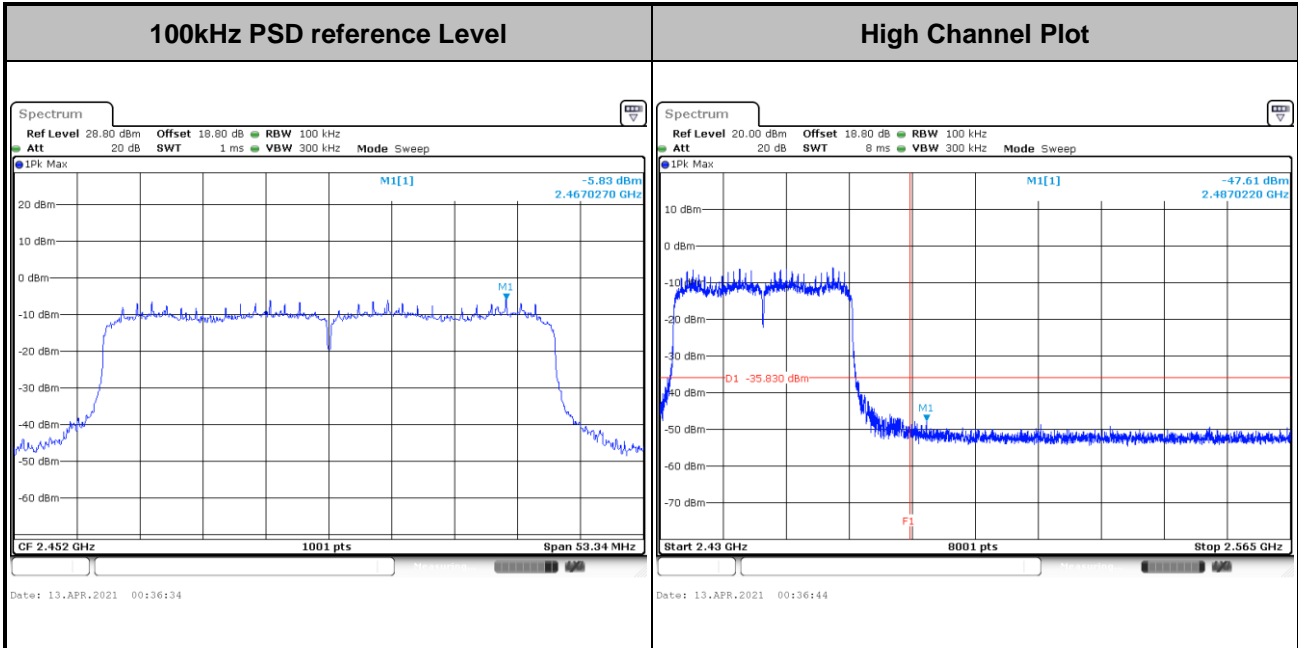


Test Mode :	802.11ax HE40	Test Channel :	06 Full RU
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Test Mode :	802.11ax HE40	Test Channel :	09 Full RU
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3.5 Radiated Band Edges and Spurious Emission Measurement

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.

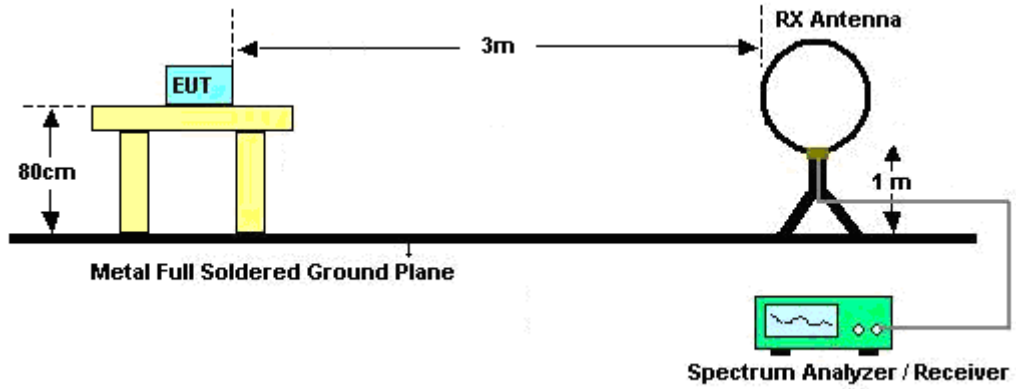


3.5.3 Test Procedures

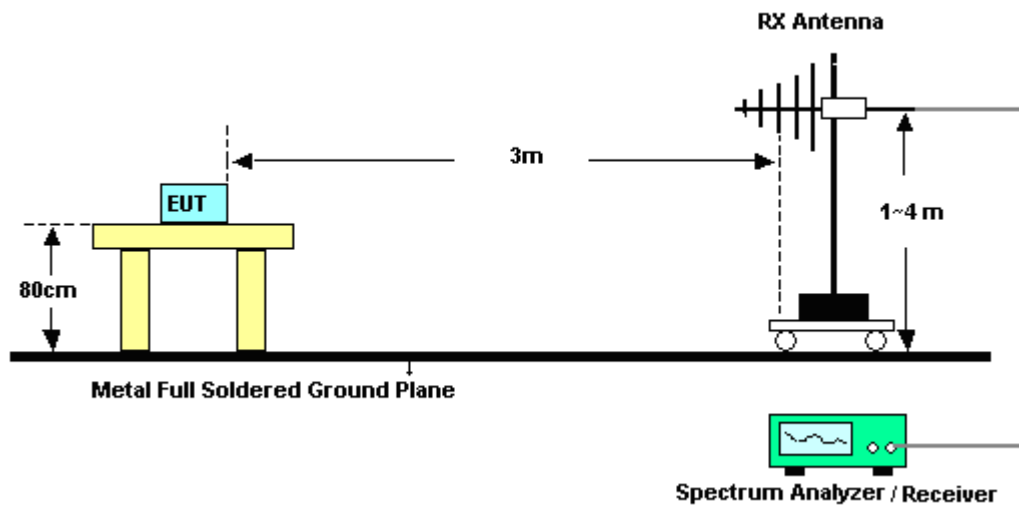
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz 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 1 GHz, 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 1 GHz, the emission level of the EUT in peak mode was 20 dB 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 = RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3 MHz for $f > 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

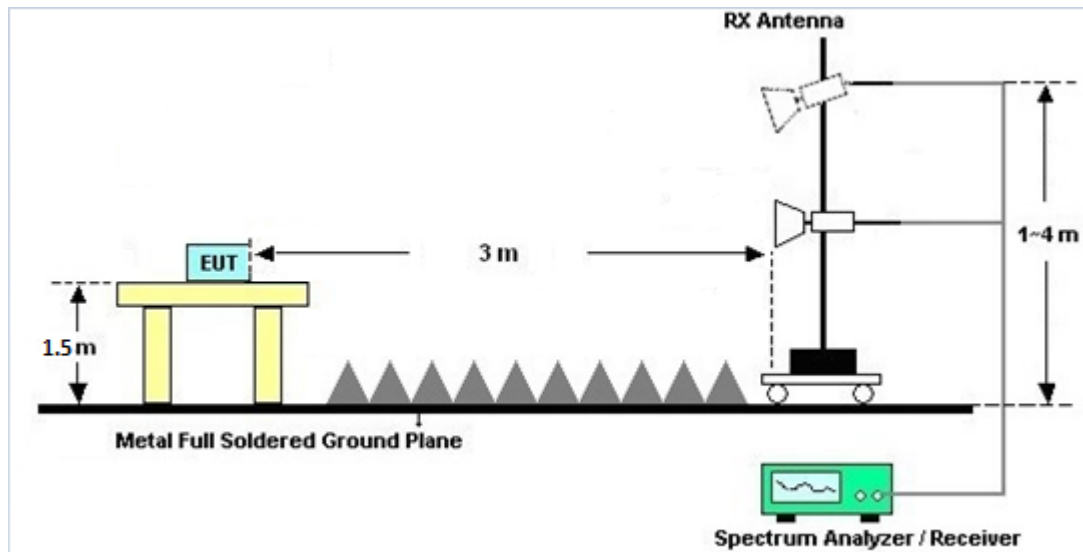
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated test 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 B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



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.

