

TEST REPORT

Product : Kami Outdoor Security Camera
Trade mark : Kami
Model/Type reference : YHS.3119
Serial Number : N/A
Report Number : EED32L00154103
FCC ID : 2AFIB-YHS3119
Date of Issue : Oct. 26, 2020
Test Standards : 47 CFR Part 15Subpart C
Test result : PASS

Prepared for:

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Building 18, Lane 55, Chuanhe Road,
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Date:

Oct. 26, 2020



Check No.:3915579242

2 Version

Version No.	Date	Description
00	Oct. 26, 2020	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.

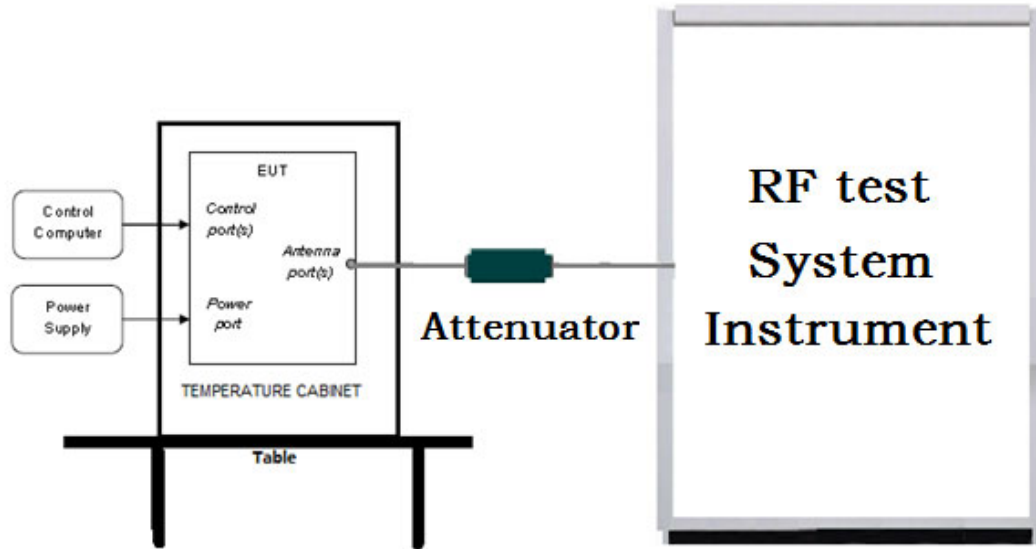
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

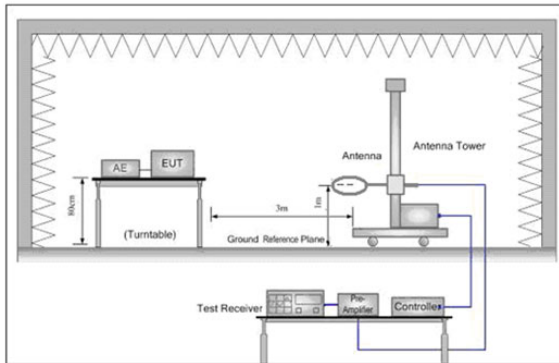


Figure 1. Below 30MHz

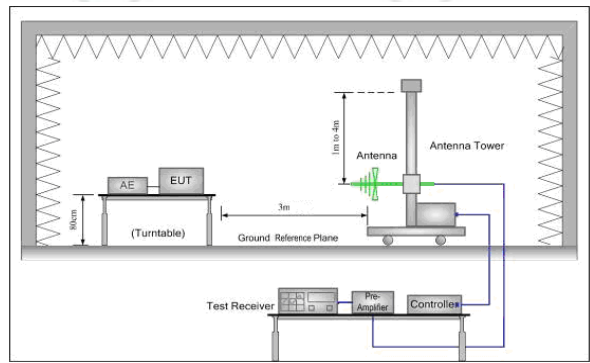


Figure 2. 30MHz to 1GHz

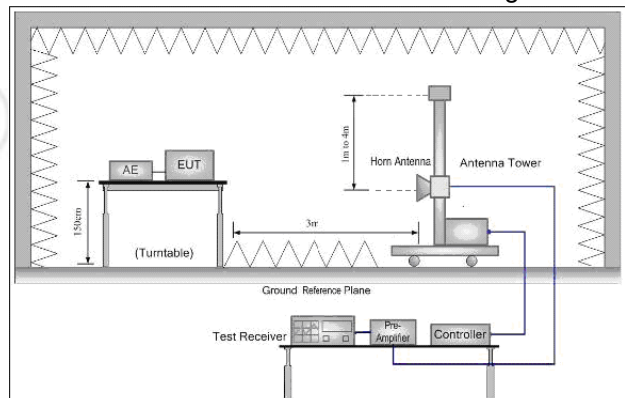
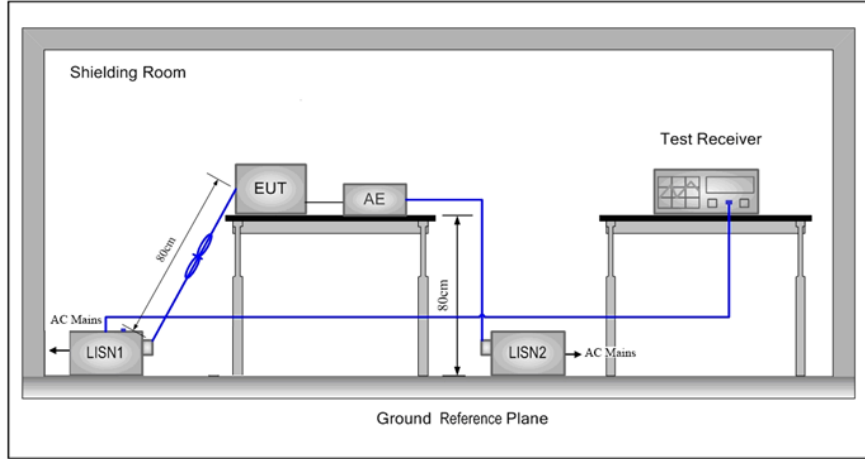


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup
Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	23.0 °C
Humidity:	53 % 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

Mode	802.11b				X				
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps					
Power(dBm)	18.28	18.30	18.35	18.38					
Mode	802.11g								
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
Power(dBm)	17.31	17.29	17.25	17.23	17.20	17.19	17.15	17.12	
Mode	802.11n (HT20)								
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	
Power(dBm)	16.71	16.68	16.65	16.63	16.61	16.58	16.54	16.52	
Mode	802.11n (HT40)								
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	
Power(dBm)	15.39	15.37	15.36	15.32	15.30	15.29	15.27	15.25	

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:	Shanghai Xiaoyi Technology Co., Ltd.
Address of Applicant:	Building 18, Lane 55, Chuanhe Road, China(Shanghai) Pilot Free Trade Zone, Shanghai ,China, 201203
Manufacturer:	YI Technologies, Inc.
Address of Manufacturer:	182 South Murphy Ave, Floor #2, Sunnyvale CA 94086 United States

6.2 General Description of EUT

Product Name:	Kami Outdoor Security Camera
Model No.(EUT):	YHS.3119
Trade Mark:	Kami
EUT Supports Radios application:	2.4G WiFi, 802.11b/g/n(20MHz)/n(40MHz) ,2412-2462MHz
Power Supply:	AC 230V, 50Hz
Sample Received Date:	Jun. 13, 2019
Sample tested Date:	Jun. 13, 2019 to Aug. 05, 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:	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:	N/A
Test Software of EUT:	N/A
Antenna Type and Gain:	Type: FPC Antenna Gain:3.48dBi
Test Voltage:	AC 230V, 50Hz

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

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

6.4 Description of Support Units

The EUT has been tested 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 x 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)
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-28-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-28-2020
Attenuator	HuaXiang	SHX370	15040701	03-01-2019	02-28-2020
Signal Generator	Keysight	N5181A	MY46240094	03-01-2019	02-28-2020
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	10-12-2018	10-11-2019
High-pass filter	Sinoscite	FL3CX03WG18 NM12-0398-002	---	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	FL5CX01CA09 CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08 CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04 CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03 CL12-0394-001	---	01-09-2019	01-08-2020
Communication test set	R&S	CMW500	107929	04-28-2019	04-26-2020
DC Power	Keysight	E3642A	MY54426035	03-01-2019	02-28-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-28-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-01-2019	02-28-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-01-2019	02-28-2020
BT&WI-FI Automatic test software	JS Tonscend	JSTS1120-2	---	03-01-2019	02-28-2020
high-low temperature test chamber	DongGuangQinZhuo	LK-80GA	QZ20150611 879	03-01-2019	02-28-2020

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	05-18-2020
Temperature/ Humidity Indicator	Defu	TH128	/	06-14-2019	06-12-2020
Communication test set	Agilent	E5515C	GB47050 534	03-01-2019	02-28-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
LISN	R&S	ENV216	100098	05-08-2019	05-06-2020
LISN	schwarzbeck	NNLK8121	8121-529	05-08-2019	05-06-2020
Voltage Probe	R&S	ESH2-Z3 0299.7810.5 6	100042	06-13-2017	06-11-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-20-2019	05-18-2020
ISN	TESEQ	ISN T800	30297	01-06-2019	01-15-2020
Barometer	changchun	DYM3	1188	06-20-2019	06-18-2020

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	06-17-2020
Receiver	Keysight	N9038A	MY57290136	03-27-2019	03-25-2020
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-27-2019	03-25-2020
Spectrum Analyzer	Keysight	N9030B	MY57140871	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	02-14-2019	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	05-22-2019	5-20-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
Preamplifier	EMCI	EMC001330	980563	05-08-2019	05-06-2020
Preamplifier	Agilent	8449B	3008A02425	08-21-2018	08-20-2019
Temperature/Humidity Indicator	biaozhi	GM1360	EE1186631	05-01-2019	04-30-2020
Signal Generator	KEYSIGHT	E8257D	MY53401106	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

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	05-22-2020
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-617	11-04-2018	11-03-2019
Microwave Preamplifier	Agilent	8449B	3008A024 25	08-21-2018	08-20-2019
Microwave Preamplifier	Tonscend	EMC051845 SE	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	6041.604 1	08-08-2018	08-07-2019
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B- 076	04-25-2018	04-25-2021
Spectrum Analyzer	R&S	FSP40	100416	04-28-2019	04-26-2020
Receiver	R&S	ESCI	100435	05-20-2019	05-18-2020
Receiver	R&S	ESCI7	100938- 003	11-23-2018	11-22-2019
Multi device Controller	maturio	NCD/070/107 11112	---	01-09-2019	01-08-2020
Signal Generator	Agilent	E4438C	MY45095 744	03-01-2019	02-28-2020
Signal Generator	Keysight	E8257D	MY53401 106	03-01-2019	02-28-2020
Temperature/ Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050 534	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
High-pass filter	Sinoscite	FL3CX03WG 18NM12- 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

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)


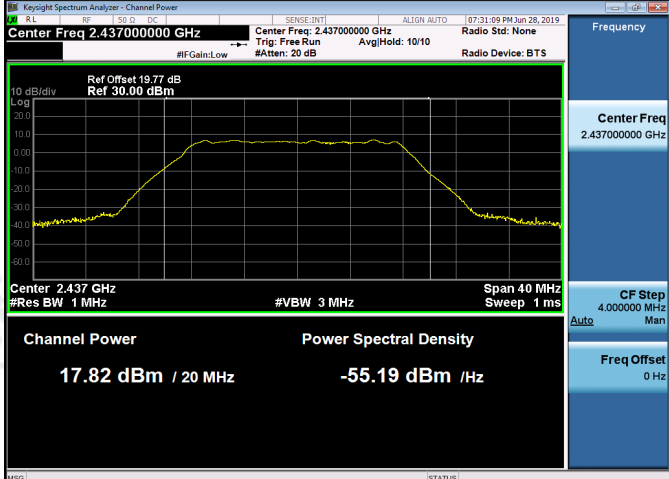
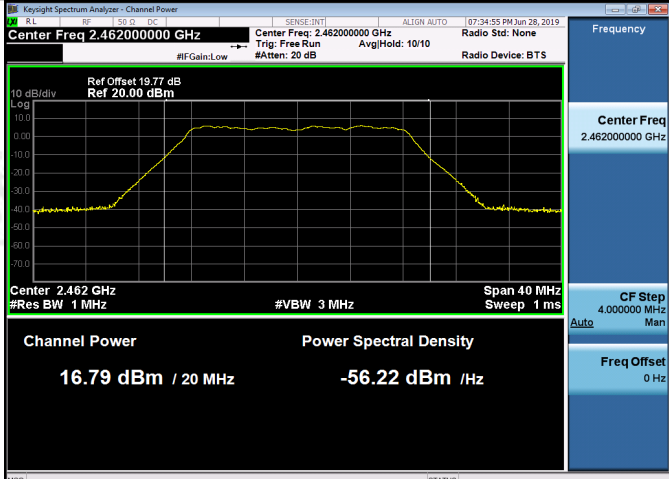
Appendix A): Conducted Peak Output Power

Result Table

Mode	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	LCH	18.38	PASS
11B	MCH	18.41	PASS
11B	HCH	17.52	PASS
11G	LCH	17.31	PASS
11G	MCH	17.82	PASS
11G	HCH	16.79	PASS
11N20SISO	LCH	16.71	PASS
11N20SISO	MCH	16.48	PASS
11N20SISO	HCH	15.9	PASS
11N40SISO	LCH	15.39	PASS
11N40SISO	MCH	15.28	PASS
11N40SISO	HCH	14.96	PASS

Test Graph



<p>11G/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 19.5 dB Ref 30.00 dBm</p> <p>Center Freq 2.41200000 GHz</p> <p>Trig: Free Run AvgHold: 10/10</p> <p>#Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 17.31 dBm / 20 MHz</p> <p>Power Spectral Density: -55.70 dBm / Hz</p>
<p>11G/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center Freq 2.43700000 GHz</p> <p>Trig: Free Run AvgHold: 10/10</p> <p>#Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 17.82 dBm / 20 MHz</p> <p>Power Spectral Density: -55.19 dBm / Hz</p>
<p>11G/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center Freq 2.46200000 GHz</p> <p>Trig: Free Run AvgHold: 10/10</p> <p>#Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 16.79 dBm / 20 MHz</p> <p>Power Spectral Density: -56.22 dBm / Hz</p>

<p>11N20SISO/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 19.5 dB Ref 20.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz</p> <p>Channel Power: 16.71 dBm / 20 MHz</p> <p>Power Spectral Density: -56.30 dBm /Hz</p>
<p>11N20SISO/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>Channel Power: 16.48 dBm / 20 MHz</p> <p>Power Spectral Density: -56.53 dBm /Hz</p>
<p>11N20SISO/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.462000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.462 GHz #Res BW 1 MHz</p> <p>Channel Power: 15.90 dBm / 20 MHz</p> <p>Power Spectral Density: -57.11 dBm /Hz</p>

<p>11N40SISO/LCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.422000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 15.39 dBm / 40 MHz</p> <p>Power Spectral Density: -60.63 dBm / Hz</p>
<p>11N40SISO/MCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 15.28 dBm / 40 MHz</p> <p>Power Spectral Density: -60.74 dBm / Hz</p>
<p>11N40SISO/HCH</p>	 <p>Keysight Spectrum Analyzer - Channel Power</p> <p>Center Freq 2.452000000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Channel Power: 14.96 dBm / 40 MHz</p> <p>Power Spectral Density: -61.06 dBm / Hz</p>

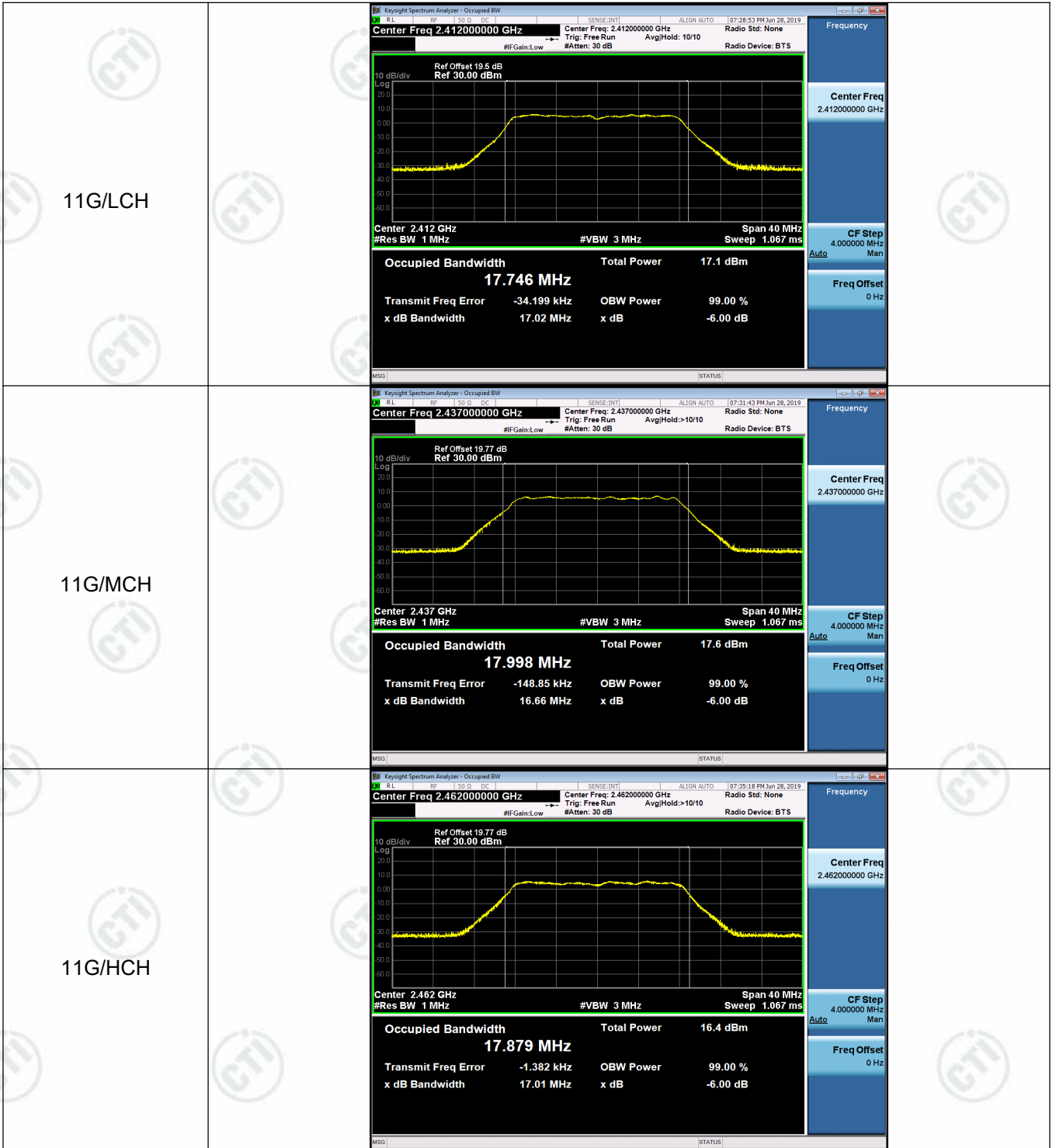
Appendix B): 6dB Occupied Bandwidth

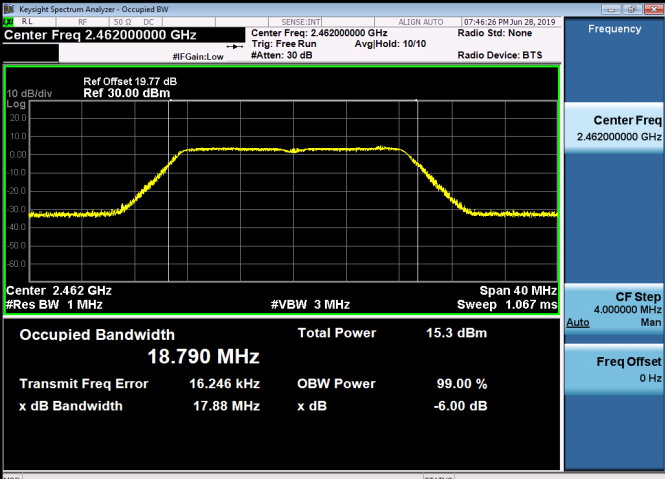
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	9.002	13.705	PASS
11B	MCH	8.873	13.622	PASS
11B	HCH	8.982	13.736	PASS
11G	LCH	17.02	17.746	PASS
11G	MCH	16.66	17.998	PASS
11G	HCH	17.01	17.879	PASS
11N20SISO	LCH	18.21	18.984	PASS
11N20SISO	MCH	18.15	18.711	PASS
11N20SISO	HCH	17.88	18.790	PASS
11N40SISO	LCH	36.63	36.714	PASS
11N40SISO	MCH	36.48	36.721	PASS
11N40SISO	HCH	36.24	36.802	PASS

Test Graph





<p>11N20SISO/LCH</p>	 <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.41200000 GHz</p> <p>Ref Offset 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1.067 ms</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> </tr> </thead> <tbody> <tr> <td>18.984 MHz</td> <td>16.3 dBm</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Transmit Freq Error</th> <th>OBW Power</th> </tr> </thead> <tbody> <tr> <td>-26.035 kHz</td> <td>99.00 %</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>x dB Bandwidth</th> <th>x dB</th> </tr> </thead> <tbody> <tr> <td>18.21 MHz</td> <td>-6.00 dB</td> </tr> </tbody> </table>	Occupied Bandwidth	Total Power	18.984 MHz	16.3 dBm	Transmit Freq Error	OBW Power	-26.035 kHz	99.00 %	x dB Bandwidth	x dB	18.21 MHz	-6.00 dB
Occupied Bandwidth	Total Power												
18.984 MHz	16.3 dBm												
Transmit Freq Error	OBW Power												
-26.035 kHz	99.00 %												
x dB Bandwidth	x dB												
18.21 MHz	-6.00 dB												
<p>11N20SISO/MCH</p>	 <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1.067 ms</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> </tr> </thead> <tbody> <tr> <td>18.711 MHz</td> <td>16.0 dBm</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Transmit Freq Error</th> <th>OBW Power</th> </tr> </thead> <tbody> <tr> <td>-35.151 kHz</td> <td>99.00 %</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>x dB Bandwidth</th> <th>x dB</th> </tr> </thead> <tbody> <tr> <td>18.15 MHz</td> <td>-6.00 dB</td> </tr> </tbody> </table>	Occupied Bandwidth	Total Power	18.711 MHz	16.0 dBm	Transmit Freq Error	OBW Power	-35.151 kHz	99.00 %	x dB Bandwidth	x dB	18.15 MHz	-6.00 dB
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Transmit Freq Error	OBW Power												
-35.151 kHz	99.00 %												
x dB Bandwidth	x dB												
18.15 MHz	-6.00 dB												
<p>11N20SISO/HCH</p>	 <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.46200000 GHz</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 40 MHz Sweep 1.067 ms</p> <table border="1"> <thead> <tr> <th>Occupied Bandwidth</th> <th>Total Power</th> </tr> </thead> <tbody> <tr> <td>18.790 MHz</td> <td>15.3 dBm</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Transmit Freq Error</th> <th>OBW Power</th> </tr> </thead> <tbody> <tr> <td>16.246 kHz</td> <td>99.00 %</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>x dB Bandwidth</th> <th>x dB</th> </tr> </thead> <tbody> <tr> <td>17.88 MHz</td> <td>-6.00 dB</td> </tr> </tbody> </table>	Occupied Bandwidth	Total Power	18.790 MHz	15.3 dBm	Transmit Freq Error	OBW Power	16.246 kHz	99.00 %	x dB Bandwidth	x dB	17.88 MHz	-6.00 dB
Occupied Bandwidth	Total Power												
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Transmit Freq Error	OBW Power												
16.246 kHz	99.00 %												
x dB Bandwidth	x dB												
17.88 MHz	-6.00 dB												

