

TEST REPORT

Product : Smart Projector
Trade mark : TOUMEI
Model/Type reference : C800S, C800, C800W, C800i, V3, V5, V5X, V6, V7, V8, V9, Q1, Q3, Q5, Q6, Q8, C1, C2, C3, C4, C5, C6, C7, C8, T5, T6, T7, T8, T9, X1, X2, X3, X4, X5, X6, X7, X8, X9, S1, S2, S3, S4, S5, S6, S7, S8, S9, K1, K2, K3, K4, K5, K6, K7, K8, K9, A3, A4, A5, A6, A7, A8, A9
Serial Number : N/A
Report Number : EED32L00007203
FCC ID : 2AJCMC800S
Date of Issue : May 15, 2019
Test Standards : 47 CFR Part 15Subpart C
Test result : PASS

Prepared for:

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6th Floor, Building i, Jinchangda Science Park, Shanwei Village,
Zhangkengjing, Guanlan Street, Longhua New District, Shenzhen

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May 15, 2019

Check No.: 3096339091



2 Version

Version No.	Date	Description
00	May 15, 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.: C800S, C800, C800W, C800i, V3, V5, V5X, V6, V7, V8, V9, Q1, Q3, Q5, Q6, Q8, C1, C2, C3, C4, C5, C6, C7, C8, T5, T6, T7, T8, T9, X1, X2, X3, X4, X5, X6, X7, X8, X9, S1, S2, S3, S4, S5, S6, S7, S8, S9, K1, K2, K3, K4, K5, K6, K7, K8, K9, A3, A4, A5, A6, A7, A8, A9

Only the model C800 was tested, Different models are the different outer case colors, but internal structure, circuit principle and all key components related to EMC performance are identical. The differences do not affect product safety and EMC performance.

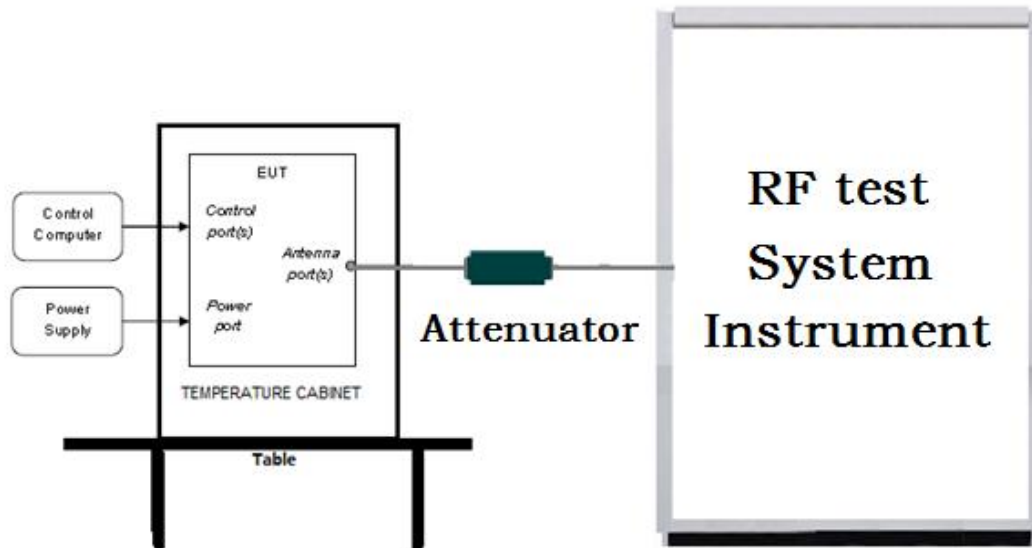
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

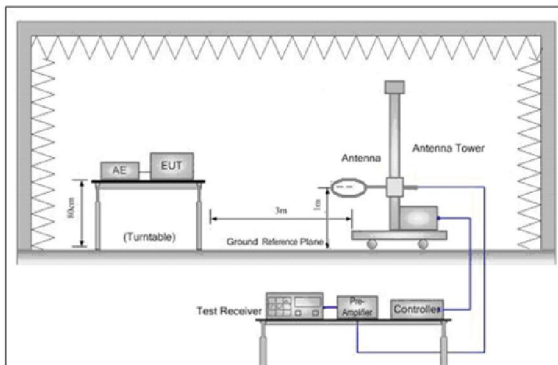


Figure 1. Below 30MHz

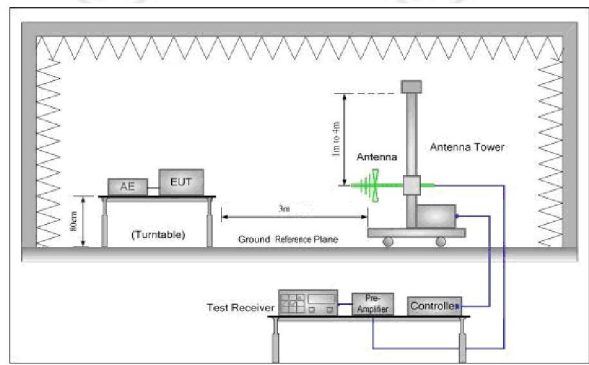


Figure 2. 30MHz to 1GHz

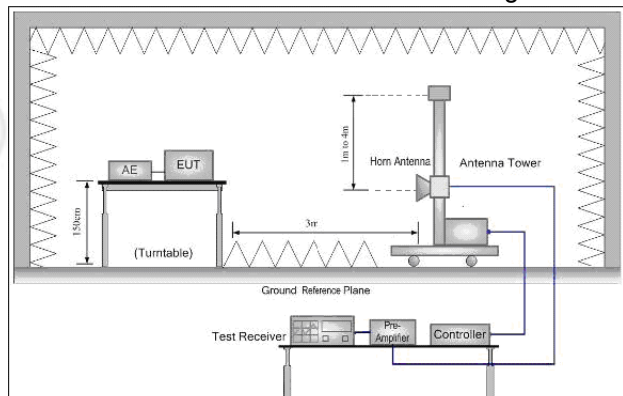
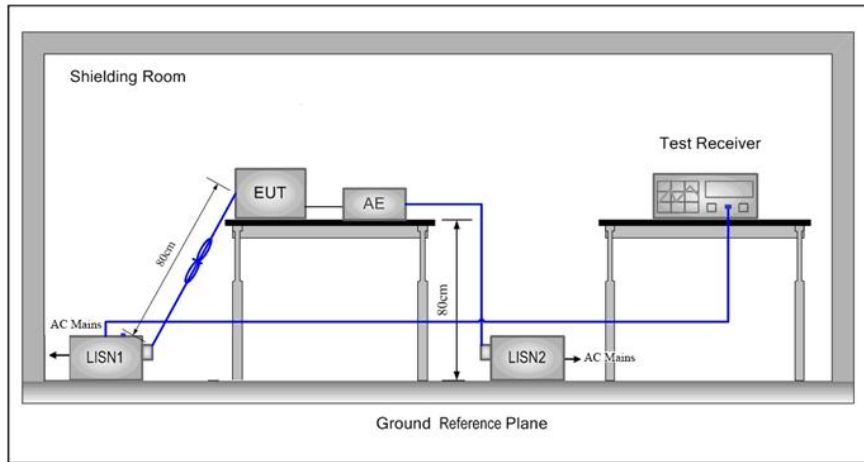


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup

Conducted Emissions setup



5.2 Test Environment

Operating Environment for RF Conducted test:

Temperature:	24°C
Humidity:	54% RH
Atmospheric Pressure:	101kPa

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
TX mode:	The EUT transmitted the continuous signal at the specific channel(s).			

Test mode:

Pre-scan under all rate at lowest channel 1

Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power(dBm)	15.74	15.76	15.98	16.09				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power(dBm)	15.11	15.10	15.08	15.01	14.99	14.68	14.63	14.59
Mode	802.11n (HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power(dBm)	14.38	14.31	14.30	14.28	14.25	14.20	14.17	14.12

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).

6 General Information

6.1 Client Information

Applicant:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Applicant:	6th Floor, Building i, Jinchangda Science Park, Shanwei Village, Zhangkengjing, Guanlan Street, Longhua New District, Shenzhen
Manufacturer:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Manufacturer:	6th Floor, Building i, Jinchangda Science Park, Shanwei Village, Zhangkengjing, Guanlan Street, Longhua New District, Shenzhen
Factory:	SHENZHEN TOUMEI TECHNOLOGY CO., LTD
Address of Factory:	6th Floor, Building i, Jinchangda Science Park, Shanwei Village, Zhangkengjing, Guanlan Street, Longhua New District, Shenzhen

6.2 General Description of EUT

Product Name:	Smart Projector
Model No.:	C800S, C800, C800W, C800i, V3, V5, V5X, V6, V7, V8, V9, Q1, Q3, Q5, Q6, Q8, C1, C2, C3, C4, C5, C6, C7, C8, T5, T6, T7, T8, T9, X1, X2, X3, X4, X5, X6, X7, X8, X9, S1, S2, S3, S4, S5, S6, S7, S8, S9, K1, K2, K3, K4, K5, K6, K7, K8, K9, A3, A4, A5, A6, A7, A8, A9
Test Model No.:	C800
Trade mark:	TOUMEI
EUT Supports Radios application:	BT 4.2 Dual mode, 2402-2480MHz; 2.4G WiFi, 802.11b/g/n(20MHz), 2412-2462MHz
Power Supply:	Adapter: Model: AW018WR-0500300UV Input: 100-240V~50/60Hz 0.5A Output: 5V 3A
Sample Received Date:	Jan. 09, 2019
Sample tested Date:	Jan. 28, 2019 to May 14, 2019

6.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 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): OFDM (64QAM, 16QAM, QPSK, BPSK)
Hardware Version:	D306_V1.1(manufacturer declare)
Firmware Version:	05(manufacturer declare)
Test Power Grade:	N/A
Test Software of EUT:	Ampak RFTesTool,VER:5.4(manufacturer declare)
Antenna Type:	FPC antenna
Antenna Gain:	1dBi
Test Voltage:	AC 120V, 60Hz

