



FCC RADIO TEST REPORT

FCC ID : 2AQIQ-6247
Equipment : HDMI Digital Media Receiver
Model Name : E9L29Y
Applicant : MX Processing LLC
309 Fellowship Road
East Gate Center, Suite 200
Mount Laurel, New Jersey 08054
Standard : FCC Part 15 Subpart C §15.247

The testing was completed on Jul. 25, 2018. We, SPORTON INTERNATIONAL INC., 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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: Jones Tsai

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



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Appendix A. Conducted Test Results

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Summary of Test Result

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

Reviewed by: Joseph Lin

Report Producer: Polly Tsai



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	HDMI Digital Media Receiver
Model Name	E9L29Y
FCC ID	2AQIQ-6247
EUT supports Radios application	WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE

1.2 Product Specification of Equipment Under Test

Standards-related Product Specification										
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz									
Maximum (Peak) Output Power to antenna	<p><Ant. 1> 802.11b : 20.93 dBm (0.1239 W) 802.11g : 24.52 dBm (0.2831 W) 802.11n HT20 : 24.22 dBm (0.2642 W)</p> <p><Ant. 2> 802.11b : 24.45 dBm (0.2786 W) 802.11g : 24.39 dBm (0.2748 W) 802.11n HT20 : 24.07 dBm (0.2553 W)</p> <p><Ant. 1+2> 802.11b : 24.48 dBm (0.2805 W) 802.11g : 27.17 dBm (0.5212 W) 802.11n HT20 : 27.18 dBm (0.5224 W)</p>									
99% Occupied Bandwidth	<p><Ant. 1> 802.11b : 13.65 MHz 802.11g : 20.85 MHz 802.11n HT20 : 18.65 MHz</p> <p><Ant. 2> 802.11b : 15.70 MHz 802.11g : 18.85 MHz 802.11n HT20 : 19.40 MHz</p> <p>MIMO<Ant. 1> 802.11b : 13.85 MHz 802.11g : 18.85 MHz 802.11n HT20 : 19.70 MHz</p> <p>MIMO<Ant. 2> 802.11b : 14.10 MHz 802.11g : 17.90 MHz 802.11n HT20 : 19.15 MHz</p>									
Antenna Type / Gain	Ant. 1 : Fixed Internal Antenna type with gain 3.21 dBi Ant. 2 : Fixed Internal Antenna type with gain 1.10 dBi									
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)									
Antenna Function for Transmitter	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 b</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 g/n MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 b	V	V	802.11 g/n MIMO	V	V
	Ant. 1	Ant. 2								
802.11 b	V	V								
802.11 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

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
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.	
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.	
	03CH12-HY	

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

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 v04
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

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

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		



2.2 Test Mode

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

Single Antenna

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

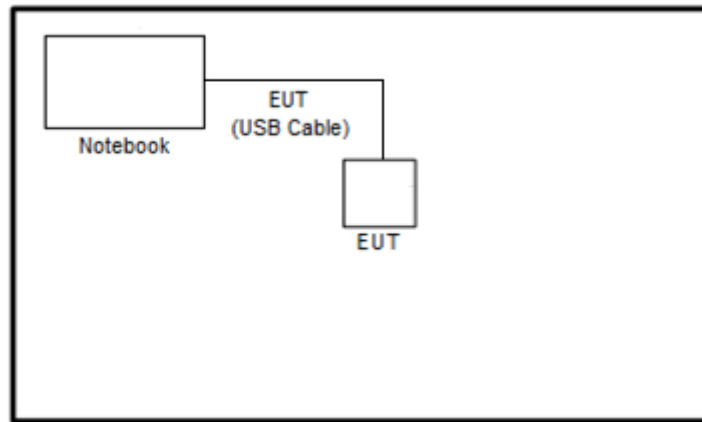
MIMO Antenna

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

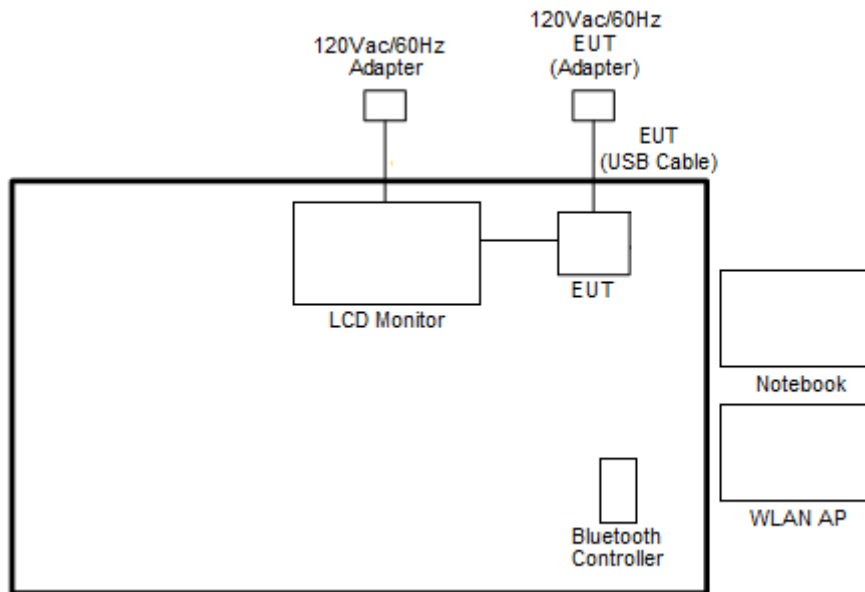
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth Link + 1080p 12bit + TV: Sharp LC-50UA6800T + TV Resolution: 1080p + USB Cable (Charging from Adapter) + HDMI Extender Cable
Remark: HDMI Extender Cable means media application transferred mode between EUT and external display.	

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	Lenovo	E335	N/A	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	LCD Monitor	Sharp	LC-50UA6800T	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "Compliance.exe" 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.

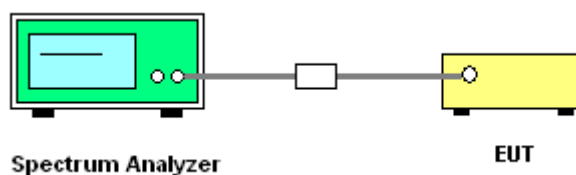
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

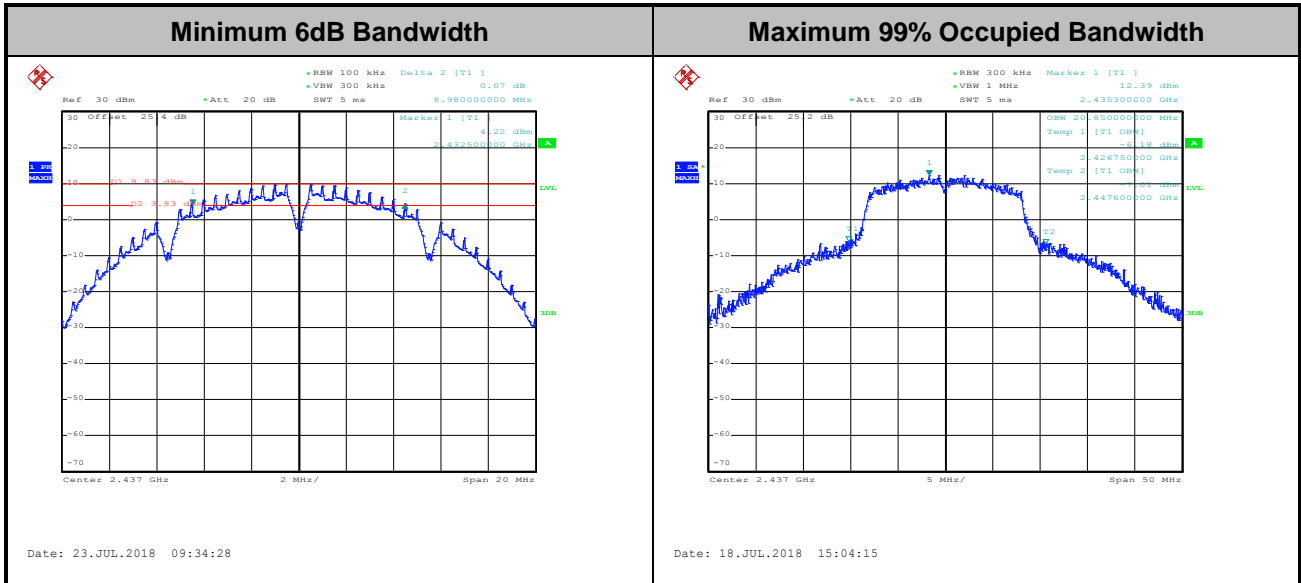
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

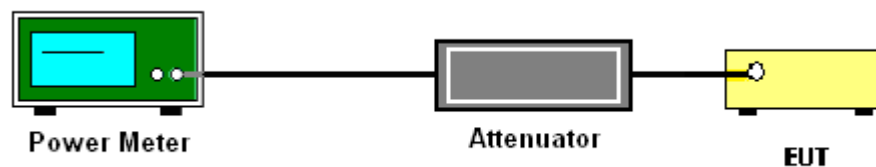
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
2. For Average Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.2.3.1 Method AVGPM.
3. 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.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.
6. 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 Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
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.

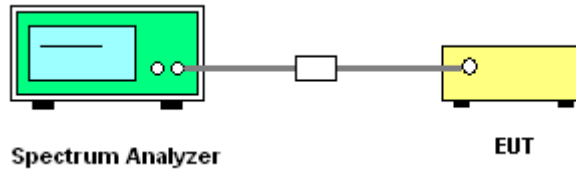
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

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.

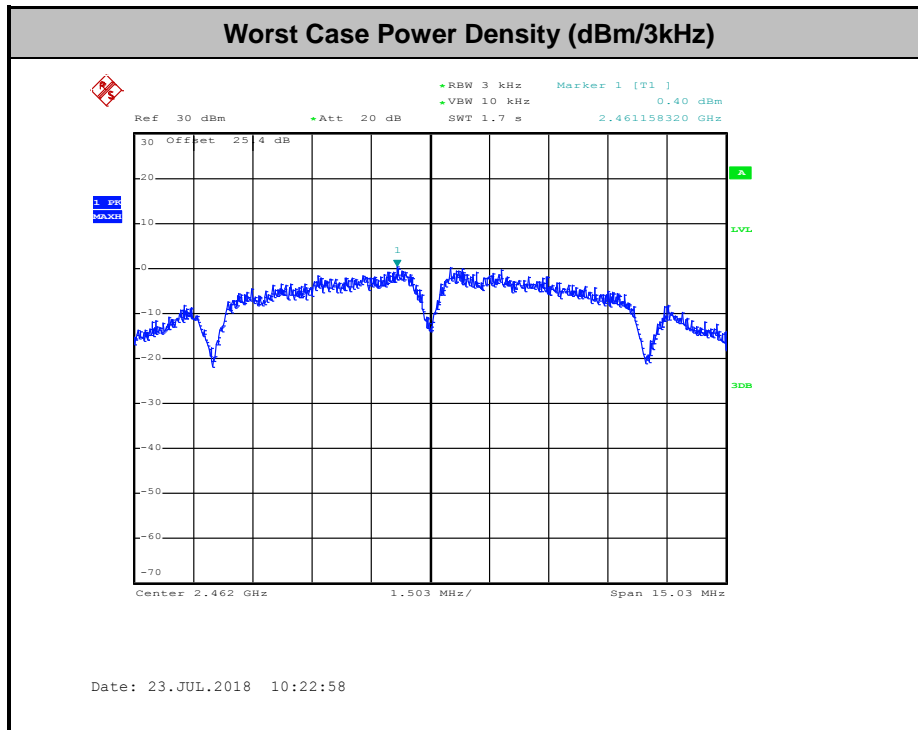
Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

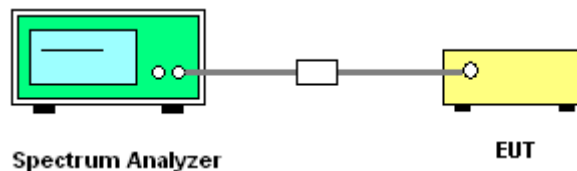
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
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



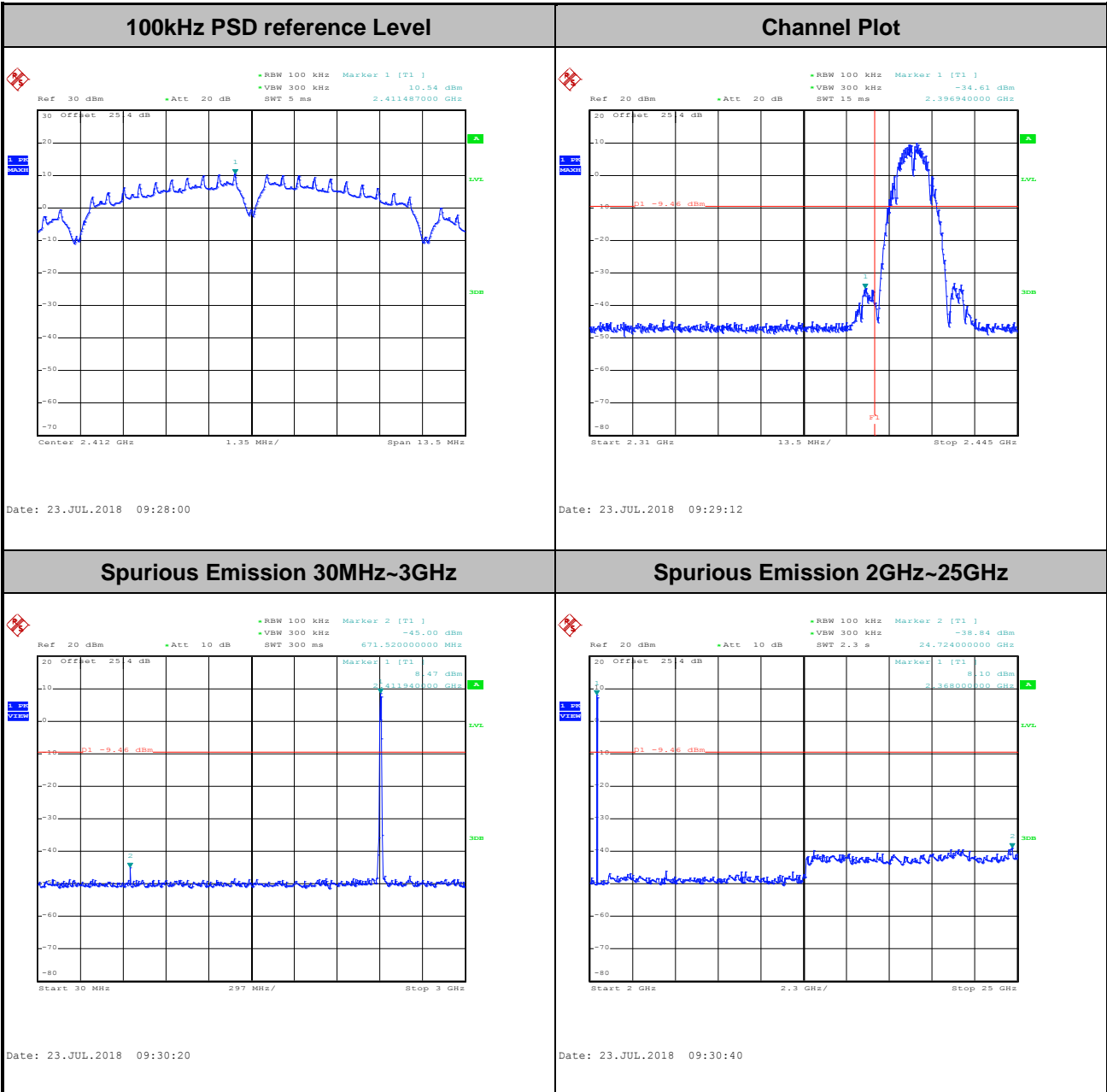


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

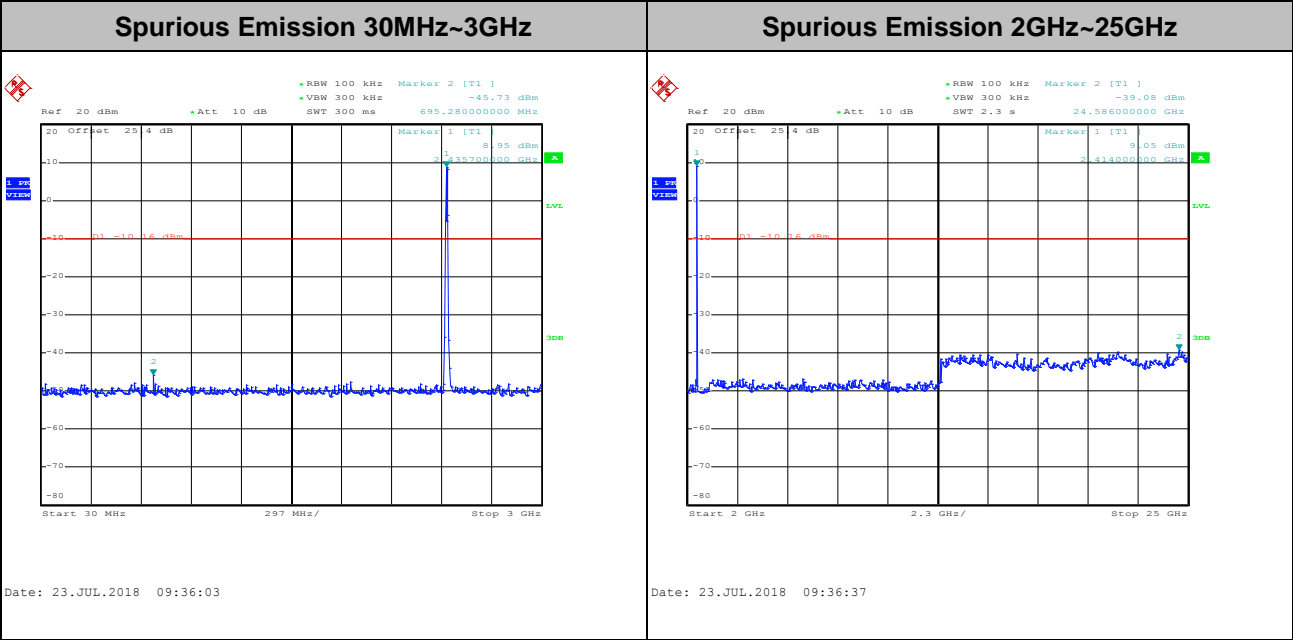
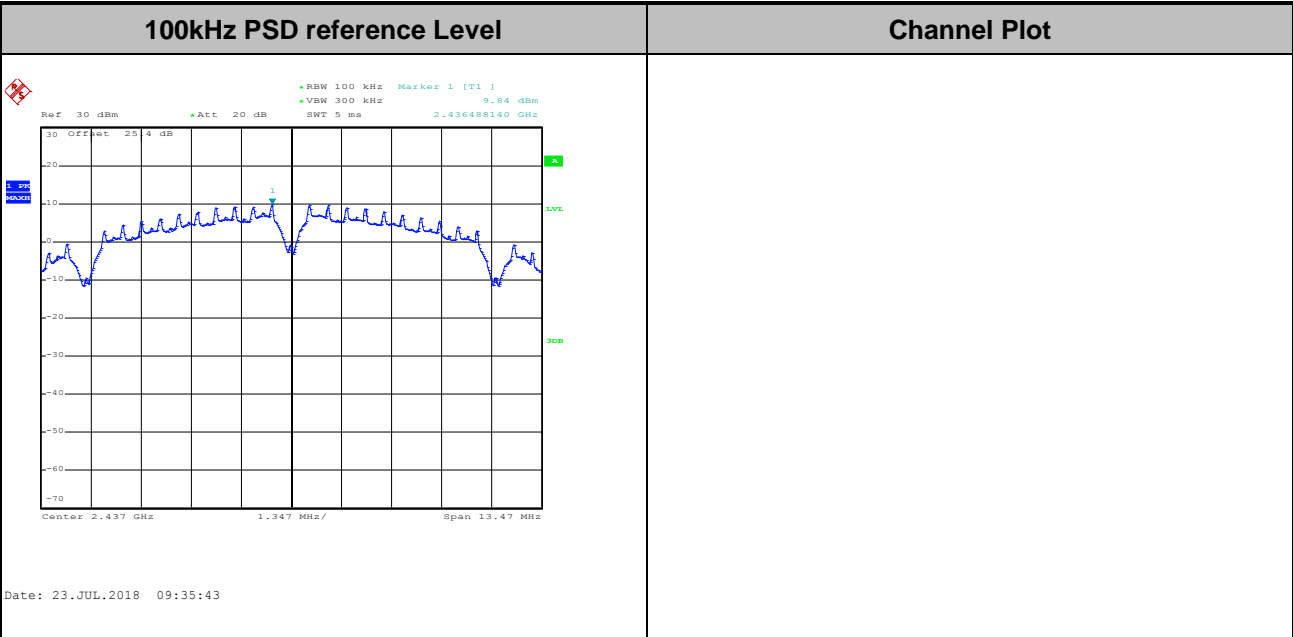
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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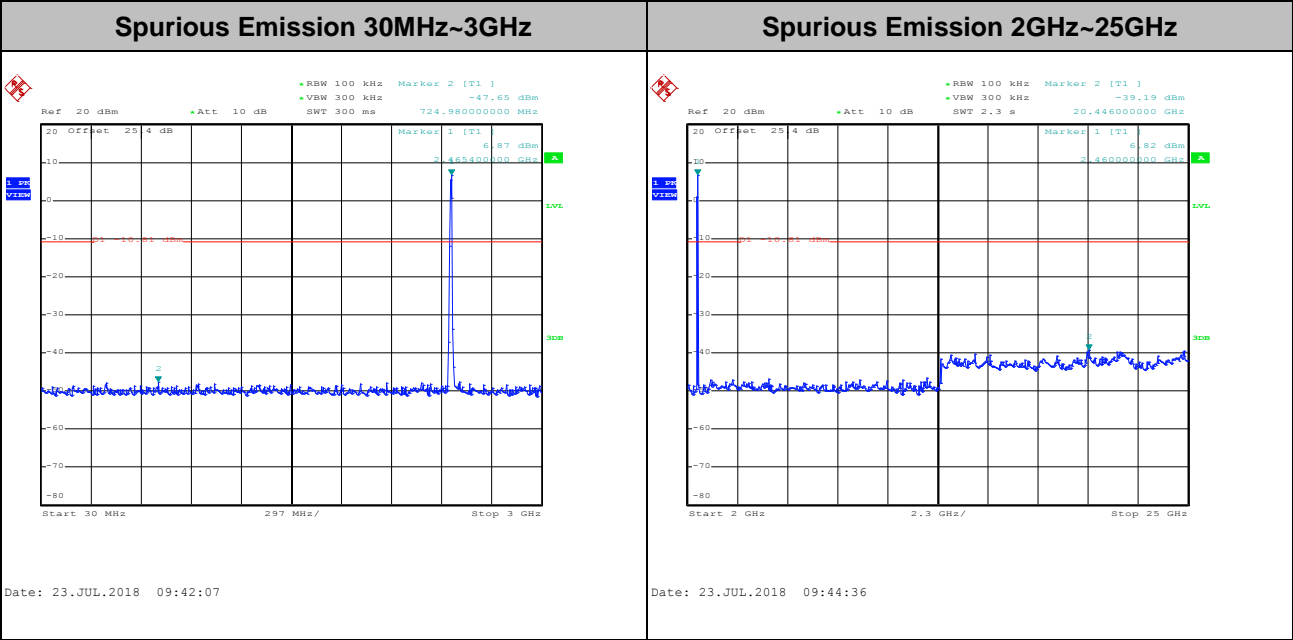
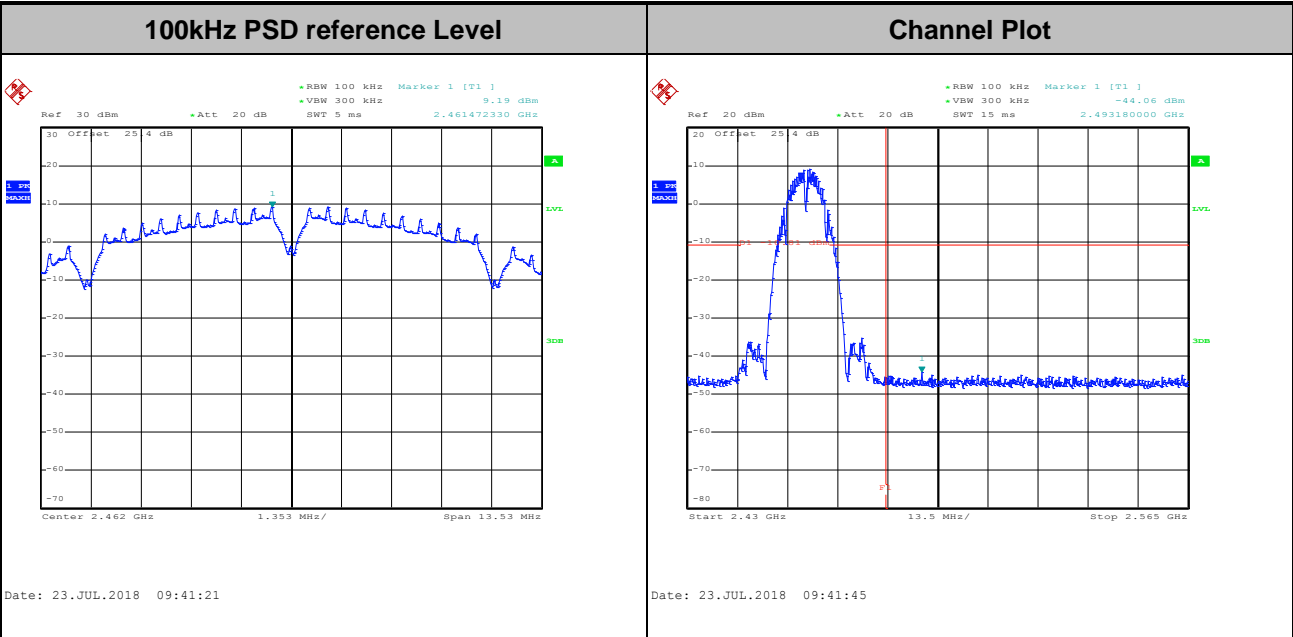


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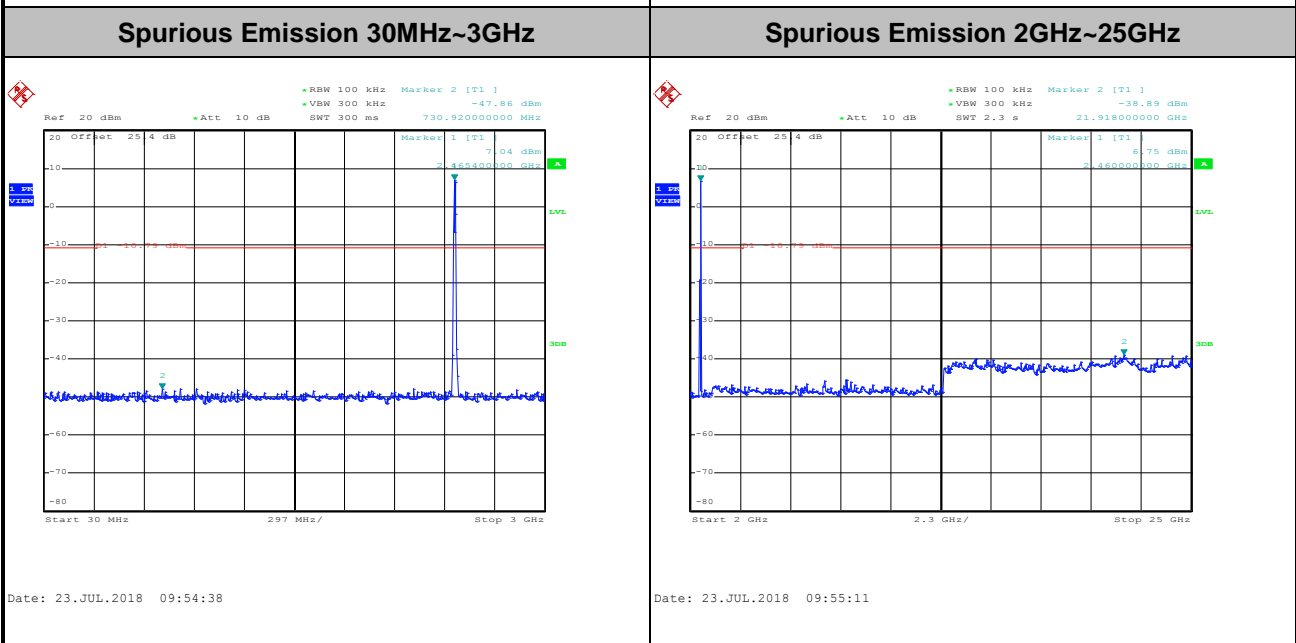
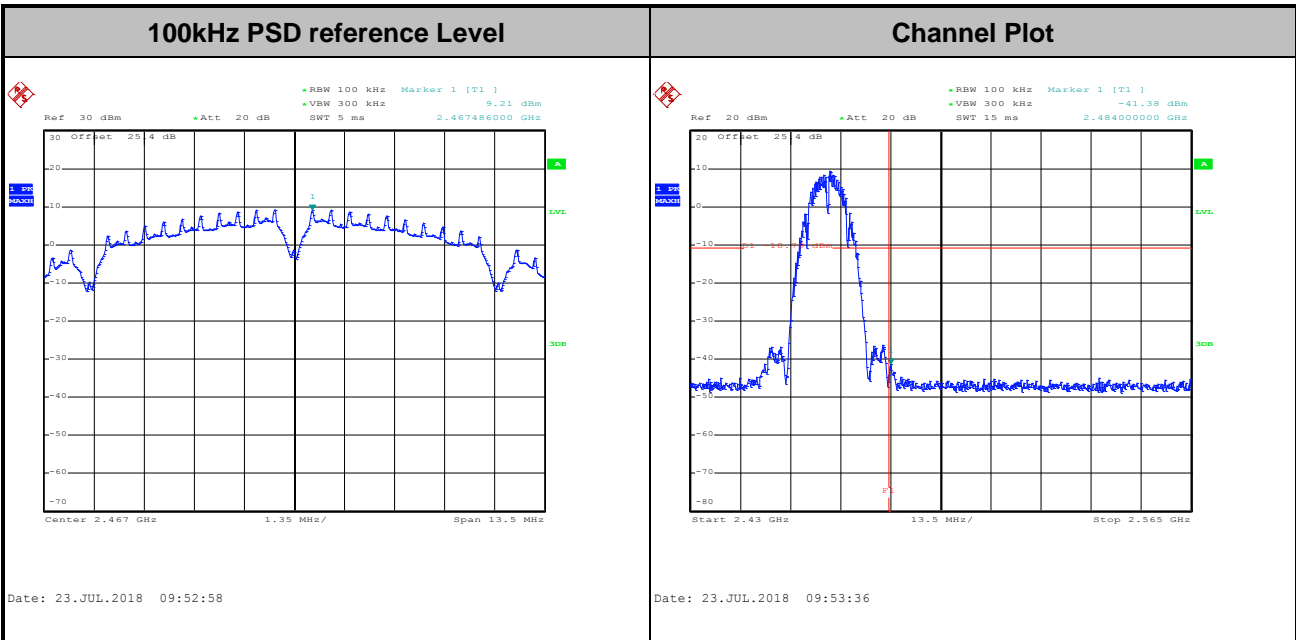


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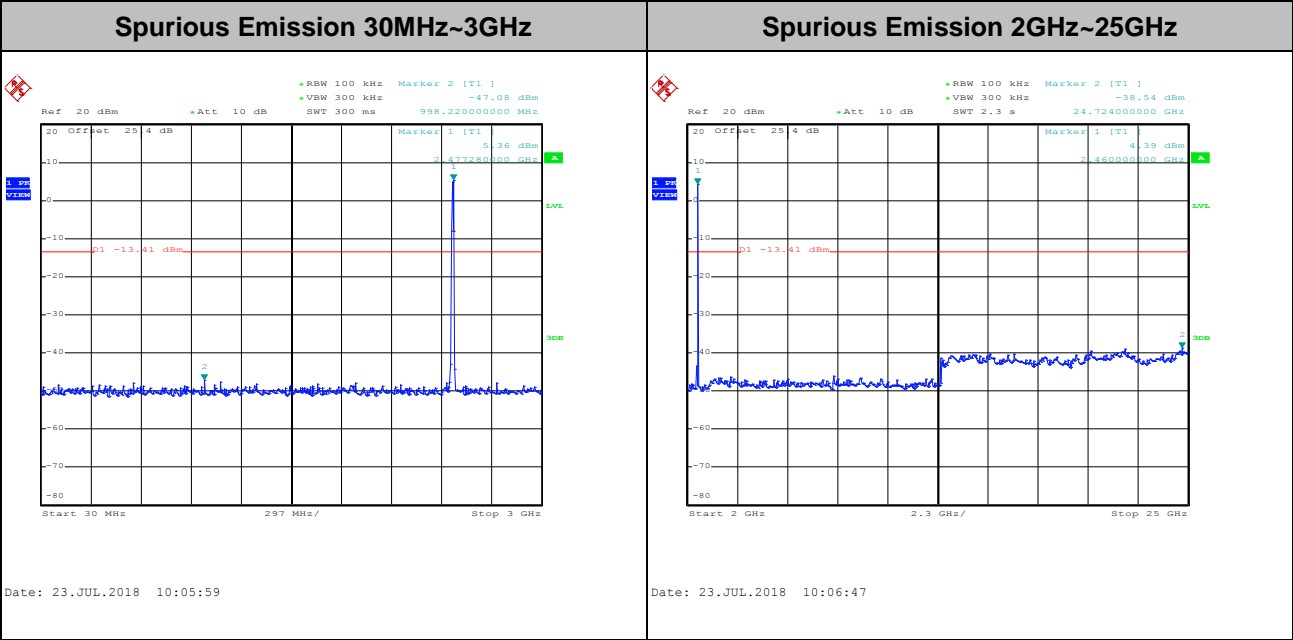
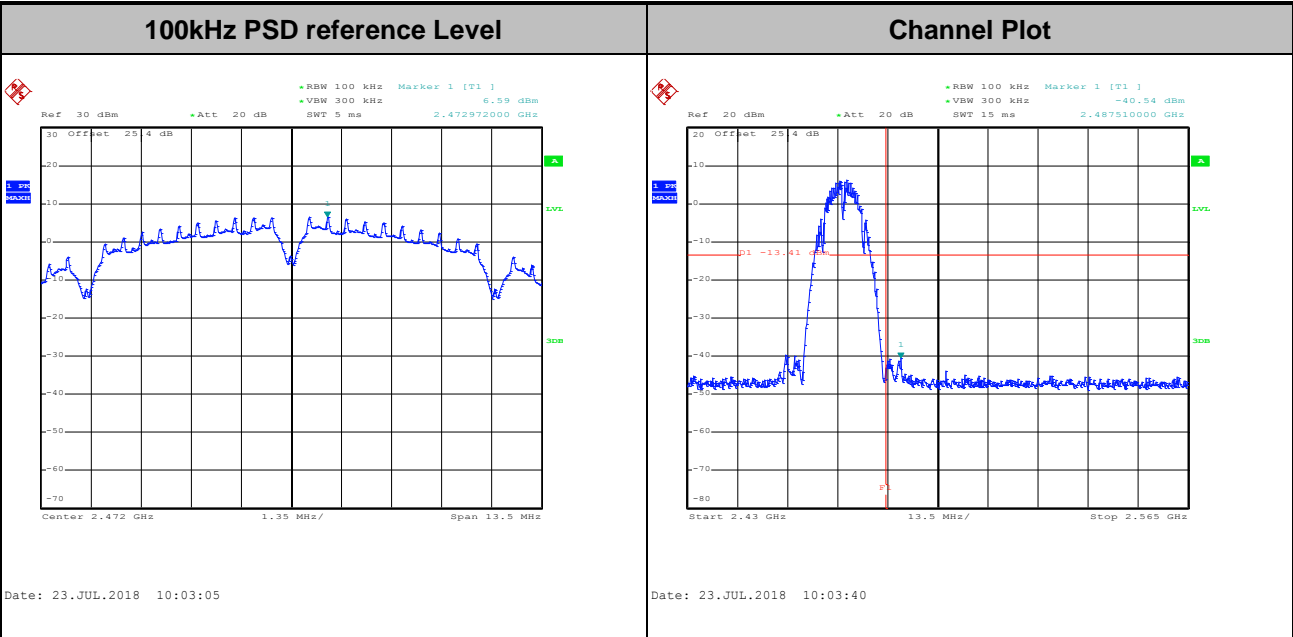


Test Mode :	802.11b	Test Channel :	12
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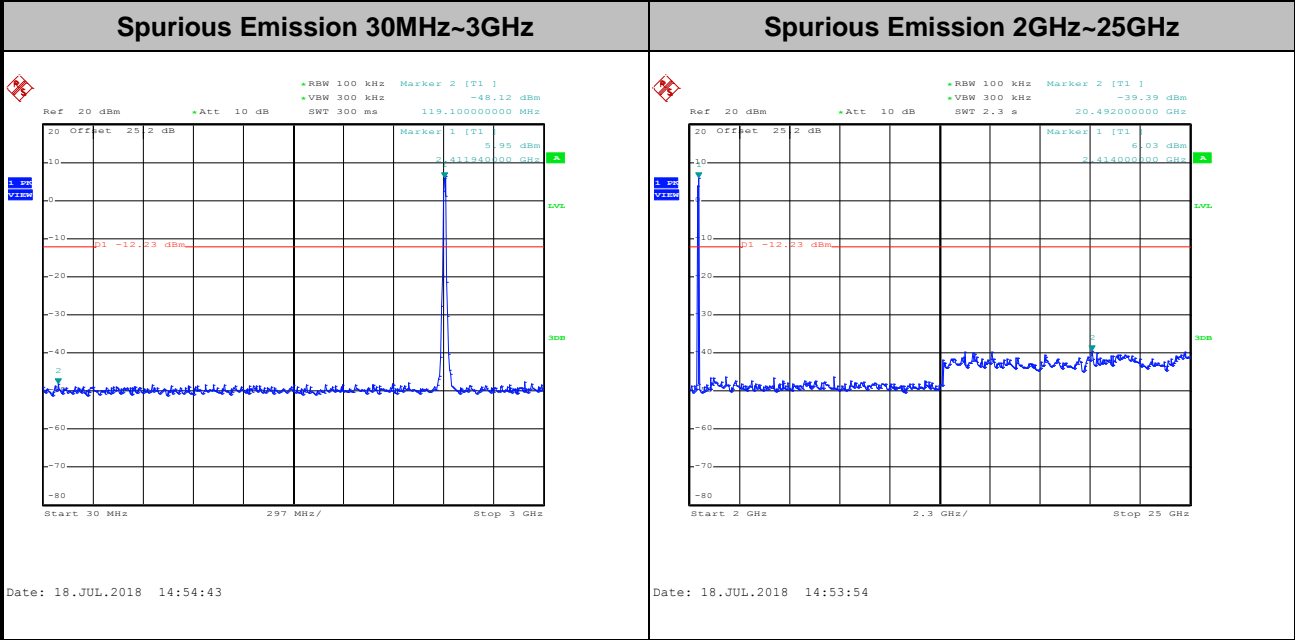
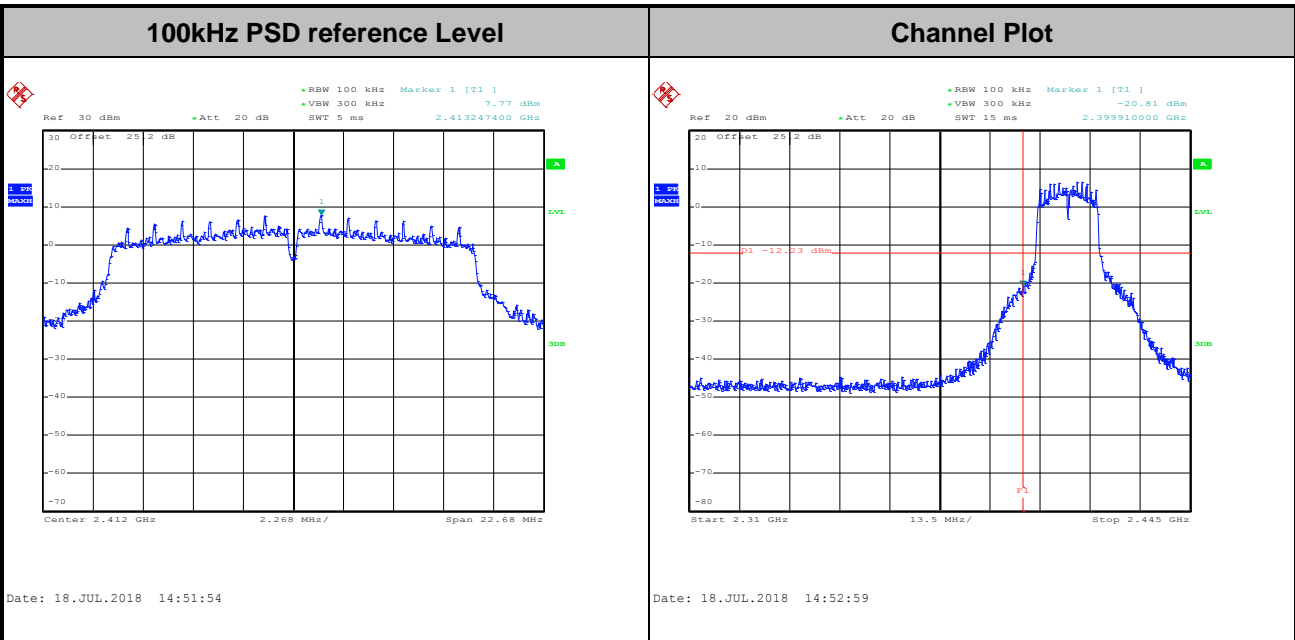


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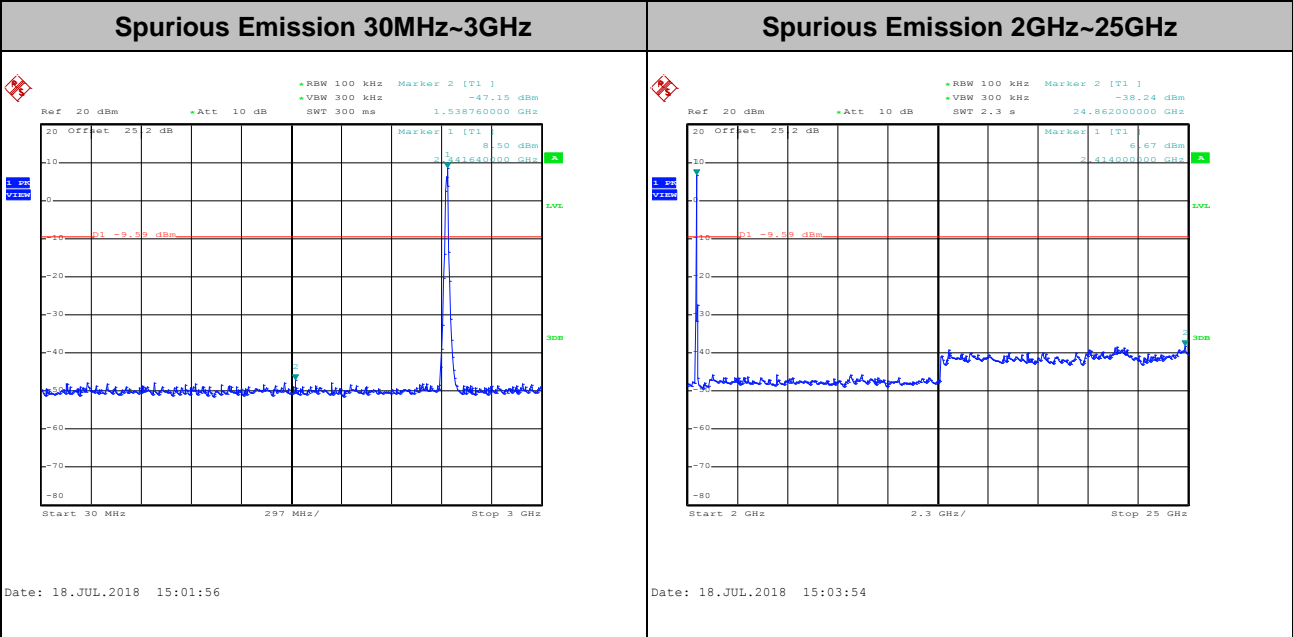
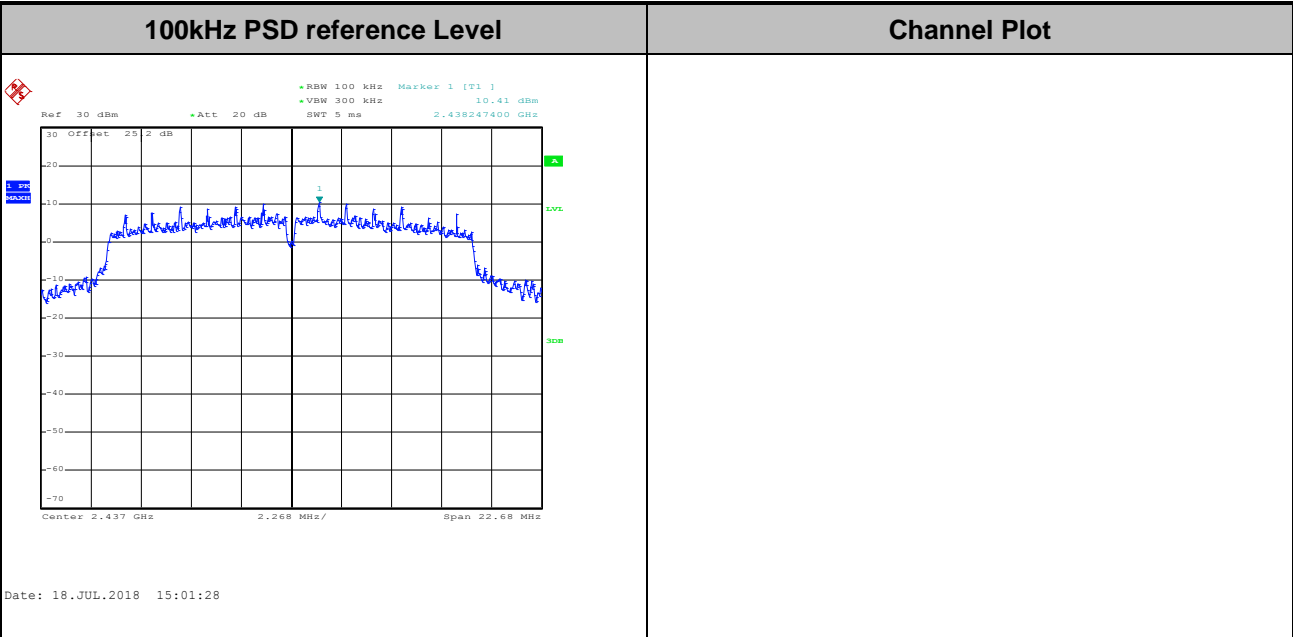


Test Mode :	802.11g	Test Channel :	01
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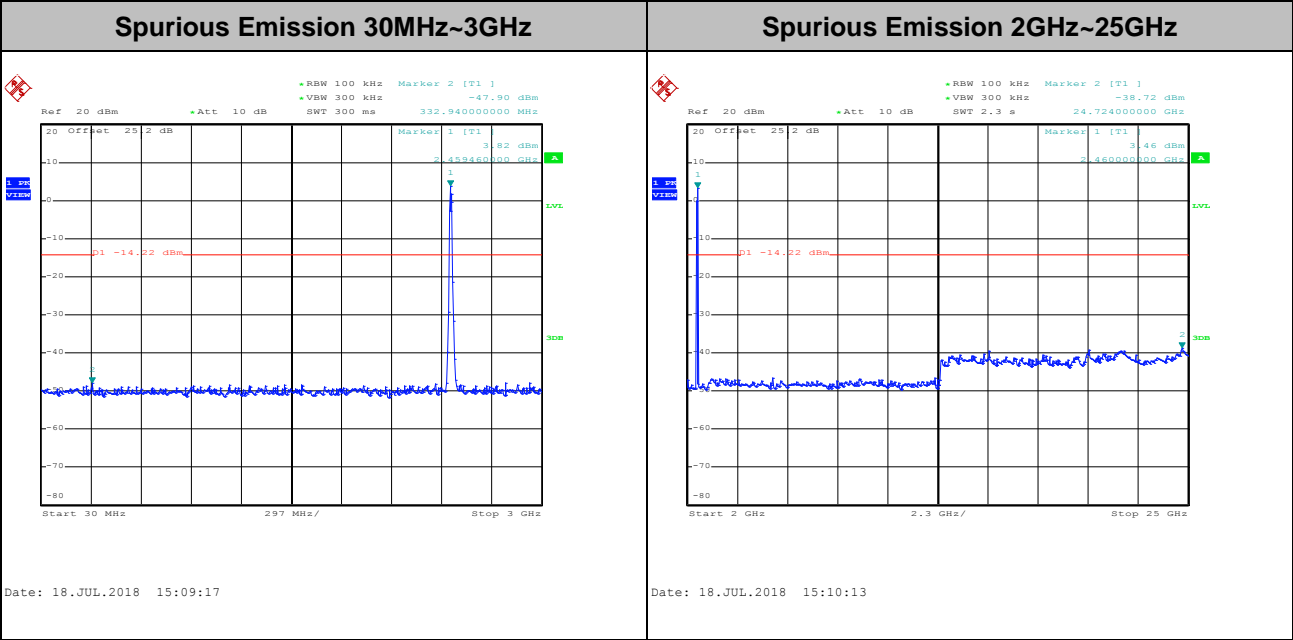
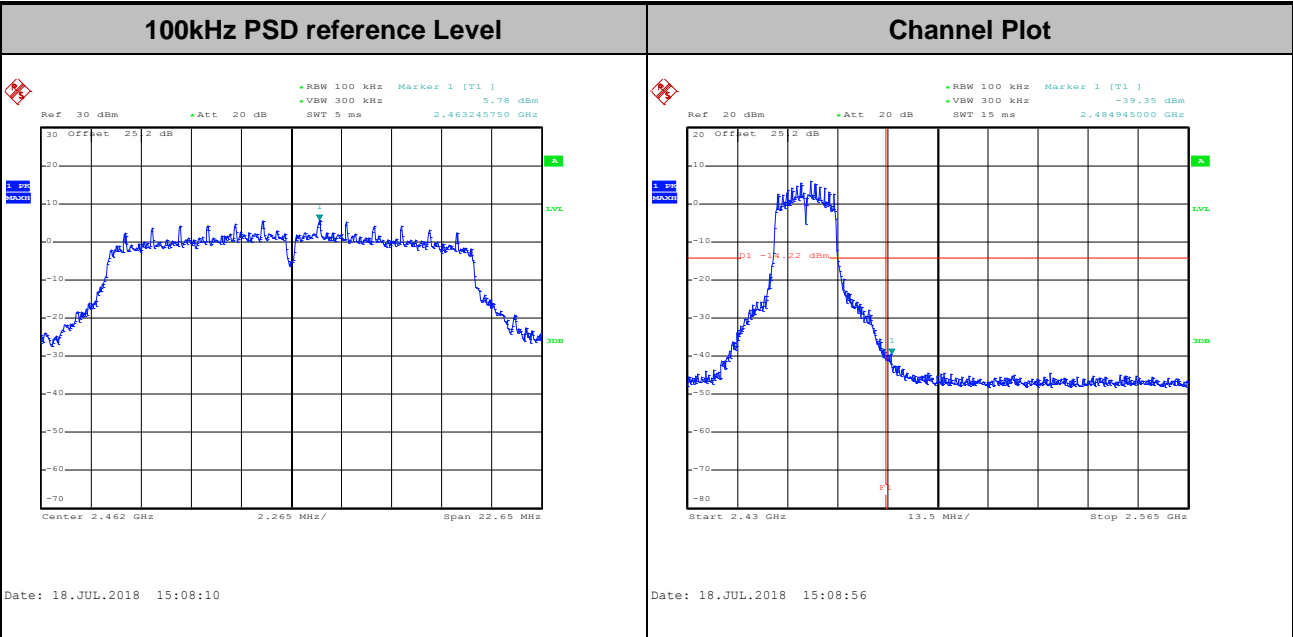


Test Mode :	802.11g	Test Channel :	06
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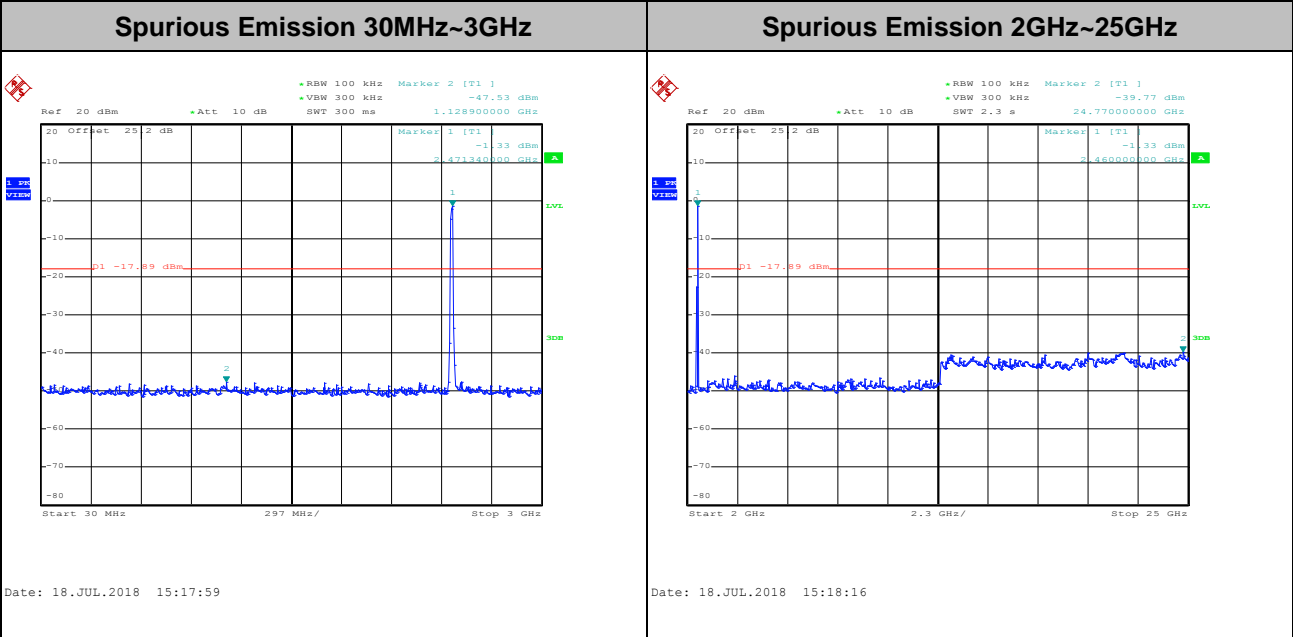
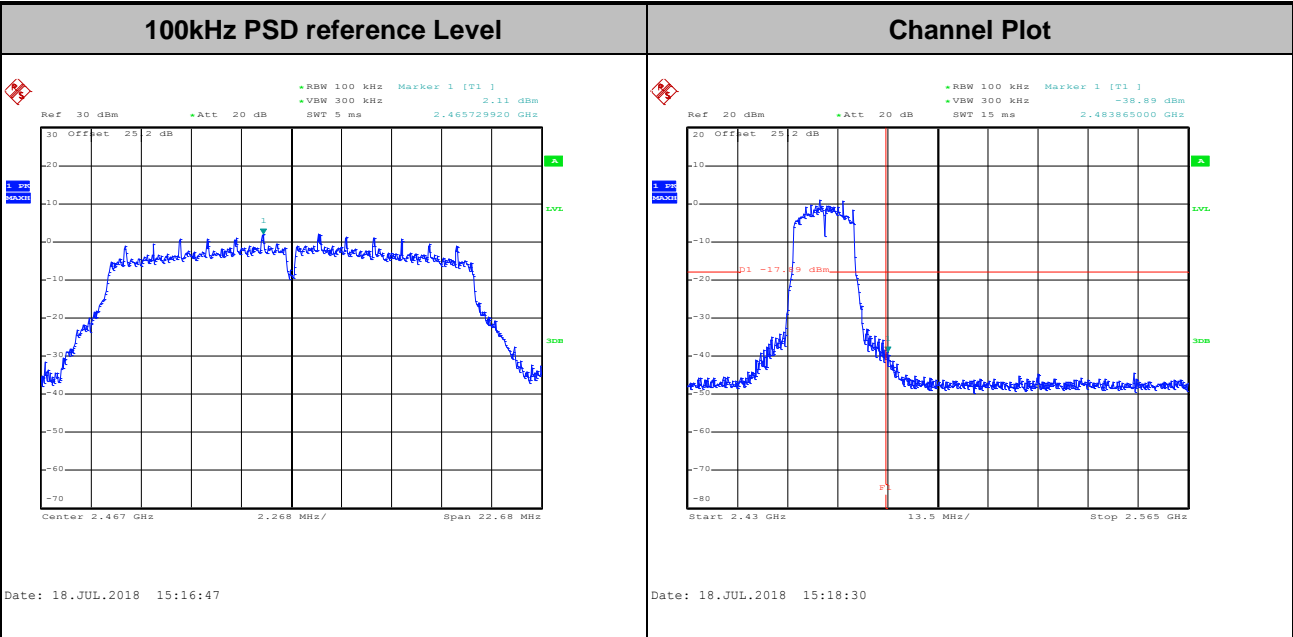


Test Mode :	802.11g	Test Channel :	11
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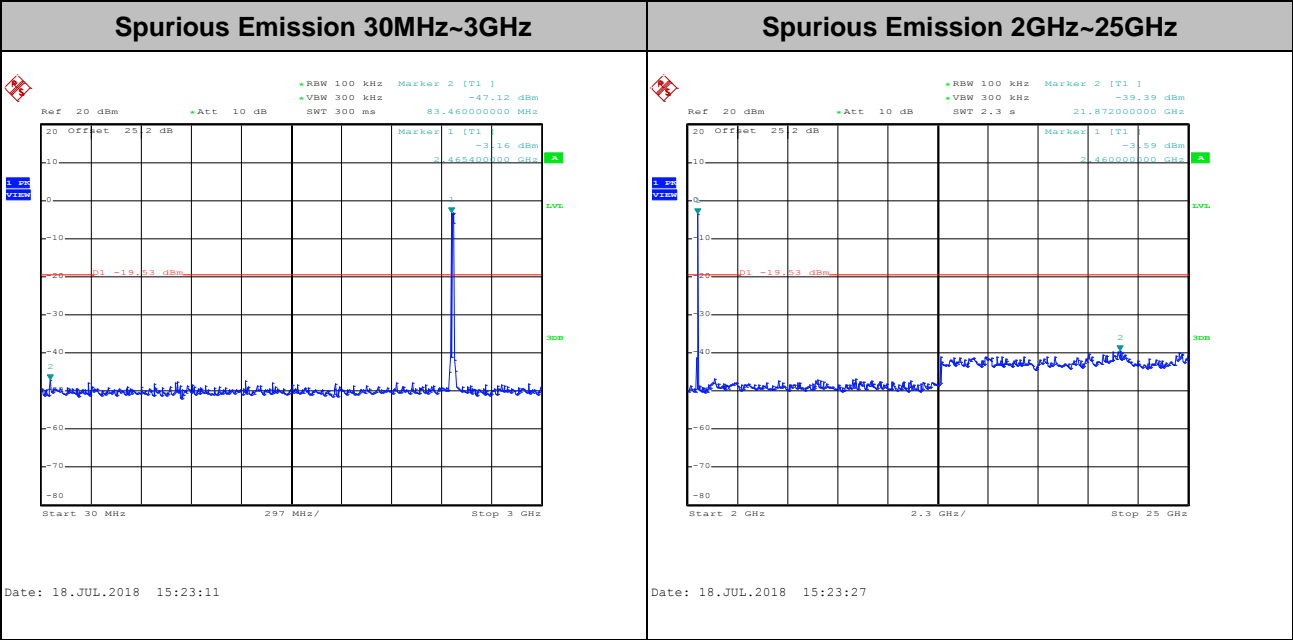
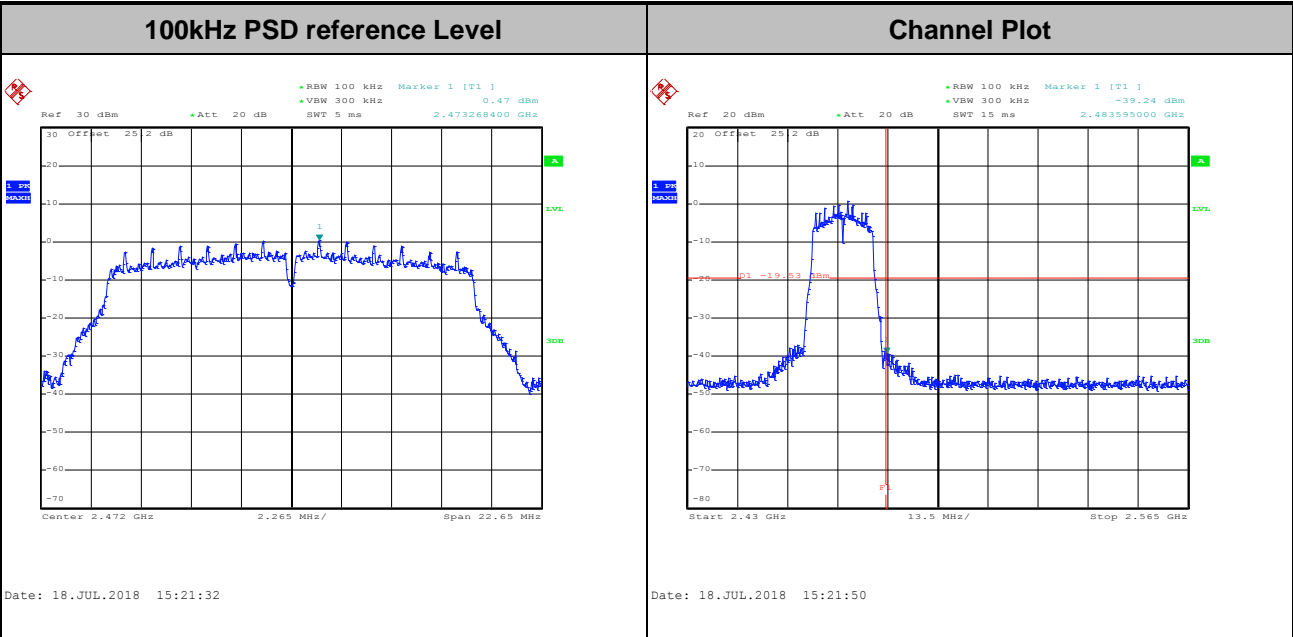


Test Mode :	802.11g	Test Channel :	12
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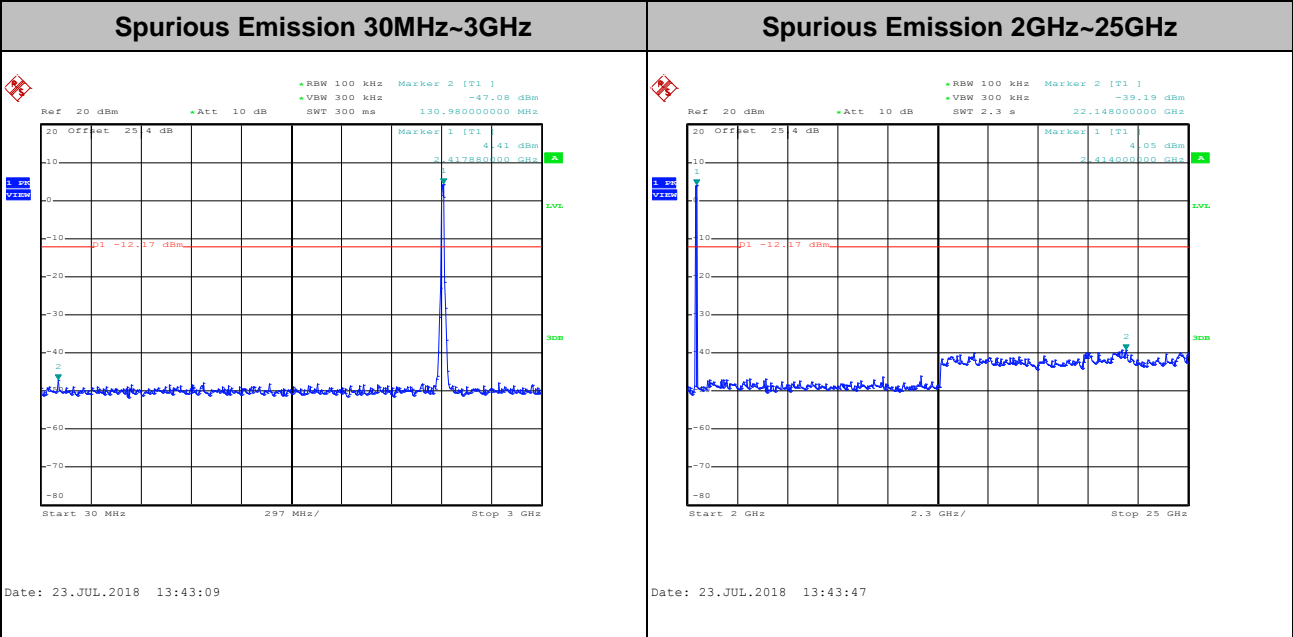
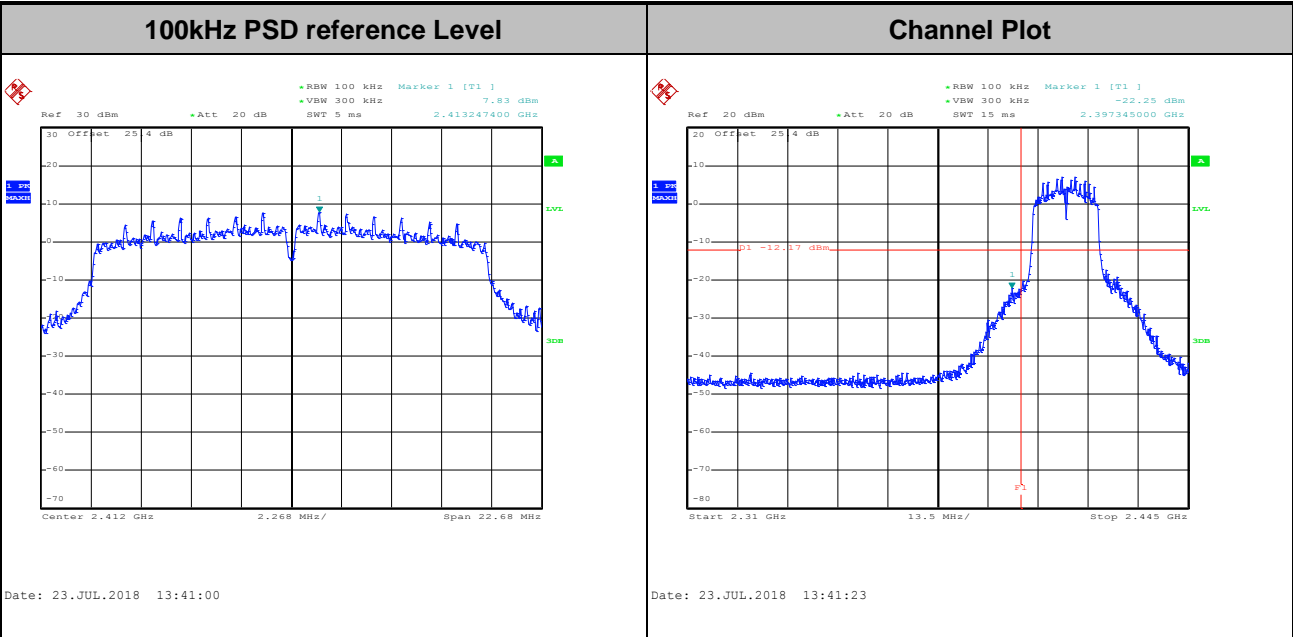


Test Mode :	802.11g	Test Channel :	13
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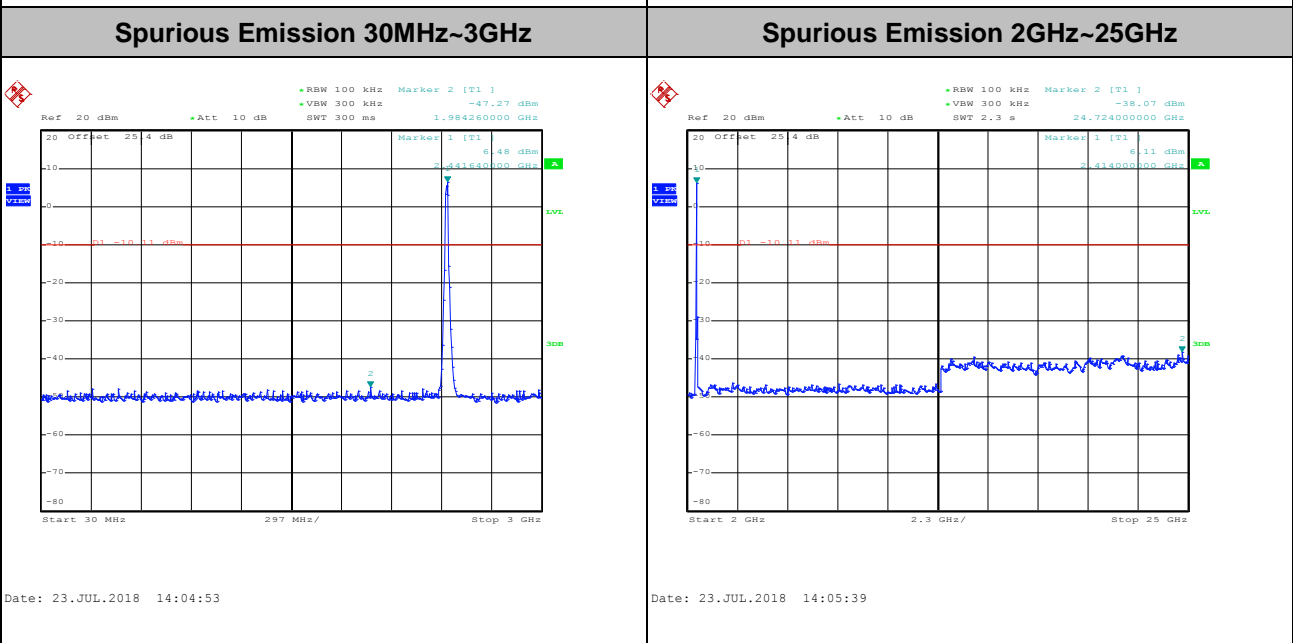
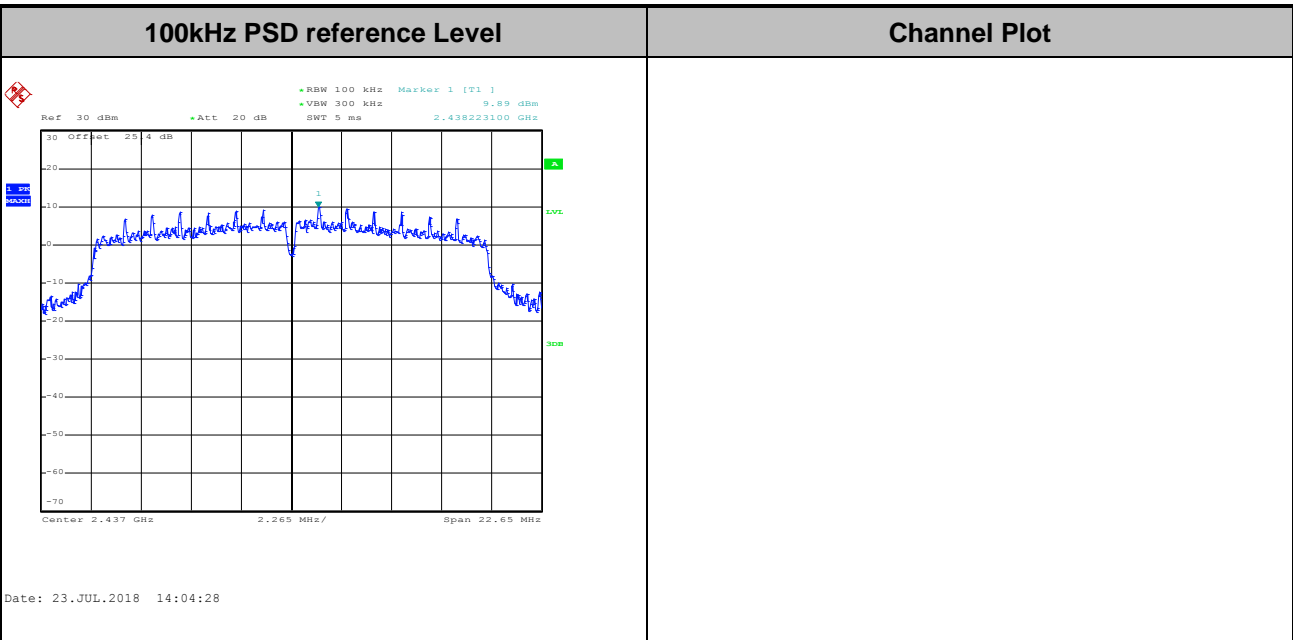


Test Mode :	802.11n HT20	Test Channel :	01
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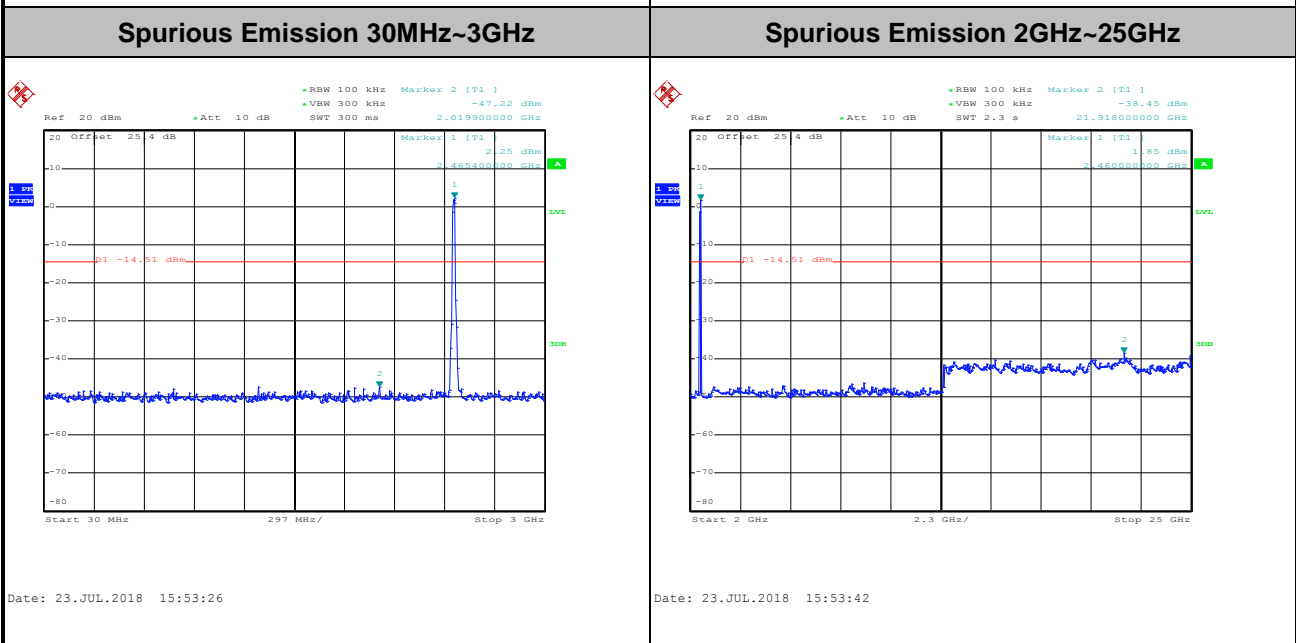
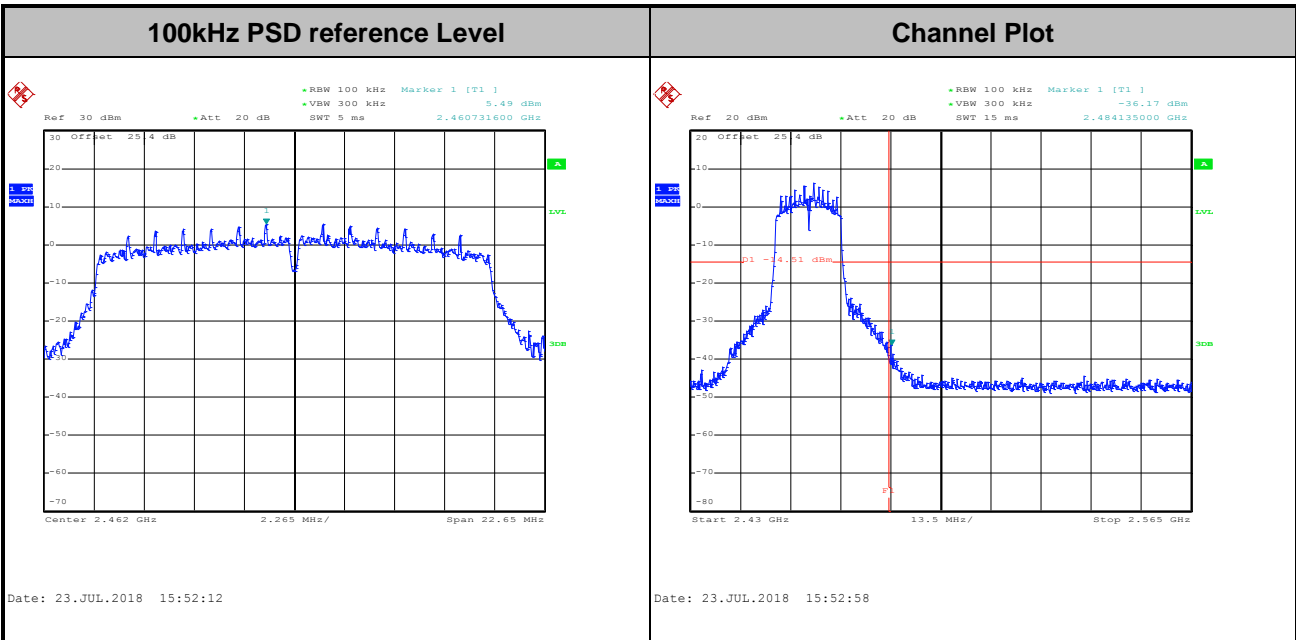


Test Mode :	802.11n HT20	Test Channel :	06
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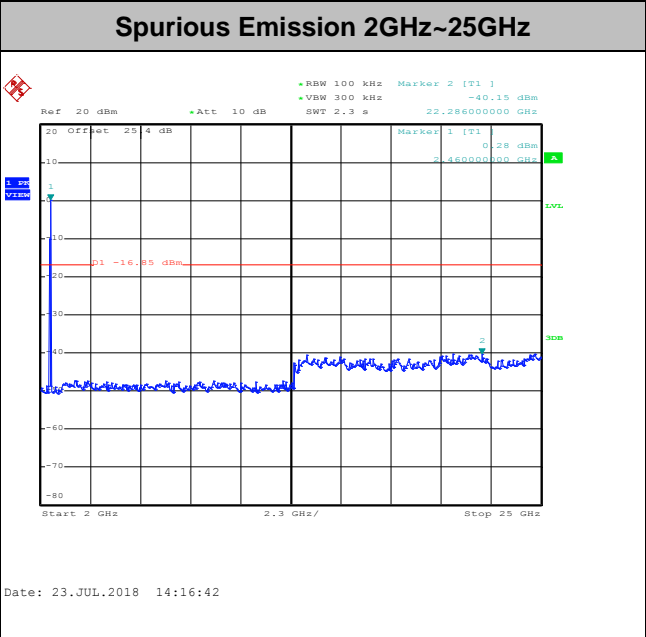
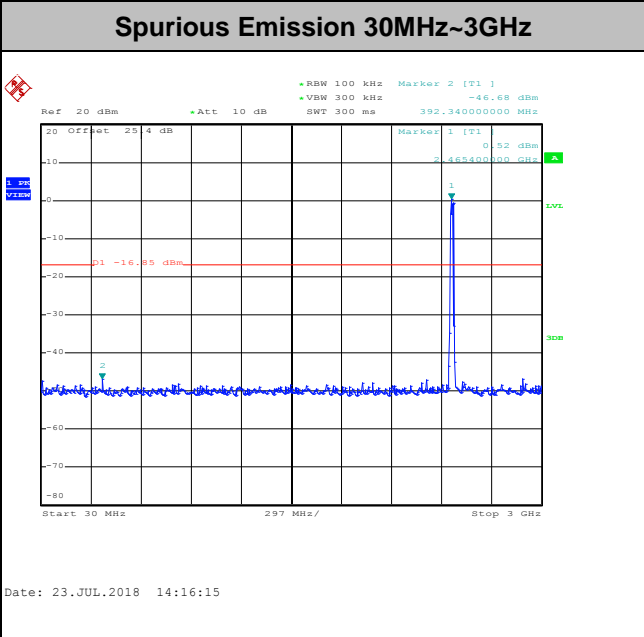
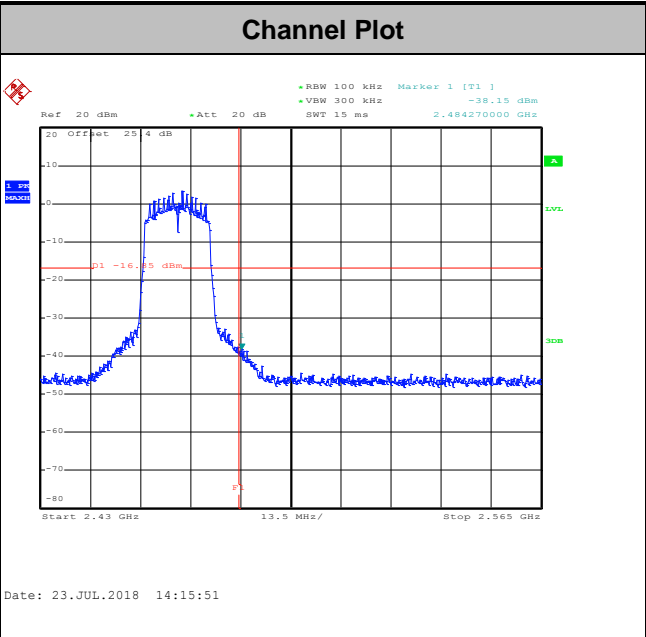
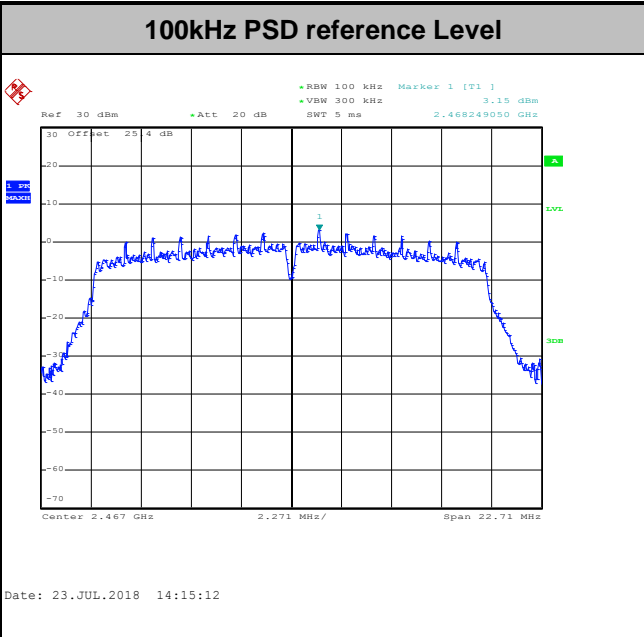


Test Mode :	802.11n HT20	Test Channel :	11
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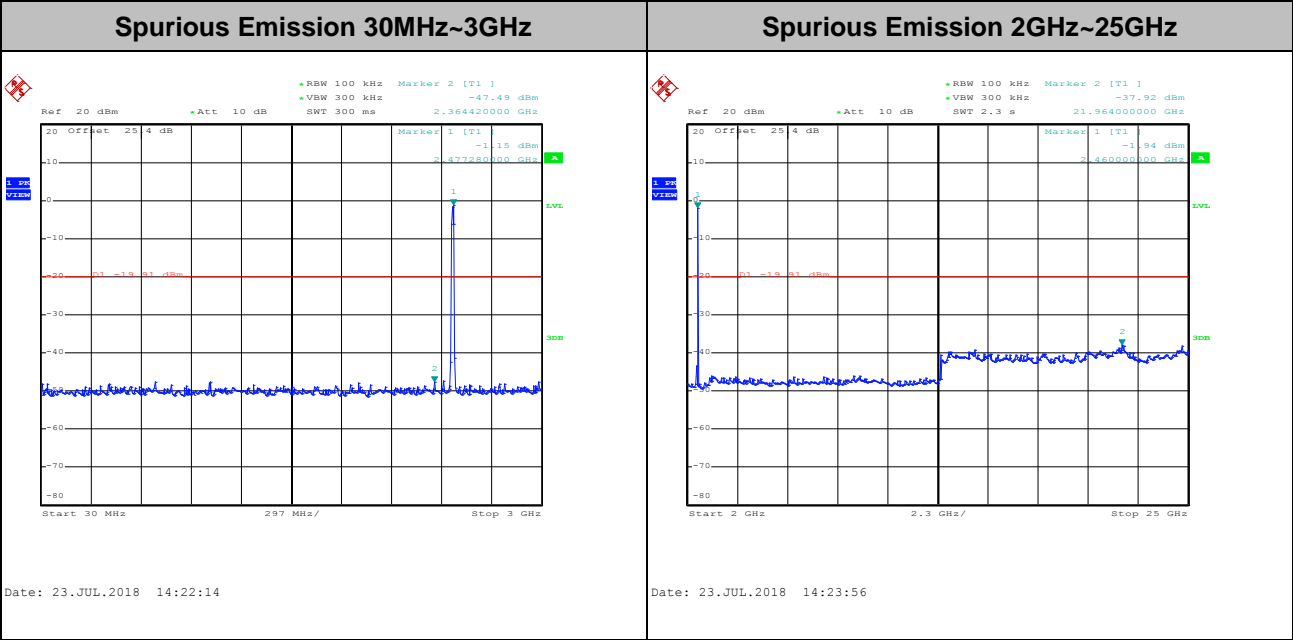
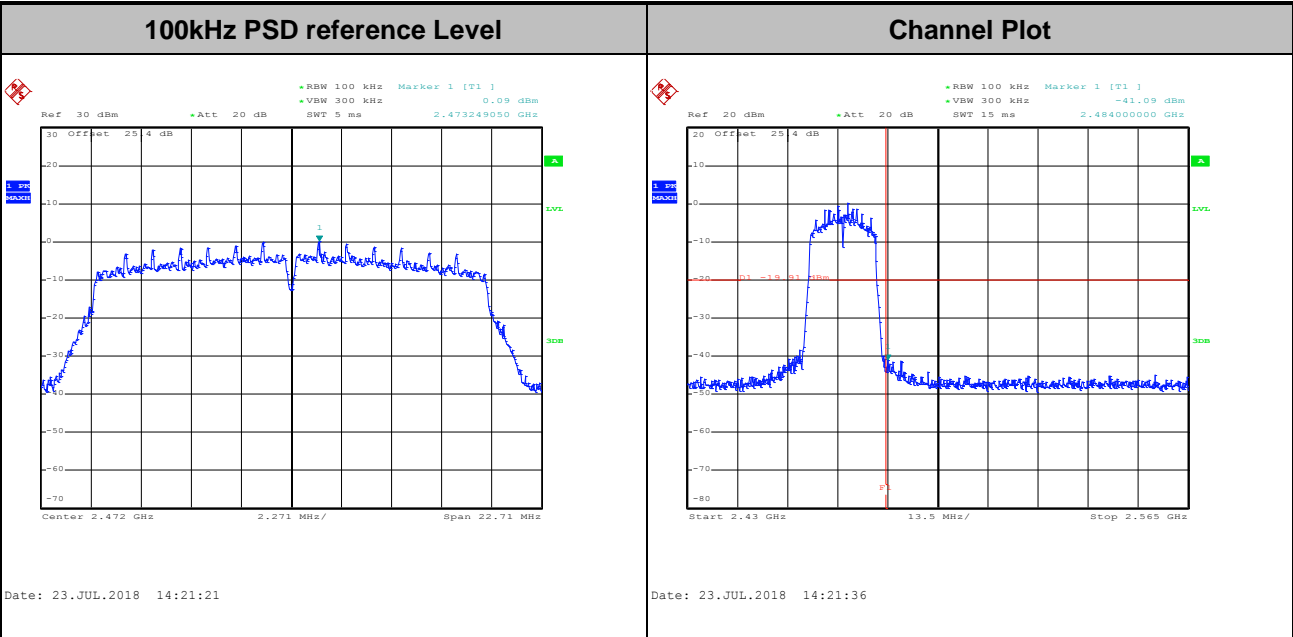


Test Mode :	802.11n HT20	Test Channel :	12
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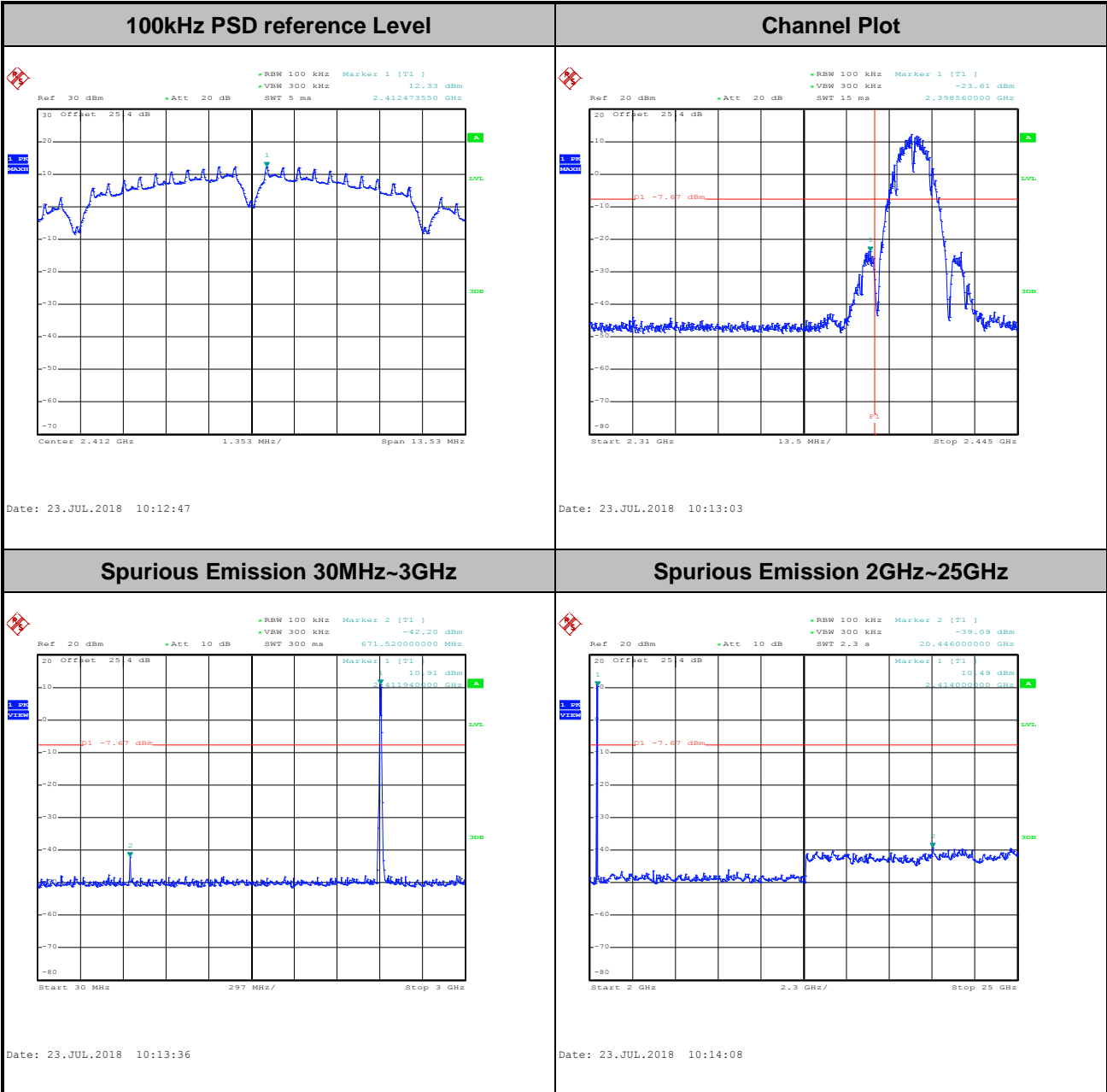
Test Mode :	802.11n HT20	Test Channel :	13
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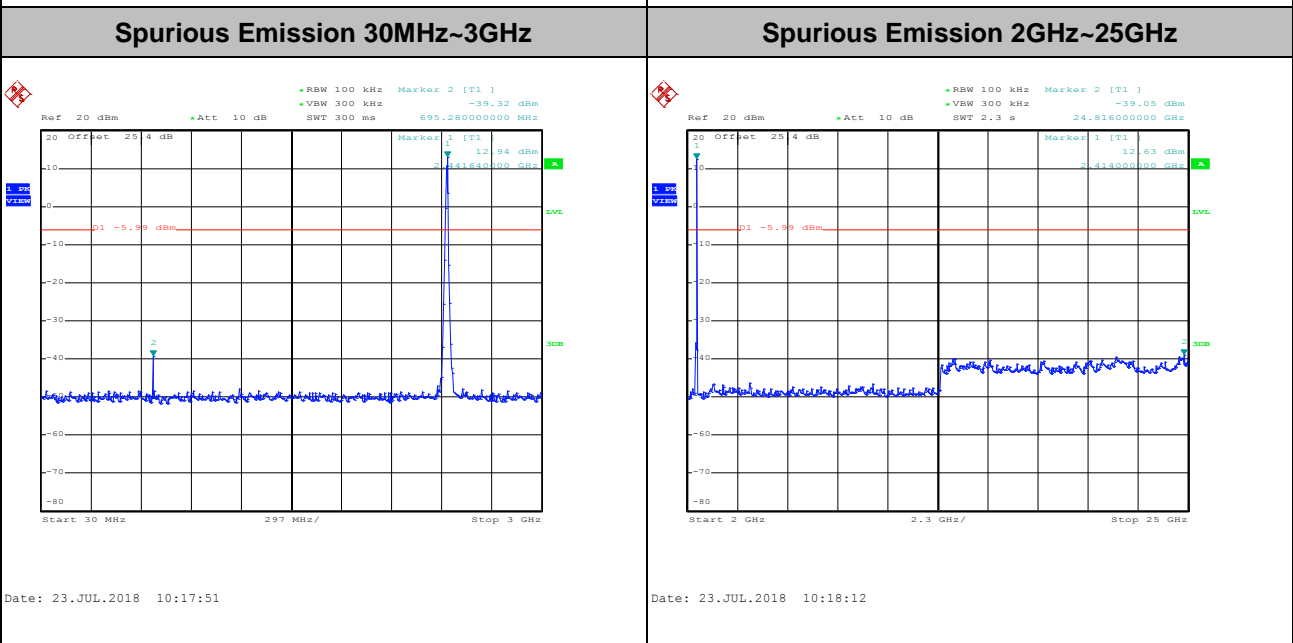
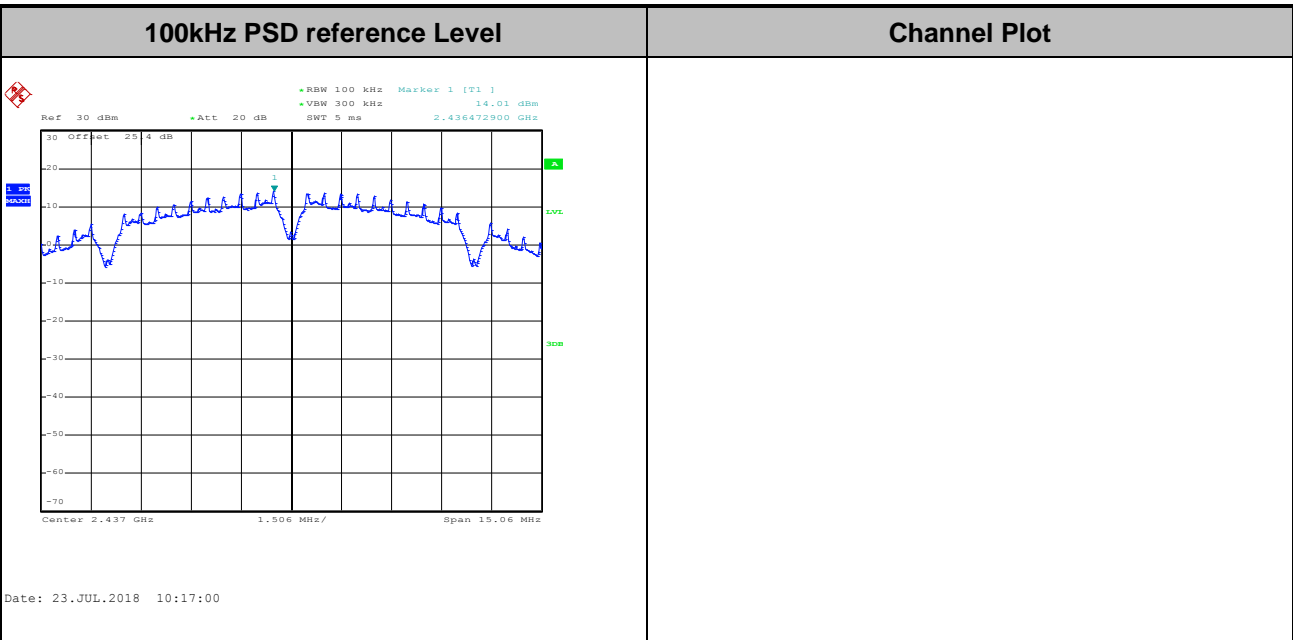
Number of TX = 1, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
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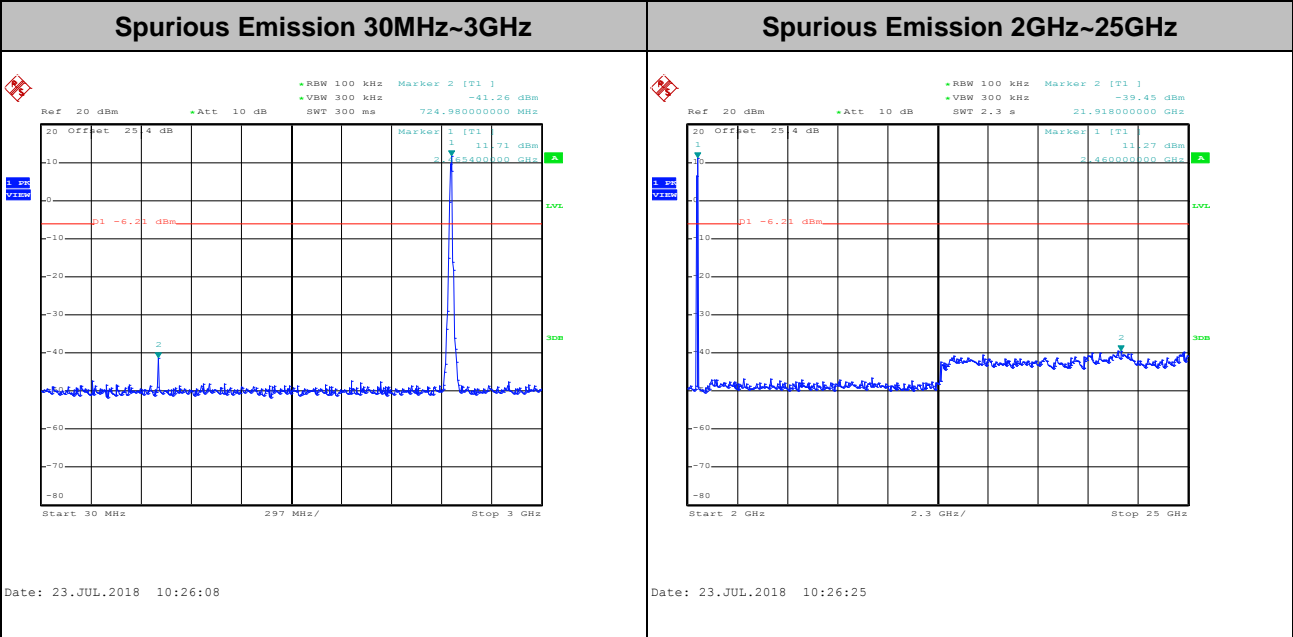
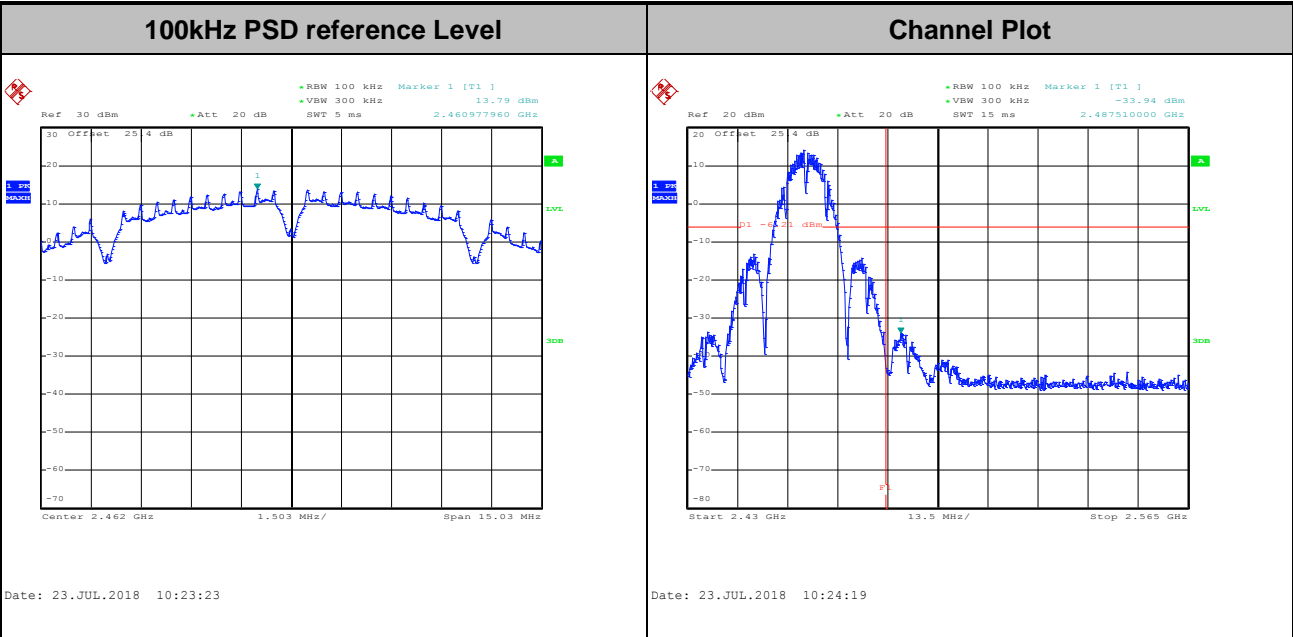