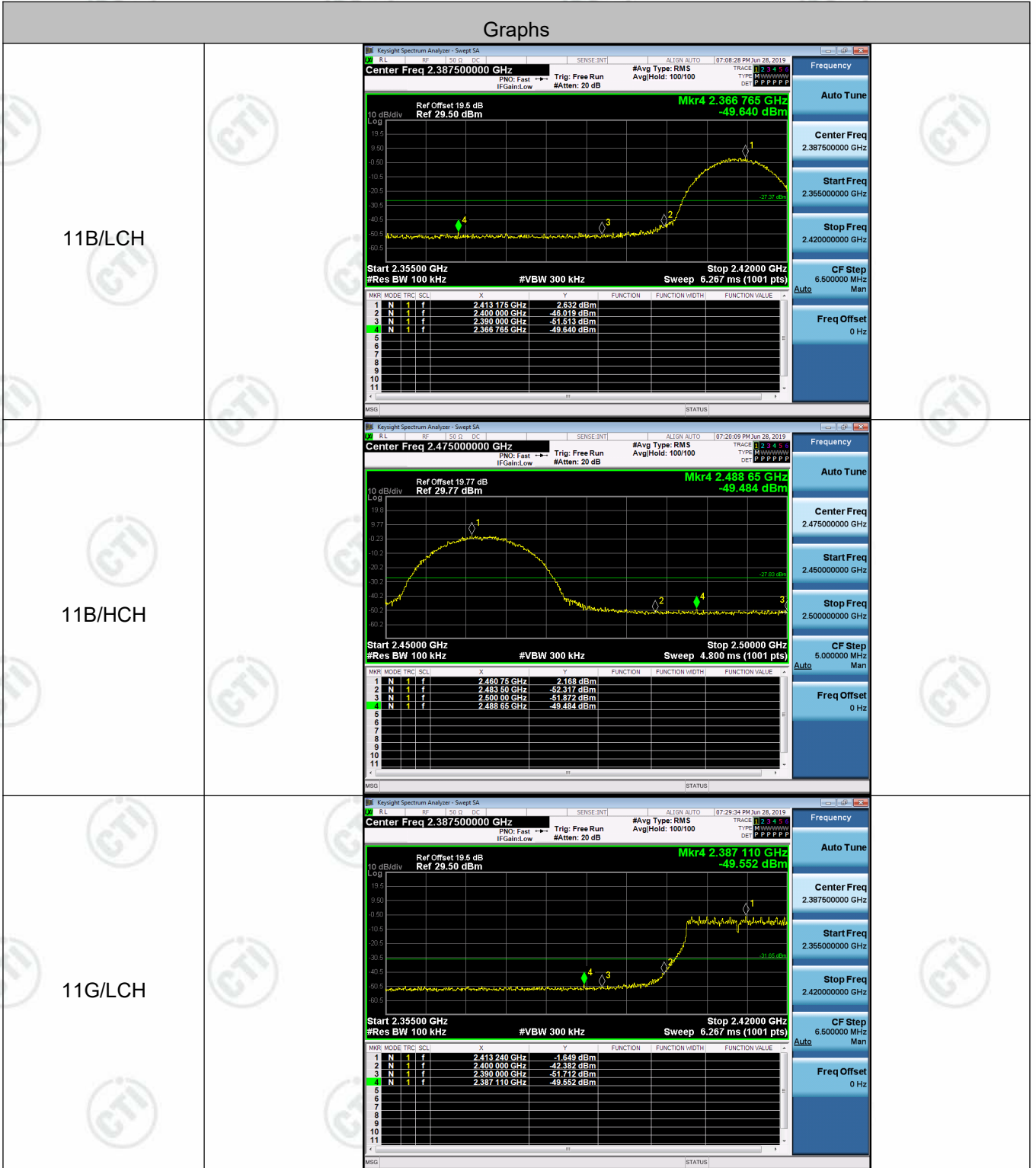
<p>11N40SISO/LCH</p>	<p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.422000000 GHz Center Freq: 2.422000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz Span 80 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 1.067 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>15.0 dBm</td> </tr> <tr> <td>36.714 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-41.667 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>36.63 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	15.0 dBm	36.714 MHz			Transmit Freq Error	OBW Power	99.00 %	-41.667 kHz			x dB Bandwidth	x dB	-6.00 dB	36.63 MHz		
Occupied Bandwidth	Total Power	15.0 dBm																	
36.714 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-41.667 kHz																			
x dB Bandwidth	x dB	-6.00 dB																	
36.63 MHz																			
<p>11N40SISO/MCH</p>	<p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz Center Freq: 2.437000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz Span 80 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 1.067 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>14.7 dBm</td> </tr> <tr> <td>36.721 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-105.85 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>36.48 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	14.7 dBm	36.721 MHz			Transmit Freq Error	OBW Power	99.00 %	-105.85 kHz			x dB Bandwidth	x dB	-6.00 dB	36.48 MHz		
Occupied Bandwidth	Total Power	14.7 dBm																	
36.721 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-105.85 kHz																			
x dB Bandwidth	x dB	-6.00 dB																	
36.48 MHz																			
<p>11N40SISO/HCH</p>	<p>KeySight Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.452000000 GHz Center Freq: 2.452000000 GHz Radio Std: None</p> <p>Ref Offset 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz Span 80 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 1.067 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>14.4 dBm</td> </tr> <tr> <td>36.802 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-49.968 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-6.00 dB</td> </tr> <tr> <td>36.24 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	14.4 dBm	36.802 MHz			Transmit Freq Error	OBW Power	99.00 %	-49.968 kHz			x dB Bandwidth	x dB	-6.00 dB	36.24 MHz		
Occupied Bandwidth	Total Power	14.4 dBm																	
36.802 MHz																			
Transmit Freq Error	OBW Power	99.00 %																	
-49.968 kHz																			
x dB Bandwidth	x dB	-6.00 dB																	
36.24 MHz																			

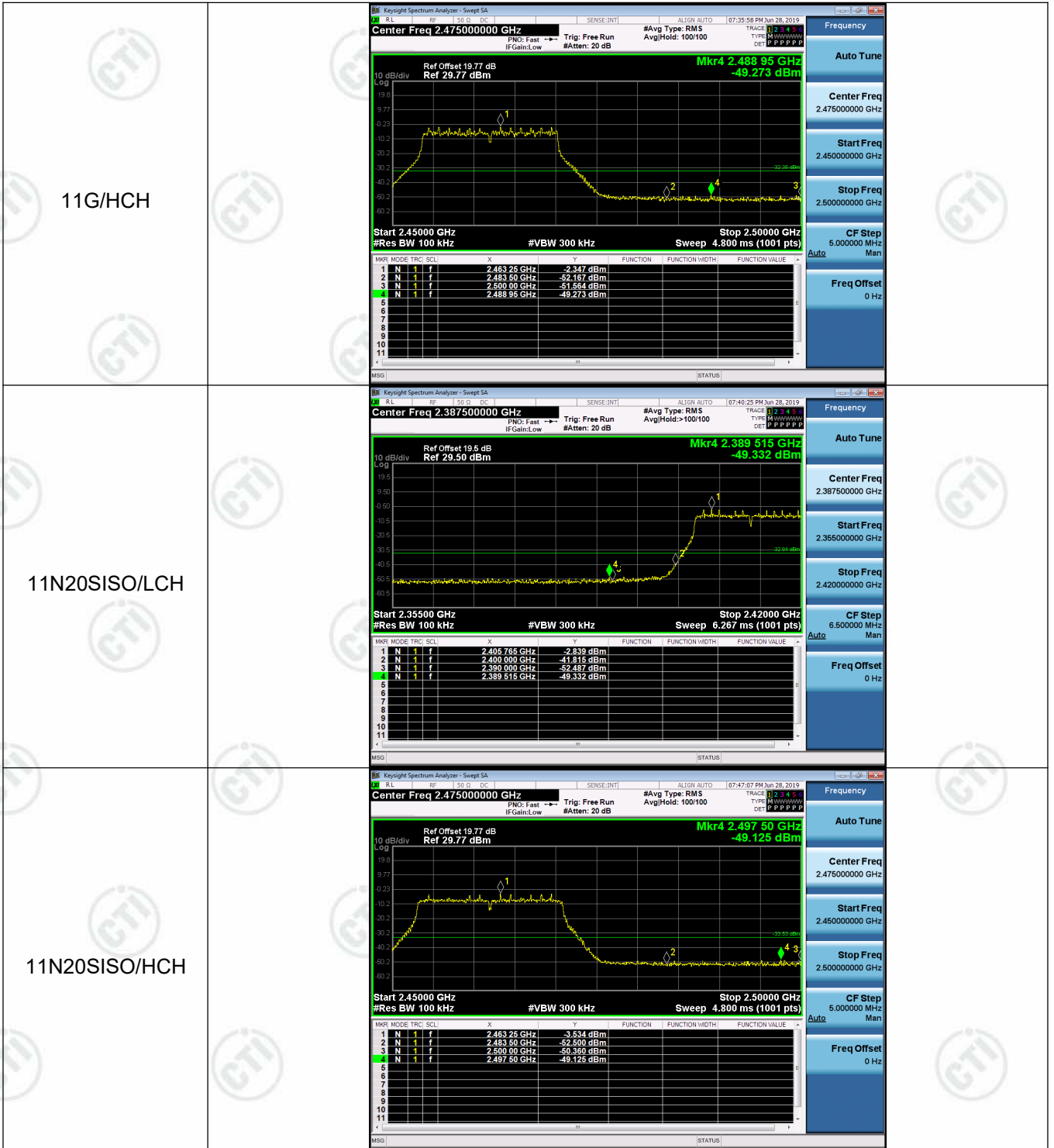
Appendix C): Band-edge for RF Conducted Emissions

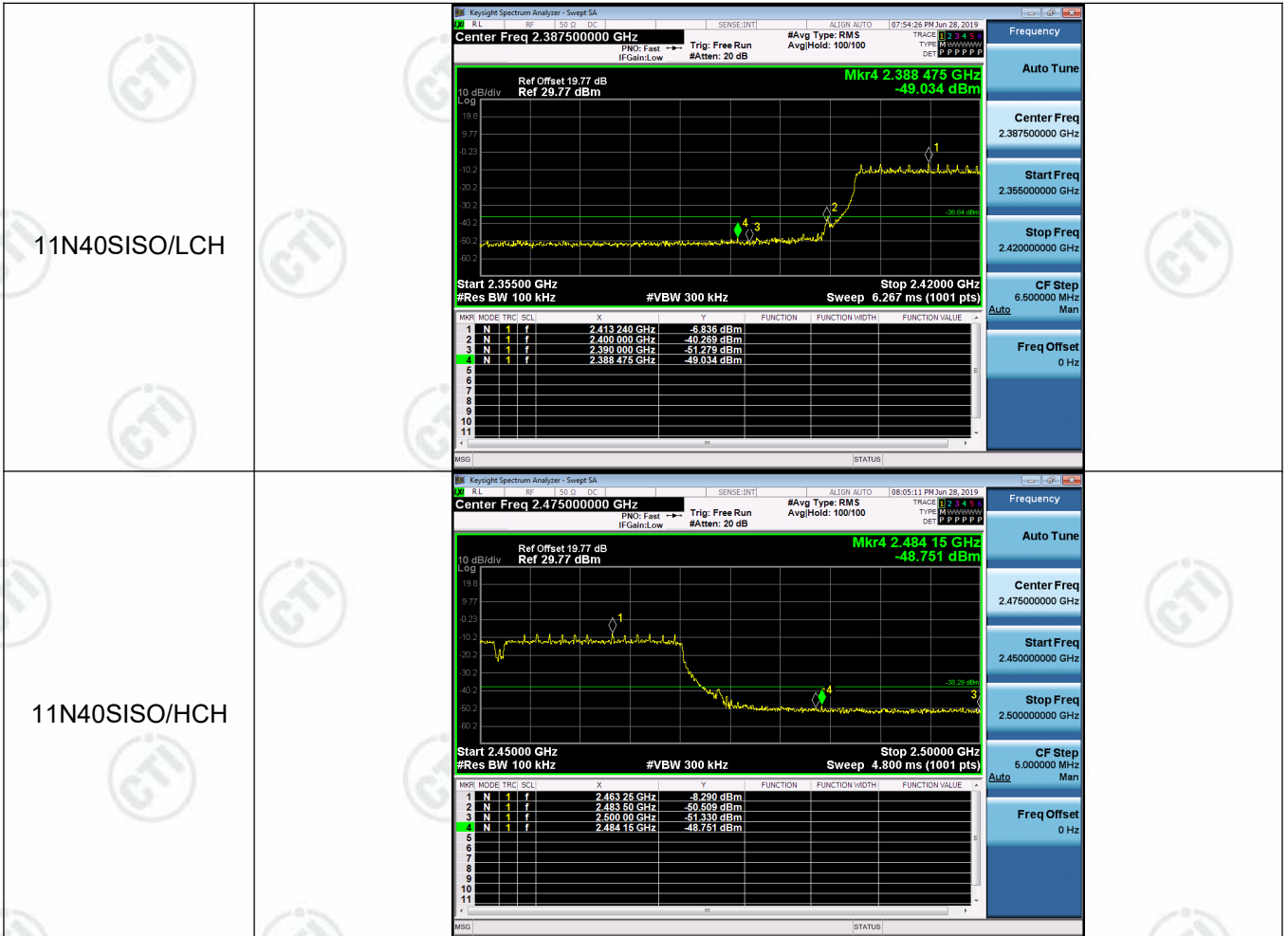
Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.632	-49.640	-27.37	PASS
11B	HCH	2.168	-49.484	-27.83	PASS
11G	LCH	-1.649	-49.552	-31.65	PASS
11G	HCH	-2.347	-49.273	-32.35	PASS
11N20SISO	LCH	-2.839	-49.332	-32.84	PASS
11N20SISO	HCH	-3.534	-49.125	-33.53	PASS
11N40SISO	LCH	-6.836	-49.034	-36.84	PASS
11N40SISO	HCH	-8.290	-48.751	-38.29	PASS

Test Graph





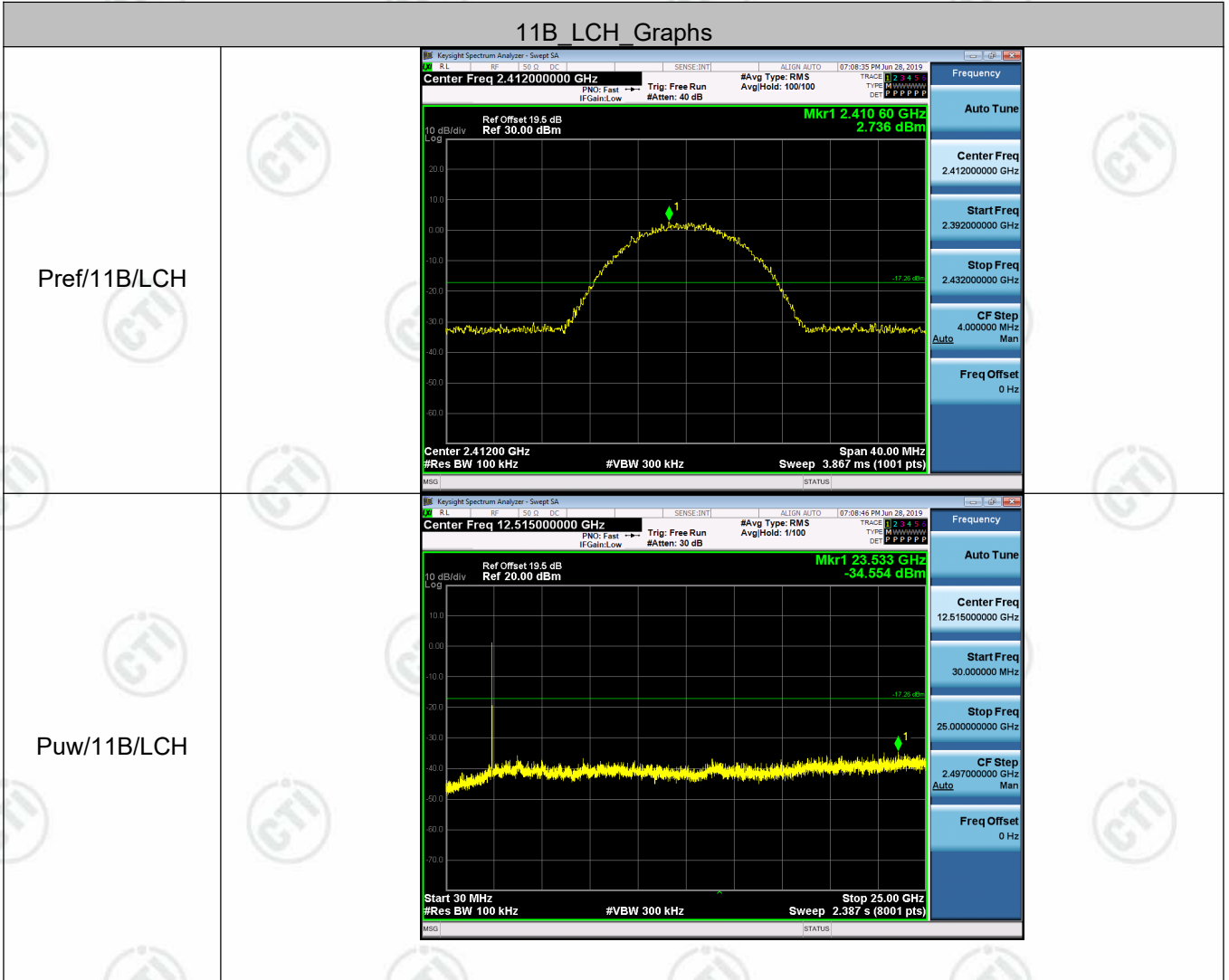


Appendix D): RF Conducted Spurious Emissions

Result Table

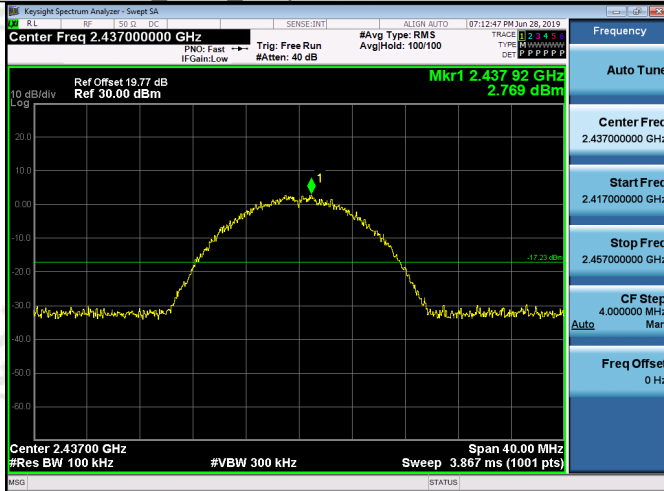
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	2.736	<Limit	PASS
11B	MCH	2.769	<Limit	PASS
11B	HCH	2.776	<Limit	PASS
11G	LCH	-1.6	<Limit	PASS
11G	MCH	-1.407	<Limit	PASS
11G	HCH	-2.337	<Limit	PASS
11N20SISO	LCH	-2.721	<Limit	PASS
11N20SISO	MCH	-2.609	<Limit	PASS
11N20SISO	HCH	-3.491	<Limit	PASS
11N40SISO	LCH	-6.782	<Limit	PASS
11N40SISO	MCH	-6.91	<Limit	PASS
11N40SISO	HCH	-7.191	<Limit	PASS