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		

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	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	03-02-2018 03-01-2019	03-01-2019 02-28-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-02-2018 03-01-2019	03-01-2019 02-28-2020
Signal Generator	Keysight	N5182B	MY53051549	03-02-2018 03-01-2019	03-01-2019 02-28-2020
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
DC Power	Keysight	E3642A	MY54426035	03-02-2018 03-01-2019	03-01-2019 02-28-2020
PC-1	Lenovo	R4960d	---	03-02-2018 03-01-2019	03-01-2019 02-28-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-02-2018 03-01-2019	03-01-2019 02-28-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-02-2018 03-01-2019	03-01-2019 02-28-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-02-2018 03-01-2019	03-01-2019 02-28-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-02-2018 03-01-2019	03-01-2019 02-28-2020
BT&WI-FI Automatic test software	JS Tonscend	JS1120-2	---	03-02-2018 03-01-2019	03-01-2019 02-28-2020
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	05-25-2018	05-24-2019
Temperature/ Humidity Indicator	Defu	TH128	/	07-02-2018	07-01-2019
Communication test set	Agilent	E5515C	GB47050 534	03-02-2018 03-01-2019	03-01-2019 02-28-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
LISN	R&S	ENV216	100098	05-11-2018 05-08-2019	05-10-2019 05-06-2020
LISN	schwarzbeck	NNLK8121	8121-529	05-11-2018 05-08-2019	05-10-2019 05-06-2020
Voltage Probe	R&S	ESH2-Z3 0299.7810.56	100042	06-13-2017	06-11-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-30-2018	05-29-2019
ISN	TESEQ	ISN T800	30297	01-16-2019	01-15-2020

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	---	06-04-2016	06-03-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-30-2018	07-29-2019
Microwave Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Microwave Preamplifier	Tonscend	EMC051845S E	980380	01-16-2019	01-15-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-03-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	374	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041.6041	08-08-2018	08-07-2019
Loop Antenna	ETS	6502	00071730	06-22-2017	06-21-2019
Spectrum Analyzer	R&S	FSP40	100416	05-11-2018 05-08-2019	05-10-2019 05-06-2020
Receiver	R&S	ESCI	100435	05-25-2018	05-24-2019
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/1071 1112	---	01-09-2019	01-08-2020
LISN	schwarzbeck	NNBM8125	81251547	05-11-2018 05-08-2019	05-10-2019 05-06-2020
LISN	schwarzbeck	NNBM8125	81251548	05-11-2018 05-08-2019	05-10-2019 05-06-2020
Signal Generator	Agilent	E4438C	MY45095744	03-02-2018 03-01-2019	03-01-2019 02-28-2020
Signal Generator	Keysight	E8257D	MY53401106	03-02-2018 03-01-2019	03-01-2019 02-28-2020
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050534	03-02-2018 03-01-2019	03-01-2019 02-28-2020
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
Communication test set	R&S	CMW500	104466	01-18-2019	01-17-2020
High-pass filter	Sinoscite	FL3CX03WG1 8NM12-0398-002	---	01-09-2019	01-08-2020
High-pass filter	MICRO-TRONICS	SPA-F-63029-4	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA0 9CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA0 8CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA0 4CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA0 3CL12-0394-001	---	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	06-20-2018	06-19-2019
Receiver	Keysight	N9038A	MY57290136	03-28-2018 03-27-2019	03-27-2019 03-25-2020
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-28-2018 03-27-2019	03-27-2019 03-25-2020
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-28-2018 03-27-2019	03-27-2019 03-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-075	04-25-2018	04-23-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-23-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-23-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-23-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-829	04-25-2018	04-23-2021
Communication Antenna	Schwarzbeck	CLSA 0110L	1014	02-15-2018 02-14-2019	02-14-2019 02-13-2020
Biconical antenna	Schwarzbeck	VUBA 9117	9117-381	04-25-2018	04-23-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-08-2021
Preamplifier	EMCI	EMC184055SE	980596	06-20-2018	06-19-2019
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
Preamplifier	EMCI	EMC001330	980563	06-20-2018	06-19-2019
Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	05-02-2018 04-30-2019	05-01-2019 04-28-2020
Signal Generator	KEYSIGHT	E8257D	MY53401106	03-02-2018 03-01-2019	03-01-2019 02-28-2020
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-15-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-08-2021
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:

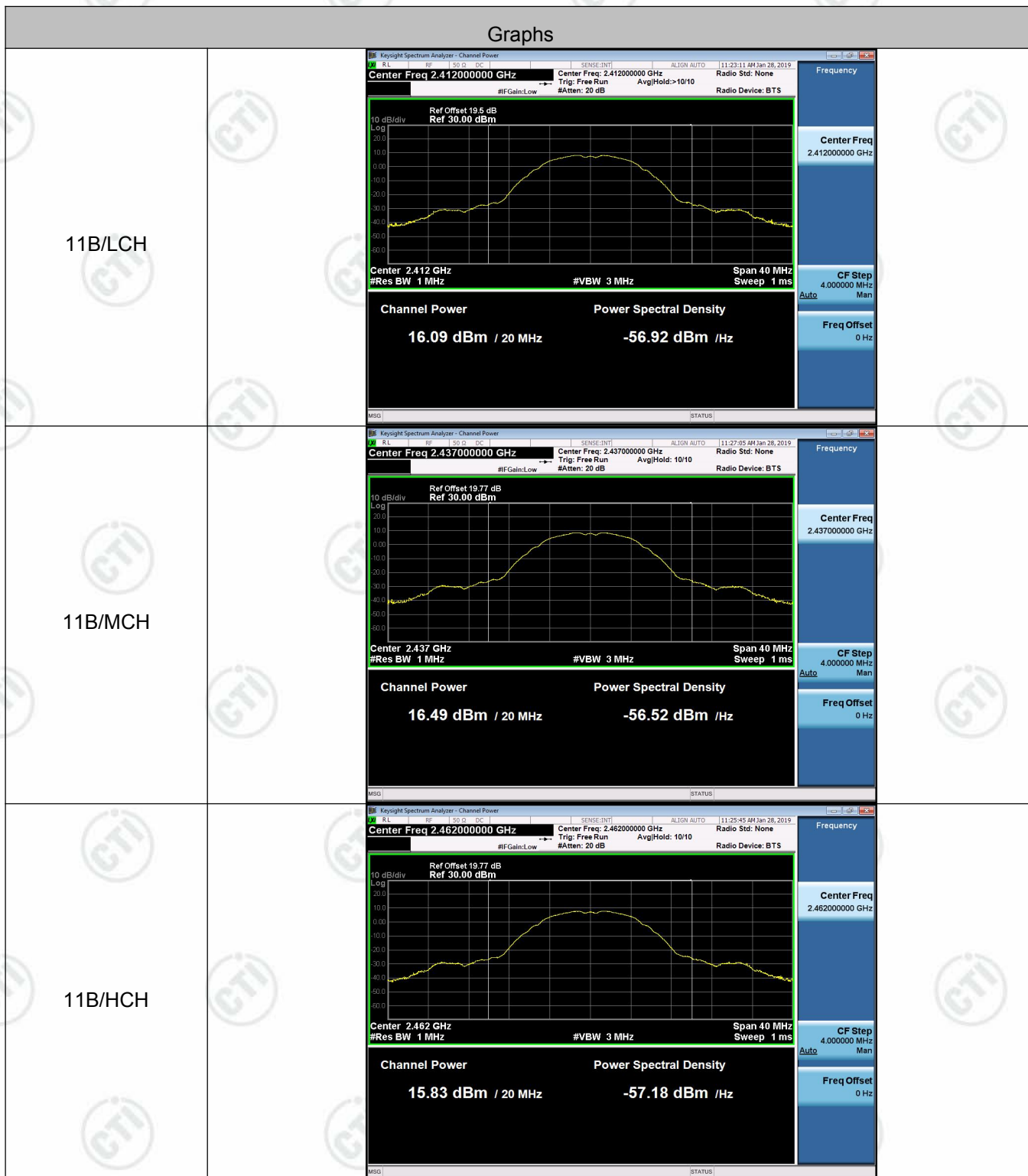
Test Requirement	Test method	Test item	Verdict	Note
Part15C Section 15.247 (b)(3)	ANSI C63.10	Conducted Peak Output Power	PASS	Appendix A)
Part15C Section 15.247 (a)(2)	ANSI C63.10	6dB Occupied Bandwidth	PASS	Appendix B)
Part15C Section 15.247(d)	ANSI C63.10	Band-edge for RF Conducted Emissions	PASS	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 15.203/15.247 (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)

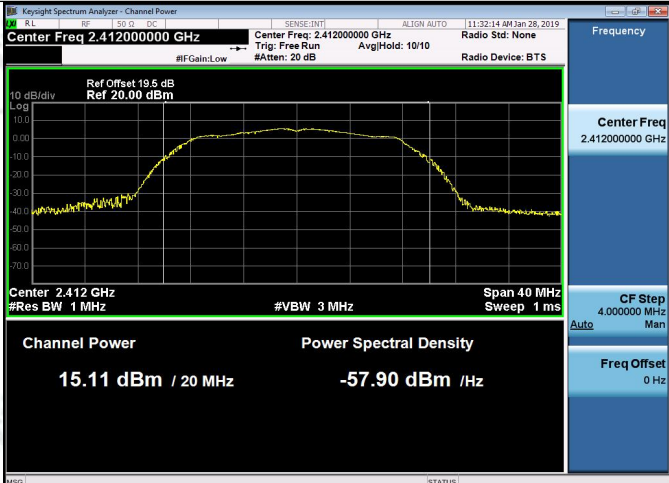
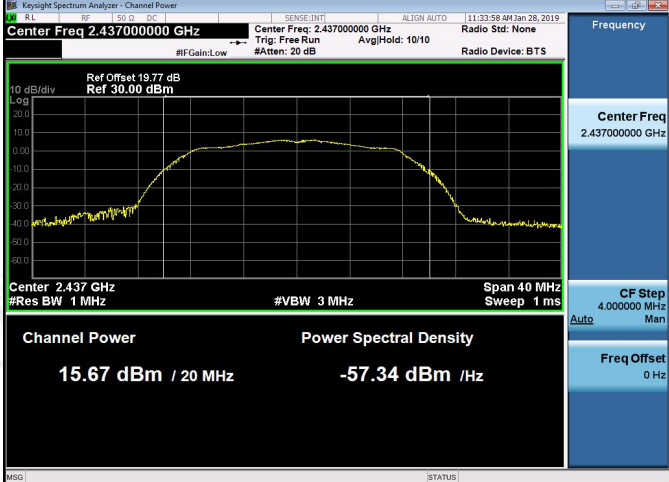
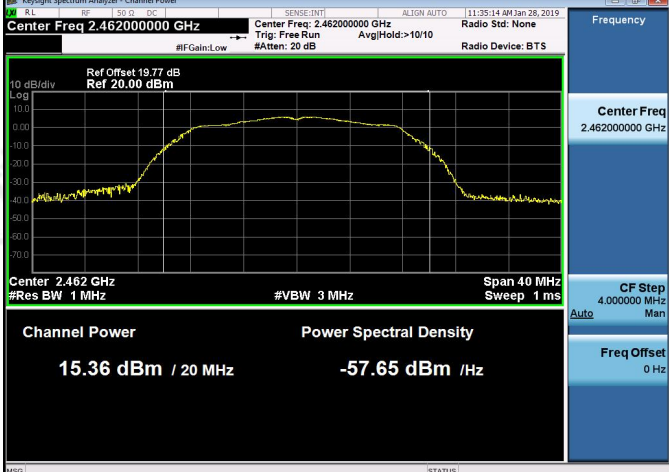
Appendix A): Conducted Peak Output Power

