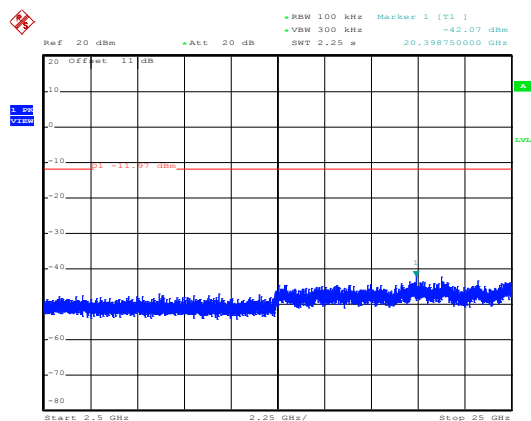
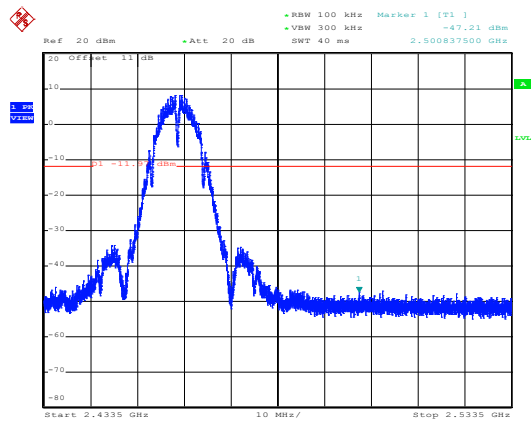
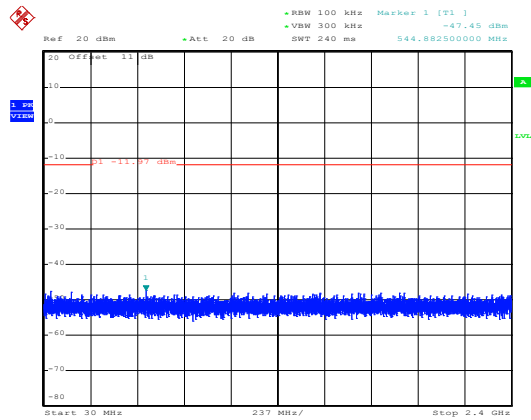




ANT 2

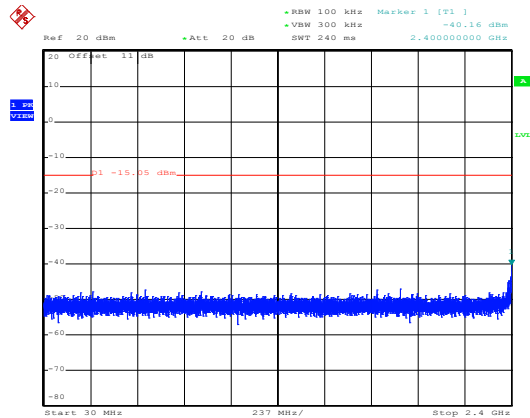
Modulation Type: 802.11b, CH 11



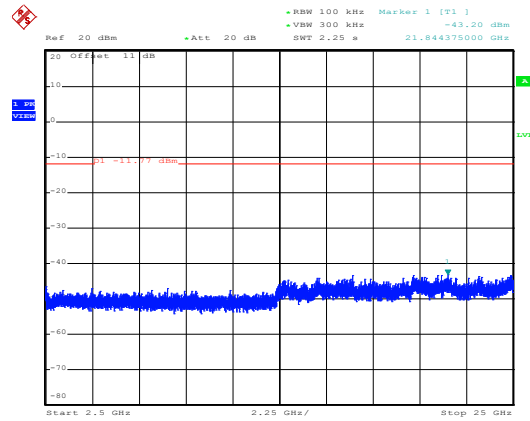
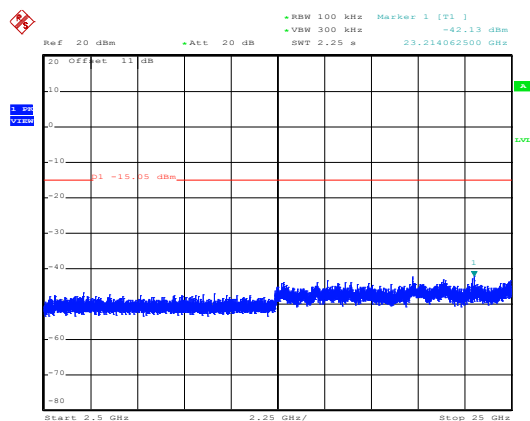
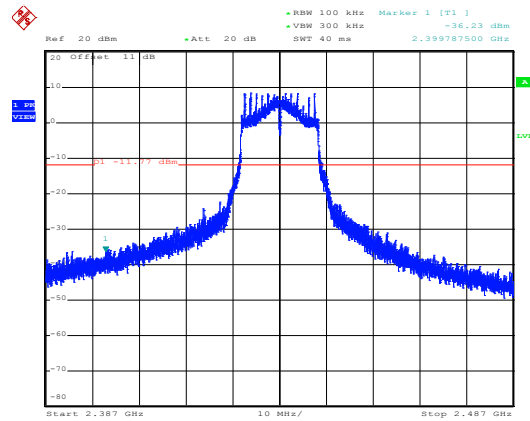
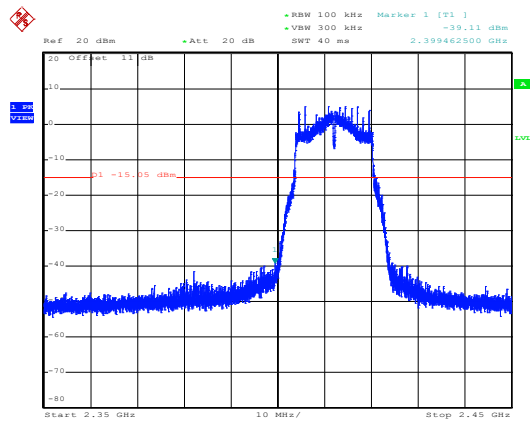
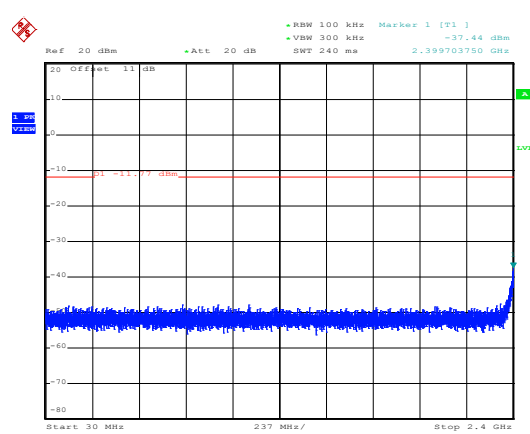


