

TEST REPORT

Product : Mini PC
Trade mark : CHUWI
Model/Type reference : CoreBox Pro
Serial Number : N/A
Report Number : EED32M80125703
FCC ID : 2AHLZ-COREBOXPRO
Date of Issue : Jan. 11, 2021
Test Standards : 47 CFR Part 15Subpart C
Test result : PASS

Prepared for:

CHUWI TECHNOLOGY (ShenZhen) CO., LIMITED
2 Floor Building 3 LiJinCheng Industrial park
the east of Gongye road LongHua, Shenzhen, China

Prepared by:

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Date:

Jan. 11, 2021



Check No: 4437141220

2 Version

Version No.	Date	Description
00	Jan. 11, 2021	Original

3 Test Summary

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

Remark:

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

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

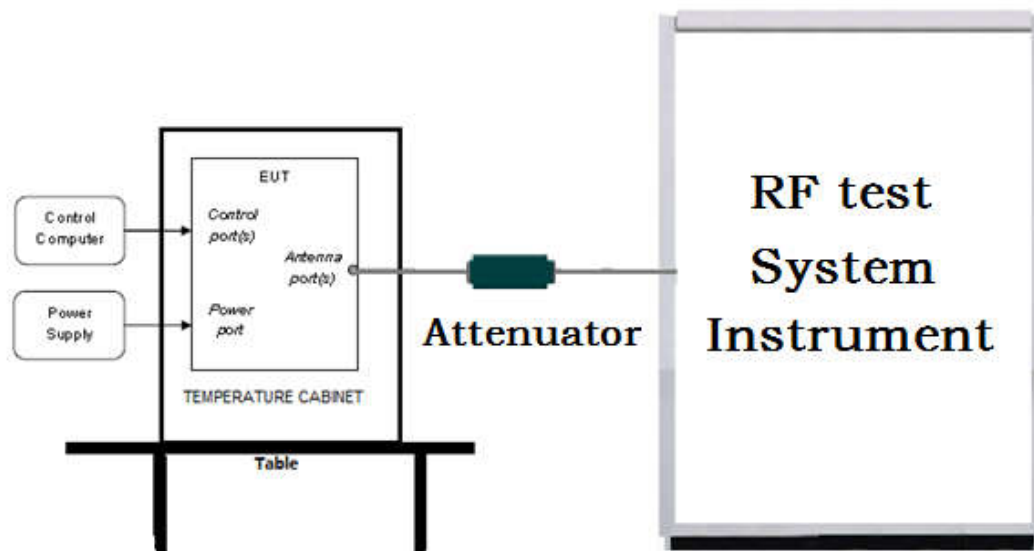
4 Content

1 COVER PAGE	1
2 VERSION	2
3 TEST SUMMARY	3
4 CONTENT	4
5 TEST REQUIREMENT	5
5.1 TEST SETUP	5
5.1.1 For Conducted test setup	5
5.1.2 For Radiated Emissions test setup	5
5.1.3 For Conducted Emissions test setup	6
5.2 TEST ENVIRONMENT	6
5.3 TEST CONDITION	6
6 GENERAL INFORMATION	8
6.1 CLIENT INFORMATION	8
6.2 GENERAL DESCRIPTION OF EUT	8
6.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	8
6.4 DESCRIPTION OF SUPPORT UNITS	10
6.5 TEST LOCATION	10
6.6 DEVIATION FROM STANDARDS	10
6.7 ABNORMALITIES FROM STANDARD CONDITIONS	10
6.8 OTHER INFORMATION REQUESTED BY THE CUSTOMER	10
6.9 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, $K=2$)	10
7 EQUIPMENT LIST	11
8 RADIO TECHNICAL REQUIREMENTS SPECIFICATION	14
Appendix A): Conducted Peak Output Power	15
Appendix B): 6dB Occupied Bandwidth	29
Appendix C): Band-edge for RF Conducted Emissions	51
Appendix D): RF Conducted Spurious Emissions	59
Appendix E): Power Spectral Density	97
Appendix F): Antenna Requirement	111
Appendix G): AC Power Line Conducted Emission	112
Appendix H): Restricted bands around fundamental frequency (Radiated)	115
Appendix I): Radiated Spurious Emissions	196
PHOTOGRAPHS OF TEST SETUP	213
PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	216

5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

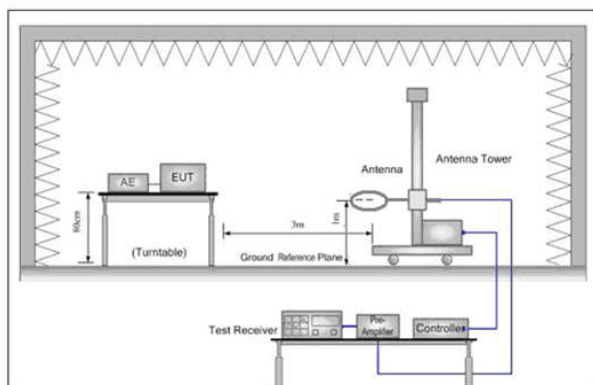


Figure 1. Below 30MHz

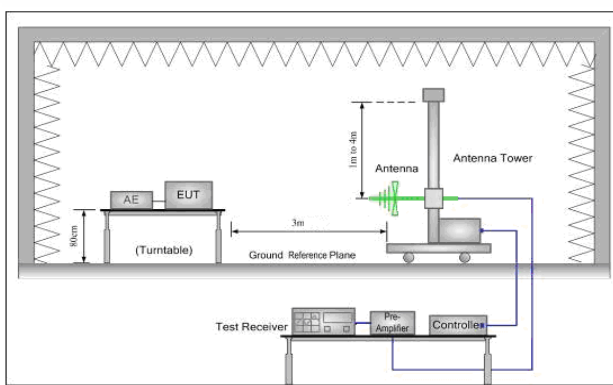


Figure 2. 30MHz to 1GHz

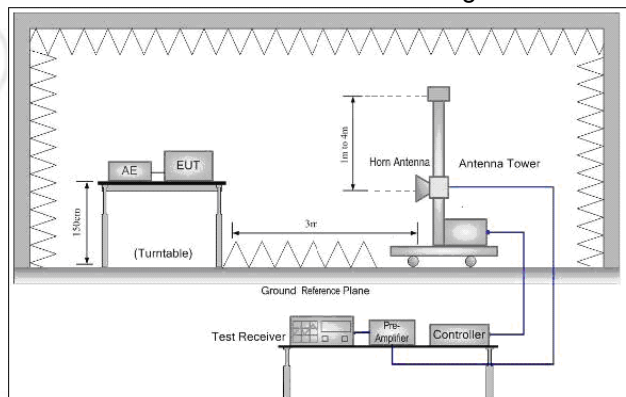
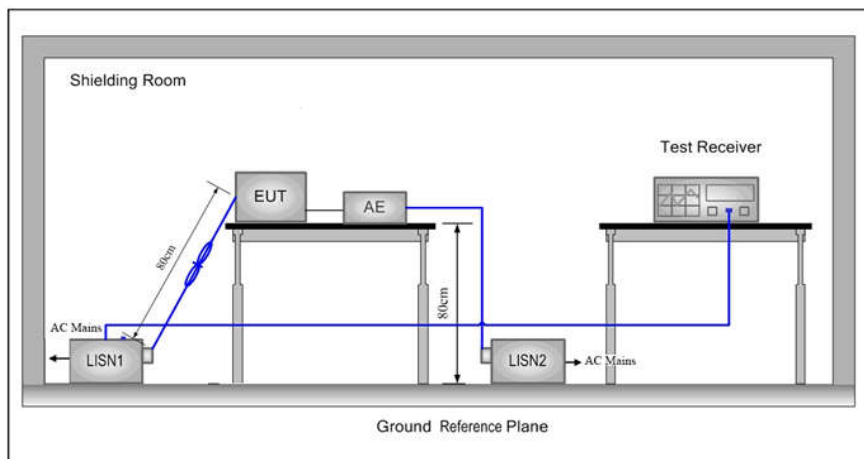


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	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 3	Channel 6	Channel 9
		2422MHz	2437MHz	2452MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

Test mode:

Pre-scan under all rate at lowest channel

Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power(dBm)	15.96	15.86	15.52	15.48				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power(dBm)	14.94	14.86	14.33	14.72	14.57	14.69	14.21	14.37
Mode	802.11n (HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power(dBm)	13.73	13.71	13.68	13.66	13.64	13.62	13.60	13.58
Mode	802.11n (HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power(dBm)	12.44	12.45	12.37	12.36	12.31	12.27	12.25	12.22

Through Pre-scan, 1Mbps 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:	CHUWI TECHNOLOGY (ShenZhen) CO., LIMITED
Address of Applicant:	2 Floor Building 3 LiJinCheng Industrial park the east of Gongye road LongHua, Shenzhen, China
Manufacturer:	CHUWI TECHNOLOGY (ShenZhen) CO., LIMITED
Address of Manufacturer:	2 Floor Building 3 LiJinCheng Industrial park the east of Gongye road LongHua, Shenzhen, China
Factory:	ILIFE Technology Co.,Ltd
Address of Factory:	3rd Floor,Bld3; 4-5rd,Bld6 ,LiJinCheng Industrial Park,The East of Gong Ye Road,LongHua ,ShenZhen, Guangdong Province,China

6.2 General Description of EUT

Product Name:	Mini PC	
Model No.(EUT):	CoreBox Pro	
Trade mark:	CHUWI	
Frequency Range of Operation:	IEEE 802.11b/g/n(HT20)(HT40): 2400MHz to 2483.5MHz	
Power Supply:	Adapter	Model:RJ-AS190342 Input:100-240V~50/60Hz1.5A Output:19.0V---3.42A
Sample Received Date:	Dec. 15, 2020	
Sample tested Date:	Dec. 15, 2020 to Jan.08, 2020	

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)
Test Power Grade:	Default
Test Software of EUT:	DRTU
Antenna Type and Gain:	Type: FPC antenna Gain: Antenna 1 :1.5dBi; Antenna 2: 1.5 dBi
Test Voltage:	DC 19V

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	
3		2422MHz		6		2437MHz	
4		2427MHz		7		2442MHz	
5		2432MHz		8		2447MHz	

6.4 Description of Support Units

The EUT has been tested independently

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

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

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	4.3dB (30MHz-1GHz)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	02-17-2020	02-16-2021
Signal Generator	Keysight	N5182B	MY53051549	02-17-2020	02-16-2021
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-29-2020	06-28-2021
High-pass filter	Sinoscite	FL3CX03WG18N M12-0398-002	---	---	---
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	---	---
DC Power	Keysight	E3642A	MY56376072	02-17-2020	02-16-2021
PC-1	Lenovo	R4960d	---	---	---
BT&WI-FI Automatic control	R&S	OSP120	101374	02-17-2020	02-16-2021
RF control unit	JS Tonscend	JS0806-2	158060006	02-17-2020	02-16-2021
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	---	---	---

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-28-2020	04-27-2021
Temperature/ Humidity Indicator	Defu	TH128	/	---	---
LISN	R&S	ENV216	100098	03-05-2020	03-04-2021
Barometer	changchun	DYM3	1188	---	---

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	05-16-2020	05-15-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI7	100938-003	10-21-2019	10-20-2020
Multi device Controller	maturo	NCD/070/107 11112	---	---	---
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	06-29-2020	06-28-2021
Cable line	Fulai(7M)	SF106	5219/6A	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
RSE Automatic test software	JS Tonscend	JS36-RSE	10166	---	---
Receiver	Keysight	N9038A	MY57290136	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-05-2020	03-04-2021
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-05-2020	03-04-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-20-2020	05-19-2021
Preamplifier	EMCI	EMC001330	980563	04-22-2020	04-21-2021
Preamplifier	JS Tonscend	980380	EMC051845 SE	01-17-2020	01-16-2021
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-27-2020	04-26-2021
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	---	---
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	---	---
Cable line	Times	EMC104-NMNM-1000	SN160710	---	---
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	---	---
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	---	---
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	---	---
Cable line	Times	HF160-KMKM-3.00M	393493-0001	---	---

8 Radio Technical Requirements Specification

Reference documents for testing:

No.	Identity	Document Title
1	FCC Part15C	Subpart C-Intentional Radiators
2	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Test Results List:

Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	Appendix C)
Part15C Section 15.247(d)	ANSI C63.10	RF Conducted Spurious Emissions	PASS	Appendix D)
Part15C Section 15.247 (e)	ANSI C63.10	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	Appendix G)
Part15C Section 15.205/15.209	ANSI C63.10	Restricted bands around fundamental frequency (Radiated Emission)	PASS	Appendix H)
Part15C Section 15.205/15.209	ANSI C63.10	Radiated Spurious Emissions	PASS	Appendix I)

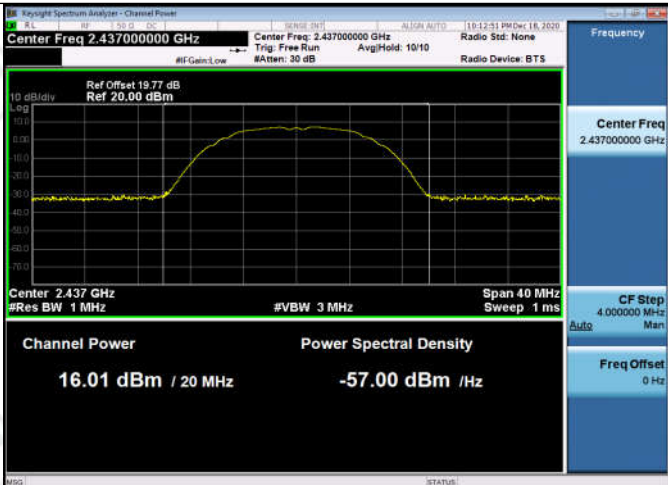
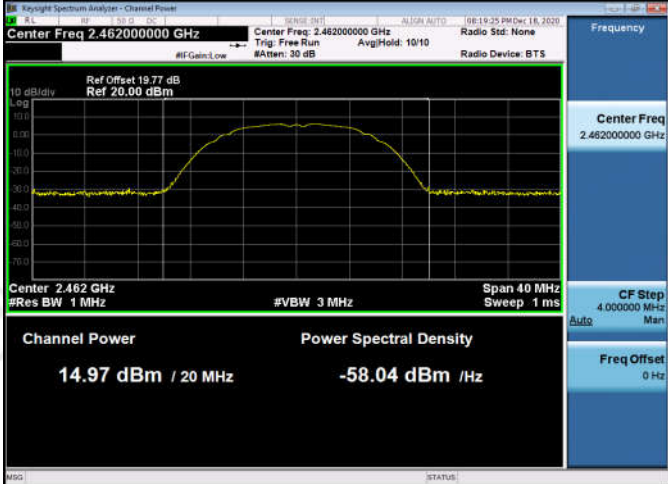
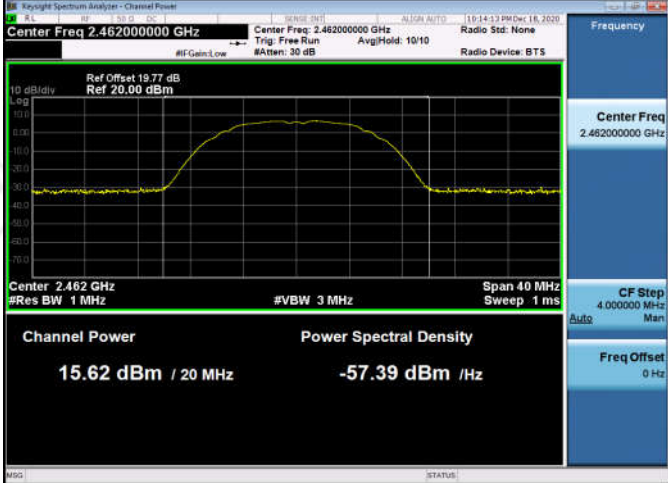
Appendix A): Conducted Peak Output Power
Result Table

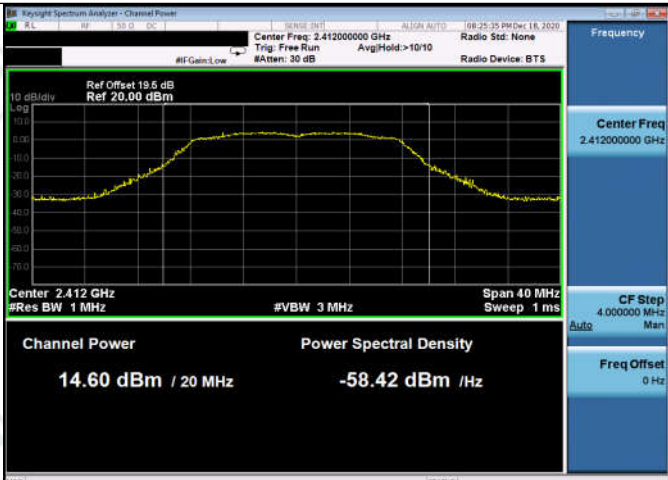
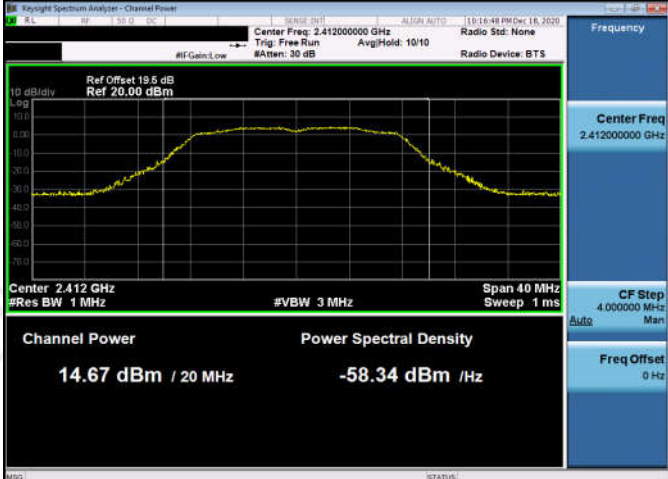
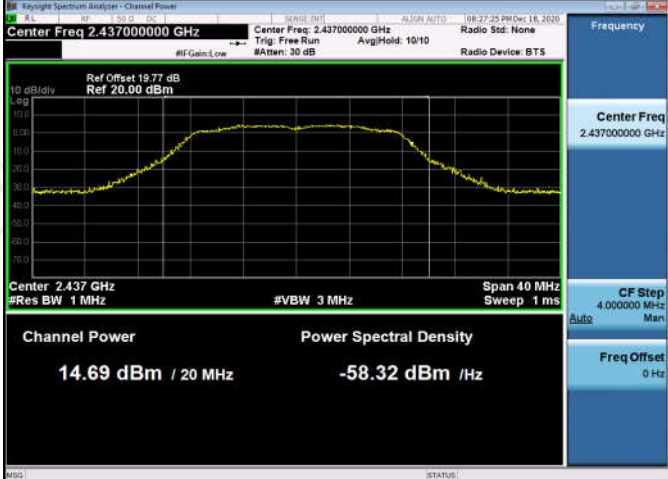
Mode	Antenna	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	Ant1	LCH	15.08	PASS
11B	Ant2	LCH	15.63	PASS
11B	Ant1	MCH	15.38	PASS
11B	Ant2	MCH	16.01	PASS
11B	Ant1	HCH	14.97	PASS
11B	Ant2	HCH	15.62	PASS
11G	Ant1	LCH	14.58	PASS
11G	Ant2	LCH	14.67	PASS
11G	Ant1	MCH	14.69	PASS
11G	Ant2	MCH	14.94	PASS
11G	Ant1	HCH	14.33	PASS
11G	Ant2	HCH	14.54	PASS
11N20SISO	Ant1	LCH	14.14	PASS
11N20SISO	Ant2	LCH	13.05	PASS
11N20SISO	Ant1	MCH	14.26	PASS
11N20SISO	Ant2	MCH	13.42	PASS
11N20SISO	Ant1	HCH	13.76	PASS
11N20SISO	Ant2	HCH	12.97	PASS
11N20MIMO	Ant1	LCH	10.42	PASS
11N20MIMO	Ant2	LCH	9.96	PASS
11N20MIMO	Ant1+2	LCH	13.21	PASS
11N20MIMO	Ant1	MCH	10.23	PASS
11N20MIMO	Ant2	MCH	10.2	PASS
11N20MIMO	Ant1+2	MCH	13.23	PASS
11N20MIMO	Ant1	HCH	9.59	PASS
11N20MIMO	Ant2	HCH	9.81	PASS
11N20MIMO	Ant1+2	HCH	12.71	PASS
11N40SISO	Ant1	LCH	12.9	PASS
11N40SISO	Ant2	LCH	12.64	PASS
11N40SISO	Ant1	MCH	12.6	PASS
11N40SISO	Ant2	MCH	12.58	PASS
11N40SISO	Ant1	HCH	12.43	PASS

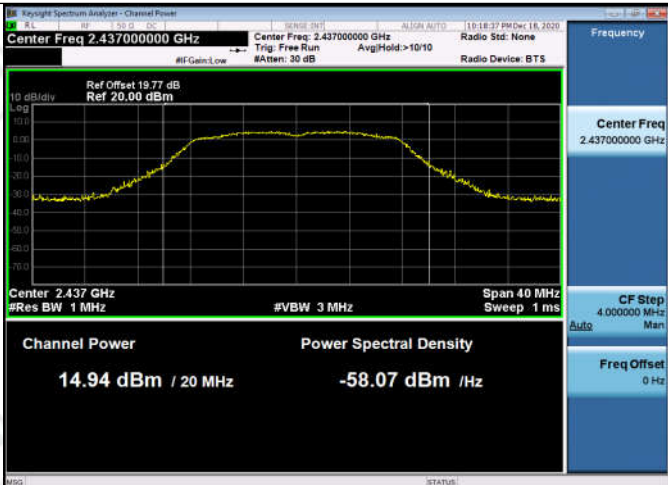
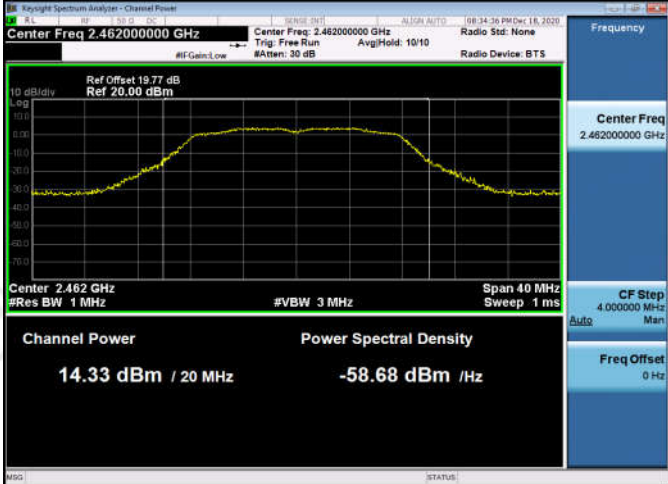
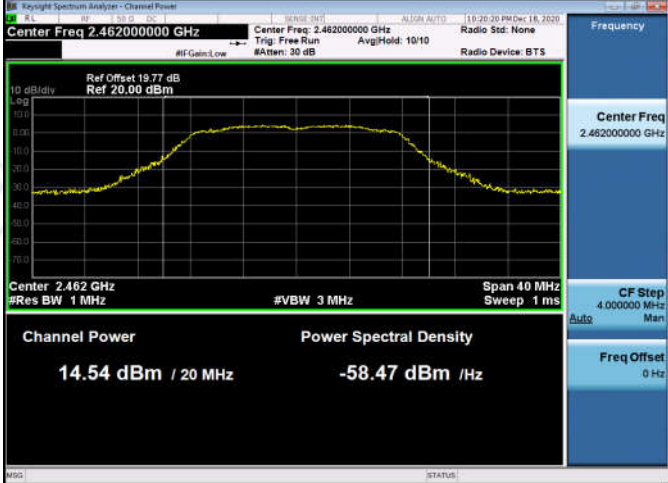
11N40SISO	Ant2	HCH	12.42	PASS
11N40MIMO	Ant1	LCH	9.43	PASS
11N40MIMO	Ant2	LCH	8.92	PASS
11N40MIMO	Ant1+2	LCH	12.19	PASS
11N40MIMO	Ant1	MCH	8.46	PASS
11N40MIMO	Ant2	MCH	8.88	PASS
11N40MIMO	Ant1+2	MCH	11.69	PASS
11N40MIMO	Ant1	HCH	8.68	PASS
11N40MIMO	Ant2	HCH	8.82	PASS
11N40MIMO	Ant1+2	HCH	11.76	PASS

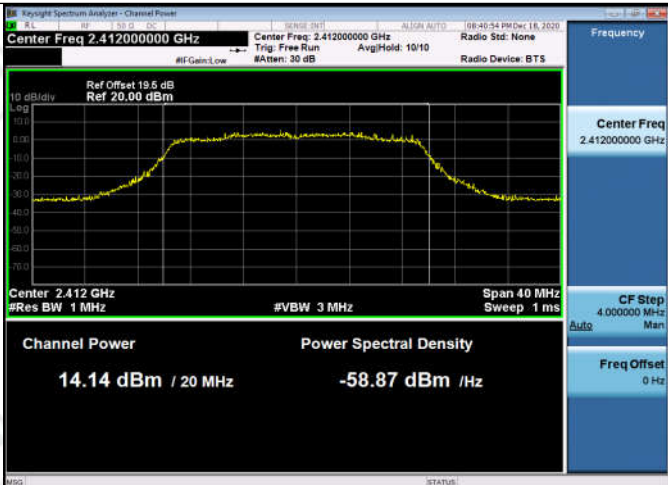
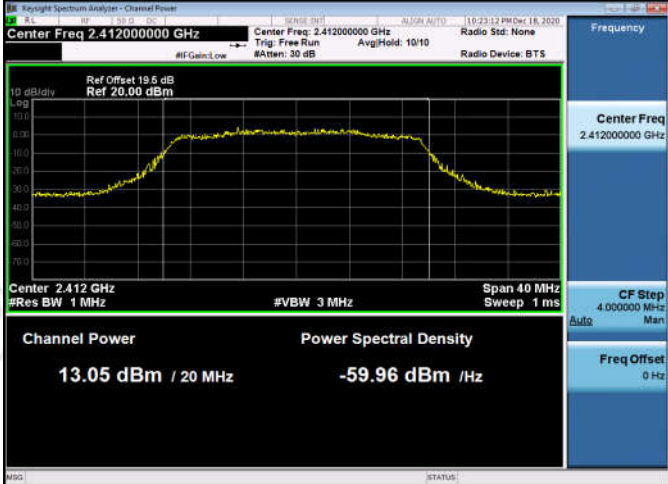
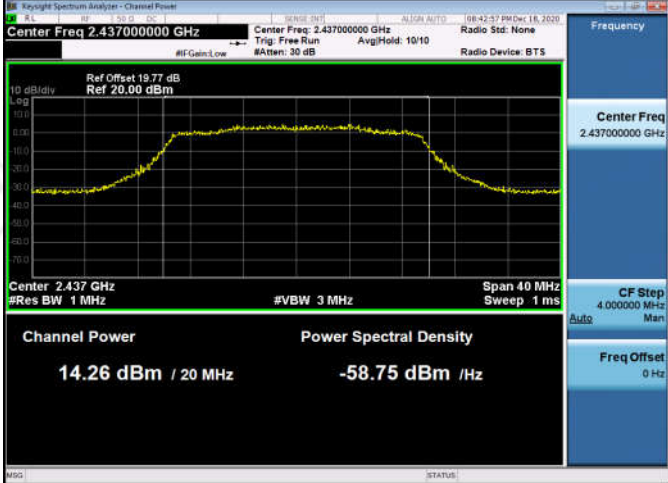
Test Graph

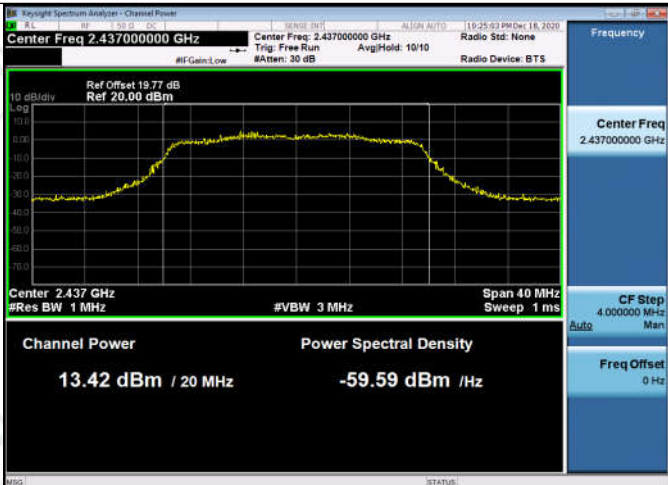
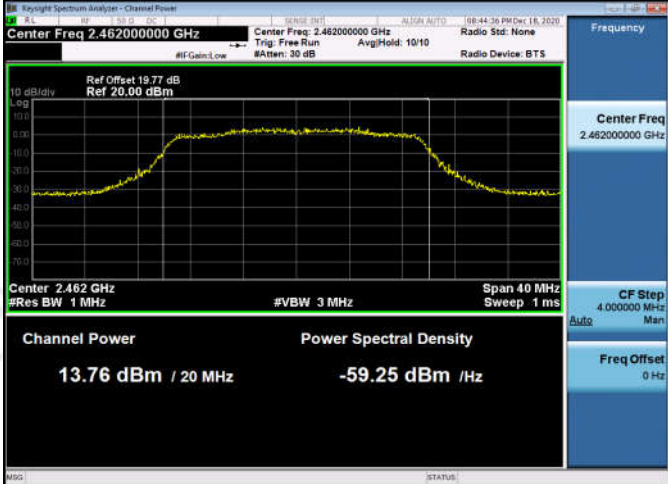
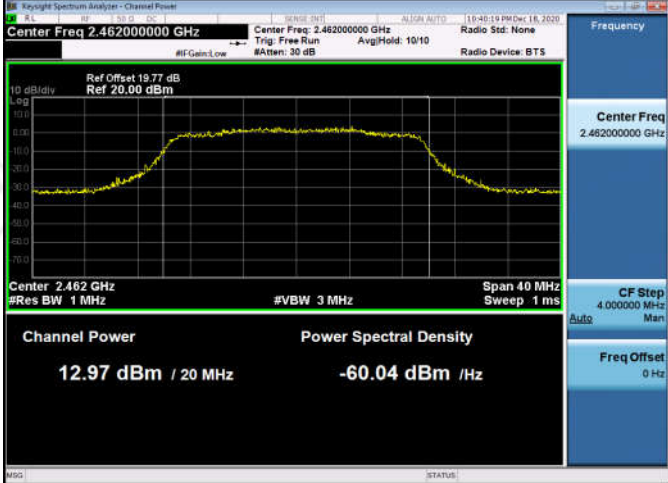


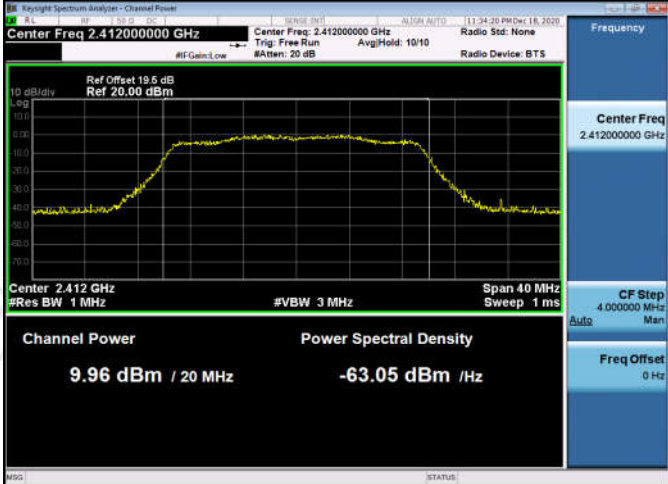
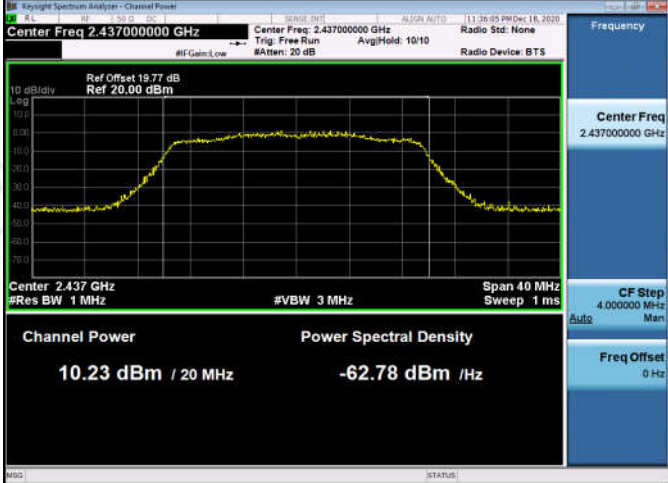
11B/MCH_Ant2	
11B/HCH_Ant1	
11B/HCH_Ant2	

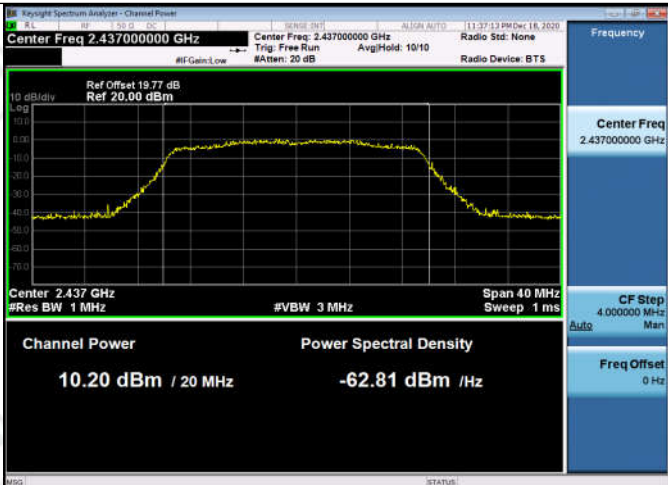
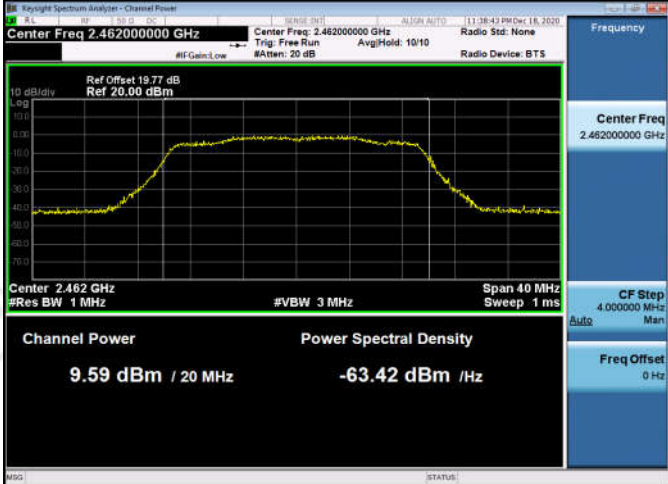
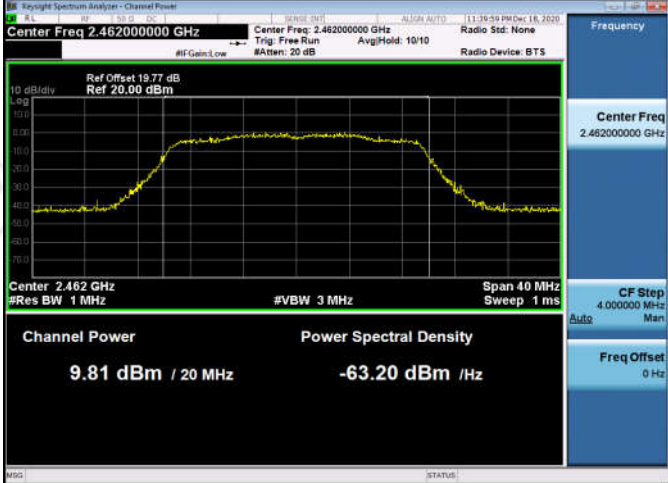
11G/LCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.6 dB Ref: 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power: 14.60 dBm / 20 MHz Power Spectral Density: -58.42 dBm / Hz Frequency: 2.412000000 GHz CF Step: 4.000000 MHz Auto: Man Freq Offset: 0 Hz
11G/LCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.6 dB Ref: 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power: 14.67 dBm / 20 MHz Power Spectral Density: -58.34 dBm / Hz Frequency: 2.412000000 GHz CF Step: 4.000000 MHz Auto: Man Freq Offset: 0 Hz
11G/MCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.77 dB Ref: 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power: 14.69 dBm / 20 MHz Power Spectral Density: -58.32 dBm / Hz Frequency: 2.437000000 GHz CF Step: 4.000000 MHz Auto: Man Freq Offset: 0 Hz

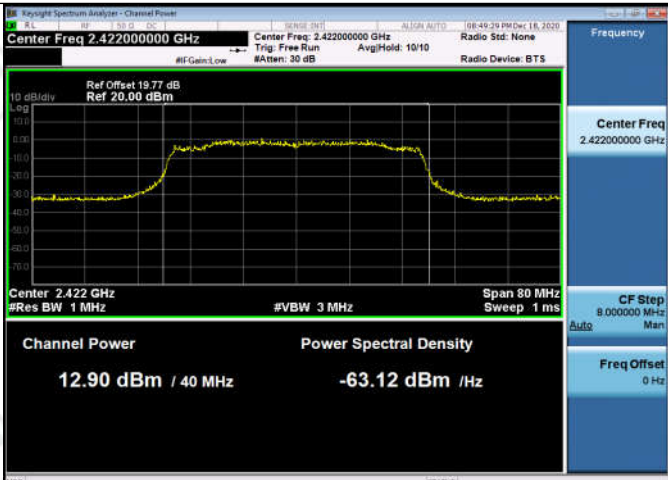
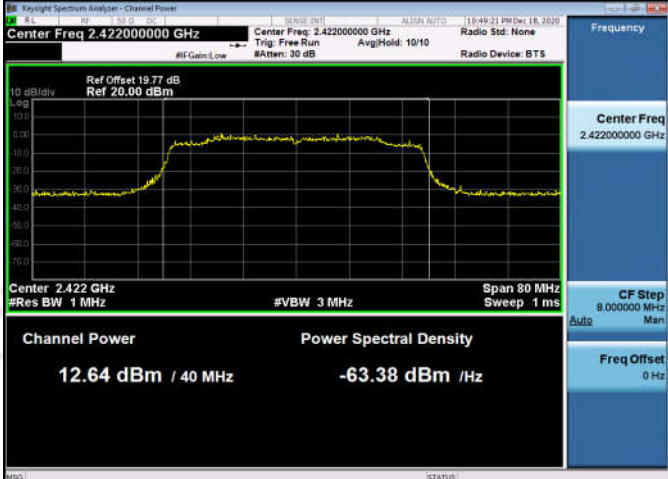
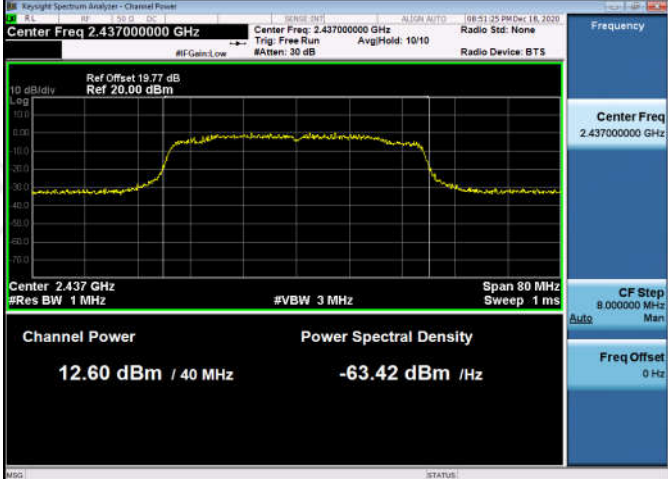
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11G/HCH_Ant1	
11G/HCH_Ant2	

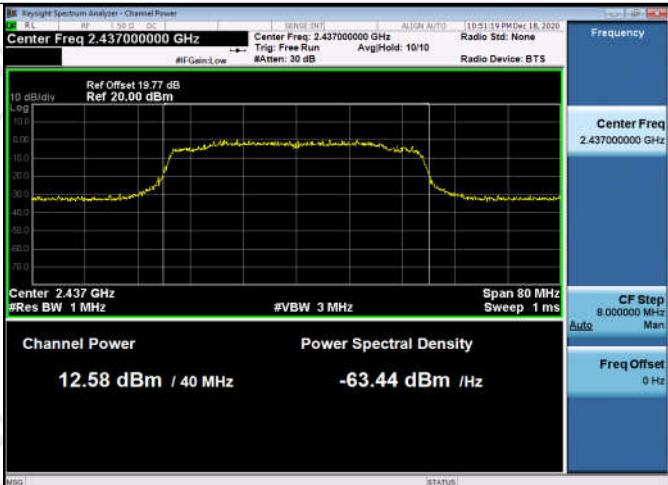
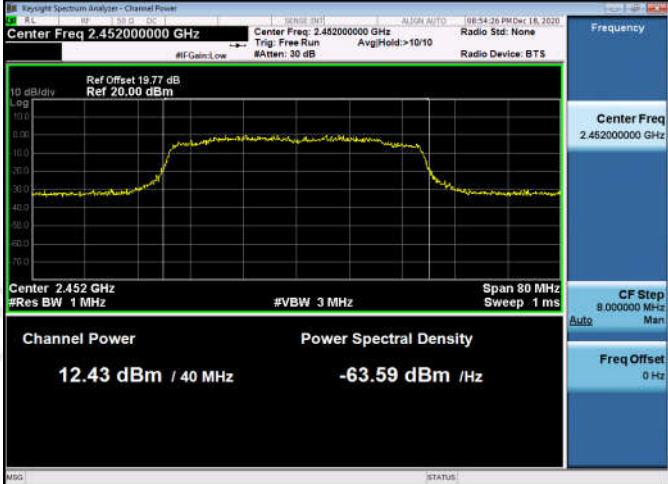
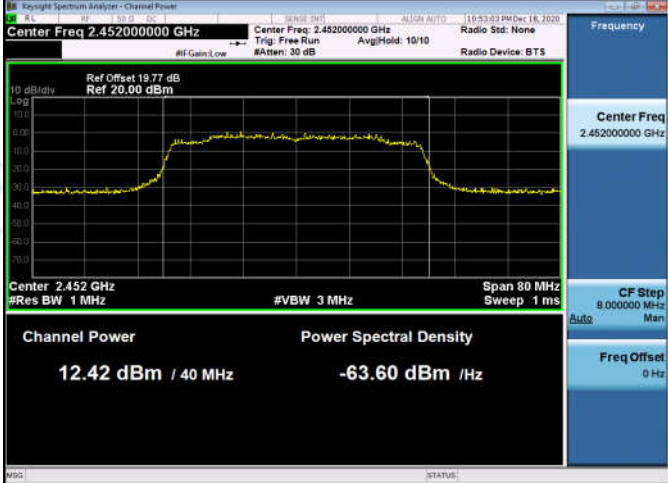
11N20SISO/LCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Ref Offset 19.6 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 14.14 dBm / 20 MHz Power Spectral Density -58.87 dBm / Hz Frequency Center Freq 2.412000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/LCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Ref Offset 19.6 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 13.05 dBm / 20 MHz Power Spectral Density -59.96 dBm / Hz Frequency Center Freq 2.412000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/MCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 14.26 dBm / 20 MHz Power Spectral Density -58.75 dBm / Hz Frequency Center Freq 2.437000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

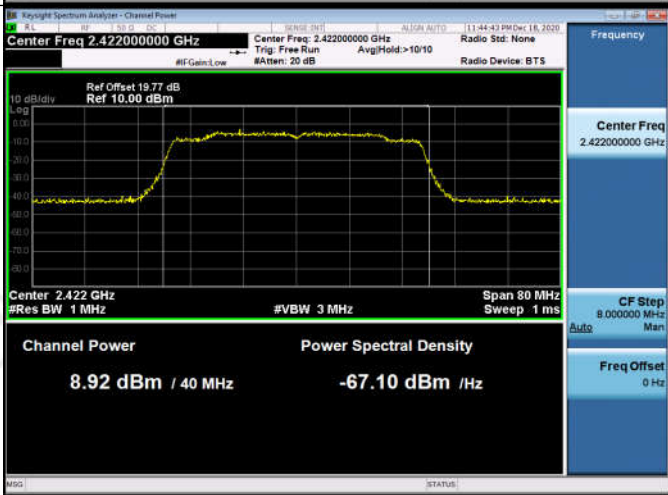
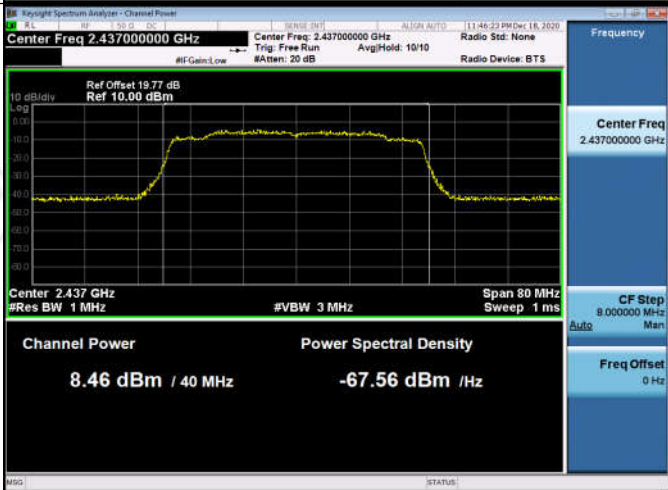
11N20SISO/MCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 13.42 dBm / 20 MHz Power Spectral Density -59.59 dBm / Hz Frequency Center Freq 2.437000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/HCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 13.76 dBm / 20 MHz Power Spectral Density -59.25 dBm / Hz Frequency Center Freq 2.462000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20SISO/HCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 12.97 dBm / 20 MHz Power Spectral Density -60.04 dBm / Hz Frequency Center Freq 2.462000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

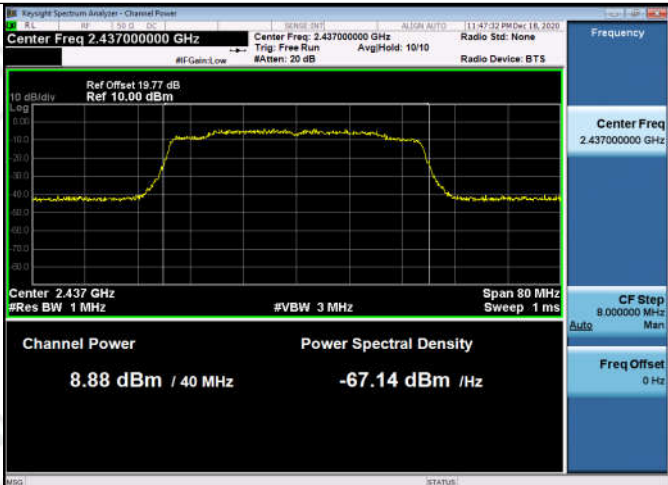
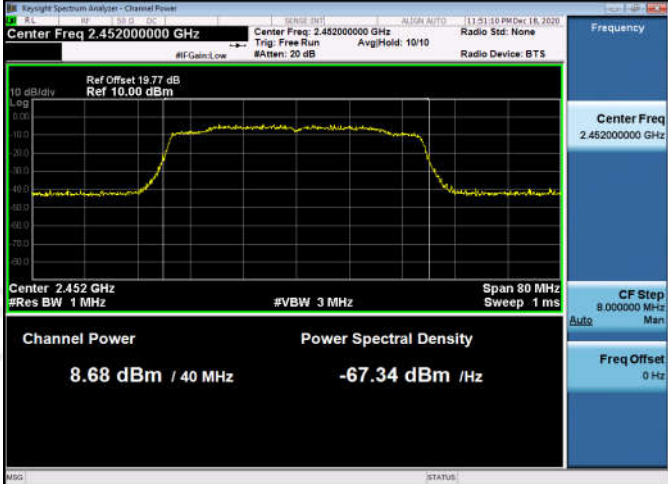
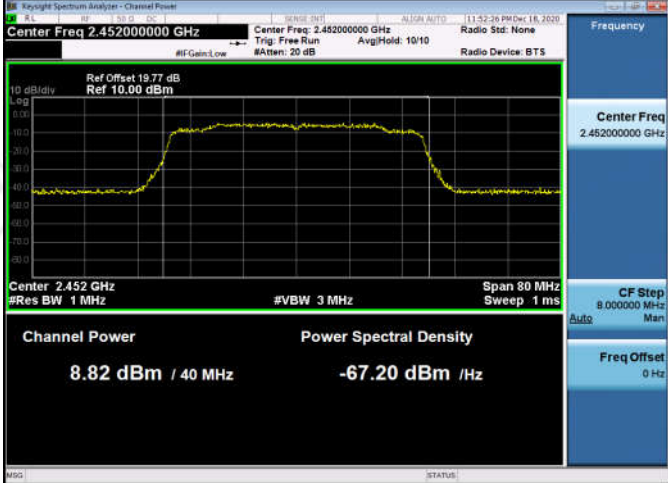
11N20MIMO/LCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.6 dB Ref: 10.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power: 10.42 dBm / 20 MHz Power Spectral Density: -62.59 dBm / Hz Frequency: 2.412000000 GHz CF Step: 4.000000 MHz Auto: Man Freq Offset: 0 Hz
11N20MIMO/LCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.412000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.6 dB Ref: 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power: 9.96 dBm / 20 MHz Power Spectral Density: -63.05 dBm / Hz Frequency: 2.412000000 GHz CF Step: 4.000000 MHz Auto: Man Freq Offset: 0 Hz
11N20MIMO/MCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.77 dB Ref: 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power: 10.23 dBm / 20 MHz Power Spectral Density: -62.78 dBm / Hz Frequency: 2.437000000 GHz CF Step: 4.000000 MHz Auto: Man Freq Offset: 0 Hz

11N20MIMO/MCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 10.20 dBm / 20 MHz Power Spectral Density -62.81 dBm /Hz Frequency Center Freq 2.437000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20MIMO/HCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 9.59 dBm / 20 MHz Power Spectral Density -63.42 dBm /Hz Frequency Center Freq 2.462000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11N20MIMO/HCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 9.81 dBm / 20 MHz Power Spectral Density -63.20 dBm /Hz Frequency Center Freq 2.462000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

11N40SISO/LCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 12.90 dBm / 40 MHz Power Spectral Density -63.12 dBm / Hz Frequency Center Freq 2.422000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/LCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 12.64 dBm / 40 MHz Power Spectral Density -63.38 dBm / Hz Frequency Center Freq 2.422000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/MCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 12.60 dBm / 40 MHz Power Spectral Density -63.42 dBm / Hz Frequency Center Freq 2.437000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz

11N40SISO/MCH_Ant2	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 12.58 dBm / 40 MHz Power Spectral Density -63.44 dBm / Hz
11N40SISO/HCH_Ant1	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 12.43 dBm / 40 MHz Power Spectral Density -63.59 dBm / Hz
11N40SISO/HCH_Ant2	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 12.42 dBm / 40 MHz Power Spectral Density -63.60 dBm / Hz

11N40MIMO/LCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.422000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.77 dB Ref: 20.00 dBm Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power: 9.44 dBm / 40 MHz Power Spectral Density: -66.59 dBm / Hz Frequency: 2.422000000 GHz CF Step: 8.000000 MHz Auto Man Freq Offset: 0 Hz
11N40MIMO/LCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.422000000 GHz Trig: Free Run Avg/Hold: >10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.77 dB Ref: 10.00 dBm Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power: 8.92 dBm / 40 MHz Power Spectral Density: -67.10 dBm / Hz Frequency: 2.422000000 GHz CF Step: 8.000000 MHz Auto Man Freq Offset: 0 Hz
11N40MIMO/MCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq: 2.437000000 GHz Trig: Free Run Avg/Hold: 10/10 Radio Std: None Radio Device: BTS Ref Offset: 19.77 dB Ref: 10.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power: 8.46 dBm / 40 MHz Power Spectral Density: -67.56 dBm / Hz Frequency: 2.437000000 GHz CF Step: 8.000000 MHz Auto Man Freq Offset: 0 Hz

11N40MIMO/MCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 10.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 8.88 dBm / 40 MHz Power Spectral Density -67.14 dBm / Hz Frequency Center Freq 2.437000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/HCH_Ant1	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 10.00 dBm Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 8.68 dBm / 40 MHz Power Spectral Density -67.34 dBm / Hz Frequency Center Freq 2.452000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/HCH_Ant2	 Keynote Spectrum Analyzer - Channel Power Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 10.00 dBm Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 80 MHz Sweep 1 ms Channel Power 8.82 dBm / 40 MHz Power Spectral Density -67.20 dBm / Hz Frequency Center Freq 2.452000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz

Appendix B): 6dB Occupied Bandwidth

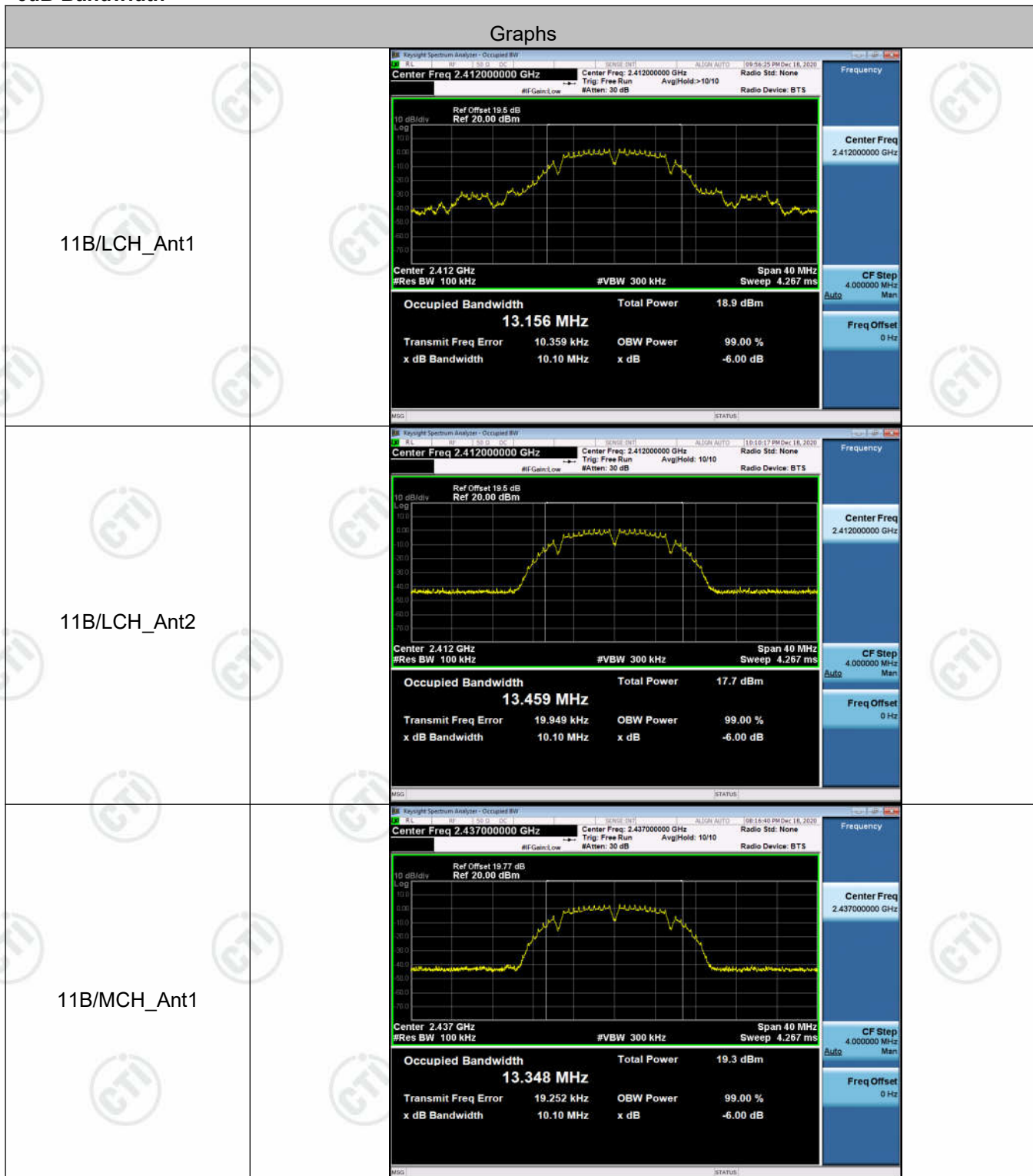
Result Table

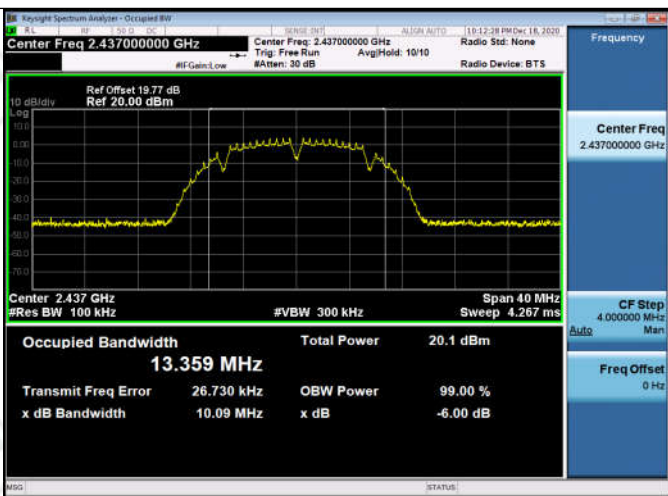
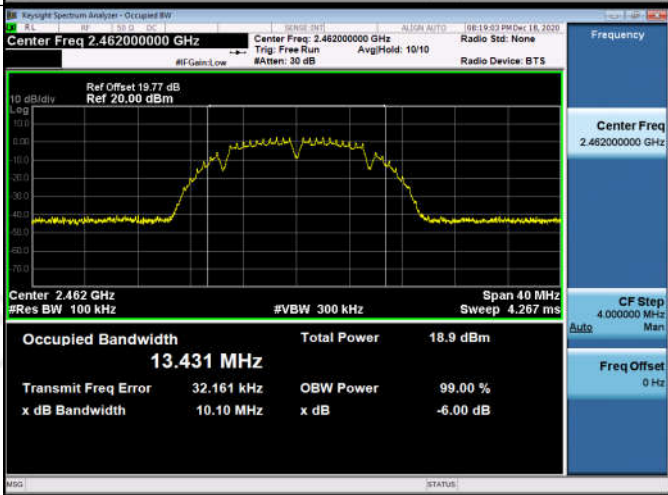
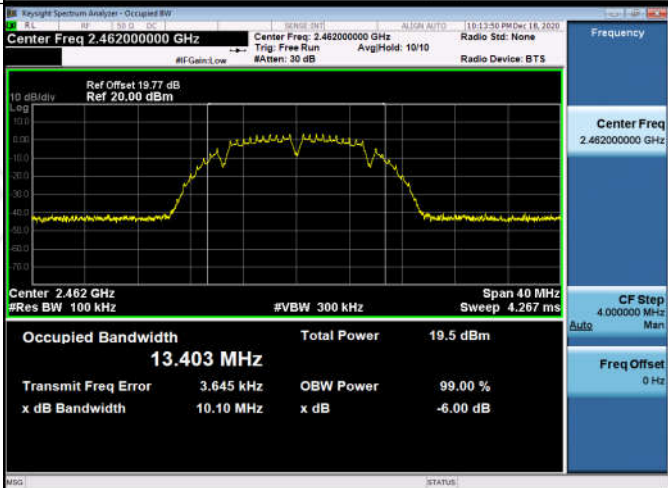
Mode	Antenna	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	Ant1	LCH	10.10	13.156	PASS
11B	Ant2	LCH	10.10	13.459	PASS
11B	Ant1	MCH	10.10	13.348	PASS
11B	Ant2	MCH	10.09	13.359	PASS
11B	Ant1	HCH	10.10	13.431	PASS
11B	Ant2	HCH	10.10	13.403	PASS
11G	Ant1	LCH	15.12	16.481	PASS
11G	Ant2	LCH	15.07	16.464	PASS
11G	Ant1	MCH	15.10	16.485	PASS
11G	Ant2	MCH	15.13	16.464	PASS
11G	Ant1	HCH	15.00	16.480	PASS
11G	Ant2	HCH	15.12	16.480	PASS
11N20SISO	Ant1	LCH	15.43	18.881	PASS
11N20SISO	Ant2	LCH	15.13	18.834	PASS
11N20SISO	Ant1	MCH	15.64	18.855	PASS
11N20SISO	Ant2	MCH	15.12	18.813	PASS
11N20SISO	Ant1	HCH	17.69	18.875	PASS
11N20SISO	Ant2	HCH	15.13	18.838	PASS
11N20MIMO	Ant1	LCH	18.36	18.911	PASS
11N20MIMO	Ant2	LCH	18.02	18.822	PASS
11N20MIMO	Ant1	MCH	17.83	18.806	PASS
11N20MIMO	Ant2	MCH	18.19	18.809	PASS
11N20MIMO	Ant1	HCH	18.19	18.814	PASS
11N20MIMO	Ant2	HCH	18.44	18.800	PASS
11N40SISO	Ant1	LCH	35.09	37.536	PASS
11N40SISO	Ant2	LCH	35.94	37.502	PASS
11N40SISO	Ant1	MCH	35.41	37.518	PASS
11N40SISO	Ant2	MCH	32.58	37.434	PASS
11N40SISO	Ant1	HCH	35.06	37.539	PASS
11N40SISO	Ant2	HCH	33.68	37.553	PASS
11N40MIMO	Ant1	LCH	36.33	37.588	PASS
11N40MIMO	Ant2	LCH	35.75	37.605	PASS

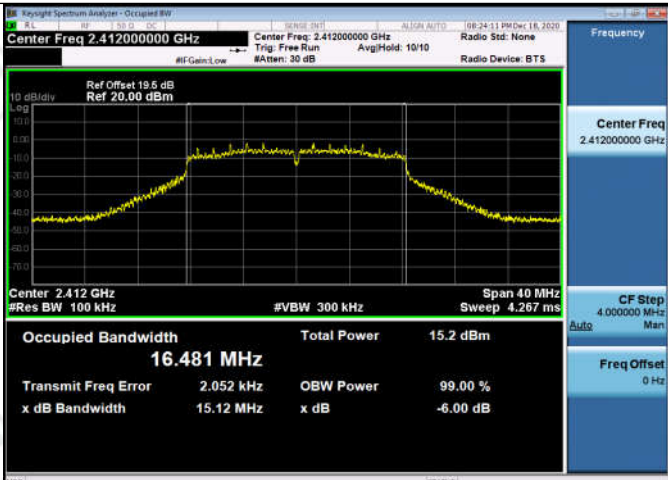
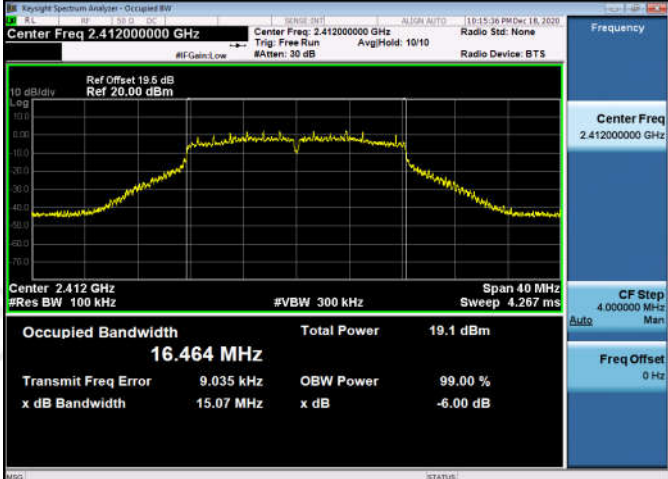
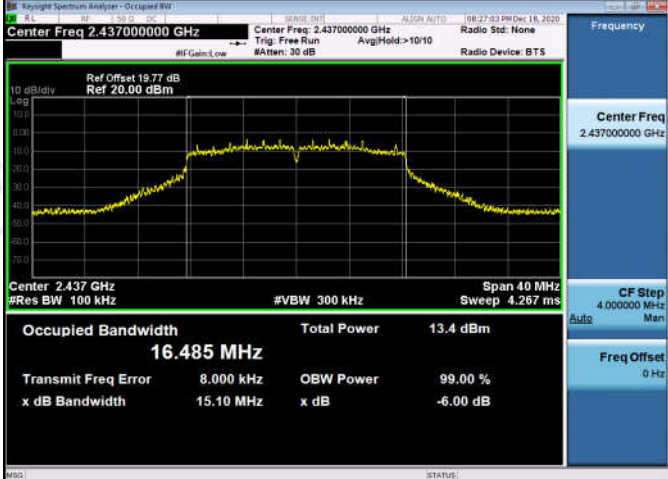
11N40MIMO	Ant1	MCH	34.66	37.642	PASS
11N40MIMO	Ant2	MCH	35.88	37.586	PASS
11N40MIMO	Ant1	HCH	35.73	37.626	PASS
11N40MIMO	Ant2	HCH	35.95	37.569	PASS

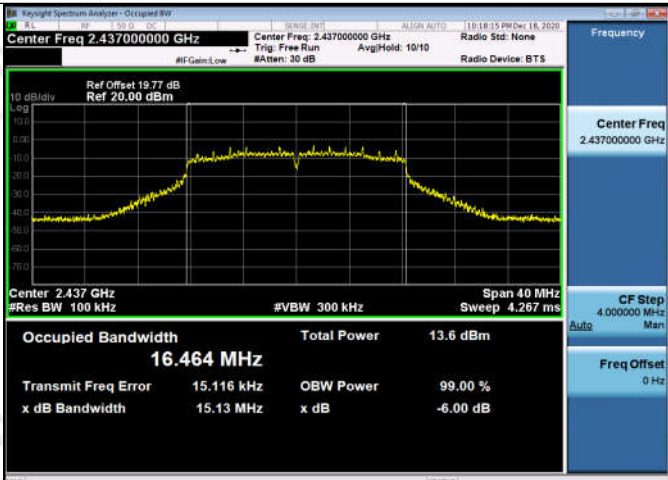
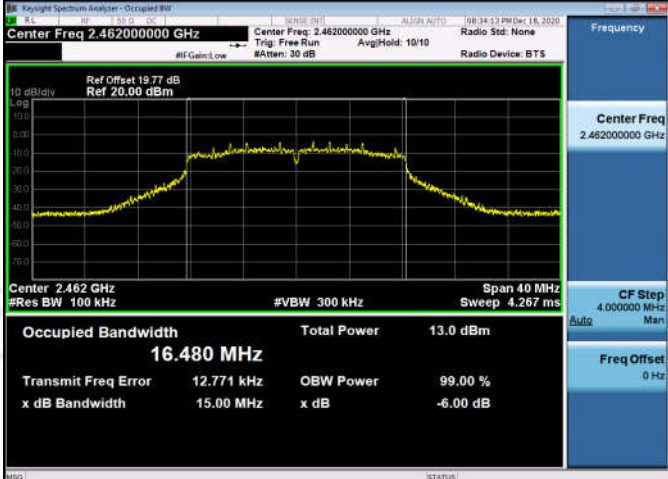
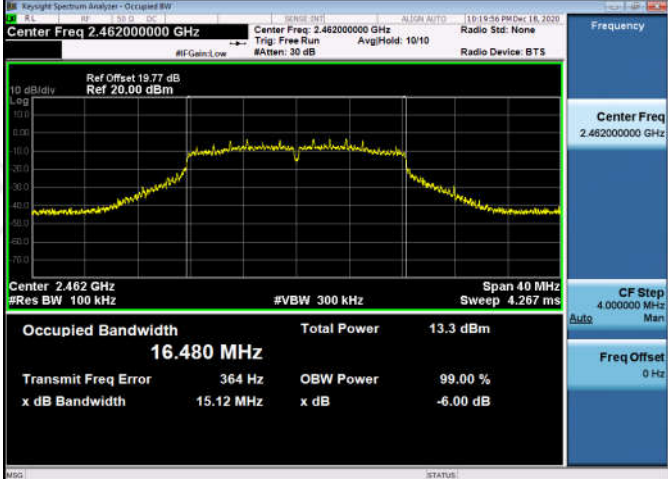
Test Graph

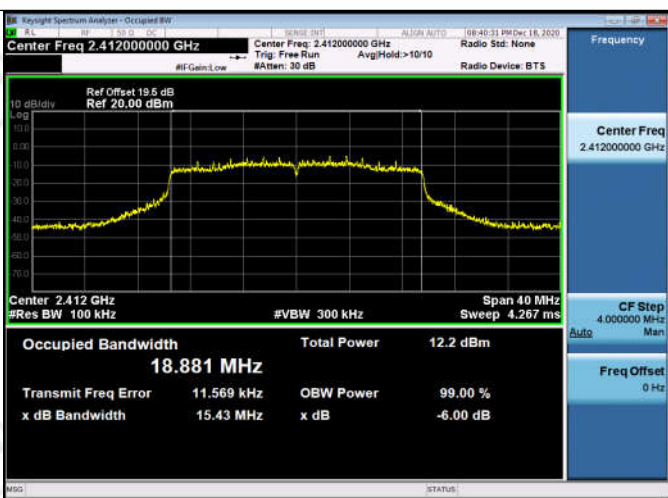
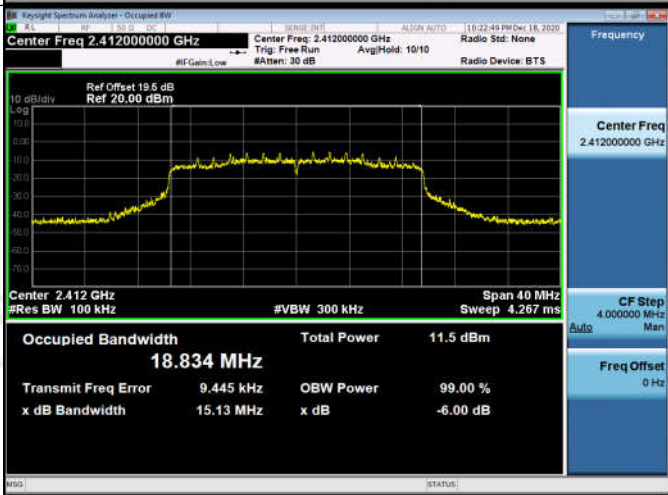
6dB Bandwidth

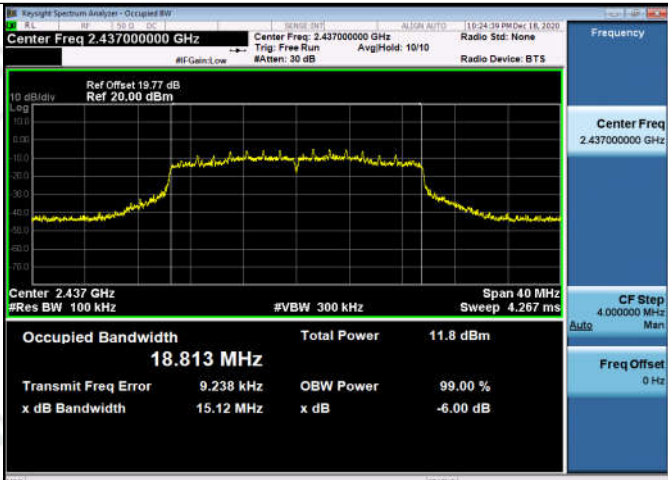
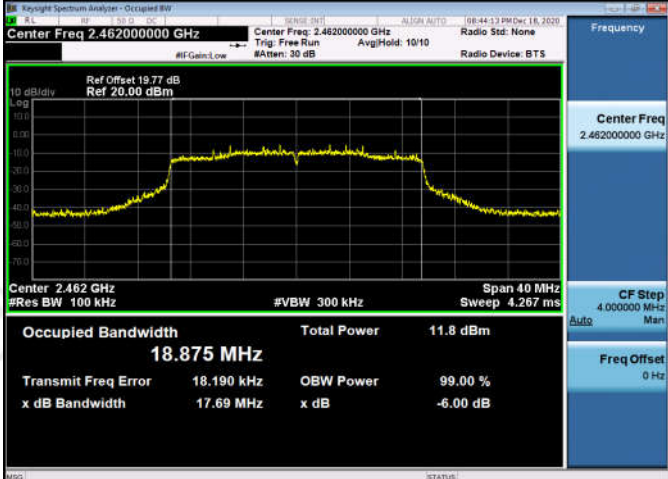
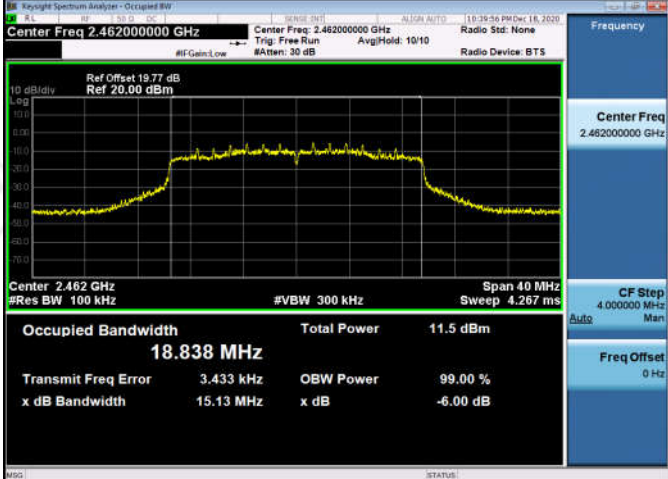


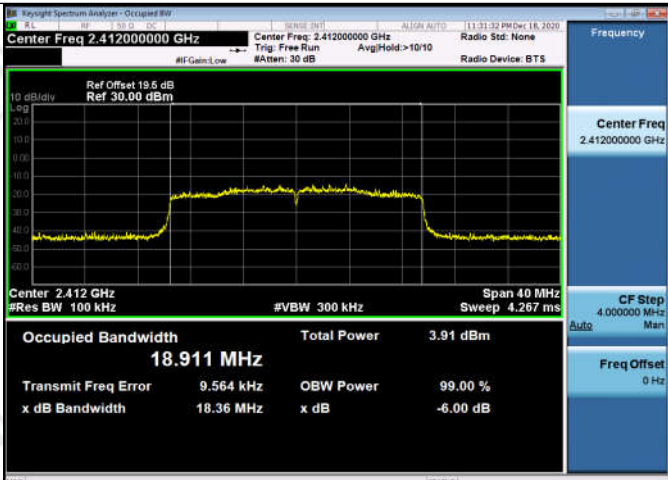
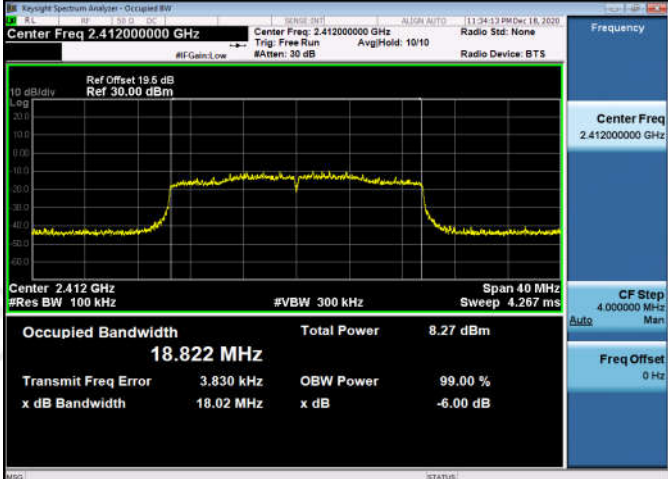
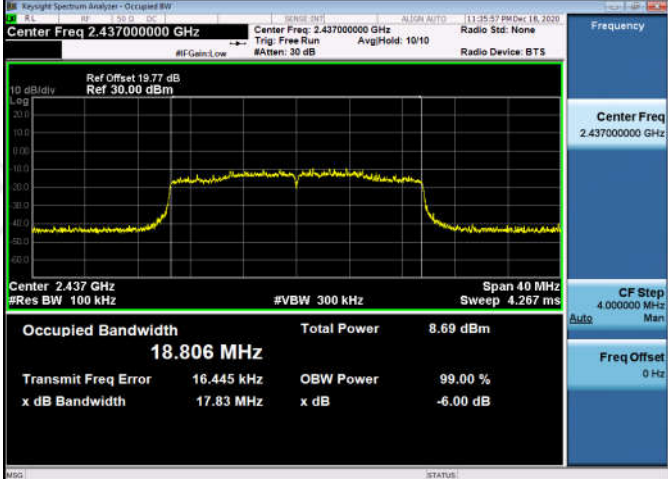
11B/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 13.359 MHz Total Power 20.1 dBm Transmit Freq Error 26.730 kHz OBW Power 99.00 % x dB Bandwidth 10.09 MHz x dB -6.00 dB
11B/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 13.431 MHz Total Power 18.9 dBm Transmit Freq Error 32.161 kHz OBW Power 99.00 % x dB Bandwidth 10.10 MHz x dB -6.00 dB
11B/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 13.403 MHz Total Power 19.5 dBm Transmit Freq Error 3.645 kHz OBW Power 99.00 % x dB Bandwidth 10.10 MHz x dB -6.00 dB

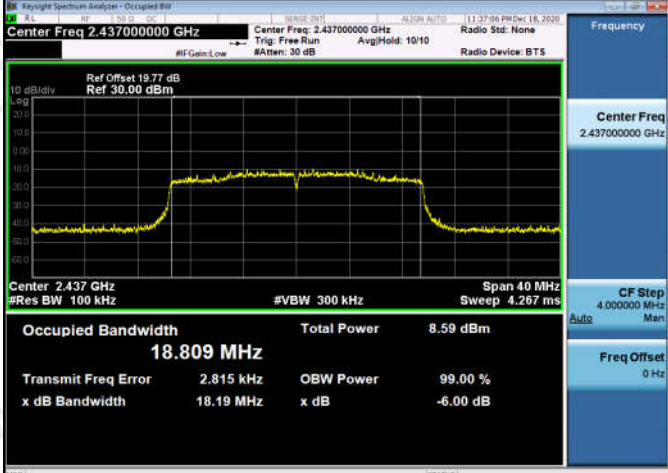
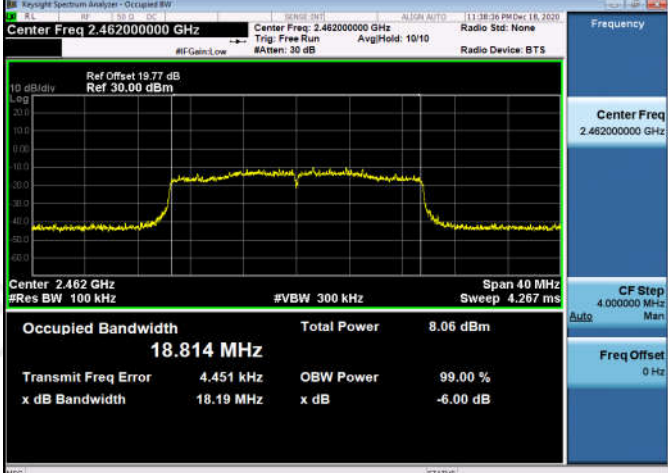
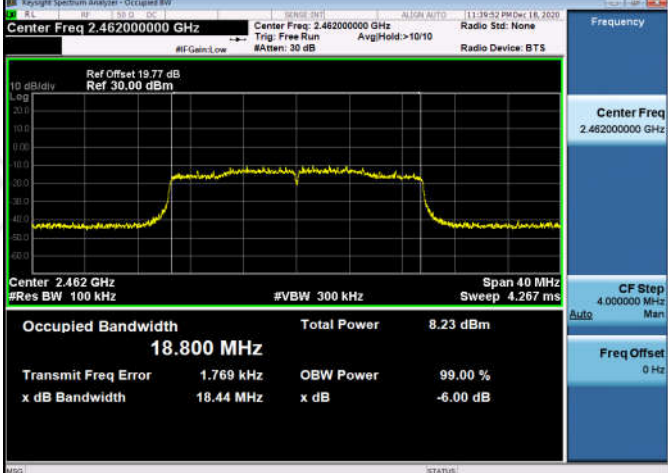
11G/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.481 MHz Total Power 15.2 dBm Transmit Freq Error 2.052 kHz OBW Power 99.00 % x dB Bandwidth 15.12 MHz x dB -6.00 dB
11G/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.464 MHz Total Power 19.1 dBm Transmit Freq Error 9.035 kHz OBW Power 99.00 % x dB Bandwidth 15.07 MHz x dB -6.00 dB
11G/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.485 MHz Total Power 13.4 dBm Transmit Freq Error 8.000 kHz OBW Power 99.00 % x dB Bandwidth 15.10 MHz x dB -6.00 dB

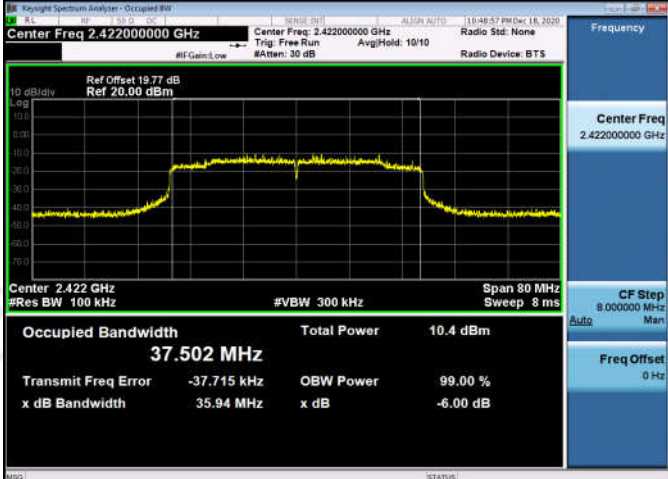
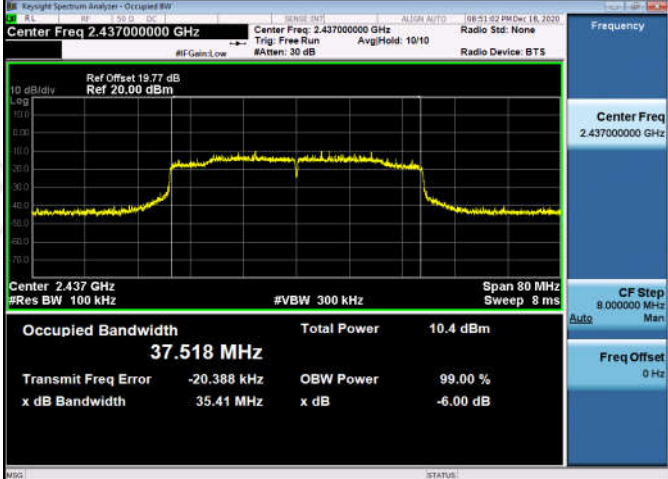
11G/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.464 MHz Total Power 13.6 dBm Transmit Freq Error 15.116 kHz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB
11G/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.480 MHz Total Power 13.0 dBm Transmit Freq Error 12.771 kHz OBW Power 99.00 % x dB Bandwidth 15.00 MHz x dB -6.00 dB
11G/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 16.480 MHz Total Power 13.3 dBm Transmit Freq Error 364 Hz OBW Power 99.00 % x dB Bandwidth 15.12 MHz x dB -6.00 dB

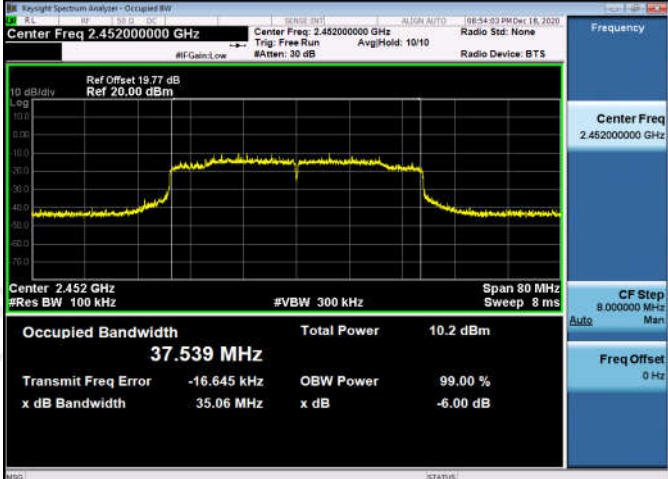
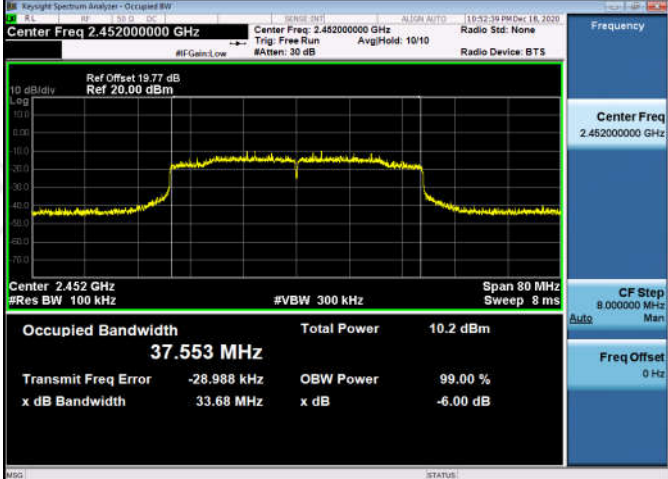
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11N20SISO/MCH_Ant1	

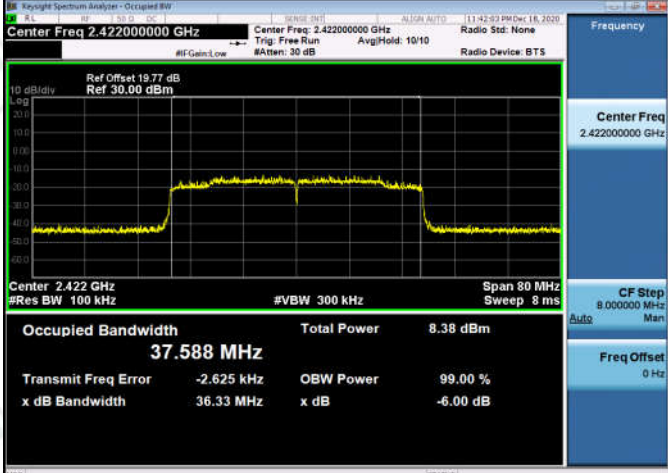
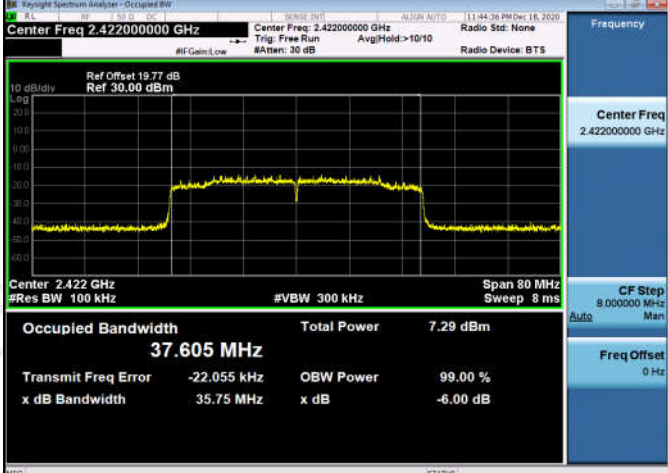
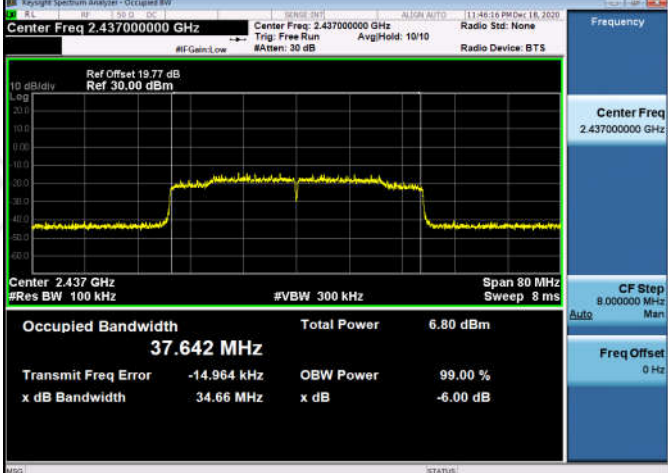
11N20SISO/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.813 MHz Total Power 11.8 dBm Transmit Freq Error 9.238 kHz OBW Power 99.00 % x dB Bandwidth 15.12 MHz x dB -6.00 dB
11N20SISO/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.875 MHz Total Power 11.8 dBm Transmit Freq Error 18.190 kHz OBW Power 99.00 % x dB Bandwidth 17.69 MHz x dB -6.00 dB
11N20SISO/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.838 MHz Total Power 11.5 dBm Transmit Freq Error 3.433 kHz OBW Power 99.00 % x dB Bandwidth 15.13 MHz x dB -6.00 dB

