

5.2.8. Transmitter Peak Power Spectral Density**Test Summary:**

Test Engineer:	David Lakeland	Test Date:	07 June 2011 & 08 June 2011
Test Sample Serial No:	ID 3		

FCC/IC Part:	15.407(a) and RSS-210 A9.2 (2) & (3)
Test Method Used:	As detailed in ANSI C63.10 Section 6.11.1.2.2 Method 2

Environmental Conditions:

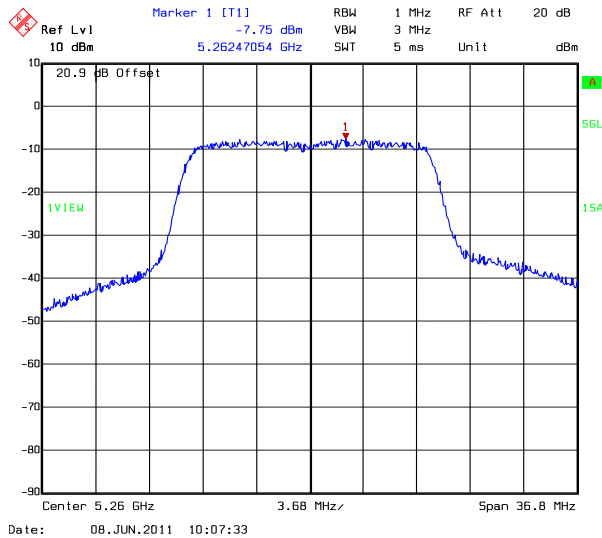
Temperature (°C):	23
Relative Humidity (%):	28

Transmitter Peak Power Spectral Density (continued)**Results**

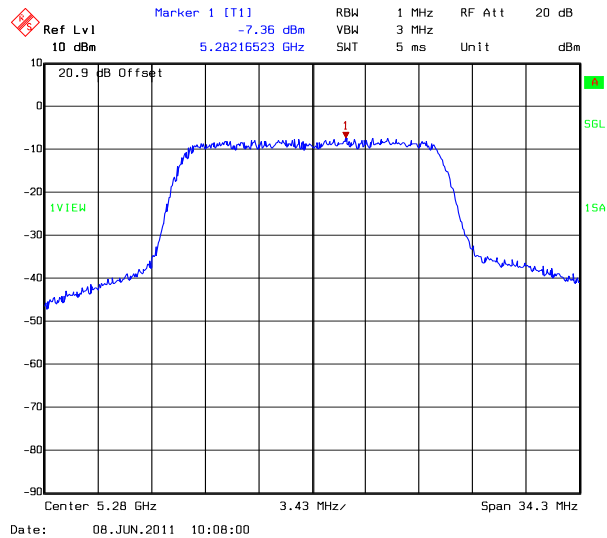
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5260	BPSK	6	-7.7	11	18.7	Complied
Middle	5280	BPSK	6	-7.4	11	18.4	Complied
Top	5320	BPSK	6	-7.5	11	18.5	Complied
Bottom	5260	BPSK	9	-8.0	11	19	Complied
Middle	5280	BPSK	9	-8.0	11	19	Complied
Top	5320	BPSK	9	-7.2	11	18.2	Complied
Bottom	5260	QPSK	12	-7.4	11	18.4	Complied
Middle	5280	QPSK	12	-8.0	11	19	Complied
Top	5320	QPSK	12	-7.5	11	18.5	Complied
Bottom	5260	QPSK	18	-8.0	11	19	Complied
Middle	5280	QPSK	18	-7.9	11	18.9	Complied
Top	5320	QPSK	18	-7.6	11	18.6	Complied
Bottom	5260	16QAM	24	-7.9	11	18.9	Complied
Middle	5280	16QAM	24	-7.8	11	18.8	Complied
Top	5320	16QAM	24	-7.7	11	18.7	Complied
Bottom	5260	16QAM	36	-7.8	11	18.8	Complied
Middle	5280	16QAM	36	-7.6	11	18.6	Complied
Top	5320	16QAM	36	-7.6	11	18.6	Complied
Bottom	5260	64QAM	48	-7.8	11	18.8	Complied
Middle	5280	64QAM	48	-7.8	11	18.8	Complied
Top	5320	64QAM	48	-7.6	11	18.6	Complied
Bottom	5260	64QAM	54	-7.7	11	18.7	Complied
Middle	5280	64QAM	54	-7.2	11	18.2	Complied
Top	5320	64QAM	54	-7.2	11	18.2	Complied
Bottom	5500	BPSK	6	-6.6	11	17.6	Complied
Middle	5600	BPSK	6	-7.3	11	18.3	Complied
Top	5700	BPSK	6	-9.2	11	20.2	Complied
Bottom	5500	BPSK	9	-5.7	11	16.7	Complied
Middle	5600	BPSK	9	-7.1	11	18.1	Complied
Top	5700	BPSK	9	-8.8	11	19.8	Complied
Bottom	5500	QPSK	12	-7.1	11	18.1	Complied
Middle	5600	QPSK	12	-7.0	11	18	Complied
Top	5700	QPSK	12	-9.2	11	20.2	Complied

Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Bottom	5500	QPSK	18	-7.0	11	18	Complied
Middle	5600	QPSK	18	-7.4	11	18.4	Complied
Top	5700	QPSK	18	-9.2	11	20.2	Complied
Bottom	5500	16QAM	24	-6.7	11	17.7	Complied
Middle	5600	16QAM	24	-7.6	11	18.6	Complied
Top	5700	16QAM	24	-9.2	11	20.2	Complied
Bottom	5500	16QAM	36	-7.1	11	18.1	Complied
Middle	5600	16QAM	36	-7.3	11	18.3	Complied
Top	5700	16QAM	36	-9.3	11	20.3	Complied
Bottom	5500	64QAM	48	-7.1	11	18.1	Complied
Middle	5600	64QAM	48	-7.1	11	18.1	Complied
Top	5700	64QAM	48	-9.1	11	20.1	Complied
Bottom	5500	64QAM	54	-6.9	11	17.9	Complied
Middle	5600	64QAM	54	-7.5	11	18.5	Complied
Top	5700	64QAM	54	-9.1	11	20.1	Complied
Bottom	5260	BPSK	6.5	-8.1	11	19.1	Complied
Middle	5280	BPSK	6.5	-7.1	11	18.1	Complied
Top	5320	BPSK	6.5	-7.1	11	18.1	Complied
Bottom	5260	QPSK	13	-8.0	11	19	Complied
Middle	5280	QPSK	13	-7.7	11	18.7	Complied
Top	5320	QPSK	13	-8.0	11	19	Complied
Bottom	5260	QPSK	19.5	-8.1	11	19.1	Complied
Middle	5280	QPSK	19.5	-8.0	11	19	Complied
Top	5320	QPSK	19.5	-7.9	11	18.9	Complied
Bottom	5260	16QAM	26	-8.1	11	19.1	Complied
Middle	5280	16QAM	26	-7.6	11	18.6	Complied
Top	5320	16QAM	26	-8.0	11	19	Complied
Bottom	5260	16QAM	39	-8.2	11	19.2	Complied
Middle	5280	16QAM	39	-7.8	11	18.8	Complied
Top	5320	16QAM	39	-7.7	11	18.7	Complied
Bottom	5260	64QAM	52	-8.2	11	19.2	Complied
Middle	5280	64QAM	52	-7.8	11	18.8	Complied
Top	5320	64QAM	52	-7.7	11	18.7	Complied
Bottom	5260	64QAM	58.5	-8.5	11	19.5	Complied
Middle	5280	64QAM	58.5	-8.4	11	19.4	Complied

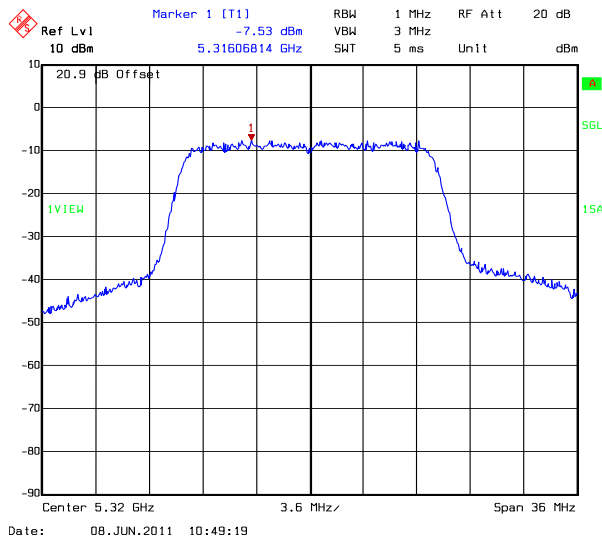
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	PSD (dBm/MHz)	Limit (dBm/MHz)	Margin (dB)	Result
Top	5320	64QAM	58.5	-7.9	11	18.9	Complied
Bottom	5260	64QAM	65	-8.3	11	19.3	Complied
Middle	5280	64QAM	65	-7.0	11	18.0	Complied
Top	5320	64QAM	65	-7.5	11	18.5	Complied
Bottom	5500	BPSK	6.5	-6.9	11	17.9	Complied
Middle	5600	BPSK	6.5	-7.3	11	18.3	Complied
Top	5700	BPSK	6.5	-9.0	11	20.0	Complied
Bottom	5500	QPSK	13	-6.3	11	17.3	Complied
Middle	5600	QPSK	13	-7.2	11	18.2	Complied
Top	5700	QPSK	13	-9.1	11	20.1	Complied
Bottom	5500	QPSK	19.5	-7.0	11	18.0	Complied
Middle	5600	QPSK	19.5	-7.5	11	18.5	Complied
Top	5700	QPSK	19.5	-9.4	11	20.4	Complied
Bottom	5500	16QAM	26	-7.1	11	18.1	Complied
Middle	5600	16QAM	26	-7.8	11	18.8	Complied
Top	5700	16QAM	26	-9.4	11	20.4	Complied
Bottom	5500	16QAM	39	-7.3	11	18.3	Complied
Middle	5600	16QAM	39	-7.5	11	18.5	Complied
Top	5700	16QAM	39	-9.1	11	20.1	Complied
Bottom	5500	64QAM	52	-7.2	11	18.2	Complied
Middle	5600	64QAM	52	-7.7	11	18.7	Complied
Top	5700	64QAM	52	-9.1	11	20.1	Complied
Bottom	5500	64QAM	58.5	-6.5	11	17.5	Complied
Middle	5600	64QAM	58.5	-7.5	11	18.5	Complied
Top	5700	64QAM	58.5	-8.9	11	19.9	Complied
Bottom	5500	64QAM	65	-6.5	11	17.5	Complied
Middle	5600	64QAM	65	-7.2	11	18.2	Complied
Top	5700	64QAM	65	-8.7	11	19.7	Complied

Transmitter Peak Power Spectral Density (continued)**Plots**

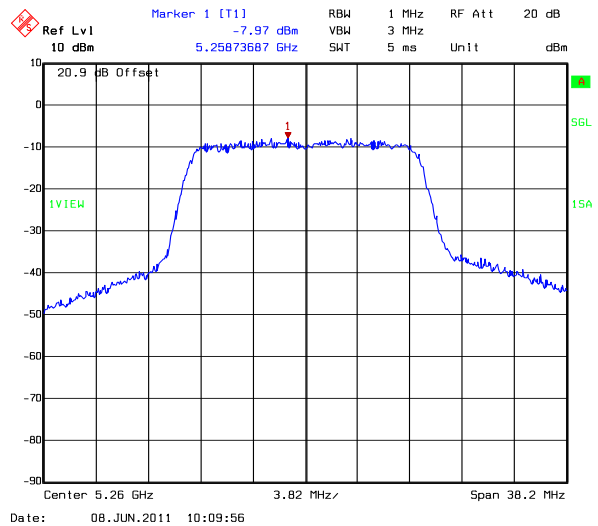
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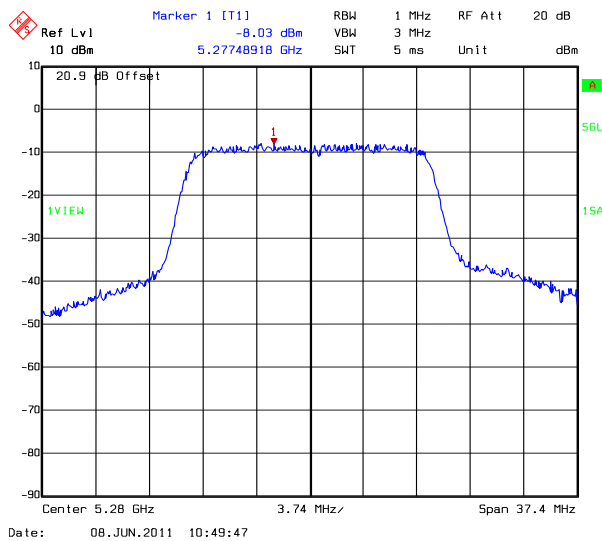
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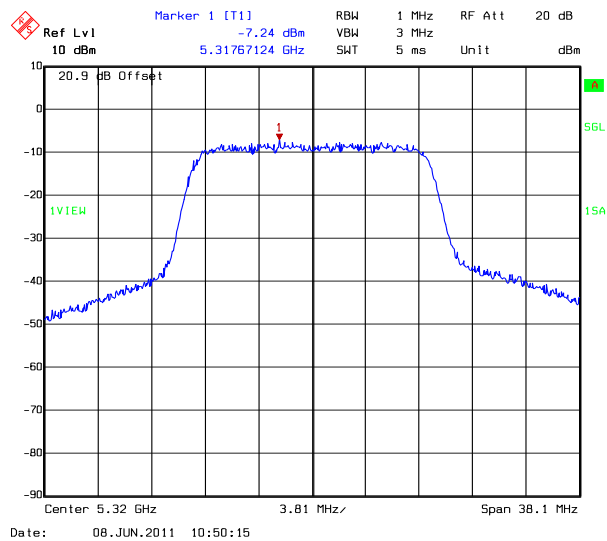
PSD_UNII_2_802_11A_6MBS_TopChannel



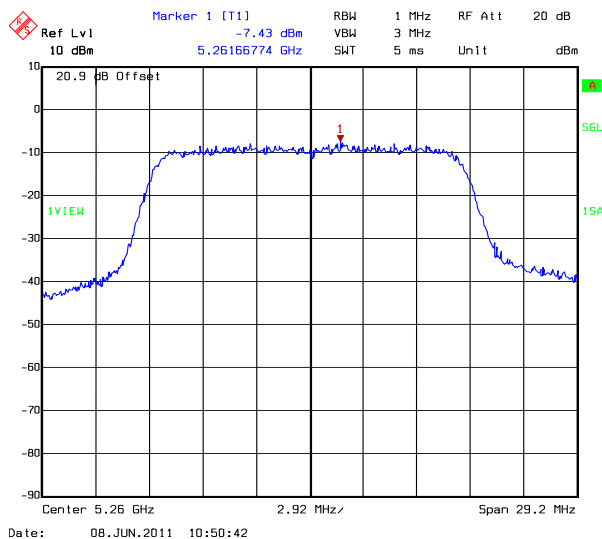
PSD_UNII_2_802_11A_9MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)

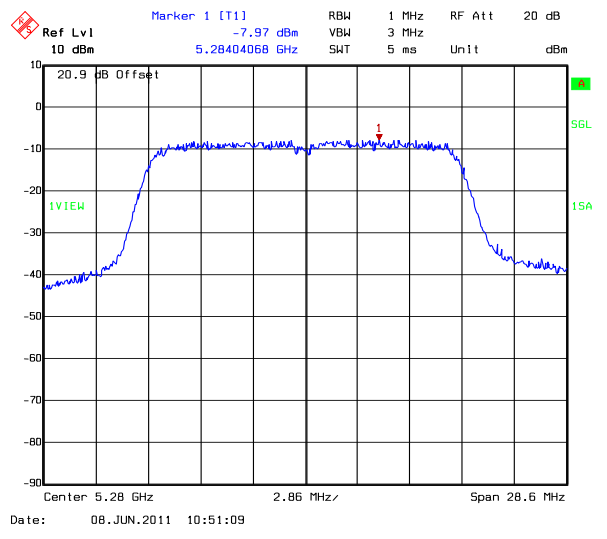
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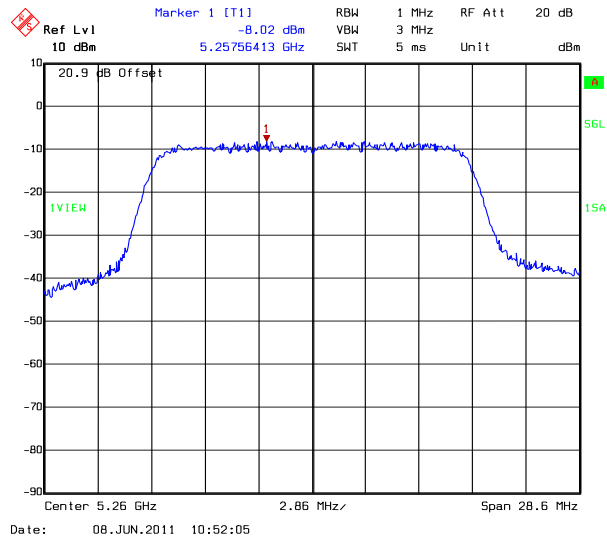
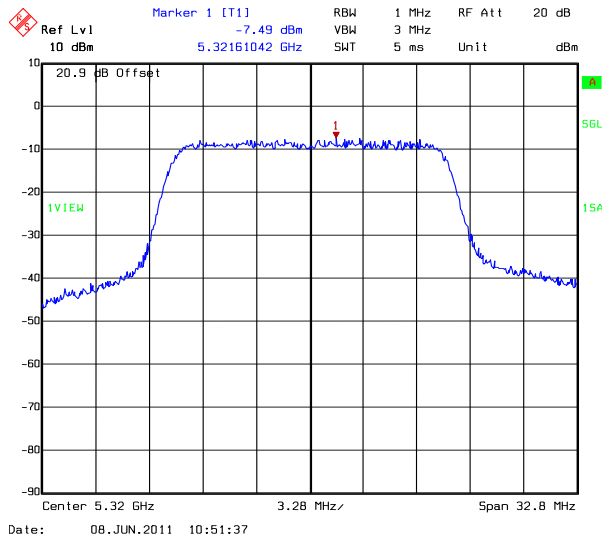
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PSD_UNII_2_802_11A_12MBS_BottomChannel

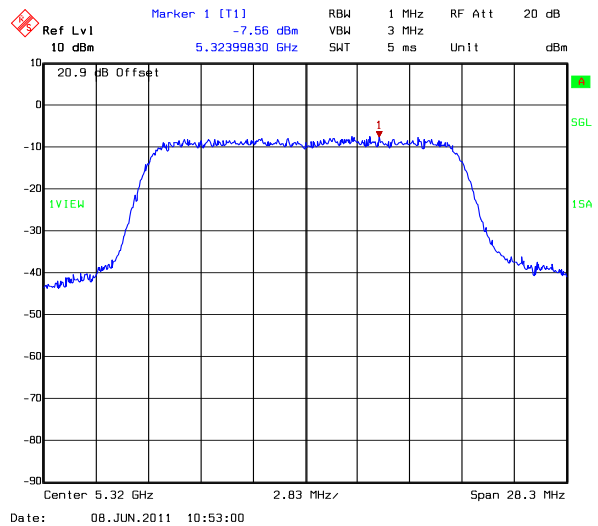
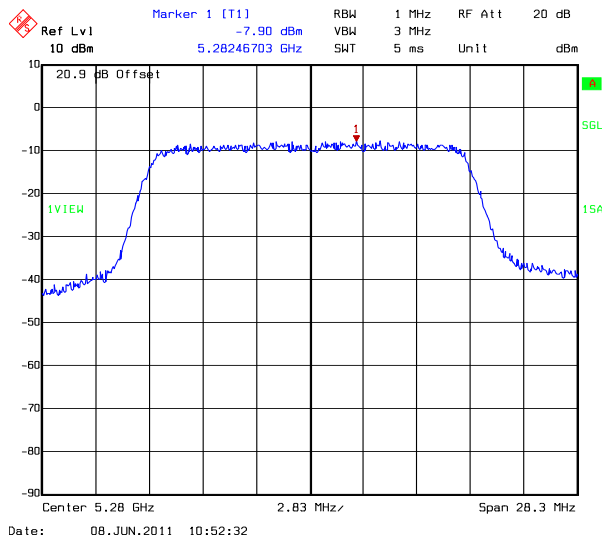


PSD_UNII_2_802_11A_12MBS_MiddleChannel

Transmitter Peak Power Spectral Density (continued)

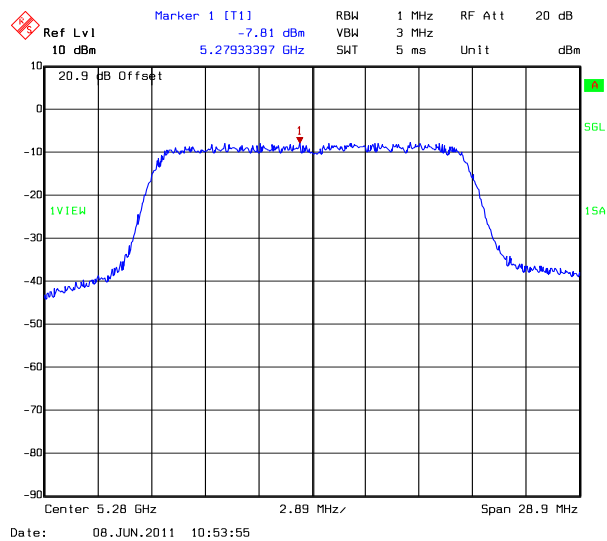
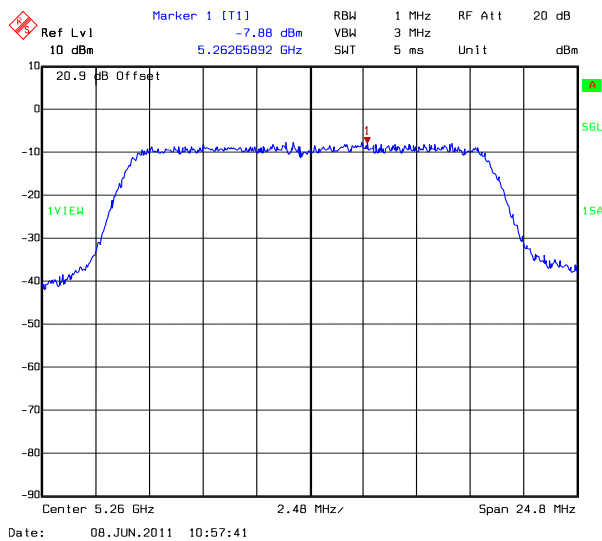
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PSD_UNII_2_802_11A_18MBS_BottomChannel



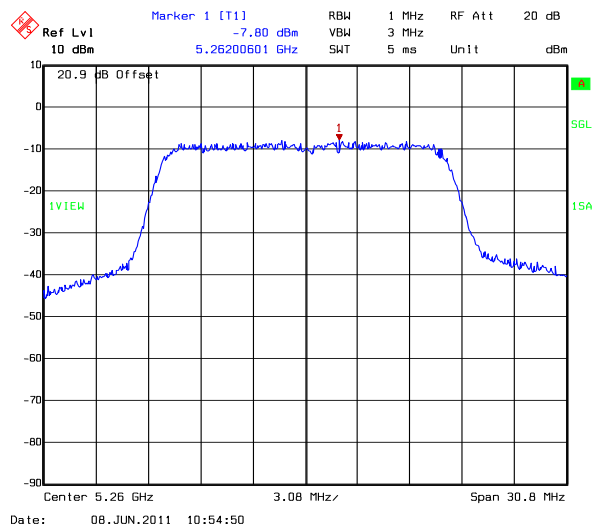
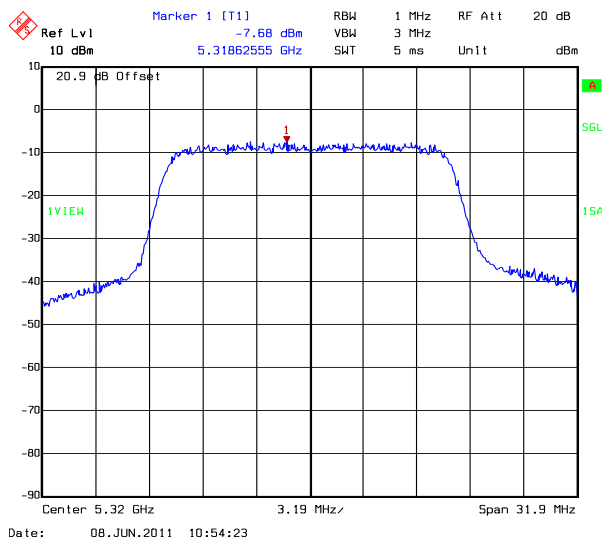
PSD_UNII_2_802_11A_18MBS_MiddleChannel

PSD_UNII_2_802_11A_18MBS_TopChannel

Transmitter Peak Power Spectral Density (continued)

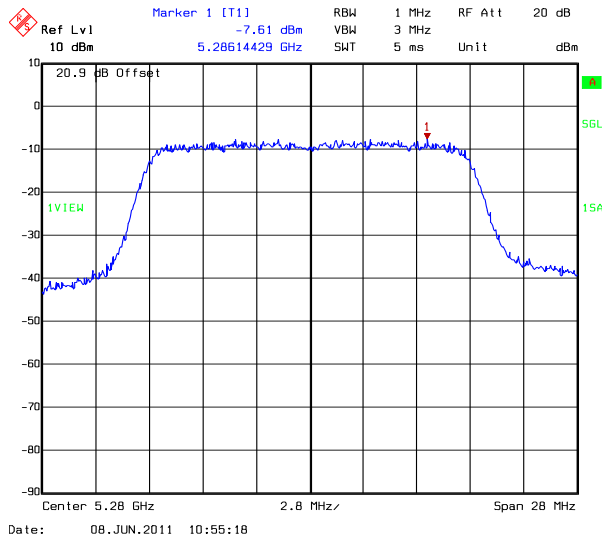
PSD_UNII_2_802_11A_24MBS_BottomChannel

PSD_UNII_2_802_11A_24MBS_MiddleChannel

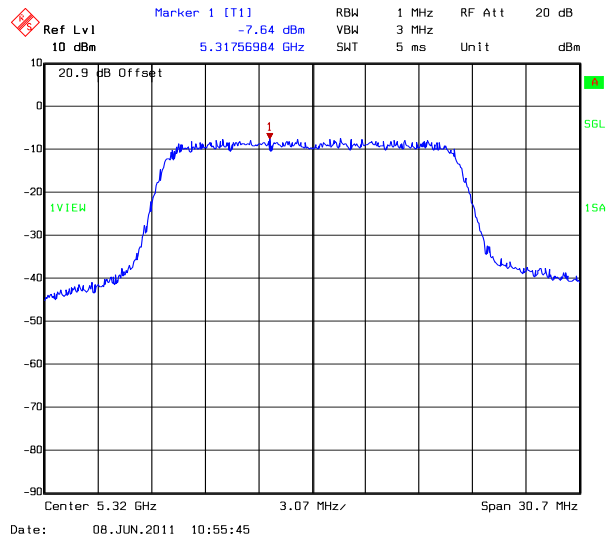


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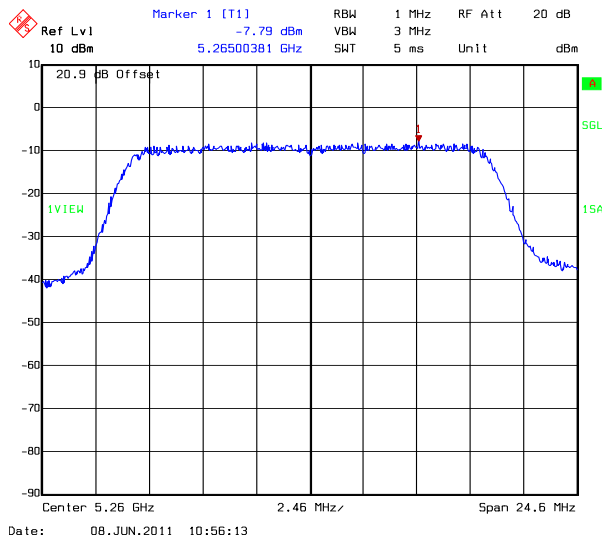
PSD_UNII_2_802_11A_36MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)

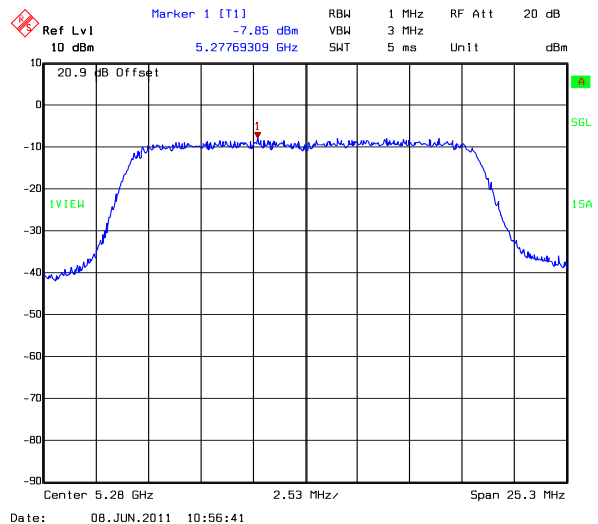
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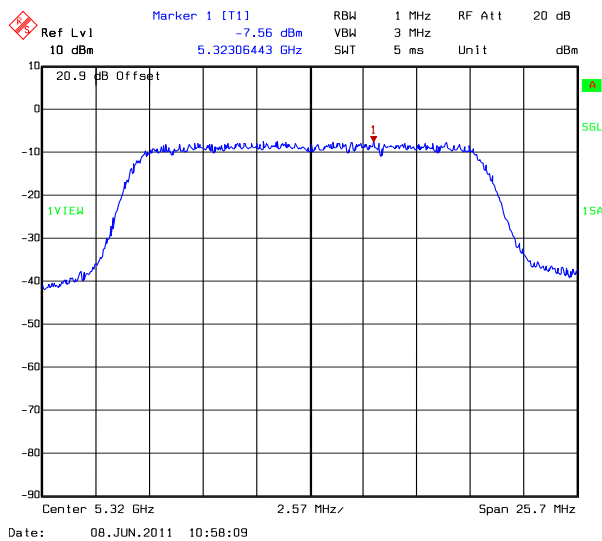
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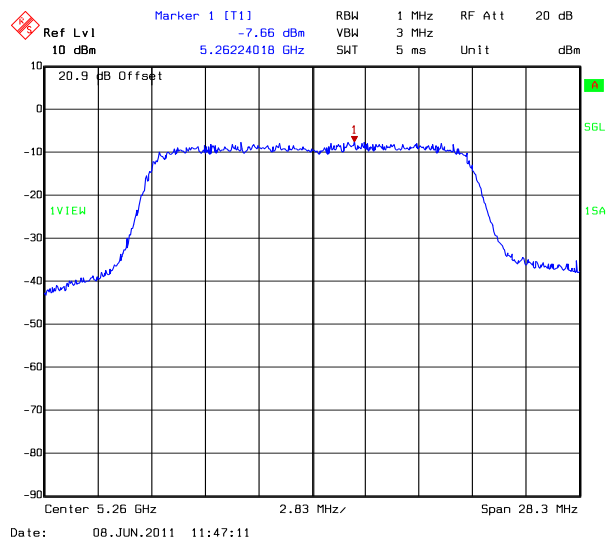
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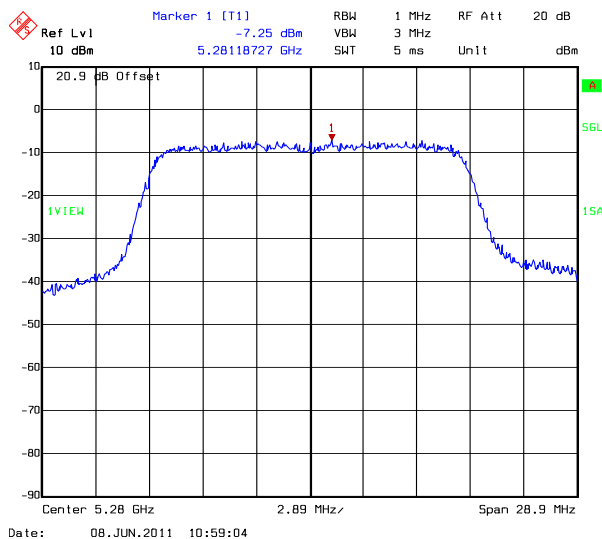
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Transmitter Peak Power Spectral Density (continued)

