



FCC RADIO TEST REPORT

FCC ID : 2ABVH-INARI8B1
Equipment : Tablet
Brand Name : AAVA
Model Name : INARI8B-WIG-1
**Applicant : Aava Mobile Oy
NAHKATEHTAANKATU 2 90130 OULU FINLAND**
**Manufacturer : Aava Mobile Oy
NAHKATEHTAANKATU 2 90130 OULU FINLAND**
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jun. 06, 2018 and testing was started from Jun. 13, 2018 and completed on Aug. 24, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Joseph Lin

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



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.247(a)(2)	6dB Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.247(b)	Power Output Measurement	Pass	-
3.3	15.247(e)	Power Spectral Density	Pass	-
3.4	15.247(d)	Conducted Band Edges	Pass	-
		Conducted Spurious Emission	Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	Under limit 1.03 dB at 2390.000 MHz
3.6	15.207	AC Conducted Emission	Pass	Under limit 8.81 dB at 0.688 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Reviewed by: Wii Chang

Report Producer: Nancy Yang



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet
Brand Name	AAVA
Model Name	INARI8B-WIG-1
FCC ID	2ABVH-INARI8B1
EUT supports Radios application	NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE
HW Version	RU
SW Version	Windows 10
MFD	2018-04-26
EUT Stage	Identical Prototype

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

Specification of Accessories				
AC Adapter	Brand Name	PHIHONG	Model Name	AQ18A-59CFA
Battery	Brand Name	Aava	Model Name	AMME3735
USB Cable	Brand Name	PHIHONG	Model Name	UES-1001A160-R



1.2 Product Specification of Equipment Under Test

Standards-related Product Specification											
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz										
Maximum Output Power to antenna		<Ant 1> 802.11b : 15.97 dBm (0.0395 W) 802.11g : 18.79 dBm (0.0757 W) 802.11n HT20 : 18.62 dBm (0.0728 W) 802.11n HT40 : 16.91 dBm (0.0491 W) <Ant 2> 802.11b : 15.15 dBm (0.0327 W) 802.11g : 17.88 dBm (0.0614 W) 802.11n HT20 : 17.86 dBm (0.0611 W) 802.11n HT40 : 16.19 dBm (0.0416 W) MIMO <Ant. 1 + 2> 802.11b : 18.04 dBm (0.0637 W) 802.11g : 20.64 dBm (0.1159 W) 802.11n HT20 : 20.69 dBm (0.1172 W) 802.11n HT40 : 19.22 dBm (0.0836 W)									
99% Occupied Bandwidth		<Ant 1> 802.11b : 14.80MHz 802.11g : 16.70MHz 802.11n HT20 : 17.85MHz 802.11n HT40 : 36.40MHz <Ant 2> 802.11b : 14.10MHz 802.11g : 16.70MHz 802.11n HT20 : 17.85MHz 802.11n HT40 : 36.60MHz MIMO <Ant 1> 802.11b : 13.75MHz 802.11g : 16.65MHz 802.11n HT20 : 17.85MHz 802.11n HT40 : 36.40MHz MIMO <Ant 2> 802.11b : 13.65MHz 802.11g : 16.70MHz 802.11n HT20 : 17.80MHz 802.11n HT40 : 36.30MHz									
Antenna Type / Gain	<Ant. 1> : Ceramic Antenna with gain 2.70 dBi <Ant. 2> : Ceramic Antenna with gain 0.90 dBi										
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)										
Antenna Function for Transmitter	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 b/g/n</td> <td>V</td> <td>V</td> </tr> <tr> <td>802.11 b/g/n MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>			Ant. 1	Ant. 2	802.11 b/g/n	V	V	802.11 b/g/n MIMO	V	V
	Ant. 1	Ant. 2									
802.11 b/g/n	V	V									
802.11 b/g/n MIMO	V	V									

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



1.3 Modification of EUT

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

1.4 Testing Location

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

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		
Test Site No.	Sportun Site No.		
	TH05-HY	CO05-HY	03CH07-HY

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

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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 (Y Plane for Ant. 1, X Plane for Ant. 2 and Ant. 1+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

MIMO Antenna

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

Test Cases

AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + Bluetooth Link + USB Cable (Type C) + Adapter + GPS Rx + NFC On
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<Ant. 1>

802.11b mode						
Power vs. Channel			Average Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
				2M	5.5M	11M
Duty Cycle (%)		98.56		98.73	98.36	97.01
CH 01	2412	13.21	CH 06	13.10	13.17	13.23
CH 06	2437	13.24				
CH 11	2462	13.20				

802.11b mode						
Power vs. Channel			Peak Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
				2M	5.5M	11M
CH 01	2412	15.86	CH 06	15.86	15.95	15.96
CH 06	2437	15.97				
CH 11	2462	15.85				

802.11g mode								
Power vs. Channel			Average Power vs. Data Rate					
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)				
				9M	12M	18M	24M	36M
Duty Cycle (%)		97.14		97.16	97.20	95.05	94.29	92.78
CH 01	2412	13.23	CH 01	13.18	13.20	13.22	11.91	11.98
CH 06	2437	13.14						
CH 11	2462	13.22						
				48M	54M			

802.11g mode								
Power vs. Channel			Peak Power vs. Data Rate					
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)				
				9M	12M	18M	24M	36M
CH 01	2412	18.79	CH 01	18.65	18.61	18.60	18.68	18.75
CH 06	2437	18.54						
CH 11	2462	18.52						
				48M	54M			



802.11n HT20 mode										
Power vs. Channel			Average Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		97.94		97.03	94.29	93.98	91.58	90.67	89.71	87.30
CH 01	2412	13.14	CH 01	13.09	13.13	11.95	11.91	11.45	10.71	7.49
CH 06	2437	13.02								
CH 11	2462	13.07								

802.11n HT20 mode										
Power vs. Channel			Peak Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412	18.62	CH 01	18.50	18.61	18.61	18.61	18.61	18.60	18.61
CH 06	2437	18.45								
CH 11	2462	18.54								

802.11n HT40 mode										
Power vs. Channel			Average Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		96.91		94.57	91.21	89.04	86.79	84.27	80.95	80.00
CH 03	2422	13.17	CH 03	11.44	11.60	10.47	10.38	9.88	8.98	6.83
CH 06	2437	13.05								
CH 09	2452	13.12								

802.11n HT40 mode										
Power vs. Channel			Peak Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2422	16.91	CH 03	16.68	16.81	16.75	16.90	16.75	16.70	16.70
CH 06	2437	16.78								
CH 09	2452	14.58								



<Ant. 2>

Power vs. Channel			Average Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
				2M	5.5M	11M
Duty Cycle (%)		98.56		98.73	98.36	96.99
CH 01	2412	12.40	CH 01	12.28	12.37	12.38
CH 06	2437	12.34				
CH 11	2462	12.37				

Power vs. Channel			Peak Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
				2M	5.5M	11M
CH 01	2412	15.15	CH 01	15.14	15.14	15.14
CH 06	2437	15.02				
CH 11	2462	15.14				

Power vs. Channel			Average Power vs. Data Rate						
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)					
				9M	12M	18M	24M	36M	48M
Duty Cycle (%)		97.14		97.16	97.20	95.89	94.29	91.84	90.67
CH 01	2412	12.38	CH 01	12.24	12.17	12.23	11.01	10.92	10.51
CH 06	2437	12.27							
CH 11	2462	12.30							

Power vs. Channel			Peak Power vs. Data Rate						
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)					
				9M	12M	18M	24M	36M	48M
CH 01	2412	17.88	CH 01	17.70	17.74	17.70	17.70	17.75	17.75
CH 06	2437	17.33							
CH 11	2462	17.55							



802.11n HT20 mode										
Power vs. Channel			Average Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		97.94		97.00	95.65	94.03	92.47	89.33	88.24	88.19
CH 01	2412	12.33	CH 01	12.11	12.09	10.88	10.90	10.97	9.75	7.00
CH 06	2437	12.15								
CH 11	2462	12.20								

802.11n HT20 mode										
Power vs. Channel			Peak Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 01	2412	17.86	CH 01	17.80	17.76	17.74	17.81	17.81	17.74	17.85
CH 06	2437	17.33								
CH 11	2462	17.66								

802.11n HT40 mode										
Power vs. Channel			Average Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Duty Cycle (%)		95.92		93.80	91.21	90.41	87.04	83.33	82.93	80.77
CH 03	2422	12.27	CH 03	10.64	10.81	9.49	9.15	8.97	8.14	6.45
CH 06	2437	12.03								
CH 09	2452	12.10								

802.11n HT40 mode										
Power vs. Channel			Peak Power vs. Data Rate							
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index						
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
CH 03	2422	16.19	CH 03	16.07	16.18	16.15	16.07	16.05	16.10	16.16
CH 06	2437	15.74								
CH 09	2452	16.11								



MIMO<Ant. 1 + 2>

Power vs. Channel			Average Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
				2M	5.5M	11M
CH 01	2412	15.27	CH 01	15.22	15.26	15.26
CH 06	2437	15.16				
CH 11	2462	15.21				

802.11b mode						
Power vs. Channel			Peak Power vs. Data Rate			
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)		
				2M	5.5M	11M
CH 01	2412	18.04	CH 01	17.96	18.00	18.00
CH 06	2437	17.81				
CH 11	2462	17.90				

802.11g mode								
Power vs. Channel			Average Power vs. Data Rate					
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)				
				9M	12M	18M	24M	36M
CH 01	2412	15.35	CH 01	15.25	14.68	14.69	13.64	13.72
CH 06	2437	15.26					13.24	12.64
CH 11	2462	15.33						
802.11g mode								
Power vs. Channel			Peak Power vs. Data Rate					
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)				
				9M	12M	18M	24M	36M

802.11g mode							
Power vs. Channel			Peak Power vs. Data Rate				
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)			
				9M	12M	18M	24M
CH 01	2412	20.64	CH 01	20.55	20.22	20.20	20.49
CH 06	2437	20.31					20.55
CH 11	2462	20.59					20.50
802.11g mode							
Power vs. Channel			Peak Power vs. Data Rate				
Channel	Frequency (MHz)	Data Rate (bps)	Channel	Data Rate (bps)			
				9M	12M	18M	24M



802.11n HT20 mode								
Power vs. Channel			Average Power vs. Data Rate					
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index				
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5
CH 01	2412	15.27	CH 10	14.63	14.62	13.89	13.67	13.38
CH 06	2437	15.07						12.73
CH 11	2462	15.15						9.51

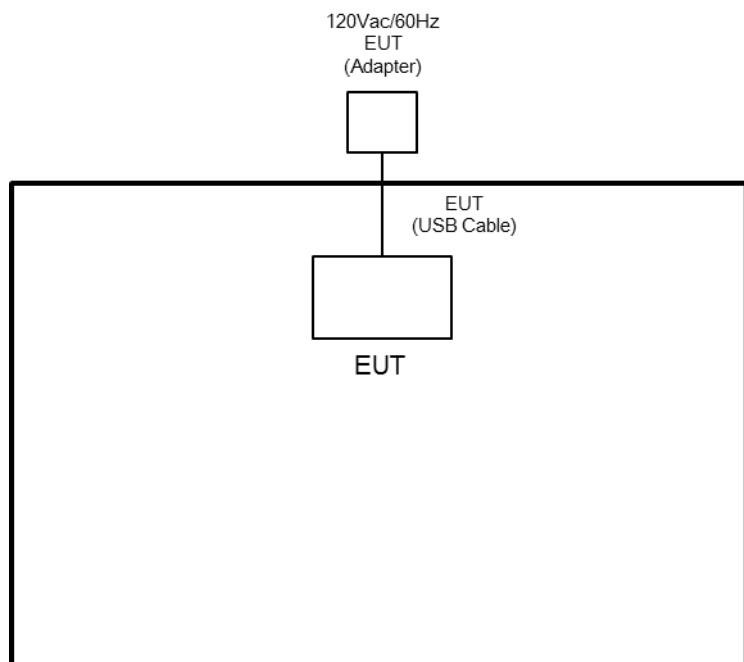
802.11n HT20 mode								
Power vs. Channel			Average Power vs. Data Rate					
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index				
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5
CH 01	2412	20.69	CH 10	20.15	20.16	20.67	20.66	20.65
CH 06	2437	20.48						20.63
CH 11	2462	20.60						20.68

802.11n HT40 mode								
Power vs. Channel			Average Power vs. Data Rate					
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index				
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5
CH 03	2422	15.08	CH 09	13.35	13.50	12.56	12.50	12.19
CH 06	2437	15.13						11.26
CH 09	2452	15.19						8.80

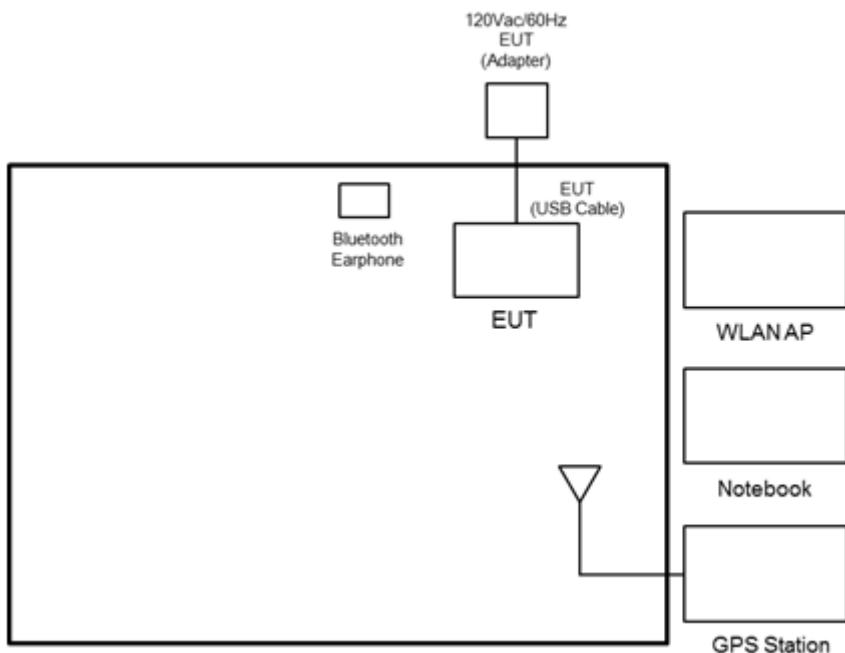
802.11n HT40 mode								
Power vs. Channel			Peak Power vs. Data Rate					
Channel	Frequency (MHz)	MCS Index	Channel	MCS Index				
		MCS0		MCS1	MCS2	MCS3	MCS4	MCS5
CH 03	2422	18.91	CH 09	18.98	19.06	19.20	19.14	19.18
CH 06	2437	18.84						19.18
CH 09	2452	19.22						19.10

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

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

2.6 Measurement Results Explanation Example

For all conducted test items:

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

Example:

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

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

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

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

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



3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

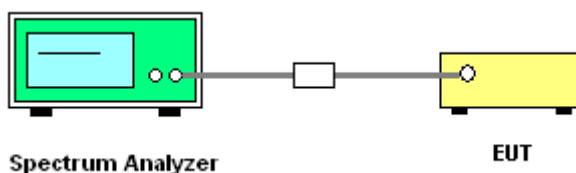
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup

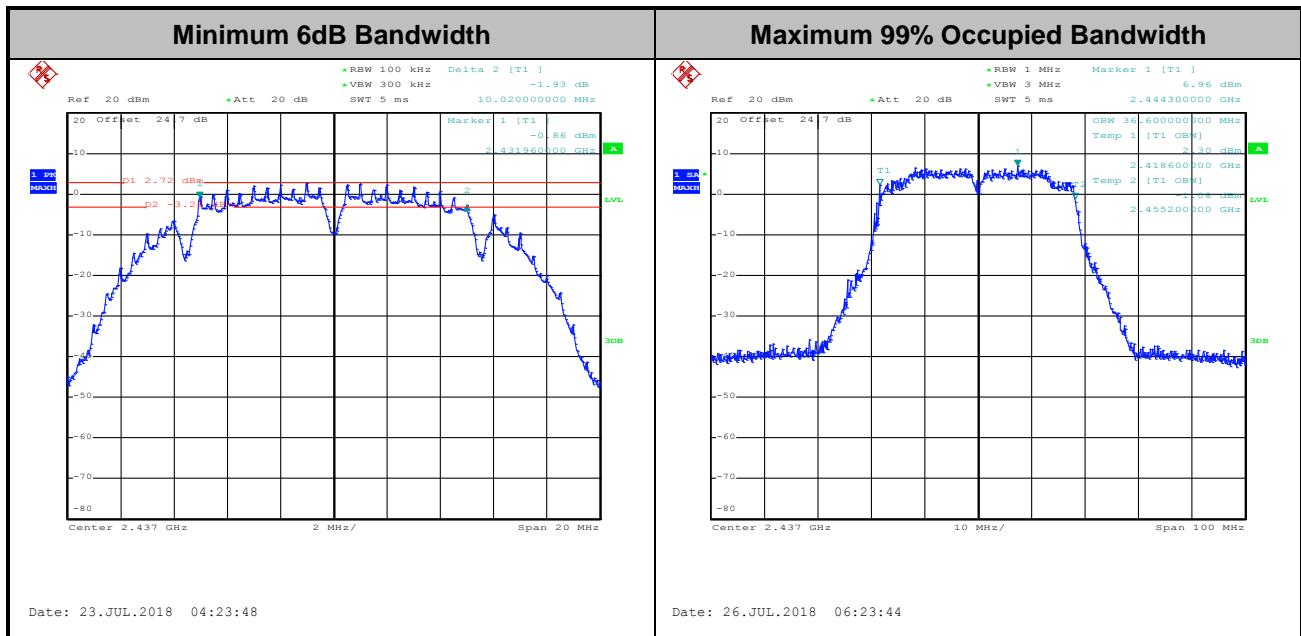




3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu					Temperature :		21~25°C
						Relative Humidity :		51~54%

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	13.65	13.60	10.08	10.08	0.50	Pass
11b	1Mbps	1	6	2437	13.85	14.10	10.08	10.08	0.50	Pass
11b	1Mbps	1	11	2462	14.80	13.55	10.04	10.08	0.50	Pass
11g	6Mbps	1	1	2412	16.60	16.65	15.24	15.11	0.50	Pass
11g	6Mbps	1	6	2437	16.70	16.70	15.28	15.08	0.50	Pass
11g	6Mbps	1	11	2462	16.60	16.50	15.04	15.42	0.50	Pass
HT20	MCS0	1	1	2412	17.85	17.80	15.12	15.92	0.50	Pass
HT20	MCS0	1	6	2437	17.80	17.85	15.28	15.04	0.50	Pass
HT20	MCS0	1	11	2462	17.70	17.70	15.06	15.28	0.50	Pass
HT40	MCS0	1	3	2422	36.30	36.20	33.84	32.59	0.50	Pass
HT40	MCS0	1	6	2437	36.40	36.60	35.00	35.12	0.50	Pass
HT40	MCS0	1	9	2452	36.20	36.20	35.10	33.90	0.50	Pass
11b	1Mbps	2	1	2412	13.60	13.60	11.04	10.08	0.50	Pass
11b	1Mbps	2	6	2437	13.75	13.65	10.02	10.04	0.50	Pass
11b	1Mbps	2	11	2462	13.50	13.55	10.08	10.08	0.50	Pass
11g	6Mbps	2	1	2412	16.65	16.65	15.32	15.04	0.50	Pass
11g	6Mbps	2	6	2437	16.65	16.70	15.12	15.12	0.50	Pass
11g	6Mbps	2	11	2462	16.55	16.60	15.31	15.13	0.50	Pass
HT20	MCS0	2	1	2412	17.80	17.75	15.88	15.08	0.50	Pass
HT20	MCS0	2	6	2437	17.85	17.80	15.08	15.52	0.50	Pass
HT20	MCS0	2	11	2462	17.70	17.75	15.13	13.88	0.50	Pass
HT40	MCS0	2	3	2422	36.30	36.20	33.84	32.56	0.50	Pass
HT40	MCS0	2	6	2437	36.40	36.30	35.04	35.08	0.50	Pass
HT40	MCS0	2	9	2452	36.20	36.30	33.78	33.80	0.50	Pass



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



3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

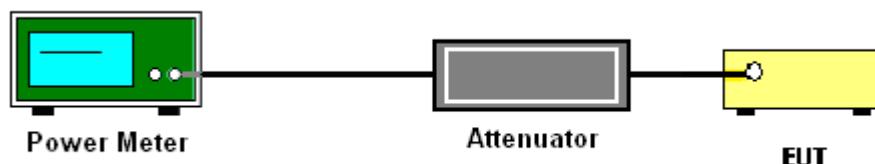
3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

3.2.3 Test Procedures

1. For Peak Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
2. For Average Power, the testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.2.3.1 Method AVGPM.
3. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
4. Set to the maximum power setting and enable the EUT transmit continuously.
5. Measure the conducted output power and record the results in the test report.
6. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup





3.2.5 Test Result of Peak Output Power (Reporting Only)

Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu							Temperature :	21~25°C	
								Relative Humidity :	51~54%	

2.4GHz Band													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)	
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2
11b	1Mbps	1	1	2412	15.86	15.15	-	30.00	30.00	2.70	0.90	18.56	16.05
11b	1Mbps	1	6	2437	15.97	15.02	-	30.00	30.00	2.70	0.90	18.67	15.92
11b	1Mbps	1	11	2462	15.85	15.14	-	30.00	30.00	2.70	0.90	18.55	16.04
11g	6Mbps	1	1	2412	18.79	17.88	-	30.00	30.00	2.70	0.90	21.49	18.78
11g	6Mbps	1	6	2437	18.54	17.33	-	30.00	30.00	2.70	0.90	21.24	18.23
11g	6Mbps	1	11	2462	18.52	17.55	-	30.00	30.00	2.70	0.90	21.22	18.45
HT20	MCS0	1	1	2412	18.62	17.86	-	30.00	30.00	2.70	0.90	21.32	18.76
HT20	MCS0	1	6	2437	18.45	17.33	-	30.00	30.00	2.70	0.90	21.15	18.23
HT20	MCS0	1	11	2462	18.54	17.66	-	30.00	30.00	2.70	0.90	21.24	18.56
HT40	MCS0	1	3	2422	16.91	16.19	-	30.00	30.00	2.70	0.90	19.61	17.09
HT40	MCS0	1	6	2437	16.78	15.74	-	30.00	30.00	2.70	0.90	19.48	16.64
HT40	MCS0	1	9	2452	14.58	16.11	-	30.00	30.00	2.70	0.90	17.28	17.01
11b	1Mbps	2	1	2412	15.06	14.94	18.01	30.00		2.70		20.71	
11b	1Mbps	2	6	2437	14.72	14.88	17.81	30.00		2.70		20.51	
11b	1Mbps	2	11	2462	14.83	15.00	17.93	30.00		2.70		20.63	
11g	6Mbps	2	1	2412	17.54	17.72	20.64	30.00		2.70		23.34	
11g	6Mbps	2	6	2437	17.33	17.26	20.31	30.00		2.70		23.01	
11g	6Mbps	2	11	2462	17.51	17.64	20.59	30.00		2.70		23.29	
HT20	MCS0	2	1	2412	17.50	17.85	20.69	30.00		2.70		23.39	
HT20	MCS0	2	6	2437	17.39	17.54	20.48	30.00		2.70		23.18	
HT20	MCS0	2	11	2462	17.58	17.60	20.60	30.00		2.70		23.30	
HT40	MCS0	2	3	2422	15.75	16.04	18.91	30.00		2.70		21.61	
HT40	MCS0	2	6	2437	15.66	16.00	18.84	30.00		2.70		21.54	
HT40	MCS0	2	9	2452	16.06	16.36	19.22	30.00		2.70		21.92	



3.2.6 Test Result of Average output Power

Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu			Temperature :		21~25°C	
				Relative Humidity :		51~54%	

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.06	0.06	13.21	12.40	
11b	1Mbps	1	6	2437	0.06	0.06	13.24	12.34	
11b	1Mbps	1	11	2462	0.06	0.06	13.20	12.37	
11g	6Mbps	1	1	2412	0.13	0.13	13.23	12.38	
11g	6Mbps	1	6	2437	0.13	0.13	13.14	12.27	
11g	6Mbps	1	11	2462	0.13	0.13	13.22	12.30	
HT20	MCS0	1	1	2412	0.09	0.09	13.14	12.33	
HT20	MCS0	1	6	2437	0.09	0.09	13.02	12.15	
HT20	MCS0	1	11	2462	0.09	0.09	13.07	12.20	
HT40	MCS0	1	3	2422	0.14	0.18	13.17	12.27	
HT40	MCS0	1	6	2437	0.14	0.18	13.05	12.03	
HT40	MCS0	1	9	2452	0.14	0.18	13.12	12.10	
11b	1Mbps	2	1	2412	0.04	0.06	12.18	12.34	15.27
11b	1Mbps	2	6	2437	0.04	0.06	12.02	12.27	15.16
11b	1Mbps	2	11	2462	0.04	0.06	12.10	12.30	15.21
11g	6Mbps	2	1	2412	0.13	0.13	12.32	12.36	15.33
11g	6Mbps	2	6	2437	0.13	0.13	12.24	12.26	15.26
11g	6Mbps	2	11	2462	0.13	0.13	12.29	12.34	15.35
HT20	MCS0	2	1	2412	0.09	0.14	12.12	12.39	15.27
HT20	MCS0	2	6	2437	0.09	0.14	12.02	12.09	15.07
HT20	MCS0	2	11	2462	0.09	0.14	12.10	12.18	15.15
HT40	MCS0	2	3	2422	0.18	0.18	11.92	12.21	15.08
HT40	MCS0	2	6	2437	0.18	0.18	11.98	12.25	15.13
HT40	MCS0	2	9	2452	0.18	0.18	12.03	12.33	15.19



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

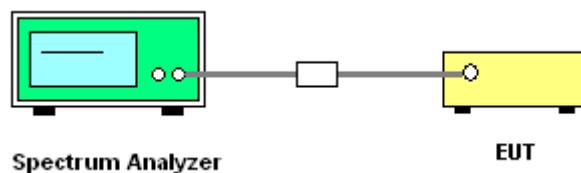
Method (1): Measure and sum the spectra across the outputs.

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

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



3.3.4 Test Setup

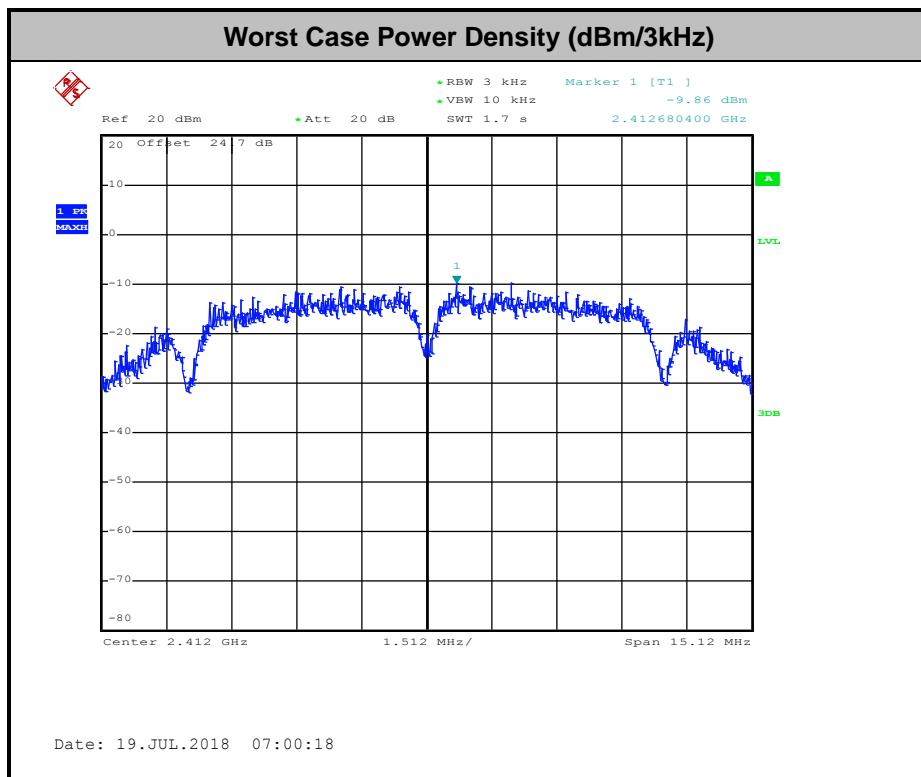




3.3.5 Test Result of Power Spectral Density

Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu							Temperature :	21~25°C
								Relative Humidity :	51~54%

2.4GHz Band												
Mod.	Data Rate	Ntx	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-9.86	-10.64	-	2.70	0.90	8.00	8.00	Pass
11b	1Mbps	1	6	2437	-10.07	-10.54	-	2.70	0.90	8.00	8.00	Pass
11b	1Mbps	1	11	2462	-10.28	-11.21	-	2.70	0.90	8.00	8.00	Pass
11g	6Mbps	1	1	2412	-11.76	-13.00	-	2.70	0.90	8.00	8.00	Pass
11g	6Mbps	1	6	2437	-12.24	-13.11	-	2.70	0.90	8.00	8.00	Pass
11g	6Mbps	1	11	2462	-10.99	-12.13	-	2.70	0.90	8.00	8.00	Pass
HT20	MCS0	1	1	2412	-12.38	-13.23	-	2.70	0.90	8.00	8.00	Pass
HT20	MCS0	1	6	2437	-12.77	-13.08	-	2.70	0.90	8.00	8.00	Pass
HT20	MCS0	1	11	2462	-12.07	-13.00	-	2.70	0.90	8.00	8.00	Pass
HT40	MCS0	1	3	2422	-14.46	-16.17	-	2.70	0.90	8.00	8.00	Pass
HT40	MCS0	1	6	2437	-16.24	-16.42	-	2.70	0.90	8.00	8.00	Pass
HT40	MCS0	1	9	2452	-15.74	-16.08	-	2.70	0.90	8.00	8.00	Pass
11b	1Mbps	2	1	2412	-11.87	-10.43	-7.42	4.86		8.00		Pass
11b	1Mbps	2	6	2437	-11.26	-10.40	-7.39	4.86		8.00		Pass
11b	1Mbps	2	11	2462	-11.84	-10.33	-7.32	4.86		8.00		Pass
11g	6Mbps	2	1	2412	-12.81	-12.84	-9.80	4.86		8.00		Pass
11g	6Mbps	2	6	2437	-13.21	-12.07	-9.06	4.86		8.00		Pass
11g	6Mbps	2	11	2462	-12.33	-13.49	-9.32	4.86		8.00		Pass
HT20	MCS0	2	1	2412	-13.07	-12.31	-9.30	4.86		8.00		Pass
HT20	MCS0	2	6	2437	-12.87	-13.01	-9.86	4.86		8.00		Pass
HT20	MCS0	2	11	2462	-13.33	-13.35	-10.32	4.86		8.00		Pass
HT40	MCS0	2	3	2422	-16.06	-15.76	-12.75	4.86		8.00		Pass
HT40	MCS0	2	6	2437	-16.97	-16.90	-13.89	4.86		8.00		Pass
HT40	MCS0	2	9	2452	-15.08	-16.15	-12.07	4.86		8.00		Pass





3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

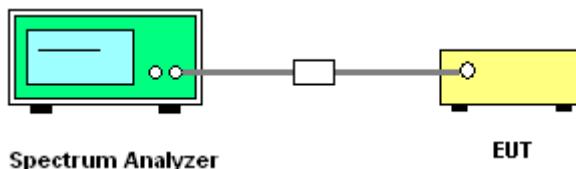
3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

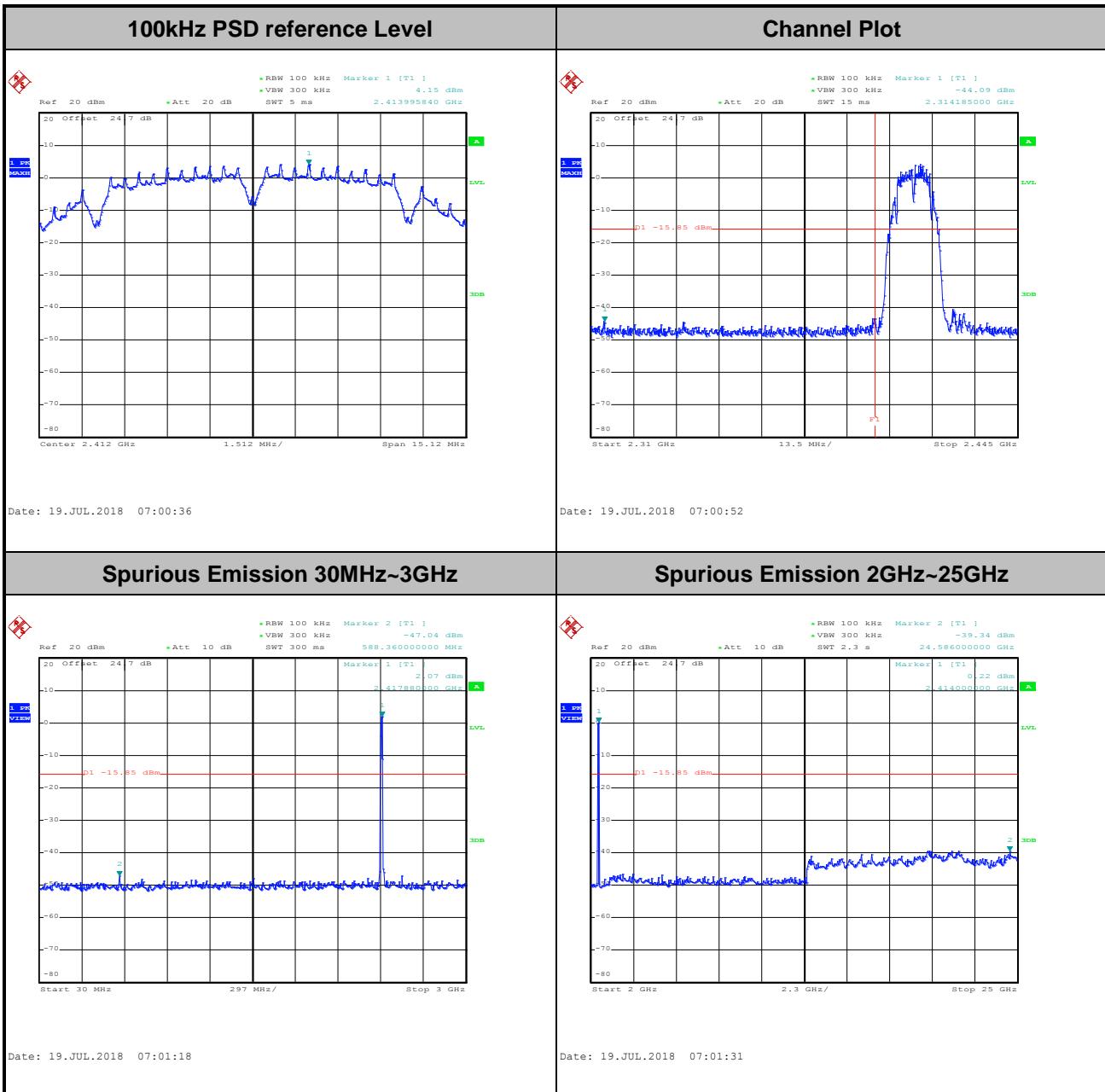




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

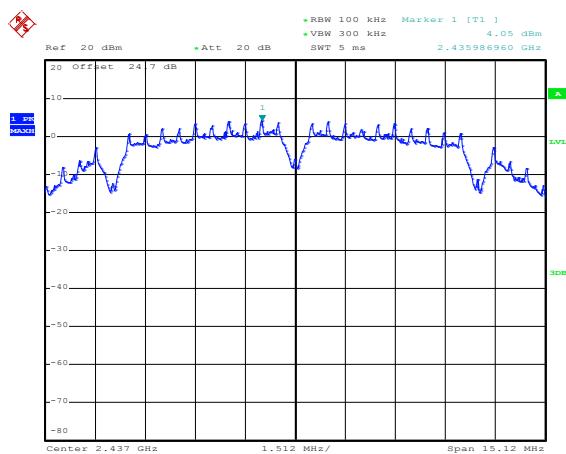
Number of TX	1	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





