

<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	50050527 009	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	164067041	Seite 1 von 181 <i>Page 1 of 181</i>	
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	23.06.2016		
<b>Auftraggeber:</b> <i>Client:</i>	GIEC TECHNOLOGY (HONG KONG) CO., LTD. Unit 7, 22/F., Billion Trade Centre, 31 Hung To Road, Kwun Tong, Hongkong				
<b>Prüfgegenstand:</b> <i>Test item:</i>	11.6" windows tablet				
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	NS-P11W7100, NS-P11W7100-C, NS-P11xxxxxxxx (x=0-9, A-Z, a-z, -or blank, for market purpose only)				
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	FCC/IC Certification				
<b>Prüfgrundlage:</b> <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 5.247 CFR47 FCC Part 15: Subpart C Section 5.207 CFR47 FCC Part 15: Subpart C Section 5.209 RSS-247 Issue 2 RSS-Gen Issue 4 November 2014				
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	29.06.2016				
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	A000381248-005, A000381248-006, A000381248-007, A000381248-008, A000381248-009				
<b>Prüfzeitraum:</b> <i>Testing period:</i>	30.06.2016 - 08.07.2016				
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Audix Technology (Shenzhen) Co., Ltd.				
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.				
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass				
<b>geprüft von / tested by:</b>  26-06-2017 Andy Yan/Project Manager	<b>kontrolliert von / reviewed by:</b>  26-06-2017 Owen Tian/Technical Certifier				
<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>	<b>Datum</b> <i>Date</i>	<b>Name / Stellung</b> <i>Name / Position</i>	<b>Unterschrift</b> <i>Signature</i>
<b>Sonstiges / Other:</b> FCC ID: 2A1B2-P11W7100W IC: 21456-P11W7100W					
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>			Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
<p>* Legende: 1 = sehr gut    2 = gut    3 = befriedigend    4 = ausreichend    5 = mangelhaft  P(ass) = entspricht o.g. Prüfgrundlage(n)    F(all) = entspricht nicht o.g. Prüfgrundlage(n)    N/A = nicht anwendbar    N/T = nicht getestet</p> <p>Legend: 1 = very good    2 = good    3 = satisfactory    4 = sufficient    5 = poor  P(ass) = passed a.m. test specification(s)    F(all) = failed a.m. test specification(s)    N/A = not applicable    N/T = not tested</p>					
<p><b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b></p> <p><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i></p>					

## TEST SUMMARY

**5.1.1 ANTENNA REQUIREMENT**

*RESULT:* Pass

**5.1.2 PEAK OUTPUT POWER**

*RESULT:* Pass

**5.1.3 6dB BANDWIDTH AND 99% BANDWIDTH**

*RESULT:* Pass

**5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100KHz BANDWIDTH**

*RESULT:* Pass

**5.1.5 POWER SPECTRAL DENSITY**

*RESULT:* Pass

**5.1.6 SPURIOUS EMISSION**

*RESULT:* Pass

**5.1.7 CONDUCTED EMISSIONS**

*RESULT:* Pass

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## 1. General Remarks

### 1.1 Complementary Materials

None.

## 2. Test Sites

### 2.1 Test Facilities

Audix Technology (Shenzhen) Co., Ltd.

**FCC Registration No.: R-3552)**  
**(Test site Industry Canada No.: 5183A-1)**

No.6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park,  
Nanshan, Shenzhen, Guangdong, China (518057)

The tests at the test site have been conducted under the supervision of a TÜV engineer.

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## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
<b>Transmitter spurious emissions (below 1GHz)</b>				
3#Chamber	AUDIX	N/A	N/A	Mar. 28, 17
EMI Spectrum	Agilent	E4407B	MY41440292	Apr. 24, 17
Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Apr. 24, 17
Amplifier	HP	8447D	2648A04738	Apr. 24, 17
Bi-log Antenna	TESEQ	CBL6111C	2598	Jun. 03, 17
RF Cable	MIYAZAKI	CFD400-NW(3.5M)	No.3	Apr. 24, 17
RF Cable	MIYAZAKI	CFD400-LW(22M)	No.7	Apr. 24, 17
Coaxial Switch	Anritsu	MP59B	6201397222	Apr. 23, 17
Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A
<b>Transmitter spurious emissions (above 1GHz)</b>				
3#Chamber	AUDIX	N/A	N/A	Mar. 28, 17
Spectrum Analyzer	Agilent	E4446A	US44300459	Apr. 24, 17
Horn Antenna	ETS	3115	9510-4877	Oct. 15, 16
Amplifier	Agilent	8449B	3008A02495	Apr. 24, 17
RF Cable	Hubersuhner	SUCOFLEX104	274094/4	Apr. 24, 17
Horn Antenna	ETS	3116	00060089	Oct. 15, 16
Test Software	AUDIX	e3	6.2009-5-21a(n)	N/A
<b>Conducted spurious emissions, 6dB &amp; 99% Bandwidth, Power spectral density</b>				
Spectrum	Agilent	N9030A	MY51380221	Oct. 17, 16
Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 23, 17
RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct. 17, 16
<b>Maximum peak output power</b>				
Spectrum	Agilent	E4446A	US44300459	Apr. 24, 17
Spectrum	Agilent	N9030A	MY51380221	Oct. 18, 16
Power meter	Anritsu	ML2487A	6K00002472	Aug. 21, 16
Power sensor	Anritsu	MA2491A	0033005	Aug. 21, 16
Attenuator (20dB)	Agilent	8491B	MY39262165	Apr. 23, 17
RF Cable	Marvelous Microwave Inc	SFL402105FLEX	NO.1	Oct. 17, 16
<b>Band edge</b>				
Spectrum	Agilent	E4446A	US44300459	Apr. 24, 17
Amp	HP	8449B	3008A02495	Apr. 24, 17
Horn Antenna	ETS	3115	9510-4877	Oct. 15, 16
HF Cable	Hubersuhner	Sucoflex104	274094/4	Apr. 24, 17
<b>Conducted Emission</b>				
1# Shielding Room	AUDIX	N/A	N/A	Apr. 17, 17
Test Receiver	Rohde & Schwarz	ESCI	100842	Apr. 24, 17
L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	100429	Oct. 18, 16

## Produkte

Products

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Kind of Equipment	Manufacturer	Type	S/N	Calibrated until
L.I.S.N.#2	Kyoritsu	K NW-403D	8-1750-2	Apr. 24, 17
Terminator	Hubersuhner	50Ω	No.1	May. 05, 17
Terminator	Hubersuhner	50Ω	No.2	May. 05, 17
RF Cable	MIYAZAKI	3D-2W	No.1	Apr. 24, 17
Coaxial Switch	Anritsu	MP59B	6200766906	Apr. 23, 17
Test Software	AUDIX	e3	6.100913a	N/A

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

**Table 2: Measurement Uncertainty**

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-5}$
Maximum Peak Output Power Test	$\pm 1.0\text{dB}$
Conducted Emissions Test	$\pm 2.0\text{dB}$
Radiated Emission Test	$\pm 2.0\text{dB}$
Power Density	$\pm 2.0\text{dB}$
Occupied Bandwidth Test	$\pm 1.0\text{dB}$
Band Edge Test	$\pm 3\text{dB}$
All emission, radiated	$\pm 3\text{dB}$
Antenna Port Emission	$\pm 3\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 3\%$

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

Audix Technology (Shenzhen) Co., Ltd. test facility located at No.6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park, Nanshan, Shenzhen, Guangdong, China (518057) is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUTs are 11.6" windows tablet with Wi-Fi, Bluetooth function.

These models are identical except the model name.

The EUTs have two antennas, two antennas cannot transmitter simultaneously.

For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

Technical Specification	Value
Kind of Equipment	11.6" windows tablet
Type Designation	NS-P11W7100, NS-P11W7100-C, NS-P11xxxxxxxx (x=0-9, A-Z, a-z, -or blank, for market purpose only)
FCC ID	2AIB2-P11W7100W
IC	21456-P11W7100W
Operating Frequency band	2412 – 2462MHz
Extreme Temperature Range	0~+40°C
Operation Voltage	DC 3.7V (via built in battery) DC 5V (via AC/DC adapter)
Antenna Gain	1.6dBi

**Table 4: Technical Specification of Wi-Fi**

Item	Description			
	IEEE 802.11b	IEEE 802.11g	IEEE 802.11n (HT20)	IEEE 802.11n (HT40)
Operating Frequency band (MHz)	2412 ~ 2472	2412 ~ 2472	2412 ~ 2472	2422 ~ 2452
Channel Number	13	13	13	9
Modulation	DSSS (DBPSK, DQPSK), CCK	OFDM (DBPSK, DQPSK)	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
Data Rate (Mbps)	1, 2, 5, 11	6, 9, 12, 18, 24, 36, 48, 54	MCS0 ~ MCS7	MCS0 ~ MCS7
Transmitter Output Power (Typical) (dBm)	16	15.5	15.5	15
Media Access Protocol	CSMA/CA with ACK	CSMA/CA with ACK	CSMA/CA with ACK	CSMA/CA with ACK

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**Table 5: Carrier Frequency**

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
2400 – 2483.5 MHz	1	2412 MHz	8	2447 MHz
	2	2417 MHz	9	2452 MHz
	3	2422 MHz	10	2457 MHz
	4	2427 MHz	11	2462 MHz
	5	2432 MHz		
	6	2437 MHz		
	7	2442 MHz		

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Wi-Fi mode (2.4GHz)
  - 1. Transmitting
    - a. Low Channel
    - b. Middle Channel
    - c. High Channel
  - 2. Receiving
- B. Standby
- C. Off

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

### 3.5 Submitted Documents

- Bill of Material
- Constructional Drawing
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.  
According to clause 3.1, all tests were applied on model NS-P11W7100 only.

### 4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Description	Manufacturer	Part No.	Rating
AC/DC Adapter	Shenzhen Sunun Power Technology CO., LTD	SA49-050300U	Input: AC 100-240V, 50/60Hz, 0.4A Output: DC 5V, 3A

The EUT was tested with following cables:

Interface(s)/Port(s):	Max. cable length, shielding	Cable classification
AC Mains of adapter	2 cores, non-shielded port, 3m	AC Power Input
Micro USB port	4 cores, non-shielded port, 3m	DC Power Input

### 4.4 Countermeasures to Achieve ERM Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF). No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test of below 1GHz

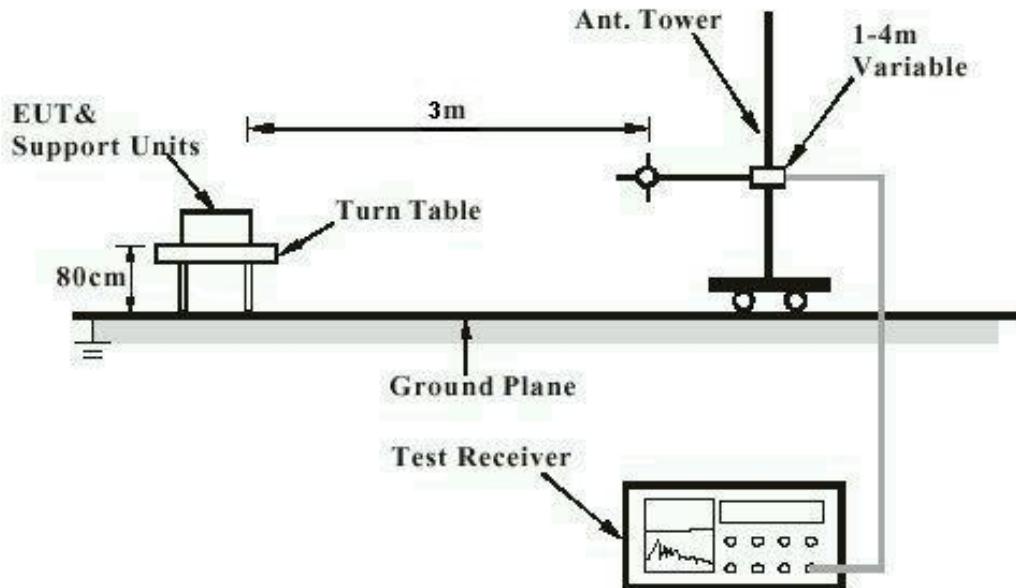
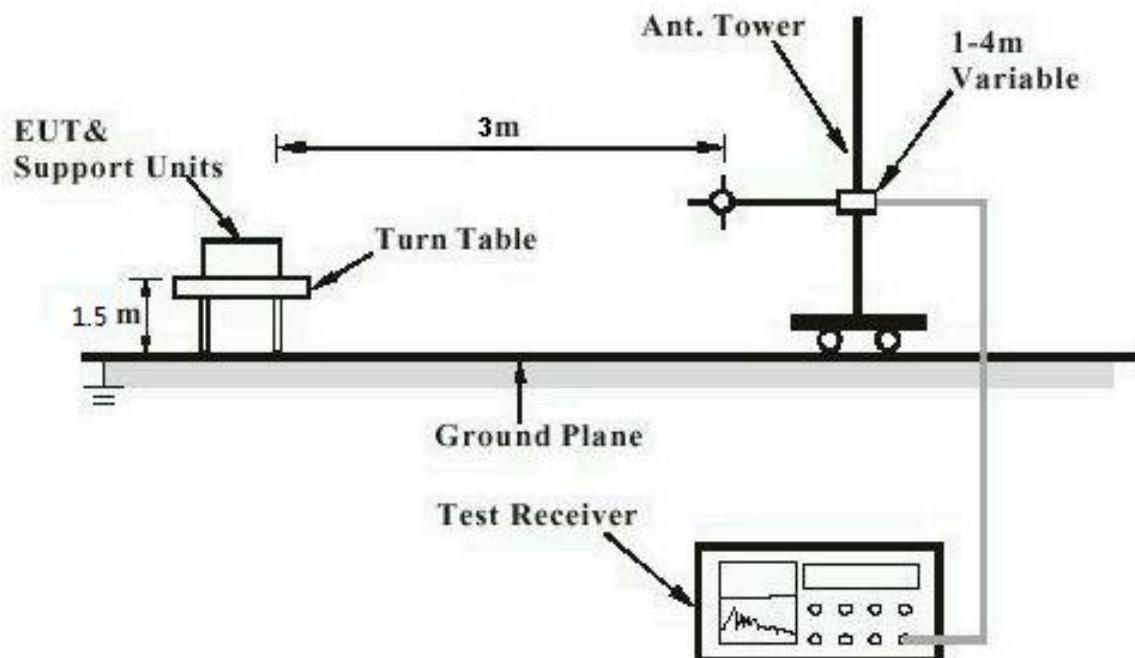
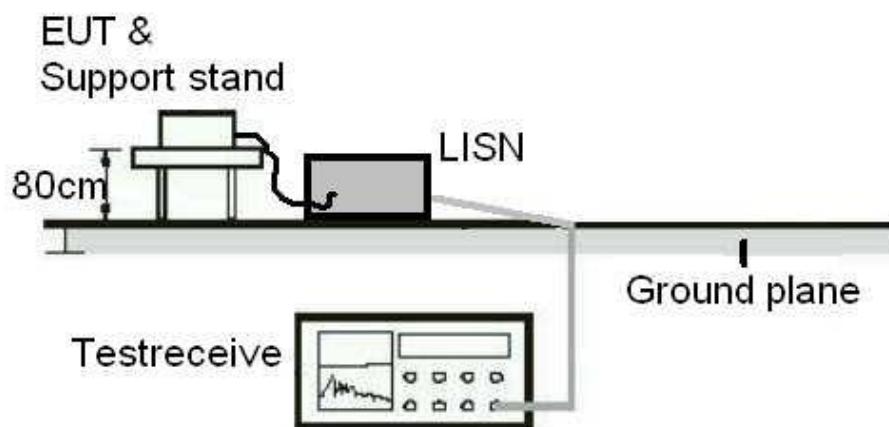


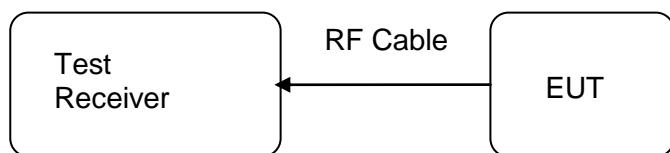
Diagram of Measurement Configuration for Radiation Test of above 1GHz



**Diagram of Measurement Equipment Configuration for Conduction Measurement**



**Diagram of Measurement Equipment Configuration for Transmitter Measurement**



## 5. Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

RESULT:	Pass
Test standard	: Part 15.203
Limit	RSS-Gen Clause 8.3 The use of antennas with directional gains that do not exceed 6dBi

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 1.6dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

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### 5.1.2 Peak Output Power

#### RESULT:

Pass

Test date	:	2016-07-01
Test standard	:	FCC Part 15.247(b)(3) RSS-247 clause 5.4(4)
Basic standard	:	ANSI C63.10: 2013 Clause 9.1 of KDB 558074 v03r03
Limit	:	1W
Kind of test site	:	Shielded room

#### Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1
Ambient temperature	:	20.4°C
Relative humidity	:	50.3%
Atmospheric pressure	:	101.3kPa

**Table 6: Test result of Peak Output Power of 802.11b**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)	
		(dBm)			
		ANT 1	ANT 2		
Low Channel	2412	14.71	14.75	30	
Middle Channel	2437	15.43	14.74	30	
High Channel	2462	15.61	15.11	30	

**Table 7: Test result of Peak Output Power of 802.11g**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)	
		(dBm)			
		ANT 1	ANT 2		
Low Channel	2412	12.76	13.07	30	
Middle Channel	2437	15.18	14.92	30	
High Channel	2462	11.60	11.70	30	

**Table 8: Test result of Peak Output Power of 802.11n (HT20)**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)	
		(dBm)			
		ANT 1	ANT 2		
Low Channel	2412	12.47	12.81	30	
Middle Channel	2437	15.40	14.17	30	
High Channel	2462	11.96	10.99	30	

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Page 16 of 181**Table 9: Test result of Peak Output Power of 802.11n (HT40)**

Channel	Channel Frequency (MHz)	Peak Output Power		Limit (dBm)	
		(dBm)			
		ANT 1	ANT 2		
Low Channel	2422	12.07	12.06	30	
Middle Channel	2437	14.92	14.66	30	
High Channel	2452	11.31	10.20	30	

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### 5.1.3 6dB Bandwidth and 99% Bandwidth

#### RESULT:

**Pass**

Date of testing	:	2016-07-01
Test standard	:	FCC Part 15.247(a)(2) RSS-247 clause 5.2(1) RSS-Gen clause 6.6
Basic standard	:	ANSI C63.10: 2013 Clause 8 of KDB 558074 v03r03
Kind of test site	:	Shielded room

#### Test setup

Test Channel	:	Low/ Middle/ High
Operation Mode	:	A.1
Ambient temperature	:	20.4°C
Relative humidity	:	50.3%
Atmospheric pressure	:	101.3kPa

**Table 10: Test result of 6dB Bandwidth & 99% Bandwidth of 802.11b**

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	99% Bandwidth (MHz)	
		ANT 1	ANT 2		ANT 1	ANT 2
Low Channel	2412	10.08	10.08	≥0.5	12.680	12.621
Mid Channel	2437	10.09	10.09	≥0.5	12.633	12.669
High Channel	2462	10.08	10.05	≥0.5	12.681	12.630

**Table 11: Test result of 6dB Bandwidth & 99% Bandwidth of 802.11g**

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	99% Bandwidth (MHz)	
		ANT 1	ANT 2		ANT 1	ANT 2
Low Channel	2412	15.16	15.15	≥0.5	16.460	16.408
Mid Channel	2437	15.16	15.15	≥0.5	16.396	16.407
High Channel	2462	15.15	15.15	≥0.5	16.431	16.397

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**Table 12: Test result of 6dB Bandwidth & 99% Bandwidth of 802.11n (HT20)**

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	99% Bandwidth (MHz)	
		ANT 1	ANT 2		ANT 1	ANT 2
Low Channel	2412	15.15	15.34	≥0.5	17.601	17.610
Mid Channel	2437	15.16	15.15	≥0.5	17.591	17.594
High Channel	2462	15.15	15.15	≥0.5	17.601	17.590

**Table 13: Test result of 6dB Bandwidth & 99% Bandwidth of 802.11n (HT40)**

Channel	Channel Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	99% Bandwidth (MHz)	
		ANT 1	ANT 2		ANT 1	ANT 2
Low Channel	2422	35.17	35.17	≥0.5	35.927	35.902
Mid Channel	2437	35.17	35.17	≥0.5	35.936	35.910
High Channel	2452	35.17	35.17	≥0.5	35.933	35.905

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### 5.1.4 Conducted Spurious Emissions measured in 100kHz Bandwidth

#### RESULT:

Pass

Date of testing	:	2016-06-30
Test standard	:	FCC part 15.247(d) RSS-247 clause 5.5
Basic standard	:	ANSI C63.10: 2013
Limit	:	20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power)
Kind of test site	:	Shield room

#### Test setup

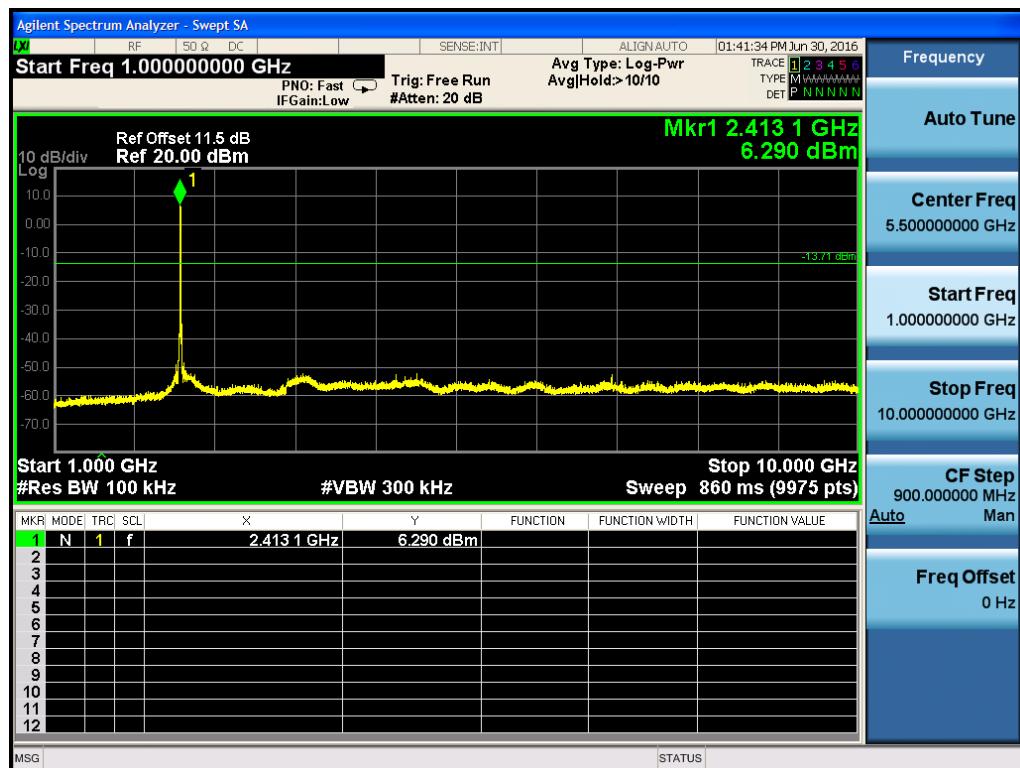
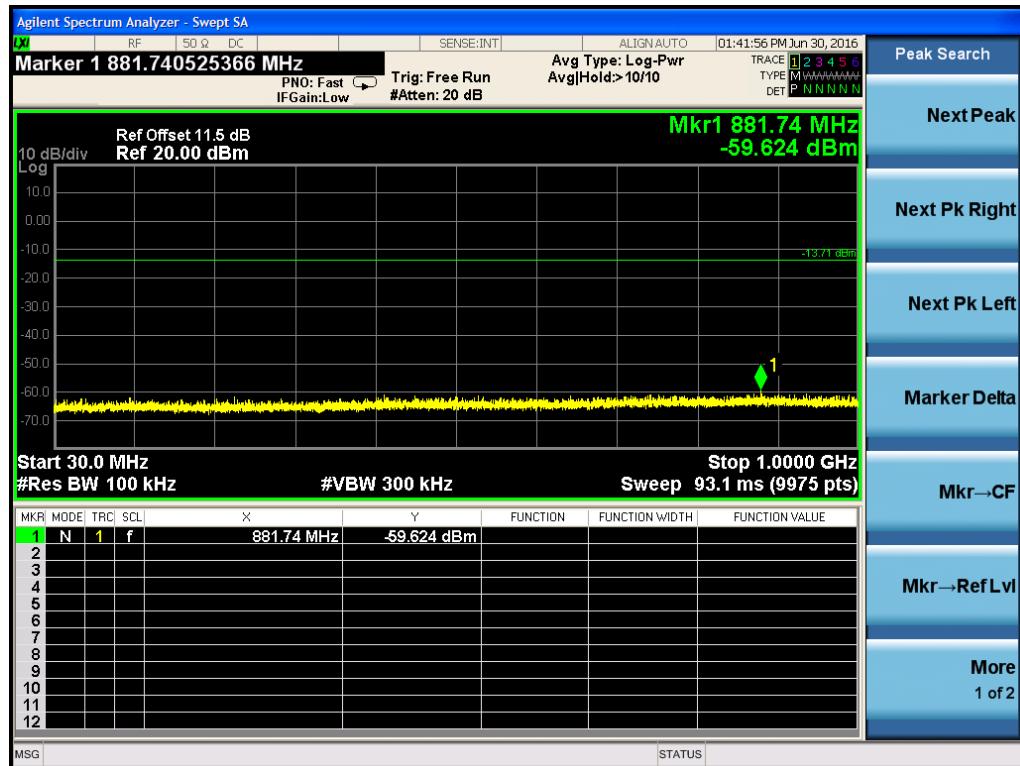
Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	20.4°C
Relative humidity	:	50.3%
Atmospheric pressure	:	101.3kPa

For details refer to following test plot.

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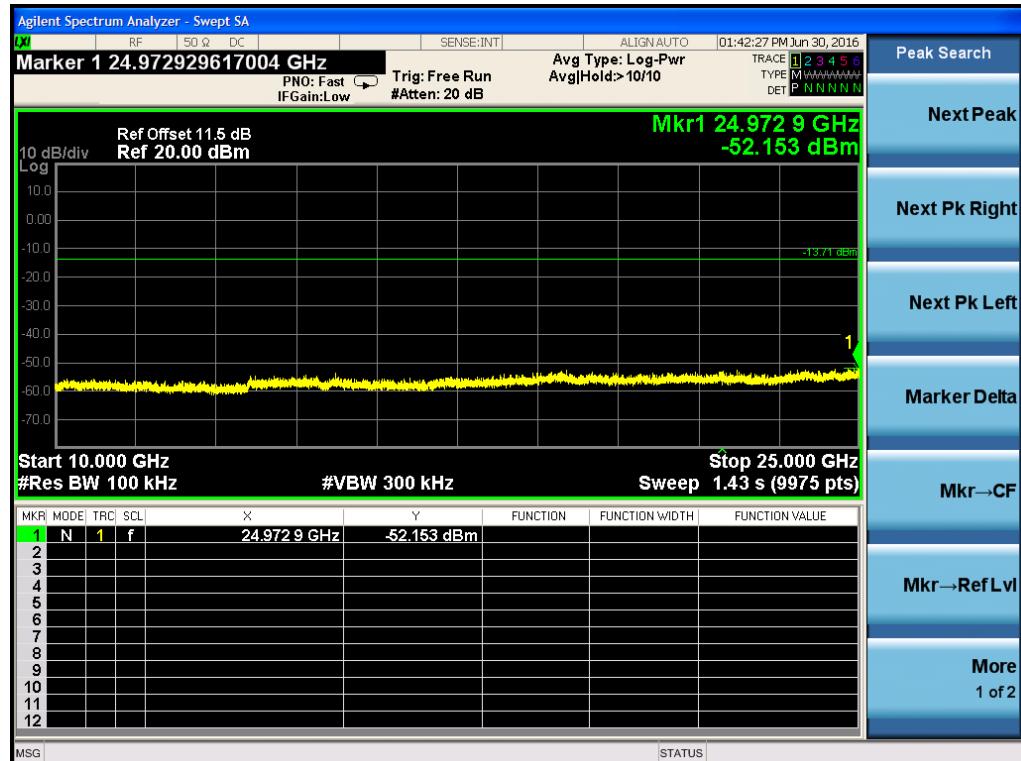
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11b, ANT 1 Low Channel**