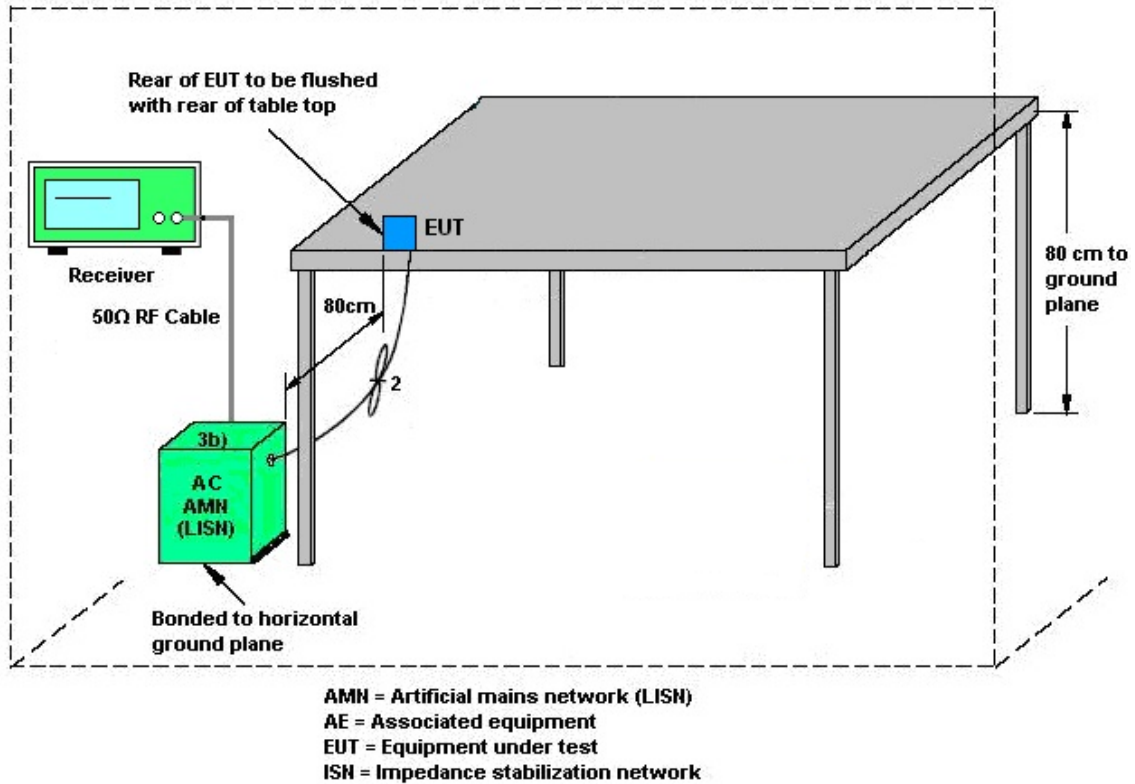
3.6.2 Measuring Instruments

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 shall 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 A.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. 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

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
	Ant. 1	Ant. 2	for	for	Limit	Limit
	(dBi)	(dBi)	Power	PSD	Reduction	Reduction
			(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	3.81	3.81	3.81	6.82	0.00	0.82