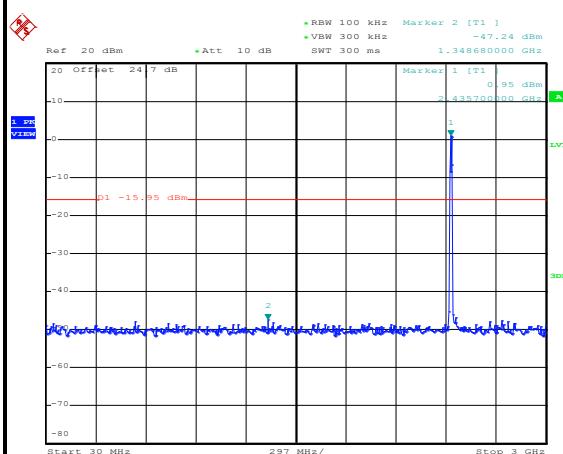
Number of TX	1	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



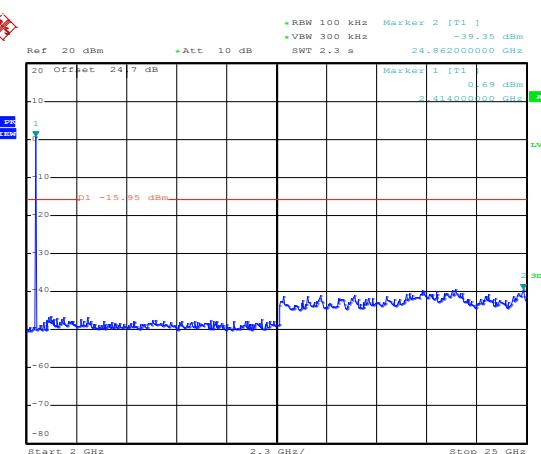
Date: 19.JUL.2018 07:05:20

Spurious Emission 30MHz~3GHz



Date: 19.JUL.2018 07:07:28

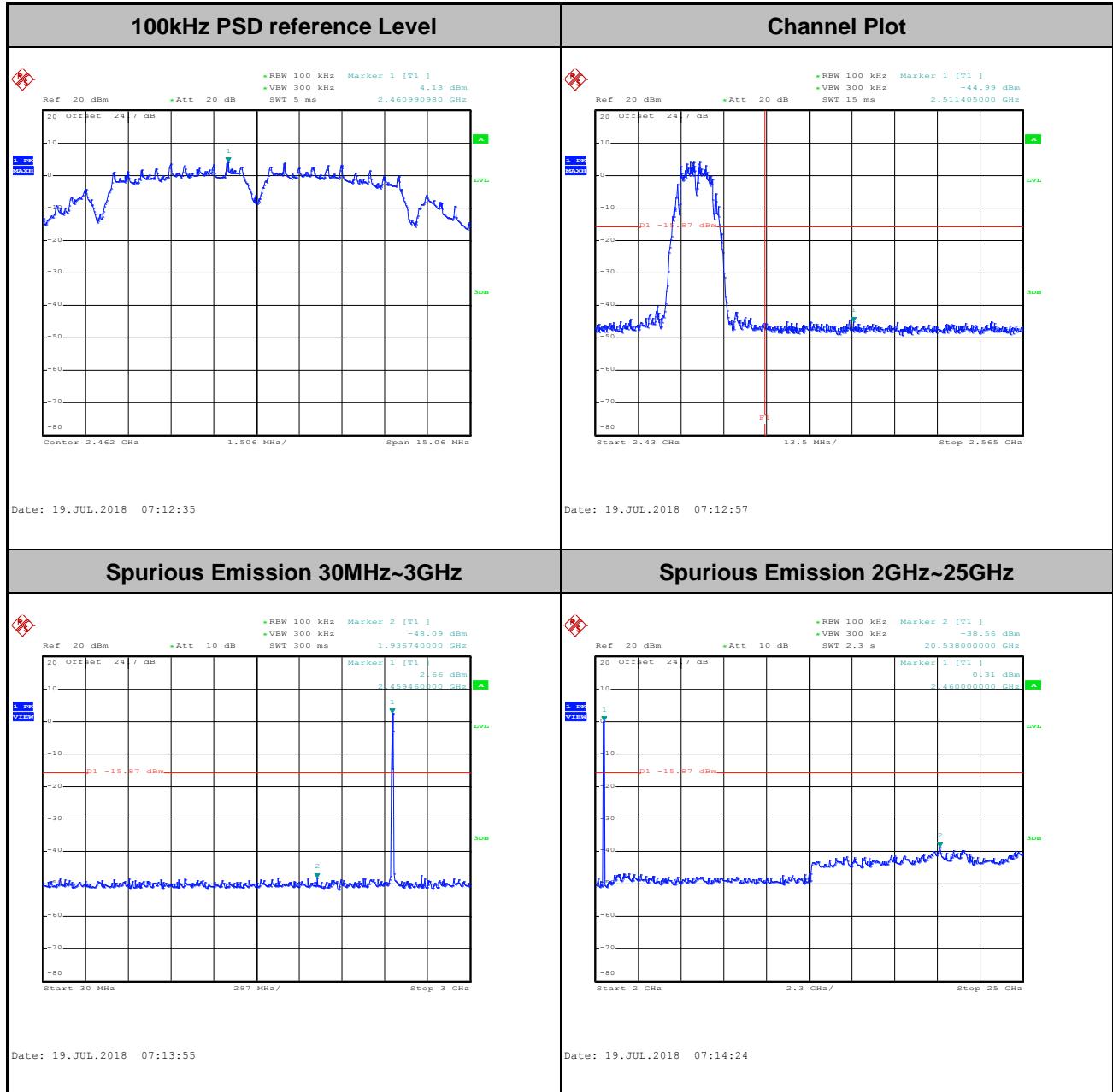
Spurious Emission 2GHz~25GHz



Date: 19.JUL.2018 07:08:14

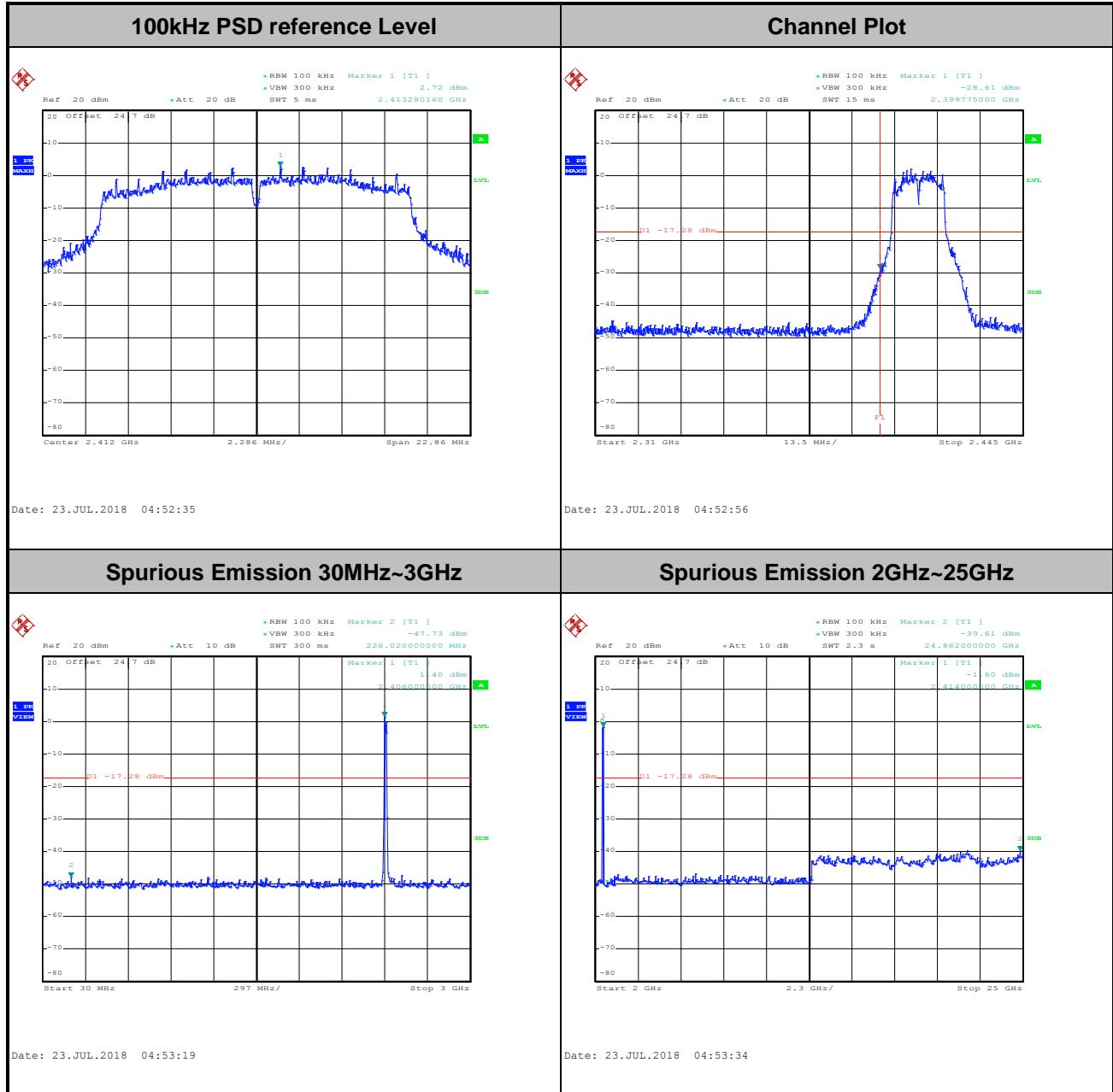


Number of TX	1	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





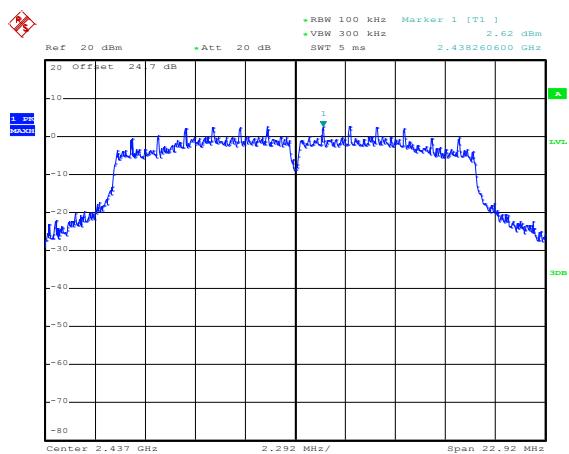
Number of TX	1	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





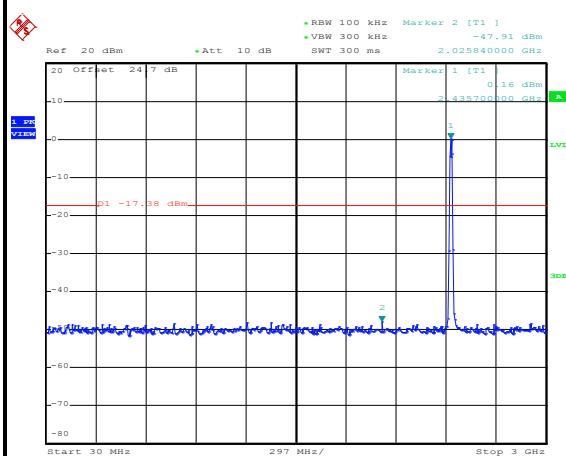
Number of TX	1	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



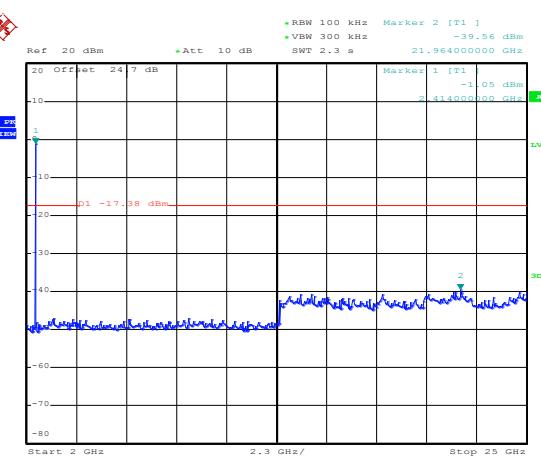
Date: 23.JUL.2018 04:57:39

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 04:57:59

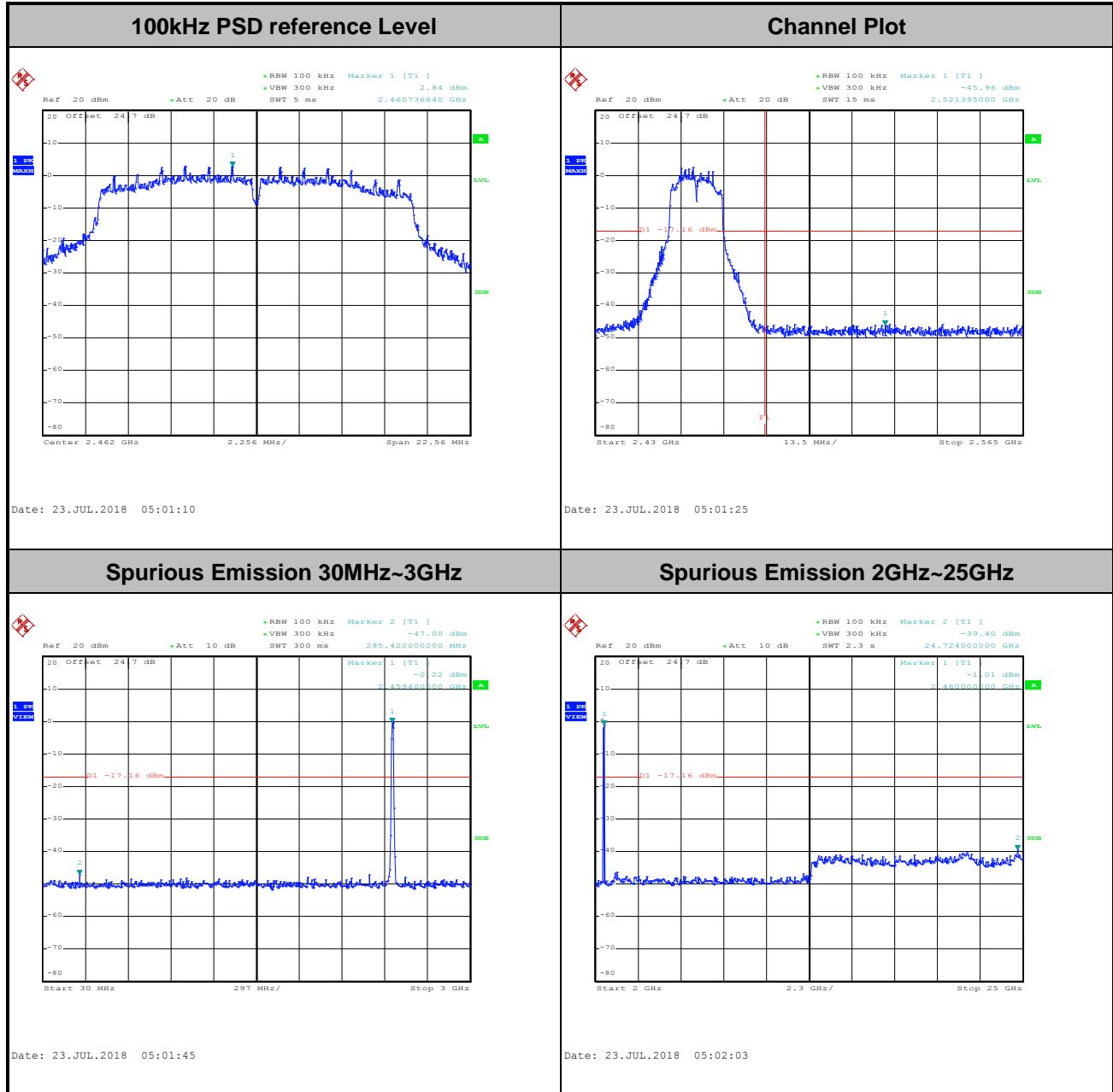
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 04:58:14

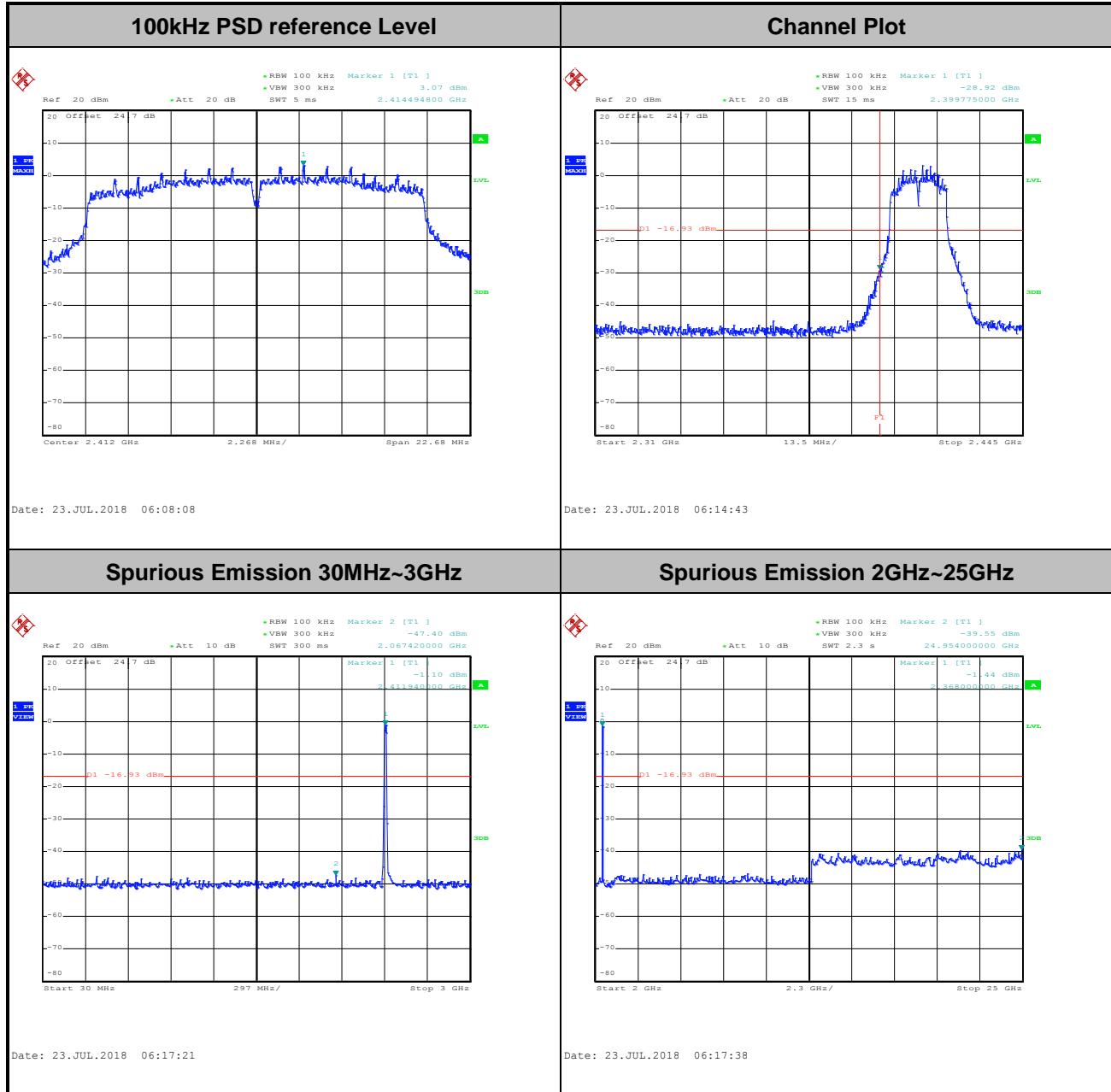


Number of TX	1	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





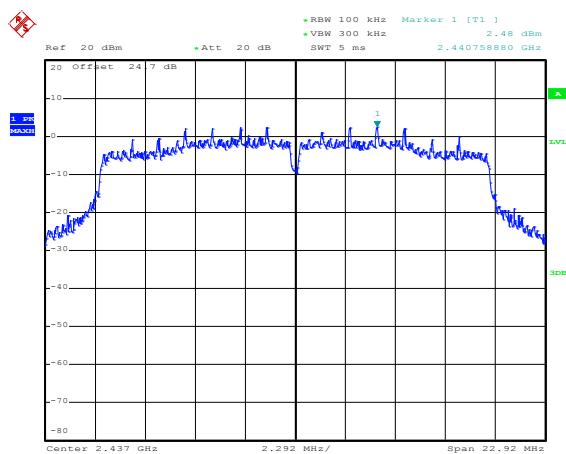
Number of TX	1	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





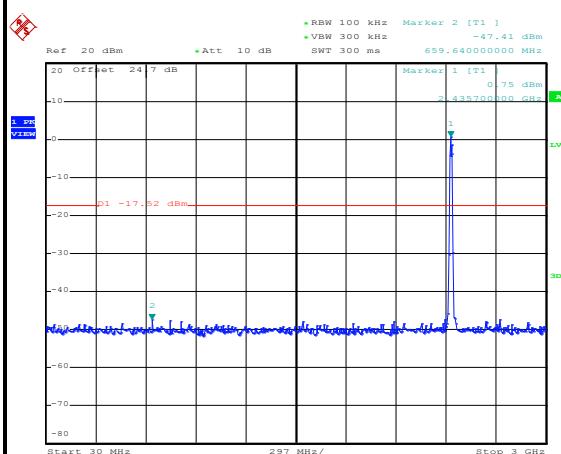
Number of TX	1	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



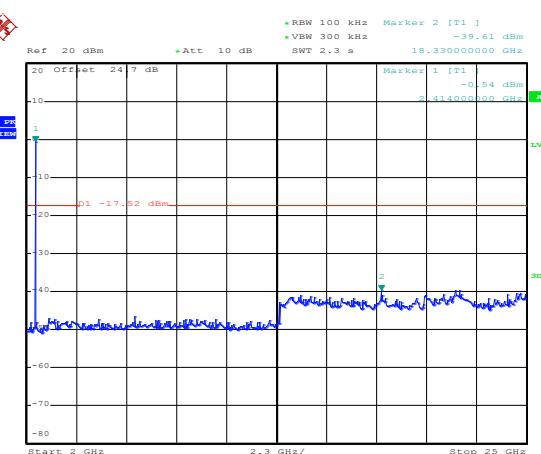
Date: 23.JUL.2018 06:20:12

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 06:20:39

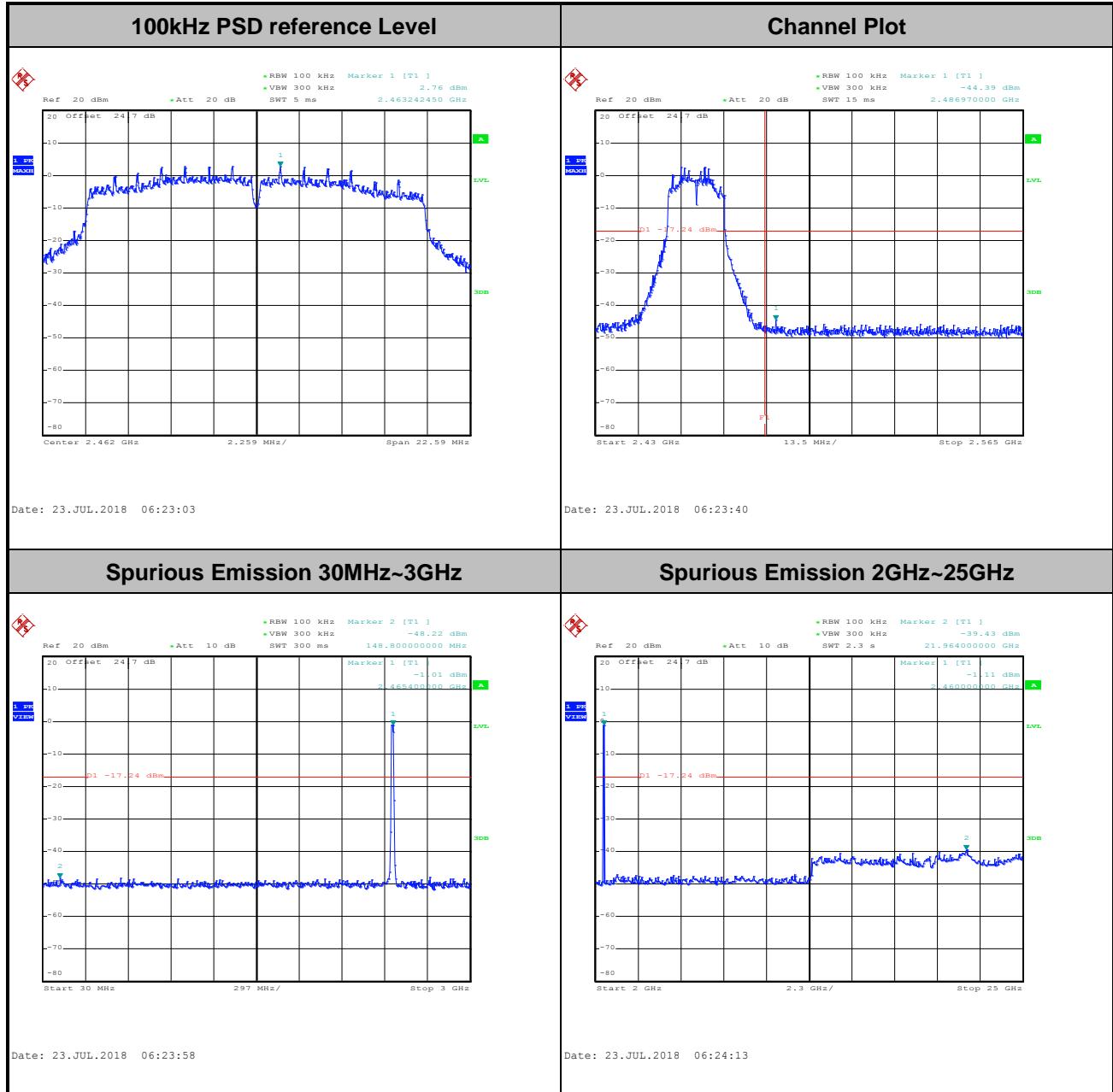
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 06:20:55

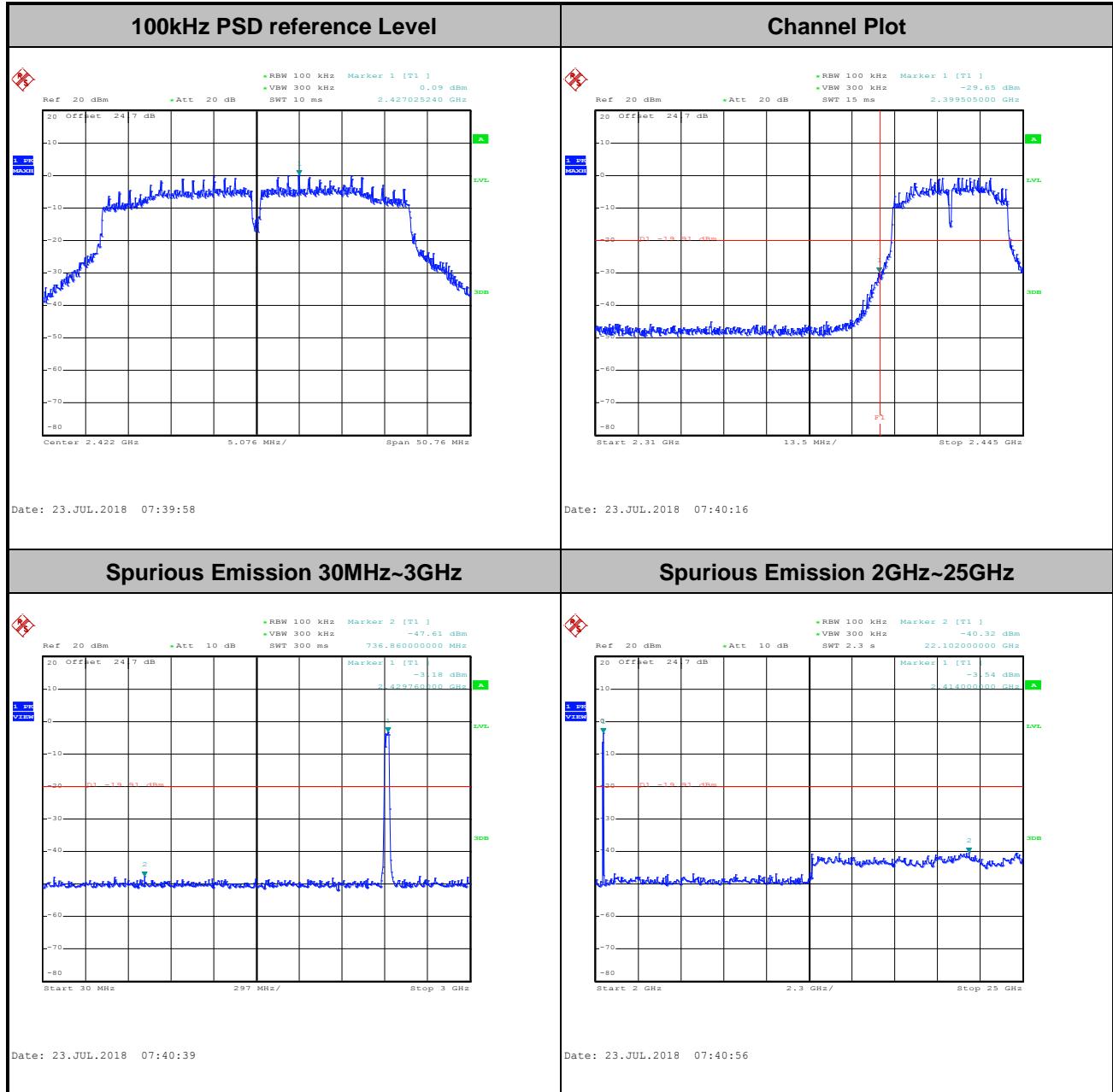


Number of TX	1	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





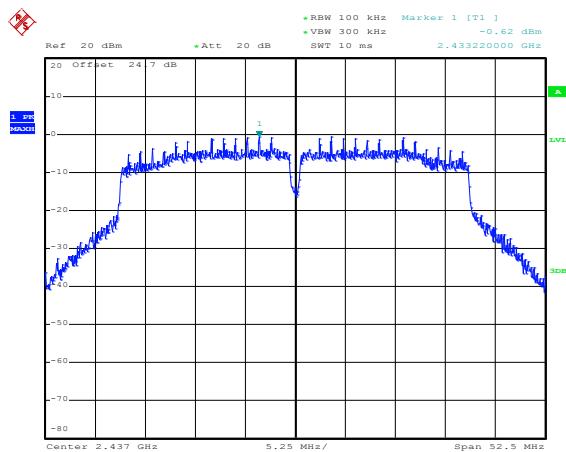
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





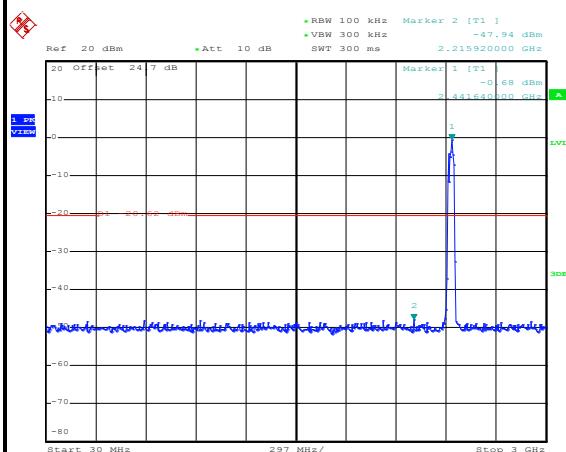
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



