

TEST REPORT

Product : WIFI+BT Module
Trade mark : GSD
Model/Type reference : WCT0SR2311
Serial Number : N/A
Report Number : EED32L00189803
FCC ID : 2AC23-WCT0S
Date of Issue : Feb. 27, 2020
Test Standards : 47 CFR Part 15Subpart C
Test result : PASS

Prepared for:

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NO.75 Zhongkai Development Area,Huizhou,Guangdong, China

Prepared by:

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Date:

Feb. 27, 2020

Check No.: 3096370616



2 Version

Version No.	Date	Description
00	Feb. 27, 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.

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

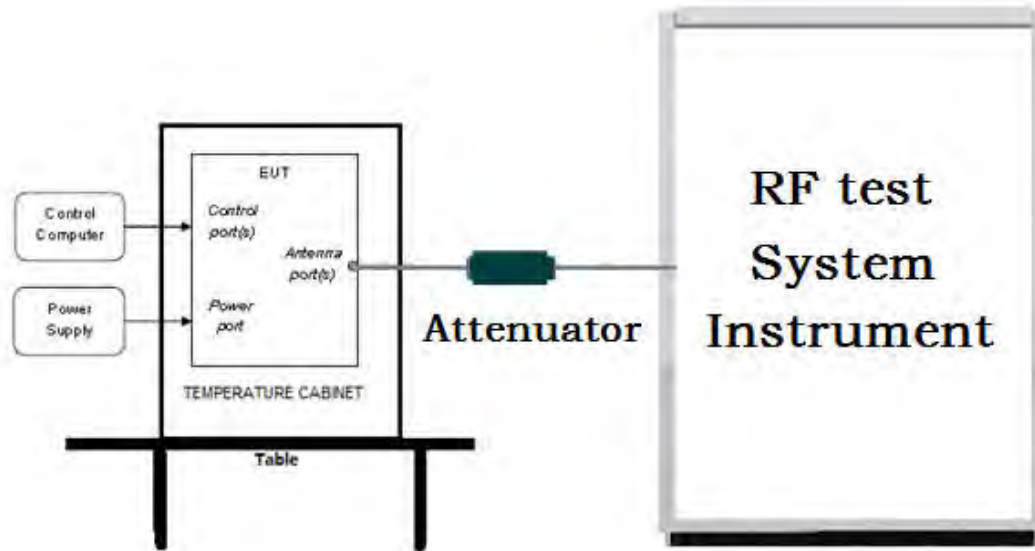
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5 Test Requirement

5.1 Test setup

5.1.1 For Conducted test setup



5.1.2 For Radiated Emissions test setup

Radiated Emissions setup:

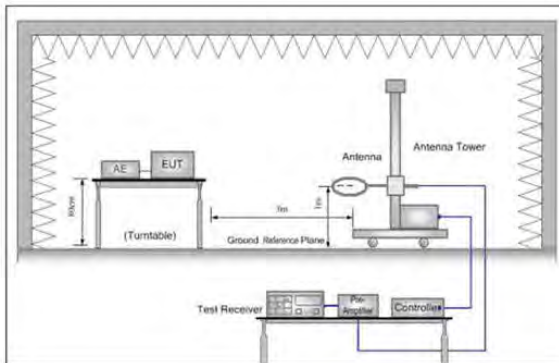


Figure 1. Below 30MHz

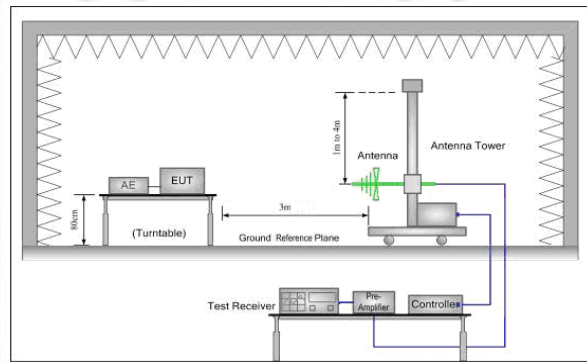


Figure 2. 30MHz to 1GHz

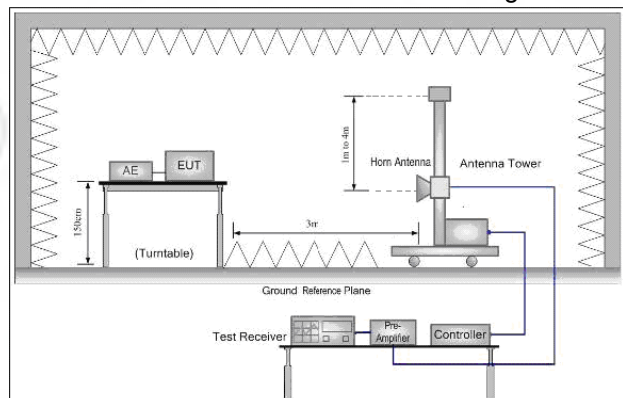
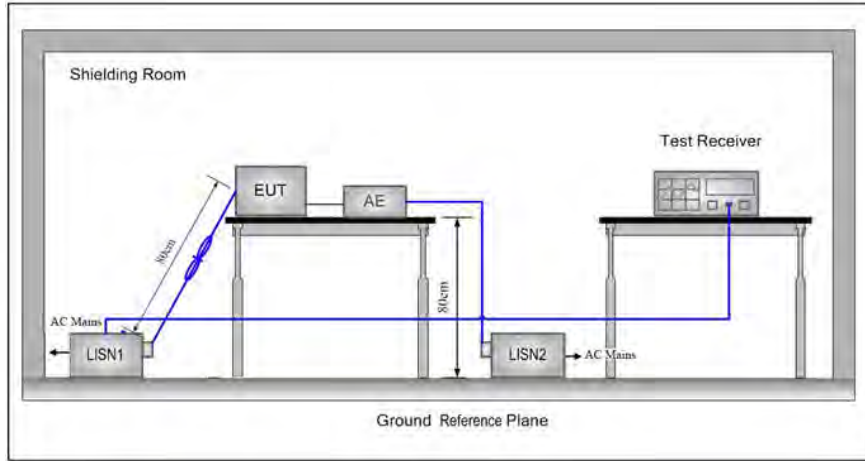


Figure 3. Above 1GHz

5.1.3 For Conducted Emissions test setup
Conducted Emissions setup



5.2 Test Environment

Operating Environment:	
Temperature:	24.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	1010mbar

5.3 Test Condition

Test channel:

Test Mode	Tx/Rx	RF Channel		
		Low(L)	Middle(M)	High(H)
802.11b/g/n(HT20)	2412MHz ~2462 MHz	Channel 1	Channel 6	Channel11
		2412MHz	2437MHz	2462MHz
802.11n(HT40)	2422MHz ~2452 MHz	Channel 1	Channel 4	Channel7
		2422MHz	2437MHz	2452MHz
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.			

Test mode:

Pre-scan under all rate at lowest channel 1

Mode	802.11b				X				
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps					
Power(dBm)	19.22	19.24	19.26	19.28					
Mode	802.11g								
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps	
Power(dBm)	22.84	22.82	22.80	22.78	22.76	22.74	22.72	22.70	
Mode	802.11n (HT20)								
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps	
Power(dBm)	22.14	22.12	22.10	22.08	22.06	22.04	22.02	22.01	
Mode	802.11n (HT40)								
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps	
Power(dBm)	21.81	21.79	21.77	21.75	21.73	21.71	21.69	21.67	

Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).

6 General Information

6.1 Client Information

Applicant:	Hui Zhou Gaoshengda Technology Co.,LTD
Address of Applicant:	NO.75 Zhongkai Development Area,Huizhou,Guangdong, China
Manufacturer:	Hui Zhou Gaoshengda Technology Co.,LTD
Address of Manufacturer:	NO.75 Zhongkai Development Area,Huizhou,Guangdong, China
Factory:	Hui Zhou Gaoshengda Technology Co.,LTD
Address of Factory:	NO.75 Zhongkai Development Area,Huizhou,Guangdong, China

6.2 General Description of EUT

Product Name:	WIFI+BT Module
Model No.(EUT):	WCT0SR2311
Trade Mark:	GSD
EUT Supports Radios application:	IEEE 802.11 b/g/n(HT20)(HT40): 2412MHz to 2462MHz
Power Supply:	DC 5V
Sample Received Date:	Jul. 17, 2019
Sample tested Date:	Jul. 17, 2019 to Sep. 09, 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:	(manufacturer declare)
Test Software of EUT:	Realtek 11ac 8822B USBWLAN MP
Antenna Type and Gain:	Type: PIFA antenna Gain:2.94dBi
Test Voltage:	DC 5V

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency		
3	2422MHz	6	2437MHz	9	2452MHz		
4	2427MHz	7	2442MHz				
5	2432MHz	8	2447MHz				

6.4 Description of Support Units

The EUT has been tested independently

6.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

6.6 Deviation from Standards

None.

6.7 Abnormalities from Standard Conditions

None.

6.8 Other Information Requested by the Customer

None.

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

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

7 Equipment List

RF test system					
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-29-2020
Spectrum Analyzer	Keysight	N9010A	MY54510339	03-01-2019	02-29-2020
Attenuator	HuaXiang	SHX370	15040701	03-01-2019	02-29-2020
Signal Generator	Keysight	N5181A	MY46240094	03-01-2019	02-29-2020
Signal Generator	Keysight	N5182B	MY53051549	03-01-2019	02-29-2020
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	04-27-2020
DC Power	Keysight	E3642A	MY54426035	03-01-2019	02-29-2020
PC-1	Lenovo	R4960d	---	03-01-2019	02-29-2020
BT&WI-FI Automatic control	R&S	OSP120	101374	03-01-2019	02-29-2020
RF control unit	JS Tonscend	JS0806-2	15860006	03-01-2019	02-29-2020
RF control unit	JS Tonscend	JS0806-1	15860004	03-01-2019	02-29-2020
RF control unit	JS Tonscend	JS0806-4	158060007	03-01-2019	02-29-2020
BT&WI-FI Automatic test software	JS Tonscend	JSTS1120-2	---	03-01-2019	02-29-2020
high-low temperature test chamber	DongGuangQinZhuo	LK-80GA	QZ20150611 879	03-01-2019	02-29-2020

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	05-19-2020
Temperature/ Humidity Indicator	Defu	TH128	/	06-14-2019	06-13-2020
Communication test set	Agilent	E5515C	GB47050 534	03-01-2019	02-28-2022
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
LISN	R&S	ENV216	100098	05-08-2019	05-07-2020
LISN	schwarzbeck	NNLK8121	8121-529	05-08-2019	05-07-2020
Voltage Probe	R&S	ESH2-Z3 0299.7810.5 6	100042	06-13-2017	06-12-2020
Current Probe	R&S	EZ-17 816.2063.03	100106	05-20-2019	05-19-2020
ISN	TESEQ	ISN T800	30297	01-16-2019	01-15-2020
Barometer	changchun	DYM3	1188	06-20-2019	06-19-2020

3M Semi/full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	05-24-2019	05-23-2022
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-401	12-21-2018	12-20-2019
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	9163-618	07-26-2019	07-25-2020
Microwave Preamplifier	Agilent	8449B	3008A02425	07-12-2019	07-11-2020
Microwave Preamplifier	Tonscend	EMC051845 SE	980380	01-16-2019	01-15-2020
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1869	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057410	06-05-2018	06-04-2021
Double ridge horn antenna	A.H.SYSTEMS	SAS-574	374	06-05-2018	06-04-2021
Pre-amplifier	A.H.SYSTEMS	PAP-1840-60	6041.6042	07-26-2019	07-25-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
Spectrum Analyzer	R&S	FSP40	100416	04-28-2019	04-27-2020
Receiver	R&S	ESCI	100435	05-20-2019	05-19-2020
Receiver	R&S	ESCI7	100938-003	11-23-2018	11-22-2019
Multi device Controller	maturo	NCD/070/10711112	---	01-09-2019	01-08-2020
Signal Generator	Agilent	E4438C	MY45095744	03-01-2019	02-29-2020
Signal Generator	Keysight	E8257D	MY53401106	03-01-2019	02-29-2020
Temperature/Humidity Indicator	Shanghai qixiang	HM10	1804298	10-12-2018	10-11-2019
Communication test set	Agilent	E5515C	GB47050534	03-01-2019	02-28-2022
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	FL3CX03WG18NM12-0398-002	---	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	FL5CX01CA09CL12-0395-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX01CA08CL12-0393-001	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA04CL12-0396-002	---	01-09-2019	01-08-2020
band rejection filter	Sinoscite	FL5CX02CA03CL12-0394-001	---	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	06-19-2019	06-18-2020
Receiver	Keysight	N9038A	MY57290136	03-27-2019	03-26-2020
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-27-2019	03-26-2020
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-27-2019	03-26-2020
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-075	04-25-2018	04-24-2021
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-25-2018	04-24-2021
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-25-2018	04-24-2021
Horn Antenna	Schwarzbeck	BBHA 9170	9170-829	04-25-2018	04-24-2021
Communication Antenna	Schwarzbeck	CLSA 0110L	1014	02-14-2019	02-13-2020
Biconical antenna	Schwarzbeck	VUBA 9117	9117-381	04-25-2018	04-24-2021
Horn Antenna	ETS-LINDGREN	3117	00057407	07-10-2018	07-09-2021
Preamplifier	EMCI	EMC184055SE	980596	05-22-2019	5-21-2020
Communication test set	R&S	CMW500	102898	01-18-2019	01-17-2020
Preamplifier	EMCI	EMC001330	980563	05-08-2019	05-07-2020
Preamplifier	Agilent	8449B	3008A02425	07-12-2019	07-11-2020
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-30-2019	04-29-2020
Signal Generator	KEYSIGHT	E8257D	MY53401106	03-01-2019	02-29-2020
Fully Anechoic Chamber	TDK	FAC-3	---	01-17-2018	01-16-2021
Filter bank	JS Tonscend	JS0806-F	188060094	04-10-2018	04-09-2021
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2019	01-08-2020
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2019	01-08-2020
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2019	01-08-2020
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2019	01-08-2020

8 Radio Technical Requirements Specification

Reference documents for testing:

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

Test Results List:

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

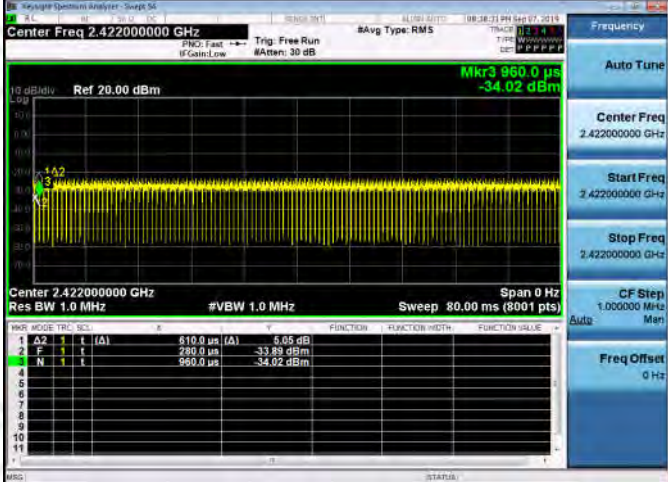


Duty Cycle

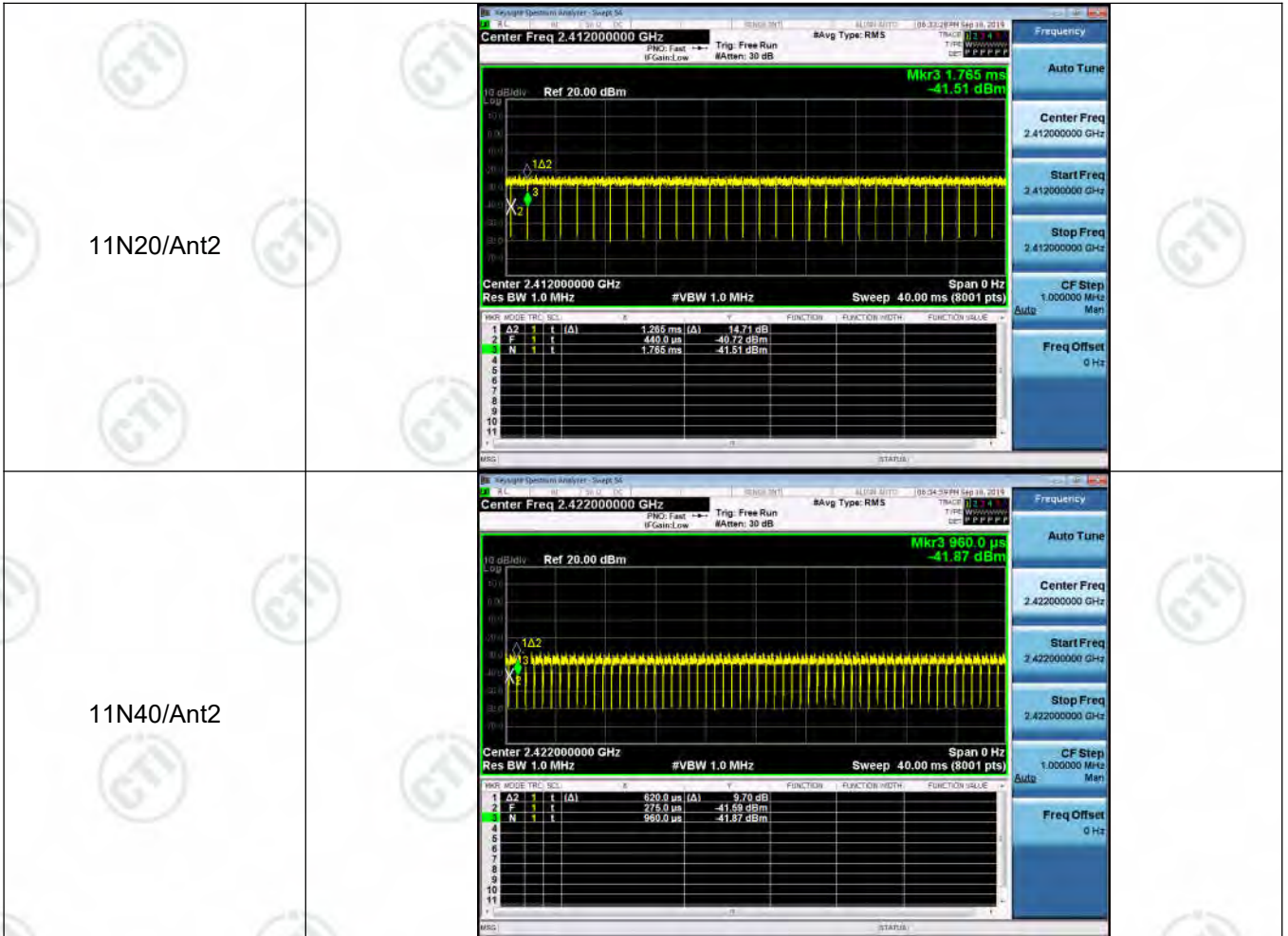
Result Table

Duty Cycle			
Configuration	TX ON(ms)	TX ALL(ms)	Duty Cycle(%)
11b/Ant1	8.180	8.25	99.15%
11g/Ant1	1.355	1.413	95.90%
11N20/Ant1	1.269	1.325	95.77%
11N40/Ant1	0.610	0.680	89.71%
11b/Ant2	8.18	8.25	99.2%
11g/Ant2	1.350	1.41	95.7%
11N20/Ant2	1.265	1.325	95.5%
11N40/Ant2	0.620	0.685	90.5%

Test Graph



<p>11N40/Ant1</p>	 <table border="1" data-bbox="667 622 1236 772"> <thead> <tr> <th>MARK</th> <th>MODE</th> <th>TRIG</th> <th>SCN</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A2</td> <td>1</td> <td>1</td> <td>(A)</td> <td>810.0 us</td> <td>(A)</td> <td></td> <td>6.05 dB</td> </tr> <tr> <td>2</td> <td>F</td> <td>1</td> <td>1</td> <td>(F)</td> <td>280.0 us</td> <td>(F)</td> <td></td> <td>-33.89 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>1</td> <td>(N)</td> <td>950.0 us</td> <td>(N)</td> <td></td> <td>-34.02 dBm</td> </tr> </tbody> </table>	MARK	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	1	(A)	810.0 us	(A)		6.05 dB	2	F	1	1	(F)	280.0 us	(F)		-33.89 dBm	3	N	1	1	(N)	950.0 us	(N)		-34.02 dBm
MARK	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																													
1	A2	1	1	(A)	810.0 us	(A)		6.05 dB																													
2	F	1	1	(F)	280.0 us	(F)		-33.89 dBm																													
3	N	1	1	(N)	950.0 us	(N)		-34.02 dBm																													
<p>11b/Ant2</p>	 <table border="1" data-bbox="667 1115 1236 1265"> <thead> <tr> <th>MARK</th> <th>MODE</th> <th>TRIG</th> <th>SCN</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>A2</td> <td>1</td> <td>1</td> <td>(A)</td> <td>8.180 ms</td> <td>(A)</td> <td></td> <td>6.01 dB</td> </tr> <tr> <td>2</td> <td>F</td> <td>1</td> <td>1</td> <td>(F)</td> <td>2.240 ms</td> <td>(F)</td> <td></td> <td>-19.95 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>1</td> <td>(N)</td> <td>10.49 ms</td> <td>(N)</td> <td></td> <td>-19.29 dBm</td> </tr> </tbody> </table>	MARK	MODE	TRIG	SCN	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	A2	1	1	(A)	8.180 ms	(A)		6.01 dB	2	F	1	1	(F)	2.240 ms	(F)		-19.95 dBm	3	N	1	1	(N)	10.49 ms	(N)		-19.29 dBm
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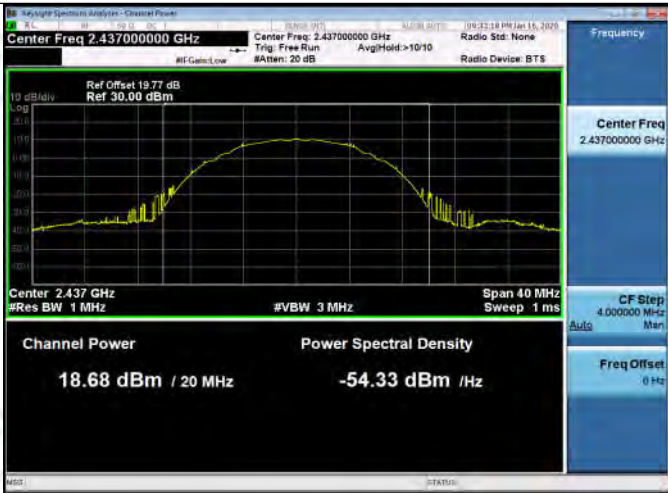
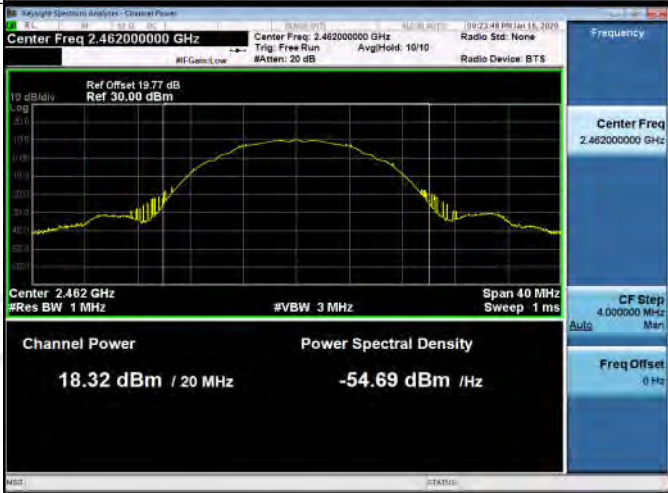
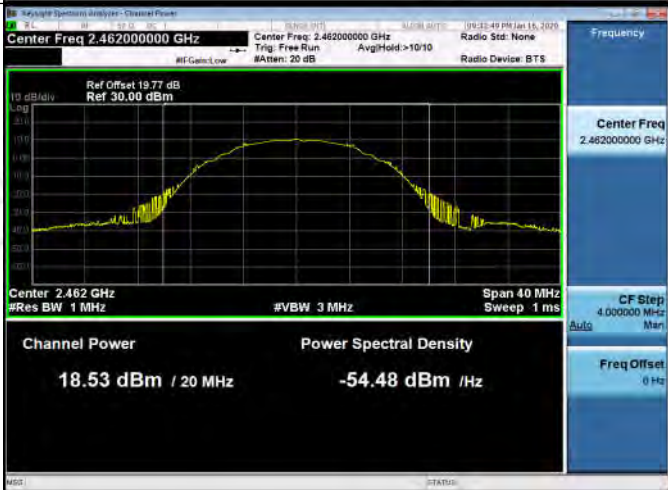
Appendix A): Conducted Peak Output Power Result Table

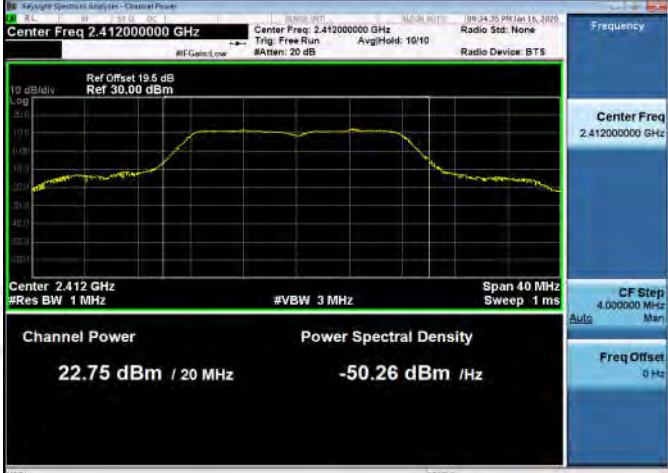
Mode	Antenna	Channel	Conducted Peak Output Power [dBm]	Verdict
11B	Ant1	LCH	19.28	PASS
11B	Ant2	LCH	18.63	PASS
11B	Ant1	MCH	18.53	PASS
11B	Ant2	MCH	18.68	PASS
11B	Ant1	HCH	18.32	PASS
11B	Ant2	HCH	18.53	PASS
11G	Ant1	LCH	22.84	PASS
11G	Ant2	LCH	22.75	PASS
11G	Ant1	MCH	23.01	PASS
11G	Ant2	MCH	22.87	PASS
11G	Ant1	HCH	22.8	PASS
11G	Ant2	HCH	22.72	PASS
11N20SISO	Ant1	LCH	22.14	PASS
11N20SISO	Ant2	LCH	22.02	PASS
11N20SISO	Ant1	MCH	21.46	PASS
11N20SISO	Ant2	MCH	22.1	PASS
11N20SISO	Ant1	HCH	21.93	PASS
11N20SISO	Ant2	HCH	22	PASS
11N20MIMO	Ant1	LCH	19.91	PASS
11N20MIMO	Ant2	LCH	18.73	PASS
11N20MIMO	Ant1+2	LCH	22.37	PASS
11N20MIMO	Ant1	MCH	19.35	PASS
11N20MIMO	Ant2	MCH	18.07	PASS
11N20MIMO	Ant1+2	MCH	21.77	PASS
11N20MIMO	Ant1	HCH	18.77	PASS
11N20MIMO	Ant2	HCH	17.68	PASS
11N20MIMO	Ant1+2	HCH	21.27	PASS
11N40SISO	Ant1	LCH	21.81	PASS
11N40SISO	Ant2	LCH	21.78	PASS
11N40SISO	Ant1	MCH	21.63	PASS
11N40SISO	Ant2	MCH	21.65	PASS
11N40SISO	Ant1	HCH	21.44	PASS

