

## TEST REPORT

**Product** : Intelligent Vehicle Network Gateway  
**Trade mark** : TN-IVS-8000  
**Model/Type reference** : TN-IVS-8000  
**Serial Number** : N/A  
**Report Number** : EED32I00216502  
**FCC ID** : 2AJDT-TNIVS8000  
**Date of Issue** : Sep. 23, 2016  
**Test Standards** : 47 CFR Part 15Subpart C (2015)  
**Test result** : PASS

Prepared for:

**ZHEJIANG THIRD NET CO., LTD.**  
**6th FL Building A, The Intelligence e Valley, No. 482 Qianmo Road,**  
**Binjiang District, Hangzhou, Zhejiang, china**

Prepared by:

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Check No.: 2402635644

## 2 Version

Version No.	Date	Description
00	Sep. 23, 2016	Original

### 3 Test Summary

Test Item	Test Requirement	Test method	Result
<b>Antenna Requirement</b>	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	ANSI C63.10-2013	PASS
<b>AC Power Line Conducted Emission</b>	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013	N/A*
<b>Conducted Peak Output Power</b>	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	ANSI C63.10-2013/ KDB 558074 D01v03r05 KDB 662911 D01v02r01	PASS
<b>6dB Occupied Bandwidth</b>	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	ANSI C63.10-2013/ KDB 558074 D01v03r05	PASS
<b>Power Spectral Density</b>	47 CFR Part 15 Subpart C Section 15.247 (e)	ANSI C63.10-2013/ KDB 558074 D01v03r05 KDB 662911 D01v02r01	PASS
<b>Band-edge for RF Conducted Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013/ KDB 558074 D01v03r05	PASS
<b>RF Conducted Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.247(d)	ANSI C63.10-2013/ KDB 558074 D01v03r05	PASS
<b>Radiated Spurious Emissions</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 KDB 662911 D01v02r01	PASS
<b>Restricted bands around fundamental frequency (Radiated Emission)</b>	47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013 KDB 662911 D01v02r01	PASS

Remark:

\*: The Product is powered by DC 12V.

Test according to ANSI C63.4-2014 & ANSI C63.10-2013.

The tested samples and the sample information are provided by the client.

## 4 Content

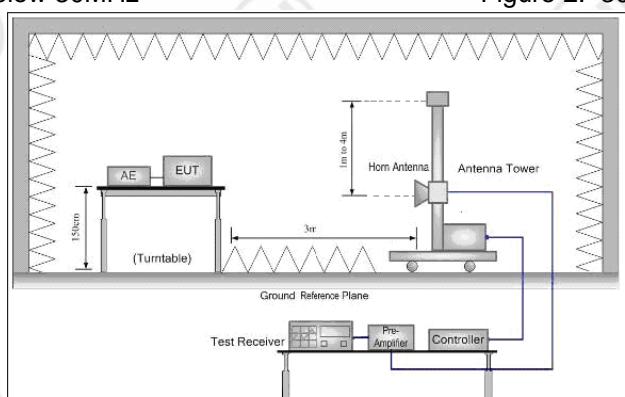
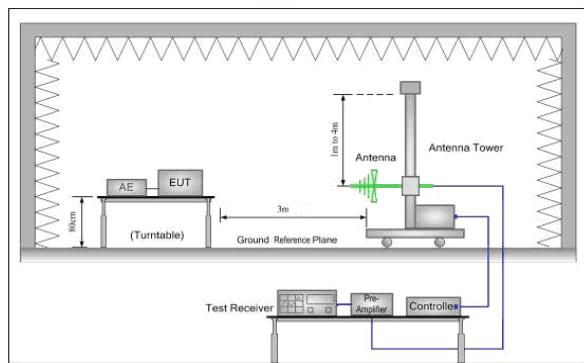
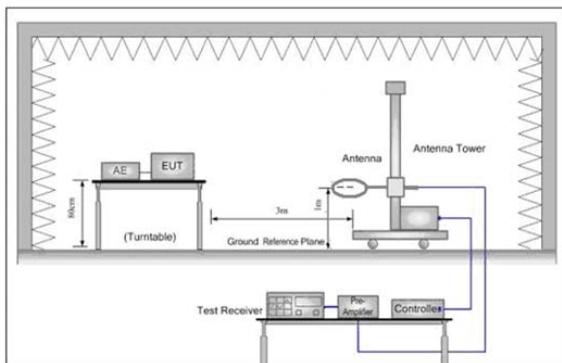
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## 5 Test Requirement

### 5.1 Test setup

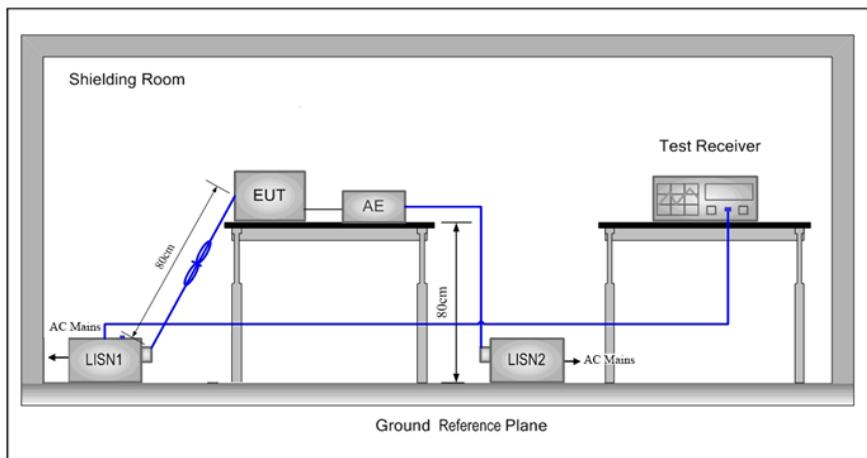
#### 5.1.1 For Radiated Emissions test setup

Radiated Emissions setup:



### 5.1.2 For Conducted Emissions test setup

#### Conducted Emissions setup



### 5.2 Test Environment

#### Operating Environment:

Temperature:	24°C
Humidity:	46% RH
Atmospheric Pressure:	1010mbar

### 5.3 Test Condition

#### Test channel:

Test Mode	Tx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
802.11n(HT40)	2422MHz ~2452 MHz	Channel 1	Channel 4	Channel7
		2422MHz	2437MHz	2452MHz
Transmitting mode: Keep the EUT at Transmit mode				

**Test mode:****Pre-scan under all rate at lowest channel 1 for Antenna 1**

Mode	802.11b								
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps					
Power(dBm)	18.45	18.49	18.52	18.53					
Mode	802.11g								
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
Power(dBm)	16.89	16.88	16.85	16.83	16.80	16.75	16.72	16.70	
Mode	802.11n (HT20)								
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	
Power(dBm)	19.18	19.15	19.11	19.10	19.08	19.05	19.01	19.00	
Mode	802.11n (HT40)								
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	
Power(dBm)	19.00	18.99	18.93	18.91	18.88	18.81	18.80	18.71	

Through Pre-scan, 11Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).