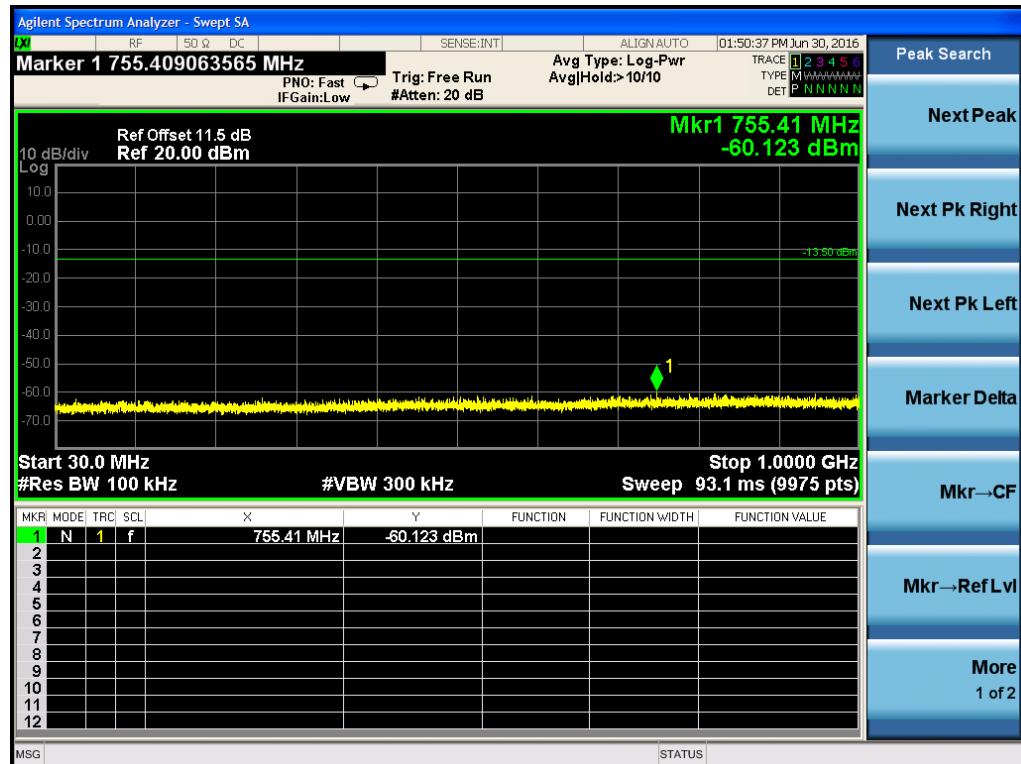
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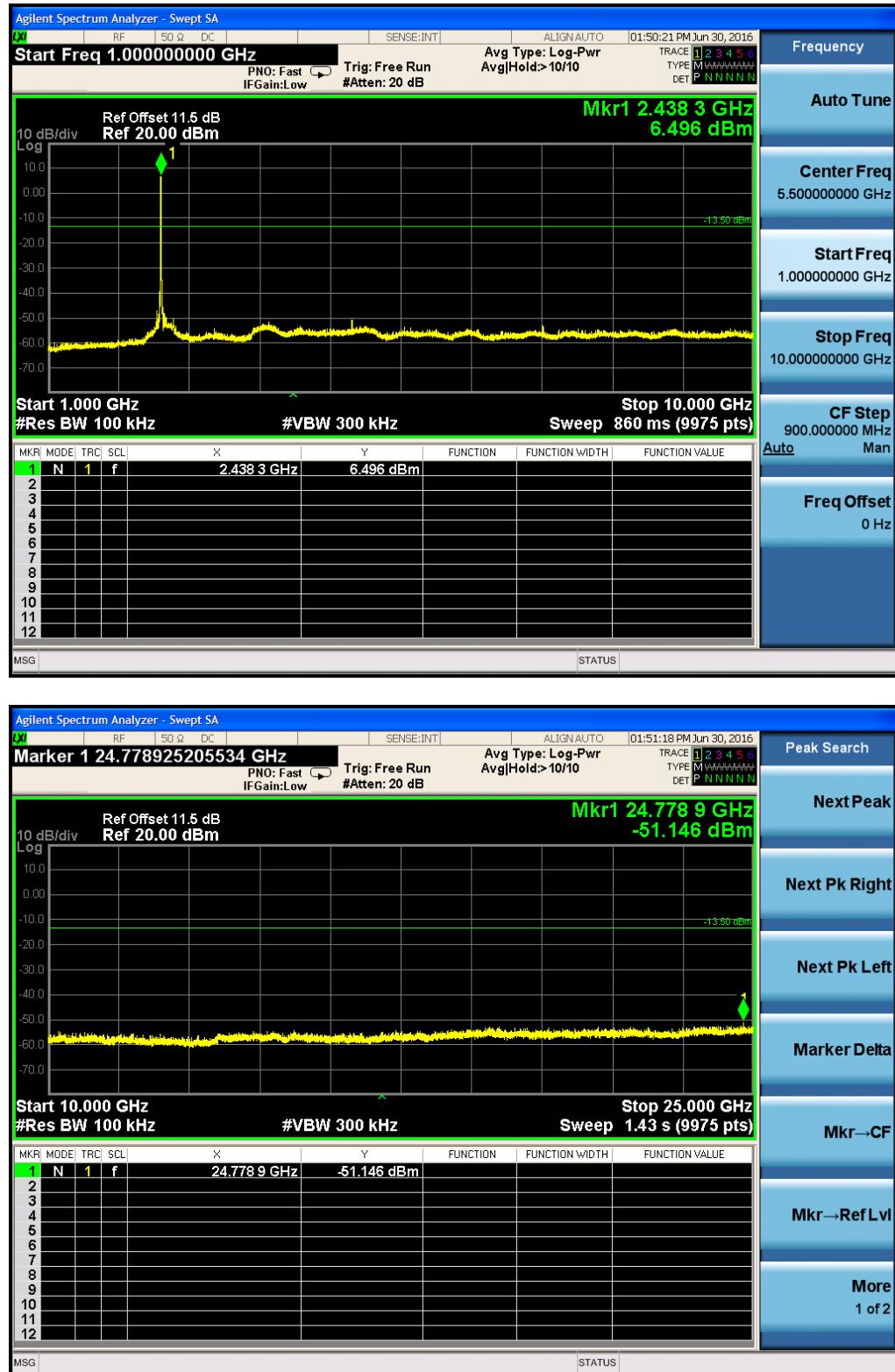
## Middle Channel



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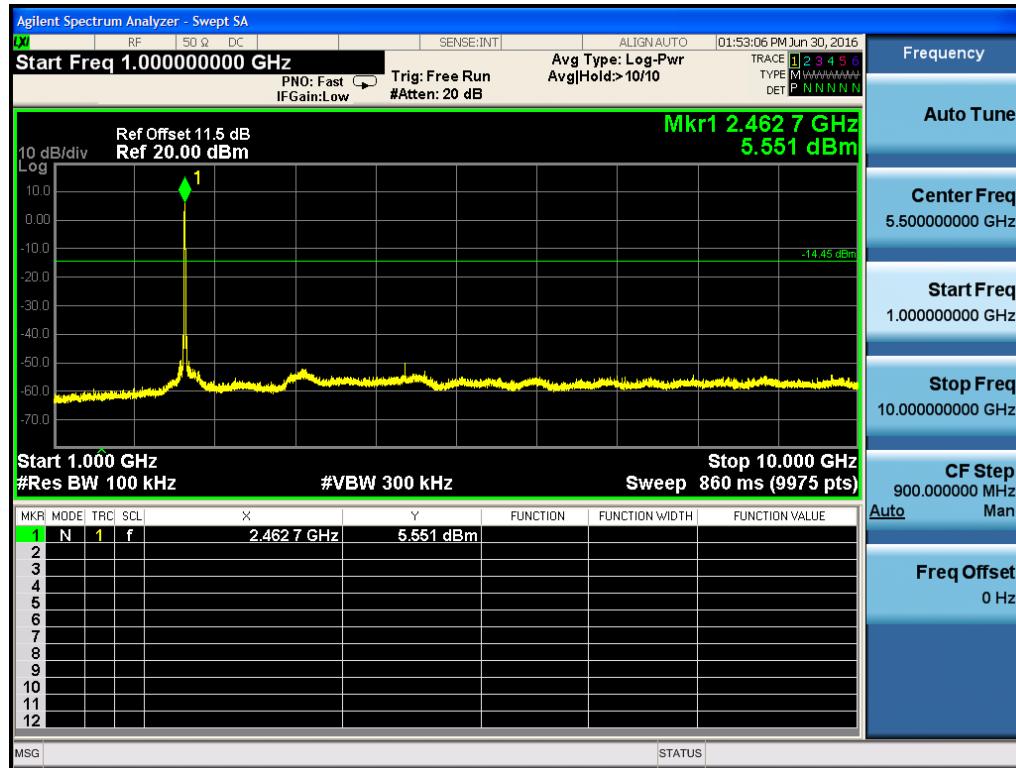
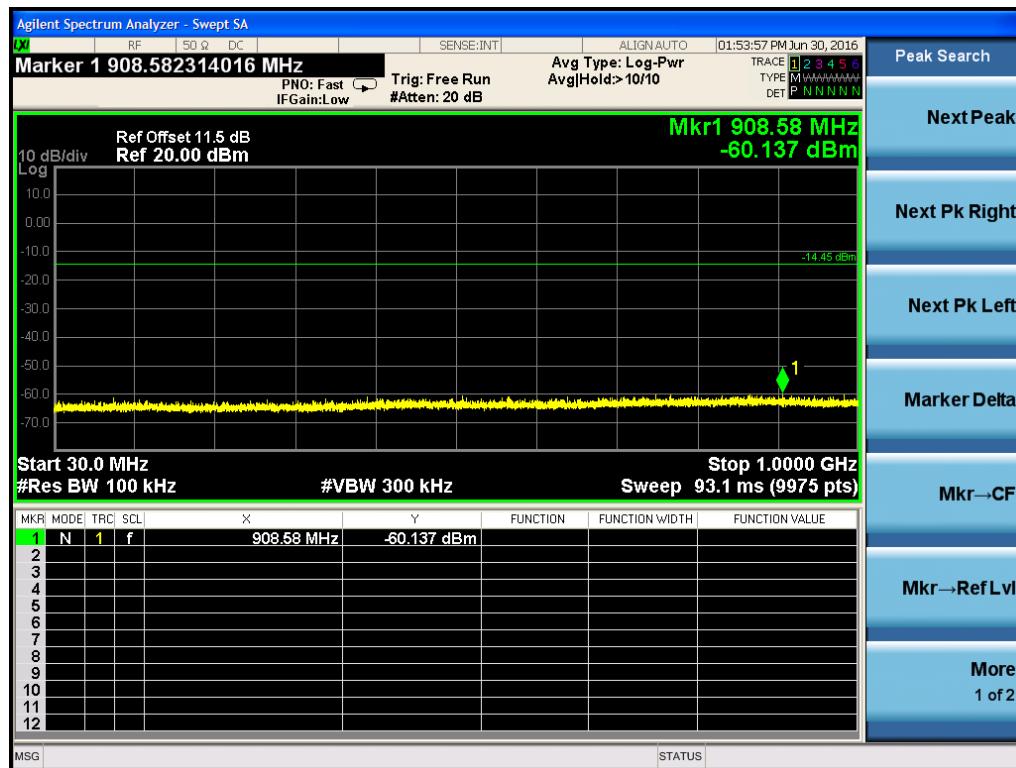


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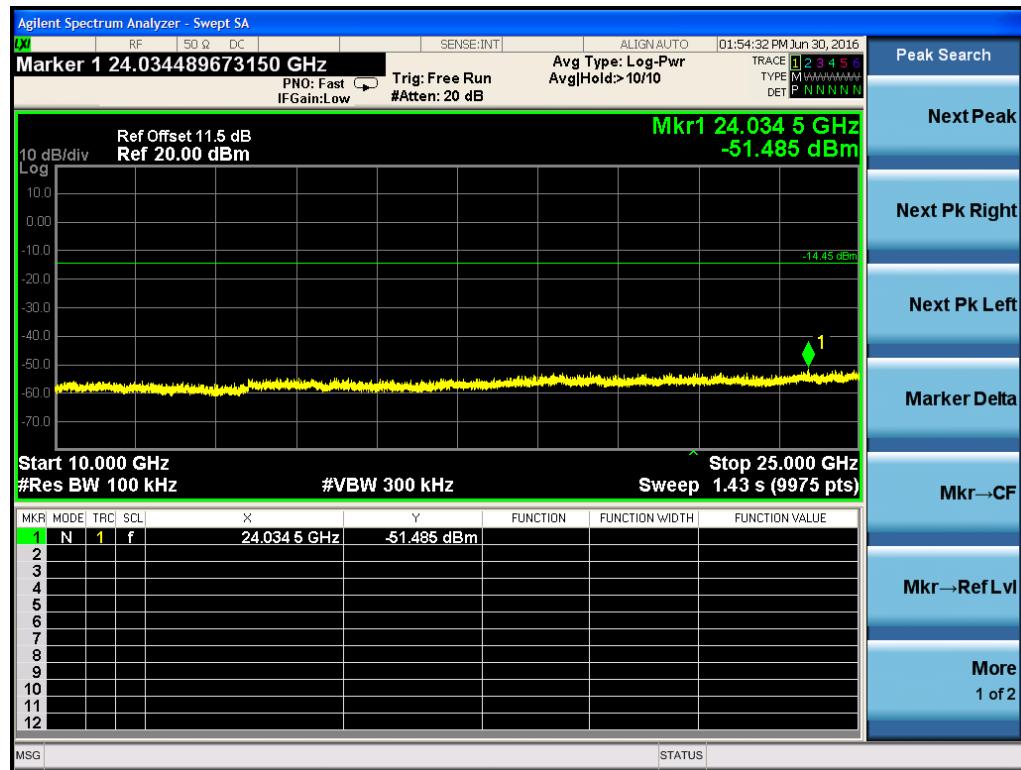
## High Channel



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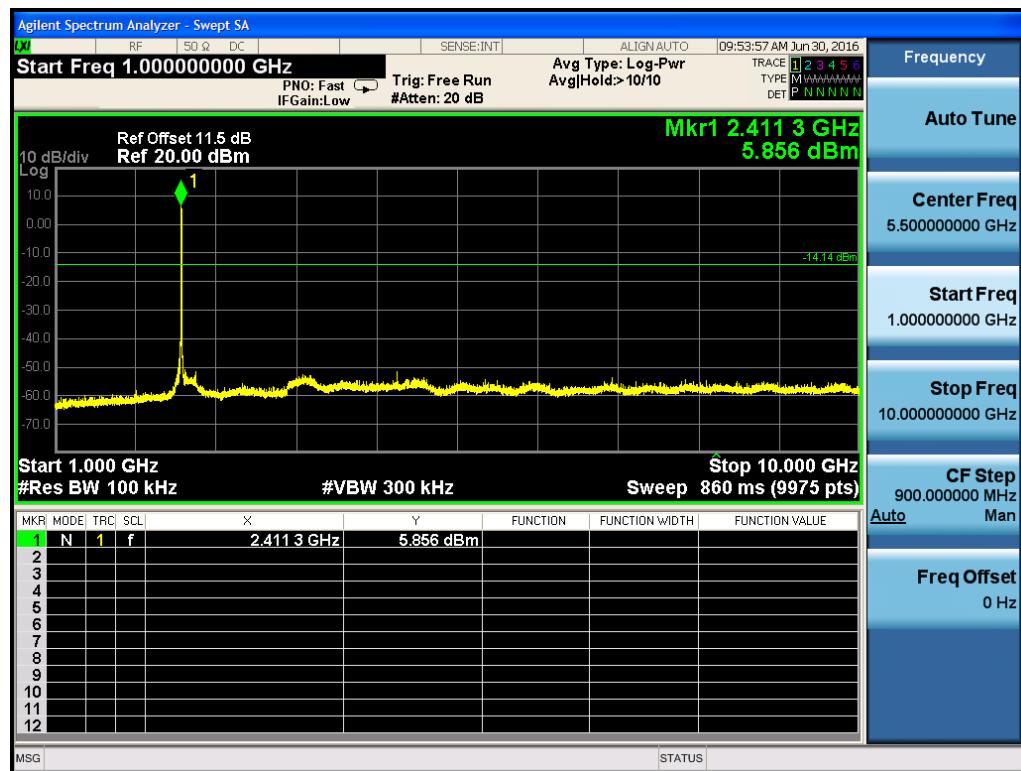
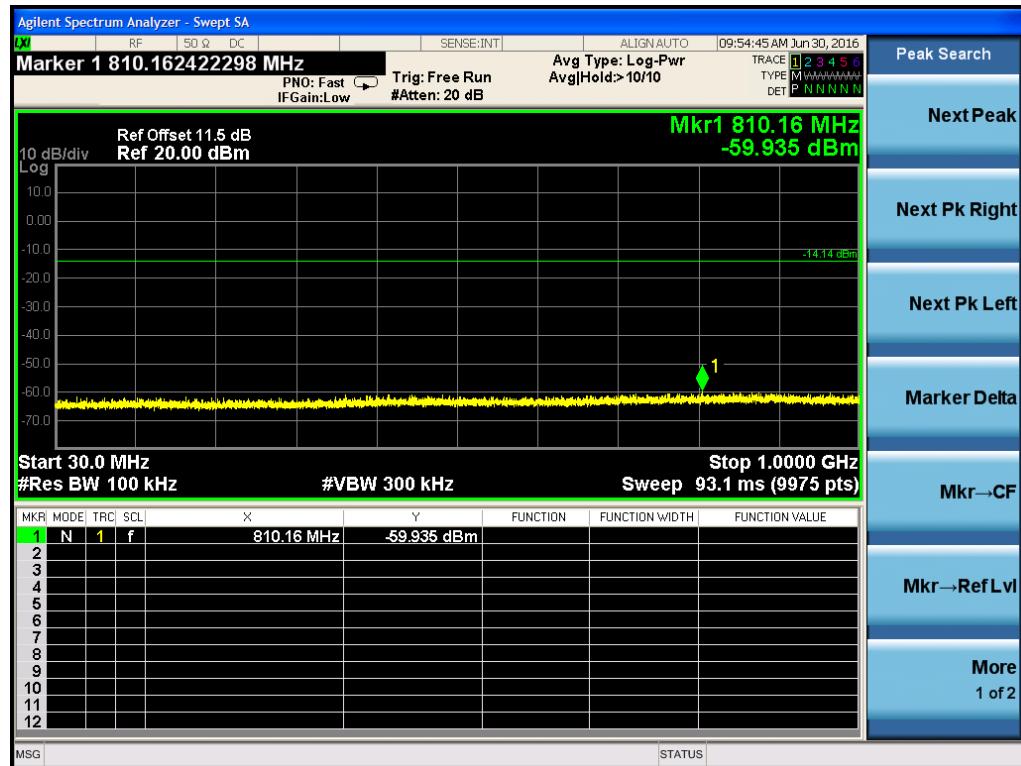
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## Band Edge

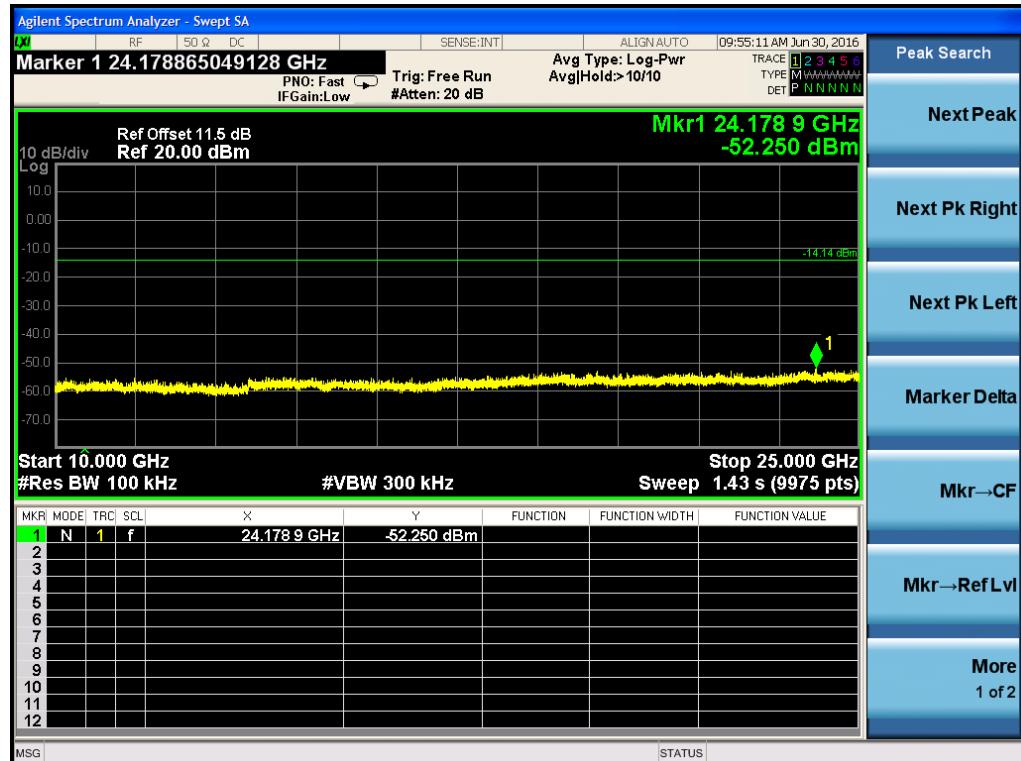


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**Test Plot of Conducted spurious emissions measured in 100kHz  
Bandwidth of 802.11b, ANT 2  
Low Channel**


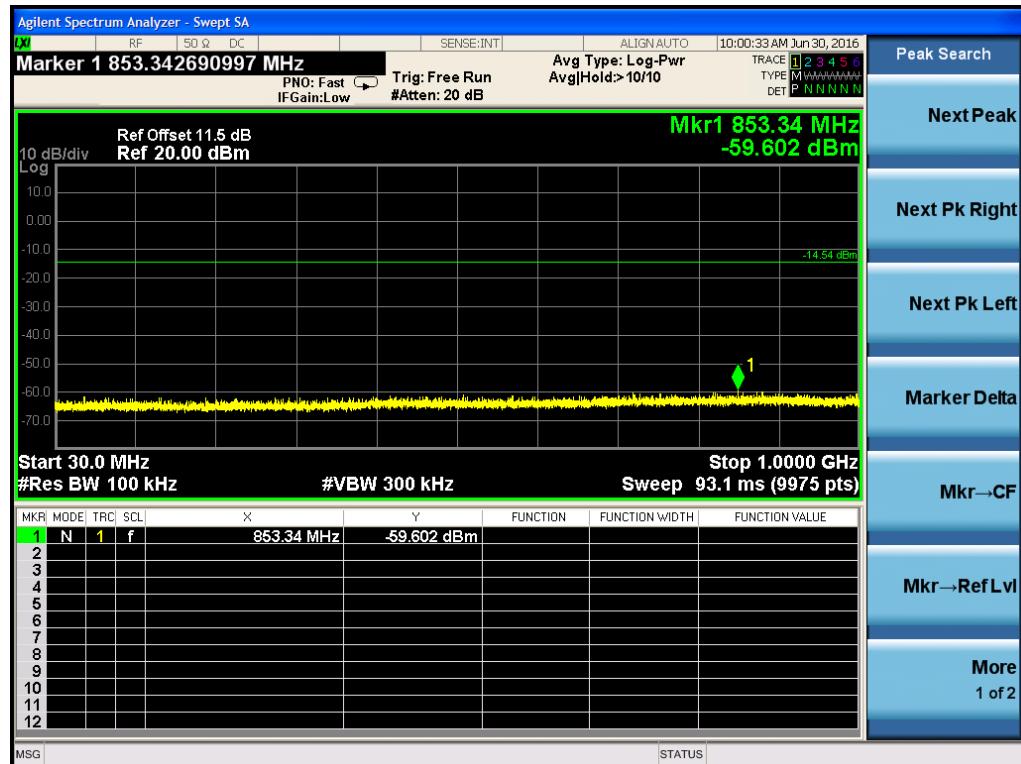
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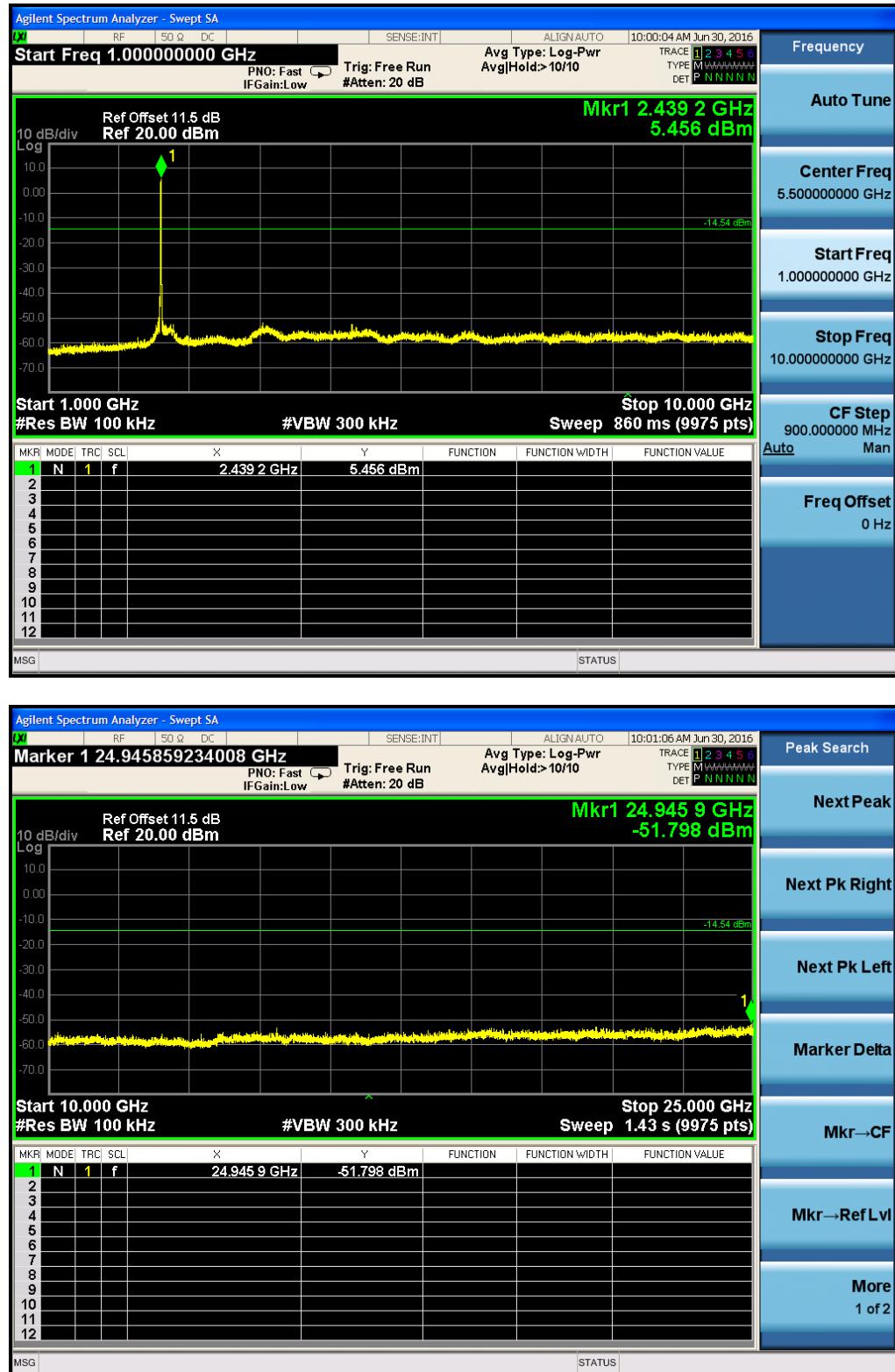
## Middle Channel



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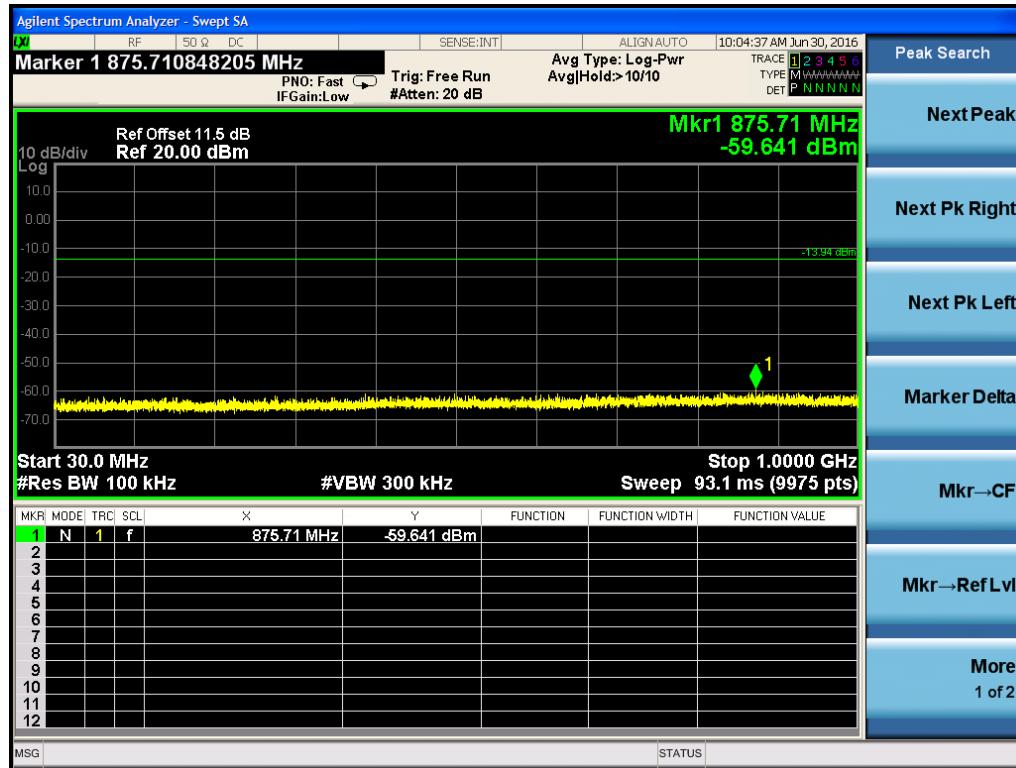
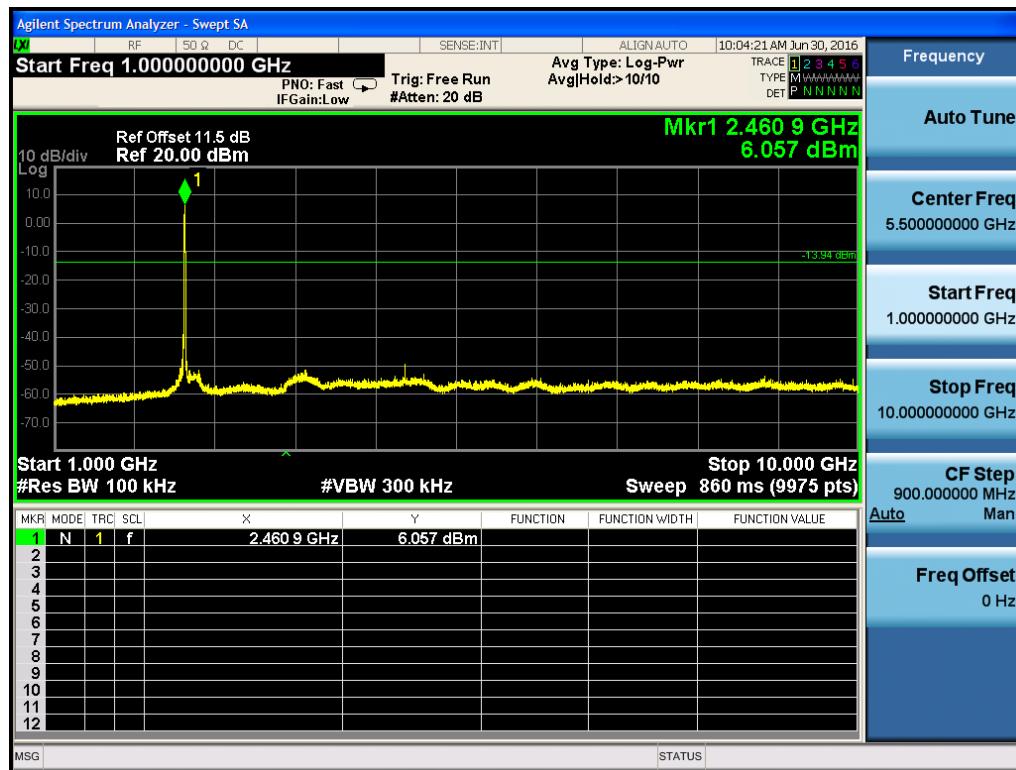