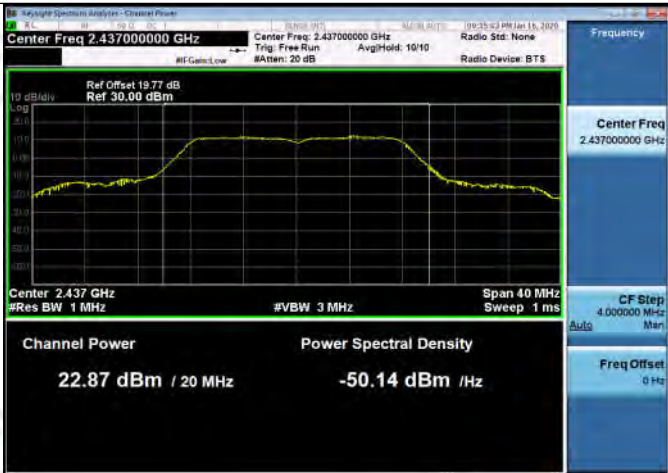
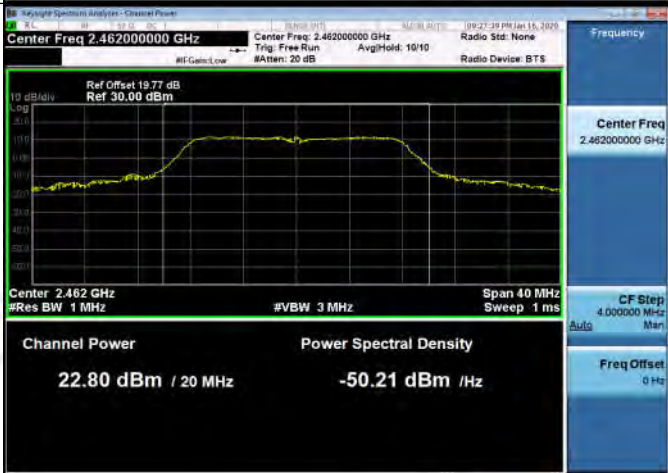
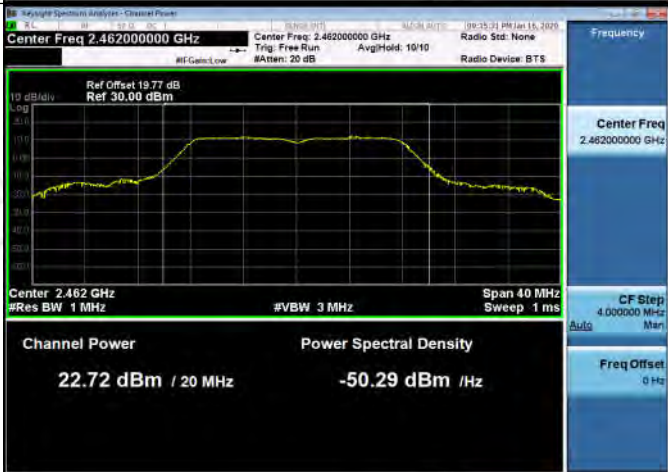
11N40SISO	Ant2	HCH	21.69	PASS
11N40MIMO	Ant1	LCH	19.1	PASS
11N40MIMO	Ant2	LCH	17.82	PASS
11N40MIMO	Ant1+2	LCH	21.52	PASS
11N40MIMO	Ant1	MCH	18.78	PASS
11N40MIMO	Ant2	MCH	17.57	PASS
11N40MIMO	Ant1+2	MCH	21.23	PASS
11N40MIMO	Ant1	HCH	18.51	PASS
11N40MIMO	Ant2	HCH	17.4	PASS
11N40MIMO	Ant1+2	HCH	21.00	PASS

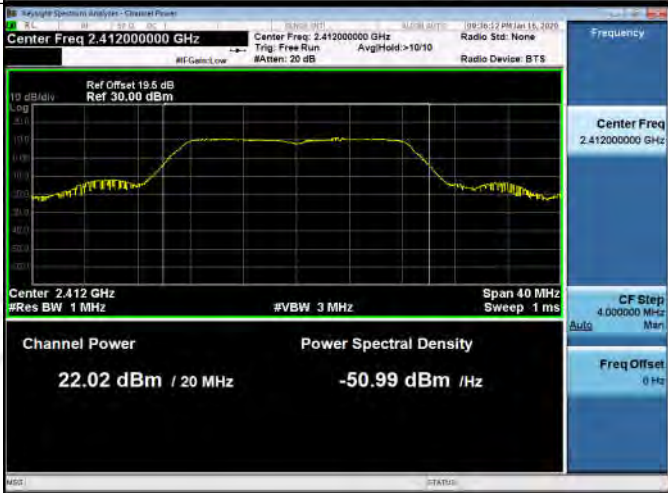
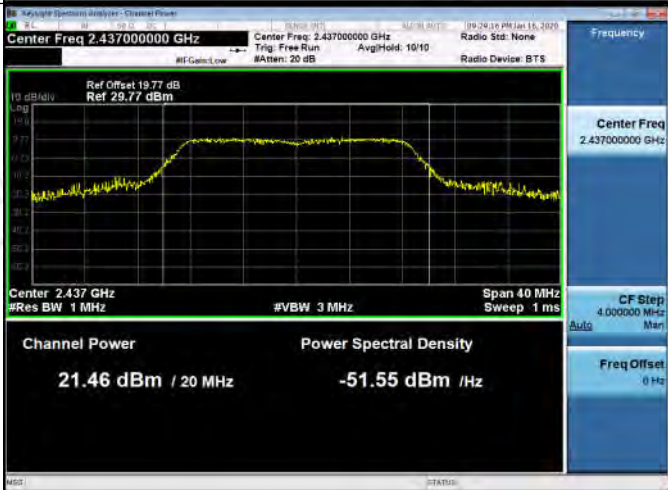
Test Graph



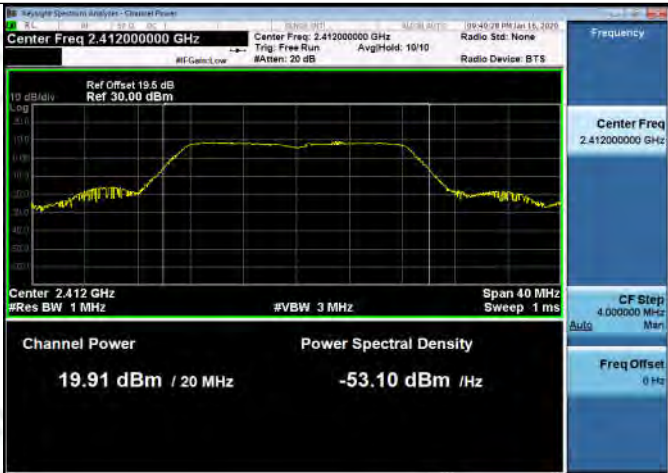


<p>11B/MCH_Ant2</p>	 <p>Key parameters for 11B/MCH_Ant2:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 18.68 dBm / 20 MHz Power Spectral Density: -54.33 dBm / Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 40 MHz #Res BW: 1 MHz #VBW: 3 MHz Sweep: 1 ms
<p>11B/HCH_Ant1</p>	 <p>Key parameters for 11B/HCH_Ant1:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 18.32 dBm / 20 MHz Power Spectral Density: -54.69 dBm / Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 40 MHz #Res BW: 1 MHz #VBW: 3 MHz Sweep: 1 ms
<p>11B/HCH_Ant2</p>	 <p>Key parameters for 11B/HCH_Ant2:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 18.53 dBm / 20 MHz Power Spectral Density: -54.48 dBm / Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 40 MHz #Res BW: 1 MHz #VBW: 3 MHz Sweep: 1 ms

<p>11G/LCH_Ant1</p>	 <p>Key parameters for 11G/LCH_Ant1:</p> <ul style="list-style-type: none"> Center Freq: 2.41200000 GHz Channel Power: 22.84 dBm / 20 MHz Power Spectral Density: -50.17 dBm / Hz Span: 40 MHz Res BW: 1 MHz #VBW: 3 MHz Sweep: 1 ms
<p>11G/LCH_Ant2</p>	 <p>Key parameters for 11G/LCH_Ant2:</p> <ul style="list-style-type: none"> Center Freq: 2.41200000 GHz Channel Power: 22.75 dBm / 20 MHz Power Spectral Density: -50.26 dBm / Hz Span: 40 MHz Res BW: 1 MHz #VBW: 3 MHz Sweep: 1 ms
<p>11G/MCH_Ant1</p>	 <p>Key parameters for 11G/MCH_Ant1:</p> <ul style="list-style-type: none"> Center Freq: 2.43700000 GHz Channel Power: 23.01 dBm / 20 MHz Power Spectral Density: -50.00 dBm / Hz Span: 40 MHz Res BW: 1 MHz #VBW: 3 MHz Sweep: 1 ms

<p>11G/MCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 22.87 dBm / 20 MHz Power Spectral Density: -50.14 dBm /Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 40 MHz Res BW: 1 MHz VBW: 3 MHz Sweep: 1 ms
<p>11G/HCH_Ant1</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 22.80 dBm / 20 MHz Power Spectral Density: -50.21 dBm /Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 40 MHz Res BW: 1 MHz VBW: 3 MHz Sweep: 1 ms
<p>11G/HCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 22.72 dBm / 20 MHz Power Spectral Density: -50.29 dBm /Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 40 MHz Res BW: 1 MHz VBW: 3 MHz Sweep: 1 ms

<p>11N20SISO/LCH_Ant1</p>	 <p>Key parameters from the screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.412000000 GHz Channel Power: 22.14 dBm / 20 MHz Power Spectral Density: -50.87 dBm /Hz Ref Offset: 19.5 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz
<p>11N20SISO/LCH_Ant2</p>	 <p>Key parameters from the screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.412000000 GHz Channel Power: 22.02 dBm / 20 MHz Power Spectral Density: -50.99 dBm /Hz Ref Offset: 19.5 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz
<p>11N20SISO/MCH_Ant1</p>	 <p>Key parameters from the screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 21.46 dBm / 20 MHz Power Spectral Density: -51.55 dBm /Hz Ref Offset: 19.77 dB, Ref: 29.77 dBm Span: 40 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz




<p>11N20SISO/MCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 22.10 dBm / 20 MHz Power Spectral Density: -50.91 dBm / Hz Ref Offset: 19.77 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms
<p>11N20SISO/HCH_Ant1</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 21.93 dBm / 20 MHz Power Spectral Density: -51.08 dBm / Hz Ref Offset: 19.77 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms
<p>11N20SISO/HCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 22.00 dBm / 20 MHz Power Spectral Density: -51.02 dBm / Hz Ref Offset: 19.77 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms

<p>11N20MIMO/LCH_Ant1</p>	 <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 19.91 dBm / 20 MHz</p> <p>Power Spectral Density: -53.10 dBm / Hz</p>
<p>11N20MIMO/LCH_Ant2</p>	 <p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 18.73 dBm / 20 MHz</p> <p>Power Spectral Density: -54.28 dBm / Hz</p>
<p>11N20MIMO/MCH_Ant1</p>	 <p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 40 MHz Sweep 1 ms</p> <p>Channel Power: 19.35 dBm / 20 MHz</p> <p>Power Spectral Density: -53.66 dBm / Hz</p>

<p>11N20MIMO/MCH_Ant2</p>	 <p>Key Parameters:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 18.07 dBm / 20 MHz Power Spectral Density: -54.94 dBm /Hz Ref Offset: 19.77 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz
<p>11N20MIMO/HCH_Ant1</p>	 <p>Key Parameters:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 18.77 dBm / 20 MHz Power Spectral Density: -54.24 dBm /Hz Ref Offset: 19.77 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz
<p>11N20MIMO/HCH_Ant2</p>	 <p>Key Parameters:</p> <ul style="list-style-type: none"> Center Freq: 2.462000000 GHz Channel Power: 17.68 dBm / 20 MHz Power Spectral Density: -55.33 dBm /Hz Ref Offset: 19.77 dB, Ref: 30.00 dBm Span: 40 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz

<p>11N40SISO/LCH_Ant1</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <table border="1"> <thead> <tr> <th>Channel Power</th> <th>Power Spectral Density</th> </tr> </thead> <tbody> <tr> <td>21.81 dBm / 40 MHz</td> <td>-54.21 dBm / Hz</td> </tr> </tbody> </table>	Channel Power	Power Spectral Density	21.81 dBm / 40 MHz	-54.21 dBm / Hz
Channel Power	Power Spectral Density				
21.81 dBm / 40 MHz	-54.21 dBm / Hz				
<p>11N40SISO/LCH_Ant2</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <table border="1"> <thead> <tr> <th>Channel Power</th> <th>Power Spectral Density</th> </tr> </thead> <tbody> <tr> <td>21.78 dBm / 40 MHz</td> <td>-54.24 dBm / Hz</td> </tr> </tbody> </table>	Channel Power	Power Spectral Density	21.78 dBm / 40 MHz	-54.24 dBm / Hz
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<p>11N40SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <table border="1"> <thead> <tr> <th>Channel Power</th> <th>Power Spectral Density</th> </tr> </thead> <tbody> <tr> <td>21.63 dBm / 40 MHz</td> <td>-54.39 dBm / Hz</td> </tr> </tbody> </table>	Channel Power	Power Spectral Density	21.63 dBm / 40 MHz	-54.39 dBm / Hz
Channel Power	Power Spectral Density				
21.63 dBm / 40 MHz	-54.39 dBm / Hz				

<p>11N40SISO/MCH_Ant2</p>	 <p>Key parameters for 11N40SISO/MCH_Ant2:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 21.65 dBm / 40 MHz Power Spectral Density: -54.37 dBm / Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 80 MHz Res BW: 1 MHz VBW: 3 MHz Sweep: 1 ms
<p>11N40SISO/HCH_Ant1</p>	 <p>Key parameters for 11N40SISO/HCH_Ant1:</p> <ul style="list-style-type: none"> Center Freq: 2.452000000 GHz Channel Power: 21.44 dBm / 40 MHz Power Spectral Density: -54.58 dBm / Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 80 MHz Res BW: 1 MHz VBW: 3 MHz Sweep: 1 ms
<p>11N40SISO/HCH_Ant2</p>	 <p>Key parameters for 11N40SISO/HCH_Ant2:</p> <ul style="list-style-type: none"> Center Freq: 2.452000000 GHz Channel Power: 21.69 dBm / 40 MHz Power Spectral Density: -54.33 dBm / Hz Ref Offset: 19.77 dB Ref: 30.00 dBm Span: 80 MHz Res BW: 1 MHz VBW: 3 MHz Sweep: 1 ms

<p>11N40MIMO/LCH_Ant1</p>	 <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power Power Spectral Density</p> <p>19.10 dBm / 40 MHz -56.92 dBm / Hz</p>
<p>11N40MIMO/LCH_Ant2</p>	 <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.422 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power Power Spectral Density</p> <p>17.82 dBm / 40 MHz -58.20 dBm / Hz</p>
<p>11N40MIMO/MCH_Ant1</p>	 <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 19.77 dB Ref 20.00 dBm</p> <p>Center 2.437 GHz #Res BW 1 MHz</p> <p>#VBW 3 MHz</p> <p>Span 80 MHz Sweep 1 ms</p> <p>Channel Power Power Spectral Density</p> <p>18.78 dBm / 40 MHz -57.24 dBm / Hz</p>

<p>11N40MIMO/MCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.437000000 GHz Channel Power: 17.57 dBm / 40 MHz Power Spectral Density: -58.45 dBm / Hz Ref Offset: 19.77 dB, Ref: 20.00 dBm Span: 80 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz
<p>11N40MIMO/HCH_Ant1</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.452000000 GHz Channel Power: 18.51 dBm / 40 MHz Power Spectral Density: -57.51 dBm / Hz Ref Offset: 19.77 dB, Ref: 20.00 dBm Span: 80 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz
<p>11N40MIMO/HCH_Ant2</p>	 <p>Key parameters from screenshot:</p> <ul style="list-style-type: none"> Center Freq: 2.452000000 GHz Channel Power: 17.40 dBm / 40 MHz Power Spectral Density: -58.62 dBm / Hz Ref Offset: 19.77 dB, Ref: 20.00 dBm Span: 80 MHz, Sweep: 1 ms #Res BW: 1 MHz, #VBW: 3 MHz

Appendix B): 6dB Occupied Bandwidth

Result Table

Mode	Antenna	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	Ant1	LCH	9.056	13.622	PASS
11B	Ant2	LCH	9.065	13.722	PASS
11B	Ant1	MCH	9.532	13.690	PASS
11B	Ant2	MCH	9.067	13.700	PASS
11B	Ant1	HCH	9.542	13.774	PASS
11B	Ant2	HCH	9.057	13.776	PASS
11G	Ant1	LCH	16.33	16.531	PASS
11G	Ant2	LCH	16.33	16.582	PASS
11G	Ant1	MCH	16.32	16.528	PASS
11G	Ant2	MCH	16.33	16.590	PASS
11G	Ant1	HCH	16.32	16.532	PASS
11G	Ant2	HCH	16.33	16.595	PASS
11N20SISO	Ant1	LCH	17.02	17.614	PASS
11N20SISO	Ant2	LCH	17.35	17.659	PASS
11N20SISO	Ant1	MCH	17.03	17.621	PASS
11N20SISO	Ant2	MCH	17.26	17.667	PASS
11N20SISO	Ant1	HCH	16.84	17.619	PASS
11N20SISO	Ant2	HCH	17.03	17.666	PASS
11N40SISO	Ant1	LCH	36.28	36.525	PASS
11N40SISO	Ant2	LCH	36.03	36.668	PASS
11N40SISO	Ant1	MCH	36.04	36.506	PASS
11N40SISO	Ant2	MCH	36.05	36.614	PASS
11N40SISO	Ant1	HCH	36.05	36.485	PASS
11N40SISO	Ant2	HCH	36.06	36.619	PASS

Test Graph



<p>11B/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth 13.542 MHz</p> <p>Total Power 21.3 dBm</p> <p>Transmit Freq Error 23.352 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.067 MHz x dB -6.00 dB</p>
<p>11B/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth 13.642 MHz</p> <p>Total Power 21.2 dBm</p> <p>Transmit Freq Error 8.603 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.542 MHz x dB -6.00 dB</p>
<p>11B/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Span 40 MHz Sweep 4.267 ms</p> <p>Occupied Bandwidth 13.578 MHz</p> <p>Total Power 21.4 dBm</p> <p>Transmit Freq Error 6.698 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 9.057 MHz x dB -6.00 dB</p>

<p>11G/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 16.411 MHz</p> <p>Total Power 16.0 dBm</p> <p>Transmit Freq Error 1.991 kHz</p> <p>x dB Bandwidth 16.33 MHz</p>
<p>11G/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 16.424 MHz</p> <p>Total Power 15.3 dBm</p> <p>Transmit Freq Error 10.237 kHz</p> <p>x dB Bandwidth 16.33 MHz</p>
<p>11G/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 16.410 MHz</p> <p>Total Power 15.6 dBm</p> <p>Transmit Freq Error 28 Hz</p> <p>x dB Bandwidth 16.32 MHz</p>

<p>11G/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 16.415 MHz</p> <p>Total Power 16.0 dBm</p> <p>Transmit Freq Error 12.999 kHz</p> <p>x dB Bandwidth 16.33 MHz</p>
<p>11G/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 16.397 MHz</p> <p>Total Power 15.9 dBm</p> <p>Transmit Freq Error -1.025 kHz</p> <p>x dB Bandwidth 16.32 MHz</p>
<p>11G/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 16.421 MHz</p> <p>Total Power 15.7 dBm</p> <p>Transmit Freq Error 4.632 kHz</p> <p>x dB Bandwidth 16.33 MHz</p>

<p>11N20SISO/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 17.563 MHz</p> <p>Total Power 15.0 dBm</p> <p>Transmit Freq Error -10.823 kHz</p> <p>x dB Bandwidth 17.02 MHz</p>
<p>11N20SISO/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 17.584 MHz</p> <p>Total Power 15.5 dBm</p> <p>Transmit Freq Error 580 Hz</p> <p>x dB Bandwidth 17.35 MHz</p>
<p>11N20SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 17.566 MHz</p> <p>Total Power 15.2 dBm</p> <p>Transmit Freq Error -7.849 kHz</p> <p>x dB Bandwidth 17.03 MHz</p>

<p>11N20SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 17.590 MHz</p> <p>Total Power 15.0 dBm</p> <p>Transmit Freq Error 2.493 kHz</p> <p>x dB Bandwidth 17.26 MHz</p>
<p>11N20SISO/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 17.557 MHz</p> <p>Total Power 15.4 dBm</p> <p>Transmit Freq Error -2.941 kHz</p> <p>x dB Bandwidth 16.84 MHz</p>
<p>11N20SISO/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 17.590 MHz</p> <p>Total Power 15.3 dBm</p> <p>Transmit Freq Error -1.338 kHz</p> <p>x dB Bandwidth 17.03 MHz</p>

<p>11N40SISO/LCH_Ant1</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 36.195 MHz</p> <p>Total Power 14.2 dBm</p> <p>Transmit Freq Error -948 Hz</p> <p>x dB Bandwidth 36.28 MHz</p>
<p>11N40SISO/LCH_Ant2</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 36.210 MHz</p> <p>Total Power 14.4 dBm</p> <p>Transmit Freq Error 11.898 kHz</p> <p>x dB Bandwidth 36.03 MHz</p>
<p>11N40SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 36.197 MHz</p> <p>Total Power 14.2 dBm</p> <p>Transmit Freq Error 2.412 kHz</p> <p>x dB Bandwidth 36.04 MHz</p>

<p>11N40SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 36.210 MHz</p> <p>Total Power 14.4 dBm</p> <p>Transmit Freq Error 15.793 kHz</p> <p>x dB Bandwidth 36.05 MHz</p>
<p>11N40SISO/HCH_Ant1</p>	<p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 36.186 MHz</p> <p>Total Power 14.2 dBm</p> <p>Transmit Freq Error 5.685 kHz</p> <p>x dB Bandwidth 36.05 MHz</p>
<p>11N40SISO/HCH_Ant2</p>	<p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 100 kHz</p> <p>Occupied Bandwidth 36.209 MHz</p> <p>Total Power 14.2 dBm</p> <p>Transmit Freq Error 15.206 kHz</p> <p>x dB Bandwidth 36.06 MHz</p>

99% OBW Graphs																																																	
11B/LCH_Ant1	<table border="1"> <tr> <td>Center Freq</td> <td>2.412 GHz</td> <td>Center Freq</td> <td>2.412000000 GHz</td> <td>Radio Std:</td> <td>None</td> </tr> <tr> <td>#Res BW</td> <td>200 kHz</td> <td>#VBW</td> <td>300 kHz</td> <td>Trig:</td> <td>Free Run</td> </tr> <tr> <td colspan="2">Occupied Bandwidth</td> <td colspan="2">Total Power</td> <td colspan="2">AvgHold:</td> </tr> <tr> <td colspan="2">13.622 MHz</td> <td colspan="2">18.0 dBm</td> <td colspan="2">10/10</td> </tr> <tr> <td colspan="2">Transmit Freq Error</td> <td colspan="2">OBW Power</td> <td colspan="2">Radio Device:</td> </tr> <tr> <td colspan="2">-9.263 kHz</td> <td colspan="2">99.00 %</td> <td colspan="2">BTS</td> </tr> <tr> <td colspan="2">x dB Bandwidth</td> <td colspan="2">x dB</td> <td colspan="2">Freq Offset</td> </tr> <tr> <td colspan="2">9.171 MHz</td> <td colspan="2">-6.00 dB</td> <td colspan="2">0 Hz</td> </tr> </table>	Center Freq	2.412 GHz	Center Freq	2.412000000 GHz	Radio Std:	None	#Res BW	200 kHz	#VBW	300 kHz	Trig:	Free Run	Occupied Bandwidth		Total Power		AvgHold:		13.622 MHz		18.0 dBm		10/10		Transmit Freq Error		OBW Power		Radio Device:		-9.263 kHz		99.00 %		BTS		x dB Bandwidth		x dB		Freq Offset		9.171 MHz		-6.00 dB		0 Hz	
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<p>11B/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 13.700 MHz Total Power 12.3 dBm</p> <p>Transmit Freq Error 39.672 kHz OBW Power 99.00 % x dB Bandwidth 9.595 MHz x dB -6.00 dB</p>
<p>11B/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 13.774 MHz Total Power 17.9 dBm</p> <p>Transmit Freq Error -15.086 kHz OBW Power 99.00 % x dB Bandwidth 9.183 MHz x dB -6.00 dB</p>
<p>11B/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 13.776 MHz Total Power 12.6 dBm</p> <p>Transmit Freq Error -17.569 kHz OBW Power 99.00 % x dB Bandwidth 9.185 MHz x dB -6.00 dB</p>

<p>11G/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth 16.531 MHz</p> <p>Total Power 16.7 dBm</p> <p>Transmit Freq Error 13.504 kHz</p> <p>x dB Bandwidth 16.41 MHz</p>
<p>11G/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.5 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth 16.582 MHz</p> <p>Total Power 10.9 dBm</p> <p>Transmit Freq Error 32.462 kHz</p> <p>x dB Bandwidth 16.41 MHz</p>
<p>11G/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>Occupied Bandwidth 16.528 MHz</p> <p>Total Power 18.6 dBm</p> <p>Transmit Freq Error 24.437 kHz</p> <p>x dB Bandwidth 16.40 MHz</p>

<p>11G/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 16.590 MHz</p> <p>Total Power 13.4 dBm</p> <p>Transmit Freq Error 30.502 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.40 MHz x dB -6.00 dB</p>
<p>11G/HCH_Ant1</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 16.532 MHz</p> <p>Total Power 17.8 dBm</p> <p>Transmit Freq Error 14.673 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.39 MHz x dB -6.00 dB</p>
<p>11G/HCH_Ant2</p>	<p>Center Freq 2.462000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.462 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 16.595 MHz</p> <p>Total Power 12.7 dBm</p> <p>Transmit Freq Error 19.924 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 16.41 MHz x dB -6.00 dB</p>

<p>11N20SISO/LCH_Ant1</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.614 MHz</p> <p>Total Power 15.5 dBm</p> <p>Transmit Freq Error 2.771 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.54 MHz</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/LCH_Ant2</p>	<p>Center Freq 2.412000000 GHz</p> <p>Ref Offset: 19.6 dB Ref 30.00 dBm</p> <p>Center 2.412 GHz #Res BW 200 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.659 MHz</p> <p>Total Power 9.88 dBm</p> <p>Transmit Freq Error 17.744 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.52 MHz</p> <p>x dB -6.00 dB</p>
<p>11N20SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 17.621 MHz</p> <p>Total Power 17.7 dBm</p> <p>Transmit Freq Error 8.729 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.49 MHz</p> <p>x dB -6.00 dB</p>

<p>11N20SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 200 kHz #VBW 300 kHz Span 40 MHz Sweep 1.067 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>12.4 dBm</td> </tr> <tr> <td colspan="3">17.667 MHz</td> </tr> <tr> <td>Transmit Freq Error</td> <td>21.935 kHz</td> <td>OBW Power 99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>17.55 MHz</td> <td>x dB -6.00 dB</td> </tr> </table>	Occupied Bandwidth	Total Power	12.4 dBm	17.667 MHz			Transmit Freq Error	21.935 kHz	OBW Power 99.00 %	x dB Bandwidth	17.55 MHz	x dB -6.00 dB
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<p>11N40SISO/LCH_Ant1</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 390 kHz #VBW 470 kHz Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.525 MHz</p> <p>Total Power 15.3 dBm</p> <p>Transmit Freq Error 38.358 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.57 MHz x dB -6.00 dB</p>
<p>11N40SISO/LCH_Ant2</p>	<p>Center Freq 2.422000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.422 GHz #Res BW 390 kHz #VBW 470 kHz Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.668 MHz</p> <p>Total Power 9.75 dBm</p> <p>Transmit Freq Error 70.856 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.52 MHz x dB -6.00 dB</p>
<p>11N40SISO/MCH_Ant1</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 390 kHz #VBW 470 kHz Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.506 MHz</p> <p>Total Power 17.1 dBm</p> <p>Transmit Freq Error 37.376 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.47 MHz x dB -6.00 dB</p>

