



FCC RADIO TEST REPORT

FCC ID : MSQI001D
Equipment : ASUS Phone(Mobile Phone)
Brand Name : ASUS
Model Name : ASUS_I001D
ASUS_I001DC
Applicant : ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN
Manufacturer : Guangdong Enok Communication Co., Ltd.
No. 137, 139, Lixiang Road., Songmushan Village, Dalang
Town, Dongguan City, Guangdong Province, China
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 13, 2019 and testing was started from May 14, 2019 and completed on Jun. 14, 2019. We, SPORTON INTERNATIONAL INC., EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The 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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History of this test report

Report No.	Version	Description	Issued Date
FR931316C	01	Initial issue of report	Jul. 08, 2019

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 2.17 dB at 2484.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 4.49 dB at 13.560MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Declaration of Conformity:

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

Comments and Explanations:

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

Reviewed by: Wii Chang

Report Producer: Ann Lee

1 General Description

1.1 Product Feature of Equipment Under Test

GSM/CDMA/WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ac, Wi-Fi 5GHz 802.11a/n/ac, FM Receiver, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: PIFA Antenna WLAN <Ant. 0>: PIFA Antenna <Ant. 1>: PIFA Antenna <Ant. 2>: PIFA Antenna <Ant. 3>: PIFA Antenna Bluetooth: PIFA Antenna GPS / Glonass / BDS / Galileo: PIFA Antenna NFC: Loop Antenna FM: Using Earphone as Antenna

<Sample Information>

Sample	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
Confi	8G/256GB	12G/512GB	12G/512GB	12G/128GB	12G/256GB
LCD+ Touch module	TIANMA/TA066VVH M01-00 ON CELL	TIANMA/TA066VVH M01-00 ON CELL	TIANMA/TA066VVH M01-00 ON CELL	TIANMA/TA066VVH M01-00 ON CELL	TM/TA066VVHM01-00 2.0 ON CELL
Front Camera 24M	AZUREWAVE/AM-9B F8N01-A	SUNWIN/SWCG572 Y0DAB-VA	AZUREWAVE/AM-9B F8N01-A	SUNWIN/SWCG572 Y0DAB-VA	SUNWIN/SWCG572 Y0DAB-VA
Rear Camera 48M	OFILM/OSS1588	LUXVISIONS/9BAL0 2P3	OFILM/OSS1588	PRIMAX/50-704J1AS C8	LUXVISIONS/9BAL0 2P3
Finger print	ACE TW/9105-260002101	ACE TW/9105-260002101	ACE TW/9105-260002101	ACE TW/9105-260002101	ACE TW/9105-260002101
BATT	SCUD/C11P1901	SCUD/C11P1901	SCUD/C11P1901	SCUD/C11P1901	SCUD/C11P1901
CPU	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AB	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AB	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AB	QUALCOMM 893MPSP/SM-8150-1-893BMPSP-TR-03-0-AC	QUALCOMM 893MPSP/SM-8150-5-MPSP893-TR-03-0-AC
DDR	SAMSUNG/K3UH7H 70AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL	SAMSUNG/K3UHAH A0AM-AGCL
UFS	Samsung/KLUEG8U 1EA-B0C1	Samsung/KLUFG8R 1EM-B0C1	Samsung/KLUFG8R 1EM-B0C1	SAMSUNG KLUDG4UHDB-B2D1	HYNIX/H28S90302 BMR

1.2 Modification of EUT

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

1.3 Testing Location

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

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

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH011-HY	

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

FCC designation No.: TW1190 and TW0007

1.4 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Camera Mode: X plane with bottom port for Ant. 3 and MIMO Ant. 3+2, Z plane with bottom port for Ant. 2; Calling Mode: X plane with bottom port for Ant. 3 and MIMO Ant. 0+3, Y plane with bottom port for Ant. 0; Gaming Mode: Y plane with bottom port for MIMO Ant. 0+2) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

Single Antenna

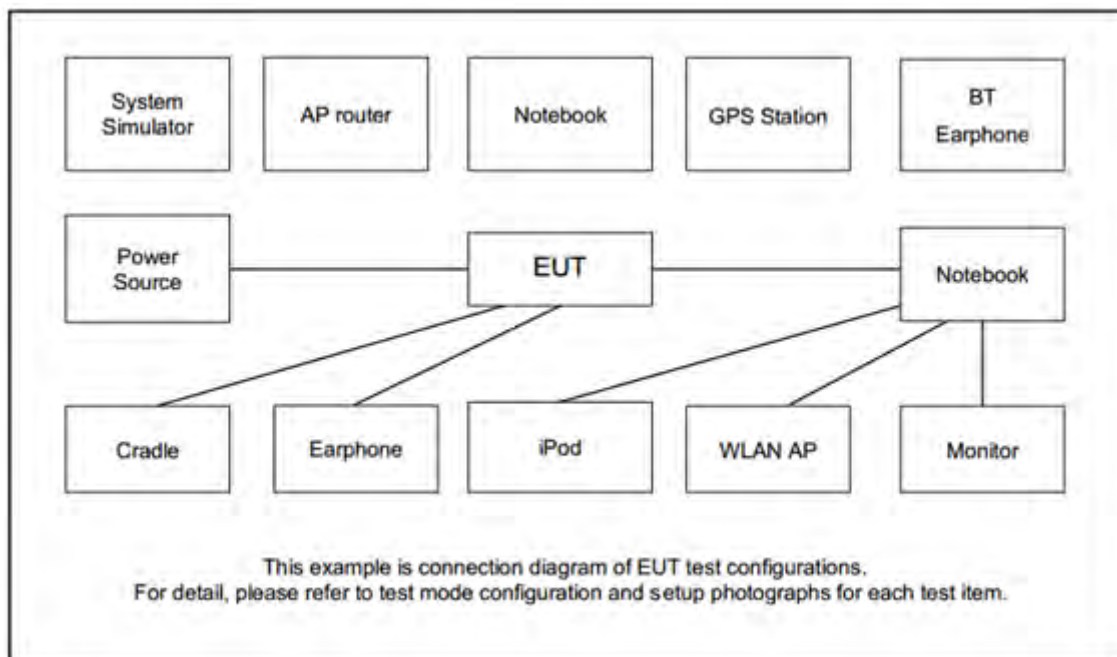
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0

MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN (2.4GHz) Link + X Mode + Aura Sync + NFC On + MPEG4 (Color Bar) + Earphone 3 + Inbox 1 (Charging from AC Adapter via USB Cable) + Fan on (Max.) + SIM 1 for Sample 3
Remark: For Radiated Test Cases, the tests were performed with Earphone 1 and Sample 3	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	ASUS	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
6.	Earphone 3	ASUS	EA010	FCC DoC	Unshielded, 1.2 m	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version3.0.271.0" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.



2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 5.5 dB and 20dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 5.5 + 20 = 25.5 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

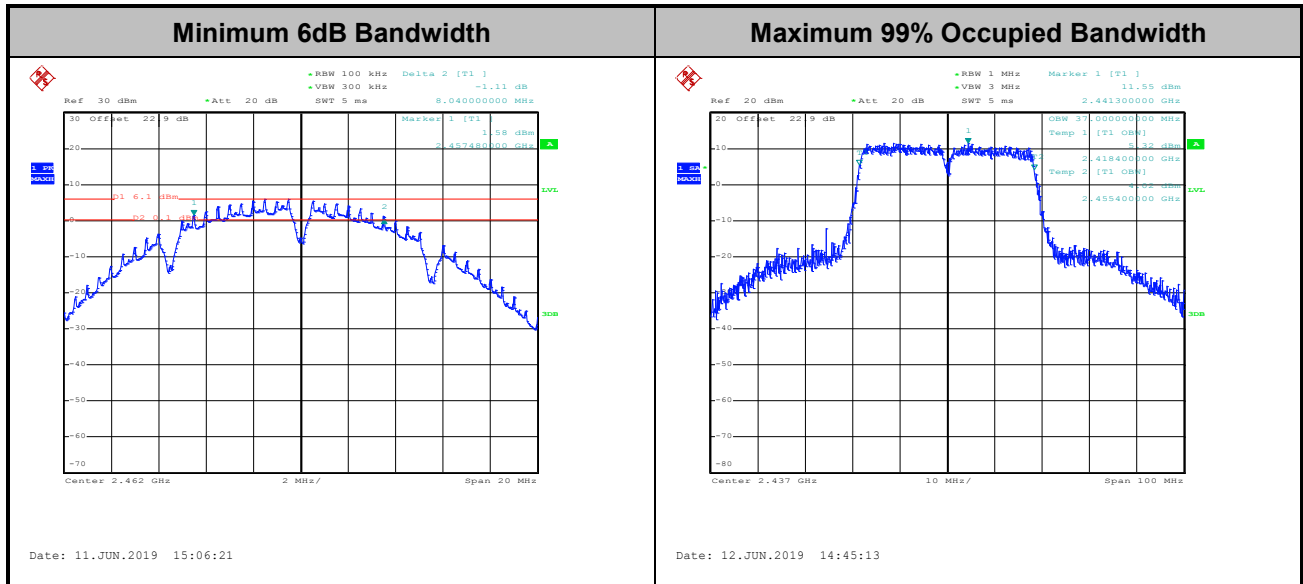
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for 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.

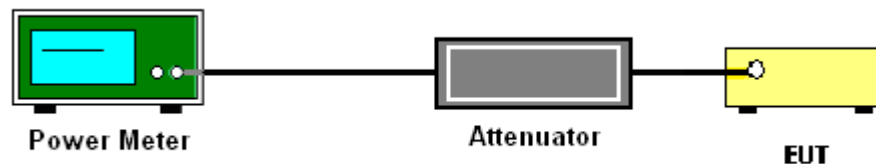
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

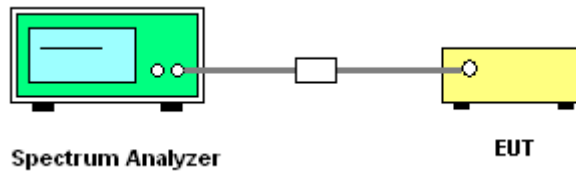
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

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.

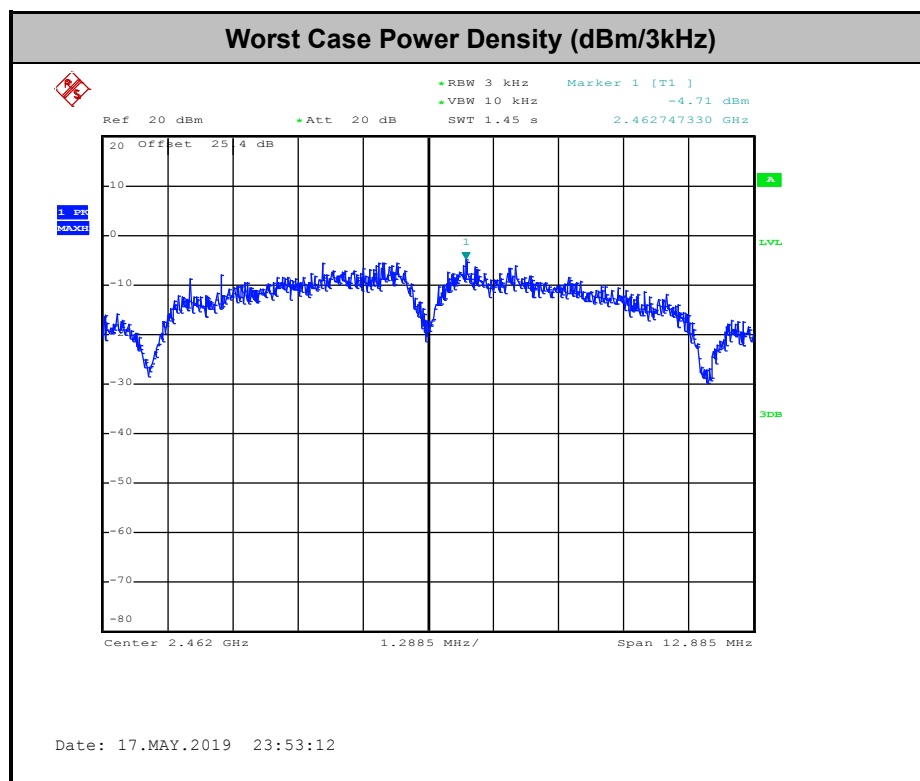
Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

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.

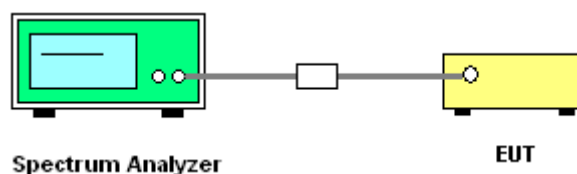
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

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

3.4.4 Test Setup



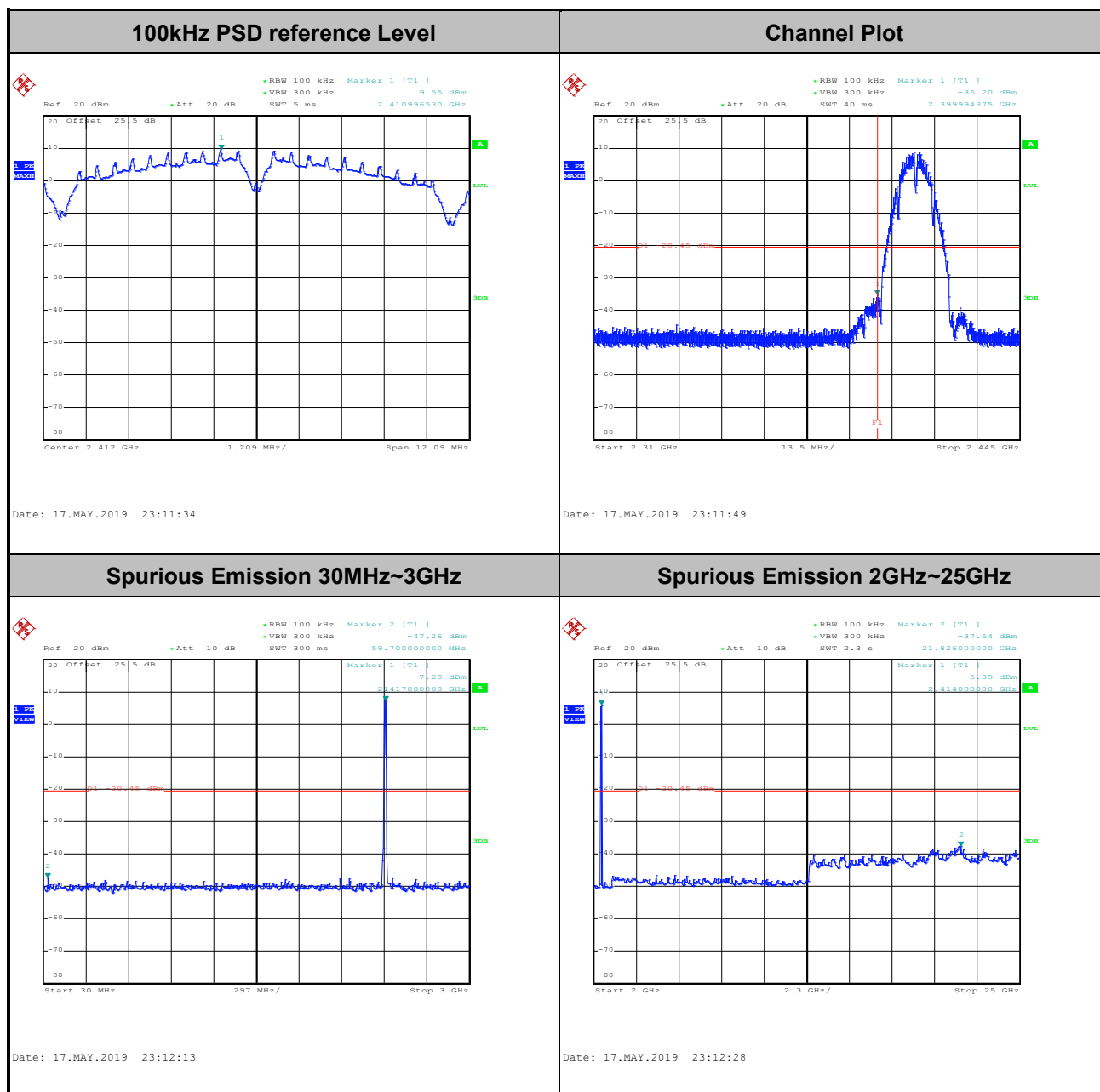


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

Number of TX = 1, Chain 0 (Measured)

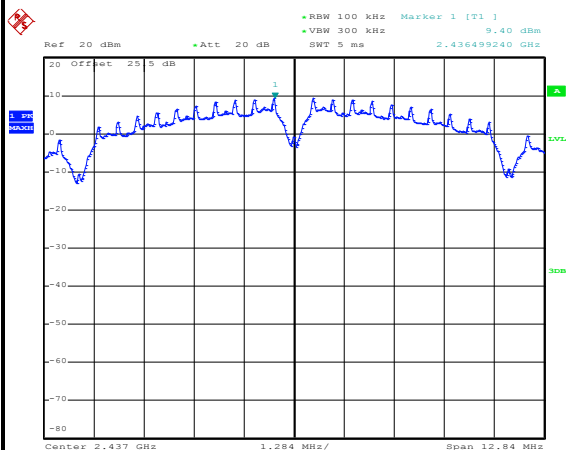
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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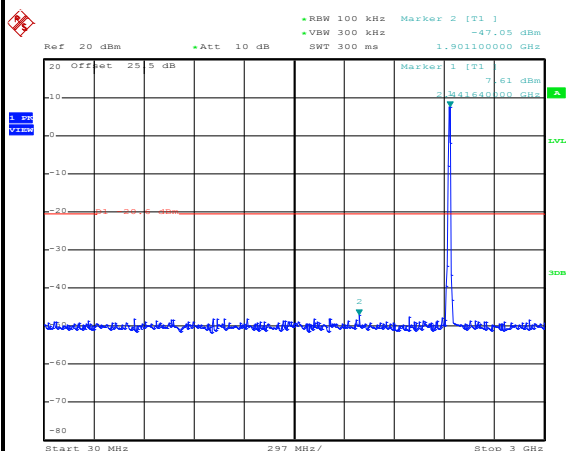
100kHz PSD reference Level



Date: 17.MAY.2019 23:16:16

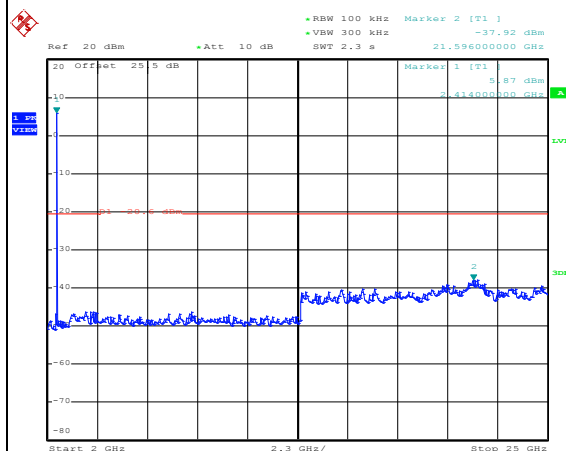
Channel Plot

Spurious Emission 30MHz~3GHz

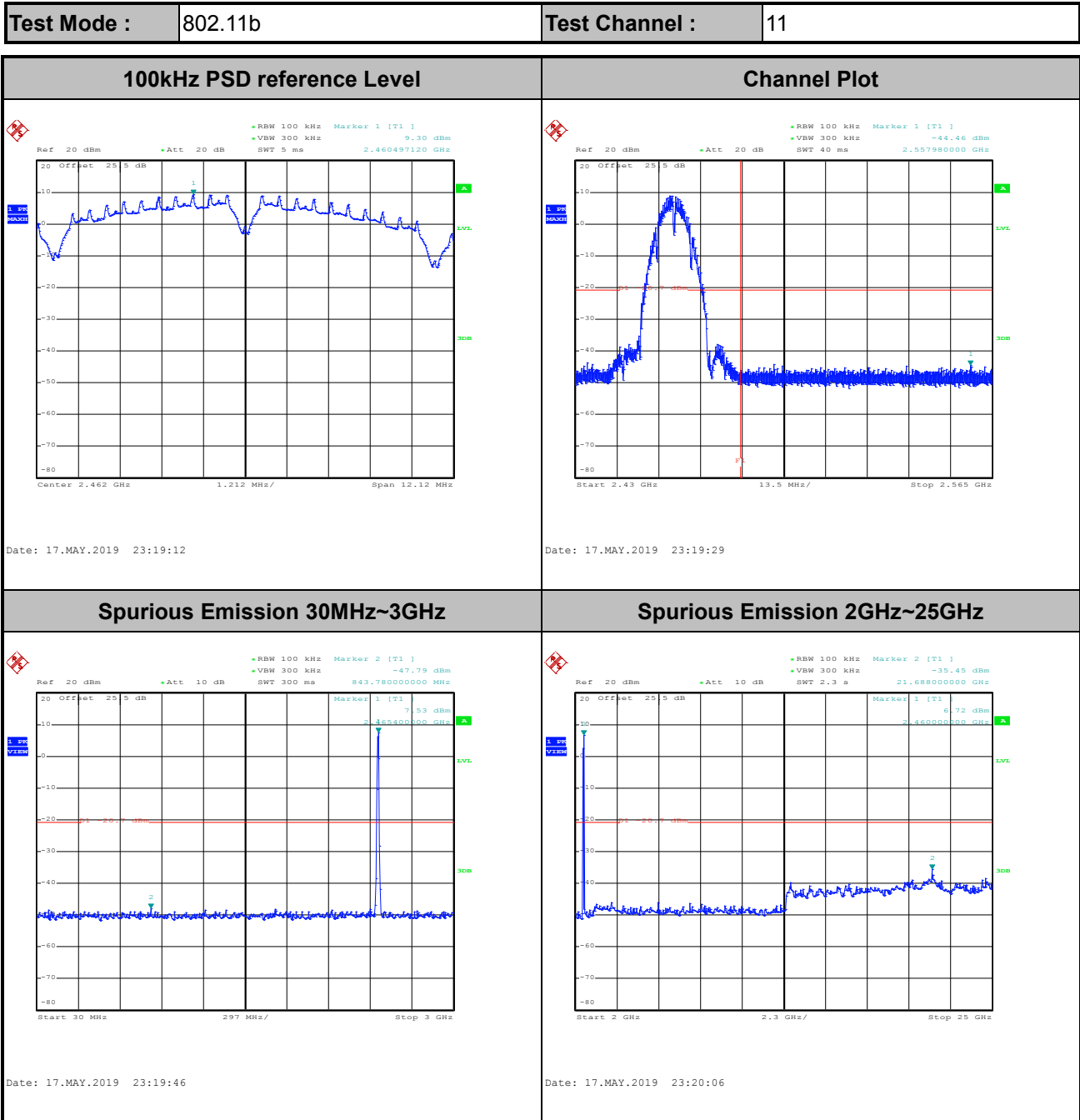


Date: 17.MAY.2019 23:16:36

Spurious Emission 2GHz~25GHz



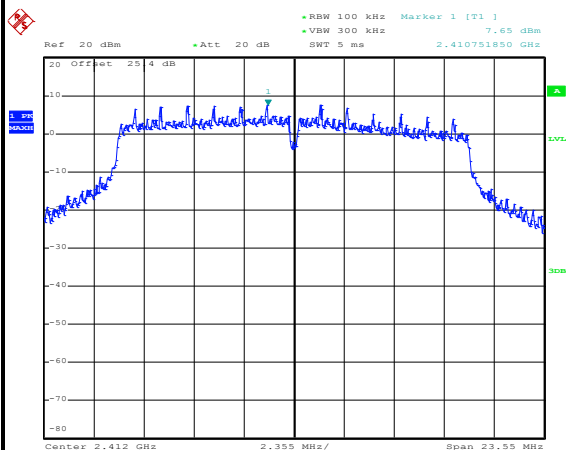
Date: 17.MAY.2019 23:16:51





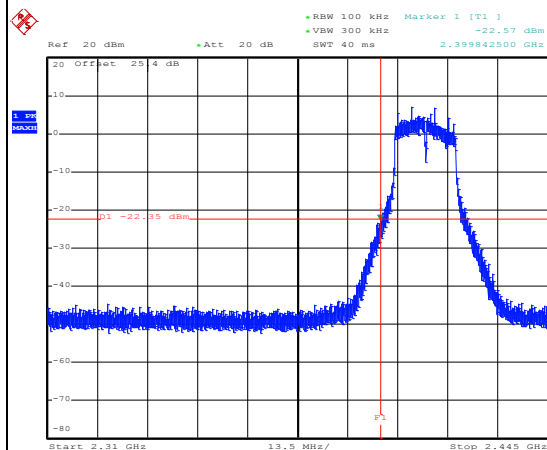
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



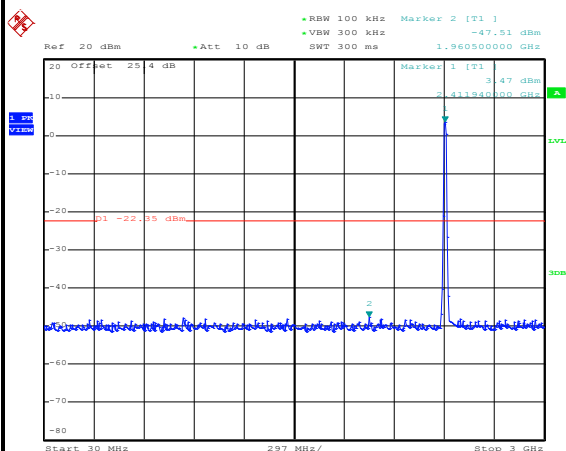
Date: 18.MAY.2019 00:52:03

Channel Plot



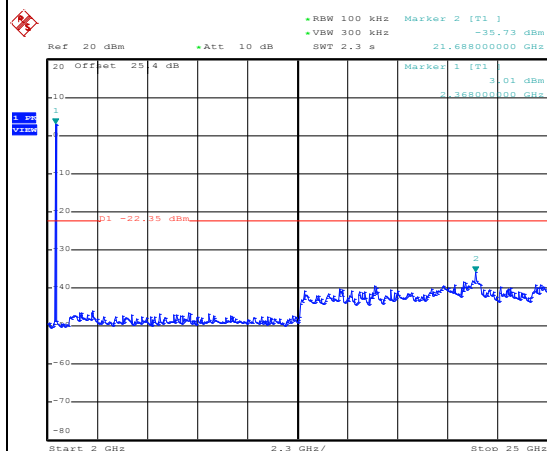
Date: 18.MAY.2019 00:52:43

Spurious Emission 30MHz~3GHz



Date: 18.MAY.2019 00:54:13

Spurious Emission 2GHz~25GHz

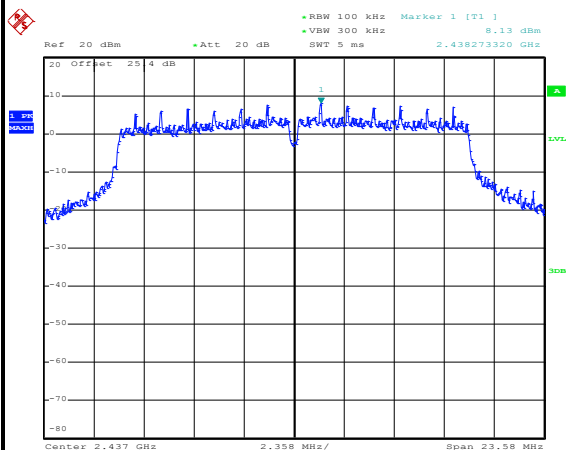


Date: 18.MAY.2019 00:54:28



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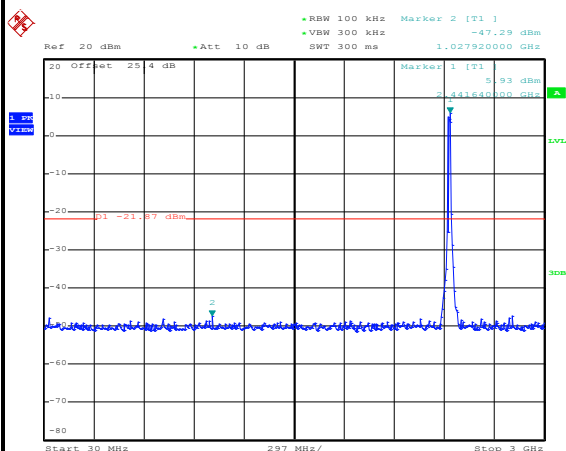
100kHz PSD reference Level



Date: 18.MAY.2019 00:57:53

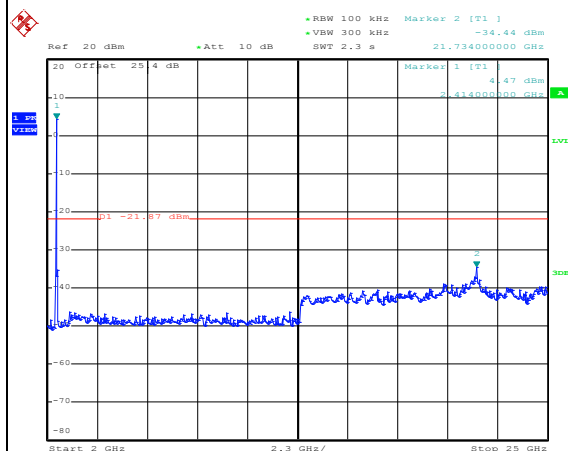
Channel Plot

Spurious Emission 30MHz~3GHz

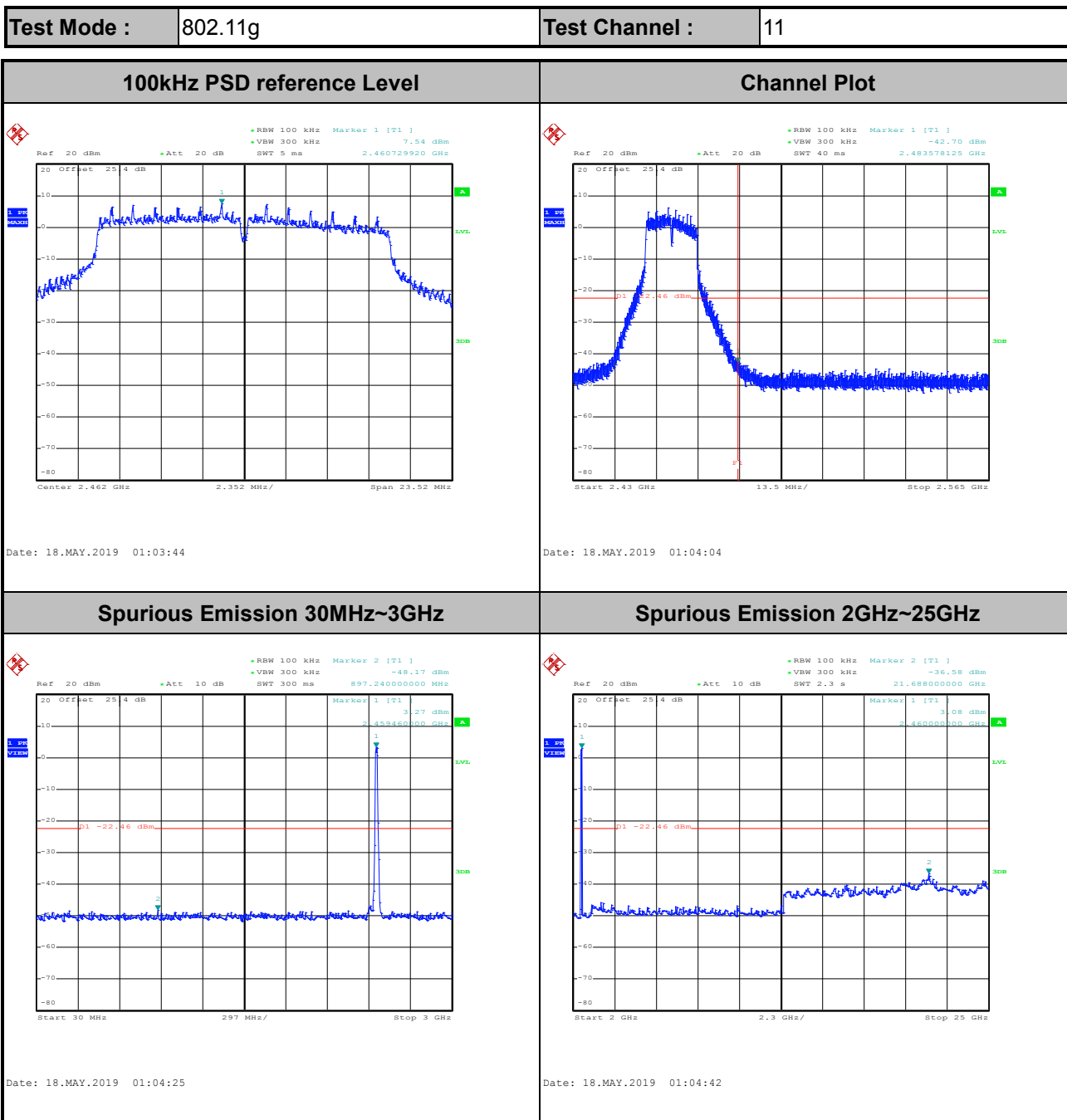


Date: 18.MAY.2019 00:58:20

Spurious Emission 2GHz~25GHz

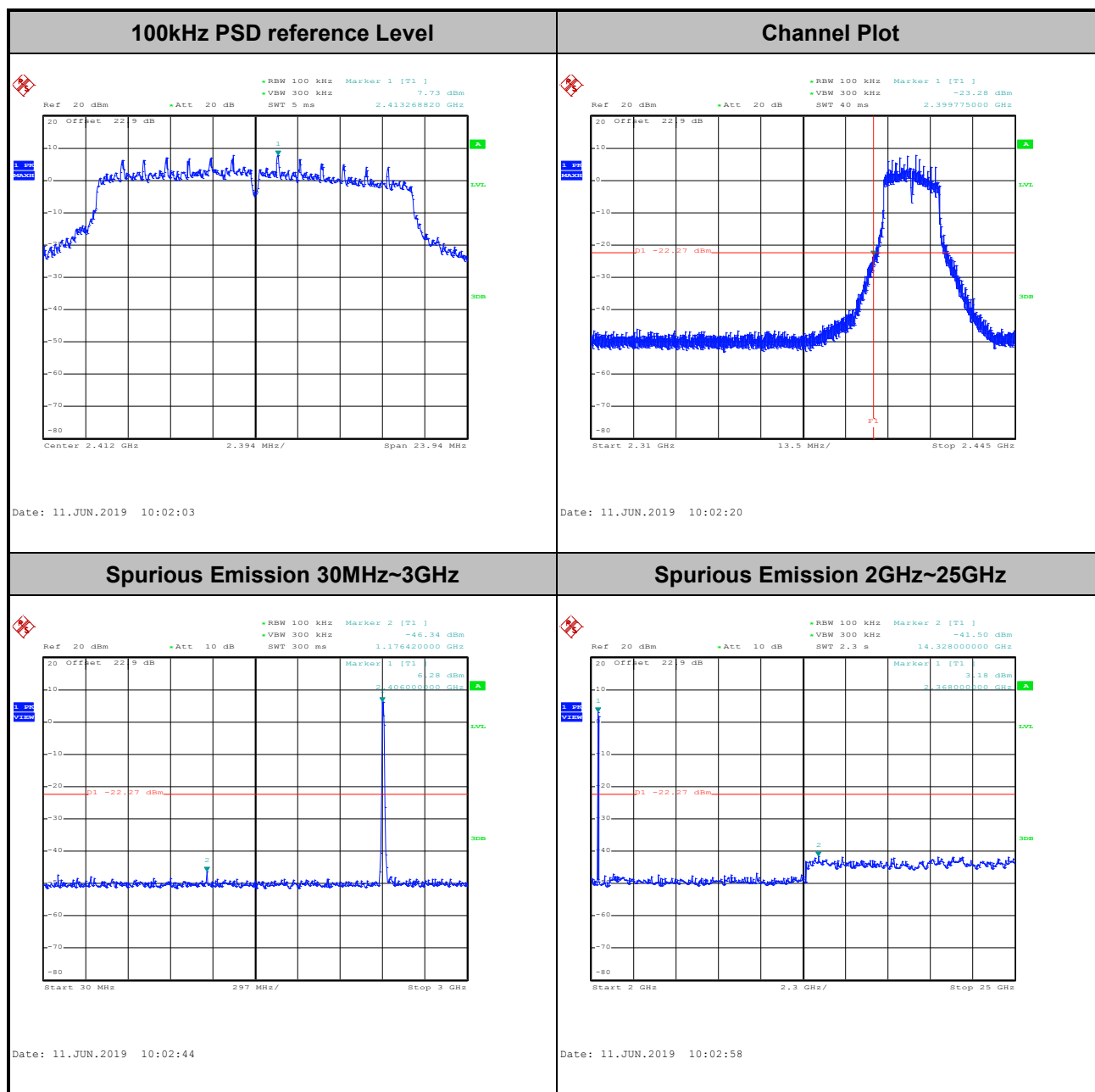


Date: 18.MAY.2019 00:58:38





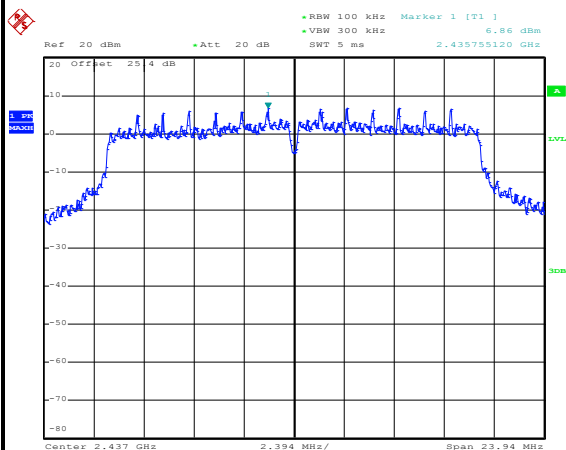
Test Mode :	802.11n HT20	Test Channel :	01
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Test Mode :	802.11n HT20	Test Channel :	06
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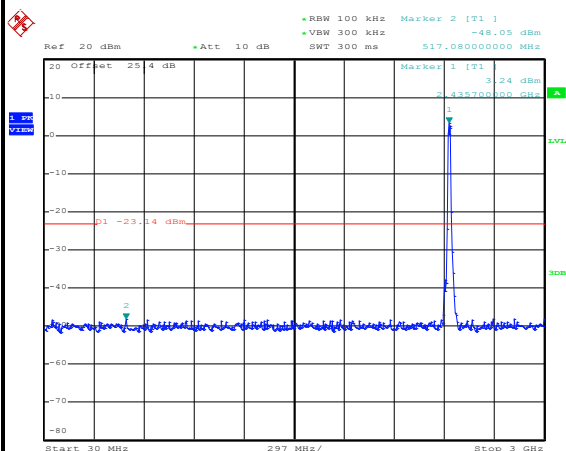
100kHz PSD reference Level



Date: 19.MAY.2019 23:52:01

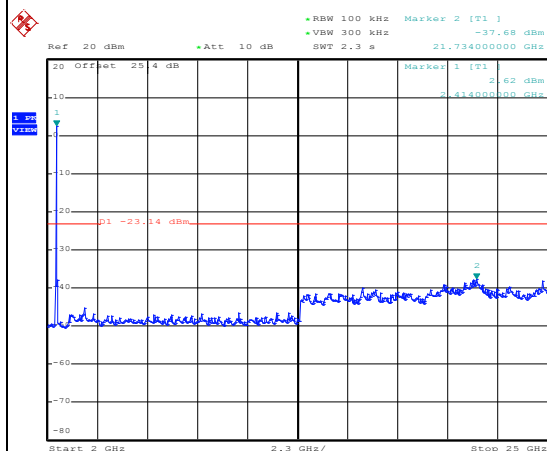
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 19.MAY.2019 23:52:45

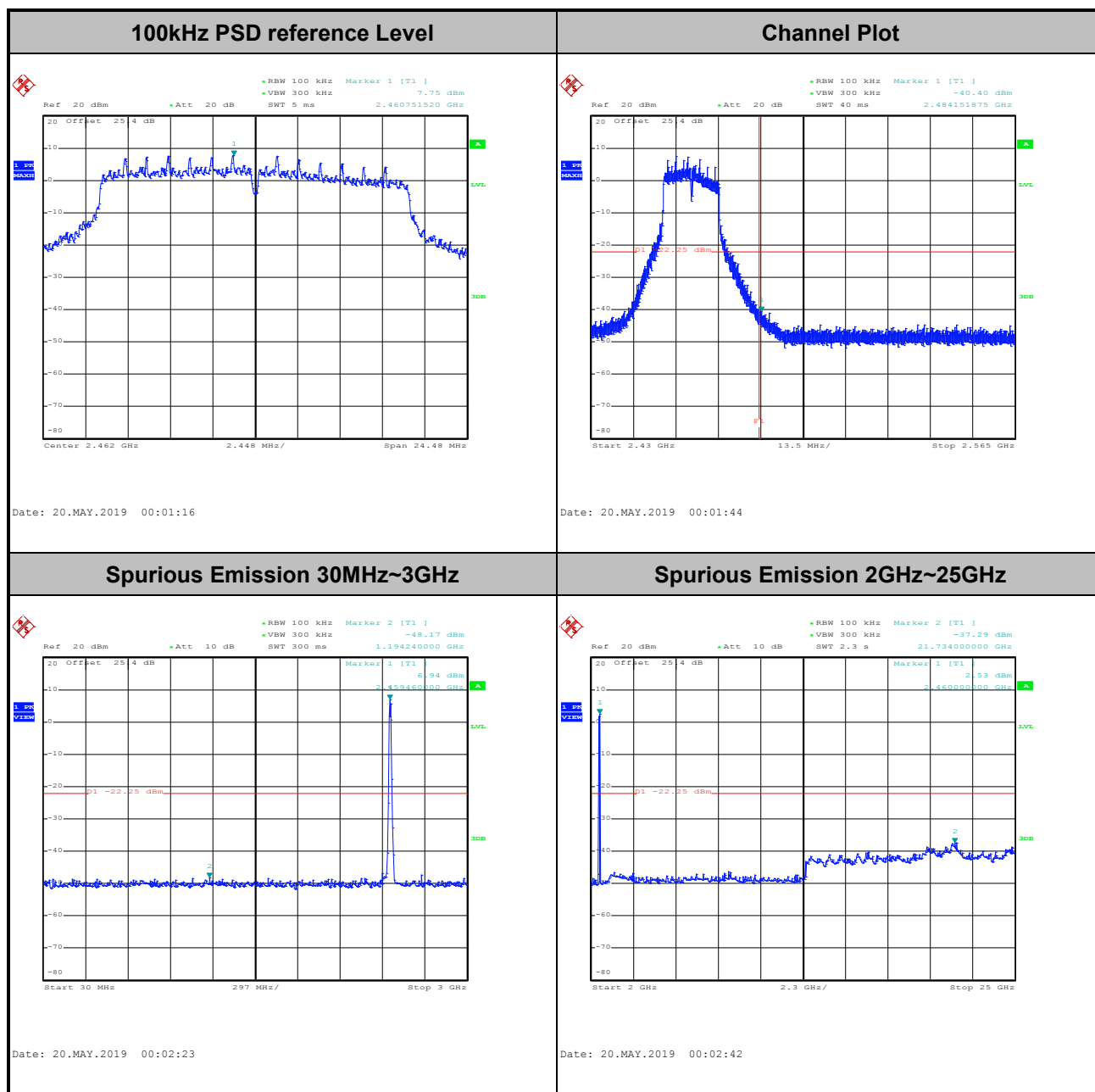
Spurious Emission 2GHz~25GHz



Date: 19.MAY.2019 23:53:07



Test Mode :	802.11n HT20	Test Channel :	11
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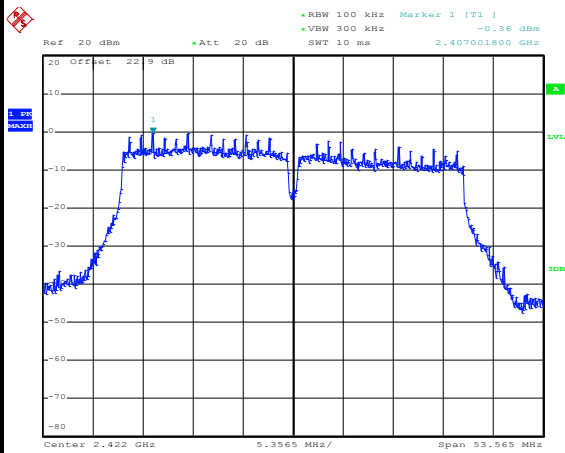