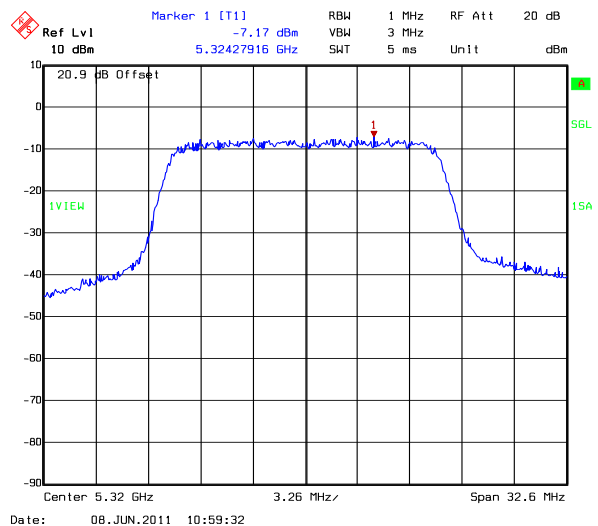
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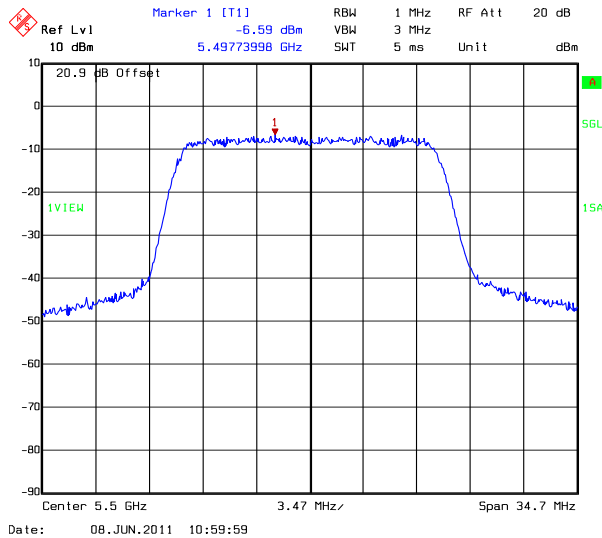
PSD_UNII_2_802_11A_54MBS_BottomChannel



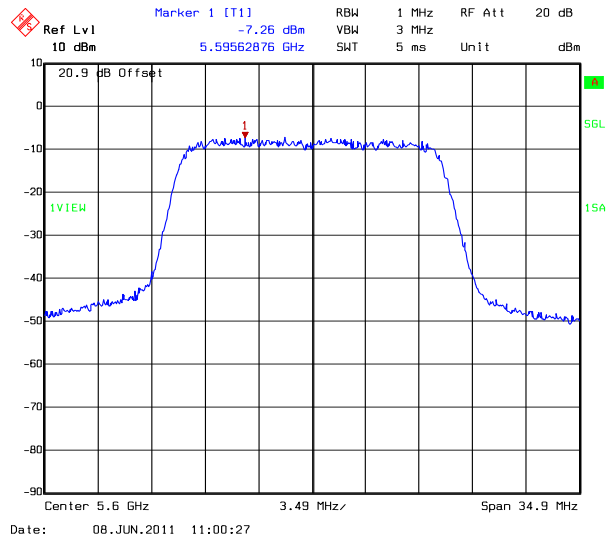
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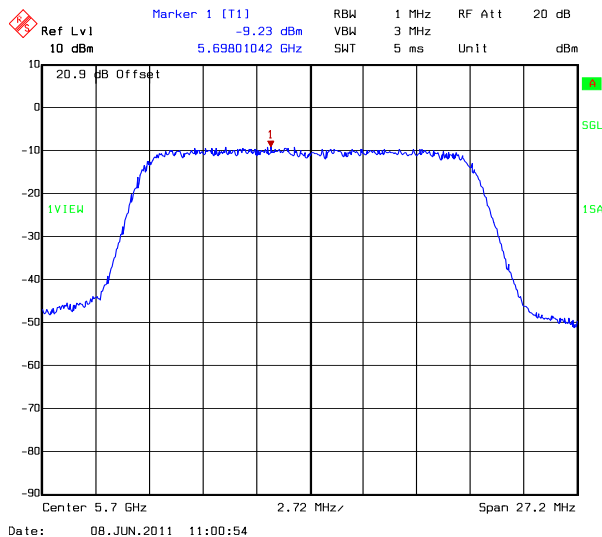
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Transmitter Peak Power Spectral Density (continued)

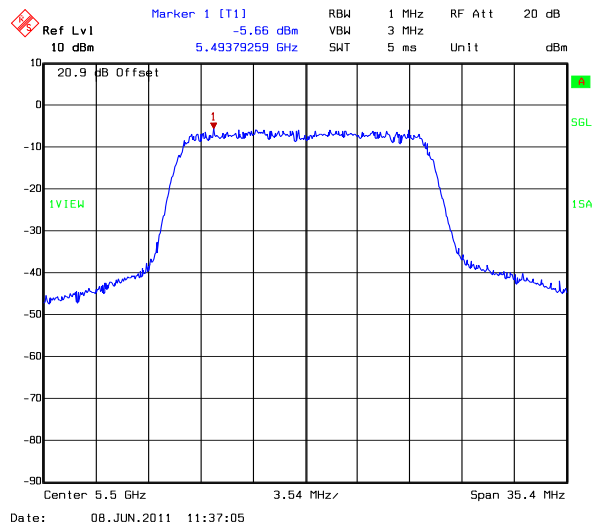
PSD_UNII_3_802_11A_6MBS_BottomChannel



PSD_UNII_3_802_11A_6MBS_MiddleChannel

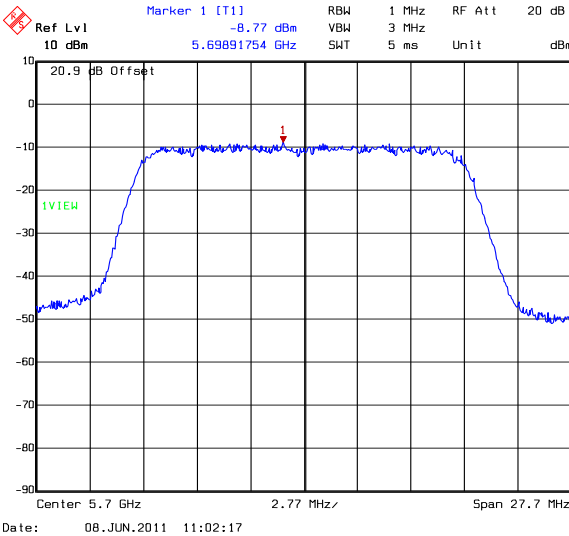
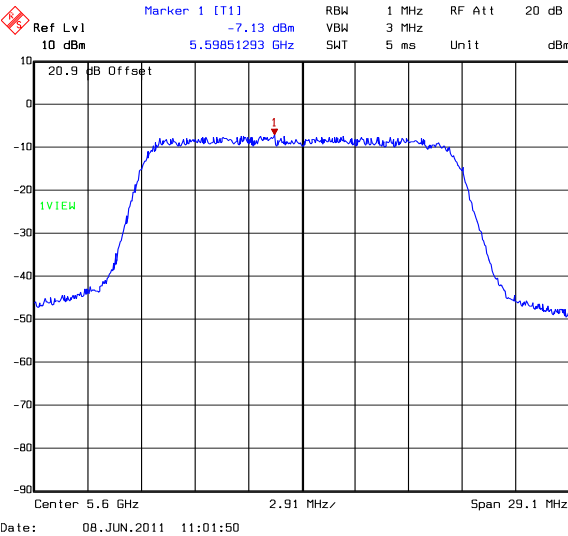


PSD_UNII_3_802_11A_6MBS_TopChannel



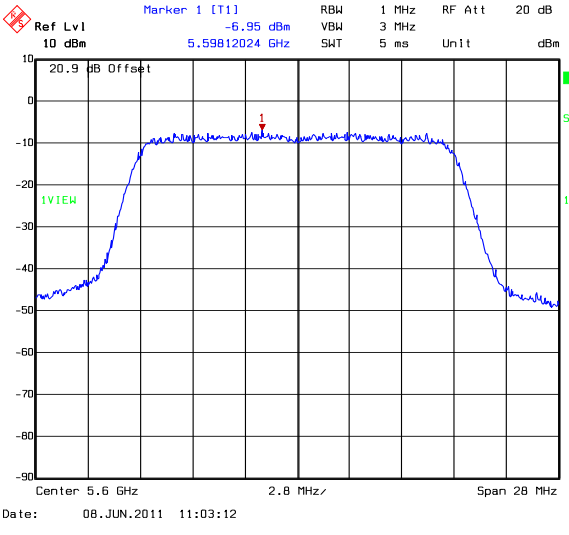
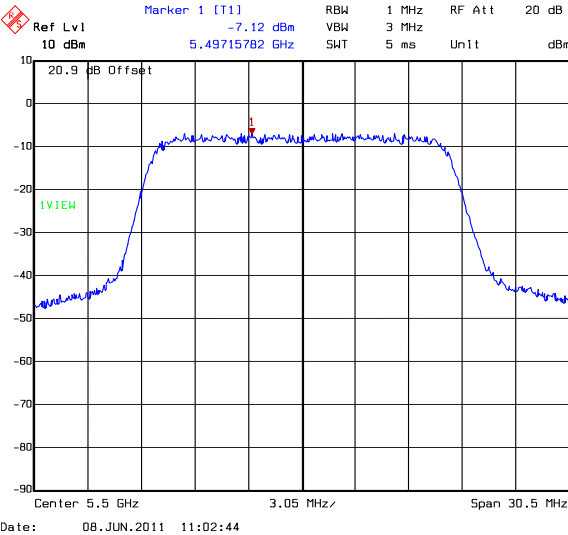
PSD_UNII_3_802_11A_9MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)



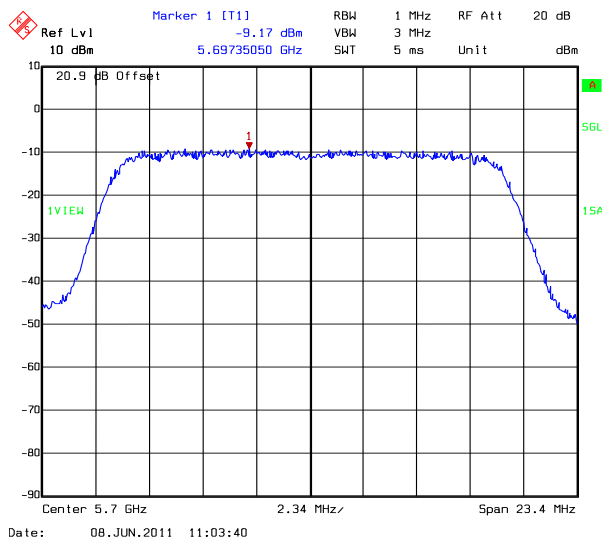
PSD_UNII_3_802_11A_9MBS_MiddleChannel

PSD_UNII_3_802_11A_9MBS_TopChannel

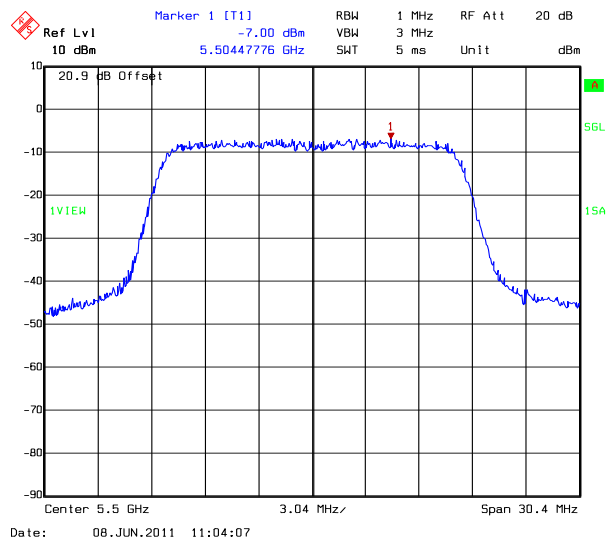


PSD_UNII_3_802_11A_12MBS_BottomChannel

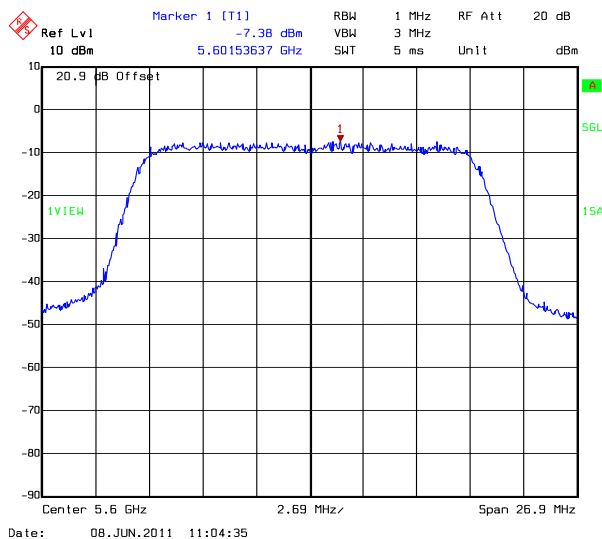
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Transmitter Peak Power Spectral Density (continued)

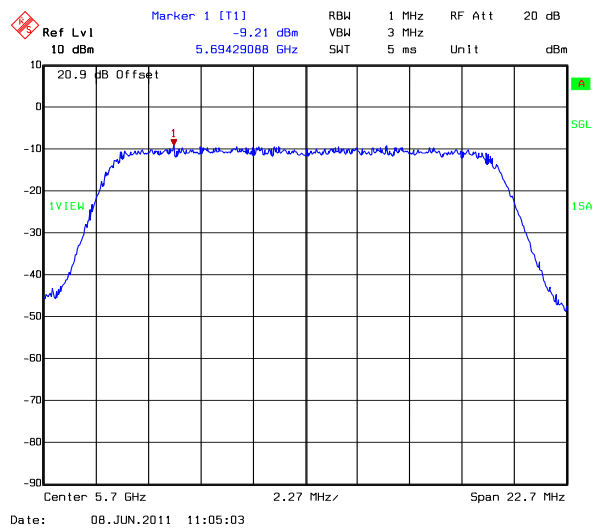
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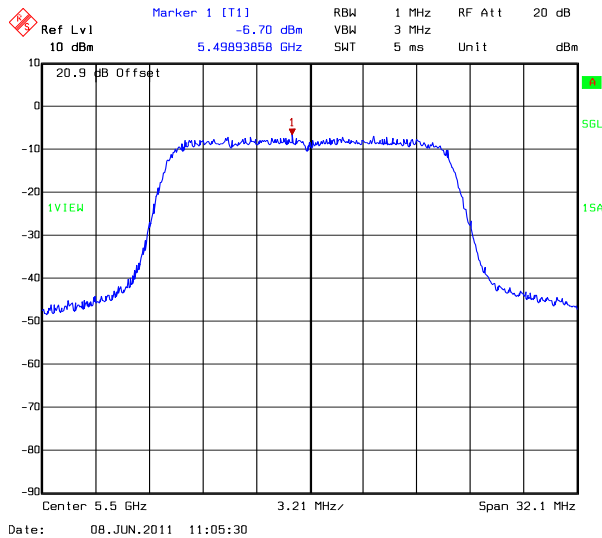
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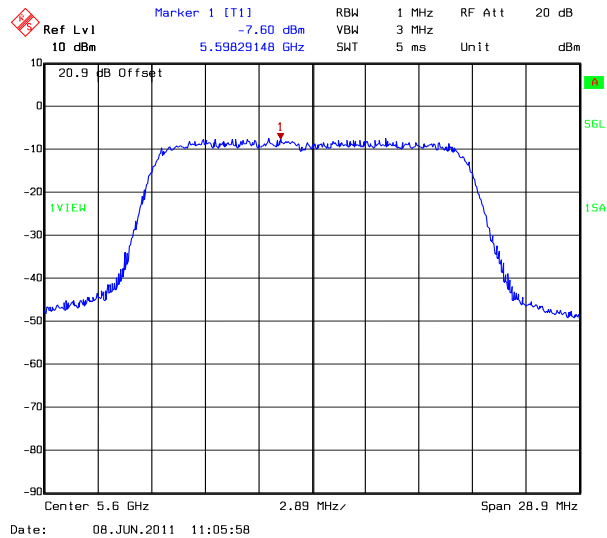
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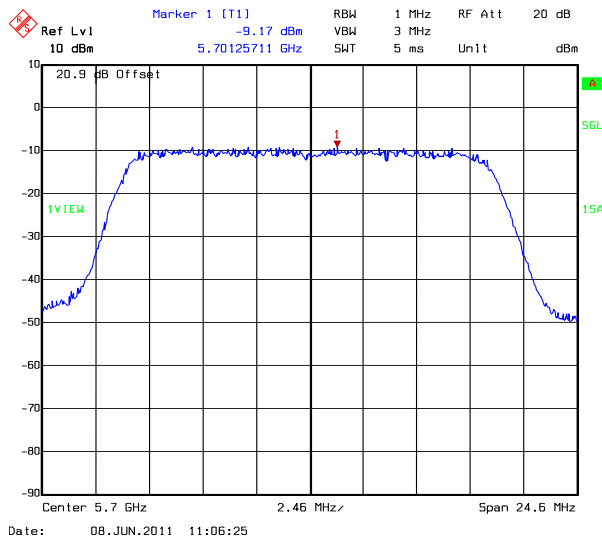
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Transmitter Peak Power Spectral Density (continued)

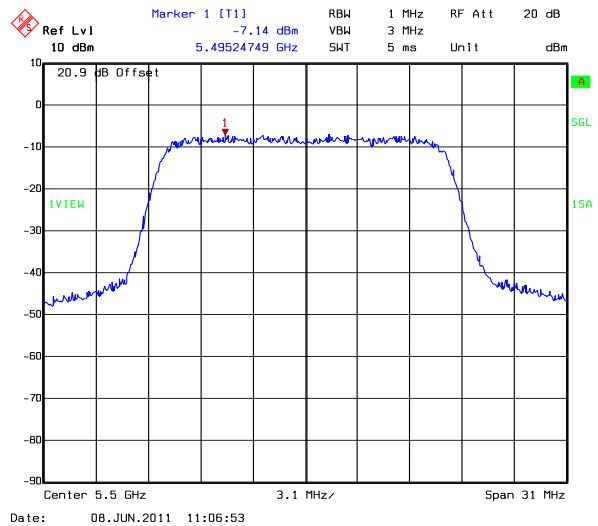
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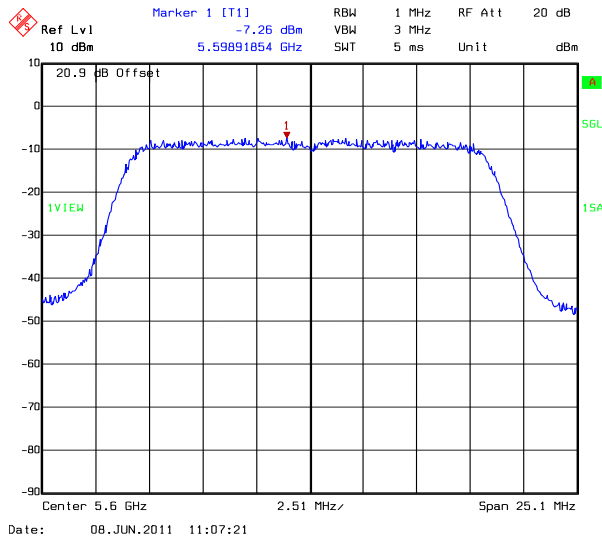
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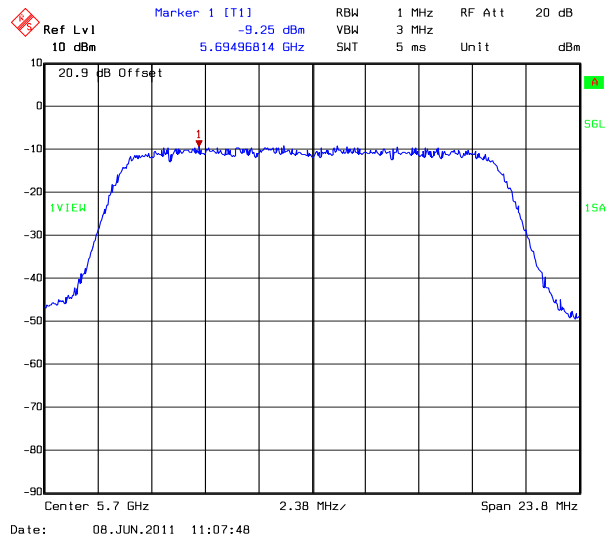
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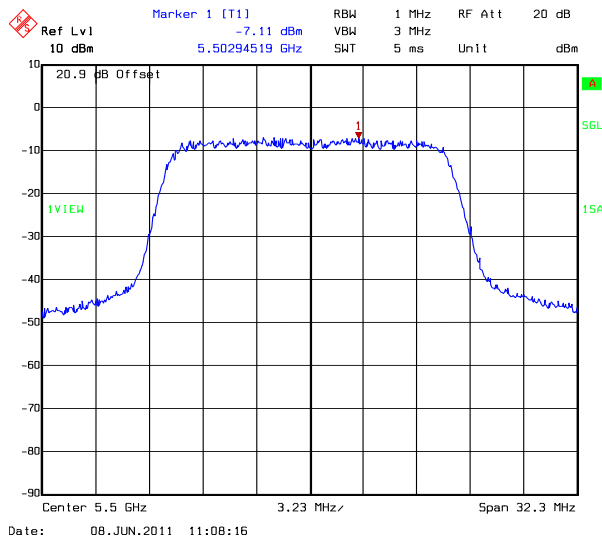
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Transmitter Peak Power Spectral Density (continued)

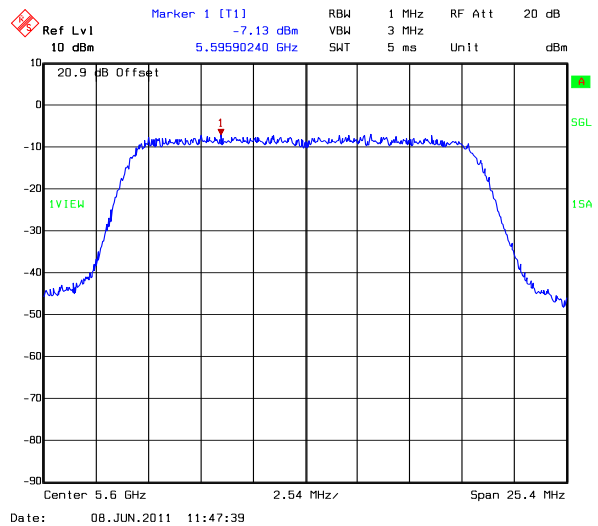
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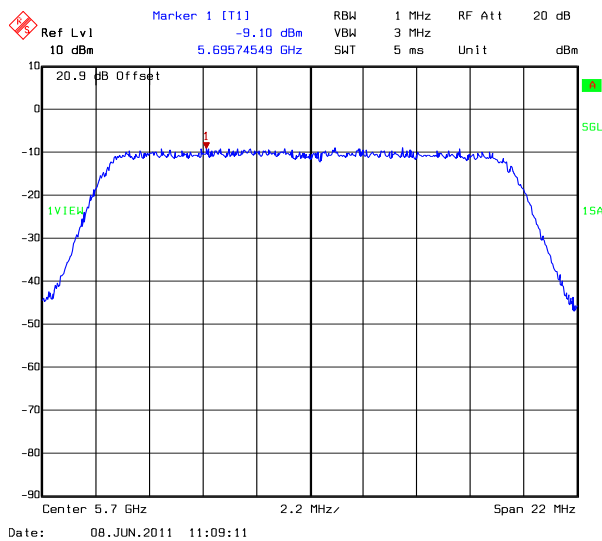
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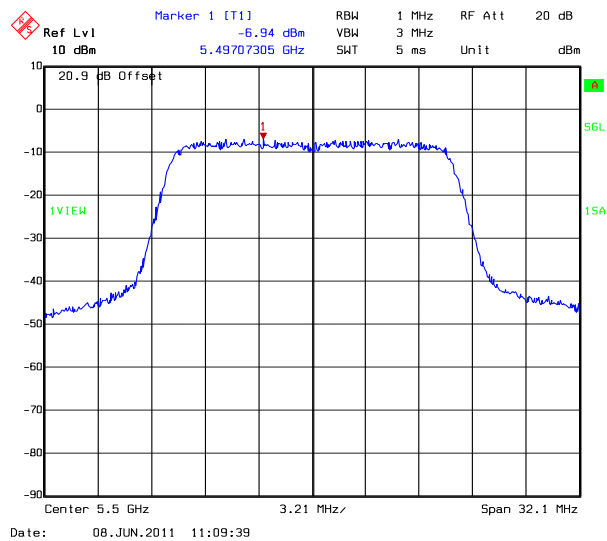
PSD_UNII_3_802_11A_48MBS_BottomChannel



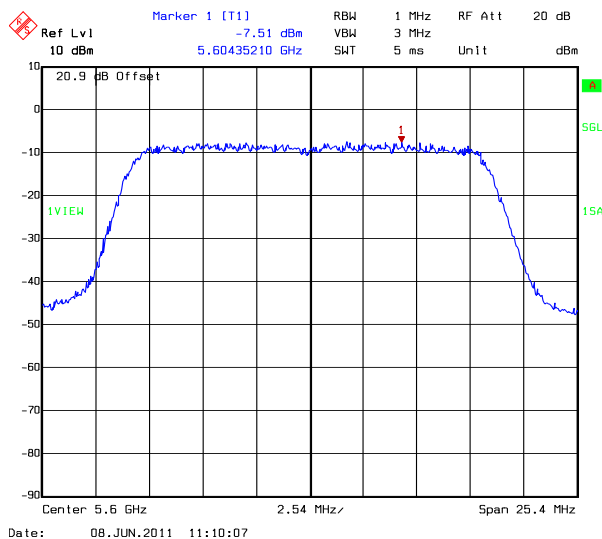
PSD_UNII_3_802_11A_48MBS_MiddleChannel

Transmitter Peak Power Spectral Density (continued)

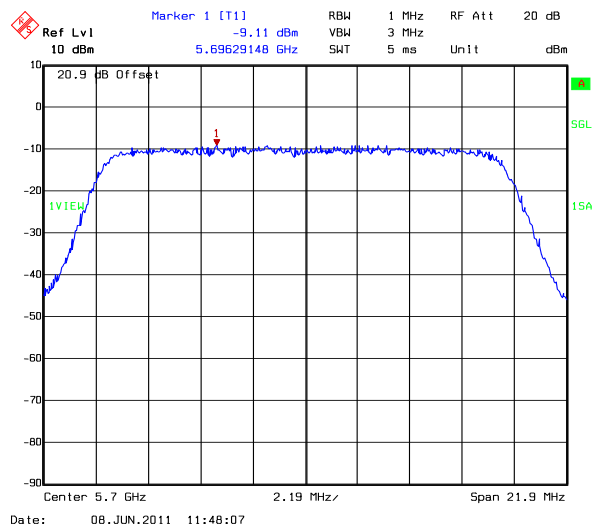
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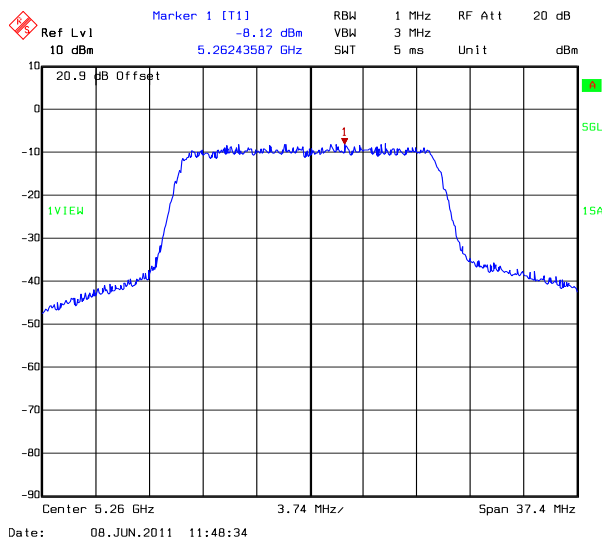
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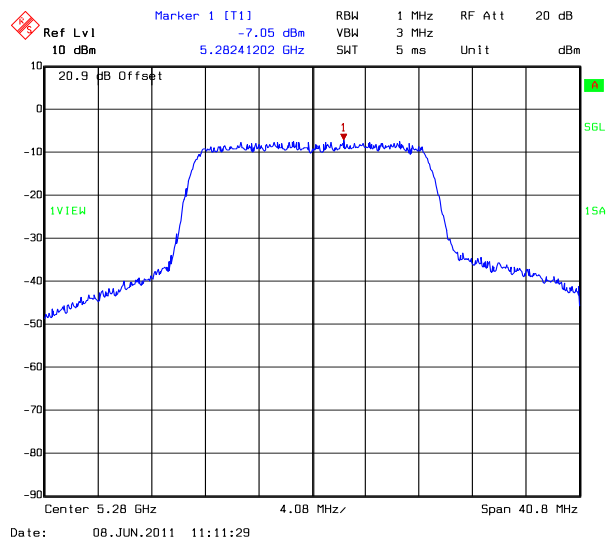
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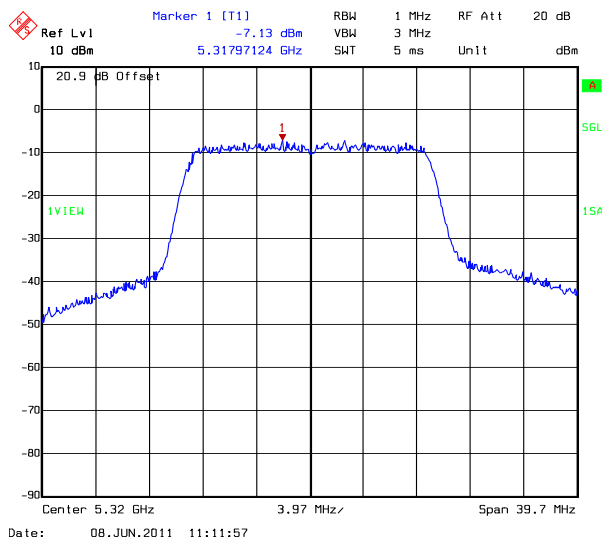
PSD_UNII_3_802_11A_54MBS_TopChannel

Transmitter Peak Power Spectral Density (continued)