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



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	Jul. 14, 2020	Mar. 24, 2021~ Apr. 14, 2021	Jul. 13, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01 N-06	40103 & 07	30MHz~1GHz	Apr. 29, 2020	Mar. 24, 2021~ Apr. 14, 2021	Apr. 28, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-124 1	1GHz~18GHz	Jul. 15, 2020	Mar. 24, 2021~ Apr. 14, 2021	Jul. 14, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 576	18GHz~40GHz	May 22, 2020	Mar. 24, 2021~ Apr. 14, 2021	May 21, 2021	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Mar. 24, 2021~ Apr. 14, 2021	May 18, 2021	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2020	Mar. 24, 2021~ Apr. 14, 2021	Oct. 27, 2021	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	0600789	18GHz~40GHz	Jul. 31, 2020	Mar. 24, 2021~ Apr. 14, 2021	Jul. 30, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010B	MY602405 20	10Hz~44GHz	Dec. 02, 2020	Mar. 24, 2021~ Apr. 14, 2021	Dec. 01, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 11, 2021	Mar. 24, 2021~ Apr. 14, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz~40GHz	Mar. 11, 2021	Mar. 24, 2021~ Apr. 14, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30MHz~18GHz	Feb. 10, 2021	Mar. 24, 2021~ Apr. 14, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30MHz~18GHz	Feb. 10, 2021	Mar. 24, 2021~ Apr. 14, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/ 4	30MHz~18GHz	Feb. 10, 2021	Mar. 24, 2021~ Apr. 14, 2021	Feb. 09, 2022	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1m~4m	N/A	Mar. 24, 2021~ Apr. 14, 2021	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 24, 2021~ Apr. 14, 2021	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Mar. 24, 2021~ Apr. 14, 2021	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY532900 45	20MHz~8.4GHz	Jan. 13, 2021	Mar. 24, 2021~ Apr. 14, 2021	Jan. 12, 2022	Radiation (03CH13-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN2	3GHz High Pass Filter	Jul. 13, 2020	Mar. 24, 2021~ Apr. 14, 2021	Jul. 12, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872. 5-6750-18000 -40ST	SN5	6.75GHz High Pass Filter	Mar. 11, 2021	Mar. 24, 2021~ Apr. 14, 2021	Mar. 10, 2022	Radiation (03CH13-HY)
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 16, 2020	Mar. 24, 2021~ Apr. 14, 2021	Dec. 15, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN12	1.53GHz Low Pass Filter	Sep. 15, 2020	Mar. 24, 2021~ Apr. 14, 2021	Sep. 14, 2021	Radiation (03CH13-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, 2021	Mar. 19, 2021~ Apr. 13, 2021	Mar. 01, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	16I00054S NO10	10MHz~6GHz	Dec. 09, 2020	Mar. 19, 2021~ Apr. 13, 2021	Dec. 08, 2021	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz ~ 40GHz	Jul. 22, 2020	Mar. 19, 2021~ Apr. 13, 2021	Jul. 21, 2021	Conducted (TH05-HY)
Switch Control Manframe	EM Electronics	EMSW18	SW107090 3	N/A	Aug. 16, 2020	Mar. 19, 2021~ Apr. 13, 2021	Aug. 15, 2021	Conducted (TH05-HY)
AC Power Source	ACPOWER	AFC-11003G	F3170400 33	N/A	N/A	Apr. 27, 2021	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 27, 2021	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBE CK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Nov. 02, 2020	Apr. 27, 2021	Nov. 01, 2021	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	N/A	Apr. 27, 2021	N/A	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Feb. 01, 2021	Apr. 27, 2021	Jan. 31, 2022	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Sep. 11, 2020	Apr. 27, 2021	Sep. 10, 2021	Conduction (CO07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.2
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.6
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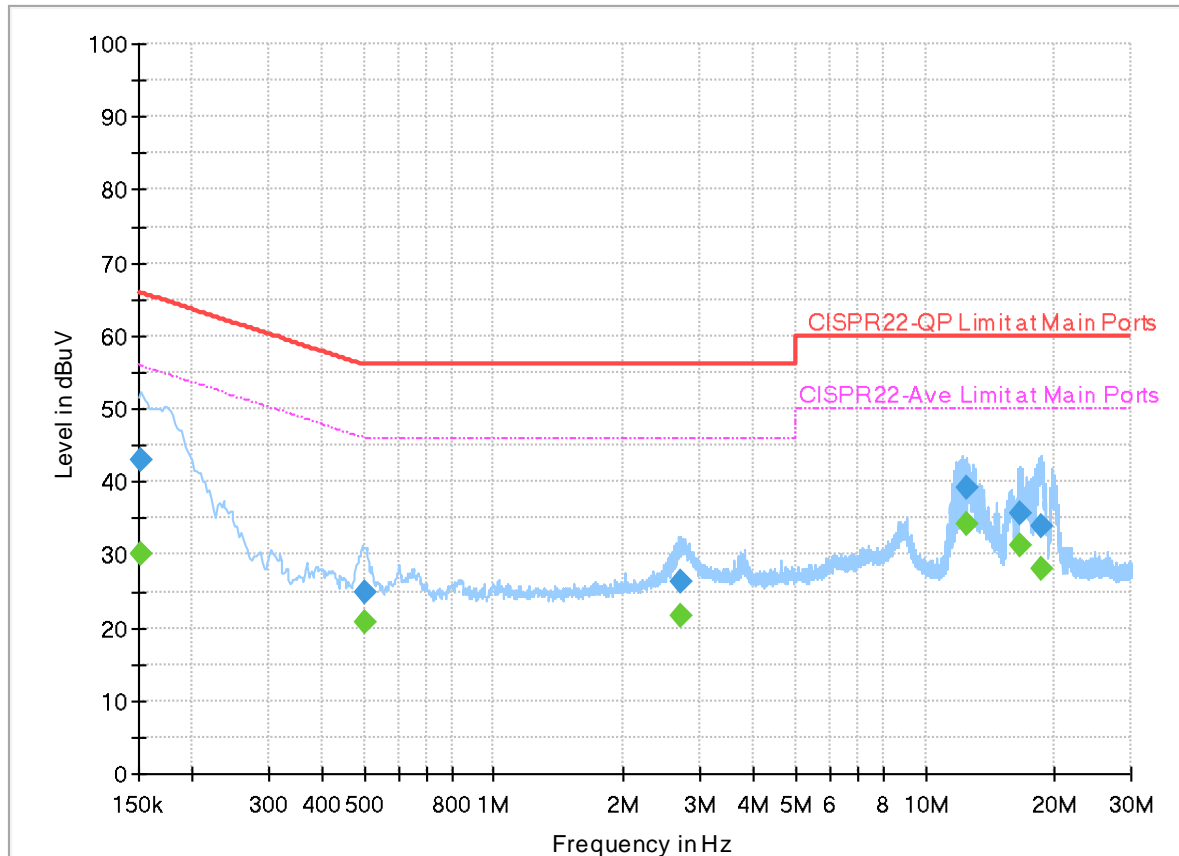
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~26°C
		Relative Humidity :	40~50%

EUT Information

Report NO : 0D2423
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



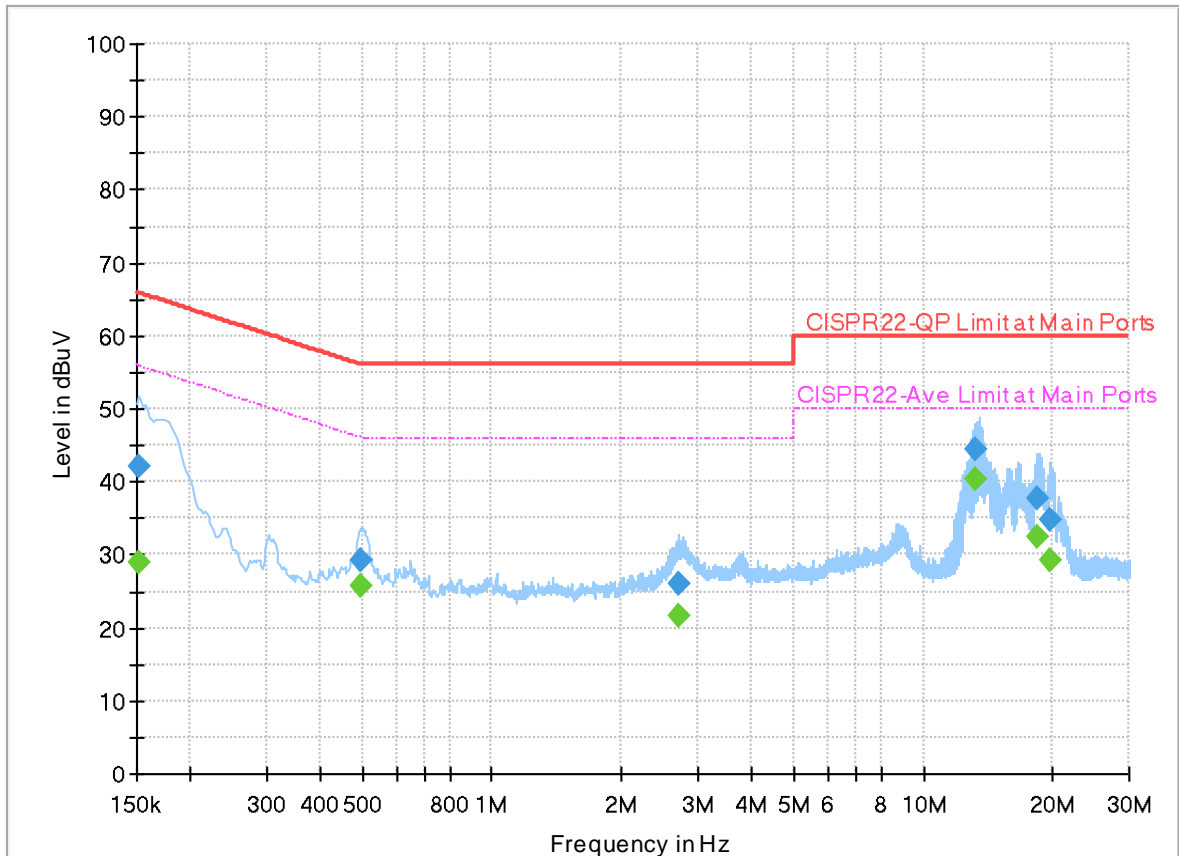
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.20	55.88	25.68	L1	OFF	20.0
0.152250	43.10	---	65.88	22.78	L1	OFF	20.0
0.501000	---	20.89	46.00	25.11	L1	OFF	20.0
0.501000	24.80	---	56.00	31.20	L1	OFF	20.0
2.719500	---	21.73	46.00	24.27	L1	OFF	20.1
2.719500	26.27	---	56.00	29.73	L1	OFF	20.1
12.491250	---	34.11	50.00	15.89	L1	OFF	20.2
12.491250	39.22	---	60.00	20.78	L1	OFF	20.2
16.599750	---	31.27	50.00	18.73	L1	OFF	20.2
16.599750	35.77	---	60.00	24.23	L1	OFF	20.2
18.577500	---	28.03	50.00	21.97	L1	OFF	20.2
18.577500	33.94	---	60.00	26.06	L1	OFF	20.2