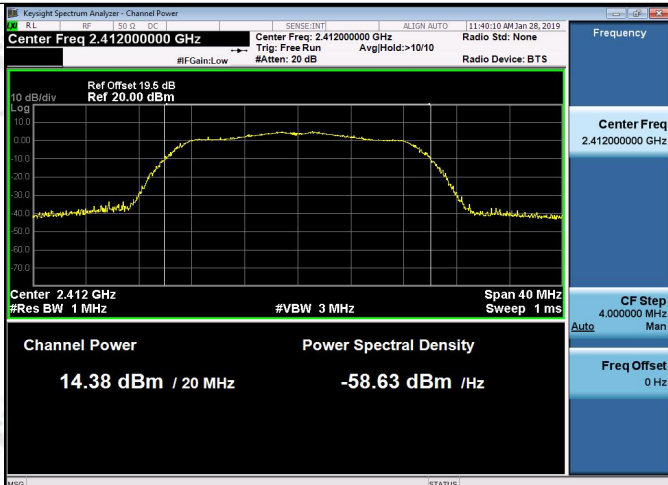
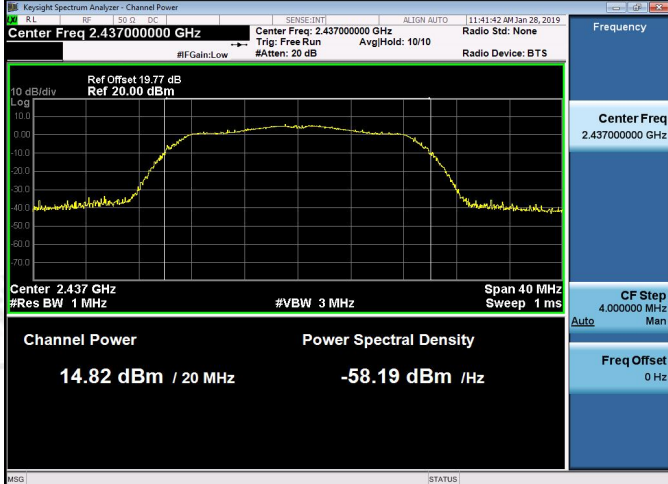
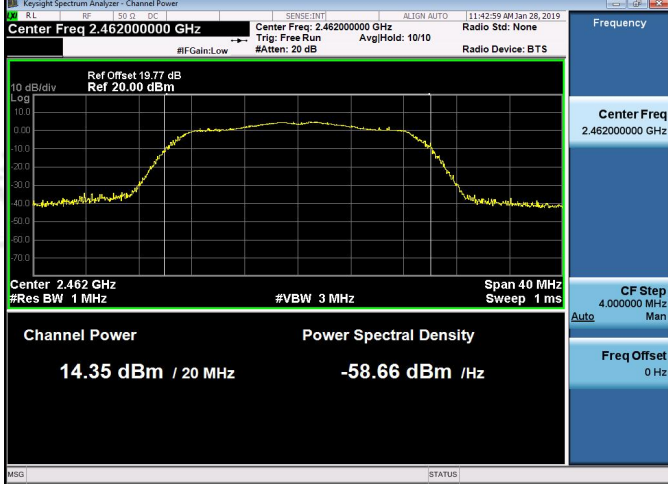
Result Table

Mode	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	LCH	16.09	PASS
11B	MCH	16.49	PASS
11B	HCH	15.83	PASS
11G	LCH	15.11	PASS
11G	MCH	15.67	PASS
11G	HCH	15.36	PASS
11N20SISO	LCH	14.38	PASS
11N20SISO	MCH	14.82	PASS
11N20SISO	HCH	14.35	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 15.11 dBm / 20 MHz Power Spectral Density -57.90 dBm / Hz
11G/MCH	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 30.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 15.67 dBm / 20 MHz Power Spectral Density -57.34 dBm / 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 15.36 dBm / 20 MHz Power Spectral Density -57.65 dBm / Hz

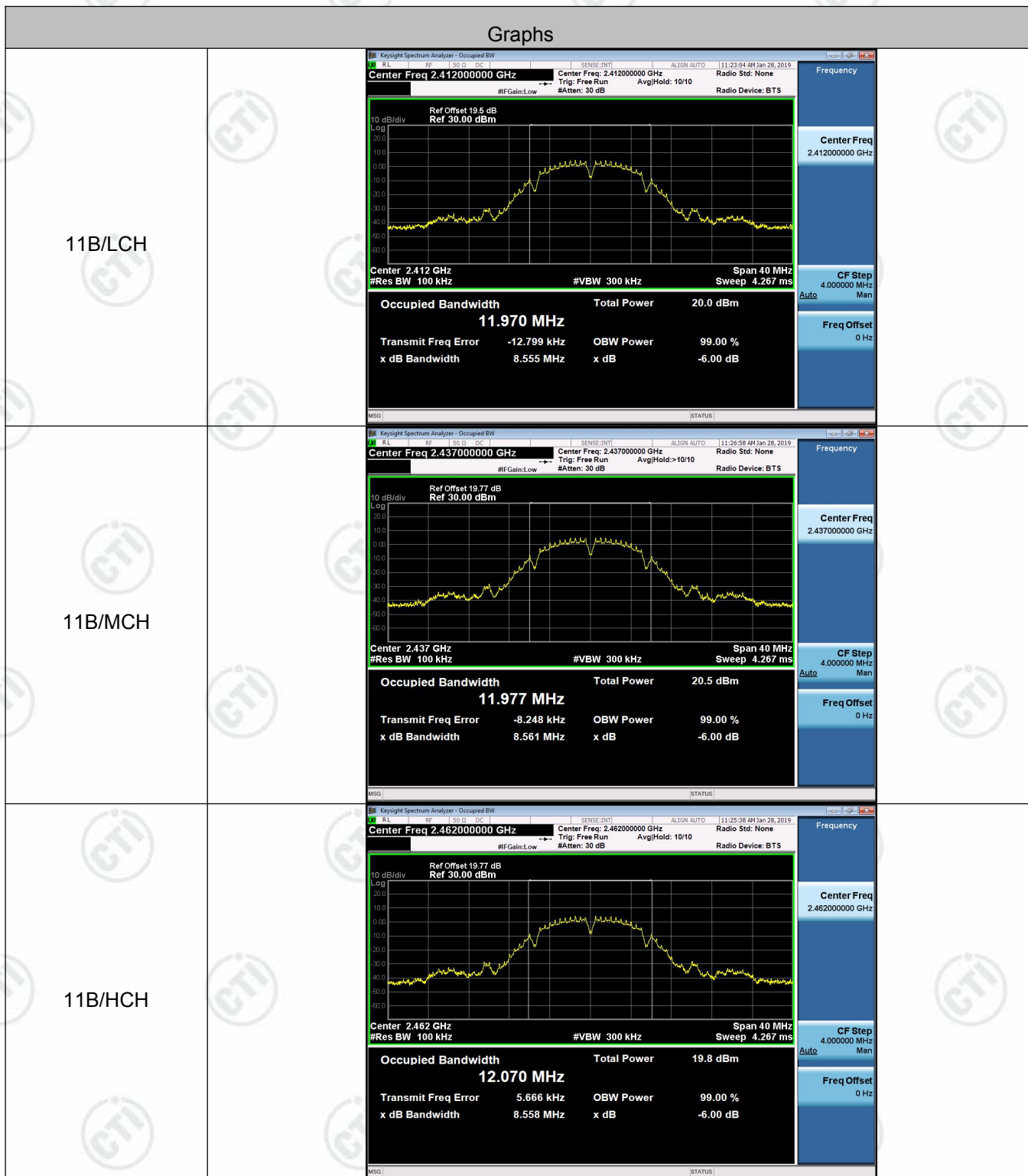
11N20SISO/LCH	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 20.00 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 14.38 dBm / 20 MHz Power Spectral Density -58.63 dBm / Hz
11N20SISO/MCH	 Keysight Spectrum Analyzer - Channel Power Center Freq 2.437000000 GHz Ref Offset 19.77 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 14.82 dBm / 20 MHz Power Spectral Density -58.19 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 #VBW 3 MHz Span 40 MHz Sweep 1 ms Channel Power 14.35 dBm / 20 MHz Power Spectral Density -58.66 dBm / Hz