## 6 General Information

### 6.1 Client Information

Applicant:	ZHEJIANG THIRD NET CO., LTD.
Address of Applicant:	6th FL Building A, The Intelligence e Valley, No. 482 Qianmo Road, Binjiang District, Hangzhou, Zhejiang, china
Manufacturer:	ZHEJIANG THIRD NET CO., LTD.
Address of Manufacturer:	6th FL Building A, The Intelligence e Valley, No. 482 Qianmo Road, Binjiang District, Hangzhou, Zhejiang, china

### 6.2 General Description of EUT

Product Name:	Intelligent Vehicle Network Gateway
Model No.(EUT):	TN-IVS-8000
Trade Mark:	TN-IVS-8000
EUT Supports Radios application	GPS: 1575.42MHz Wlan 2.4GHz 802.11b/g/n(HT20&HT40) UMTS: Band II(1900MHz), Band IV(1700MHz), Band V(850MHz) WCDMA LTE: Band 2, Band 4, Band 5, Band 17
Power Supply:	DC 9-36V
Sample Received Date:	Aug. 01, 2016
Sample tested Date:	Aug. 01, 2016 to Sep. 19, 2016

### 6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)
Sample Type:	Fixed production
Test Power Grade:	b:25, g:15, n20:20, n40:23 (manufacturer declare )
Test Software of EUT:	Atheros Radio Test2 V2.3 (manufacturer declare )
Antenna Type and Gain:	Temporary antenna
Antenna Gain:	3dBi
Test Voltage:	DC 12V

Operation Frequency each of channel(802.11b/g/n HT20)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel(802.11n HT40)					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2422MHz	4	2437MHz	7	2452MHz
2	2427MHz	5	2442MHz		
3	2432MHz	6	2447MHz		

## 6.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Certification	Supplied by
laptop	LENOVO	E46L	FCC DOC	CTI
Mouse	LENOVO	LXH-EMS-10ZA	FCC DOC	CTI
DC Source	QIEKESI	10209898	FCC DOC	CTI

## 6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.

## 6.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

### CNAS-Lab Code: L1910

Centre Testing International Group Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories..

### A2LA-Lab Cert. No. 3061.01

Centre Testing International Group Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

### FCC-Registration No.: 886427

Centre Testing International Group Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 886427.

### IC-Registration No.: 7408A-2

The 3m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408A-2 .

### IC-Registration No.: 7408B-1

The 10m Alternate Test Site of Centre Testing International Group Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 7408B-1.

#### NEMKO-Aut. No.: ELA503

Centre Testing International Group Co., Ltd. has been assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfils the conditions described in Nemko Document NLA-10.

#### VCCI

The Radiation 3 &10 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-4096.

Main Ports Conducted Interference Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-4563.

Telecommunication Ports Conducted Disturbance Measurement of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: T-2146.

The Radiation 3 meters site of Centre Testing International Group Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-758

### 6.7 Deviation from Standards

None.

### 6.8 Abnormalities from Standard Conditions

None.

### 6.9 Other Information Requested by the Customer

None.

### 6.10 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	$7.9 \times 10^{-8}$
2	RF power, conducted	0.31dB (30MHz-1GHz)
		0.57dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.5dB (30MHz-1GHz)
		4.8dB (1GHz-12.75GHz)
4	Conduction emission	3.6dB (9kHz to 150kHz)
		3.2dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	2.8%
7	DC power voltages	0.025%

## 7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Spectrum Analyzer	Keysight	N9010A	MY54510339	04-01-2016	03-31-2017
Signal Generator	Keysight	N5182B	MY53051549	04-01-2016	03-31-2017
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	01-12-2016	01-11-2017
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-12-2016	01-11-2017
DC Power	Keysight	E3642A	MY54436035	04-01-2016	03-31-2017
PC-1	Lenovo	R4960d	---	04-01-2016	03-31-2017
power meter & power sensor	R&S	OSP120	101374	04-01-2016	03-31-2017
RF control unit	JS Tonscend	JS0806-2	158060006	04-01-2016	03-31-2017
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	04-01-2016	03-31-2017

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	06-05-2016	06-05-2019
TRILOG Broadband Antenna	SCHWARZBECK	VULB9163	9163-484	05-23-2016	05-22-2017
Microwave Preamplifier	Agilent	8449B	3008A02425	02-04-2016	02-03-2017
Horn Antenna	ETS-LINDGREN	3117	00057410	06-30-2015	06-28-2018
Horn Antenna	A.H.SYSTEMS	SAS-574	374	06-30-2015	06-28-2018
Loop Antenna	ETS	6502	00071730	07-30-2015	07-28-2017
Spectrum Analyzer	R&S	FSP40	100416	06-16-2016	06-15-2017
Receiver	R&S	ESCI	100435	06-16-2016	06-15-2017
Multi device Controller	maturo	NCD/070/1071 1112	---	01-12-2016	01-11-2017
LISN	schwarzbeck	NNBM8125	81251547	06-16-2016	06-15-2017
LISN	schwarzbeck	NNBM8125	81251548	06-16-2016	06-15-2017
Signal Generator	Agilent	E4438C	MY45095744	04-01-2016	03-31-2017
Signal Generator	Keysight	E8257D	MY53401106	04-01-2016	03-31-2017
Temperature/ Humidity Indicator	TAYLOR	1451	1905	04-27-2016	04-26-2017
Cable line	Fulai(7M)	SF106	5219/6A	01-12-2016	01-11-2017
Cable line	Fulai(6M)	SF106	5220/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5216/6A	01-12-2016	01-11-2017
Cable line	Fulai(3M)	SF106	5217/6A	01-12-2016	01-11-2017
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-12-2016	01-11-2017
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA09 CL12-0395-001	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	---	01-12-2016	01-11-2017
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	---	01-12-2016	01-11-2017

## 8 Radio Technical Requirements Specification

### Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C (2015)	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices
3	KDB 662911 D01 Multiple Transmitter Output v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band

### Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10/ KDB 558074	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10/ KDB 558074	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10/ KDB 558074	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10/ KDB 558074	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10/ KDB 558074	Power Spectral Density	PASS	Appendix E)
Part15C Section 15.203/15.247 (c)	ANSI C63.10	Antenna Requirement	PASS	Appendix F)
Part15C Section 15.207	ANSI C63.10	AC Power Line Conducted Emission	PASS	N/A
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix H)

## Appendix A): Conducted Peak Output Power

### Test Procedure

- 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.
- Set to the maximum power setting and enable the EUT transmit continuously.
- Measure the conducted output power and record the results in the test report.