Test Mode :	802.11b	Test Channel :	06
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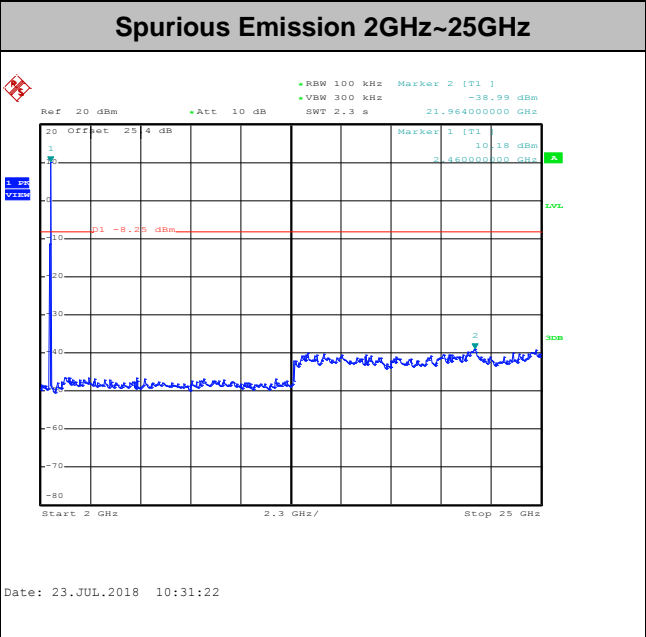
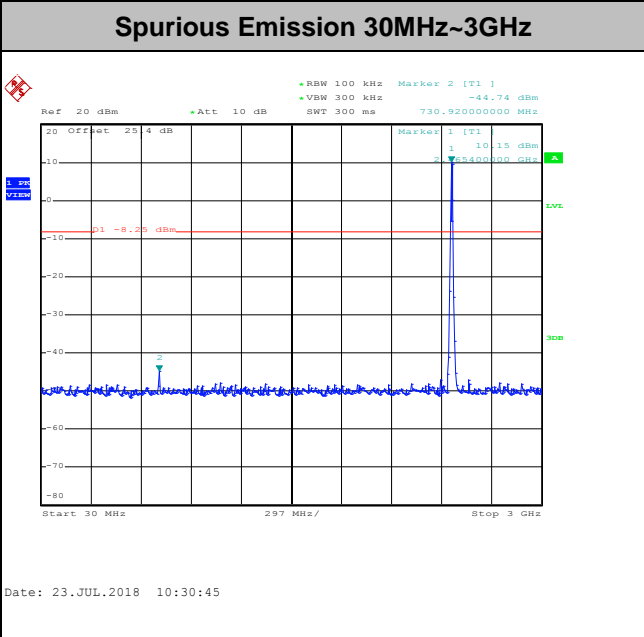
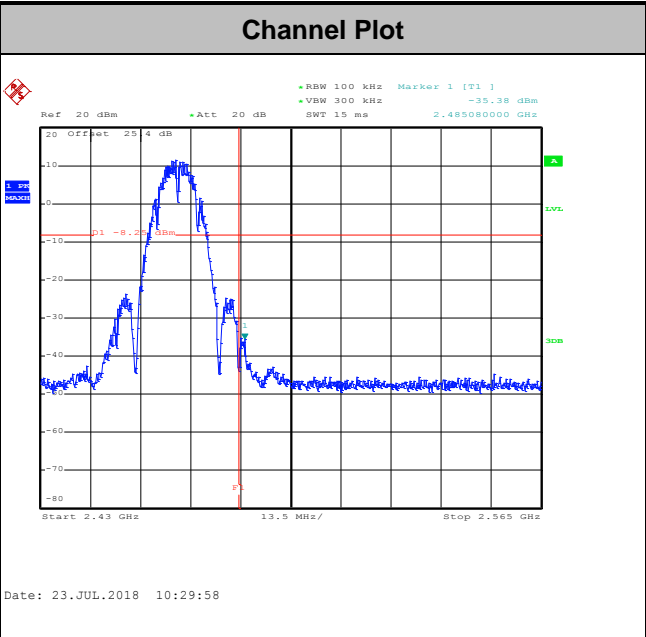
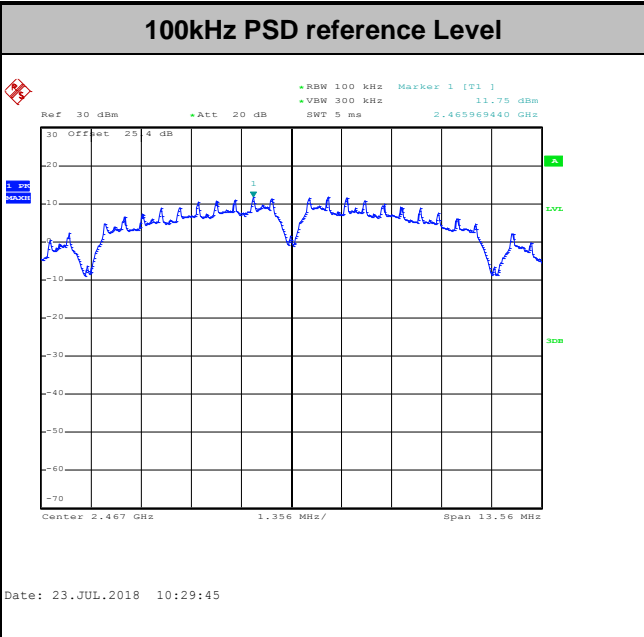


Test Mode :	802.11b	Test Channel :	11
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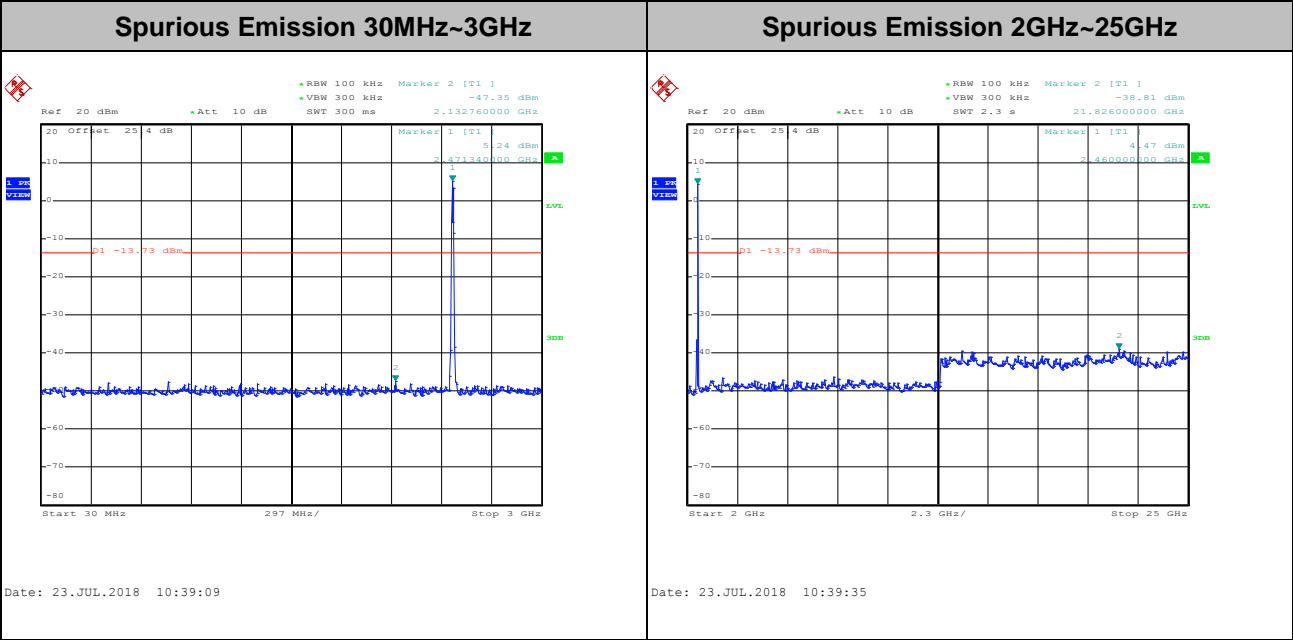
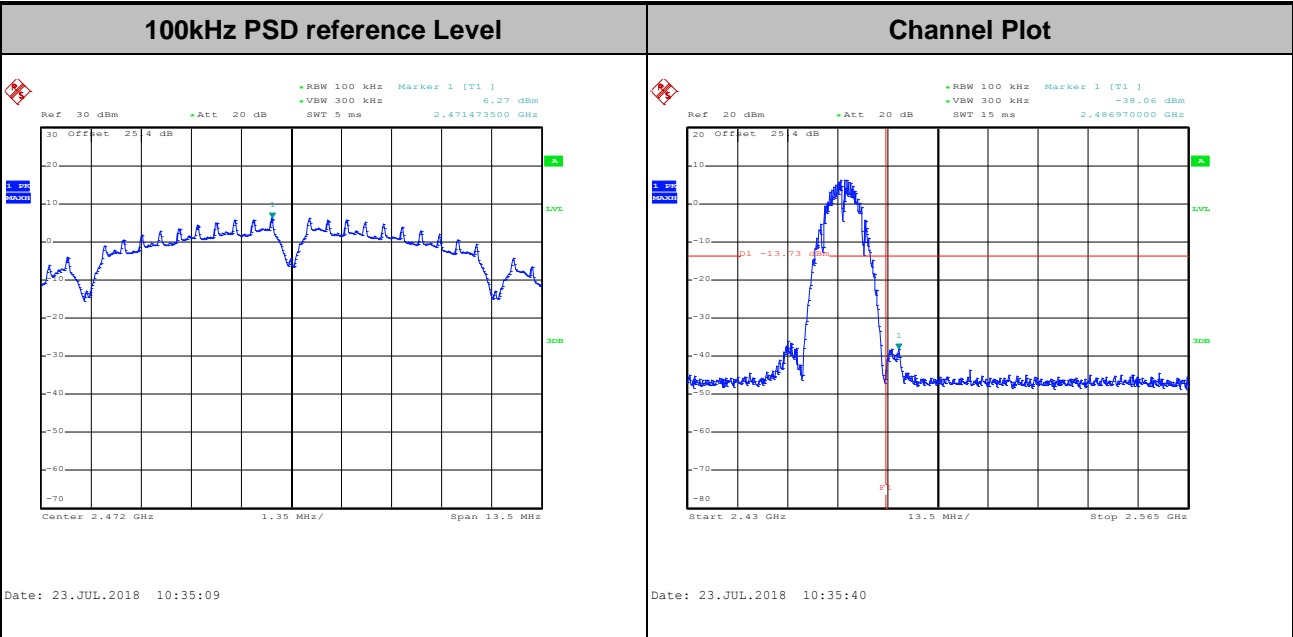


Test Mode :	802.11b	Test Channel :	12
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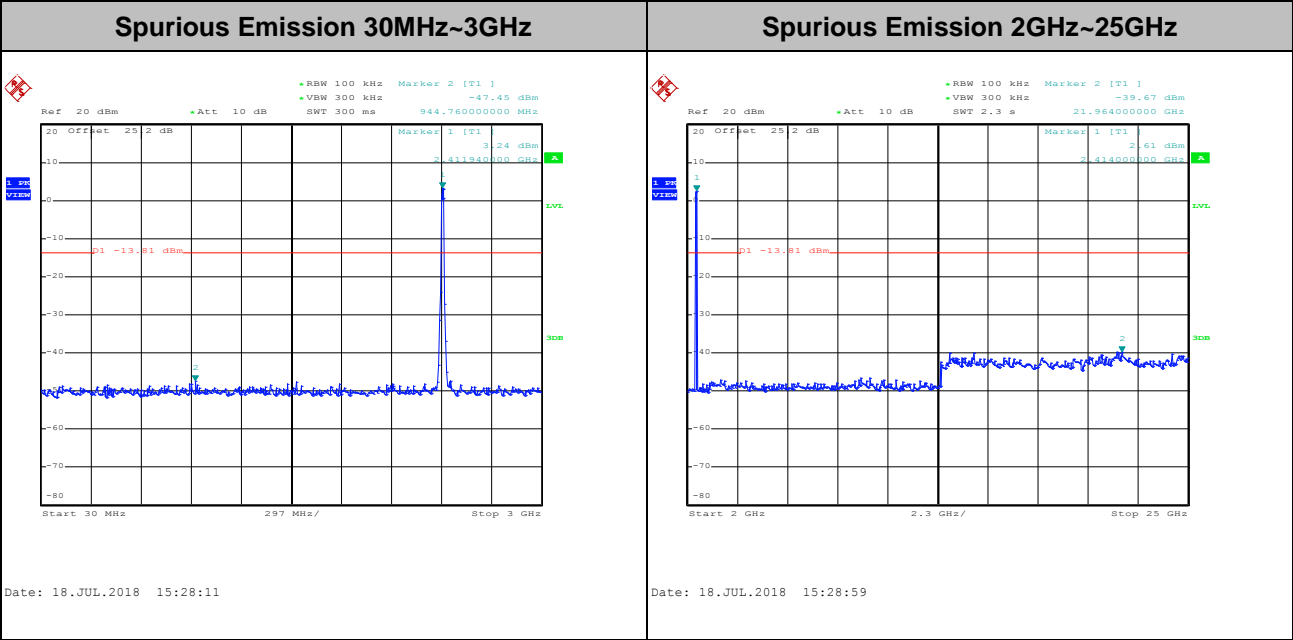
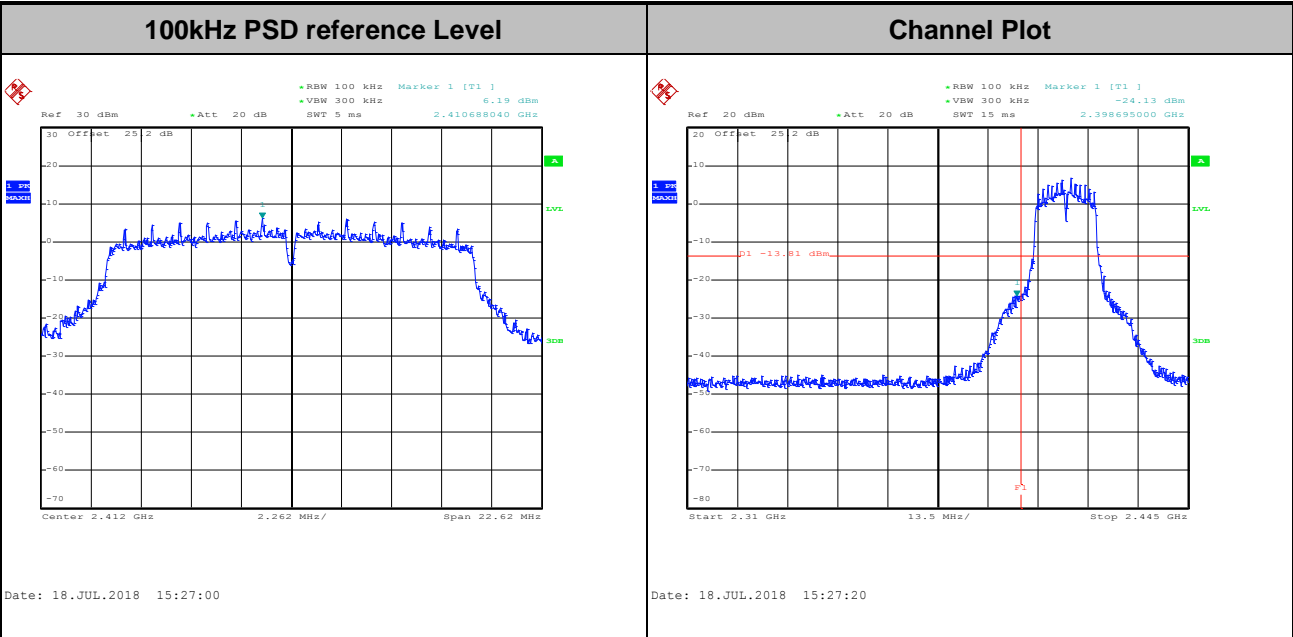


Test Mode :	802.11b	Test Channel :	13
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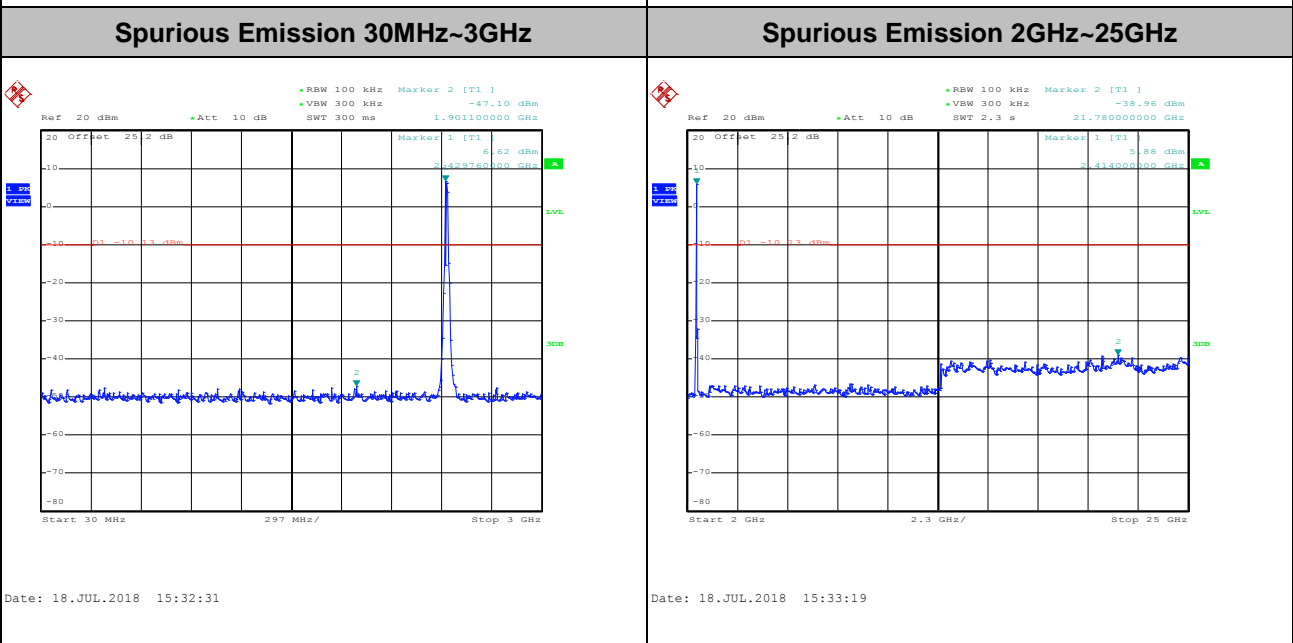
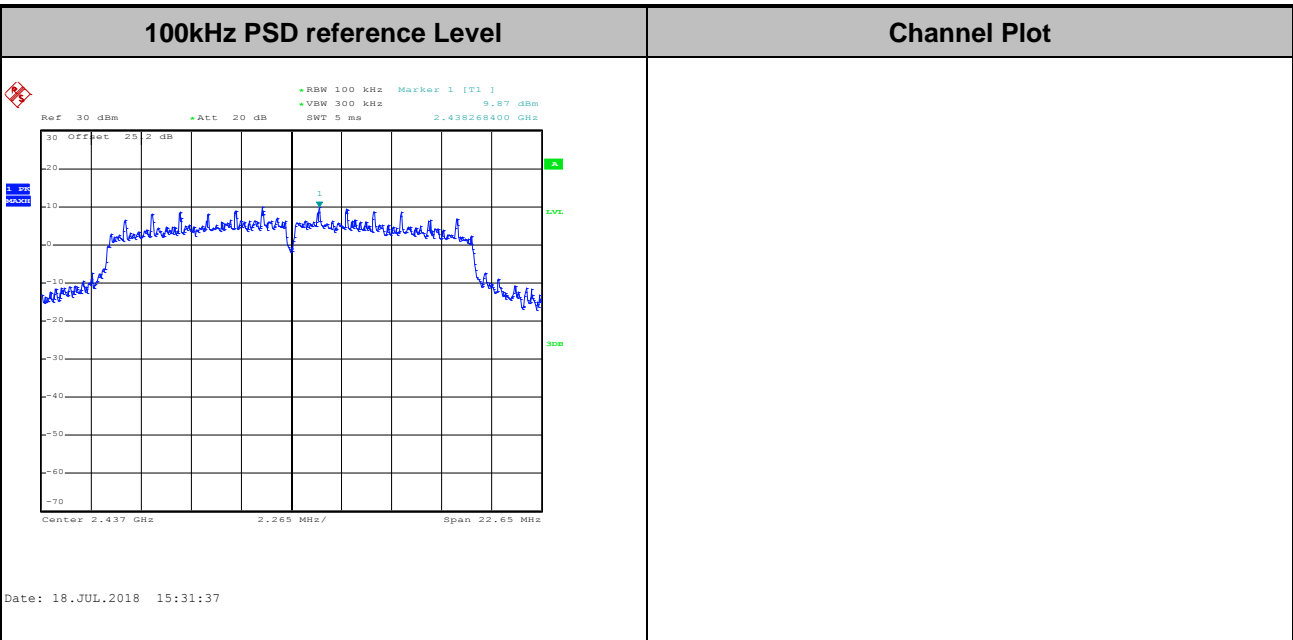


Test Mode :	802.11g	Test Channel :	01
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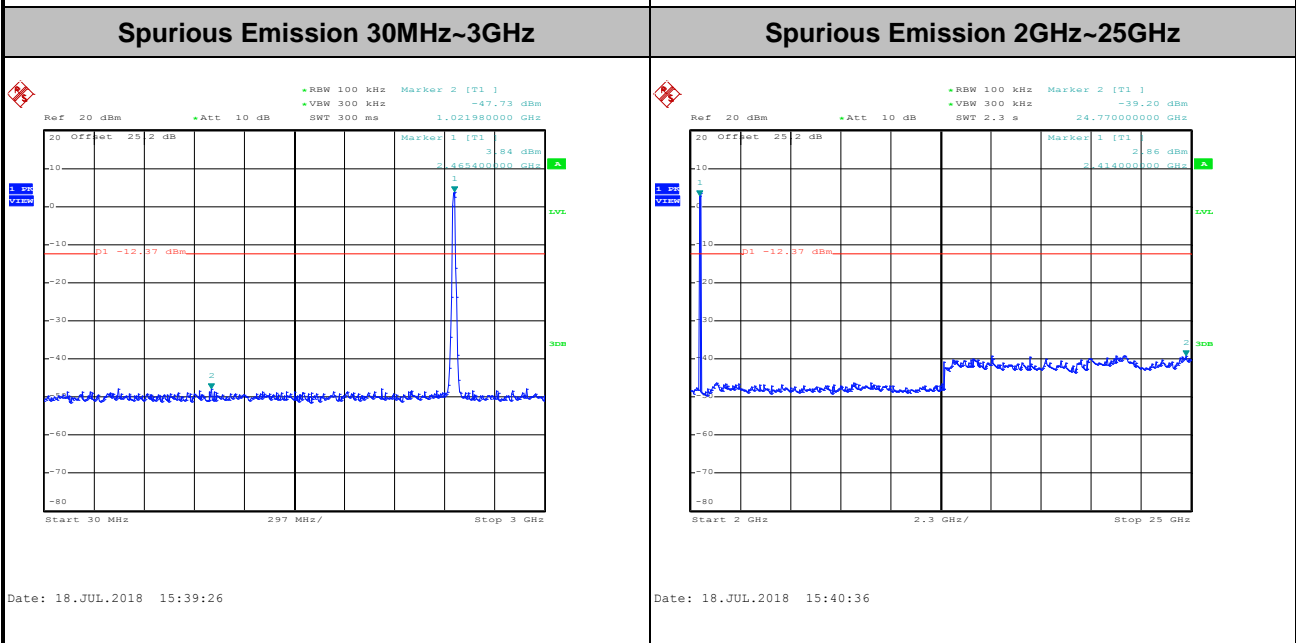
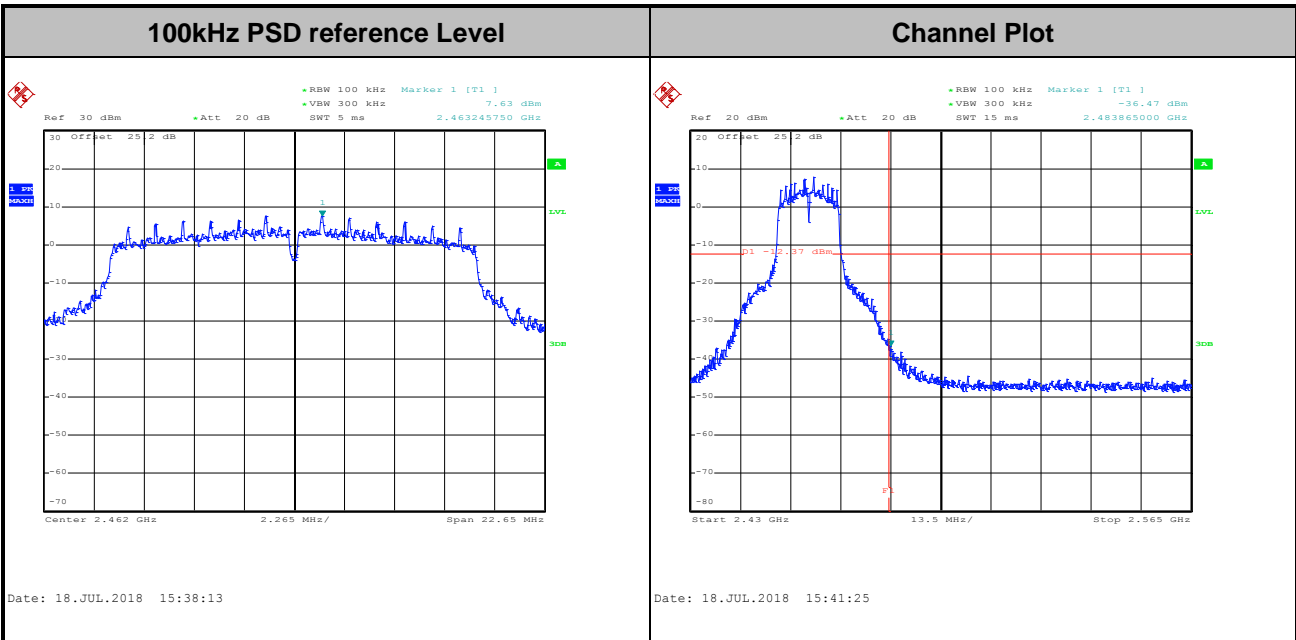


Test Mode :	802.11g	Test Channel :	06
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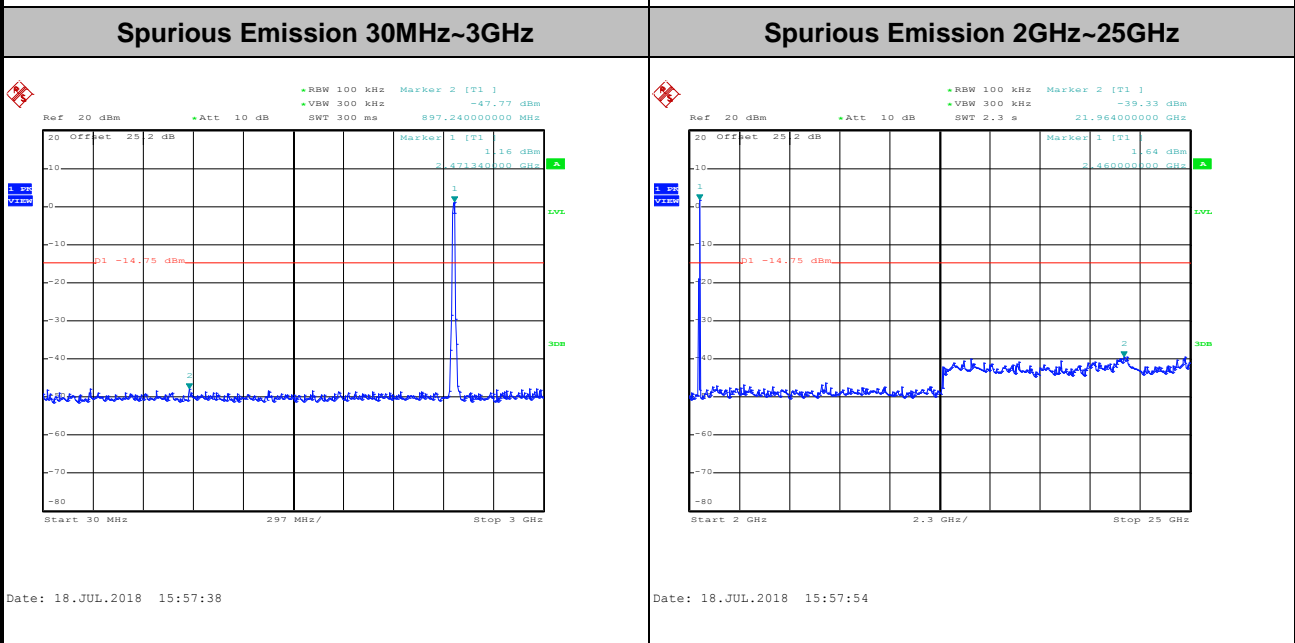
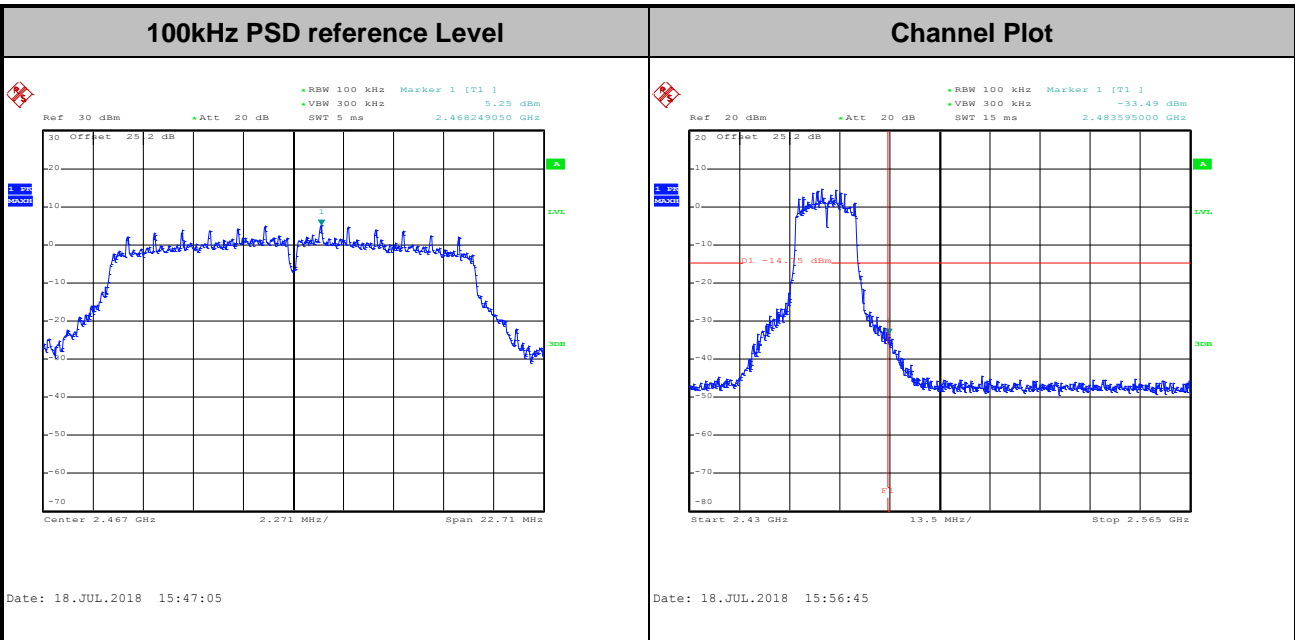


Test Mode :	802.11g	Test Channel :	11
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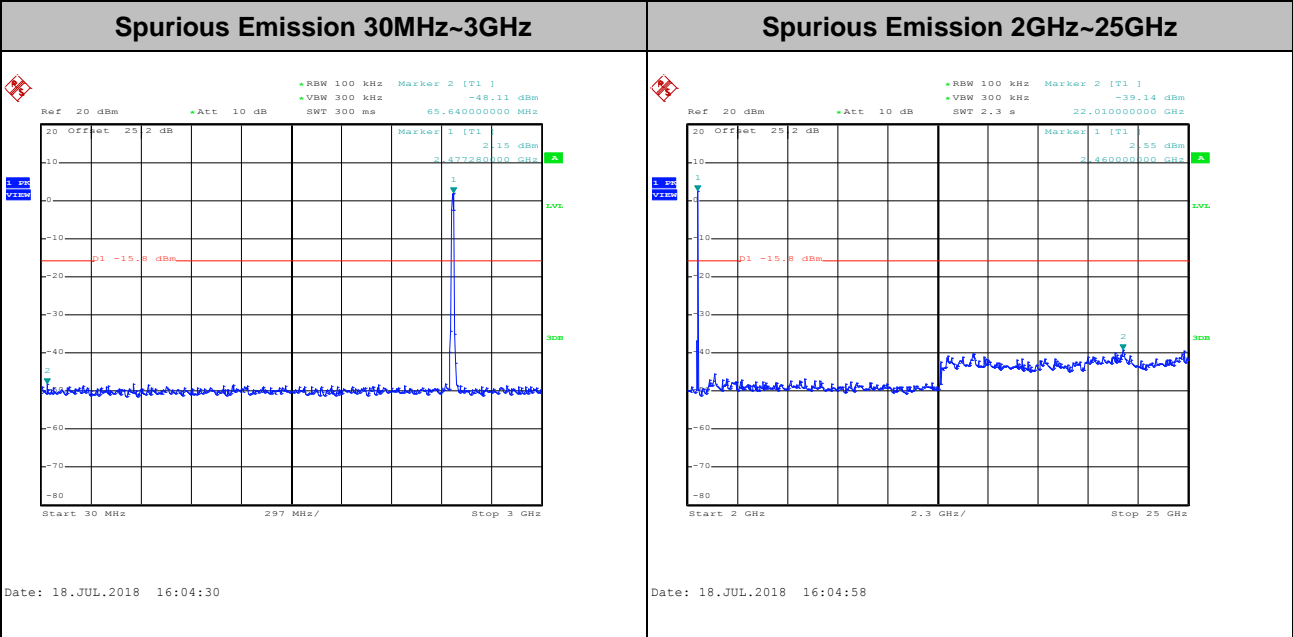
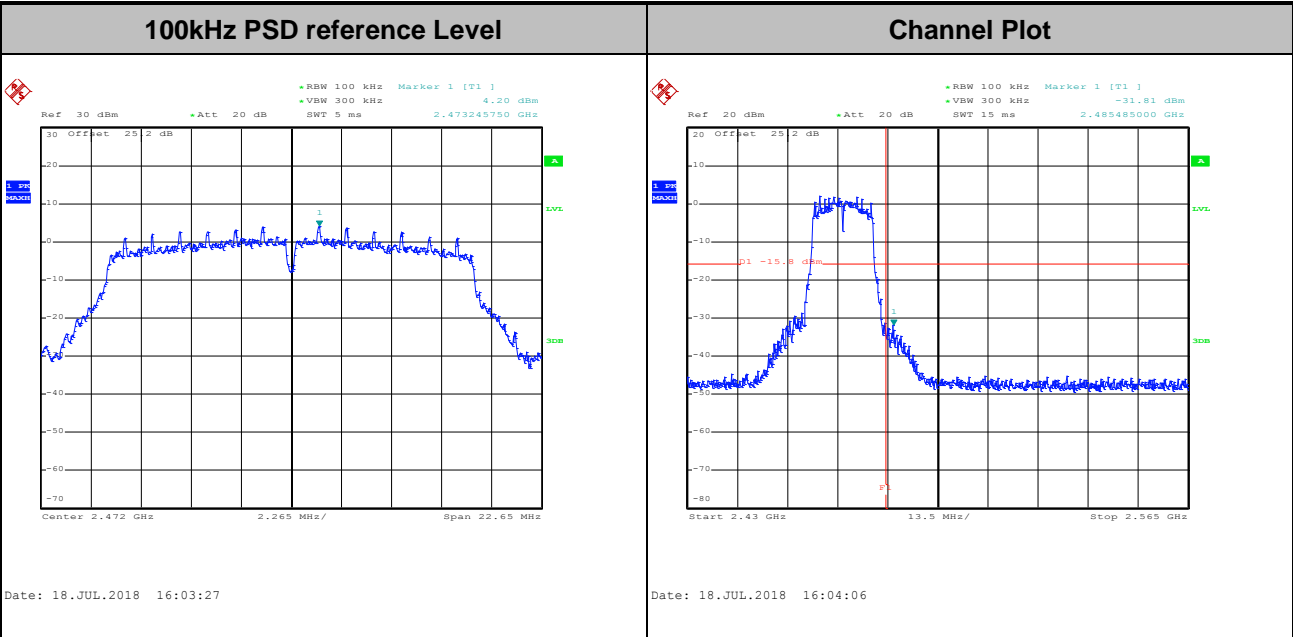


Test Mode :	802.11g	Test Channel :	12
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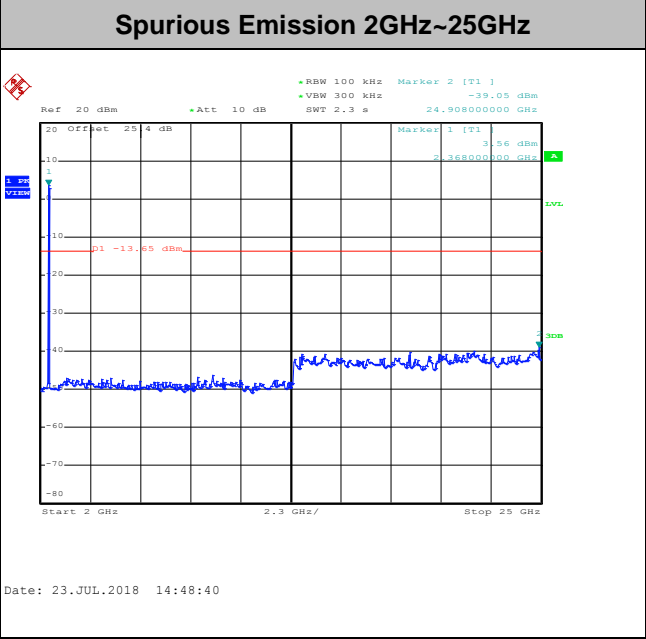
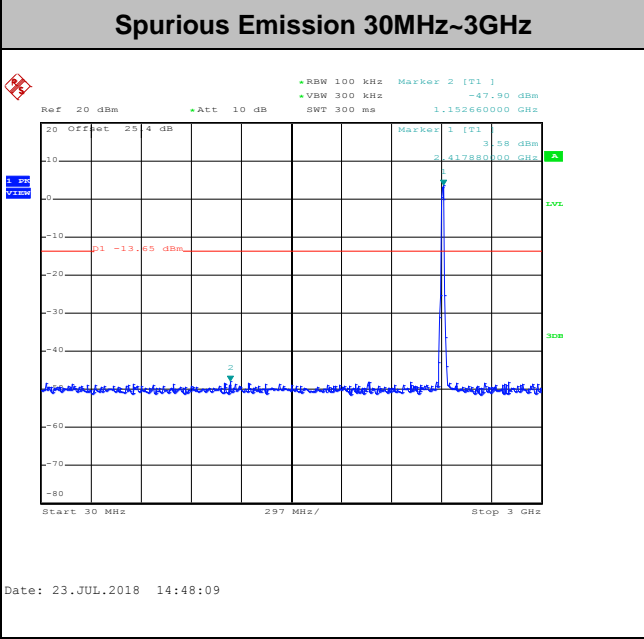
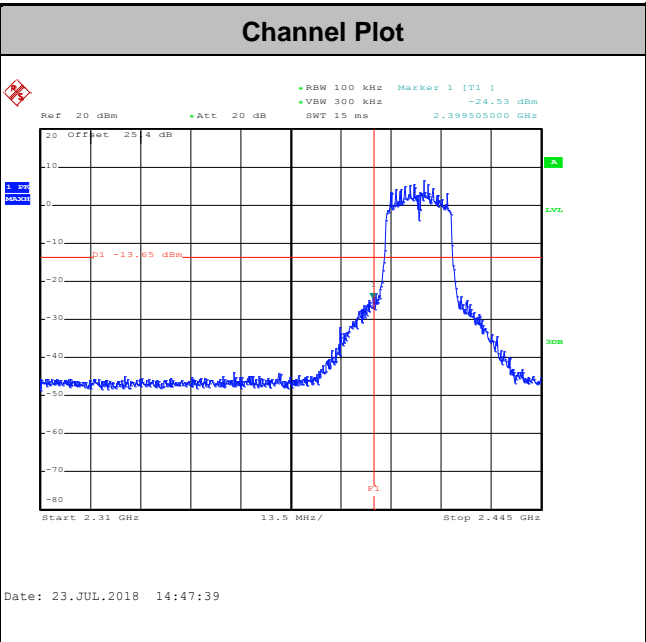
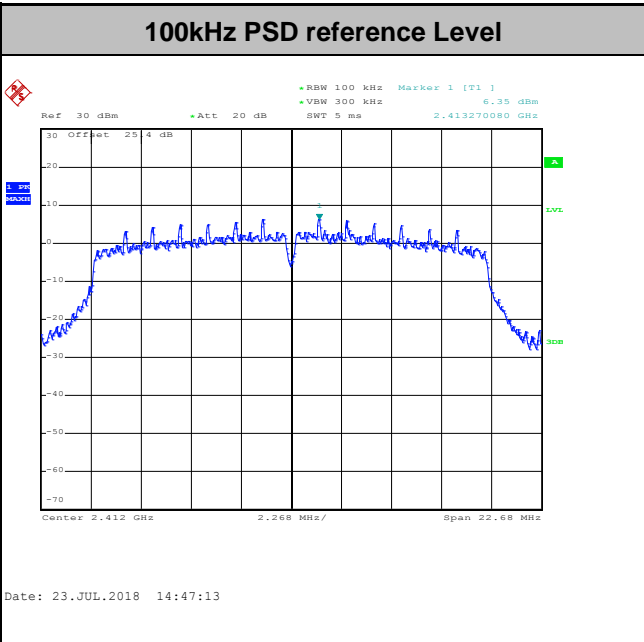


Test Mode :	802.11g	Test Channel :	13
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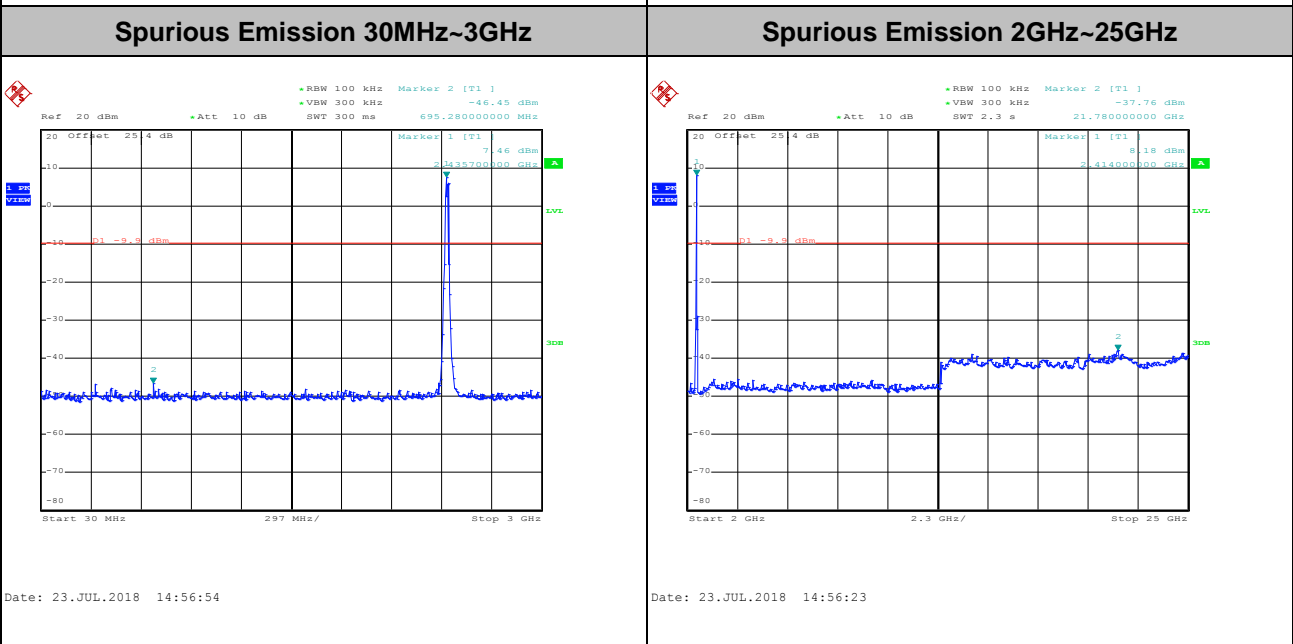
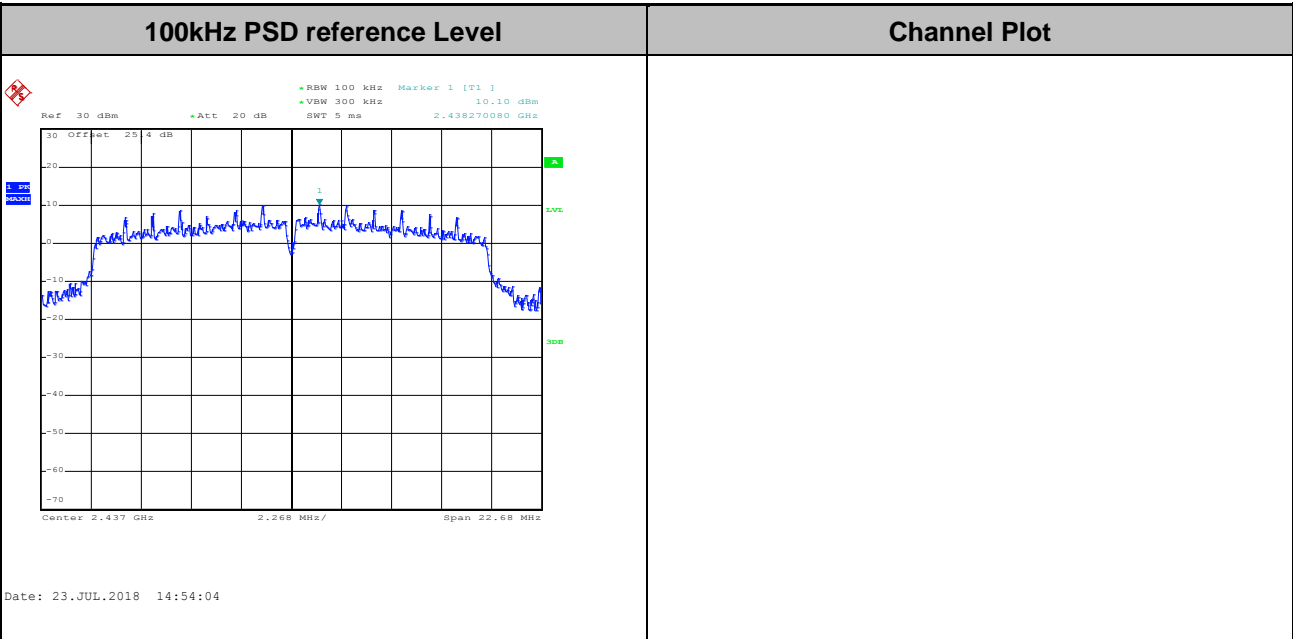


Test Mode :	802.11n HT20	Test Channel :	01
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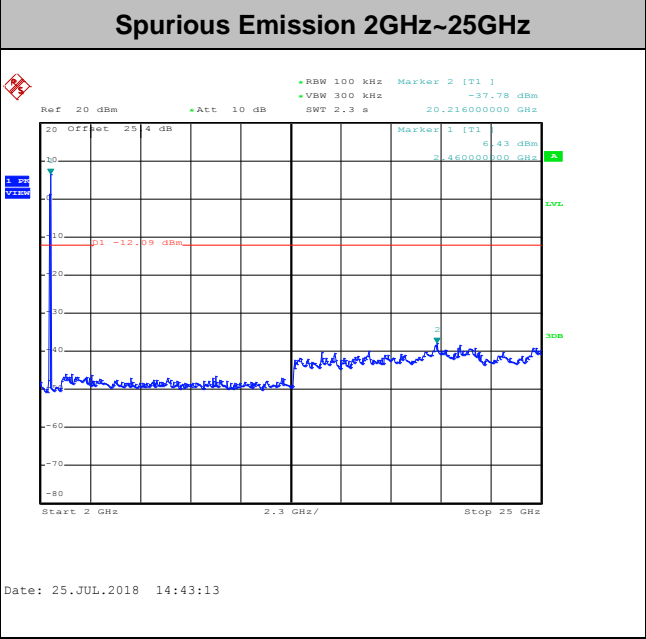
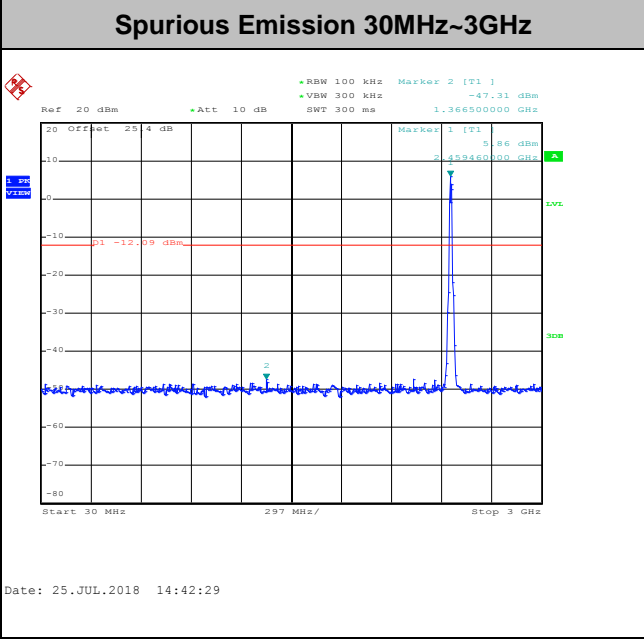
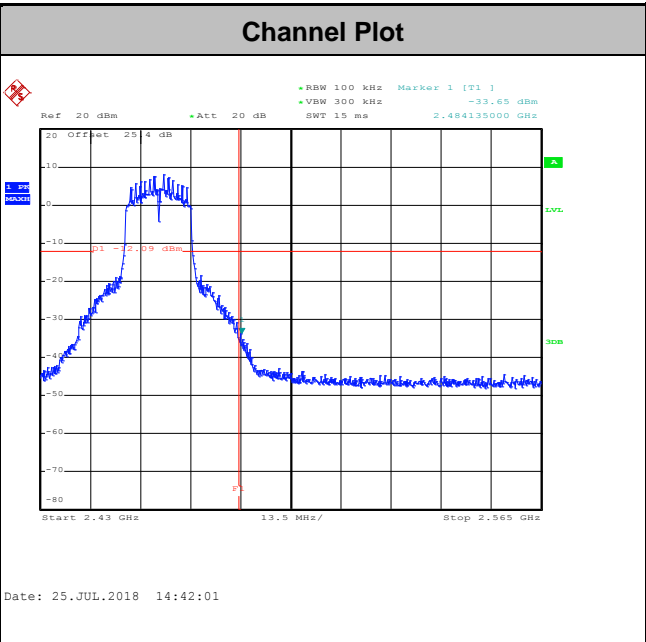
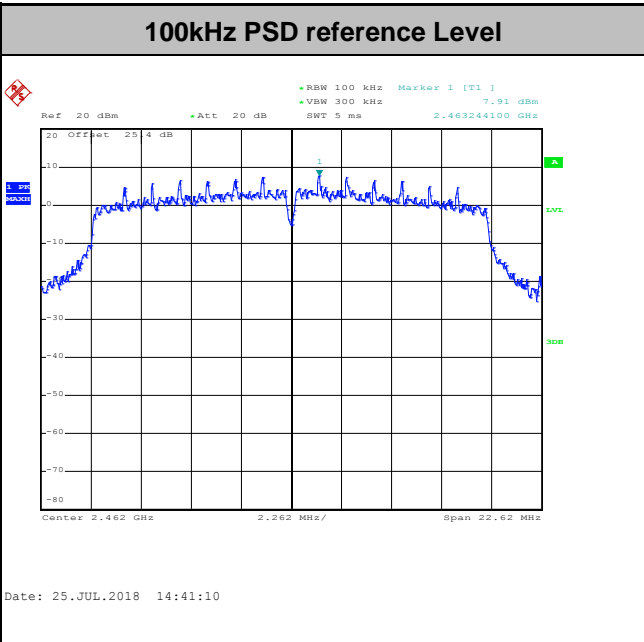


Test Mode :	802.11n HT20	Test Channel :	06
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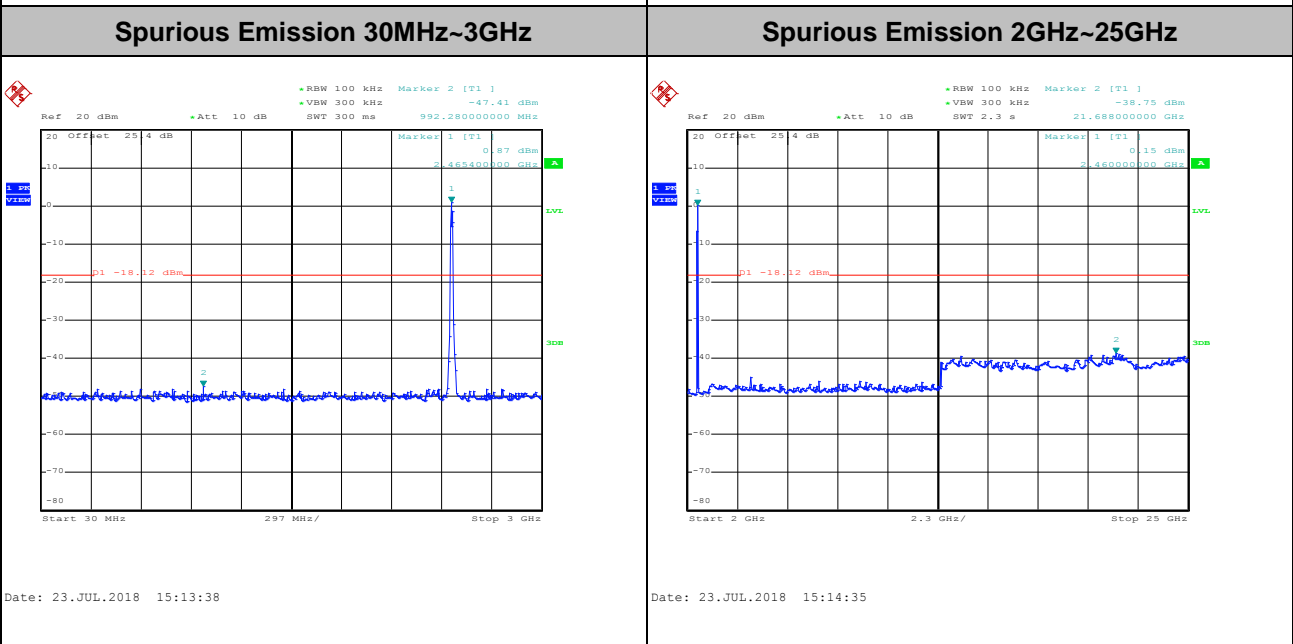
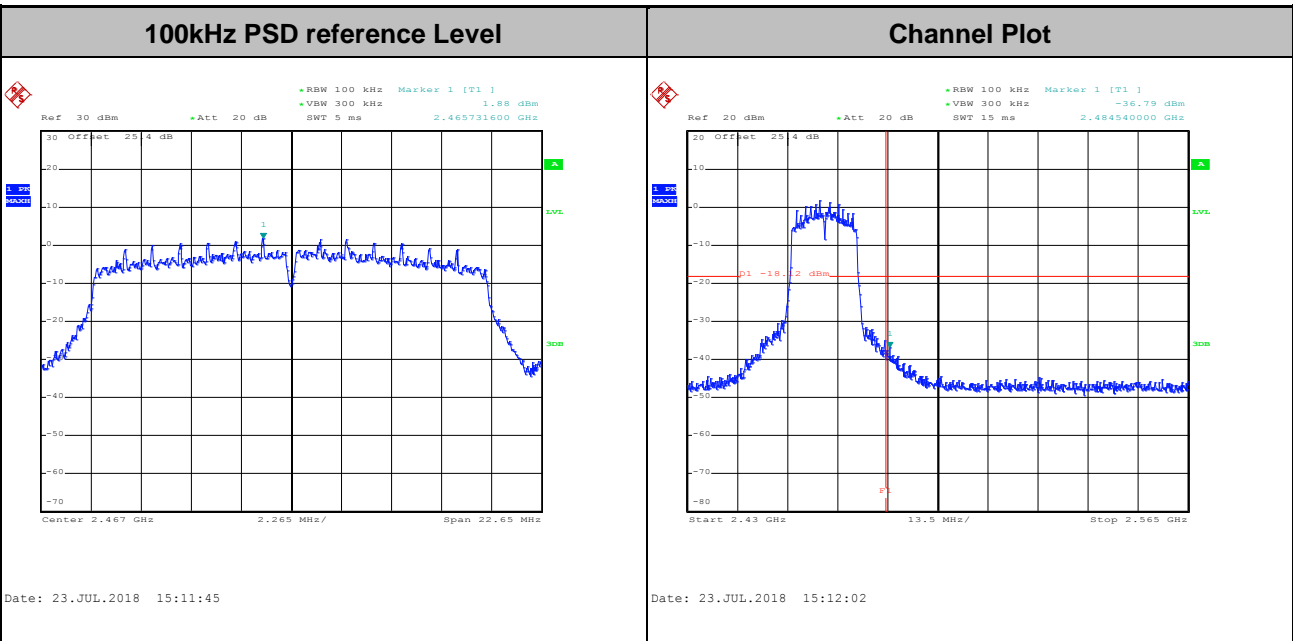


Test Mode :	802.11n HT20	Test Channel :	11
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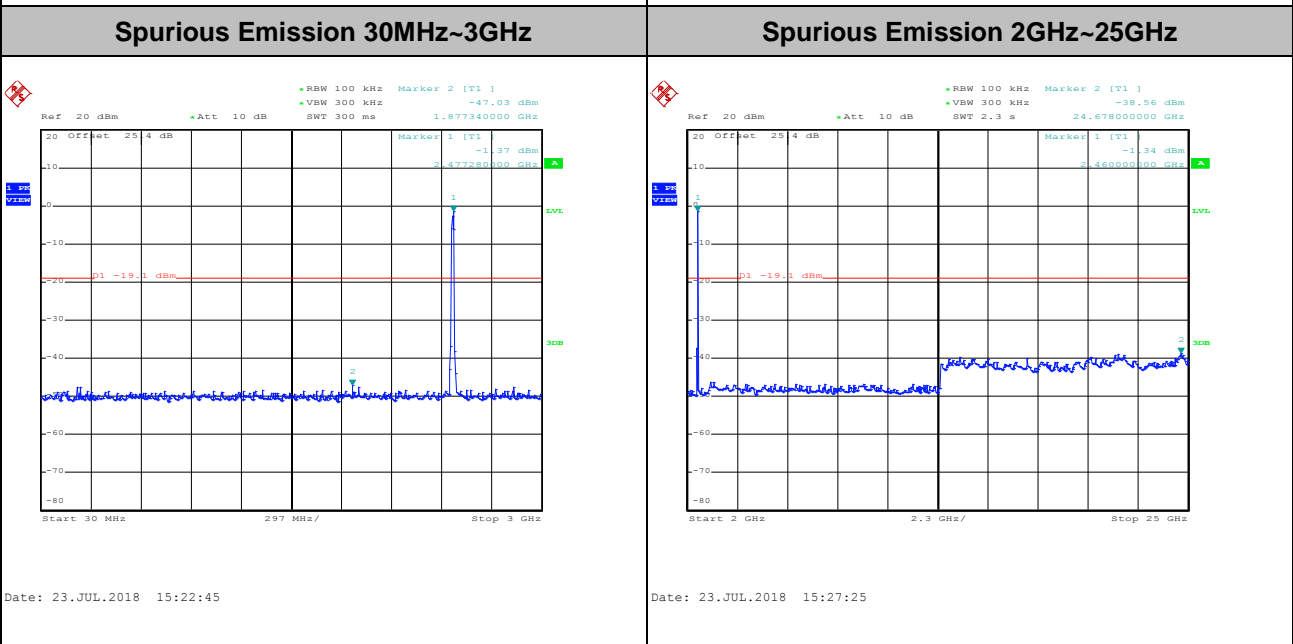
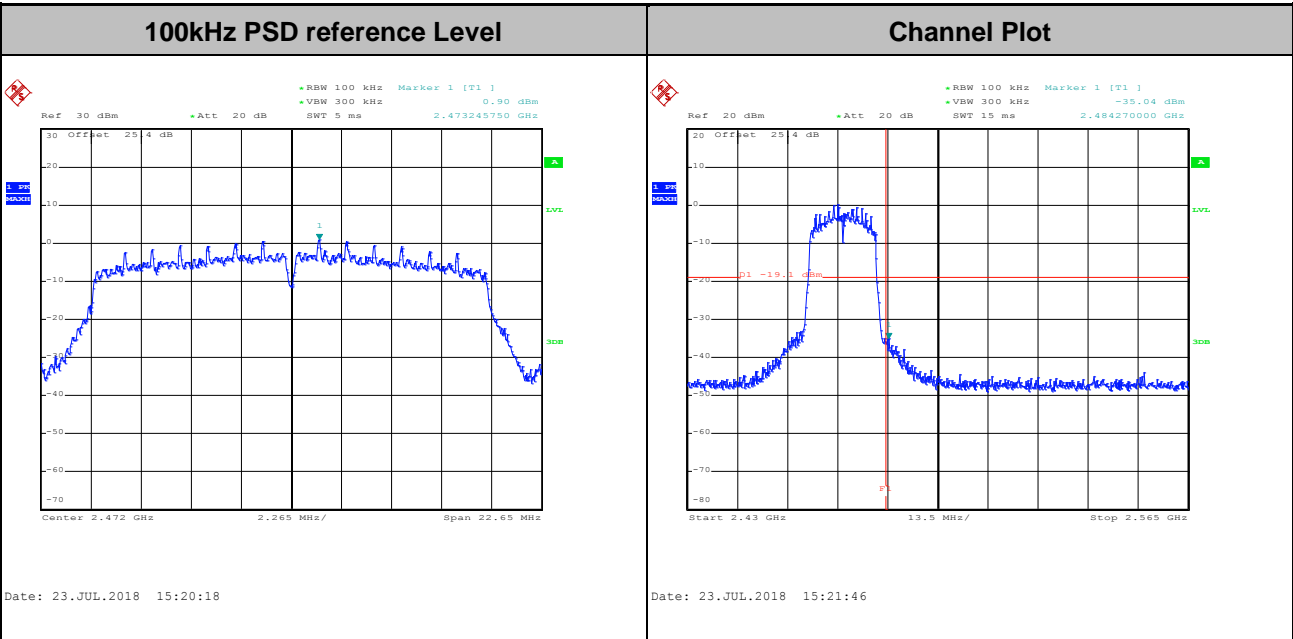


Test Mode :	802.11n HT20	Test Channel :	12
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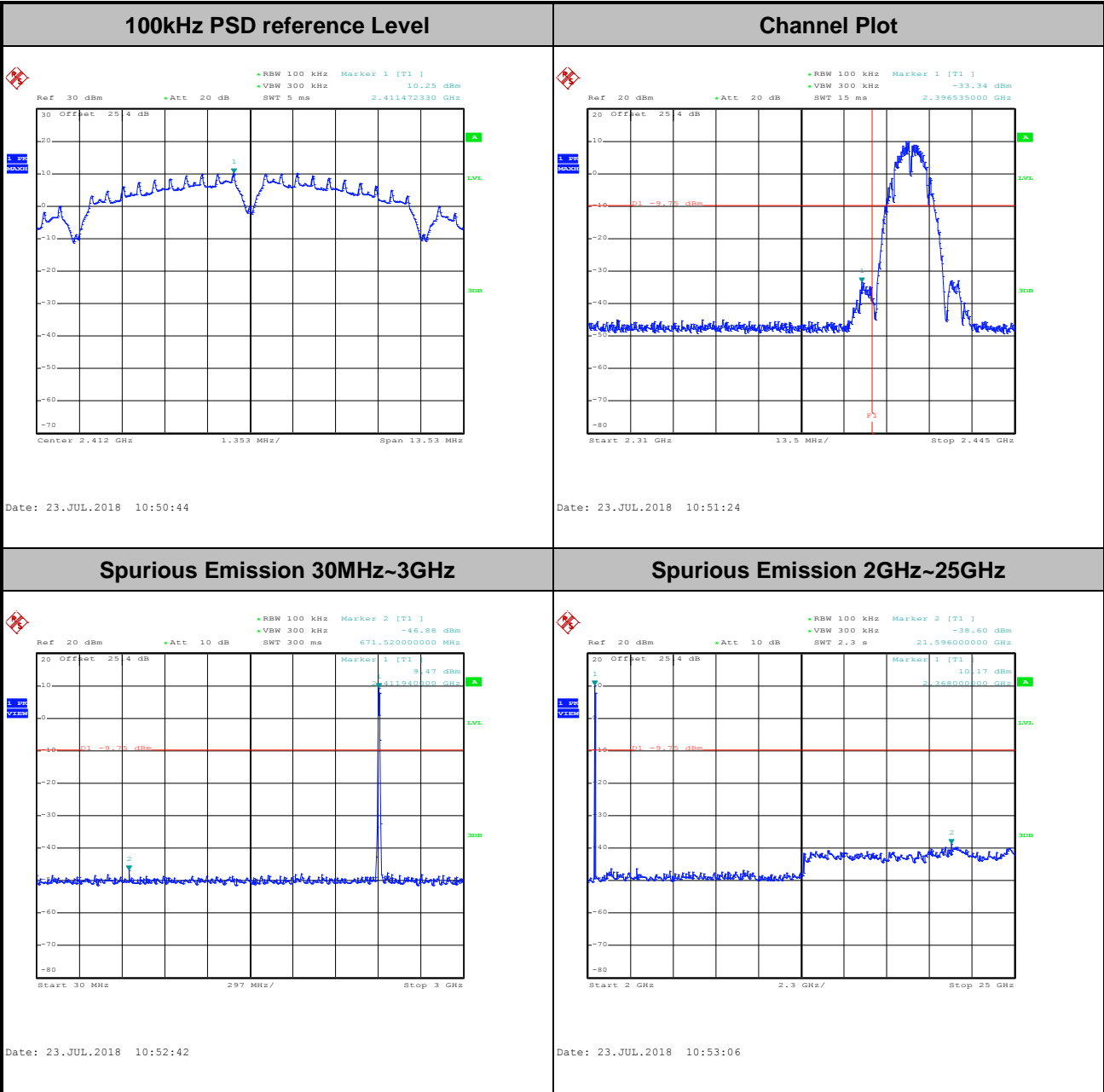
Test Mode :	802.11n HT20	Test Channel :	13
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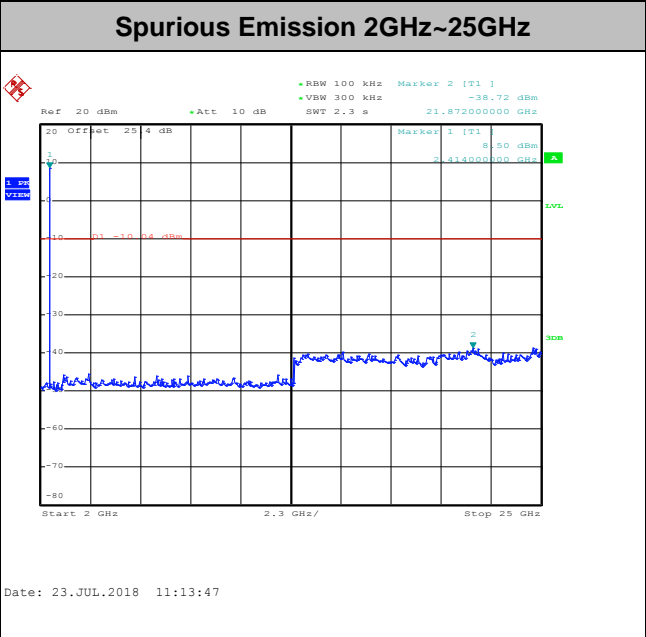
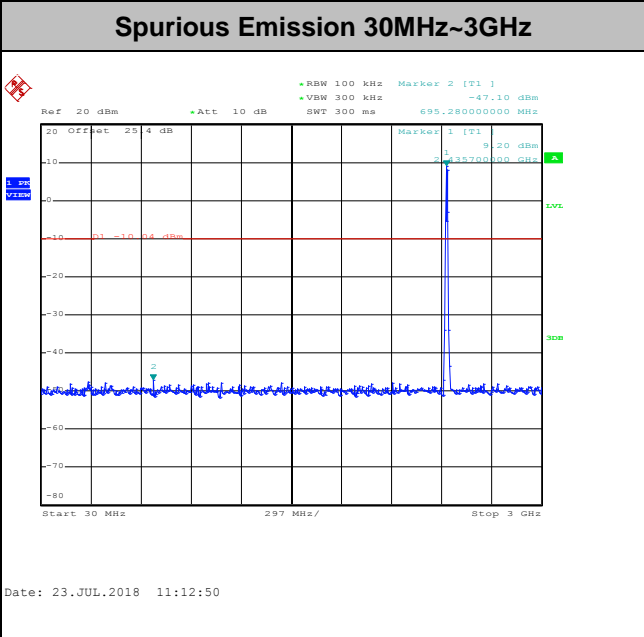
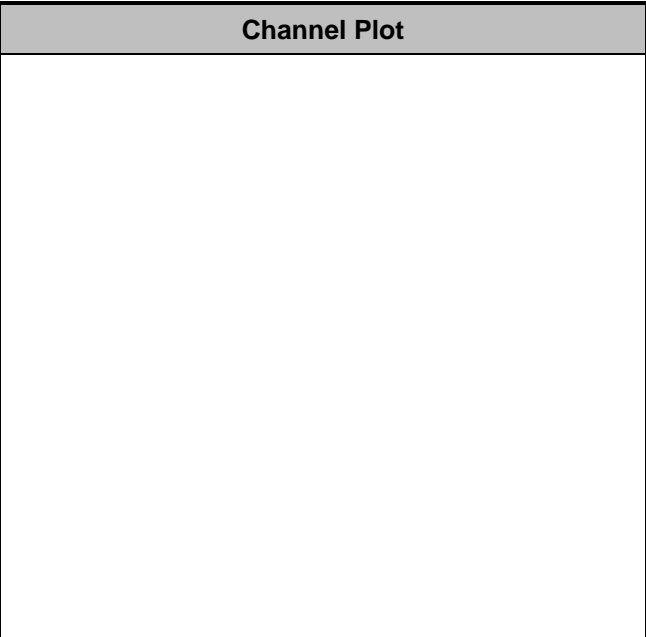
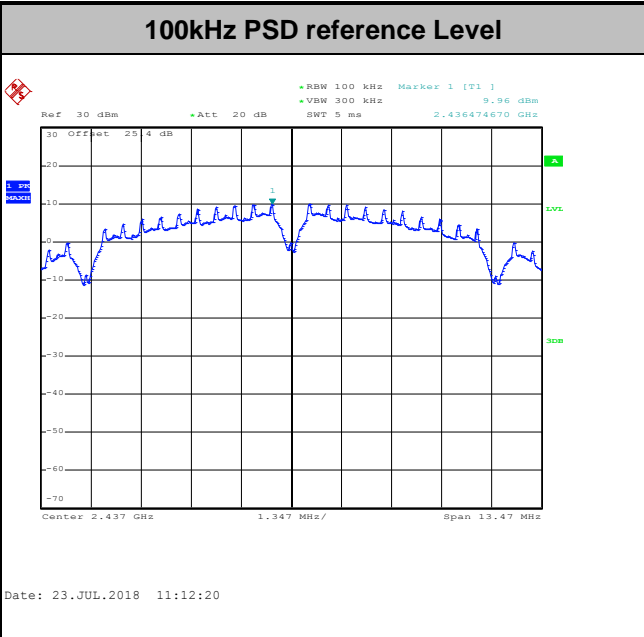
Number of TX = 2, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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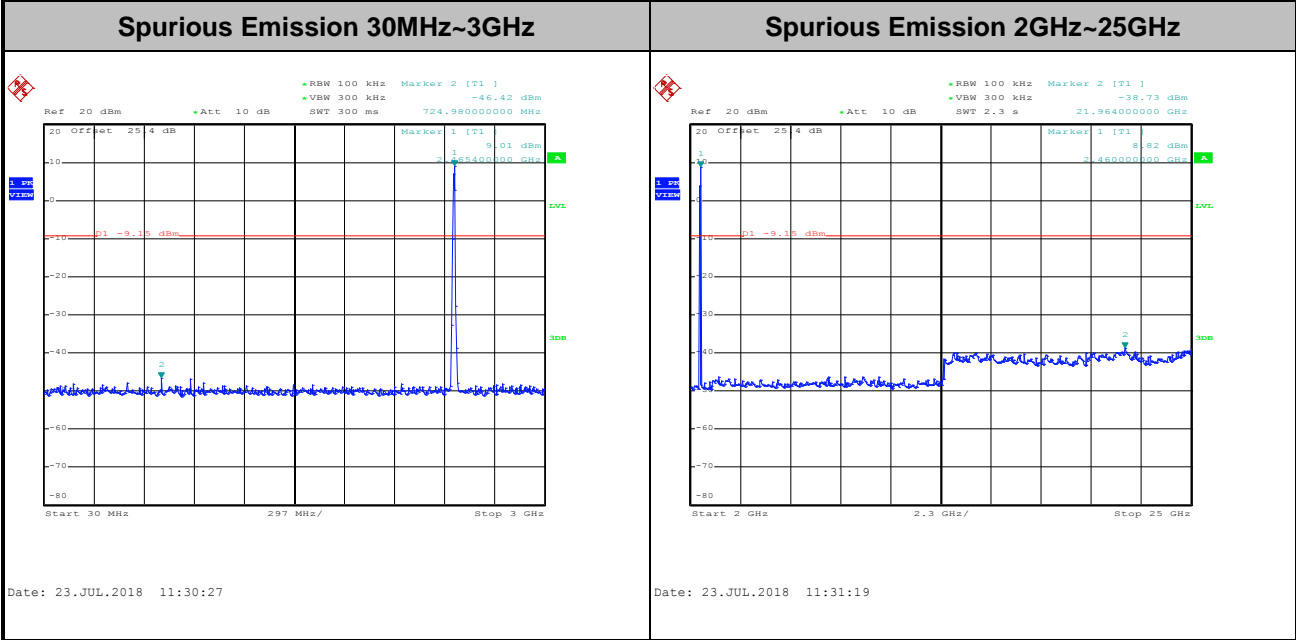
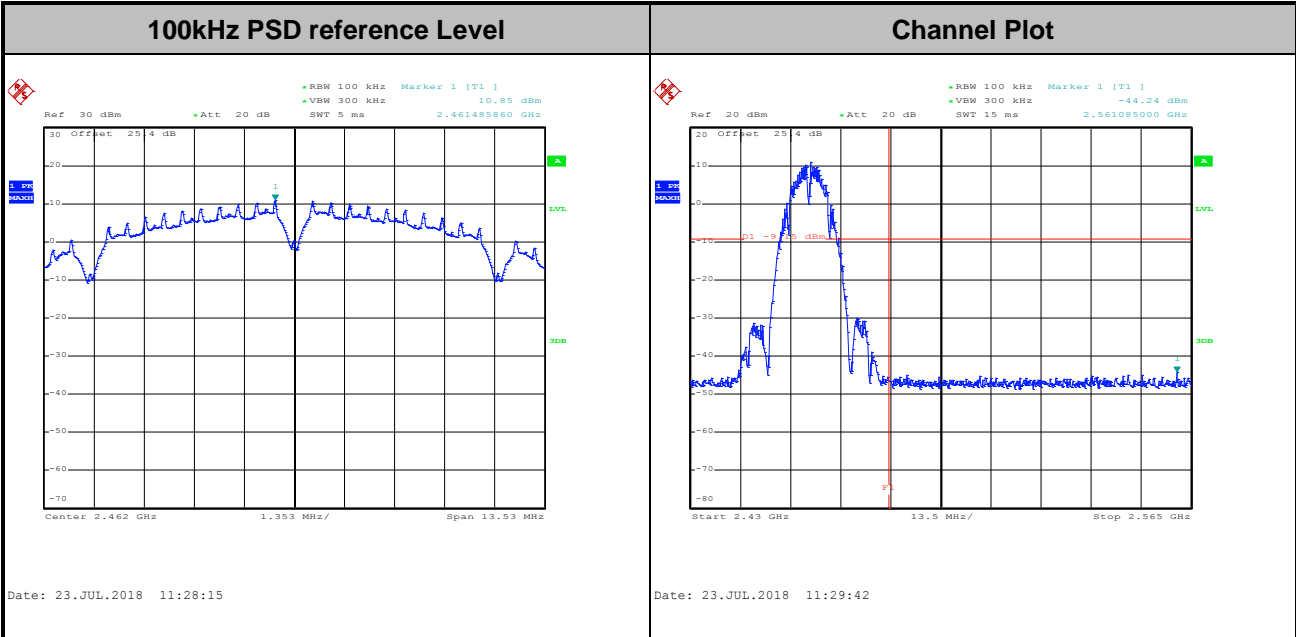


Test Mode :	802.11b	Test Channel :	06
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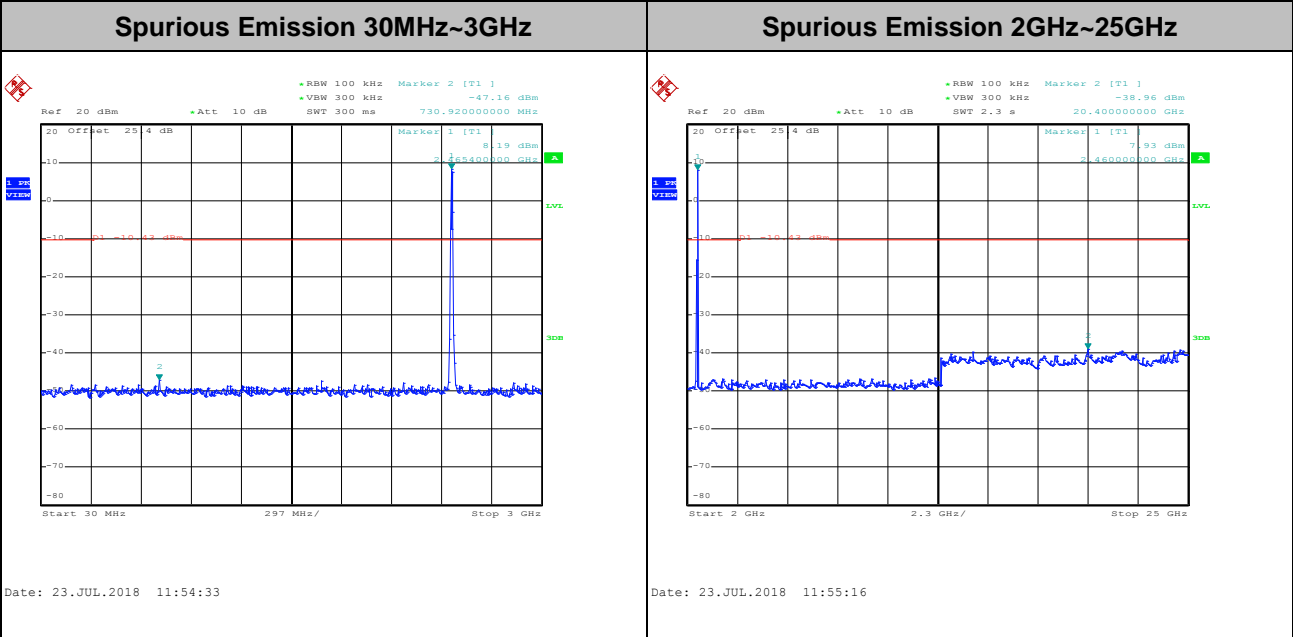
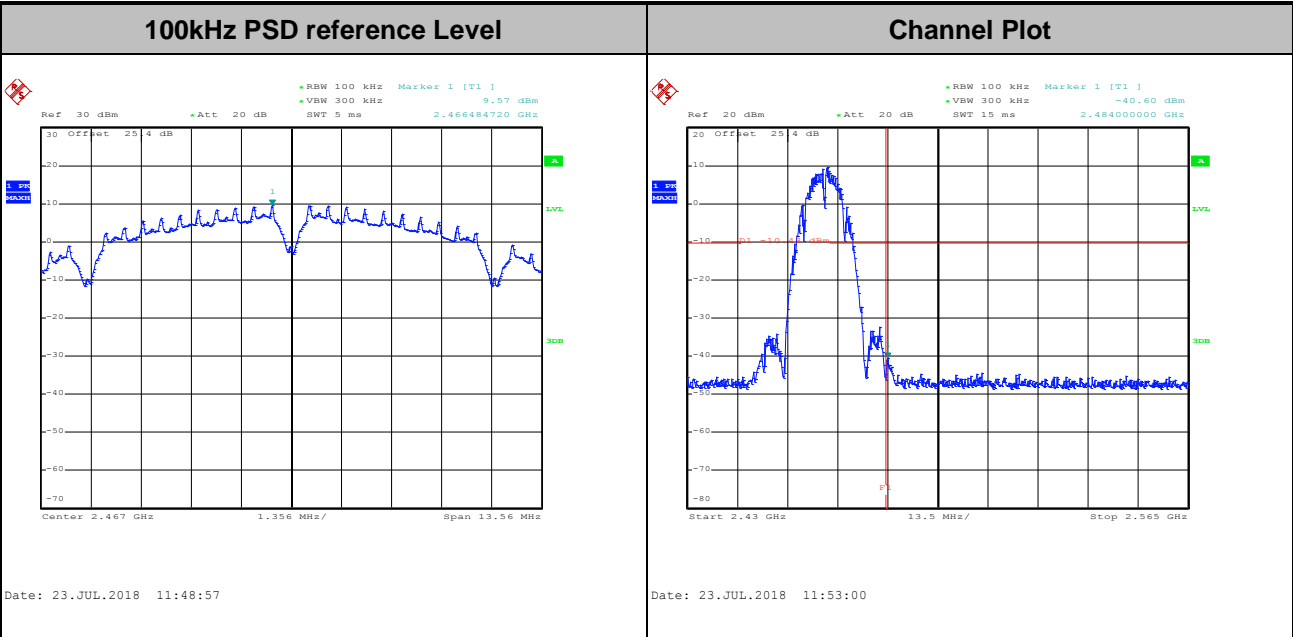


Test Mode :	802.11b	Test Channel :	11
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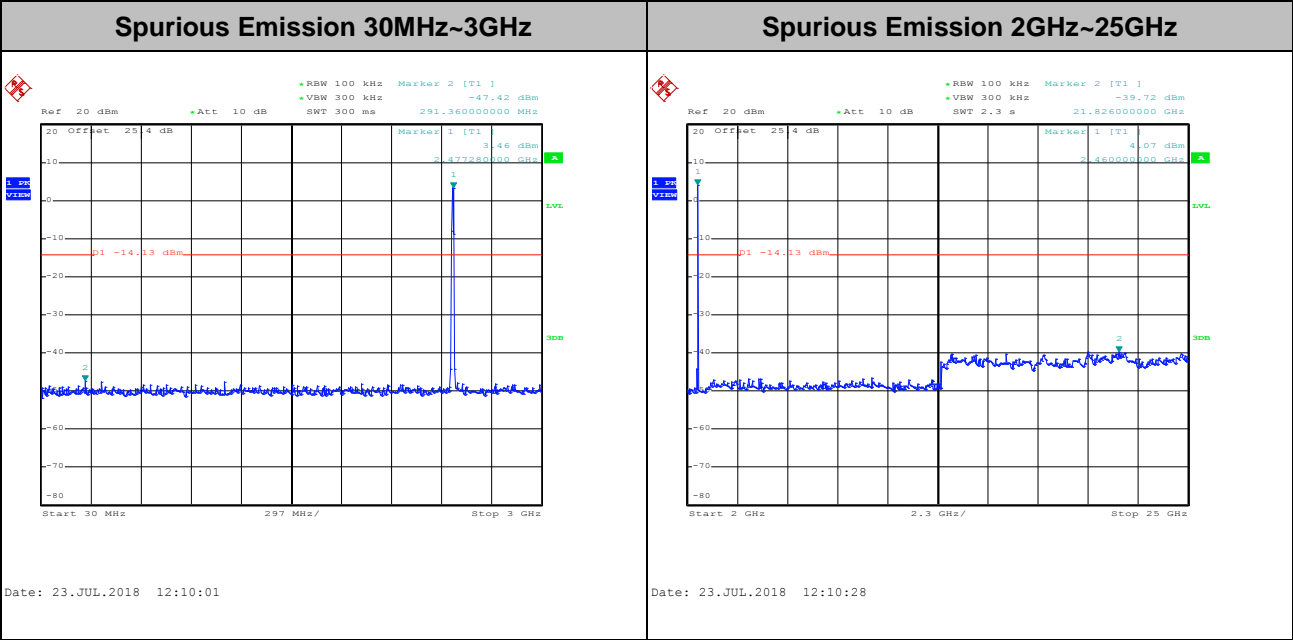
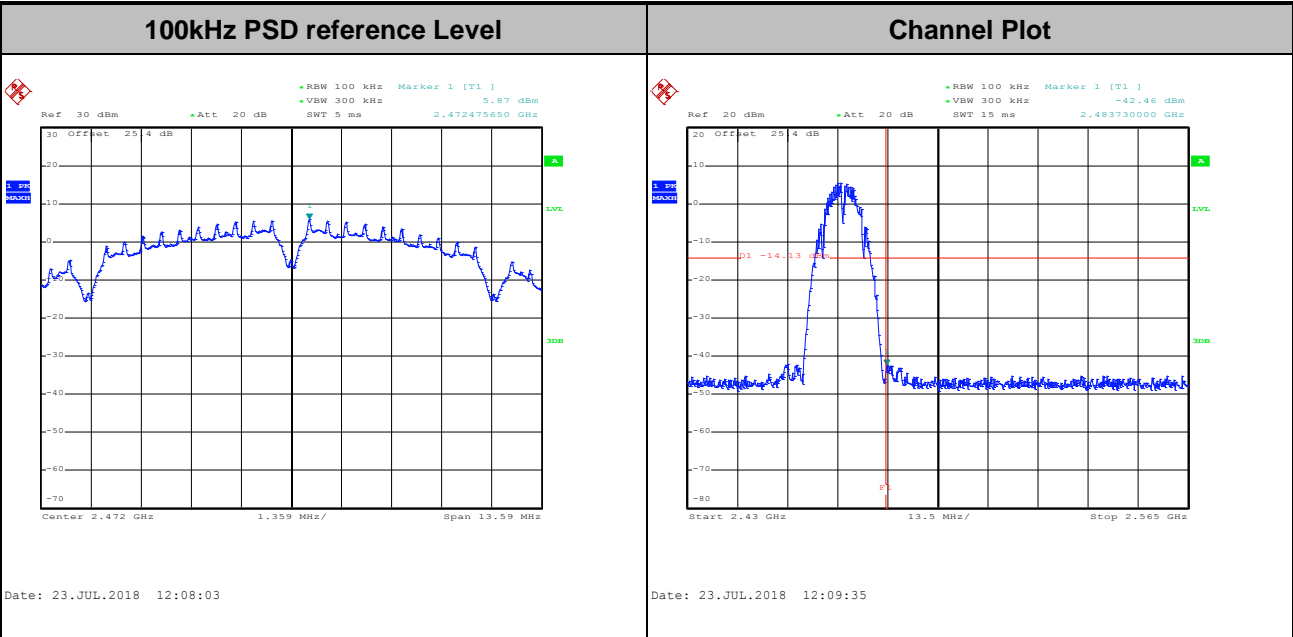


Test Mode :	802.11b	Test Channel :	12
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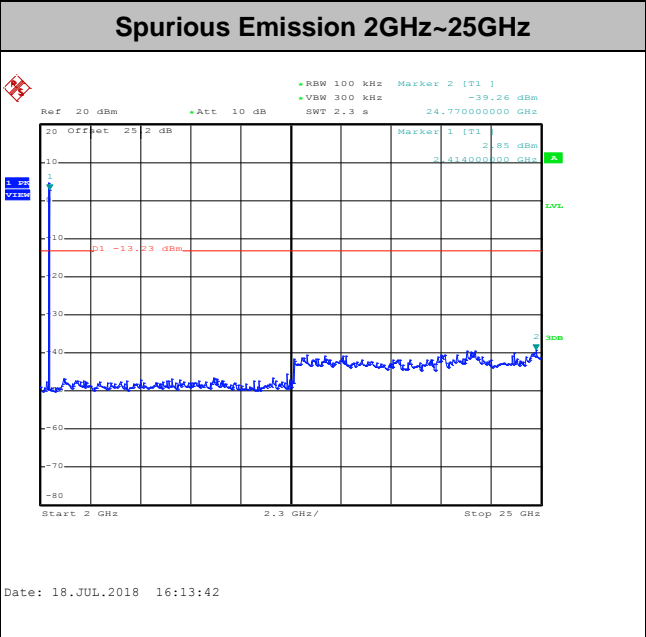
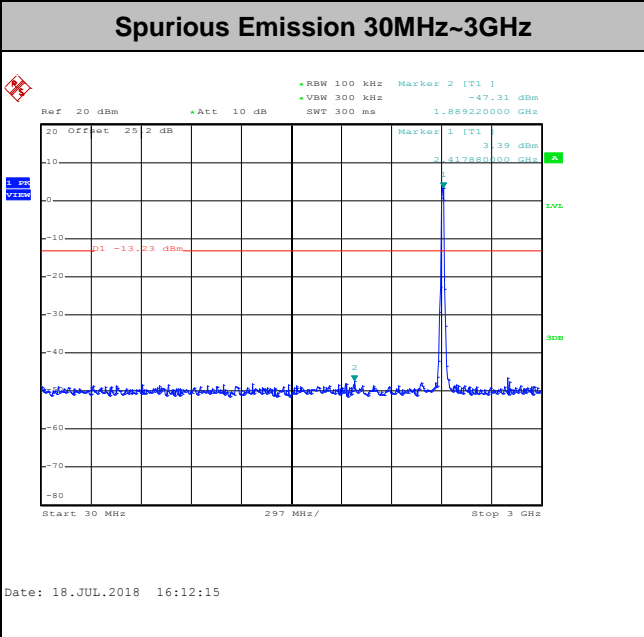
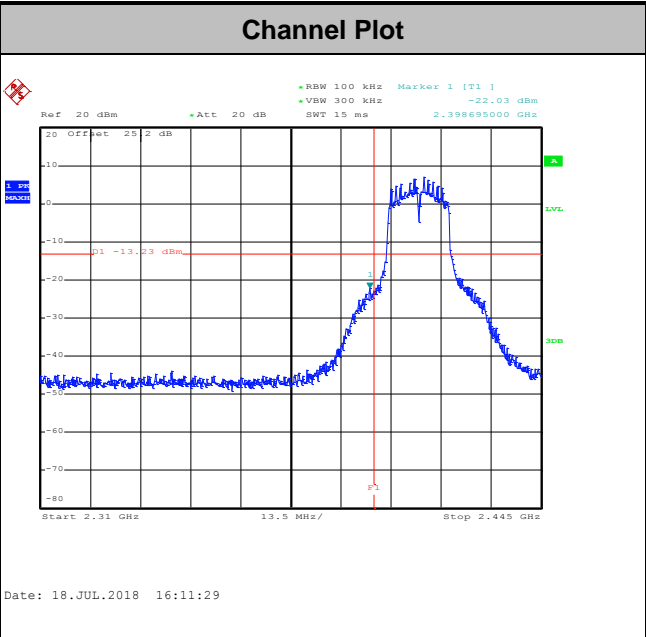
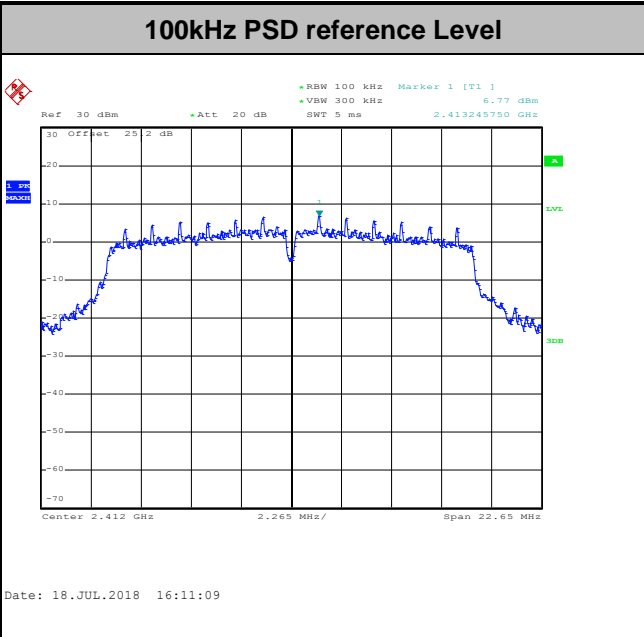


Test Mode :	802.11b	Test Channel :	13
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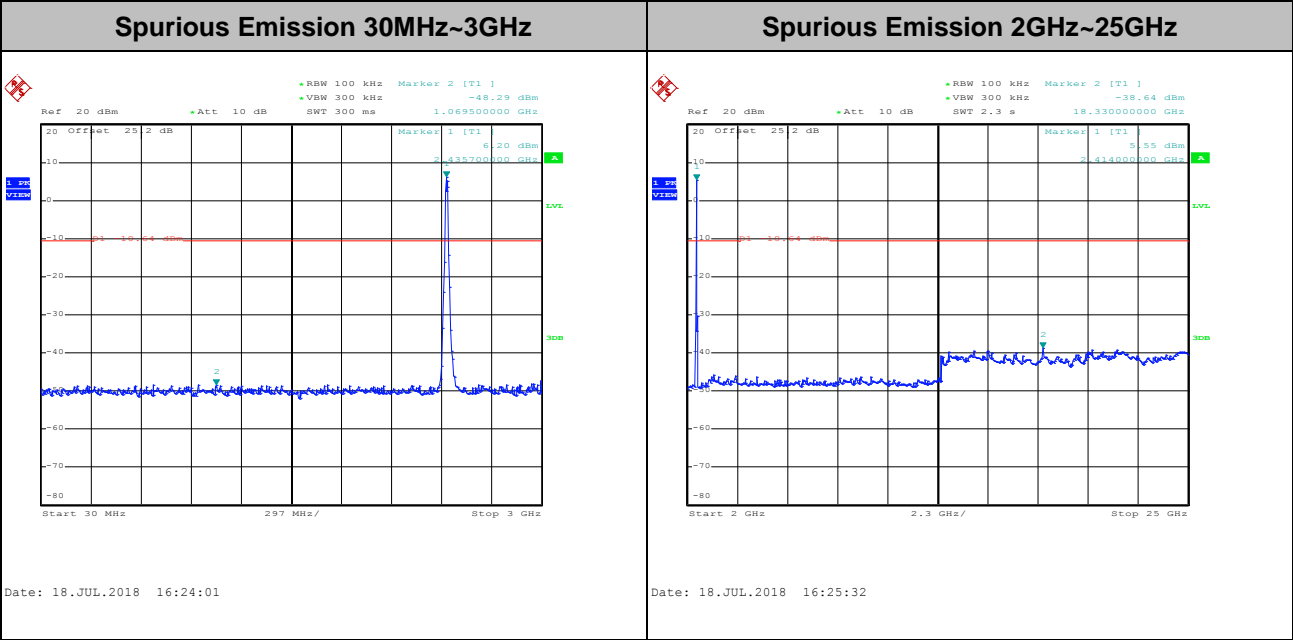
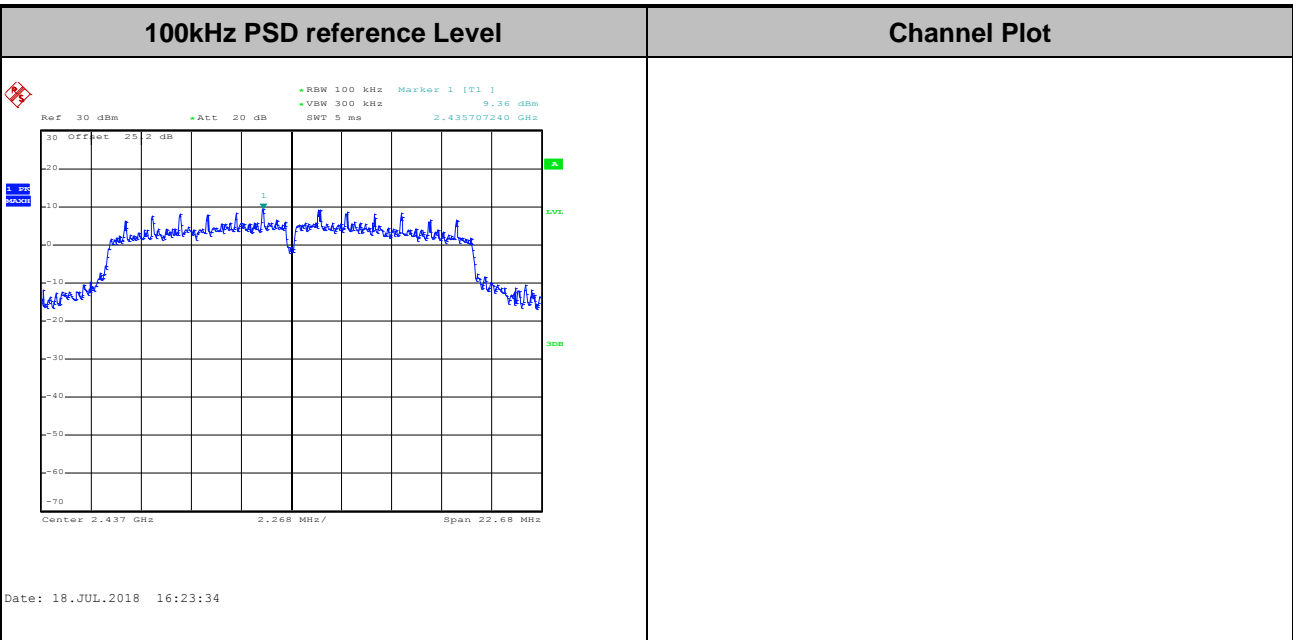


Test Mode :	802.11g	Test Channel :	01
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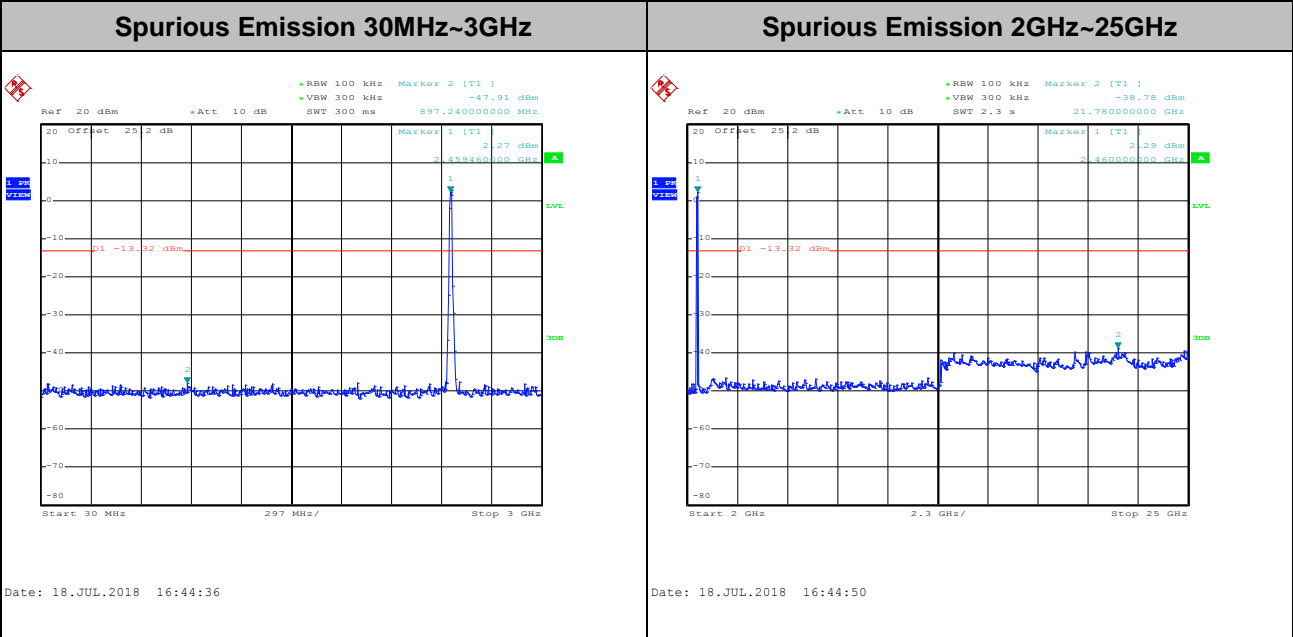
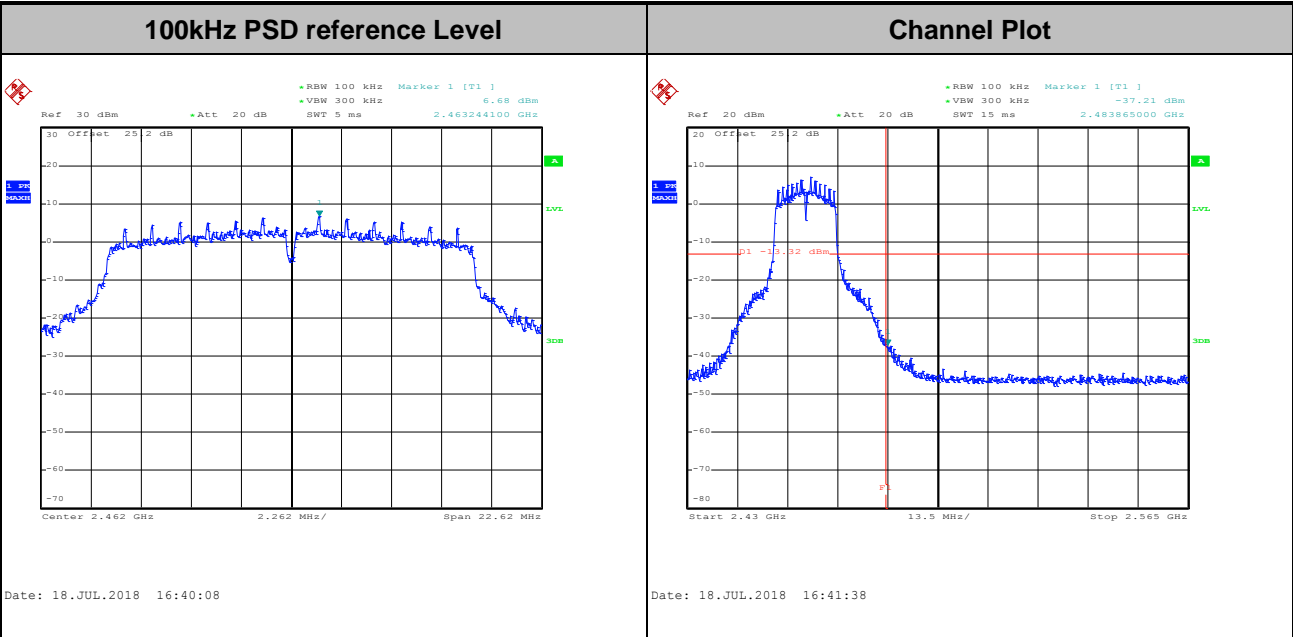


Test Mode :	802.11g	Test Channel :	06
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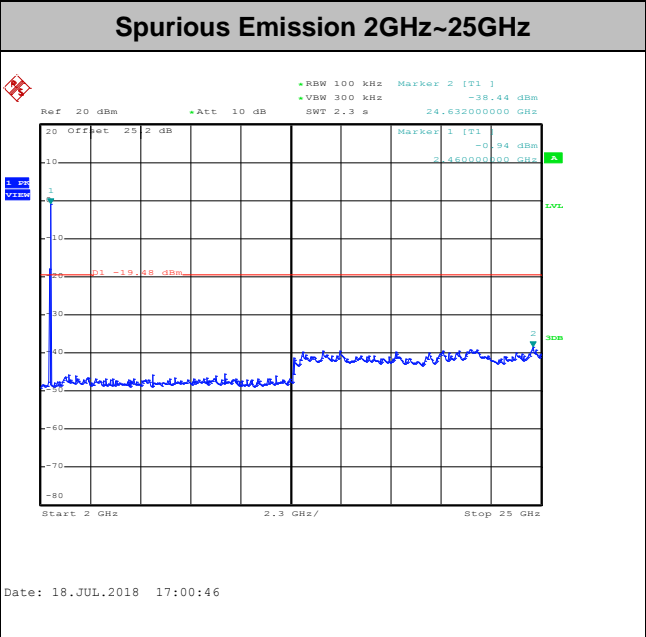
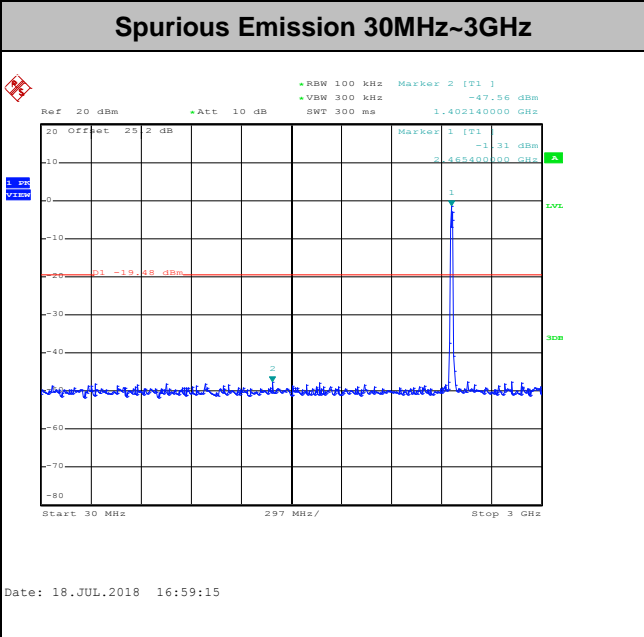
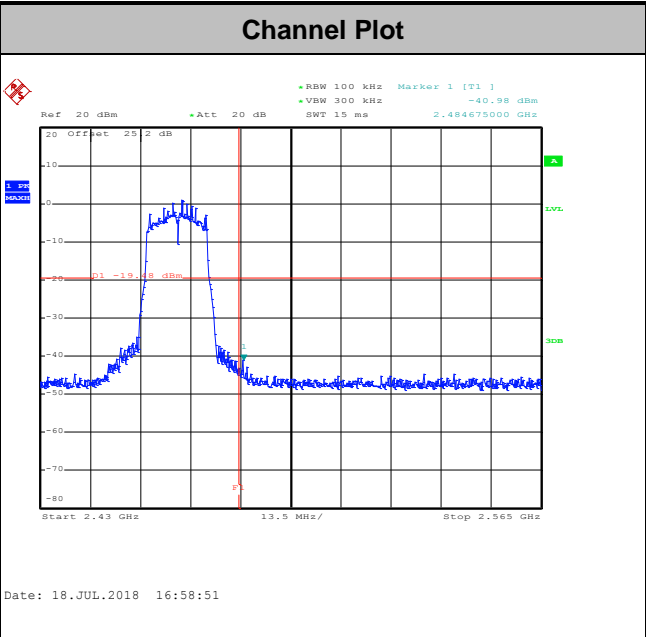
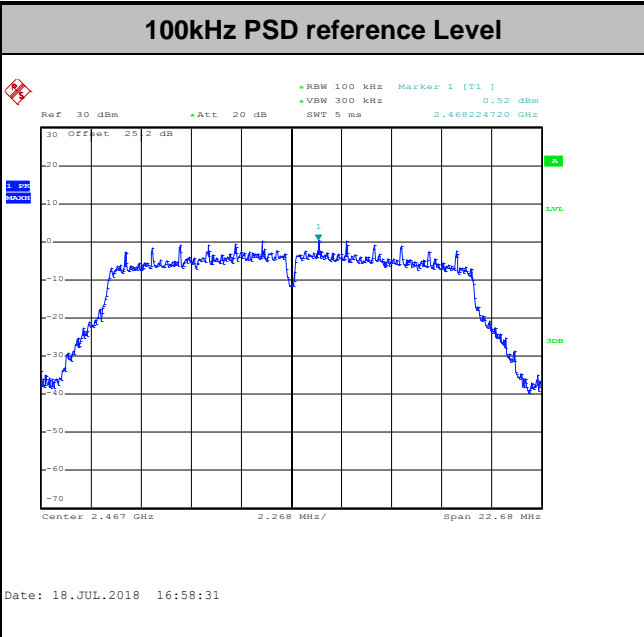


Test Mode :	802.11g	Test Channel :	11
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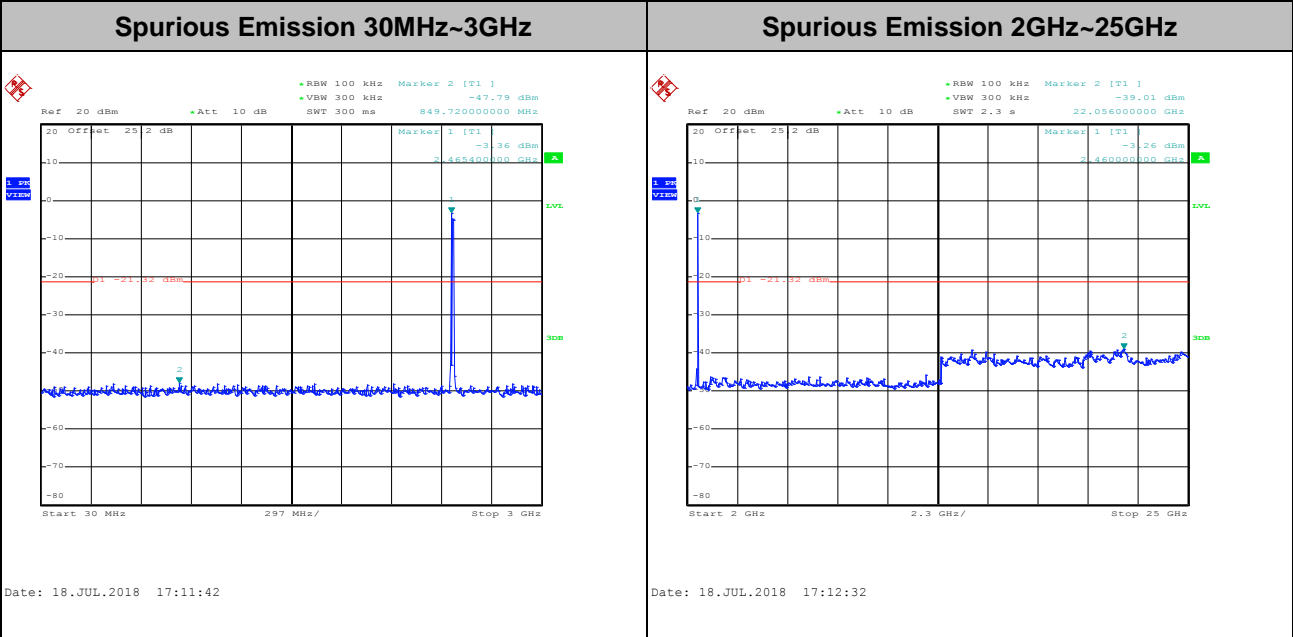
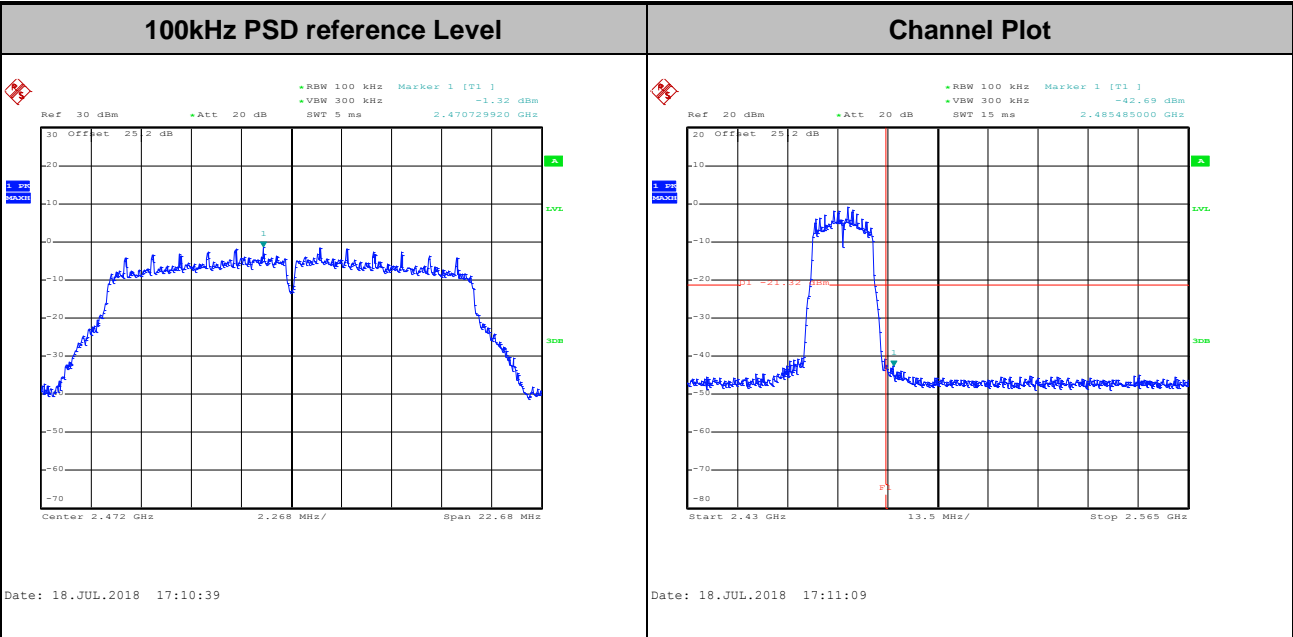


Test Mode :	802.11g	Test Channel :	12
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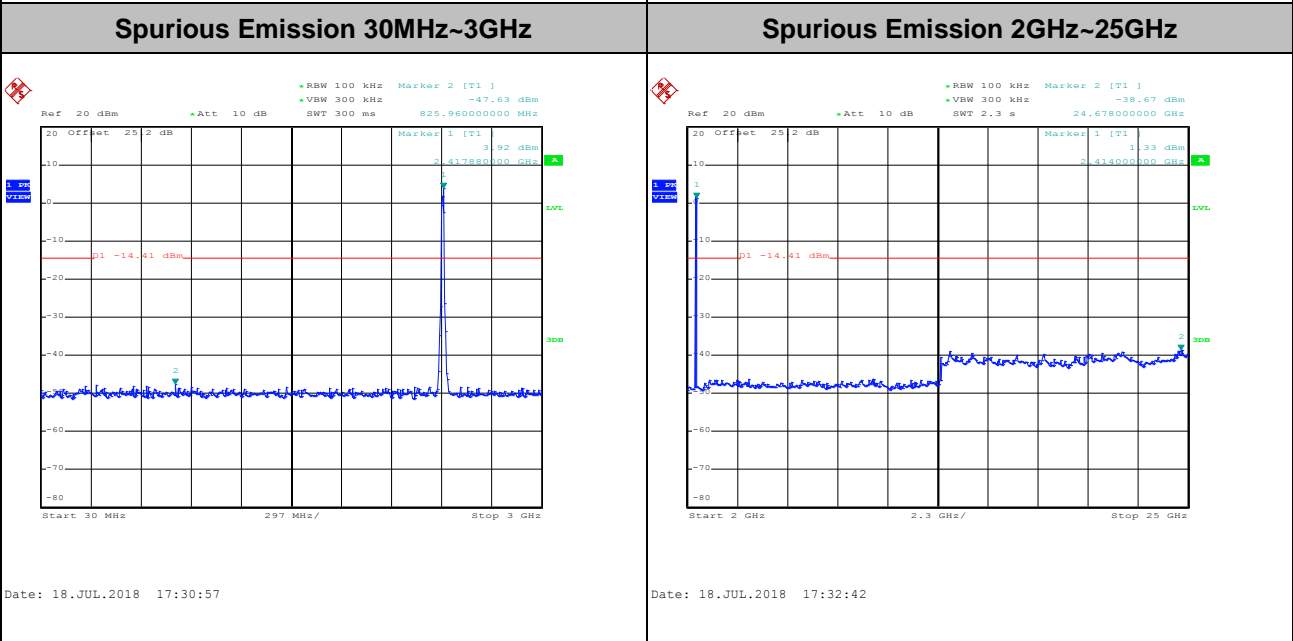
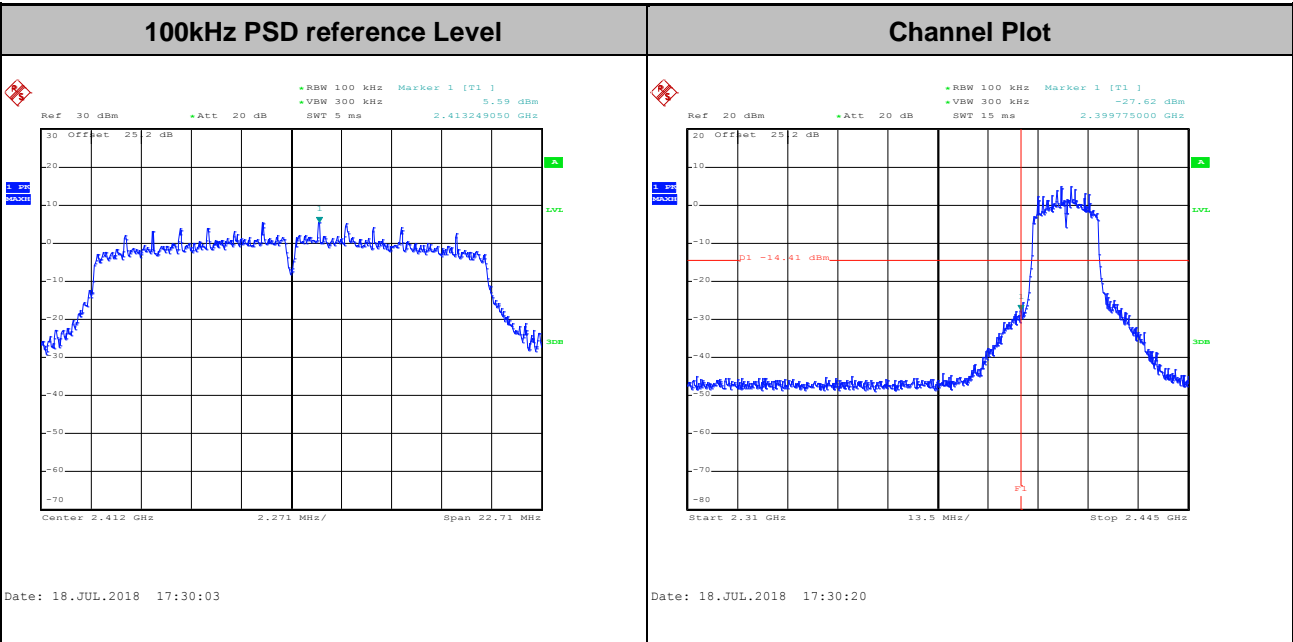


Test Mode :	802.11g	Test Channel :	13
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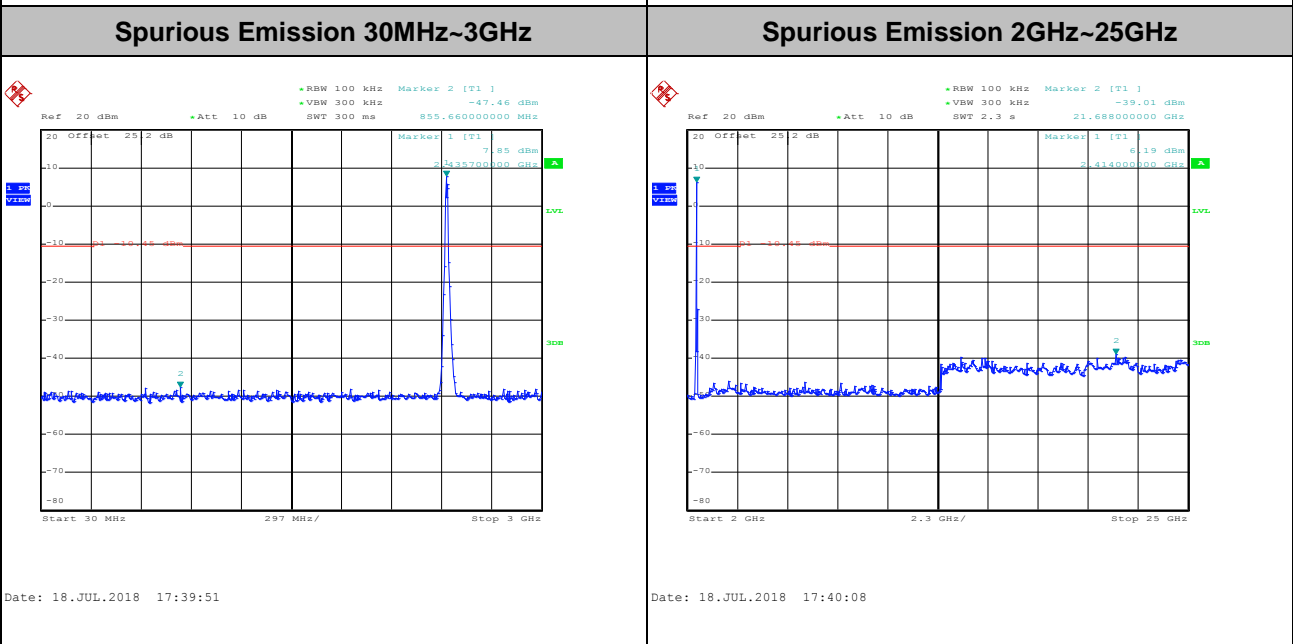
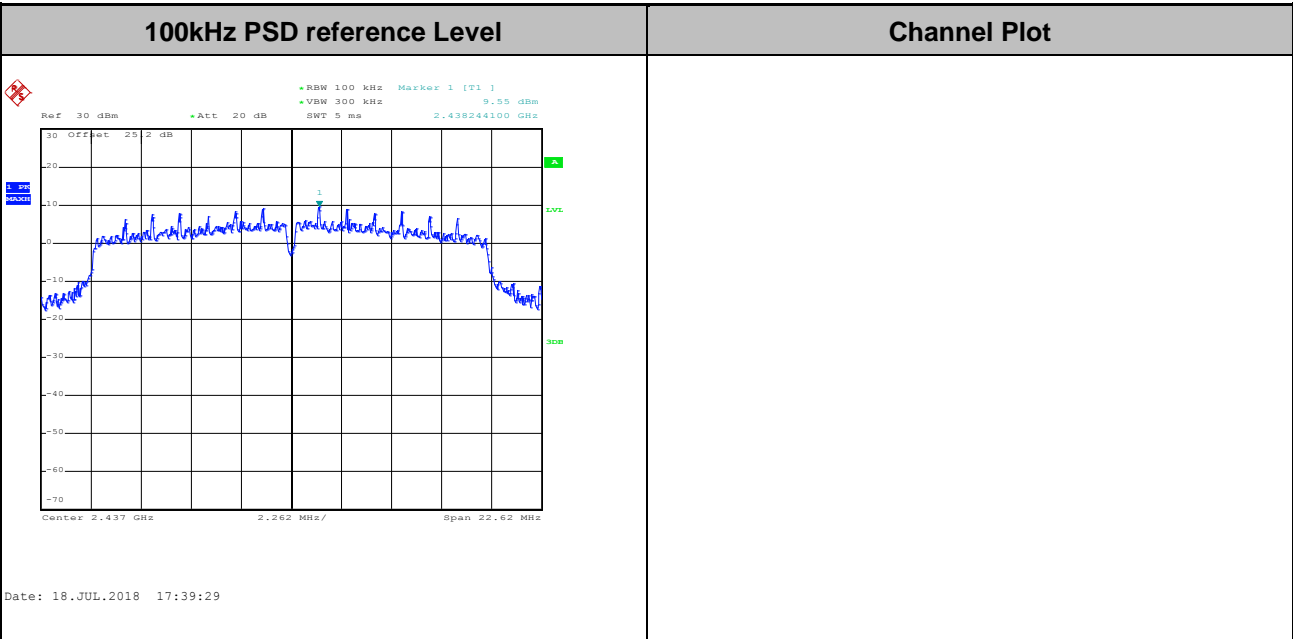


Test Mode :	802.11n HT20	Test Channel :	01
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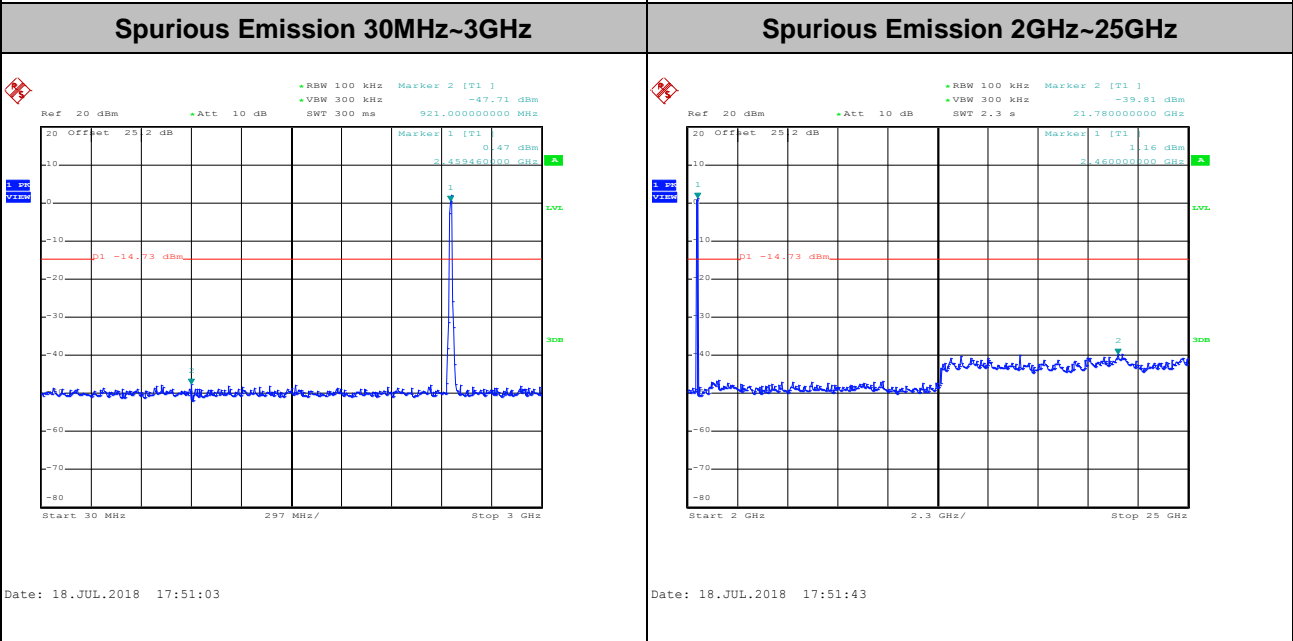
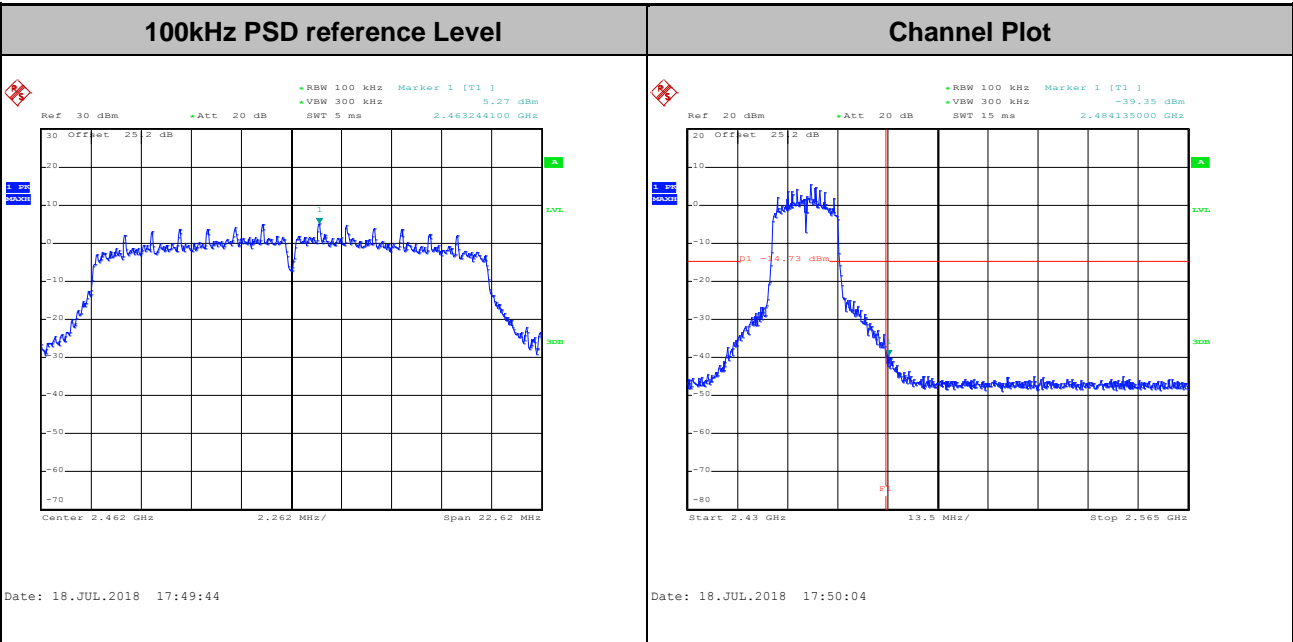


Test Mode :	802.11n HT20	Test Channel :	06
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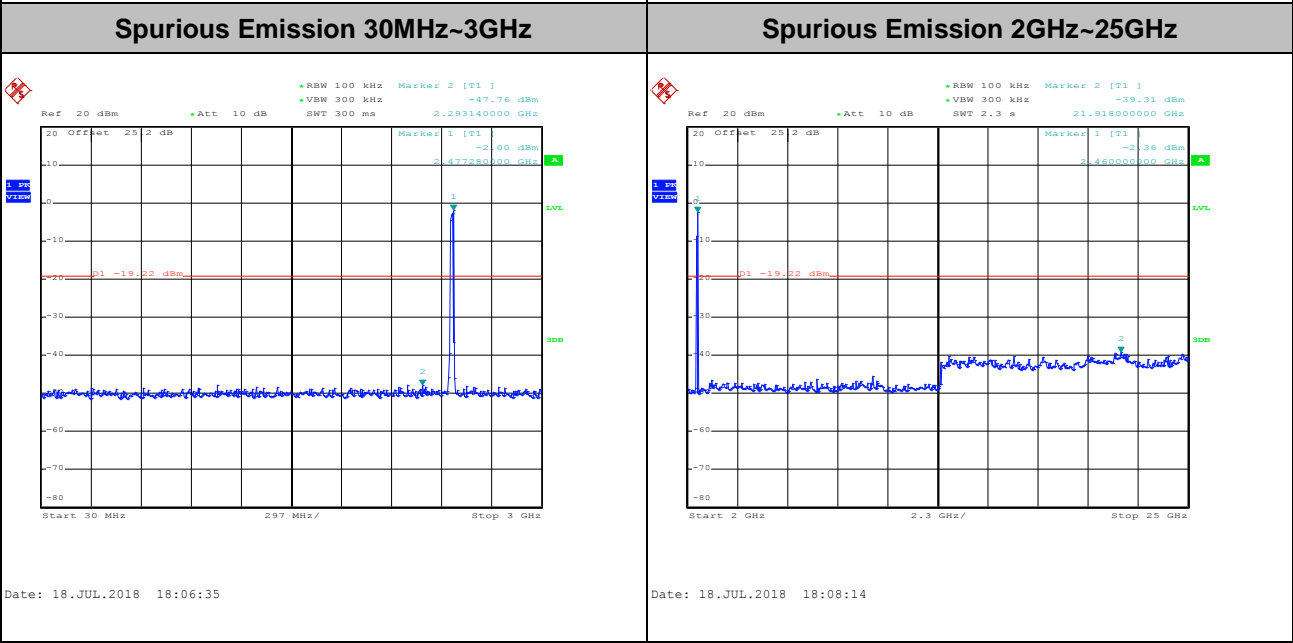
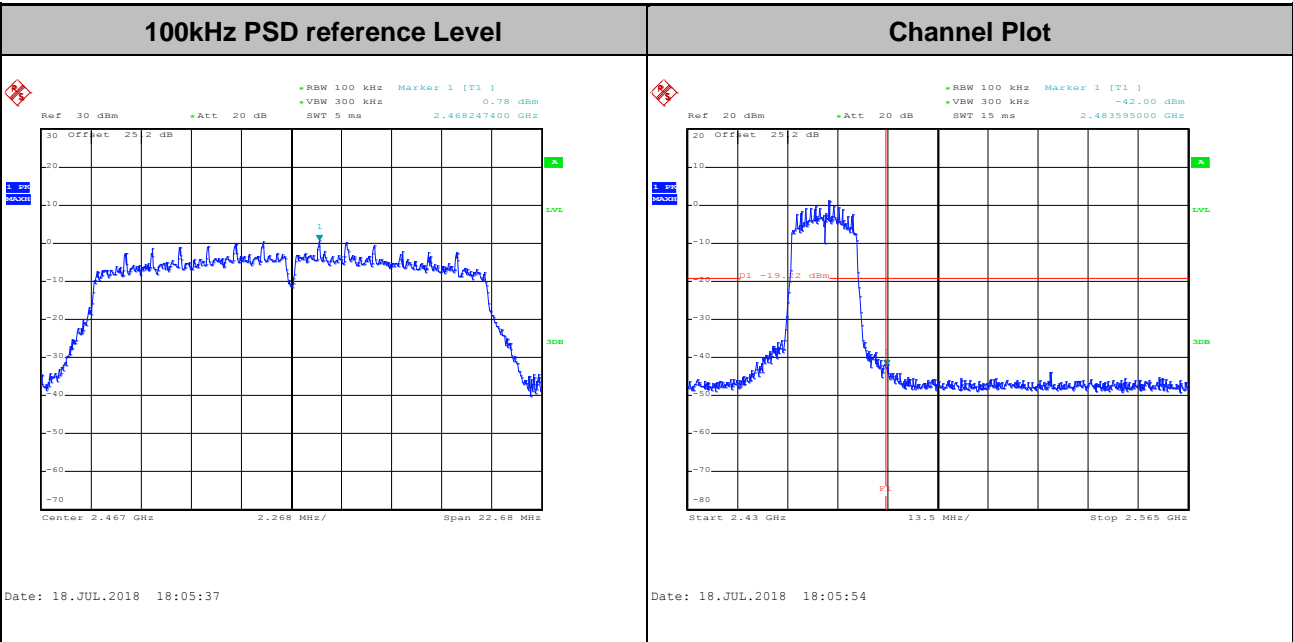


Test Mode :	802.11n HT20	Test Channel :	11
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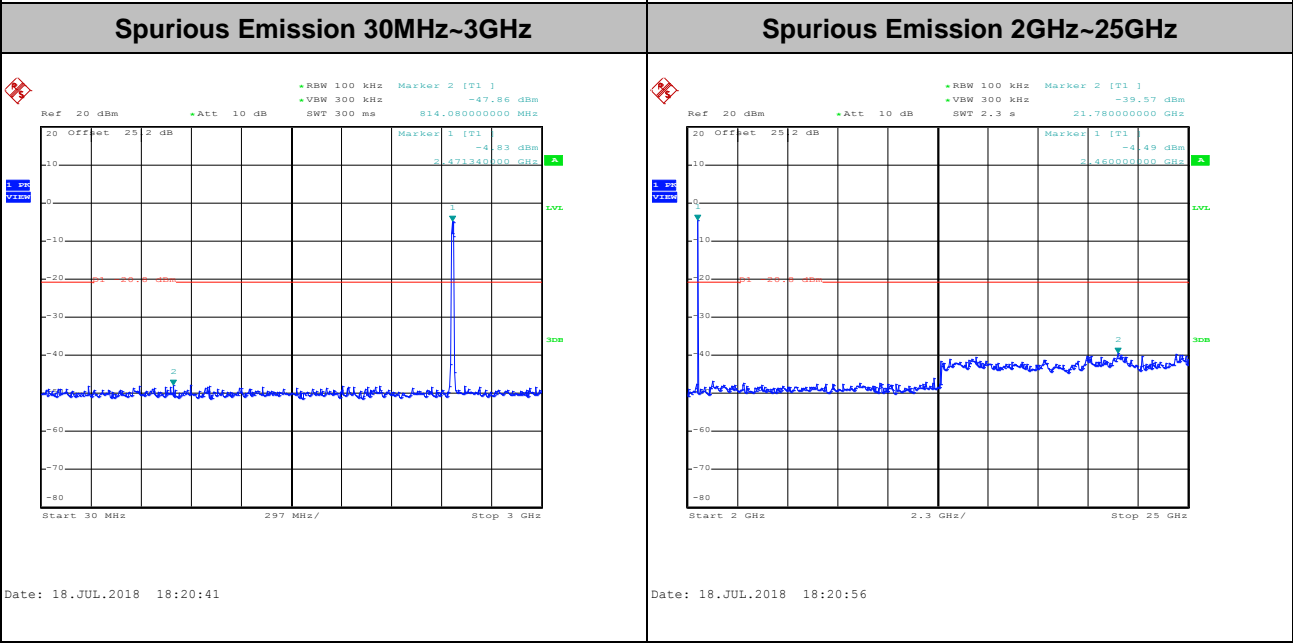
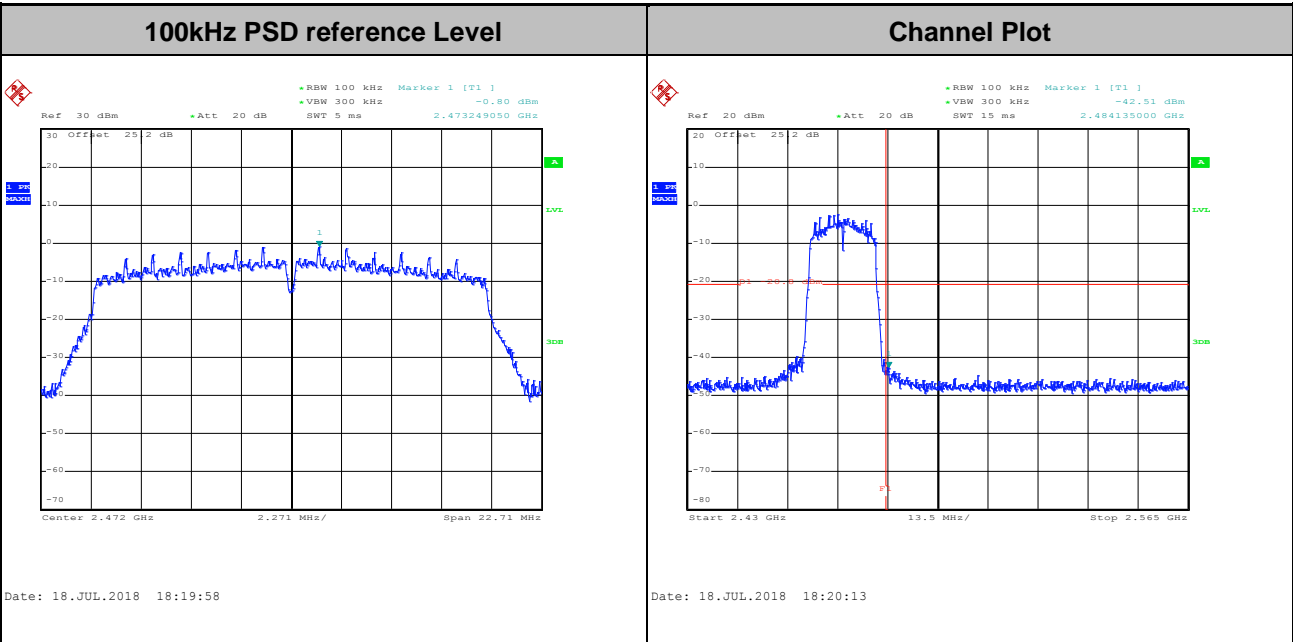


Test Mode :	802.11n HT20	Test Channel :	12
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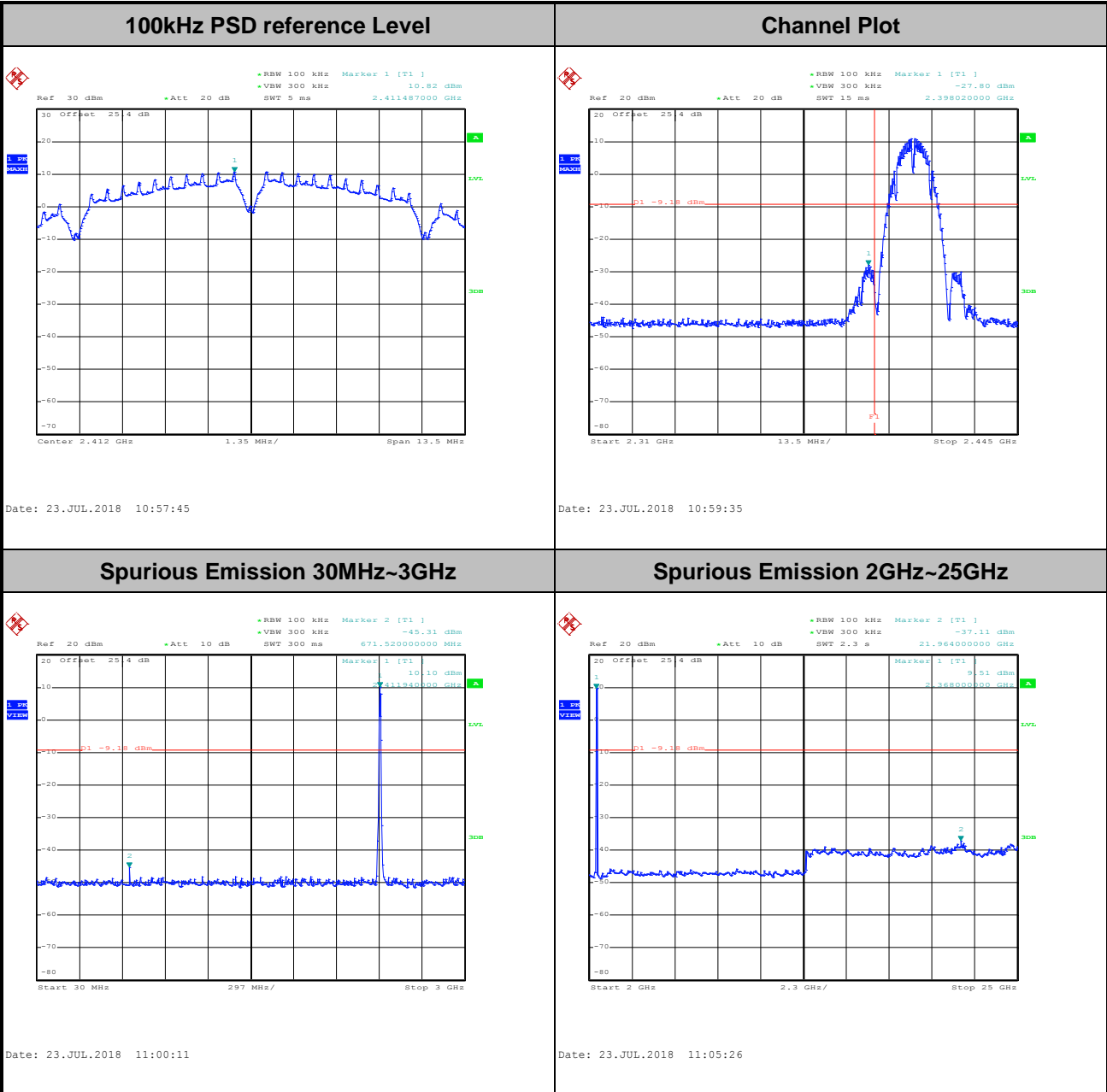
Test Mode :	802.11n HT20	Test Channel :	13
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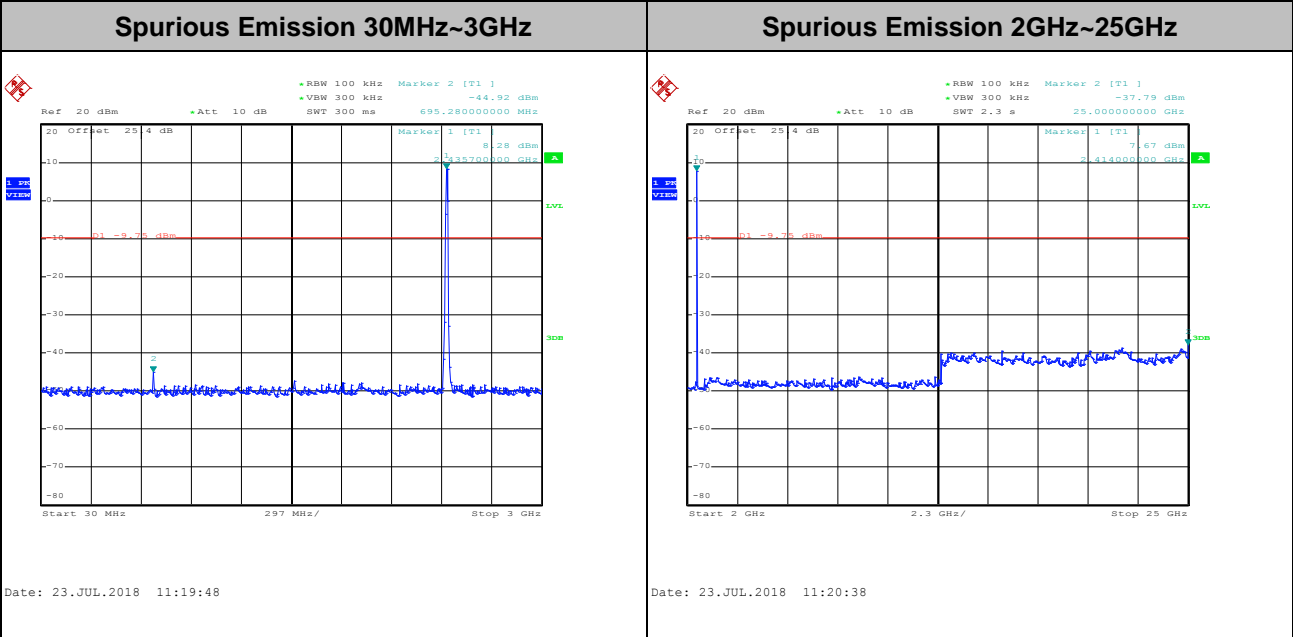
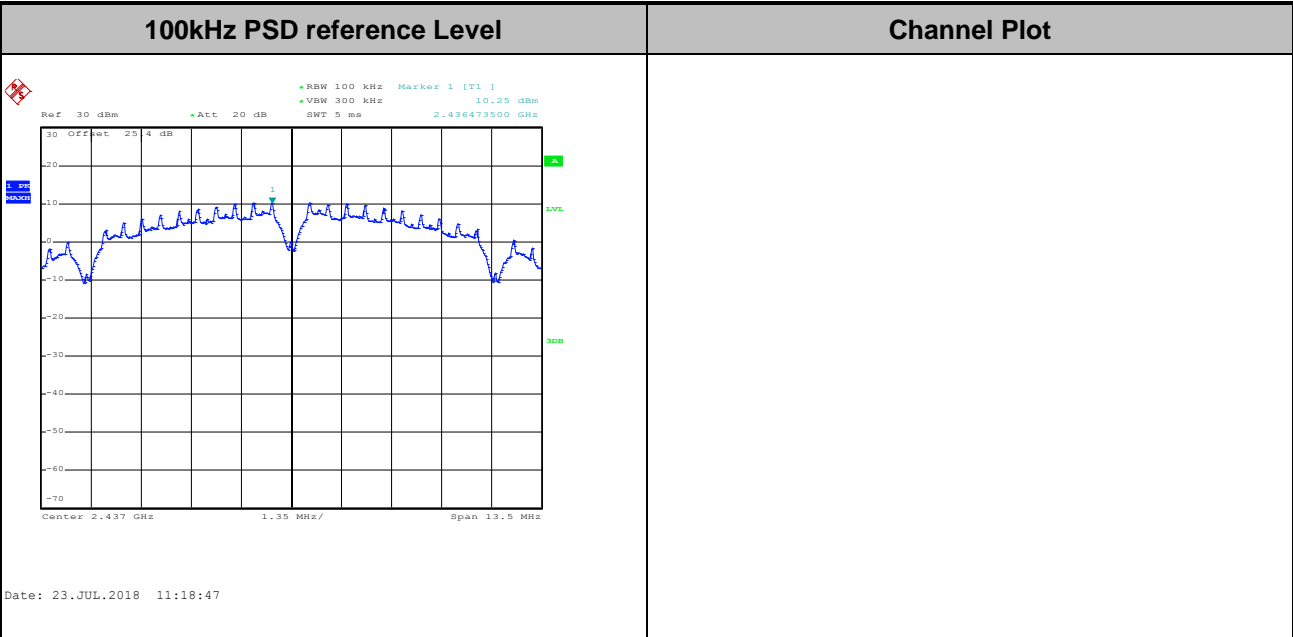
Number of TX = 2, Ant. 2 (Measured)

Test Mode :	802.11b	Test Channel :	01
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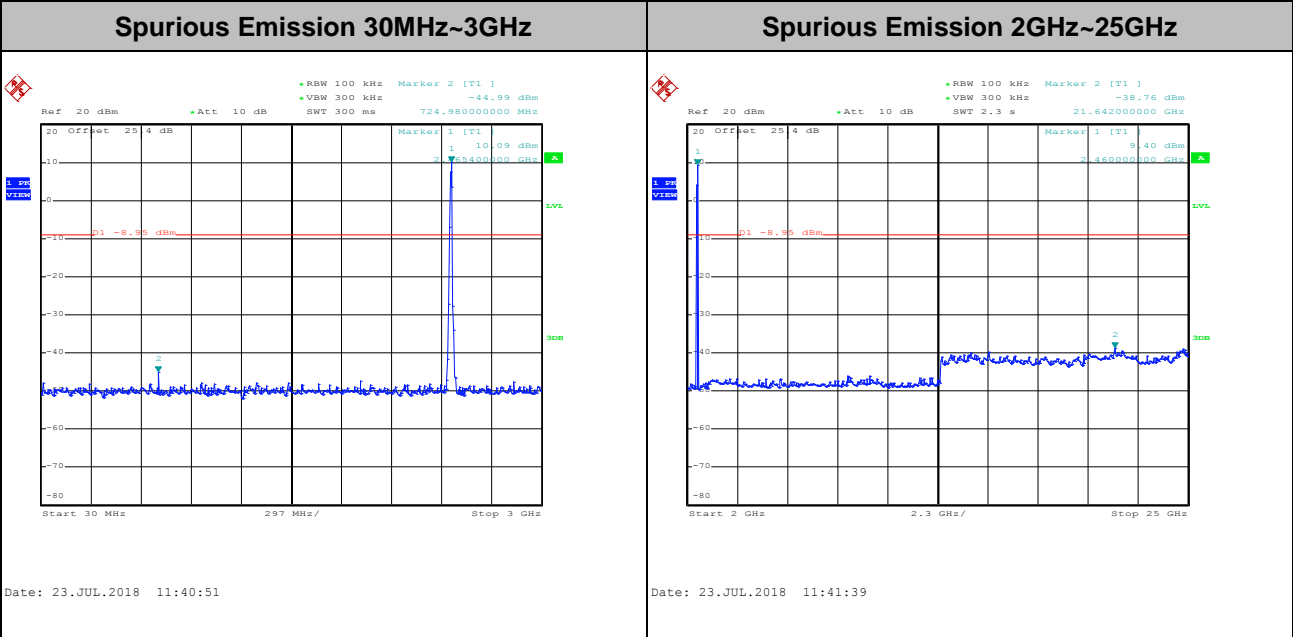
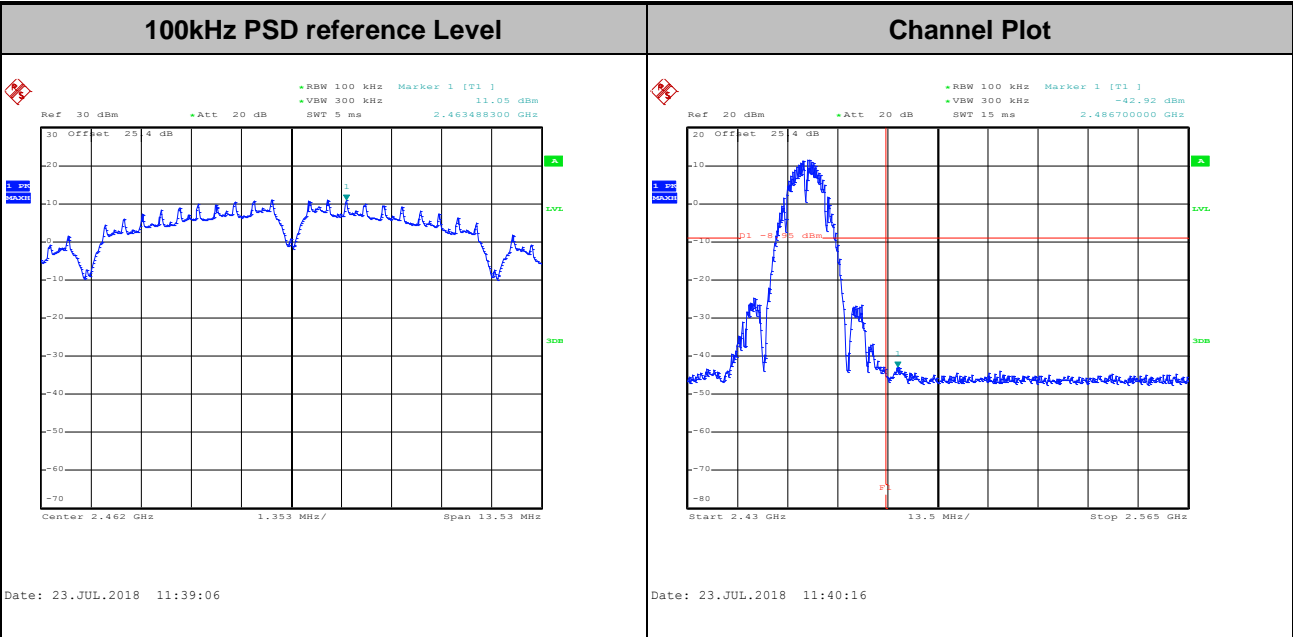


Test Mode :	802.11b	Test Channel :	06
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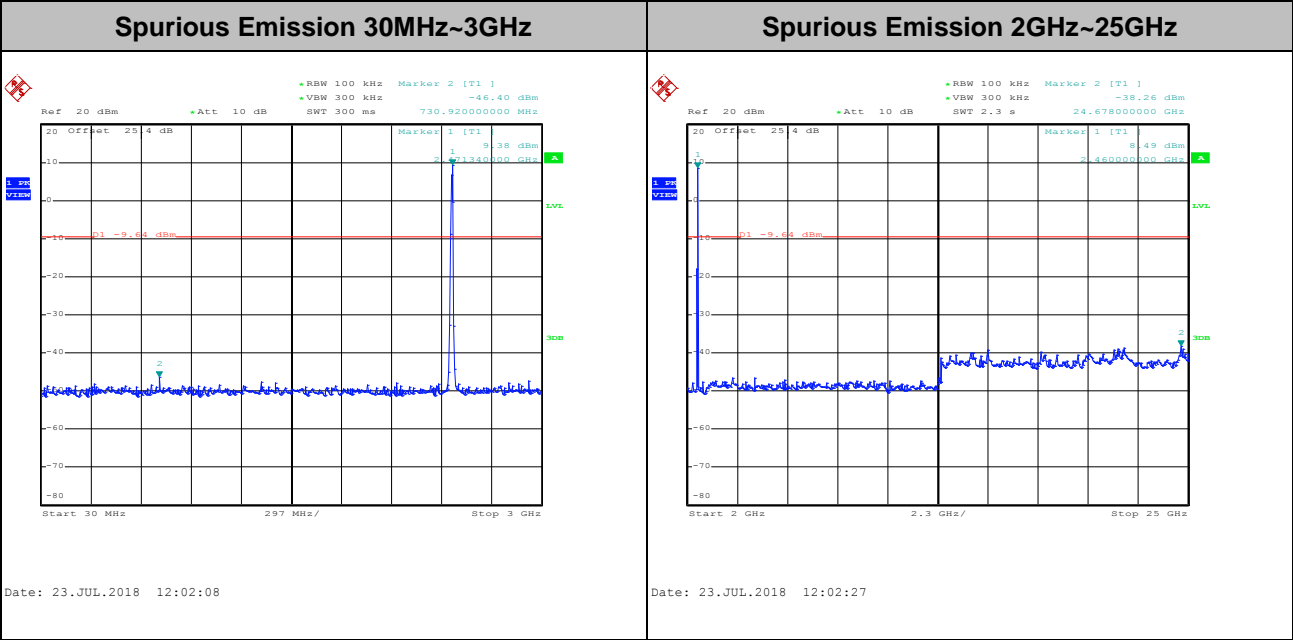
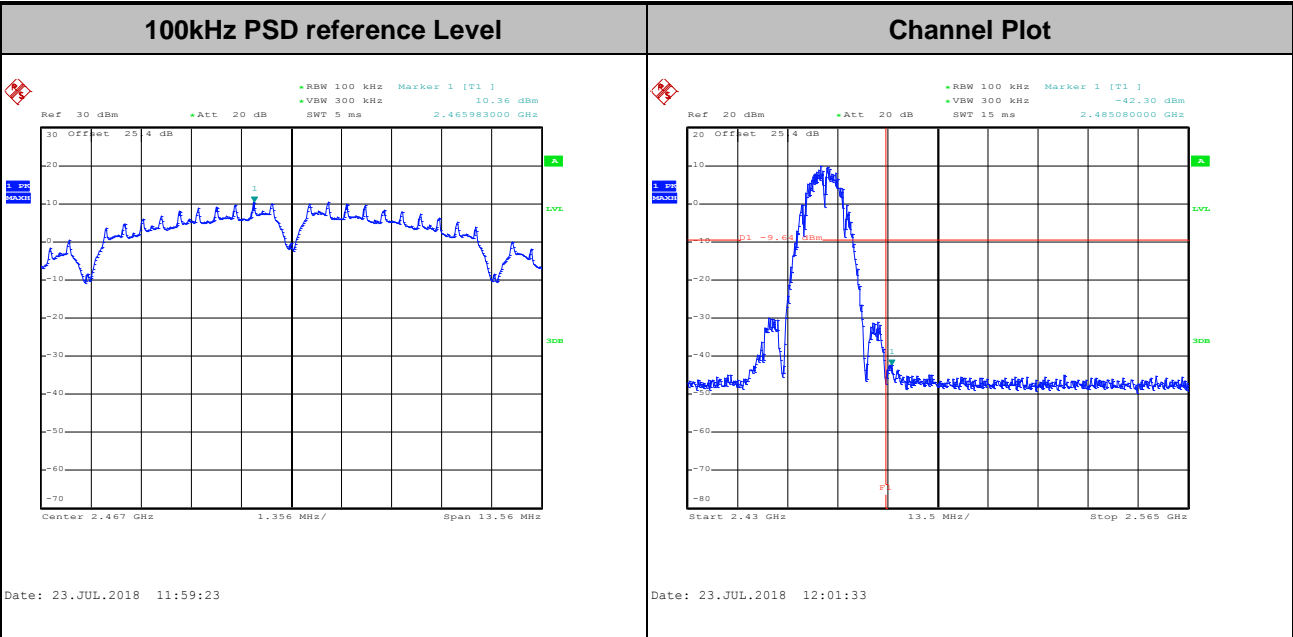


Test Mode :	802.11b	Test Channel :	11
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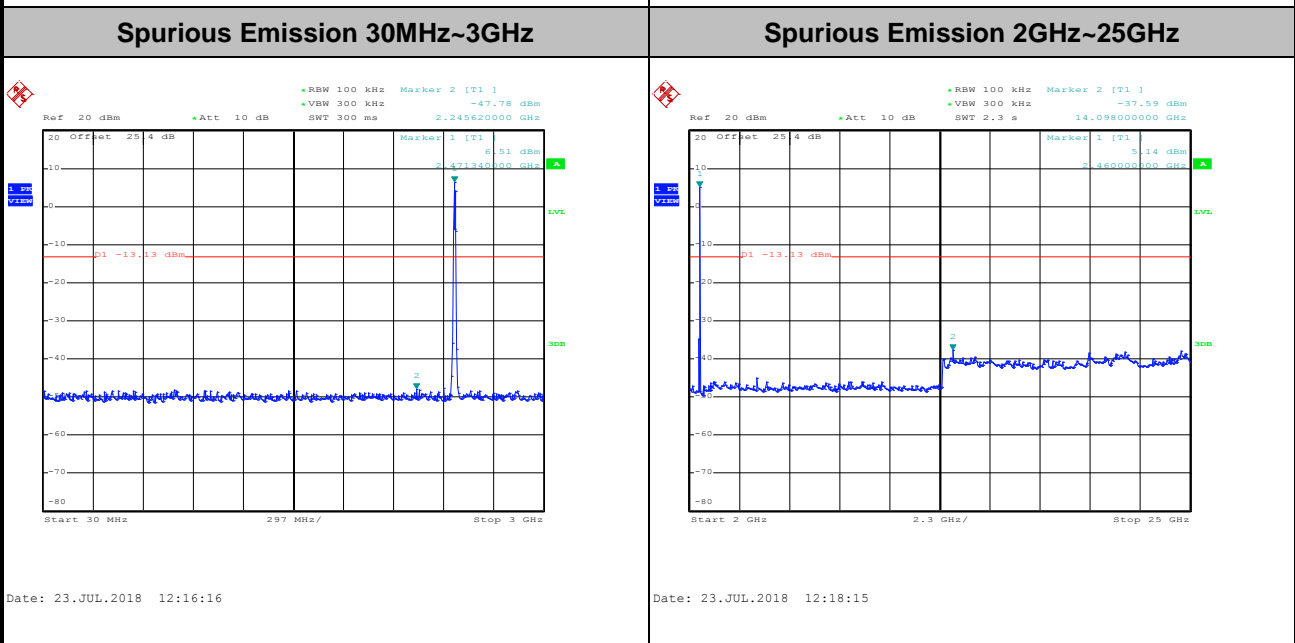
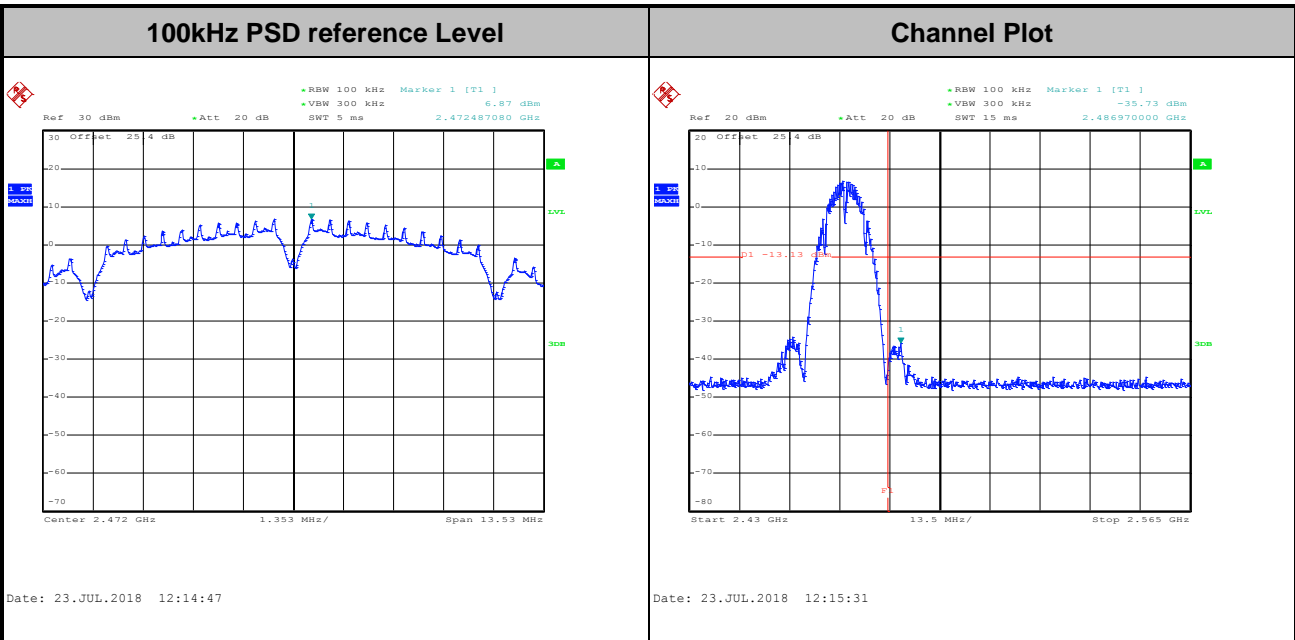


Test Mode :	802.11b	Test Channel :	12
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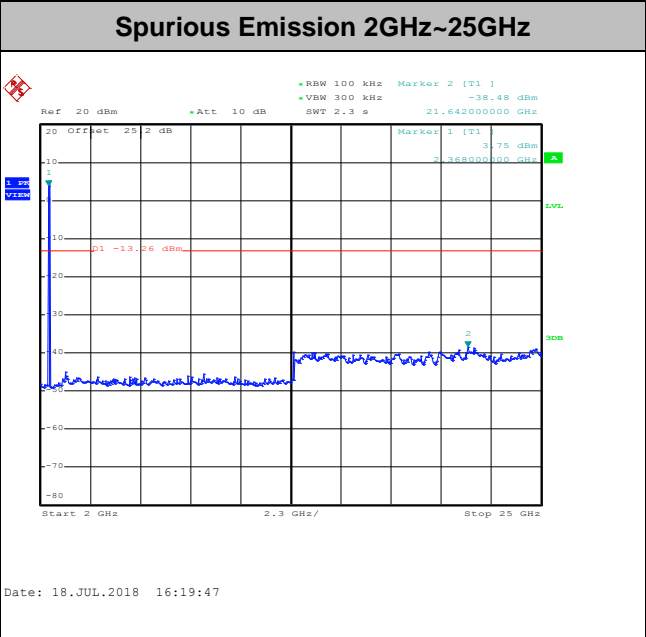
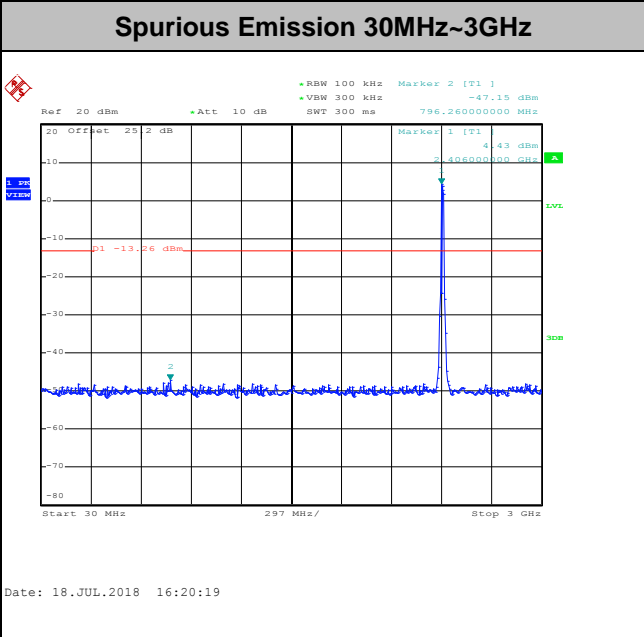
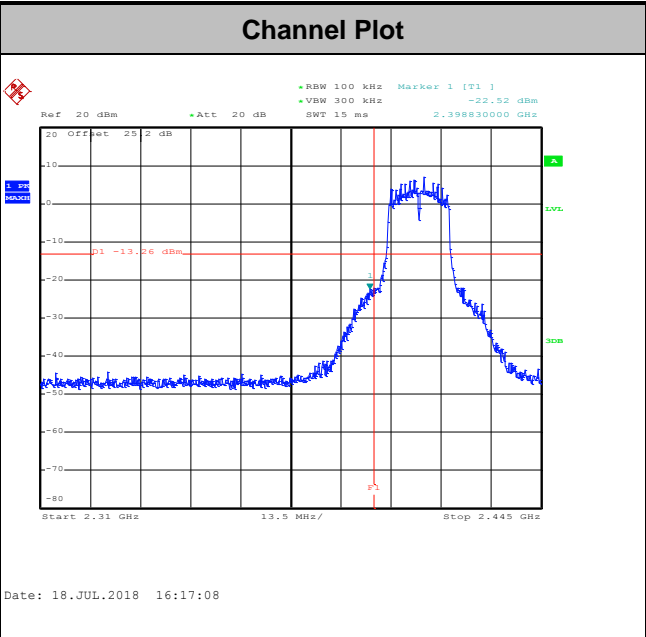
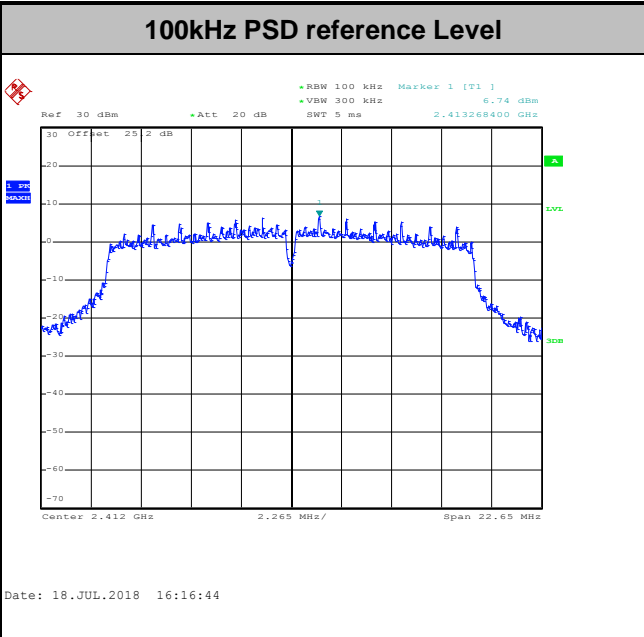


Test Mode :	802.11b	Test Channel :	13
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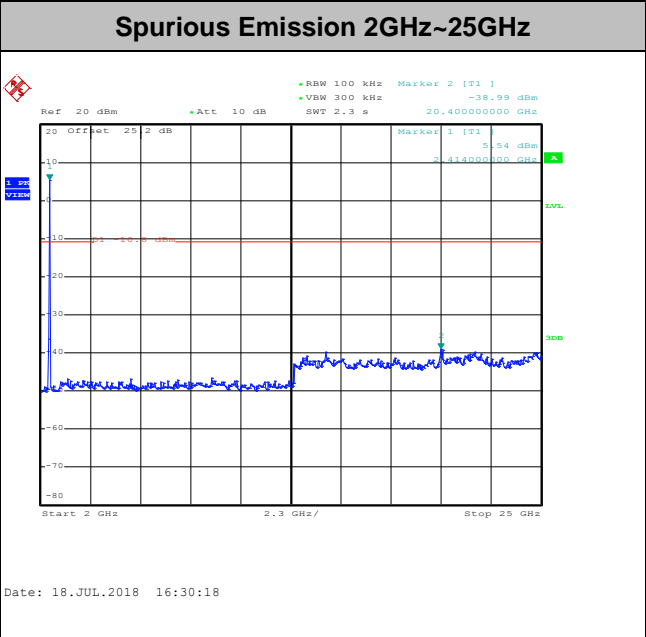
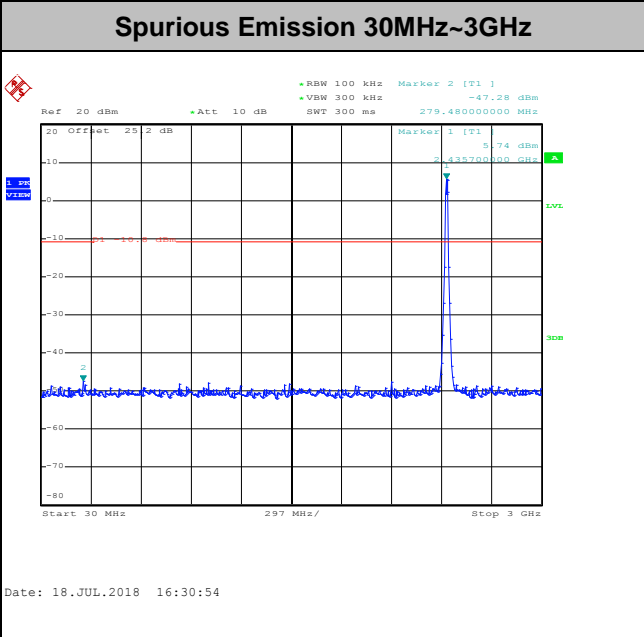
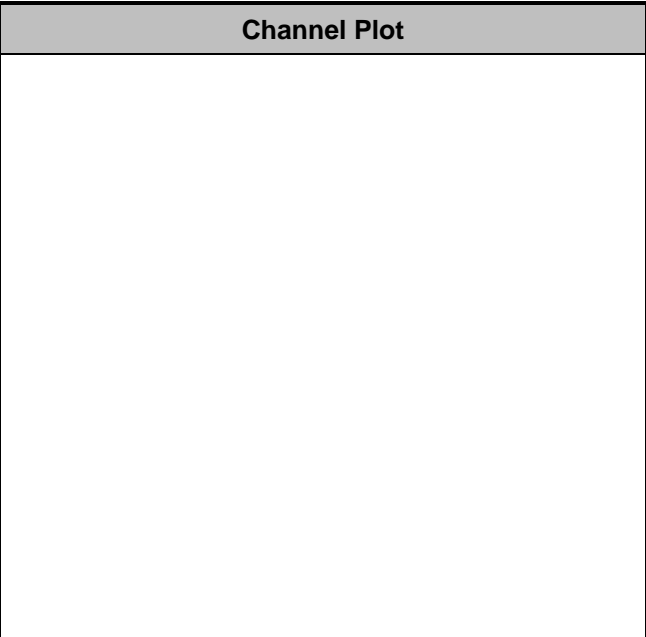
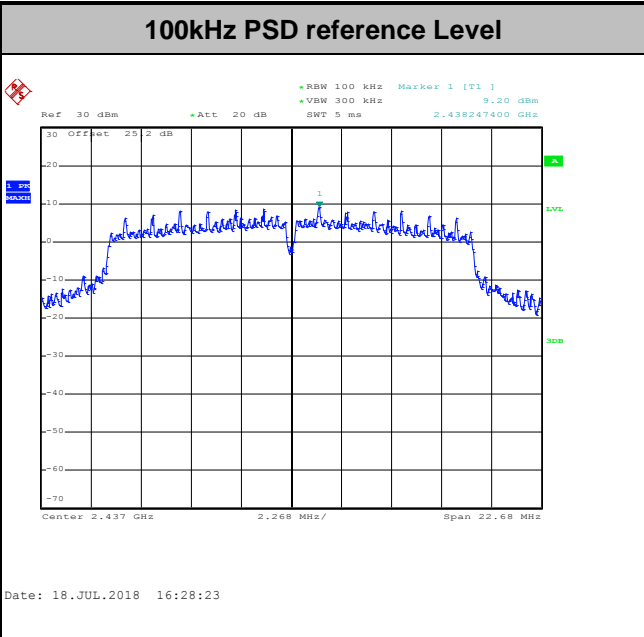


Test Mode :	802.11g	Test Channel :	01
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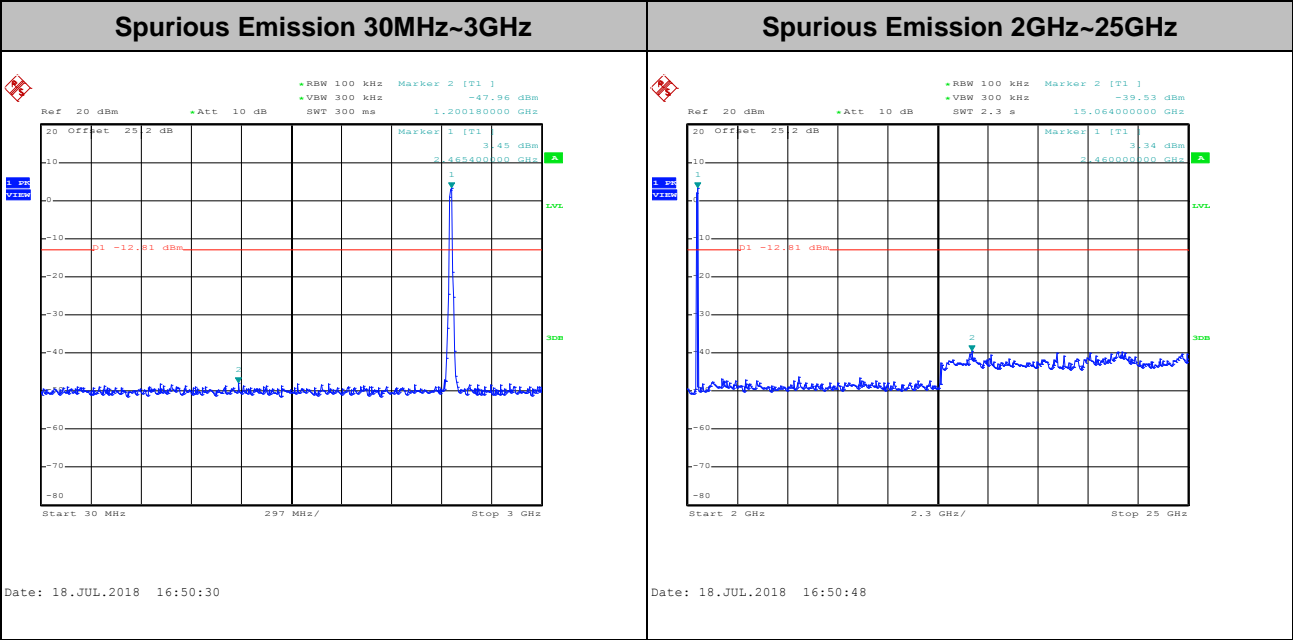
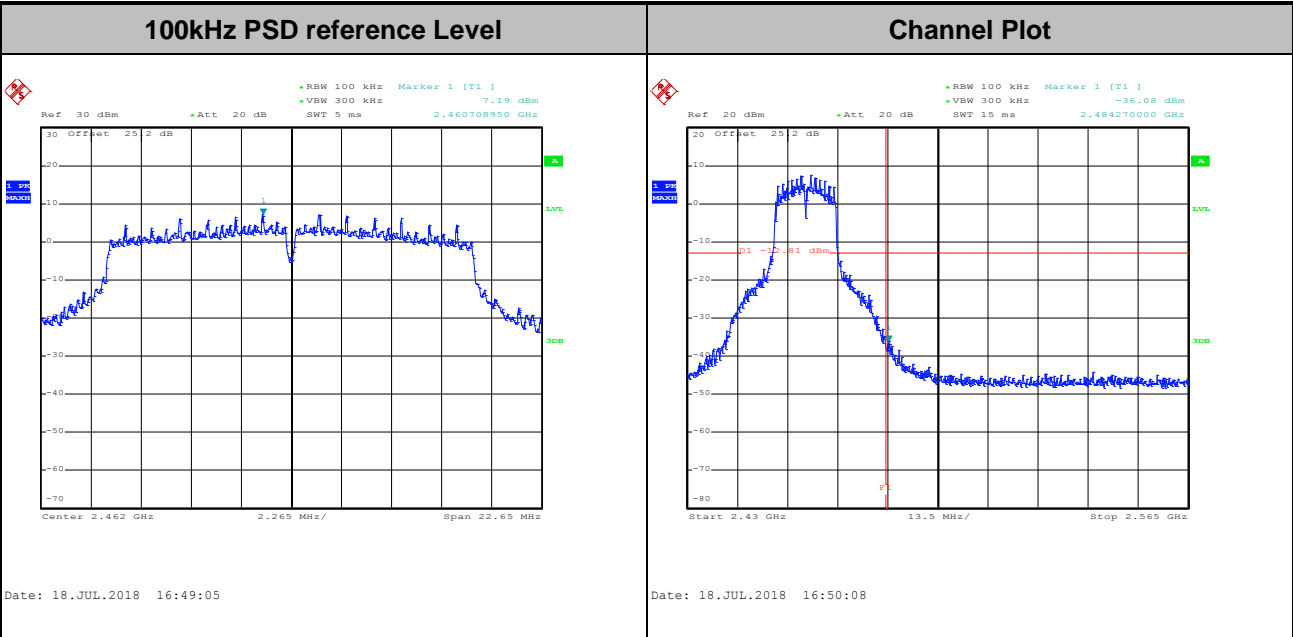


Test Mode :	802.11g	Test Channel :	06
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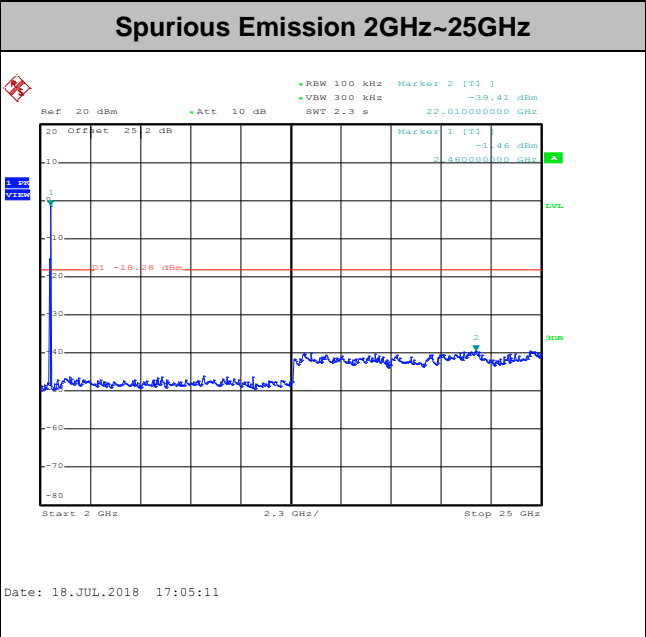
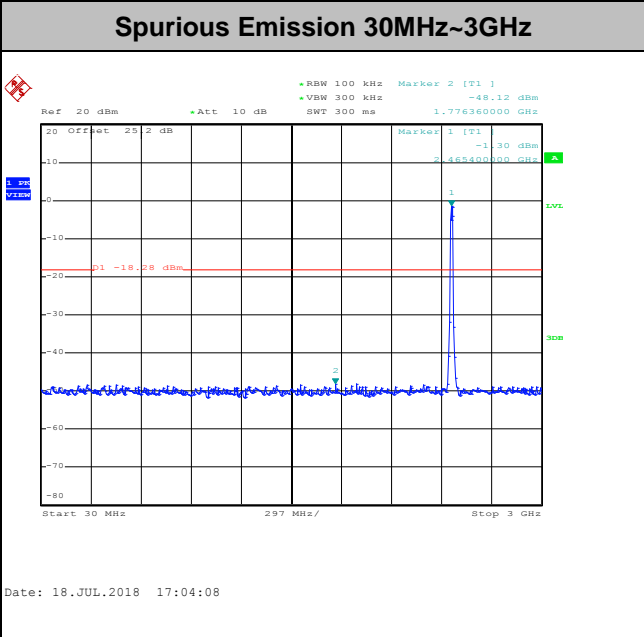
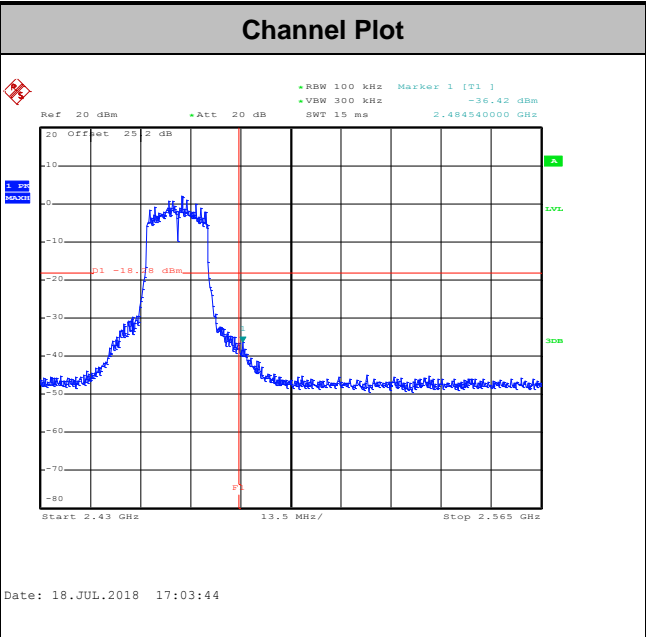
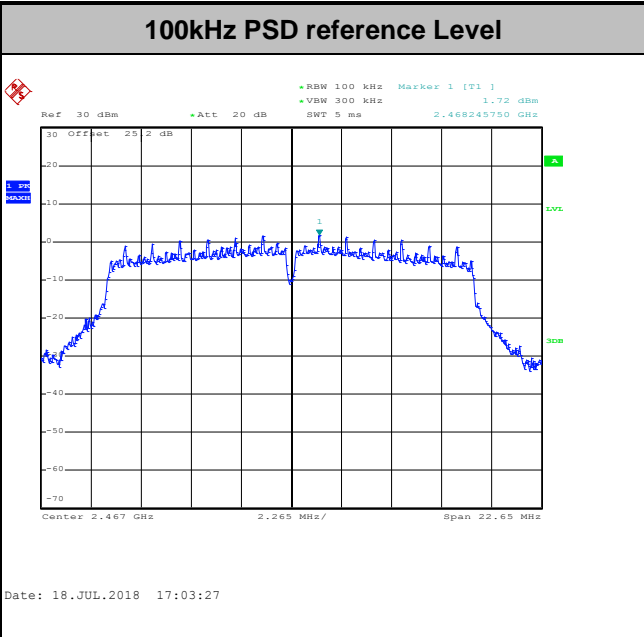


Test Mode :	802.11g	Test Channel :	11
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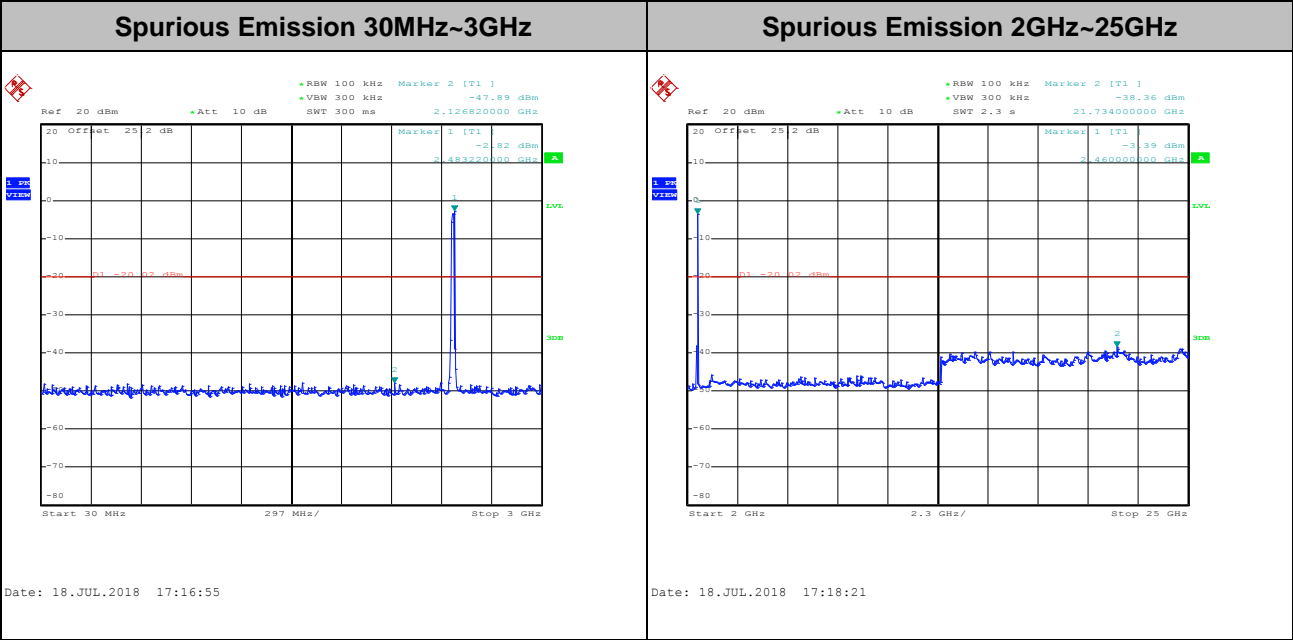
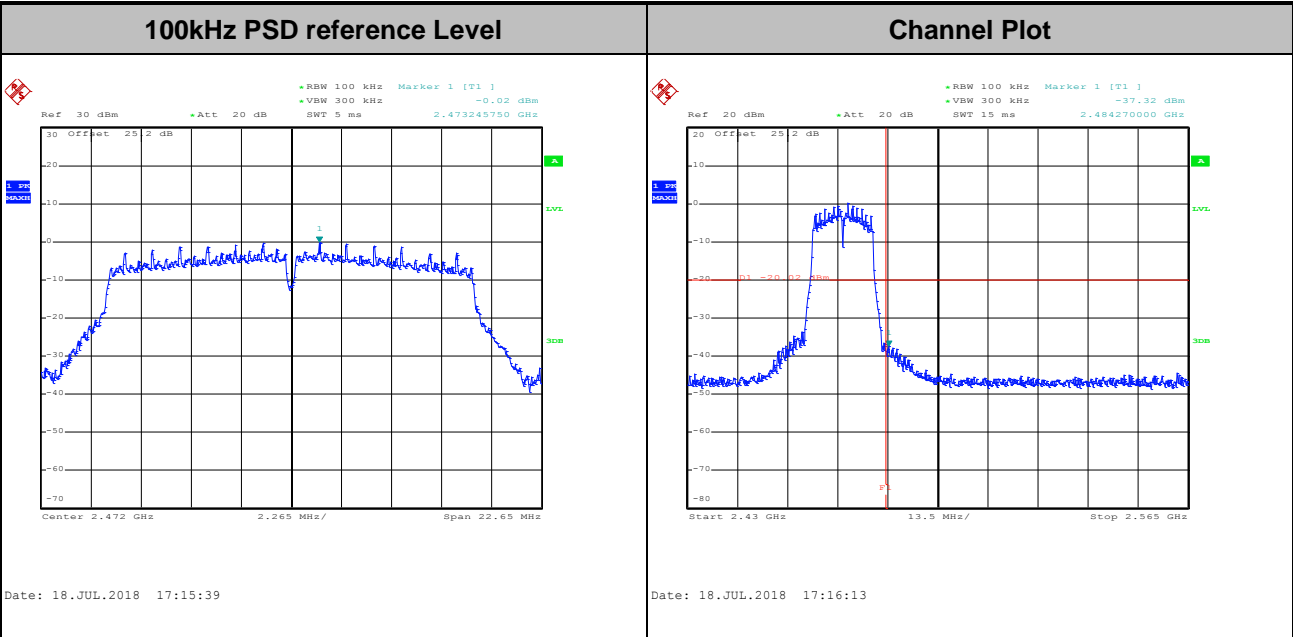


Test Mode :	802.11g	Test Channel :	12
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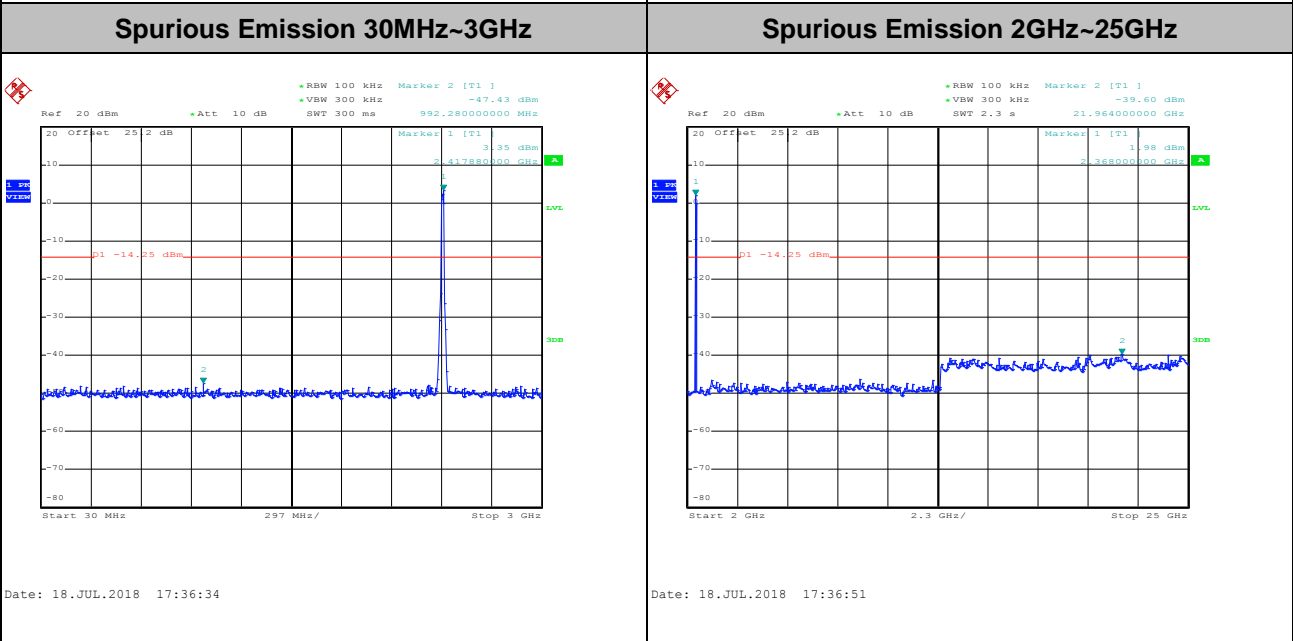
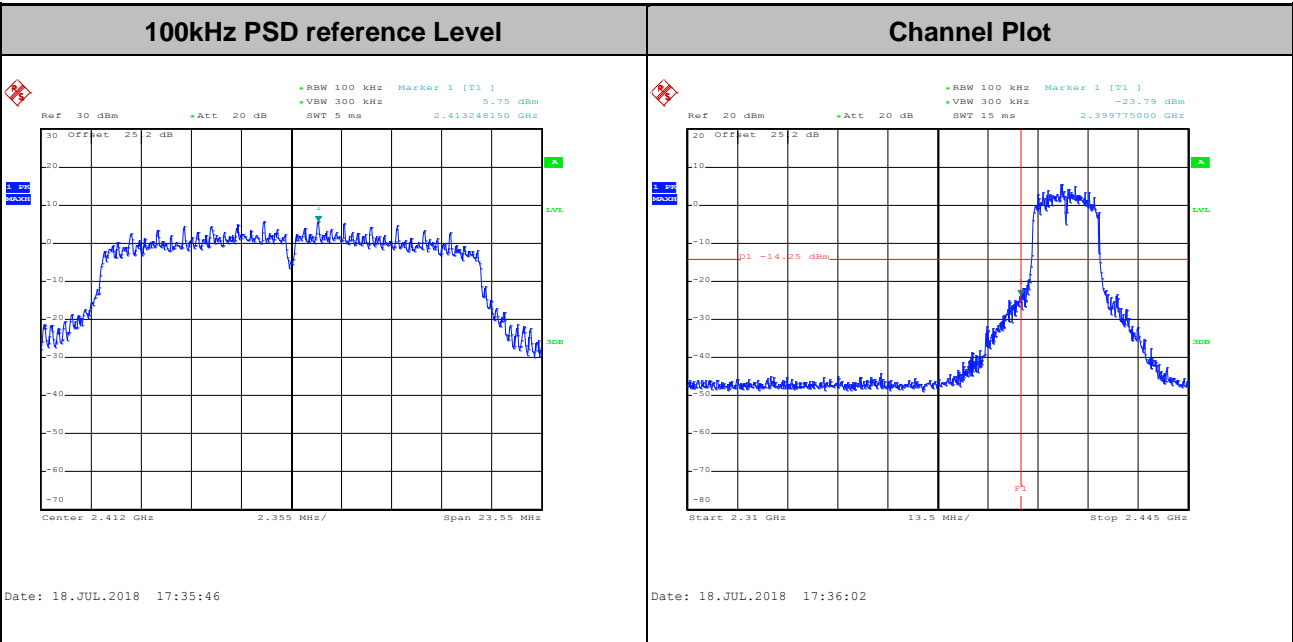


Test Mode :	802.11g	Test Channel :	13
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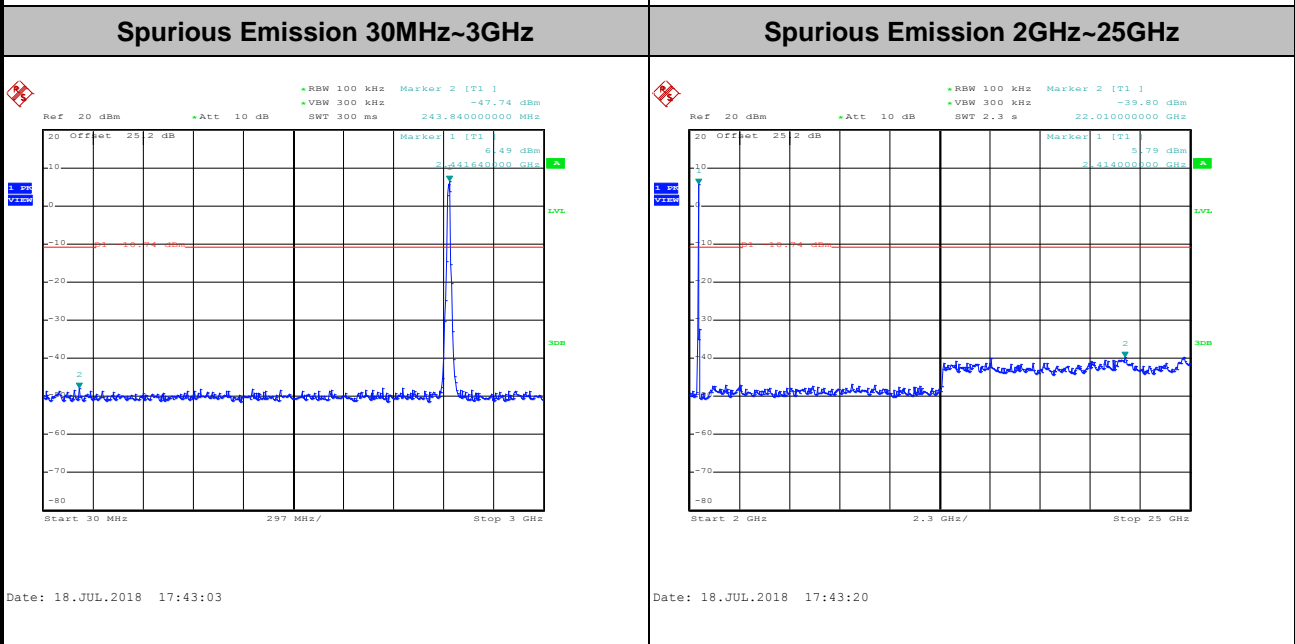
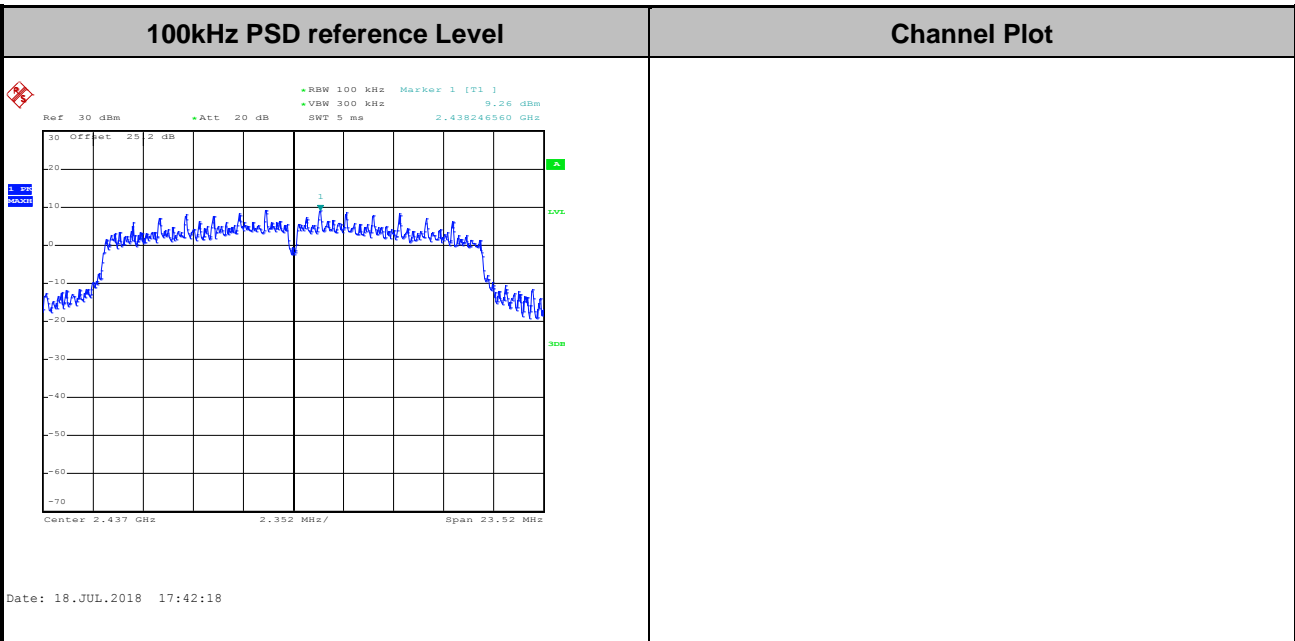


Test Mode :	802.11n HT20	Test Channel :	01
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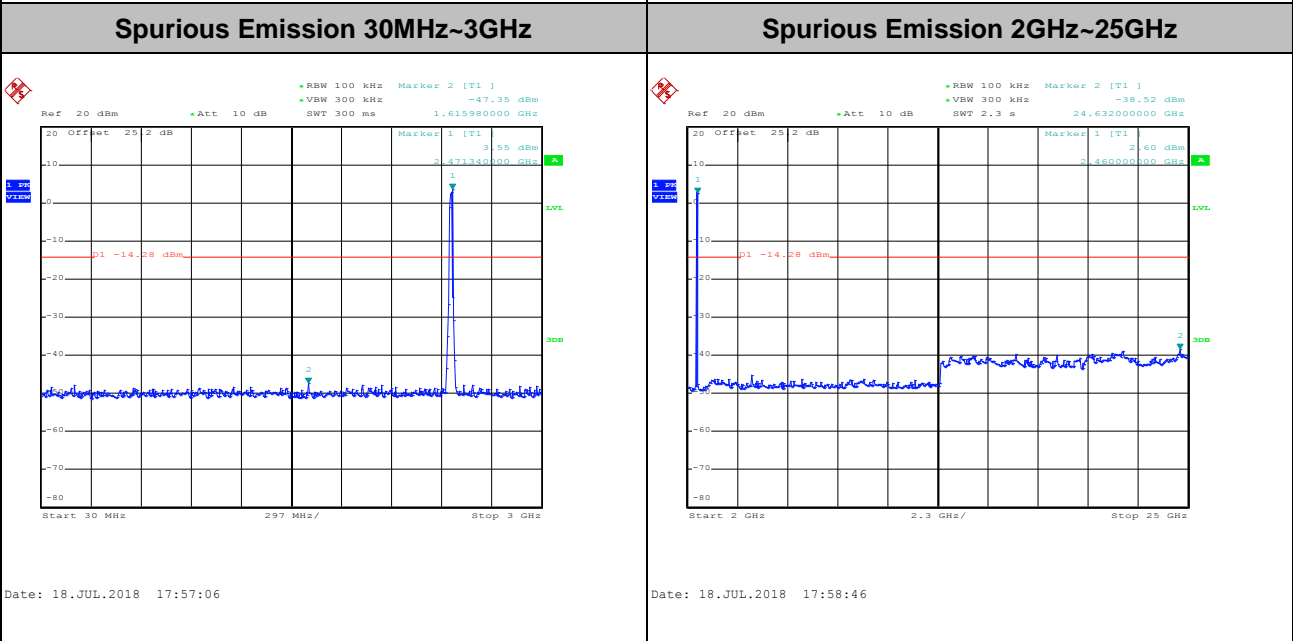
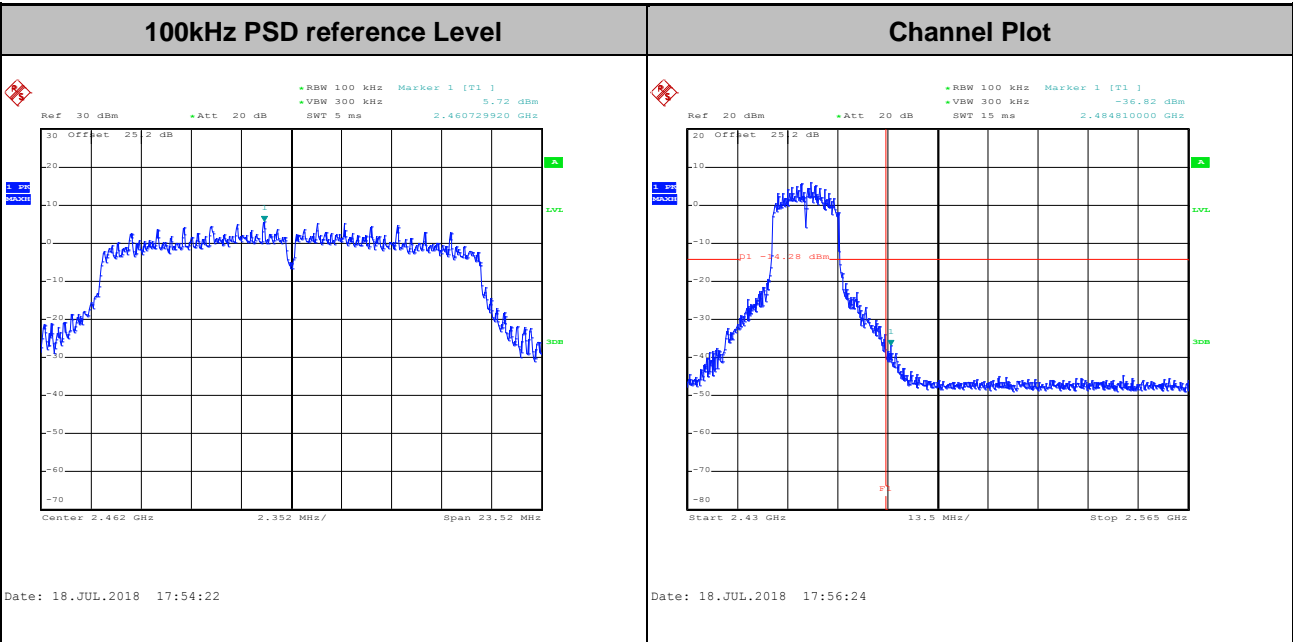


Test Mode :	802.11n HT20	Test Channel :	06
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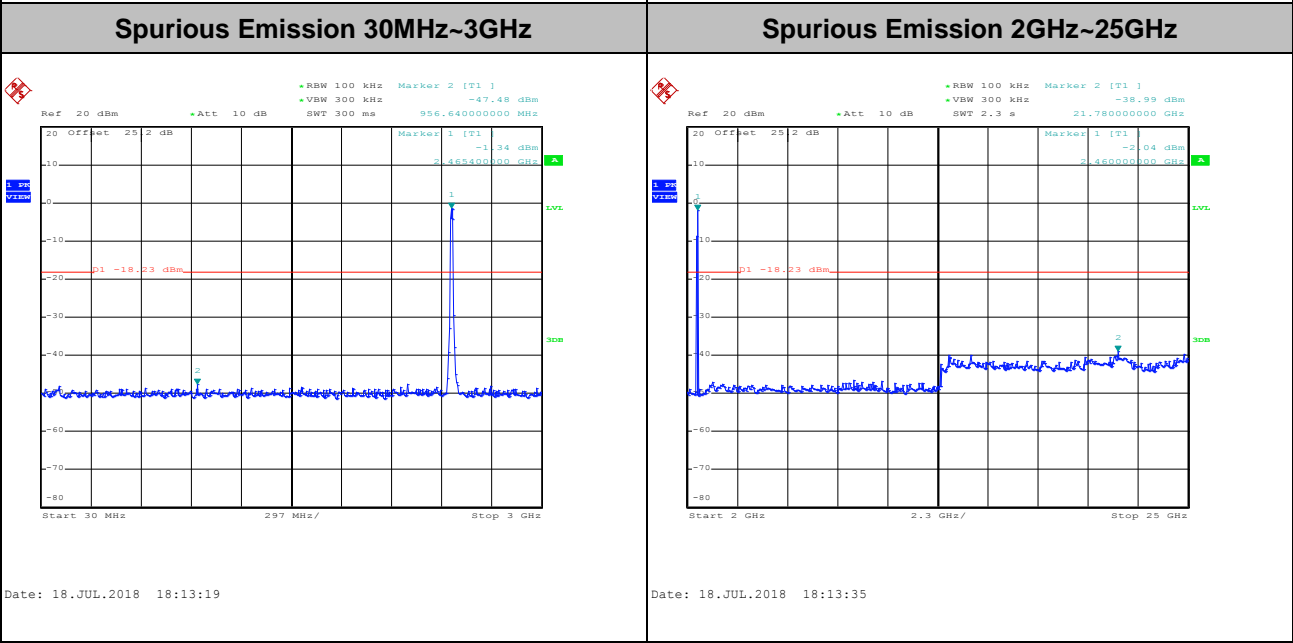
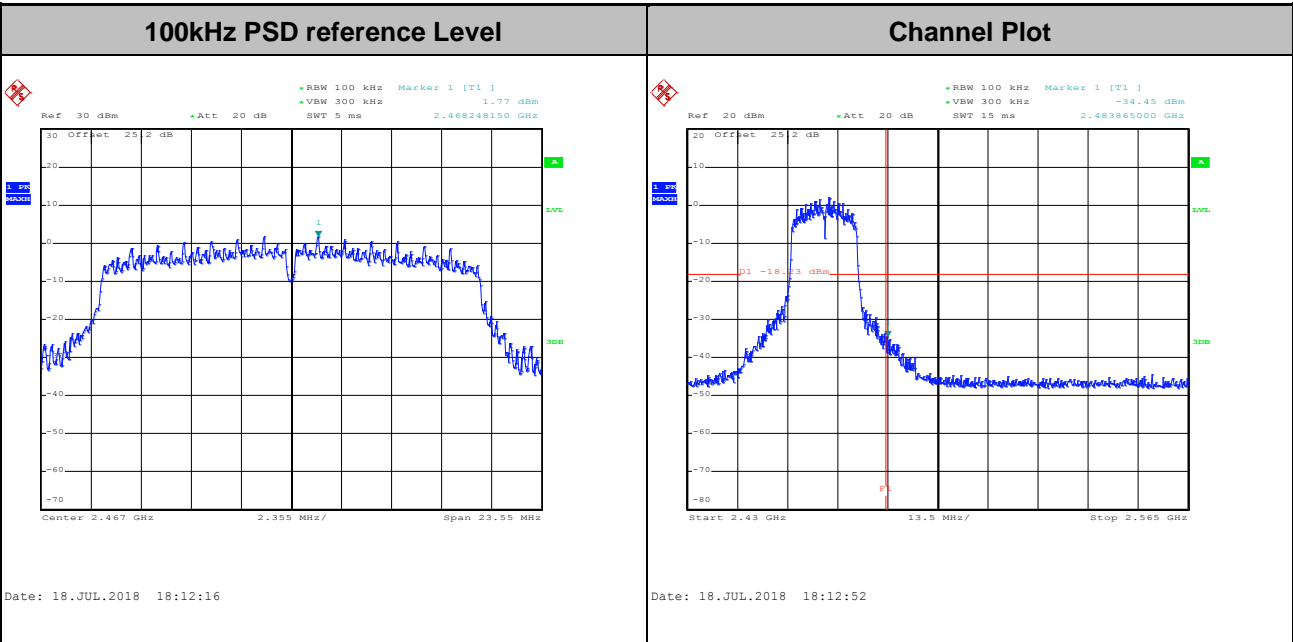


Test Mode :	802.11n HT20	Test Channel :	11
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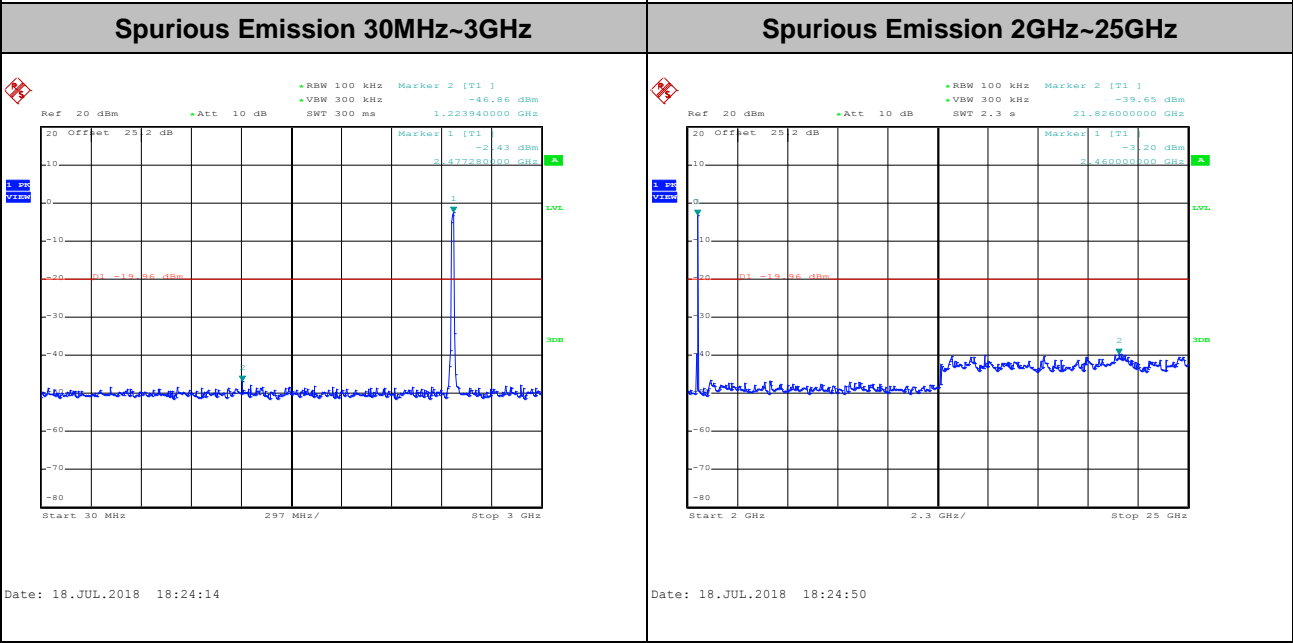
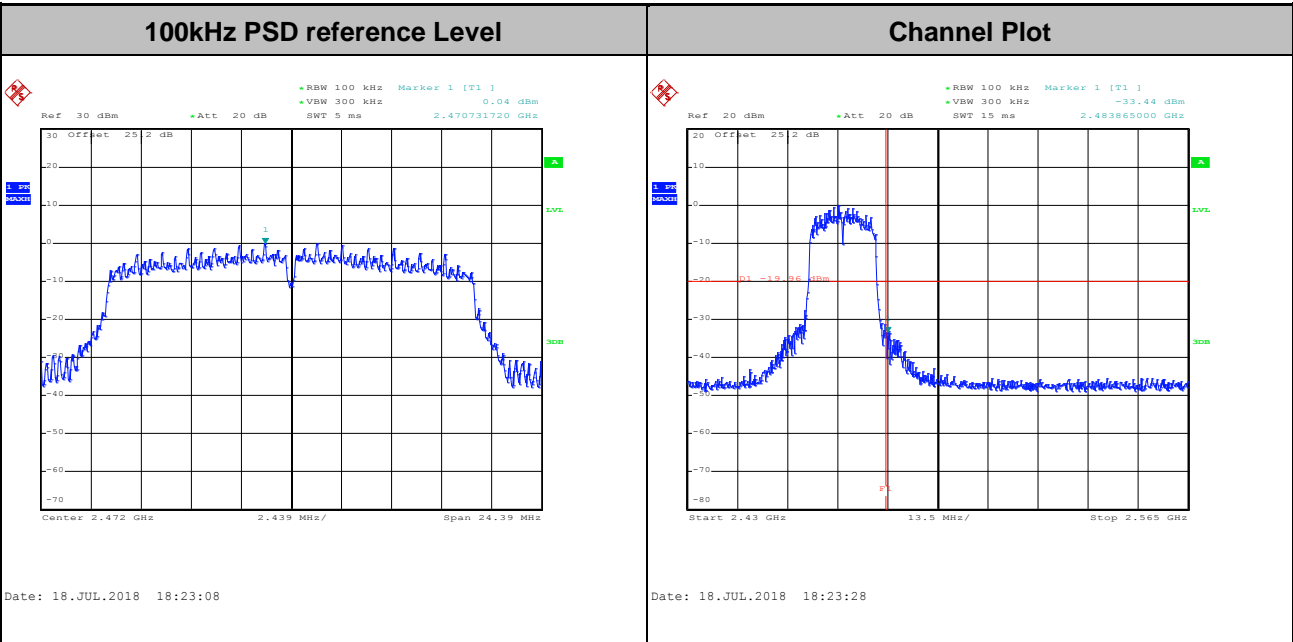


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

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.

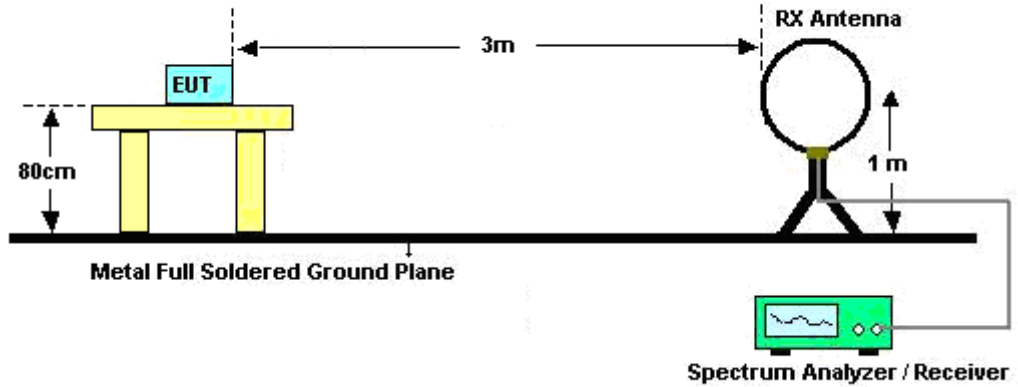


3.5.3 Test Procedures

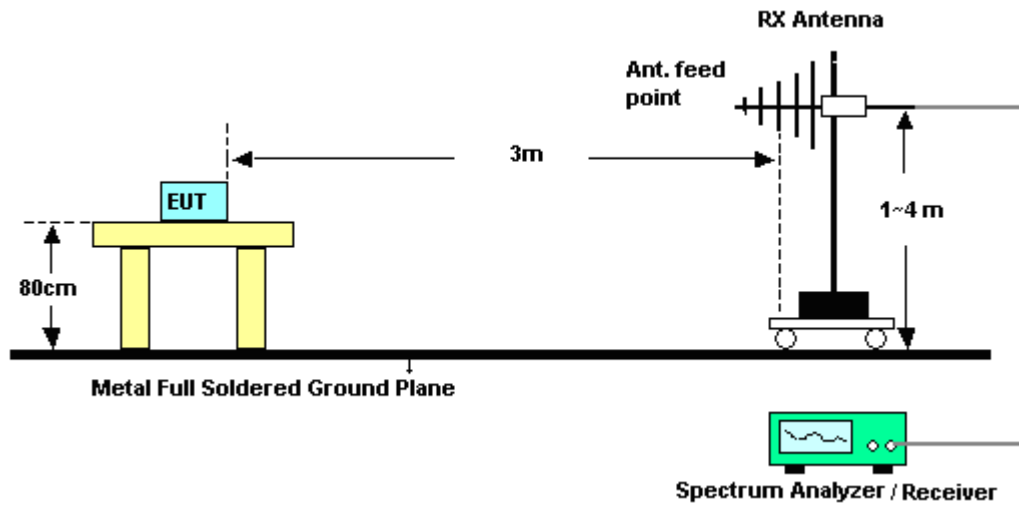
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test 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

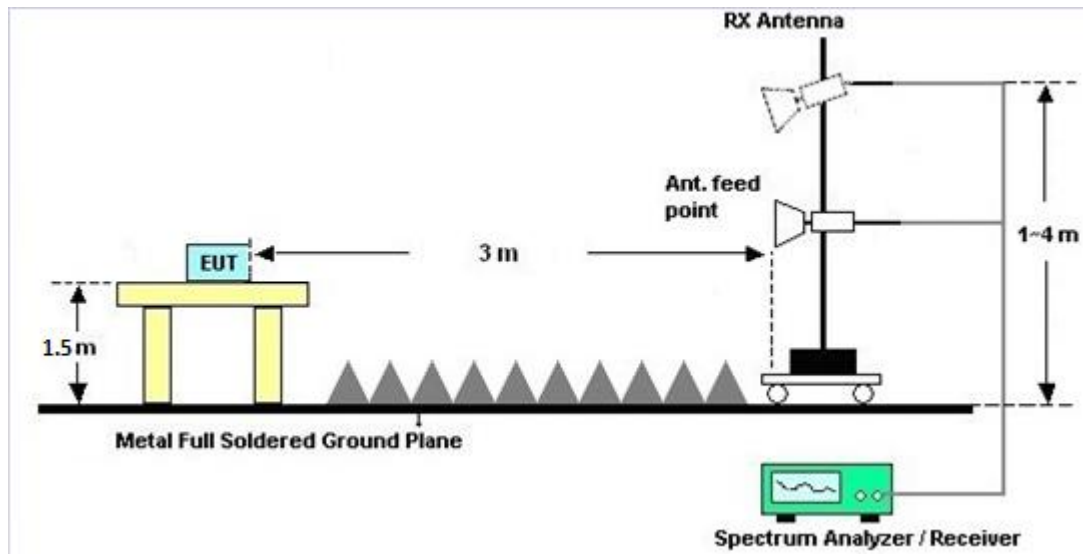
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

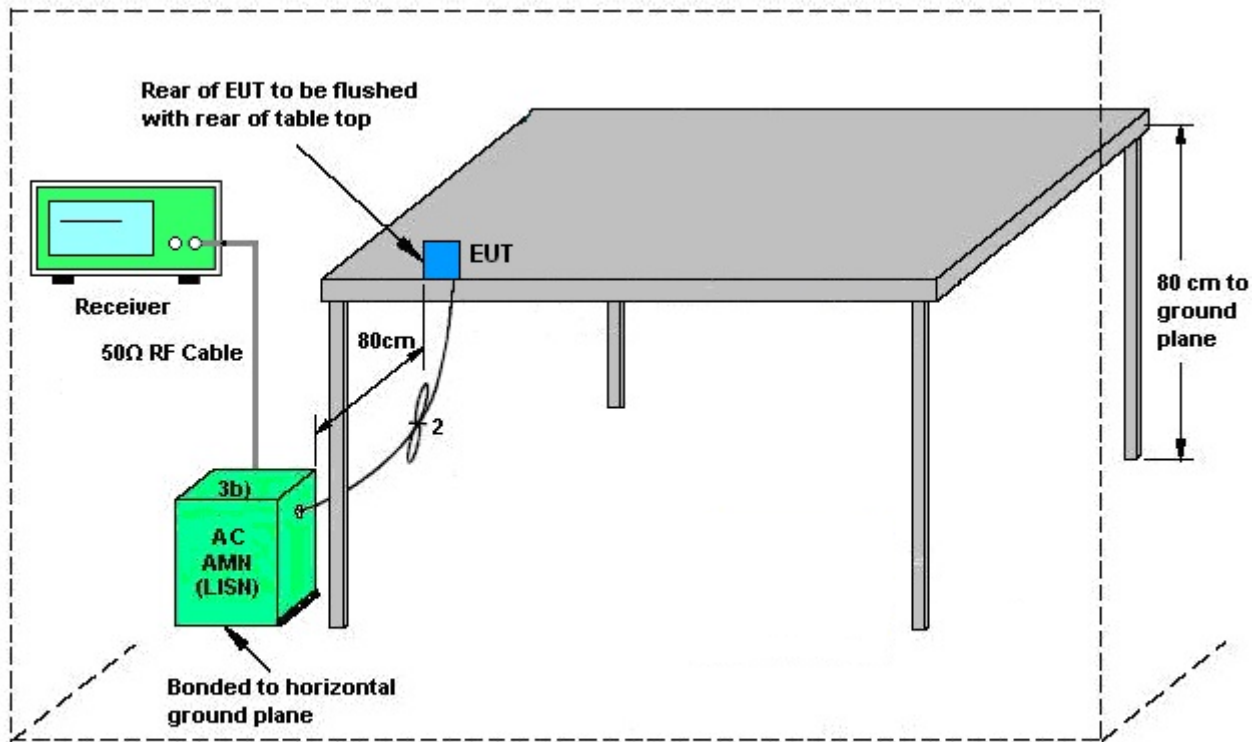
3.6.2 Measuring Instruments

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



AMN = Artificial mains network (LISH)
 AE = Associated equipment
 EUT = Equipment under test
 ISN = Impedance stabilization network

3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes>

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	3.21	1.10	3.21	5.23	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	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	Jun. 25, 2018~ Jul. 25, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Jun. 25, 2018~ Jul. 25, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Jun. 25, 2018~ Jul. 25, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Mar. 01, 2018	Jun. 25, 2018~ Jul. 25, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jul. 09, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jul. 09, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jul. 09, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Jul. 09, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jul. 09, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jul. 09, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jul. 09, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jun. 30, 2018~ Jul. 12, 2018	Nov. 22, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 14, 2017	Jun. 30, 2018~ Jul. 12, 2018	Oct. 13, 2018	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Oct. 20, 2017	Jun. 30, 2018~ Jul. 12, 2018	Oct. 19, 2018	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Nov. 27, 2017	Jun. 30, 2018~ Jul. 12, 2018	Nov. 26, 2018	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 26, 2018	Jun. 30, 2018~ Jul. 12, 2018	Mar. 25, 2019	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY532701 48	1GHz~26.5GHz	Jan. 15, 2018	Jun. 30, 2018~ Jul. 12, 2018	Jan. 14, 2019	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590074	1GHz~18GHz	May 21, 2018	Jun. 30, 2018~ Jul. 12, 2018	May 20, 2019	Radiation (03CH12-HY)
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jun. 30, 2018~ Jul. 12, 2018	Jul. 17, 2018	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 25, 2017	Jun. 30, 2018~ Jul. 12, 2018	Dec. 24, 2018	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200-1 2SS	SN2	1.2G Low Pass	Jul. 17, 2017	Jun. 30, 2018~ Jul. 12, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60ST	SN2	3 GHz Highpass	Jul. 17, 2017	Jun. 30, 2018~ Jul. 12, 2018	Jul. 16, 2018	Radiation (03CH12-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 14, 2018	Jun. 30, 2018~ Jul. 12, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	Jun. 30, 2018~ Jul. 12, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	Jun. 30, 2018~ Jul. 12, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Jun. 30, 2018~ Jul. 12, 2018	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Jun. 30, 2018~ Jul. 12, 2018	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	Jun. 30, 2018~ Jul. 12, 2018	N/A	Radiation (03CH12-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin / Rebecca Li	Temperature:	21~25	°C
Test Date:	2018/6/25 ~ 2018/7/25	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	13.65	14.10	9.00	9.02	0.50	Pass
11b	1Mbps	1	6	2437	13.55	15.40	8.98	10.04	0.50	Pass
11b	1Mbps	1	11	2462	13.55	15.70	9.02	10.02	0.50	Pass
11b	1Mbps	1	12	2467	13.55	14.10	9.00	9.04	0.50	Pass
11b	1Mbps	1	13	2472	13.45	13.65	9.00	9.00	0.50	Pass
11g	6Mbps	1	1	2412	17.10	16.85	15.12	15.08	0.50	Pass
11g	6Mbps	1	6	2437	20.85	18.85	15.12	15.10	0.50	Pass
11g	6Mbps	1	11	2462	16.80	17.00	15.10	15.10	0.50	Pass
11g	6Mbps	1	12	2467	16.65	16.90	15.12	15.14	0.50	Pass
11g	6Mbps	1	13	2472	16.65	16.80	15.10	15.10	0.50	Pass
HT20	MCS0	1	1	2412	18.05	17.80	15.12	15.12	0.50	Pass
HT20	MCS0	1	6	2437	18.65	19.40	15.10	15.12	0.50	Pass
HT20	MCS0	1	11	2462	17.75	18.15	15.10	15.12	0.50	Pass
HT20	MCS0	1	12	2467	17.70	17.70	15.14	15.10	0.50	Pass
HT20	MCS0	1	13	2472	17.65	17.70	15.14	15.10	0.50	Pass
11b	1Mbps	2	1	2412	13.70	13.85	9.02	9.00	0.50	Pass
11b	1Mbps	2	6	2437	13.70	13.80	8.98	9.00	0.50	Pass
11b	1Mbps	2	11	2462	13.85	14.10	9.02	9.02	0.50	Pass
11b	1Mbps	2	12	2467	13.65	13.85	9.04	9.04	0.50	Pass
11b	1Mbps	2	13	2472	13.50	13.70	9.06	9.02	0.50	Pass
11g	6Mbps	2	1	2412	16.95	16.60	15.10	15.10	0.50	Pass
11g	6Mbps	2	6	2437	18.85	17.90	15.12	15.12	0.50	Pass
11g	6Mbps	2	11	2462	17.00	16.80	15.08	15.10	0.50	Pass
11g	6Mbps	2	12	2467	16.65	16.55	15.12	15.10	0.50	Pass
11g	6Mbps	2	13	2472	16.65	16.50	15.12	15.10	0.50	Pass
HT20	MCS0	2	1	2412	17.85	17.65	15.14	15.70	0.50	Pass
HT20	MCS0	2	6	2437	19.70	19.15	15.08	15.68	0.50	Pass
HT20	MCS0	2	11	2462	17.75	17.70	15.08	15.68	0.50	Pass
HT20	MCS0	2	12	2467	17.70	17.60	15.12	15.70	0.50	Pass
HT20	MCS0	2	13	2472	17.65	17.55	15.14	16.26	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	20.93	22.76	-	30.00	30.00	3.21	1.10	24.14	23.86	36.00	36.00	Pass
11b	1Mbps	1	6	2437	20.13	24.45	-	30.00	30.00	3.21	1.10	23.34	25.55	36.00	36.00	Pass
11b	1Mbps	1	11	2462	19.73	24.40	-	30.00	30.00	3.21	1.10	22.94	25.50	36.00	36.00	Pass
11b	1Mbps	1	12	2467	19.64	22.29	-	30.00	30.00	3.21	1.10	22.85	23.39	36.00	36.00	Pass
11b	1Mbps	1	13	2472	17.13	16.54	-	30.00	30.00	3.21	1.10	20.34	17.64	36.00	36.00	Pass
11g	6Mbps	1	1	2412	23.89	23.99	-	30.00	30.00	3.21	1.10	27.10	25.09	36.00	36.00	Pass
11g	6Mbps	1	6	2437	24.52	24.39	-	30.00	30.00	3.21	1.10	27.73	25.49	36.00	36.00	Pass
11g	6Mbps	1	11	2462	23.49	24.01	-	30.00	30.00	3.21	1.10	26.70	25.11	36.00	36.00	Pass
11g	6Mbps	1	12	2467	22.08	23.39	-	30.00	30.00	3.21	1.10	25.29	24.49	36.00	36.00	Pass
11g	6Mbps	1	13	2472	20.44	22.94	-	30.00	30.00	3.21	1.10	23.65	24.04	36.00	36.00	Pass
HT20	MCS0	1	1	2412	24.15	23.84	-	30.00	30.00	3.21	1.10	27.36	24.94	36.00	36.00	Pass
HT20	MCS0	1	6	2437	24.22	24.07	-	30.00	30.00	3.21	1.10	27.43	25.17	36.00	36.00	Pass
HT20	MCS0	1	11	2462	23.95	23.98	-	30.00	30.00	3.21	1.10	27.16	25.08	36.00	36.00	Pass
HT20	MCS0	1	12	2467	23.15	20.64	-	30.00	30.00	3.21	1.10	26.36	21.74	36.00	36.00	Pass
HT20	MCS0	1	13	2472	20.95	20.32	-	30.00	30.00	3.21	1.10	24.16	21.42	36.00	36.00	Pass
11b	1Mbps	2	1	2412	21.09	20.93	24.02	30.00		3.21		27.23		36.00		Pass
11b	1Mbps	2	6	2437	20.43	20.72	23.59	30.00		3.21		26.80		36.00		Pass
11b	1Mbps	2	11	2462	21.18	21.74	24.48	30.00		3.21		27.69		36.00		Pass
11b	1Mbps	2	12	2467	20.22	20.76	23.51	30.00		3.21		26.72		36.00		Pass
11b	1Mbps	2	13	2472	16.46	17.11	19.81	30.00		3.21		23.02		36.00		Pass
11g	6Mbps	2	1	2412	23.59	23.87	26.74	30.00		3.21		29.95		36.00		Pass
11g	6Mbps	2	6	2437	24.27	24.05	27.17	30.00		3.21		30.38		36.00		Pass
11g	6Mbps	2	11	2462	23.60	23.82	26.72	30.00		3.21		29.93		36.00		Pass
11g	6Mbps	2	12	2467	20.26	20.13	23.21	30.00		3.21		26.42		36.00		Pass
11g	6Mbps	2	13	2472	19.44	19.61	22.54	30.00		3.21		25.75		36.00		Pass
HT20	MCS0	2	1	2412	23.71	23.98	26.86	30.00		3.21		30.07		36.00		Pass
HT20	MCS0	2	6	2437	24.24	24.10	27.18	30.00		3.21		30.39		36.00		Pass
HT20	MCS0	2	11	2462	23.62	23.73	26.69	30.00		3.21		29.90		36.00		Pass
HT20	MCS0	2	12	2467	21.23	20.61	23.94	30.00		3.21		27.15		36.00		Pass
HT20	MCS0	2	13	2472	20.78	20.17	23.50	30.00		3.21		26.71		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.06	0.06	18.82	20.81	-
11b	1Mbps	1	6	2437	0.06	0.06	17.98	22.91	
11b	1Mbps	1	11	2462	0.06	0.06	17.49	22.88	
11b	1Mbps	1	12	2467	0.06	0.06	17.43	20.34	
11b	1Mbps	1	13	2472	0.06	0.06	14.88	14.38	
11g	6Mbps	1	1	2412	0.33	0.33	18.20	17.33	
11g	6Mbps	1	6	2437	0.33	0.33	20.76	20.18	
11g	6Mbps	1	11	2462	0.33	0.33	16.46	18.20	
11g	6Mbps	1	12	2467	0.33	0.33	13.34	15.97	
11g	6Mbps	1	13	2472	0.33	0.33	11.40	14.78	
HT20	MCS0	1	1	2412	0.35	0.35	17.58	16.30	
HT20	MCS0	1	6	2437	0.35	0.35	19.72	19.81	
HT20	MCS0	1	11	2462	0.35	0.35	15.98	17.46	
HT20	MCS0	1	12	2467	0.35	0.35	13.23	11.94	
HT20	MCS0	1	13	2472	0.35	0.35	9.88	10.76	
11b	1Mbps	2	1	2412	0.06	0.06	19.13	18.95	22.05
11b	1Mbps	2	6	2437	0.06	0.06	18.37	18.65	21.52
11b	1Mbps	2	11	2462	0.06	0.06	19.06	19.80	22.46
11b	1Mbps	2	12	2467	0.06	0.06	18.12	18.71	21.44
11b	1Mbps	2	13	2472	0.06	0.06	14.11	14.72	17.44
11g	6Mbps	2	1	2412	0.30	0.30	17.33	17.31	20.33
11g	6Mbps	2	6	2437	0.30	0.30	20.03	19.50	22.78
11g	6Mbps	2	11	2462	0.30	0.30	17.21	17.82	20.54
11g	6Mbps	2	12	2467	0.30	0.30	11.56	12.48	15.05
11g	6Mbps	2	13	2472	0.30	0.30	10.01	10.99	13.54
HT20	MCS0	2	1	2412	0.36	0.35	16.15	16.66	19.42
HT20	MCS0	2	6	2437	0.36	0.35	19.90	19.82	22.87
HT20	MCS0	2	11	2462	0.36	0.35	15.81	16.59	19.23
HT20	MCS0	2	12	2467	0.36	0.35	11.49	12.58	15.08
HT20	MCS0	2	13	2472	0.36	0.35	10.03	11.13	13.63

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-2.97	-1.70	-	3.21	1.10	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-3.59	0.01	-	3.21	1.10	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-4.19	0.40	-	3.21	1.10	8.00	8.00	Pass
11b	1Mbps	1	12	2467	-3.95	-2.51	-	3.21	1.10	8.00	8.00	Pass
11b	1Mbps	1	13	2472	-6.78	-8.52	-	3.21	1.10	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-8.14	-9.33	-	3.21	1.10	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-5.93	-7.25	-	3.21	1.10	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-9.04	-9.02	-	3.21	1.10	8.00	8.00	Pass
11g	6Mbps	1	12	2467	-14.55	-11.11	-	3.21	1.10	8.00	8.00	Pass
11g	6Mbps	1	13	2472	-15.43	-12.29	-	3.21	1.10	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-8.22	-10.45	-	3.21	1.10	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-7.12	-7.14	-	3.21	1.10	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-9.29	-9.07	-	3.21	1.10	8.00	8.00	Pass
HT20	MCS0	1	12	2467	-12.08	-12.91	-	3.21	1.10	8.00	8.00	Pass
HT20	MCS0	1	13	2472	-16.32	-14.82	-	3.21	1.10	8.00	8.00	Pass
11b	1Mbps	2	1	2412	-2.70	-2.96	0.31	5.23		8.00		Pass
11b	1Mbps	2	6	2437	-3.40	-3.08	-0.07	5.23		8.00		Pass
11b	1Mbps	2	11	2462	-3.15	-2.70	0.31	5.23		8.00		Pass
11b	1Mbps	2	12	2467	-4.99	-3.76	-0.75	5.23		8.00		Pass
11b	1Mbps	2	13	2472	-7.35	-6.72	-3.71	5.23		8.00		Pass
11g	6Mbps	2	1	2412	-9.40	-9.77	-6.39	5.23		8.00		Pass
11g	6Mbps	2	6	2437	-7.19	-7.70	-4.18	5.23		8.00		Pass
11g	6Mbps	2	11	2462	-10.58	-9.53	-6.52	5.23		8.00		Pass
11g	6Mbps	2	12	2467	-15.92	-14.91	-11.90	5.23		8.00		Pass
11g	6Mbps	2	13	2472	-16.96	-15.61	-12.60	5.23		8.00		Pass
HT20	MCS0	2	1	2412	-11.19	-10.42	-7.41	5.23		8.00		Pass
HT20	MCS0	2	6	2437	-6.75	-7.70	-3.74	5.23		8.00		Pass
HT20	MCS0	2	11	2462	-10.90	-9.72	-6.71	5.23		8.00		Pass
HT20	MCS0	2	12	2467	-15.69	-13.77	-10.76	5.23		8.00		Pass
HT20	MCS0	2	13	2472	-17.59	-15.87	-12.86	5.23		8.00		Pass

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



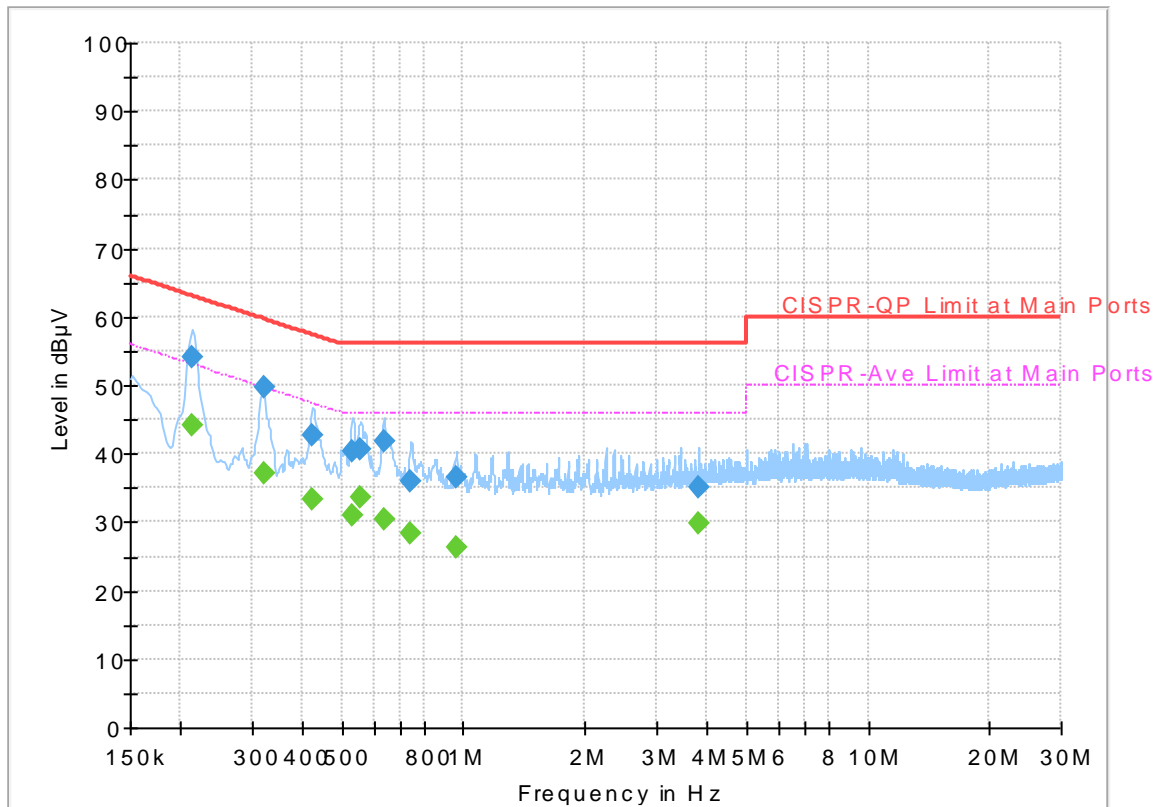
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Kai-Chun Chu	Temperature :	24~26°C
		Relative Humidity :	51~55%

EUT Information

Report NO : 832126-02
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



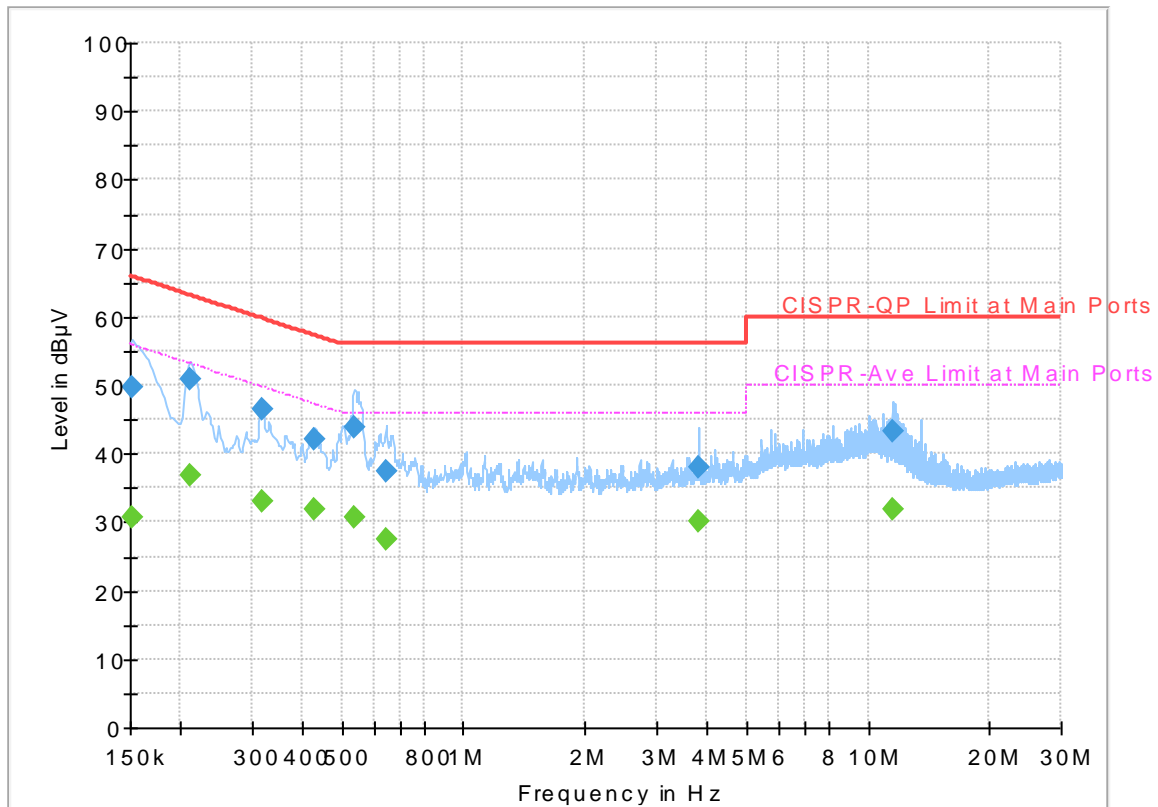
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.213000	---	44.07	53.09	9.02	L1	OFF	19.5
0.213000	54.11	---	63.09	8.98	L1	OFF	19.5
0.321000	---	37.03	49.68	12.65	L1	OFF	19.5
0.321000	49.72	---	59.68	9.96	L1	OFF	19.5
0.422250	---	33.39	47.40	14.01	L1	OFF	19.5
0.422250	42.79	---	57.40	14.61	L1	OFF	19.5
0.530250	---	31.14	46.00	14.86	L1	OFF	19.5
0.530250	40.36	---	56.00	15.64	L1	OFF	19.5
0.555000	---	33.51	46.00	12.49	L1	OFF	19.5
0.555000	40.55	---	56.00	15.45	L1	OFF	19.5
0.638250	---	30.52	46.00	15.48	L1	OFF	19.6
0.638250	41.75	---	56.00	14.25	L1	OFF	19.6
0.741750	---	28.39	46.00	17.61	L1	OFF	19.6
0.741750	36.01	---	56.00	19.99	L1	OFF	19.6
0.957750	---	26.42	46.00	19.58	L1	OFF	19.6
0.957750	36.47	---	56.00	19.53	L1	OFF	19.6
3.822000	---	29.70	46.00	16.30	L1	OFF	19.7
3.822000	35.03	---	56.00	20.97	L1	OFF	19.7

EUT Information

Report NO : 832126-02
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	30.76	55.88	25.12	N	OFF	19.5
0.152250	49.85	---	65.88	16.03	N	OFF	19.5
0.210750	---	36.91	53.18	16.27	N	OFF	19.5
0.210750	50.90	---	63.18	12.28	N	OFF	19.5
0.318750	---	33.02	49.74	16.72	N	OFF	19.5
0.318750	46.41	---	59.74	13.33	N	OFF	19.5
0.429000	---	31.77	47.27	15.50	N	OFF	19.5
0.429000	42.14	---	57.27	15.13	N	OFF	19.5
0.539250	---	30.60	46.00	15.40	N	OFF	19.5
0.539250	43.93	---	56.00	12.07	N	OFF	19.5
0.645000	---	27.35	46.00	18.65	N	OFF	19.6
0.645000	37.50	---	56.00	18.50	N	OFF	19.6
3.817500	---	30.17	46.00	15.83	N	OFF	19.7
3.817500	38.03	---	56.00	17.97	N	OFF	19.7
11.458500	---	31.87	50.00	18.13	N	OFF	20.0
11.458500	43.20	---	60.00	16.80	N	OFF	20.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Jack Jheng and Peter Liao	Temperature :	22~25°C
		Relative Humidity :	58~61%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2364.915	56.87	-17.13	74	44.73	27.07	16.65	31.58	290	218	P	H
		2390	44.04	-9.96	54	31.77	27.15	16.69	31.57	290	218	A	H
	*	2412	108.03	-	-	95.69	27.19	16.72	31.57	290	218	P	H
	*	2412	103.57	-	-	91.23	27.19	16.72	31.57	290	218	A	H
		2365.335	55.83	-18.17	74	43.69	27.07	16.65	31.58	300	327	P	V
		2389.8	43.96	-10.04	54	31.7	27.15	16.68	31.57	300	327	A	V
	*	2412	106.19	-	-	93.85	27.19	16.72	31.57	300	327	P	V
	*	2412	101.85	-	-	89.51	27.19	16.72	31.57	300	327	A	V
802.11b CH 06 2437MHz		2373	55.85	-18.15	74	43.66	27.11	16.66	31.58	317	217	P	H
		2388.68	43.89	-10.11	54	31.64	27.15	16.68	31.58	317	217	A	H
	*	2437	109.54	-	-	97.08	27.28	16.75	31.57	317	217	P	H
	*	2437	104.97	-	-	92.51	27.28	16.75	31.57	317	217	A	H
		2483.5	55.95	-18.05	74	43.33	27.36	16.82	31.56	317	217	P	H
		2484.39	44.35	-9.65	54	31.73	27.36	16.82	31.56	317	217	A	H
		2373.98	55.94	-18.06	74	43.75	27.11	16.66	31.58	361	324	P	V
		2389.38	43.85	-10.15	54	31.6	27.15	16.68	31.58	361	324	A	V
	*	2437	104.73	-	-	92.27	27.28	16.75	31.57	361	324	P	V
	*	2437	100.13	-	-	87.67	27.28	16.75	31.57	361	324	A	V
		2494.68	56.63	-17.37	74	43.94	27.4	16.84	31.55	361	324	P	V
		2485.3	44.13	-9.87	54	31.51	27.36	16.82	31.56	361	324	A	V



802.11b CH 11 2462MHz	*	2462	111.07	-	-	98.52	27.32	16.79	31.56	309	224	P	H
	*	2462	106.7	-	-	94.15	27.32	16.79	31.56	309	224	A	H
		2495.56	56.79	-17.21	74	44.1	27.4	16.84	31.55	309	224	P	H
		2483.6	44.63	-9.37	54	32.01	27.36	16.82	31.56	309	224	A	H
	*	2462	106.36	-	-	93.81	27.32	16.79	31.56	253	322	P	V
	*	2462	101.93	-	-	89.38	27.32	16.79	31.56	253	322	A	V
		2499.8	57.3	-16.7	74	44.61	27.4	16.84	31.55	253	322	P	V
		2484.32	44.2	-9.8	54	31.58	27.36	16.82	31.56	253	322	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	111.11	-	-	98.55	27.32	16.8	31.56	309	223	P	H
	*	2467	106.43	-	-	93.87	27.32	16.8	31.56	309	223	A	H
		2483.96	60.49	-13.51	74	47.87	27.36	16.82	31.56	309	223	P	H
		2484.12	51.51	-2.49	54	38.89	27.36	16.82	31.56	309	223	A	H
	*	2467	105.97	-	-	93.41	27.32	16.8	31.56	195	329	P	V
	*	2467	101.44	-	-	88.88	27.32	16.8	31.56	195	329	A	V
		2483.88	57.17	-16.83	74	44.55	27.36	16.82	31.56	195	329	P	V
		2484.04	47.71	-6.29	54	35.09	27.36	16.82	31.56	195	329	A	V
802.11b CH 13 2472MHz	*	2472	107.81	-	-	95.21	27.36	16.8	31.56	310	218	P	H
	*	2472	103.54	-	-	90.94	27.36	16.8	31.56	310	218	A	H
		2485.04	59.41	-14.59	74	46.79	27.36	16.82	31.56	310	218	P	H
		2484.72	52.03	-1.97	54	39.41	27.36	16.82	31.56	310	218	A	H
	*	2472	103.89	-	-	91.29	27.36	16.8	31.56	318	323	P	V
	*	2472	99.33	-	-	86.73	27.36	16.8	31.56	318	323	A	V
		2484	57.94	-16.06	74	45.32	27.36	16.82	31.56	318	323	P	V
		2484.76	48.51	-5.49	54	35.89	27.36	16.82	31.56	318	323	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 802.11b (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	56.38	-17.62	74	72.14	31.36	10.43	57.55	244	301	P	H
		4824	53.16	-0.84	54	68.92	31.36	10.43	57.55	244	301	A	H
		4824	55.61	-18.39	74	71.37	31.36	10.43	57.55	304	271	P	V
		4824	52.57	-1.43	54	68.33	31.36	10.43	57.55	304	271	A	V
802.11b CH 06 2437MHz		4874	55.54	-18.46	74	71.06	31.46	10.47	57.45	252	302	P	H
		4874	53.26	-0.74	54	68.78	31.46	10.47	57.45	252	302	A	H
		7311	53.28	-20.72	74	61.64	36.11	12.8	57.27	213	296	P	H
		7311	45.14	-8.86	54	53.5	36.11	12.8	57.27	213	296	A	H
		4874	55.67	-18.33	74	71.19	31.46	10.47	57.45	318	271	P	V
		4874	52.86	-1.14	54	68.38	31.46	10.47	57.45	318	271	A	V
		7311	52.25	-21.75	74	60.61	36.11	12.8	57.27	206	249	P	V
		7311	43.69	-10.31	54	52.05	36.11	12.8	57.27	206	249	A	V
802.11b CH 11 2462MHz		4924	56.15	-17.85	74	71.45	31.56	10.49	57.35	244	303	P	H
		4924	53.38	-0.62	54	68.68	31.56	10.49	57.35	244	303	A	H
		7386	51.97	-22.03	74	60.29	36.33	12.71	57.36	212	297	P	H
		7386	42.81	-11.19	54	51.13	36.33	12.71	57.36	212	297	A	H
		4924	56.15	-17.85	74	71.45	31.56	10.49	57.35	316	268	P	V
		4924	53.3	-0.7	54	68.6	31.56	10.49	57.35	316	268	A	V
		7386	50.65	-23.35	74	58.97	36.33	12.71	57.36	203	270	P	V
		7386	41.53	-12.47	54	49.85	36.33	12.71	57.36	203	270	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz		4934	56.14	-17.86	74	71.41	31.56	10.5	57.33	250	303	P	H
		4934	53.35	-0.65	54	68.62	31.56	10.5	57.33	250	303	A	H
		7401	51.48	-22.52	74	59.78	36.38	12.7	57.38	213	295	P	H
		7401	42.59	-11.41	54	50.89	36.38	12.7	57.38	213	295	A	H
		4934	55.48	-18.52	74	70.75	31.56	10.5	57.33	310	268	P	V
		4934	52.58	-1.42	54	67.85	31.56	10.5	57.33	310	268	A	V
		7401	51.01	-22.99	74	59.31	36.38	12.7	57.38	209	270	P	V
		7401	42.02	-11.98	54	50.32	36.38	12.7	57.38	209	270	A	V
802.11b CH 13 2472MHz		4944	52.55	-21.45	74	67.76	31.6	10.5	57.31	250	304	P	H
		4944	49.15	-4.85	54	64.36	31.6	10.5	57.31	250	304	A	H
		7416	46.92	-27.08	74	55.21	36.38	12.73	57.4	100	0	P	H
		4944	52.69	-21.31	74	67.9	31.6	10.5	57.31	366	274	P	V
		4944	49.26	-4.74	54	64.47	31.6	10.5	57.31	366	274	A	V
		7416	47.28	-26.72	74	55.57	36.38	12.73	57.4	100	0	P	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		2389.17	64.1	-9.9	74	51.85	27.15	16.68	31.58	294	233	P	H
		2390	52.53	-1.47	54	40.26	27.15	16.69	31.57	294	233	P	H
	*	2412	108.75	-	-	96.41	27.19	16.72	31.57	294	233	P	H
	*	2412	99.3	-	-	86.96	27.19	16.72	31.57	294	233	A	H
		2388.855	62.78	-11.22	74	50.53	27.15	16.68	31.58	334	155	P	V
		2389.905	51.35	-2.65	54	39.09	27.15	16.68	31.57	334	155	A	V
	*	2412	107.85	-	-	95.51	27.19	16.72	31.57	334	155	P	V
	*	2412	98.51	-	-	86.17	27.19	16.72	31.57	334	155	A	V
802.11g CH 06 2437MHz		2389.52	56.74	-17.26	74	44.49	27.15	16.68	31.58	288	233	P	H
		2389.52	45.06	-8.94	54	32.81	27.15	16.68	31.58	288	233	A	H
	*	2437	114.99	-	-	102.53	27.28	16.75	31.57	288	233	P	H
	*	2437	105.24	-	-	92.78	27.28	16.75	31.57	288	233	A	H
		2485.93	58.3	-15.7	74	45.68	27.36	16.82	31.56	288	233	P	H
		2483.62	46.56	-7.44	54	33.94	27.36	16.82	31.56	288	233	A	H
		2377.62	56.21	-17.79	74	44.01	27.11	16.67	31.58	400	158	P	V
		2388.68	44.72	-9.28	54	32.47	27.15	16.68	31.58	400	158	A	V
	*	2437	110.29	-	-	97.83	27.28	16.75	31.57	400	158	P	V
	*	2437	100.57	-	-	88.11	27.28	16.75	31.57	400	158	A	V
		2484.6	57.21	-16.79	74	44.59	27.36	16.82	31.56	400	158	P	V
		2484.53	45.31	-8.69	54	32.69	27.36	16.82	31.56	400	158	A	V



802.11g CH 11 2462MHz	*	2462	111.49	-	-	98.94	27.32	16.79	31.56	309	234	P	H
	*	2462	102.13	-	-	89.58	27.32	16.79	31.56	309	234	A	H
		2483.92	67.17	-6.83	74	54.55	27.36	16.82	31.56	309	234	P	H
		2483.5	52.73	-1.27	54	40.11	27.36	16.82	31.56	309	234	P	H
	*	2462	106.26	-	-	93.71	27.32	16.79	31.56	354	156	P	V
	*	2462	95.87	-	-	83.32	27.32	16.79	31.56	354	156	A	V
		2483.52	60.04	-13.96	74	47.42	27.36	16.82	31.56	354	156	P	V
		2483.68	47.1	-6.9	54	34.48	27.36	16.82	31.56	354	156	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	109.11	-	-	96.55	27.32	16.8	31.56	312	233	P	H
	*	2467	98.97	-	-	86.41	27.32	16.8	31.56	312	233	A	H
		2483.52	68.65	-5.35	74	56.03	27.36	16.82	31.56	312	233	P	H
		2483.52	53.15	-0.85	54	40.53	27.36	16.82	31.56	312	233	A	H
	*	2467	102.61	-	-	90.05	27.32	16.8	31.56	394	159	P	V
	*	2467	92.8	-	-	80.24	27.32	16.8	31.56	394	159	A	V
		2483.72	63.64	-10.36	74	51.02	27.36	16.82	31.56	394	159	P	V
		2483.52	48.85	-5.15	54	36.23	27.36	16.82	31.56	394	159	A	V
802.11g CH 13 2472MHz	*	2472	107	-	-	94.4	27.36	16.8	31.56	310	234	P	H
	*	2472	96.92	-	-	84.32	27.36	16.8	31.56	310	234	A	H
		2484.08	70.76	-3.24	74	58.14	27.36	16.82	31.56	310	234	P	H
		2483.52	53.37	-0.63	54	40.75	27.36	16.82	31.56	310	234	A	H
	*	2472	100.52	-	-	87.92	27.36	16.8	31.56	280	185	P	V
	*	2472	91.17	-	-	78.57	27.36	16.8	31.56	280	185	A	V
		2483.6	64.54	-9.46	74	51.92	27.36	16.82	31.56	280	185	P	V
		2483.56	48.73	-5.27	54	36.11	27.36	16.82	31.56	280	185	A	V
Remark	<p>1. No other spurious found.</p> <p>2. All results are PASS against Peak and Average limit line.</p>												



**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	57.64	-16.36	74	73.4	31.36	10.43	57.55	244	304	P	H
		4824	43.39	-10.61	54	59.15	31.36	10.43	57.55	244	304	A	H
		4824	57.04	-16.96	74	72.8	31.36	10.43	57.55	307	270	P	V
		4824	42.75	-11.25	54	58.51	31.36	10.43	57.55	307	270	A	V
802.11g CH 06 2437MHz		4874	60.82	-13.18	74	76.34	31.46	10.47	57.45	254	301	P	H
		4874	47.58	-6.42	54	63.1	31.46	10.47	57.45	254	301	A	H
		7311	67.29	-6.71	74	75.65	36.11	12.8	57.27	214	296	P	H
		7311	52.22	-1.78	54	60.58	36.11	12.8	57.27	214	296	A	H
		4874	61.14	-12.86	74	76.66	31.46	10.47	57.45	315	270	P	V
		4874	47.87	-6.13	54	63.39	31.46	10.47	57.45	315	270	A	V
		7311	66.11	-7.89	74	74.47	36.11	12.8	57.27	205	249	P	V
		7311	51.75	-2.25	54	60.11	36.11	12.8	57.27	205	249	A	V
802.11g CH 11 2462MHz		4924	56.11	-17.89	74	71.41	31.56	10.49	57.35	238	309	P	H
		4924	42.04	-11.96	54	57.34	31.56	10.49	57.35	238	309	A	H
		7386	55.62	-18.38	74	63.94	36.33	12.71	57.36	211	292	P	H
		7386	37.95	-16.05	54	46.27	36.33	12.71	57.36	211	292	A	H
		4924	56.47	-17.53	74	71.77	31.56	10.49	57.35	281	262	P	V
		4924	42.09	-11.91	54	57.39	31.56	10.49	57.35	281	262	A	V
		7386	55.83	-18.17	74	64.15	36.33	12.71	57.36	212	254	P	V
		7386	37.85	-16.15	54	46.17	36.33	12.71	57.36	212	254	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz		4934	47.67	-26.33	74	62.94	31.56	10.5	57.33	100	0	P	H
		7401	44.4	-29.6	74	52.7	36.38	12.7	57.38	100	0	P	H
		4934	52.31	-21.69	74	67.58	31.56	10.5	57.33	263	263	P	V
		4934	37.1	-16.9	54	52.37	31.56	10.5	57.33	263	263	A	V
		7401	44.7	-29.3	74	53	36.38	12.7	57.38	100	0	P	V
802.11g CH 13 2472MHz		4944	45.95	-28.05	74	61.16	31.6	10.5	57.31	100	0	P	H
		7416	45.09	-28.91	74	53.38	36.38	12.73	57.4	100	0	P	H
		4944	47.49	-26.51	74	62.7	31.6	10.5	57.31	100	0	P	V
		7416	44.33	-29.67	74	52.62	36.38	12.73	57.4	100	0	P	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	67.93	-6.07	74	55.66	27.15	16.69	31.57	291	218	P	H
		2390	52.43	-1.57	54	40.16	27.15	16.69	31.57	291	218	A	H
	*	2412	108.68	-	-	96.34	27.19	16.72	31.57	291	218	P	H
	*	2412	98.73	-	-	86.39	27.19	16.72	31.57	291	218	A	H
		2388.435	64.29	-9.71	74	52.04	27.15	16.68	31.58	300	327	P	V
		2390	50.75	-3.25	54	38.48	27.15	16.69	31.57	300	327	A	V
	*	2412	106.48	-	-	94.14	27.19	16.72	31.57	300	327	P	V
	*	2412	96.64	-	-	84.3	27.19	16.72	31.57	300	327	A	V
802.11n HT20 CH 06 2437MHz		2389.8	57.73	-16.27	74	45.47	27.15	16.68	31.57	315	222	P	H
		2389.8	44.83	-9.17	54	32.57	27.15	16.68	31.57	315	222	A	H
	*	2437	113.47	-	-	101.01	27.28	16.75	31.57	315	222	P	H
	*	2437	103.57	-	-	91.11	27.28	16.75	31.57	315	222	A	H
		2484.39	59.57	-14.43	74	46.95	27.36	16.82	31.56	315	222	P	H
		2484.39	45.99	-8.01	54	33.37	27.36	16.82	31.56	315	222	A	H
		2389.24	57.51	-16.49	74	45.26	27.15	16.68	31.58	233	325	P	V
		2386.44	44.81	-9.19	54	32.56	27.15	16.68	31.58	233	325	A	V
	*	2437	110.18	-	-	97.72	27.28	16.75	31.57	233	325	P	V
	*	2437	100.3	-	-	87.84	27.28	16.75	31.57	233	325	A	V
		2487.19	58.03	-15.97	74	45.4	27.36	16.83	31.56	233	325	P	V
		2485.3	45.14	-8.86	54	32.52	27.36	16.82	31.56	233	325	A	V