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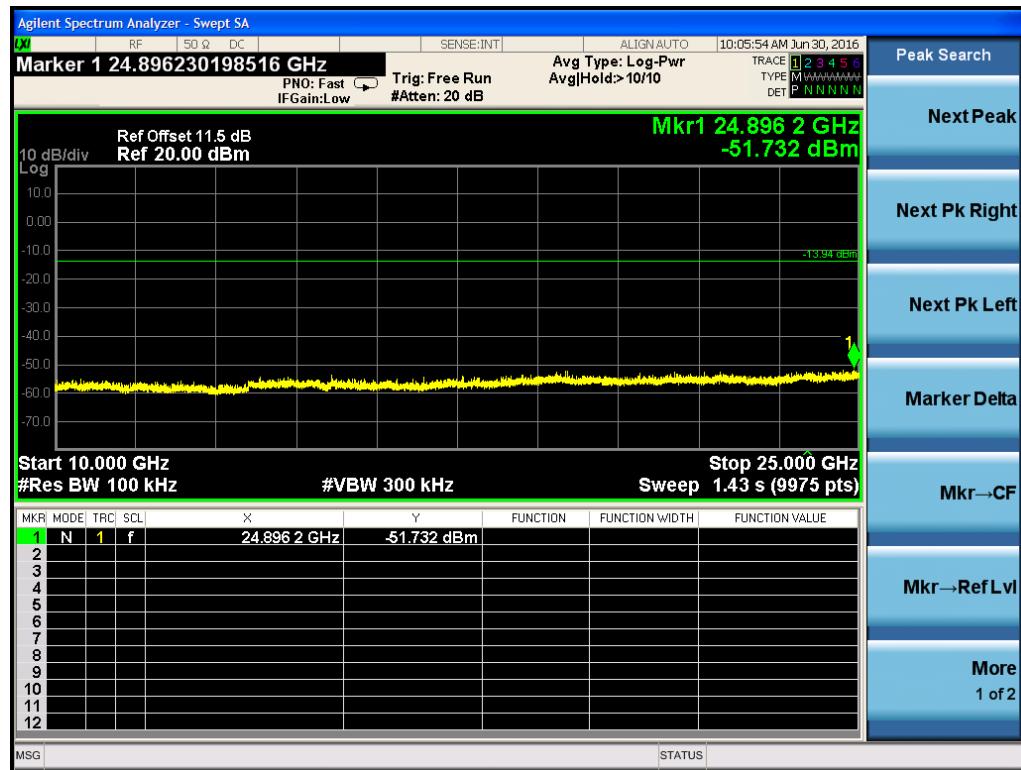
## High Channel



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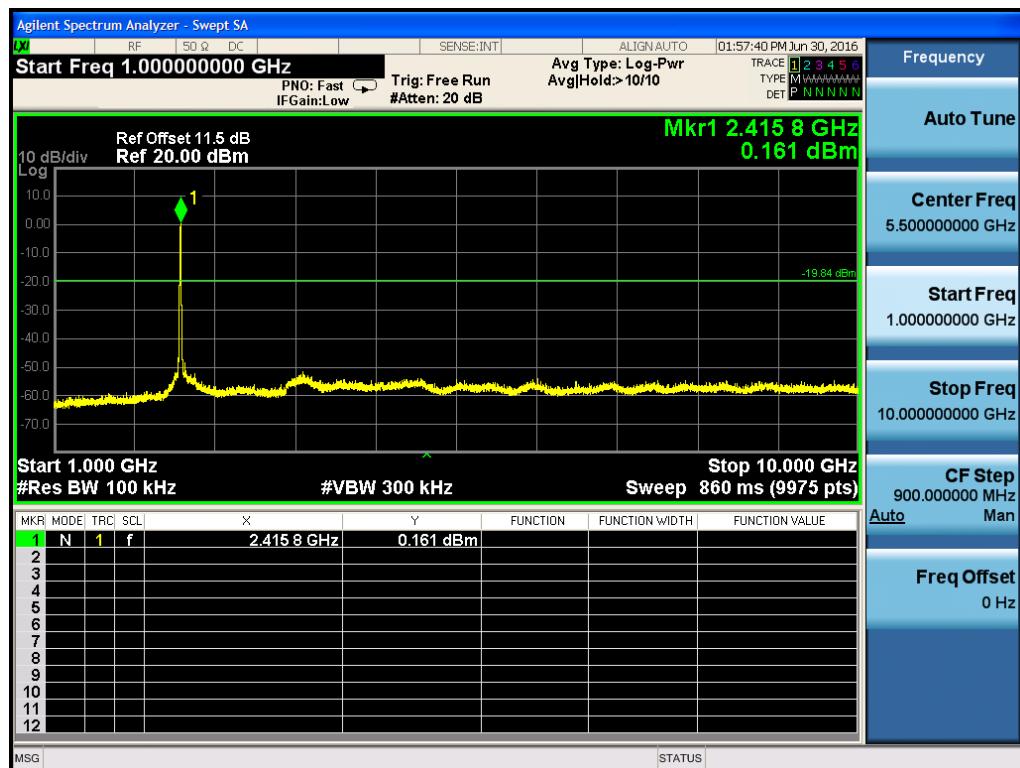
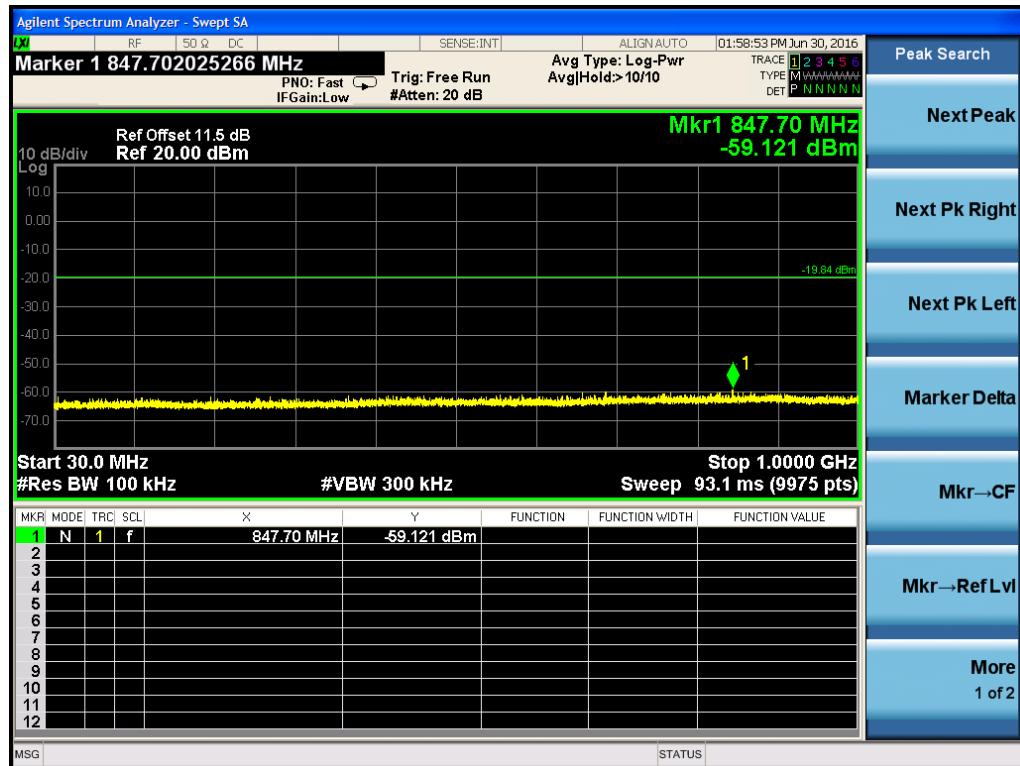
## **Band Edge**



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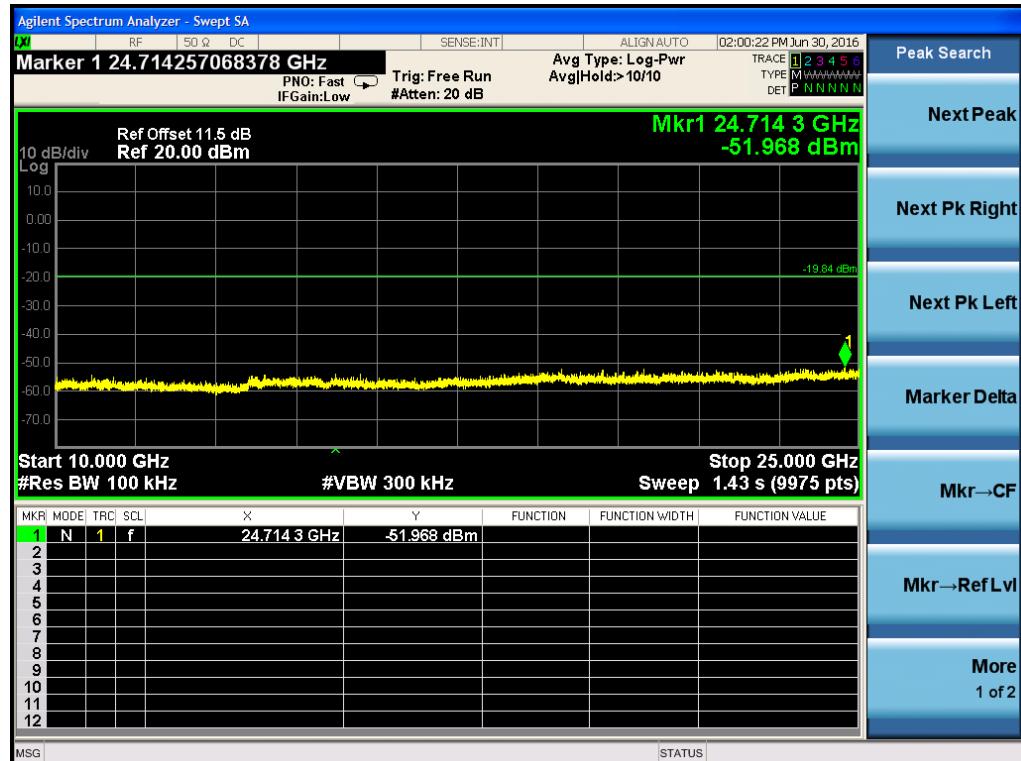
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11g, ANT 1 Low Channel**



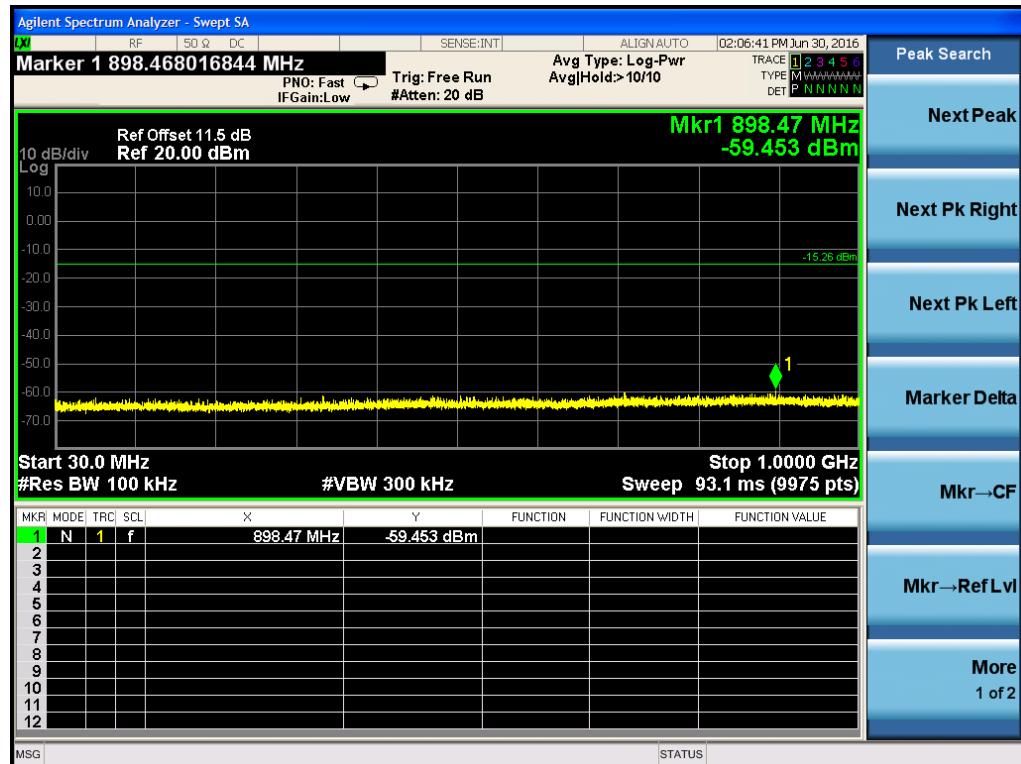
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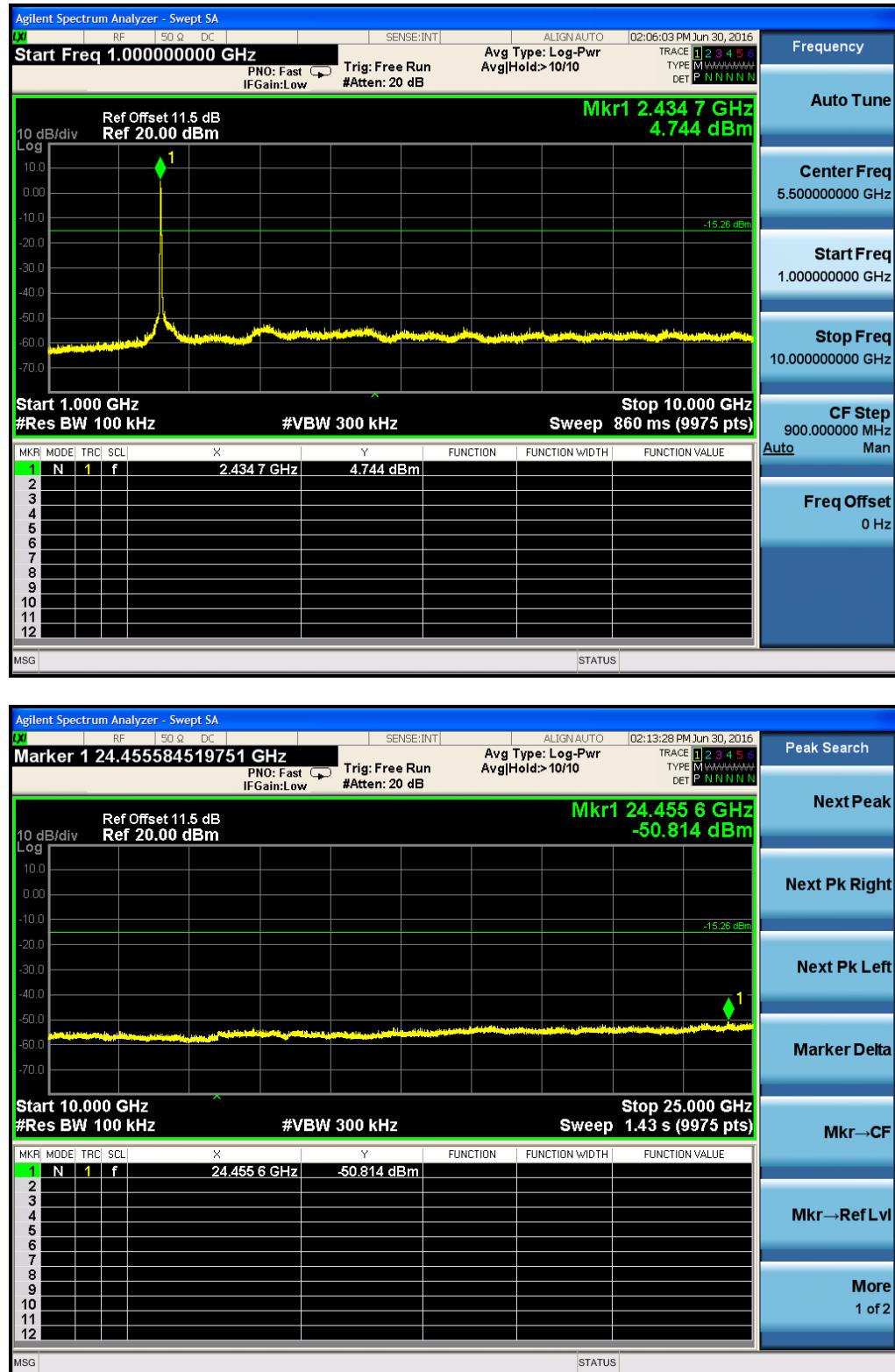
## Middle Channel



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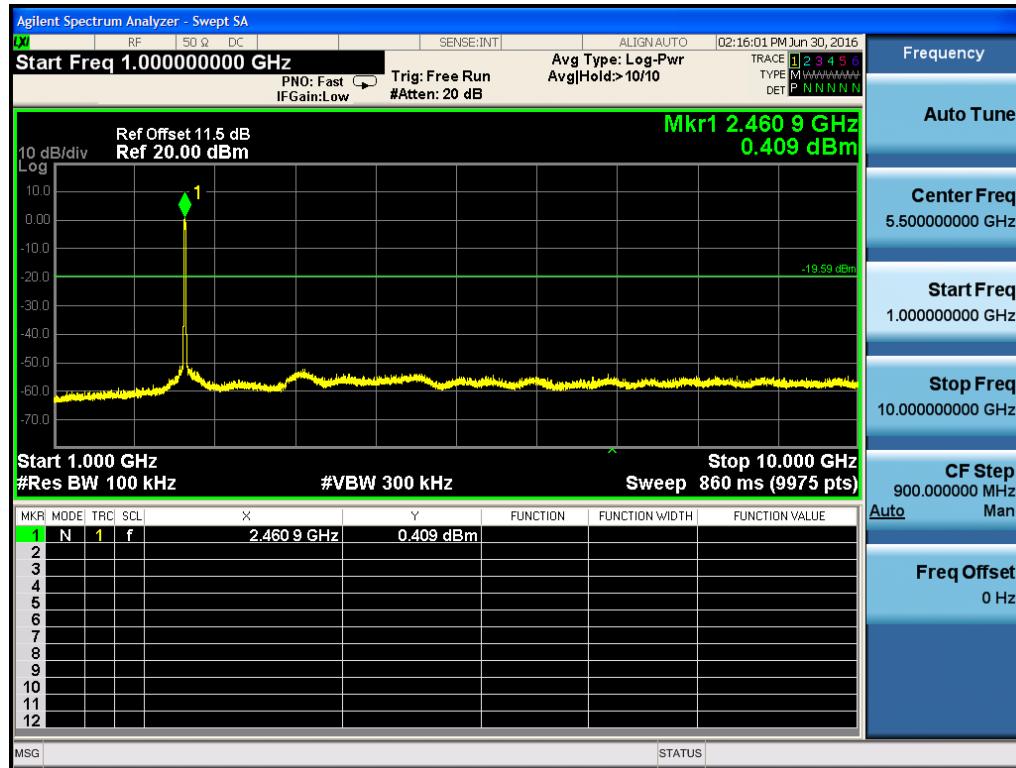
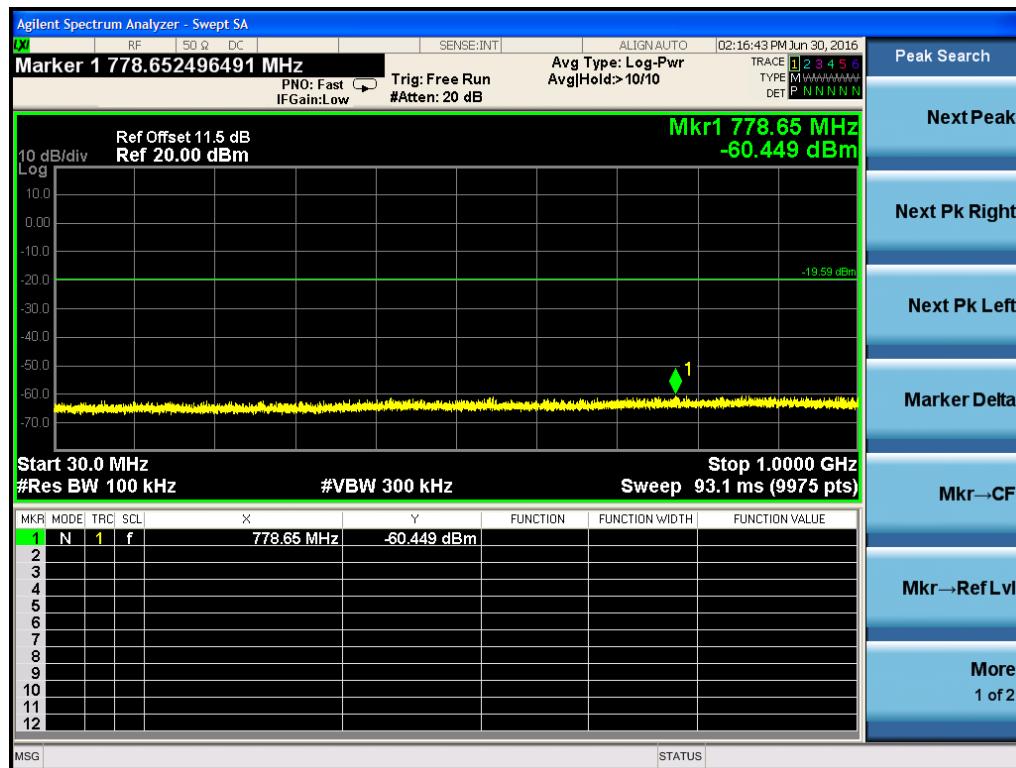


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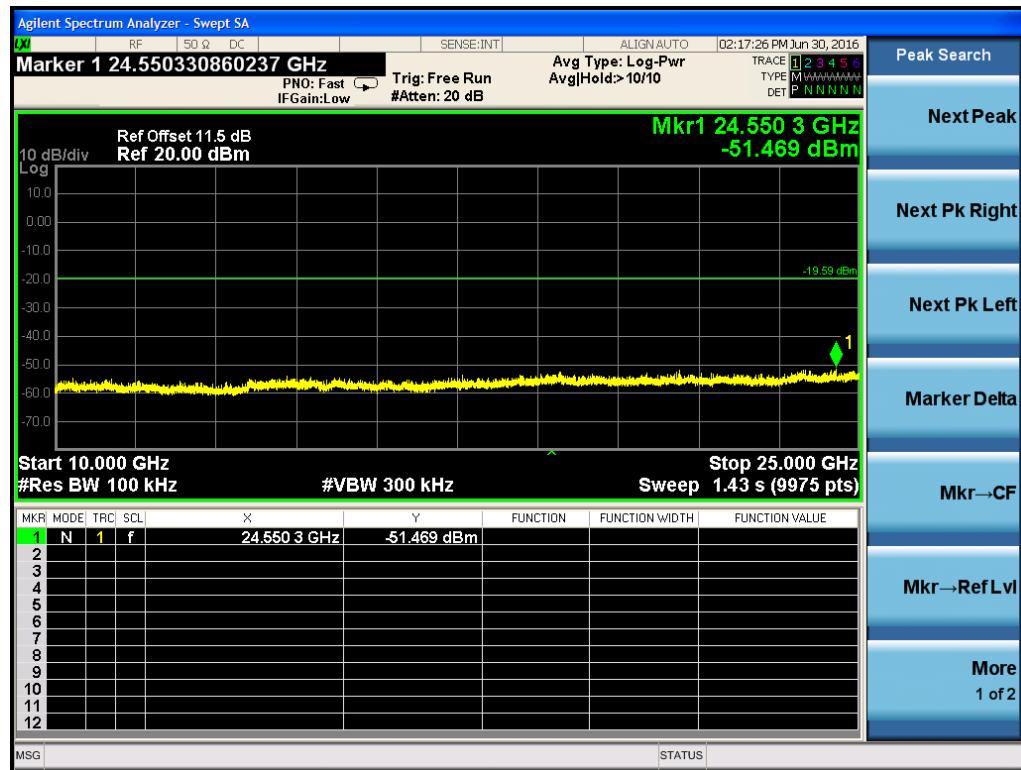
## High Channel



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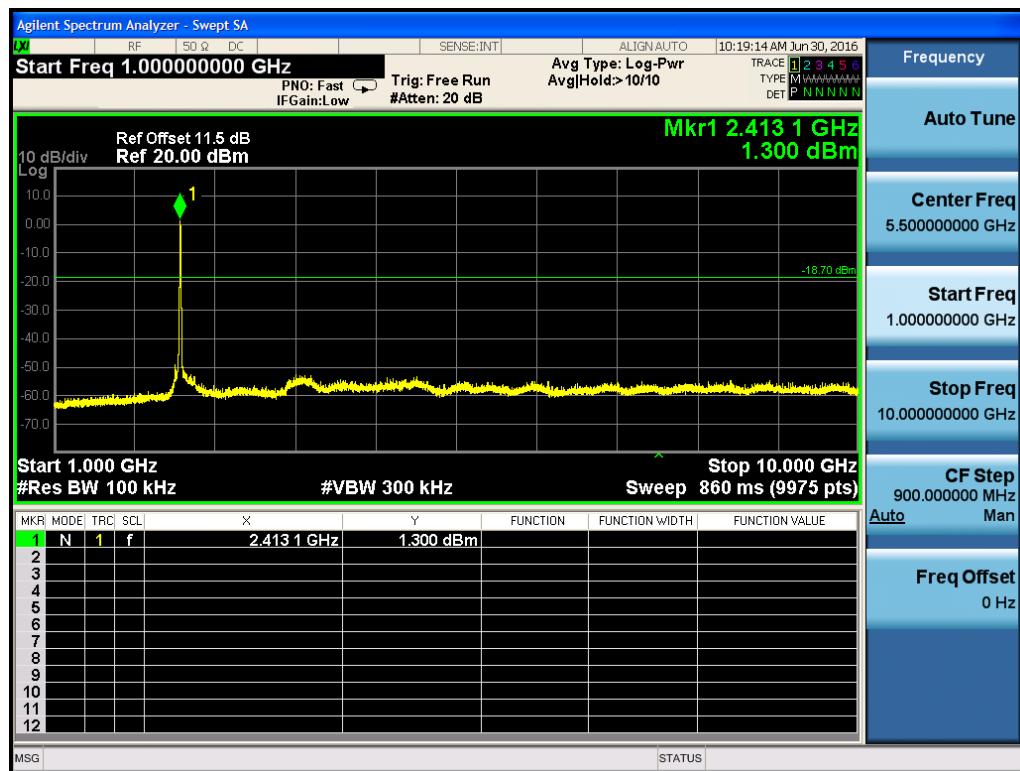
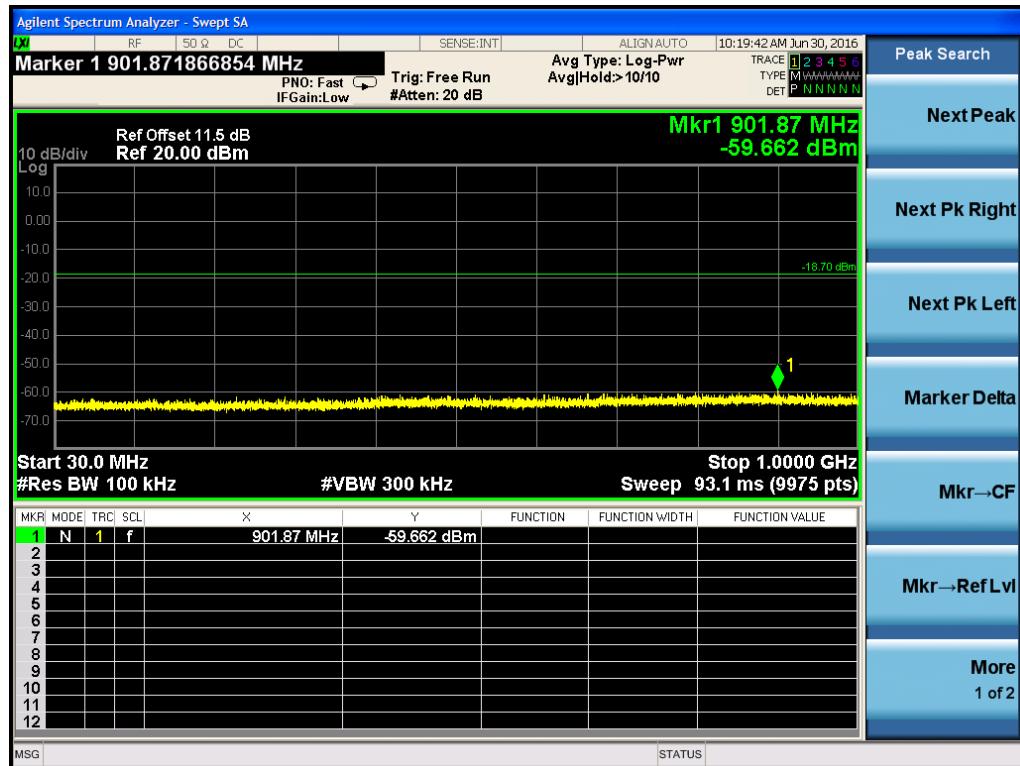
## Band Edge



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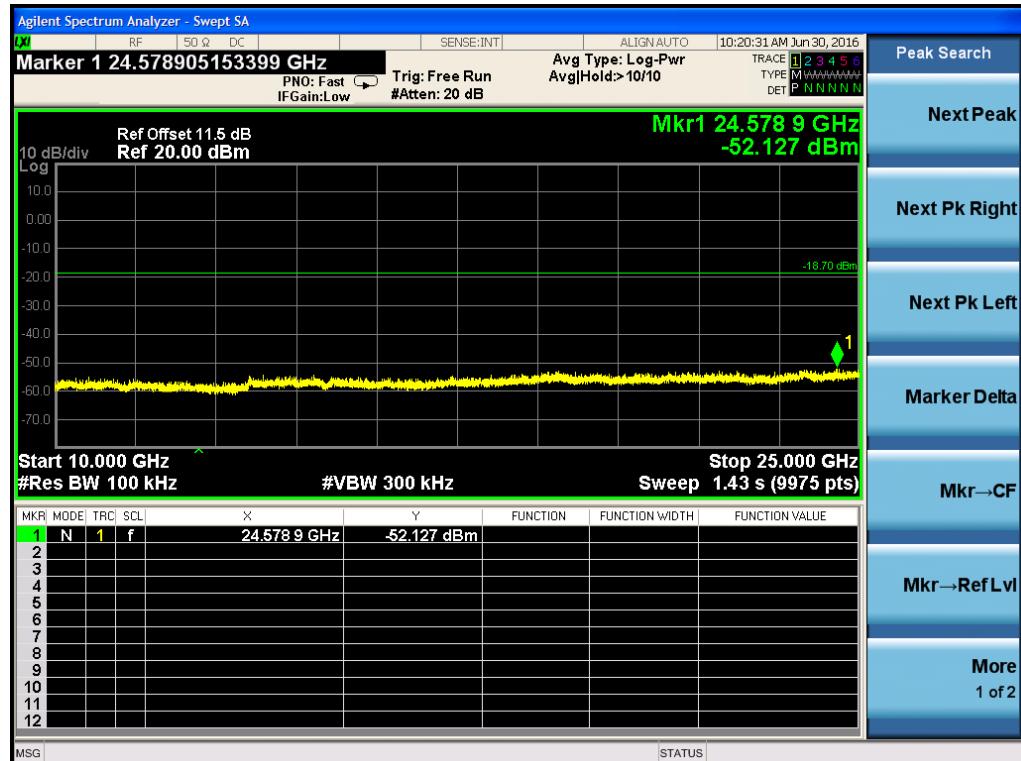
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11g, ANT 2 Low Channel**