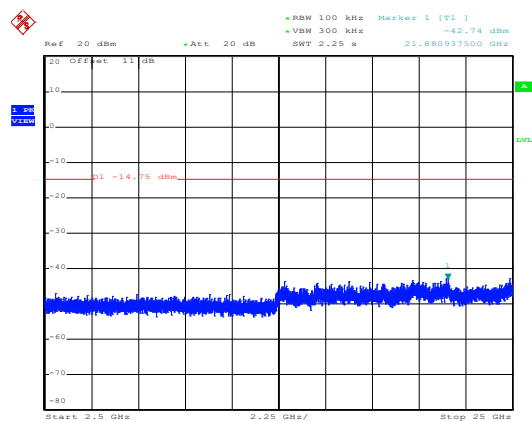
ANT 2

Modulation Type: 802.11g, CH 01



Modulation Type: 802.11g, CH 06

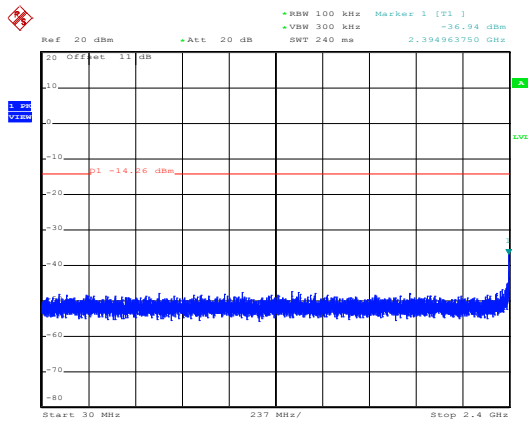




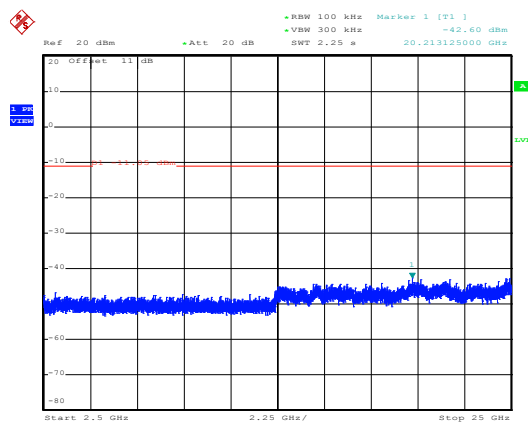
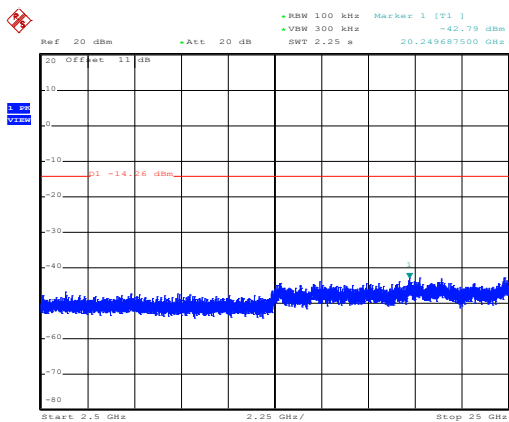
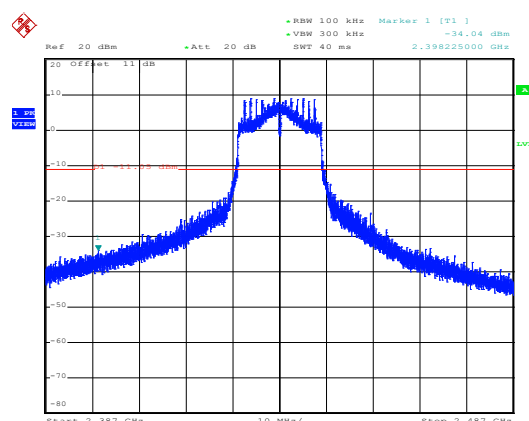
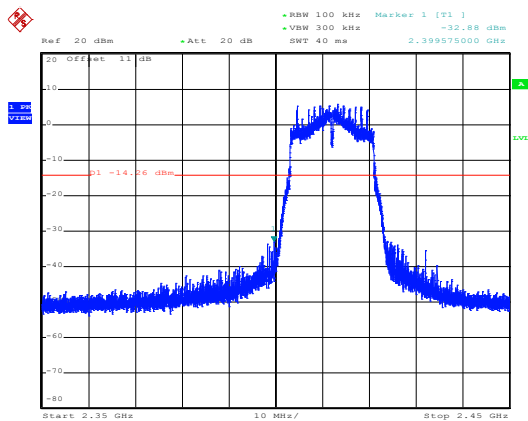
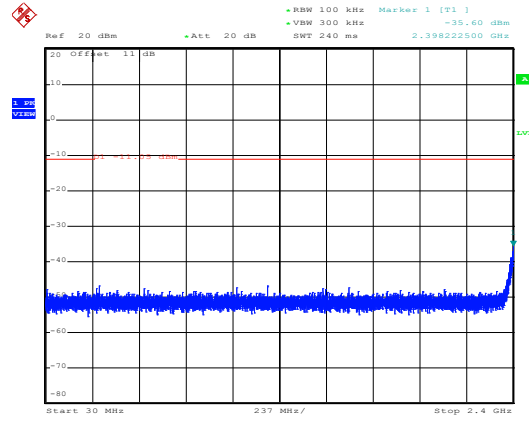


ANT 2

Modulation Type: 802.11ac VHT20, CH01



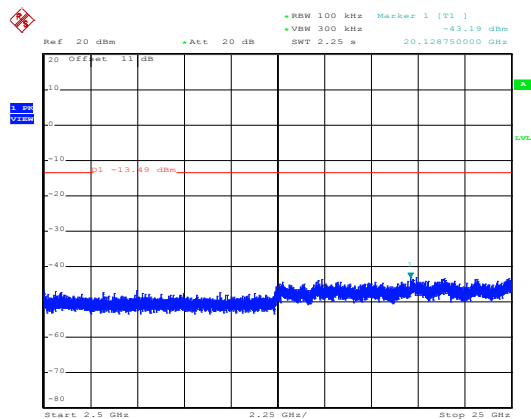
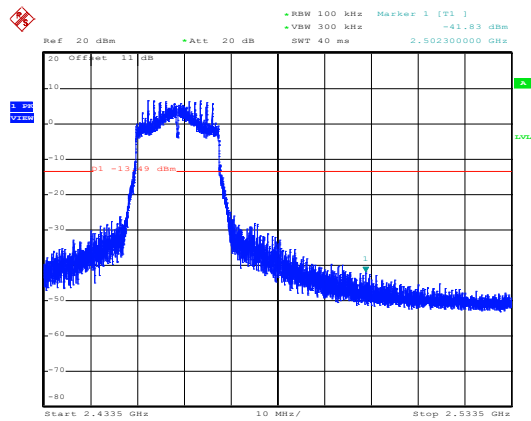
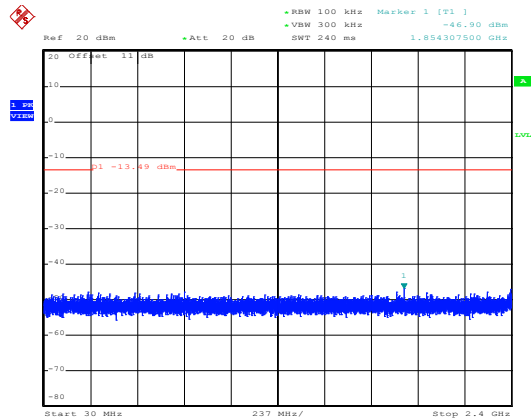
Modulation Type: 802.11ac VHT20, CH06





