

TEST REPORT

Product : Digital Photo Frame
Trade mark : N/A
: DGF201, DGF202, DGF207, DGF208,
DGF210, DGF213, DGF214, DGF215,
Model/Type reference : DPF101, DPF101, Smart801, DPF701,
Smart141, Phototen DF07 DF09 DF10
MI86, MI706, VI86, VI706 VI106 MI106
Serial Number : N/A
Report Number : EED32L00227301
FCC ID : 2AUKAMCX
Date of Issue : Sep. 11, 2019
Test Standards : 47 CFR Part 15Subpart C
Test result : PASS

Prepared for:

MAI CHUANGXIN ELECTRONIC LIMITED
Floor 6th, A building, RunFeng Industrial Zone,
Gushu, Xixiang, BaoAn, Shenzhen, China

Prepared by:

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Date:

Sep. 11, 2019

Check No.: 4038894478



2 Version

Version No.	Date	Description
00	Sep. 11, 2019	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.

The tested sample(s) and the sample information are provided by the client.

Model No.: DGF201, DGF202, DGF207, DGF208, DGF210, DGF213, DGF214, DGF215, DPF101, DPF101, Smart801, DPF701, Smart141, Phototen DF07 DF09 DF10 MI86, MI706, VI86, VI706 VI106 MI106

Only the model DGF201 was tested, the difference between these product models is only the shell color ,trademark and model name. Similarly, the principle, structure, circuit, and related components of the product models are the same. Does not affect the safety and electromagnetic compatibility of the product.

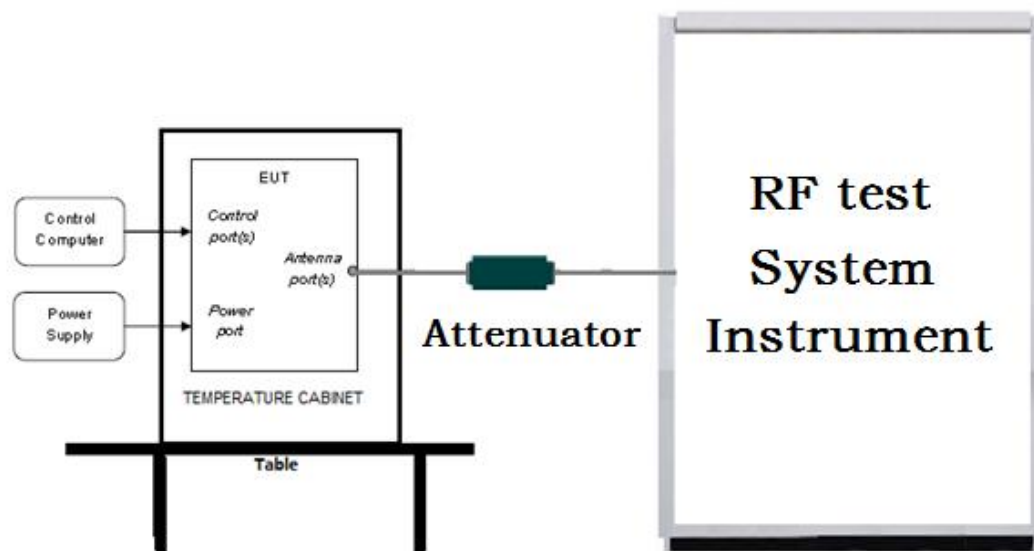
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

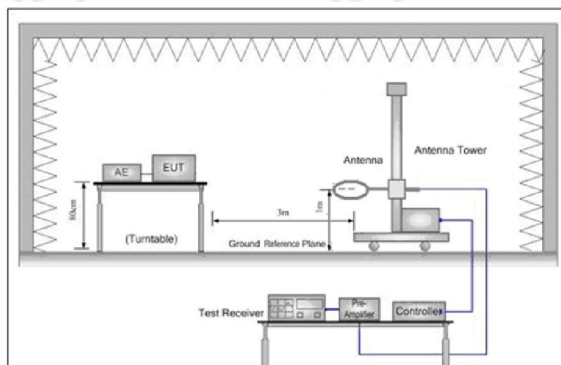


Figure 1. Below 30MHz

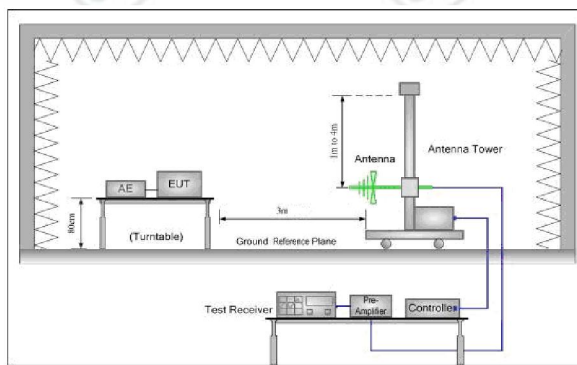


Figure 2. 30MHz to 1GHz

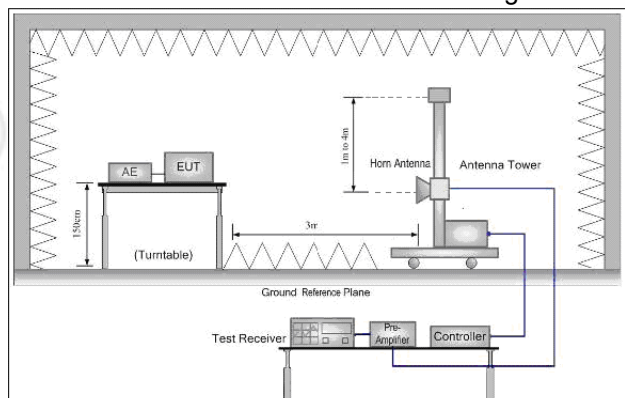
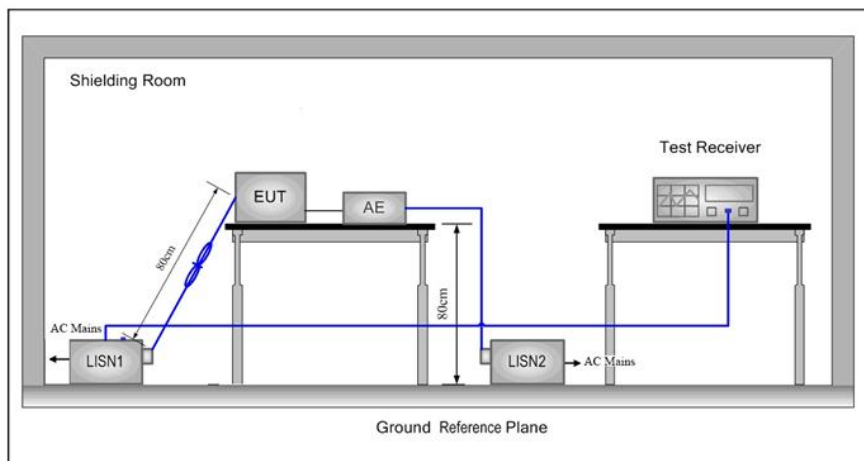


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment:

Temperature:	24.0 °C
Humidity:	55 % 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 1	Channel 4	Channel7
		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 1

Scan under all rate at lowest channel								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power(dBm)	18.05	18.07	18.09	18.11				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power(dBm)	17.11	17.13	17.15	17.18	17.20	17.22	17.25	17.28
Mode	802.11n (HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power(dBm)	16.16	16.14	1.13	16.11	16.09	16.07	16.05	16.02
Mode	802.11n (HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power(dBm)	15.38	15.35	15.33	15.30	15.29	15.28	15.24	15.21

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:	MAI CHUANGXIN ELECTRONIC LIMITED
Address of Applicant:	Floor 6th, A building, RunFeng Industrial Zone, Gushu, Xixiang, BaoAn, Shenzhen, China
Manufacturer:	MAI CHUANGXIN ELECTRONIC LIMITED
Address of Manufacturer:	Floor 6th, A building, RunFeng Industrial Zone, Gushu, Xixiang, BaoAn, Shenzhen, China
Factory:	MAI CHUANGXIN ELECTRONIC LIMITED
Address of Factory:	Floor 6th, A building, RunFeng Industrial Zone, Gushu, Xixiang, BaoAn, Shenzhen, China

6.2 General Description of EUT

Product Name:	Digital Photo Frame	
Model No.(EUT):	DGF201, DGF202, DGF207, DGF208, DGF210, DGF213, DGF214, DGF215, DPF101, DPF101, Smart801, DPF701, Smart141, Phototen DF07 DF09 DF10 MI86, MI706, VI86, VI706 VI106 MI106	
Test Model No.:	DGF201	
Trade Mark:	N/A	
EUT Supports Radios application:	WiFi IEEE 802.11 /b/g/n (HT20) 2412MHz to 2462MHz	
Power Supply:	Adapter:	AC :100-240 V 50/60 Hz 0.2A
Sample Received Date:	Aug. 15, 2019	
Sample tested Date:	Aug. 15, 2019 to Sep. 11, 2019	

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:	DSSS, OFDM
Test Power Grade:	802.11b:L 63,M 40,H 30 802.11n20:L 39,M 38,H 38 802.11g: L 41,M 40,H 39(manufacturer declare)
Test Software of EUT:	REALTEK WLAN Test Tool
Antenna Type and Gain:	Type: PCB antenna Gain:4.69 dBi
Test Voltage:	DC 5V

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

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	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-29-2020
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-09-2019	01-08-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-29-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-29-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-29-2020
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-01-2019	02-29-2020
Temperature/Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019

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	05-20-2019	05-19-2020
Temperature/Humidity Indicator	Defu	TH128	/	06-14-2019	06-13-2020
LISN	R&S	ENV216	100098	05-08-2019	05-07-2020

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	07-26-2019	07-25-2020
Microwave Preamplifier	Agilent	8449B	3008A02425	07-12-2019	07-11-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-24-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Receiver	R&S	ESCI	100435	05-20-2019	05-19-2020
Multi device Controller	maturo	NCD/070/1071 1112	---	01-09-2019	01-08-2020
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Cable line	Fulai(7M)	SF106	5219/6A	01-09-2019	01-08-2020
Cable line	Fulai(6M)	SF106	5220/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5216/6A	01-09-2019	01-08-2020
Cable line	Fulai(3M)	SF106	5217/6A	01-09-2019	01-08-2020

