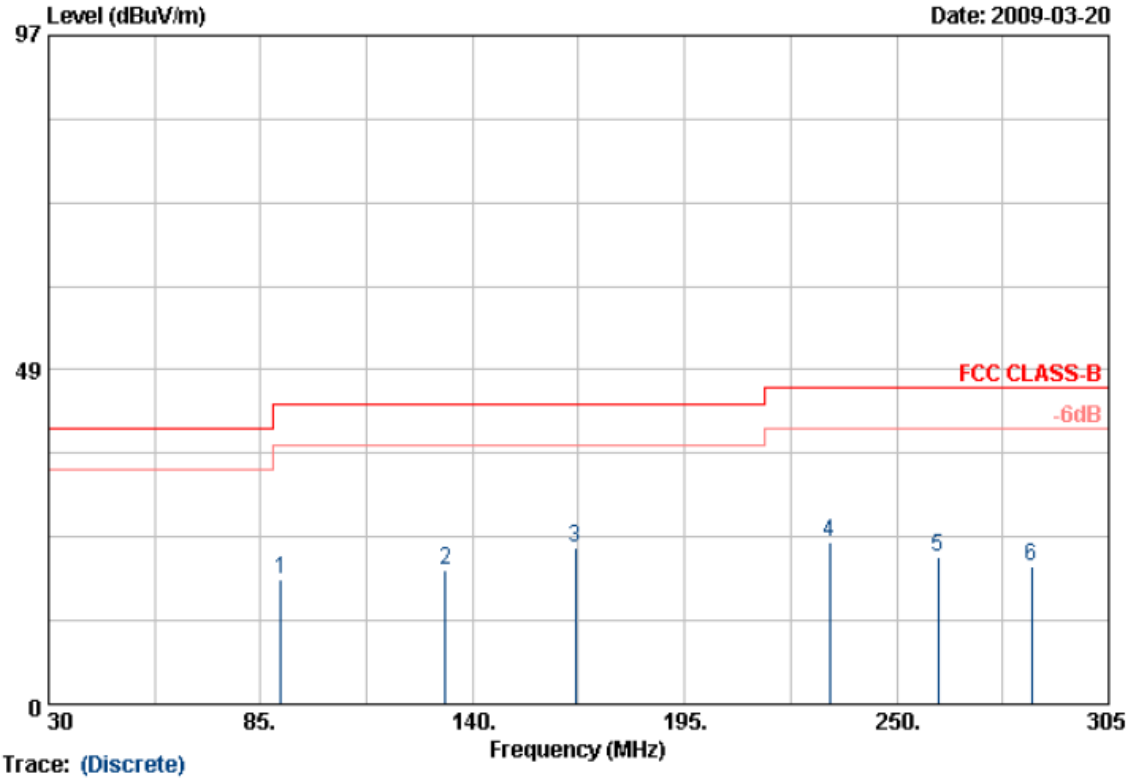
Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11n HT40, CH3	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



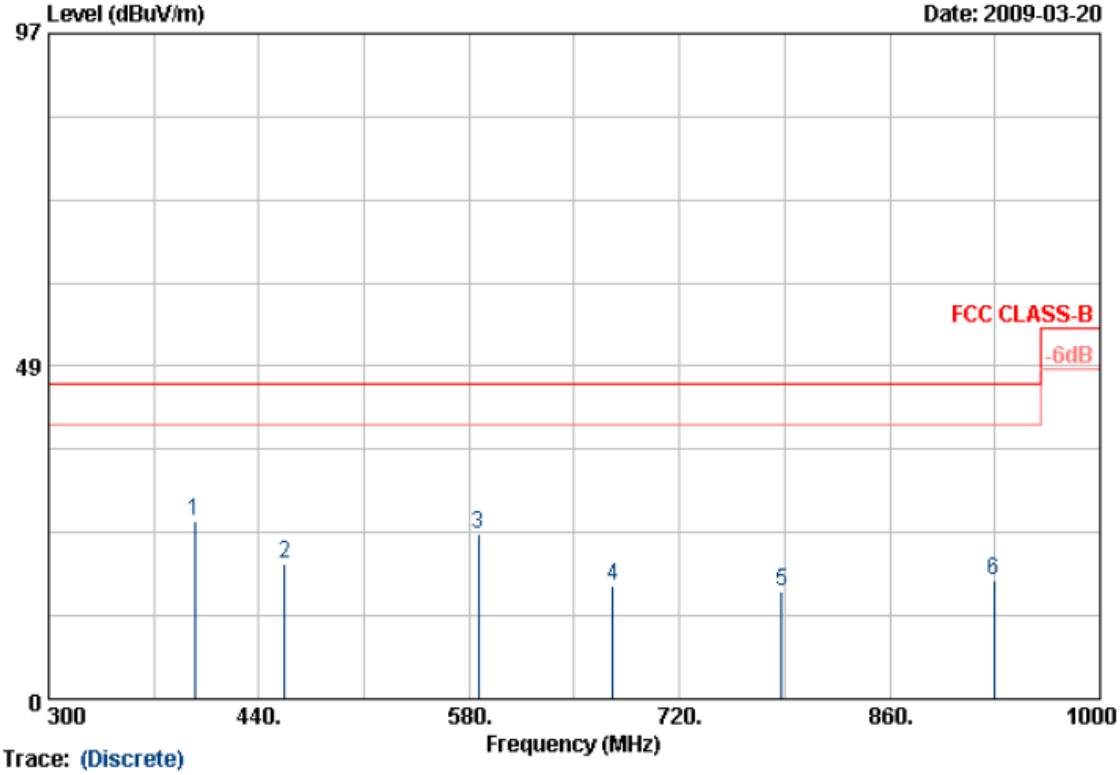
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	90.23	48.98	-30.86	18.12	43.50	-25.38	Peak	150	360
2	132.85	50.17	-30.79	19.38	43.50	-24.12	Peak	150	360
3	166.68	53.07	-30.40	22.67	43.50	-20.83	Peak	150	360
4	232.68	53.64	-30.09	23.55	46.00	-22.45	Peak	150	360
5	260.73	49.96	-28.65	21.31	46.00	-24.69	Peak	150	360
6	284.93	47.74	-27.77	19.97	46.00	-26.03	Peak	150	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11n HT40, CH3	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



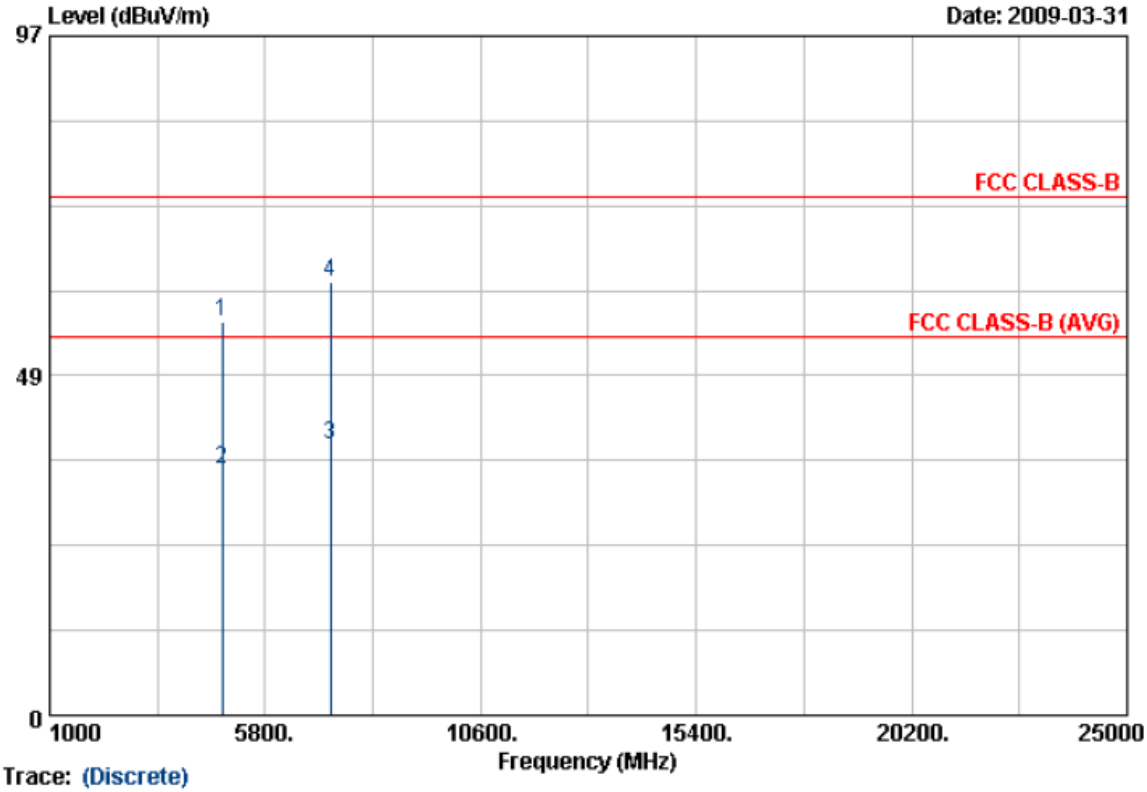
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	397.30	54.80	-28.82	25.98	46.00	-20.02	Peak	101	360
2	456.80	44.32	-24.49	19.83	46.00	-26.17	Peak	101	360
3	586.30	47.54	-23.60	23.94	46.00	-22.06	Peak	101	360
4	675.90	43.20	-26.63	16.57	46.00	-29.43	Peak	101	360
5	787.90	40.85	-25.18	15.67	46.00	-30.33	Peak	101	360
6	929.30	42.13	-24.79	17.34	46.00	-28.66	Peak	101	360

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. All emission below 1GHz at 802.11b/g mode are all the same,so the 802.11g mode chosen as representative in final test.
5. According to technical experiences,all spurious emission of 802.11g mode at channel 1,6,11 are almost the same below 1GHz,so that the channel 1 was chosen as representative in final test.
6. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11n HT40, CH3	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



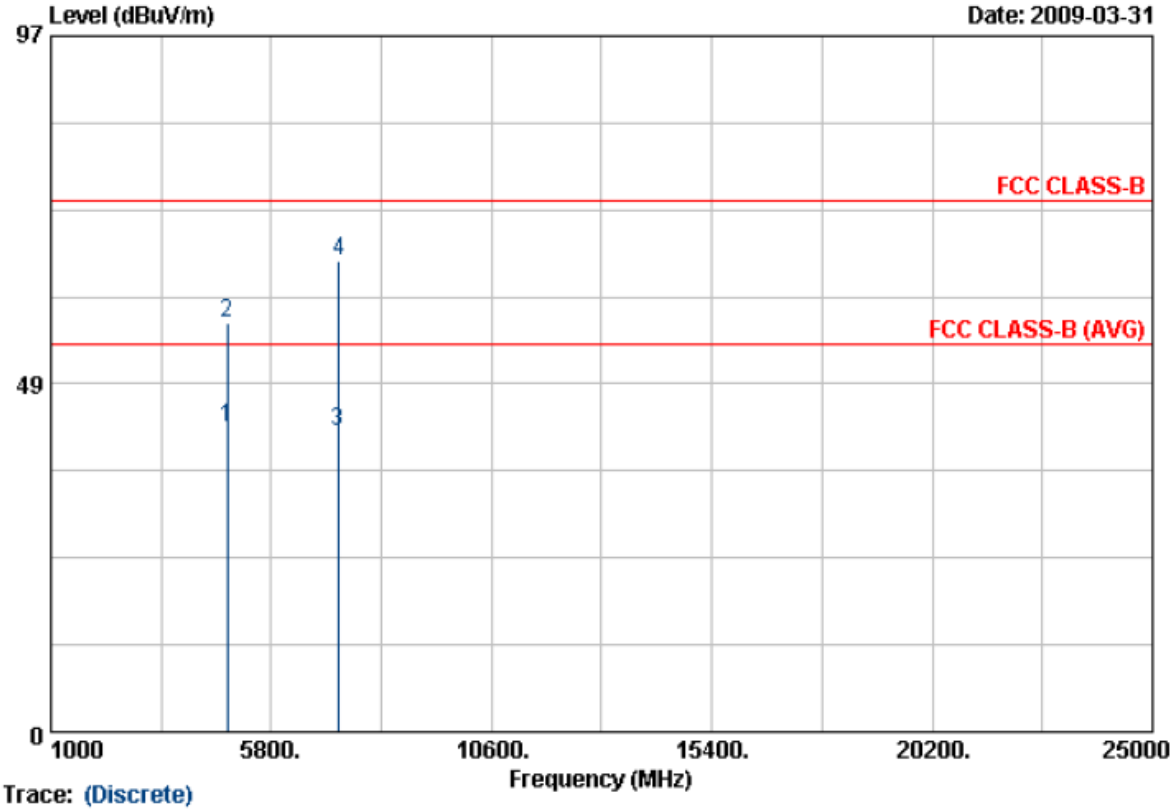
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4844.010	49.62	6.54	56.16	74.00	-17.84	Peak	150	180
2	4847.800	28.53	6.57	35.10	54.00	-18.90	Average	150	180
3	7261.680	22.93	15.65	38.58	54.00	-15.42	Average	150	180
4	7262.670	46.33	15.66	61.99	74.00	-12.01	Peak	150	180

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11n HT40, CH3	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



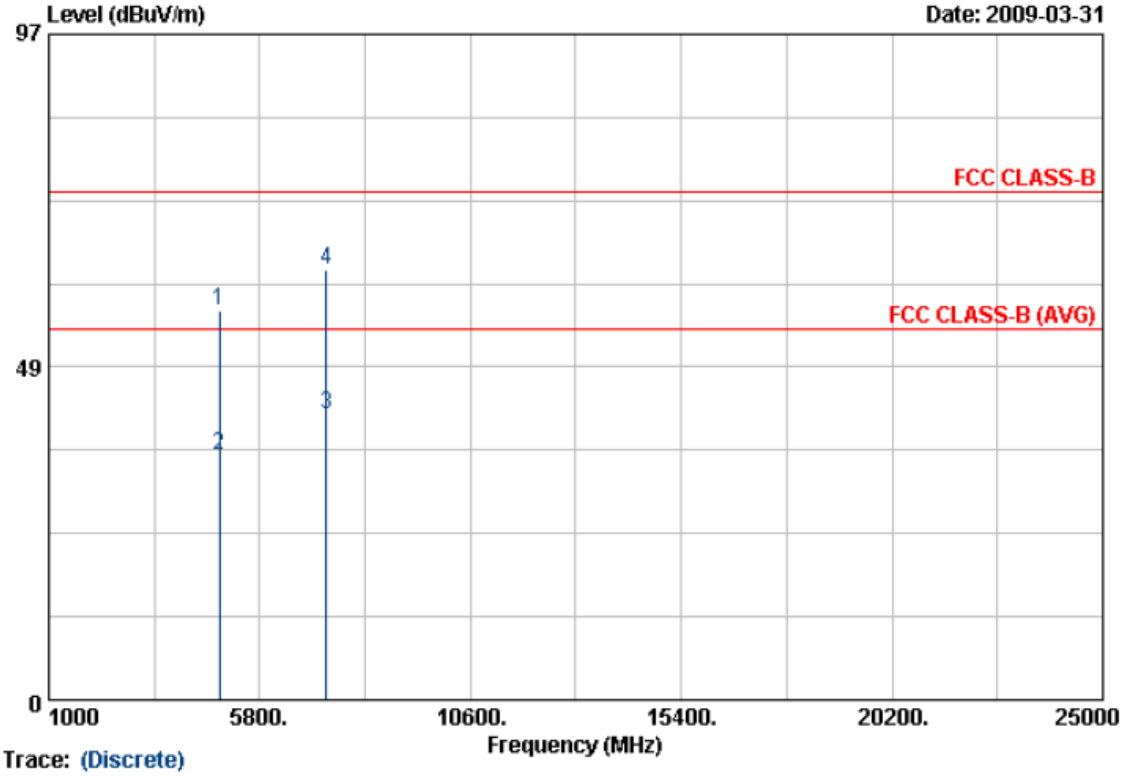
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4842.590	37.22	5.16	42.38	54.00	-11.62	Average	150	62
2	4848.020	51.84	5.19	57.03	74.00	-16.97	Peak	150	62
3	7261.140	29.18	12.79	41.97	54.00	-12.03	Average	150	62
4	7268.370	52.80	12.84	65.64	74.00	-8.36	Peak	150	62

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11n HT40, CH6	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



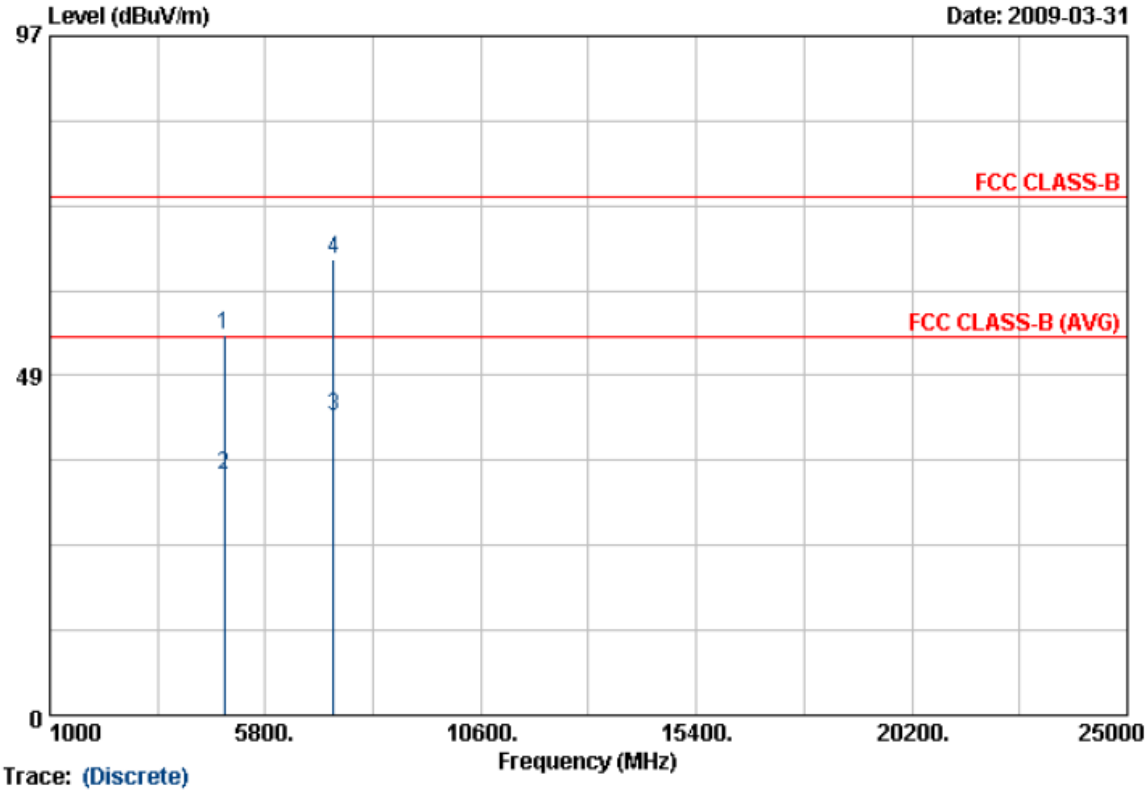
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4876.730	50.03	6.81	56.84	74.00	-17.16	Peak	150	180
2	4877.340	28.84	6.81	35.65	54.00	-18.35	Average	150	180
3	7312.980	25.70	15.99	41.69	54.00	-12.31	Average	150	180
4	7318.840	46.69	16.03	62.72	74.00	-11.28	Peak	150	180

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11n HT40, CH6	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



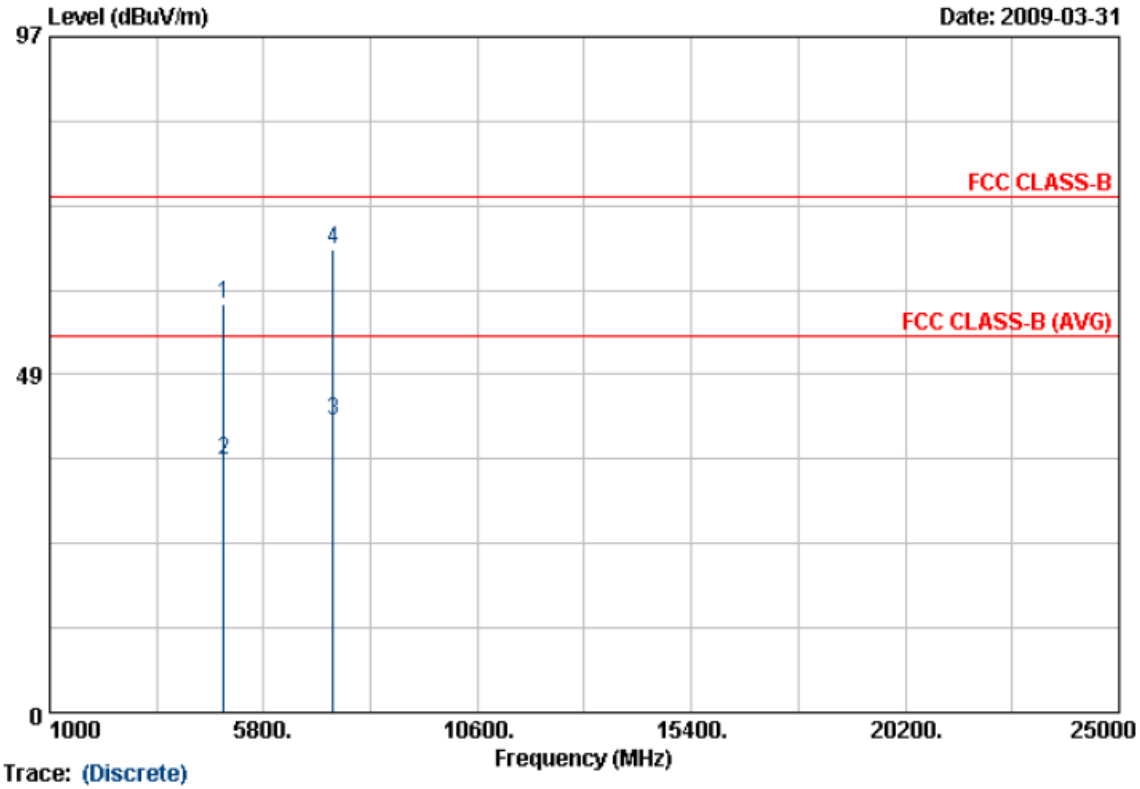
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4873.530	48.91	5.31	54.22	74.00	-19.78	Peak	150	62
2	4877.440	28.88	5.33	34.21	54.00	-19.79	Average	150	62
3	7315.630	29.61	13.14	42.75	54.00	-11.25	Average	150	62
4	7317.020	52.10	13.15	65.25	74.00	-8.75	Peak	150	62

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11n HT40, CH9	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



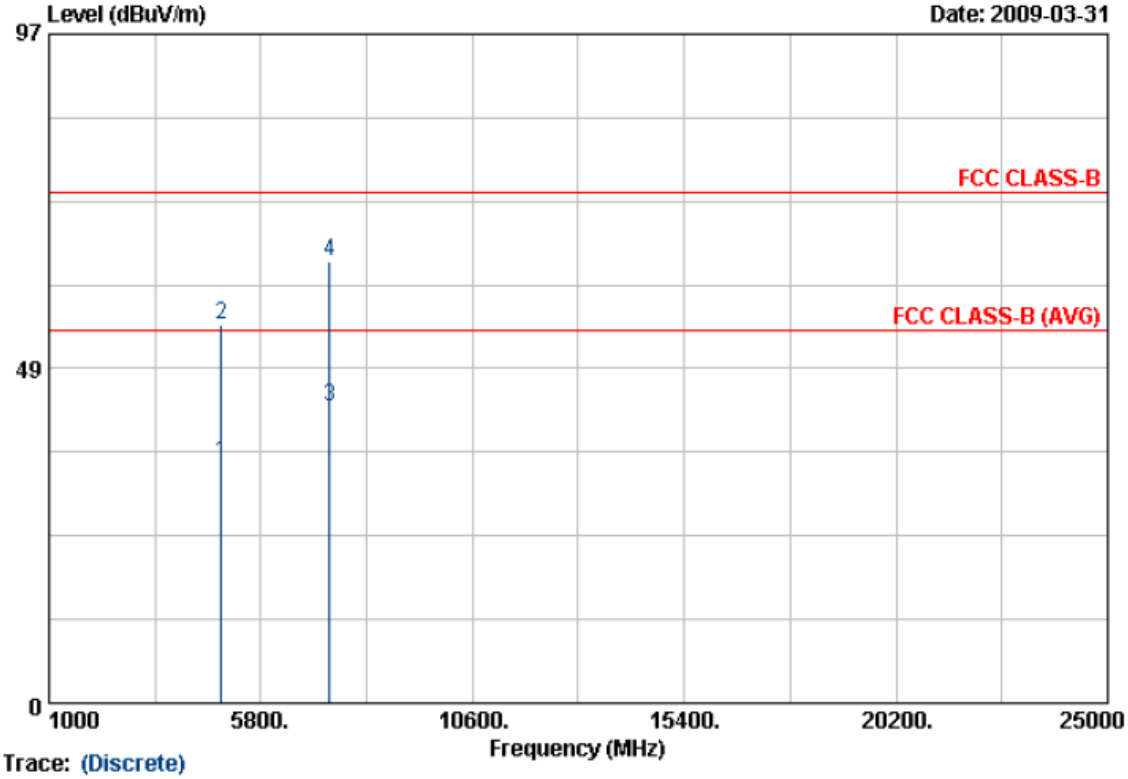
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4899.810	51.52	6.99	58.51	74.00	-15.49	Peak	150	180
2	4908.880	29.25	7.06	36.31	54.00	-17.69	Average	150	180
3	7351.040	25.65	16.23	41.88	54.00	-12.12	Average	150	180
4	7354.120	50.34	16.25	66.59	74.00	-7.41	Peak	150	180

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11n HT40, CH9	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



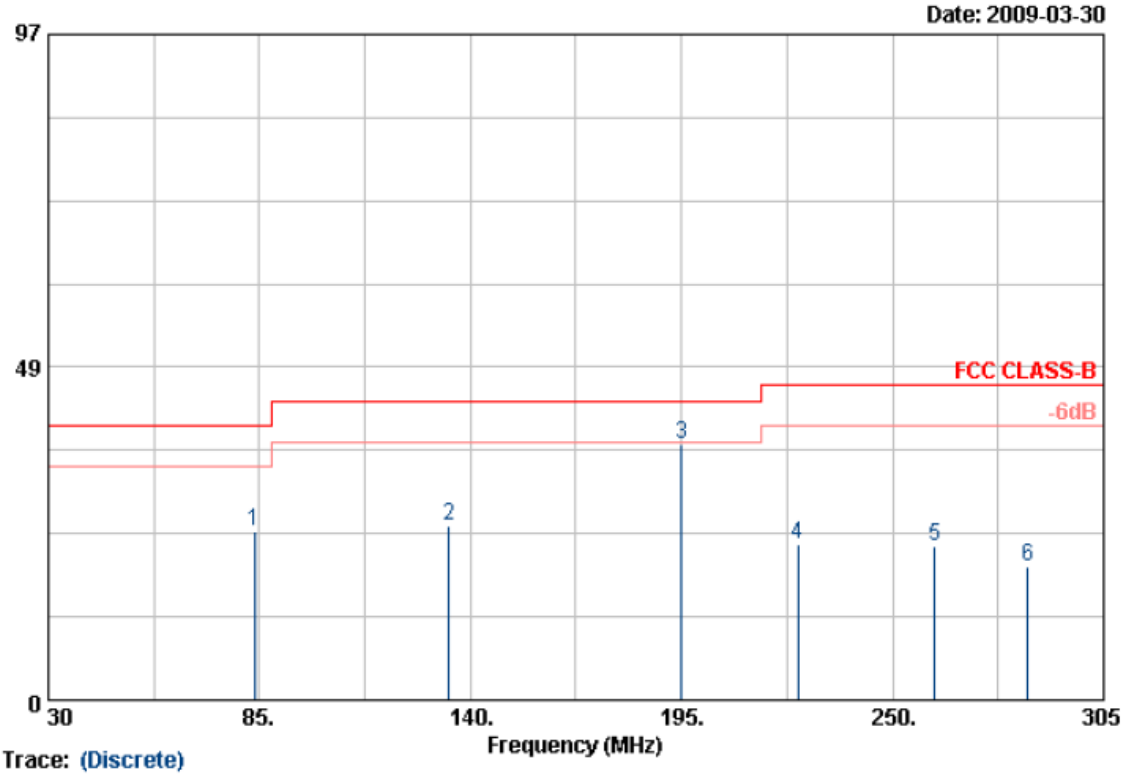
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	4903.840	29.27	5.46	34.73	54.00	-19.27	Average	150	62
2	4903.910	49.51	5.46	54.97	74.00	-19.03	Peak	150	62
3	7351.040	29.71	13.35	43.06	54.00	-10.94	Average	150	62
4	7353.970	50.69	13.37	64.06	74.00	-9.94	Peak	150	62

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



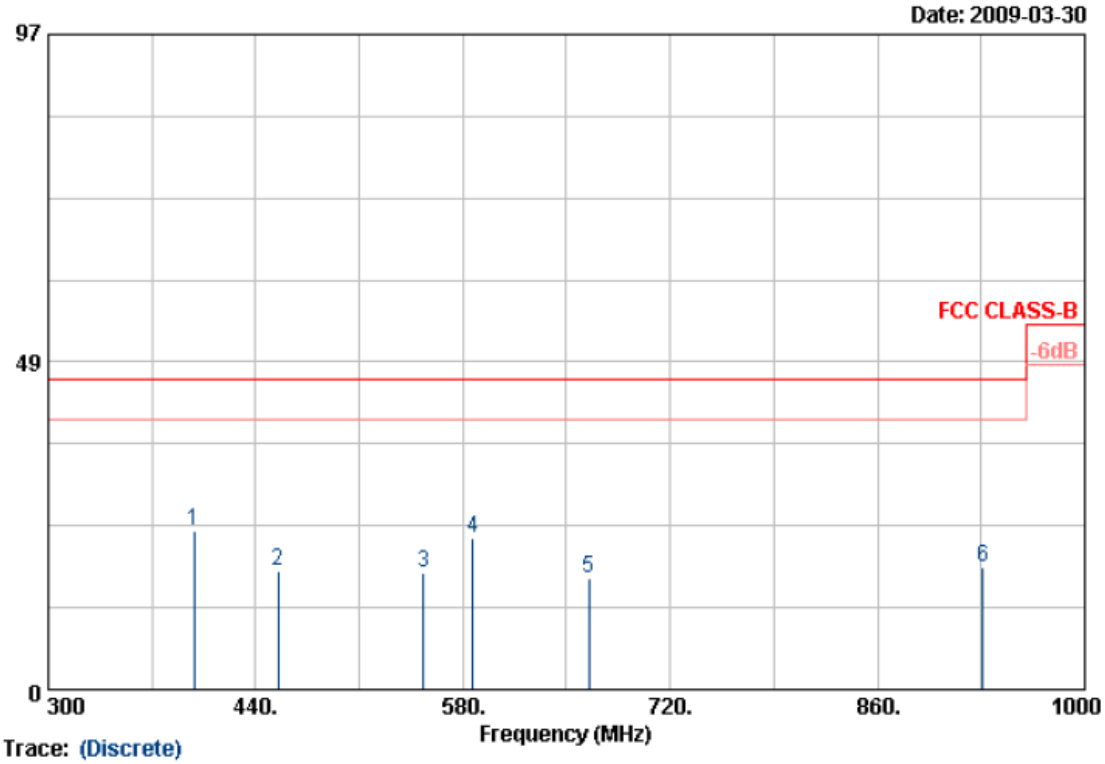
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	83.625	48.39	-23.82	24.57	40.00	-15.43	Peak	100	0
2	134.500	49.27	-23.88	25.39	43.50	-18.11	Peak	100	0
3	195.000	59.69	-22.44	37.25	43.50	-6.25	Peak	100	0
4	225.250	47.72	-25.15	22.57	46.00	-23.43	Peak	100	0
5	261.000	49.36	-26.81	22.55	46.00	-23.45	Peak	100	0
6	285.200	46.71	-27.34	19.37	46.00	-26.63	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz,so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



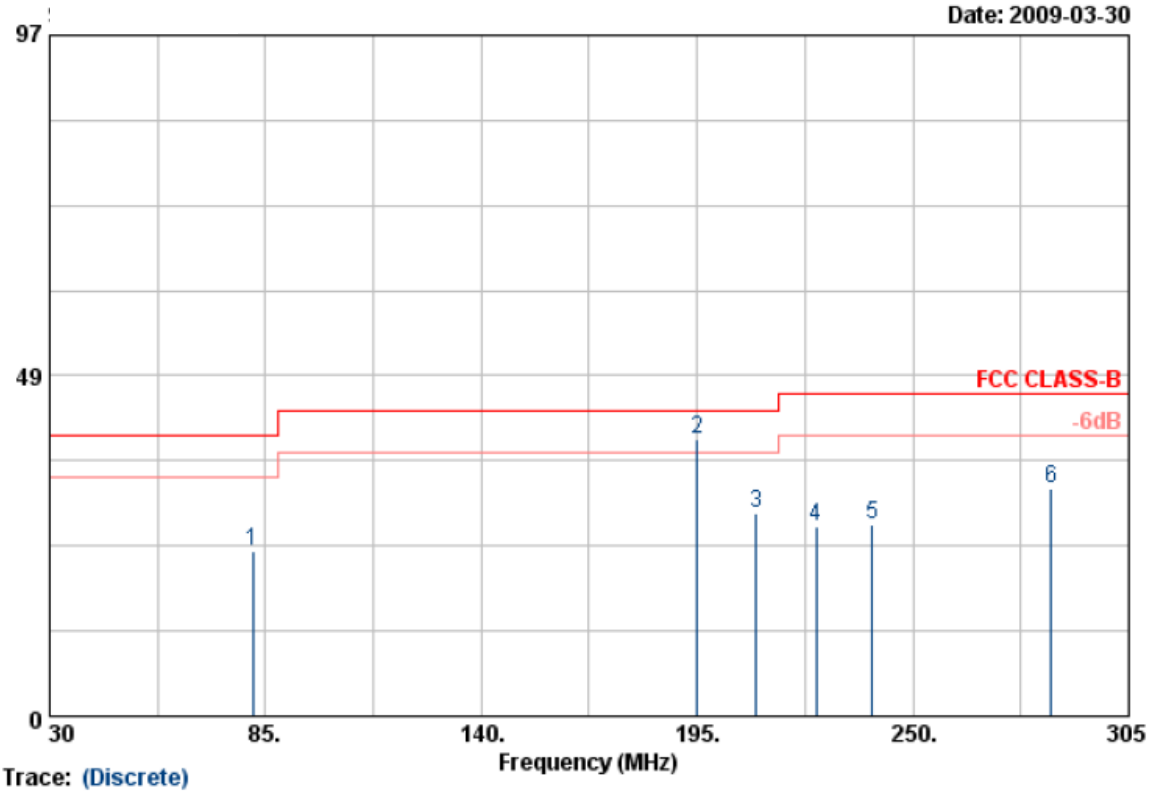
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	398.700	49.18	-25.58	23.60	46.00	-22.40	Peak	150	0
2	455.400	44.32	-26.72	17.60	46.00	-28.40	Peak	150	0
3	553.400	42.01	-24.70	17.31	46.00	-28.69	Peak	150	0
4	587.000	48.97	-26.43	22.54	46.00	-23.46	Peak	150	0
5	665.400	43.55	-27.09	16.46	46.00	-29.54	Peak	150	0
6	931.400	40.15	-22.11	18.04	46.00	-27.96	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz,so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11a, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



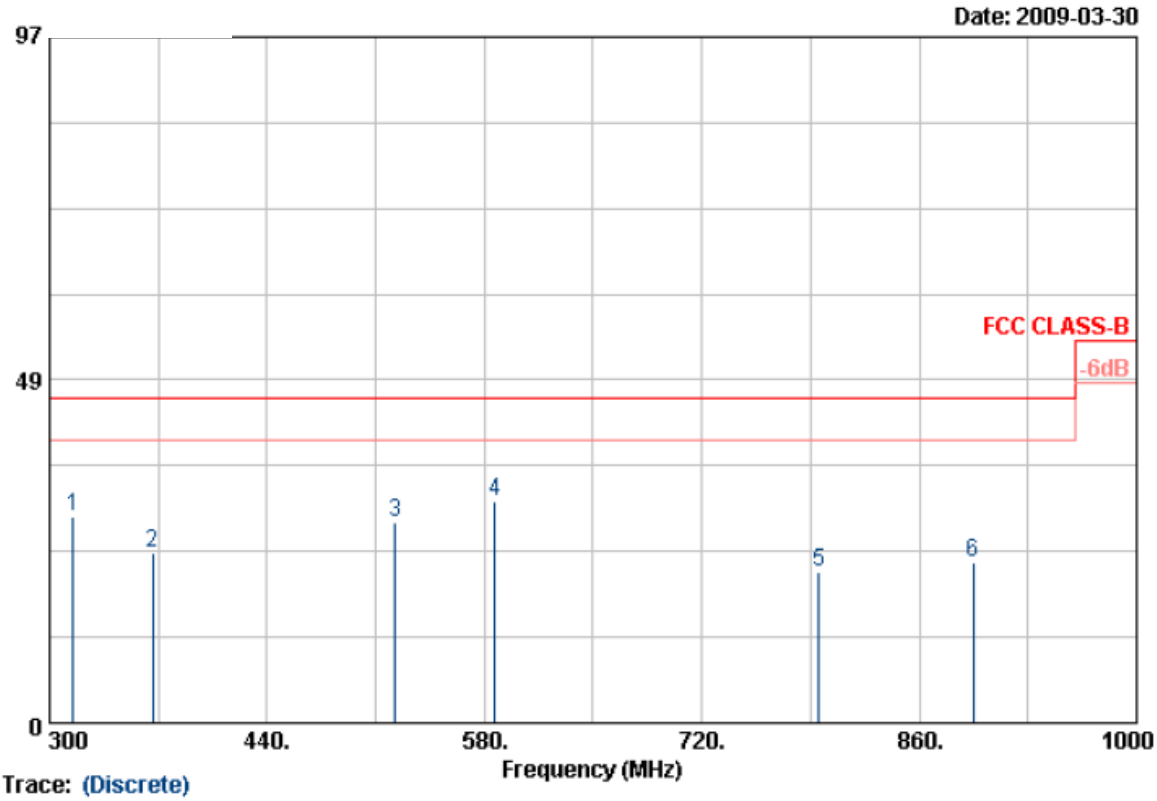
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	81.70	54.56	-30.98	23.58	40.00	-16.42	Peak	100	0
2	195.00	69.70	-30.12	39.58	43.50	-3.92	QP	100	0
3	210.13	58.64	-29.63	29.01	43.50	-14.49	Peak	100	0
4	225.25	56.98	-29.94	27.04	46.00	-18.96	Peak	100	0
5	239.55	57.01	-29.71	27.30	46.00	-18.70	Peak	100	0
6	285.20	60.28	-27.78	32.50	46.00	-13.50	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11a mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11a, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



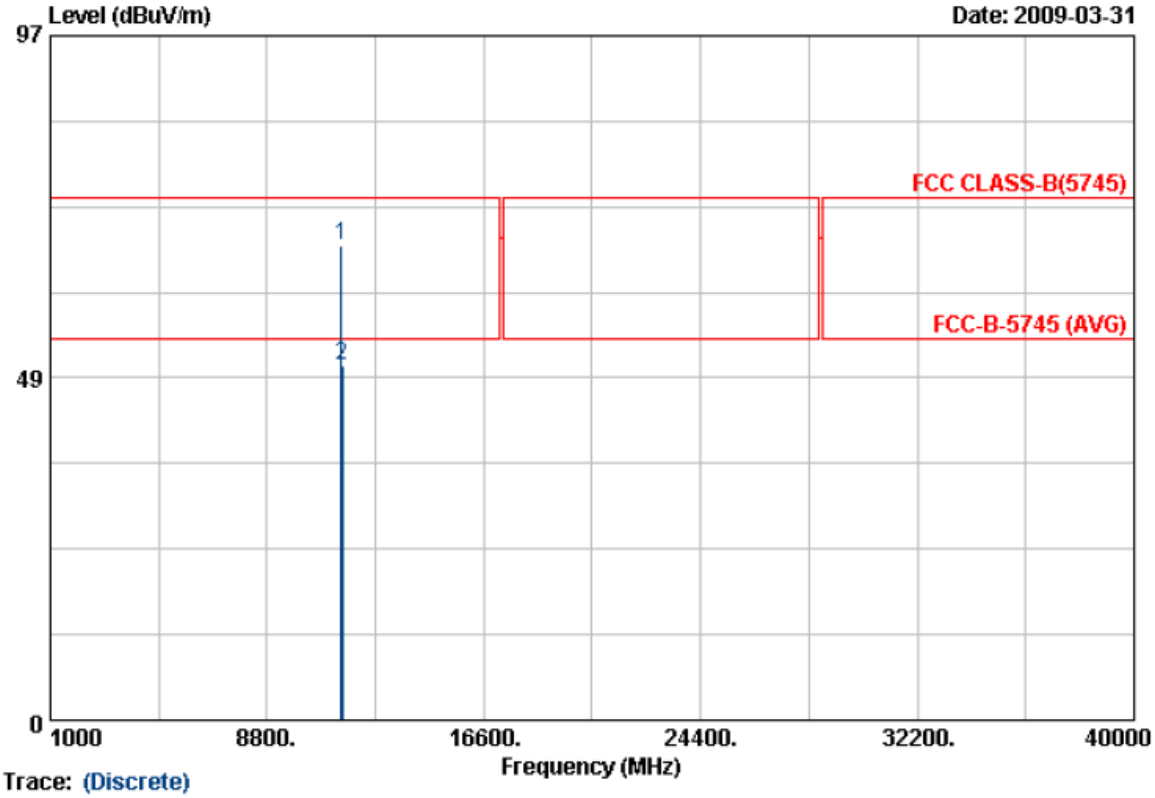
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	315.400	57.35	-28.22	29.13	46.00	-16.87	Peak	150	0
2	366.500	51.97	-28.01	23.96	46.00	-22.04	Peak	150	0
3	522.600	54.36	-26.05	28.31	46.00	-17.69	Peak	150	0
4	587.000	55.09	-23.62	31.47	46.00	-14.53	Peak	150	0
5	795.600	46.56	-25.34	21.22	46.00	-24.78	Peak	150	0
6	895.000	46.82	-24.25	22.57	46.00	-23.43	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11a mode at channel 36,44,48 are almost the same below 1GHz,so that the channel 36 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH149	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



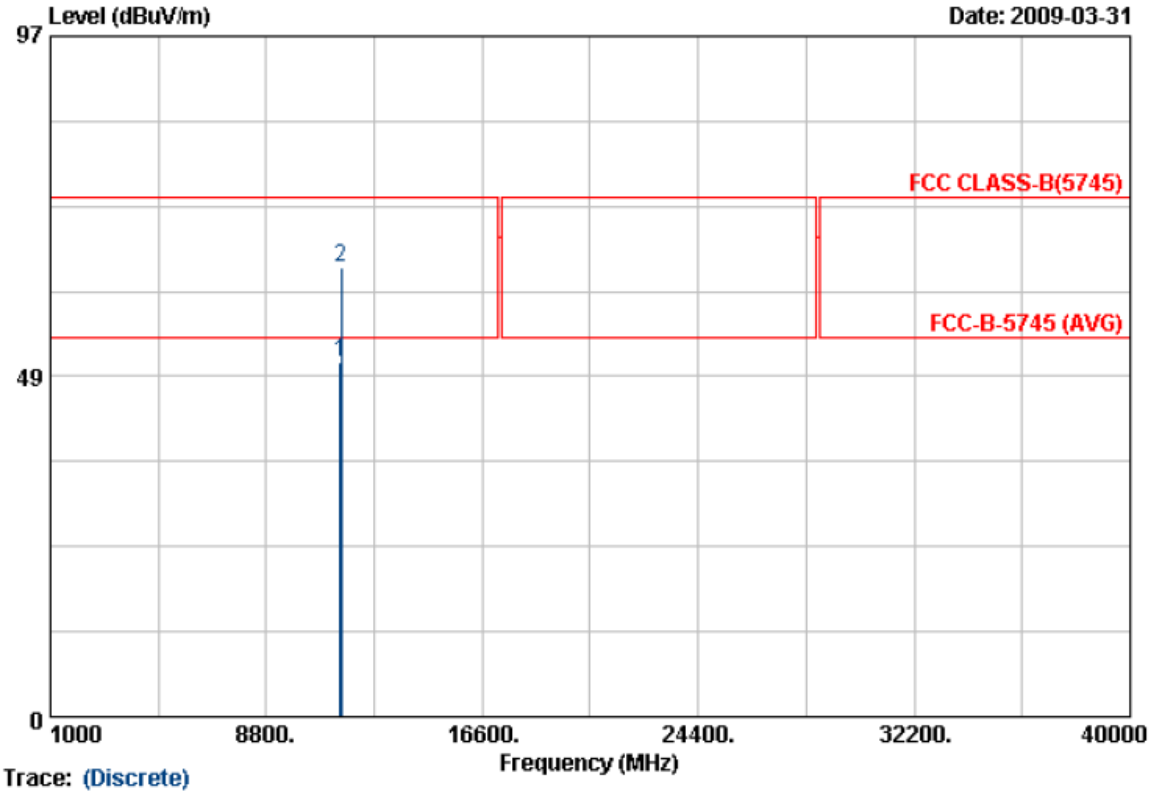
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11488.560	43.56	23.63	67.19	74.00	-6.81	Peak	100	240
2	11493.560	26.56	23.65	50.21	54.00	-3.79	Average	100	240

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11a, CH149	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



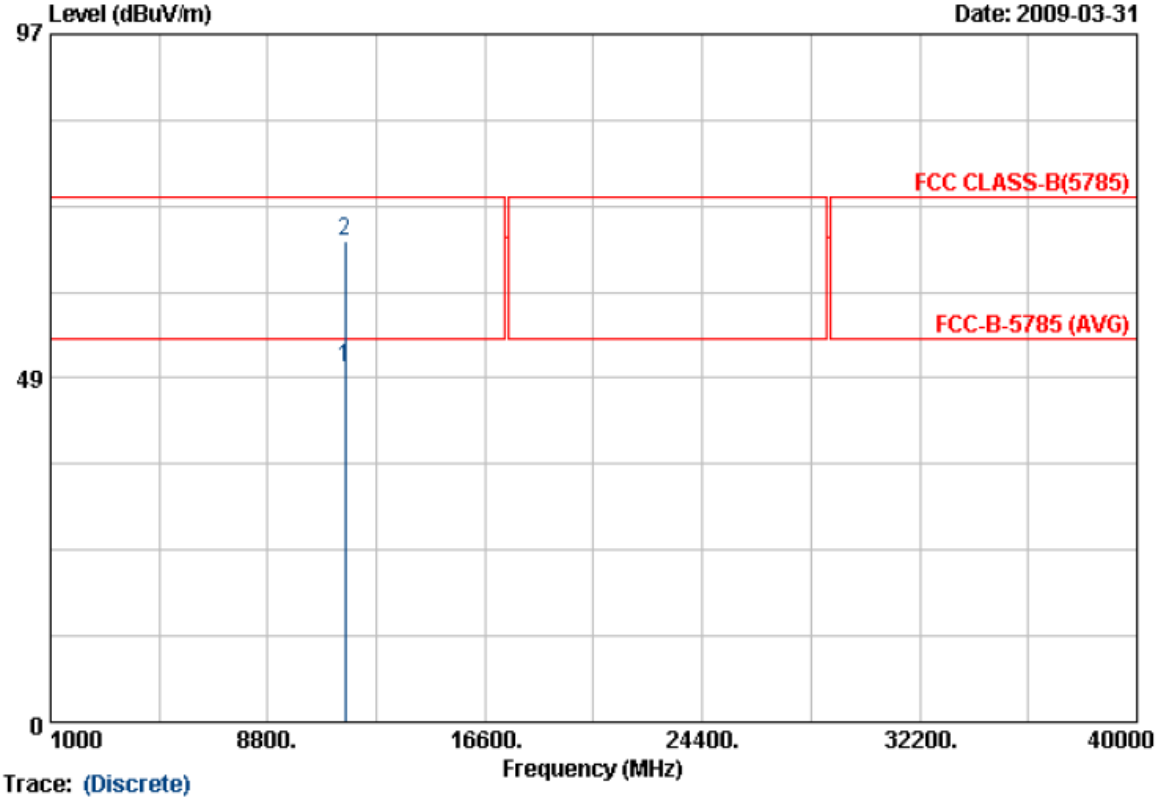
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11485.700	29.59	20.88	50.47	54.00	-3.53	Average	100	122
2	11493.440	43.25	20.89	64.14	74.00	-9.86	Peak	100	122

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH157	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



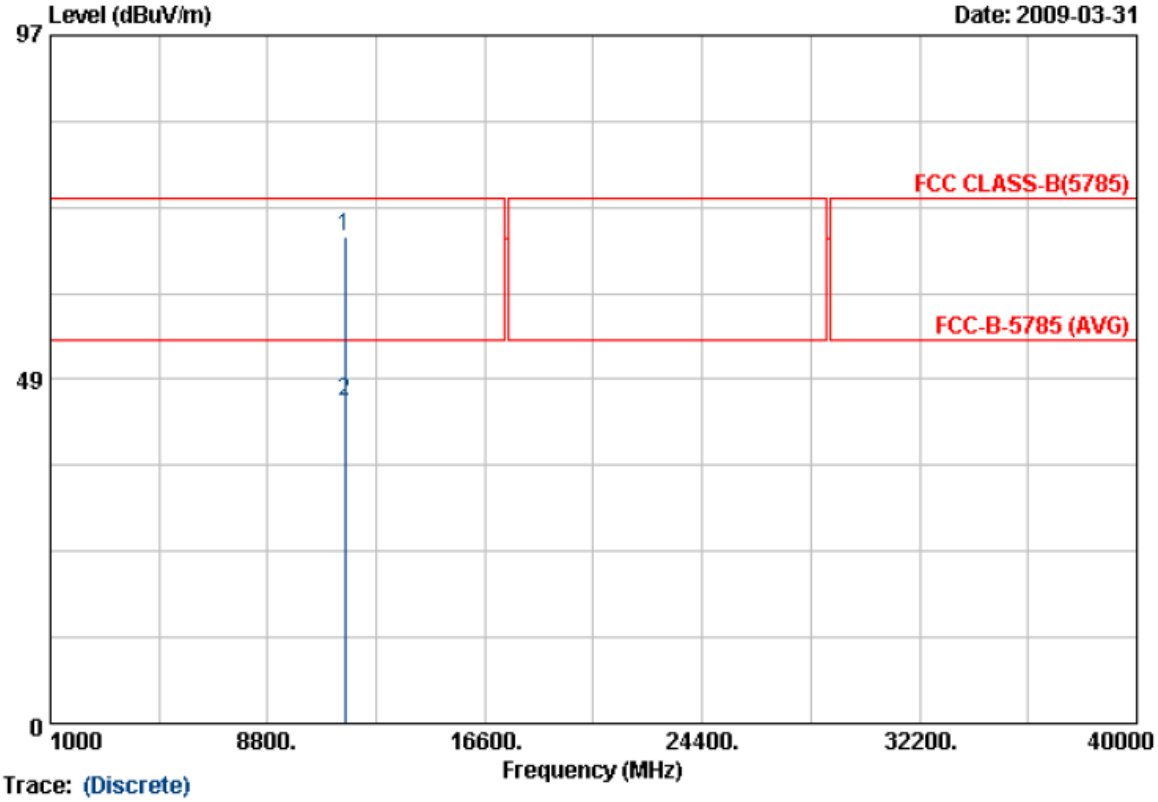
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11569.950	26.26	23.63	49.89	54.00	-4.11	Average	100	101
2	11571.960	44.28	23.62	67.90	74.00	-6.10	Peak	100	258

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11a, CH157	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



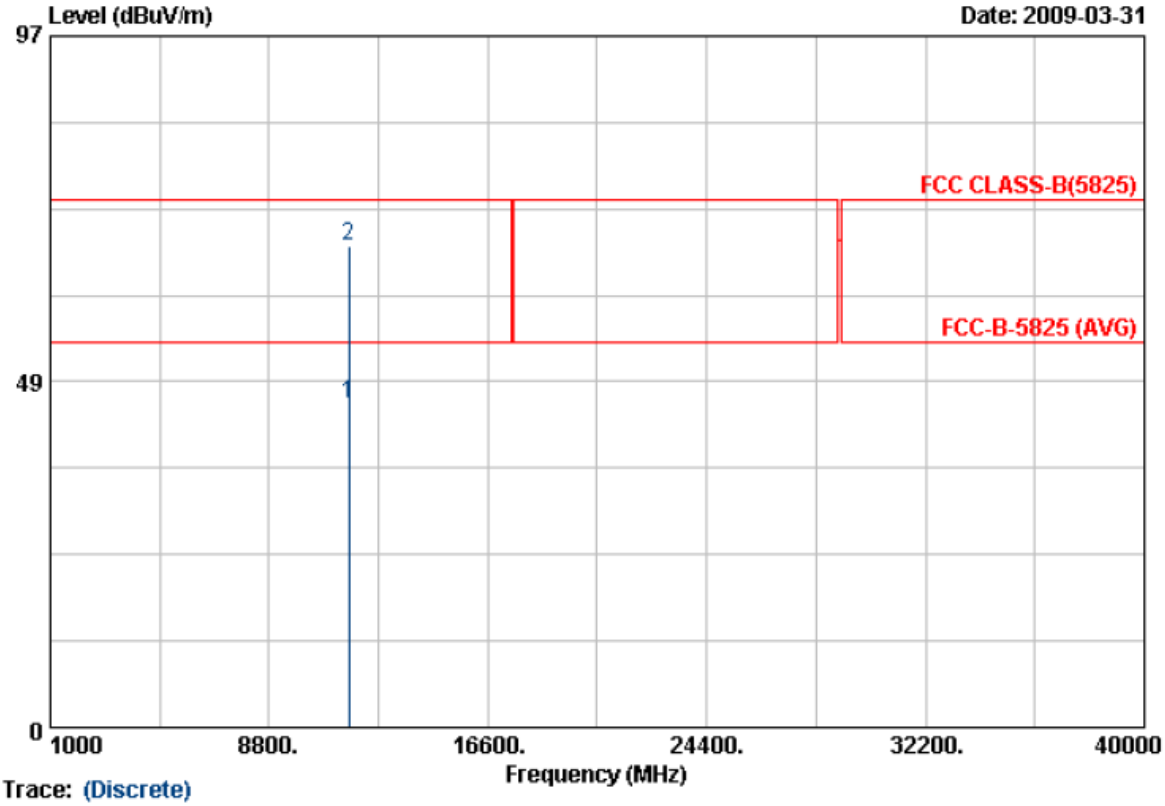
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11570.830	47.65	20.93	68.58	74.00	-5.42	Peak	100	129
2	11572.430	24.54	20.93	45.47	54.00	-8.53	Average	100	228

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11a, CH165	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



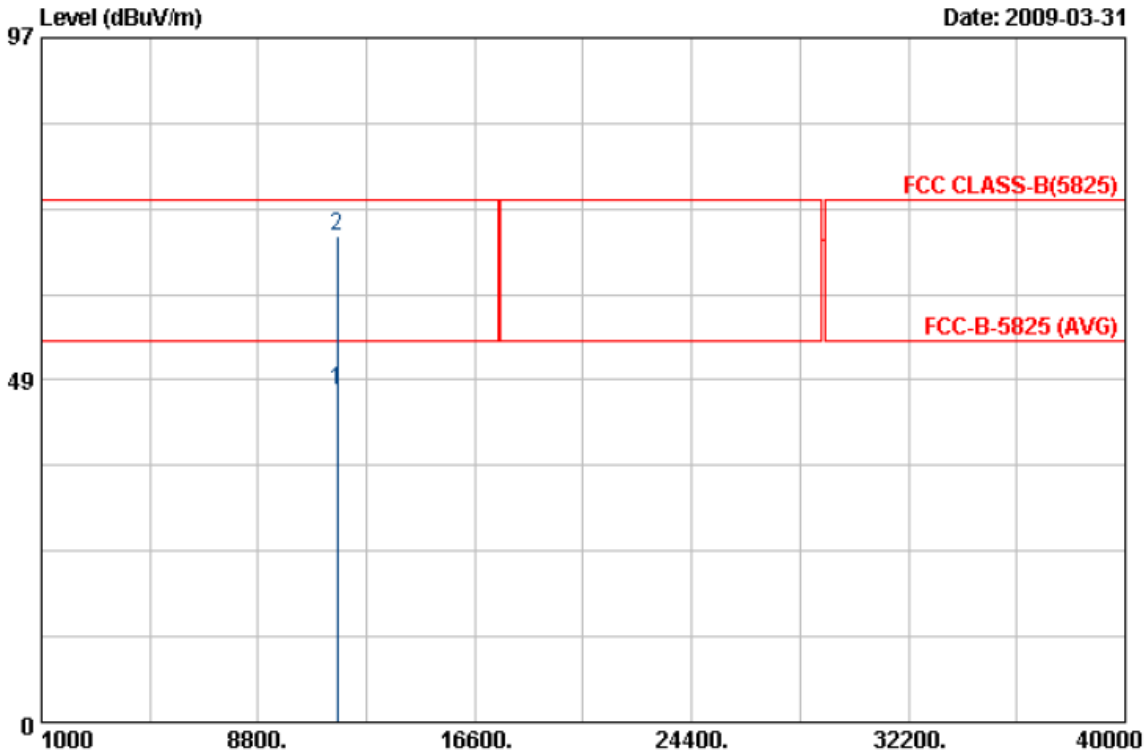
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11647.500	21.73	23.58	45.31	54.00	-8.69	Average	100	239
2	11647.860	43.90	23.58	67.48	74.00	-6.52	Peak	100	124

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11a, CH165	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	60 %



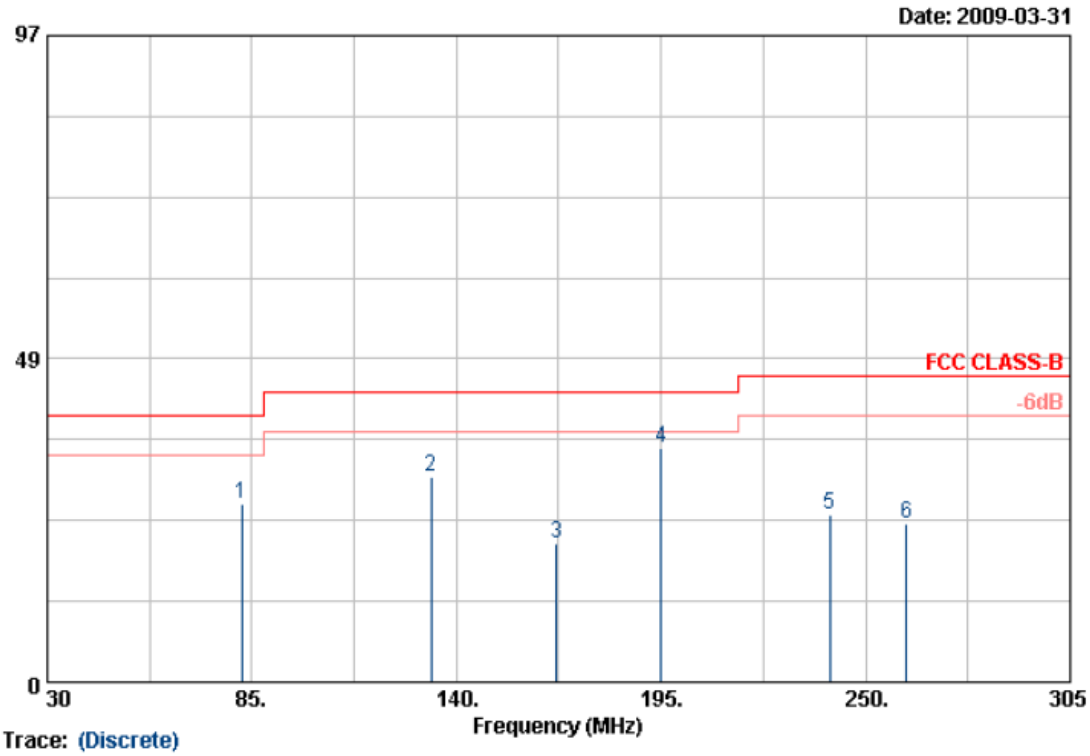
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11650.000	25.93	20.97	46.90	54.00	-7.10	Average	100	144
2	11650.000	47.86	20.97	68.83	74.00	-5.17	Peak	100	242

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT20, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



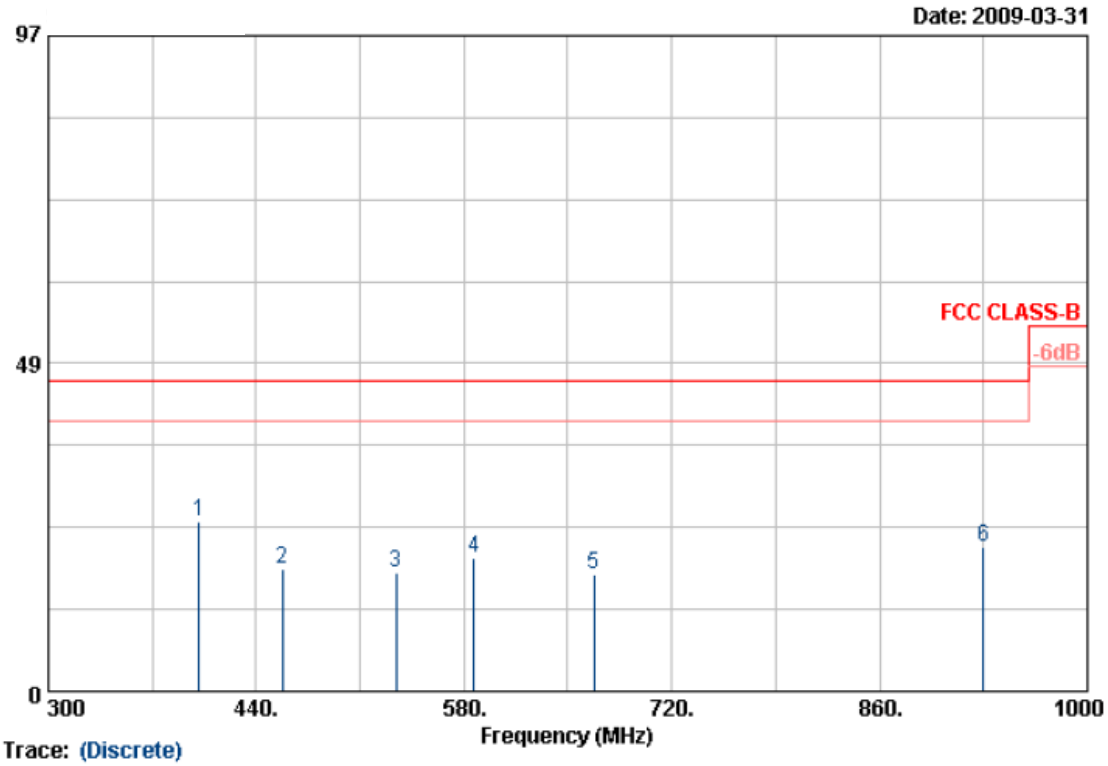
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	82.250	50.54	-23.84	26.70	40.00	-13.30	Peak	100	0
2	133.125	54.47	-23.55	30.92	43.50	-12.58	Peak	100	0
3	166.950	45.96	-25.28	20.68	43.50	-22.82	Peak	100	0
4	195.000	57.53	-22.44	35.09	43.50	-8.41	Peak	100	0
5	240.375	51.64	-26.48	25.16	46.00	-20.84	Peak	100	0
6	261.000	50.49	-26.81	23.68	46.00	-22.32	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT20, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



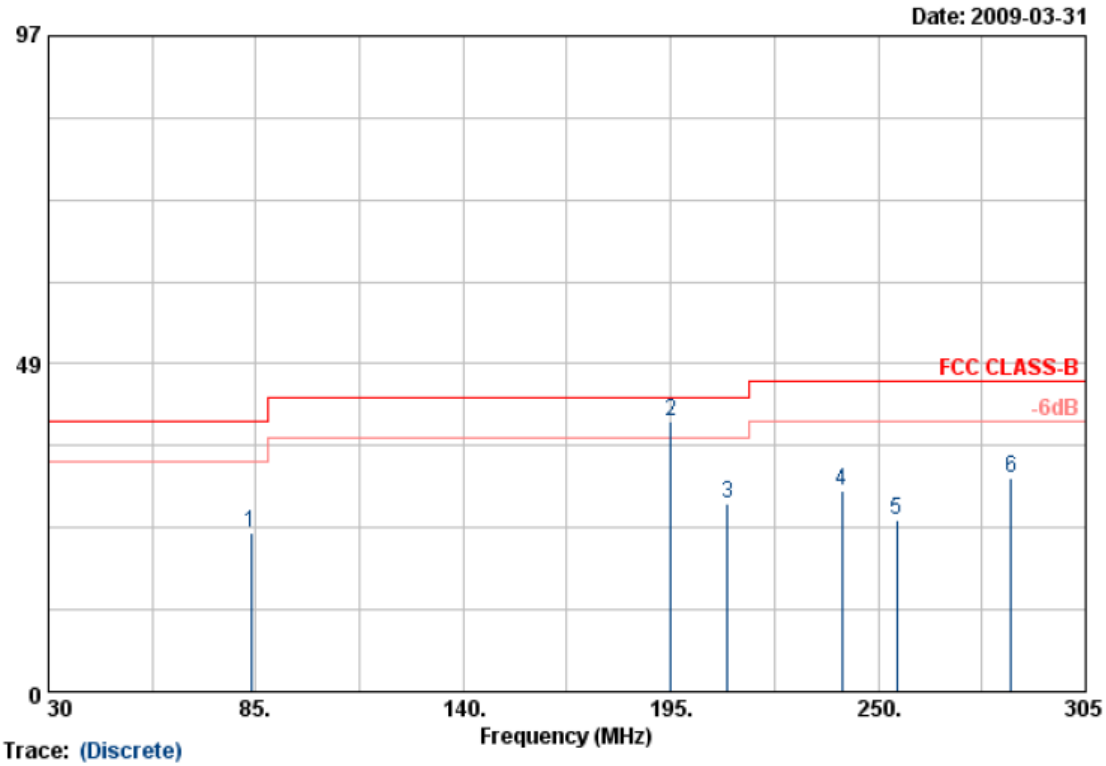
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	401.500	50.53	-25.39	25.14	46.00	-20.86	Peak	150	0
2	457.500	45.51	-27.29	18.22	46.00	-27.78	Peak	150	0
3	534.500	44.12	-26.52	17.60	46.00	-28.40	Peak	150	0
4	587.000	46.09	-26.43	19.66	46.00	-26.34	Peak	150	0
5	667.500	44.21	-26.81	17.40	46.00	-28.60	Peak	150	0
6	930.000	43.09	-21.82	21.27	46.00	-24.73	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT20, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



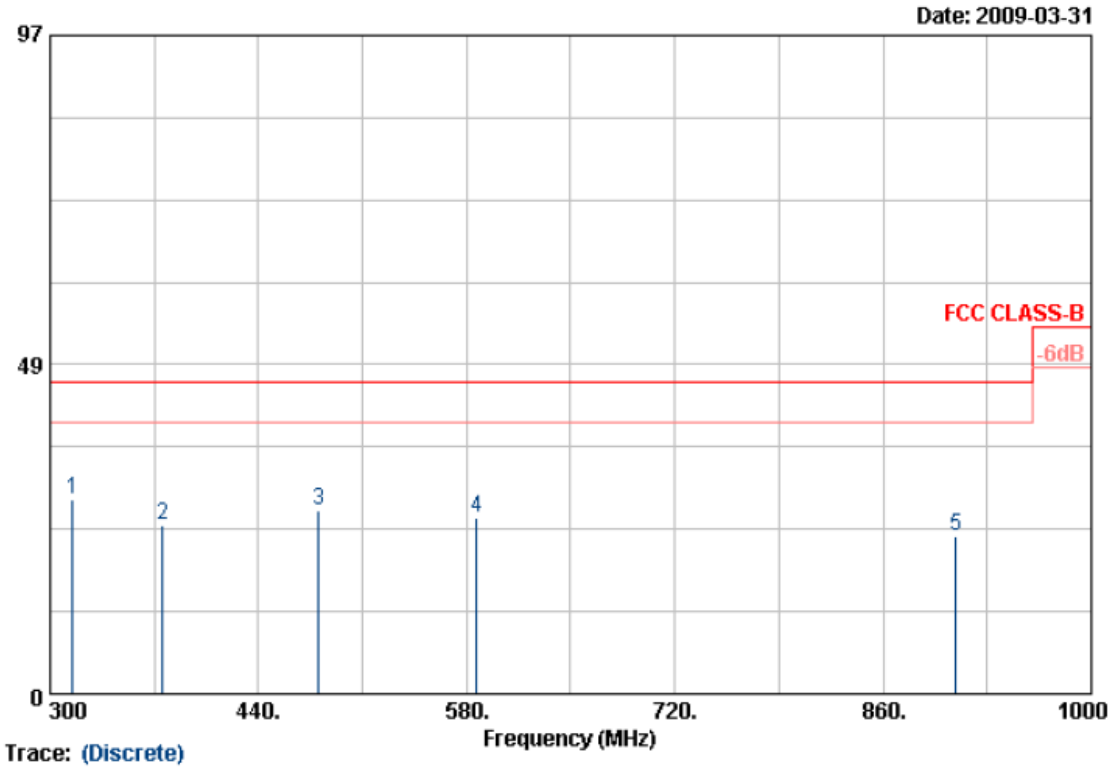
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	83.63	54.55	-31.05	23.50	40.00	-16.50	Peak	100	0
2	195.00	70.13	-30.12	40.01	43.50	-3.49	QP	100	0
3	210.13	57.55	-29.63	27.92	43.50	-15.58	Peak	100	0
4	240.38	59.34	-29.68	29.66	46.00	-16.34	Peak	100	0
5	254.95	54.41	-28.88	25.53	46.00	-20.47	Peak	100	0
6	285.20	59.49	-27.78	31.71	46.00	-14.29	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT20, CH149	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



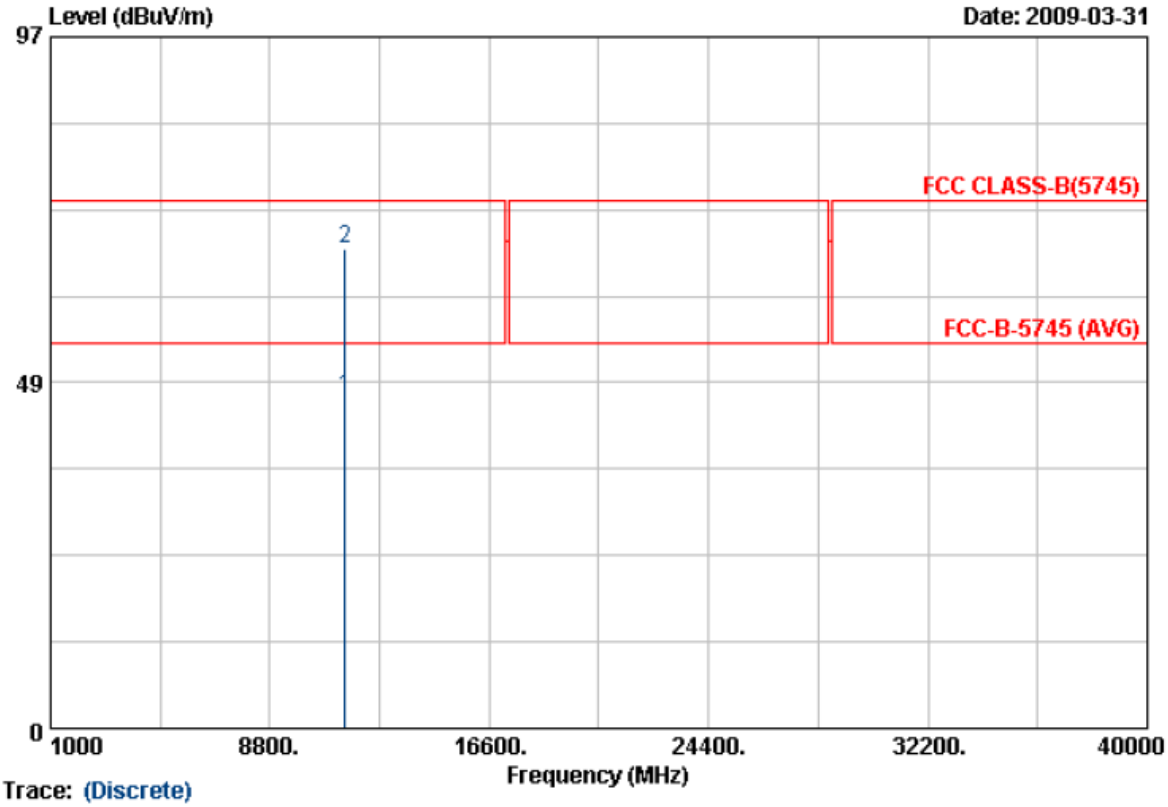
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	315.400	56.96	-28.22	28.74	46.00	-17.26	Peak	150	0
2	375.600	53.98	-29.20	24.78	46.00	-21.22	Peak	150	0
3	480.600	51.82	-24.90	26.92	46.00	-19.08	Peak	150	0
4	587.000	49.69	-23.62	26.07	46.00	-19.93	Peak	150	0
5	909.000	46.86	-23.70	23.16	46.00	-22.84	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an HT20 mode at channel 149,157,165 are almost the same below 1GHz,so that the channel 149 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT20, CH149	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



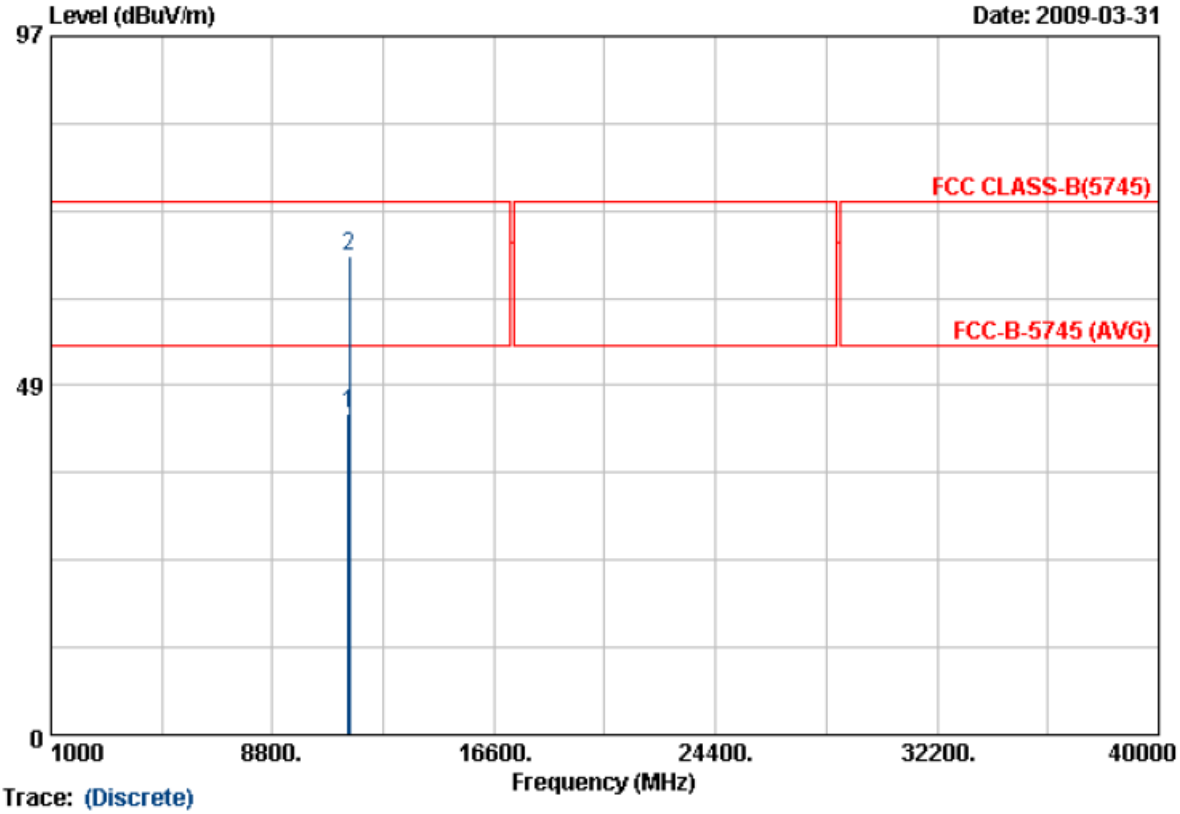
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11485.800	22.94	23.62	46.56	54.00	-7.44	Average	100	116
2	11489.180	43.69	23.63	67.32	74.00	-6.68	Peak	100	216

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT20, CH149	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



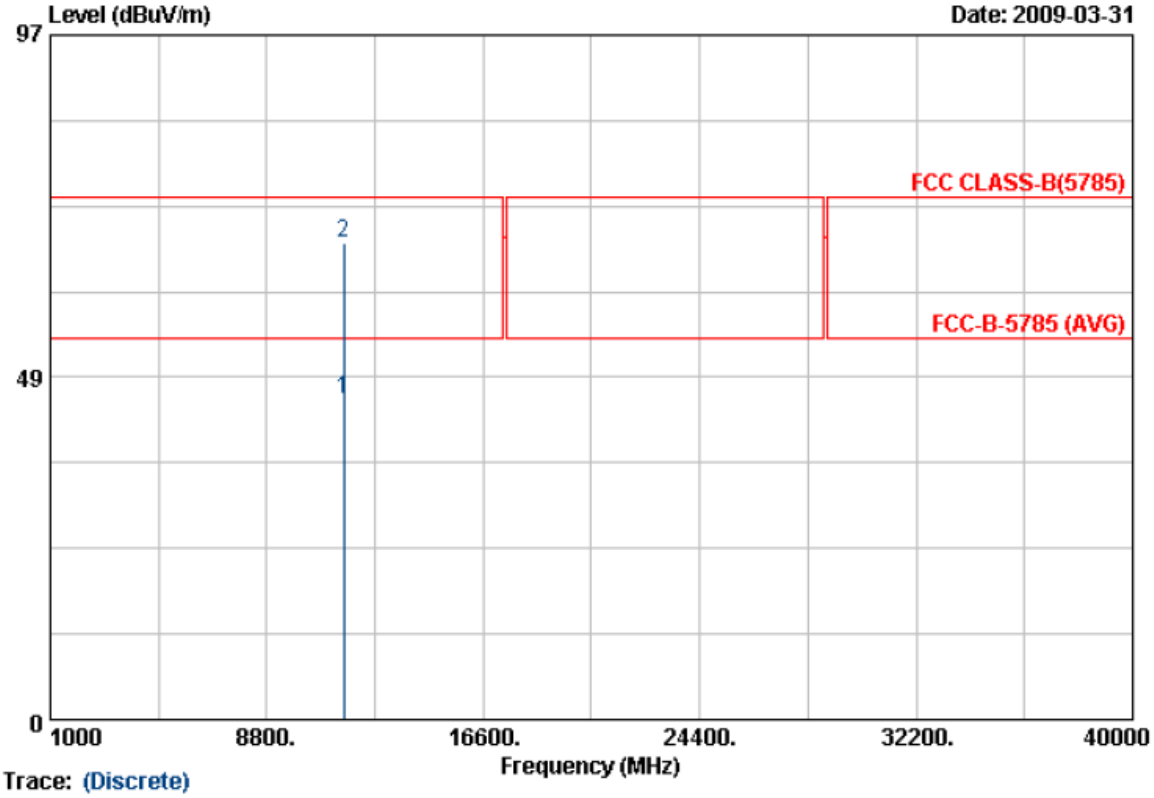
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11485.840	23.74	20.88	44.62	54.00	-9.38	Average	100	146
2	11492.580	45.67	20.89	66.56	74.00	-7.44	Peak	100	208

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT20, CH157	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



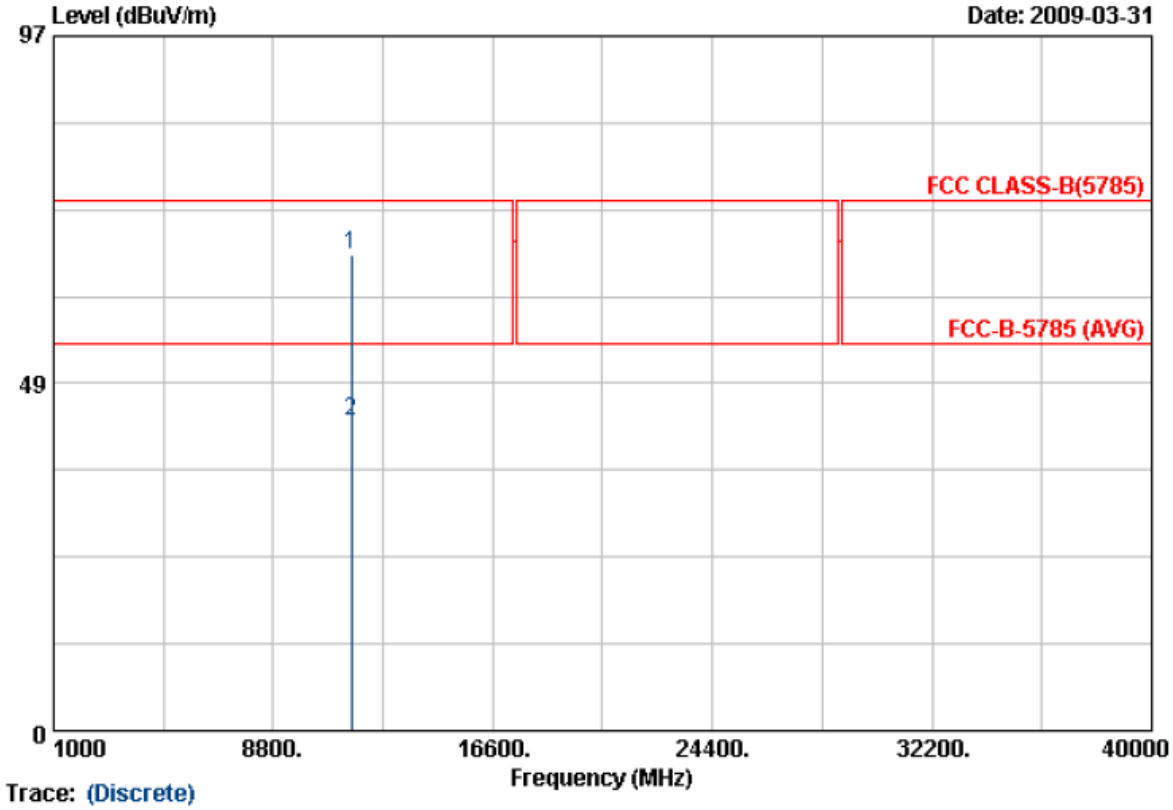
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11569.890	21.63	23.63	45.26	54.00	-8.74	Average	100	168
2	11571.470	43.90	23.63	67.53	74.00	-6.47	Peak	100	250

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT20, CH157	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



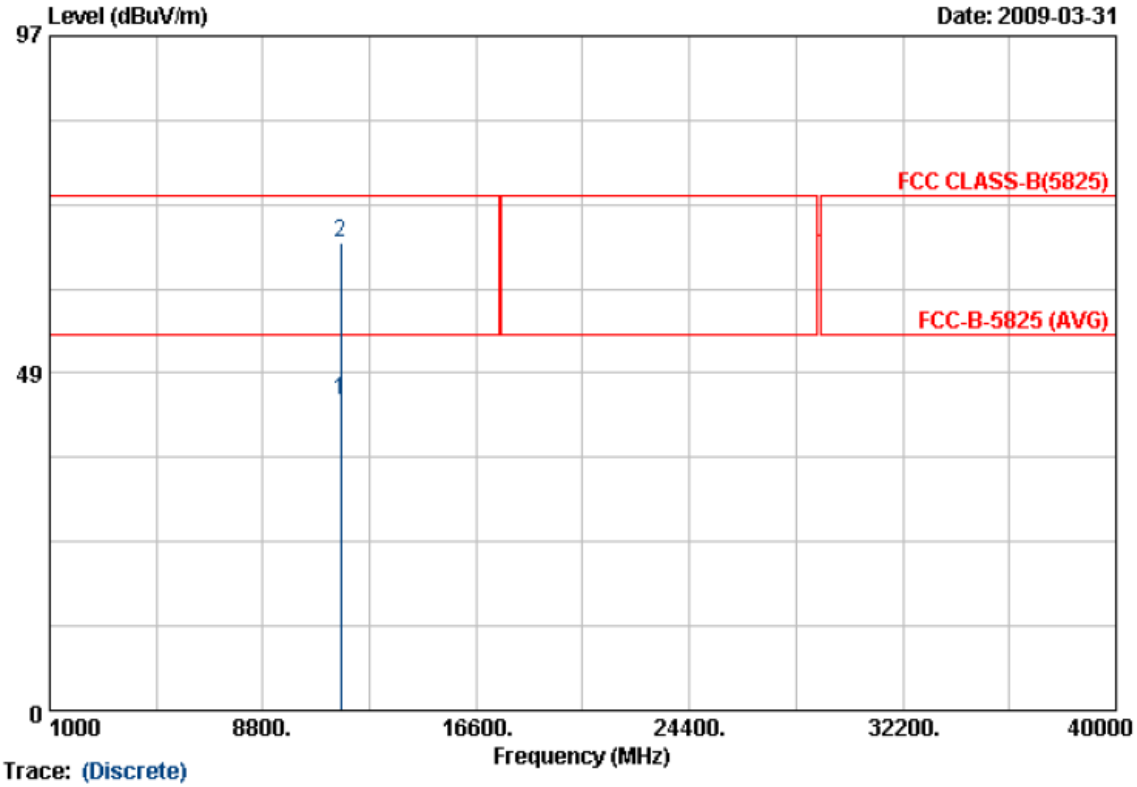
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11571.790	45.46	20.93	66.39	74.00	-7.61	Peak	100	162
2	11573.080	22.22	20.93	43.15	54.00	-10.85	Average	100	268

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT20, CH165	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



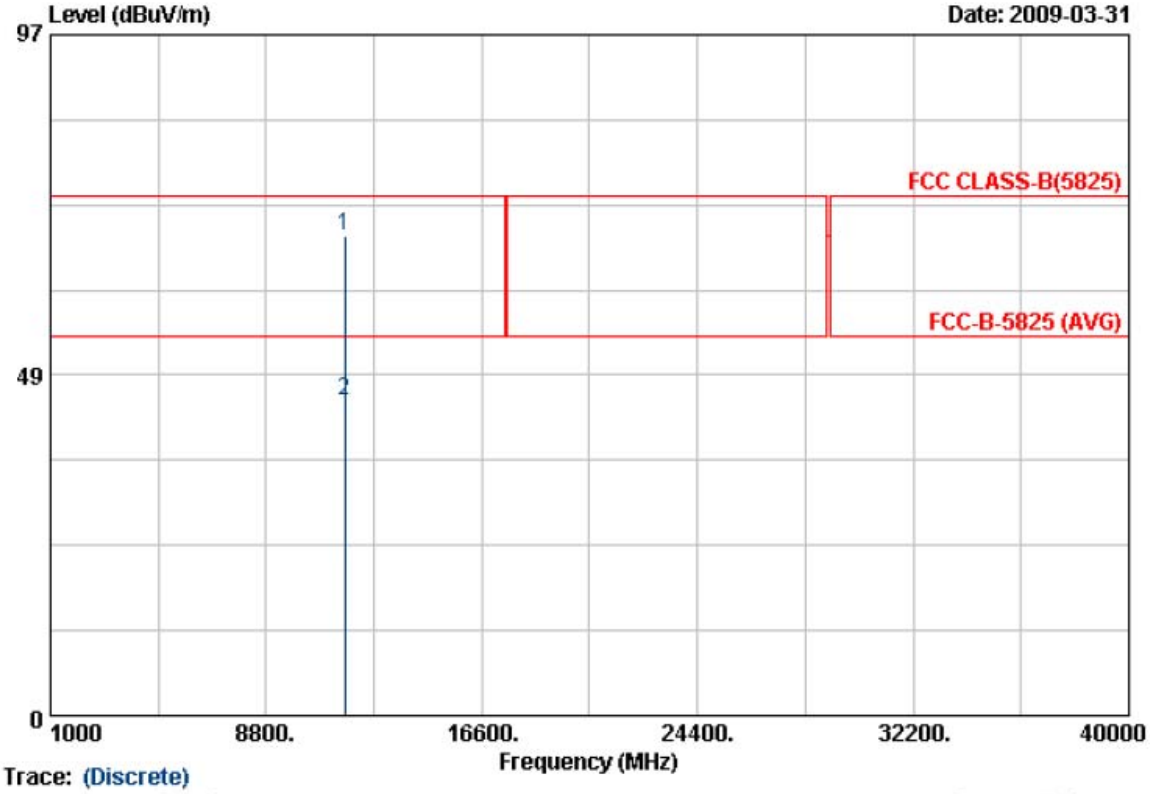
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11650.230	20.95	23.58	44.53	54.00	-9.47	Average	100	145
2	11652.980	43.81	23.58	67.39	74.00	-6.61	Peak	100	232

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT20, CH165	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



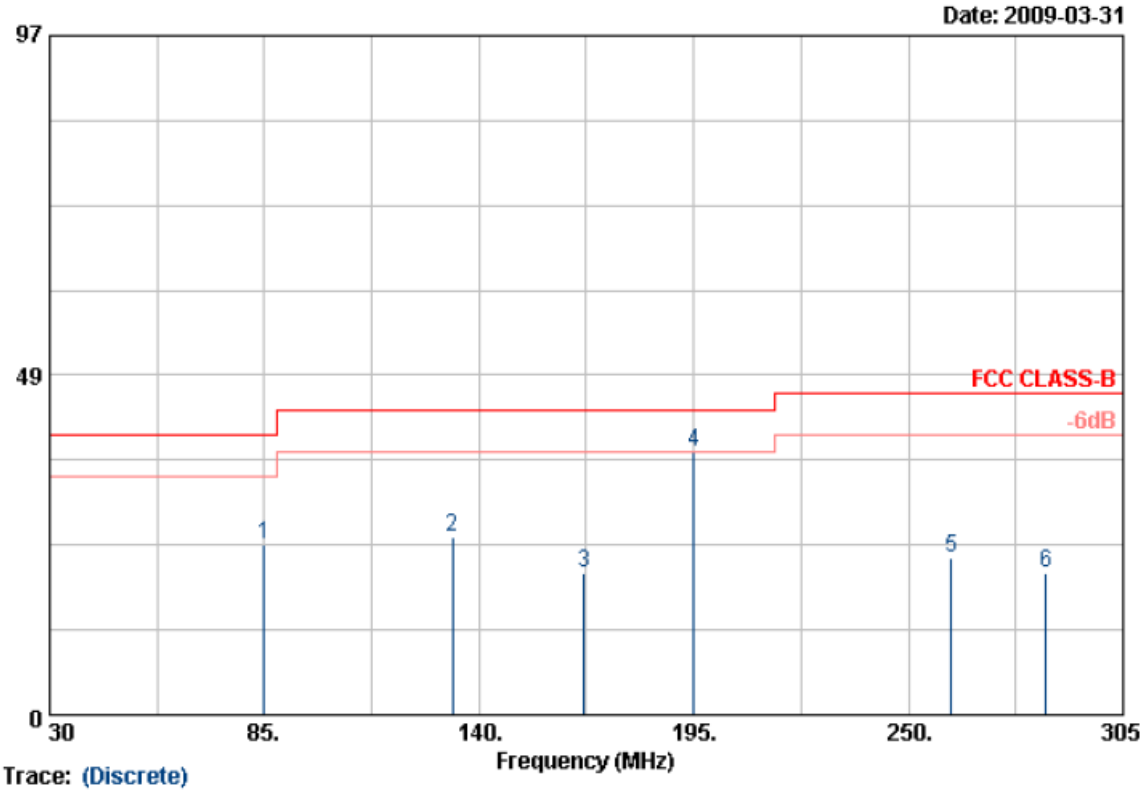
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11645.020	47.40	20.97	68.37	74.00	-5.63	Peak	100	282
2	11647.500	23.95	20.97	44.92	54.00	-9.08	Average	100	123

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT40, CH159	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



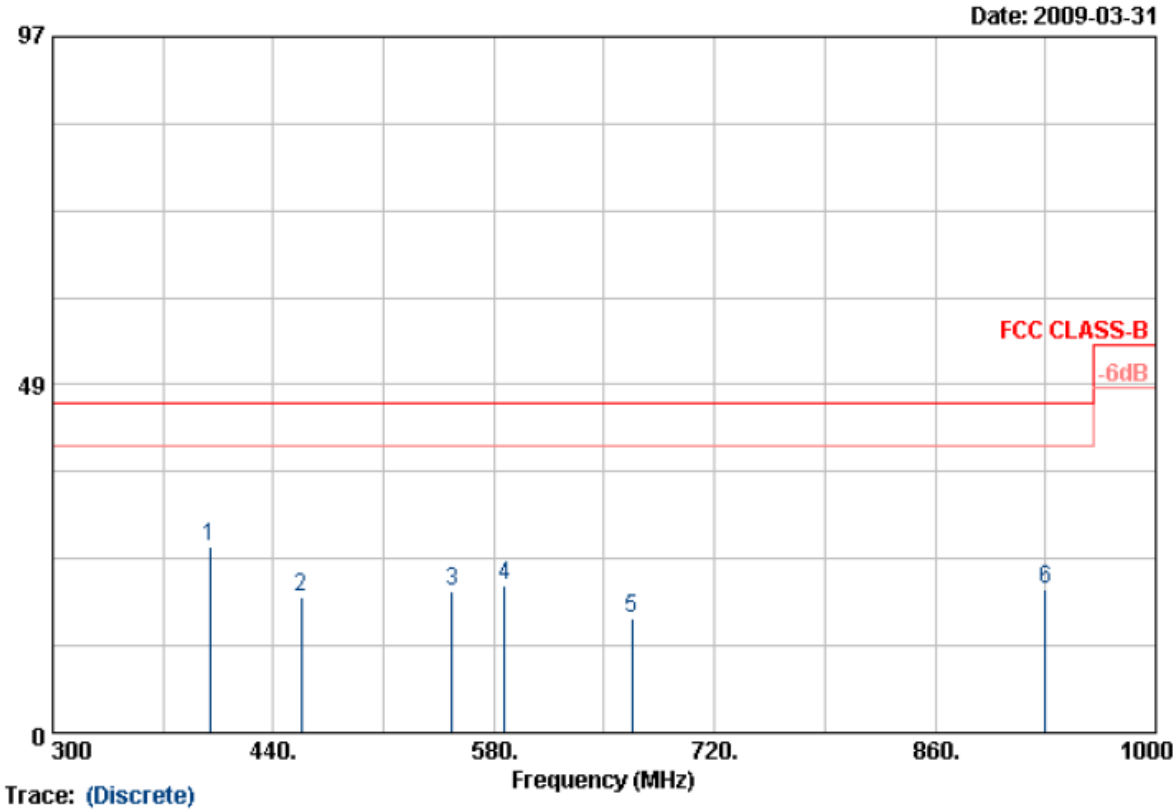
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	85.000	48.17	-23.80	24.37	40.00	-15.63	Peak	100	0
2	133.125	49.08	-23.55	25.53	43.50	-17.97	Peak	100	0
3	166.950	45.63	-25.28	20.35	43.50	-23.15	Peak	100	0
4	195.000	59.89	-22.44	37.45	43.50	-6.05	Peak	100	0
5	261.000	49.27	-26.81	22.46	46.00	-23.54	Peak	100	0
6	285.200	47.69	-27.34	20.35	46.00	-25.65	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT40, CH159	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



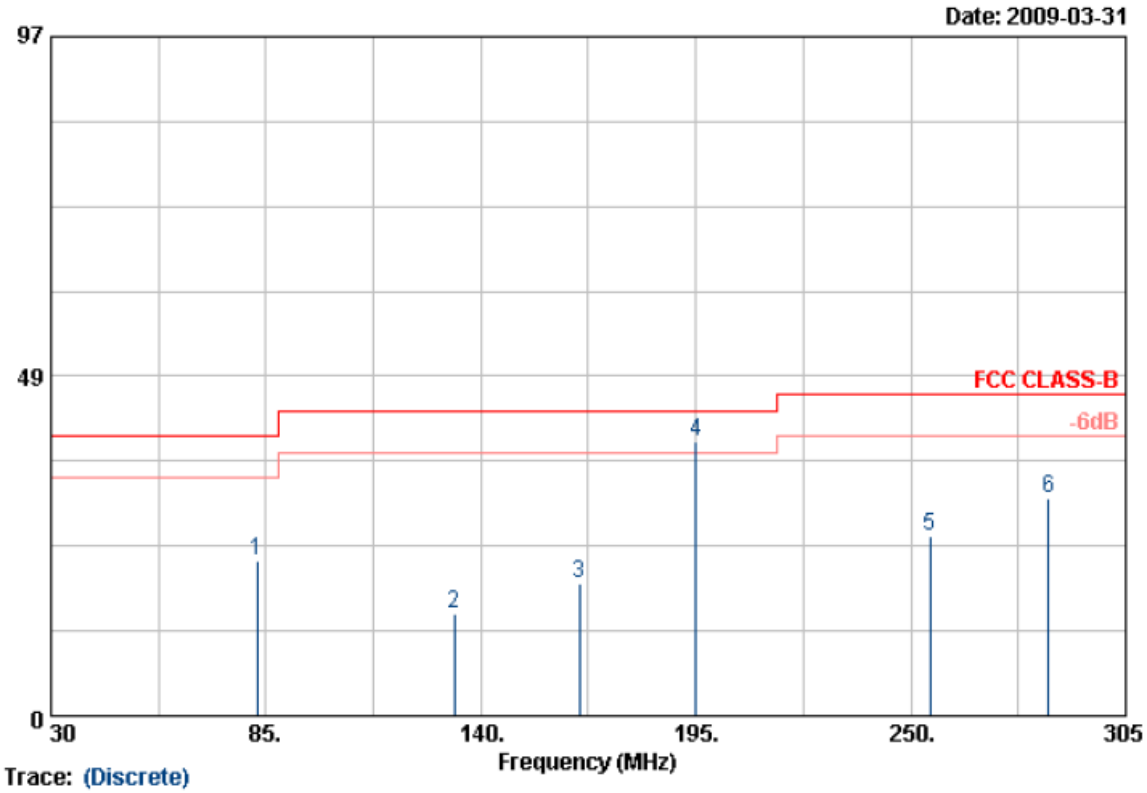
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	399.400	51.24	-25.42	25.82	46.00	-20.18	Peak	150	0
2	457.500	46.15	-27.29	18.86	46.00	-27.14	Peak	150	0
3	553.400	44.50	-24.70	19.80	46.00	-26.20	Peak	150	0
4	587.000	46.91	-26.43	20.48	46.00	-25.52	Peak	150	0
5	667.500	42.72	-26.81	15.91	46.00	-30.09	Peak	150	0
6	930.000	41.83	-21.82	20.01	46.00	-25.99	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT40, CH159	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



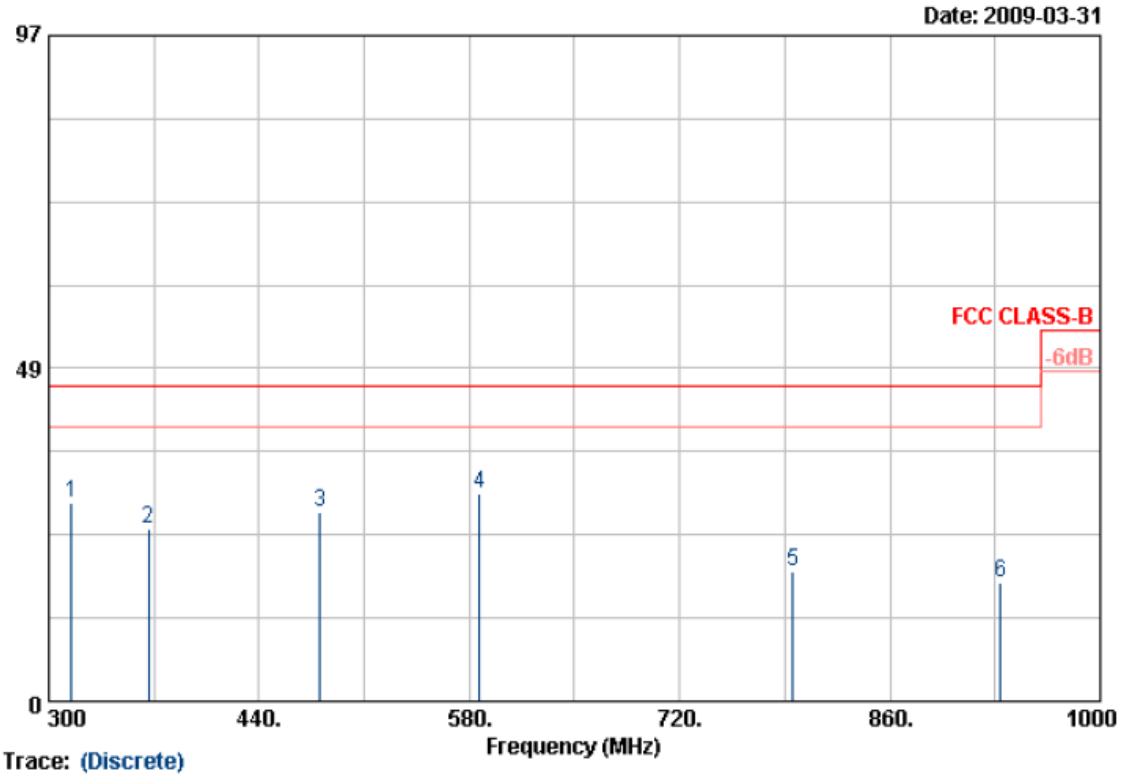
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	82.800	53.23	-31.02	22.21	40.00	-17.79	Peak	100	0
2	133.125	45.45	-30.79	14.66	43.50	-28.84	Peak	100	0
3	165.300	49.22	-30.33	18.89	43.50	-24.61	Peak	100	0
4	195.000	69.30	-30.12	39.18	43.50	-4.32	Peak	100	0
5	254.950	54.48	-28.88	25.60	46.00	-20.40	Peak	100	0
6	285.200	58.97	-27.78	31.19	46.00	-14.81	Peak	100	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT40, CH159	Temperature	:	25 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



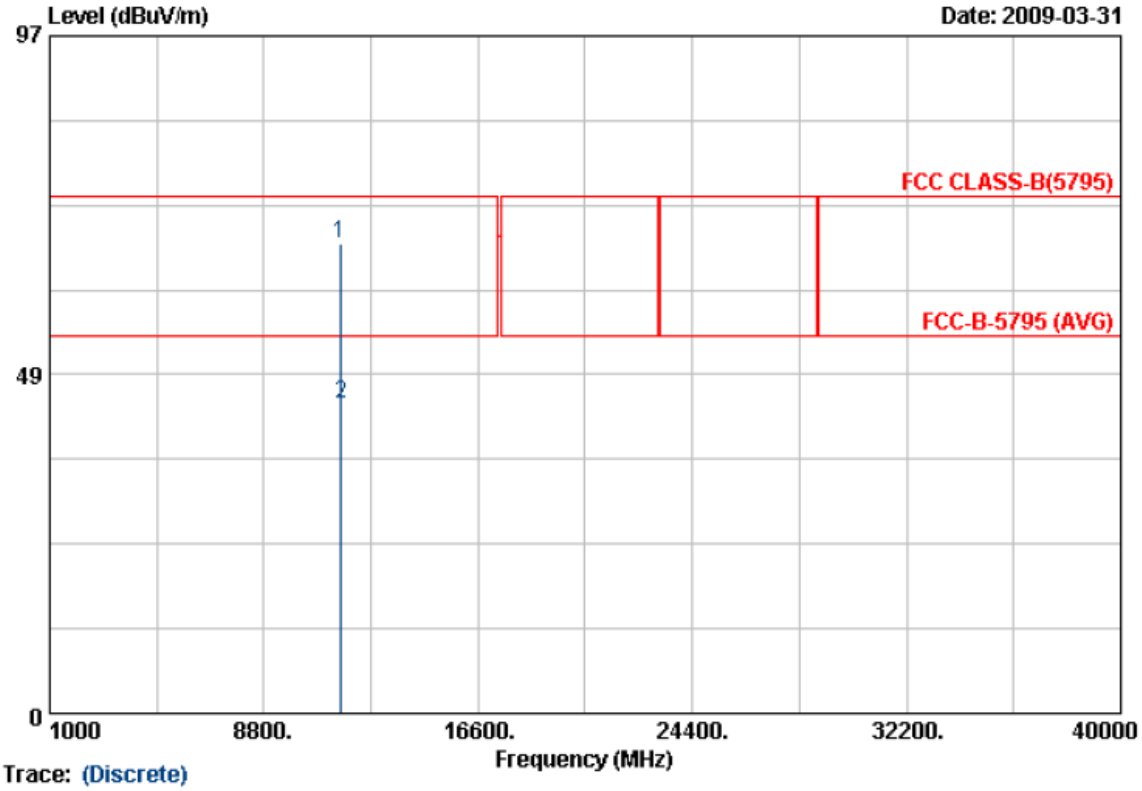
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	315.400	57.23	-28.22	29.01	46.00	-16.99	Peak	150	0
2	366.500	53.16	-28.01	25.15	46.00	-20.85	Peak	150	0
3	480.600	52.51	-24.90	27.61	46.00	-18.39	Peak	150	0
4	587.000	53.89	-23.62	30.27	46.00	-15.73	Peak	150	0
5	795.600	44.38	-25.34	19.04	46.00	-26.96	Peak	150	0
6	933.500	41.14	-23.82	17.32	46.00	-28.68	Peak	150	0

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. According to technical experiences,all spurious emission of 802.11an mode at channel 151,155,159 are almost the same below 1GHz,so that the channel 151 was chosen as representative in final test.
5. The data is worse case.

Power	:	AC 120V	Pol/Phase	:	VERTICAL
Test Mode	:	802.11an HT40, CH159	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



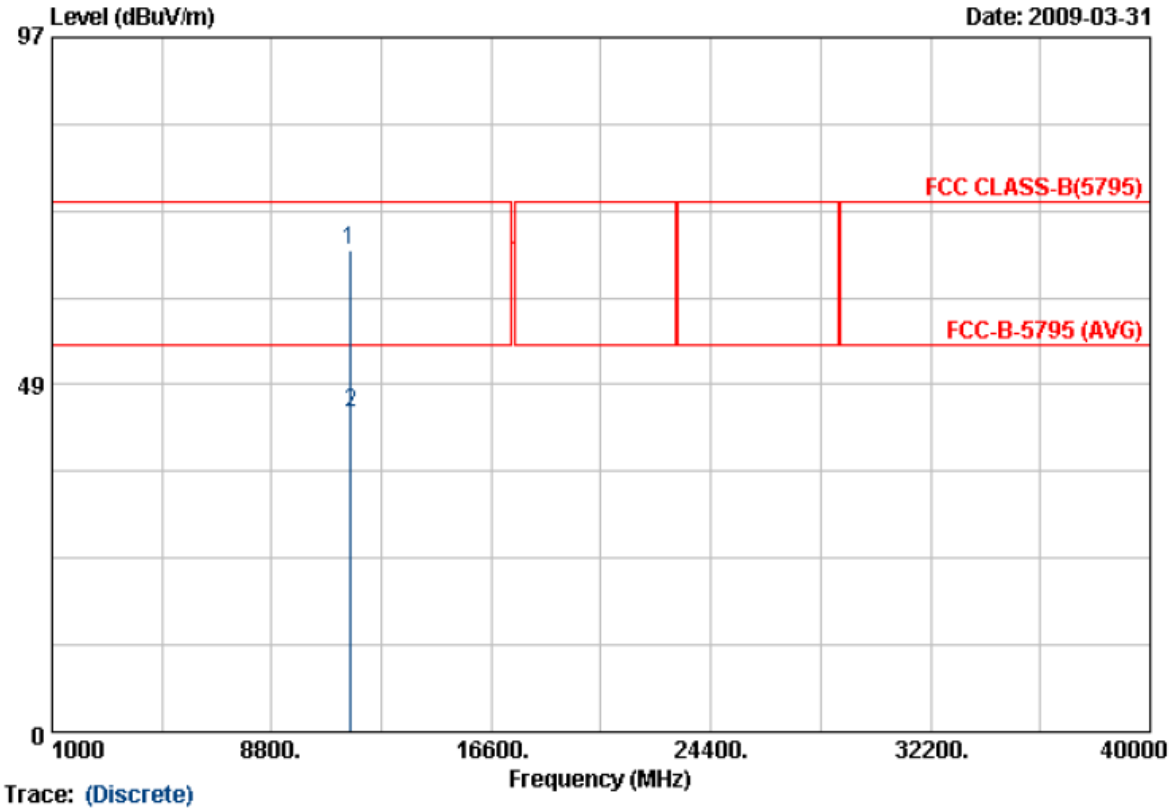
Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11586.490	43.63	23.62	67.25	74.00	-6.75	Peak	100	251
2	11593.580	20.72	23.61	44.33	54.00	-9.67	Average	100	145

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Power	:	AC 120V	Pol/Phase	:	HORIZONTAL
Test Mode	:	802.11an HT40, CH159	Temperature	:	22 °C
Memo	:	EUT with USB cable	Humidity	:	65 %



Trace: (Discrete)

Item	Freq	Read Value	Factor	Result	Limit	Margin	Remark	Ant Pos	Tab Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB		cm	Deg
1	11590.160	46.23	20.94	67.17	74.00	-6.83	Peak	100	203
2	11593.960	23.72	20.94	44.66	54.00	-9.34	Average	100	121

Notes:

1. Result = Read Value + Factor
2. Factor = Antenna Factor + Cable Loss - Amplifier
3. The resolution bandwidth of test receiver/spectrum analyzer is 120KHz and video bandwidth is 300kHz for Peak detection and Quasi-peak detection at frequency below 1GHz.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
5. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average detection at frequency above 1GHz.
6. The other emissions is too low to be measured.

Test engineer: Ben

6. 6dB Bandwidth Measurement Data

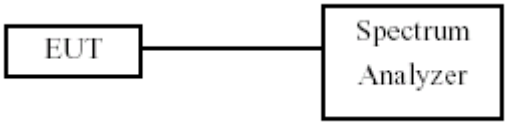
6.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

6.2 Test Procedures

a. The transmitter output was connected to the spectrum analyzer.
b. Set RBW of spectrum analyzer to 100 KHz and VBW to 100 KHz.
c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.

6.3 Test Setup Layout



6.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2009/02/21	2010/02/20

6.5 Test Result and Data

Test Date: Mar. 05, 2009 Temperature: 24℃

Atmospheric pressure: 1026 hPa Humidity: 49%

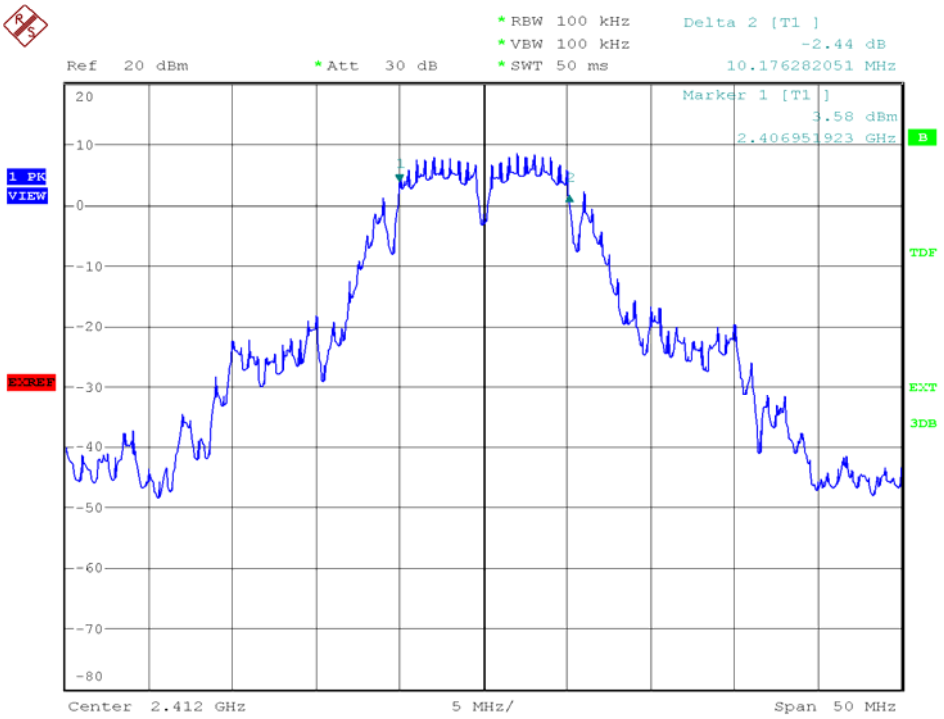
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			Ant R	Ant L
802.11b (11Mbps)	01	2412	10.17	10.17
	06	2437	10.17	10.17
	11	2462	10.17	10.25
802.11g (54Mbps)	01	2412	16.58	16.58
	06	2437	16.50	16.58
	11	2462	16.58	16.50
802.11n HT20 (130Mbps)	01	2412	17.70	17.70
	06	2437	17.78	17.70
	11	2462	17.78	17.62
802.11n HT40 (270Mbps)	03	2422	36.53	36.37
	06	2437	36.53	35.73
	09	2452	36.37	35.57

Test Date: Mar. 10, 2009 Temperature: 25℃

Atmospheric pressure: 1024 hPa Humidity: 48%

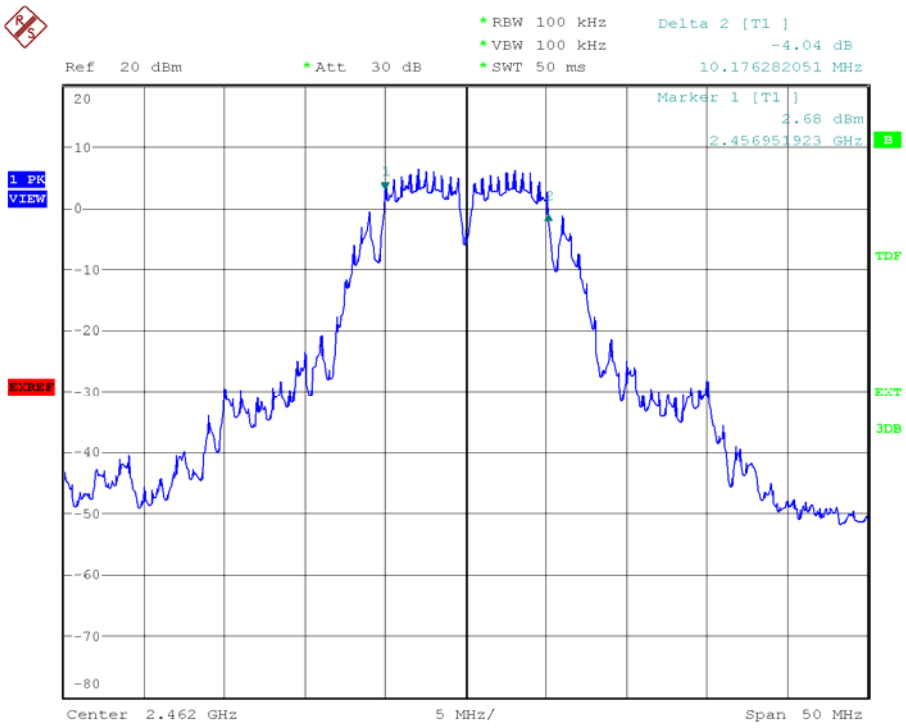
Modulation Standard	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	
			Ant R	Ant L
802.11a (6Mbps)	149	5745	16.42	16.50
	157	5785	16.50	16.42
	165	5825	16.42	16.42
802.11an HT20 (130Mbps)	149	5745	17.70	17.62
	157	5785	17.70	17.70
	165	5825	17.70	17.70
802.11an HT40 (270Mbps)	159	5795	36.21	36.37

Modulation Standard: 802.11b (11Mbps), Ant R
Channel: 01

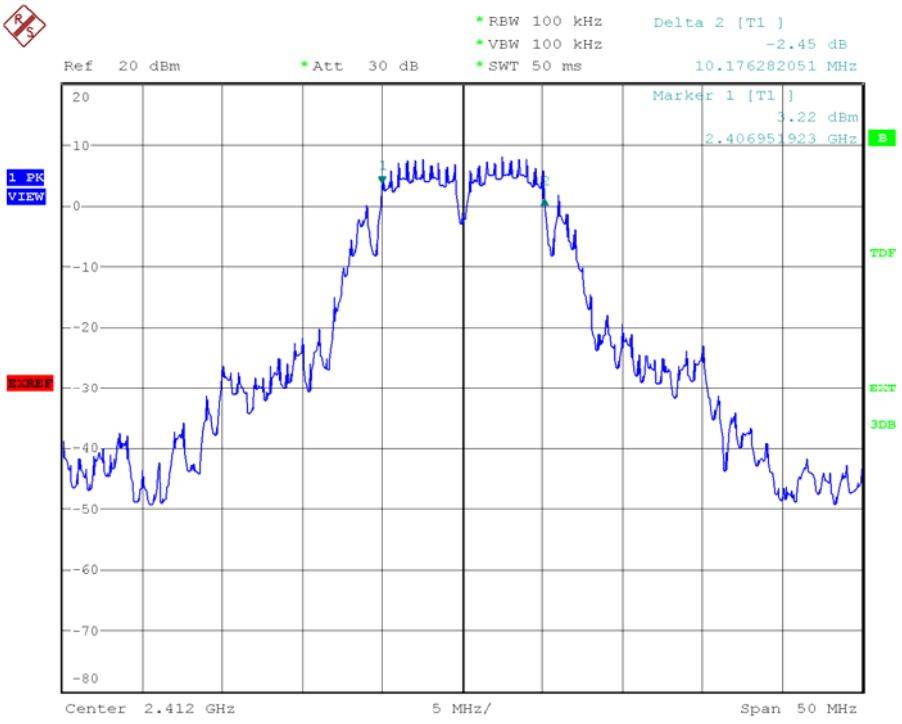


Modulation Standard: 802.11b (11Mbps), Ant R
Channel: 06

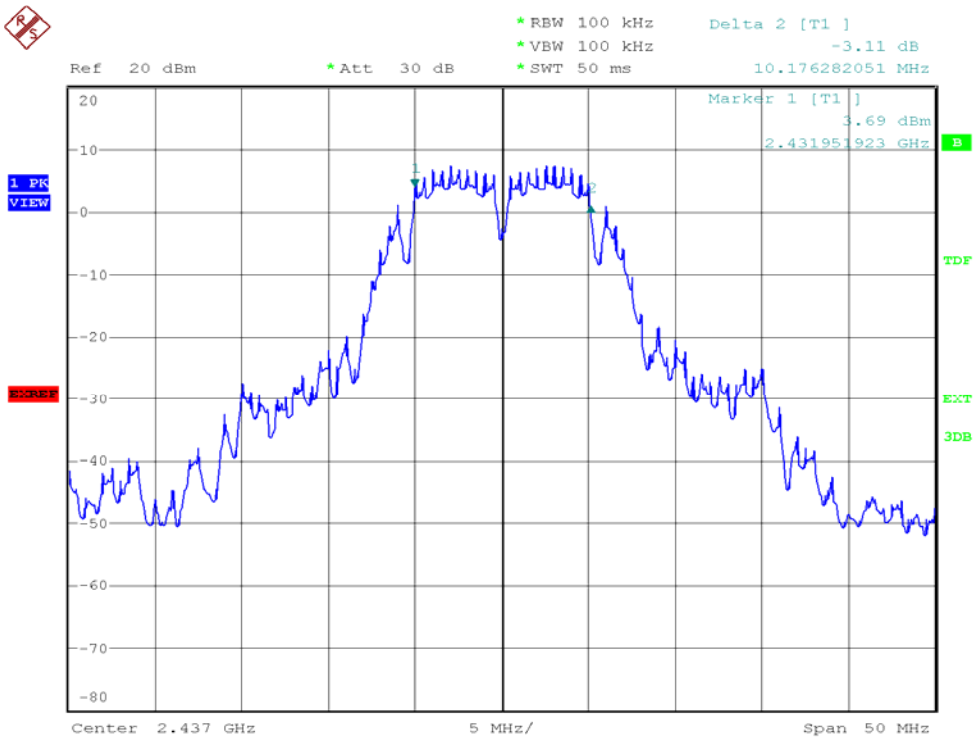
Modulation Standard: 802.11b (11Mbps), Ant R
Channel: 11



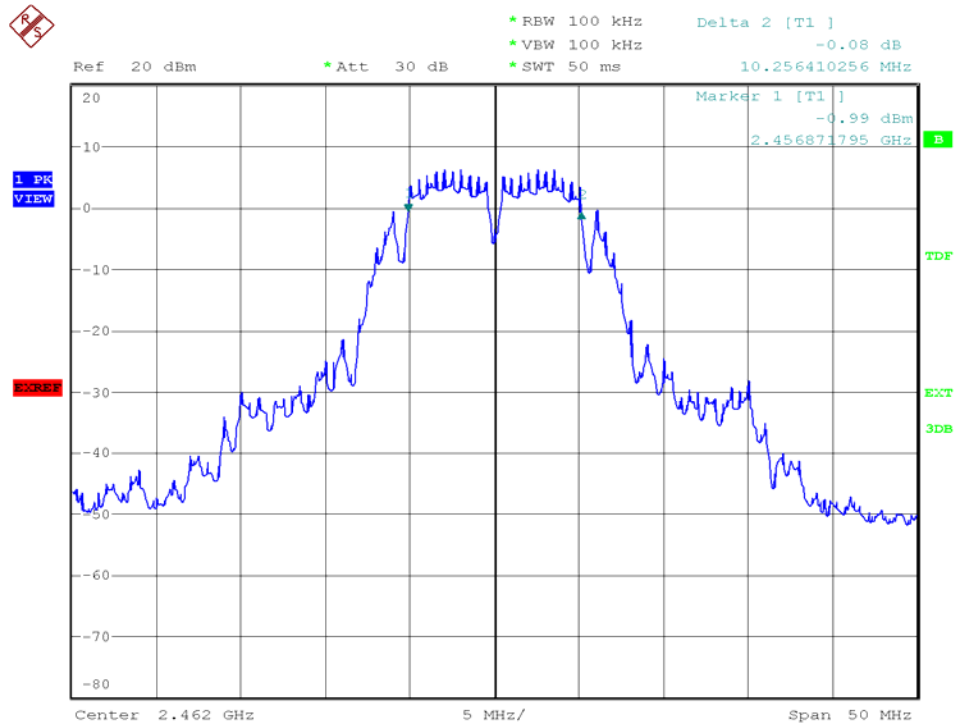
Modulation Standard: 802.11b (11Mbps), Ant L
Channel: 01



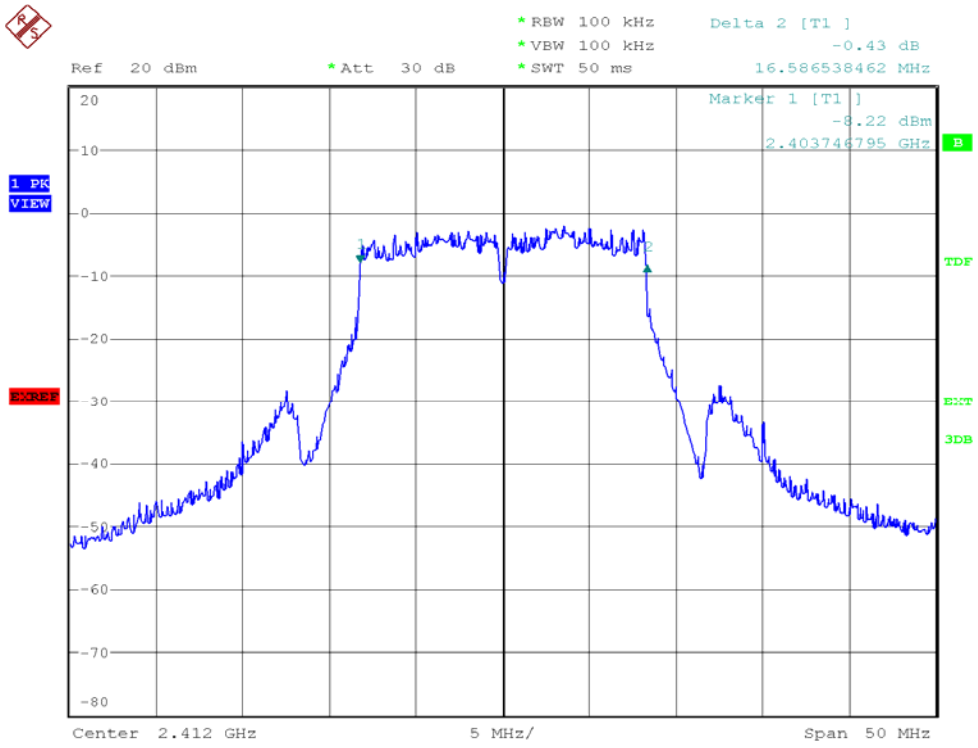
Modulation Standard: 802.11b (11Mbps), Ant L
Channel: 06



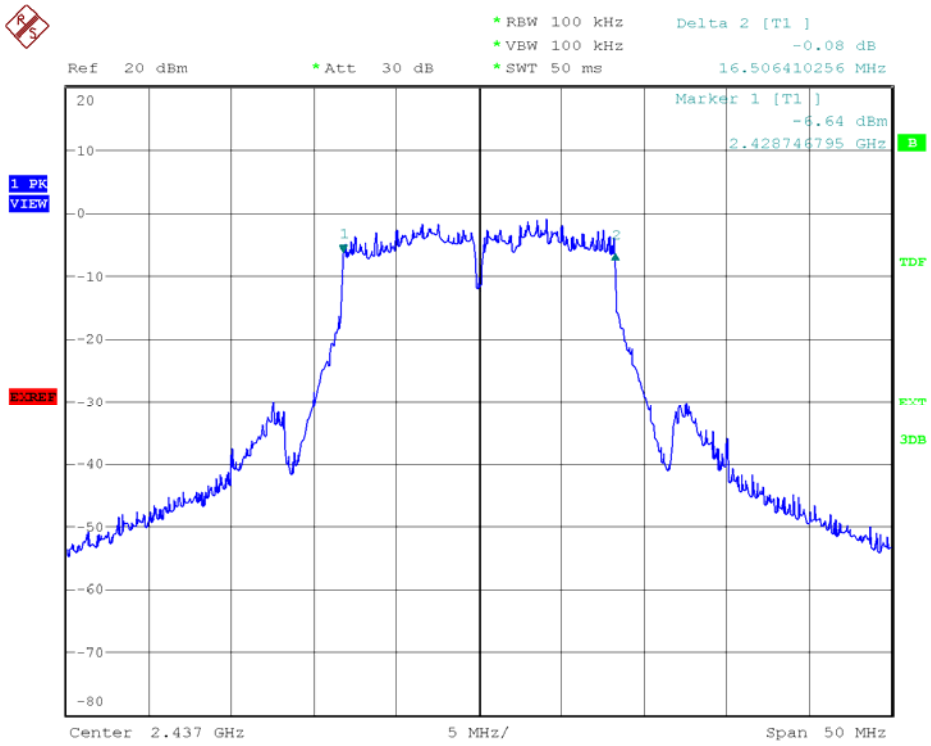
Modulation Standard: 802.11b (11Mbps), Ant L
Channel: 11



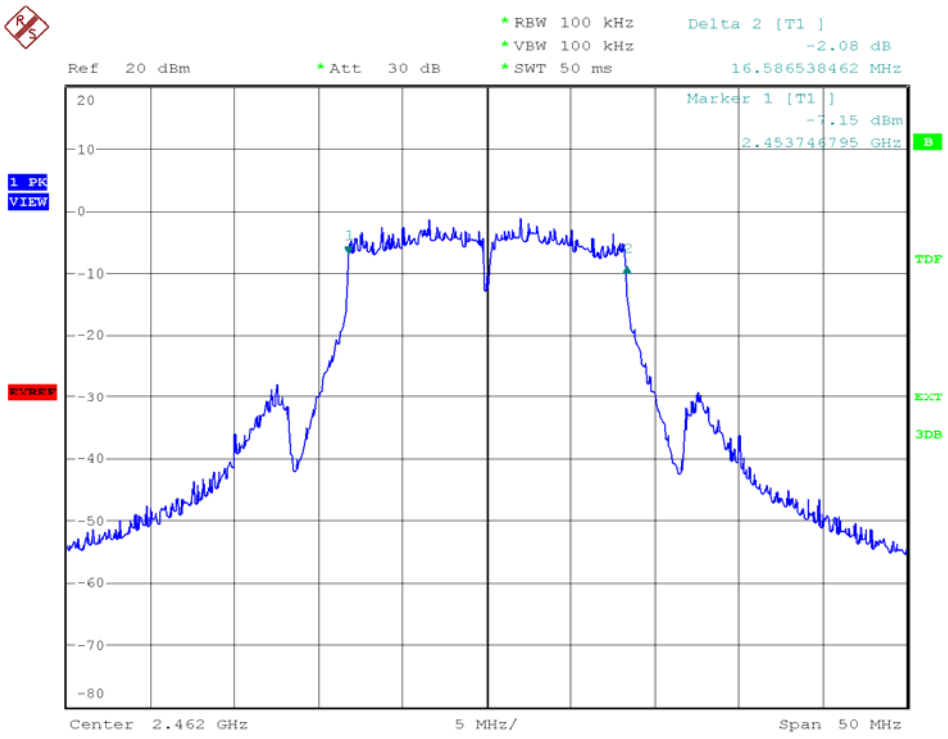
Modulation Standard: 802.11g (54Mbps), Ant R
Channel: 01



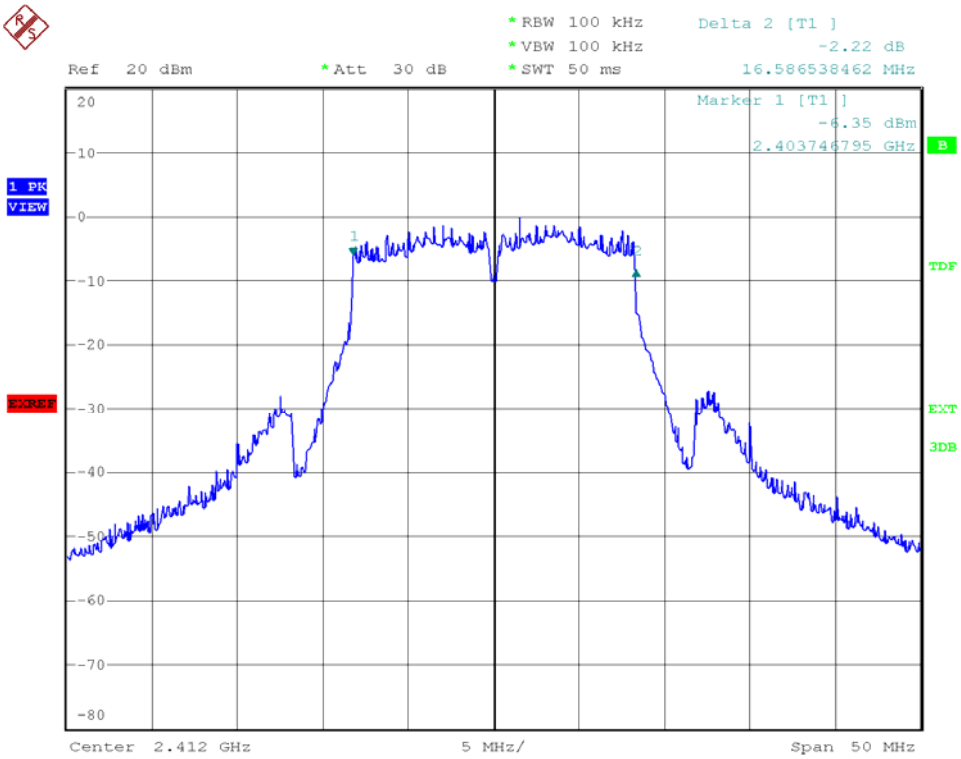
Modulation Standard: 802.11g (54Mbps), Ant R
Channel: 06



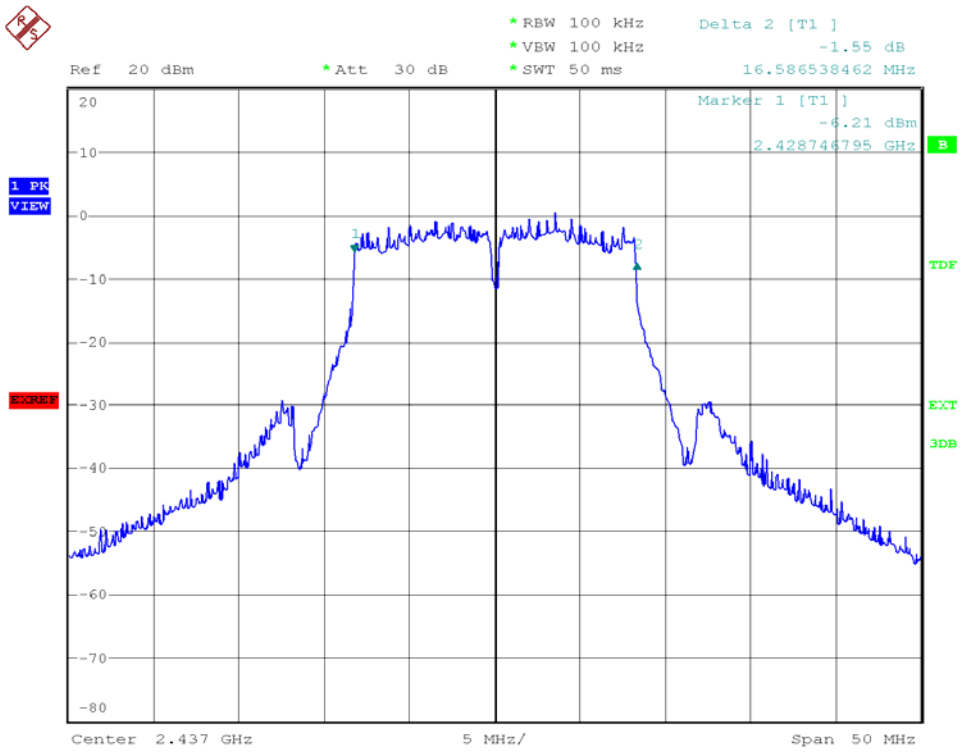
Modulation Standard: 802.11g (54Mbps), Ant R
Channel: 11



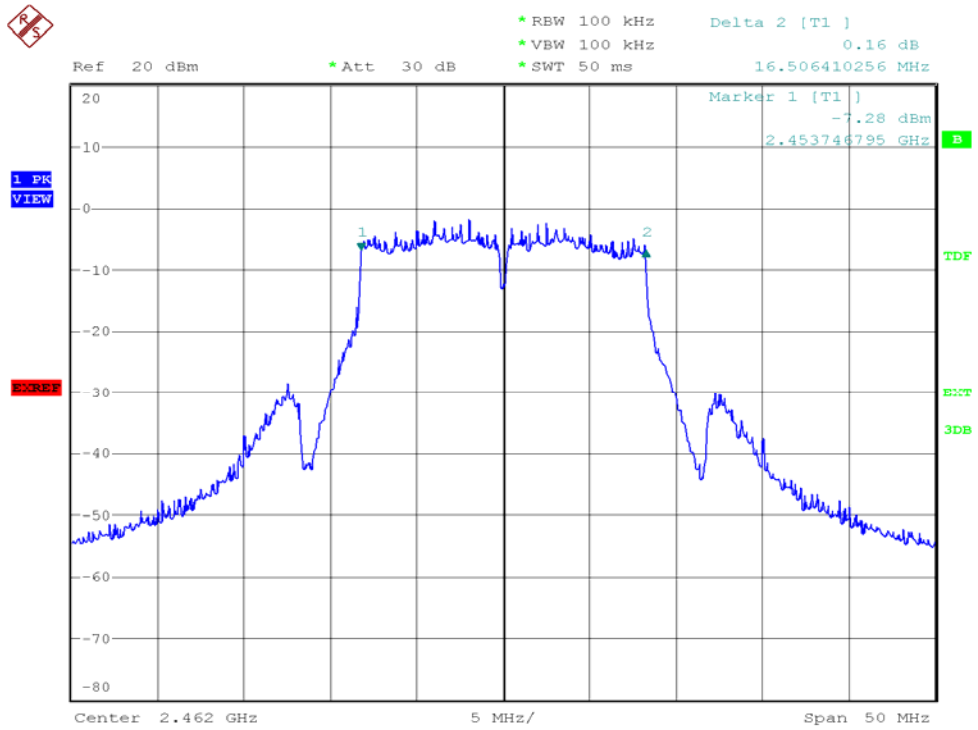
Modulation Standard: 802.11g (54Mbps), Ant L
Channel: 01



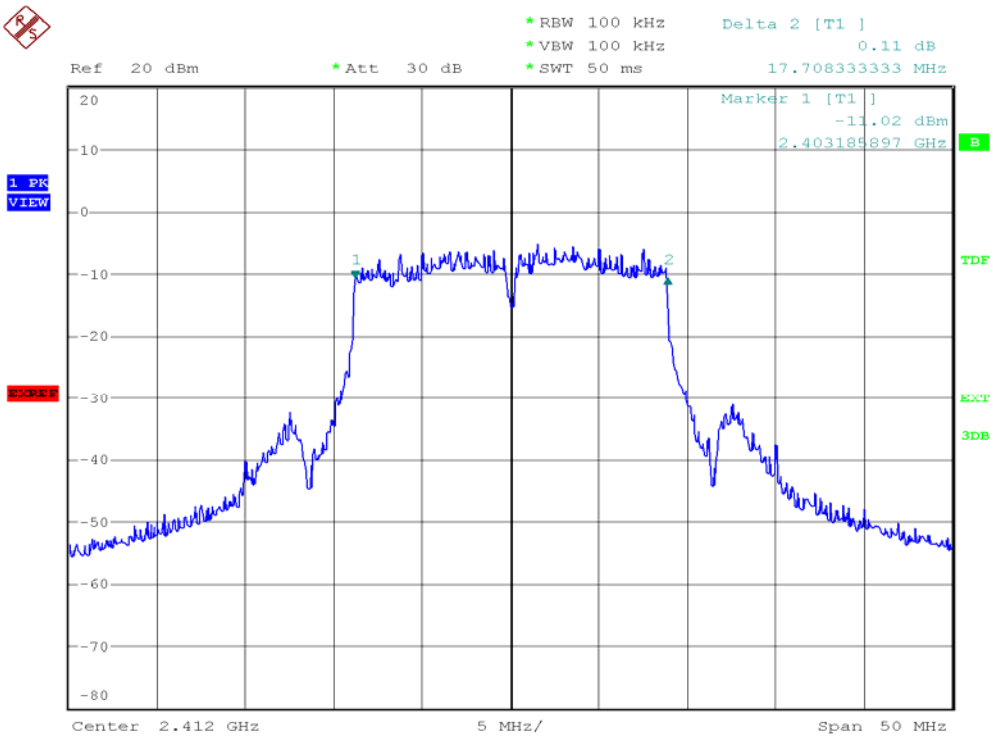
Modulation Standard: 802.11g (54Mbps), Ant L
Channel: 06



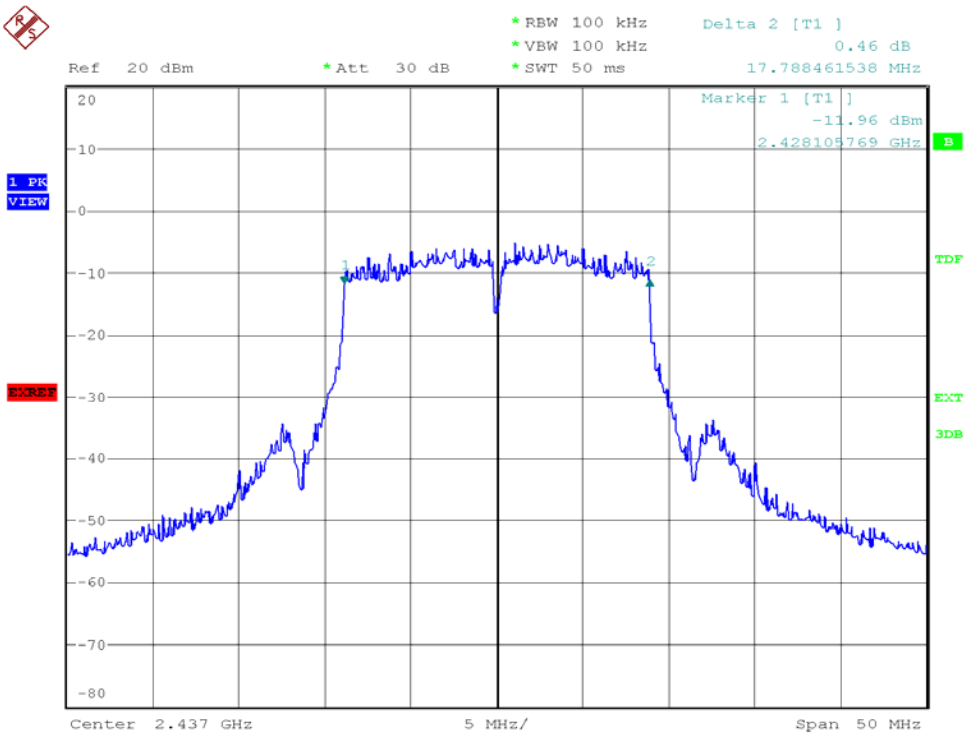
Modulation Standard: 802.11g (54Mbps), Ant L
Channel: 11



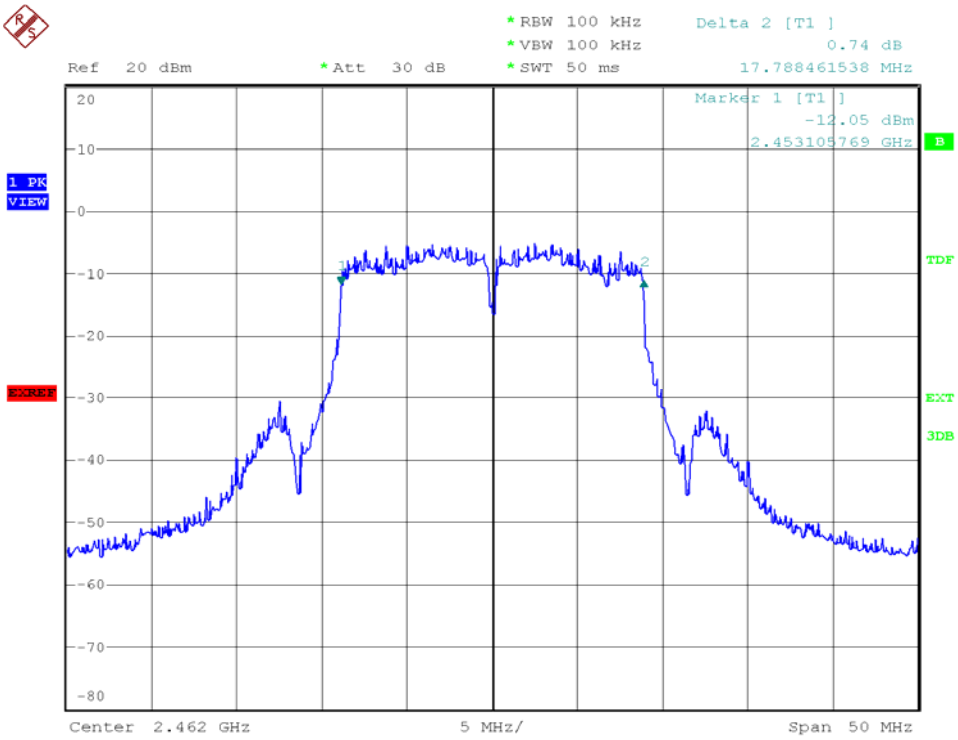
Modulation Standard: 802.11n HT20 (130Mbps), Ant R
Channel: 01



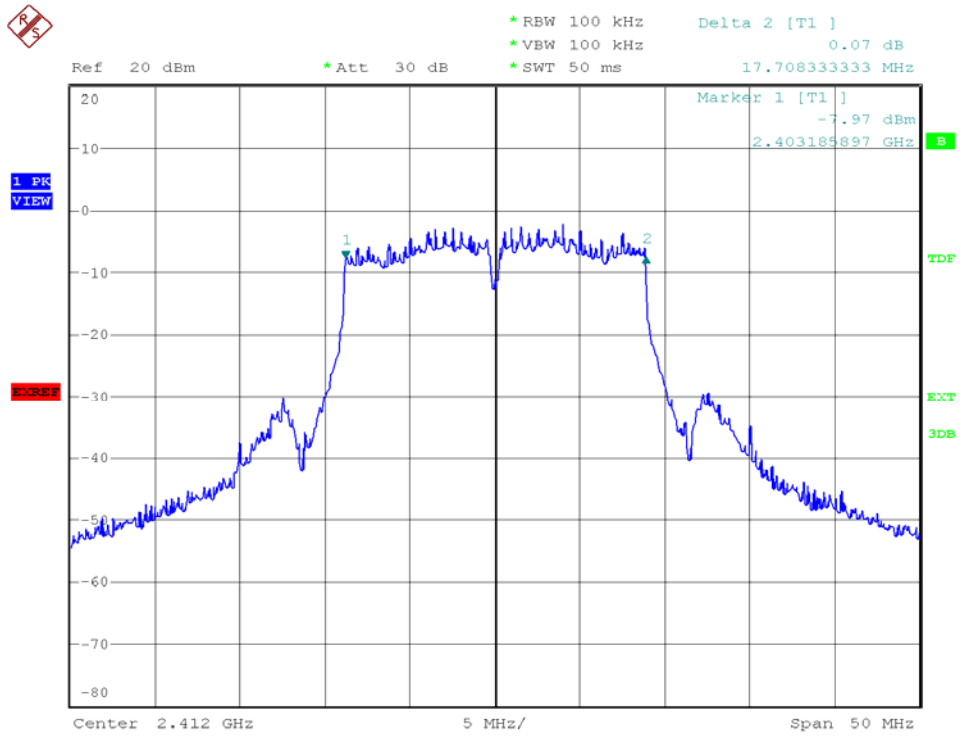
Modulation Standard: 802.11n HT20 (130Mbps), Ant R
Channel: 06



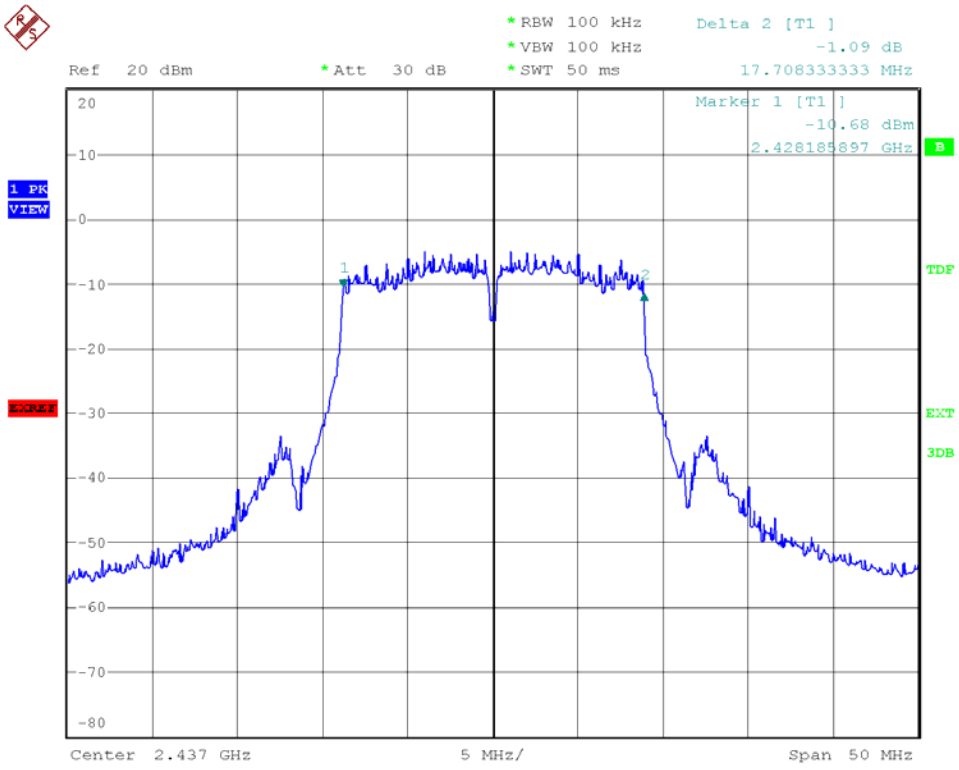
Modulation Standard: 802.11n HT20 (130Mbps), Ant R
Channel: 11



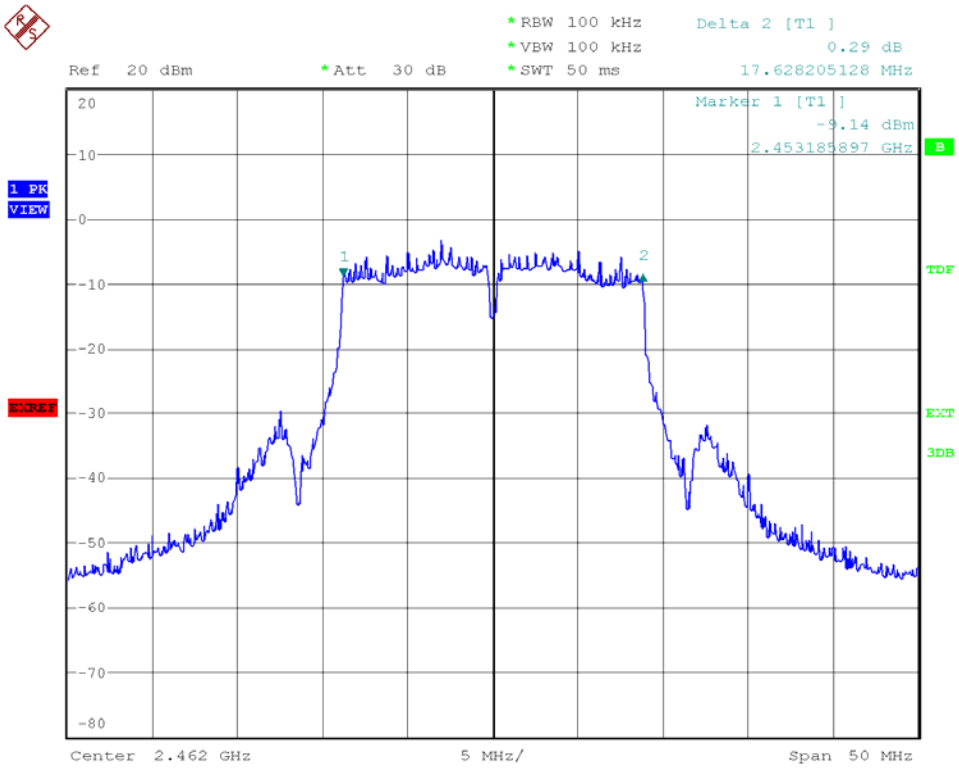
Modulation Standard: 802.11n HT20 (130Mbps), Ant L
Channel: 01



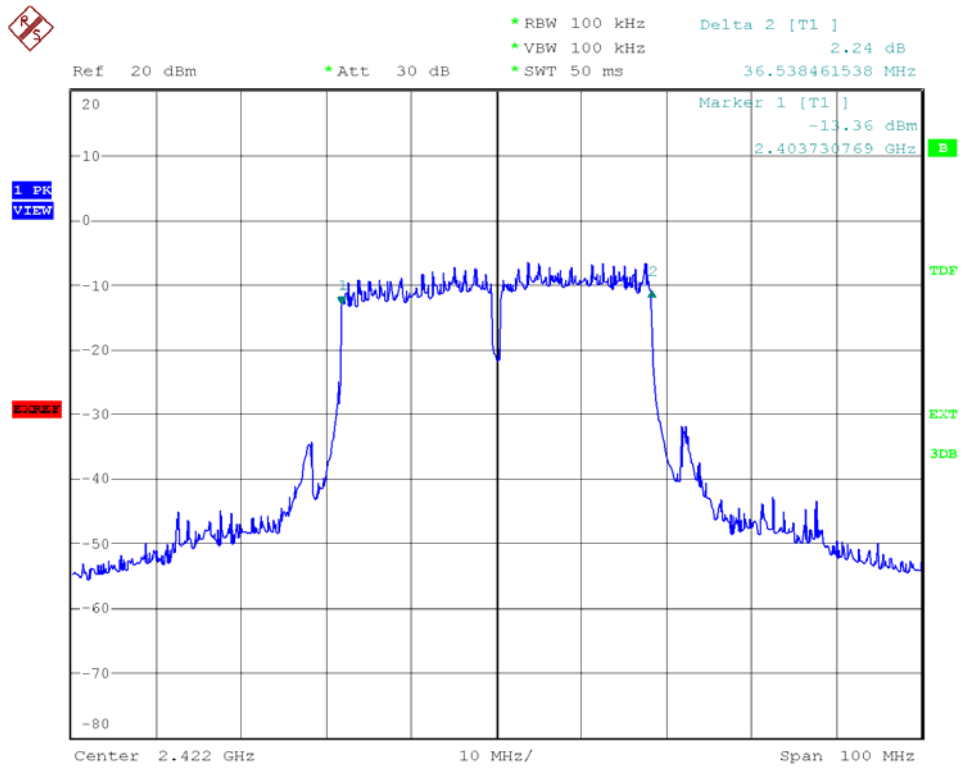
Modulation Standard: 802.11n HT20 (130Mbps), Ant L
Channel: 06



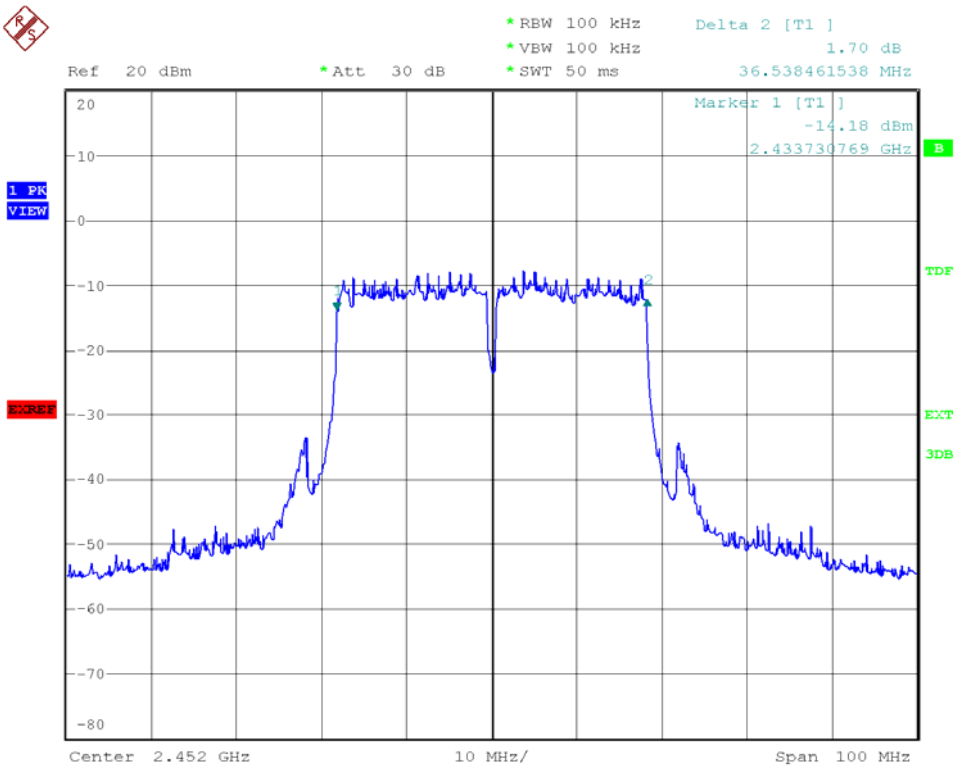
Modulation Standard: 802.11n HT20 (130Mbps), Ant L
Channel: 11



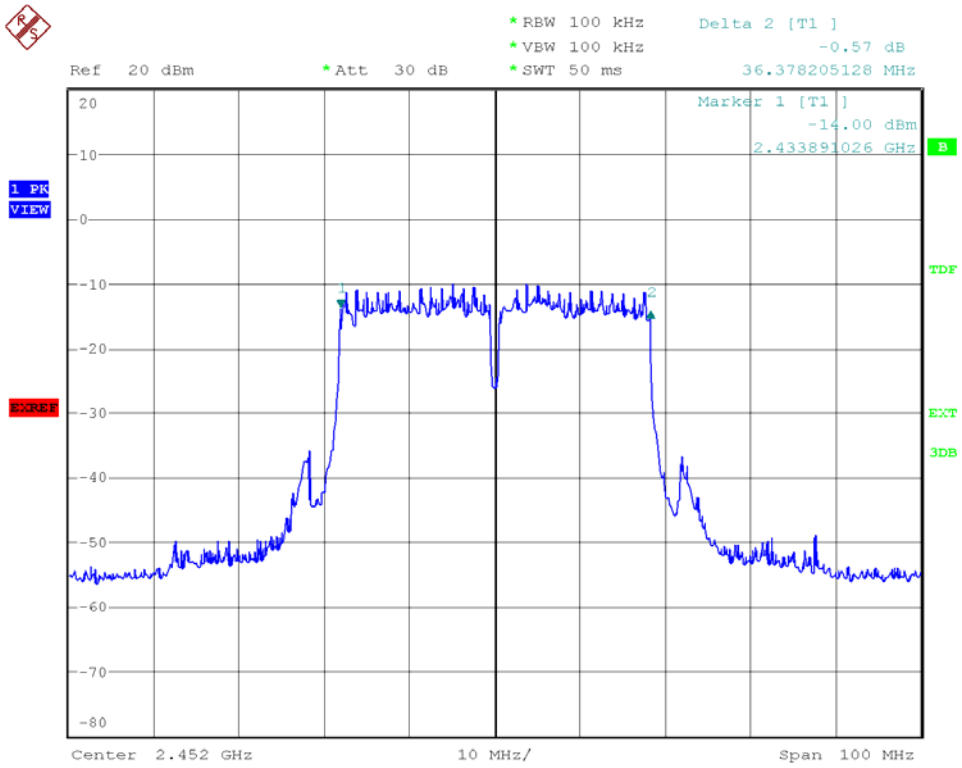
Modulation Standard: 802.11n HT40 (270Mbps), Ant R
Channel: 03



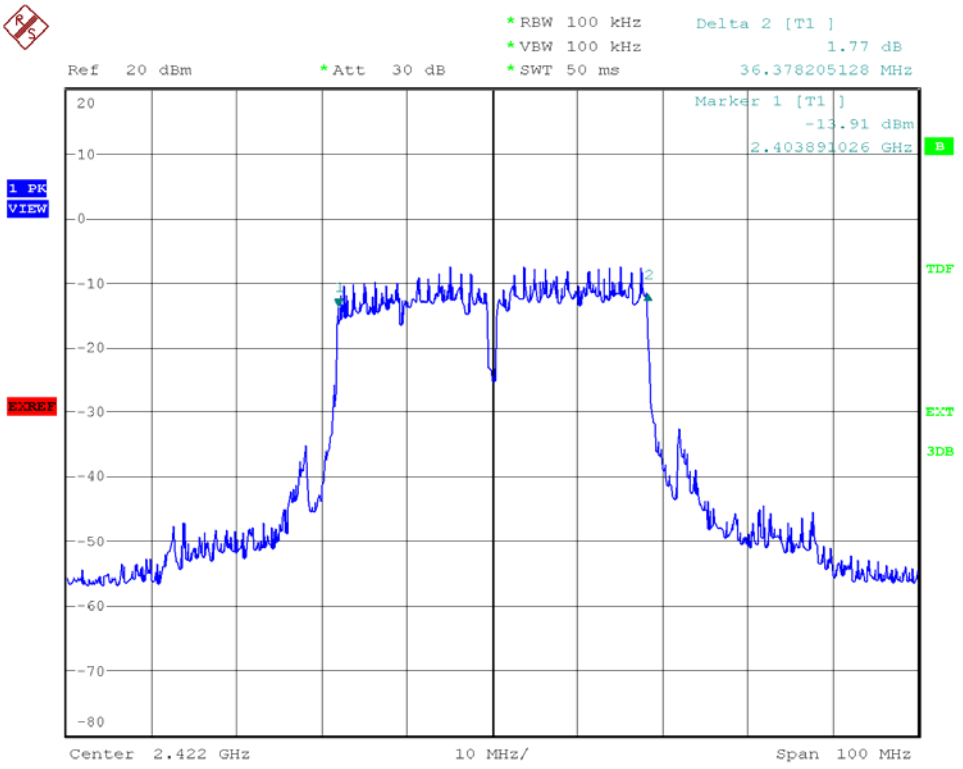
Modulation Standard: 802.11n HT40 (270Mbps), Ant R
Channel: 06



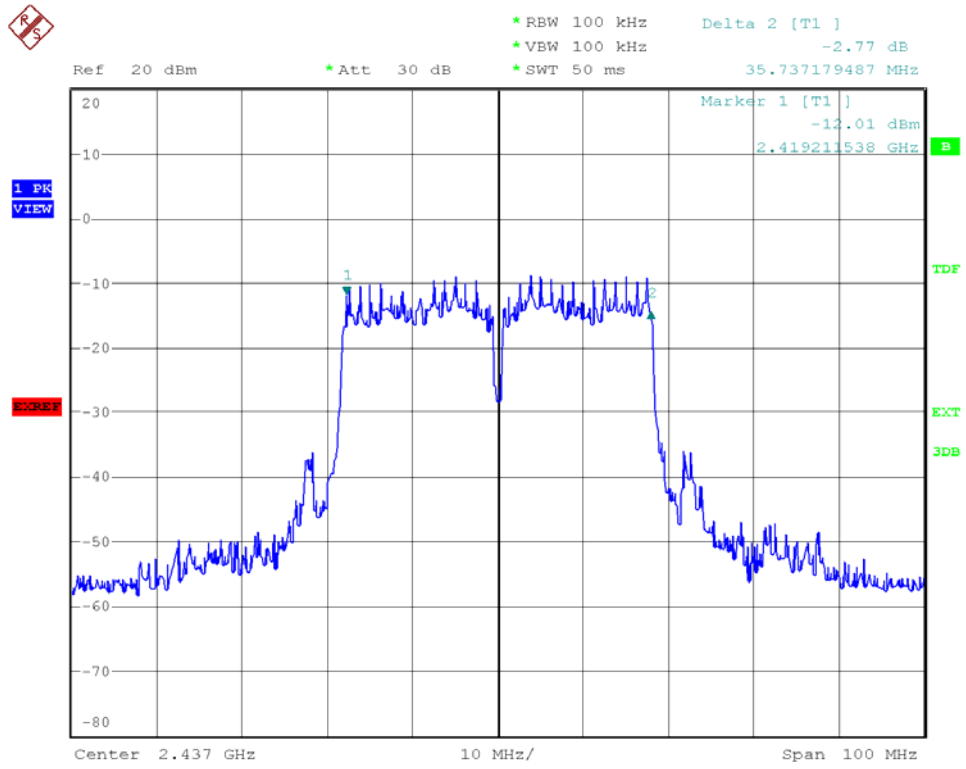
Modulation Standard: 802.11n HT40 (270Mbps), Ant R
Channel: 09



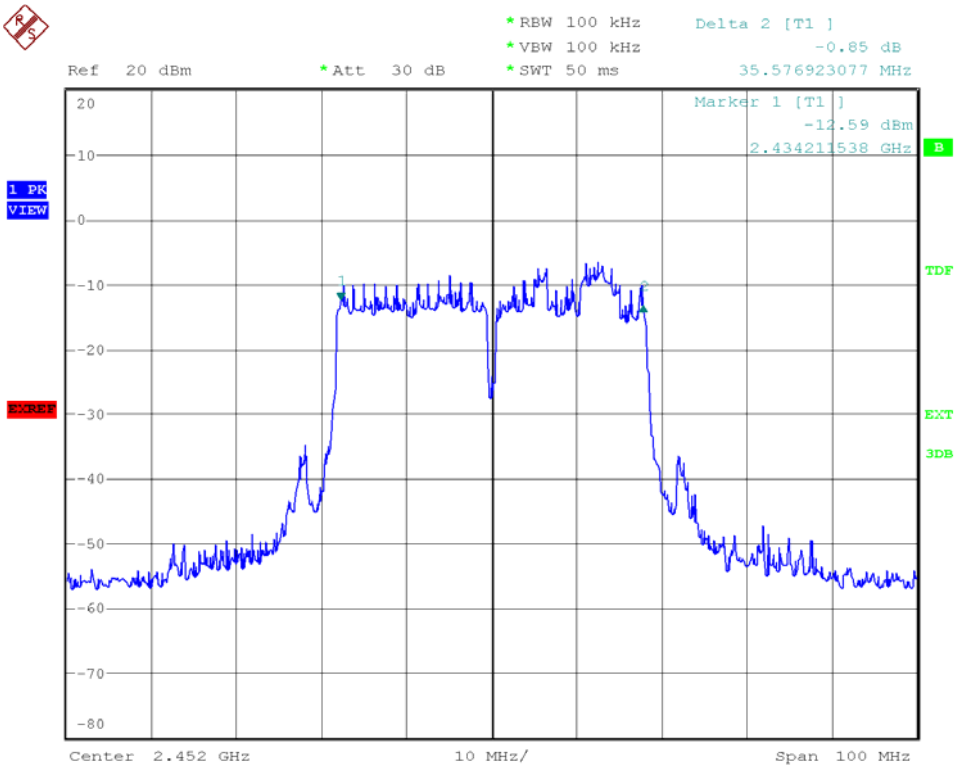
Modulation Standard: 802.11n HT40 (270Mbps), Ant L
Channel: 03



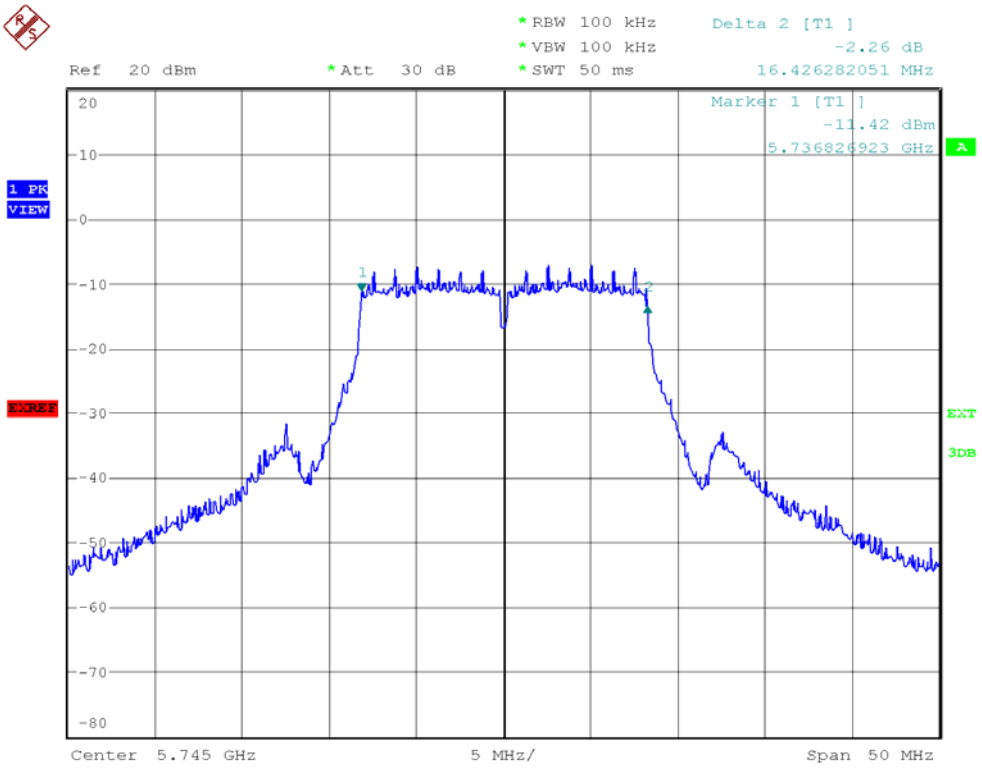
Modulation Standard: 802.11n HT40 (270Mbps), Ant L
Channel: 06



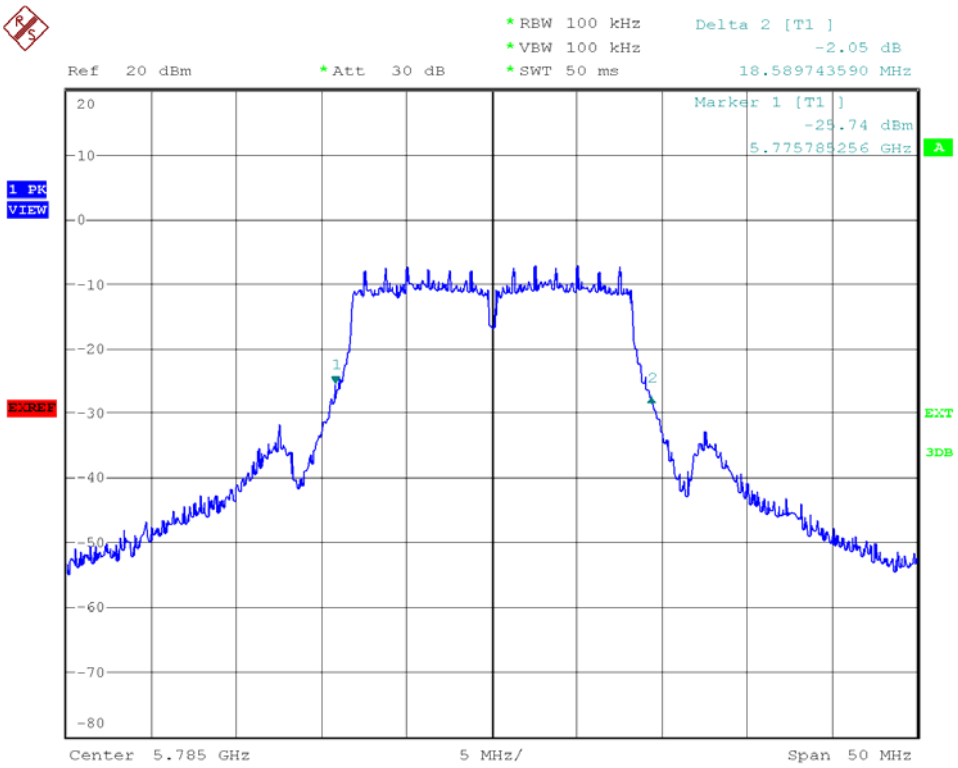
Modulation Standard: 802.11n HT40 (270Mbps), Ant L
Channel: 09



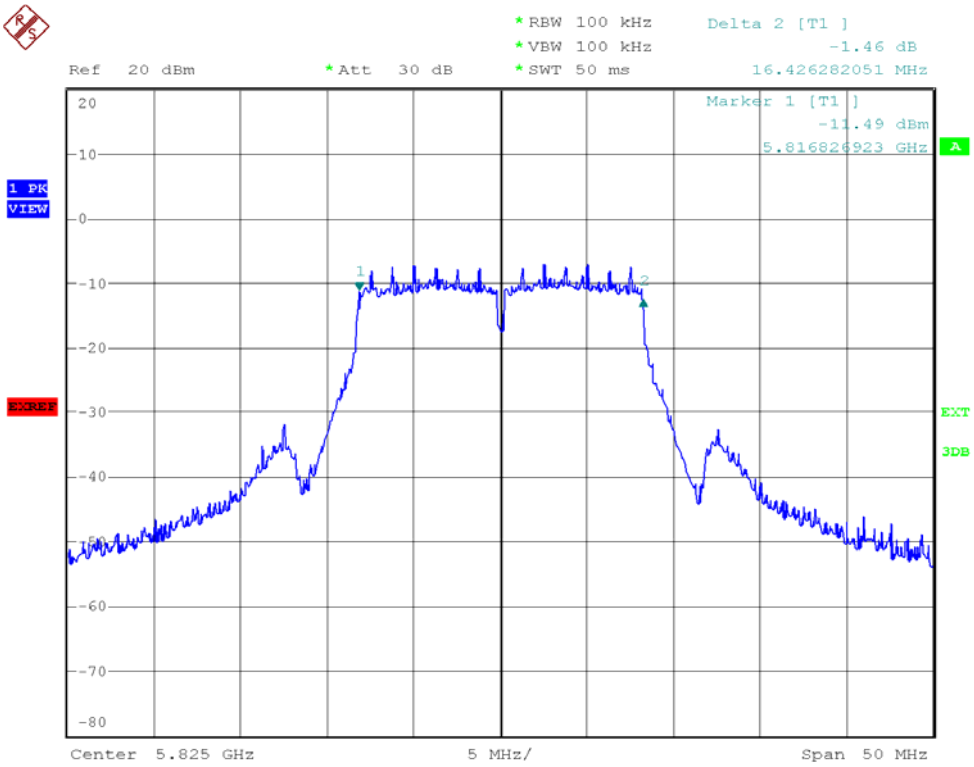
Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 149



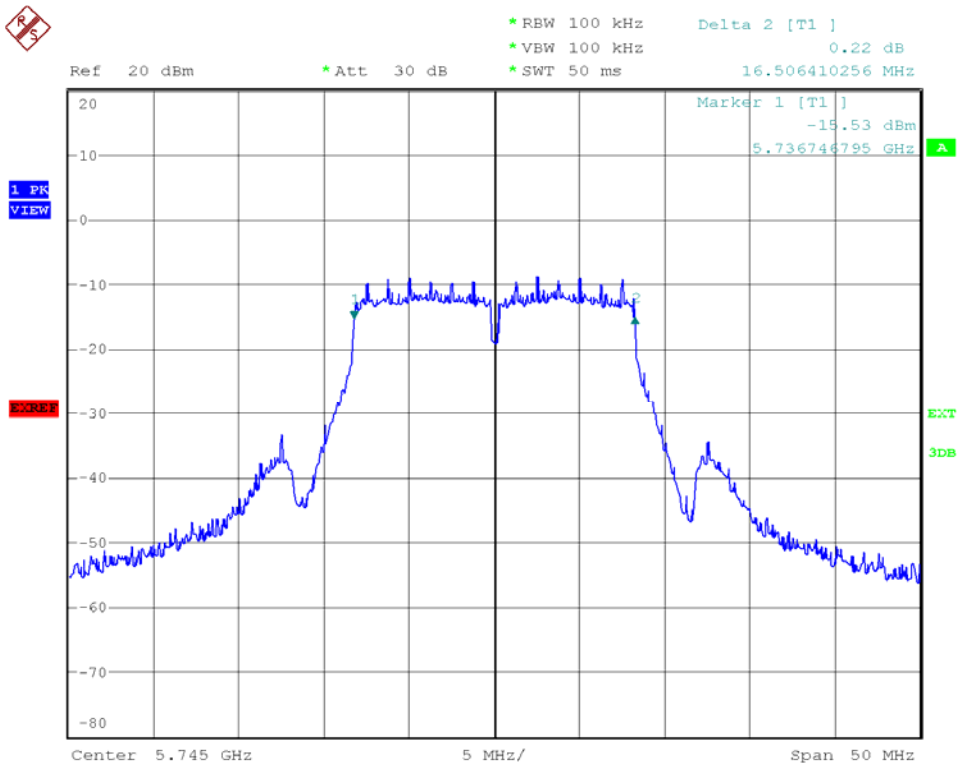
Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 157



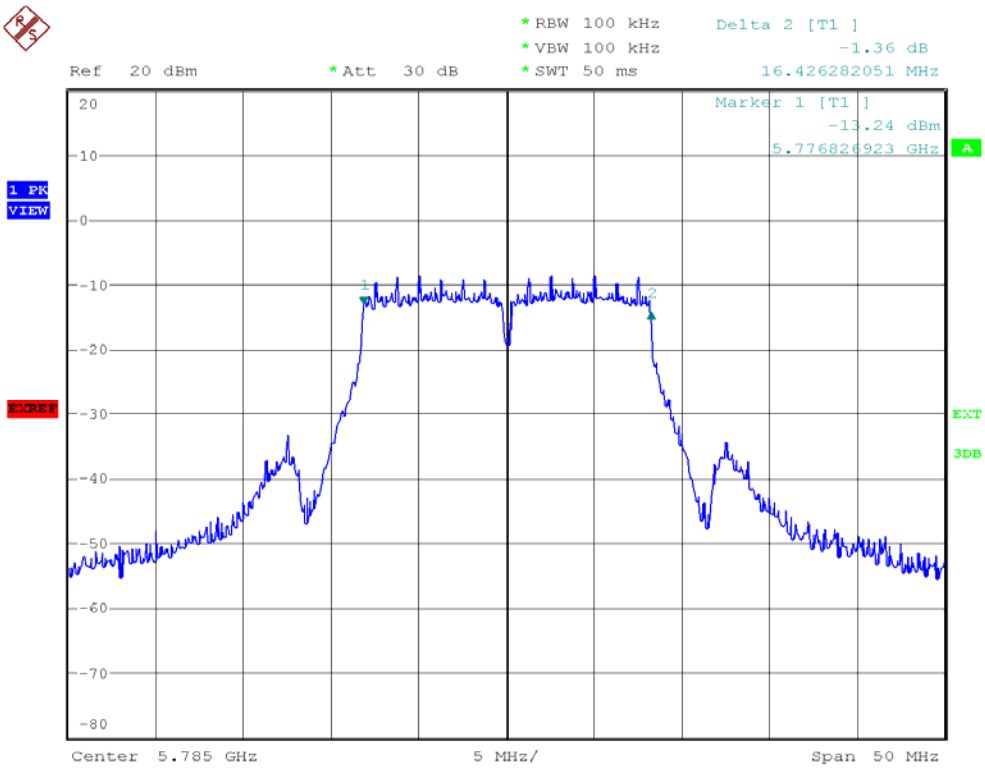
Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 165



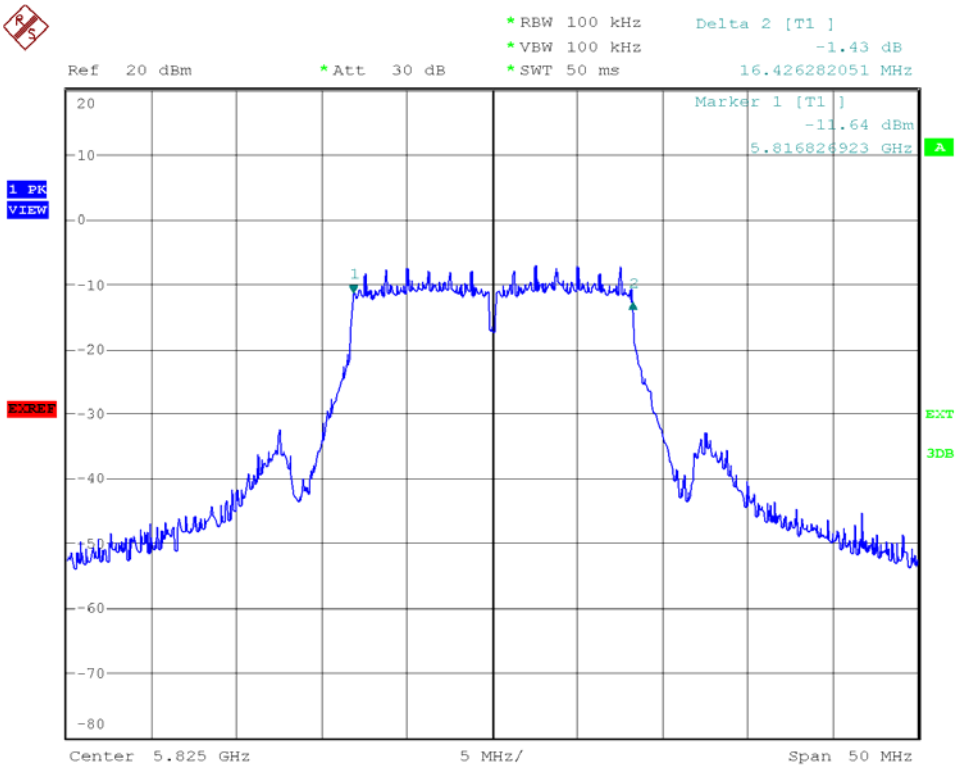
Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 149



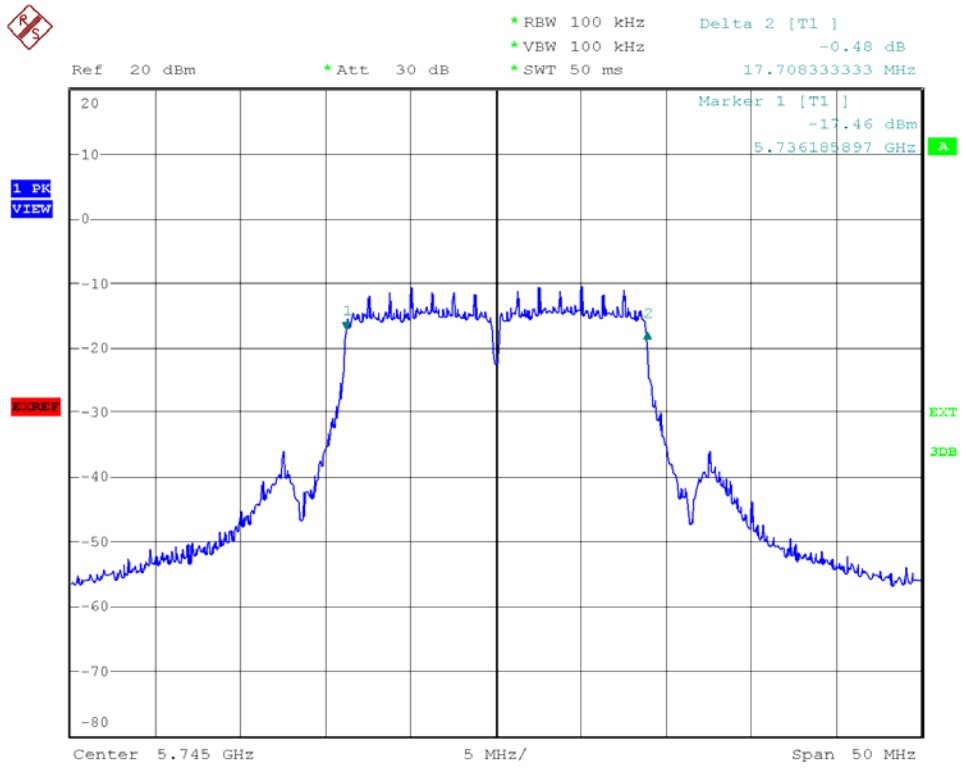
Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 157



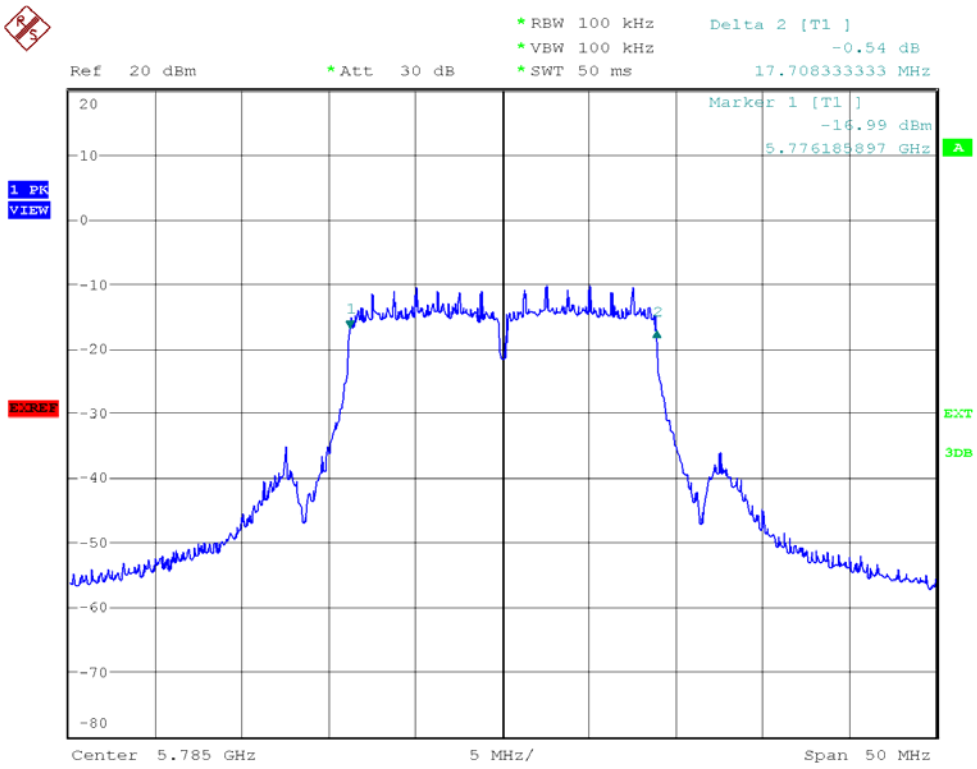
Modulation Standard: 802.11a (6Mbps), Ant L
Channel: 165



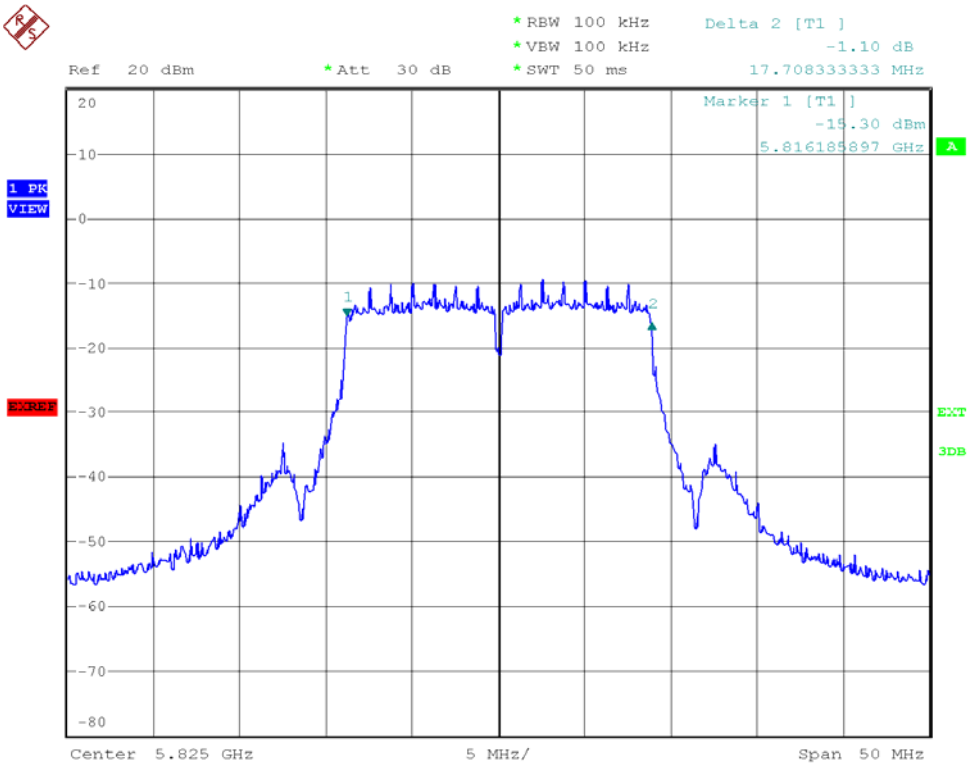
Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 149



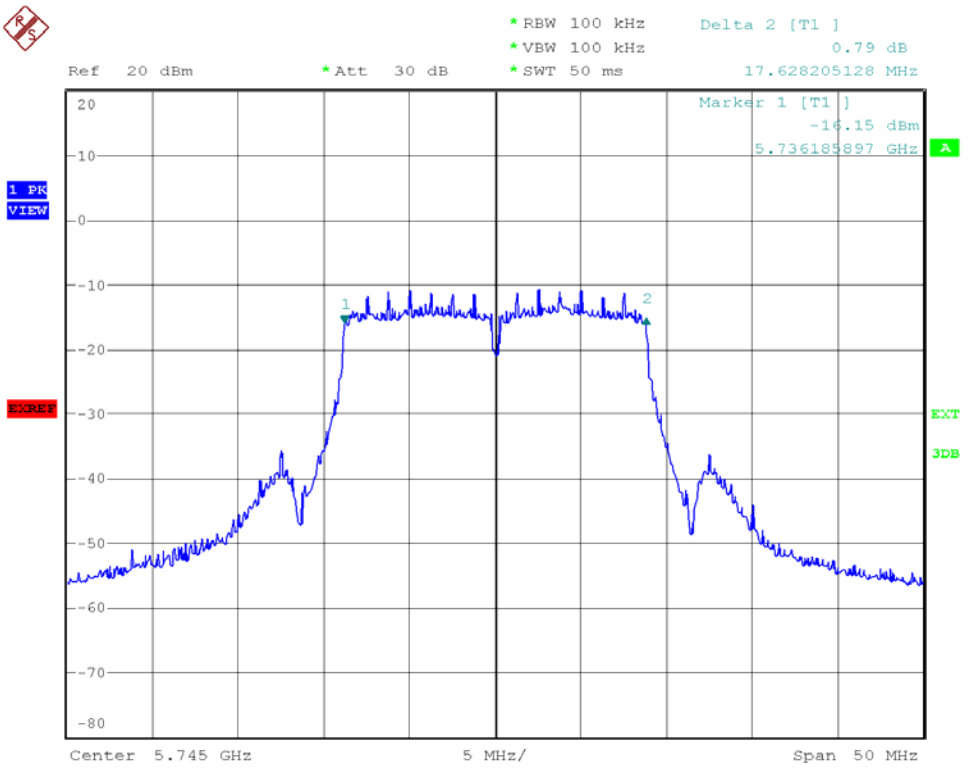
Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 157



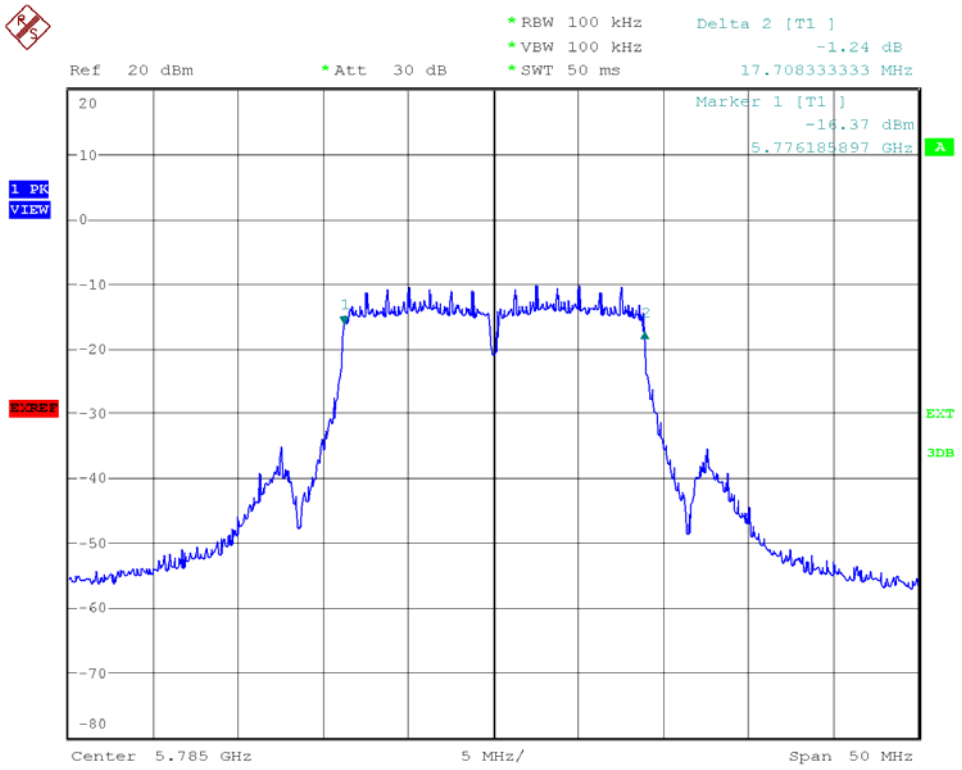
Modulation Standard: 802.11an HT20 (130Mbps), Ant R
Channel: 165



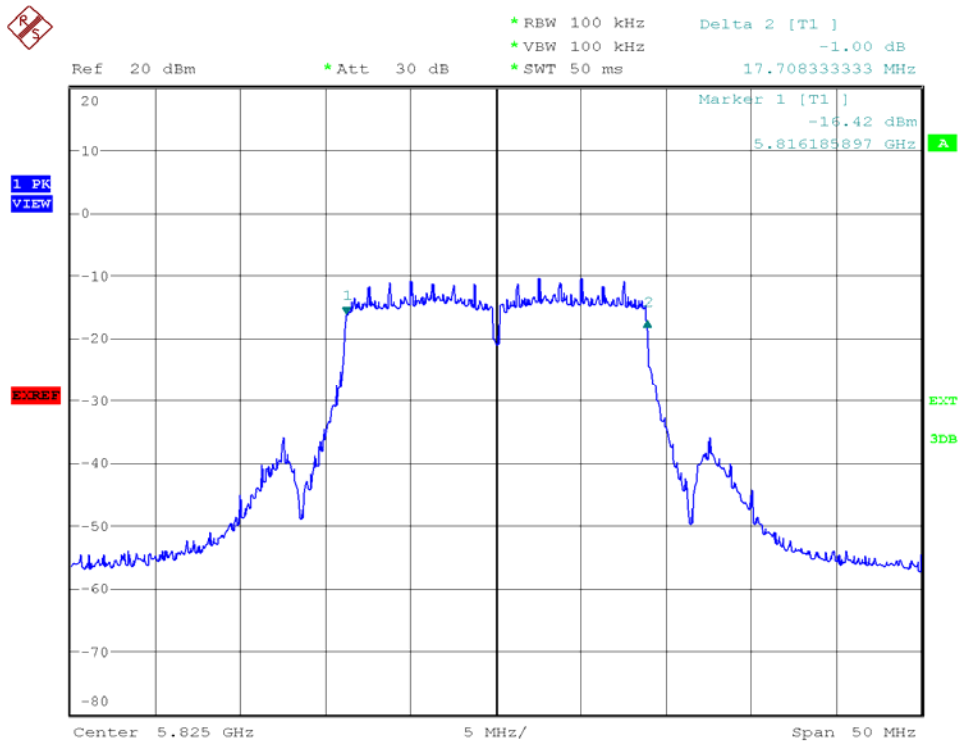
Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 149



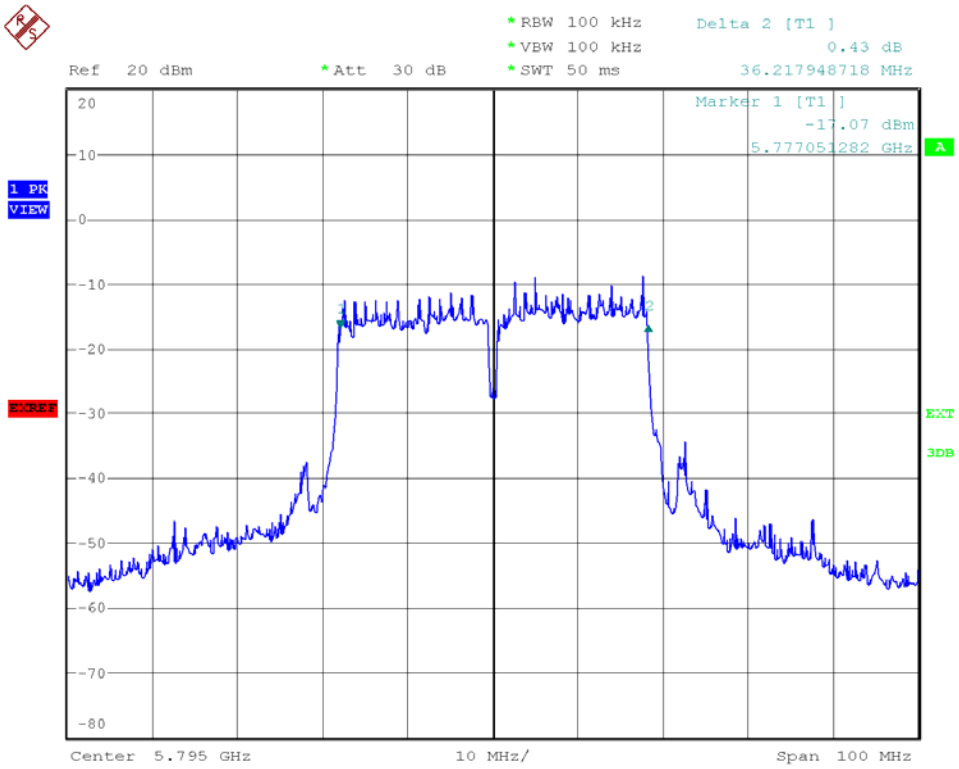
Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 157



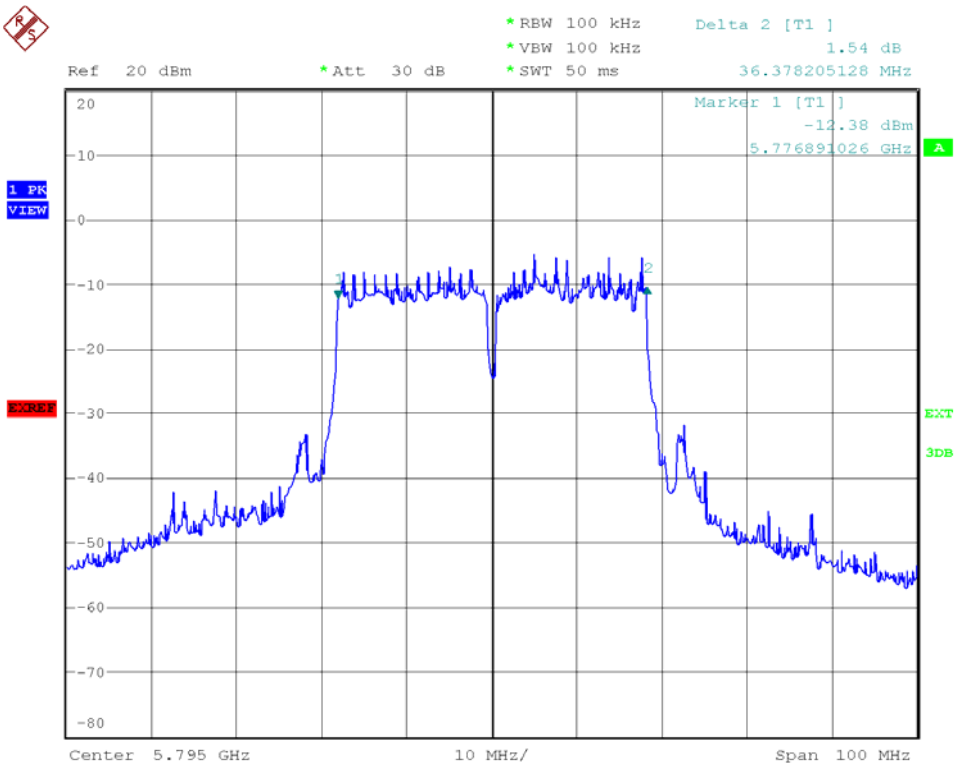
Modulation Standard: 802.11an HT20 (130Mbps), Ant L
Channel: 165



Modulation Standard: 802.11an HT40 (270Mbps), Ant R
Channel: 159



Modulation Standard: 802.11an HT40 (270Mbps), Ant L
Channel: 159



7. Maximum Peak Output Power

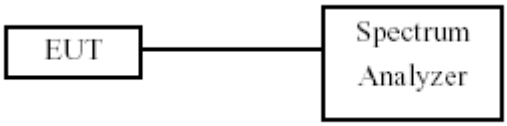
7.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

7.2 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.

7.3 Test Setup Layout



7.4 Measurement Equipment

Instrument/Ancillary	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Spectrum Analyzer	FSP40	R&S	10047	2009/02/21	2010/02/20

7.5 Test Result and Data

Test Date: Mar. 02, 2009 Temperature: 23℃

Atmospheric pressure: 1025 hPa Humidity: 48%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			Ant R	Ant L	Ant R	Ant L
802.11b (11Mbps)	01	2412	19.17	18.92	82.60	78.00
	06	2437	19.37	19.11	86.50	81.50
	11	2462	19.40	19.03	87.10	80.00
802.11g (54Mbps)	01	2412	16.37	16.43	43.40	44.00
	06	2437	16.39	16.02	43.60	40.00
	11	2462	16.31	16.08	42.80	40.60

Test Date: Mar. 02, 2009 Temperature: 23℃

Atmospheric pressure: 1025 hPa Humidity: 48%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			Ant R	Ant L	Ant R+L	Ant R+L
802.11n HT20 (130Mbps)	01	2412	12.96	13.3	16.14	41.15
	06	2437	13.07	13.08	16.09	40.60
	11	2462	13.14	13.31	16.24	42.04
802.11n HT40 (270Mbps)	03	2422	13.38	13.23	16.32	42.81
	06	2437	13.28	13.00	16.15	41.23
	09	2452	13.12	13.02	16.08	40.56

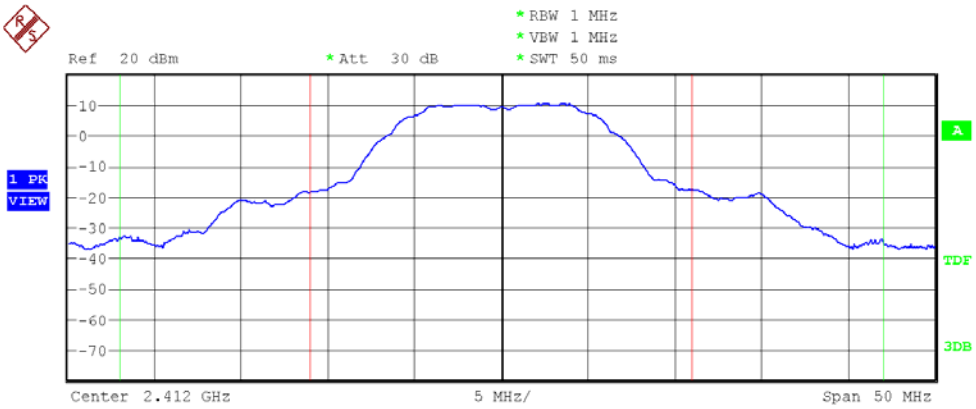
Test Date: Mar. 10, 2009 Temperature: 25℃

Atmospheric pressure: 1024 hPa Humidity: 48%

Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)		Peak Power Output (mW)	
			Ant R	Ant L	Ant R	Ant L
802.11a (6Mbps)	149	5745	15.29	14.60	34.81	29.84
	157	5785	15.20	14.57	34.11	29.64
	165	5825	15.22	14.91	34.27	31.97

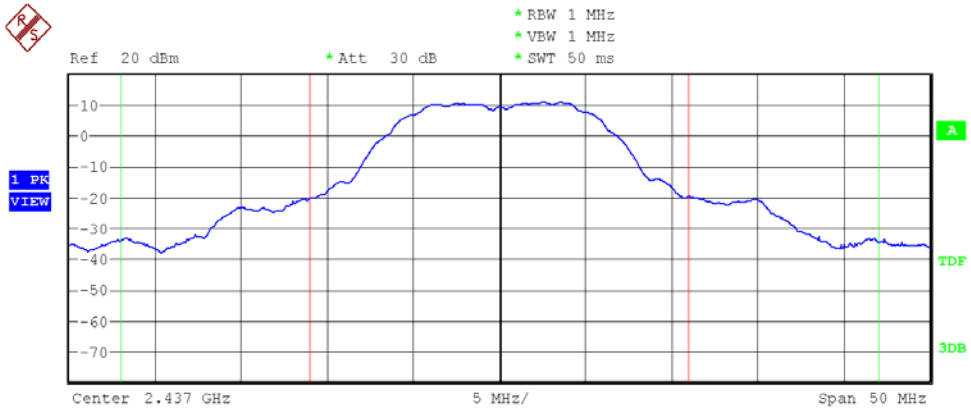
Modulation Standard	Channel	Frequency (MHz)	Peak Power Output (dBm)			Peak Power Output (mW)
			Ant R	Ant L	Ant R+L	Ant R+L
802.11an HT20 (130Mbps)	149	5745	12.50	11.65	15.11	32.40
	157	5785	12.30	11.86	15.10	32.33
	165	5825	12.21	11.73	14.99	31.53
802.11an HT40 (270Mbps)	159	5795	12.43	13.71	16.13	40.99

Modulation Standard: 802.11b (11Mbps), Ant R
Channel: 01



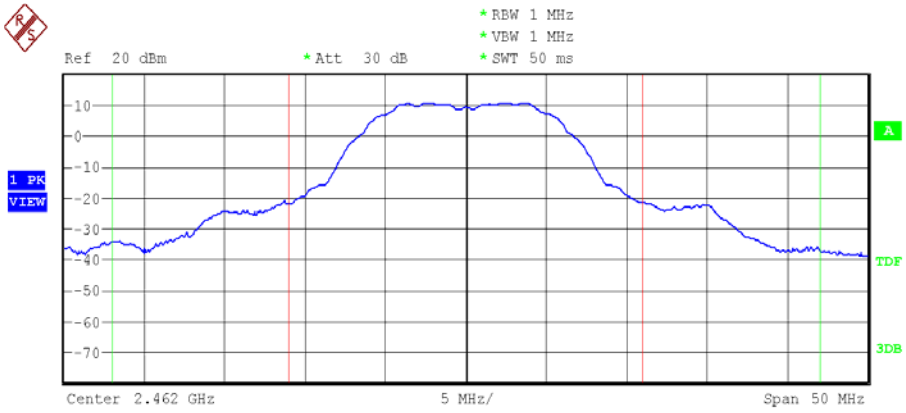
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	18.92 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.72 dB
Spacing	16.5 MHz	Upper	-32.33 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant R
Channel: 06



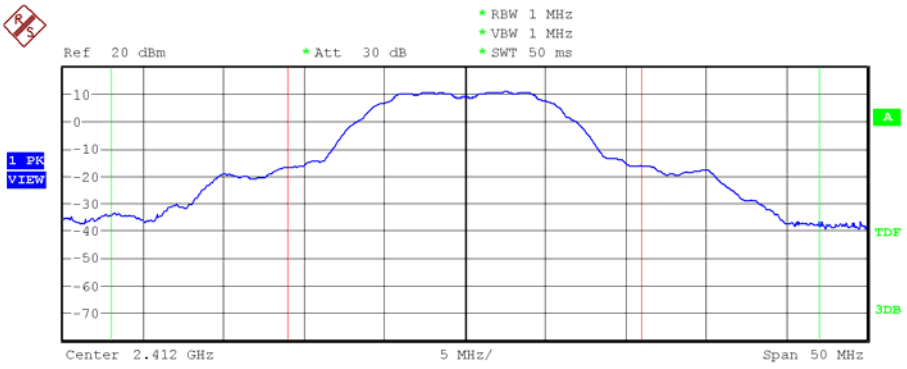
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	19.11 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-35.82 dB
Spacing	16.5 MHz	Upper	-34.06 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant R
Channel: 11



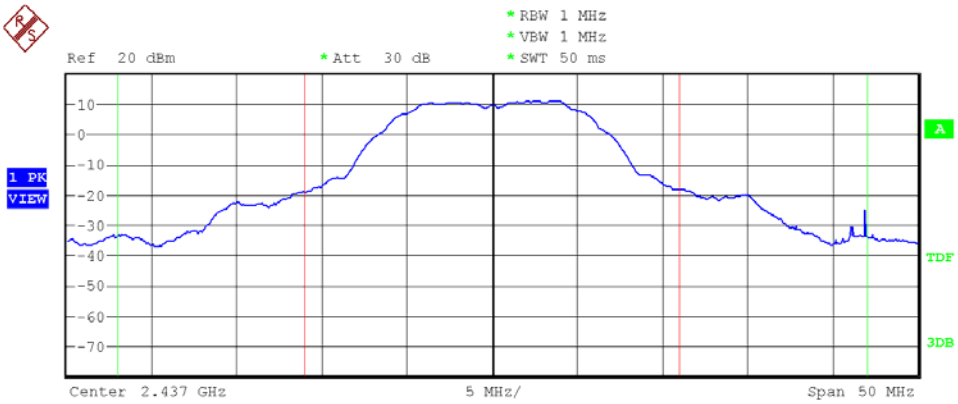
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	19.05 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-36.64 dB
Spacing	16.5 MHz	Upper	-35.72 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant L
Channel: 01



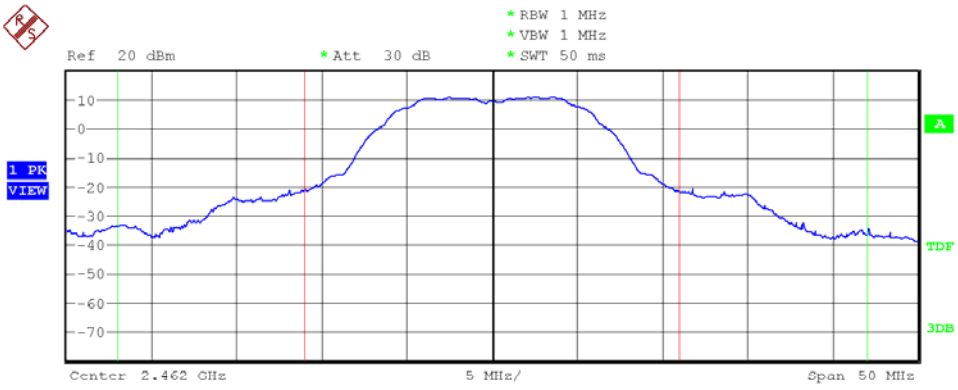
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	19.17 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-32.50 dB
Spacing	16.5 MHz	Upper	-31.17 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant L
Channel: 06



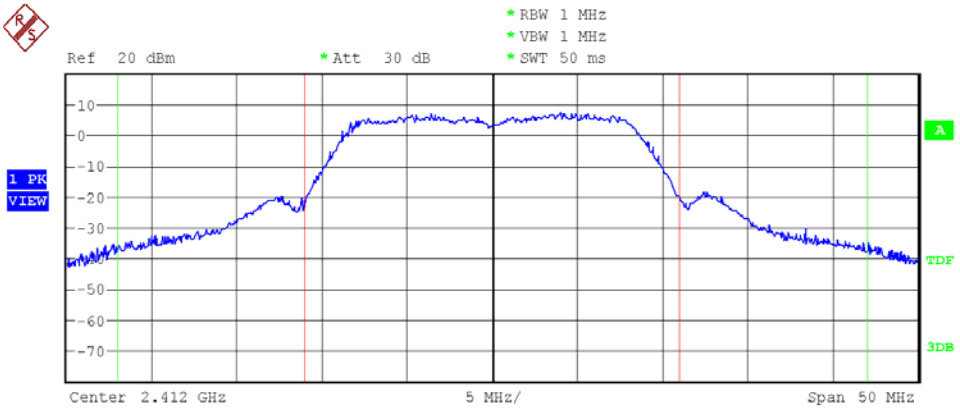
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	19.34 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-35.17 dB
Spacing	16.5 MHz	Upper	-33.47 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11b (11Mbps), Ant L
Channel: 11



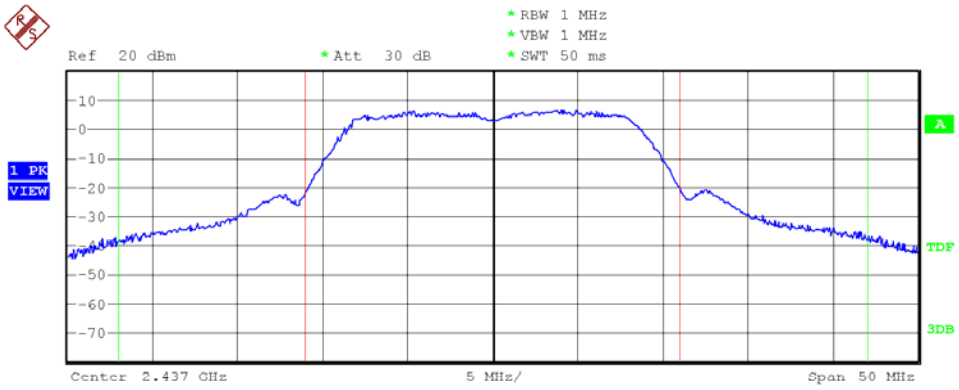
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	19.40 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-36.66 dB
Spacing	16.5 MHz	Upper	-35.99 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant R
Channel: 01



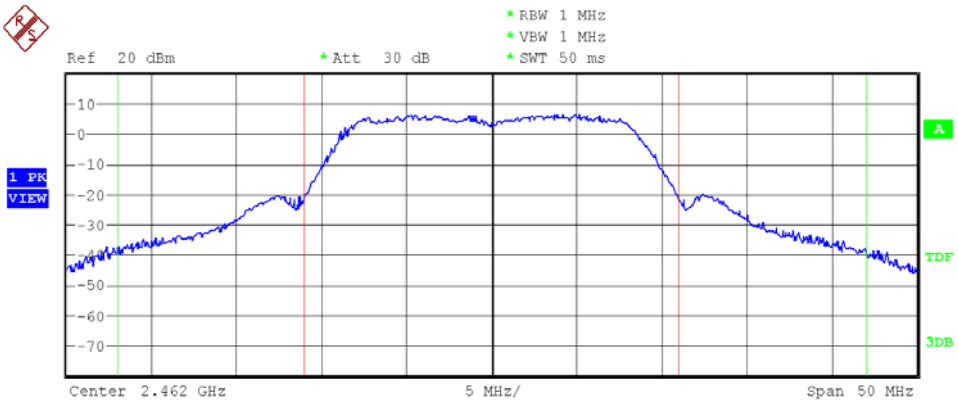
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.43 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.67 dB
Spacing	16.5 MHz	Upper	-32.53 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant R
Channel: 06



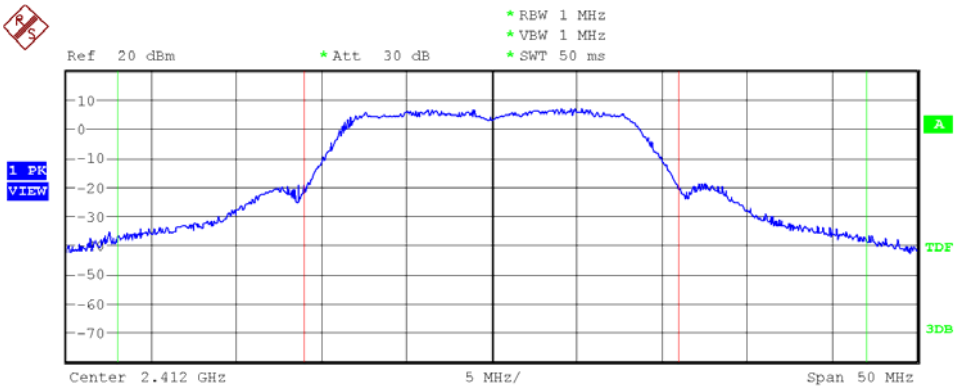
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.02 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-35.46 dB
Spacing	16.5 MHz	Upper	-33.98 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant R
Channel: 11



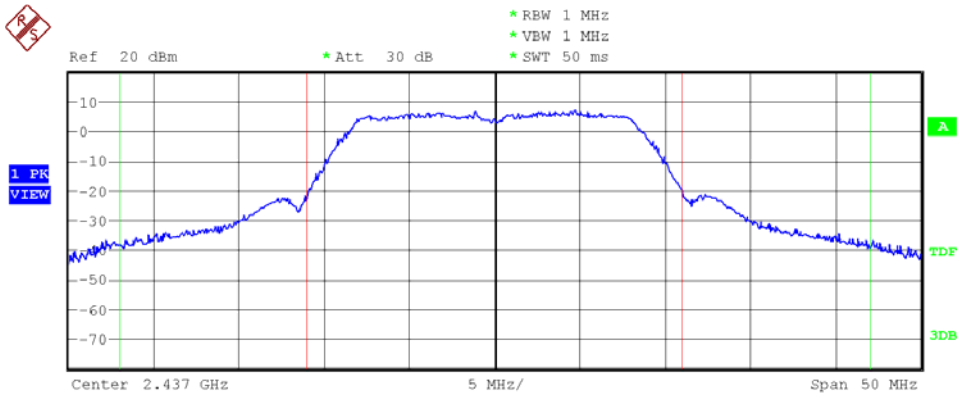
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.08 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.47 dB
Spacing	16.5 MHz	Upper	-33.29 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant L
Channel: 01



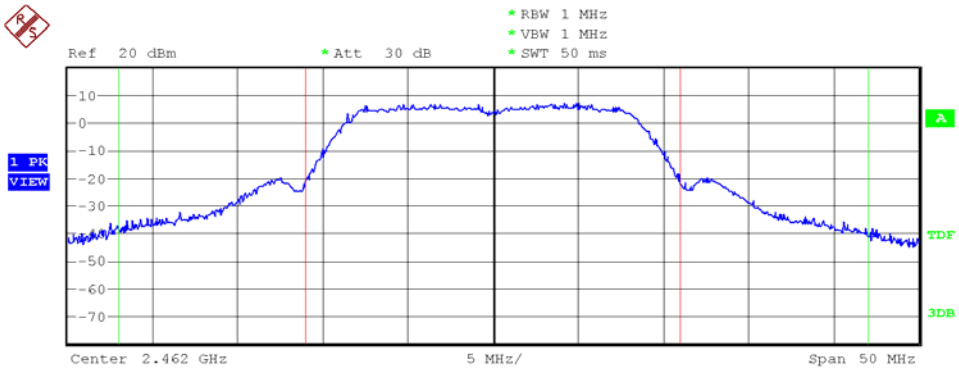
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.37 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.54 dB
Spacing	16.5 MHz	Upper	-32.61 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant L
Channel: 06



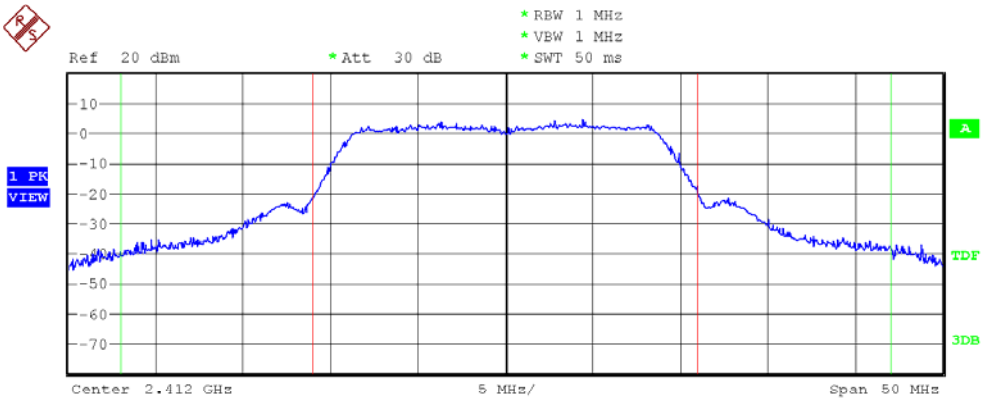
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.39 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-35.75 dB
Spacing	16.5 MHz	Upper	-34.62 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11g (54Mbps), Ant L
Channel: 11



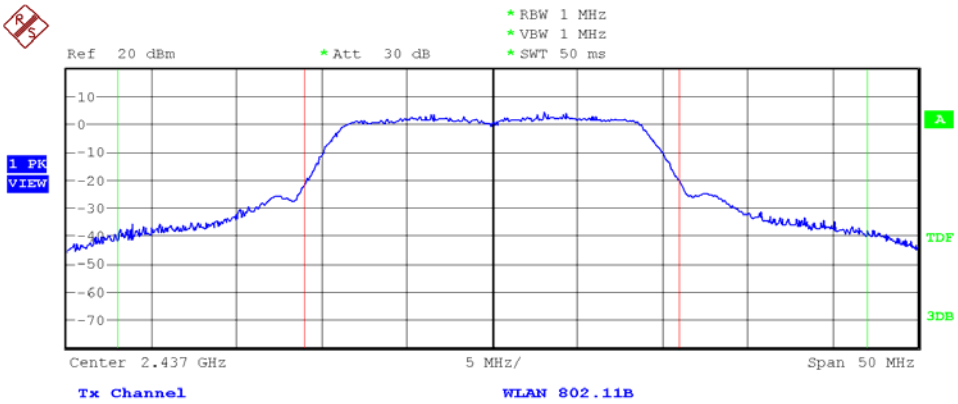
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	16.31 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.83 dB
Spacing	16.5 MHz	Upper	-33.73 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant R
Channel: 01



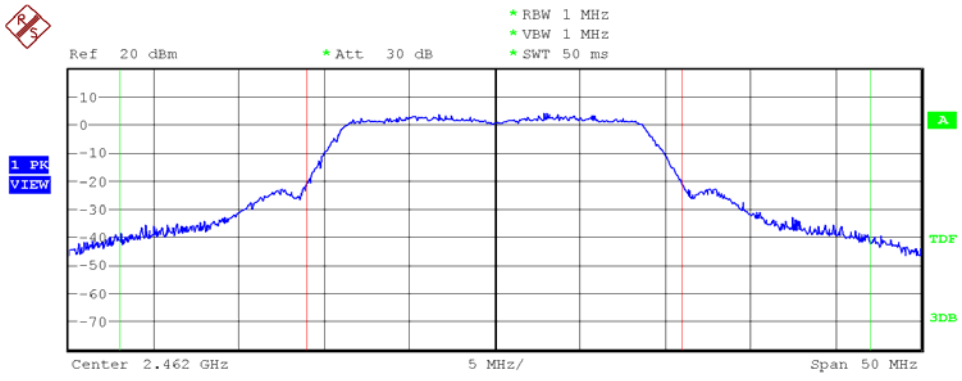
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.30 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.34 dB
Spacing	16.5 MHz	Upper	-32.10 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant R
Channel: 06



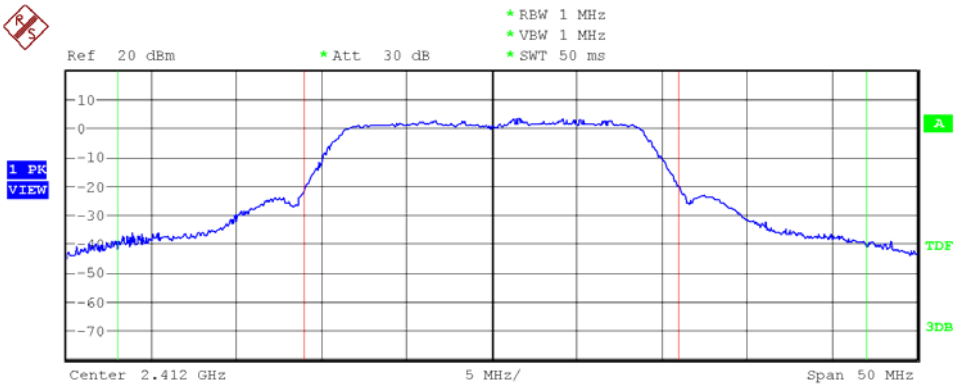
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.08 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.75 dB
Spacing	16.5 MHz	Upper	-33.31 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant R
Channel: 11



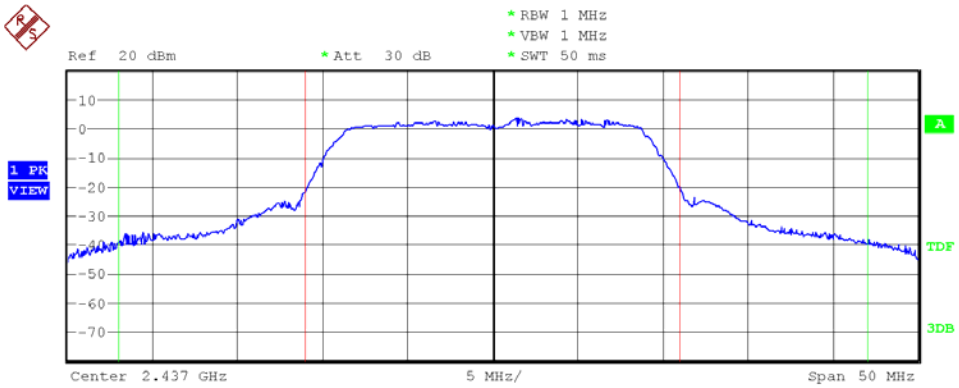
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.31 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.29 dB
Spacing	16.5 MHz	Upper	-32.97 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant L
Channel: 01



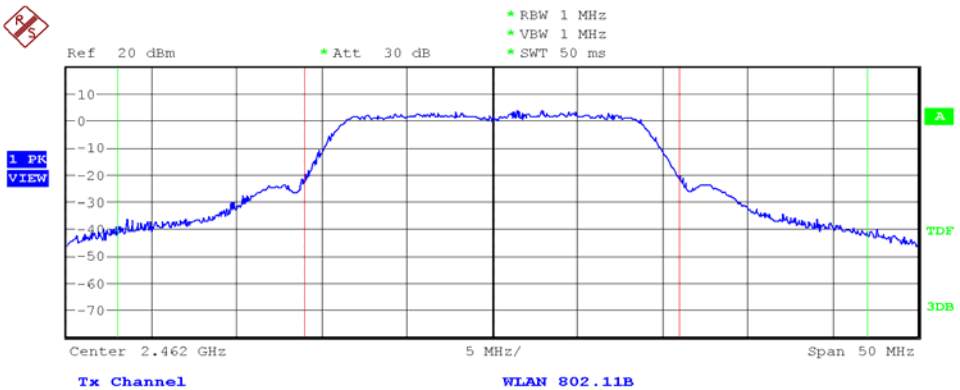
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	12.96 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.36 dB
Spacing	16.5 MHz	Upper	-32.40 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant L
Channel: 06



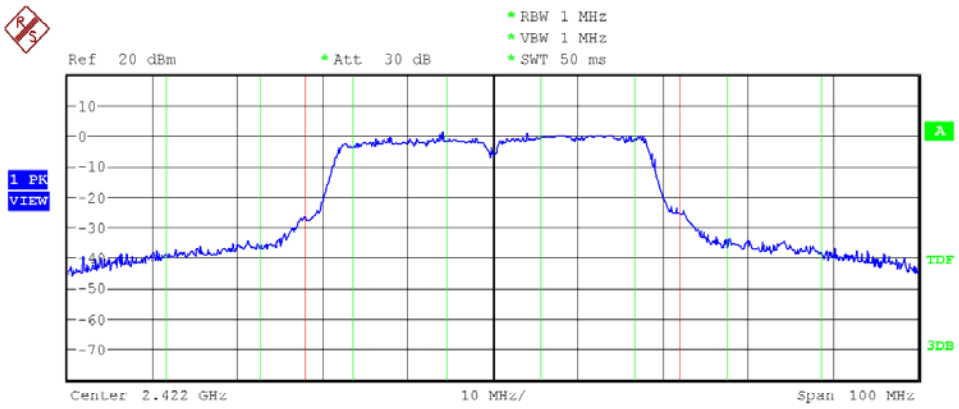
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.07 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.71 dB
Spacing	16.5 MHz	Upper	-33.52 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT20 (130Mbps), Ant L
Channel: 11



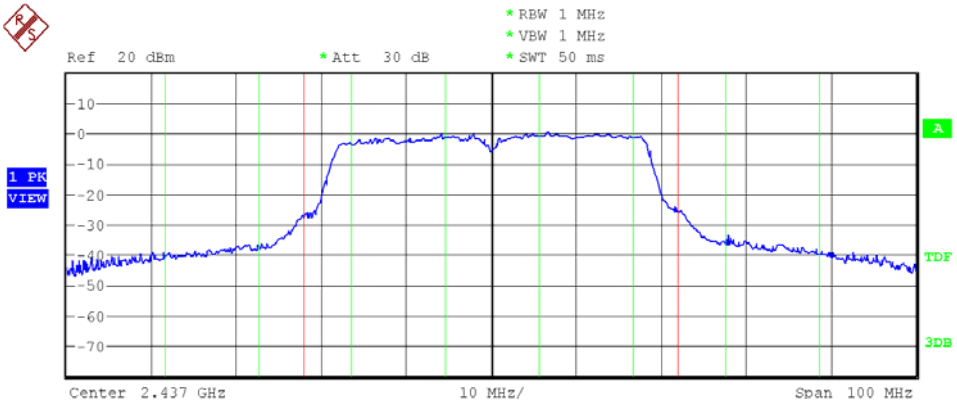
Tx Channel		**WLAN 802.11B**	
Bandwidth	22 MHz	Power	13.14 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-33.45 dB
Spacing	16.5 MHz	Upper	-33.17 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-----
Spacing	27.5 MHz	Upper	-----

Modulation Standard: 802.11n HT40 (270Mbps), Ant R
Channel: 03



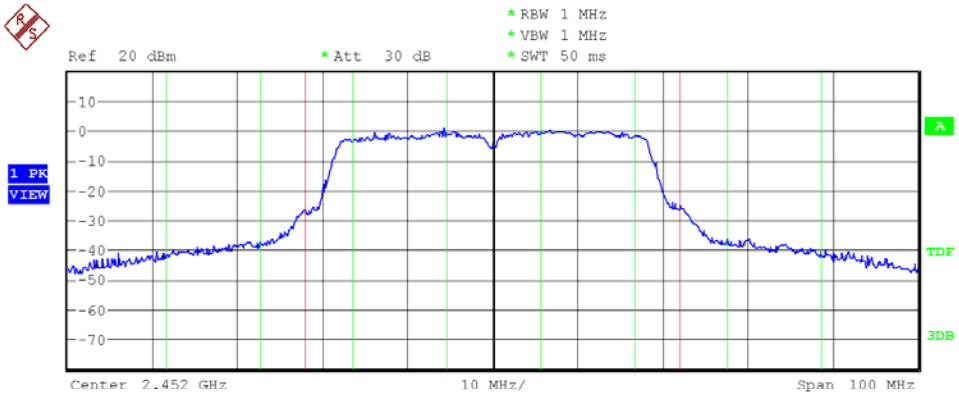
Tx Channel		WLAN 802.11B	
Bandwidth	44 MHz	Power	13.23 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.37 dB
Spacing	16.5 MHz	Upper	-3.62 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.63 dB
Spacing	27.5 MHz	Upper	-12.08 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant R
Channel: 06



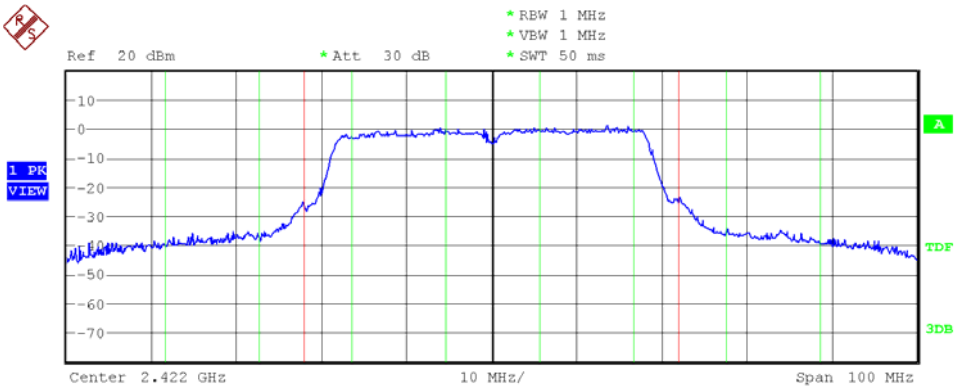
Tx Channel		WLAN 802.11B	
Bandwidth	44 MHz	Power	13.00 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.39 dB
Spacing	16.5 MHz	Upper	-3.77 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.66 dB
Spacing	27.5 MHz	Upper	-12.11 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant R
Channel: 09



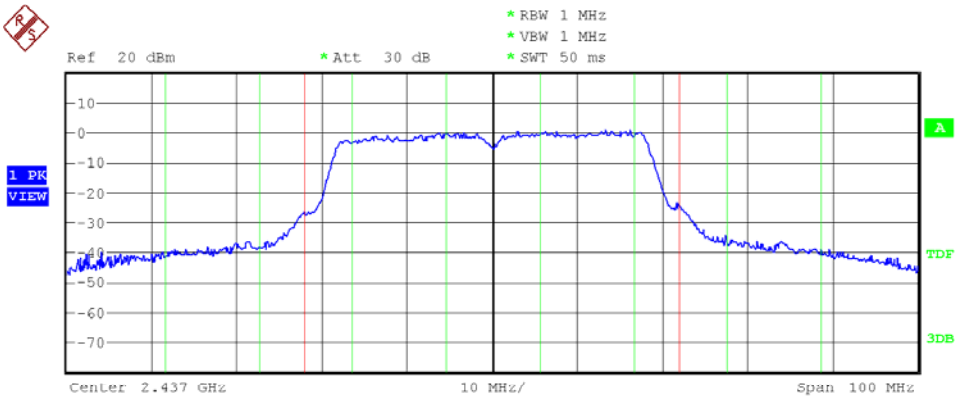
Tx Channel		WLAN 802.11B	
Bandwidth	44 MHz	Power	13.02 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.17 dB
Spacing	16.5 MHz	Upper	-3.93 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.48 dB
Spacing	27.5 MHz	Upper	-12.85 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant L
Channel: 03



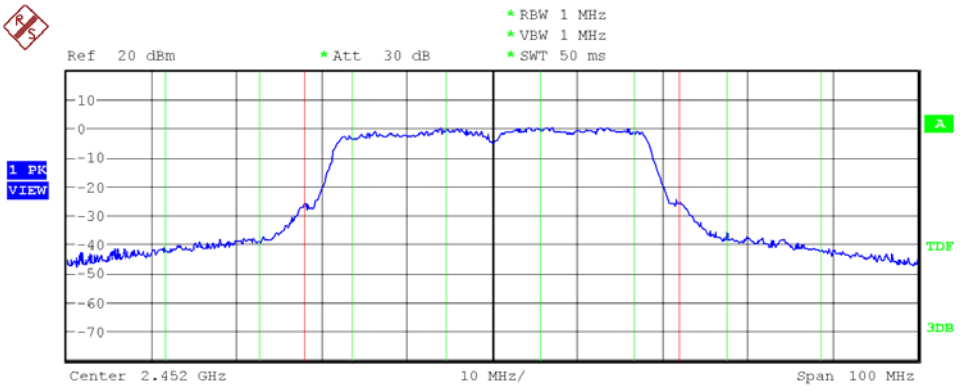
Tx Channel		WLAN 802.11B	
Bandwidth	44 MHz	Power	13.38 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.24 dB
Spacing	16.5 MHz	Upper	-3.85 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.20 dB
Spacing	27.5 MHz	Upper	-11.88 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant L
Channel: 06



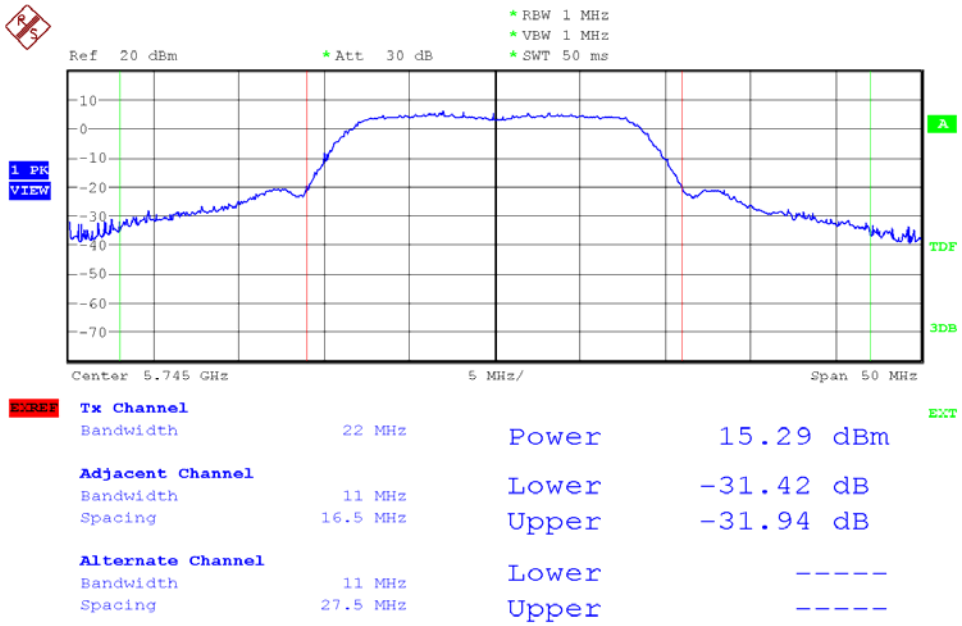
Tx Channel		WLAN 802.11B	
Bandwidth	44 MHz	Power	13.28 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.39 dB
Spacing	16.5 MHz	Upper	-3.74 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.59 dB
Spacing	27.5 MHz	Upper	-11.92 dB

Modulation Standard: 802.11n HT40 (270Mbps), Ant L
Channel: 09



Tx Channel		WLAN 802.11B	
Bandwidth	44 MHz	Power	13.12 dBm
Adjacent Channel			
Bandwidth	22 MHz	Lower	-5.25 dB
Spacing	16.5 MHz	Upper	-3.98 dB
Alternate Channel			
Bandwidth	22 MHz	Lower	-14.48 dB
Spacing	27.5 MHz	Upper	-12.54 dB

Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 149



Modulation Standard: 802.11a (6Mbps), Ant R
Channel: 157