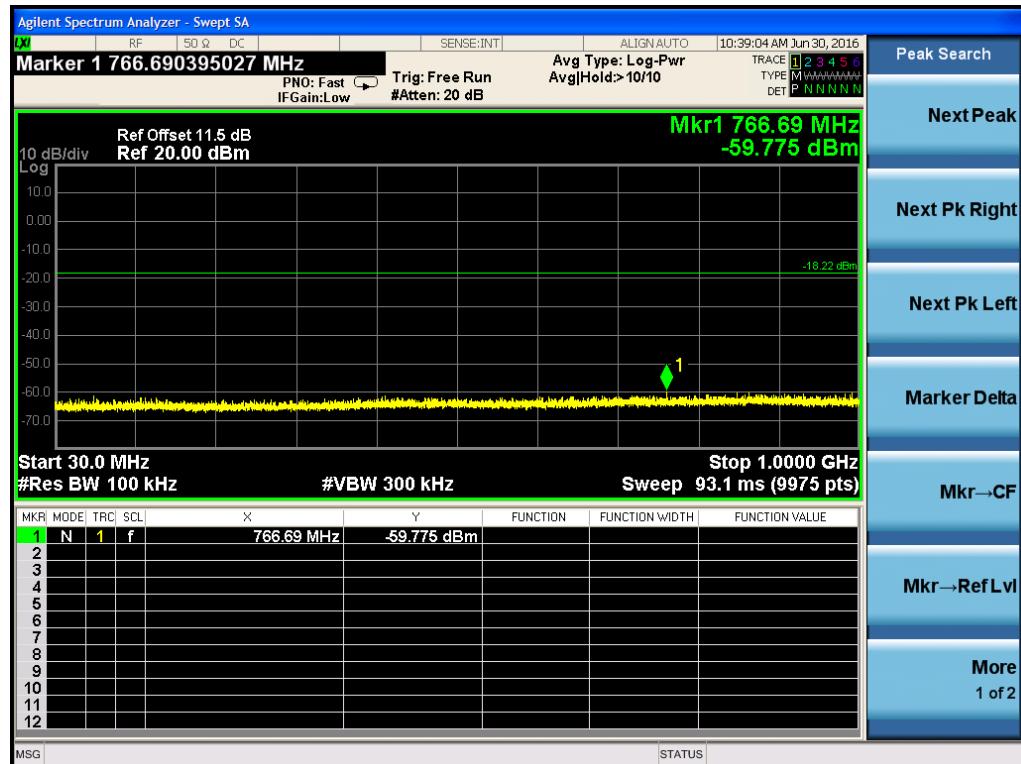
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## Middle Channel

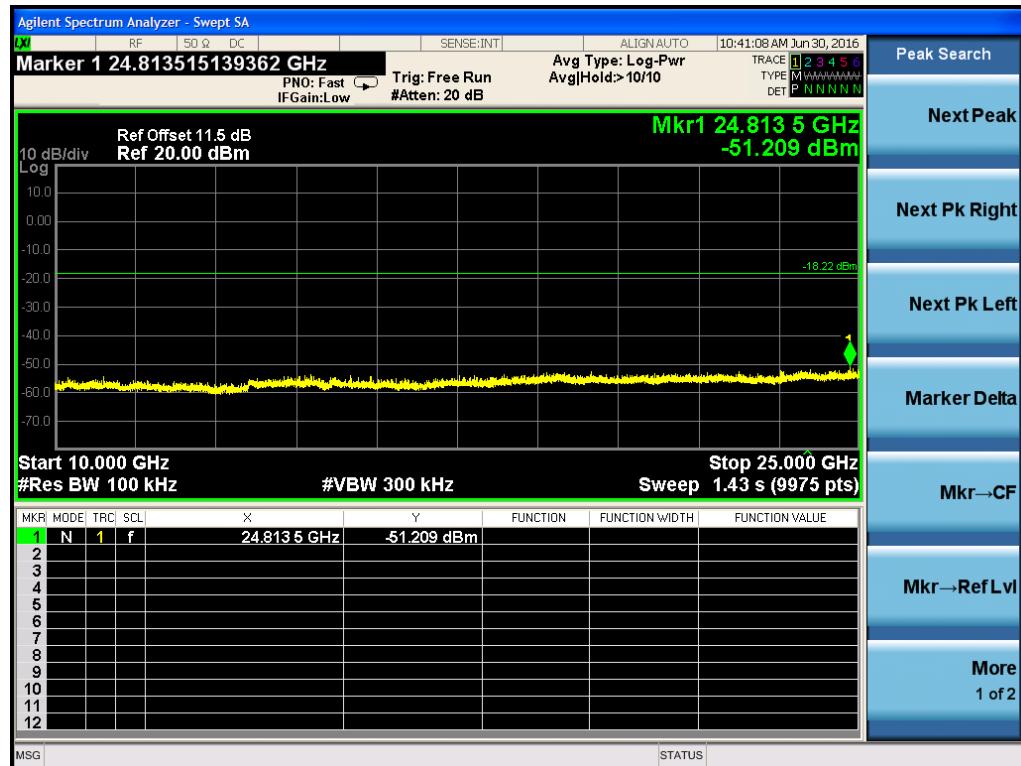
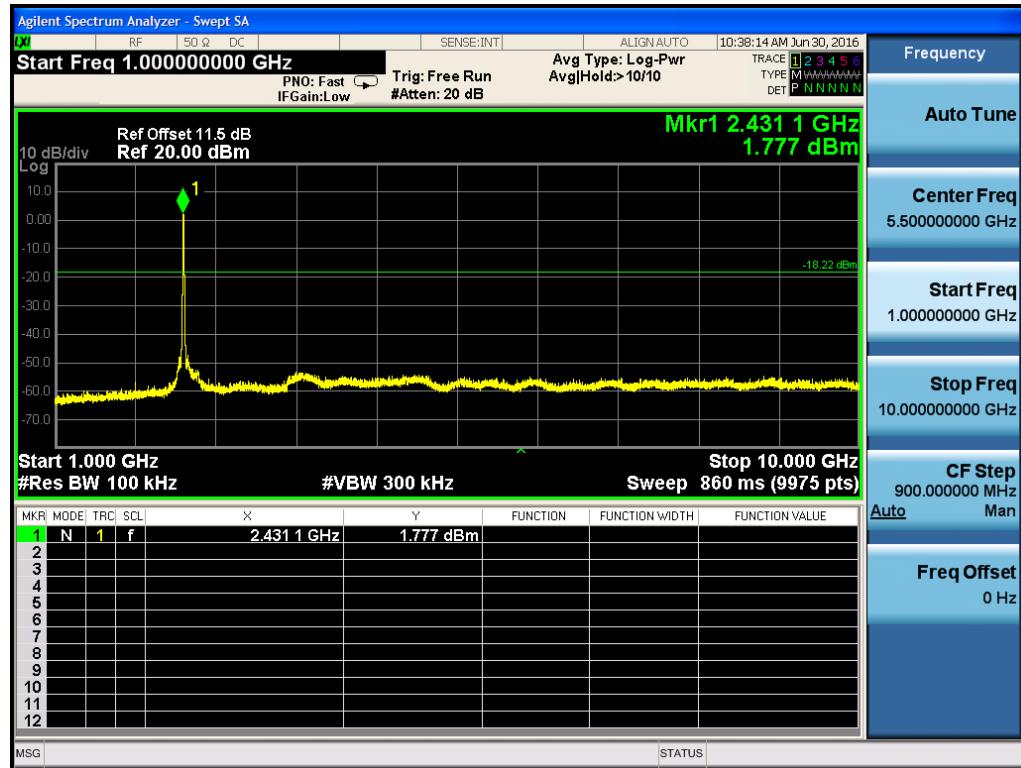


## Produkte

*Products*

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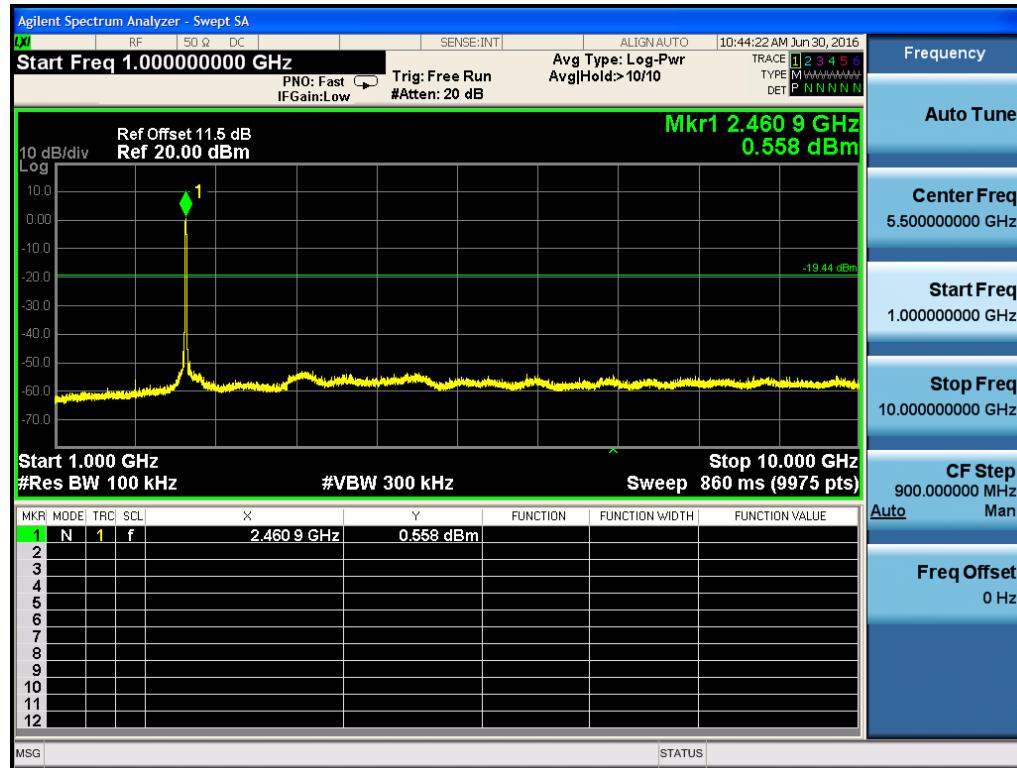
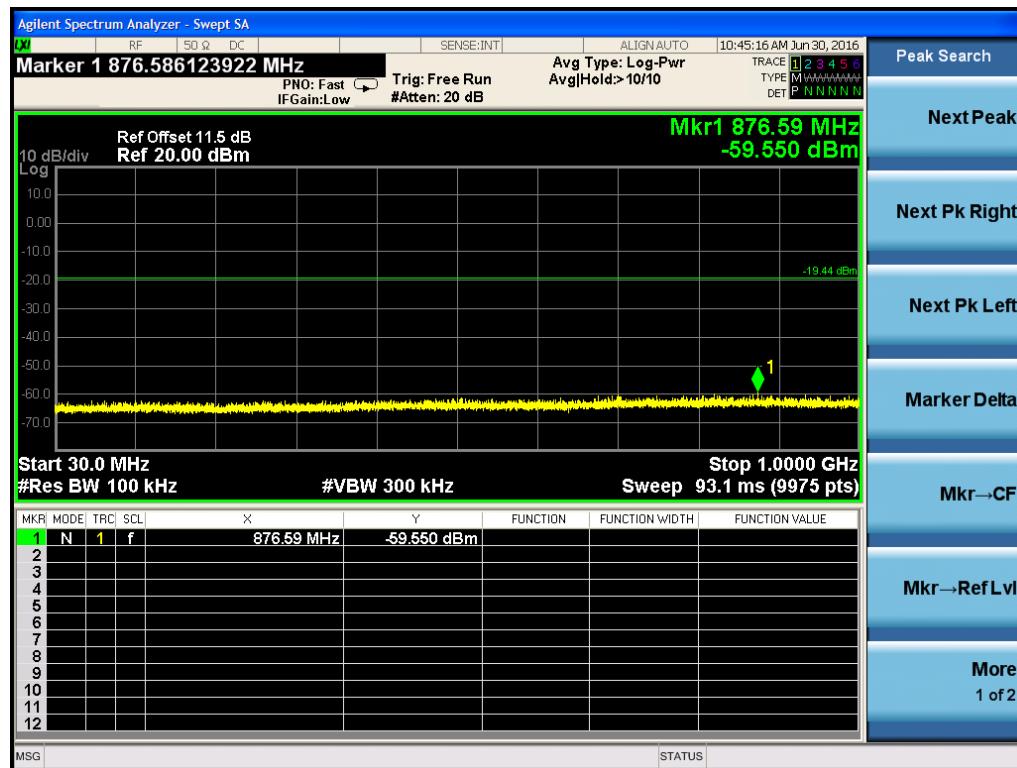


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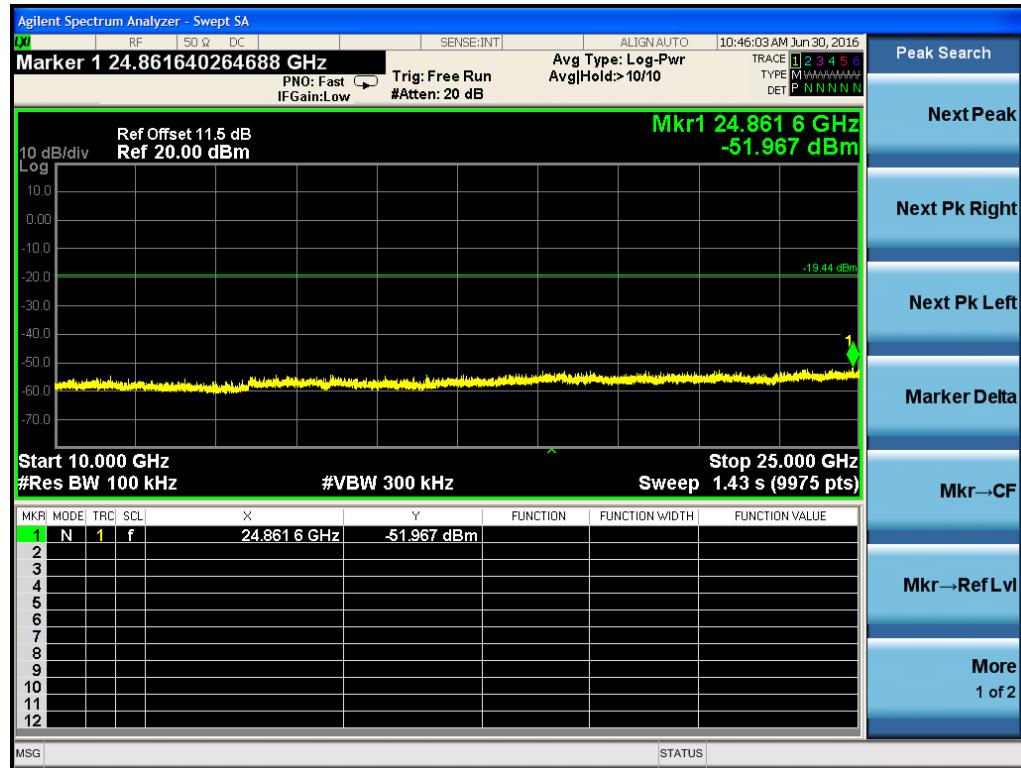
## High Channel



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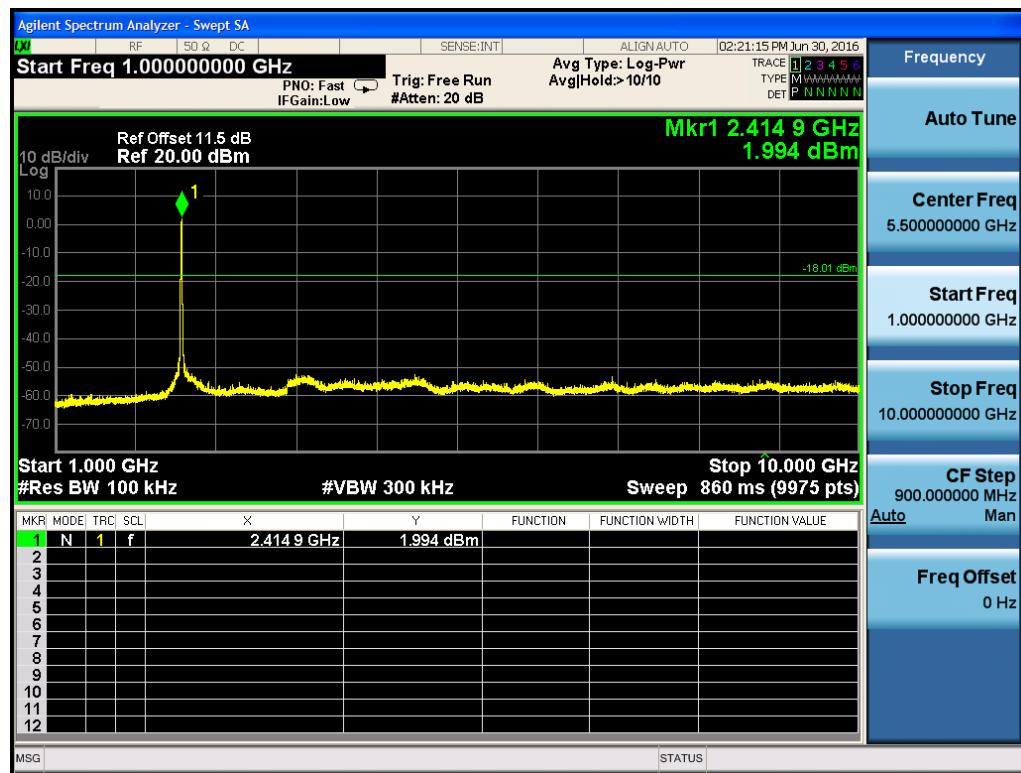
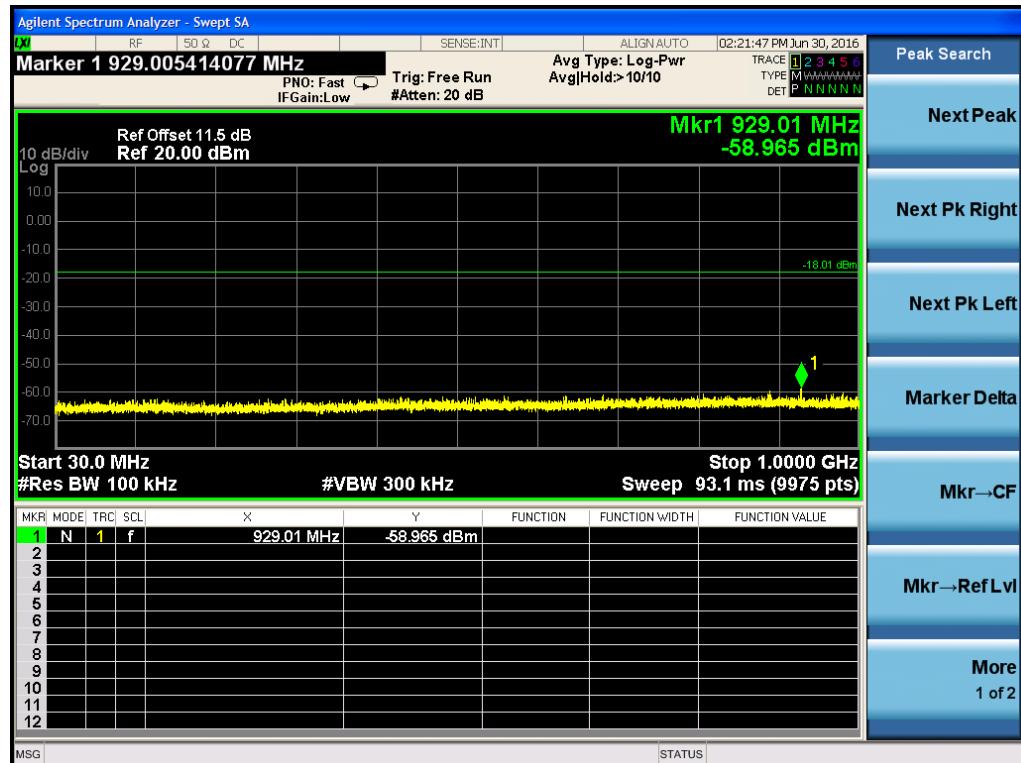
## Band Edge



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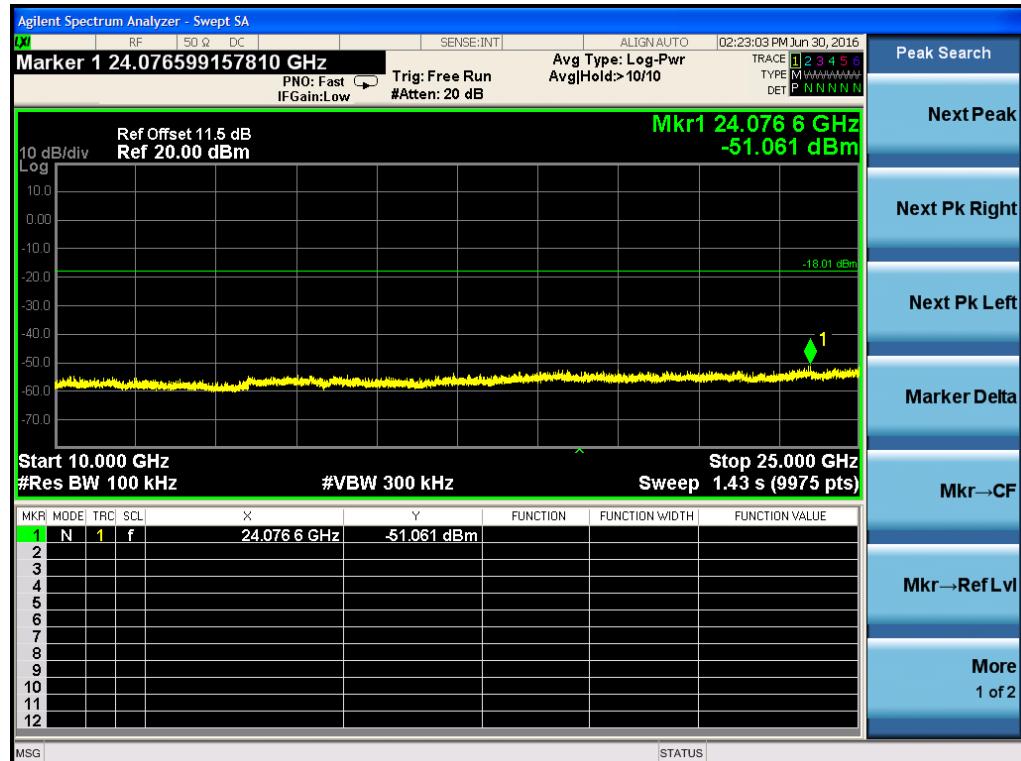
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11n (HT20), ANT 1 Low Channel**



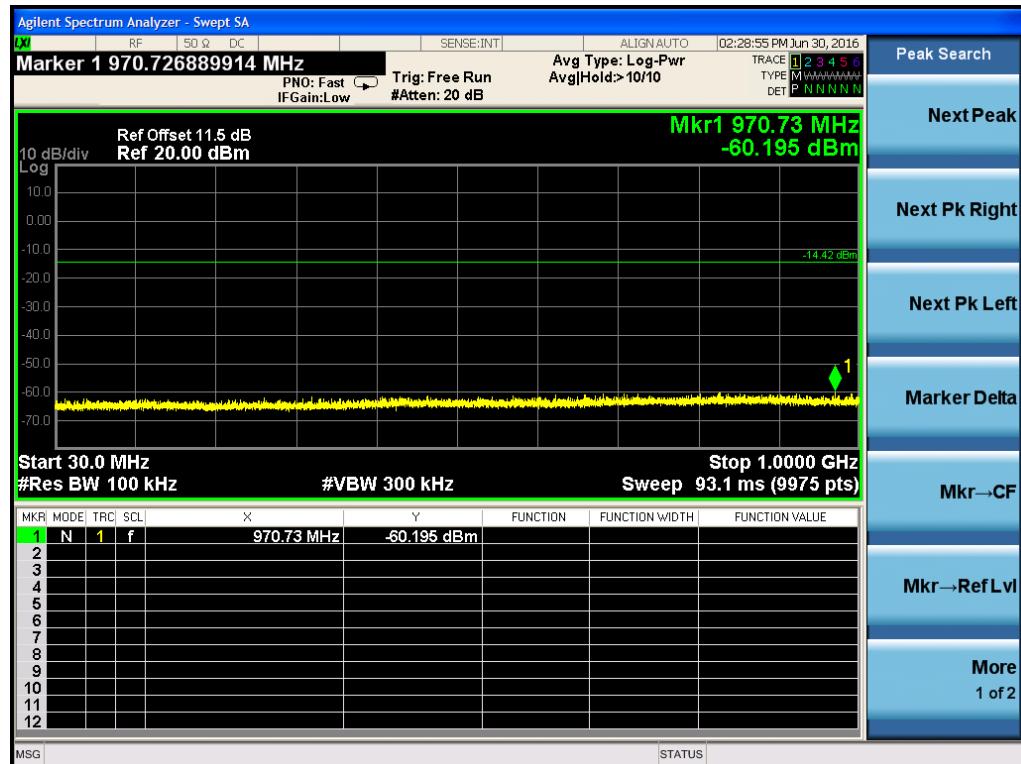
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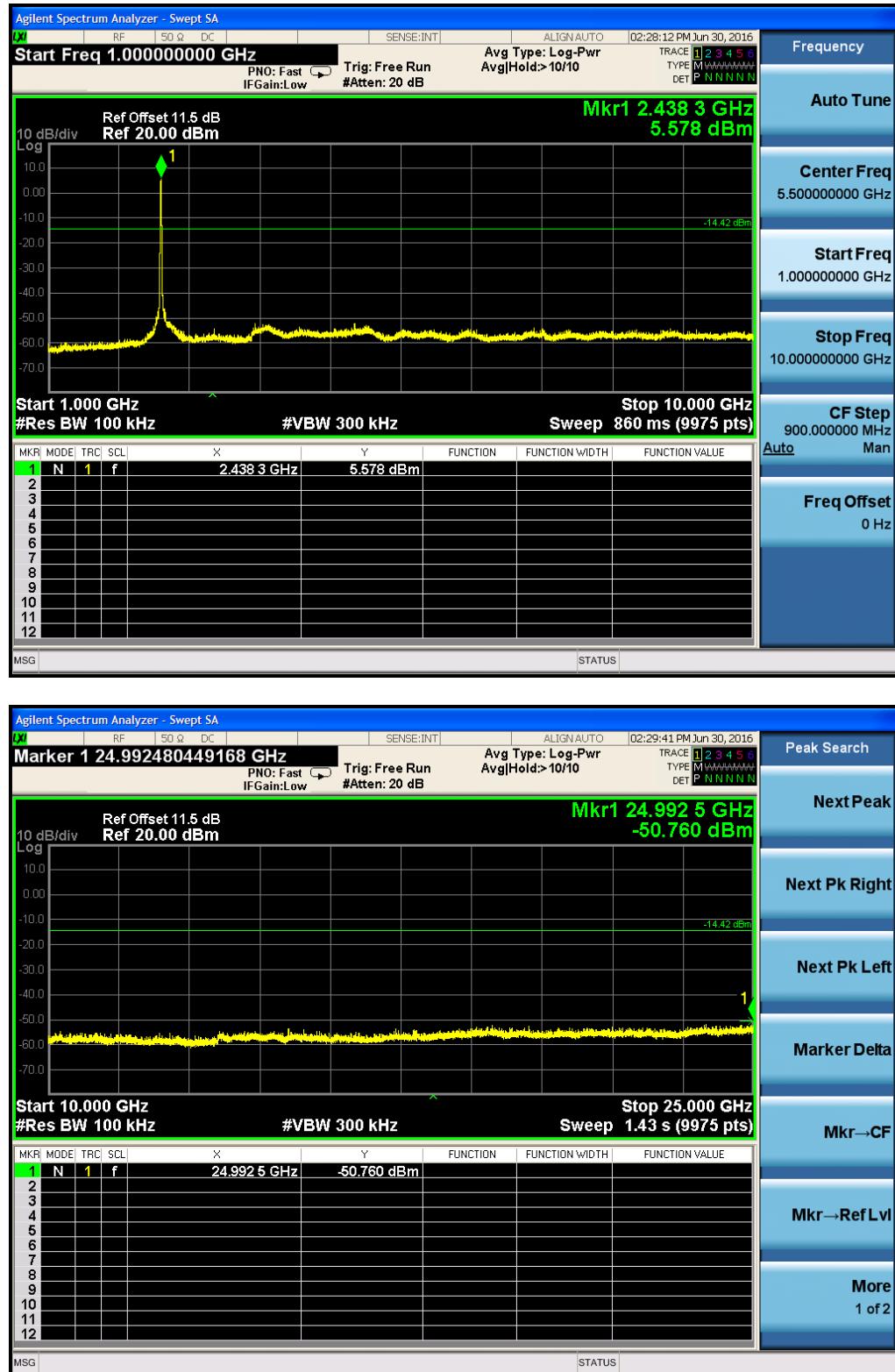
## Middle Channel