### Directional Antenna Gain

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

Antenna 1 Gain (dBi)	Antenna 2 Gain (dBi)	Correlated Chains Directional Gain (dBi)
3	3	6.01

### Result Table

Mode	Antenna	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	Ant1	LCH	18.53	PASS
11B	Ant2	LCH	19.48	PASS
11B	Ant1	MCH	18.29	PASS
11B	Ant2	MCH	18.91	PASS
11B	Ant1	HCH	18.44	PASS
11B	Ant2	HCH	19	PASS
11G	Ant1	LCH	16.89	PASS
11G	Ant2	LCH	15.78	PASS
11G	Ant1	MCH	16.19	PASS
11G	Ant2	MCH	15.92	PASS
11G	Ant1	HCH	16.55	PASS
11G	Ant2	HCH	16.17	PASS
11N20SISO	Ant1	LCH	19.18	PASS
11N20SISO	Ant2	LCH	19.36	PASS
11N20SISO	Ant1	MCH	16.54	PASS
11N20SISO	Ant2	MCH	18.78	PASS
11N20SISO	Ant1	HCH	16.35	PASS
11N20SISO	Ant2	HCH	18.98	PASS
11N20MIMO	Ant1	LCH	19	PASS
11N20MIMO	Ant2	LCH	19.09	PASS
11N20MIMO	Ant1+2	LCH	22.06	PASS
11N20MIMO	Ant1	MCH	19.09	PASS
11N20MIMO	Ant2	MCH	19.64	PASS
11N20MIMO	Ant1+2	MCH	22.38	PASS
11N20MIMO	Ant1	HCH	19.14	PASS
11N20MIMO	Ant2	HCH	19.74	PASS
11N20MIMO	Ant1+2	HCH	22.46	PASS
11N40SISO	Ant1	LCH	18.88	PASS
11N40SISO	Ant2	LCH	19.1	PASS
11N40SISO	Ant1	MCH	19.58	PASS
11N40SISO	Ant2	MCH	19.43	PASS
11N40SISO	Ant1	HCH	18.47	PASS
11N40SISO	Ant2	HCH	19.04	PASS
11N40MIMO	Ant1	LCH	19	PASS
11N40MIMO	Ant2	LCH	19.38	PASS

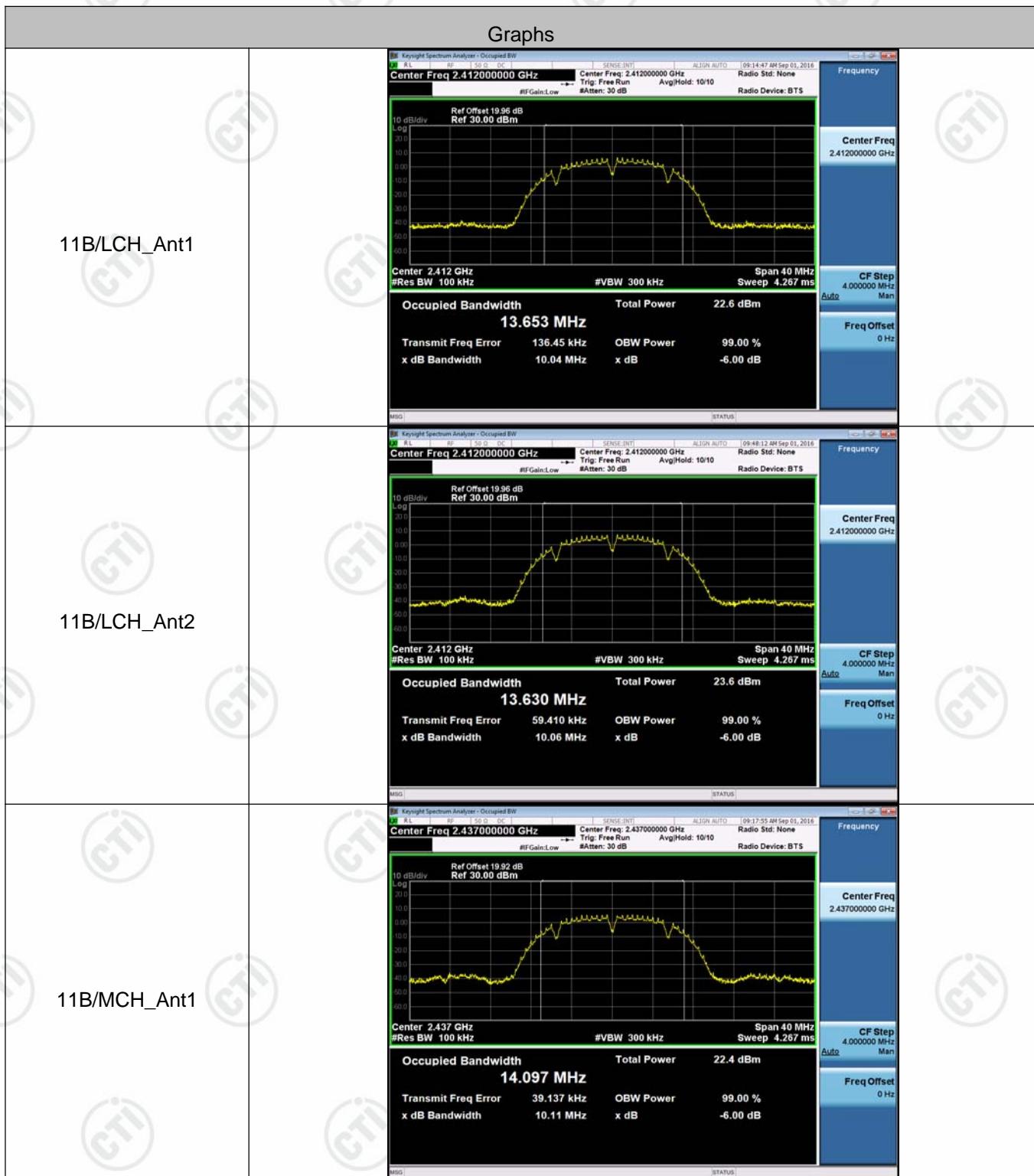
11N40MIMO	Ant1+2	LCH	22.20	PASS
11N40MIMO	Ant1	MCH	18.76	PASS
11N40MIMO	Ant2	MCH	19.17	PASS
11N40MIMO	Ant1+2	MCH	21.98	PASS
11N40MIMO	Ant1	HCH	18.32	PASS
11N40MIMO	Ant2	HCH	18.9	PASS
11N40MIMO	Ant1+2	HCH	21.63	PASS