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	06-19-2019	06-18-2020
Spectrum Analyzer	Keysight	N9020B	MY5711111 2	03-27-2019	03-26-2020
Spectrum Analyzer	Keysight	N9030B	MY5714087 1	03-27-2019	03-26-2020
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	EMC184055S E	980596	05-22-2019	05-21-2020
Preamplifier	Agilent	8449B	3008A0242 5	07-12-2019	07-11-2020
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-30-2019	04-29-2020
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	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2019	01-08-2020
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2019	01-08-2020
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2019	01-08-2020

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:

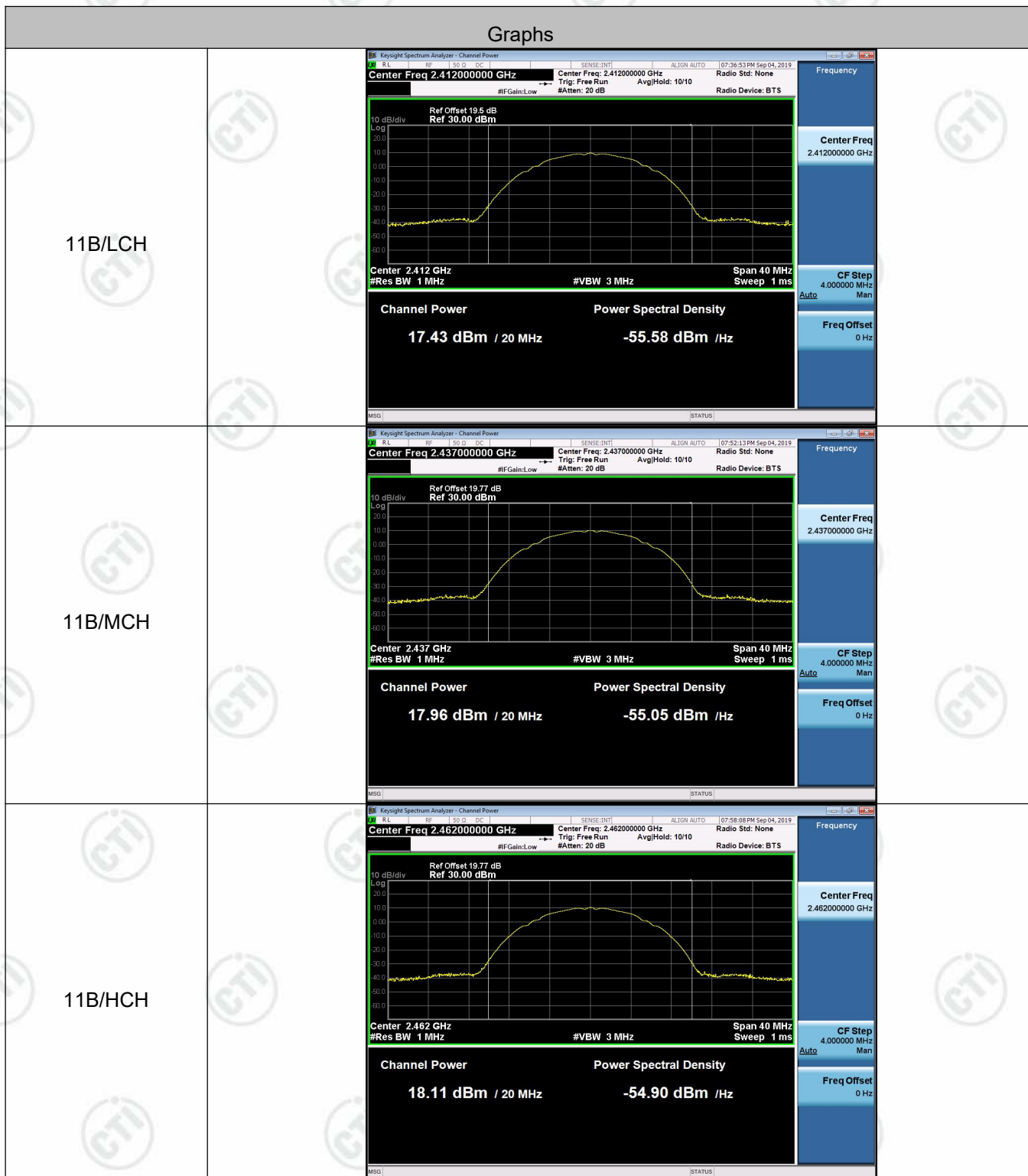
Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS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

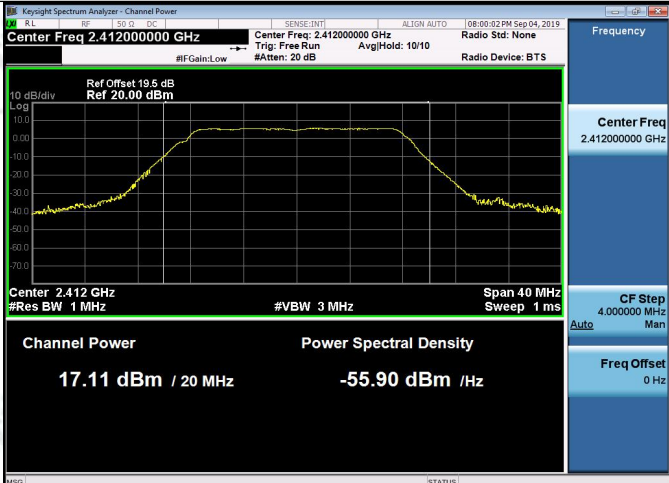
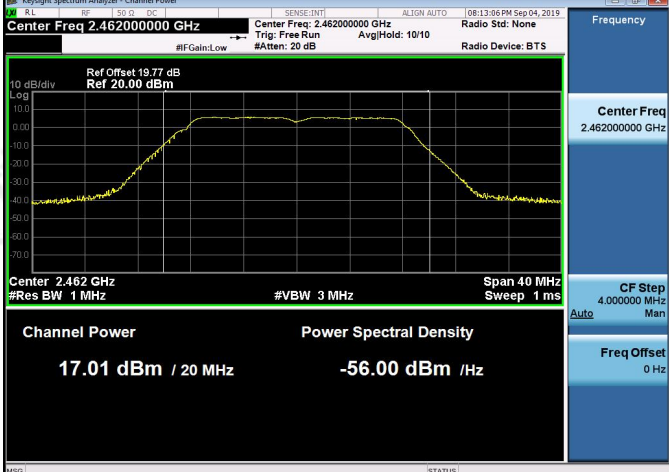
Appendix A): Conducted Peak Output Power

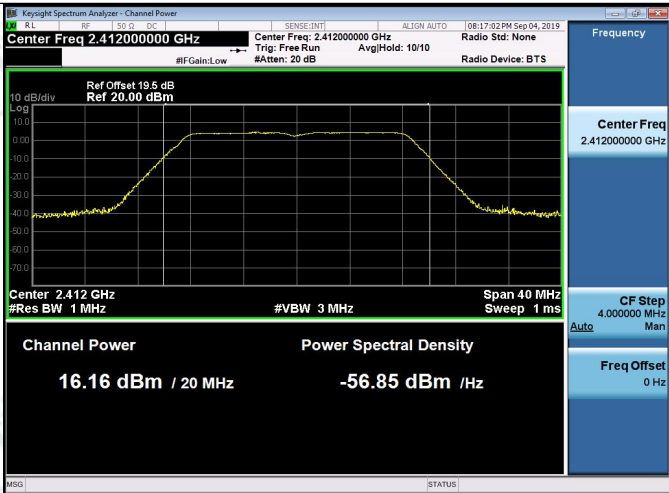
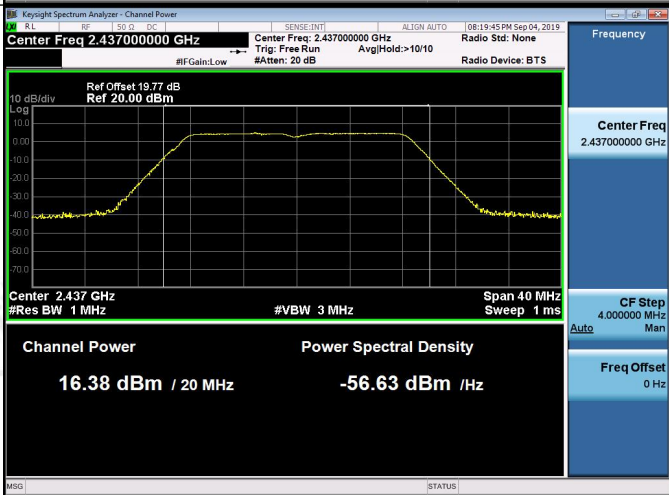
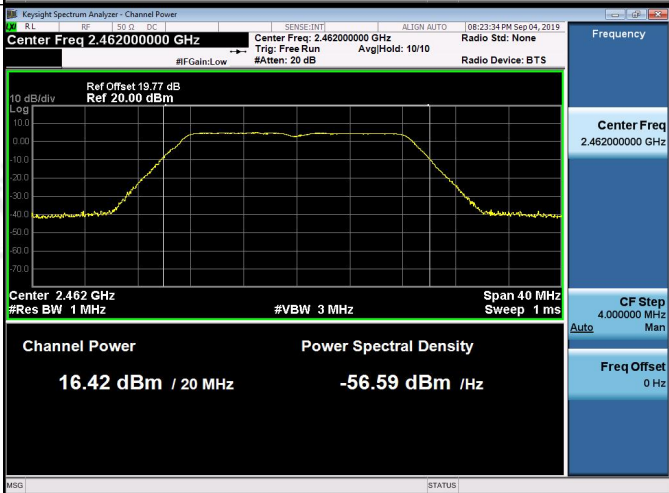
Result Table

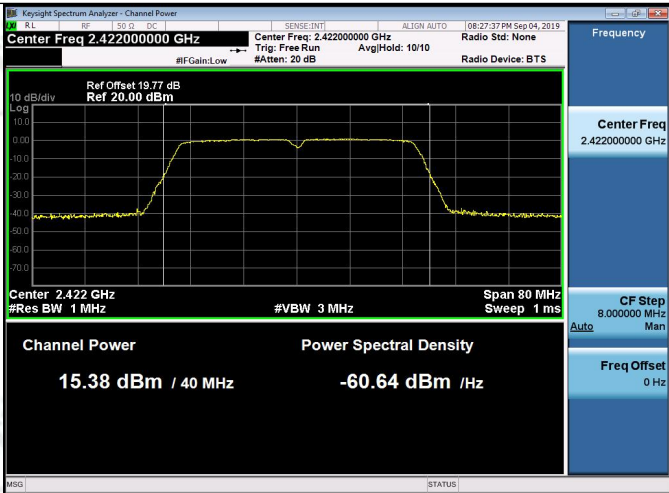
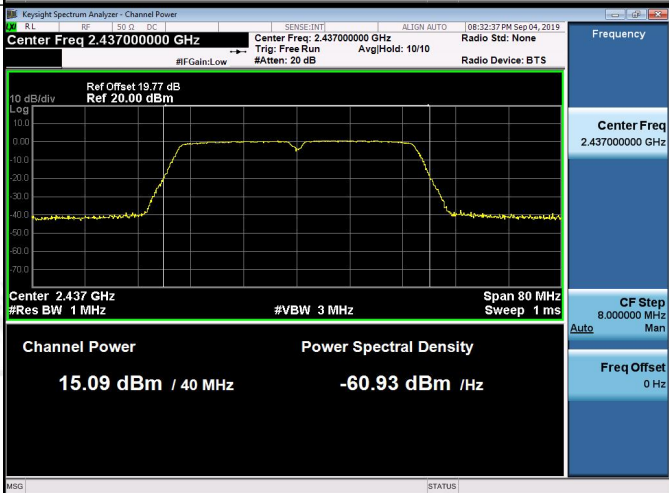
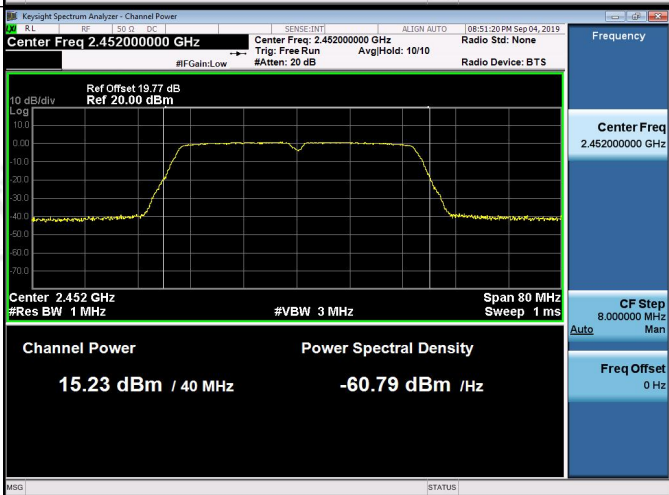
Mode	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	LCH	17.43	PASS
11B	MCH	17.96	PASS
11B	HCH	18.11	PASS
11G	LCH	17.11	PASS
11G	MCH	17.04	PASS
11G	HCH	17.01	PASS
11N20SISO	LCH	16.16	PASS
11N20SISO	MCH	16.38	PASS
11N20SISO	HCH	16.42	PASS
11N40SISO	LCH	15.38	PASS
11N40SISO	MCH	15.09	PASS
11N40SISO	HCH	15.23	PASS

Test Graph



11G/LCH	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Ref Offset: 19.5 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 17.11 dBm / 20 MHz Power Spectral Density -55.90 dBm / Hz Frequency Center Freq 2.412000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11G/MCH	 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 40 MHz Sweep 1 ms Channel Power 17.04 dBm / 20 MHz Power Spectral Density -55.97 dBm / Hz Frequency Center Freq 2.437000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
11G/HCH	 Keysight 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 17.01 dBm / 20 MHz Power Spectral Density -56.00 dBm / Hz Frequency Center Freq 2.462000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz

11N20SISO/LCH	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Ref Offset: 19.5 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 1 MHz Channel Power: 16.16 dBm / 20 MHz Power Spectral Density: -56.85 dBm / Hz
11N20SISO/MCH	 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 Channel Power: 16.38 dBm / 20 MHz Power Spectral Density: -56.63 dBm / Hz
11N20SISO/HCH	 Keysight 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 Channel Power: 16.42 dBm / 20 MHz Power Spectral Density: -56.59 dBm / Hz

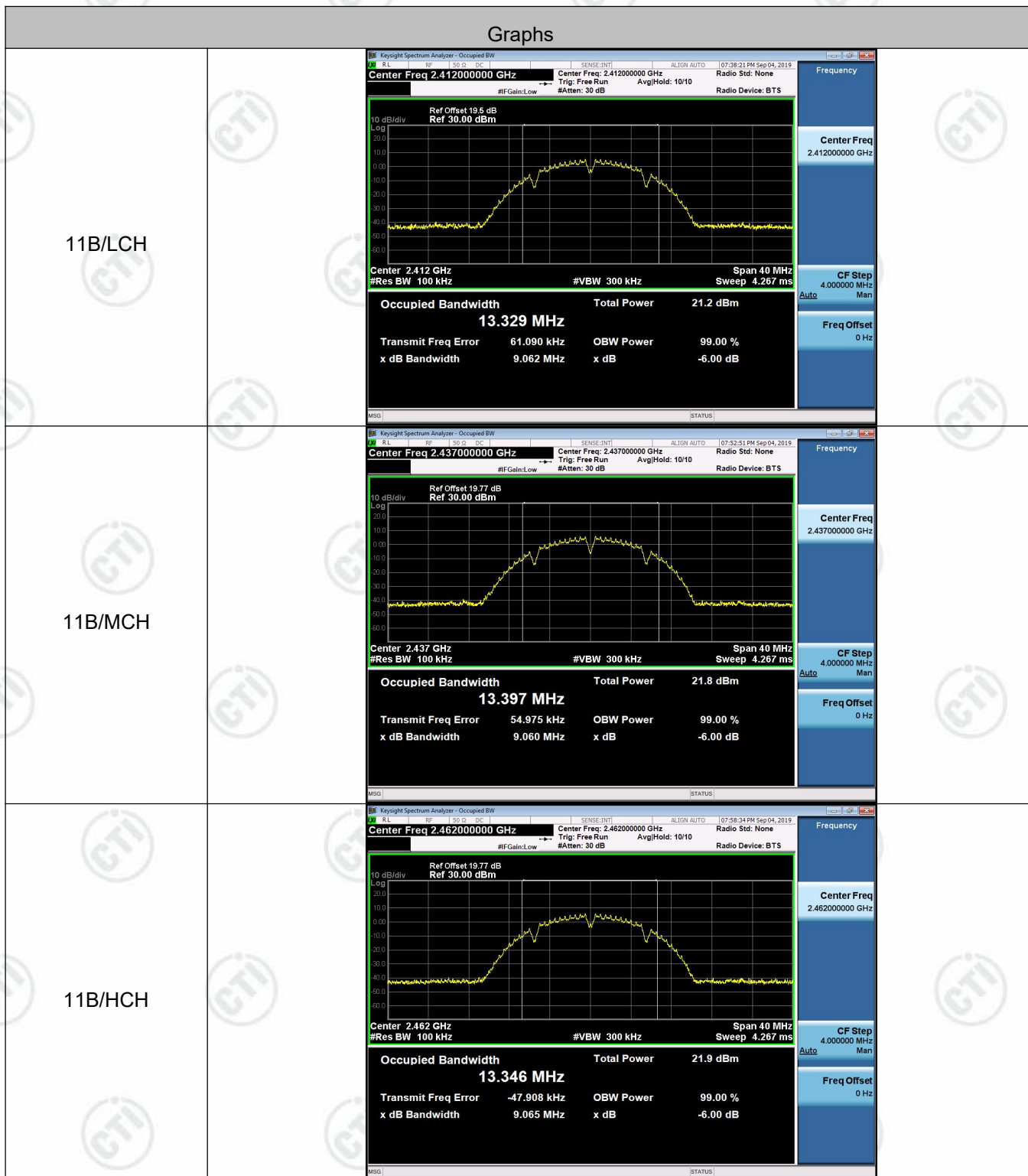
11N40SISO/LCH	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.422 GHz #Res BW 1 MHz Channel Power 15.38 dBm / 40 MHz Power Spectral Density -60.64 dBm / Hz Center Freq 2.422000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/MCH	 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 Channel Power 15.09 dBm / 40 MHz Power Spectral Density -60.93 dBm / Hz Center Freq 2.437000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz
11N40SISO/HCH	 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 Channel Power 15.23 dBm / 40 MHz Power Spectral Density -60.79 dBm / Hz Center Freq 2.452000000 GHz CF Step 8.000000 MHz Freq Offset 0 Hz

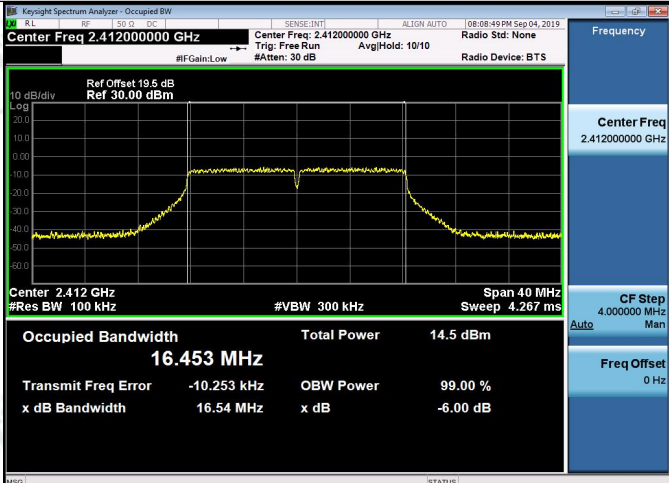
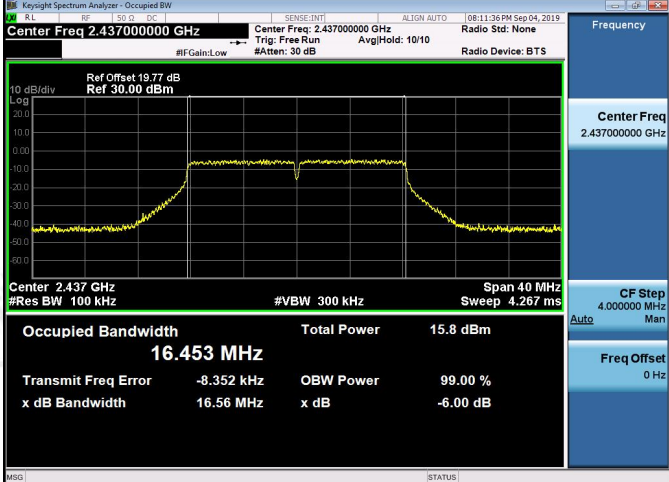
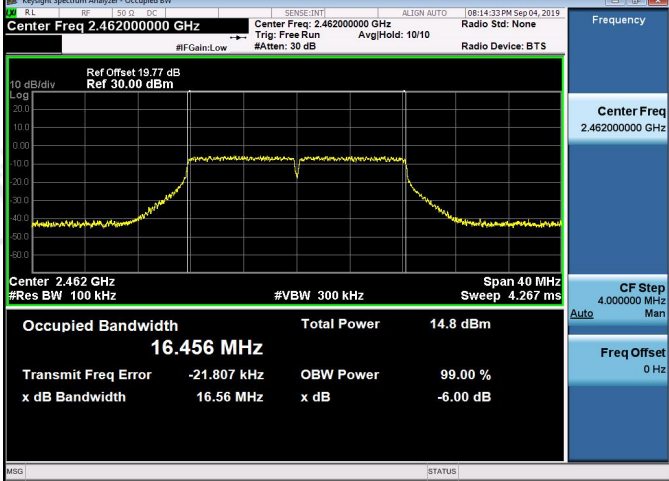
Appendix B): 6dB Occupied Bandwidth

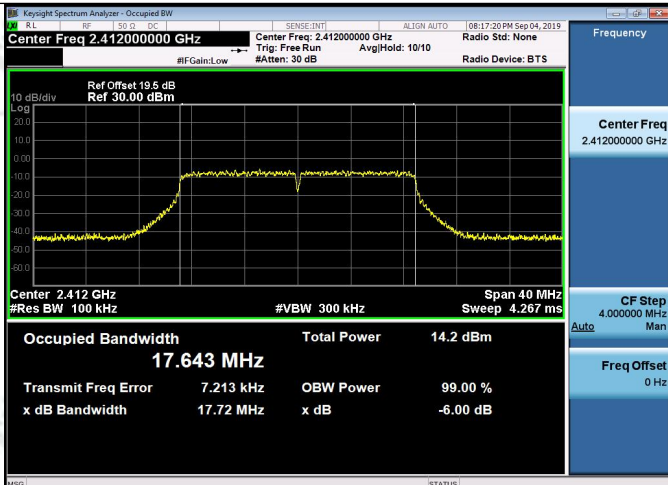
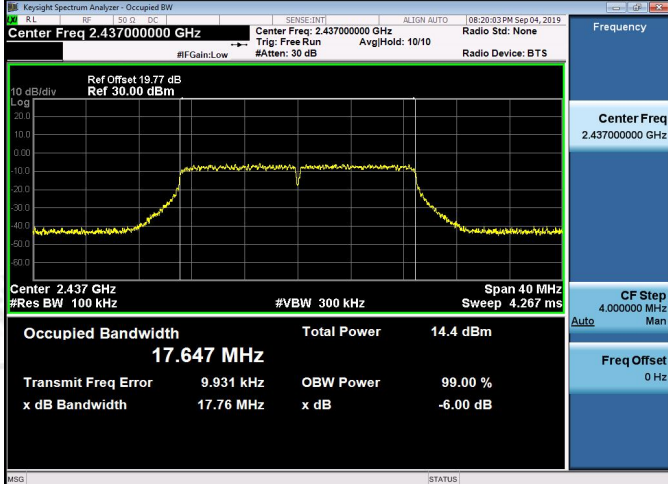
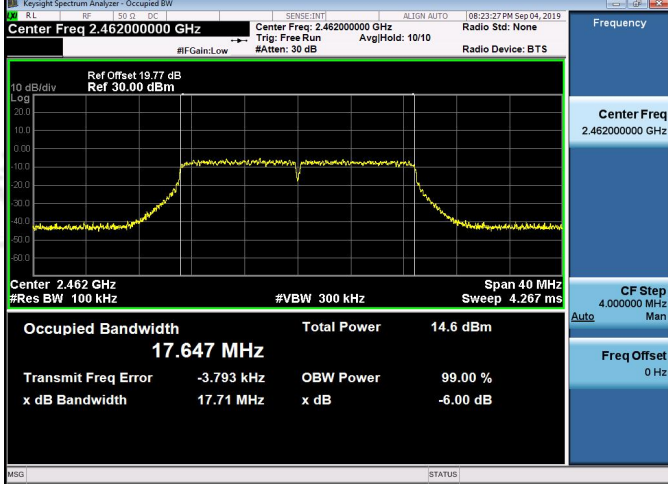
Result Table

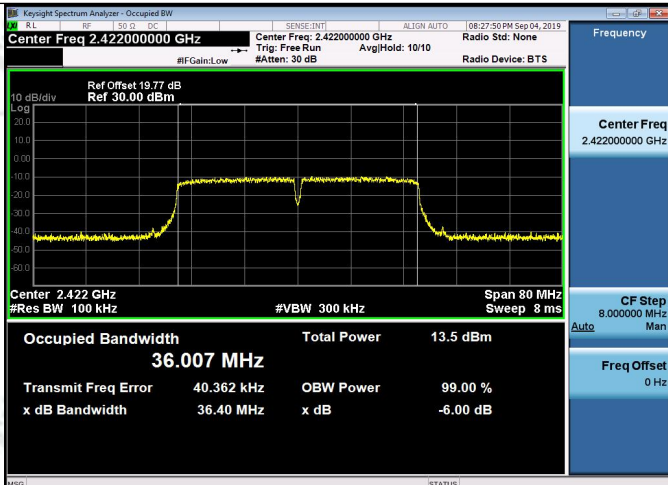
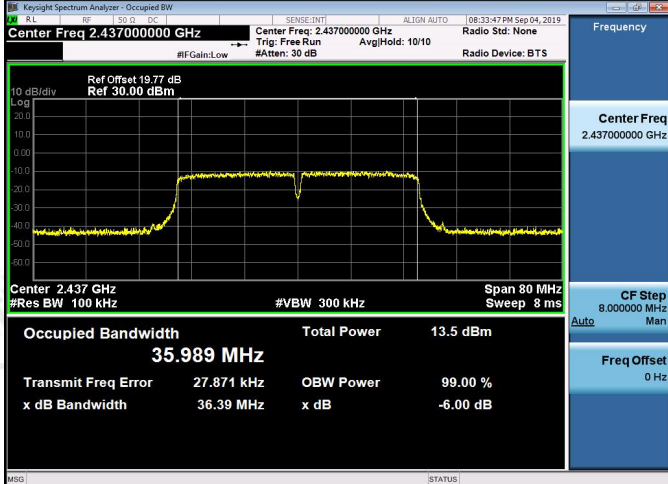
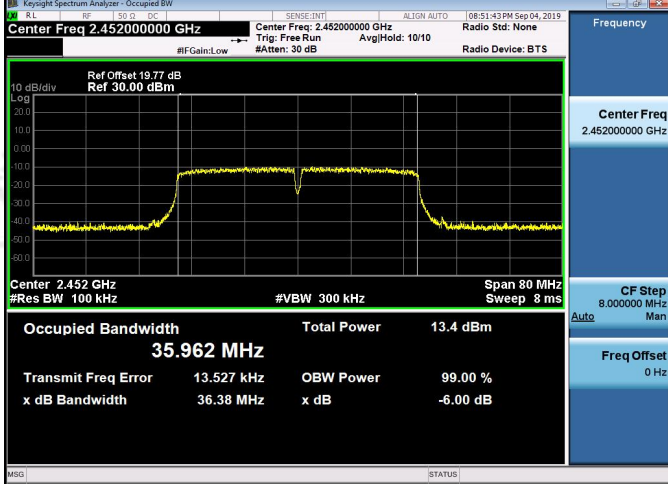
Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	9.062	13.329	PASS
11B	MCH	9.060	13.397	PASS
11B	HCH	9.065	13.346	PASS
11G	LCH	16.54	16.453	PASS
11G	MCH	16.56	16.453	PASS
11G	HCH	16.56	16.456	PASS
11N20SISO	LCH	17.72	17.643	PASS
11N20SISO	MCH	17.76	17.647	PASS
11N20SISO	HCH	17.71	17.647	PASS
11N40SISO	LCH	36.40	36.007	PASS
11N40SISO	MCH	36.39	35.989	PASS
11N40SISO	HCH	36.38	35.962	PASS

Test Graph



11G/LCH	 Keyight 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 Span 40 MHz Sweep 4.267 ms #VBW 300 kHz Occupied Bandwidth 16.453 MHz Total Power 14.5 dBm Transmit Freq Error -10.253 kHz OBW Power 99.00 % x dB Bandwidth 16.54 MHz x dB -6.00 dB
11G/MCH	 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 Span 40 MHz Sweep 4.267 ms #VBW 300 kHz Occupied Bandwidth 16.453 MHz Total Power 15.8 dBm Transmit Freq Error -8.352 kHz OBW Power 99.00 % x dB Bandwidth 16.56 MHz x dB -6.00 dB
11G/HCH	 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 Span 40 MHz Sweep 4.267 ms #VBW 300 kHz Occupied Bandwidth 16.456 MHz Total Power 14.8 dBm Transmit Freq Error -21.807 kHz OBW Power 99.00 % x dB Bandwidth 16.56 MHz x dB -6.00 dB

11N20SISO/LCH	 Keyight 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 Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.643 MHz Total Power 14.2 dBm Transmit Freq Error 7.213 kHz OBW Power 99.00 % x dB Bandwidth 17.72 MHz x dB -6.00 dB
11N20SISO/MCH	 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 Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.647 MHz Total Power 14.4 dBm Transmit Freq Error 9.931 kHz OBW Power 99.00 % x dB Bandwidth 17.76 MHz x dB -6.00 dB
11N20SISO/HCH	 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 Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.647 MHz Total Power 14.6 dBm Transmit Freq Error -3.793 kHz OBW Power 99.00 % x dB Bandwidth 17.71 MHz x dB -6.00 dB

