



FCC RADIO TEST REPORT

FCC ID : UZ7ET56DT
Equipment : Tablet
Brand Name : Zebra
Model Name : ET56DT
Applicant : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Manufacturer : Zebra Technologies Corporation
1 Zebra Plaza, Holtsville, NY 11742
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jul. 30, 2020 and testing was started from Aug. 04, 2020 and completed on Sep. 04, 2020. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FR072903-01C	01	Initial issue of report	Sep. 17, 2020



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
0	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 1.16 dB at 2390.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 14.11 dB at 0.166 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: Ruby Zou



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Brand Name	Zebra
Model Name	ET56DT
FCC ID	UZ7ET56DT
EUT supports Radios application	WCDMA/HSPA/LTE/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	DV1
SW Version	Android 10
FW Version	10-13-05.00-QG-U00-PRD-HEL-04
MFD	15JUL20
EUT Stage	Identical Prototype

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

Specification of Accessories				
Spare Standard Battery 36.75Wh	Brand Name	Zebra	Part Number	BT-000394

Supported Unit Used in Test Configuration and System				
Cradle (Dock) for EMC	Brand Name	Zebra	Part Number	CRD-ET5X-1SCG1
Cradle (Dock) for RSE	Brand Name	Zebra	Part Number	CHG-ET5X-CBL1-01
Adapter for Cradle	Brand Name	Zebra	Part Number	PWRBGA12V50W0WW
DC Cable for Cradle	Brand Name	Zebra	Part Number	CBL-DC-388A1-01
USB Cable	Brand Name	Zebra	Part Number	CBL-TC2X-USBC-01
Adapter	Brand Name	Zebra	Part Number	PWR-WUA5V12W0US



1.2 Product Specification of Equipment Under Test

Product Specification subjective to this standard										
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz									
Maximum Average Output Power to antenna	<p><Ant. 1>: 802.11b : 21.00 dBm (0.1259 W) 802.11g : 19.50 dBm (0.0891 W) 802.11n HT20 : 18.70 dBm (0.0741 W) 802.11n HT40 : 17.80 dBm (0.0603 W)</p> <p><Ant. 2>: 802.11b : 21.10 dBm (0.1288 W) 802.11g : 19.40 dBm (0.0871 W) 802.11n HT20 : 18.90 dBm (0.0776 W) 802.11n HT40 : 17.60 dBm (0.0575 W)</p> <p>MIMO <Ant. 1 + 2>: 802.11b : 23.96 dBm (0.2489 W) 802.11g : 22.11 dBm (0.1626 W) 802.11n HT20 : 21.56 dBm (0.1432 W) 802.11n HT40 : 20.87 dBm (0.1222 W)</p>									
99% Occupied Bandwidth	<p><Ant. 1>: 802.11b : 14.45 MHz 802.11g : 16.95 MHz 802.11n HT20 : 18.10 MHz 802.11n HT40 : 36.60 MHz</p> <p><Ant. 2>: 802.11b : 14.95 MHz 802.11g : 17.00 MHz 802.11n HT20 : 18.05 MHz 802.11n HT40 : 36.70 MHz</p> <p>MIMO <Ant. 1>: 802.11b : 15.40 MHz 802.11g : 16.90 MHz 802.11n HT20 : 18.10 MHz 802.11n HT40 : 36.60 MHz</p> <p>MIMO <Ant. 2>: 802.11b : 14.90 MHz 802.11g : 16.75 MHz 802.11n HT20 : 17.95 MHz 802.11n HT40 : 36.60 MHz</p>									
Antenna Type / Gain	<p><Ant. 1>: Chip Antenna with gain 0.85 dBi <Ant. 2>: Chip Antenna with gain 2.05 dBi</p>									
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)									
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 b/g/n</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 b/g/n MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 b/g/n	V	V	802.11 b/g/n MIMO	V	V
	Ant. 1	Ant. 2								
802.11 b/g/n	V	V								
802.11 b/g/n MIMO	V	V								

Note: MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.



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. EMC & Wireless Communications Laboratory	
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH13-HY	

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

FCC designation No.: TW1190 and TW0007

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 three orthogonal panels, X, Y, Z. The worst cases (X plane for Ant. 1, Ant. 2 and MIMO Ant. 1+2; Y Plane for Ant. 2 and Z Plane for Ant. 1) were recorded in this report.

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

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WCDMA Band II Idle + WLAN (2.4GHz) Link + Bluetooth Link + USB Cable (99MO084101) + USB File Transfer with Notebook (eMMC to Notebook) + Adaptor with DC Cable + NFC On + Dock (Charging with Tablet (ET56DT)) + Camera (Front) + SD Card (Play MP3) + Battery
Remark: USB File Transfer with Notebook means data application transferred mode between EUT and storage device.	

Ch. #	2400-2483.5 MHz			
	802.11b	802.11g	802.11n HT20	802.11n HT40
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	21.00	CH 06	20.90	20.80	20.90
CH 06	2437	21.00				
CH 11	2462	19.90				

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	19.50	CH 01	19.40	19.40	19.40	19.30	19.40	19.30	19.20
CH 06	2437	19.20								
CH 11	2462	17.90								

802.11n HT20 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
CH 01	2412	18.60	CH 06	18.50	18.60	18.60	18.50	18.50	18.60	18.60
CH 06	2437	18.70								
CH 11	2462	17.00								

802.11n HT40 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
CH 03	2422	17.70	CH 06	17.70	17.50	17.60	17.70	17.70	17.60	17.50
CH 06	2437	17.80								
CH 09	2452	16.00								



<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	21.10	CH 01	21.00	20.90	21.00
CH 06	2437	21.10				
CH 11	2462	21.00				

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	19.40	CH 01	16.90	16.90	16.90	16.80	16.90	16.80	16.70
CH 06	2437	19.30								
CH 11	2462	19.20								

802.11n HT20 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
CH 01	2412	17.60	CH 11	18.70	18.80	18.80	18.70	18.70	18.80	18.80
CH 06	2437	18.80								
CH 11	2462	18.90								

802.11n HT40 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
CH 03	2422	14.80	CH 06	17.50	17.30	17.40	17.50	17.50	17.40	17.30
CH 06	2437	17.60								
CH 09	2452	15.90								



MIMO <Ant. 1+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	23.77	CH 11	23.81	23.76	23.66
CH 06	2437	23.71				
CH 11	2462	23.96				

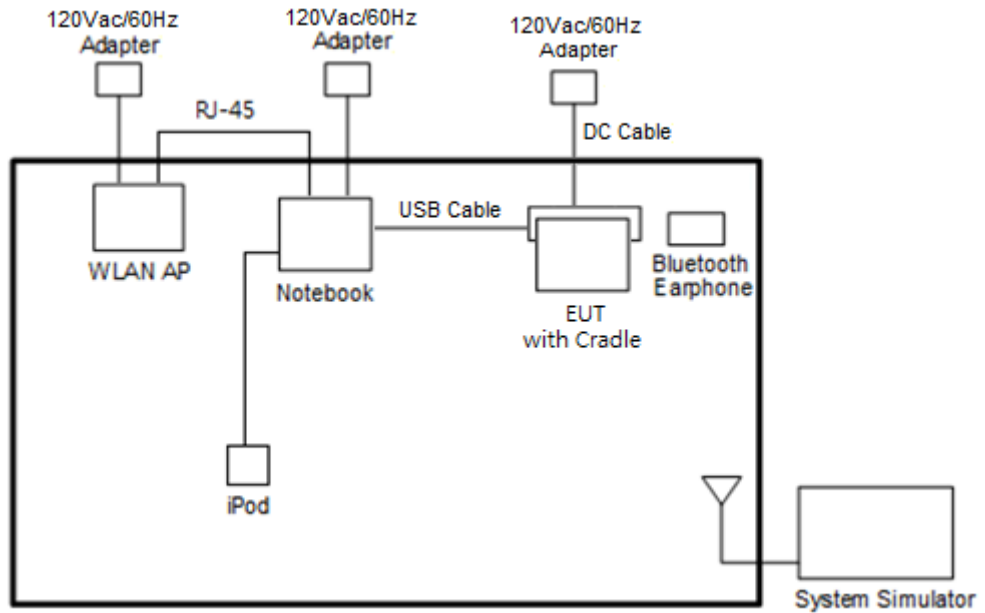
802.11g RF Avg Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)						
		6M		9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
CH 01	2412	19.81	CH 06	22.01	22.01	22.06	21.96	22.06	21.96	21.91
CH 06	2437	22.11								
CH 11	2462	20.87								

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	19.42	CH 06	21.36	21.46	21.46	21.36	21.36	21.46	21.46
CH 06	2437	21.56								
CH 11	2462	19.77								

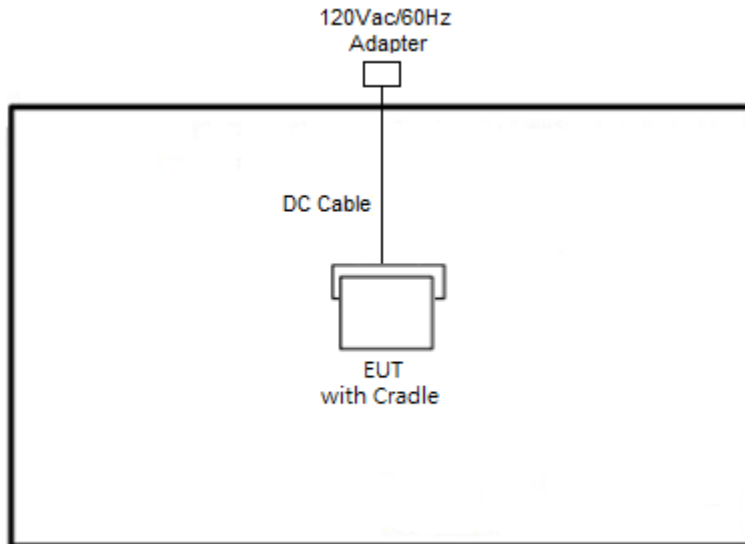
802.11n HT40 RF Output Power (dBm)										
Power vs. Channel			Power vs Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2422	17.17	CH 06	17.50	17.30	17.40	17.50	17.50	17.40	17.30
CH 06	2437	20.87								
CH 09	2452	18.31								

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	iPod	Apple	A1285	DoC	Shielded, 1.0m	N/A
5.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
7.	USB Cable	Moshi	99MO084101	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility “QRCT V3.0.303.0” 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 10dB attenuator.

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

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

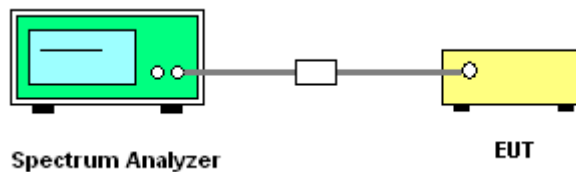
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup





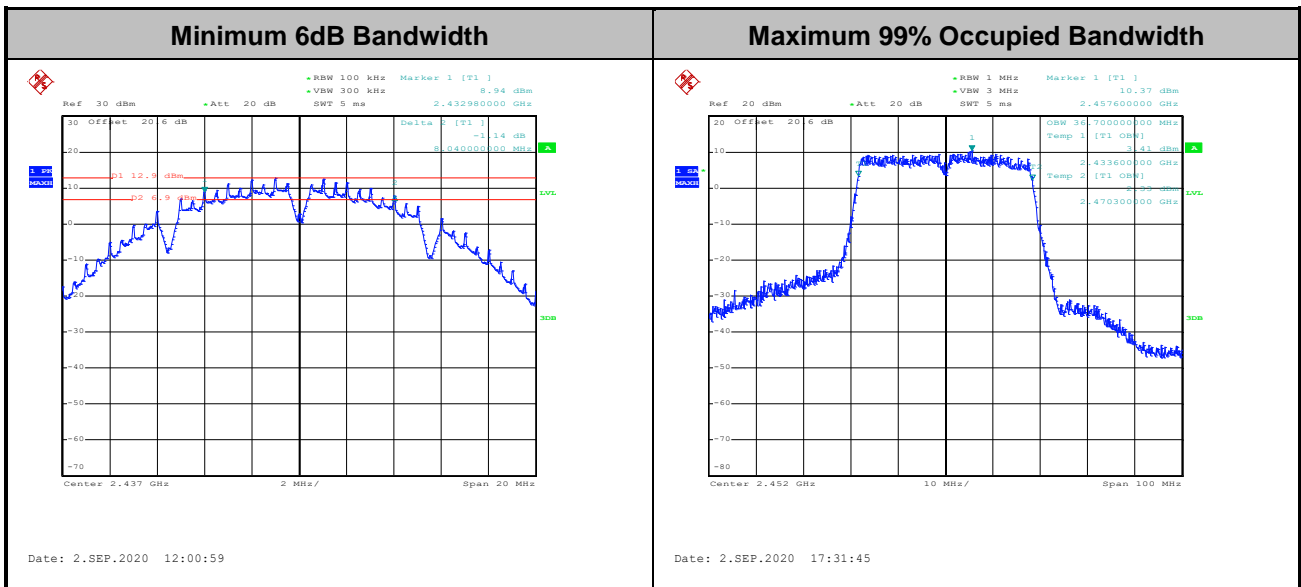
3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Test Engineer :	Hank Hsu and Jacob Yu	Temperature :	23.5~24.5°C
		Relative Humidity :	53~54.5%

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	14.35	14.20	8.10	8.08	0.50	Pass
11b	1Mbps	1	6	2437	13.80	13.85	8.06	8.06	0.50	Pass
11b	1Mbps	1	11	2462	14.45	14.95	8.10	9.04	0.50	Pass
11g	6Mbps	1	1	2412	16.95	17.00	16.04	15.64	0.50	Pass
11g	6Mbps	1	6	2437	16.75	16.65	15.42	15.44	0.50	Pass
11g	6Mbps	1	11	2462	16.60	16.80	15.12	15.12	0.50	Pass
HT20	MCS0	1	1	2412	18.10	18.05	16.80	16.90	0.50	Pass
HT20	MCS0	1	6	2437	17.85	17.80	15.96	15.96	0.50	Pass
HT20	MCS0	1	11	2462	17.70	17.90	15.12	15.10	0.50	Pass
HT40	MCS0	1	3	2422	36.50	36.50	35.12	35.12	0.50	Pass
HT40	MCS0	1	6	2437	36.50	36.50	35.12	35.12	0.50	Pass
HT40	MCS0	1	9	2452	36.60	36.70	35.68	35.76	0.50	Pass



2.4GHz Band MIMO										
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	2	1	2412	14.75	14.40	10.00	8.08	0.50	Pass
11b	1Mbps	2	6	2437	13.90	13.65	8.04	8.04	0.50	Pass
11b	1Mbps	2	11	2462	15.40	14.90	9.04	9.04	0.50	Pass
11g	6Mbps	2	1	2412	16.90	16.75	16.04	16.04	0.50	Pass
11g	6Mbps	2	6	2437	16.75	16.65	15.68	15.72	0.50	Pass
11g	6Mbps	2	11	2462	16.65	16.55	15.12	15.32	0.50	Pass
HT20	MCS0	2	1	2412	18.10	17.95	17.16	17.16	0.50	Pass
HT20	MCS0	2	6	2437	17.90	17.75	15.96	15.96	0.50	Pass
HT20	MCS0	2	11	2462	17.70	17.75	15.12	15.12	0.50	Pass
HT40	MCS0	2	3	2422	36.50	36.50	35.12	35.12	0.50	Pass
HT40	MCS0	2	6	2437	36.60	36.40	35.08	35.04	0.50	Pass
HT40	MCS0	2	9	2452	36.50	36.60	35.76	35.76	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 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

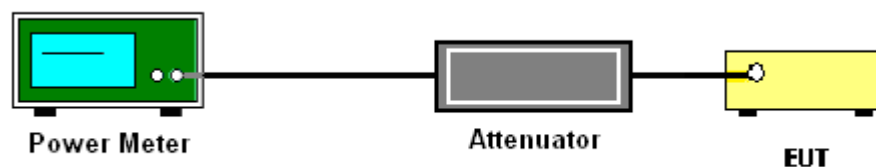
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
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 :	Hank Hsu and Jacob Yu	Temperature :	23.5~24.5°C
		Relative Humidity :	53~54.5%

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	21.00	21.10		30.00	30.00	0.85	2.05	21.85	23.15	36.00	36.00	Pass
11b	1Mbps	1	6	2437	21.00	21.10		30.00	30.00	0.85	2.05	21.85	23.15	36.00	36.00	Pass
11b	1Mbps	1	11	2462	19.90	21.00		30.00	30.00	0.85	2.05	20.75	23.05	36.00	36.00	Pass
11g	6Mbps	1	1	2412	19.50	19.40		30.00	30.00	0.85	2.05	20.35	21.45	36.00	36.00	Pass
11g	6Mbps	1	6	2437	19.20	19.30		30.00	30.00	0.85	2.05	20.05	21.35	36.00	36.00	Pass
11g	6Mbps	1	11	2462	17.90	19.20		30.00	30.00	0.85	2.05	18.75	21.25	36.00	36.00	Pass
HT20	MCS0	1	1	2412	18.60	17.60		30.00	30.00	0.85	2.05	19.45	19.65	36.00	36.00	Pass
HT20	MCS0	1	6	2437	18.70	18.80		30.00	30.00	0.85	2.05	19.55	20.85	36.00	36.00	Pass
HT20	MCS0	1	11	2462	17.00	18.90		30.00	30.00	0.85	2.05	17.85	20.95	36.00	36.00	Pass
HT40	MCS0	1	3	2422	17.70	14.80		30.00	30.00	0.85	2.05	18.55	16.85	36.00	36.00	Pass
HT40	MCS0	1	6	2437	17.80	17.60		30.00	30.00	0.85	2.05	18.65	19.65	36.00	36.00	Pass
HT40	MCS0	1	9	2452	16.00	15.90		30.00	30.00	0.85	2.05	16.85	17.95	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	
11b	1Mbps	2	1	2412	21.00	20.50	23.77	30.00		2.05	25.82	36.00	36.00	36.00	Pass	
11b	1Mbps	2	6	2437	20.80	20.60	23.71	30.00		2.05	25.76	36.00	36.00	36.00	Pass	
11b	1Mbps	2	11	2462	21.00	20.90	23.96	30.00		2.05	26.01	36.00	36.00	36.00	Pass	
11g	6Mbps	2	1	2412	17.00	16.60	19.81	30.00		2.05	21.86	36.00	36.00	36.00	Pass	
11g	6Mbps	2	6	2437	19.30	18.90	22.11	30.00		2.05	24.16	36.00	36.00	36.00	Pass	
11g	6Mbps	2	11	2462	18.10	17.60	20.87	30.00		2.05	22.92	36.00	36.00	36.00	Pass	
HT20	MCS0	2	1	2412	16.70	16.10	19.42	30.00		2.05	21.47	36.00	36.00	36.00	Pass	
HT20	MCS0	2	6	2437	18.70	18.40	21.56	30.00		2.05	23.61	36.00	36.00	36.00	Pass	
HT20	MCS0	2	11	2462	17.00	16.50	19.77	30.00		2.05	21.82	36.00	36.00	36.00	Pass	
HT40	MCS0	2	3	2422	14.50	13.80	17.17	30.00		2.05	19.22	36.00	36.00	36.00	Pass	
HT40	MCS0	2	6	2437	18.10	17.60	20.87	30.00		2.05	22.92	36.00	36.00	36.00	Pass	
HT40	MCS0	2	9	2452	15.50	15.10	18.31	30.00		2.05	20.36	36.00	36.00	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 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

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

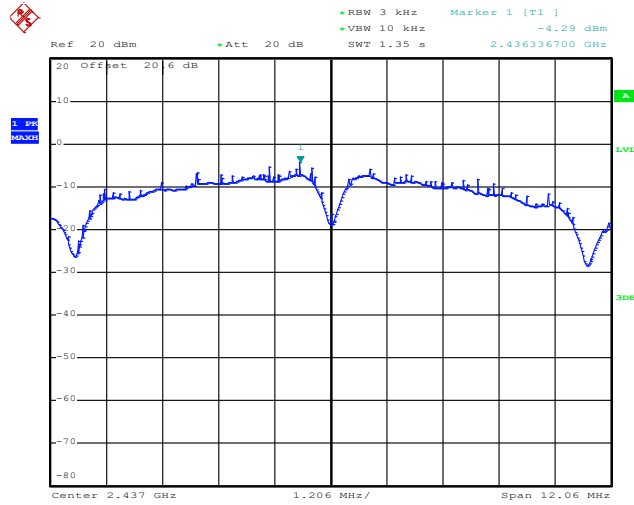


2.4GHz Band MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant1	Ant2	Worse + 3.01	Ant1	Ant2	Ant1	Ant2	
11b	1Mbps	2	1	2412	-5.19	-6.21	-2.18	4.48		8.00		Pass
11b	1Mbps	2	6	2437	-4.29	-4.79	-1.28	4.48		8.00		Pass
11b	1Mbps	2	11	2462	-6.38	-5.20	-2.19	4.48		8.00		Pass
11g	6Mbps	2	1	2412	-11.56	-12.31	-8.55	4.48		8.00		Pass
11g	6Mbps	2	6	2437	-9.21	-9.52	-6.20	4.48		8.00		Pass
11g	6Mbps	2	11	2462	-9.54	-9.77	-6.53	4.48		8.00		Pass
HT20	MCS0	2	1	2412	-11.92	-12.58	-8.91	4.48		8.00		Pass
HT20	MCS0	2	6	2437	-8.62	-9.06	-5.61	4.48		8.00		Pass
HT20	MCS0	2	11	2462	-10.46	-10.42	-7.41	4.48		8.00		Pass
HT40	MCS0	2	3	2422	-12.54	-14.11	-9.53	4.48		8.00		Pass
HT40	MCS0	2	6	2437	-10.28	-11.00	-7.27	4.48		8.00		Pass
HT40	MCS0	2	9	2452	-14.34	-14.53	-11.33	4.48		8.00		Pass

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

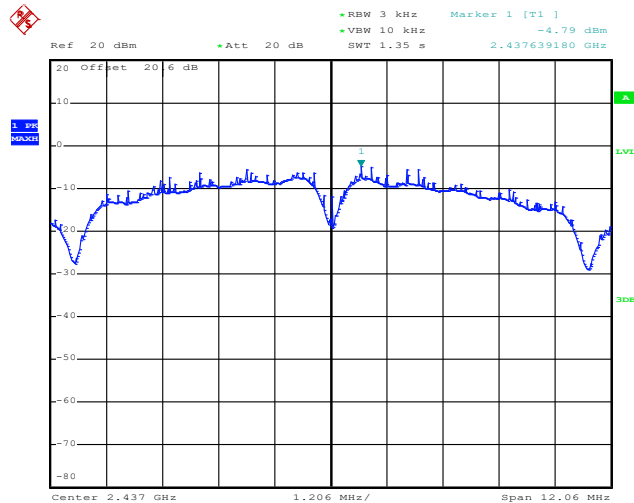


Worst Case Power Density (dBm/3kHz) for MIMO Ant. 1



Date: 2.SEP.2020 12:01:30

Worst Case Power Density (dBm/3kHz) for MIMO Ant. 2



Date: 2.SEP.2020 12:06:11

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

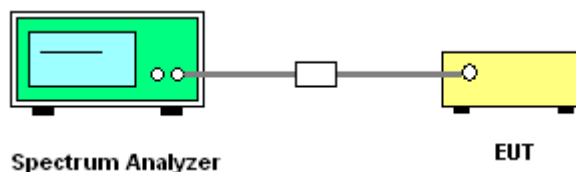
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



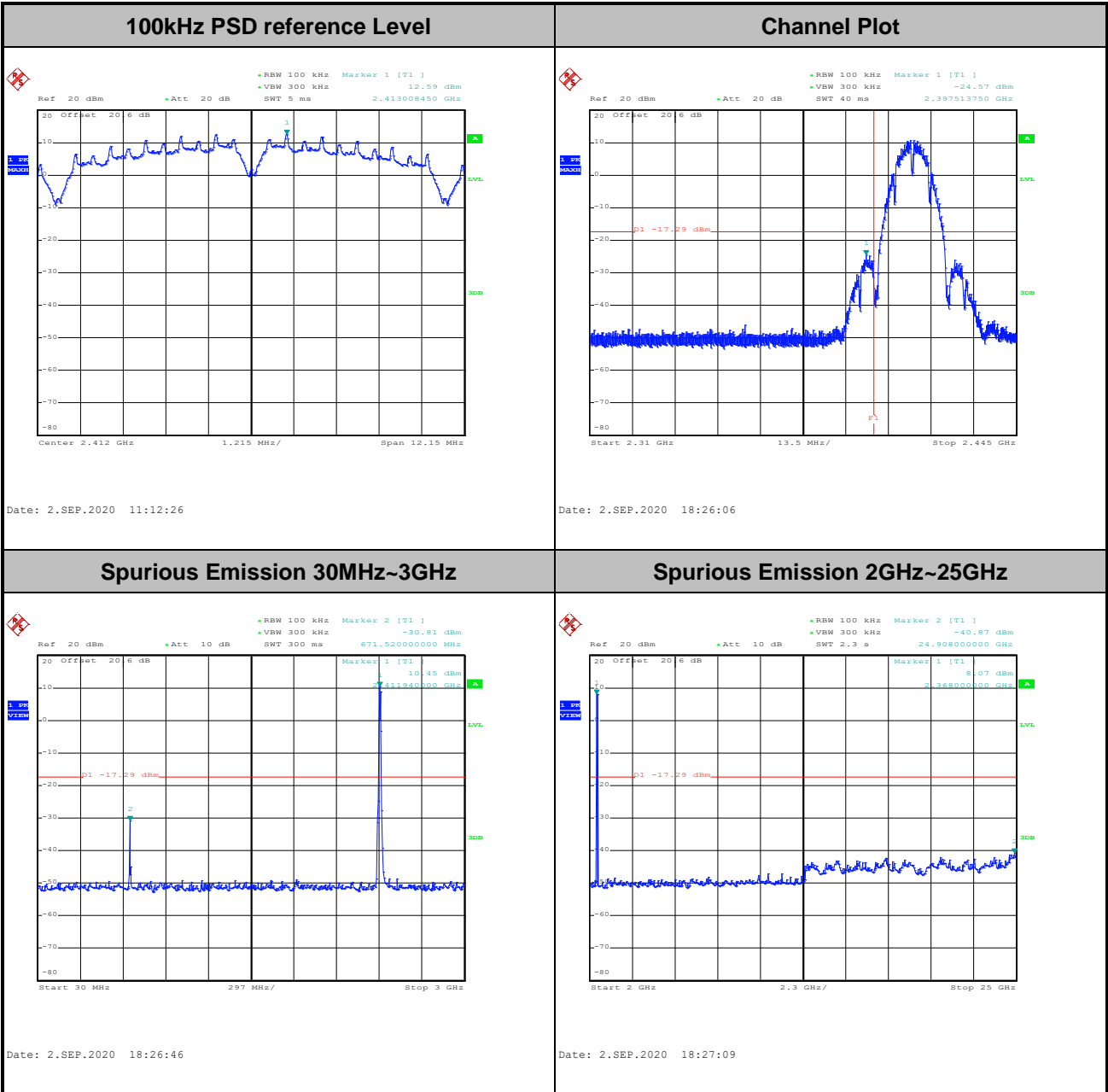


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Hank Hsu and Jacob Yu	Temperature :	23.5~24.5°C
		Relative Humidity :	53~54.5%

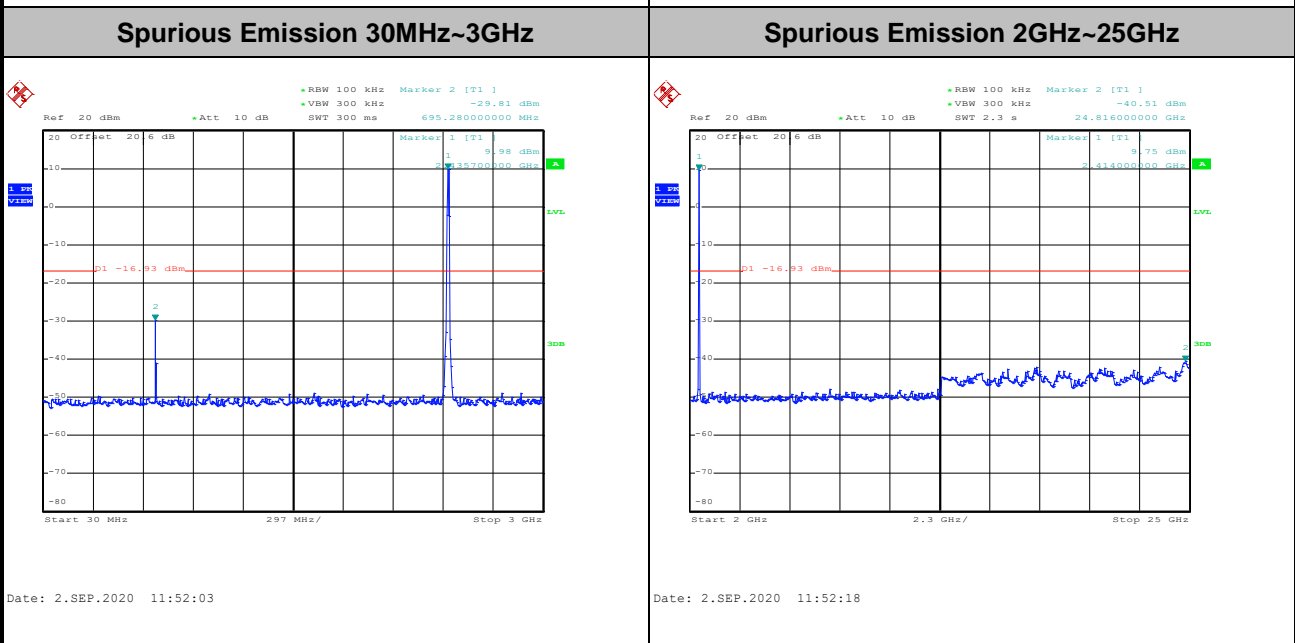
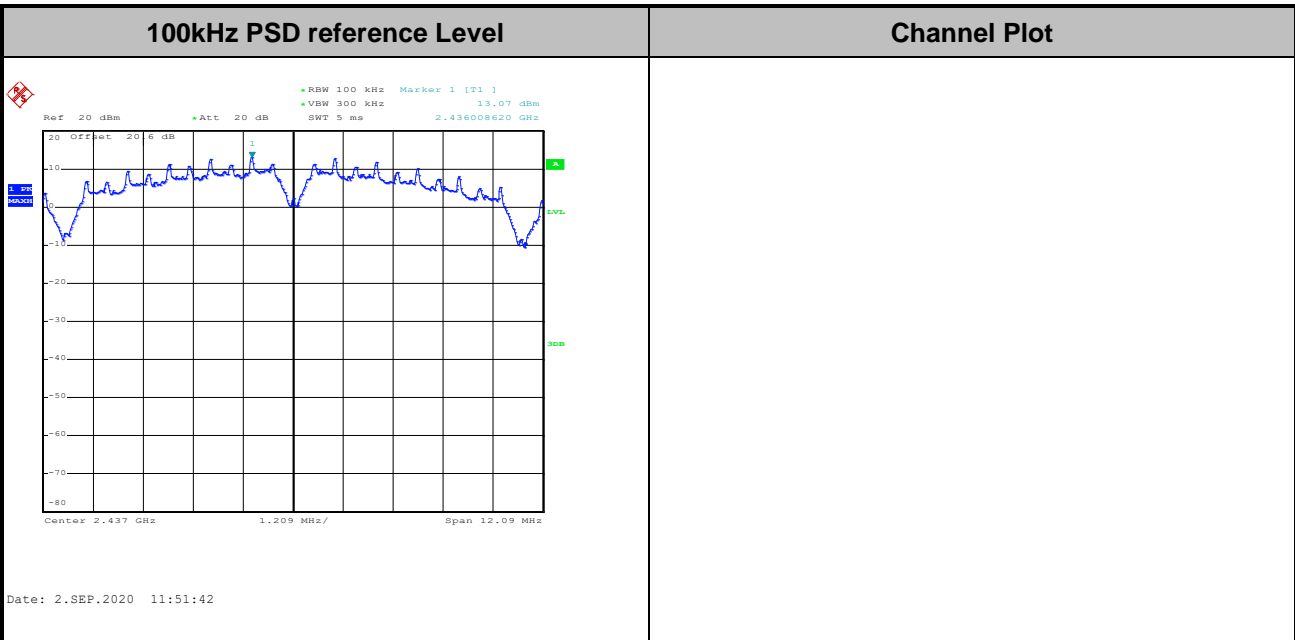
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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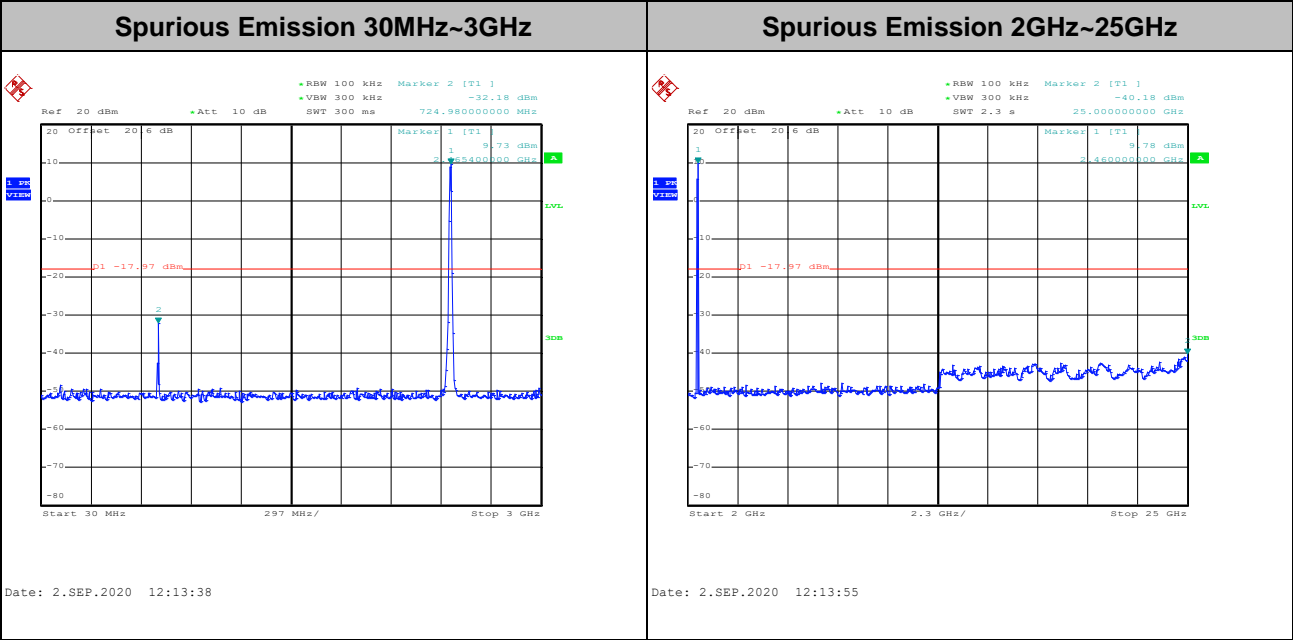
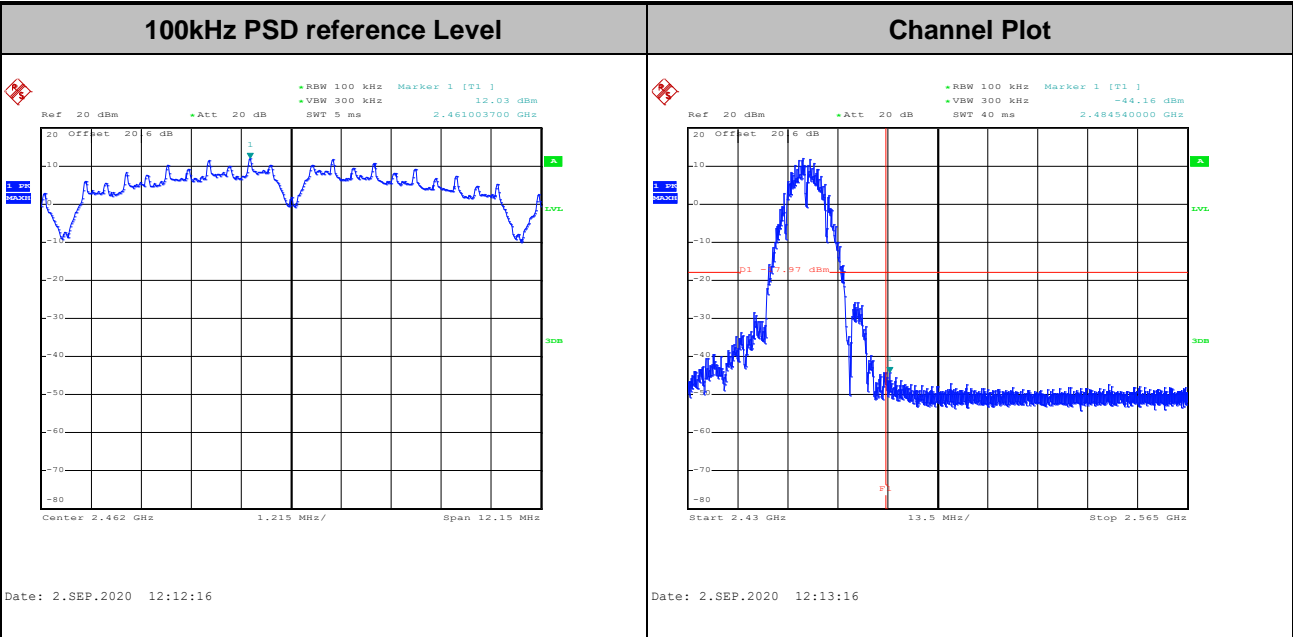


Test Mode :	802.11b	Test Channel :	06
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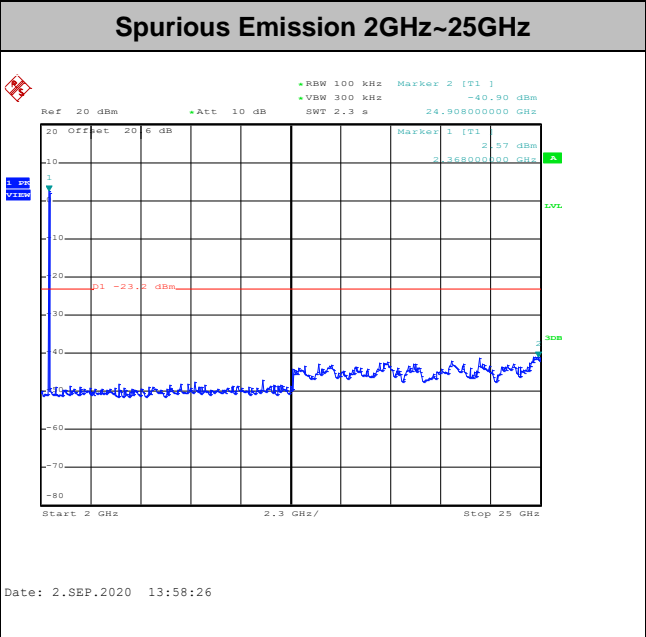
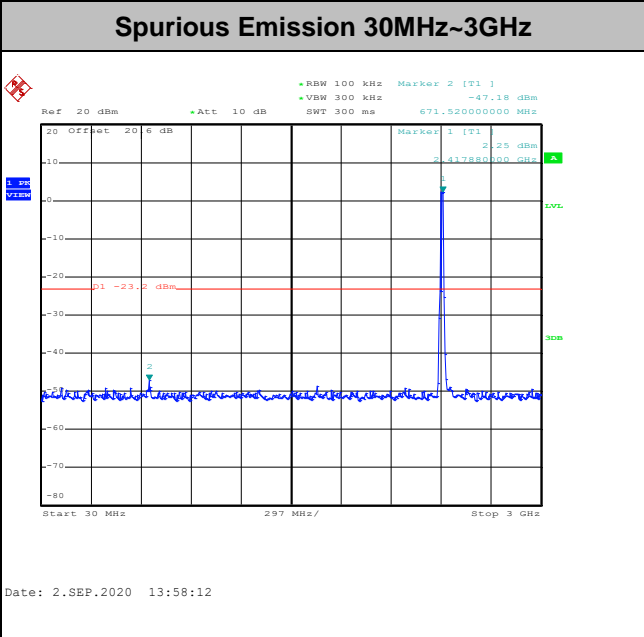
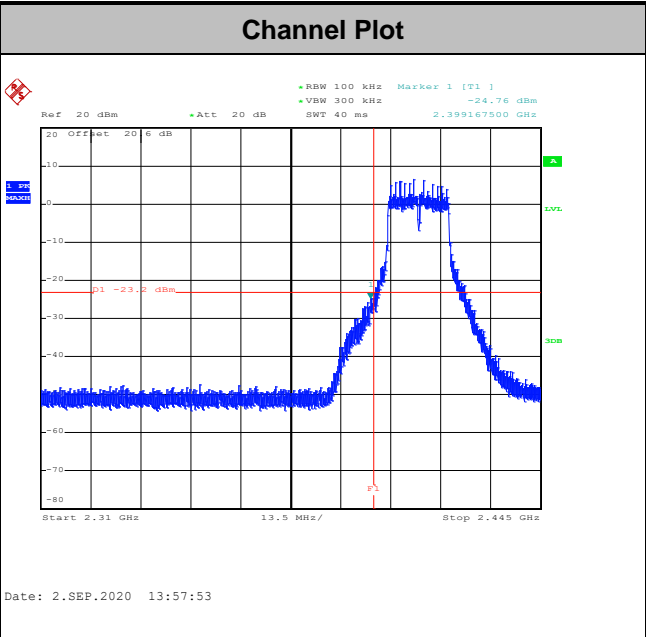
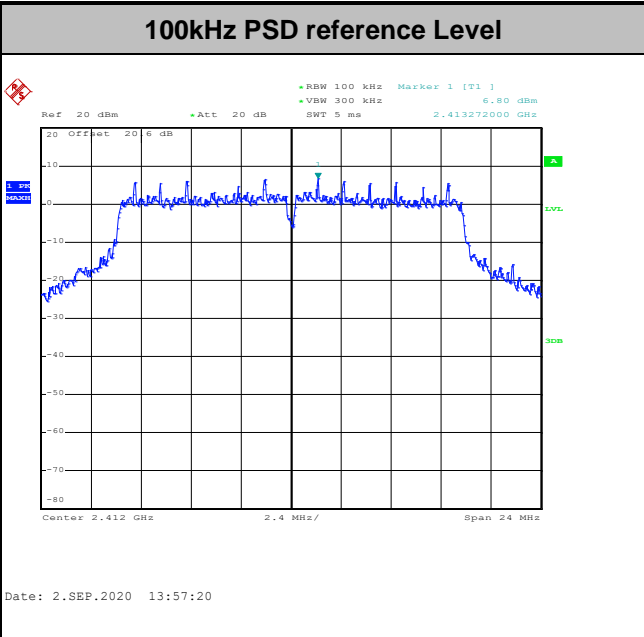