Test Graph

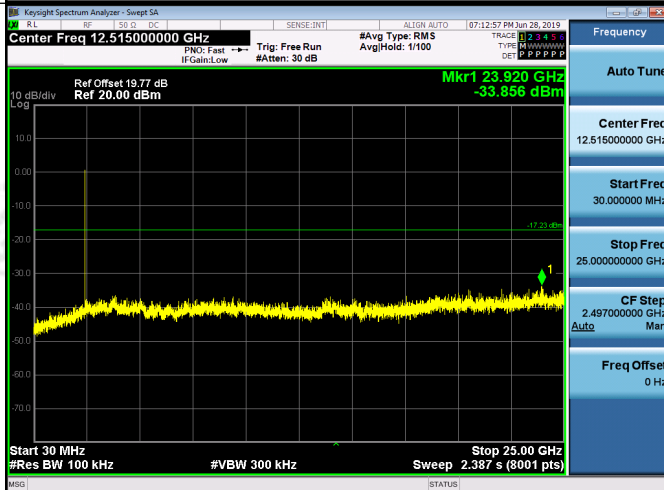


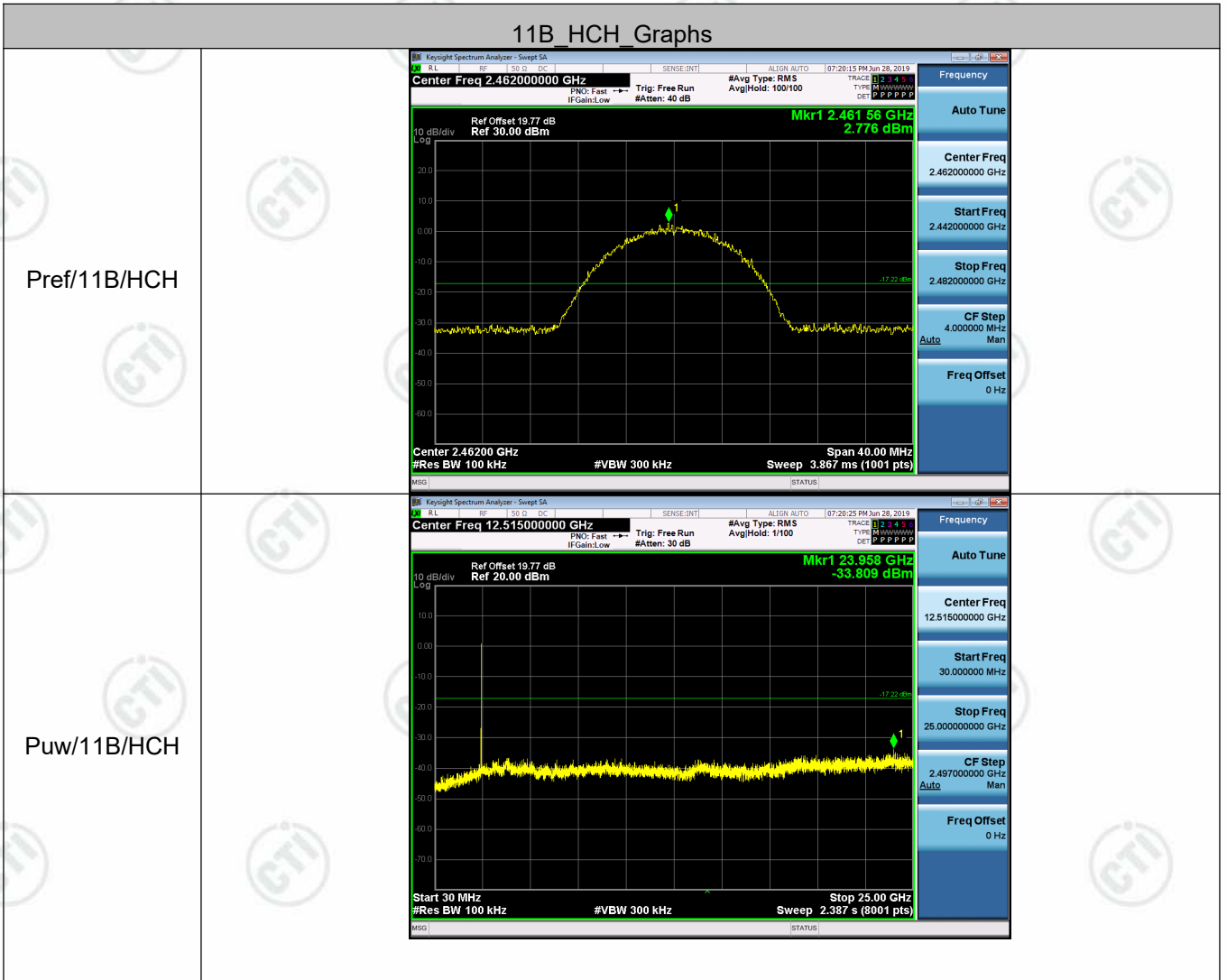
11B MCH Graphs

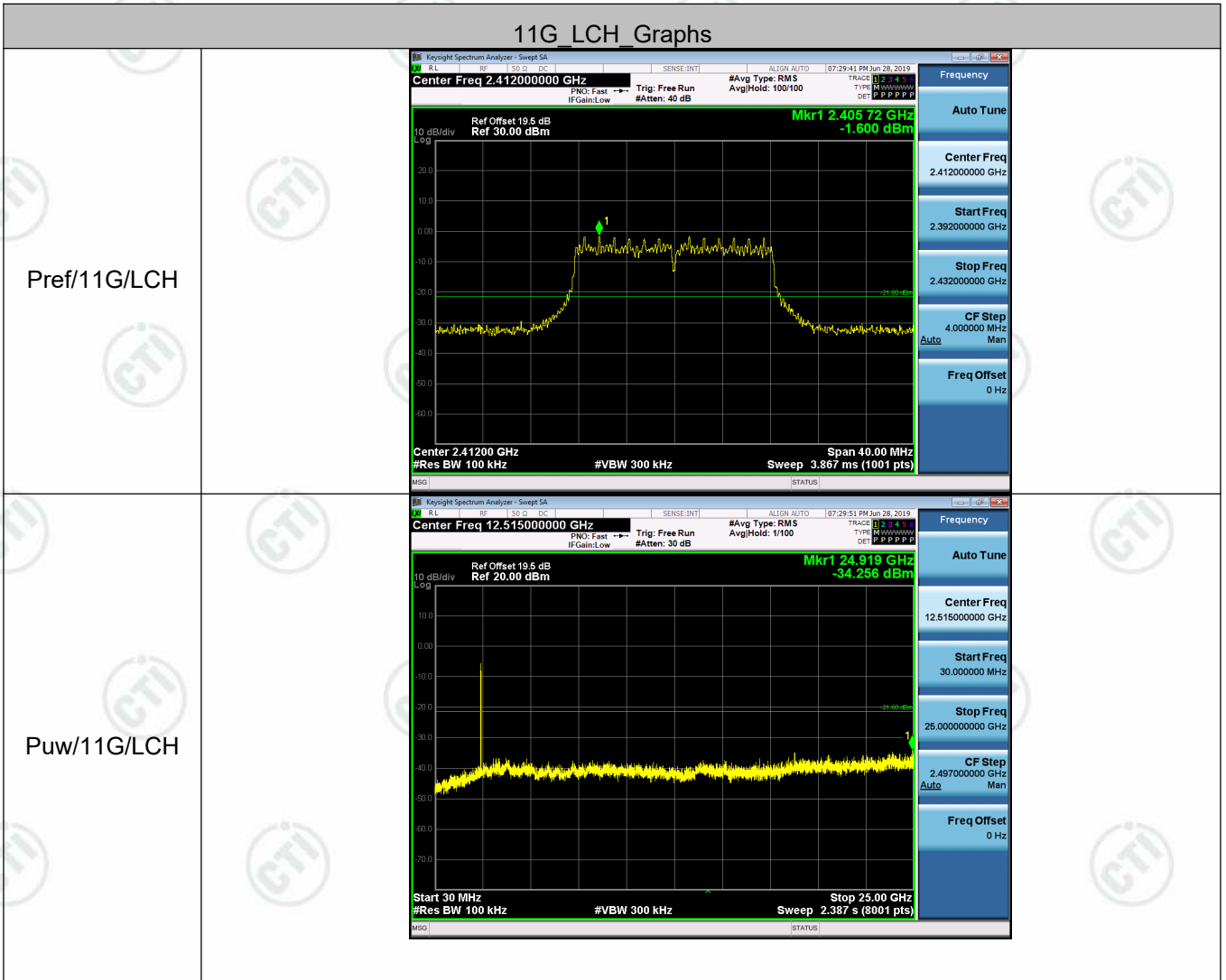
Pref/11B/MCH

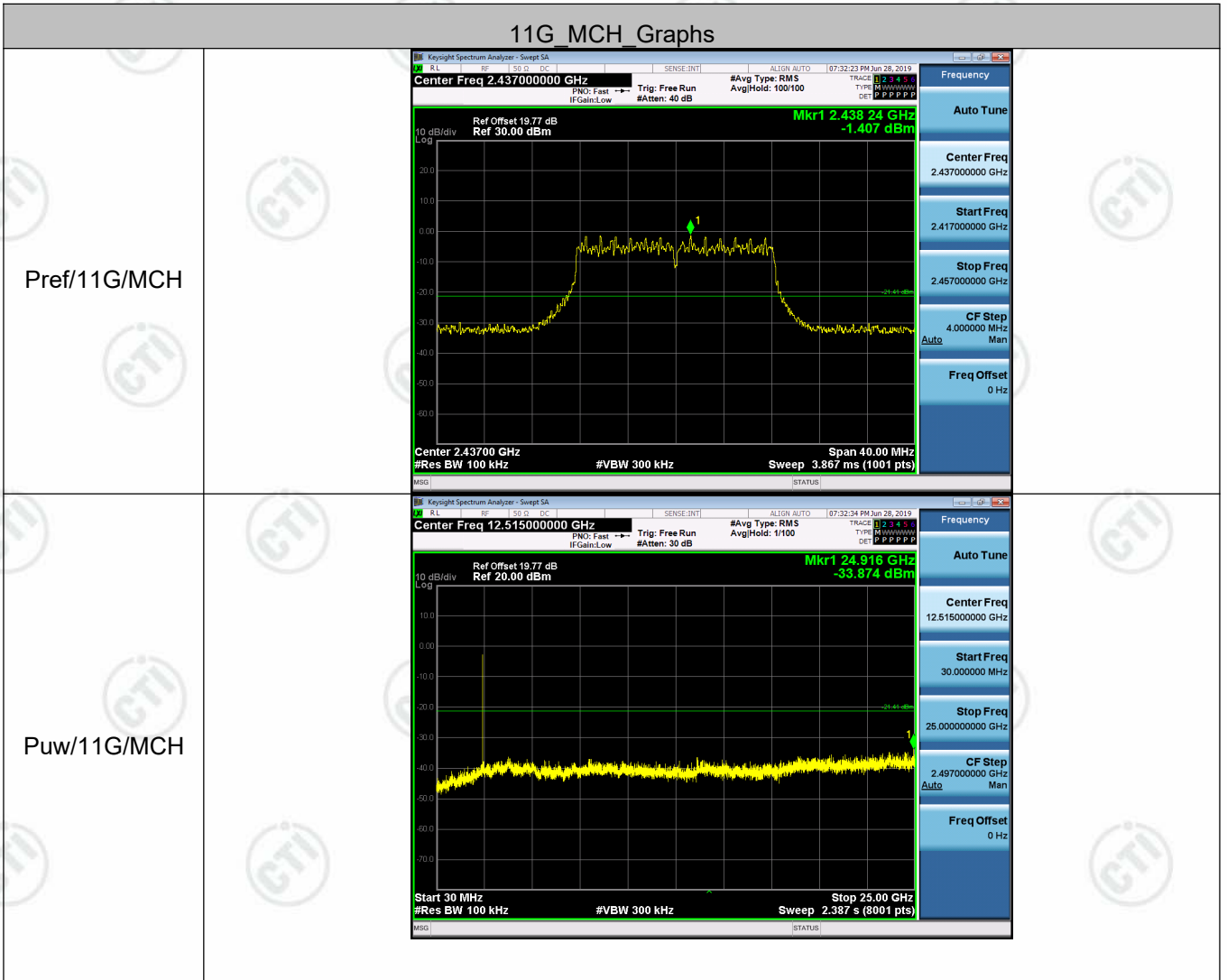


Puw/11B/MCH

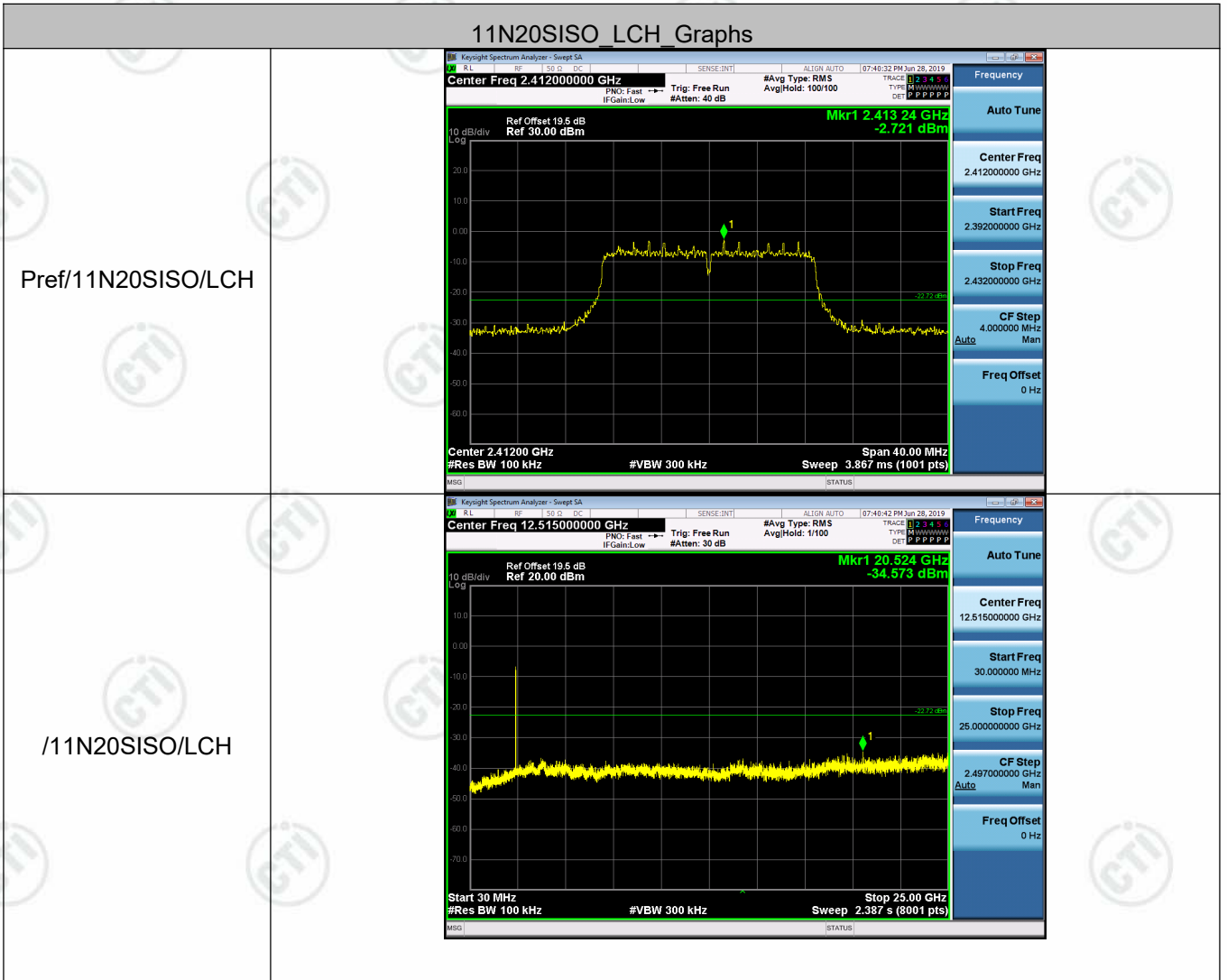


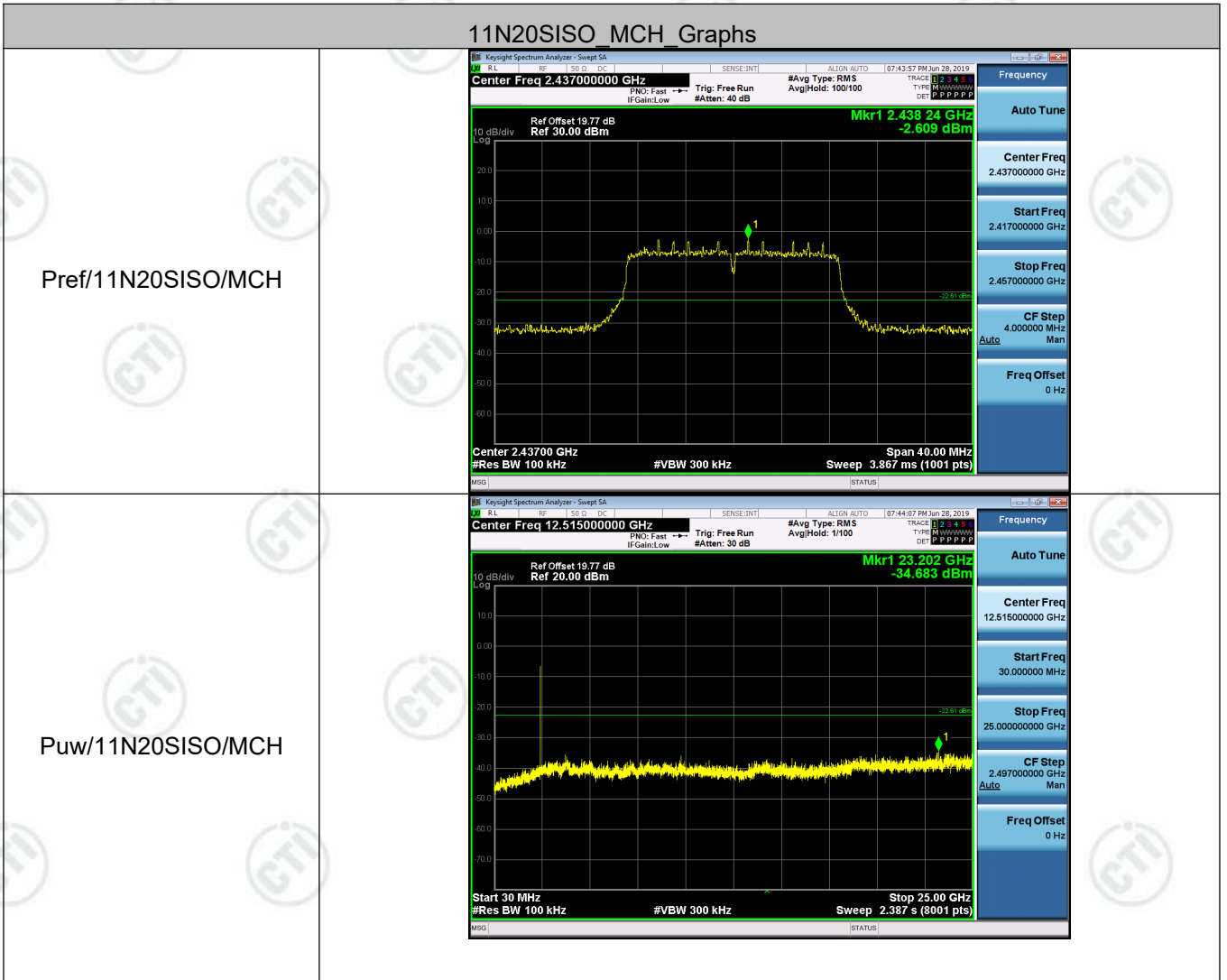


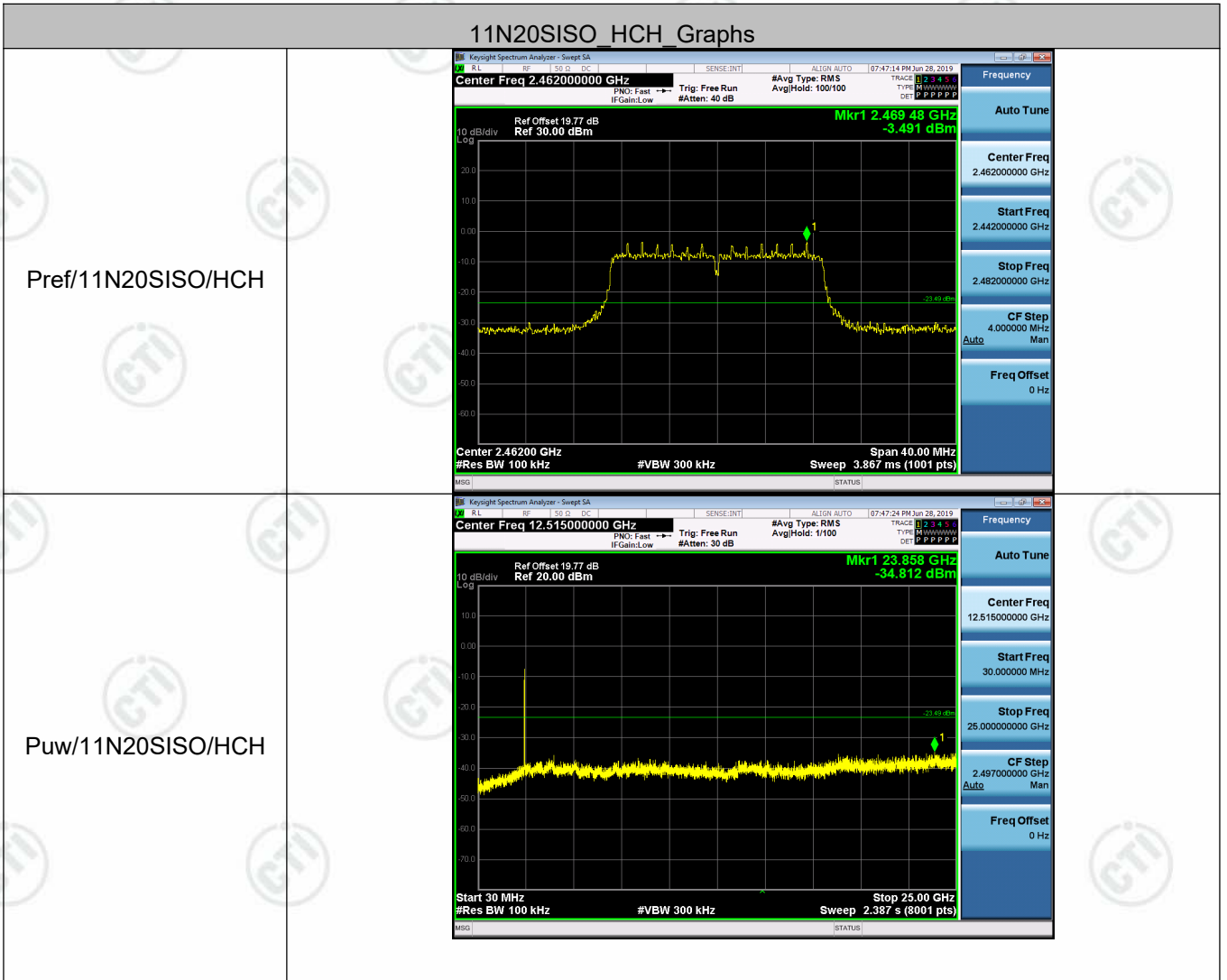


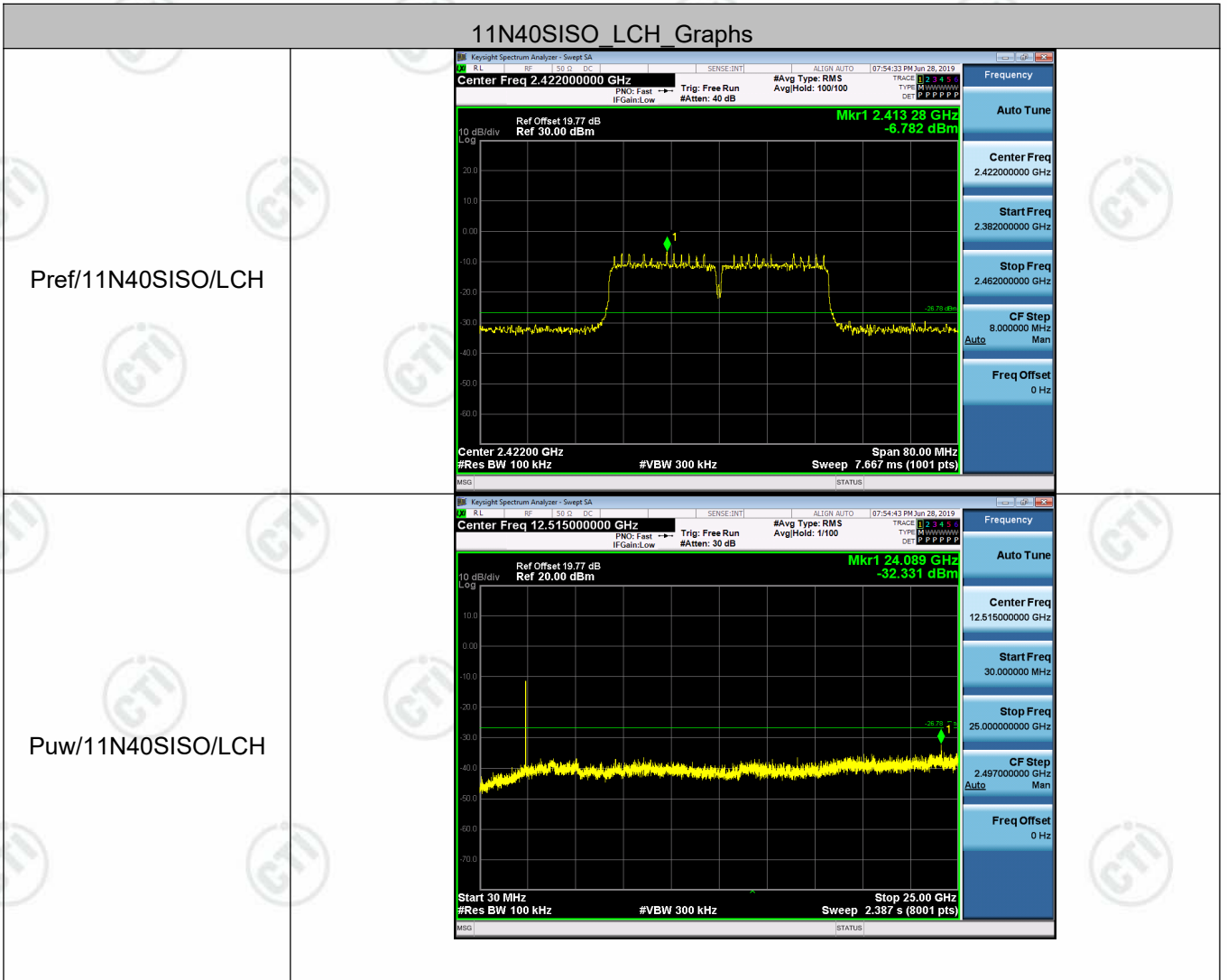


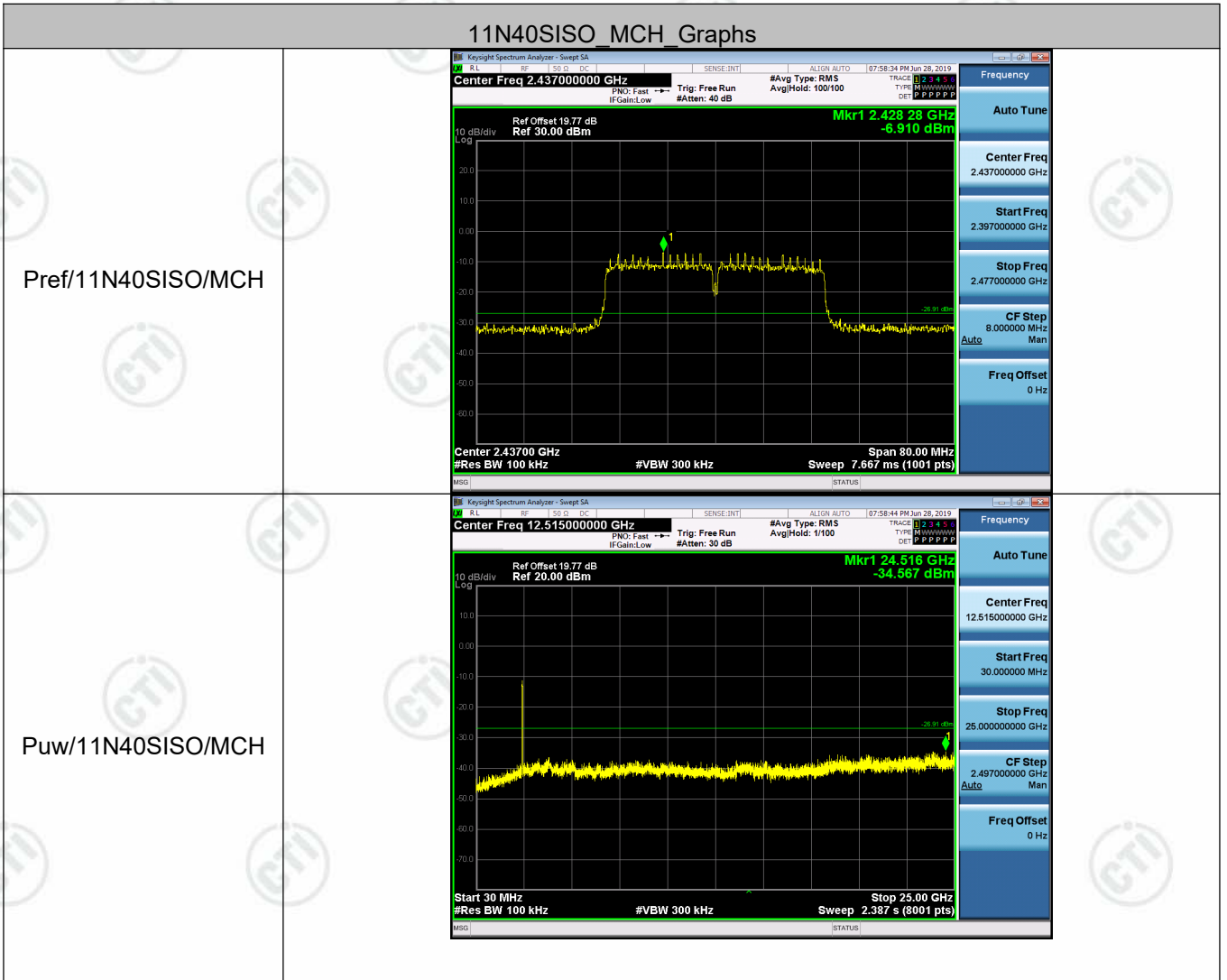


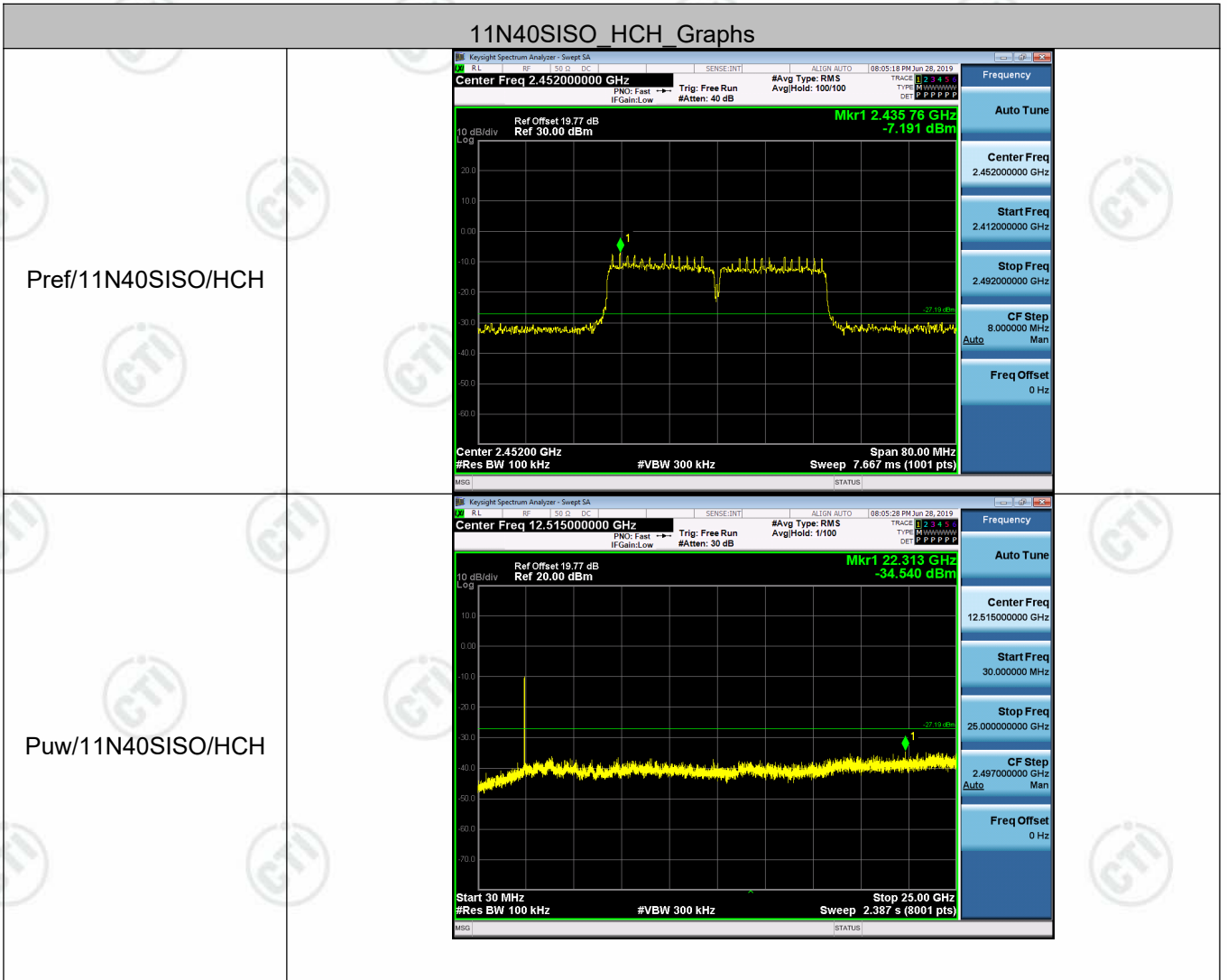










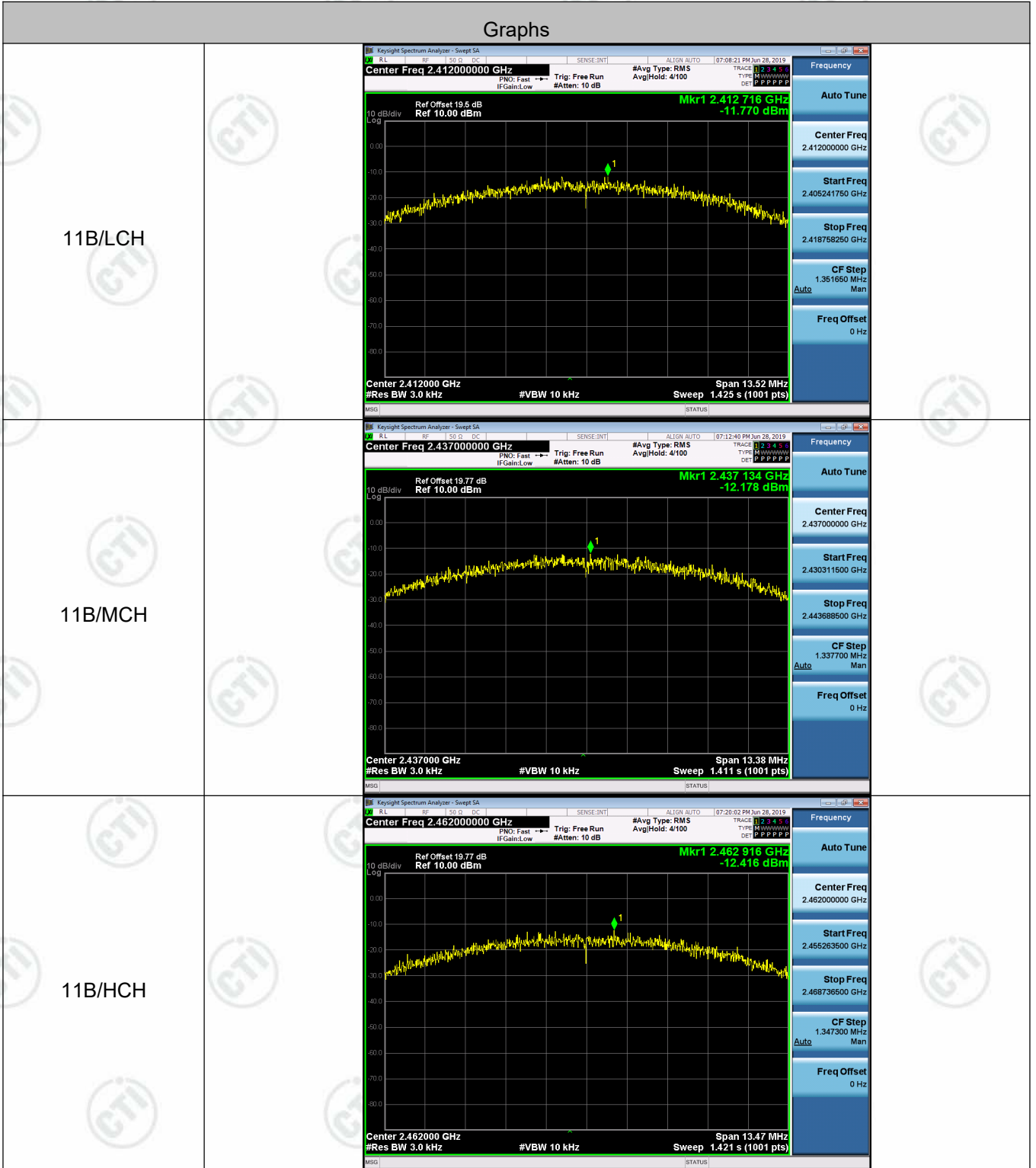


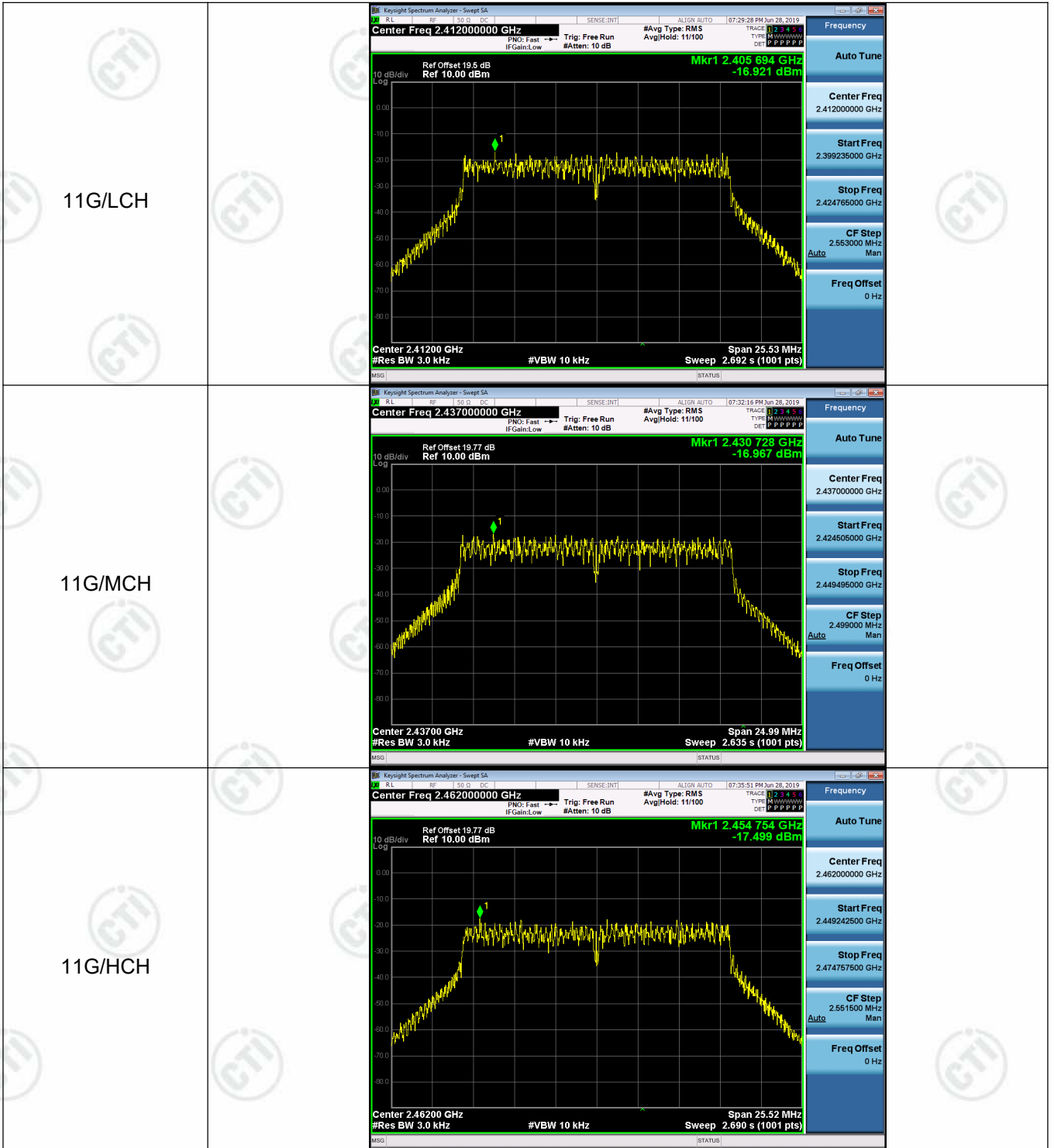
Appendix E): Power Spectral Density

Result Table

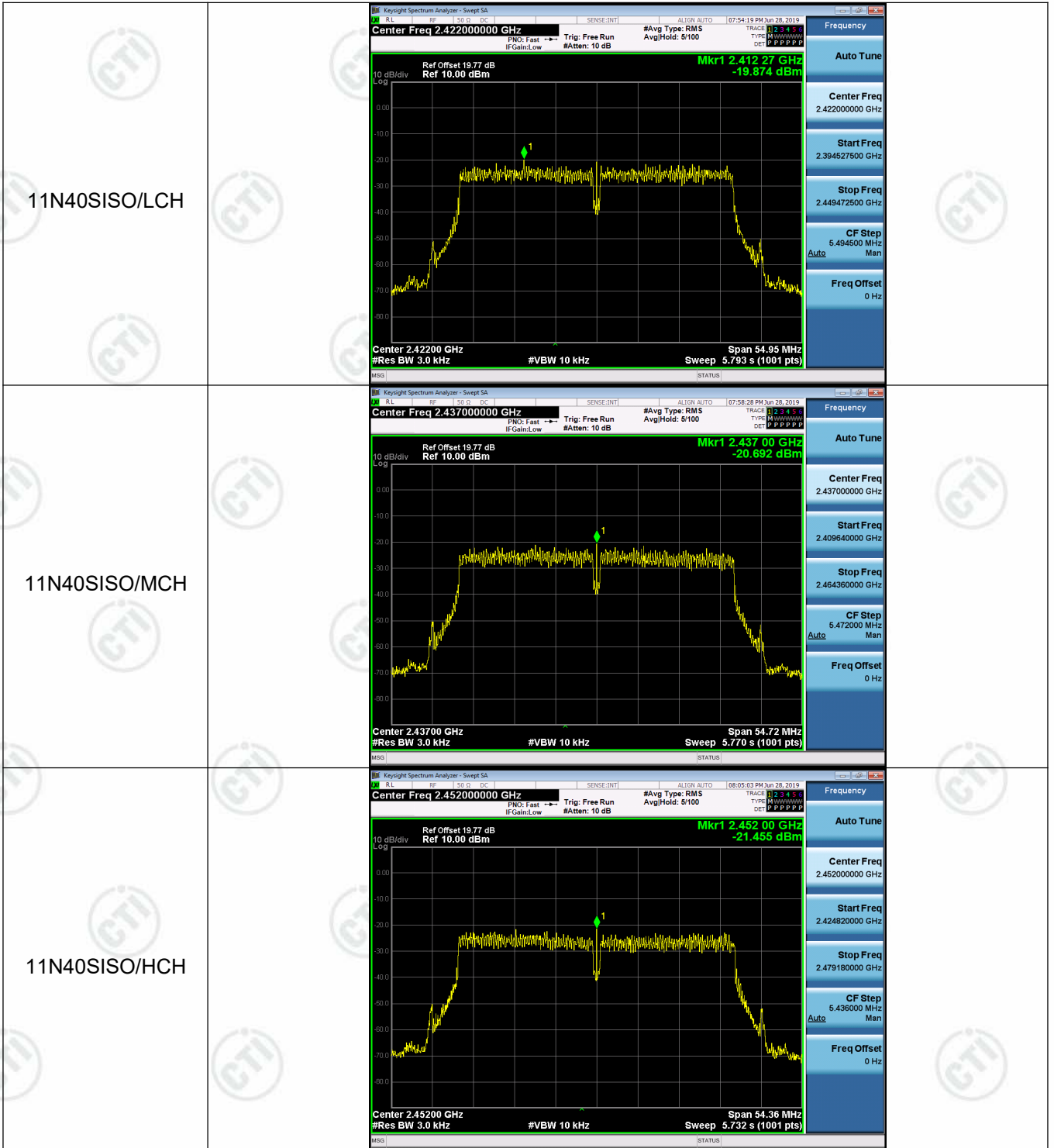
Mode	Channel	Power Spectral Density [dBm]	Verdict
11B	LCH	-11.770	PASS
11B	MCH	-12.178	PASS
11B	HCH	-12.416	PASS
11G	LCH	-16.921	PASS
11G	MCH	-16.967	PASS
11G	HCH	-17.499	PASS
11N20SISO	LCH	-16.762	PASS
11N20SISO	MCH	-16.822	PASS
11N20SISO	HCH	-17.255	PASS
11N40SISO	LCH	-19.874	PASS
11N40SISO	MCH	-20.692	PASS
11N40SISO	HCH	-21.455	PASS

Test Graph





<p>11N20SISO/LCH</p>	
<p>11N20SISO/MCH</p>	
<p>11N20SISO/HCH</p>	



Appendix F): Antenna Requirement

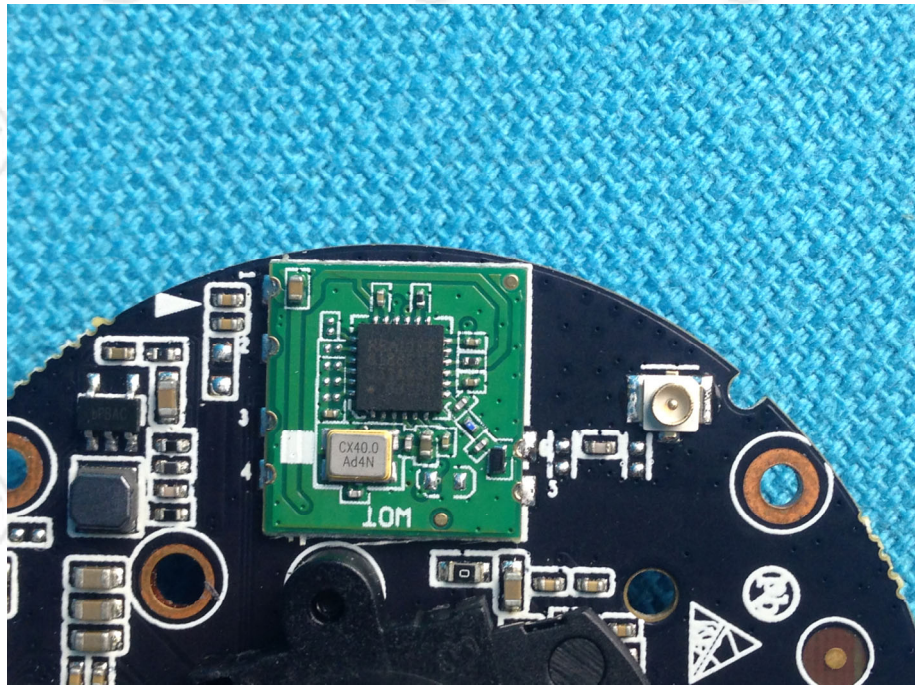
15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.48dBi.

Appendix G): AC Power Line Conducted Emission

<p>Test Procedure:</p>	<p>Test frequency range :150KHz-30MHz</p> <ol style="list-style-type: none"> 1)The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3)The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement. 														
<p>Limit:</p>	<table border="1" data-bbox="464 1155 1331 1375"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> <p>* The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz. NOTE : The lower limit is applicable at the transition frequency</p>	Frequency range (MHz)	Limit (dBμV)		Quasi-peak	Average	0.15-0.5	66 to 56*	56 to 46*	0.5-5	56	46	5-30	60	50