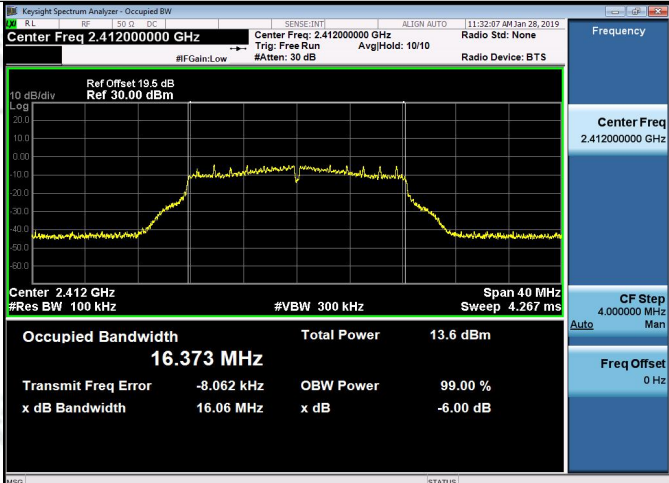
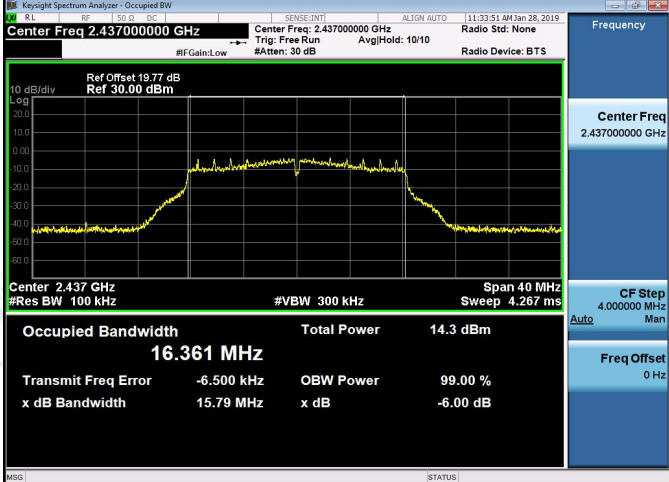
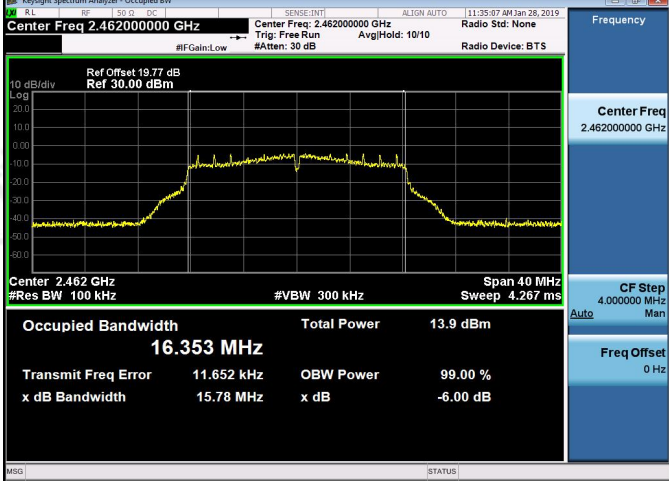
Appendix B): 6dB Occupied Bandwidth

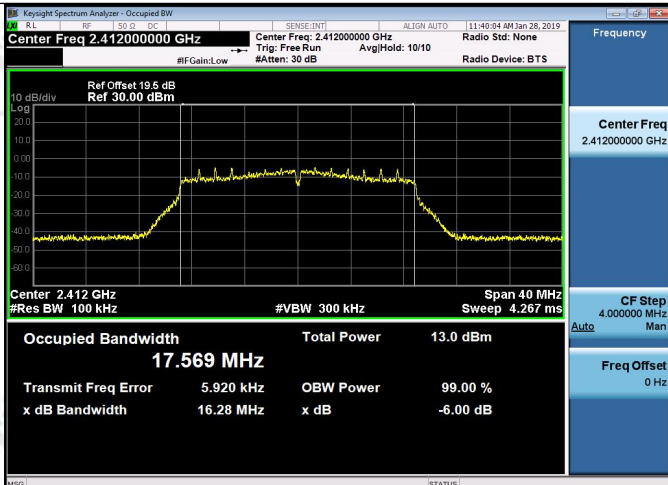
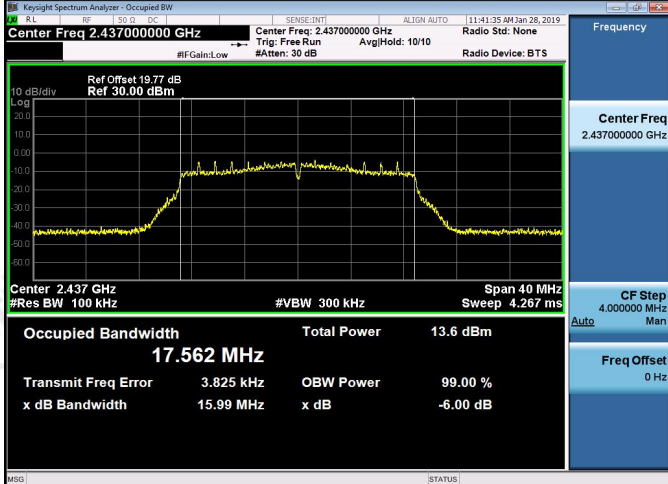
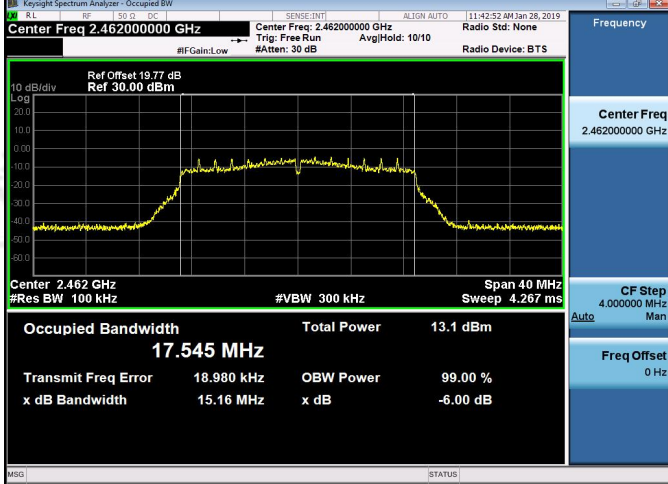
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	8.555	11.970	PASS
11B	MCH	8.561	11.977	PASS
11B	HCH	8.558	12.070	PASS
11G	LCH	16.06	16.373	PASS
11G	MCH	15.79	16.361	PASS
11G	HCH	15.78	16.353	PASS
11N20SISO	LCH	16.28	17.569	PASS
11N20SISO	MCH	15.99	17.562	PASS
11N20SISO	HCH	15.16	17.545	PASS

Test Graph



11G/LCH	 KeySight 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 Occupied Bandwidth 16.373 MHz Total Power 13.6 dBm Transmit Freq Error -8.062 kHz OBW Power 99.00 % x dB Bandwidth 16.06 MHz x dB -6.00 dB
11G/MCH	 KeySight 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 16.361 MHz Total Power 14.3 dBm Transmit Freq Error -6.500 kHz OBW Power 99.00 % x dB Bandwidth 15.79 MHz x dB -6.00 dB
11G/HCH	 KeySight 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 Occupied Bandwidth 16.353 MHz Total Power 13.9 dBm Transmit Freq Error 11.652 kHz OBW Power 99.00 % x dB Bandwidth 15.78 MHz x dB -6.00 dB

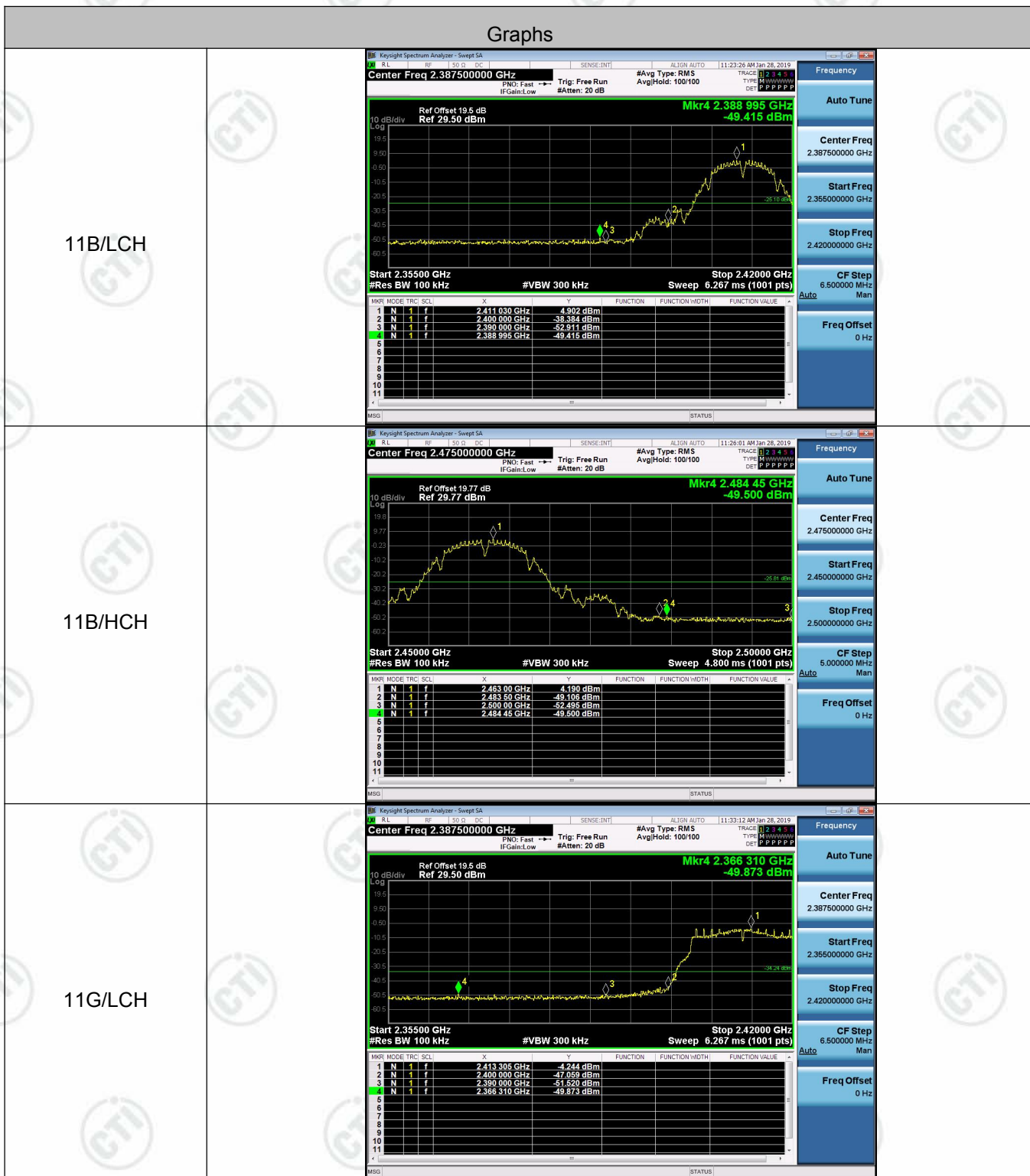
11N20SISO/LCH	 KeySight Spectrum Analyzer - Occupied BW Center Freq 2.412000000 GHz Ref Offset 19.5 dB Ref 30.00 dBm Center 2.412 GHz #Res BW 100 kHz Span 40 MHz Sweep 4.267 ms Occupied Bandwidth 17.569 MHz Total Power 13.0 dBm Transmit Freq Error 5.920 kHz OBW Power 99.00 % x dB Bandwidth 16.28 MHz x dB -6.00 dB
11N20SISO/MCH	 KeySight 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 17.562 MHz Total Power 13.6 dBm Transmit Freq Error 3.825 kHz OBW Power 99.00 % x dB Bandwidth 15.99 MHz x dB -6.00 dB
11N20SISO/HCH	 KeySight 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 17.545 MHz Total Power 13.1 dBm Transmit Freq Error 18.980 kHz OBW Power 99.00 % x dB Bandwidth 15.16 MHz x dB -6.00 dB