Test Mode :	802.11b	Test Channel :	11
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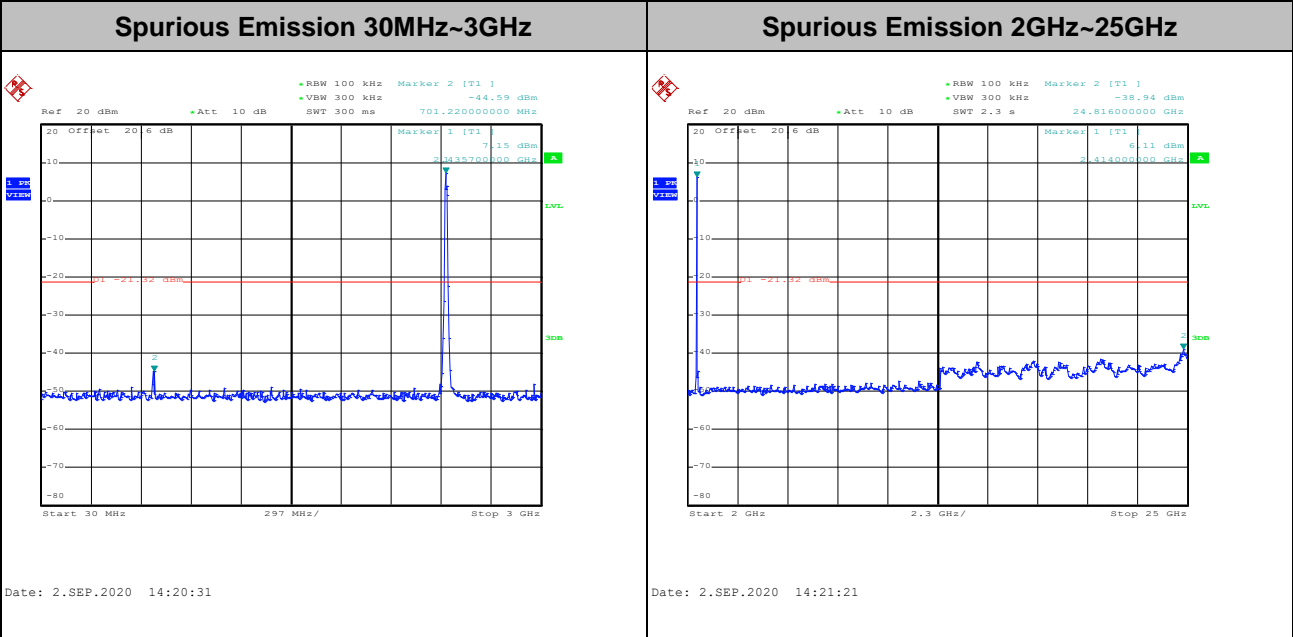
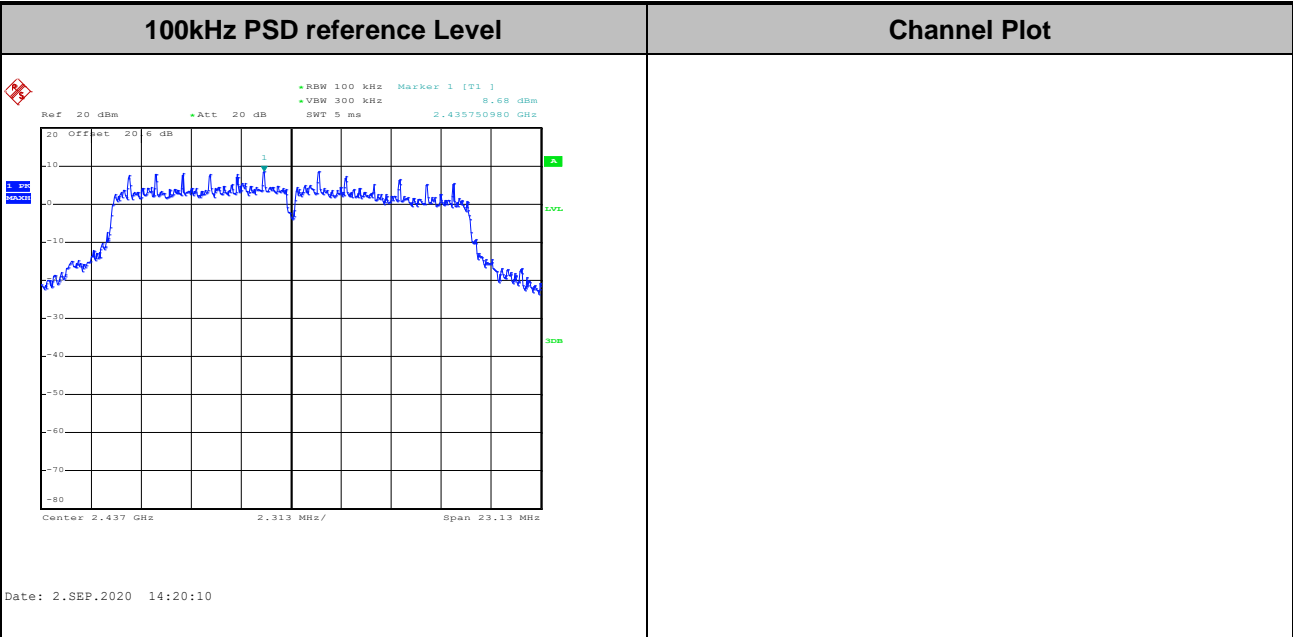


Test Mode : 802.11g Test Channel : 01



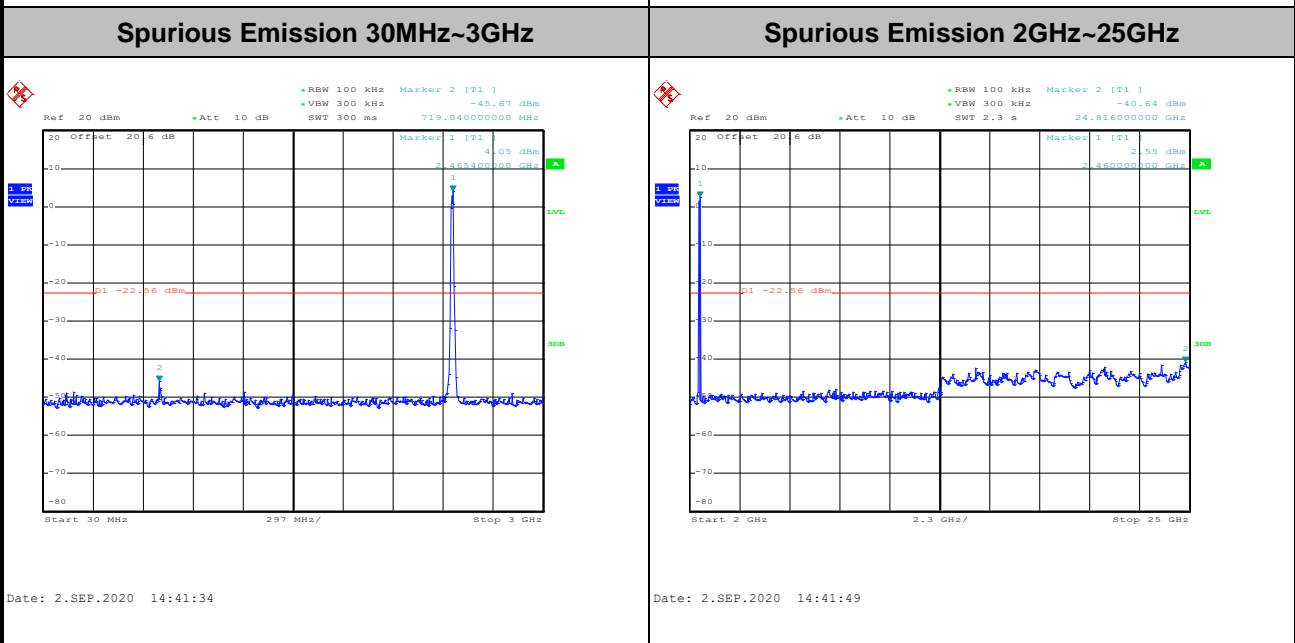
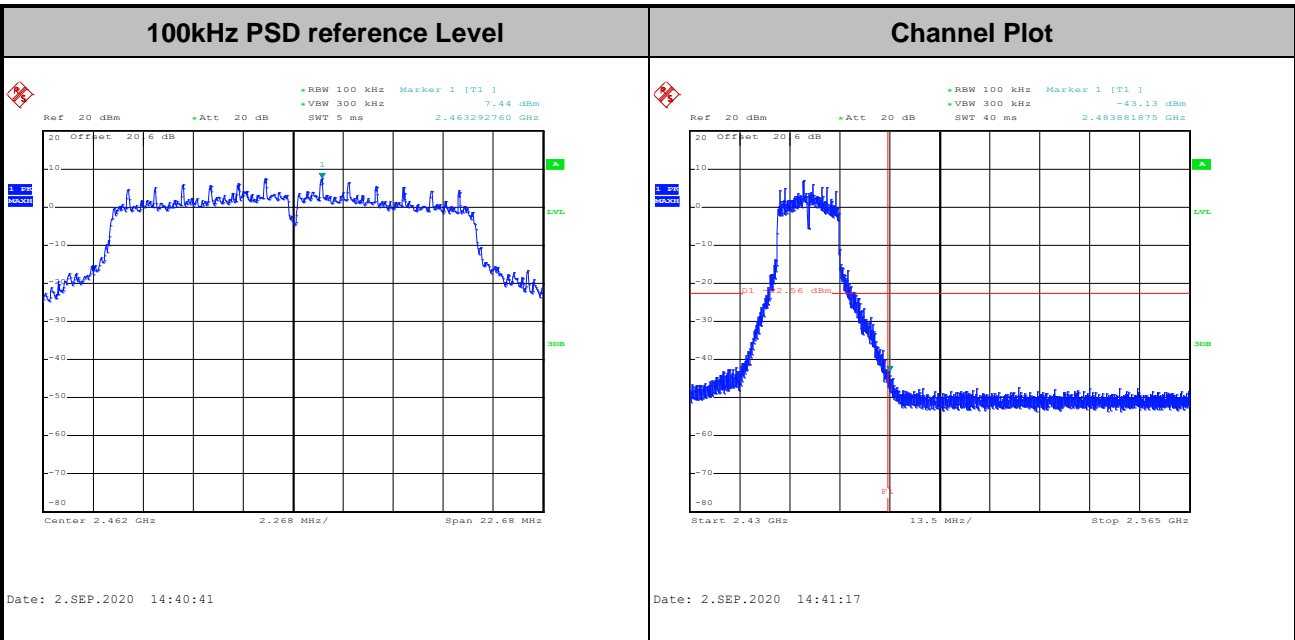


Test Mode :	802.11g	Test Channel :	06
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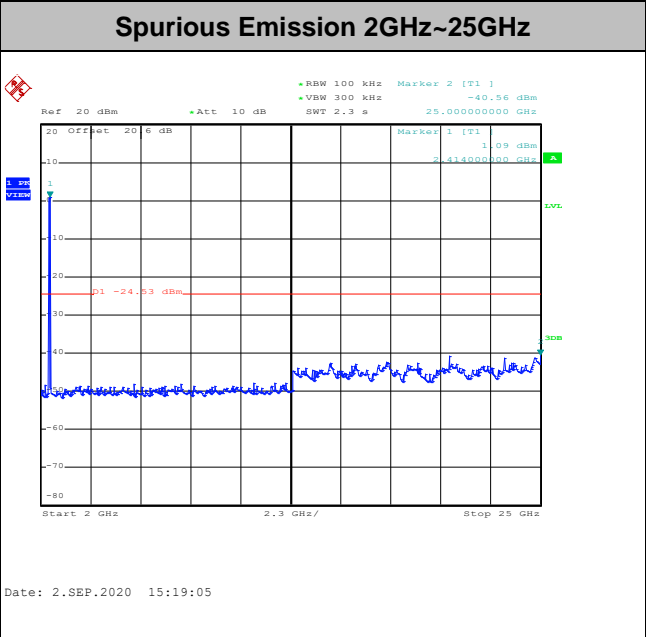
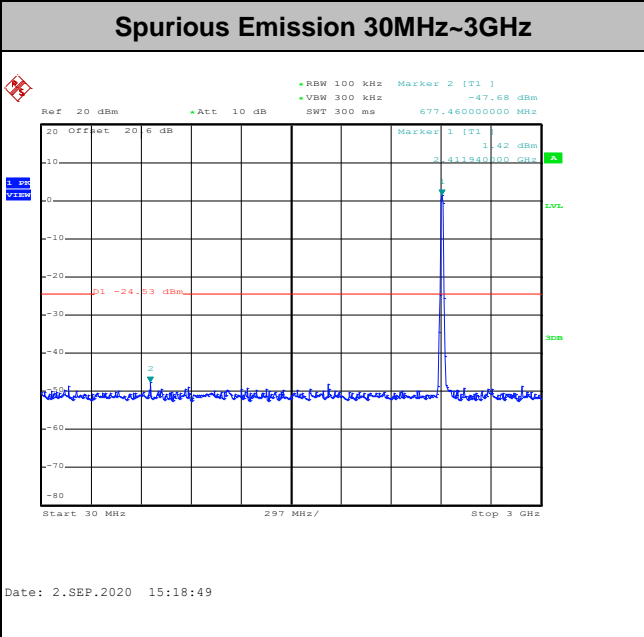
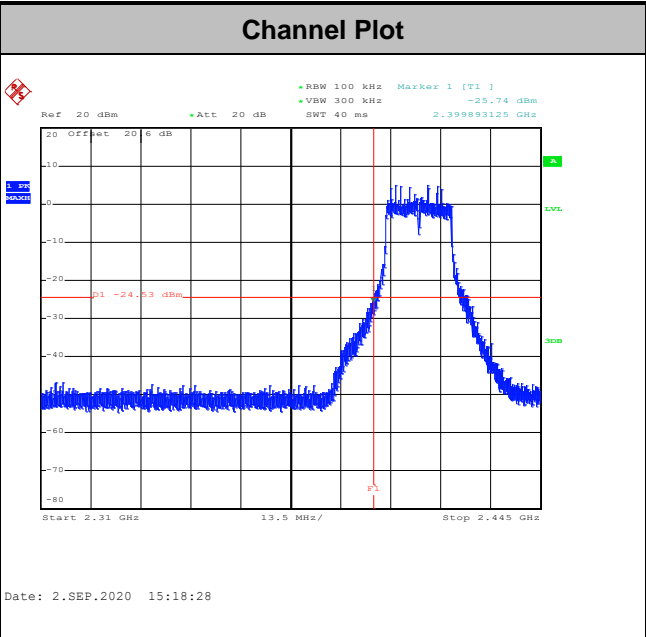
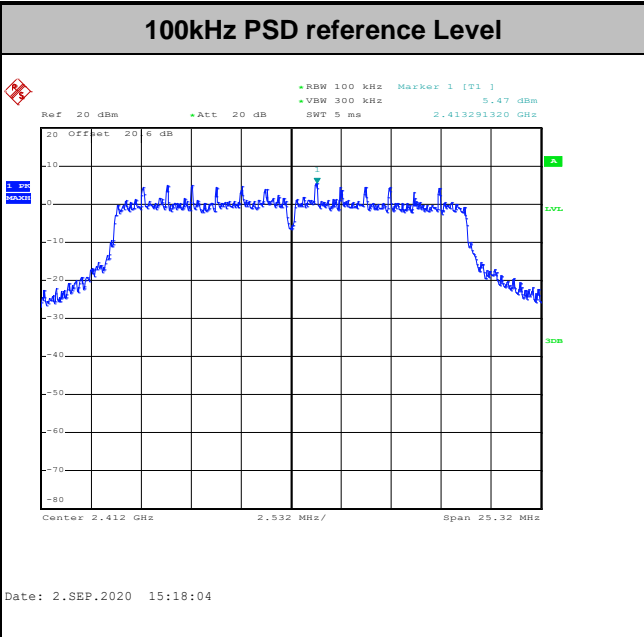


Test Mode :	802.11g	Test Channel :	11
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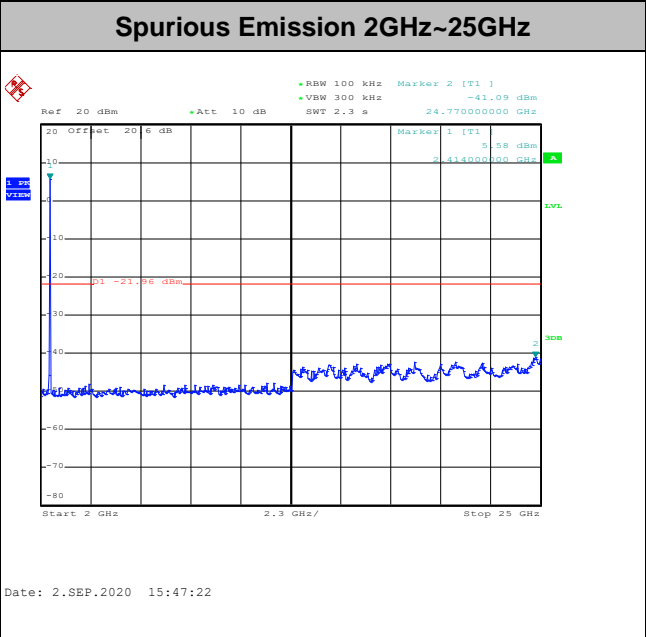
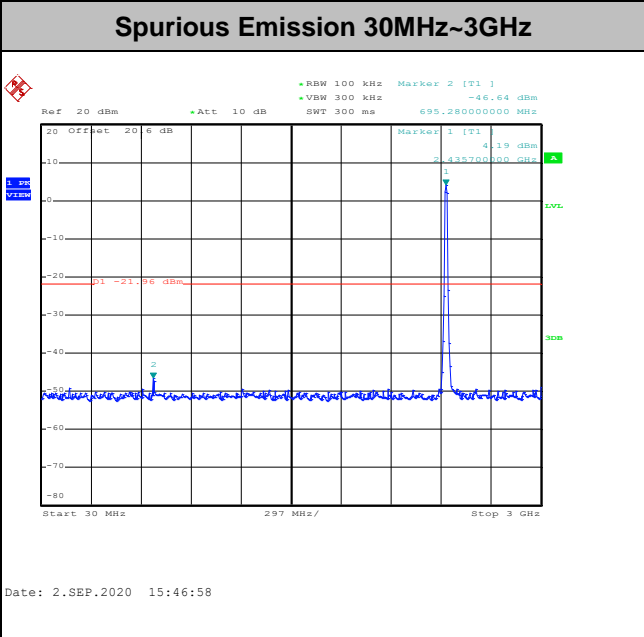
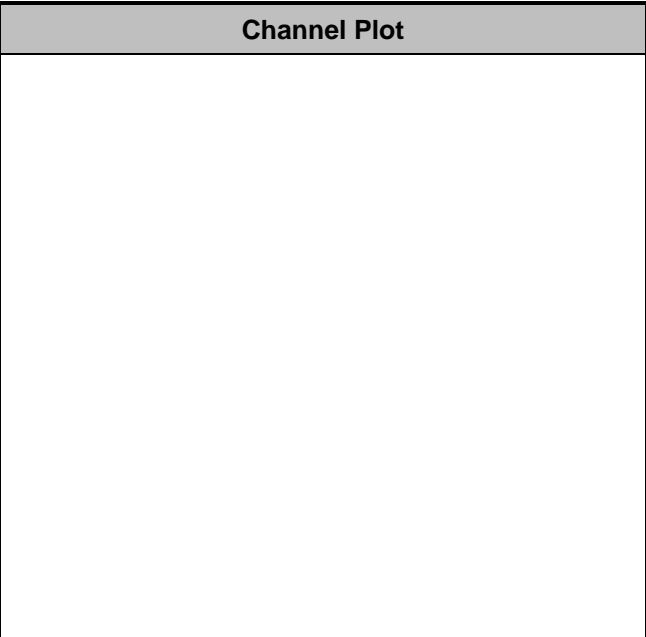
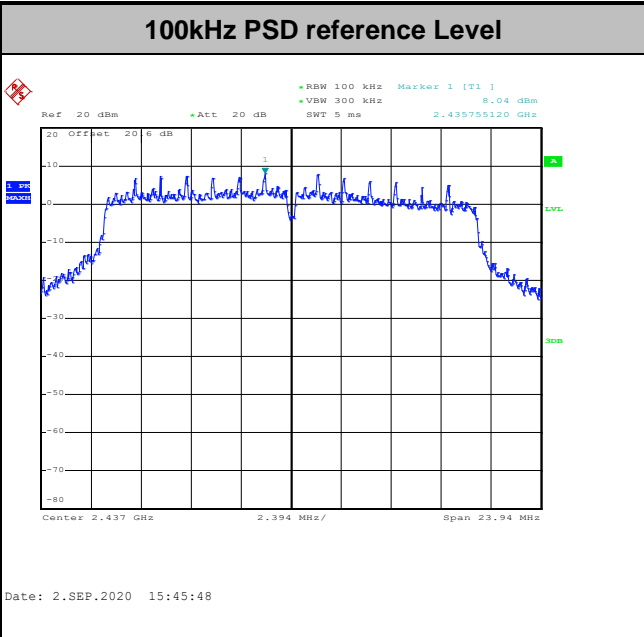


Test Mode :	802.11n HT20	Test Channel :	01
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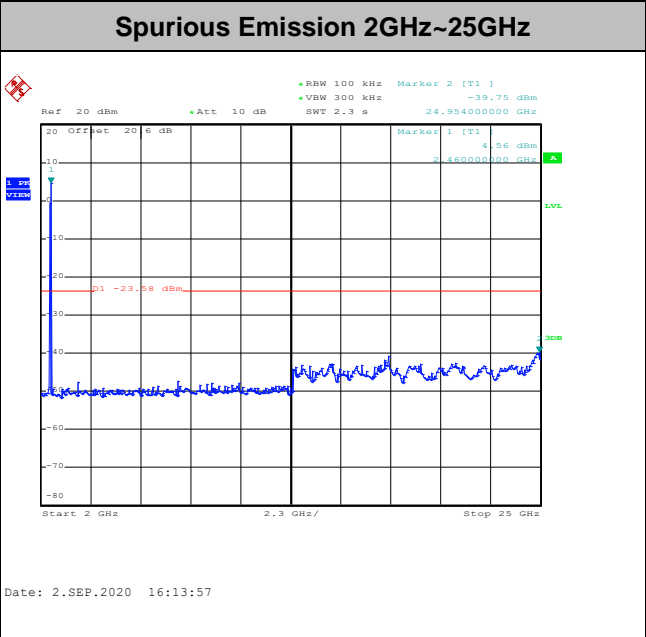
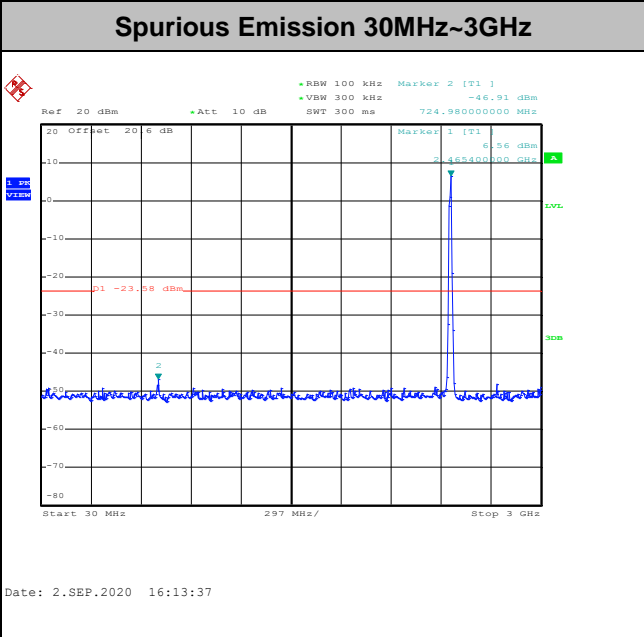
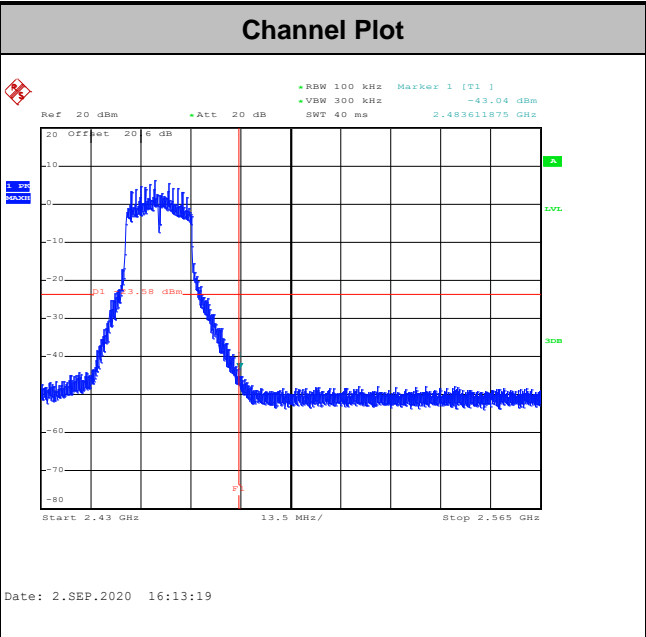
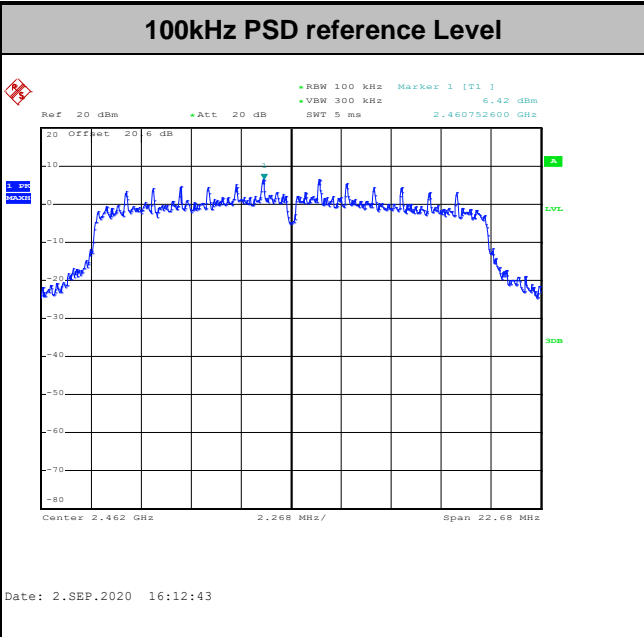


Test Mode :	802.11n HT20	Test Channel :	06
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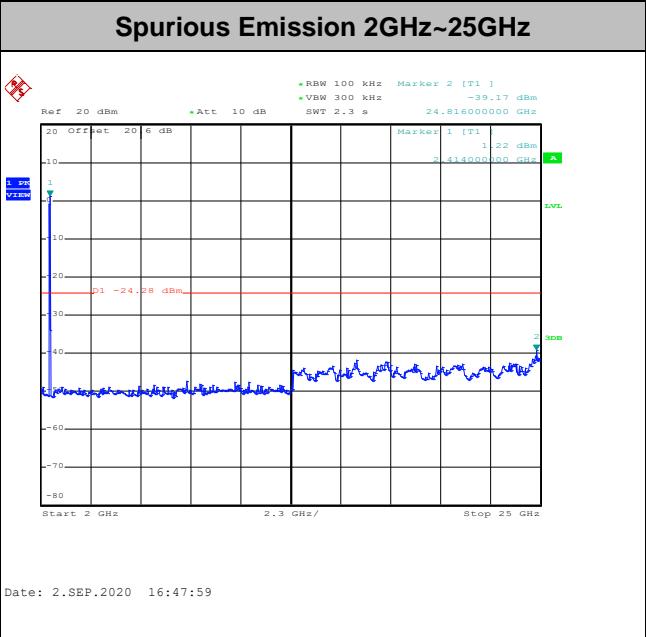
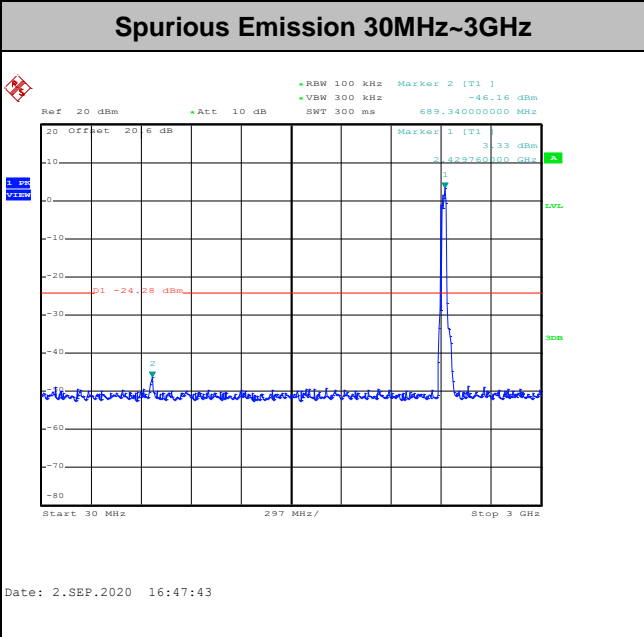
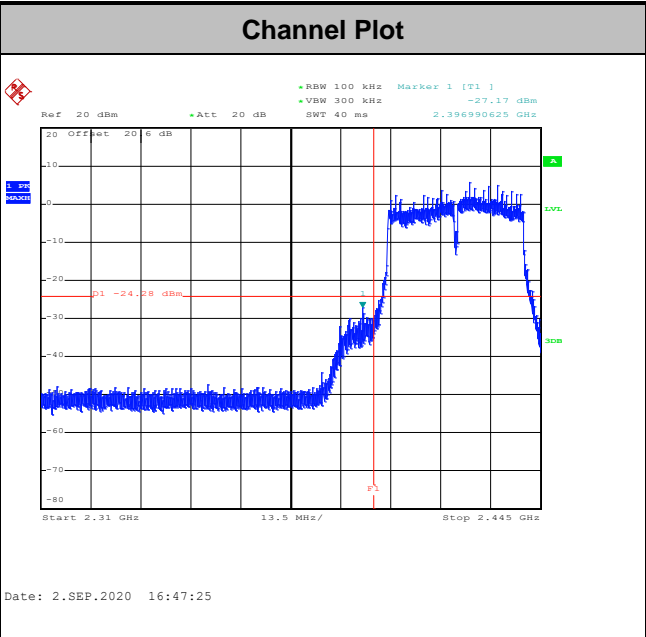
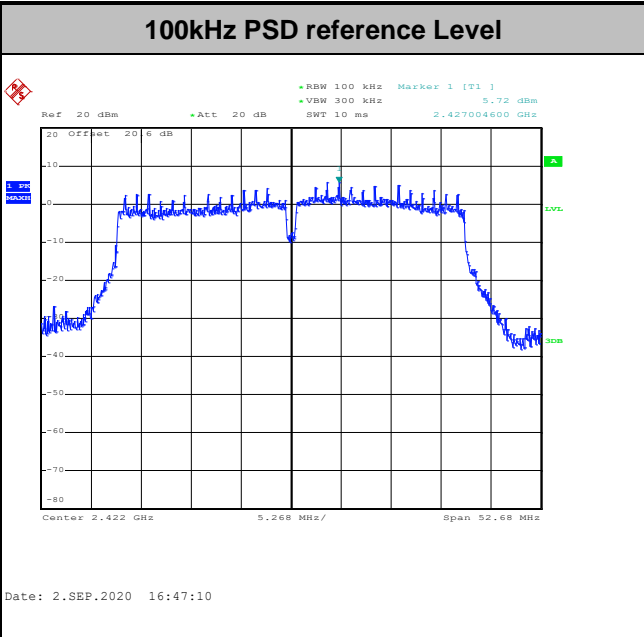


Test Mode :	802.11n HT20	Test Channel :	11
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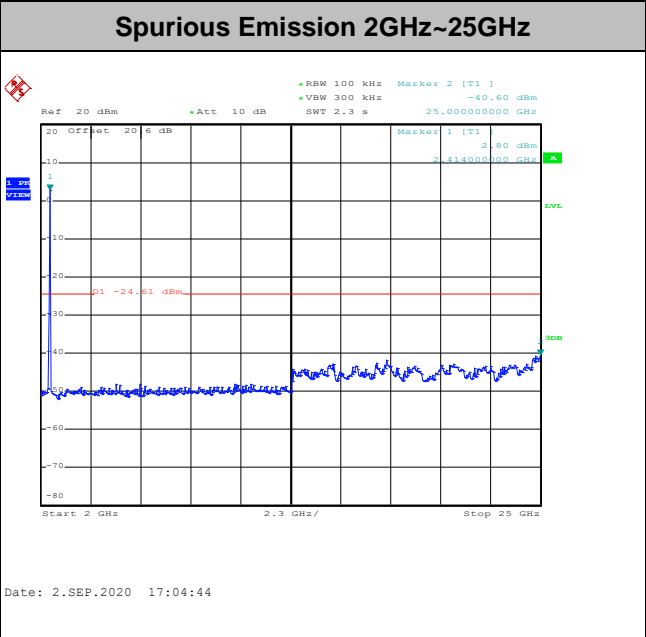
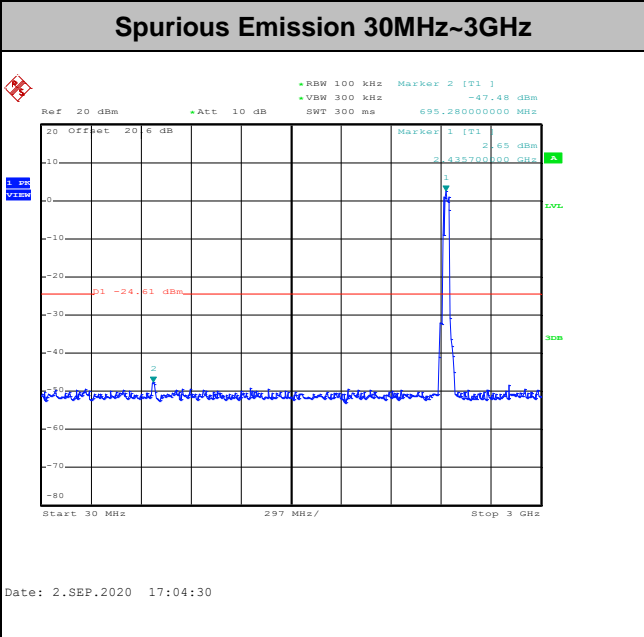
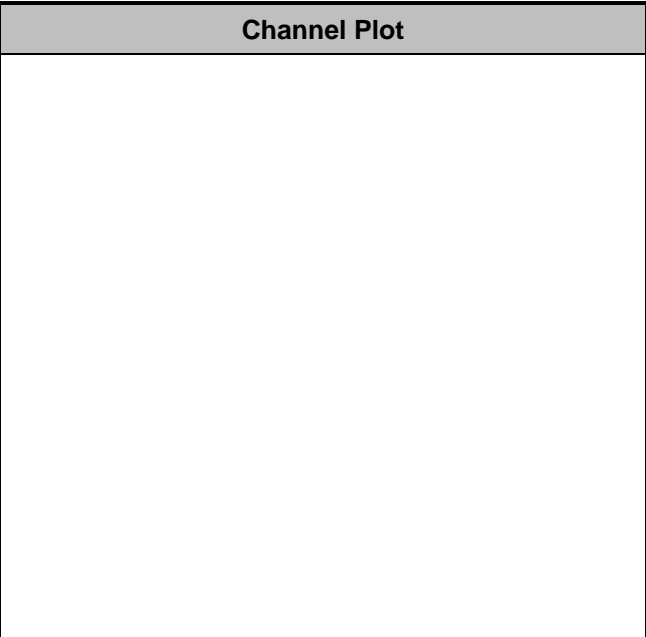
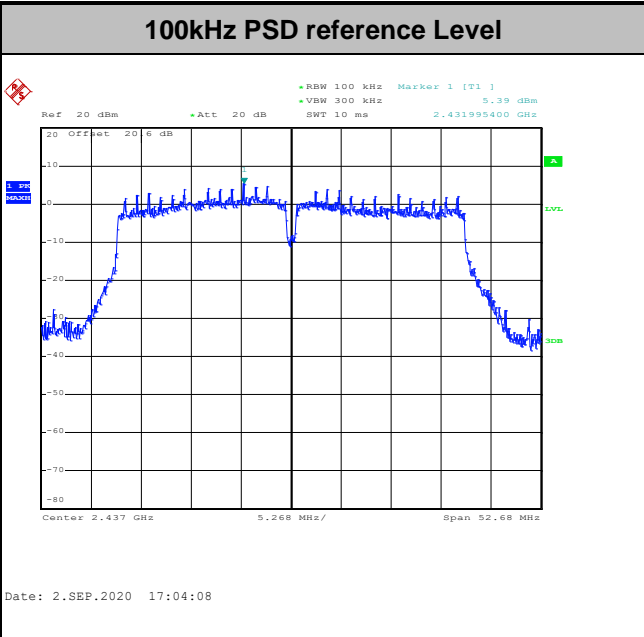


Test Mode : 802.11n HT40 Test Channel : 03



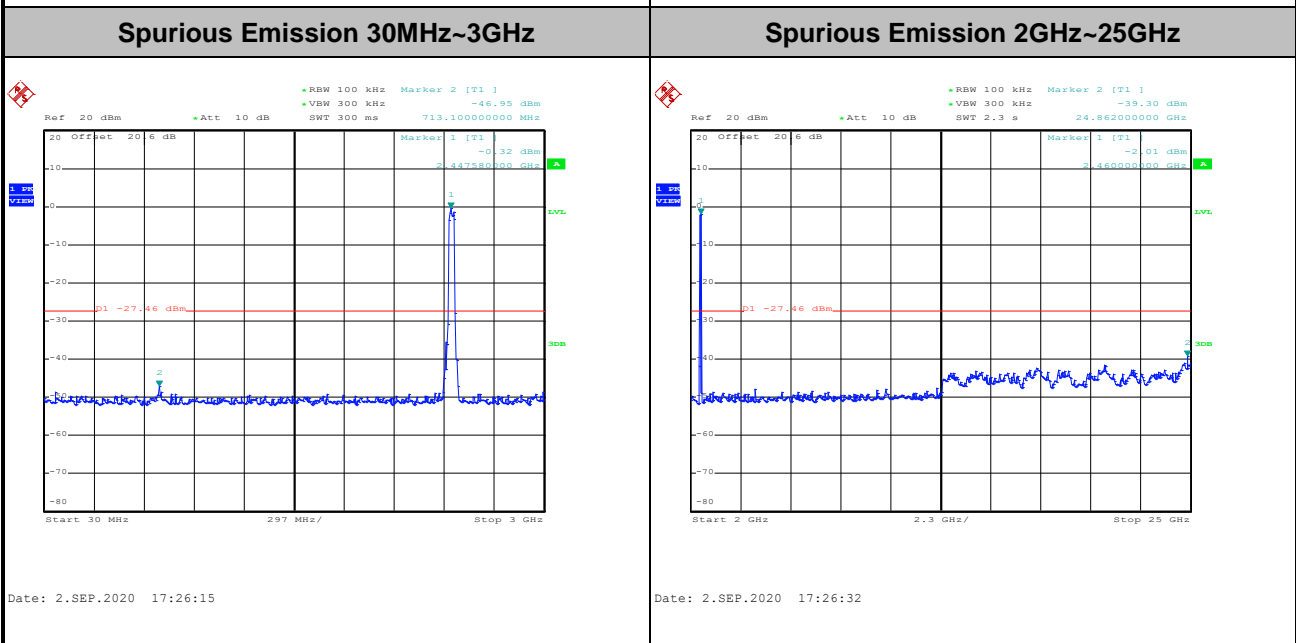
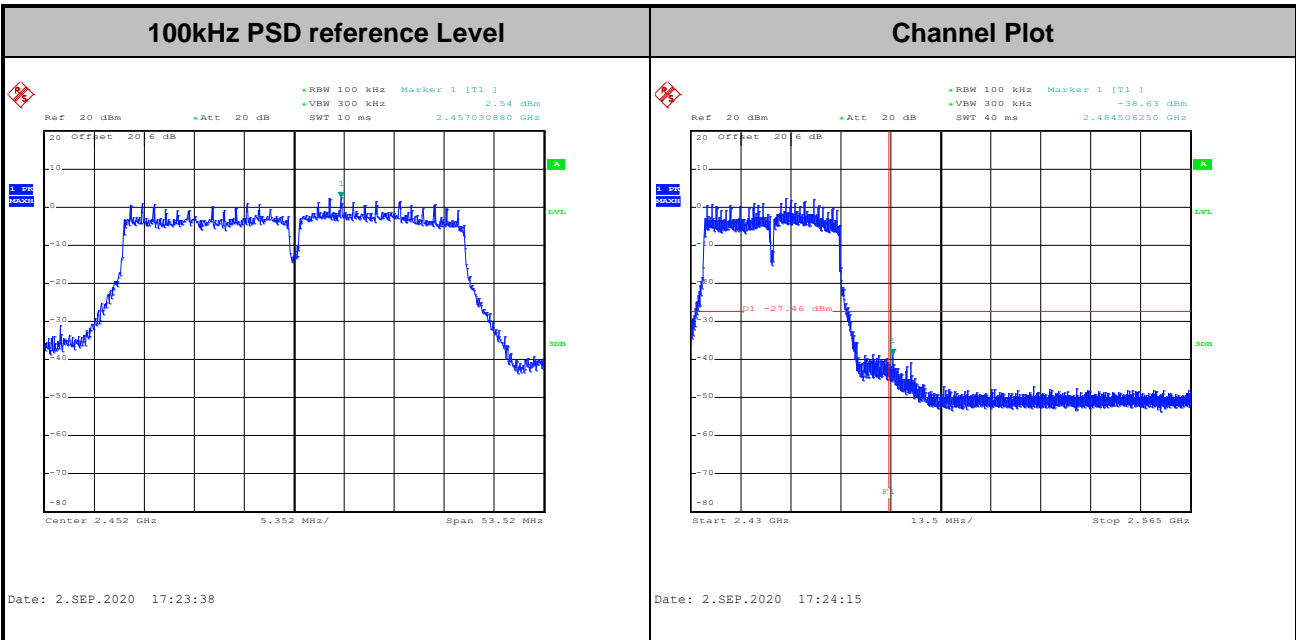