Frequency range (MHz)	Limit (dBμV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													

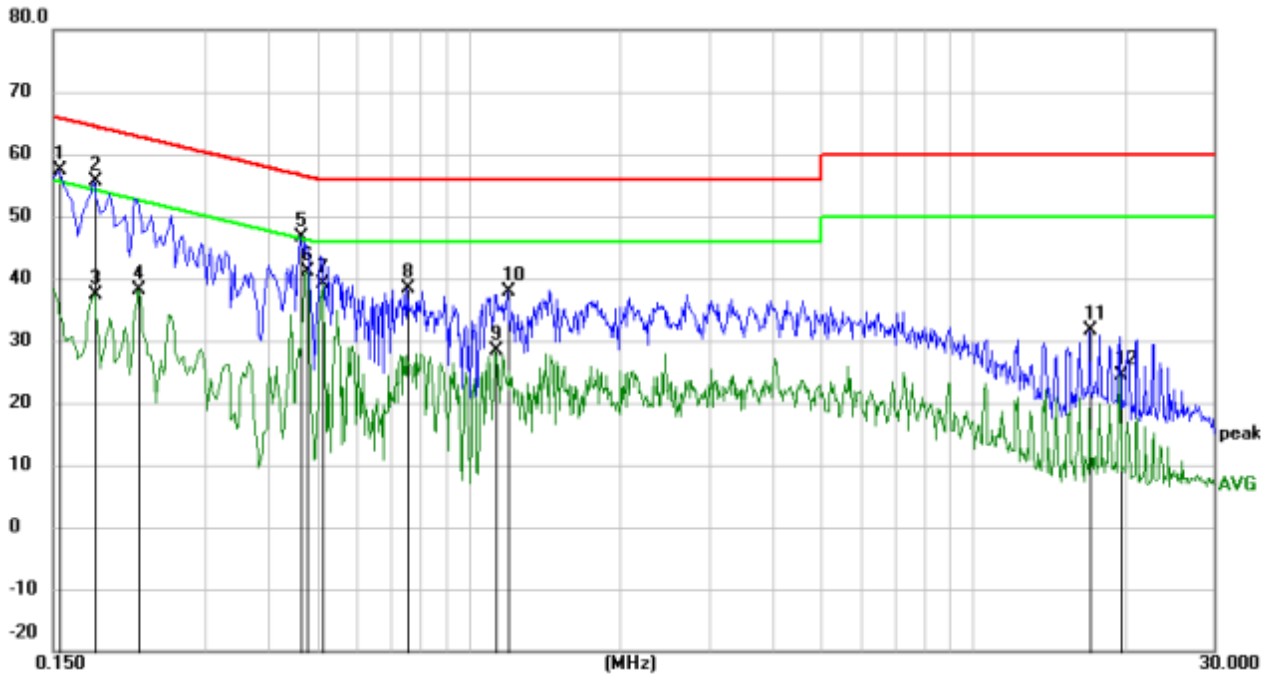
Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

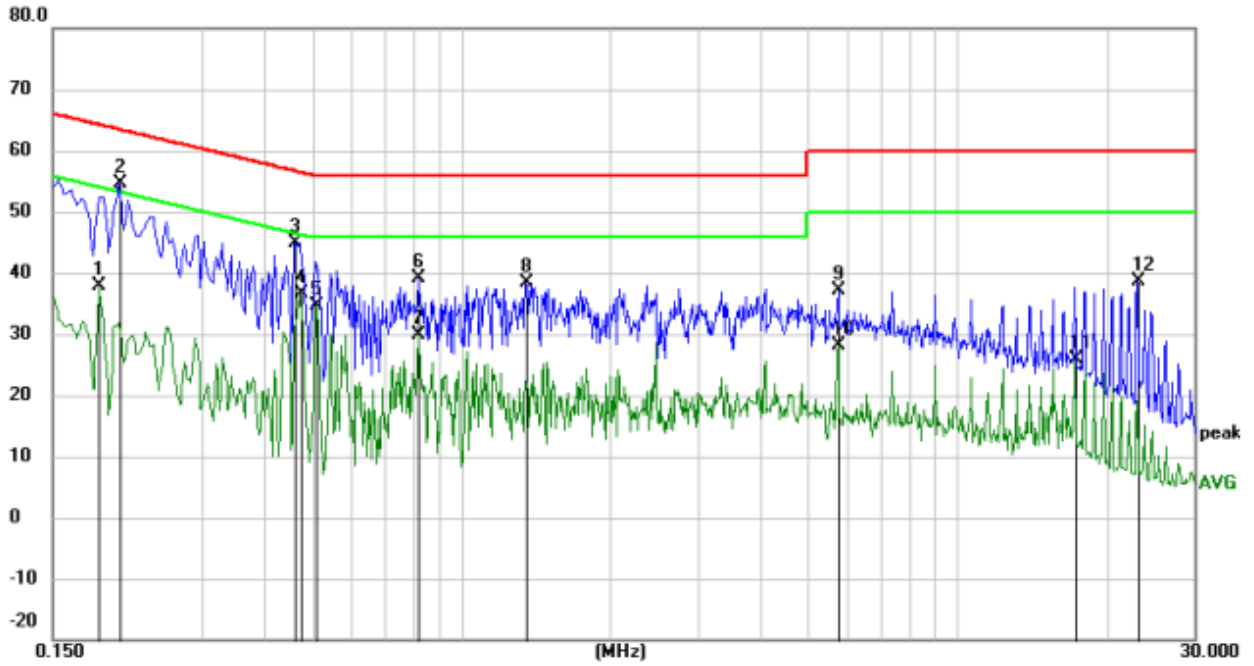
Product : Kami Outdoor Security Camera **Model/Type reference** : YHS.3119
Temperature : 20°C **Humidity** : 50%

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	47.39	9.91	57.30	65.75	-8.45	peak	
2		0.1815	45.67	9.91	55.58	64.42	-8.84	peak	
3		0.1815	27.55	9.91	37.46	54.42	-16.96	AVG	
4		0.2220	28.31	9.93	38.24	52.74	-14.50	AVG	
5		0.4650	36.70	9.89	46.59	56.60	-10.01	peak	
6	*	0.4785	31.26	9.89	41.15	46.37	-5.22	AVG	
7		0.5144	29.10	9.91	39.01	46.00	-6.99	AVG	
8		0.7575	28.51	9.81	38.32	56.00	-17.68	peak	
9		1.1310	18.54	9.80	28.34	46.00	-17.66	AVG	
10		1.1940	28.07	9.79	37.86	56.00	-18.14	peak	
11		17.0745	21.64	9.95	31.59	60.00	-28.41	peak	
12		19.5540	14.43	9.92	24.35	50.00	-25.65	AVG	

Neutral line:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1860	27.88	9.91	37.79	54.21	-16.42	AVG	
2	*	0.2040	44.64	9.91	54.55	63.45	-8.90	peak	
3		0.4605	35.10	9.89	44.99	56.68	-11.69	peak	
4		0.4740	26.81	9.89	36.70	46.44	-9.74	AVG	
5		0.5100	24.64	9.91	34.55	46.00	-11.45	AVG	
6		0.8205	29.37	9.80	39.17	56.00	-16.83	peak	
7		0.8205	20.00	9.80	29.80	46.00	-16.20	AVG	
8		1.3470	28.69	9.78	38.47	56.00	-17.53	peak	
9		5.7525	27.44	9.73	37.17	60.00	-22.83	peak	
10		5.7525	18.37	9.73	28.10	50.00	-21.90	AVG	
11		17.2905	15.89	9.95	25.84	50.00	-24.16	AVG	
12		23.0640	28.62	9.93	38.55	60.00	-21.45	peak	

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

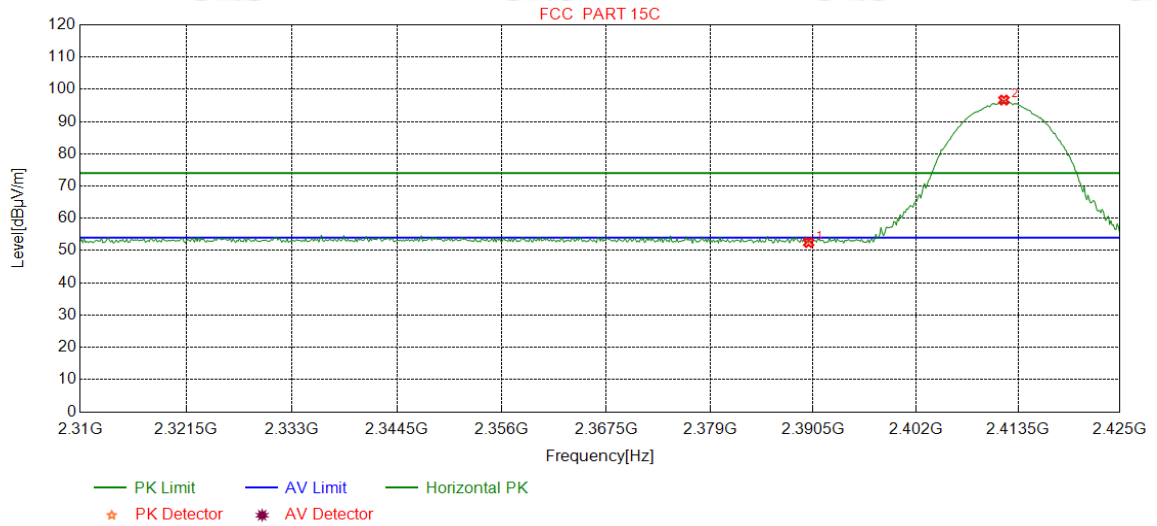
Appendix H): Restricted bands around fundamental frequency (Radiated)