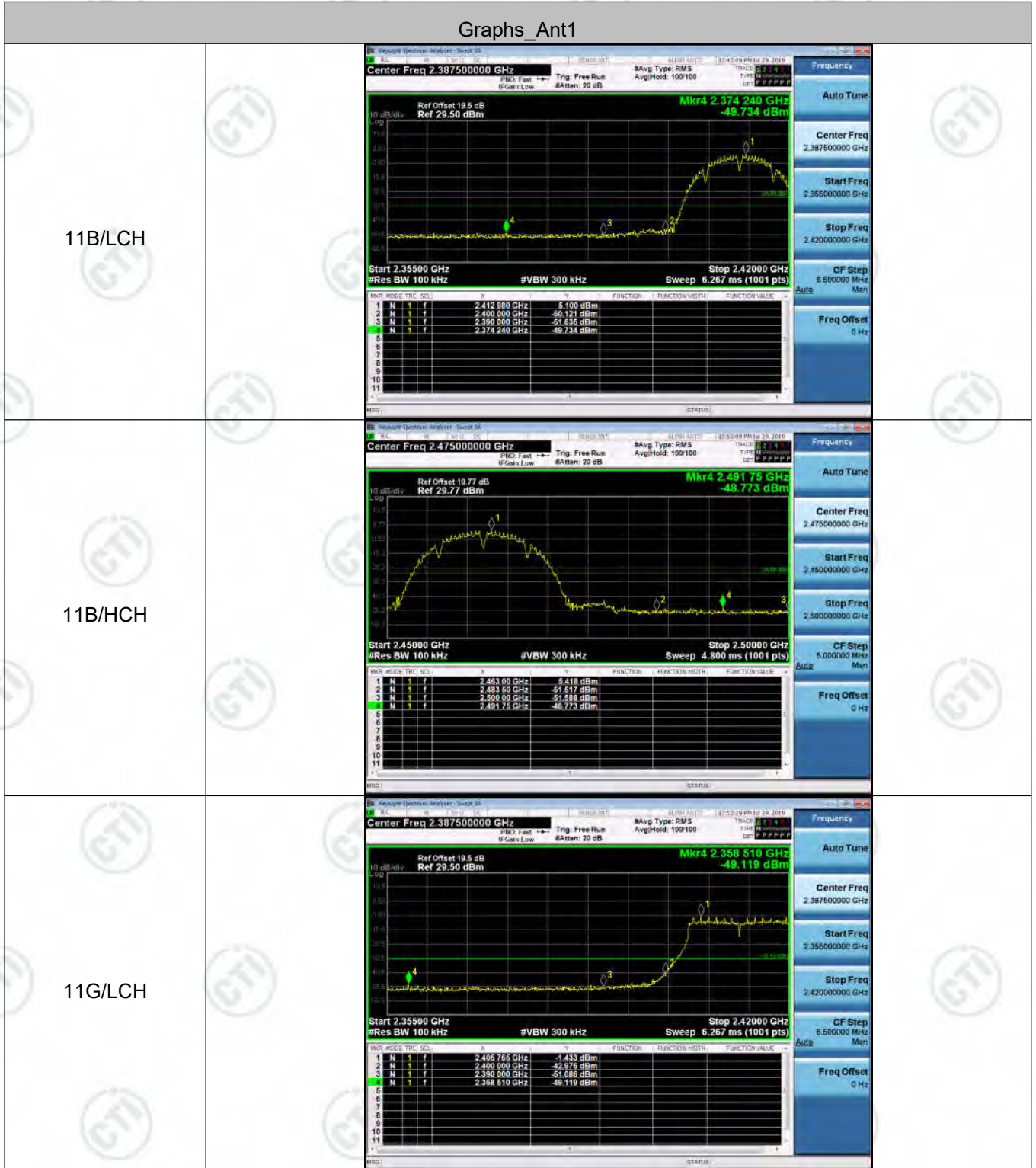
<p>11N40SISO/MCH_Ant2</p>	<p>Center Freq 2.437000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.437 GHz #Res BW 390 kHz #VBW 470 kHz Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.614 MHz</p> <p>Total Power 12.0 dBm</p> <p>Transmit Freq Error 79.994 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.55 MHz x dB -6.00 dB</p>
<p>11N40SISO/HCH_Ant1</p>	<p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 390 kHz #VBW 470 kHz Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.485 MHz</p> <p>Total Power 15.3 dBm</p> <p>Transmit Freq Error 40.633 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.53 MHz x dB -6.00 dB</p>
<p>11N40SISO/HCH_Ant2</p>	<p>Center Freq 2.452000000 GHz</p> <p>Ref Offset: 19.77 dB Ref 30.00 dBm</p> <p>Center 2.452 GHz #Res BW 390 kHz #VBW 470 kHz Span 80 MHz Sweep 1.067 ms</p> <p>Occupied Bandwidth 36.619 MHz</p> <p>Total Power 10.2 dBm</p> <p>Transmit Freq Error 92.470 kHz OBW Power 99.00 %</p> <p>x dB Bandwidth 36.49 MHz x dB -6.00 dB</p>

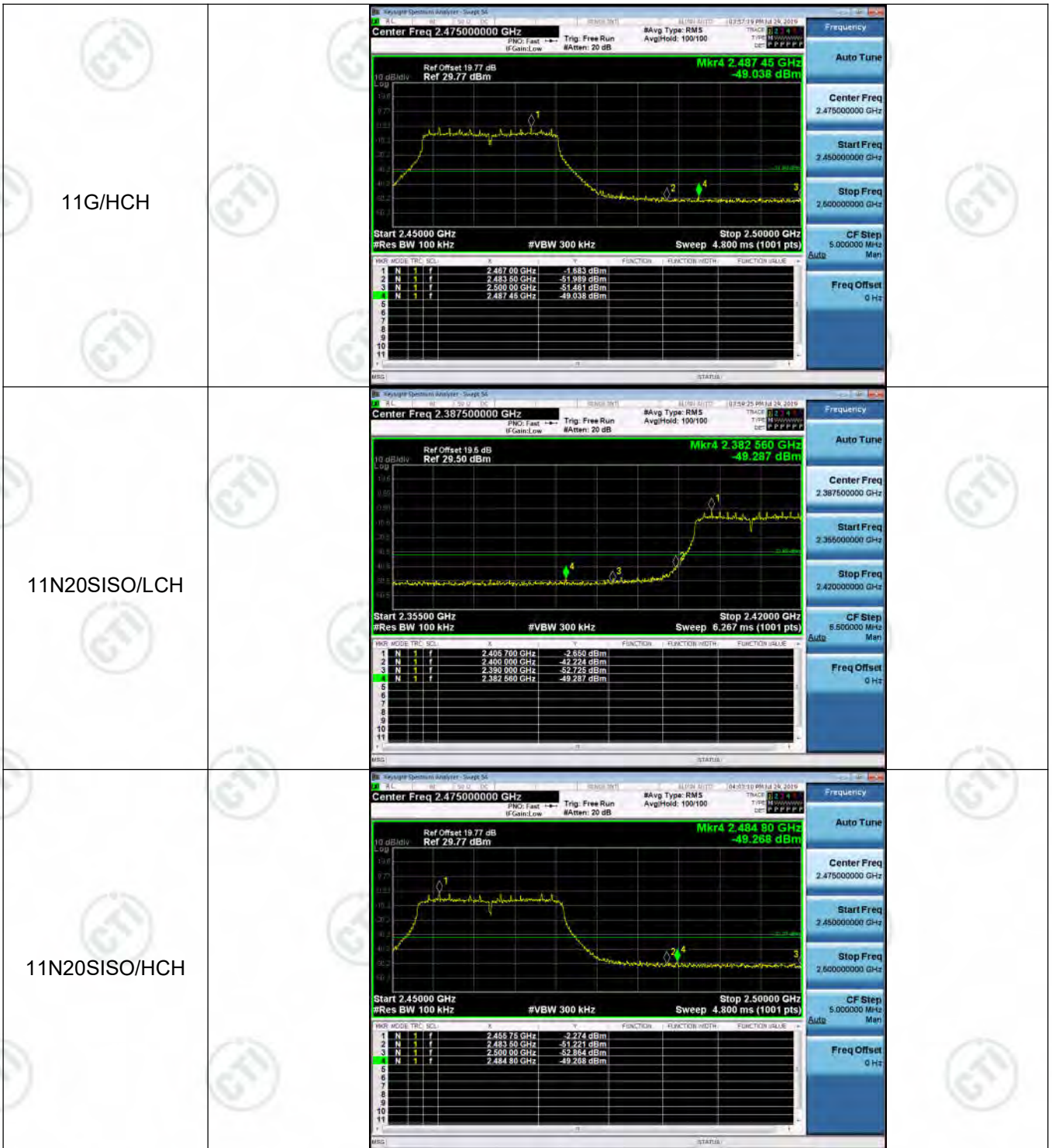
Appendix C): Band-edge for RF Conducted Emissions

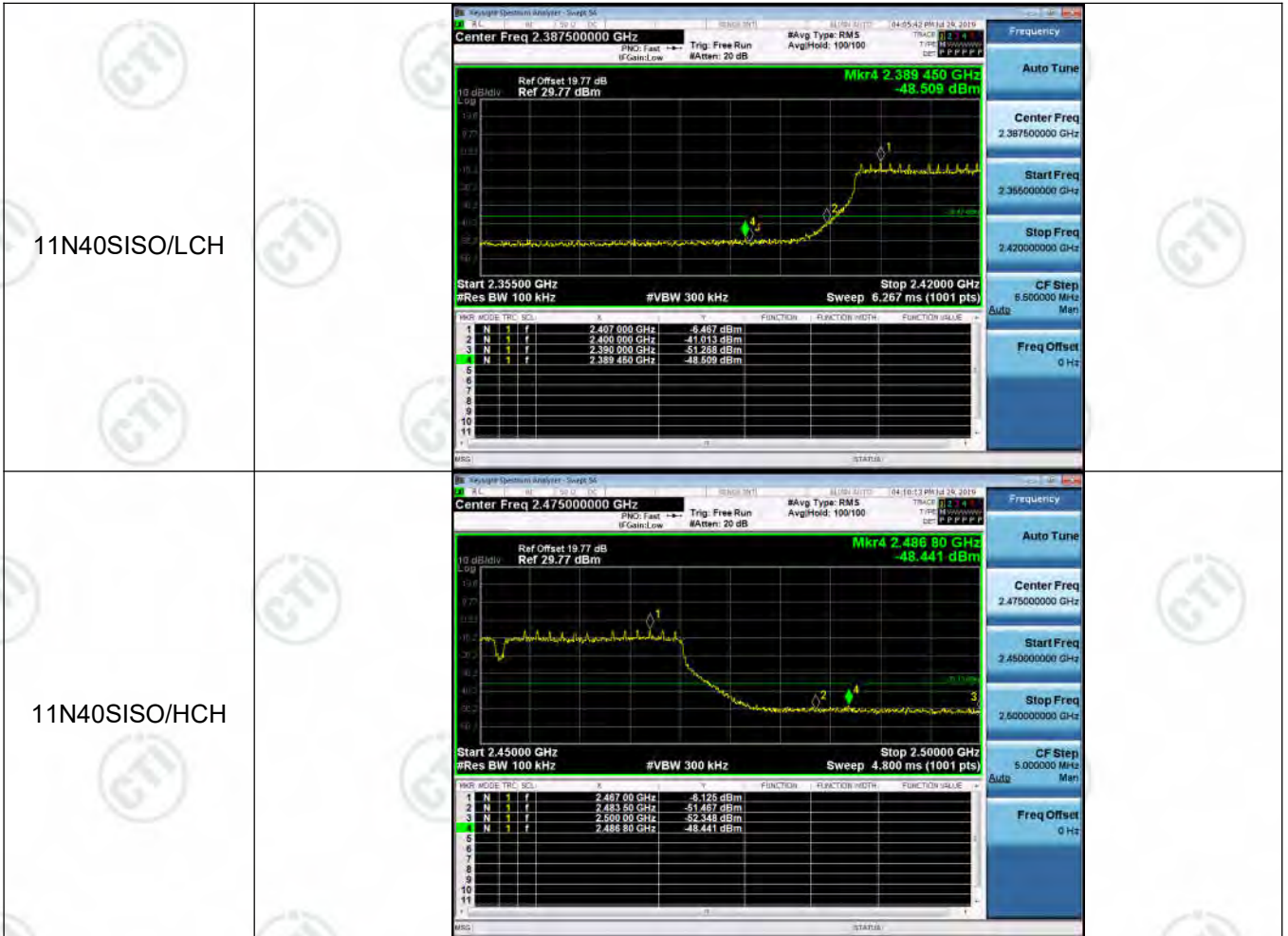
Result Table

Mode	Antenna	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	Ant1	LCH	5.100	-49.734	-24.9	PASS
11B	Ant2	LCH	5.008	-50.195	-24.99	PASS
11B	Ant1	HCH	5.418	-48.773	-24.58	PASS
11B	Ant2	HCH	5.579	-49.091	-24.42	PASS
11G	Ant1	LCH	-1.433	-49.119	-31.43	PASS
11G	Ant2	LCH	-2.187	-49.660	-32.19	PASS
11G	Ant1	HCH	-1.683	-49.038	-31.68	PASS
11G	Ant2	HCH	-1.949	-49.279	-31.95	PASS
11N20SISO	Ant1	LCH	-2.650	-49.287	-32.65	PASS
11N20SISO	Ant2	LCH	-2.145	-49.994	-32.15	PASS
11N20SISO	Ant1	HCH	-2.274	-49.268	-32.27	PASS
11N20SISO	Ant2	HCH	-2.454	-48.368	-32.45	PASS
11N40SISO	Ant1	LCH	-6.467	-48.509	-36.47	PASS
11N40SISO	Ant2	LCH	-6.396	-48.335	-36.4	PASS
11N40SISO	Ant1	HCH	-6.125	-48.441	-36.13	PASS
11N40SISO	Ant2	HCH	-6.169	-47.790	-36.17	PASS

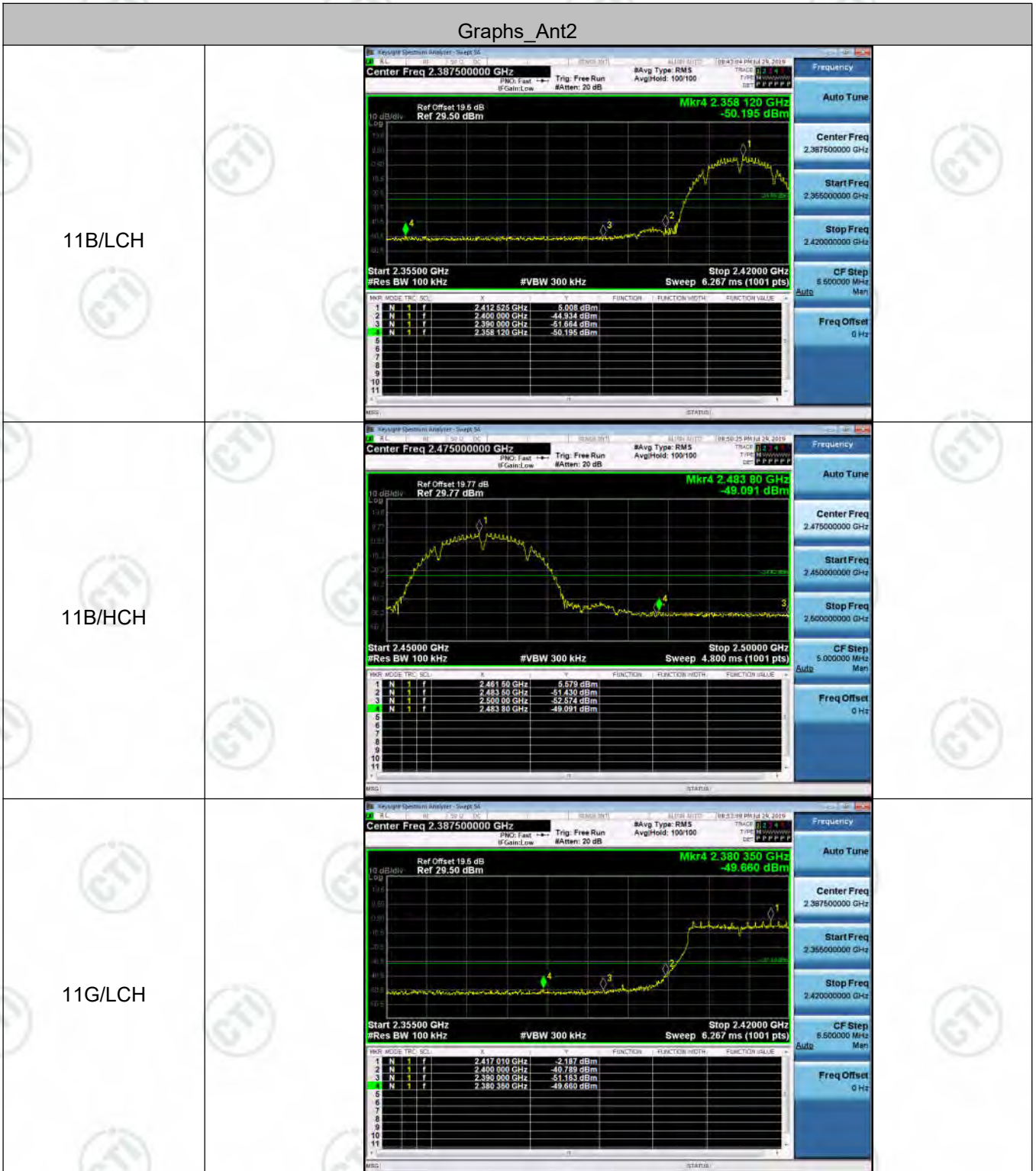
Test Graph







Graphs_Ant2



<p>11G/HCH</p>	<table border="1"> <thead> <tr> <th>MNR</th> <th>MODE</th> <th>TRF</th> <th>SCF</th> <th>F</th> <th>FUNCTION</th> <th>FUNCTION MATH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>1</td> <td>f</td> <td>2.467 00 GHz</td> <td></td> <td></td> <td>-1.949 dBm</td> </tr> <tr> <td>2</td> <td>N</td> <td>1</td> <td>f</td> <td>2.483 50 GHz</td> <td></td> <td></td> <td>-51.948 dBm</td> </tr> <tr> <td>3</td> <td>N</td> <td>1</td> <td>f</td> <td>2.500 00 GHz</td> <td></td> <td></td> <td>-51.582 dBm</td> </tr> <tr> <td>4</td> <td>N</td> <td>1</td> <td>f</td> <td>2.498 80 GHz</td> <td></td> <td></td> <td>-49.279 dBm</td> </tr> </tbody> </table>	MNR	MODE	TRF	SCF	F	FUNCTION	FUNCTION MATH	FUNCTION VALUE	1	N	1	f	2.467 00 GHz			-1.949 dBm	2	N	1	f	2.483 50 GHz			-51.948 dBm	3	N	1	f	2.500 00 GHz			-51.582 dBm	4	N	1	f	2.498 80 GHz			-49.279 dBm
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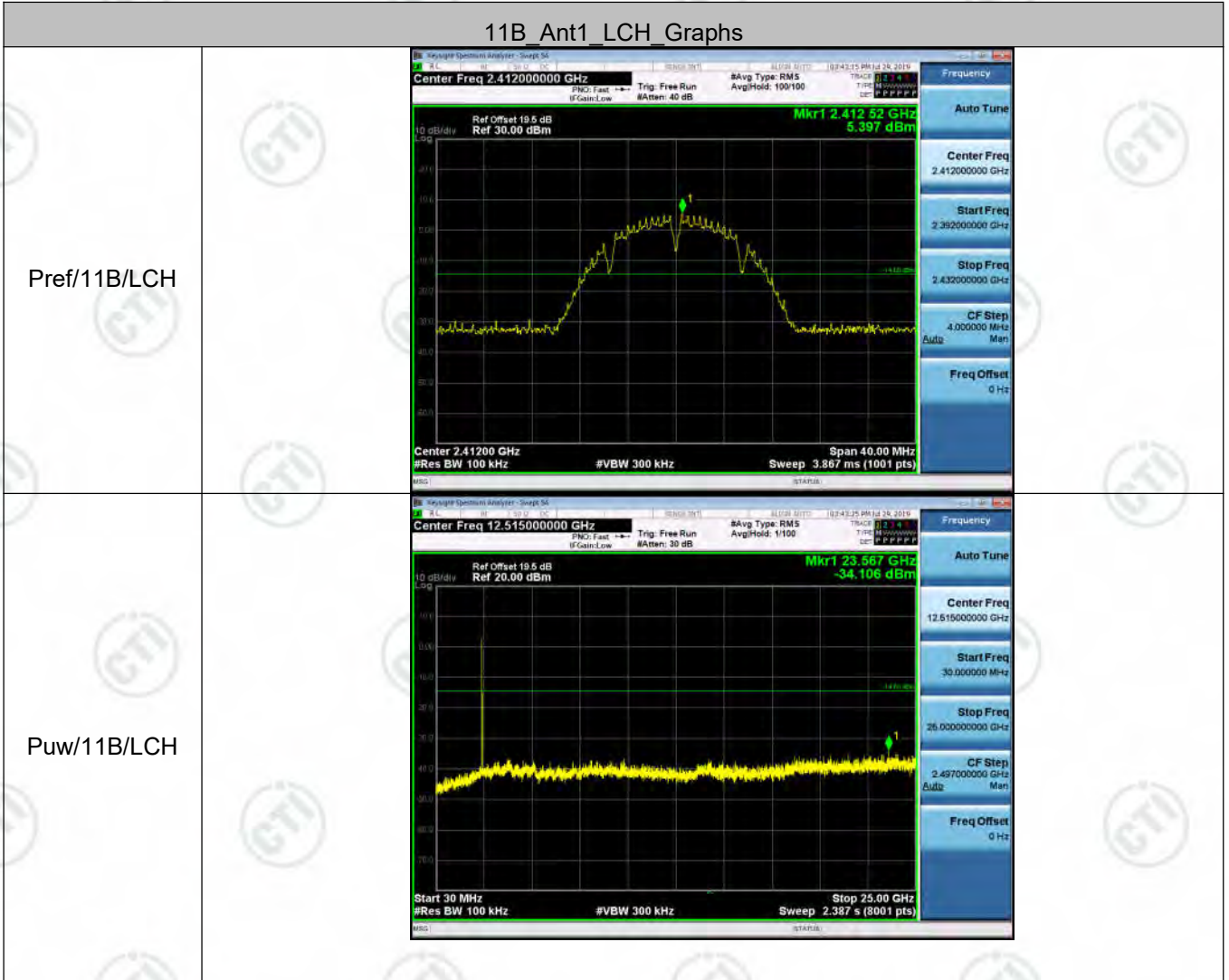


Appendix D): RF Conducted Spurious Emissions

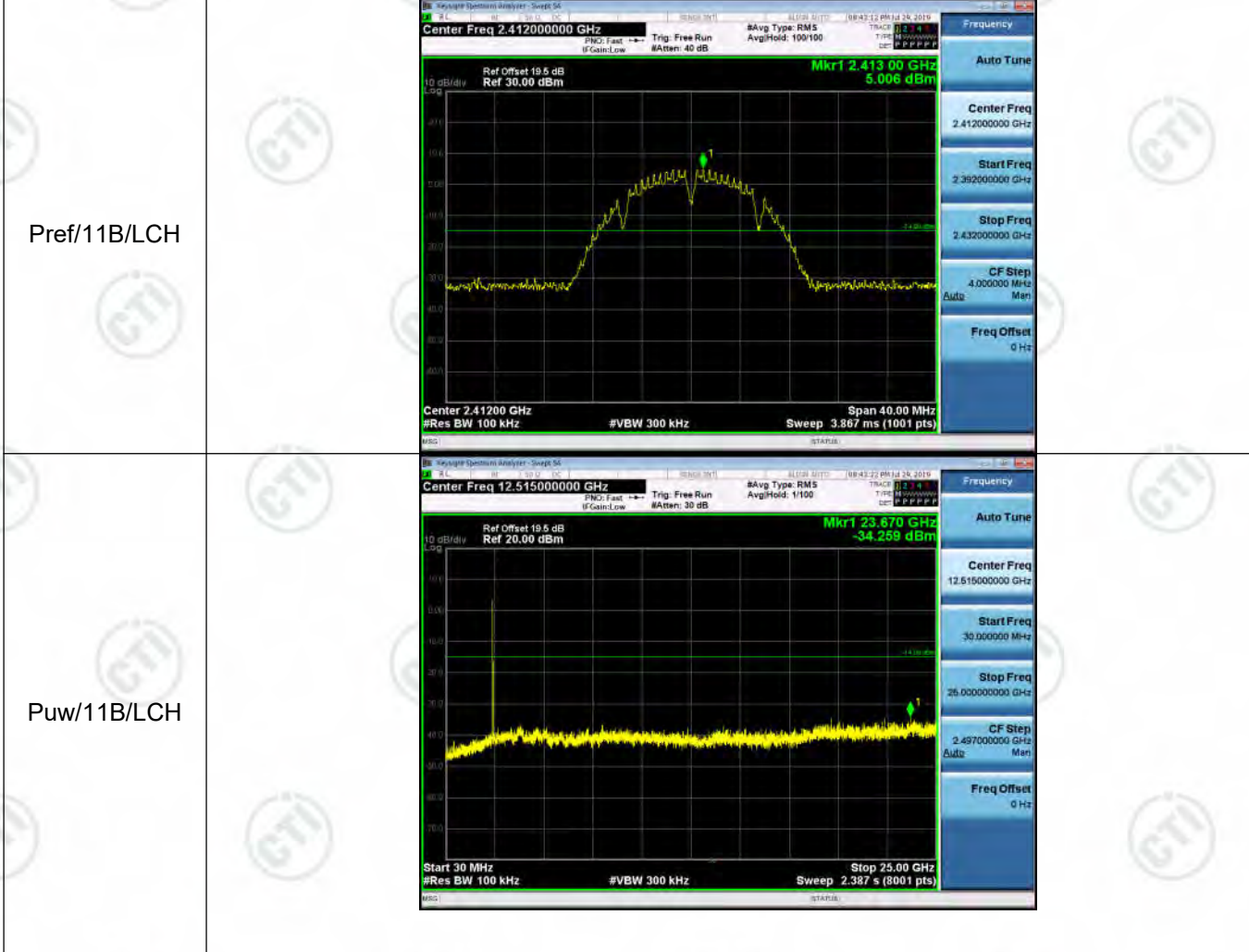
Result Table

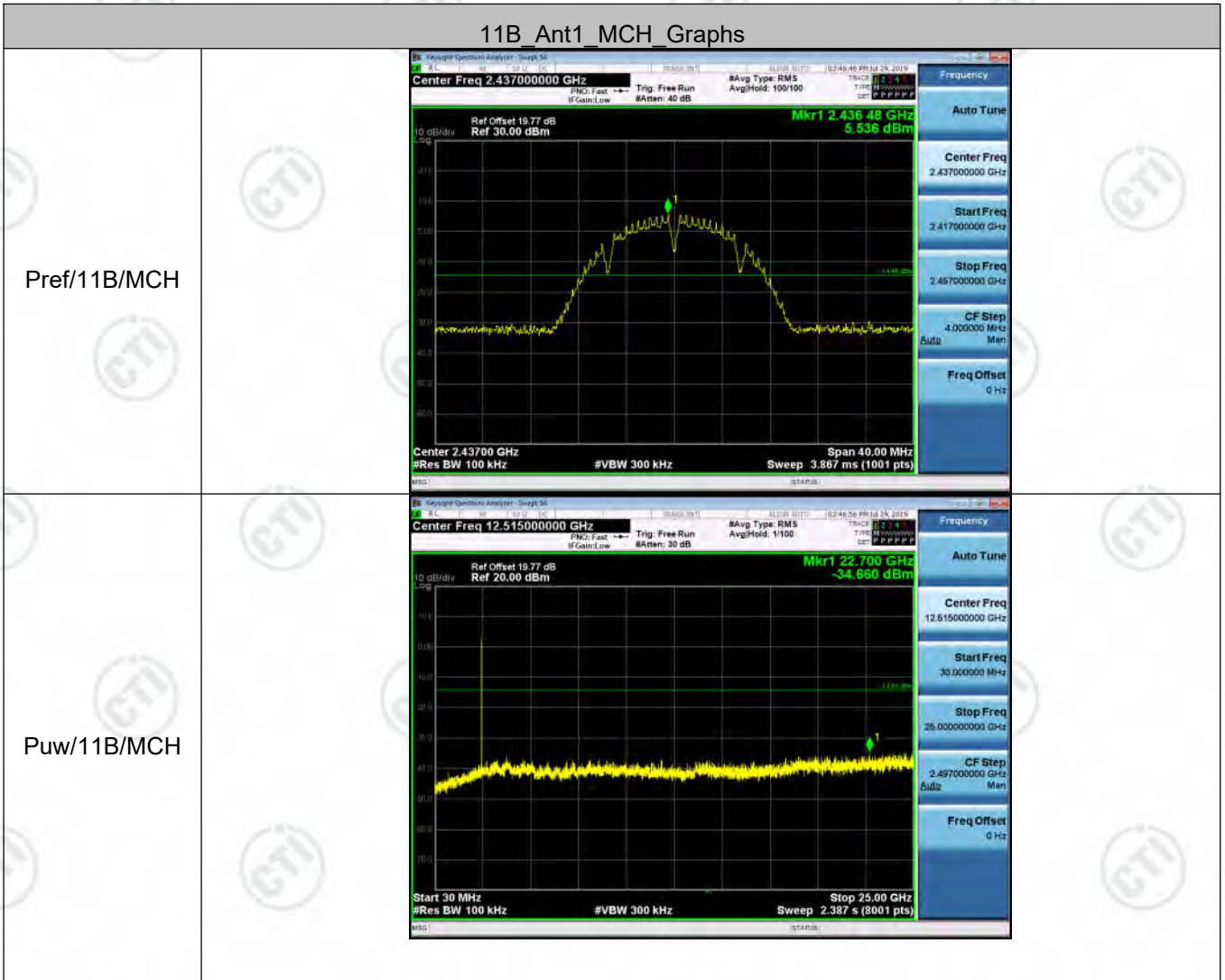
Mode	Antenna	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	Ant1	LCH	5.397	<Limit	PASS
11B	Ant2	LCH	5.006	<Limit	PASS
11B	Ant1	MCH	5.536	<Limit	PASS
11B	Ant2	MCH	5.847	<Limit	PASS
11B	Ant1	HCH	5.648	<Limit	PASS
11B	Ant2	HCH	5.814	<Limit	PASS
11G	Ant1	LCH	-1.557	<Limit	PASS
11G	Ant2	LCH	-2.11	<Limit	PASS
11G	Ant1	MCH	-1.941	<Limit	PASS
11G	Ant2	MCH	-1.634	<Limit	PASS
11G	Ant1	HCH	-1.975	<Limit	PASS
11G	Ant2	HCH	-2.074	<Limit	PASS
11N20SISO	Ant1	LCH	-2.565	<Limit	PASS
11N20SISO	Ant2	LCH	-2.113	<Limit	PASS
11N20SISO	Ant1	MCH	-2.407	<Limit	PASS
11N20SISO	Ant2	MCH	-2.576	<Limit	PASS
11N20SISO	Ant1	HCH	-2.093	<Limit	PASS
11N20SISO	Ant2	HCH	-2.221	<Limit	PASS
11N40SISO	Ant1	LCH	-6.344	<Limit	PASS
11N40SISO	Ant2	LCH	-6.07	<Limit	PASS
11N40SISO	Ant1	MCH	-6.21	<Limit	PASS
11N40SISO	Ant2	MCH	-5.992	<Limit	PASS
11N40SISO	Ant1	HCH	-6.207	<Limit	PASS
11N40SISO	Ant2	HCH	-6.261	<Limit	PASS

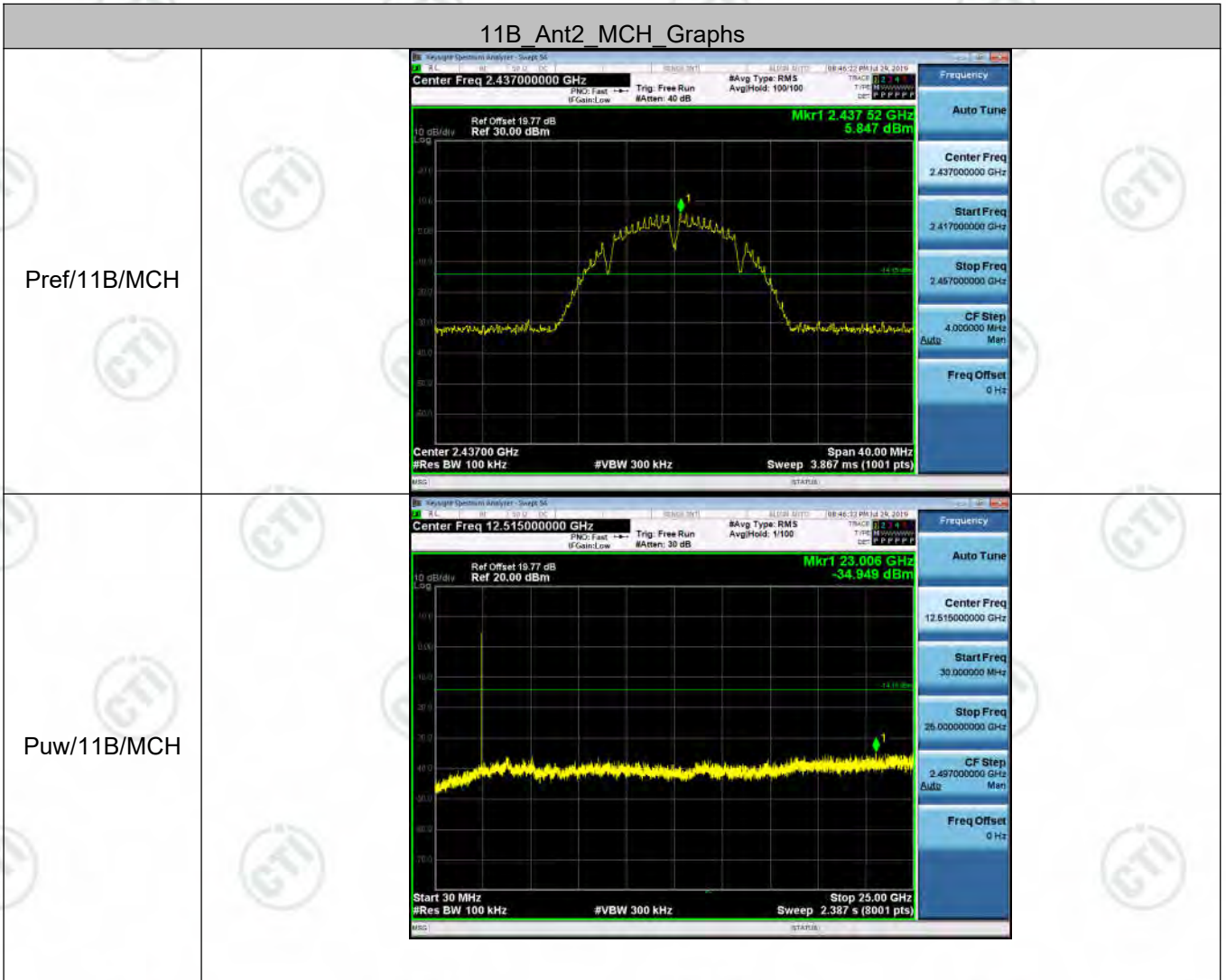
Test Graph

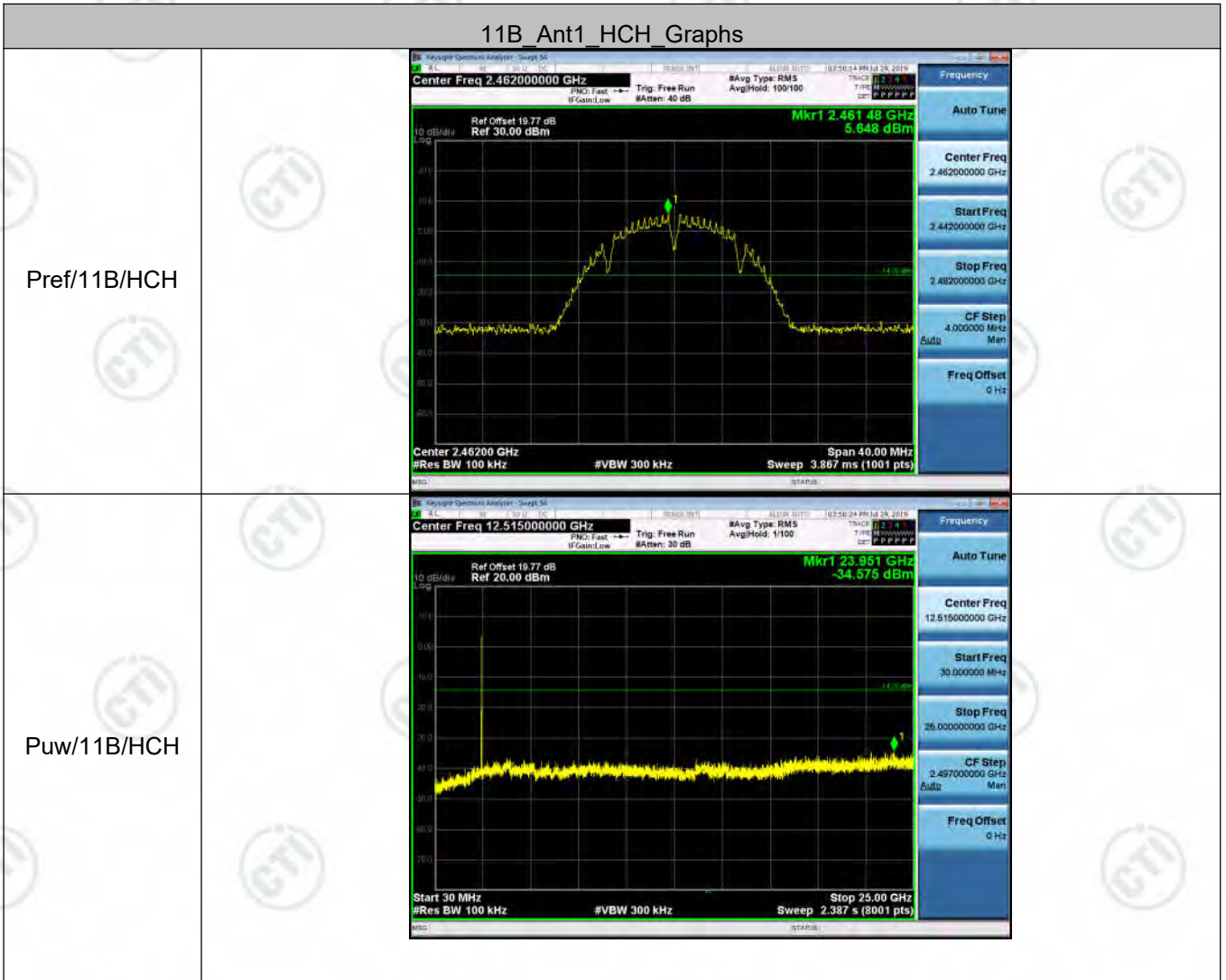


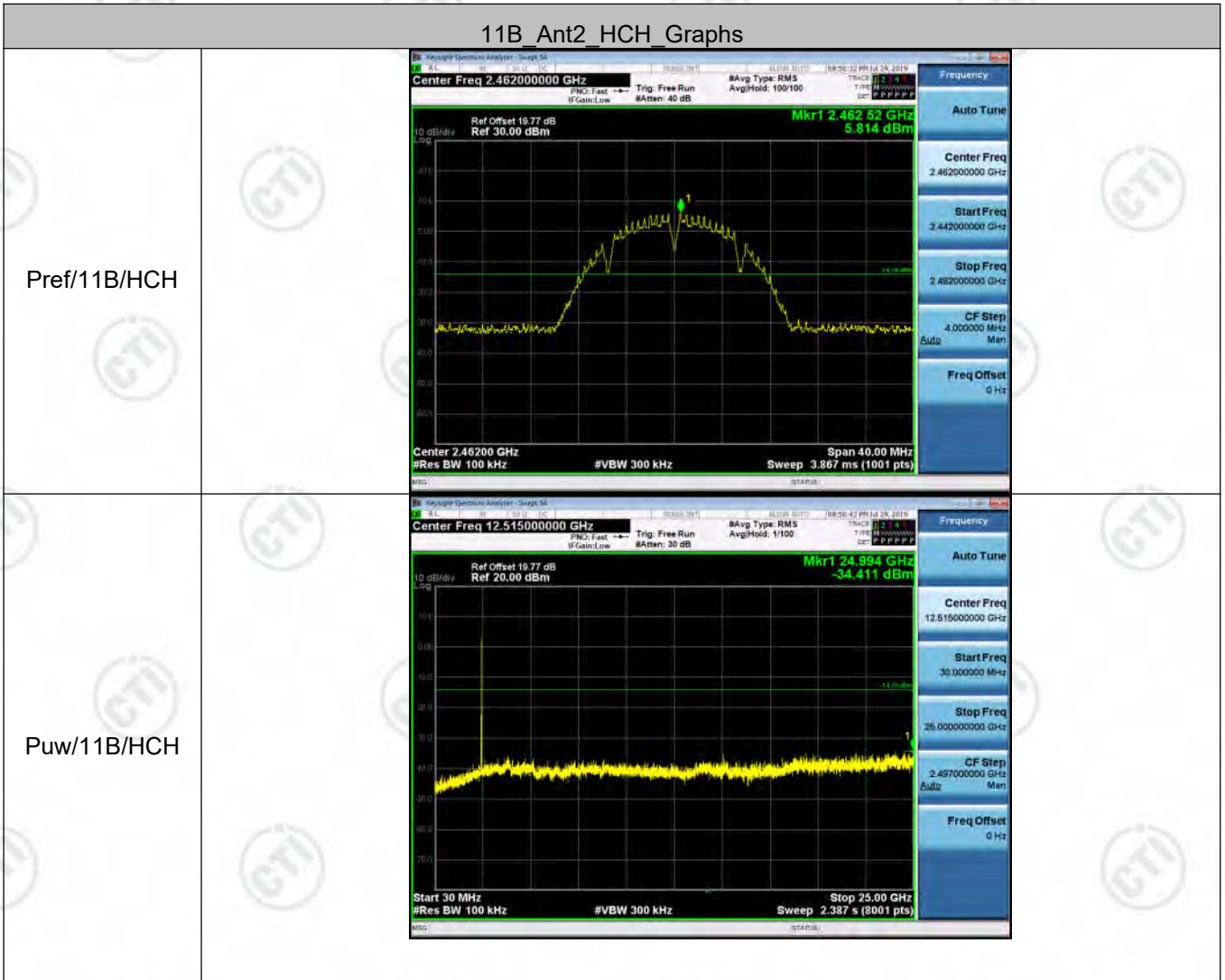
11B_Ant2_LCH_Graphs

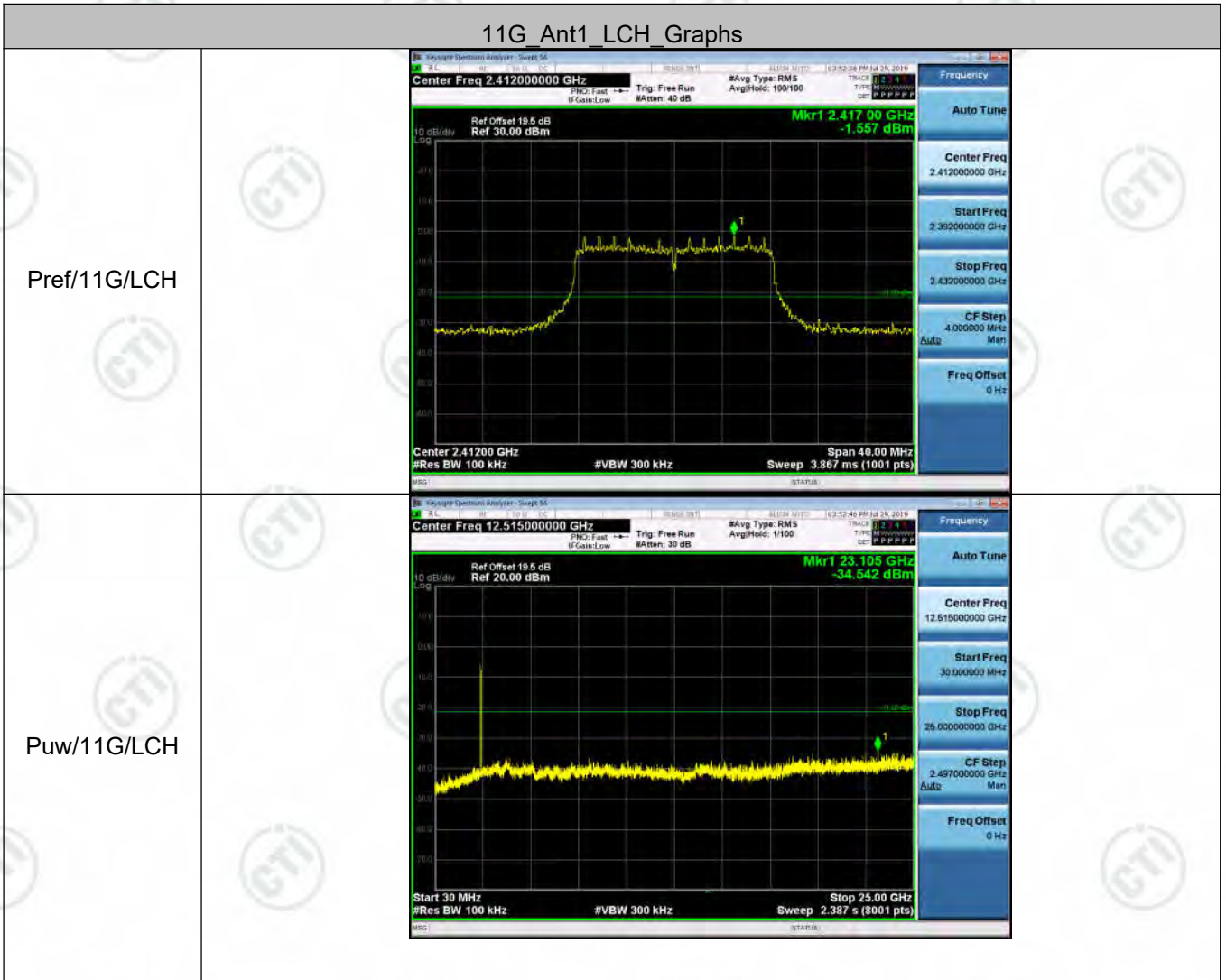


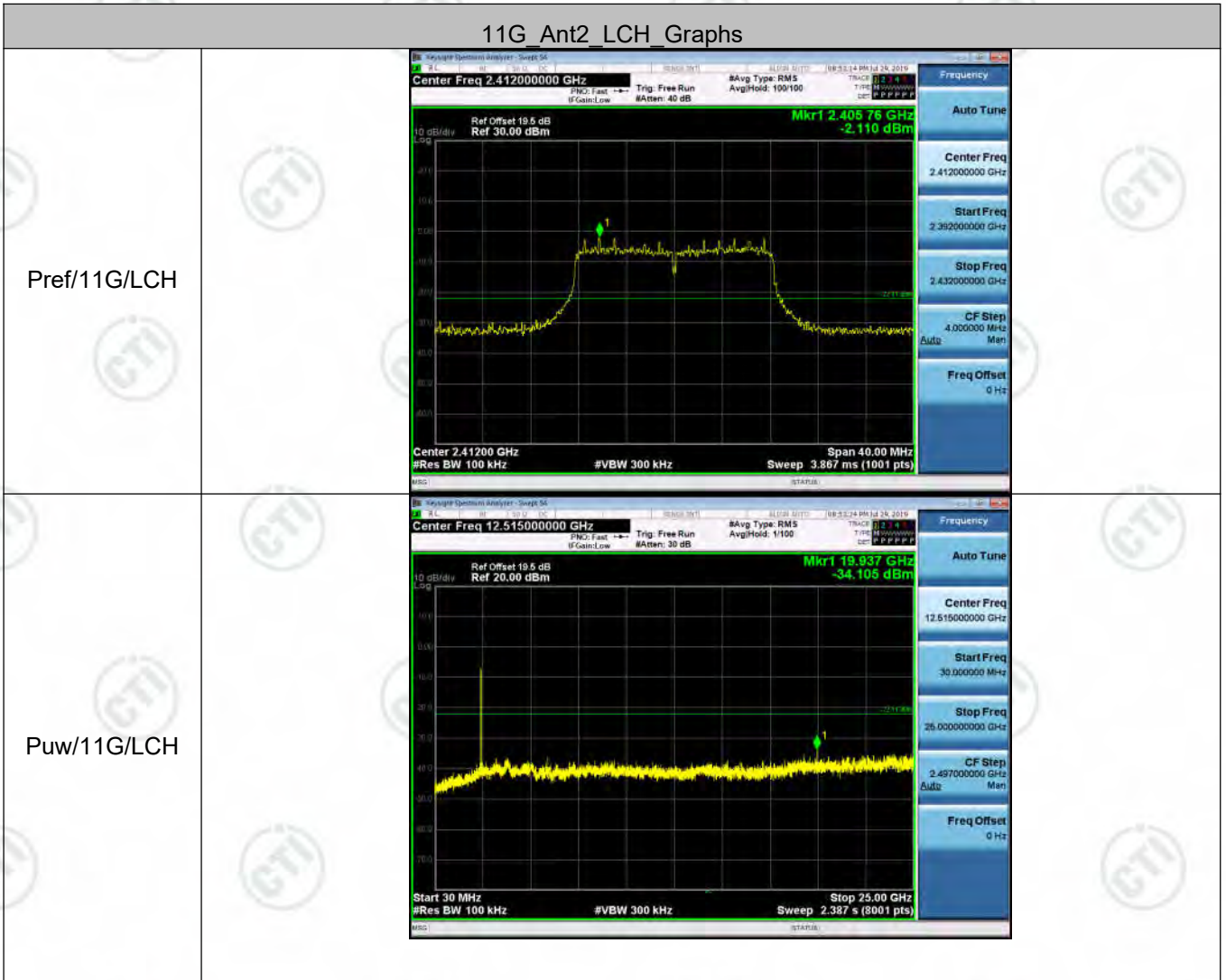


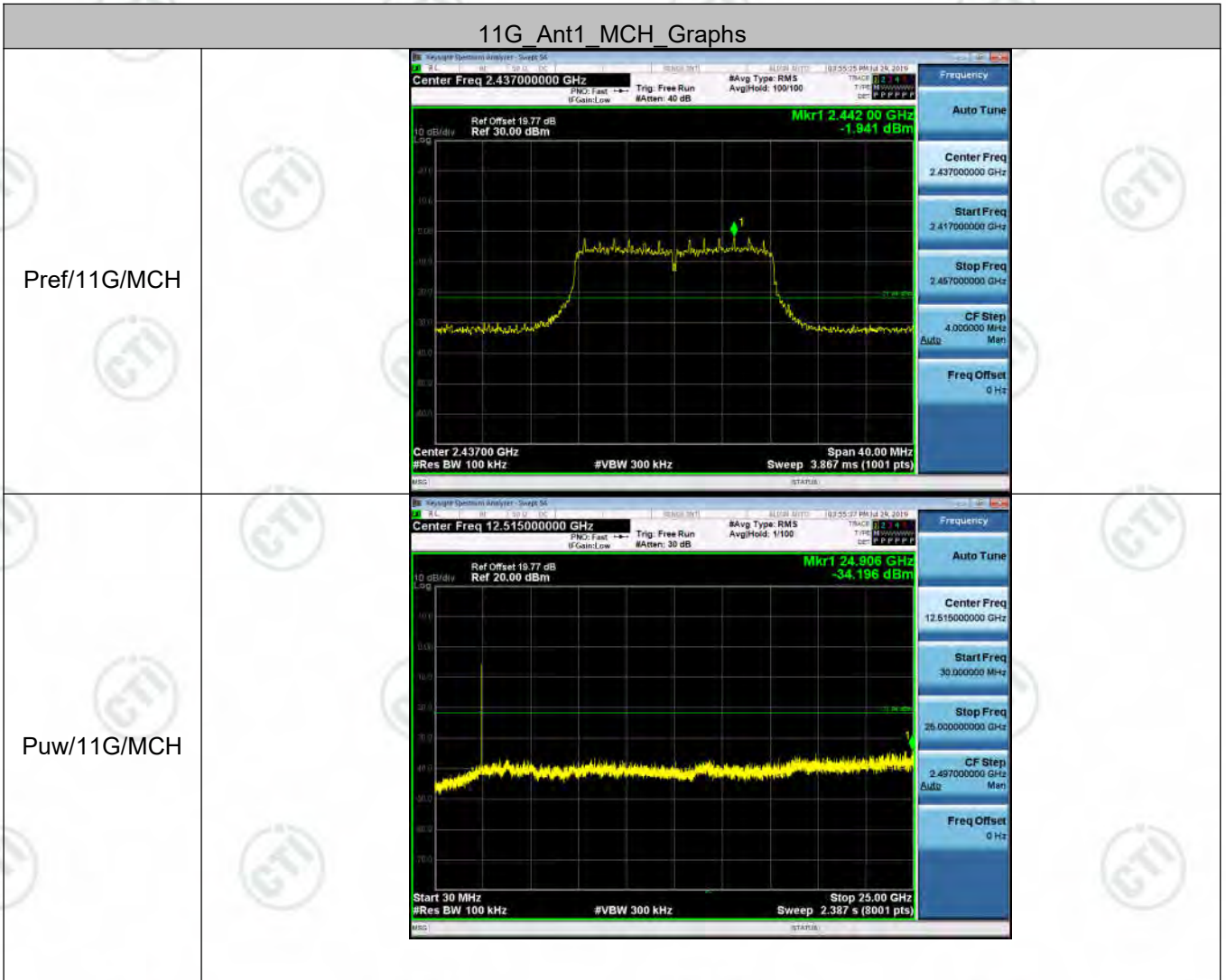


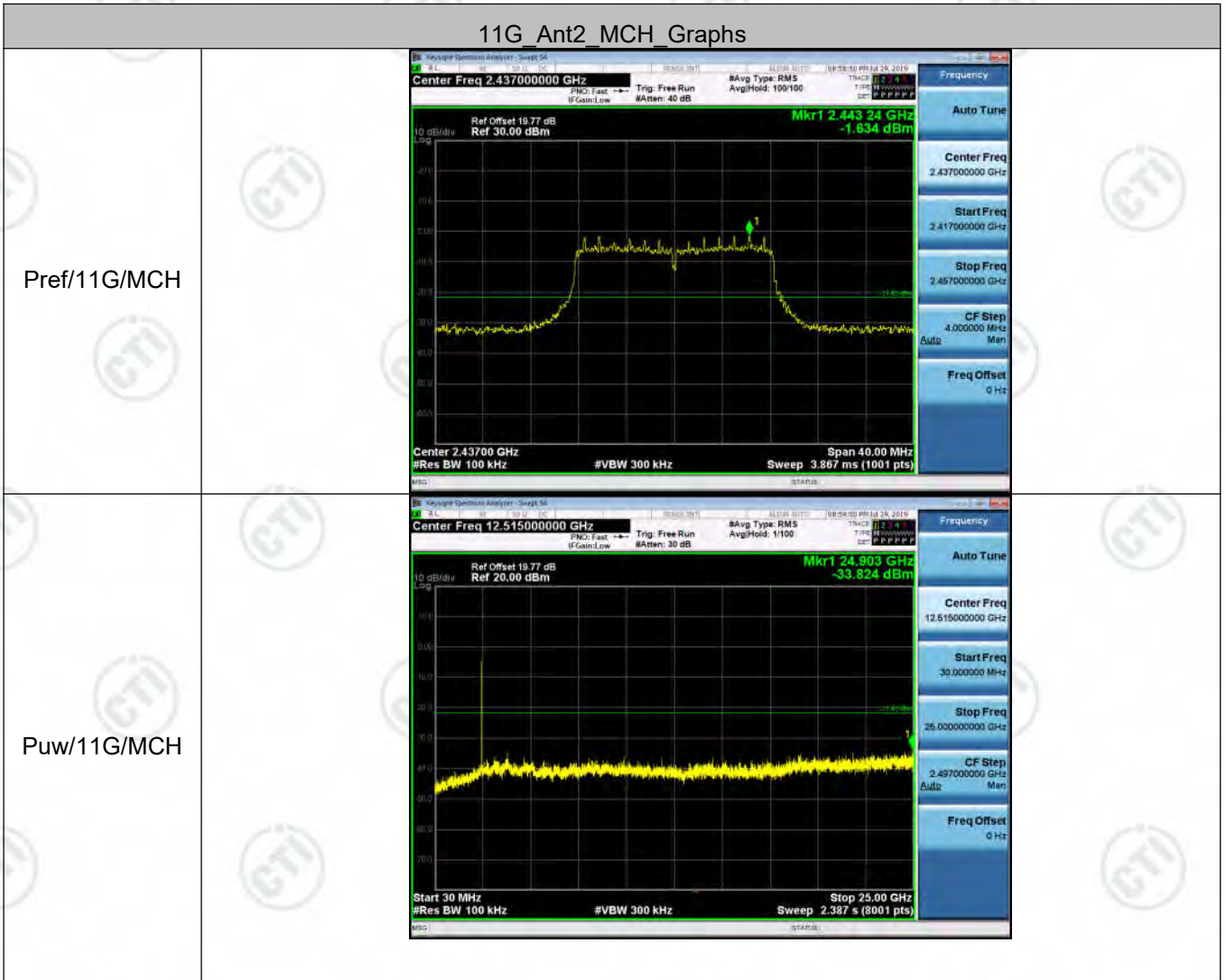


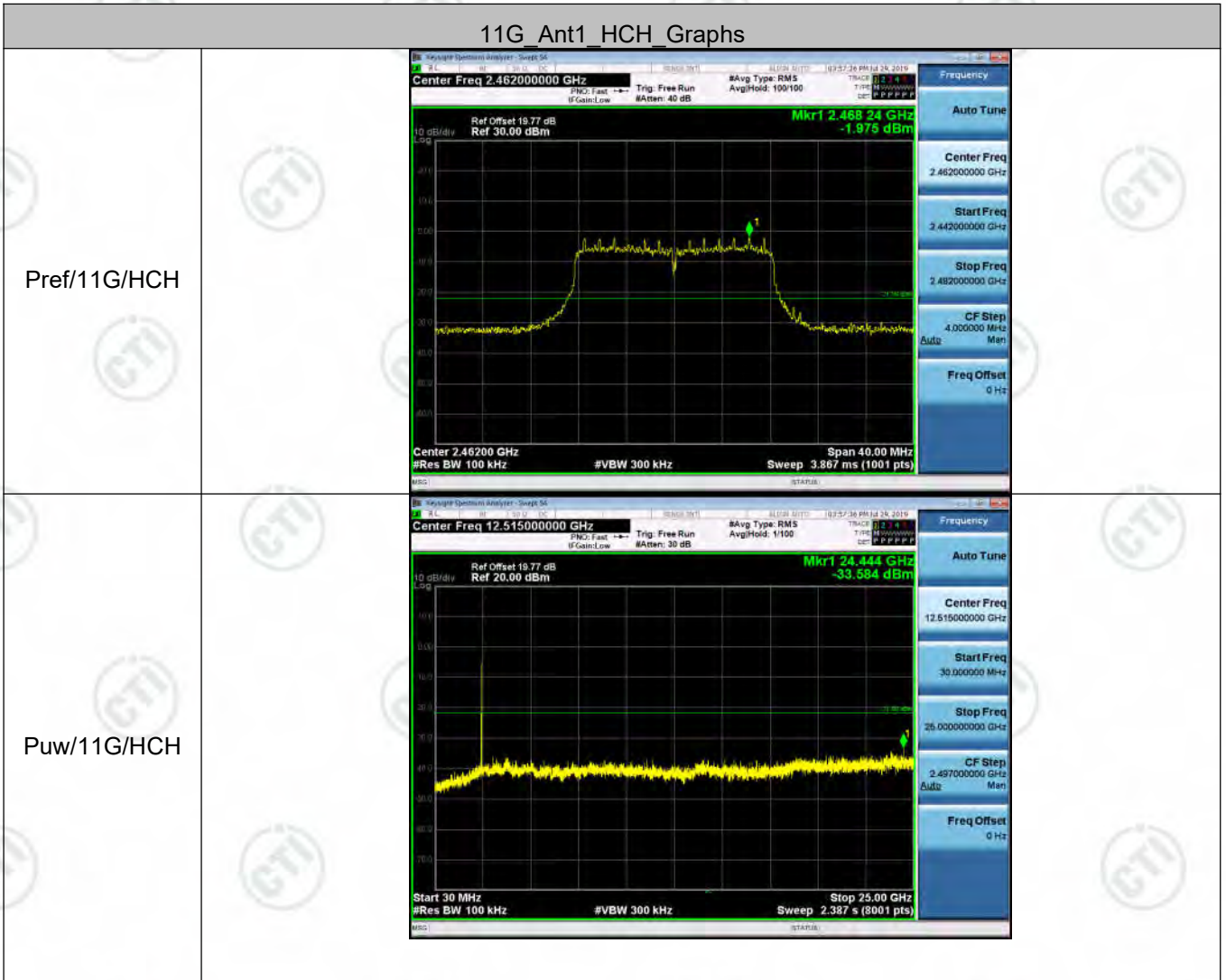


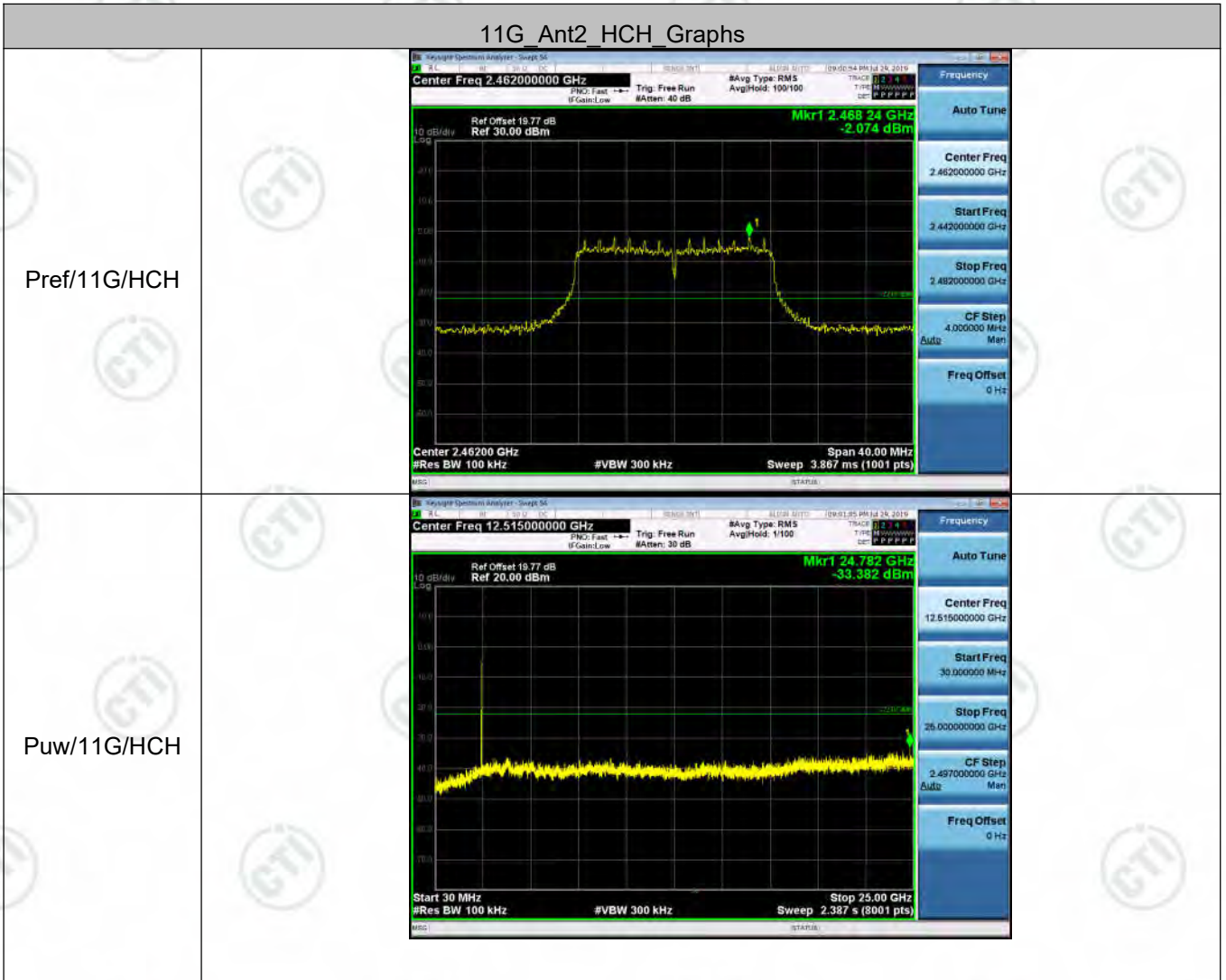


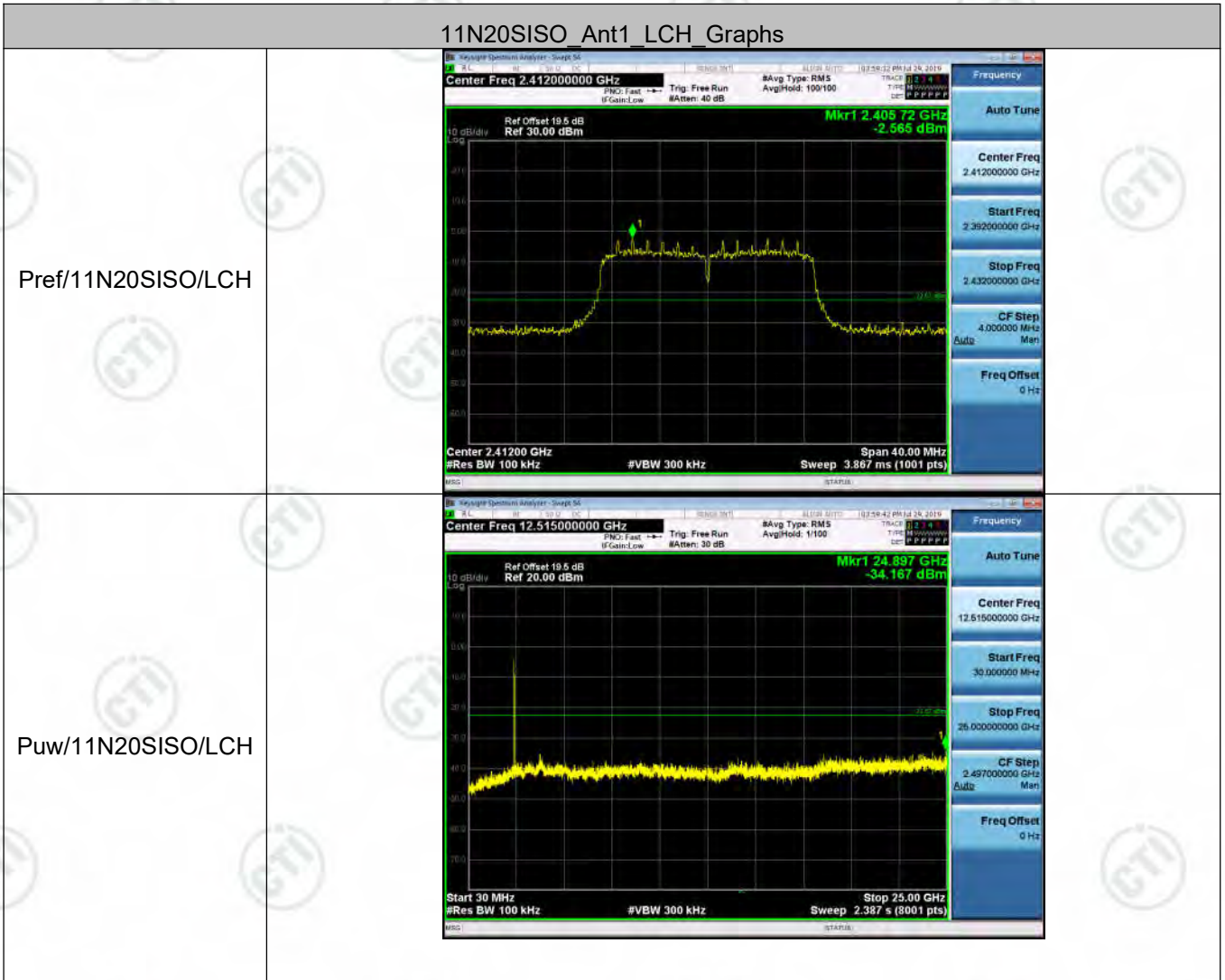




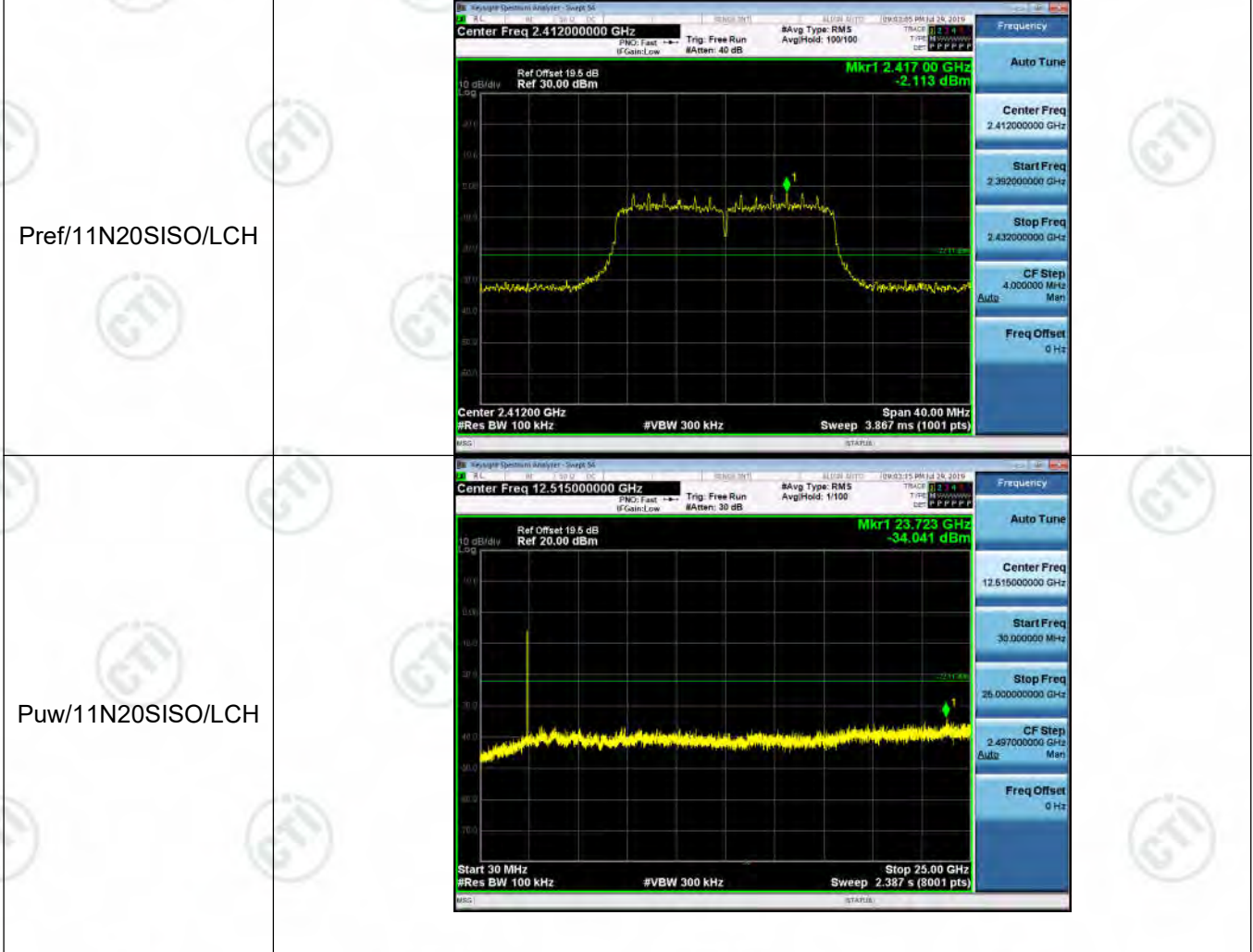




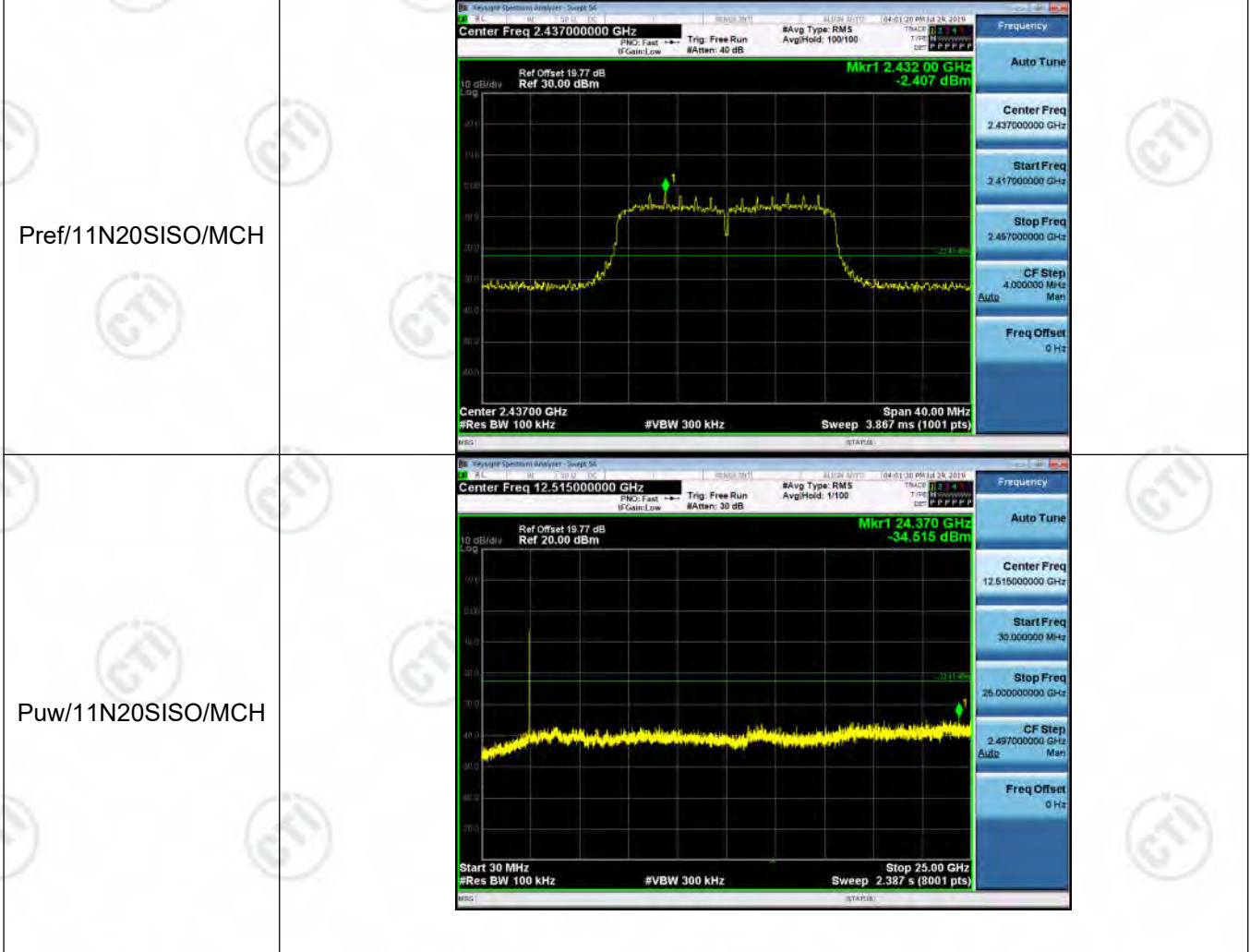




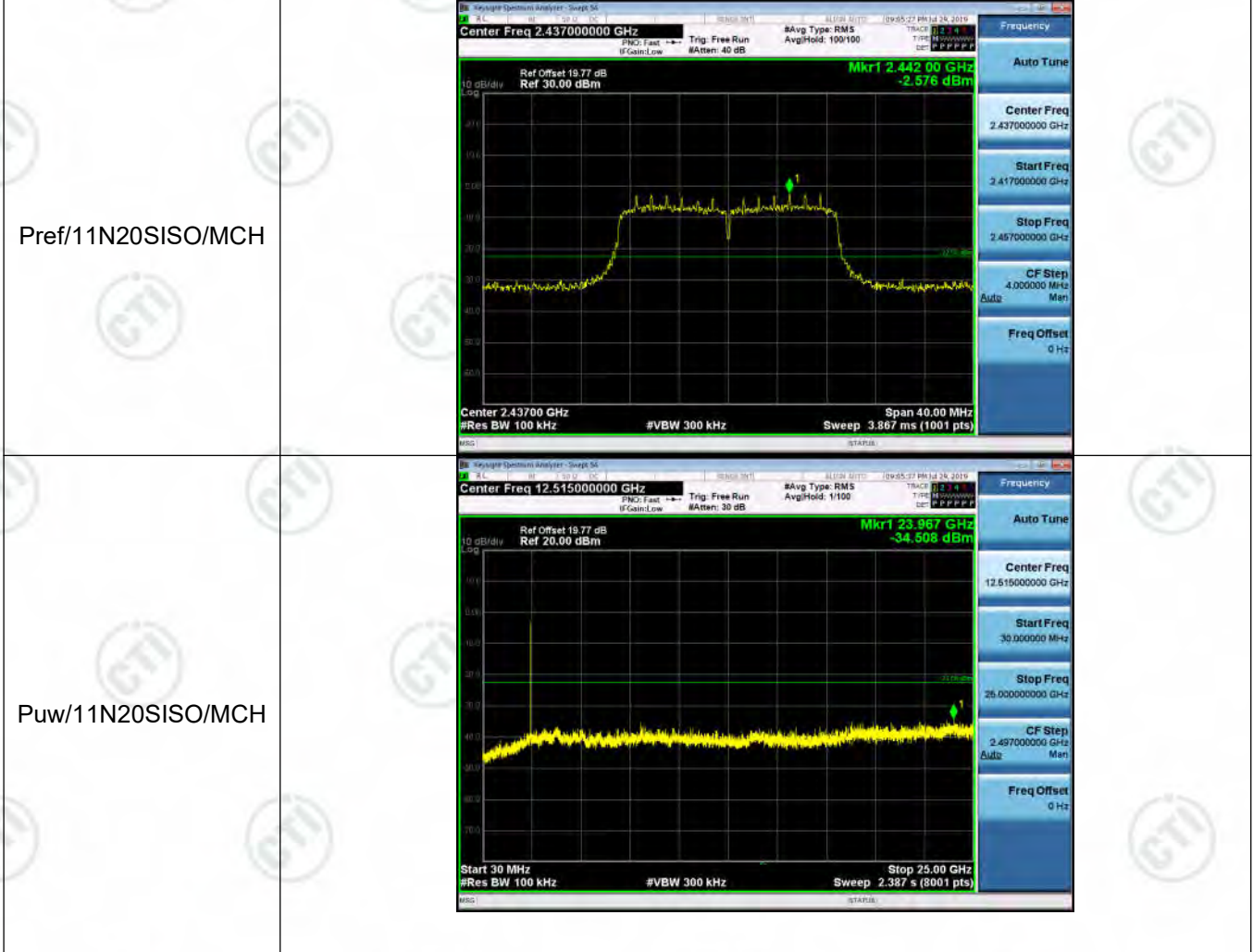
11N20SISO Ant2 LCH Graphs



11N20SISO_Ant1_MCH_Graphs



11N20SISO_Ant2_MCH_Graphs



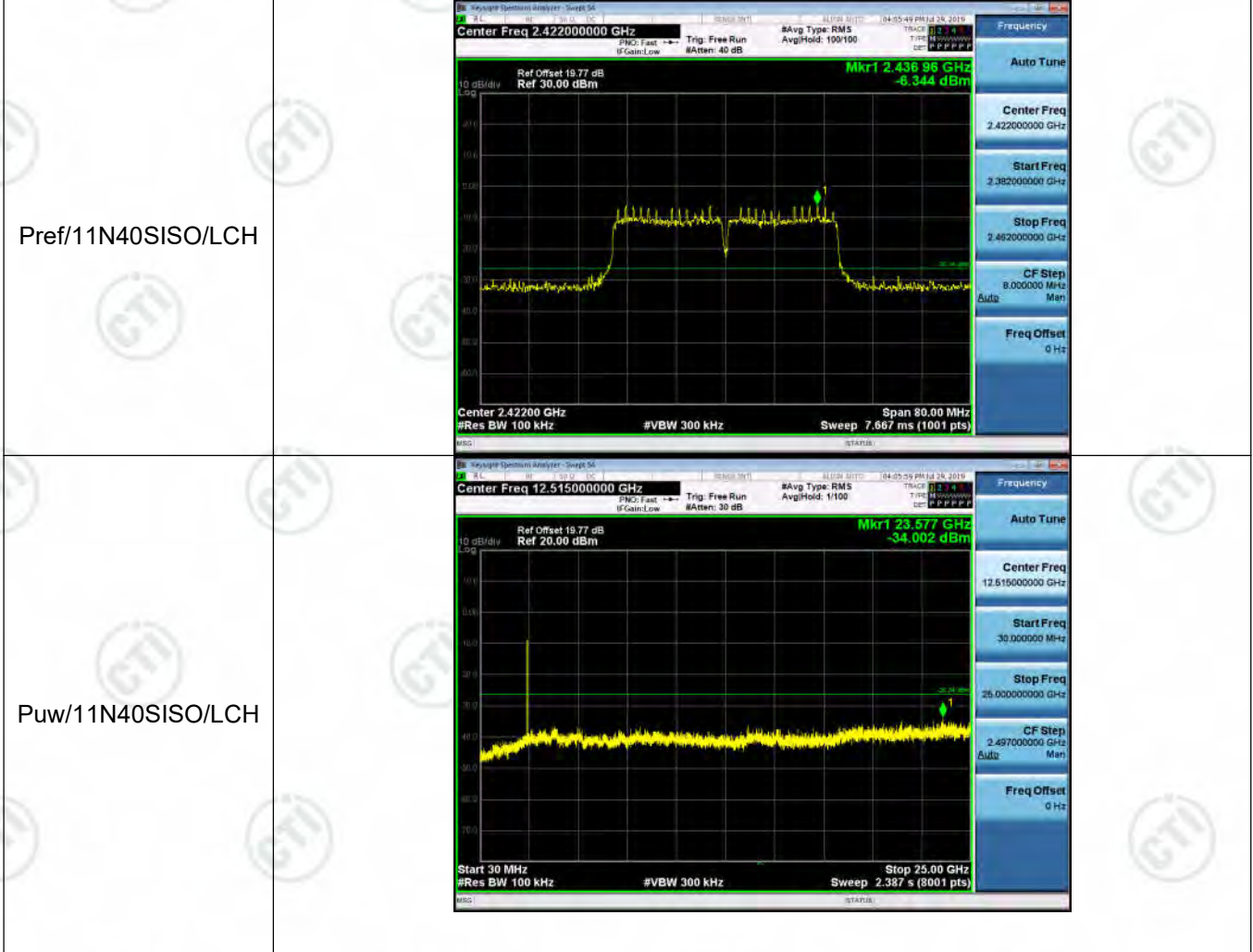
11N20SISO_Ant1_HCH_Graphs



11N20SISO_Ant2_HCH_Graphs

<p>Pref/11N20SISO/HCH</p>	
<p>Puw/11N20SISO/HCH</p>	

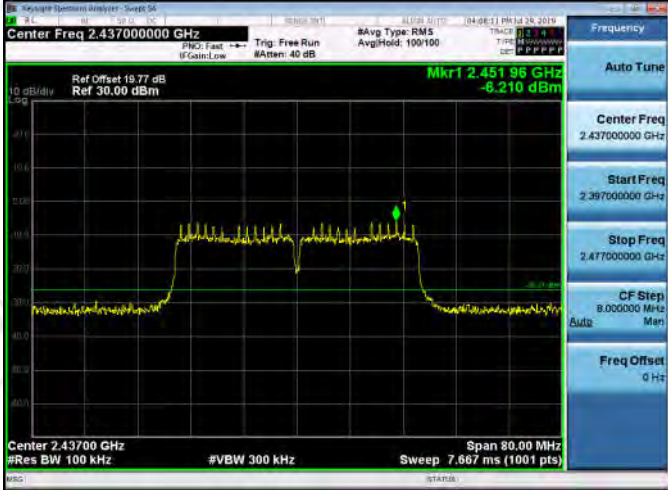

11N40SISO Ant1 LCH Graphs



11N40SISO Ant2 LCH Graphs



11N40SISO_Ant1_MCH_Graphs

<p>Pref/11N40SISO/MCH</p>	
<p>Puw/11N40SISO/MCH</p>	

11N40SISO_Ant2_MCH_Graphs

<p>Pref/11N40SISO/MCH</p>	
<p>Puw/11N40SISO/MCH</p>	

11N40SISO_Ant1_HCH_Graphs



11N40SISO_Ant2_HCH_Graphs



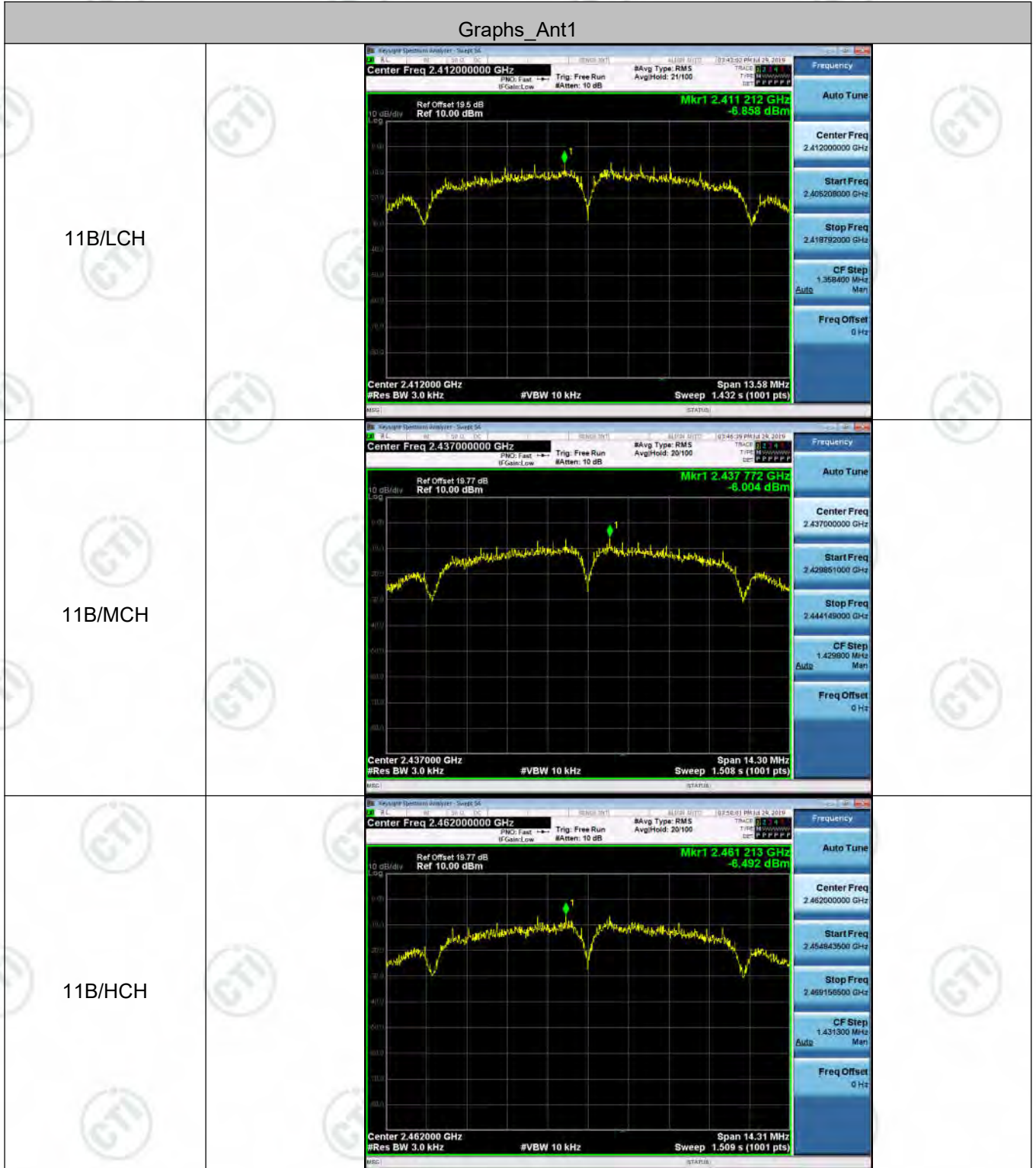
Appendix E): Power Spectral Density

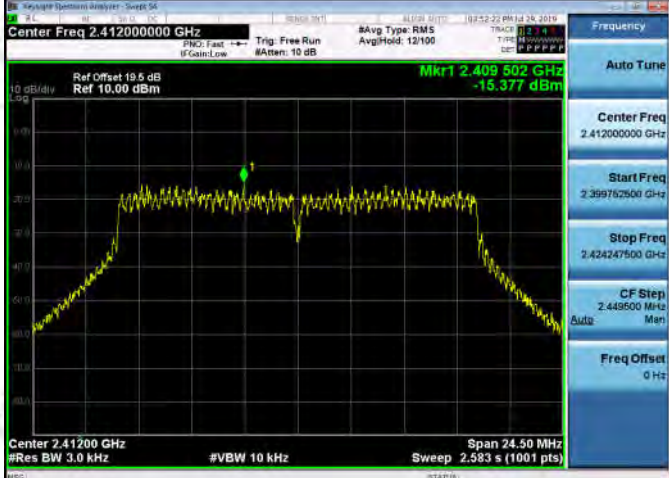
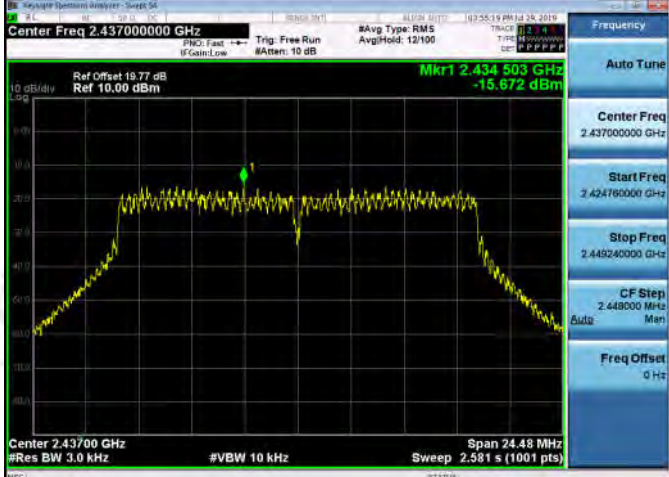
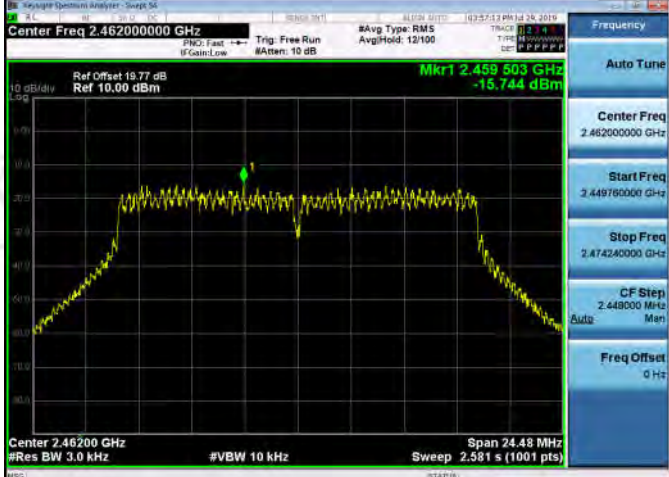
Result Table


Mode	Antenna	Channel	Power Spectral Density [dBm]	Verdict
11B	Ant1	LCH	-6.858	PASS
11B	Ant2	LCH	-8.613	PASS
11B	Ant1	MCH	-6.004	PASS
11B	Ant2	MCH	-8.103	PASS
11B	Ant1	HCH	-6.492	PASS
11B	Ant2	HCH	-8.547	PASS
11G	Ant1	LCH	-15.377	PASS
11G	Ant2	LCH	-16.454	PASS
11G	Ant1	MCH	-15.672	PASS
11G	Ant2	MCH	-15.384	PASS
11G	Ant1	HCH	-15.744	PASS
11G	Ant2	HCH	-15.671	PASS
11N20SISO	Ant1	LCH	-16.586	PASS
11N20SISO	Ant2	LCH	-16.532	PASS
11N20SISO	Ant1	MCH	-16.033	PASS
11N20SISO	Ant2	MCH	-16.395	PASS
11N20SISO	Ant1	HCH	-15.445	PASS
11N20SISO	Ant2	HCH	-16.488	PASS
11N20MIMO	Ant1	LCH	-20.839	PASS
11N20MIMO	Ant2	LCH	-20.948	PASS
11N20MIMO	Ant1+2	LCH	-17.88	PASS
11N20MIMO	Ant1	MCH	-21.016	PASS
11N20MIMO	Ant2	MCH	-20.487	PASS
11N20MIMO	Ant1+2	MCH	-17.73	PASS
11N20MIMO	Ant1	HCH	-20.029	PASS
11N20MIMO	Ant2	HCH	-20.612	PASS
11N20MIMO	Ant1+2	HCH	-17.30	PASS
11N40SISO	Ant1	LCH	-20.351	PASS
11N40SISO	Ant2	LCH	-20.111	PASS
11N40SISO	Ant1	MCH	-20.644	PASS
11N40SISO	Ant2	MCH	-19.955	PASS

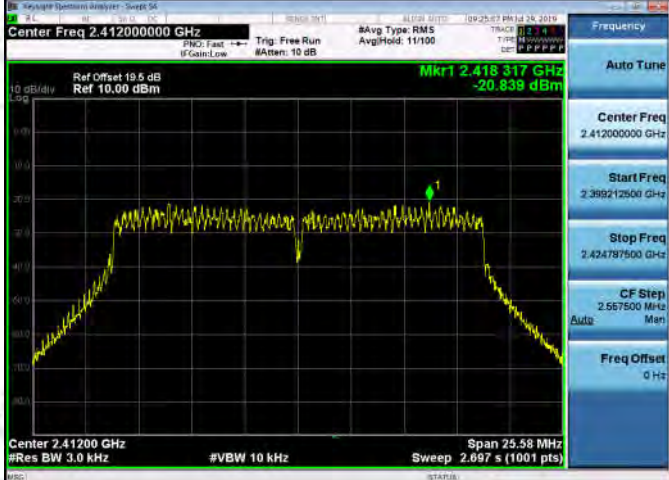
11N40SISO	Ant1	HCH	-20.449	PASS
11N40SISO	Ant2	HCH	-20.146	PASS
11N40MIMO	Ant1	LCH	-24.346	PASS
11N40MIMO	Ant2	LCH	-23.746	PASS
11N40MIMO	Ant1+2	LCH	-21.03	PASS
11N40MIMO	Ant1	MCH	-25.231	PASS
11N40MIMO	Ant2	MCH	-24.103	PASS
11N40MIMO	Ant1+2	MCH	-21.62	PASS
11N40MIMO	Ant1	HCH	-24.037	PASS
11N40MIMO	Ant2	HCH	-23.795	PASS
11N40MIMO	Ant1+2	HCH	-20.90	PASS



Test Graph



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

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

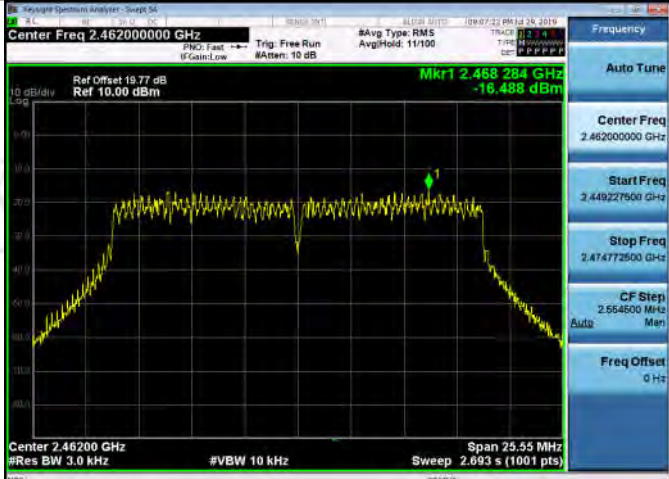
<p>11N20MIMO/LCH</p>	
<p>11N20MIMO/MCH</p>	
<p>11N20MIMO/HCH</p>	

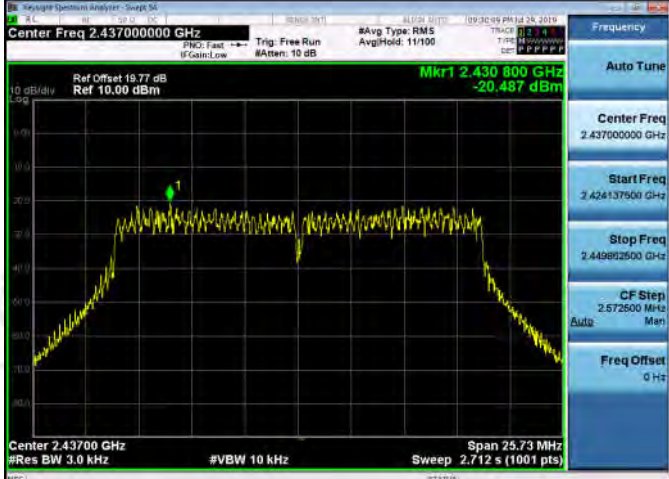
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<p>11N40SISO/MCH</p>	
<p>11N40SISO/HCH</p>	

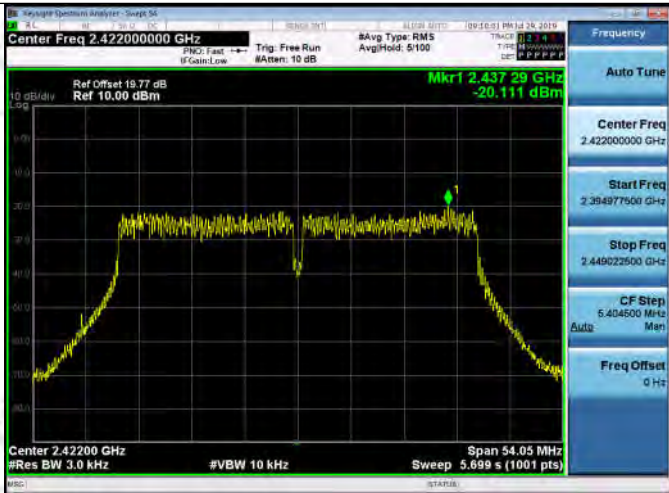
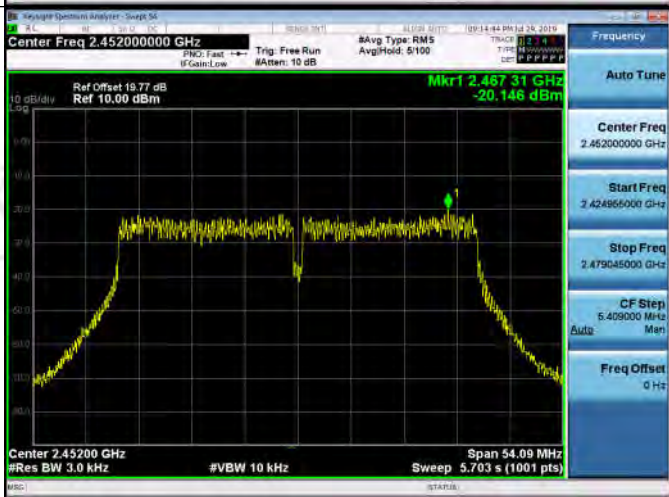
<p>11N40MIMO/LCH</p>	
<p>11N40MIMO/MCH</p>	
<p>11N40MIMO/HCH</p>	



<p>11G/LCH</p>	<p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 19.5 dB Ref 10.00 dBm</p> <p>Mkr1 2.409 502 GHz -16.454 dBm</p> <p>Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 24.50 MHz Sweep 2.583 s (1001 pts)</p>
<p>11G/MCH</p>	<p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Mkr1 2.434 502 GHz -15.384 dBm</p> <p>Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 24.50 MHz Sweep 2.583 s (1001 pts)</p>
<p>11G/HCH</p>	<p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 19.77 dB Ref 10.00 dBm</p> <p>Mkr1 2.459 502 GHz -15.671 dBm</p> <p>Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 24.50 MHz Sweep 2.583 s (1001 pts)</p>

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

<p>11N20MIMO/LCH</p>	
<p>11N20MIMO/MCH</p>	
<p>11N20MIMO/HCH</p>	

<p>11N40SISO/LCH</p>	
<p>11N40SISO/MCH</p>	
<p>11N40SISO/HCH</p>	

<p>11N40MIMO/LCH</p>	
<p>11N40MIMO/MCH</p>	
<p>11N40MIMO/HCH</p>	

Appendix F): Antenna Requirement

15.203 requirement:

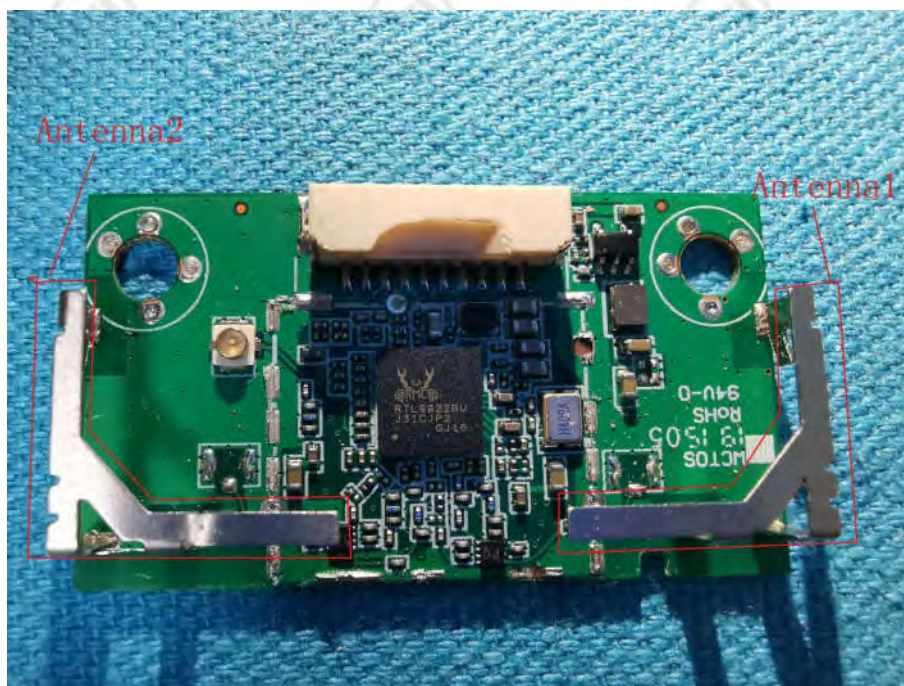
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 2.94dBi.



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.

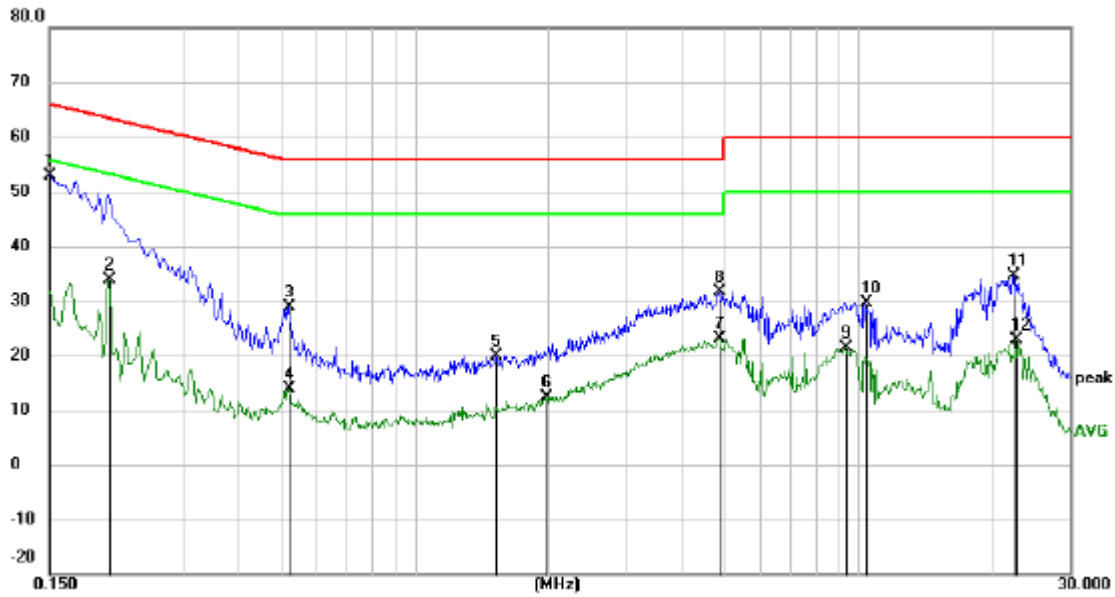
Product : WIFI+BT Module

Model/Type reference : WCT0SR2311

Temperature : 21°C

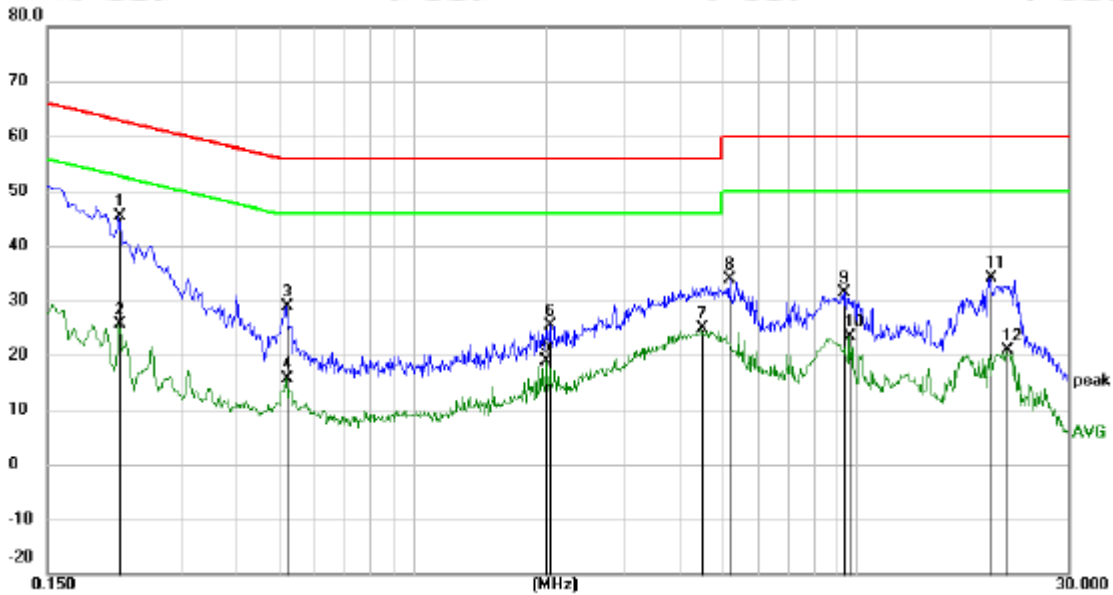
Humidity : 51%

Live line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	43.02	9.97	52.99	66.00	-13.01	peak	
2		0.2040	23.95	10.02	33.97	53.45	-19.48	AVG	
3		0.5190	18.82	10.02	28.84	56.00	-27.16	peak	
4		0.5190	3.89	10.02	13.91	46.00	-32.09	AVG	
5		1.5270	10.07	9.87	19.94	56.00	-36.06	peak	
6		1.9725	2.48	9.83	12.31	46.00	-33.69	AVG	
7		4.8345	13.34	9.83	23.17	46.00	-22.83	AVG	
8		4.8705	21.68	9.83	31.51	56.00	-24.49	peak	
9		9.3075	11.35	9.93	21.28	50.00	-28.72	AVG	
10		10.3425	19.63	9.96	29.59	60.00	-30.41	peak	
11		22.2314	24.64	9.94	34.58	60.00	-25.42	peak	
12		22.5960	12.83	9.94	22.77	50.00	-27.23	AVG	

Neutral line:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.2175	35.30	10.03	45.33	62.91	-17.58	peak	
2		0.2175	15.61	10.03	25.64	52.91	-27.27	AVG	
3		0.5190	18.74	10.02	28.76	56.00	-27.24	peak	
4		0.5190	5.64	10.02	15.66	46.00	-30.34	AVG	
5		1.9995	8.98	9.83	18.81	46.00	-27.19	AVG	
6		2.0400	15.52	9.83	25.35	56.00	-30.65	peak	
7		4.4880	14.96	9.83	24.79	46.00	-21.21	AVG	
8		5.1765	23.96	9.83	33.79	60.00	-26.21	peak	
9		9.3569	21.43	9.94	31.37	60.00	-28.63	peak	
10		9.6090	13.45	9.95	23.40	50.00	-26.60	AVG	
11		19.9500	24.12	9.93	34.05	60.00	-25.95	peak	
12		21.8265	10.95	9.94	20.89	50.00	-29.11	AVG	

Notes:

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

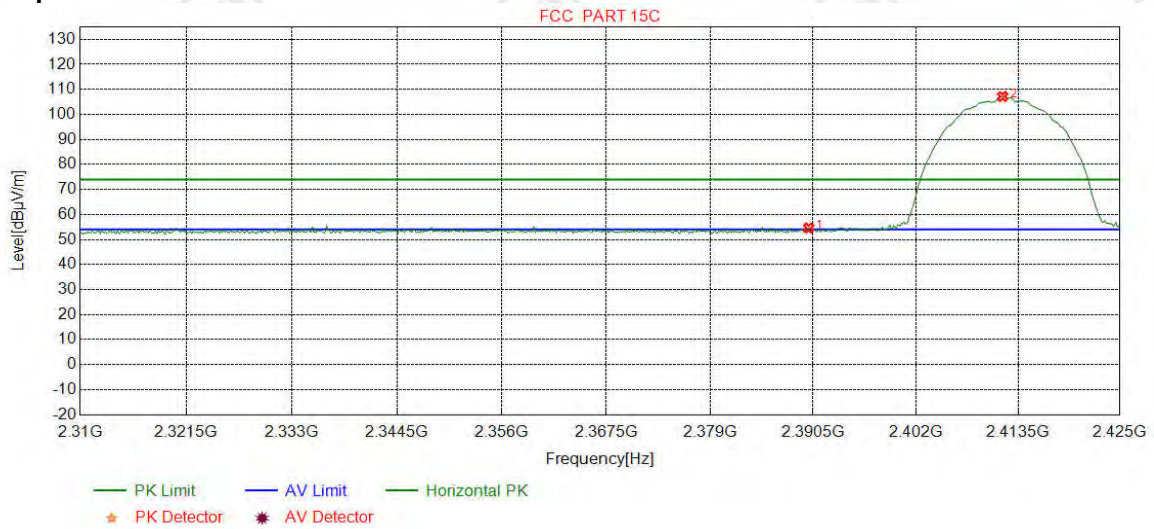
Appendix H): Restricted bands around fundamental frequency (Radiated)

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> <p>Test method Refer as KDB 558074 D01</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:
Antenna 1:

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

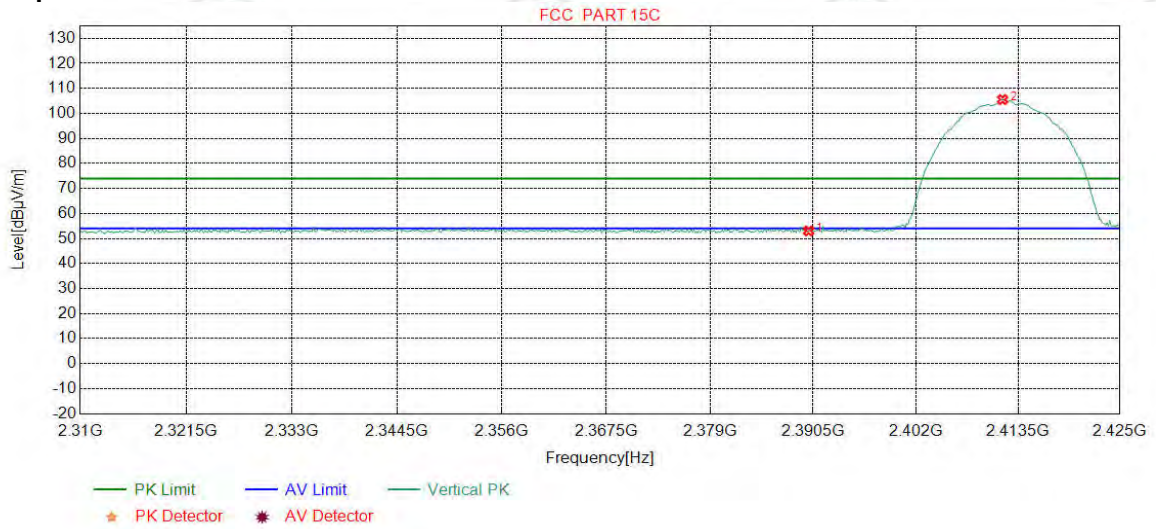
Test Graph



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	51.44	54.62	74.00	19.38	Pass	Horizontal
2	2411.7584	32.28	13.35	-42.43	103.98	107.18	74.00	-33.18	Pass	Horizontal

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

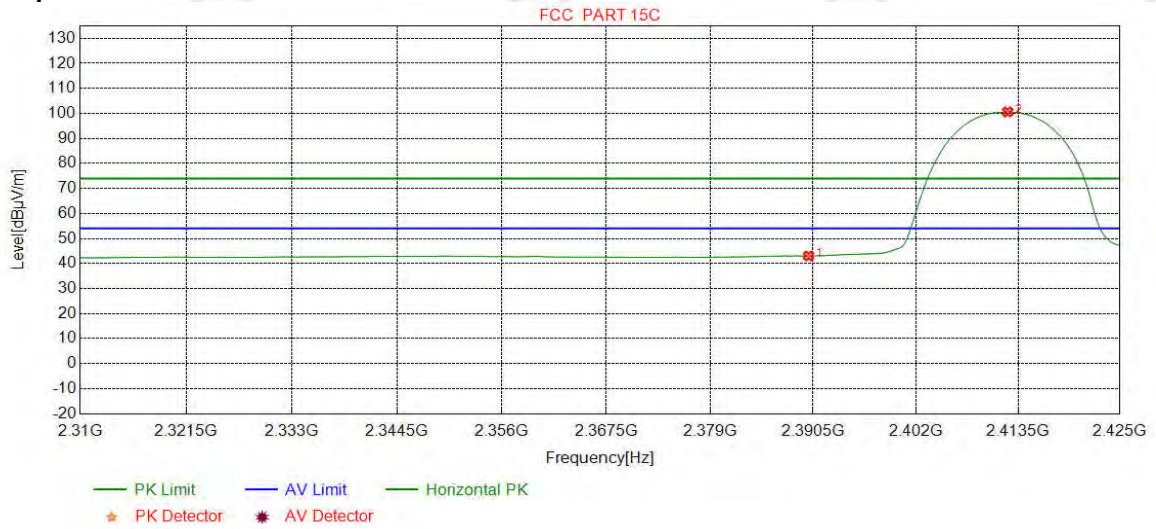
Test Graph



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	49.84	53.02	74.00	20.98	Pass	Vertical
2	2411.7584	32.28	13.35	-42.43	102.32	105.52	74.00	-31.52	Pass	Vertical

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

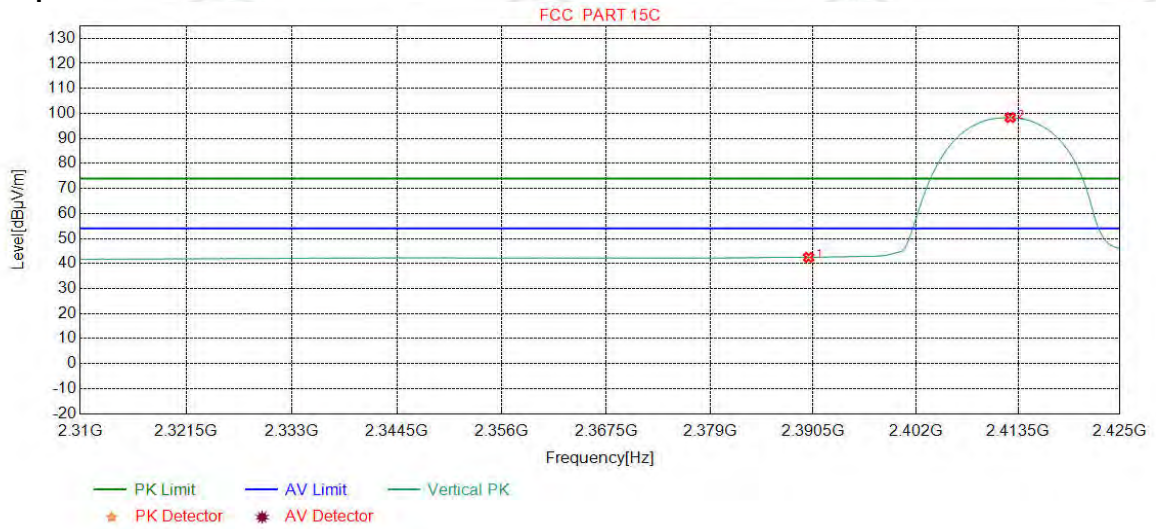
Test Graph



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	39.86	43.04	54.00	10.96	Pass	Horizontal
2	2412.3342	32.28	13.36	-42.43	97.36	100.57	54.00	-46.57	Pass	Horizontal

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

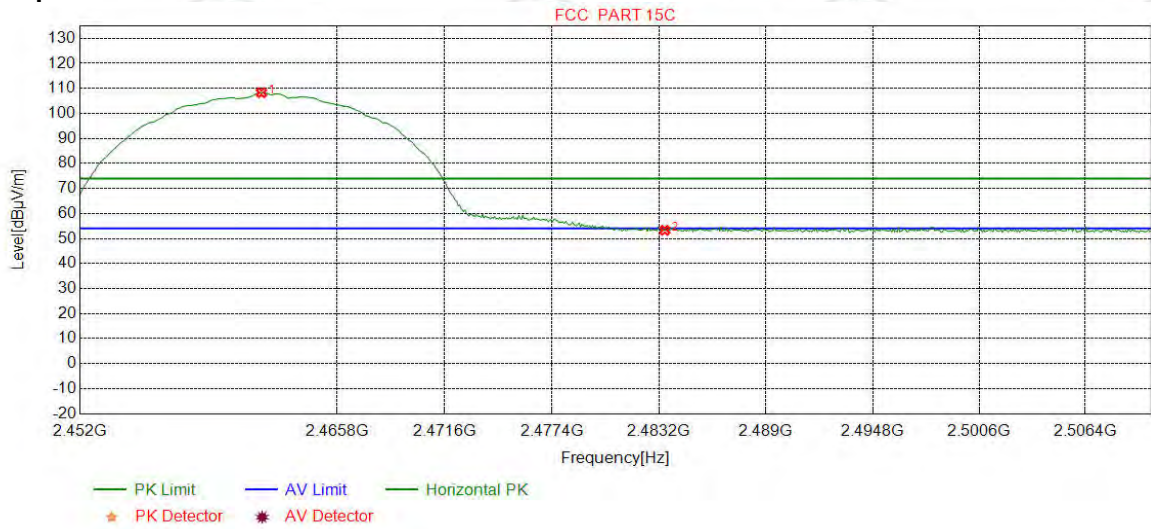
Test Graph



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	39.29	42.47	54.00	11.53	Pass	Vertical
2	2412.6220	32.28	13.36	-42.43	95.12	98.33	54.00	-44.33	Pass	Vertical

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

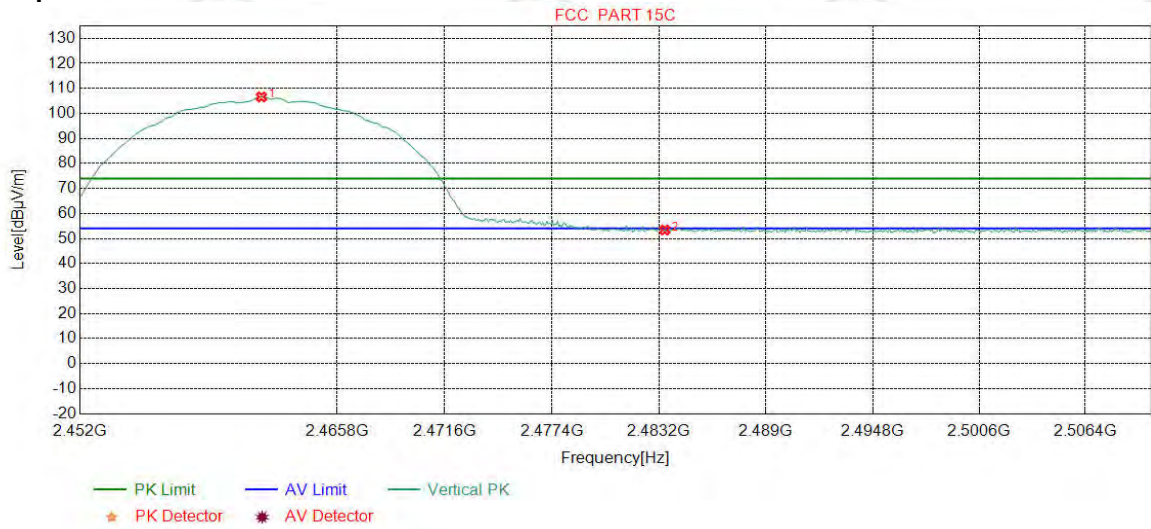
Test Graph



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	2461.7272	32.35	13.48	-42.41	104.88	108.30	74.00	-34.30	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	49.91	53.27	74.00	20.73	Pass	Horizontal

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

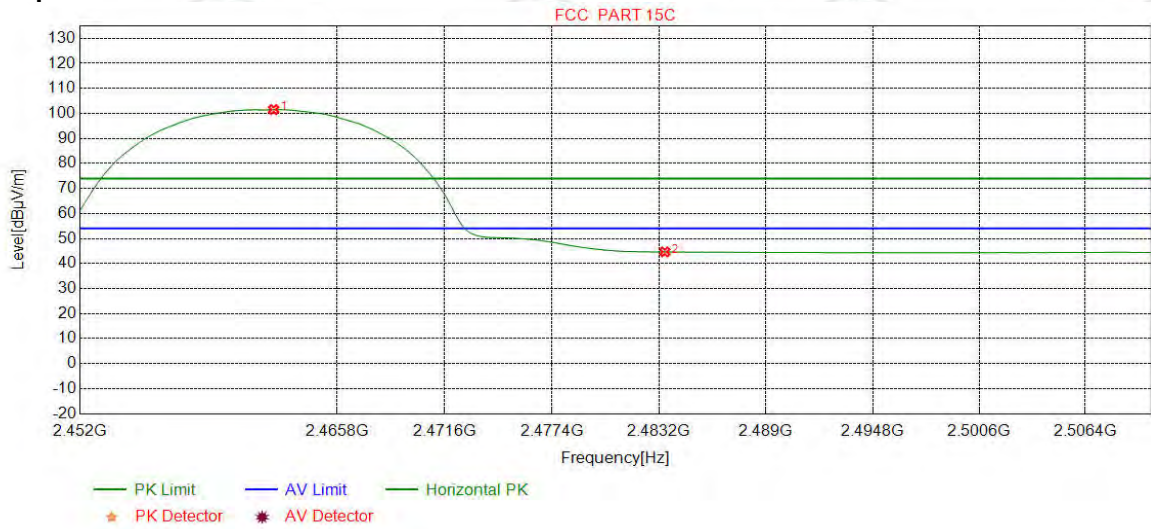
Test Graph



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	2461.7272	32.35	13.48	-42.41	103.18	106.60	74.00	-32.60	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	50.03	53.39	74.00	20.61	Pass	Vertical

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

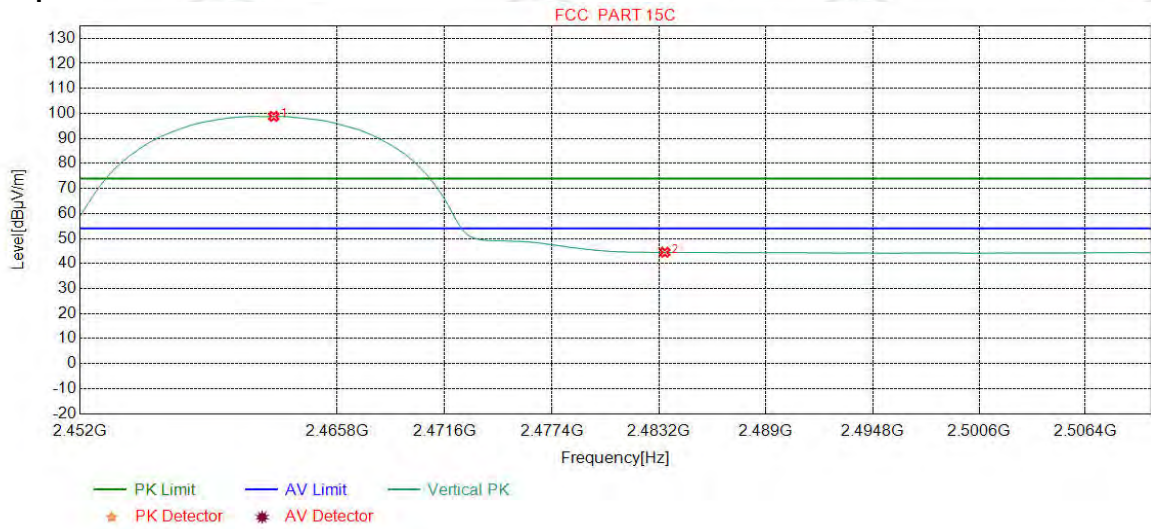
Test Graph



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	2462.3805	32.35	13.47	-42.41	98.10	101.51	54.00	-47.51	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	41.28	44.64	54.00	9.36	Pass	Horizontal

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

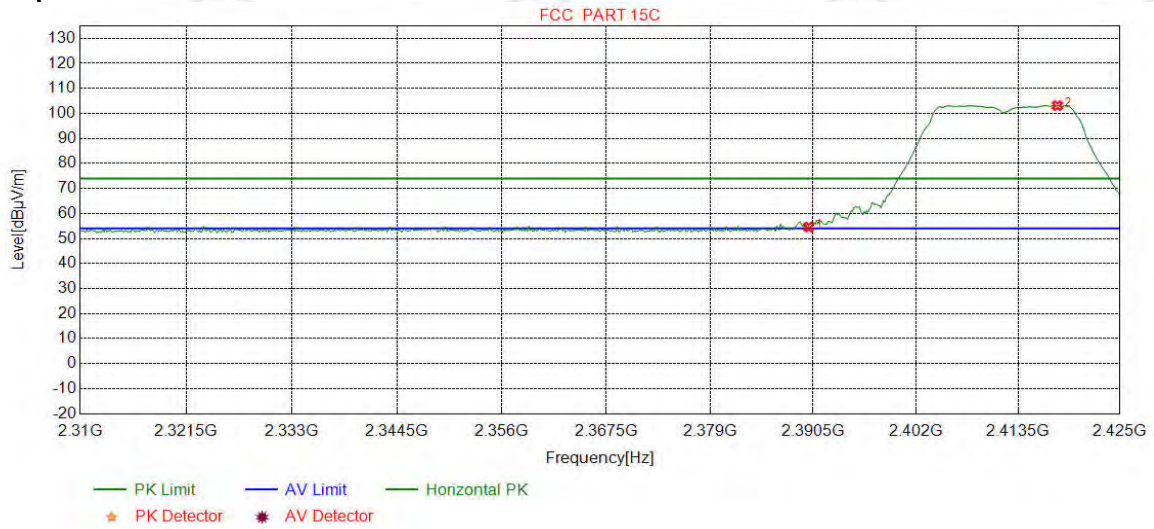
Test Graph



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	2462.3805	32.35	13.47	-42.41	95.39	98.80	54.00	-44.80	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	41.12	44.48	54.00	9.52	Pass	Vertical

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

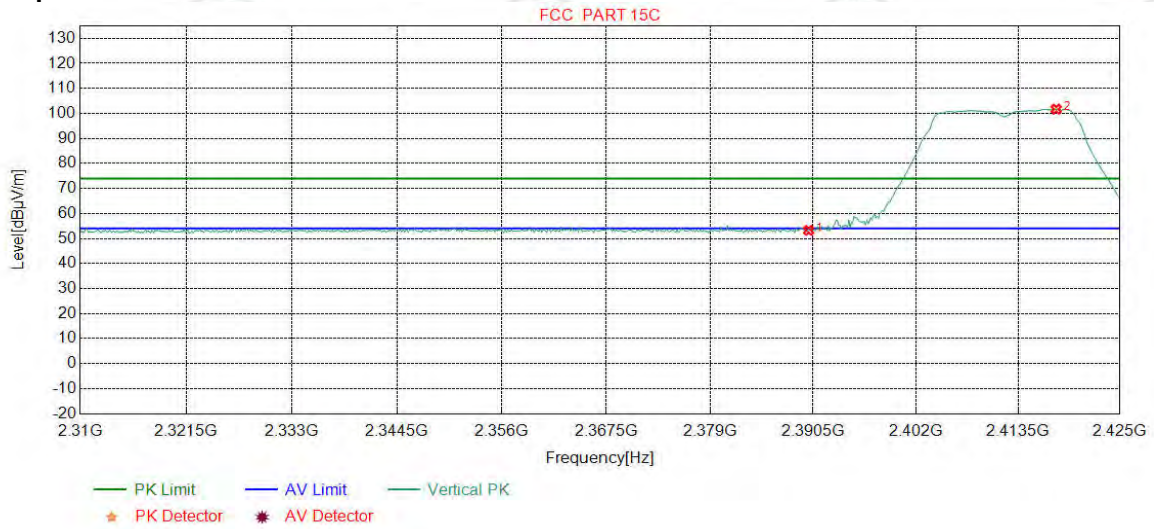
Test Graph



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	51.40	54.58	74.00	19.42	Pass	Horizontal
2	2417.9474	32.29	13.38	-42.43	99.87	103.11	74.00	-29.11	Pass	Horizontal

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

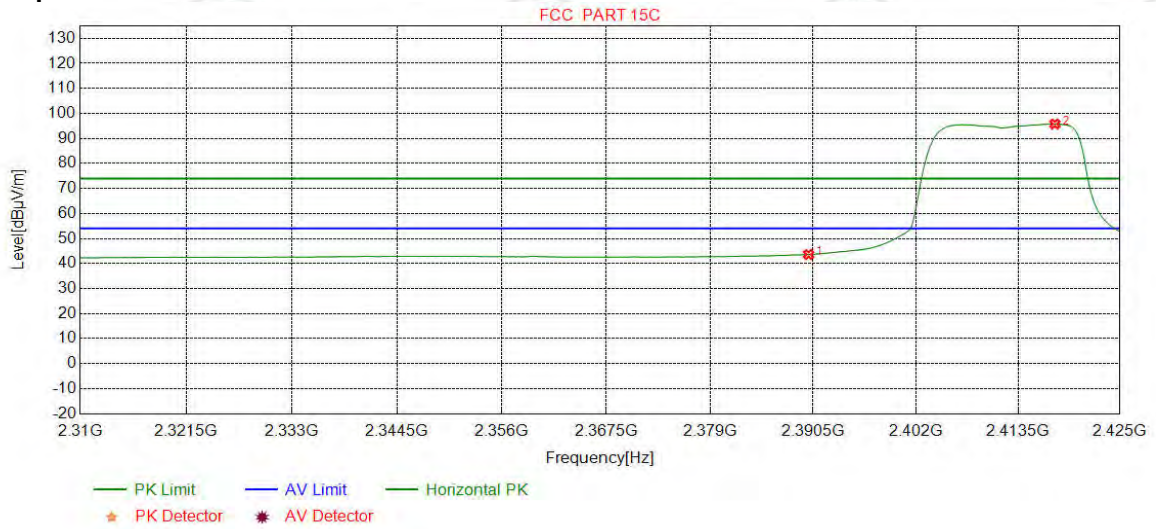
Test Graph



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	50.07	53.25	74.00	20.75	Pass	Vertical
2	2417.8035	32.28	13.38	-42.42	98.44	101.68	74.00	-27.68	Pass	Vertical

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

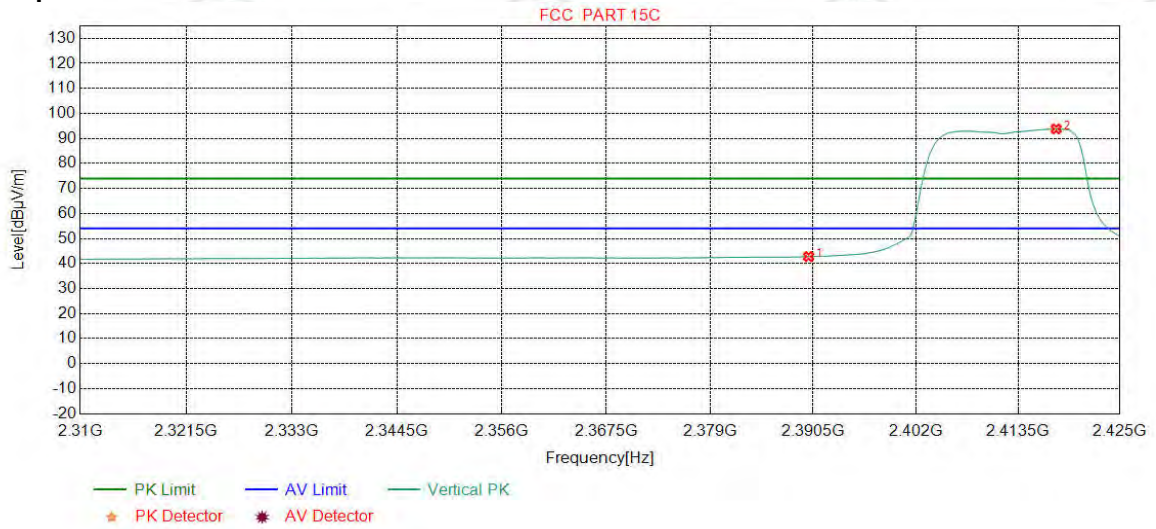
Test Graph



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	40.45	43.63	54.00	10.37	Pass	Horizontal
2	2417.6596	32.28	13.38	-42.42	92.52	95.76	54.00	-41.76	Pass	Horizontal

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

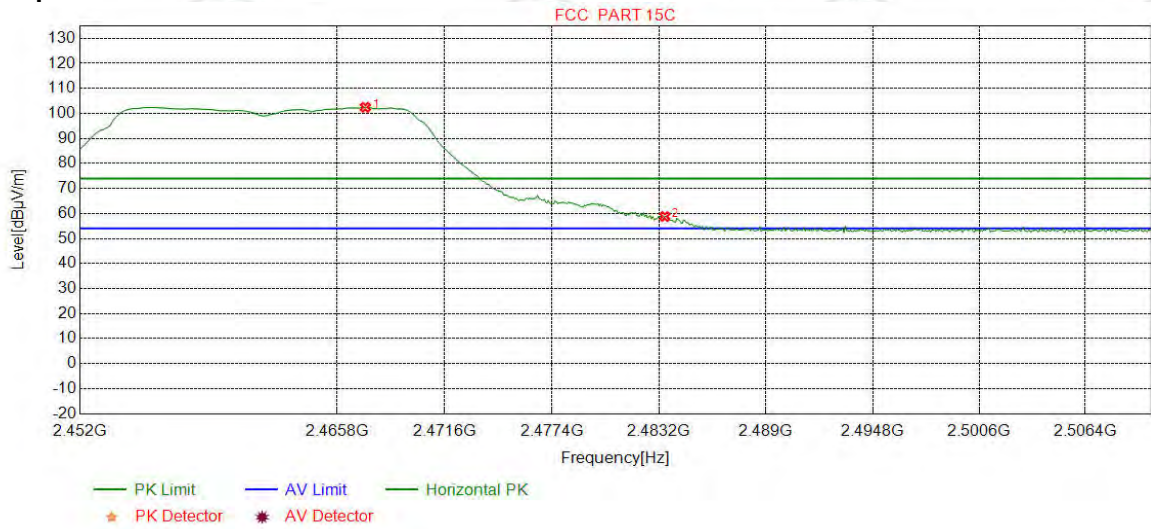
Test Graph



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	39.59	42.77	54.00	11.23	Pass	Vertical
2	2417.8035	32.28	13.38	-42.42	90.59	93.83	54.00	-39.83	Pass	Vertical

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

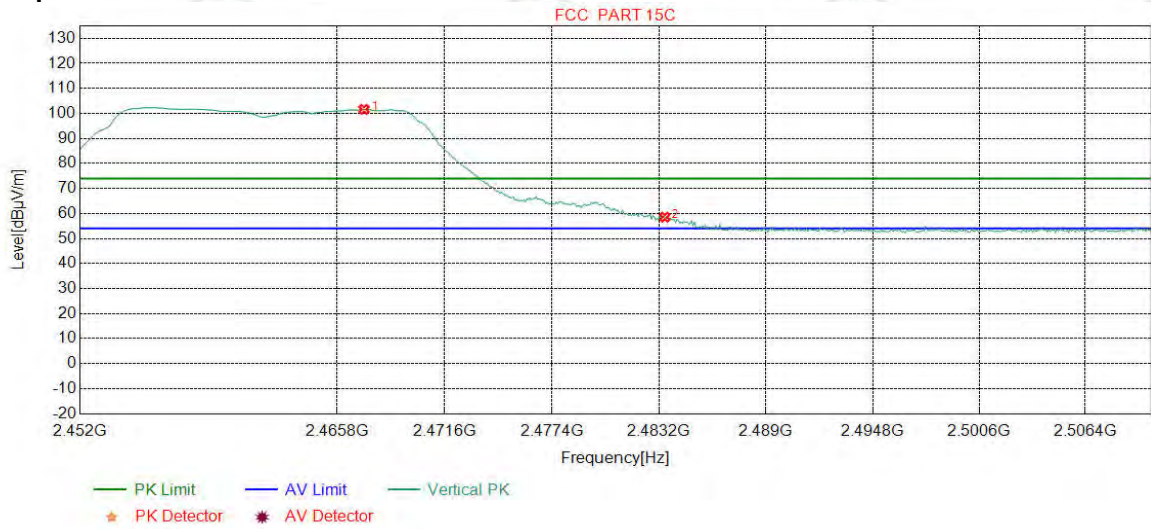
Test Graph



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	2467.3166	32.35	13.45	-42.40	99.04	102.44	74.00	-28.44	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	55.43	58.79	74.00	15.21	Pass	Horizontal