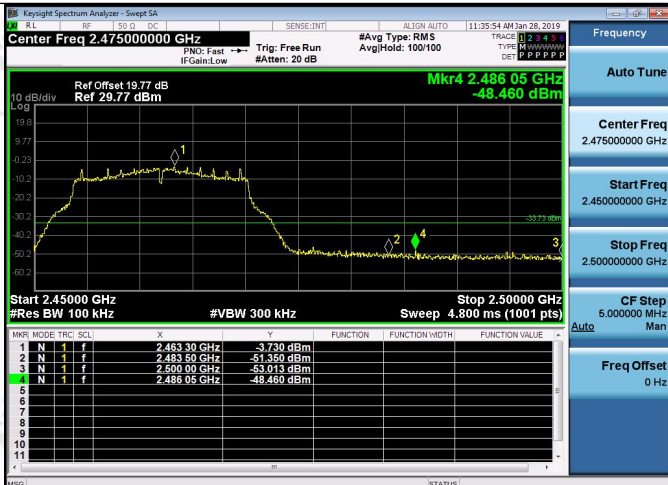
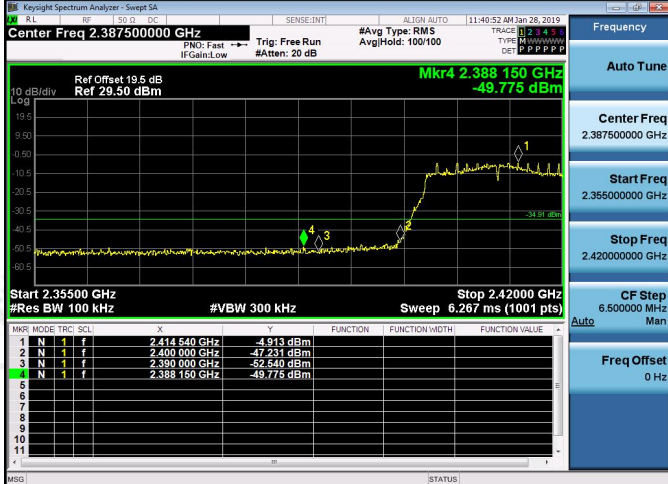
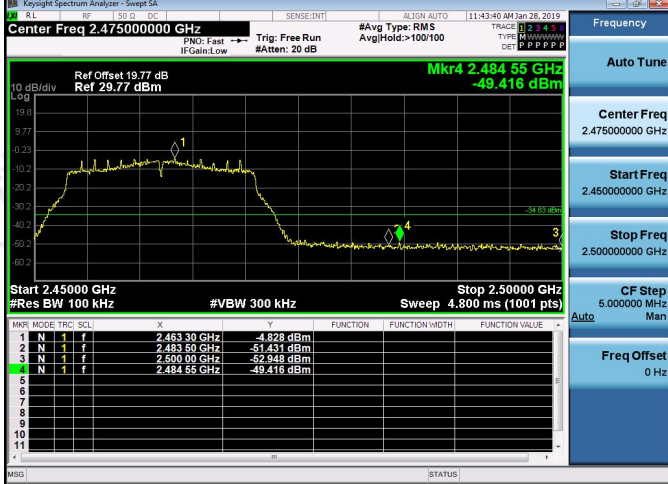
Appendix C): Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.902	-49.415	-25.1	PASS
11B	HCH	4.190	-49.500	-25.81	PASS
11G	LCH	-4.244	-49.873	-34.24	PASS
11G	HCH	-3.730	-48.460	-33.73	PASS
11N20SISO	LCH	-4.913	-49.775	-34.91	PASS
11N20SISO	HCH	-4.828	-49.416	-34.83	PASS