ANT 2

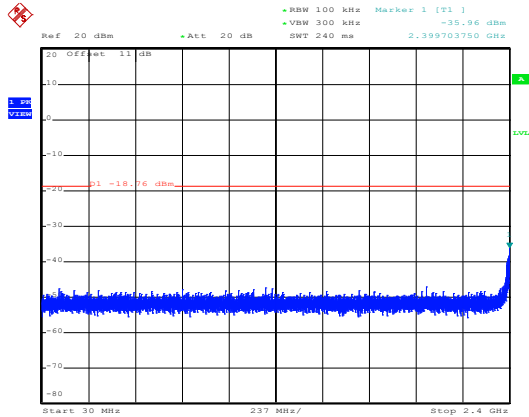
Modulation Type: 802.11ac VHT20, CH11



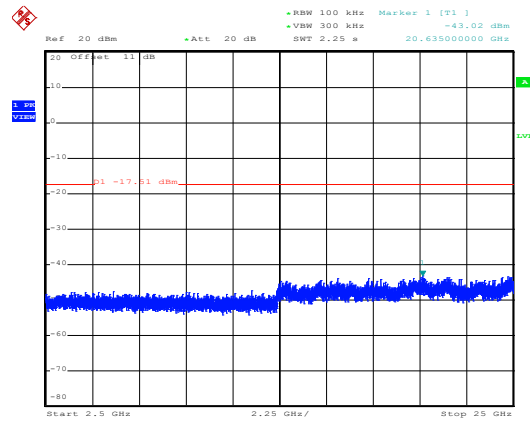
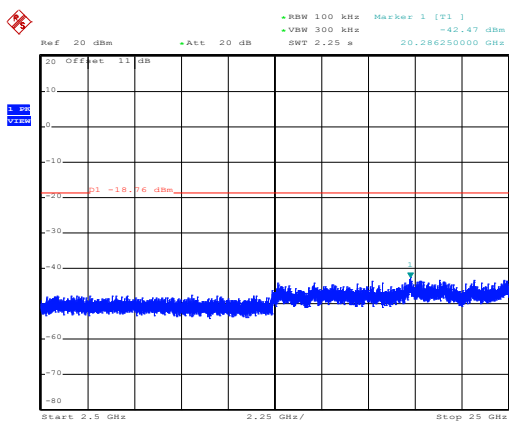
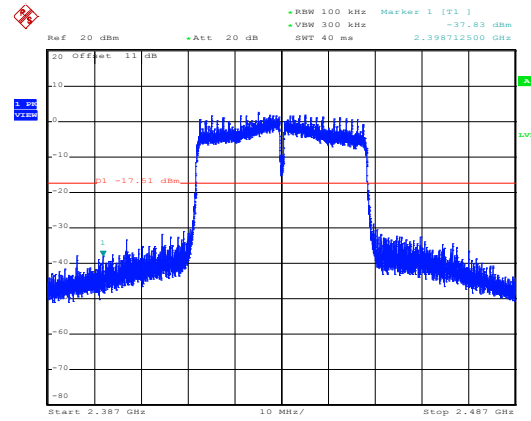
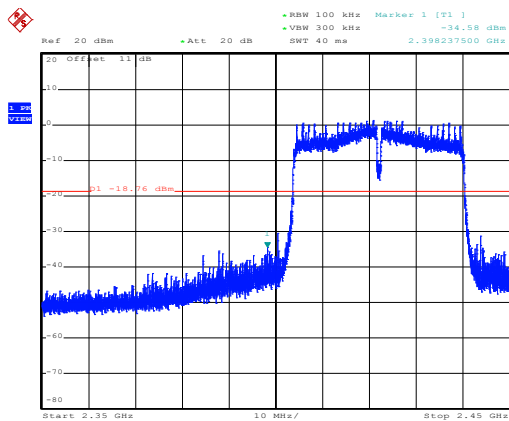
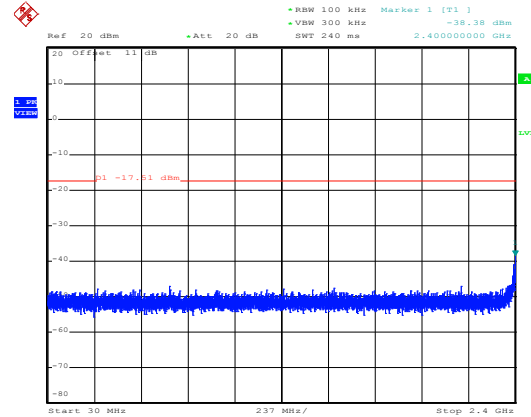


ANT 2

Modulation Type: 802.11ac VHT40, CH03



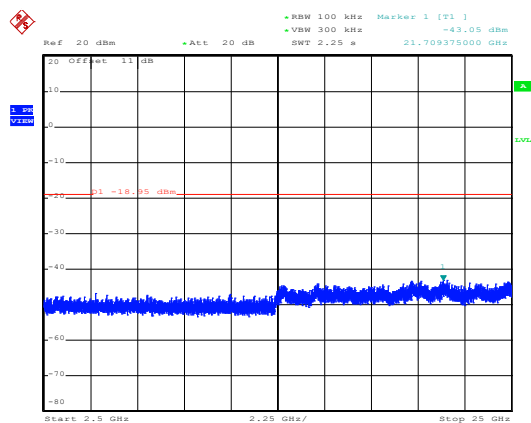
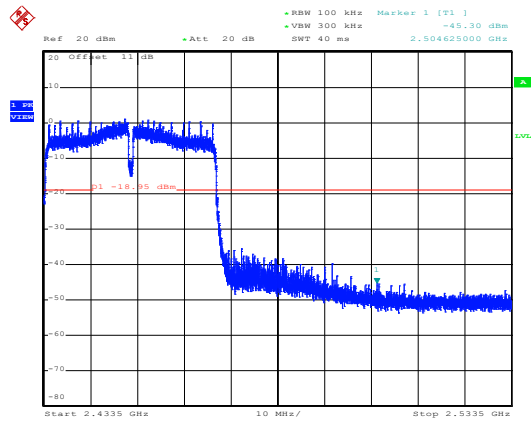
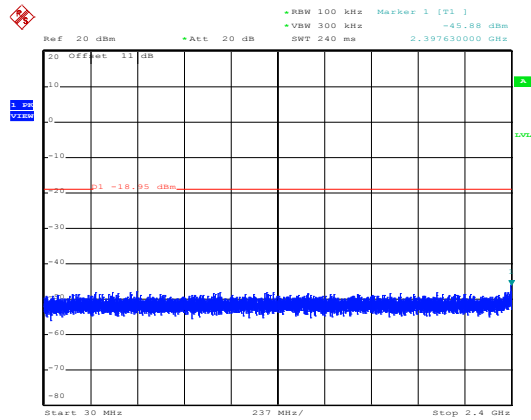
Modulation Type: 802.11ac VHT40, CH06





ANT 2

Modulation Type: 802.11ac VHT40, CH09





8. 6dB Bandwidth Measurement Data

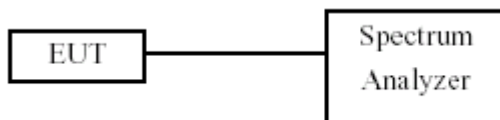
8.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

8.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 1~5% of the emission bandwidth and VBW $\geq 3 \times$ RBW.
- The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- The 6dB Bandwidth was measured and recorded.

8.3 Test Setup Layout



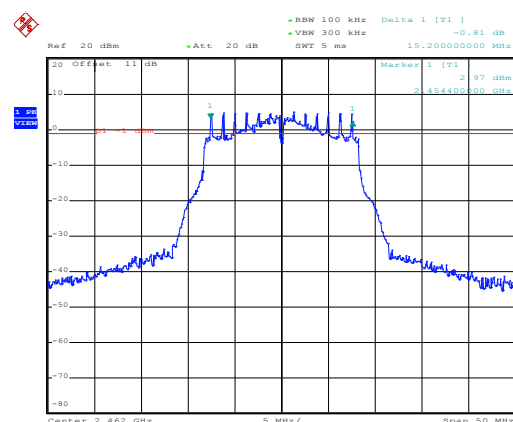
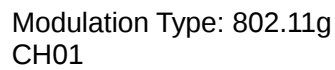
8.4 Test Result and Data

Temperature : 24°C

Humidity : 63%

Test Date : Apr. 13, 2017

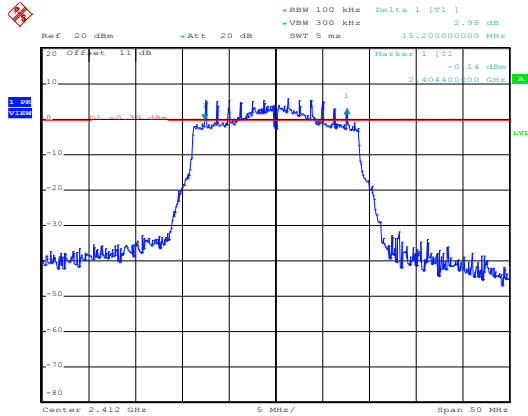
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT 1	ANT 2	
IEEE 802.11b (1Mbps)	01	2412	7.10	7.60	0.5
	06	2437	7.00	7.60	0.5
	11	2462	8.00	7.20	0.5
IEEE 802.11g (6Mbps)	01	2412	15.20	15.70	0.5
	06	2437	15.20	15.20	0.5
	11	2462	15.20	15.20	0.5
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	15.20	15.80	0.5
	06	2437	15.20	15.70	0.5
	11	2462	15.20	15.70	0.5
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	35.20	35.20	0.5
	06	2437	35.20	35.20	0.5
	09	2452	35.20	35.40	0.5



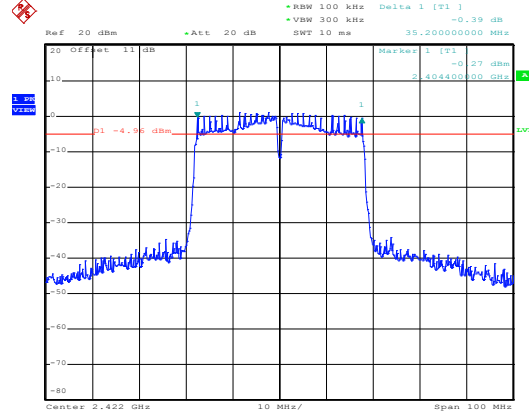


ANT 1

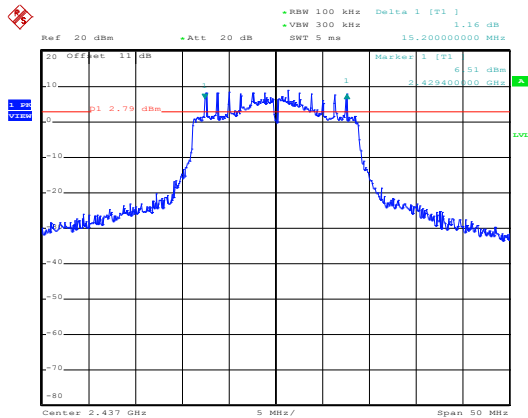
Modulation Type: 802.11ac VHT20
CH01



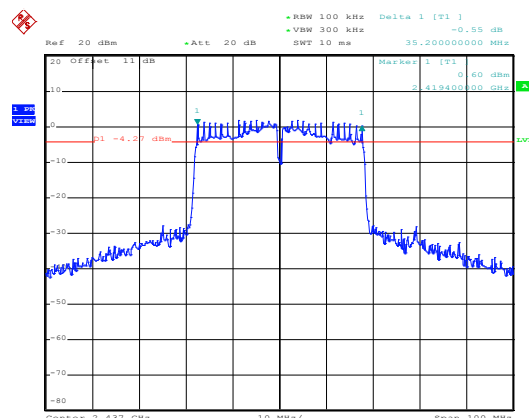
Modulation Type: 802.11ac VHT40
CH03



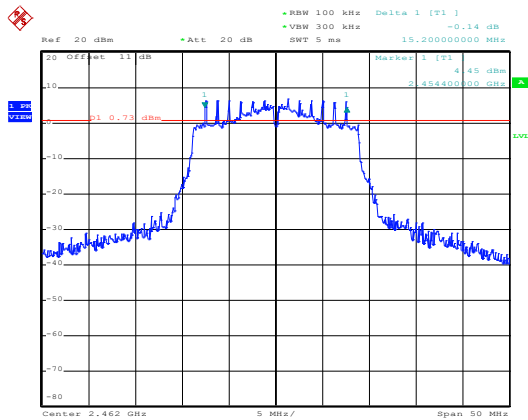
CH06



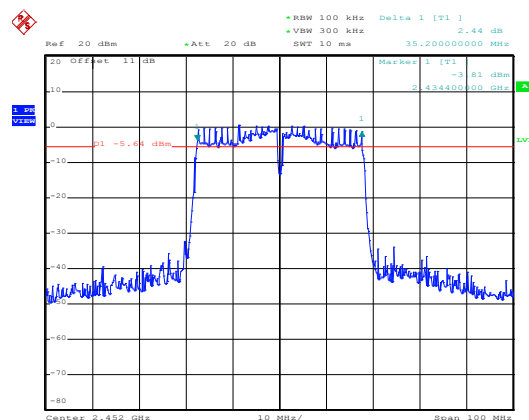
CH06



CH11

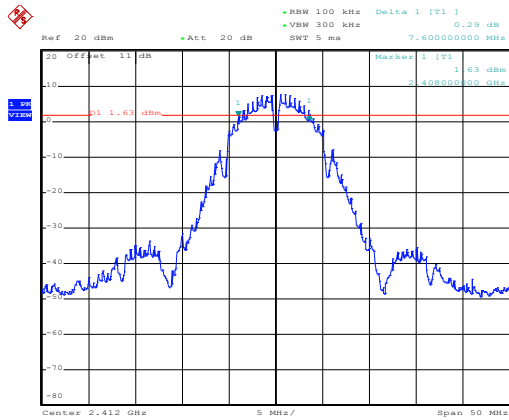


CH09

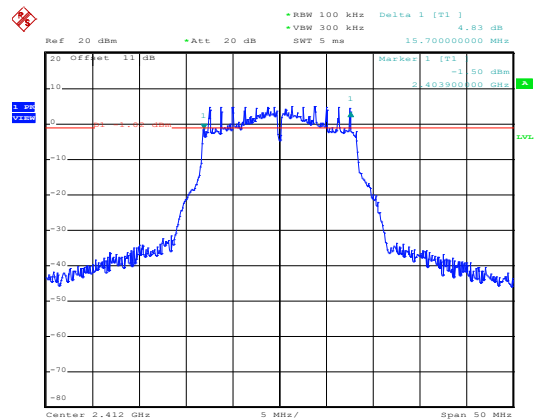




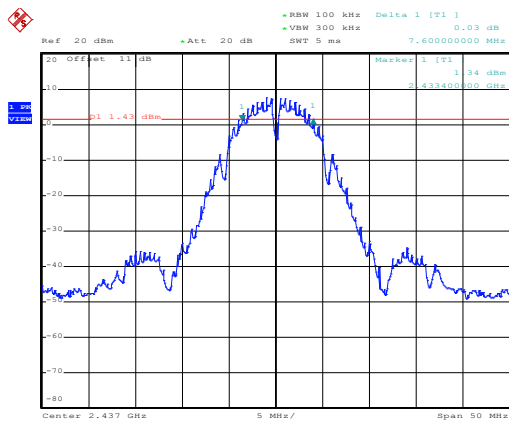
ANT 2
Modulation Type: 802.11b
CH01



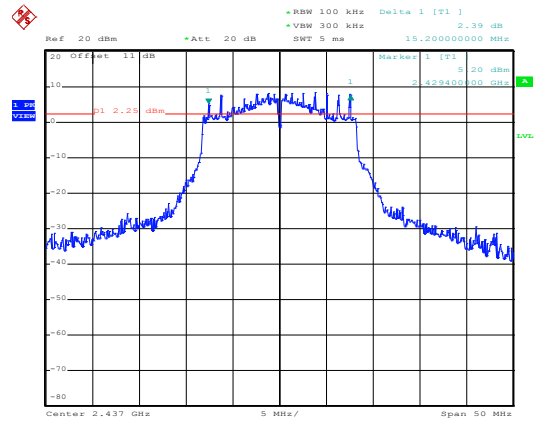
Modulation Type: 802.11g
CH01



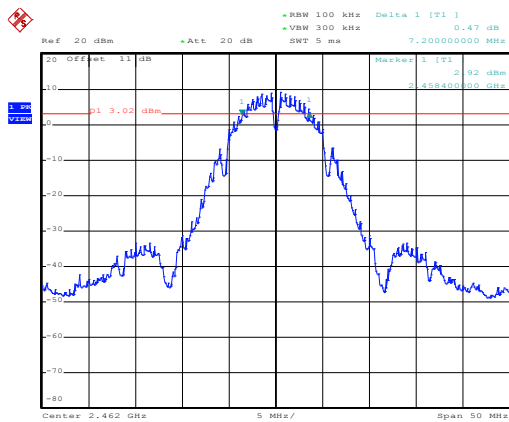
CH06



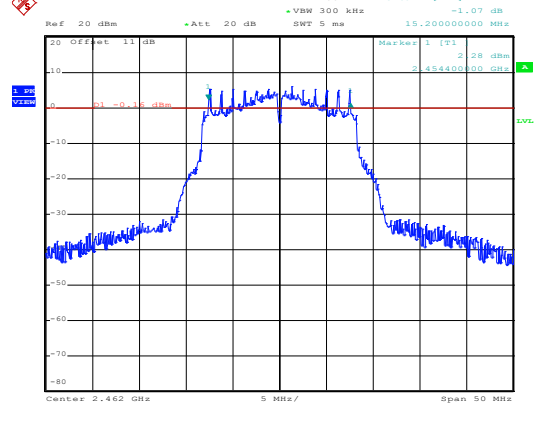
CH06



CH11

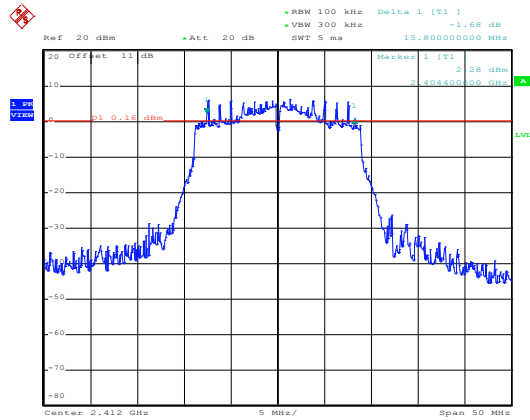
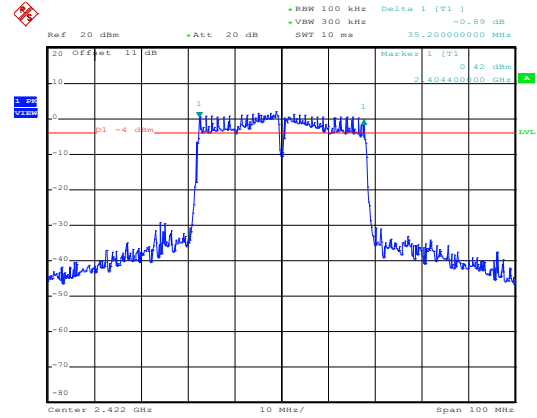


CH11

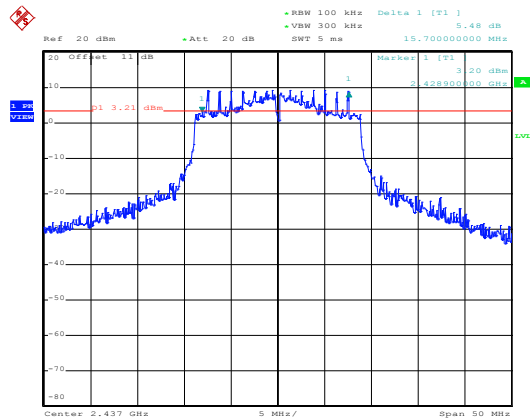




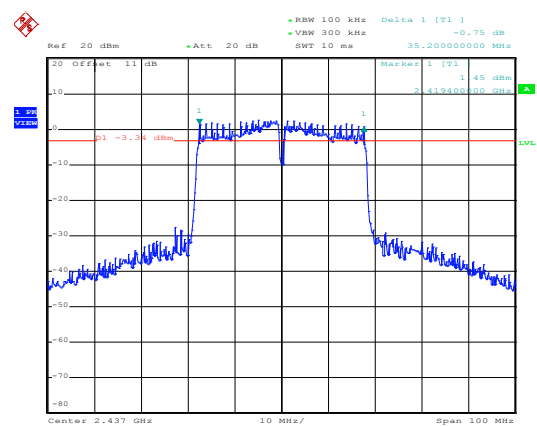
ANT 2

Modulation Type: 802.11ac VHT20
CH01Modulation Type: 802.11ac VHT40
CH03

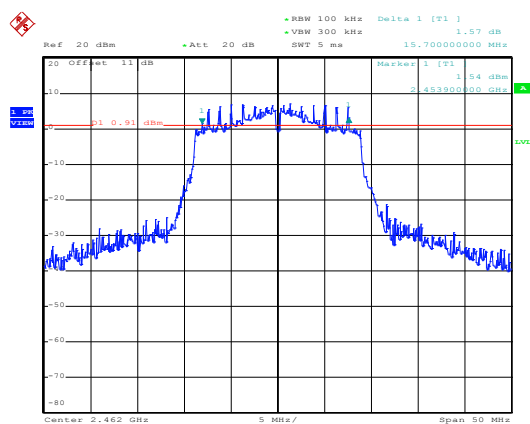
CH06



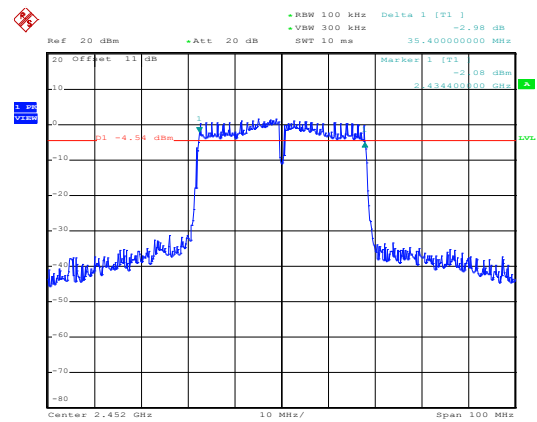
CH06



CH11



CH09





9. Maximum Peak and Average Output Power

9.1 Test Limit

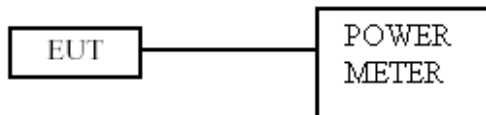
The Maximum Peak Output Power Measurement is 30dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

9.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

9.3 Test Setup Layout



9.4 Test Result and Data

Temperature : 24°C

Humidity : 63%

Test Date : Apr. 13, 2017

Modulation Type	Channel	Frequency (MHz)	Peak Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT 1	ANT 2			
IEEE 802.11b (1Mbps)	01	2412	18.35	18.6	21.49	140.83	30.00
	06	2437	17.87	18.15	21.02	126.55	30.00
	11	2462	19.33	19.57	22.46	176.28	30.00
IEEE 802.11g (6Mbps)	01	2412	24.25	25.97	28.20	661.44	30.00
	06	2437	25.79	26.33	29.08	808.85	30.00
	11	2462	25.59	25.91	28.76	752.18	30.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	25.36	25.73	28.56	717.67	30.00
	06	2437	25.94	26.11	29.04	800.96	30.00
	11	2462	25.61	25.95	28.79	757.47	30.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	24.28	24.43	27.37	545.25	30.00
	06	2437	24.93	24.87	27.91	618.07	30.00
	09	2452	23.54	24.11	26.84	483.58	30.00
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	25.57	25.88	28.74	747.84	30.00
	06	2437	26.07	26.38	29.24	839.09	30.00
	11	2462	25.74	26.04	28.90	776.76	30.00
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	24.43	24.66	27.56	569.75	30.00
	06	2437	25.05	25.11	28.09	644.23	30.00
	09	2452	23.67	24.33	27.02	503.83	30.00



Modulation Type	Channel	Frequency (MHz)	Avg. Power Output (dBm)		Total Power (dBm)	Total Power (mW)	Power Limit (dBm)
			ANT 1	ANT 2			
IEEE 802.11b (1Mbps)	01	2412	15.26	15.48	18.38	68.89	30.00
	06	2437	14.78	15.05	17.93	62.05	30.00
	11	2462	16.28	16.44	19.37	86.52	30.00
IEEE 802.11g (6Mbps)	01	2412	15.25	15.86	18.58	72.04	30.00
	06	2437	18.56	19.15	21.88	154.00	30.00
	11	2462	15.44	15.78	18.62	72.84	30.00
IEEE 802.11n HT20 (6.5Mbps)	01	2412	15.76	16.03	18.91	77.76	30.00
	06	2437	19.18	19.73	22.47	176.77	30.00
	11	2462	16.62	17.01	19.83	96.15	30.00
IEEE 802.11n HT40 (13.5Mbps)	03	2422	15.02	15.69	18.38	68.84	30.00
	06	2437	16.24	16.15	19.21	83.28	30.00
	09	2452	14.72	15.16	17.96	62.46	30.00
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	15.88	16.22	19.06	80.61	30.00
	06	2437	19.33	19.85	22.61	182.31	30.00
	11	2462	16.74	17.16	19.97	99.21	30.00
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	15.13	15.71	18.44	69.82	30.00
	06	2437	16.32	16.45	19.40	87.01	30.00
	09	2452	14.89	15.27	18.09	64.48	30.00

Note: Average power is for reference only.



10. Power Spectral Density

10.1 Test Limit

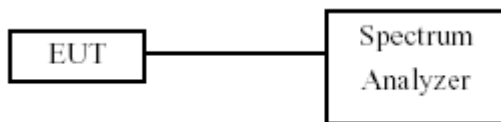
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- The spectrum analyzer's resolution bandwidth were set at 3kHz RBW and 30KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- The power spectral density was measured and recorded.

10.3 Test Setup Layout



10.4 Test Result and Data

Temperature : 24°C

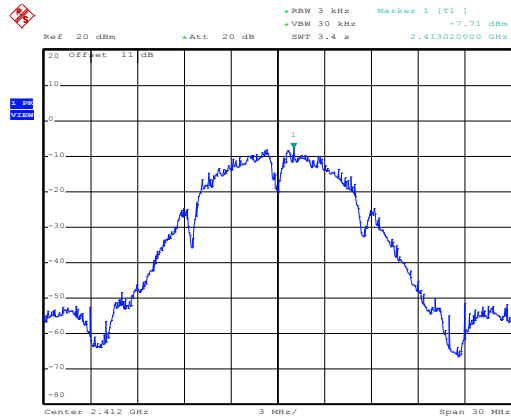
Humidity : 63%

Test Date : Apr. 13, 2017

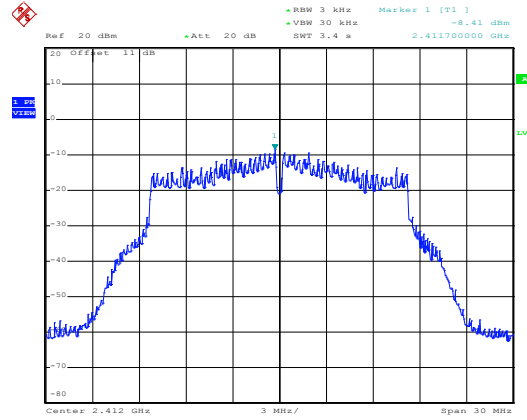
Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3 kHz Bandwidth (dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT 1	ANT 2				
IEEE 802.11b (1Mbps)	01	2412	-7.71	-7.11	-4.39	0.00	-4.39	8.00
	06	2437	-8.16	-7.43	-4.77	0.00	-4.77	8.00
	11	2462	-5.83	-6.79	-3.27	0.00	-3.27	8.00
IEEE 802.11g (6Mbps)	01	2412	-8.41	-6.95	-4.61	0.00	-4.61	8.00
	06	2437	-4.55	-4.16	-1.34	0.00	-1.34	8.00
	11	2462	-8.39	-8.37	-5.37	0.00	-5.37	8.00
IEEE 802.11ac VHT20 (6.5Mbps)	01	2412	-7.15	-7.72	-4.42	0.00	-4.42	8.00
	06	2437	-4.72	-4.51	-1.60	0.00	-1.60	8.00
	11	2462	-7.51	-5.81	-3.57	0.00	-3.57	8.00
IEEE 802.11ac VHT40 (13.5Mbps)	03	2422	-12.63	-11.93	-9.26	0.00	-9.26	8.00
	06	2437	-11.01	-10.8	-7.89	0.00	-7.89	8.00
	09	2452	-12.28	-11.17	-8.68	0.00	-8.68	8.00