EUT Information

Report NO : 0D2423
 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)
0.152250	---	28.98	55.88	26.90	N	OFF	20.0
0.152250	42.14	---	65.88	23.74	N	OFF	20.0
0.494250	---	25.79	46.10	20.31	N	OFF	20.0
0.494250	29.15	---	56.10	26.95	N	OFF	20.0
2.717250	---	21.69	46.00	24.31	N	OFF	20.1
2.717250	26.08	---	56.00	29.92	N	OFF	20.1
13.240500	---	40.42	50.00	9.58	N	OFF	20.2
13.240500	44.44	---	60.00	15.56	N	OFF	20.2
18.462750	---	32.39	50.00	17.61	N	OFF	20.3
18.462750	37.75	---	60.00	22.25	N	OFF	20.3
19.770000	---	29.33	50.00	20.67	N	OFF	20.3
19.770000	34.78	---	60.00	25.22	N	OFF	20.3



Appendix B. Radiated Spurious Emission

Test Engineer :	Daniel Lee, Jacky Hung and Wilson Wu	Temperature :	20~25°C
		Relative Humidity :	50~60%

<P1044247>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	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		2383.92	55.32	-18.68	74	41.42	27.63	14.11	27.84	330	102	P	H	
		2386.125	45.51	-8.49	54	31.6	27.63	14.12	27.84	330	102	A	H	
	*	2412	102.43	-	-	88.55	27.58	14.14	27.84	330	102	P	H	
	*	2412	99.36	-	-	85.48	27.58	14.14	27.84	330	102	A	H	
													H	
														H
			2387.7	57.15	-16.85	74	43.25	27.62	14.12	27.84	298	104	P	V
			2383.815	48.44	-5.56	54	34.54	27.63	14.11	27.84	298	104	A	V
	*		2412	107.66	-	-	93.78	27.58	14.14	27.84	298	104	P	V
	*		2412	104.6	-	-	90.72	27.58	14.14	27.84	298	104	A	V
														V
														V



802.11b CH 06 2437MHz		2350.74	54.85	-19.15	74	40.92	27.7	14.08	27.85	365	101	P	H
		2389.1	43.84	-10.16	54	29.94	27.62	14.12	27.84	365	101	A	H
	*	2437	102.74	-	-	88.88	27.53	14.16	27.83	365	101	P	H
	*	2437	99.64	-	-	85.78	27.53	14.16	27.83	365	101	A	H
		2493.52	54.56	-19.44	74	40.68	27.5	14.2	27.82	365	101	P	H
		2495.05	44.14	-9.86	54	30.25	27.5	14.21	27.82	365	101	A	H
		2388.26	54.85	-19.15	74	40.95	27.62	14.12	27.84	369	100	P	V
		2389.1	44.75	-9.25	54	30.85	27.62	14.12	27.84	369	100	A	V
	*	2437	108.62	-	-	94.76	27.53	14.16	27.83	369	100	P	V
	*	2437	105.55	-	-	91.69	27.53	14.16	27.83	369	100	A	V
		2491.81	55.53	-18.47	74	41.65	27.5	14.2	27.82	369	100	P	V
		2491.36	45.45	-8.55	54	31.57	27.5	14.2	27.82	369	100	A	V
802.11b CH 11 2462MHz	*	2462	102.2	-	-	88.35	27.5	14.18	27.83	358	103	P	H
	*	2462	99.18	-	-	85.33	27.5	14.18	27.83	358	103	A	H
		2486.84	56.14	-17.86	74	42.26	27.5	14.2	27.82	358	103	P	H
		2487.72	47.17	-6.83	54	33.29	27.5	14.2	27.82	358	103	A	H
													H
													H
	*	2462	108.19	-	-	94.34	27.5	14.18	27.83	283	105	P	V
	*	2462	105.08	-	-	91.23	27.5	14.18	27.83	283	105	A	V
		2486.92	58.29	-15.71	74	44.41	27.5	14.2	27.82	283	105	P	V
		2487.76	51.65	-2.35	54	37.77	27.5	14.2	27.82	283	105	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	39.51	-34.49	74	59.22	31.15	6.59	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	41.29	-32.71	74	61	31.15	6.59	57.45	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	41.02	-32.98	74	60.36	31.2	6.8	57.34	100	0	P	H	
		7311	45.19	-28.81	74	56.77	36.78	8.73	57.09	100	0	P	H	
													H	
													H	
			4874	41.35	-32.65	74	60.69	31.2	6.8	57.34	100	0	P	V
			7311	44.92	-29.08	74	56.5	36.78	8.73	57.09	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	40.54	-33.46	74	59.45	31.3	7.02	57.23	100	0	P	H	
		7386	44.03	-29.97	74	55.95	36.56	8.72	57.2	100	0	P	H	
													H	
													H	
			4924	41.82	-32.18	74	60.73	31.3	7.02	57.23	100	0	P	V
			7386	44.77	-29.23	74	56.69	36.56	8.72	57.2	100	0	P	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		2386.965	60.87	-13.13	74	46.96	27.63	14.12	27.84	330	101	P	H	
		2390	46.31	-7.69	54	32.41	27.62	14.12	27.84	330	101	A	H	
	*	2412	102.72	-	-	88.84	27.58	14.14	27.84	330	101	P	H	
	*	2412	95.08	-	-	81.2	27.58	14.14	27.84	330	101	A	H	
													H	
														H
			2388.54	64.67	-9.33	74	50.77	27.62	14.12	27.84	296	109	P	V
			2390	49.25	-4.75	54	35.35	27.62	14.12	27.84	296	109	A	V
	*		2412	108.04	-	-	94.16	27.58	14.14	27.84	296	109	P	V
	*		2412	99.92	-	-	86.04	27.58	14.14	27.84	296	109	A	V
														V
														V
802.11g CH 06 2437MHz		2316.02	55.05	-18.95	74	41.09	27.77	14.05	27.86	368	99	P	H	
		2389.94	43.59	-10.41	54	29.69	27.62	14.12	27.84	368	99	A	H	
	*	2437	102.28	-	-	88.42	27.53	14.16	27.83	368	99	P	H	
	*	2437	94.61	-	-	80.75	27.53	14.16	27.83	368	99	A	H	
			2487.13	54.34	-19.66	74	40.46	27.5	14.2	27.82	368	99	P	H
			2483.53	43.67	-10.33	54	29.79	27.5	14.2	27.82	368	99	A	H
			2379.86	54.78	-19.22	74	40.87	27.64	14.11	27.84	368	99	P	V
			2389.8	43.84	-10.16	54	29.94	27.62	14.12	27.84	368	99	A	V
	*		2437	107.3	-	-	93.44	27.53	14.16	27.83	368	99	P	V
	*		2437	99.72	-	-	85.86	27.53	14.16	27.83	368	99	A	V
			2483.53	55.34	-18.66	74	41.46	27.5	14.2	27.82	368	99	P	V
			2484.34	44.11	-9.89	54	30.23	27.5	14.2	27.82	368	99	A	V



