

Condition : FCC PART 15 B QP POL: NEUTRAL Temp:25.7 °C Hum:51 %  
EUT :  
Model No : Circle version1  
Test Mode : Charging  
Power : AC 120V/60Hz  
Test Engineer: Alex  
Remark : ANTI2

Item	Freq	Read	LISN	Preamp	Cable	Level	Limit	Margin	Remark
			Factor	Factor	Lose	dBuV	dBuV	dBuV	
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.447	24.69	0.03	-9.57	0.10	34.39	56.92	-22.53	Peak
2	0.609	30.63	0.03	-9.59	0.10	40.35	56.00	-15.65	Peak
3	0.888	24.61	0.04	-9.62	0.10	34.37	56.00	-21.63	Peak
4	1.241	26.38	0.04	-9.65	0.10	36.17	56.00	-19.83	Peak
5	1.570	22.82	0.05	-9.69	0.10	32.66	56.00	-23.34	Peak
6	19.524	26.22	0.31	-9.80	0.34	36.67	60.00	-23.33	Peak

Remarks: Level = Read + LISN Factor - Preamp Factor + Cable loss

## 7 Conducted Maximum Output Power

### 7.1 Test limit

Please refer section RSS-247 & 15.247.

### 7.2 Test Procedure

Details see the KDB558074 Meas Guidance V03

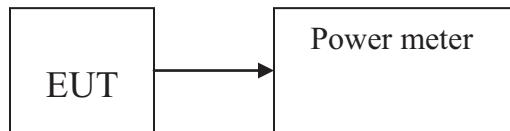
7.2.1 Place the EUT on the table and set it in transmitting mode.

7.2.2 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

Details see the KDB558074 DTS Meas Guidance V03

### 7.3 Test Setup



### 7.4 Test Results

**PASS**

Detailed information please see the following page.

EUT: Circle	M/N: Circle Version 1
Test date: 2015-10-10	Test site: RF site
Conclusion: PASS	

Mode	Frequency (MHz)	Ant Port	PK Output power(dBm)		Limit (dBm)
IEEE 802.11 b	CH1: 2412	0	14.71	14.71	30.00
		1	14.25	14.25	30.00
	CH6: 2437	0	14.38	14.38	30.00
		1	14.83	14.83	30.00
	CH11: 2462	0	14.72	14.72	30.00
		1	14.24	14.24	30.00
	CH1: 2412	0	13.75	13.75	30.00
		1	13.68	13.68	30.00
	CH6: 2437	0	13.16	13.16	30.00
		1	13.72	13.72	30.00
IEEE 802.11 g	CH11: 2462	0	13.65	13.65	30.00
		1	13.24	13.24	30.00
	CH1: 2412	0	11.53	14.43	27.99
		1	11.31		
	CH6: 2437	0	11.28	14.41	27.99
		1	11.09		
	CH11: 2462	0	11.52	14.64	27.99
		1	11.73		
IEEE 802.11 n/HT20 with 2.4G	CH1: 2422	0	10.96	13.64	27.99
		1	10.28		
	CH4: 2437	0	10.53	13.59	27.99
		1	10.62		
	CH7: 2452	0	10.38	13.49	27.99
		1	10.58		

Conclusion: PASS

## 8 PEAK POWER SPECTRAL DENSITY

### 8.1 Test limit

- 8.1.1 Please refer section RSS-247 & 15.247.
- 8.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.
- 8.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

### 8.2 Method of measurement

Details see the KDB558074 DTS Meas Guidance V03

- 8.2.1 Place the EUT on the table and set it in transmitting mode.
- 8.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 8.2.3 Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, span=5-30%EBW, detail see the test plot.
- 8.2.4 Record the max reading.
- 8.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

### 8.3 Test Setup



## 8.4 Test Results

PASS.

Detailed information please see the following page.