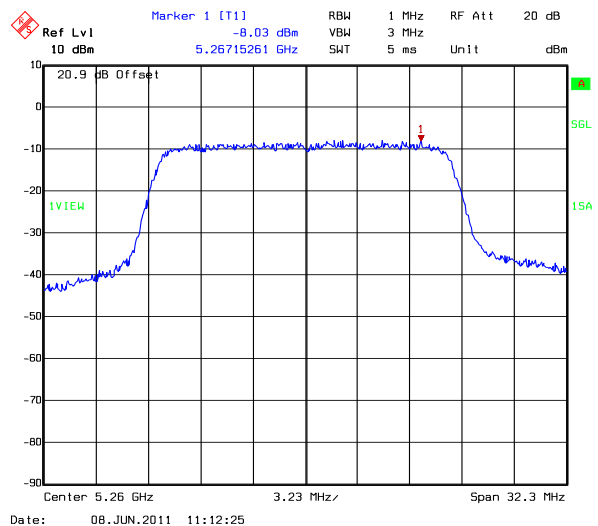
PSD_UNII_2_802_11N_6_5MBS_BottomChannel



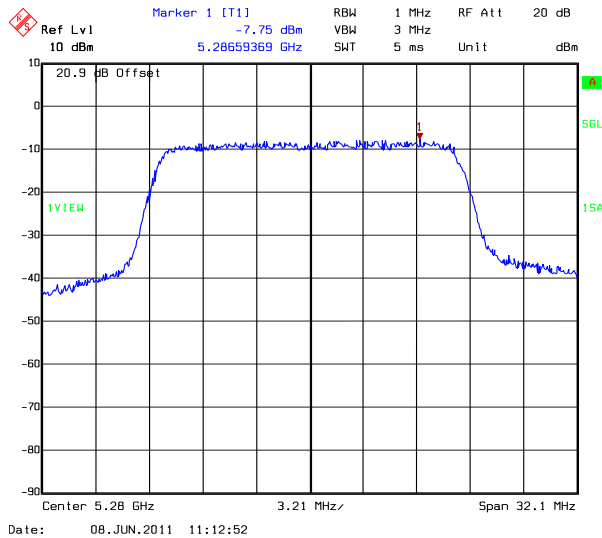
PSD_UNII_2_802_11N_6_5MBS_MiddleChannel



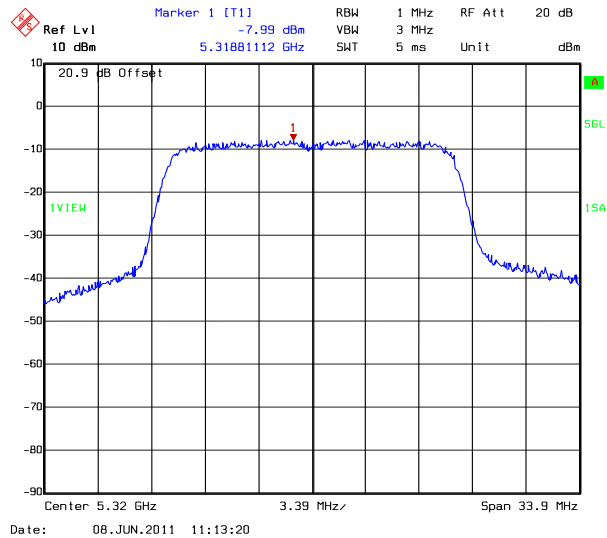
PSD_UNII_2_802_11N_6_5MBS_TopChannel



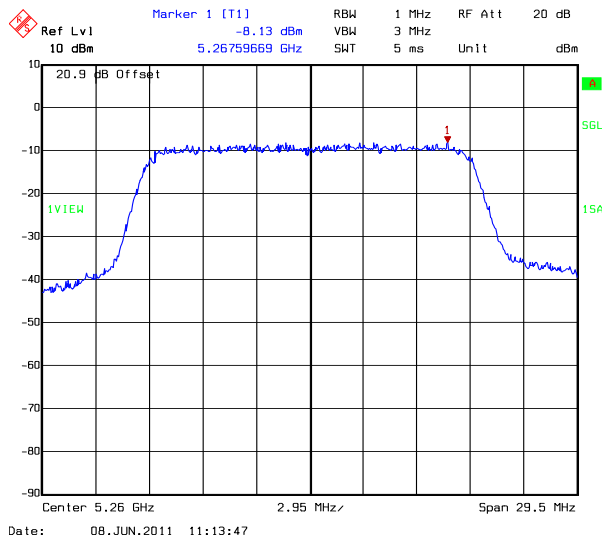
PSD_UNII_2_802_11N_13MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)

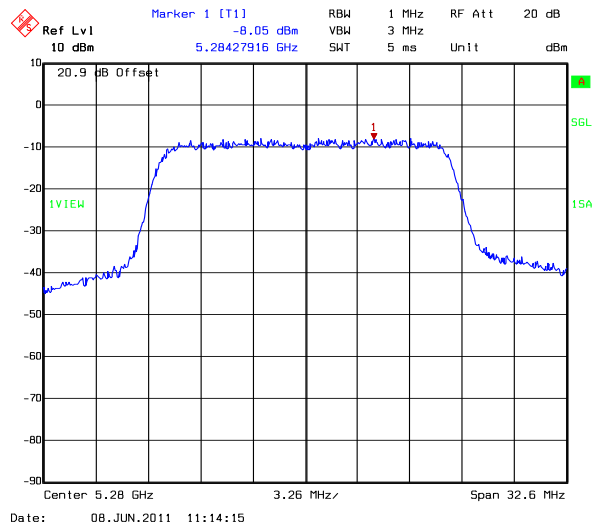
PSD_UNII_2_802_11N_13MBS_MiddleChannel



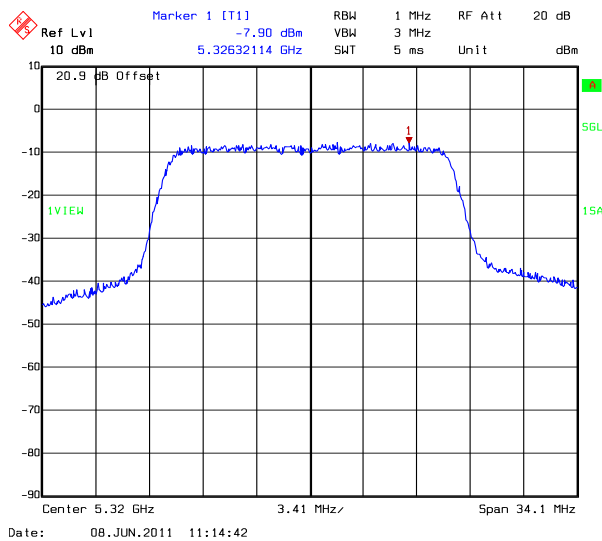
PSD_UNII_2_802_11N_13MBS_TopChannel



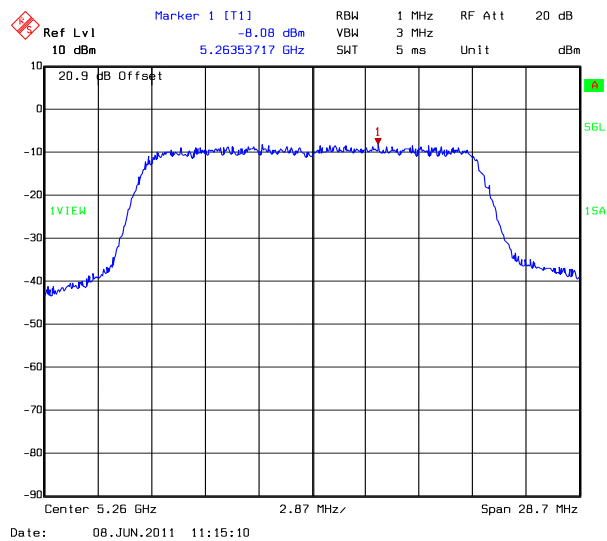
PSD_UNII_2_802_11N_19_5MBS_BottomChannel



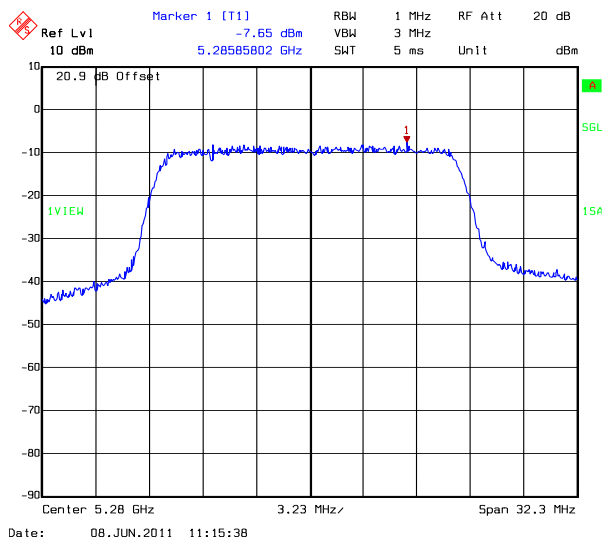
PSD_UNII_2_802_11N_19_5MBS_MiddleChannel

Transmitter Peak Power Spectral Density (continued)

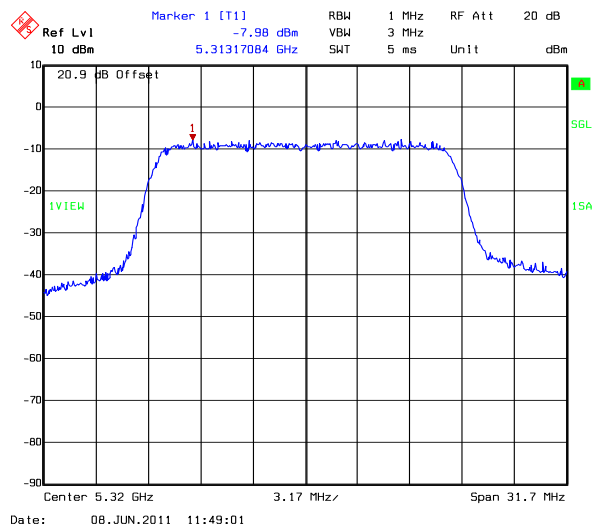
PSD_UNII_2_802_11N_19_5MBS_TopChannel



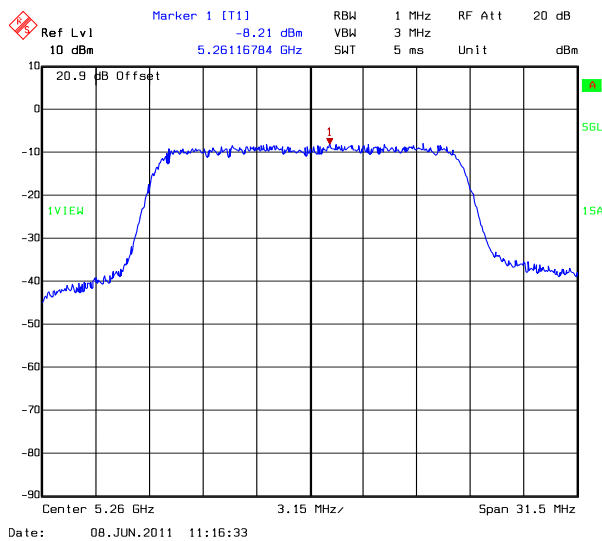
PSD_UNII_2_802_11N_26MBS_BottomChannel



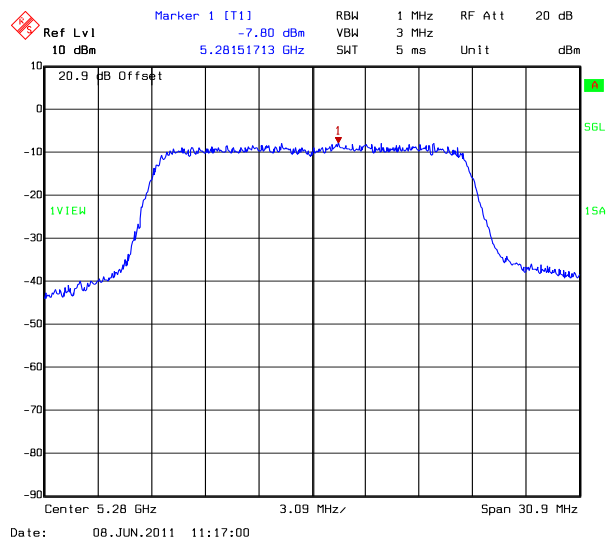
PSD_UNII_2_802_11N_26MBS_MiddleChannel



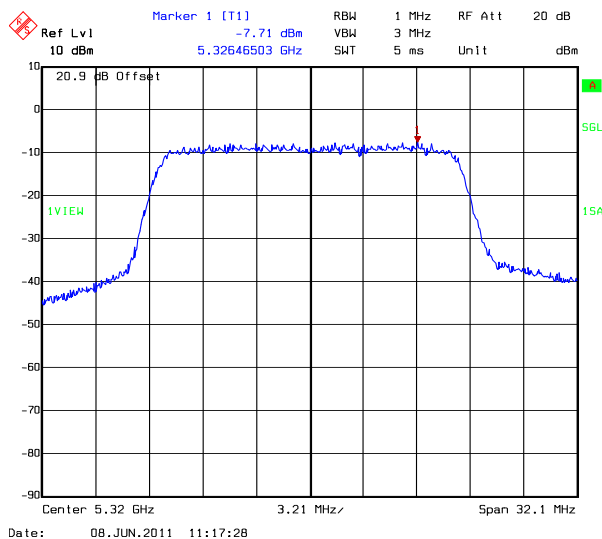
PSD_UNII_2_802_11N_26MBS_TopChannel

Transmitter Peak Power Spectral Density (continued)

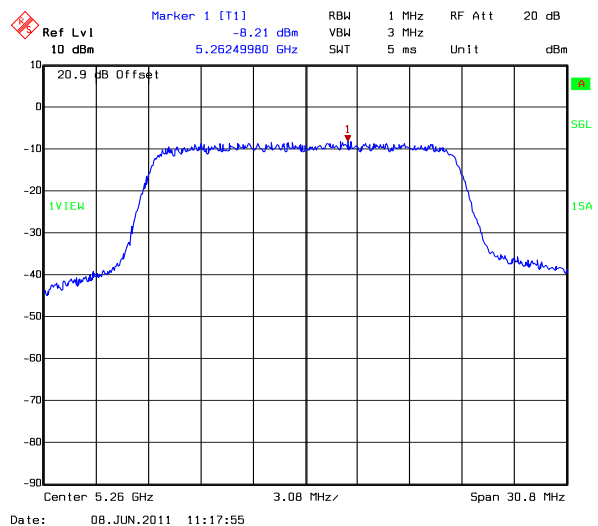
PSD_UNII_2_802_11N_39MBS_BottomChannel



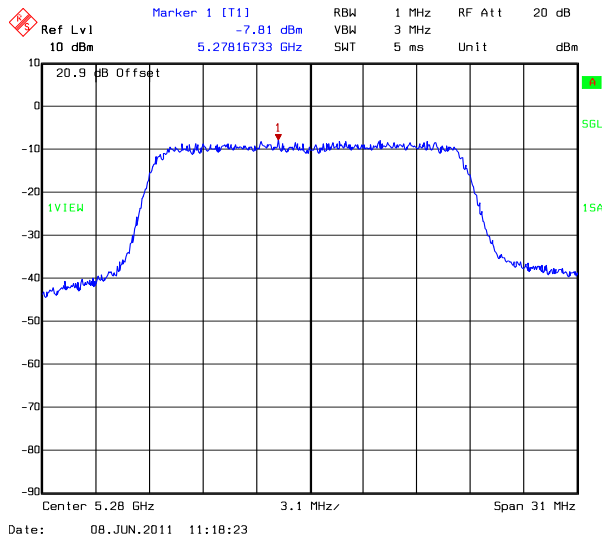
PSD_UNII_2_802_11N_39MBS_MiddleChannel



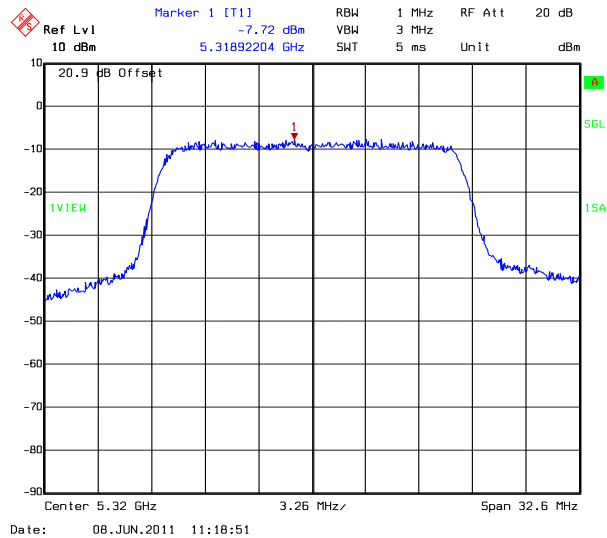
PSD_UNII_2_802_11N_39MBS_TopChannel



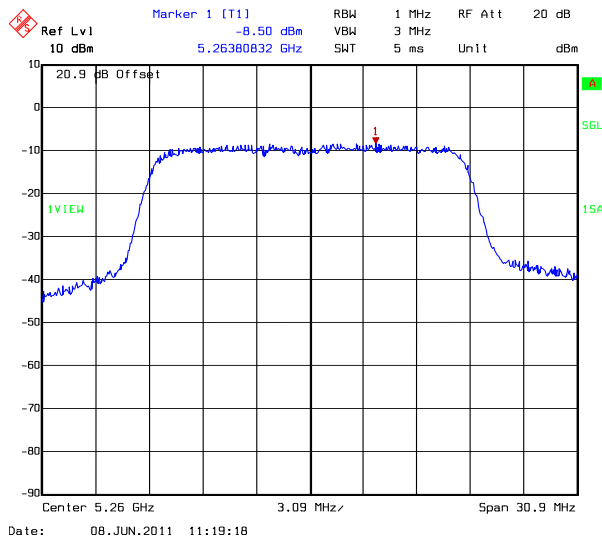
PSD_UNII_2_802_11N_52MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)

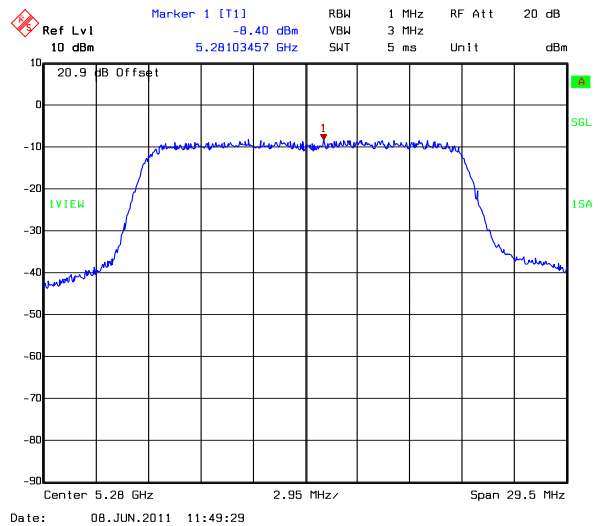
PSD_UNII_2_802_11N_52MBS_MiddleChannel



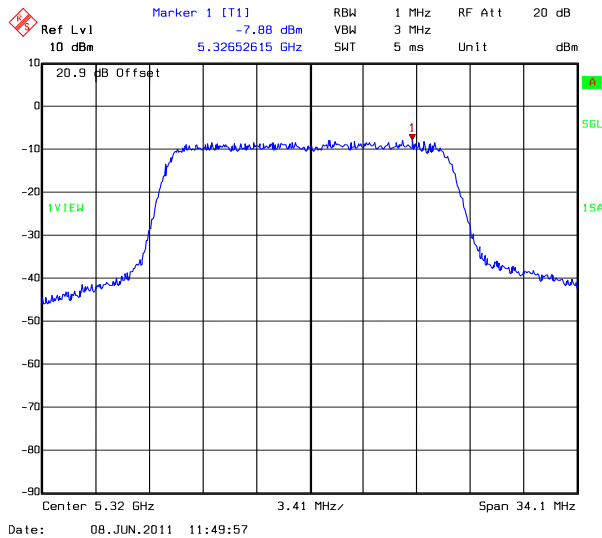
PSD_UNII_2_802_11N_52MBS_TopChannel



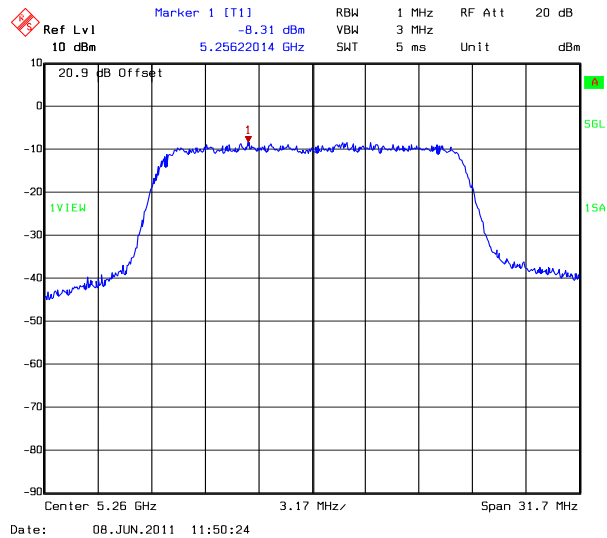
PSD_UNII_2_802_11N_58_5MBS_BottomChannel



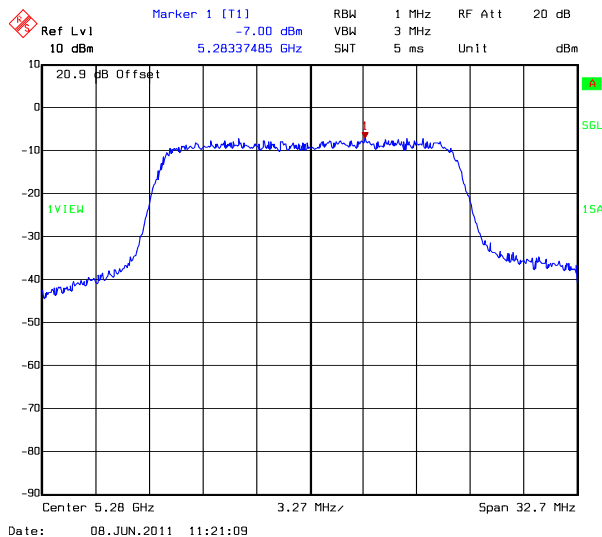
PSD_UNII_2_802_11N_58_5MBS_MiddleChannel

Transmitter Peak Power Spectral Density (continued)

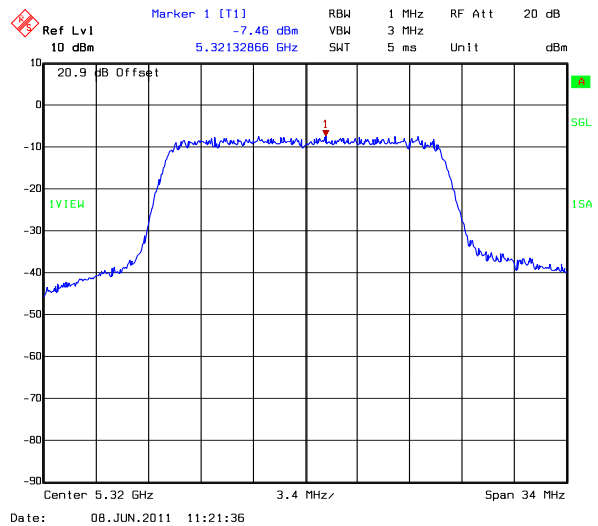
PSD_UNII_2_802_11N_58_5MBS_TopChannel



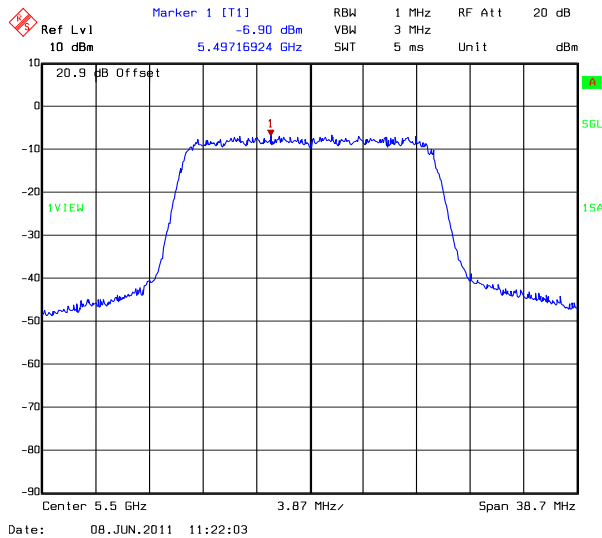
PSD_UNII_2_802_11N_65MBS_BottomChannel



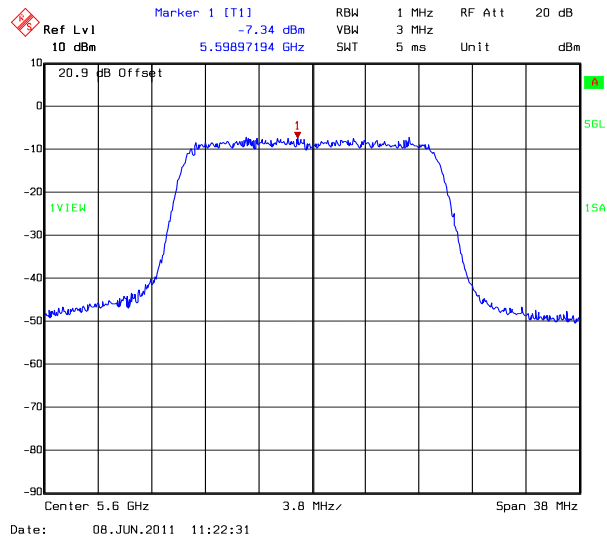
PSD_UNII_2_802_11N_65MBS_MiddleChannel



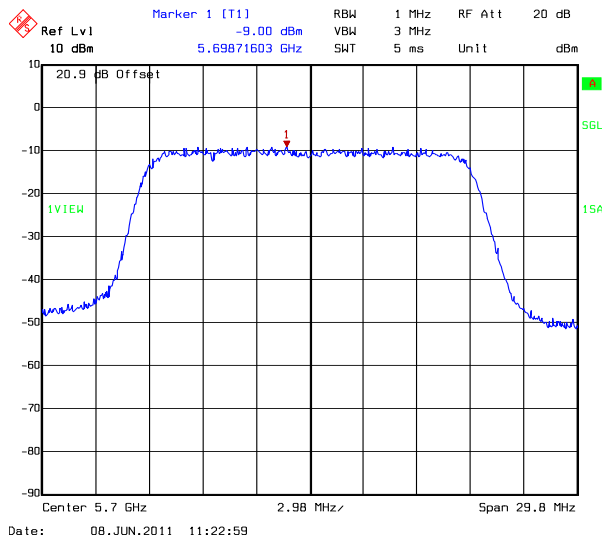
PSD_UNII_2_802_11N_65MBS_TopChannel

Transmitter Peak Power Spectral Density (continued)

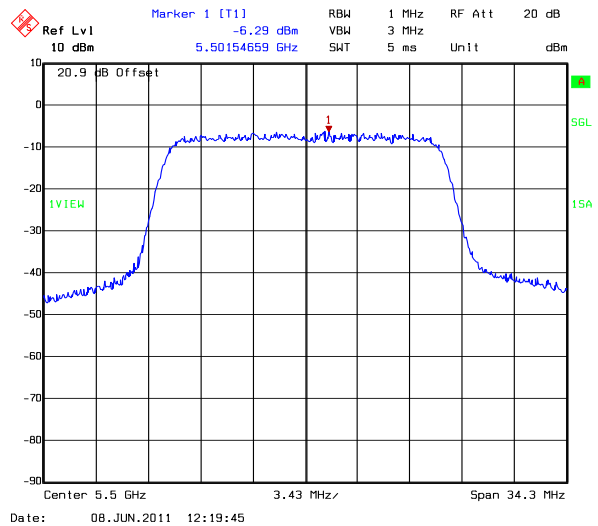
PSD_UNII_3_802_11N_6_5MBS_BottomChannel



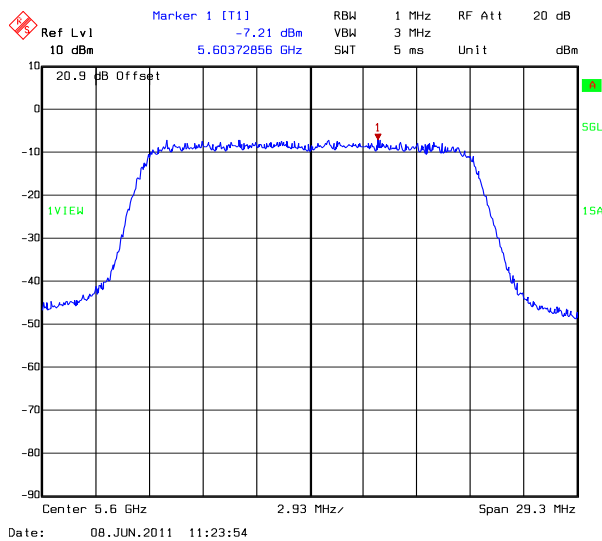
PSD_UNII_3_802_11N_6_5MBS_MiddleChannel



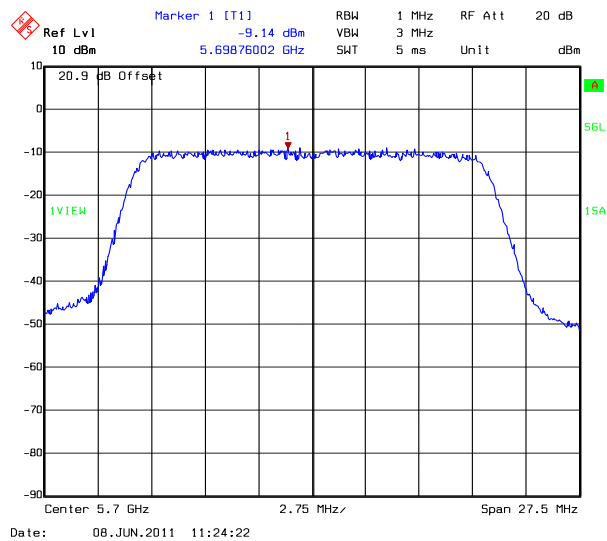
PSD_UNII_3_802_11N_6_5MBS_TopChannel



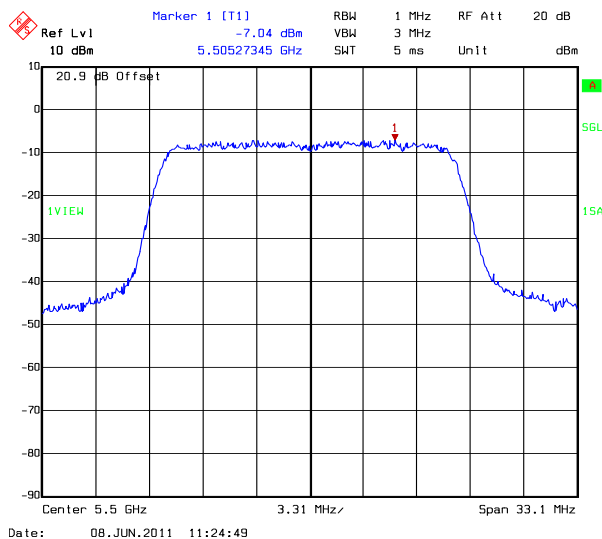
PSD_UNII_3_802_11N_13MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)