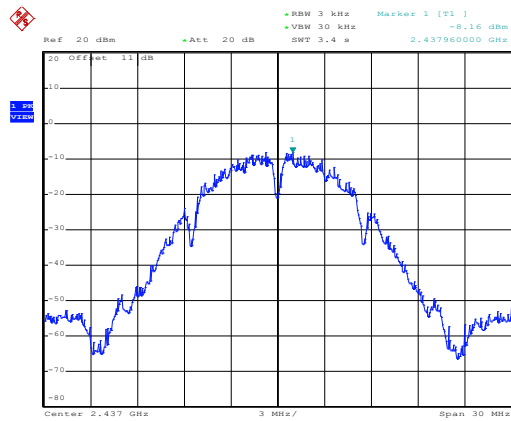
ANT 1
Modulation Type: 802.11b
CH01



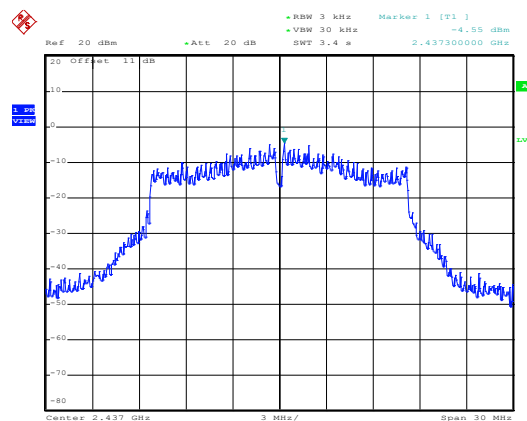
Modulation Type: 802.11g
CH01



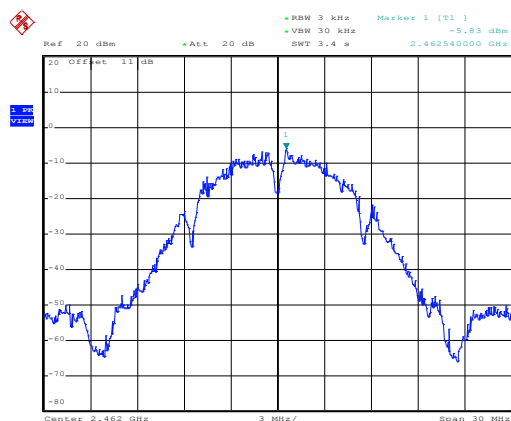
CH06



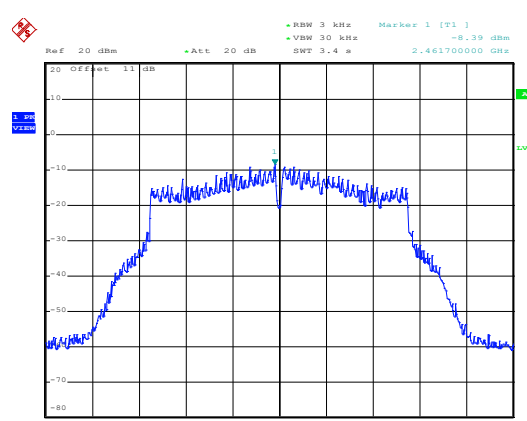
CH06



CH11

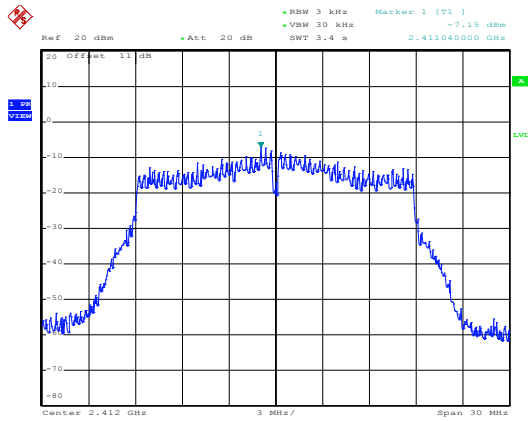


CH11

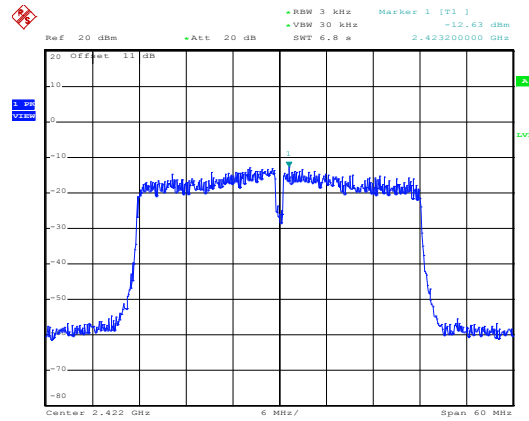




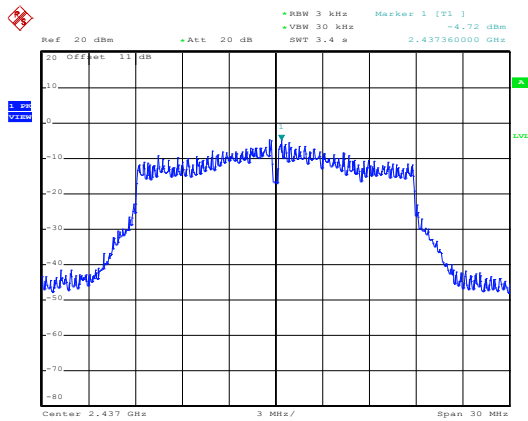
ANT 1
Modulation Type: 802.11ac VHT20
CH01