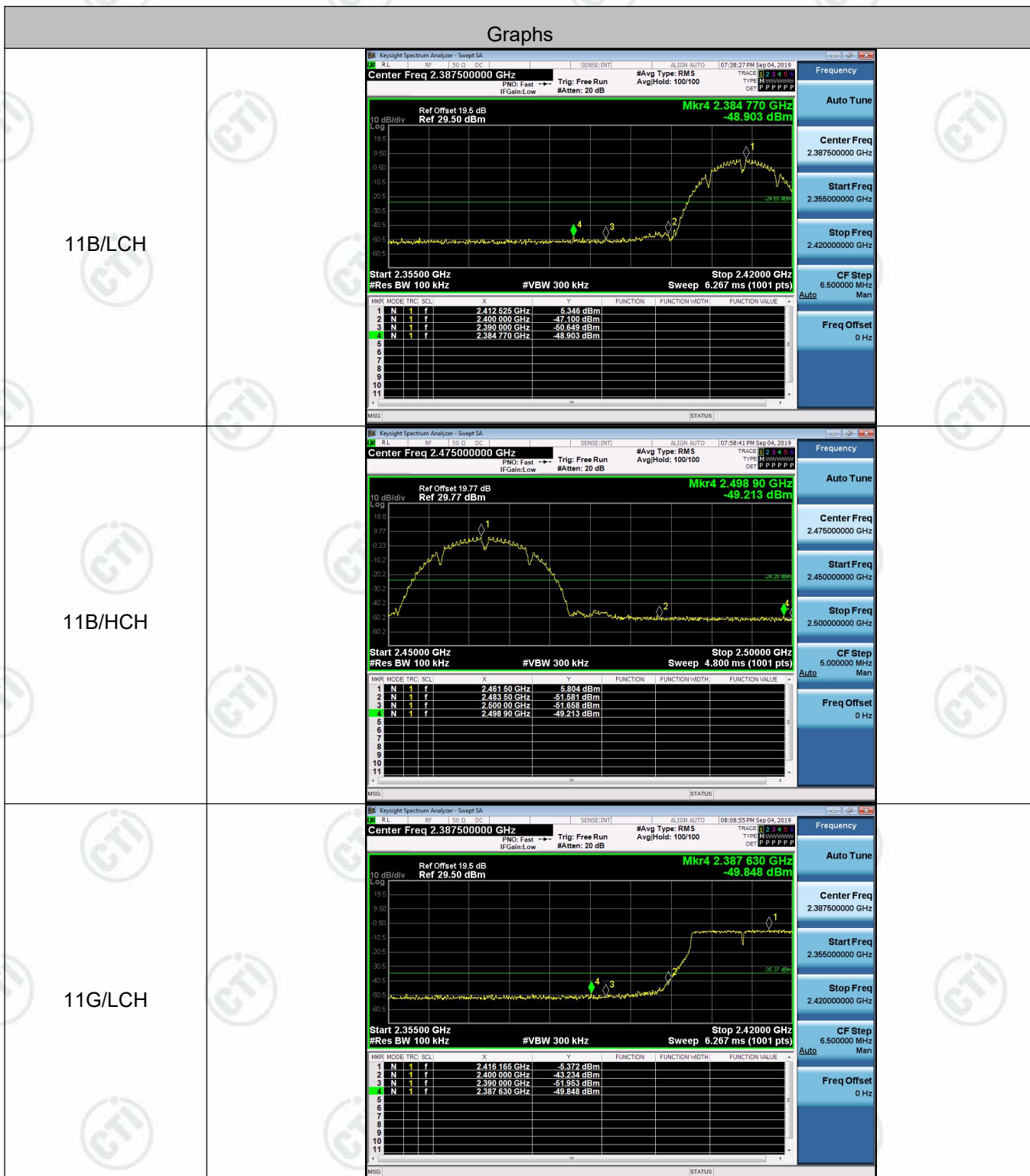
11N40SISO/LCH	 Keyight Spectrum Analyzer - Occupied BW Center Freq 2.422000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.422 GHz #Res BW 100 kHz Occupied Bandwidth 36.007 MHz Total Power 13.5 dBm Transmit Freq Error 40.362 kHz OBW Power 99.00 % x dB Bandwidth 36.40 MHz x dB -6.00 dB
11N40SISO/MCH	 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 Occupied Bandwidth 35.989 MHz Total Power 13.5 dBm Transmit Freq Error 27.871 kHz OBW Power 99.00 % x dB Bandwidth 36.39 MHz x dB -6.00 dB
11N40SISO/HCH	 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 Occupied Bandwidth 35.962 MHz Total Power 13.4 dBm Transmit Freq Error 13.527 kHz OBW Power 99.00 % x dB Bandwidth 36.38 MHz x dB -6.00 dB

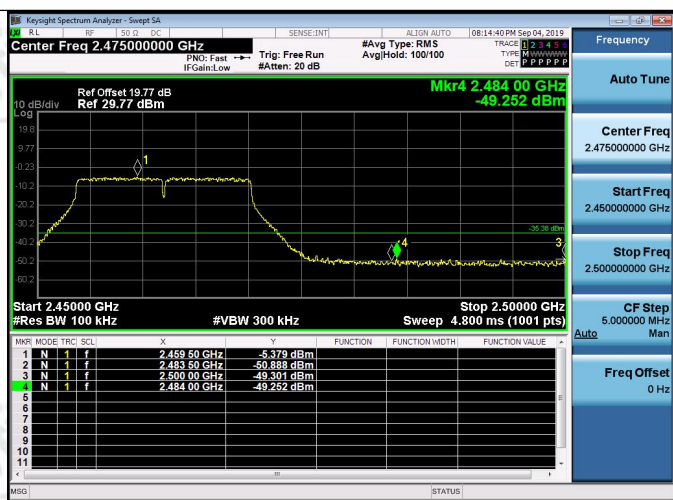
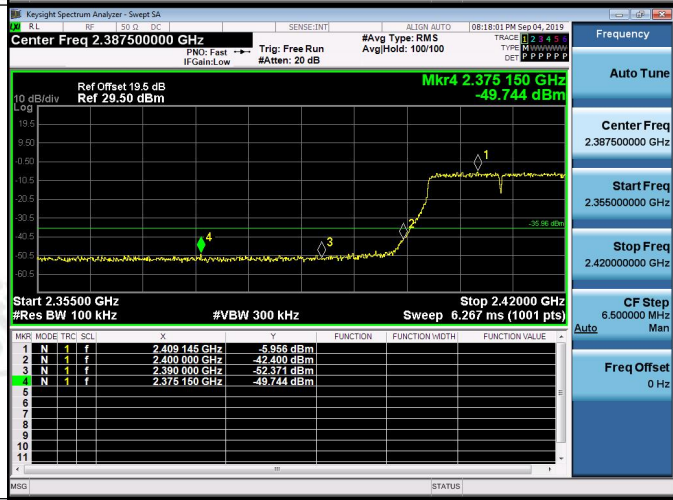
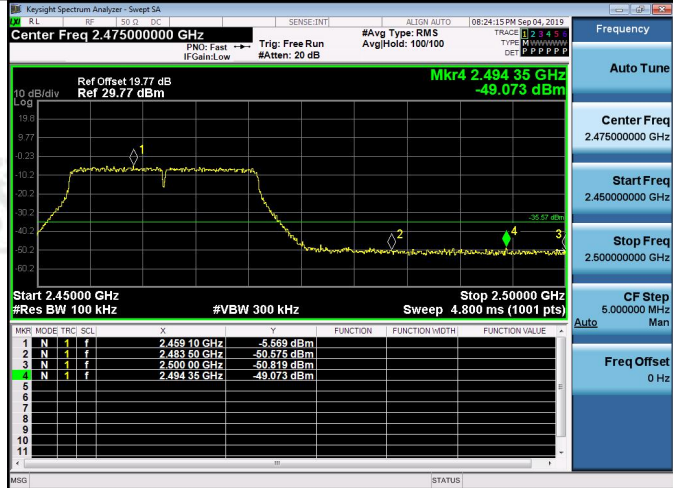
Appendix C): Band-edge for RF Conducted Emissions

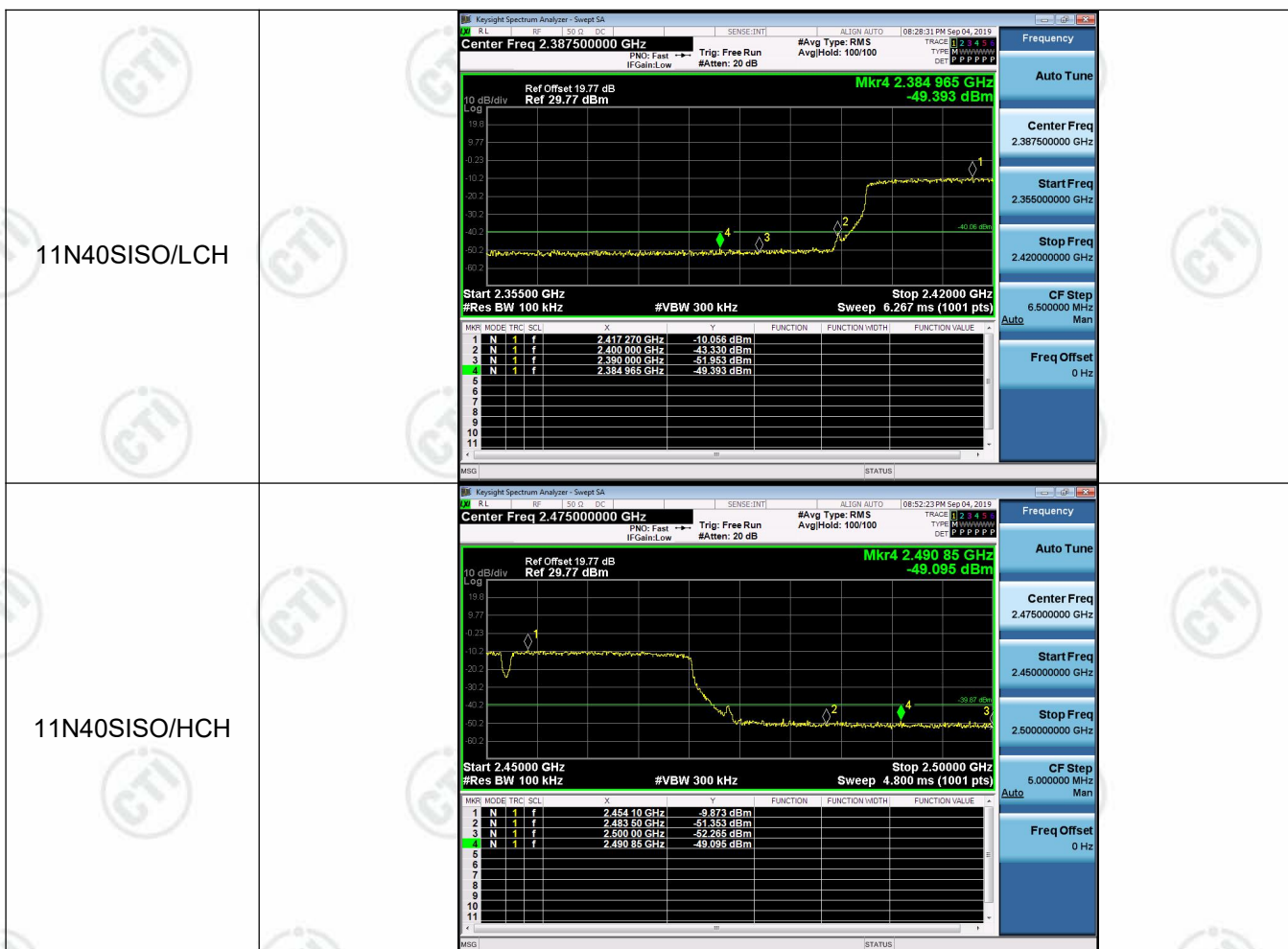
Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	5.346	-48.903	-24.65	PASS
11B	HCH	5.804	-49.213	-24.2	PASS
11G	LCH	-5.372	-49.848	-35.37	PASS
11G	HCH	-5.379	-49.252	-35.38	PASS
11N20SISO	LCH	-5.956	-49.744	-35.96	PASS
11N20SISO	HCH	-5.569	-49.073	-35.57	PASS
11N40SISO	LCH	-10.056	-49.393	-40.06	PASS
11N40SISO	HCH	-9.873	-49.095	-39.87	PASS