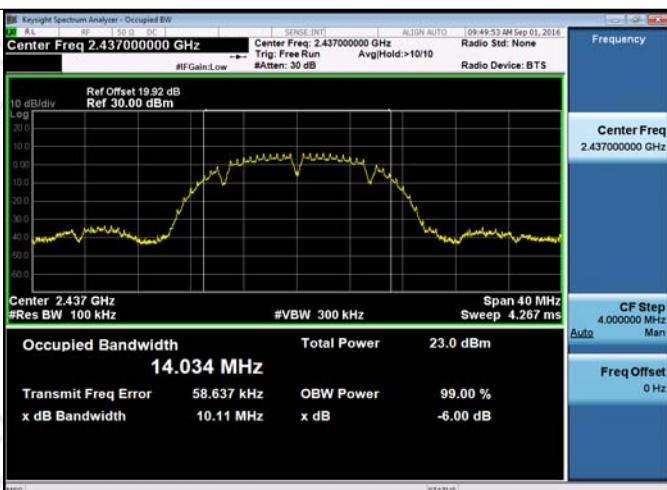
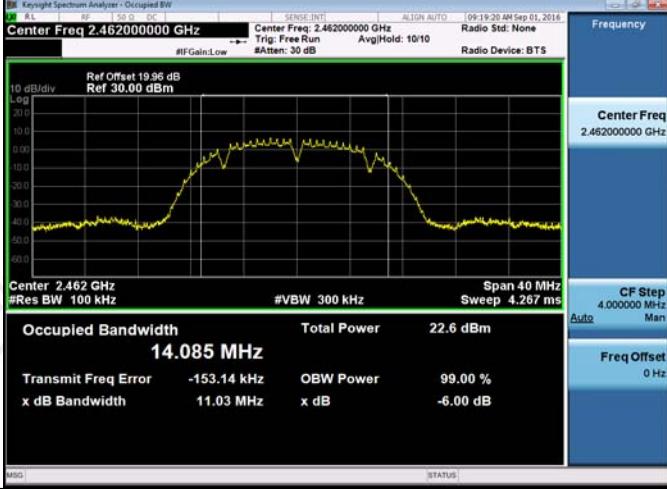
## Appendix B): 6dB Occupied Bandwidth

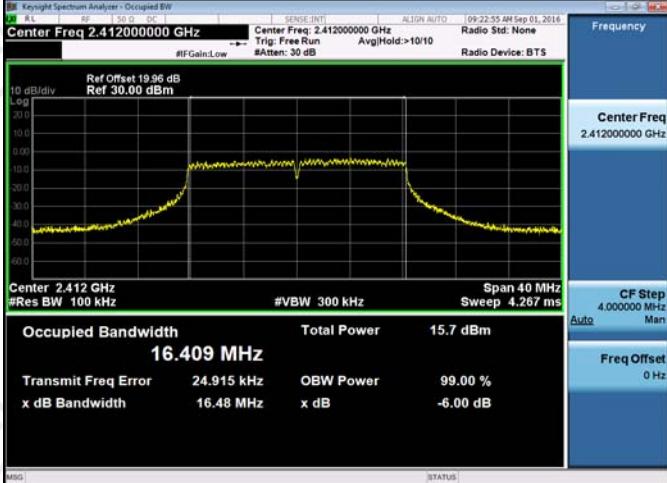
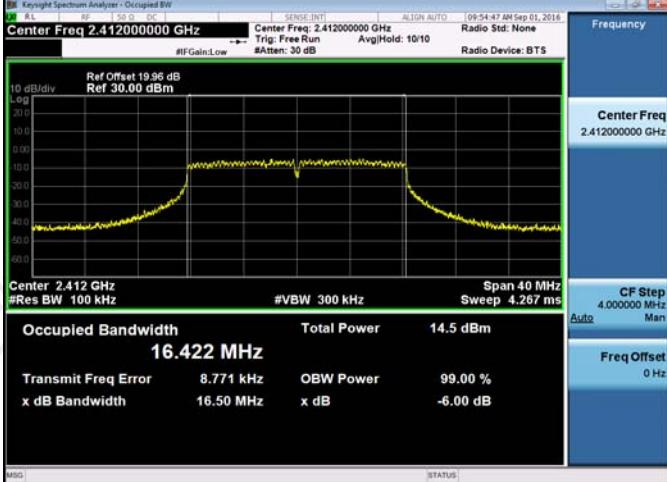
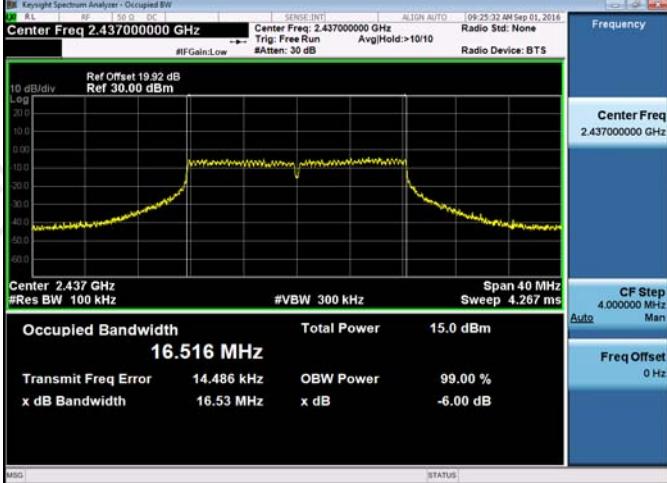
**Result Table**

