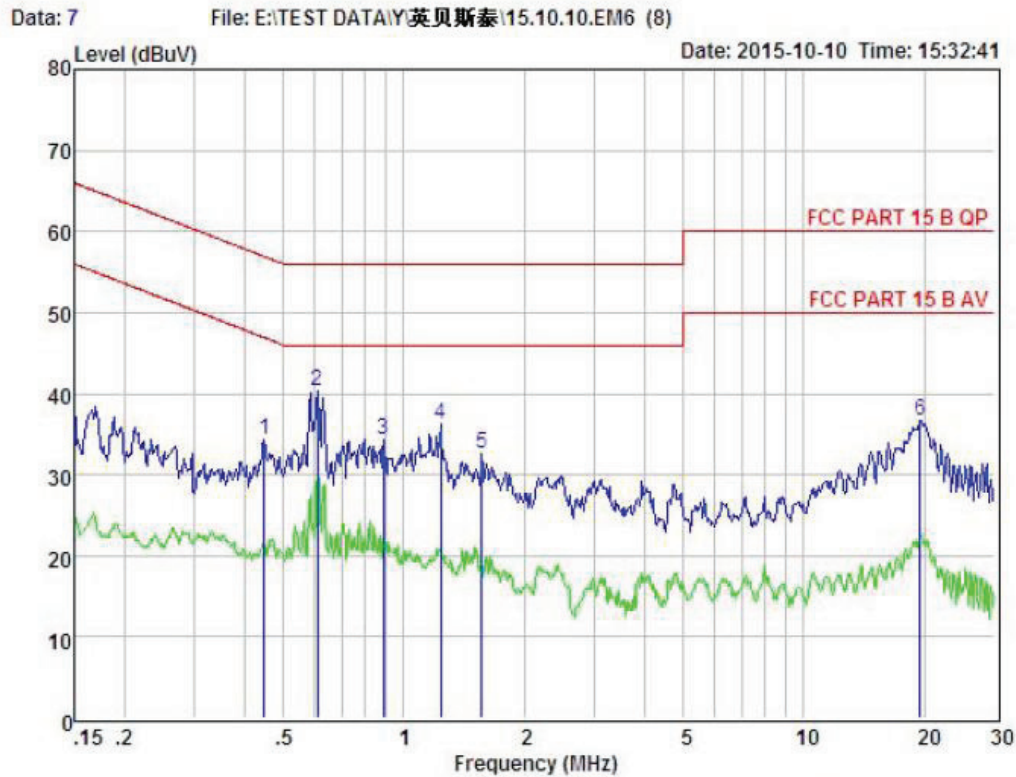




Condition : FCC PART 15 B QP POL: NEUTRAL Temp:25.7 °C Hum:51 %
 EUT :
 Model No : Circle version1
 Test Mode : Charging
 Power : AC 120V/60Hz
 Test Engineer: Alex
 Remark : ANI2

Item	Freq MHz	Read dBuV	LISN Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
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

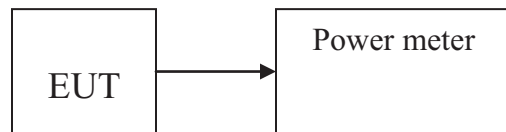
7.2.1 Place the EUT on the table and set it in transmitting mode.

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	Tested by: Eric Huang
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
IEEE 802.11 g	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
	CH11: 2462	0	13.65	13.65	30.00
		1	13.24	13.24	30.00
IEEE 802.11 n/HT20 with 2.4G	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/HT40 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.