Mode	Frequency (MHz)	Ant Port	PK Output power(dBm)		Limit (dBm)	Result
IEEE 802.11 b	CH1: 2412	0	-9.735	-9.735	8	PASS
		1	-10.318	-10.318	8	PASS
	CH6: 2437	0	-9.793	-9.793	8	PASS
		1	-9.455	-9.455	8	PASS
	CH11: 2462	0	-9.693	-9.693	8	PASS
		1	-8.846	-8.846	8	PASS
IEEE 802.11 g	CH1: 2412	0	-15.630	-15.630	8	PASS
		1	-15.860	-15.860	8	PASS
	CH6: 2437	0	-12.617	-12.617	8	PASS
		1	-13.243	-13.243	8	PASS
	CH11: 2462	0	-14.364	-14.364	8	PASS
		1	-13.928	-13.928	8	PASS
IEEE 802.11 n/HT20 with 2.4G	CH1: 2412	0	-14.941	-12.01	8	PASS
		1	-15.111			
	CH6: 2437	0	-13.888	-11.33	8	PASS
		1	-12.597			
	CH11: 2462	0	-14.843	-12.04	8	PASS
		1	-15.262			
IEEE 802.11 n/HT40 with 2.4G	CH1: 2422	0	-21.295	-17.78	8	PASS
		1	-20.338			
	CH4: 2437	0	-18.212	-14.48	8	PASS
		1	-16.863			
	CH7: 2452	0	-19.730	-16.97	8	PASS
		1	-20.241			

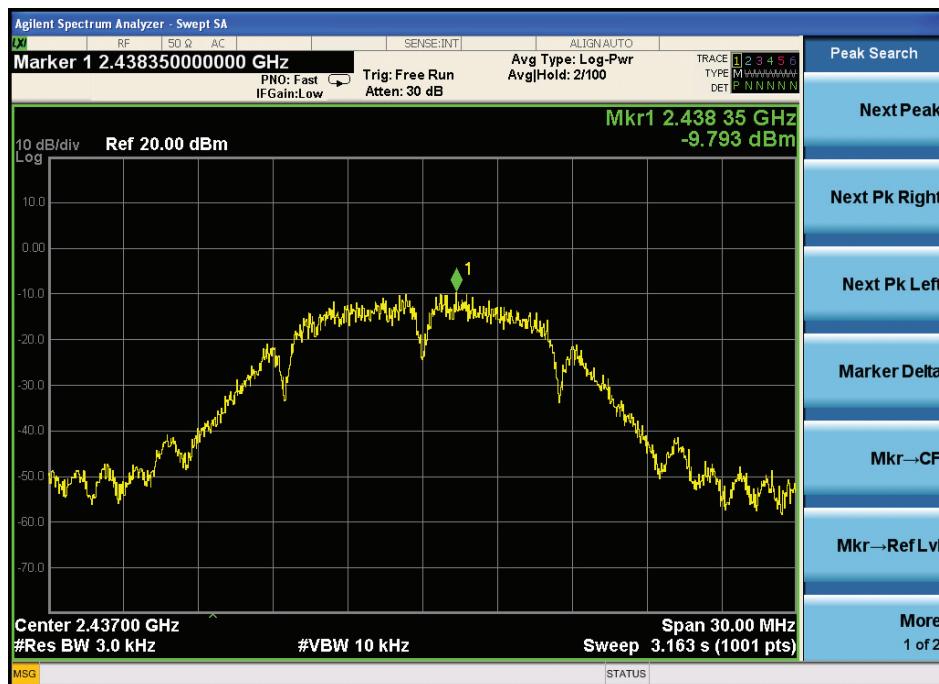
Port 0 antenna

IEEE 802.11b :

CH Low :



CH Mid:

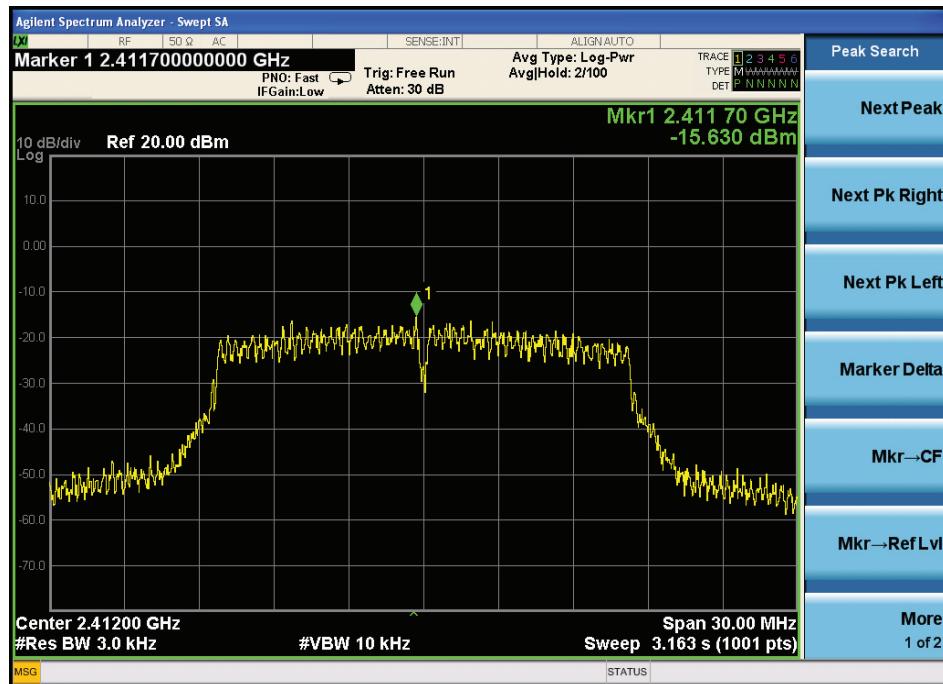


CH Hig:

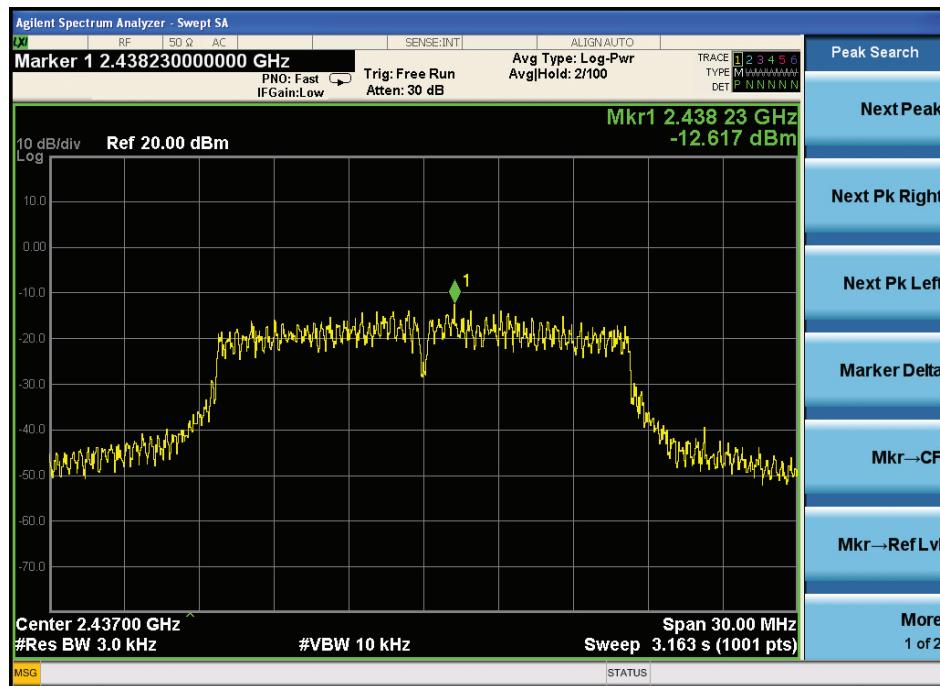


IEEE 802.11g :