802.11g CH 11 2462MHz	*	2462	103.16	-	-	89.31	27.5	14.18	27.83	320	97	P	H
	*	2462	95.39	-	-	81.54	27.5	14.18	27.83	320	97	A	H
		2484.92	61.83	-12.17	74	47.95	27.5	14.2	27.82	320	97	P	H
		2483.56	46.04	-7.96	54	32.16	27.5	14.2	27.82	320	97	A	H
													H
													H
	*	2462	109.12	-	-	95.27	27.5	14.18	27.83	256	91	P	V
	*	2462	101.48	-	-	87.63	27.5	14.18	27.83	256	91	A	V
		2483.64	67.69	-6.31	74	53.81	27.5	14.2	27.82	256	91	P	V
		2483.52	49.45	-4.55	54	35.57	27.5	14.2	27.82	256	91	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	37.44	-36.56	74	57.15	31.15	6.59	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	37.59	-36.41	74	57.3	31.15	6.59	57.45	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	38.07	-35.93	74	57.41	31.2	6.8	57.34	100	0	P	H	
		7311	44.46	-29.54	74	56.04	36.78	8.73	57.09	100	0	P	H	
													H	
													H	
			4874	38.26	-35.74	74	57.6	31.2	6.8	57.34	100	0	P	V
			7311	44.2	-29.8	74	55.78	36.78	8.73	57.09	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	37.9	-36.1	74	56.81	31.3	7.02	57.23	100	0	P	H	
		7386	44.15	-29.85	74	56.07	36.56	8.72	57.2	100	0	P	H	
													H	
													H	
			4924	38.18	-35.82	74	57.09	31.3	7.02	57.23	100	0	P	V
			7386	44.29	-29.71	74	56.21	36.56	8.72	57.2	100	0	P	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 802.11 ax HE20 Full (Band Edge @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full CH 01 2412MHz		2388.75	55.49	-18.51	74	41.59	27.62	14.12	27.84	100	300	P	H	
		2389.17	45.91	-8.09	54	32.01	27.62	14.12	27.84	100	300	A	H	
	*	2412	100.27	-	-	86.39	27.58	14.14	27.84	100	300	P	H	
	*	2412	91.81	-	-	77.93	27.58	14.14	27.84	100	300	A	H	
													H	
														H
			2389.695	62.64	-11.36	74	48.74	27.62	14.12	27.84	100	230	P	V
			2390	48.74	-5.26	54	34.84	27.62	14.12	27.84	100	230	A	V
	*		2412	107.03	-	-	93.15	27.58	14.14	27.84	100	230	P	V
	*		2412	98.37	-	-	84.49	27.58	14.14	27.84	100	230	A	V
													V	
													V	
802.11ax HE20 Full CH 06 2437MHz		2378.18	54.71	-19.29	74	40.8	27.64	14.11	27.84	100	300	P	H	
		2380.42	45.44	-8.56	54	31.53	27.64	14.11	27.84	100	300	A	H	
	*	2437	102.11	-	-	88.25	27.53	14.16	27.83	100	300	P	H	
	*	2437	92.47	-	-	78.61	27.53	14.16	27.83	100	300	A	H	
			2499.02	54.59	-19.41	74	40.7	27.5	14.21	27.82	100	300	P	H
			2499.37	45.53	-8.47	54	31.64	27.5	14.21	27.82	100	300	A	H
			2321.48	55.39	-18.61	74	41.44	27.76	14.05	27.86	100	227	P	V
			2386.72	45.65	-8.35	54	31.74	27.63	14.12	27.84	100	227	A	V
	*		2437	107.27	-	-	93.41	27.53	14.16	27.83	100	227	P	V
	*		2437	98.82	-	-	84.96	27.53	14.16	27.83	100	227	A	V
		2484.81	55.88	-18.12	74	42	27.5	14.2	27.82	100	227	P	V	
		2491.18	45.77	-8.23	54	31.89	27.5	14.2	27.82	100	227	A	V	



WIFI Ant. 1+2	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)
8802.11ax HE20 Full CH 11 2462MHz	*	2462	100.74	-	-	86.89	27.5	14.18	27.83	115	300	P	H
	*	2462	92.76	-	-	78.91	27.5	14.18	27.83	115	300	A	H
		2484.08	58.3	-15.7	74	44.42	27.5	14.2	27.82	115	300	P	H
		2483.52	47.54	-6.46	54	33.66	27.5	14.2	27.82	115	300	A	H
													H
													H
	*	2462	107.04	-	-	93.19	27.5	14.18	27.83	100	227	P	V
	*	2462	98.89	-	-	85.04	27.5	14.18	27.83	100	227	A	V
		2484.2	64.36	-9.64	74	50.48	27.5	14.2	27.82	100	227	P	V
		2483.52	52.26	-1.74	54	38.38	27.5	14.2	27.82	100	227	A	V
												V	
												V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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)	
802.11ax HE20 Full CH 01 2412MHz		4824	37.96	-36.04	74	57.67	31.15	6.59	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.36	-35.64	74	58.07	31.15	6.59	57.45	100	0	P	V
														V
														V
802.11ax HE20 Full CH 06 2437MHz		4874	38.59	-35.41	74	57.93	31.2	6.8	57.34	100	0	P	H	
		7311	44.7	-29.3	74	56.28	36.78	8.73	57.09	100	0	P	H	
													H	
													H	
			4874	38.44	-35.56	74	57.78	31.2	6.8	57.34	100	0	P	V
			7311	44.04	-29.96	74	55.62	36.78	8.73	57.09	100	0	P	V
														V
802.11ax HE20 Full CH 11 2462MHz		4924	39.32	-34.68	74	58.23	31.3	7.02	57.23	100	0	P	H	
		7386	44.74	-29.26	74	56.66	36.56	8.72	57.2	100	0	P	H	
													H	
													H	
			4924	39.59	-34.41	74	58.5	31.3	7.02	57.23	100	0	P	V
			7386	45.36	-28.64	74	57.28	36.56	8.72	57.2	100	0	P	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 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 03 2422MHz		2389.94	57.8	-16.2	74	43.9	27.62	14.12	27.84	331	85	P	H
		2388.4	48.77	-5.23	54	34.87	27.62	14.12	27.84	331	85	A	H
	*	2422	96.87	-	-	83	27.56	14.15	27.84	331	85	P	H
	*	2422	90.05	-	-	76.18	27.56	14.15	27.84	331	85	A	H
		2490.83	54.66	-19.34	74	40.78	27.5	14.2	27.82	331	85	P	H
		2498.11	46.84	-7.16	54	32.95	27.5	14.21	27.82	331	85	A	H
		2387.14	62.76	-11.24	74	48.85	27.63	14.12	27.84	260	89	P	V
		2389.94	52.39	-1.61	54	38.49	27.62	14.12	27.84	260	89	A	V
	*	2422	103.01	-	-	89.14	27.56	14.15	27.84	260	89	P	V
	*	2422	95.58	-	-	81.71	27.56	14.15	27.84	260	89	A	V
		2485.23	55.93	-18.07	74	42.05	27.5	14.2	27.82	260	89	P	V
		2488.31	47.17	-6.83	54	33.29	27.5	14.2	27.82	260	89	A	V
802.11ax HE40 Full CH 06 2437MHz		2377.48	54.54	-19.46	74	40.62	27.65	14.11	27.84	296	78	P	H
		2388.82	46.79	-7.21	54	32.89	27.62	14.12	27.84	296	78	A	H
	*	2437	98.16	-	-	84.3	27.53	14.16	27.83	296	78	P	H
	*	2437	91.11	-	-	77.25	27.53	14.16	27.83	296	78	A	H
		2489.57	54.29	-19.71	74	40.41	27.5	14.2	27.82	296	78	P	H
		2494.4	46.86	-7.14	54	32.97	27.5	14.21	27.82	296	78	A	H
		2389.38	57.16	-16.84	74	43.26	27.62	14.12	27.84	290	89	P	V
		2388.26	47.25	-6.75	54	33.35	27.62	14.12	27.84	290	89	A	V
	*	2437	103	-	-	89.14	27.53	14.16	27.83	290	89	P	V
	*	2437	96.47	-	-	82.61	27.53	14.16	27.83	290	89	A	V
		2483.5	58.66	-15.34	74	44.78	27.5	14.2	27.82	290	89	P	V
		2486.56	48.62	-5.38	54	34.74	27.5	14.2	27.82	290	89	A	V