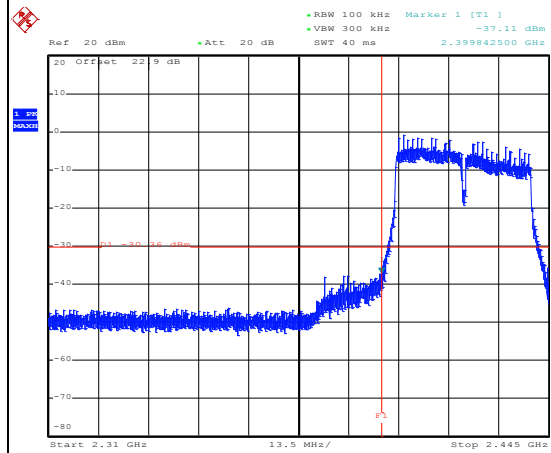
Test Mode : 802.11n HT40

Test Channel : 03

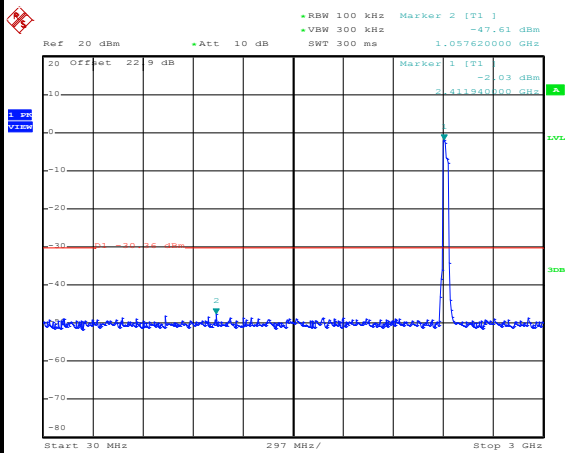
100kHz PSD reference Level



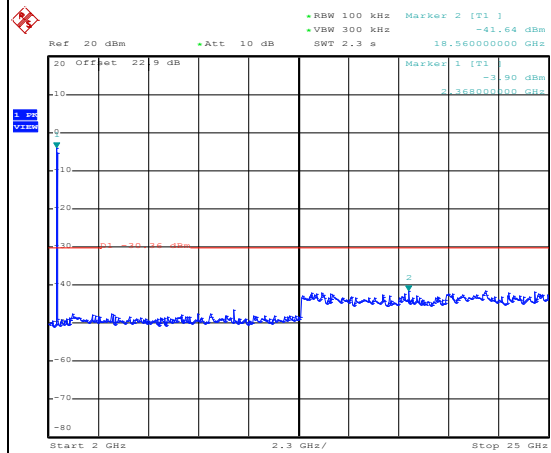
Channel Plot



Spurious Emission 30MHz~3GHz



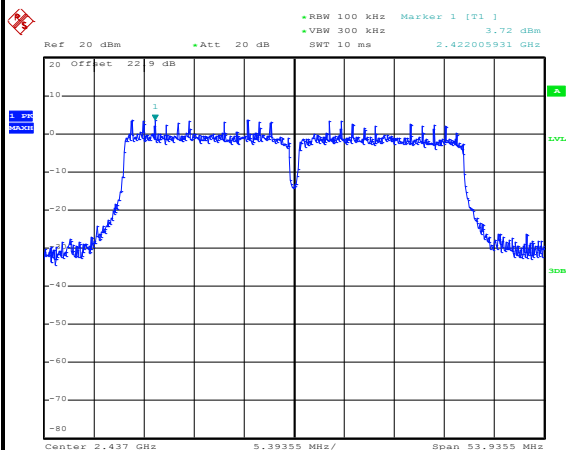
Spurious Emission 2GHz~25GHz





Test Mode :	802.11n HT40	Test Channel :	06
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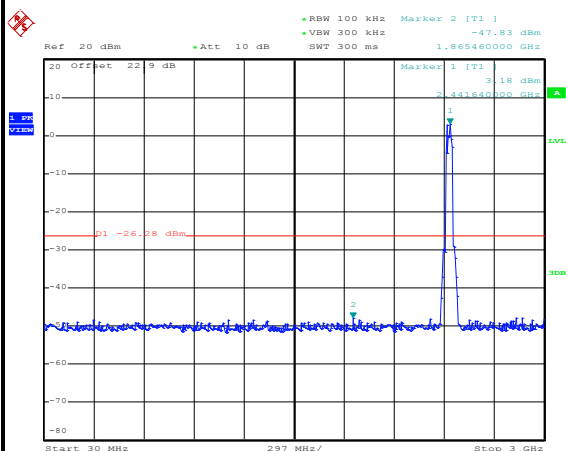
100kHz PSD reference Level



Date: 12.JUN.2019 14:44:15

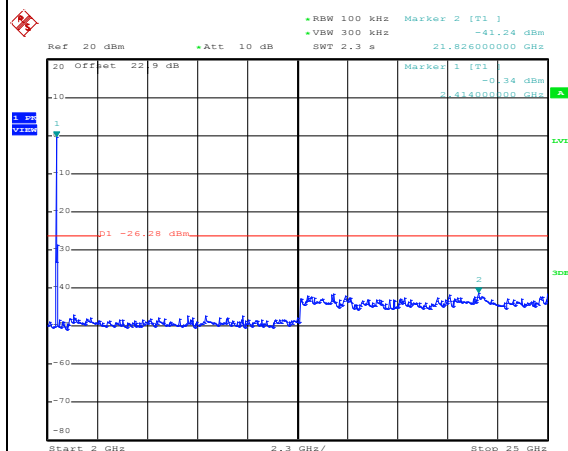
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 12.JUN.2019 14:44:42

Spurious Emission 2GHz~25GHz



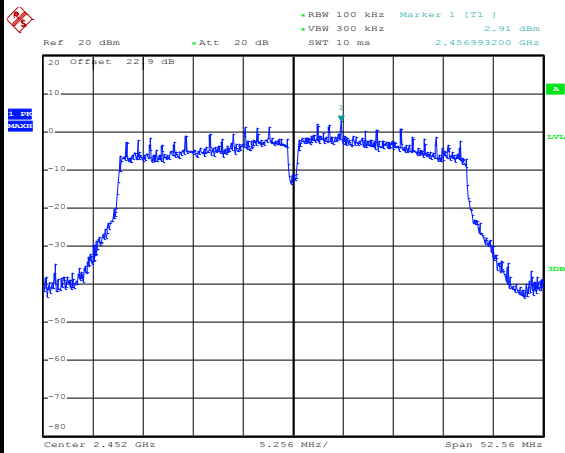
Date: 12.JUN.2019 14:44:57



Test Mode : 802.11n HT40

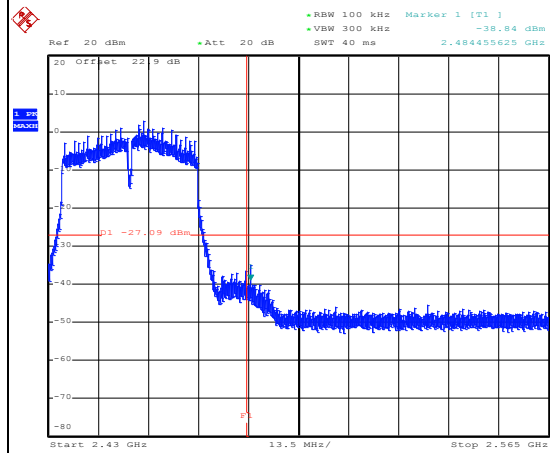
Test Channel : 09

100kHz PSD reference Level



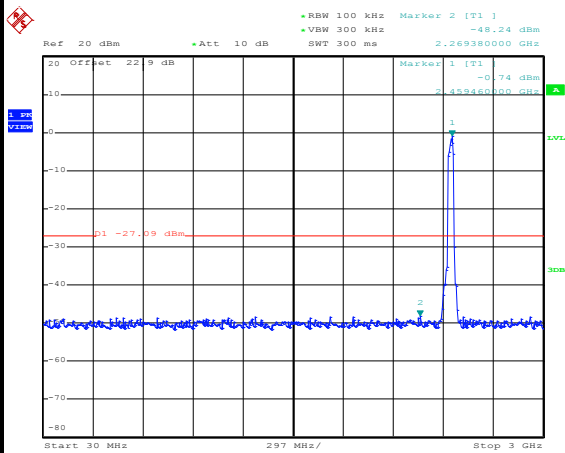
Date: 11.JUN.2019 10:45:16

Channel Plot



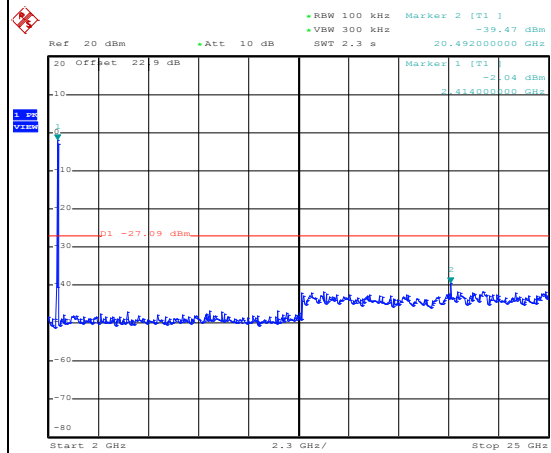
Date: 11.JUN.2019 10:45:37

Spurious Emission 30MHz~3GHz



Date: 11.JUN.2019 10:45:59

Spurious Emission 2GHz~25GHz

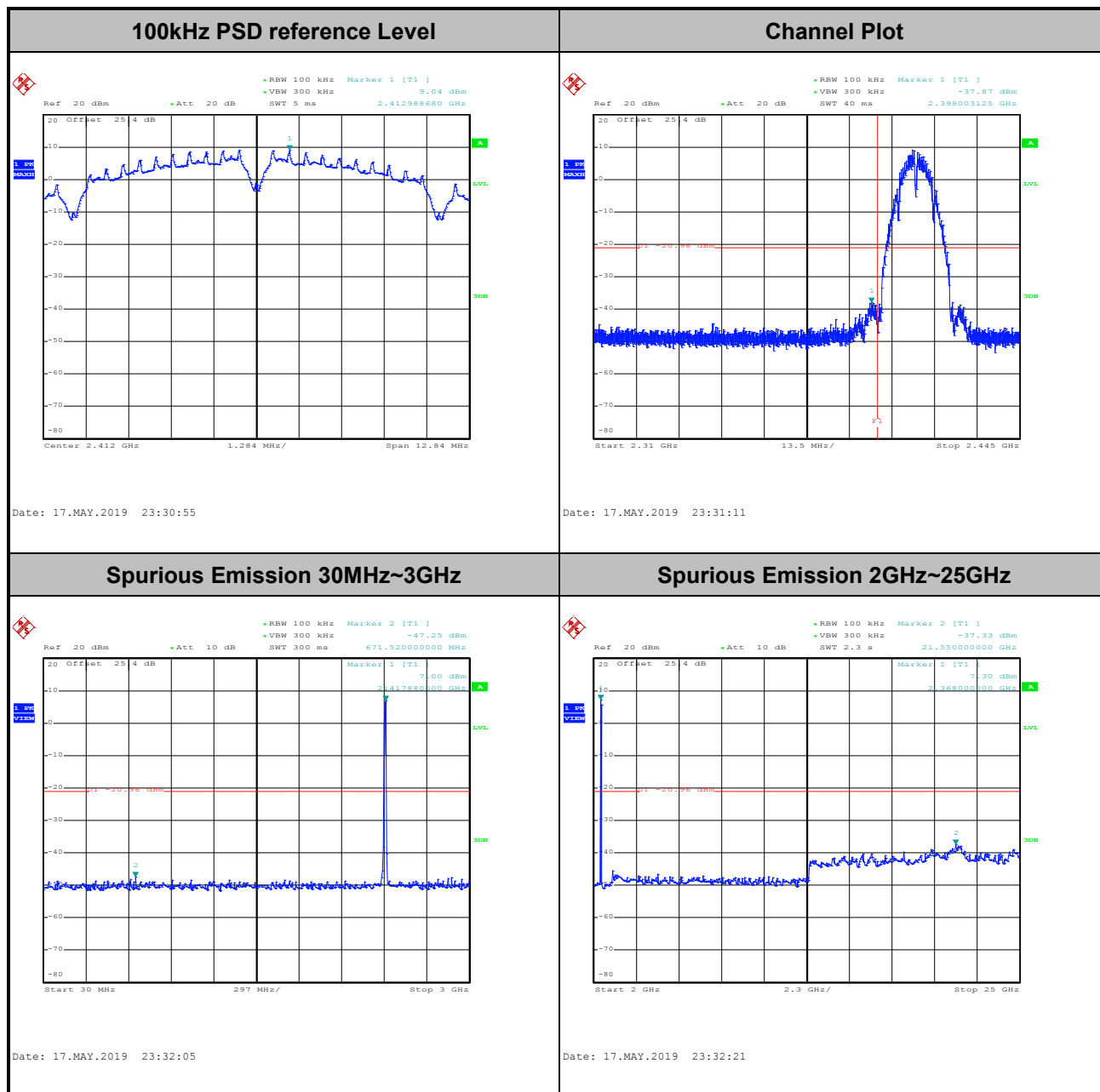


Date: 11.JUN.2019 10:46:25



Number of TX = 1, Chain 1 (Measured)

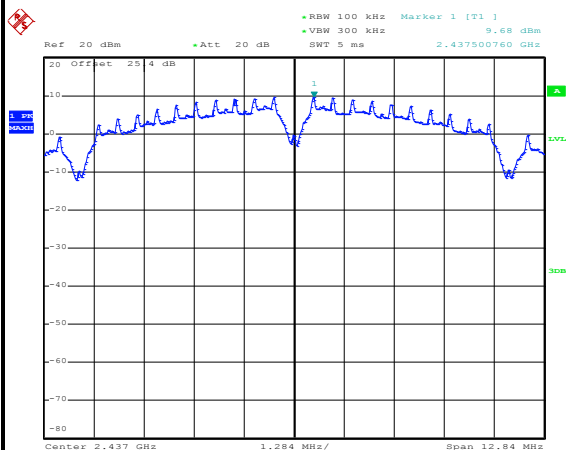
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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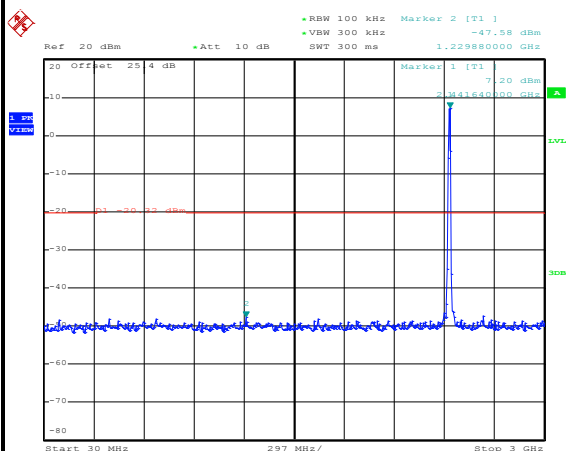
100kHz PSD reference Level



Date: 17.MAY.2019 23:49:48

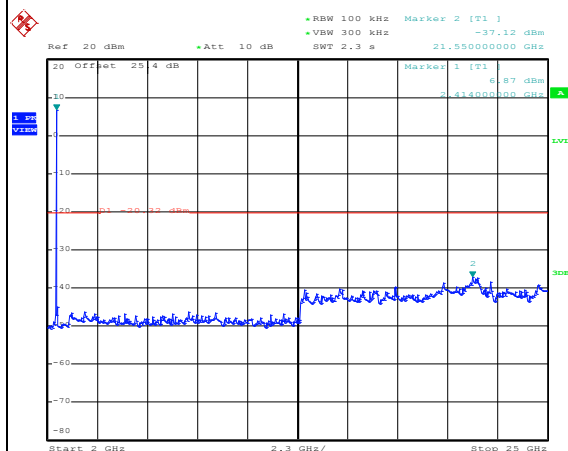
Channel Plot

Spurious Emission 30MHz~3GHz

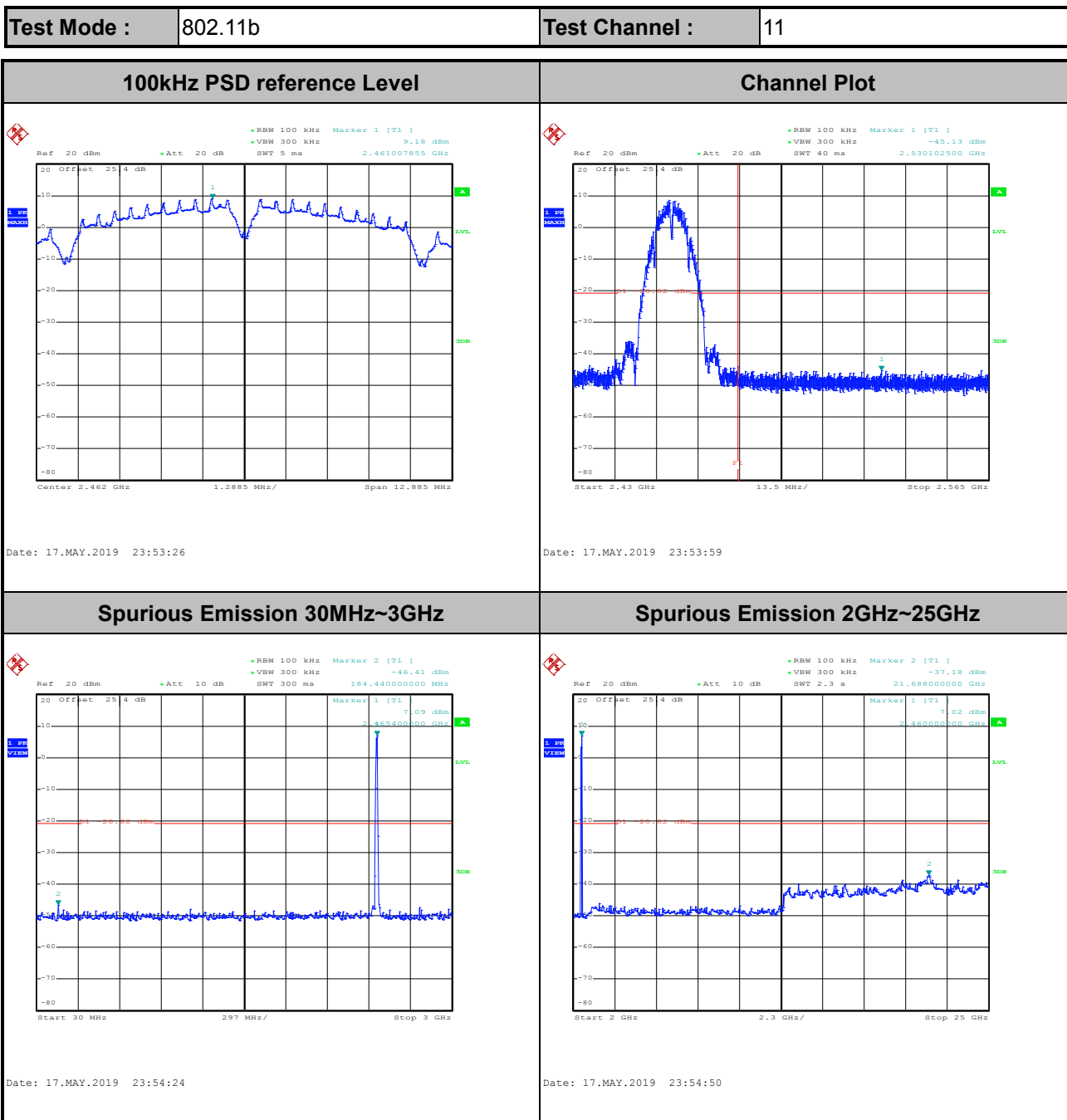


Date: 17.MAY.2019 23:50:23

Spurious Emission 2GHz~25GHz

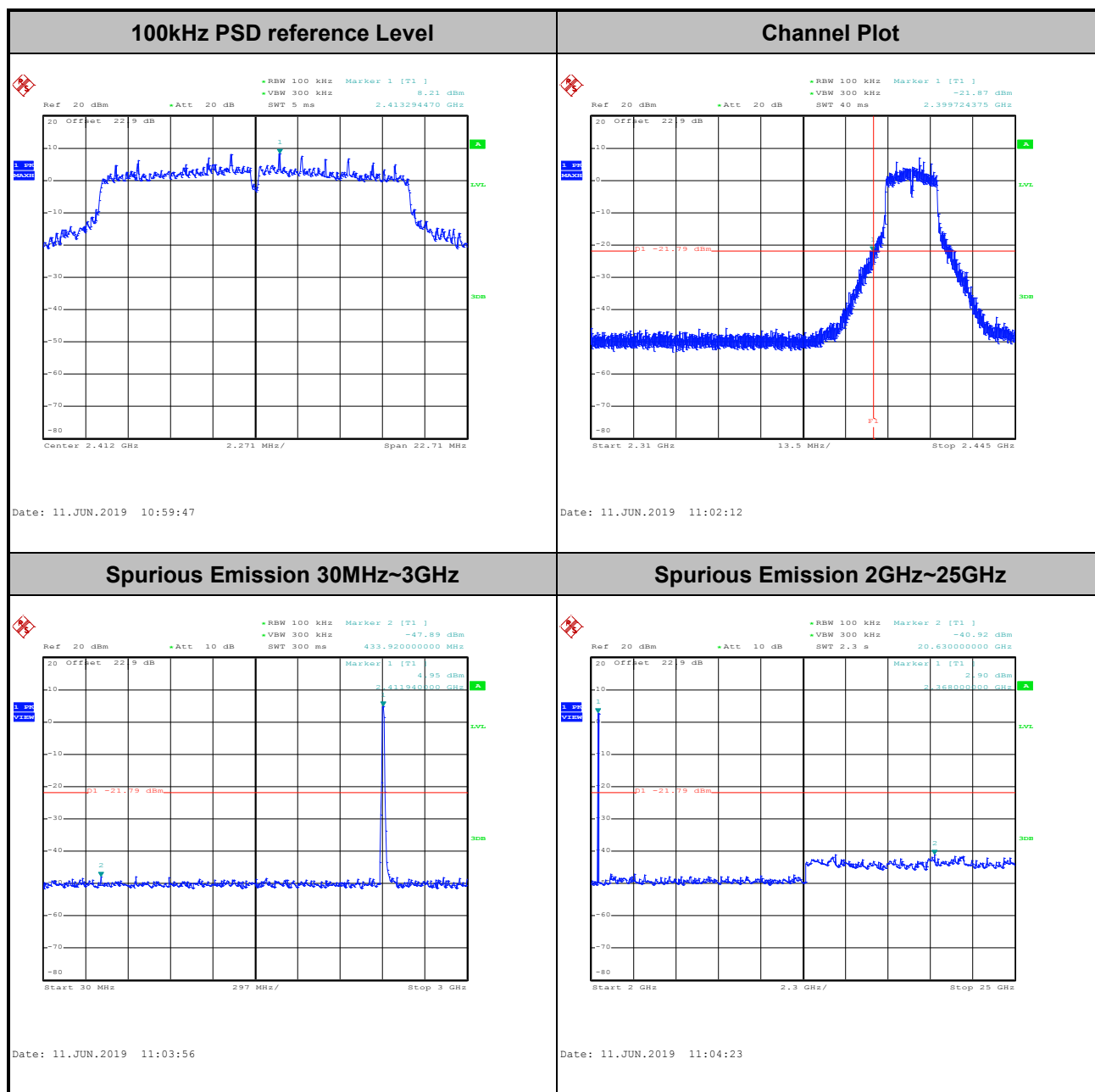


Date: 17.MAY.2019 23:50:40





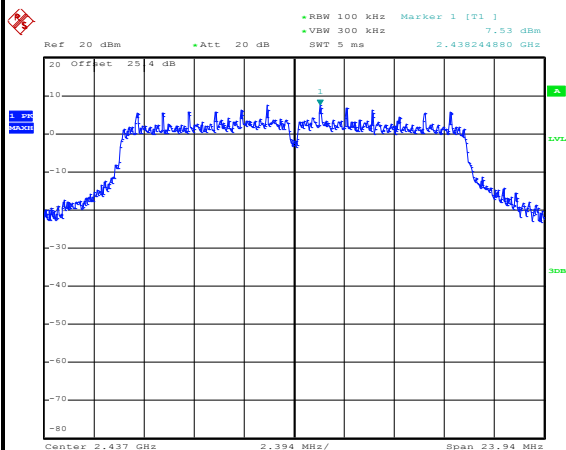
Test Mode :	802.11g	Test Channel :	01
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Test Mode :	802.11g	Test Channel :	06
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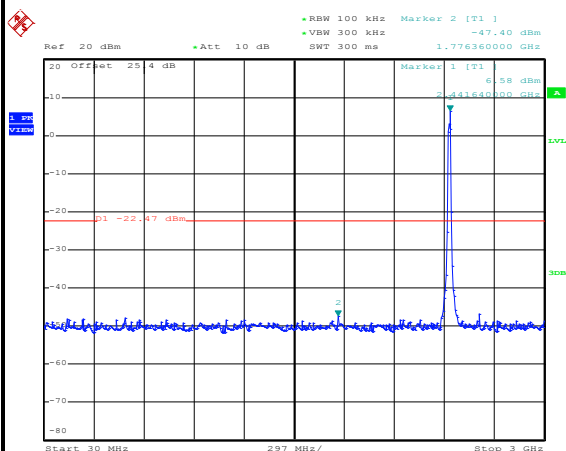
100kHz PSD reference Level



Date: 18.MAY.2019 01:26:46

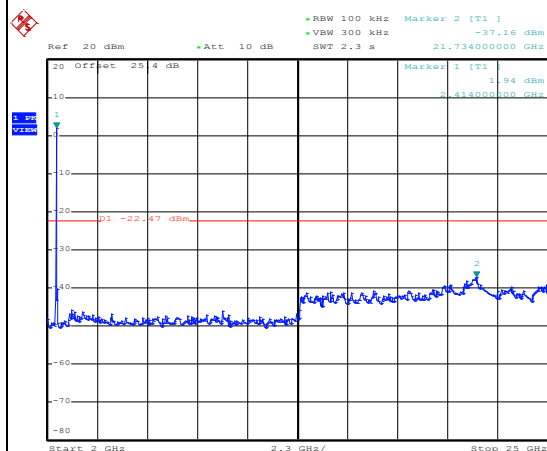
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 18.MAY.2019 01:27:15

Spurious Emission 2GHz~25GHz

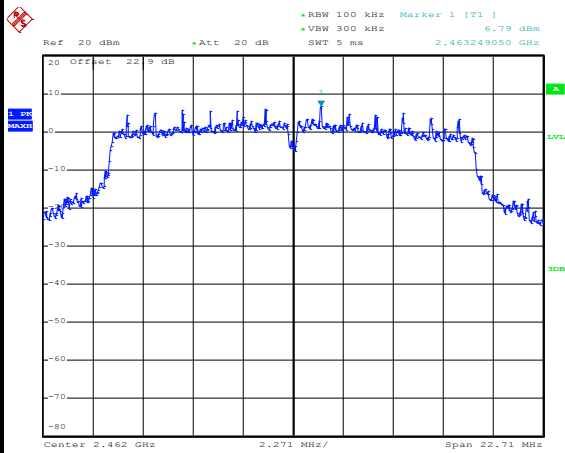


Date: 18.MAY.2019 01:27:30



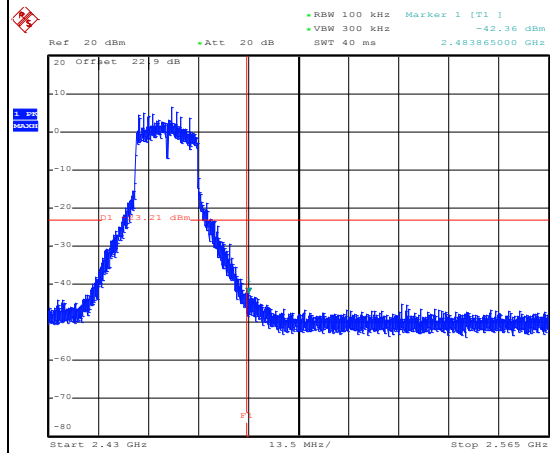
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



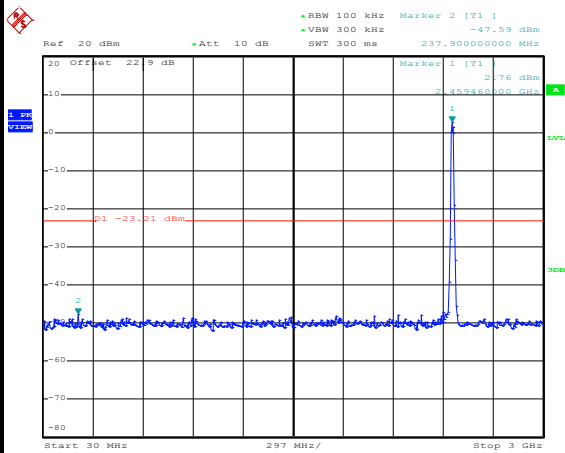
Date: 11.JUN.2019 11:11:23

Channel Plot



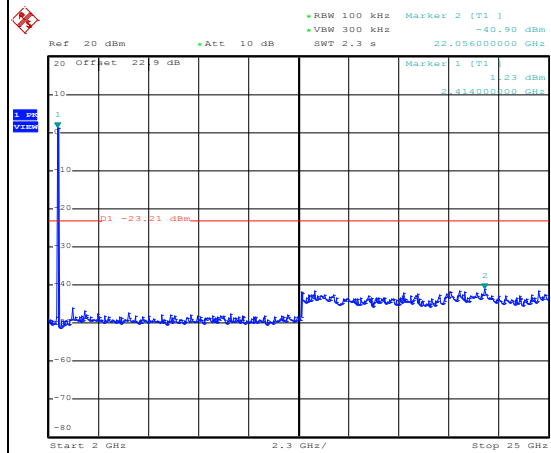
Date: 11.JUN.2019 11:11:37

Spurious Emission 30MHz~3GHz



Date: 11.JUN.2019 11:13:12

Spurious Emission 2GHz~25GHz



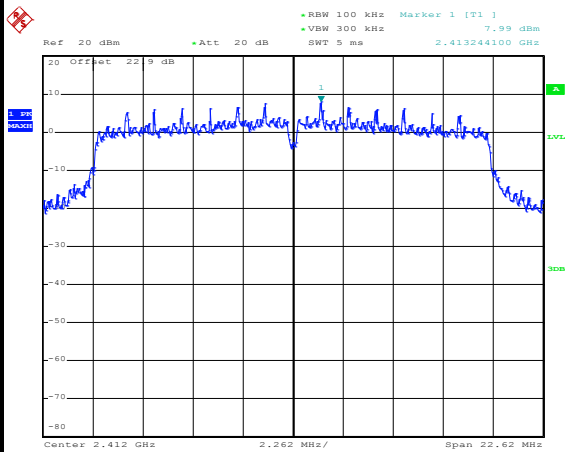
Date: 11.JUN.2019 11:13:27



Test Mode : 802.11n HT20

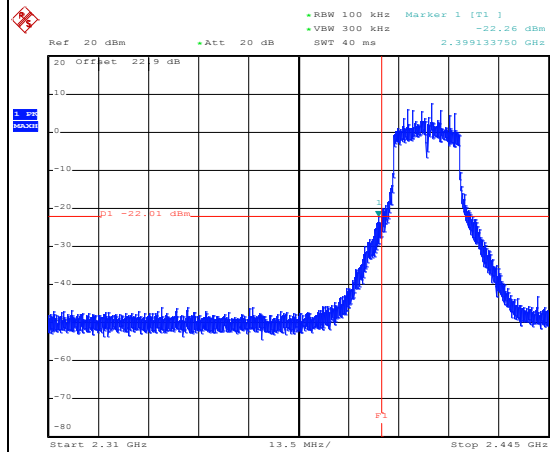
Test Channel : 01

100kHz PSD reference Level



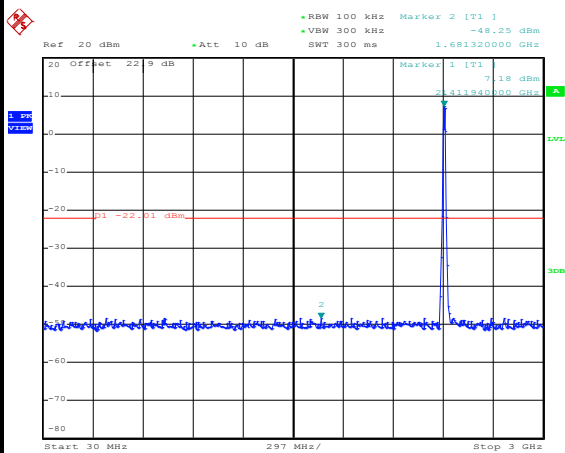
Date: 11.JUN.2019 11:22:39

Channel Plot



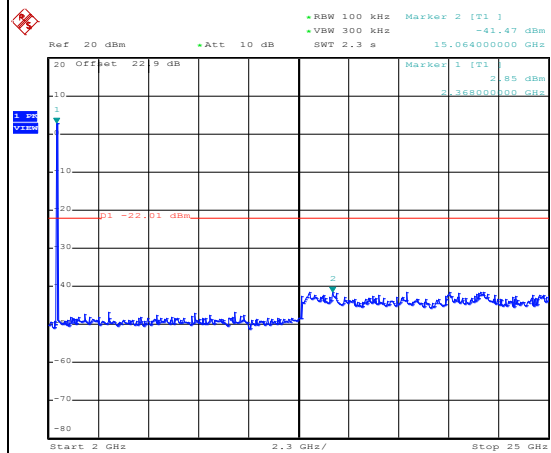
Date: 11.JUN.2019 11:23:17

Spurious Emission 30MHz~3GHz



Date: 11.JUN.2019 11:24:07

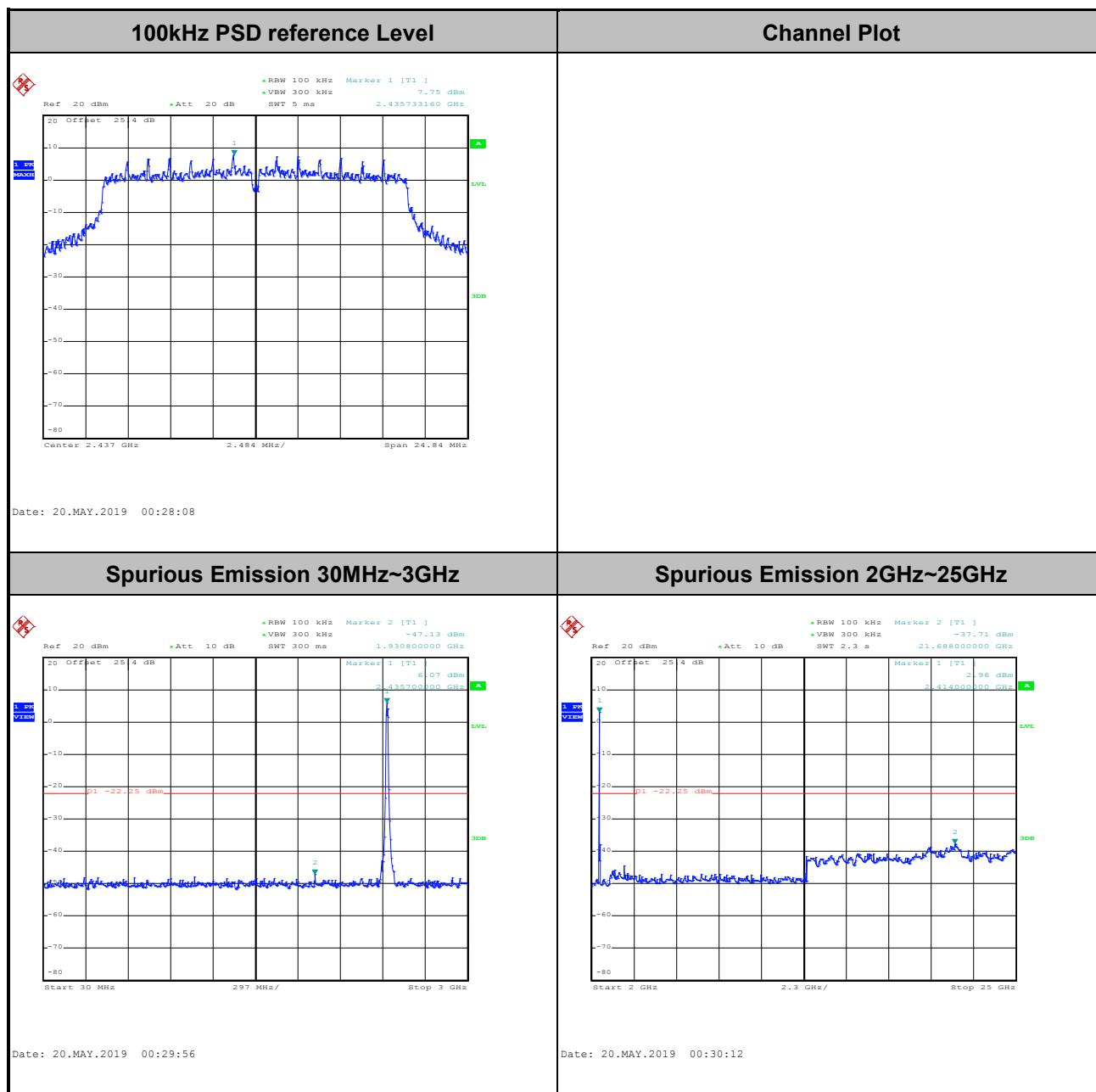
Spurious Emission 2GHz~25GHz

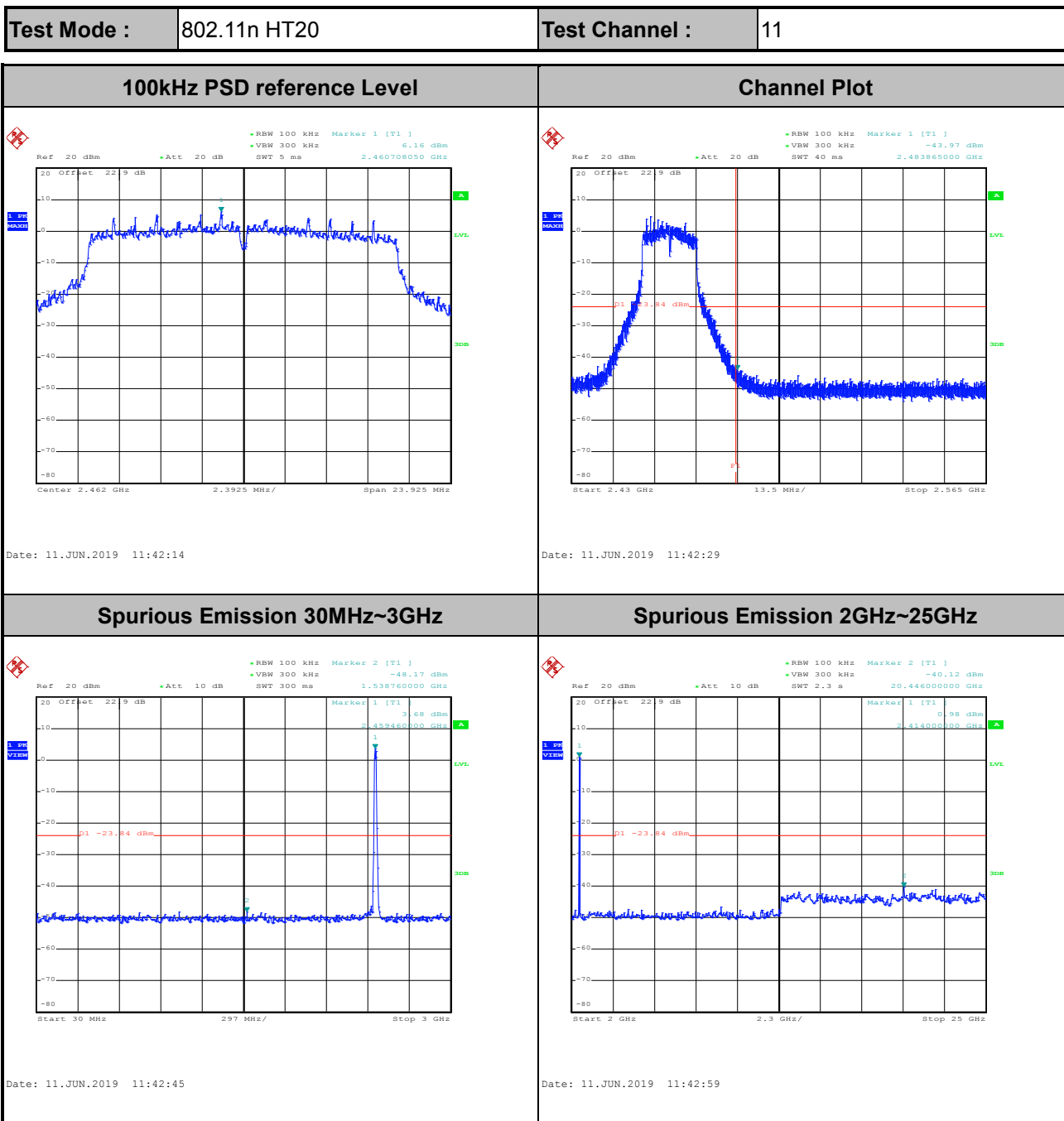


Date: 11.JUN.2019 11:24:22

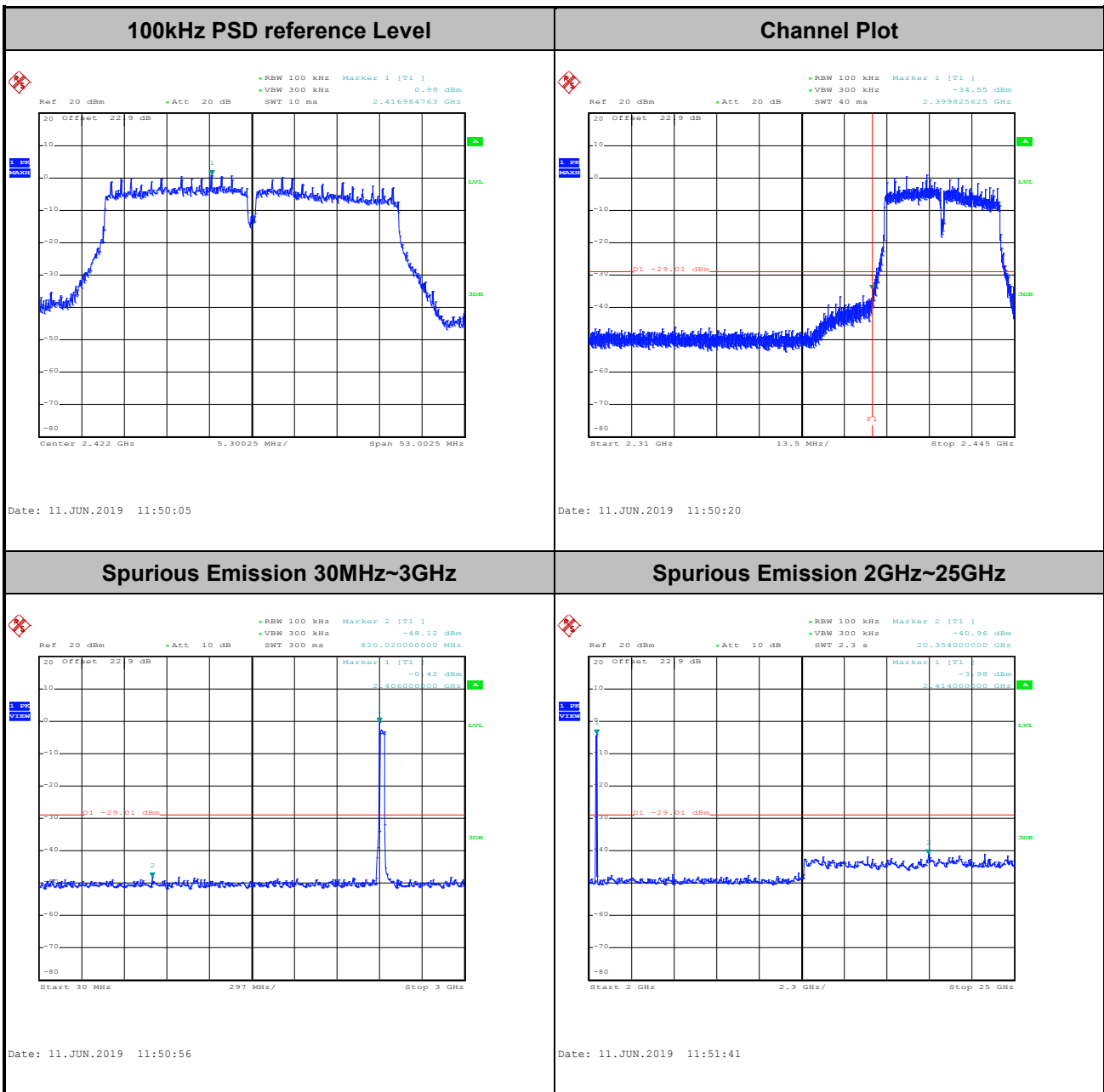


Test Mode :	802.11n HT20	Test Channel :	06
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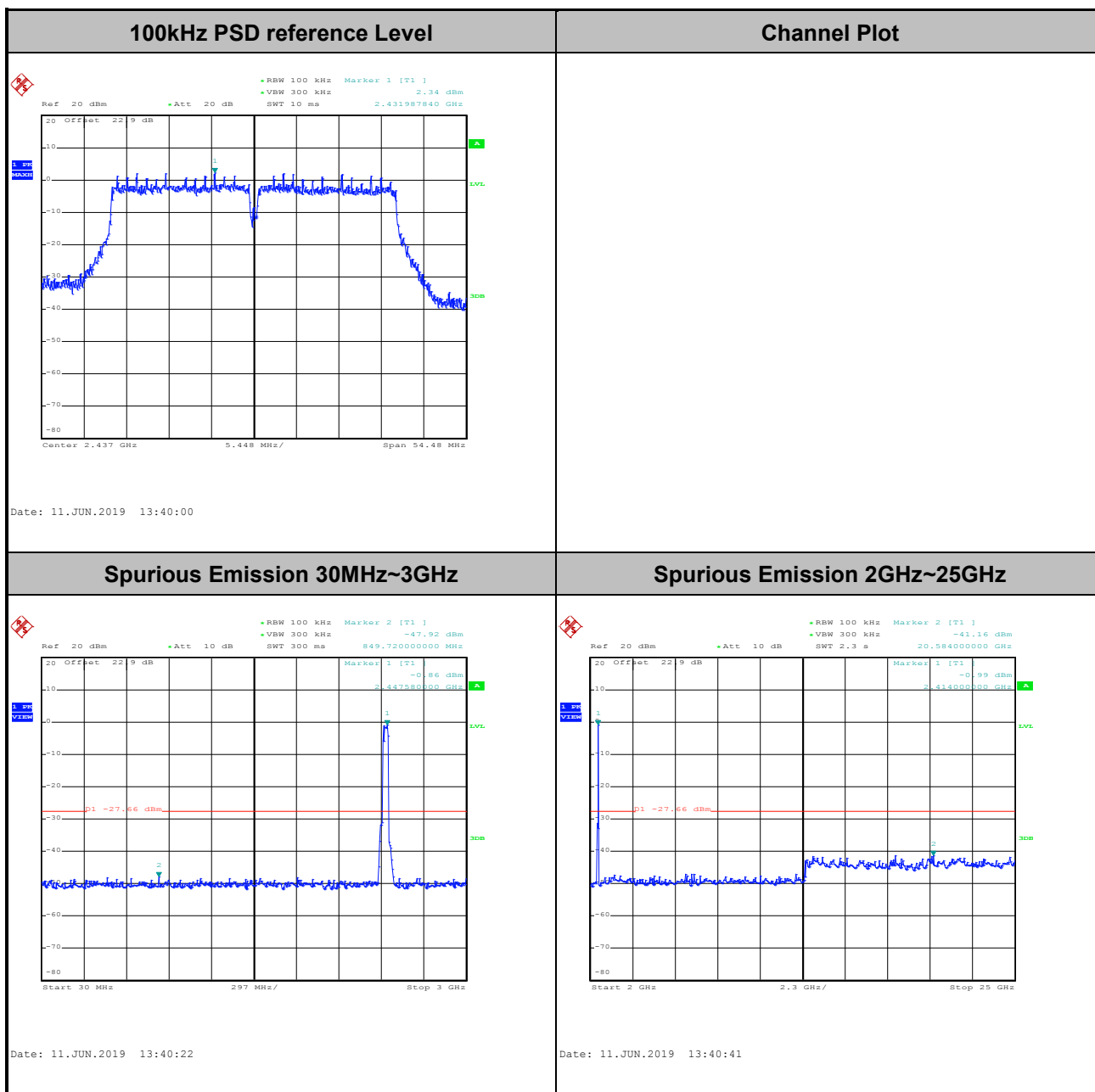