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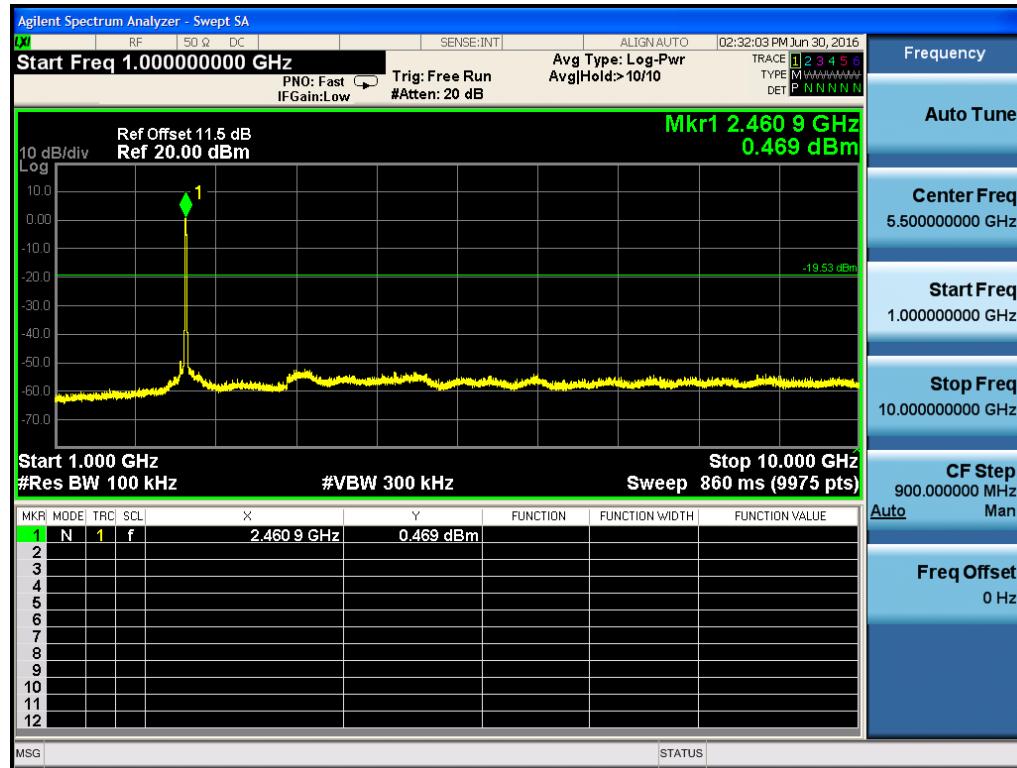
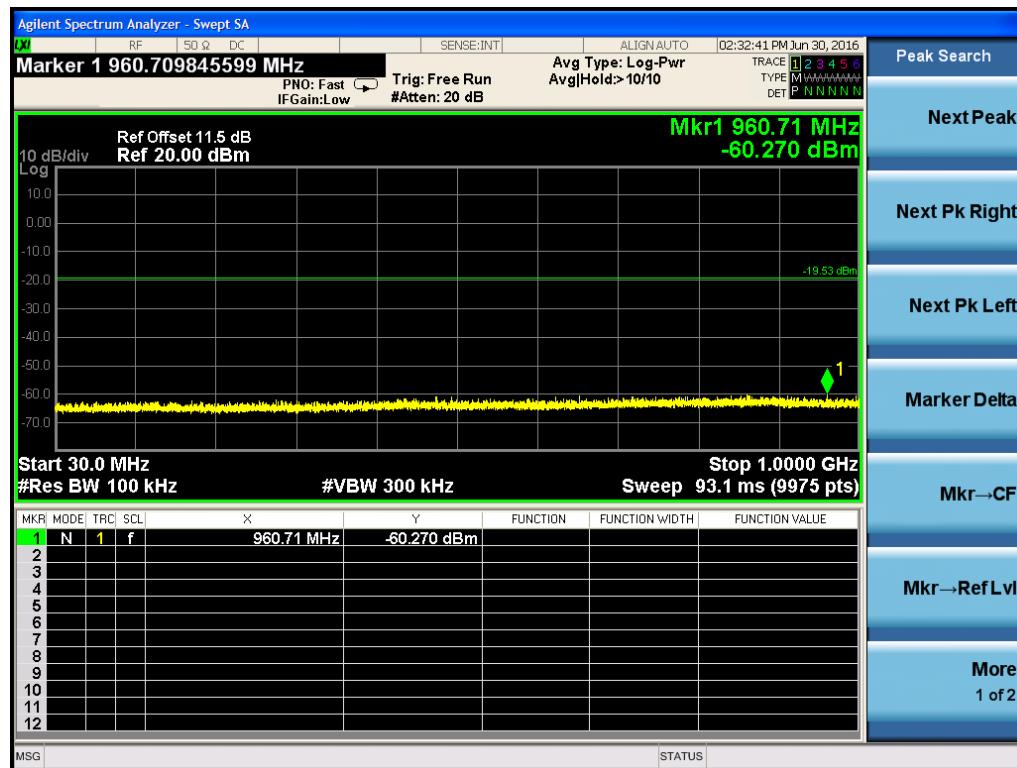


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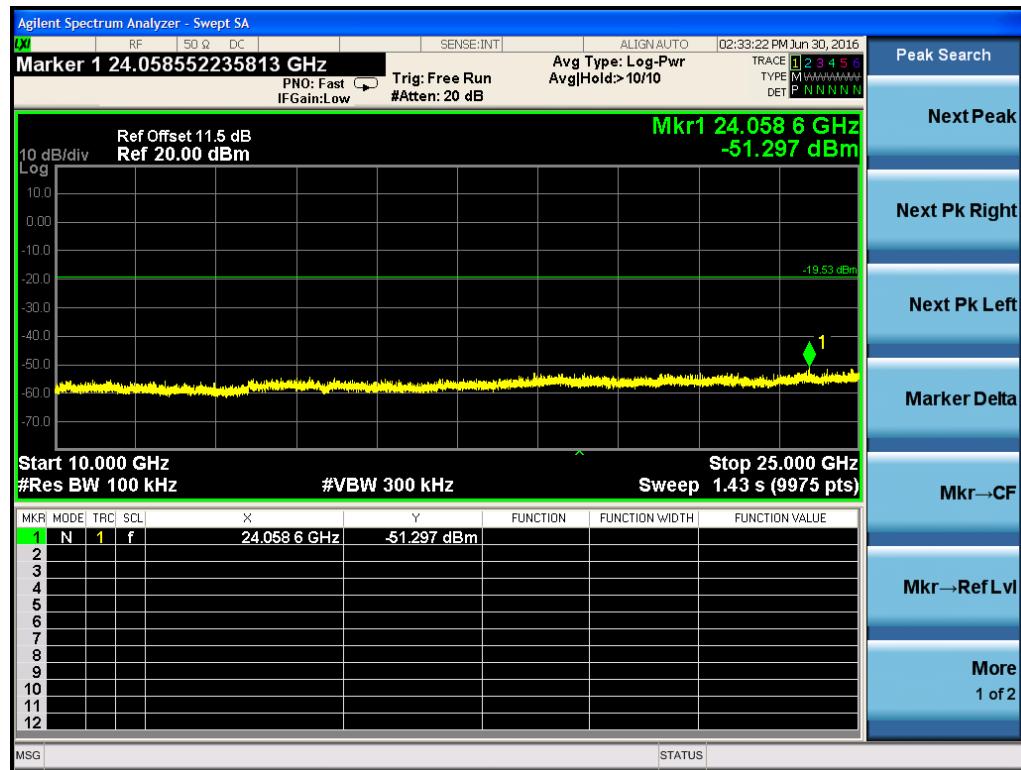
## High Channel



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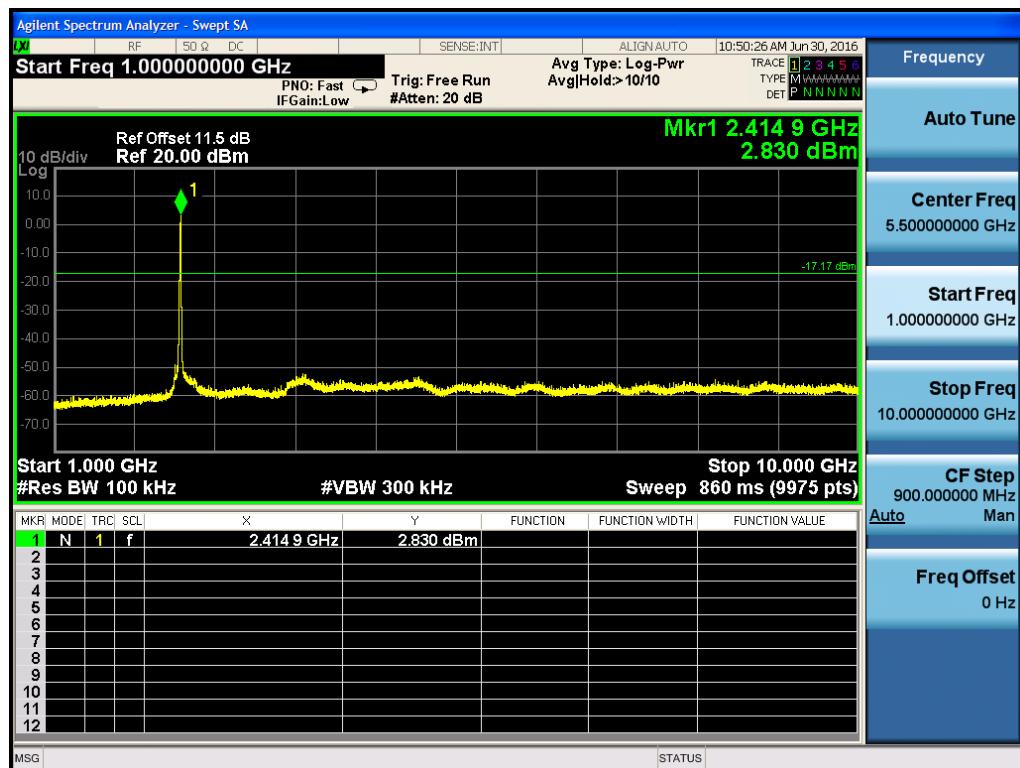
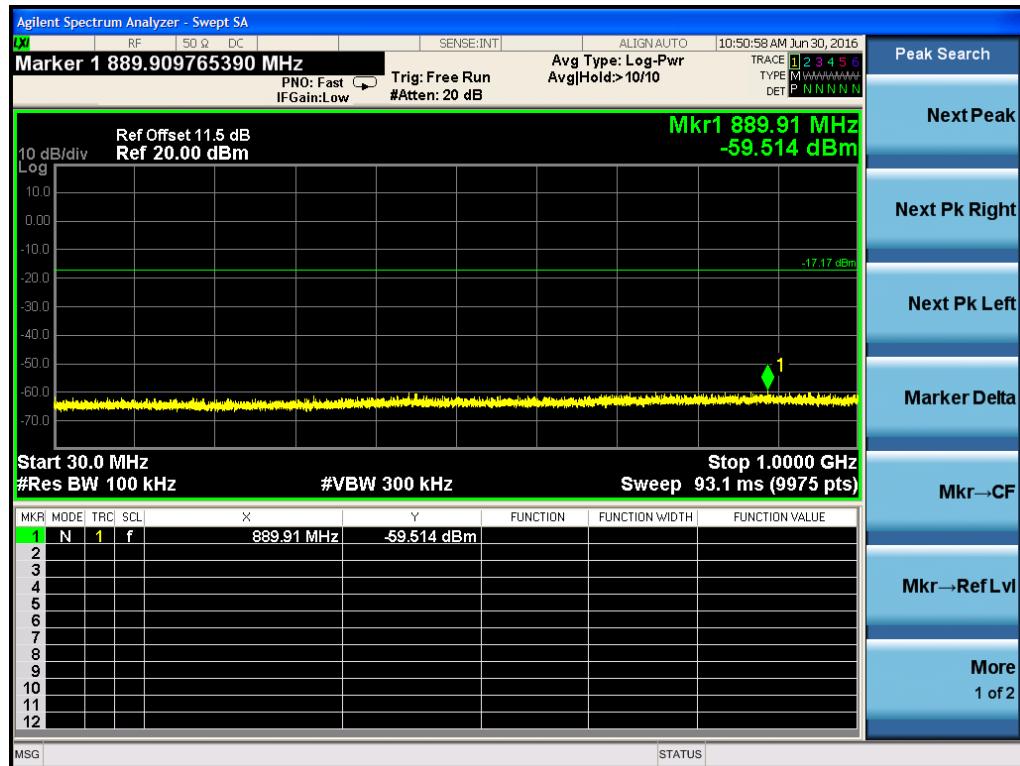
## **Band Edge**



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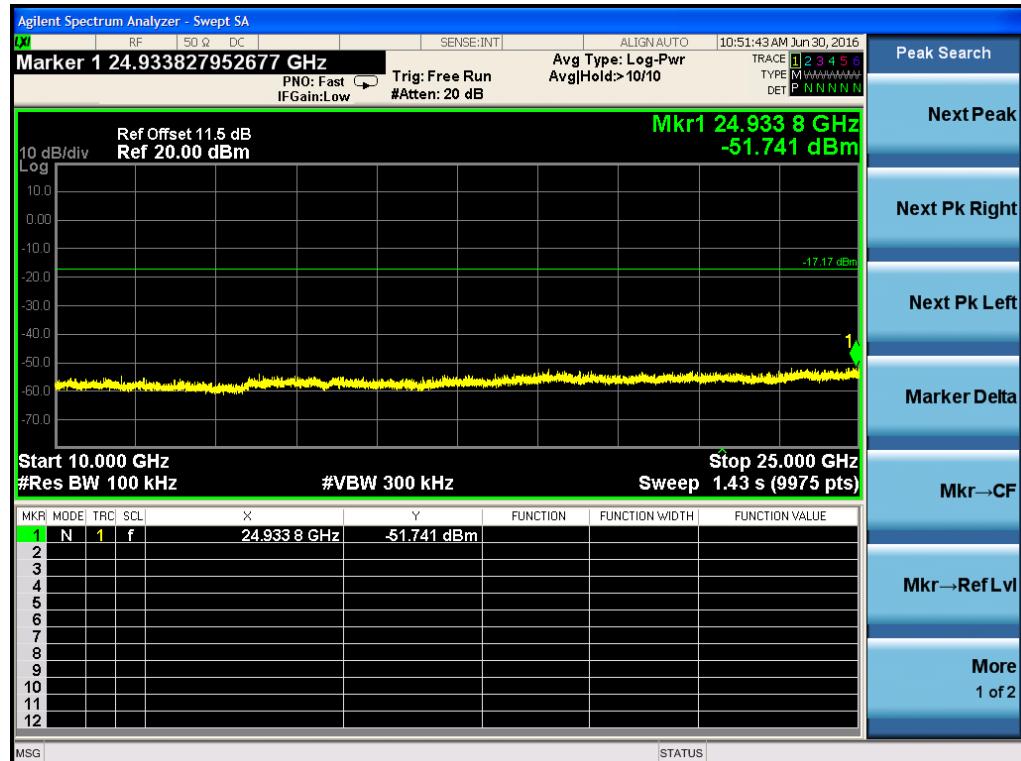
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11n (HT20), ANT 2 Low Channel**



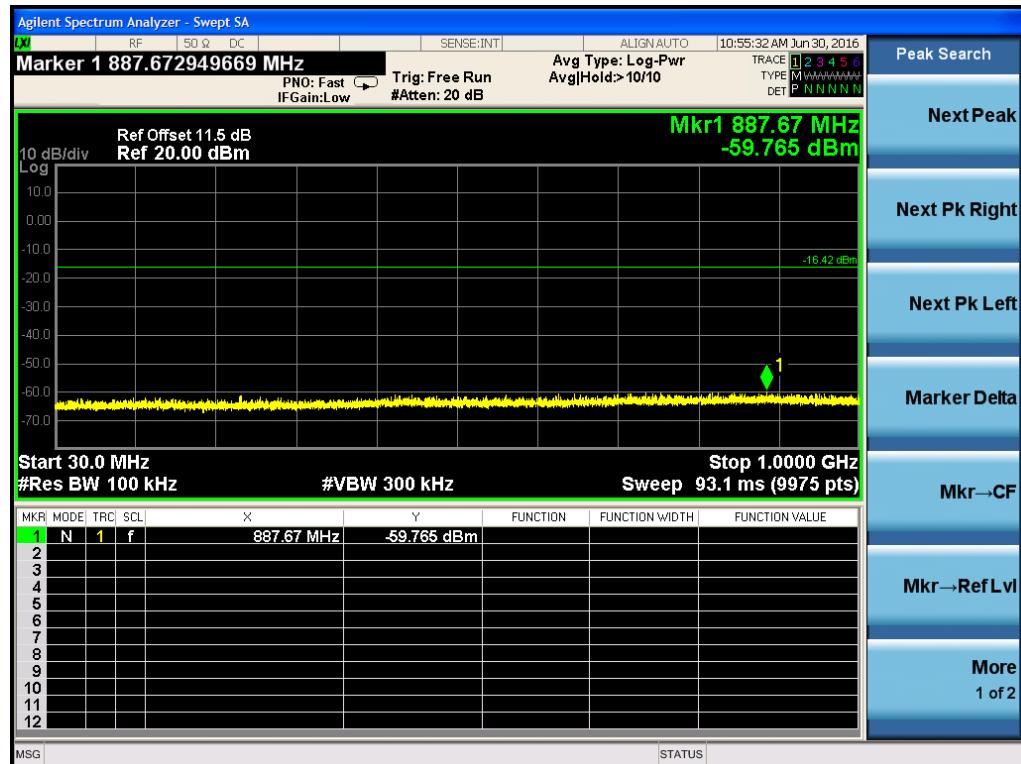
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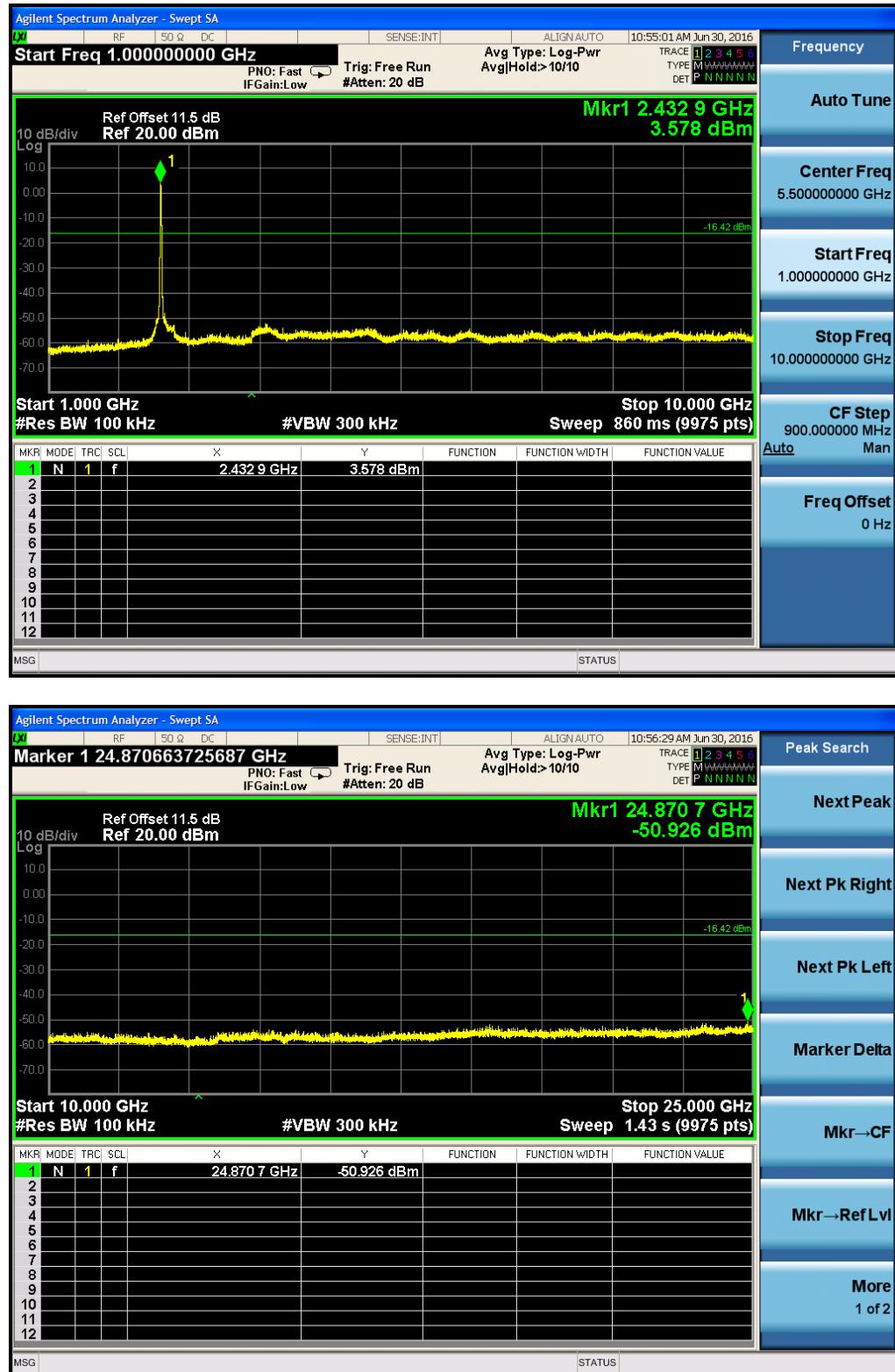
## Middle Channel



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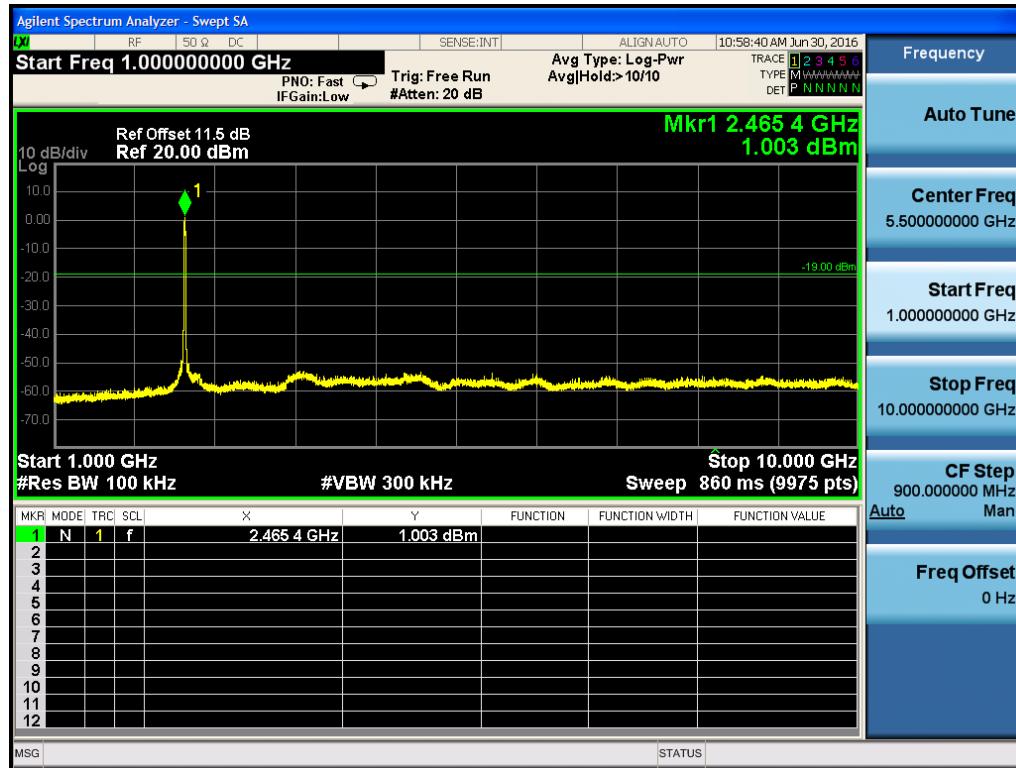
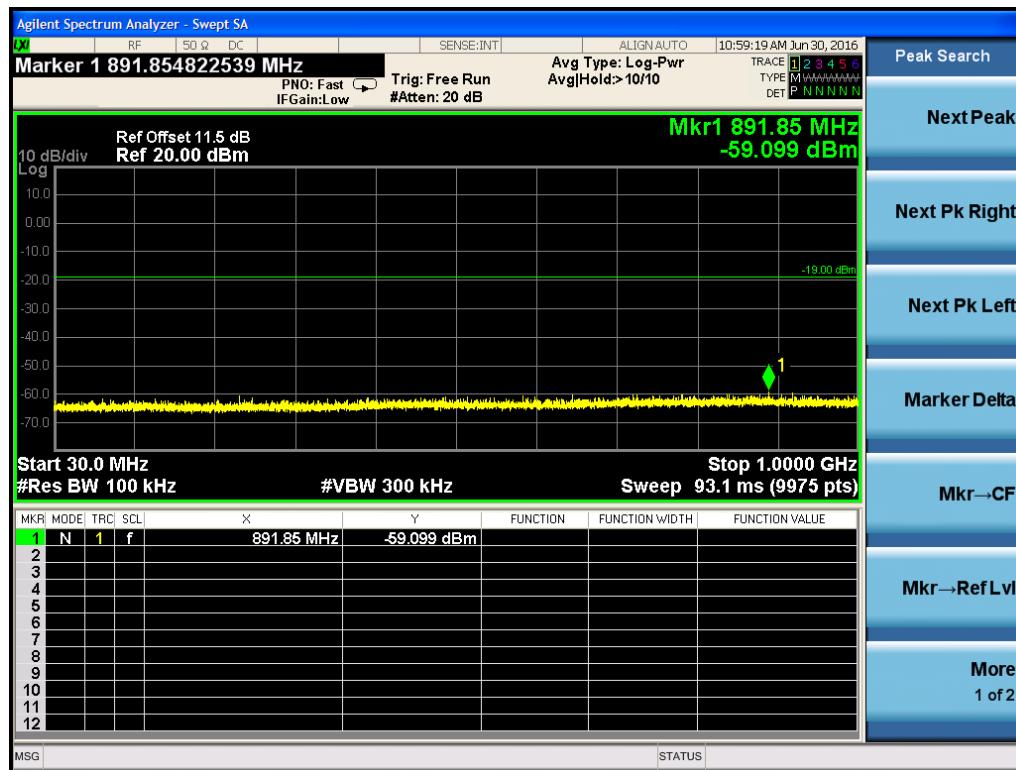


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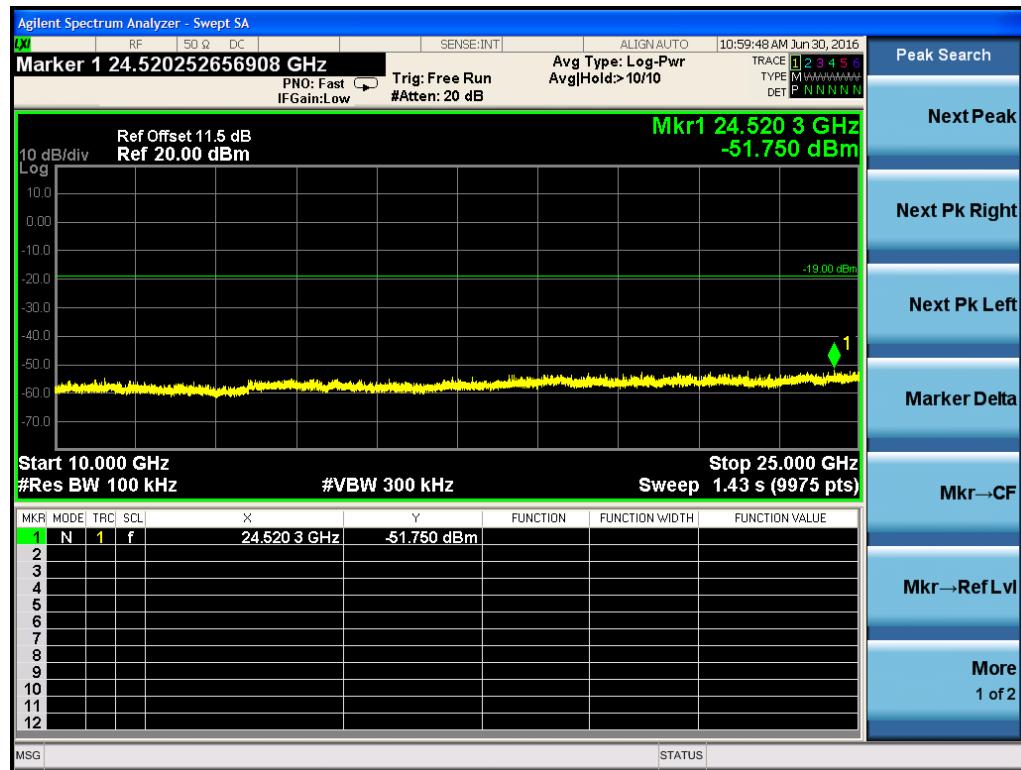
## High Channel



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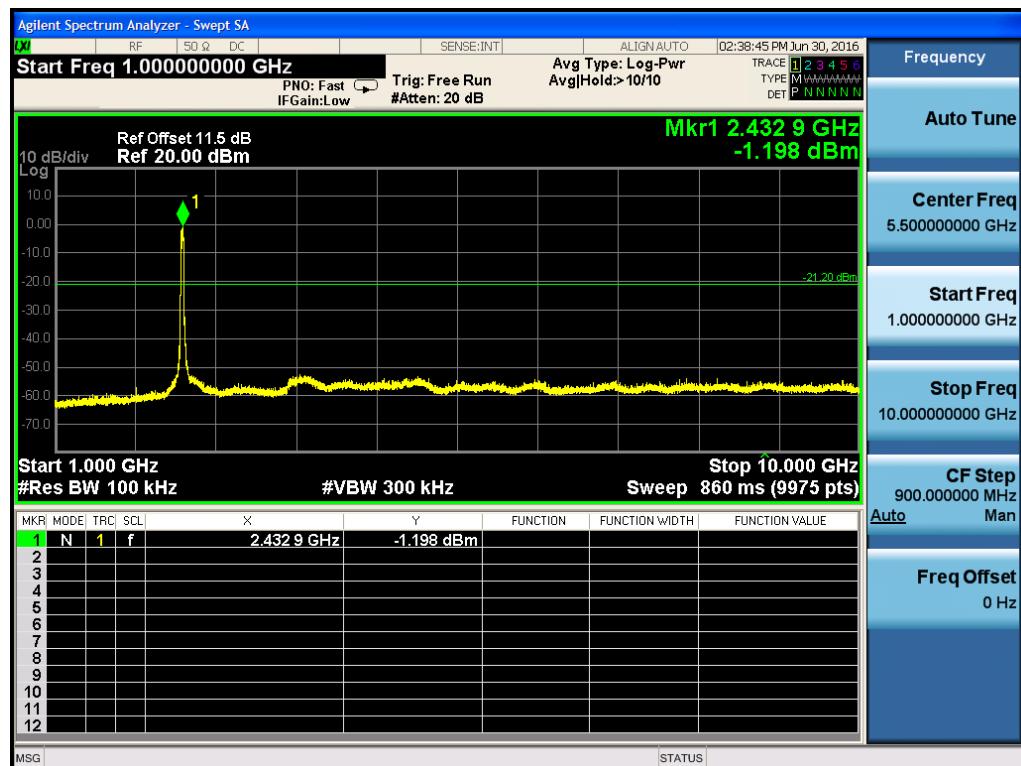
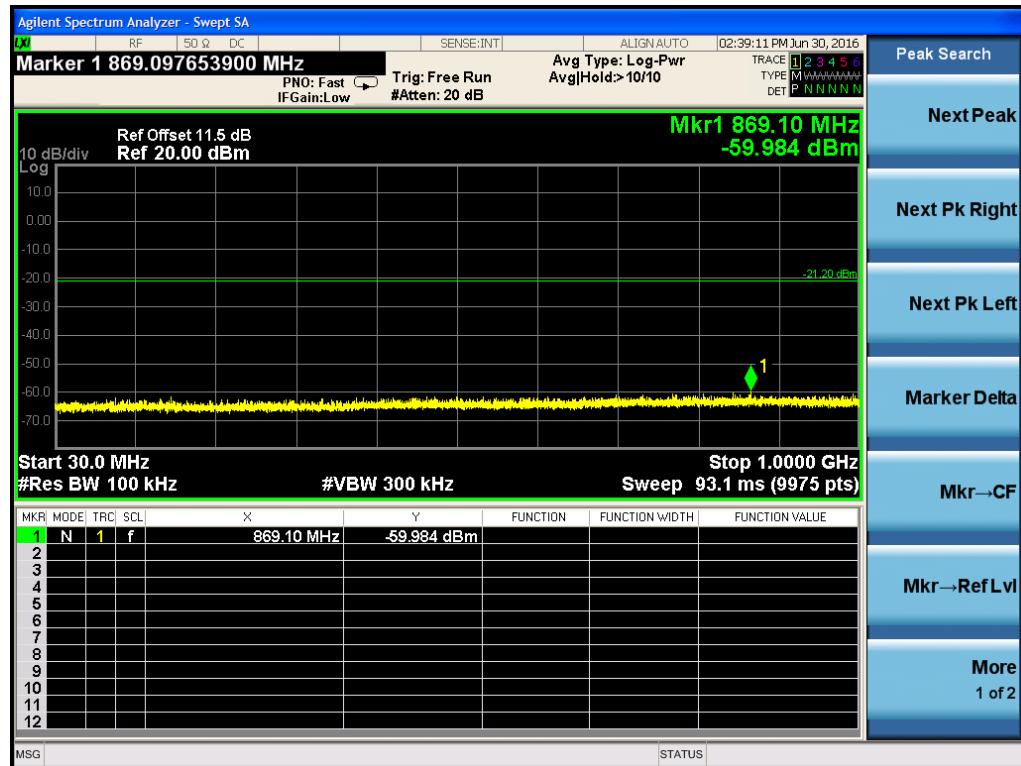
## Band Edge



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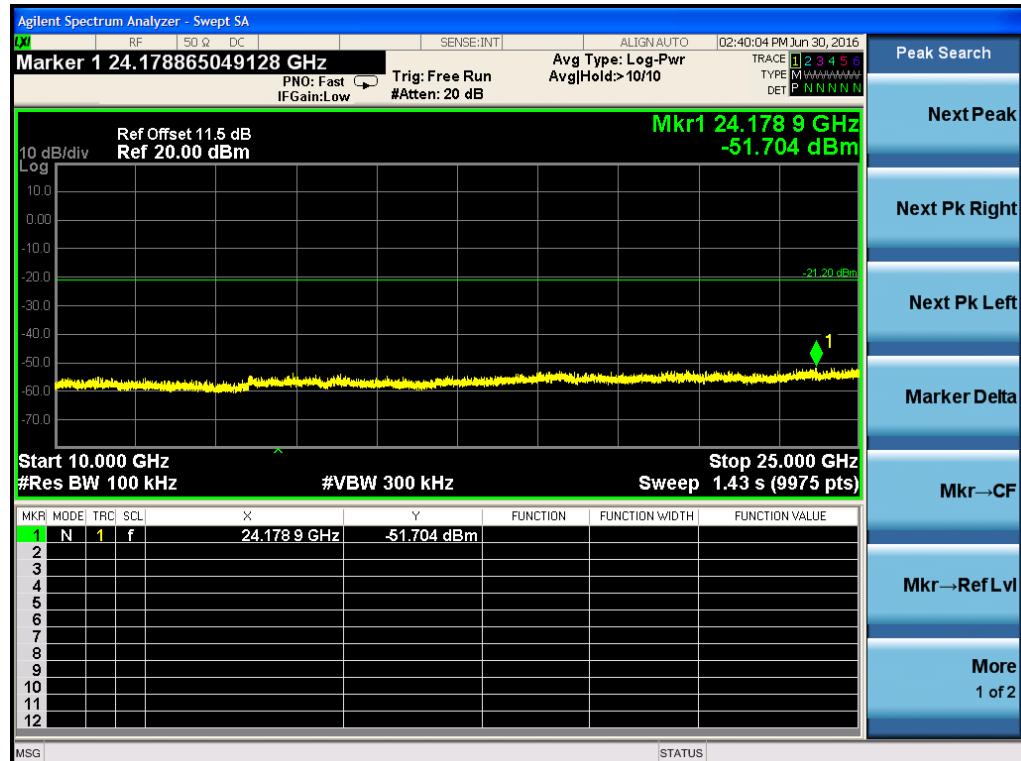
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11n (HT40), ANT 1 Low Channel**



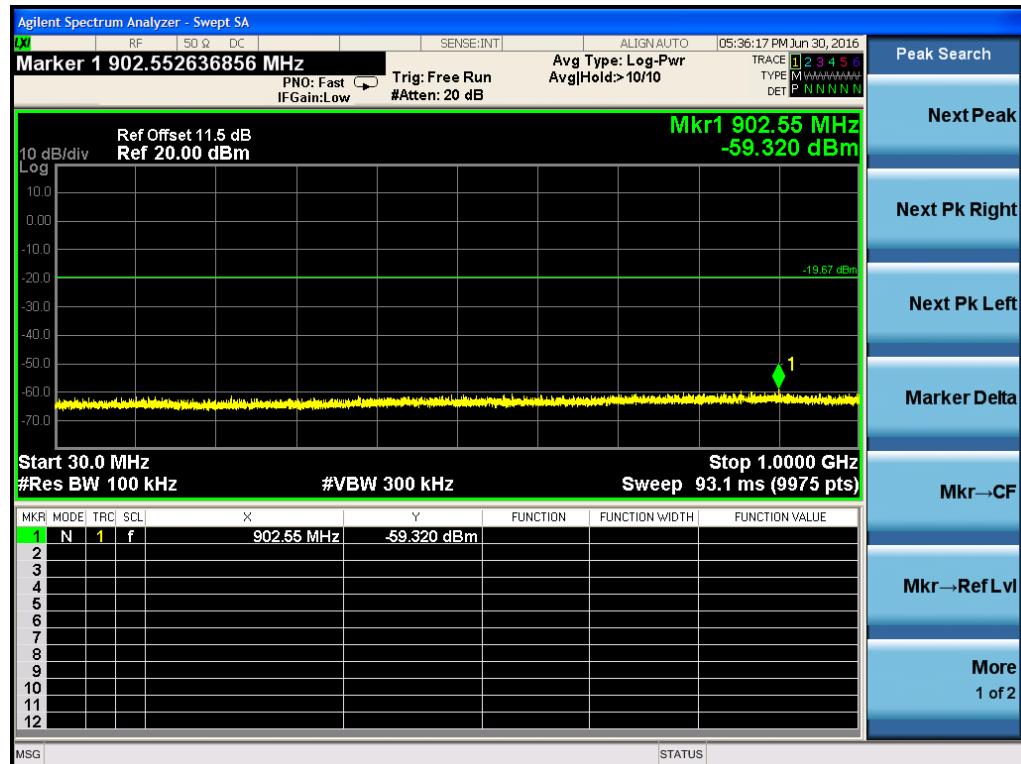
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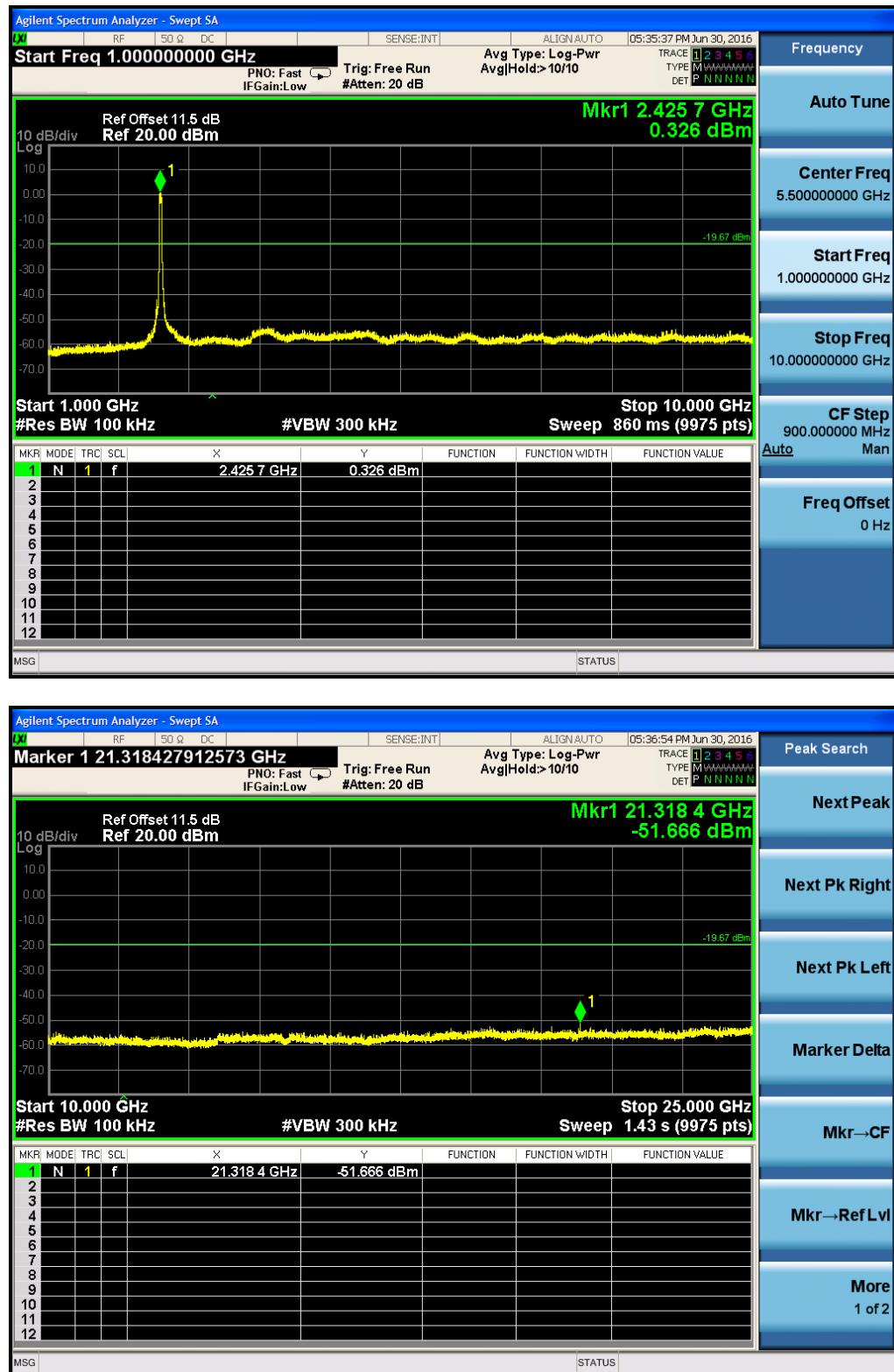
## Middle Channel



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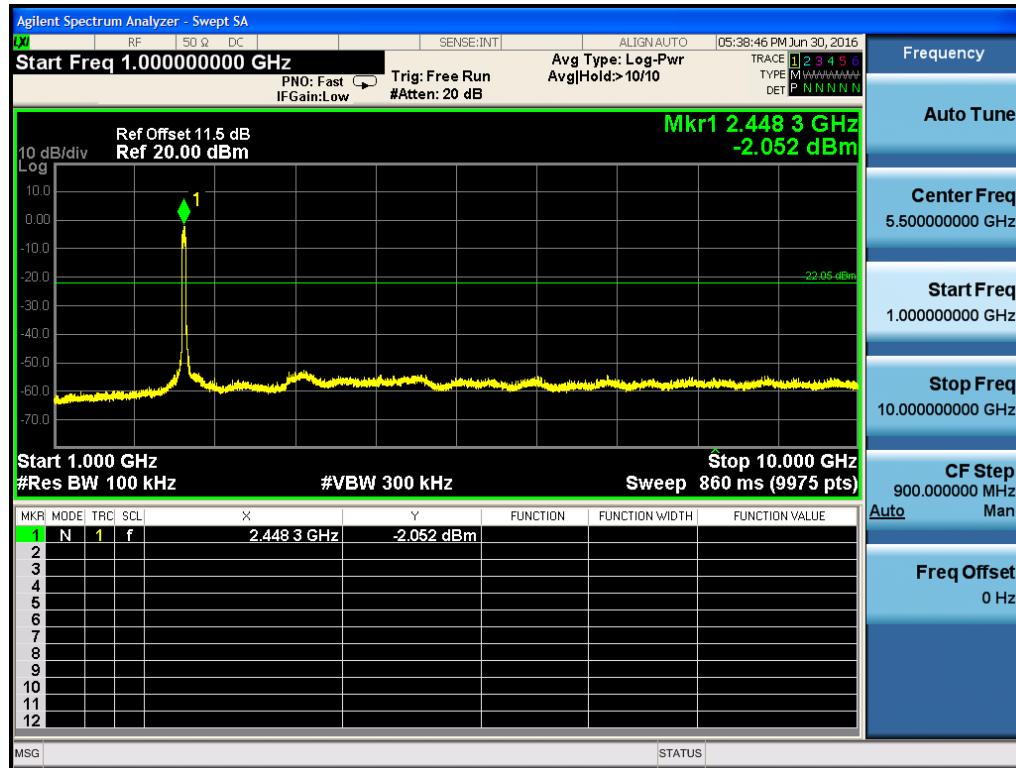
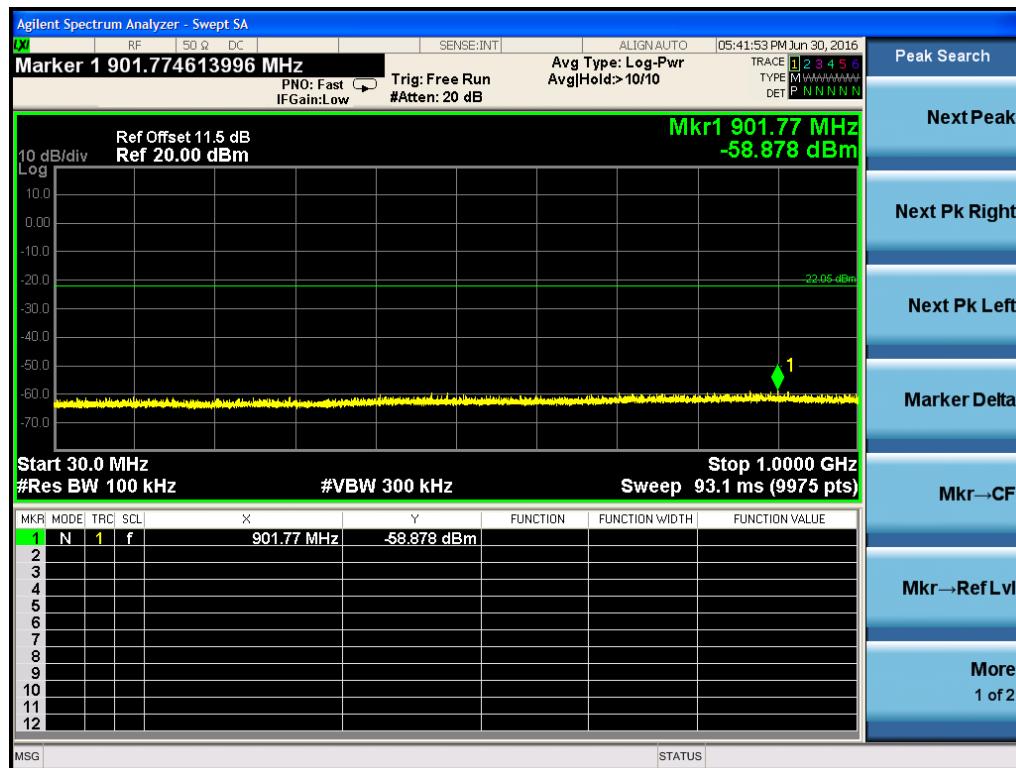


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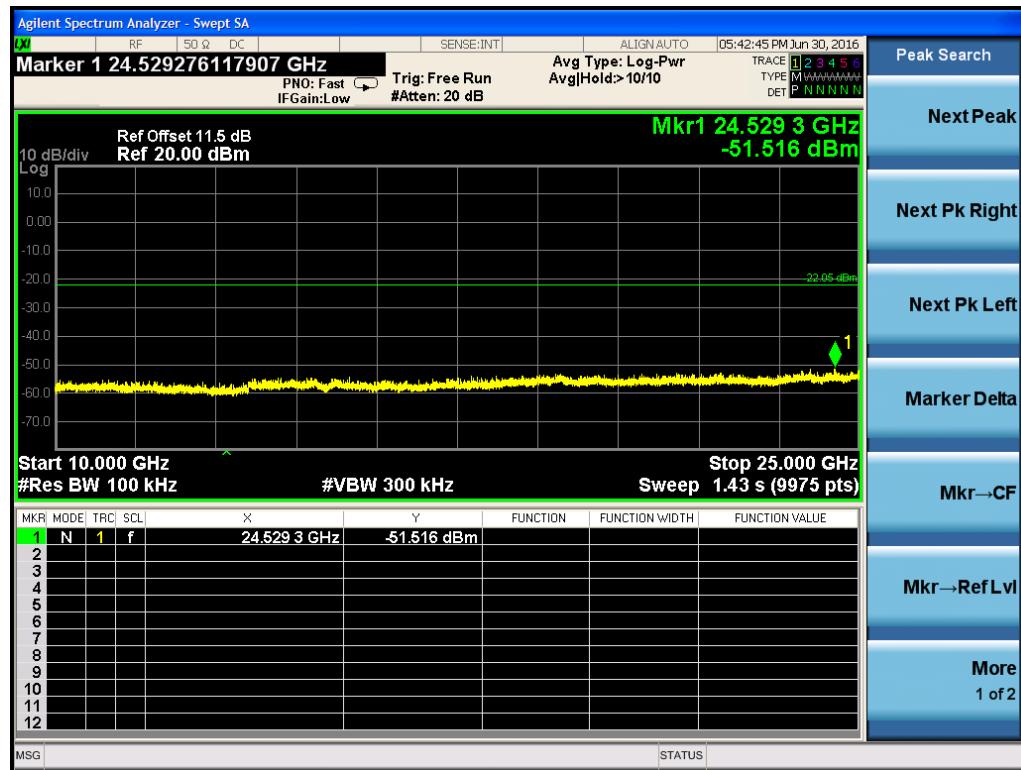
## High Channel



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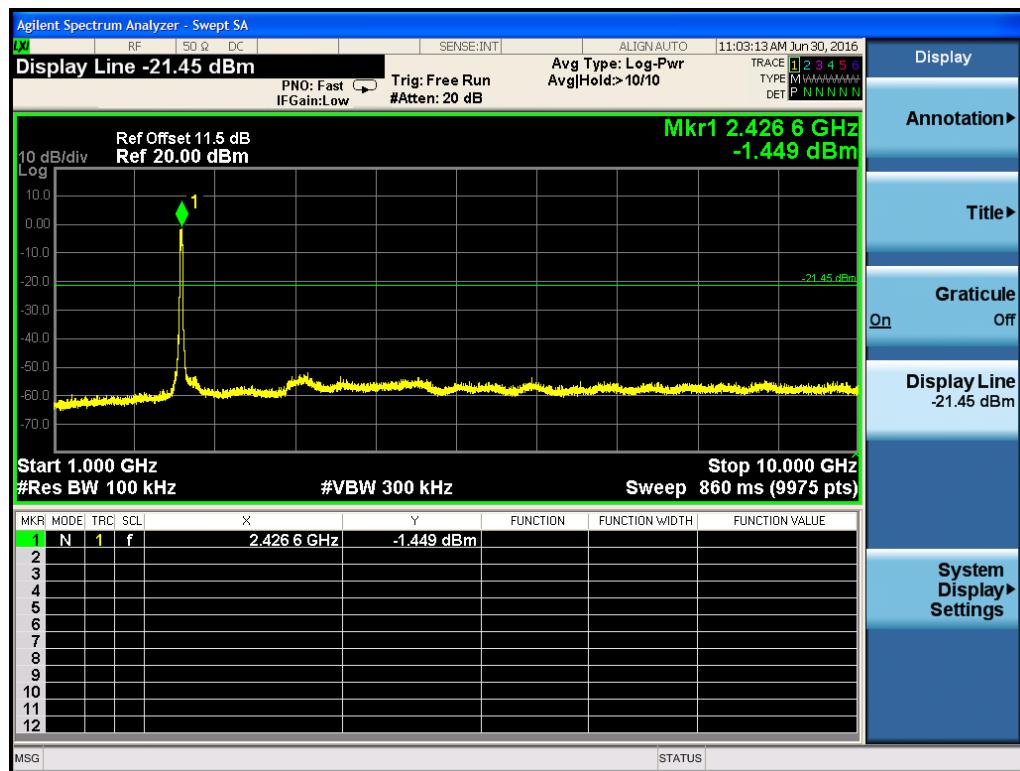
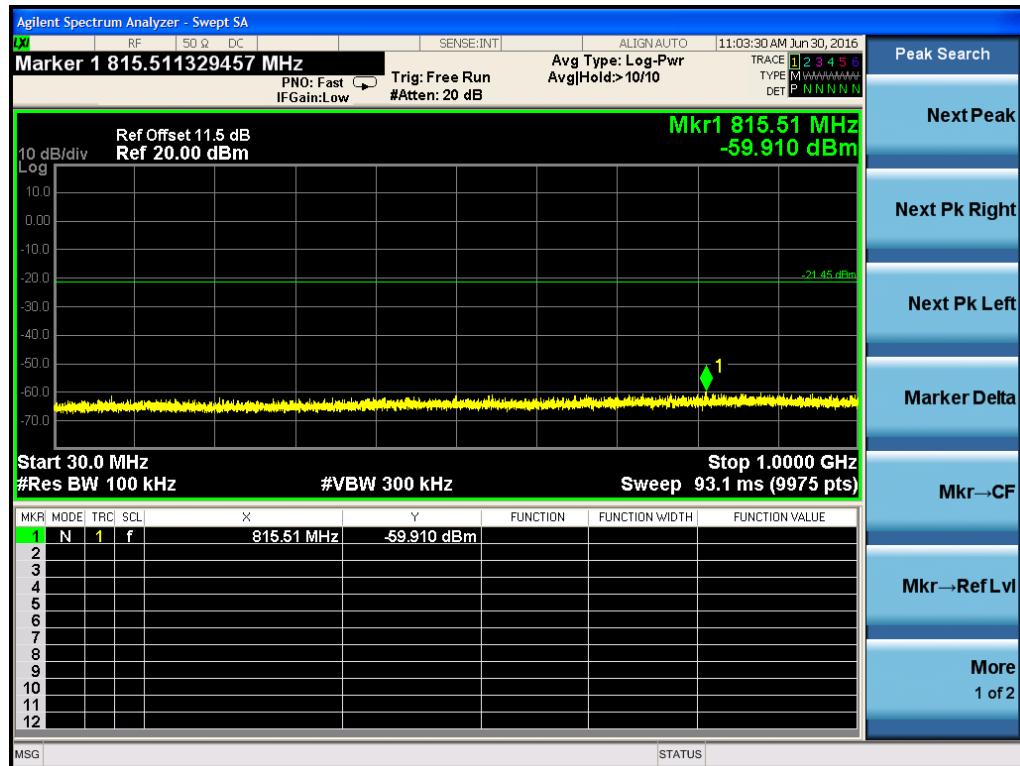
## Band Edge



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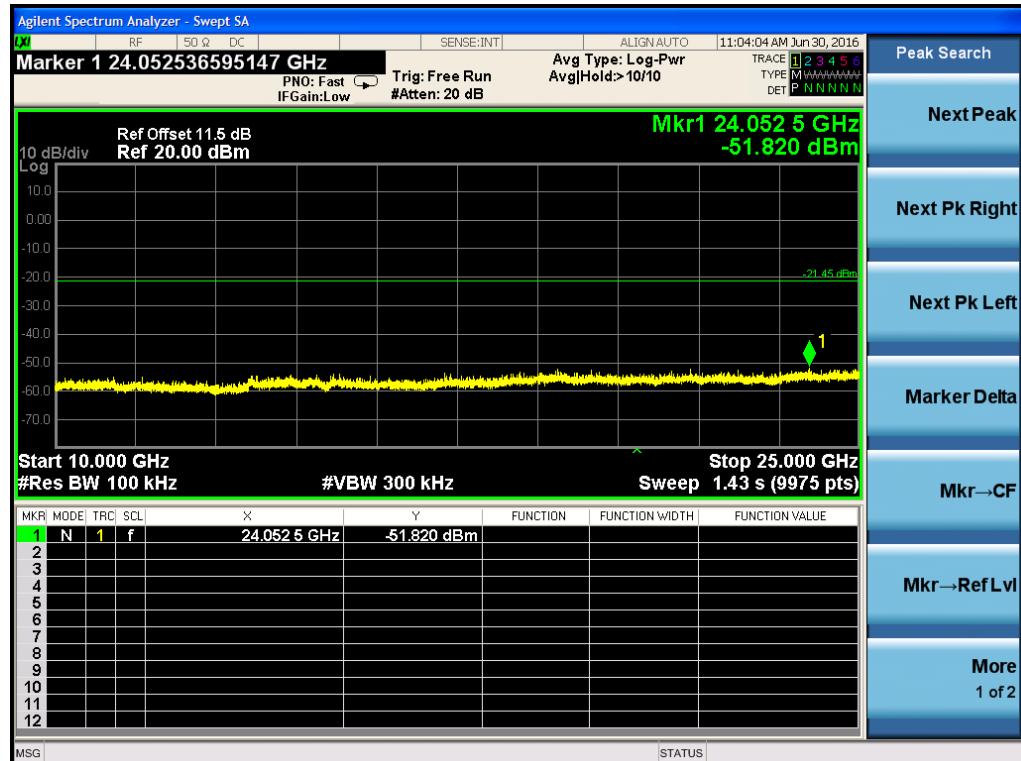
**Test Plot of Conducted spurious emissions measured in 100kHz Bandwidth of 802.11n (HT40), ANT 2 Low Channel**



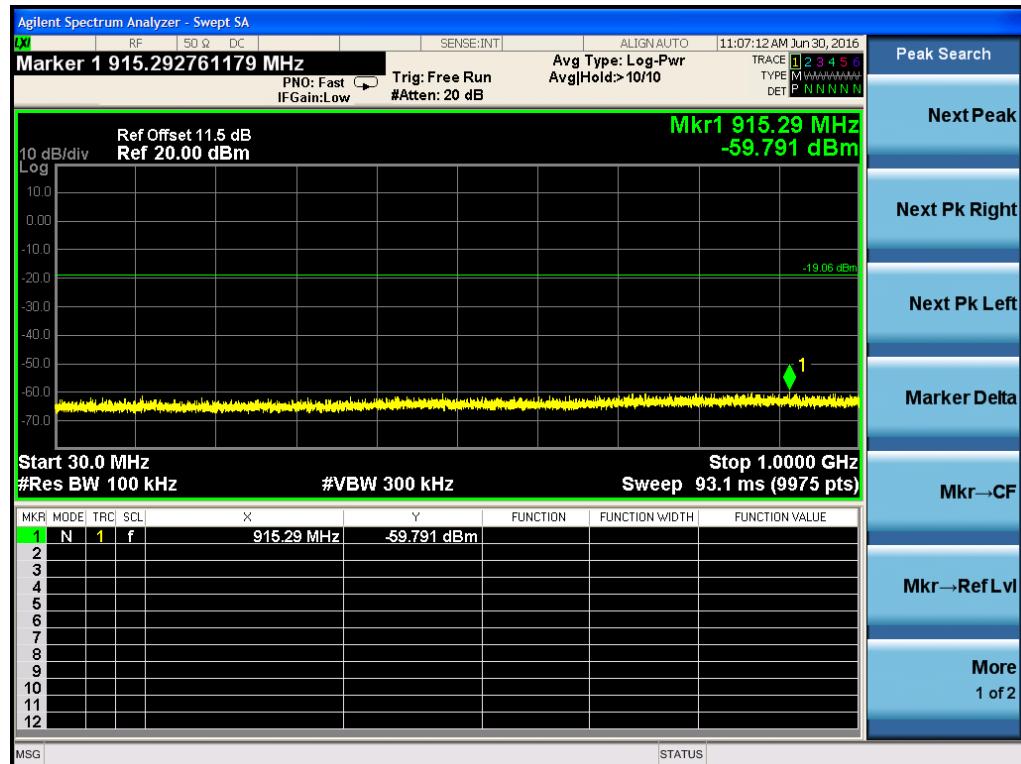
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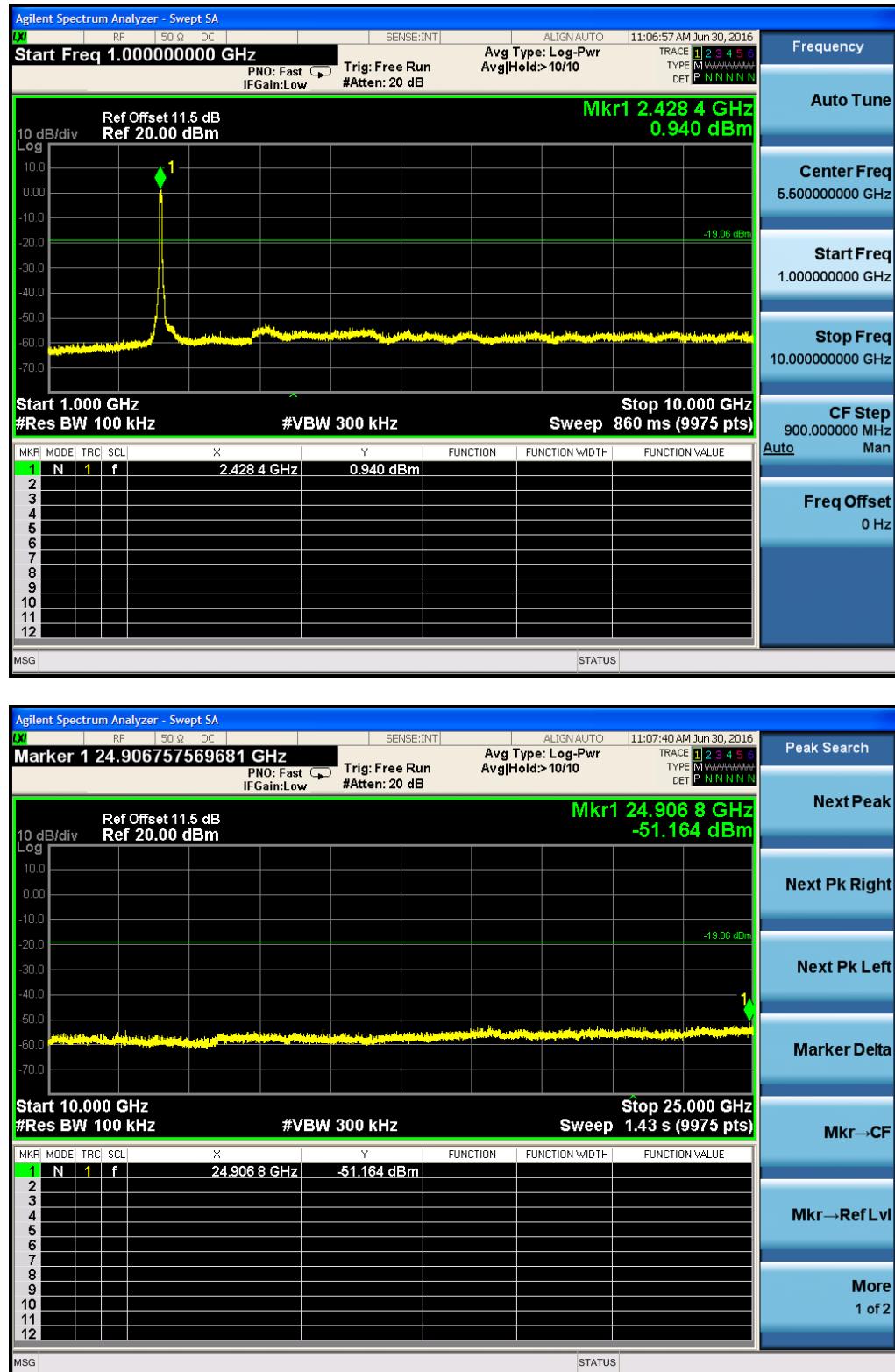
## Middle Channel