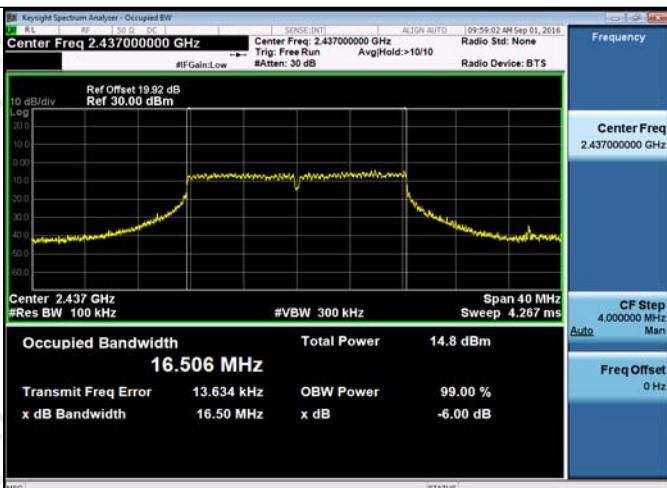
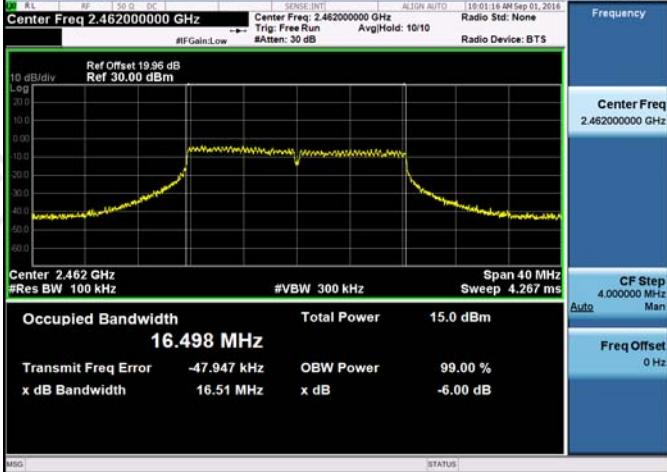
Mode	Antenna	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict	Remark
11B	Ant1	LCH	10.04	13.653	PASS	Peak detector
11B	Ant2	LCH	10.06	13.630	PASS	
11B	Ant1	MCH	10.11	14.097	PASS	
11B	Ant2	MCH	10.11	14.034	PASS	
11B	Ant1	HCH	11.03	14.085	PASS	
11B	Ant2	HCH	11.02	13.991	PASS	
11G	Ant1	LCH	16.48	16.409	PASS	
11G	Ant2	LCH	16.50	16.422	PASS	
11G	Ant1	MCH	16.53	16.516	PASS	
11G	Ant2	MCH	16.50	16.506	PASS	
11G	Ant1	HCH	16.48	16.510	PASS	
11G	Ant2	HCH	16.51	16.498	PASS	
11N20SISO	Ant1	LCH	17.64	17.627	PASS	
11N20SISO	Ant2	LCH	17.70	17.638	PASS	
11N20SISO	Ant1	MCH	17.81	17.801	PASS	
11N20SISO	Ant2	MCH	17.81	17.779	PASS	
11N20SISO	Ant1	HCH	17.74	17.783	PASS	
11N20SISO	Ant2	HCH	17.69	17.762	PASS	
11N20MIMO	Ant1	LCH	17.72	17.666	PASS	
11N20MIMO	Ant2	LCH	17.64	17.604	PASS	
11N20MIMO	Ant1	MCH	17.77	17.786	PASS	
11N20MIMO	Ant2	MCH	17.76	17.755	PASS	
11N20MIMO	Ant1	HCH	17.69	17.813	PASS	
11N20MIMO	Ant2	HCH	17.71	17.745	PASS	
11N40SISO	Ant1	LCH	36.43	36.236	PASS	
11N40SISO	Ant2	LCH	36.48	36.291	PASS	
11N40SISO	Ant1	MCH	36.55	36.436	PASS	
11N40SISO	Ant2	MCH	36.59	36.415	PASS	
11N40SISO	Ant1	HCH	36.44	36.244	PASS	
11N40SISO	Ant2	HCH	36.52	36.249	PASS	
11N40MIMO	Ant1	LCH	36.46	36.278	PASS	
11N40MIMO	Ant2	LCH	36.46	36.260	PASS	
11N40MIMO	Ant1	MCH	36.57	36.440	PASS	
11N40MIMO	Ant2	MCH	36.57	36.365	PASS	
11N40MIMO	Ant1	HCH	36.46	36.264	PASS	
11N40MIMO	Ant2	HCH	36.46	36.220	PASS	