Receiver Setup:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Detector</th> <th>RBW</th> <th>VBW</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-1GHz</td> <td>Quasi-peak</td> <td>120kHz</td> <td>300kHz</td> <td>Quasi-peak</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>Peak</td> <td>1MHz</td> <td>3MHz</td> <td>Peak</td> </tr> <tr> <td>Peak</td> <td>1MHz</td> <td>10Hz</td> <td>Average</td> </tr> </tbody> </table>	Frequency	Detector	RBW	VBW	Remark	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak	Above 1GHz	Peak	1MHz	3MHz	Peak	Peak	1MHz	10Hz	Average	
Frequency	Detector	RBW	VBW	Remark																	
30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak																	
Above 1GHz	Peak	1MHz	3MHz	Peak																	
	Peak	1MHz	10Hz	Average																	
Test Procedure:	<p>Below 1GHz test procedure as below:</p> <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel <p>Above 1GHz test procedure as below:</p> <ol style="list-style-type: none"> Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter). Test the EUT in the lowest channel , the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete. 																				
Limit:	<table border="1"> <thead> <tr> <th>Frequency</th> <th>Limit (dBμV/m @3m)</th> <th>Remark</th> </tr> </thead> <tbody> <tr> <td>30MHz-88MHz</td> <td>40.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>88MHz-216MHz</td> <td>43.5</td> <td>Quasi-peak Value</td> </tr> <tr> <td>216MHz-960MHz</td> <td>46.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td>960MHz-1GHz</td> <td>54.0</td> <td>Quasi-peak Value</td> </tr> <tr> <td rowspan="2">Above 1GHz</td> <td>54.0</td> <td>Average Value</td> </tr> <tr> <td>74.0</td> <td>Peak Value</td> </tr> </tbody> </table>	Frequency	Limit (dB μ V/m @3m)	Remark	30MHz-88MHz	40.0	Quasi-peak Value	88MHz-216MHz	43.5	Quasi-peak Value	216MHz-960MHz	46.0	Quasi-peak Value	960MHz-1GHz	54.0	Quasi-peak Value	Above 1GHz	54.0	Average Value	74.0	Peak Value
Frequency	Limit (dB μ V/m @3m)	Remark																			
30MHz-88MHz	40.0	Quasi-peak Value																			
88MHz-216MHz	43.5	Quasi-peak Value																			
216MHz-960MHz	46.0	Quasi-peak Value																			
960MHz-1GHz	54.0	Quasi-peak Value																			
Above 1GHz	54.0	Average Value																			
	74.0	Peak Value																			

Test plot as follows:

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2412
Remark:	PK		

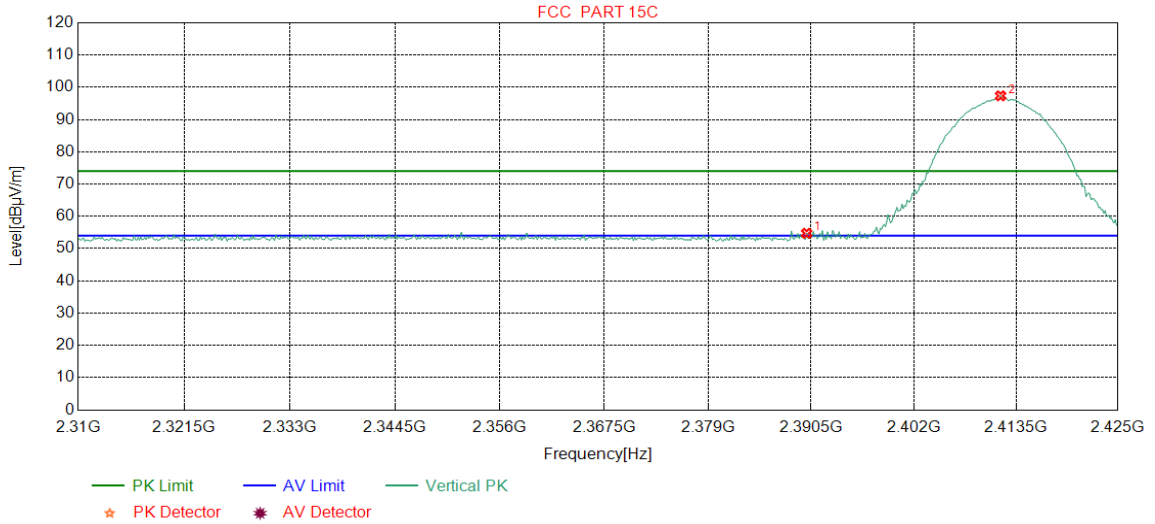
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.31	52.49	74.00	21.51	Pass	Horizontal
2	2411.9024	32.28	13.35	-42.43	93.46	96.66	74.00	-22.66	Pass	Horizontal

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2412
Remark:	PK		

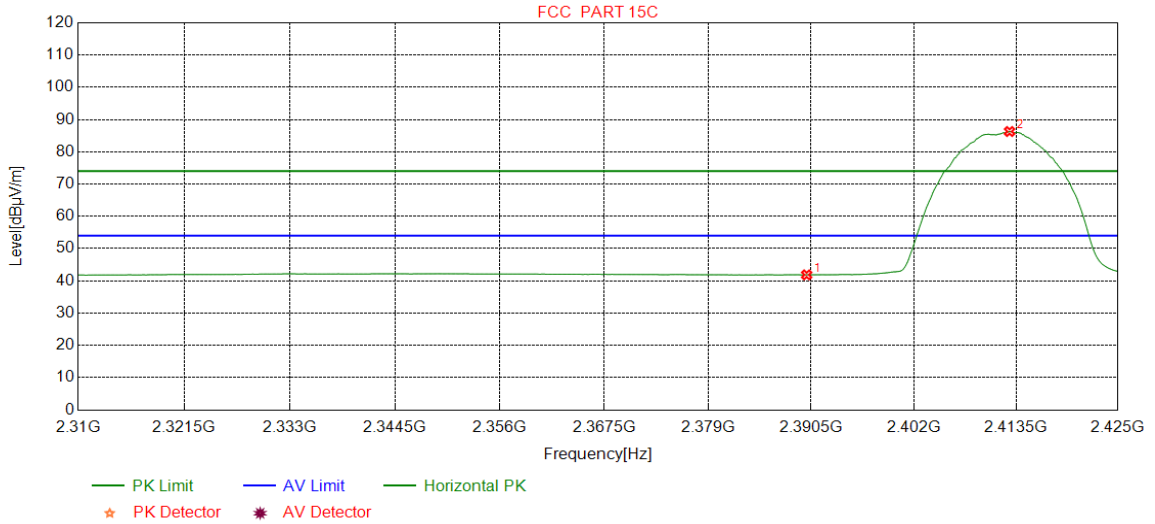
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	51.56	54.74	74.00	19.26	Pass	Vertical
2	2411.7584	32.28	13.35	-42.43	94.16	97.36	74.00	-23.36	Pass	Vertical

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2412
Remark:	AV		

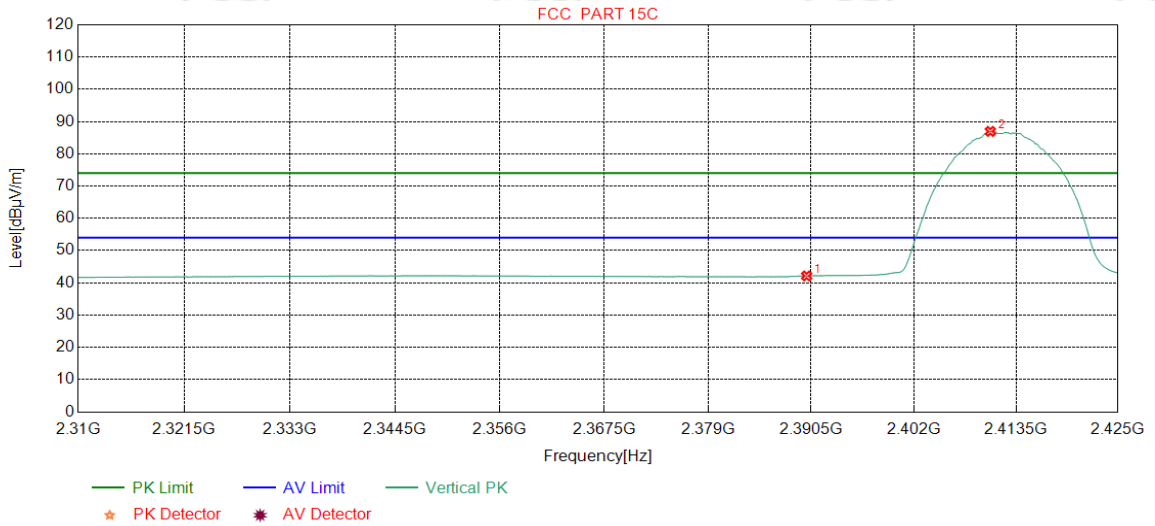
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.68	41.86	54.00	12.14	Pass	Horizontal
2	2412.7660	32.28	13.36	-42.43	83.09	86.30	54.00	-32.30	Pass	Horizontal

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2412
Remark:	AV		

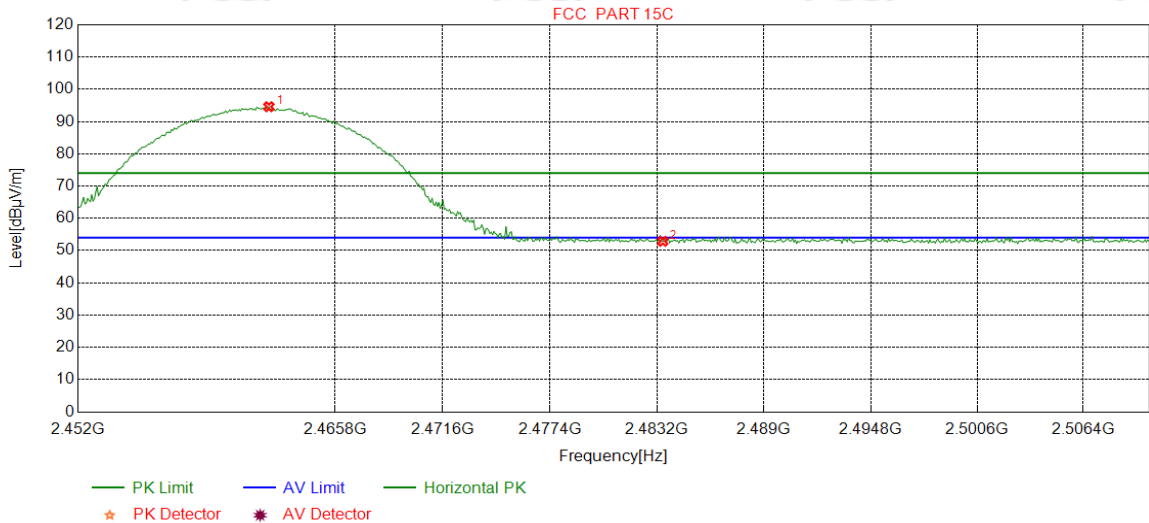
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.96	42.14	54.00	11.86	Pass	Vertical
2	2410.6070	32.27	13.35	-42.43	83.76	86.95	54.00	-32.95	Pass	Vertical

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2462
Remark:	PK		

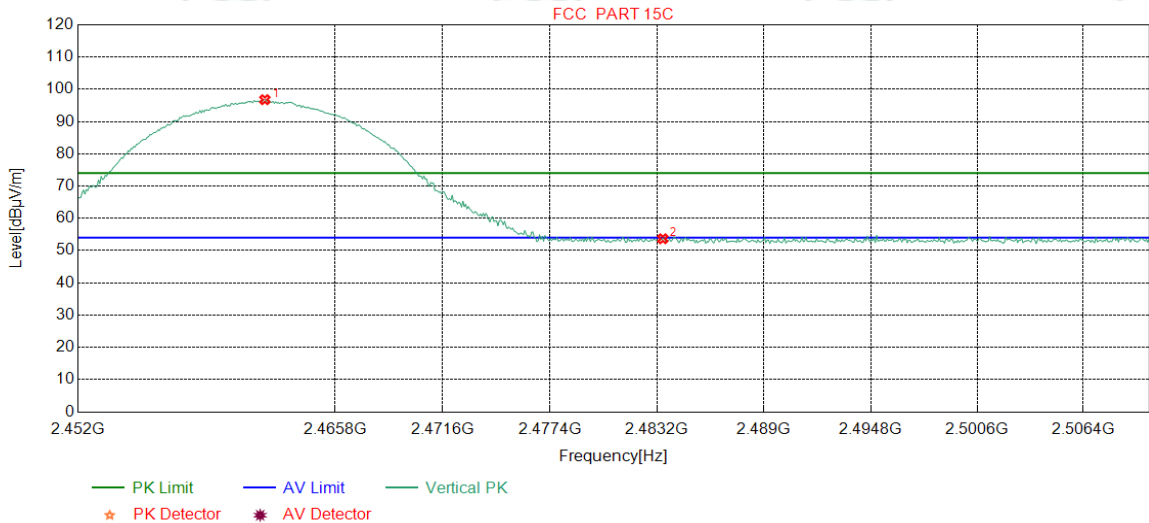
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2462.2353	32.35	13.47	-42.41	91.19	94.60	74.00	-20.60	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	49.51	52.87	74.00	21.13	Pass	Horizontal

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2462
Remark:	PK		

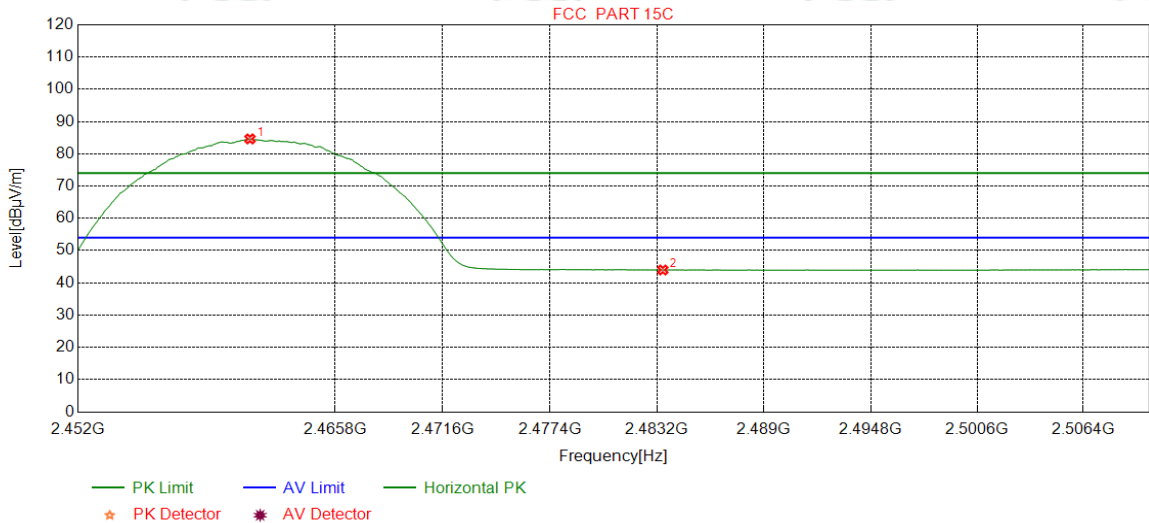
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2462.0175	32.35	13.47	-42.41	93.38	96.79	74.00	-22.79	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	50.30	53.66	74.00	20.34	Pass	Vertical

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2462
Remark:	AV		

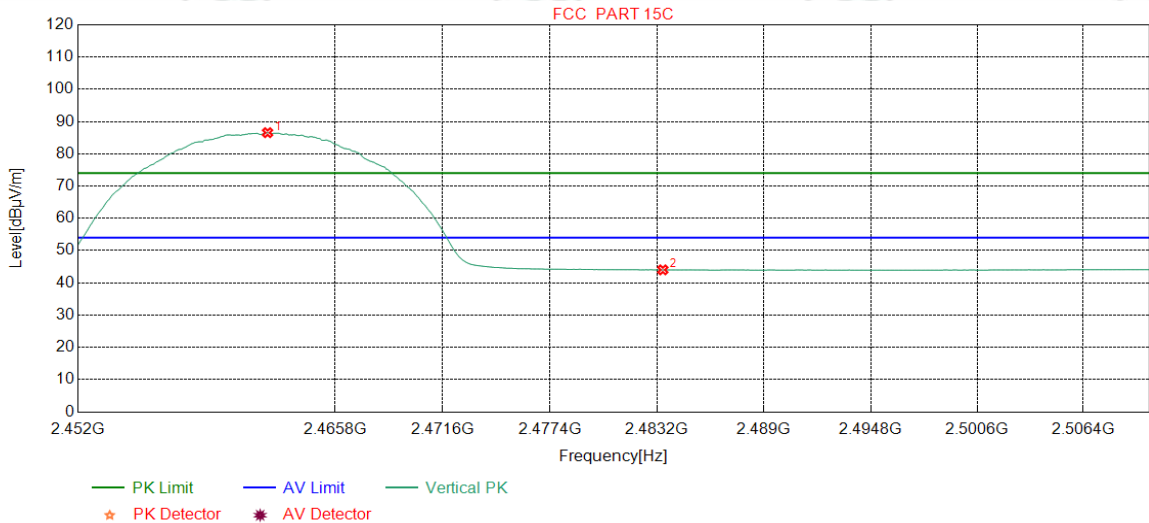
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2461.2190	32.35	13.48	-42.41	81.20	84.62	54.00	-30.62	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	40.63	43.99	54.00	10.01	Pass	Horizontal

Mode:	802.11 b(11Mbps) Transmitting	Channel:	2462
Remark:	AV		

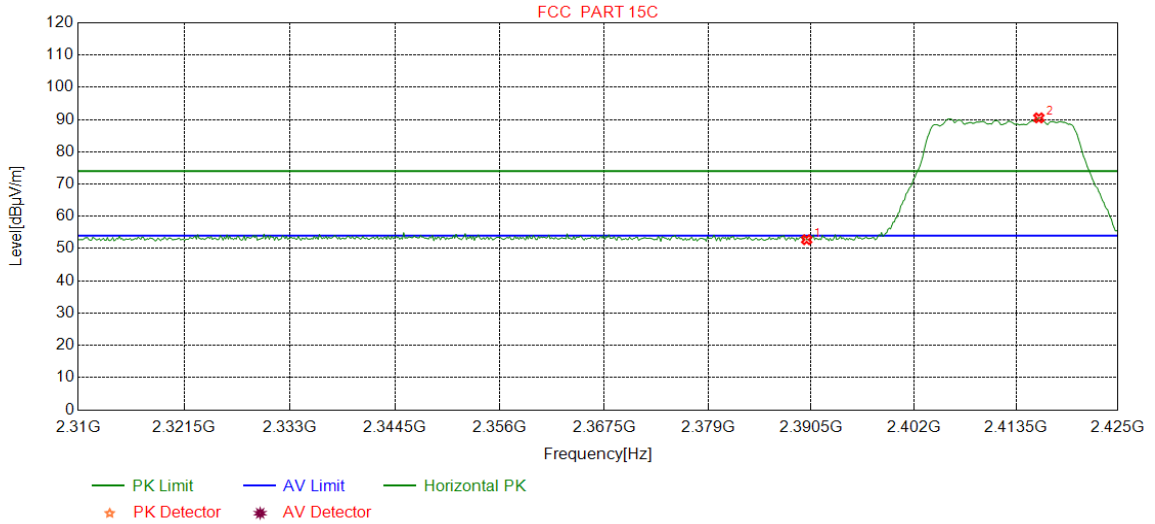
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2462.1627	32.35	13.47	-42.41	83.15	86.56	54.00	-32.56	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	40.67	44.03	54.00	9.97	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	PK		

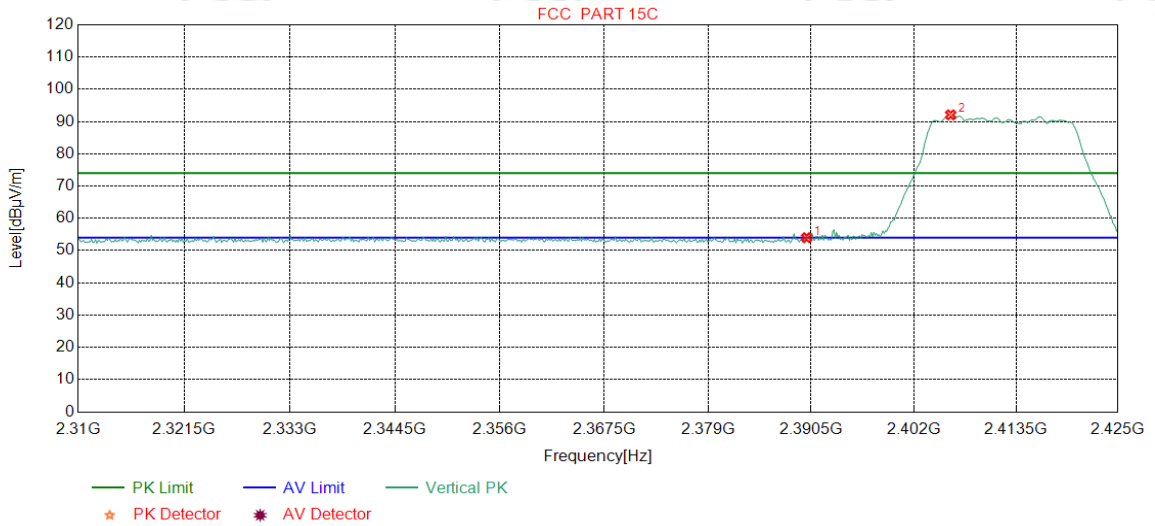
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.58	52.76	74.00	21.24	Pass	Horizontal
2	2416.0763	32.28	13.37	-42.42	87.29	90.52	74.00	-16.52	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	PK		

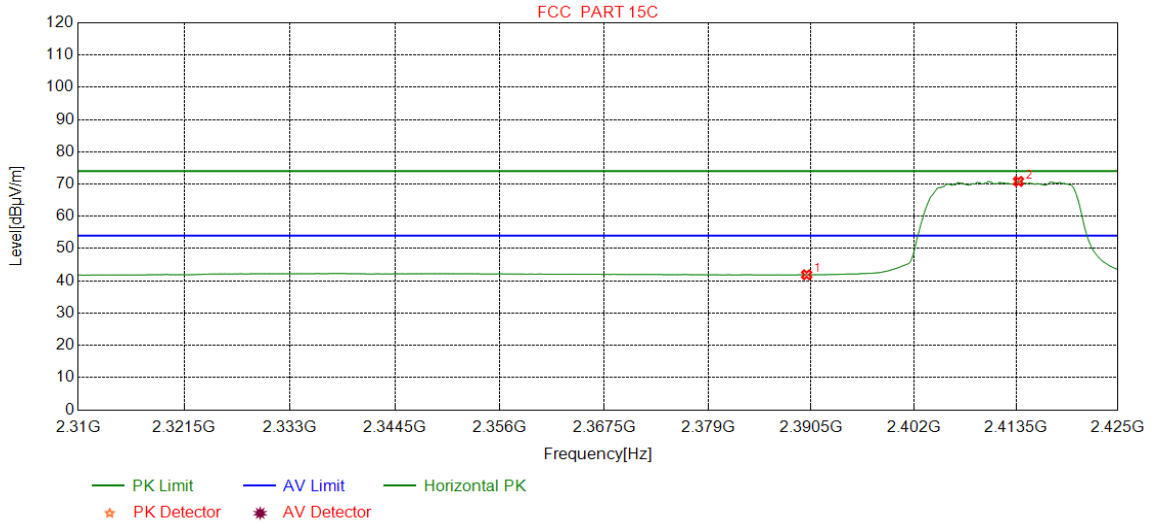
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	50.82	54.00	74.00	20.00	Pass	Vertical
2	2406.1452	32.27	13.33	-42.43	88.92	92.09	74.00	-18.09	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	AV		

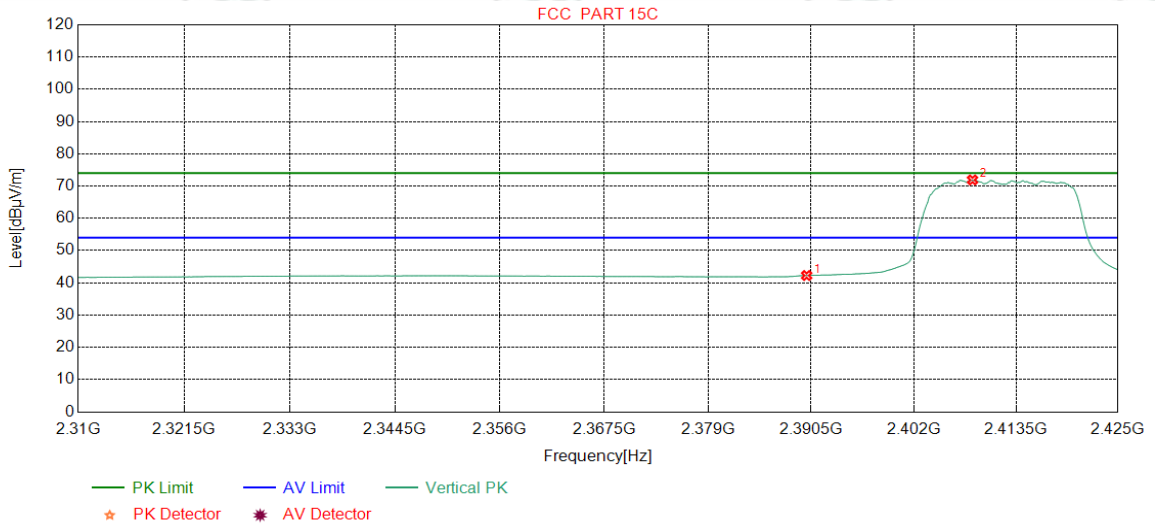
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.72	41.90	54.00	12.10	Pass	Horizontal
2	2413.7735	32.28	13.36	-42.43	67.62	70.83	54.00	-16.83	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2412
Remark:	AV		

