

TEST REPORT

FCC ID: 2AKPYCWV100

Product: TiTAN VR

Model No.: CWV-100

Additional Model No.: CWV-101, CWV-102, CWV-103

Trade Mark: N/A

Report No.: TCT170925E038

Issued Date: Oct. 30, 2017

Issued for:

TiTANplatform Corp.

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Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

Product:	Ti TAN VR
Model No.:	CWV-100
Additional Model:	CWV-101, CWV-102, CWV-103
Trade Mark:	N/A
Applicant:	Ti TANplatform Corp.
Address:	7th floor, Hyunik Bldg., 146 Teheran-ro P.O. Box 06236, Gangnam-gu, Seoul, 06236 South Korea
Manufacturer:	Shenzhen Sunchip Technology Co., Ltd
Address:	2nd-3rd Floor, Building 4, Fuan Industry Area Phase 2, Dayang Development Zone, Fuyong, Baoan, Shenzhen.
Date of Test:	Sep. 26, 2017 – Oct. 27, 2017
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 KDB 558074 D01 DTS Meas Guidance v04

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:



Brews Xu

Date:

Oct. 27, 2017

Reviewed By:



Joe Zhou

Date:

Oct. 30, 2017

Approved By:



Tomsin

Date:

Oct. 30, 2017

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	Ti TAN VR
Model No.:	CWV-100
Additional Model:	CWV-101, CWV-102, CWV-103
Trade Mark:	N/A
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(HT20))
Channel Separation:	5MHz
Number of Channel:	11 for 802.11b/802.11g/802.11n(HT20)
Modulation Technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation Technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	6.5Mbps, 13Mbps, 19.5Mbps, 26Mbps, 39Mbps, 52Mbps, 58.5Mbps, 65Mbps
Antenna Type:	Internal Antenna
Antenna Gain:	4.24dBi
Power Supply:	Adapter Information: Model: FLD0710-5.0V2.50A Input: AC 100-240V, 50/60Hz, 0.3A Output: DC5.0V, 2.5A
Remark:	All models above are identical in interior structure, electrical circuits and components, and just model names are different for the marketing requirement.

Operation Frequency each of channel For 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		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

802.11b/802.11g/802.11n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 98.46%)
The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.	

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting with modulation
1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive. 2. According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup” 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with	

maximum power setting for all modulations.

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^{\circ}\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The WIFI antenna is internal antenna which permanently attached, and the best case gain of the antenna is 4.24dBi.	
	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><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></table>	Frequency range (MHz)	Limit (dBuV)		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 (dBuV)														
	Quasi-peak	Average													
0.15-0.5	66 to 56*	56 to 46*													
0.5-5	56	46													
5-30	60	50													
Test Setup:	Reference Plane Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m														
Test Mode:	Charging + transmitting with modulation														
Test Procedure:	1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. 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: 2013 on conducted measurement.														
Test Result:	PASS														

6.2.2. Test Instruments

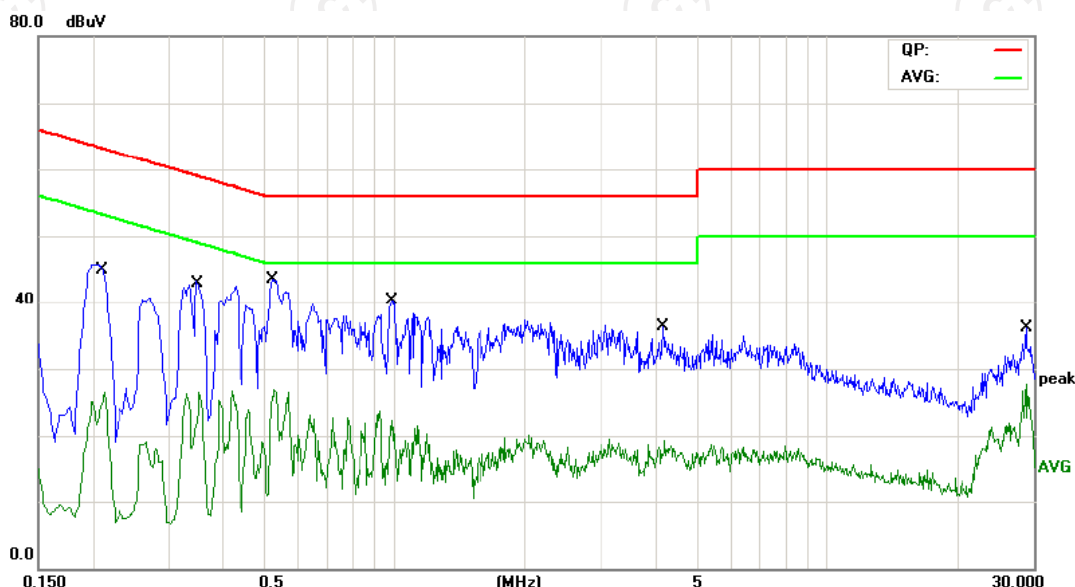
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2 Phase: **L1** Temperature: 25 (C)
 Limit: FCC Part 15B Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 55 %

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBμV	dB	dBμV	dBμV	dB		
1		0.2129	34.28	11.44	45.72	63.09	-17.37	QP	
2		0.2129	15.10	11.44	26.54	53.09	-26.55	AVG	
3		0.3524	31.88	11.37	43.25	58.90	-15.65	QP	
4		0.3524	15.03	11.37	26.40	48.90	-22.50	AVG	
5	*	0.5233	32.22	11.29	43.51	56.00	-12.49	QP	
6		0.5233	15.54	11.29	26.83	46.00	-19.17	AVG	
7		0.9868	29.20	11.20	40.40	56.00	-15.60	QP	
8		0.9868	12.50	11.20	23.70	46.00	-22.30	AVG	
9		4.2225	25.39	10.89	36.28	56.00	-19.72	QP	
10		4.2225	8.31	10.89	19.20	46.00	-26.80	AVG	
11		28.7744	25.50	10.64	36.14	60.00	-23.86	QP	
12		28.7744	17.01	10.64	27.65	50.00	-22.35	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

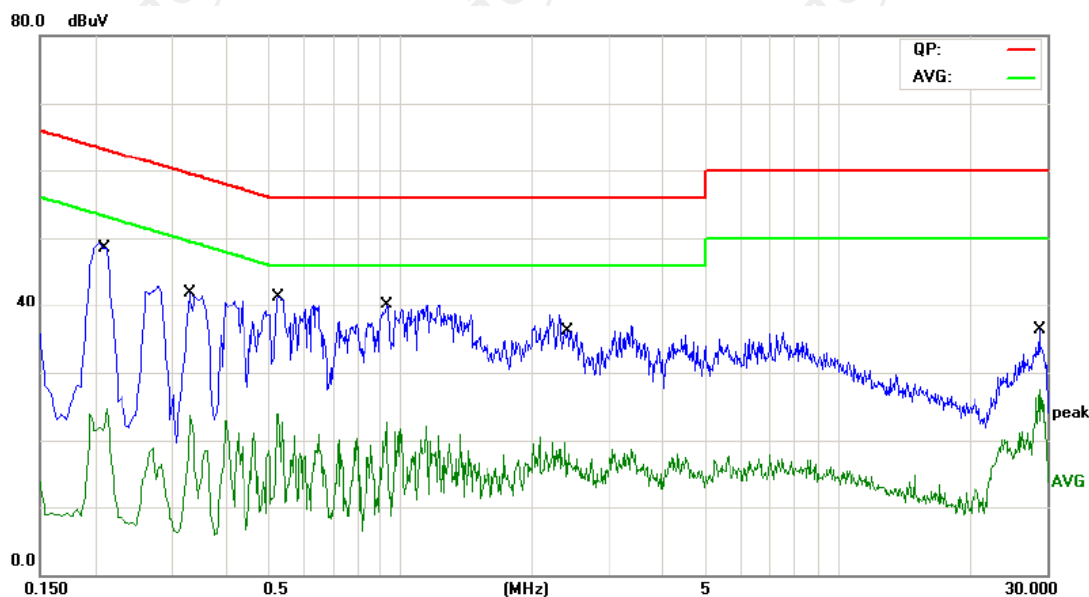
Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site Chamber #2

Phase: **N**

Temperature: 25 (C)

Limit: FCC Part 15B Class B Conduction(QP)

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.2130	37.87	11.44	49.31	63.08	-13.77	QP	
2		0.2130	13.26	11.44	24.70	53.08	-28.38	AVG	
3		0.3300	30.45	11.38	41.83	59.45	-17.62	QP	
4		0.3300	12.36	11.38	23.74	49.45	-25.71	AVG	
5		0.5234	30.07	11.29	41.36	56.00	-14.64	QP	
6		0.5234	12.69	11.29	23.98	46.00	-22.02	AVG	
7		0.9329	28.86	11.20	40.06	56.00	-15.94	QP	
8		0.9329	11.59	11.20	22.79	46.00	-23.21	AVG	
9		2.3729	27.05	11.55	38.60	56.00	-17.40	QP	
10		2.3729	8.25	11.55	19.80	46.00	-26.20	AVG	
11		28.7745	25.76	10.64	36.40	60.00	-23.60	QP	
12		28.7745	16.86	10.64	27.50	50.00	-22.50	AVG	

Note:

Freq. = Emission frequency in MHz

Reading level (dBμV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

Limit (dBμV) = Limit stated in standard

Margin (dB) = Measurement (dBμV) – Limits (dBμV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

6.2.4. Maximum Conducted (Average) Output Power

6.2.5. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB 558074
Limit:	30dBm
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Measure the conducted output power and record the results in the test report.
Test Result:	PASS

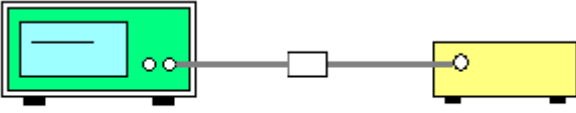
6.2.6. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074
Limit:	>500kHz
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

6.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4. Power Spectral Density

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB 558074
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows Measurement Procedure 10.3 Method AVGPS of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. Video bandwidth VBW $\geq 3 \times \text{RBW}$. Set the span to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

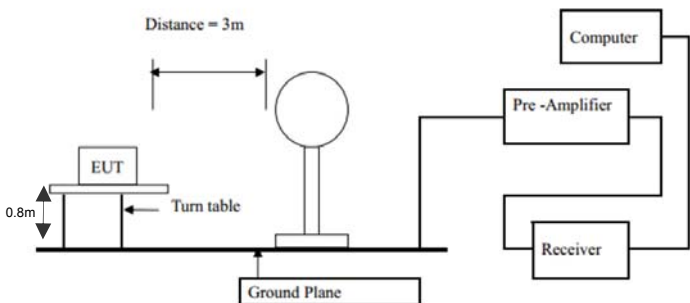
6.5.2. Test Instruments

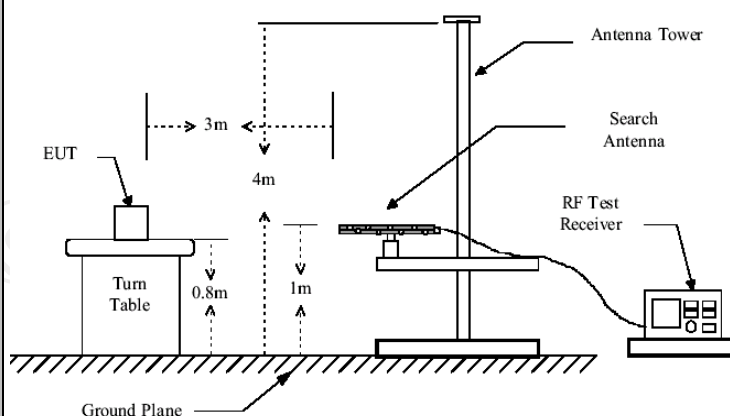
RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

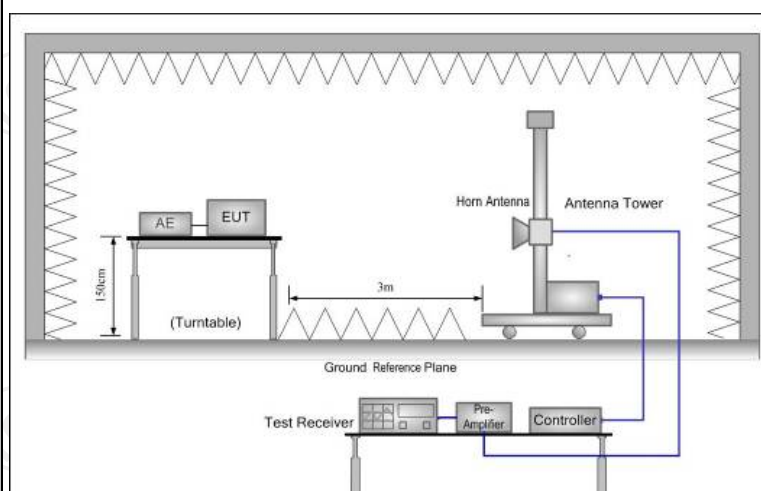
6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10: 2013			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Transmitting mode with modulation			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Remark
	0.009-0.490	2400/F(KHz)	300	Quasi-peak Value
	0.490-1.705	24000/F(KHz)	30	Quasi-peak Value
	1.705-30	30	30	Quasi-peak Value
	30-88	100	3	Quasi-peak Value
Test setup:	88-216	150	3	Quasi-peak Value
	216-960	200	3	Quasi-peak Value
	Above 960	500	3	Quasi-peak Value
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
	For radiated emissions below 30MHz			
				
	30MHz to 1GHz			



Above 1GHz



Test Procedure:

- For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
- For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for

	receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. 3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 5. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test results:	PASS

6.6.2. Test Instruments

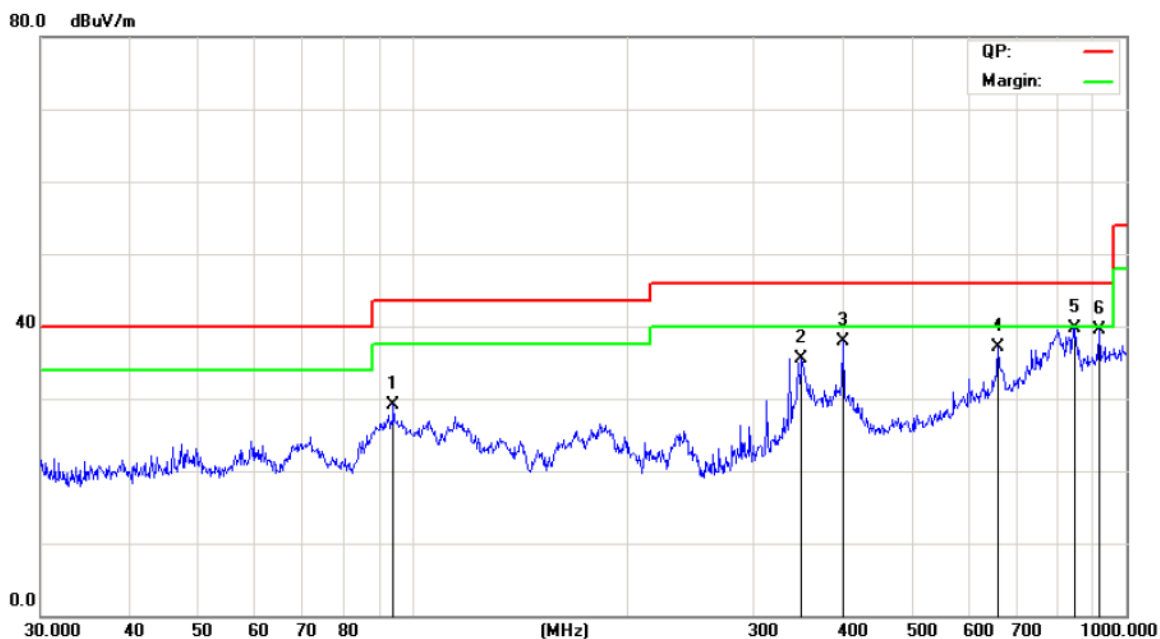
Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
Coax cable (9KHz-1GHz)	TCT	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	TCT	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6.3. Test Data

Please refer to following diagram for individual
Below 1GHz

Horizontal:



Site Chamber #2

Polarization: **Horizontal**

Temperature: 25 (C)

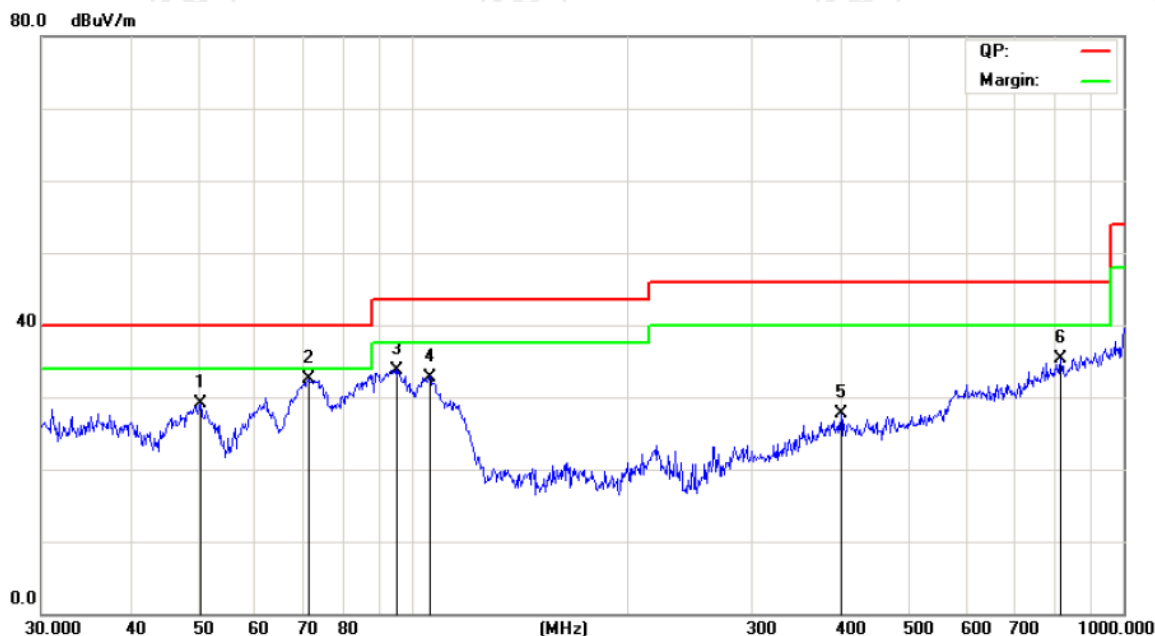
Limit: FCC Part 15B Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		93.7685	36.35	-7.31	29.04	43.50	-14.46	QP	
2		350.4768	38.82	-3.33	35.49	46.00	-10.51	QP	
3		400.4319	39.36	-1.47	37.89	46.00	-8.11	QP	
4		661.1505	34.02	3.01	37.03	46.00	-8.97	QP	
5	*	845.0878	32.98	6.79	39.77	46.00	-6.23	QP	
6		916.0687	31.60	7.99	39.59	46.00	-6.41	QP	

Vertical:



Site Chamber #2

Polarization: **Vertical**

Temperature: 25 (C)

Limit: FCC Part 15B Class B 3M Radiation

Power: AC 120V/60Hz

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		50.2324	35.93	-6.78	29.15	40.00	-10.85	QP	
2	*	71.3300	43.51	-11.10	32.41	40.00	-7.59	QP	
3		95.0930	40.92	-7.12	33.80	43.50	-9.70	QP	
4		105.6415	39.68	-6.88	32.80	43.50	-10.70	QP	
5		400.4319	29.14	-1.47	27.67	46.00	-18.33	QP	
6		815.9678	28.91	6.39	35.30	46.00	-10.70	QP	

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low) and all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (High channel and 802.11b) was submitted only.