Test Graph



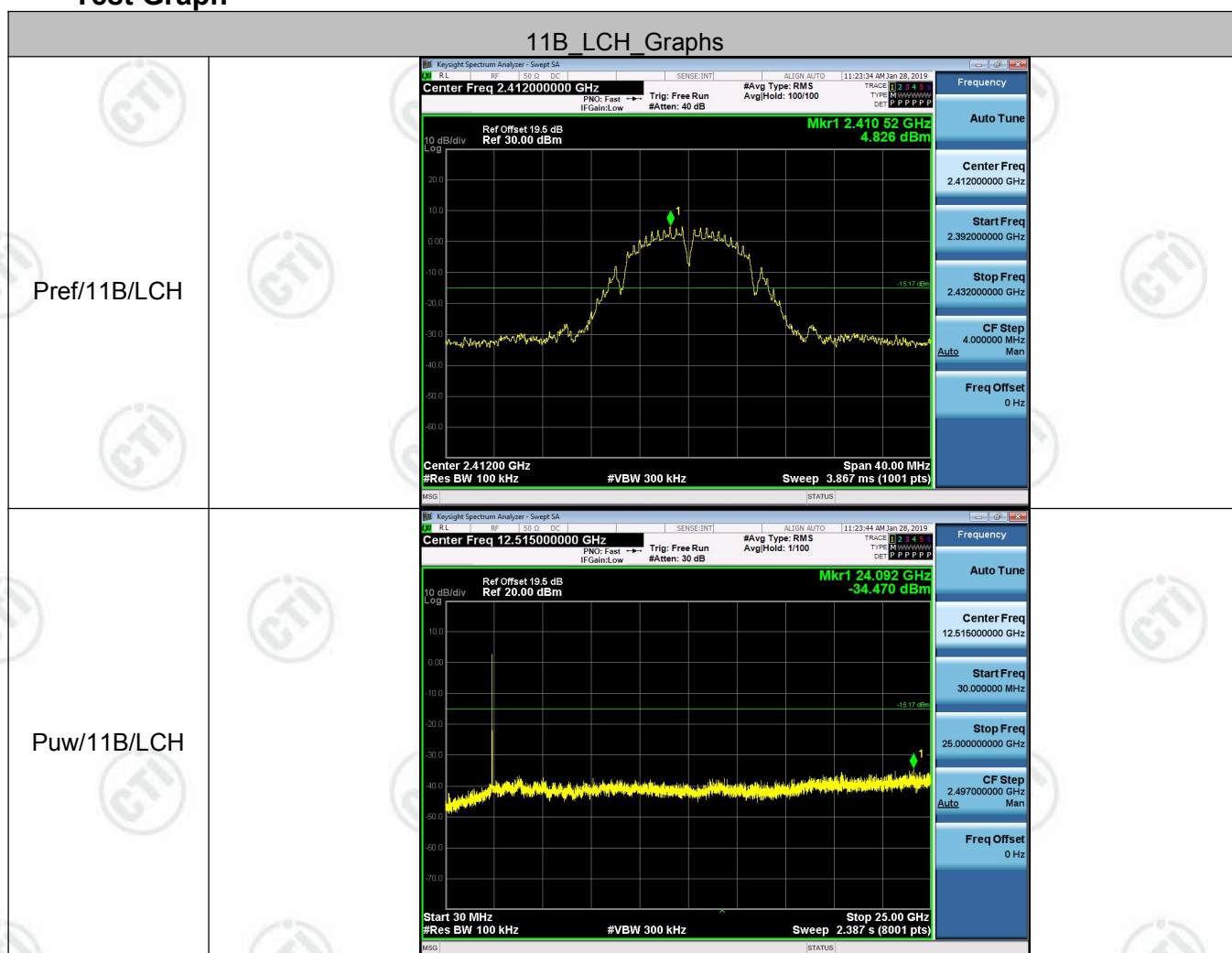
11G/HCH	
11N20SISO/LCH	
11N20SISO/HCH	

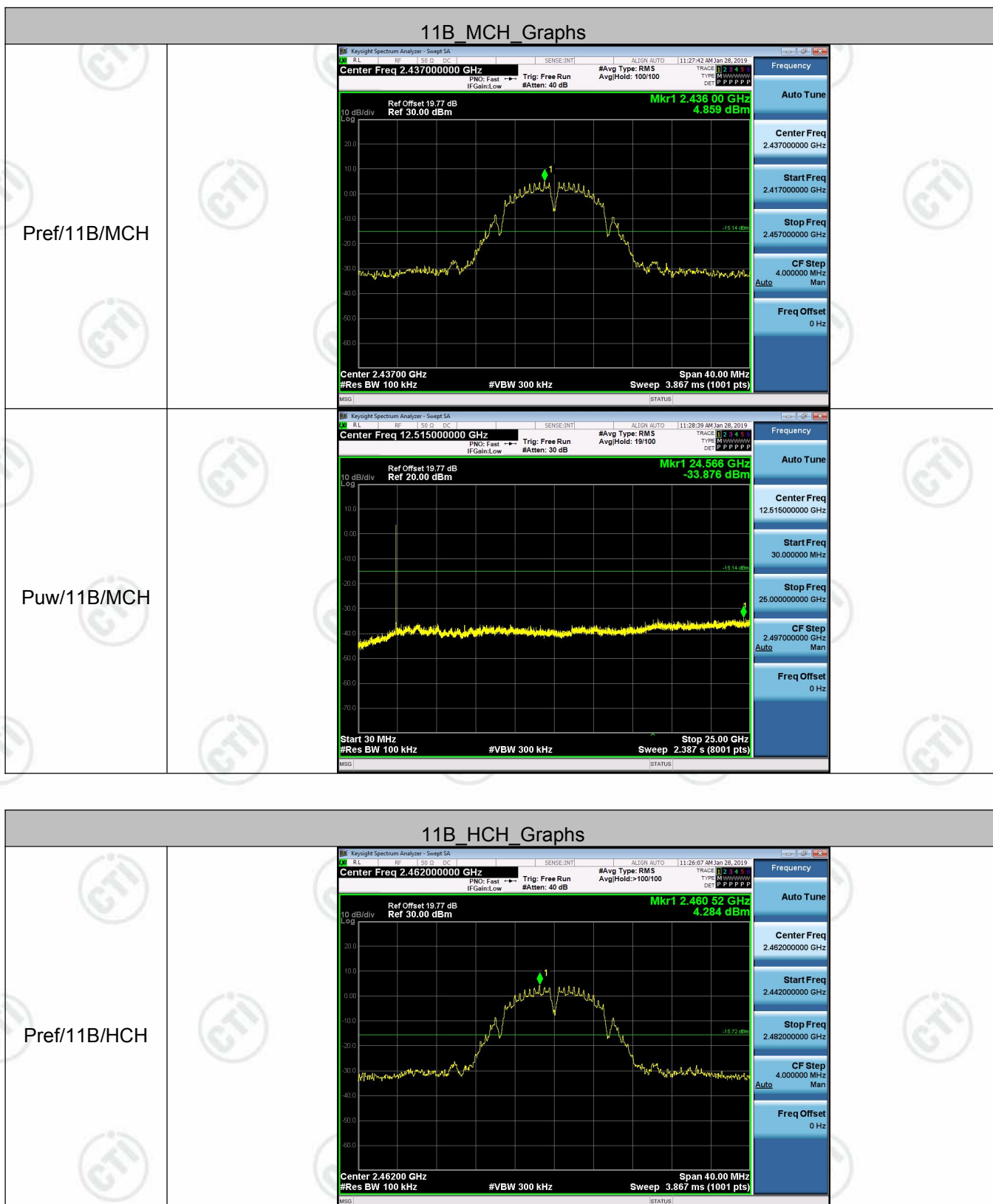
Appendix D): RF Conducted Spurious Emissions

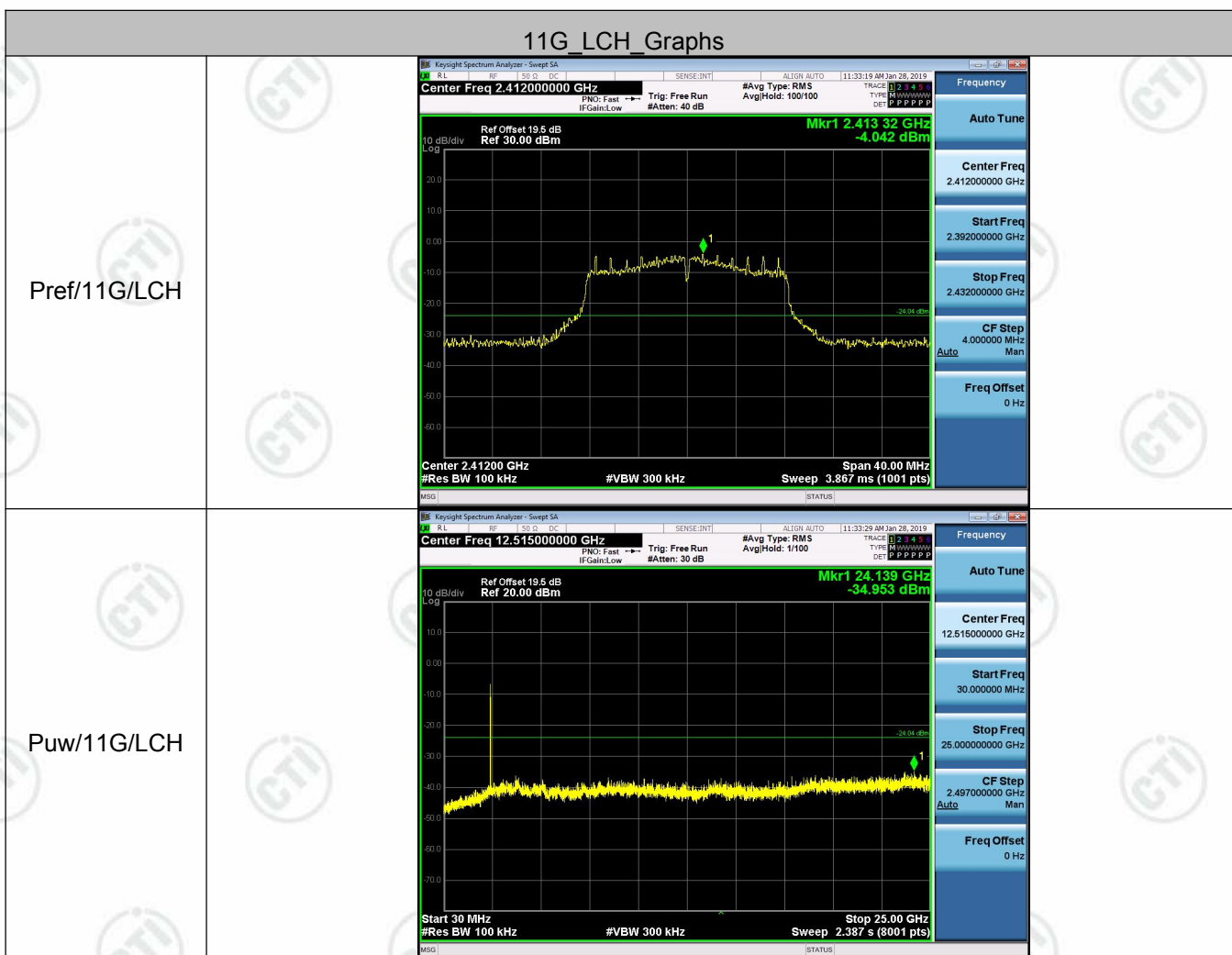
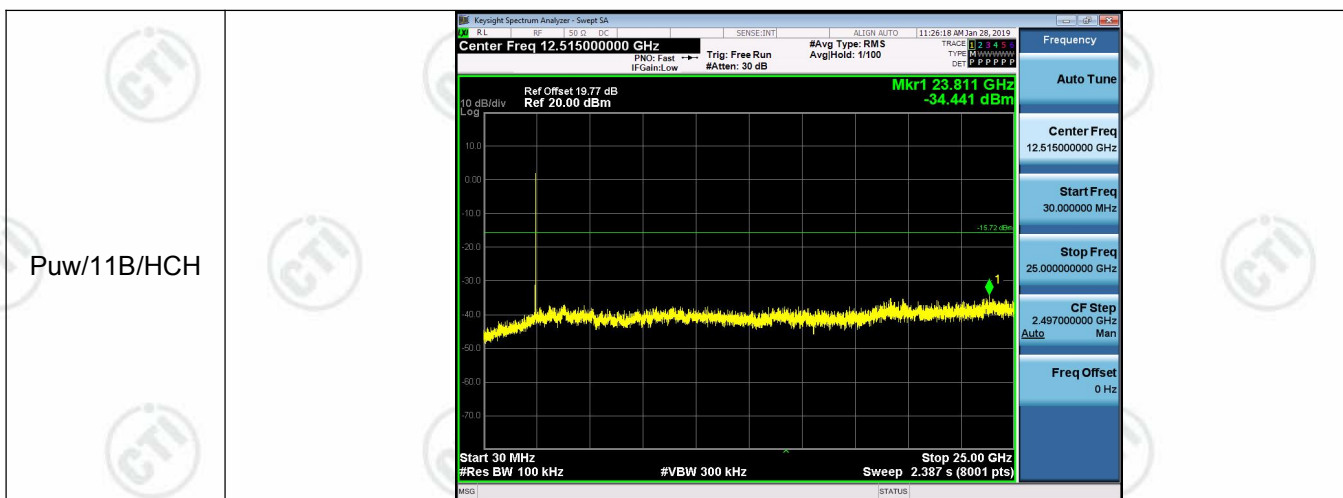
Result Table