Test Mode :	802.11n HT40	Test Channel :	06
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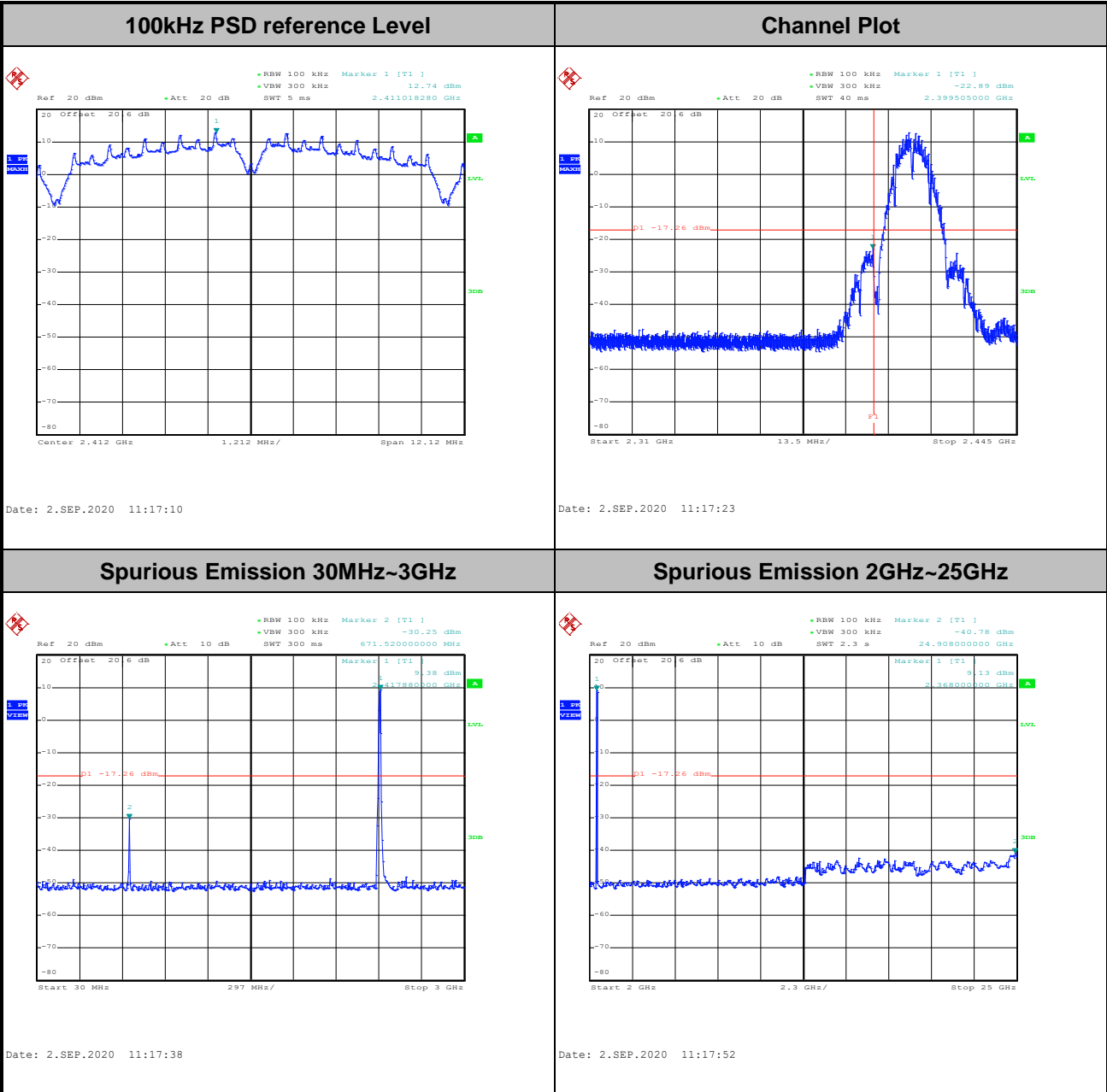
Test Mode :	802.11n HT40	Test Channel :	09
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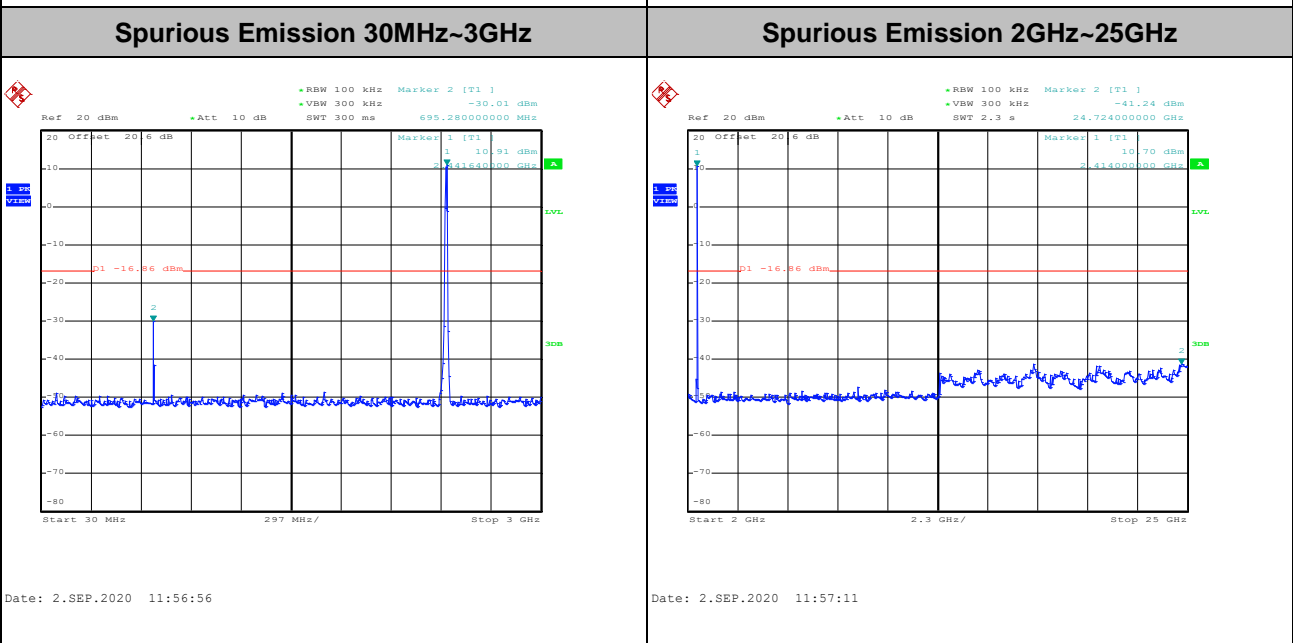
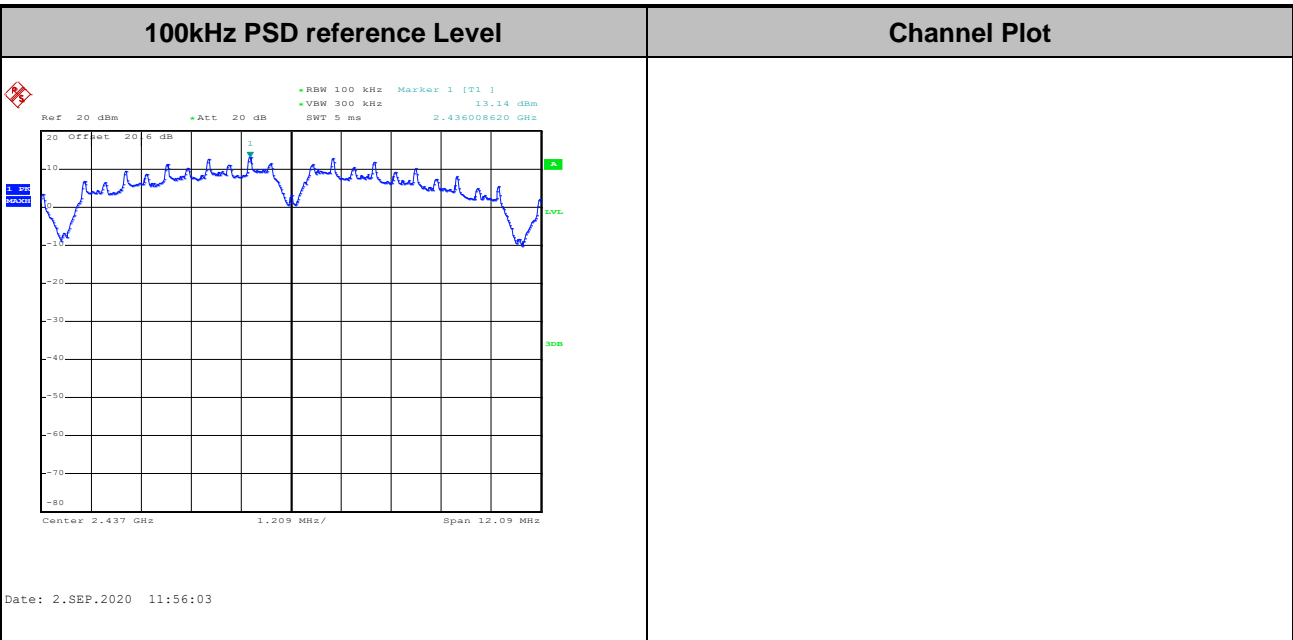
Number of TX = 1, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
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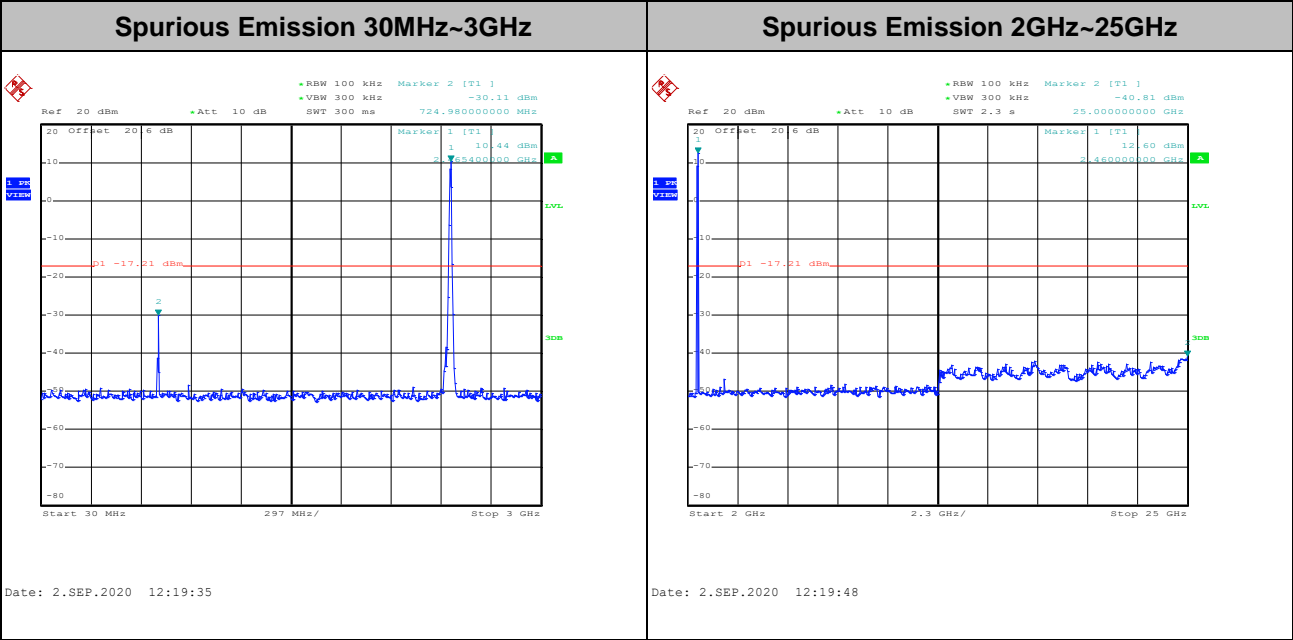
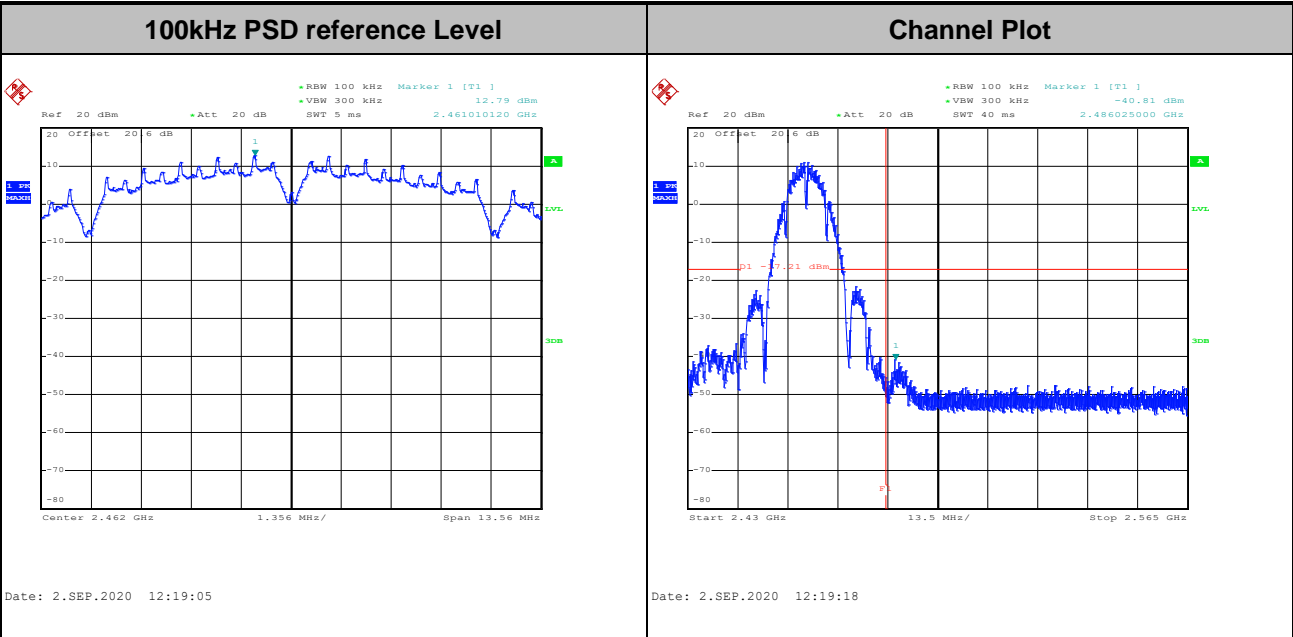


Test Mode :	802.11b	Test Channel :	06
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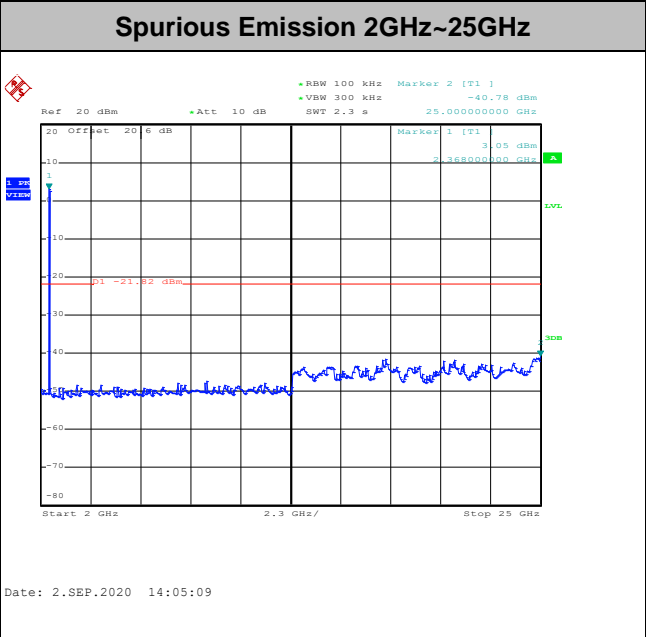
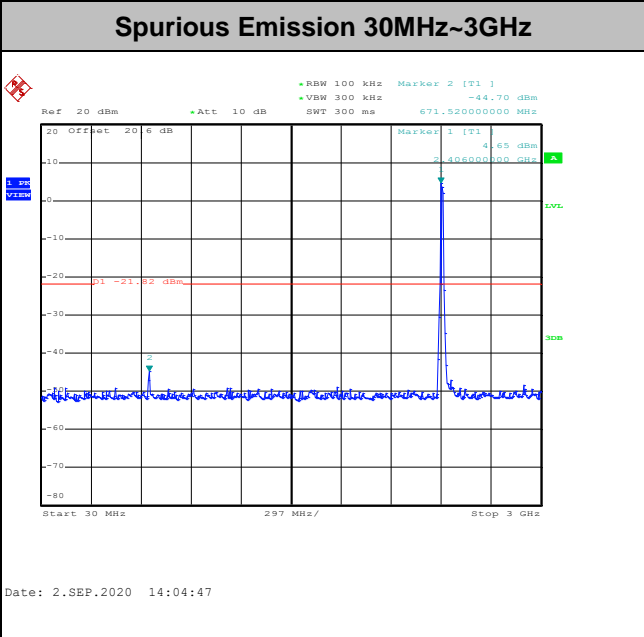
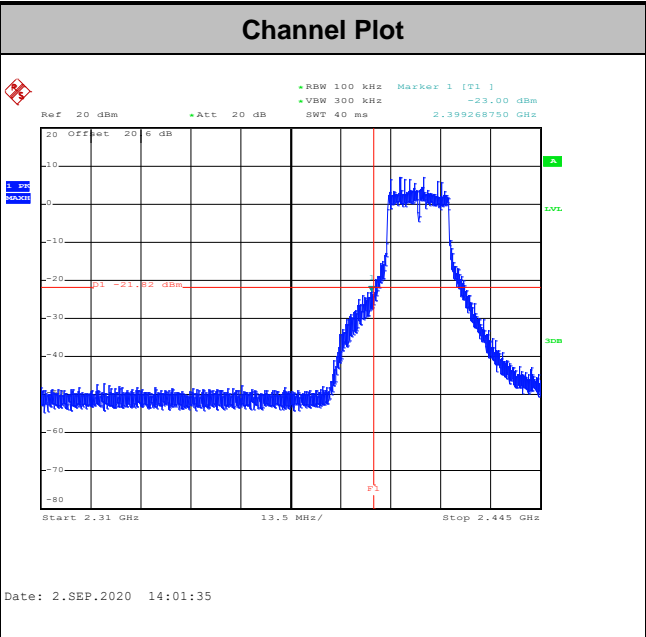
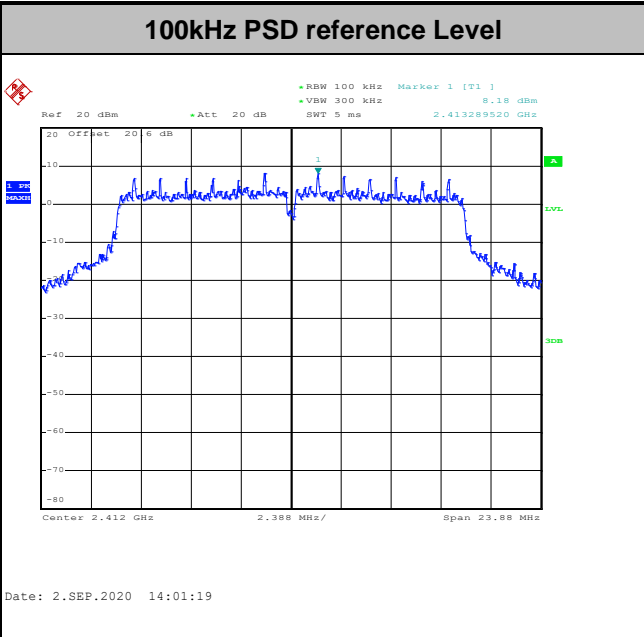


Test Mode :	802.11b	Test Channel :	11
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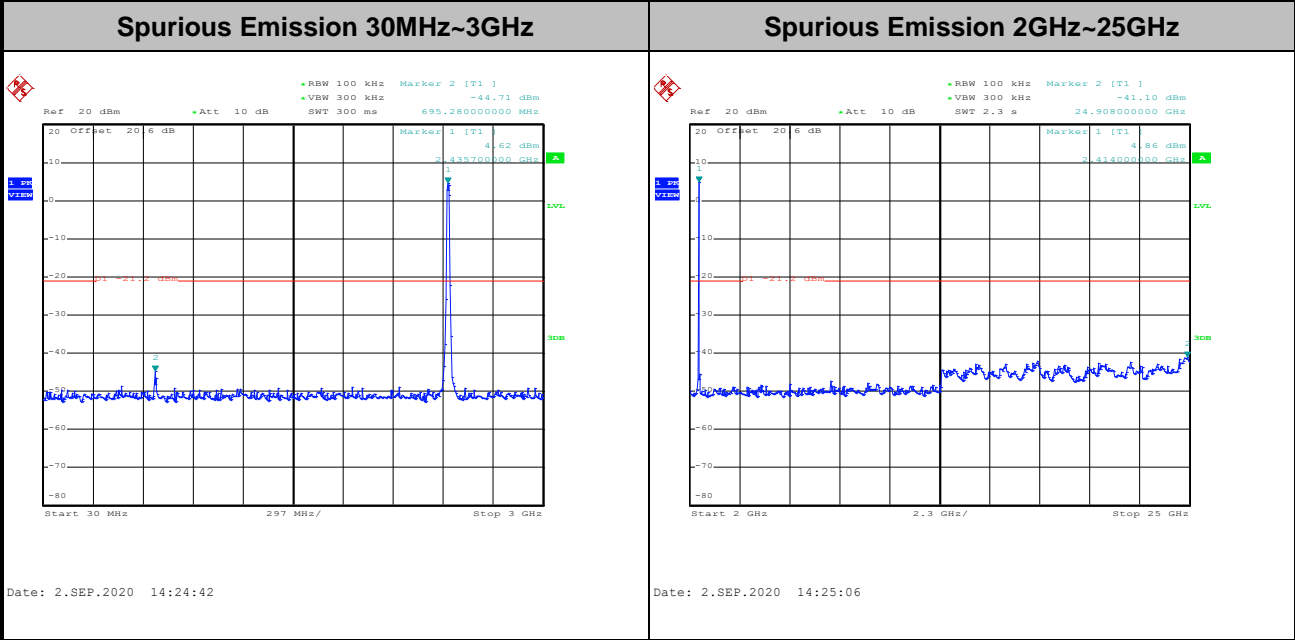
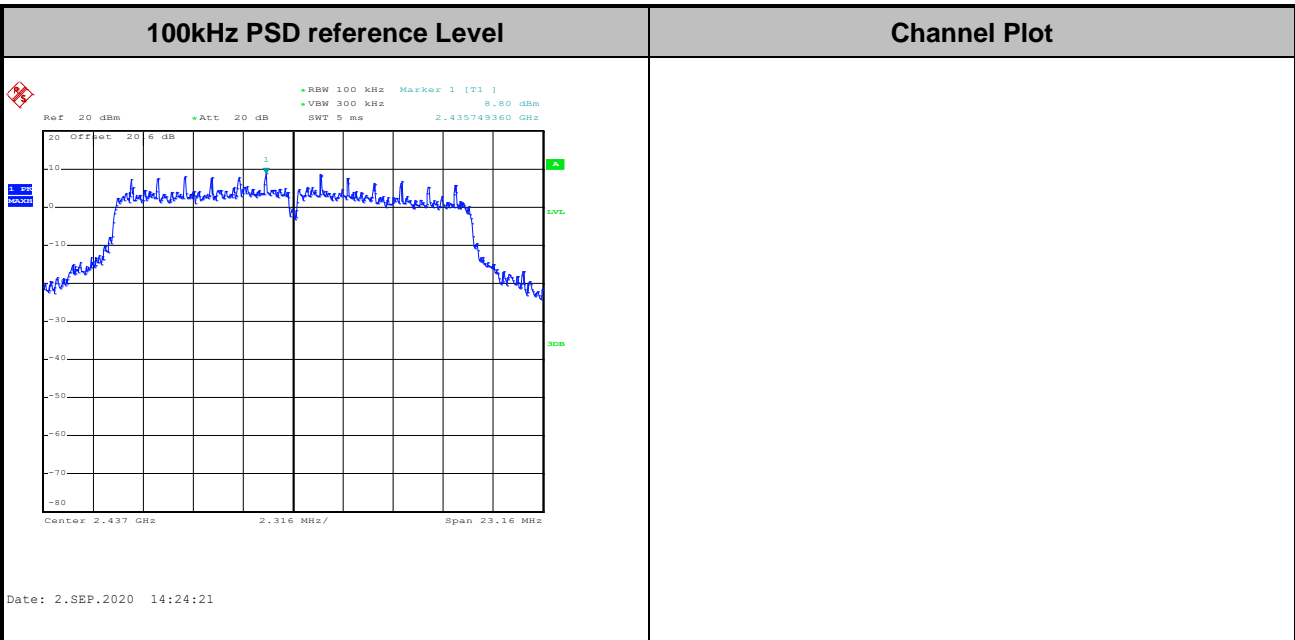


Test Mode : 802.11g Test Channel : 01



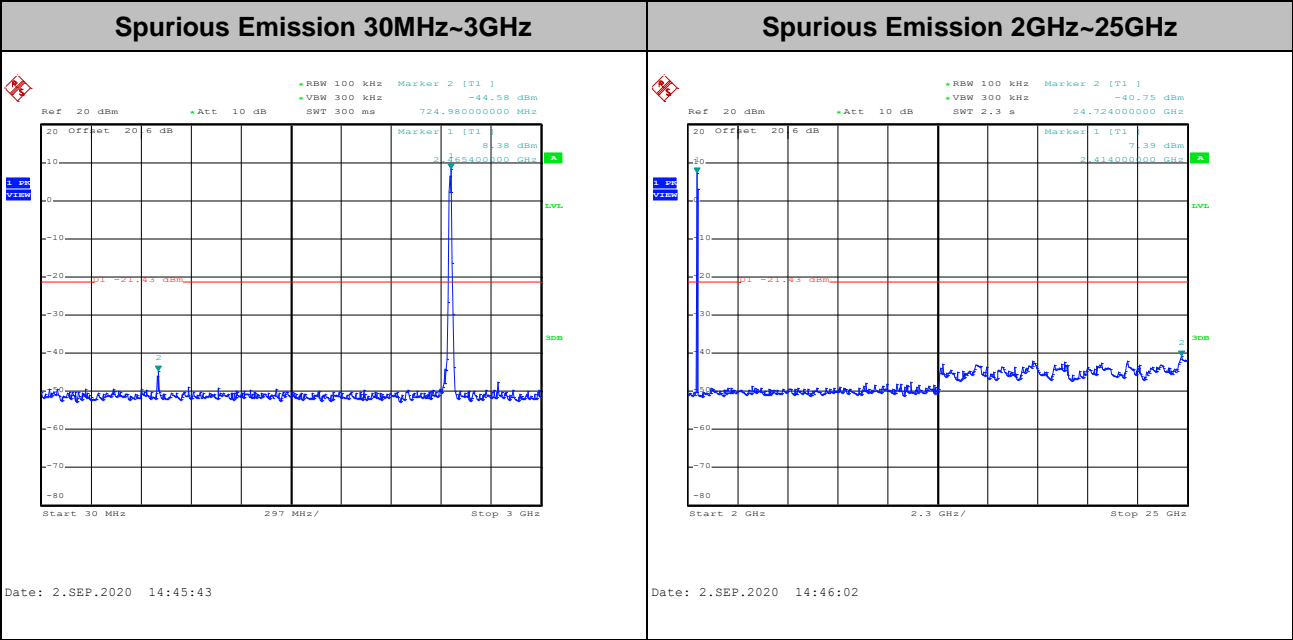
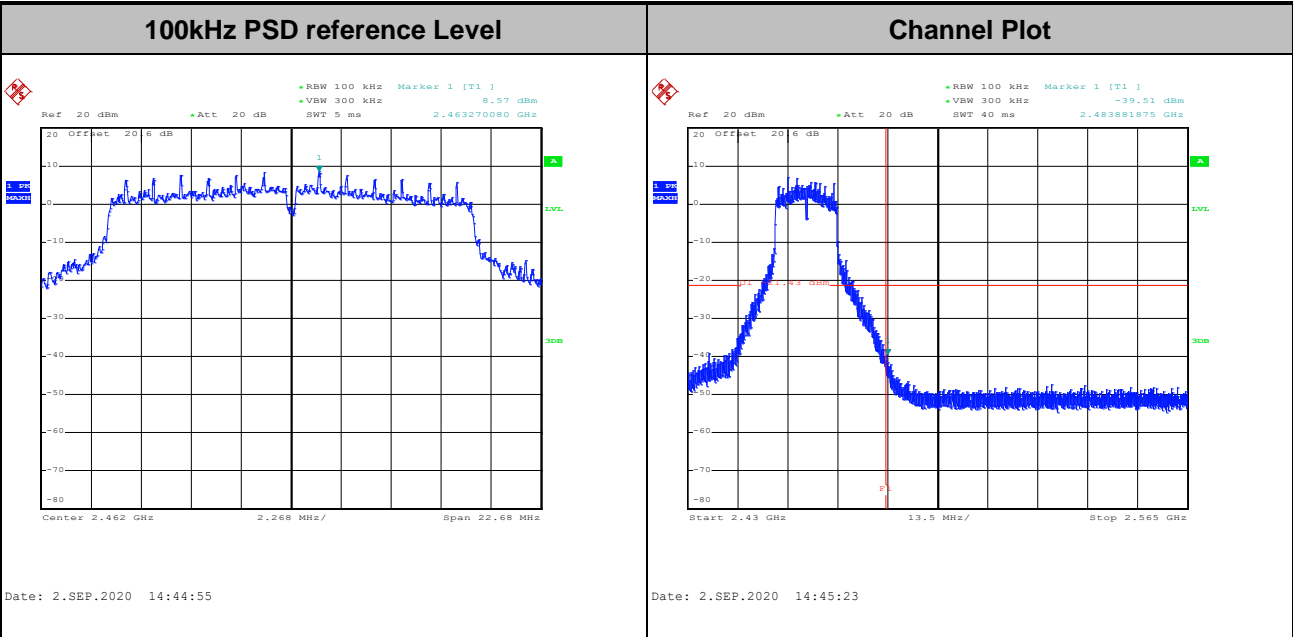


Test Mode :	802.11g	Test Channel :	06
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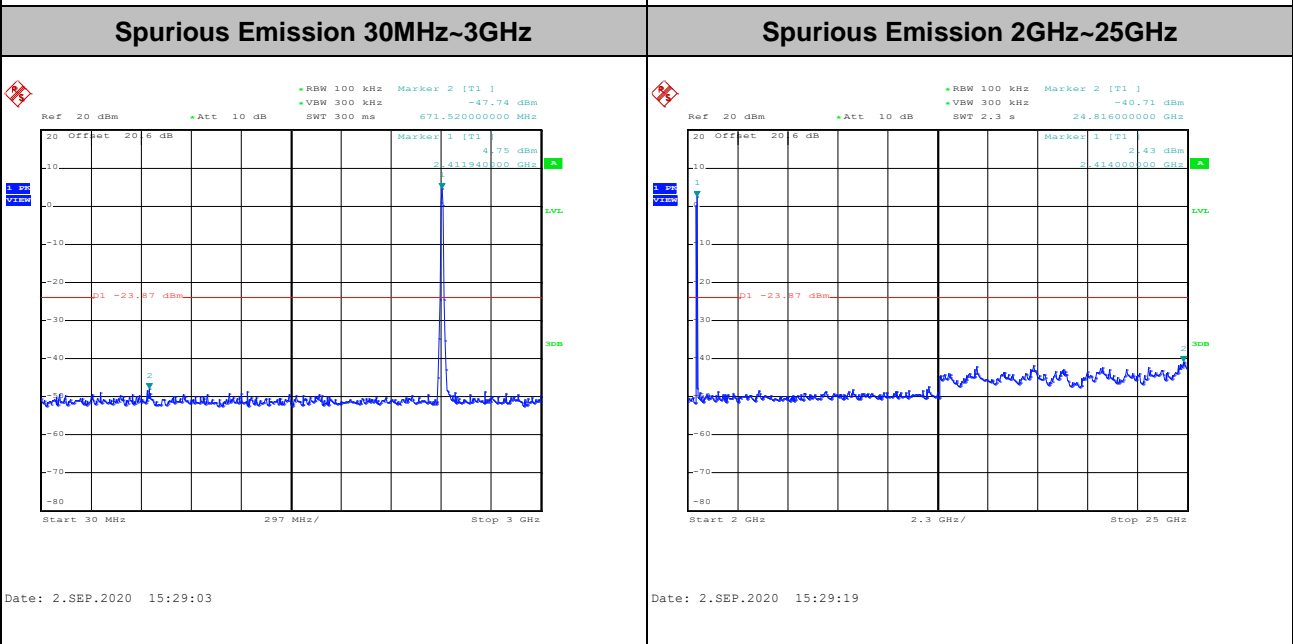
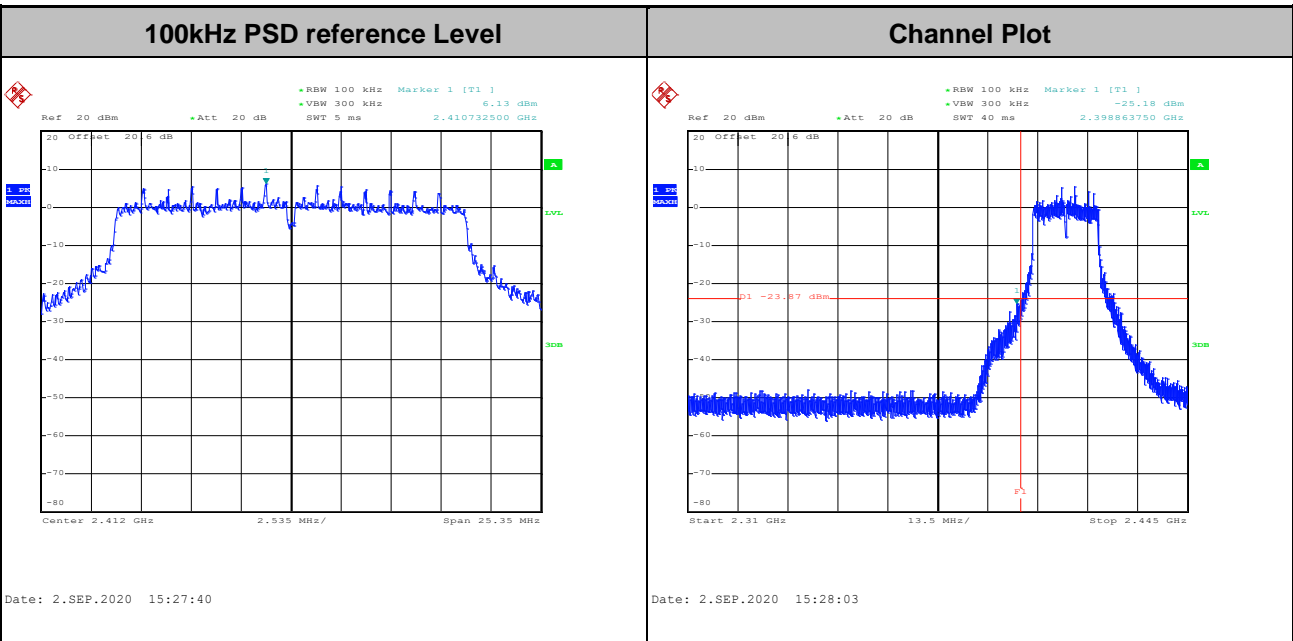


Test Mode :	802.11g	Test Channel :	11
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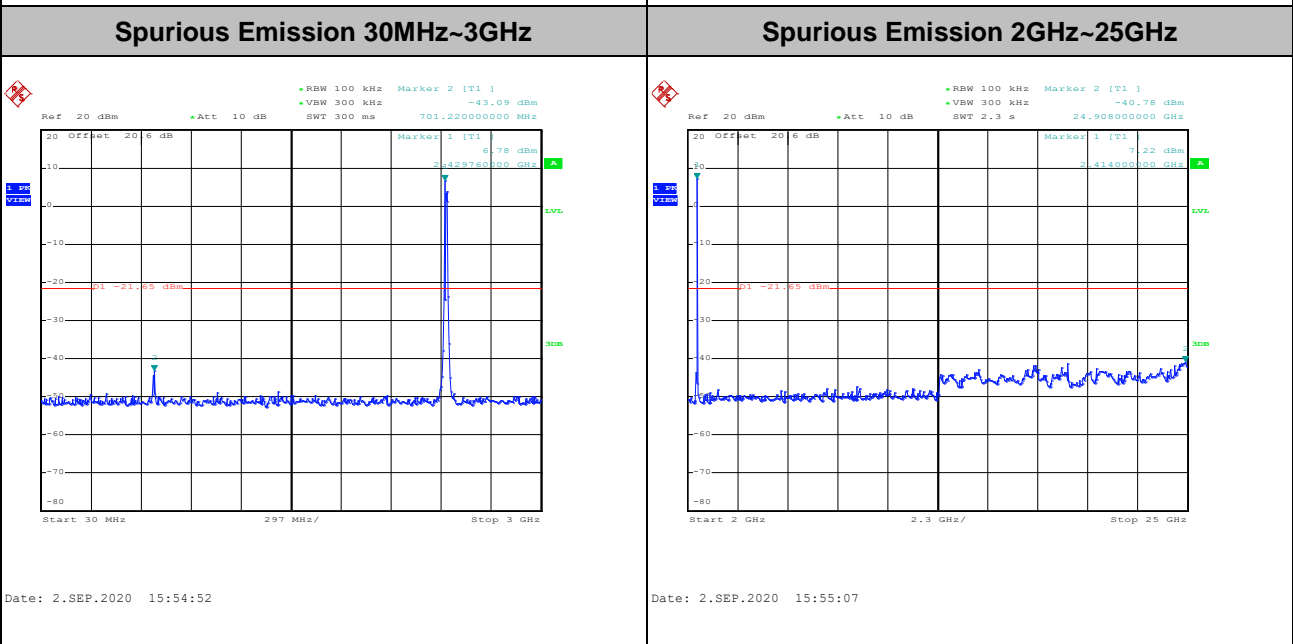
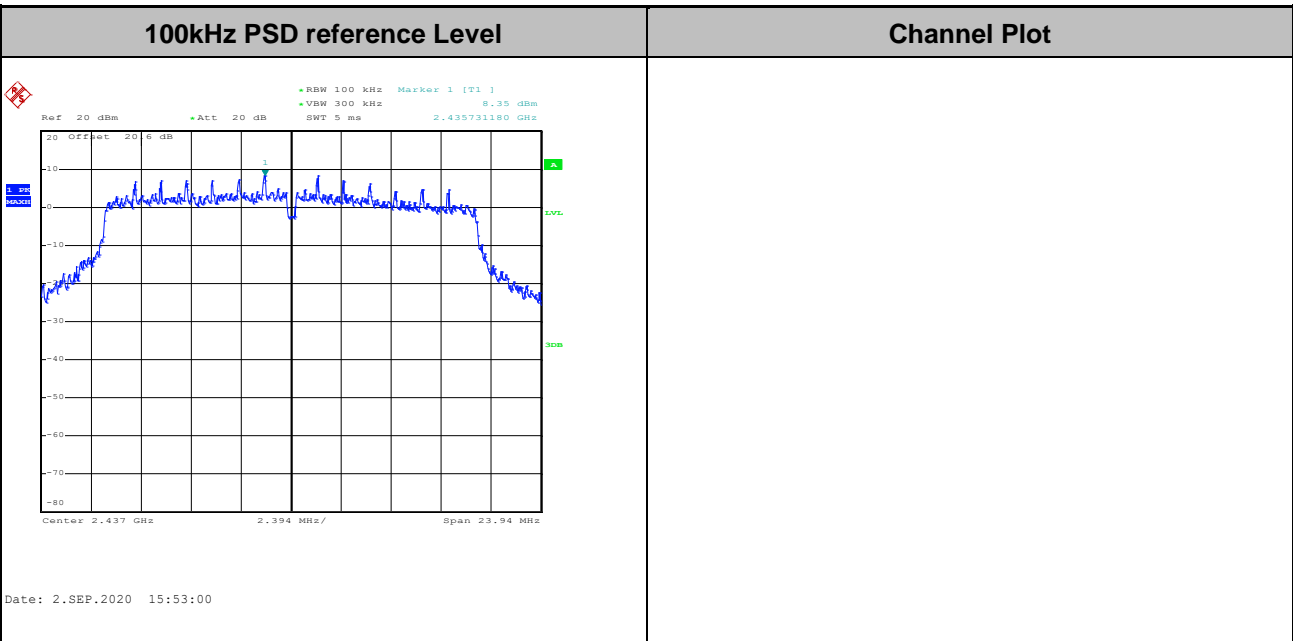


Test Mode :	802.11n HT20	Test Channel :	01
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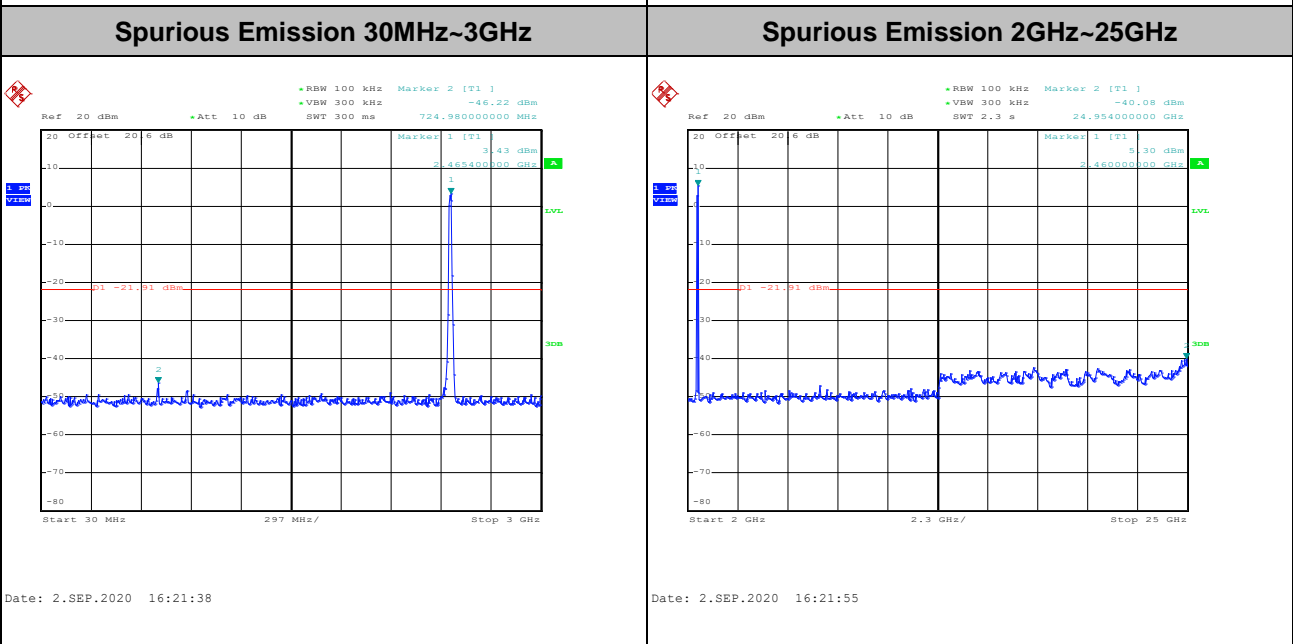
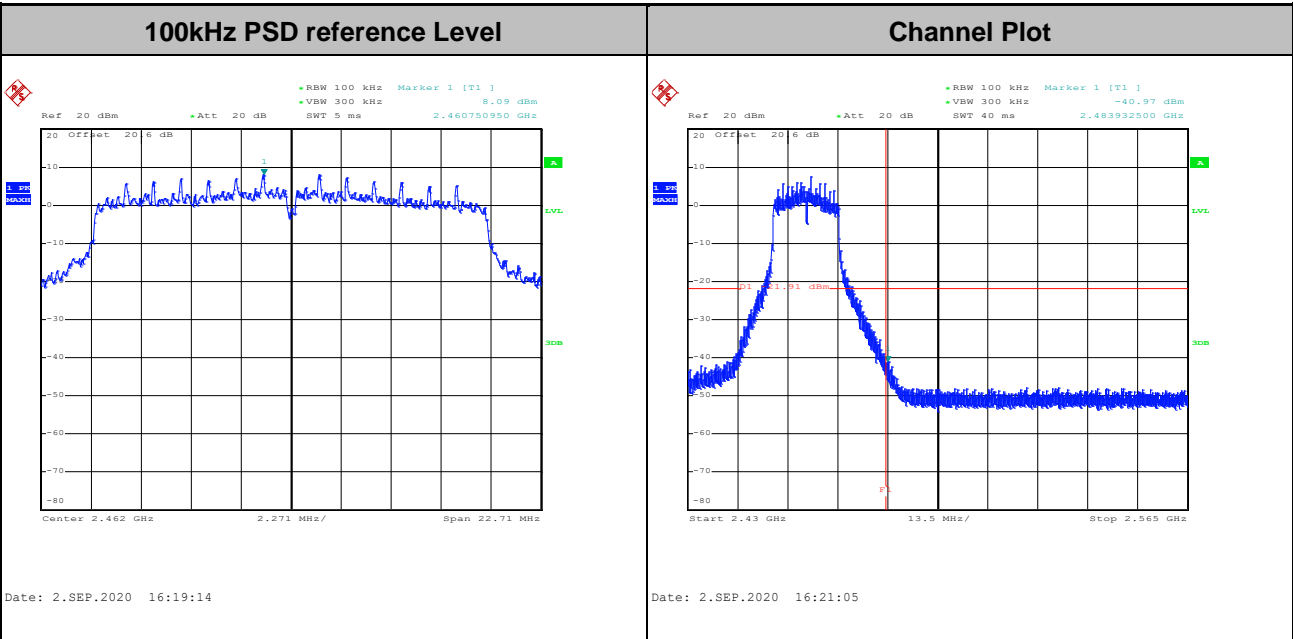


Test Mode :	802.11n HT20	Test Channel :	06
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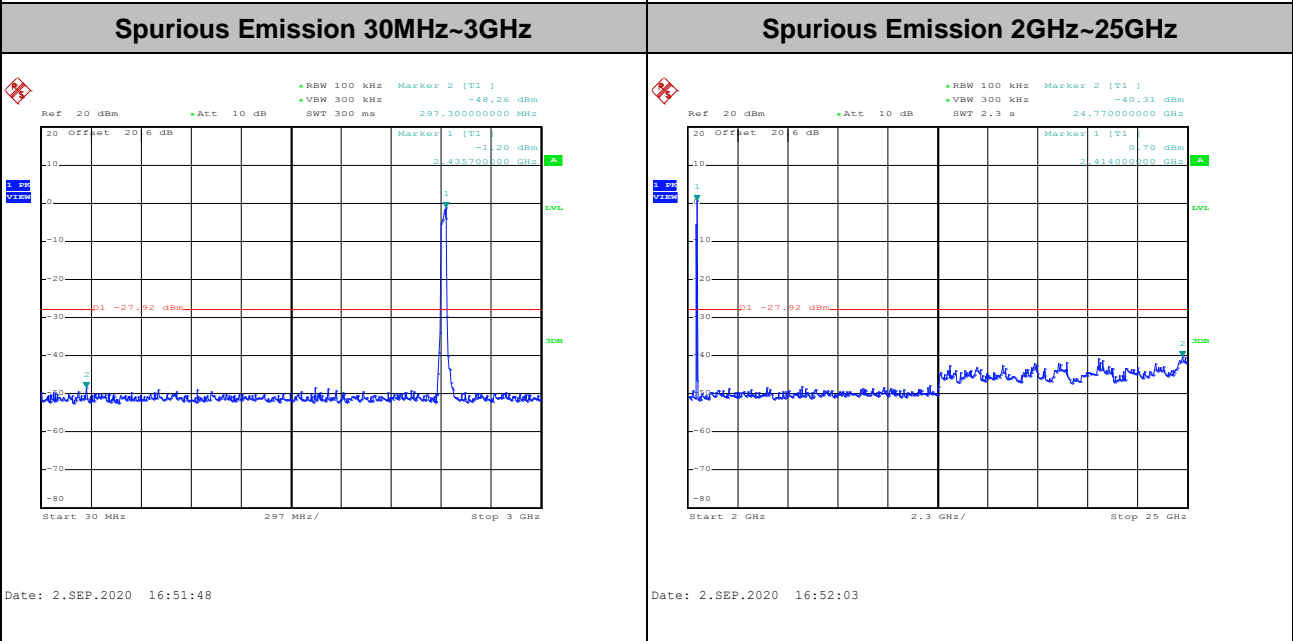
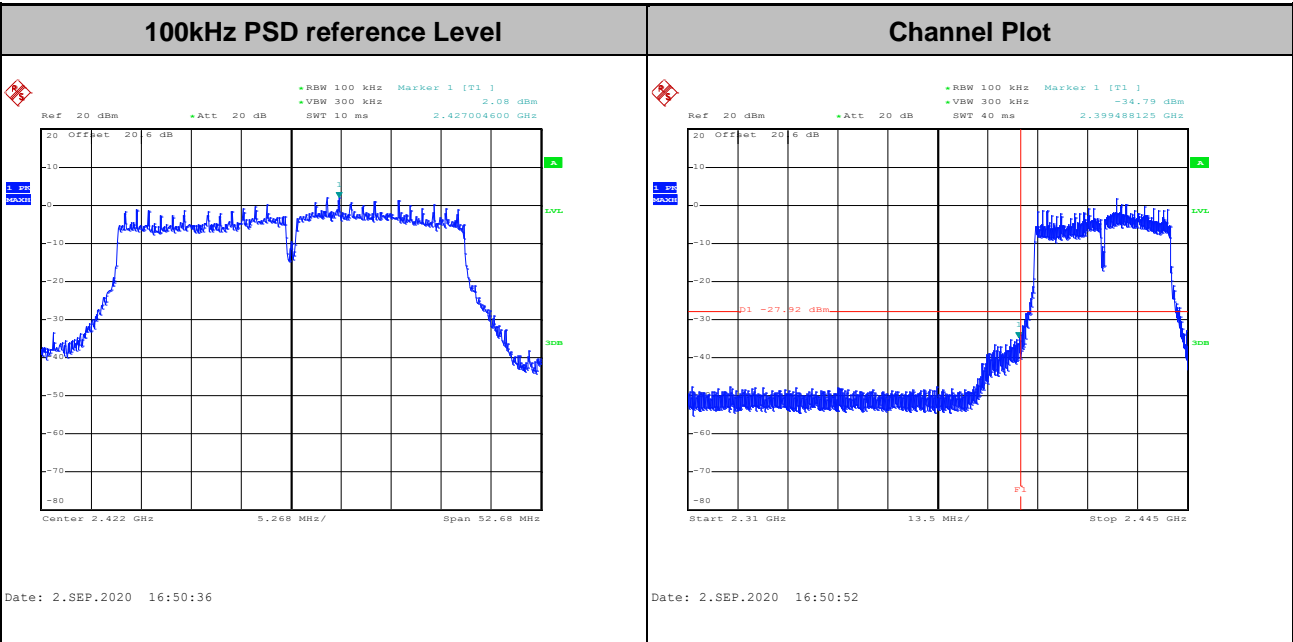