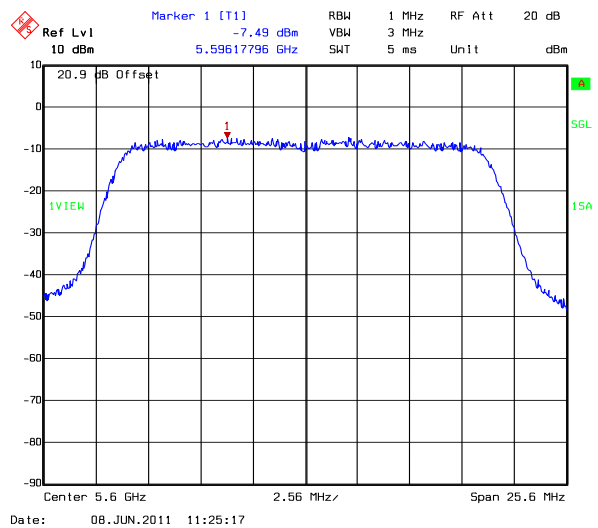
PSD_UNII_3_802_11N_13MBS_MiddleChannel



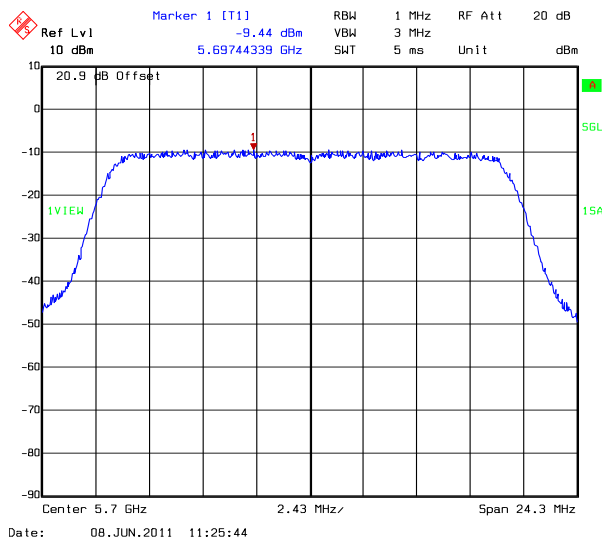
PSD_UNII_3_802_11N_13MBS_TopChannel



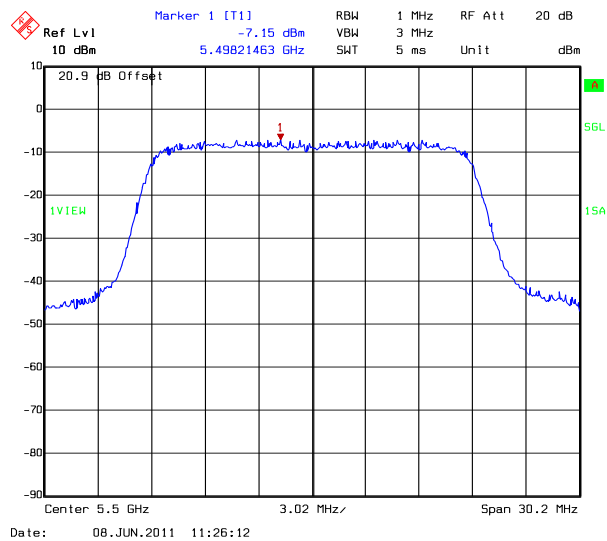
PSD_UNII_3_802_11N_19_5MBS_BottomChannel



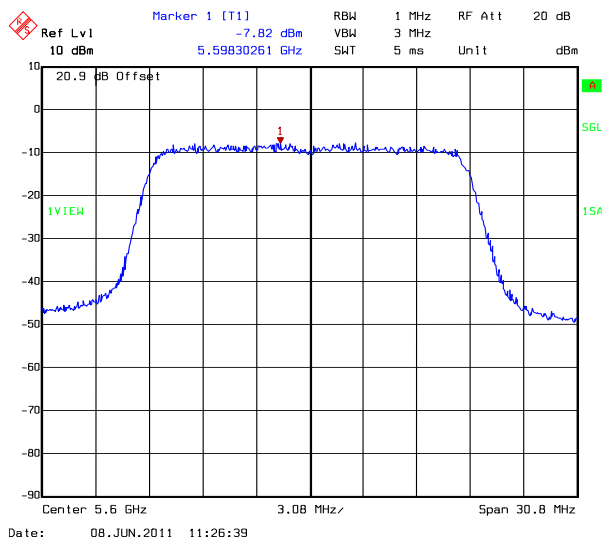
PSD_UNII_3_802_11N_19_5MBS_MiddleChannel

Transmitter Peak Power Spectral Density (continued)

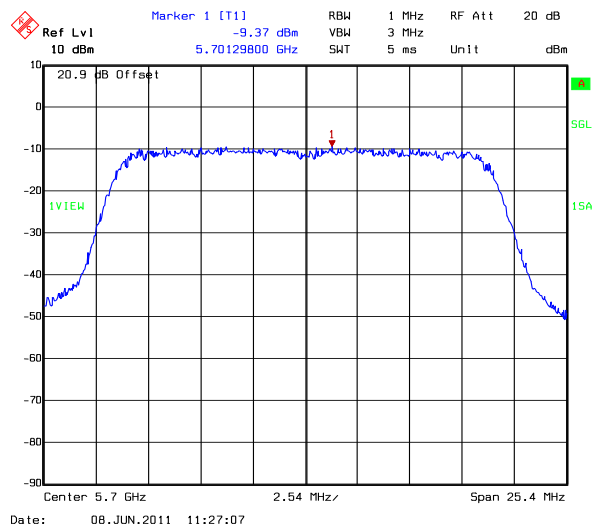
PSD_UNII_3_802_11N_19_5MBS_TopChannel



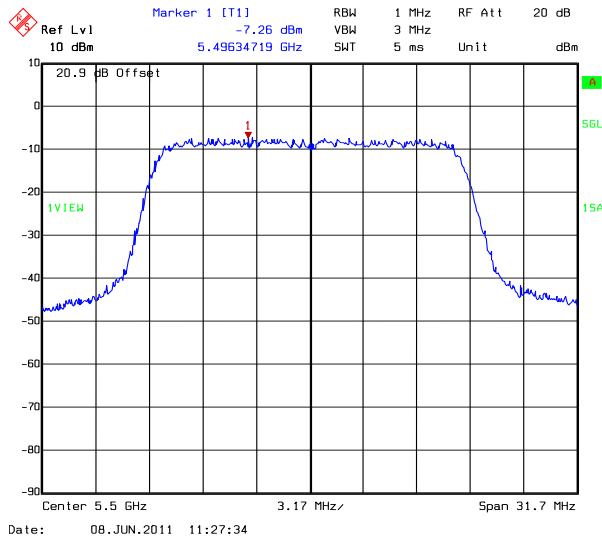
PSD_UNII_3_802_11N_26MBS_BottomChannel



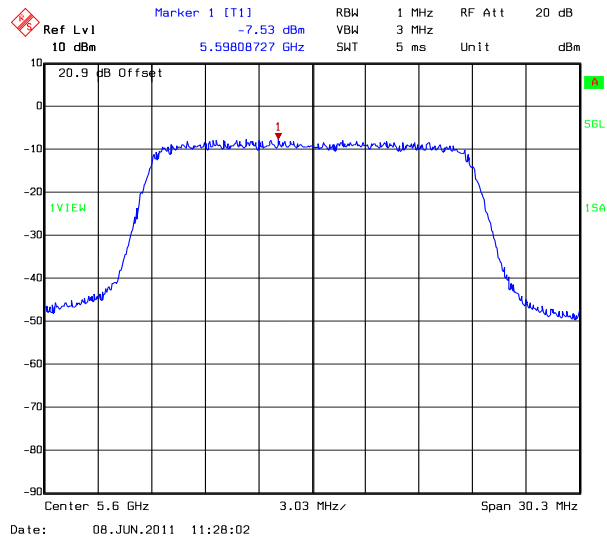
PSD_UNII_3_802_11N_26MBS_MiddleChannel



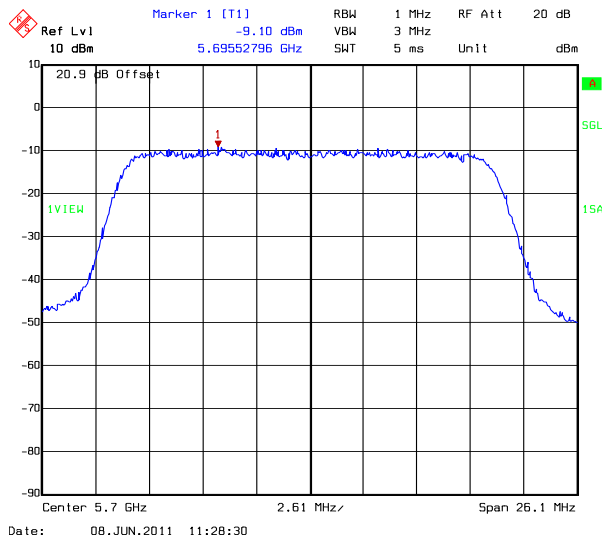
PSD_UNII_3_802_11N_26MBS_TopChannel

Transmitter Peak Power Spectral Density (continued)

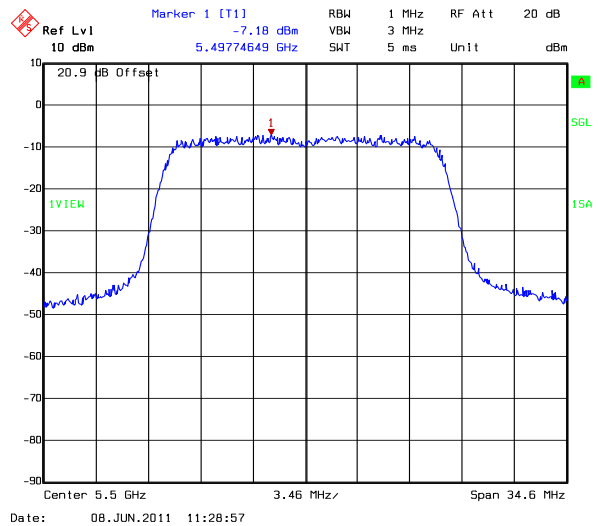
PSD_UNII_3_802_11N_39MBS_BottomChannel



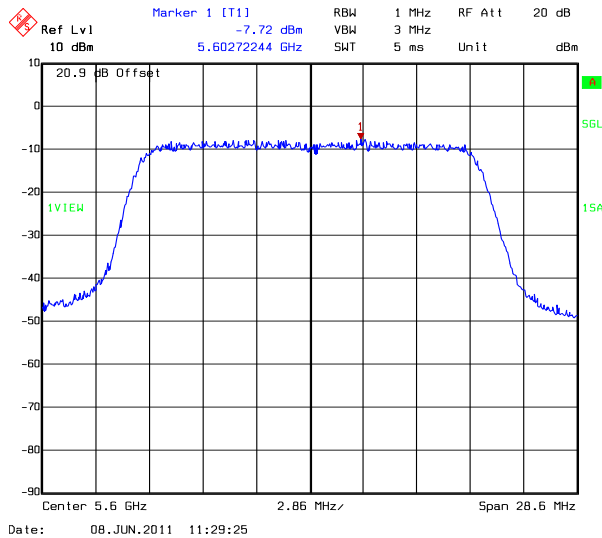
PSD_UNII_3_802_11N_39MBS_MiddleChannel



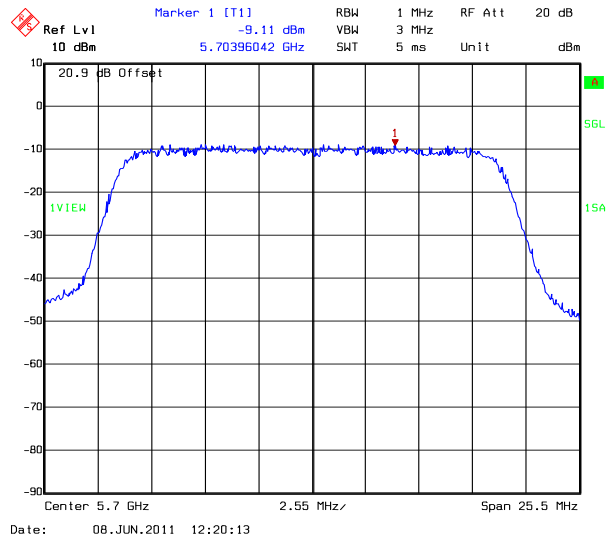
PSD_UNII_3_802_11N_39MBS_TopChannel



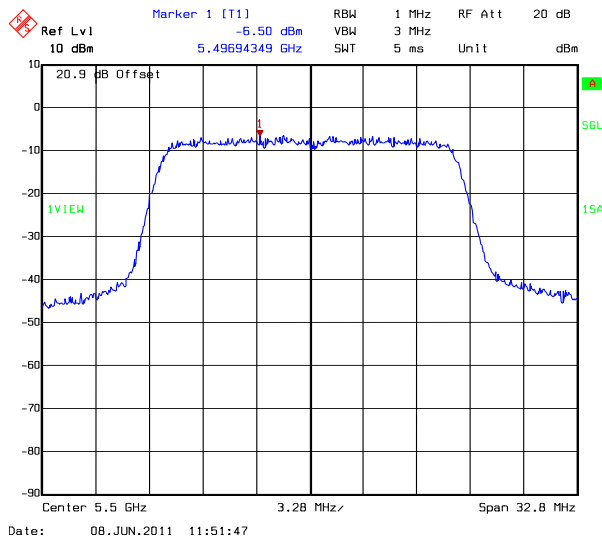
PSD_UNII_3_802_11N_52MBS_BottomChannel

Transmitter Peak Power Spectral Density (continued)

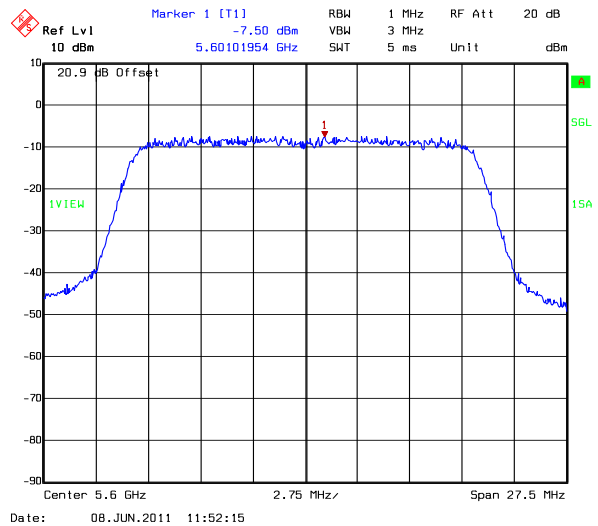
PSD_UNII_3_802_11N_52MBS_MiddleChannel



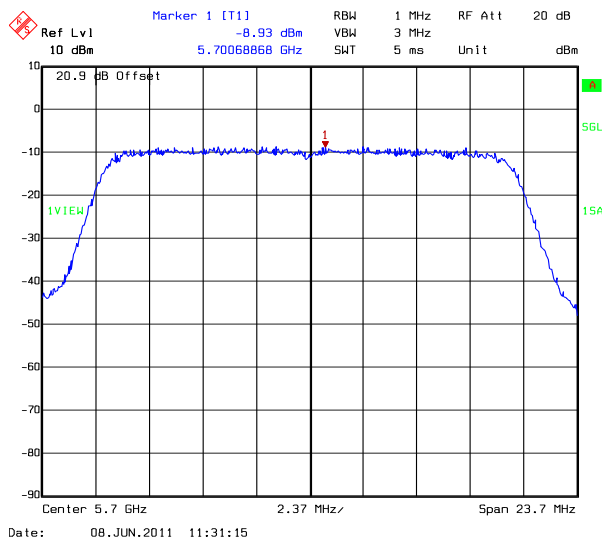
PSD_UNII_3_802_11N_52MBS_TopChannel



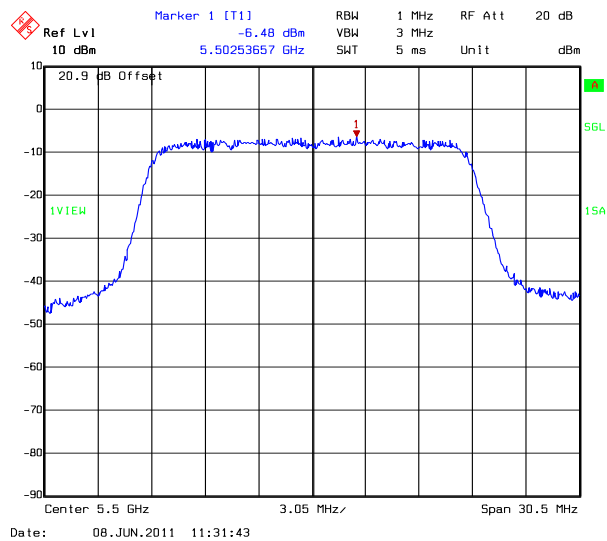
PSD_UNII_3_802_11N_58_5MBS_BottomChannel



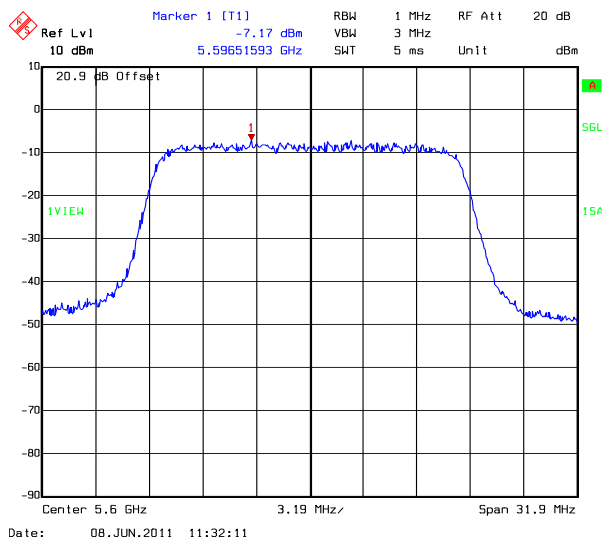
PSD_UNII_3_802_11N_58_5MBS_MiddleChannel

Transmitter Peak Power Spectral Density (continued)

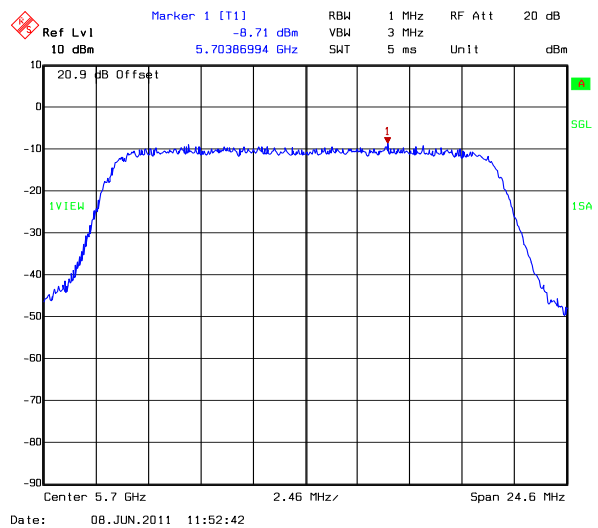
PSD_UNII_3_802_11N_58_5MBS_TopChannel



PSD_UNII_3_802_11N_65MBS_BottomChannel



PSD_UNII_3_802_11N_65MBS_MiddleChannel



PSD_UNII_3_802_11N_65MBS_TopChannel

5.2.9. Transmitter Peak Excursion**Test Summary:**

Test Engineer:	David Lakeland	Test Date:	07 June 2011 & 08 June 2011
Test Sample Serial No:	ID 3		

FCC Part:	15.407(a)
Test Method Used:	As detailed in ANSI C63.10 Section 6.10.4

Environmental Conditions:

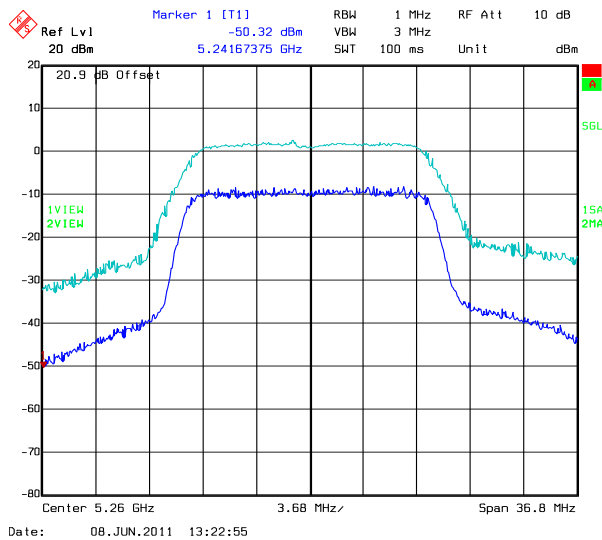
Temperature (°C):	23
Relative Humidity (%):	28

Transmitter Peak Excursion (continued)**Result**

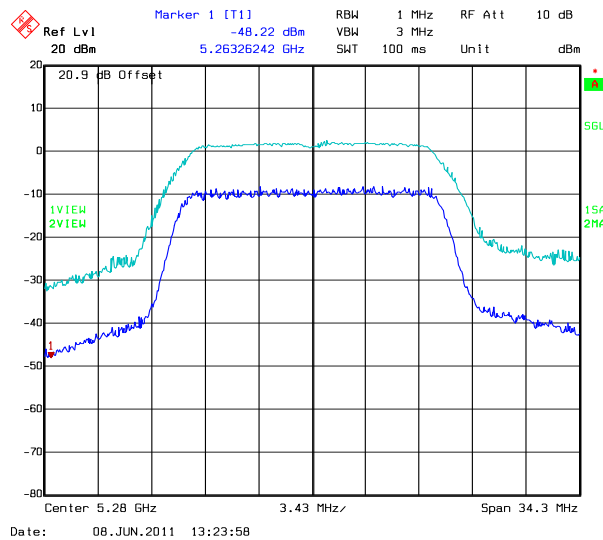
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak Excursion (dB)	Limit (dB)	Result
Bottom	5260	BPSK	6	8.5	13	Complied
Middle	5280	BPSK	6	8.8	13	Complied
Top	5320	BPSK	6	8.8	13	Complied
Bottom	5260	BPSK	9	8.8	13	Complied
Middle	5280	BPSK	9	8.7	13	Complied
Top	5320	BPSK	9	8.8	13	Complied
Bottom	5260	QPSK	12	8.7	13	Complied
Middle	5280	QPSK	12	8.7	13	Complied
Top	5320	QPSK	12	8.7	13	Complied
Bottom	5260	QPSK	18	8.7	13	Complied
Middle	5280	QPSK	18	8.7	13	Complied
Top	5320	QPSK	18	8.7	13	Complied
Bottom	5260	16QAM	24	8.7	13	Complied
Middle	5280	16QAM	24	8.7	13	Complied
Top	5320	16QAM	24	8.7	13	Complied
Bottom	5260	16QAM	36	8.7	13	Complied
Middle	5280	16QAM	36	8.7	13	Complied
Top	5320	16QAM	36	8.7	13	Complied
Bottom	5260	64QAM	48	8.7	13	Complied
Middle	5280	64QAM	48	8.7	13	Complied
Top	5320	64QAM	48	8.7	13	Complied
Bottom	5260	64QAM	54	8.7	13	Complied
Middle	5280	64QAM	54	8.7	13	Complied
Top	5320	64QAM	54	8.7	13	Complied
Bottom	5500	BPSK	6	8.7	13	Complied
Middle	5600	BPSK	6	8.7	13	Complied
Top	5700	BPSK	6	8.7	13	Complied
Bottom	5500	BPSK	9	8.7	13	Complied
Middle	5600	BPSK	9	8.7	13	Complied
Top	5700	BPSK	9	8.7	13	Complied
Bottom	5500	QPSK	12	8.7	13	Complied
Middle	5600	QPSK	12	8.7	13	Complied

Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak Excursion (dB)	Limit (dB)	Result
Top	5700	QPSK	12	8.7	13	Complied
Bottom	5500	QPSK	18	8.7	13	Complied
Middle	5600	QPSK	18	8.7	13	Complied
Top	5700	QPSK	18	8.7	13	Complied
Bottom	5500	16QAM	24	8.7	13	Complied
Middle	5600	16QAM	24	8.7	13	Complied
Top	5700	16QAM	24	8.7	13	Complied
Bottom	5500	16QAM	36	8.7	13	Complied
Middle	5600	16QAM	36	8.7	13	Complied
Top	5700	16QAM	36	8.7	13	Complied
Bottom	5500	64QAM	48	8.7	13	Complied
Middle	5600	64QAM	48	8.7	13	Complied
Top	5700	64QAM	48	8.7	13	Complied
Bottom	5500	64QAM	54	8.7	13	Complied
Middle	5600	64QAM	54	8.7	13	Complied
Top	5700	64QAM	54	8.7	13	Complied
Bottom	5260	BPSK	6.5	8.7	13	Complied
Middle	5280	BPSK	6.5	8.6	13	Complied
Top	5320	BPSK	6.5	8.6	13	Complied
Bottom	5260	QPSK	13	8.6	13	Complied
Middle	5280	QPSK	13	8.6	13	Complied
Top	5320	QPSK	13	8.6	13	Complied
Bottom	5260	QPSK	19.5	8.6	13	Complied
Middle	5280	QPSK	19.5	8.6	13	Complied
Top	5320	QPSK	19.5	8.6	13	Complied
Bottom	5260	16QAM	26	8.6	13	Complied
Middle	5280	16QAM	26	8.6	13	Complied
Top	5320	16QAM	26	8.6	13	Complied
Bottom	5260	16QAM	39	8.6	13	Complied
Middle	5280	16QAM	39	8.6	13	Complied
Top	5320	16QAM	39	8.6	13	Complied
Bottom	5260	64QAM	52	8.6	13	Complied
Middle	5280	64QAM	52	8.6	13	Complied
Top	5320	64QAM	52	8.6	13	Complied

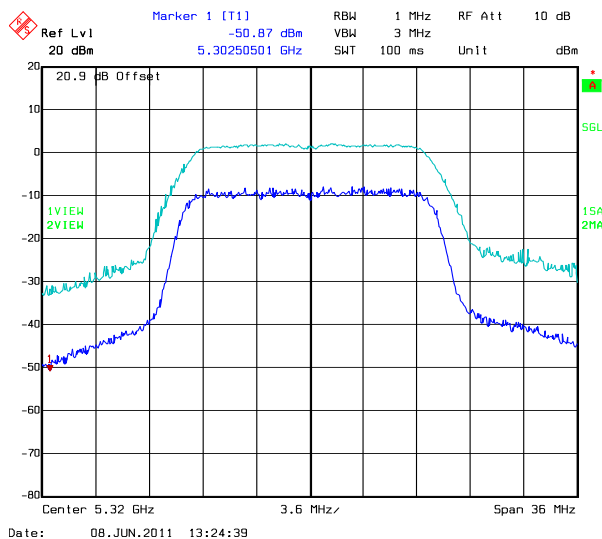
Channel	Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak Excursion (dB)	Limit (dB)	Result
Bottom	5260	64QAM	58.5	8.6	13	Complied
Middle	5280	64QAM	58.5	8.6	13	Complied
Top	5320	64QAM	58.5	8.6	13	Complied
Bottom	5260	64QAM	65	8.6	13	Complied
Middle	5280	64QAM	65	8.6	13	Complied
Top	5320	64QAM	65	8.6	13	Complied
Bottom	5500	BPSK	6.5	8.6	13	Complied
Middle	5600	BPSK	6.5	8.6	13	Complied
Top	5700	BPSK	6.5	8.6	13	Complied
Bottom	5500	QPSK	13	8.6	13	Complied
Middle	5600	QPSK	13	8.6	13	Complied
Top	5700	QPSK	13	8.6	13	Complied
Bottom	5500	QPSK	19.5	8.6	13	Complied
Middle	5600	QPSK	19.5	8.6	13	Complied
Top	5700	QPSK	19.5	8.6	13	Complied
Bottom	5500	16QAM	26	8.6	13	Complied
Middle	5600	16QAM	26	8.6	13	Complied
Top	5700	16QAM	26	8.6	13	Complied
Bottom	5500	16QAM	39	8.6	13	Complied
Middle	5600	16QAM	39	8.6	13	Complied
Top	5700	16QAM	39	8.6	13	Complied
Bottom	5500	64QAM	52	8.6	13	Complied
Middle	5600	64QAM	52	8.5	13	Complied
Top	5700	64QAM	52	8.5	13	Complied
Bottom	5500	64QAM	58.5	8.5	13	Complied
Middle	5600	64QAM	58.5	8.5	13	Complied
Top	5700	64QAM	58.5	8.5	13	Complied
Bottom	5500	64QAM	65	8.5	13	Complied
Middle	5600	64QAM	65	8.5	13	Complied
Top	5700	64QAM	65	8.5	13	Complied

Transmitter Peak Excursion (continued)

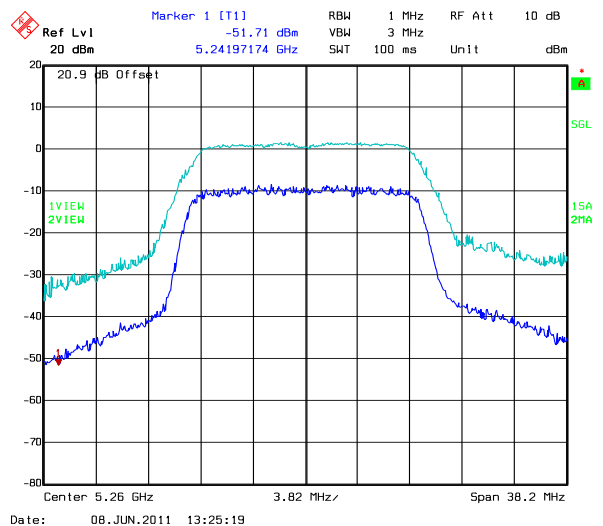
PeakExcursion_UNII_2_802_11A_6MBS_BottomChannel



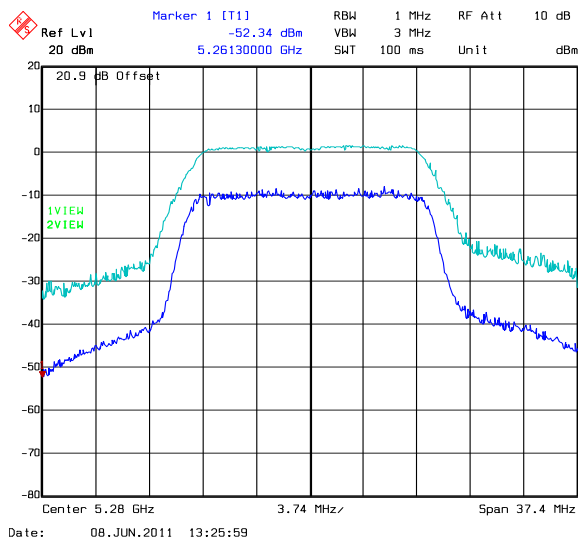
PeakExcursion_UNII_2_802_11A_6MBS_MiddleChannel



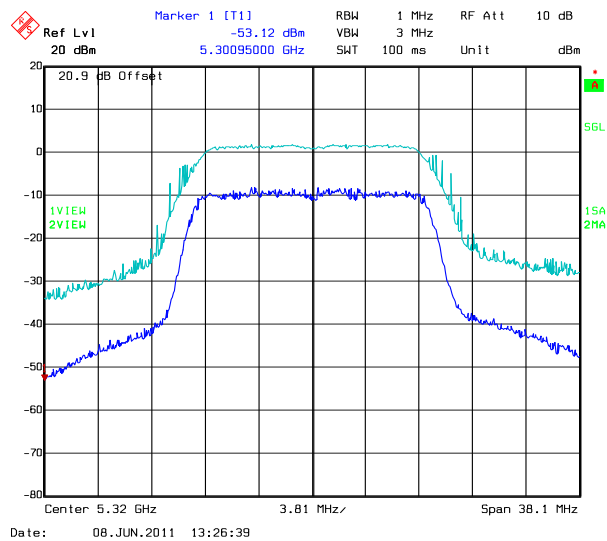
PeakExcursion_UNII_2_802_11A_6MBS_TopChannel



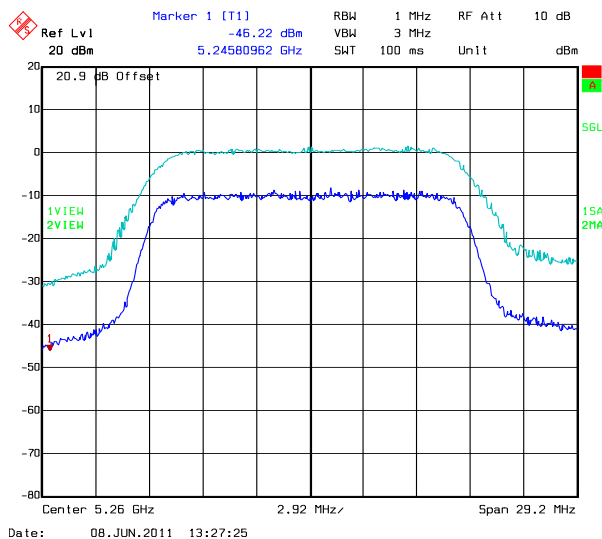
PeakExcursion_UNII_2_802_11A_9MBS_BottomChannel

Transmitter Peak Excursion (continued)