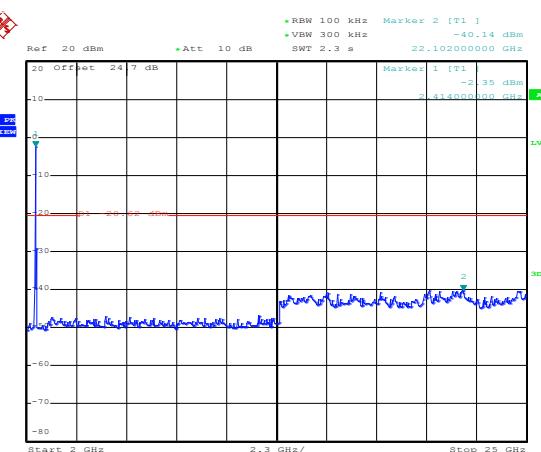
Date: 23.JUL.2018 07:43:04

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 07:43:39

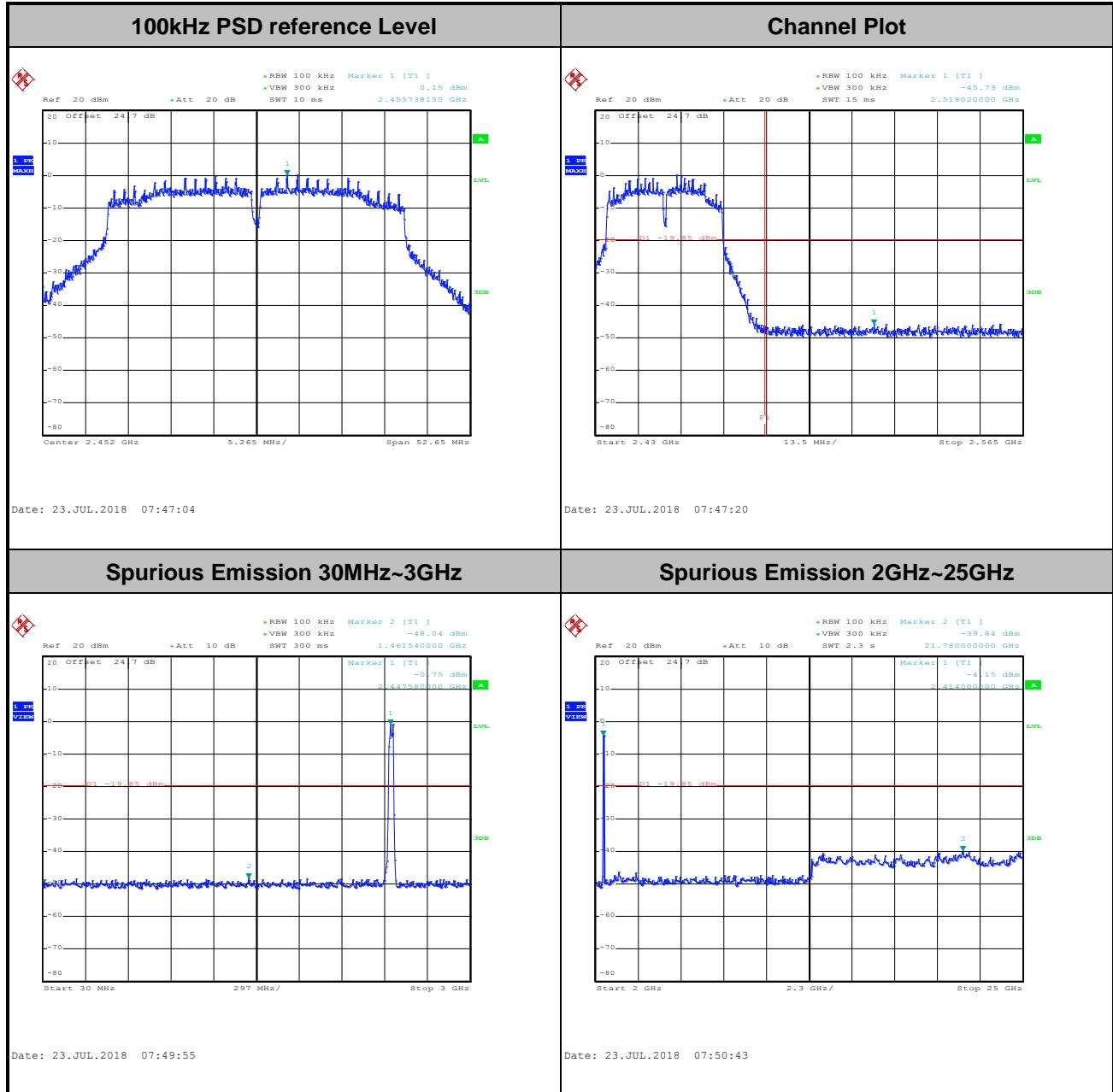
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 07:43:55



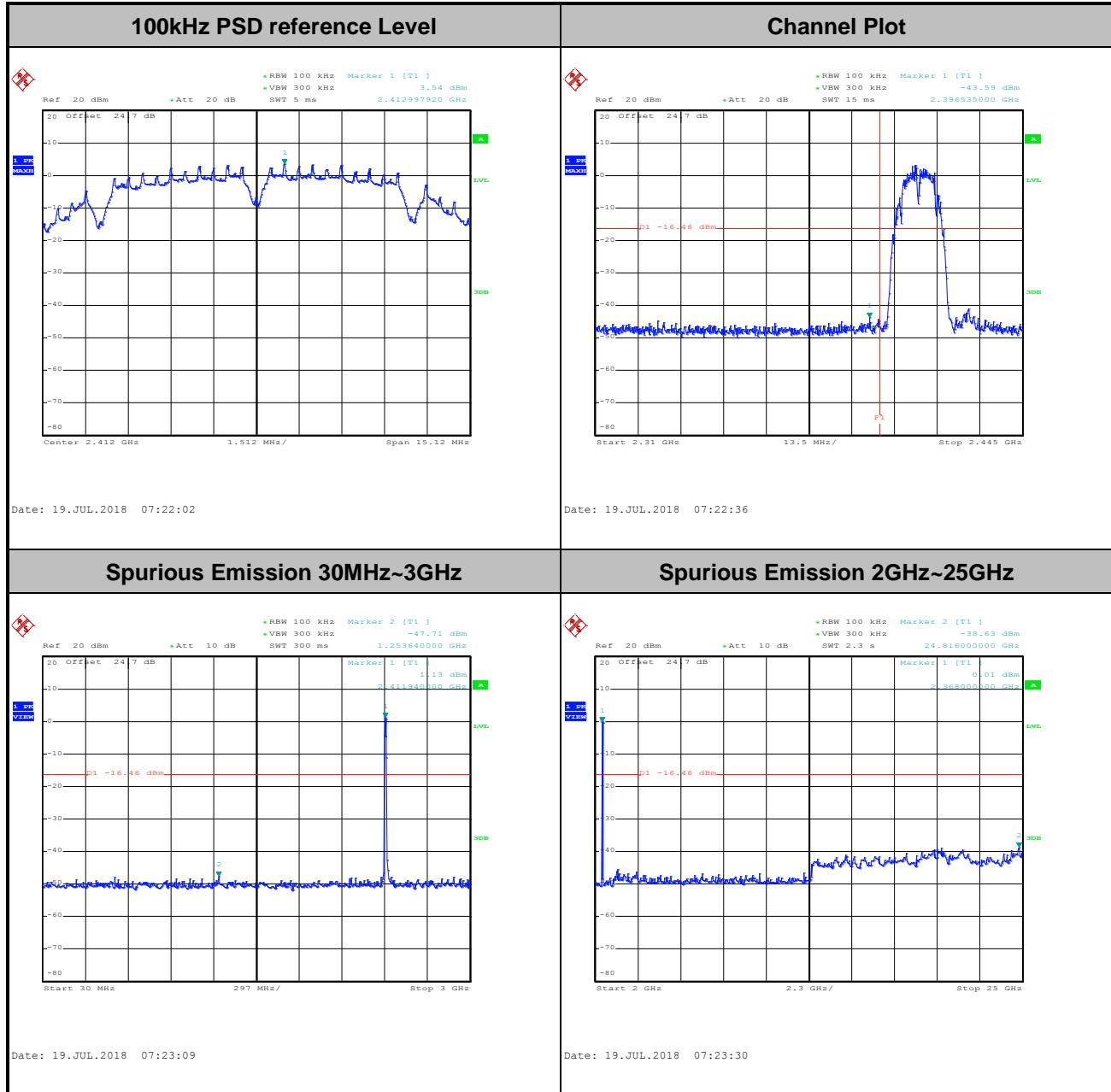
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





Number of TX = 1, Ant. 2 (Measured)

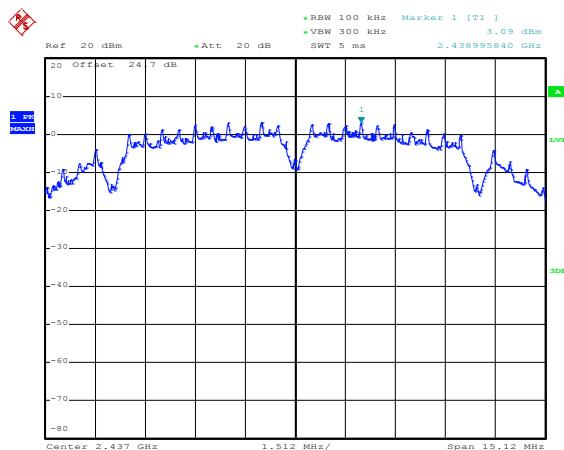
Number of TX	1	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





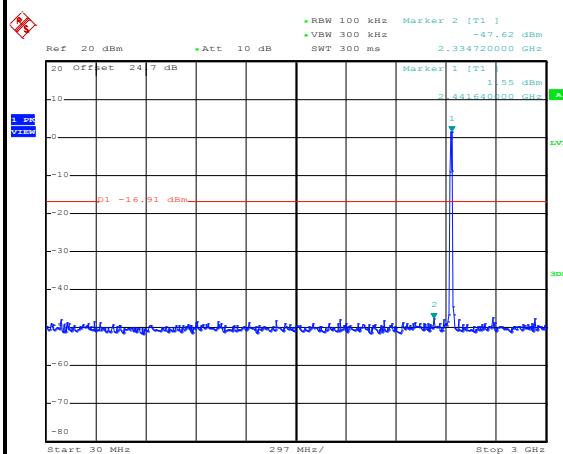
Number of TX	1	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



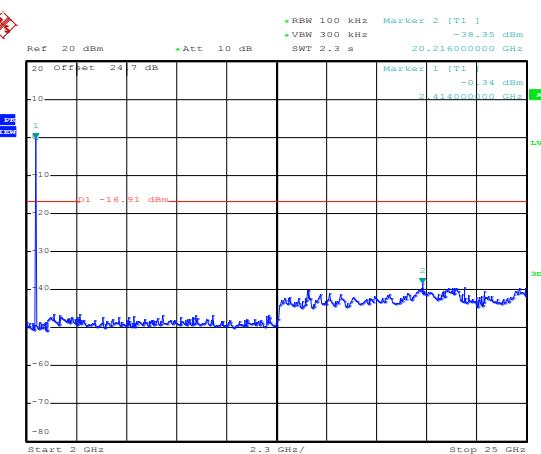
Date: 19.JUL.2018 07:27:57

Spurious Emission 30MHz~3GHz



Date: 19.JUL.2018 07:29:12

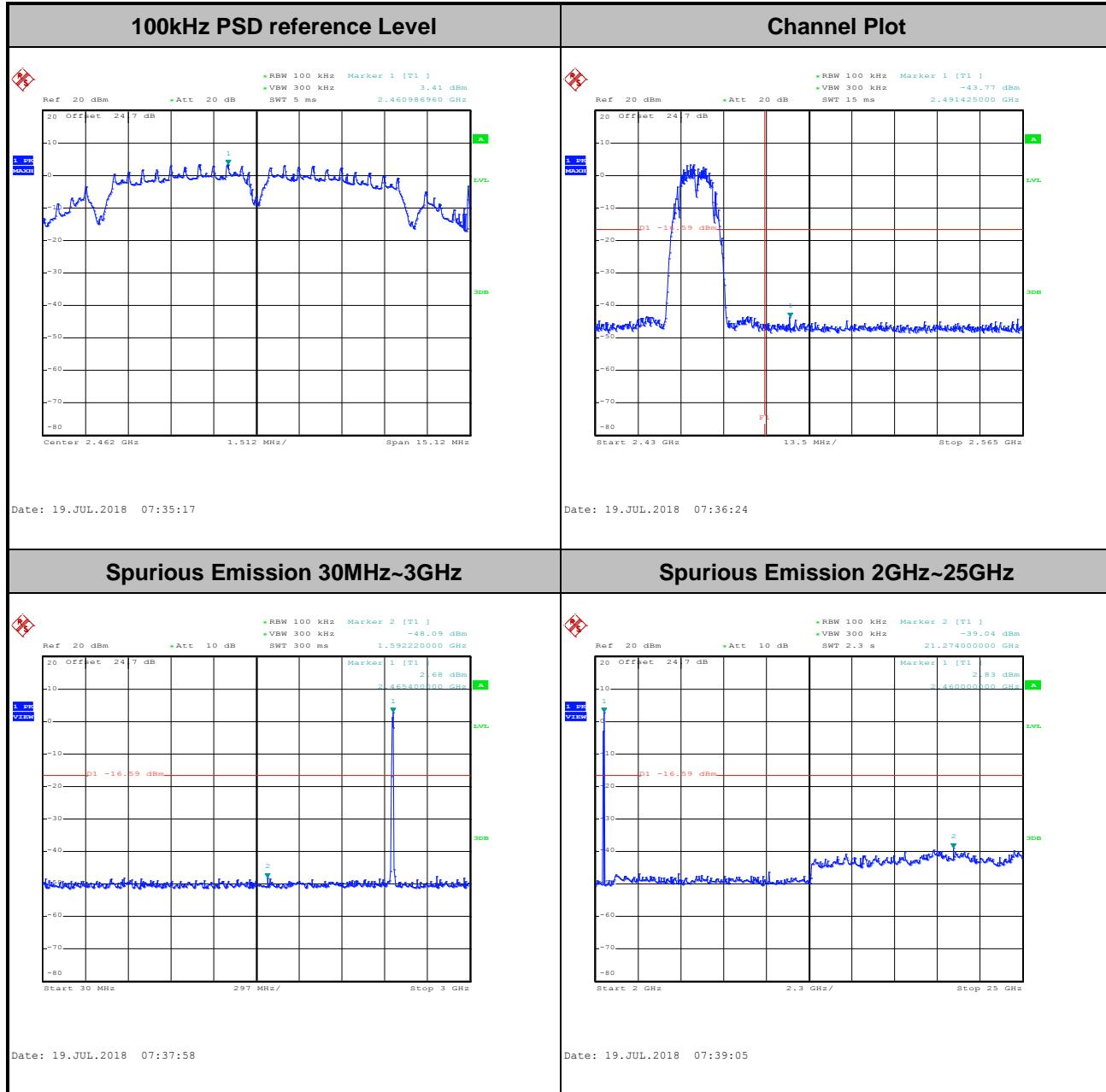
Spurious Emission 2GHz~25GHz



Date: 19.JUL.2018 07:29:40

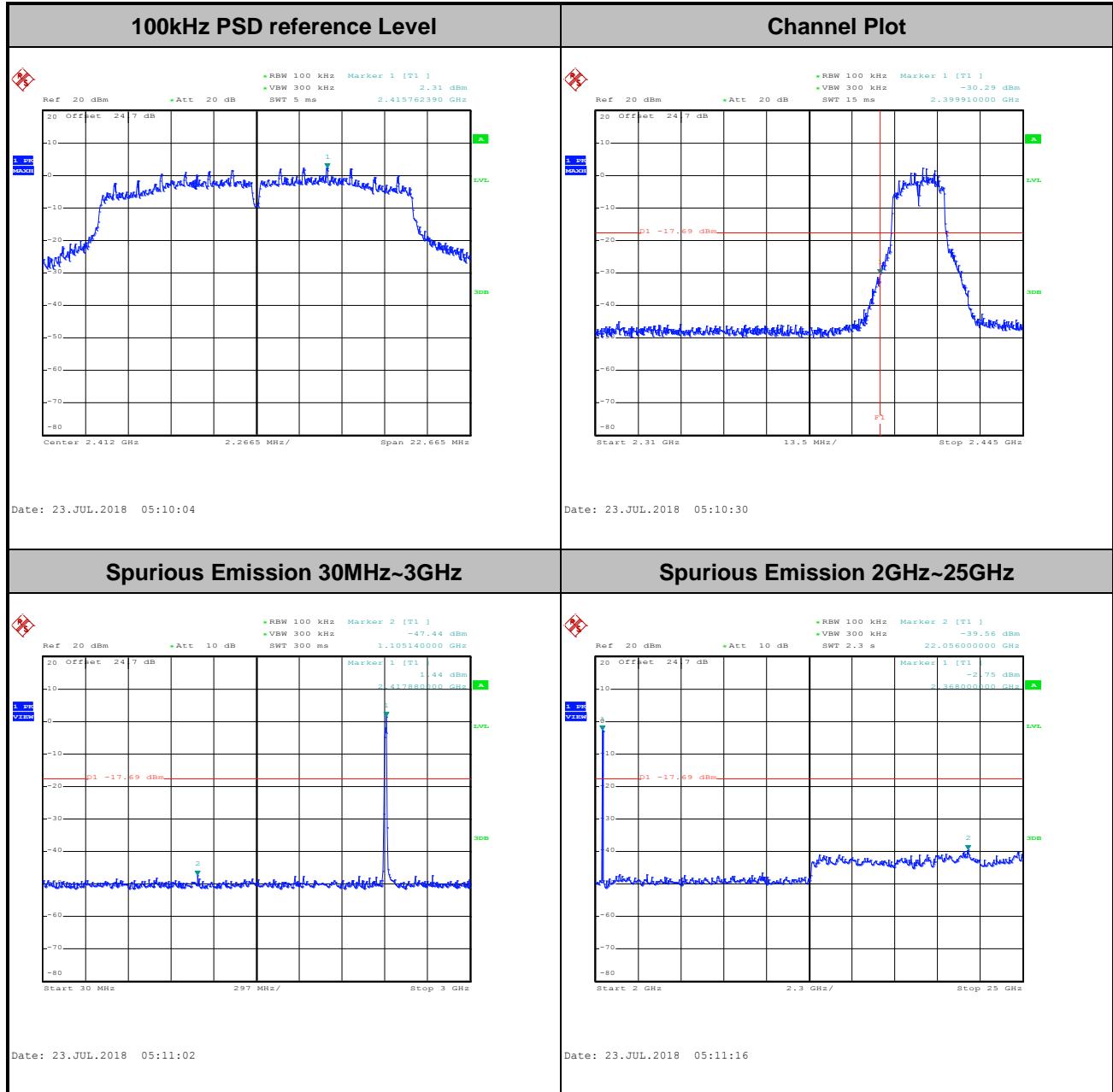


Number of TX	1	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





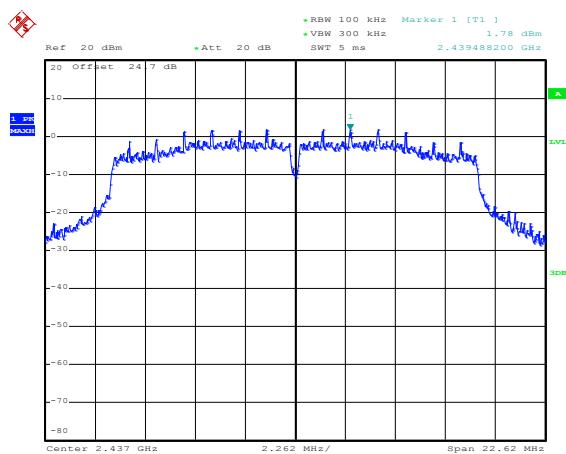
Number of TX	1	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





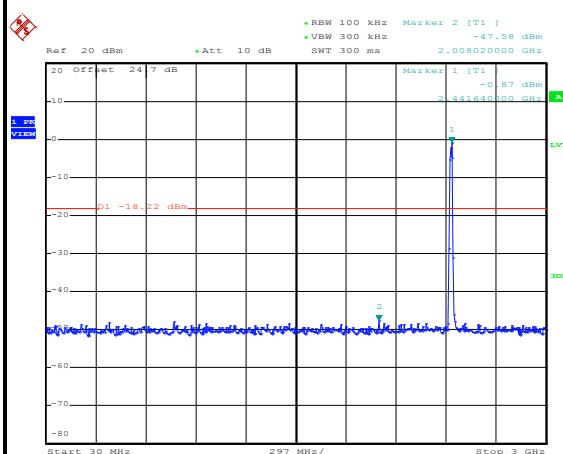
Number of TX	1	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



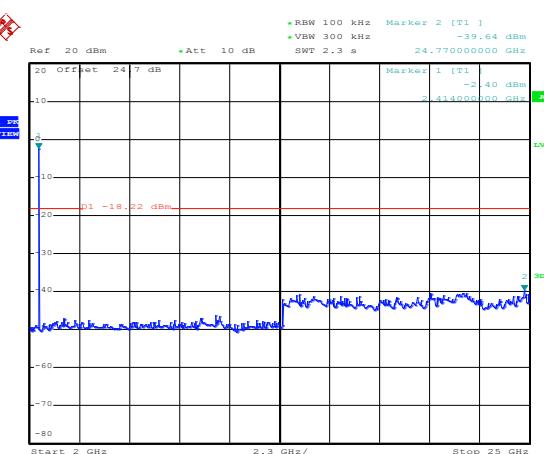
Date: 23.JUL.2018 05:14:14

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 05:14:49

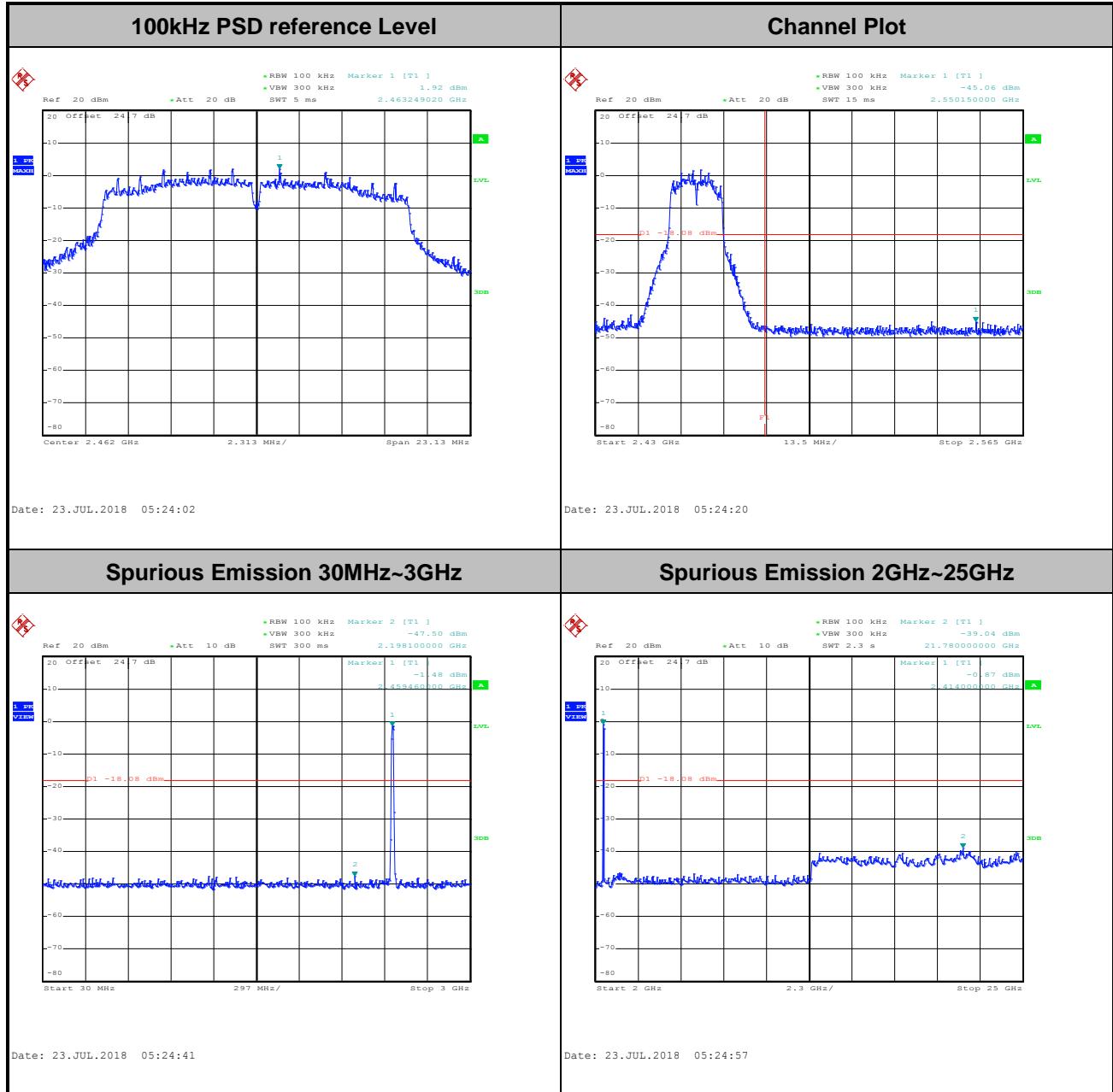
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 05:15:04

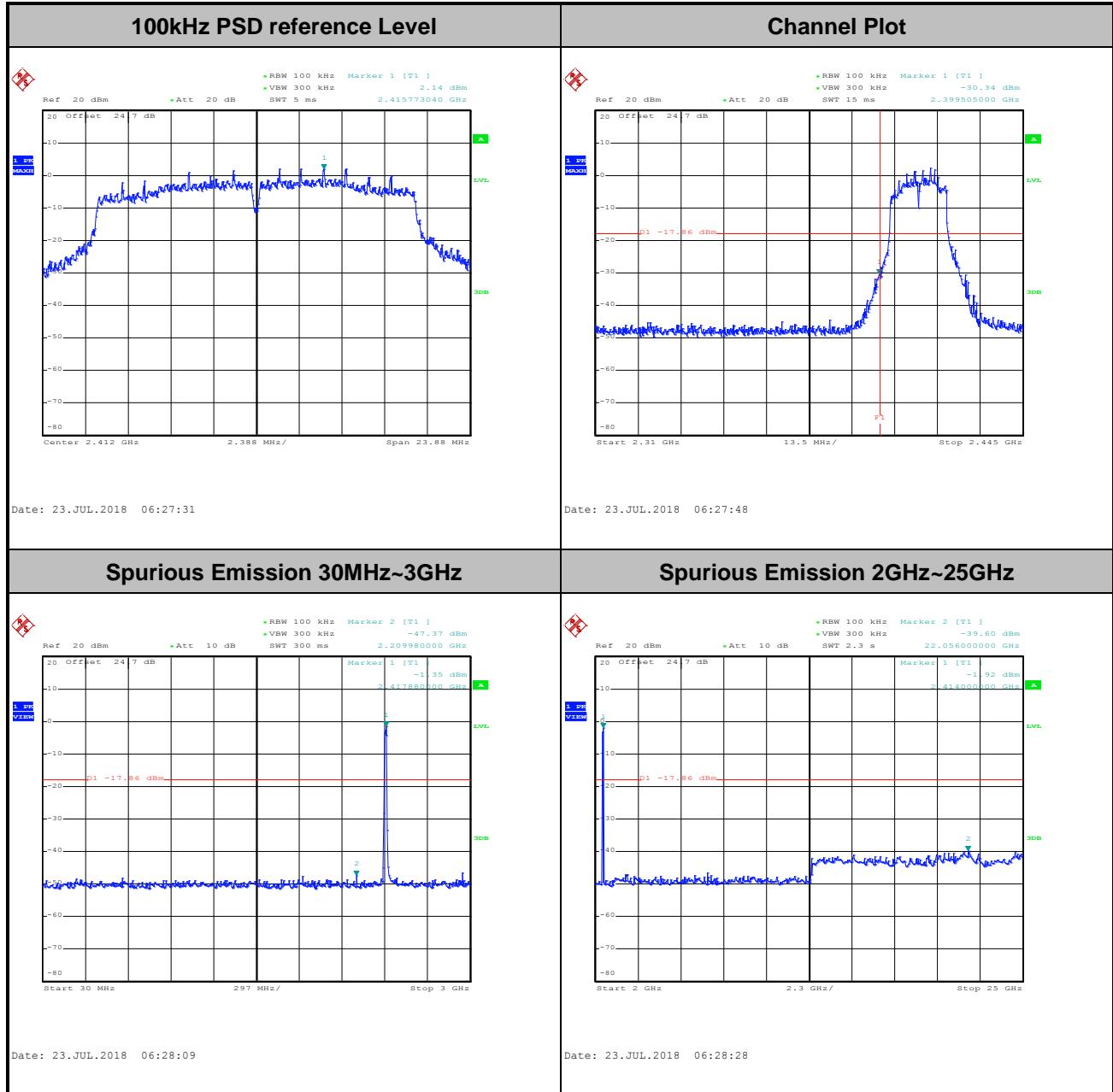


Number of TX	1	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





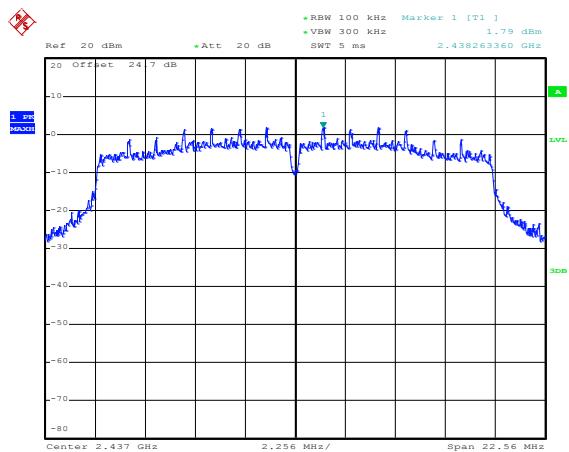
Number of TX	1	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





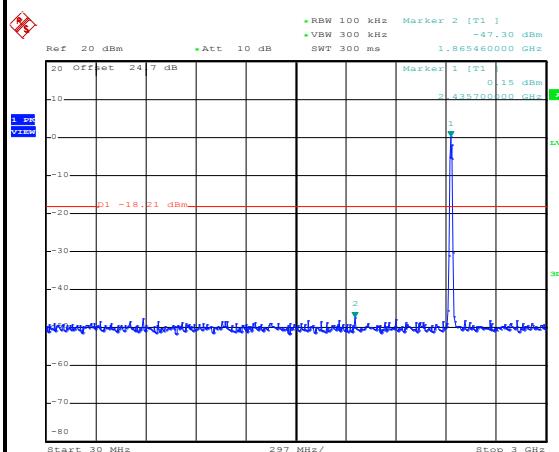
Number of TX	1	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



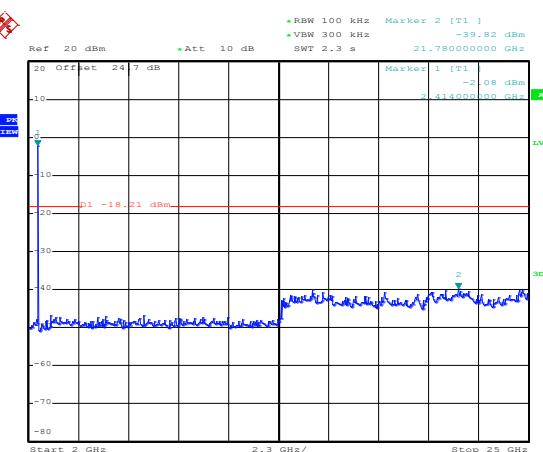
Date: 23.JUL.2018 06:30:38

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 06:31:13

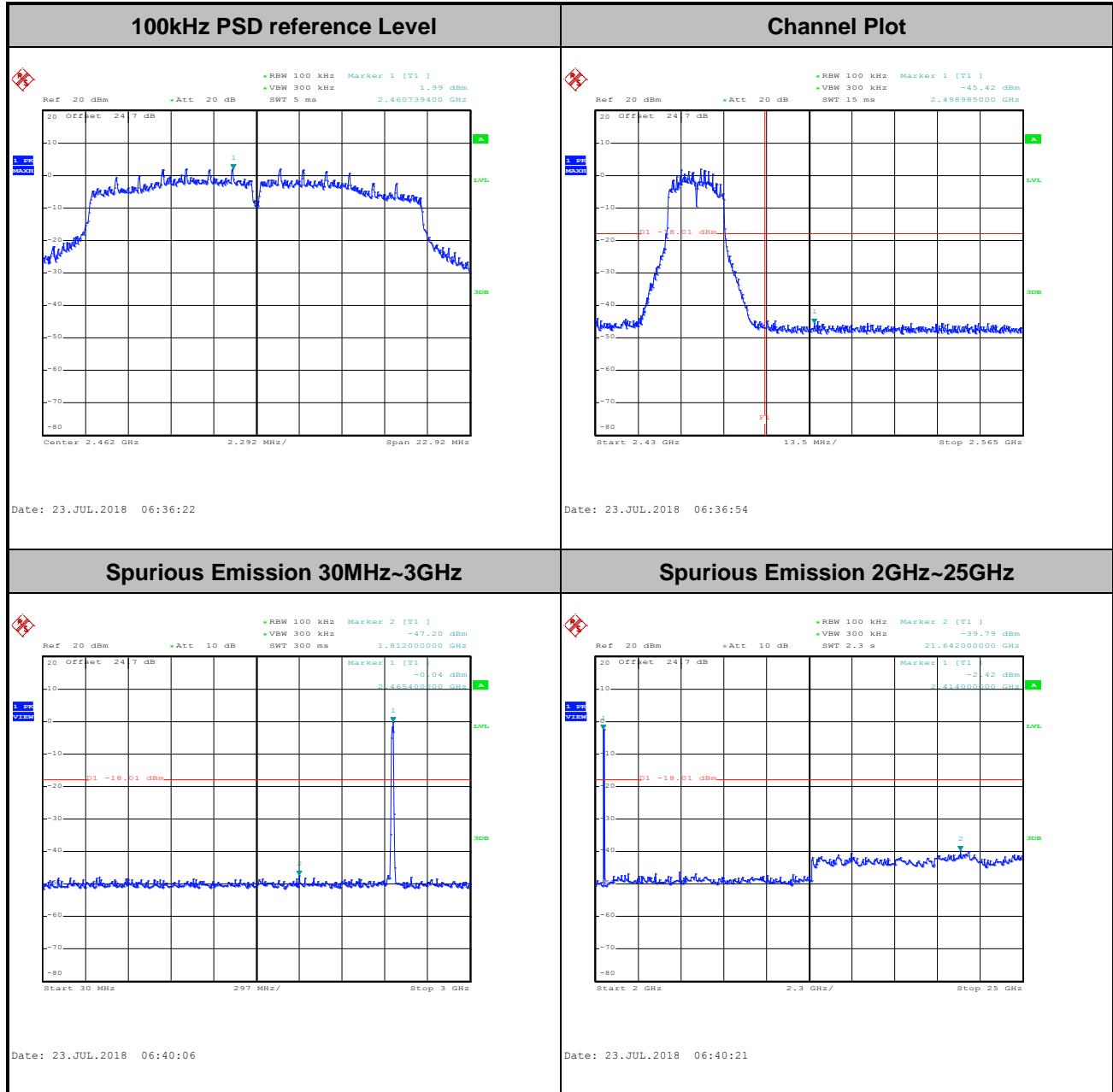
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 06:31:33