Test Graph



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



Appendix D): RF Conducted Spurious Emissions

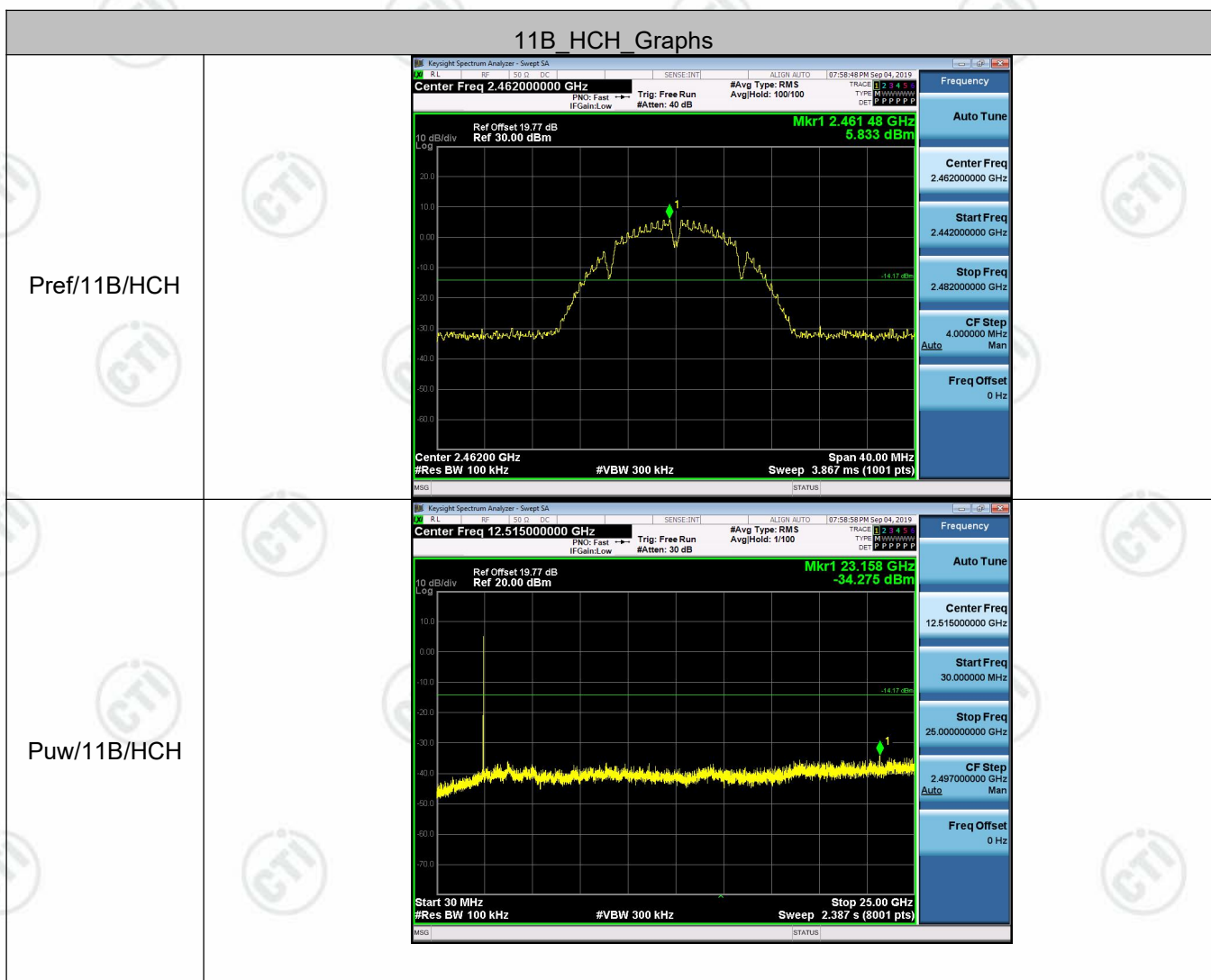
Result Table

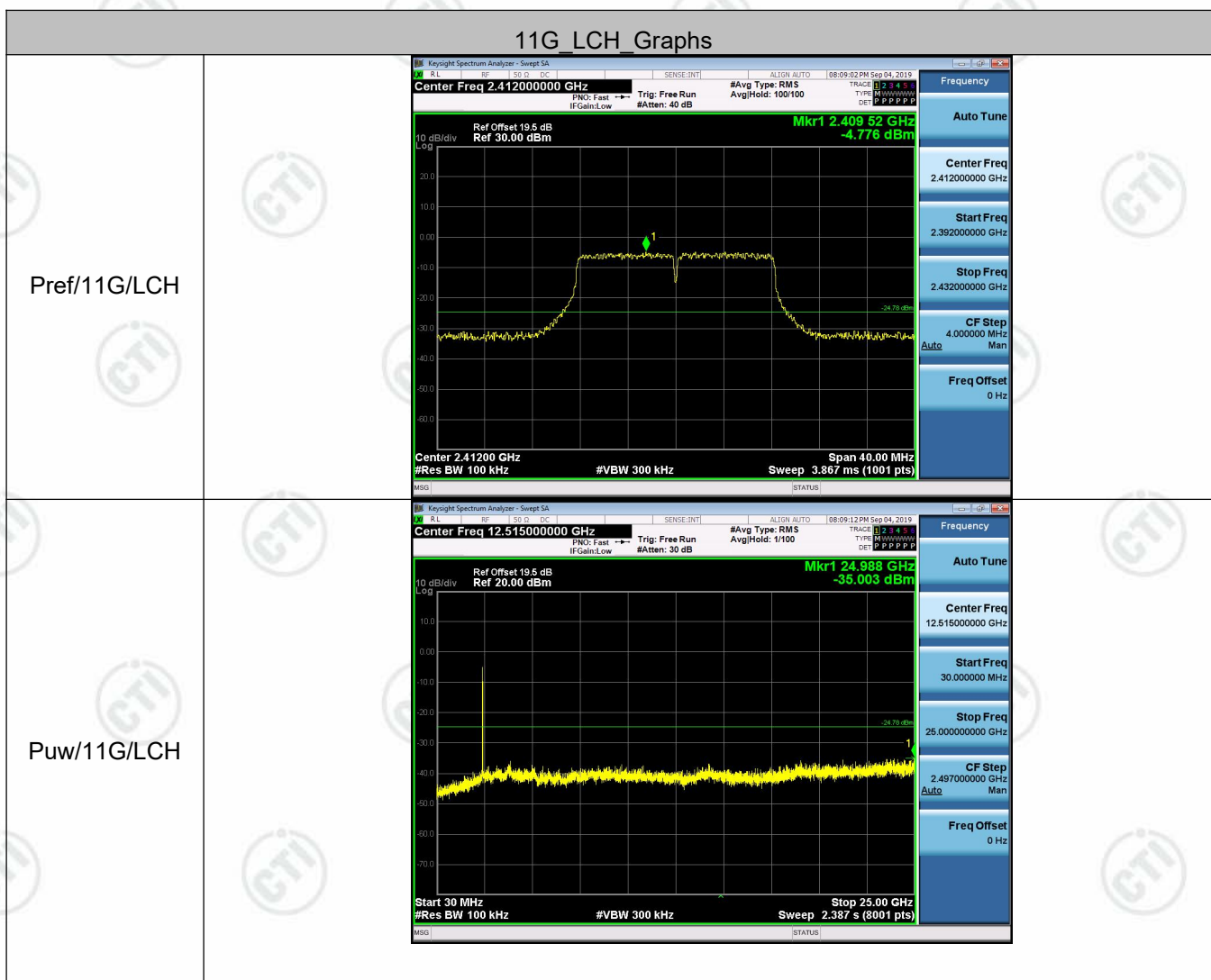
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	5.344	<Limit	PASS
11B	MCH	5.939	<Limit	PASS
11B	HCH	5.833	<Limit	PASS
11G	LCH	-4.776	<Limit	PASS
11G	MCH	-4.702	<Limit	PASS
11G	HCH	-4.968	<Limit	PASS
11N20SISO	LCH	-5.752	<Limit	PASS
11N20SISO	MCH	-5.569	<Limit	PASS
11N20SISO	HCH	-5.174	<Limit	PASS
11N40SISO	LCH	-9.736	<Limit	PASS
11N40SISO	MCH	-9.741	<Limit	PASS
11N40SISO	HCH	-9.551	<Limit	PASS

Test Graph

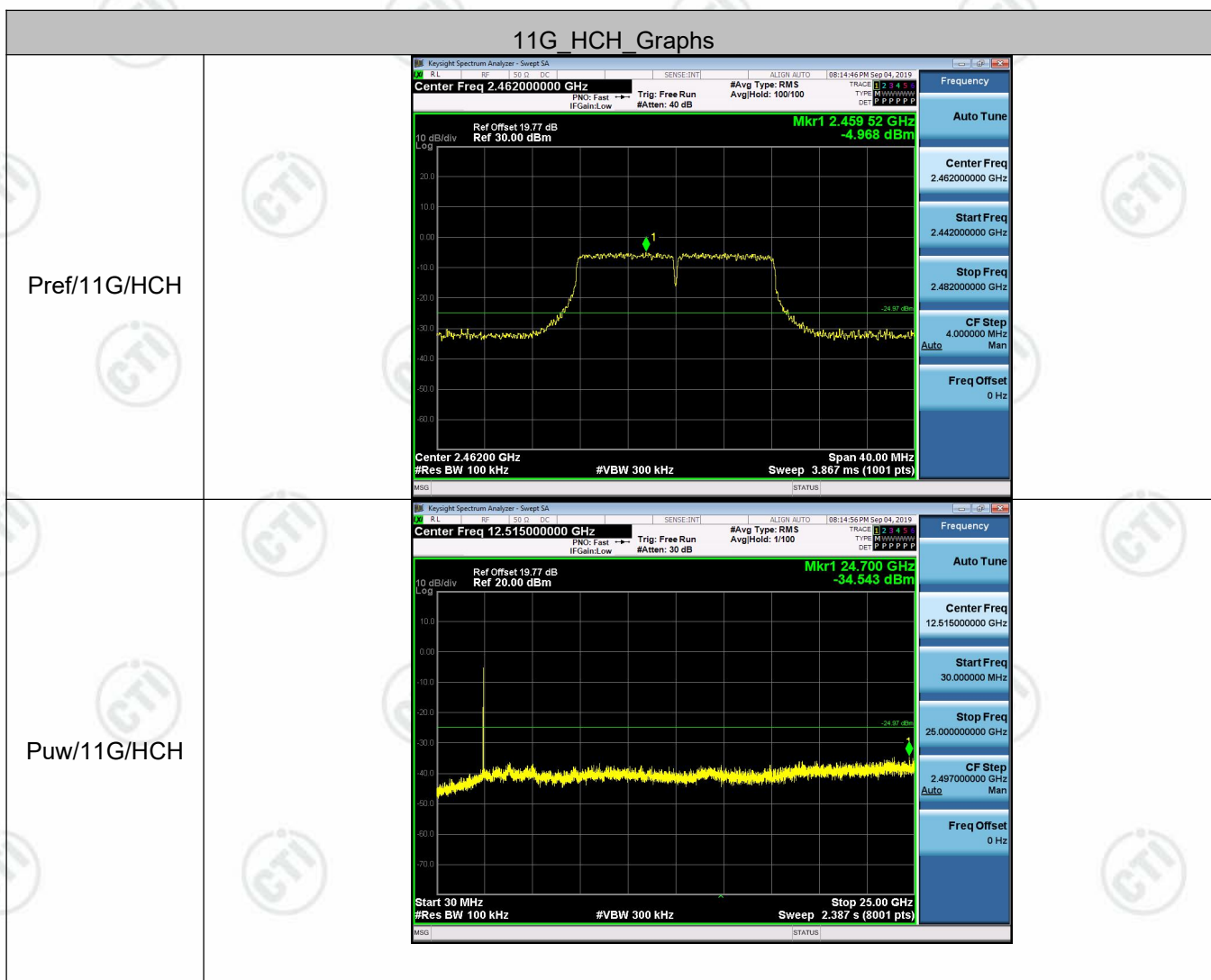


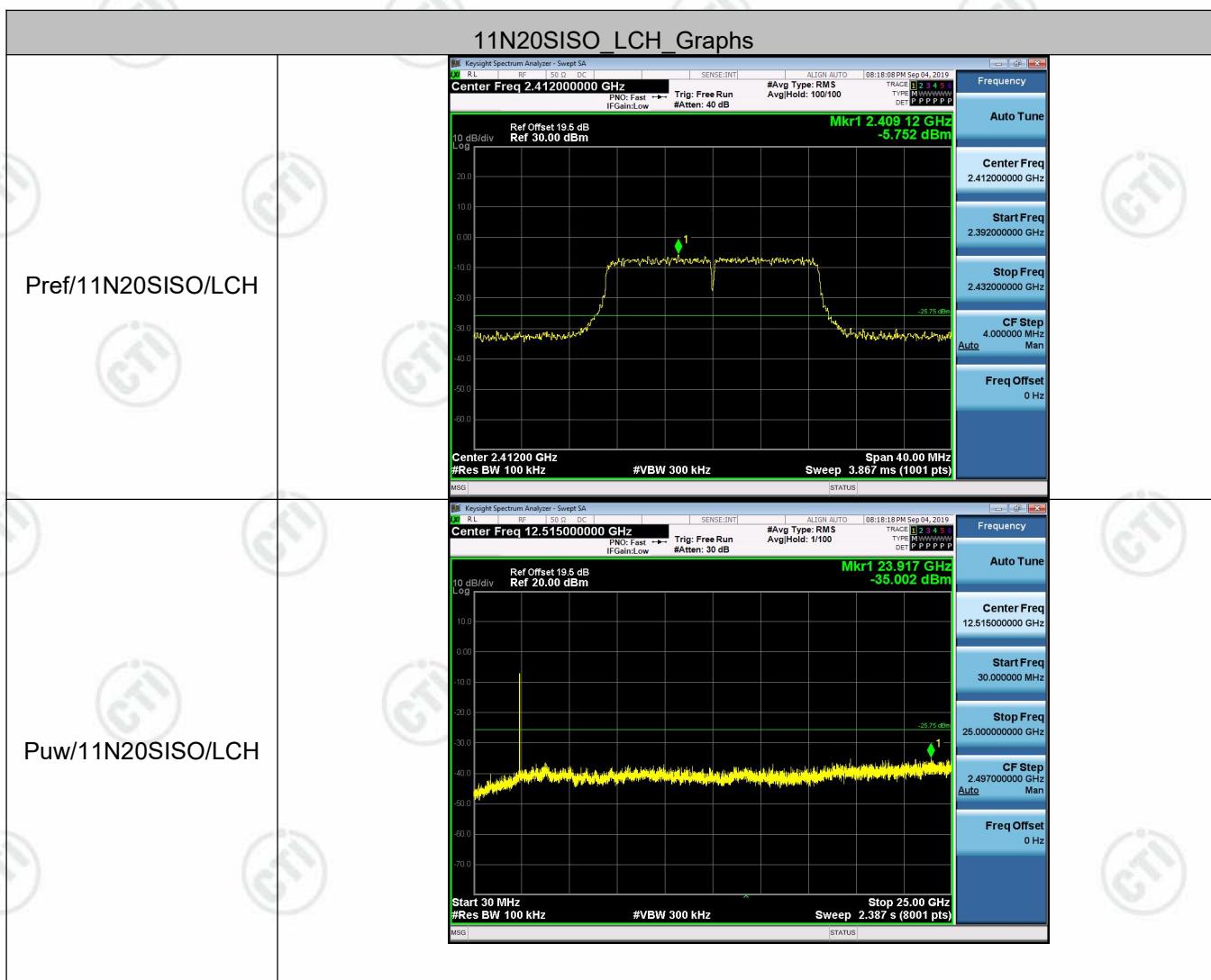










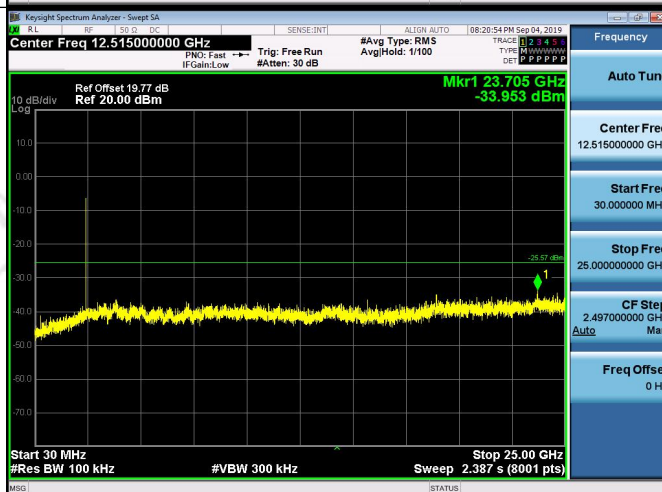


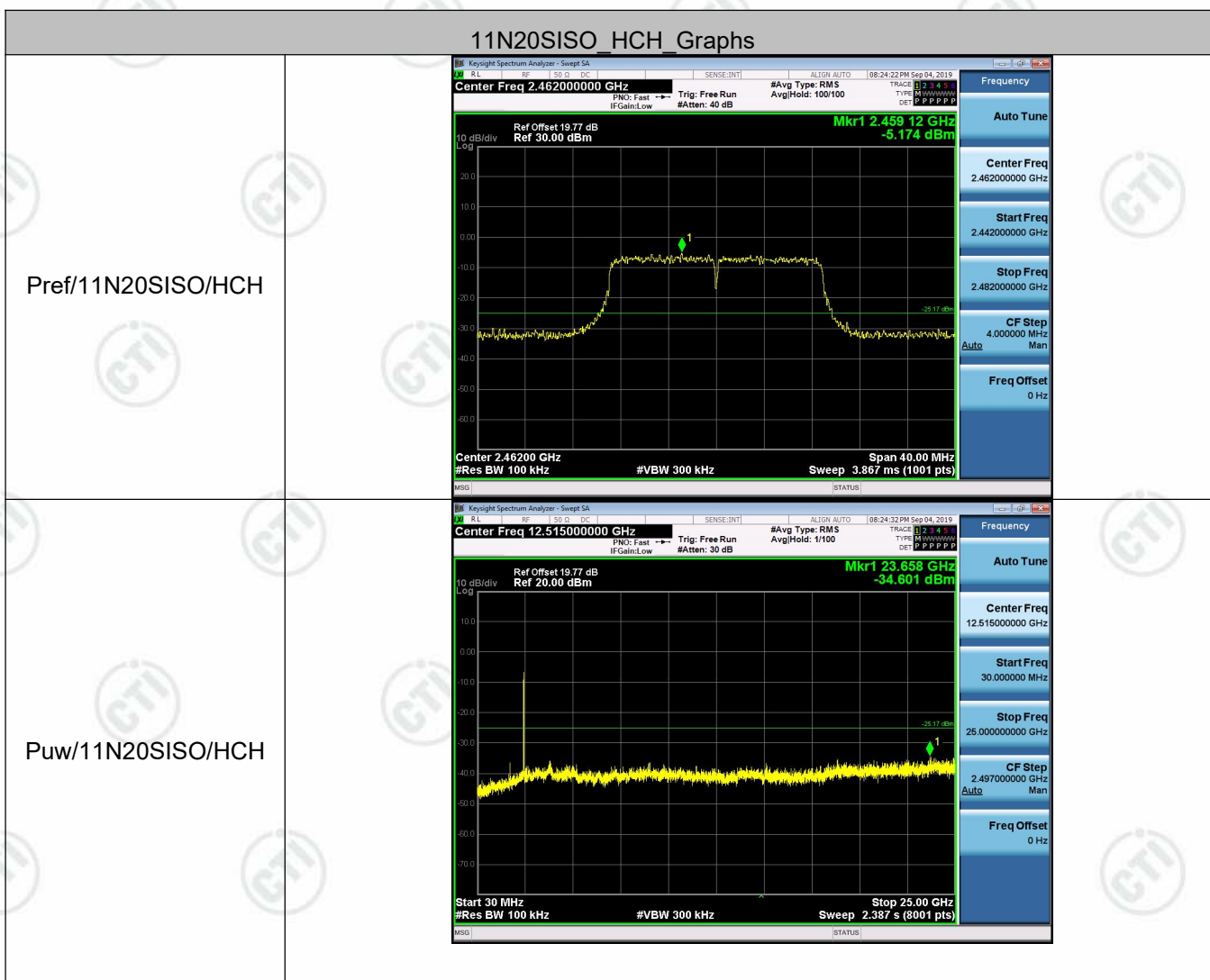
11N20SISO MCH Graphs

Pref/11N20SISO/MCH



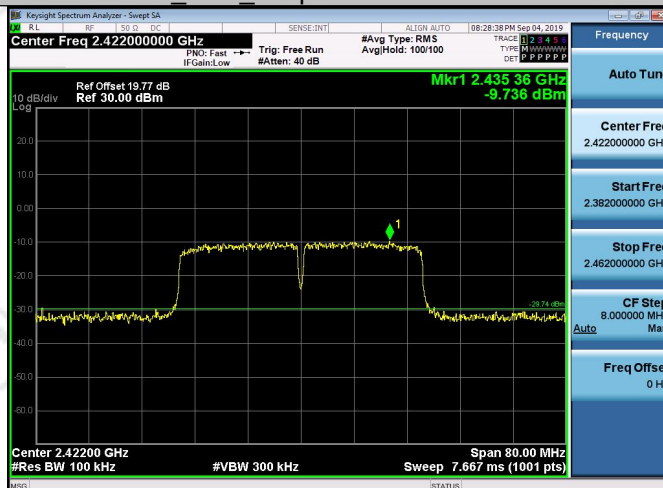
Puw/11N20SISO/MCH



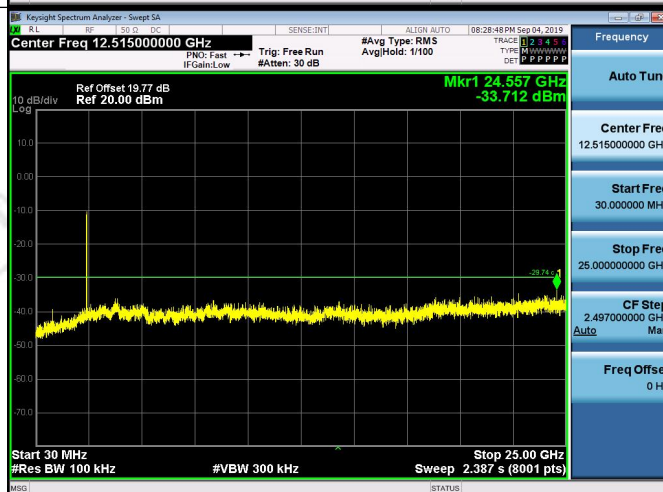


11N40SISO LCH Graphs

Pref/11N40SISO/LCH

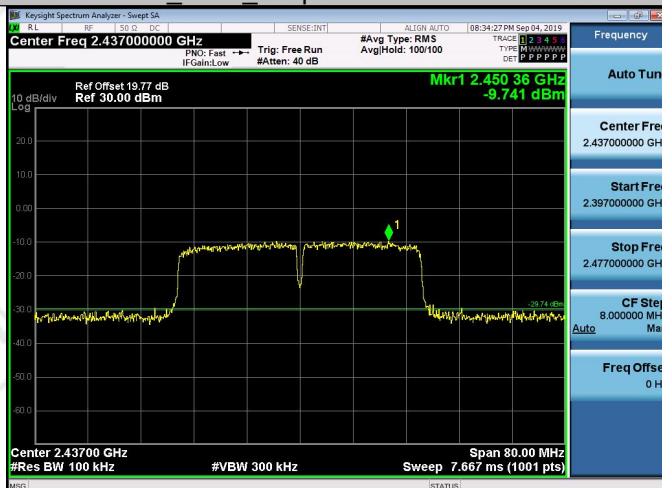


Puw/11N40SISO/LCH

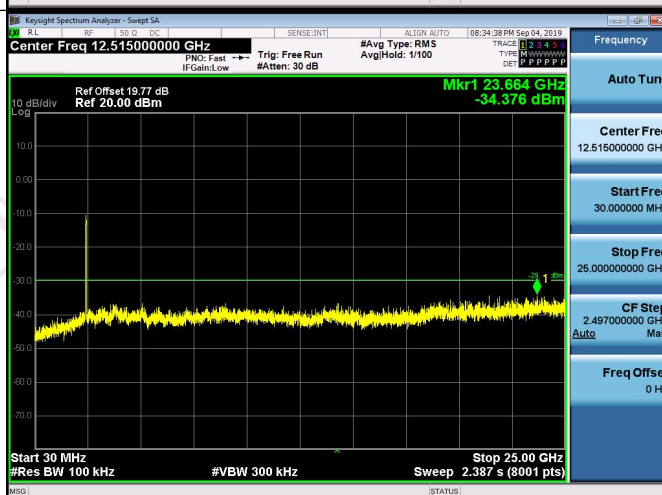


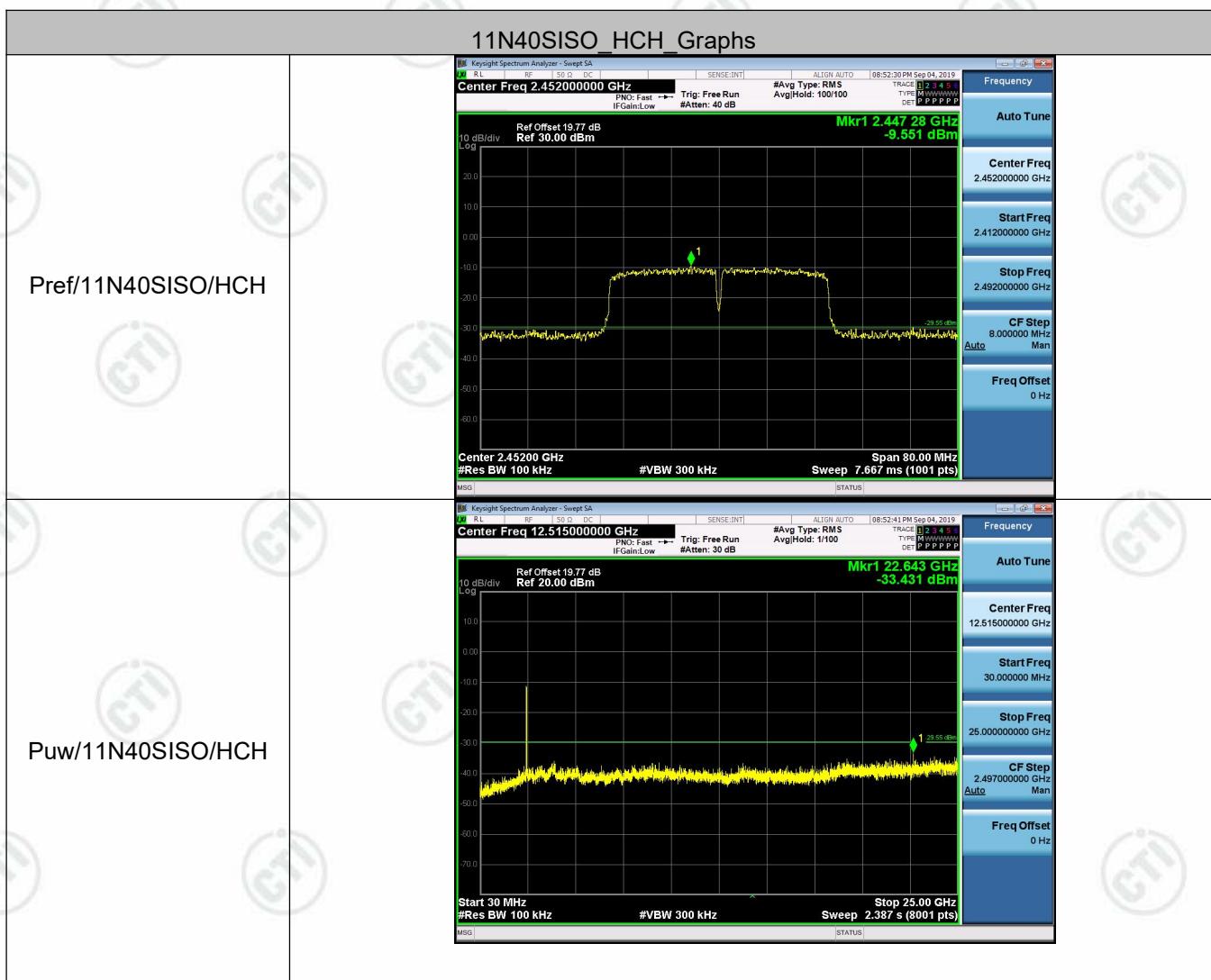
11N40SISO MCH Graphs

Pref/11N40SISO/MCH



Puw/11N40SISO/MCH





Appendix E): Power Spectral Density

Result Table

Mode	Channel	Power Spectral Density [dBm/3KHz]	Verdict
11B	LCH	-15.037	PASS
11B	MCH	-13.987	PASS
11B	HCH	-14.254	PASS
11G	LCH	-19.136	PASS
11G	MCH	-18.842	PASS
11G	HCH	-19.266	PASS
11N20SISO	LCH	-19.676	PASS
11N20SISO	MCH	-19.552	PASS
11N20SISO	HCH	-19.105	PASS
11N40SISO	LCH	-22.518	PASS
11N40SISO	MCH	-22.177	PASS
11N40SISO	HCH	-21.692	PASS

Test Graph