WiFi Ant. 1+2	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)
802.11ax HE40 Full CH 09 2452MHz		2367.68	54.16	-19.84	74	40.25	27.66	14.1	27.85	294	79	P	H
		2378.6	46.81	-7.19	54	32.9	27.64	14.11	27.84	294	79	A	H
	*	2452	95.49	-	-	81.65	27.5	14.17	27.83	294	79	P	H
	*	2452	88.13	-	-	74.29	27.5	14.17	27.83	294	79	A	H
		2486.35	57.75	-16.25	74	43.87	27.5	14.2	27.82	294	79	P	H
		2484.74	48.36	-5.64	54	34.48	27.5	14.2	27.82	294	79	A	H
		2360.96	54.51	-19.49	74	40.59	27.68	14.09	27.85	291	88	P	V
		2354.24	47.05	-6.95	54	33.13	27.69	14.08	27.85	291	88	A	V
	*	2452	100.75	-	-	86.91	27.5	14.17	27.83	291	88	P	V
	*	2452	93.95	-	-	80.11	27.5	14.17	27.83	291	88	A	V
		2483.69	66.5	-7.5	74	52.62	27.5	14.2	27.82	291	88	P	V
		2483.83	52.9	-1.1	54	39.02	27.5	14.2	27.82	291	88	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 03 2422MHz		4844	39.03	-34.97	74	58.57	31.19	6.68	57.41	100	0	P	H
		7266	45	-29	74	56.48	36.8	8.74	57.02	100	0	P	H
													H
													H
		4844	37.79	-36.21	74	57.33	31.19	6.68	57.41	100	0	P	V
		7266	45.34	-28.66	74	56.82	36.8	8.74	57.02	100	0	P	V
													V
802.11ax HE40 Full CH 06 2437MHz		4874	38.4	-35.6	74	57.74	31.2	6.8	57.34	100	0	P	H
		7311	44.56	-29.44	74	56.14	36.78	8.73	57.09	100	0	P	H
													H
													H
		4874	39.42	-34.58	74	58.76	31.2	6.8	57.34	100	0	P	V
		7311	45.46	-28.54	74	57.04	36.78	8.73	57.09	100	0	P	V
													V
802.11ax HE40 Full CH 09 2452MHz		4904	37.8	-36.2	74	56.93	31.22	6.93	57.28	100	0	P	H
		7356	43.77	-30.23	74	55.52	36.68	8.72	57.15	100	0	P	H
													H
													H
		4904	37.96	-36.04	74	57.09	31.22	6.93	57.28	100	0	P	V
		7356	45.13	-28.87	74	56.88	36.68	8.72	57.15	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



<Plus W3006>

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		2385.6	54.94	-19.06	74	41.03	27.63	14.12	27.84	390	356	P	H	
		2389.275	45.58	-8.42	54	31.68	27.62	14.12	27.84	390	356	A	H	
	*	2412	105.62	-	-	91.74	27.58	14.14	27.84	390	356	P	H	
	*	2412	102.55	-	-	88.67	27.58	14.14	27.84	390	356	A	H	
													H	
													H	
			2389.065	56.17	-17.83	74	42.27	27.62	14.12	27.84	299	260	P	V
			2389.275	46.81	-7.19	54	32.91	27.62	14.12	27.84	299	260	A	V
	*		2412	107.64	-	-	93.76	27.58	14.14	27.84	299	260	P	V
	*		2412	104.53	-	-	90.65	27.58	14.14	27.84	299	260	A	V
													V	
													V	
802.11b CH 06 2437MHz		2380.28	56.18	-17.82	74	42.27	27.64	14.11	27.84	336	357	P	H	
		2387	43.95	-10.05	54	30.04	27.63	14.12	27.84	336	357	A	H	
	*	2437	105	-	-	91.14	27.53	14.16	27.83	336	357	P	H	
	*	2437	101.88	-	-	88.02	27.53	14.16	27.83	336	357	A	H	
			2494.06	54.62	-19.38	74	40.73	27.5	14.21	27.82	336	357	P	H
			2484.88	43.74	-10.26	54	29.86	27.5	14.2	27.82	336	357	A	H
			2381.96	55.21	-18.79	74	41.3	27.64	14.11	27.84	379	263	P	V
			2389.94	44.28	-9.72	54	30.38	27.62	14.12	27.84	379	263	A	V
	*		2437	107.39	-	-	93.53	27.53	14.16	27.83	379	263	P	V
	*		2437	104.27	-	-	90.41	27.53	14.16	27.83	379	263	A	V
			2490.28	54.74	-19.26	74	40.86	27.5	14.2	27.82	379	263	P	V
			2484.88	43.91	-10.09	54	30.03	27.5	14.2	27.82	379	263	A	V