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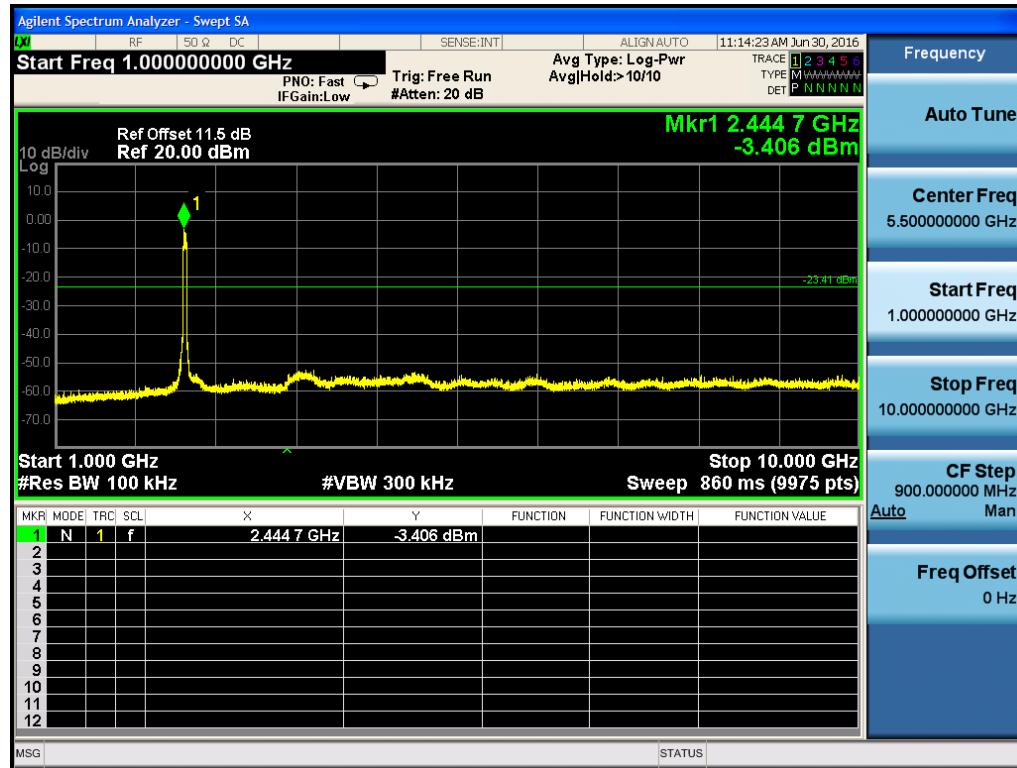
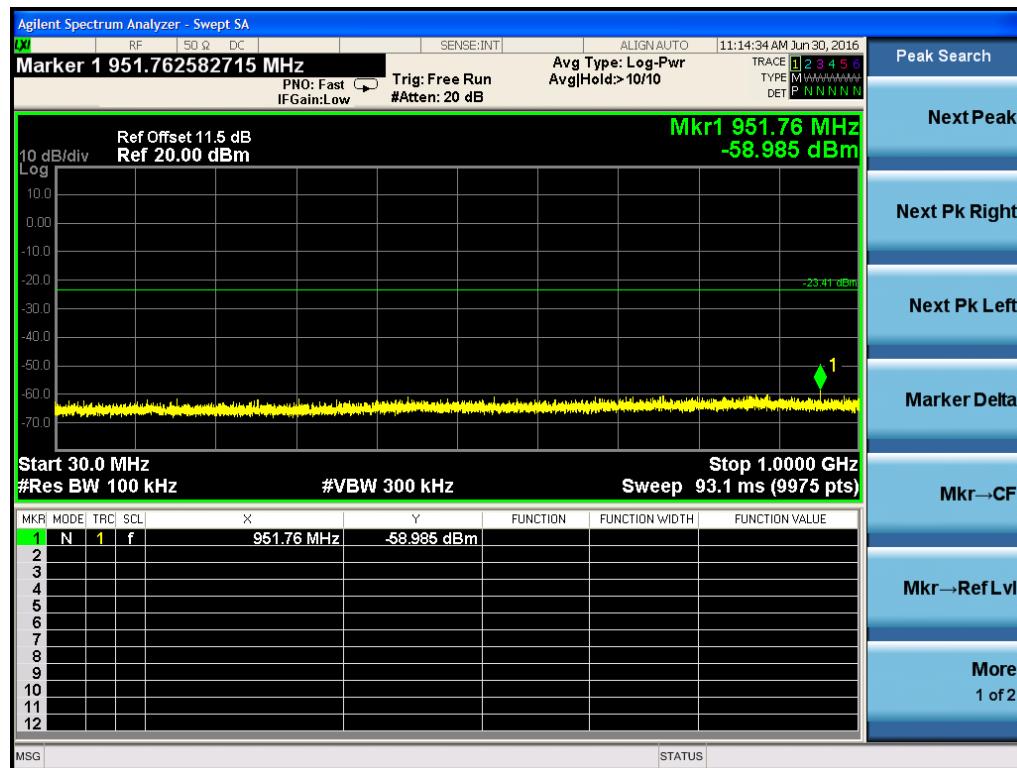


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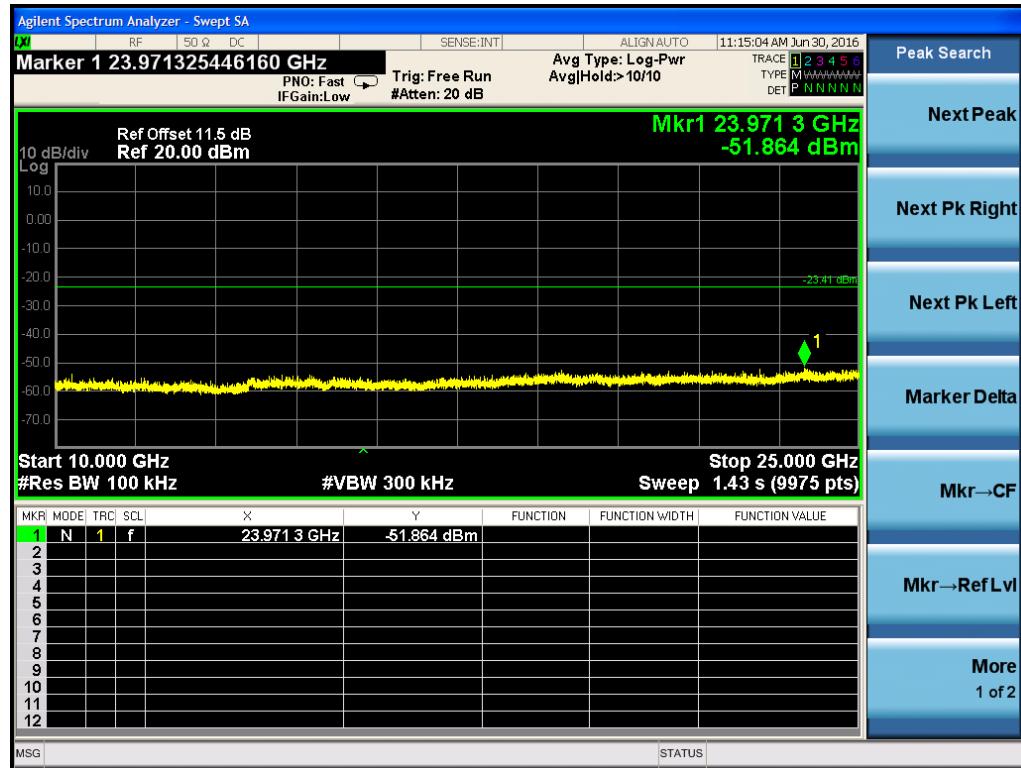
## High Channel



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## Band Edge



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### 5.1.5 Power spectral density

#### RESULT:

**Pass**

Date of testing	:	2016-07-01
Test standard	:	FCC part 15.247(e) RSS-247 clause 5.2(2)
Basic standard	:	ANSI C63.10: 2013 Clause 10 of KDB 558074 v03r03
Limit	:	8dBm/3kHz
Kind of test site	:	Shield room

#### Test setup

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	20.4°C
Relative humidity	:	50.3%
Atmospheric pressure	:	101.3kPa

**Table 14: Test result of power spectral density:**

Mode	Channel (MHz)	Result (dBm/3kHz)		Limit (dBm/3kHz)	Conclusion
		ANT 1	ANT 2		
802.11b	2412	-8.610	-8.902	8	Pass
	2437	-8.758	-8.311	8	Pass
	2462	-8.311	-8.567	8	Pass
802.11g	2412	-12.301	-11.928	8	Pass
	2437	-8.802	-10.374	8	Pass
	2462	-12.453	-12.858	8	Pass
802.11n (HT20)	2412	-11.612	-10.450	8	Pass
	2437	-8.136	-9.068	8	Pass
	2462	-13.961	-12.150	8	Pass
802.11n (HT40)	2422	-15.406	-15.539	8	Pass
	2437	-12.185	-13.013	8	Pass
	2452	-16.149	-16.945	8	Pass

**Prüfbericht - Nr.:** **50050527 009**  
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*Page 69 of 181***5.1.6 Spurious Emission****RESULT:****Pass**

Date of testing	:	2016-07-07
Test standard	:	FCC part 15.247(d) RSS-210 clause 3.3
Basic standard	:	ANSI C63.10: 2013 Clause 11 of KDB 558074 v03r03
Limits	:	FCC part 15.209(a)
Kind of test site	:	3m Semi-Anechoic Chamber & Anechoic Chamber

**Test setup**

Test Channel	:	Low/ Middle/ High
Operation mode	:	A.1
Ambient temperature	:	21.3°C
Relative humidity	:	60%
Atmospheric pressure	:	101kPa

The frequency range of testing is 30MHz to 40GHz, and no any emissions were found from 18GHz to 40GHz, hence the radiated emission from 18GHz to 40GHz were not recorded, and for frequency range 30 to 1000MHz, only the worst case of 802.11b 2437MHz were recorded.

Testing was carried out on the antenna which with the higher output power.

For details refer to following test plot.

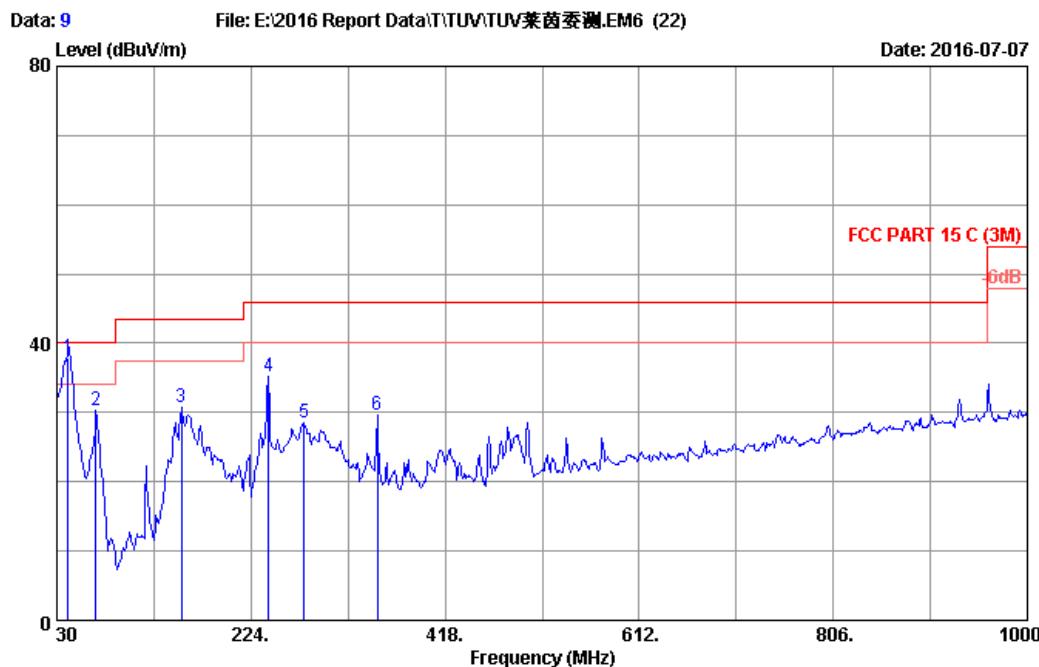
# Prüfbericht - Nr.: 50050527 009

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Site no. : 3m Chamber Data no. : 9  
Dis. / Ant. : 3m 2016 9168-493 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 C (3M)  
Env. / Ins. : 21.3°C/60% Engineer : Frank  
EUT : 11.6'' windows tablet M/N: NS-P11W7100  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	41.343	13.91	0.79	23.29	37.99	40.00	2.01	QP
2	68.800	12.93	0.99	44.60	30.21	40.00	9.79	QP
3	154.160	13.36	1.62	43.79	30.76	43.50	12.74	QP
4	241.460	12.35	2.13	48.48	35.31	46.00	10.69	QP
5	277.350	13.49	2.27	40.36	28.62	46.00	17.38	QP
6	350.100	15.21	2.64	39.37	29.61	46.00	16.39	QP

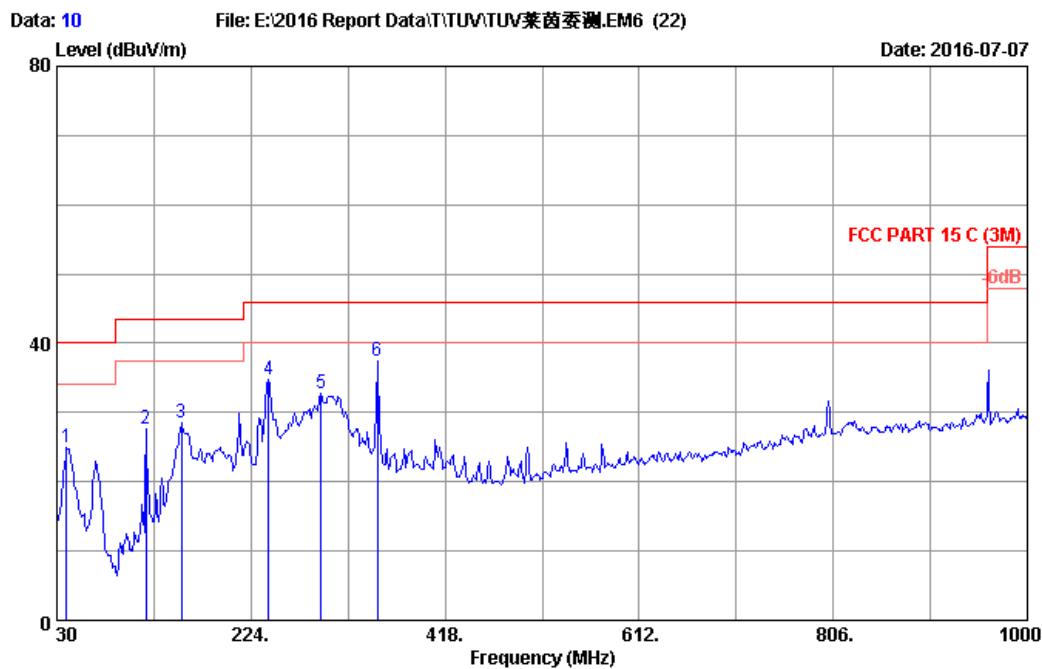
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 10  
Dis. / Ant. : 3m 2016 9168-493 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15 C (3M)  
Env. / Ins. : 21.3°C/60% Engineer : Frank  
EUT : 11.6'' windows tablet M/N: NS-P11W7100  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	39.700	13.80	0.77	10.31	24.88	40.00	15.12	QP
2	119.240	11.00	1.36	15.27	27.63	43.50	15.87	QP
3	154.160	13.36	1.62	13.52	28.50	43.50	15.00	QP
4	241.460	12.35	2.13	20.26	34.74	46.00	11.26	QP
5	293.840	13.88	2.34	16.44	32.66	46.00	13.34	QP
6	350.100	15.21	2.64	19.63	37.48	46.00	8.52	QP

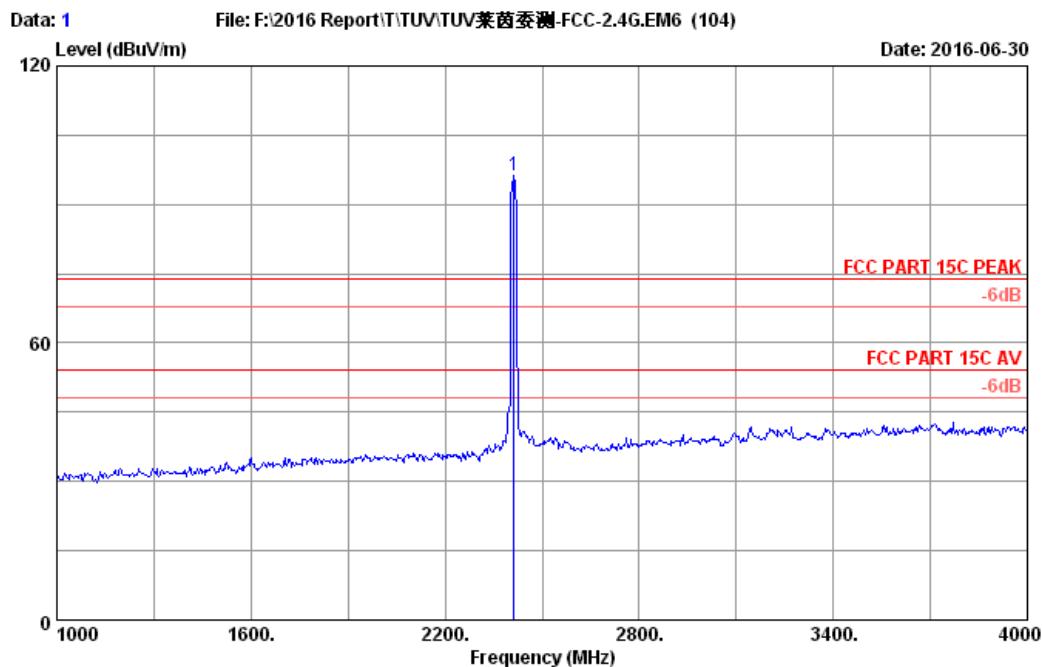
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 1  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2412MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.29	8.35	36.39	96.13	96.38	74.00	-22.38 Peak

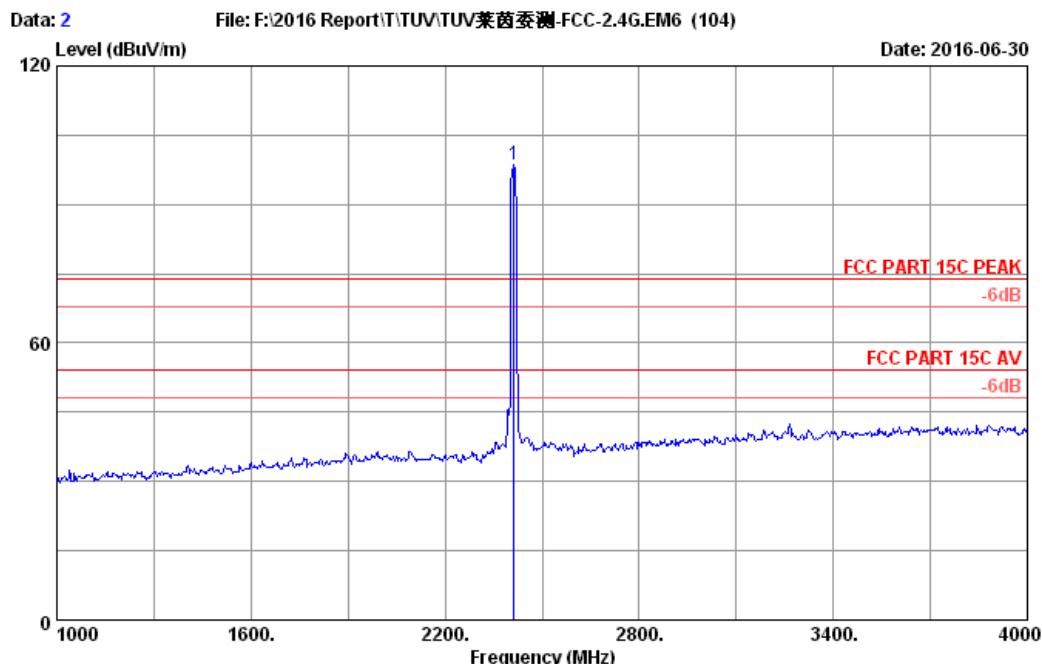
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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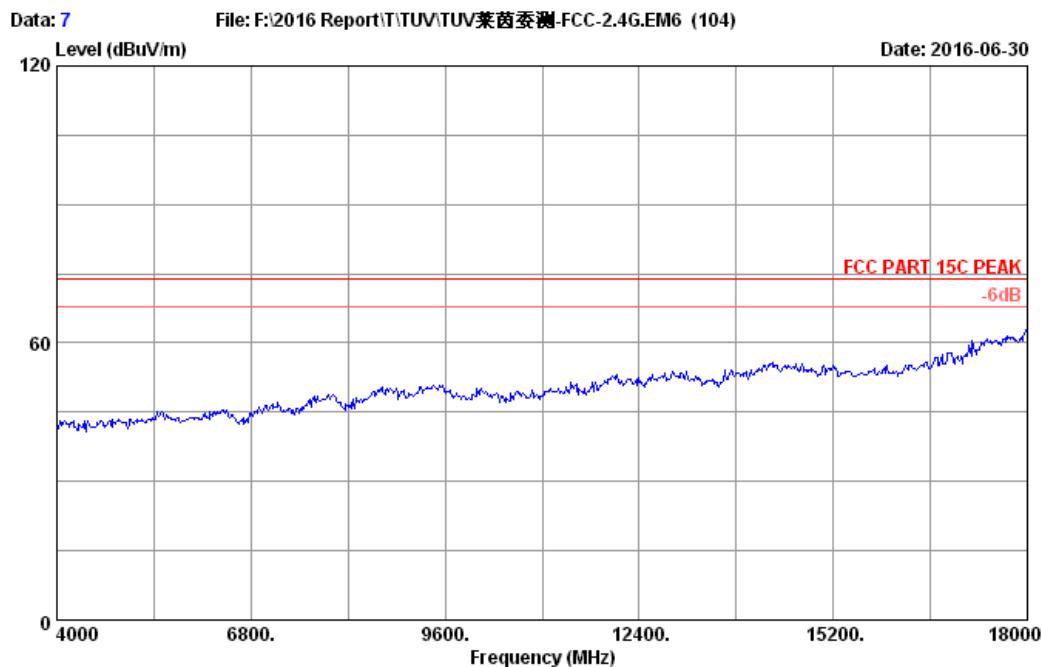
Site no. : 3m Chamber Data no. : 2  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2412MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2412.000	28.29	8.35	36.39	98.26	98.51	74.00	-24.51 Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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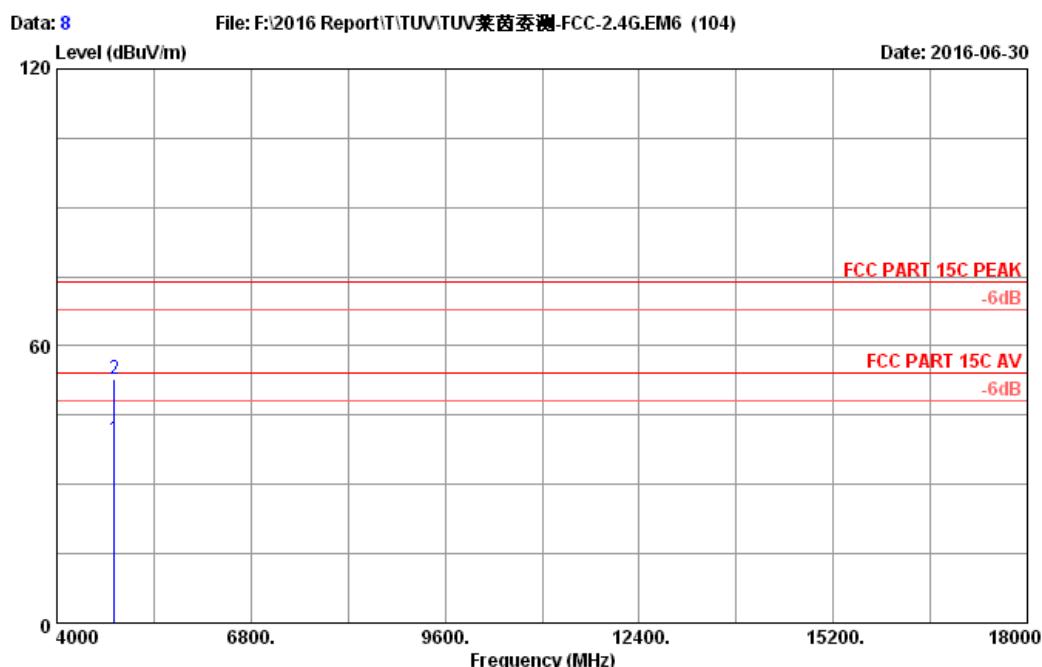
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Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2412MHz Tx Mode  
M/N: NS-P11W7100

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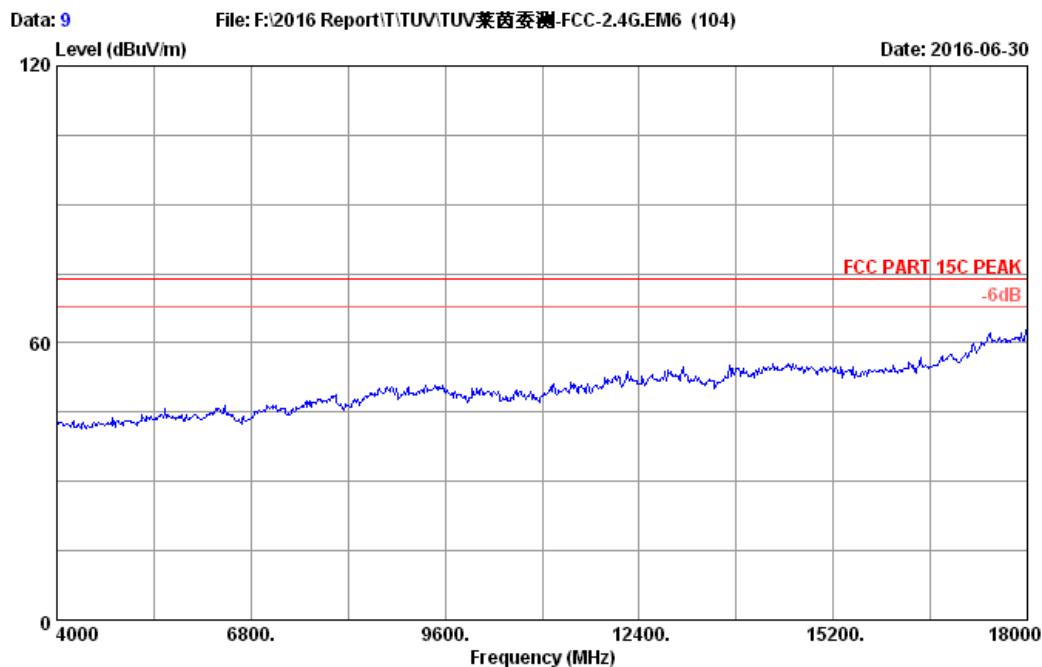
Site no. : 3m Chamber Data no. : 8  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2412MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	33.15	11.77	35.68	30.52	39.76	54.00	14.24	Average
2	4824.000	33.15	11.77	35.68	43.74	52.98	74.00	21.02	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official limit are not reported.