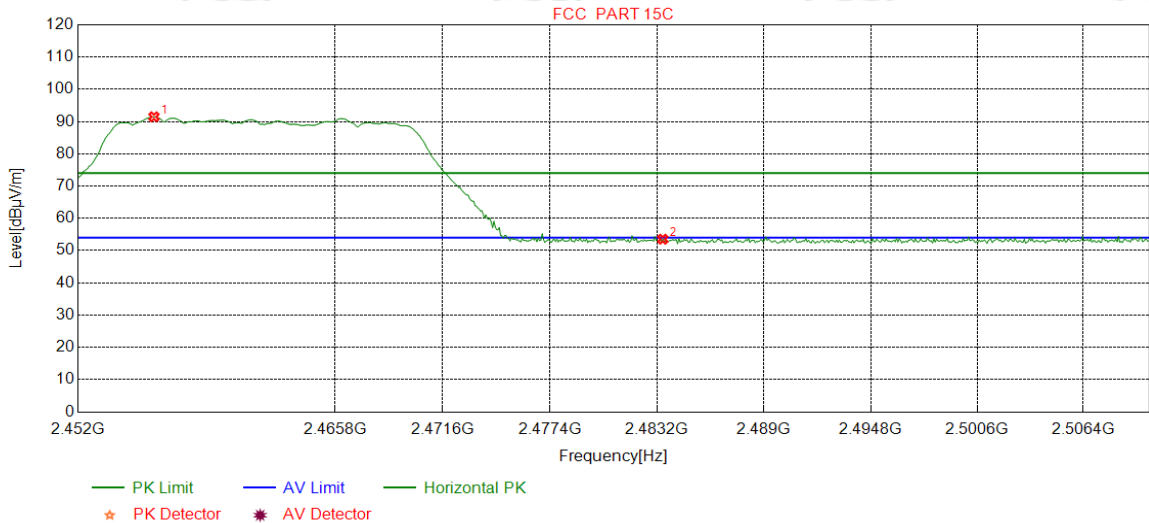
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	39.10	42.28	54.00	11.72	Pass	Vertical
2	2408.5920	32.27	13.34	-42.43	68.72	71.90	54.00	-17.90	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	PK		

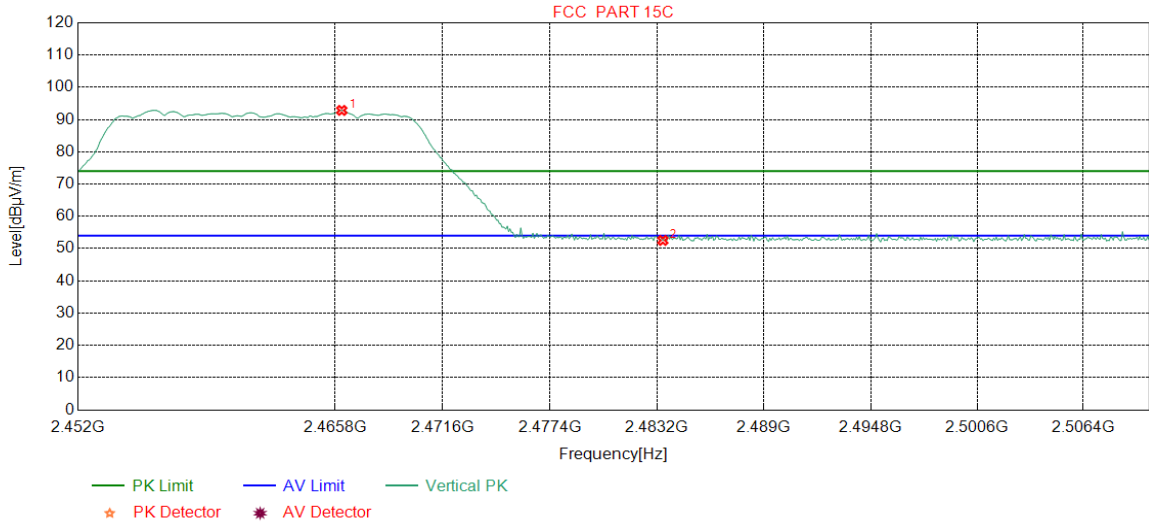
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2456.0651	32.34	13.50	-42.41	88.04	91.47	74.00	-17.47	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	50.17	53.53	74.00	20.47	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	PK		

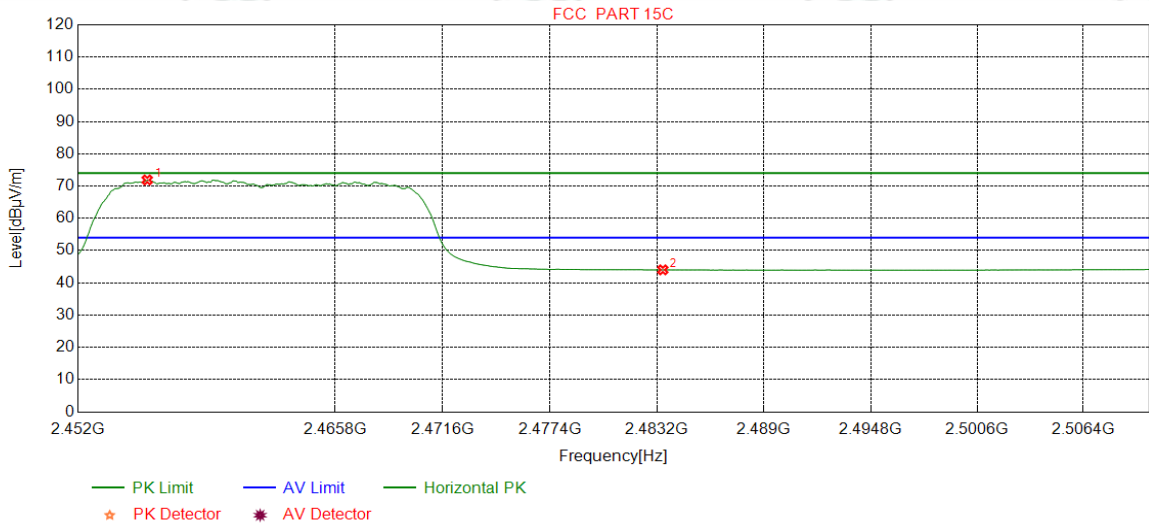
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2466.1552	32.35	13.46	-42.41	89.44	92.84	74.00	-18.84	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	49.17	52.53	74.00	21.47	Pass	Vertical

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	AV		

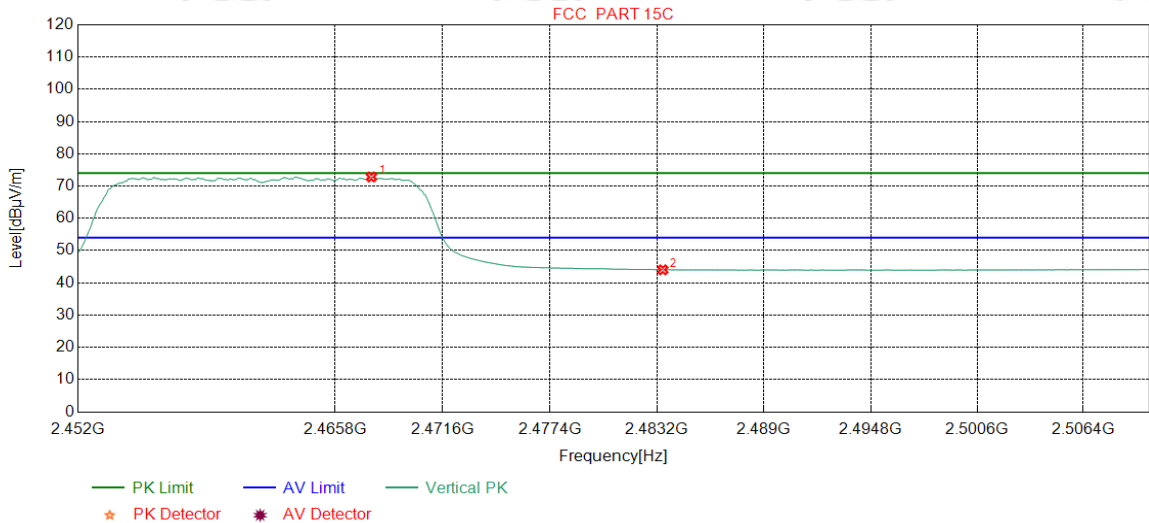
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.7021	32.34	13.50	-42.41	68.47	71.90	54.00	-17.90	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	40.67	44.03	54.00	9.97	Pass	Horizontal

Mode:	802.11 g(6Mbps) Transmitting	Channel:	2462
Remark:	AV		

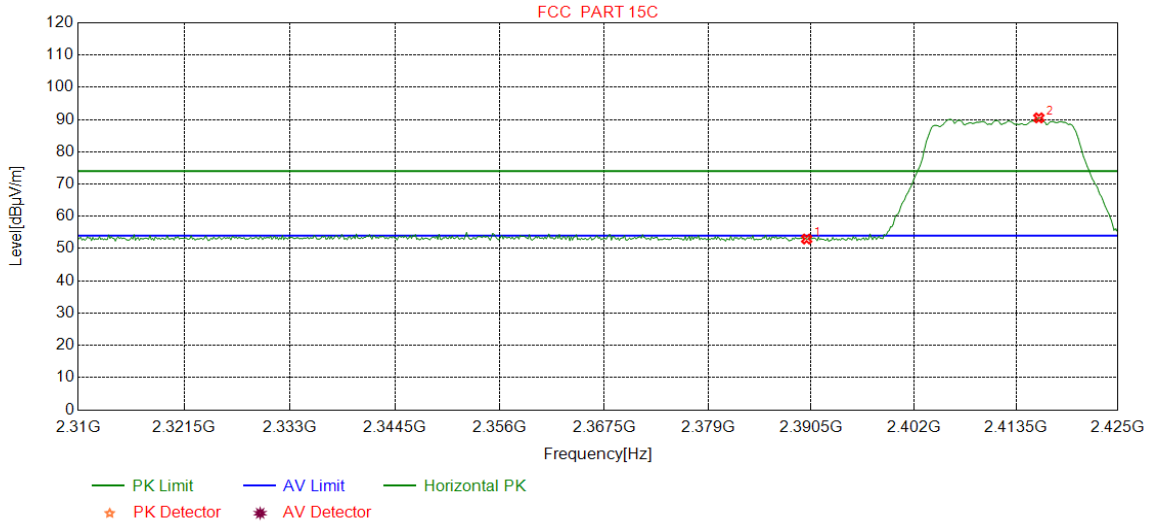
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2467.7522	32.35	13.45	-42.40	69.43	72.83	54.00	-18.83	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	40.68	44.04	54.00	9.96	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	PK		

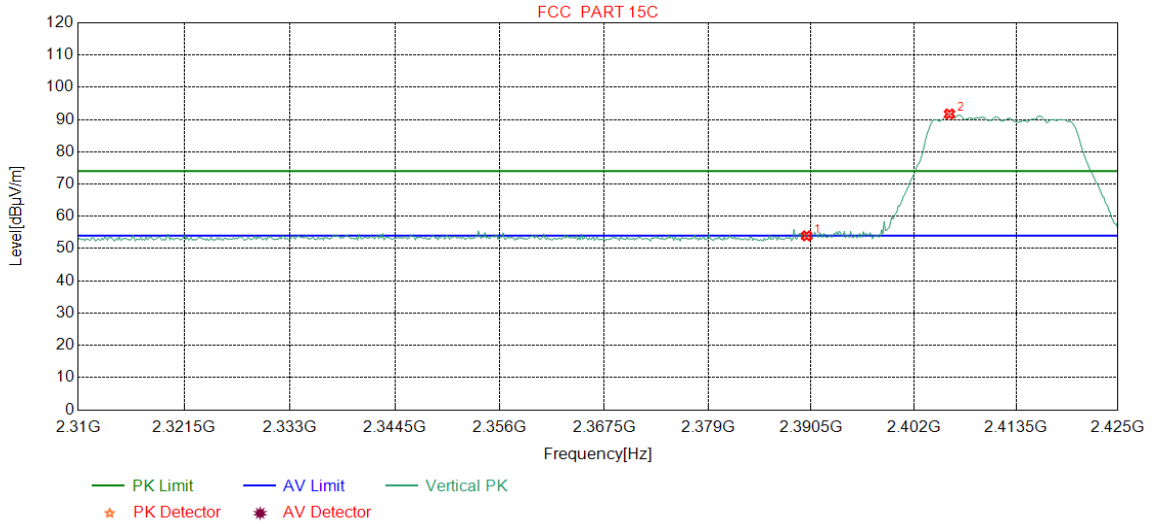
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.78	52.96	74.00	21.04	Pass	Horizontal
2	2416.0763	32.28	13.37	-42.42	87.29	90.52	74.00	-16.52	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	PK		

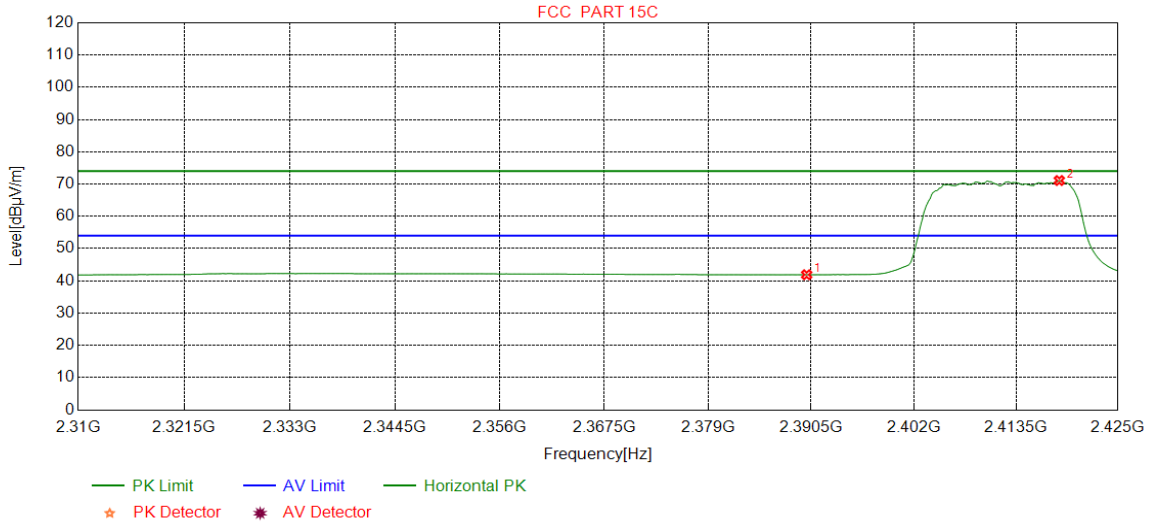
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	50.78	53.96	74.00	20.04	Pass	Vertical
2	2406.0013	32.27	13.33	-42.44	88.56	91.72	74.00	-17.72	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	AV		

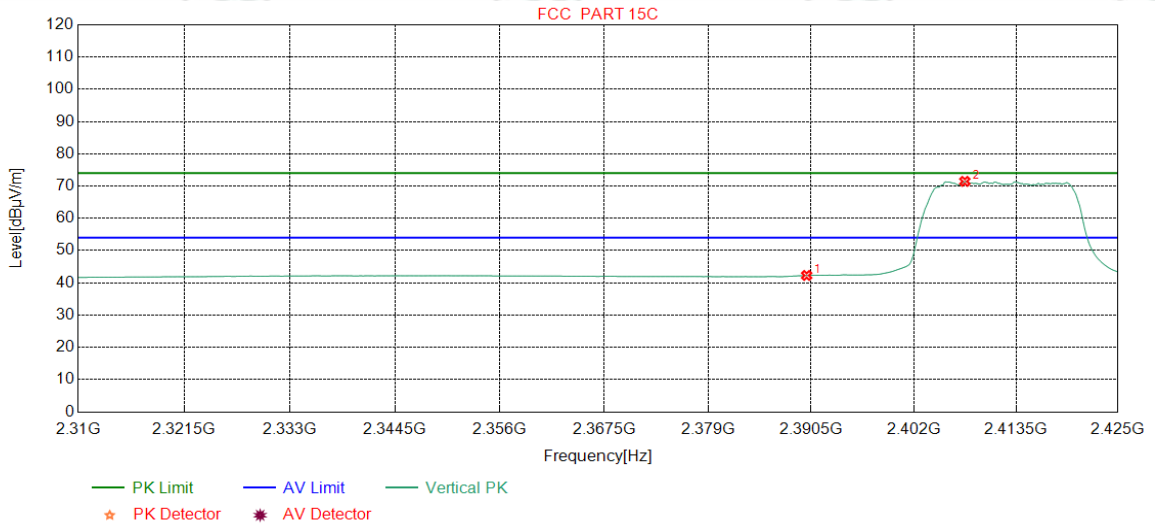
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.72	41.90	54.00	12.10	Pass	Horizontal
2	2418.3792	32.29	13.38	-42.43	67.86	71.10	54.00	-17.10	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2412
Remark:	AV		

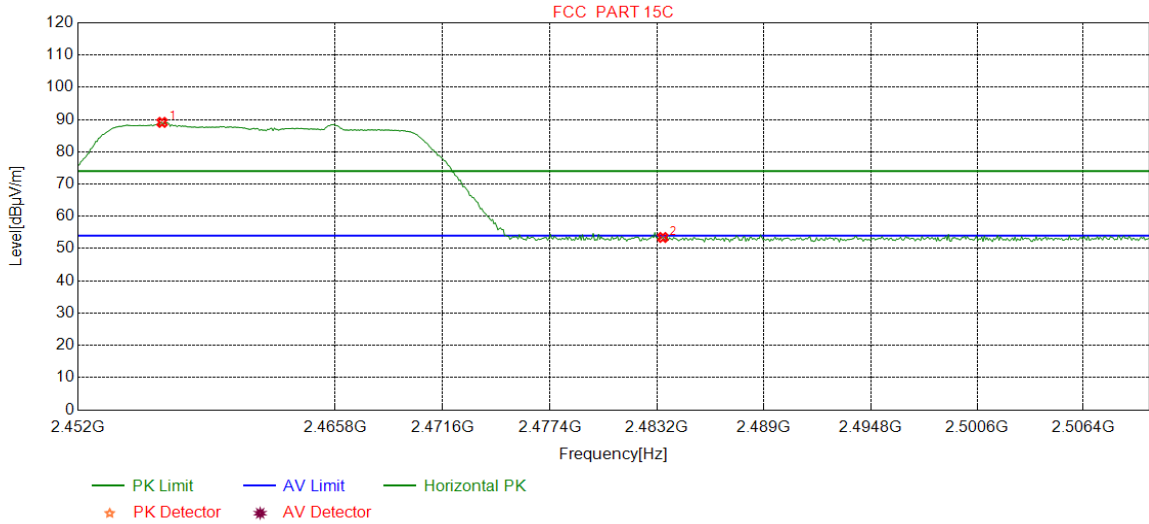
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	39.12	42.30	54.00	11.70	Pass	Vertical
2	2407.7284	32.27	13.34	-42.43	68.28	71.46	54.00	-17.46	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	PK		

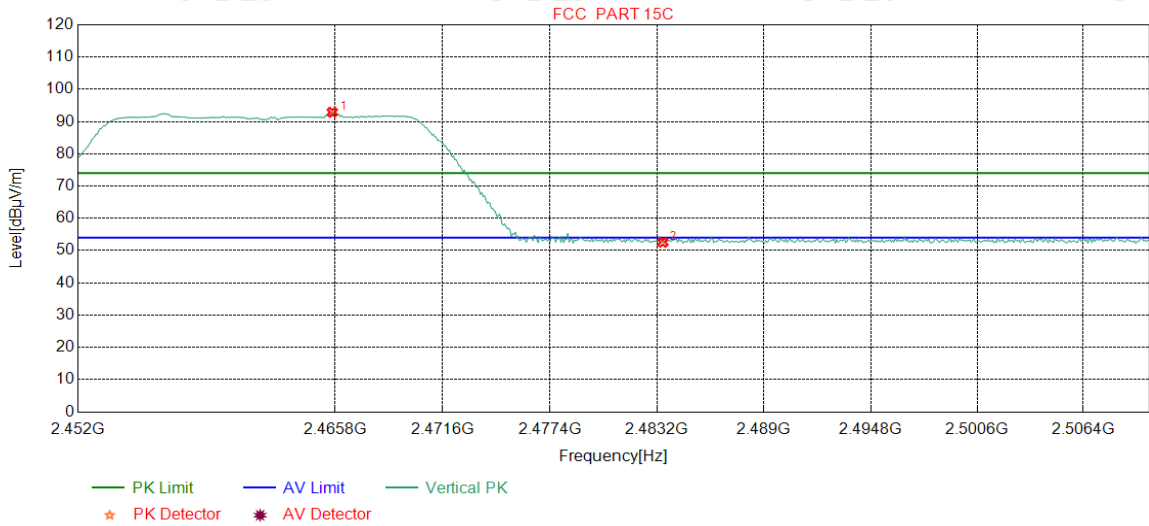
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2456.5006	32.34	13.50	-42.41	85.70	89.13	74.00	-15.13	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	50.10	53.46	74.00	20.54	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	PK		

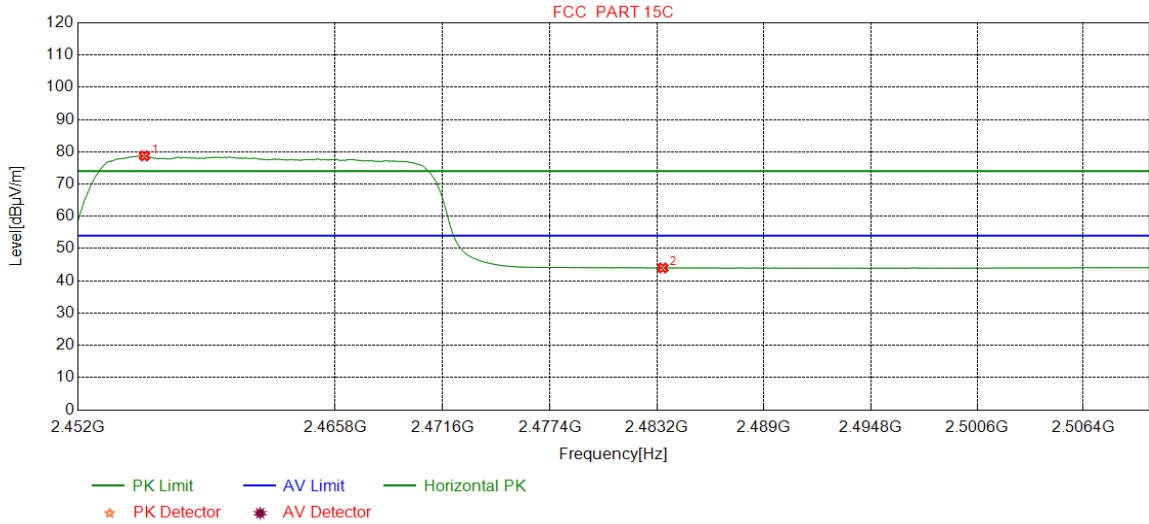
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2465.6471	32.35	13.46	-42.41	89.50	92.90	74.00	-18.90	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	49.20	52.56	74.00	21.44	Pass	Vertical

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	AV		

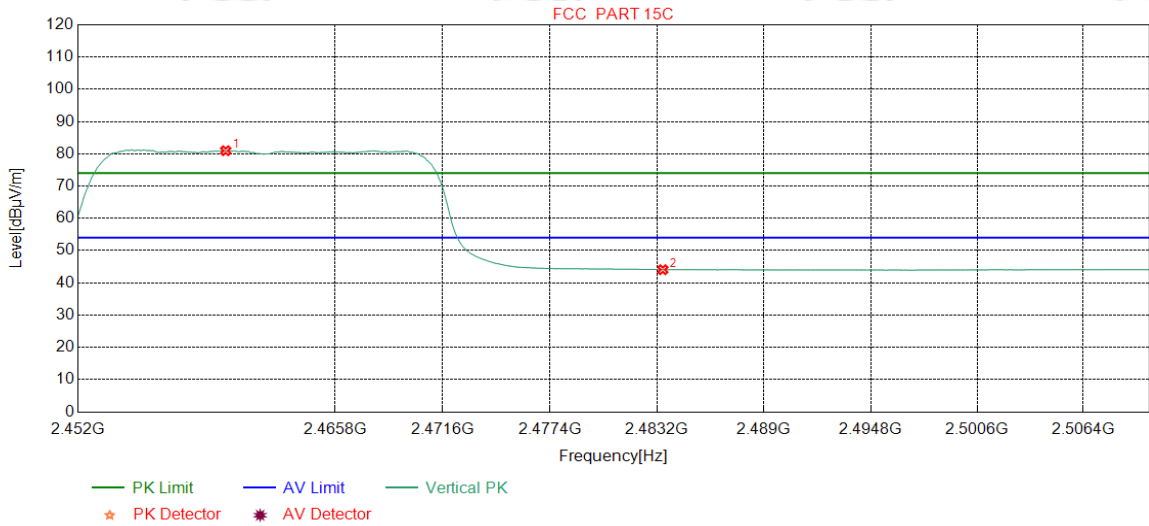
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.5569	32.34	13.50	-42.41	75.30	78.73	54.00	-24.73	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	40.66	44.02	54.00	9.98	Pass	Horizontal