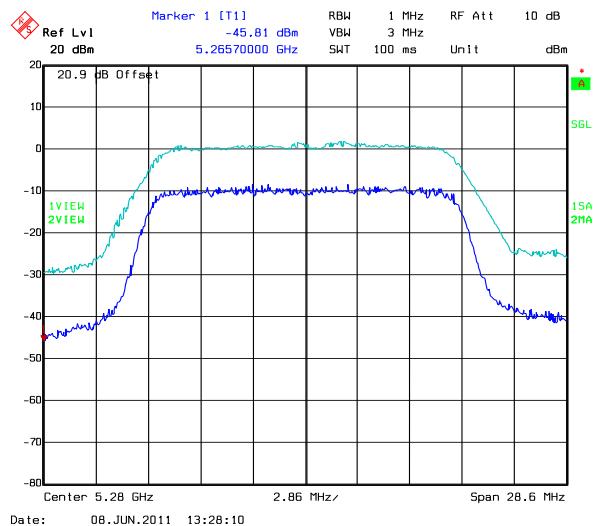
PeakExcursion_UNII_2_802_11A_9MBS_MiddleChannel



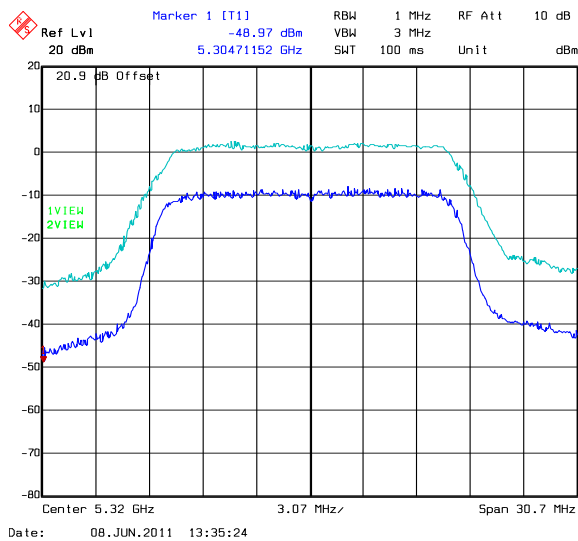
PeakExcursion_UNII_2_802_11A_9MBS_TopChannel



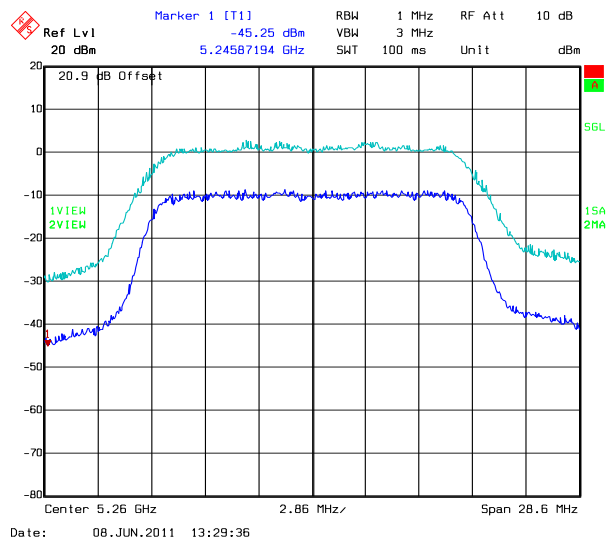
PeakExcursion_UNII_2_802_11A_12MBS_BottomChannel



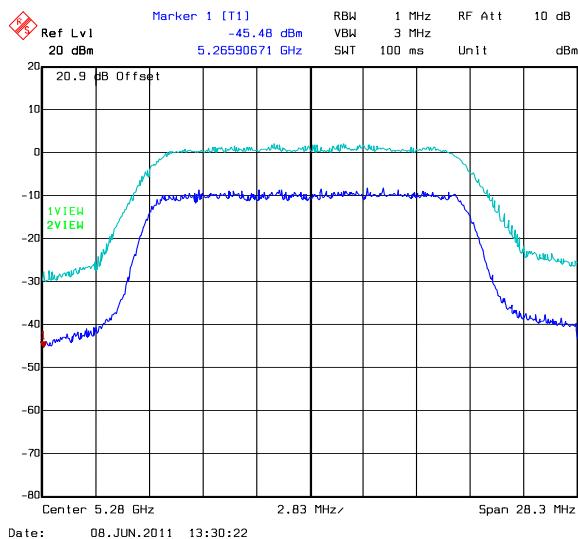
PeakExcursion_UNII_2_802_11A_12MBS_MiddleChannel

Transmitter Peak Excursion (continued)

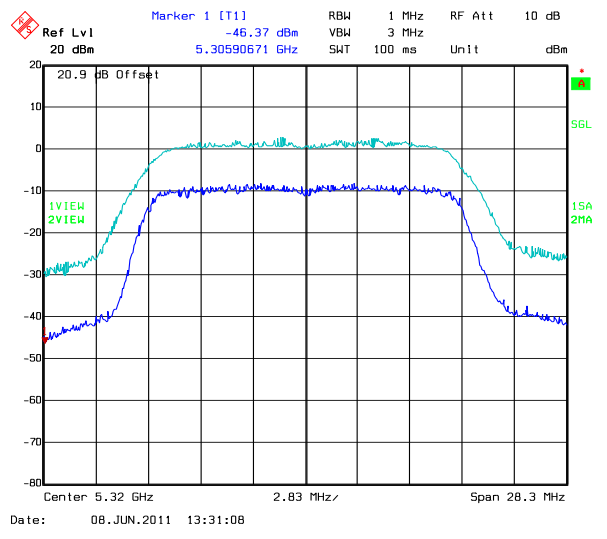
PeakExcursion_UNII_2_802_11A_12MBS_TopChannel



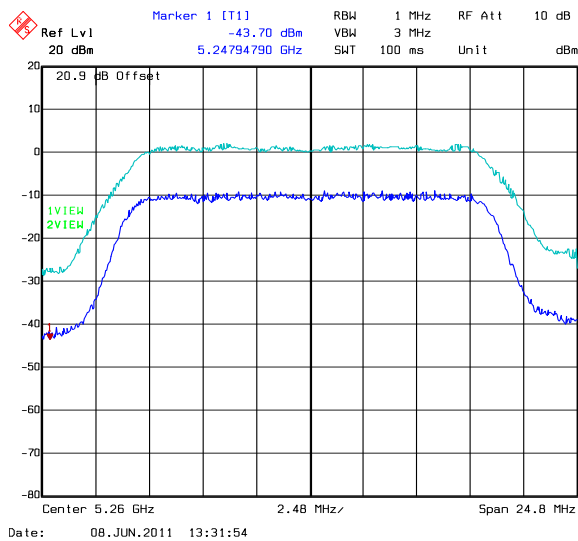
PeakExcursion_UNII_2_802_11A_18MBS_BottomChannel



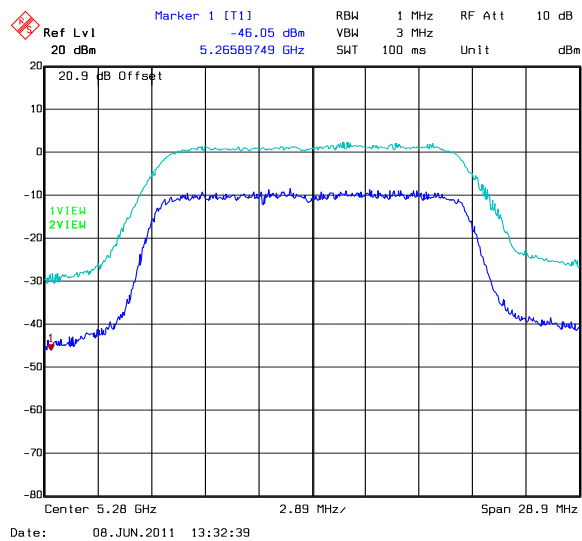
PeakExcursion_UNII_2_802_11A_18MBS_MiddleChannel



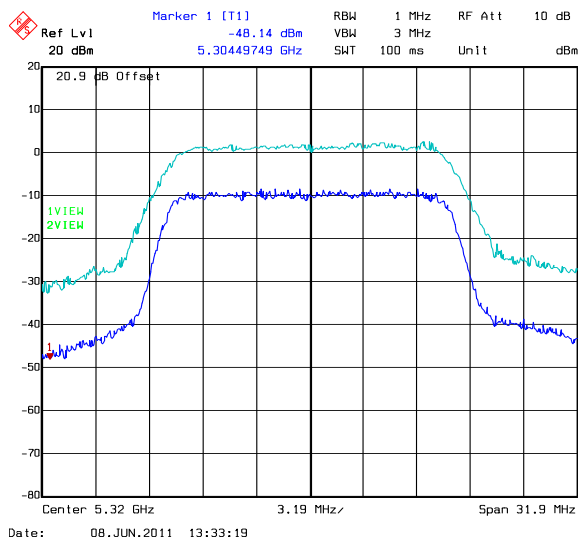
PeakExcursion_UNII_2_802_11A_18MBS_TopChannel

Transmitter Peak Excursion (continued)

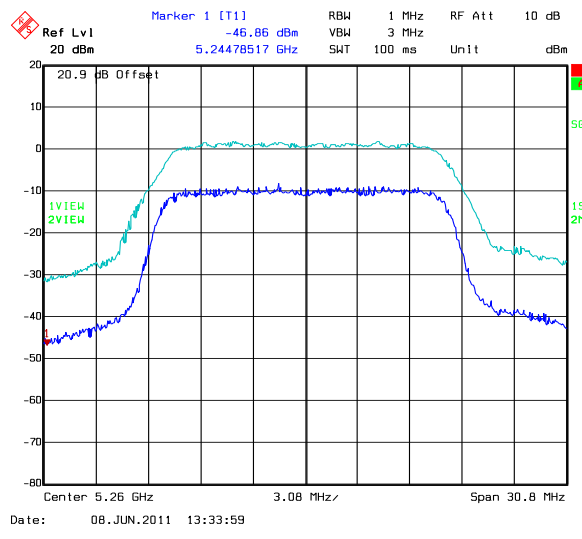
PeakExcursion_UNII_2_802_11A_24MBS_BottomChannel



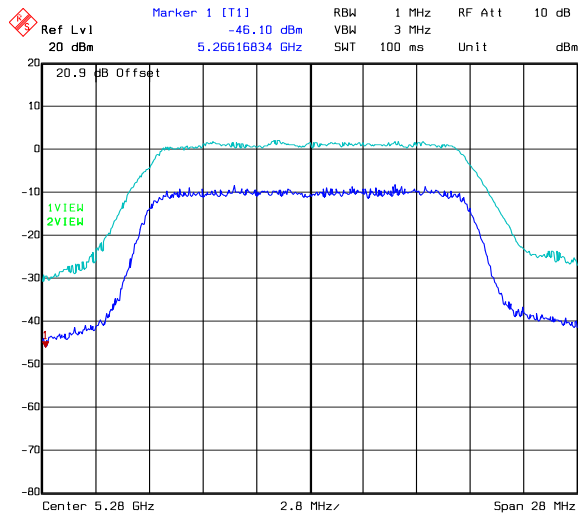
PeakExcursion_UNII_2_802_11A_24MBS_MiddleChannel



PeakExcursion_UNII_2_802_11A_24MBS_TopChannel

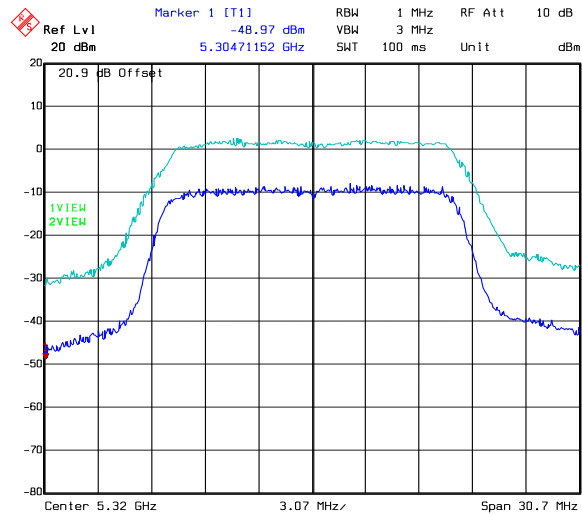


PeakExcursion_UNII_2_802_11A_36MBS_BottomChannel

Transmitter Peak Excursion (continued)

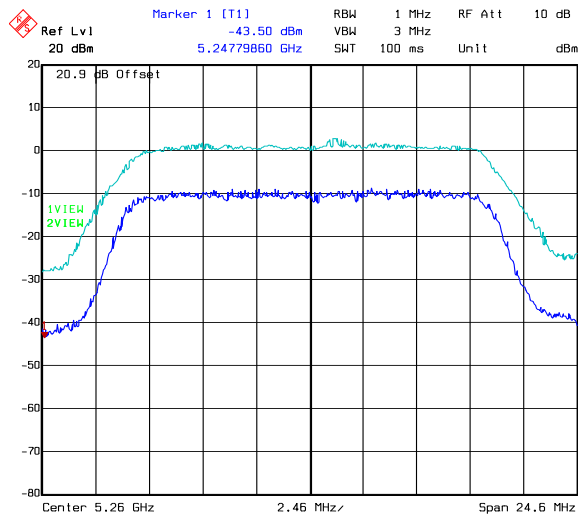
Date: 08.JUN.2011 13:34:44

PeakExcursion_UNII_2_802_11A_36MBS_MiddleChannel



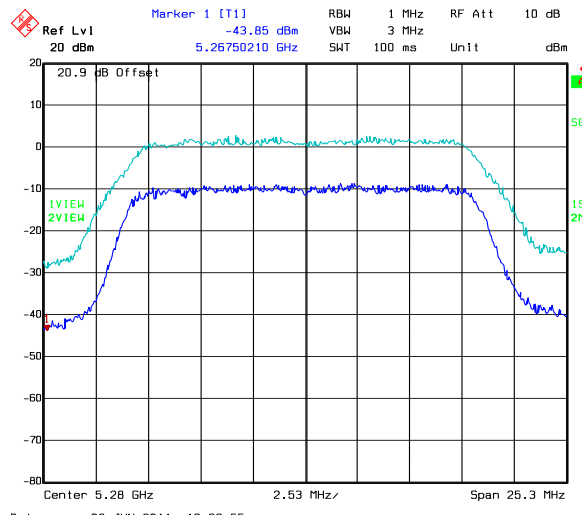
Date: 08.JUN.2011 13:35:24

PeakExcursion_UNII_2_802_11A_36MBS_TopChannel



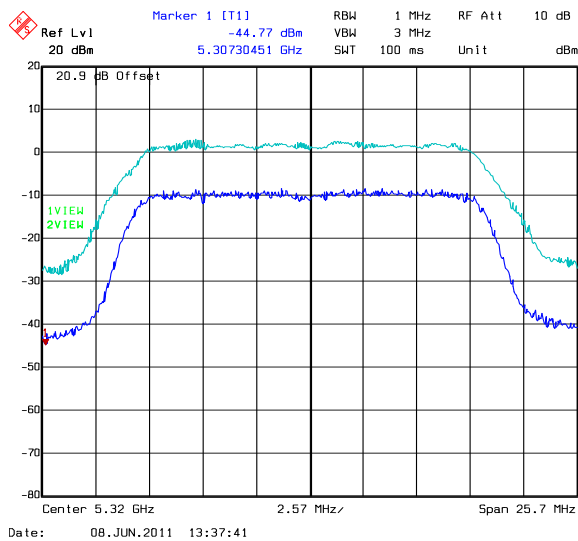
Date: 08.JUN.2011 13:36:10

PeakExcursion_UNII_2_802_11A_48MBS_BottomChannel

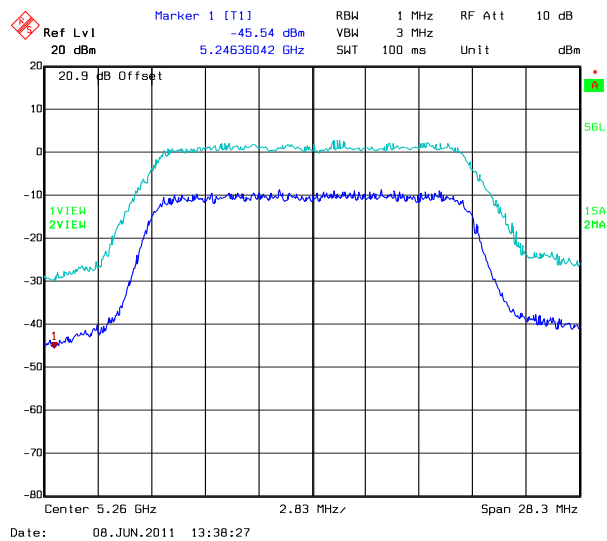


Date: 08.JUN.2011 13:36:55

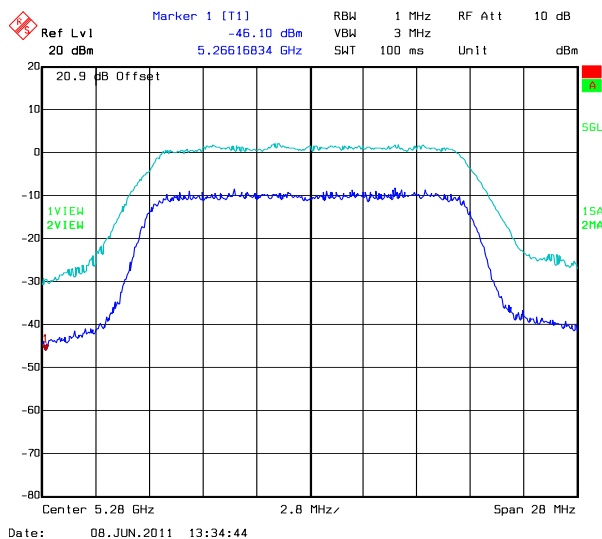
PeakExcursion_UNII_2_802_11A_48MBS_MiddleChannel

Transmitter Peak Excursion (continued)

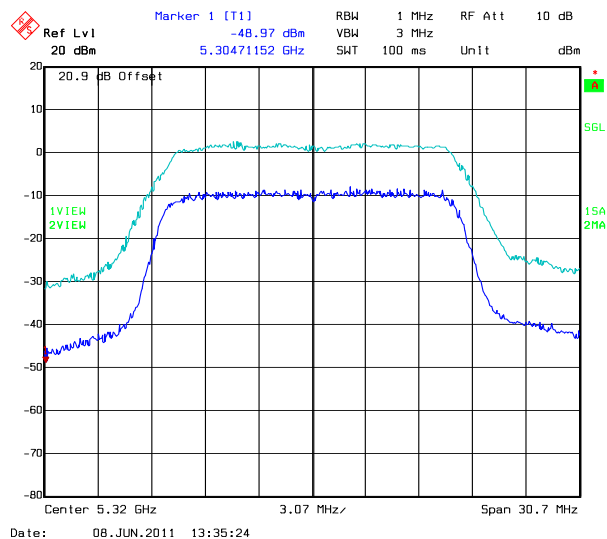
PeakExcursion_UNII_2_802_11A_48MBS_TopChannel



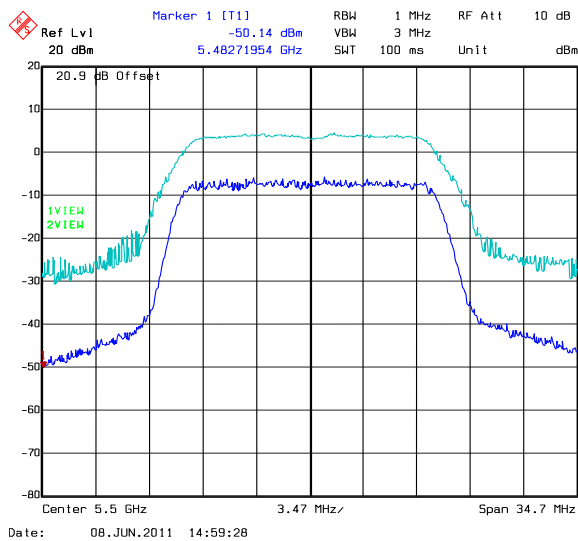
PeakExcursion_UNII_2_802_11A_54MBS_BottomChannel



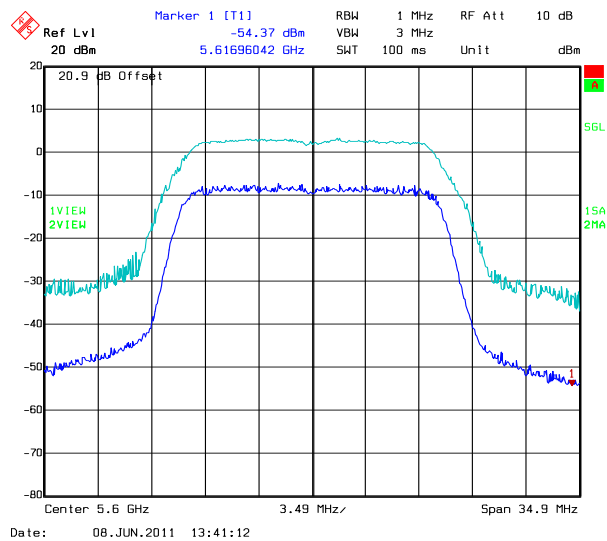
PeakExcursion_UNII_2_802_11A_54MBS_MiddleChannel



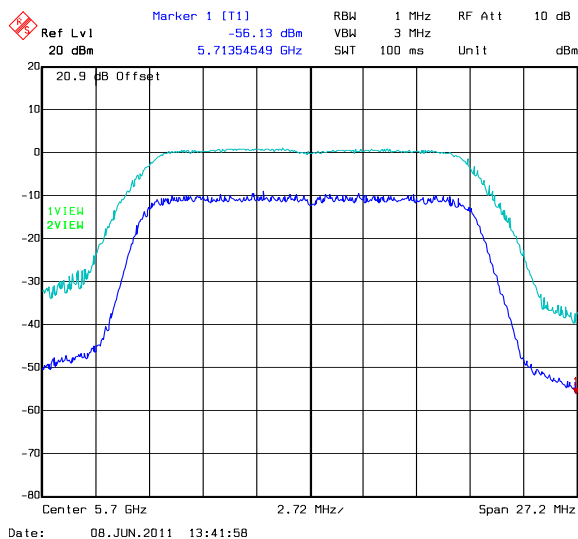
PeakExcursion_UNII_2_802_11A_54MBS_TopChannel

Transmitter Peak Excursion (continued)

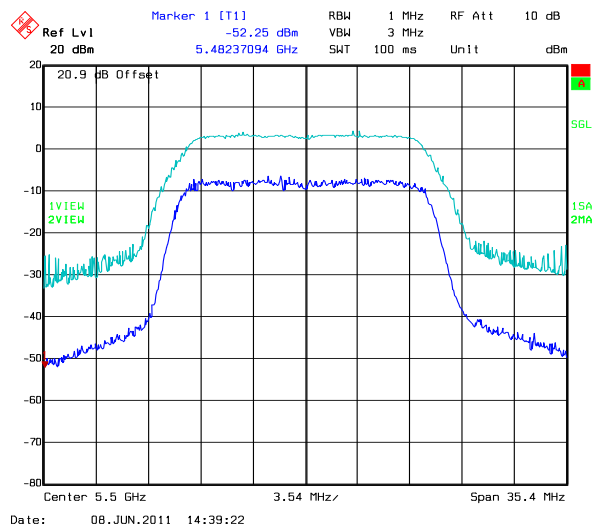
PeakExcursion_UNII_3_802_11A_6MBS_BottomChannel



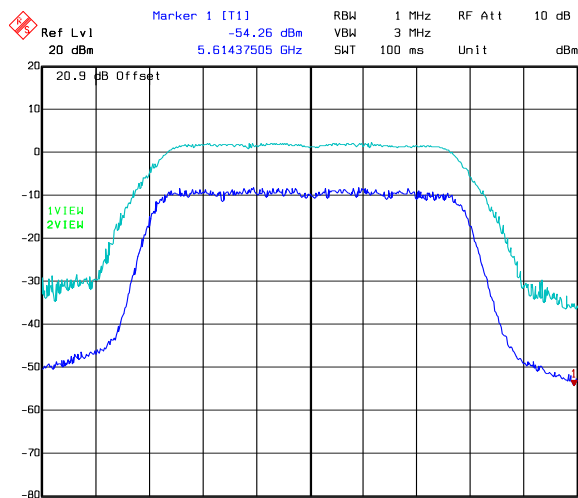
PeakExcursion_UNII_3_802_11A_6MBS_MiddleChannel



PeakExcursion_UNII_3_802_11A_6MBS_TopChannel

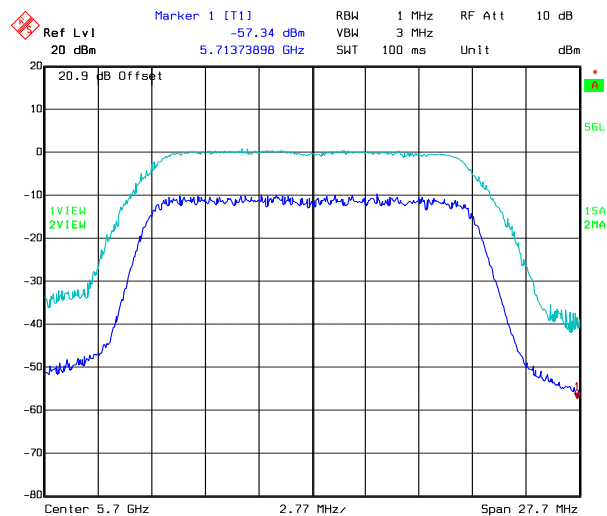


PeakExcursion_UNII_3_802_11A_9MBS_BottomChannel

Transmitter Peak Excursion (continued)

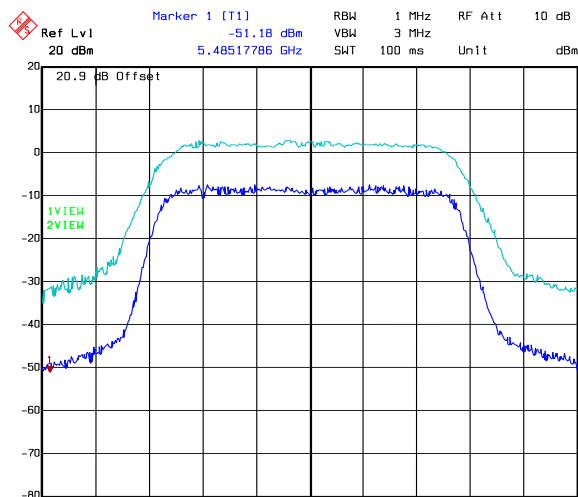
Date: 08.JUN.2011 13:43:23

PeakExcursion_UNII_3_802_11A_9MBS_MiddleChannel



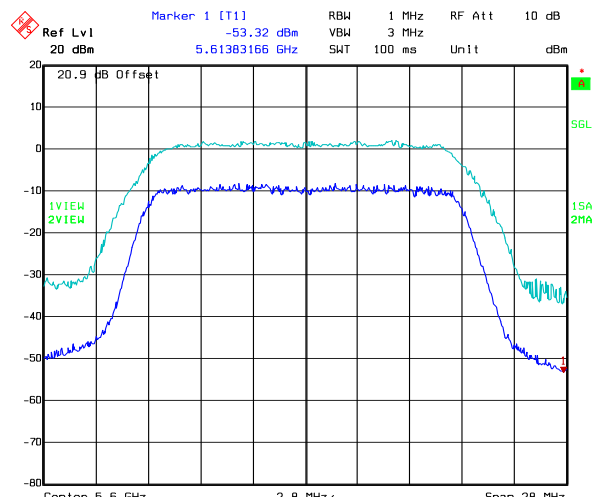
Date: 08.JUN.2011 13:44:09

PeakExcursion_UNII_3_802_11A_9MBS_TopChannel



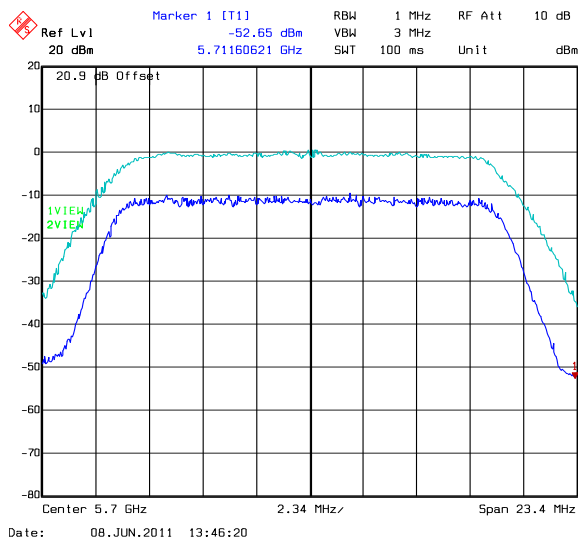
Date: 08.JUN.2011 13:44:49

PeakExcursion_UNII_3_802_11A_12MBS_BottomChannel

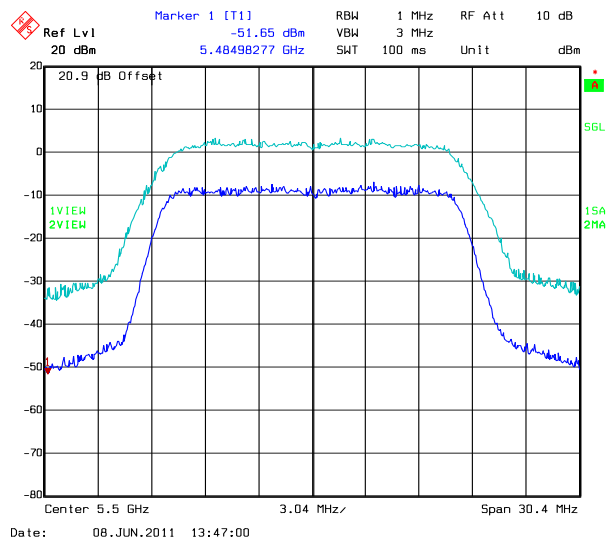


Date: 08.JUN.2011 13:45:34

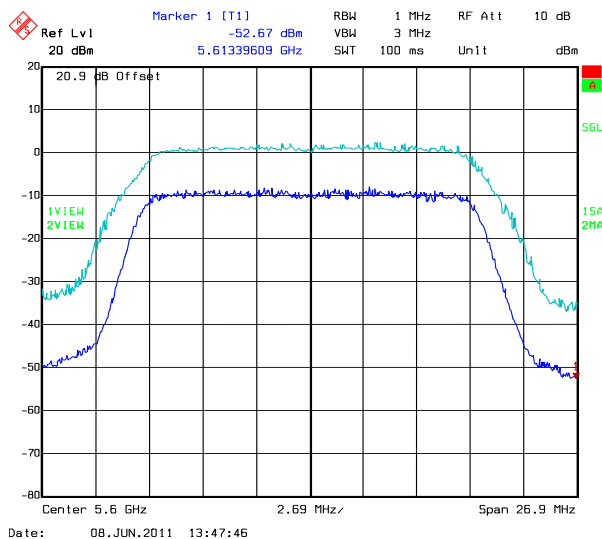
PeakExcursion_UNII_3_802_11A_12MBS_MiddleChannel

Transmitter Peak Excursion (continued)

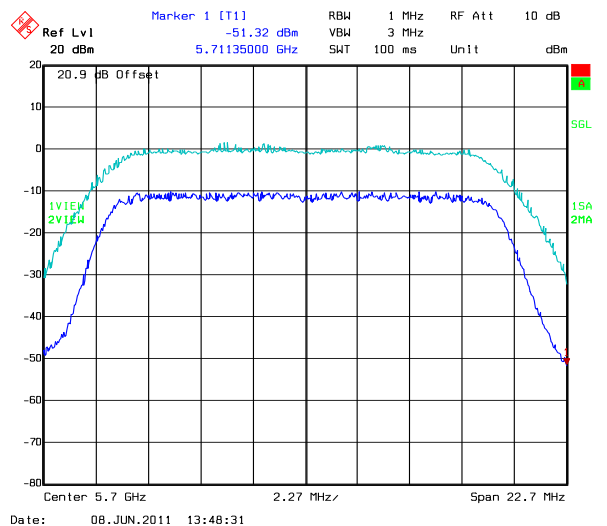
PeakExcursion_UNII_3_802_11A_12MBS_TopChannel