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

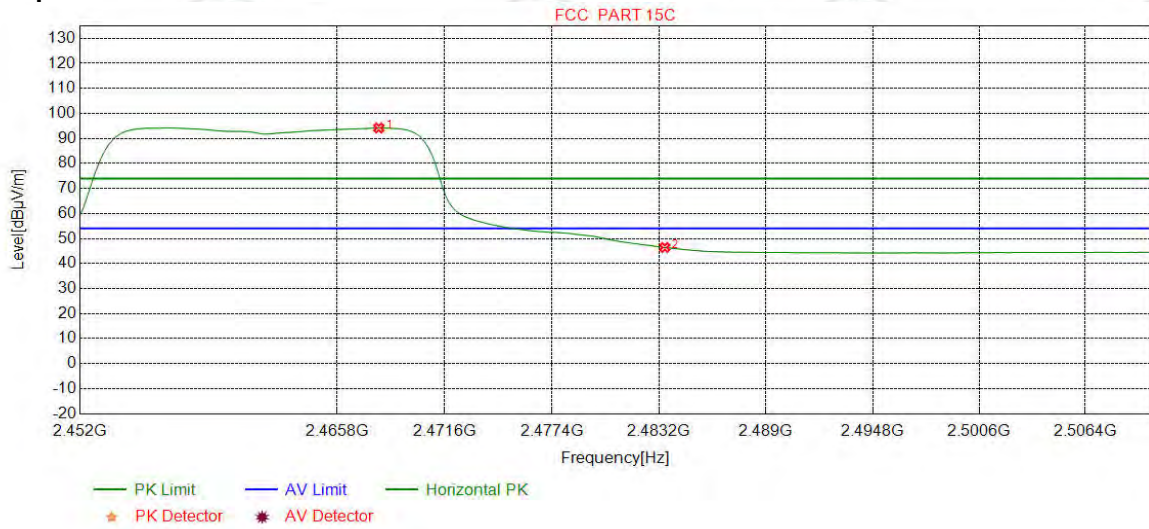
Test Graph



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	2467.2441	32.35	13.45	-42.40	98.21	101.61	74.00	-27.61	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	55.18	58.54	74.00	15.46	Pass	Vertical

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

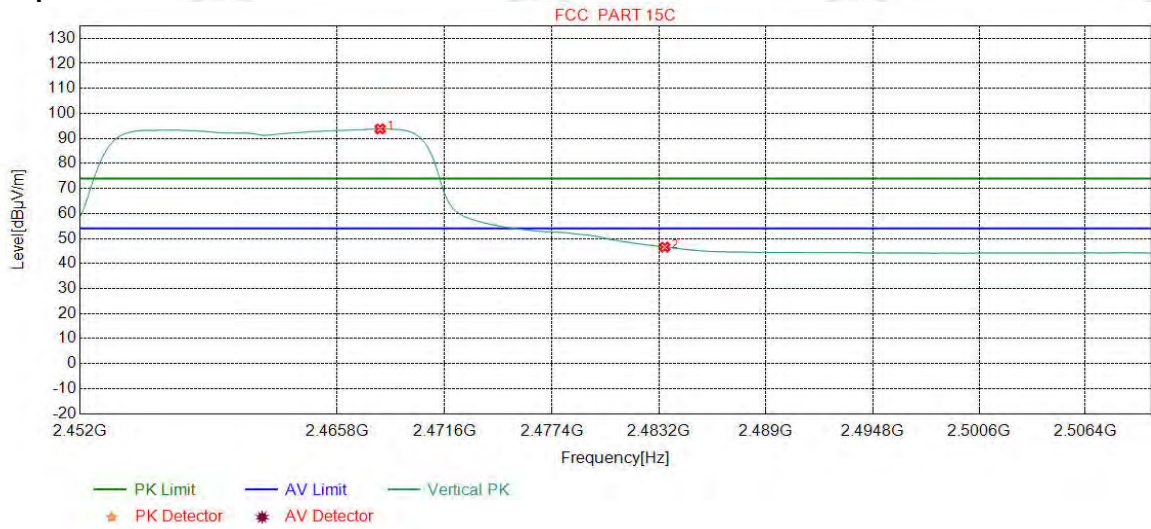
Test Graph



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	2468.0426	32.36	13.45	-42.41	90.78	94.18	54.00	-40.18	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	43.04	46.40	54.00	7.60	Pass	Horizontal

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

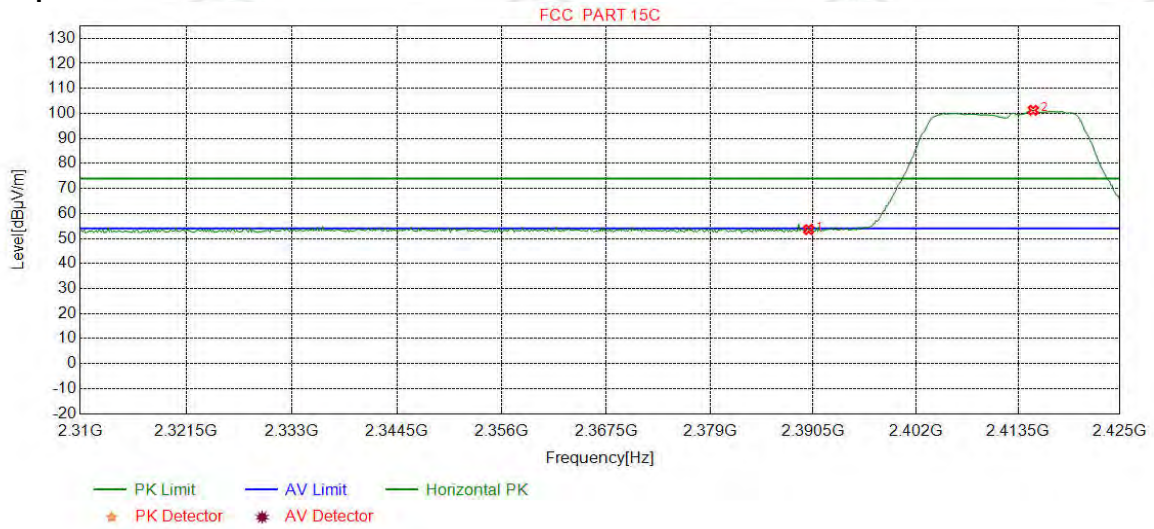
Test Graph



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	2468.1151	32.36	13.45	-42.41	90.41	93.81	54.00	-39.81	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	43.20	46.56	54.00	7.44	Pass	Vertical

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

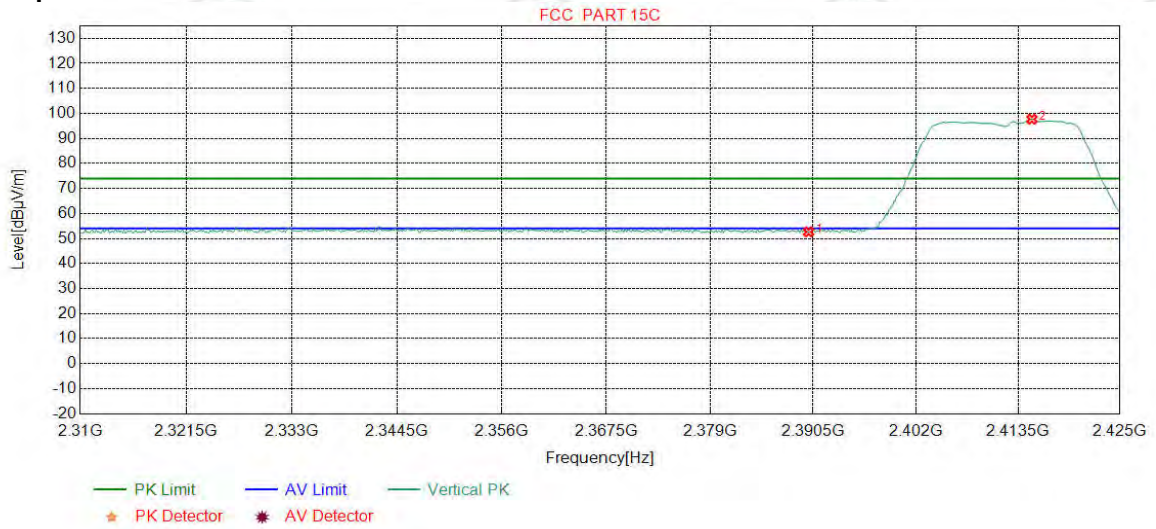
Test Graph



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	50.39	53.57	74.00	20.43	Pass	Horizontal
2	2415.2128	32.28	13.37	-42.43	98.04	101.26	74.00	-27.26	Pass	Horizontal

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

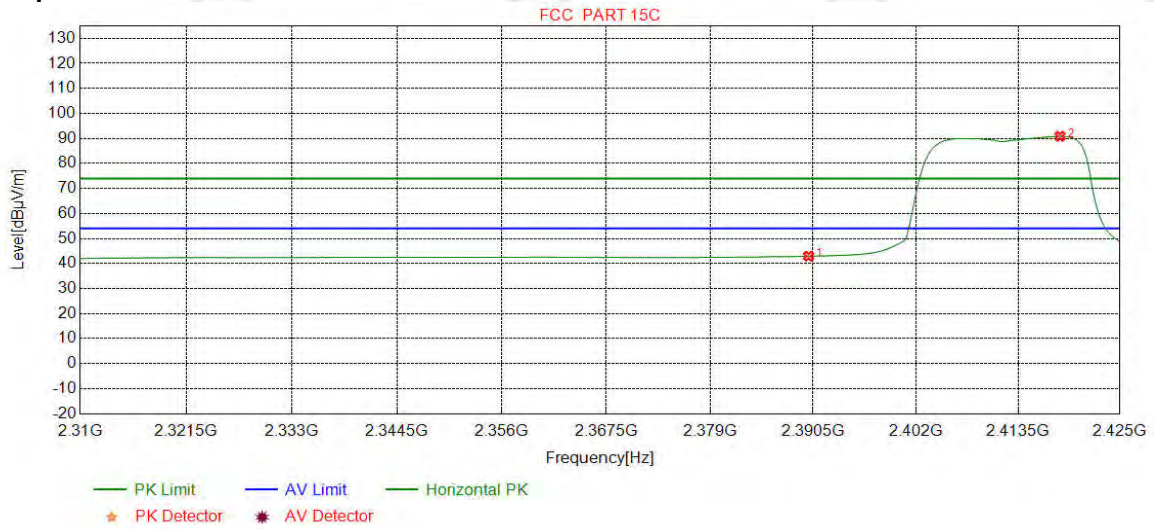
Test Graph



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	49.47	52.65	74.00	21.35	Pass	Vertical
2	2415.0688	32.28	13.37	-42.43	94.45	97.67	74.00	-23.67	Pass	Vertical

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

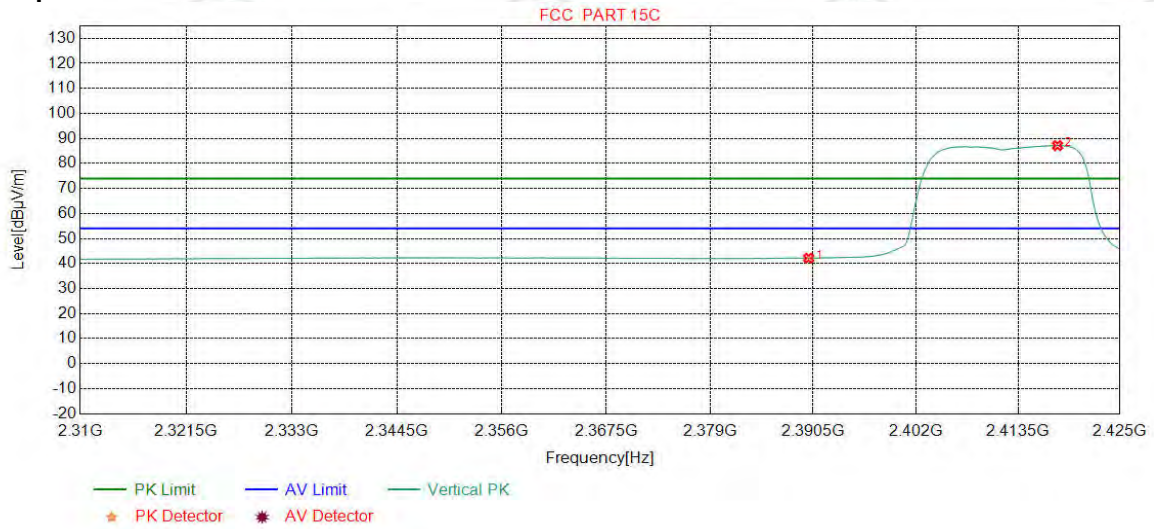
Test Graph



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	39.76	42.94	54.00	11.06	Pass	Horizontal
2	2418.2353	32.29	13.38	-42.43	87.63	90.87	54.00	-36.87	Pass	Horizontal

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

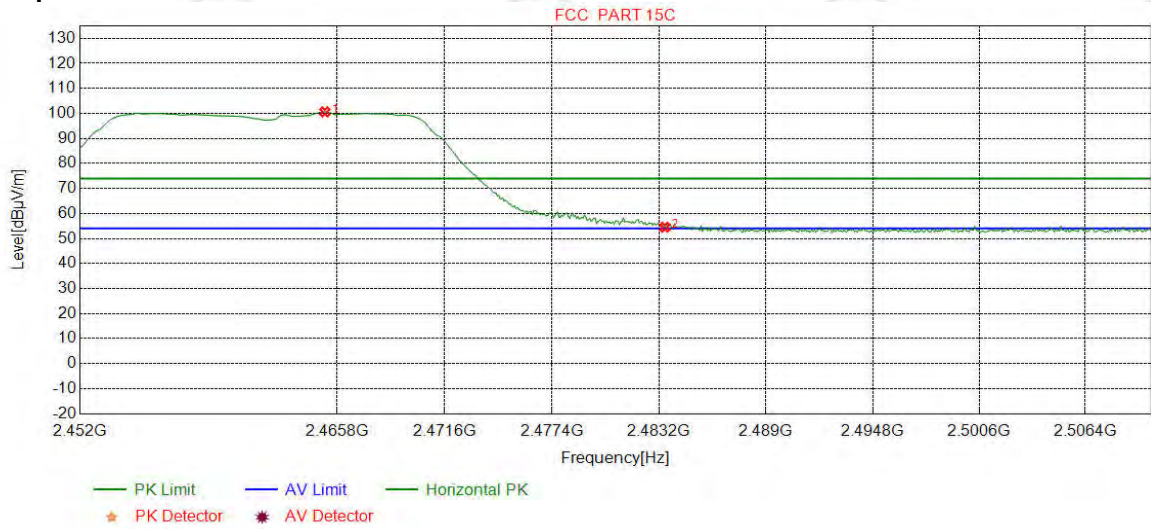
Test Graph



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	38.99	42.17	54.00	11.83	Pass	Vertical
2	2417.9474	32.29	13.38	-42.43	83.90	87.14	54.00	-33.14	Pass	Vertical

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

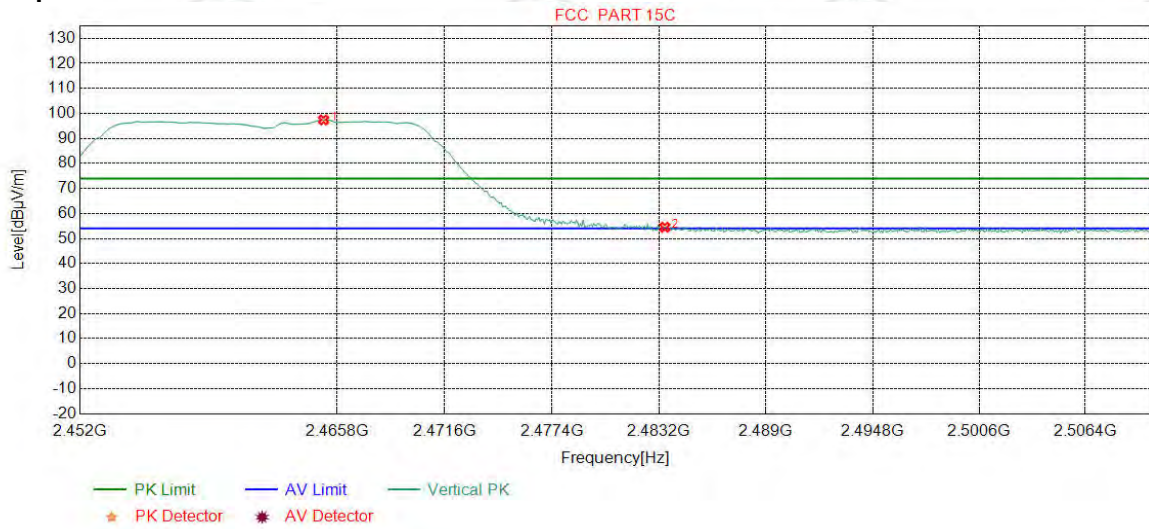
Test Graph



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	2465.1389	32.35	13.46	-42.40	97.19	100.60	74.00	-26.60	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	51.15	54.51	74.00	19.49	Pass	Horizontal

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

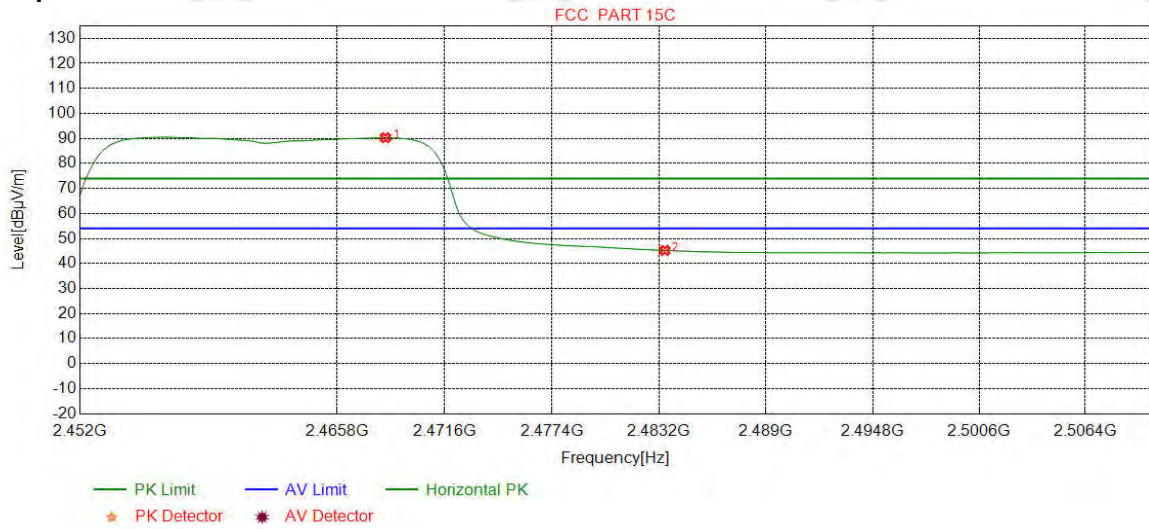
Test Graph



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	2465.0663	32.35	13.46	-42.40	94.00	97.41	74.00	-23.41	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	51.15	54.51	74.00	19.49	Pass	Vertical

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

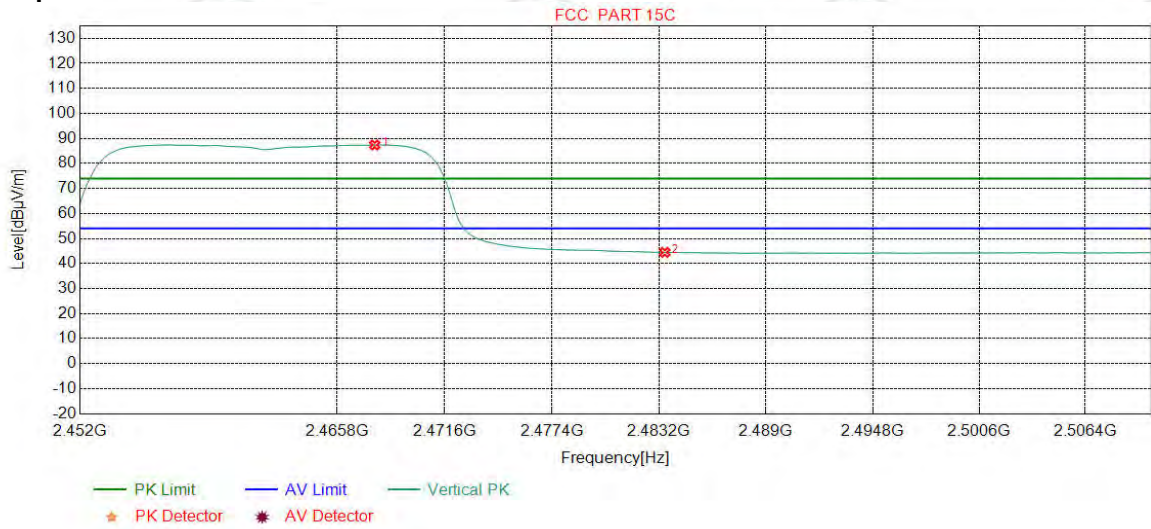
Test Graph



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	2468.4055	32.36	13.45	-42.41	86.86	90.26	54.00	-36.26	Pass	Horizontal
2	2483.5000	32.38	13.38	-42.40	41.88	45.24	54.00	8.76	Pass	Horizontal

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

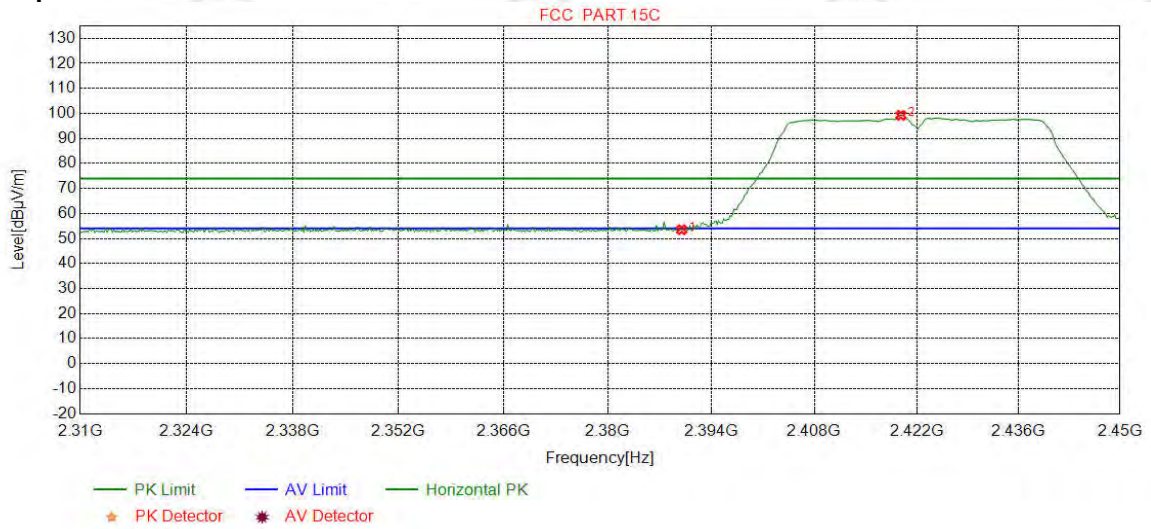
Test Graph



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	2467.8248	32.35	13.45	-42.40	83.97	87.37	54.00	-33.37	Pass	Vertical
2	2483.5000	32.38	13.38	-42.40	41.10	44.46	54.00	9.54	Pass	Vertical

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

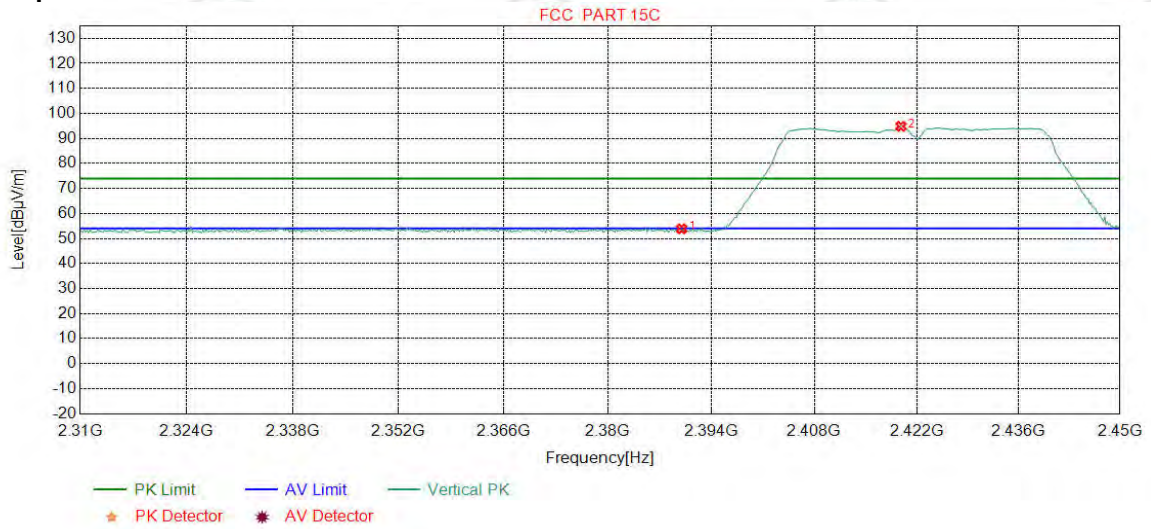
Test Graph



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	50.34	53.52	74.00	20.48	Pass	Horizontal
2	2419.8623	32.29	13.39	-42.43	95.99	99.24	74.00	-25.24	Pass	Horizontal

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

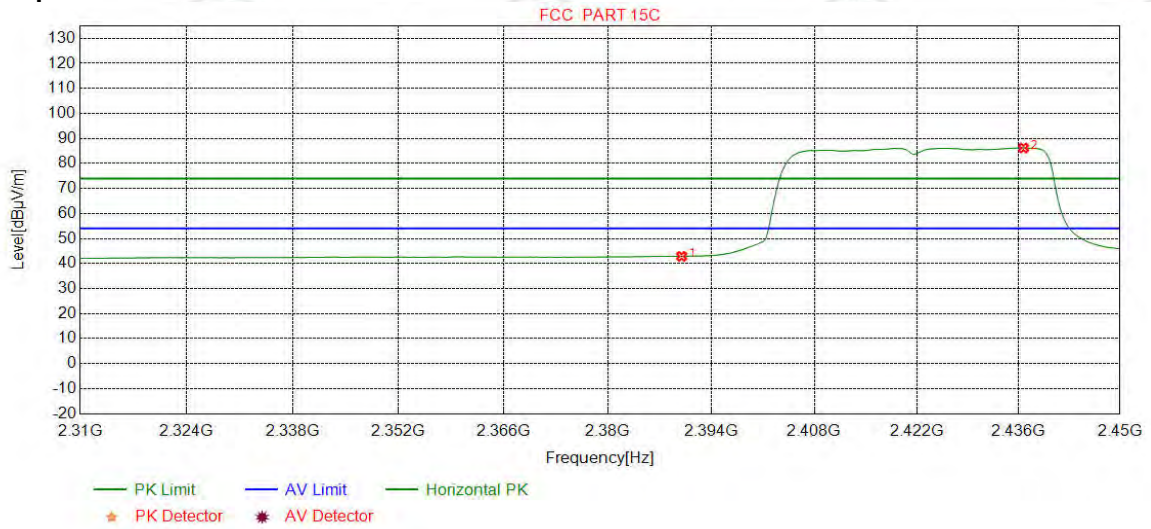
Test Graph



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	50.67	53.85	74.00	20.15	Pass	Vertical
2	2419.8623	32.29	13.39	-42.43	91.60	94.85	74.00	-20.85	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	39.69	42.87	54.00	11.13	Pass	Horizontal
2	2436.6834	32.31	13.47	-42.42	82.82	86.18	54.00	-32.18	Pass	Horizontal