802.11b CH 11 2462MHz	*	2462	103.4	-	-	89.55	27.5	14.18	27.83	116	356	P	H
	*	2462	100.26	-	-	86.41	27.5	14.18	27.83	116	356	A	H
		2484.36	54.93	-19.07	74	41.05	27.5	14.2	27.82	116	356	P	H
		2484.92	44.41	-9.59	54	30.53	27.5	14.2	27.82	116	356	A	H
													H
													H
	*	2462	105.52	-	-	91.67	27.5	14.18	27.83	328	257	P	V
	*	2462	102.4	-	-	88.55	27.5	14.18	27.83	328	257	A	V
		2486.32	55.86	-18.14	74	41.98	27.5	14.2	27.82	328	257	P	V
		2485	44.86	-9.14	54	30.98	27.5	14.2	27.82	328	257	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	38.25	-35.75	74	57.96	31.15	6.59	57.45	100	0	P	H
													H
													H
													H
		4824	38.69	-35.31	74	58.4	31.15	6.59	57.45	100	0	P	V
													V
													V
802.11b CH 06 2437MHz		4874	37.99	-36.01	74	57.33	31.2	6.8	57.34	100	0	P	H
		7311	44.33	-29.67	74	55.91	36.78	8.73	57.09	100	0	P	H
													H
													H
		4874	38.78	-35.22	74	58.12	31.2	6.8	57.34	100	0	P	V
		7311	45.34	-28.66	74	56.92	36.78	8.73	57.09	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	38.78	-35.22	74	57.69	31.3	7.02	57.23	100	0	P	H
		7386	45.55	-28.45	74	57.47	36.56	8.72	57.2	100	0	P	H
													H
													H
		4924	38.39	-35.61	74	57.3	31.3	7.02	57.23	100	0	P	V
		7386	44.66	-29.34	74	56.58	36.56	8.72	57.2	100	0	P	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		2388.855	69.39	-4.61	74	55.49	27.62	14.12	27.84	100	356	P	H	
		2390	50.13	-3.87	54	36.23	27.62	14.12	27.84	100	356	A	H	
	*	2412	104.82	-	-	90.94	27.58	14.14	27.84	100	356	P	H	
	*	2412	96.82	-	-	82.94	27.58	14.14	27.84	100	356	A	H	
													H	
													H	
			2389.275	71.46	-2.54	74	57.56	27.62	14.12	27.84	299	260	P	V
			2390	52.06	-1.94	54	38.16	27.62	14.12	27.84	299	260	A	V
	*		2412	107.26	-	-	93.38	27.58	14.14	27.84	299	260	P	V
	*		2412	99.59	-	-	85.71	27.58	14.14	27.84	299	260	A	V
													V	
													V	
802.11g CH 06 2437MHz		2358.16	55.05	-18.95	74	41.13	27.68	14.09	27.85	336	357	P	H	
		2389.8	43.71	-10.29	54	29.81	27.62	14.12	27.84	336	357	A	H	
	*	2437	104.09	-	-	90.23	27.53	14.16	27.83	336	357	P	H	
	*	2437	96.37	-	-	82.51	27.53	14.16	27.83	336	357	A	H	
			2492.62	54.95	-19.05	74	41.07	27.5	14.2	27.82	336	357	P	H
			2486.77	43.7	-10.3	54	29.82	27.5	14.2	27.82	336	357	A	H
			2362.5	54.68	-19.32	74	40.76	27.68	14.09	27.85	292	277	P	V
			2389.24	43.89	-10.11	54	29.99	27.62	14.12	27.84	292	277	A	V
	*		2437	105.78	-	-	91.92	27.53	14.16	27.83	292	277	P	V
	*		2437	98.06	-	-	84.2	27.53	14.16	27.83	292	277	A	V
			2494.42	55.05	-18.95	74	41.16	27.5	14.21	27.82	292	277	P	V
			2484.43	43.89	-10.11	54	30.01	27.5	14.2	27.82	292	277	A	V



802.11g CH 11 2462MHz	*	2462	103.36	-	-	89.51	27.5	14.18	27.83	119	356	P	H
	*	2462	95.66	-	-	81.81	27.5	14.18	27.83	119	356	A	H
		2483.6	62.64	-11.36	74	48.76	27.5	14.2	27.82	119	356	P	H
		2483.56	45	-9	54	31.12	27.5	14.2	27.82	119	356	A	H
													H
													H
	*	2462	105.34	-	-	91.49	27.5	14.18	27.83	297	258	P	V
	*	2462	97.6	-	-	83.75	27.5	14.18	27.83	297	258	A	V
		2483.88	63.9	-10.1	74	50.02	27.5	14.2	27.82	297	258	P	V
		2483.52	45.41	-8.59	54	31.53	27.5	14.2	27.82	297	258	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	38.37	-35.63	74	58.08	31.15	6.59	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.03	-35.97	74	57.74	31.15	6.59	57.45	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	38.83	-35.17	74	58.17	31.2	6.8	57.34	100	0	P	H	
		7311	44.52	-29.48	74	56.1	36.78	8.73	57.09	100	0	P	H	
													H	
													H	
			4874	38.43	-35.57	74	57.77	31.2	6.8	57.34	100	0	P	V
			7311	44.93	-29.07	74	56.51	36.78	8.73	57.09	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	39.63	-34.37	74	58.54	31.3	7.02	57.23	100	0	P	H	
		7386	44.71	-29.29	74	56.63	36.56	8.72	57.2	100	0	P	H	
													H	
													H	
			4924	38.78	-35.22	74	57.69	31.3	7.02	57.23	100	0	P	V
			7386	44.82	-29.18	74	56.74	36.56	8.72	57.2	100	0	P	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 802.11 ax HE20 Full (Band Edge @ 3m)

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+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full CH 01 2412MHz		2390	60.51	-13.49	74	46.61	27.62	14.12	27.84	349	344	P	H	
		2390	49.93	-4.07	54	36.03	27.62	14.12	27.84	349	344	A	H	
	*	2412	104.53	-	-	90.65	27.58	14.14	27.84	349	344	P	H	
	*	2412	96.25	-	-	82.37	27.58	14.14	27.84	349	344	A	H	
													H	
														H
			2388.12	63.58	-10.42	74	49.68	27.62	14.12	27.84	336	259	P	V
			2389.59	51.59	-2.41	54	37.69	27.62	14.12	27.84	336	259	A	V
	*		2412	106.73	-	-	92.85	27.58	14.14	27.84	336	259	P	V
	*		2412	97.87	-	-	83.99	27.58	14.14	27.84	336	259	A	V
													V	
													V	
802.11ax HE20 Full CH 06 2437MHz		2387.42	55.21	-18.79	74	41.3	27.63	14.12	27.84	146	343	P	H	
		2384.06	45.57	-8.43	54	31.67	27.63	14.11	27.84	146	343	A	H	
	*	2437	104.98	-	-	91.12	27.53	14.16	27.83	146	343	P	H	
	*	2437	96.04	-	-	82.18	27.53	14.16	27.83	146	343	A	H	
			2489.29	54.71	-19.29	74	40.83	27.5	14.2	27.82	146	343	P	H
			2490.69	45.58	-8.42	54	31.7	27.5	14.2	27.82	146	343	A	H
			2346.4	55.36	-18.64	74	41.42	27.71	14.08	27.85	282	257	P	V
			2362.08	45.62	-8.38	54	31.7	27.68	14.09	27.85	282	257	A	V
	*		2437	106.01	-	-	92.15	27.53	14.16	27.83	282	257	P	V
	*		2437	97.74	-	-	83.88	27.53	14.16	27.83	282	257	A	V
		2489.29	55.92	-18.08	74	42.04	27.5	14.2	27.82	282	257	P	V	
		2495.45	45.8	-8.2	54	31.91	27.5	14.21	27.82	282	257	A	V	