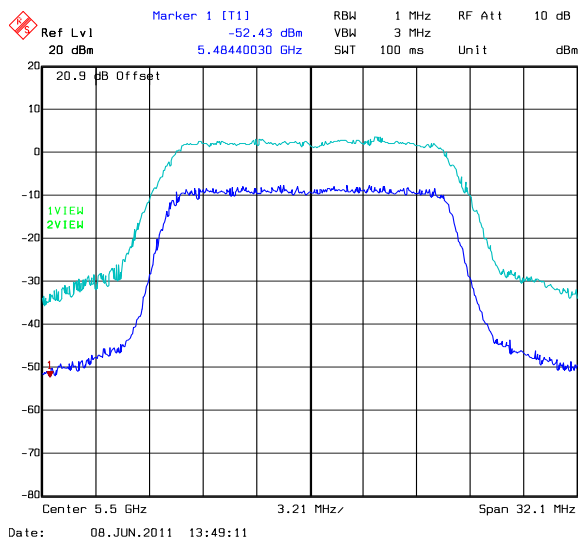
PeakExcursion_UNII_3_802_11A_18MBS_BottomChannel



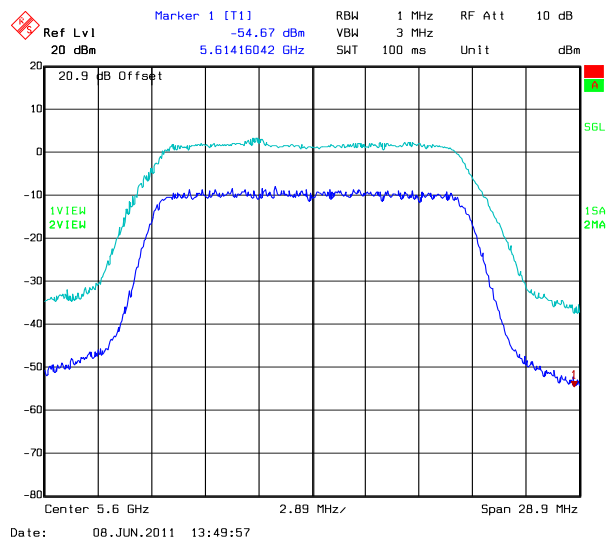
PeakExcursion_UNII_3_802_11A_18MBS_MiddleChannel



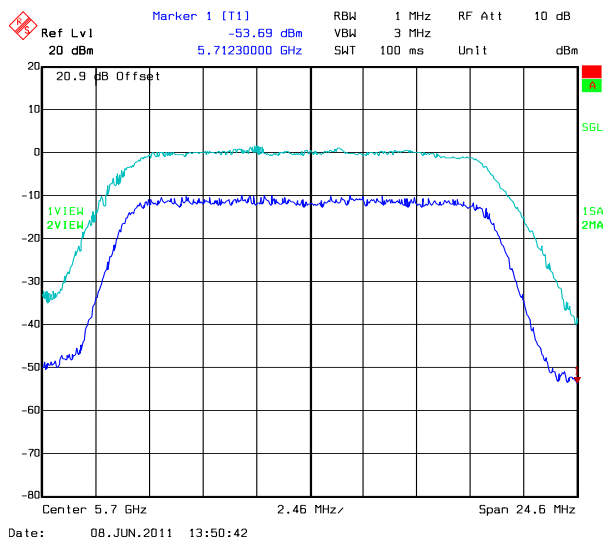
PeakExcursion_UNII_3_802_11A_18MBS_TopChannel

Transmitter Peak Excursion (continued)

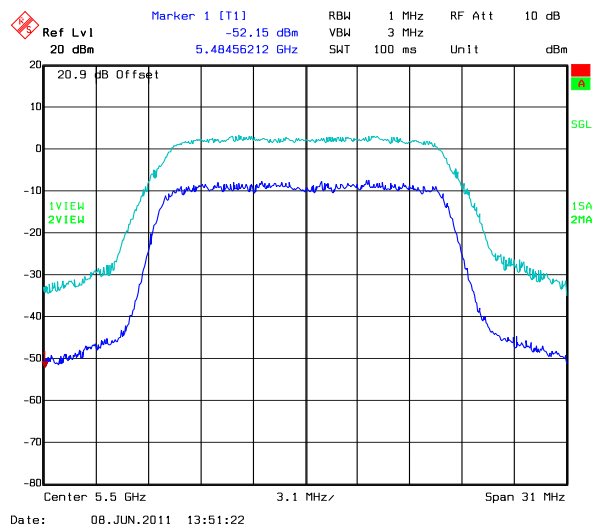
PeakExcursion_UNII_3_802_11A_24MBS_BottomChannel



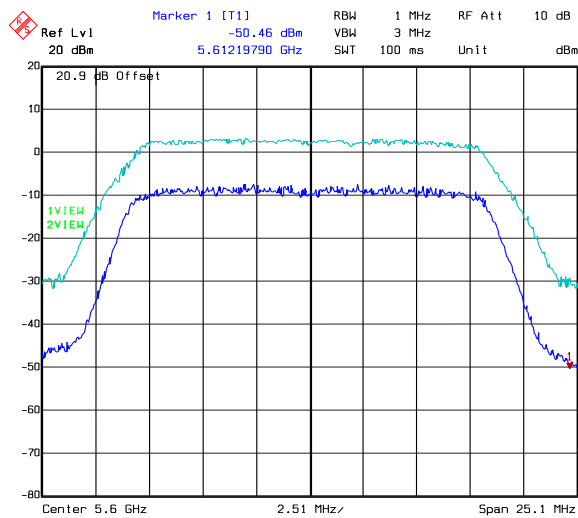
PeakExcursion_UNII_3_802_11A_24MBS_MiddleChannel



PeakExcursion_UNII_3_802_11A_24MBS_TopChannel

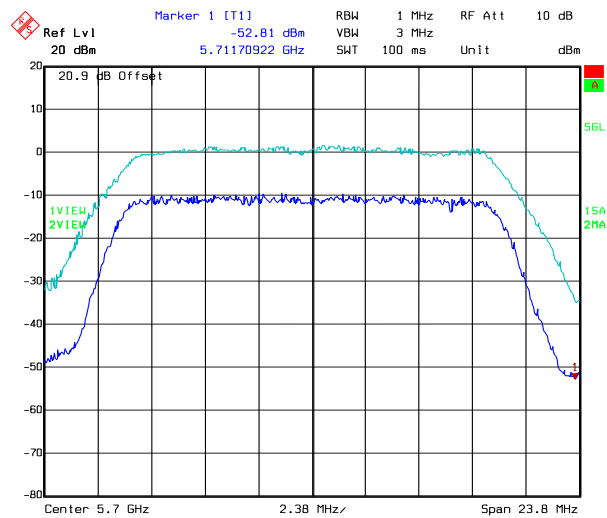


PeakExcursion_UNII_3_802_11A_36MBS_BottomChannel

Transmitter Peak Excursion (continued)

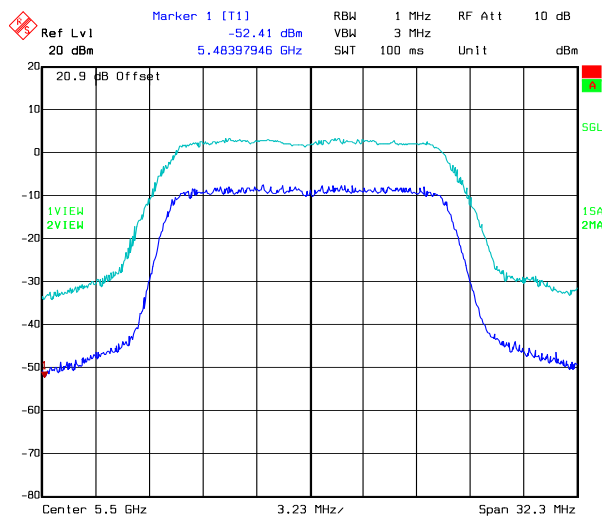
Date: 08.JUN.2011 14:40:08

PeakExcursion_UNII_3_802_11A_36MBS_MiddleChannel



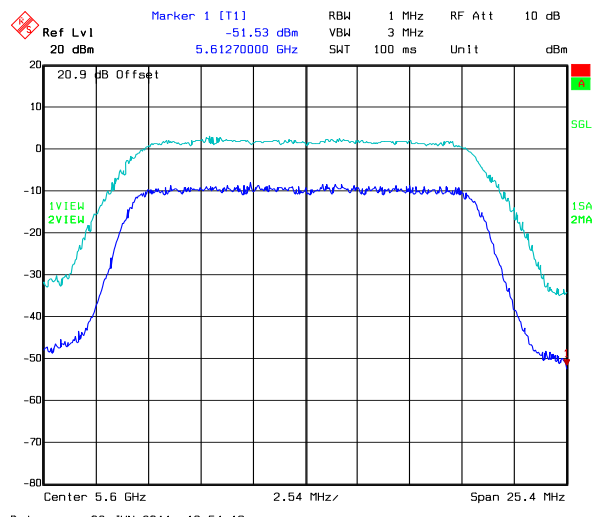
Date: 08.JUN.2011 13:52:54

PeakExcursion_UNII_3_802_11A_36MBS_TopChannel



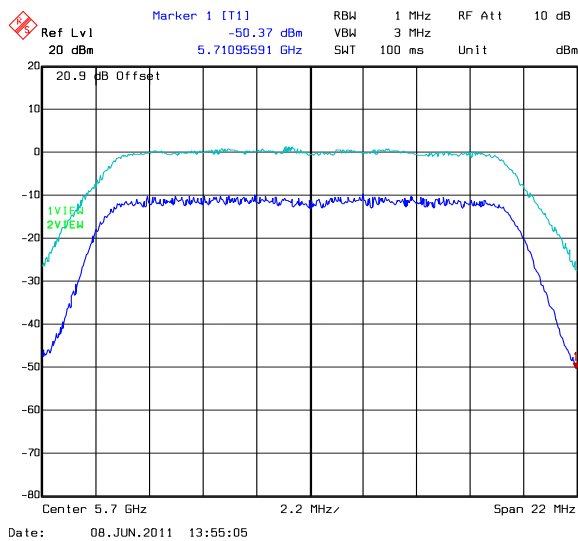
Date: 08.JUN.2011 13:53:34

PeakExcursion_UNII_3_802_11A_48MBS_BottomChannel

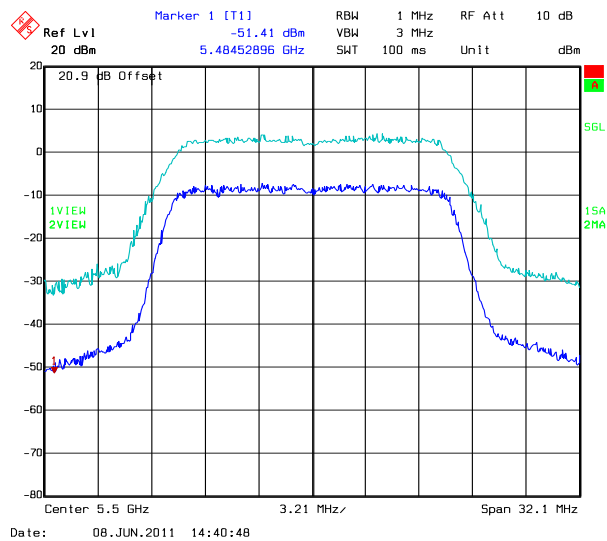


Date: 08.JUN.2011 13:54:19

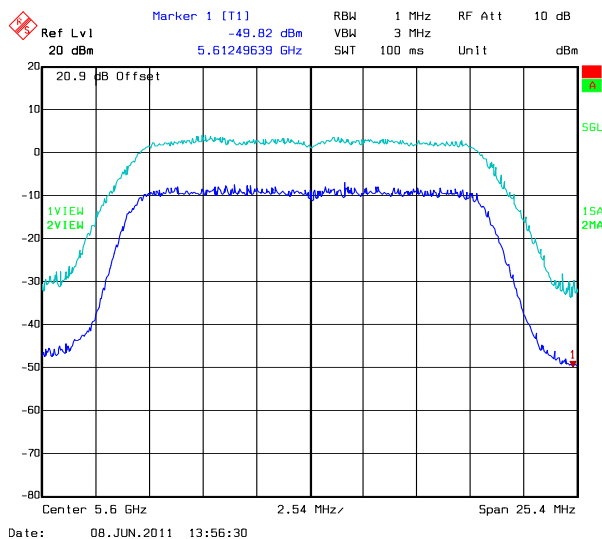
PeakExcursion_UNII_3_802_11A_48MBS_MiddleChannel

Transmitter Peak Excursion (continued)

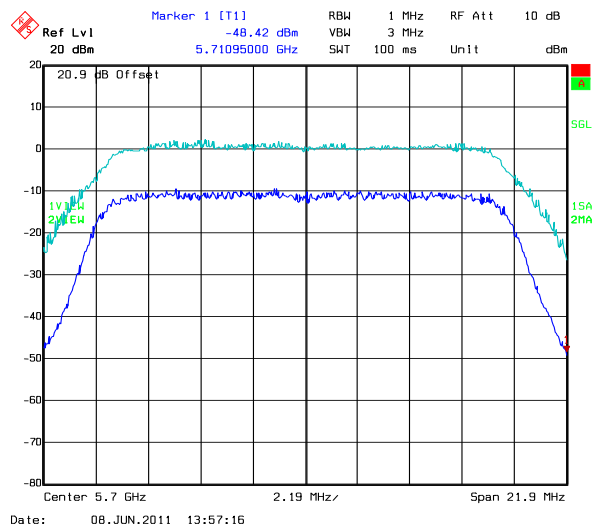
PeakExcursion_UNII_3_802_11A_48MBS_TopChannel



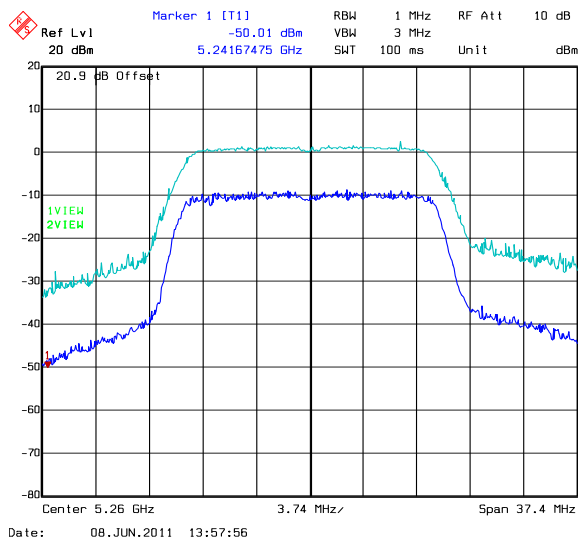
PeakExcursion_UNII_3_802_11A_54MBS_BottomChannel



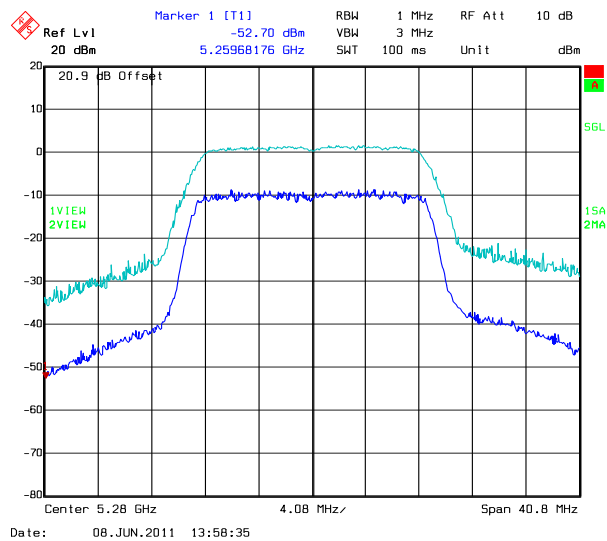
PeakExcursion_UNII_3_802_11A_54MBS_MiddleChannel



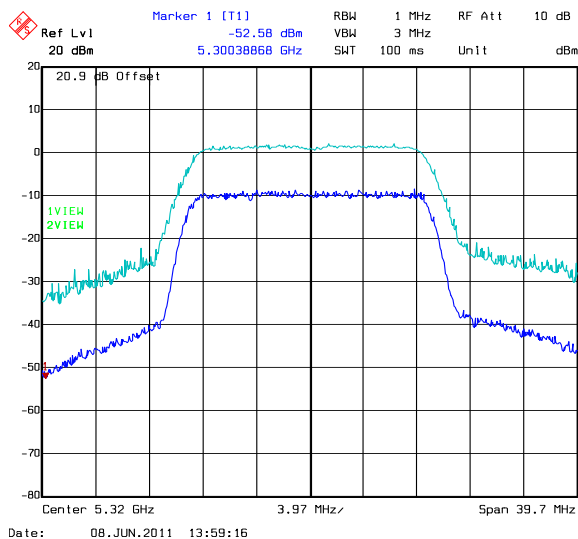
PeakExcursion_UNII_3_802_11A_54MBS_TopChannel

Transmitter Peak Excursion (continued)

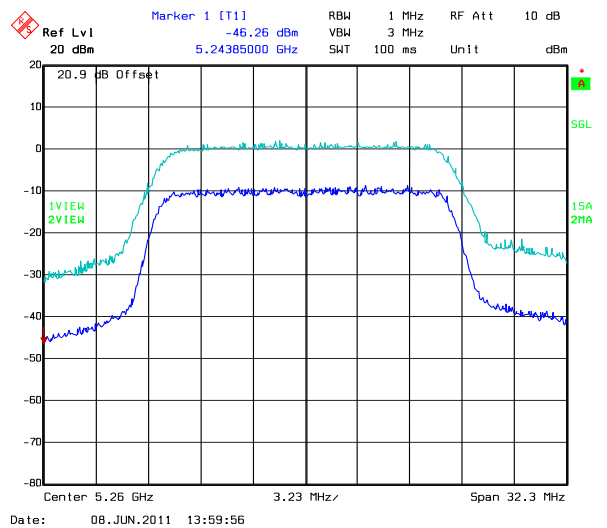
PeakExcursion_UNII_2_802_11N_6_5MBS_BottomChannel



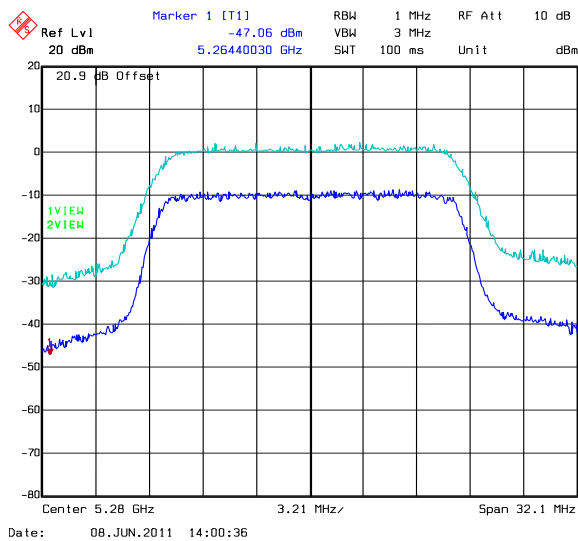
PeakExcursion_UNII_2_802_11N_6_5MBS_MiddleChannel



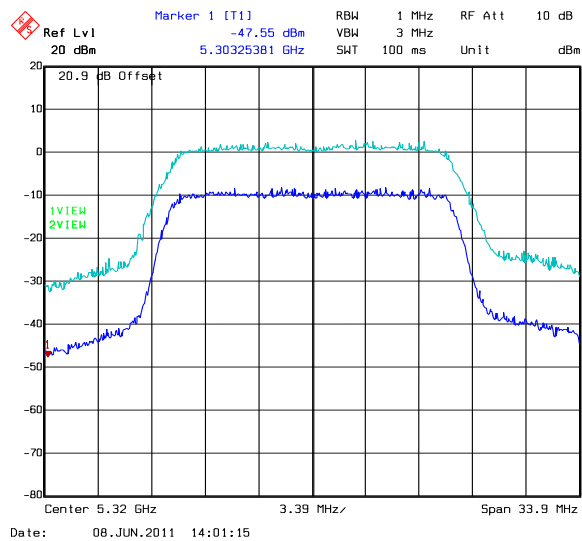
PeakExcursion_UNII_2_802_11N_6_5MBS_TopChannel



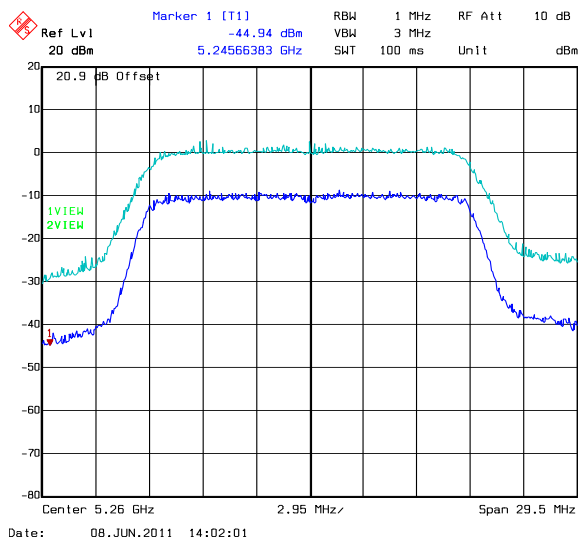
PeakExcursion_UNII_2_802_11N_13MBS_BottomChannel

Transmitter Peak Excursion (continued)

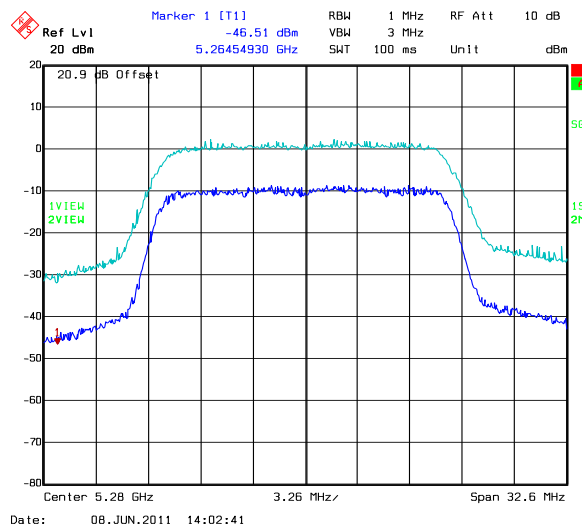
PeakExcursion_UNII_2_802_11N_13MBS_MiddleChannel



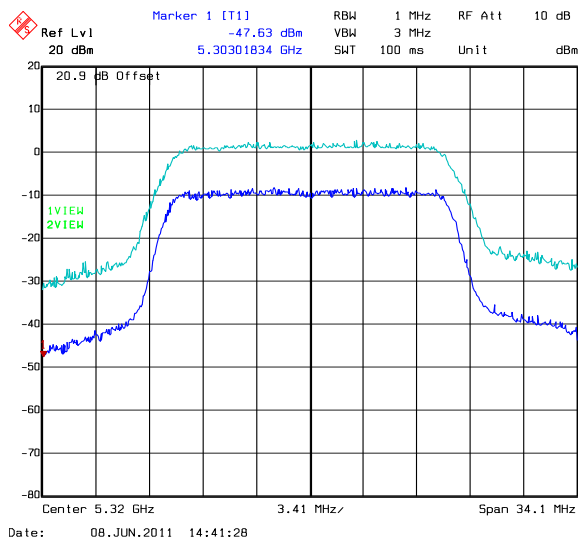
PeakExcursion_UNII_2_802_11N_13MBS_TopChannel



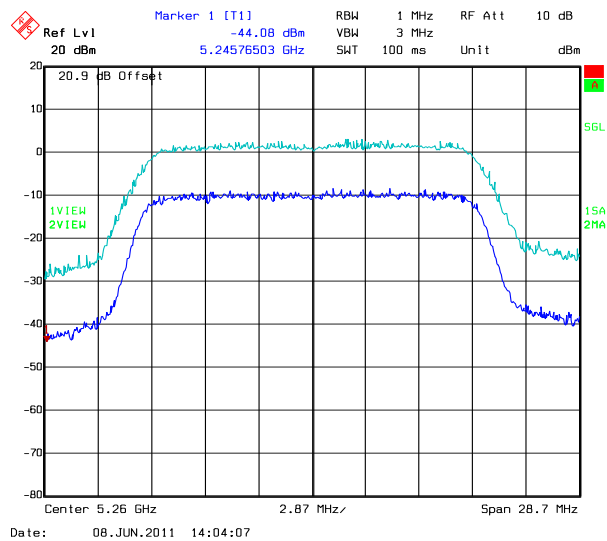
PeakExcursion_UNII_2_802_11N_19_5MBS_BottomChannel



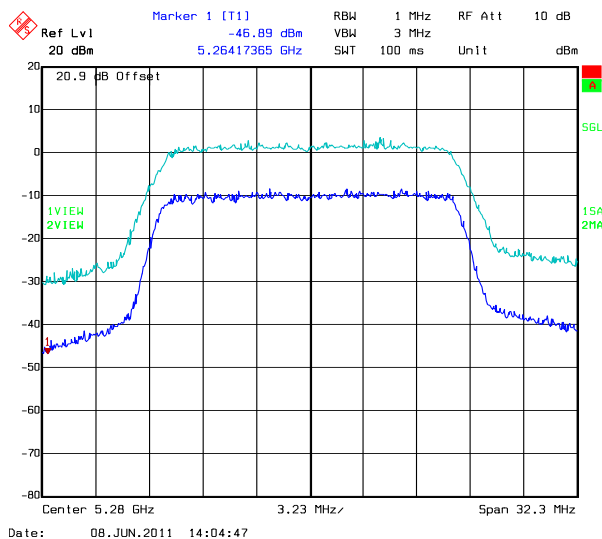
PeakExcursion_UNII_2_802_11N_19_5MBS_MiddleChannel

Transmitter Peak Excursion (continued)

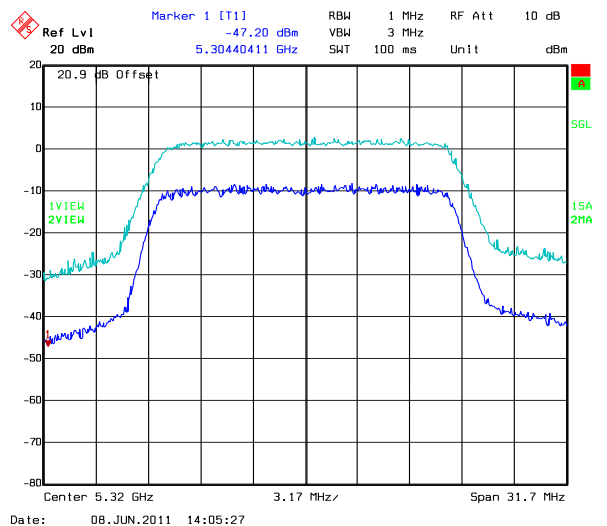
PeakExcursion_UNII_2_802_11N_19_5MBS_TopChannel



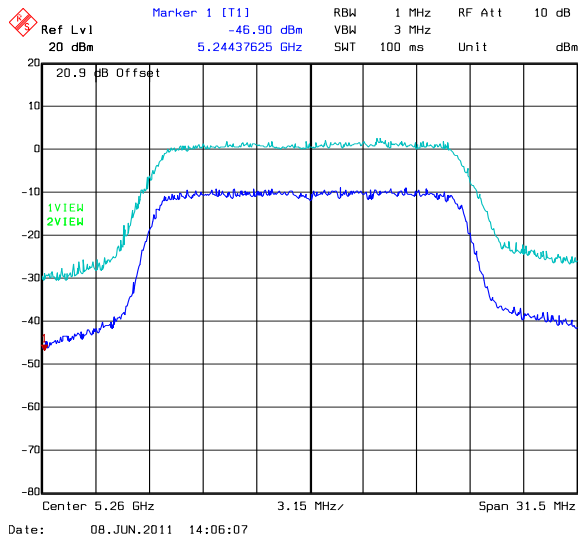
PeakExcursion_UNII_2_802_11N_26MBS_BottomChannel



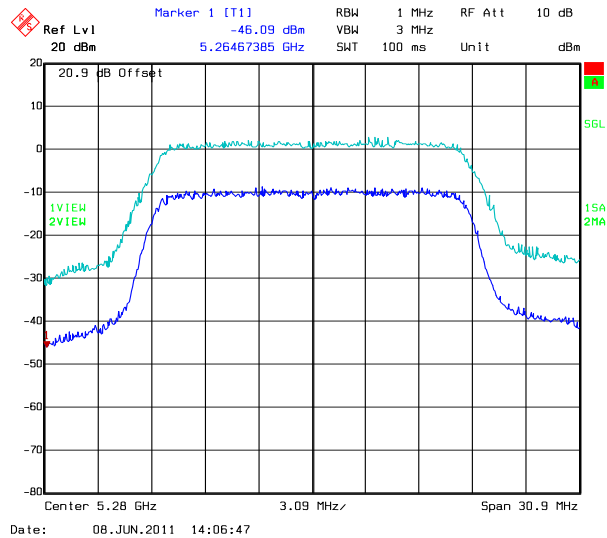
PeakExcursion_UNII_2_802_11N_26MBS_MiddleChannel



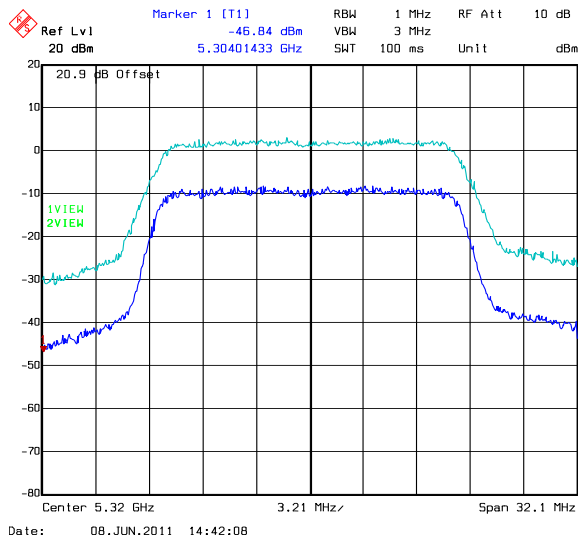
PeakExcursion_UNII_2_802_11N_26MBS_TopChannel

Transmitter Peak Excursion (continued)

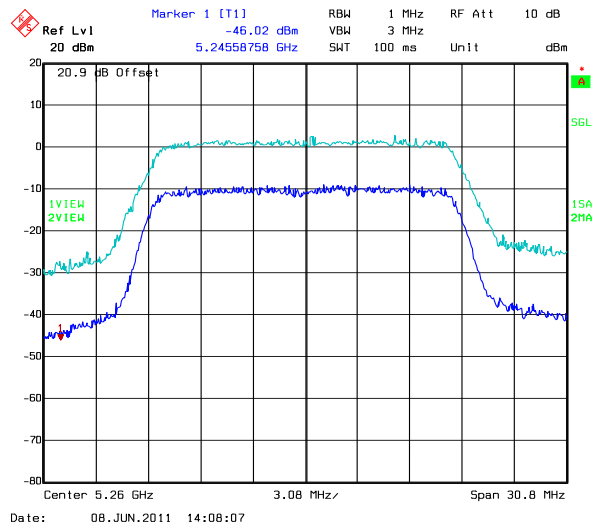
PeakExcursion_UNII_2_802_11N_39MBS_BottomChannel