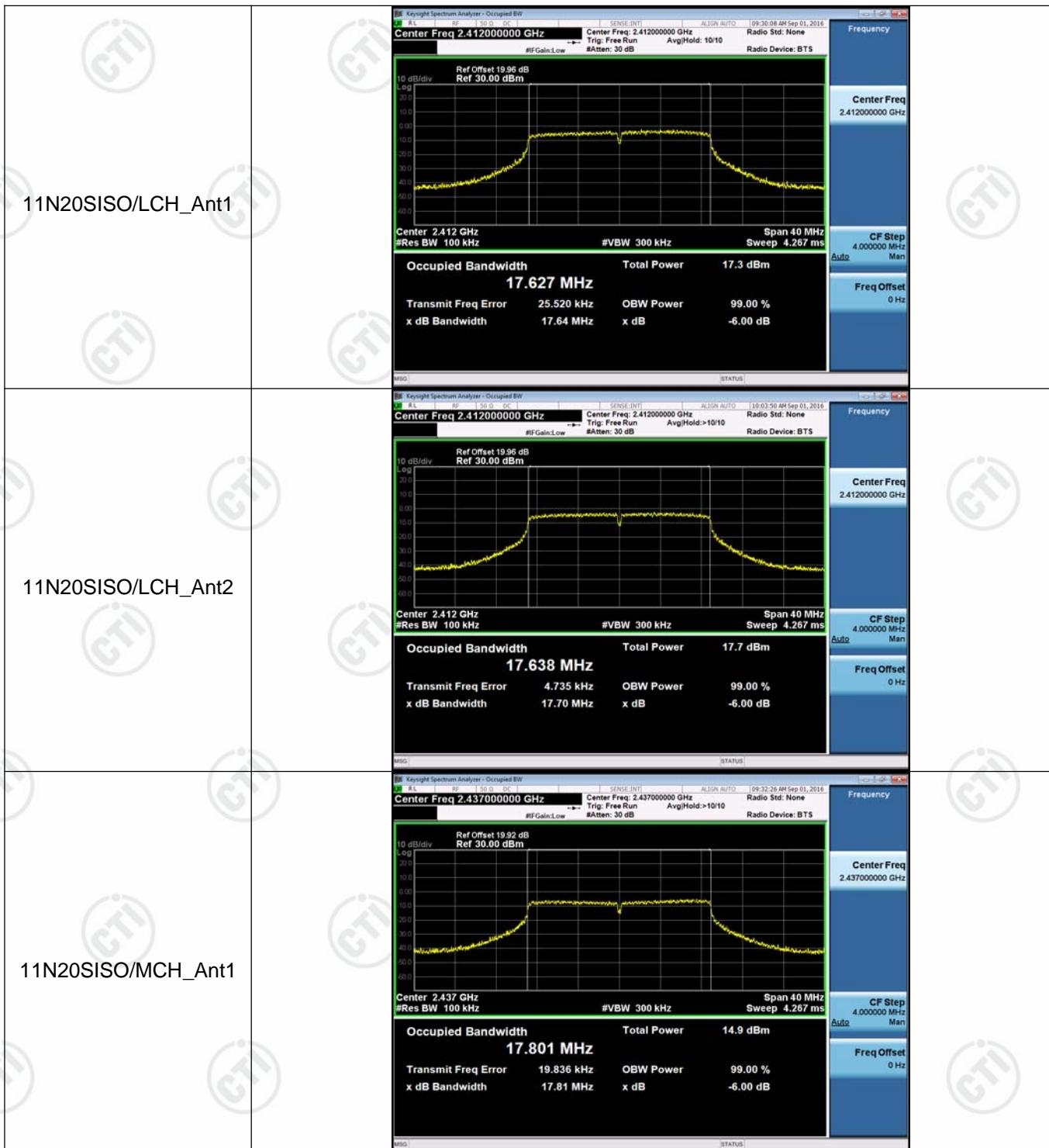
## Test Graph



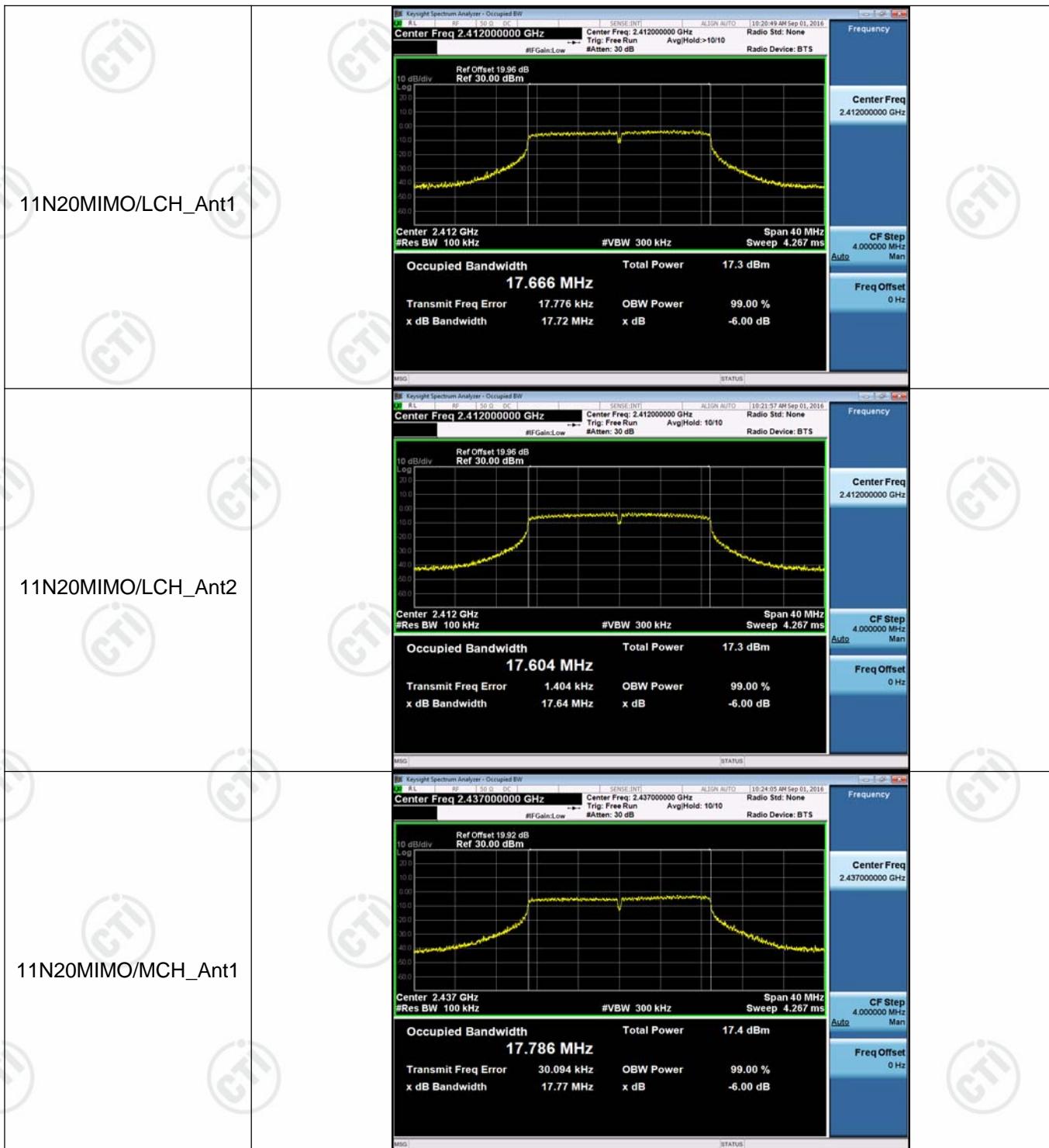
11B/MCH_Ant2	
11B/HCH_Ant1	
11B/HCH_Ant2	