Mode:	802.11 n(HT20) (6.5Mbps) Transmitting	Channel:	2462
Remark:	AV		

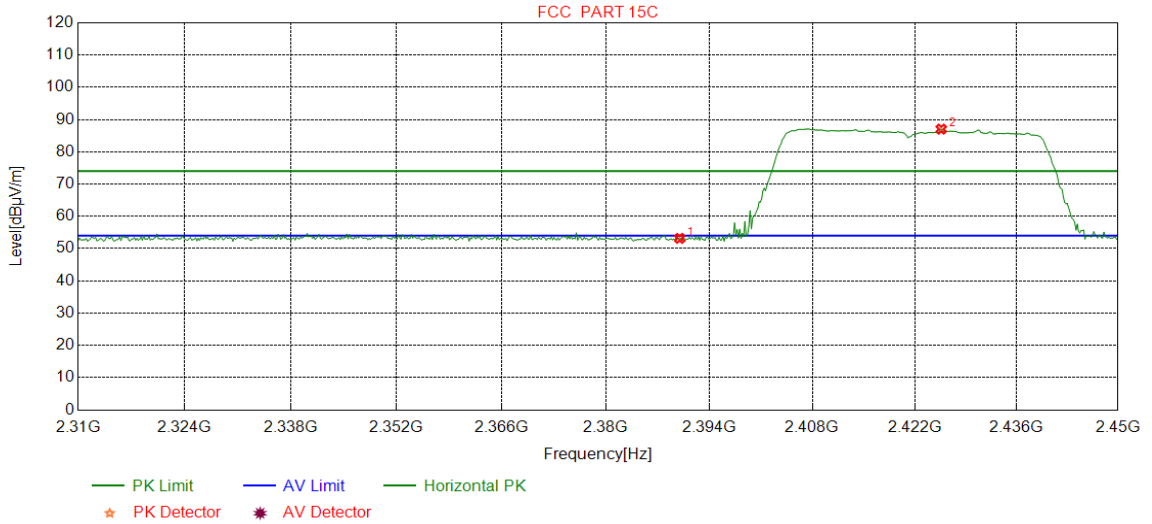
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2459.9124	32.34	13.48	-42.40	77.53	80.95	54.00	-26.95	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	40.72	44.08	54.00	9.92	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	PK		

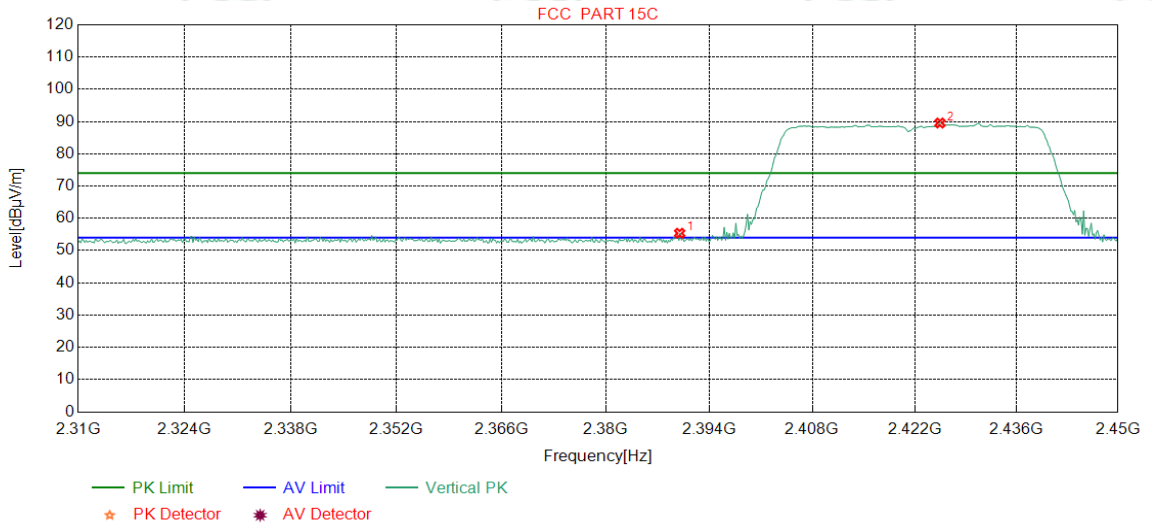
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	49.99	53.17	74.00	20.83	Pass	Horizontal
2	2425.6446	32.30	13.42	-42.43	83.75	87.04	74.00	-13.04	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	PK		

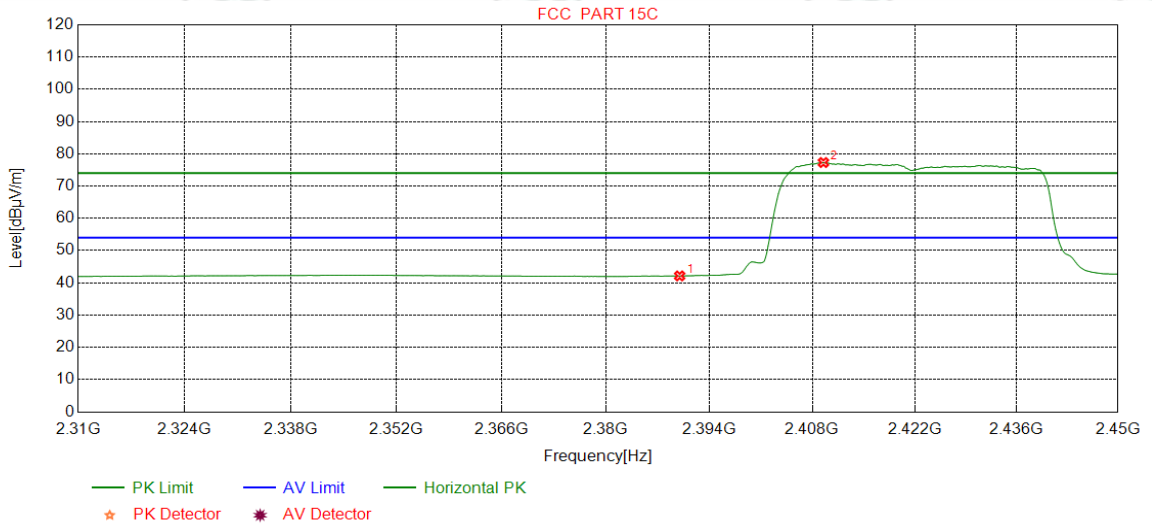
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	52.20	55.38	74.00	18.62	Pass	Vertical
2	2425.4693	32.30	13.42	-42.43	86.26	89.55	74.00	-15.55	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	AV		

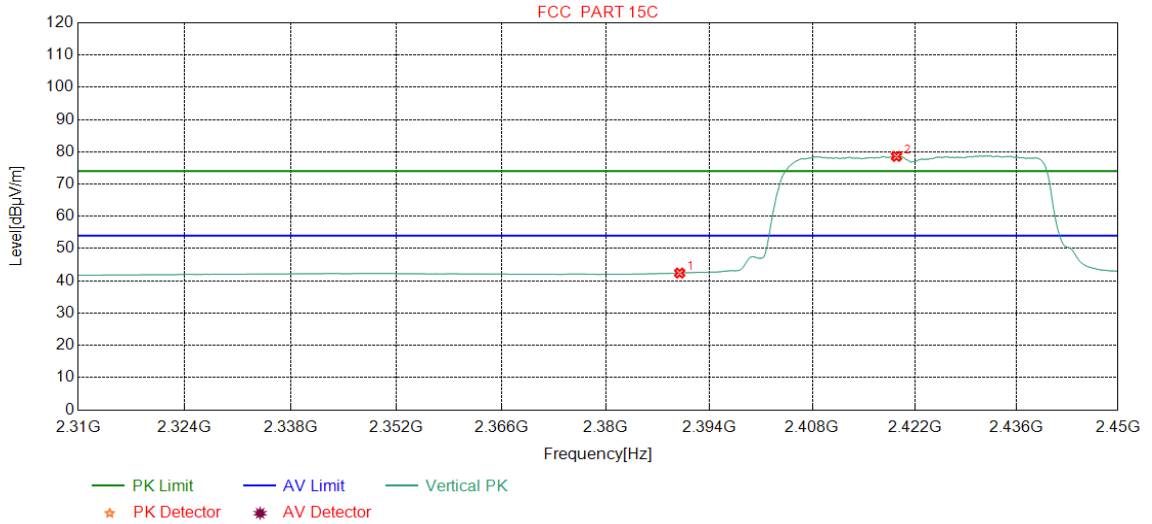
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	38.97	42.15	54.00	11.85	Pass	Horizontal
2	2409.5244	32.27	13.34	-42.42	74.11	77.30	54.00	-23.30	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2422
Remark:	AV		

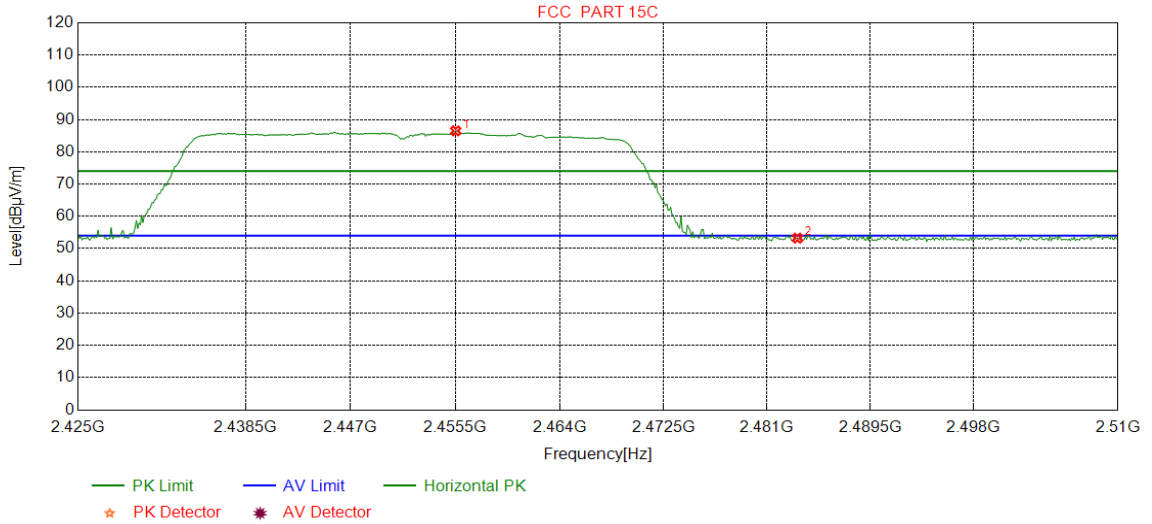
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2390.0000	32.25	13.37	-42.44	39.24	42.42	54.00	11.58	Pass	Vertical
2	2419.5119	32.29	13.39	-42.43	75.34	78.59	54.00	-24.59	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	PK		

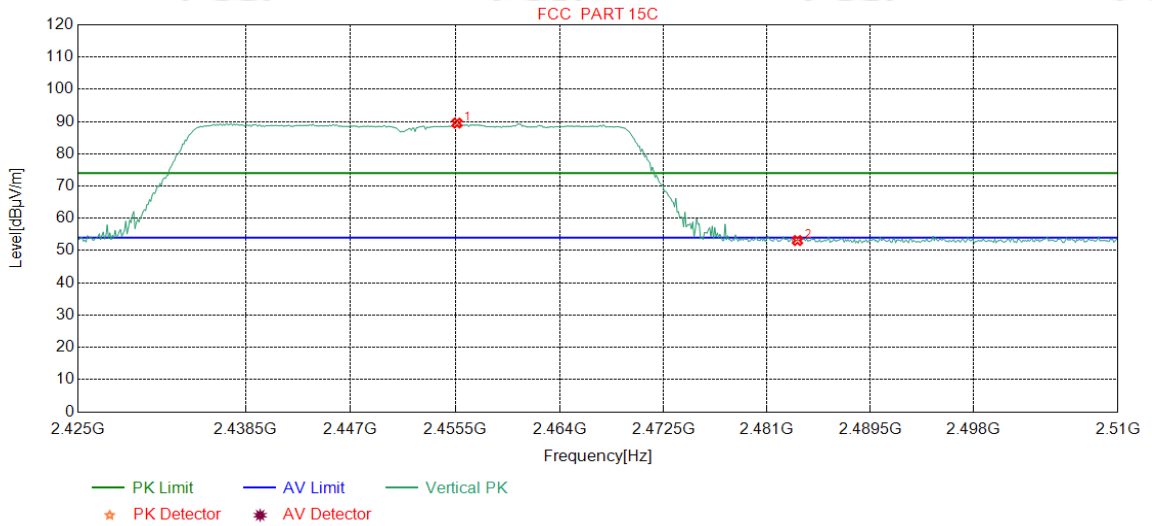
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.5319	32.34	13.50	-42.41	83.06	86.49	74.00	-12.49	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	49.88	53.24	74.00	20.76	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	PK		

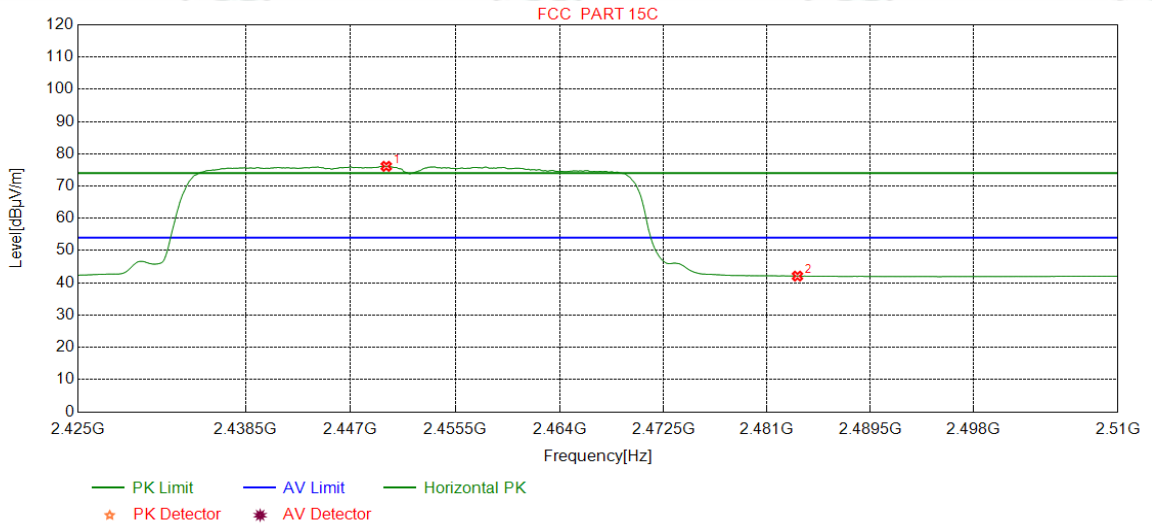
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2455.6383	32.34	13.50	-42.41	86.10	89.53	74.00	-15.53	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	49.75	53.11	74.00	20.89	Pass	Vertical

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	AV		

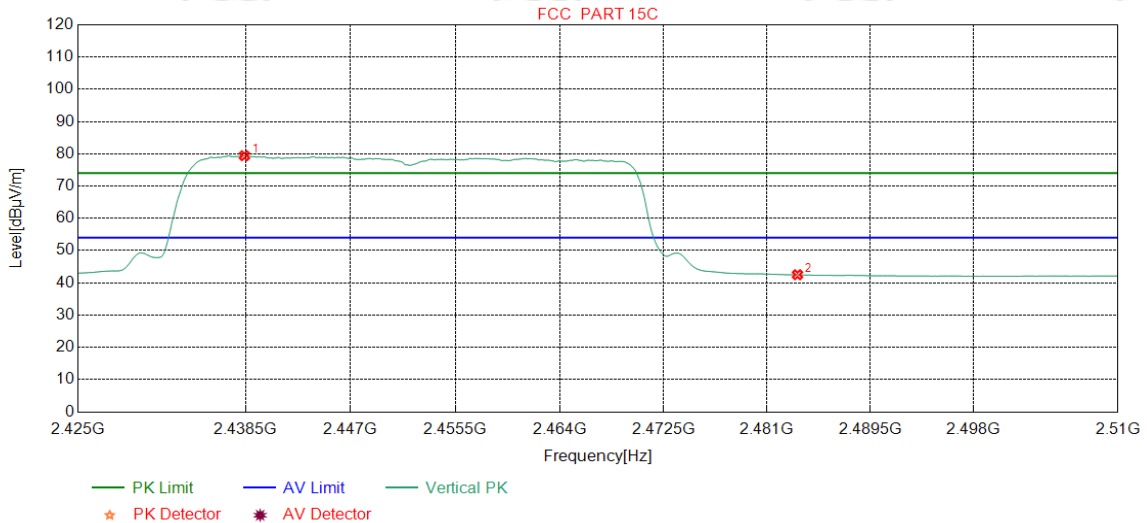
Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2449.8936	32.33	13.53	-42.41	72.67	76.12	54.00	-22.12	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	38.73	42.09	54.00	11.91	Pass	Horizontal

Mode:	802.11 n(HT40) (13.5Mbps) Transmitting	Channel:	2452
Remark:	AV		

Test Graph



NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity
1	2438.4043	32.31	13.48	-42.42	76.05	79.42	54.00	-25.42	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	39.16	42.52	54.00	11.48	Pass	Vertical

Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 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), and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Appendix I): Radiated Spurious Emissions

Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	

Test Procedure:
<p>Below 1GHz test procedure as below:</p> <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. <p>Above 1GHz test procedure as below:</p> <ol style="list-style-type: none"> Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter(Above 18GHz the distance is 1 meter and table is 1.5 meter).. Test the EUT in the lowest channel ,the middle channel ,the Highest channel The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case. Repeat above procedures until all frequencies measured was complete.

Limit:	Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Radiated Spurious Emissions test Data: Radiated Emissions below 1GHz

Mode:		802.11 b(11Mbps) Transmitting				Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	167.8508	8.33	1.52	-31.97	50.63	28.51	43.50	14.99	Pass	H
2	287.9488	12.96	2.02	-31.89	50.68	33.77	46.00	12.23	Pass	H
3	383.9884	15.05	2.33	-31.86	48.19	33.71	46.00	12.29	Pass	H
4	480.0280	16.68	2.61	-31.90	51.00	38.39	46.00	7.61	Pass	H
5	815.9726	21.09	3.43	-31.95	47.11	39.68	46.00	6.32	Pass	H
6	960.0320	22.46	3.71	-31.09	45.00	40.08	54.00	13.92	Pass	H
7	37.0817	11.37	0.68	-32.12	42.51	22.44	40.00	17.56	Pass	V
8	96.0636	10.37	1.13	-32.07	46.04	25.47	43.50	18.03	Pass	V
9	208.8859	11.13	1.71	-31.94	47.76	28.66	43.50	14.84	Pass	V
10	528.0478	17.56	2.75	-31.91	48.07	36.47	46.00	9.53	Pass	V
11	816.0696	21.09	3.43	-31.95	44.74	37.31	46.00	8.69	Pass	V
12	960.0320	22.46	3.71	-31.09	42.93	38.01	54.00	15.99	Pass	V

Mode:		802.11 b(11Mbps) Transmitting				Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	95.9666	10.35	1.13	-32.07	45.20	24.61	43.50	18.89	Pass	H
2	168.0448	8.34	1.52	-31.96	51.12	29.02	43.50	14.48	Pass	H
3	288.0458	12.96	2.02	-31.89	51.30	34.39	46.00	11.61	Pass	H
4	480.0280	16.68	2.61	-31.90	51.88	39.27	46.00	6.73	Pass	H
5	815.9726	21.09	3.43	-31.95	46.40	38.97	46.00	7.03	Pass	H
6	960.0320	22.46	3.71	-31.09	45.07	40.15	54.00	13.85	Pass	H
7	36.5967	11.21	0.67	-32.11	43.40	23.17	40.00	16.83	Pass	V
8	95.9666	10.35	1.13	-32.07	45.96	25.37	43.50	18.13	Pass	V
9	208.8859	11.13	1.71	-31.94	47.55	28.45	43.50	15.05	Pass	V
10	528.0478	17.56	2.75	-31.91	48.54	36.94	46.00	9.06	Pass	V
11	815.9726	21.09	3.43	-31.95	44.26	36.83	46.00	9.17	Pass	V
12	960.0320	22.46	3.71	-31.09	43.27	38.35	54.00	15.65	Pass	V

Mode:		802.11 b(11Mbps) Transmitting				Channel:		2462		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity
1	96.0636	10.37	1.13	-32.07	45.39	24.82	43.50	18.68	Pass	H
2	168.5299	8.37	1.52	-31.96	50.91	28.84	43.50	14.66	Pass	H
3	288.0458	12.96	2.02	-31.89	50.72	33.81	46.00	12.19	Pass	H
4	480.0280	16.68	2.61	-31.90	50.01	37.40	46.00	8.60	Pass	H
5	815.9726	21.09	3.43	-31.95	46.78	39.35	46.00	6.65	Pass	H
6	912.0122	22.17	3.61	-31.46	45.41	39.73	46.00	6.27	Pass	H
7	96.0636	10.37	1.13	-32.07	45.53	24.96	43.50	18.54	Pass	V
8	143.9864	7.34	1.41	-31.99	46.61	23.37	43.50	20.13	Pass	V
9	208.8859	11.13	1.71	-31.94	47.84	28.74	43.50	14.76	Pass	V
10	528.0478	17.56	2.75	-31.91	48.41	36.81	46.00	9.19	Pass	V
11	815.9726	21.09	3.43	-31.95	44.37	36.94	46.00	9.06	Pass	V
12	960.0320	22.46	3.71	-31.09	42.24	37.32	54.00	16.68	Pass	V

Mode:		802.11 g(6Mbps) Transmitting				Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dB μ V]	Level [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Result	Polarity
1	143.9864	7.34	1.41	-31.99	52.23	28.99	43.50	14.51	Pass	H
2	168.0448	8.34	1.52	-31.96	50.88	28.78	43.50	14.72	Pass	H
3	288.0458	12.96	2.02	-31.89	50.89	33.98	46.00	12.02	Pass	H
4	432.0082	15.91	2.46	-31.83	48.03	34.57	46.00	11.43	Pass	H
5	480.0280	16.68	2.61	-31.90	50.62	38.01	46.00	7.99	Pass	H
6	912.0122	22.17	3.61	-31.46	45.59	39.91	46.00	6.09	Pass	H
7	96.0636	10.37	1.13	-32.07	45.42	24.85	43.50	18.65	Pass	V
8	208.8859	11.13	1.71	-31.94	48.04	28.94	43.50	14.56	Pass	V
9	528.0478	17.56	2.75	-31.91	48.16	36.56	46.00	9.44	Pass	V
10	815.9726	21.09	3.43	-31.95	44.44	37.01	46.00	8.99	Pass	V
11	912.0122	22.17	3.61	-31.46	41.79	36.11	46.00	9.89	Pass	V
12	960.0320	22.46	3.71	-31.09	42.19	37.27	54.00	16.73	Pass	V

Mode:		802.11 g(6Mbps) Transmitting				Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	143.9864	7.34	1.41	-31.99	51.47	28.23	43.50	15.27	Pass	H
2	168.0448	8.34	1.52	-31.96	51.16	29.06	43.50	14.44	Pass	H
3	480.0280	16.68	2.61	-31.90	48.44	35.83	46.00	10.17	Pass	H
4	815.9726	21.09	3.43	-31.95	46.36	38.93	46.00	7.07	Pass	H
5	912.0122	22.17	3.61	-31.46	44.93	39.25	46.00	6.75	Pass	H
6	960.0320	22.46	3.71	-31.09	44.49	39.57	54.00	14.43	Pass	H
7	36.8877	11.30	0.68	-32.11	41.56	21.43	40.00	18.57	Pass	V
8	96.0636	10.37	1.13	-32.07	45.72	25.15	43.50	18.35	Pass	V
9	208.8859	11.13	1.71	-31.94	48.21	29.11	43.50	14.39	Pass	V
10	528.0478	17.56	2.75	-31.91	48.04	36.44	46.00	9.56	Pass	V
11	815.9726	21.09	3.43	-31.95	44.21	36.78	46.00	9.22	Pass	V
12	960.0320	22.46	3.71	-31.09	42.04	37.12	54.00	16.88	Pass	V

Mode:		802.11 g(6Mbps) Transmitting				Channel:		2462		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity
1	95.9666	10.35	1.13	-32.07	45.47	24.88	43.50	18.62	Pass	H
2	143.9864	7.34	1.41	-31.99	52.37	29.13	43.50	14.37	Pass	H
3	288.0458	12.96	2.02	-31.89	50.14	33.23	46.00	12.77	Pass	H
4	480.0280	16.68	2.61	-31.90	48.11	35.50	46.00	10.50	Pass	H
5	815.9726	21.09	3.43	-31.95	46.49	39.06	46.00	6.94	Pass	H
6	960.0320	22.46	3.71	-31.09	44.93	40.01	54.00	13.99	Pass	H
7	36.8877	11.30	0.68	-32.11	41.01	20.88	40.00	19.12	Pass	V
8	96.0636	10.37	1.13	-32.07	46.43	25.86	43.50	17.64	Pass	V
9	208.8859	11.13	1.71	-31.94	48.49	29.39	43.50	14.11	Pass	V
10	528.0478	17.56	2.75	-31.91	48.23	36.63	46.00	9.37	Pass	V
11	815.9726	21.09	3.43	-31.95	44.21	36.78	46.00	9.22	Pass	V
12	960.0320	22.46	3.71	-31.09	41.75	36.83	54.00	17.17	Pass	V