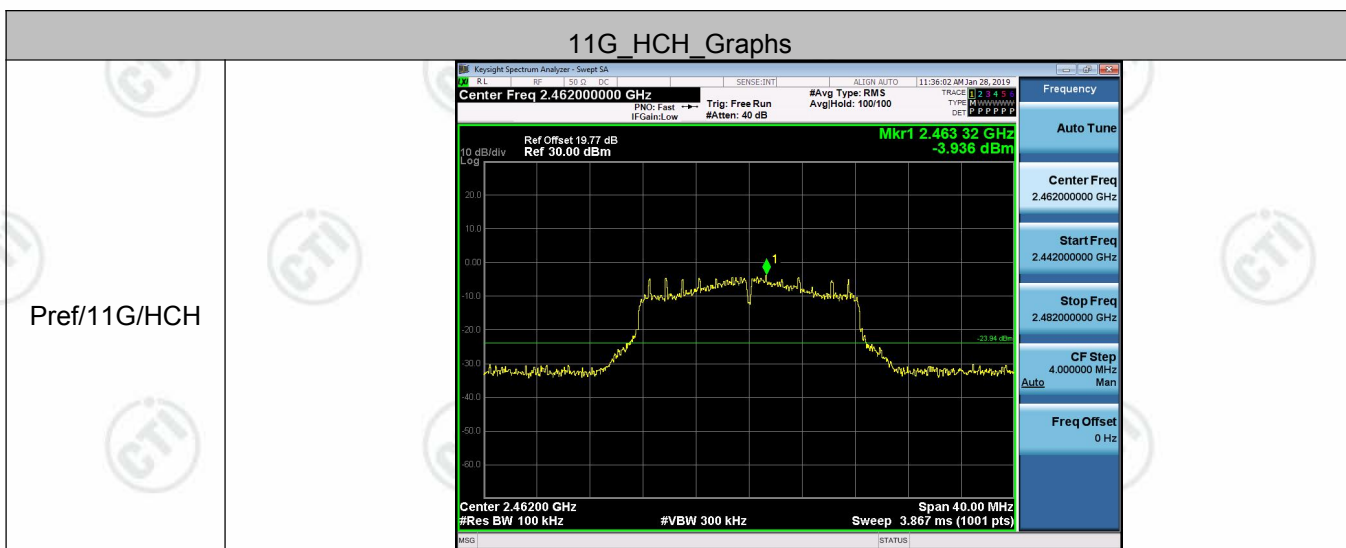
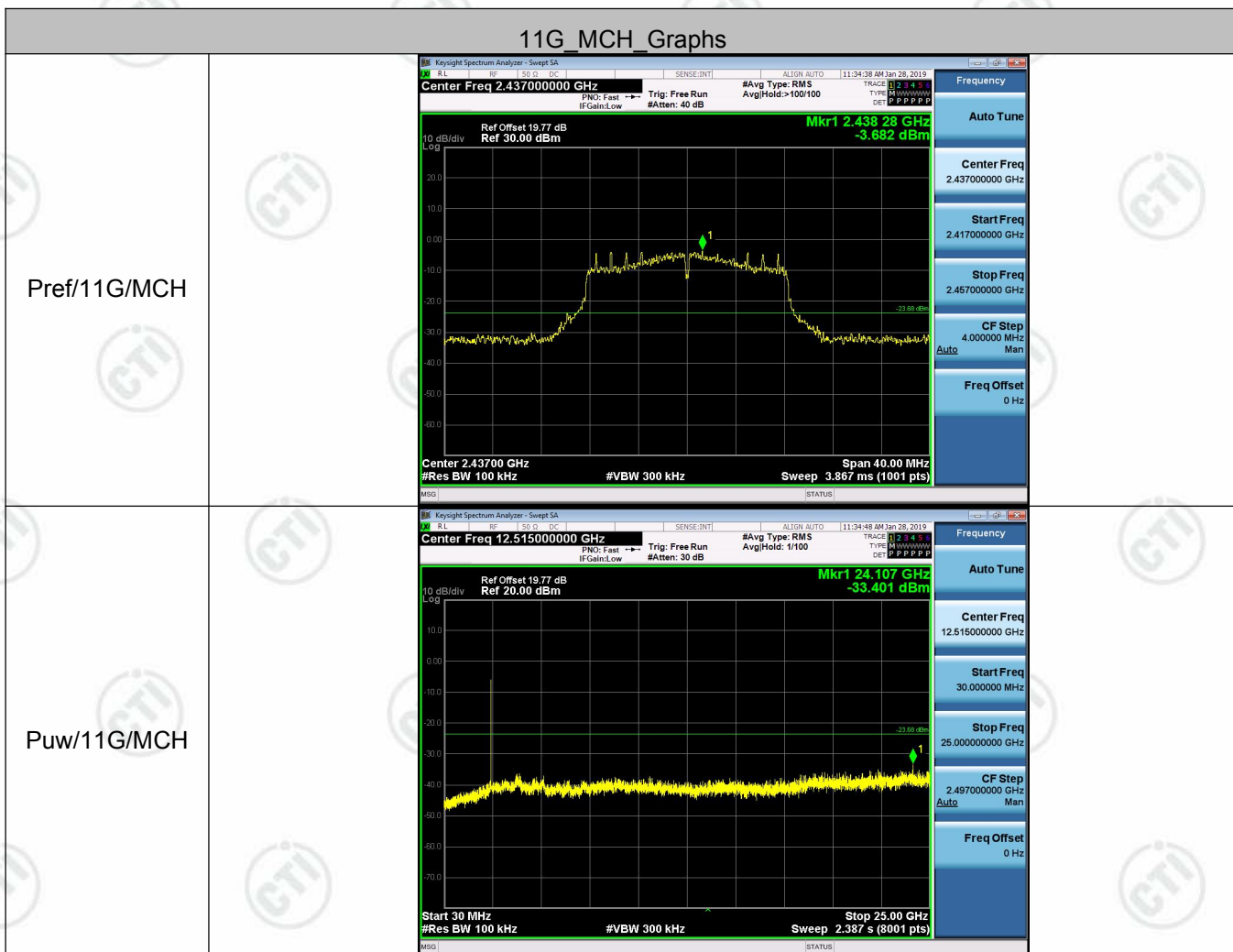
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	4.826	<Limit	PASS
11B	MCH	4.859	<Limit	PASS
11B	HCH	4.284	<Limit	PASS
11G	LCH	-4.042	<Limit	PASS
11G	MCH	-3.682	<Limit	PASS
11G	HCH	-3.936	<Limit	PASS
11N20SISO	LCH	-4.626	<Limit	PASS
11N20SISO	MCH	-3.843	<Limit	PASS
11N20SISO	HCH	-4.337	<Limit	PASS

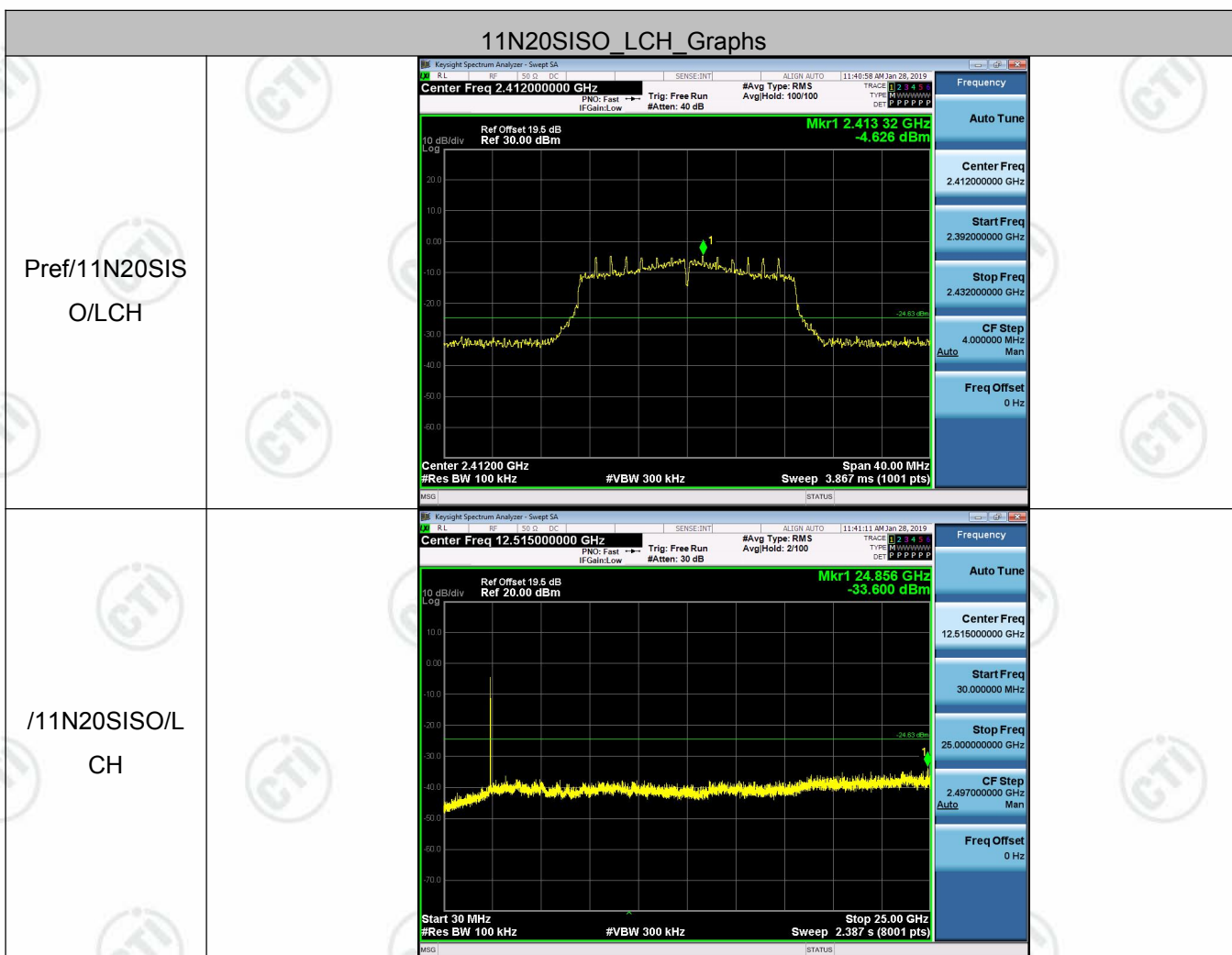
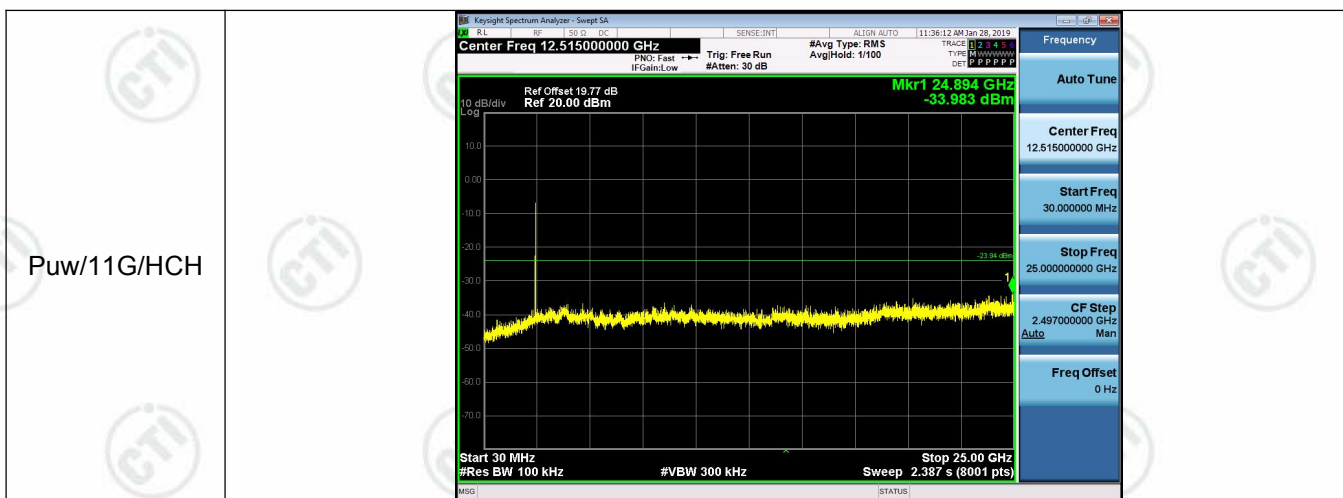
Test Graph