802.11n HT20 CH 11 2462MHz	*	2462	111.14	-	-	98.59	27.32	16.79	31.56	280	220	P	H
	*	2462	101.18	-	-	88.63	27.32	16.79	31.56	280	220	A	H
		2484.92	69.37	-4.63	74	56.75	27.36	16.82	31.56	280	220	P	H
		2483.52	53.14	-0.86	54	40.52	27.36	16.82	31.56	280	220	A	H
	*	2462	105.82	-	-	93.27	27.32	16.79	31.56	193	330	P	V
	*	2462	95.85	-	-	83.3	27.32	16.79	31.56	193	330	A	V
		2484.68	65.38	-8.62	74	52.76	27.36	16.82	31.56	193	330	P	V
		2483.52	48.97	-5.03	54	36.35	27.36	16.82	31.56	193	330	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	108.23	-	-	95.67	27.32	16.8	31.56	308	223	P	H
	*	2467	98.22	-	-	85.66	27.32	16.8	31.56	308	223	A	H
		2483.52	71.97	-2.03	74	59.35	27.36	16.82	31.56	308	223	P	H
		2483.56	52.63	-1.37	54	40.01	27.36	16.82	31.56	308	223	P	H
	*	2467	103.8	-	-	91.24	27.32	16.8	31.56	195	329	P	V
	*	2467	93.42	-	-	80.86	27.32	16.8	31.56	195	329	A	V
		2484.08	66.93	-7.07	74	54.31	27.36	16.82	31.56	195	329	P	V
	2483.52	48.95	-5.05	54	36.33	27.36	16.82	31.56	195	329	A	V	
802.11n HT20 CH 13 2472MHz	*	2472	105.47	-	-	92.87	27.36	16.8	31.56	309	223	P	H
	*	2472	95.06	-	-	82.46	27.36	16.8	31.56	309	223	A	H
		2483.56	72.04	-1.96	74	59.42	27.36	16.82	31.56	309	223	P	H
		2483.56	50.22	-3.78	54	37.6	27.36	16.82	31.56	309	223	A	H
	*	2472	100.48	-	-	87.88	27.36	16.8	31.56	198	328	P	V
	*	2472	89.9	-	-	77.3	27.36	16.8	31.56	198	328	A	V
		2484.12	67.5	-6.5	74	54.88	27.36	16.82	31.56	198	328	P	V
	2483.56	47.28	-6.72	54	34.66	27.36	16.82	31.56	198	328	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 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	57.91	-16.09	74	73.67	31.36	10.43	57.55	239	305	P	H
		4824	41.8	-12.2	54	57.56	31.36	10.43	57.55	239	305	A	H
		4824	57.76	-16.24	74	73.52	31.36	10.43	57.55	366	271	P	V
		4824	41.89	-12.11	54	57.65	31.36	10.43	57.55	366	271	A	V
802.11n HT20 CH 06 2437MHz		4874	61.12	-12.88	74	76.64	31.46	10.47	57.45	235	305	P	H
		4874	46.4	-7.6	54	61.92	31.46	10.47	57.45	235	305	A	H
		7311	65.68	-8.32	74	74.04	36.11	12.8	57.27	219	291	P	H
		7311	48.77	-5.23	54	57.13	36.11	12.8	57.27	219	291	A	H
		4874	60.71	-13.29	74	76.23	31.46	10.47	57.45	302	272	P	V
		4874	46.52	-7.48	54	62.04	31.46	10.47	57.45	302	272	A	V
		7311	65.27	-8.73	74	73.63	36.11	12.8	57.27	206	254	P	V
		7311	48.16	-5.84	54	56.52	36.11	12.8	57.27	206	254	A	V
802.11n HT20 CH 11 2462MHz		4924	58.04	-15.96	74	73.34	31.56	10.49	57.35	234	305	P	H
		4924	41.45	-12.55	54	56.75	31.56	10.49	57.35	234	305	A	H
		7386	56.47	-17.53	74	64.79	36.33	12.71	57.36	213	292	P	H
		7386	37.68	-16.32	54	46	36.33	12.71	57.36	213	292	A	H
		4924	58.21	-15.79	74	73.51	31.56	10.49	57.35	315	270	P	V
		4924	42.03	-11.97	54	57.33	31.56	10.49	57.35	315	270	A	V
		7386	55.68	-18.32	74	64	36.33	12.71	57.36	212	254	P	V
		7386	37.3	-16.7	54	45.62	36.33	12.71	57.36	212	254	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz		4934	54.01	-19.99	74	69.28	31.56	10.5	57.33	248	306	P	H
		4934	37.52	-16.48	54	52.79	31.56	10.5	57.33	248	306	A	H
		7401	46.86	-27.14	74	55.16	36.38	12.7	57.38	100	0	P	H
		4934	54.18	-19.82	74	69.45	31.56	10.5	57.33	312	271	P	V
		4934	37.53	-16.47	54	52.8	31.56	10.5	57.33	312	271	A	V
		7401	45.19	-28.81	74	53.49	36.38	12.7	57.38	100	0	P	V
802.11n HT20 CH 13 2472MHz		4944	45.09	-28.91	74	60.3	31.6	10.5	57.31	100	0	P	H
		7416	45.85	-28.15	74	54.14	36.38	12.73	57.4	100	0	P	H
		4944	47.04	-26.96	74	62.25	31.6	10.5	57.31	100	0	P	V
		7416	45.4	-28.6	74	53.69	36.38	12.73	57.4	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 802.11b (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 802.11b LF		59.97	33.47	-6.53	40	51.05	11.78	1.1	30.46	100	0	P	H
		135.03	29.06	-14.44	43.5	40.59	17.22	1.64	30.39	-	-	P	H
		220.35	31.34	-14.66	46	44.4	15.05	2.17	30.28	-	-	P	H
		309.1	31.09	-14.91	46	39.53	19.19	2.5	30.13	-	-	P	H
		902.7	38.38	-7.62	46	34.28	28.97	4.26	29.13	-	-	P	H
		986	34.21	-19.79	54	28.1	30.51	4.49	28.89	-	-	P	H
		43.5	30.83	-9.17	40	43.11	17.19	0.91	30.38	-	-	P	V
		105.06	25.66	-17.84	43.5	38.23	16.4	1.45	30.42	-	-	P	V
		224.4	24.87	-21.13	46	37.5	15.46	2.19	30.28	-	-	P	V
		531.7	28.88	-17.12	46	31.54	23.83	3.24	29.73	-	-	P	V
		747.3	39.68	-6.32	46	37.4	27.87	3.82	29.41	100	0	P	V
	966.4	34.02	-19.98	54	27.64	30.88	4.45	28.95	-	-	P	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	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)
802.11b CH 01 2412MHz		2387.49	60.3	-13.7	74	48.05	27.15	16.68	31.58	281	224	P	H
		2387.07	53.2	-0.8	54	40.95	27.15	16.68	31.58	281	224	A	H
	*	2412	114.66	-	-	102.32	27.19	16.72	31.57	281	224	P	H
	*	2412	110.37	-	-	98.03	27.19	16.72	31.57	281	224	A	H
		2385.495	56.48	-17.52	74	44.27	27.11	16.68	31.58	100	0	P	V
		2386.23	44.49	-9.51	54	32.24	27.15	16.68	31.58	100	0	A	V
	*	2412	102.14	-	-	89.8	27.19	16.72	31.57	100	0	P	V
	*	2412	97.67	-	-	85.33	27.19	16.72	31.57	100	0	A	V
802.11b CH 06 2437MHz		2388.68	56.46	-17.54	74	44.21	27.15	16.68	31.58	303	226	P	H
		2389.1	45.76	-8.24	54	33.51	27.15	16.68	31.58	303	226	A	H
	*	2437	116.76	-	-	104.3	27.28	16.75	31.57	303	226	P	H
	*	2437	112.32	-	-	99.86	27.28	16.75	31.57	303	226	A	H
		2492.93	57.17	-16.83	74	44.49	27.4	16.83	31.55	303	226	P	H
		2499.16	44.27	-9.73	54	31.58	27.4	16.84	31.55	303	226	A	H
		2380.42	55.72	-18.28	74	43.52	27.11	16.67	31.58	392	286	P	V
		2389.52	44.37	-9.63	54	32.12	27.15	16.68	31.58	392	286	A	V
	*	2437	112.16	-	-	99.7	27.28	16.75	31.57	392	286	P	V
	*	2437	107.73	-	-	95.27	27.28	16.75	31.57	392	286	A	V
		2499.58	55.58	-18.42	74	42.89	27.4	16.84	31.55	392	286	P	V
		2484.81	44.23	-9.77	54	31.61	27.36	16.82	31.56	392	286	A	V



802.11b CH 11 2462MHz	*	2462	114.04	-	-	101.49	27.32	16.79	31.56	306	226	P	H
	*	2462	109.7	-	-	97.15	27.32	16.79	31.56	306	226	A	H
		2489.28	57.55	-16.45	74	44.88	27.4	16.83	31.56	306	226	P	H
		2483.52	47.71	-6.29	54	35.09	27.36	16.82	31.56	306	226	A	H
	*	2462	111.11	-	-	98.56	27.32	16.79	31.56	196	167	P	V
	*	2462	106.72	-	-	94.17	27.32	16.79	31.56	196	167	A	V
		2487.68	60.43	-13.57	74	47.76	27.4	16.83	31.56	196	167	P	V
		2487.76	53.34	-0.66	54	40.67	27.4	16.83	31.56	196	167	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	110.68	-	-	98.12	27.32	16.8	31.56	297	226	P	H
	*	2467	106.34	-	-	93.78	27.32	16.8	31.56	297	226	A	H
		2483.88	57.58	-16.42	74	44.96	27.36	16.82	31.56	297	226	P	H
		2484.44	47.13	-6.87	54	34.51	27.36	16.82	31.56	297	226	A	H
	*	2467	108.75	-	-	96.19	27.32	16.8	31.56	168	163	P	V
	*	2467	104.22	-	-	91.66	27.32	16.8	31.56	168	163	A	V
		2483.76	60.56	-13.44	74	47.94	27.36	16.82	31.56	168	163	P	V
		2484.72	52.63	-1.37	54	40.01	27.36	16.82	31.56	168	163	A	V
802.11b CH 13 2472MHz	*	2472	103.42	-	-	90.82	27.36	16.8	31.56	298	227	P	H
	*	2472	98.85	-	-	86.25	27.36	16.8	31.56	298	227	A	H
		2484.24	57.14	-16.86	74	44.52	27.36	16.82	31.56	298	227	P	H
		2484.8	46.76	-7.24	54	34.14	27.36	16.82	31.56	298	227	A	H
	*	2472	102.51	-	-	89.91	27.36	16.8	31.56	100	160	P	V
	*	2472	97.96	-	-	85.36	27.36	16.8	31.56	100	160	A	V
		2484.88	60.04	-13.96	74	47.42	27.36	16.82	31.56	100	160	P	V
		2484.8	52.94	-1.06	54	40.32	27.36	16.82	31.56	100	160	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 802.11b (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	45.45	-28.55	74	61.21	31.36	10.43	57.55	100	0	P	H
		4824	46.14	-27.86	74	61.9	31.36	10.43	57.55	100	0	P	V
802.11b CH 06 2437MHz		4874	49.32	-24.68	74	64.84	31.46	10.47	57.45	229	240	P	H
		4874	45.31	-8.69	54	60.83	31.46	10.47	57.45	229	240	A	H
		7311	52.55	-21.45	74	60.91	36.11	12.8	57.27	211	11	P	H
		7311	43.56	-10.44	54	51.92	36.11	12.8	57.27	211	11	A	H
		4874	49.76	-24.24	74	65.28	31.46	10.47	57.45	303	272	P	V
		4874	45.93	-8.07	54	61.45	31.46	10.47	57.45	303	272	A	V
802.11b CH 11 2462MHz		7311	48.94	-25.06	74	57.3	36.11	12.8	57.27	100	0	P	V
		4924	46.47	-27.53	74	61.77	31.56	10.49	57.35	100	0	P	H
		7386	50.7	-23.3	74	59.02	36.33	12.71	57.36	226	182	P	H
		7386	41.97	-12.03	54	50.29	36.33	12.71	57.36	226	182	A	H
		4924	47.01	-26.99	74	62.31	31.56	10.49	57.35	100	0	P	V
		7386	46.97	-27.03	74	55.29	36.33	12.71	57.36	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz		4934	44.63	-29.37	74	59.9	31.56	10.5	57.33	100	0	P	H
		7401	45.68	-28.32	74	53.98	36.38	12.7	57.38	100	0	P	H
		4934	44	-30	74	59.27	31.56	10.5	57.33	100	0	P	V
		7401	44.66	-29.34	74	52.96	36.38	12.7	57.38	100	0	P	V
802.11b CH 13 2472MHz		4944	40.54	-33.46	74	55.75	31.6	10.5	57.31	100	0	P	H
		7416	45.1	-28.9	74	53.39	36.38	12.73	57.4	100	0	P	H
		4944	40.67	-33.33	74	55.88	31.6	10.5	57.31	100	0	P	V
		7416	44.55	-29.45	74	52.84	36.38	12.73	57.4	100	0	P	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)

Table with 14 columns: 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). Rows include data for 802.11g CH 01 (2412MHz) and CH 06 (2437MHz).



802.11g CH 11 2462MHz	*	2462	111.67	-	-	99.12	27.32	16.79	31.56	297	230	P	H
	*	2462	101.09	-	-	88.54	27.32	16.79	31.56	297	230	A	H
		2483.8	61.79	-12.21	74	49.17	27.36	16.82	31.56	297	230	P	H
		2483.64	48.81	-5.19	54	36.19	27.36	16.82	31.56	297	230	A	H
	*	2462	106.84	-	-	94.29	27.32	16.79	31.56	182	177	P	V
	*	2462	97.81	-	-	85.26	27.32	16.79	31.56	182	177	A	V
		2483.68	70.16	-3.84	74	57.54	27.36	16.82	31.56	182	177	P	V
		2483.52	52.82	-1.18	54	40.2	27.36	16.82	31.56	182	177	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	108.12	-	-	95.56	27.32	16.8	31.56	298	227	P	H
	*	2467	97.84	-	-	85.28	27.32	16.8	31.56	298	227	A	H
		2483.52	65.35	-8.65	74	52.73	27.36	16.82	31.56	298	227	P	H
		2483.64	48.2	-5.8	54	35.58	27.36	16.82	31.56	298	227	A	H
	*	2467	104.81	-	-	92.25	27.32	16.8	31.56	168	160	P	V
	*	2467	95.37	-	-	82.81	27.32	16.8	31.56	168	160	A	V
		2483.56	70.26	-3.74	74	57.64	27.36	16.82	31.56	168	160	P	V
		2483.52	52.72	-1.28	54	40.1	27.36	16.82	31.56	168	160	A	V
802.11g CH 13 2472MHz	*	2472	105.62	-	-	93.02	27.36	16.8	31.56	299	229	P	H
	*	2472	95.69	-	-	83.09	27.36	16.8	31.56	299	229	A	H
		2484	65.9	-8.1	74	53.28	27.36	16.82	31.56	299	229	P	H
		2483.52	48.39	-5.61	54	35.77	27.36	16.82	31.56	299	229	A	H
	*	2472	104	-	-	91.4	27.36	16.8	31.56	100	152	P	V
	*	2472	94.91	-	-	82.31	27.36	16.8	31.56	100	152	A	V
		2483.64	72.4	-1.6	74	59.78	27.36	16.82	31.56	100	152	P	V
		2483.56	53.07	-0.93	54	40.45	27.36	16.82	31.56	100	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 802.11g (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).

Remark

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



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 12 2467MHz		4934	41.11	-32.89	74	56.38	31.56	10.5	57.33	100	0	P	H
		7401	43.66	-30.34	74	51.96	36.38	12.7	57.38	100	0	P	H
		4934	41.81	-32.19	74	57.08	31.56	10.5	57.33	100	0	P	V
		7401	44.28	-29.72	74	52.58	36.38	12.7	57.38	100	0	P	V
802.11g CH 13 2472MHz		4944	41.17	-32.83	74	56.38	31.6	10.5	57.31	100	0	P	H
		7416	45.06	-28.94	74	53.35	36.38	12.73	57.4	100	0	P	H
		4944	41.33	-32.67	74	56.54	31.6	10.5	57.31	100	0	P	V
		7416	44.14	-29.86	74	52.43	36.38	12.73	57.4	100	0	P	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		2389.905	71.39	-2.61	74	59.13	27.15	16.68	31.57	283	224	P	H
		2390	52.97	-1.03	54	40.7	27.15	16.69	31.57	283	224	A	H
	*	2412	111.55	-	-	99.21	27.19	16.72	31.57	283	224	P	H
	*	2412	101.88	-	-	89.54	27.19	16.72	31.57	283	224	A	H
		2389.905	63.27	-10.73	74	51.01	27.15	16.68	31.57	398	303	P	V
		2390	47.17	-6.83	54	34.9	27.15	16.69	31.57	398	303	A	V
	*	2412	106.12	-	-	93.78	27.19	16.72	31.57	398	303	P	V
	*	2412	96.8	-	-	84.46	27.19	16.72	31.57	398	303	A	V
802.11n HT20 CH 06 2437MHz		2389.66	64.56	-9.44	74	52.31	27.15	16.68	31.58	309	226	P	H
		2389.8	47.63	-6.37	54	35.37	27.15	16.68	31.57	309	226	A	H
	*	2437	115.59	-	-	103.13	27.28	16.75	31.57	309	226	P	H
	*	2437	105.62	-	-	93.16	27.28	16.75	31.57	309	226	A	H
		2483.9	56.97	-17.03	74	44.35	27.36	16.82	31.56	309	226	P	H
		2490.9	45.21	-8.79	54	32.54	27.4	16.83	31.56	309	226	A	H
		2389.8	59.93	-14.07	74	47.67	27.15	16.68	31.57	393	286	P	V
		2389.8	45.54	-8.46	54	33.28	27.15	16.68	31.57	393	286	A	V
	*	2437	111.27	-	-	98.81	27.28	16.75	31.57	393	286	P	V
	*	2437	101.26	-	-	88.8	27.28	16.75	31.57	393	286	A	V
		2483.83	58.17	-15.83	74	45.55	27.36	16.82	31.56	393	286	P	V
	2485.37	45.28	-8.72	54	32.66	27.36	16.82	31.56	393	286	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	110.07	-	-	97.52	27.32	16.79	31.56	295	228	P	H
	*	2462	100.25	-	-	87.7	27.32	16.79	31.56	295	228	A	H
		2483.84	63.89	-10.11	74	51.27	27.36	16.82	31.56	295	228	P	H
		2483.52	49.37	-4.63	54	36.75	27.36	16.82	31.56	295	228	A	H
	*	2462	106.72	-	-	94.17	27.32	16.79	31.56	198	170	P	V
	*	2462	97.03	-	-	84.48	27.32	16.79	31.56	198	170	A	V
		2483.6	68.29	-5.71	74	55.67	27.36	16.82	31.56	198	170	P	V
		2483.6	52.97	-1.03	54	40.35	27.36	16.82	31.56	198	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	104.43	-	-	91.87	27.32	16.8	31.56	297	230	P	H
	*	2467	93.99	-	-	81.43	27.32	16.8	31.56	297	230	A	H
		2483.92	62.49	-11.51	74	49.87	27.36	16.82	31.56	297	230	P	H
		2483.52	47.29	-6.71	54	34.67	27.36	16.82	31.56	297	230	A	H
	*	2467	102.43	-	-	89.87	27.32	16.8	31.56	169	161	P	V
	*	2467	92.31	-	-	79.75	27.32	16.8	31.56	169	161	A	V
		2483.52	69.31	-4.69	74	56.69	27.36	16.82	31.56	169	161	P	V
		2483.56	52.1	-1.9	54	39.48	27.36	16.82	31.56	169	161	A	V
802.11n HT20 CH 13 2472MHz	*	2472	102.46	-	-	89.86	27.36	16.8	31.56	299	225	P	H
	*	2472	92.04	-	-	79.44	27.36	16.8	31.56	299	225	A	H
		2483.56	67.8	-6.2	74	55.18	27.36	16.82	31.56	299	225	P	H
		2483.52	48.45	-5.55	54	35.83	27.36	16.82	31.56	299	225	A	H
	*	2472	101.96	-	-	89.36	27.36	16.8	31.56	113	164	P	V
	*	2472	91.36	-	-	78.76	27.36	16.8	31.56	113	164	A	V
			2483.52	73.04	-0.96	74	60.42	27.36	16.82	31.56	113	164	P
		2484.24	52.77	-1.23	54	40.15	27.36	16.82	31.56	113	164	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 HT20 (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for 802.11n HT20 CH 01 (2412MHz) and CH 06 (2437MHz), and 802.11n HT20 CH 11 (2462MHz). A Remark section at the bottom states: 1. No other spurious found. 2. All results are PASS against Peak and Average limit line.



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		4934	40.93	-33.07	74	56.2	31.56	10.5	57.33	100	0	P	H
HT20		7401	44.96	-29.04	74	53.26	36.38	12.7	57.38	100	0	P	H
CH 12		4934	41.45	-32.55	74	56.72	31.56	10.5	57.33	100	0	P	V
2467MHz		7401	43.82	-30.18	74	52.12	36.38	12.7	57.38	100	0	P	V
802.11n		4944	41.1	-32.9	74	56.31	31.6	10.5	57.31	100	0	P	H
HT20		7416	44.51	-29.49	74	52.8	36.38	12.73	57.4	100	0	P	H
CH 13		4944	41.6	-32.4	74	56.81	31.6	10.5	57.31	100	0	P	V
2472MHz		7416	45.02	-28.98	74	53.31	36.38	12.73	57.4	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 802.11g (LF)

Table with 14 columns: WIFI, Note, Frequency, Level, Over, Limit, Read, Antenna, Path, Preamp, Ant, Table, Peak, Pol. It contains 12 rows of test data for 2.4GHz WIFI 802.11g LF and a Remark section at the bottom.



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2385.285	57.31	-16.69	74	45.1	27.11	16.68	31.58	140	206	P	H
		2387.175	45.61	-8.39	54	33.36	27.15	16.68	31.58	140	206	A	H
	*	2412	114.14	-	-	101.8	27.19	16.72	31.57	140	206	P	H
	*	2412	109.57	-	-	97.23	27.19	16.72	31.57	140	206	A	H
		2387.385	55.93	-18.07	74	43.68	27.15	16.68	31.58	201	359	P	V
		2387.385	44.07	-9.93	54	31.82	27.15	16.68	31.58	201	359	A	V
	*	2412	108.31	-	-	95.97	27.19	16.72	31.57	201	359	P	V
	*	2412	103.82	-	-	91.48	27.19	16.72	31.57	201	359	A	V
802.11b CH 06 2437MHz		2360.82	56.02	-17.98	74	43.89	27.07	16.64	31.58	134	206	P	H
		2389.94	44.37	-9.63	54	32.11	27.15	16.68	31.57	134	206	A	H
	*	2437	114.4	-	-	101.94	27.28	16.75	31.57	134	206	P	H
	*	2437	109.63	-	-	97.17	27.28	16.75	31.57	134	206	A	H
		2498.04	56.87	-17.13	74	44.18	27.4	16.84	31.55	134	206	P	H
		2484.04	44.19	-9.81	54	31.57	27.36	16.82	31.56	134	206	A	H
		2355.08	56.05	-17.95	74	43.93	27.07	16.63	31.58	131	358	P	V
		2386.16	43.84	-10.16	54	31.59	27.15	16.68	31.58	131	358	A	V
	*	2437	107.51	-	-	95.05	27.28	16.75	31.57	131	358	P	V
	*	2437	102.9	-	-	90.44	27.28	16.75	31.57	131	358	A	V
		2492.72	56.73	-17.27	74	44.05	27.4	16.83	31.55	131	358	P	V
		2486	44.21	-9.79	54	31.59	27.36	16.82	31.56	131	358	A	V



802.11b CH 11 2462MHz	*	2462	113.84	-	-	101.29	27.32	16.79	31.56	278	223	P	H
	*	2462	109.32	-	-	96.77	27.32	16.79	31.56	278	223	A	H
		2488	58.18	-15.82	74	45.51	27.4	16.83	31.56	278	223	P	H
		2487.8	45.4	-8.6	54	32.73	27.4	16.83	31.56	278	223	A	H
	*	2462	110.62	-	-	98.07	27.32	16.79	31.56	181	170	P	V
	*	2462	106.36	-	-	93.81	27.32	16.79	31.56	181	170	A	V
		2488.16	57.03	-16.97	74	44.36	27.4	16.83	31.56	181	170	P	V
		2487.76	45.71	-8.29	54	33.04	27.4	16.83	31.56	181	170	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	113	-	-	100.44	27.32	16.8	31.56	278	223	P	H
	*	2467	108.35	-	-	95.79	27.32	16.8	31.56	278	223	A	H
		2483.8	59.47	-14.53	74	46.85	27.36	16.82	31.56	278	223	P	H
		2484.2	50.4	-3.6	54	37.78	27.36	16.82	31.56	278	223	A	H
	*	2467	107.86	-	-	95.3	27.32	16.8	31.56	350	274	P	V
	*	2467	103.26	-	-	90.7	27.32	16.8	31.56	350	274	A	V
		2483.64	57.14	-16.86	74	44.52	27.36	16.82	31.56	350	274	P	V
		2483.52	46.75	-7.25	54	34.13	27.36	16.82	31.56	350	274	A	V
802.11b CH 13 2472MHz	*	2472	108.34	-	-	95.74	27.36	16.8	31.56	271	223	P	H
	*	2472	103.77	-	-	91.17	27.36	16.8	31.56	271	223	A	H
		2484.52	59.94	-14.06	74	47.32	27.36	16.82	31.56	271	223	P	H
		2484.76	52.1	-1.9	54	39.48	27.36	16.82	31.56	271	223	A	H
	*	2472	103.48	-	-	90.88	27.36	16.8	31.56	342	276	P	V
	*	2472	98.73	-	-	86.13	27.36	16.8	31.56	342	276	A	V
		2485.88	58.37	-15.63	74	45.75	27.36	16.82	31.56	342	276	P	V
		2484.72	49.12	-4.88	54	36.5	27.36	16.82	31.56	342	276	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 802.11b (Harmonic @ 3m)

Table with 14 columns: 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). Rows include data for CH 01 (2412MHz), CH 06 (2437MHz), and CH 11 (2462MHz).

Remark

- 1. No other spurious found.
2. All results are PASS against Peak and Average limit line.



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 12 2467MHz		4934	55.88	-18.12	74	71.15	31.56	10.5	57.33	248	304	P	H
		4934	53.05	-0.95	54	68.32	31.56	10.5	57.33	248	304	A	H
		7401	55.65	-18.35	74	63.95	36.38	12.7	57.38	213	293	P	H
		7401	48.82	-5.18	54	57.12	36.38	12.7	57.38	213	293	A	H
		4934	56.03	-17.97	74	71.3	31.56	10.5	57.33	335	269	P	V
		4934	53.16	-0.84	54	68.43	31.56	10.5	57.33	335	269	A	V
		7401	55.36	-18.64	74	63.66	36.38	12.7	57.38	213	253	P	V
		7401	47.23	-6.77	54	55.53	36.38	12.7	57.38	213	253	A	V
802.11b CH 13 2472MHz		4944	47.67	-26.33	74	62.88	31.6	10.5	57.31	100	0	P	H
		7416	46.56	-27.44	74	54.85	36.38	12.73	57.4	100	0	P	H
		4944	48.77	-25.23	74	63.98	31.6	10.5	57.31	100	0	P	V
		7416	46.54	-27.46	74	54.83	36.38	12.73	57.4	100	0	P	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



2.4GHz 2400~2483.5MHz
WIFI 802.11g (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		2388.225	66.08	-7.92	74	53.83	27.15	16.68	31.58	284	223	P	H
		2390	52.88	-1.12	54	40.61	27.15	16.69	31.57	284	223	A	H
	*	2412	114.22	-	-	101.88	27.19	16.72	31.57	284	223	P	H
	*	2412	104.97	-	-	92.63	27.19	16.72	31.57	284	223	A	H
		2389.905	61.7	-12.3	74	49.44	27.15	16.68	31.57	206	168	P	V
		2390	50.12	-3.88	54	37.85	27.15	16.69	31.57	206	168	A	V
	*	2412	109.08	-	-	96.74	27.19	16.72	31.57	206	168	P	V
	*	2412	99.47	-	-	87.13	27.19	16.72	31.57	206	168	A	V
802.11g CH 06 2437MHz		2389.8	63.1	-10.9	74	50.84	27.15	16.68	31.57	284	221	P	H
		2389.94	47.48	-6.52	54	35.22	27.15	16.68	31.57	284	221	A	H
	*	2437	119.04	-	-	106.58	27.28	16.75	31.57	284	221	P	H
	*	2437	109.5	-	-	97.04	27.28	16.75	31.57	284	221	A	H
		2485.02	59.48	-14.52	74	46.86	27.36	16.82	31.56	284	221	P	H
		2486.21	45.99	-8.01	54	33.36	27.36	16.83	31.56	284	221	A	H
		2388.26	57.86	-16.14	74	45.61	27.15	16.68	31.58	400	262	P	V
		2387.14	45.07	-8.93	54	32.82	27.15	16.68	31.58	400	262	A	V
	*	2437	112.55	-	-	100.09	27.28	16.75	31.57	400	262	P	V
	*	2437	103.28	-	-	90.82	27.28	16.75	31.57	400	262	A	V
		2488.94	56.25	-17.75	74	43.58	27.4	16.83	31.56	400	262	P	V
		2496.64	44.9	-9.1	54	32.21	27.4	16.84	31.55	400	262	A	V



802.11g CH 11 2462MHz	*	2462	114.59	-	-	102.04	27.32	16.79	31.56	278	224	P	H
	*	2462	105.58	-	-	93.03	27.32	16.79	31.56	278	224	A	H
		2484.32	67.54	-6.46	74	54.92	27.36	16.82	31.56	278	224	P	H
		2483.52	52.19	-1.81	54	39.57	27.36	16.82	31.56	278	224	A	H
	*	2462	109.9	-	-	97.35	27.32	16.79	31.56	124	339	P	V
	*	2462	100.69	-	-	88.14	27.32	16.79	31.56	124	339	A	V
		2484.48	66.05	-7.95	74	53.43	27.36	16.82	31.56	124	339	P	V
		2484.92	50.22	-3.78	54	37.6	27.36	16.82	31.56	124	339	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	108.86	-	-	96.3	27.32	16.8	31.56	279	224	P	H
	*	2467	99.29	-	-	86.73	27.32	16.8	31.56	279	224	A	H
		2483.68	68.61	-5.39	74	55.99	27.36	16.82	31.56	279	224	P	H
		2483.52	51.93	-2.07	54	39.31	27.36	16.82	31.56	279	224	A	H
	*	2467	105.22	-	-	92.66	27.32	16.8	31.56	184	176	P	V
	*	2467	95.9	-	-	83.34	27.32	16.8	31.56	184	176	A	V
		2483.56	68.29	-5.71	74	55.67	27.36	16.82	31.56	184	176	P	V
		2483.64	51.82	-2.18	54	39.2	27.36	16.82	31.56	184	176	A	V
802.11g CH 13 2472MHz	*	2472	106.71	-	-	94.15	27.32	16.8	31.56	279	223	P	H
	*	2472	97.15	-	-	84.54	27.36	16.81	31.56	279	223	A	H
		2484.44	66.9	-7.1	74	54.28	27.36	16.82	31.56	279	223	P	H
		2484.04	51.16	-2.84	54	38.54	27.36	16.82	31.56	279	223	A	H
	*	2472	103.41	-	-	90.8	27.36	16.81	31.56	280	178	P	V
	*	2472	94.37	-	-	81.76	27.36	16.81	31.56	280	178	A	V
		2484.32	67.87	-6.13	74	55.25	27.36	16.82	31.56	280	178	P	V
		2483.64	52.98	-1.02	54	40.36	27.36	16.82	31.56	280	178	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 802.11g (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	52.33	-21.67	74	68.07	31.36	10.44	57.54	247	302	P	H
		4824	40.86	-13.14	54	56.6	31.36	10.44	57.54	247	302	A	H
		4824	50.36	-23.64	74	66.1	31.36	10.44	57.54	310	273	P	V
		4824	41.1	-12.9	54	56.84	31.36	10.44	57.54	310	273	A	V
802.11g CH 06 2437MHz		4874	53.85	-20.15	74	69.37	31.46	10.47	57.45	238	236	P	H
		4874	46.48	-7.52	54	62	31.46	10.47	57.45	238	236	A	H
		7311	60.4	-13.6	74	68.76	36.11	12.8	57.27	228	295	P	H
		7311	49.55	-4.45	54	57.91	36.11	12.8	57.27	228	295	A	H
		4874	55.07	-18.93	74	70.59	31.46	10.47	57.45	306	263	P	V
		4874	46.31	-7.69	54	61.83	31.46	10.47	57.45	306	263	A	V
		7311	60.47	-13.53	74	68.83	36.11	12.8	57.27	199	255	P	V
		7311	49.67	-4.33	54	58.03	36.11	12.8	57.27	199	255	A	V
802.11g CH 11 2462MHz		4924	50.99	-23.01	74	66.29	31.56	10.49	57.35	246	300	P	H
		4924	42	-12	54	57.3	31.56	10.49	57.35	246	300	A	H
		7386	52.83	-21.17	74	61.15	36.33	12.71	57.36	216	234	P	H
		7386	41.01	-12.99	54	49.33	36.33	12.71	57.36	216	234	A	H
		4924	52.85	-21.15	74	68.15	31.56	10.49	57.35	374	260	P	V
		4924	41.85	-12.15	54	57.15	31.56	10.49	57.35	374	260	A	V
		7386	53.2	-20.8	74	61.55	36.29	12.72	57.36	214	251	P	V
		7386	41.26	-12.74	54	49.61	36.29	12.72	57.36	214	251	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz		4934	45.31	-28.69	74	60.58	31.56	10.5	57.33	100	0	P	H
		7401	44.7	-29.3	74	53	36.38	12.7	57.38	100	0	P	H
		4934	45.81	-28.19	74	61.08	31.56	10.5	57.33	100	0	P	V
		7401	45.05	-28.95	74	53.35	36.38	12.7	57.38	100	0	P	V
802.11g CH 13 2472MHz		4944	43.13	-30.87	74	58.34	31.6	10.5	57.31	100	0	P	H
		7416	44.27	-29.73	74	52.56	36.38	12.73	57.4	100	0	P	H
		4944	43.95	-30.05	74	59.16	31.6	10.5	57.31	100	0	P	V
		7416	44.59	-29.41	74	52.88	36.38	12.73	57.4	100	0	P	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)

Table with 14 columns: 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). Rows include data for 802.11n HT20 CH 01 (2412MHz) and 802.11n HT20 CH 06 (2437MHz).



802.11n HT20 CH 11 2462MHz	*	2462	112.01	-	-	99.45	27.32	16.8	31.56	279	223	P	H
	*	2462	102.46	-	-	89.91	27.32	16.79	31.56	279	223	A	H
		2483.84	68.02	-5.98	74	55.4	27.36	16.82	31.56	279	223	P	H
		2483.8	52.24	-1.76	54	39.62	27.36	16.82	31.56	279	223	A	H
	*	2462	107.65	-	-	95.1	27.32	16.79	31.56	182	175	P	V
	*	2462	97.78	-	-	85.23	27.32	16.79	31.56	182	175	A	V
		2483.56	67.22	-6.78	74	54.6	27.36	16.82	31.56	182	175	P	V
		2483.8	51.1	-2.9	54	38.48	27.36	16.82	31.56	182	175	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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 12 2467MHz	*	2467	107.85	-	-	95.29	27.32	16.8	31.56	278	223	P	H
	*	2467	98.53	-	-	85.97	27.32	16.8	31.56	278	223	A	H
		2485	67.24	-6.76	74	54.62	27.36	16.82	31.56	278	223	P	H
		2483.52	50.43	-3.57	54	37.81	27.36	16.82	31.56	278	223	A	H
	*	2467	103.01	-	-	90.45	27.32	16.8	31.56	279	154	P	V
	*	2467	93.69	-	-	81.13	27.32	16.8	31.56	279	154	A	V
		2484.72	69.62	-4.38	74	57	27.36	16.82	31.56	279	154	P	V
		2483.52	52.17	-1.83	54	39.55	27.36	16.82	31.56	279	154	A	V
802.11n HT20 CH 13 2472MHz	*	2472	105.35	-	-	92.75	27.36	16.8	31.56	279	224	P	H
	*	2472	96.34	-	-	83.74	27.36	16.8	31.56	279	224	A	H
		2485.08	70.17	-3.83	74	57.55	27.36	16.82	31.56	279	224	P	H
		2483.56	51.38	-2.62	54	38.76	27.36	16.82	31.56	279	224	A	H
	*	2472	102.3	-	-	89.69	27.36	16.81	31.56	280	168	P	V
	*	2472	92.45	-	-	79.84	27.36	16.81	31.56	280	168	A	V
		2483.8	73.2	-0.8	74	60.58	27.36	16.82	31.56	280	168	P	V
		2483.56	53.28	-0.72	54	40.66	27.36	16.82	31.56	280	168	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 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	47.94	-26.06	74	63.7	31.36	10.43	57.55	244	299	P	H
		4824	38.84	-15.16	54	54.6	31.36	10.43	57.55	244	299	A	H
		4824	49.42	-24.58	74	65.18	31.36	10.43	57.55	305	272	P	V
		4824	38.5	-15.5	54	54.26	31.36	10.43	57.55	305	272	A	V
802.11n HT20 CH 06 2437MHz		4874	54.41	-19.59	74	69.93	31.46	10.47	57.45	242	309	P	H
		4874	43.82	-10.18	54	59.34	31.46	10.47	57.45	242	309	A	H
		7311	62.16	-11.84	74	70.52	36.11	12.8	57.27	217	292	P	H
		7311	48.72	-5.28	54	57.08	36.11	12.8	57.27	217	292	A	H
		4874	56.29	-17.71	74	71.81	31.46	10.47	57.45	304	261	P	V
		4874	45.2	-8.8	54	60.72	31.46	10.47	57.45	304	261	A	V
		7311	61.91	-12.09	74	70.27	36.11	12.8	57.27	198	270	P	V
		7311	47.68	-6.32	54	56.04	36.11	12.8	57.27	198	270	A	V
802.11n HT20 CH 11 2462MHz		4924	51.1	-22.9	74	66.4	31.56	10.49	57.35	242	303	P	H
		4924	39.24	-14.76	54	54.54	31.56	10.49	57.35	242	303	A	H
		7386	51.39	-22.61	74	59.71	36.33	12.71	57.36	217	293	P	H
		7386	37.06	-16.94	54	45.38	36.33	12.71	57.36	217	293	A	H
		4924	51.97	-22.03	74	67.27	31.56	10.49	57.35	265	278	P	V
		4924	40.06	-13.94	54	55.36	31.56	10.49	57.35	265	278	A	V
			7386	49.2	-24.8	74	57.52	36.33	12.71	57.36	100	0	P
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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		4934	45.11	-28.89	74	60.38	31.56	10.5	57.33	100	0	P	H
HT20		7401	44.52	-29.48	74	52.82	36.38	12.7	57.38	100	0	P	H
CH 12		4934	47.19	-26.81	74	62.46	31.56	10.5	57.33	100	0	P	V
2467MHz		7401	44.13	-29.87	74	52.43	36.38	12.7	57.38	100	0	P	V
802.11n		4944	43.77	-30.23	74	58.98	31.6	10.5	57.31	100	0	P	H
HT20		7416	44.07	-29.93	74	52.36	36.38	12.73	57.4	100	0	P	H
CH 13		4944	45.35	-28.65	74	60.56	31.6	10.5	57.31	100	0	P	V
2472MHz		7416	44.51	-29.49	74	52.8	36.38	12.73	57.4	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 802.11b (LF)

Table with 14 columns: WIFI, Note, Frequency, Level, Over, Limit, Read, Antenna, Path, Preamp, Ant, Table, Peak, Pol. It contains 11 rows of test data for 2.4GHz WIFI 802.11b LF and a Remark section at the bottom.



Note symbol

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



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

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

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

For Peak Limit @ 2390MHz:

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

For Average Limit @ 2390MHz:

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

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



Appendix D. Radiated Spurious Emission Plots

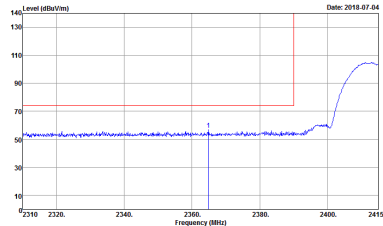
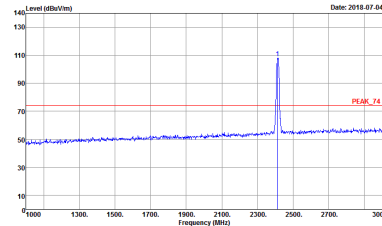
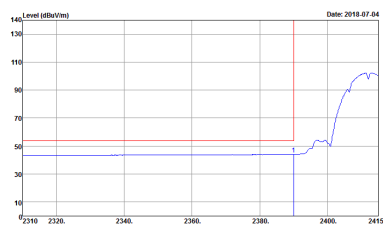
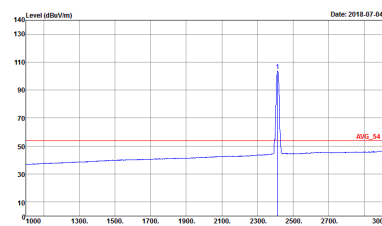
Test Engineer :	Jack Jheng and Peter Liao	Temperature :	22~25°C
		Relative Humidity :	58~61%

Note symbol

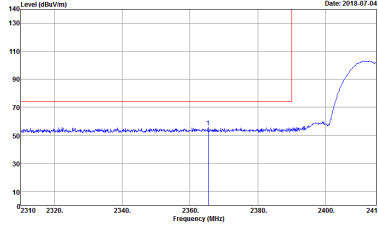
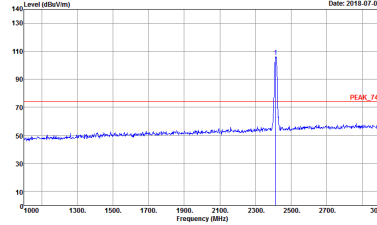
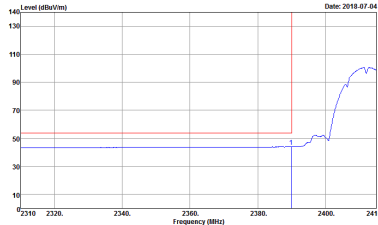
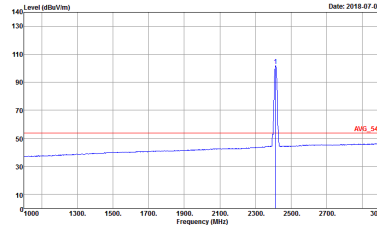
-L	Low channel location
-R	High channel location



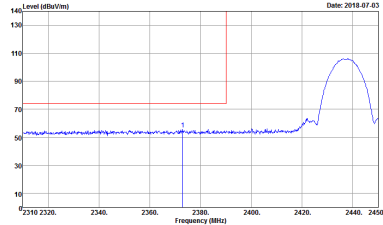
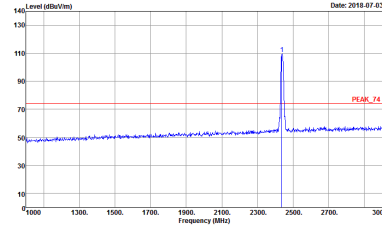
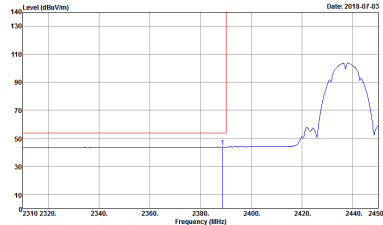
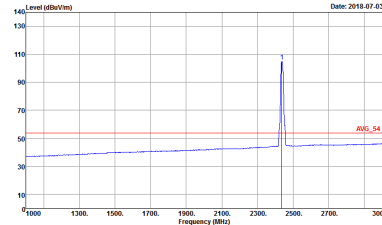
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>

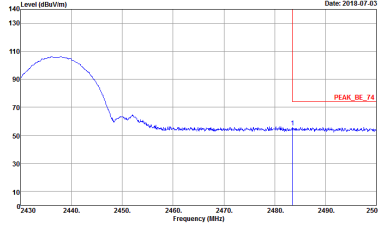
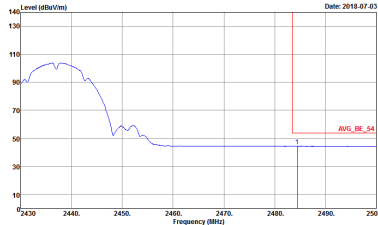


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-11Y Condition : PEAK_9C_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>	 <p>Site : 03CH12-11Y Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>
Avg.	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000kHz VBW:10.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_9120D_1328 VERTICAL RBW:1000.000kHz VBW:10.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 10 Setting : 18.5</p>

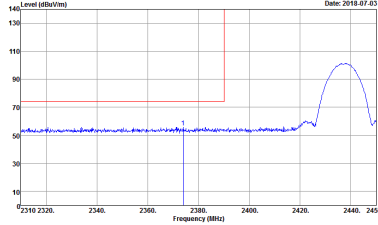
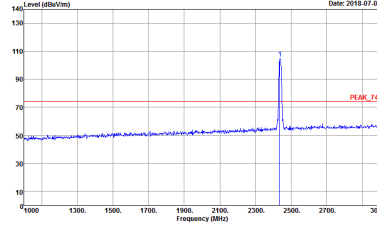
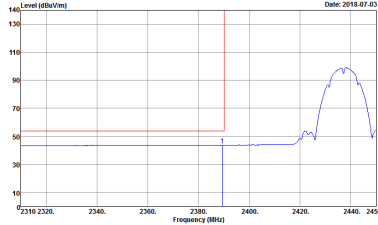
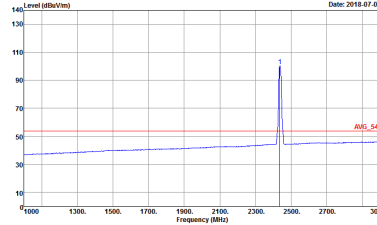


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH12-11Y Condition : PEAK_9C_74 3m HORN_91200_1328 HORIZONTAL RBW:3000.0000kHz VBW:3000.0000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL RBW:3000.0000kHz VBW:3000.0000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>
<p>Avg.</p>	 <p>Site : 03CH12-11Y Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL RBW:3000.0000kHz VBW:0.0300kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL RBW:3000.0000kHz VBW:0.0300kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH2-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	<p>Left blank</p>
<p>Avg.</p>	 <p>Site : 03CH2-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	<p>Left blank</p>

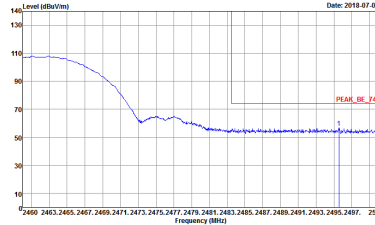
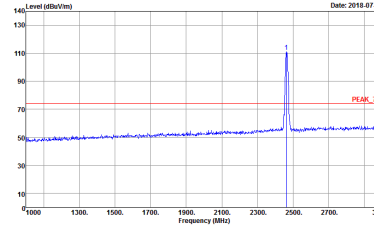
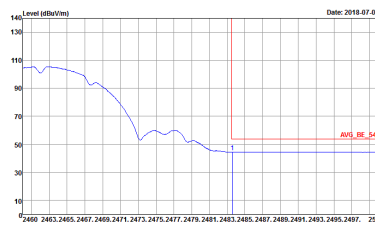
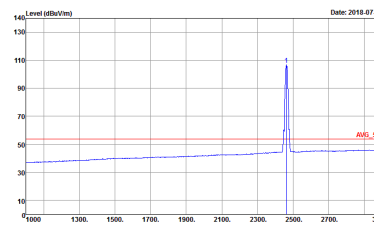


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH12-11Y Condition : PEAK_9C_74 3m HORN_91200_1328 VERTICAL RBW:3000.0000kHz VBW:3000.0000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL RBW:3000.0000kHz VBW:3000.0000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>
<p>Avg.</p>	 <p>Site : 03CH12-11Y Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL RBW:3000.0000kHz VBW:0.0300kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_91200_1328 VERTICAL RBW:3000.0000kHz VBW:0.0300kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>

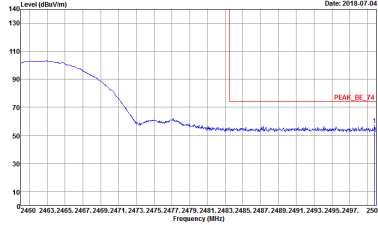
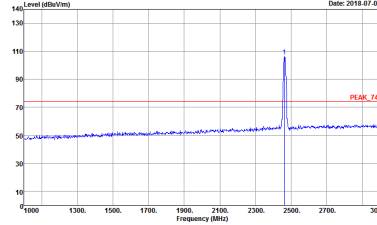
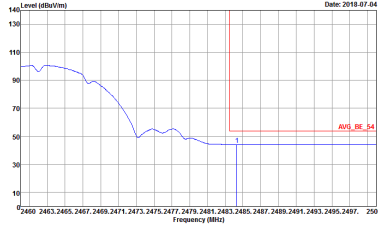
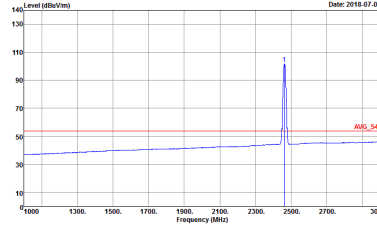


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH2-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL RBW:10000000Hz VBW:3000.0000Hz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	Left blank
Avg.	<p>Site : 03CH2-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL RBW:10000000Hz VBW:10.0000Hz SWT:Auto Detector : Peak Project : 832126-02 Mode : 11 Setting : 17.5</p>	Left blank

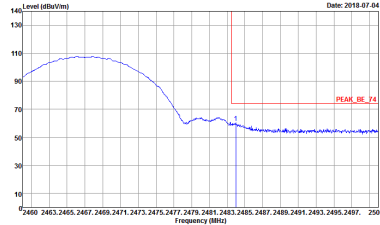
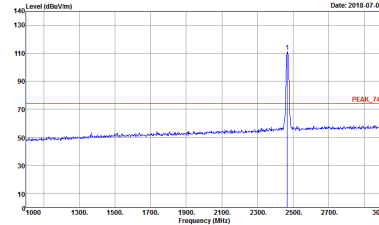
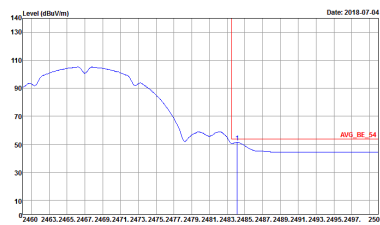
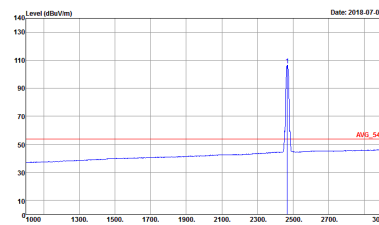


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>
<p>Avg.</p>	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL RBW:3000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL RBW:3000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>

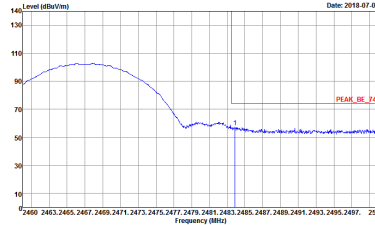
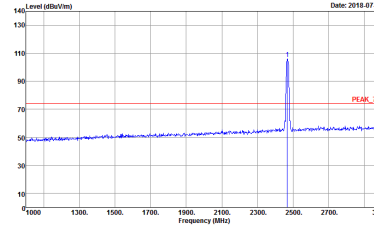
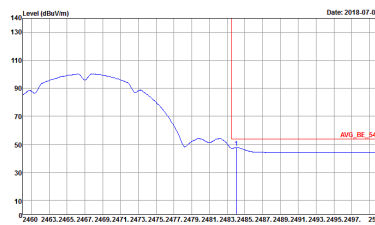
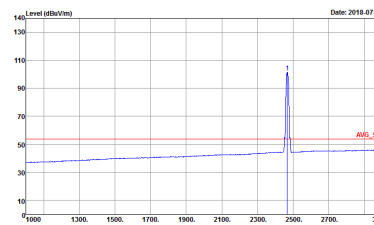


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH12-11Y Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL RBW:3000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>
<p>Avg.</p>	 <p>Site : 03CH12-11Y Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL RBW:3000.000KHz VBW:0.030KHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_91200_1328 VERTICAL RBW:3000.000KHz VBW:0.030KHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 12 Setting : 17.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
<p>Peak</p>	 <p>Site : 03CH12-11Y Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : PEAK_F4 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>
<p>Avg.</p>	 <p>Site : 03CH12-11Y Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
<p>Peak</p>	 <p>Site : 03CH12-11Y Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL RBW:3000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>
<p>Avg.</p>	 <p>Site : 03CH12-11Y Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL RBW:3000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>	 <p>Site : 03CH12-11Y Condition : AVG_54 3m HORN_91200_1328 VERTICAL RBW:3000.000kHz VBW:0.010kHz SWT:Auto Detector : Peak Project : 832126-02 Mode : 13 Setting : 17.5</p>