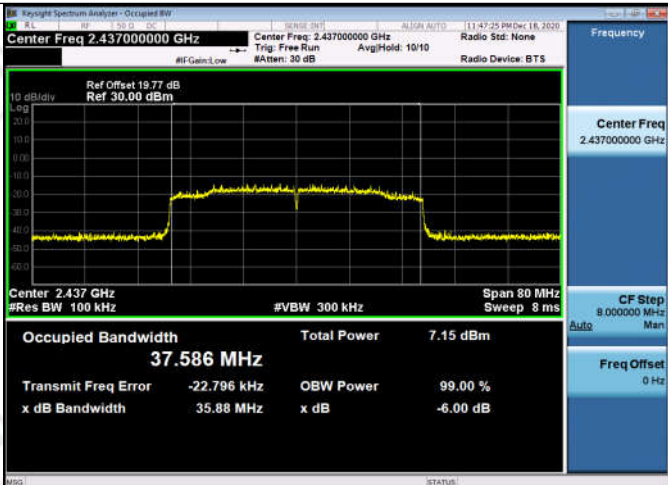
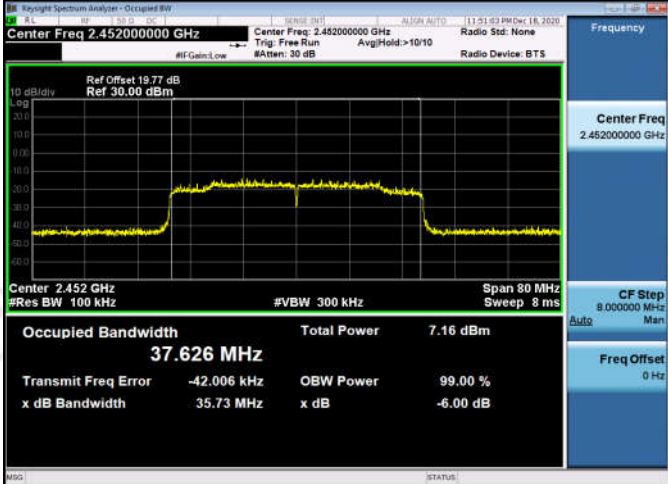
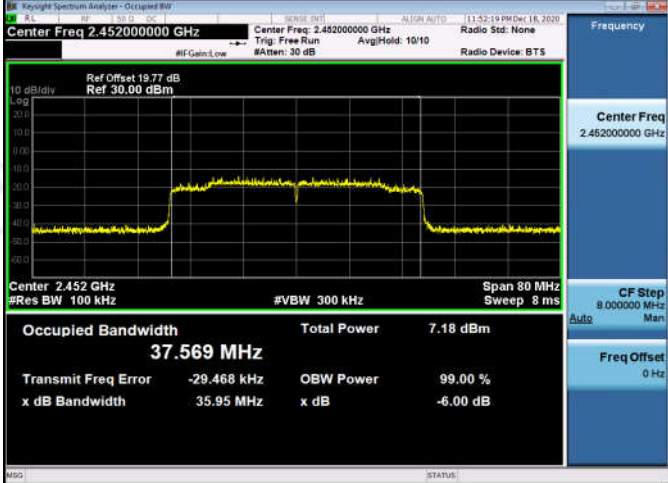
11N20MIMO/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.911 MHz Total Power 3.91 dBm Transmit Freq Error 9.564 kHz OBW Power 99.00 % x dB Bandwidth 18.36 MHz x dB -6.00 dB
11N20MIMO/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.822 MHz Total Power 8.27 dBm Transmit Freq Error 3.830 kHz OBW Power 99.00 % x dB Bandwidth 18.02 MHz x dB -6.00 dB
11N20MIMO/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.806 MHz Total Power 8.69 dBm Transmit Freq Error 16.445 kHz OBW Power 99.00 % x dB Bandwidth 17.83 MHz x dB -6.00 dB

11N20MIMO/MCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.809 MHz Total Power 8.59 dBm Transmit Freq Error 2.815 kHz OBW Power 99.00 % x dB Bandwidth 18.19 MHz x dB -6.00 dB Radio Device: BTS
11N20MIMO/HCH_Ant1	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.814 MHz Total Power 8.06 dBm Transmit Freq Error 4.451 kHz OBW Power 99.00 % x dB Bandwidth 18.19 MHz x dB -6.00 dB Radio Device: BTS
11N20MIMO/HCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 18.800 MHz Total Power 8.23 dBm Transmit Freq Error 1.769 kHz OBW Power 99.00 % x dB Bandwidth 18.44 MHz x dB -6.00 dB Radio Device: BTS

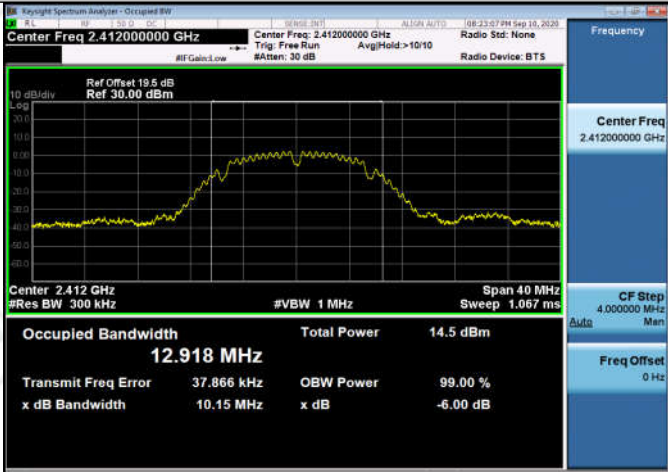
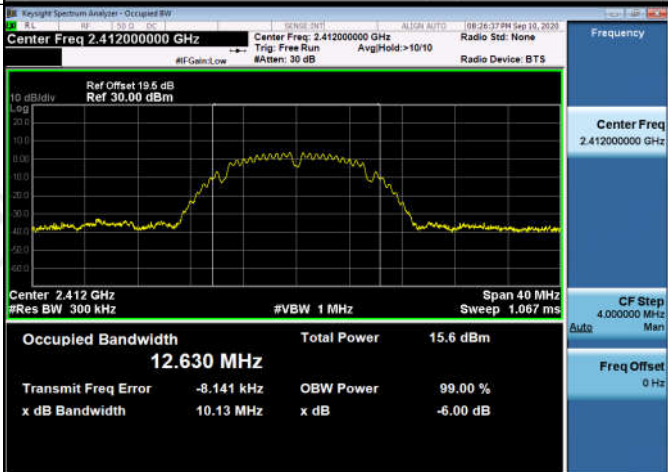
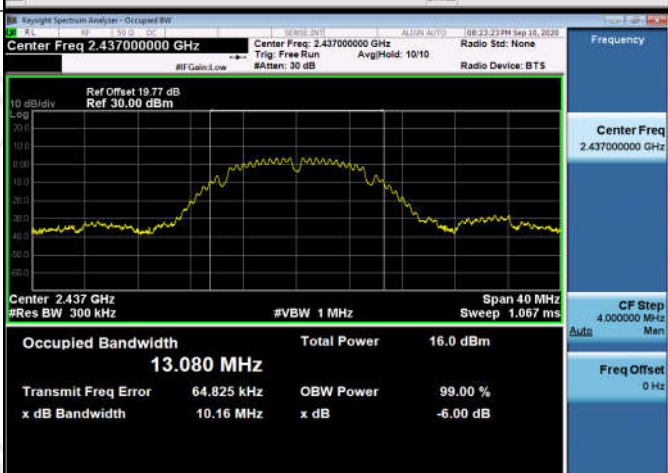
11N40SISO/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.536 MHz Total Power 10.6 dBm Transmit Freq Error -3.428 kHz OBW Power 99.00 % x dB Bandwidth 35.09 MHz x dB -6.00 dB CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.502 MHz Total Power 10.4 dBm Transmit Freq Error -37.715 kHz OBW Power 99.00 % x dB Bandwidth 35.94 MHz x dB -6.00 dB CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.518 MHz Total Power 10.4 dBm Transmit Freq Error -20.388 kHz OBW Power 99.00 % x dB Bandwidth 35.41 MHz x dB -6.00 dB CF Step 8.000000 MHz Freq Offset 0 Hz

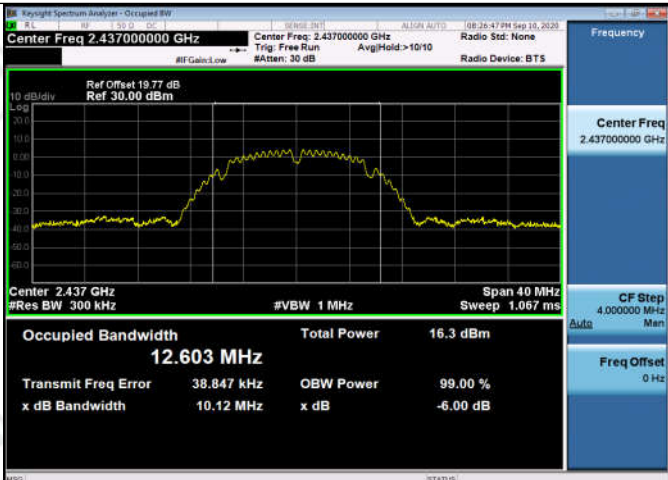
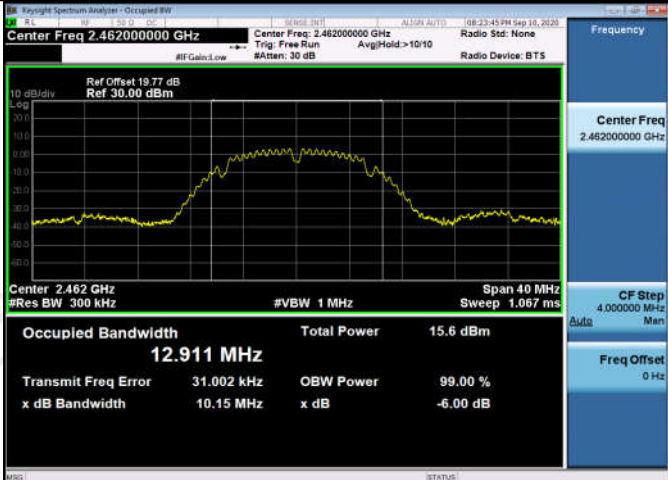
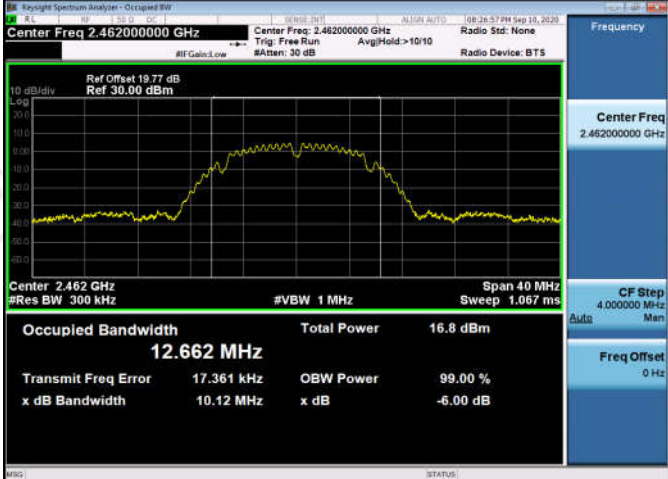
11N40SISO/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.434 MHz Total Power 10.4 dBm Transmit Freq Error -22.773 kHz OBW Power 99.00 % x dB Bandwidth 32.58 MHz x dB -6.00 dB
11N40SISO/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.539 MHz Total Power 10.2 dBm Transmit Freq Error -16.645 kHz OBW Power 99.00 % x dB Bandwidth 35.06 MHz x dB -6.00 dB
11N40SISO/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.553 MHz Total Power 10.2 dBm Transmit Freq Error -28.988 kHz OBW Power 99.00 % x dB Bandwidth 33.68 MHz x dB -6.00 dB

11N40MIMO/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.588 MHz Total Power 8.38 dBm Transmit Freq Error -2.625 kHz OBW Power 99.00 % x dB Bandwidth 36.33 MHz x dB -6.00 dB CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.605 MHz Total Power 7.29 dBm Transmit Freq Error -22.055 kHz OBW Power 99.00 % x dB Bandwidth 35.75 MHz x dB -6.00 dB CF Step 8.000000 MHz Freq Offset 0 Hz
11N40MIMO/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.642 MHz Total Power 6.80 dBm Transmit Freq Error -14.964 kHz OBW Power 99.00 % x dB Bandwidth 34.66 MHz x dB -6.00 dB CF Step 8.000000 MHz Freq Offset 0 Hz

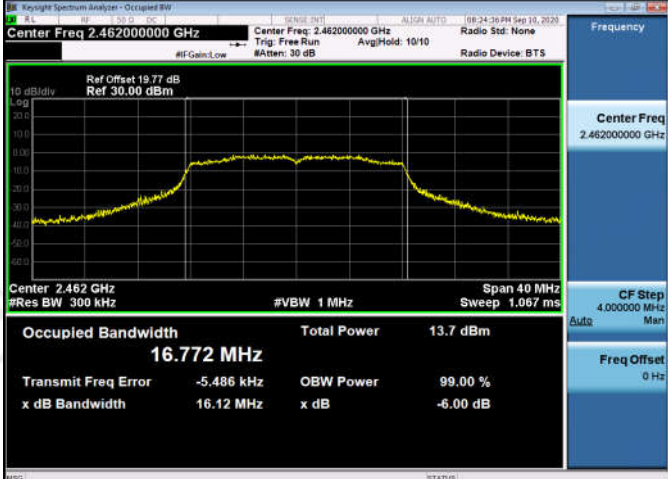
11N40MIMO/MCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.586 MHz Total Power 7.15 dBm Transmit Freq Error -22.796 kHz OBW Power 99.00 % x dB Bandwidth 35.88 MHz x dB -6.00 dB
11N40MIMO/HCH_Ant1	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.626 MHz Total Power 7.16 dBm Transmit Freq Error -42.006 kHz OBW Power 99.00 % x dB Bandwidth 35.73 MHz x dB -6.00 dB
11N40MIMO/HCH_Ant2	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 80 MHz Sweep 8 ms Occupied Bandwidth 37.569 MHz Total Power 7.18 dBm Transmit Freq Error -29.468 kHz OBW Power 99.00 % x dB Bandwidth 35.95 MHz x dB -6.00 dB

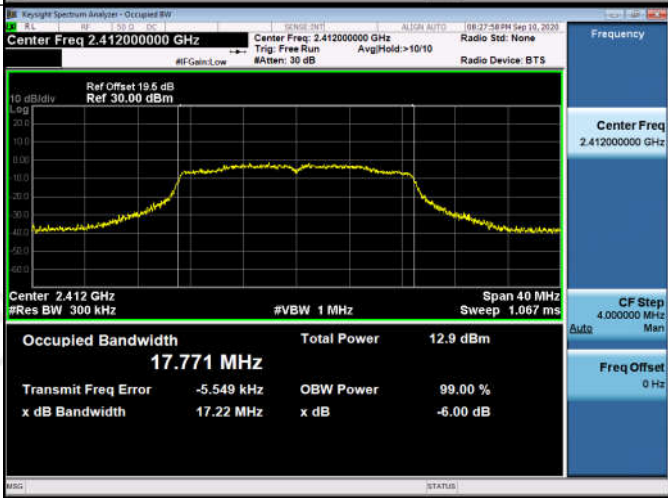
99% OBW

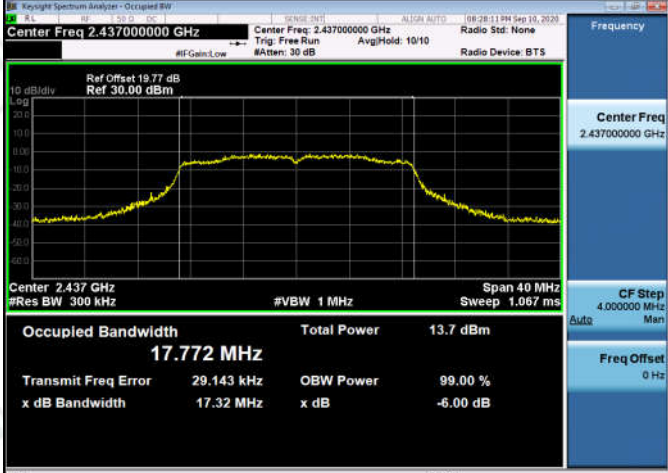
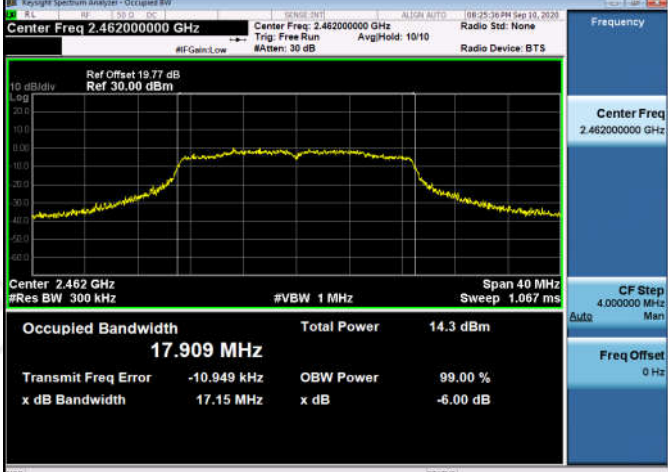
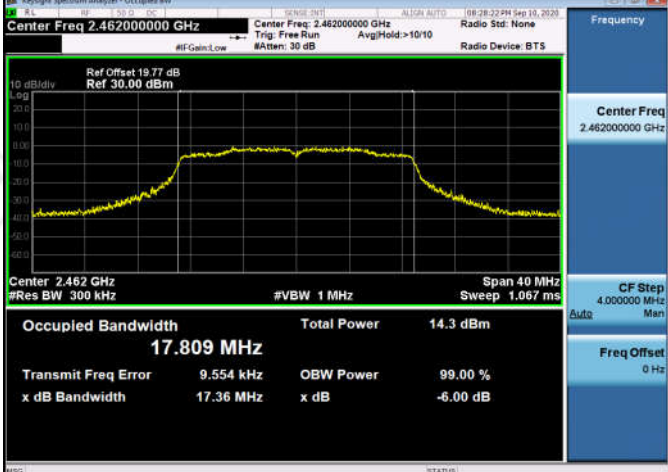
Graphs	
11B/LCH_Ant1	 Keygraph Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 12.918 MHz Total Power 14.5 dBm Transmit Freq Error 37.866 kHz OBW Power 99.00 % x dB Bandwidth 10.15 MHz x dB -6.00 dB
11B/LCH_Ant2	 Keygraph Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 12.630 MHz Total Power 15.6 dBm Transmit Freq Error -8.141 kHz OBW Power 99.00 % x dB Bandwidth 10.13 MHz x dB -6.00 dB
11B/MCH_Ant1	 Keygraph Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 13.080 MHz Total Power 16.0 dBm Transmit Freq Error 64.825 kHz OBW Power 99.00 % x dB Bandwidth 10.16 MHz x dB -6.00 dB

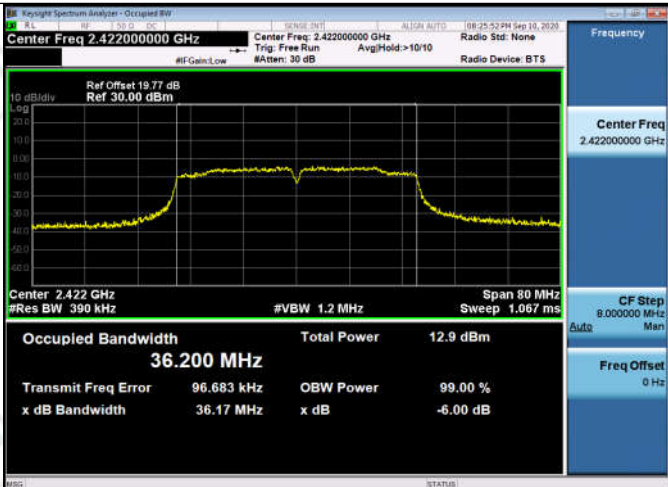
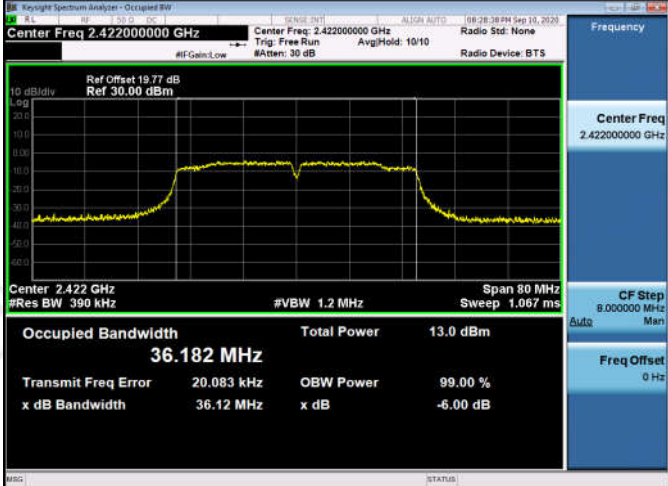
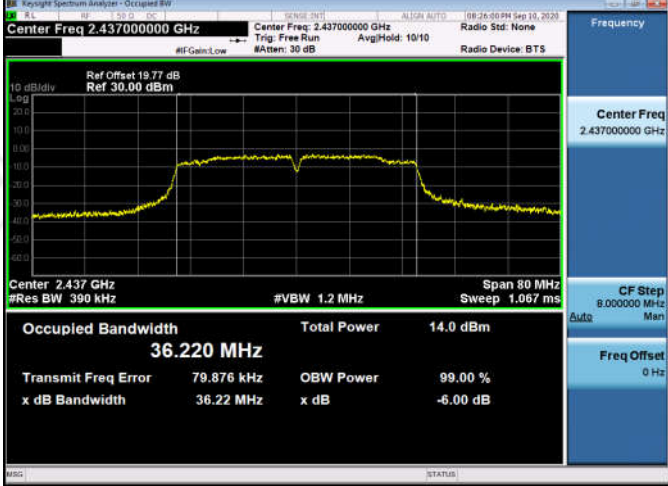
11B/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 12.603 MHz Total Power 16.3 dBm Transmit Freq Error 38.847 kHz OBW Power 99.00 % x dB Bandwidth 10.12 MHz x dB -6.00 dB CF Step 4.000000 MHz Freq Offset 0 Hz
11B/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 12.911 MHz Total Power 15.6 dBm Transmit Freq Error 31.002 kHz OBW Power 99.00 % x dB Bandwidth 10.15 MHz x dB -6.00 dB CF Step 4.000000 MHz Freq Offset 0 Hz
11B/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 12.662 MHz Total Power 16.8 dBm Transmit Freq Error 17.361 kHz OBW Power 99.00 % x dB Bandwidth 10.12 MHz x dB -6.00 dB CF Step 4.000000 MHz Freq Offset 0 Hz

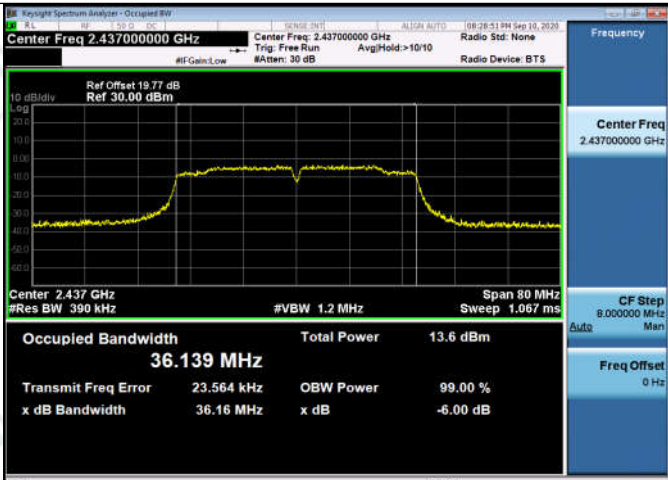
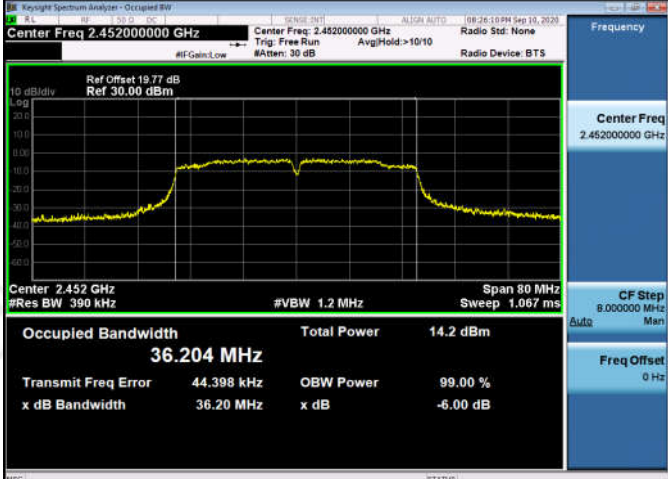
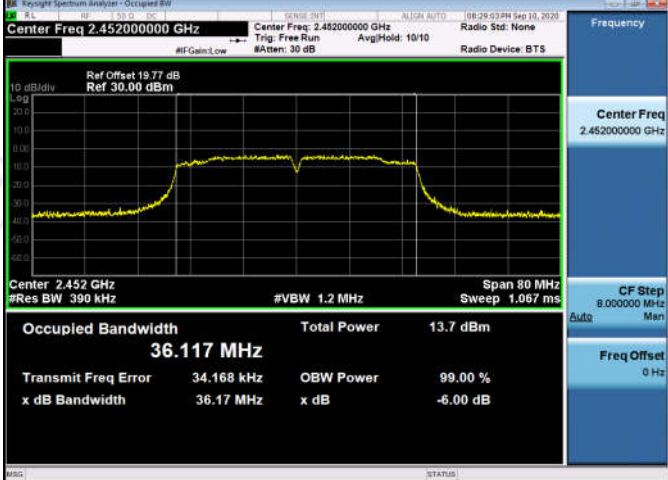
11G/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 16.722 MHz Total Power 12.5 dBm Transmit Freq Error 62.952 kHz OBW Power 99.00 % x dB Bandwidth 16.08 MHz x dB -6.00 dB
11G/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 16.624 MHz Total Power 13.0 dBm Transmit Freq Error -25.827 kHz OBW Power 99.00 % x dB Bandwidth 16.02 MHz x dB -6.00 dB
11G/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 16.759 MHz Total Power 13.5 dBm Transmit Freq Error 58.780 kHz OBW Power 99.00 % x dB Bandwidth 16.18 MHz x dB -6.00 dB

11G/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 16.647 MHz Total Power 13.7 dBm Transmit Freq Error 31.077 kHz OBW Power 99.00 % x dB Bandwidth 16.12 MHz x dB -6.00 dB
11G/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 16.772 MHz Total Power 13.7 dBm Transmit Freq Error -5.486 kHz OBW Power 99.00 % x dB Bandwidth 16.12 MHz x dB -6.00 dB
11G/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 16.640 MHz Total Power 14.4 dBm Transmit Freq Error -16.603 kHz OBW Power 99.00 % x dB Bandwidth 16.04 MHz x dB -6.00 dB

11N20SISO/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset: 19.6 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 17.832 MHz Total Power 12.4 dBm Transmit Freq Error 61.926 kHz OBW Power 99.00 % x dB Bandwidth 17.36 MHz x dB -6.00 dB
11N20SISO/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset: 19.6 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 17.771 MHz Total Power 12.9 dBm Transmit Freq Error -5.549 kHz OBW Power 99.00 % x dB Bandwidth 17.22 MHz x dB -6.00 dB
11N20SISO/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset: 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 17.926 MHz Total Power 14.1 dBm Transmit Freq Error 65.600 kHz OBW Power 99.00 % x dB Bandwidth 17.40 MHz x dB -6.00 dB

11N20SISO/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 17.772 MHz Total Power 13.7 dBm Transmit Freq Error 29.143 kHz OBW Power 99.00 % x dB Bandwidth 17.32 MHz x dB -6.00 dB
11N20SISO/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 17.909 MHz Total Power 14.3 dBm Transmit Freq Error -10.949 kHz OBW Power 99.00 % x dB Bandwidth 17.15 MHz x dB -6.00 dB
11N20SISO/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.462000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Span 40 MHz Sweep 1.067 ms Occupied Bandwidth 17.809 MHz Total Power 14.3 dBm Transmit Freq Error 9.554 kHz OBW Power 99.00 % x dB Bandwidth 17.36 MHz x dB -6.00 dB

11N40SISO/LCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.422 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms Occupied Bandwidth 36.200 MHz Total Power 12.9 dBm Transmit Freq Error 96.683 kHz OBW Power 99.00 % x dB Bandwidth 36.17 MHz x dB -6.00 dB
11N40SISO/LCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.422 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms Occupied Bandwidth 36.182 MHz Total Power 13.0 dBm Transmit Freq Error 20.083 kHz OBW Power 99.00 % x dB Bandwidth 36.12 MHz x dB -6.00 dB
11N40SISO/MCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms Occupied Bandwidth 36.220 MHz Total Power 14.0 dBm Transmit Freq Error 79.876 kHz OBW Power 99.00 % x dB Bandwidth 36.22 MHz x dB -6.00 dB

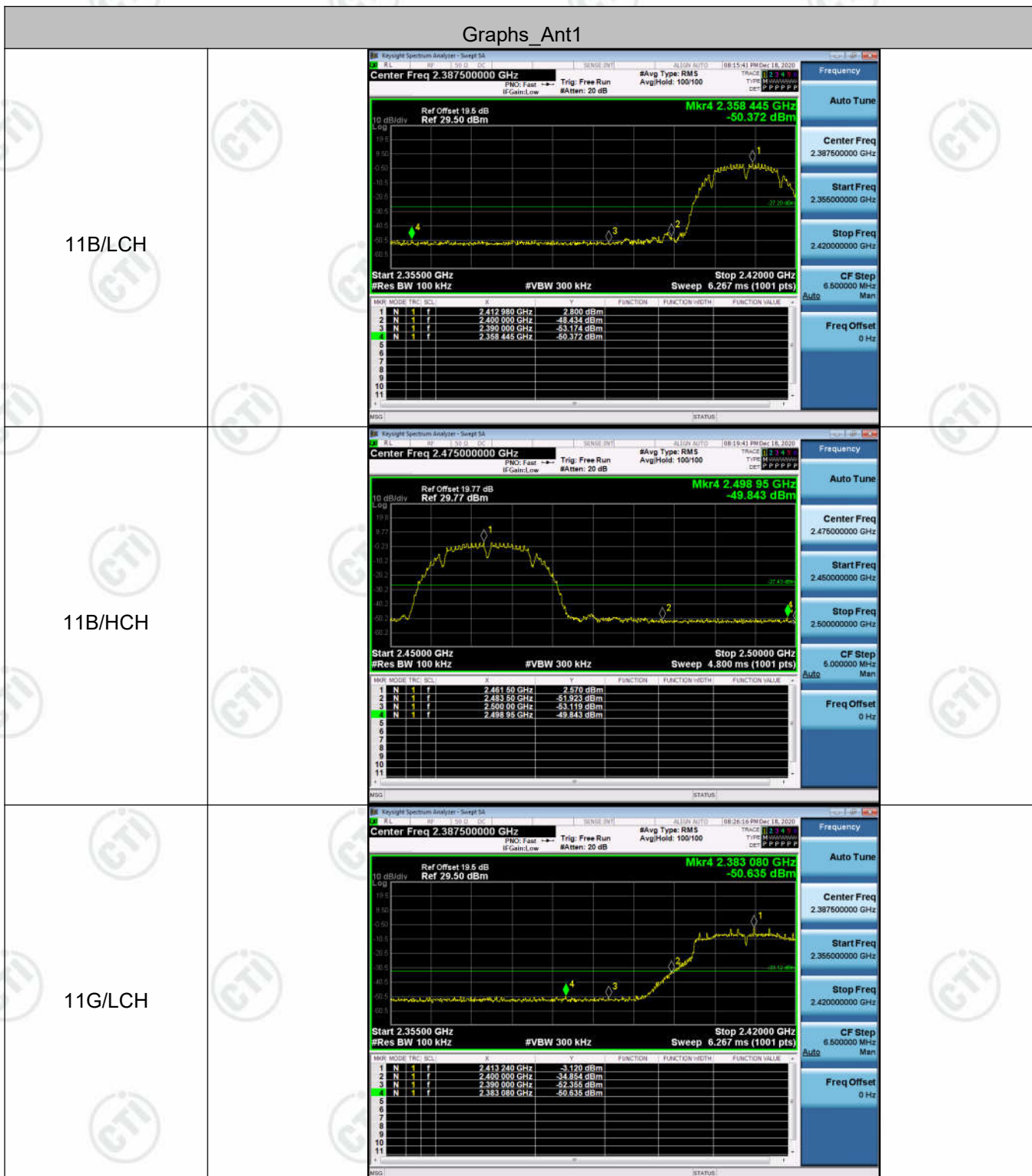
11N40SISO/MCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms Occupied Bandwidth 36.139 MHz Total Power 13.6 dBm Transmit Freq Error 23.564 kHz OBW Power 99.00 % x dB Bandwidth 36.16 MHz x dB -6.00 dB
11N40SISO/HCH_Ant1	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.452 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms Occupied Bandwidth 36.204 MHz Total Power 14.2 dBm Transmit Freq Error 44.398 kHz OBW Power 99.00 % x dB Bandwidth 36.20 MHz x dB -6.00 dB
11N40SISO/HCH_Ant2	 Keynote Spectrum Analyzer - Occupied BW Center Freq 2.452000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.452 GHz #Res BW 390 kHz #VBW 1.2 MHz Span 80 MHz Sweep 1.067 ms Occupied Bandwidth 36.117 MHz Total Power 13.7 dBm Transmit Freq Error 34.168 kHz OBW Power 99.00 % x dB Bandwidth 36.17 MHz x dB -6.00 dB

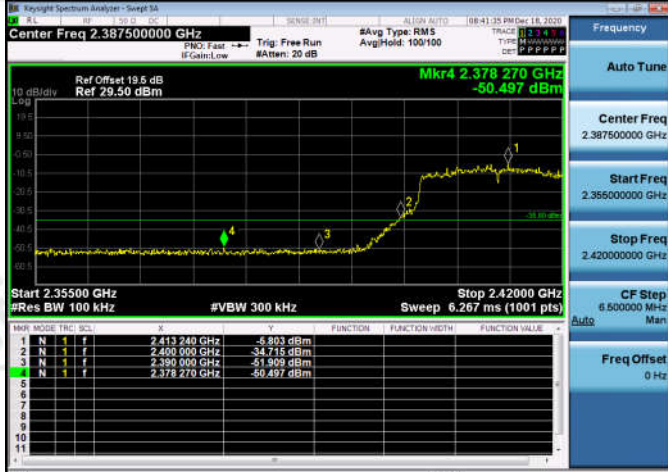
Appendix C): Band-edge for RF Conducted Emissions

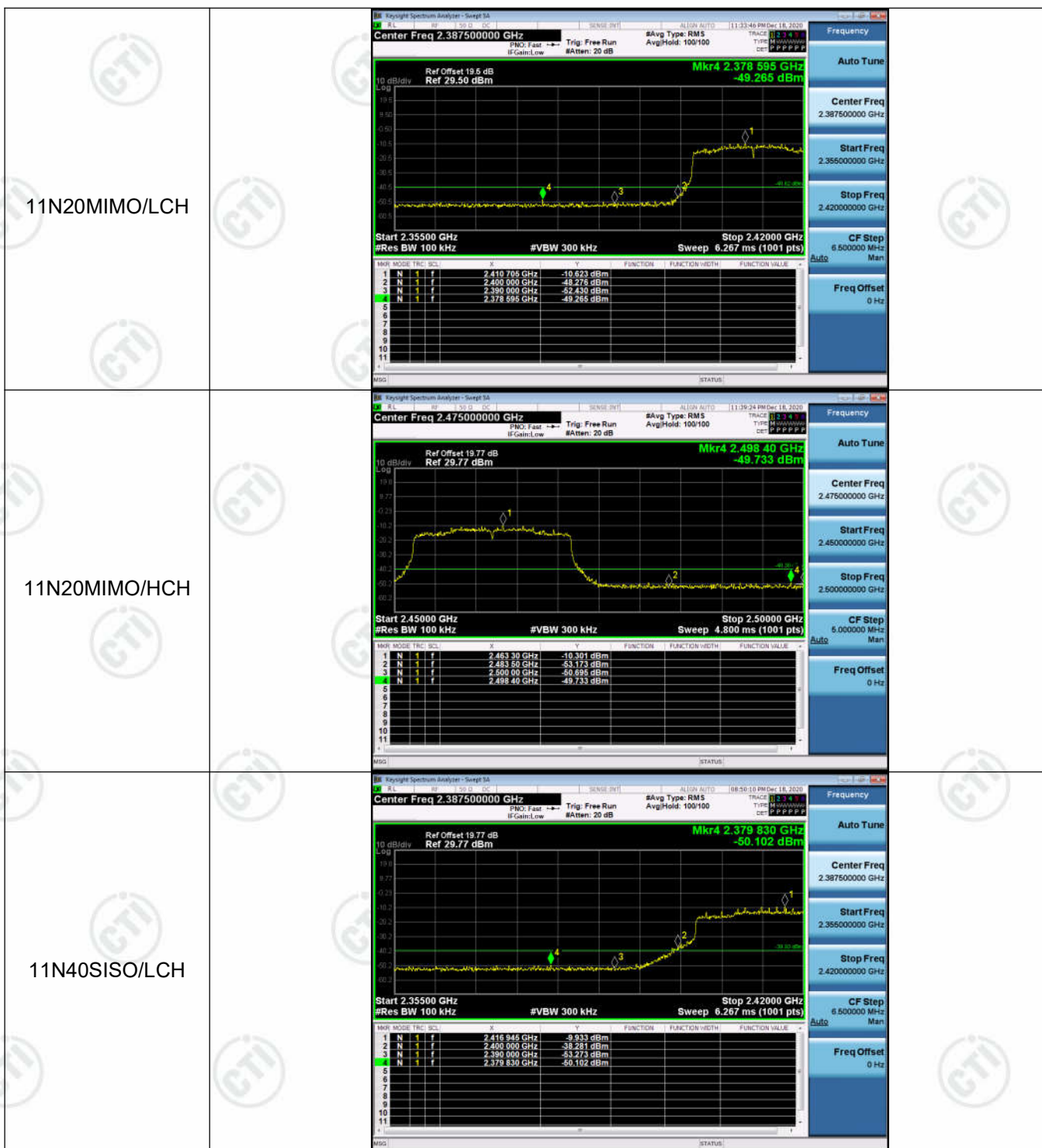
Result Table

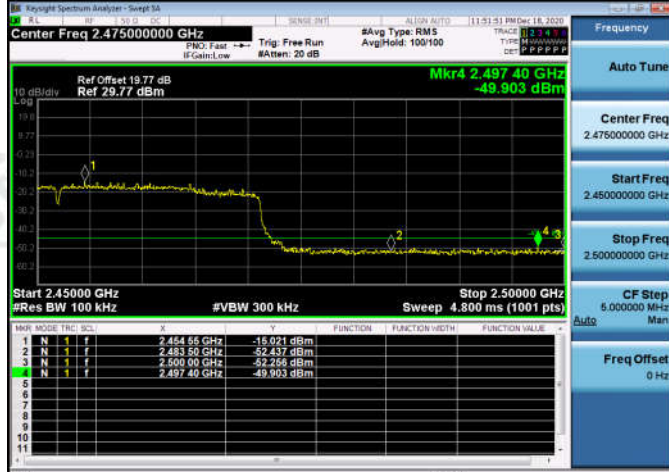
Mode	Antenna	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Ant1	LCH	2.800	-50.372	-27.2	PASS
11B	Ant2	LCH	3.247	-50.478	-26.75	PASS
11B	Ant1	HCH	2.570	-49.843	-27.43	PASS
11B	Ant2	HCH	3.287	-49.766	-26.71	PASS
11G	Ant1	LCH	-3.120	-50.635	-33.12	PASS
11G	Ant2	LCH	-3.382	-50.607	-33.38	PASS
11G	Ant1	HCH	-3.346	-50.163	-33.35	PASS
11G	Ant2	HCH	-3.763	-49.420	-33.76	PASS
11N20SISO	Ant1	LCH	-5.803	-50.497	-35.8	PASS
11N20SISO	Ant2	LCH	-5.421	-50.151	-35.42	PASS
11N20SISO	Ant1	HCH	-4.864	-49.965	-34.86	PASS
11N20SISO	Ant2	HCH	-5.500	-50.388	-35.5	PASS
11N20MIMO	Ant1	LCH	-10.623	-49.265	-40.62	PASS
11N20MIMO	Ant2	LCH	-9.965	-49.377	-39.97	PASS
11N20MIMO	Ant1	HCH	-10.301	-49.733	-40.3	PASS
11N20MIMO	Ant2	HCH	-10.054	-50.170	-40.05	PASS
11N40SISO	Ant1	LCH	-9.933	-50.102	-39.93	PASS
11N40SISO	Ant2	LCH	-10.055	-50.502	-40.06	PASS
11N40SISO	Ant1	HCH	-10.182	-49.580	-40.18	PASS
11N40SISO	Ant2	HCH	-11.228	-49.905	-41.23	PASS
11N40MIMO	Ant1	LCH	-14.734	-49.899	-44.73	PASS
11N40MIMO	Ant2	LCH	-14.261	-50.504	-44.26	PASS
11N40MIMO	Ant1	HCH	-15.021	-49.903	-45.02	PASS
11N40MIMO	Ant2	HCH	-14.648	-49.636	-44.65	PASS

Test Graph

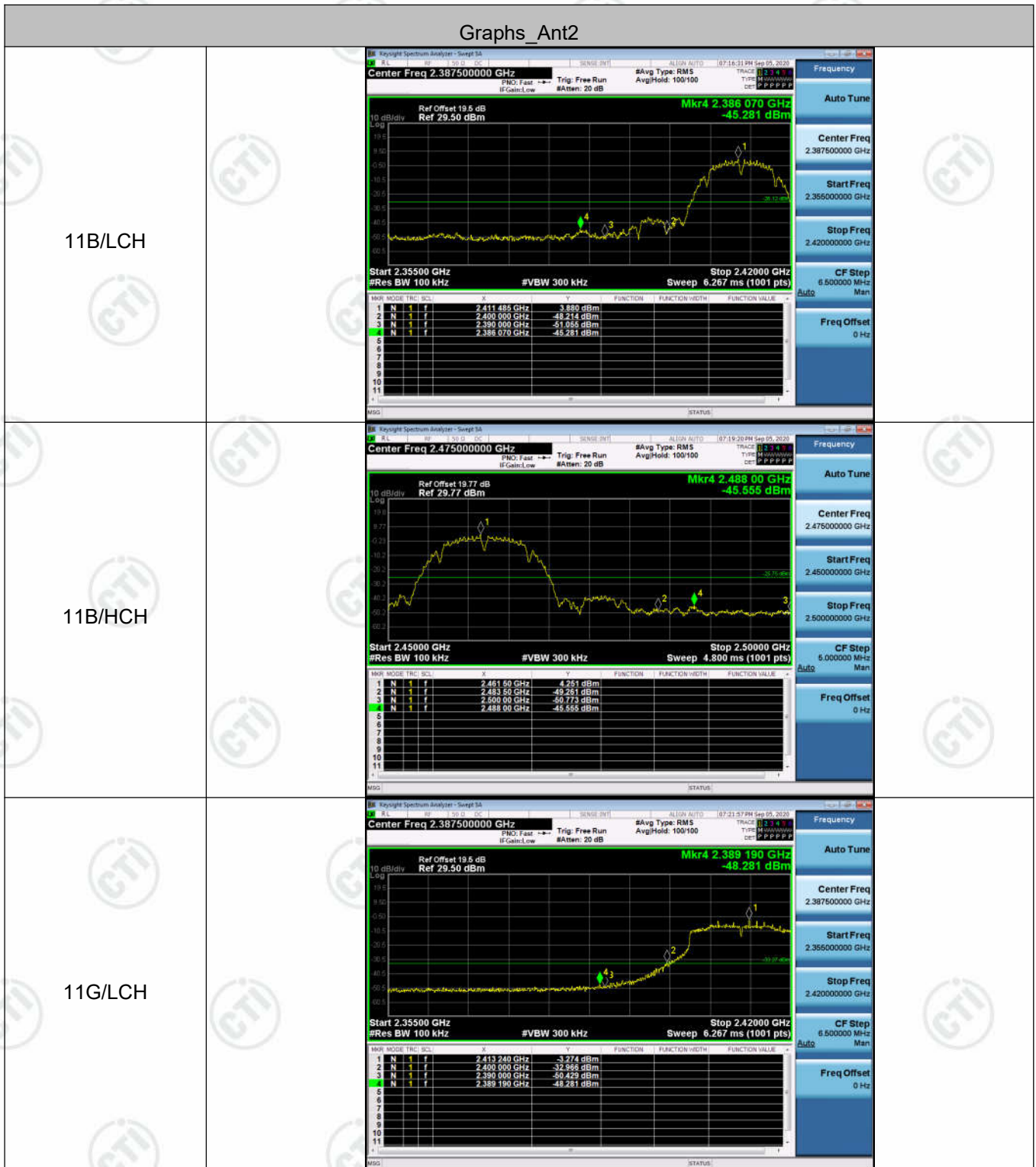


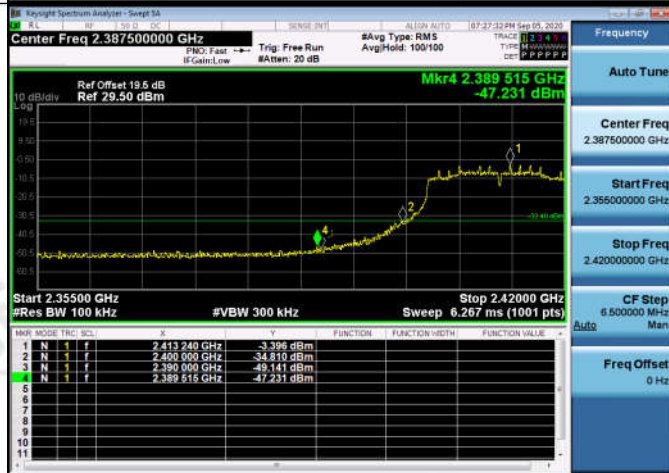
11G/HCH	
11N20SISO/LCH	
11N20SISO/HCH	

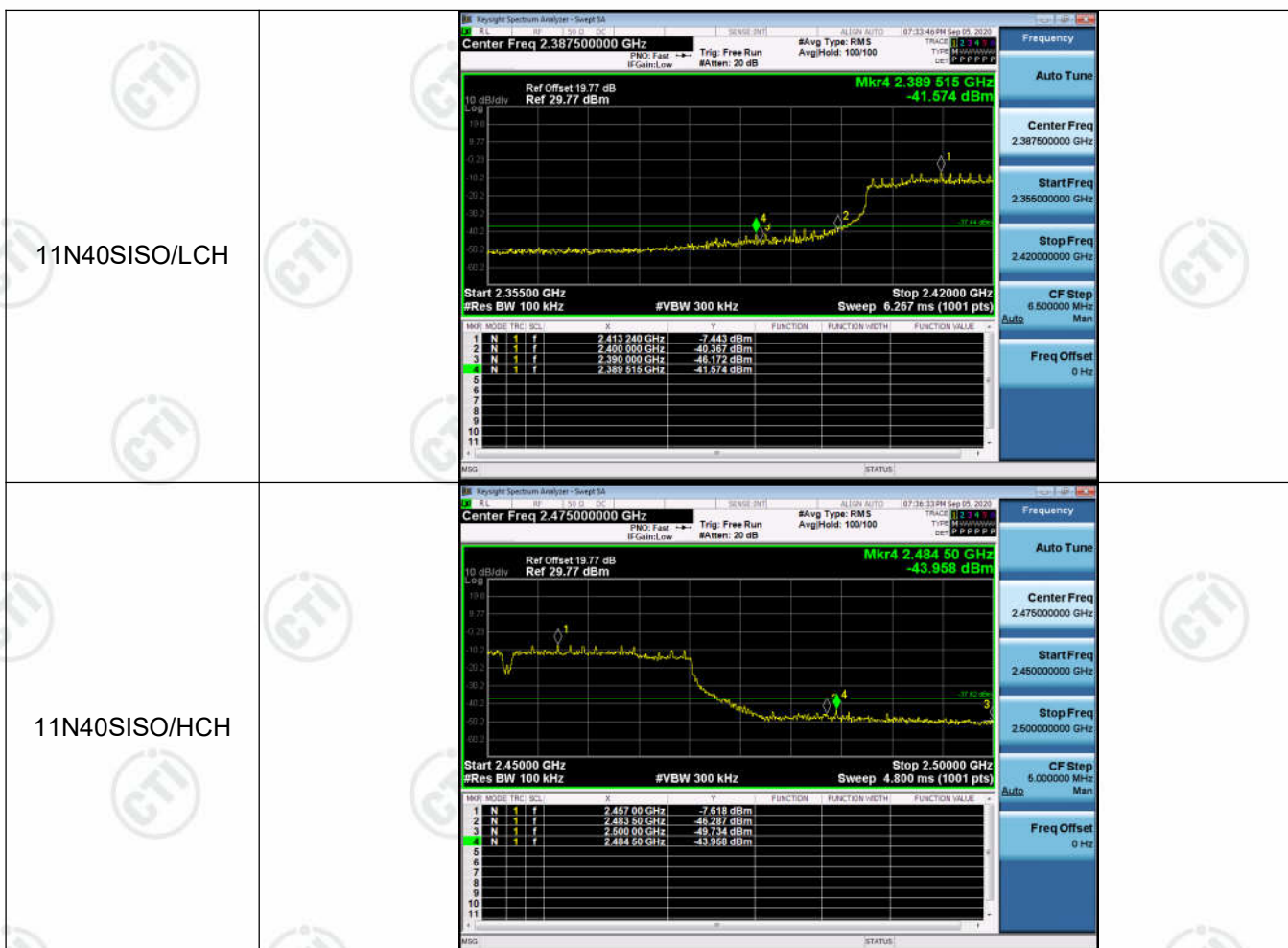


11N40SISO/HCH	 Center Freq 2.475000000 GHz Ref Offset 19.77 dB Ref 29.77 dBm Mkr4 2.491 45 GHz -49.580 dBm Start 2.45000 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.50000 GHz Sweep 4.800 ms (1001 pts) <table><tr><th>MARK</th><th>MODE</th><th>TRC</th><th>SCN</th><th>F</th><th>M</th><th>FUNCTION</th><th>FUNCTION-HOLD</th><th>FUNCTION-VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.457 00 GHz</td><td>-10.182 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.483 50 GHz</td><td>-52.267 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.500 00 GHz</td><td>-53.317 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.491 45 GHz</td><td>-49.580 dBm</td><td></td><td></td><td></td></tr></table>	MARK	MODE	TRC	SCN	F	M	FUNCTION	FUNCTION-HOLD	FUNCTION-VALUE	1	N	1	f	2.457 00 GHz	-10.182 dBm				2	N	1	f	2.483 50 GHz	-52.267 dBm				3	N	1	f	2.500 00 GHz	-53.317 dBm				4	N	1	f	2.491 45 GHz	-49.580 dBm			
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Graphs_Ant2



11G/HCH	 Keyight Spectrum Analyzer - Sweep SA Center Freq 2.475000000 GHz Ref Offset 19.77 dB Ref 29.77 dBm Mkr4 2.484 65 GHz -47.406 dBm Start 2.45000 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (1001 pts) <table><thead><tr><th>MARK</th><th>MODE</th><th>TRG</th><th>SCL</th><th>F</th><th>M</th><th>FUNCTION</th><th>FUNCTION-METHOD</th><th>FUNCTION-VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.463 25 GHz</td><td>-3.826 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.483 50 GHz</td><td>-49.023 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>2.500 00 GHz</td><td>-51.872 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>2.484 65 GHz</td><td>-47.406 dBm</td><td></td><td></td><td></td></tr></tbody></table>	MARK	MODE	TRG	SCL	F	M	FUNCTION	FUNCTION-METHOD	FUNCTION-VALUE	1	N	1	f	2.463 25 GHz	-3.826 dBm				2	N	1	f	2.483 50 GHz	-49.023 dBm				3	N	1	f	2.500 00 GHz	-51.872 dBm				4	N	1	f	2.484 65 GHz	-47.406 dBm			
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Appendix D): RF Conducted Spurious Emissions

Result Table

Mode	Antenna	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	Ant1	LCH	2.844	<Limit	PASS
11B	Ant2	LCH	3.329	<Limit	PASS
11B	Ant1	MCH	2.902	<Limit	PASS
11B	Ant2	MCH	3.788	<Limit	PASS
11B	Ant1	HCH	2.606	<Limit	PASS
11B	Ant2	HCH	3.295	<Limit	PASS
11G	Ant1	LCH	-3.966	<Limit	PASS
11G	Ant2	LCH	-3.545	<Limit	PASS
11G	Ant1	MCH	-2.903	<Limit	PASS
11G	Ant2	MCH	-2.841	<Limit	PASS
11G	Ant1	HCH	-3.316	<Limit	PASS
11G	Ant2	HCH	-3.735	<Limit	PASS
11N20SISO	Ant1	LCH	-5.195	<Limit	PASS
11N20SISO	Ant2	LCH	-5.4	<Limit	PASS
11N20SISO	Ant1	MCH	-5.036	<Limit	PASS
11N20SISO	Ant2	MCH	-4.921	<Limit	PASS
11N20SISO	Ant1	HCH	-4.866	<Limit	PASS
11N20SISO	Ant2	HCH	-5.413	<Limit	PASS
11N20MIMO	Ant1	LCH	-9.817	<Limit	PASS
11N20MIMO	Ant2	LCH	-9.987	<Limit	PASS
11N20MIMO	Ant1	MCH	-9.49	<Limit	PASS
11N20MIMO	Ant2	MCH	-9.564	<Limit	PASS
11N20MIMO	Ant1	HCH	-10.347	<Limit	PASS
11N20MIMO	Ant2	HCH	-9.803	<Limit	PASS
11N40SISO	Ant1	LCH	-9.711	<Limit	PASS
11N40SISO	Ant2	LCH	-9.991	<Limit	PASS
11N40SISO	Ant1	MCH	-9.34	<Limit	PASS
11N40SISO	Ant2	MCH	-9.754	<Limit	PASS
11N40SISO	Ant1	HCH	-10.333	<Limit	PASS
11N40SISO	Ant2	HCH	-10.399	<Limit	PASS
11N40MIMO	Ant1	LCH	-14.237	<Limit	PASS

11N40MIMO	Ant2	LCH	-13.927	<Limit	PASS
11N40MIMO	Ant1	MCH	-14.065	<Limit	PASS
11N40MIMO	Ant2	MCH	-13.698	<Limit	PASS
11N40MIMO	Ant1	HCH	-13.888	<Limit	PASS
11N40MIMO	Ant2	HCH	-13.765	<Limit	PASS