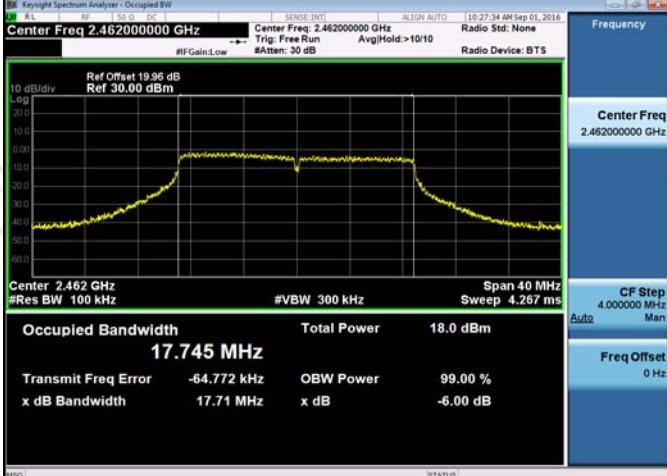
11G/LCH_Ant1	
11G/LCH_Ant2	
11G/MCH_Ant1	

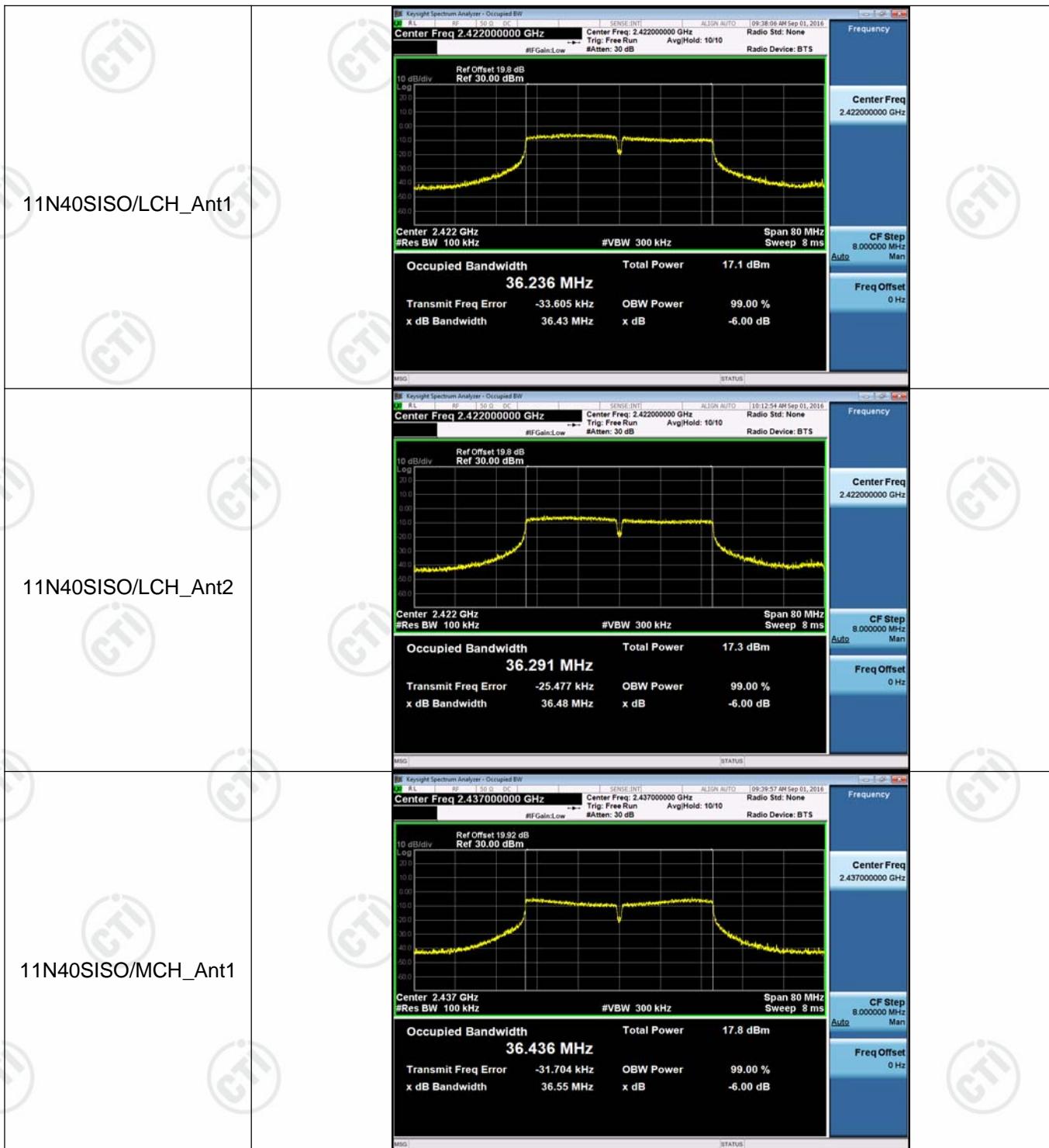
11G/MCH_Ant2	
11G/HCH_Ant1	
11G/HCH_Ant2	

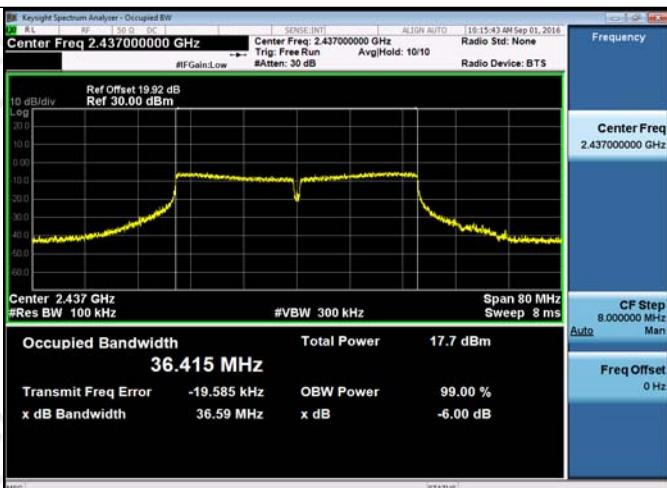
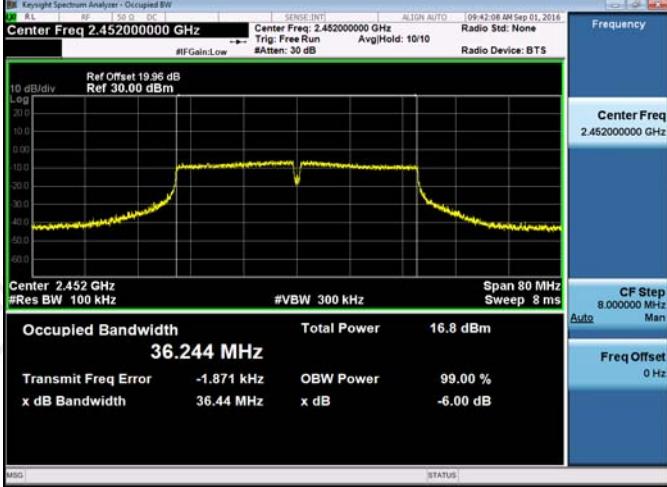


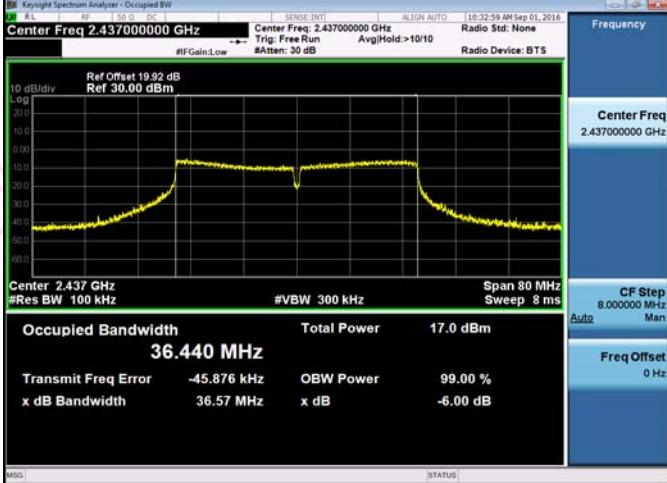
11N20SISO/MCH_Ant2	
11N20SISO/HCH_Ant1	
11N20SISO/HCH_Ant2	

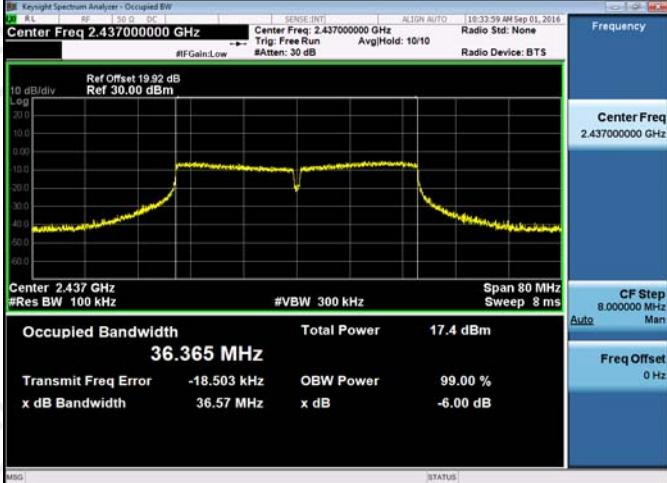
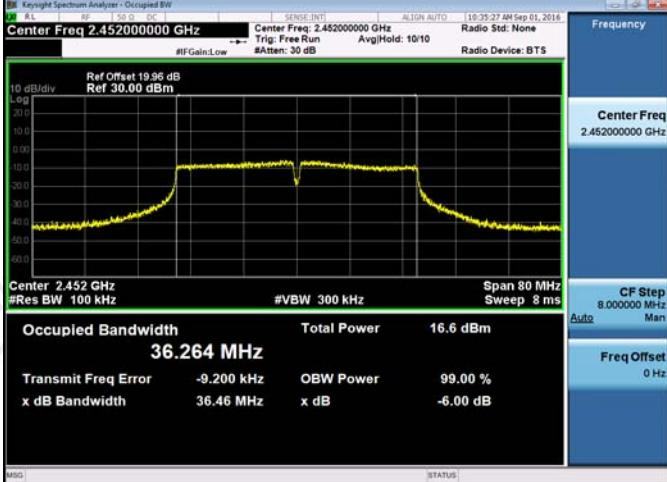


11N20MIMO/MCH_Ant2	
11N20MIMO/HCH_Ant1	
11N20MIMO/HCH_Ant2	



11N40SISO/MCH_Ant2	
11N40SISO/HCH_Ant1	
11N40SISO/HCH_Ant2	

11N40MIMO/LCH_Ant1	
11N40MIMO/LCH_Ant2	
11N40MIMO/MCH_Ant1	

11N40MIMO/MCH_Ant2	
11N40MIMO/HCH_Ant1	
11N40MIMO/HCH_Ant2	

## Appendix C): Band-edge for RF Conducted Emissions

**Result Table**

Mode	Antenna	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Ant1	LCH	5.537	-48.854	-14.46	PASS
11B	Ant2	LCH	6.995	-49.225	-13.01	PASS
11B	Ant1	HCH	5.374	-48.938	-14.63	PASS
11B	Ant2	HCH	6.287	-48.656	-13.71	PASS
11G	Ant1	LCH	-4.081	-49.673	-24.08	PASS
11G	Ant2	LCH	2.938	-44.180	-17.06	PASS
11G	Ant1	HCH	-3.603	-49.247	-23.6	PASS
11G	Ant2	HCH	-2.699	-48.280	-22.7	PASS
11N20SISO	Ant1	LCH	-2.669	-49.564	-22.67	PASS
11N20SISO	Ant2	LCH	-2.397	-48.080	-22.4	PASS
11N20SISO	Ant1	HCH	-5.069	-48.924	-25.07	PASS
11N20SISO	Ant2	HCH	-2.522	-48.993	-22.52	PASS
11N20MIMO	Ant1	LCH	-3.517	-48.523	-23.52	PASS
11N20MIMO	Ant2	LCH	-1.496	-48.306	-21.5	PASS
11N20MIMO	Ant1	HCH	-1.110	-46.648	-21.11	PASS
11N20MIMO	Ant2	HCH	-0.433	-48.727	-20.43	PASS
11N40SISO	Ant1	LCH	-5.380	-46.167	-25.38	PASS
11N40SISO	Ant2	LCH	-5.241	-45.237	-25.24	PASS
11N40SISO	Ant1	HCH	-6.291	-46.237	-26.29	PASS
11N40SISO	Ant2	HCH	-3.801	-44.921	-23.8	PASS
11N40MIMO	Ant1	LCH	-4.886	-45.208	-24.89	PASS
11N40MIMO	Ant2	LCH	-4.076	-45.326	-24.08	PASS
11N40MIMO	Ant1	HCH	-6.006	-45.651	-26.01	PASS
11N40MIMO	Ant2	HCH	-5.454	-46.659	-25.45	PASS

### Test Graph