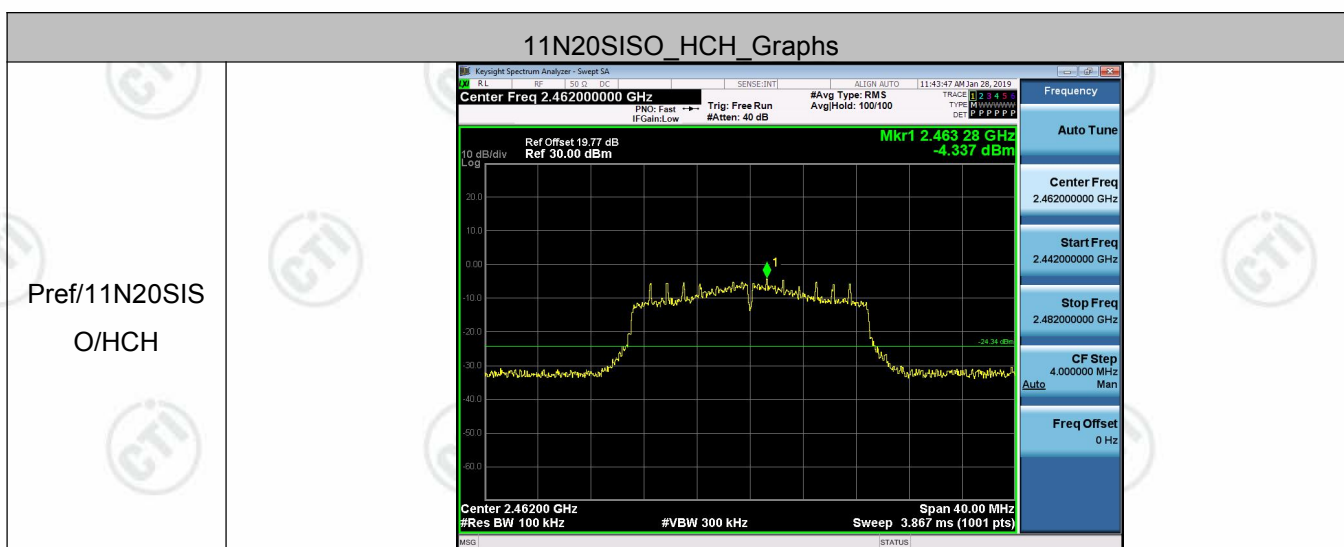
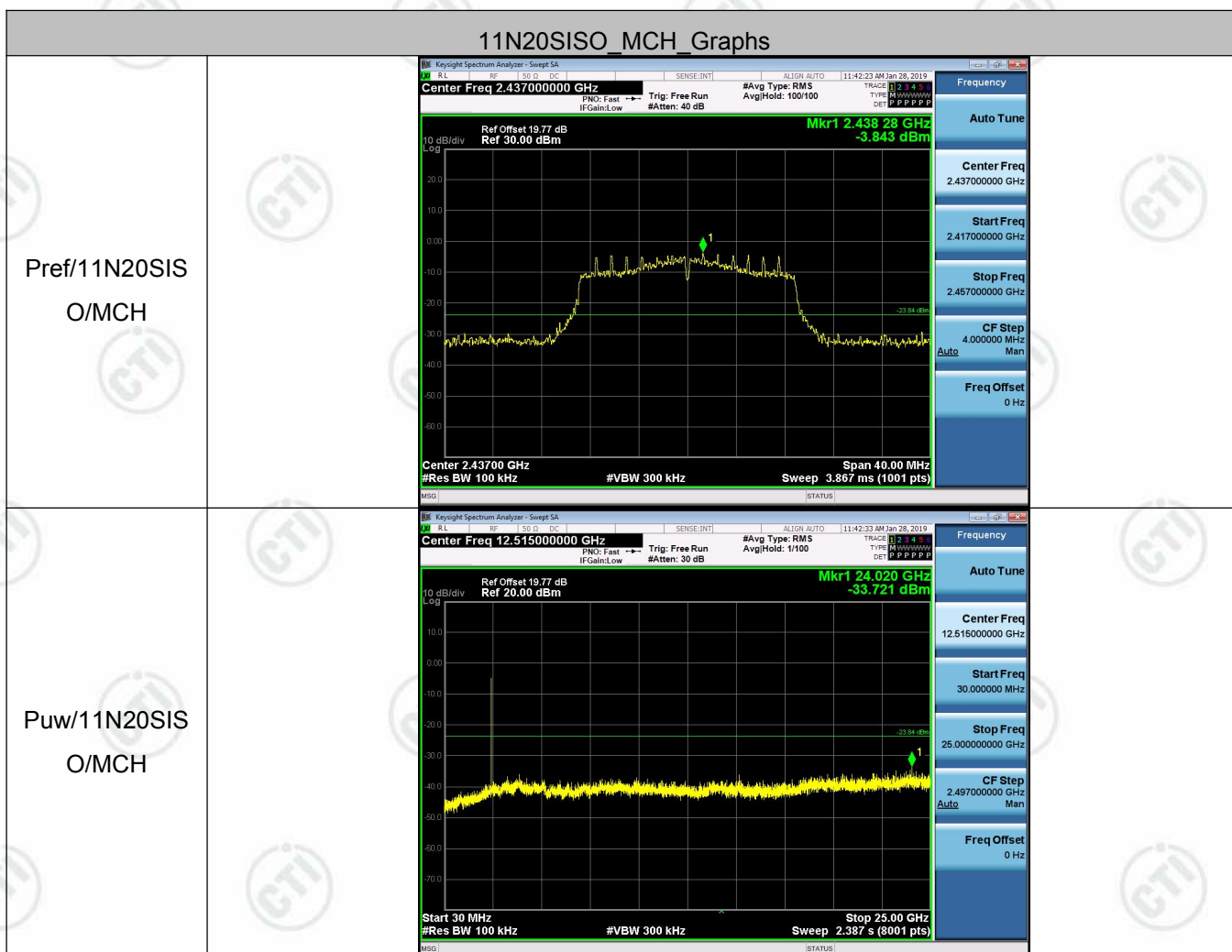


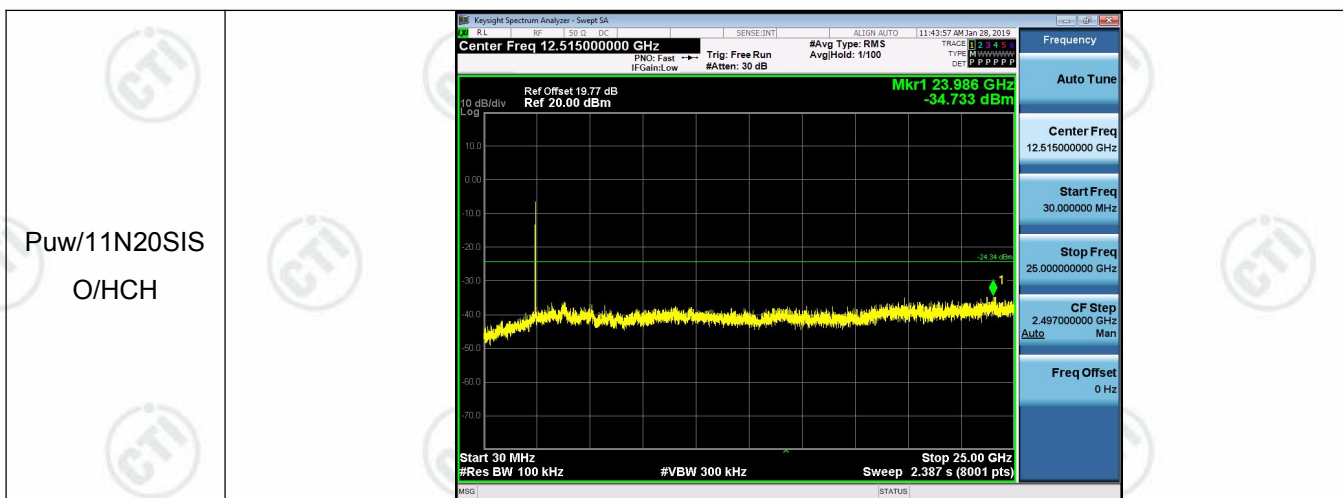












Appendix E): Power Spectral Density

Result Table

Mode	Channel	Power Spectral Density [dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	LCH	-9.588	8	PASS
11B	MCH	-8.868	8	PASS
11B	HCH	-9.510	8	PASS
11G	LCH	-15.619	8	PASS
11G	MCH	-15.190	8	PASS
11G	HCH	-15.180	8	PASS
11N20SISO	LCH	-17.092	8	PASS
11N20SISO	MCH	-16.765	8	PASS
11N20SISO	HCH	-16.650	8	PASS