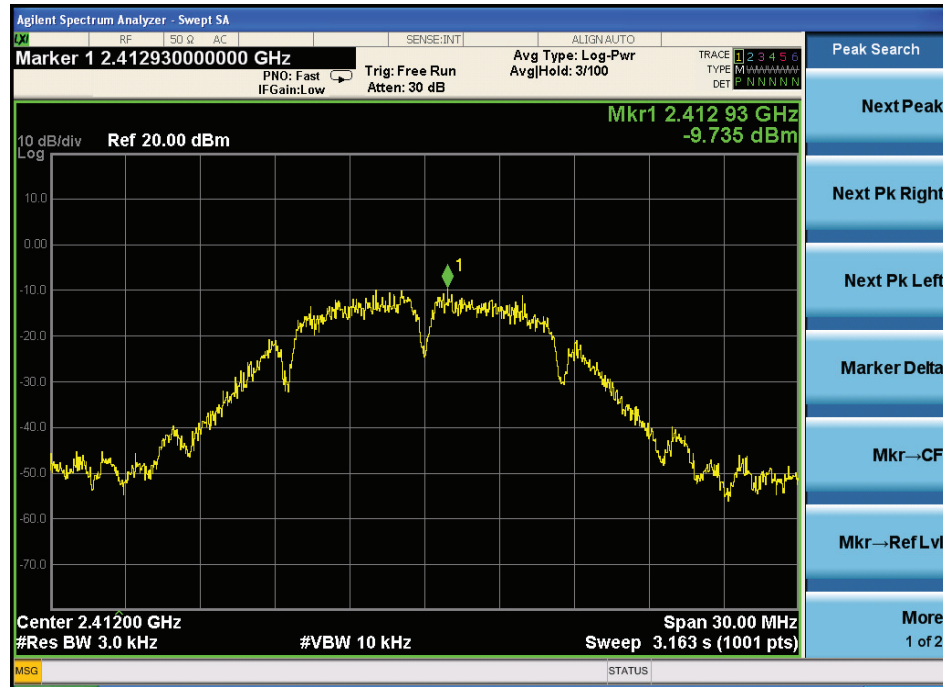
8.3 Test Setup



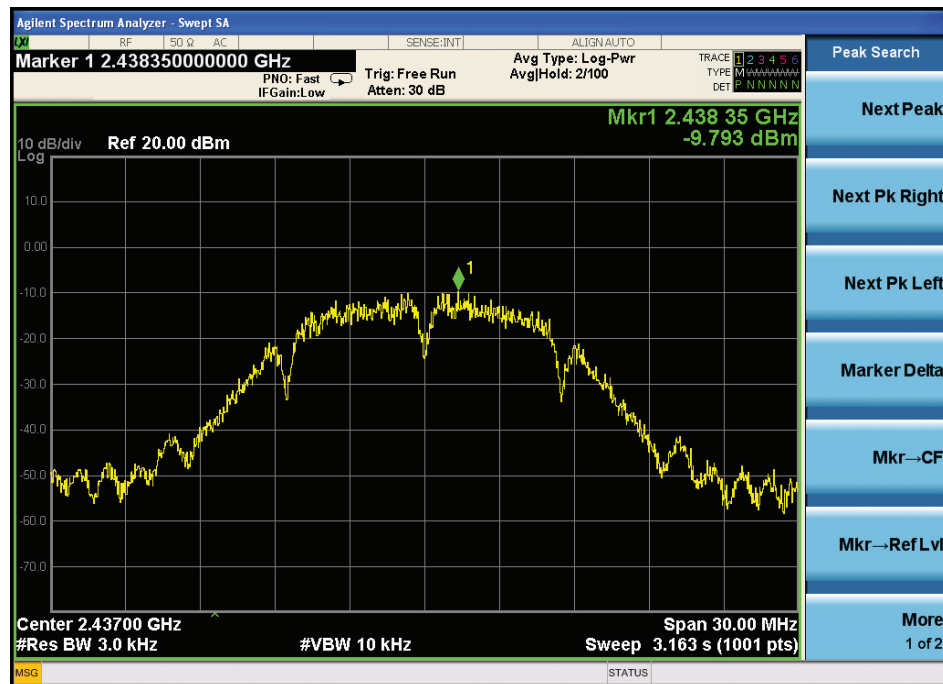
PASS.
Detailed information please see the following page.

