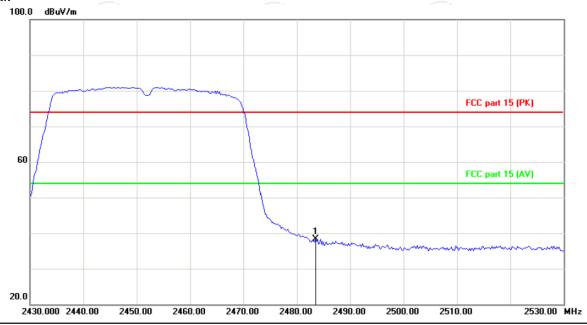


Vertical:



Site Polarization: Vertical Temperature: 25
Limit: FCC part 15 (PK) Power: Humidity: 55 %

-	No. Mk.		k. Freq.			Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
-	1	*	2483.500	51.04	-12.74	38.30	74.00	-35.70	peak

Note:

- 1. Peak Final Emission Level=Peak Reading + Correction Factor;
- 2. Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 3. Measurements were conducted in all modulation(802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)), and the worst case Mode (802.11n(HT40)) was submitted only.
- 4. 802.11n(HT40) is MIMO mode.



Above 1GHz

Report No.: TCT190628E026

Modulation Type: 802.11b												
	Low channel: 2412 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4824	Н	47.23		0.75	47.98		74	54	-6.02			
7236	Н	36.54		9.87	46.41		74	54	-7.59			
(Н		<i></i>		(<i>f</i>				
			'KO')	/	4							
4824	V	44.98		0.75	45.73		74	54	-8.27			
7236	V	35.75		9.87	45.62		74	54	-8.38			
	V											

		KO)	M	iddle chanr	el: 2437MF	Ηz	KO)		N.
Frequency (MHz)	Ant. Pol. H/V	(aghn) , , , (ag/w) (aghn/w) (aghn/w)		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Н	46.14		0.97	47.11		74	54	-6.89
7311	Н	34.62	[- C)	9.83	44.45	. C. 24	74	54	-9.55
"	Н								
4874	V	48.02		0.97	48.99		74	54	-5.01
7311	V	37.45		9.83	47.28		74	54	-6.72
	V			(.c					(. c

High channel: 2462 MHz													
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
4924	O H	45.79	C	1.18	46.97	(O-i)	74	54	-7.03				
7386	H	37.52	-77	10.07	47.59		74	54	-6.41				
	Н												
4924	V	47.34		1.18	48.52		74	54	-5.48				
7386	V	38.15		10.07	48.22		74	54	-5.78				
/	V								\				

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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.
- 6. 802.11b is SISO mode and the worst case Antenna (ANTO) was submitted only.





Report No.: TCT190628E026
Modulation Type: 802.11q

	Low channel: 2412 MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4824	Н	45.63		0.75	46.38		74	54	-7.62			
7236	Н	34.27		9.87	44.14		74	54	-9.86			
	Н					-						
				\								
4824	V	46.03	X.	0.75	46.78	7-	74	54	-7.22			
7236	V	35.58		9.87	45.45	1	74	54	-8.55			
	V											

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Ι	44.74		0.97	45.71		74	54	-8.29
7311	H	35.91		9.83	45.74		74	54	-8.26
(H		[- G]		((-, G)	
				7					,
4874	V	47.68		0.97	48.65		74	54	-5.35
7311	V	38.12		9.83	47.95		74	54	-6.05
	V								

			Н	ligh channe	l: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Ŧ	43.59		1.18	44.77		74	54	-9.23
7386	O H	34.37	F-0 ,	10.07	44.44	(O)	74	54	-9.56
	H		-3.			<u></u>			
4924	V	42.89		1.18	44.07		74	54	-9.93
7386	V	36.14		10.07	46.21		74	54	-7.79
5	V	(, C, ')		(, (((((,e,`)		(,

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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.
- 6. 802.11g is SISO mode and the worst case Antenna (ANT0) was submitted only.