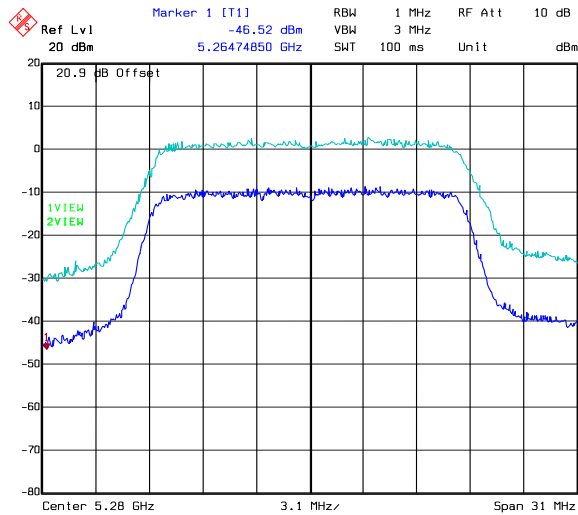
PeakExcursion_UNII_2_802_11N_39MBS_MiddleChannel



PeakExcursion_UNII_2_802_11N_39MBS_TopChannel

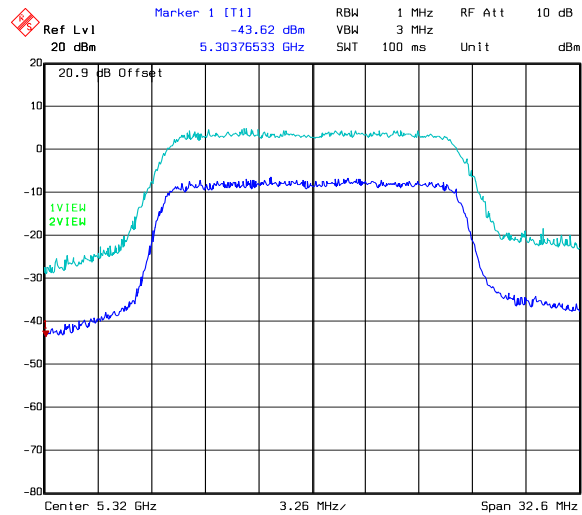


PeakExcursion_UNII_2_802_11N_52MBS_BottomChannel

Transmitter Peak Excursion (continued)

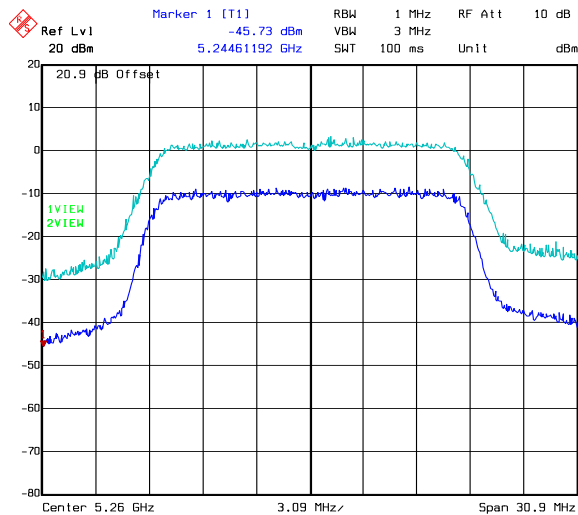
Date: 08.JUN.2011 14:08:47

PeakExcursion_UNII_2_802_11N_52MBS_MiddleChannel



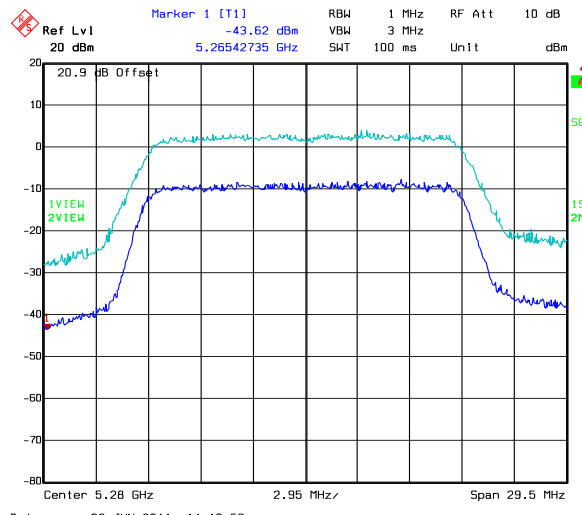
Date: 08.JUN.2011 14:54:05

PeakExcursion_UNII_2_802_11N_52MBS_TopChannel



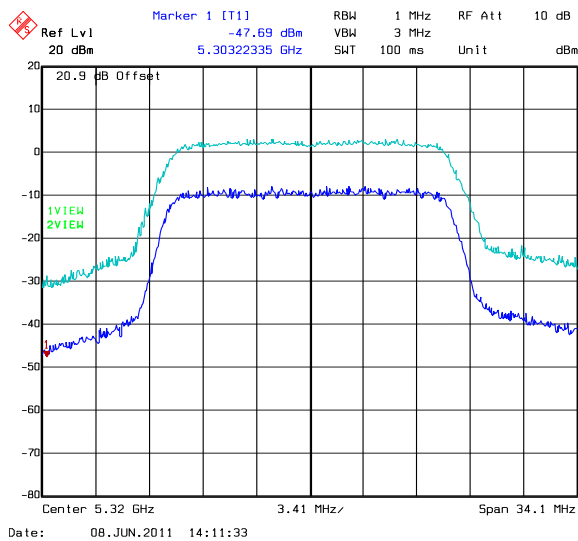
Date: 08.JUN.2011 14:42:48

PeakExcursion_UNII_2_802_11N_58_5MBS_BottomChannel

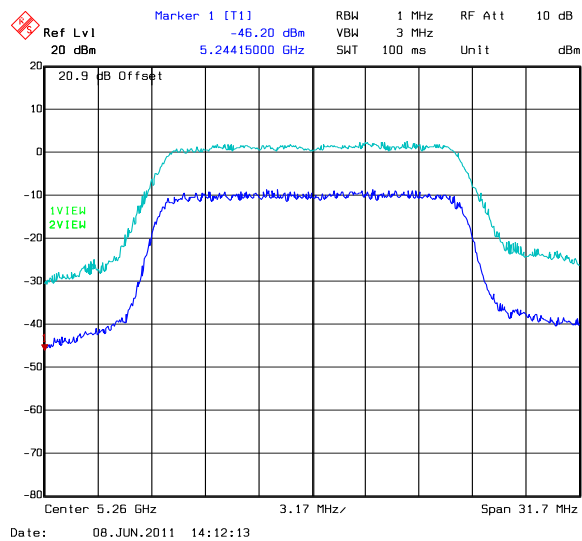


Date: 08.JUN.2011 14:10:53

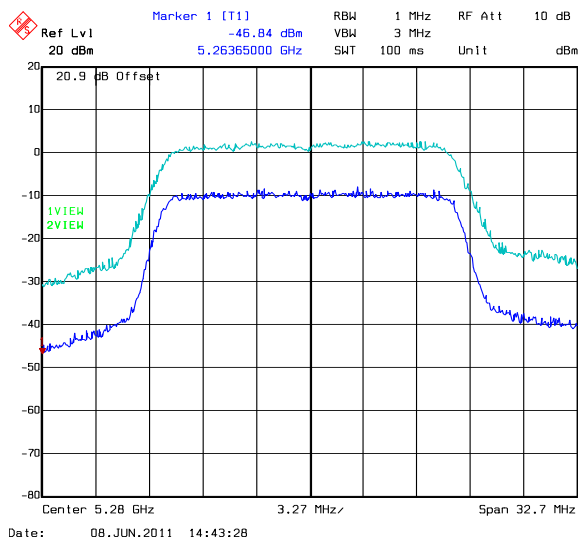
PeakExcursion_UNII_2_802_11N_58_5MBS_MiddleChannel

Transmitter Peak Excursion (continued)

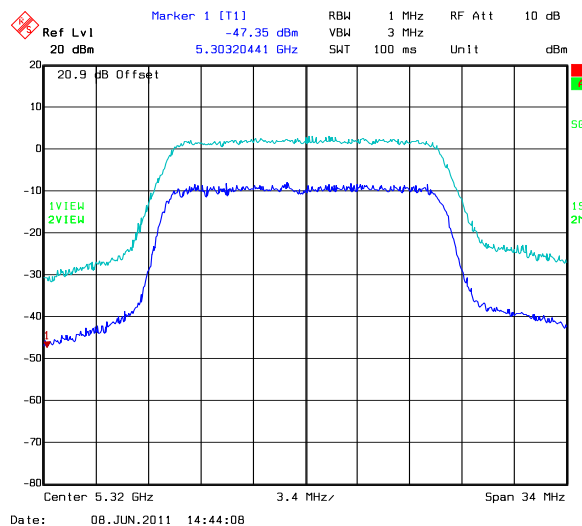
PeakExcursion_UNII_2_802_11N_58_5MBS_TopChannel



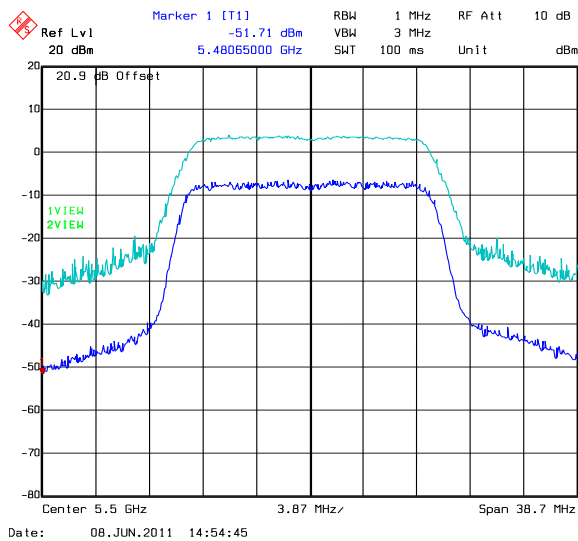
PeakExcursion_UNII_2_802_11N_65MBS_BottomChannel



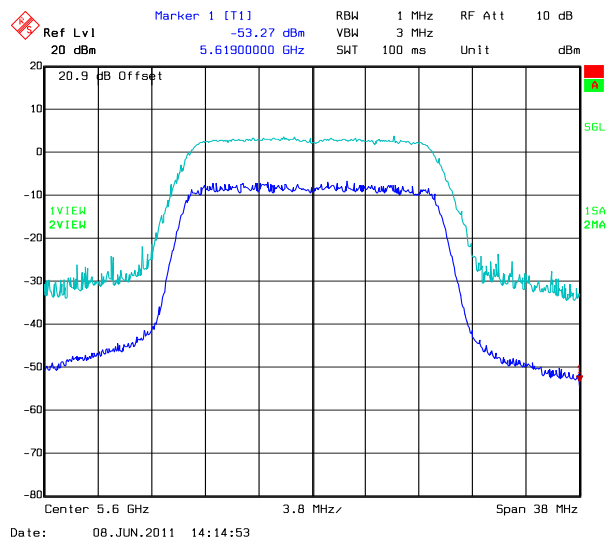
PeakExcursion_UNII_2_802_11N_65MBS_MiddleChannel



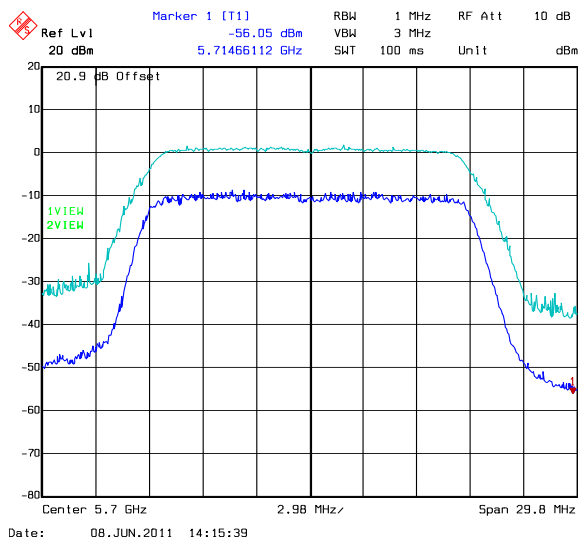
PeakExcursion_UNII_2_802_11N_65MBS_TopChannel

Transmitter Peak Excursion (continued)

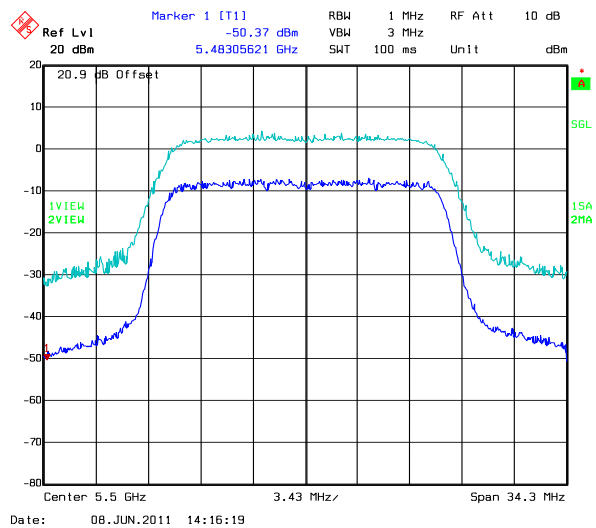
PeakExcursion_UNII_3_802_11N_6_5MBS_BottomChannel



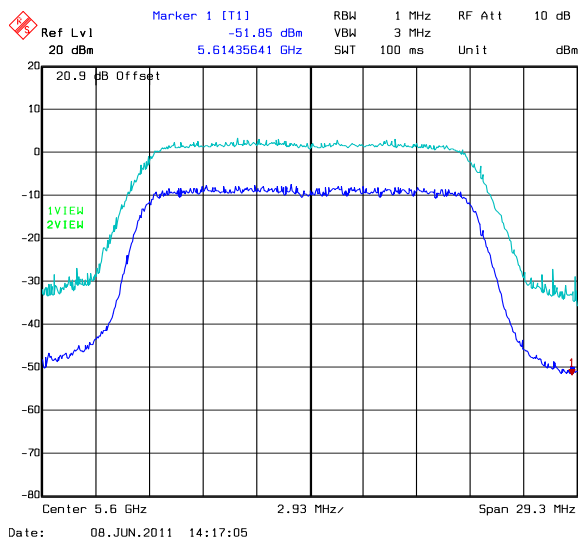
PeakExcursion_UNII_3_802_11N_6_5MBS_MiddleChannel



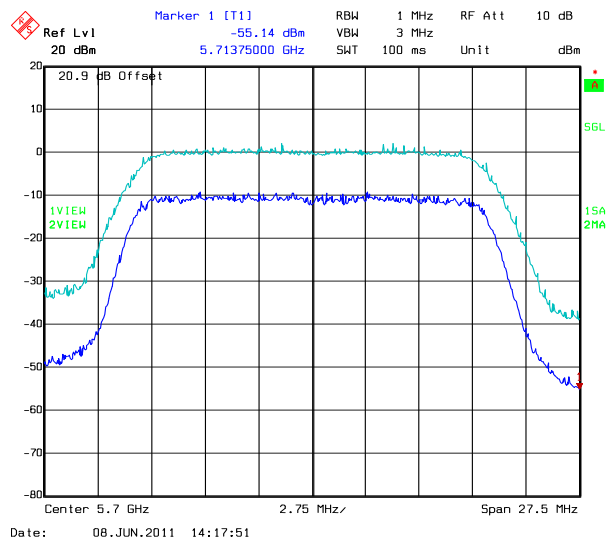
PeakExcursion_UNII_3_802_11N_6_5MBS_TopChannel



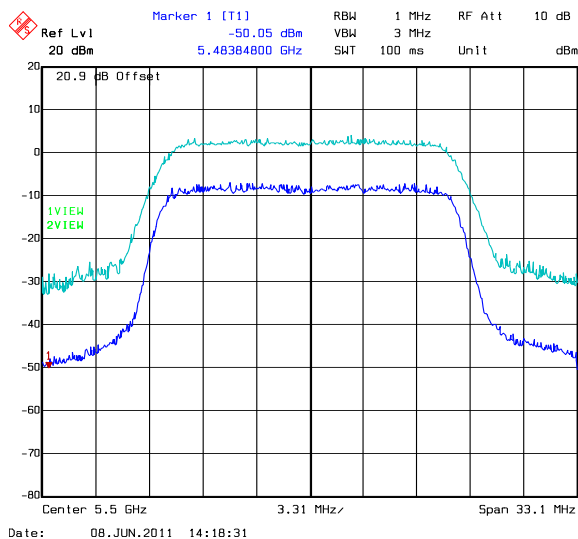
PeakExcursion_UNII_3_802_11N_13MBS_BottomChannel

Transmitter Peak Excursion (continued)

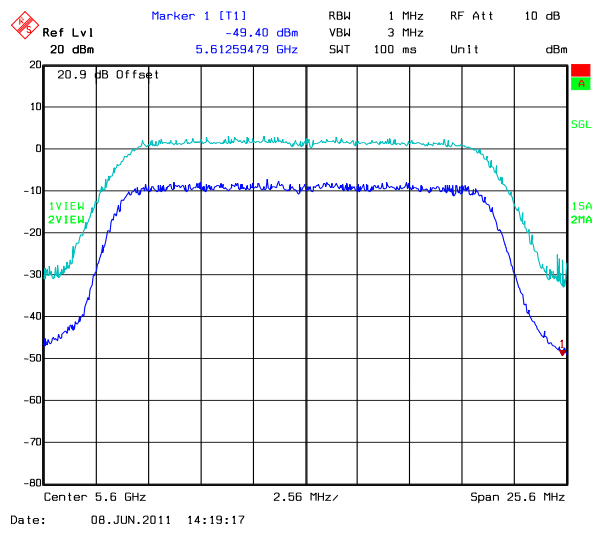
PeakExcursion_UNII_3_802_11N_13MBS_MiddleChannel



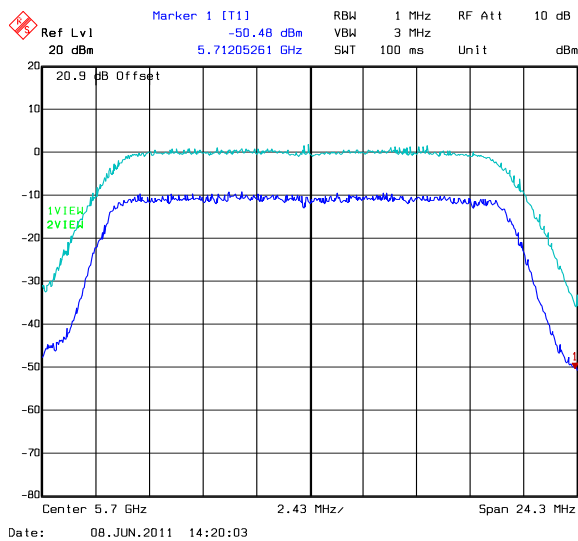
PeakExcursion_UNII_3_802_11N_13MBS_TopChannel



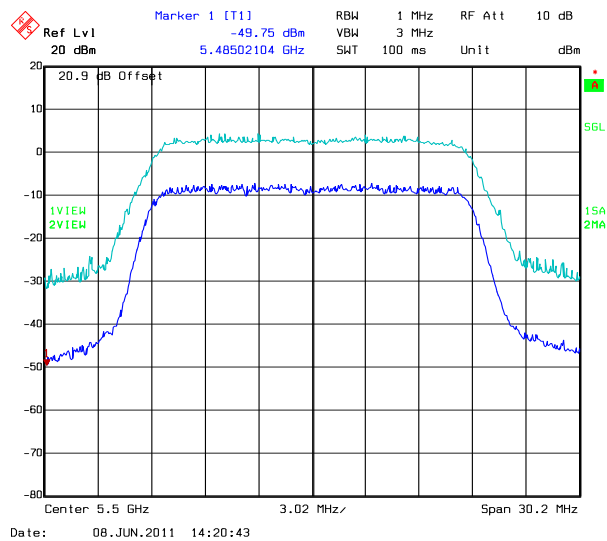
PeakExcursion_UNII_3_802_11N_19_5MBS_BottomChannel



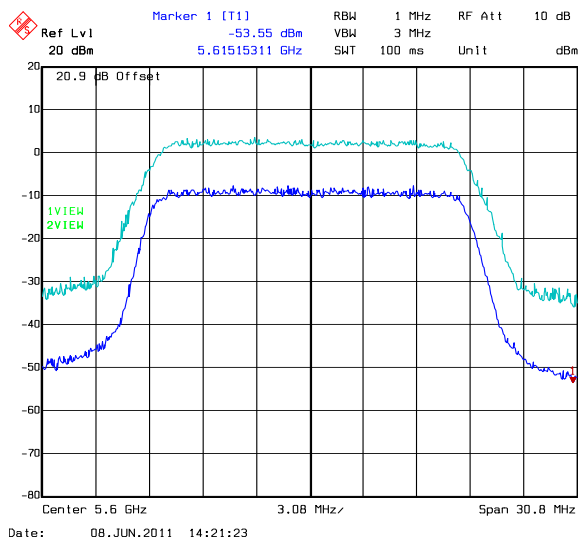
PeakExcursion_UNII_3_802_11N_19_5MBS_MiddleChannel

Transmitter Peak Excursion (continued)

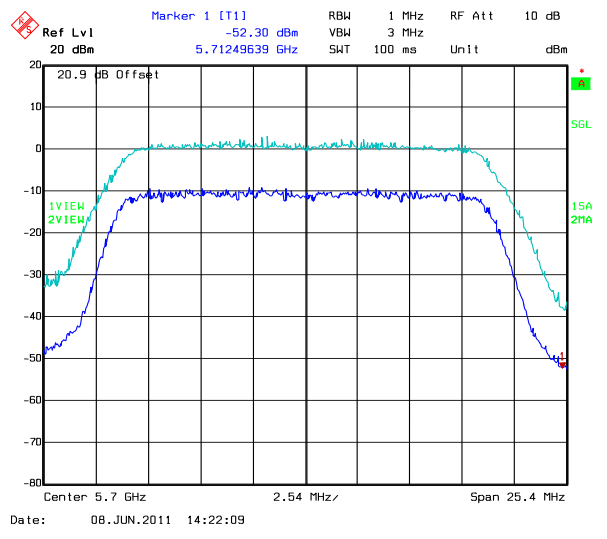
PeakExcursion_UNII_3_802_11N_19_5MBS_TopChannel



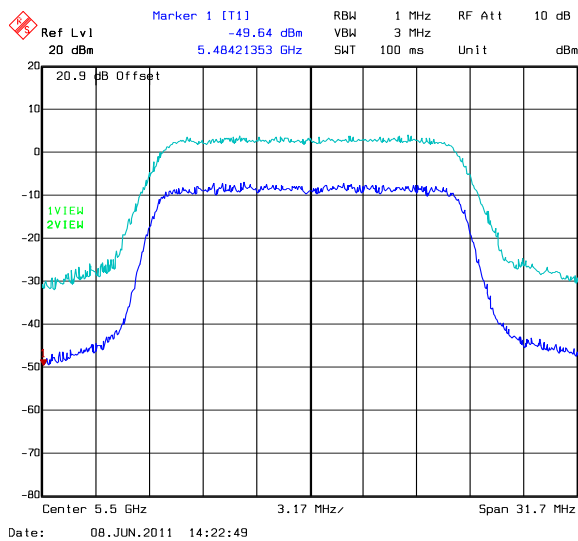
PeakExcursion_UNII_3_802_11N_26MBS_BottomChannel



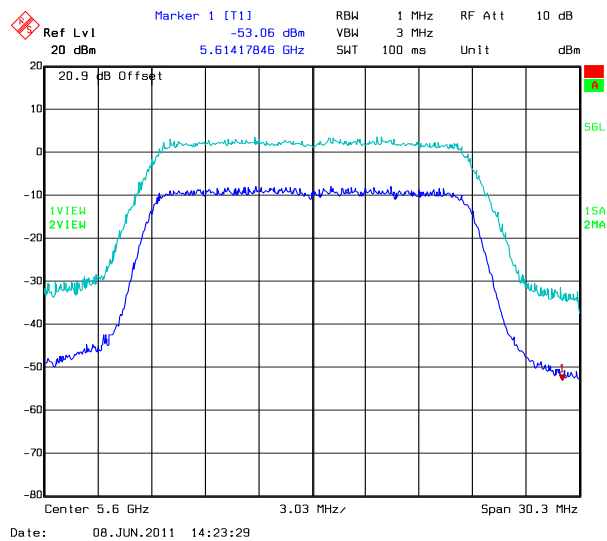
PeakExcursion_UNII_3_802_11N_26MBS_MiddleChannel



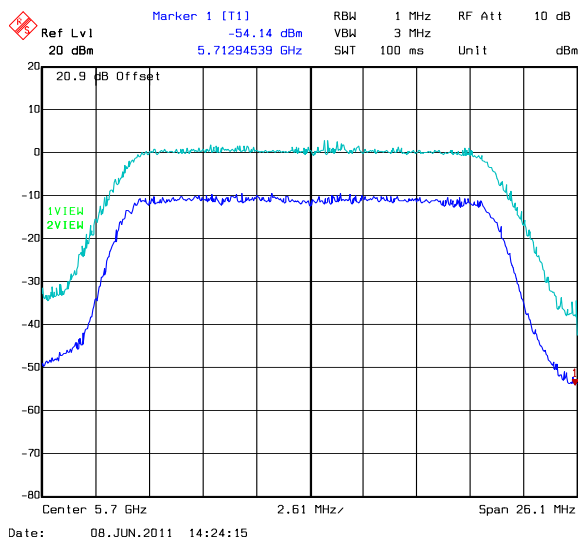
PeakExcursion_UNII_3_802_11N_26MBS_TopChannel

Transmitter Peak Excursion (continued)

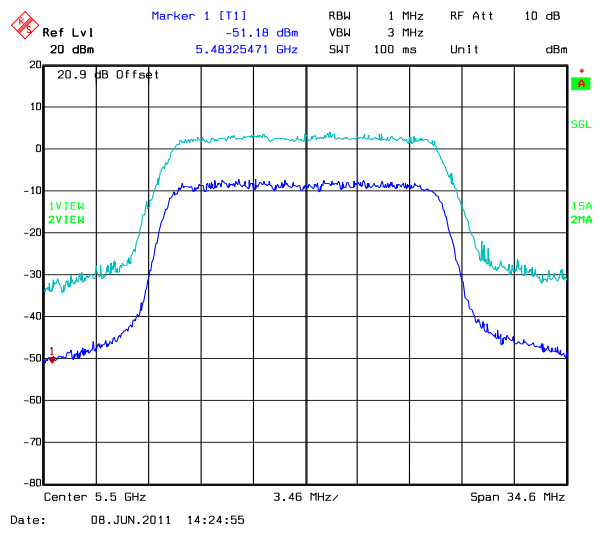
PeakExcursion_UNII_3_802_11N_39MBS_BottomChannel



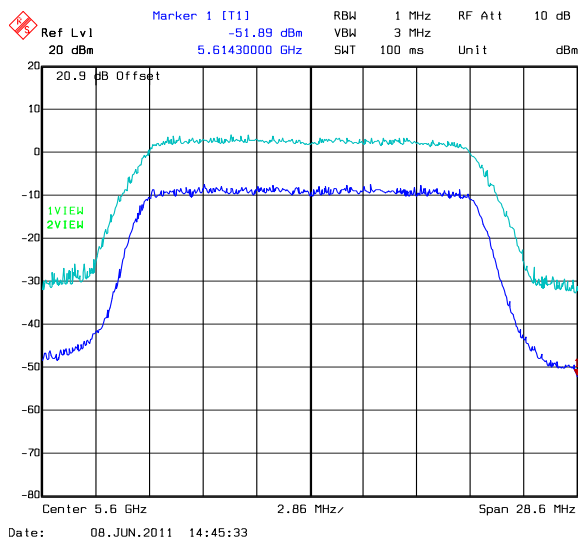
PeakExcursion_UNII_3_802_11N_39MBS_MiddleChannel



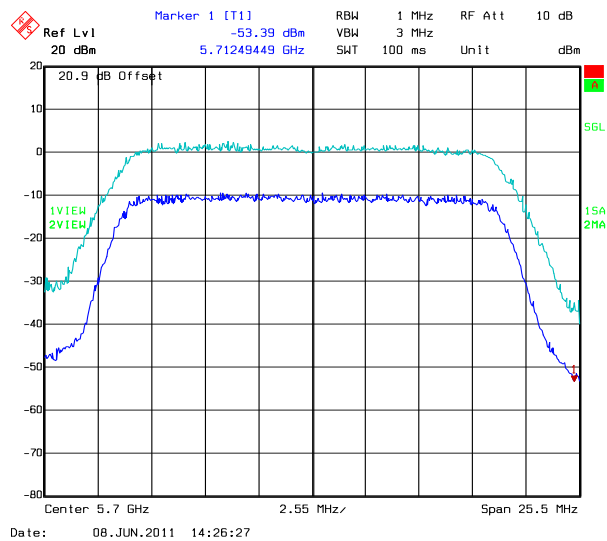
PeakExcursion_UNII_3_802_11N_39MBS_TopChannel



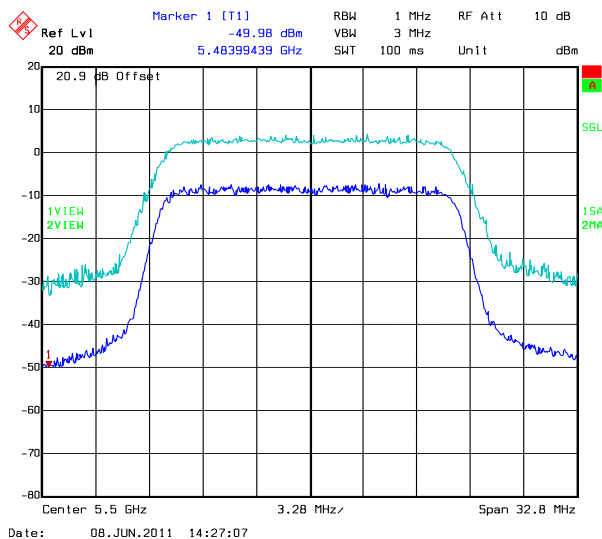
PeakExcursion_UNII_3_802_11N_52MBS_BottomChannel

Transmitter Peak Excursion (continued)

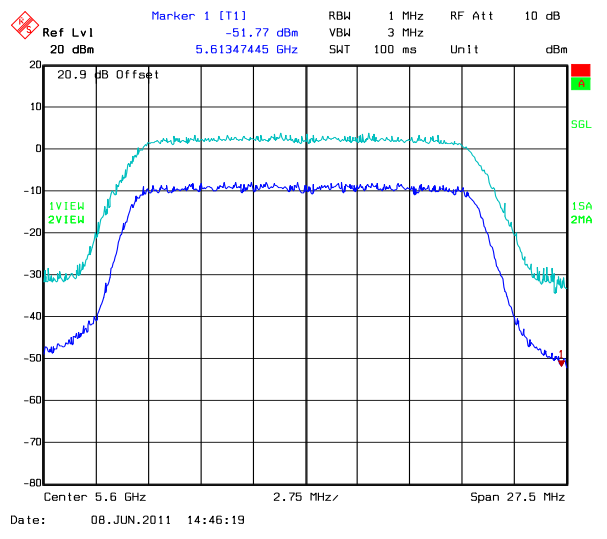
PeakExcursion_UNII_3_802_11N_52MBS_MiddleChannel



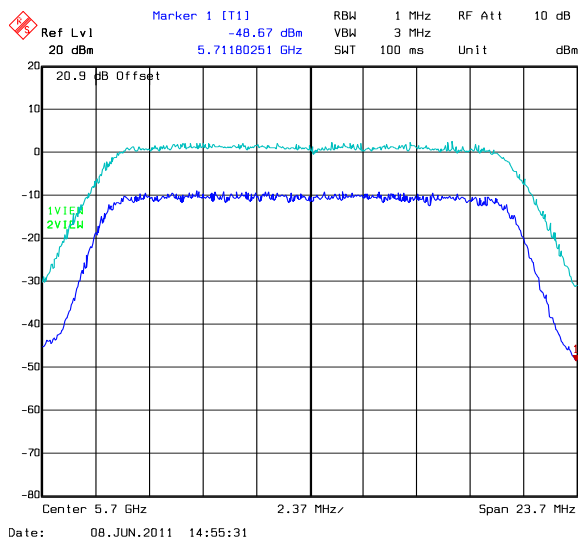
PeakExcursion_UNII_3_802_11N_52MBS_TopChannel