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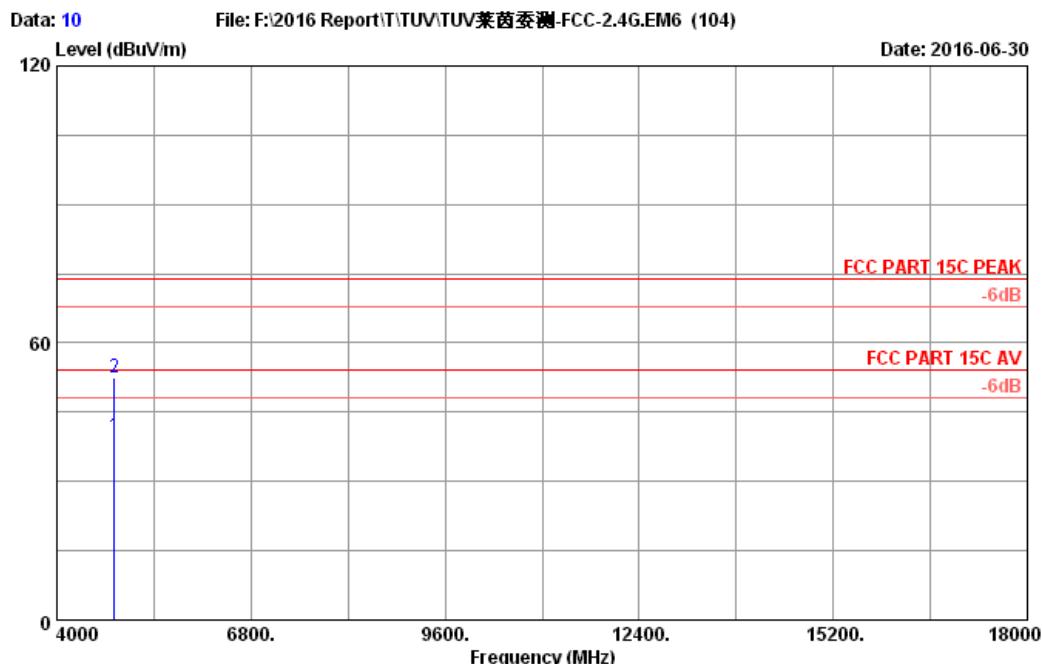
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Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2412MHz Tx Mode  
M/N: NS-P11W7100

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Site no. : 3m Chamber Data no. : 10  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2412MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4824.000	33.15	11.77	35.68	30.38	39.62	54.00	14.38	Average
2	4824.000	33.15	11.77	35.68	43.33	52.57	74.00	21.43	Peak

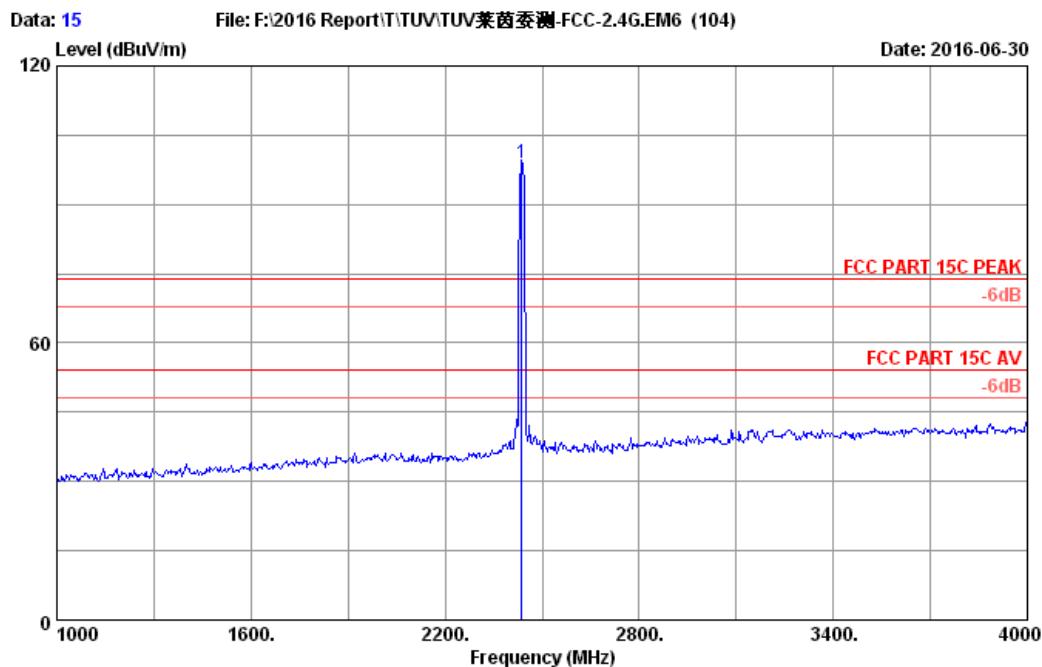
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 15  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2437MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.32	8.38	36.38	98.59	98.91	74.00	-24.91 Peak

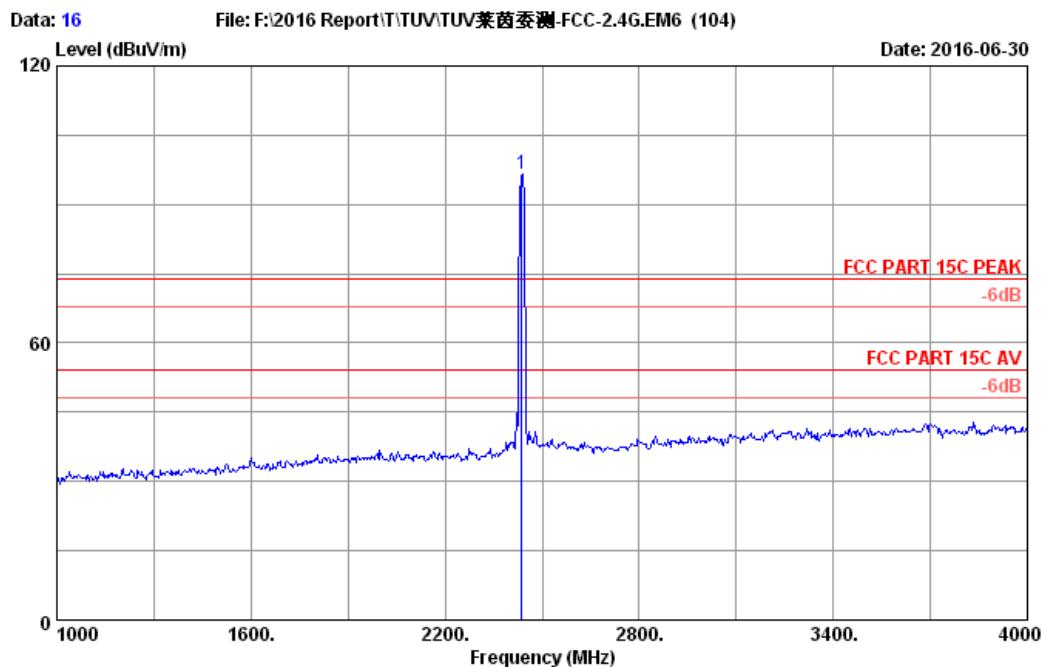
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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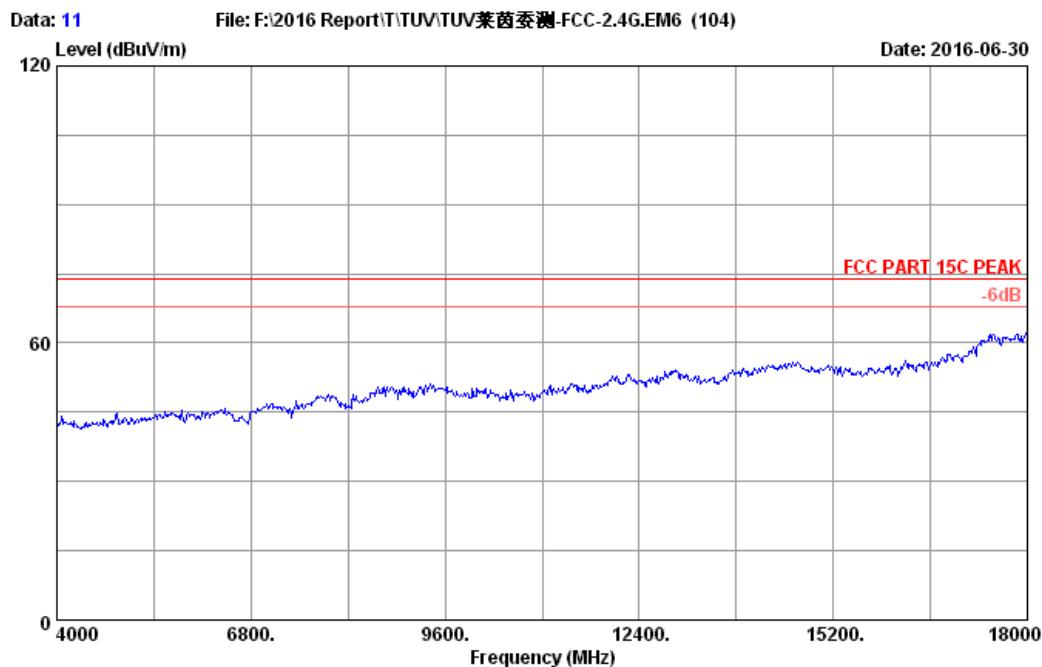
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Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2437MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2437.000	28.32	8.38	36.38	96.24	96.56	74.00	-22.56 Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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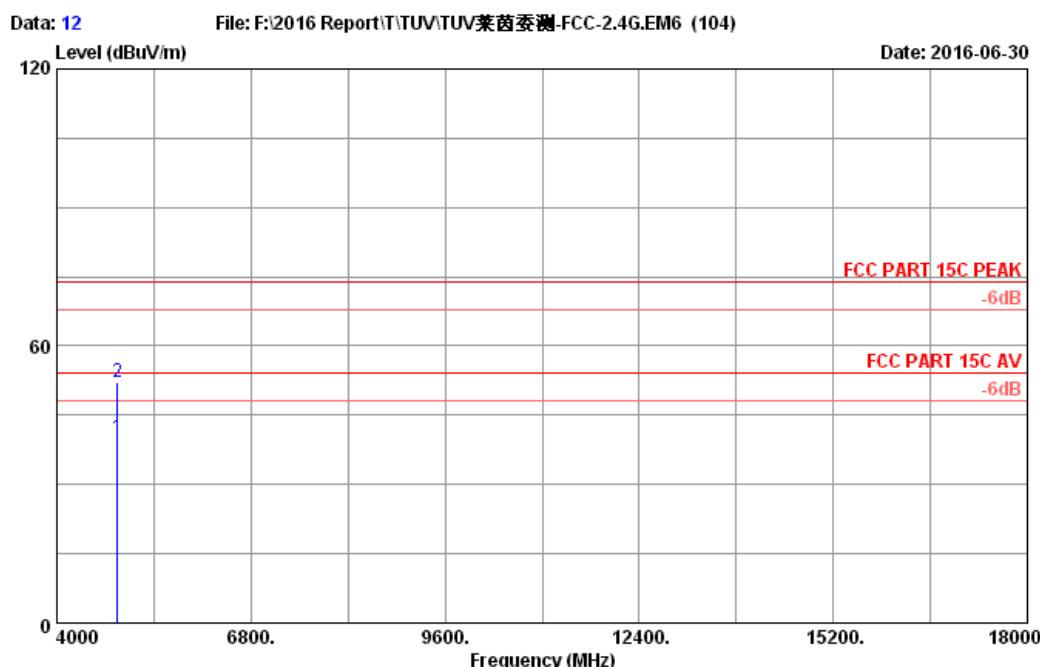
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Dis. / Ant.	:	3m 2015 3115-4877	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	23.5°C/52.4%		
Engineer	:	zack_zhu		
EUT	:	11.6'' windows tablet		
Power rating	:	DC 5V From Adapter Input AC 120V/60Hz		
Test Mode	:	IEEE802.11b 2437MHz Tx Mode		
		M/N: NS-P11W7100		

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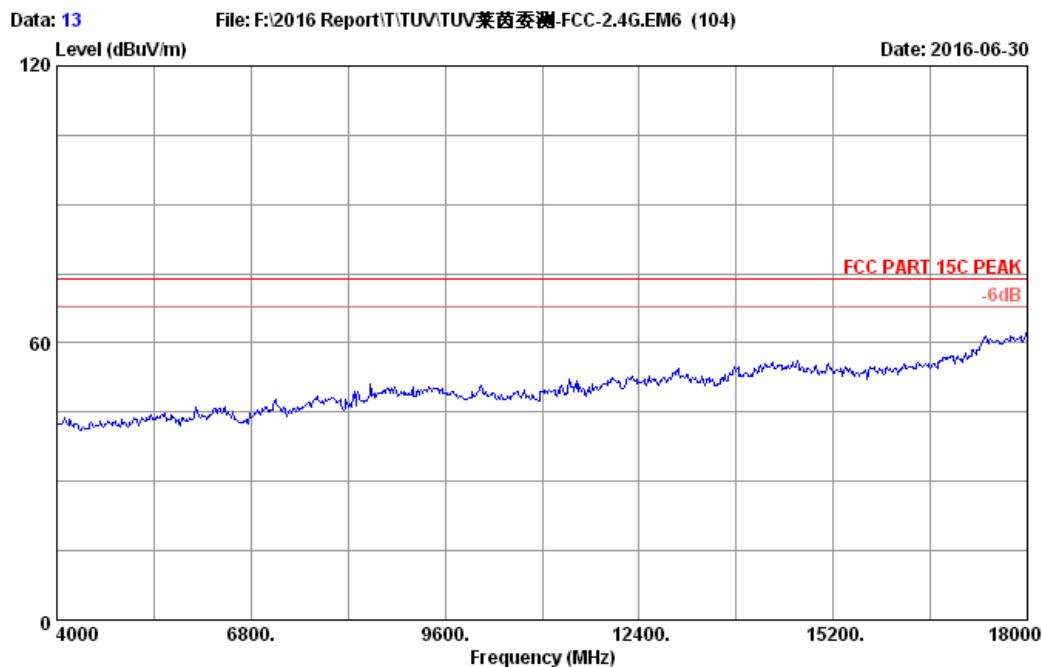
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Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2437MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable (dB)	AMP (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	33.25	11.80	35.69	30.75	40.11	54.00	13.89	Average
2	4874.000	33.25	11.80	35.69	42.85	52.21	74.00	21.79	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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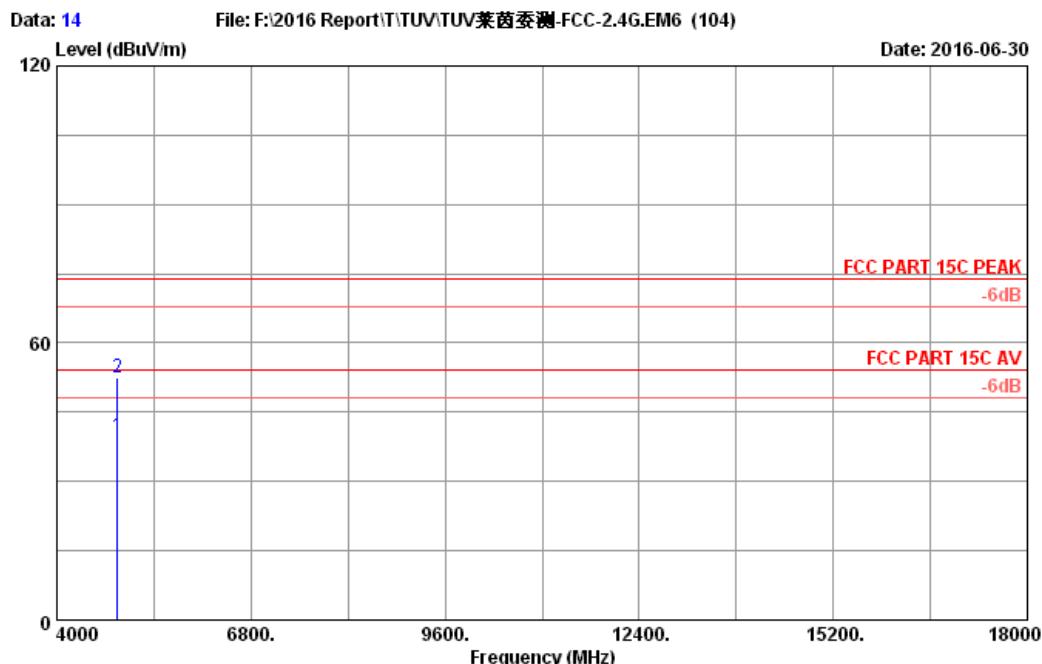
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Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2437MHz Tx Mode  
M/N: NS-P11W7100

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Site no. : 3m Chamber Data no. : 14  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2437MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4874.000	33.25	11.80	35.69	30.52	39.88	54.00	14.12	Average
2	4874.000	33.25	11.80	35.69	43.21	52.57	74.00	21.43	Peak

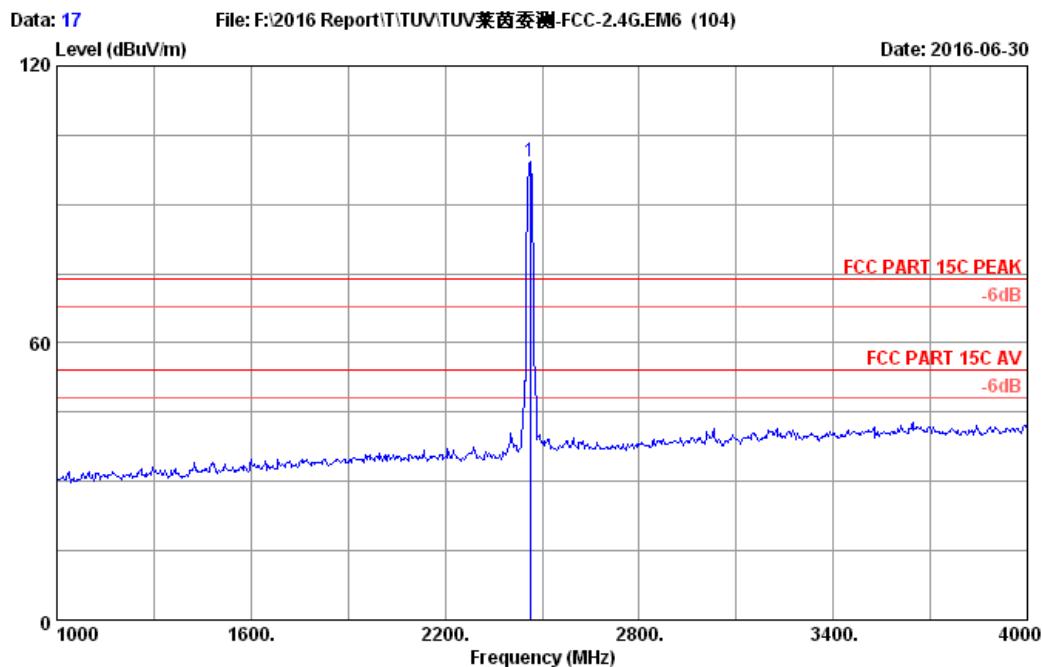
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 3m Chamber Data no. : 17  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2462MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.35	8.40	36.38	98.88	99.25	74.00	-25.25 Peak

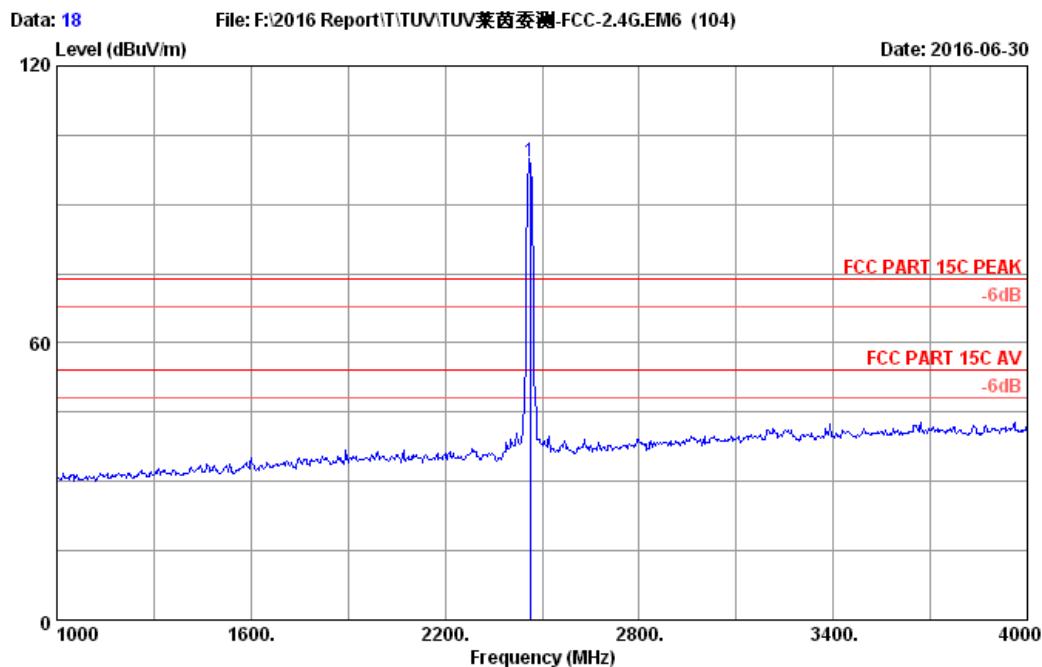
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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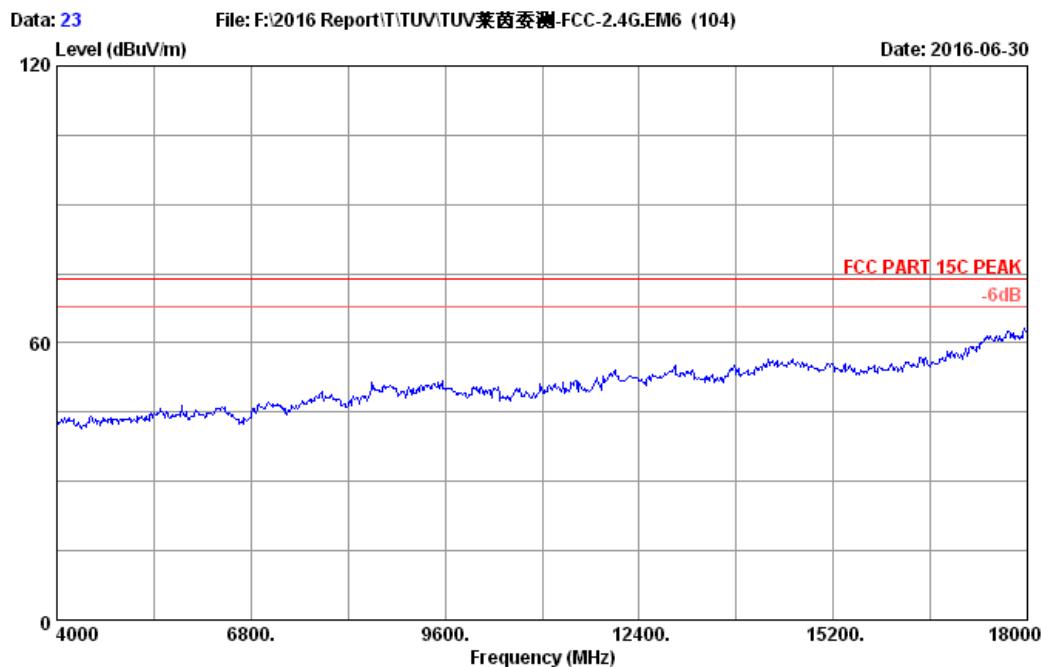
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Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2462MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.35	8.40	36.38	98.86	99.23	74.00	-25.23 Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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No.6 Ke Feng Road,Block 52,  
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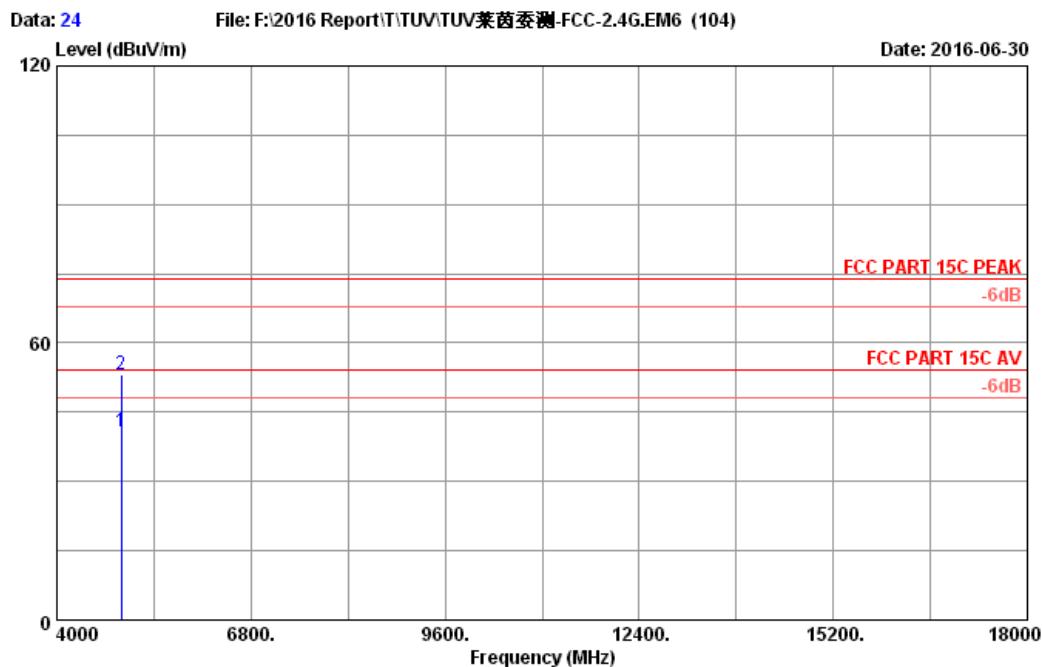
Site no. : 3m Chamber Data no. : 23  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2462MHz Tx Mode  
M/N: NS-P11W7100

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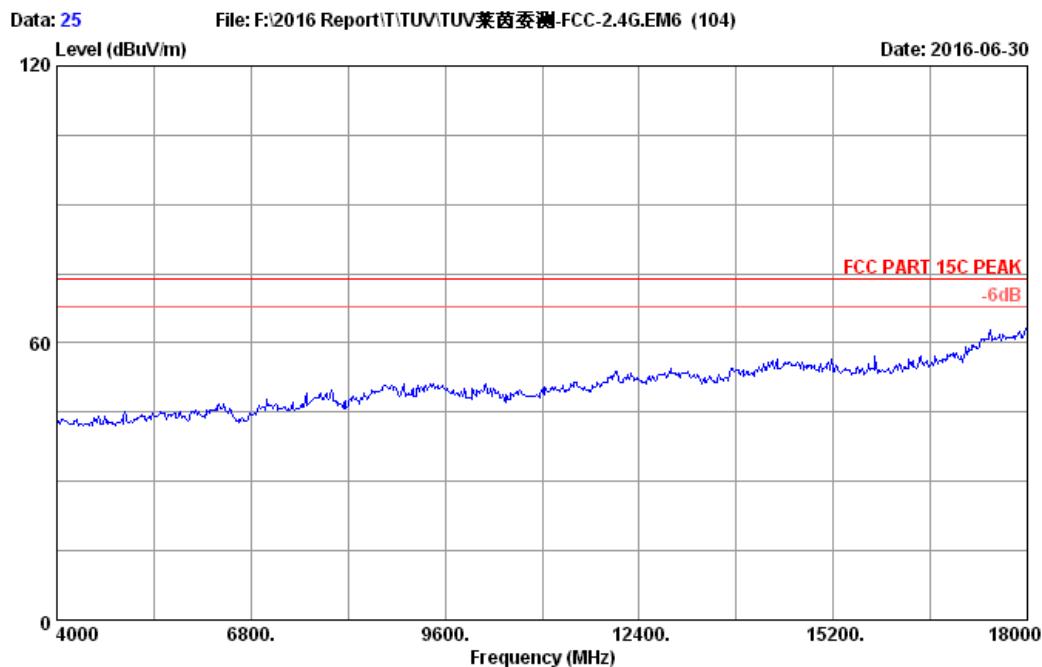
Site no. : 3m Chamber Data no. : 24  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : HORIZONTAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2462MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.35	11.83	35.70	31.42	40.90	54.00	13.10	Average
2	4924.000	33.35	11.83	35.70	43.58	53.06	74.00	20.94	Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official limit are not reported.

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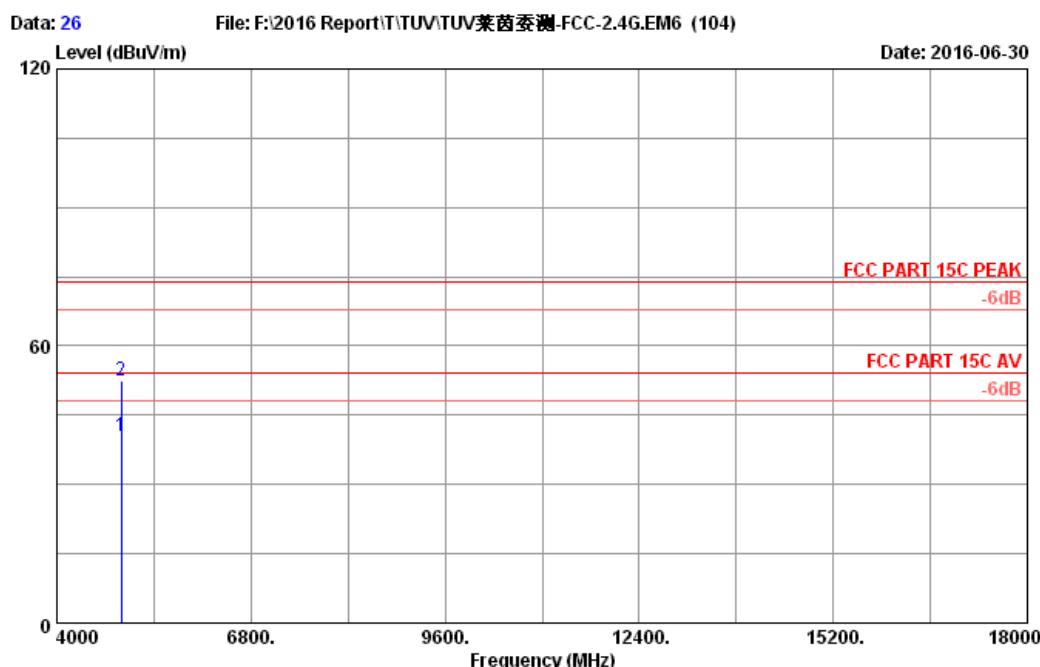
Site no.	:	3m Chamber	Data no. :	25
Dis. / Ant.	:	3m 2015 3115-4877	Ant. pol. :	VERTICAL
Limit	:	FCC PART 15C PEAK		
Env. / Ins.	:	23.5°C/52.4%		
Engineer	:	zack_zhu		
EUT	:	11.6'' windows tablet		
Power rating	:	DC 5V From Adapter Input AC 120V/60Hz		
Test Mode	:	IEEE802.11b 2462MHz Tx Mode		
		M/N: NS-P11W7100		

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Site no. : 3m Chamber Data no. : 26  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11b 2462MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Emission				
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	4924.000	33.35	11.83	35.70	30.85	40.33	54.00	13.67	Average
2	4924.000	33.35	11.83	35.70	42.89	52.37	74.00	21.63	Peak

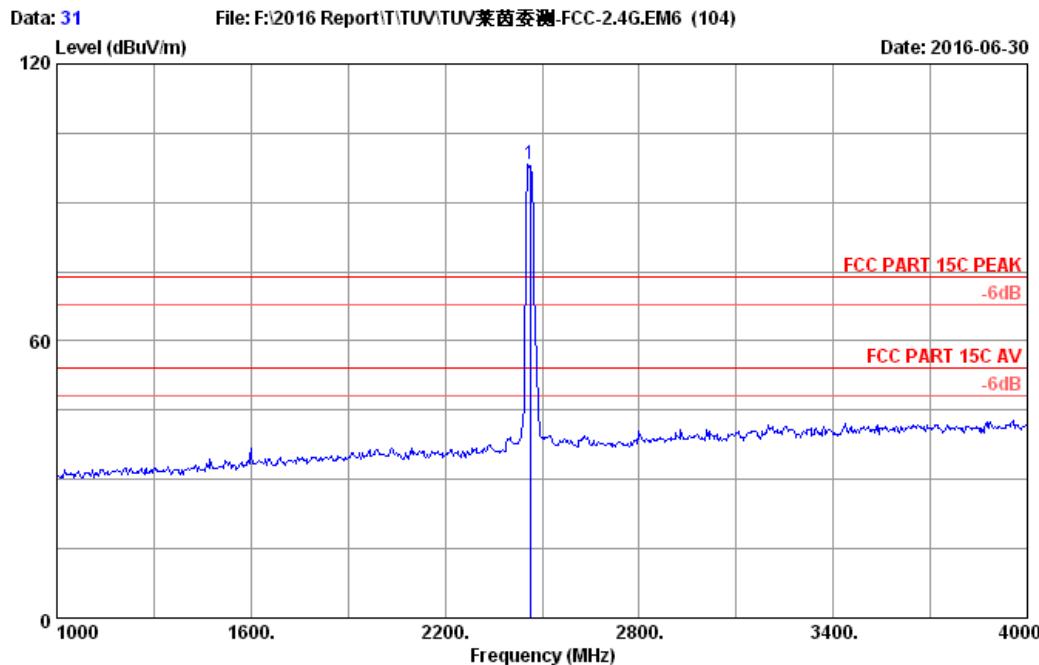
Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.

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Site no. : 3m Chamber Data no. : 31  
Dis. / Ant. : 3m 2015 3115-4877 Ant. pol. : VERTICAL  
Limit : FCC PART 15C PEAK  
Env. / Ins. : 23.5°C/52.4%  
Engineer : zack\_zhu  
EUT : 11.6'' windows tablet  
Power rating : DC 5V From Adapter Input AC 120V/60Hz  
Test Mode : IEEE802.11g 2462MHz Tx Mode  
M/N: NS-P11W7100

No.	Freq. (MHz)	Ant. (dB/m)	Cable Factor (dB)	AMP factor (dB)	Emission			
					Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)
1	2462.000	28.35	8.40	36.38	97.96	98.33	74.00	-24.33 Peak

Remarks: 1. Emission Level = Antenna Factor + Cable Loss + Reading  
-Amp Factor  
2. The emission levels that are 20dB below the official  
limit are not reported.