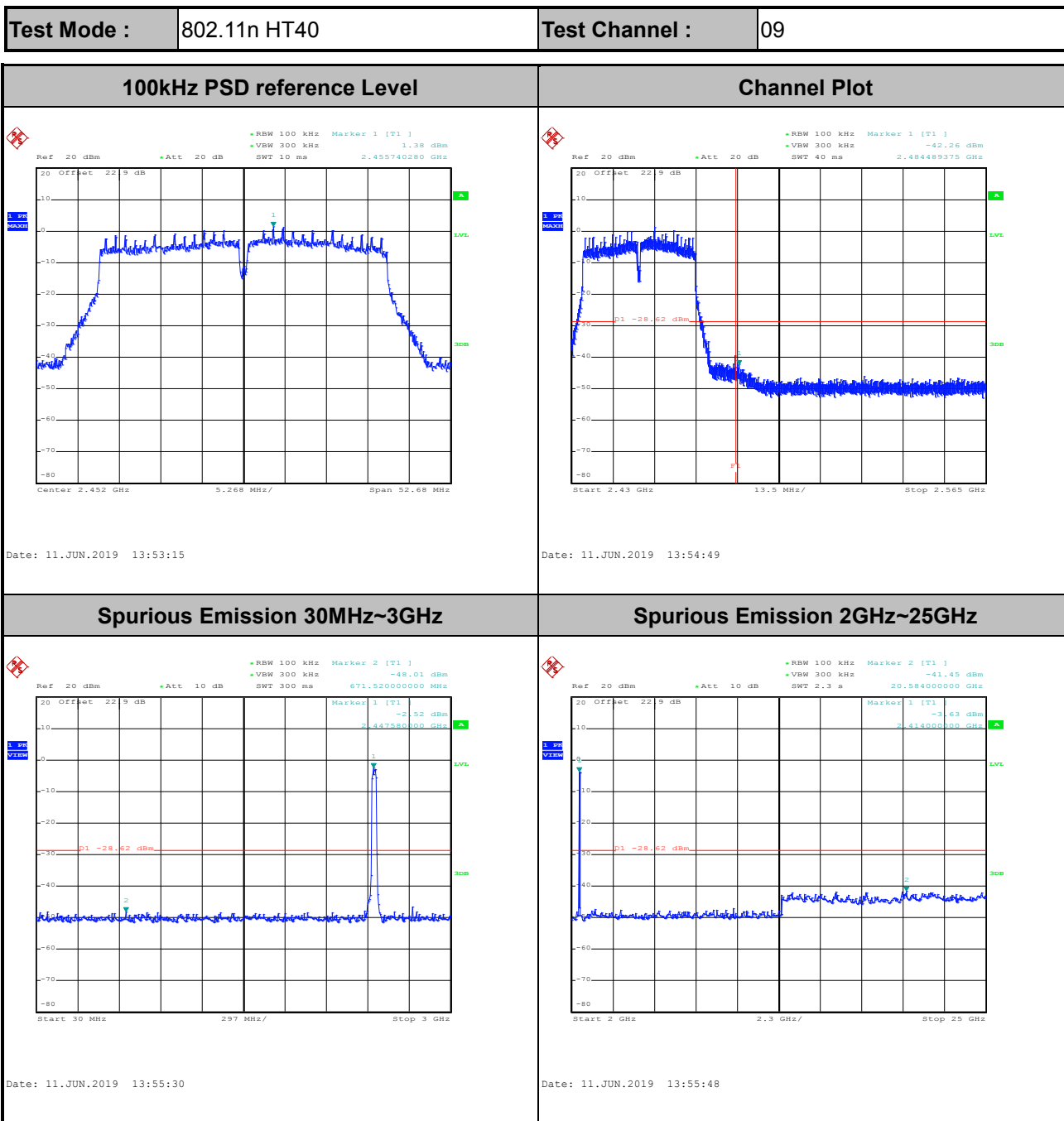
Test Mode :	802.11n HT40	Test Channel :	03
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Test Mode :	802.11n HT40	Test Channel :	06
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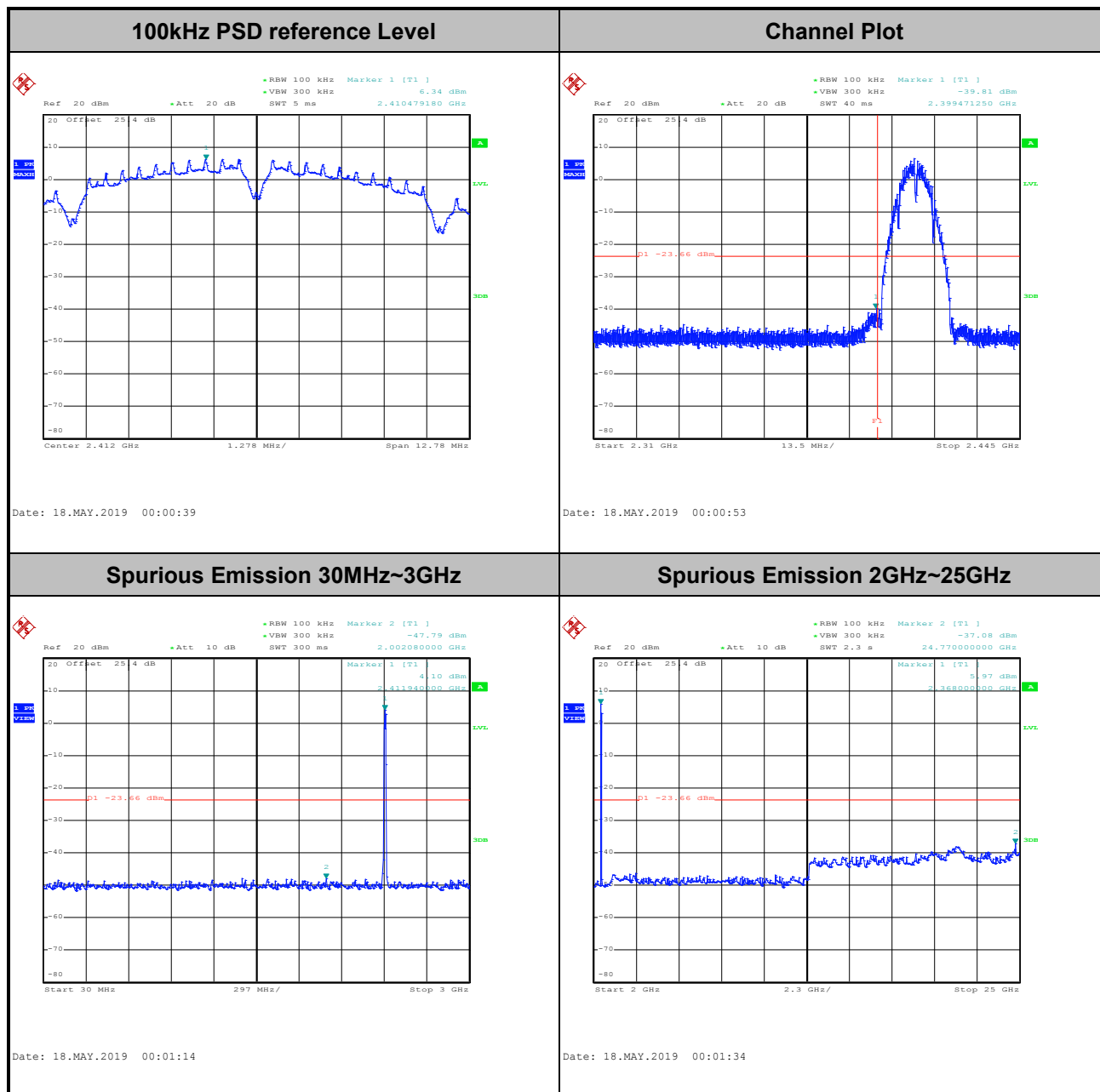






Number of TX = 2, Chain 0 (Measured)

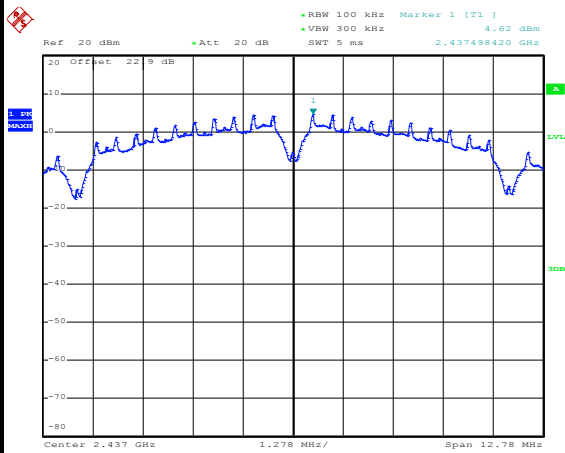
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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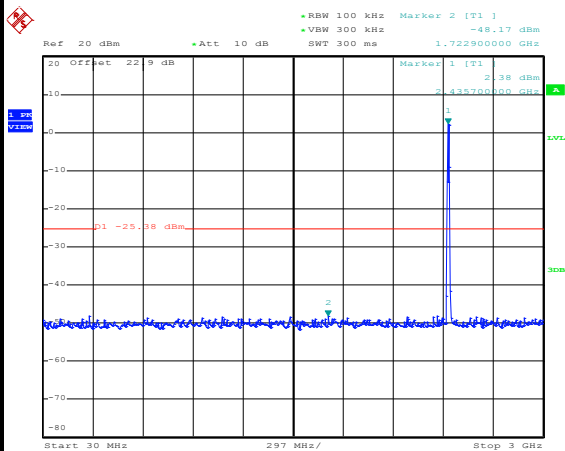
100kHz PSD reference Level



Date: 11.JUN.2019 14:58:56

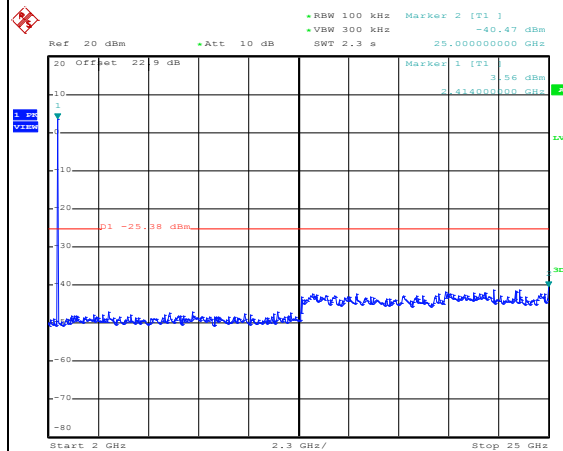
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 11.JUN.2019 14:59:18

Spurious Emission 2GHz~25GHz

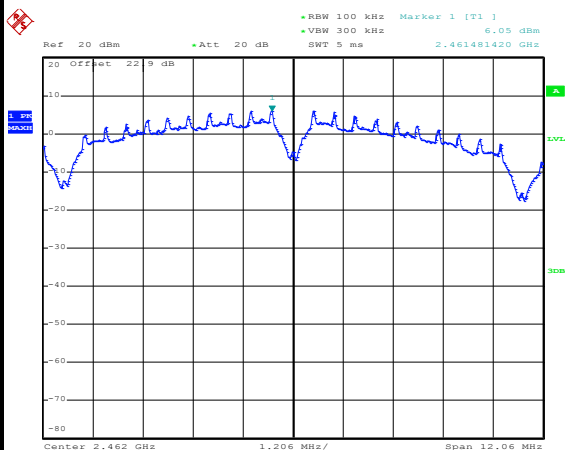


Date: 11.JUN.2019 14:59:49



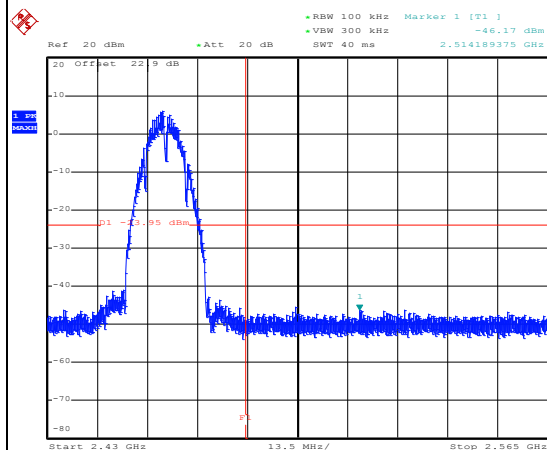
Test Mode :	802.11b	Test Channel :	11
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100kHz PSD reference Level



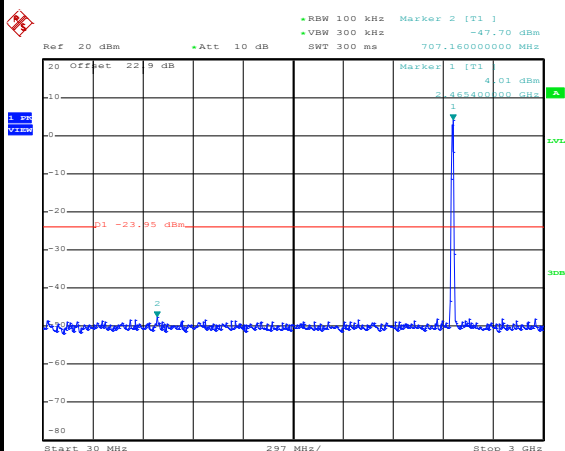
Date: 11.JUN.2019 15:06:51

Channel Plot



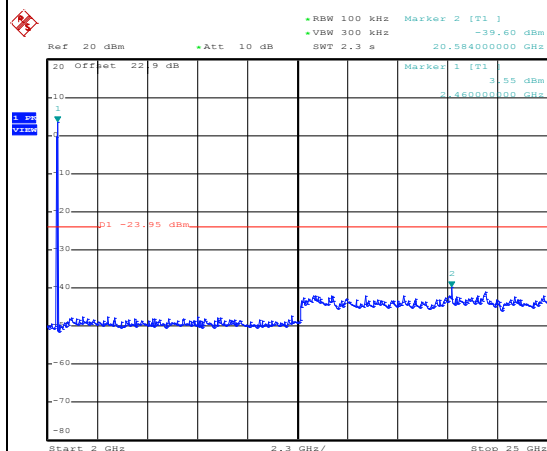
Date: 11.JUN.2019 15:07:04

Spurious Emission 30MHz~3GHz



Date: 11.JUN.2019 15:07:20

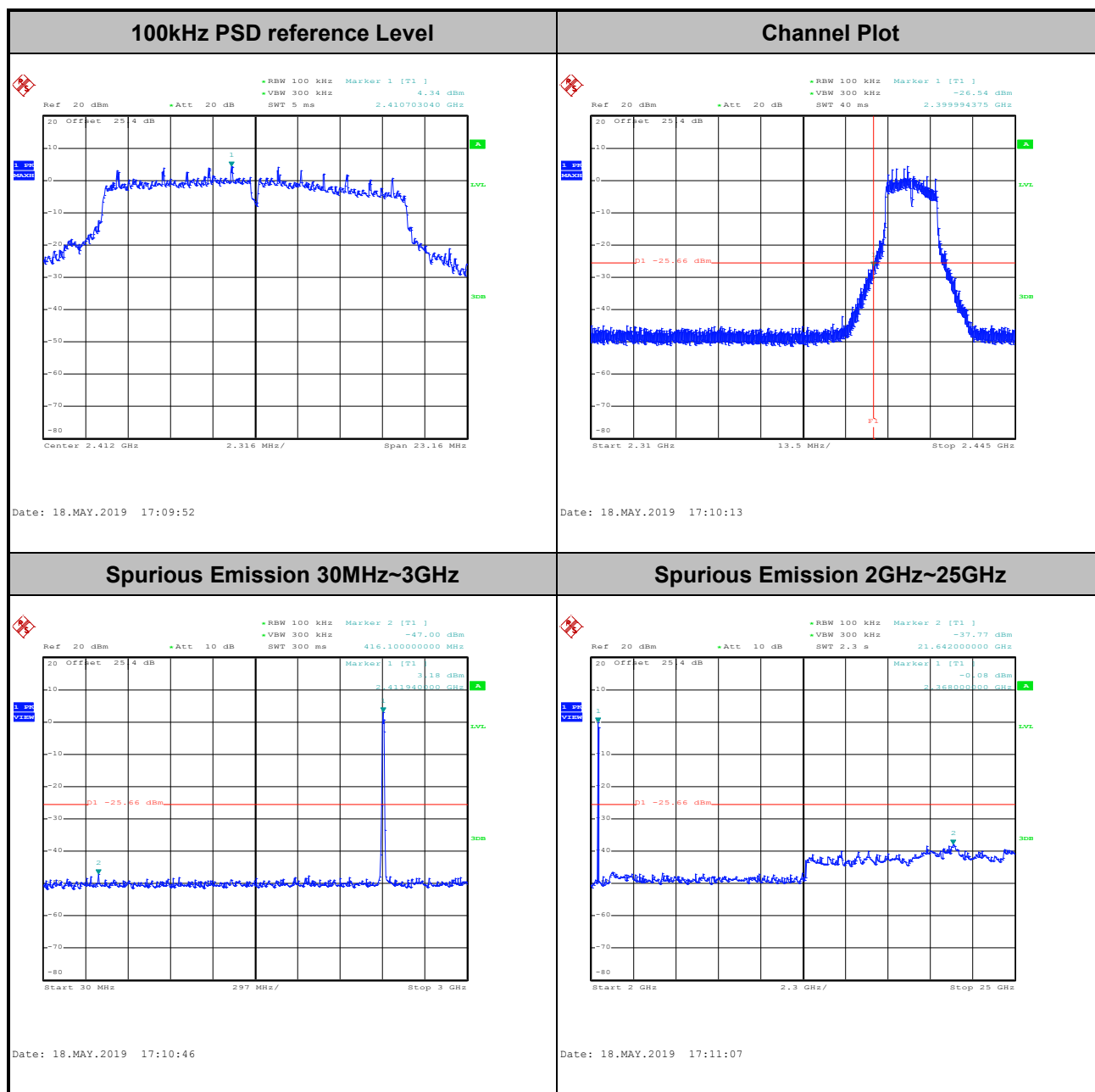
Spurious Emission 2GHz~25GHz



Date: 11.JUN.2019 15:07:34



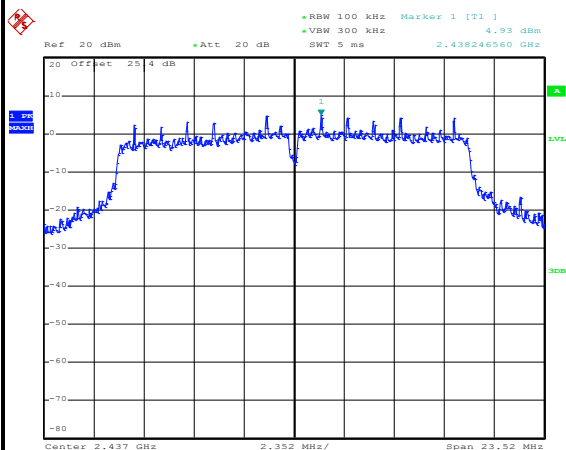
Test Mode :	802.11g	Test Channel :	01
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Test Mode :	802.11g	Test Channel :	06
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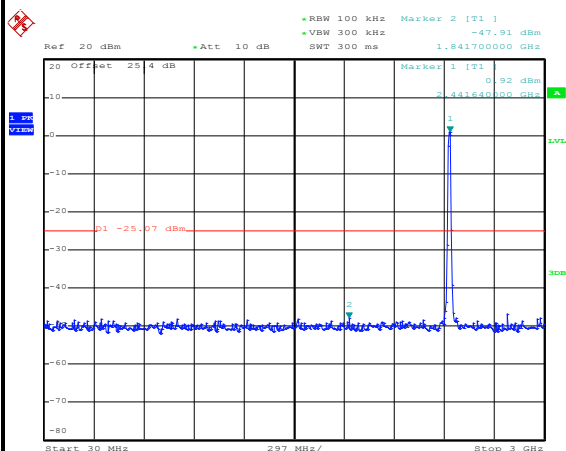
100kHz PSD reference Level



Date: 18.MAY.2019 17:21:57

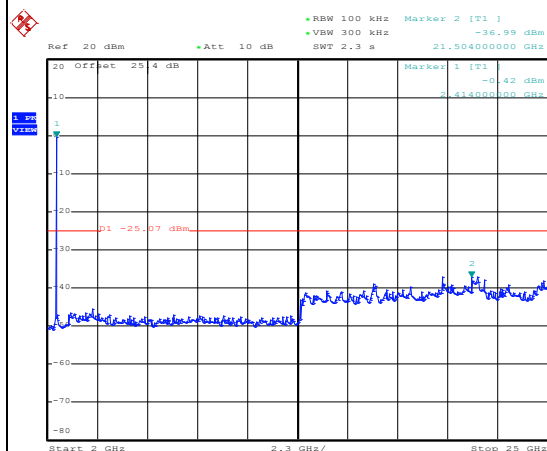
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 18.MAY.2019 17:22:53

Spurious Emission 2GHz~25GHz

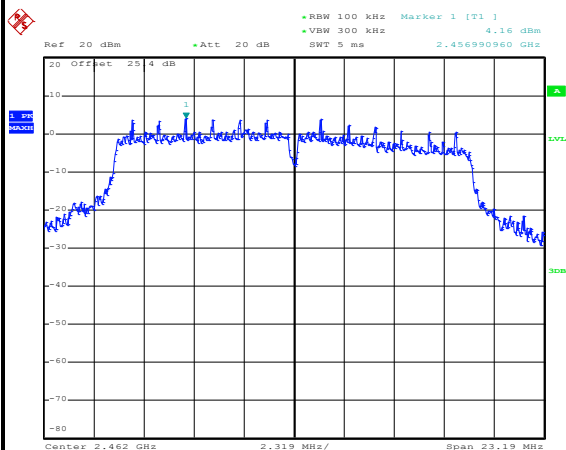


Date: 18.MAY.2019 17:23:10



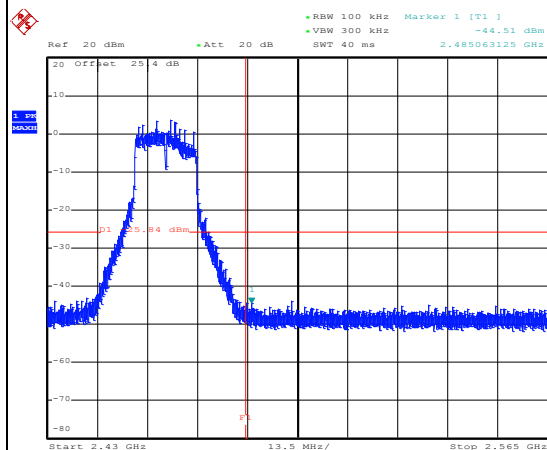
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



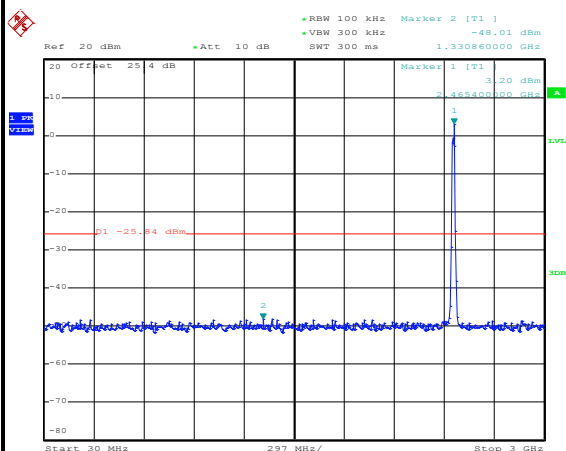
Date: 18.MAY.2019 17:26:02

Channel Plot



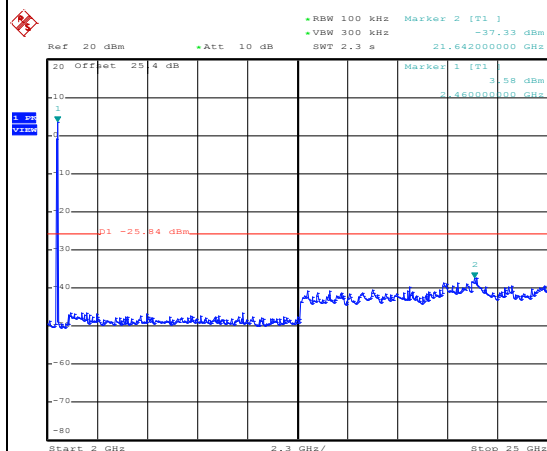
Date: 18.MAY.2019 17:26:18

Spurious Emission 30MHz~3GHz



Date: 18.MAY.2019 17:26:36

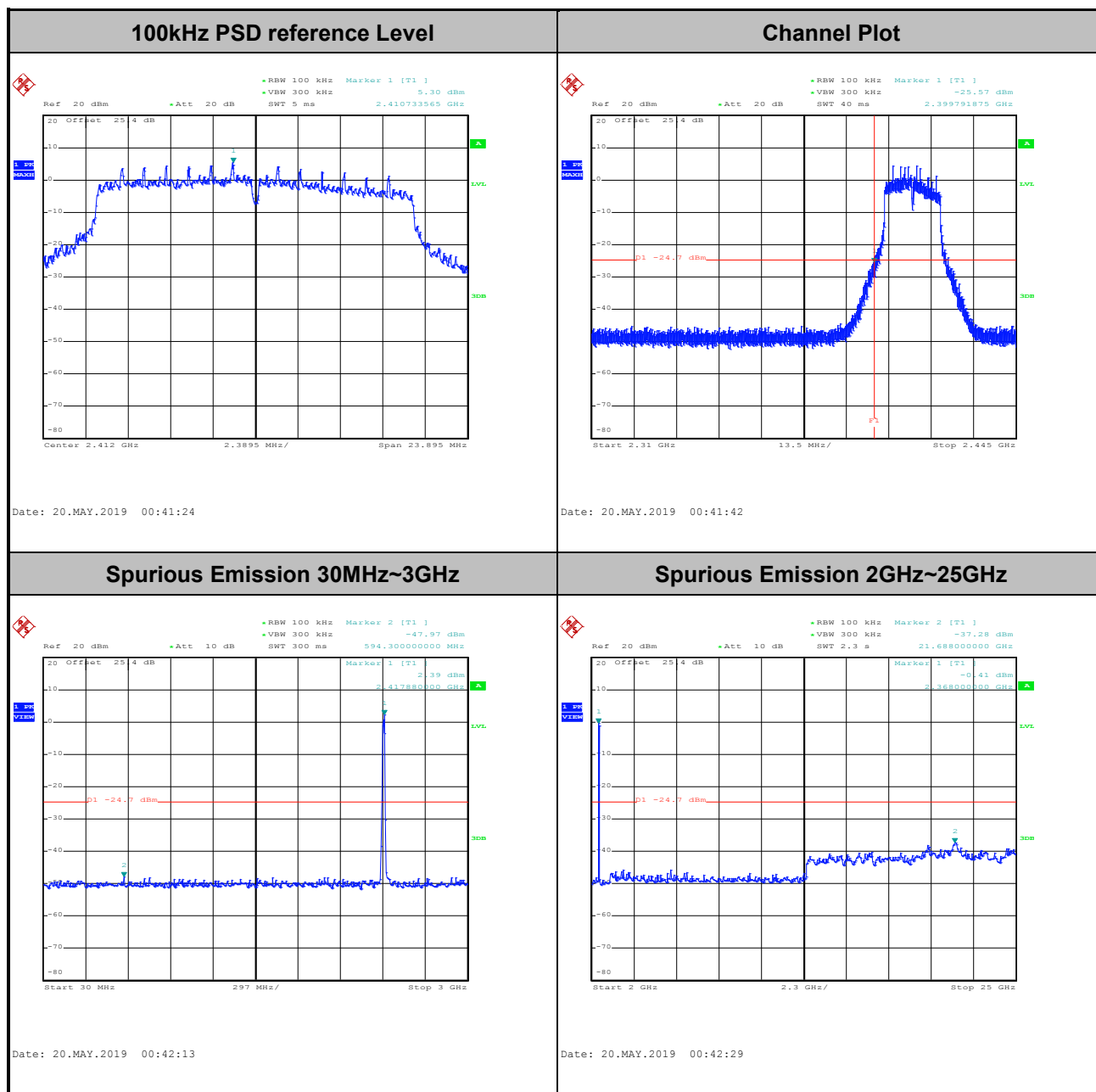
Spurious Emission 2GHz~25GHz



Date: 18.MAY.2019 17:26:51

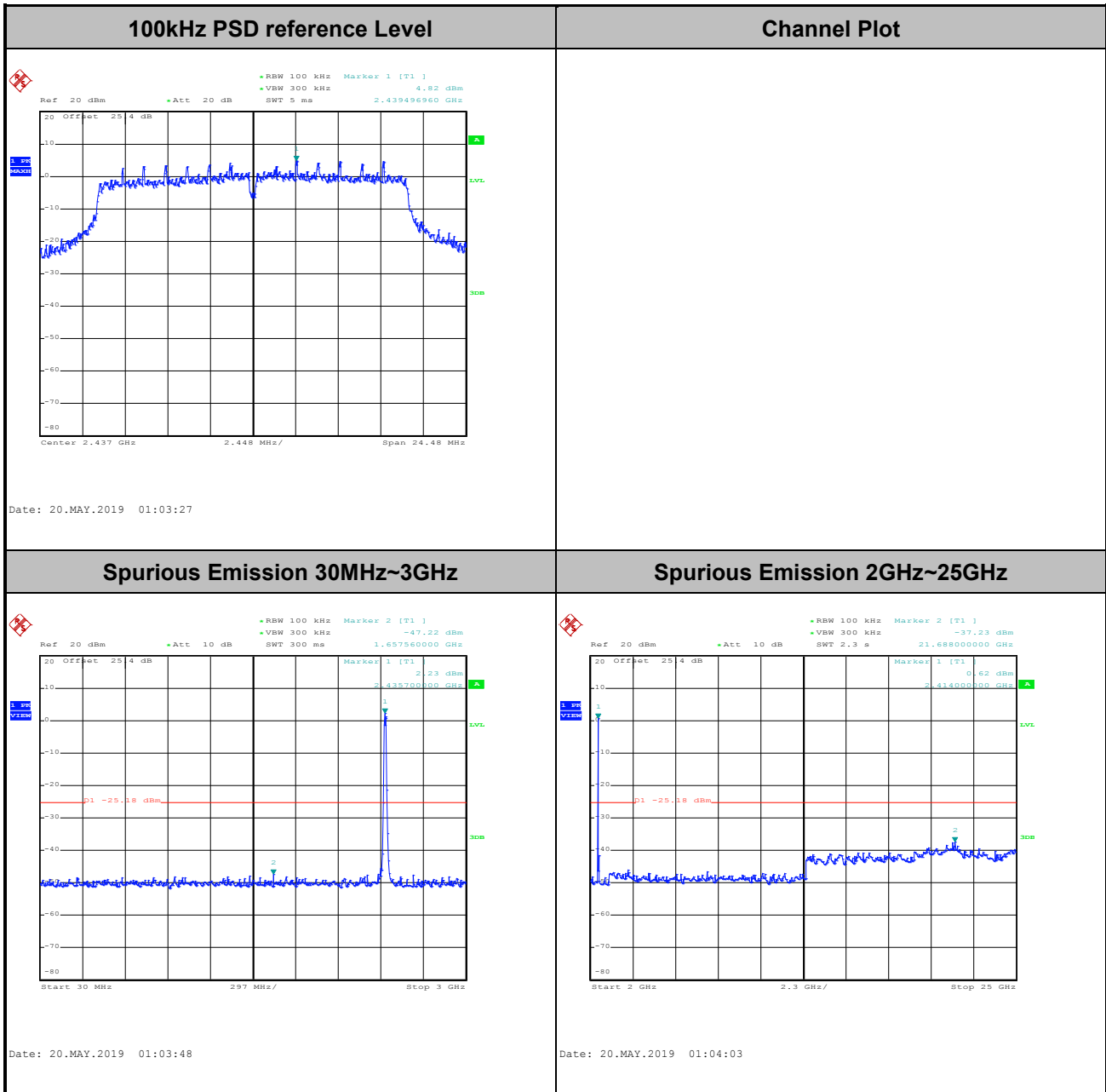


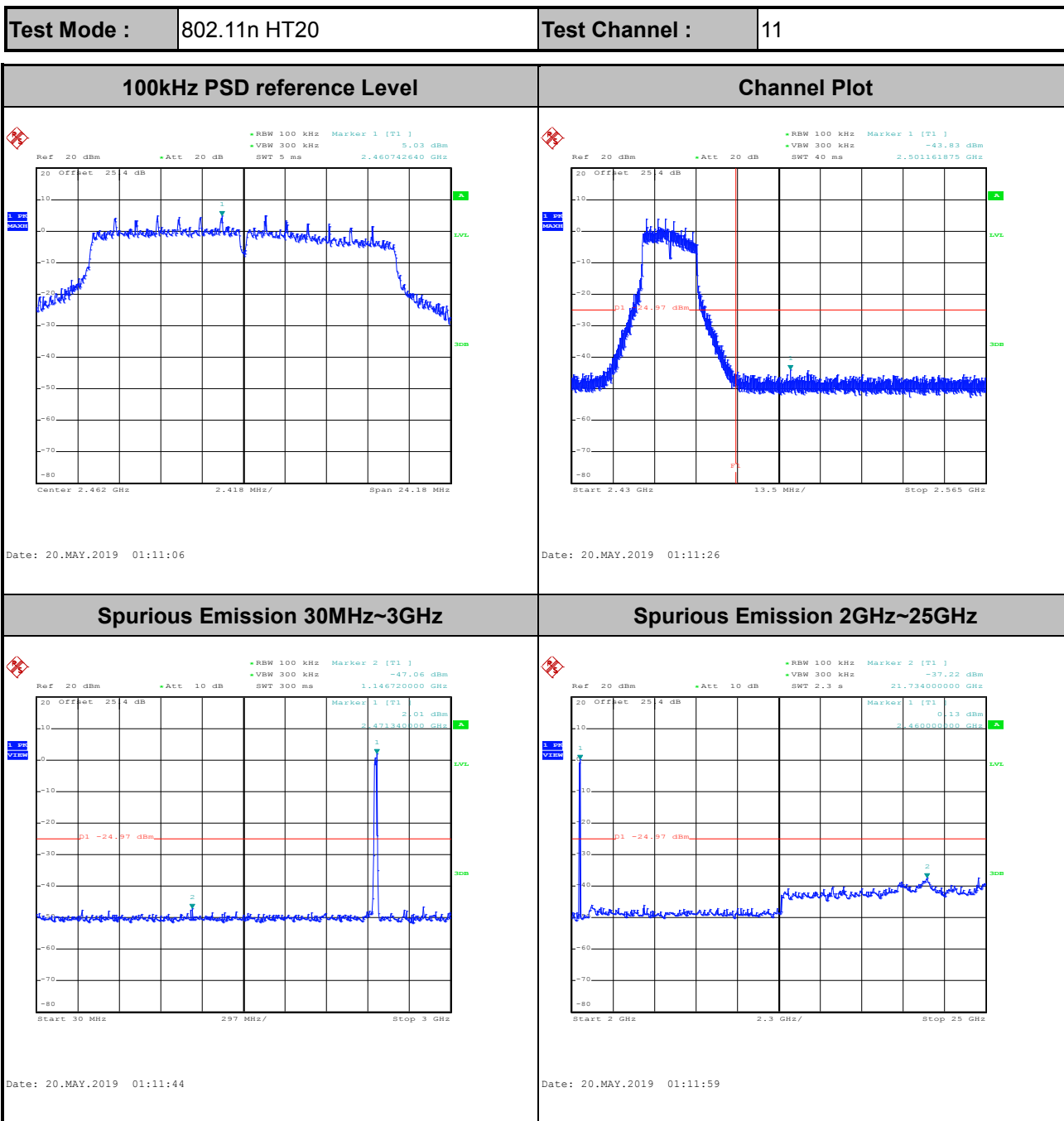
Test Mode :	802.11n HT20	Test Channel :	01
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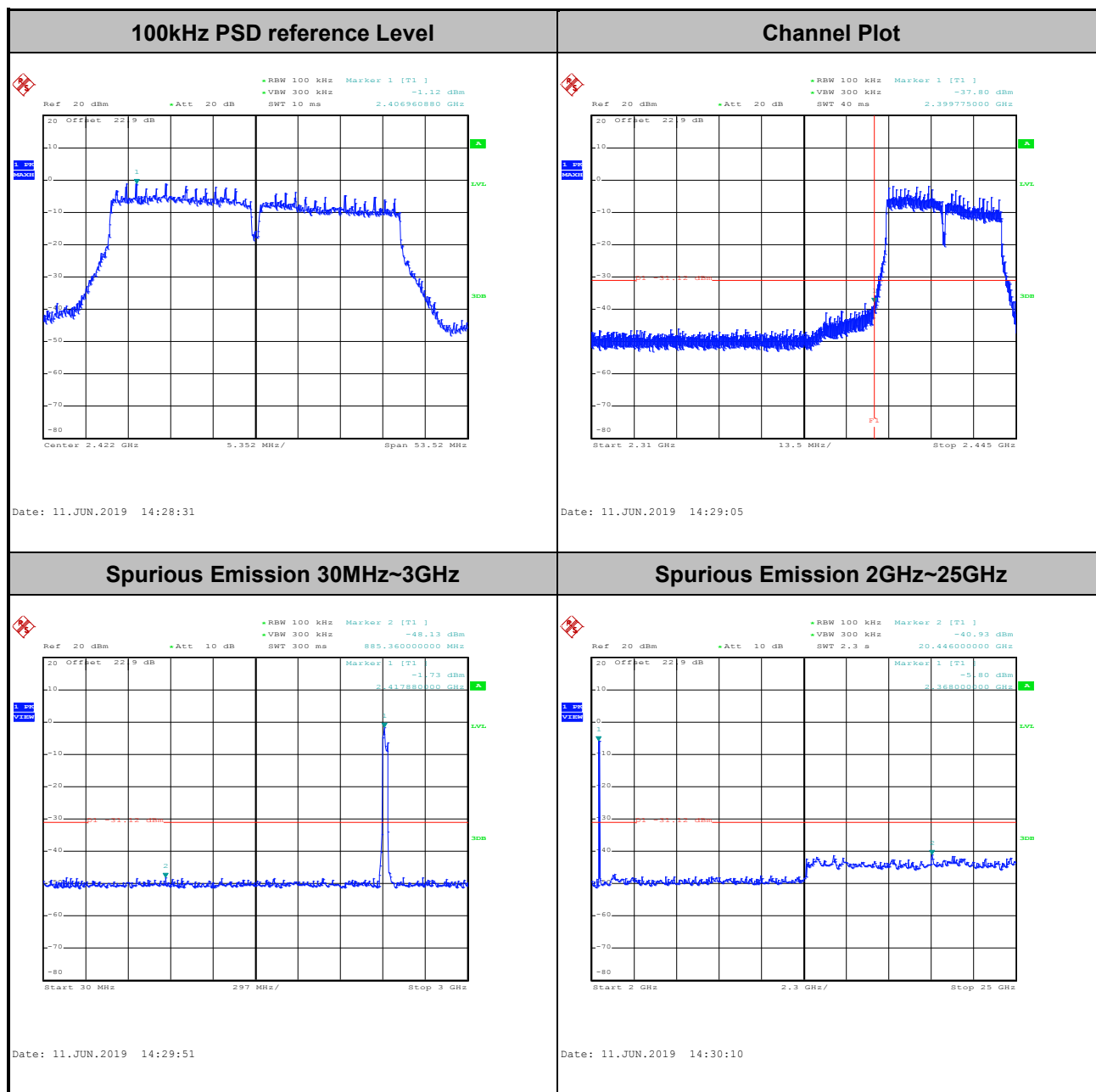
Test Mode :	802.11n HT20	Test Channel :	06
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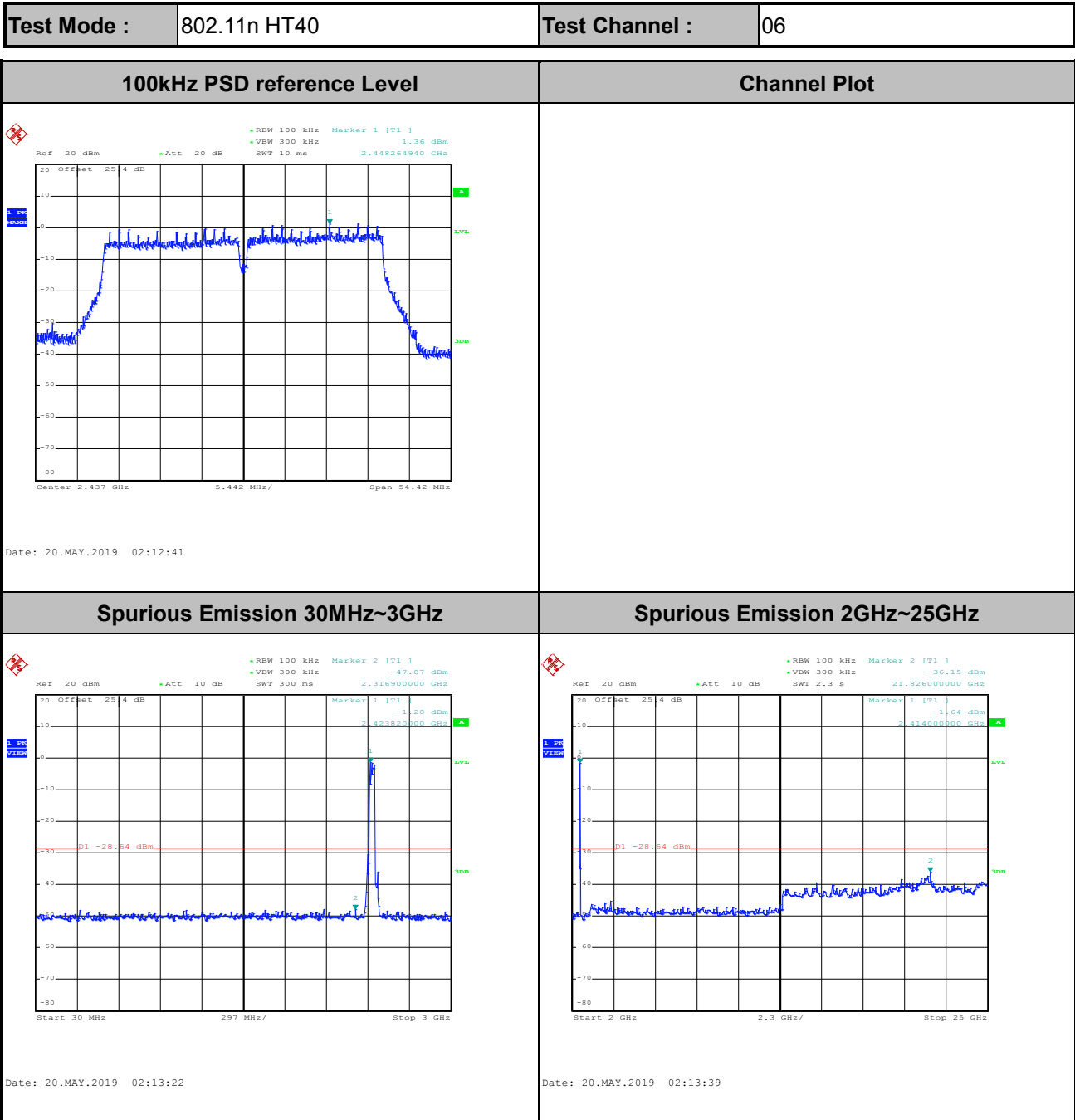


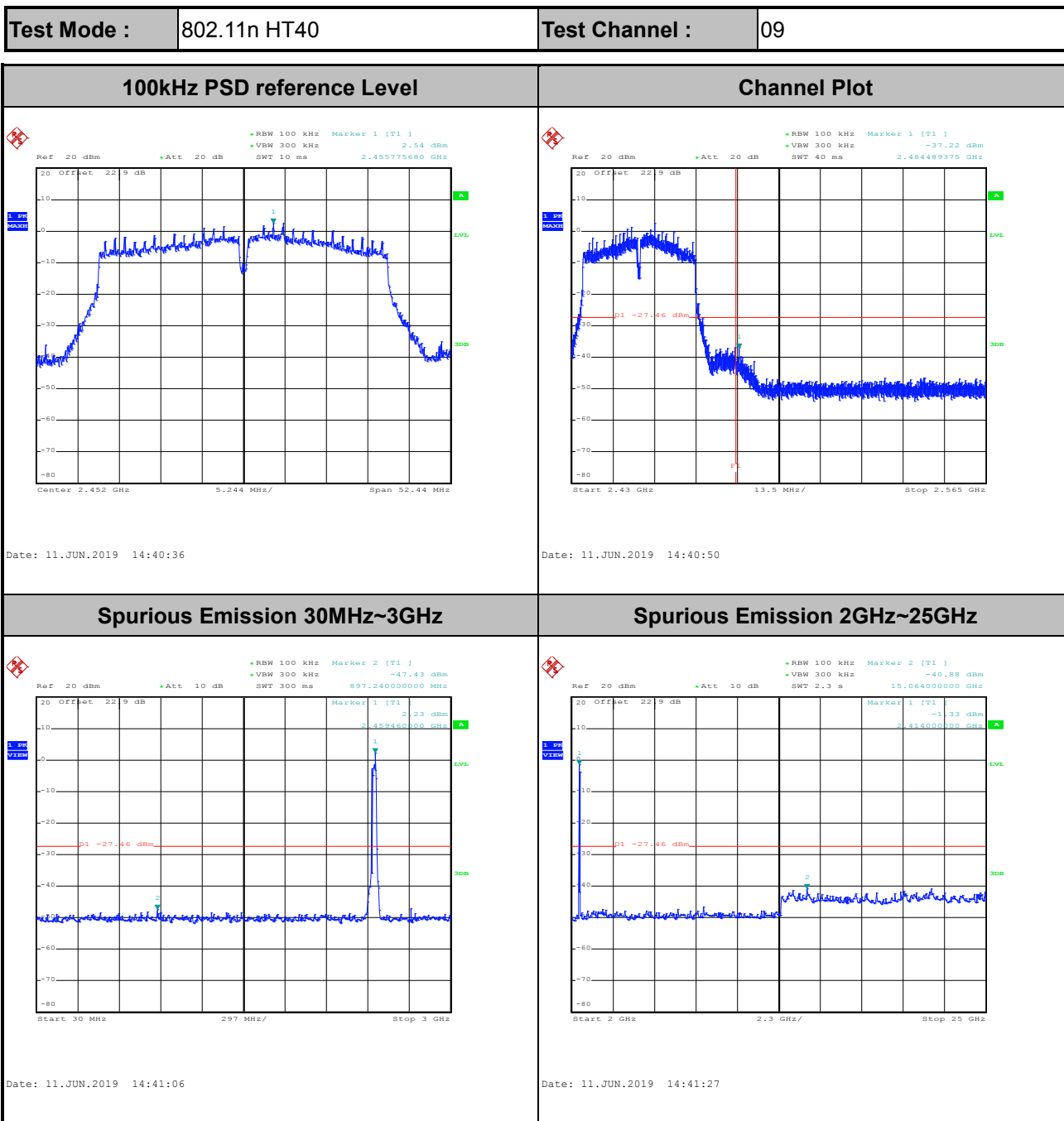




Test Mode :	802.11n HT40	Test Channel :	03
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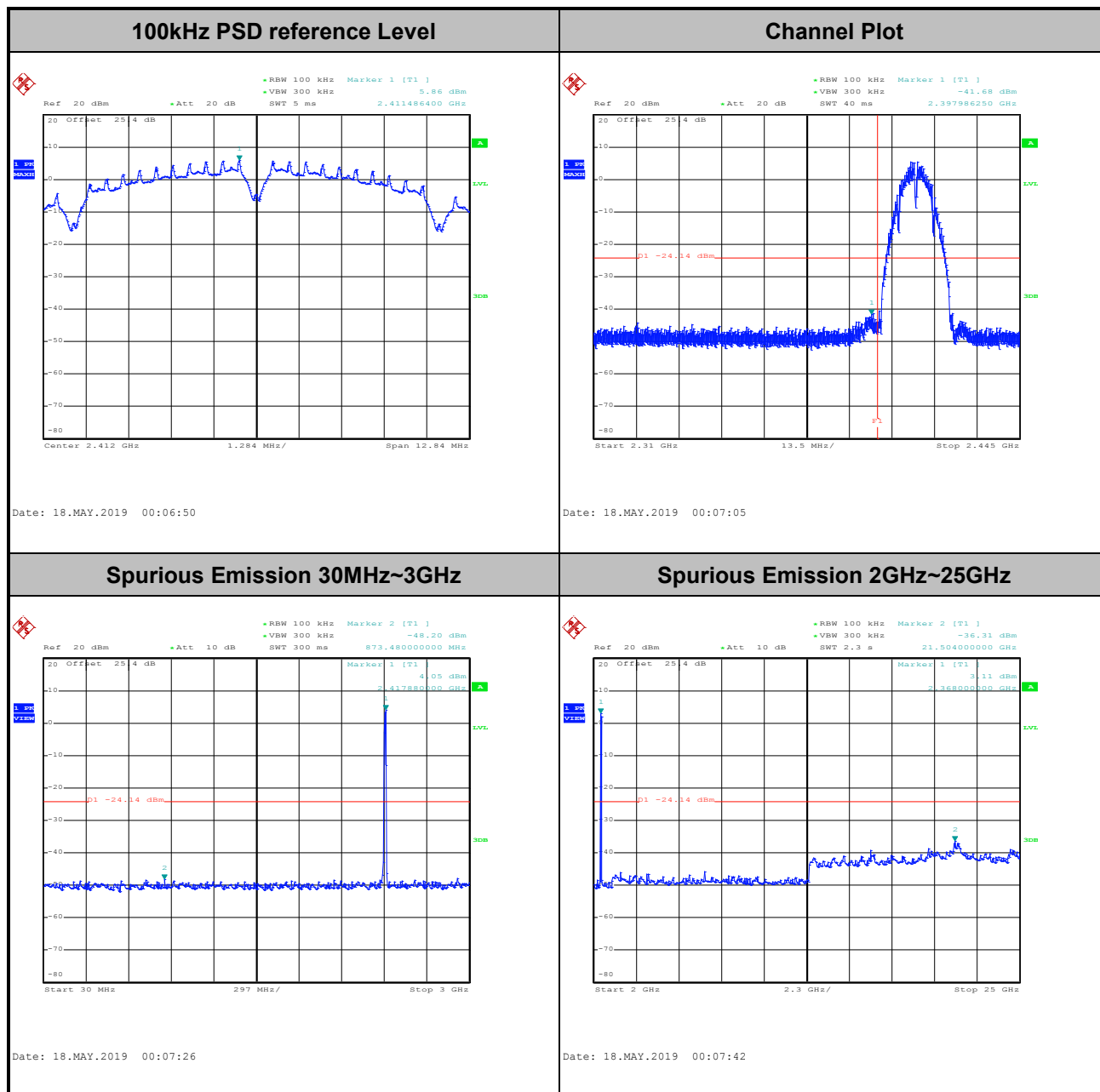






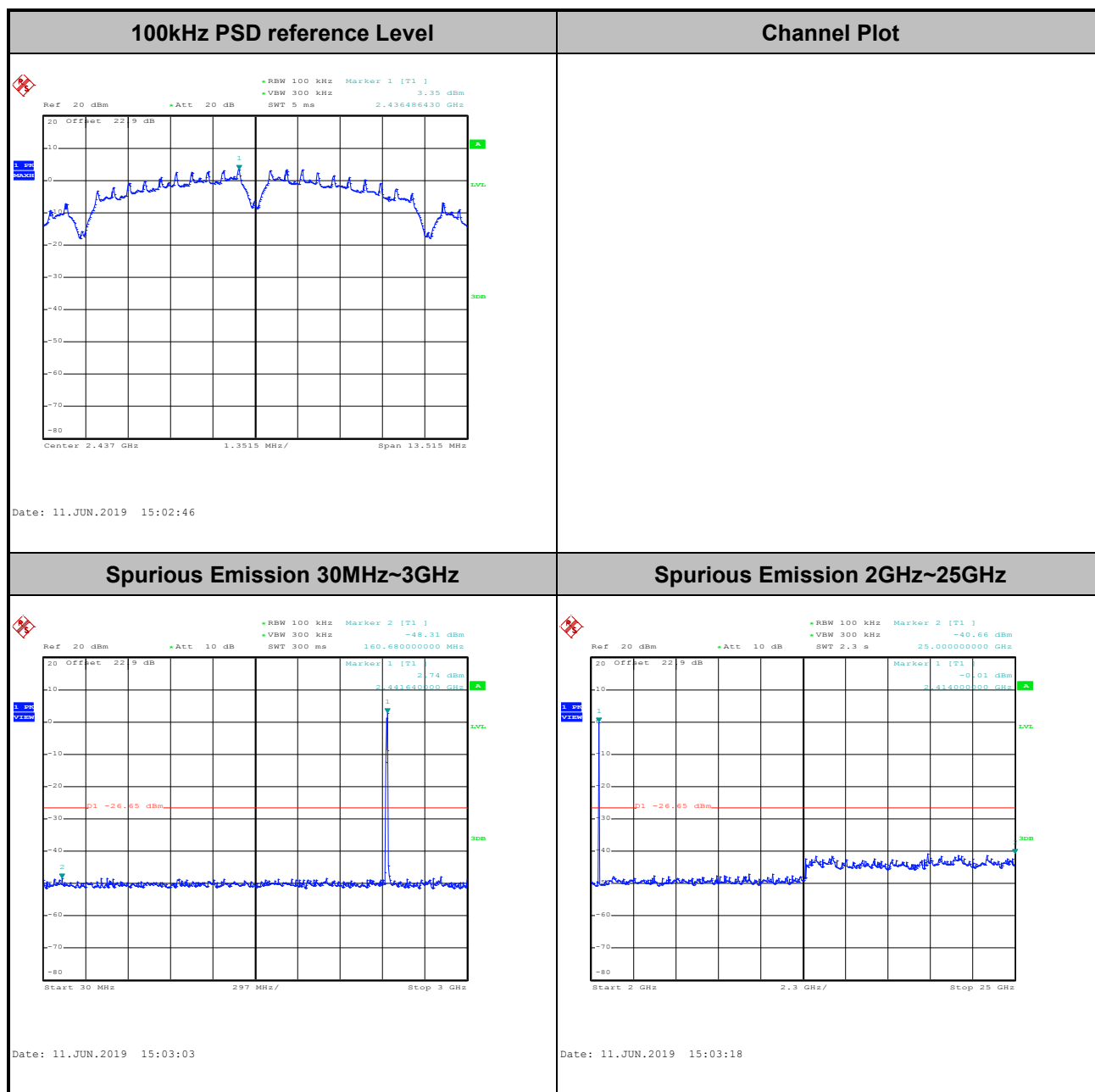
Number of TX = 2, Chain 1 (Measured)

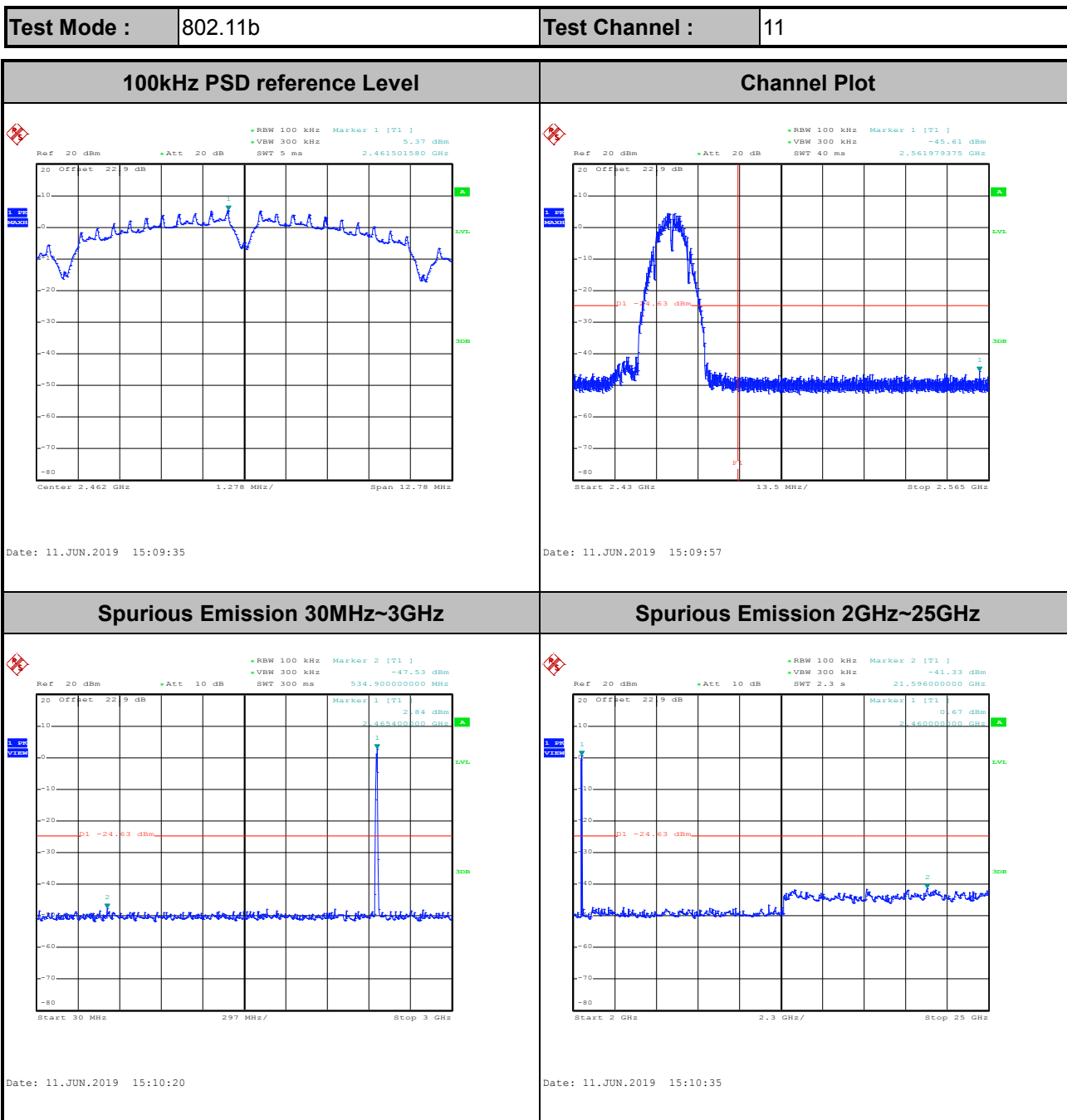
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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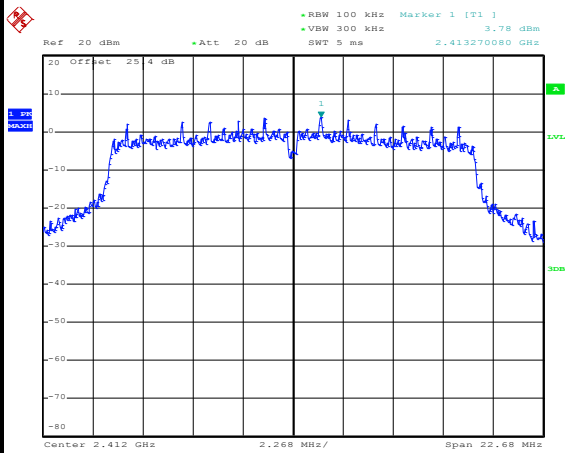






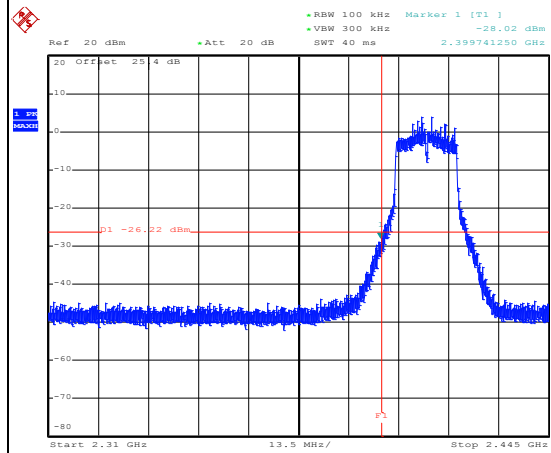
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



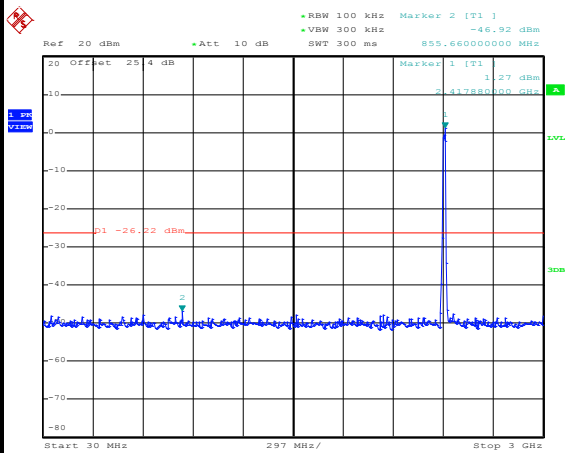
Date: 18.MAY.2019 17:13:22

Channel Plot



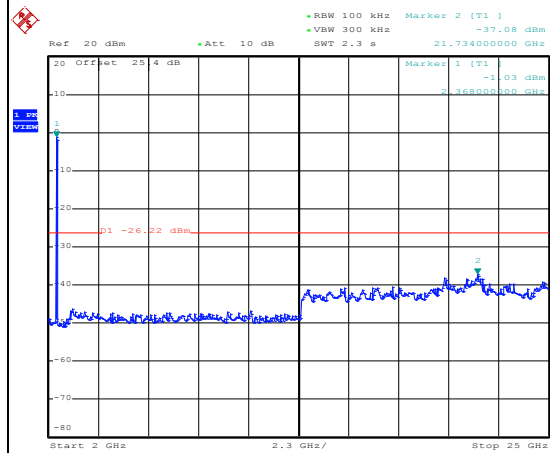
Date: 18.MAY.2019 17:13:43

Spurious Emission 30MHz~3GHz



Date: 18.MAY.2019 17:14:09

Spurious Emission 2GHz~25GHz

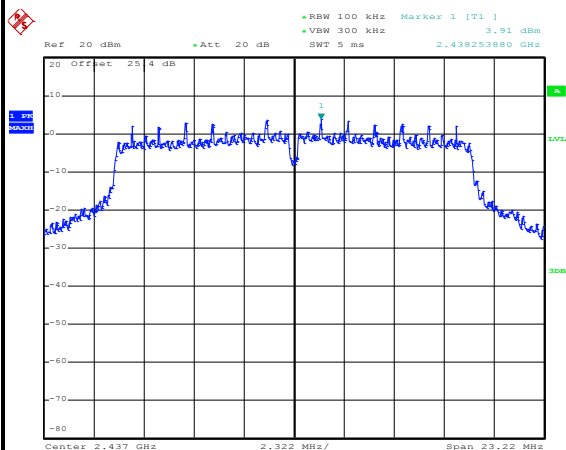


Date: 18.MAY.2019 17:14:25



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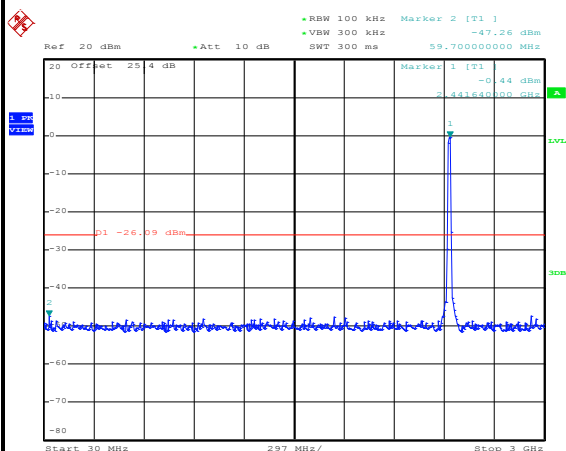
100kHz PSD reference Level



Date: 18.MAY.2019 17:18:53

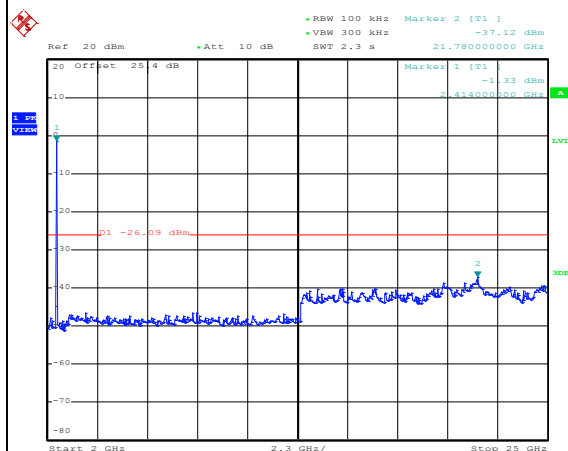
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 18.MAY.2019 17:19:23

Spurious Emission 2GHz~25GHz

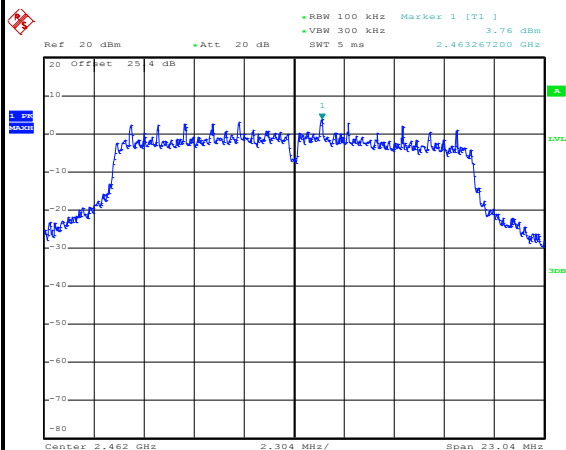


Date: 18.MAY.2019 17:19:41



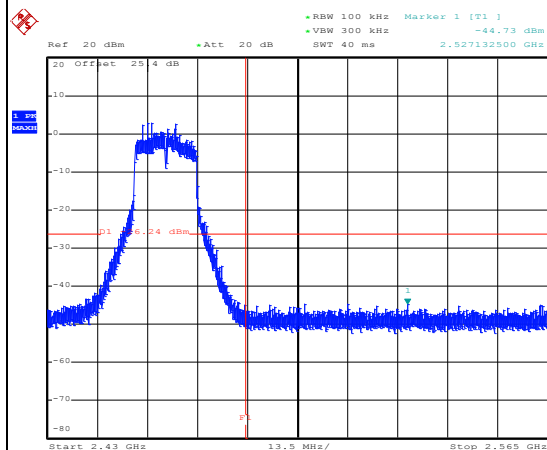
Test Mode :	802.11g	Test Channel :	11
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100kHz PSD reference Level