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			
Conclusion: PASS						

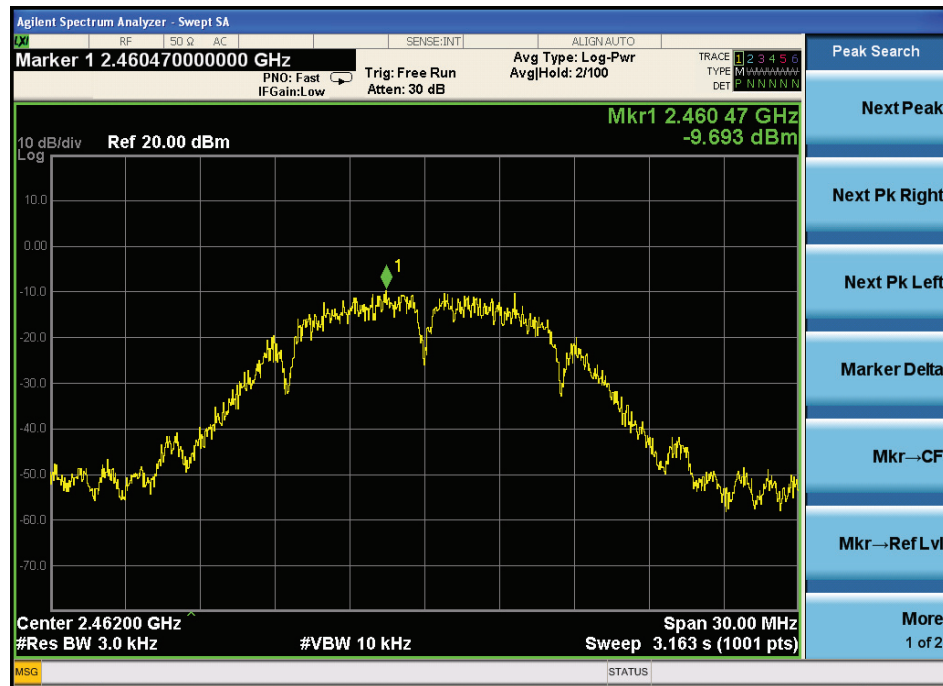
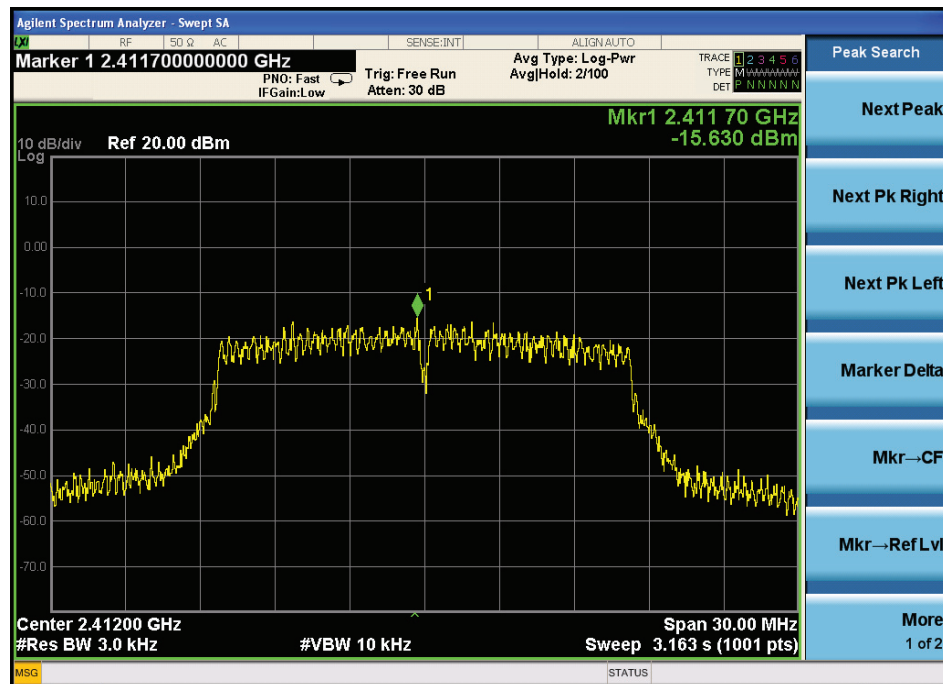
Port 0 antenna
IEEE 802.11b :
CH Low :