Modulation Type: 802.11n (HT20)

Modulation Type: 802.11n (HT20)												
Low channel: 2412 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4824	Н	44.87		0.75	45.62		74	54	-8.38			
7236	Н	35.52		9.87	45.39		74	54	-8.61			
	Н											
(\	(
4824 V 44.69 0.75 45.44 74 54 -8.56												
7236	V	34.85		9.87	44.72		74	54	-9.28			
	\/											

Middle channel: 2437MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4874	Н	46.24		0.97	47.21		74	54	-6.79
7311	H	35.72		9.83	45.55		74	54	-8.45
(, C H		[- G]		((-, G)	
				/					,
4874	V	45.34		0.97	46.31		74	54	-7.69
7311	V	36.28		9.83	46.11		74	54	-7.89
	V								

			Н	ligh channe	I: 2462 MH	Z			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4924	Н	43.97	-/-	1.18	45.15		74	54	-8.85
7386	(OH	34.45	70	10.07	44.52	(O)	74	54	-9.48
	H					<u></u>			
			1						
4924	V	45.15		1.18	46.33		74	54	-7.67
7386	V	36.02		10.07	46.09		74	54	-7.91
J `)	V	(, C,)		(, ($(-\Theta)$		(, (

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/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.
- 6. 802.11n(HT20) is MIMO mode.



Report No.: TCT190628E026



Modulation Type: 802.11n (HT40)												
Low channel: 2422 MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4844	Н	42.56		0.75	43.31		74	54	-10.69			
7266	Н	33.71		9.87	43.58		74	54	-10.42			
	Н											
				\					1			
4824 V 43.98 0.75 44.73 74 54 -9.27												
7236	V	34.67		9.87	44.54)	74	54	-9.46			
	\/											

	Middle channel: 2437MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4874	Η	43.85		0.97	44.82		74	54	-9.18			
7311	H	33.49		9.83	43.32		74	54	-10.68			
(H		f=G		(·C ²⁴		[- 6]				
7									7			
4874	V	44.35		0.97	45.32		74	54	-8.68			
7311	V	35.18		9.83	45.01		74	54	-8.99			
	V											

High channel: 2452 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4904	Ŧ	43.74	-/-	1.18	44.92		74	54	-9.08
7356	O H	33.46	70	10.07	43.53	(O)	74	54	-10.47
	H								
4904	V	45.06		1.18	46.24		74	54	-7.76
7356	V	36.28		10.07	46.35		74	54	-7.65
5)	V			(, ((2

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 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.
- 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.
- 6. 802.11n(HT40) is MIMO mode.



Report No.: TCT190628E026



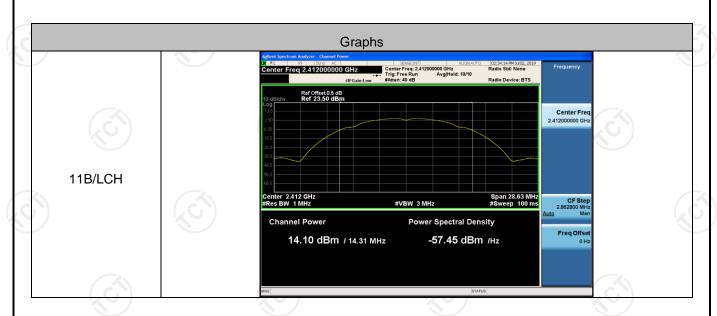
Appendix A: Test Result of Conducted Test