Test Result of Radiated Spurious at Band edges

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2310	H	45.23	-4.2	41.03	74.00	54.00
2377.38	H	47.77	-4.1	43.67	74.00	54.00
2390	H	52.63	-3.94	48.69	74.00	54.00
2310	V	43.58	-4.2	39.38	74.00	54.00
2377.38	V	53.29	-4.1	49.19	74.00	54.00
2390	V	55.24	-3.94	51.3	74.00	54.00

Modulation Type: 802.11b

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2483.5	H	49.04	-3.60	45.44	74.00	54.00
2487.09	H	47.46	-3.50	43.96	74.00	54.00
2500	H	44.36	-3.34	41.02	74.00	54.00
2483.5	V	53.11	-3.60	49.51	74.00	54.00
2487.09	V	46.62	-3.50	43.12	74.00	54.00
2500	V	42.14	-3.34	38.8	74.00	54.00

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2310	H	45.28	-4.20	41.08	74.00	54.00
2388.96	H	47.52	-4.10	43.42	74.00	54.00
2390	H	52.67	-3.94	48.73	74.00	54.00
2310	V	43.53	-4.20	39.33	74.00	54.00
2388.96	V	53.48	-4.10	49.38	74.00	54.00
2390	V	55.72	-3.94	51.78	74.00	54.00

Modulation Type: 802.11g

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2483.5	H	50.63	-3.60	47.03	74.00	54.00
2487.59	H	47.48	-3.50	43.98	74.00	54.00
2500	H	44.49	-3.34	41.15	74.00	54.00
2483.5	V	53.84	-3.60	50.24	74.00	54.00
2487.59	V	46.75	-3.50	43.25	74.00	54.00
2500	V	41.54	-3.34	38.2	74.00	54.00

Modulation Type: 802.11n(20MHz)

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2310	H	44.65	-4.20	40.45	74.00	54.00
2388.01	H	47.87	-4.10	43.77	74.00	54.00
2390	H	52.84	-3.94	48.9	74.00	54.00
2310	V	43.43	-4.20	39.23	74.00	54.00
2388.01	V	53.32	-4.10	49.22	74.00	54.00
2390	V	55.16	-3.94	51.22	74.00	54.00

Modulation Type: 802.11n(20MHz)

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	Correction Factor (dB/m)	Peak Final Emission Level	Peak limit (dBμV/m)	AV limit (dBμV/m)
2483.5	H	50.27	-3.60	46.67	74.00	54.00
2392.55	H	47.47	-3.50	43.97	74.00	54.00
2500	H	44.32	-3.34	40.98	74.00	54.00
2483.5	V	54.16	-3.60	50.56	74.00	54.00
2392.55	V	46.78	-3.50	43.28	74.00	54.00
2500	V	42.01	-3.34	38.67	74.00	54.00

Note:

1. Peak Final Emission Level=Peak Reading + Correction Factor;
2. Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Above 1GHz

Modulation Type: 802.11b

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	50.15	---	0.75	50.9	---	74	54	-3.1
7236	H	41.61	---	9.87	51.48	---	74	54	-2.52
---	H	---	---	---	---	---	---	---	---
4824	V	49.57	---	0.75	50.32	---	74	54	-3.68
7236	V	42.23	---	9.87	52.1	---	74	54	-1.9
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	49.17	---	0.97	50.14	---	74	54	-3.86
7311	H	41.43	---	9.83	51.26	---	74	54	-2.74
---	H	---	---	---	---	---	---	---	---
4874	V	48.83	---	0.97	49.8	---	74	54	-4.2
7311	V	41.39	---	9.83	51.22	---	74	54	-2.78
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	49.26	---	1.18	50.44	---	74	54	-3.56
7386	H	40.85	---	10.07	50.92	---	74	54	-3.08
---	H	---	---	---	---	---	---	---	---
4924	V	47.67	---	1.18	48.85	---	74	54	-5.15
7386	V	41.73	---	10.07	51.8	---	74	54	-2.2
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown "---" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Modulation Type: 802.11g

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	50.06	---	0.75	50.81	---	74	54	-3.19
7236	H	41.97	---	9.87	51.84	---	74	54	-2.16
---	H	---	---	---	---	---	---	---	---
4824	V	49.35	---	0.75	50.1	---	74	54	-3.9
7236	V	42.75	---	9.87	52.62	---	74	54	-1.38
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	49.16	---	0.97	50.13	---	74	54	-3.87
7311	H	41.47	---	9.83	51.3	---	74	54	-2.7
---	H	---	---	---	---	---	---	---	---
4874	V	48.68	---	0.97	49.65	---	74	54	-4.35
7311	V	41.48	---	9.83	51.31	---	74	54	-2.69
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	49.37	---	1.18	50.55	---	74	54	-3.45
7386	H	40.31	---	10.07	50.38	---	74	54	-3.62
---	H	---	---	---	---	---	---	---	---
4924	V	47.27	---	1.18	48.45	---	74	54	-5.55
7386	V	41.49	---	10.07	51.56	---	74	54	-2.44
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Modulation Type: 802.11n (HT20)

Low channel: 2412 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4824	H	50.23	---	0.75	50.98	---	74	54	-3.02
7236	H	41.84	---	9.87	51.71	---	74	54	-2.29
---	H	---	---	---	---	---	---	---	---
4824	V	49.48	---	0.75	50.23	---	74	54	-3.77
7236	V	42.55	---	9.87	52.42	---	74	54	-1.58
---	V	---	---	---	---	---	---	---	---

Middle channel: 2437MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4874	H	49.12	---	0.97	50.09	---	74	54	-3.91
7311	H	41.48	---	9.83	51.31	---	74	54	-2.69
---	H	---	---	---	---	---	---	---	---
4874	V	49.02	---	0.97	49.99	---	74	54	-4.01
7311	V	41.35	---	9.83	51.18	---	74	54	-2.82
---	V	---	---	---	---	---	---	---	---

High channel: 2462 MHz

Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
4924	H	49.37	---	1.18	50.55	---	74	54	-3.45
7386	H	40.78	---	10.07	50.85	---	74	54	-3.15
---	H	---	---	---	---	---	---	---	---
4924	V	48.76	---	1.18	49.94	---	74	54	-4.06
7386	V	41.69	---	10.07	51.76	---	74	54	-2.24
---	V	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 25GHz.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

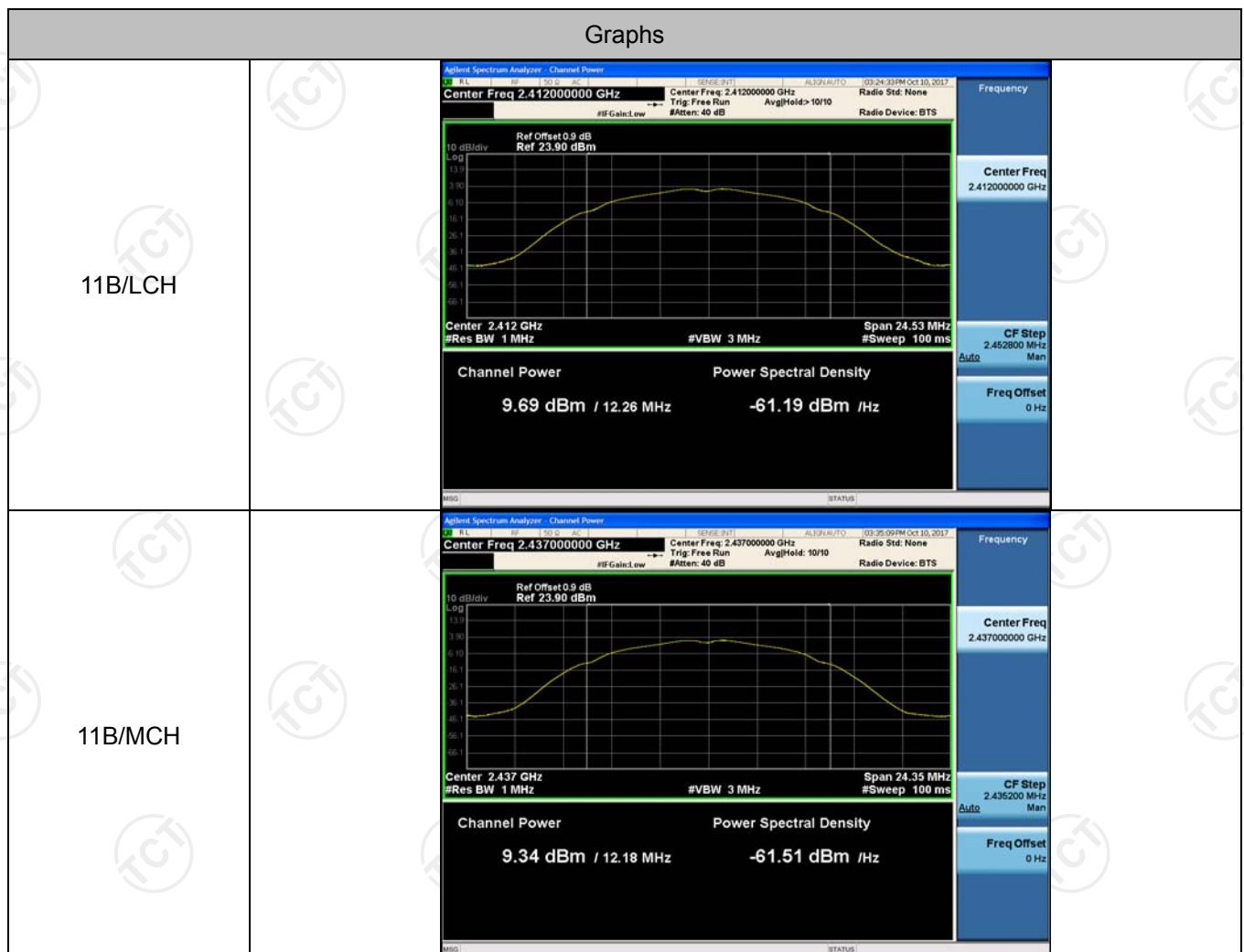
Appendix A: Test Result of Conducted Test

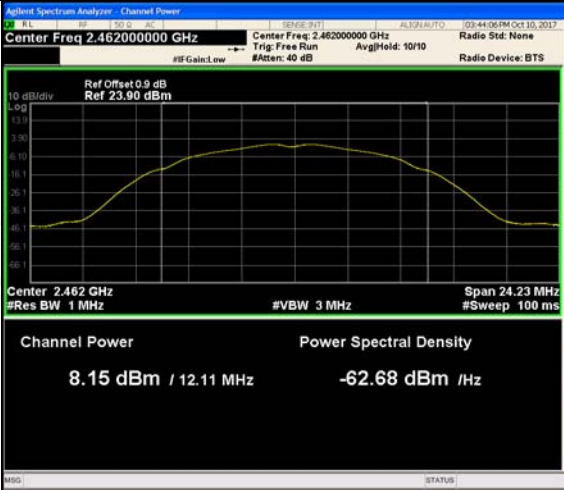
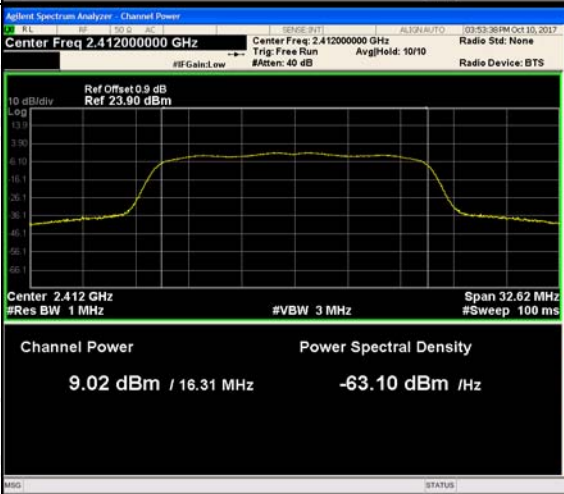
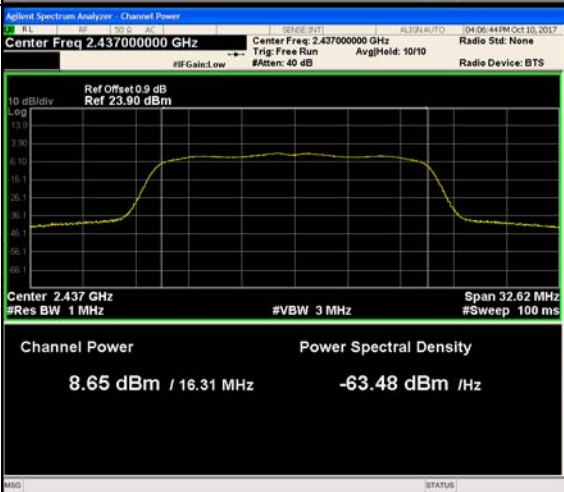
Conducted Average Output Power

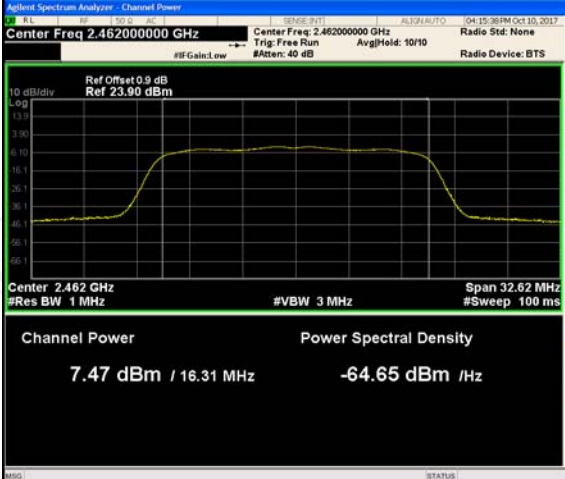
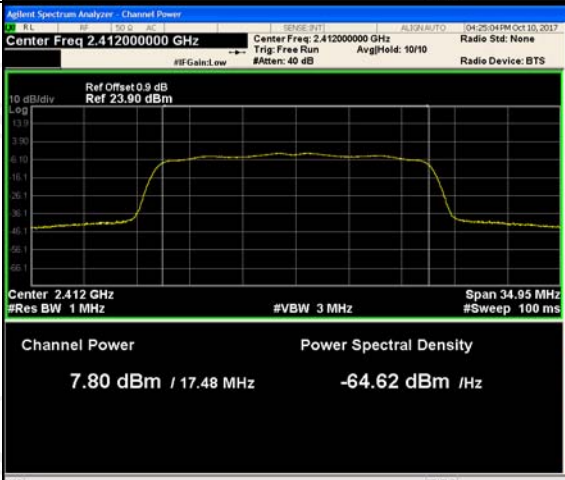
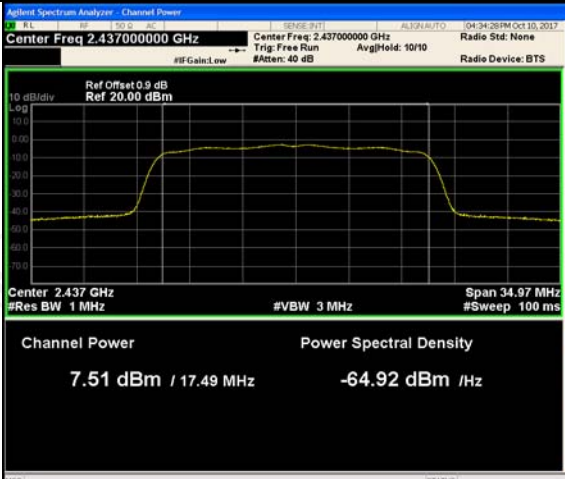
Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	9.69	PASS
11B	MCH	9.34	PASS
11B	HCH	8.15	PASS
11G	LCH	9.02	PASS
11G	MCH	8.65	PASS
11G	HCH	7.47	PASS
11N20SISO	LCH	7.8	PASS
11N20SISO	MCH	7.51	PASS
11N20SISO	HCH	6.47	PASS

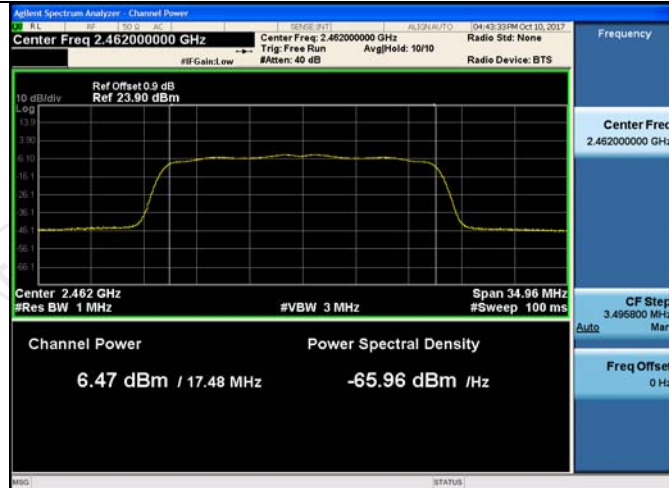
Test Graph



11B/HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.46200000 GHz Ref Offset 0.9 dB Ref 23.90 dBm Channel Power: 8.15 dBm / 12.11 MHz Power Spectral Density: -62.68 dBm / Hz Center Freq: 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 24.23 MHz #Sweep 100 ms Frequency: 2.46200000 GHz CF Step: 3.262000 MHz Freq Offset: 0 Hz
11G/LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.41200000 GHz Ref Offset 0.9 dB Ref 23.90 dBm Channel Power: 9.02 dBm / 16.31 MHz Power Spectral Density: -63.10 dBm / Hz Center Freq: 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 32.62 MHz #Sweep 100 ms Frequency: 2.41200000 GHz CF Step: 3.262000 MHz Freq Offset: 0 Hz
11G/MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.43700000 GHz Ref Offset 0.9 dB Ref 23.90 dBm Channel Power: 8.65 dBm / 16.31 MHz Power Spectral Density: -63.48 dBm / Hz Center Freq: 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 32.62 MHz #Sweep 100 ms Frequency: 2.43700000 GHz CF Step: 3.262000 MHz Freq Offset: 0 Hz

11G/HCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.46200000 GHz Ref Offset 0.9 dB Ref 23.90 dBm Center 2.462 GHz #Res BW 1 MHz #VBW 3 MHz Span 32.62 MHz #Sweep 100 ms Channel Power 7.47 dBm / 16.31 MHz Power Spectral Density -64.65 dBm / Hz Frequency Center Freq 2.46200000 GHz CF Step 3.261600 MHz Freq Offset 0 Hz
11N20SISO/LCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.41200000 GHz Ref Offset 0.9 dB Ref 23.90 dBm Center 2.412 GHz #Res BW 1 MHz #VBW 3 MHz Span 34.65 MHz #Sweep 100 ms Channel Power 7.80 dBm / 17.48 MHz Power Spectral Density -64.62 dBm / Hz Frequency Center Freq 2.41200000 GHz CF Step 3.495400 MHz Freq Offset 0 Hz
11N20SISO/MCH	 Agilent Spectrum Analyzer - Channel Power Center Freq 2.43700000 GHz Ref Offset 0.9 dB Ref 20.00 dBm Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 34.97 MHz #Sweep 100 ms Channel Power 7.51 dBm / 17.49 MHz Power Spectral Density -64.92 dBm / Hz Frequency Center Freq 2.43700000 GHz CF Step 3.497200 MHz Freq Offset 0 Hz

11N20SISO/HCH

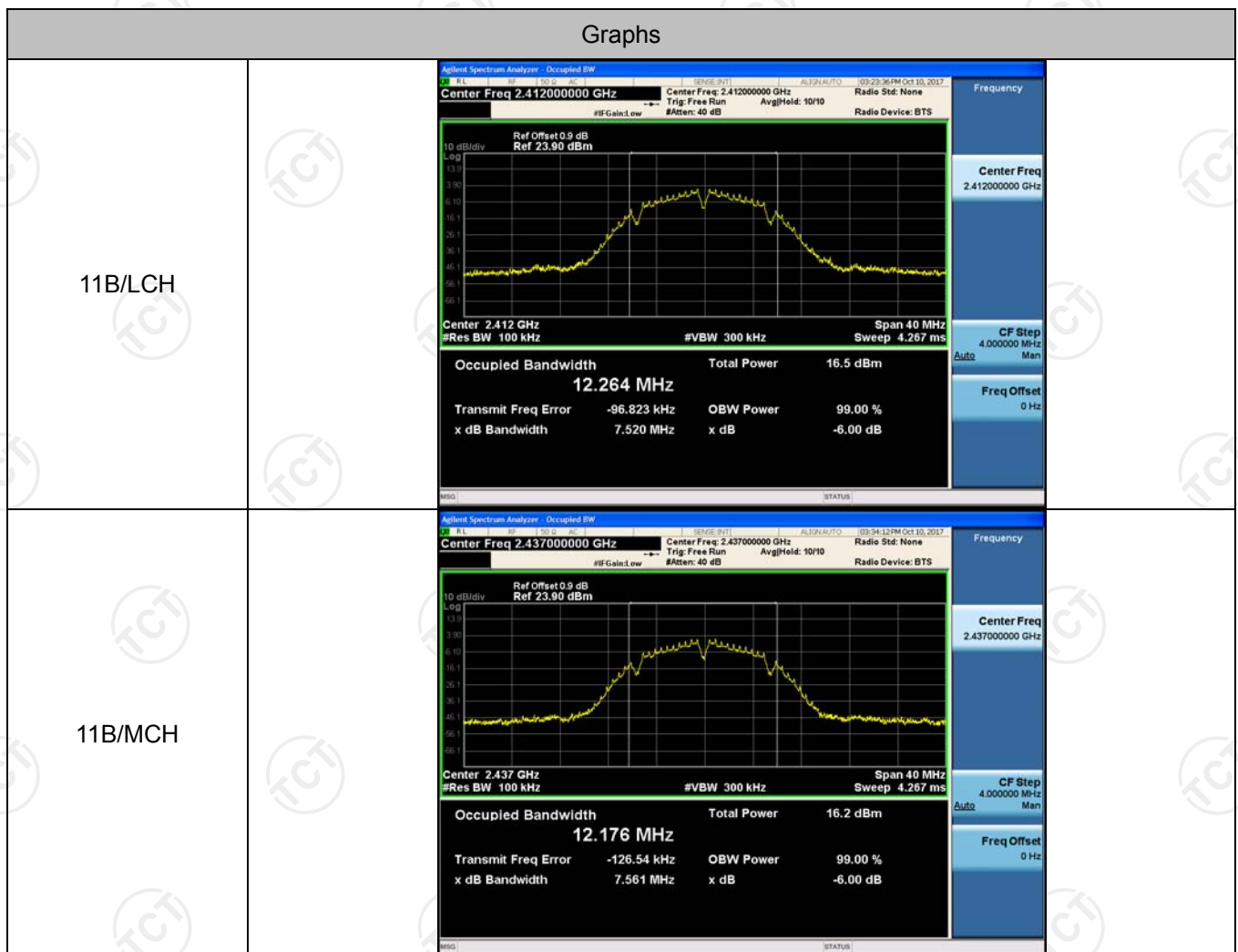


6dB Occupied Bandwidth

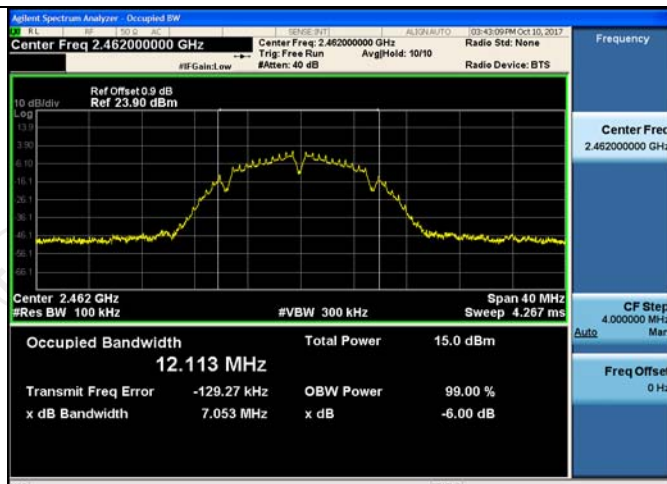
Result Table

Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	7.520	12.264	PASS
11B	MCH	7.561	12.176	PASS
11B	HCH	7.053	12.113	PASS
11G	LCH	15.03	16.310	PASS
11G	MCH	15.08	16.311	PASS
11G	HCH	15.05	16.308	PASS
11N20SISO	LCH	15.05	17.477	PASS
11N20SISO	MCH	15.02	17.486	PASS
11N20SISO	HCH	17.05	17.479	PASS

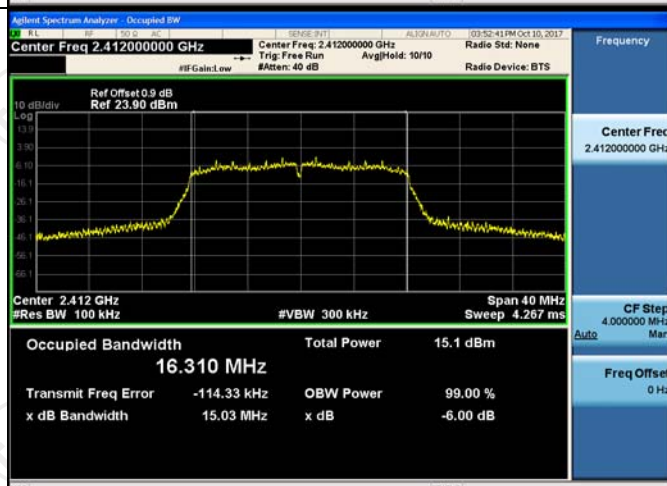
Test Graph



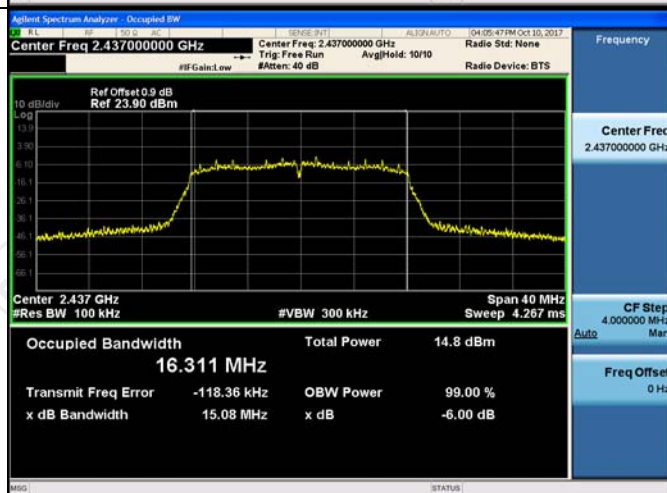
11B/HCH



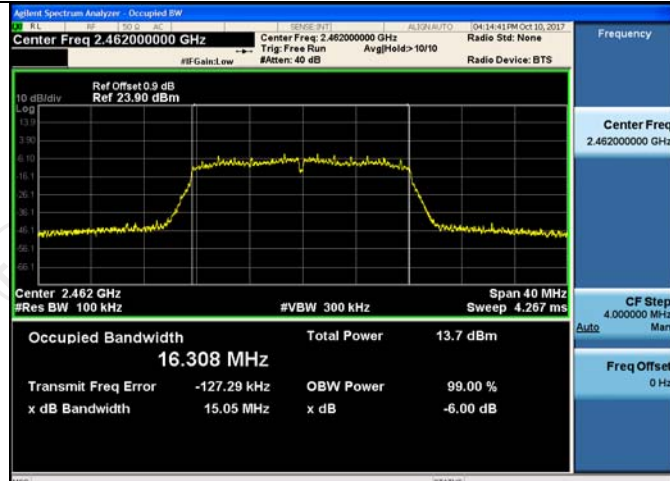
11G/LCH



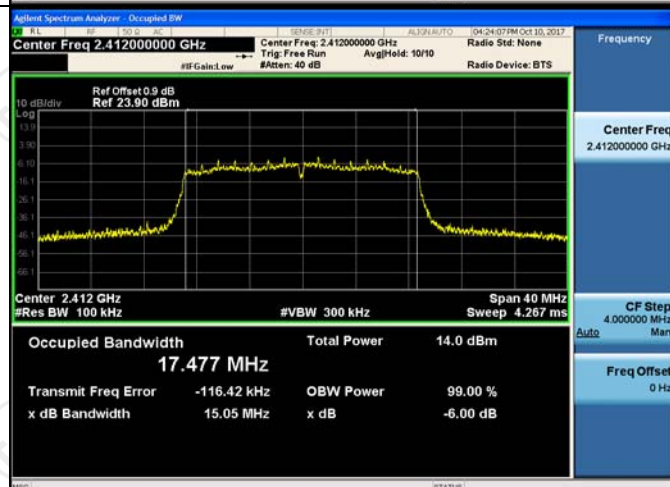
11G/MCH



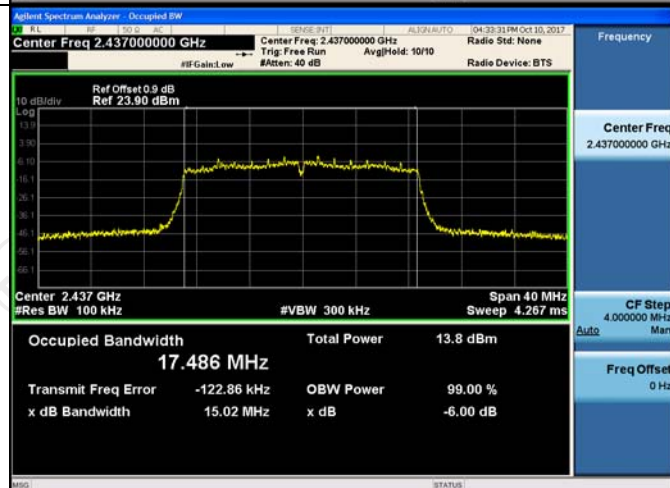
11G/HCH



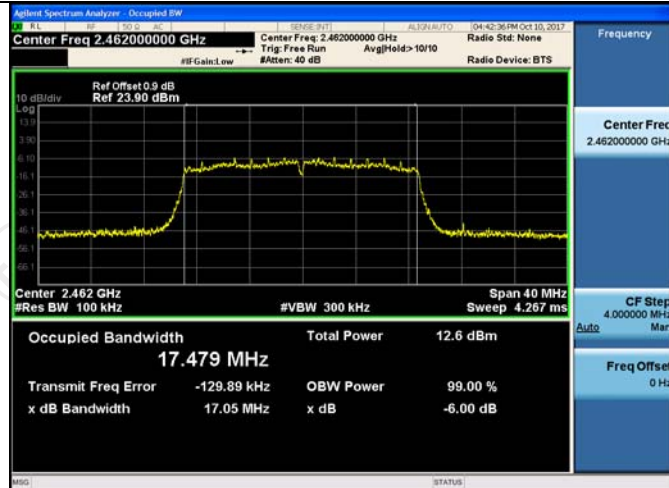
11N20SISO/LCH



11N20SISO/MCH



11N20SISO/HCH

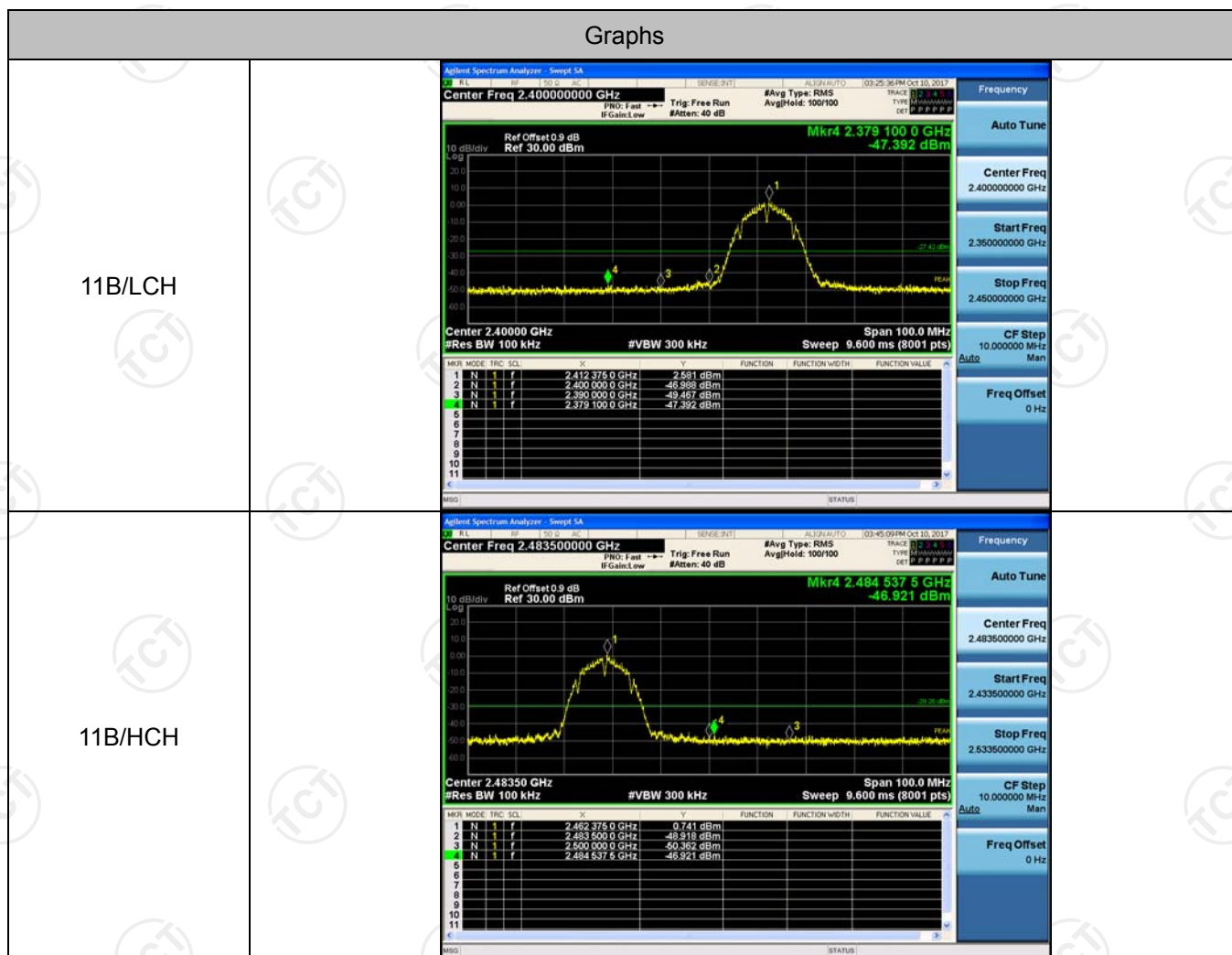


Band-edge for RF Conducted Emissions

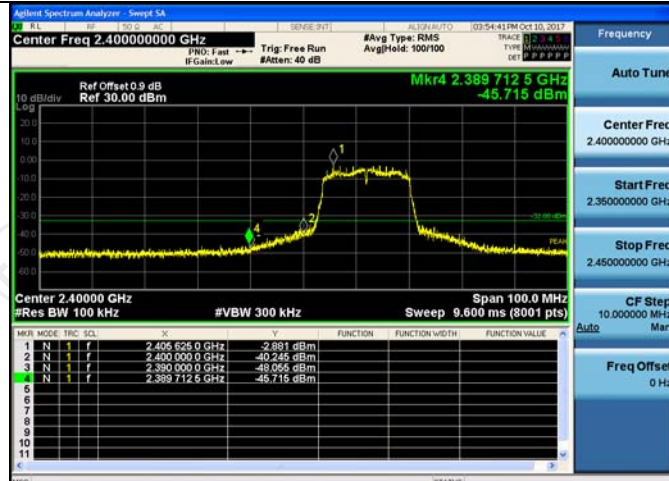
Result Table

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	2.581	-47.392	-27.42	PASS
11B	HCH	0.741	-46.921	-29.26	PASS
11G	LCH	-2.881	-45.715	-32.88	PASS
11G	HCH	-2.757	-46.819	-32.76	PASS
11N20SISO	LCH	-3.215	-46.931	-33.22	PASS
11N20SISO	HCH	-3.560	-46.463	-33.56	PASS

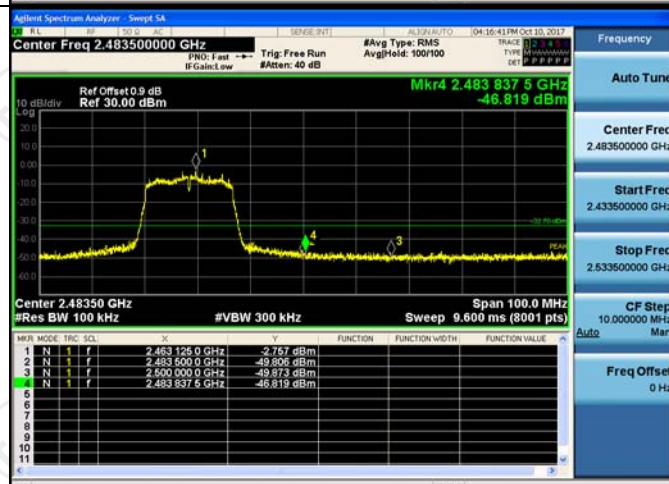
Test Graph



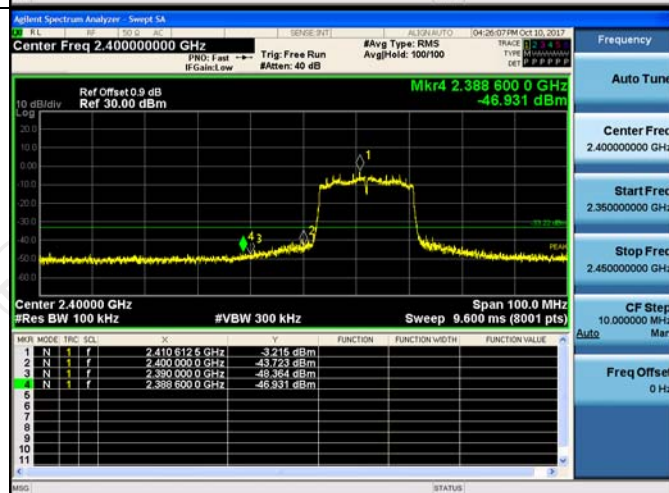
11G/LCH



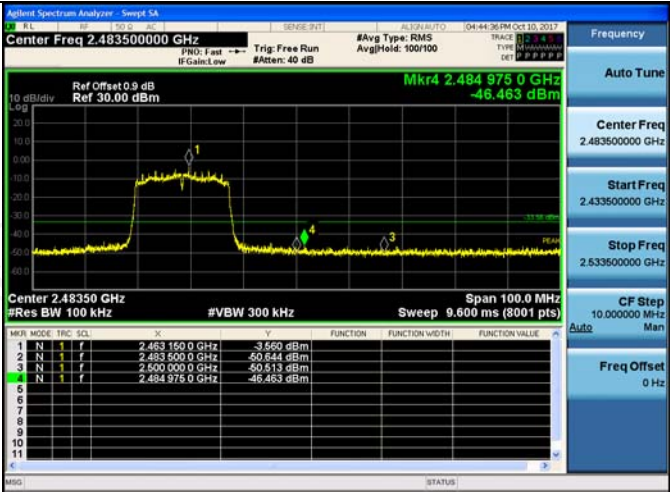
11G/HCH



11N20SISO/LCH



11N20SISO/HCH

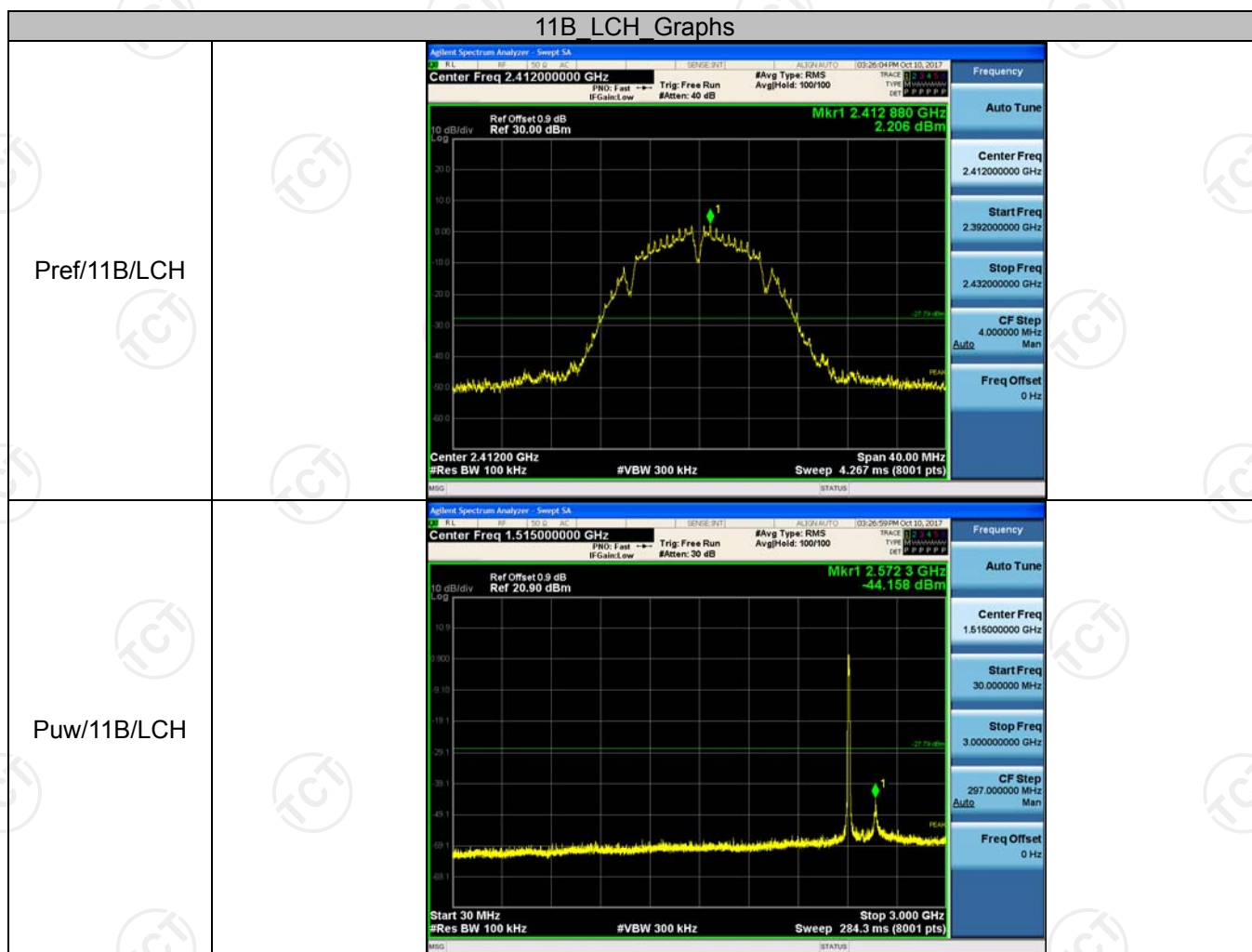


RF Conducted Spurious Emissions

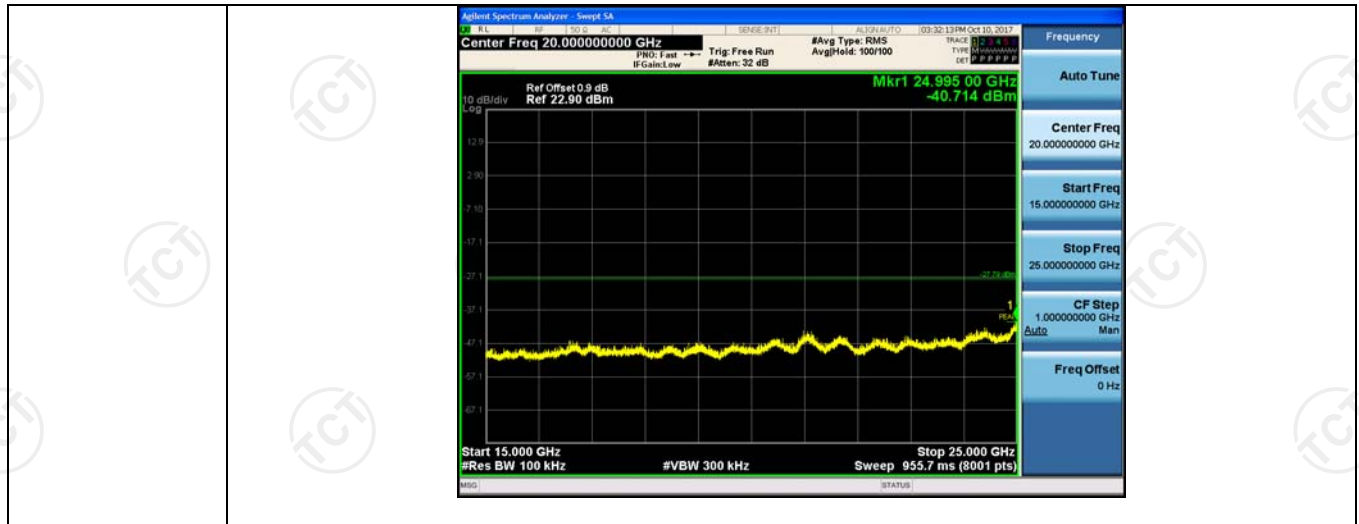
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	2.206	<Limit	PASS
11B	MCH	1.87	<Limit	PASS
11B	HCH	0.205	<Limit	PASS
11G	LCH	-2.636	<Limit	PASS
11G	MCH	-2.143	<Limit	PASS
11G	HCH	-3.23	<Limit	PASS
11N20SISO	LCH	-2.234	<Limit	PASS
11N20SISO	MCH	-3.242	<Limit	PASS
11N20SISO	HCH	-4.303	<Limit	PASS

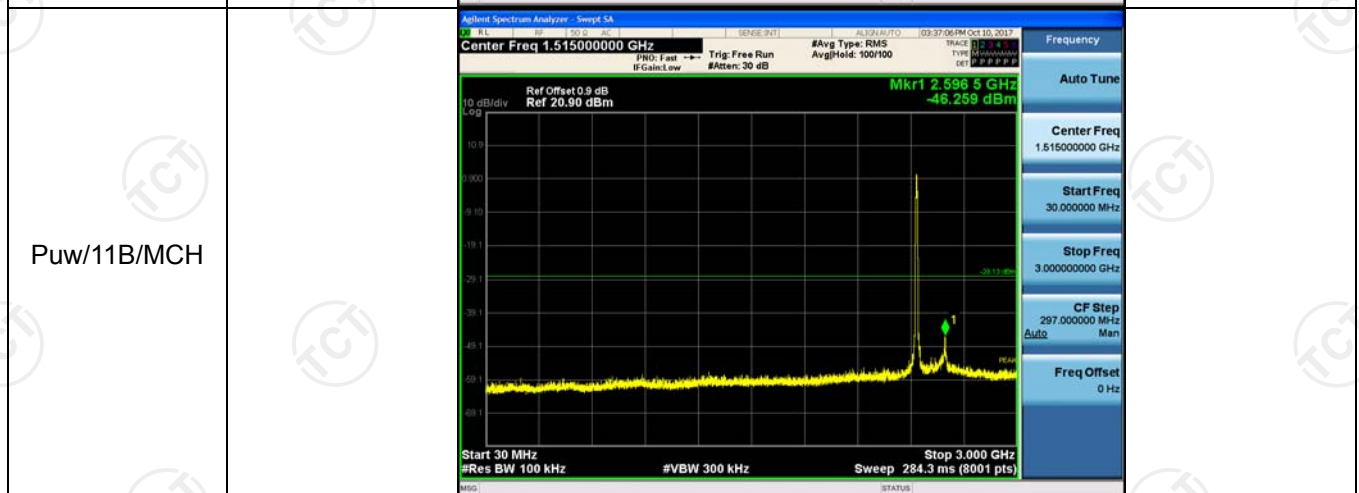
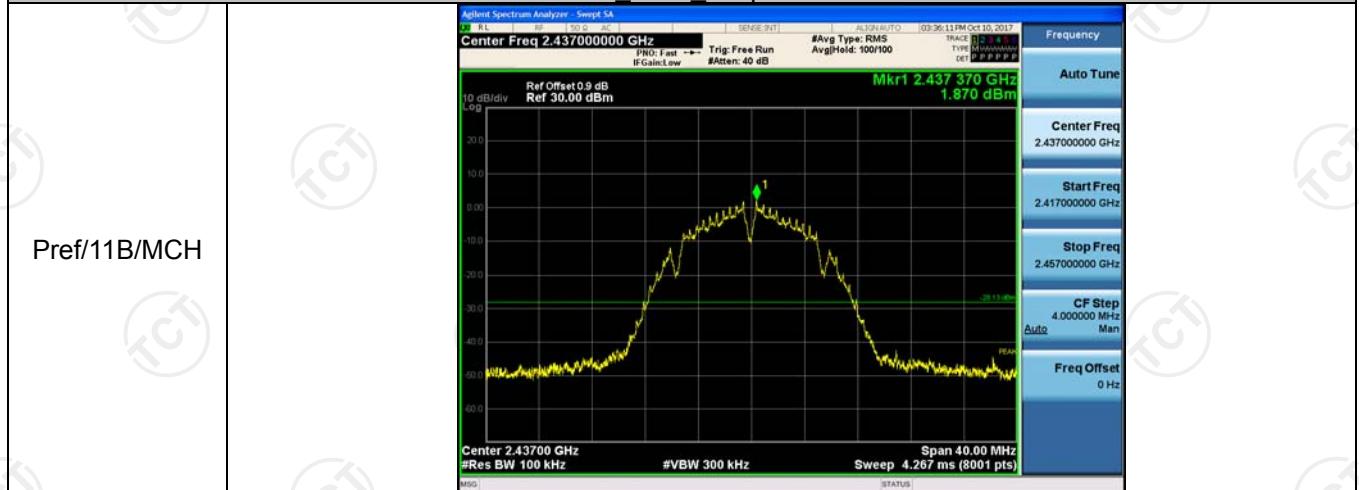
Test Graph

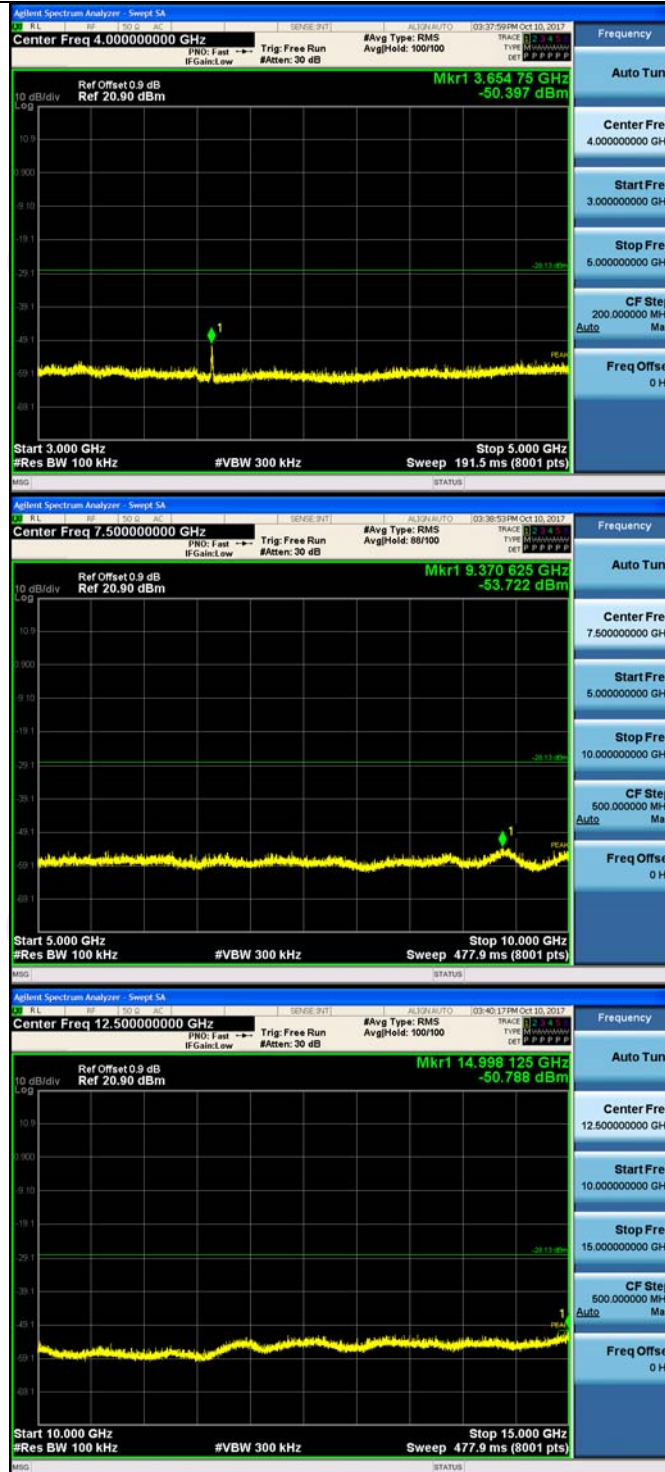


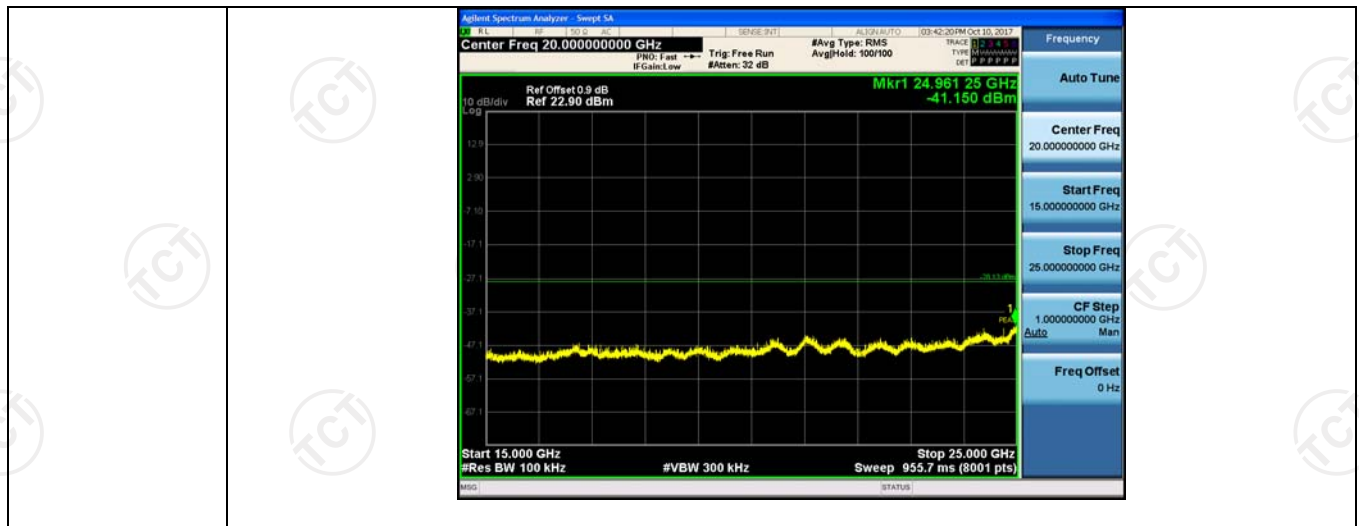




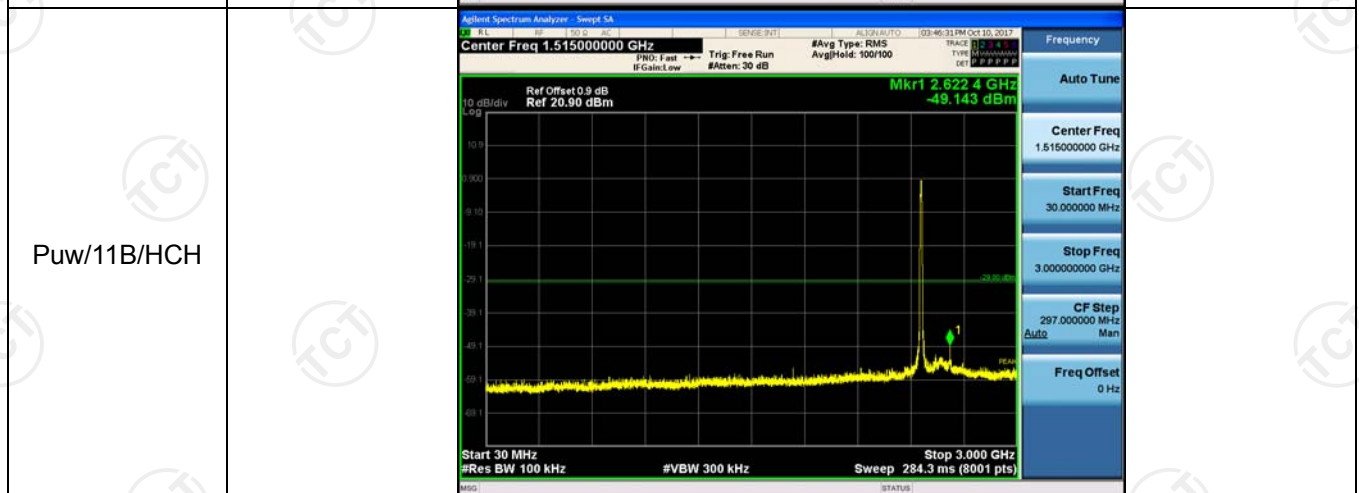
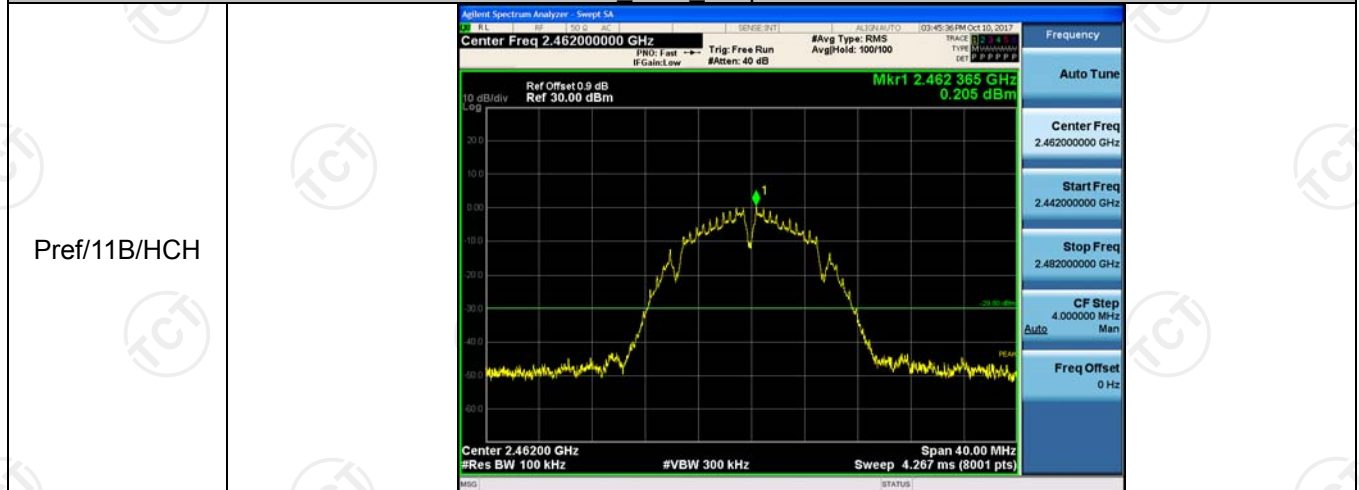
11B MCH Graphs

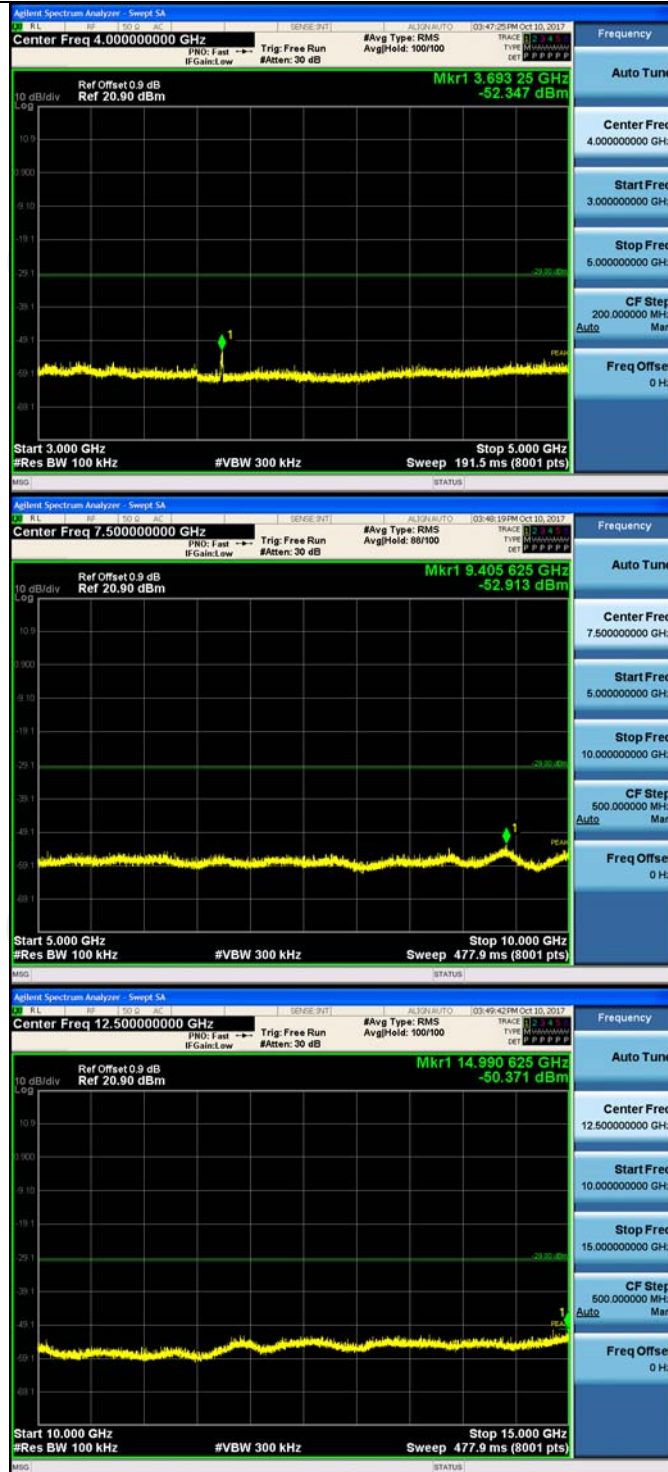


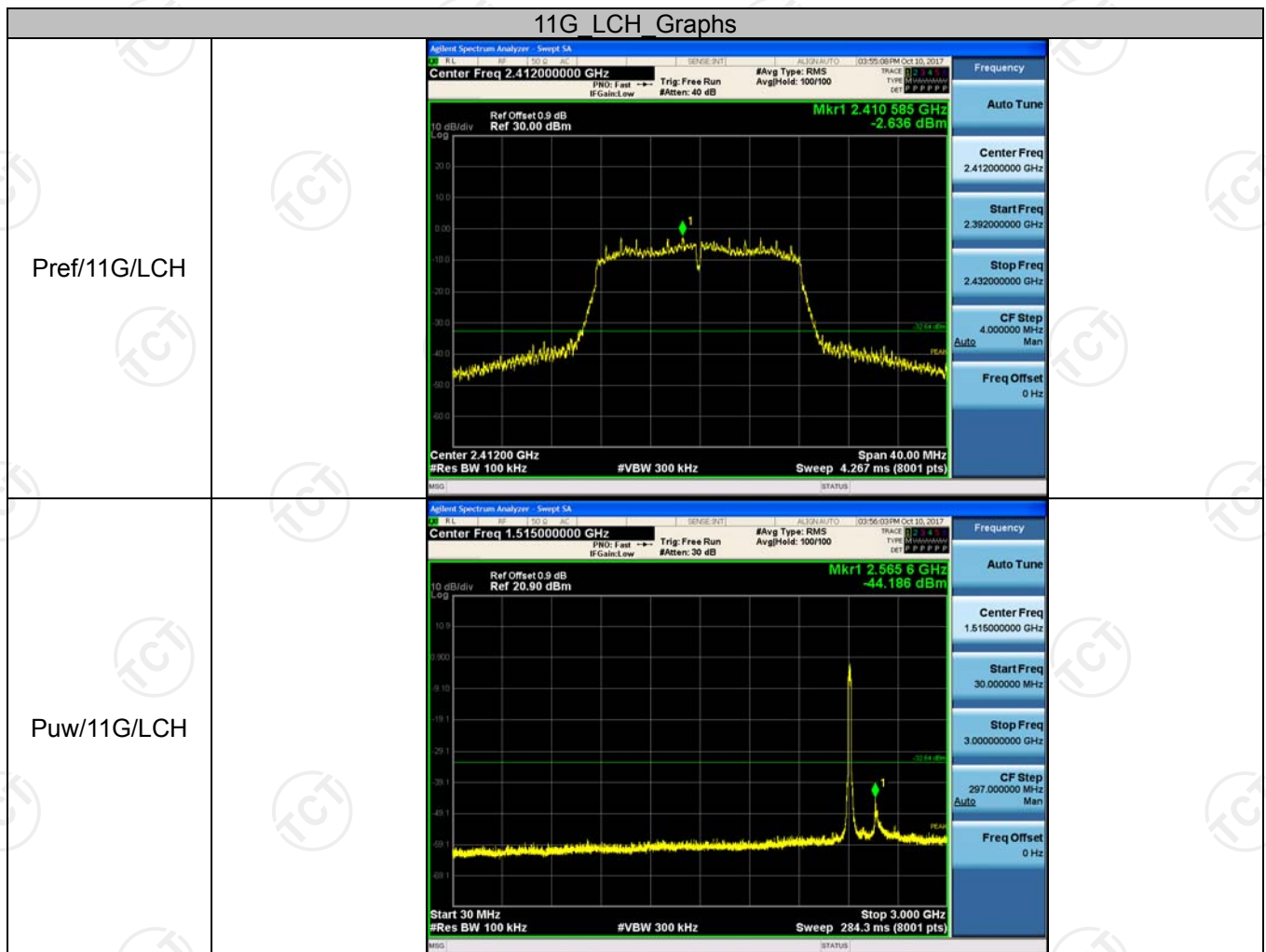
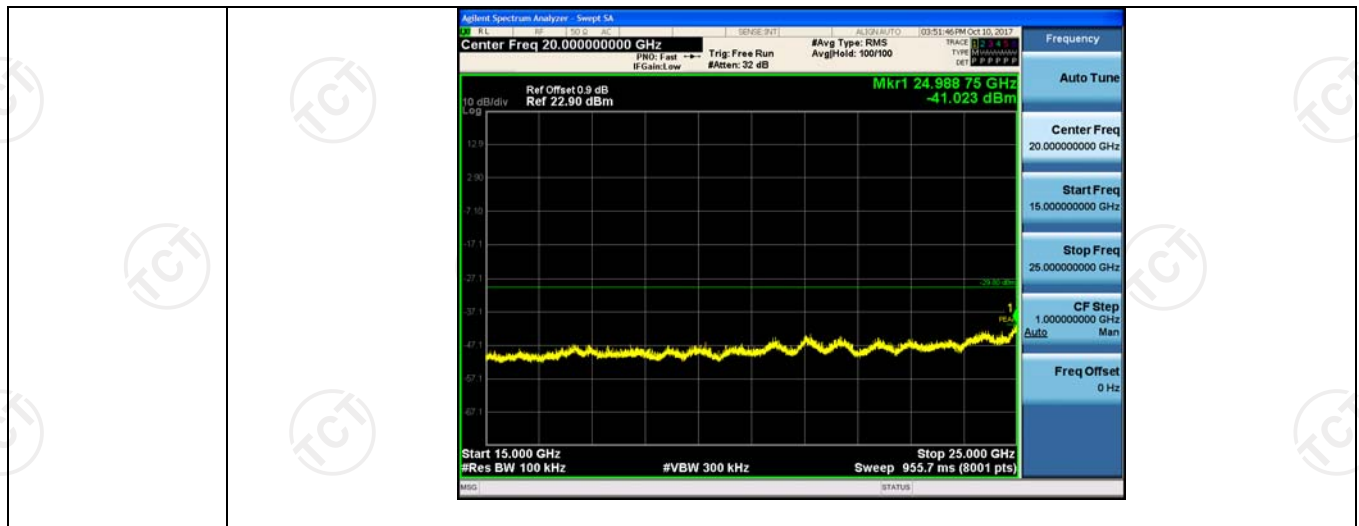


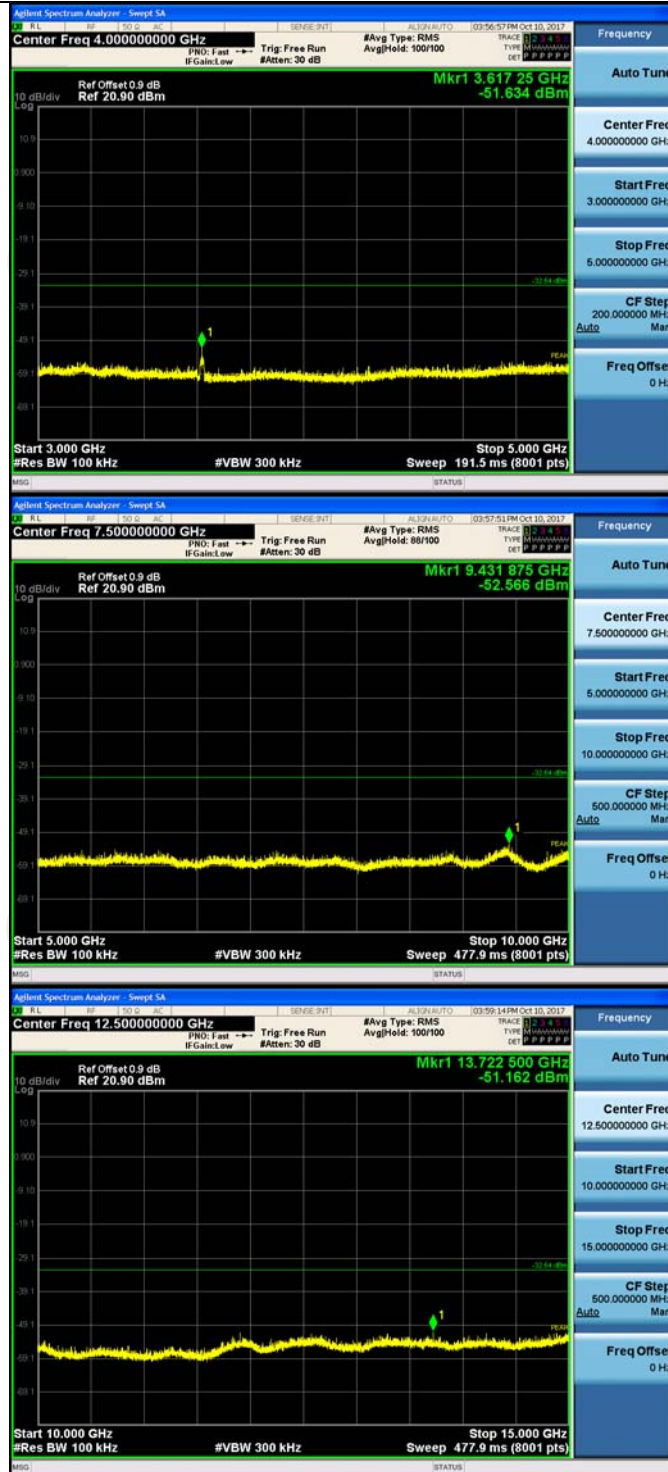


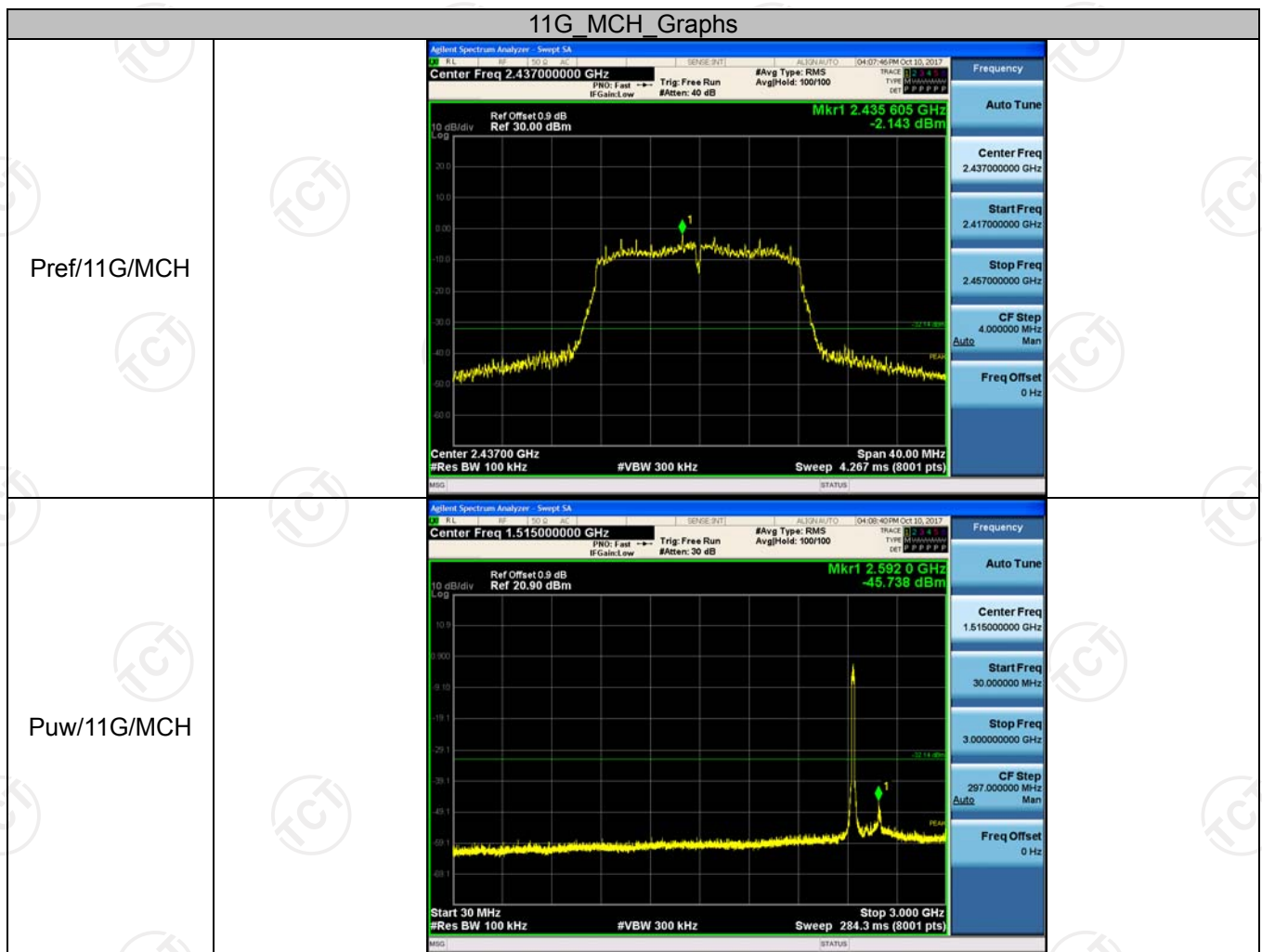
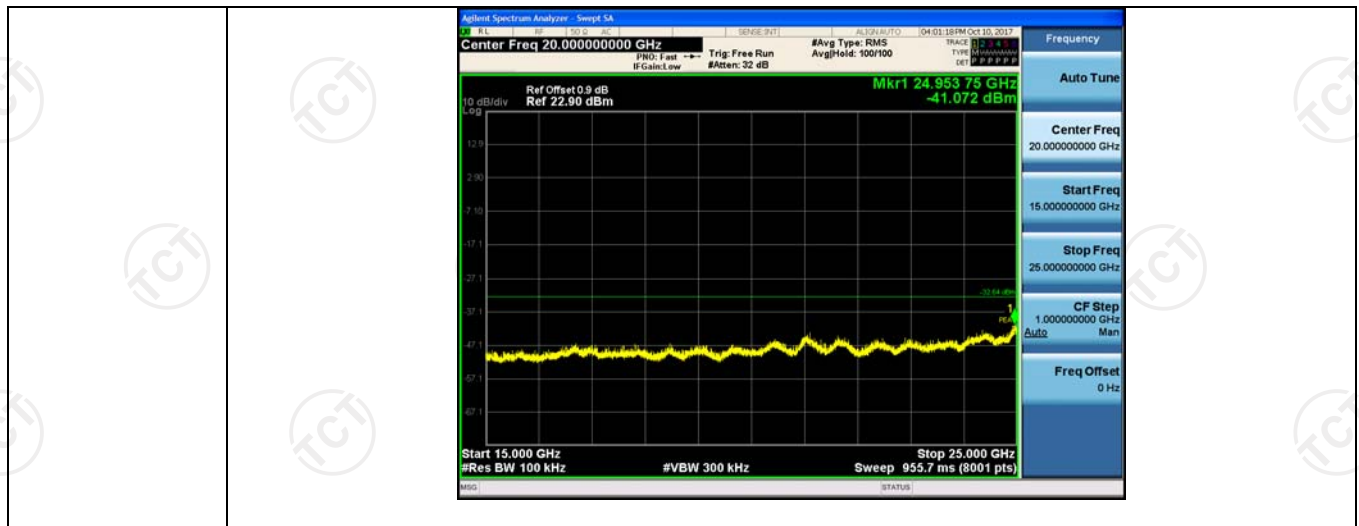
11B HCH Graphs



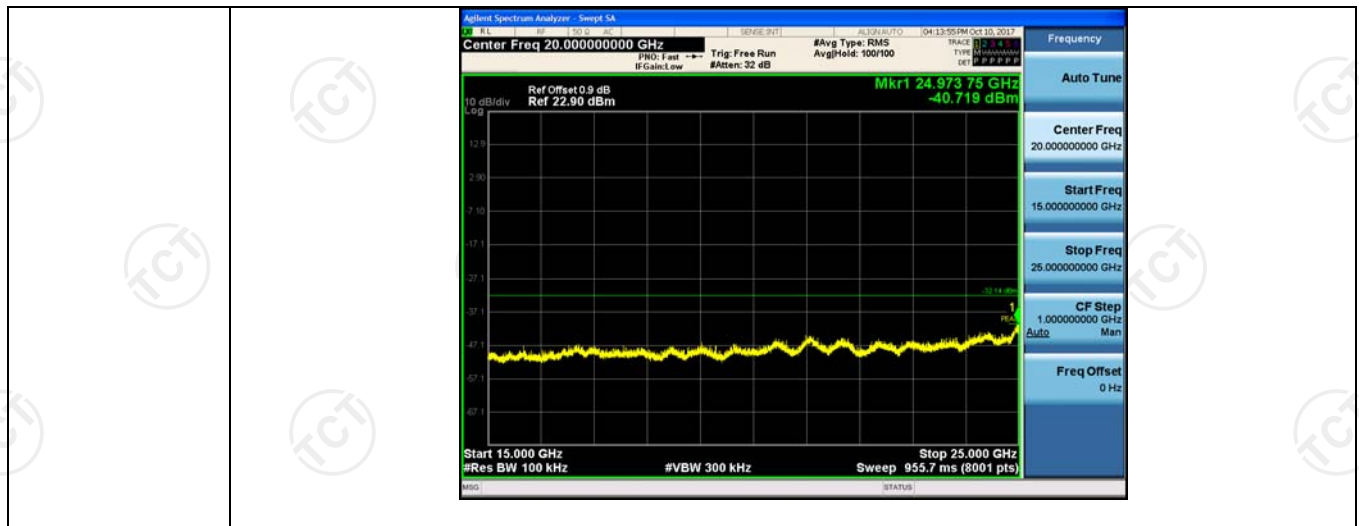




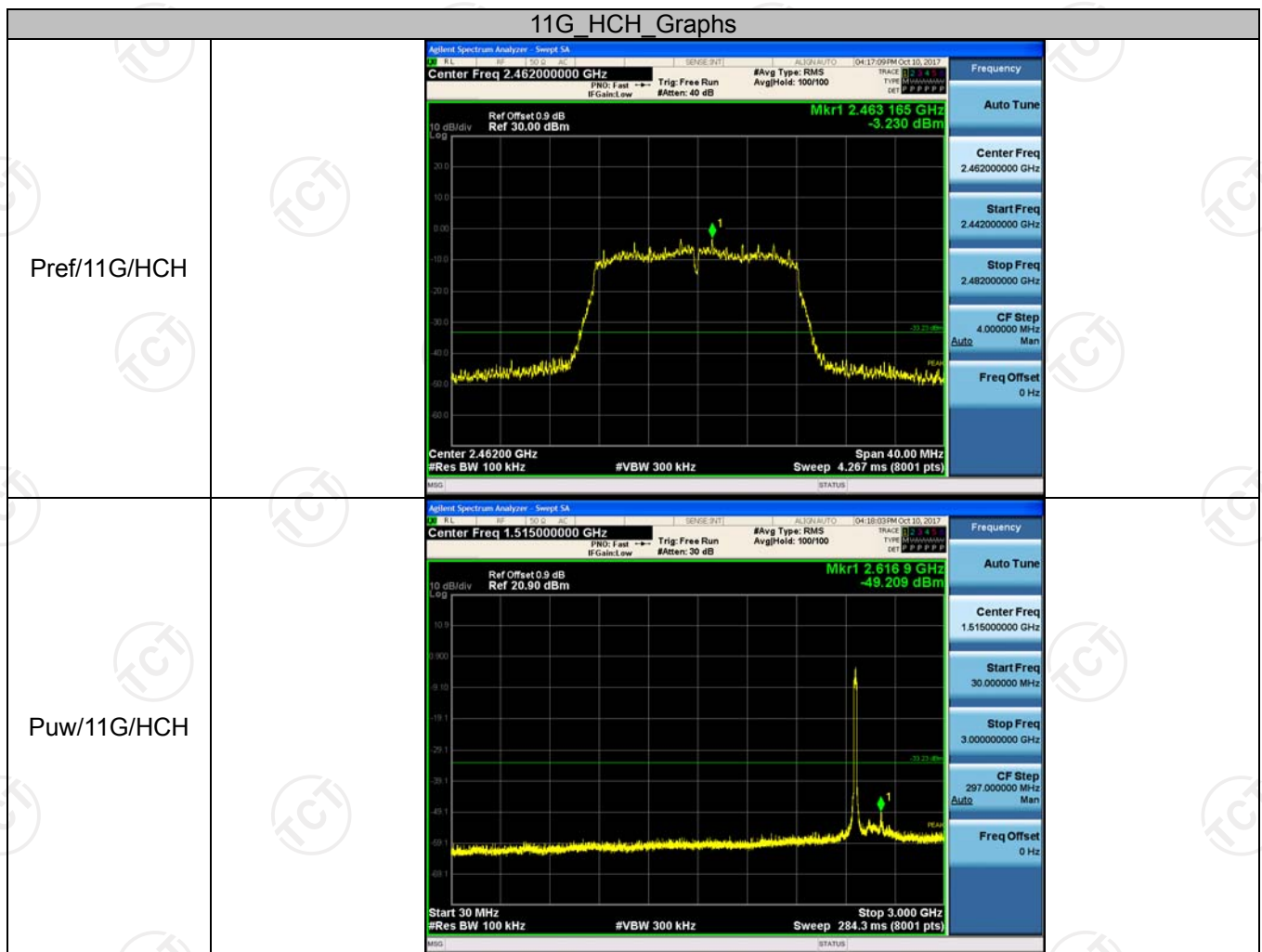




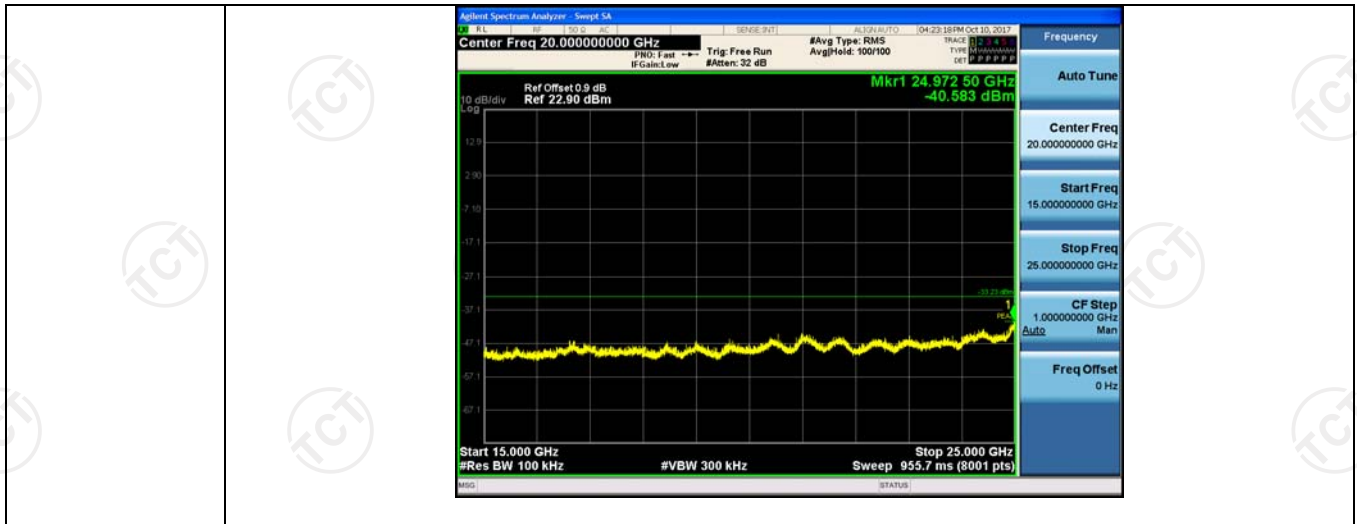




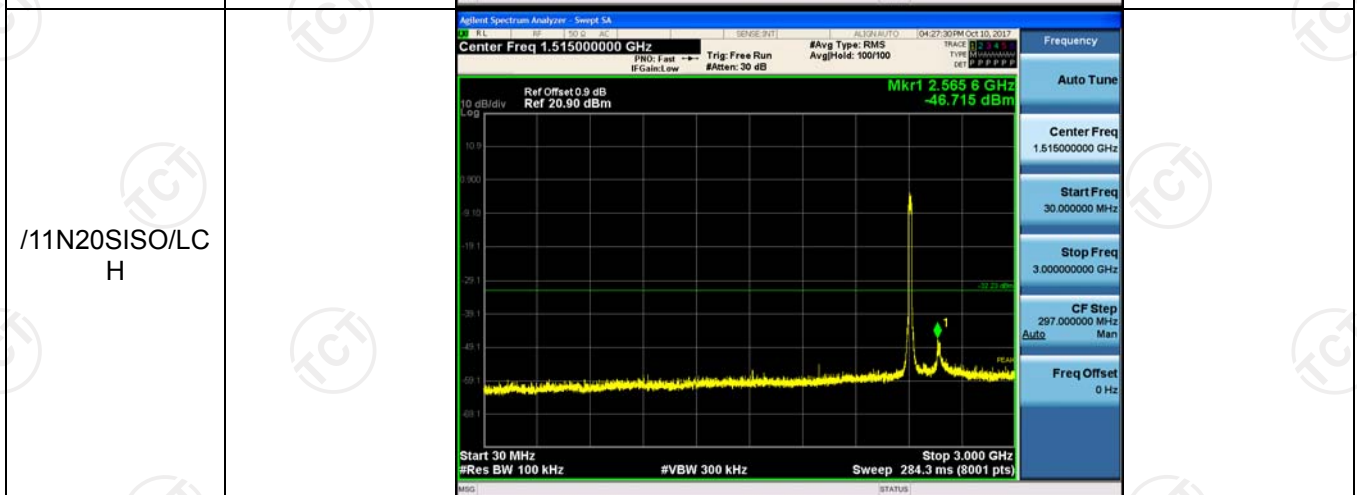
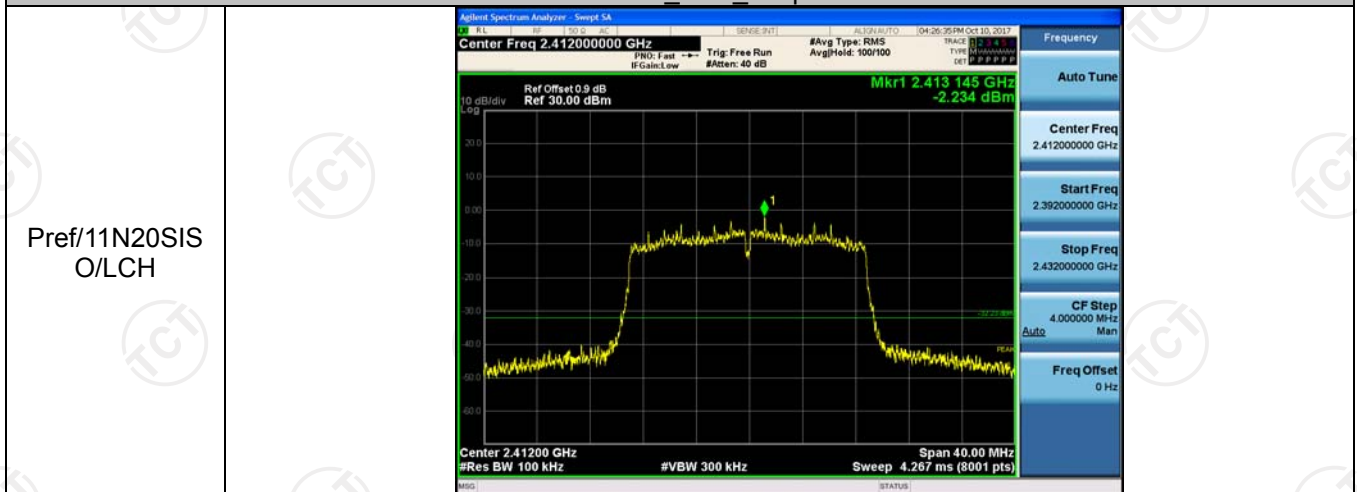
11G_HCH_Graphs

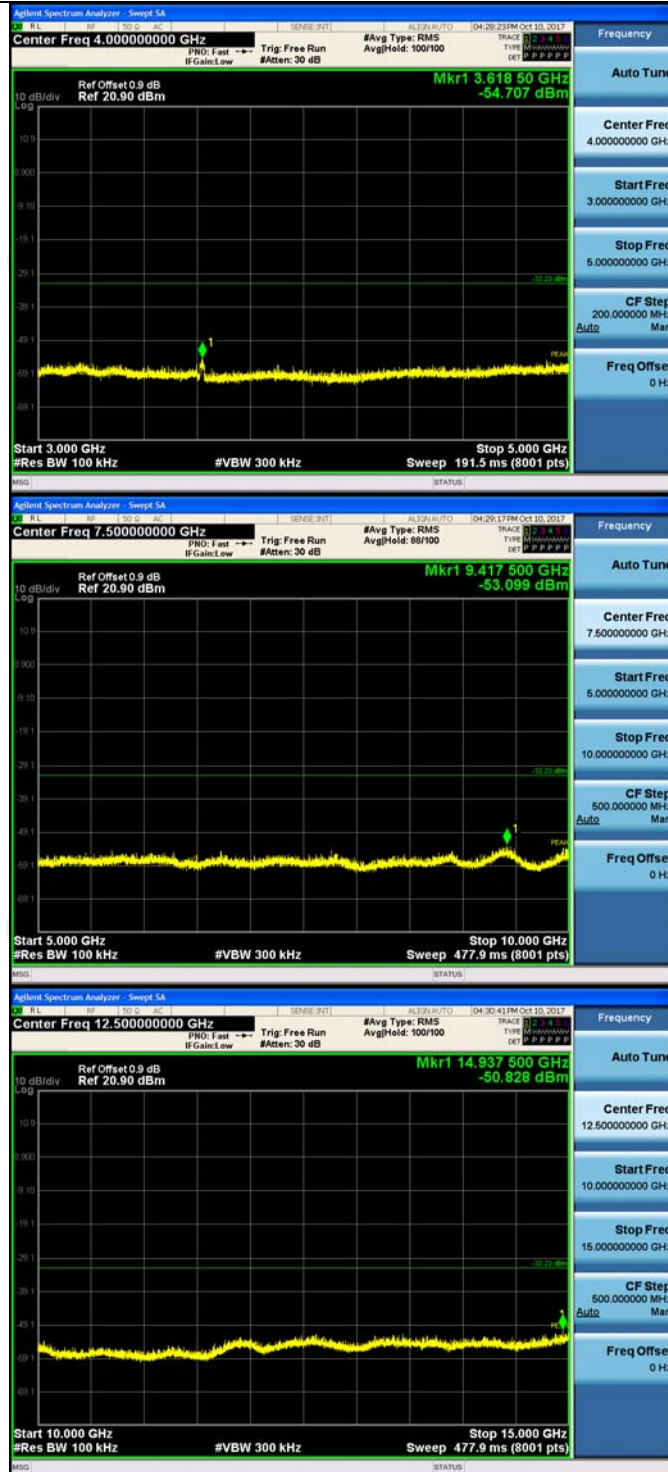


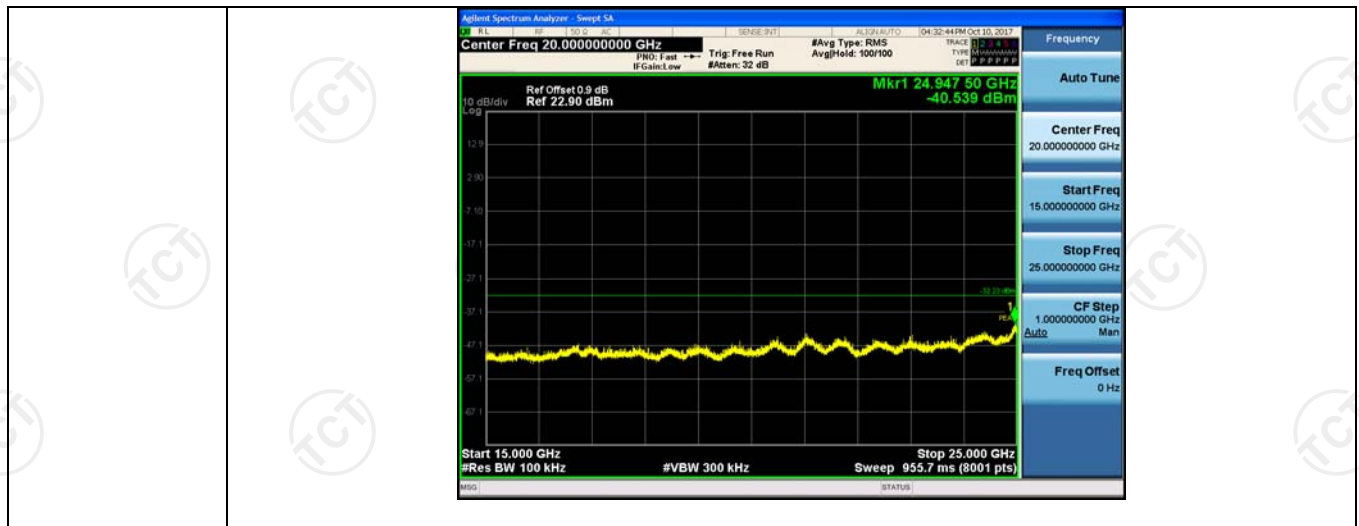




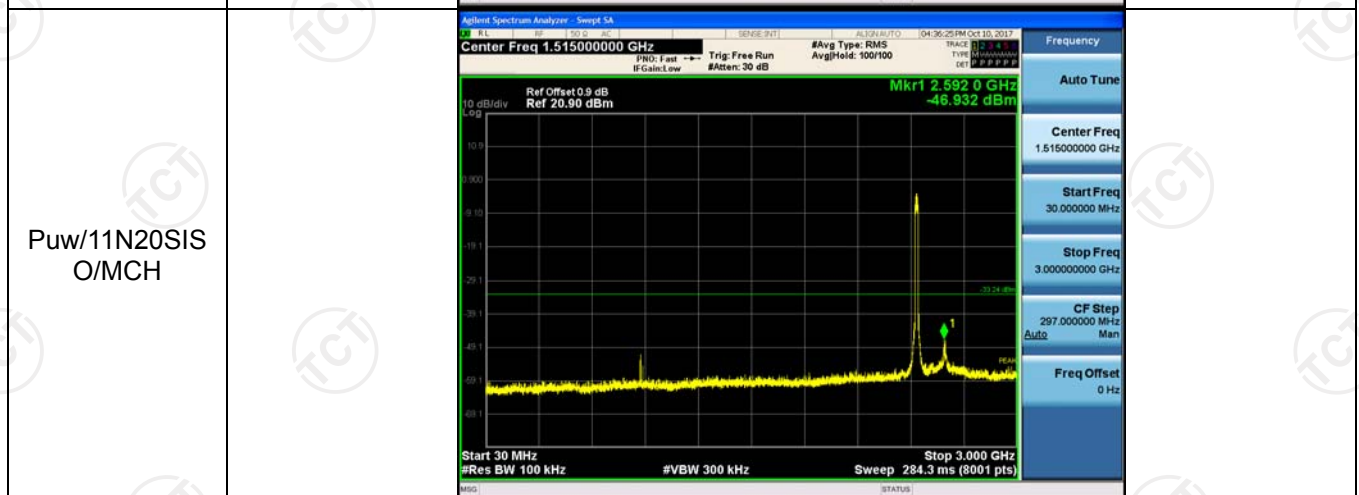
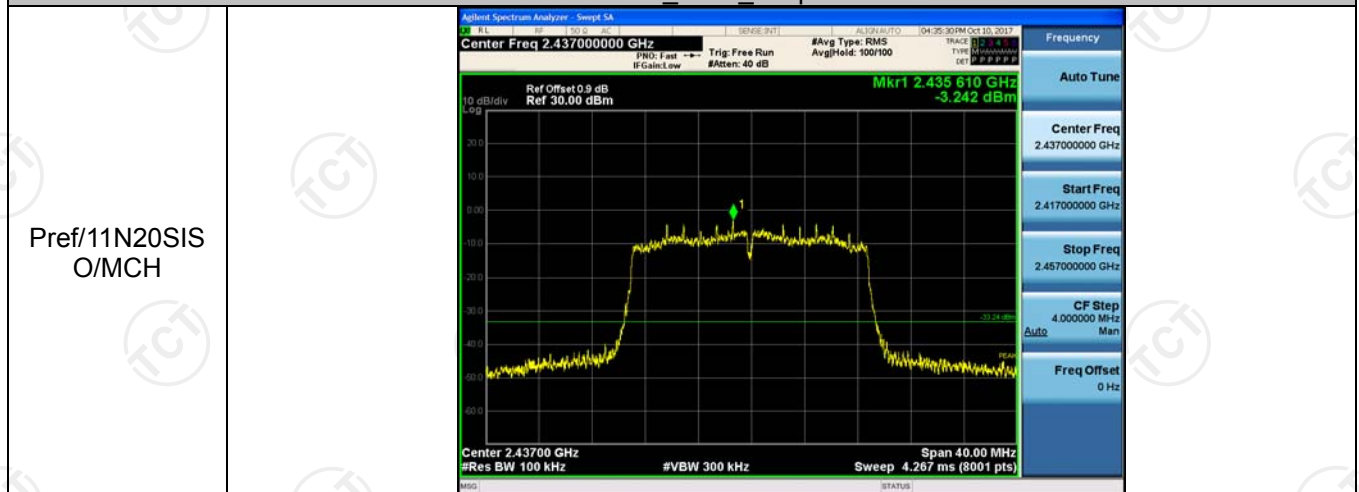
11N20SISO_LCH_Graphs



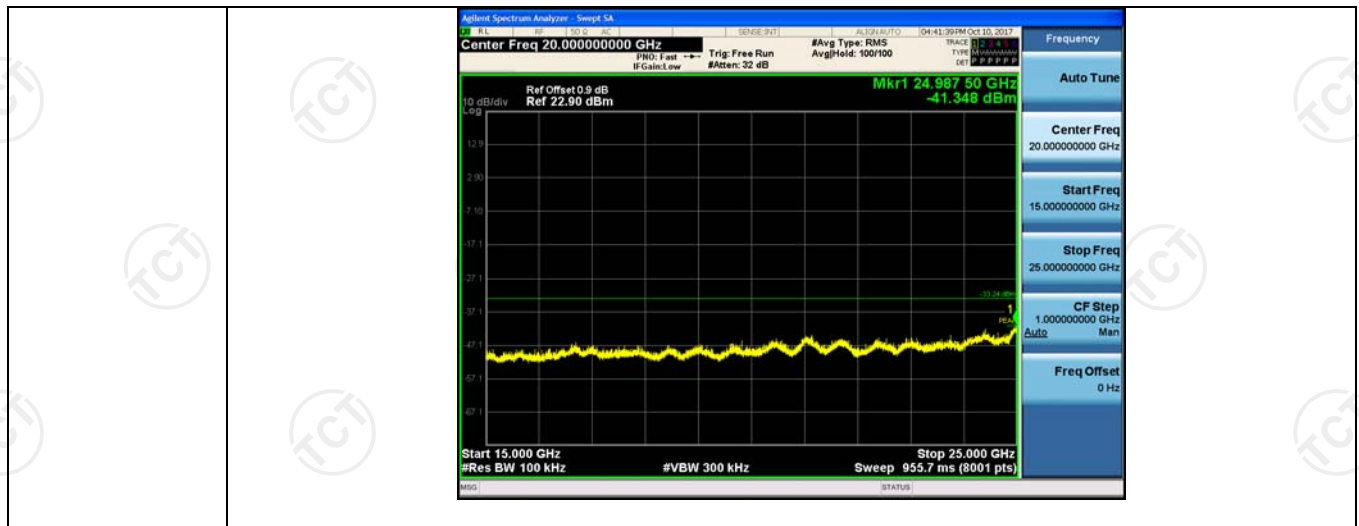




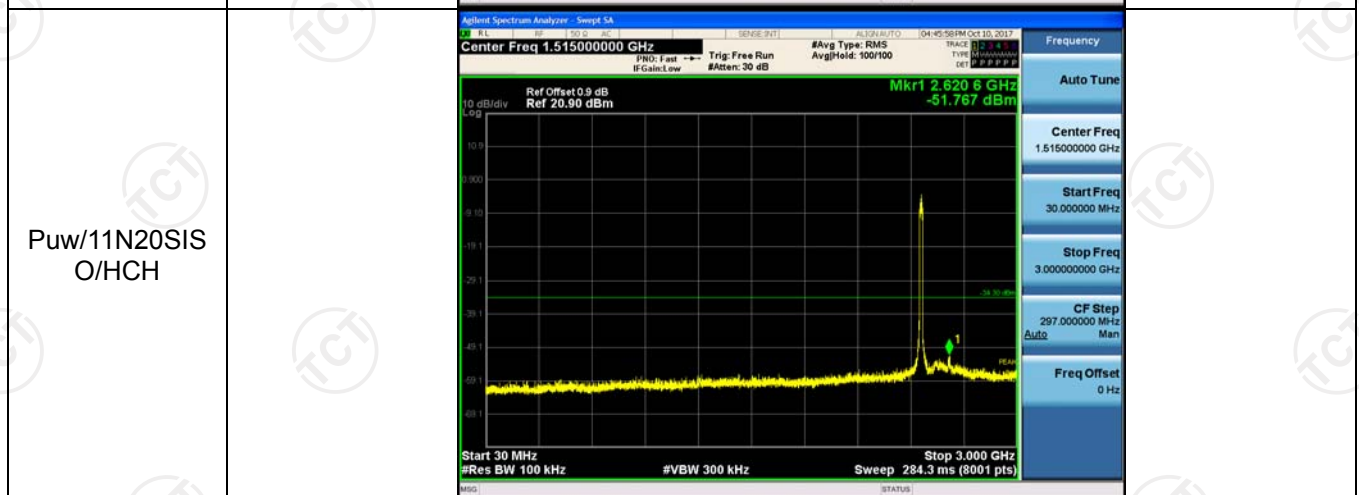
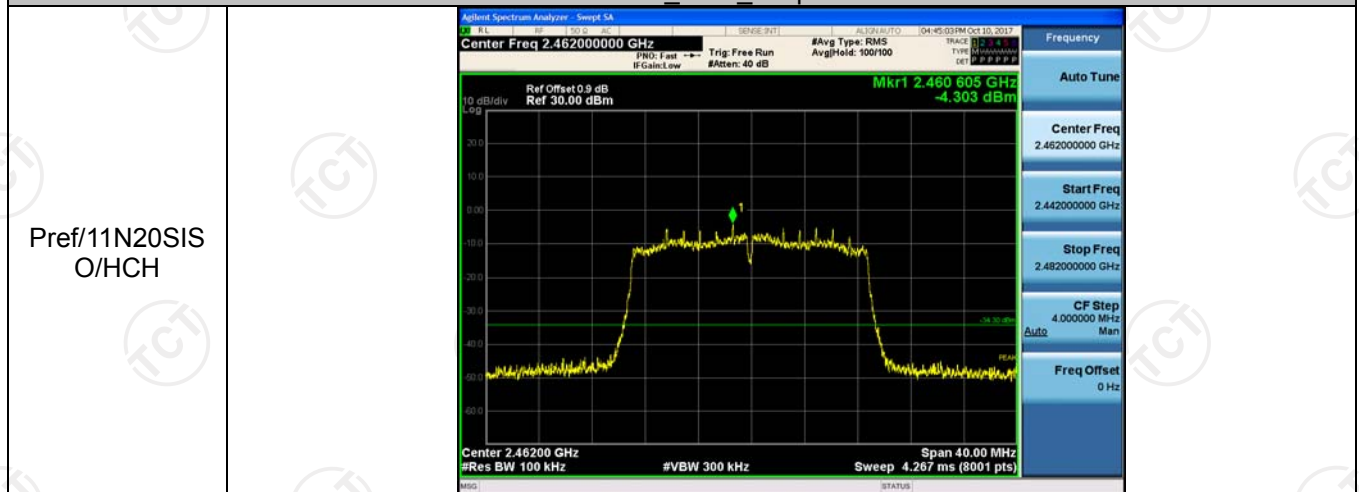
11N20SISO_MCH_Graphs

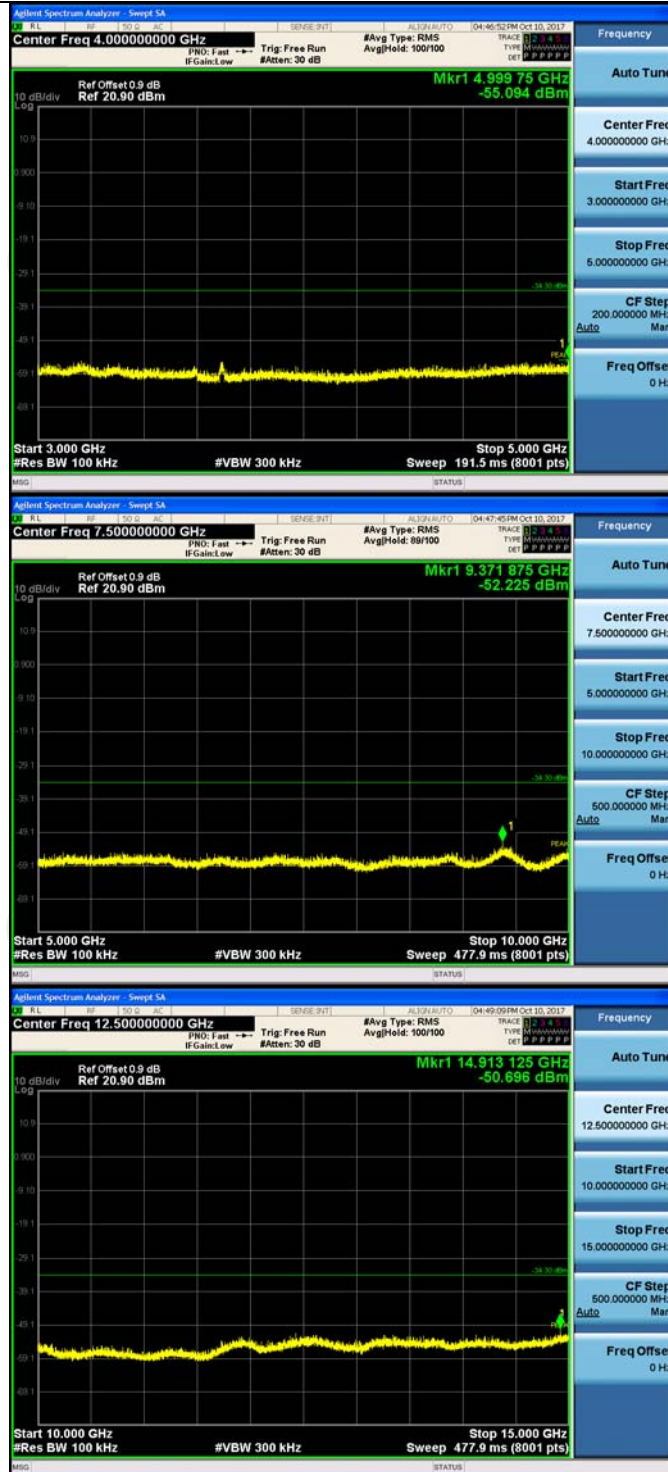






11N20SISO_HCH_Graphs





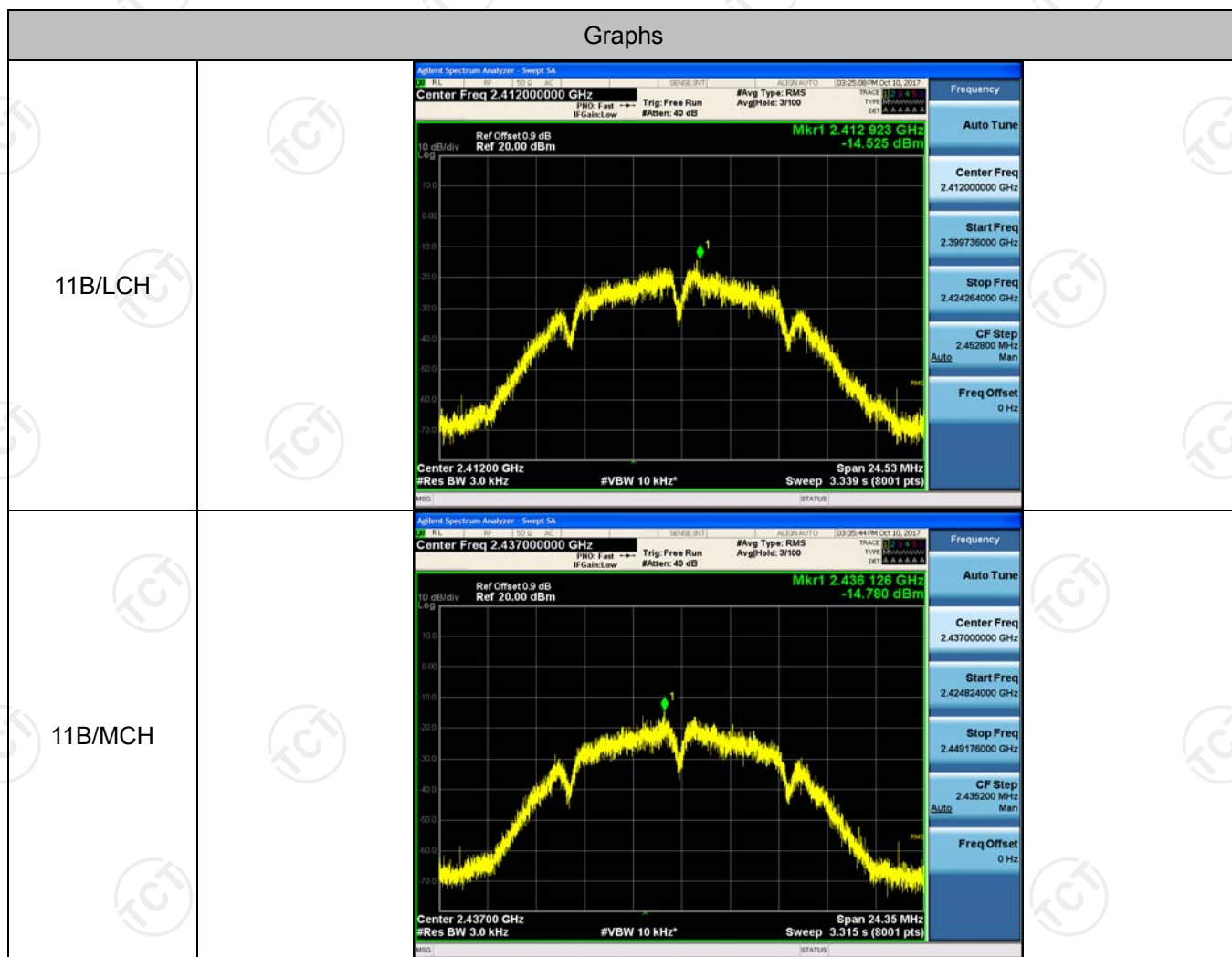


Power Spectral Density

Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	-14.525	PASS
11B	MCH	-14.780	PASS
11B	HCH	-16.720	PASS
11G	LCH	-18.114	PASS
11G	MCH	-19.905	PASS
11G	HCH	-20.924	PASS
11N20SISO	LCH	-21.616	PASS
11N20SISO	MCH	-22.124	PASS
11N20SISO	HCH	-23.402	PASS

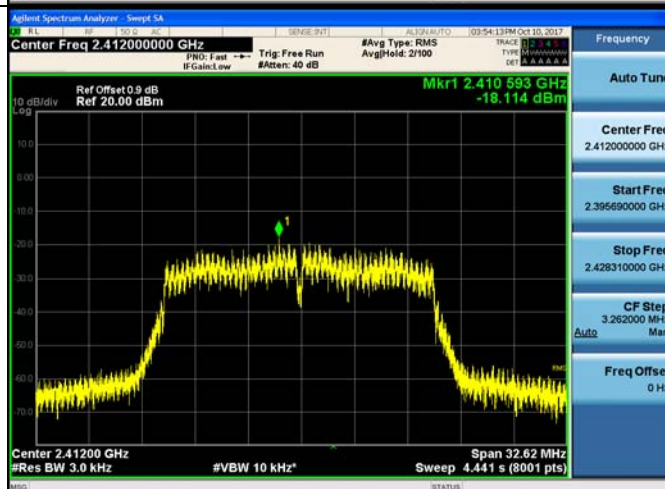
Test Graph



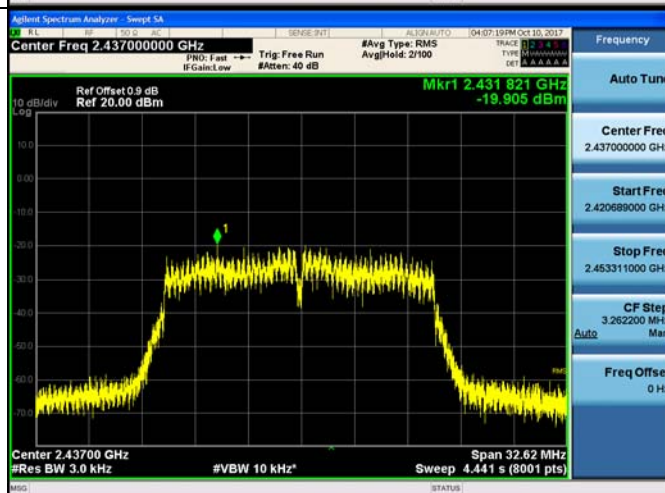
11B/HCH

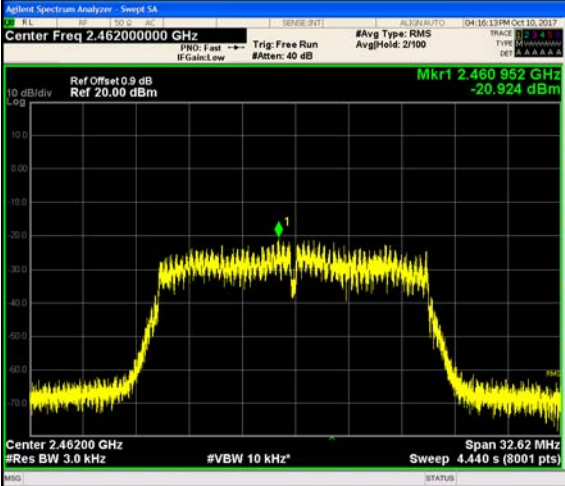
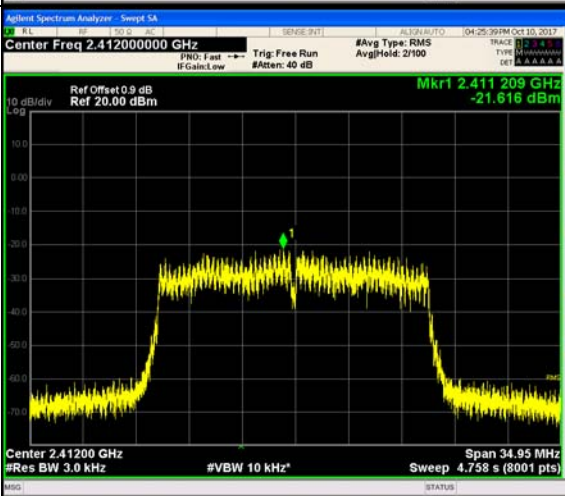
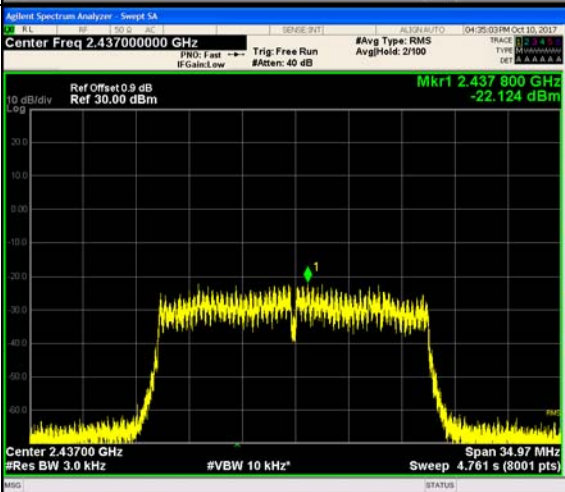


11G/LCH

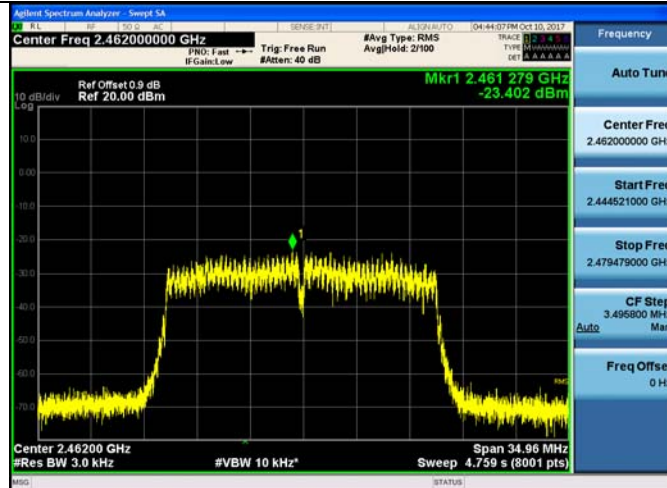


11G/MCH



11G/HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.46200000 GHz Ref Offset 0.9 dB Ref 20.00 dBm Mkr1 2.460952 GHz -20.924 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 32.62 MHz Sweep 4.440 s (8001 pts)	Frequency Auto Tune Center Freq 2.462000000 GHz Start Freq 2.445692000 GHz Stop Freq 2.478308000 GHz CF Step 3.261600 MHz Freq Offset 0 Hz
11N20SISO/L CH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.41200000 GHz Ref Offset 0.9 dB Ref 20.00 dBm Mkr1 2.411209 GHz -21.616 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 34.95 MHz Sweep 4.758 s (8001 pts)	Frequency Auto Tune Center Freq 2.412000000 GHz Start Freq 2.394523000 GHz Stop Freq 2.428477000 GHz CF Step 3.495400 MHz Freq Offset 0 Hz
11N20SISO/M CH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.43700000 GHz Ref Offset 0.9 dB Ref 30.00 dBm Mkr1 2.437800 GHz -22.124 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 34.97 MHz Sweep 4.761 s (8001 pts)	Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.419514000 GHz Stop Freq 2.454486000 GHz CF Step 3.497200 MHz Freq Offset 0 Hz

11N20SISO/H
CH



Appendix B: Photographs of Test Setup

Refer to test report TCT170925E037

Appendix C: Photographs of EUT

Refer to test report TCT170925E037

*******END OF REPORT*******