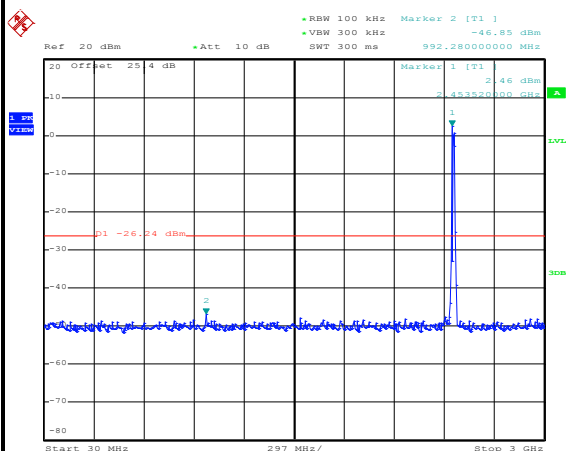
Date: 18.MAY.2019 17:30:39

Channel Plot



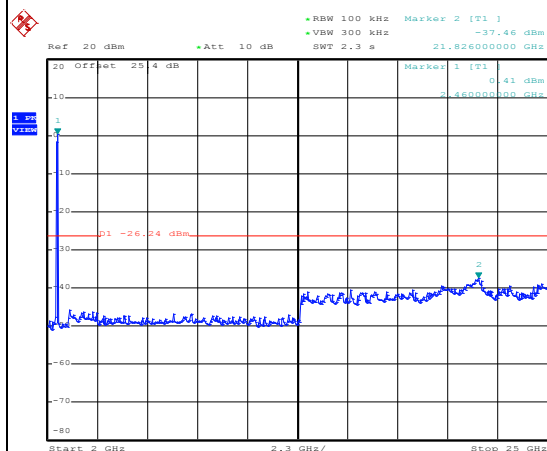
Date: 18.MAY.2019 17:30:52

Spurious Emission 30MHz~3GHz

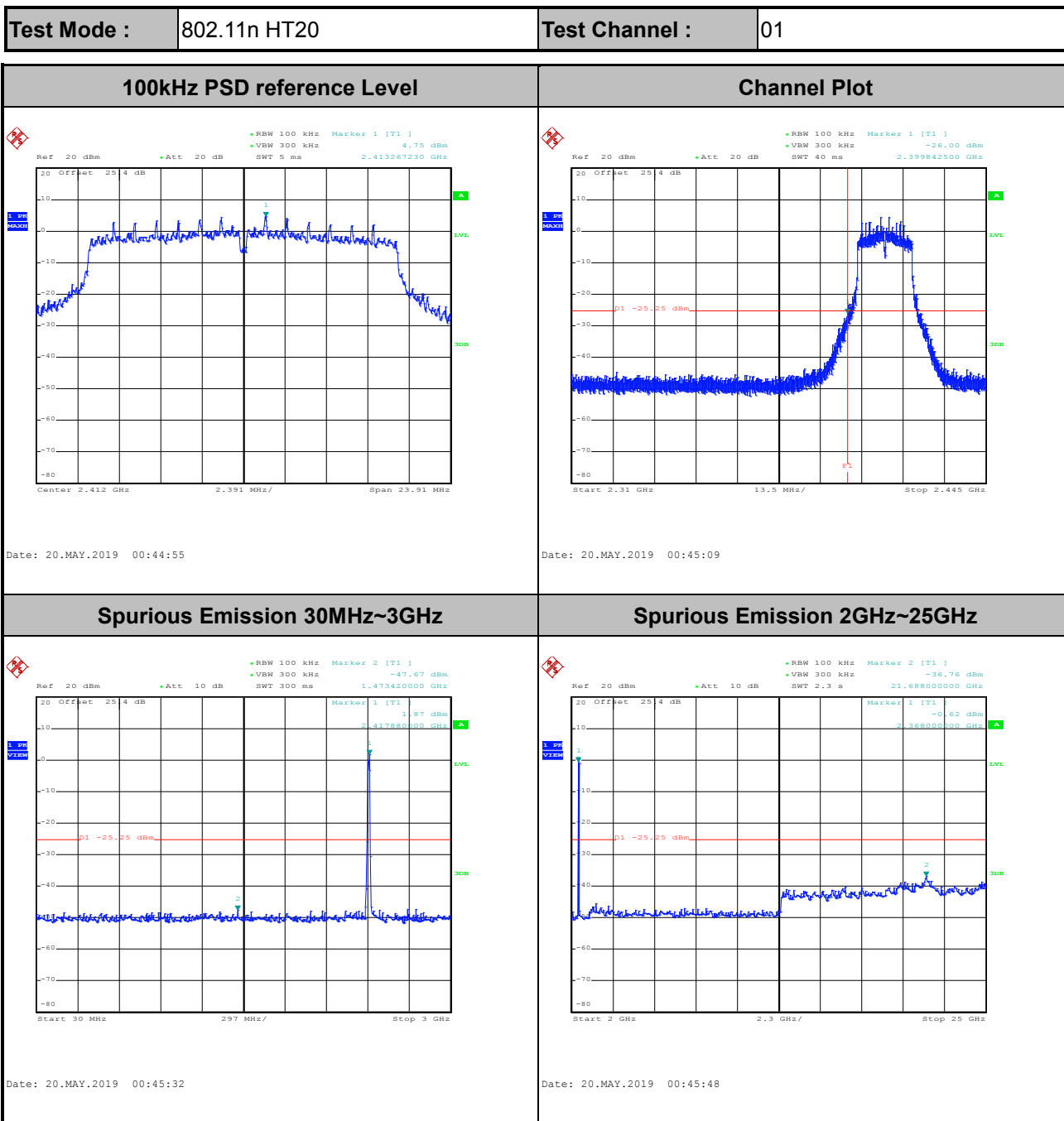


Date: 19.MAY.2019 23:17:17

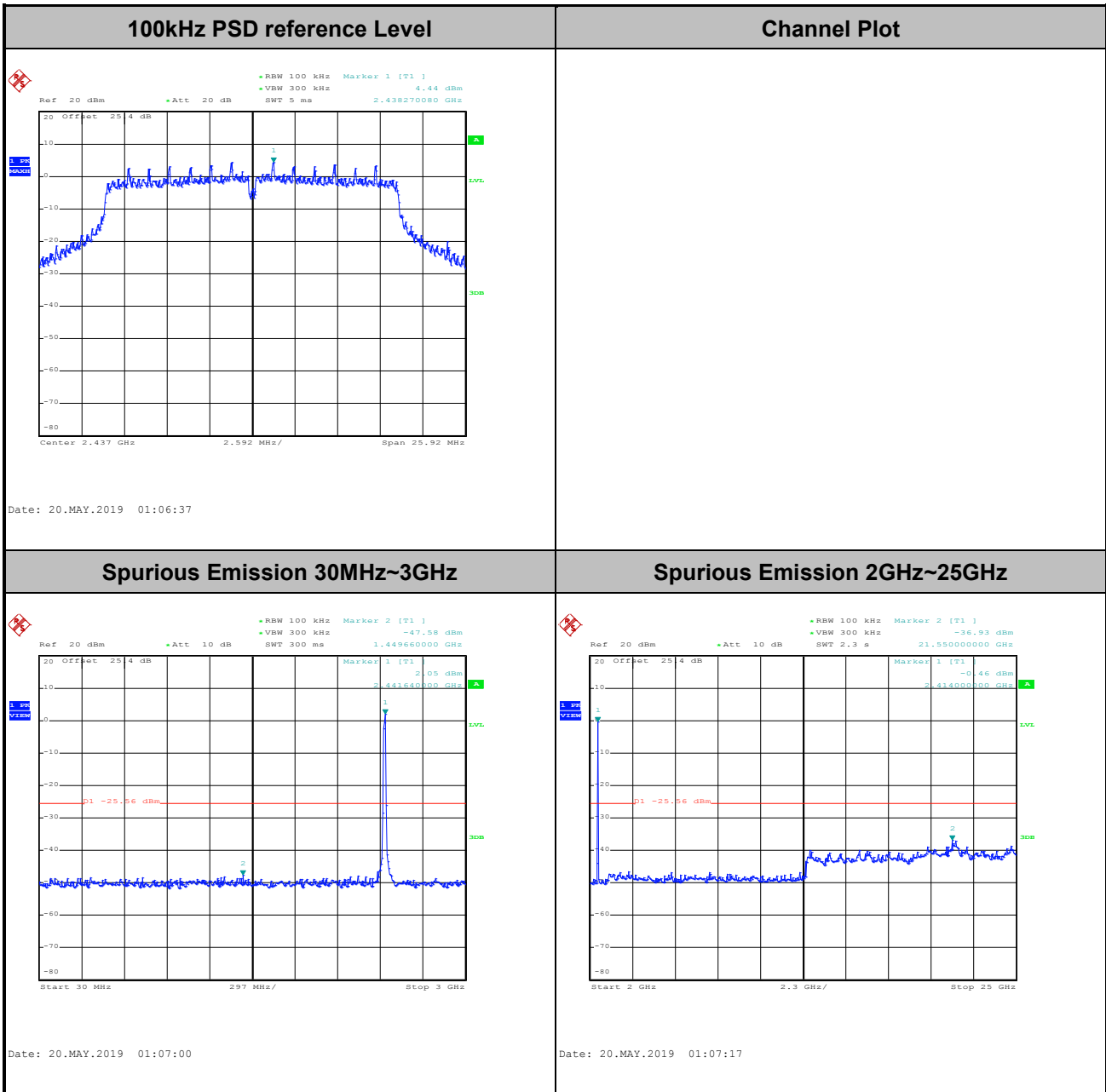
Spurious Emission 2GHz~25GHz



Date: 19.MAY.2019 23:17:36

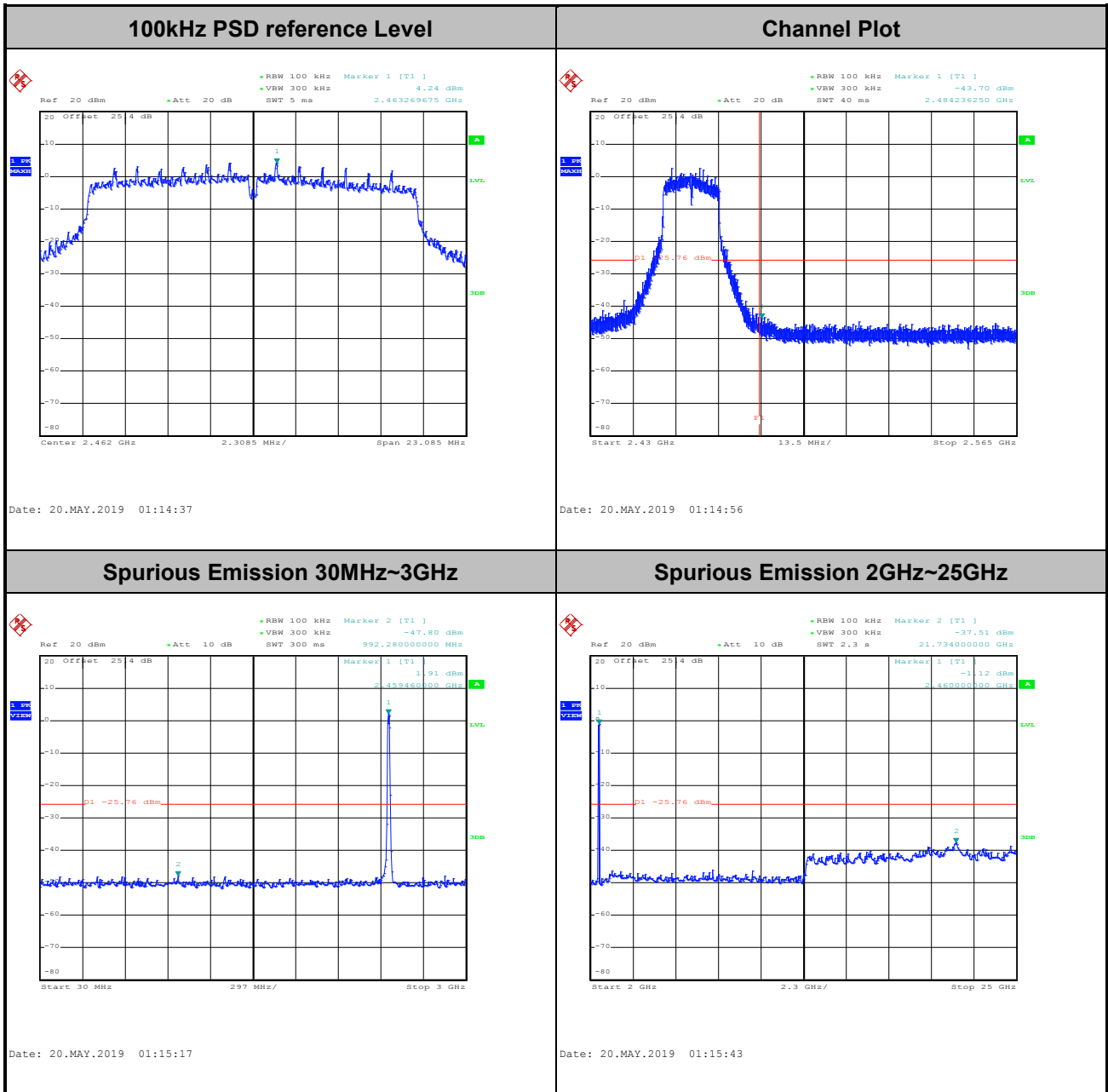


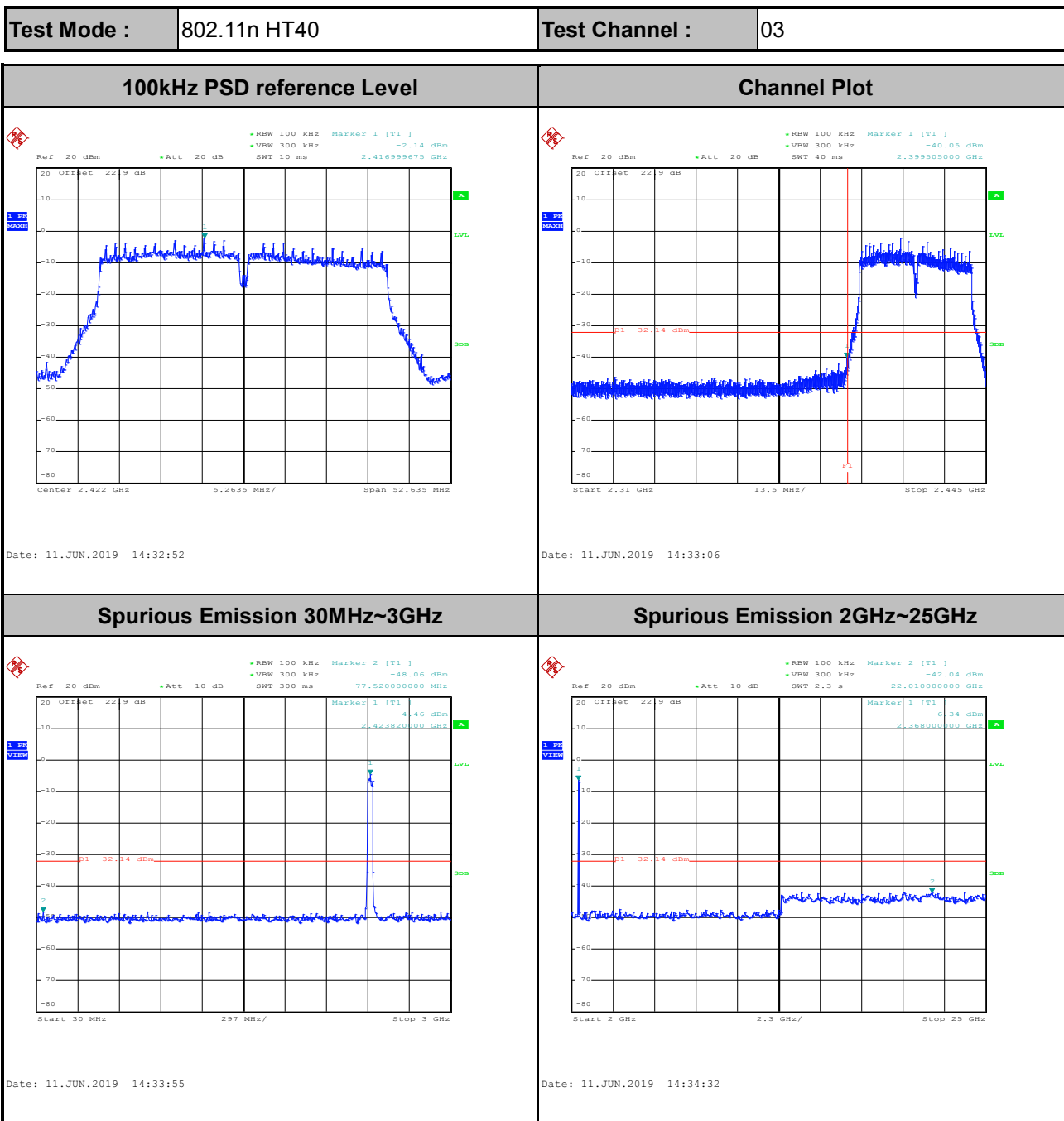
Test Mode :	802.11n HT20	Test Channel :	06
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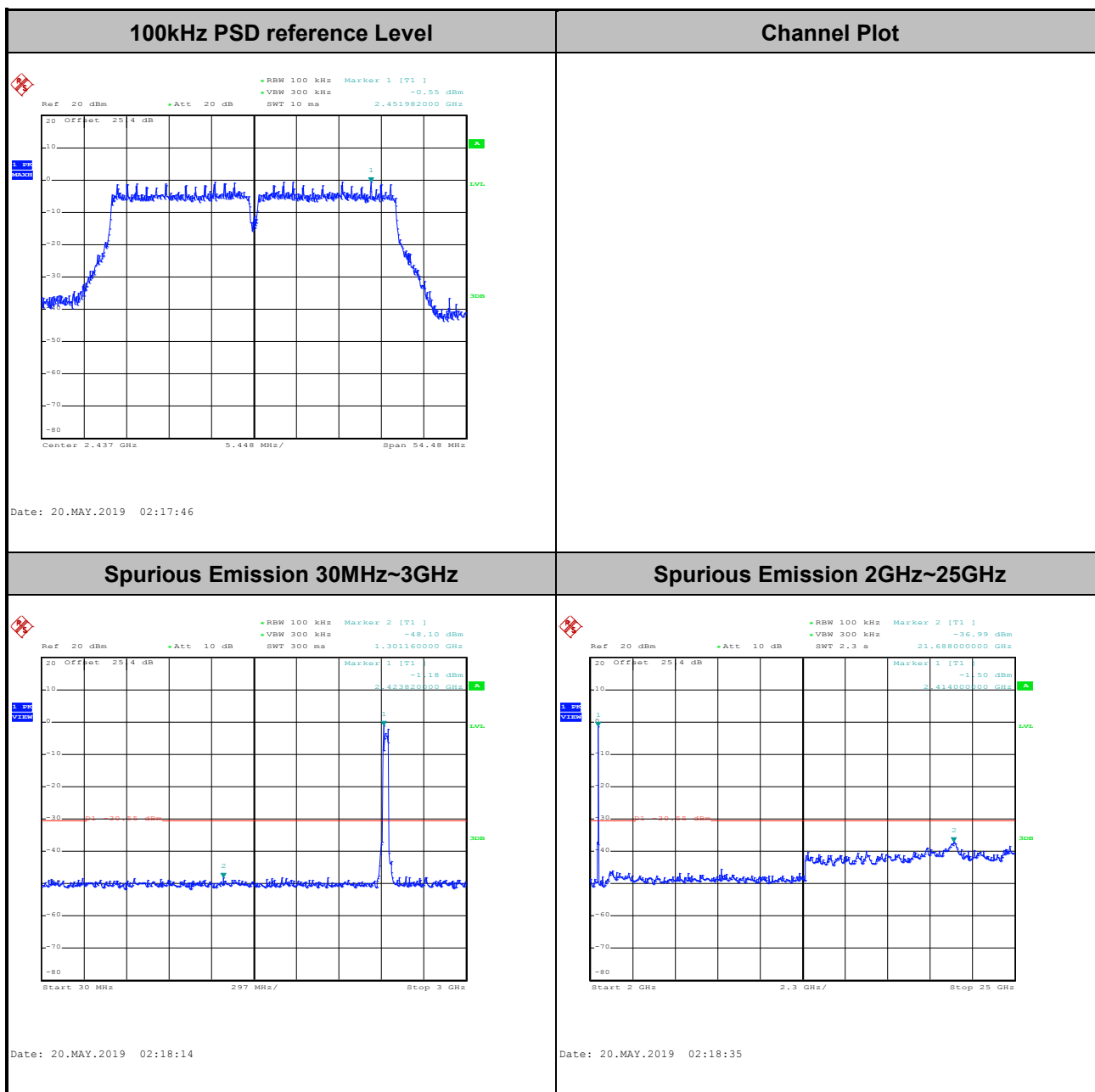
Test Mode :	802.11n HT20	Test Channel :	11
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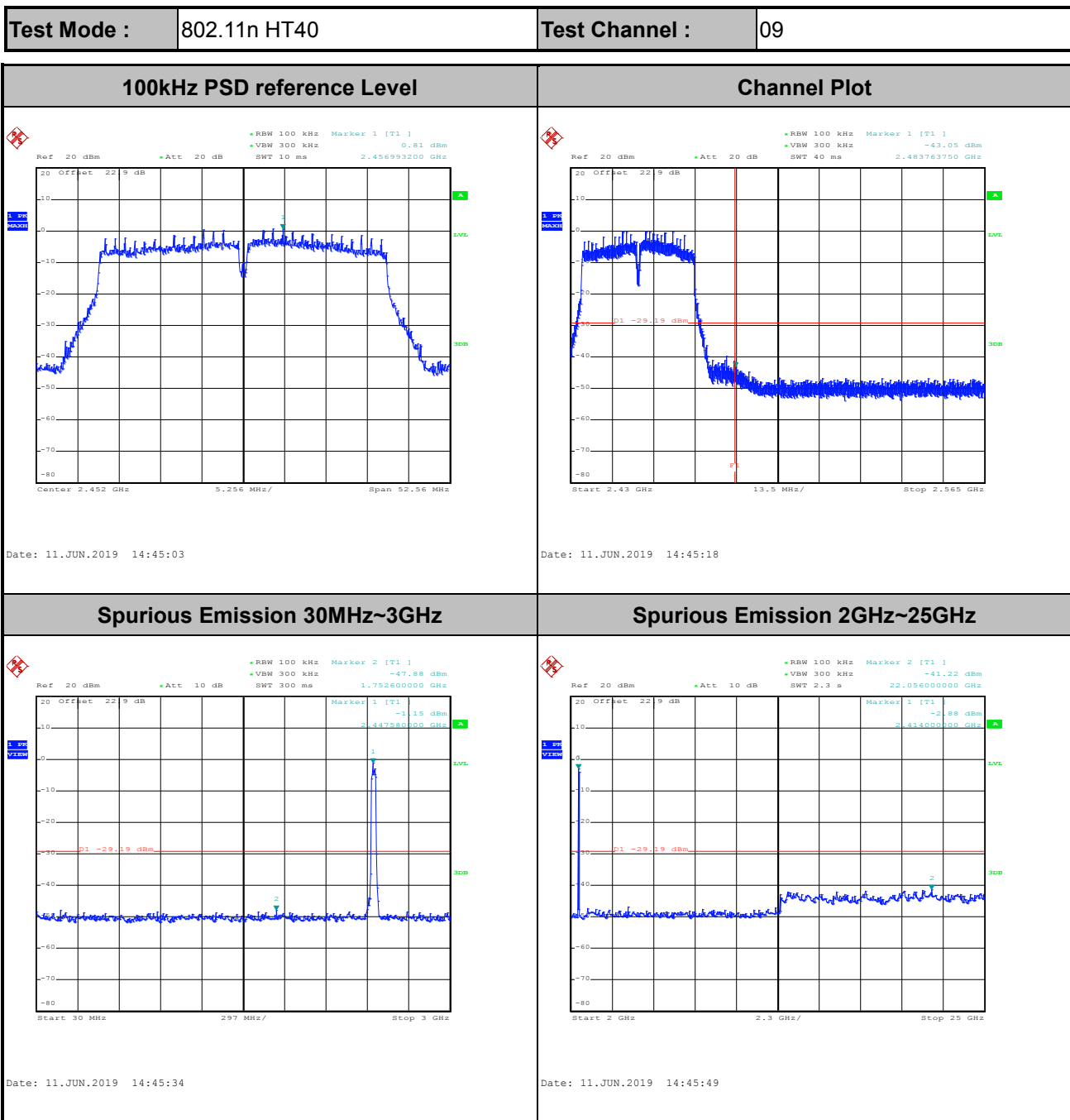






Test Mode :	802.11n HT40	Test Channel :	06
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3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

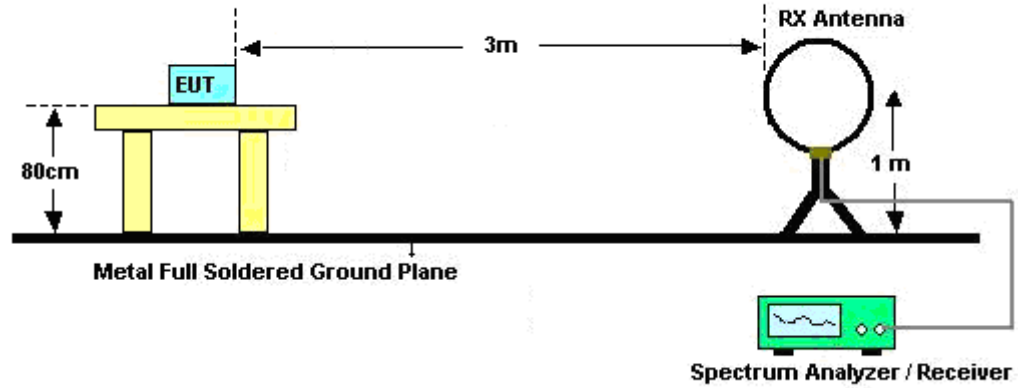
See list of measuring equipment of this test report.

3.5.3 Test Procedures

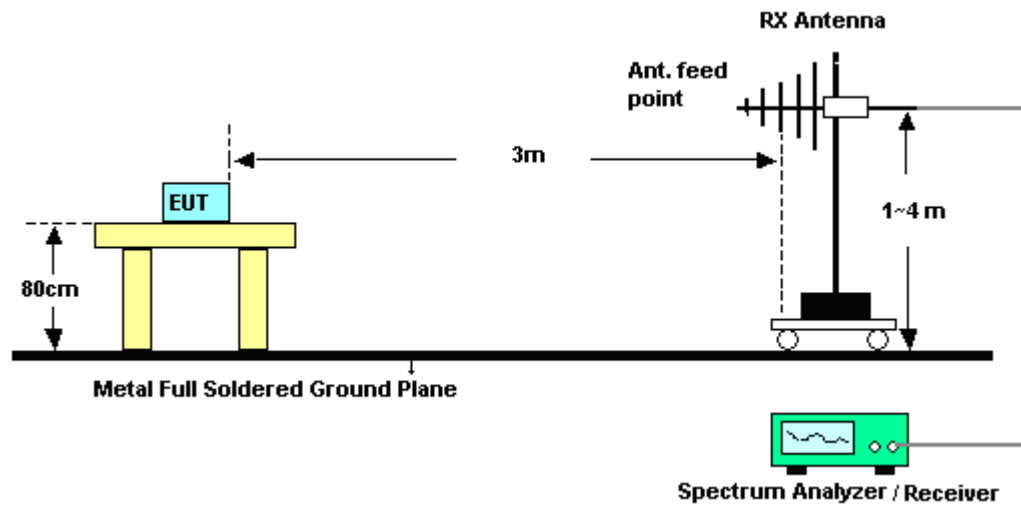
1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the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

3.5.4 Test Setup

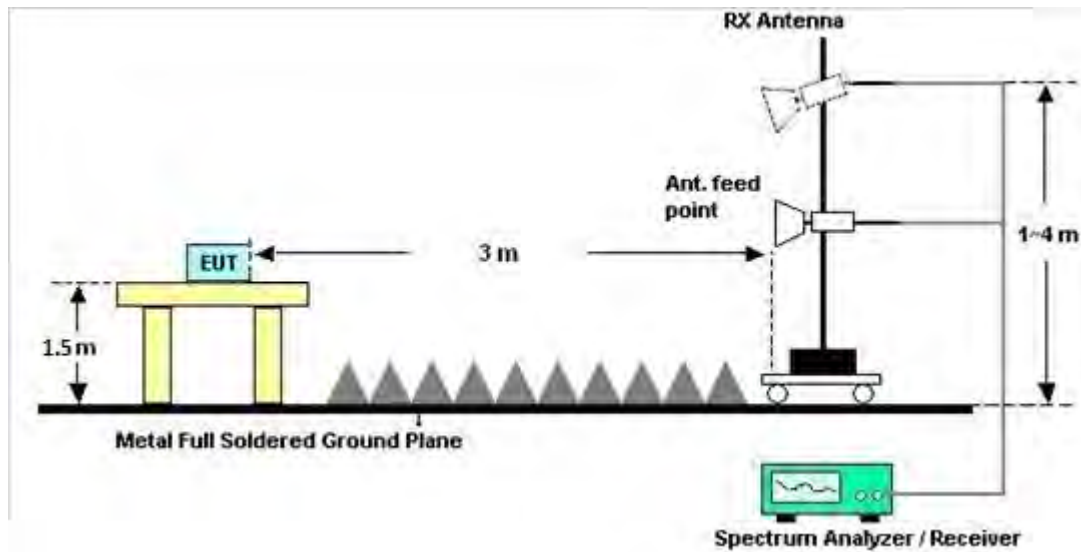
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

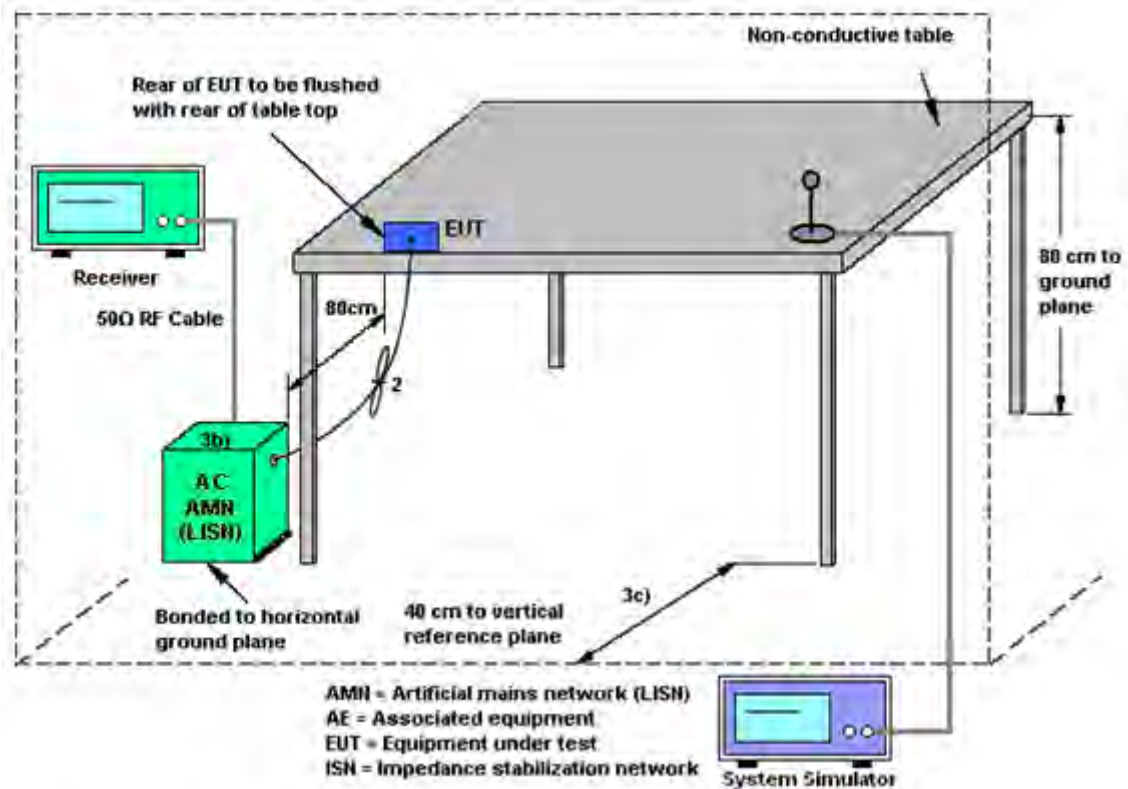
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<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 Mode	EUT Mode	Antenna Information				MMIO Gain		Max Value	
		Ant. 0 (dBi)	Ant. 1 (dBi)	Ant. 2 (dBi)	Ant. 3 (dBi)	DG for Power	DG for PSD	DG for Power	DG for PSD
2.4G	Calling	-1.87	-	-	-2	-1.87	1.08	-1.87	1.08
	Camera	-	-	-2.5	-2	-2	0.76		
	Gaming	-1.87	-	-2.5	-	-1.87	0.83		
	Normal	-1.87	-	-2.5	-	-1.87	0.83		

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

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

Remark: Use the max value composite gain in this report.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 16, 2018	May 22, 2019~ Jun. 07, 2019	Jul. 15, 2019	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Dec. 04, 2018	May 22, 2019~ Jun. 07, 2019	Dec. 03, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-0 6	35414&AT- N0602	30MHz~1GHz	Oct. 13, 2018	May 22, 2019~ Jun. 07, 2019	Oct. 12, 2019	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-132 6	1GHz ~ 18GHz	Oct. 30, 2018	May 22, 2019~ Jun. 07, 2019	Oct. 29, 2019	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 22, 2018	May 22, 2019~ Jun. 07, 2019	Nov. 21, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY532700 80	1GHz~26.5GHz	Nov. 14, 2018	May 22, 2019~ Jun. 07, 2019	Nov. 13, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 86	10Hz ~ 44GHz	Oct. 19, 2018	May 22, 2019~ Jun. 07, 2019	Oct. 18, 2019	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	May 22, 2019~ Jun. 07, 2019	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	May 22, 2019~ Jun. 07, 2019	N/A	Radiation (03CH11-HY)
Preamplifier	Jet-Power	JPA0118-55-3 03	171000180 0055007	1GHz~18GHz	Apr. 01, 2019	May 22, 2019~ Jun. 07, 2019	Mar. 31, 2020	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Dec. 05, 2018	May 22, 2019~ Jun. 07, 2019	Dec. 04, 2019	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY541300 85	N/A	Nov. 01, 2018	May 22, 2019~ Jun. 07, 2019	Oct. 31, 2019	Radiation (03CH11-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	May 22, 2019~ Jun. 07, 2019	N/A	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	9kHz-30MHz	Mar. 13, 2019	May 22, 2019~ Jun. 07, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2859/2	30MHz-40GHz	Mar. 13, 2019	May 22, 2019~ Jun. 07, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY9837/4 PE	30M-18G	Mar. 13, 2019	May 22, 2019~ Jun. 07, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY4274/2	30MHz-40GHz	Mar. 13, 2019	May 22, 2019~ Jun. 07, 2019	Mar. 12, 2020	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1 530-8000-40S S	SN11	1G Low Pass	Sep. 16, 2018	May 22, 2019~ Jun. 07, 2019	Sep. 17, 2019	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-270 0-3000-18000 -60SS	SN3	2.7G High Pass	Sep. 17, 2018	May 22, 2019~ Jun. 07, 2019	Sep. 16, 2019	Radiation (03CH11-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Sensor	DARE	RPR3006W	13I00030S NO32	9kHz~6GHz	Dec. 03, 2018	May 14, 2019~ Jun. 12, 2019	Dec. 02, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz~40GHz	Nov. 21, 2018	May 14, 2019~ Jun. 12, 2019	Nov. 20, 2019	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV 30	100895	9kHz~30GHz	Apr. 24, 2019	May 14, 2019~ Jun. 12, 2019	Apr. 23, 2020	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC120838 2	N/A	Mar. 27, 2019	May 14, 2019~ Jun. 12, 2019	Mar. 26, 2020	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 14, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Nov. 12, 2018	Jun. 14, 2019	Nov. 11, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Jun. 14, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Jun. 14, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 14, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Jun. 14, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Jun. 14, 2019	Dec. 30, 2019	Conduction (CO05-HY)



5 Uncertainty of Evaluation

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.2
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Rebecca Li/CreedWu	Temperature:	21~25	°C
Test Date:	2019/5/14~06/12	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Chain 0	Chain 1	Chain 0	Chain 1		
11b	1Mbps	1	1	2412	13.50	13.80	8.06	8.56	0.50	Pass
11b	1Mbps	1	6	2437	13.90	13.90	8.56	8.56	0.50	Pass
11b	1Mbps	1	11	2462	13.70	13.90	8.08	8.59	0.50	Pass
11g	6Mbps	1	1	2412	16.75	16.90	15.70	15.14	0.50	Pass
11g	6Mbps	1	6	2437	16.95	16.90	15.72	15.96	0.50	Pass
11g	6Mbps	1	11	2462	16.80	16.65	15.68	15.14	0.50	Pass
HT20	MCS0	1	1	2412	17.80	17.95	15.96	15.08	0.50	Pass
HT20	MCS0	1	6	2437	18.15	18.00	15.96	16.56	0.50	Pass
HT20	MCS0	1	11	2462	17.85	17.85	16.32	15.95	0.50	Pass
HT40	MCS0	1	3	2422	36.50	36.40	35.71	35.34	0.50	Pass
HT40	MCS0	1	6	2437	37.00	36.90	35.96	36.32	0.50	Pass
HT40	MCS0	1	9	2452	36.20	36.40	35.04	35.12	0.50	Pass
11b	1Mbps	2	1	2412	13.55	13.75	8.52	8.56	0.50	Pass
11b	1Mbps	2	6	2437	14.00	14.00	8.52	9.01	0.50	Pass
11b	1Mbps	2	11	2462	13.60	13.65	8.04	8.52	0.50	Pass
11g	6Mbps	2	1	2412	16.60	16.55	15.44	15.12	0.50	Pass
11g	6Mbps	2	6	2437	16.90	16.70	15.68	15.48	0.50	Pass
11g	6Mbps	2	11	2462	16.65	16.60	15.46	15.36	0.50	Pass
HT20	MCS0	2	1	2412	17.80	17.75	15.93	15.94	0.50	Pass
HT20	MCS0	2	6	2437	18.10	18.00	16.32	17.28	0.50	Pass
HT20	MCS0	2	11	2462	17.90	17.85	16.12	15.39	0.50	Pass
HT40	MCS0	2	3	2422	36.60	36.40	35.68	35.09	0.50	Pass
HT40	MCS0	2	6	2437	36.80	36.90	36.28	36.32	0.50	Pass
HT40	MCS0	2	9	2452	36.20	36.40	34.96	35.04	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Chain 0	Chain 1	SUM	Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1	Chain 0	Chain 1	
11b	1Mbps	1	1	2412	17.80	17.80	-	30.00	30.00	-1.87	-2.00	15.93	15.80	36.00	36.00	Pass
11b	1Mbps	1	6	2437	17.60	17.90		30.00	30.00	-1.87	-2.00	15.73	15.90	36.00	36.00	Pass
11b	1Mbps	1	11	2462	17.70	17.70		30.00	30.00	-1.87	-2.00	15.83	15.70	36.00	36.00	Pass
11g	6Mbps	1	1	2412	17.80	17.40		30.00	30.00	-1.87	-2.00	15.93	15.40	36.00	36.00	Pass
11g	6Mbps	1	6	2437	17.70	17.60		30.00	30.00	-1.87	-2.00	15.83	15.60	36.00	36.00	Pass
11g	6Mbps	1	11	2462	17.60	16.20		30.00	30.00	-1.87	-2.00	15.73	14.20	36.00	36.00	Pass
HT20	MCS0	1	1	2412	17.20	17.00		30.00	30.00	-1.87	-2.00	15.33	15.00	36.00	36.00	Pass
HT20	MCS0	1	6	2437	17.60	17.70		30.00	30.00	-1.87	-2.00	15.73	15.70	36.00	36.00	Pass
HT20	MCS0	1	11	2462	17.60	15.80		30.00	30.00	-1.87	-2.00	15.73	13.80	36.00	36.00	Pass
HT40	MCS0	1	3	2422	12.00	13.20		30.00	30.00	-1.87	-2.00	10.13	11.20	36.00	36.00	Pass
HT40	MCS0	1	6	2437	15.60	15.40		30.00	30.00	-1.87	-2.00	13.73	13.40	36.00	36.00	Pass
HT40	MCS0	1	9	2452	14.70	13.70		30.00	30.00	-1.87	-2.00	12.83	11.70	36.00	36.00	Pass
VHT20	MCS0	1	1	2412	17.10	16.90		30.00	30.00	-1.87	-2.00	15.23	14.90	36.00	36.00	Pass
VHT20	MCS0	1	6	2437	17.50	17.60		30.00	30.00	-1.87	-2.00	15.63	15.60	36.00	36.00	Pass
VHT20	MCS0	1	11	2462	17.50	15.70		30.00	30.00	-1.87	-2.00	15.63	13.70	36.00	36.00	Pass
VHT40	MCS0	1	3	2422	11.90	13.10		30.00	30.00	-1.87	-2.00	10.03	11.10	36.00	36.00	Pass
VHT40	MCS0	1	6	2437	15.50	15.30		30.00	30.00	-1.87	-2.00	13.63	13.30	36.00	36.00	Pass
VHT40	MCS0	1	9	2452	14.60	13.60		30.00	30.00	-1.87	-2.00	12.73	11.60	36.00	36.00	Pass
11b	1Mbps	2	1	2412	14.90	14.40	17.67	30.00		-1.87		15.80		36.00		Pass
11b	1Mbps	2	6	2437	12.30	11.70	15.02	30.00		-1.87		13.15		36.00		Pass
11b	1Mbps	2	11	2462	14.40	13.60	17.03	30.00		-1.87		15.16		36.00		Pass
11g	6Mbps	2	1	2412	14.80	14.20	17.52	30.00		-1.87		15.65		36.00		Pass
11g	6Mbps	2	6	2437	14.90	14.20	17.57	30.00		-1.87		15.70		36.00		Pass
11g	6Mbps	2	11	2462	14.70	14.10	17.42	30.00		-1.87		15.55		36.00		Pass
HT20	MCS0	2	1	2412	14.90	14.50	17.71	30.00		-1.87		15.84		36.00		Pass
HT20	MCS0	2	6	2437	14.90	14.70	17.81	30.00		-1.87		15.94		36.00		Pass
HT20	MCS0	2	11	2462	14.90	14.60	17.76	30.00		-1.87		15.89		36.00		Pass
HT40	MCS0	2	3	2422	10.90	10.10	13.53	30.00		-1.87		11.66		36.00		Pass
HT40	MCS0	2	6	2437	14.90	14.20	17.57	30.00		-1.87		15.70		36.00		Pass
HT40	MCS0	2	9	2452	14.30	13.70	17.02	30.00		-1.87		15.15		36.00		Pass
VHT20	MCS0	2	1	2412	14.80	14.50	17.66	30.00		-1.87		15.79		36.00		Pass
VHT20	MCS0	2	6	2437	14.80	14.70	17.76	30.00		-1.87		15.89		36.00		Pass
VHT20	MCS0	2	11	2462	14.80	14.60	17.71	30.00		-1.87		15.84		36.00		Pass
VHT40	MCS0	2	3	2422	10.80	10.00	13.43	30.00		-1.87		11.56		36.00		Pass
VHT40	MCS0	2	6	2437	14.80	14.20	17.52	30.00		-1.87		15.65		36.00		Pass
VHT40	MCS0	2	9	2452	14.20	13.60	16.92	30.00		-1.87		15.05		36.00		Pass

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Chain 0	Chain 1	Worse + 3.01	Chain 0	Chain 1	Chain 0	Chain 1	
11b	1Mbps	1	1	2412	-5.17	-4.96	-	-1.87	-2.00	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-4.78	-4.87	-	-1.87	-2.00	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-4.87	-4.71	-	-1.87	-2.00	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-6.56	-7.26	-	-1.87	-2.00	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-6.02	-8.63	-	-1.87	-2.00	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-5.90	-10.06	-	-1.87	-2.00	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-9.21	-9.16	-	-1.87	-2.00	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-9.86	-8.52	-	-1.87	-2.00	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-9.34	-11.63	-	-1.87	-2.00	8.00	8.00	Pass
HT40	MCS0	1	3	2422	-16.75	-14.74	-	-1.87	-2.00	8.00	8.00	Pass
HT40	MCS0	1	6	2437	-11.58	-13.07	-	-1.87	-2.00	8.00	8.00	Pass
HT40	MCS0	1	9	2452	-13.82	-14.12	-	-1.87	-2.00	8.00	8.00	Pass
11b	1Mbps	2	1	2412	-6.00	-7.01	-2.99	1.08		8.00		Pass
11b	1Mbps	2	6	2437	-9.56	-10.68	-6.55	1.08		8.00		Pass
11b	1Mbps	2	11	2462	-8.18	-8.49	-5.17	1.08		8.00		Pass
11g	6Mbps	2	1	2412	-12.24	-12.12	-9.11	1.08		8.00		Pass
11g	6Mbps	2	6	2437	-12.36	-13.72	-9.35	1.08		8.00		Pass
11g	6Mbps	2	11	2462	-12.08	-12.95	-9.07	1.08		8.00		Pass
HT20	MCS0	2	1	2412	-11.49	-10.92	-7.91	1.08		8.00		Pass
HT20	MCS0	2	6	2437	-10.19	-11.48	-7.18	1.08		8.00		Pass
HT20	MCS0	2	11	2462	-11.06	-9.42	-6.41	1.08		8.00		Pass
HT40	MCS0	2	3	2422	-17.23	-18.07	-14.22	1.08		8.00		Pass
HT40	MCS0	2	6	2437	-12.38	-15.70	-9.37	1.08		8.00		Pass
HT40	MCS0	2	9	2452	-12.92	-13.55	-9.91	1.08		8.00		Pass

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



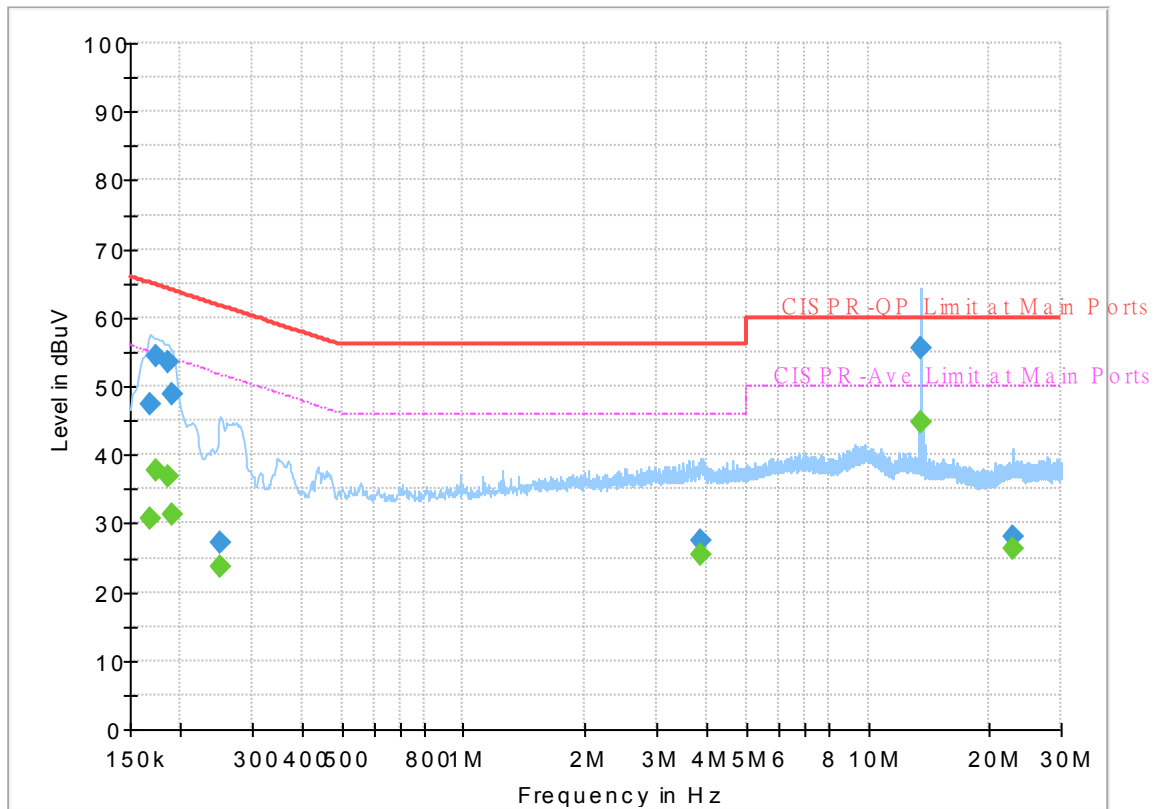
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jimmy Chang	Temperature :	22.7~23.4℃
		Relative Humidity :	52~53%

EUT Information

Report NO : 931316
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



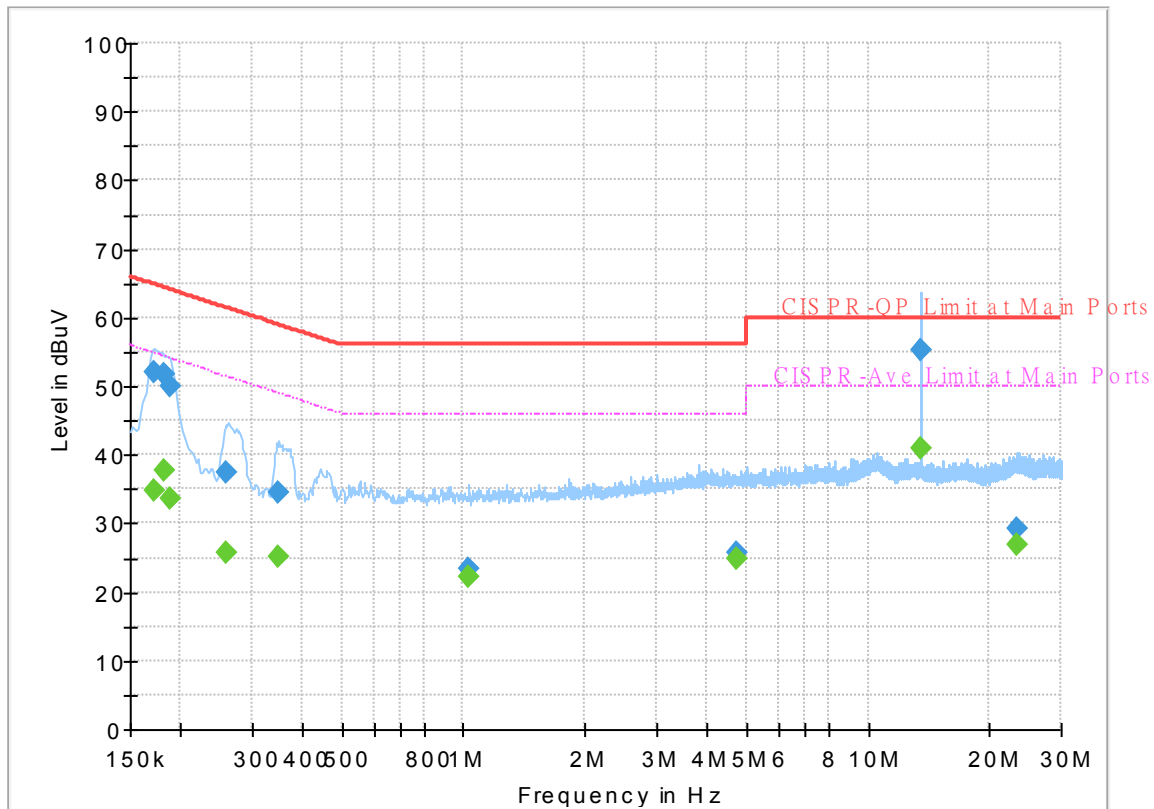
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.168000	---	30.79	55.06	24.27	L1	OFF	19.5
0.168000	47.35	---	65.06	17.71	L1	OFF	19.5
0.174750	---	37.60	54.73	17.13	L1	OFF	19.5
0.174750	54.27	---	64.73	10.46	L1	OFF	19.5
0.186000	---	36.97	54.21	17.24	L1	OFF	19.5
0.186000	53.55	---	64.21	10.66	L1	OFF	19.5
0.190500	---	31.31	54.02	22.71	L1	OFF	19.5
0.190500	48.85	---	64.02	15.17	L1	OFF	19.5
0.251250	---	23.64	51.72	28.08	L1	OFF	19.5
0.251250	27.22	---	61.72	34.50	L1	OFF	19.5
3.867000	---	25.36	46.00	20.64	L1	OFF	19.7
3.867000	27.60	---	56.00	28.40	L1	OFF	19.7
13.560000	---	44.63	50.00	5.37	L1	OFF	20.0
13.560000	55.51	---	60.00	4.49	L1	OFF	20.0
22.749000	---	26.35	50.00	23.65	L1	OFF	20.3
22.749000	28.02	---	60.00	31.98	L1	OFF	20.3

EUT Information

Report NO : 931316
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.172500	---	34.94	54.84	19.90	N	OFF	19.5
0.172500	52.02	---	64.84	12.82	N	OFF	19.5
0.181500	---	37.69	54.42	16.73	N	OFF	19.5
0.181500	51.68	---	64.42	12.74	N	OFF	19.5
0.188250	---	33.71	54.11	20.40	N	OFF	19.5
0.188250	50.02	---	64.11	14.09	N	OFF	19.5
0.258000	---	25.72	51.50	25.78	N	OFF	19.5
0.258000	37.53	---	61.50	23.97	N	OFF	19.5
0.350250	---	25.10	48.96	23.86	N	OFF	19.5
0.350250	34.43	---	58.96	24.53	N	OFF	19.5
1.029750	---	22.33	46.00	23.67	N	OFF	19.6
1.029750	23.28	---	56.00	32.72	N	OFF	19.6
4.710750	---	24.79	46.00	21.21	N	OFF	19.7
4.710750	25.74	---	56.00	30.26	N	OFF	19.7
13.560000	---	40.99	50.00	9.01	N	OFF	20.1
13.560000	55.16	---	60.00	4.84	N	OFF	20.1
23.460000	---	27.04	50.00	22.96	N	OFF	20.4
23.460000	29.26	---	60.00	30.74	N	OFF	20.4



Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, FU Chen, Ken Wu, Troye Hsieh	Temperature :	23.2~24.2°C
		Relative Humidity :	53~60%

<Camera Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2331.735	53.69	-20.31	74	43.1	27.67	16.57	33.65	312	69	P	H
		2387.175	42.26	-11.74	54	31.8	27.45	16.64	33.63	312	69	A	H
	*	2412	105.1	-	-	94.68	27.38	16.66	33.62	312	69	P	H
	*	2412	101.89	-	-	91.47	27.38	16.66	33.62	312	69	A	H
		2337.3	52.71	-21.29	74	42.13	27.65	16.58	33.65	308	343	P	V
		2320.08	41.51	-12.49	54	30.88	27.72	16.56	33.65	308	343	A	V
	*	2412	99.59	-	-	89.17	27.38	16.66	33.62	308	343	P	V
	*	2412	96.14	-	-	85.72	27.38	16.66	33.62	308	343	A	V
802.11b CH 06 2437MHz		2365.68	53.19	-20.81	74	42.68	27.54	16.61	33.64	308	70	P	H
		2390	41.82	-12.18	54	31.37	27.44	16.64	33.63	308	70	A	H
	*	2437	106.2	-	-	95.79	27.33	16.69	33.61	308	70	P	H
	*	2437	102.47	-	-	92.06	27.33	16.69	33.61	308	70	A	H
		2485.52	52.63	-21.37	74	42.19	27.3	16.74	33.6	308	70	P	H
		2483.84	42.03	-11.97	54	31.59	27.3	16.74	33.6	308	70	A	H
		2353.36	52.76	-21.24	74	42.21	27.59	16.6	33.64	100	343	P	V
		2318.32	41.51	-12.49	54	30.88	27.73	16.56	33.66	100	343	A	V
	*	2437	100.63	-	-	90.23	27.32	16.69	33.61	100	343	P	V
	*	2437	97.68	-	-	87.28	27.32	16.69	33.61	100	343	A	V
		2495.52	51.66	-22.34	74	41.2	27.3	16.75	33.59	100	343	P	V
		2483.76	41.56	-12.44	54	31.12	27.3	16.74	33.6	100	343	A	V



WIFI Ant. 3	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 11 2462MHz	*	2462	106.75	-	-	96.33	27.3	16.72	33.6	296	70	P	H
	*	2462	103.79	-	-	93.37	27.3	16.72	33.6	296	70	A	H
		2491.64	52.89	-21.11	74	42.43	27.3	16.75	33.59	296	70	P	H
		2487.16	42.48	-11.52	54	32.03	27.3	16.74	33.59	296	70	A	H
	*	2462	101.06	-	-	90.64	27.3	16.72	33.6	100	344	P	V
	*	2462	98	-	-	87.58	27.3	16.72	33.6	100	344	A	V
		2486.44	52.86	-21.14	74	42.41	27.3	16.74	33.59	100	344	P	V
		2484.08	41.71	-12.29	54	31.27	27.3	16.74	33.6	100	344	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	38.06	-35.94	74	55.1	31.1	11.02	59.16	100	0	P	H
		4824	38.71	-35.29	74	55.75	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	38.59	-35.41	74	55.65	31.05	11.06	59.17	100	0	P	H
		7311	41.58	-32.42	74	50.58	36.52	13.66	59.18	100	0	P	H
		4874	39.05	-34.95	74	56.11	31.05	11.06	59.17	100	0	P	V
		7311	41.94	-32.06	74	50.94	36.52	13.66	59.18	100	0	P	V
802.11b CH 11 2462MHz		4924	38.77	-35.23	74	55.72	31.14	11.09	59.18	100	0	P	H
		7386	40.44	-33.56	74	49.55	36.46	13.58	59.15	100	0	P	H
		4924	38.35	-35.65	74	55.3	31.14	11.09	59.18	100	0	P	V
		7386	40.33	-33.67	74	49.44	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.695	58.35	-15.65	74	47.9	27.44	16.64	33.63	316	69	P	H
		2390	47.02	-6.98	54	36.57	27.44	16.64	33.63	316	69	A	H
	*	2412	106.63	-	-	96.21	27.38	16.66	33.62	316	69	P	H
	*	2412	98.94	-	-	88.52	27.38	16.66	33.62	316	69	A	H
		2389.59	52.57	-21.43	74	42.12	27.44	16.64	33.63	100	343	P	V
		2390	43.44	-10.56	54	32.99	27.44	16.64	33.63	100	343	A	V
	*	2412	101.68	-	-	91.26	27.38	16.66	33.62	100	343	P	V
	*	2410	93.26	-	-	82.84	27.38	16.66	33.62	100	343	A	V
802.11g CH 06 2437MHz		2345.36	52.82	-21.18	74	42.26	27.62	16.59	33.65	303	72	P	H
		2390	42.23	-11.77	54	31.78	27.44	16.64	33.63	303	72	A	H
	*	2437	108.02	-	-	97.61	27.33	16.69	33.61	303	72	P	H
	*	2437	100.62	-	-	90.21	27.33	16.69	33.61	303	72	A	H
		2483.52	52.21	-21.79	74	41.77	27.3	16.74	33.6	303	72	P	H
		2483.6	42.6	-11.4	54	32.16	27.3	16.74	33.6	303	72	A	H
		2322.8	52.28	-21.72	74	41.66	27.71	16.56	33.65	100	343	P	V
		2388.56	41.51	-12.49	54	31.05	27.45	16.64	33.63	100	343	A	V
	*	2437	102.96	-	-	92.55	27.33	16.69	33.61	100	343	P	V
	*	2437	95.13	-	-	84.72	27.33	16.69	33.61	100	343	A	V
		2491.84	52.61	-21.39	74	42.15	27.3	16.75	33.59	100	343	P	V
		2483.6	41.77	-12.23	54	31.33	27.3	16.74	33.6	100	343	A	V



WIFI Ant. 3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	108.49	-	-	98.07	27.3	16.72	33.6	293	69	P	H
	*	2462	100.5	-	-	90.08	27.3	16.72	33.6	293	69	A	H
		2484.44	61.08	-12.92	74	50.64	27.3	16.74	33.6	293	69	P	H
		2483.52	48.31	-5.69	54	37.87	27.3	16.74	33.6	293	69	A	H
	*	2462	102.95	-	-	92.53	27.3	16.72	33.6	100	344	P	V
	*	2462	95.19	-	-	84.77	27.3	16.72	33.6	100	344	A	V
		2484.52	56.44	-17.56	74	46	27.3	16.74	33.6	100	344	P	V
		2483.52	44.71	-9.29	54	34.27	27.3	16.74	33.6	100	344	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	36.99	-37.01	74	54.03	31.1	11.02	59.16	100	0	P	H
CH 01		4824	36.42	-37.58	74	53.46	31.1	11.02	59.16	100	0	P	V
2412MHz													
802.11g		4874	37.22	-36.78	74	54.28	31.05	11.06	59.17	100	0	P	H
CH 06		7311	41.4	-32.6	74	50.4	36.52	13.66	59.18	100	0	P	H
2437MHz		4874	37.59	-36.41	74	54.65	31.05	11.06	59.17	100	0	P	V
		7311	41.01	-32.99	74	50.01	36.52	13.66	59.18	100	0	P	V
802.11g		4924	36.8	-37.2	74	53.75	31.14	11.09	59.18	100	0	P	H
CH 11		7386	40.44	-33.56	74	49.55	36.46	13.58	59.15	100	0	P	H
2462MHz		4924	37.22	-36.78	74	54.17	31.14	11.09	59.18	100	0	P	V
		7386	40.71	-33.29	74	49.82	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2390	60.71	-13.29	74	50.26	27.44	16.64	33.63	312	69	P	H
		2390	51.28	-2.72	54	40.83	27.44	16.64	33.63	312	69	A	H
	*	2412	105.65	-	-	95.23	27.38	16.66	33.62	312	69	P	H
	*	2412	98.47	-	-	88.05	27.38	16.66	33.62	312	69	A	H
		2389.38	54.57	-19.43	74	44.12	27.44	16.64	33.63	100	343	P	V
		2389.905	45.27	-8.73	54	34.82	27.44	16.64	33.63	100	343	A	V
	*	2412	100.45	-	-	90.03	27.38	16.66	33.62	100	343	P	V
	*	2412	92.87	-	-	82.45	27.38	16.66	33.62	100	343	A	V
802.11n HT20 CH 06 2437MHz		2330.64	52.56	-21.44	74	41.96	27.68	16.57	33.65	303	72	P	H
		2389.84	42.85	-11.15	54	32.4	27.44	16.64	33.63	303	72	A	H
	*	2437	108	-	-	97.59	27.33	16.69	33.61	303	72	P	H
	*	2437	100.11	-	-	89.7	27.33	16.69	33.61	303	72	A	H
		2483.76	52.66	-21.34	74	42.22	27.3	16.74	33.6	303	72	P	H
		2484.88	43.31	-10.69	54	32.87	27.3	16.74	33.6	303	72	A	H
		2342.8	52.15	-21.85	74	41.59	27.63	16.58	33.65	100	343	P	V
		2384.4	42.36	-11.64	54	31.9	27.46	16.63	33.63	100	343	A	V
	*	2437	102.63	-	-	92.22	27.33	16.69	33.61	100	343	P	V
	*	2437	94.54	-	-	84.13	27.33	16.69	33.61	100	343	A	V
		2484.16	51.88	-22.12	74	41.44	27.3	16.74	33.6	100	343	P	V
		2485.44	42.55	-11.45	54	32.11	27.3	16.74	33.6	100	343	A	V



WIFI Ant. 3	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 11 2462MHz	*	2462	108.15	-	-	97.73	27.3	16.72	33.6	296	68	P	H
	*	2462	100.51	-	-	90.09	27.3	16.72	33.6	296	68	A	H
		2483.68	61.03	-12.97	74	50.59	27.3	16.74	33.6	296	68	P	H
		2483.52	50.97	-3.03	54	40.53	27.3	16.74	33.6	296	68	A	H
	*	2462	102.27	-	-	91.85	27.3	16.72	33.6	100	344	P	V
	*	2462	94.75	-	-	84.33	27.3	16.72	33.6	100	344	A	V
		2483.52	57.35	-16.65	74	46.91	27.3	16.74	33.6	100	344	P	V
		2483.52	46.73	-7.27	54	36.29	27.3	16.74	33.6	100	344	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	37.16	-36.84	74	54.2	31.1	11.02	59.16	100	0	P	H
		4824	37.16	-36.84	74	54.2	31.1	11.02	59.16	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	36.84	-37.16	74	53.9	31.05	11.06	59.17	100	0	P	H
		7311	41.37	-32.63	74	50.37	36.52	13.66	59.18	100	0	P	H
		4874	38.06	-35.94	74	55.12	31.05	11.06	59.17	100	0	P	V
		7311	40.67	-33.33	74	49.67	36.52	13.66	59.18	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	36.67	-37.33	74	53.62	31.14	11.09	59.18	100	0	P	H
		7386	41.47	-32.53	74	50.58	36.46	13.58	59.15	100	0	P	H
		4924	36.66	-37.34	74	53.61	31.14	11.09	59.18	100	0	P	V
		7386	40.17	-33.83	74	49.28	36.46	13.58	59.15	100	0	P	V
Remark - No other spurious found. - All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2387.76	60.28	-13.72	74	49.82	27.45	16.64	33.63	311	67	P	H
		2389.68	51.67	-2.33	54	41.22	27.44	16.64	33.63	311	67	A	H
	*	2422	99.97	-	-	89.56	27.36	16.67	33.62	311	67	P	H
	*	2422	90.48	-	-	80.07	27.36	16.67	33.62	311	67	A	H
		2489.6	52.97	-21.03	74	42.52	27.3	16.74	33.59	311	67	P	H
		2484.64	43.54	-10.46	54	33.1	27.3	16.74	33.6	311	67	A	H
		2389.36	54.28	-19.72	74	43.83	27.44	16.64	33.63	107	343	P	V
		2389.36	45.67	-8.33	54	35.22	27.44	16.64	33.63	107	343	A	V
	*	2422	94.61	-	-	84.2	27.36	16.67	33.62	107	343	P	V
	*	2422	86.55	-	-	76.14	27.36	16.67	33.62	107	343	A	V
		2487.2	52.57	-21.43	74	42.12	27.3	16.74	33.59	107	343	P	V
		2493.04	43.39	-10.61	54	32.93	27.3	16.75	33.59	107	343	A	V
802.11n HT40 CH 06 2437MHz		2389.04	62.13	-11.87	74	51.68	27.44	16.64	33.63	303	68	P	H
		2390	51.65	-2.35	54	41.2	27.44	16.64	33.63	303	68	A	H
	*	2437	105.2	-	-	94.79	27.33	16.69	33.61	303	68	P	H
	*	2437	97.49	-	-	87.08	27.33	16.69	33.61	303	68	A	H
		2483.68	60.58	-13.42	74	50.14	27.3	16.74	33.6	303	68	P	H
		2483.76	50.96	-3.04	54	40.52	27.3	16.74	33.6	303	68	A	H
		2390	55.13	-18.87	74	44.68	27.44	16.64	33.63	100	344	P	V
		2390	45.58	-8.42	54	35.13	27.44	16.64	33.63	100	344	A	V
	*	2437	99.27	-	-	88.86	27.33	16.69	33.61	100	344	P	V
	*	2437	91.46	-	-	81.05	27.33	16.69	33.61	100	344	A	V
		2483.6	57.52	-16.48	74	47.08	27.3	16.74	33.6	100	344	P	V
		2483.6	46.99	-7.01	54	36.55	27.3	16.74	33.6	100	344	A	V



WIFI Ant. 3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2328.24	53.83	-20.17	74	43.22	27.69	16.57	33.65	295	72	P	H
		2367.28	43.66	-10.34	54	33.16	27.53	16.61	33.64	295	72	A	H
	*	2452	101.83	-	-	91.44	27.3	16.7	33.61	295	72	P	H
	*	2452	94.21	-	-	83.82	27.3	16.7	33.61	295	72	A	H
		2483.84	59.37	-14.63	74	48.93	27.3	16.74	33.6	295	72	P	H
		2483.52	51.24	-2.76	54	40.8	27.3	16.74	33.6	295	72	A	H
		2324.4	53.5	-20.5	74	42.89	27.7	16.56	33.65	105	97	P	V
		2385.04	43.34	-10.66	54	32.88	27.46	16.63	33.63	105	97	A	V
	*	2452	99.72	-	-	89.33	27.3	16.7	33.61	105	97	P	V
	*	2452	91.47	-	-	81.08	27.3	16.7	33.61	105	97	A	V
		2485.2	56.16	-17.84	74	45.72	27.3	16.74	33.6	105	97	P	V
		2483.6	48.4	-5.6	54	37.96	27.3	16.74	33.6	105	97	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4844	37.04	-36.96	74	54.08	31.1	11.03	59.17	100	0	P	H
HT40		7266	41.82	-32.18	74	50.85	36.43	13.73	59.19	100	0	P	H
CH 03		4844	37.52	-36.48	74	54.56	31.1	11.03	59.17	100	0	P	V
2422MHz		7266	41.07	-32.93	74	50.1	36.43	13.73	59.19	100	0	P	V
802.11n		4874	36.79	-37.21	74	53.85	31.05	11.06	59.17	100	0	P	H
HT40		7311	41.22	-32.78	74	50.22	36.52	13.66	59.18	100	0	P	H
CH 06		4874	38.18	-35.82	74	55.24	31.05	11.06	59.17	100	0	P	V
2437MHz		7311	40.52	-33.48	74	49.52	36.52	13.66	59.18	100	0	P	V
802.11n		4904	38.1	-35.9	74	55.19	31.02	11.07	59.18	100	0	P	H
HT40		7356	41.77	-32.23	74	50.74	36.58	13.61	59.16	100	0	P	H
CH 09		4904	37.6	-36.4	74	54.69	31.02	11.07	59.18	100	0	P	V
2452MHz		7356	41.16	-32.84	74	50.13	36.58	13.61	59.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		98.31	37.41	-6.09	43.5	52.91	15.49	1.33	32.32	100	0	P	H
		154.47	32.88	-10.62	43.5	46.84	16.62	1.7	32.28	-	-	P	H
		162.03	32.64	-10.86	43.5	47.01	16.14	1.76	32.27	-	-	P	H
		867	32	-14	46	30.14	29.27	4.11	31.52	-	-	P	H
		951.7	34.87	-11.13	46	30.78	30.65	4.31	30.87	-	-	P	H
		963.6	35.15	-18.85	54	30.57	30.99	4.35	30.76	-	-	P	H
		53.49	31.31	-8.69	40	50.08	12.63	0.97	32.37	100	0	P	V
		91.83	32.52	-10.98	43.5	48.71	14.83	1.31	32.33	-	-	P	V
		166.35	30.8	-12.7	43.5	45.6	15.68	1.79	32.27	-	-	P	V
		897.1	31.95	-14.05	46	30.14	29	4.18	31.37	-	-	P	V
		941.9	34.25	-11.75	46	30.85	30.07	4.29	30.96	-	-	P	V
		960.8	34.36	-19.64	54	29.81	31	4.34	30.79	-	-	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		2385.285	53.1	-20.9	74	42.64	27.46	16.63	33.63	327	228	P	H
		2385.18	43.48	-10.52	54	33.02	27.46	16.63	33.63	327	228	A	H
	*	2412	106.22	-	-	95.8	27.38	16.66	33.62	327	228	P	H
	*	2412	103.07	-	-	92.65	27.38	16.66	33.62	327	228	A	H
		2389.8	53.44	-20.56	74	42.99	27.44	16.64	33.63	312	192	P	V
		2385.285	43.64	-10.36	54	33.18	27.46	16.63	33.63	312	192	A	V
	*	2412	106.76	-	-	96.34	27.38	16.66	33.62	312	192	P	V
	*	2412	103.49	-	-	93.07	27.38	16.66	33.62	312	192	A	V
802.11b CH 06 2437MHz		2368.08	51.97	-22.03	74	41.47	27.53	16.61	33.64	307	227	P	H
		2390	41.9	-12.1	54	31.45	27.44	16.64	33.63	307	227	A	H
	*	2437	106.23	-	-	95.82	27.33	16.69	33.61	307	227	P	H
	*	2437	102.94	-	-	92.53	27.33	16.69	33.61	307	227	A	H
		2485.04	52.44	-21.56	74	42	27.3	16.74	33.6	307	227	P	H
		2484.08	41.93	-12.07	54	31.49	27.3	16.74	33.6	307	227	A	H
		2375.92	52.67	-21.33	74	42.18	27.5	16.62	33.63	299	191	P	V
		2390	41.9	-12.1	54	31.45	27.44	16.64	33.63	299	191	A	V
	*	2437	106.55	-	-	96.14	27.33	16.69	33.61	299	191	P	V
	*	2437	103.28	-	-	92.87	27.33	16.69	33.61	299	191	A	V
		2485.12	53.36	-20.64	74	42.92	27.3	16.74	33.6	299	191	P	V
		2484.64	41.97	-12.03	54	31.53	27.3	16.74	33.6	299	191	A	V



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 11 2462MHz	*	2462	106.21	-	-	95.79	27.3	16.72	33.6	300	228	P	H
	*	2462	103.04	-	-	92.62	27.3	16.72	33.6	300	228	A	H
		2487.88	53.83	-20.17	74	43.38	27.3	16.74	33.59	300	228	P	H
		2487.6	45.43	-8.57	54	34.98	27.3	16.74	33.59	300	228	A	H
	*	2462	106.45	-	-	96.03	27.3	16.72	33.6	285	190	P	V
	*	2462	103.29	-	-	92.87	27.3	16.72	33.6	285	190	A	V
		2487.16	54.01	-19.99	74	43.56	27.3	16.74	33.59	285	190	P	V
		2483.52	45.42	-8.58	54	34.98	27.3	16.74	33.6	285	190	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	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		4824	38.94	-35.06	74	55.98	31.1	11.02	59.16	100	0	P	H
		4824	42.79	-31.21	74	59.83	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	38.11	-35.89	74	55.17	31.05	11.06	59.17	100	0	P	H
		7311	41.53	-32.47	74	50.53	36.52	13.66	59.18	100	0	P	H
		4874	40.78	-33.22	74	57.84	31.05	11.06	59.17	100	0	P	V
		7311	41.44	-32.56	74	50.44	36.52	13.66	59.18	100	0	P	V
802.11b CH 11 2462MHz		4924	40.75	-33.25	74	57.7	31.14	11.09	59.18	100	0	P	H
		7386	41	-33	74	50.11	36.46	13.58	59.15	100	0	P	H
		4924	45.03	-28.97	74	61.98	31.14	11.09	59.18	100	0	P	V
		7386	41.06	-32.94	74	50.17	36.46	13.58	59.15	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	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)
802.11g CH 01 2412MHz		2390	61.07	-12.93	74	50.62	27.44	16.64	33.63	375	230	P	H
		2390	50.48	-3.52	54	40.03	27.44	16.64	33.63	375	230	A	H
	*	2412	108.21	-	-	97.79	27.38	16.66	33.62	375	230	P	H
	*	2412	100.43	-	-	90.01	27.38	16.66	33.62	375	230	A	H
		2390	60.89	-13.11	74	50.44	27.44	16.64	33.63	143	221	P	V
		2390	51.25	-2.75	54	40.8	27.44	16.64	33.63	143	221	A	V
	*	2412	108.61	-	-	98.19	27.38	16.66	33.62	143	221	P	V
	*	2412	100.93	-	-	90.51	27.38	16.66	33.62	143	221	A	V
802.11g CH 06 2437MHz		2390	53.19	-20.81	74	42.74	27.44	16.64	33.63	370	229	P	H
		2390	43.22	-10.78	54	32.77	27.44	16.64	33.63	370	229	A	H
	*	2437	108	-	-	97.59	27.33	16.69	33.61	370	229	P	H
	*	2437	100.3	-	-	89.89	27.33	16.69	33.61	370	229	A	H
		2483.68	53.28	-20.72	74	42.84	27.3	16.74	33.6	370	229	P	H
		2483.68	43.02	-10.98	54	32.58	27.3	16.74	33.6	370	229	A	H
		2385.36	53.56	-20.44	74	43.1	27.46	16.63	33.63	105	219	P	V
		2390	43.43	-10.57	54	32.98	27.44	16.64	33.63	105	219	A	V
	*	2437	108.98	-	-	98.57	27.33	16.69	33.61	105	219	P	V
	*	2437	101.06	-	-	90.65	27.33	16.69	33.61	105	219	A	V
		2483.84	53.75	-20.25	74	43.31	27.3	16.74	33.6	105	219	P	V
		2483.52	43.68	-10.32	54	33.24	27.3	16.74	33.6	105	219	A	V



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 11 2462MHz	*	2462	106.6	-	-	96.18	27.3	16.72	33.6	298	228	P	H
	*	2462	99.02	-	-	88.6	27.3	16.72	33.6	298	228	A	H
		2483.8	59.99	-14.01	74	49.55	27.3	16.74	33.6	298	228	P	H
		2483.52	49.26	-4.74	54	38.82	27.3	16.74	33.6	298	228	A	H
	*	2462	107.52	-	-	97.1	27.3	16.72	33.6	100	218	P	V
	*	2462	100.09	-	-	89.67	27.3	16.72	33.6	100	218	A	V
		2483.56	60.86	-13.14	74	50.42	27.3	16.74	33.6	100	218	P	V
		2483.52	50.44	-3.56	54	40	27.3	16.74	33.6	100	218	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	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)
802.11g CH 01 2412MHz		4824	37.48	-36.52	74	54.52	31.1	11.02	59.16	100	0	P	H
		4824	41.29	-32.71	74	58.33	31.1	11.02	59.16	100	0	P	V
802.11g CH 06 2437MHz		4874	37.99	-36.01	74	55.05	31.05	11.06	59.17	100	0	P	H
		7311	40.47	-33.53	74	49.47	36.52	13.66	59.18	100	0	P	H
		4874	39.59	-34.41	74	56.65	31.05	11.06	59.17	100	0	P	V
		7311	40.6	-33.4	74	49.6	36.52	13.66	59.18	100	0	P	V
802.11g CH 11 2462MHz		4924	37.59	-36.41	74	54.54	31.14	11.09	59.18	100	0	P	H
		7386	40.24	-33.76	74	49.35	36.46	13.58	59.15	100	0	P	H
		4924	39.55	-34.45	74	56.5	31.14	11.09	59.18	100	0	P	V
		7386	40	-34	74	49.11	36.46	13.58	59.15	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	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)
802.11n HT20 CH 01 2412MHz		2388.96	59.65	-14.35	74	49.2	27.44	16.64	33.63	376	230	P	H
		2390	50.01	-3.99	54	39.56	27.44	16.64	33.63	376	230	A	H
	*	2412	107.63	-	-	97.21	27.38	16.66	33.62	376	230	P	H
	*	2412	99.58	-	-	89.16	27.38	16.66	33.62	376	230	A	H
		2389.17	61.44	-12.56	74	50.99	27.44	16.64	33.63	146	222	P	V
		2390	50.63	-3.37	54	40.18	27.44	16.64	33.63	146	222	A	V
	*	2412	107.2	-	-	96.78	27.38	16.66	33.62	146	222	P	V
	*	2412	99.87	-	-	89.45	27.38	16.66	33.62	146	222	A	V
802.11n HT20 CH 06 2437MHz		2389.52	53.33	-20.67	74	42.88	27.44	16.64	33.63	369	230	P	H
		2389.68	44.39	-9.61	54	33.94	27.44	16.64	33.63	369	230	A	H
	*	2437	108.42	-	-	98.01	27.33	16.69	33.61	369	230	P	H
	*	2437	99.94	-	-	89.53	27.33	16.69	33.61	369	230	A	H
		2485.68	53.25	-20.75	74	42.81	27.3	16.74	33.6	369	230	P	H
		2483.76	44.06	-9.94	54	33.62	27.3	16.74	33.6	369	230	A	H
		2388.08	53.15	-20.85	74	42.69	27.45	16.64	33.63	104	218	P	V
		2389.84	44.13	-9.87	54	33.68	27.44	16.64	33.63	104	218	A	V
	*	2437	107.99	-	-	97.58	27.33	16.69	33.61	104	218	P	V
	*	2437	100.69	-	-	90.28	27.33	16.69	33.61	104	218	A	V
		2483.68	54.1	-19.9	74	43.66	27.3	16.74	33.6	104	218	P	V
		2484.16	45.12	-8.88	54	34.68	27.3	16.74	33.6	104	218	A	V



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 11 2462MHz	*	2462	106.68	-	-	96.26	27.3	16.72	33.6	298	229	P	H
	*	2462	98.45	-	-	88.03	27.3	16.72	33.6	298	229	A	H
		2484.24	59.53	-14.47	74	49.09	27.3	16.74	33.6	298	229	P	H
		2483.52	49.65	-4.35	54	39.21	27.3	16.74	33.6	298	229	A	H
	*	2462	107.45	-	-	97.03	27.3	16.72	33.6	100	219	P	V
	*	2462	99.38	-	-	88.96	27.3	16.72	33.6	100	219	A	V
		2483.76	60.42	-13.58	74	49.98	27.3	16.74	33.6	100	219	P	V
		2483.52	50.63	-3.37	54	40.19	27.3	16.74	33.6	100	219	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 (Harmonic @ 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)
802.11n HT20 CH 01 2412MHz		4824	37.36	-36.64	74	54.4	31.1	11.02	59.16	100	0	P	H
		4824	39.2	-34.8	74	56.24	31.1	11.02	59.16	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	37.24	-36.76	74	54.3	31.05	11.06	59.17	100	0	P	H
		7311	40.94	-33.06	74	49.94	36.52	13.66	59.18	100	0	P	H
		4874	39.49	-34.51	74	56.55	31.05	11.06	59.17	100	0	P	V
		7311	41.23	-32.77	74	50.23	36.52	13.66	59.18	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	38.26	-35.74	74	55.21	31.14	11.09	59.18	100	0	P	H
		7386	40.94	-33.06	74	50.05	36.46	13.58	59.15	100	0	P	H
		4924	39.99	-34.01	74	56.94	31.14	11.09	59.18	100	0	P	V
		7386	40.83	-33.17	74	49.94	36.46	13.58	59.15	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 HT40 (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)
802.11n HT40 CH 03 2422MHz		2389.84	58.05	-15.95	74	47.6	27.44	16.64	33.63	330	227	P	H
		2389.84	50.04	-3.96	54	39.59	27.44	16.64	33.63	330	227	A	H
	*	2422	102.27	-	-	91.86	27.36	16.67	33.62	330	227	P	H
	*	2420	94.23	-	-	83.82	27.36	16.67	33.62	330	227	A	H
		2483.84	53.91	-20.09	74	43.47	27.3	16.74	33.6	330	227	P	H
		2484.24	43.92	-10.08	54	33.48	27.3	16.74	33.6	330	227	A	H
		2389.04	59.24	-14.76	74	48.79	27.44	16.64	33.63	113	218	P	V
		2390	51.03	-2.97	54	40.58	27.44	16.64	33.63	113	218	A	V
	*	2422	101.06	-	-	90.65	27.36	16.67	33.62	113	218	P	V
	*	2422	93.57	-	-	83.16	27.36	16.67	33.62	113	218	A	V
		2484.64	52.67	-21.33	74	42.23	27.3	16.74	33.6	113	218	P	V
		2484.72	44.14	-9.86	54	33.7	27.3	16.74	33.6	113	218	A	V
802.11n HT40 CH 06 2437MHz		2389.52	62.41	-11.59	74	51.96	27.44	16.64	33.63	109	136	P	H
		2389.68	51.82	-2.18	54	41.37	27.44	16.64	33.63	109	136	A	H
	*	2437	103.16	-	-	92.75	27.33	16.69	33.61	109	136	P	H
	*	2437	94.81	-	-	84.4	27.33	16.69	33.61	109	136	A	H
		2484.56	59.78	-14.22	74	49.34	27.3	16.74	33.6	109	136	P	H
		2483.6	49.79	-4.21	54	39.35	27.3	16.74	33.6	109	136	A	H
		2388.56	61.38	-12.62	74	50.92	27.45	16.64	33.63	103	216	P	V
		2390	51.4	-2.6	54	40.95	27.44	16.64	33.63	103	216	A	V
	*	2437	102.47	-	-	92.06	27.33	16.69	33.61	103	216	P	V
	*	2437	94.86	-	-	84.45	27.33	16.69	33.61	103	216	A	V
		2484.96	59.75	-14.25	74	49.31	27.3	16.74	33.6	103	216	P	V
		2483.52	49.98	-4.02	54	39.54	27.3	16.74	33.6	103	216	A	V



WIFI Ant. 2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2389.2	52.88	-21.12	74	42.43	27.44	16.64	33.63	106	137	P	H
		2348.4	43.57	-10.43	54	33.01	27.61	16.59	33.64	106	137	A	H
	*	2452	101.46	-	-	91.07	27.3	16.7	33.61	106	137	P	H
	*	2452	94.31	-	-	83.92	27.3	16.7	33.61	106	137	A	H
		2484.08	59.55	-14.45	74	49.11	27.3	16.74	33.6	106	137	P	H
		2483.52	50.25	-3.75	54	39.81	27.3	16.74	33.6	106	137	A	H
		2389.04	54.11	-19.89	74	43.66	27.44	16.64	33.63	100	216	P	V
		2390	43.63	-10.37	54	33.18	27.44	16.64	33.63	100	216	A	V
	*	2452	101.89	-	-	91.5	27.3	16.7	33.61	100	216	P	V
	*	2452	94.3	-	-	83.91	27.3	16.7	33.61	100	216	A	V
		2483.52	58.98	-15.02	74	48.54	27.3	16.74	33.6	100	216	P	V
		2483.52	50.29	-3.71	54	39.85	27.3	16.74	33.6	100	216	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	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)
802.11n		4844	36.92	-37.08	74	53.96	31.1	11.03	59.17	100	0	P	H
HT40		7266	42.08	-31.92	74	51.11	36.43	13.73	59.19	100	0	P	H
CH 03		4844	37.03	-36.97	74	54.07	31.1	11.03	59.17	100	0	P	V
2422MHz		7266	41.35	-32.65	74	50.38	36.43	13.73	59.19	100	0	P	V
802.11n		4874	37.31	-36.69	74	54.37	31.05	11.06	59.17	100	0	P	H
HT40		7311	40.69	-33.31	74	49.69	36.52	13.66	59.18	100	0	P	H
CH 06		4874	37.22	-36.78	74	54.28	31.05	11.06	59.17	100	0	P	V
2437MHz		7311	41	-33	74	50	36.52	13.66	59.18	100	0	P	V
802.11n		4904	37.41	-36.59	74	54.5	31.02	11.07	59.18	100	0	P	H
HT40		7356	41.18	-32.82	74	50.15	36.58	13.61	59.16	100	0	P	H
CH 09		4904	36.8	-37.2	74	53.89	31.02	11.07	59.18	100	0	P	V
2452MHz		7356	41.26	-32.74	74	50.23	36.58	13.61	59.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		93.18	36.18	-7.32	43.5	52.24	14.96	1.31	32.33	-	-	P	H
		98.31	37.26	-6.24	43.5	52.76	15.49	1.33	32.32	100	0	P	H
		155.01	32.81	-10.69	43.5	46.79	16.59	1.71	32.28	-	-	P	H
		864.9	32.07	-13.93	46	30.21	29.29	4.11	31.54	-	-	P	H
		937.7	33.41	-12.59	46	30.28	29.84	4.29	31	-	-	P	H
		956.6	34.3	-11.7	46	29.94	30.86	4.33	30.83	-	-	P	H
		53.49	32.71	-7.29	40	51.48	12.63	0.97	32.37	100	0	P	V
		91.29	32.16	-11.34	43.5	48.41	14.78	1.3	32.33	-	-	P	V
		162.84	31.76	-11.74	43.5	46.2	16.05	1.78	32.27	-	-	P	V
		888.7	31.81	-14.19	46	30.01	29.05	4.16	31.41	-	-	P	V
		941.9	34.25	-11.75	46	30.85	30.07	4.29	30.96	-	-	P	V
		986.7	34.05	-19.95	54	29.48	30.7	4.42	30.55	-	-	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.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2361.24	53.09	-20.91	74	42.56	27.56	16.61	33.64	297	61	P	H
		2386.965	41.97	-12.03	54	31.51	27.45	16.64	33.63	297	61	A	H
	*	2412	104.96	-	-	94.54	27.38	16.66	33.62	297	61	P	H
	*	2412	101.87	-	-	91.45	27.38	16.66	33.62	297	61	A	H
		2317.035	52.87	-21.13	74	42.25	27.73	16.55	33.66	388	160	P	V
		2386.86	42.35	-11.65	54	31.9	27.45	16.63	33.63	388	160	A	V
	*	2412	104.12	-	-	93.7	27.38	16.66	33.62	388	160	P	V
	*	2412	100.95	-	-	90.53	27.38	16.66	33.62	388	160	A	V
802.11b CH 06 2437MHz		2386.48	52.34	-21.66	74	41.89	27.45	16.63	33.63	303	63	P	H
		2389.84	41.85	-12.15	54	31.4	27.44	16.64	33.63	303	63	A	H
	*	2437	105.26	-	-	94.85	27.33	16.69	33.61	303	63	P	H
	*	2437	101.99	-	-	91.58	27.33	16.69	33.61	303	63	A	H
		2483.84	52.34	-21.66	74	41.9	27.3	16.74	33.6	303	63	P	H
		2484	42.05	-11.95	54	31.61	27.3	16.74	33.6	303	63	A	H
		2349.2	53.64	-20.36	74	43.09	27.6	16.59	33.64	380	160	P	V
		2387.28	41.76	-12.24	54	31.3	27.45	16.64	33.63	380	160	A	V
	*	2437	104.32	-	-	93.91	27.33	16.69	33.61	380	160	P	V
	*	2437	101.03	-	-	90.62	27.33	16.69	33.61	380	160	A	V
		2485.28	51.68	-22.32	74	41.24	27.3	16.74	33.6	380	160	P	V
		2483.84	41.86	-12.14	54	31.42	27.3	16.74	33.6	380	160	A	V



WIFI Ant. 3+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 11 2462MHz	*	2462	105.41	-	-	94.99	27.3	16.72	33.6	334	63	P	H
	*	2462	102.34	-	-	91.92	27.3	16.72	33.6	334	63	A	H
		2493.72	54.22	-19.78	74	43.76	27.3	16.75	33.59	334	63	P	H
		2486.96	42	-12	54	31.55	27.3	16.74	33.59	334	63	A	H
	*	2462	104.45	-	-	94.03	27.3	16.72	33.6	375	159	P	V
	*	2462	101.36	-	-	90.94	27.3	16.72	33.6	375	159	A	V
		2485.32	53.17	-20.83	74	42.73	27.3	16.74	33.6	375	159	P	V
		2486.6	42.14	-11.86	54	31.69	27.3	16.74	33.59	375	159	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	40.11	-33.89	74	57.15	31.1	11.02	59.16	100	0	P	H
		4824	42.56	-31.44	74	59.6	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	40.91	-33.09	74	57.97	31.05	11.06	59.17	100	0	P	H
		7311	42.29	-31.71	74	51.29	36.52	13.66	59.18	100	0	P	H
		4874	41.54	-32.46	74	58.6	31.05	11.06	59.17	100	0	P	V
		7311	42.89	-31.11	74	51.89	36.52	13.66	59.18	100	0	P	V
802.11b CH 11 2462MHz		4924	39.49	-34.51	74	56.44	31.14	11.09	59.18	100	0	P	H
		7386	42.95	-31.05	74	52.06	36.46	13.58	59.15	100	0	P	H
		4924	39.11	-34.89	74	56.06	31.14	11.09	59.18	100	0	P	V
		7386	41.83	-32.17	74	50.94	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.8	54.38	-19.62	74	43.93	27.44	16.64	33.63	297	64	P	H
		2390	44.06	-9.94	54	33.61	27.44	16.64	33.63	297	64	A	H
	*	2412	105.73	-	-	95.31	27.38	16.66	33.62	297	64	P	H
	*	2412	98.49	-	-	88.07	27.38	16.66	33.62	297	64	A	H
		2389.905	55.26	-18.74	74	44.81	27.44	16.64	33.63	335	156	P	V
		2390	43.25	-10.75	54	32.8	27.44	16.64	33.63	335	156	A	V
	*	2412	105.19	-	-	94.77	27.38	16.66	33.62	335	156	P	V
	*	2412	97.74	-	-	87.32	27.38	16.66	33.62	335	156	A	V
802.11g CH 06 2437MHz		2364.24	52.42	-21.58	74	41.91	27.54	16.61	33.64	327	65	P	H
		2389.84	42.11	-11.89	54	31.66	27.44	16.64	33.63	327	65	A	H
	*	2437	106.17	-	-	95.76	27.33	16.69	33.61	327	65	P	H
	*	2437	98.44	-	-	88.03	27.33	16.69	33.61	327	65	A	H
		2488.56	52.52	-21.48	74	42.07	27.3	16.74	33.59	327	65	P	H
		2483.52	42.71	-11.29	54	32.27	27.3	16.74	33.6	327	65	A	H
		2352.08	53.11	-20.89	74	42.57	27.59	16.59	33.64	400	0	P	V
		2389.68	41.96	-12.04	54	31.51	27.44	16.64	33.63	400	0	A	V
	*	2437	105.12	-	-	94.71	27.33	16.69	33.61	400	0	P	V
	*	2437	97.24	-	-	86.83	27.33	16.69	33.61	400	0	A	V
		2499.76	52.55	-21.45	74	42.09	27.3	16.75	33.59	400	0	P	V
		2483.52	41.88	-12.12	54	31.44	27.3	16.74	33.6	400	0	A	V



WIFI Ant. 3+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 11 2462MHz	*	2462	107.45	-	-	97.03	27.3	16.72	33.6	297	64	P	H
	*	2462	99.13	-	-	88.71	27.3	16.72	33.6	297	64	A	H
		2484.12	55.07	-18.93	74	44.63	27.3	16.74	33.6	297	64	P	H
		2483.52	44.41	-9.59	54	33.97	27.3	16.74	33.6	297	64	A	H
	*	2462	105.55	-	-	95.13	27.3	16.72	33.6	378	159	P	V
	*	2462	98.1	-	-	87.68	27.3	16.72	33.6	378	159	A	V
		2484.28	54.11	-19.89	74	43.67	27.3	16.74	33.6	378	159	P	V
		2483.56	43.54	-10.46	54	33.1	27.3	16.74	33.6	378	159	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	36.95	-37.05	74	53.99	31.1	11.02	59.16	100	0	P	H
		4824	37.67	-36.33	74	54.71	31.1	11.02	59.16	100	0	P	V
802.11g CH 06 2437MHz		4874	37.56	-36.44	74	54.62	31.05	11.06	59.17	100	0	P	H
		7311	41.17	-32.83	74	50.17	36.52	13.66	59.18	100	0	P	H
		4874	37.68	-36.32	74	54.74	31.05	11.06	59.17	100	0	P	V
		7311	41.1	-32.9	74	50.1	36.52	13.66	59.18	100	0	P	V
802.11g CH 11 2462MHz		4924	37.92	-36.08	74	54.87	31.14	11.09	59.18	100	0	P	H
		7386	40.79	-33.21	74	49.9	36.46	13.58	59.15	100	0	P	H
		4924	37.62	-36.38	74	54.57	31.14	11.09	59.18	100	0	P	V
		7386	40.44	-33.56	74	49.55	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.905	56.54	-17.46	74	46.09	27.44	16.64	33.63	285	68	P	H
		2389.905	46.55	-7.45	54	36.1	27.44	16.64	33.63	285	68	A	H
	*	2414	105.76	-	-	95.35	27.37	16.66	33.62	285	68	P	H
	*	2412	97.93	-	-	87.51	27.38	16.66	33.62	285	68	A	H
		2390	55.05	-18.95	74	44.6	27.44	16.64	33.63	345	150	P	V
		2390	45.12	-8.88	54	34.67	27.44	16.64	33.63	345	150	A	V
	*	2412	105.06	-	-	94.64	27.38	16.66	33.62	345	150	P	V
	*	2412	97.66	-	-	87.24	27.38	16.66	33.62	345	150	A	V
802.11n HT20 CH 06 2437MHz		2387.76	52.7	-21.3	74	42.24	27.45	16.64	33.63	340	62	P	H
		2387.12	43.27	-10.73	54	32.81	27.45	16.64	33.63	340	62	A	H
	*	2437	107.36	-	-	96.95	27.33	16.69	33.61	340	62	P	H
	*	2437	99.24	-	-	88.83	27.33	16.69	33.61	340	62	A	H
		2487.52	52.99	-21.01	74	42.54	27.3	16.74	33.59	340	62	P	H
		2484.96	43.15	-10.85	54	32.71	27.3	16.74	33.6	340	62	A	H
		2323.28	53.25	-20.75	74	42.63	27.71	16.56	33.65	379	159	P	V
		2389.84	43.58	-10.42	54	33.13	27.44	16.64	33.63	379	159	A	V
	*	2437	106.49	-	-	96.08	27.33	16.69	33.61	379	159	P	V
	*	2437	98.96	-	-	88.55	27.33	16.69	33.61	379	159	A	V
		2484.64	53.25	-20.75	74	42.81	27.3	16.74	33.6	379	159	P	V
		2485.6	43.47	-10.53	54	33.03	27.3	16.74	33.6	379	159	A	V



WIFI Ant. 3+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 11 2462MHz	*	2462	107.3	-	-	96.88	27.3	16.72	33.6	295	64	P	H
	*	2462	99.71	-	-	89.29	27.3	16.72	33.6	295	64	A	H
		2484.2	57.63	-16.37	74	47.19	27.3	16.74	33.6	295	64	P	H
		2483.68	47.75	-6.25	54	37.31	27.3	16.74	33.6	295	64	A	H
	*	2462	106.37	-	-	95.95	27.3	16.72	33.6	373	159	P	V
	*	2462	99.13	-	-	88.71	27.3	16.72	33.6	373	159	A	V
		2484.28	55.21	-18.79	74	44.77	27.3	16.74	33.6	373	159	P	V
		2483.68	46.56	-7.44	54	36.12	27.3	16.74	33.6	373	159	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2386.16	61.38	-12.62	74	50.92	27.46	16.63	33.63	301	63	P	H
		2385.52	51.62	-2.38	54	41.16	27.46	16.63	33.63	301	63	A	H
	*	2422	102.94	-	-	92.53	27.36	16.67	33.62	301	63	P	H
	*	2422	94.88	-	-	84.47	27.36	16.67	33.62	301	63	A	H
		2497.2	53.12	-20.88	74	42.66	27.3	16.75	33.59	301	63	P	H
		2485.84	43.76	-10.24	54	33.32	27.3	16.74	33.6	301	63	A	H
		2386	59.33	-14.67	74	48.87	27.46	16.63	33.63	392	160	P	V
		2385.84	48.83	-5.17	54	38.37	27.46	16.63	33.63	392	160	A	V
	*	2422	101.6	-	-	91.19	27.36	16.67	33.62	392	160	P	V
	*	2422	93.78	-	-	83.37	27.36	16.67	33.62	392	160	A	V
		2496.08	53.54	-20.46	74	43.08	27.3	16.75	33.59	392	160	P	V
		2486.72	43.51	-10.49	54	33.06	27.3	16.74	33.59	392	160	A	V
802.11n HT40 CH 06 2437MHz		2389.68	58.64	-15.36	74	48.19	27.44	16.64	33.63	295	64	P	H
		2389.84	48.64	-5.36	54	38.19	27.44	16.64	33.63	295	64	A	H
	*	2437	104.87	-	-	94.46	27.33	16.69	33.61	295	64	P	H
	*	2437	96.76	-	-	86.35	27.33	16.69	33.61	295	64	A	H
		2488.88	56.28	-17.72	74	45.83	27.3	16.74	33.59	295	64	P	H
		2484.56	46.47	-7.53	54	36.03	27.3	16.74	33.6	295	64	A	H
		2390	57.07	-16.93	74	46.62	27.44	16.64	33.63	400	2	P	V
		2389.52	47.55	-6.45	54	37.1	27.44	16.64	33.63	400	2	A	V
	*	2437	101.89	-	-	91.48	27.33	16.69	33.61	400	2	P	V
	*	2437	94.74	-	-	84.33	27.33	16.69	33.61	400	2	A	V
		2483.84	55.49	-18.51	74	45.05	27.3	16.74	33.6	400	2	P	V
		2483.52	46.23	-7.77	54	35.79	27.3	16.74	33.6	400	2	A	V



WIFI Ant. 3+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2387.28	52.63	-21.37	74	42.17	27.45	16.64	33.63	330	64	P	H
		2385.84	43.61	-10.39	54	33.15	27.46	16.63	33.63	330	64	A	H
	*	2452	104.5	-	-	94.11	27.3	16.7	33.61	330	64	P	H
	*	2452	96.69	-	-	86.3	27.3	16.7	33.61	330	64	A	H
		2485.12	60.26	-13.74	74	49.82	27.3	16.74	33.6	330	64	P	H
		2484	51.83	-2.17	54	41.39	27.3	16.74	33.6	330	64	A	H
		2387.12	53.48	-20.52	74	43.02	27.45	16.64	33.63	386	159	P	V
		2388.24	43.78	-10.22	54	33.32	27.45	16.64	33.63	386	159	A	V
	*	2452	103.73	-	-	93.34	27.3	16.7	33.61	386	159	P	V
	*	2452	95.75	-	-	85.36	27.3	16.7	33.61	386	159	A	V
		2483.84	59.55	-14.45	74	49.11	27.3	16.74	33.6	386	159	P	V
		2483.6	50.49	-3.51	54	40.05	27.3	16.74	33.6	386	159	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		93.18	36.66	-6.84	43.5	52.72	14.96	1.31	32.33	-	-	P	H
		98.04	37.39	-6.11	43.5	52.92	15.46	1.33	32.32	100	0	P	H
		154.2	32.83	-10.67	43.5	46.77	16.64	1.7	32.28	-	-	P	H
		819.4	30.53	-15.47	46	30.19	28.14	3.98	31.78	-	-	P	H
		868.4	32.54	-13.46	46	30.68	29.27	4.11	31.52	-	-	P	H
		954.5	34.74	-11.26	46	30.5	30.77	4.32	30.85	-	-	P	H
		53.49	31.87	-8.13	40	50.64	12.63	0.97	32.37	100	0	P	V
		92.91	32.59	-10.91	43.5	48.68	14.93	1.31	32.33	-	-	P	V
		166.62	30.33	-13.17	43.5	45.14	15.66	1.8	32.27	-	-	P	V
		866.3	32.77	-13.23	46	30.91	29.28	4.11	31.53	-	-	P	V
		959.4	33.96	-12.04	46	29.45	30.97	4.34	30.8	-	-	P	V
		972	34.44	-19.56	54	29.79	30.96	4.38	30.69	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Calling Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2323.545	53.19	-20.81	74	42.57	27.71	16.56	33.65	100	285	P	H
		2387.175	42.35	-11.65	54	31.89	27.45	16.64	33.63	100	285	A	H
	*	2412	104.11	-	-	93.69	27.38	16.66	33.62	100	285	P	H
	*	2412	101.08	-	-	90.66	27.38	16.66	33.62	100	285	A	H
		2385.81	52.86	-21.14	74	42.4	27.46	16.63	33.63	391	92	P	V
		2386.86	41.83	-12.17	54	31.38	27.45	16.63	33.63	391	92	A	V
	*	2412	102.14	-	-	91.72	27.38	16.66	33.62	391	92	P	V
	*	2412	98.89	-	-	88.47	27.38	16.66	33.62	391	92	A	V
802.11b CH 06 2437MHz		2387.76	52.55	-21.45	74	42.09	27.45	16.64	33.63	100	286	P	H
		2390	42.12	-11.88	54	31.67	27.44	16.64	33.63	100	286	A	H
	*	2437	104.14	-	-	93.73	27.33	16.69	33.61	100	286	P	H
	*	2437	100.76	-	-	90.35	27.33	16.69	33.61	100	286	A	H
		2498.8	51.82	-22.18	74	41.36	27.3	16.75	33.59	100	286	P	H
		2484.24	41.81	-12.19	54	31.37	27.3	16.74	33.6	100	286	A	H
		2367.76	52.74	-21.26	74	42.24	27.53	16.61	33.64	394	92	P	V
		2389.84	41.81	-12.19	54	31.36	27.44	16.64	33.63	394	92	A	V
	*	2437	101.59	-	-	91.18	27.33	16.69	33.61	394	92	P	V
	*	2437	98.41	-	-	88	27.33	16.69	33.61	394	92	A	V
		2495.52	52.17	-21.83	74	41.71	27.3	16.75	33.59	394	92	P	V
		2483.68	41.64	-12.36	54	31.2	27.3	16.74	33.6	394	92	A	V



WIFI Ant. 0	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 11 2462MHz	*	2462	103.9	-	-	93.48	27.3	16.72	33.6	108	279	P	H
	*	2462	100.78	-	-	90.36	27.3	16.72	33.6	108	279	A	H
		2488.24	52.59	-21.41	74	42.14	27.3	16.74	33.59	108	279	P	H
		2483.52	41.98	-12.02	54	31.54	27.3	16.74	33.6	108	279	A	H
	*	2462	101.03	-	-	90.61	27.3	16.72	33.6	378	92	P	V
	*	2462	97.93	-	-	87.51	27.3	16.72	33.6	378	92	A	V
		2491.4	52.81	-21.19	74	42.35	27.3	16.75	33.59	378	92	P	V
		2483.56	41.74	-12.26	54	31.3	27.3	16.74	33.6	378	92	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	38.17	-35.83	74	55.21	31.1	11.02	59.16	100	0	P	H
		4824	40.47	-33.53	74	57.51	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	38.93	-35.07	74	55.99	31.05	11.06	59.17	100	0	P	H
		7311	45.01	-28.99	74	54.01	36.52	13.66	59.18	100	0	P	H
		4874	43.62	-30.38	74	60.68	31.05	11.06	59.17	100	0	P	V
		7311	52.14	-21.86	74	61.14	36.52	13.66	59.18	105	308	P	V
		7311	42.23	-11.77	54	51.23	36.52	13.66	59.18	105	308	A	V
802.11b CH 11 2462MHz		4924	40.14	-33.86	74	57.09	31.14	11.09	59.18	100	0	P	H
		7386	48.23	-25.77	74	57.34	36.46	13.58	59.15	100	0	P	H
		4924	43.91	-30.09	74	60.86	31.14	11.09	59.18	100	0	P	V
		7386	49.13	-24.87	74	58.24	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2390	62.16	-11.84	74	51.71	27.44	16.64	33.63	100	285	P	H
		2390	49.78	-4.22	54	39.33	27.44	16.64	33.63	100	285	A	H
	*	2412	105.74	-	-	95.32	27.38	16.66	33.62	100	285	P	H
	*	2412	98.39	-	-	87.97	27.38	16.66	33.62	100	285	A	H
		2389.905	57.72	-16.28	74	47.27	27.44	16.64	33.63	392	91	P	V
		2390	47.39	-6.61	54	36.94	27.44	16.64	33.63	392	91	A	V
	*	2412	103.33	-	-	92.91	27.38	16.66	33.62	392	91	P	V
	*	2412	95.8	-	-	85.38	27.38	16.66	33.62	392	91	A	V
802.11g CH 06 2437MHz		2384.4	53.22	-20.78	74	42.76	27.46	16.63	33.63	100	286	P	H
		2390	42.66	-11.34	54	32.21	27.44	16.64	33.63	100	286	A	H
	*	2437	106.28	-	-	95.87	27.33	16.69	33.61	100	286	P	H
	*	2437	98.49	-	-	88.08	27.33	16.69	33.61	100	286	A	H
		2498.64	52.71	-21.29	74	42.25	27.3	16.75	33.59	100	286	P	H
		2483.52	42.18	-11.82	54	31.74	27.3	16.74	33.6	100	286	A	H
		2371.28	52.15	-21.85	74	41.66	27.51	16.62	33.64	391	90	P	V
		2390	42.07	-11.93	54	31.62	27.44	16.64	33.63	391	90	A	V
	*	2437	103.43	-	-	93.02	27.33	16.69	33.61	391	90	P	V
	*	2437	95.85	-	-	85.44	27.33	16.69	33.61	391	90	A	V
		2497.2	51.98	-22.02	74	41.52	27.3	16.75	33.59	391	90	P	V
		2483.52	41.73	-12.27	54	31.29	27.3	16.74	33.6	391	90	A	V



WIFI Ant. 0	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	105.81	-	-	95.39	27.3	16.72	33.6	106	278	P	H
	*	2462	98.21	-	-	87.79	27.3	16.72	33.6	106	278	A	H
		2484.32	58.43	-15.57	74	47.99	27.3	16.74	33.6	106	278	P	H
		2483.52	46.52	-7.48	54	36.08	27.3	16.74	33.6	106	278	A	H
	*	2462	102.67	-	-	92.25	27.3	16.72	33.6	378	91	P	V
	*	2462	95.11	-	-	84.69	27.3	16.72	33.6	378	91	A	V
		2484.12	56.41	-17.59	74	45.97	27.3	16.74	33.6	378	91	P	V
		2483.52	44.71	-9.29	54	34.27	27.3	16.74	33.6	378	91	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	37.56	-36.44	74	54.6	31.1	11.02	59.16	100	0	P	H
CH 01		4824	40.3	-33.7	74	57.34	31.1	11.02	59.16	100	0	P	V
2412MHz													
802.11g		4874	37.77	-36.23	74	54.83	31.05	11.06	59.17	100	0	P	H
CH 06		7311	49.04	-24.96	74	58.04	36.52	13.66	59.18	100	0	P	H
2437MHz		4874	40.39	-33.61	74	57.45	31.05	11.06	59.17	100	0	P	V
		7311	48.51	-25.49	74	57.51	36.52	13.66	59.18	100	0	P	V
802.11g		4924	38.39	-35.61	74	55.34	31.14	11.09	59.18	100	0	P	H
CH 11		7386	47.39	-26.61	74	56.5	36.46	13.58	59.15	100	0	P	H
2462MHz		4924	42.03	-31.97	74	58.98	31.14	11.09	59.18	100	0	P	V
		7386	45.65	-28.35	74	54.76	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.905	60.95	-13.05	74	50.5	27.44	16.64	33.63	126	284	P	H
		2390	51.76	-2.24	54	41.31	27.44	16.64	33.63	126	284	A	H
	*	2412	105.49	-	-	95.07	27.38	16.66	33.62	126	284	P	H
	*	2412	97.61	-	-	87.19	27.38	16.66	33.62	126	284	A	H
		2389.8	59.13	-14.87	74	48.68	27.44	16.64	33.63	391	91	P	V
		2390	49.19	-4.81	54	38.74	27.44	16.64	33.63	391	91	A	V
	*	2412	102.7	-	-	92.28	27.38	16.66	33.62	391	91	P	V
	*	2412	95.26	-	-	84.84	27.38	16.66	33.62	391	91	A	V
802.11n HT20 CH 06 2437MHz		2385.52	53.59	-20.41	74	43.13	27.46	16.63	33.63	100	285	P	H
		2389.84	44.48	-9.52	54	34.03	27.44	16.64	33.63	100	285	A	H
	*	2437	105.44	-	-	95.03	27.33	16.69	33.61	100	285	P	H
	*	2437	97.76	-	-	87.35	27.33	16.69	33.61	100	285	A	H
		2484.72	52.98	-21.02	74	42.54	27.3	16.74	33.6	100	285	P	H
		2484.8	43.6	-10.4	54	33.16	27.3	16.74	33.6	100	285	A	H
		2361.04	52.52	-21.48	74	41.99	27.56	16.61	33.64	388	91	P	V
		2388.08	43.28	-10.72	54	32.82	27.45	16.64	33.63	388	91	A	V
	*	2437	103.03	-	-	92.62	27.33	16.69	33.61	388	91	P	V
	*	2437	95.41	-	-	85	27.33	16.69	33.61	388	91	A	V
		2485.76	52.44	-21.56	74	42	27.3	16.74	33.6	388	91	P	V
		2484.08	42.89	-11.11	54	32.45	27.3	16.74	33.6	388	91	A	V



WIFI Ant. 0	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 11 2462MHz	*	2462	105.84	-	-	95.42	27.3	16.72	33.6	108	278	P	H
	*	2462	97.56	-	-	87.14	27.3	16.72	33.6	108	278	A	H
		2483.8	59.44	-14.56	74	49	27.3	16.74	33.6	108	278	P	H
		2483.52	48.98	-5.02	54	38.54	27.3	16.74	33.6	108	278	A	H
	*	2462	101.91	-	-	91.49	27.3	16.72	33.6	376	89	P	V
	*	2462	94.23	-	-	83.81	27.3	16.72	33.6	376	89	A	V
		2483.6	55.79	-18.21	74	45.35	27.3	16.74	33.6	376	89	P	V
		2483.52	46.31	-7.69	54	35.87	27.3	16.74	33.6	376	89	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2390	59.13	-14.87	74	48.68	27.44	16.64	33.63	121	293	P	H
		2389.52	51.47	-2.53	54	41.02	27.44	16.64	33.63	121	293	A	H
	*	2422	99.44	-	-	89.03	27.36	16.67	33.62	121	293	P	H
	*	2422	91.42	-	-	81.01	27.36	16.67	33.62	121	293	A	H
		2484.08	52.85	-21.15	74	42.41	27.3	16.74	33.6	121	293	P	H
		2484.4	43.34	-10.66	54	32.9	27.3	16.74	33.6	121	293	A	H
		2389.36	56.18	-17.82	74	45.73	27.44	16.64	33.63	394	13	P	V
		2389.36	47.79	-6.21	54	37.34	27.44	16.64	33.63	394	13	A	V
	*	2422	97.48	-	-	87.07	27.36	16.67	33.62	394	13	P	V
	*	2422	89.59	-	-	79.18	27.36	16.67	33.62	394	13	A	V
		2495.2	53.06	-20.94	74	42.6	27.3	16.75	33.59	394	13	P	V
		2489.2	43.63	-10.37	54	33.18	27.3	16.74	33.59	394	13	A	V
802.11n HT40 CH 06 2437MHz		2389.52	62.06	-11.94	74	51.61	27.44	16.64	33.63	112	295	P	H
		2390	51.63	-2.37	54	41.18	27.44	16.64	33.63	112	295	A	H
	*	2437	102.8	-	-	92.39	27.33	16.69	33.61	112	295	P	H
	*	2437	94.83	-	-	84.42	27.33	16.69	33.61	112	295	A	H
		2483.6	58.5	-15.5	74	48.06	27.3	16.74	33.6	112	295	P	H
		2483.52	49.54	-4.46	54	39.1	27.3	16.74	33.6	112	295	A	H
		2389.52	58.02	-15.98	74	47.57	27.44	16.64	33.63	388	12	P	V
		2389.68	48.35	-5.65	54	37.9	27.44	16.64	33.63	388	12	A	V
	*	2437	101.78	-	-	91.37	27.33	16.69	33.61	388	12	P	V
	*	2437	93.64	-	-	83.23	27.33	16.69	33.61	388	12	A	V
		2483.76	55.07	-18.93	74	44.63	27.3	16.74	33.6	388	12	P	V
		2483.6	46	-8	54	35.56	27.3	16.74	33.6	388	12	A	V



WIFI Ant. 0	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2322.64	52.91	-21.09	74	42.29	27.71	16.56	33.65	118	277	P	H
		2390	43.75	-10.25	54	33.3	27.44	16.64	33.63	118	277	A	H
	*	2452	102.48	-	-	92.09	27.3	16.7	33.61	118	277	P	H
	*	2452	94.35	-	-	83.96	27.3	16.7	33.61	118	277	A	H
		2484.96	60.42	-13.58	74	49.98	27.3	16.74	33.6	118	277	P	H
		2483.52	51.4	-2.6	54	40.96	27.3	16.74	33.6	118	277	A	H
		2341.68	53.63	-20.37	74	43.07	27.63	16.58	33.65	388	13	P	V
		2348.56	43.44	-10.56	54	32.88	27.61	16.59	33.64	388	13	A	V
	*	2452	100.7	-	-	90.31	27.3	16.7	33.61	388	13	P	V
	*	2452	92.89	-	-	82.5	27.3	16.7	33.61	388	13	A	V
		2483.92	56.22	-17.78	74	45.78	27.3	16.74	33.6	388	13	P	V
		2483.52	48.09	-5.91	54	37.65	27.3	16.74	33.6	388	13	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (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.	
0		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		92.91	36.93	-6.57	43.5	53.02	14.93	1.31	32.33	-	-	P	H
		98.58	37.39	-6.11	43.5	52.86	15.52	1.33	32.32	100	0	P	H
		154.74	32.75	-10.75	43.5	46.71	16.61	1.71	32.28	-	-	P	H
		884.5	32.39	-13.61	46	30.58	29.09	4.15	31.43	-	-	P	H
		937.7	33.17	-12.83	46	30.04	29.84	4.29	31	-	-	P	H
		962.9	34.29	-19.71	54	29.72	30.99	4.35	30.77	-	-	P	H
		53.49	31.48	-8.52	40	50.25	12.63	0.97	32.37	100	0	P	V
		91.29	31.06	-12.44	43.5	47.31	14.78	1.3	32.33	-	-	P	V
		106.95	29.5	-14	43.5	43.84	16.58	1.39	32.31	-	-	P	V
		874.7	32.62	-13.38	46	30.77	29.2	4.13	31.48	-	-	P	V
		939.1	33.3	-12.7	46	30.09	29.91	4.29	30.99	-	-	P	V
		962.2	34.06	-19.94	54	29.49	31	4.35	30.78	-	-	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.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2314.515	53.04	-20.96	74	42.41	27.74	16.55	33.66	300	48	P	H
		2385.285	42.09	-11.91	54	31.63	27.46	16.63	33.63	300	48	A	H
	*	2412	104.61	-	-	94.19	27.38	16.66	33.62	300	48	P	H
	*	2412	101.44	-	-	91.02	27.38	16.66	33.62	300	48	A	H
		2329.845	52.1	-21.9	74	41.5	27.68	16.57	33.65	108	58	P	V
		2385.285	41.74	-12.26	54	31.28	27.46	16.63	33.63	108	58	A	V
	*	2412	100.99	-	-	90.57	27.38	16.66	33.62	108	58	P	V
	*	2412	97.71	-	-	87.29	27.38	16.66	33.62	108	58	A	V
802.11b CH 06 2437MHz		2380.08	52.67	-21.33	74	42.19	27.48	16.63	33.63	335	50	P	H
		2390	41.87	-12.13	54	31.42	27.44	16.64	33.63	335	50	A	H
	*	2437	106.32	-	-	95.91	27.33	16.69	33.61	335	50	P	H
	*	2437	103.07	-	-	92.66	27.33	16.69	33.61	335	50	A	H
		2486.56	52.71	-21.29	74	42.26	27.3	16.74	33.59	335	50	P	H
		2484	42.14	-11.86	54	31.7	27.3	16.74	33.6	335	50	A	H
		2314.16	52.37	-21.63	74	41.74	27.74	16.55	33.66	104	58	P	V
		2390	41.64	-12.36	54	31.19	27.44	16.64	33.63	104	58	A	V
	*	2437	103.01	-	-	92.6	27.33	16.69	33.61	104	58	P	V
	*	2437	99.8	-	-	89.39	27.33	16.69	33.61	104	58	A	V
		2487.2	52.69	-21.31	74	42.24	27.3	16.74	33.59	104	58	P	V
		2484.08	41.81	-12.19	54	31.37	27.3	16.74	33.6	104	58	A	V



WIFI Ant. 3	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 11 2462MHz	*	2462	105.23	-	-	94.81	27.3	16.72	33.6	259	75	P	H
	*	2462	101.96	-	-	91.54	27.3	16.72	33.6	259	75	A	H
		2496.56	52.36	-21.64	74	41.9	27.3	16.75	33.59	259	75	P	H
		2483.76	41.97	-12.03	54	31.53	27.3	16.74	33.6	259	75	A	H
	*	2462	102.41	-	-	91.99	27.3	16.72	33.6	100	60	P	V
	*	2462	99.15	-	-	88.73	27.3	16.72	33.6	100	60	A	V
		2484.08	53.02	-20.98	74	42.58	27.3	16.74	33.6	100	60	P	V
		2483.64	41.84	-12.16	54	31.4	27.3	16.74	33.6	100	60	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	37.59	-36.41	74	54.63	31.1	11.02	59.16	100	0	P	H
		4824	37.39	-36.61	74	54.43	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	47.99	-26.01	74	65.05	31.05	11.06	59.17	100	0	P	H
		7311	41.1	-32.9	74	50.1	36.52	13.66	59.18	100	0	P	H
		4874	47.36	-26.64	74	64.42	31.05	11.06	59.17	100	0	P	V
		7311	40.58	-33.42	74	49.58	36.52	13.66	59.18	100	0	P	V
802.11b CH 11 2462MHz		4924	40.66	-33.34	74	57.61	31.14	11.09	59.18	100	0	P	H
		7386	41.59	-32.41	74	50.7	36.46	13.58	59.15	100	0	P	H
		4924	41.77	-32.23	74	58.72	31.14	11.09	59.18	100	0	P	V
		7386	40.82	-33.18	74	49.93	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.695	59.65	-14.35	74	49.2	27.44	16.64	33.63	300	49	P	H
		2390	49.06	-4.94	54	38.61	27.44	16.64	33.63	300	49	A	H
	*	2412	106.81	-	-	96.39	27.38	16.66	33.62	300	49	P	H
	*	2412	99.21	-	-	88.79	27.38	16.66	33.62	300	49	A	H
		2389.905	57.11	-16.89	74	46.66	27.44	16.64	33.63	108	58	P	V
		2390	46.71	-7.29	54	36.26	27.44	16.64	33.63	108	58	A	V
	*	2412	103.2	-	-	92.78	27.38	16.66	33.62	108	58	P	V
	*	2412	95.64	-	-	85.22	27.38	16.66	33.62	108	58	A	V
802.11g CH 06 2437MHz		2389.04	53.24	-20.76	74	42.79	27.44	16.64	33.63	302	70	P	H
		2390	42.52	-11.48	54	32.07	27.44	16.64	33.63	302	70	A	H
	*	2437	106.66	-	-	96.25	27.33	16.69	33.61	302	70	P	H
	*	2437	98.16	-	-	87.75	27.33	16.69	33.61	302	70	A	H
		2485.36	54.19	-19.81	74	43.75	27.3	16.74	33.6	302	70	P	H
		2483.52	43.37	-10.63	54	32.93	27.3	16.74	33.6	302	70	A	H
		2382.96	52.55	-21.45	74	42.08	27.47	16.63	33.63	305	99	P	V
		2388.88	41.73	-12.27	54	31.28	27.44	16.64	33.63	305	99	A	V
	*	2437	102.77	-	-	92.36	27.33	16.69	33.61	305	99	P	V
	*	2437	94.93	-	-	84.52	27.33	16.69	33.61	305	99	A	V
		2497.92	52.46	-21.54	74	42	27.3	16.75	33.59	305	99	P	V
		2483.52	41.97	-12.03	54	31.53	27.3	16.74	33.6	305	99	A	V



WIFI Ant. 3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	107.73	-	-	97.31	27.3	16.72	33.6	302	70	P	H
	*	2462	99.33	-	-	88.91	27.3	16.72	33.6	302	70	A	H
		2483.84	59.14	-14.86	74	48.7	27.3	16.74	33.6	302	70	P	H
		2483.52	48.64	-5.36	54	38.2	27.3	16.74	33.6	302	70	A	H
	*	2462	101.37	-	-	90.95	27.3	16.72	33.6	300	98	P	V
	*	2462	92.73	-	-	82.31	27.3	16.72	33.6	300	98	A	V
		2483.6	56.22	-17.78	74	45.78	27.3	16.74	33.6	300	98	P	V
		2483.52	45.23	-8.77	54	34.79	27.3	16.74	33.6	300	98	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	36.69	-37.31	74	53.73	31.1	11.02	59.16	100	0	P	H
CH 01		4824	38.85	-35.15	74	55.89	31.1	11.02	59.16	100	0	P	V
2412MHz													
802.11g		4874	46.87	-27.13	74	63.93	31.05	11.06	59.17	100	0	P	H
CH 06		7311	42.02	-31.98	74	51.02	36.52	13.66	59.18	100	0	P	H
2437MHz		4874	46.66	-27.34	74	63.72	31.05	11.06	59.17	100	0	P	V
		7311	41.84	-32.16	74	50.84	36.52	13.66	59.18	100	0	P	V
802.11g		4924	43.95	-30.05	74	60.9	31.14	11.09	59.18	100	0	P	H
CH 11		7386	40.77	-33.23	74	49.88	36.46	13.58	59.15	100	0	P	H
2462MHz		4924	41.64	-32.36	74	58.59	31.14	11.09	59.18	100	0	P	V
		7386	40.85	-33.15	74	49.96	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2390	60.55	-13.45	74	50.1	27.44	16.64	33.63	300	49	P	H
		2390	50.53	-3.47	54	40.08	27.44	16.64	33.63	300	49	A	H
	*	2412	105.61	-	-	95.19	27.38	16.66	33.62	300	49	P	H
	*	2412	98.02	-	-	87.6	27.38	16.66	33.62	300	49	A	H
		2389.905	57.09	-16.91	74	46.64	27.44	16.64	33.63	108	58	P	V
		2390	47.51	-6.49	54	37.06	27.44	16.64	33.63	108	58	A	V
	*	2412	102.52	-	-	92.1	27.38	16.66	33.62	108	58	P	V
	*	2412	94.47	-	-	84.05	27.38	16.66	33.62	108	58	A	V
802.11n HT20 CH 06 2437MHz		2387.76	52.21	-21.79	74	41.75	27.45	16.64	33.63	302	70	P	H
		2389.84	43.41	-10.59	54	32.96	27.44	16.64	33.63	302	70	A	H
	*	2437	105.91	-	-	95.5	27.33	16.69	33.61	302	70	P	H
	*	2437	97.99	-	-	87.58	27.33	16.69	33.61	302	70	A	H
		2484.48	53.59	-20.41	74	43.15	27.3	16.74	33.6	302	70	P	H
		2484.48	44.1	-9.9	54	33.66	27.3	16.74	33.6	302	70	A	H
		2373.52	52.14	-21.86	74	41.65	27.51	16.62	33.64	305	99	P	V
		2372.08	42.56	-11.44	54	32.07	27.51	16.62	33.64	305	99	A	V
	*	2437	101.96	-	-	91.55	27.33	16.69	33.61	305	99	P	V
	*	2437	93.61	-	-	83.2	27.33	16.69	33.61	305	99	A	V
		2496	52.39	-21.61	74	41.93	27.3	16.75	33.59	305	99	P	V
		2484.32	42.8	-11.2	54	32.36	27.3	16.74	33.6	305	99	A	V



WIFI Ant. 3	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 11 2462MHz	*	2462	108.03	-	-	97.61	27.3	16.72	33.6	302	70	P	H
	*	2462	98.84	-	-	88.42	27.3	16.72	33.6	302	70	A	H
		2484.32	60.67	-13.33	74	50.23	27.3	16.74	33.6	302	70	P	H
		2483.56	51.29	-2.71	54	40.85	27.3	16.74	33.6	302	70	A	H
	*	2462	101.74	-	-	91.32	27.3	16.72	33.6	300	98	P	V
	*	2462	91.92	-	-	81.5	27.3	16.72	33.6	300	98	A	V
		2485.36	55.44	-18.56	74	45	27.3	16.74	33.6	300	98	P	V
		2483.52	48.03	-5.97	54	37.59	27.3	16.74	33.6	300	98	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2387.76	58.86	-15.14	74	48.4	27.45	16.64	33.63	302	49	P	H
		2389.52	51.22	-2.78	54	40.77	27.44	16.64	33.63	302	49	A	H
	*	2422	100.22	-	-	89.81	27.36	16.67	33.62	302	49	P	H
	*	2422	92.09	-	-	81.68	27.36	16.67	33.62	302	49	A	H
		2491.92	53.31	-20.69	74	42.85	27.3	16.75	33.59	302	49	P	H
		2486.88	43.77	-10.23	54	33.32	27.3	16.74	33.59	302	49	A	H
		2390	56.87	-17.13	74	46.42	27.44	16.64	33.63	108	60	P	V
		2389.36	47.93	-6.07	54	37.48	27.44	16.64	33.63	108	60	A	V
	*	2422	95.74	-	-	85.33	27.36	16.67	33.62	108	60	P	V
	*	2422	87.89	-	-	77.48	27.36	16.67	33.62	108	60	A	V
		2496.96	54.05	-19.95	74	43.59	27.3	16.75	33.59	108	60	P	V
		2485.84	43.64	-10.36	54	33.2	27.3	16.74	33.6	108	60	A	V
802.11n HT40 CH 06 2437MHz		2389.36	55.55	-18.45	74	45.1	27.44	16.64	33.63	335	50	P	H
		2390	47.02	-6.98	54	36.57	27.44	16.64	33.63	335	50	A	H
	*	2437	103.59	-	-	93.18	27.33	16.69	33.61	335	50	P	H
	*	2437	95.26	-	-	84.85	27.33	16.69	33.61	335	50	A	H
		2484.24	59.63	-14.37	74	49.19	27.3	16.74	33.6	335	50	P	H
		2483.52	50.94	-3.06	54	40.5	27.3	16.74	33.6	335	50	A	H
		2387.76	54.27	-19.73	74	43.81	27.45	16.64	33.63	105	58	P	V
		2388.88	44.93	-9.07	54	34.48	27.44	16.64	33.63	105	58	A	V
	*	2437	100.17	-	-	89.76	27.33	16.69	33.61	105	58	P	V
	*	2437	91.83	-	-	81.42	27.33	16.69	33.61	105	58	A	V
		2483.6	56.32	-17.68	74	45.88	27.3	16.74	33.6	105	58	P	V
		2483.52	47	-7	54	36.56	27.3	16.74	33.6	105	58	A	V



WIFI Ant. 3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2384.56	53.81	-20.19	74	43.35	27.46	16.63	33.63	296	48	P	H
		2368.24	43.61	-10.39	54	33.11	27.53	16.61	33.64	296	48	A	H
	*	2452	103.22	-	-	92.83	27.3	16.7	33.61	296	48	P	H
	*	2452	95.03	-	-	84.64	27.3	16.7	33.61	296	48	A	H
		2485.44	58.5	-15.5	74	48.06	27.3	16.74	33.6	296	48	P	H
		2483.76	50.01	-3.99	54	39.57	27.3	16.74	33.6	296	48	A	H
		2374.32	53.31	-20.69	74	42.83	27.5	16.62	33.64	100	61	P	V
		2383.12	43.49	-10.51	54	33.02	27.47	16.63	33.63	100	61	A	V
	*	2452	99.16	-	-	88.77	27.3	16.7	33.61	100	61	P	V
	*	2452	91.35	-	-	80.96	27.3	16.7	33.61	100	61	A	V
		2484.24	55.84	-18.16	74	45.4	27.3	16.74	33.6	100	61	P	V
		2484.96	47.3	-6.7	54	36.86	27.3	16.74	33.6	100	61	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		93.18	36.91	-6.59	43.5	52.97	14.96	1.31	32.33	-	-	P	H
		98.58	37.29	-6.21	43.5	52.76	15.52	1.33	32.32	100	0	P	H
		155.01	32.75	-10.75	43.5	46.73	16.59	1.71	32.28	-	-	P	H
		851.6	32.6	-13.4	46	30.98	29.16	4.07	31.61	-	-	P	H
		948.2	33.87	-12.13	46	30	30.47	4.31	30.91	-	-	P	H
		967.8	34.25	-19.75	54	29.64	30.98	4.36	30.73	-	-	P	H
		53.49	31.66	-8.34	40	50.43	12.63	0.97	32.37	100	0	P	V
		92.37	31.87	-11.63	43.5	48.01	14.88	1.31	32.33	-	-	P	V
		106.95	29.41	-14.09	43.5	43.75	16.58	1.39	32.31	-	-	P	V
		857.9	31.41	-14.59	46	29.62	29.27	4.09	31.57	-	-	P	V
		903.4	33.24	-12.76	46	31.36	29	4.2	31.32	-	-	P	V
		946.1	34.88	-11.12	46	31.18	30.33	4.3	30.93	-	-	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.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2377.62	52.64	-21.36	74	42.16	27.49	16.62	33.63	302	54	P	H
		2389.905	41.91	-12.09	54	31.46	27.44	16.64	33.63	302	54	A	H
	*	2412	105.28	-	-	94.86	27.38	16.66	33.62	302	54	P	H
	*	2412	102.31	-	-	91.89	27.38	16.66	33.62	302	54	A	H
		2341.395	53.05	-20.95	74	42.49	27.63	16.58	33.65	311	22	P	V
		2386.755	41.73	-12.27	54	31.28	27.45	16.63	33.63	311	22	A	V
	*	2412	100.78	-	-	90.36	27.38	16.66	33.62	311	22	P	V
	*	2412	97.62	-	-	87.2	27.38	16.66	33.62	311	22	A	V
802.11b CH 06 2437MHz		2371.28	52.43	-21.57	74	41.94	27.51	16.62	33.64	112	293	P	H
		2389.52	41.89	-12.11	54	31.44	27.44	16.64	33.63	112	293	A	H
	*	2437	101.91	-	-	91.5	27.33	16.69	33.61	112	293	P	H
	*	2437	98.64	-	-	88.23	27.33	16.69	33.61	112	293	A	H
		2498.88	52.18	-21.82	74	41.72	27.3	16.75	33.59	112	293	P	H
		2483.92	41.92	-12.08	54	31.48	27.3	16.74	33.6	112	293	A	H
		2317.68	52.73	-21.27	74	42.1	27.73	16.56	33.66	387	360	P	V
		2314.48	41.74	-12.26	54	31.11	27.74	16.55	33.66	387	360	A	V
	*	2437	98.82	-	-	88.41	27.33	16.69	33.61	387	360	P	V
	*	2437	95.72	-	-	85.31	27.33	16.69	33.61	387	360	A	V
		2495.12	53.3	-20.7	74	42.84	27.3	16.75	33.59	387	360	P	V
		2484.32	41.7	-12.3	54	31.26	27.3	16.74	33.6	387	360	P	V



WIFI Ant. 0+3	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 11 2462MHz	*	2462	102.12	-	-	91.7	27.3	16.72	33.6	111	76	P	H
	*	2462	99.06	-	-	88.64	27.3	16.72	33.6	111	76	A	H
		2484.96	53.21	-20.79	74	42.77	27.3	16.74	33.6	111	76	P	H
		2487.88	41.85	-12.15	54	31.4	27.3	16.74	33.59	111	76	A	H
	*	2462	100.85	-	-	90.43	27.3	16.72	33.6	370	0	P	V
	*	2462	97.8	-	-	87.38	27.3	16.72	33.6	370	0	A	V
		2484.36	53.29	-20.71	74	42.85	27.3	16.74	33.6	370	0	P	V
		2485.36	41.71	-12.29	54	31.27	27.3	16.74	33.6	370	0	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	38.39	-35.61	74	55.43	31.1	11.02	59.16	100	0	P	H
		4824	37.75	-36.25	74	54.79	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	42.47	-31.53	74	59.53	31.05	11.06	59.17	100	0	P	H
		7311	45.83	-28.17	74	54.83	36.52	13.66	59.18	100	0	P	H
		4874	42.69	-31.31	74	59.75	31.05	11.06	59.17	100	0	P	V
		7311	55.54	-18.46	74	64.54	36.52	13.66	59.18	100	294	P	V
		7311	48.92	-5.08	54	57.92	36.52	13.66	59.18	100	294	A	V
802.11b CH 11 2462MHz		4924	38.31	-35.69	74	55.26	31.14	11.09	59.18	100	0	P	H
		7386	46.93	-27.07	74	56.04	36.46	13.58	59.15	100	0	P	H
		4924	39.59	-34.41	74	56.54	31.14	11.09	59.18	100	0	P	V
		7386	53.47	-20.53	74	62.58	36.46	13.58	59.15	100	295	P	V
		7386	48.39	-5.61	54	57.5	36.46	13.58	59.15	100	295	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 (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.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2389.065	53.31	-20.69	74	42.86	27.44	16.64	33.63	302	54	P	H
		2388.75	43.6	-10.4	54	33.15	27.44	16.64	33.63	302	54	A	H
	*	2412	106.71	-	-	96.29	27.38	16.66	33.62	302	54	P	H
	*	2412	99.07	-	-	88.65	27.38	16.66	33.62	302	54	A	H
		2345.805	53.17	-20.83	74	42.61	27.62	16.59	33.65	311	22	P	V
		2390	42.76	-11.24	54	32.31	27.44	16.64	33.63	311	22	A	V
	*	2412	101.06	-	-	90.64	27.38	16.66	33.62	311	22	P	V
	*	2412	93.83	-	-	83.41	27.38	16.66	33.62	311	22	A	V
802.11g CH 06 2437MHz		2328.08	53.33	-20.67	74	42.72	27.69	16.57	33.65	337	52	P	H
		2390	42.24	-11.76	54	31.79	27.44	16.64	33.63	337	52	A	H
	*	2437	107.49	-	-	97.08	27.33	16.69	33.61	337	52	P	H
	*	2437	100.69	-	-	90.28	27.33	16.69	33.61	337	52	A	H
		2499.2	52.64	-21.36	74	42.18	27.3	16.75	33.59	337	52	P	H
		2483.6	42.4	-11.6	54	31.96	27.3	16.74	33.6	337	52	A	H
		2351.44	52.39	-21.61	74	41.85	27.59	16.59	33.64	339	24	P	V
		2389.84	41.79	-12.21	54	31.34	27.44	16.64	33.63	339	24	A	V
	*	2437	102.71	-	-	92.3	27.33	16.69	33.61	339	24	P	V
	*	2437	95.86	-	-	85.45	27.33	16.69	33.61	339	24	A	V
		2498	52.51	-21.49	74	42.05	27.3	16.75	33.59	339	24	P	V
		2483.52	41.83	-12.17	54	31.39	27.3	16.74	33.6	339	24	A	V



WIFI Ant. 0+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 11 2462MHz	*	2462	107.47	-	-	97.05	27.3	16.72	33.6	334	53	P	H
	*	2462	99.49	-	-	89.07	27.3	16.72	33.6	334	53	A	H
		2485.32	53.11	-20.89	74	42.67	27.3	16.74	33.6	334	53	P	H
		2483.68	43.33	-10.67	54	32.89	27.3	16.74	33.6	334	53	A	H
	*	2462	102.61	-	-	92.19	27.3	16.72	33.6	304	24	P	V
	*	2462	94.91	-	-	84.49	27.3	16.72	33.6	304	24	A	V
		2499.08	53.2	-20.8	74	42.74	27.3	16.75	33.59	304	24	P	V
		2483.76	42.34	-11.66	54	31.9	27.3	16.74	33.6	304	24	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g		4824	38.25	-35.75	74	55.29	31.1	11.02	59.16	100	0	P	H
CH 01		4824	39.18	-34.82	74	56.22	31.1	11.02	59.16	100	0	P	V
2412MHz													
802.11g		4874	40.19	-33.81	74	57.25	31.05	11.06	59.17	100	0	P	H
		7311	43.8	-30.2	74	52.8	36.52	13.66	59.18	100	0	P	H
CH 06		4874	40.8	-33.2	74	57.86	31.05	11.06	59.17	100	0	P	V
2437MHz		7311	53.31	-20.69	74	62.31	36.52	13.66	59.18	100	297	P	V
		7311	43.34	-10.66	54	52.34	36.52	13.66	59.18	100	297	A	V
802.11g		4924	39.18	-34.82	74	56.13	31.14	11.09	59.18	100	0	P	H
CH 11		7386	43.81	-30.19	74	52.92	36.46	13.58	59.15	100	0	P	H
2462MHz		4924	38.91	-35.09	74	55.86	31.14	11.09	59.18	100	0	P	V
		7386	44.49	-29.51	74	53.6	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.695	57.12	-16.88	74	46.67	27.44	16.64	33.63	302	54	P	H
		2390	46.86	-7.14	54	36.41	27.44	16.64	33.63	302	54	A	H
	*	2412	106.5	-	-	96.08	27.38	16.66	33.62	302	54	P	H
	*	2412	99.23	-	-	88.81	27.38	16.66	33.62	302	54	A	H
		2389.8	55.01	-18.99	74	44.56	27.44	16.64	33.63	311	22	P	V
		2390	46.02	-7.98	54	35.57	27.44	16.64	33.63	311	22	A	V
	*	2412	101.67	-	-	91.25	27.38	16.66	33.62	311	22	P	V
	*	2412	94.18	-	-	83.76	27.38	16.66	33.62	311	22	A	V
802.11n HT20 CH 06 2437MHz		2347.28	53.16	-20.84	74	42.6	27.61	16.59	33.64	336	52	P	H
		2390	43.34	-10.66	54	32.89	27.44	16.64	33.63	336	52	A	H
	*	2437	108.93	-	-	98.52	27.33	16.69	33.61	336	52	P	H
	*	2437	101.26	-	-	90.85	27.33	16.69	33.61	336	52	A	H
		2488.48	52.91	-21.09	74	42.46	27.3	16.74	33.59	336	52	P	H
		2483.84	43.58	-10.42	54	33.14	27.3	16.74	33.6	336	52	A	H
		2341.68	52.83	-21.17	74	42.27	27.63	16.58	33.65	340	24	P	V
		2388.72	42.68	-11.32	54	32.22	27.45	16.64	33.63	340	24	A	V
	*	2437	104.84	-	-	94.43	27.33	16.69	33.61	340	24	P	V
	*	2437	96.77	-	-	86.36	27.33	16.69	33.61	340	24	A	V
		2483.76	52.53	-21.47	74	42.09	27.3	16.74	33.6	340	24	P	V
		2484.16	42.91	-11.09	54	32.47	27.3	16.74	33.6	340	24	A	V



WIFI Ant. 0+3	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 11 2462MHz	*	2462	106.77	-	-	96.35	27.3	16.72	33.6	343	53	P	H
	*	2462	99.19	-	-	88.77	27.3	16.72	33.6	343	53	A	H
		2483.52	54.95	-19.05	74	44.51	27.3	16.74	33.6	343	53	P	H
		2483.52	46.43	-7.57	54	35.99	27.3	16.74	33.6	343	53	A	H
	*	2462	103.84	-	-	93.42	27.3	16.72	33.6	304	24	P	V
	*	2462	95.91	-	-	85.49	27.3	16.72	33.6	304	24	A	V
		2484.08	52.63	-21.37	74	42.19	27.3	16.74	33.6	304	24	P	V
		2483.52	43.61	-10.39	54	33.17	27.3	16.74	33.6	304	24	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2386.16	60.34	-13.66	74	49.88	27.46	16.63	33.63	346	53	P	H
		2388.72	51.14	-2.86	54	40.68	27.45	16.64	33.63	346	53	A	H
	*	2422	102.46	-	-	92.05	27.36	16.67	33.62	346	53	P	H
	*	2422	94.44	-	-	84.03	27.36	16.67	33.62	346	53	A	H
		2489.12	53.44	-20.56	74	42.99	27.3	16.74	33.59	346	53	P	H
		2485.04	43.53	-10.47	54	33.09	27.3	16.74	33.6	346	53	A	H
		2385.84	56.85	-17.15	74	46.39	27.46	16.63	33.63	310	24	P	V
		2385.68	47.04	-6.96	54	36.58	27.46	16.63	33.63	310	24	A	V
	*	2422	96.89	-	-	86.48	27.36	16.67	33.62	310	24	P	V
	*	2422	89.21	-	-	78.8	27.36	16.67	33.62	310	24	A	V
		2485.68	52.62	-21.38	74	42.18	27.3	16.74	33.6	310	24	P	V
		2494.4	43.43	-10.57	54	32.97	27.3	16.75	33.59	310	24	A	V
802.11n HT40 CH 06 2437MHz		2384.72	55.19	-18.81	74	44.73	27.46	16.63	33.63	336	52	P	H
		2388.4	44.87	-9.13	54	34.41	27.45	16.64	33.63	336	52	A	H
	*	2437	106.17	-	-	95.76	27.33	16.69	33.61	336	52	P	H
	*	2437	98.1	-	-	87.69	27.33	16.69	33.61	336	52	A	H
		2483.84	57.82	-16.18	74	47.38	27.3	16.74	33.6	336	52	P	H
		2483.52	48.63	-5.37	54	38.19	27.3	16.74	33.6	336	52	A	H
		2389.84	53.84	-20.16	74	43.39	27.44	16.64	33.63	338	24	P	V
		2389.84	45.18	-8.82	54	34.73	27.44	16.64	33.63	338	24	A	V
	*	2437	101.19	-	-	90.78	27.33	16.69	33.61	338	24	P	V
	*	2437	93.28	-	-	82.87	27.33	16.69	33.61	338	24	A	V
		2487.36	53.02	-20.98	74	42.57	27.3	16.74	33.59	338	24	P	V
		2483.52	44.26	-9.74	54	33.82	27.3	16.74	33.6	338	24	A	V



WIFI Ant. 0+3	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2314	53.25	-20.75	74	42.62	27.74	16.55	33.66	299	68	P	H
		2389.84	43.84	-10.16	54	33.39	27.44	16.64	33.63	299	68	A	H
	*	2452	106.66	-	-	96.27	27.3	16.7	33.61	299	68	P	H
	*	2452	98.14	-	-	87.75	27.3	16.7	33.61	299	68	A	H
		2486.16	57.74	-16.26	74	47.29	27.3	16.74	33.59	299	68	P	H
		2486.88	48.51	-5.49	54	38.06	27.3	16.74	33.59	299	68	P	H
		2388.56	52.92	-21.08	74	42.46	27.45	16.64	33.63	298	84	P	V
		2343.92	43.55	-10.45	54	32.99	27.62	16.59	33.65	298	84	A	V
	*	2452	103.39	-	-	93	27.3	16.7	33.61	298	84	P	V
	*	2452	95.17	-	-	84.78	27.3	16.7	33.61	298	84	A	V
		2486.64	54.75	-19.25	74	44.3	27.3	16.74	33.59	298	84	P	V
		2487.04	46.62	-7.38	54	36.17	27.3	16.74	33.59	298	84	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+3		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		94.26	37.34	-6.16	43.5	53.29	15.06	1.32	32.33	100	0	P	H
		99.93	36.98	-6.52	43.5	52.29	15.67	1.34	32.32	-	-	P	H
		154.74	32.82	-10.68	43.5	46.78	16.61	1.71	32.28	-	-	P	H
		884.5	32.17	-13.83	46	30.36	29.09	4.15	31.43	-	-	P	H
		951	33.6	-12.4	46	29.55	30.62	4.31	30.88	-	-	P	H
		982.5	34.13	-19.87	54	29.5	30.81	4.41	30.59	-	-	P	H
		53.49	31.72	-8.28	40	50.49	12.63	0.97	32.37	100	0	P	V
		90.75	32.2	-11.3	43.5	48.5	14.73	1.3	32.33	-	-	P	V
		106.95	29.47	-14.03	43.5	43.81	16.58	1.39	32.31	-	-	P	V
		857.9	31.8	-14.2	46	30.01	29.27	4.09	31.57	-	-	P	V
		944	33.96	-12.04	46	30.41	30.2	4.3	30.95	-	-	P	V
		993	34.06	-19.94	54	29.59	30.53	4.43	30.49	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



<Gaming Mode>

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2329.425	52.74	-21.26	74	42.14	27.68	16.57	33.65	332	41	P	H
		2386.965	42.32	-11.68	54	31.86	27.45	16.64	33.63	332	41	A	H
	*	2412	107.51	-	-	97.09	27.38	16.66	33.62	332	41	P	H
	*	2412	104.42	-	-	94	27.38	16.66	33.62	332	41	A	H
		2318.925	52.24	-21.76	74	41.62	27.72	16.56	33.66	400	279	P	V
		2387.07	41.65	-12.35	54	31.19	27.45	16.64	33.63	400	279	A	V
	*	2412	105.37	-	-	94.95	27.38	16.66	33.62	400	279	P	V
	*	2412	102.26	-	-	91.84	27.38	16.66	33.62	400	279	A	V
802.11b CH 06 2437MHz		2326.8	52.67	-21.33	74	42.06	27.69	16.57	33.65	327	38	P	H
		2390	42	-12	54	31.55	27.44	16.64	33.63	327	38	A	H
	*	2437	107.07	-	-	96.66	27.33	16.69	33.61	327	38	P	H
	*	2437	103.68	-	-	93.27	27.33	16.69	33.61	327	38	A	H
		2496.88	52.39	-21.61	74	41.93	27.3	16.75	33.59	327	38	P	H
		2483.6	41.88	-12.12	54	31.44	27.3	16.74	33.6	327	38	A	H
		2327.92	51.98	-22.02	74	41.37	27.69	16.57	33.65	386	279	P	V
		2388.72	41.58	-12.42	54	31.12	27.45	16.64	33.63	386	279	A	V
	*	2437	105.11	-	-	94.7	27.33	16.69	33.61	386	279	P	V
	*	2437	101.86	-	-	91.45	27.33	16.69	33.61	386	279	A	V
		2497.28	51.98	-22.02	74	41.52	27.3	16.75	33.59	386	279	P	V
		2483.52	41.66	-12.34	54	31.22	27.3	16.74	33.6	386	279	A	V



WIFI Ant. 0+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 11 2462MHz	*	2462	106.38	-	-	95.96	27.3	16.72	33.6	319	41	P	H
	*	2462	103.17	-	-	92.75	27.3	16.72	33.6	319	41	A	H
		2486.8	52.69	-21.31	74	42.24	27.3	16.74	33.59	319	41	P	H
		2486.52	42.34	-11.66	54	31.89	27.3	16.74	33.59	319	41	A	H
	*	2462	104.08	-	-	93.66	27.3	16.72	33.6	381	281	P	V
	*	2462	100.85	-	-	90.43	27.3	16.72	33.6	381	281	P	V
		2499	52.01	-21.99	74	41.55	27.3	16.75	33.59	381	281	P	V
		2486.08	41.87	-12.13	54	31.43	27.3	16.74	33.6	381	281	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		4824	38.01	-35.99	74	55.05	31.1	11.02	59.16	100	0	P	H
		4824	37.93	-36.07	74	54.97	31.1	11.02	59.16	100	0	P	V
802.11b CH 06 2437MHz		4874	39.54	-34.46	74	56.6	31.05	11.06	59.17	100	0	P	H
		7311	53.42	-20.58	74	62.42	36.52	13.66	59.18	189	307	P	H
		7311	48.75	-5.25	54	57.75	36.52	13.66	59.18	189	307	A	H
		4874	42.8	-31.2	74	59.86	31.05	11.06	59.17	100	0	P	V
		7311	52.82	-21.18	74	61.82	36.52	13.66	59.18	300	22	P	V
		7311	47.62	-6.38	54	56.62	36.52	13.66	59.18	300	22	A	V
802.11b CH 11 2462MHz		4924	39.15	-34.85	74	56.1	31.14	11.09	59.18	100	0	P	H
		7386	51.1	-22.9	74	60.21	36.46	13.58	59.15	200	306	P	H
		7386	45.49	-8.51	54	54.6	36.46	13.58	59.15	200	306	A	H
		4924	38.78	-35.22	74	55.73	31.14	11.09	59.18	100	0	P	V
		7386	46.98	-27.02	74	56.09	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		2390	57.72	-16.28	74	47.27	27.44	16.64	33.63	253	40	P	H
		2390	46.54	-7.46	54	36.09	27.44	16.64	33.63	253	40	A	H
	*	2412	107.88	-	-	97.46	27.38	16.66	33.62	253	40	P	H
	*	2412	101.06	-	-	90.64	27.38	16.66	33.62	253	40	A	H
		2390	55.91	-18.09	74	45.46	27.44	16.64	33.63	385	62	P	V
		2389.695	45.56	-8.44	54	35.11	27.44	16.64	33.63	385	62	A	V
	*	2412	108.68	-	-	98.26	27.38	16.66	33.62	385	62	P	V
	*	2412	100.98	-	-	90.56	27.38	16.66	33.62	385	62	A	V
802.11g CH 06 2437MHz		2386.32	53.45	-20.55	74	43	27.45	16.63	33.63	227	46	P	H
		2390	42.94	-11.06	54	32.49	27.44	16.64	33.63	227	46	A	H
	*	2437	107.86	-	-	97.45	27.33	16.69	33.61	227	46	P	H
	*	2437	100.85	-	-	90.44	27.33	16.69	33.61	227	46	A	H
		2483.76	52.4	-21.6	74	41.96	27.3	16.74	33.6	227	46	P	H
		2483.52	42.69	-11.31	54	32.25	27.3	16.74	33.6	227	46	A	H
		2334.32	52.48	-21.52	74	41.9	27.66	16.57	33.65	377	56	P	V
		2390	42.11	-11.89	54	31.66	27.44	16.64	33.63	377	56	A	V
	*	2437	107.5	-	-	97.09	27.33	16.69	33.61	377	56	P	V
	*	2437	99.27	-	-	88.86	27.33	16.69	33.61	377	56	A	V
		2484.16	52.67	-21.33	74	42.23	27.3	16.74	33.6	377	56	P	V
		2484	41.93	-12.07	54	31.49	27.3	16.74	33.6	377	56	A	V



WIFI Ant. 0+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 11 2462MHz	*	2462	107.86	-	-	97.44	27.3	16.72	33.6	257	46	P	H
	*	2462	100.38	-	-	89.96	27.3	16.72	33.6	257	46	A	H
		2486.84	54.4	-19.6	74	43.95	27.3	16.74	33.59	257	46	P	H
		2483.52	44.36	-9.64	54	33.92	27.3	16.74	33.6	257	46	A	H
	*	2462	106.24	-	-	95.82	27.3	16.72	33.6	400	55	P	V
	*	2462	98.51	-	-	88.09	27.3	16.72	33.6	400	55	A	V
		2483.76	53.84	-20.16	74	43.4	27.3	16.74	33.6	400	55	P	V
		2483.56	43.48	-10.52	54	33.04	27.3	16.74	33.6	400	55	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11g CH 01 2412MHz		4824	38.02	-35.98	74	55.06	31.1	11.02	59.16	100	0	P	H
		4824	38.64	-35.36	74	55.68	31.1	11.02	59.16	100	0	P	V
802.11g CH 06 2437MHz		4874	37.85	-36.15	74	54.91	31.05	11.06	59.17	100	0	P	H
		7311	54.05	-19.95	74	63.05	36.52	13.66	59.18	200	307	P	H
		7311	44.63	-9.37	54	53.63	36.52	13.66	59.18	200	307	A	H
		4874	41.3	-32.7	74	58.36	31.05	11.06	59.17	100	0	P	V
		7311	54.07	-19.93	74	63.07	36.52	13.66	59.18	300	23	P	V
		7311	44.64	-9.36	54	53.64	36.52	13.66	59.18	300	23	A	V
802.11g CH 11 2462MHz		4924	39.48	-34.52	74	56.43	31.14	11.09	59.18	100	0	P	H
		7386	48.73	-25.27	74	57.84	36.46	13.58	59.15	100	0	P	H
		4924	41.4	-32.6	74	58.35	31.14	11.09	59.18	100	0	P	V
		7386	45.86	-28.14	74	54.97	36.46	13.58	59.15	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.485	60.97	-13.03	74	50.52	27.44	16.64	33.63	330	41	P	H
		2390	49.56	-4.44	54	39.11	27.44	16.64	33.63	330	41	A	H
	*	2412	109.95	-	-	99.53	27.38	16.66	33.62	330	41	P	H
	*	2412	102.14	-	-	91.72	27.38	16.66	33.62	330	41	A	H
		2390	57.98	-16.02	74	47.53	27.44	16.64	33.63	400	278	P	V
		2390	48.3	-5.7	54	37.85	27.44	16.64	33.63	400	278	A	V
	*	2412	107.63	-	-	97.21	27.38	16.66	33.62	400	278	P	V
	*	2412	99.84	-	-	89.42	27.38	16.66	33.62	400	278	A	V
802.11n HT20 CH 06 2437MHz		2386.64	52.59	-21.41	74	42.14	27.45	16.63	33.63	327	39	P	H
		2390	43.69	-10.31	54	33.24	27.44	16.64	33.63	327	39	A	H
	*	2437	109.61	-	-	99.2	27.33	16.69	33.61	327	39	P	H
	*	2437	101.13	-	-	90.72	27.33	16.69	33.61	327	39	A	H
		2484.08	52.41	-21.59	74	41.97	27.3	16.74	33.6	327	39	P	H
		2483.84	43.19	-10.81	54	32.75	27.3	16.74	33.6	327	39	A	H
		2340.72	52.96	-21.04	74	42.39	27.64	16.58	33.65	386	282	P	V
		2389.36	42.67	-11.33	54	32.22	27.44	16.64	33.63	386	282	A	V
	*	2437	106.52	-	-	96.11	27.33	16.69	33.61	386	282	P	V
	*	2437	99.15	-	-	88.74	27.33	16.69	33.61	386	282	A	V
		2487.52	52.3	-21.7	74	41.85	27.3	16.74	33.59	386	282	P	V
		2483.84	43.11	-10.89	54	32.67	27.3	16.74	33.6	386	282	A	V



WIFI Ant. 0+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 11 2462MHz	*	2462	108.81	-	-	98.39	27.3	16.72	33.6	320	42	P	H
	*	2462	100.86	-	-	90.44	27.3	16.72	33.6	320	42	A	H
		2483.8	57.64	-16.36	74	47.2	27.3	16.74	33.6	320	42	P	H
		2483.56	48.65	-5.35	54	38.21	27.3	16.74	33.6	320	42	A	H
	*	2462	105.75	-	-	95.33	27.3	16.72	33.6	382	282	P	V
	*	2462	98.43	-	-	88.01	27.3	16.72	33.6	382	282	A	V
		2483.76	55.96	-18.04	74	45.52	27.3	16.74	33.6	382	282	P	V
		2483.52	46.82	-7.18	54	36.38	27.3	16.74	33.6	382	282	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	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preampl	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		4824	36.57	-37.43	74	53.61	31.1	11.02	59.16	100	0	P	H
		4824	36.96	-37.04	74	54	31.1	11.02	59.16	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	37.04	-36.96	74	54.1	31.05	11.06	59.17	100	0	P	H
		7311	57.62	-16.38	74	66.62	36.52	13.66	59.18	200	306	P	H
		7311	46.32	-7.68	54	55.32	36.52	13.66	59.18	200	306	A	H
		4874	40.04	-33.96	74	57.1	31.05	11.06	59.17	100	0	P	V
		7311	57.52	-16.48	74	66.52	36.52	13.66	59.18	300	23	P	V
		7311	45.92	-8.08	54	54.92	36.52	13.66	59.18	300	23	A	V
802.11n HT20 CH 11 2462MHz		4924	38.04	-35.96	74	54.99	31.14	11.09	59.18	100	0	P	H
		7386	47.23	-26.77	74	56.34	36.46	13.58	59.15	100	0	P	H
		4924	37.45	-36.55	74	54.4	31.14	11.09	59.18	100	0	P	V
		7386	48.84	-25.16	74	57.95	36.46	13.58	59.15	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 HT40 (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.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT40 CH 03 2422MHz		2388.4	58.75	-15.25	74	48.29	27.45	16.64	33.63	120	23	P	H
		2389.2	50.25	-3.75	54	39.8	27.44	16.64	33.63	120	23	A	H
	*	2422	101.68	-	-	91.27	27.36	16.67	33.62	120	23	P	H
	*	2422	94.22	-	-	83.81	27.36	16.67	33.62	120	23	A	H
		2486.48	53.15	-20.85	74	42.7	27.3	16.74	33.59	120	23	P	H
		2484.24	43.59	-10.41	54	33.15	27.3	16.74	33.6	120	23	A	H
		2387.76	57.15	-16.85	74	46.69	27.45	16.64	33.63	183	323	P	V
		2390	48.29	-5.71	54	37.84	27.44	16.64	33.63	183	323	A	V
	*	2422	100.64	-	-	90.23	27.36	16.67	33.62	183	323	P	V
	*	2422	92.67	-	-	82.26	27.36	16.67	33.62	183	323	A	V
		2485.36	52.95	-21.05	74	42.51	27.3	16.74	33.6	183	323	P	V
		2490.64	43.54	-10.46	54	33.08	27.3	16.75	33.59	183	323	A	V
802.11n HT40 CH 06 2437MHz		2389.52	62.2	-11.8	74	51.75	27.44	16.64	33.63	138	25	P	H
		2389.52	51.71	-2.29	54	41.26	27.44	16.64	33.63	138	25	A	H
	*	2437	105.23	-	-	94.82	27.33	16.69	33.61	138	25	P	H
	*	2437	96.98	-	-	86.57	27.33	16.69	33.61	138	25	A	H
		2483.52	58.02	-15.98	74	47.58	27.3	16.74	33.6	138	25	P	H
		2483.52	48.96	-5.04	54	38.52	27.3	16.74	33.6	138	25	A	H
		2389.2	59.23	-14.77	74	48.78	27.44	16.64	33.63	207	323	P	V
		2389.68	48.71	-5.29	54	38.26	27.44	16.64	33.63	207	323	A	V
	*	2437	102.56	-	-	92.15	27.33	16.69	33.61	207	323	P	V
	*	2437	94.3	-	-	83.89	27.33	16.69	33.61	207	323	A	V
		2483.6	58.24	-15.76	74	47.8	27.3	16.74	33.6	207	323	P	V
		2483.76	47.54	-6.46	54	37.1	27.3	16.74	33.6	207	323	A	V



WIFI Ant. 0+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 09 2452MHz		2388.4	52.75	-21.25	74	42.29	27.45	16.64	33.63	100	16	P	H
		2389.52	43.55	-10.45	54	33.1	27.44	16.64	33.63	100	16	A	H
	*	2452	103.66	-	-	93.27	27.3	16.7	33.61	100	16	P	H
	*	2452	95.99	-	-	85.6	27.3	16.7	33.61	100	16	A	H
		2484.08	59.49	-14.51	74	49.05	27.3	16.74	33.6	100	16	P	H
		2483.52	50.84	-3.16	54	40.4	27.3	16.74	33.6	100	16	A	H
		2388.72	53.27	-20.73	74	42.81	27.45	16.64	33.63	250	280	P	V
		2390	43.52	-10.48	54	33.07	27.44	16.64	33.63	250	280	A	V
	*	2452	102.63	-	-	92.24	27.3	16.7	33.61	250	280	P	V
	*	2452	94.46	-	-	84.07	27.3	16.7	33.61	250	280	A	V
		2484	58.24	-15.76	74	47.8	27.3	16.74	33.6	250	280	P	V
		2483.52	48.39	-5.61	54	37.95	27.3	16.74	33.6	250	280	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		4844	39.01	-34.99	74	56.05	31.1	11.03	59.17	100	0	P	H
HT40		7266	41.42	-32.58	74	50.45	36.43	13.73	59.19	100	0	P	H
CH 03		4844	36.8	-37.2	74	53.84	31.1	11.03	59.17	100	0	P	V
2422MHz		7266	41.97	-32.03	74	51	36.43	13.73	59.19	100	0	P	V
802.11n		4874	36.68	-37.32	74	53.74	31.05	11.06	59.17	100	0	P	H
HT40		7311	41.14	-32.86	74	50.14	36.52	13.66	59.18	100	0	P	H
CH 06		4874	37.28	-36.72	74	54.34	31.05	11.06	59.17	100	0	P	V
2437MHz		7311	40.96	-33.04	74	49.96	36.52	13.66	59.18	100	0	P	V
802.11n		4904	37.58	-36.42	74	54.67	31.02	11.07	59.18	100	0	P	H
HT40		7356	41.45	-32.55	74	50.42	36.58	13.61	59.16	100	0	P	H
CH 09		4904	37.31	-36.69	74	54.4	31.02	11.07	59.18	100	0	P	V
2452MHz		7356	41.07	-32.93	74	50.04	36.58	13.61	59.16	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		93.18	35.07	-8.43	43.5	51.13	14.96	1.31	32.33	-	-	P	H
		99.66	37.09	-6.41	43.5	52.43	15.64	1.34	32.32	100	0	P	H
		154.47	32.77	-10.73	43.5	46.73	16.62	1.7	32.28	-	-	P	H
		855.8	33.05	-12.95	46	31.32	29.23	4.08	31.58	-	-	P	H
		946.8	34.31	-11.69	46	30.55	30.38	4.3	30.92	-	-	P	H
		970.6	34.78	-19.22	54	30.13	30.97	4.38	30.7	-	-	P	H
		53.49	31.4	-8.6	40	50.17	12.63	0.97	32.37	100	0	P	V
		91.02	32.11	-11.39	43.5	48.38	14.76	1.3	32.33	-	-	P	V
		166.35	30.39	-13.11	43.5	45.19	15.68	1.79	32.27	-	-	P	V
		881.7	32.29	-13.71	46	30.47	29.12	4.15	31.45	-	-	P	V
		931.4	32.8	-13.2	46	30.06	29.54	4.26	31.06	-	-	P	V
		972.7	35.01	-18.99	54	30.36	30.95	4.38	30.68	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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

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 :	Hao Hsu, FU Chen, Ken Wu, Troye Hsieh	Temperature :	23.2~24.2°C
		Relative Humidity :	53~60%

Note symbol

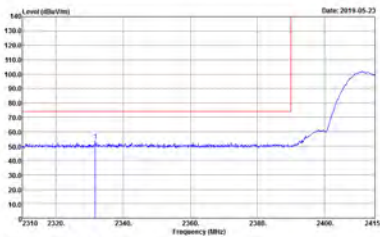
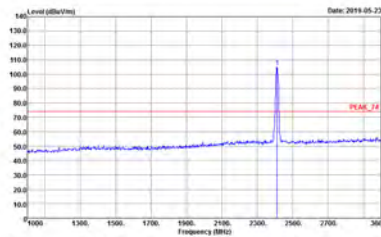
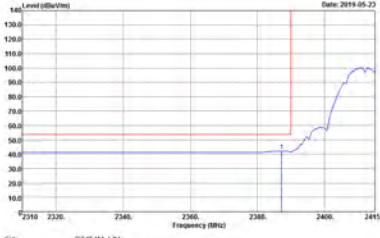
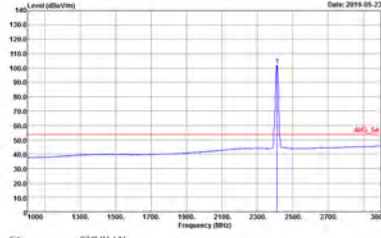
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-R	High channel location

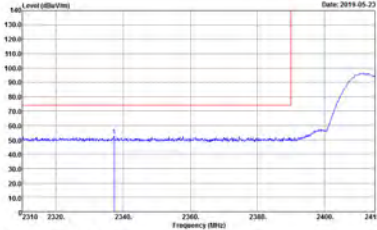
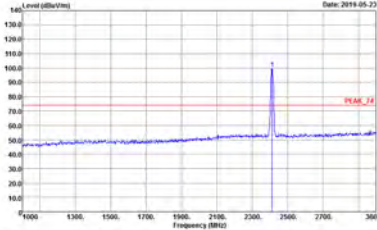
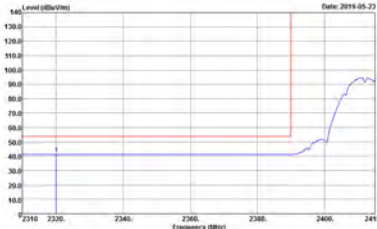
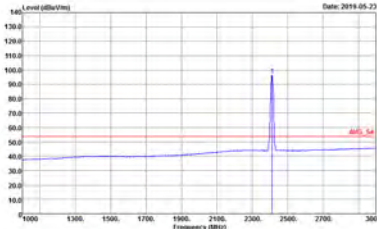


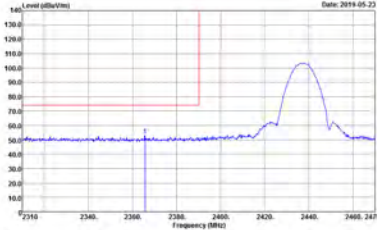
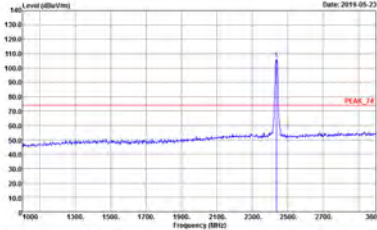
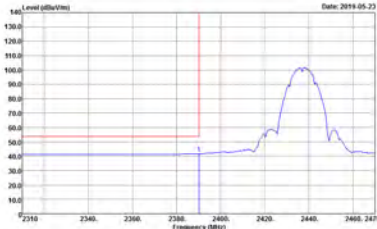
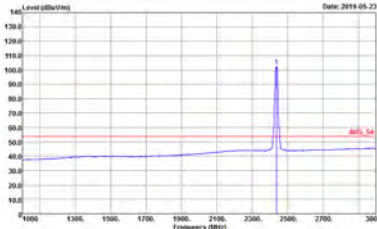
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2.4GHz 2400~2483.5MHz

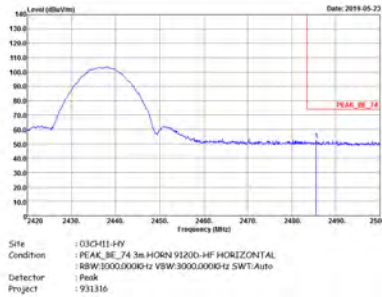
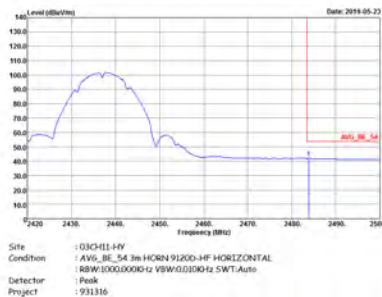
WIFI 802.11b (Band Edge @ 3m)

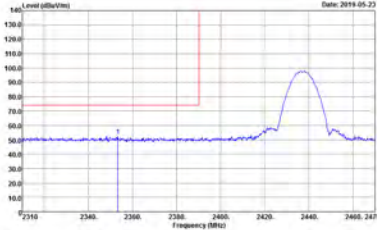
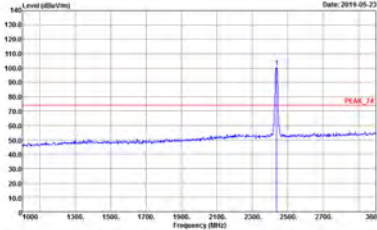
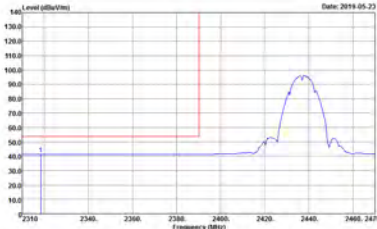
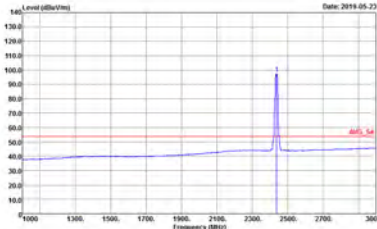
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_36_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
Avg.	 Site : 03CH11-HY Condition : AVG_36_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

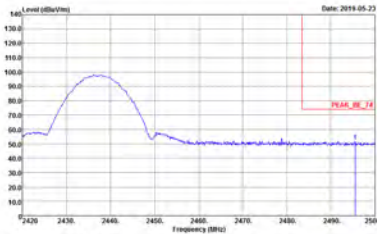
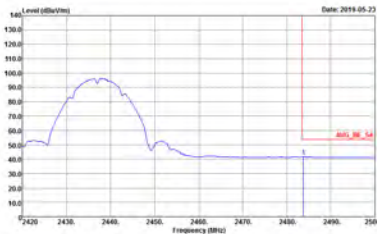
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316

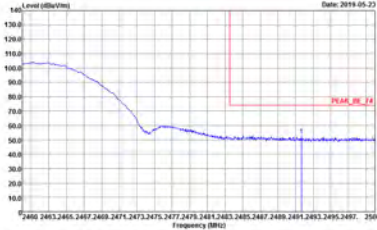
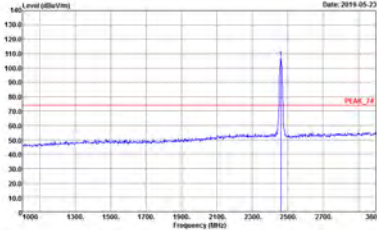
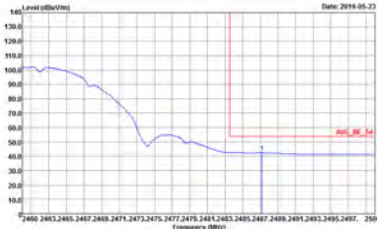
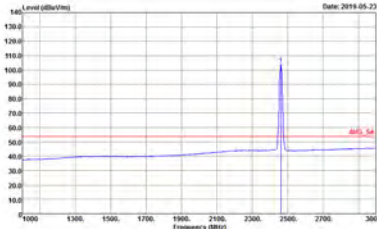


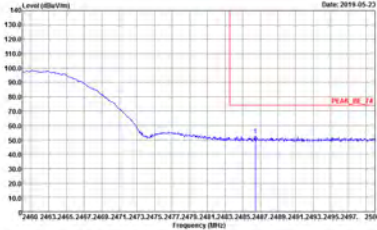
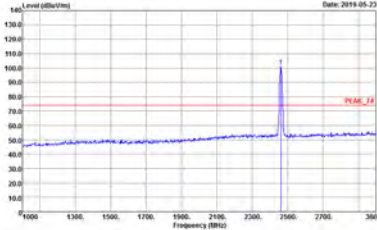
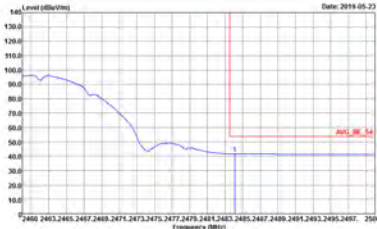
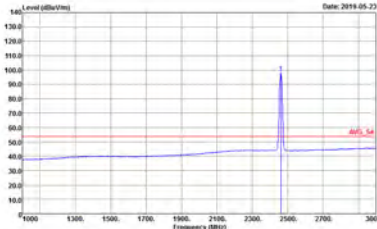
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
3	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

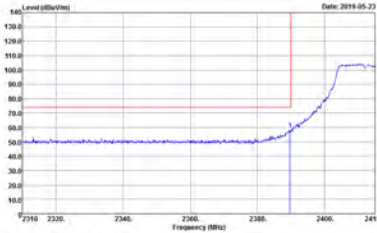
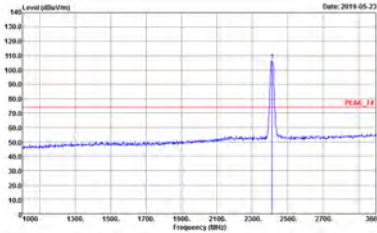
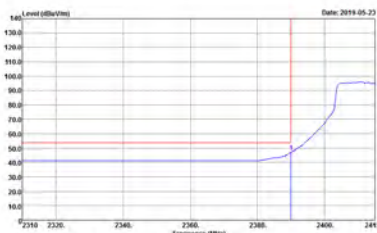
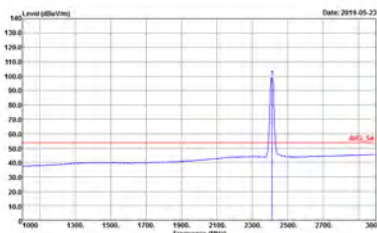
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
3	Vertical	Fundamental
Peak	 Site : 03CH11-4Y Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:3000.0000 Hz VSW:3000.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left blank
Avg.	 Site : 03CH11-4Y Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:3000.0000 Hz VSW:3000.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left blank

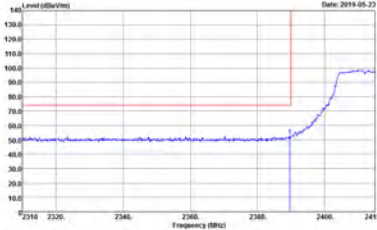
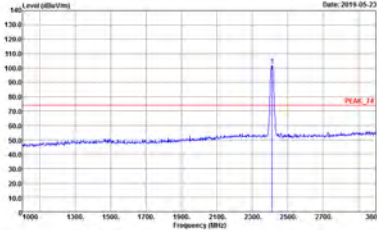
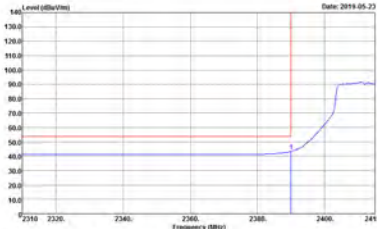
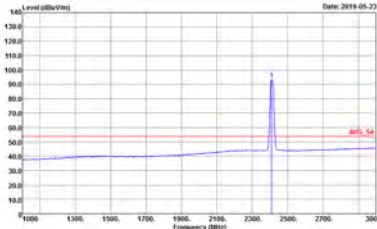


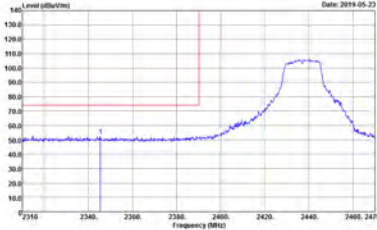
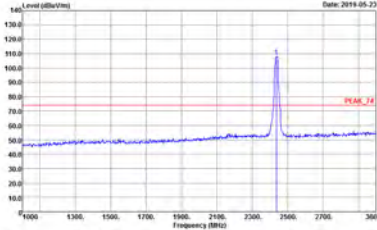
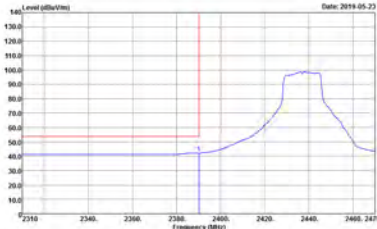
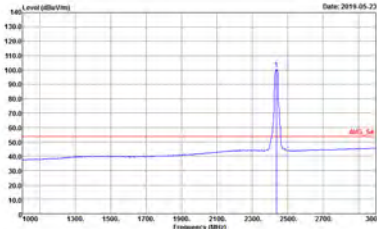
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

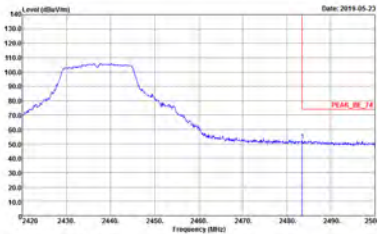
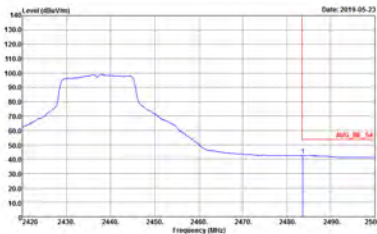
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

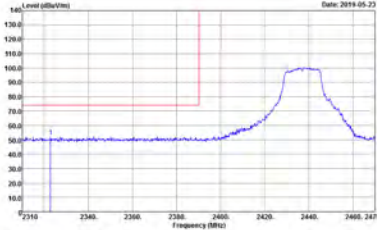
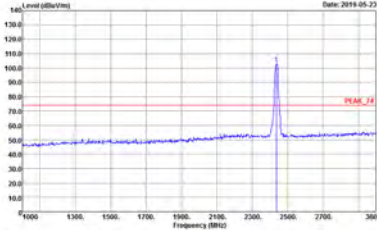
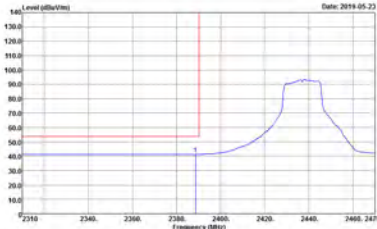
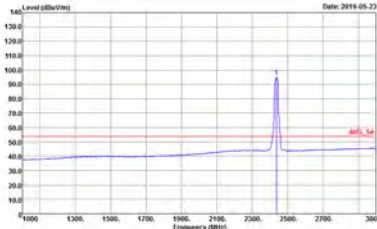
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

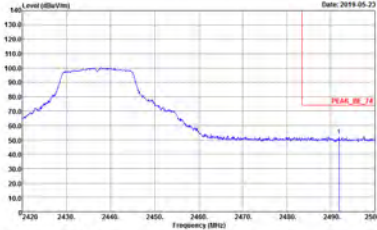
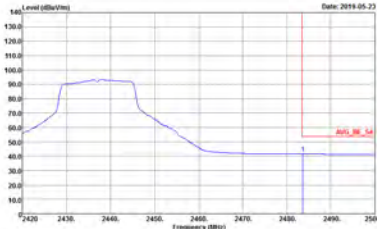
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_8E_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_8E_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_8E_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_8E_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
Avg.		

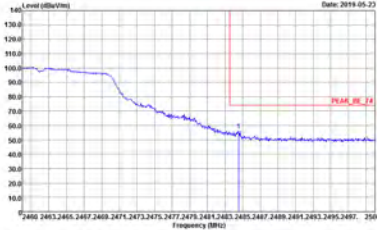
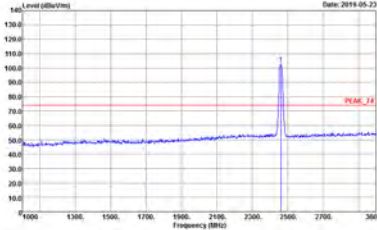
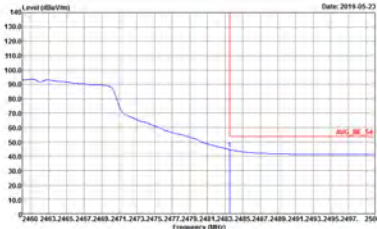
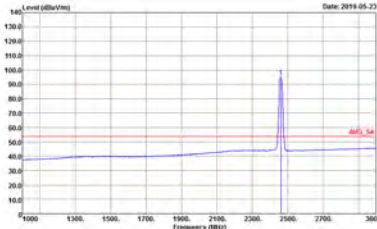
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-4RY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:3000.000KHz VSW:3000.000Hz SWT:Auto Detector : Peak Project : 931316	Left blank
Avg.	 Site : 03CH11-4RY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:3000.000KHz VSW:3000.000Hz SWT:Auto Detector : Peak Project : 931316	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

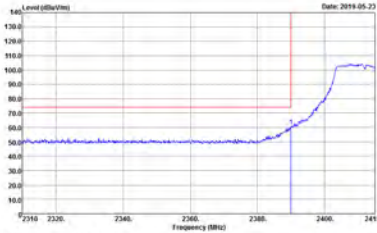
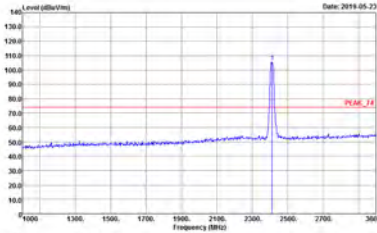
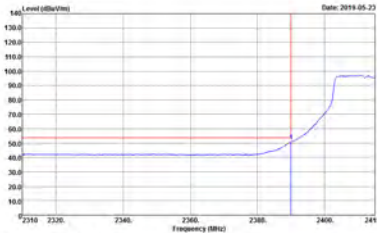
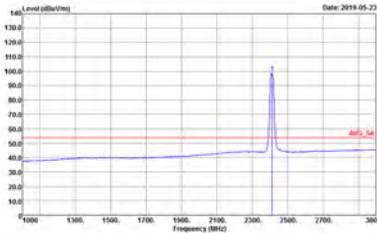
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
3	Vertical	Fundamental
Peak	 Site : 03CH11-4Y Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:3000.0000 Hz VSW:3000.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left Blank
Avg.	 Site : 03CH11-4Y Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:3000.0000 Hz VSW:3000.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left Blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
3	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

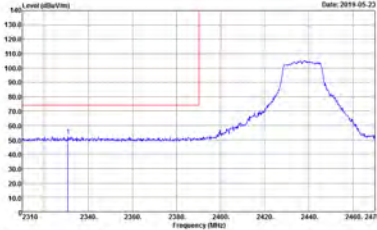
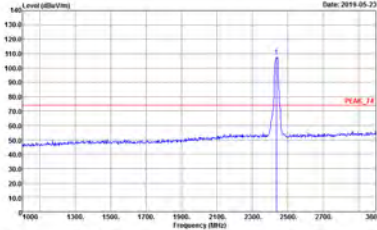
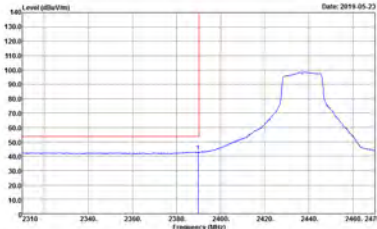
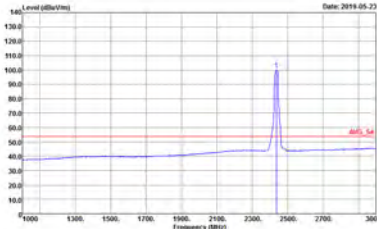
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:0.0100Hz SWT:Auto Detector : Peak Project : 931316

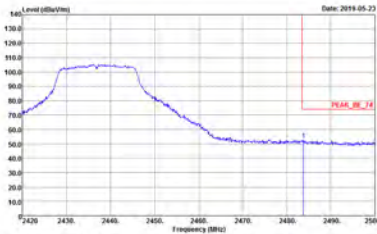
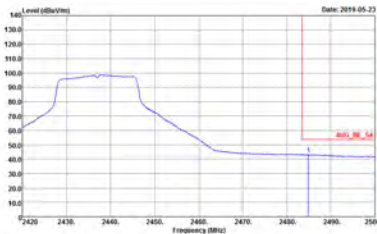
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

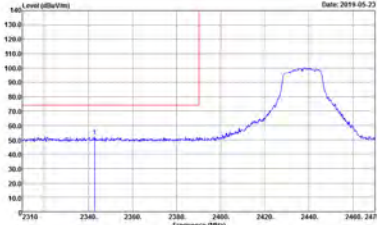
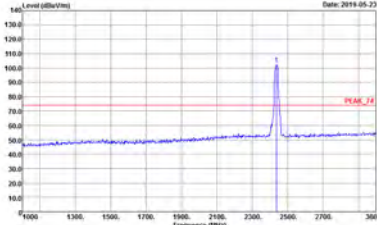
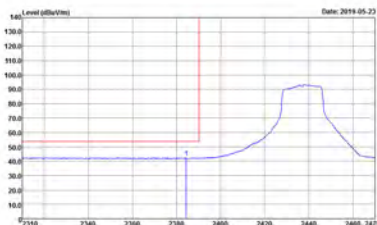
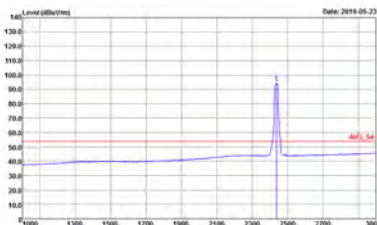
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_3E_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_3E_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316

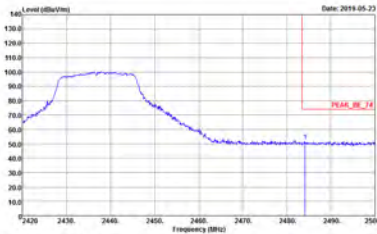
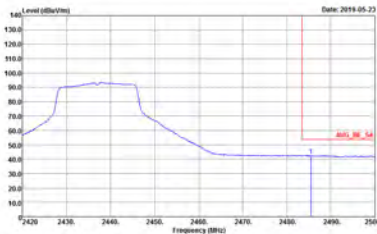


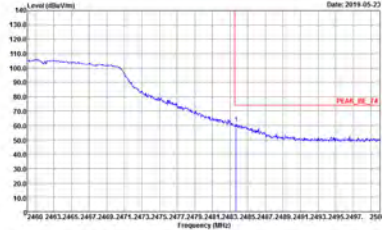
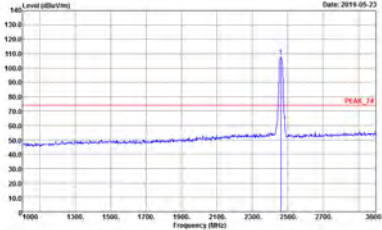
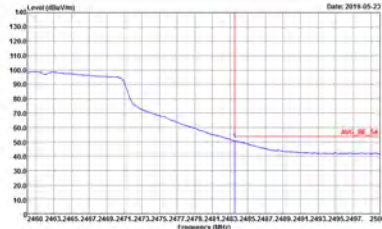
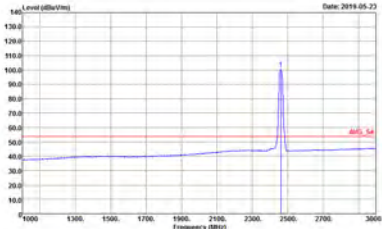
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
3	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_8E_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	Site : 03CH11-HY Condition : AVG_8E_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316	Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_8E_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_8E_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-4RY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000 Hz VSW:3000.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left blank
Avg.	 Site : 03CH11-4RY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000 Hz VSW:10000 Hz SWT:Auto Detector : Peak Project : 931316	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
3	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:3000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:3000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:3000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
3	Vertical	Fundamental
Peak	 Site : 03CH11-4Y Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:3000.0000 Hz VSW:3000.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left Blank
Avg.	 Site : 03CH11-4Y Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:3000.0000 Hz VSW:1.0000 Hz SWT:Auto Detector : Peak Project : 931316	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
3	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:3000.0000Hz SWT:Auto Detector : Peak Project : 931316
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316	 Site : 03CH11-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.0000Hz VSW:10000Hz SWT:Auto Detector : Peak Project : 931316