Mode:		802.11 n(HT20) (6.5Mbps) Transmitting					Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	
1	96.0636	10.37	1.13	-32.07	45.69	25.12	43.50	18.38	Pass	H	
2	167.9478	8.34	1.52	-31.97	50.49	28.38	43.50	15.12	Pass	H	
3	288.0458	12.96	2.02	-31.89	50.24	33.33	46.00	12.67	Pass	H	
4	480.0280	16.68	2.61	-31.90	50.99	38.38	46.00	7.62	Pass	H	
5	815.9726	21.09	3.43	-31.95	46.65	39.22	46.00	6.78	Pass	H	
6	960.0320	22.46	3.71	-31.09	44.28	39.36	54.00	14.64	Pass	H	
7	34.2684	10.67	0.65	-32.12	41.71	20.91	40.00	19.09	Pass	V	
8	95.9666	10.35	1.13	-32.07	45.11	24.52	43.50	18.98	Pass	V	
9	208.8859	11.13	1.71	-31.94	47.87	28.77	43.50	14.73	Pass	V	
10	528.0478	17.56	2.75	-31.91	48.62	37.02	46.00	8.98	Pass	V	
11	815.9726	21.09	3.43	-31.95	44.77	37.34	46.00	8.66	Pass	V	
12	960.0320	22.46	3.71	-31.09	41.42	36.50	54.00	17.50	Pass	V	

Mode:		802.11 n(HT20) (6.5Mbps) Transmitting					Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	
1	168.3358	8.36	1.52	-31.96	50.46	28.38	43.50	15.12	Pass	H	
2	288.0458	12.96	2.02	-31.89	51.26	34.35	46.00	11.65	Pass	H	
3	383.9884	15.05	2.33	-31.86	48.32	33.84	46.00	12.16	Pass	H	
4	480.0280	16.68	2.61	-31.90	51.11	38.50	46.00	7.50	Pass	H	
5	815.9726	21.09	3.43	-31.95	46.74	39.31	46.00	6.69	Pass	H	
6	912.0122	22.17	3.61	-31.46	45.23	39.55	46.00	6.45	Pass	H	
7	36.8877	11.30	0.68	-32.11	41.73	21.60	40.00	18.40	Pass	V	
8	96.0636	10.37	1.13	-32.07	45.30	24.73	43.50	18.77	Pass	V	
9	208.8859	11.13	1.71	-31.94	48.17	29.07	43.50	14.43	Pass	V	
10	528.0478	17.56	2.75	-31.91	48.28	36.68	46.00	9.32	Pass	V	
11	815.9726	21.09	3.43	-31.95	44.44	37.01	46.00	8.99	Pass	V	
12	960.0320	22.46	3.71	-31.09	41.93	37.01	54.00	16.99	Pass	V	

Mode:		802.11 n(HT20) (6.5Mbps) Transmitting					Channel:		2462		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	
1	36.6937	11.24	0.67	-32.11	41.18	20.98	40.00	19.02	Pass	H	
2	72.0052	8.62	0.97	-32.05	44.47	22.01	40.00	17.99	Pass	H	
3	167.8508	8.33	1.52	-31.97	50.70	28.58	43.50	14.92	Pass	H	
4	287.9488	12.96	2.02	-31.89	50.57	33.66	46.00	12.34	Pass	H	
5	480.0280	16.68	2.61	-31.90	49.96	37.35	46.00	8.65	Pass	H	
6	912.0122	22.17	3.61	-31.46	45.45	39.77	46.00	6.23	Pass	H	
7	36.7907	11.27	0.68	-32.12	41.38	21.21	40.00	18.79	Pass	V	
8	55.8046	12.27	0.85	-32.07	39.24	20.29	40.00	19.71	Pass	V	
9	96.0636	10.37	1.13	-32.07	45.58	25.01	43.50	18.49	Pass	V	
10	208.8859	11.13	1.71	-31.94	47.90	28.80	43.50	14.70	Pass	V	
11	528.0478	17.56	2.75	-31.91	48.51	36.91	46.00	9.09	Pass	V	
12	815.9726	21.09	3.43	-31.95	44.35	36.92	46.00	9.08	Pass	V	

Mode:		802.11 n(HT40) (13.5Mbps) Transmitting					Channel:		2422		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	
1	36.6937	11.24	0.67	-32.11	41.10	20.90	40.00	19.10	Pass	H	
2	72.1022	8.60	0.98	-32.06	44.37	21.89	40.00	18.11	Pass	H	
3	143.9864	7.34	1.41	-31.99	51.20	27.96	43.50	15.54	Pass	H	
4	288.0458	12.96	2.02	-31.89	51.02	34.11	46.00	11.89	Pass	H	
5	480.0280	16.68	2.61	-31.90	50.83	38.22	46.00	7.78	Pass	H	
6	815.9726	21.09	3.43	-31.95	46.54	39.11	46.00	6.89	Pass	H	
7	36.6937	11.24	0.67	-32.11	43.45	23.25	40.00	16.75	Pass	V	
8	54.7375	12.44	0.84	-32.08	38.95	20.15	40.00	19.85	Pass	V	
9	95.9666	10.35	1.13	-32.07	46.43	25.84	43.50	17.66	Pass	V	
10	208.8859	11.13	1.71	-31.94	47.83	28.73	43.50	14.77	Pass	V	
11	528.0478	17.56	2.75	-31.91	48.23	36.63	46.00	9.37	Pass	V	
12	815.9726	21.09	3.43	-31.95	44.94	37.51	46.00	8.49	Pass	V	

Mode:		802.11 n(HT40) (13.5Mbps) Transmitting					Channel:	2437			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	
1	36.6937	11.24	0.67	-32.11	39.96	19.76	40.00	20.24	Pass	H	
2	72.0052	8.62	0.97	-32.05	43.17	20.71	40.00	19.29	Pass	H	
3	95.9666	10.35	1.13	-32.07	45.17	24.58	43.50	18.92	Pass	H	
4	168.0448	8.34	1.52	-31.96	50.84	28.74	43.50	14.76	Pass	H	
5	480.0280	16.68	2.61	-31.90	50.24	37.63	46.00	8.37	Pass	H	
6	912.0122	22.17	3.61	-31.46	45.52	39.84	46.00	6.16	Pass	H	
7	36.5967	11.21	0.67	-32.11	42.43	22.20	40.00	17.80	Pass	V	
8	55.5136	12.32	0.85	-32.08	39.45	20.54	40.00	19.46	Pass	V	
9	96.0636	10.37	1.13	-32.07	45.79	25.22	43.50	18.28	Pass	V	
10	208.8859	11.13	1.71	-31.94	47.69	28.59	43.50	14.91	Pass	V	
11	528.0478	17.56	2.75	-31.91	48.43	36.83	46.00	9.17	Pass	V	
12	815.9726	21.09	3.43	-31.95	44.69	37.26	46.00	8.74	Pass	V	

Mode:		802.11 n(HT40) (13.5Mbps) Transmitting					Channel:	2452			
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	
1	36.5967	11.21	0.67	-32.11	39.53	19.30	40.00	20.70	Pass	H	
2	143.9864	7.34	1.41	-31.99	51.44	28.20	43.50	15.30	Pass	H	
3	168.0448	8.34	1.52	-31.96	51.94	29.84	43.50	13.66	Pass	H	
4	480.0280	16.68	2.61	-31.90	49.78	37.17	46.00	8.83	Pass	H	
5	815.9726	21.09	3.43	-31.95	46.55	39.12	46.00	6.88	Pass	H	
6	960.0320	22.46	3.71	-31.09	44.82	39.90	54.00	14.10	Pass	H	
7	36.6937	11.24	0.67	-32.11	42.67	22.47	40.00	17.53	Pass	V	
8	96.0636	10.37	1.13	-32.07	45.47	24.90	43.50	18.60	Pass	V	
9	208.8859	11.13	1.71	-31.94	48.06	28.96	43.50	14.54	Pass	V	
10	528.0478	17.56	2.75	-31.91	48.72	37.12	46.00	8.88	Pass	V	
11	815.9726	21.09	3.43	-31.95	44.00	36.57	46.00	9.43	Pass	V	
12	960.0320	22.46	3.71	-31.09	41.56	36.64	54.00	17.36	Pass	V	

Transmitter Emission above 1GHz

Mode:		802.11 b(11Mbps) Transmitting					Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2000.1000	31.70	3.47	-42.61	56.65	49.21	74.00	24.79	Pass	H	PK
2	3004.0003	33.20	4.92	-42.11	50.44	46.45	74.00	27.55	Pass	H	PK
3	4824.1216	34.50	4.61	-40.65	56.69	55.15	74.00	18.85	Pass	H	PK
4	7236.0000	36.34	5.79	-40.99	47.20	48.34	74.00	25.66	Pass	H	PK
5	9648.0000	37.66	6.72	-40.73	43.32	46.97	74.00	27.03	Pass	H	PK
6	10935.529	38.59	7.25	-41.12	44.82	49.54	74.00	24.46	Pass	H	PK
7	4823.9316	34.50	4.61	-40.64	48.20	46.67	54.00	7.33	Pass	H	AV
8	3246.0164	33.30	4.47	-41.98	50.25	46.04	74.00	27.96	Pass	V	PK
9	4824.1216	34.50	4.61	-40.65	59.72	58.18	74.00	15.82	Pass	V	PK
10	5967.1978	35.75	5.33	-41.07	45.77	45.78	74.00	28.22	Pass	V	PK
11	7236.0000	36.34	5.79	-40.99	49.20	50.34	74.00	23.66	Pass	V	PK
12	9648.0000	37.66	6.72	-40.73	43.70	47.35	74.00	26.65	Pass	V	PK
13	4823.9316	34.50	4.61	-40.64	51.55	50.02	54.00	3.98	Pass	V	AV

Mode:		802.11 b(11Mbps) Transmitting					Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1794.0794	30.34	3.31	-42.71	57.75	48.69	74.00	25.31	Pass	H	PK
2	3136.0091	33.25	4.61	-42.03	51.14	46.97	74.00	27.03	Pass	H	PK
3	4874.1249	34.50	4.78	-40.61	56.73	55.40	74.00	18.60	Pass	H	PK
4	7311.0000	36.41	5.85	-40.93	48.81	50.14	74.00	23.86	Pass	H	PK
5	8164.3443	36.47	6.40	-40.86	47.07	49.08	74.00	24.92	Pass	H	PK
6	9748.0000	37.70	6.77	-40.63	45.39	49.23	74.00	24.77	Pass	H	PK
7	4873.9549	34.50	4.78	-40.60	49.98	48.66	54.00	5.34	Pass	H	AV
8	1592.8593	29.01	3.06	-42.88	59.17	48.36	74.00	25.64	Pass	V	PK
9	1899.8900	31.04	3.42	-42.66	55.95	47.75	74.00	26.25	Pass	V	PK
10	3590.0393	33.47	4.36	-41.63	49.58	45.78	74.00	28.22	Pass	V	PK
11	4874.1249	34.50	4.78	-40.61	58.71	57.38	74.00	16.62	Pass	V	PK
12	7311.0000	36.41	5.85	-40.93	50.22	51.55	74.00	22.45	Pass	V	PK
13	9748.0000	37.70	6.77	-40.63	45.49	49.33	74.00	24.67	Pass	V	PK
14	4874.0249	34.50	4.78	-40.60	51.80	50.48	54.00	3.52	Pass	V	AV

Mode:		802.11 b(11Mbps) Transmitting					Channel:		2462		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2267.5268	32.07	3.79	-42.48	52.43	45.81	74.00	28.19	Pass	H	PK
2	2963.1963	33.14	4.44	-42.14	50.79	46.23	74.00	27.77	Pass	H	PK
3	4924.1283	34.50	4.85	-40.56	55.50	54.29	74.00	19.71	Pass	H	PK
4	7386.0000	36.49	5.85	-40.87	48.17	49.64	74.00	24.36	Pass	H	PK
5	9848.0000	37.74	6.83	-40.54	43.46	47.49	74.00	26.51	Pass	H	PK
6	11054.537	38.63	7.33	-41.14	45.79	50.61	74.00	23.39	Pass	H	PK
7	4923.8383	34.50	4.85	-40.56	49.39	48.18	54.00	5.82	Pass	H	AV
8	1837.2837	30.63	3.36	-42.69	56.17	47.47	74.00	26.53	Pass	V	PK
9	2597.1597	32.56	4.10	-42.34	55.63	49.95	74.00	24.05	Pass	V	PK
10	2991.7992	33.19	4.53	-42.13	51.80	47.39	74.00	26.61	Pass	V	PK
11	4924.1283	34.50	4.85	-40.56	57.98	56.77	74.00	17.23	Pass	V	PK
12	7386.0000	36.49	5.85	-40.87	51.08	52.55	74.00	21.45	Pass	V	PK
13	9848.0000	37.74	6.83	-40.54	43.59	47.62	74.00	26.38	Pass	V	PK
14	4923.9683	34.50	4.85	-40.56	51.20	49.99	54.00	4.01	Pass	V	AV

Mode:		802.11 g(6Mbps) Transmitting					Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1796.4796	30.36	3.31	-42.71	57.49	48.45	74.00	25.55	Pass	H	PK
2	1995.2995	31.67	3.47	-42.62	55.22	47.74	74.00	26.26	Pass	H	PK
3	3015.0010	33.21	4.90	-42.12	50.13	46.12	74.00	27.88	Pass	H	PK
4	4824.0000	34.50	4.61	-40.65	50.56	49.02	74.00	24.98	Pass	H	PK
5	7236.0000	36.34	5.79	-40.99	46.54	47.68	74.00	26.32	Pass	H	PK
6	9648.0000	37.66	6.72	-40.73	46.45	50.10	74.00	23.90	Pass	H	PK
7	1838.2838	30.63	3.37	-42.69	56.86	48.17	74.00	25.83	Pass	V	PK
8	2191.7192	31.97	3.65	-42.53	56.41	49.50	74.00	24.50	Pass	V	PK
9	2987.1987	33.18	4.51	-42.13	51.47	47.03	74.00	26.97	Pass	V	PK
10	4824.0000	34.50	4.61	-40.65	53.01	51.47	74.00	22.53	Pass	V	PK
11	7236.0000	36.34	5.79	-40.99	45.30	46.44	74.00	27.56	Pass	V	PK
12	9648.0000	37.66	6.72	-40.73	45.33	48.98	74.00	25.02	Pass	V	PK

Mode:		802.11 g(6Mbps) Transmitting					Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1792.2792	30.33	3.31	-42.71	57.21	48.14	74.00	25.86	Pass	H	PK
2	1995.8996	31.67	3.47	-42.61	54.35	46.88	74.00	27.12	Pass	H	PK
3	3280.0187	33.31	4.53	-41.95	49.97	45.86	74.00	28.14	Pass	H	PK
4	4874.0000	34.50	4.78	-40.61	48.80	47.47	74.00	26.53	Pass	H	PK
5	7311.0000	36.41	5.85	-40.93	45.43	46.76	74.00	27.24	Pass	H	PK
6	9748.0000	37.70	6.77	-40.63	44.17	48.01	74.00	25.99	Pass	H	PK
7	1592.4592	29.01	3.06	-42.88	59.15	48.34	74.00	25.66	Pass	V	PK
8	2199.3199	31.98	3.65	-42.52	56.20	49.31	74.00	24.69	Pass	V	PK
9	2843.3843	32.95	4.23	-42.20	54.42	49.40	74.00	24.60	Pass	V	PK
10	4874.0000	34.50	4.78	-40.61	52.35	51.02	74.00	22.98	Pass	V	PK
11	7311.0000	36.41	5.85	-40.93	45.05	46.38	74.00	27.62	Pass	V	PK
12	9748.0000	37.70	6.77	-40.63	44.95	48.79	74.00	25.21	Pass	V	PK

Mode:		802.11 g(6Mbps) Transmitting					Channel:		2462		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1994.0994	31.66	3.46	-42.61	56.38	48.89	74.00	25.11	Pass	H	PK
2	3047.0031	33.22	4.84	-42.10	50.27	46.23	74.00	27.77	Pass	H	PK
3	4924.0000	34.50	4.85	-40.56	49.94	48.73	74.00	25.27	Pass	H	PK
4	7377.2918	36.48	5.85	-40.88	47.39	48.84	74.00	25.16	Pass	H	PK
5	9249.4166	37.65	6.60	-40.77	45.53	49.01	74.00	24.99	Pass	H	PK
6	9848.0000	37.74	6.83	-40.54	43.75	47.78	74.00	26.22	Pass	H	PK
7	1883.4883	30.93	3.41	-42.67	57.42	49.09	74.00	24.91	Pass	V	PK
8	2189.5190	31.97	3.65	-42.53	57.31	50.40	74.00	23.60	Pass	V	PK
9	3082.0055	33.23	4.76	-42.07	50.01	45.93	74.00	28.07	Pass	V	PK
10	4924.0000	34.50	4.85	-40.56	51.91	50.70	74.00	23.30	Pass	V	PK
11	7386.0000	36.49	5.85	-40.87	45.21	46.68	74.00	27.32	Pass	V	PK
12	9848.0000	37.74	6.83	-40.54	44.04	48.07	74.00	25.93	Pass	V	PK

Mode:		802.11 n(HT20) (6.5Mbps) Transmitting					Channel:		2412		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1990.8991	31.64	3.46	-42.61	57.47	49.96	74.00	24.04	Pass	H	PK
2	3075.0050	33.23	4.77	-42.07	50.85	46.78	74.00	27.22	Pass	H	PK
3	4824.0000	34.50	4.61	-40.65	49.64	48.10	74.00	25.90	Pass	H	PK
4	7236.0000	36.34	5.79	-40.99	44.86	46.00	74.00	28.00	Pass	H	PK
5	8329.3553	36.53	6.15	-40.71	46.73	48.70	74.00	25.30	Pass	H	PK
6	9648.0000	37.66	6.72	-40.73	45.14	48.79	74.00	25.21	Pass	H	PK
7	1597.4597	29.04	3.07	-42.89	57.98	47.20	74.00	26.80	Pass	V	PK
8	1814.2814	30.47	3.34	-42.70	58.02	49.13	74.00	24.87	Pass	V	PK
9	3198.0132	33.28	4.65	-42.01	52.26	48.18	74.00	25.82	Pass	V	PK
10	4824.0000	34.50	4.61	-40.65	52.71	51.17	74.00	22.83	Pass	V	PK
11	7236.0000	36.34	5.79	-40.99	46.86	48.00	74.00	26.00	Pass	V	PK
12	9648.0000	37.66	6.72	-40.73	46.50	50.15	74.00	23.85	Pass	V	PK

Mode:		802.11 n(HT20) (6.5Mbps) Transmitting					Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1798.2798	30.37	3.32	-42.71	57.22	48.20	74.00	25.80	Pass	H	PK
2	1998.0998	31.69	3.47	-42.62	57.44	49.98	74.00	24.02	Pass	H	PK
3	2992.5993	33.19	4.53	-42.13	50.53	46.12	74.00	27.88	Pass	H	PK
4	4874.0000	34.50	4.78	-40.61	51.19	49.86	74.00	24.14	Pass	H	PK
5	7311.0000	36.41	5.85	-40.93	47.96	49.29	74.00	24.71	Pass	H	PK
6	9748.0000	37.70	6.77	-40.63	45.00	48.84	74.00	25.16	Pass	H	PK
7	1973.4974	31.53	3.44	-42.62	55.34	47.69	74.00	26.31	Pass	V	PK
8	2590.1590	32.54	4.10	-42.34	54.68	48.98	74.00	25.02	Pass	V	PK
9	4874.0000	34.50	4.78	-40.61	52.72	51.39	74.00	22.61	Pass	V	PK
10	7310.2874	36.41	5.85	-40.93	48.72	50.05	74.00	23.95	Pass	V	PK
11	9748.0000	37.70	6.77	-40.63	45.76	49.60	74.00	24.40	Pass	V	PK
12	11006.533	38.60	7.60	-41.11	46.20	51.29	74.00	22.71	Pass	V	PK

Mode:		802.11 n(HT20) (6.5Mbps) Transmitting					Channel:			2462	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1797.6798	30.36	3.32	-42.71	57.55	48.52	74.00	25.48	Pass	H	PK
2	3068.0045	33.23	4.79	-42.08	50.48	46.42	74.00	27.58	Pass	H	PK
3	4924.0000	34.50	4.85	-40.56	50.37	49.16	74.00	24.84	Pass	H	PK
4	7380.2920	36.48	5.85	-40.87	50.07	51.53	74.00	22.47	Pass	H	PK
5	8971.3981	37.64	6.35	-40.67	45.88	49.20	74.00	24.80	Pass	H	PK
6	9848.0000	37.74	6.83	-40.54	43.84	47.87	74.00	26.13	Pass	H	PK
7	1597.8598	29.05	3.07	-42.90	58.94	48.16	74.00	25.84	Pass	V	PK
8	1911.8912	31.12	3.42	-42.66	55.98	47.86	74.00	26.14	Pass	V	PK
9	2893.9894	33.03	4.36	-42.17	51.13	46.35	74.00	27.65	Pass	V	PK
10	4924.0000	34.50	4.85	-40.56	53.95	52.74	74.00	21.26	Pass	V	PK
11	7383.2922	36.48	5.85	-40.86	49.82	51.29	74.00	22.71	Pass	V	PK
12	9848.0000	37.74	6.83	-40.54	43.79	47.82	74.00	26.18	Pass	V	PK

Mode:		802.11 n(HT40) (13.5Mbps) Transmitting					Channel:			2422	
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1794.8795	30.35	3.31	-42.71	55.94	46.89	74.00	27.11	Pass	H	PK
2	3027.0018	33.21	4.88	-42.11	51.13	47.11	74.00	26.89	Pass	H	PK
3	4844.0000	34.50	4.66	-40.62	50.10	48.64	74.00	25.36	Pass	H	PK
4	7274.2850	36.37	5.81	-40.95	48.44	49.67	74.00	24.33	Pass	H	PK
5	8159.3440	36.46	6.41	-40.86	46.97	48.98	74.00	25.02	Pass	H	PK
6	9688.0000	37.68	6.62	-40.69	45.10	48.71	74.00	25.29	Pass	H	PK
7	1597.8598	29.05	3.07	-42.90	58.07	47.29	74.00	26.71	Pass	V	PK
8	2590.9591	32.55	4.10	-42.35	54.16	48.46	74.00	25.54	Pass	V	PK
9	4844.0000	34.50	4.66	-40.62	52.21	50.75	74.00	23.25	Pass	V	PK
10	7264.2843	36.36	5.80	-40.96	47.52	48.72	74.00	25.28	Pass	V	PK
11	8258.3506	36.50	6.19	-40.77	46.46	48.38	74.00	25.62	Pass	V	PK
12	9688.0000	37.68	6.62	-40.69	46.53	50.14	74.00	23.86	Pass	V	PK

Mode:		802.11 n(HT40) (13.5Mbps) Transmitting					Channel:		2437		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	2291.5292	32.11	3.80	-42.49	52.54	45.96	74.00	28.04	Pass	H	PK
2	2964.1964	33.14	4.44	-42.13	51.86	47.31	74.00	26.69	Pass	H	PK
3	4874.0000	34.50	4.78	-40.61	49.72	48.39	74.00	25.61	Pass	H	PK
4	7327.2885	36.43	5.85	-40.92	47.55	48.91	74.00	25.09	Pass	H	PK
5	8191.3461	36.48	6.37	-40.83	46.54	48.56	74.00	25.44	Pass	H	PK
6	9748.0000	37.70	6.77	-40.63	44.29	48.13	74.00	25.87	Pass	H	PK
7	1598.6599	29.05	3.07	-42.90	59.04	48.26	74.00	25.74	Pass	V	PK
8	2194.1194	31.97	3.65	-42.52	56.79	49.89	74.00	24.11	Pass	V	PK
9	4874.0000	34.50	4.78	-40.61	51.28	49.95	74.00	24.05	Pass	V	PK
10	7312.2875	36.41	5.85	-40.93	47.25	48.58	74.00	25.42	Pass	V	PK
11	8106.3404	36.44	6.19	-40.90	47.58	49.31	74.00	24.69	Pass	V	PK
12	9748.0000	37.70	6.77	-40.63	45.06	48.90	74.00	25.10	Pass	V	PK

Mode:		802.11 n(HT40) (13.5Mbps) Transmitting					Channel:		2452		
NO	Freq. [MHz]	Ant Factor [dB]	Cable loss [dB]	Pream gain [dB]	Reading [dBμV]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Result	Polarity	Remark
1	1997.2997	31.68	3.47	-42.61	56.09	48.63	74.00	25.37	Pass	H	PK
2	3017.0011	33.21	4.90	-42.12	50.06	46.05	74.00	27.95	Pass	H	PK
3	4904.0000	34.50	4.88	-40.58	50.30	49.10	74.00	24.90	Pass	H	PK
4	5502.1668	35.00	5.16	-40.64	46.40	45.92	74.00	28.08	Pass	H	PK
5	7356.0000	36.46	5.85	-40.89	47.72	49.14	74.00	24.86	Pass	H	PK
6	9808.0000	37.72	6.59	-40.57	43.98	47.72	74.00	26.28	Pass	H	PK
7	1289.2289	28.19	2.73	-42.79	62.15	50.28	74.00	23.72	Pass	V	PK
8	1596.2596	29.04	3.07	-42.90	60.02	49.23	74.00	24.77	Pass	V	PK
9	3185.0123	33.27	4.63	-42.01	52.52	48.41	74.00	25.59	Pass	V	PK
10	4904.0000	34.50	4.88	-40.58	52.20	51.00	74.00	23.00	Pass	V	PK
11	7344.2896	36.44	5.85	-40.90	49.06	50.45	74.00	23.55	Pass	V	PK
12	9808.0000	37.72	6.59	-40.57	44.50	48.24	74.00	25.76	Pass	V	PK

Note:

1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate, find the 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),and then Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

3) Scan from 9kHz to 25GHz, the disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.