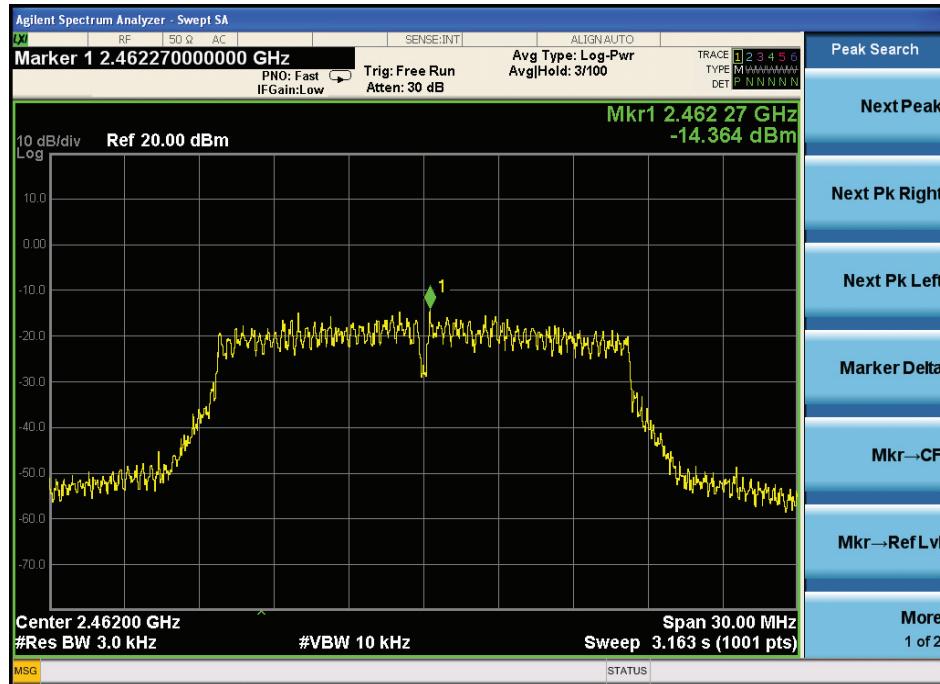
CH Low



CH Mid:

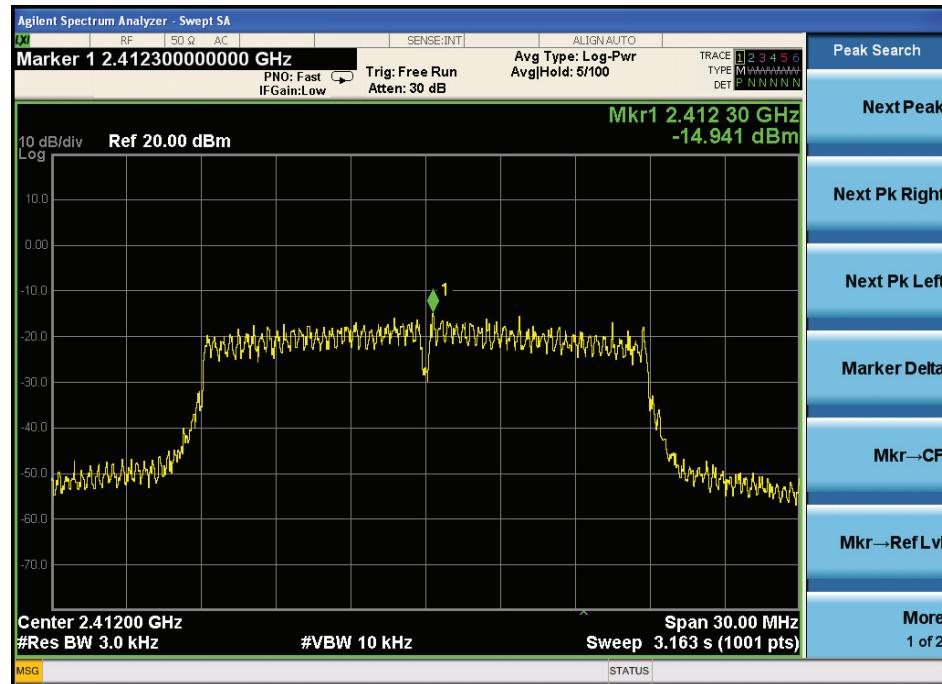


CH Hig:

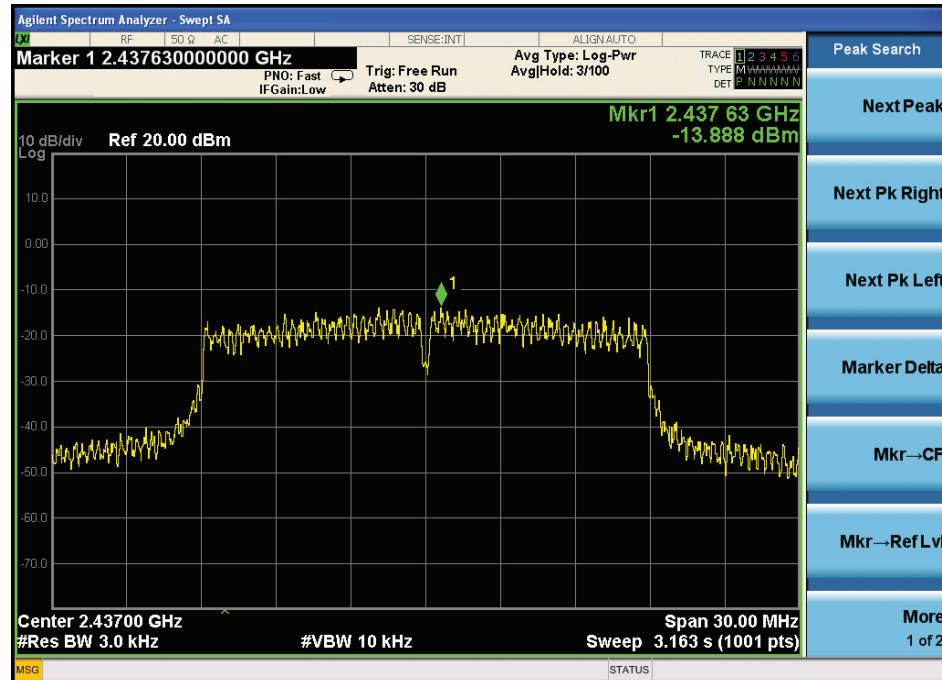


IEEE 802.11n HT20 :

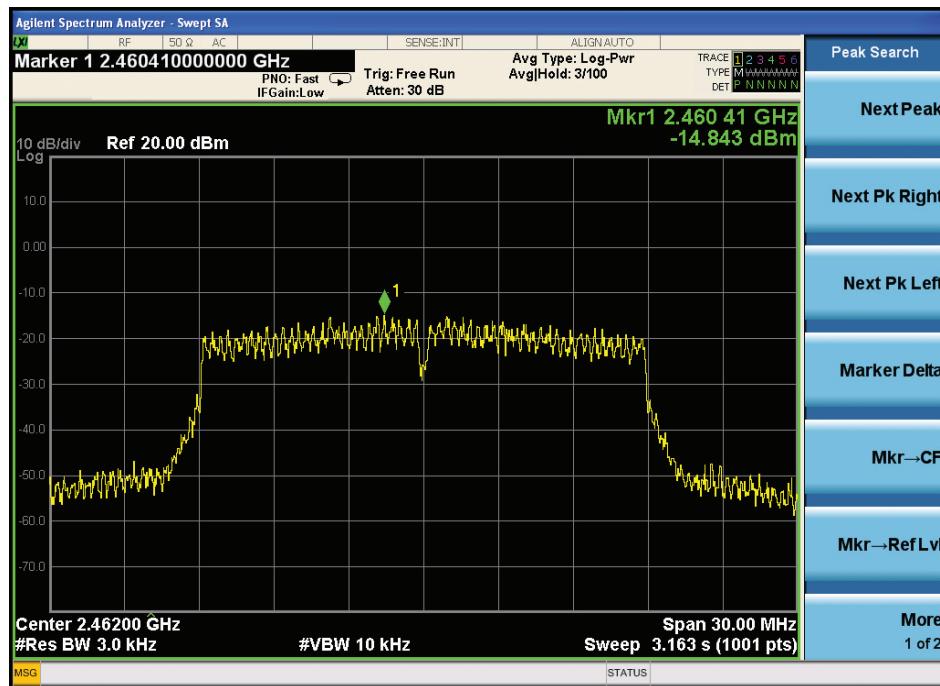
CH Low :



CH Mid:



CH Hig:



IEEE 802.11n HT40 :

CH Low:

