5.6. BAND EDGES MEASUREMENT

5.6.1 5.7.1 TEST INSTRUMENTS

Device	Model No.	Serial No.	Last Cal.	Next Cal
ROHDE & SCHWARZ EMI Test Receiver	ESIB 40	100201	01/23/05	01/23/06

5.6.2 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set RBW and VBW of spectrum analyzer to 1MHz, 3Mhz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

5.6.3 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, and highest channel frequency individually.

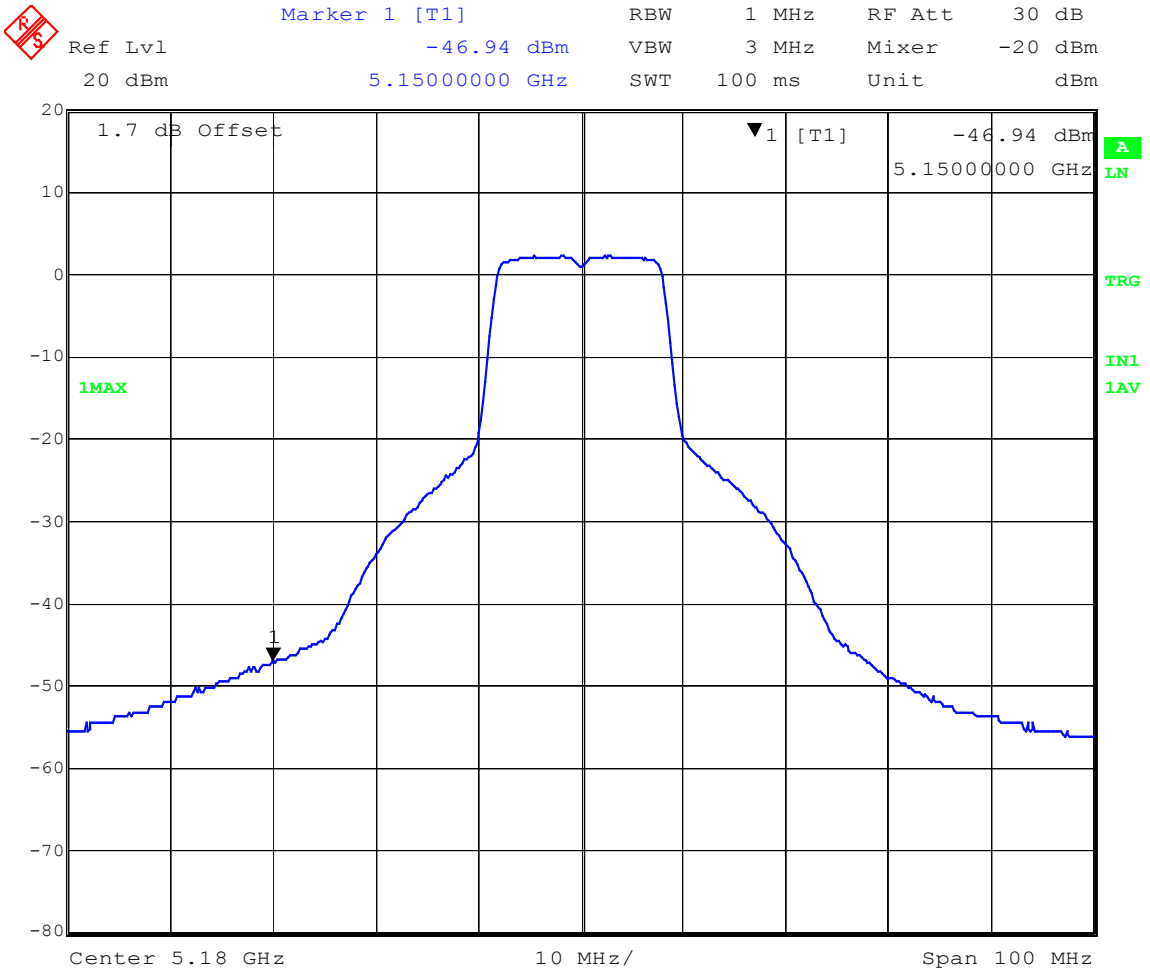
5.6.4 TEST RESULTS

Pursuant to 47CFR15.407.b.2 devices operating in the 5.15-5.35GHz band shall have an EIRP outside of the 5.15-5.35GHz band below -27dBm/MHz. Referring to the spectrum analyzer plots that follow for Channel 36,64 and Turbo Channel 42, 58 out of the 5.15-5.35GHz band emissions were below -46dBm/MHz in all cases when the device was operating at full power. Using this guidance and the prior measured emission values the following are the maximum EIRP band edge emissions, for all antenna types:

For 5dBi Omni, Out of band EIRP= -46dBm/MHz + 5dBi or an EIRP of -41dBm/MHz

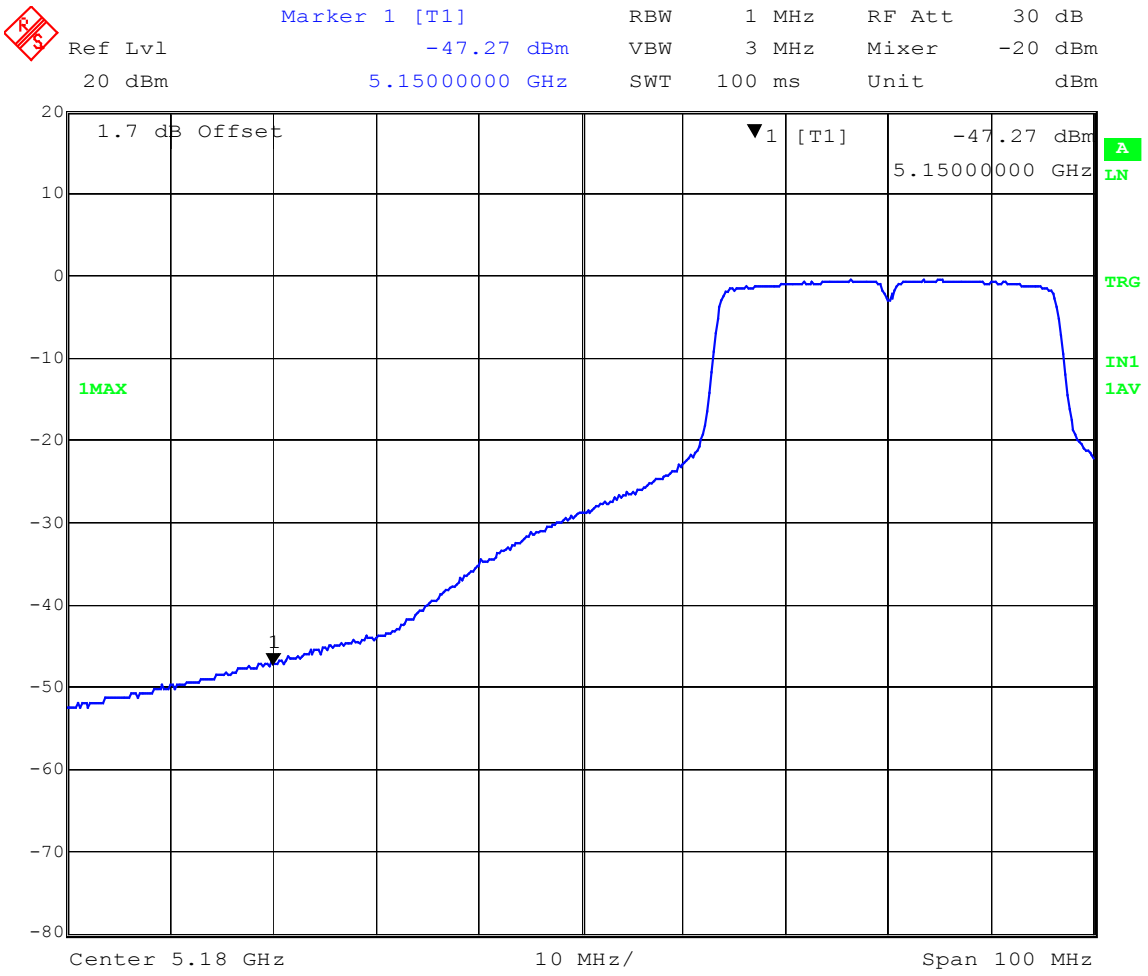
The spectrum plots are attached on the following pages. The marker indicates the highest level

Lower band edge
Channel 36
Data rate: 6Mbps



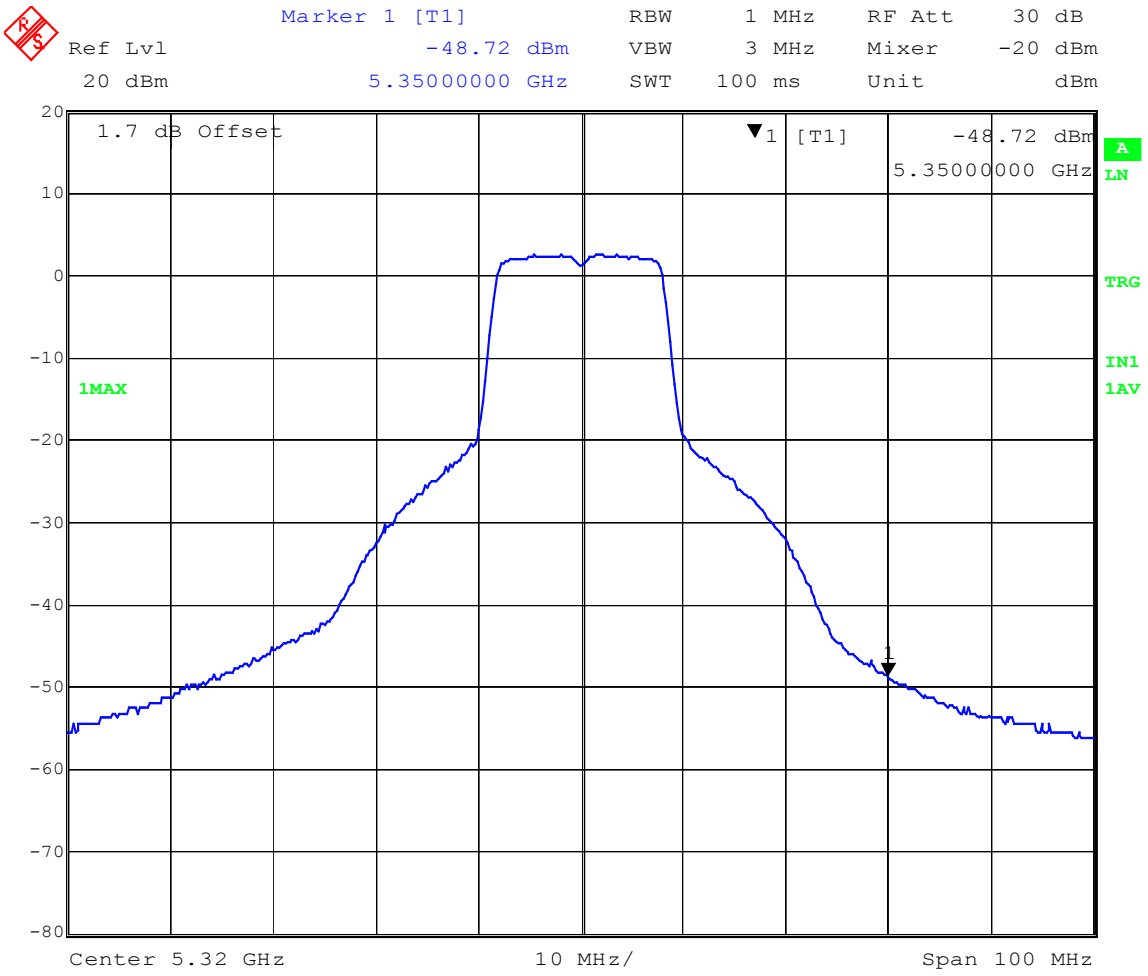
Title: Ch36 rate 6 -27dBm/MHz band edge
Date: 12.MAY.2005 10:23:55

Lower band edge
Channel 42
Turbo mode



Title: Ch42 rate turbo -27dBm/MHz band edge
Date: 12.MAY.2005 10:30:03

Upper band edge
Channel 64
Data rate: 6Mbps



Title: Ch64 rate 6 -27dBm/MHz band edge
Date: 12.MAY.2005 10:25:29

Upper band edge
Channel 58
Turbo mode

Title: Ch58 rate turbo -27dBm/MHz band edge
Date: 12.MAY.2005 10:28:19

5.7. RESTRICTED BANDS OF OPERATION

5.7.1 LIMITS OF RESTRICTED BANDS OF OPEARATION

54dBuV/m in the following restricted bands of operations: 4.5-5.15GHz, 5.35-5.46GHz.

5.7.2 TEST INSTRUMENTS

Device	Model No.	Serial No.	Last Cal.	Next Cal
ROHDE & SCHWARZ EMI Test Receiver	ESIB 40	100201	01/23/05	01/23/06

5.7.3 TEST PROCEDURES

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter Semi-Anechoic Chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna is a Horn antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would

be re-tested one by one using the quasi-peak method or average method as specified and then reported in Data sheet peak mode and QP mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz , 1MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 KHz for Average detection (AV) at frequency above 1GHz.

5.7.4 DEVIATION FROM TEST STANDARD

No deviation

5.7.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle channel frequency with external antenna individually.

5.7.6 TEST RESULTS

For signals in the restricted bands below and above the 5.15 to 5.35GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal made on the Semi-Anechoic Chamber to calculate the field strength of the unintentional signals.

The emission level tables and spectrum plots (Peak RBW=1MHz, VBW=1MHz; Average RBW=1MHz, VBW=1KHz) are attached on the following pages.

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Channel 36 (6Mbps), External Dual-Band Vertically Polarized Omni-Directional Antenna Gain: 5 dBi at 5.15-5.35 GHz Gain: 4.5dBi at 5.725 – 5.8 GHz	**FREQUENCY RANGE**	4500-5150MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak (P) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 40%RH	**TESTED BY**: Sandra Sohn	

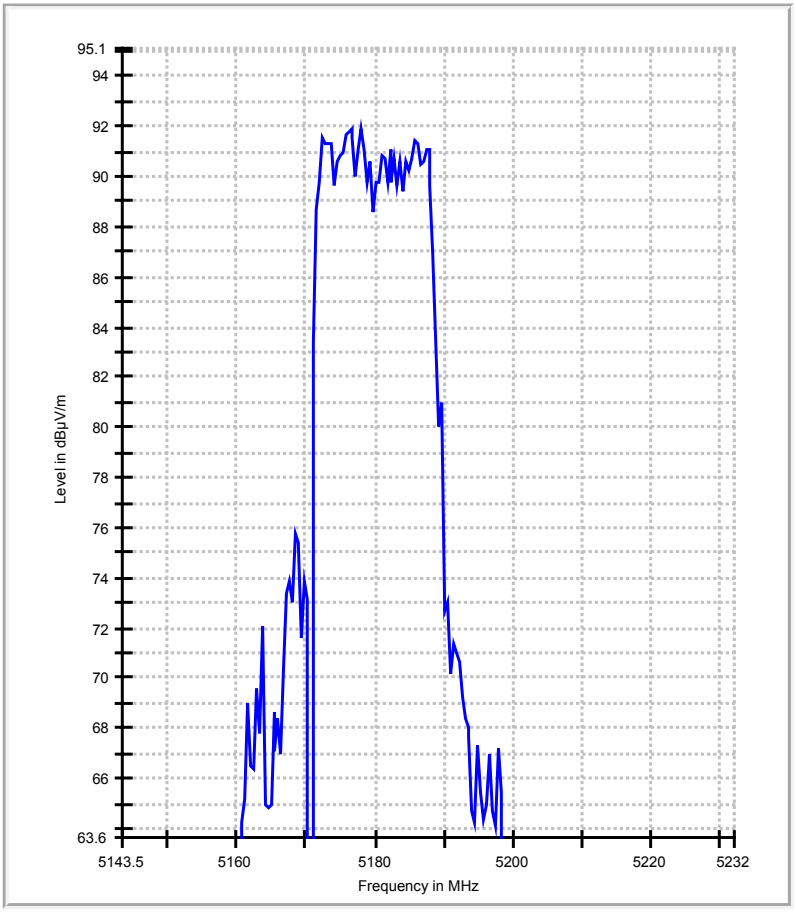
ANTENNA POLARITY & TEST DISTANCE: Vertical AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1_R	5148 (P)	48.4 (P)	74 (P)	-25.6	1	7	45.8 (P)	2.6
1_R	5148 (AV)	33.5 (AV)	54 (AV)	-20.5	1	7	30.9 (AV)	2.6

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dBm)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.205
6. $_R$ is restricted band.

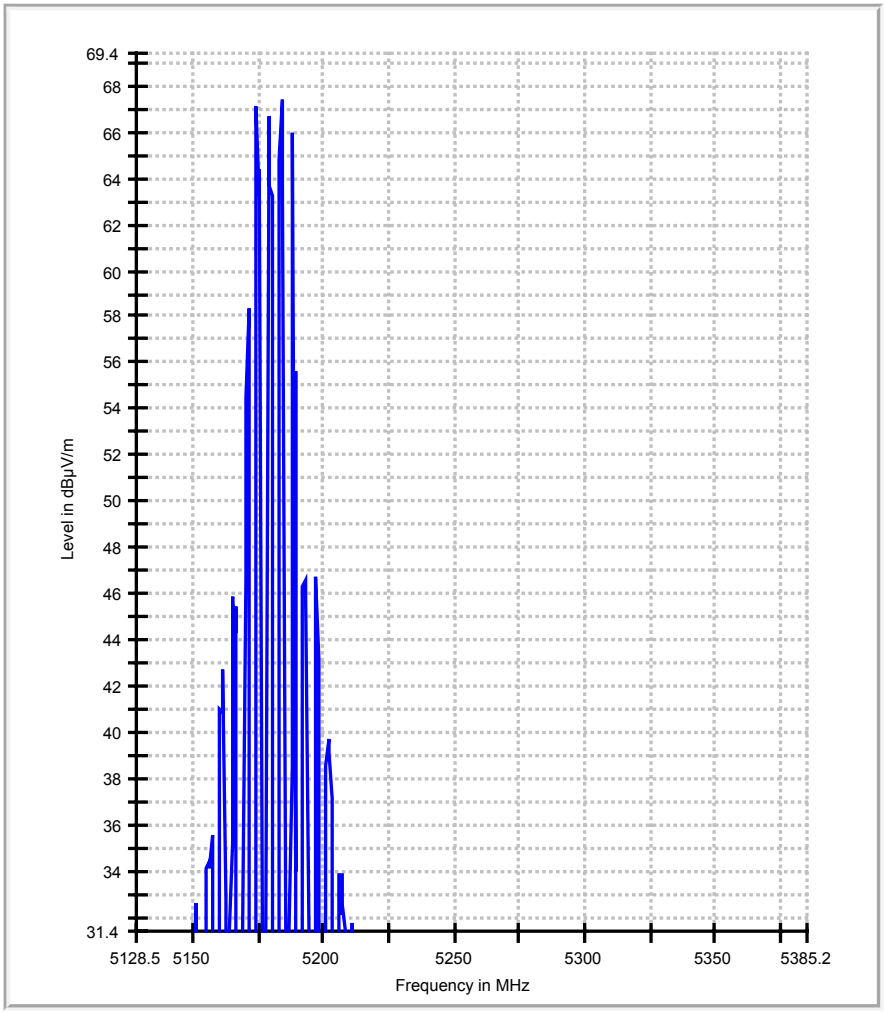
Channel 36
Data rate: 6 Mbps
MaxPeak

Resolution Bandwidth:	1MHz
Video Bandwidth:	1 MHz



Channel 36
Data rate: 6Mbps
Average

Resolution Bandwidth: 1MHz
Video Bandwidth: 1KHz



EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Channel 48 (6Mbps) External Dual-Band Vertically Polarized Omni-Directional Antenna Gain: 5 dBi at 5.15-5.35 GHz Gain: 4.5dBi at 5.725 – 5.8 GHz	**FREQUENCY RANGE**	4500-5150MHz 5350-5460MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak (P) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 40%RH	**TESTED BY**: Sandra Sohn	

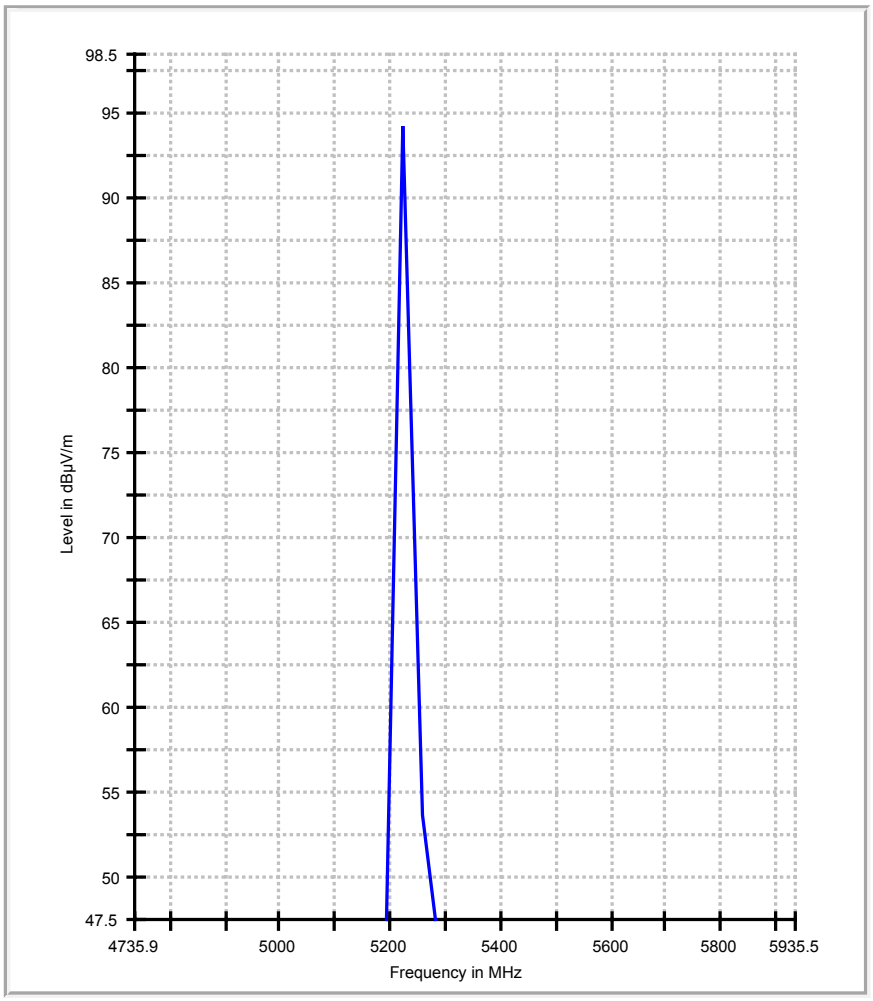
ANTENNA POLARITY & TEST DISTANCE: Vertical AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1_R	5054 (P)	46.2 (P)	74 (P)	-27.8	1	9	43.6 (P)	2.6
2_R	5360 (P)	46.0 (P)	74(P)	--28.0	1	11	42.9 (P)	3.1
2_R	5360 (AV)	29.0 (AV)	54 (A)	-25.0	1	11	25.9 (AV)	3.1

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dBm)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.205
6. $_R$ is restricted band.

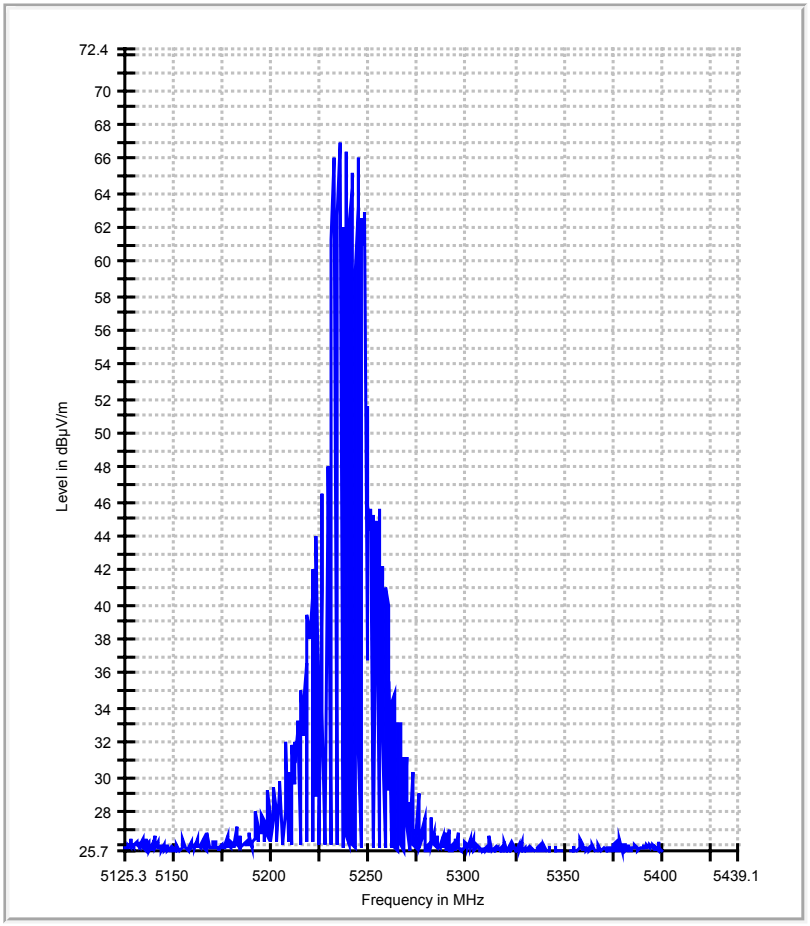
Channel 48
Data rate: 6Mbps
Maxpeak

Resolution Bandwidth: 1MHz
Video Bandwidth: 1 MHz



Channel 48
Data rate: 6Mbps
Average

Resolution Bandwidth:	1MHz
Video Bandwidth:	1KHz



EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Channel 52 (6Mbps) External Dual-Band Vertically Polarized Omni-Directional Antenna Gain: 5 dBi at 5.15-5.35 GHz Gain: 4.5dBi at 5.725 – 5.8 GHz	**FREQUENCY RANGE**	4500-5150MHz 5350-5460MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak (P) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 40%RH	**TESTED BY**: Sandra Sohn	

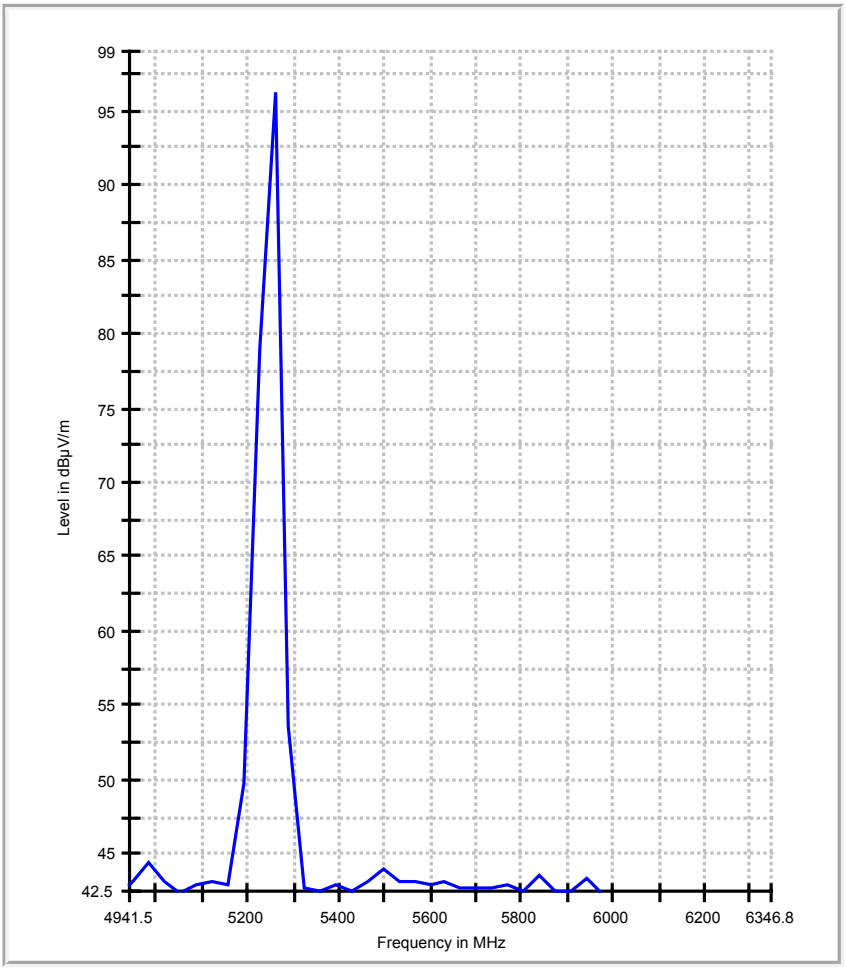
ANTENNA POLARITY & TEST DISTANCE: Vertical AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1_R	4986 (P)	47.0 (P)	74 (P)	-27.0	1	8	44.4 (P)	2.6
2_R	5395 (P)	46.0 (P)	74(P)	-28.0	1	7	42.9 (P)	3.1
2_R	5395 (AV)	28.6 (AV)	54 (A)	-25.4	1	7	25.5 (AV)	3.1

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dBm)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.205
6. $_R$ is restricted band.

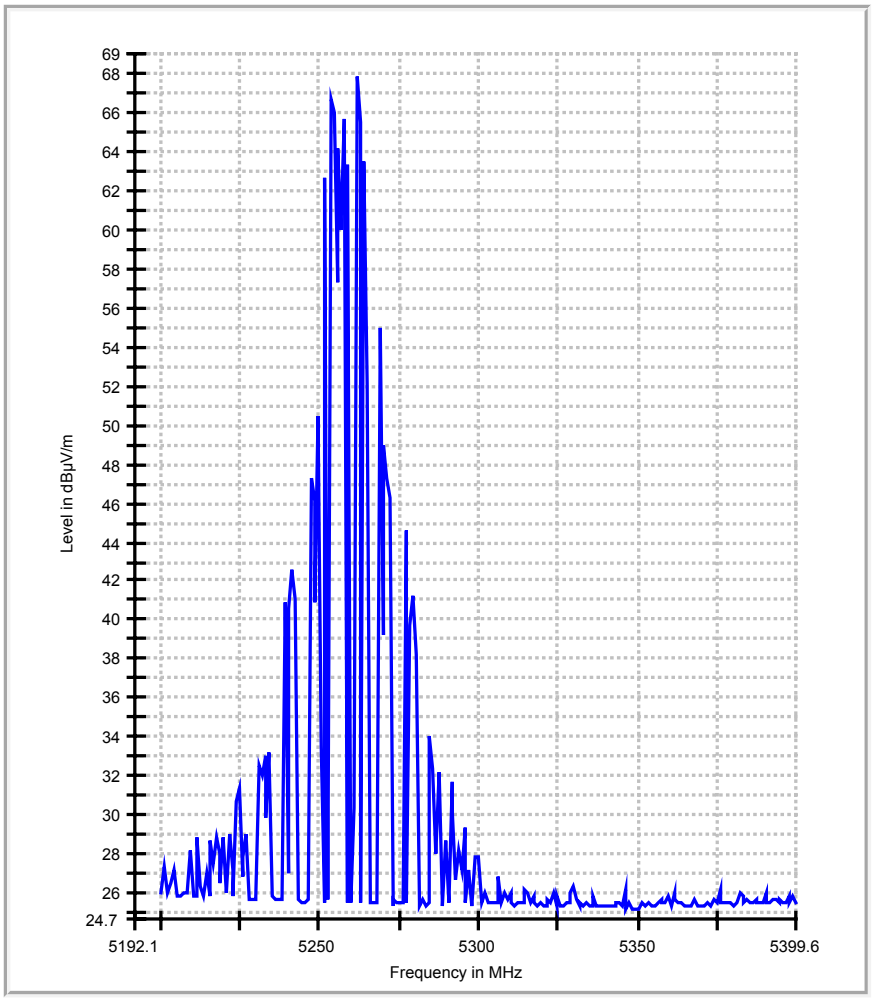
Channel 52
Data rate: 6Mbps
Maxpeak

Resolution Bandwidth: 1MHz
Video Bandwidth: 1 MHz



Channel 52
Data rate: 6 Mbps
Average

Resolution Bandwidth:	1MHz
Video Bandwidth:	1KHz



EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Channel 64 (6Mbps) External Dual-Band Vertically Polarized Omni-Directional Antenna Gain: 5 dBi at 5.15-5.35 GHz Gain: 4.5dBi at 5.725 – 5.8 GHz	**FREQUENCY RANGE**	4500-5150MHz 5350-5460MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak (P) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 40%RH	**TESTED BY**: Sandra Sohn	

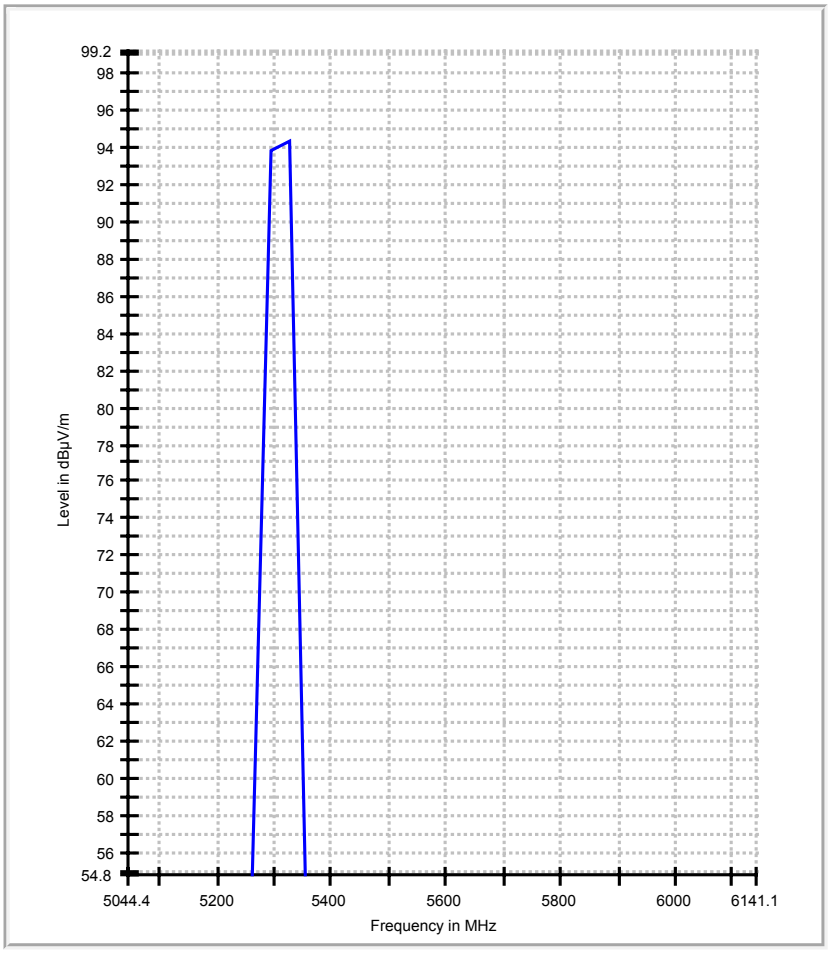
ANTENNA POLARITY & TEST DISTANCE: Vertical AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1_R	5020 (P)	45.9 (P)	74 (P)	-28.1	1	8	43.3 (P)	2.6
2_R	5360 (P)	46.7 (P)	74(P)	-27.2	1	10	43.6 (P)	3.1
2_R	5359 (AV)	30.6 (AV)	54 (A)	-23.3	1	10	27.5 (AV)	3.1

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dBm)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.205
6. $_R$ is restricted band.

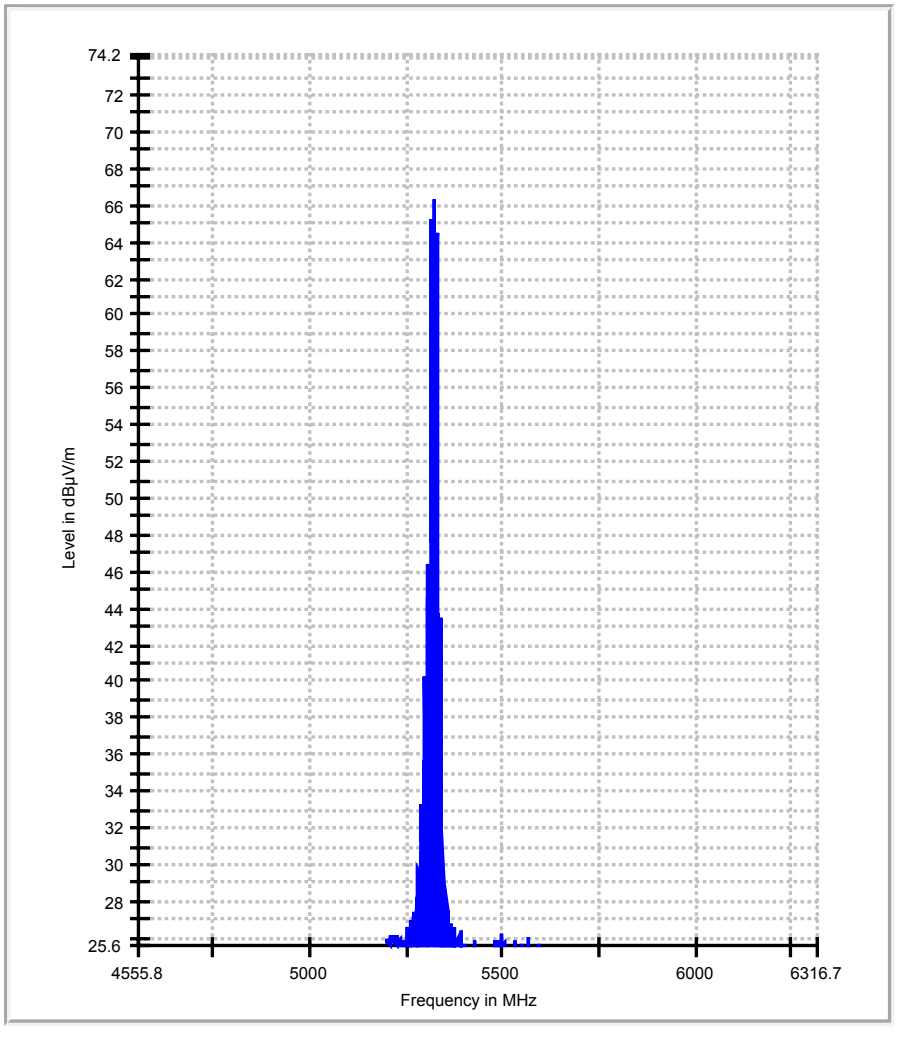
Channel 64
Data rate: 6Mbps
Maxpeak

Resolution Bandwidth: 1MHz
Video Bandwidth: 1 MHz



Channel 64
Data rate: 6 Mbps
Average

Resolution Bandwidth: 1MHz
Video Bandwidth: 1KHz



EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Channel 149 (6Mbps) External Dual-Band Vertically Polarized Omni-Directional Antenna Gain: 5 dBi at 5.15-5.35 GHz Gain: 4.5dBi at 5.725 – 5.8 GHz	**FREQUENCY RANGE**	4500-5150MHz 5350-5460MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak (P) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 40%RH	**TESTED BY**: Sandra Sohn	

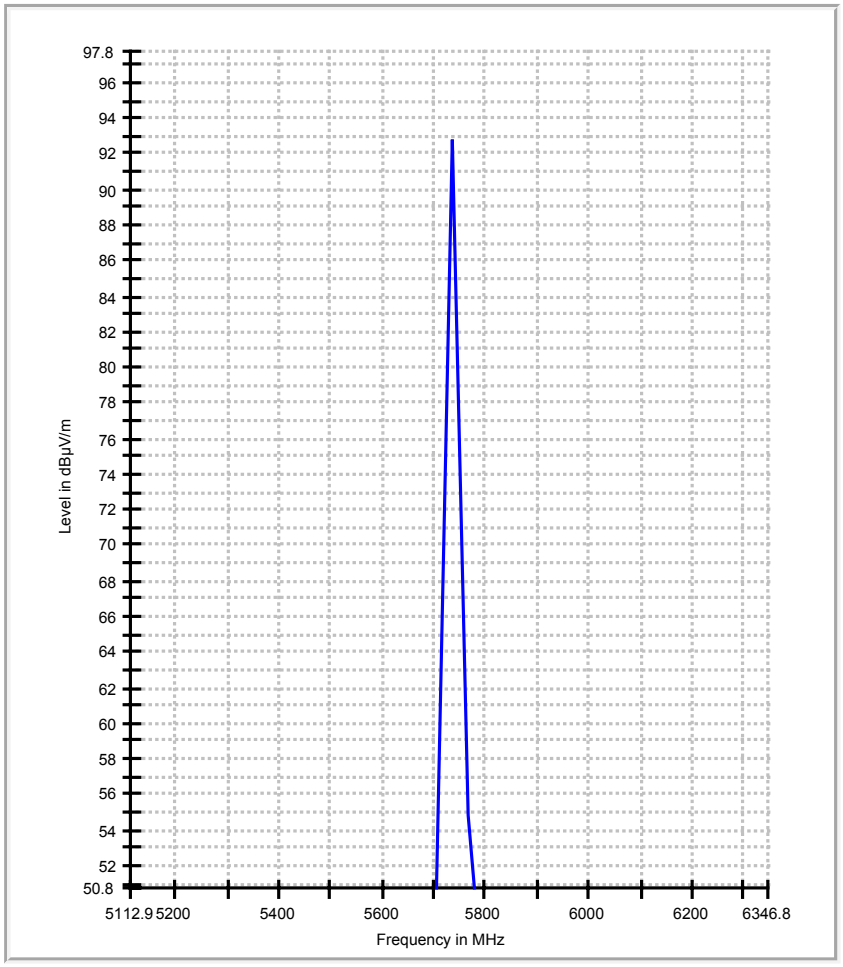
ANTENNA POLARITY & TEST DISTANCE: Vertical AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1_R	4543 (P)	45.9 (P)	74 (P)	-28.1	1	9	43.3 (P)	2.6
2_R	5429 (P)	45.9 (P)	74(P)	-28.0	1	10	42.8 (P)	3.1

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dBm)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.205
6. $_R$ is restricted band.

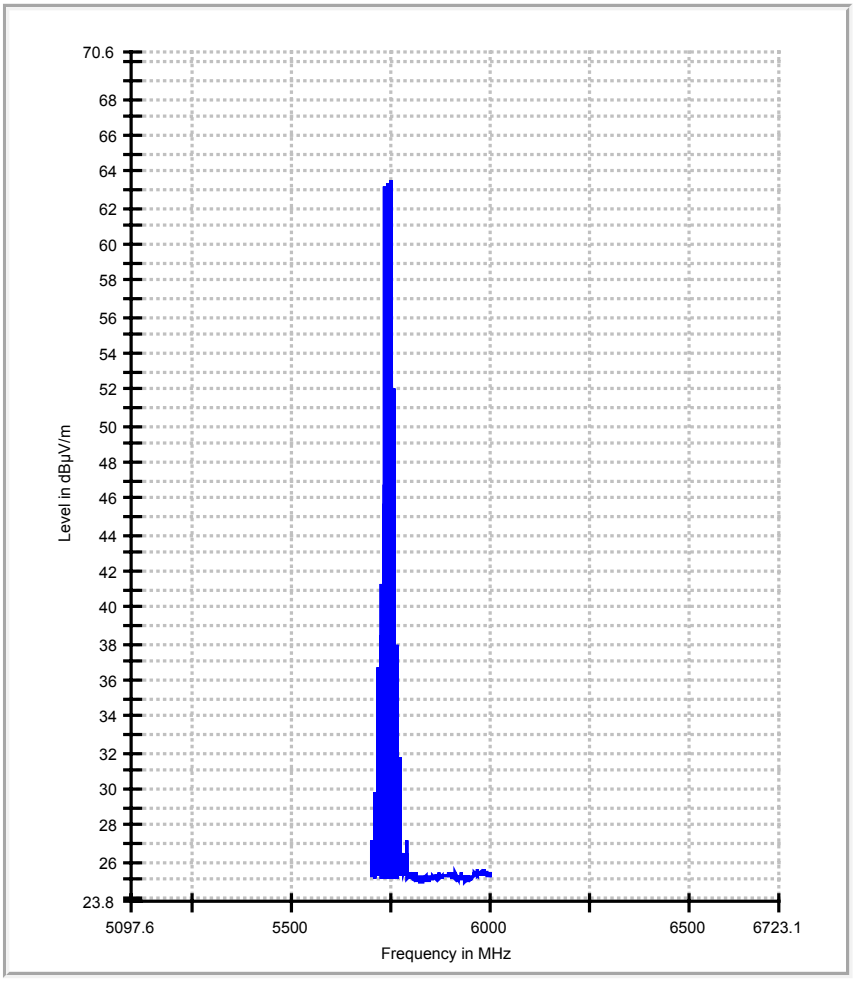
Channel 149
Data rate: 6Mbps
Maxpeak

Resolution Bandwidth:	1MHz
Video Bandwidth:	1 MHz



Channel 149
Data rate: 6Mbps
Average

Resolution Bandwidth: 1MHz
Video Bandwidth: 1 KHz



EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Channel 161 (6Mbps) External Dual-Band Vertically Polarized Omni-Directional Antenna Gain: 5 dBi at 5.15-5.35 GHz Gain: 4.5dBi at 5.725 – 5.8 GHz	**FREQUENCY RANGE**	4500-5150MHz 5350-5460MHz
INPUT POWER (SYSTEM)	120Vac, 60Hz	**DETECTOR FUNCTION**	Peak (P) Average (AV)
ENVIRONMENTAL CONDITIONS	25deg. C, 40%RH	**TESTED BY**: Sandra Sohn	

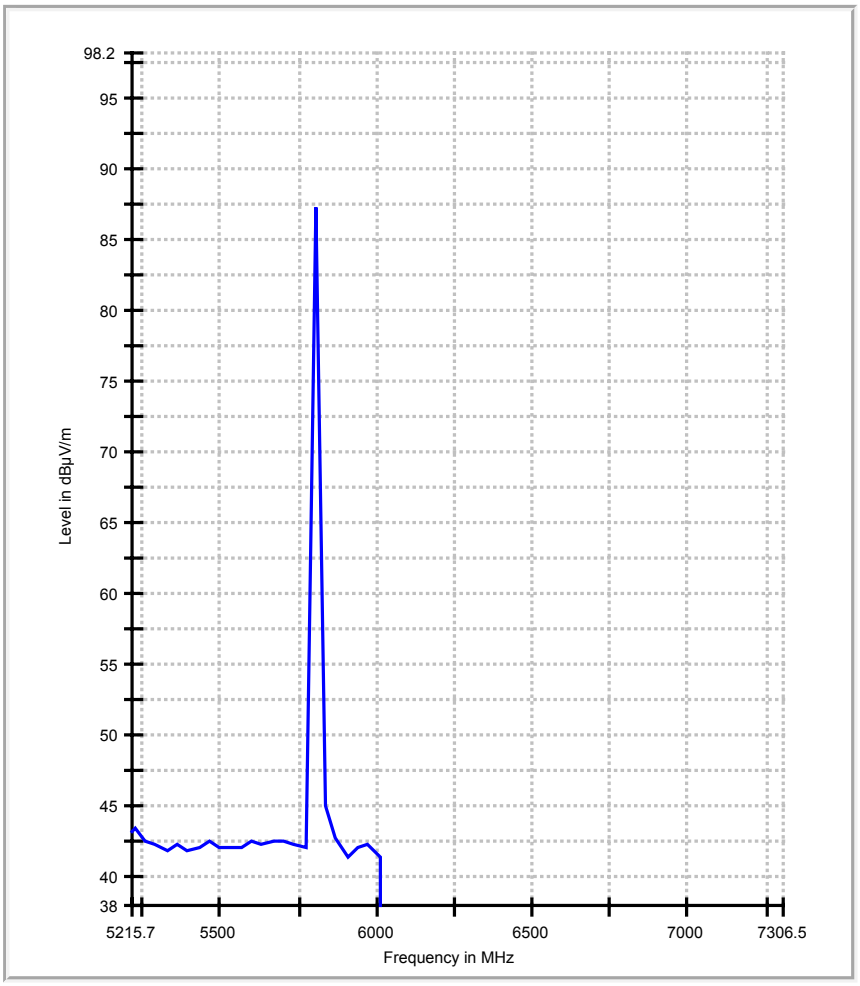
ANTENNA POLARITY & TEST DISTANCE: Vertical AT 3 M								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1_R	4577 (P)	46.6 (P)	74 (P)	-27.4	1	7	44.0 (P)	2.6
2_R	5360 (P)	45.45 (P)	74(P)	-28.6	1	9	42.3 (P)	3.1

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier (dBm)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. The limit value is defined as per 15.205
6 $_R$ is restricted band.

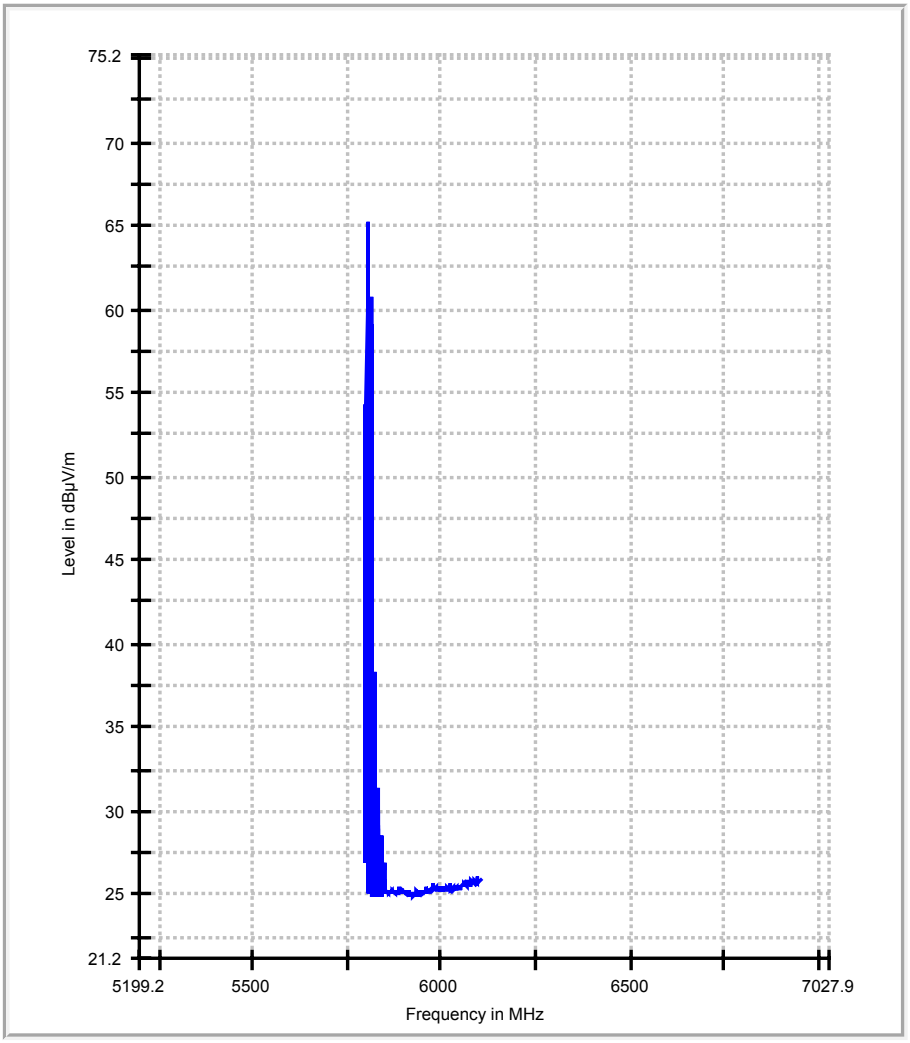
Channel 161
Data rate: 6Mbps
Maxpeak

Resolution Bandwidth: 1MHz
Video Bandwidth: 1 MHz



Channel 161
Data rate: 6Mbps
Average

Resolution Bandwidth: 1MHz
Video Bandwidth: 1 KHz



For FREQUENCY 5.725 ~ 5.850GHz

5.8. 6dB BANDWIDTH MEASUREMENT

5.8.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

5.8.2 TEST INSTRUMENTS

Device	Model No.	Serial No.	Last Cal.	Next Cal
HP EMI Receiver	HP8546A	3325A00120	03/05/05	03/05/06

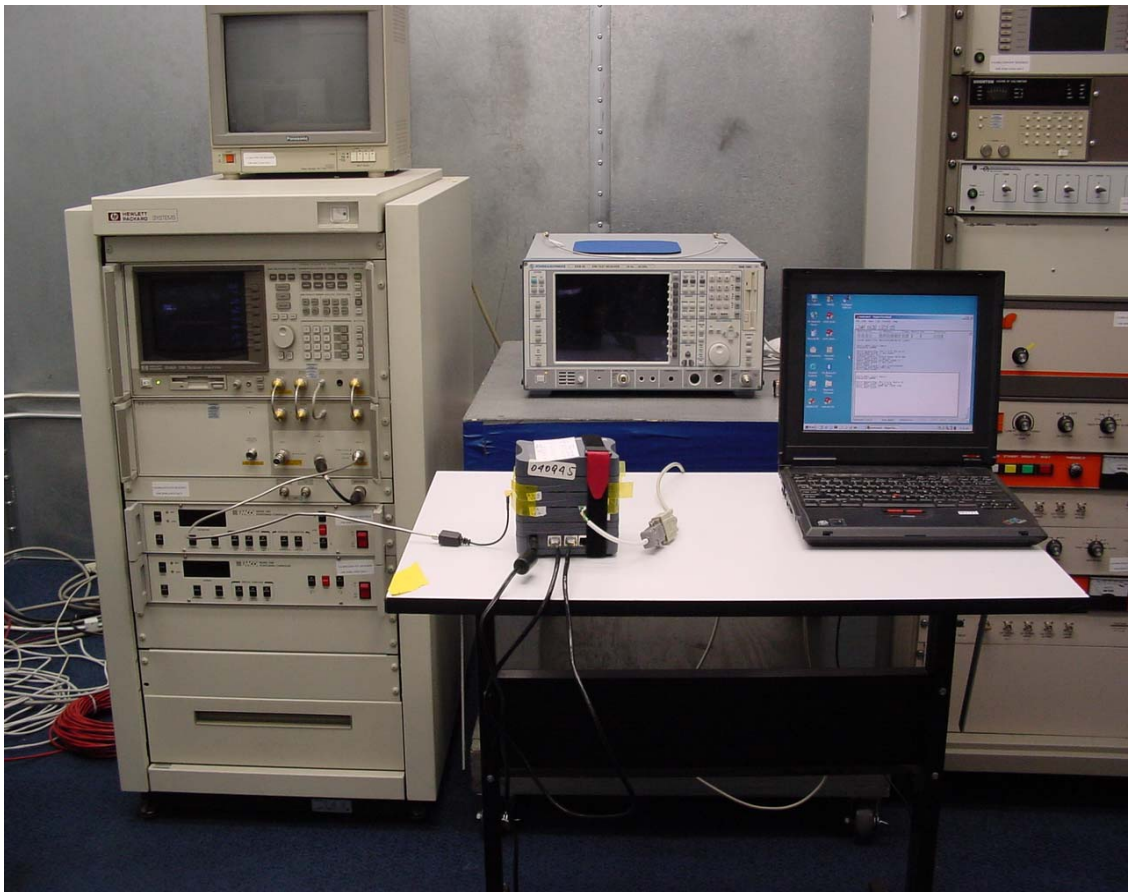
5.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

5.8.4 DEVIATION FROM TEST STANDARD

No deviation

5.8.5 TEST SETUP



5.8.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at high channel frequencies individually.

5.8.7 TEST RESULTS

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

Channel	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
157	5785	16.5	0.5	PASS

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae WM11Ge
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

Channel	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
152	5760	33.25	0.5	PASS

For FREQUENCY 5.725 ~ 5.850GHz

5.9. MAXIMUM PEAK OUTPUT POWER

5.9.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

5.9.2 INSTRUMENTS

Device	Model No.	Serial No.	Last Cal.	Next Cal
ROHDE & SCHWARZ EMI Test Receiver	ESIB 40	100201	01/23/05	01/23/06

5.9.3 TEST PROCEDURES

1. The transmitter output was connected to the spectrum analyzer.

2. Set span to encompass the entire emission bandwidth of the signal.

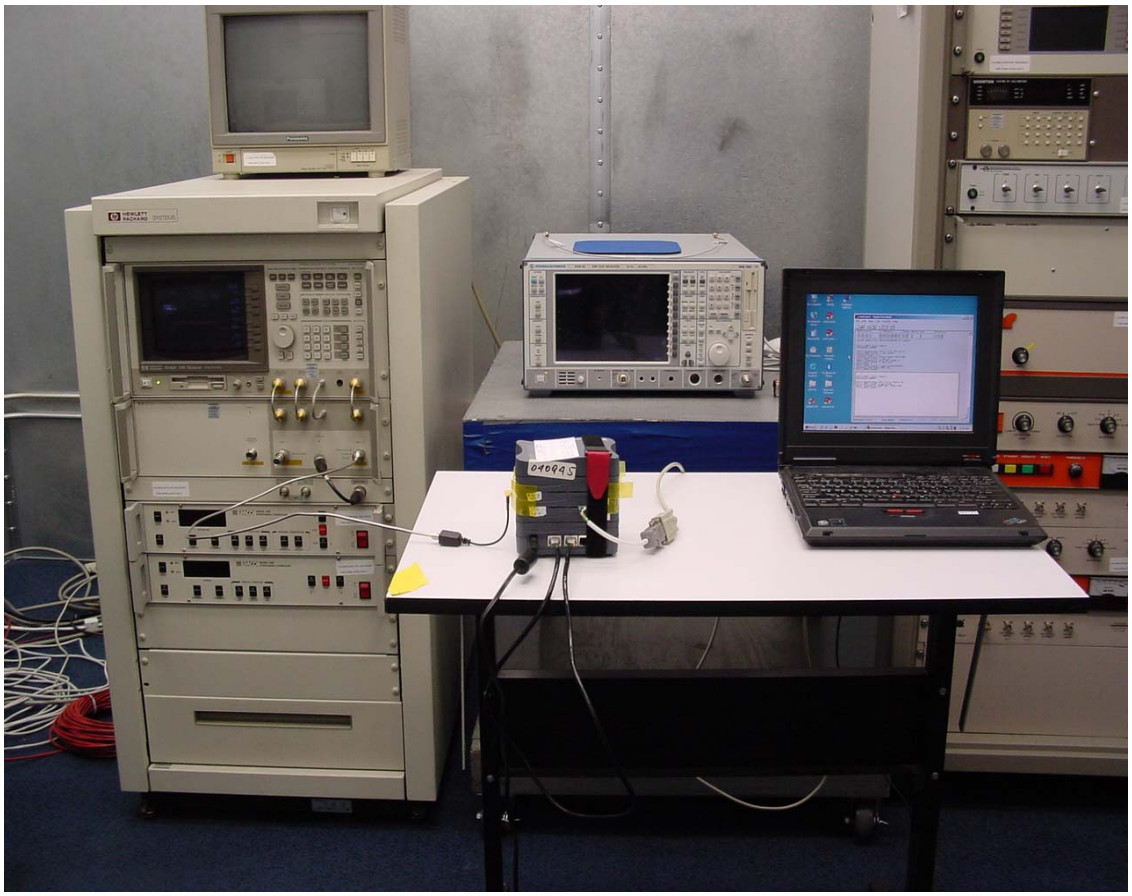
3. Set RBW to 1MHz, VBW to 3MHz.

4. Using the spectrum analyzer's channel power measurement function to measure the output power.

5.9.4 DEVIATION FROM TEST STANDARD

No deviation

5.9.5 TEST SETUP



5.9.6 EUT OPERATING CONDITIONS

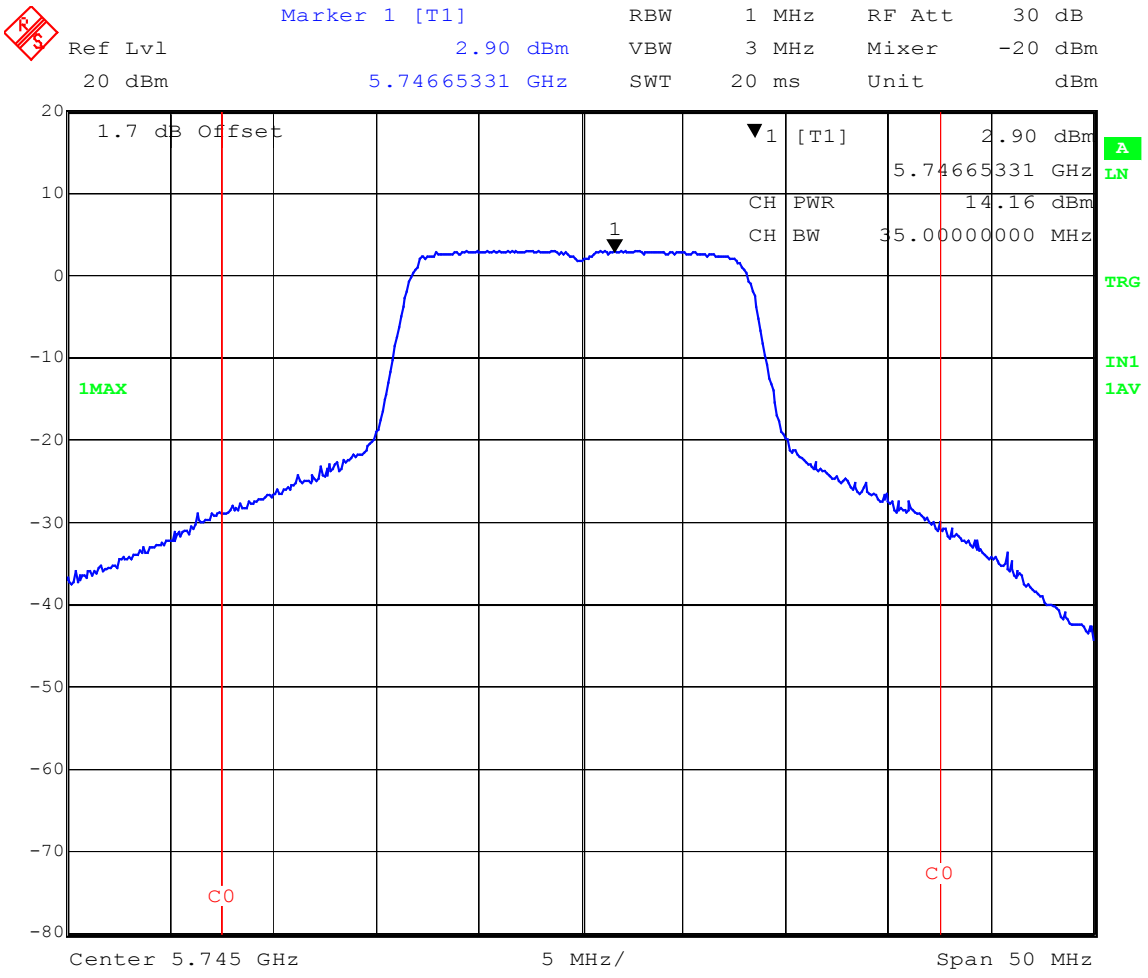
The software provided by client to enable the EUT under transmission condition continuously at high channel frequencies individually.

5.9.7 TEST RESULTS

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Data rate: 6Mbps	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

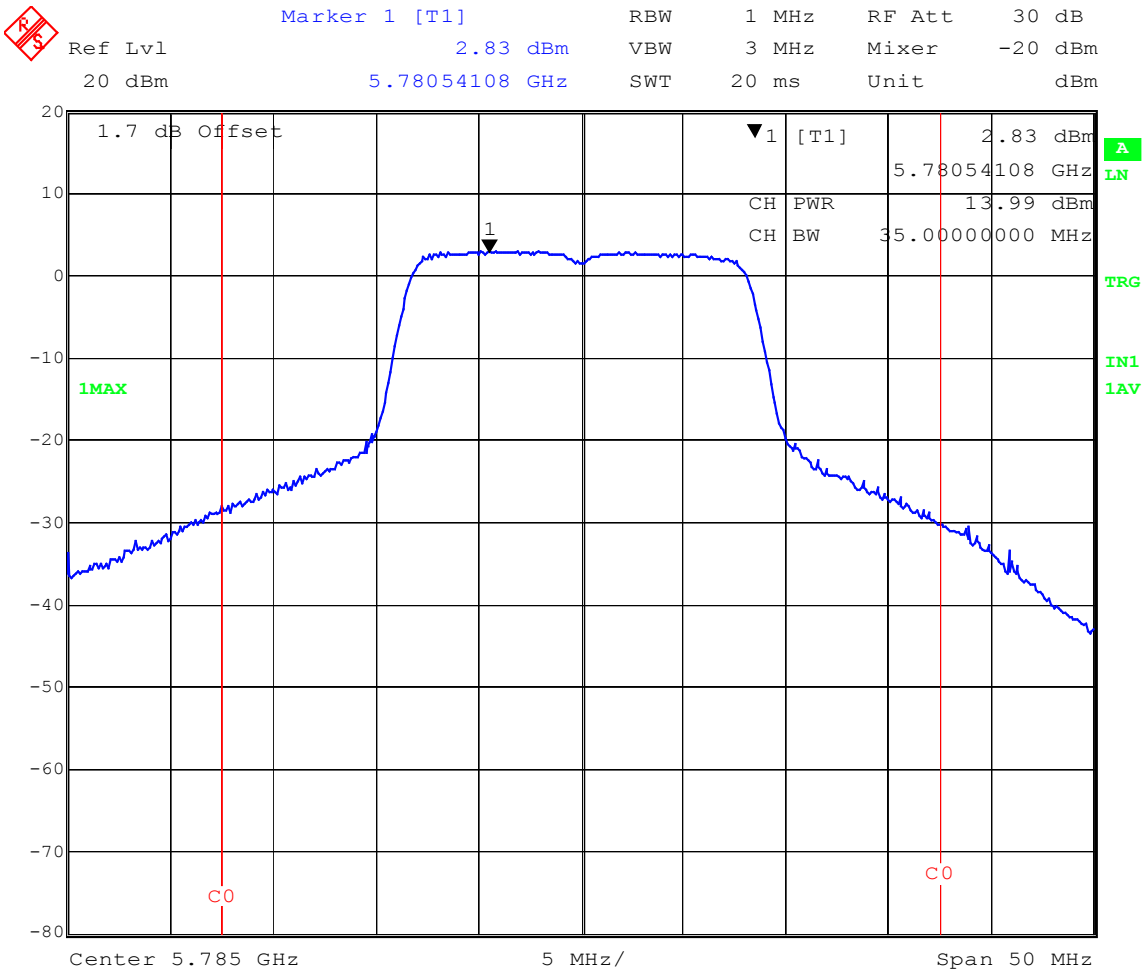
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
149	5745	14.16	30	PASS
157	5765	13.99	30	PASS
165	5825	14.36	30	PASS

Peak Power
Channel 149
Data rate: 6Mbps



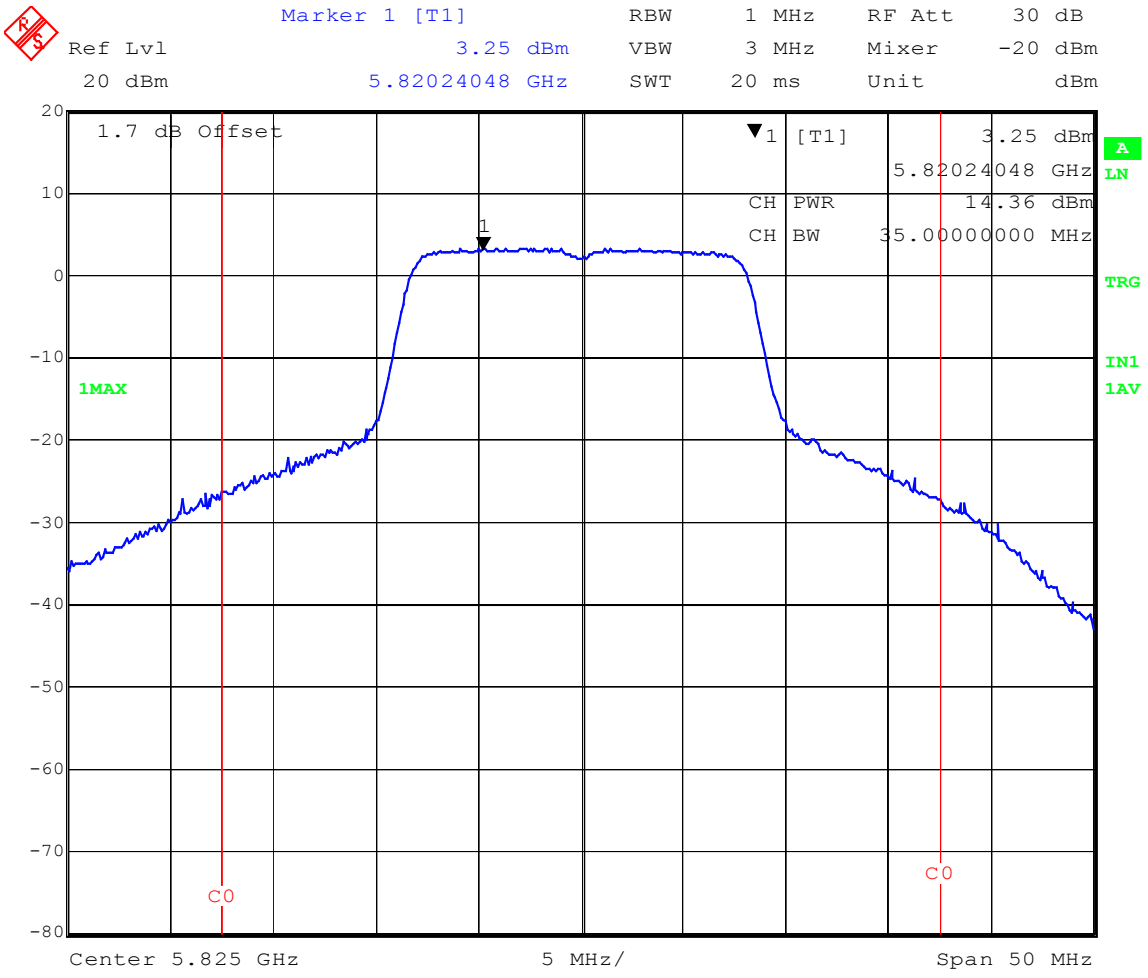
Title: Ch 149 rate 6 max power
Date: 12.MAY.2005 09:42:34

Peak Power
Channel 157
Data rate: 6Mbps



Title: Ch 157 rate 6 max power
Date: 12.MAY.2005 09:43:58

Peak Power
Channel 165
Data rate: 6Mbps

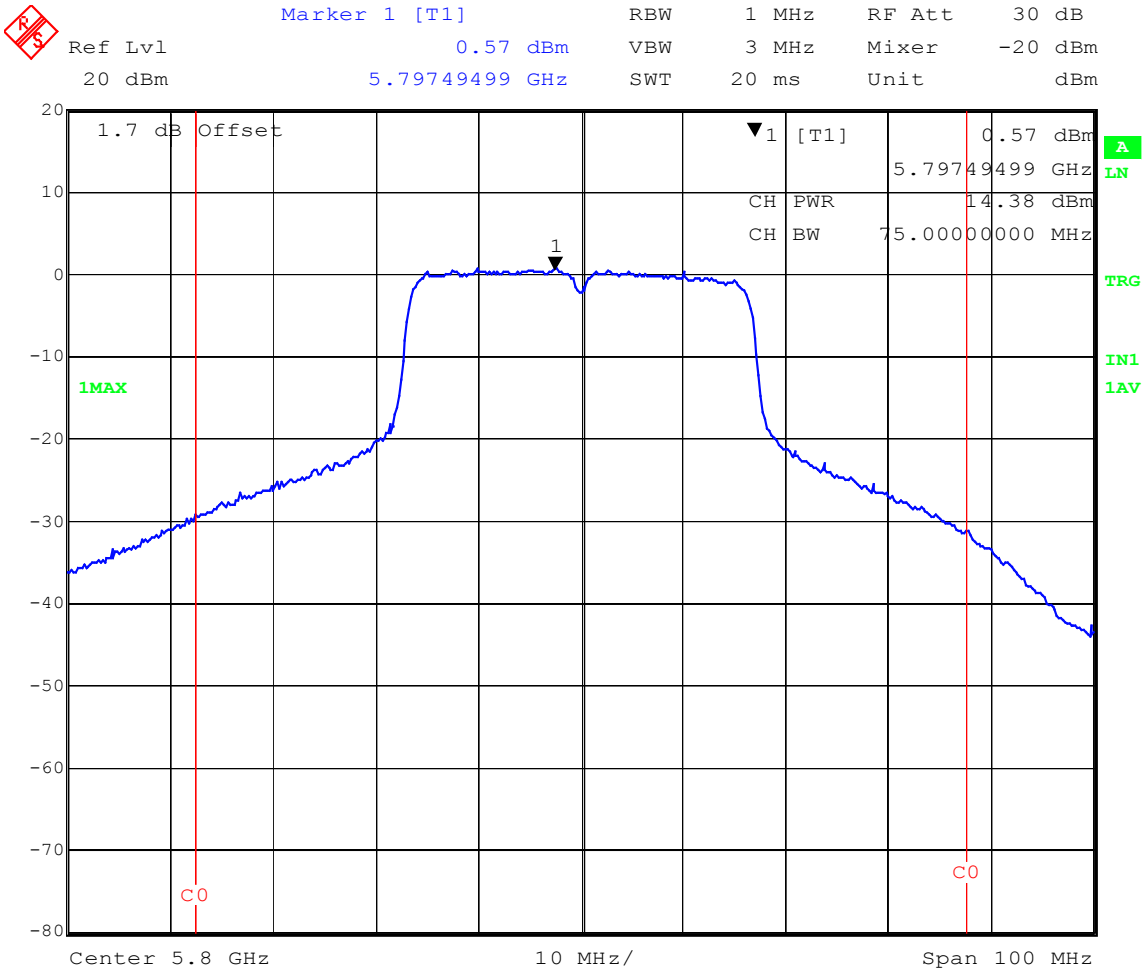


Title: Ch 165 rate 6 max power
Date: 12.MAY.2005 09:45:09

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	22deg. C, 48%RH	**TESTED BY**:	Sandra Sohn

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
160	5800	14.38	30	PASS

Peak Power
High Turbo channel 160



Title: Ch 160 rate turbo max power
Date: 12.MAY.2005 09:40:15

For FREQUENCY 5.725 ~ 5.850GHz

5.10. POWER SPECTRAL DENSITY MEASUREMENT

5.10.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

5.10.2 TEST INSTRUMENTS

Device	Model No.	Serial No.	Last Cal.	Next Cal
ROHDE & SCHWARZ EMI Test Receiver	ESIB 40	100201	01/23/05	01/23/06

5.10.3 TEST PROCEDURE

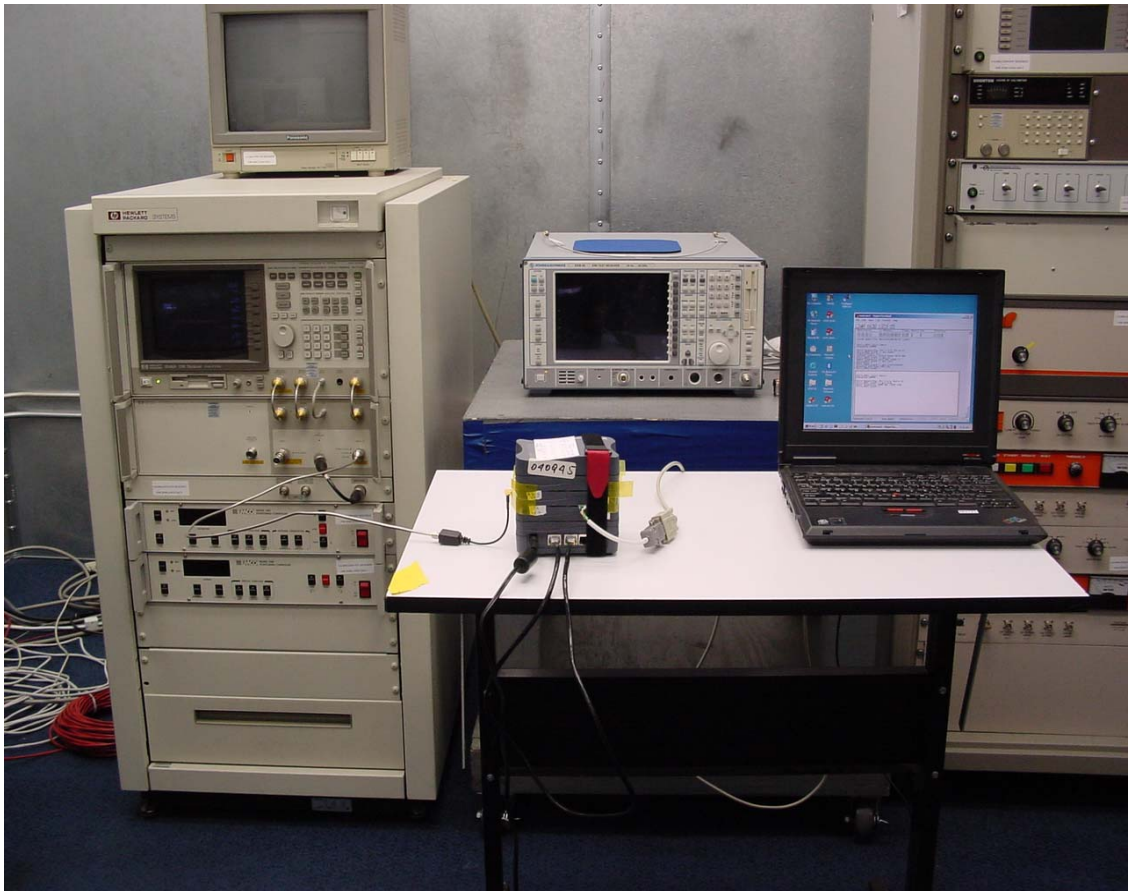
The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 KHz RBW and 10 KHz VBW, set sweep time = span/5 MHz. The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span/5 MHz for a full response of the mixer in the spectrum analyzer.

5.10.4 DEVIATION FROM TEST STANDARD

No deviation

5.10.5 TEST SETUP



5.10.6 EUT OPERATING CONDITION

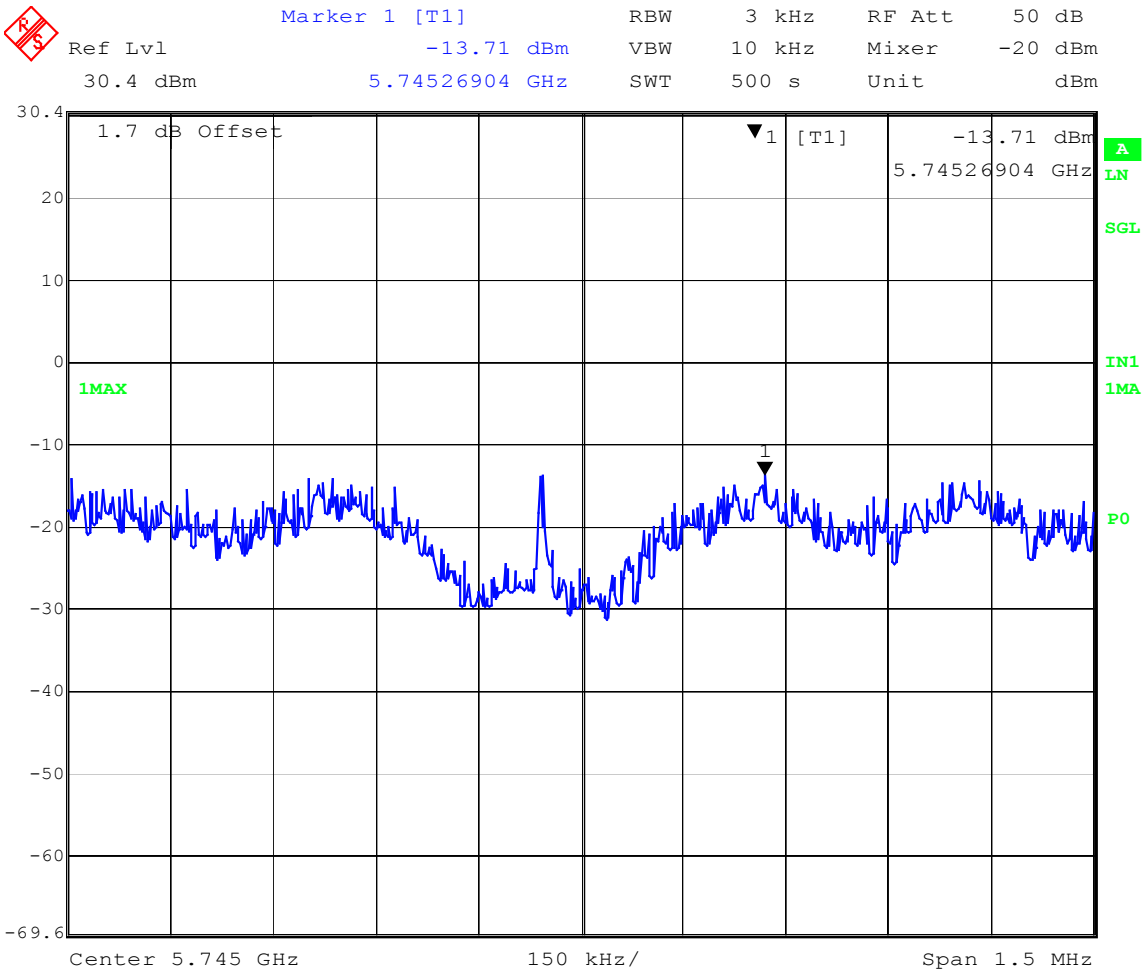
The software provided by client to enable the EUT under transmission condition continuously at high channel frequency individually.

5.10.7 TEST RESULTS

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Data rate: 6Mbps	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

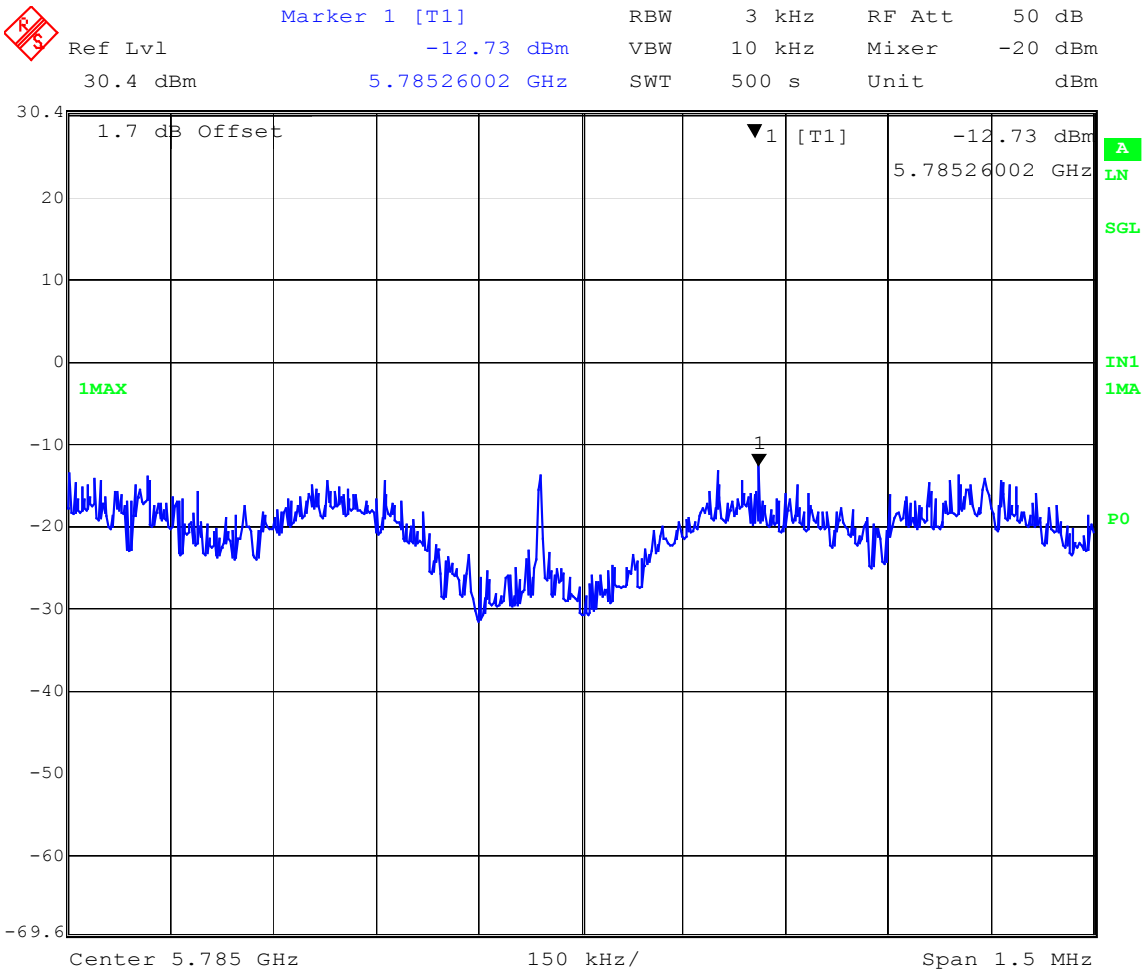
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
149	5745	-13.71	8	PASS
157	5785	-12.73	8	PASS
165	5825	-12.20	8	PASS

PPSD
Channel 149
Data rate: 6Mbps



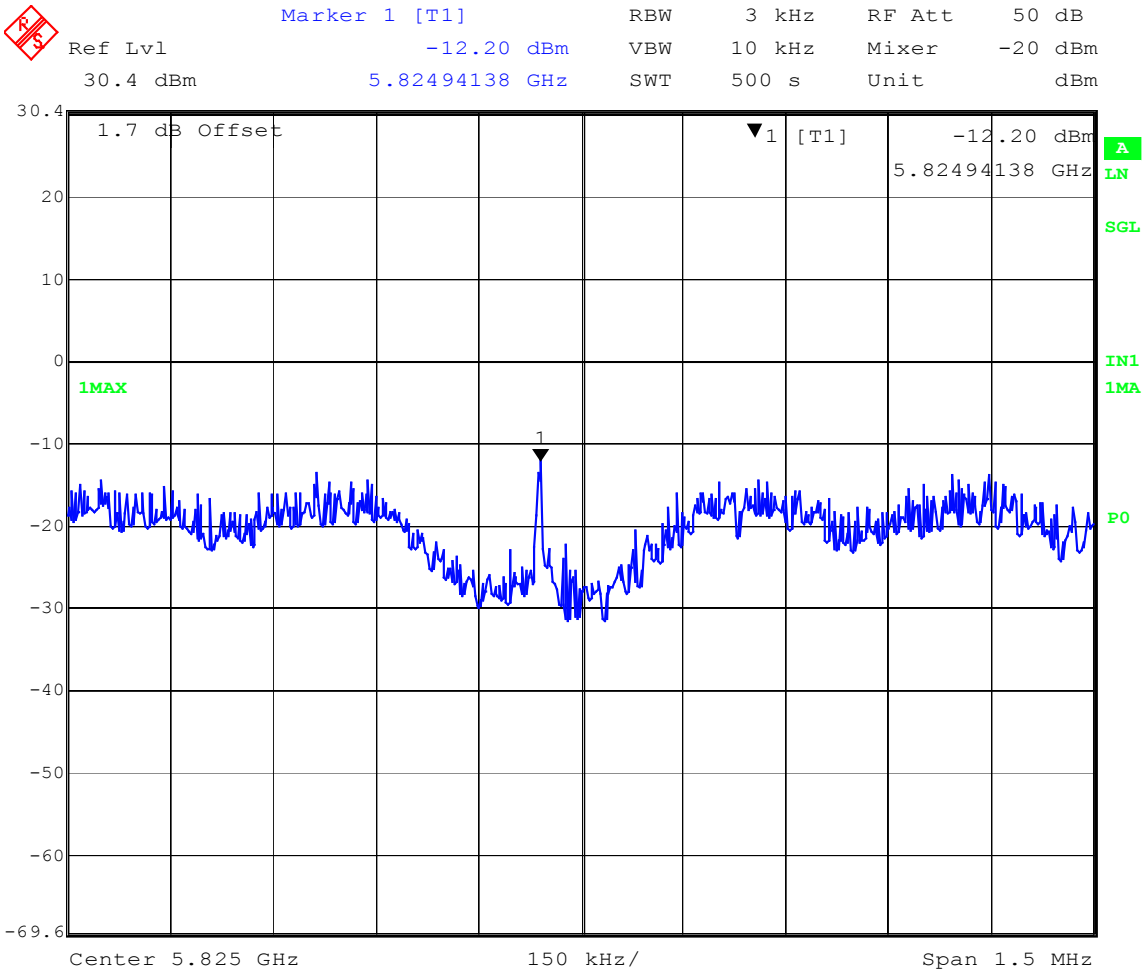
Title: Ch149 rate 6 ppsd
Date: 11.MAY.2005 15:13:31

PPSD
Channel 157
Data rate: 6Mbps



Title: Ch157 rate 6 ppsd
Date: 11.MAY.2005 15:23:14

PPSD
Channel 165
Data rate: 6Mbps

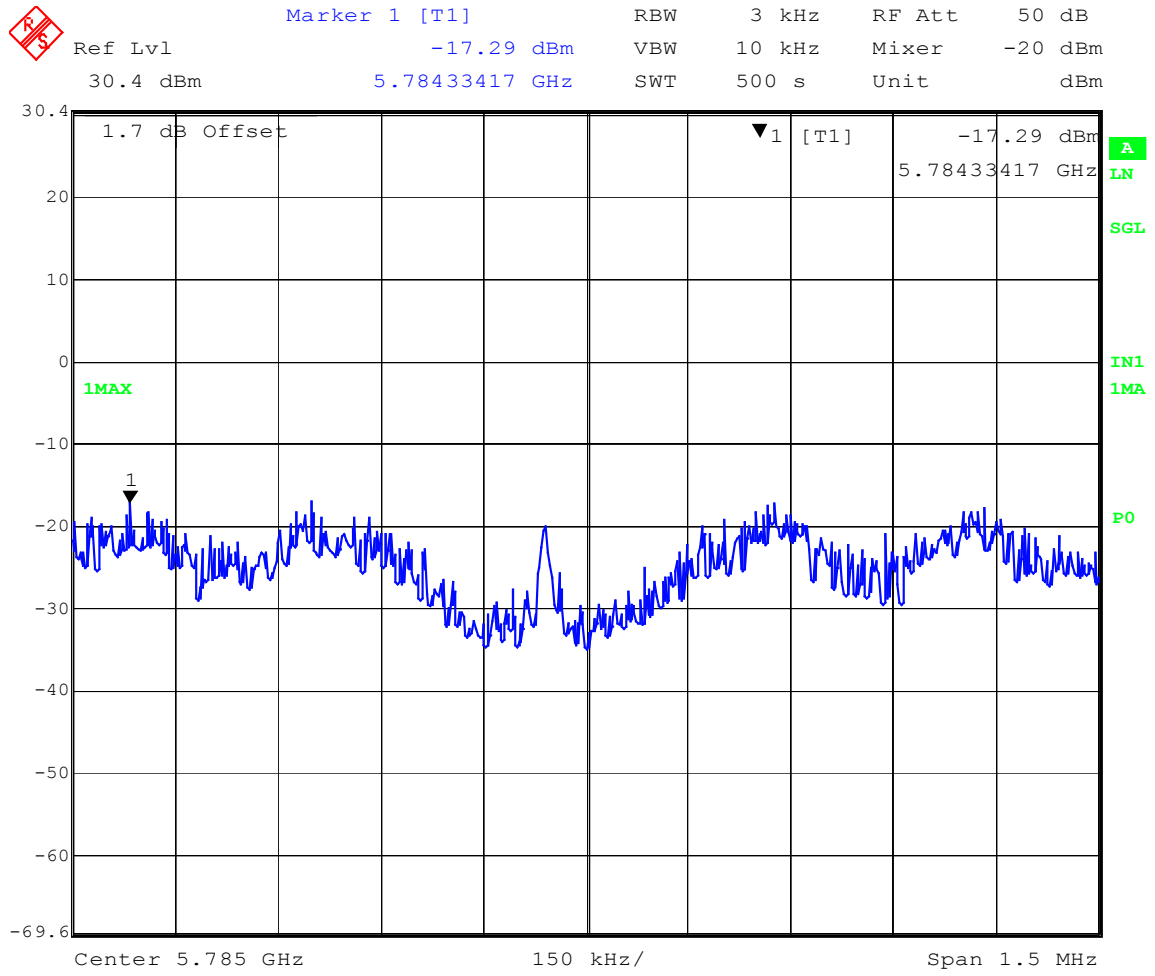


Title: Ch165 rate 6 ppsd
Date: 11.MAY.2005 15:51:04

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Data rate: 24Mbps	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
157	5785	-17.29	8	PASS

PPSD
Channel 157
Data rate: 24Mbps

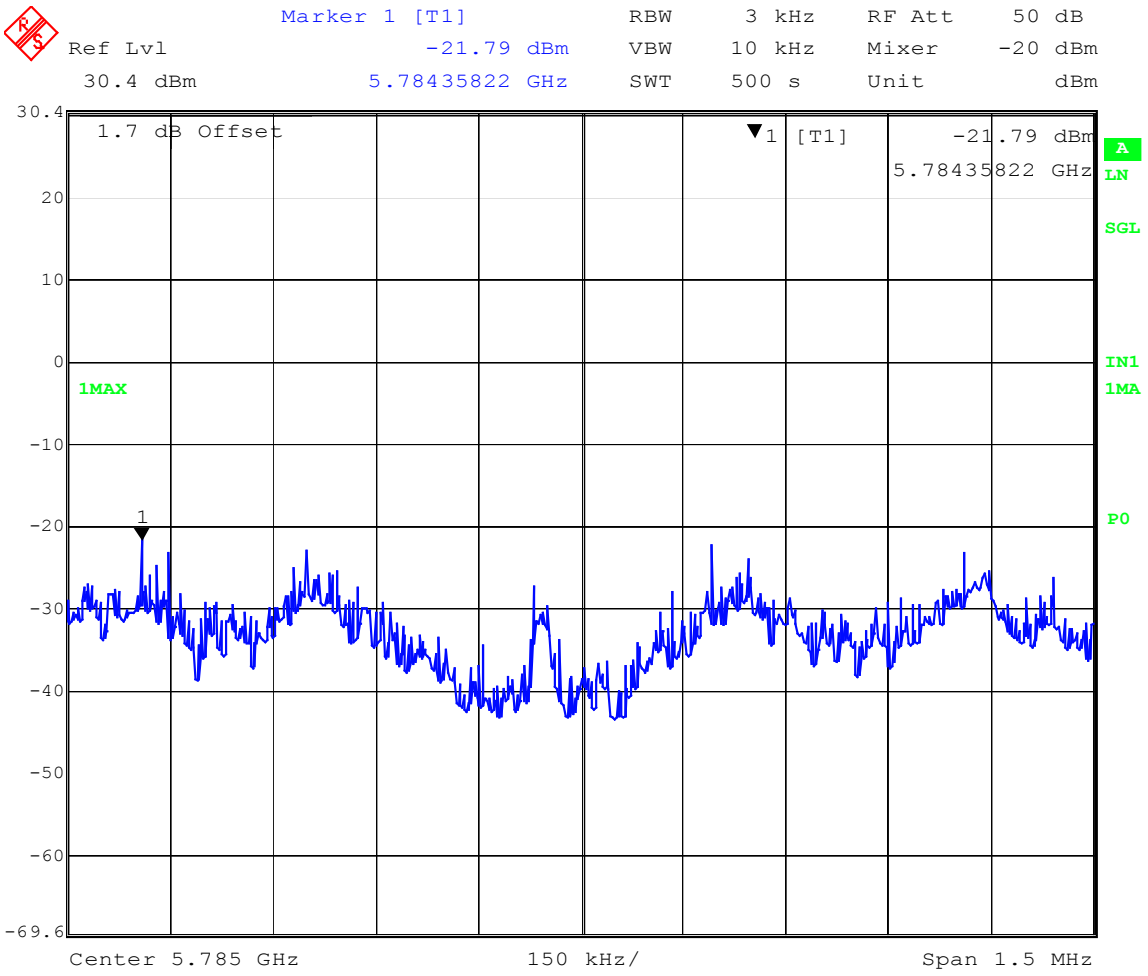


Title: Ch157 rate 24 ppsd
Date: 11.MAY.2005 15:32:19

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Normal, Data rate: 54Mbps	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
157	5785	-21.79	8	PASS

PPSD
Channel 157
Data rate: 54Mbps

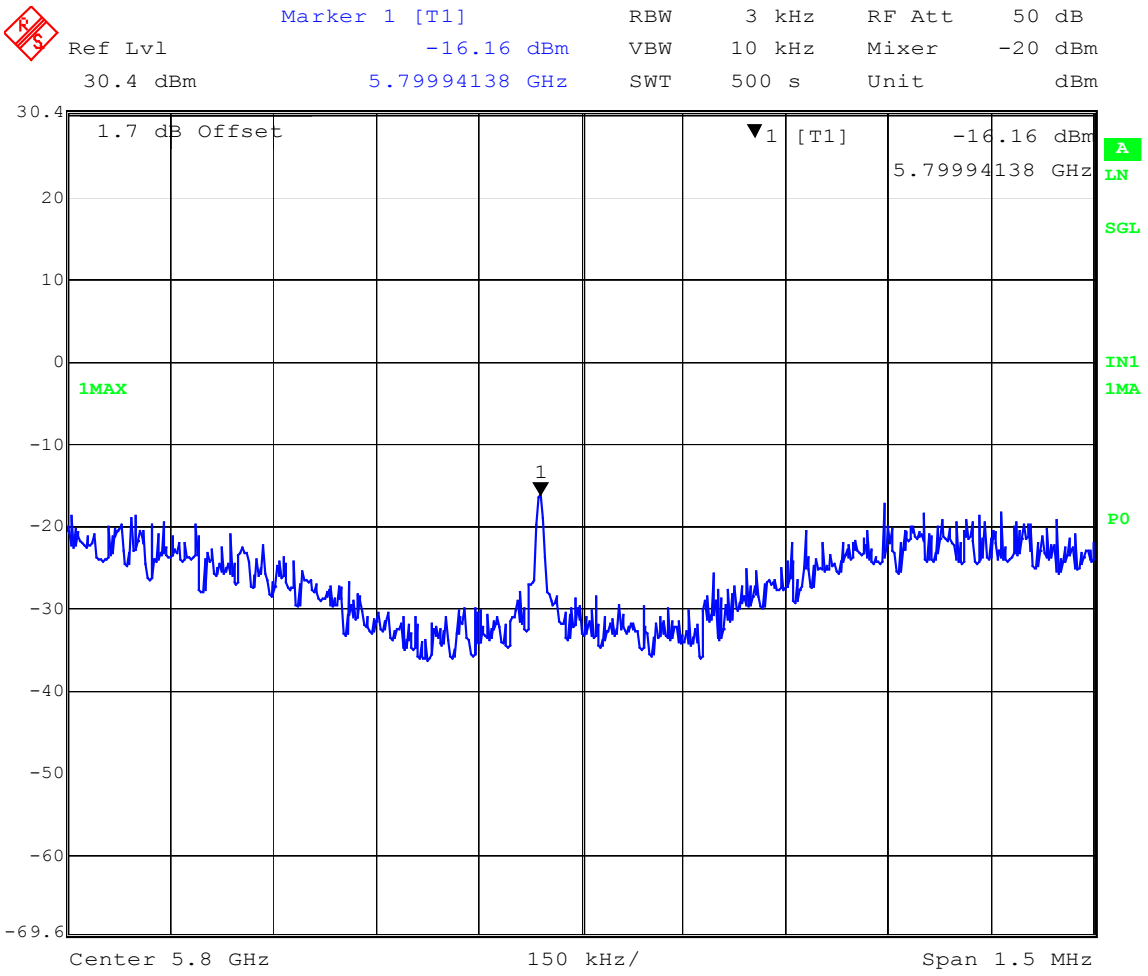


Title: Ch157 rate 54 ppsd
Date: 11.MAY.2005 15:41:17

EUT	IEEE 802.11 A/B/G WIRELESS ACCESS POINT	**MODEL**	ACCESS / ONE NETWORK: WM11Ae, WM11Ge
MODE	Turbo mode	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
ENVIRONMENTAL CONDITIONS	24deg. C, 40%RH	**TESTED BY**:	Sandra Sohn

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
160	5800	-16.16	8	PASS

PPSD
Channel 160
Turbo mode



Title: Ch160 rate turbo ppsd
Date: 11.MAY.2005 16:03:07

For FREQUENCY 5.725 ~ 5.850GHz

5.11. BAND EDGES MEASUREMENT

5.11.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

5.11.2 TEST INSTRUMENTS

Device	Model No.	Serial No.	Last Cal.	Next Cal
HP EMI Receiver	HP8546A	3325A00120	03/05/05	03/05/06

Device	Model No.	Serial No.	Last Cal.	Next Cal
ROHDE & SCHWARZ EMI Test Receiver	ESIB 40	100201	01/23/05	01/23/06

5.11.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 kHz bandwidth from band edge. The band edges was measured and recorded.

5.11.4 DEVIATION FROM TEST STANDARD

No deviation

5.11.5 EUT OPERATING CONDITION

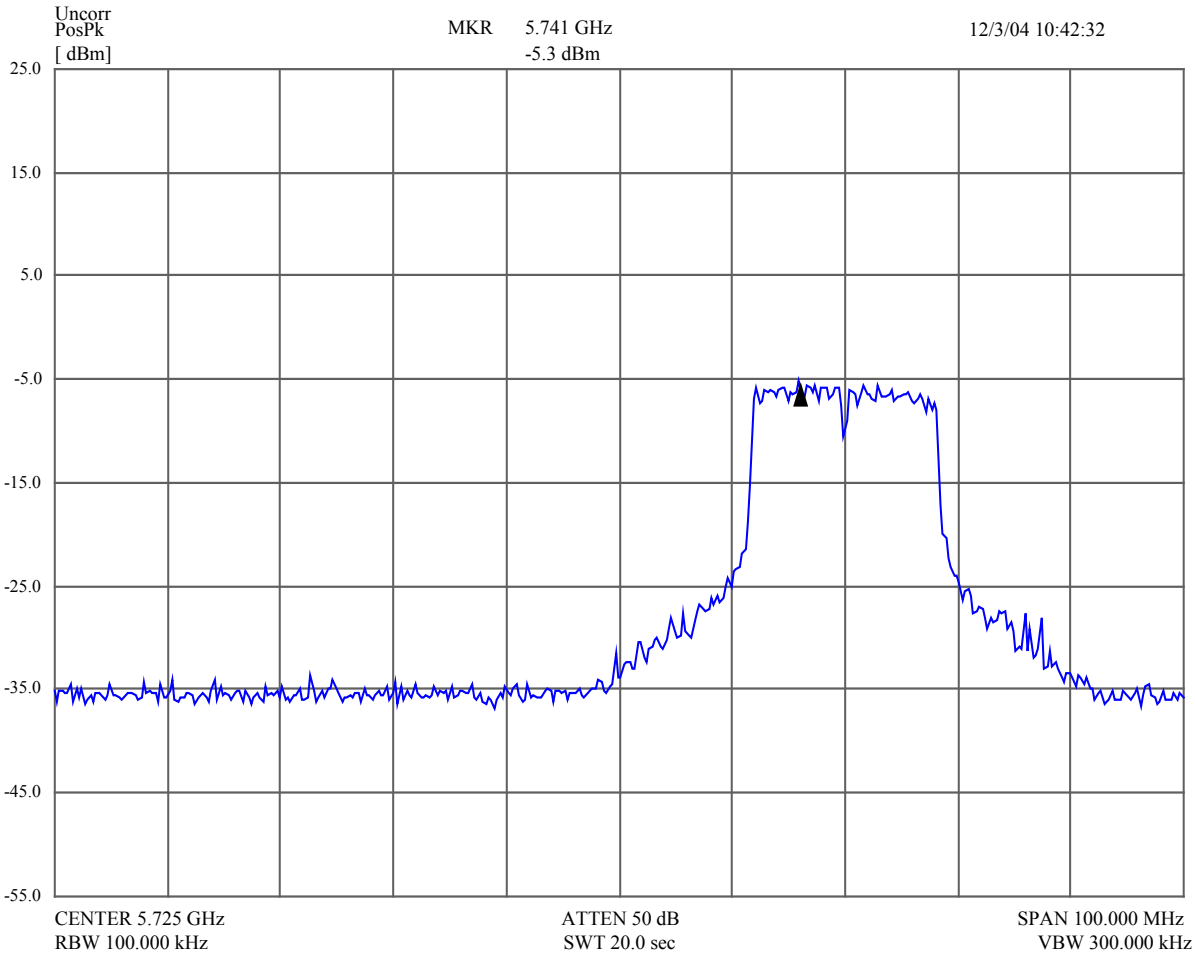
The software provided by client to enable the EUT under transmission condition continuously at middle, highest channel frequency individually.

5.11.6 TEST RESULTS

The spectrum plots are attached on the following pages. The marker indicates the highest level. It shows compliance with the requirement in part 15.247(C).

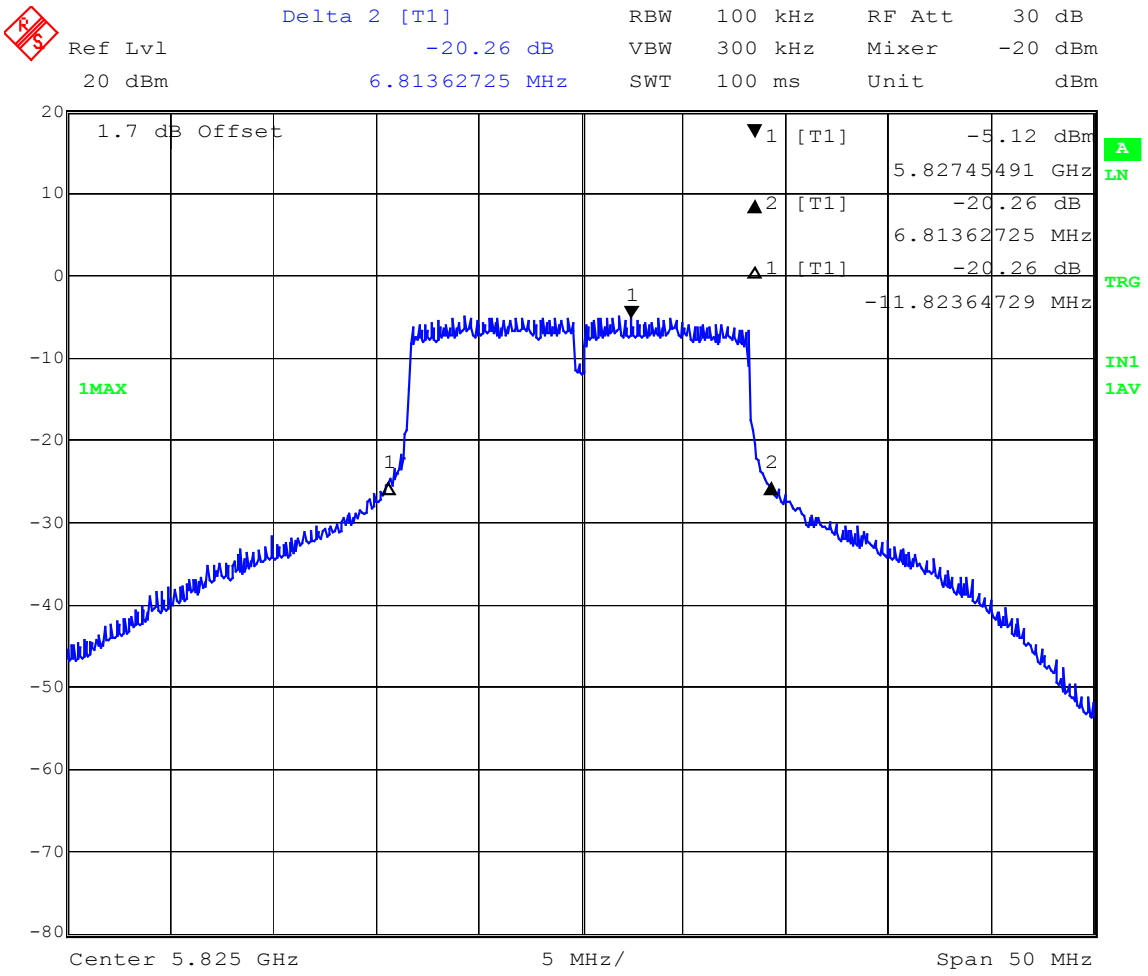
NOTE 1:
The Lower band edge emission plot on the following first 1 page for Channel 149 shows at least 20dB delta between carrier maximum power and local maximum emission outside the frequency band (5.725GHz), based on a RF conducted measurement.

Channel 149
Data rate: 6Mbps



NOTE 2:
The Upper band edge emission plot on the following second 1 page for Channel 165 shows at least 20dB delta between carrier maximum power and local maximum emission outside the frequency band (5.850GHz), based on a RF conducted measurement.

Channel 165
Data rate: 6Mbps



Title: Ch 165 rate 6 20dB band edge
Date: 12.MAY.2005 10:08:57