Test Mode :	802.11n HT20	Test Channel :	11
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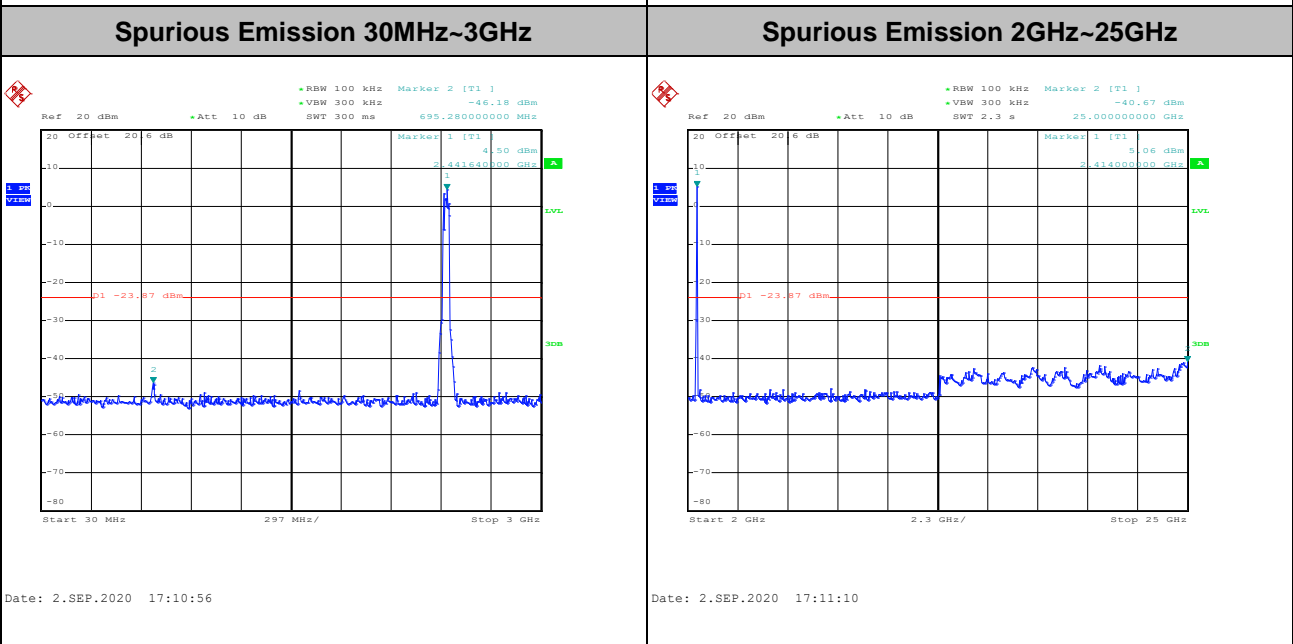
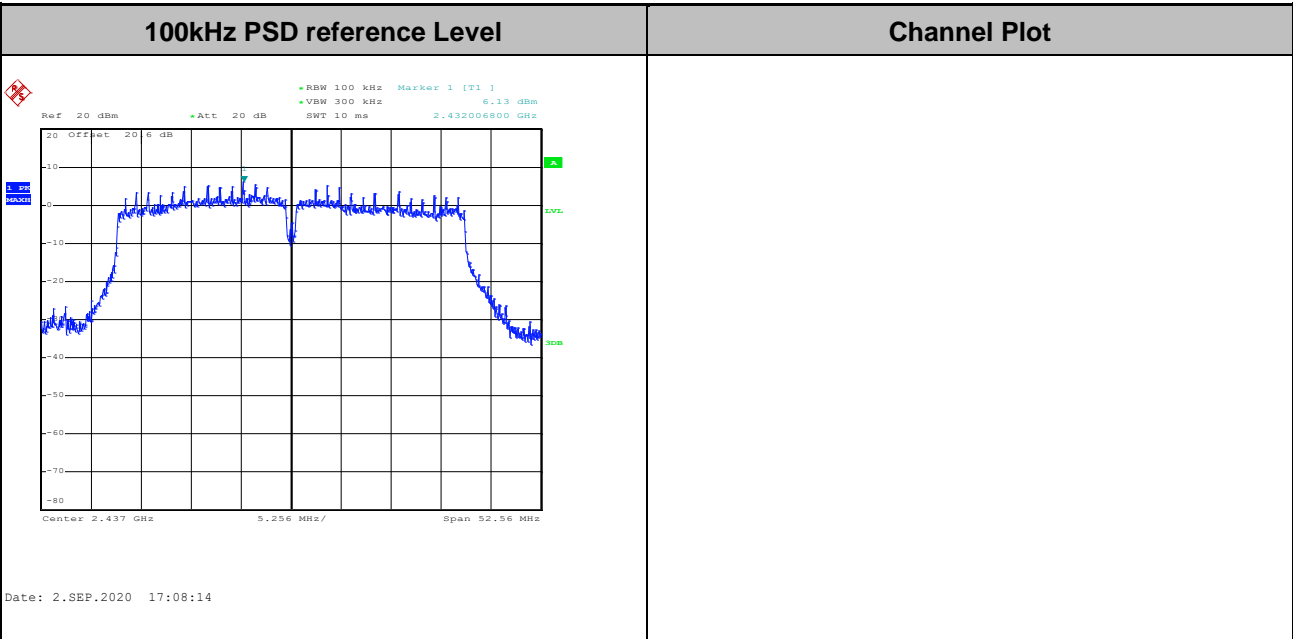


Test Mode :	802.11n HT40	Test Channel :	03
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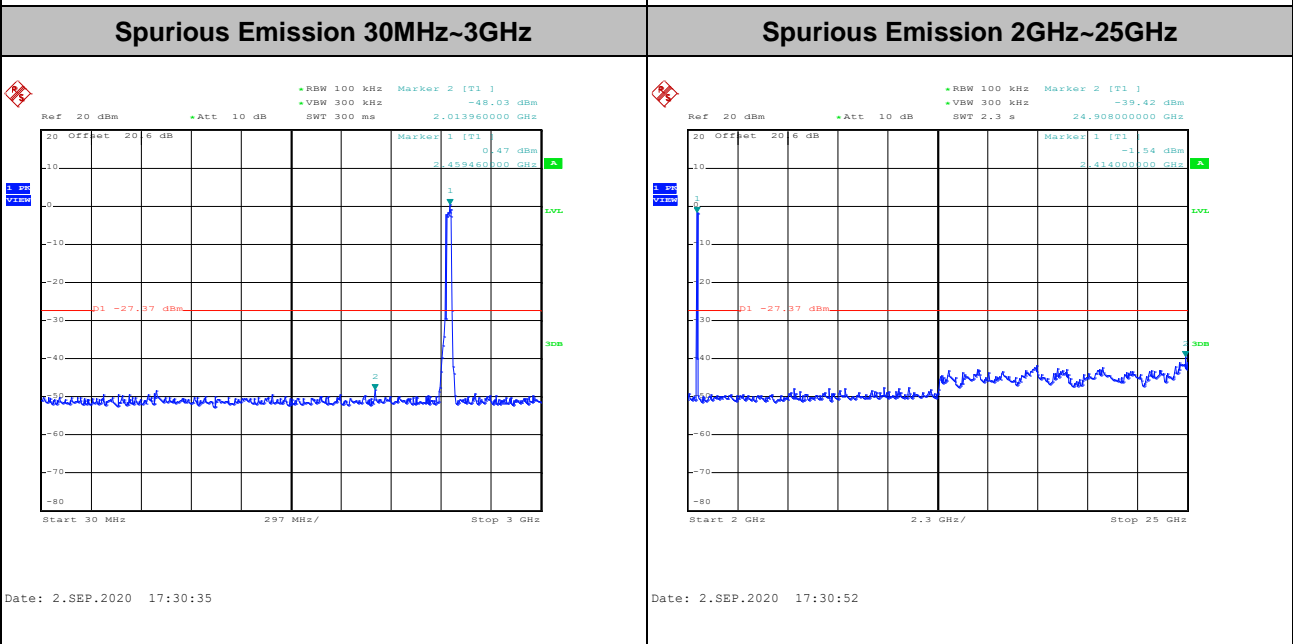
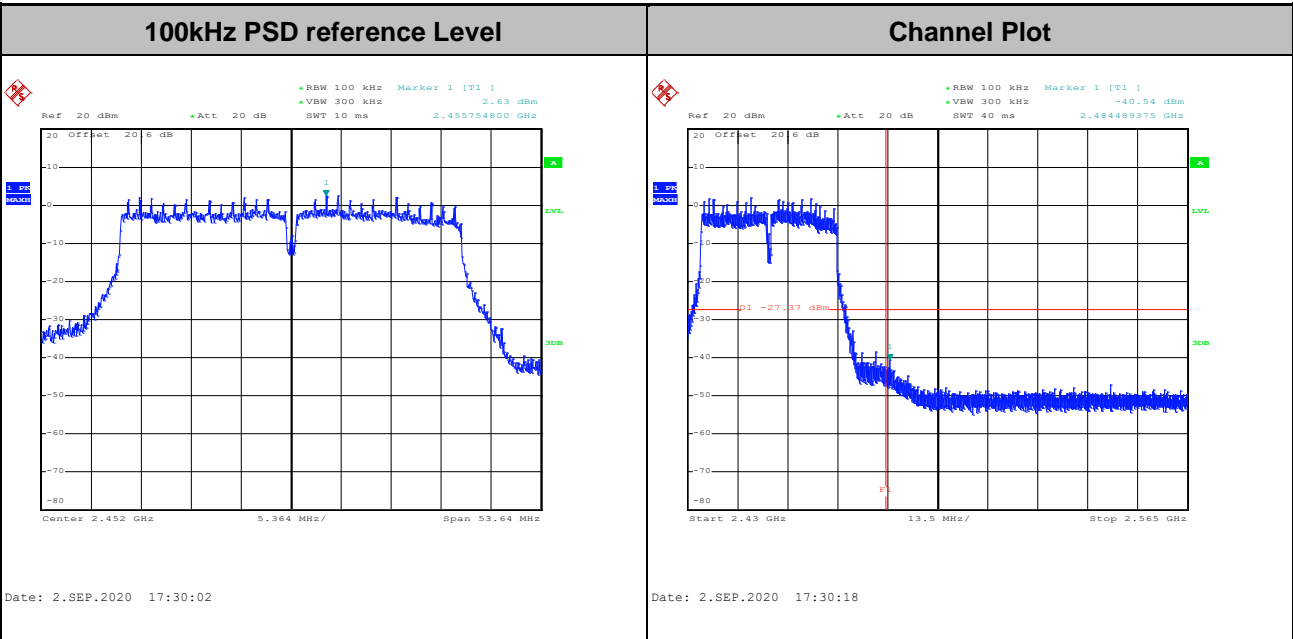


Test Mode :	802.11n HT40	Test Channel :	06
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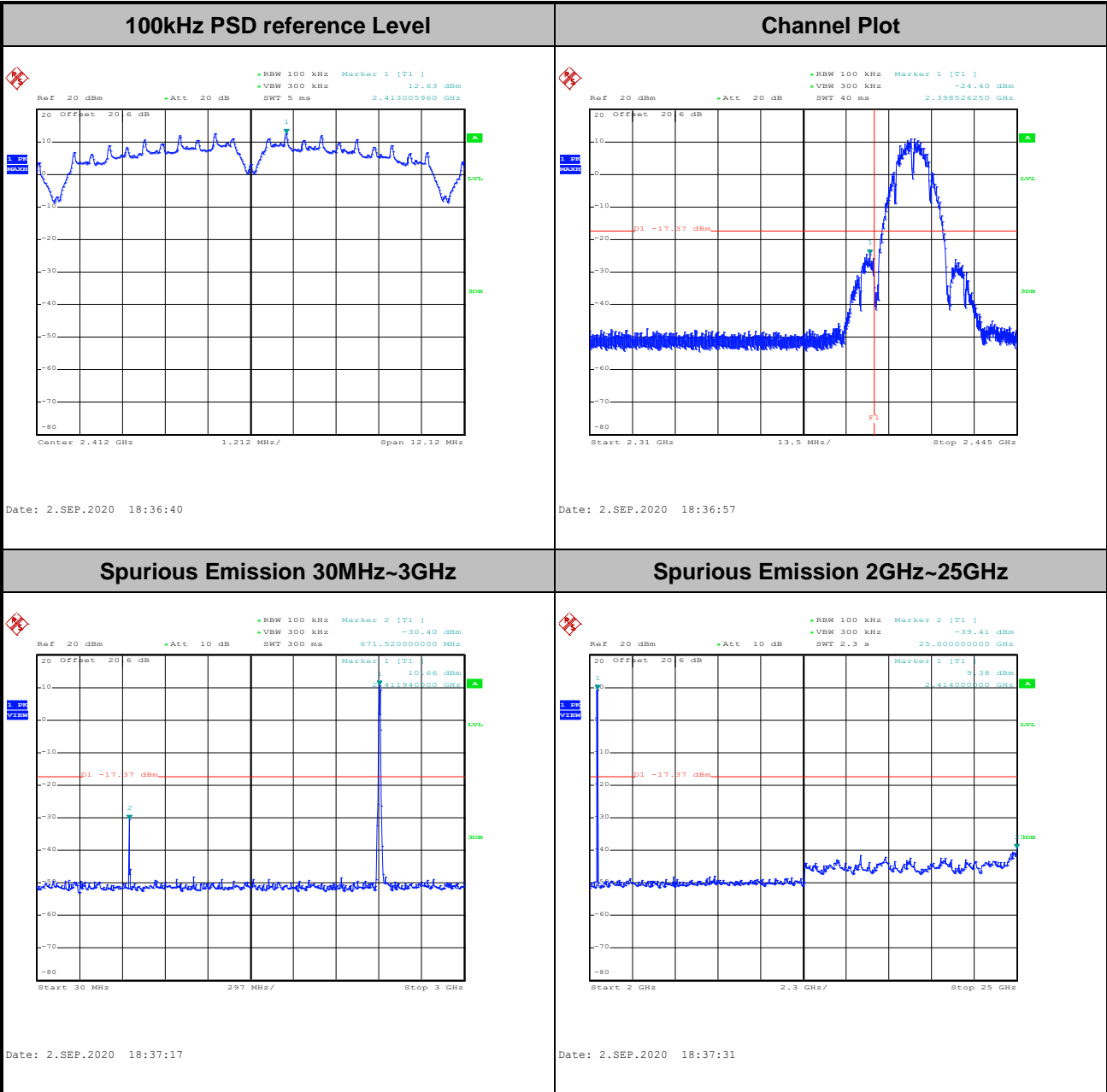
Test Mode :	802.11n HT40	Test Channel :	09
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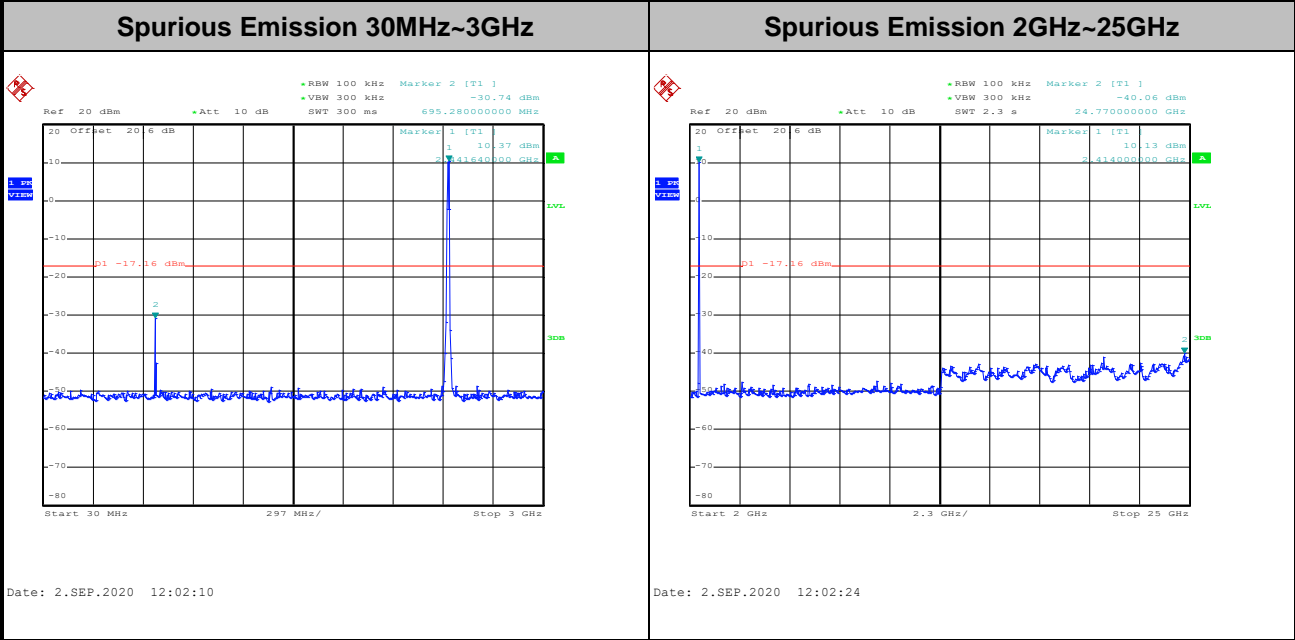
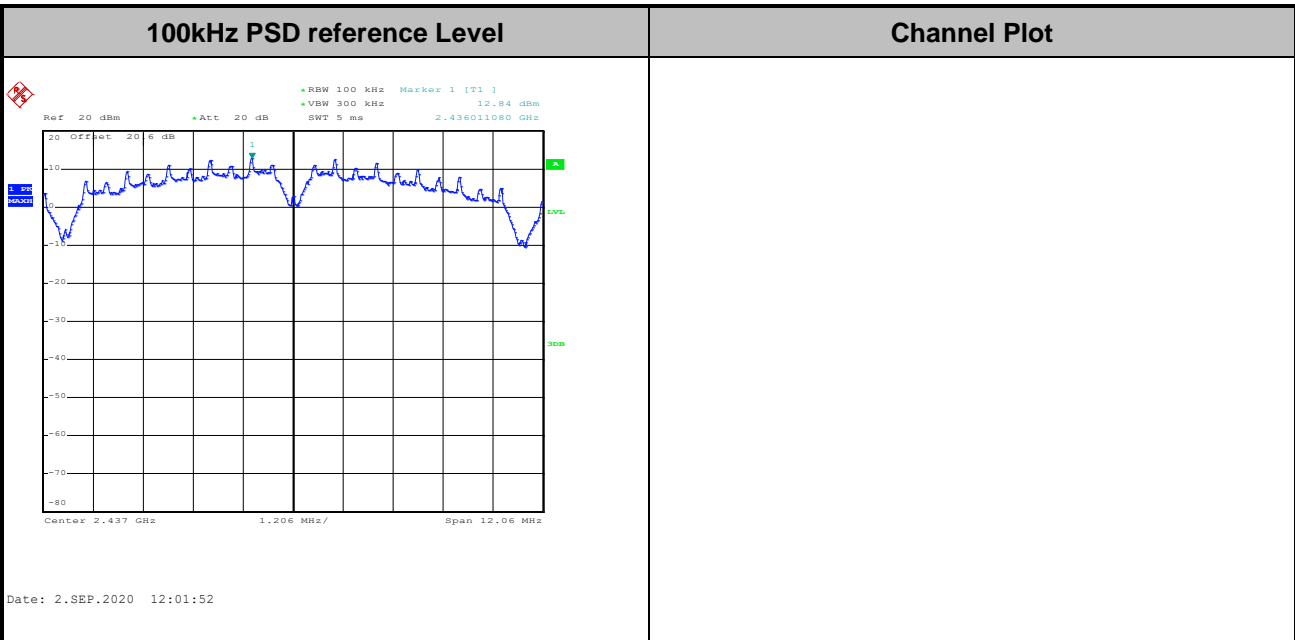
Number of TX = 2, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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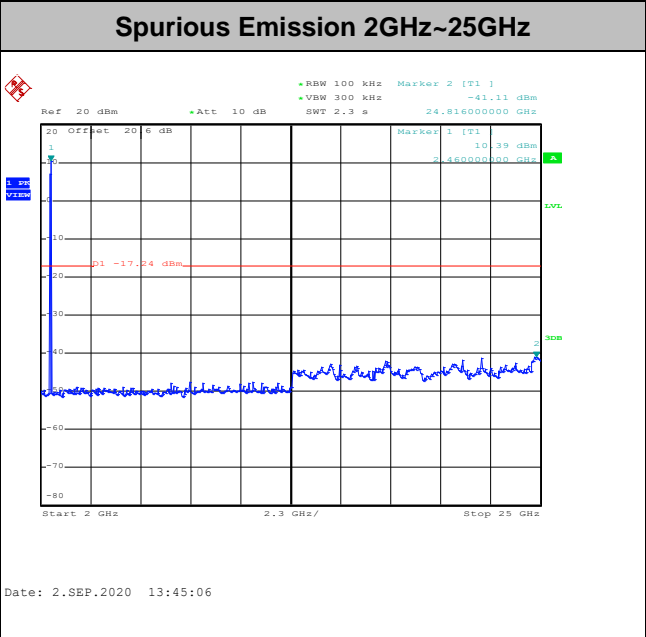
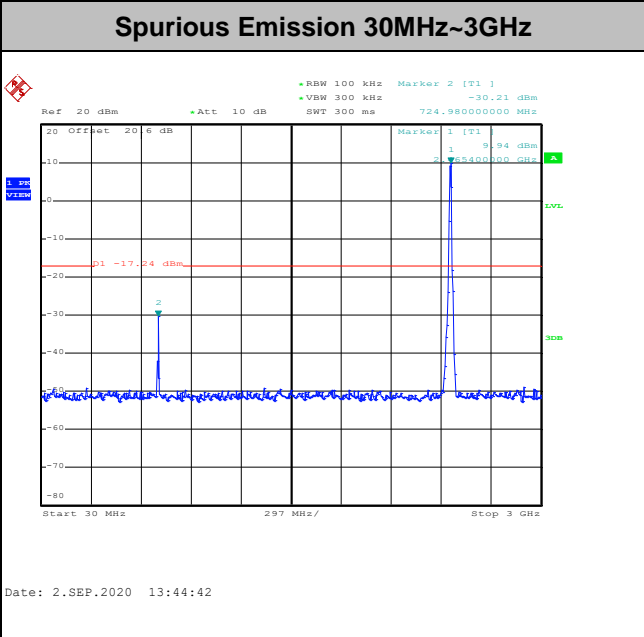
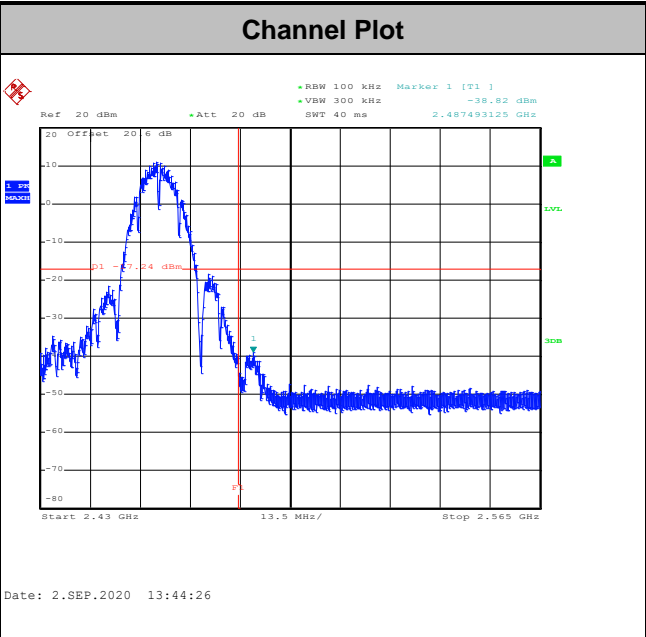
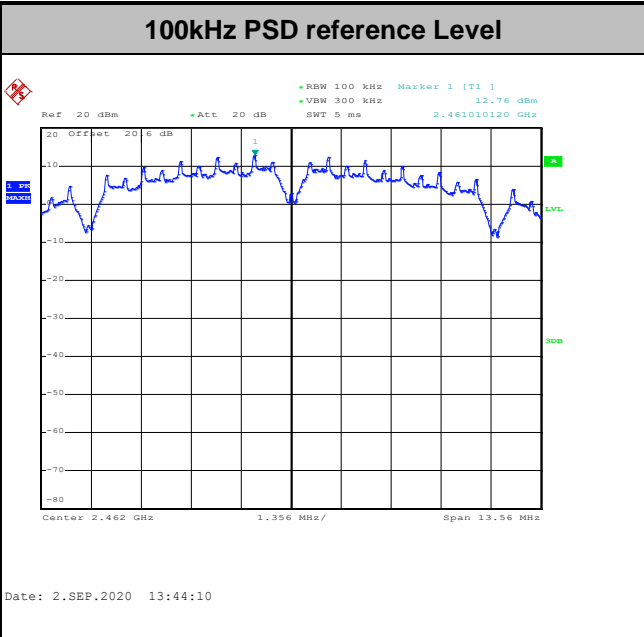


Test Mode :	802.11b	Test Channel :	06
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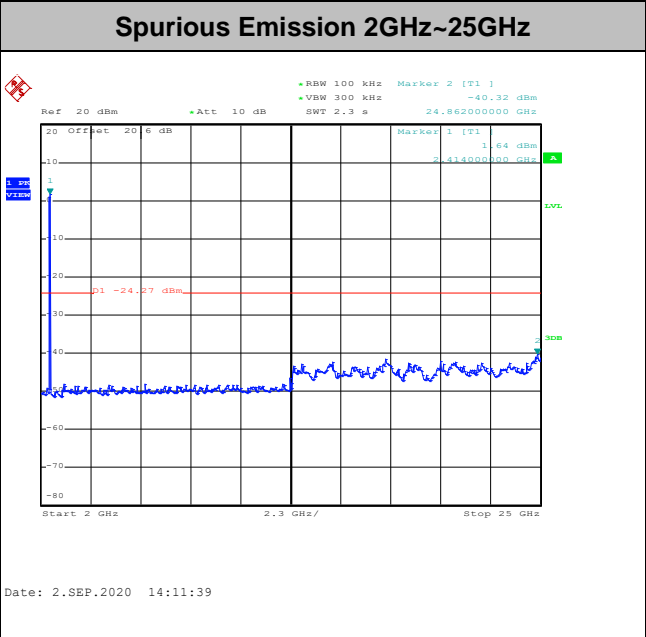
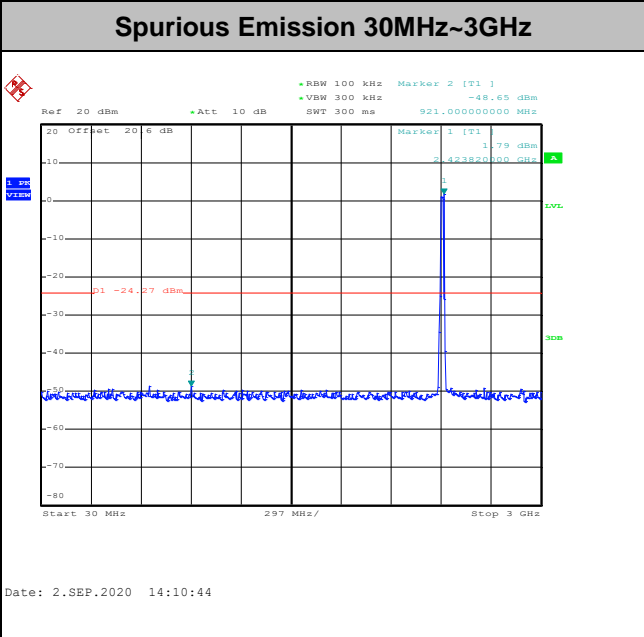
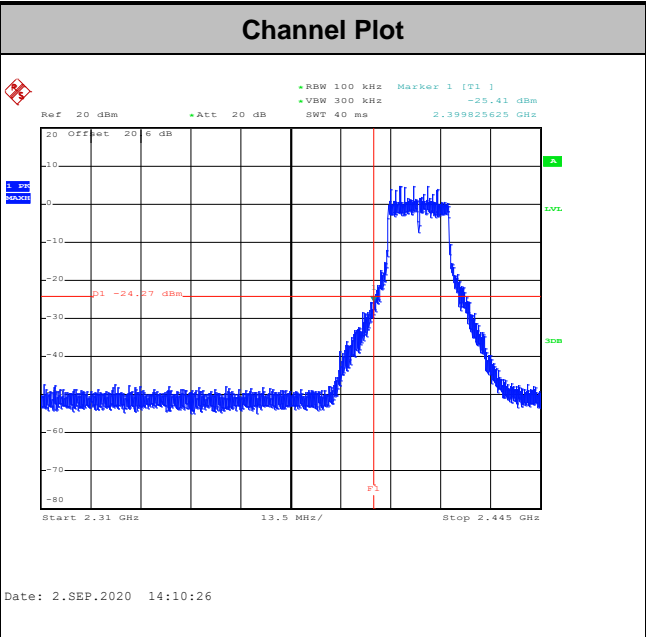
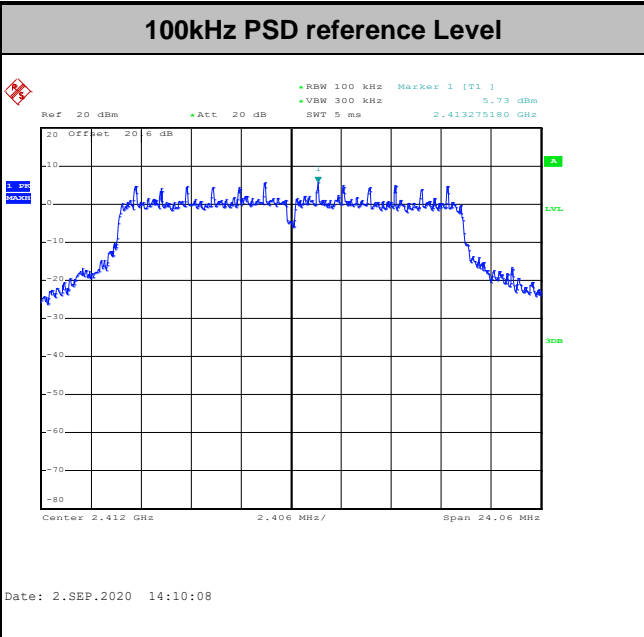


Test Mode :	802.11b	Test Channel :	11
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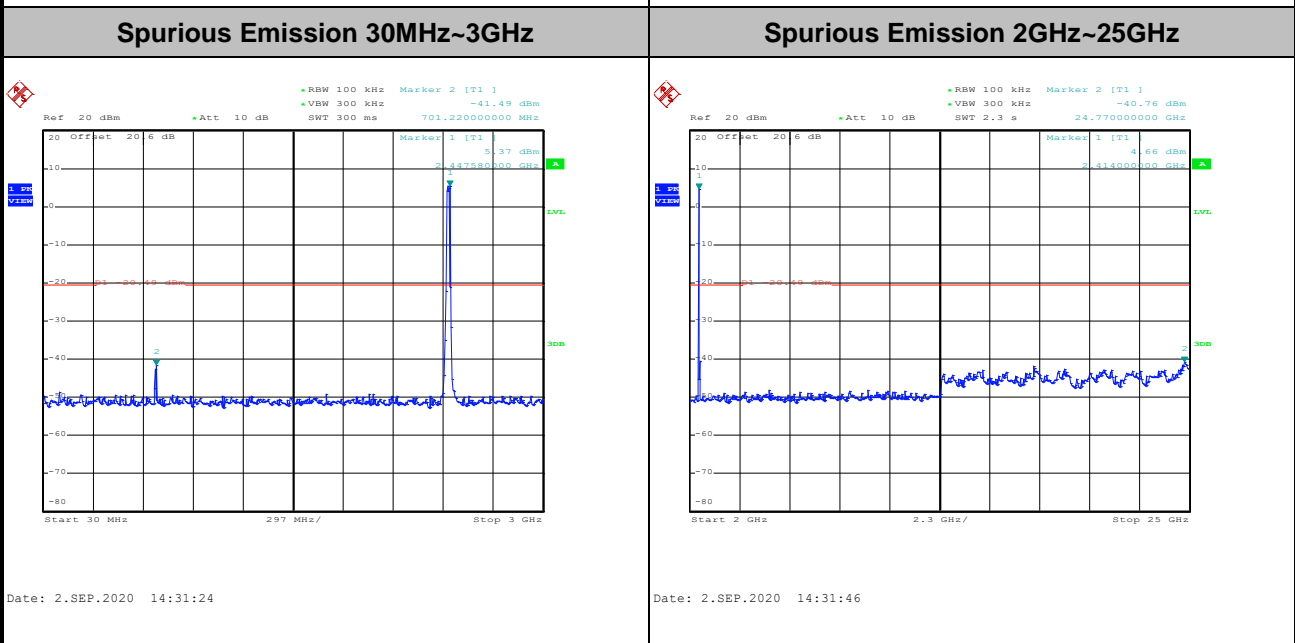
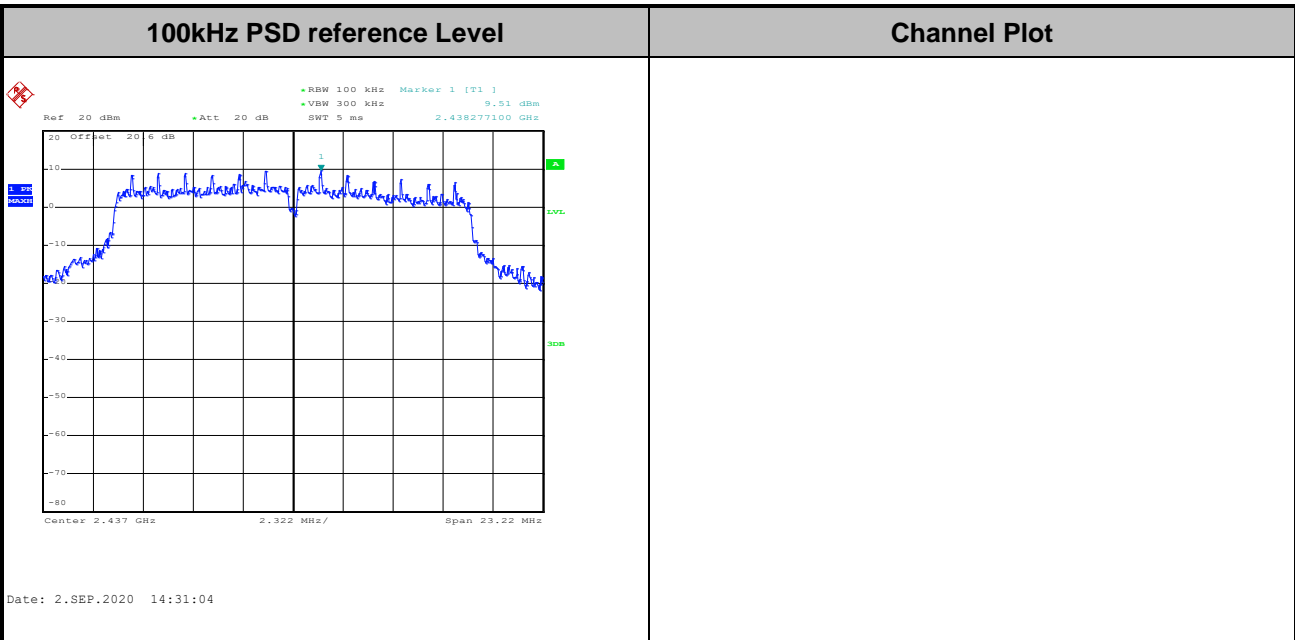


Test Mode : 802.11g Test Channel : 01



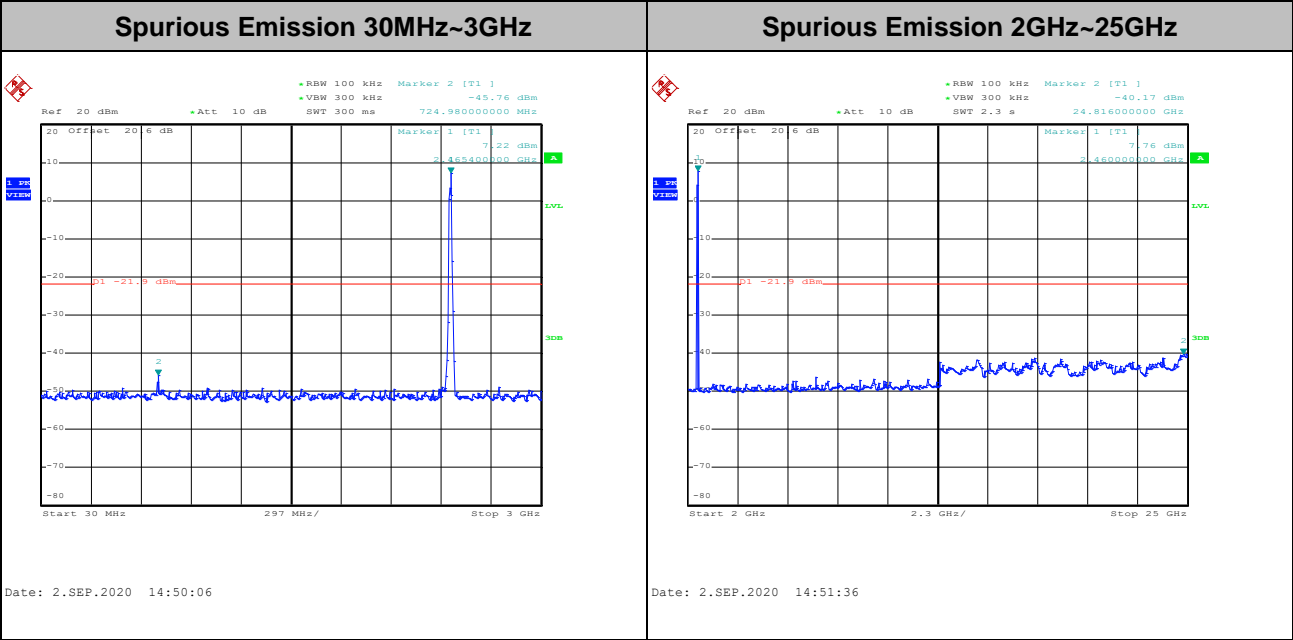
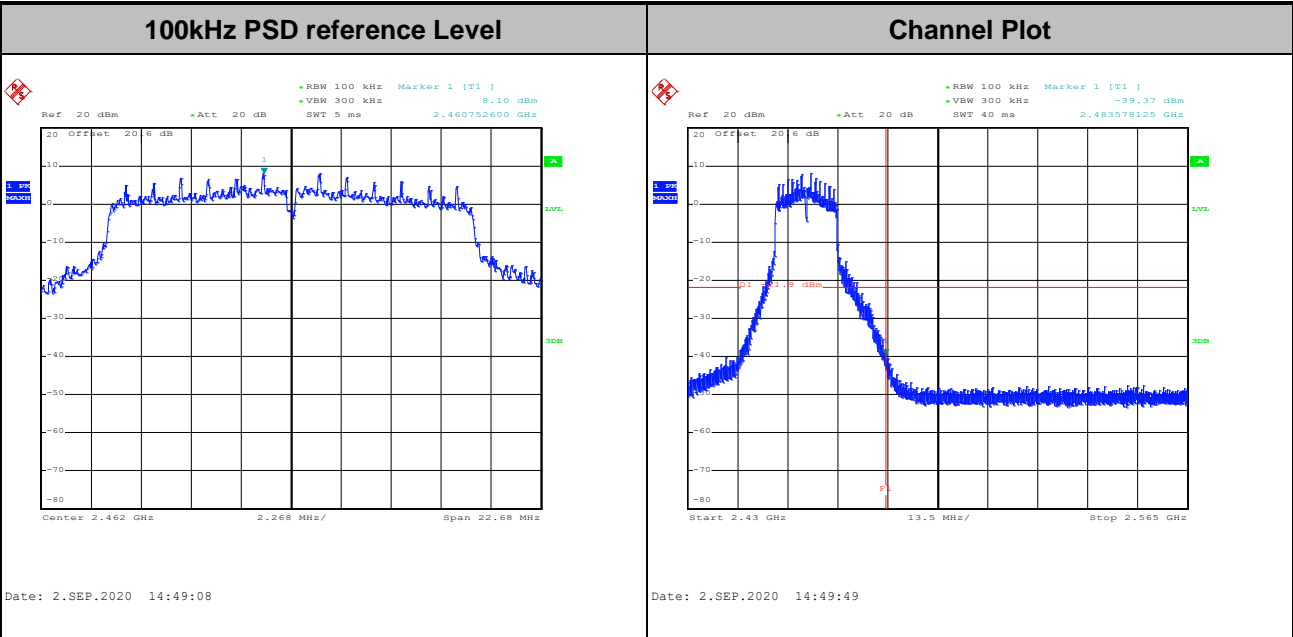


Test Mode :	802.11g	Test Channel :	06
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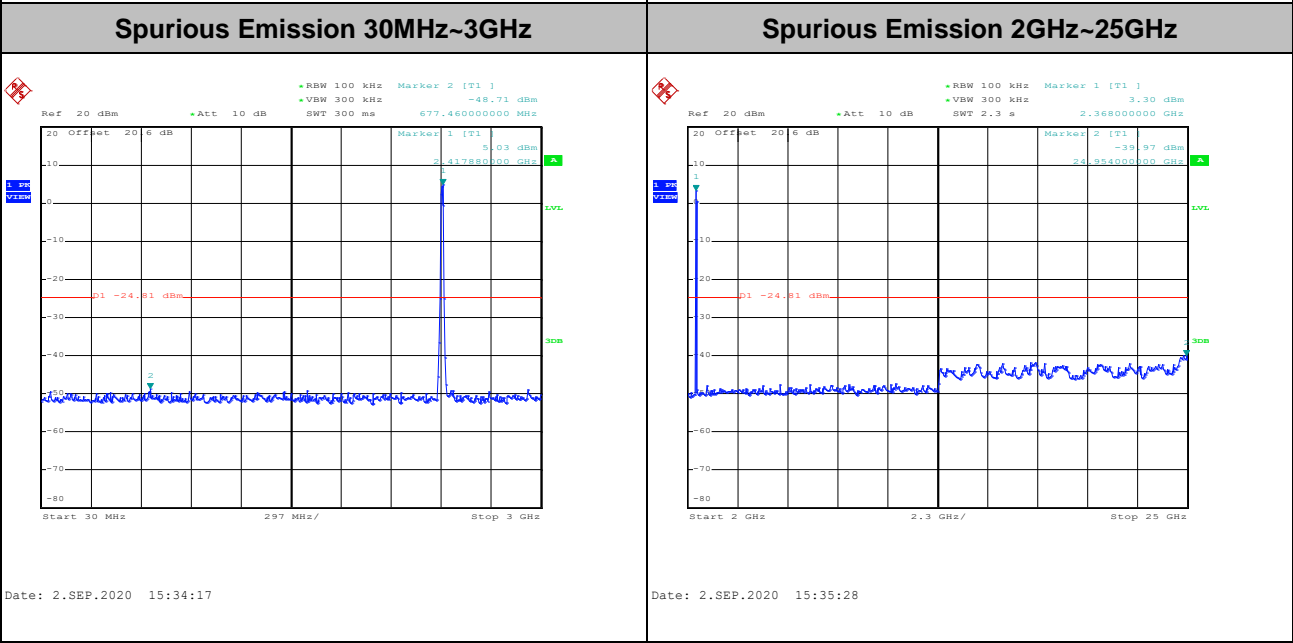
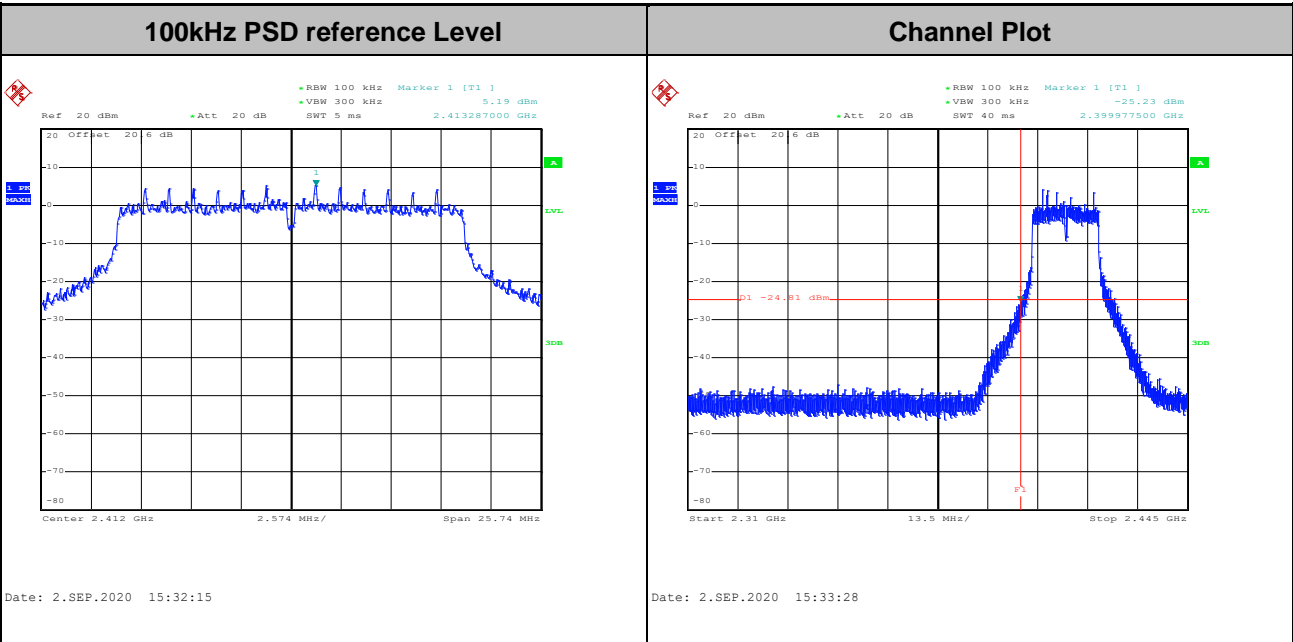


Test Mode :	802.11g	Test Channel :	11
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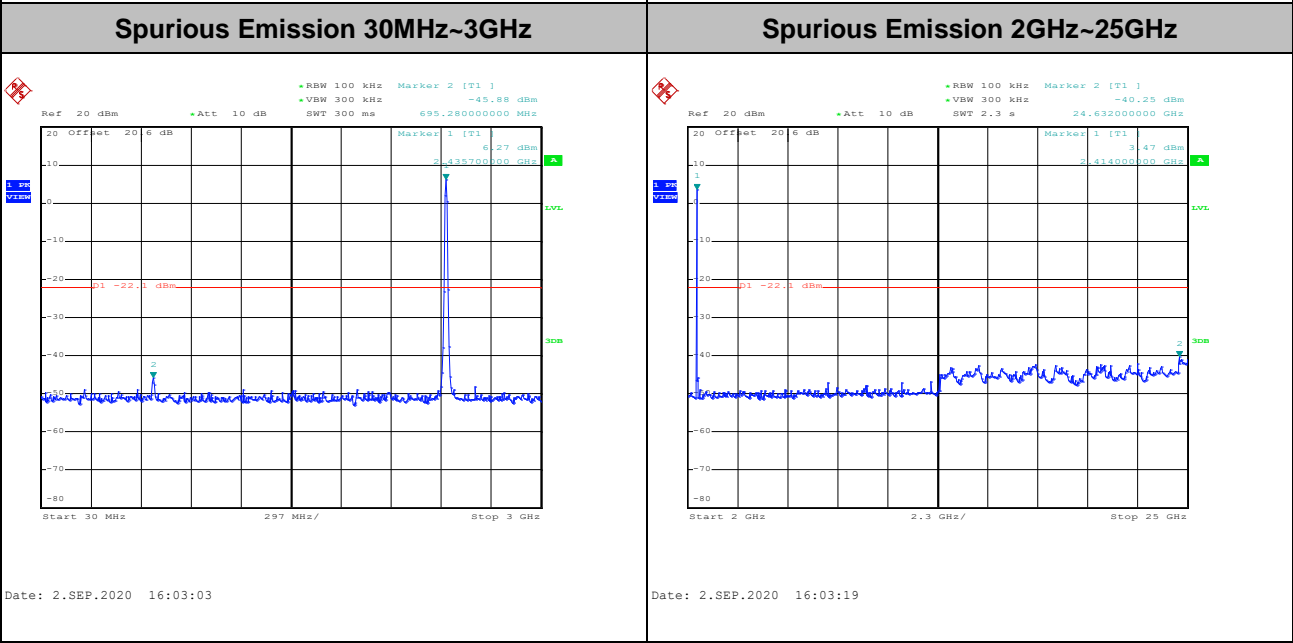
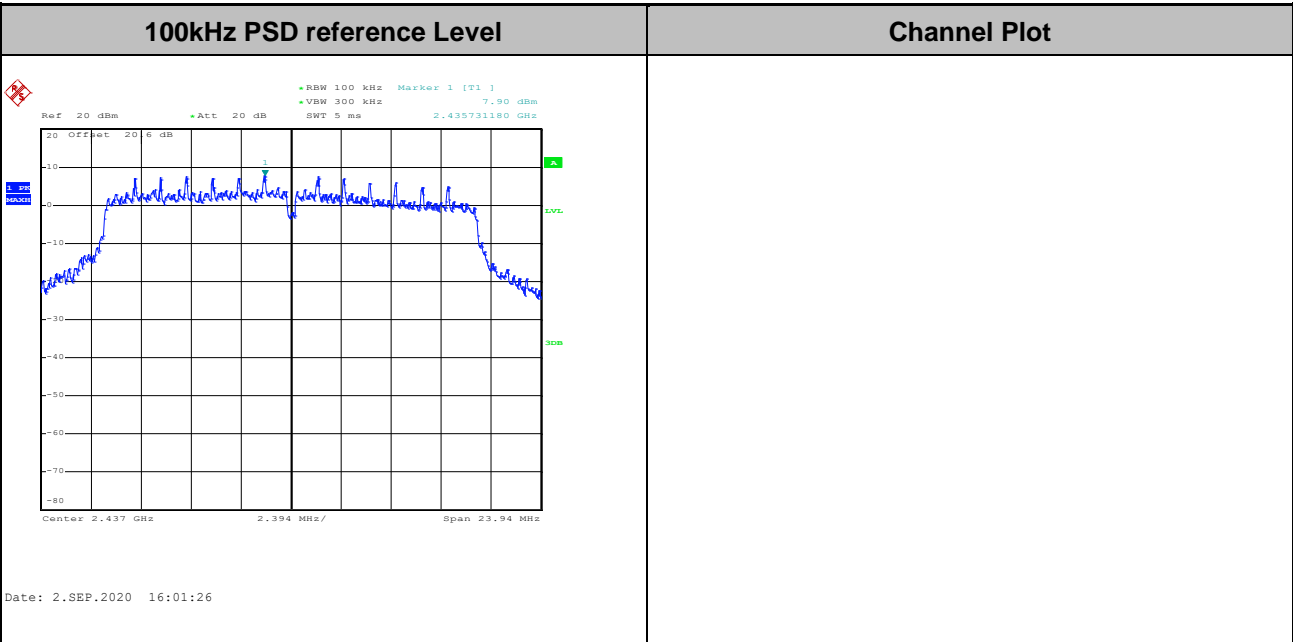


Test Mode : 802.11n HT20	Test Channel : 01
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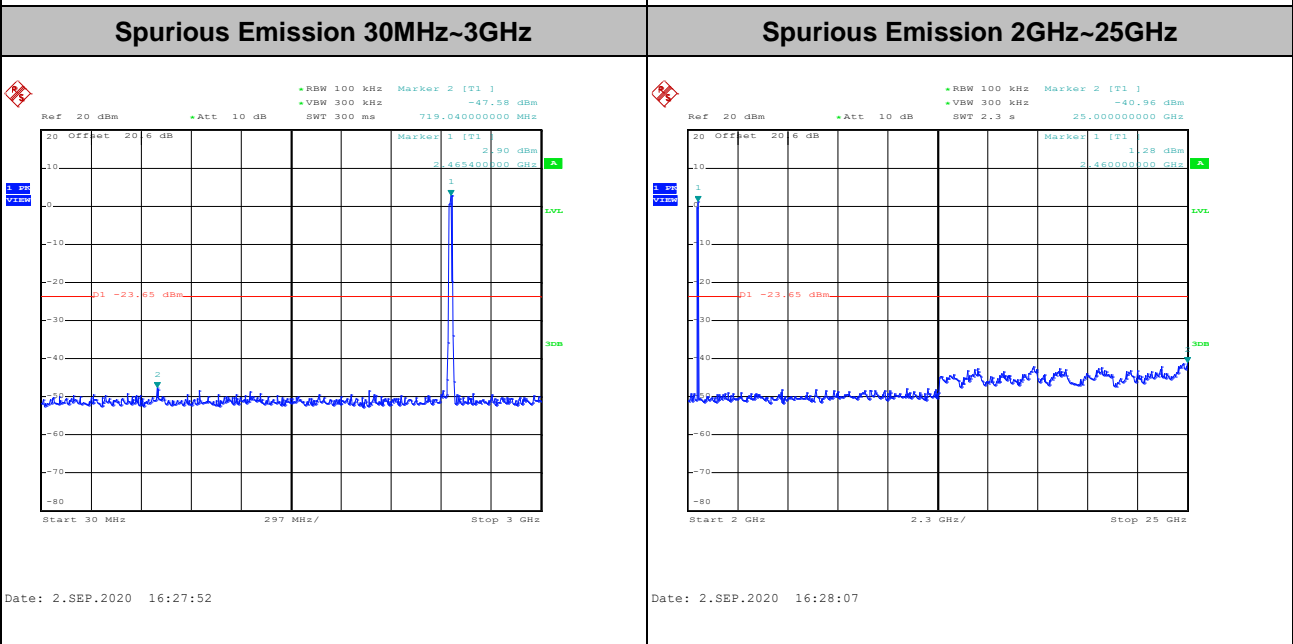
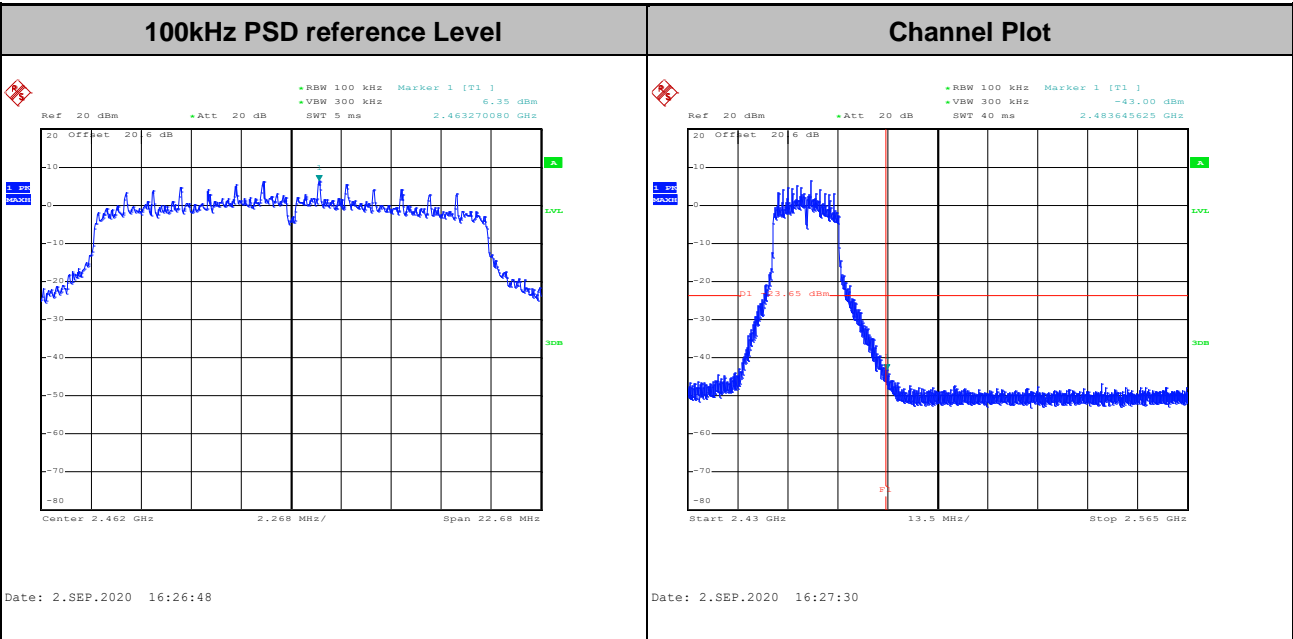


Test Mode :	802.11n HT20	Test Channel :	06
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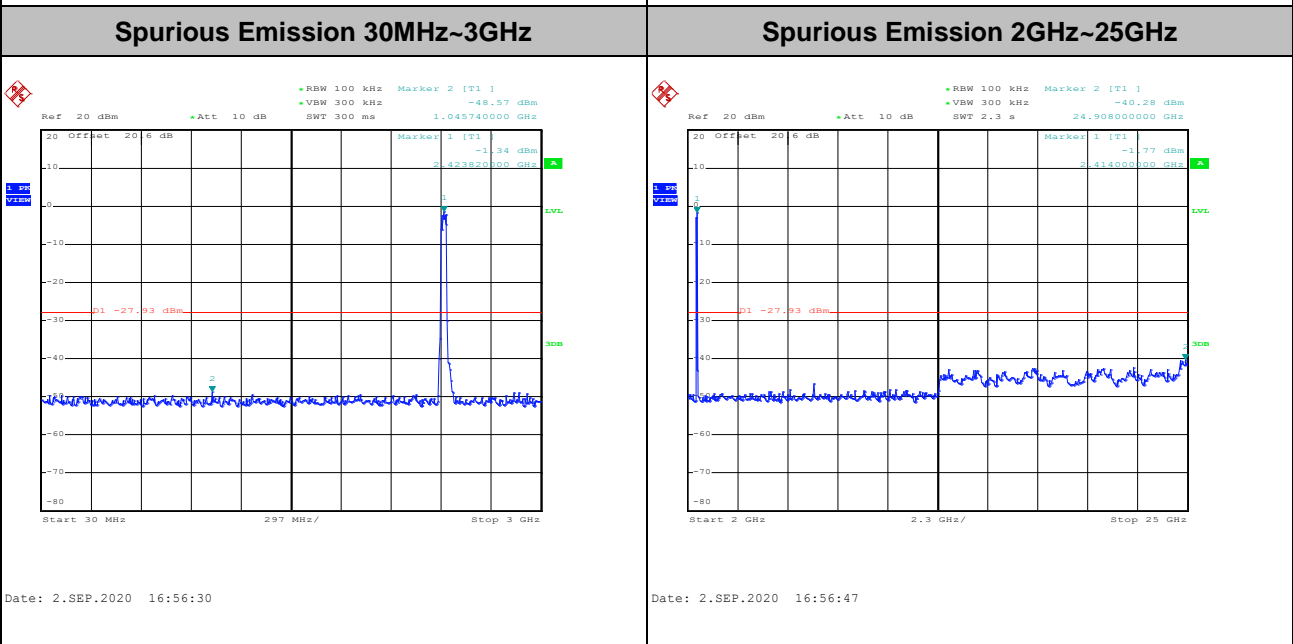
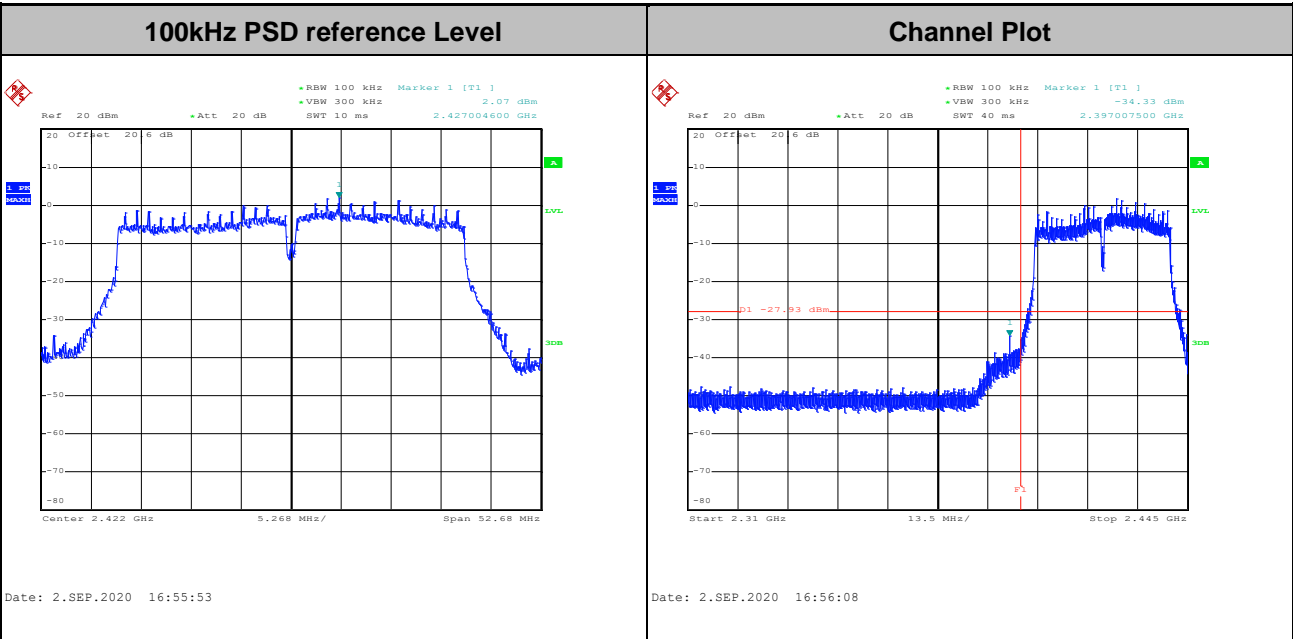


Test Mode :	802.11n HT20	Test Channel :	11
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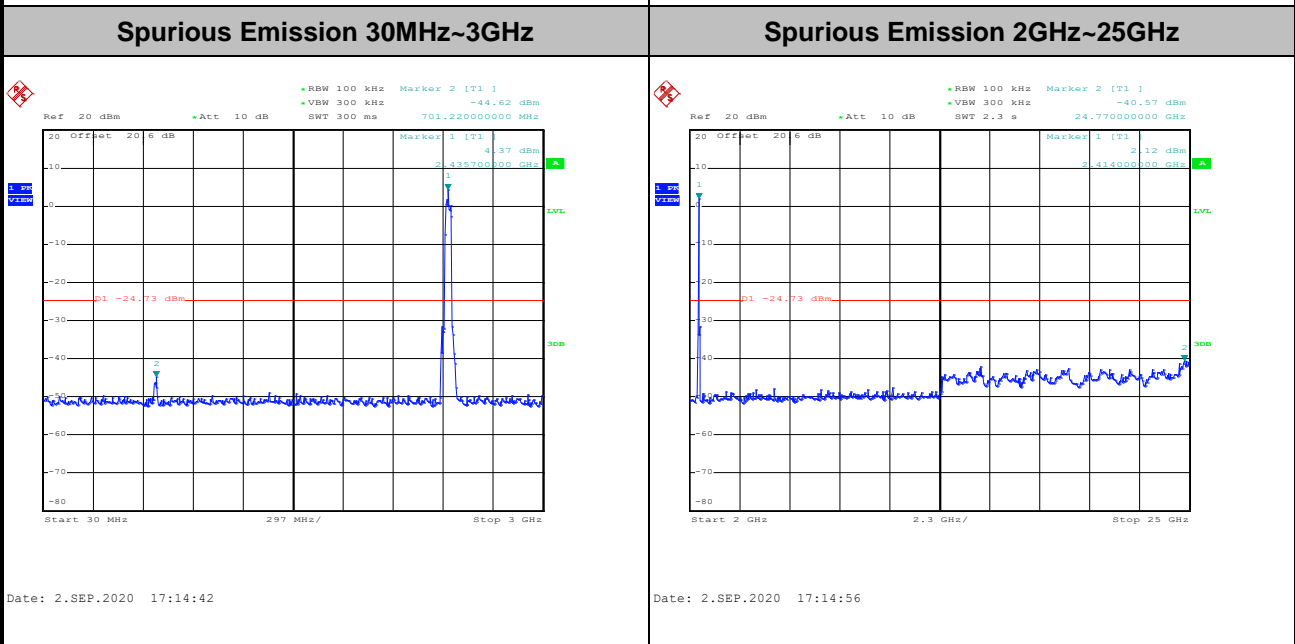
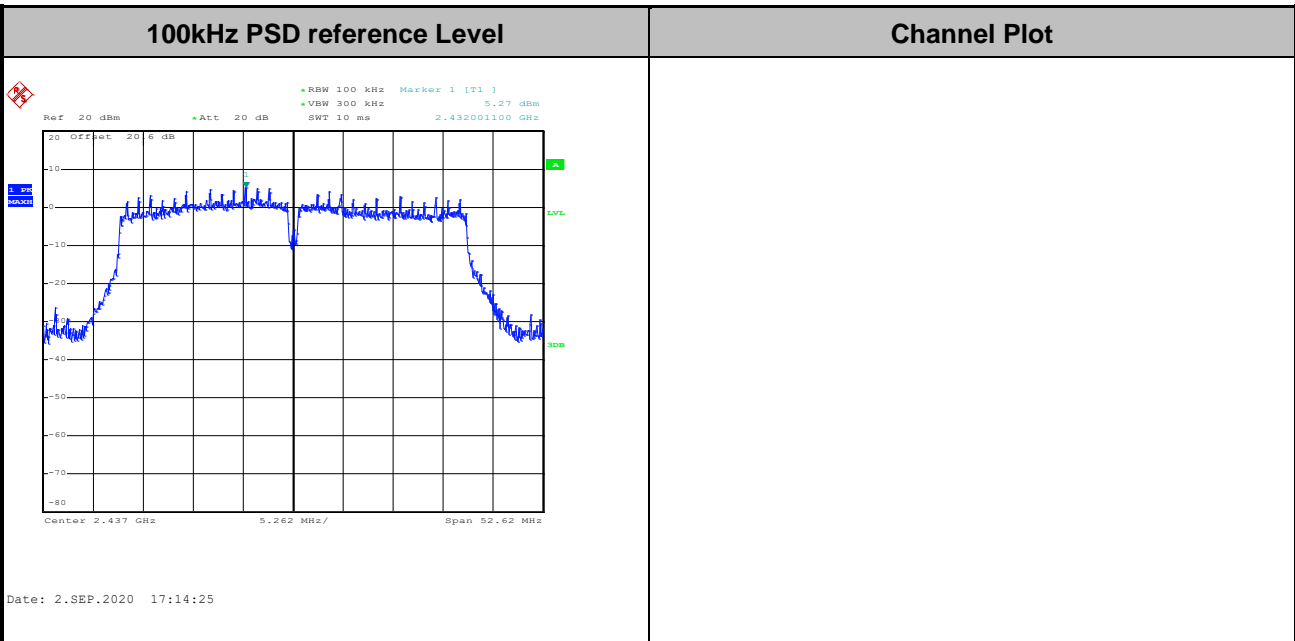


Test Mode :	802.11n HT40	Test Channel :	03
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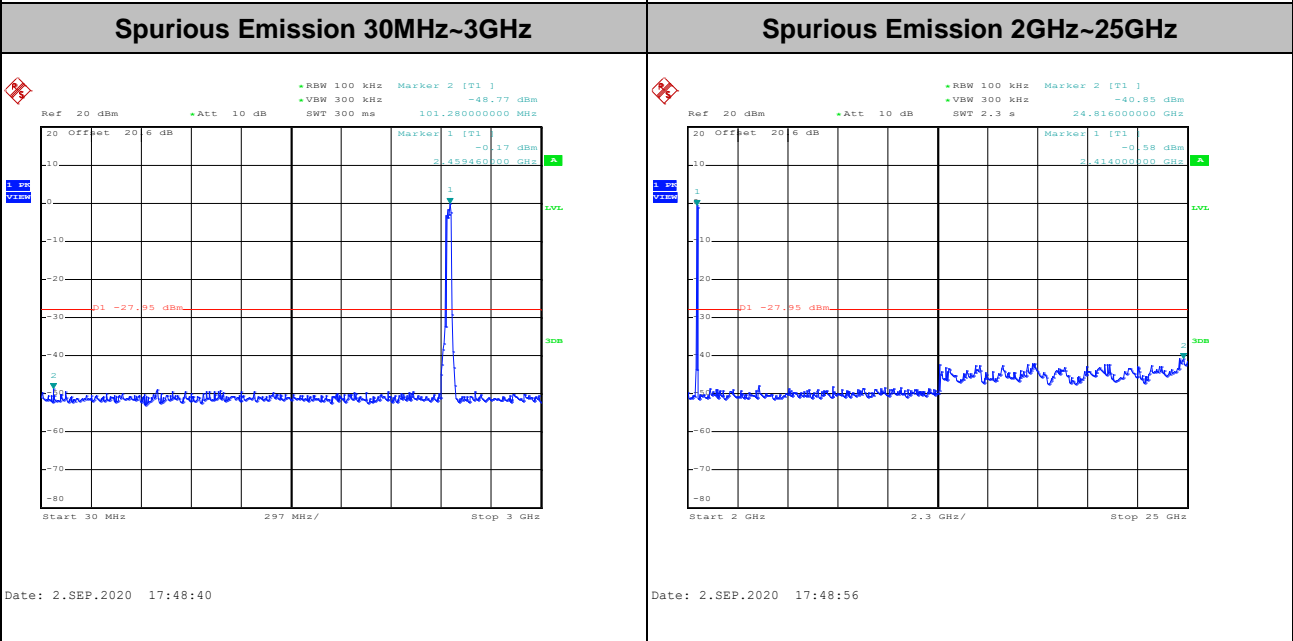
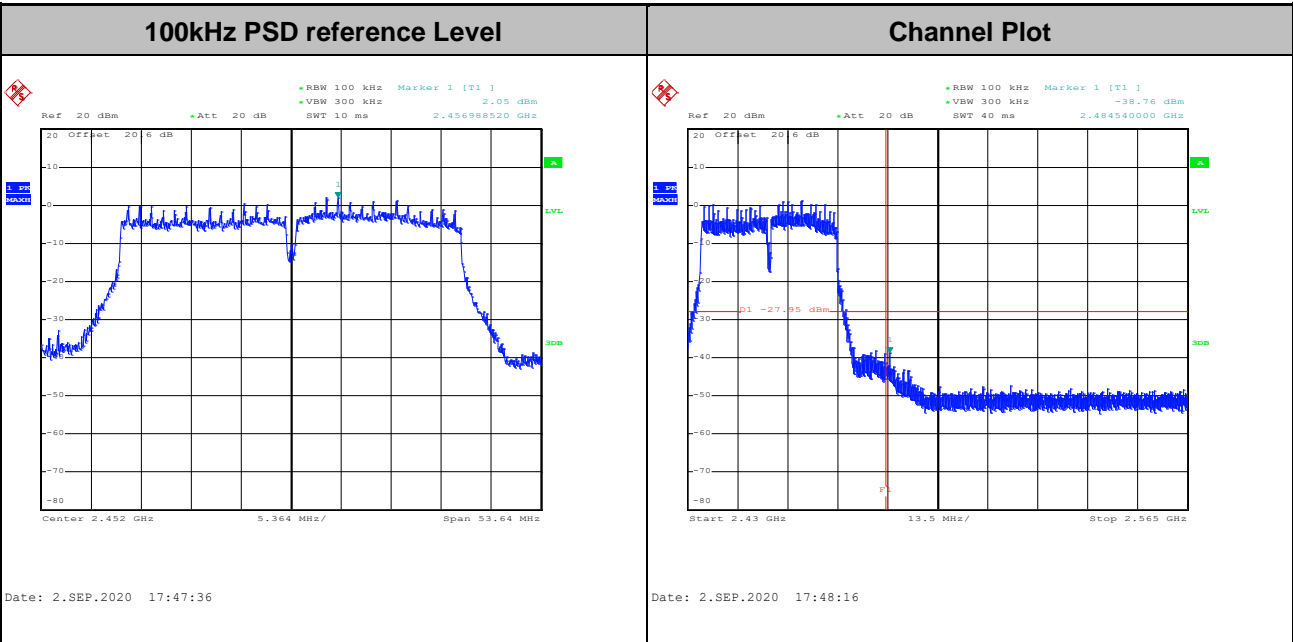


Test Mode :	802.11n HT40	Test Channel :	06
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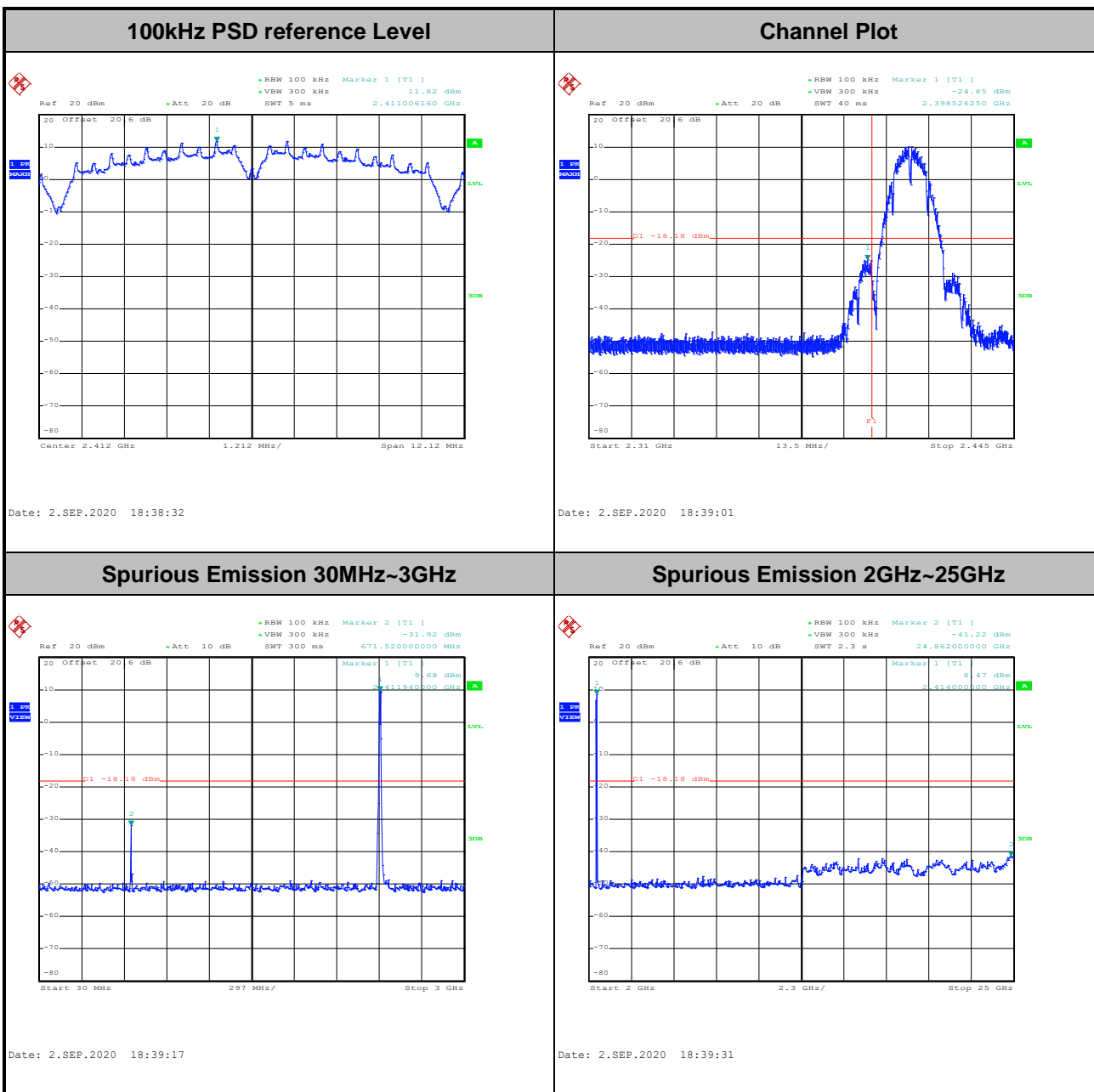
Test Mode :	802.11n HT40	Test Channel :	09
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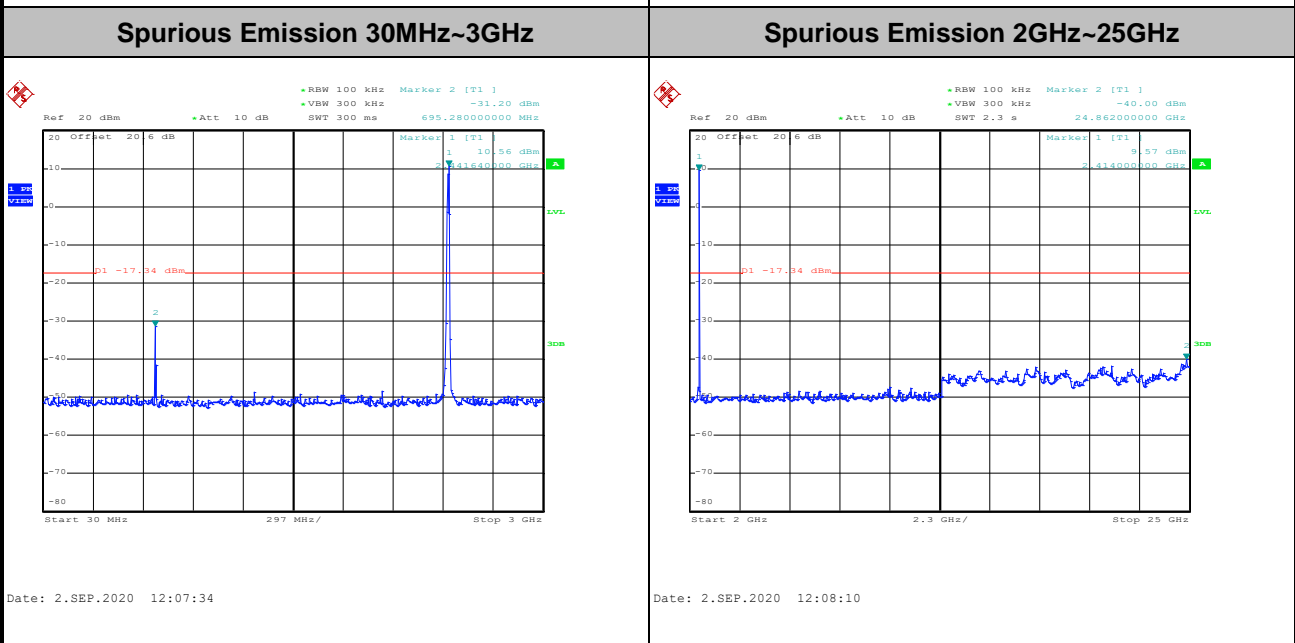
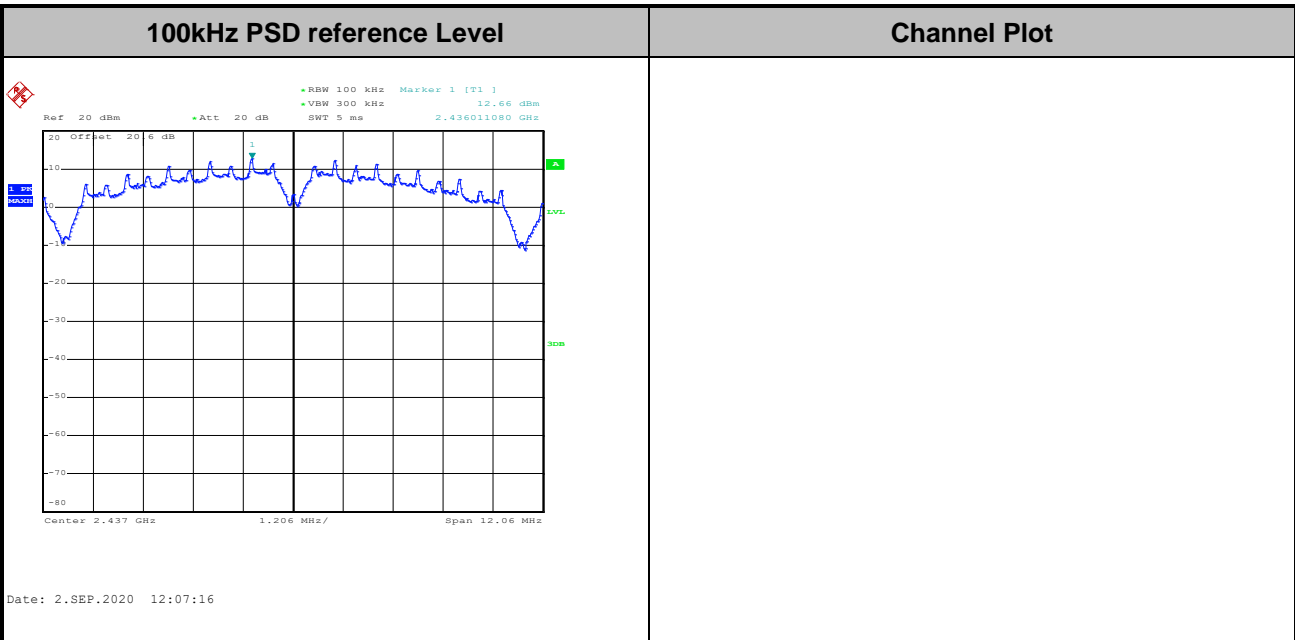
Number of TX = 2, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
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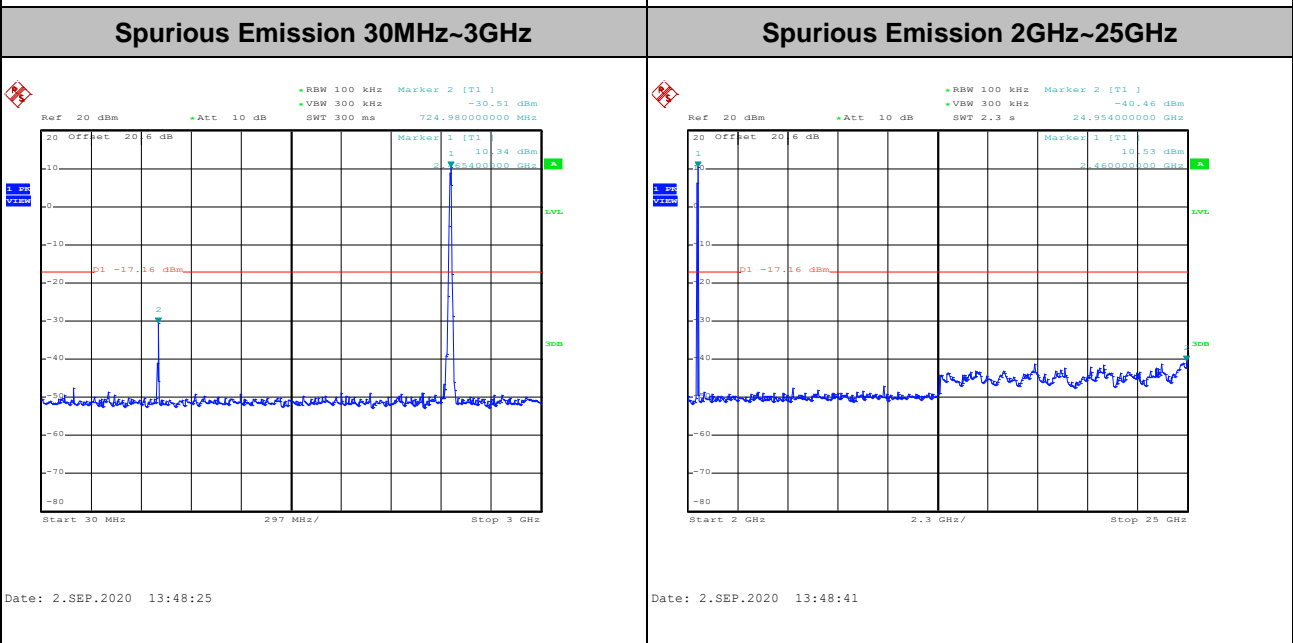
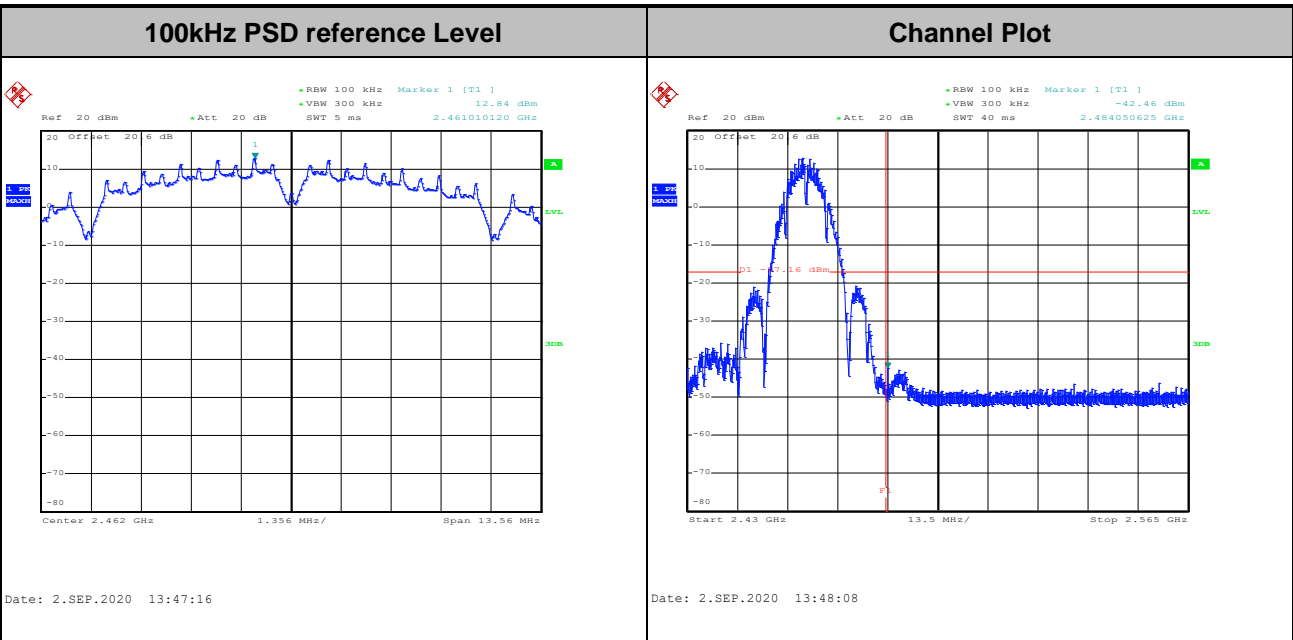


Test Mode :	802.11b	Test Channel :	06
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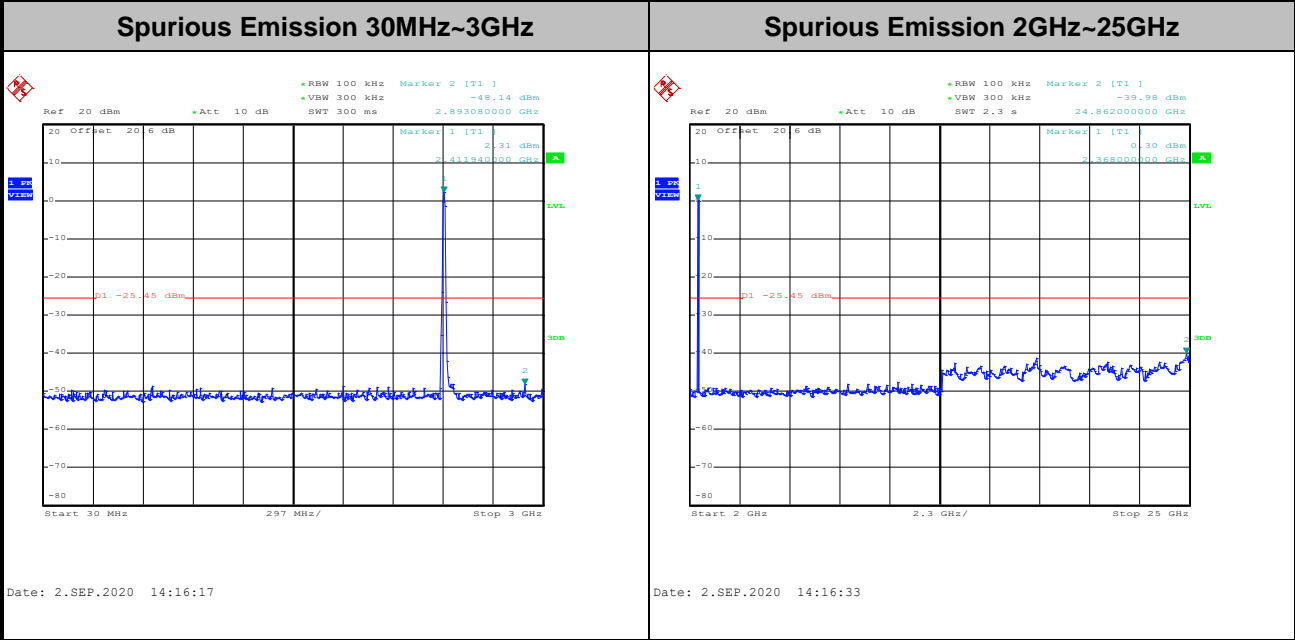
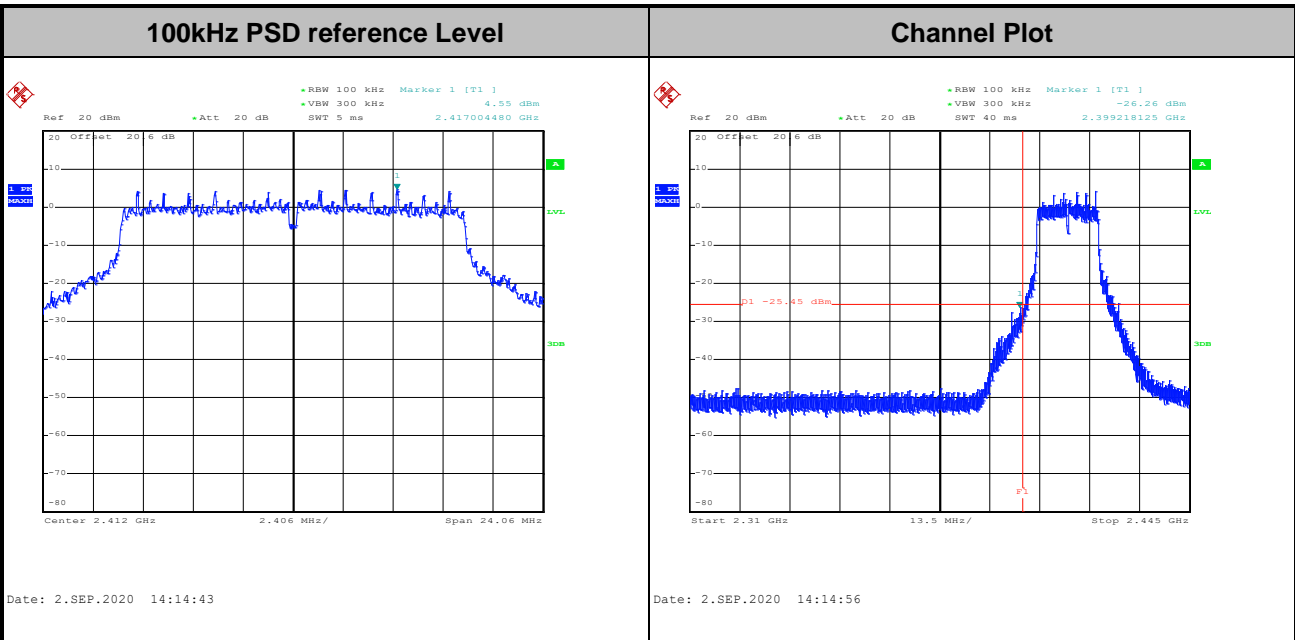


Test Mode :	802.11b	Test Channel :	11
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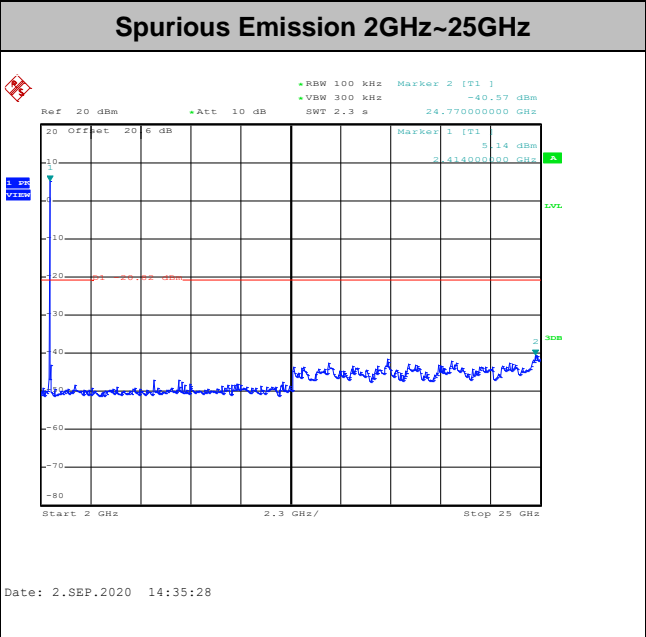
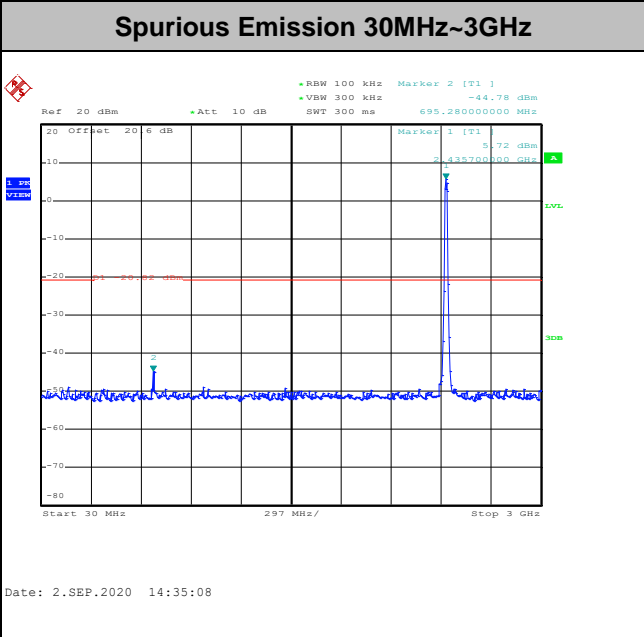
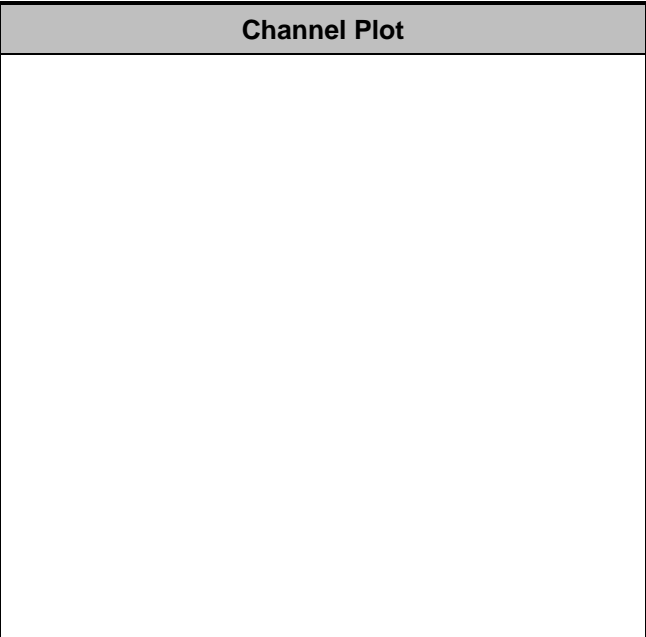
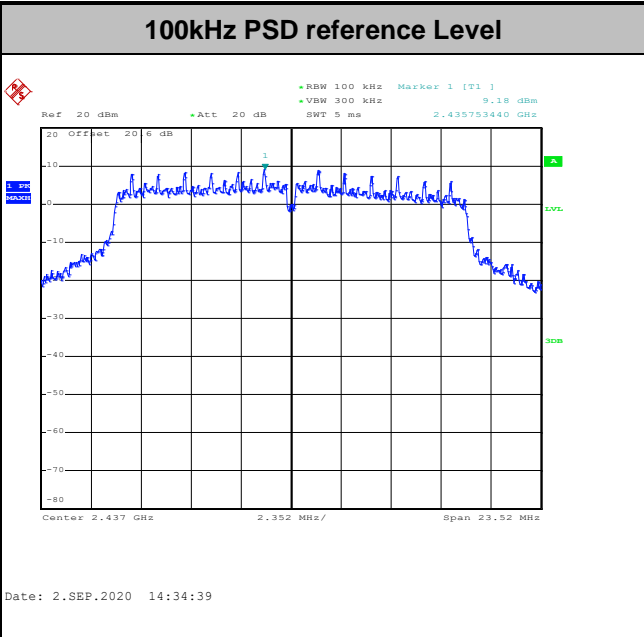


Test Mode : 802.11g Test Channel : 01



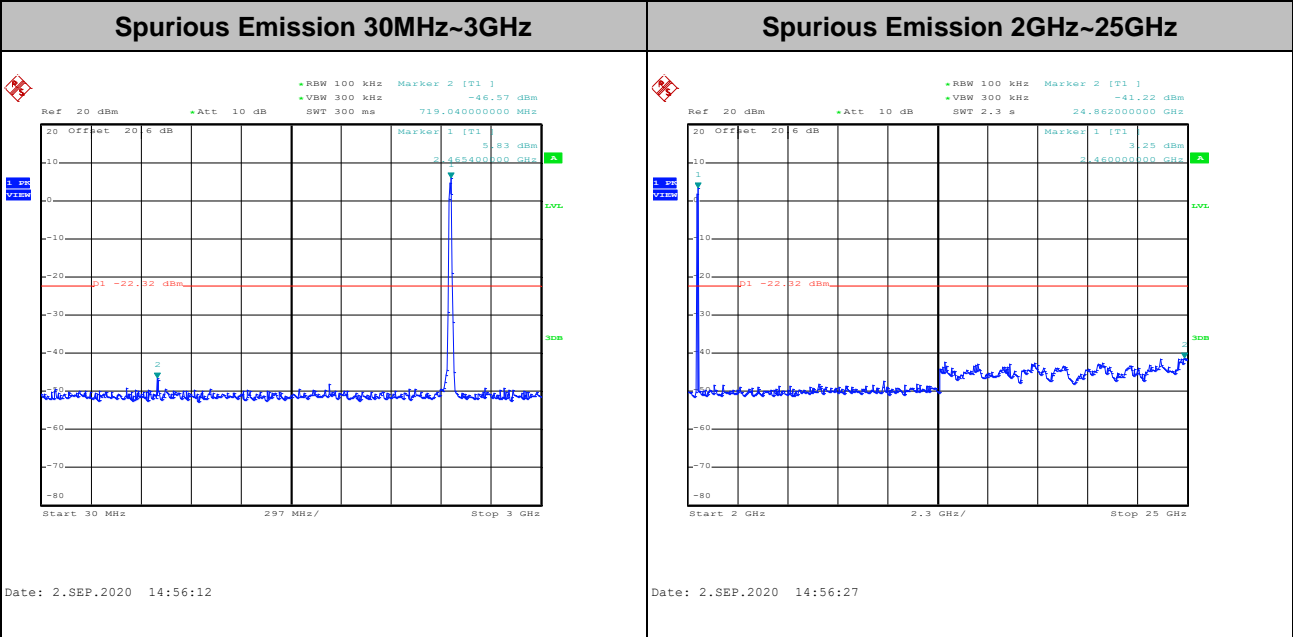
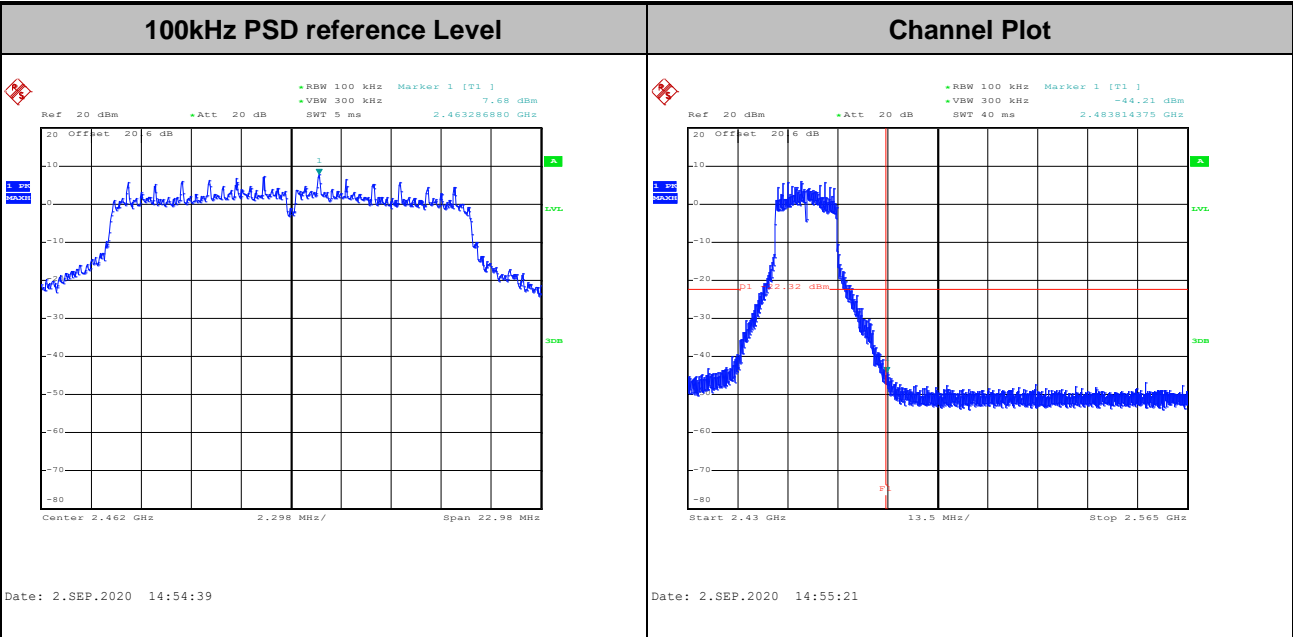


Test Mode :	802.11g	Test Channel :	06
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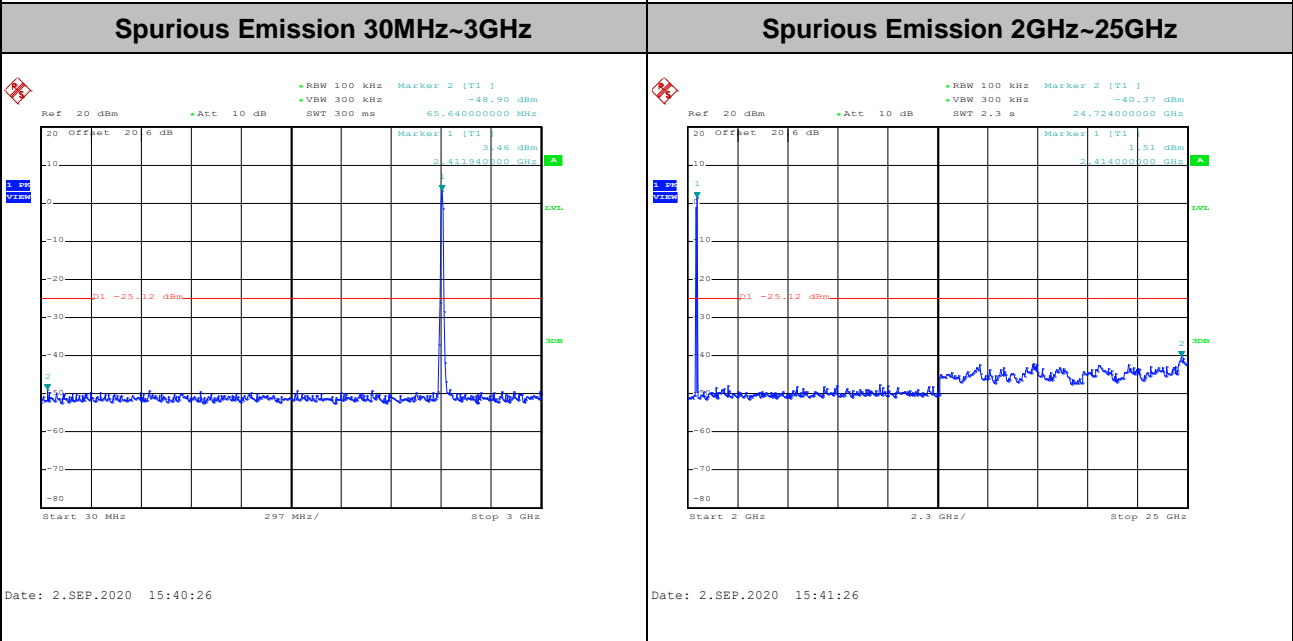
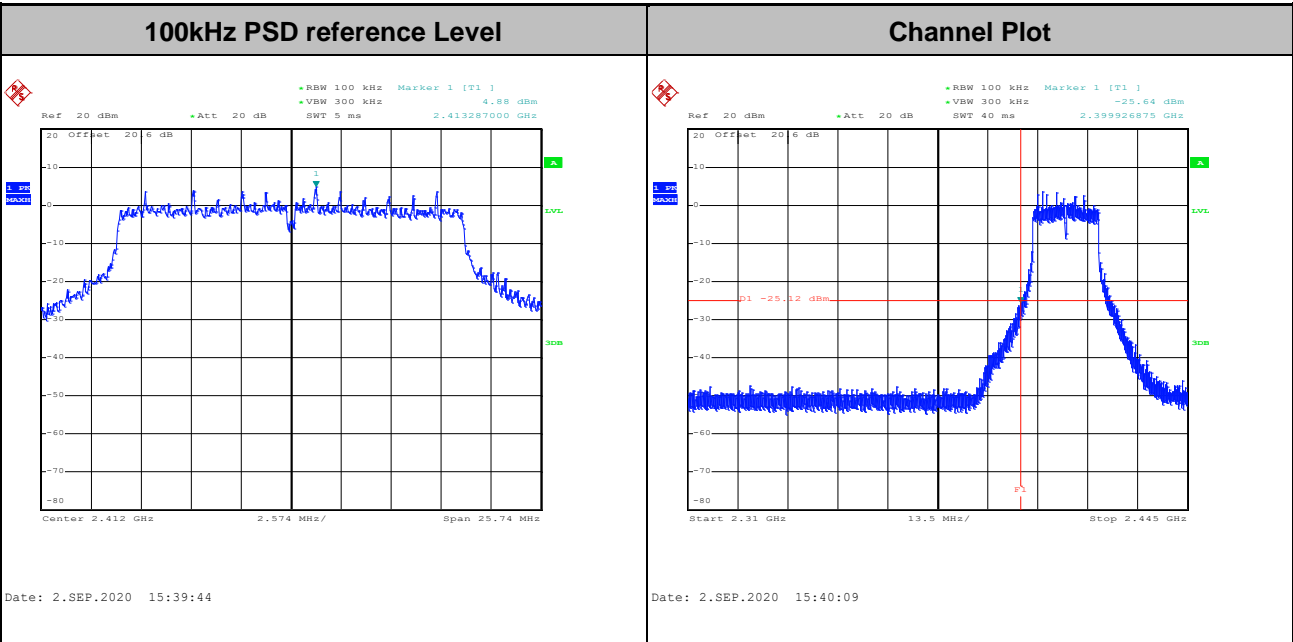


Test Mode :	802.11g	Test Channel :	11
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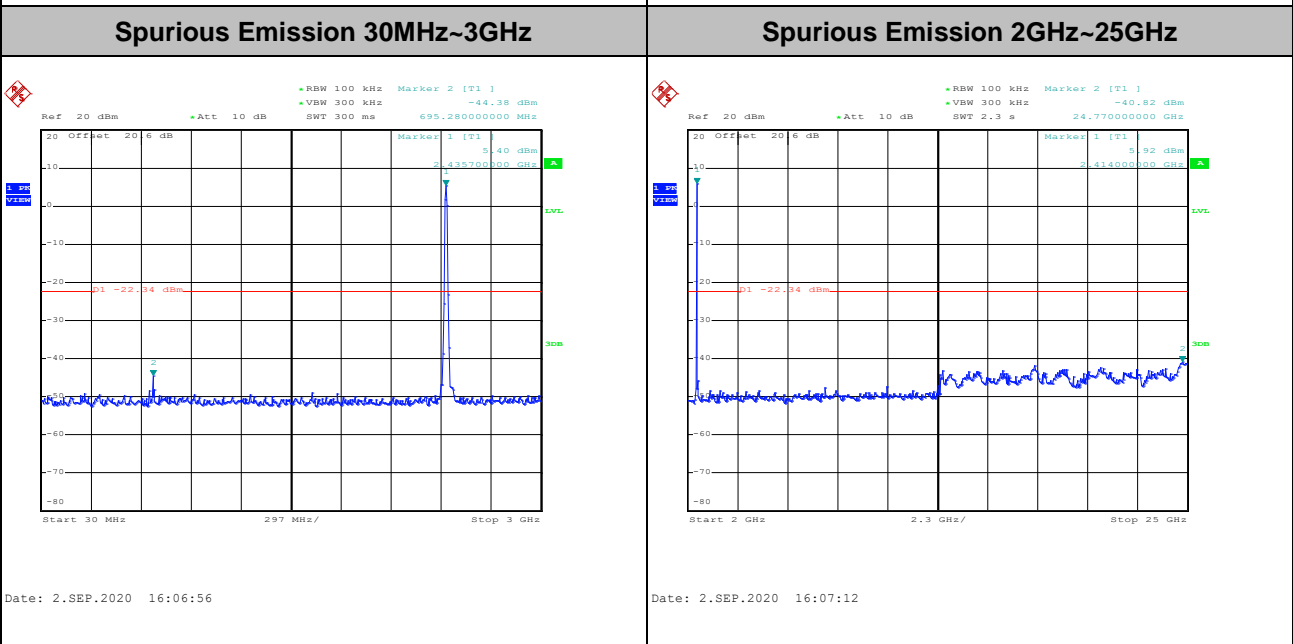
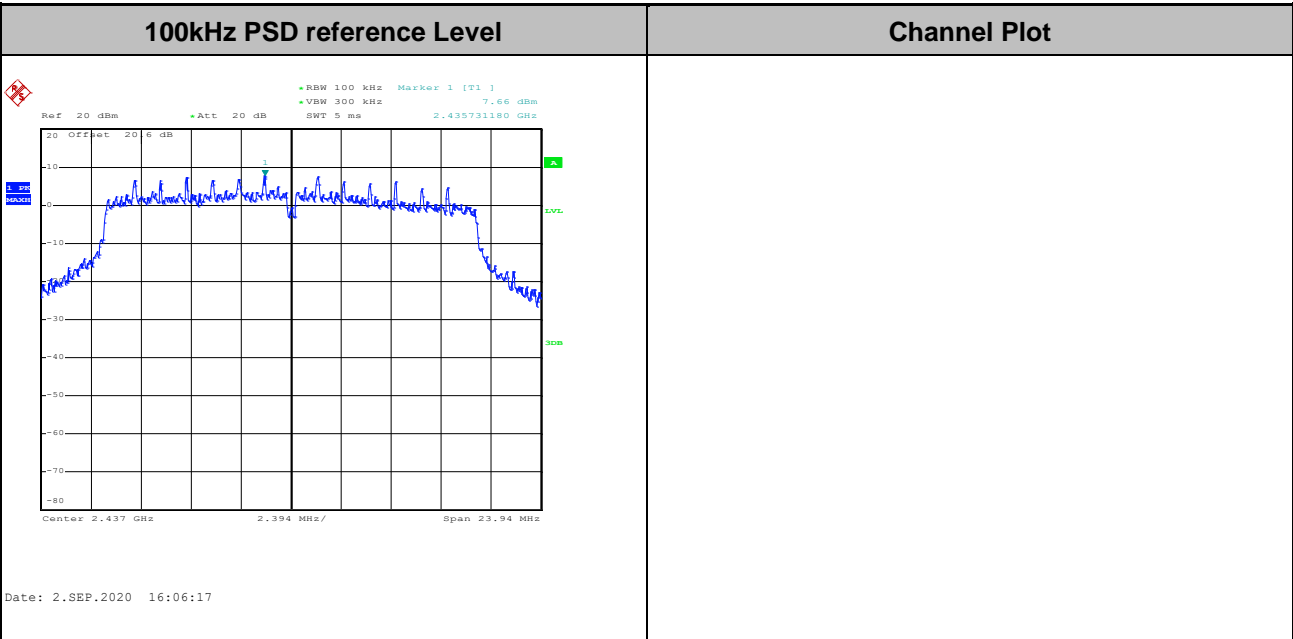


Test Mode :	802.11n HT20	Test Channel :	01
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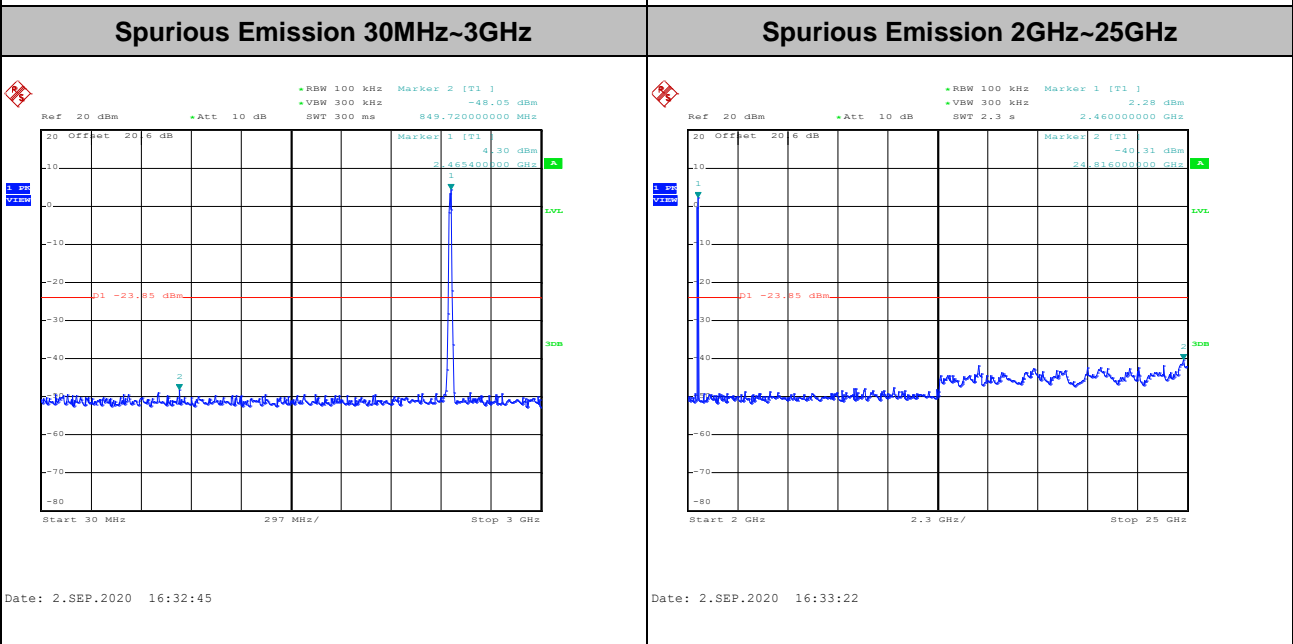
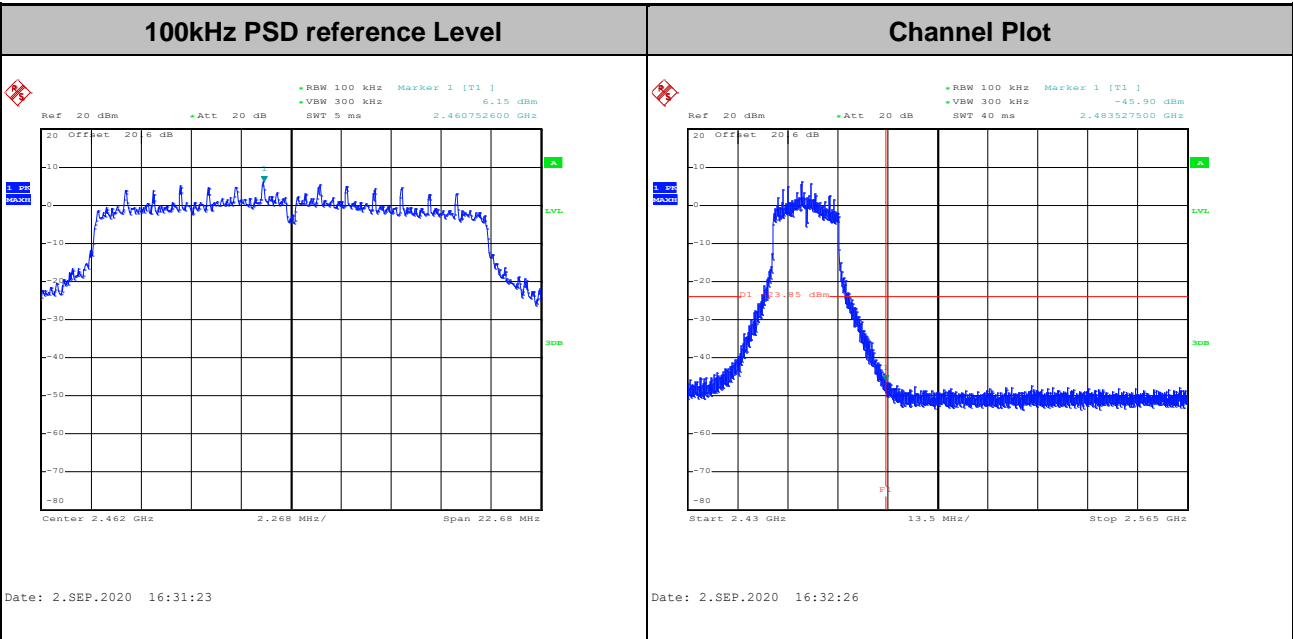


Test Mode :	802.11n HT20	Test Channel :	06
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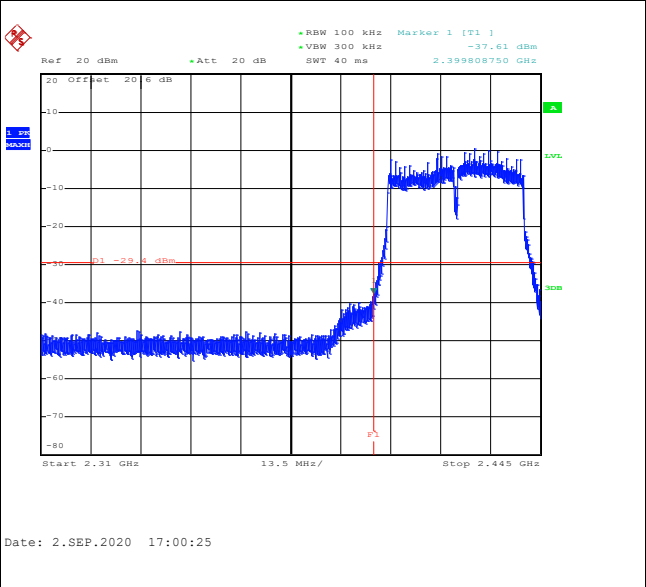
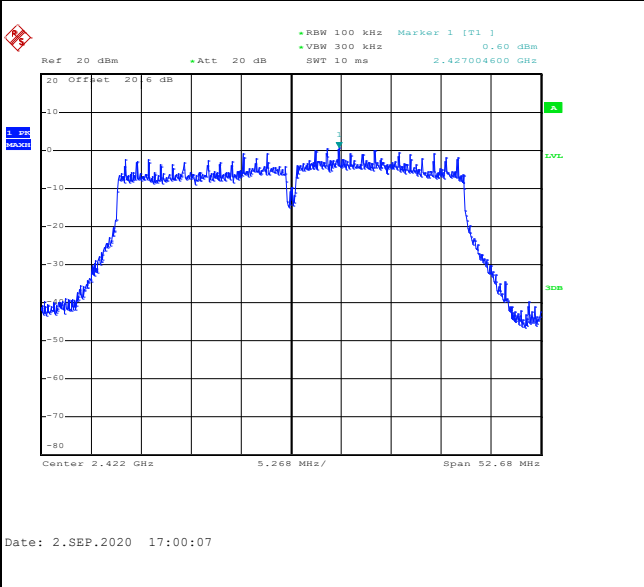
Test Mode :	802.11n HT20	Test Channel :	11
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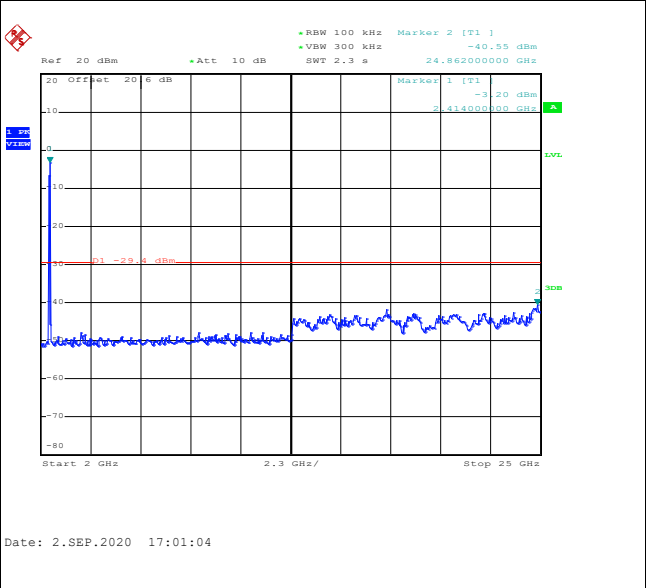
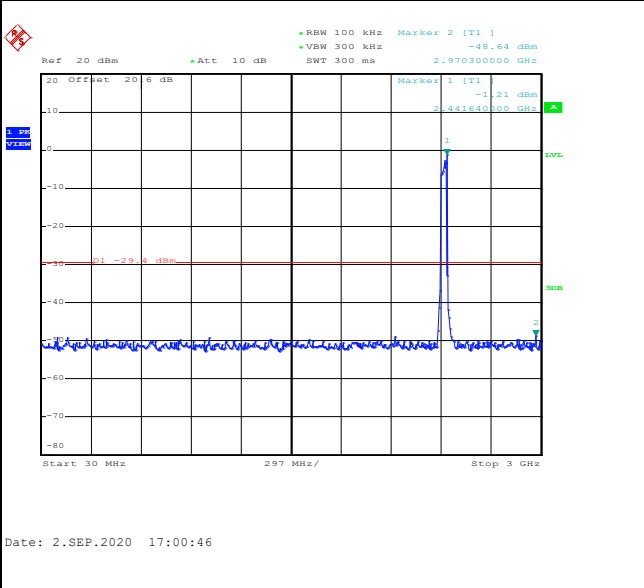


Test Mode :	802.11n HT40	Test Channel :	03
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100kHz PSD reference Level	Channel Plot
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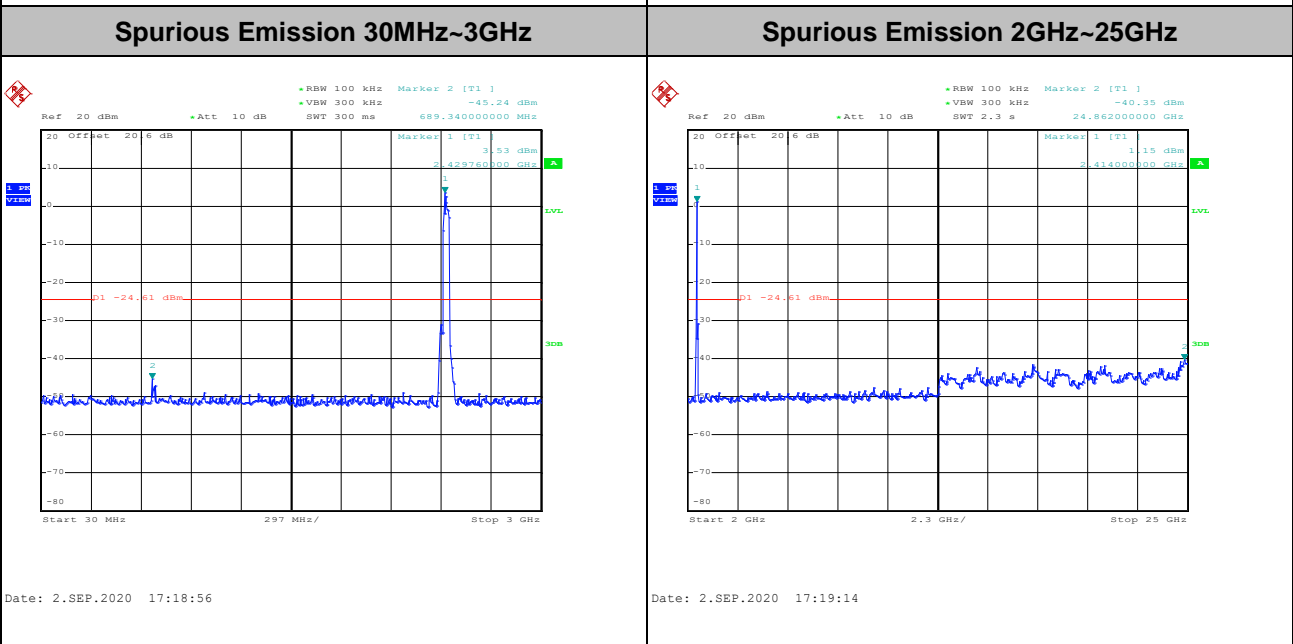
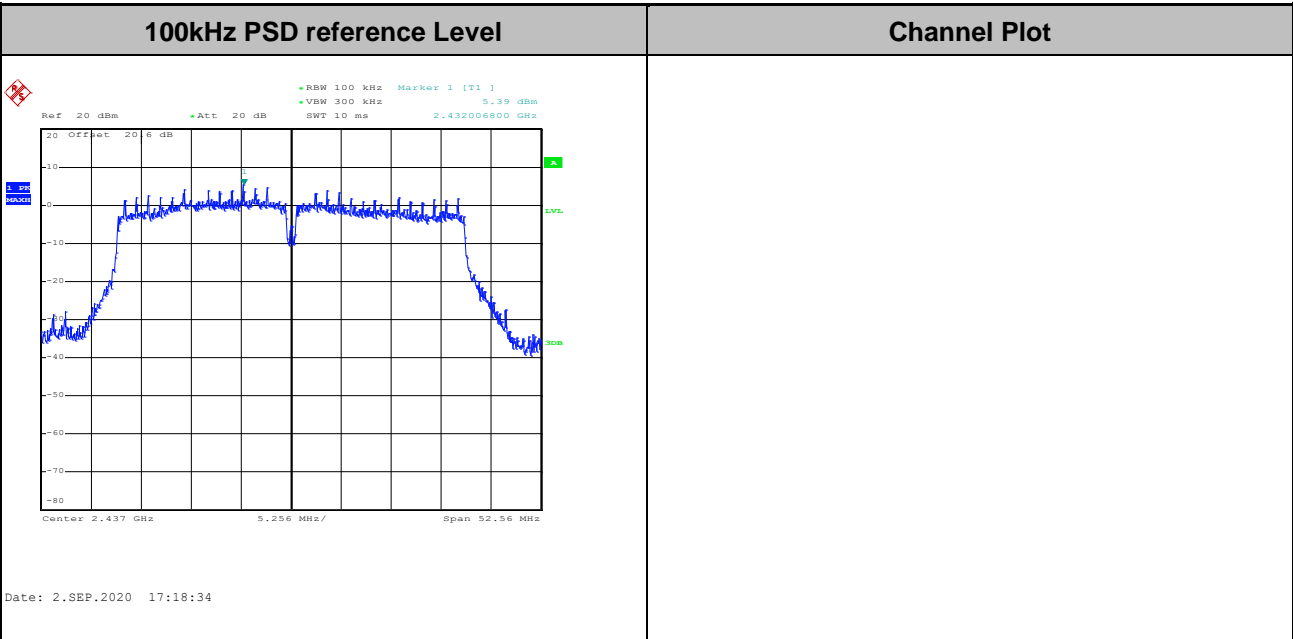


Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
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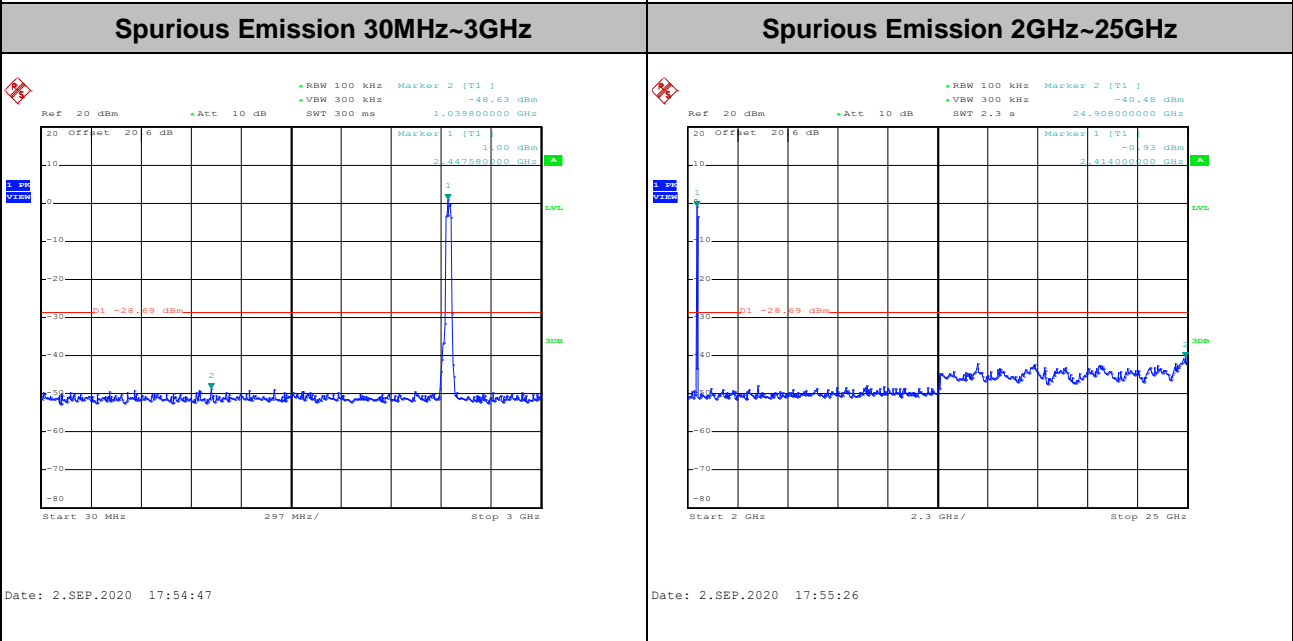
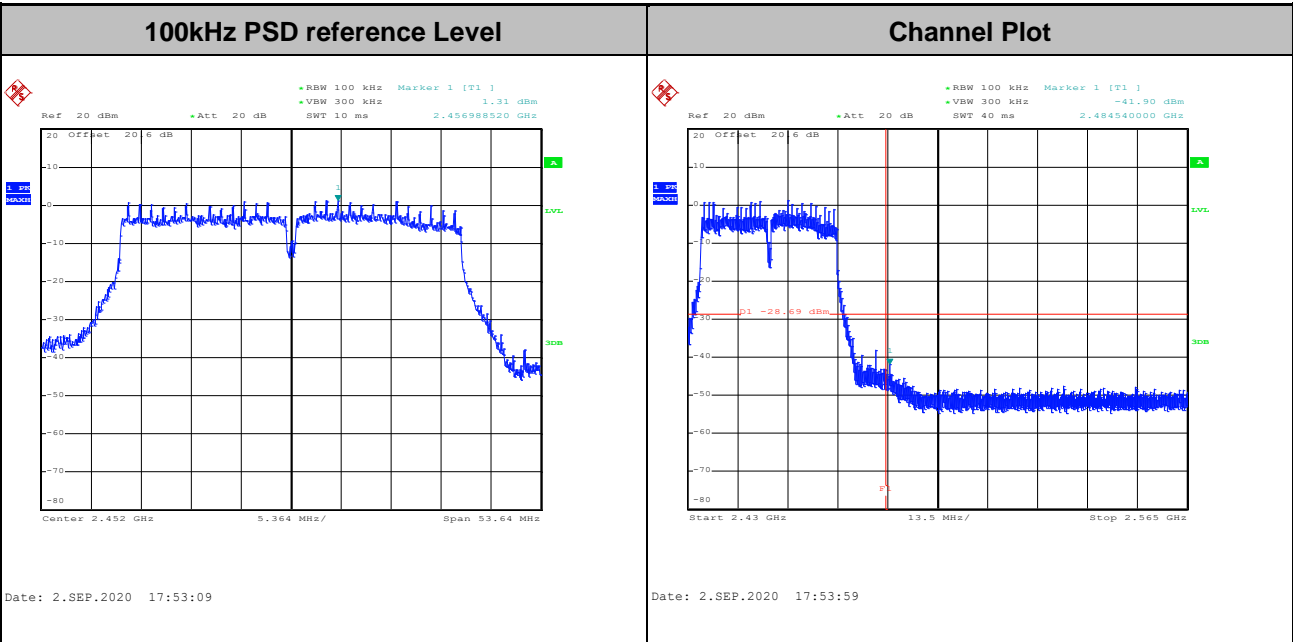


Test Mode :	802.11n HT40	Test Channel :	06
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Test Mode :	802.11n HT40	Test Channel :	09
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

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

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

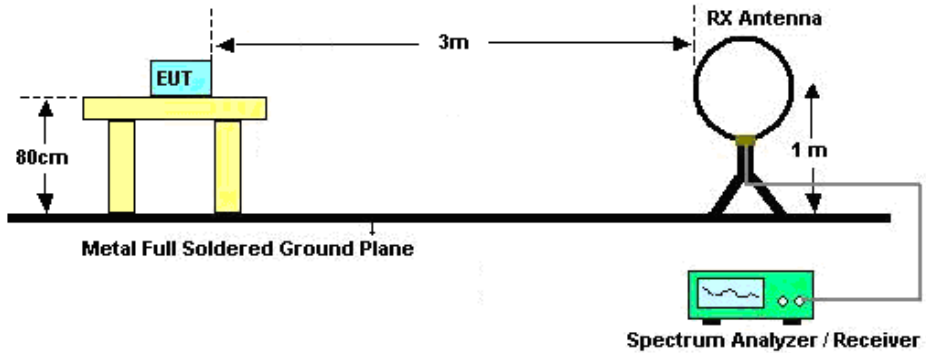


3.5.3 Test Procedures

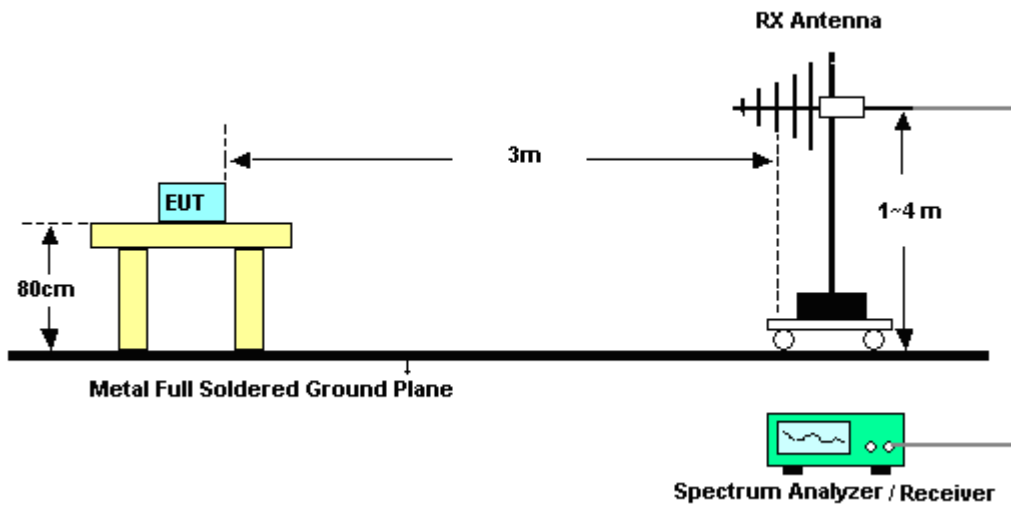
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the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

3.5.4 Test Setup

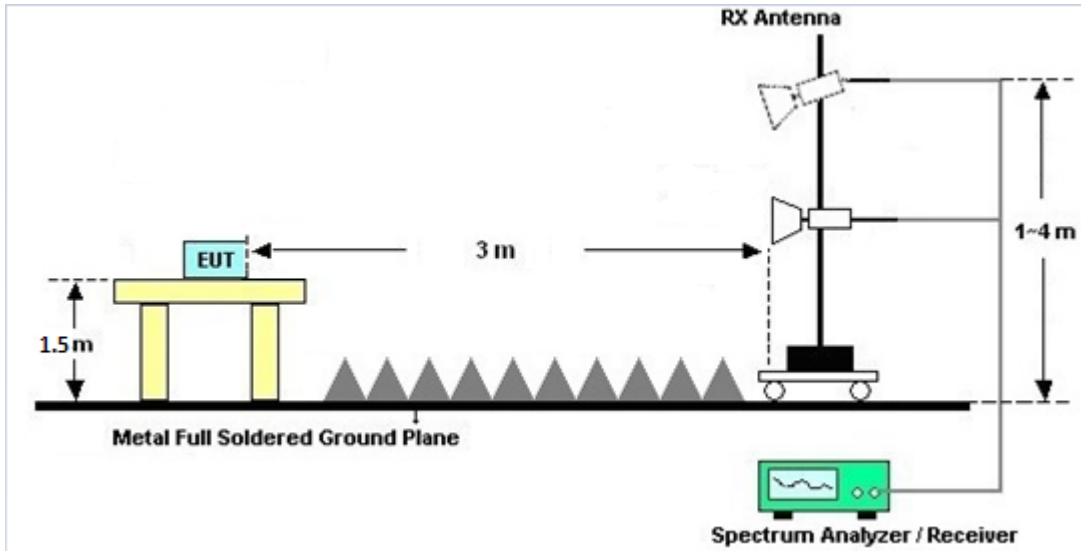
For radiated emissions below 30MHz



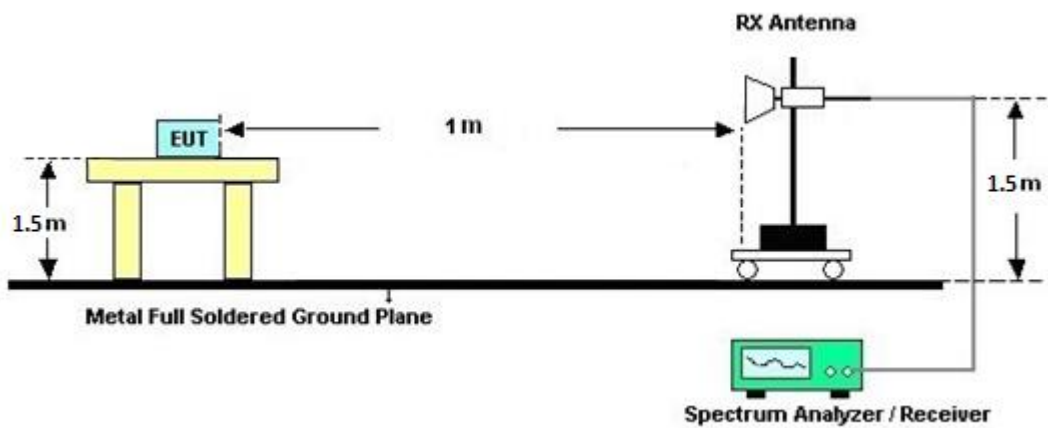
For radiated emissions from 30MHz to 1GHz



For radiated emissions from 1GHz~18GHz



For radiated emissions above 18GHz





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.

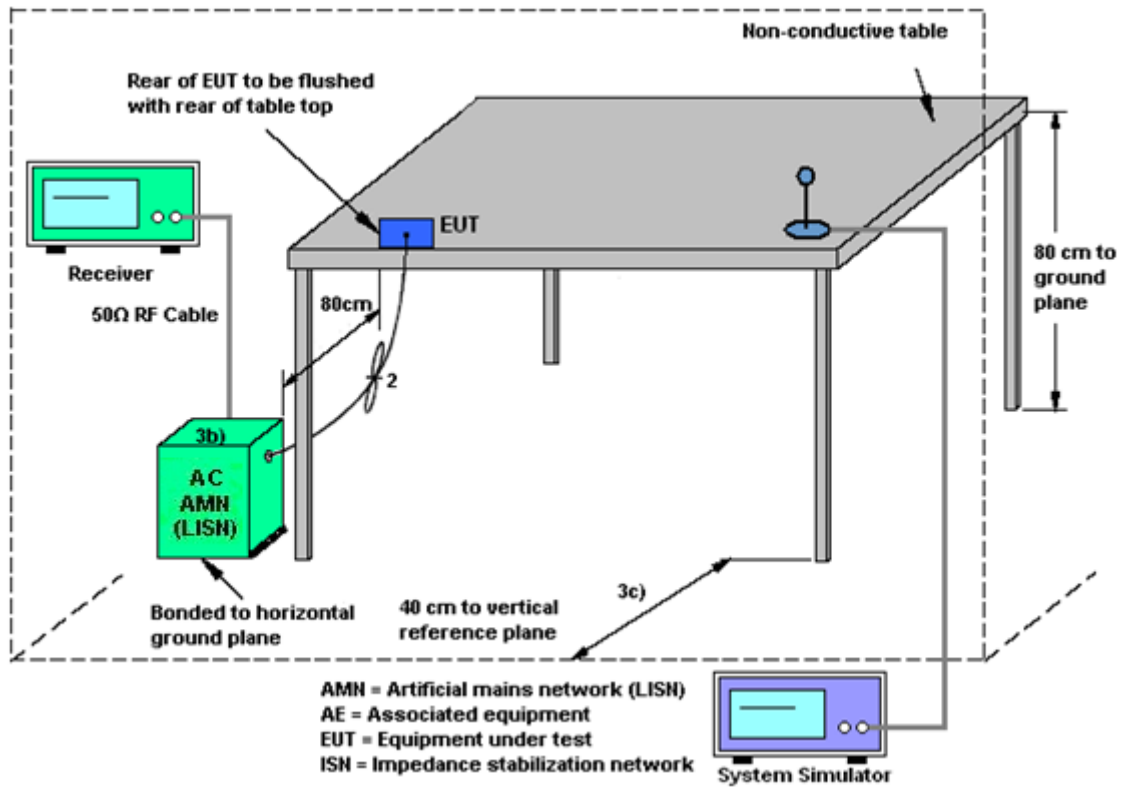
3.6.2 Measuring Instruments

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 should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<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 for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
2.4 GHz	0.85	2.05	2.05	4.48	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	Testo	HTC-1	2	N/A	Mar. 02, 2020	Aug. 05, 2020~ Sep. 04, 2020	Mar. 01, 2021	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W	17I00015S NO36	10MHz~6GHz	Jan. 22, 2020	Aug. 05, 2020~ Sep. 04, 2020	Jan. 21, 2021	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz-30GHz	Nov. 26, 2019	Aug. 05, 2020~ Sep. 04, 2020	Nov. 25, 2020	Conducted (TH05-HY)
Switch Control Manframe	EM Electronics	EMSW18SE	SW200302	N/A	Mar. 17, 2020	Aug. 05, 2020~ Sep. 04, 2020	Mar. 16, 2021	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 04, 2020	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 15, 2019	Aug. 04, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Nov. 07, 2019	Aug. 04, 2020	Nov. 06, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 20, 2019	Aug. 04, 2020	Nov. 19, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 15, 2019	Aug. 04, 2020	Nov. 14, 2020	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 04, 2020	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 02, 2020	Aug. 04, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 02, 2020	Aug. 04, 2020	Jan. 01, 2021	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Jan. 09, 2020	Aug. 08, 2020~ Sep. 02, 2020	Jan. 08, 2021	Radiation (03CH13-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-121 2	1GHz ~ 18GHz	May 20, 2020	Aug. 08, 2020~ Sep. 02, 2020	May 19, 2021	Radiation (03CH13-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	40103&07	30MHz to 1GHz	Apr. 29, 2020	Aug. 08, 2020~ Sep. 02, 2020	Apr. 28, 2021	Radiation (03CH13-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec.10, 2019	Aug. 08, 2020~ Sep. 02, 2020	Dec. 09, 2020	Radiation (03CH13-HY)
Preamplifier	Keysight	83017A	MY532701 47	1GHz~26.5GHz	Oct. 28, 2019	Aug. 08, 2020~ Sep. 02, 2020	Oct. 27, 2020	Radiation (03CH13-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 19, 2020	Aug. 08, 2020~ Sep. 02, 2020	May 18, 2021	Radiation (03CH13-HY)
Amplifier	Sonoma-Instru ment	310 N	187282	9KHz~1GHz	Dec. 17, 2019	Aug. 08, 2020~ Sep. 02, 2020	Dec. 16, 2020	Radiation (03CH13-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 13, 2019	Aug. 08, 2020~ Sep. 02, 2020	Dec. 12, 2020	Radiation (03CH13-HY)
Hygrometer	TECPEL	DTM-303B	TP150115	N/A	Nov. 08, 2019	Aug. 08, 2020~ Sep. 02, 2020	Nov. 07, 2020	Radiation (03CH13-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0030/126E	30M-18G	Feb. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	804793/4	30M-18G	Feb. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24961/4	30M-18G	Feb. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Feb. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30M~40GHz	Mar. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30M~40GHz	Mar. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz~30MHz	Mar. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200485	10Hz~44GHz	Feb. 10, 2020	Aug. 08, 2020~ Sep. 02, 2020	Feb. 09, 2021	Radiation (03CH13-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 08, 2020~ Sep. 02, 2020	N/A	Radiation (03CH13-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Aug. 08, 2020~ Sep. 02, 2020	N/A	Radiation (03CH13-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Aug. 08, 2020~ Sep. 02, 2020	N/A	Radiation (03CH13-HY)
Software	AUDIX	E3 6.2009-8-24c	RK-001124	N/A	N/A	Aug. 08, 2020~ Sep. 02, 2020	N/A	Radiation (03CH13-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 01, 2019	Aug. 08, 2020~ Sep. 02, 2020	Oct. 31, 2020	Radiation (03CH13-HY)
Filter	Wainwright	WHKX8-5872.5-6750-18000-40ST	SN6	6.75GHz High Pass Filter	Mar. 12, 2020	Aug. 08, 2020~ Sep. 02, 2020	Mar. 11, 2021	Radiation (03CH13-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40S	SN12	1.53GHz Low Pass Filter	Sep. 16, 2019	Aug. 08, 2020~ Sep. 02, 2020	Sep. 15, 2020	Radiation (03CH13-HY)



5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8
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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% ($U = 2Uc(y)$)	4.8
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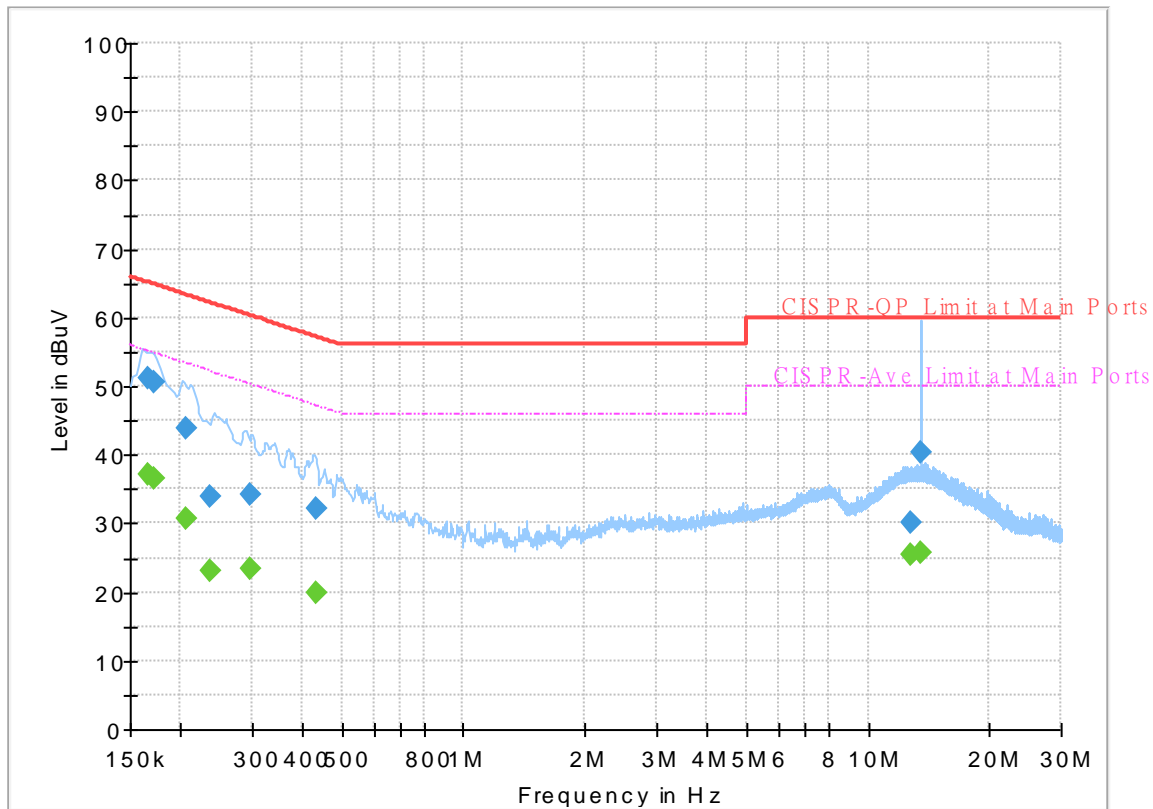
Appendix A. AC Conducted Emission Test Results

Test Engineer :	Tom Lee	Temperature :	23~25°C
		Relative Humidity :	42~50%

EUT Information

Report NO : 072903-01
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



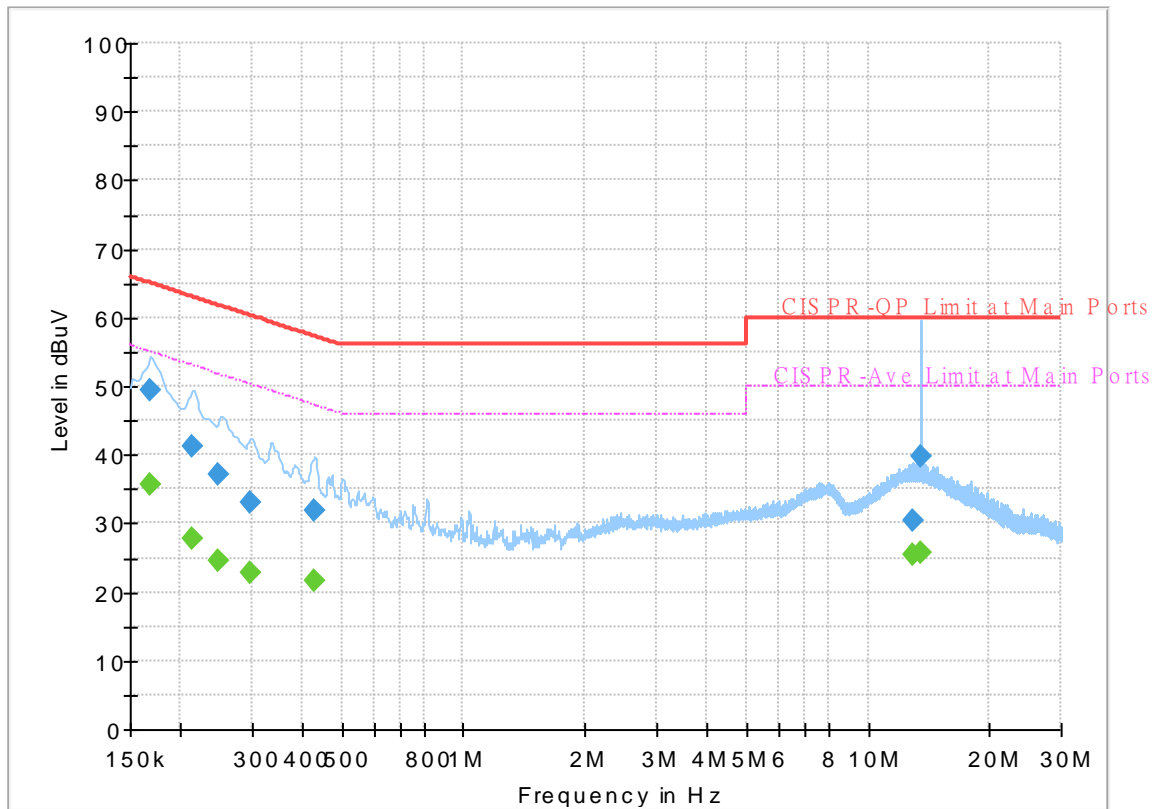
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.165750	---	37.25	55.17	17.92	L1	OFF	19.5
0.165750	51.06	---	65.17	14.11	L1	OFF	19.5
0.171060	---	36.65	54.91	18.26	L1	OFF	19.5
0.171060	50.56	---	64.91	14.35	L1	OFF	19.5
0.206250	---	30.65	53.36	22.71	L1	OFF	19.5
0.206250	43.83	---	63.36	19.53	L1	OFF	19.5
0.237750	---	22.99	52.17	29.18	L1	OFF	19.5
0.237750	33.85	---	62.17	28.32	L1	OFF	19.5
0.296250	---	23.44	50.35	26.91	L1	OFF	19.5
0.296250	34.07	---	60.35	26.28	L1	OFF	19.5
0.431250	---	19.76	47.23	27.47	L1	OFF	19.5
0.431250	32.11	---	57.23	25.12	L1	OFF	19.5
12.700500	---	25.30	50.00	24.70	L1	OFF	19.8
12.700500	30.22	---	60.00	29.78	L1	OFF	19.8
13.560000	---	25.65	50.00	24.35	L1	OFF	19.8
13.560000	40.46	---	60.00	19.54	L1	OFF	19.8

EUT Information

Report NO : 072903-01
 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)
0.168000	---	35.57	55.06	19.49	N	OFF	19.5
0.168000	49.28	---	65.06	15.78	N	OFF	19.5
0.213000	---	27.70	53.09	25.39	N	OFF	19.5
0.213000	41.17	---	63.09	21.92	N	OFF	19.5
0.249000	---	24.62	51.79	27.17	N	OFF	19.5
0.249000	37.16	---	61.79	24.63	N	OFF	19.5
0.296250	---	22.80	50.35	27.55	N	OFF	19.5
0.296250	32.98	---	60.35	27.37	N	OFF	19.5
0.428550	---	21.56	47.28	25.72	N	OFF	19.5
0.428550	31.79	---	57.28	25.49	N	OFF	19.5
12.876090	---	25.56	50.00	24.44	N	OFF	19.9
12.876090	30.53	---	60.00	29.47	N	OFF	19.9
13.560000	---	25.83	50.00	24.17	N	OFF	19.9
13.560000	39.75	---	60.00	20.25	N	OFF	19.9



Appendix B. Radiated Spurious Emission

Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	22.8~24.2°C
		Relative Humidity :	51.2~58.5%

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		2313.36	56.48	-17.52	74	42.09	27.77	13.92	27.3	143	219	P	H	
		2389.065	45.23	-8.77	54	30.91	27.62	13.99	27.29	143	219	A	H	
	*	2412	107.82	-	-	93.51	27.58	14.01	27.28	143	219	P	H	
	*	2412	104.65	-	-	90.34	27.58	14.01	27.28	143	219	A	H	
													H	
			2329.95	56.02	-17.98	74	41.65	27.74	13.93	27.3	306	355	P	V
			2389.17	44.73	-9.27	54	30.41	27.62	13.99	27.29	306	355	A	V
	*		2412	105.31	-	-	91	27.58	14.01	27.28	306	355	P	V
	*		2412	102.08	-	-	87.77	27.58	14.01	27.28	306	355	A	V
														V
802.11b CH 06 2437MHz		2376.36	55.42	-18.58	74	41.08	27.65	13.98	27.29	143	191	P	H	
		2389.94	44.16	-9.84	54	29.84	27.62	13.99	27.29	143	191	A	H	
	*	2437	107.81	-	-	93.53	27.53	14.03	27.28	143	191	P	H	
	*	2437	104.61	-	-	90.33	27.53	14.03	27.28	143	191	A	H	
			2489.92	55.15	-18.85	74	40.84	27.5	14.08	27.27	143	191	P	H
			2484.04	44.63	-9.37	54	30.32	27.5	14.08	27.27	143	191	A	H
			2344.86	55.24	-18.76	74	40.87	27.71	13.95	27.29	345	344	P	V
			2383.78	44.03	-9.97	54	29.71	27.63	13.98	27.29	345	344	A	V
	*		2437	107.28	-	-	93	27.53	14.03	27.28	345	344	P	V
	*		2437	103.92	-	-	89.64	27.53	14.03	27.28	345	344	A	V
			2484.88	55.21	-18.79	74	40.9	27.5	14.08	27.27	345	344	P	V
			2483.83	44.32	-9.68	54	30.01	27.5	14.08	27.27	345	344	A	V



802.11b CH 11 2462MHz	*	2462	110.41	-	-	96.13	27.5	14.06	27.28	200	128	P	H
	*	2462	107.4	-	-	93.12	27.5	14.06	27.28	200	128	A	H
		2483.68	58.72	-15.28	74	44.41	27.5	14.08	27.27	200	128	P	H
		2483.52	51.11	-2.89	54	36.8	27.5	14.08	27.27	200	128	A	H
													H
													H
	*	2462	105.17	-	-	90.89	27.5	14.06	27.28	284	82	P	V
	*	2462	102.23	-	-	87.95	27.5	14.06	27.28	284	82	A	V
		2487.96	56.23	-17.77	74	41.92	27.5	14.08	27.27	284	82	P	V
		2483.52	47.38	-6.62	54	33.07	27.5	14.08	27.27	284	82	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	42.44	-31.56	74	61.75	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	42.87	-31.13	74	62.18	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	39.01	-34.99	74	58.16	31.2	6.99	57.34	100	0	P	H	
		7311	44.09	-29.91	74	56.08	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	40.37	-33.63	74	59.52	31.2	6.99	57.34	100	0	P	V
			7311	43.98	-30.02	74	55.97	36.78	8.32	57.09	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	38.48	-35.52	74	57.41	31.3	7	57.23	100	0	P	H	
		7386	44.2	-29.8	74	56.51	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	39.06	-34.94	74	57.99	31.3	7	57.23	100	0	P	V
			7386	44.13	-29.87	74	56.44	36.56	8.33	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		2389.905	61.13	-12.87	74	46.81	27.62	13.99	27.29	108	330	P	H	
		2390	52.45	-1.55	54	38.13	27.62	13.99	27.29	108	330	A	H	
	*	2412	109.3	-	-	94.99	27.58	14.01	27.28	108	330	P	H	
	*	2412	101.65	-	-	87.34	27.58	14.01	27.28	108	330	A	H	
													H	
													H	
			2390	62.13	-11.87	74	47.81	27.62	13.99	27.29	145	248	P	V
			2390	51.44	-2.56	54	37.12	27.62	13.99	27.29	145	248	A	V
	*		2412	109	-	-	94.69	27.58	14.01	27.28	145	248	P	V
	*		2412	101.11	-	-	86.8	27.58	14.01	27.28	145	248	A	V
													V	
													V	
802.11g CH 06 2437MHz		2362.92	55.28	-18.72	74	40.94	27.67	13.96	27.29	137	210	P	H	
		2325.4	44.94	-9.06	54	30.56	27.75	13.93	27.3	137	210	A	H	
	*	2437	106.92	-	-	92.64	27.53	14.03	27.28	137	210	P	H	
	*	2437	99.47	-	-	85.19	27.53	14.03	27.28	137	210	A	H	
			2487.05	55.6	-18.4	74	41.29	27.5	14.08	27.27	137	210	P	H
			2484.53	45.85	-8.15	54	31.54	27.5	14.08	27.27	137	210	A	H
			2356.48	55.53	-18.47	74	41.17	27.69	13.96	27.29	346	340	P	V
			2380.84	45.18	-8.82	54	30.85	27.64	13.98	27.29	346	340	A	V
	*		2437	106.71	-	-	92.43	27.53	14.03	27.28	346	340	P	V
	*		2437	98.88	-	-	84.6	27.53	14.03	27.28	346	340	A	V
			2494.26	54.59	-19.41	74	40.28	27.5	14.08	27.27	346	340	P	V
			2483.83	45.3	-8.7	54	30.99	27.5	14.08	27.27	346	340	A	V



802.11g CH 11 2462MHz	*	2462	108.62	-	-	94.34	27.5	14.06	27.28	201	130	P	H
	*	2462	101.15	-	-	86.87	27.5	14.06	27.28	201	130	A	H
		2483.6	61.98	-12.02	74	47.67	27.5	14.08	27.27	201	130	P	H
		2483.52	52.77	-1.23	54	38.46	27.5	14.08	27.27	201	130	A	H
													H
													H
	*	2462	104.35	-	-	90.07	27.5	14.06	27.28	320	76	P	V
	*	2462	96.69	-	-	82.41	27.5	14.06	27.28	320	76	A	V
		2483.56	57.78	-16.22	74	43.47	27.5	14.08	27.27	320	76	P	V
		2483.52	48.98	-5.02	54	34.67	27.5	14.08	27.27	320	76	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	38.46	-35.54	74	57.77	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.32	-35.68	74	57.63	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	38.38	-35.62	74	57.53	31.2	6.99	57.34	100	0	P	H	
		7311	44.11	-29.89	74	56.1	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	38.4	-35.6	74	57.55	31.2	6.99	57.34	100	0	P	V
			7311	43.58	-30.42	74	55.57	36.78	8.32	57.09	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	39.63	-34.37	74	58.56	31.3	7	57.23	100	0	P	H	
		7386	44.2	-29.8	74	56.51	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	39.31	-34.69	74	58.24	31.3	7	57.23	100	0	P	V
			7386	43.85	-30.15	74	56.16	36.56	8.33	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 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		2390	62.7	-11.3	74	48.38	27.62	13.99	27.29	109	324	P	H	
		2390	52.84	-1.16	54	38.52	27.62	13.99	27.29	109	324	A	H	
	*	2412	108.53	-	-	94.22	27.58	14.01	27.28	109	324	P	H	
	*	2412	100.76	-	-	86.45	27.58	14.01	27.28	109	324	A	H	
													H	
													H	
			2390	59.82	-14.18	74	45.5	27.62	13.99	27.29	190	263	P	V
			2390	50.23	-3.77	54	35.91	27.62	13.99	27.29	190	263	A	V
		*	2412	106.58	-	-	92.27	27.58	14.01	27.28	190	263	P	V
		*	2412	98.79	-	-	84.48	27.58	14.01	27.28	190	263	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2331.28	55.4	-18.6	74	41.03	27.74	13.93	27.3	295	207	P	H	
		2313.22	44.95	-9.05	54	30.56	27.77	13.92	27.3	295	207	A	H	
	*	2437	106.98	-	-	92.7	27.53	14.03	27.28	295	207	P	H	
	*	2437	99	-	-	84.72	27.53	14.03	27.28	295	207	A	H	
			2494.05	55.62	-18.38	74	41.31	27.5	14.08	27.27	295	207	P	H
			2484.11	45.42	-8.58	54	31.11	27.5	14.08	27.27	295	207	A	H
			2351.16	55.15	-18.85	74	40.79	27.7	13.95	27.29	346	16	P	V
			2323.44	45.03	-8.97	54	30.65	27.75	13.93	27.3	346	16	A	V
		*	2437	106.42	-	-	92.14	27.53	14.03	27.28	346	16	P	V
		*	2437	98.82	-	-	84.54	27.53	14.03	27.28	346	16	A	V
		2483.5	56.38	-17.62	74	42.07	27.5	14.08	27.27	346	16	P	V	
		2483.83	45.86	-8.14	54	31.55	27.5	14.08	27.27	346	16	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	108.52	-	-	94.24	27.5	14.06	27.28	204	129	P	H
	*	2462	100.6	-	-	86.32	27.5	14.06	27.28	204	129	A	H
		2483.96	61.75	-12.25	74	47.44	27.5	14.08	27.27	204	129	P	H
		2483.52	51.1	-2.9	54	36.79	27.5	14.08	27.27	204	129	A	H
													H
													H
	*	2462	103.2	-	-	88.92	27.5	14.06	27.28	289	79	P	V
	*	2462	95.08	-	-	80.8	27.5	14.06	27.28	289	79	A	V
		2483.56	57.2	-16.8	74	42.89	27.5	14.08	27.27	289	79	P	V
		2483.56	47.91	-6.09	54	33.6	27.5	14.08	27.27	289	79	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11n HT20 CH 01 2412MHz		4824	38.2	-35.8	74	57.51	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.64	-35.36	74	57.95	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	37.96	-36.04	74	57.11	31.2	6.99	57.34	100	0	P	H	
													H	
			7311	43.96	-30.04	74	55.95	36.78	8.32	57.09	100	0	P	H
														H
			4874	37.9	-36.1	74	57.05	31.2	6.99	57.34	100	0	P	V
			7311	43.27	-30.73	74	55.26	36.78	8.32	57.09	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	37.9	-36.1	74	56.83	31.3	7	57.23	100	0	P	H	
													H	
			7386	43.2	-30.8	74	55.51	36.56	8.33	57.2	100	0	P	H
														H
			4924	37.34	-36.66	74	56.27	31.3	7	57.23	100	0	P	V
			7386	44.3	-29.7	74	56.61	36.56	8.33	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 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.94	62.71	-11.29	74	48.39	27.62	13.99	27.29	102	323	P	H
		2389.94	52.35	-1.65	54	38.03	27.62	13.99	27.29	102	323	A	H
	*	2422	104.53	-	-	90.23	27.56	14.02	27.28	102	323	P	H
	*	2422	96.32	-	-	82.02	27.56	14.02	27.28	102	323	A	H
		2484.04	55.79	-18.21	74	41.48	27.5	14.08	27.27	102	323	P	H
		2483.5	46.17	-7.83	54	31.86	27.5	14.08	27.27	102	323	A	H
		2389.94	60.3	-13.7	74	45.98	27.62	13.99	27.29	153	259	P	V
		2389.94	52.25	-1.75	54	37.93	27.62	13.99	27.29	153	259	A	V
	*	2422	103.24	-	-	88.94	27.56	14.02	27.28	153	259	P	V
	*	2422	95.15	-	-	80.85	27.56	14.02	27.28	153	259	A	V
		2484.67	55.32	-18.68	74	41.01	27.5	14.08	27.27	153	259	P	V
		2484.88	46.1	-7.9	54	31.79	27.5	14.08	27.27	153	259	A	V
802.11n HT40 CH 06 2437MHz		2389.24	58.35	-15.65	74	44.03	27.62	13.99	27.29	331	199	P	H
		2389.94	48.98	-5.02	54	34.66	27.62	13.99	27.29	331	199	A	H
	*	2437	104.96	-	-	90.68	27.53	14.03	27.28	331	199	P	H
	*	2437	97.33	-	-	83.05	27.53	14.03	27.28	331	199	A	H
		2483.83	62.07	-11.93	74	47.76	27.5	14.08	27.27	331	199	P	H
		2483.5	51.33	-2.67	54	37.02	27.5	14.08	27.27	331	199	A	H
		2389.52	55.27	-18.73	74	40.95	27.62	13.99	27.29	332	352	P	V
		2389.94	45.67	-8.33	54	31.35	27.62	13.99	27.29	332	352	A	V
	*	2437	103.47	-	-	89.19	27.53	14.03	27.28	332	352	P	V
	*	2437	95.98	-	-	81.7	27.53	14.03	27.28	332	352	A	V
		2483.69	62.96	-11.04	74	48.65	27.5	14.08	27.27	332	352	P	V
		2483.55	52.58	-1.42	54	38.27	27.5	14.08	27.27	332	352	A	V



802.11n HT40 CH 09 2452MHz		2362.92	54.99	-19.01	74	40.65	27.67	13.96	27.29	200	131	P	H
		2371.32	45.14	-8.86	54	30.8	27.66	13.97	27.29	200	131	A	H
	*	2452	104.4	-	-	90.13	27.5	14.05	27.28	200	131	P	H
	*	2452	96.36	-	-	82.09	27.5	14.05	27.28	200	131	A	H
		2484.18	61.22	-12.78	74	46.91	27.5	14.08	27.27	200	131	P	H
		2484.6	52.27	-1.73	54	37.96	27.5	14.08	27.27	200	131	A	H
		2370.9	54.86	-19.14	74	40.52	27.66	13.97	27.29	295	82	P	V
		2373.14	44.97	-9.03	54	30.64	27.65	13.97	27.29	295	82	A	V
	*	2452	98.92	-	-	84.65	27.5	14.05	27.28	295	82	P	V
	*	2452	90.63	-	-	76.36	27.5	14.05	27.28	295	82	A	V
		2484.74	57.74	-16.26	74	43.43	27.5	14.08	27.27	295	82	P	V
		2483.62	48.52	-5.48	54	34.21	27.5	14.08	27.27	295	82	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	38.49	-35.51	74	57.72	31.19	6.99	57.41	100	0	P	H
		7266	44.2	-29.8	74	56.1	36.8	8.32	57.02	100	0	P	H
													H
													H
		4844	38.55	-35.45	74	57.78	31.19	6.99	57.41	100	0	P	V
		7266	43.95	-30.05	74	55.85	36.8	8.32	57.02	100	0	P	V
802.11n HT40 CH 06 2437MHz		4874	37.41	-36.59	74	56.56	31.2	6.99	57.34	100	0	P	H
		7311	43.16	-30.84	74	55.15	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	37.65	-36.35	74	56.8	31.2	6.99	57.34	100	0	P	V
		7311	43.39	-30.61	74	55.38	36.78	8.32	57.09	100	0	P	V
802.11n HT40 CH 09 2452MHz		4904	37.34	-36.66	74	56.4	31.22	7	57.28	100	0	P	H
		7356	44.09	-29.91	74	56.23	36.68	8.33	57.15	100	0	P	H
													H
													H
		4904	37.39	-36.61	74	56.45	31.22	7	57.28	100	0	P	V
		7356	43.42	-30.58	74	55.56	36.68	8.33	57.15	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT40 LF		30.97	22.66	-17.34	40	30.2	24.21	0.48	32.23	-	-	P	H	
		129.91	22.01	-21.49	43.5	35.58	17.61	0.99	32.17	-	-	P	H	
		312.27	26.34	-19.66	46	37.36	19.41	1.52	31.95	-	-	P	H	
		473.29	27.89	-18.11	46	34.78	23.52	1.87	32.28	-	-	P	H	
		914.64	32.19	-13.81	46	32.02	28.94	2.68	31.45	-	-	P	H	
		956.35	32.75	-13.25	46	30.3	30.66	2.71	30.92	100	0	P	H	
														H
														H
														H
														H
														H
														H
														H
			93.05	23.2	-20.3	43.5	39.24	15.29	0.81	32.14	-	-	P	V
			108.57	22.98	-20.52	43.5	37.28	16.95	0.88	32.13	-	-	P	V
			114.39	23.44	-20.06	43.5	37.39	17.26	0.93	32.14	-	-	P	V
			123.12	25.4	-18.1	43.5	38.91	17.67	0.98	32.16	-	-	P	V
			193.93	20.5	-23	43.5	36.62	14.93	1.25	32.3	-	-	P	V
			914.64	33.3	-12.7	46	33.13	28.94	2.68	31.45	100	0	P	V
														V
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



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

WIFI Ant. 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)	
802.11b CH 01 2412MHz		2337.72	55.59	-18.41	74	41.23	27.72	13.94	27.3	132	293	P	H	
		2390	46.15	-7.85	54	31.83	27.62	13.99	27.29	132	293	A	H	
	*	2412	112.48	-	-	98.17	27.58	14.01	27.28	132	293	P	H	
	*	2412	109.28	-	-	94.97	27.58	14.01	27.28	132	293	A	H	
													H	
														H
			2381.295	55.22	-18.78	74	40.89	27.64	13.98	27.29	400	168	P	V
			2389.17	45.95	-8.05	54	31.63	27.62	13.99	27.29	400	168	A	V
	*		2412	111.69	-	-	97.38	27.58	14.01	27.28	400	168	P	V
	*		2412	108.48	-	-	94.17	27.58	14.01	27.28	400	168	A	V
														V
														V
802.11b CH 06 2437MHz		2389.1	56.29	-17.71	74	41.97	27.62	13.99	27.29	137	258	P	H	
		2389.94	44.97	-9.03	54	30.65	27.62	13.99	27.29	137	258	A	H	
	*	2437	114.27	-	-	99.99	27.53	14.03	27.28	137	258	P	H	
	*	2437	111.12	-	-	96.84	27.53	14.03	27.28	137	258	A	H	
			2488.1	55.67	-18.33	74	41.36	27.5	14.08	27.27	137	258	P	H
			2484.04	45.85	-8.15	54	31.54	27.5	14.08	27.27	137	258	A	H
			2384.76	55.51	-18.49	74	41.18	27.63	13.99	27.29	388	160	P	V
			2389.94	44.35	-9.65	54	30.03	27.62	13.99	27.29	388	160	A	V
	*		2437	110.25	-	-	95.97	27.53	14.03	27.28	388	160	P	V
	*		2437	106.9	-	-	92.62	27.53	14.03	27.28	388	160	A	V
			2497.48	55.21	-18.79	74	40.89	27.5	14.09	27.27	388	160	P	V
			2484.11	44.72	-9.28	54	30.41	27.5	14.08	27.27	388	160	A	V



802.11b CH 11 2462MHz	*	2462	114.45	-	-	100.17	27.5	14.06	27.28	132	259	P	H
	*	2462	111.22	-	-	96.94	27.5	14.06	27.28	132	259	A	H
		2483.56	57.34	-16.66	74	43.03	27.5	14.08	27.27	132	259	P	H
		2483.52	50.11	-3.89	54	35.8	27.5	14.08	27.27	132	259	A	H
													H
													H
	*	2462	111.08	-	-	96.8	27.5	14.06	27.28	390	161	P	V
	*	2462	107.85	-	-	93.57	27.5	14.06	27.28	390	161	A	V
		2483.52	56.07	-17.93	74	41.76	27.5	14.08	27.27	390	161	P	V
		2483.52	47.03	-6.97	54	32.72	27.5	14.08	27.27	390	161	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. 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)
802.11b CH 01 2412MHz		4824	39.33	-34.67	74	58.64	31.15	6.99	57.45	100	0	P	H
													H
													H
													H
		4824	40.12	-33.88	74	59.43	31.15	6.99	57.45	100	0	P	V
													V
													V
802.11b CH 06 2437MHz		4874	38.22	-35.78	74	57.37	31.2	6.99	57.34	100	0	P	H
		7311	43.88	-30.12	74	55.87	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	38.09	-35.91	74	57.24	31.2	6.99	57.34	100	0	P	V
		7311	44.37	-29.63	74	56.36	36.78	8.32	57.09	100	0	P	V
													V
802.11b CH 11 2462MHz		4924	38.08	-35.92	74	57.01	31.3	7	57.23	100	0	P	H
		7386	43.75	-30.25	74	56.06	36.56	8.33	57.2	100	0	P	H
													H
													H
		4924	38.45	-35.55	74	57.38	31.3	7	57.23	100	0	P	V
		7386	44.37	-29.63	74	56.68	36.56	8.33	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. 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)	
802.11g CH 01 2412MHz		2390	63.3	-10.7	74	48.98	27.62	13.99	27.29	184	311	P	H	
		2390	52.21	-1.79	54	37.89	27.62	13.99	27.29	184	311	A	H	
	*	2412	109.75	-	-	95.44	27.58	14.01	27.28	184	311	P	H	
	*	2412	101.75	-	-	87.44	27.58	14.01	27.28	184	311	A	H	
													H	
														H
			2390	62.01	-11.99	74	47.69	27.62	13.99	27.29	196	272	P	V
			2390	52.32	-1.68	54	38	27.62	13.99	27.29	196	272	A	V
	*		2412	110.09	-	-	95.78	27.58	14.01	27.28	196	272	P	V
	*		2412	102.15	-	-	87.84	27.58	14.01	27.28	196	272	A	V
														V
														V
802.11g CH 06 2437MHz		2354.38	55.18	-18.82	74	40.82	27.69	13.96	27.29	100	291	P	H	
		2389.94	45.66	-8.34	54	31.34	27.62	13.99	27.29	100	291	A	H	
	*	2437	111.09	-	-	96.81	27.53	14.03	27.28	100	291	P	H	
	*	2437	103.35	-	-	89.07	27.53	14.03	27.28	100	291	A	H	
			2484.53	56.24	-17.76	74	41.93	27.5	14.08	27.27	100	291	P	H
			2483.62	47.1	-6.9	54	32.79	27.5	14.08	27.27	100	291	A	H
			2353.82	56.71	-17.29	74	42.35	27.69	13.96	27.29	400	142	P	V
			2389.66	45.25	-8.75	54	30.93	27.62	13.99	27.29	400	142	A	V
	*		2437	109.28	-	-	95	27.53	14.03	27.28	400	142	P	V
	*		2437	101.48	-	-	87.2	27.53	14.03	27.28	400	142	A	V
			2485.93	55.74	-18.26	74	41.43	27.5	14.08	27.27	400	142	P	V
			2483.69	45.96	-8.04	54	31.65	27.5	14.08	27.27	400	142	A	V



802.11g CH 11 2462MHz	*	2462	109.71	-	-	95.43	27.5	14.06	27.28	181	315	P	H
	*	2462	101.89	-	-	87.61	27.5	14.06	27.28	181	315	A	H
		2483.52	61.14	-12.86	74	46.83	27.5	14.08	27.27	181	315	P	H
		2483.52	51.98	-2.02	54	37.67	27.5	14.08	27.27	181	315	A	H
													H
													H
	*	2462	109.15	-	-	94.87	27.5	14.06	27.28	113	273	P	V
	*	2462	101.38	-	-	87.1	27.5	14.06	27.28	113	273	A	V
		2484.64	60.63	-13.37	74	46.32	27.5	14.08	27.27	113	273	P	V
		2483.52	52.16	-1.84	54	37.85	27.5	14.08	27.27	113	273	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. 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)	
802.11g CH 01 2412MHz		4824	38.65	-35.35	74	57.96	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.36	-35.64	74	57.67	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	37.93	-36.07	74	57.08	31.2	6.99	57.34	100	0	P	H	
		7311	44.26	-29.74	74	56.25	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	38.02	-35.98	74	57.17	31.2	6.99	57.34	100	0	P	V
			7311	43.64	-30.36	74	55.63	36.78	8.32	57.09	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	38.7	-35.3	74	57.63	31.3	7	57.23	100	0	P	H	
		7386	43.96	-30.04	74	56.27	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	37.63	-36.37	74	56.56	31.3	7	57.23	100	0	P	V
			7386	44	-30	74	56.31	36.56	8.33	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 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 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)	
802.11n HT20 CH 01 2412MHz		2389.8	61.5	-12.5	74	47.18	27.62	13.99	27.29	205	311	P	H	
		2390	50.39	-3.61	54	36.07	27.62	13.99	27.29	205	311	A	H	
	*	2412	106.92	-	-	92.61	27.58	14.01	27.28	205	311	P	H	
	*	2412	98.99	-	-	84.68	27.58	14.01	27.28	205	311	A	H	
													H	
														H
			2390	61.15	-12.85	74	46.83	27.62	13.99	27.29	192	261	P	V
			2390	51.19	-2.81	54	36.87	27.62	13.99	27.29	192	261	A	V
		*	2412	107.55	-	-	93.24	27.58	14.01	27.28	192	261	P	V
		*	2412	99.52	-	-	85.21	27.58	14.01	27.28	192	261	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2379.58	55.37	-18.63	74	41.04	27.64	13.98	27.29	100	294	P	H	
		2389.38	45.83	-8.17	54	31.51	27.62	13.99	27.29	100	294	A	H	
	*	2437	110.55	-	-	96.27	27.53	14.03	27.28	100	294	P	H	
	*	2437	102.78	-	-	88.5	27.53	14.03	27.28	100	294	A	H	
			2485.09	56.14	-17.86	74	41.83	27.5	14.08	27.27	100	294	P	H
			2483.5	47	-7	54	32.69	27.5	14.08	27.27	100	294	A	H
			2359.56	55.33	-18.67	74	40.98	27.68	13.96	27.29	400	170	P	V
			2389.52	45.8	-8.2	54	31.48	27.62	13.99	27.29	400	170	A	V
		*	2437	109.25	-	-	94.97	27.53	14.03	27.28	400	170	P	V
		*	2437	101.45	-	-	87.17	27.53	14.03	27.28	400	170	A	V
		2484.46	55.3	-18.7	74	40.99	27.5	14.08	27.27	400	170	P	V	
		2483.62	45.87	-8.13	54	31.56	27.5	14.08	27.27	400	170	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	110.14	-	-	95.86	27.5	14.06	27.28	253	301	P	H
	*	2462	101.81	-	-	87.53	27.5	14.06	27.28	253	301	A	H
		2484.36	59.7	-14.3	74	45.39	27.5	14.08	27.27	253	301	P	H
		2483.68	50.27	-3.73	54	35.96	27.5	14.08	27.27	253	301	A	H
													H
													H
	*	2462	111.45	-	-	97.17	27.5	14.06	27.28	243	279	P	V
	*	2462	103.12	-	-	88.84	27.5	14.06	27.28	243	279	A	V
		2483.52	60.48	-13.52	74	46.17	27.5	14.08	27.27	243	279	P	V
		2483.52	51.44	-2.56	54	37.13	27.5	14.08	27.27	243	279	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 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)	
802.11n HT20 CH 01 2412MHz		4824	38.5	-35.5	74	57.81	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.8	-35.2	74	58.11	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	38.55	-35.45	74	57.7	31.2	6.99	57.34	100	0	P	H	
		7311	44.47	-29.53	74	56.46	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	38.7	-35.3	74	57.85	31.2	6.99	57.34	100	0	P	V
			7311	44.28	-29.72	74	56.27	36.78	8.32	57.09	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	38.47	-35.53	74	57.4	31.3	7	57.23	100	0	P	H	
		7386	44.28	-29.72	74	56.59	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	39.39	-34.61	74	58.32	31.3	7	57.23	100	0	P	V
			7386	43.5	-30.5	74	55.81	36.56	8.33	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 802.11n HT40 (Band Edge @ 3m)**

WIFI Ant. 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)
802.11n HT40 CH 03 2422MHz		2389.94	59.07	-14.93	74	44.75	27.62	13.99	27.29	176	282	P	H
		2389.94	50.12	-3.88	54	35.8	27.62	13.99	27.29	176	282	A	H
	*	2422	104.36	-	-	90.06	27.56	14.02	27.28	176	282	P	H
	*	2422	96.34	-	-	82.04	27.56	14.02	27.28	176	282	A	H
		2491.6	55.86	-18.14	74	41.55	27.5	14.08	27.27	176	282	P	H
		2484.11	45.96	-8.04	54	31.65	27.5	14.08	27.27	176	282	A	H
		2389.24	59.76	-14.24	74	45.44	27.62	13.99	27.29	222	253	P	V
		2389.94	52.23	-1.77	54	37.91	27.62	13.99	27.29	222	253	A	V
	*	2422	107.18	-	-	92.88	27.56	14.02	27.28	222	253	P	V
	*	2422	99.54	-	-	85.24	27.56	14.02	27.28	222	253	A	V
		2485.23	55.51	-18.49	74	41.2	27.5	14.08	27.27	222	253	P	V
		2484.53	46.49	-7.51	54	32.18	27.5	14.08	27.27	222	253	A	V
802.11n HT40 CH 06 2437MHz		2366	55.67	-18.33	74	41.32	27.67	13.97	27.29	236	66	P	H
		2389.94	46.57	-7.43	54	32.25	27.62	13.99	27.29	236	66	A	H
	*	2437	101.78	-	-	87.5	27.53	14.03	27.28	236	66	P	H
	*	2437	94.16	-	-	79.88	27.53	14.03	27.28	236	66	A	H
		2485.58	56.06	-17.94	74	41.75	27.5	14.08	27.27	236	66	P	H
		2484.25	46.16	-7.84	54	31.85	27.5	14.08	27.27	236	66	A	H
		2389.66	61.08	-12.92	74	46.76	27.62	13.99	27.29	100	265	P	V
		2389.94	50.5	-3.5	54	36.18	27.62	13.99	27.29	100	265	A	V
	*	2437	108.92	-	-	94.64	27.53	14.03	27.28	100	265	P	V
	*	2437	101.3	-	-	87.02	27.53	14.03	27.28	100	265	A	V
	2483.9	60.81	-13.19	74	46.5	27.5	14.08	27.27	100	265	P	V	
	2483.55	51.47	-2.53	54	37.16	27.5	14.08	27.27	100	265	A	V	



802.11n HT40 CH 09 2452MHz		2356.06	55.93	-18.07	74	41.57	27.69	13.96	27.29	178	63	P	H
		2348.08	45.26	-8.74	54	30.9	27.7	13.95	27.29	178	63	A	H
	*	2452	97.99	-	-	83.72	27.5	14.05	27.28	178	63	P	H
	*	2452	89.51	-	-	75.24	27.5	14.05	27.28	178	63	A	H
		2484.25	56.14	-17.86	74	41.83	27.5	14.08	27.27	178	63	P	H
		2484.25	46.69	-7.31	54	32.38	27.5	14.08	27.27	178	63	A	H
		2334.36	55.29	-18.71	74	40.92	27.73	13.94	27.3	100	265	P	V
		2389.8	45.35	-8.65	54	31.03	27.62	13.99	27.29	100	265	A	V
	*	2452	106.01	-	-	91.74	27.5	14.05	27.28	100	265	P	V
	*	2452	97.71	-	-	83.44	27.5	14.05	27.28	100	265	A	V
		2483.83	61.31	-12.69	74	47	27.5	14.08	27.27	100	265	P	V
		2483.5	52.23	-1.77	54	37.92	27.5	14.08	27.27	100	265	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)**

WIFI Ant. 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)
802.11n HT40 CH 03 2422MHz		4844	38.44	-35.56	74	57.67	31.19	6.99	57.41	100	0	P	H
		7266	44.82	-29.18	74	56.72	36.8	8.32	57.02	100	0	P	H
													H
													H
		4844	38.14	-35.86	74	57.37	31.19	6.99	57.41	100	0	P	V
		7266	44.22	-29.78	74	56.12	36.8	8.32	57.02	100	0	P	V
802.11n HT40 CH 06 2437MHz		4874	39.84	-34.16	74	58.99	31.2	6.99	57.34	100	0	P	H
		7311	43.81	-30.19	74	55.8	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	38.89	-35.11	74	58.04	31.2	6.99	57.34	100	0	P	V
		7311	43.9	-30.1	74	55.89	36.78	8.32	57.09	100	0	P	V
802.11n HT40 CH 09 2452MHz		4904	38.54	-35.46	74	57.6	31.22	7	57.28	100	0	P	H
		7356	44.18	-29.82	74	56.32	36.68	8.33	57.15	100	0	P	H
													H
													H
		4904	38.2	-35.8	74	57.26	31.22	7	57.28	100	0	P	V
		7356	44.7	-29.3	74	56.84	36.68	8.33	57.15	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT40 LF		107.6	22.74	-20.76	43.5	37.1	16.9	0.87	32.13	-	-	P	H	
		117.3	23.05	-20.45	43.5	36.81	17.43	0.95	32.14	-	-	P	H	
		304.51	26.4	-19.6	46	37.56	19.32	1.49	31.97	-	-	P	H	
		473.29	28.56	-17.44	46	35.45	23.52	1.87	32.28	-	-	P	H	
		762.35	29.22	-16.78	46	30.67	28.01	2.37	31.83	-	-	P	H	
		943.74	32.62	-13.38	46	30.85	30.17	2.68	31.08	100	0	P	H	
														H
														H
														H
														H
														H
														H
			77.53	20.3	-19.7	40	38.47	13.26	0.77	32.2	-	-	P	V
			93.05	23.6	-19.9	43.5	39.64	15.29	0.81	32.14	-	-	P	V
			115.36	21.7	-21.8	43.5	35.51	17.39	0.94	32.14	-	-	P	V
			122.15	28.89	-14.61	43.5	42.47	17.59	0.98	32.15	-	-	P	V
			192.96	21.14	-22.36	43.5	37.28	14.91	1.25	32.3	-	-	P	V
			958.29	32.53	-13.47	46	30.11	30.6	2.72	30.9	100	0	P	V
													V	
													V	
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



2.4GHz 2400~2483.5MHz
WIFI 802.11b (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)	
802.11b CH 01 2412MHz		2354.625	55.9	-18.1	74	41.54	27.69	13.96	27.29	112	256	P	H	
		2389.905	46.11	-7.89	54	31.79	27.62	13.99	27.29	112	256	A	H	
	*	2412	114.88	-	-	100.57	27.58	14.01	27.28	112	256	P	H	
	*	2412	111.85	-	-	97.54	27.58	14.01	27.28	112	256	A	H	
													H	
														H
			2346.54	56.13	-17.87	74	41.76	27.71	13.95	27.29	361	178	P	V
			2389.275	45.25	-8.75	54	30.93	27.62	13.99	27.29	361	178	A	V
	*		2412	109.05	-	-	94.74	27.58	14.01	27.28	361	178	P	V
	*		2412	105.86	-	-	91.55	27.58	14.01	27.28	361	178	A	V
														V
														V
802.11b CH 06 2437MHz		2348.22	55.52	-18.48	74	41.16	27.7	13.95	27.29	111	261	P	H	
		2389.94	44.72	-9.28	54	30.4	27.62	13.99	27.29	111	261	A	H	
	*	2437	113.43	-	-	99.15	27.53	14.03	27.28	111	261	P	H	
	*	2437	110.5	-	-	96.22	27.53	14.03	27.28	111	261	A	H	
			2488.1	55.18	-18.82	74	40.87	27.5	14.08	27.27	111	261	P	H
			2483.9	45.28	-8.72	54	30.97	27.5	14.08	27.27	111	261	A	H
			2383.92	56.23	-17.77	74	41.91	27.63	13.98	27.29	348	182	P	V
			2389.94	44.52	-9.48	54	30.2	27.62	13.99	27.29	348	182	A	V
	*		2437	107.78	-	-	93.5	27.53	14.03	27.28	348	182	P	V
	*		2437	104.6	-	-	90.32	27.53	14.03	27.28	348	182	A	V
			2489.92	55.38	-18.62	74	41.07	27.5	14.08	27.27	348	182	P	V
			2483.83	44.63	-9.37	54	30.32	27.5	14.08	27.27	348	182	A	V



802.11b CH 11 2462MHz	*	2462	112.93	-	-	98.65	27.5	14.06	27.28	105	258	P	H
	*	2462	109.94	-	-	95.66	27.5	14.06	27.28	105	258	A	H
		2483.76	58.46	-15.54	74	44.15	27.5	14.08	27.27	105	258	P	H
		2483.52	51.87	-2.13	54	37.56	27.5	14.08	27.27	105	258	A	H
													H
													H
	*	2462	113.35	-	-	99.07	27.5	14.06	27.28	387	150	P	V
	*	2462	110.06	-	-	95.78	27.5	14.06	27.28	387	150	A	V
		2486.8	57.59	-16.41	74	43.28	27.5	14.08	27.27	387	150	P	V
		2483.52	50.46	-3.54	54	36.15	27.5	14.08	27.27	387	150	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+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)	
802.11b CH 01 2412MHz		4824	41.93	-32.07	74	61.24	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	43.35	-30.65	74	62.66	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	41.98	-32.02	74	61.13	31.2	6.99	57.34	100	0	P	H	
		7311	45.2	-28.8	74	57.19	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	40.92	-33.08	74	60.07	31.2	6.99	57.34	100	0	P	V
			7311	44.16	-29.84	74	56.15	36.78	8.32	57.09	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	41.13	-32.87	74	60.06	31.3	7	57.23	100	0	P	H	
		7386	44.37	-29.63	74	56.68	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	40	-34	74	58.93	31.3	7	57.23	100	0	P	V
			7386	44.99	-29.01	74	57.3	36.56	8.33	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+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)	
802.11g CH 01 2412MHz		2390	60.78	-13.22	74	46.46	27.62	13.99	27.29	106	252	P	H	
		2390	51.83	-2.17	54	37.51	27.62	13.99	27.29	106	252	A	H	
	*	2412	112.14	-	-	97.83	27.58	14.01	27.28	106	252	P	H	
	*	2412	104.56	-	-	90.25	27.58	14.01	27.28	106	252	A	H	
													H	
													H	
			2358.615	55.44	-18.56	74	41.09	27.68	13.96	27.29	400	150	P	V
			2389.38	45.99	-8.01	54	31.67	27.62	13.99	27.29	400	150	A	V
	*		2412	107.19	-	-	92.88	27.58	14.01	27.28	400	150	P	V
	*		2412	100.12	-	-	85.81	27.58	14.01	27.28	400	150	A	V
													V	
													V	
802.11g CH 06 2437MHz		2321.9	55.25	-18.75	74	40.86	27.76	13.93	27.3	116	228	P	H	
		2389.94	45.89	-8.11	54	31.57	27.62	13.99	27.29	116	228	A	H	
	*	2437	113.22	-	-	98.94	27.53	14.03	27.28	116	228	P	H	
	*	2437	105.85	-	-	91.57	27.53	14.03	27.28	116	228	A	H	
			2486.14	55.95	-18.05	74	41.64	27.5	14.08	27.27	116	228	P	H
			2483.55	47.07	-6.93	54	32.76	27.5	14.08	27.27	116	228	A	H
			2387.98	56.03	-17.97	74	41.71	27.62	13.99	27.29	396	151	P	V
			2389.52	45.35	-8.65	54	31.03	27.62	13.99	27.29	396	151	A	V
	*		2437	110.37	-	-	96.09	27.53	14.03	27.28	396	151	P	V
	*		2437	103.06	-	-	88.78	27.53	14.03	27.28	396	151	A	V
			2496.22	55.46	-18.54	74	41.14	27.5	14.09	27.27	396	151	P	V
			2484.18	45.7	-8.3	54	31.39	27.5	14.08	27.27	396	151	A	V



802.11g CH 11 2462MHz	*	2462	112.72	-	-	98.44	27.5	14.06	27.28	188	250	P	H
	*	2462	105.78	-	-	91.5	27.5	14.06	27.28	188	250	A	H
		2484.28	61.13	-12.87	74	46.82	27.5	14.08	27.27	188	250	P	H
		2484.44	51.69	-2.31	54	37.38	27.5	14.08	27.27	188	250	A	H
													H
													H
	*	2462	111.28	-	-	97	27.5	14.06	27.28	386	150	P	V
	*	2462	103.9	-	-	89.62	27.5	14.06	27.28	386	150	A	V
		2483.72	61.46	-12.54	74	47.15	27.5	14.08	27.27	386	150	P	V
		2483.6	52.06	-1.94	54	37.75	27.5	14.08	27.27	386	150	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+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)	
802.11g CH 01 2412MHz		4824	38.44	-35.56	74	57.75	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.98	-35.02	74	58.29	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	38.72	-35.28	74	57.87	31.2	6.99	57.34	100	0	P	H	
		7311	44.83	-29.17	74	56.82	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	38.49	-35.51	74	57.64	31.2	6.99	57.34	100	0	P	V
			7311	46.19	-27.81	74	58.18	36.78	8.32	57.09	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	38.44	-35.56	74	57.37	31.3	7	57.23	100	0	P	H	
		7386	43.9	-30.1	74	56.21	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	39.42	-34.58	74	58.35	31.3	7	57.23	100	0	P	V
			7386	43.96	-30.04	74	56.27	36.56	8.33	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 802.11n HT20 (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)	
802.11n HT20 CH 01 2412MHz		2390	61.78	-12.22	74	47.46	27.62	13.99	27.29	106	256	P	H	
		2390	52.62	-1.38	54	38.3	27.62	13.99	27.29	106	256	A	H	
	*	2412	111.47	-	-	97.16	27.58	14.01	27.28	106	256	P	H	
	*	2412	103.55	-	-	89.24	27.58	14.01	27.28	106	256	A	H	
													H	
														H
			2389.695	57.92	-16.08	74	43.6	27.62	13.99	27.29	400	156	P	V
			2390	48.79	-5.21	54	34.47	27.62	13.99	27.29	400	156	A	V
		*	2412	107.86	-	-	93.55	27.58	14.01	27.28	400	156	P	V
		*	2412	100.27	-	-	85.96	27.58	14.01	27.28	400	156	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2355.78	55.8	-18.2	74	41.44	27.69	13.96	27.29	141	252	P	H	
		2389.8	46.03	-7.97	54	31.71	27.62	13.99	27.29	141	252	A	H	
	*	2437	113.42	-	-	99.14	27.53	14.03	27.28	141	252	P	H	
	*	2437	105.41	-	-	91.13	27.53	14.03	27.28	141	252	A	H	
			2484.6	56.76	-17.24	74	42.45	27.5	14.08	27.27	141	252	P	H
			2483.62	46.88	-7.12	54	32.57	27.5	14.08	27.27	141	252	A	H
			2362.5	55.48	-18.52	74	41.13	27.68	13.96	27.29	395	149	P	V
			2389.94	45.25	-8.75	54	30.93	27.62	13.99	27.29	395	149	A	V
		*	2437	110.05	-	-	95.77	27.53	14.03	27.28	395	149	P	V
		*	2437	102.36	-	-	88.08	27.53	14.03	27.28	395	149	A	V
		2484.6	54.93	-19.07	74	40.62	27.5	14.08	27.27	395	149	P	V	
		2483.76	45.64	-8.36	54	31.33	27.5	14.08	27.27	395	149	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	112.33	-	-	98.05	27.5	14.06	27.28	106	227	P	H
	*	2462	104.83	-	-	90.55	27.5	14.06	27.28	106	227	A	H
		2483.52	61.33	-12.67	74	47.02	27.5	14.08	27.27	106	227	P	H
		2483.52	52.07	-1.93	54	37.76	27.5	14.08	27.27	106	227	A	H
													H
													H
	*	2462	110.32	-	-	96.04	27.5	14.06	27.28	386	143	P	V
	*	2462	102.62	-	-	88.34	27.5	14.06	27.28	386	143	A	V
		2484.32	57.83	-16.17	74	43.52	27.5	14.08	27.27	386	143	P	V
		2483.52	49.19	-4.81	54	34.88	27.5	14.08	27.27	386	143	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1+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)	
802.11n HT20 CH 01 2412MHz		4824	38.81	-35.19	74	58.12	31.15	6.99	57.45	100	0	P	H	
													H	
													H	
													H	
			4824	38.56	-35.44	74	57.87	31.15	6.99	57.45	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	38.88	-35.12	74	58.03	31.2	6.99	57.34	100	0	P	H	
		7311	43.55	-30.45	74	55.54	36.78	8.32	57.09	100	0	P	H	
													H	
													H	
			4874	38.85	-35.15	74	58	31.2	6.99	57.34	100	0	P	V
			7311	44.33	-29.67	74	56.32	36.78	8.32	57.09	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	38.9	-35.1	74	57.83	31.3	7	57.23	100	0	P	H	
		7386	44.47	-29.53	74	56.78	36.56	8.33	57.2	100	0	P	H	
													H	
													H	
			4924	38.5	-35.5	74	57.43	31.3	7	57.23	100	0	P	V
			7386	44.97	-29.03	74	57.28	36.56	8.33	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 802.11n HT40 (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)
802.11n HT40 CH 03 2422MHz		2389.94	60.81	-13.19	74	46.49	27.62	13.99	27.29	109	255	P	H
		2389.94	52.42	-1.58	54	38.1	27.62	13.99	27.29	109	255	A	H
	*	2422	108.35	-	-	94.05	27.56	14.02	27.28	109	255	P	H
	*	2422	100.08	-	-	85.78	27.56	14.02	27.28	109	255	A	H
		2483.62	57.14	-16.86	74	42.83	27.5	14.08	27.27	109	255	P	H
		2484.04	46.09	-7.91	54	31.78	27.5	14.08	27.27	109	255	A	H
		2389.94	56.93	-17.07	74	42.61	27.62	13.99	27.29	394	150	P	V
		2389.66	46.98	-7.02	54	32.66	27.62	13.99	27.29	394	150	A	V
	*	2422	104.07	-	-	89.77	27.56	14.02	27.28	394	150	P	V
	*	2422	96.24	-	-	81.94	27.56	14.02	27.28	394	150	A	V
		2493.63	55.18	-18.82	74	40.87	27.5	14.08	27.27	394	150	P	V
		2484.67	45.38	-8.62	54	31.07	27.5	14.08	27.27	394	150	A	V
802.11n HT40 CH 06 2437MHz		2387.42	57.5	-16.5	74	43.17	27.63	13.99	27.29	103	259	P	H
		2389.66	47.49	-6.51	54	33.17	27.62	13.99	27.29	103	259	A	H
	*	2437	112.7	-	-	98.42	27.53	14.03	27.28	103	259	P	H
	*	2437	104.26	-	-	89.98	27.53	14.03	27.28	103	259	A	H
		2483.5	62.06	-11.94	74	47.75	27.5	14.08	27.27	103	259	P	H
		2483.62	51.66	-2.34	54	37.35	27.5	14.08	27.27	103	259	A	H
		2389.8	60.14	-13.86	74	45.82	27.62	13.99	27.29	394	149	P	V
		2389.94	48.92	-5.08	54	34.6	27.62	13.99	27.29	394	149	A	V
	*	2437	108.77	-	-	94.49	27.53	14.03	27.28	394	149	P	V
	*	2437	100.35	-	-	86.07	27.53	14.03	27.28	394	149	A	V
		2485.3	56.78	-17.22	74	42.47	27.5	14.08	27.27	394	149	P	V
		2483.83	47.11	-6.89	54	32.8	27.5	14.08	27.27	394	149	A	V



802.11n HT40 CH 09 2452MHz		2344.86	56.35	-17.65	74	41.98	27.71	13.95	27.29	106	254	P	H
		2389.94	45.62	-8.38	54	31.3	27.62	13.99	27.29	106	254	A	H
	*	2452	107.88	-	-	93.61	27.5	14.05	27.28	106	254	P	H
	*	2452	99.98	-	-	85.71	27.5	14.05	27.28	106	254	A	H
		2484.39	62.36	-11.64	74	48.05	27.5	14.08	27.27	106	254	P	H
		2483.69	52.57	-1.43	54	38.26	27.5	14.08	27.27	106	254	A	H
		2330.3	55.64	-18.36	74	41.27	27.74	13.93	27.3	388	152	P	V
		2387.28	45.16	-8.84	54	30.83	27.63	13.99	27.29	388	152	A	V
	*	2452	106.87	-	-	92.6	27.5	14.05	27.28	388	152	P	V
	*	2452	98.4	-	-	84.13	27.5	14.05	27.28	388	152	A	V
		2484.25	57.26	-16.74	74	42.95	27.5	14.08	27.27	388	152	P	V
		2483.55	49.15	-4.85	54	34.84	27.5	14.08	27.27	388	152	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (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)
802.11n HT40 CH 03 2422MHz		4844	38.8	-35.2	74	58.03	31.19	6.99	57.41	100	0	P	H
		7266	45.05	-28.95	74	56.95	36.8	8.32	57.02	100	0	P	H
													H
													H
		4844	38.27	-35.73	74	57.5	31.19	6.99	57.41	100	0	P	V
		7266	44.32	-29.68	74	56.22	36.8	8.32	57.02	100	0	P	V
802.11n HT40 CH 06 2437MHz		4874	38.63	-35.37	74	57.78	31.2	6.99	57.34	100	0	P	H
		7311	44.1	-29.9	74	56.09	36.78	8.32	57.09	100	0	P	H
													H
													H
		4874	38.6	-35.4	74	57.75	31.2	6.99	57.34	100	0	P	V
		7311	44.54	-29.46	74	56.53	36.78	8.32	57.09	100	0	P	V
802.11n HT40 CH 09 2452MHz		4904	38.91	-35.09	74	57.97	31.22	7	57.28	100	0	P	H
		7356	45.54	-28.46	74	57.68	36.68	8.33	57.15	100	0	P	H
													H
													H
		4904	38.37	-35.63	74	57.43	31.22	7	57.28	100	0	P	V
		7356	44.25	-29.75	74	56.39	36.68	8.33	57.15	100	0	P	V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
2.4GHz 802.11n HT40 LF		106.63	22.92	-20.58	43.5	37.38	16.79	0.87	32.12	-	-	P	H	
		128.94	21.74	-21.76	43.5	35.35	17.57	0.99	32.17	-	-	P	H	
		314.21	25.93	-20.07	46	36.91	19.44	1.52	31.94	-	-	P	H	
		473.29	28.22	-17.78	46	35.11	23.52	1.87	32.28	-	-	P	H	
		875.84	30.89	-15.11	46	31.15	28.86	2.59	31.71	-	-	P	H	
		955.38	32.93	-13.07	46	30.47	30.69	2.7	30.93	100	0	P	H	
														H
														H
														H
														H
														H
														H
														H
			93.05	23.17	-20.33	43.5	39.21	15.29	0.81	32.14	-	-	P	V
			108.57	21.98	-21.52	43.5	36.28	16.95	0.88	32.13	-	-	P	V
			115.36	22.79	-20.71	43.5	36.6	17.39	0.94	32.14	-	-	P	V
			123.12	23.18	-20.32	43.5	36.69	17.67	0.98	32.16	-	-	P	V
			191.99	19.85	-23.65	43.5	36.03	14.87	1.24	32.29	-	-	P	V
			946.65	32.29	-13.71	46	30.3	30.34	2.69	31.04	100	0	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													



Note symbol

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



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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix C. Radiated Spurious Emission Plots

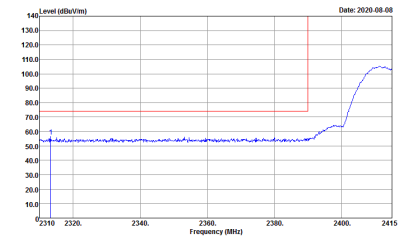
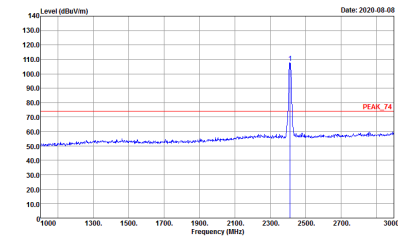
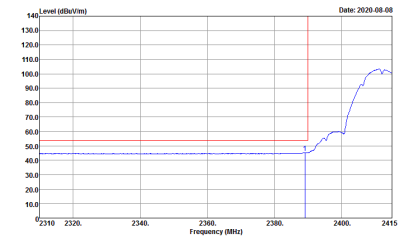
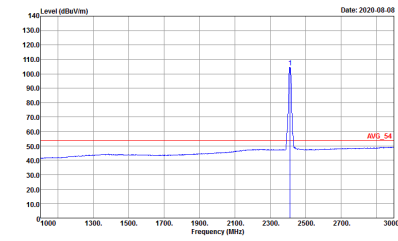
Test Engineer :	Daniel Lee, Jacky Hong and Wilson Wu	Temperature :	22.8~24.2°C
		Relative Humidity :	51.2~58.5%

Note symbol

-L	Low channel location
-R	High channel location



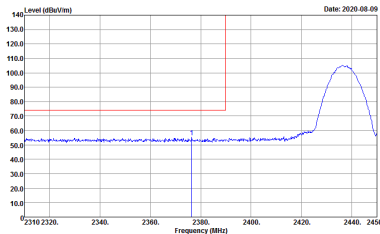
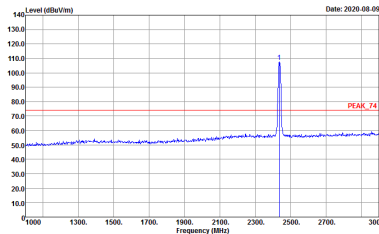
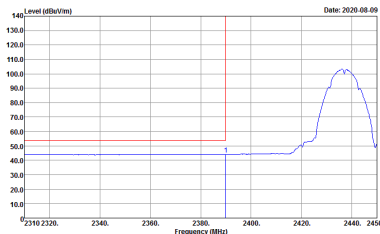
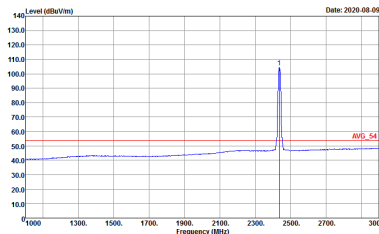
2.4GHz 2400~2483.5MHz
 WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH13-HY Condition : PEAK_SE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : PEAK_T4 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	<p>Site : 03CH13-HY Condition : AV6_S4 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>

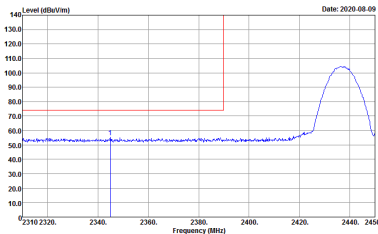
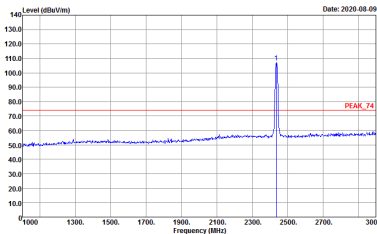
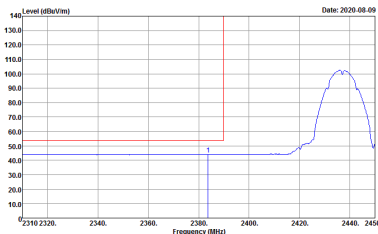
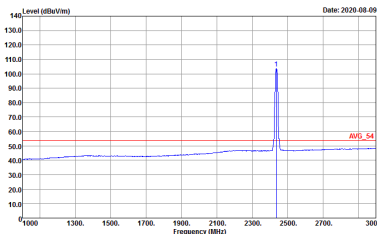


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2310 to 2450 MHz. A red vertical line marks the peak frequency.</p> <p>Site : 03CH13-HY Condition : PEAK_SE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the peak level, labeled 'PEAK_T4'.</p> <p>Site : 03CH13-HY Condition : PEAK_T4 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average signal for the horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2310 to 2450 MHz. A red vertical line marks the peak frequency.</p> <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average signal for the fundamental component. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 3000 MHz. A red horizontal line indicates the average level, labeled 'AVG_S4'.</p> <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

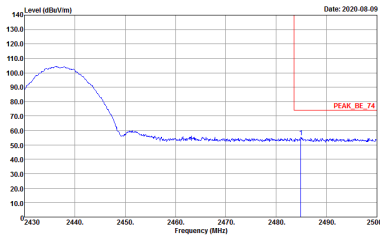
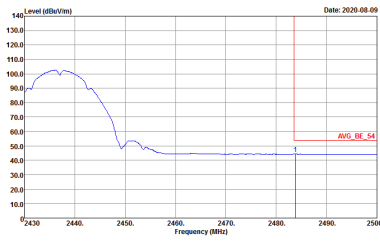


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>		<p>Left blank</p>
<p>Avg.</p>		<p>Left blank</p>

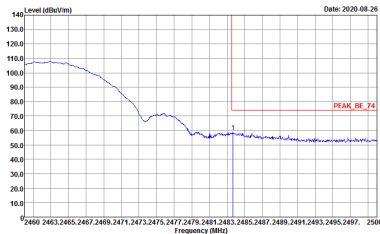
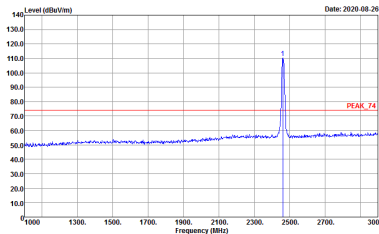
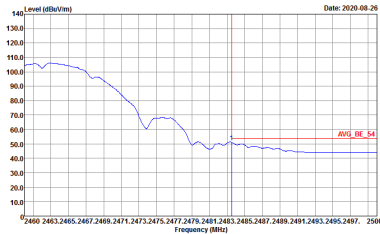
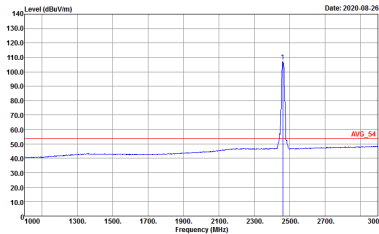


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal level around 60 dBu/m until approximately 2437 MHz, where it rises to a peak of about 105 dBu/m. The x-axis ranges from 2310 to 2450 MHz, and the y-axis ranges from 10.0 to 140.0 dBu/m.</p> <p>Site : 03CH13-HY Condition : PEAK_SE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal level around 60 dBu/m until approximately 2437 MHz, where it rises to a peak of about 115 dBu/m. The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 10.0 to 140.0 dBu/m.</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot for Avg Vertical. The plot shows a signal level around 60 dBu/m until approximately 2437 MHz, where it rises to a peak of about 105 dBu/m. The x-axis ranges from 2310 to 2450 MHz, and the y-axis ranges from 10.0 to 140.0 dBu/m.</p> <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot for Avg Fundamental. The plot shows a signal level around 60 dBu/m until approximately 2437 MHz, where it rises to a peak of about 115 dBu/m. The x-axis ranges from 1000 to 3000 MHz, and the y-axis ranges from 10.0 to 140.0 dBu/m.</p> <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000kHz VBW:0.010kHz SWT:Auto</p>

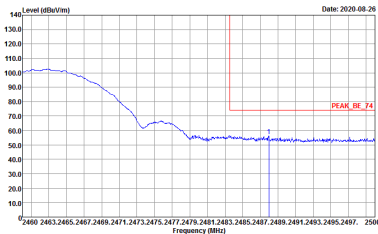
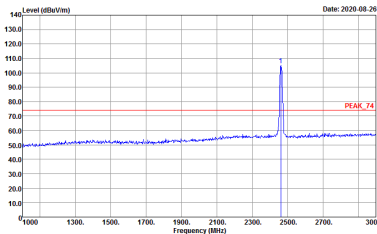
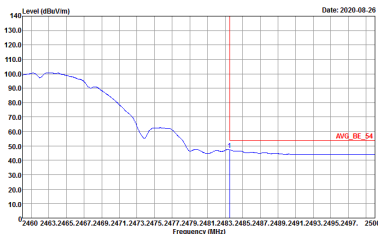
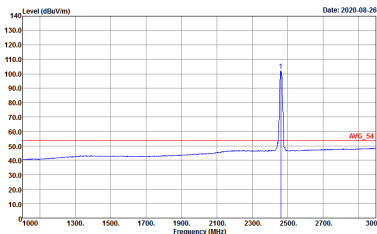


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	Left blank
Avg.	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	Left blank



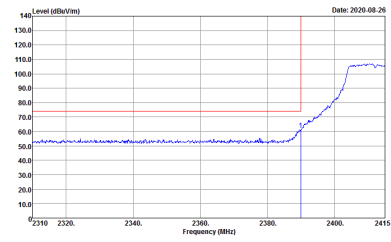
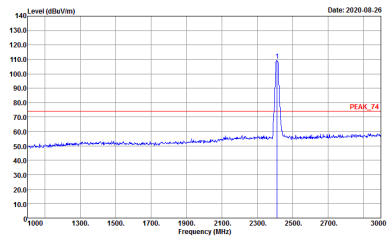
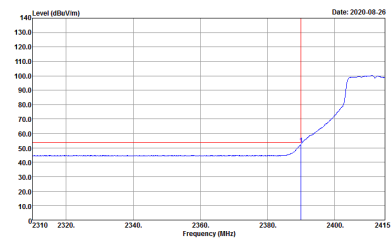
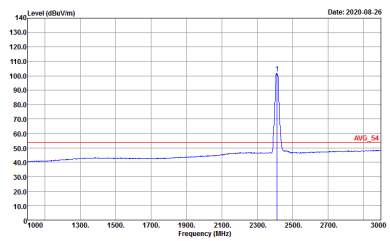
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red vertical line marks the peak at 2462 MHz, labeled 'PEAK_BE_74'.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 3000 MHz. A red vertical line marks the peak at 2462 MHz, labeled 'PEAK_74'.</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average signal for the horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 2500 MHz. A red vertical line marks the average level at 2462 MHz, labeled 'AVG_BE_54'.</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Level (dBuV/m) vs Frequency (MHz) plot showing the average signal for the fundamental component. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 2400 to 3000 MHz. A red vertical line marks the average level at 2462 MHz, labeled 'AVG_54'.</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



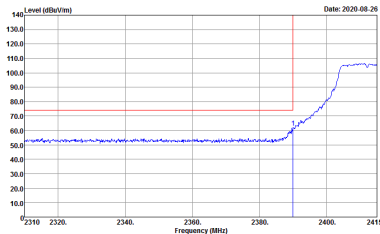
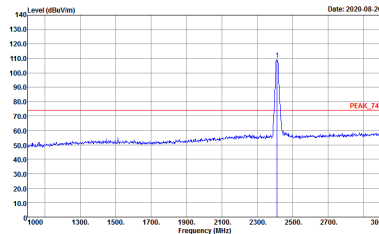
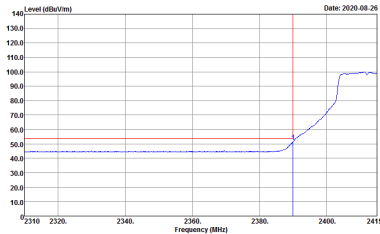
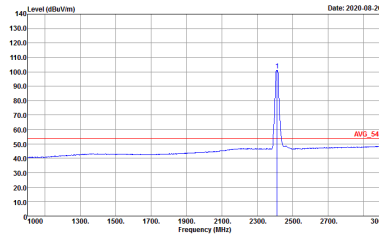
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



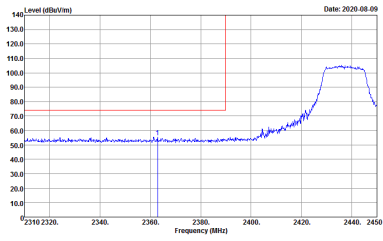
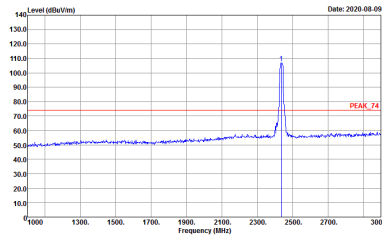
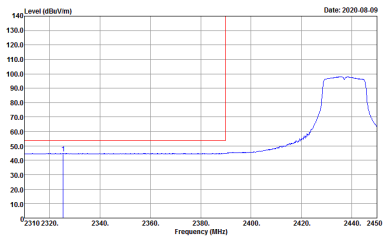
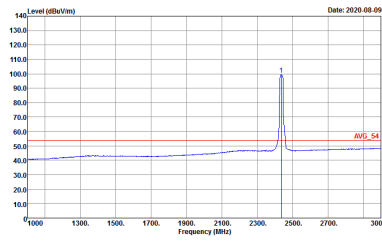
2.4GHz 2400~2483.5MHz
 WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p>

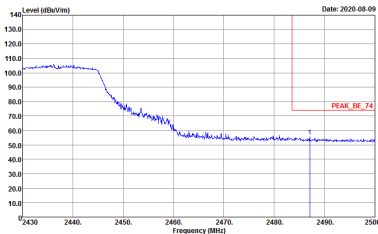
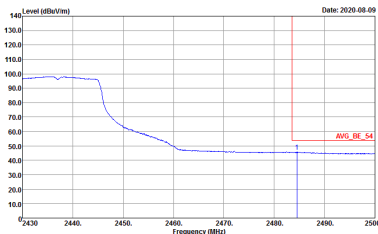


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_SE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

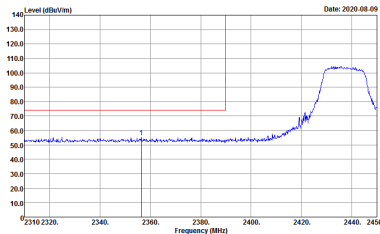
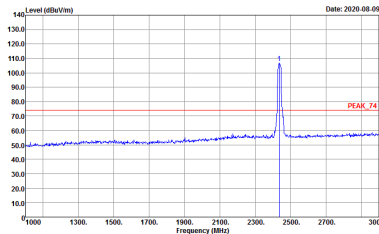
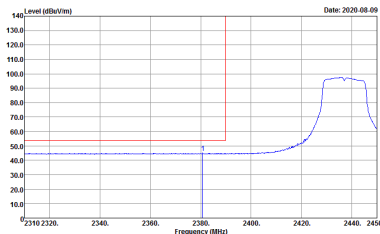
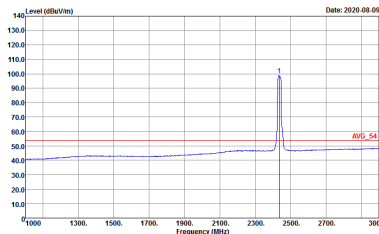


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_SE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 HORIZONTAL RBW:1000.000kHz VBW:1000kHz SWT:Auto</p>	<p>Left blank</p>

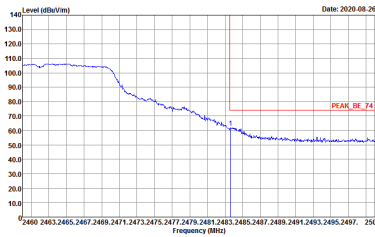
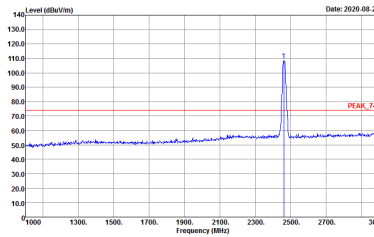
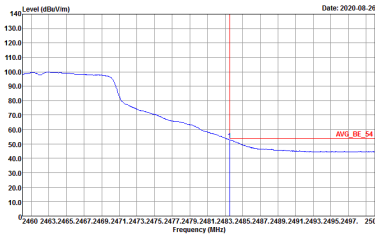
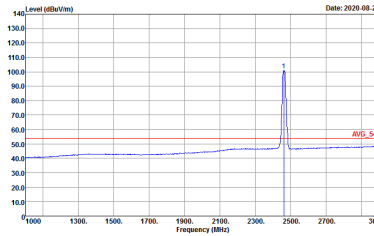


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 2310 to 2450 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing a peak at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average signal at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 2310 to 2450 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBu/m) vs Frequency (MHz) plot showing an average signal at approximately 2437 MHz. The y-axis ranges from 10.0 to 140.0 dBu/m, and the x-axis ranges from 1000 to 3000 MHz. A red vertical line marks the peak at 2437 MHz.</p> <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>

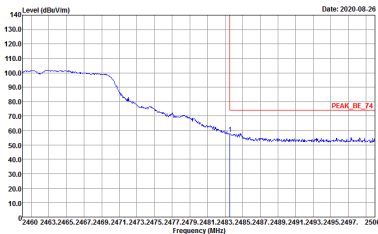
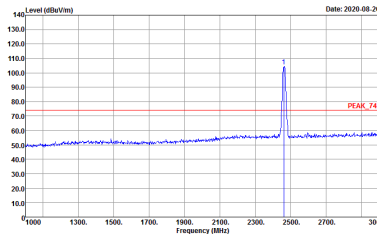
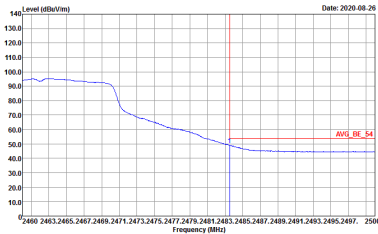
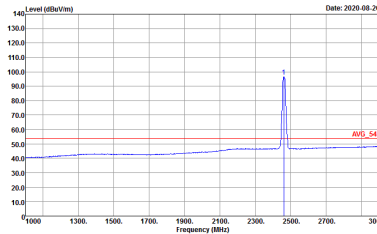


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Level (dBV/m) vs Frequency (MHz) plot showing a peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBV/m, and the x-axis ranges from 2400 to 2500 MHz. A red vertical line marks the peak at 2462 MHz, labeled 'PEAK_BE_74'.</p> <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Level (dBV/m) vs Frequency (MHz) plot showing a sharp peak at 2462 MHz. The y-axis ranges from 10.0 to 140.0 dBV/m, and the x-axis ranges from 2400 to 3000 MHz. A red vertical line marks the peak at 2462 MHz, labeled 'PEAK_74'.</p> <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Level (dBV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBV/m, and the x-axis ranges from 2400 to 2500 MHz. A red vertical line marks the average level at 2462 MHz, labeled 'AVG_BE_54'.</p> <p>Site : 03CH13-HY Condition : AVG_BE_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Level (dBV/m) vs Frequency (MHz) plot showing the average level. The y-axis ranges from 10.0 to 140.0 dBV/m, and the x-axis ranges from 2400 to 3000 MHz. A red vertical line marks the average level at 2462 MHz, labeled 'AVG_54'.</p> <p>Site : 03CH13-HY Condition : AVG_54 3m HORN_91200_1241 HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH13-HY Condition : PEAK_BE_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : PEAK_74 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	 <p>Site : 03CH13-HY Condition : AV6_BE_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>	 <p>Site : 03CH13-HY Condition : AV6_54 3m HORN_91200_1241 VERTICAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto</p>