WIFI Ant. 1+2	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)
8802.11ax HE20 Full CH 11 2462MHz	*	2462	103.24	-	-	89.39	27.5	14.18	27.83	227	344	P	H
	*	2462	94.76	-	-	80.91	27.5	14.18	27.83	227	344	A	H
		2484.76	60.08	-13.92	74	46.2	27.5	14.2	27.82	227	344	P	H
		2484.32	46.85	-7.15	54	32.97	27.5	14.2	27.82	227	344	A	H
													H
													H
	*	2462	104.61	-	-	90.76	27.5	14.18	27.83	361	259	P	V
	*	2462	96.83	-	-	82.98	27.5	14.18	27.83	361	259	A	V
		2484.52	61.3	-12.7	74	47.42	27.5	14.2	27.82	361	259	P	V
		2483.88	47.77	-6.23	54	33.89	27.5	14.2	27.82	361	259	A	V
												V	
												V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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)	
802.11ax HE20 Full CH 01 2412MHz		4824	37.69	-36.31	74	57.4	31.15	6.59	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.38	-35.62	74	58.09	31.15	6.59	57.45	100	0	P	V
														V
														V
802.11ax HE20 Full CH 06 2437MHz		4874	38.49	-35.51	74	57.83	31.2	6.8	57.34	100	0	P	H	
		7311	44.37	-29.63	74	55.95	36.78	8.73	57.09	100	0	P	H	
													H	
													H	
			4874	38.67	-35.33	74	58.01	31.2	6.8	57.34	100	0	P	V
			7311	44.3	-29.7	74	55.88	36.78	8.73	57.09	100	0	P	V
														V
802.11ax HE20 Full CH 11 2462MHz		4924	38.84	-35.16	74	57.75	31.3	7.02	57.23	100	0	P	H	
		7386	45.09	-28.91	74	57.01	36.56	8.72	57.2	100	0	P	H	
													H	
													H	
			4924	37.81	-36.19	74	56.72	31.3	7.02	57.23	100	0	P	V
			7386	43.92	-30.08	74	55.84	36.56	8.72	57.2	100	0	P	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 802.11 ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 03 2422MHz		2387.84	60.32	-13.68	74	46.42	27.62	14.12	27.84	344	360	P	H
		2389.94	52.48	-1.52	54	38.58	27.62	14.12	27.84	344	360	A	H
	*	2422	99.9	-	-	86.03	27.56	14.15	27.84	344	360	P	H
	*	2422	92.22	-	-	78.35	27.56	14.15	27.84	344	360	A	H
		2486.91	54.66	-19.34	74	40.78	27.5	14.2	27.82	344	360	P	H
		2487.05	46.76	-7.24	54	32.88	27.5	14.2	27.82	344	360	A	H
		2383.22	63.13	-10.87	74	49.23	27.63	14.11	27.84	340	266	P	V
		2387.56	52.45	-1.55	54	38.55	27.62	14.12	27.84	340	266	A	V
	*	2422	100.18	-	-	86.31	27.56	14.15	27.84	340	266	P	V
	*	2422	94.07	-	-	80.2	27.56	14.15	27.84	340	266	A	V
		2490.97	54.62	-19.38	74	40.74	27.5	14.2	27.82	340	266	P	V
		2487.05	46.9	-7.1	54	33.02	27.5	14.2	27.82	340	266	A	V
802.11ax HE40 Full CH 06 2437MHz		2389.1	55.78	-18.22	74	41.88	27.62	14.12	27.84	340	360	P	H
		2385.88	48.15	-5.85	54	34.24	27.63	14.12	27.84	340	360	A	H
	*	2437	100.42	-	-	86.56	27.53	14.16	27.83	340	360	P	H
	*	2437	93.59	-	-	79.73	27.53	14.16	27.83	340	360	A	H
		2498.11	53.93	-20.07	74	40.04	27.5	14.21	27.82	340	360	P	H
		2487.54	47.81	-6.19	54	33.93	27.5	14.2	27.82	340	360	A	H
		2388.4	58.31	-15.69	74	44.41	27.62	14.12	27.84	294	260	P	V
		2386.72	48.91	-5.09	54	35	27.63	14.12	27.84	294	260	A	V
	*	2437	102.48	-	-	88.62	27.53	14.16	27.83	294	260	P	V
	*	2437	95.86	-	-	82	27.53	14.16	27.83	294	260	A	V
	2484.39	56.38	-17.62	74	42.5	27.5	14.2	27.82	294	260	P	V	
	2484.95	47.91	-6.09	54	34.03	27.5	14.2	27.82	294	260	A	V	



WiFi Ant. 1+2	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)
802.11ax HE40 Full CH 09 2452MHz		2343.88	54.79	-19.21	74	40.86	27.71	14.07	27.85	300	360	P	H
		2334.22	47.08	-6.92	54	33.14	27.73	14.06	27.85	300	360	A	H
	*	2452	99.21	-	-	85.37	27.5	14.17	27.83	300	360	P	H
	*	2452	92.29	-	-	78.45	27.5	14.17	27.83	300	360	A	H
		2486.91	58.02	-15.98	74	44.14	27.5	14.2	27.82	300	360	P	H
		2483.76	48.7	-5.3	54	34.82	27.5	14.2	27.82	300	360	A	H
		2385.18	54.78	-19.22	74	40.87	27.63	14.12	27.84	288	260	P	V
		2388.26	47.1	-6.9	54	33.2	27.62	14.12	27.84	288	260	A	V
	*	2452	100.6	-	-	86.76	27.5	14.17	27.83	288	260	P	V
	*	2452	94.16	-	-	80.32	27.5	14.17	27.83	288	260	A	V
		2483.55	63.31	-10.69	74	49.43	27.5	14.2	27.82	288	260	P	V
		2484.25	51.33	-2.67	54	37.45	27.5	14.2	27.82	288	260	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

WIFI Ant. 1+2	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)
802.11ax HE40 Full CH 03 2422MHz		4844	38.68	-35.32	74	58.22	31.19	6.68	57.41	100	0	P	H
		7266	44.35	-29.65	74	55.83	36.8	8.74	57.02	100	0	P	H
													H
													H
		4844	37.75	-36.25	74	57.29	31.19	6.68	57.41	100	0	P	V
		7266	44.85	-29.15	74	56.33	36.8	8.74	57.02	100	0	P	V
													V
802.11ax HE40 Full CH 06 2437MHz		4874	38.16	-35.84	74	57.5	31.2	6.8	57.34	100	0	P	H
		7311	44.37	-29.63	74	55.95	36.78	8.73	57.09	100	0	P	H
													H
													H
		4874	38.23	-35.77	74	57.57	31.2	6.8	57.34	100	0	P	V
		7311	44.85	-29.15	74	56.43	36.78	8.73	57.09	100	0	P	V
													V
802.11ax HE40 Full CH 09 2452MHz		4904	38.69	-35.31	74	57.82	31.22	6.93	57.28	100	0	P	H
		7356	44.38	-29.62	74	56.13	36.68	8.72	57.15	100	0	P	H
													H
													H
		4904	38.58	-35.42	74	57.71	31.22	6.93	57.28	100	0	P	V
		7356	44.54	-29.46	74	56.29	36.68	8.72	57.15	100	0	P	V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												