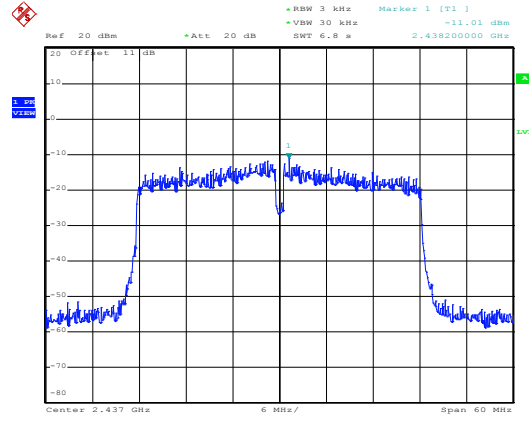
Modulation Type: 802.11ac VHT40
CH03



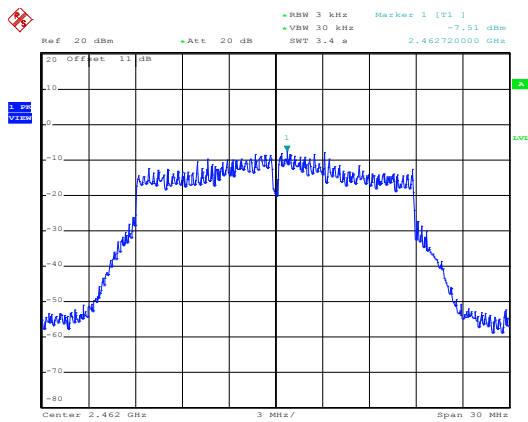
CH06



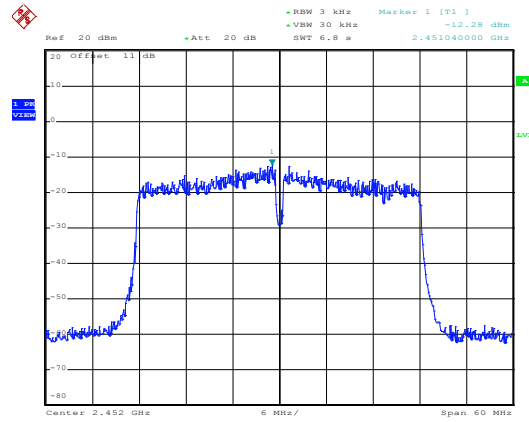
CH06



CH11

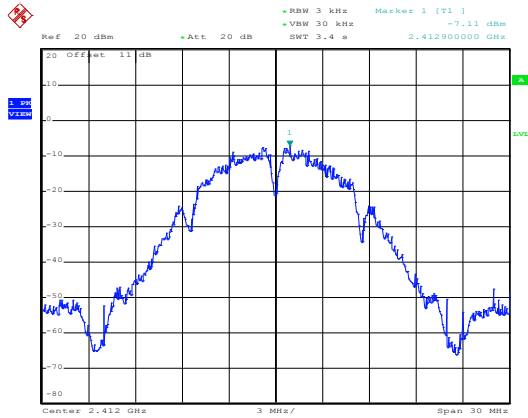


CH09

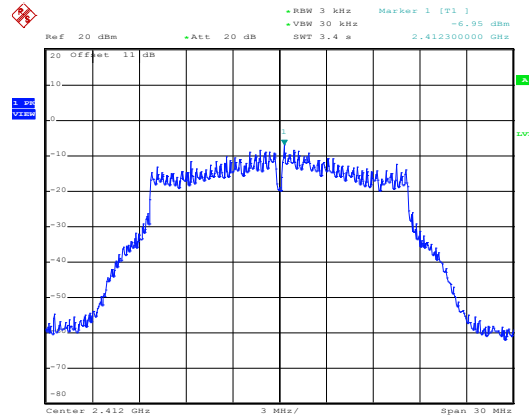




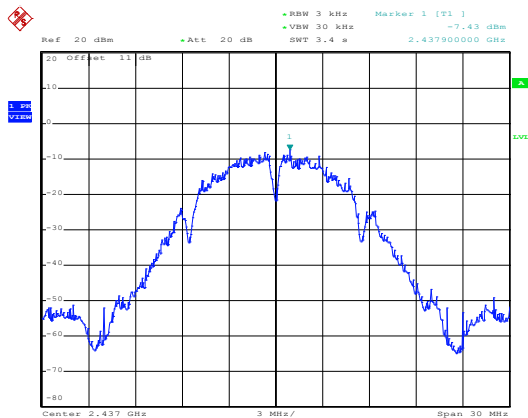
ANT 2
Modulation Type: 802.11b
CH01



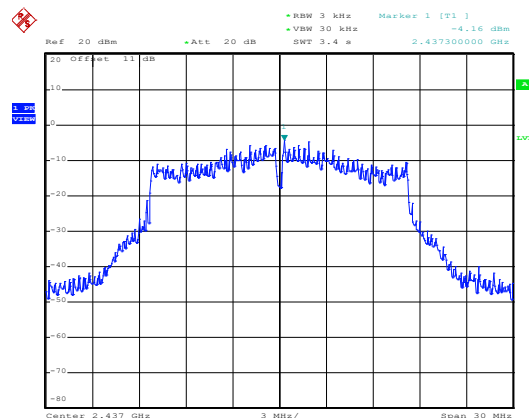
Modulation Type: 802.11g
CH01



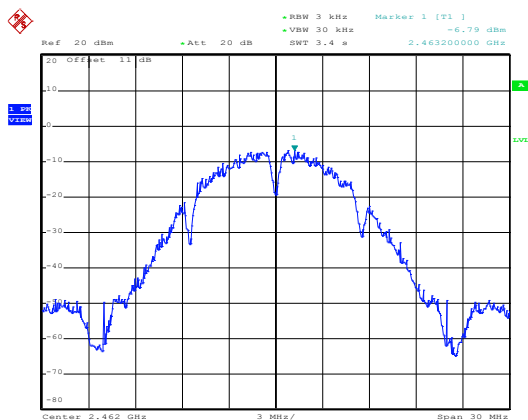
CH06



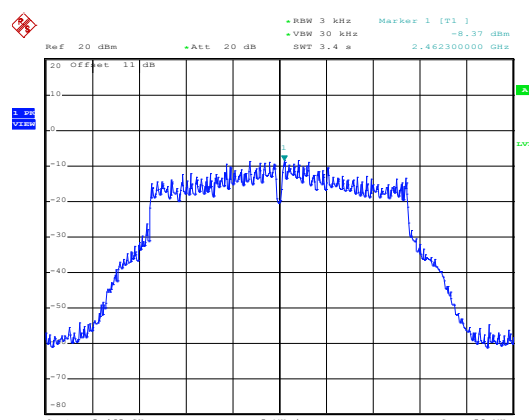
CH06



CH11

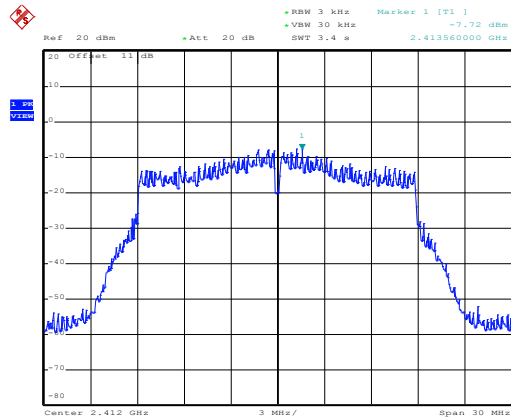


CH11

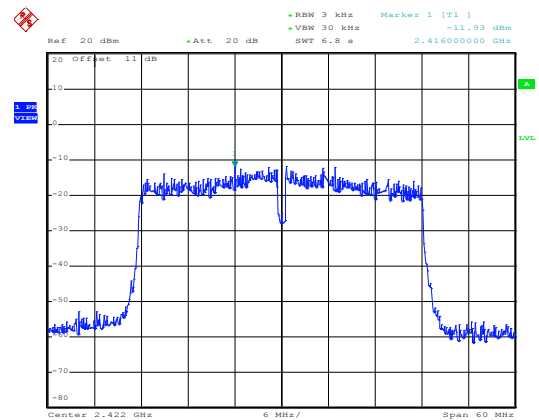




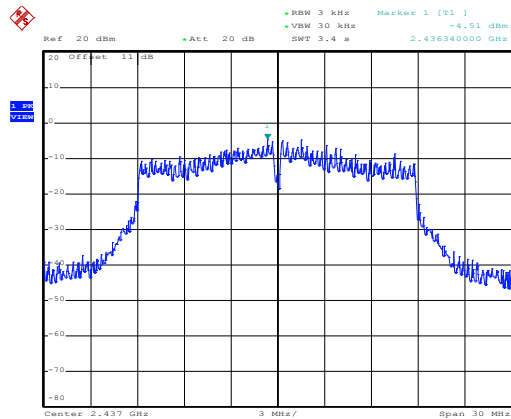
ANT 2
Modulation Type: 802.11ac VHT20
CH01



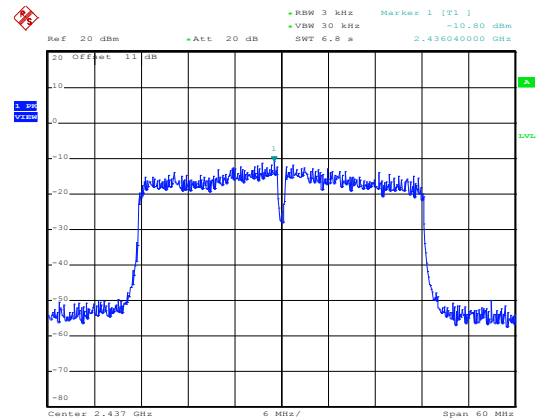
Modulation Type: 802.11ac VHT40
CH03



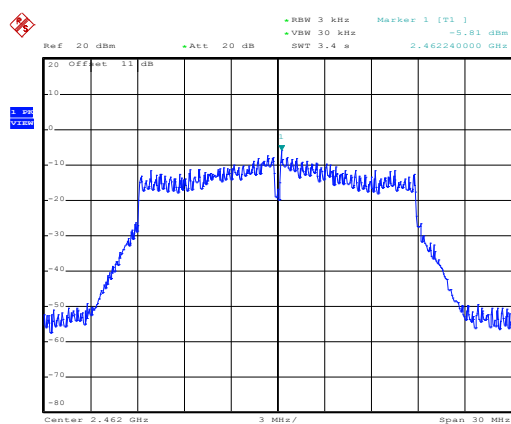
CH06



CH06



CH11



CH09