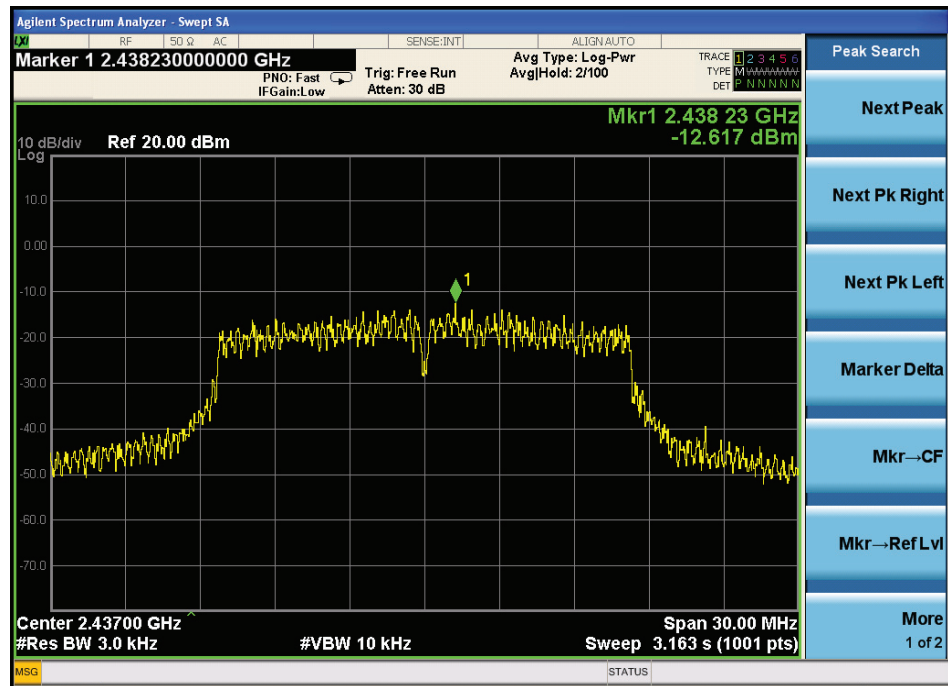
CH Mid:



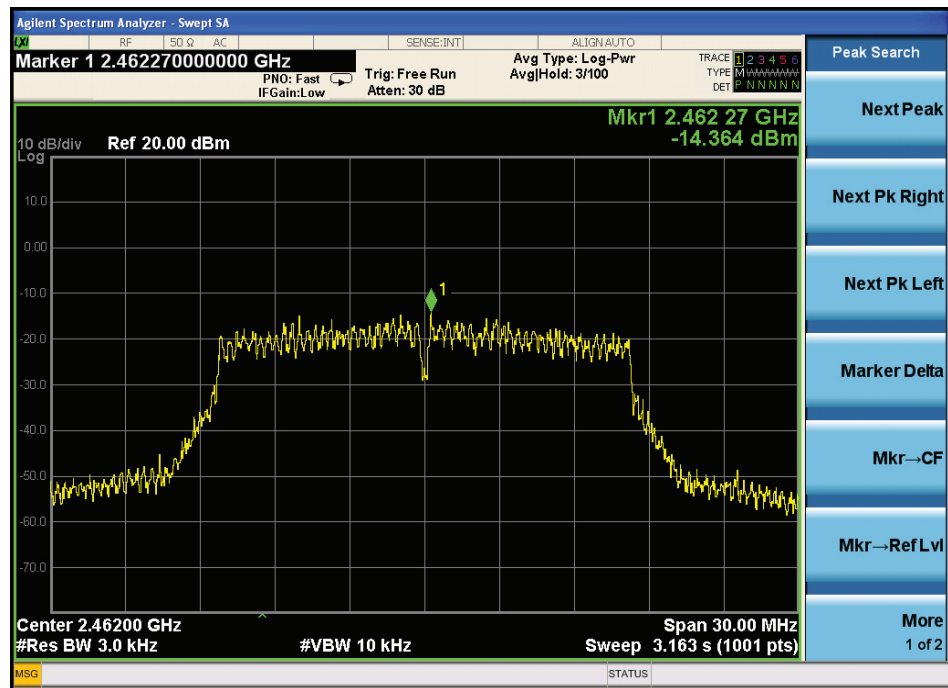
CH Hig:

IEEE 802.11g :
CH Low

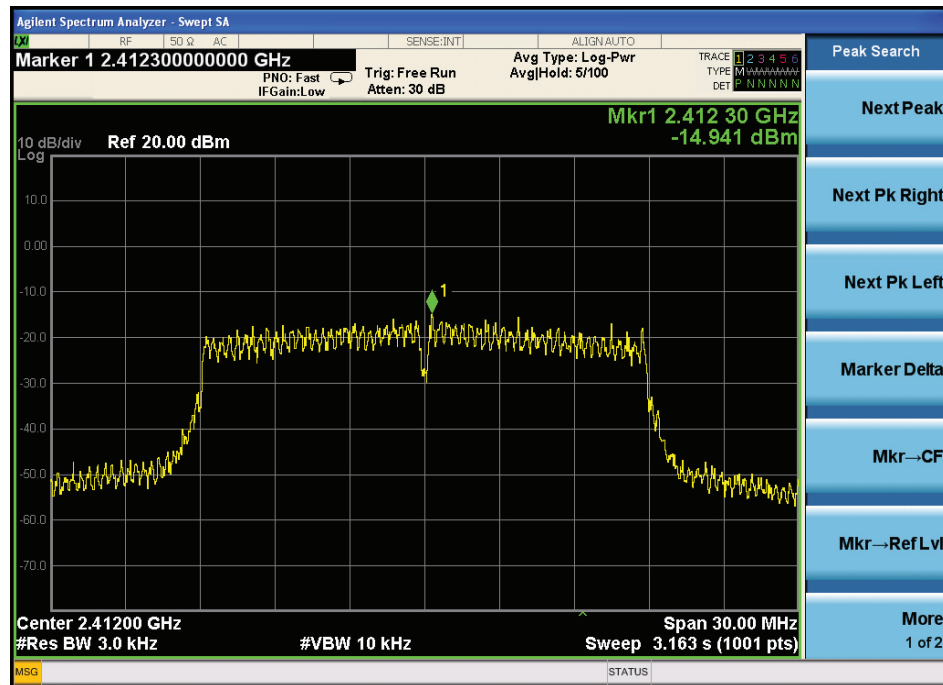
CH Mid:



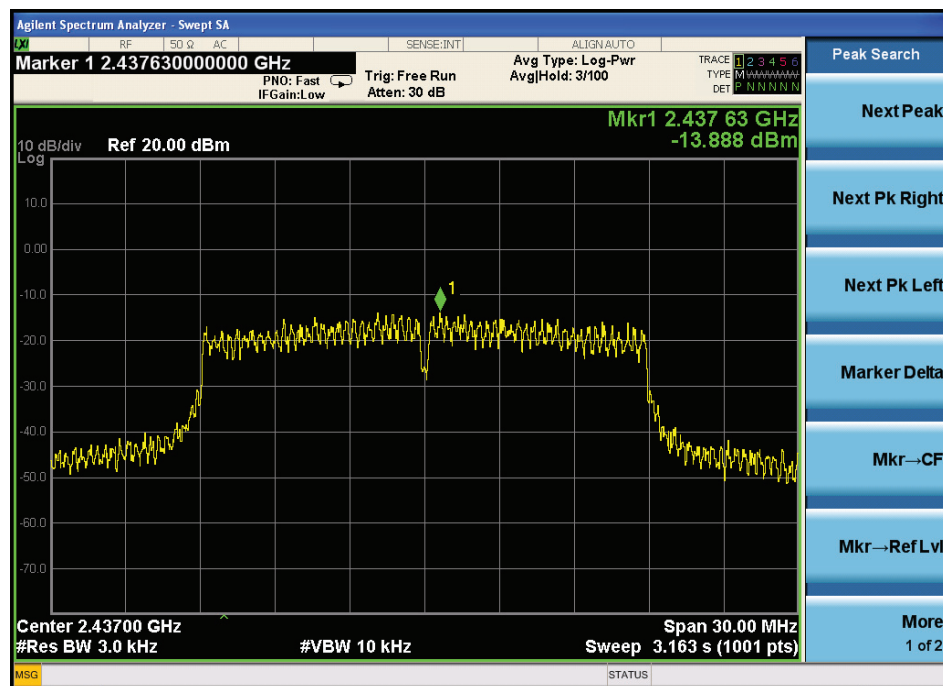
CH Hig:



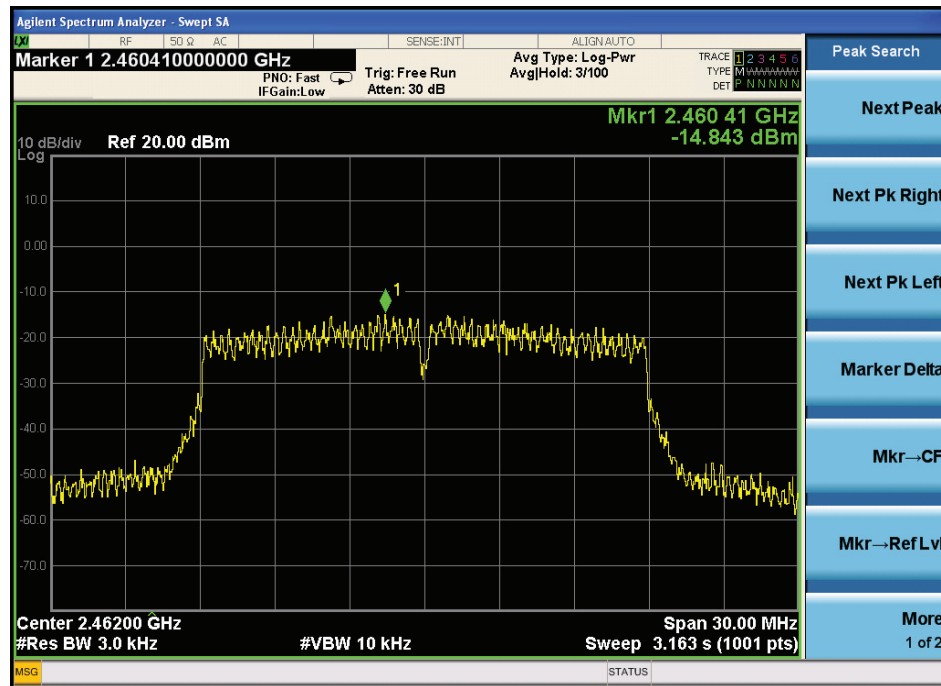
IEEE 802.11n HT20 :
CH Low :



CH Mid:



CH Hig:



IEEE 802.11n HT40 :

CH Low :