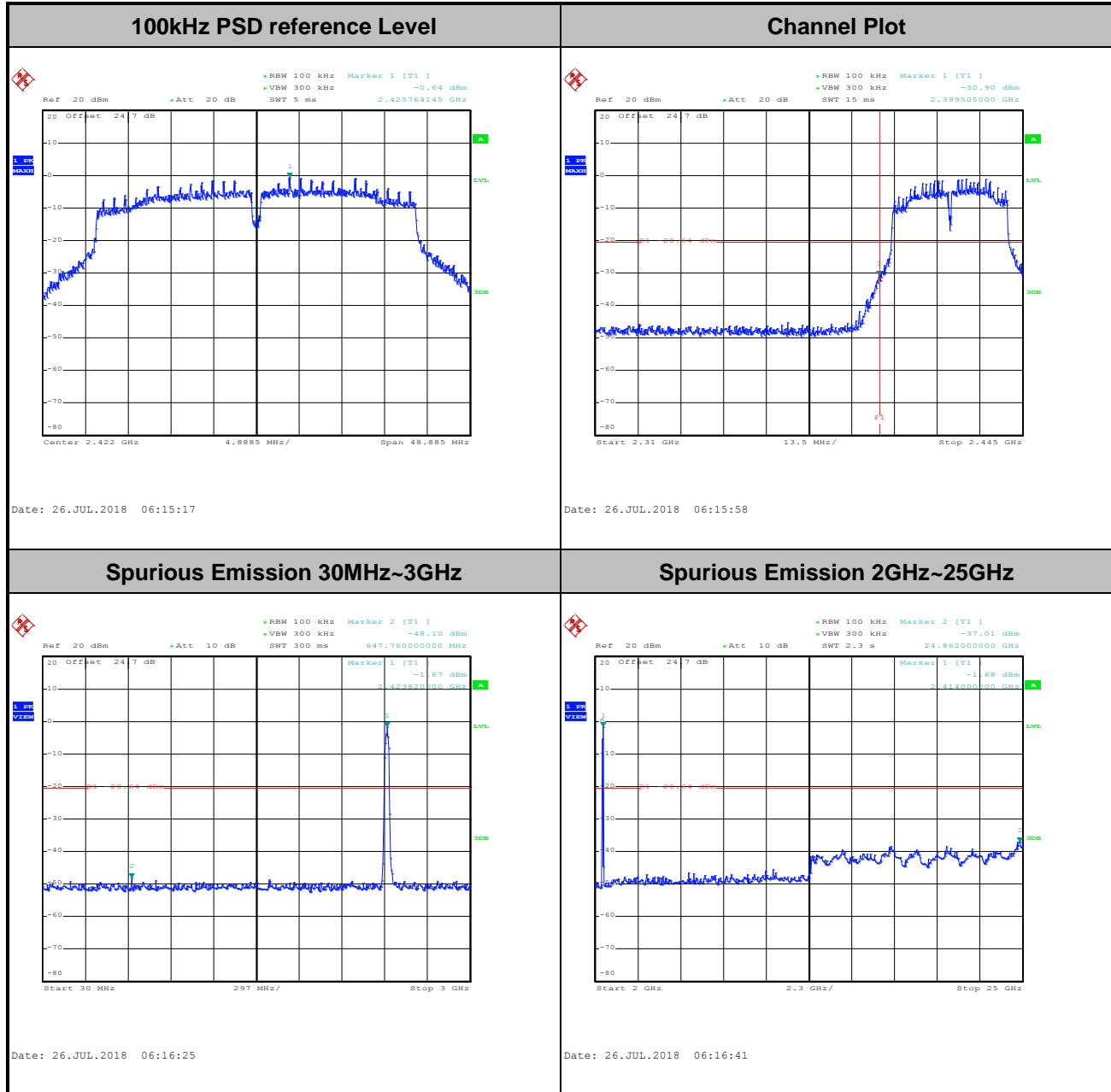


Number of TX	1	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





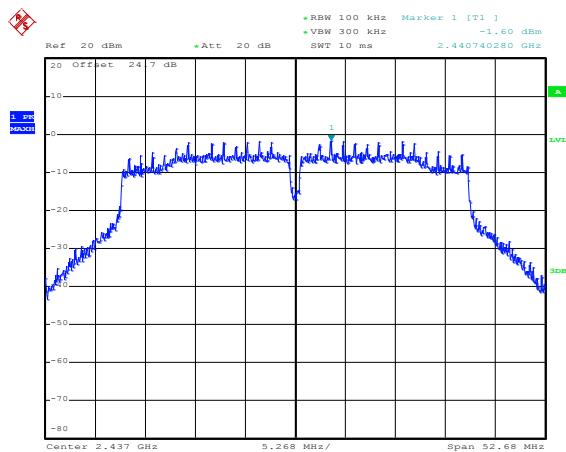
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





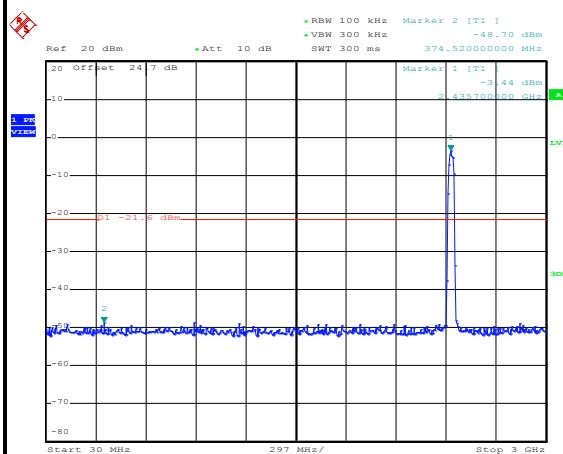
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



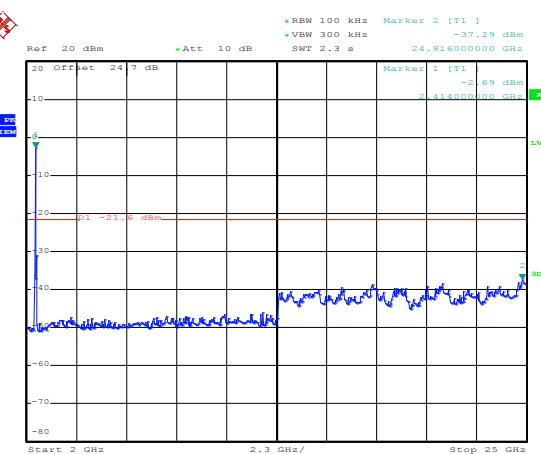
Date: 26.JUL.2018 06:21:30

Spurious Emission 30MHz~3GHz



Date: 26.JUL.2018 06:22:32

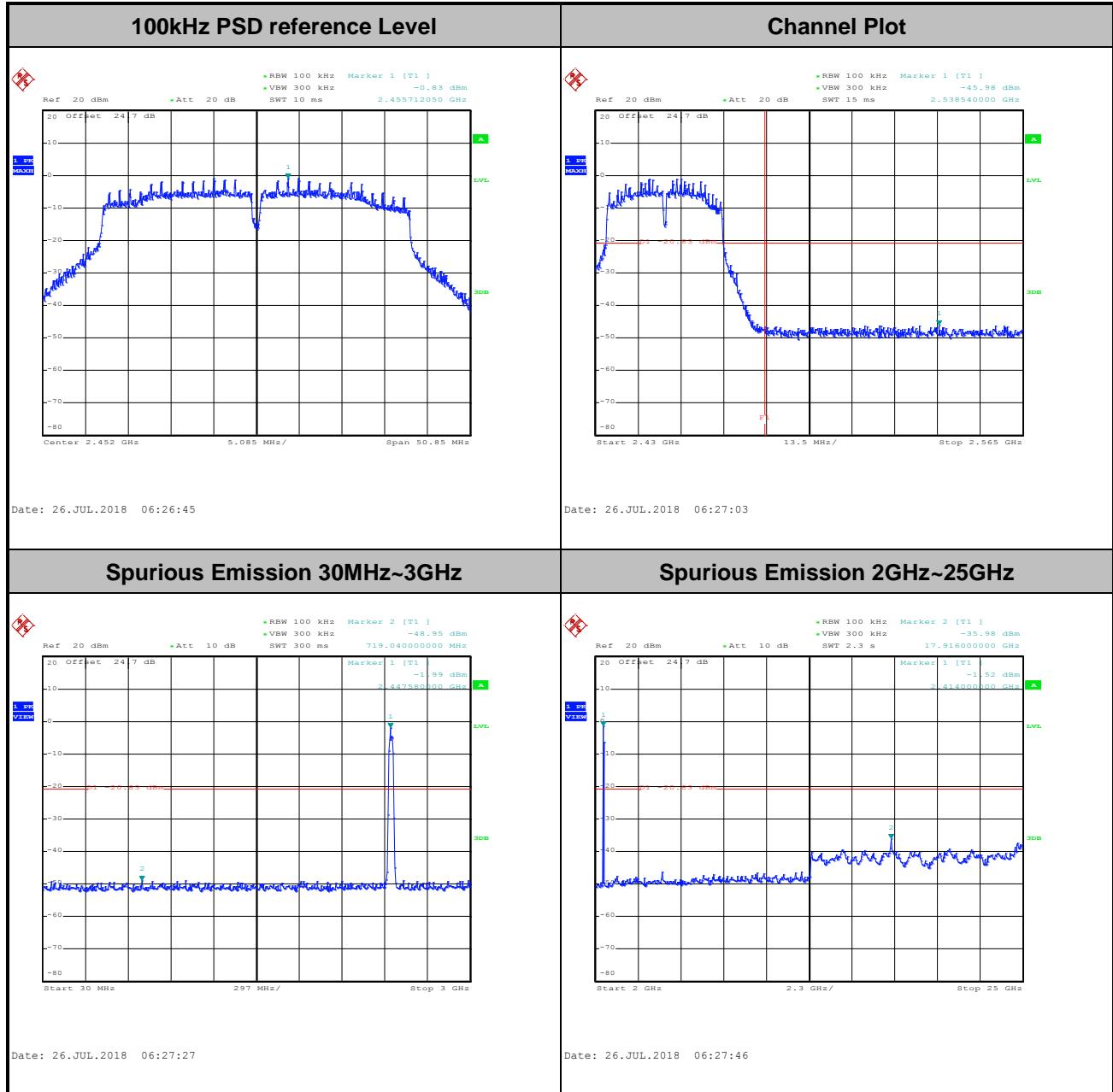
Spurious Emission 2GHz~25GHz



Date: 26.JUL.2018 06:22:50



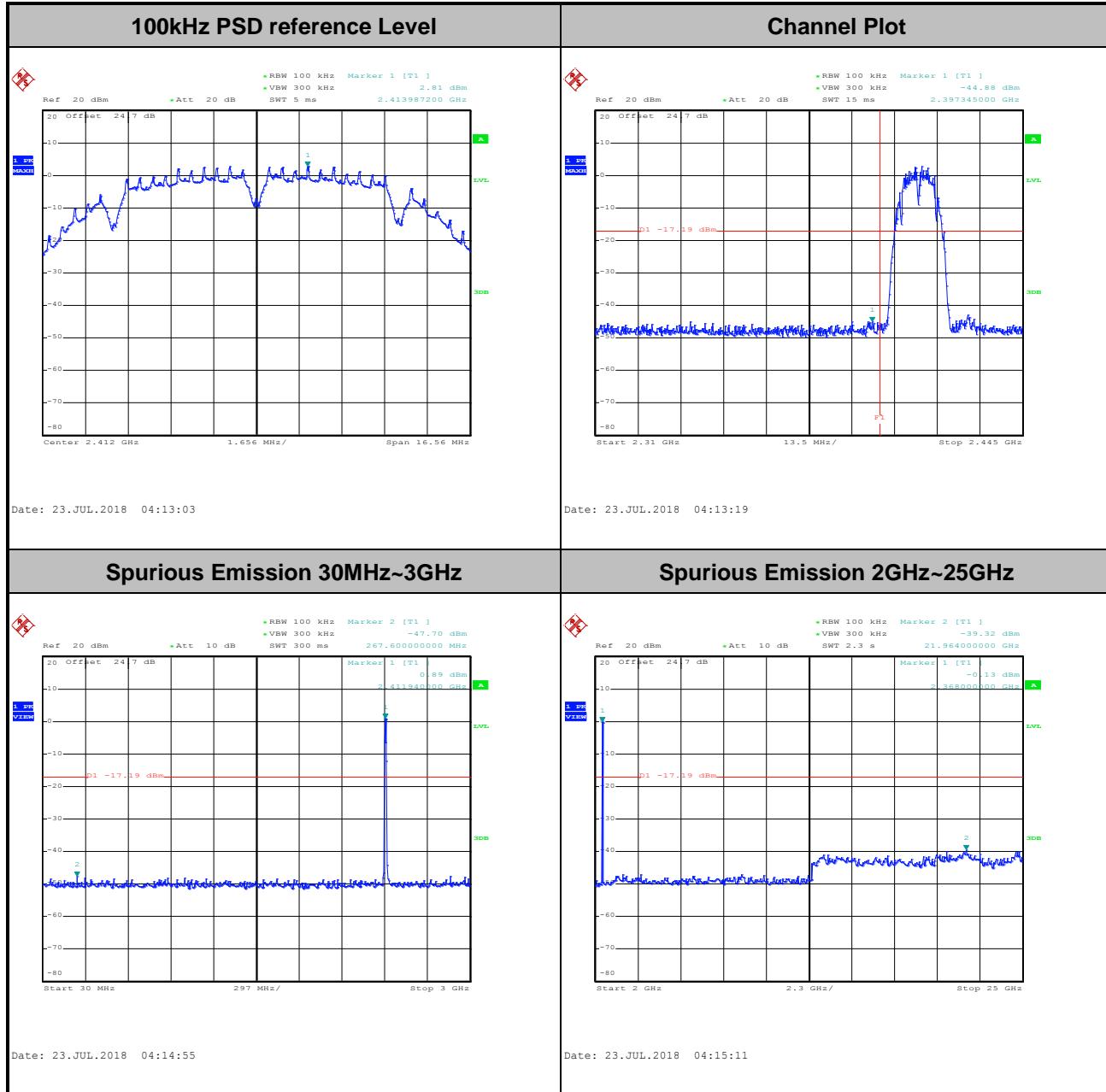
Number of TX :	1	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





Number of TX = 2, Ant. 1 (Measured)

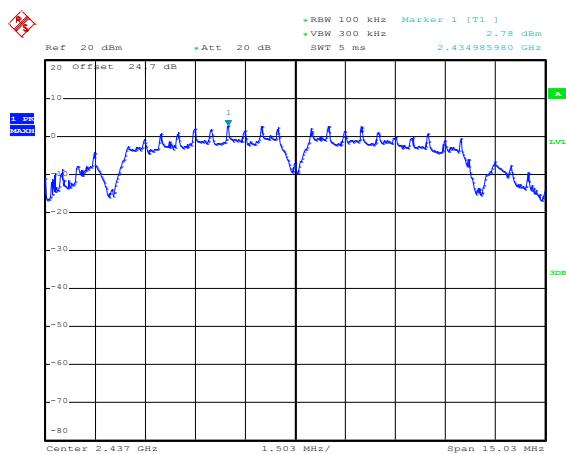
Number of TX	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





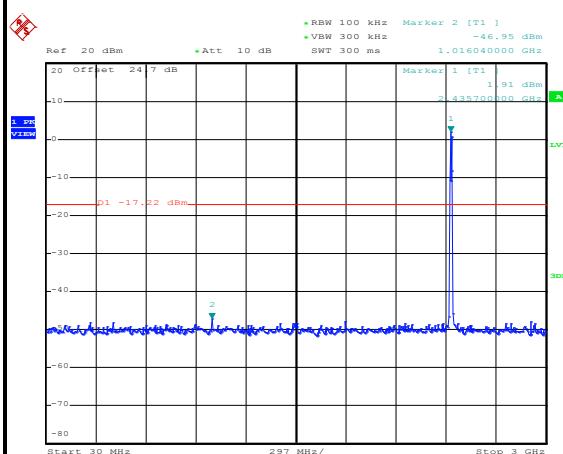
Number of TX	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



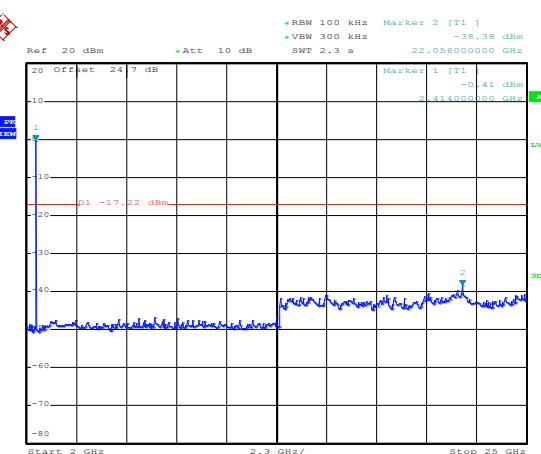
Date: 23.JUL.2018 04:24:18

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 04:24:52

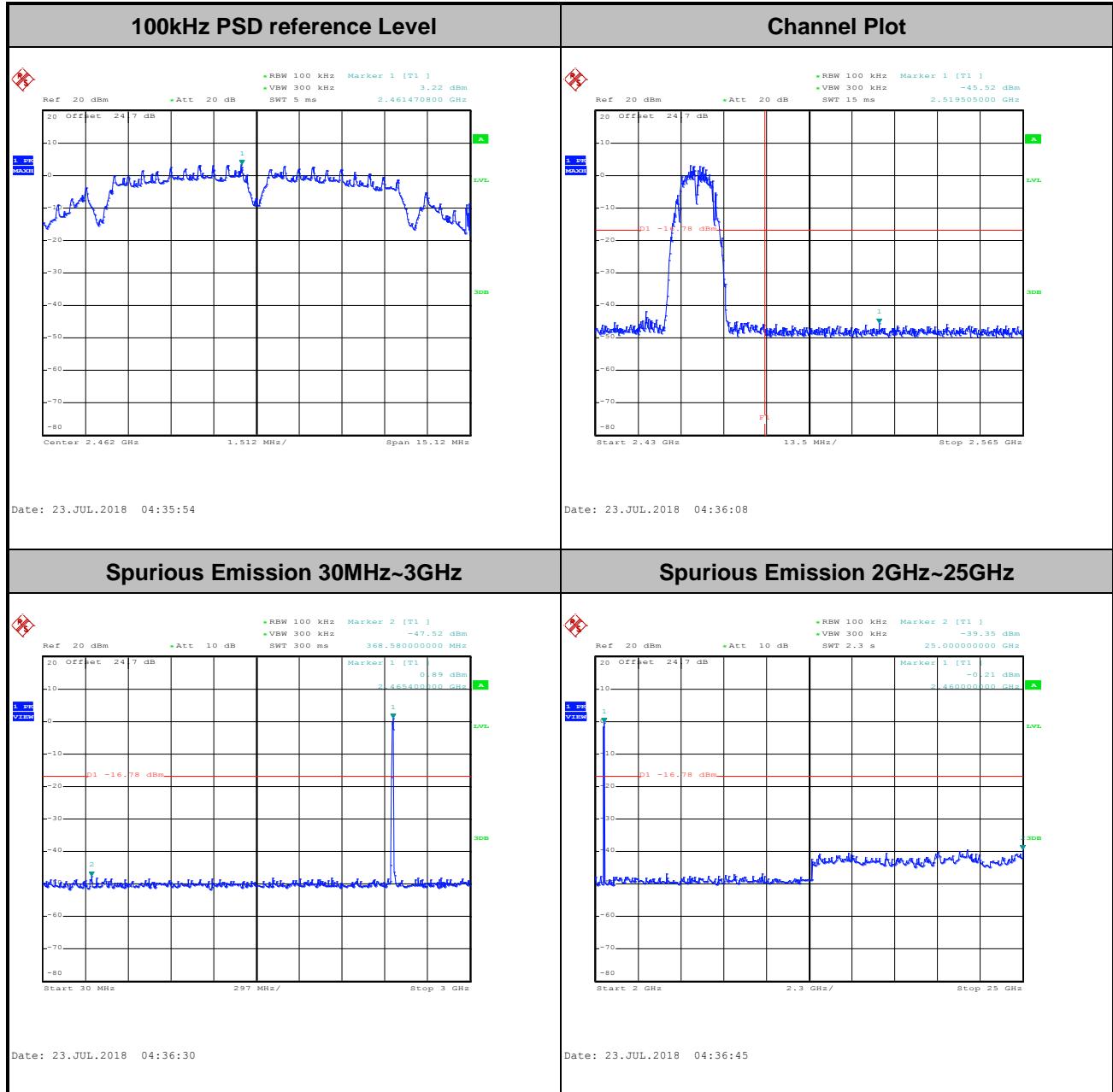
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 04:25:10

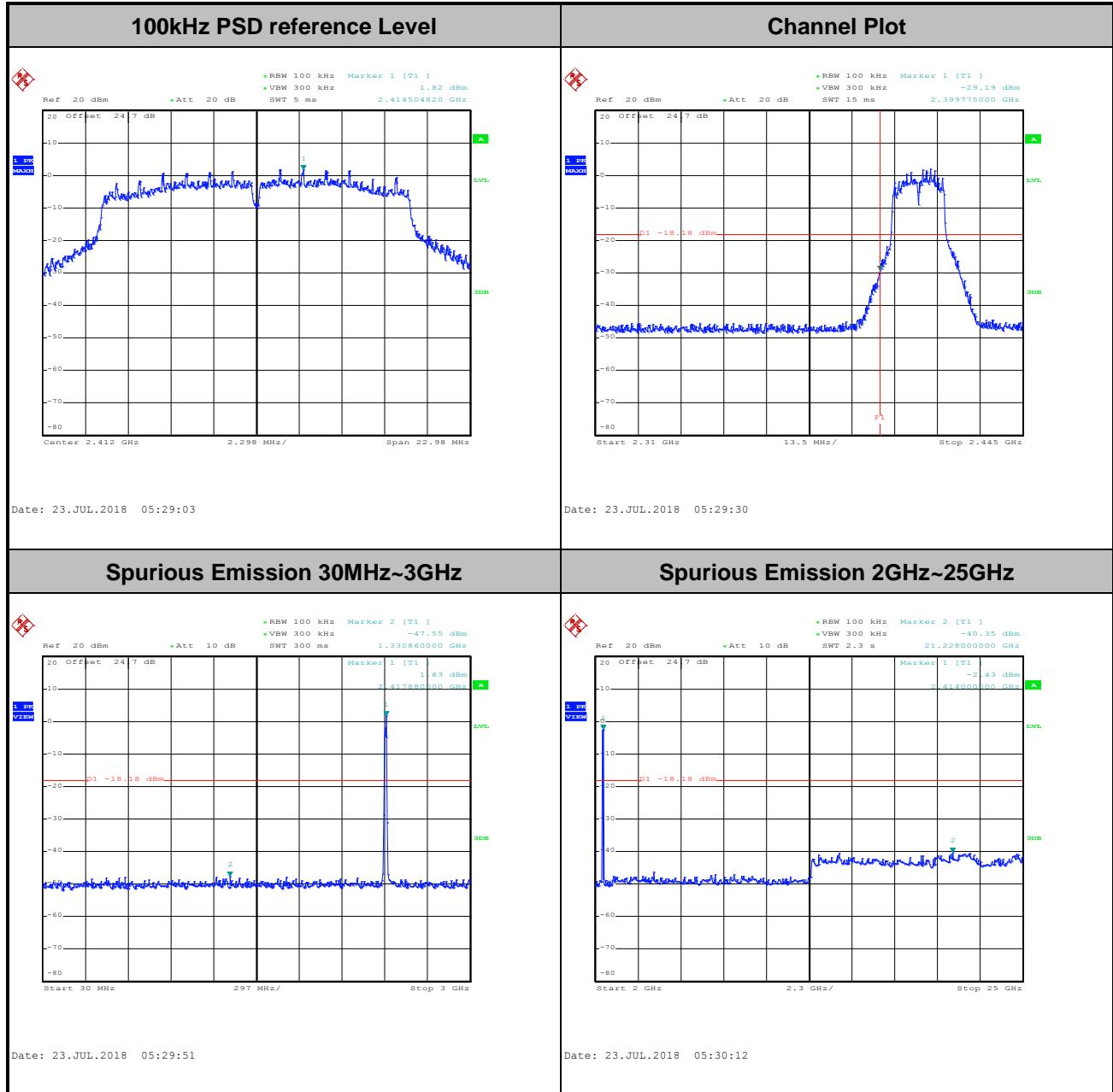


Number of TX	2	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





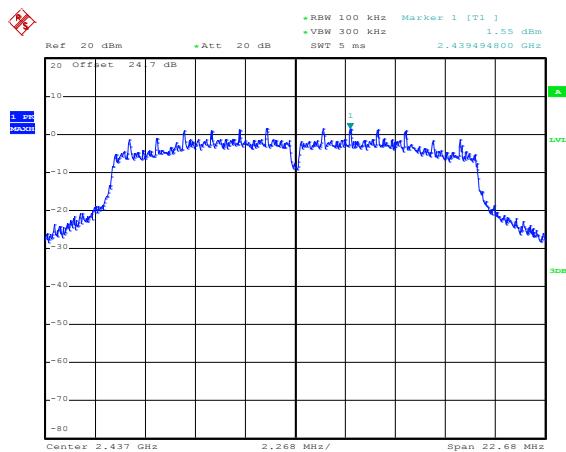
Number of TX	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





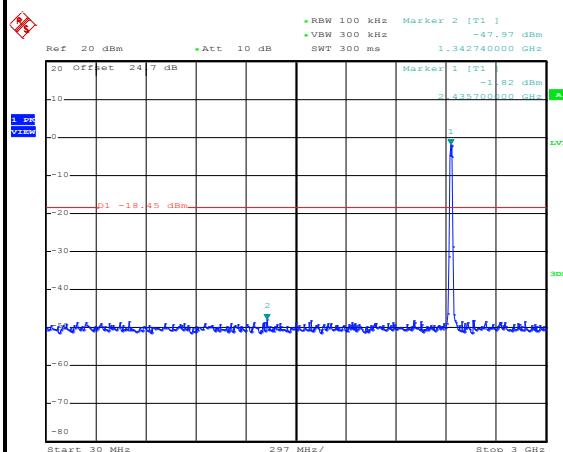
Number of TX	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



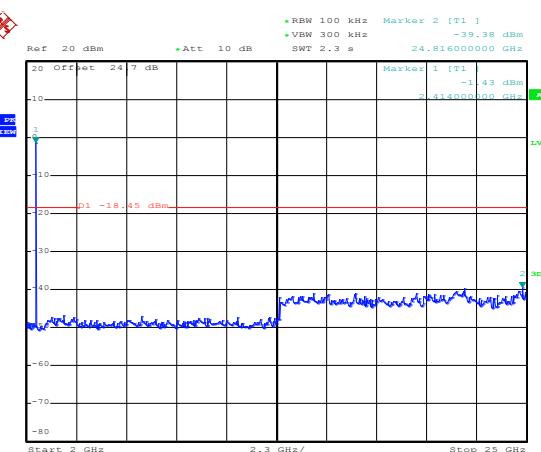
Date: 23.JUL.2018 05:38:27

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 05:38:56

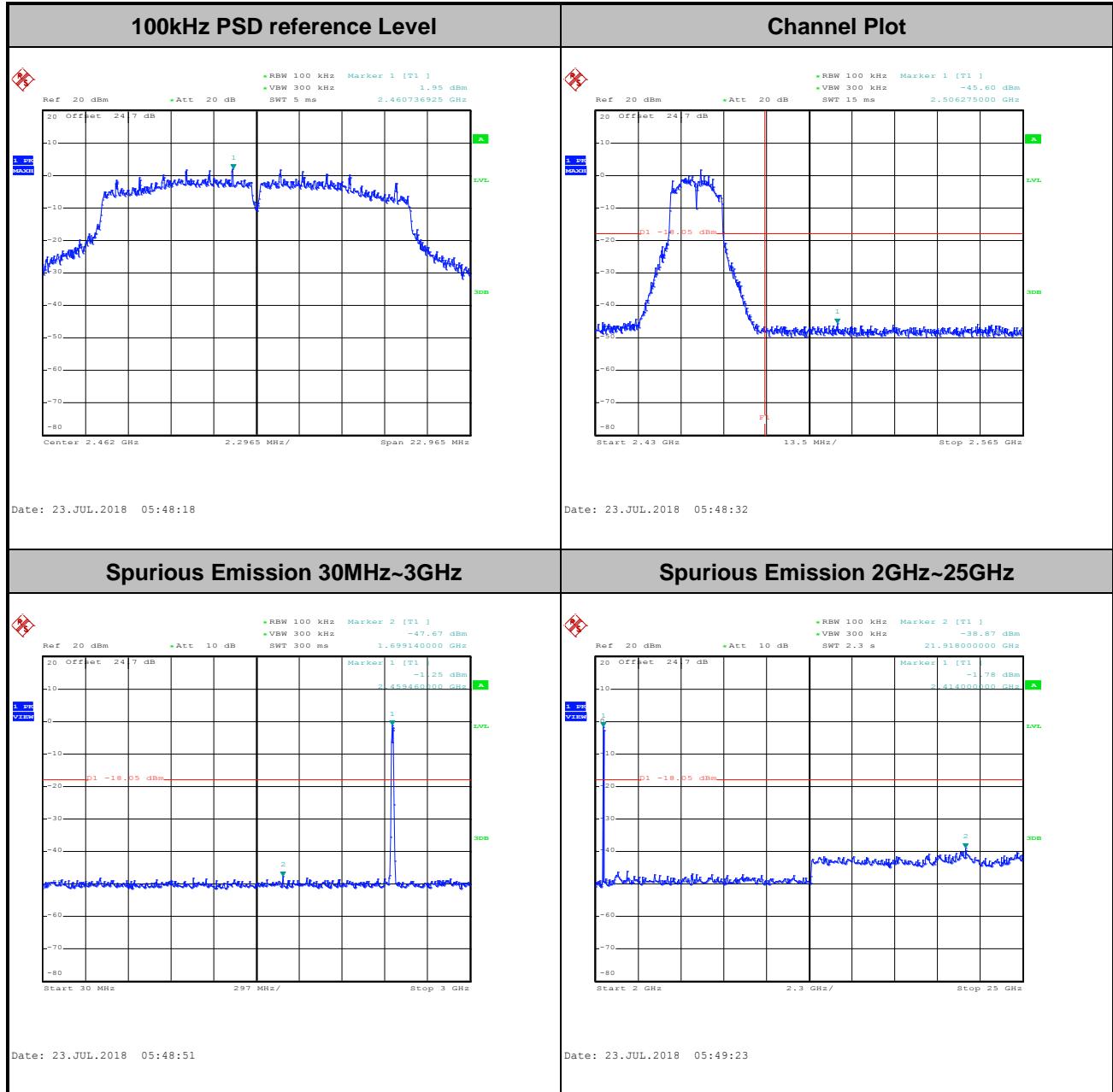
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 05:39:27

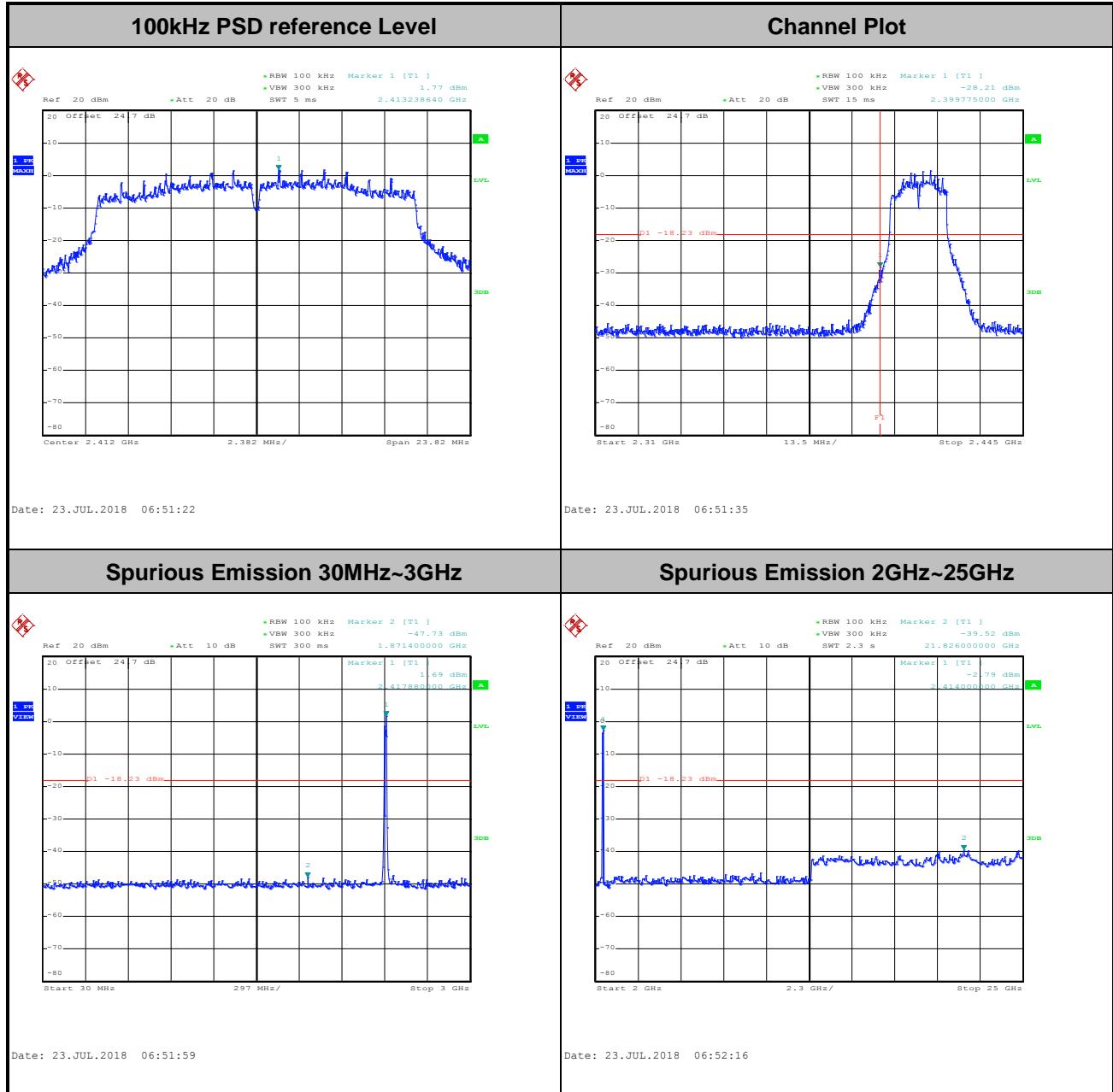


Number of TX	2	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





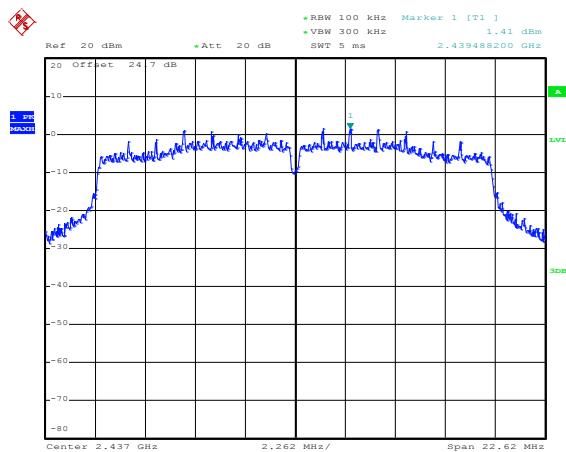
Number of TX	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





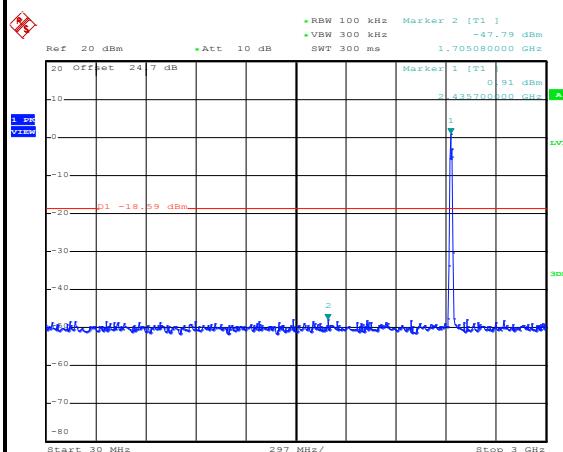
Number of TX	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



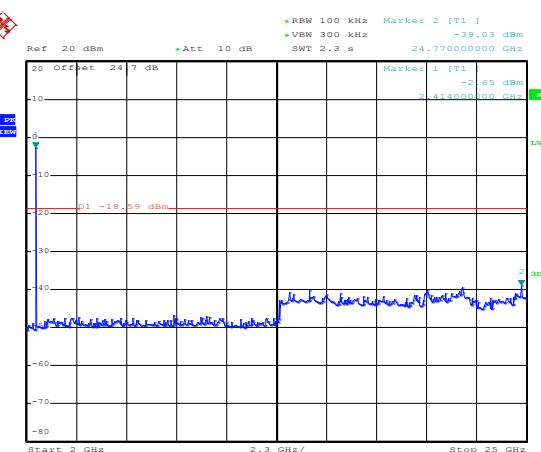
Date: 23.JUL.2018 07:00:57

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 07:01:16

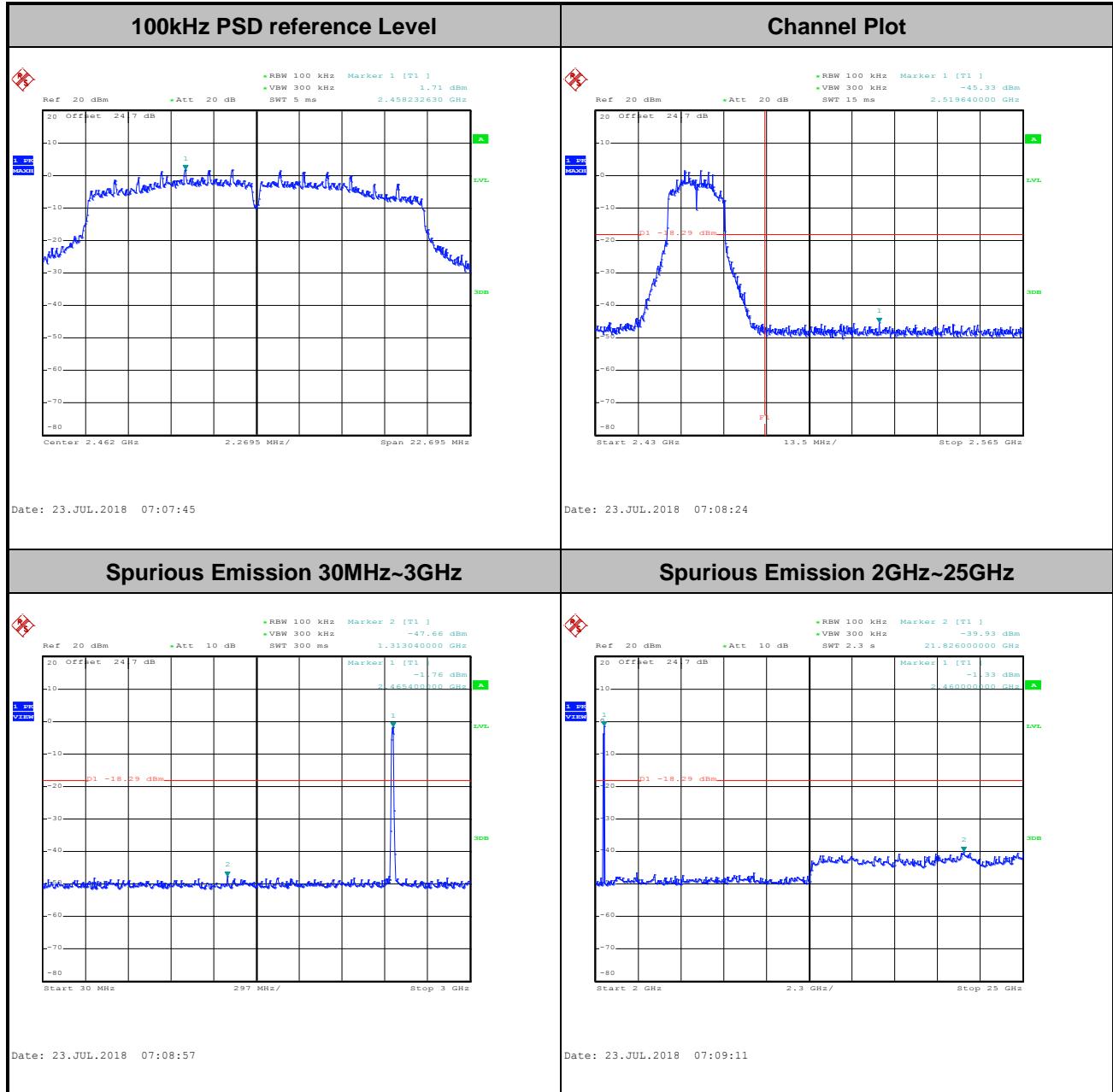
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 07:01:31

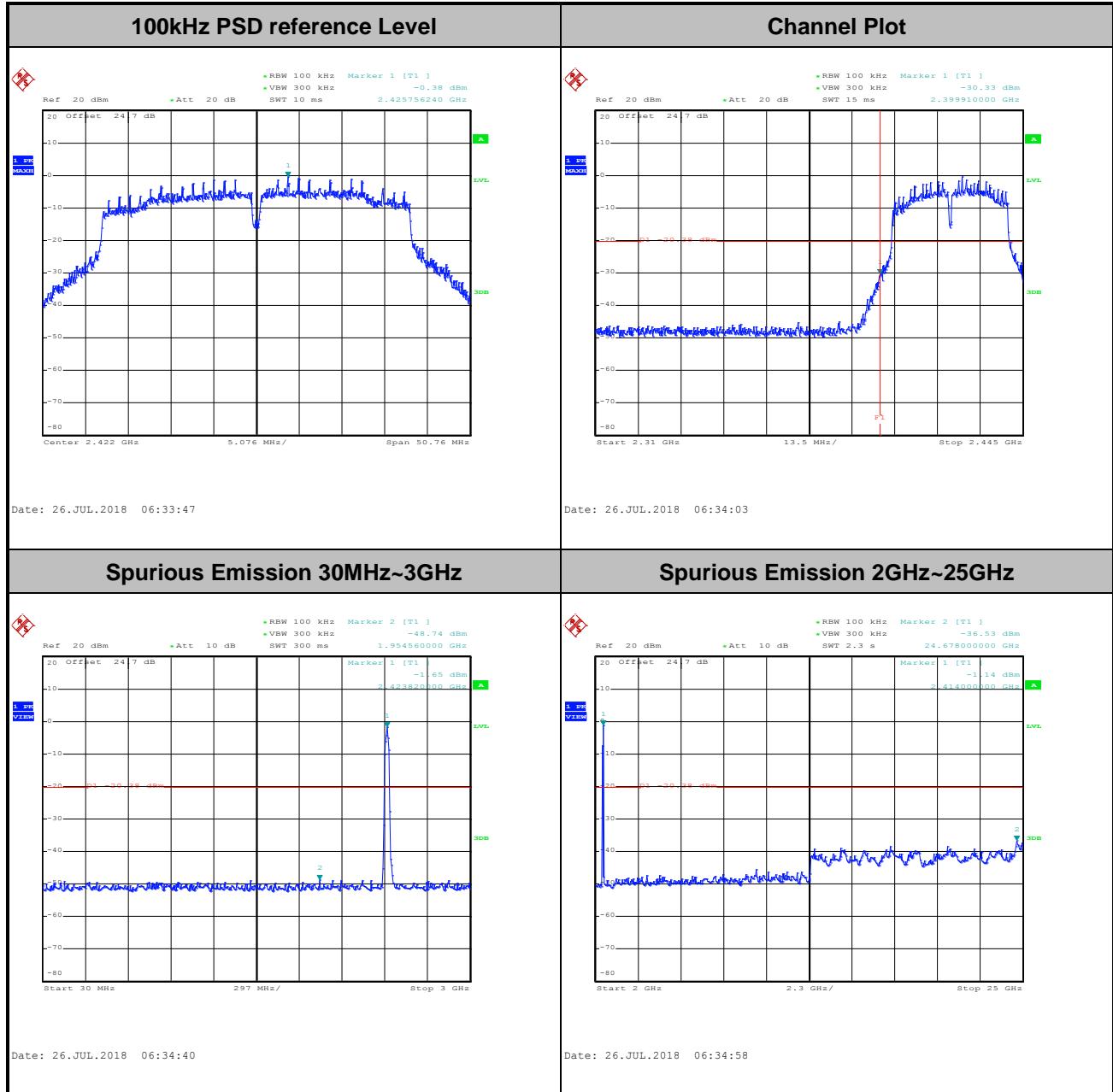


Number of TX	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





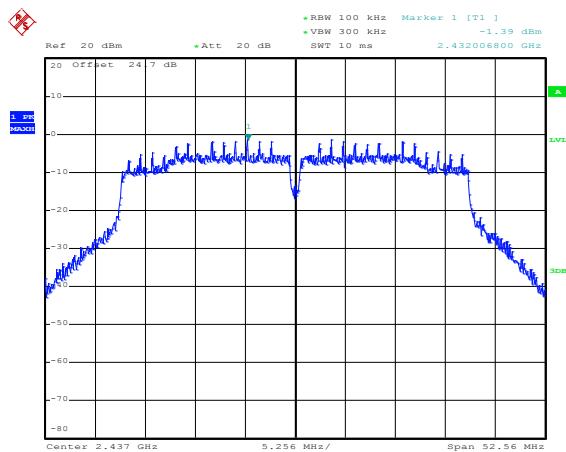
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





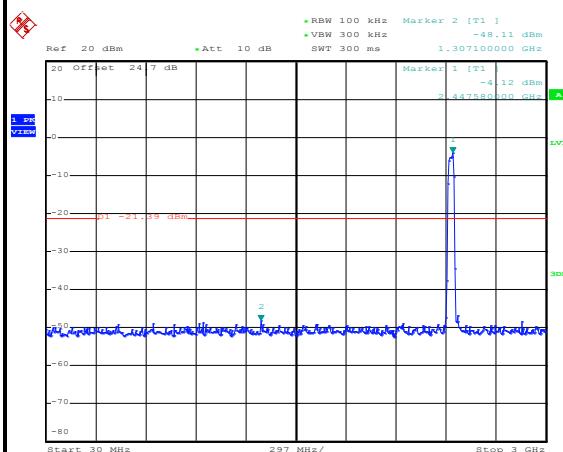
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



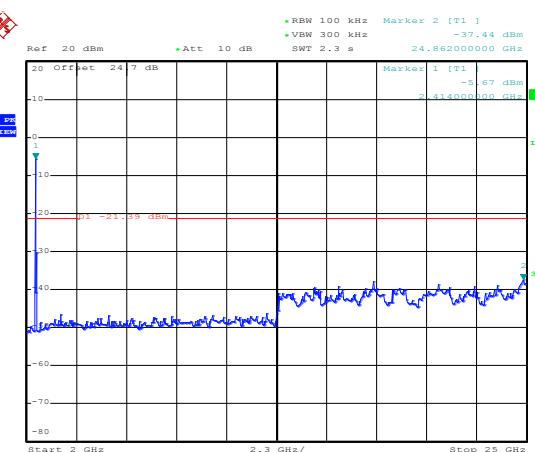
Date: 26.JUL.2018 06:41:33

Spurious Emission 30MHz~3GHz



Date: 26.JUL.2018 06:42:06

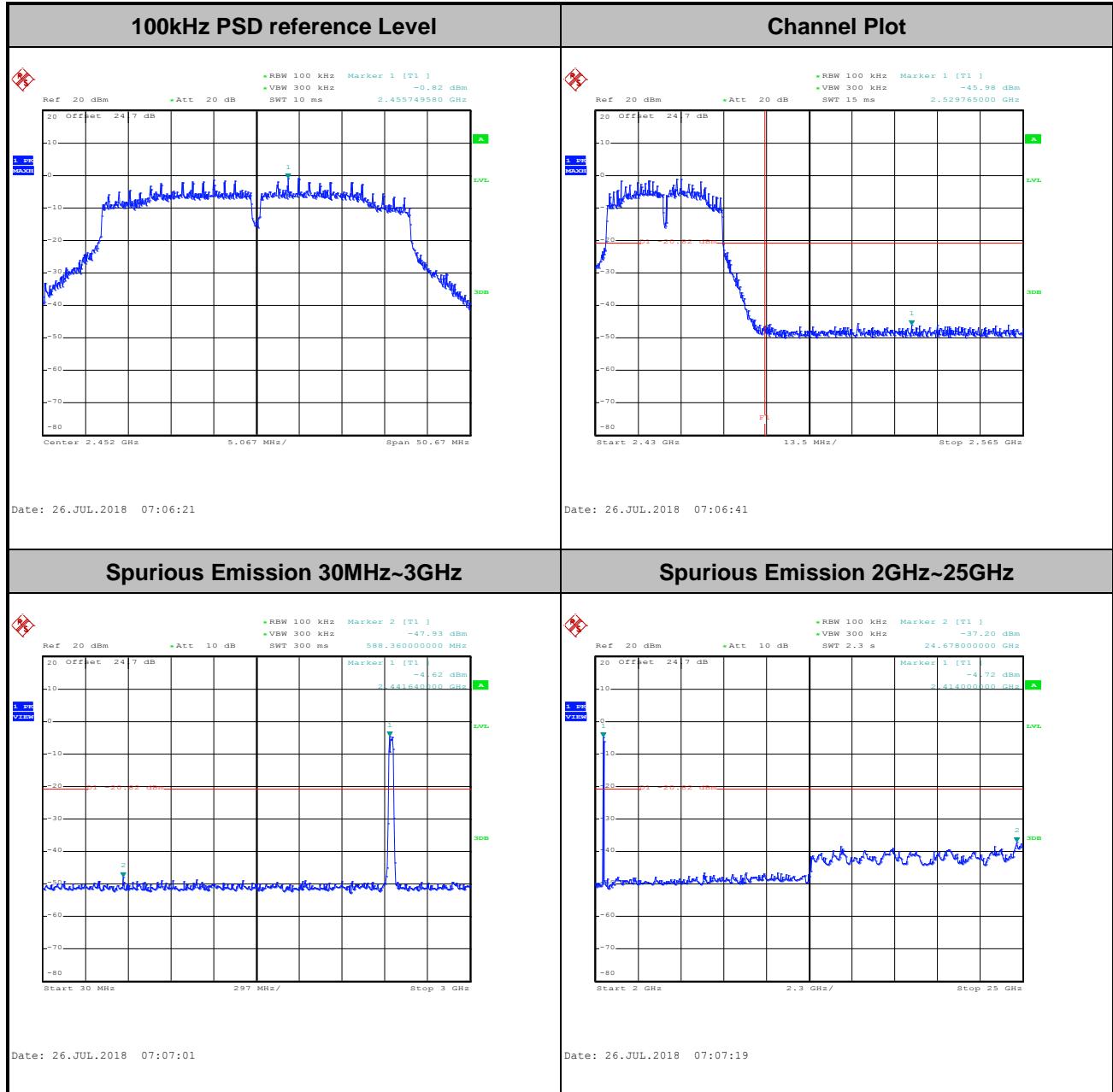
Spurious Emission 2GHz~25GHz



Date: 26.JUL.2018 06:42:26



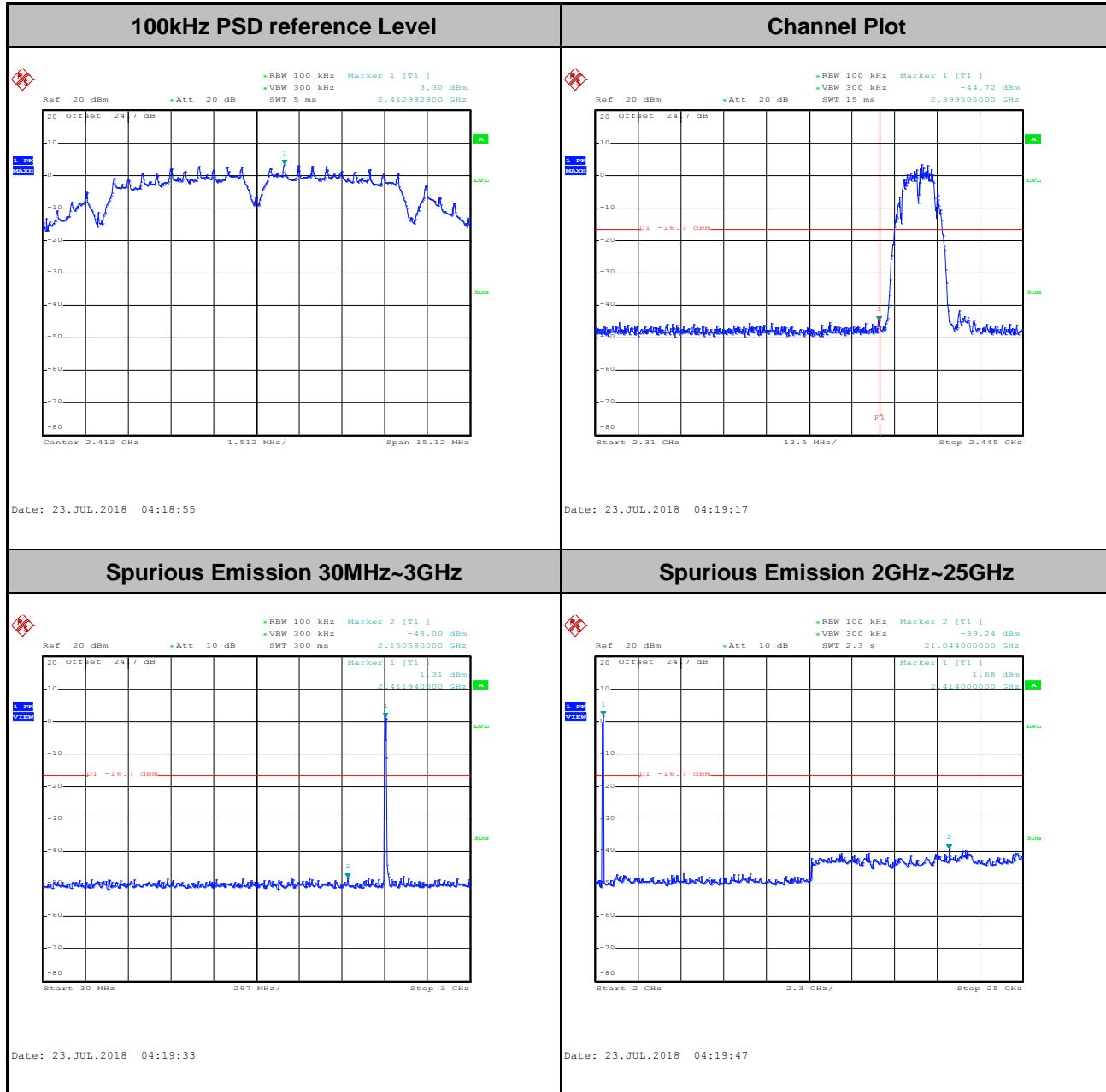
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





Number of TX = 2, Ant. 2 (Measured)

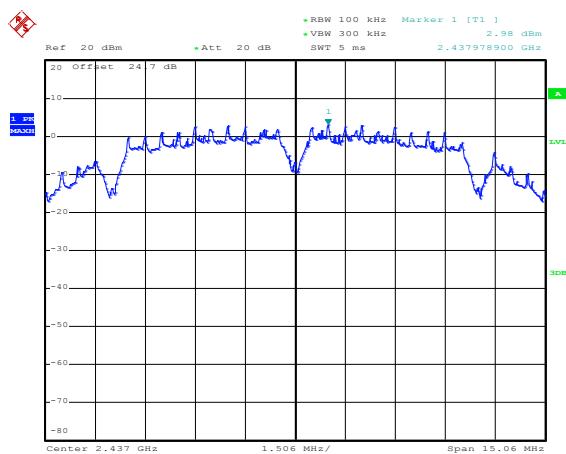
Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu



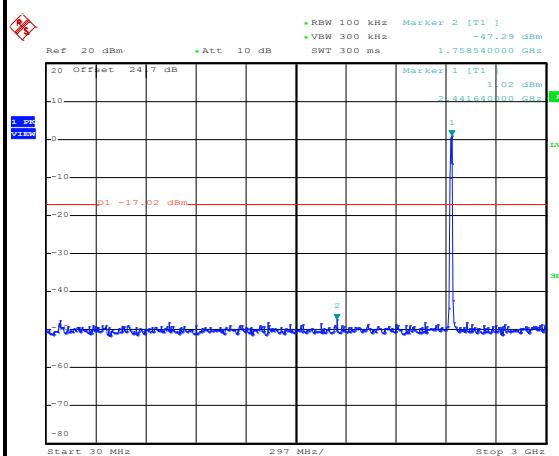


Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

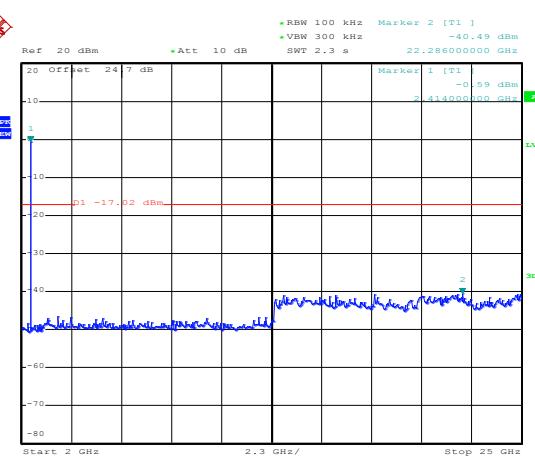
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz

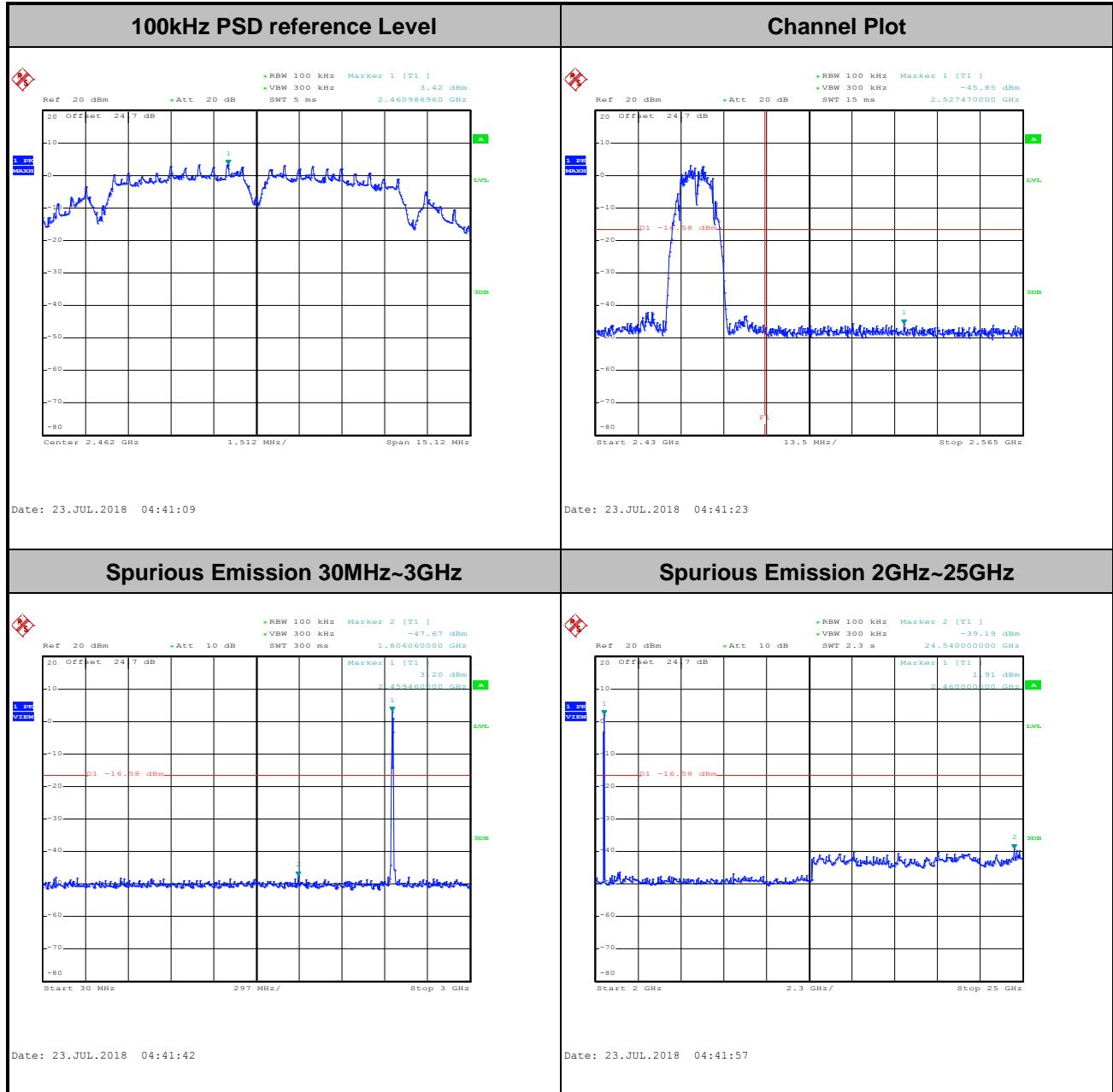


Spurious Emission 2GHz~25GHz



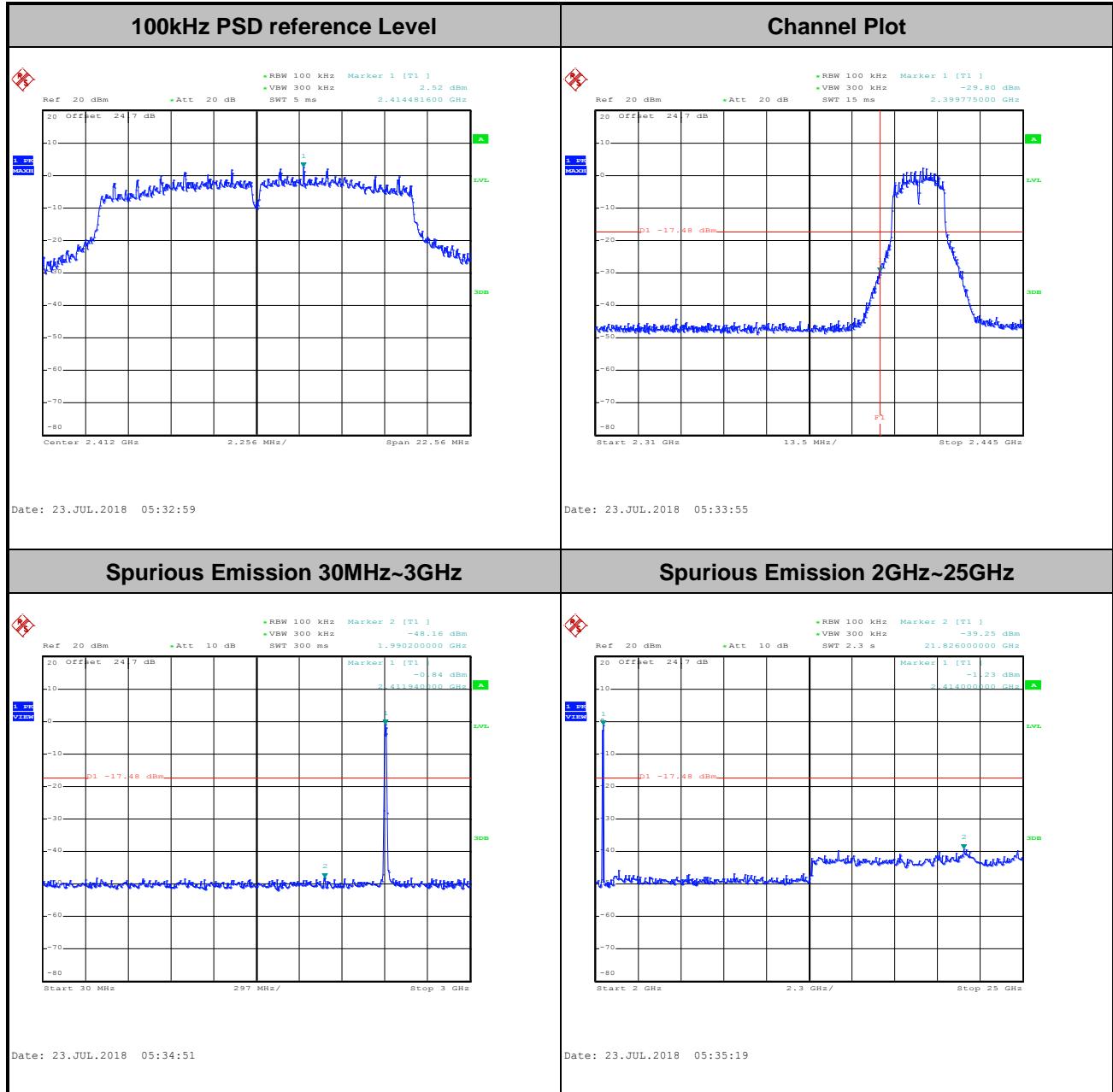


Number of TX :	2	Ant. :	2
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





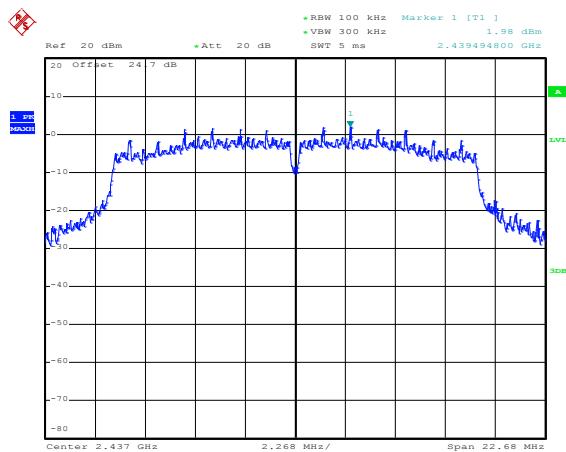
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





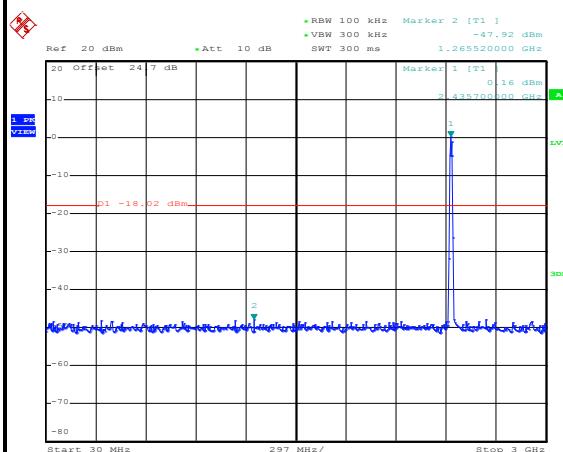
Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



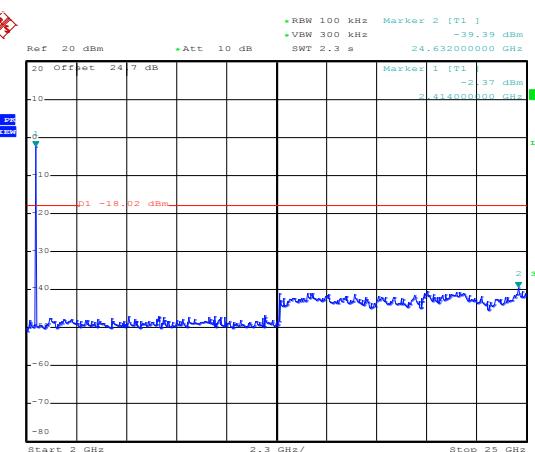
Date: 23.JUL.2018 05:41:43

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 05:42:01

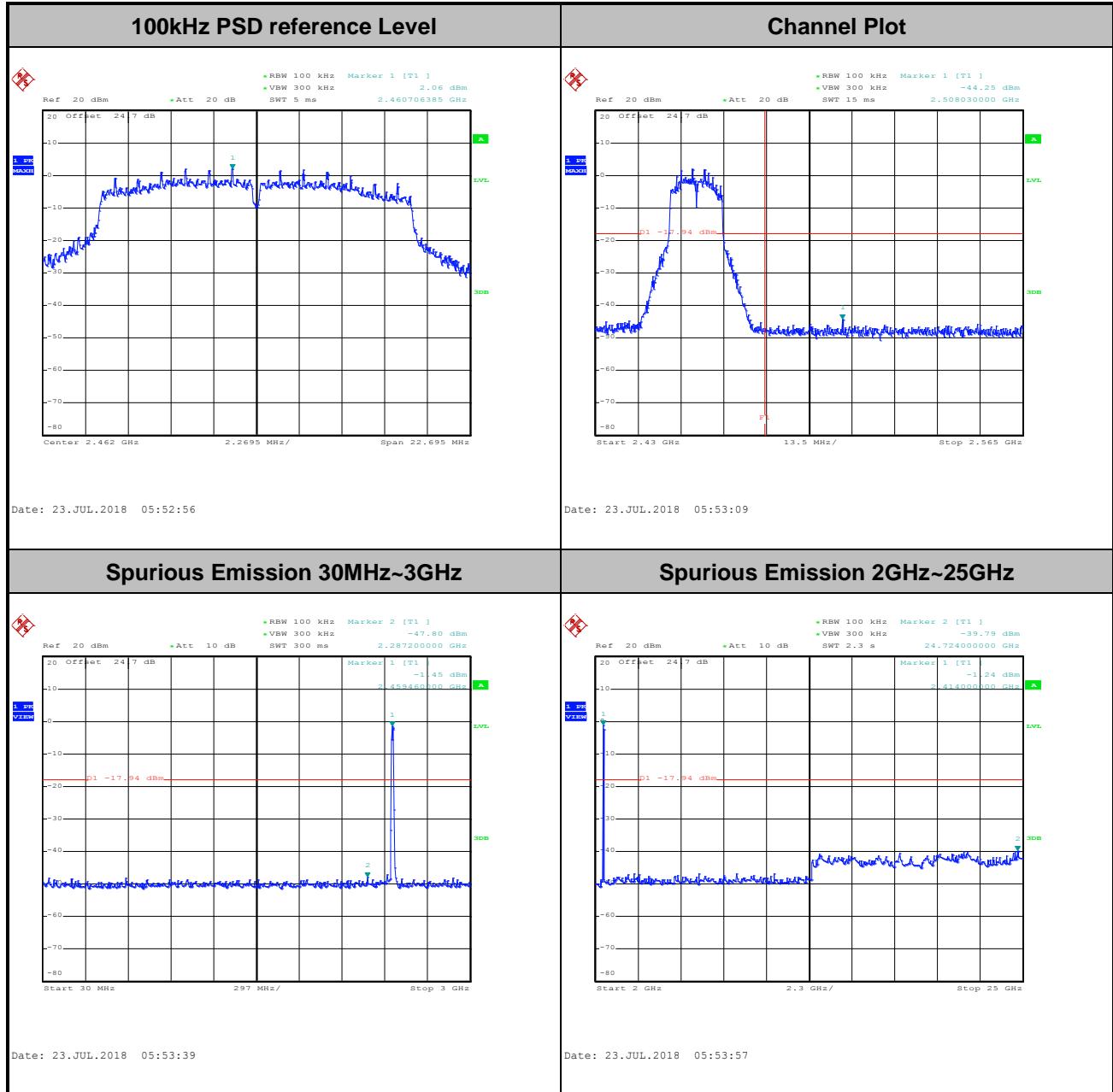
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 05:42:32

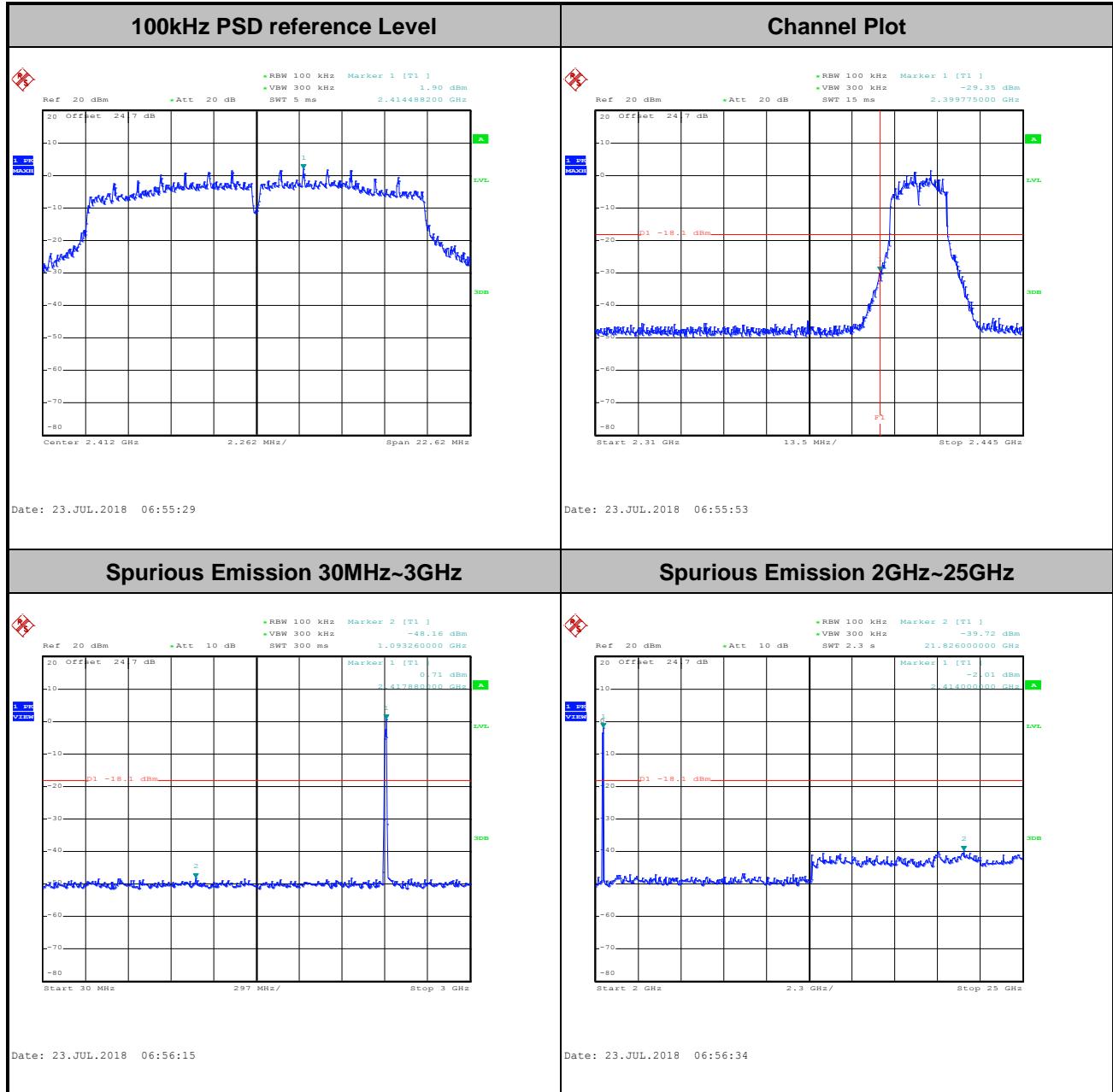


Number of TX :	2	Ant. :	2
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





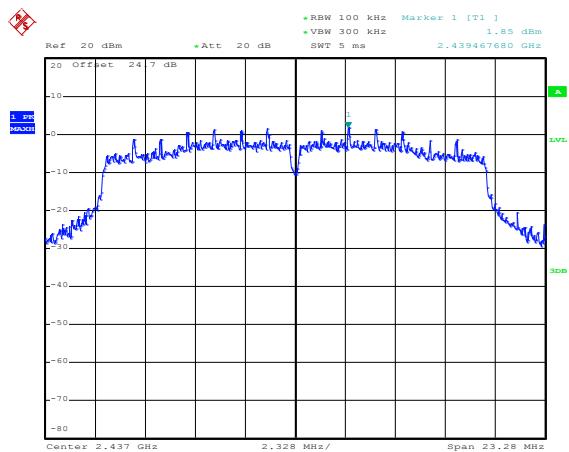
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





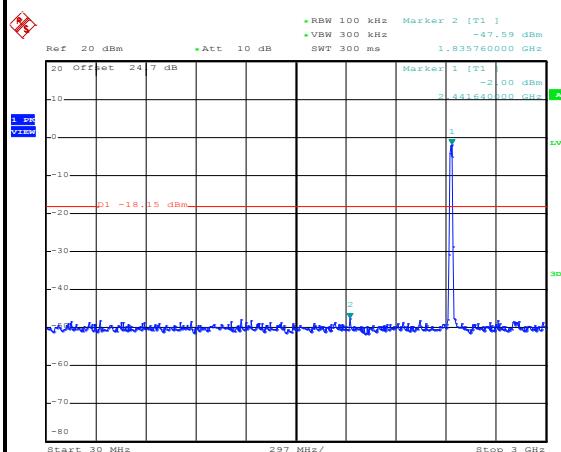
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



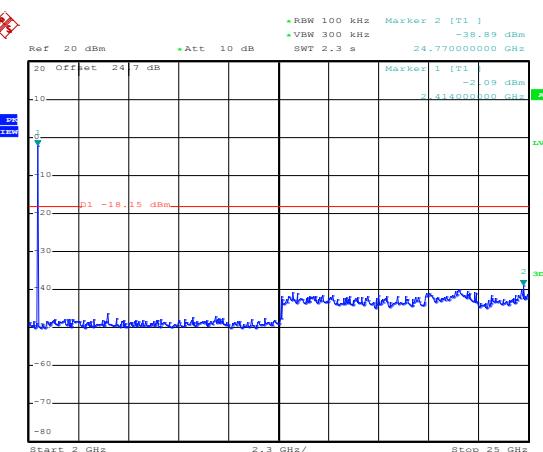
Date: 23.JUL.2018 07:03:51

Spurious Emission 30MHz~3GHz



Date: 23.JUL.2018 07:04:12

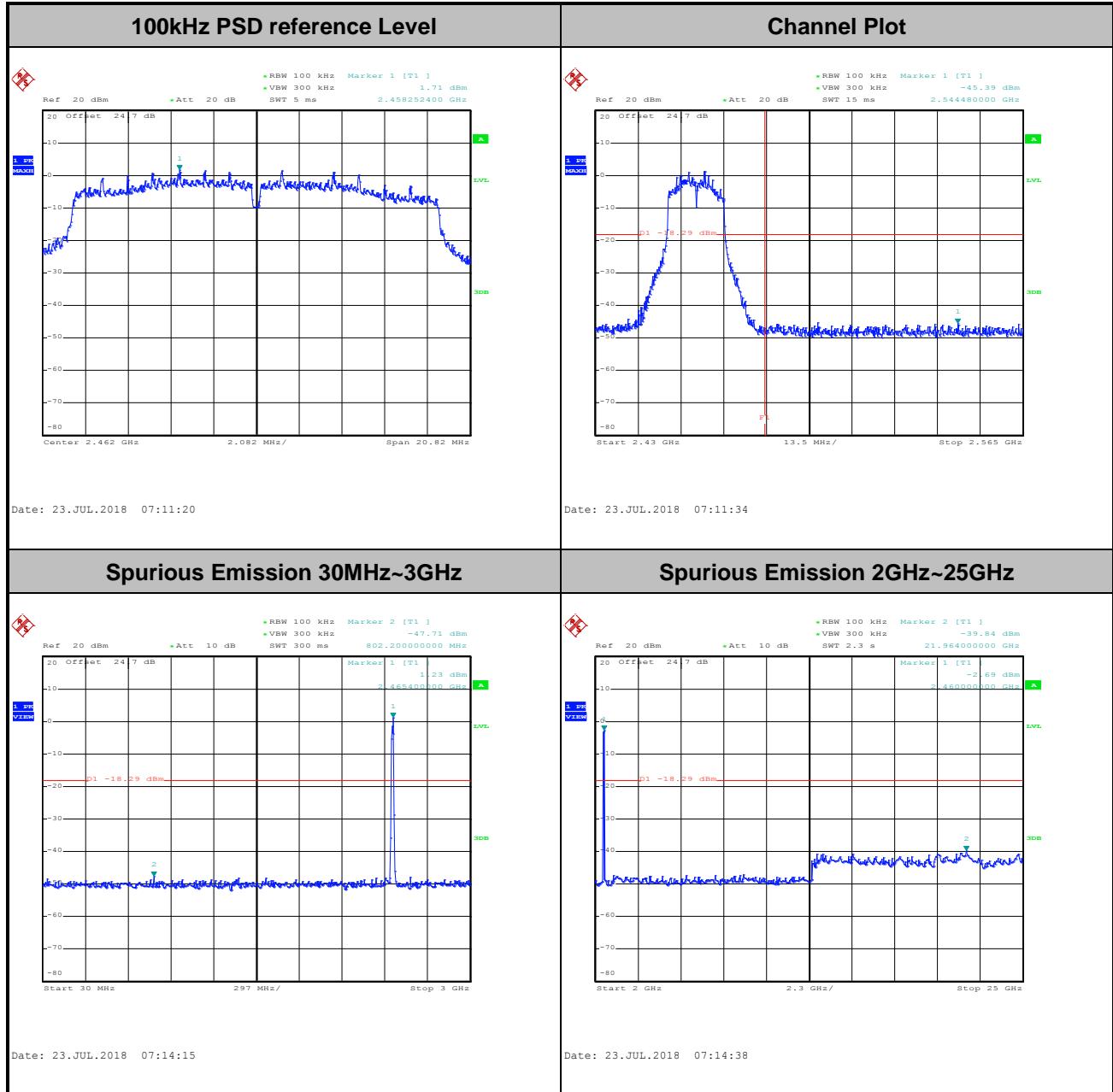
Spurious Emission 2GHz~25GHz



Date: 23.JUL.2018 07:04:28

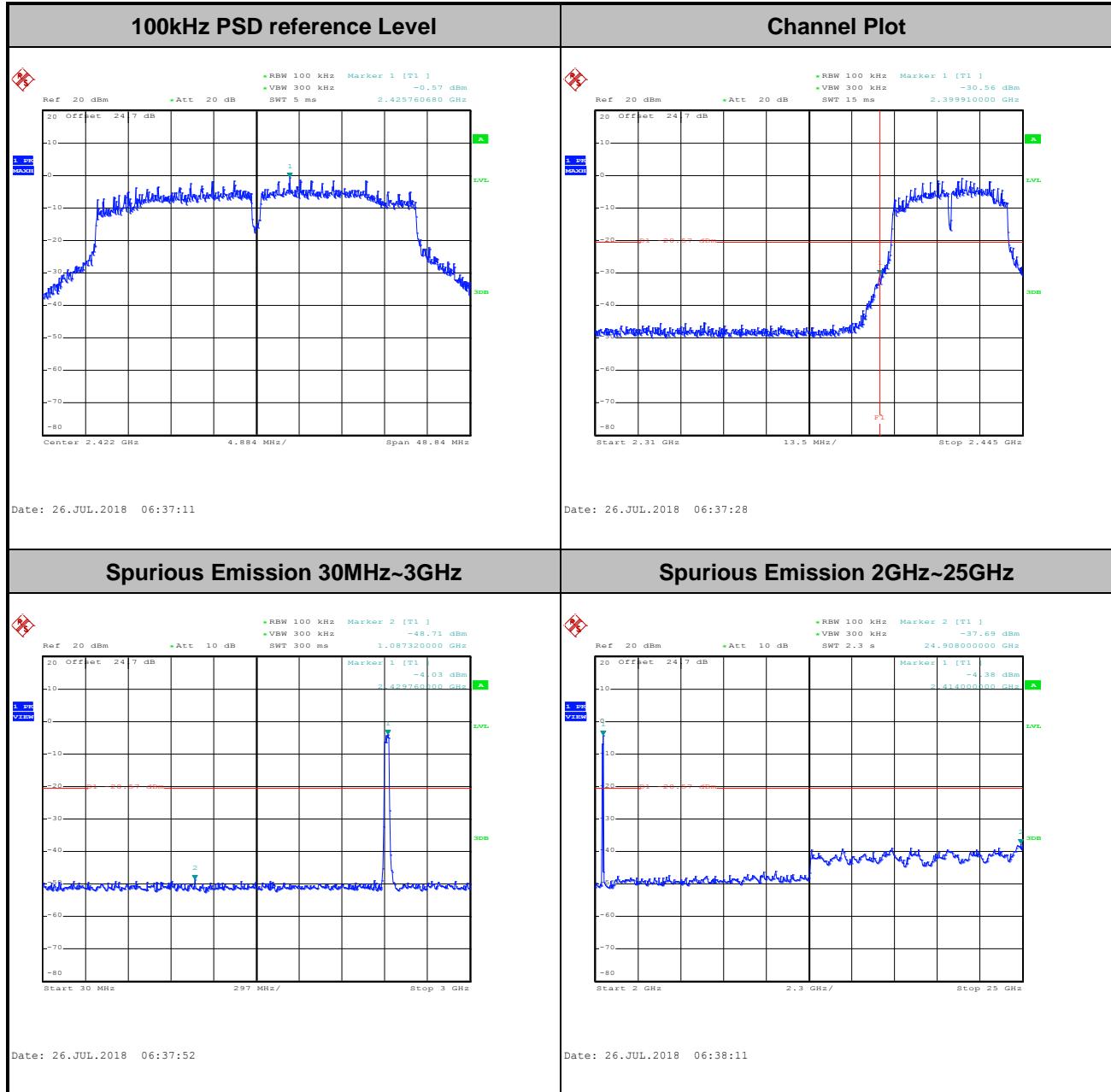


Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





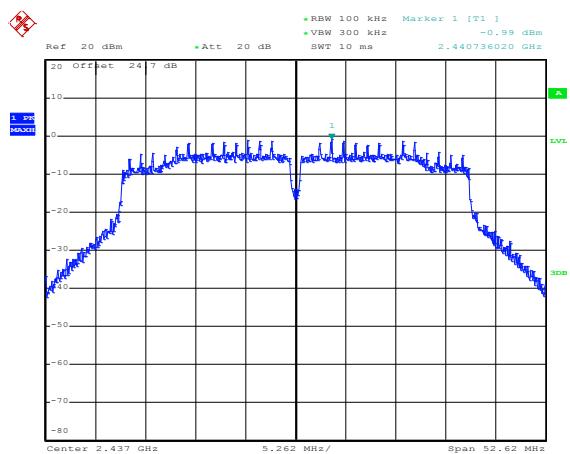
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





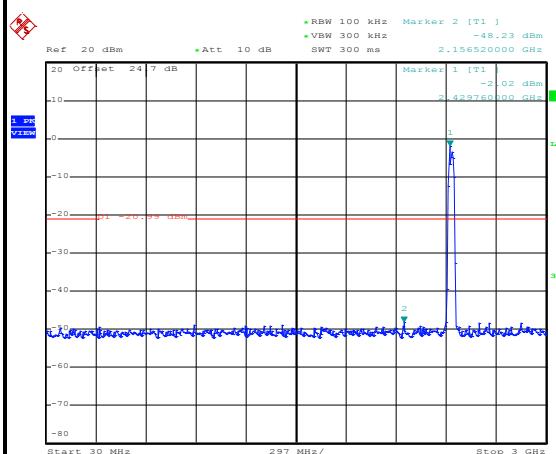
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu

100kHz PSD reference Level



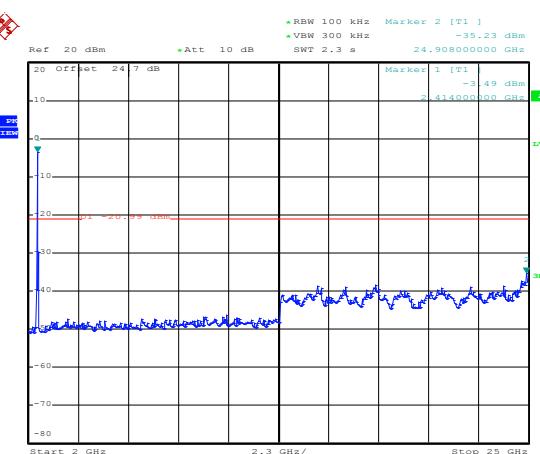
Date: 26.JUL.2018 06:51:28

Spurious Emission 30MHz~3GHz



Date: 26.JUL.2018 06:54:55

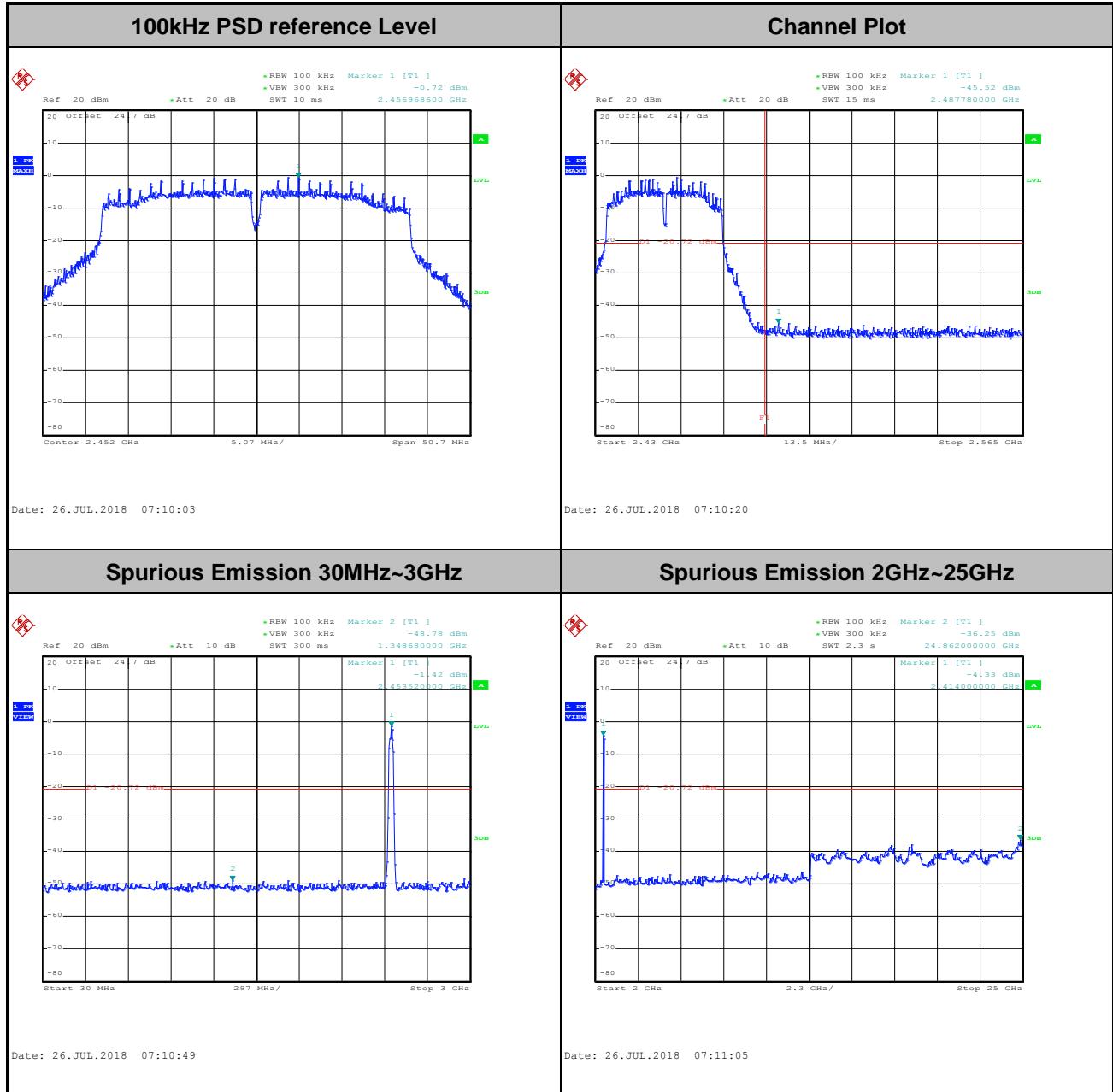
Spurious Emission 2GHz~25GHz



Date: 26.JUL.2018 06:57:09



Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Rebecca Li, Luffy Lin, and Derek Hsu





3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

See list of measuring equipment of this test report.



3.5.3 Test Procedures

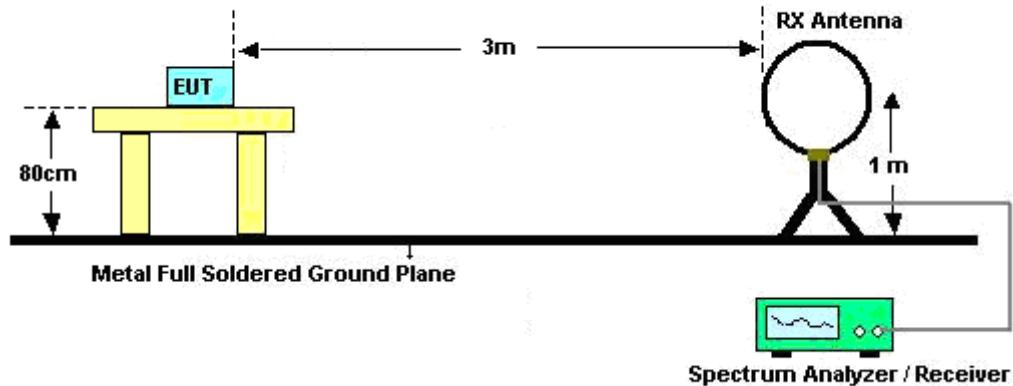
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

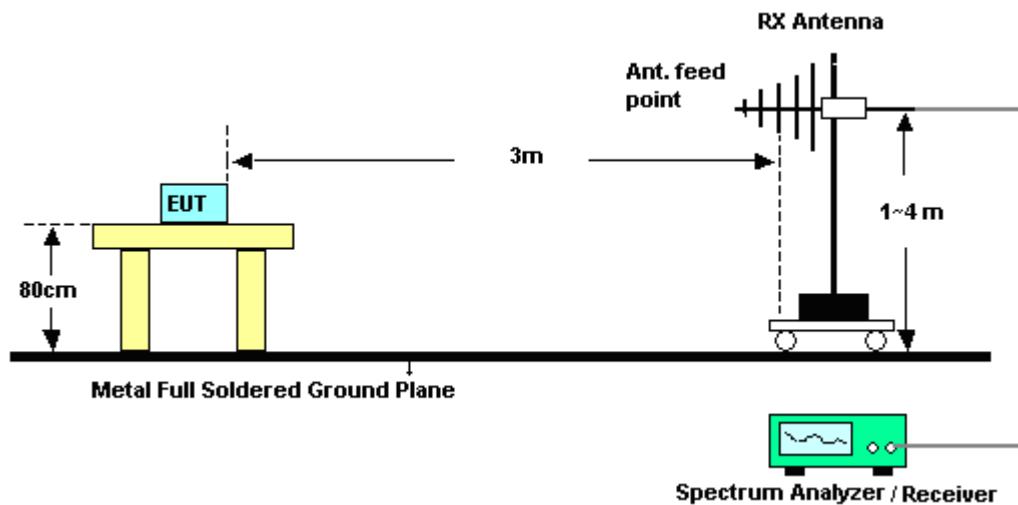
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

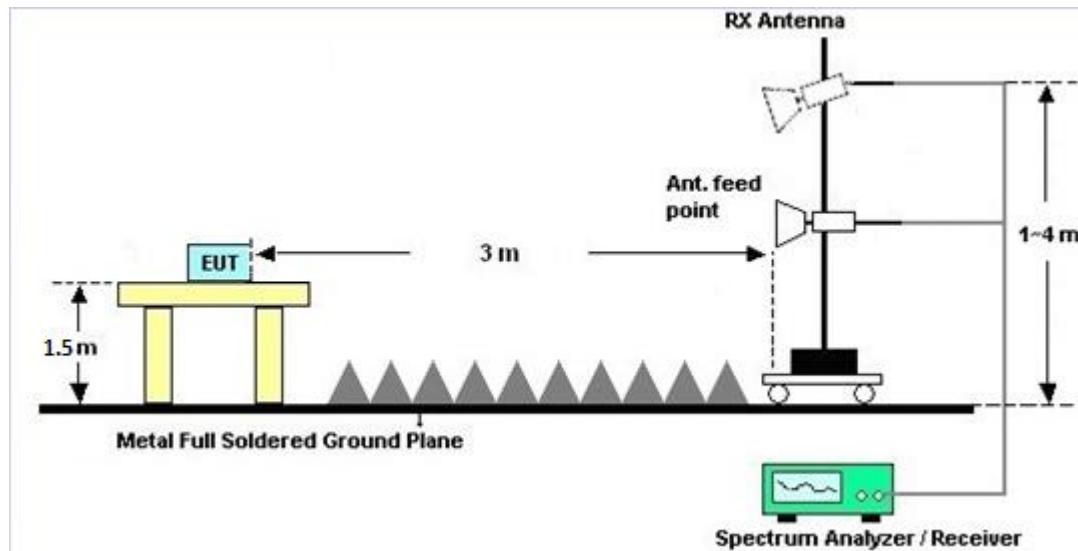
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

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

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.



3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

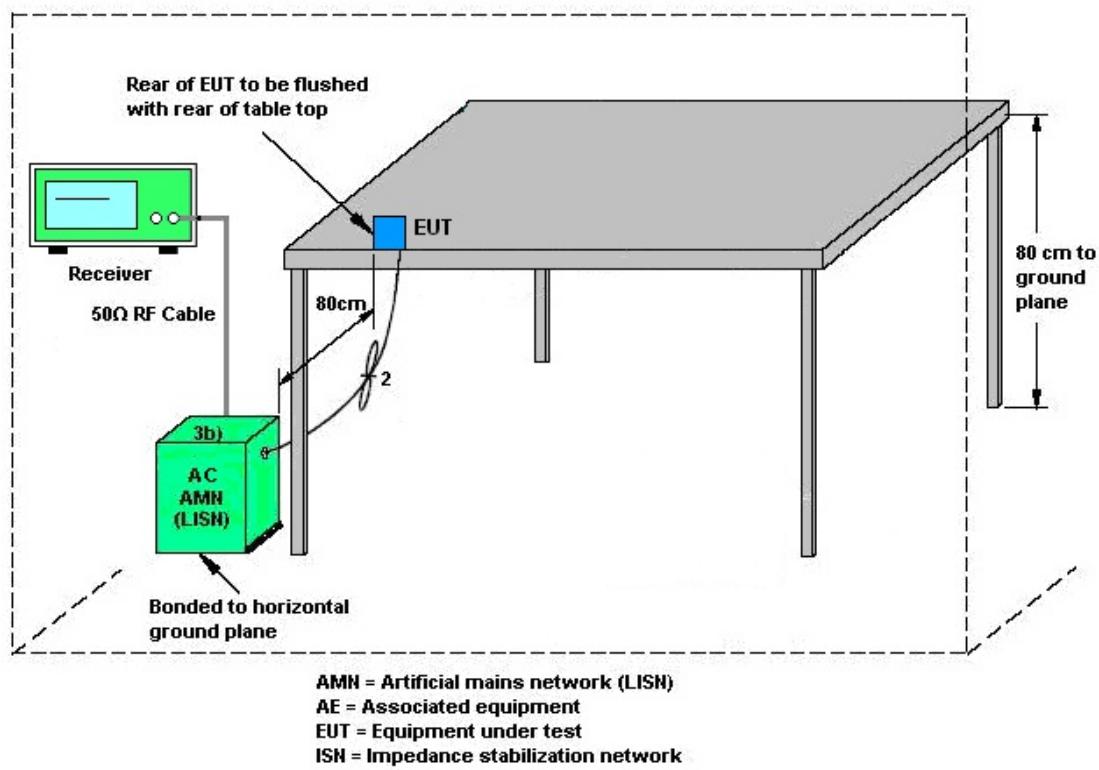
3.6.2 Measuring Instruments

See list of measuring equipment of this test report.

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

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 GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

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

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

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

The directional gain “DG” is calculated as following table.

<CDD Modes>						
	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
2.4 GHz	2.70	0.90	2.70	4.86	0.00	0.00

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

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



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1240001	N/A	Sep. 07, 2017	Jun. 13, 2018~Aug. 24, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Jun. 13, 2018~Jul. 26, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Jun. 13, 2018~Aug. 24, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC1300484	N/A	Mar. 01, 2018	Jun. 13, 2018~Aug. 24, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jun. 20, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Jun. 20, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Jun. 20, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Jun. 20, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Jun. 20, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Jun. 20, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35419&03	30MHz to 1GHz	Dec. 18, 2017	Jun. 25, 2018~Jul. 03, 2018	Dec. 17, 2018	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 23, 2017	Jun. 25, 2018~Jul. 03, 2018	Aug. 22, 2018	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Nov. 10, 2017	Jun. 25, 2018~Jul. 03, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz ~ 18GHz	Apr. 25, 2018	Jun. 25, 2018~Jul. 03, 2018	Apr. 24, 2019	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1GHz	May 21, 2018	Jun. 25, 2018~Jul. 03, 2018	May 20, 2019	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 30, 2017	Jun. 25, 2018~Jul. 03, 2018	Oct. 29, 2018	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Apr. 17, 2018	Jun. 25, 2018~Jul. 03, 2018	Apr. 16, 2019	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jun. 25, 2018~Jul. 03, 2018	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek 3000		N/A	0~360 Degree	N/A	Jun. 25, 2018~Jul. 03, 2018	N/A	Radiation (03CH07-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jun. 25, 2018~Jul. 03, 2018	Jul. 17, 2018	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	18GHz- 40GHz	Nov. 10, 2017	Jun. 25, 2018~Jul. 03, 2018	Nov. 09, 2018	Radiation (03CH07-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 16, 2018	Jun. 25, 2018~Jul. 03, 2018	Jan. 15, 2019	Radiation (03CH07-HY)
Software	Audix	E3 6.2009-8-24	80504004656 H	N/A	N/A	Jun. 25, 2018~Jul. 03, 2018	N/A	Radiation (03CH07-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	5.70
---	------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

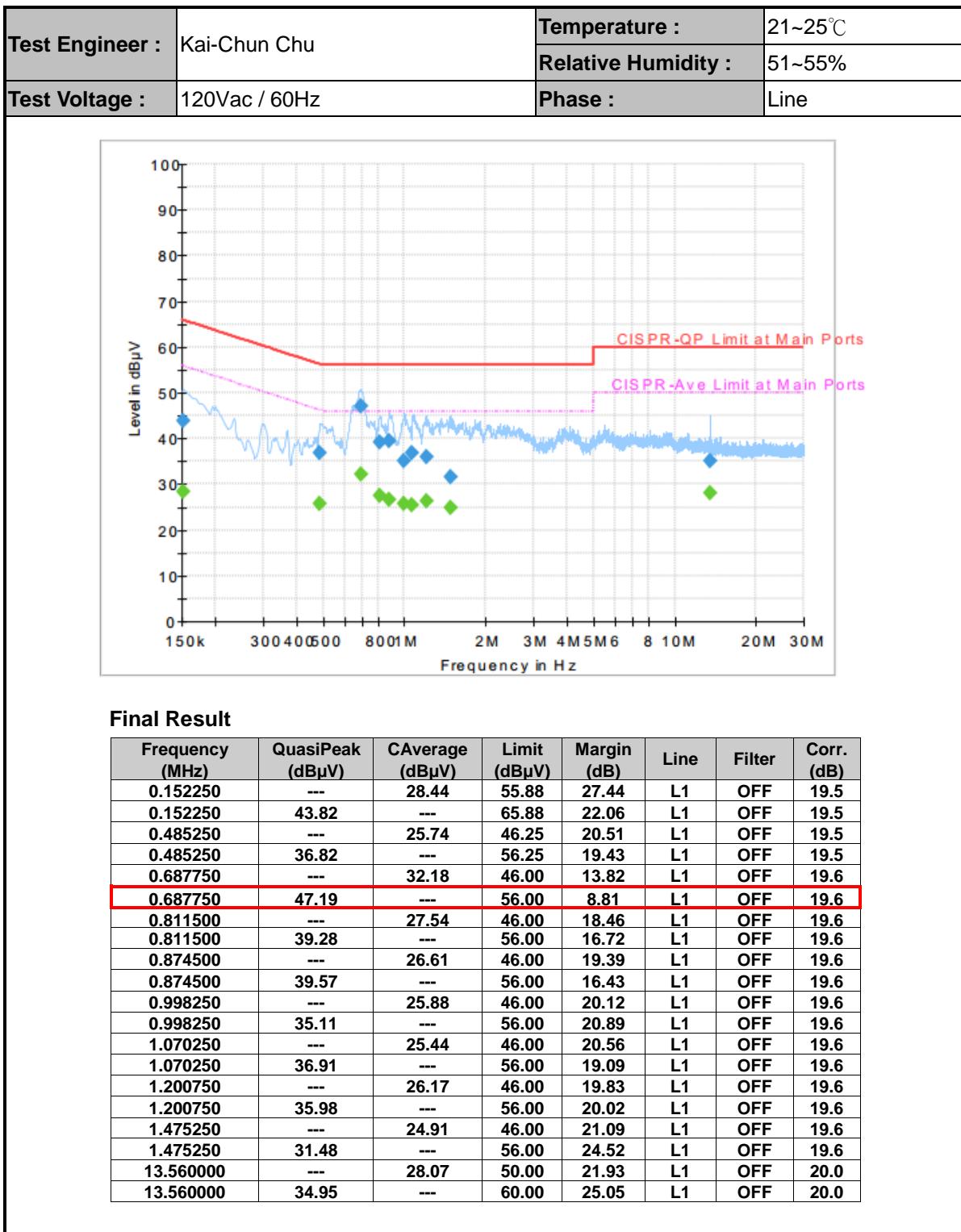
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	5.50
---	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_{c(y)}$)	5.20
---	------

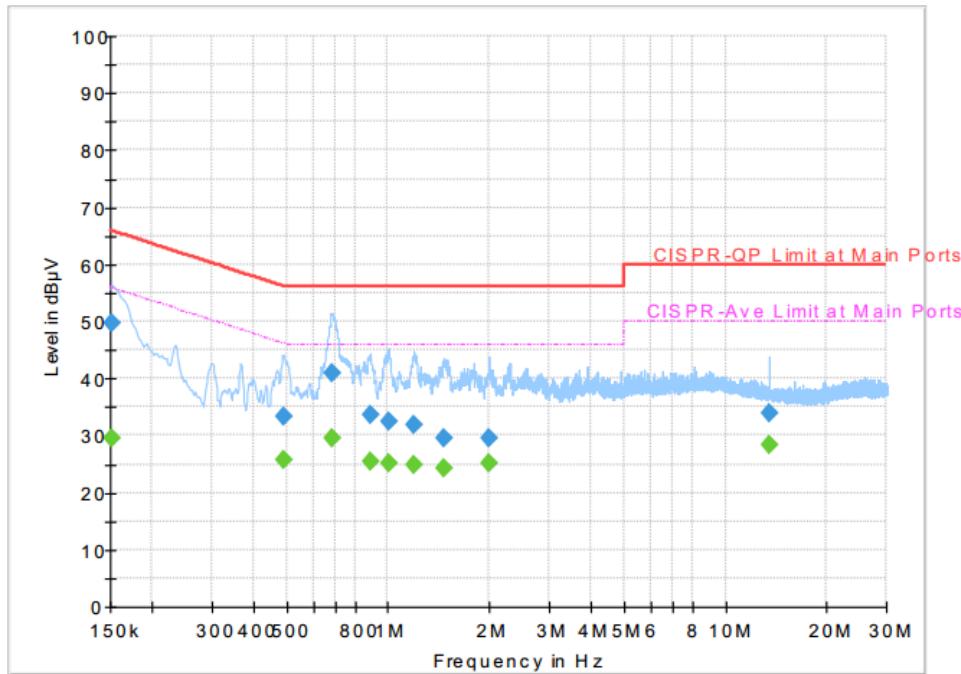


Appendix A. AC Conducted Emission Test Results





Test Engineer :	Kai-Chun Chu	Temperature :	21~25°C
Test Voltage :	120Vac / 60Hz	Relative Humidity :	51~55%
Phase :		Phase :	Neutral



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	29.61	55.88	26.27	N	OFF	19.5
0.152250	49.66	---	65.88	16.22	N	OFF	19.5
0.489750	---	25.60	46.17	20.57	N	OFF	19.5
0.489750	33.34	---	56.17	22.83	N	OFF	19.5
0.683250	---	29.54	46.00	16.46	N	OFF	19.6
0.683250	40.93	---	56.00	15.07	N	OFF	19.6
0.883500	---	25.55	46.00	20.45	N	OFF	19.6
0.883500	33.57	---	56.00	22.43	N	OFF	19.6
1.000500	---	25.03	46.00	20.97	N	OFF	19.6
1.000500	32.44	---	56.00	23.56	N	OFF	19.6
1.189500	---	24.76	46.00	21.24	N	OFF	19.6
1.189500	31.79	---	56.00	24.21	N	OFF	19.6
1.459500	---	24.16	46.00	21.84	N	OFF	19.6
1.459500	29.45	---	56.00	26.55	N	OFF	19.6
1.995000	---	25.20	46.00	20.80	N	OFF	19.6
1.995000	29.66	---	56.00	26.34	N	OFF	19.6
13.560000	---	28.30	50.00	21.70	N	OFF	20.1
13.560000	33.97	---	60.00	26.03	N	OFF	20.1



Appendix B. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :		24~26°C	
		Relative Humidity :		51~53%	

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.		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	Pos	Pos	Avg.
1		2388.855	55.28	-18.72	74	40.94	31.95	17.43	35.04	296	36	P	H
802.11b CH 01 2412MHz		2390	47.51	-6.49	54	33.18	31.95	17.43	35.05	296	36	A	H
	*	2412	106.06	-	-	91.69	31.99	17.43	35.05	296	36	P	H
	*	2412	102.64	-	-	88.27	31.99	17.43	35.05	296	36	A	H
													H
													H
		2386.44	56.75	-17.25	74	42.41	31.95	17.43	35.04	220	301	P	V
		2387.385	51.24	-2.76	54	36.9	31.95	17.43	35.04	220	301	P	V
	*	2412	110.28	-	-	95.91	31.99	17.43	35.05	220	301	P	V
	*	2412	106.89	-	-	92.52	31.99	17.43	35.05	220	301	A	V
													V
802.11b CH 06 2437MHz		2389.1	54.33	-19.67	74	39.99	31.95	17.43	35.04	361	23	P	H
		2388.4	44.65	-9.35	54	30.31	31.95	17.43	35.04	361	23	A	H
	*	2437	110.89	-	-	96.38	32.08	17.49	35.06	361	23	P	H
	*	2437	107.46	-	-	92.95	32.08	17.49	35.06	361	23	A	H
		2500	55.05	-18.95	74	40.38	32.2	17.55	35.08	361	23	P	H
		2485.44	45.05	-8.95	54	30.41	32.16	17.55	35.07	361	23	A	H
		2329.04	55.23	-18.77	74	41.15	31.79	17.31	35.02	328	268	P	V
		2388.68	44.46	-9.54	54	30.12	31.95	17.43	35.04	328	268	A	V
	*	2437	112.65	-	-	98.14	32.08	17.49	35.06	328	268	P	V
	*	2437	109.49	-	-	94.98	32.08	17.49	35.06	328	268	A	V
		2484.25	55.29	-18.71	74	40.65	32.16	17.55	35.07	328	268	P	V
		2483.62	45.83	-8.17	54	31.19	32.16	17.55	35.07	328	268	A	V



FCC RADIO TEST REPORT

Report No. : FR860615C

802.11b CH 11 2462MHz	*	2462	103.51	-	-	88.9	32.12	17.55	35.06	306	26	P	H
	*	2462	100.33	-	-	85.72	32.12	17.55	35.06	306	26	A	H
		2484.24	54.63	-19.37	74	39.99	32.16	17.55	35.07	306	26	P	H
		2484.56	44.46	-9.54	54	29.82	32.16	17.55	35.07	306	26	A	H
													H
													H
	*	2462	107	-	-	92.39	32.12	17.55	35.06	234	282	P	V
	*	2462	103.98	-	-	89.37	32.12	17.55	35.06	234	282	A	V
		2496.32	54.66	-19.34	74	39.99	32.2	17.55	35.08	234	282	P	V
		2484.44	46.34	-7.66	54	31.7	32.16	17.55	35.07	234	282	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	46.97	-27.03	74	60.96	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	53.09	-20.91	74	67.08	34.23	11.12	59.34	186	266	P	V
		4824	50.87	-3.13	54	64.86	34.23	11.12	59.34	186	266	A	V
													V
													V
802.11b CH 06 2437MHz		4874	43.68	-30.32	74	57.54	34.22	11.16	59.24	100	0	P	H
		7311	47.12	-26.88	74	55.93	35.71	13.61	58.13	100	0	P	H
													H
		4874	46.48	-27.52	74	60.34	34.22	11.16	59.24	100	0	P	V
		7311	47.84	-26.16	74	56.65	35.71	13.61	58.13	100	0	P	V
													V
													V
													V
802.11b CH 11 2462MHz		4924	45.87	-28.13	74	59.58	34.21	11.22	59.14	100	0	P	H
													H
													H
		4924	52.96	-21.04	74	66.67	34.21	11.22	59.14	267	176	P	V
		4924	50.83	-3.17	54	64.54	34.21	11.22	59.14	267	176	A	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.8	66.31	-7.69	74	51.98	31.95	17.43	35.05	295	24	P	H
		2390	51.2	-2.8	54	36.87	31.95	17.43	35.05	295	24	A	H
	*	2412	110.29	-	-	95.92	31.99	17.43	35.05	295	24	P	H
	*	2412	102.73	-	-	88.36	31.99	17.43	35.05	295	24	A	H
													H
													H
		2389.905	66.3	-7.7	74	51.97	31.95	17.43	35.05	219	296	P	V
		2390	50.55	-3.45	54	36.22	31.95	17.43	35.05	219	296	A	V
	*	2412	111.93	-	-	97.56	31.99	17.43	35.05	219	296	P	V
	*	2412	103.93	-	-	89.56	31.99	17.43	35.05	219	296	A	V
													V
													V
802.11g CH 06 2437MHz		2389.24	57.62	-16.38	74	43.28	31.95	17.43	35.04	363	23	P	H
		2389.94	48.55	-5.45	54	34.22	31.95	17.43	35.05	363	23	A	H
	*	2437	113.18	-	-	98.67	32.08	17.49	35.06	363	23	P	H
	*	2437	105.61	-	-	91.1	32.08	17.49	35.06	363	23	A	H
		2483.69	59.4	-14.6	74	44.76	32.16	17.55	35.07	363	23	P	H
		2483.5	47.56	-6.44	54	32.92	32.16	17.55	35.07	363	23	A	H
		2387	56.62	-17.38	74	42.28	31.95	17.43	35.04	327	268	P	V
		2387	46.88	-7.12	54	32.54	31.95	17.43	35.04	327	268	A	V
	*	2437	115.35	-	-	100.89	32.03	17.49	35.06	327	268	P	V
	*	2437	107.4	-	-	92.94	32.03	17.49	35.06	327	268	A	V
		2484.81	61.26	-12.74	74	46.62	32.16	17.55	35.07	327	268	P	V
		2483.62	49.68	-4.32	54	35.04	32.16	17.55	35.07	327	268	A	V



FCC RADIO TEST REPORT

Report No. : FR860615C

802.11g CH 11 2462MHz	*	2462	109.37	-	-	94.76	32.12	17.55	35.06	316	23	P	H
	*	2462	101.52	-	-	86.91	32.12	17.55	35.06	316	23	A	H
		2483.6	56.65	-17.35	74	42.01	32.16	17.55	35.07	316	23	P	H
		2483.68	47.6	-6.4	54	32.96	32.16	17.55	35.07	316	23	A	H
													H
													H
	*	2462	112.49	-	-	97.88	32.12	17.55	35.06	181	292	P	V
	*	2462	104.37	-	-	89.76	32.12	17.55	35.06	181	292	A	V
		2484.36	60.72	-13.28	74	46.08	32.16	17.55	35.07	181	292	P	V
		2483.52	51.12	-2.88	54	36.48	32.16	17.55	35.07	181	292	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	42.68	-31.32	74	56.67	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	45.67	-28.33	74	59.66	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	41.15	-32.85	74	55.01	34.22	11.16	59.24	100	0	P	H
		7311	45.5	-28.5	74	54.31	35.71	13.61	58.13	100	0	P	H
													H
		4874	42.31	-31.69	74	56.17	34.22	11.16	59.24	100	0	P	V
		7311	45.56	-28.44	74	54.37	35.71	13.61	58.13	100	0	P	V
													V
													V
													V
802.11g CH 11 2462MHz		4924	43.06	-30.94	74	56.77	34.21	11.22	59.14	100	0	P	H
		7386	42.95	-31.05	74	51.86	35.66	13.69	58.26	100	0	P	H
													H
		4924	48.27	-25.73	74	61.98	34.21	11.22	59.14	100	0	P	V
		7386	47.76	-26.24	74	56.67	35.66	13.69	58.26	100	0	P	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.8	61.9	-12.1	74	47.57	31.95	17.43	35.05	353	34	P	H
		2389.905	48.17	-5.83	54	33.84	31.95	17.43	35.05	353	34	A	H
	*	2412	108.1	-	-	93.73	31.99	17.43	35.05	353	34	P	H
	*	2412	100.35	-	-	85.98	31.99	17.43	35.05	353	34	A	H
													H
													H
		2389.905	66.95	-7.05	74	52.62	31.95	17.43	35.05	206	359	P	V
		2390	52.72	-1.28	54	38.39	31.95	17.43	35.05	206	359	P	V
	*	2412	110.05	-	-	95.68	31.99	17.43	35.05	206	359	P	V
	*	2412	102.6	-	-	88.23	31.99	17.43	35.05	206	359	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.8	55.95	-18.05	74	41.62	31.95	17.43	35.05	390	27	P	H
		2389.66	45.86	-8.14	54	31.52	31.95	17.43	35.04	390	27	A	H
	*	2437	111.05	-	-	96.54	32.08	17.49	35.06	390	27	P	H
	*	2437	103.65	-	-	89.14	32.08	17.49	35.06	390	27	A	H
		2485.37	56.72	-17.28	74	42.08	32.16	17.55	35.07	390	27	P	H
		2483.55	46.69	-7.31	54	32.05	32.16	17.55	35.07	390	27	A	H
		2389.94	57.64	-16.36	74	43.31	31.95	17.43	35.05	228	294	P	V
		2389.94	47.62	-6.38	54	33.29	31.95	17.43	35.05	228	294	A	V
	*	2437	114.3	-	-	99.79	32.08	17.49	35.06	228	294	P	V
	*	2437	106.73	-	-	92.22	32.08	17.49	35.06	228	294	A	V
		2483.52	63.57	-10.43	74	48.93	32.16	17.55	35.07	228	294	P	V
		2483.55	50.9	-3.1	54	36.26	32.16	17.55	35.07	228	294	A	V



802.11n HT20 CH 11 2462MHz	*	2462	108.78	-	-	94.17	32.12	17.55	35.06	352	32	P	H
	*	2462	101.25	-	-	86.64	32.12	17.55	35.06	352	32	A	H
		2483.72	62.55	-11.45	74	47.91	32.16	17.55	35.07	352	32	P	H
		2483.52	50.65	-3.35	54	36.01	32.16	17.55	35.07	352	32	A	H
													H
													H
	*	2462	110.1	-	-	95.49	32.12	17.55	35.06	197	353	P	V
	*	2462	102.34	-	-	87.73	32.12	17.55	35.06	197	353	A	V
		2483.52	63.88	-10.12	74	49.24	32.16	17.55	35.07	197	353	P	V
		2483.68	52.34	-1.66	54	37.7	32.16	17.55	35.07	197	353	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	43.96	-30.04	74	57.95	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	46.36	-27.64	74	60.35	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	42	-32	74	55.86	34.22	11.16	59.24	100	0	P	H
		7311	46.67	-27.33	74	55.48	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	45.34	-28.66	74	59.2	34.22	11.16	59.24	100	0	P	V
		7311	46.47	-27.53	74	55.28	35.71	13.61	58.13	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	44.22	-29.78	74	57.93	34.21	11.22	59.14	100	0	P	H
		7386	47.3	-26.7	74	56.21	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	49.11	-24.89	74	62.82	34.21	11.22	59.14	100	0	P	V
		7386	46.51	-27.49	74	55.42	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.52	56.42	-17.58	74	42.08	31.95	17.43	35.04	363	35	P	H
		2389.38	48.1	-5.9	54	33.76	31.95	17.43	35.04	363	35	A	H
	*	2422	104.29	-	-	89.83	32.03	17.49	35.06	363	35	P	H
	*	2422	96.17	-	-	81.71	32.03	17.49	35.06	363	35	A	H
		2492.79	54.86	-19.14	74	40.19	32.2	17.55	35.08	363	35	P	H
		2489.85	45.4	-8.6	54	30.72	32.2	17.55	35.07	363	35	A	H
		2389.94	59.49	-14.51	74	45.16	31.95	17.43	35.05	211	274	P	V
		2389.52	52.32	-1.68	54	37.98	31.95	17.43	35.04	211	274	A	V
	*	2422	106.45	-	-	91.99	32.03	17.49	35.06	211	274	P	V
	*	2422	99.03	-	-	84.57	32.03	17.49	35.06	211	274	A	V
802.11n HT40 CH 06 2437MHz		2484.74	54.29	-19.71	74	39.65	32.16	17.55	35.07	211	274	P	V
		2483.76	45.82	-8.18	54	31.18	32.16	17.55	35.07	211	274	A	V
		2389.66	55.5	-18.5	74	41.16	31.95	17.43	35.04	364	34	P	H
		2388.96	47.56	-6.44	54	33.22	31.95	17.43	35.04	364	34	A	H
	*	2437	107.07	-	-	92.56	32.08	17.49	35.06	364	34	P	H
	*	2437	99.76	-	-	85.25	32.08	17.49	35.06	364	34	A	H
		2483.97	56.11	-17.89	74	41.47	32.16	17.55	35.07	364	34	P	H
		2483.55	47.98	-6.02	54	33.34	32.16	17.55	35.07	364	34	A	H
		2389.52	57.98	-16.02	74	43.64	31.95	17.43	35.04	213	275	P	V
		2388.26	49.97	-4.03	54	35.63	31.95	17.43	35.04	213	275	A	V
2437MHz	*	2437	109.84	-	-	95.33	32.08	17.49	35.06	213	275	P	V
	*	2437	102.59	-	-	88.08	32.08	17.49	35.06	213	275	A	V
		2483.5	59.51	-14.49	74	44.87	32.16	17.55	35.07	213	275	P	V
		2483.5	52.78	-1.22	54	38.14	32.16	17.55	35.07	213	275	A	V



802.11n		2342.48	53.98	-20.02	74	39.81	31.83	17.37	35.03	358	33	P	H
		2349.9	45.17	-8.83	54	31	31.83	17.37	35.03	358	33	A	H
	*	2452	104.61	-	-	90.1	32.08	17.49	35.06	358	33	P	H
	*	2452	97.09	-	-	82.58	32.08	17.49	35.06	358	33	A	H
		2483.69	57.1	-16.9	74	42.46	32.16	17.55	35.07	358	33	P	H
	HT40	2483.5	48.63	-5.37	54	33.99	32.16	17.55	35.07	358	33	A	H
	CH 09	2389.1	54.76	-19.24	74	40.42	31.95	17.43	35.04	210	272	P	V
	2452MHz	2389.1	45.71	-8.29	54	31.37	31.95	17.43	35.04	210	272	A	V
	*	2452	108.36	-	-	93.85	32.08	17.49	35.06	210	272	P	V
	*	2452	100.79	-	-	86.28	32.08	17.49	35.06	210	272	A	V
		2484.46	60.51	-13.49	74	45.87	32.16	17.55	35.07	210	272	P	V
		2483.55	52.64	-1.36	54	38	32.16	17.55	35.07	210	272	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	41.21	-32.79	74	55.17	34.23	11.12	59.31	100	0	P	H
		7266	42.32	-31.68	74	51.1	35.73	13.58	58.09	100	0	P	H
													H
													H
		4844	41.75	-32.25	74	55.71	34.23	11.12	59.31	100	0	P	V
		7266	42.07	-31.93	74	50.85	35.73	13.58	58.09	100	0	P	V
													V
802.11n HT40 CH 06 2437MHz		4874	41.71	-32.29	74	55.57	34.22	11.16	59.24	100	0	P	H
		7311	41.81	-32.19	74	50.62	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	42.56	-31.44	74	56.42	34.22	11.16	59.24	100	0	P	V
		7311	41.92	-32.08	74	50.73	35.71	13.61	58.13	100	0	P	V
													V
802.11n HT40 CH 09 2452MHz		4904	41.55	-32.45	74	55.28	34.22	11.22	59.17	100	0	P	H
		7356	41.88	-32.12	74	50.76	35.68	13.65	58.21	100	0	P	H
													H
													H
		4904	43.61	-30.39	74	57.34	34.22	11.22	59.17	100	0	P	V
		7356	44.03	-29.97	74	52.91	35.68	13.65	58.21	100	0	P	V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30	27.8	-12.2	40	33.22	24.6	1.33	31.35	100	0	P	H
		175.53	24.57	-18.93	43.5	38.58	15.22	2.25	31.48	-	-	P	H
		279.75	21.38	-24.62	46	31.07	18.78	2.86	31.33	-	-	P	H
		559	25.56	-20.44	46	26.84	25.8	3.81	30.89	-	-	P	H
		734.7	28.62	-17.38	46	27.49	27.41	4.37	30.65	-	-	P	H
		962.9	31.8	-22.2	54	26.36	30.89	5.06	30.51	-	-	P	H
													H
													H
													H
													H
2.4GHz													H
802.11n													H
HT40		30	30.32	-9.68	40	35.74	24.6	1.33	31.35	100	0	P	V
LF		130.98	23.25	-20.25	43.5	35.35	17.42	2.01	31.53	-	-	P	V
		206.04	19.17	-24.33	43.5	33.2	15.03	2.38	31.44	-	-	P	V
		556.2	26.1	-19.9	46	27.68	25.51	3.81	30.9	-	-	P	V
		746.6	29.22	-16.78	46	27.67	27.73	4.46	30.64	-	-	P	V
		962.2	32.57	-21.43	54	27.13	30.89	5.06	30.51	-	-	P	V
													V
													V
													V
													V
													V
Remark		1. No other spurious found. 2. All results are PASS against limit line.											



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2387.91	58.98	-15.02	74	44.64	31.95	17.43	35.04	103	191	P	H
		2388.12	52.82	-1.18	54	38.48	31.95	17.43	35.04	103	191	A	H
	*	2412	110.08	-	-	95.71	31.99	17.43	35.05	103	191	P	H
	*	2412	106.99	-	-	92.62	31.99	17.43	35.05	103	191	A	H
													H
													H
		2388.225	57.24	-16.76	74	42.9	31.95	17.43	35.04	369	63	P	V
		2388.015	51.36	-2.64	54	37.02	31.95	17.43	35.04	369	63	A	V
	*	2412	108.1	-	-	93.73	31.99	17.43	35.05	369	63	P	V
	*	2412	104.96	-	-	90.59	31.99	17.43	35.05	369	63	A	V
802.11b CH 06 2437MHz		2388.82	56.46	-17.54	74	42.12	31.95	17.43	35.04	150	191	P	H
		2389.94	48.83	-5.17	54	34.5	31.95	17.43	35.05	150	191	A	H
	*	2437	111.27	-	-	96.76	32.08	17.49	35.06	150	191	P	H
	*	2437	108.17	-	-	93.66	32.08	17.49	35.06	150	191	A	H
		2483.69	55.58	-18.42	74	40.94	32.16	17.55	35.07	150	191	P	H
		2483.5	47.24	-6.76	54	32.6	32.16	17.55	35.07	150	191	A	H
		2388.82	56.46	-17.54	74	42.12	31.95	17.43	35.04	326	71	P	V
		2388.96	49.2	-4.8	54	34.86	31.95	17.43	35.04	326	71	A	V
	*	2437	109.86	-	-	95.35	32.08	17.49	35.06	326	71	P	V
	*	2437	106.67	-	-	92.16	32.08	17.49	35.06	326	71	A	V
		2484.95	55	-19	74	40.36	32.16	17.55	35.07	326	71	P	V
		2483.5	47.44	-6.56	54	32.8	32.16	17.55	35.07	326	71	A	V



802.11b CH 11 2462MHz	*	2462	108.91	-	-	94.3	32.12	17.55	35.06	142	278	P	H
	*	2462	105.79	-	-	91.18	32.12	17.55	35.06	142	278	A	H
		2484.56	57.28	-16.72	74	42.64	32.16	17.55	35.07	142	278	P	H
		2484.44	51.24	-2.76	54	36.6	32.16	17.55	35.07	142	278	A	H
													H
													H
	*	2462	110.37	-	-	95.76	32.12	17.55	35.06	361	77	P	V
	*	2462	105.97	-	-	91.36	32.12	17.55	35.06	361	77	A	V
		2484.48	55.98	-18.02	74	41.34	32.16	17.55	35.07	361	77	P	V
		2484.48	48.35	-5.65	54	33.71	32.16	17.55	35.07	361	77	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	52.19	-21.81	74	66.18	34.23	11.12	59.34	202	122	P	H
		4824	50.57	-3.43	54	64.56	34.23	11.12	59.34	202	122	A	H
													H
													H
		4824	47.8	-26.2	74	61.79	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	41.86	-32.14	74	55.72	34.22	11.16	59.24	100	0	P	H
		7311	43.57	-30.43	74	52.38	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	41.51	-32.49	74	55.37	34.22	11.16	59.24	100	0	P	V
		7311	43.2	-30.8	74	52.01	35.71	13.61	58.13	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	45.33	-28.67	74	59.04	34.21	11.22	59.14	100	0	P	H
		7386	44.28	-29.72	74	53.19	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	44.11	-29.89	74	57.82	34.21	11.22	59.14	100	0	P	V
		7386	44.22	-29.78	74	53.13	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2388.645	64.73	-9.27	74	50.39	31.95	17.43	35.04	126	245	P	H
		2390	51.56	-2.44	54	37.23	31.95	17.43	35.05	126	245	A	H
	*	2412	109.68	-	-	95.31	31.99	17.43	35.05	126	245	P	H
	*	2412	102.18	-	-	87.81	31.99	17.43	35.05	126	245	A	H
													H
													H
		2389.38	63.19	-10.81	74	48.85	31.95	17.43	35.04	362	144	P	V
		2390	52.97	-1.03	54	38.64	31.95	17.43	35.05	362	144	A	V
	*	2412	111.22	-	-	96.85	31.99	17.43	35.05	362	144	P	V
	*	2412	102.84	-	-	88.47	31.99	17.43	35.05	362	144	A	V
													V
													V
802.11g CH 06 2437MHz		2389.24	56.8	-17.2	74	42.46	31.95	17.43	35.04	119	241	P	H
		2389.66	47.66	-6.34	54	33.32	31.95	17.43	35.04	119	241	A	H
	*	2437	113.4	-	-	98.89	32.08	17.49	35.06	119	241	P	H
	*	2437	105.73	-	-	91.22	32.08	17.49	35.06	119	241	A	H
		2483.5	58.72	-15.28	74	44.08	32.16	17.55	35.07	119	241	P	H
		2483.62	48.38	-5.62	54	33.74	32.16	17.55	35.07	119	241	A	H
		2389.94	55.9	-18.1	74	41.57	31.95	17.43	35.05	317	142	P	V
		2389.94	47.17	-6.83	54	32.84	31.95	17.43	35.05	317	142	A	V
	*	2437	113.98	-	-	99.47	32.08	17.49	35.06	317	142	P	V
	*	2437	106.05	-	-	91.54	32.08	17.49	35.06	317	142	A	V
		2483.62	54.97	-19.03	74	40.33	32.16	17.55	35.07	317	142	P	V
		2483.83	46.46	-7.54	54	31.82	32.16	17.55	35.07	317	142	A	V



802.11g CH 11 2462MHz	*	2462	109.93	-	-	95.32	32.12	17.55	35.06	164	234	P	H
	*	2462	102.31	-	-	87.7	32.12	17.55	35.06	164	234	A	H
		2483.68	59.42	-14.58	74	44.78	32.16	17.55	35.07	164	234	P	H
		2483.56	49.91	-4.09	54	35.27	32.16	17.55	35.07	164	234	A	H
													H
													H
	*	2462	109.33	-	-	94.72	32.12	17.55	35.06	356	62	P	V
	*	2462	101.65	-	-	87.04	32.12	17.55	35.06	356	62	A	V
		2483.56	62.85	-11.15	74	48.21	32.16	17.55	35.07	356	62	P	V
		2483.56	51.43	-2.57	54	36.79	32.16	17.55	35.07	356	62	A	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	45.15	-28.85	74	59.14	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	43.65	-30.35	74	57.64	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	41.93	-32.07	74	55.79	34.22	11.16	59.24	100	0	P	H
		7311	43.22	-30.78	74	52.03	35.71	13.61	58.13	100	0	P	H
													H
		4874	41.6	-32.4	74	55.46	34.22	11.16	59.24	100	0	P	V
		7311	42.83	-31.17	74	51.64	35.71	13.61	58.13	100	0	P	V
													V
													V
													V
802.11g CH 11 2462MHz		4924	42.59	-31.41	74	56.3	34.21	11.22	59.14	100	0	P	H
		7386	43.36	-30.64	74	52.27	35.66	13.69	58.26	100	0	P	H
													H
		4924	42.59	-31.41	74	56.3	34.21	11.22	59.14	100	0	P	V
		7386	43.45	-30.55	74	52.36	35.66	13.69	58.26	100	0	P	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2390	64.17	-9.83	74	49.84	31.95	17.43	35.05	126	246	P	H
		2390	50.31	-3.69	54	35.98	31.95	17.43	35.05	126	246	A	H
	*	2412	108.01	-	-	93.64	31.99	17.43	35.05	126	246	P	H
	*	2412	100.07	-	-	85.7	31.99	17.43	35.05	126	246	A	H
													H
													H
		2389.695	67.21	-6.79	74	52.87	31.95	17.43	35.04	363	145	P	V
		2389.905	52.75	-1.25	54	38.42	31.95	17.43	35.05	363	145	A	V
	*	2412	109.68	-	-	95.31	31.99	17.43	35.05	363	145	P	V
	*	2412	101.97	-	-	87.6	31.99	17.43	35.05	363	145	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.8	55.05	-18.95	74	40.72	31.95	17.43	35.05	164	278	P	H
		2389.94	45.98	-8.02	54	31.65	31.95	17.43	35.05	164	278	A	H
	*	2437	110.74	-	-	96.23	32.08	17.49	35.06	164	278	P	H
	*	2437	103.6	-	-	89.09	32.08	17.49	35.06	164	278	A	H
		2484.32	59.5	-14.5	74	44.86	32.16	17.55	35.07	164	278	P	H
		2483.5	48.47	-5.53	54	33.83	32.16	17.55	35.07	164	278	A	H
		2389.24	56.35	-17.65	74	42.01	31.95	17.43	35.04	317	146	P	V
		2389.52	47.6	-6.4	54	33.26	31.95	17.43	35.04	317	146	A	V
	*	2437	112.24	-	-	97.73	32.08	17.49	35.06	317	146	P	V
	*	2437	104.86	-	-	90.35	32.08	17.49	35.06	317	146	A	V
		2483.5	56.12	-17.88	74	41.48	32.16	17.55	35.07	317	146	P	V
		2483.83	46.52	-7.48	54	31.88	32.16	17.55	35.07	317	146	A	V



802.11n HT20 CH 11 2462MHz	*	2462	110.54	-	-	95.93	32.12	17.55	35.06	143	280	P	H
	*	2462	102.84	-	-	88.23	32.12	17.55	35.06	143	280	A	H
		2484.52	63.75	-10.25	74	49.11	32.16	17.55	35.07	143	280	P	H
		2483.6	52.66	-1.34	54	38.02	32.16	17.55	35.07	143	280	A	H
													H
													H
	*	2462	109.97	-	-	95.36	32.12	17.55	35.06	362	77	P	V
	*	2462	102.32	-	-	87.71	32.12	17.55	35.06	362	77	A	V
		2483.6	62.58	-11.42	74	47.94	32.16	17.55	35.07	362	77	P	V
		2483.56	50.58	-3.42	54	35.94	32.16	17.55	35.07	362	77	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	44.73	-29.27	74	58.72	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	42.79	-31.21	74	56.78	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	43.05	-30.95	74	56.91	34.22	11.16	59.24	100	0	P	H
		7311	44.34	-29.66	74	53.15	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	41.37	-32.63	74	55.23	34.22	11.16	59.24	100	0	P	V
		7311	42.56	-31.44	74	51.37	35.71	13.61	58.13	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	42.13	-31.87	74	55.84	34.21	11.22	59.14	100	0	P	H
		7386	43.03	-30.97	74	51.94	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	42.44	-31.56	74	56.15	34.21	11.22	59.14	100	0	P	V
		7386	43.7	-30.3	74	52.61	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.94	61.08	-12.92	74	46.75	31.95	17.43	35.05	162	281	P	H
		2389.38	52.71	-1.29	54	38.37	31.95	17.43	35.04	162	281	A	H
	*	2422	108.12	-	-	93.66	32.03	17.49	35.06	162	281	P	H
	*	2422	100.87	-	-	86.41	32.03	17.49	35.06	162	281	A	H
		2483.83	55.62	-18.38	74	40.98	32.16	17.55	35.07	162	281	P	H
		2483.55	47.38	-6.62	54	32.74	32.16	17.55	35.07	162	281	A	H
		2387.28	54.47	-19.53	74	40.13	31.95	17.43	35.04	400	24	P	V
		2389.66	46.01	-7.99	54	31.67	31.95	17.43	35.04	400	24	A	V
	*	2422	106.49	-	-	92.03	32.03	17.49	35.06	400	24	P	V
	*	2422	98.64	-	-	84.18	32.03	17.49	35.06	400	24	A	V
802.11n HT40 CH 06 2437MHz		2493.84	54.36	-19.64	74	39.69	32.2	17.55	35.08	400	24	P	V
		2490.69	45.56	-8.44	54	30.88	32.2	17.55	35.07	400	24	A	V
		2388.26	56.48	-17.52	74	42.14	31.95	17.43	35.04	100	317	P	H
		2388.12	48.25	-5.75	54	33.91	31.95	17.43	35.04	100	317	A	H
	*	2437	108.2	-	-	93.69	32.08	17.49	35.06	100	317	P	H
	*	2437	100.84	-	-	86.33	32.08	17.49	35.06	100	317	A	H
		2483.97	61.2	-12.8	74	46.56	32.16	17.55	35.07	100	317	P	H
		2483.55	52.65	-1.35	54	38.01	32.16	17.55	35.07	100	317	A	H
		2377.34	54.43	-19.57	74	40.19	31.91	17.37	35.04	400	23	P	V
		2383.78	45.34	-8.66	54	31.04	31.91	17.43	35.04	400	23	A	V
	*	2437	106.8	-	-	92.29	32.08	17.49	35.06	400	23	P	V
	*	2437	99.04	-	-	84.53	32.08	17.49	35.06	400	23	A	V
		2484.53	54.58	-19.42	74	39.94	32.16	17.55	35.07	400	23	P	V
		2483.62	46.95	-7.05	54	32.31	32.16	17.55	35.07	400	23	A	V



FCC RADIO TEST REPORT

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		2333.24	55.25	-18.75	74	41.17	31.79	17.31	35.02	146	193	P	H
		2385.74	45.46	-8.54	54	31.12	31.95	17.43	35.04	146	193	A	H
	*	2452	106.64	-	-	92.13	32.08	17.49	35.06	146	193	P	H
	*	2452	98.89	-	-	84.38	32.08	17.49	35.06	146	193	A	H
802.11n		2485.37	61.89	-12.11	74	47.25	32.16	17.55	35.07	146	193	P	H
HT40		2483.55	52.96	-1.04	54	38.32	32.16	17.55	35.07	146	193	A	H
CH 09		2387.42	55.09	-18.91	74	40.75	31.95	17.43	35.04	362	75	P	V
2452MHz		2370.9	45.39	-8.61	54	31.15	31.91	17.37	35.04	362	75	A	V
	*	2452	105.96	-	-	91.45	32.08	17.49	35.06	362	75	P	V
	*	2452	97.71	-	-	83.2	32.08	17.49	35.06	362	75	A	V
		2483.69	59.83	-14.17	74	45.19	32.16	17.55	35.07	362	75	P	V
		2483.76	52.19	-1.81	54	37.55	32.16	17.55	35.07	362	75	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	41.77	-32.23	74	55.73	34.23	11.12	59.31	100	0	P	H
		7266	43.24	-30.76	74	52.02	35.73	13.58	58.09	100	0	P	H
													H
													H
		4844	41.94	-32.06	74	55.9	34.23	11.12	59.31	100	0	P	V
		7266	43.3	-30.7	74	52.08	35.73	13.58	58.09	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	42	-32	74	55.86	34.22	11.16	59.24	100	0	P	H
		7311	42.96	-31.04	74	51.77	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	41.13	-32.87	74	54.99	34.22	11.16	59.24	100	0	P	V
		7311	42.41	-31.59	74	51.22	35.71	13.61	58.13	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	41.12	-32.88	74	54.85	34.22	11.22	59.17	100	0	P	H
		7386	43.13	-30.87	74	52.04	35.66	13.69	58.26	100	0	P	H
													H
													H
		4904	41.32	-32.68	74	55.05	34.22	11.22	59.17	100	0	P	V
		7386	44.01	-29.99	74	52.92	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