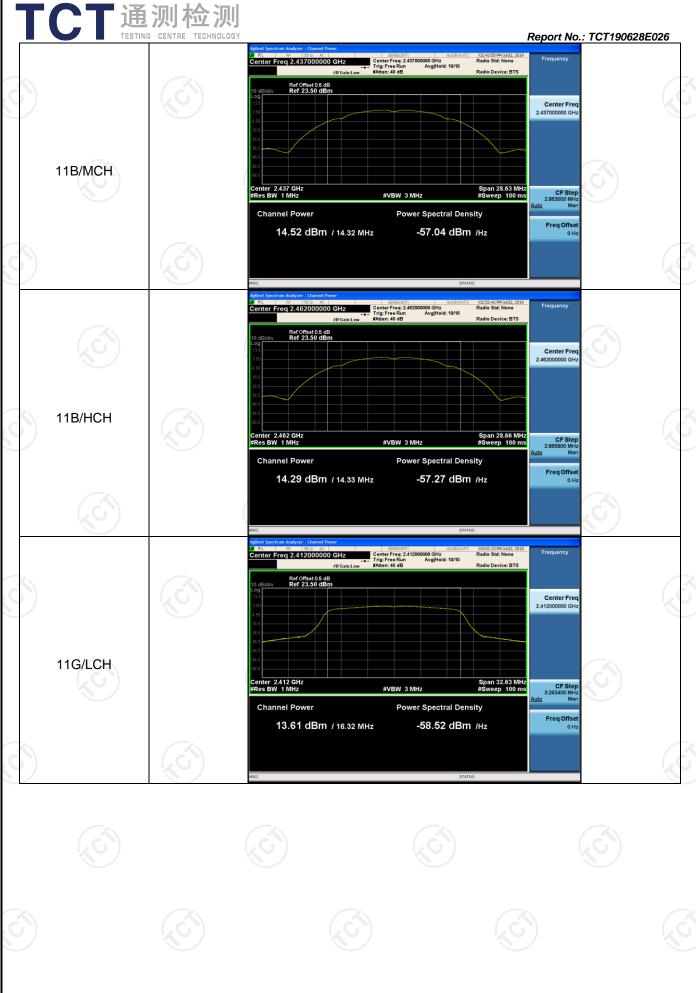
Antenna 0

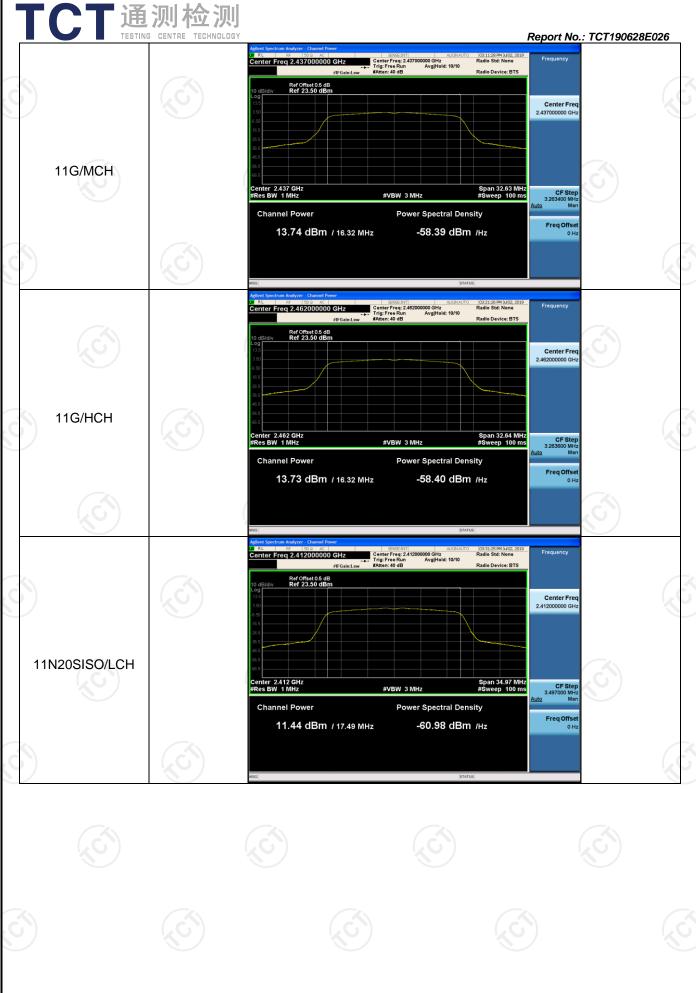
Conducted Average Output Power

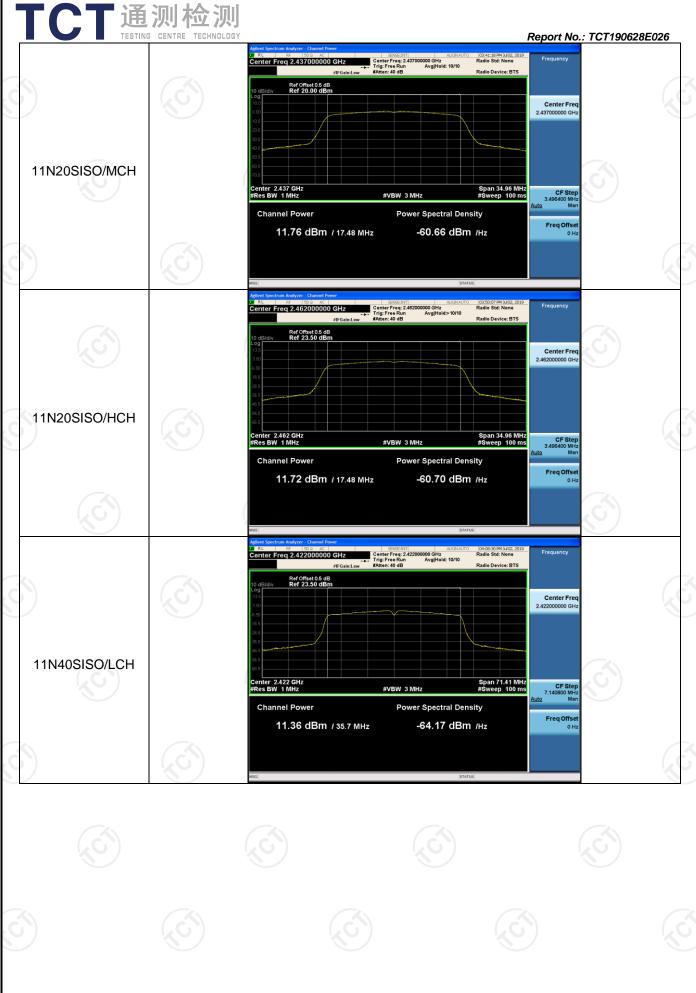
Result Table

Mode	Channel	Meas.Level [dBm]	Verdict
11B	LCH	14.10	PASS
11B	MCH	14.52	PASS
11B	HCH	14.29	PASS
11G	LCH	13.61	PASS
11G	MCH	13.74	PASS
11G	HCH	13.73	PASS
11N20SISO	LCH	11.44	PASS
11N20SISO	MCH	11.76	PASS
11N20SISO	HCH	11.72	PASS
11N40SISO	LCH	11.36	PASS
11N40SISO	MCH	11.53	PASS
11N40SISO	нсн	11.51	PASS









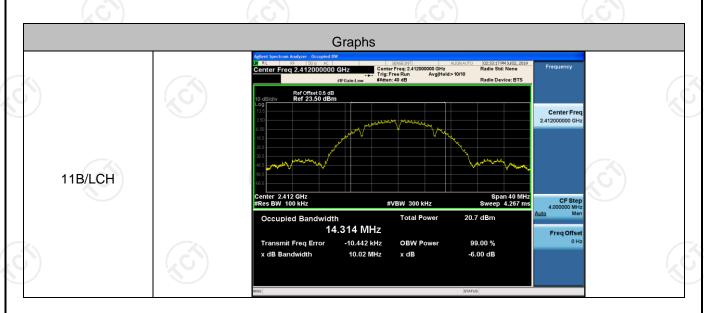




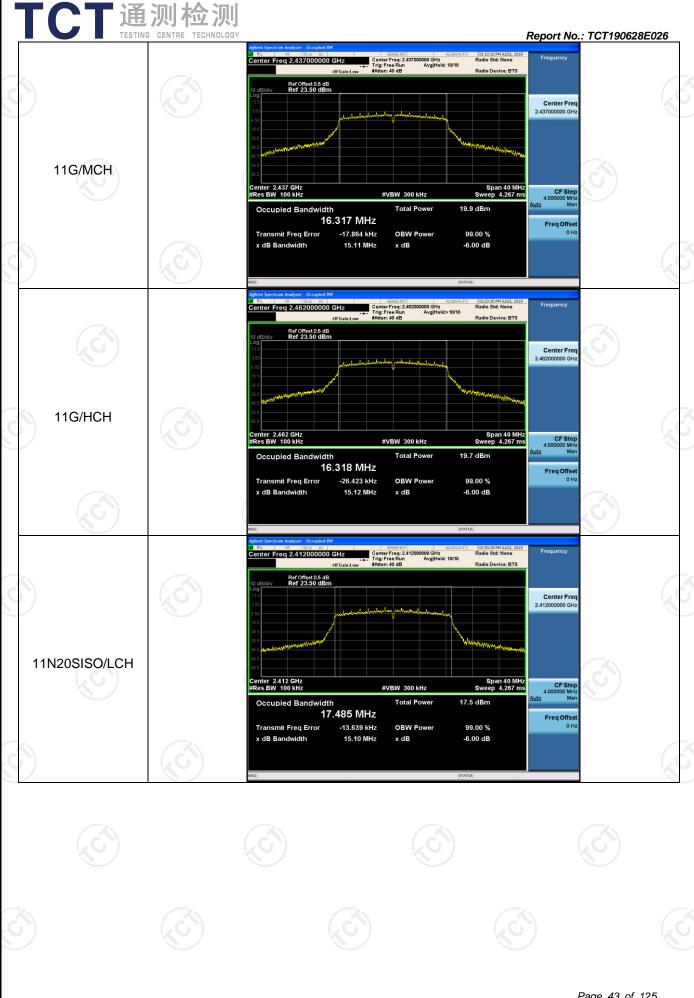
6dB Occupied Bandwidth

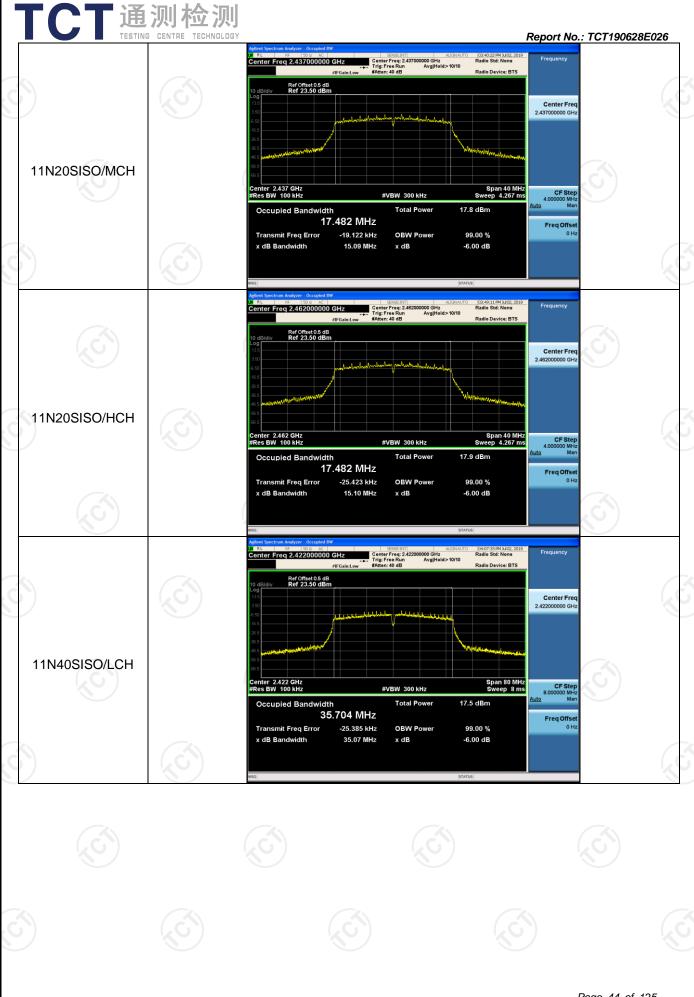
Result Table

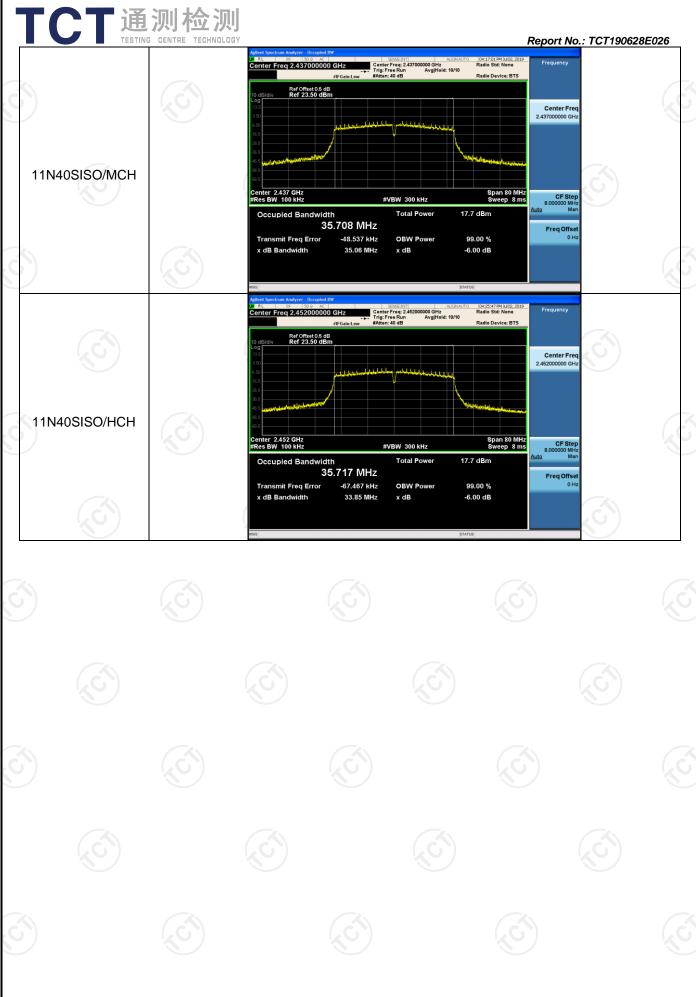
Mode	Channel	6dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
11B	LCH	10.02	14.314	PASS
11B	MCH	10.02	14.315	PASS
11B	HCH	9.565	14.329	PASS
11G	LCH	15.08	16.317	PASS
11G	мсн	15.11	16.317	PASS
11G	HCH	15.12	16.318	PASS
11N20SISO	LCH	15.10	17.485	PASS
11N20SISO	MCH	15.09	17.482	PASS
11N20SISO	HCH	15.10	17.482	PASS
11N40SISO	LCH	35.07	35.704	PASS
11N40SISO	MCH	35.06	35.708	PASS
11N40SISO	HCH	33.85	35.717	PASS











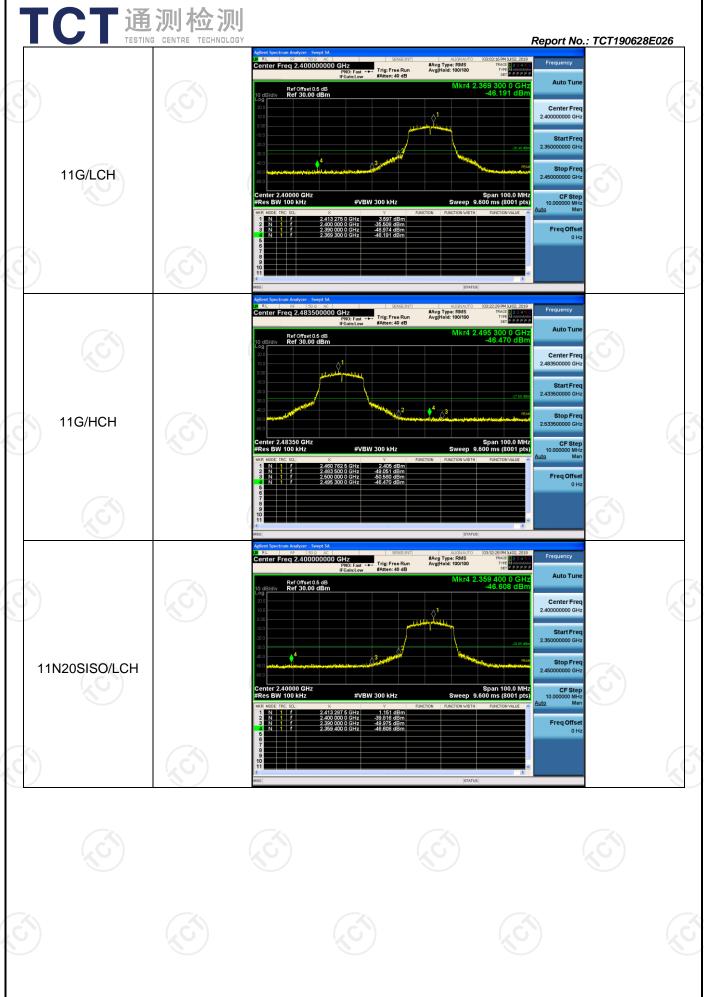


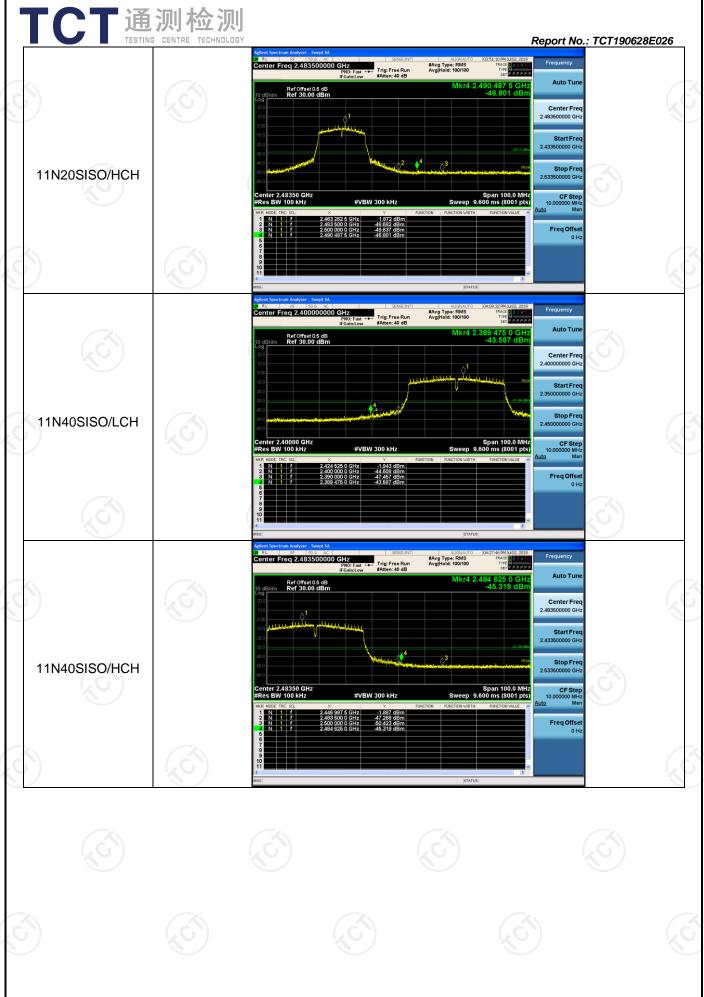
Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Power [dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	4.260	-47.657	-25.74	PASS
11B	НСН	4.520	-47.680	-25.48	PASS
11G	LCH	3.597	-46.191	-26.40	PASS
11G	HCH	2.405	-46.470	-27.60	PASS
11N20SISO	LCH	1.151	-46.608	-28.85	PASS
11N20SISO	НСН	1.872	-46.801	-28.13	PASS
11N40SISO	LCH	-1.943	-43.587	-31.94	PASS
11N40SISO	НСН	-1.887	-45.319	-31.89	PASS









RF Conducted Spurious Emissions

Result Table

Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
11B	LCH	4.237	<limit< td=""><td>PASS</td></limit<>	PASS
11B	MCH	4.744	<limit< td=""><td>PASS</td></limit<>	PASS
11B	HCH	4.517	<limit< td=""><td>PASS</td></limit<>	PASS
11G	LCH	2.322	<limit< td=""><td>PASS</td></limit<>	PASS
11G	MCH	3.598	<limit< td=""><td>PASS</td></limit<>	PASS
11G	HCH	3.616	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	LCH	0.461	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	MCH	1.661	<limit< td=""><td>PASS</td></limit<>	PASS
11N20SISO	HCH	1.758	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	LCH	-1.672	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	MCH	-1.444	<limit< td=""><td>PASS</td></limit<>	PASS
11N40SISO	нсн	-1.486	<limit< td=""><td>PASS</td></limit<>	PASS