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)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11g LF		30.27	27.81	-12.19	40	33.23	24.6	1.33	31.35	100	0	P	H
		174.45	24.61	-18.89	43.5	38.58	15.26	2.25	31.48	-	-	P	H
		292.98	22.76	-23.24	46	32.2	19.01	2.86	31.31	-	-	P	H
		649.3	26.59	-19.41	46	27.01	26.2	4.14	30.76	-	-	P	H
		709.5	27.16	-18.84	46	26.98	26.49	4.36	30.67	-	-	P	H
		962.9	33.38	-20.62	54	27.94	30.89	5.06	30.51	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
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.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2342.13	54.7	-19.3	74	40.53	31.83	17.37	35.03	334	76	P	H
		2390	45.75	-8.25	54	31.42	31.95	17.43	35.05	334	76	A	H
	*	2412	109.74	-	-	95.37	31.99	17.43	35.05	334	76	P	H
	*	2412	106.86	-	-	92.49	31.99	17.43	35.05	334	76	A	H
													H
													H
		2387.595	55.97	-18.03	74	41.63	31.95	17.43	35.04	338	88	P	V
		2387.595	46.96	-7.04	54	32.62	31.95	17.43	35.04	338	88	A	V
	*	2412	109.51	-	-	95.14	31.99	17.43	35.05	338	88	P	V
	*	2412	106.38	-	-	92.01	31.99	17.43	35.05	338	88	A	V
802.11b CH 06 2437MHz													V
		2388.4	55.74	-18.26	74	41.4	31.95	17.43	35.04	289	83	P	H
		2388.82	48.61	-5.39	54	34.27	31.95	17.43	35.04	289	83	A	H
	*	2437	115.62	-	-	101.11	32.08	17.49	35.06	289	83	P	H
	*	2437	112.38	-	-	97.87	32.08	17.49	35.06	289	83	A	H
		2485.37	56.43	-17.57	74	41.79	32.16	17.55	35.07	289	83	P	H
		2485.72	46.1	-7.9	54	31.46	32.16	17.55	35.07	289	83	A	H
		2388.54	55.37	-18.63	74	41.03	31.95	17.43	35.04	366	77	P	V
		2389.94	47.49	-6.51	54	33.16	31.95	17.43	35.05	366	77	A	V
	*	2437	112.46	-	-	97.95	32.08	17.49	35.06	366	77	P	V
	*	2437	109.39	-	-	94.88	32.08	17.49	35.06	366	77	A	V
		2486.07	55.1	-18.9	74	40.46	32.16	17.55	35.07	366	77	P	V
		2485.79	46.13	-7.87	54	31.49	32.16	17.55	35.07	366	77	A	V



FCC RADIO TEST REPORT

Report No. : FR860615C

802.11b CH 11 2462MHz	*	2462	110.91	-	-	96.3	32.12	17.55	35.06	318	92	P	H
	*	2462	107.9	-	-	93.29	32.12	17.55	35.06	318	92	A	H
		2484.56	55.25	-18.75	74	40.61	32.16	17.55	35.07	318	92	P	H
		2483.52	46.54	-7.46	54	31.9	32.16	17.55	35.07	318	92	A	H
													H
													H
	*	2462	108.79	-	-	94.18	32.12	17.55	35.06	363	80	P	V
	*	2462	105.81	-	-	91.2	32.12	17.55	35.06	363	80	A	V
		2494.56	54.89	-19.11	74	40.22	32.2	17.55	35.08	363	80	P	V
		2483.52	44.58	-9.42	54	29.94	32.16	17.55	35.07	363	80	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	52.86	-21.14	74	66.85	34.23	11.12	59.34	109	262	P	H
		4824	50.87	-3.13	54	64.86	34.23	11.12	59.34	109	262	A	H
													H
													H
		4824	47.88	-26.12	74	61.87	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	42.4	-31.6	74	56.26	34.22	11.16	59.24	100	0	P	H
		7311	48.38	-25.62	74	57.19	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	42.45	-31.55	74	56.31	34.22	11.16	59.24	100	0	P	V
		7311	50.06	-23.94	74	58.87	35.71	13.61	58.13	353	319	P	V
		7311	44.7	-9.3	54	53.51	35.71	13.61	58.13	353	319	A	V
													V
802.11b CH 11 2462MHz		4924	52.49	-21.51	74	66.2	34.21	11.22	59.14	108	270	P	H
		4924	50.88	-3.12	54	64.59	34.21	11.22	59.14	108	270	A	H
		7386	45.11	-28.89	74	54.02	35.66	13.69	58.26	100	0	P	H
													H
		4924	48.44	-25.56	74	62.15	34.21	11.22	59.14	100	0	P	V
		7386	43.74	-30.26	74	52.65	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2390	64.8	-9.2	74	50.47	31.95	17.43	35.05	100	271	P	H
		2390	51.61	-2.39	54	37.28	31.95	17.43	35.05	100	271	A	H
	*	2412	114.41	-	-	100.04	31.99	17.43	35.05	100	271	P	H
	*	2412	106.81	-	-	92.44	31.99	17.43	35.05	100	271	A	H
													H
													H
		2389.8	62.16	-11.84	74	47.83	31.95	17.43	35.05	363	156	P	V
		2389.38	48.59	-5.41	54	34.25	31.95	17.43	35.04	363	156	A	V
	*	2412	112.26	-	-	97.89	31.99	17.43	35.05	363	156	P	V
	*	2412	104.79	-	-	90.42	31.99	17.43	35.05	363	156	A	V
													V
													V
802.11g CH 06 2437MHz		2387.14	56.25	-17.75	74	41.91	31.95	17.43	35.04	100	76	P	H
		2389.94	46.58	-7.42	54	32.25	31.95	17.43	35.05	100	76	A	H
	*	2437	116.26	-	-	101.75	32.08	17.49	35.06	100	76	P	H
	*	2437	109.02	-	-	94.51	32.08	17.49	35.06	100	76	A	H
		2484.04	57.77	-16.23	74	43.13	32.16	17.55	35.07	100	76	P	H
		2483.52	47.26	-6.74	54	32.62	32.16	17.55	35.07	100	76	A	H
		2368.24	53.96	-20.04	74	39.76	31.87	17.37	35.04	395	177	P	V
		2385.46	44.37	-9.63	54	30.07	31.91	17.43	35.04	395	177	A	V
	*	2437	115.78	-	-	101.27	32.08	17.49	35.06	395	177	P	V
	*	2437	107.76	-	-	93.25	32.08	17.49	35.06	395	177	A	V
		2486.77	54.95	-19.05	74	40.31	32.16	17.55	35.07	395	177	P	V
		2484.53	45.14	-8.86	54	30.5	32.16	17.55	35.07	395	177	A	V



802.11g CH 11 2462MHz	*	2462	114.44	-	-	99.83	32.12	17.55	35.06	100	280	P	H
	*	2462	107.02	-	-	92.41	32.12	17.55	35.06	100	280	A	H
		2483.72	63.01	-10.99	74	48.37	32.16	17.55	35.07	100	280	P	H
		2483.8	51.77	-2.23	54	37.13	32.16	17.55	35.07	100	280	A	H
													H
													H
	*	2462	113.9	-	-	99.29	32.12	17.55	35.06	390	167	P	V
	*	2462	106.05	-	-	91.44	32.12	17.55	35.06	390	167	A	V
		2483.76	56.35	-17.65	74	41.71	32.16	17.55	35.07	390	167	P	V
		2483.52	47.01	-6.99	54	32.37	32.16	17.55	35.07	390	167	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	47.34	-26.66	74	61.33	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	45.76	-28.24	74	59.75	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	43.34	-30.66	74	57.2	34.22	11.16	59.24	100	0	P	H
		7311	46.09	-27.91	74	54.9	35.71	13.61	58.13	100	0	P	H
													H
		4874	42.46	-31.54	74	56.32	34.22	11.16	59.24	100	0	P	V
		7311	46.03	-27.97	74	54.84	35.71	13.61	58.13	100	0	P	V
													V
													V
													V
802.11g CH 11 2462MHz		4924	48.03	-25.97	74	61.74	34.21	11.22	59.14	100	0	P	H
		7386	43.68	-30.32	74	52.59	35.66	13.69	58.26	100	0	P	H
													H
		4920	46.4	-27.6	74	60.11	34.21	11.22	59.14	100	0	P	V
		7380	44.42	-29.58	74	53.34	35.67	13.64	58.23	100	0	P	V
													V
													V
	Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.											



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.695	65.97	-8.03	74	51.63	31.95	17.43	35.04	100	112	P	H
		2390	52.65	-1.35	54	38.32	31.95	17.43	35.05	100	112	A	H
	*	2412	111.41	-	-	97.04	31.99	17.43	35.05	100	112	P	H
	*	2412	103.73	-	-	89.36	31.99	17.43	35.05	100	112	A	H
													H
													H
		2390	65.01	-8.99	74	50.68	31.95	17.43	35.05	338	87	P	V
		2390	51.92	-2.08	54	37.59	31.95	17.43	35.05	338	87	A	V
	*	2412	109.54	-	-	95.17	31.99	17.43	35.05	338	87	P	V
	*	2412	101.75	-	-	87.38	31.99	17.43	35.05	338	87	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2388.26	56.65	-17.35	74	42.31	31.95	17.43	35.04	107	259	P	H
		2389.66	47.82	-6.18	54	33.48	31.95	17.43	35.04	107	259	A	H
	*	2437	115.71	-	-	101.2	32.08	17.49	35.06	107	259	P	H
	*	2437	108.47	-	-	93.96	32.08	17.49	35.06	107	259	A	H
		2483.69	59.99	-14.01	74	45.35	32.16	17.55	35.07	107	259	P	H
		2483.52	48.86	-5.14	54	34.22	32.16	17.55	35.07	107	259	A	H
		2389.1	55.83	-18.17	74	41.49	31.95	17.43	35.04	327	66	P	V
		2389.38	46.87	-7.13	54	32.53	31.95	17.43	35.04	327	66	A	V
	*	2437	114.46	-	-	99.95	32.08	17.49	35.06	327	66	P	V
	*	2437	106.95	-	-	92.44	32.08	17.49	35.06	327	66	A	V
		2486.77	55.05	-18.95	74	40.41	32.16	17.55	35.07	327	66	P	V
		2483.83	46.99	-7.01	54	32.35	32.16	17.55	35.07	327	66	A	V



802.11n HT20 CH 11 2462MHz	*	2462	114.52	-	-	99.91	32.12	17.55	35.06	106	259	P	H
	*	2462	106.61	-	-	92	32.12	17.55	35.06	106	259	A	H
		2483.6	66.83	-7.17	74	52.19	32.16	17.55	35.07	106	259	P	H
		2483.52	52.84	-1.16	54	38.2	32.16	17.55	35.07	106	259	A	H
													H
													H
	*	2462	112.06	-	-	97.45	32.12	17.55	35.06	354	69	P	V
	*	2462	104.1	-	-	89.49	32.12	17.55	35.06	354	69	A	V
		2484.28	63.96	-10.04	74	49.32	32.16	17.55	35.07	354	69	P	V
		2483.68	51.74	-2.26	54	37.1	32.16	17.55	35.07	354	69	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	46.27	-27.73	74	60.26	34.23	11.12	59.34	100	0	P	H
													H
													H
													H
		4824	43.38	-30.62	74	57.37	34.23	11.12	59.34	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	43.76	-30.24	74	57.62	34.22	11.16	59.24	100	0	P	H
		7311	45.26	-28.74	74	54.07	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	41.78	-32.22	74	55.64	34.22	11.16	59.24	100	0	P	V
		7311	47.3	-26.7	74	56.11	35.71	13.61	58.13	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	46.49	-27.51	74	60.2	34.21	11.22	59.14	100	0	P	H
		7386	44.32	-29.68	74	53.23	35.66	13.69	58.26	100	0	P	H
													H
													H
		4924	45.21	-28.79	74	58.92	34.21	11.22	59.14	100	0	P	V
		7386	45.43	-28.57	74	54.34	35.66	13.69	58.26	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.1	59	-15	74	44.66	31.95	17.43	35.04	100	223	P	H
		2389.52	51.32	-2.68	54	36.98	31.95	17.43	35.04	100	223	A	H
	*	2422	107.1	-	-	92.64	32.03	17.49	35.06	100	223	P	H
	*	2422	99.98	-	-	85.52	32.03	17.49	35.06	100	223	A	H
		2496.08	54.37	-19.63	74	39.7	32.2	17.55	35.08	100	223	P	H
		2485.86	45.68	-8.32	54	31.04	32.16	17.55	35.07	100	223	A	H
		2389.94	59.14	-14.86	74	44.81	31.95	17.43	35.05	297	88	P	V
		2389.52	52.83	-1.17	54	38.49	31.95	17.43	35.04	297	88	A	V
	*	2422	106.43	-	-	91.97	32.03	17.49	35.06	297	88	P	V
	*	2422	99.16	-	-	84.7	32.03	17.49	35.06	297	88	A	V
802.11n HT40 CH 06 2437MHz		2486.49	54.6	-19.4	74	39.96	32.16	17.55	35.07	297	88	P	V
		2483.9	45.76	-8.24	54	31.12	32.16	17.55	35.07	297	88	A	V
		2387.98	58.87	-15.13	74	44.53	31.95	17.43	35.04	300	272	P	H
		2388.4	51.53	-2.47	54	37.19	31.95	17.43	35.04	300	272	A	H
	*	2437	112.19	-	-	97.68	32.08	17.49	35.06	300	272	P	H
	*	2437	104.53	-	-	90.02	32.08	17.49	35.06	300	272	A	H
		2483.5	60.07	-13.93	74	45.43	32.16	17.55	35.07	300	272	P	H
		2483.5	51.89	-2.11	54	37.25	32.16	17.55	35.07	300	272	A	H
		2386.44	57.25	-16.75	74	42.91	31.95	17.43	35.04	330	67	P	V
		2389.24	49.59	-4.41	54	35.25	31.95	17.43	35.04	330	67	A	V
2437MHz	*	2437	111.48	-	-	96.97	32.08	17.49	35.06	330	67	P	V
	*	2437	103.24	-	-	88.73	32.08	17.49	35.06	330	67	A	V
		2483.62	57.37	-16.63	74	42.73	32.16	17.55	35.07	330	67	P	V
		2483.55	48.64	-5.36	54	34	32.16	17.55	35.07	330	67	A	V



802.11n HT40 CH 09 2452MHz		2336.32	55.94	-18.06	74	41.82	31.83	17.31	35.02	103	290	P	H
		2389.52	46.14	-7.86	54	31.8	31.95	17.43	35.04	103	290	A	H
	*	2452	110.18	-	-	95.67	32.08	17.49	35.06	103	290	P	H
	*	2452	102.27	-	-	87.76	32.08	17.49	35.06	103	290	A	H
		2484.04	60.01	-13.99	74	45.37	32.16	17.55	35.07	103	290	P	H
		2483.55	51.8	-2.2	54	37.16	32.16	17.55	35.07	103	290	A	H
		2331.14	54.93	-19.07	74	40.85	31.79	17.31	35.02	331	89	P	V
		2386.72	45.84	-8.16	54	31.5	31.95	17.43	35.04	331	89	A	V
	*	2452	108.98	-	-	94.47	32.08	17.49	35.06	331	89	P	V
	*	2452	100.19	-	-	85.68	32.08	17.49	35.06	331	89	A	V
		2484.67	58.58	-15.42	74	43.94	32.16	17.55	35.07	331	89	P	V
		2483.5	50.59	-3.41	54	35.95	32.16	17.55	35.07	331	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 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dB μ V/m)	Over Limit (dB)	Limit Line (dB μ V/m)	Read Level (dB μ V)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4844	41.67	-32.33	74	55.63	34.23	11.12	59.31	100	0	P	H
		7266	43.41	-30.59	74	52.19	35.73	13.58	58.09	100	0	P	H
													H
													H
		4844	41.75	-32.25	74	55.71	34.23	11.12	59.31	100	0	P	V
		7266	43.24	-30.76	74	52.02	35.73	13.58	58.09	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4874	42.87	-31.13	74	56.73	34.22	11.16	59.24	100	0	P	H
		7311	42.41	-31.59	74	51.22	35.71	13.61	58.13	100	0	P	H
													H
													H
		4874	42.03	-31.97	74	55.89	34.22	11.16	59.24	100	0	P	V
		7311	42.62	-31.38	74	51.43	35.71	13.61	58.13	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4904	45.16	-28.84	74	58.89	34.22	11.22	59.17	100	0	P	H
		7356	43.68	-30.32	74	52.56	35.68	13.65	58.21	100	0	P	H
													H
													H
		4904	42.73	-31.27	74	56.46	34.22	11.22	59.17	100	0	P	V
		7356	43.07	-30.93	74	51.95	35.68	13.65	58.21	100	0	P	V
													V
													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.	
1+2		(MHz)	(dB μ V/m)	(dB)	(dB μ V/m)	(dB μ V)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		30	29.46	-10.54	40	34.88	24.6	1.33	31.35	100	0	P	H
		140.7	25.42	-18.08	43.5	37.3	17.4	2.24	31.52	-	-	P	H
		181.74	23.87	-19.63	43.5	38.01	14.96	2.37	31.47	-	-	P	H
		523.3	24.77	-21.23	46	28.05	23.95	3.72	30.95	-	-	P	H
		848.1	30.63	-15.37	46	27.74	28.71	4.74	30.56	-	-	P	H
		960.1	32.63	-21.37	54	27.19	30.9	5.05	30.51	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

**Note symbol**

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



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

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

$$1. \text{ Path Loss(dB)} = \text{Cable loss(dB)} + \text{Filter loss(dB)} + \text{Attenuator loss(dB)}$$

$$2. \text{ Level(dB μ V/m)} =$$

$$\text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$3. \text{ Over Limit(dB)} = \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

For Peak Limit @ 2390MHz:

$$1. \text{ Level(dB μ V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 54.51(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 55.45 (\text{dB μ V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 55.45(\text{dB μ V/m}) - 74(\text{dB μ V/m})$$

$$= -18.55(\text{dB})$$

For Average Limit @ 2390MHz:

$$1. \text{ Level(dB μ V/m)}$$

$$= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB μ V)} - \text{Preamp Factor(dB)}$$

$$= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB μ V}) - 35.86 (\text{dB})$$

$$= 43.54 (\text{dB μ V/m})$$

$$2. \text{ Over Limit(dB)}$$

$$= \text{Level(dB μ V/m)} - \text{Limit Line(dB μ V/m)}$$

$$= 43.54(\text{dB μ V/m}) - 54(\text{dB μ V/m})$$

$$= -10.46(\text{dB})$$

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



Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh, and Nick Yu	Temperature :	24~26°C
		Relative Humidity :	51~53%

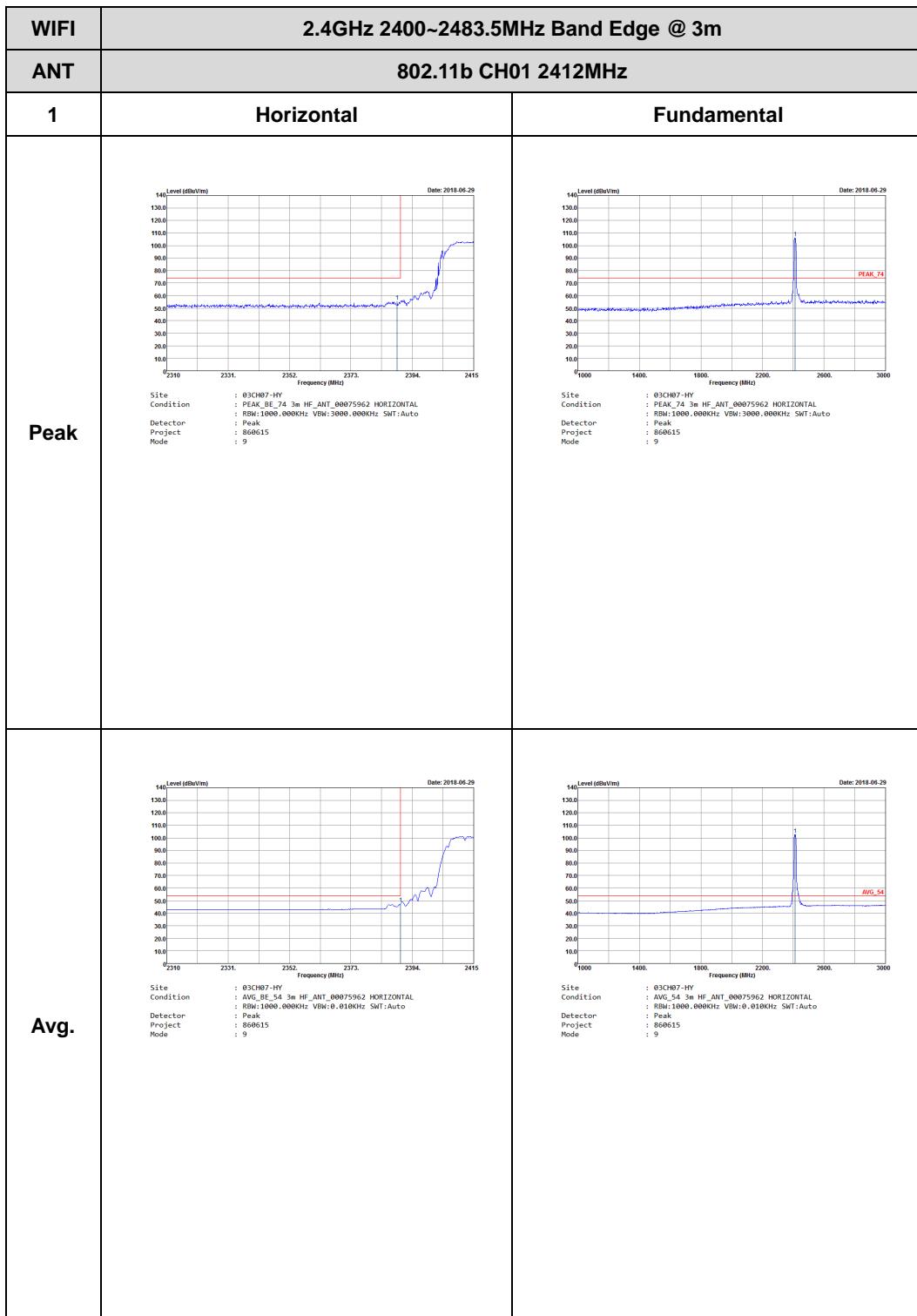
Note symbol

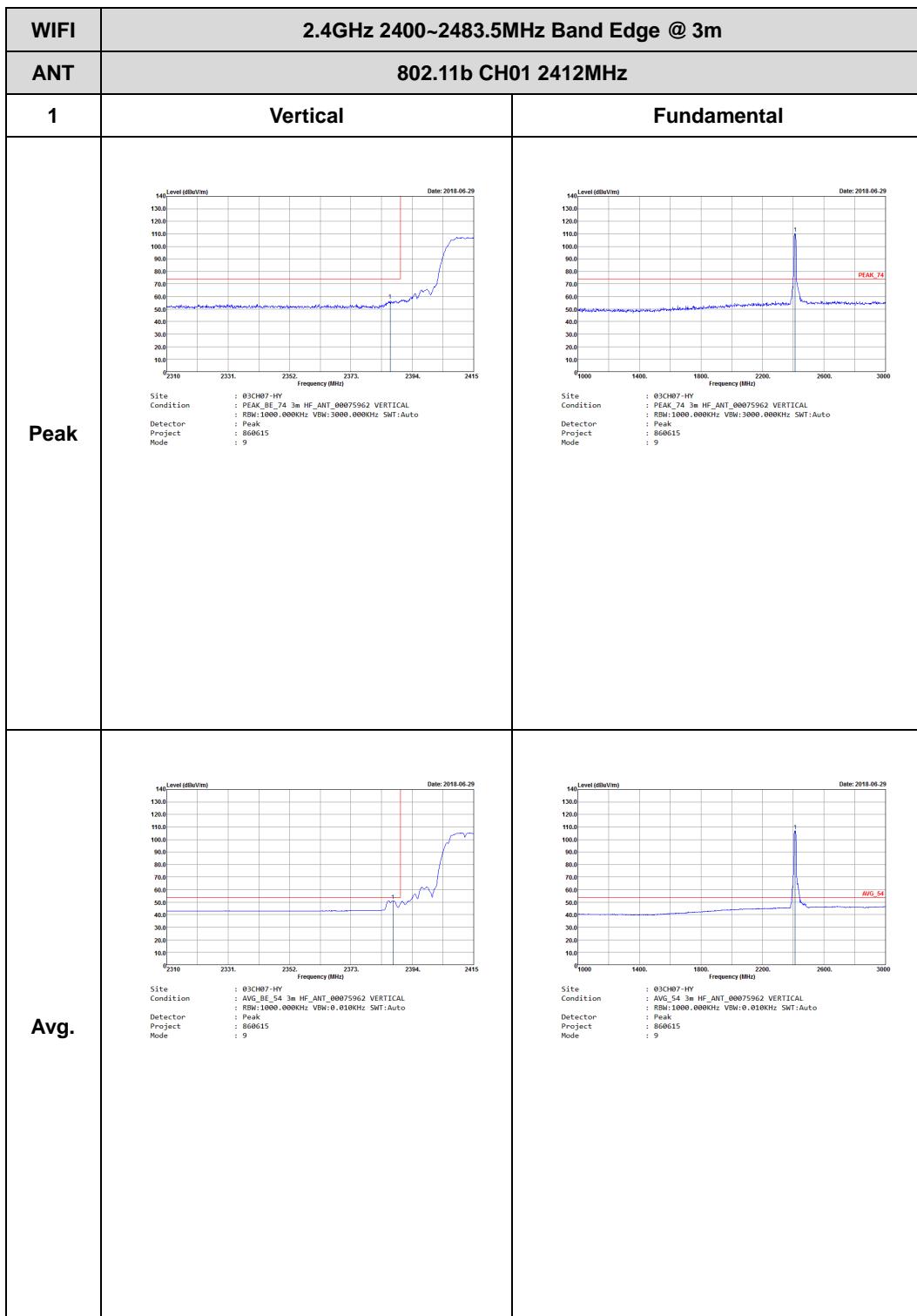
-L	Low channel location
-R	High channel location

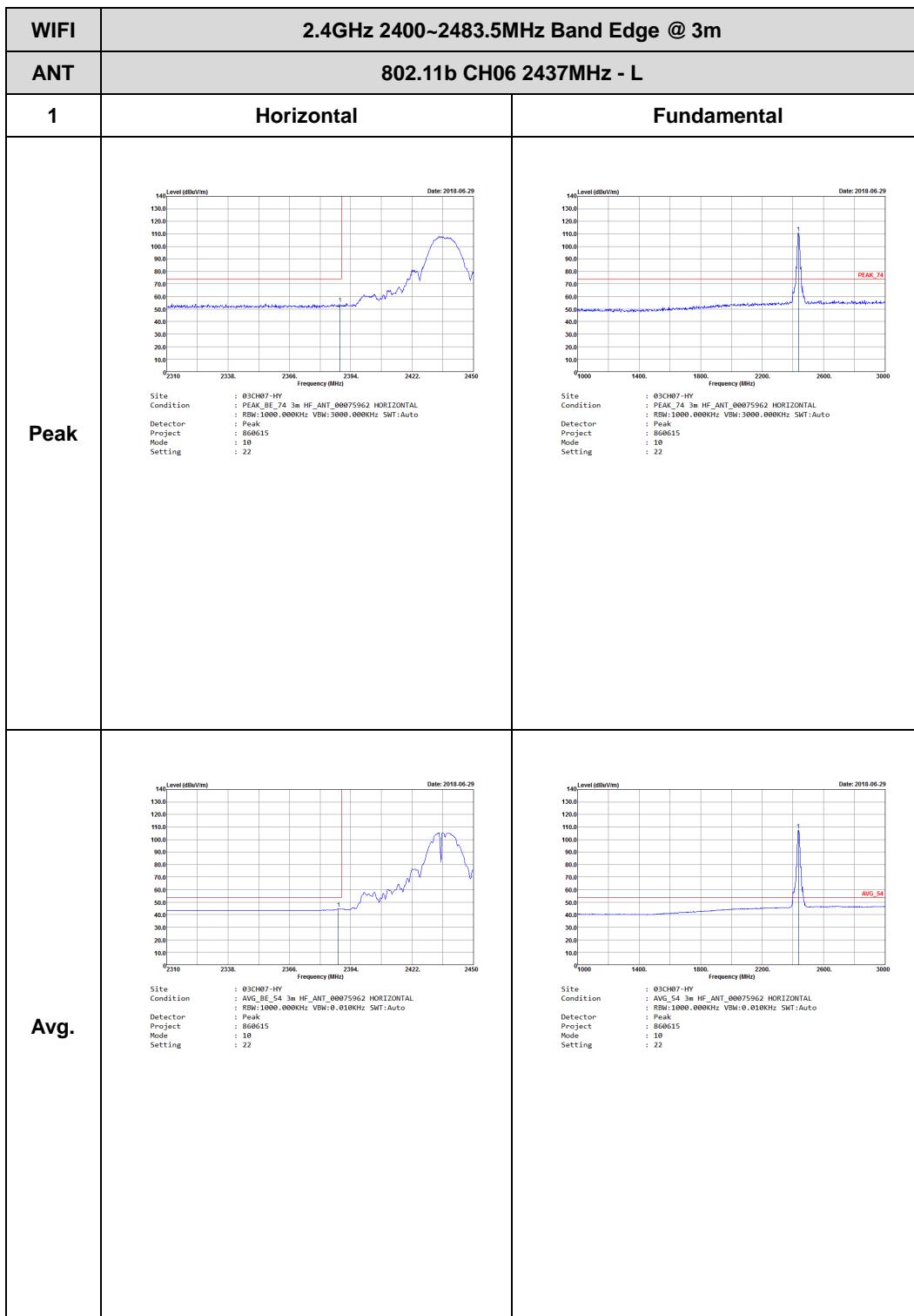


2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

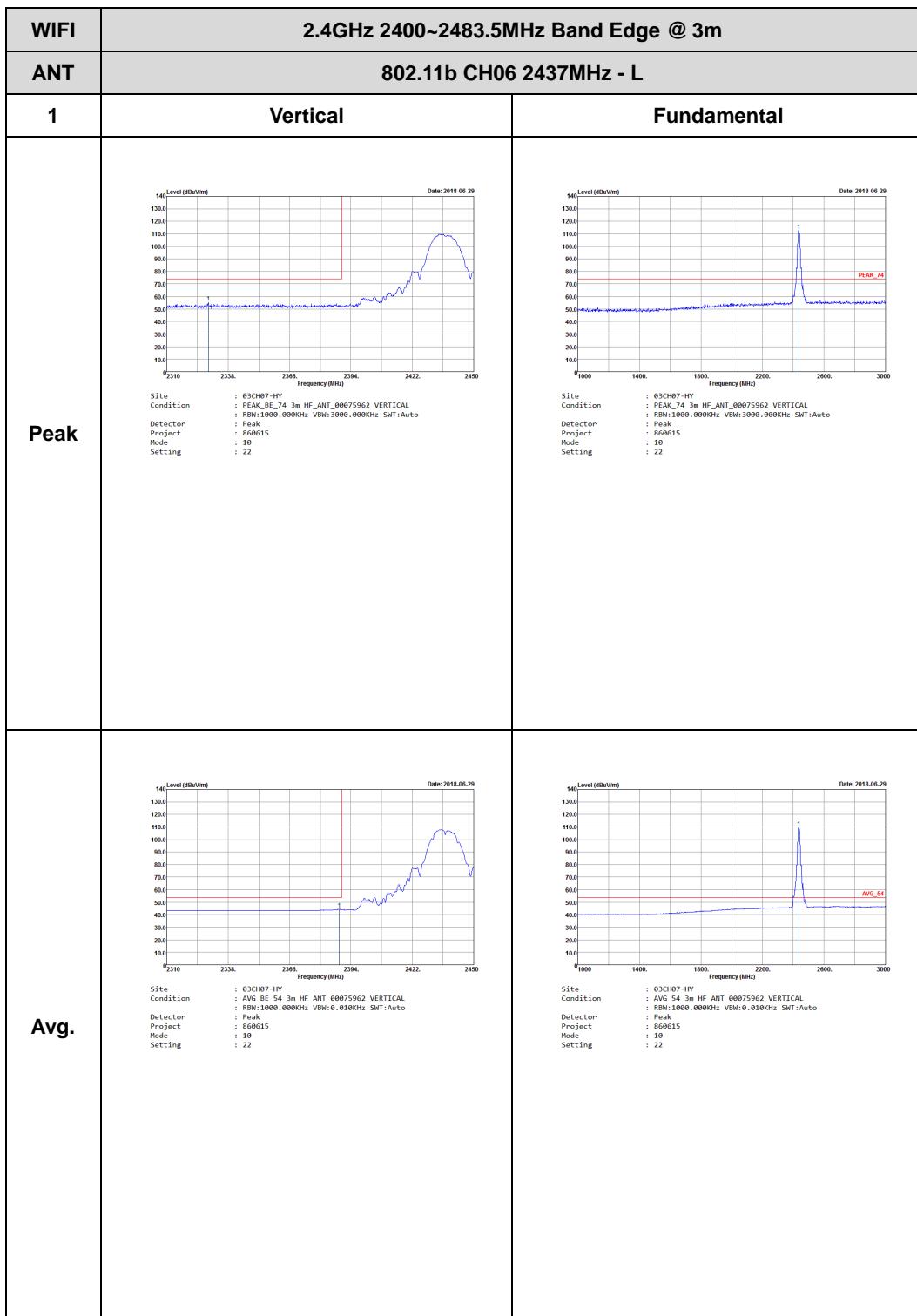








WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH07_HY Condition : PEAK_BE_74 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SMT:Auto Detector : Peak Project : 860615 Mode : 10 Setting : 22</p>	Left blank
Avg.	<p>Site : 03CH07_HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SMT:Auto Detector : Peak Project : 860615 Mode : 10 Setting : 22</p>	Left blank





WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH07_HY Condition : PEAK_BE_74 3m HF_ANT_00075962 VERTICAL Freq : 1000.000KHz RBW:3000.000KHz SMT:Auto Detector : Peak Project : 860615 Mode : 10 Setting : 22</p>	Left blank
Avg.	<p>Site : 03CH07_HY Condition : AVG_BE_S4 3m HF_ANT_00075962 VERTICAL Freq : 1000.000KHz RBW:0.010KHz SMT:Auto Detector : Peak Project : 860615 Mode : 10 Setting : 22</p>	Left blank