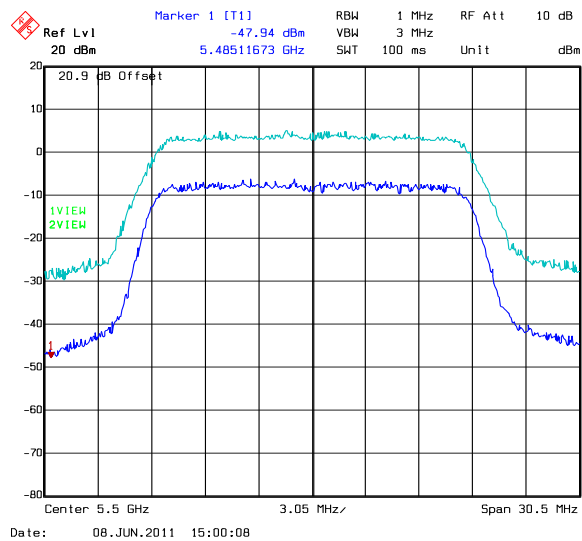
PeakExcursion_UNII_3_802_11N_58_5MBS_BottomChannel



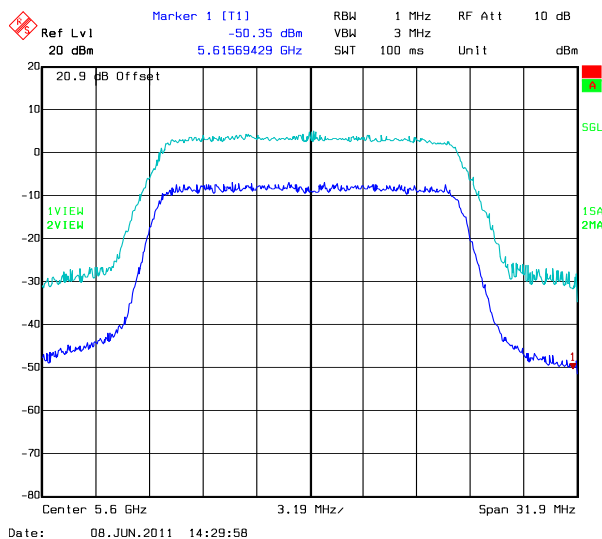
PeakExcursion_UNII_3_802_11N_58_5MBS_MiddleChannel

Transmitter Peak Excursion (continued)

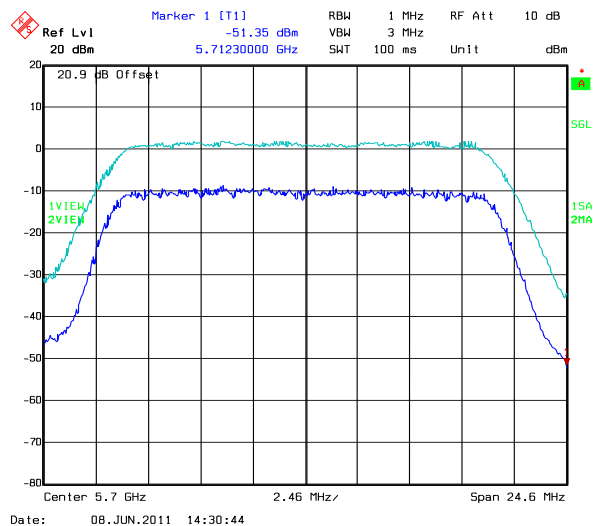
PeakExcursion_UNII_3_802_11N_58_5MBS_TopChannel



PeakExcursion_UNII_3_802_11N_65MBS_BottomChannel



PeakExcursion_UNII_3_802_11N_65MBS_MiddleChannel



PeakExcursion_UNII_3_802_11N_65MBS_TopChannel

5.2.10. Transmitter Out of Band Radiated Emissions (5.260-5.320 GHz band)**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	21 October 2011
Test Sample Serial No:	Id3		

FCC/IC Part:	15.407(b) / 15.209(a) and RSS-Gen 4.9 / A9.3 (2 & 3)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.5 referencing ANSI C63.4
Frequency Range	30 MHz to 40 GHz

Environmental Conditions:

Temperature (°C):	24
Relative Humidity (%):	28

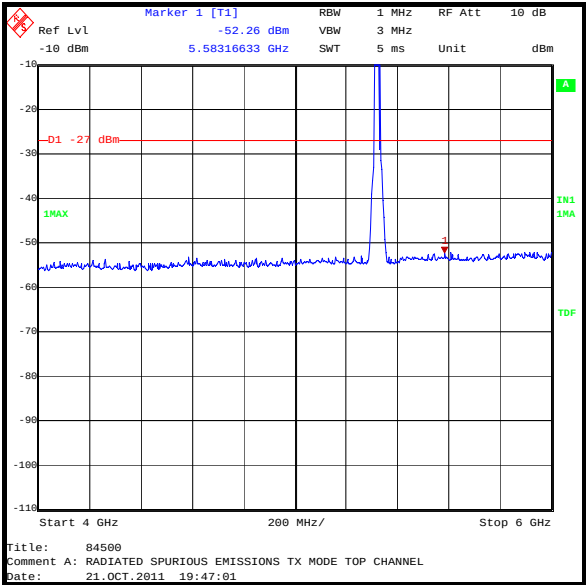
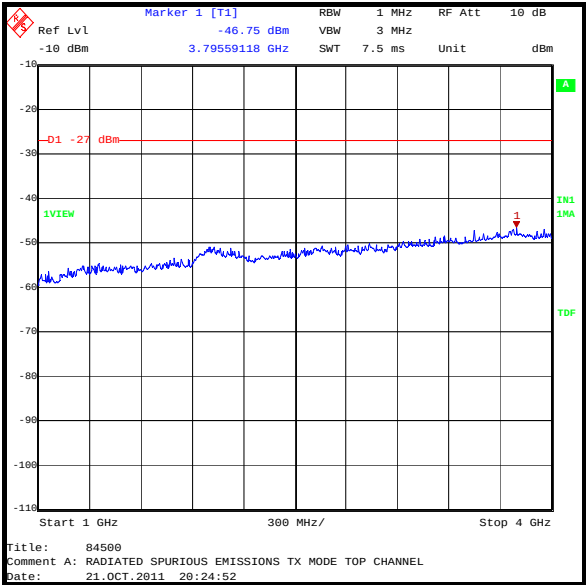
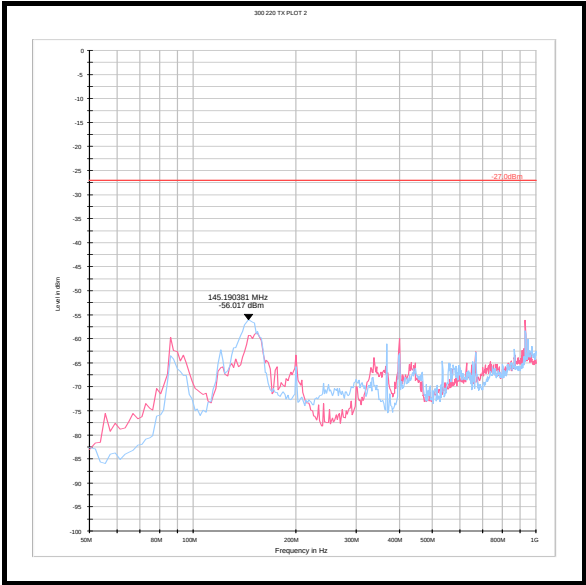
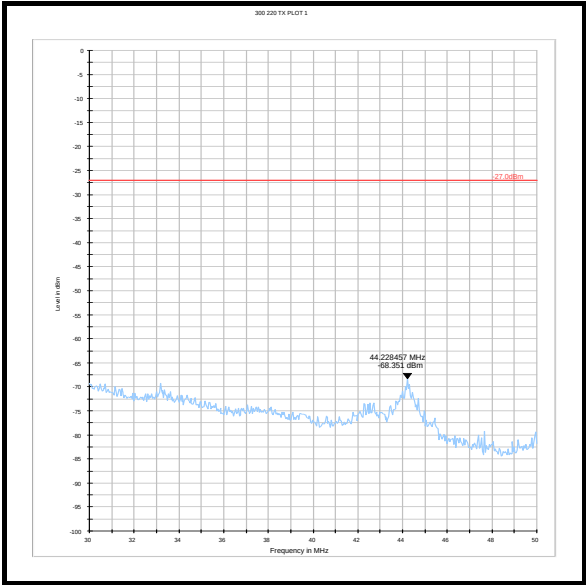
Results: Top Channel

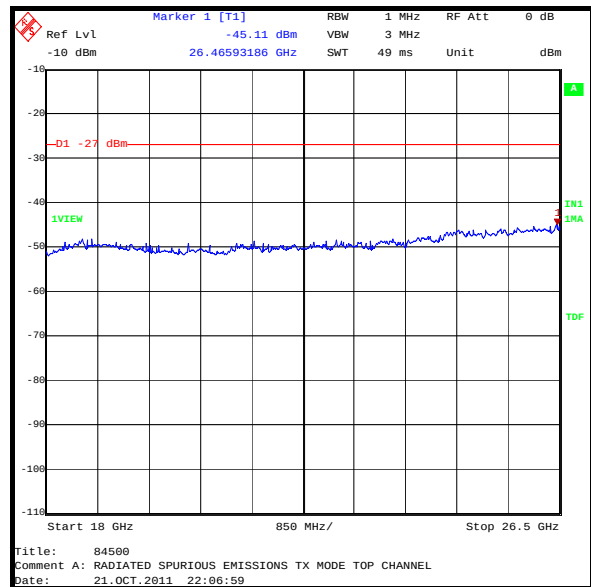
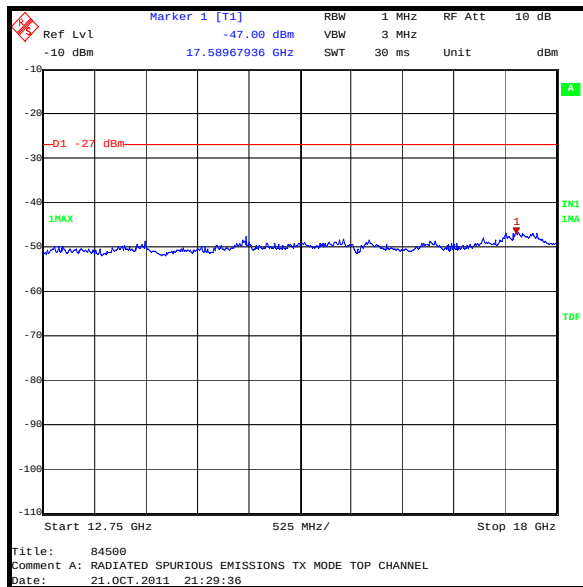
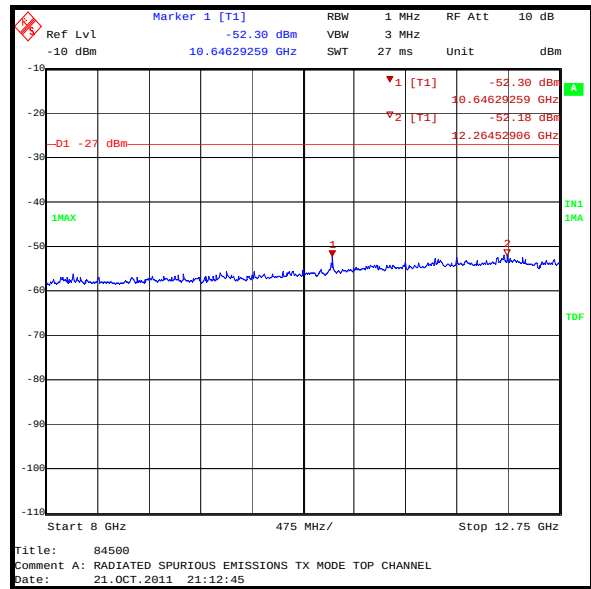
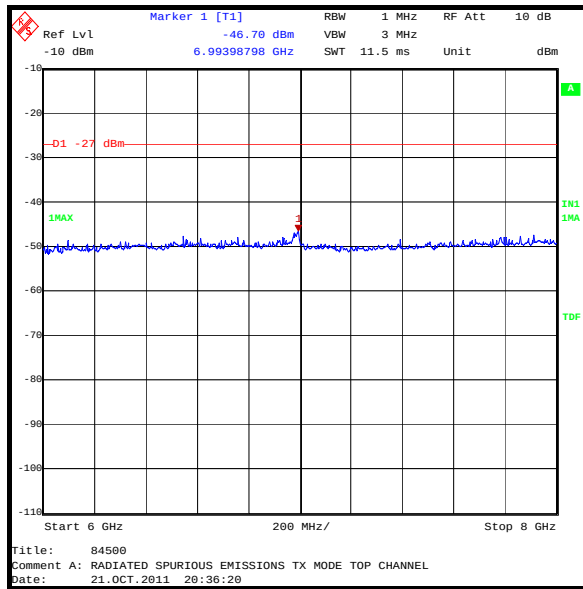
Frequency (GHz)	Antenna Polarity	Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Result
37.186	Horizontal	-40.9	-27.0	13.9	Complied

Note(s):

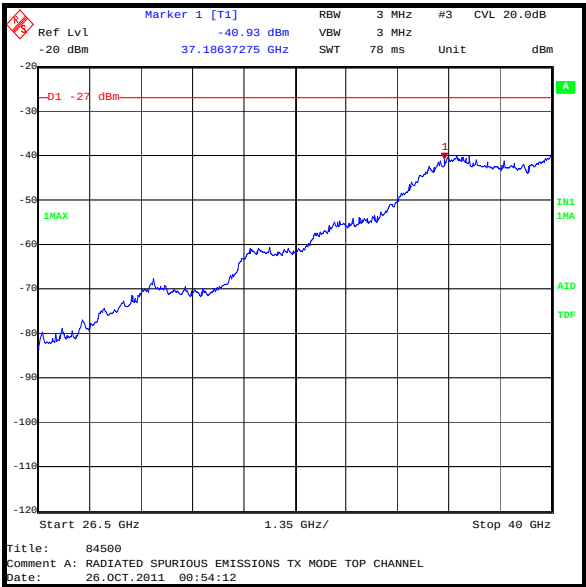
1. All measurements within this section of the report were performed with the ProAnt inside WLAN antenna fitted.
1. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.
2. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
3. All emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
4. The emission shown on the 4 GHz to 6 GHz plot is the EUT fundamental.
5. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

Transmitter Out of Band Radiated Emissions 5.260 - 5.320 GHz band (continued)



Transmitter Out of Band Radiated Emissions 5.260 - 5.320 GHz band (continued)

Transmitter Out of Band Radiated Emissions 5.260 - 5.320 GHz band (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

5.2.11. Transmitter Out of Band Radiated Emissions (5.500-5.700 GHz band)**Test Summary:**

Test Engineer:	Nick Steele	Test Date:	21 October 2011 & 22 October 2011
Test Sample Serial No:	Id3		

FCC/IC Part:	15.407(b) / 15.209(a) and RSS-Gen 4.9 / A9.3 (2 & 3)
Test Method Used:	As detailed in ANSI C63.10 Sections 6.3 and 6.6 referencing ANSI C63.4
Frequency Range	30 MHz to 40 GHz

Environmental Conditions:

Temperature (°C):	25
Relative Humidity (%):	28

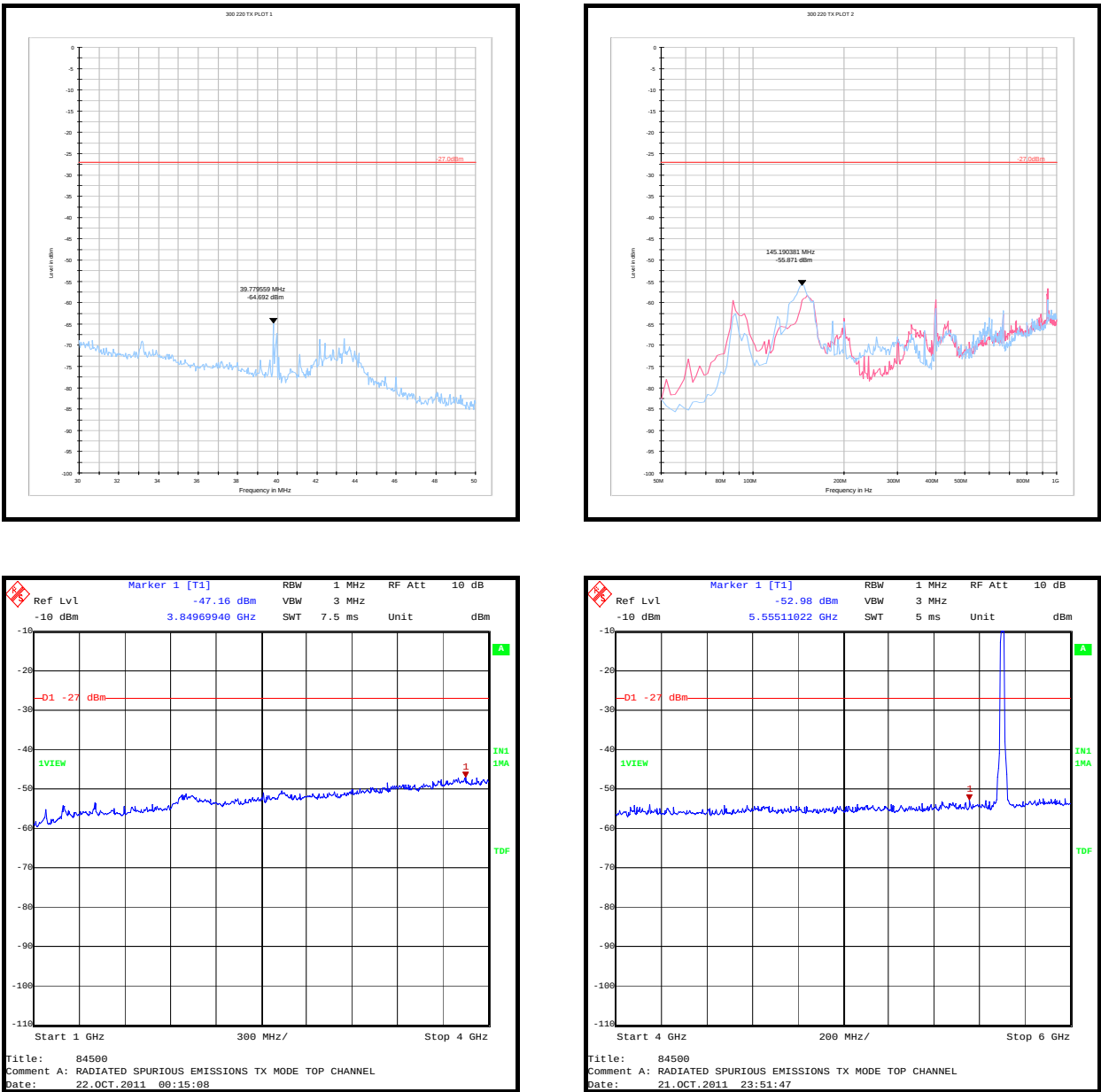
Results:

Frequency (GHz)	Antenna Polarity	Level (dBm)	Limit (dBm/MHz)	Margin (dB)	Result
37.592	Horizontal	-40.8	-27.0	13.8	Complied

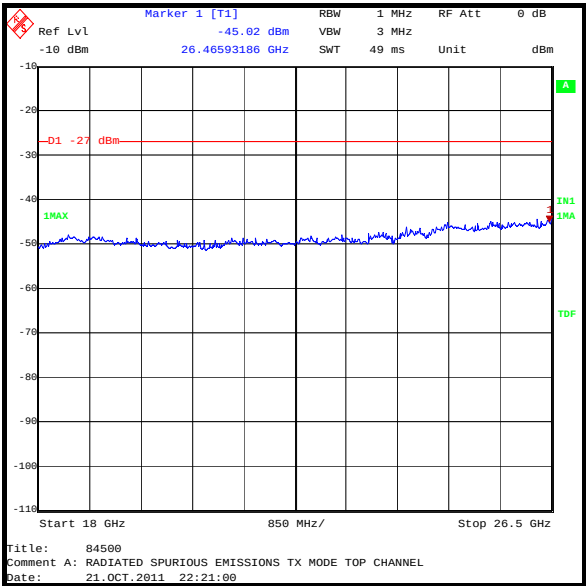
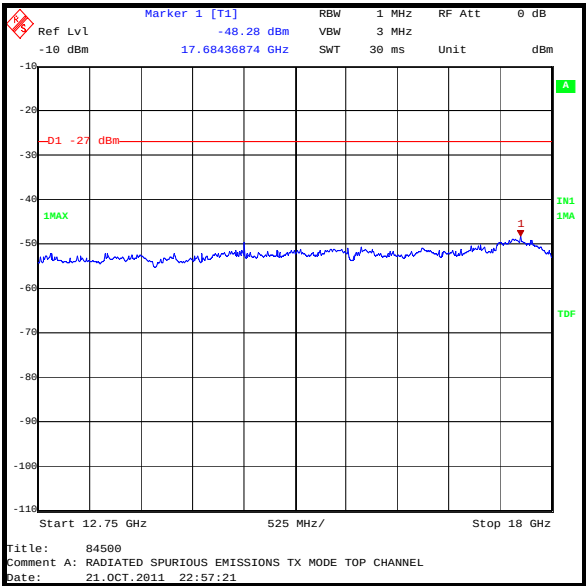
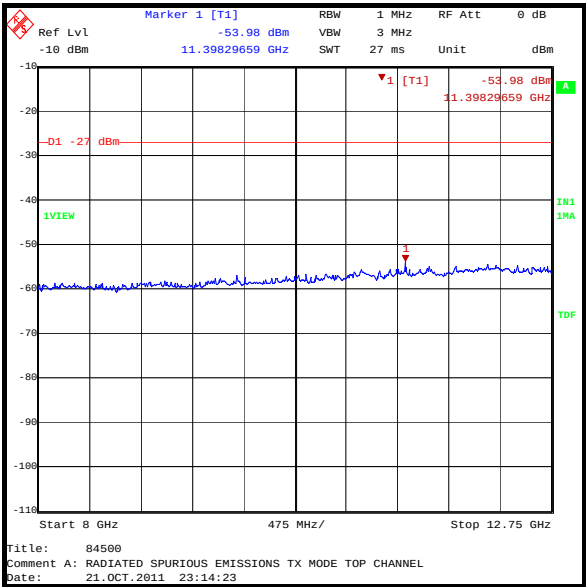
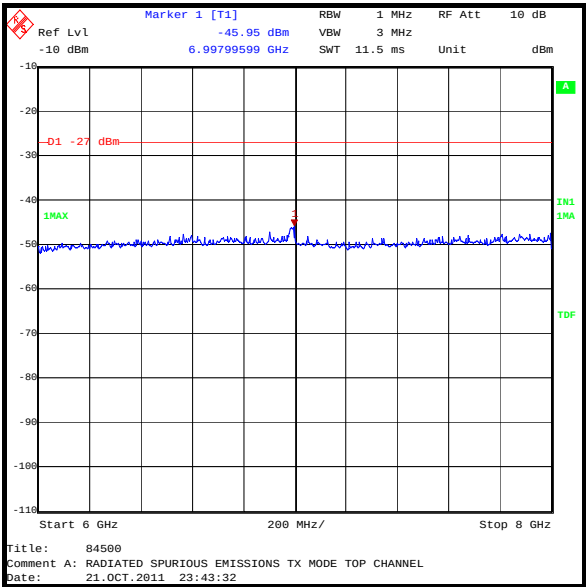
Note(s):

2. All measurements within this section of the report were performed with the ProAnt inside WLAN antenna fitted.
3. The final measured value, for the given emission, in the table above incorporates the calibrated antenna factor and cable loss.
4. The preliminary scans showed similar emission levels below 1 GHz, for each channel of operation. Therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
5. All emissions shown on the pre-scan plot were investigated and found to be ambient or >20 dB below the applicable limit or below the measurement system noise floor.
6. The emission shown on the 4 GHz to 6 GHz plot is the EUT fundamental.
7. Pre-scans above 1 GHz were performed in a fully anechoic chamber (RFI Asset Number K0002) at a distance of 3 metres. The EUT was placed at a height of 1.5 metres above the test chamber floor in the centre of the chamber turntable. All measurement antennas were placed at a fixed height of 1.5 metres above the test chamber floor, in line with the EUT. Final measurements above 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.

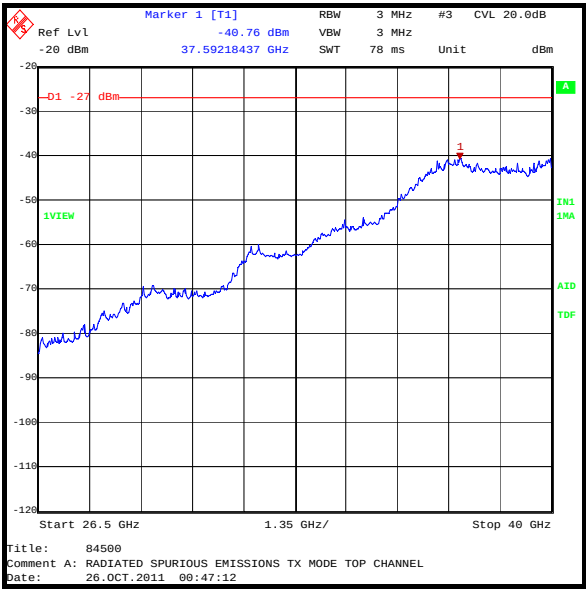
Transmitter Out of Band Radiated Emissions 5.500-5.700 GHz band (continued)



Transmitter Out of Band Radiated Emissions 5.500-5.700 GHz band (continued)



Transmitter Out of Band Radiated Emissions 5.500-5.700 GHz band (continued)



Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

5.2.12. Transmitter Band Edge Radiated Emissions**Results - 5.260 to 5.320 GHz band****Test Summary:**

Test Engineer:	Patrick Jones	Test Date:	28 October 2011
Test Sample Serial No:	Id3		

FCC/IC Part:	15.407(b) / 15.209(a) and RSS-Gen 4.9 / RSS-210 A9.3(2 & 3)
Test Method Used:	As detailed in ANSI C63.10 Section 6.9.2 referencing FCC Part 15.407(b)(5)

Environmental Conditions:

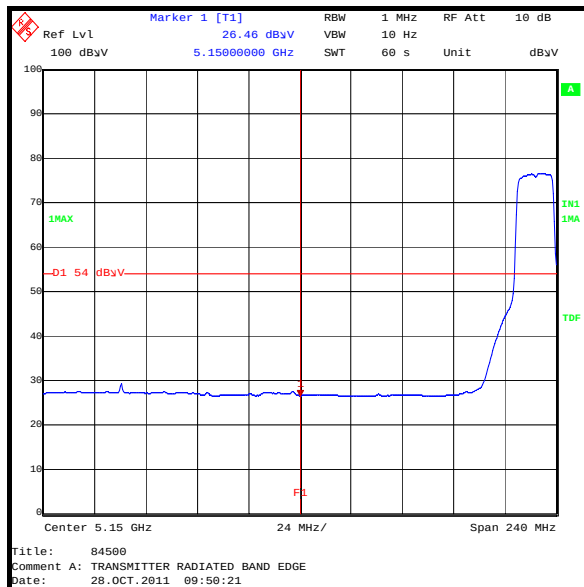
Temperature (°C):	24
Relative Humidity (%):	32

Note(s):

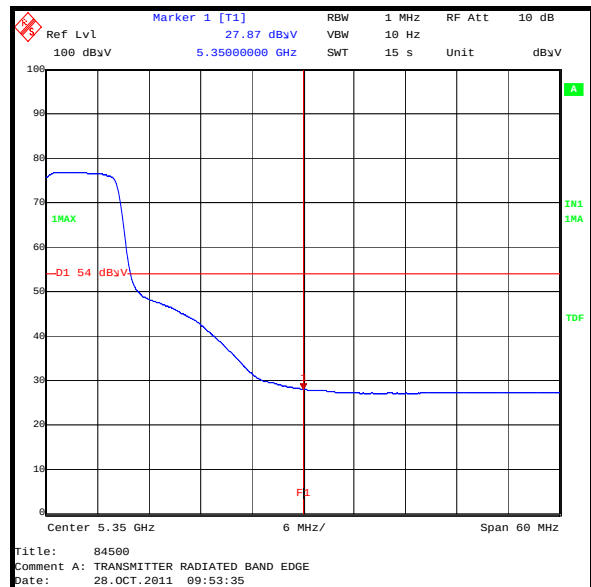
1. All measurements within this section of the report were performed with the ProAnt inside WLAN antenna fitted.

Transmitter Band Edge Radiated Emissions (continued)**Results - 802.11a – 5.260 to 5.320 GHz band**

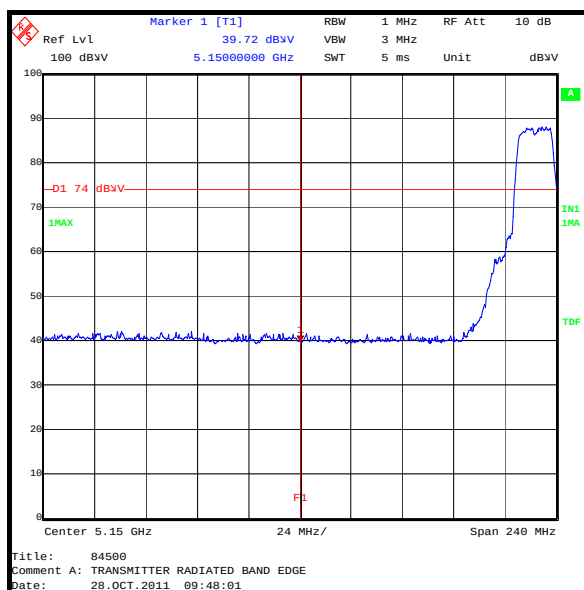
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak/Average	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5260	BPSK	6	Average	26.5	54.0	27.5	Complied
5260	BPSK	6	Peak	39.7	74.0	34.3	Complied
5320	BPSK	6	Average	27.9	54.0	26.1	Complied
5320	BPSK	6	Peak	45.1	74.0	28.9	Complied
5260	BPSK	9	Average	26.5	54.0	27.5	Complied
5260	BPSK	9	Peak	38.8	74.0	35.2	Complied
5320	BPSK	9	Average	28.0	54.0	26.0	Complied
5320	BPSK	9	Peak	48.4	74.0	25.6	Complied
5260	QPSK	12	Average	26.5	54.0	27.5	Complied
5260	QPSK	12	Peak	39.0	74.0	35.0	Complied
5320	QPSK	12	Average	27.6	54.0	26.4	Complied
5320	QPSK	12	Peak	44.9	74.0	29.1	Complied
5260	QPSK	18	Average	26.4	54.0	27.6	Complied
5260	QPSK	18	Peak	39.5	74.0	34.5	Complied
5320	QPSK	18	Average	27.7	54.0	26.3	Complied
5320	QPSK	18	Peak	43.4	74.0	30.6	Complied
5260	16QAM	24	Average	26.4	54.0	27.6	Complied
5260	16QAM	24	Peak	38.8	74.0	35.2	Complied
5320	16QAM	24	Average	27.5	54.0	26.5	Complied
5320	16QAM	24	Peak	43.6	74.0	30.4	Complied
5260	16QAM	36	Average	26.4	54.0	27.6	Complied
5260	16QAM	36	Peak	38.8	74.0	35.2	Complied
5320	16QAM	36	Average	27.6	54.0	26.4	Complied
5320	16QAM	36	Peak	42.8	74.0	31.2	Complied
5260	64QAM	48	Average	26.4	54.0	27.6	Complied
5260	64QAM	48	Peak	38.8	74.0	35.2	Complied
5320	64QAM	48	Average	27.5	54.0	26.5	Complied
5320	64QAM	48	Peak	41.9	74.0	32.1	Complied
5260	64QAM	54	Average	26.4	54.0	27.6	Complied
5260	64QAM	54	Peak	39.3	74.0	34.7	Complied
5320	64QAM	54	Average	27.6	54.0	26.4	Complied
5320	64QAM	54	Peak	42.8	74.0	31.2	Complied

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

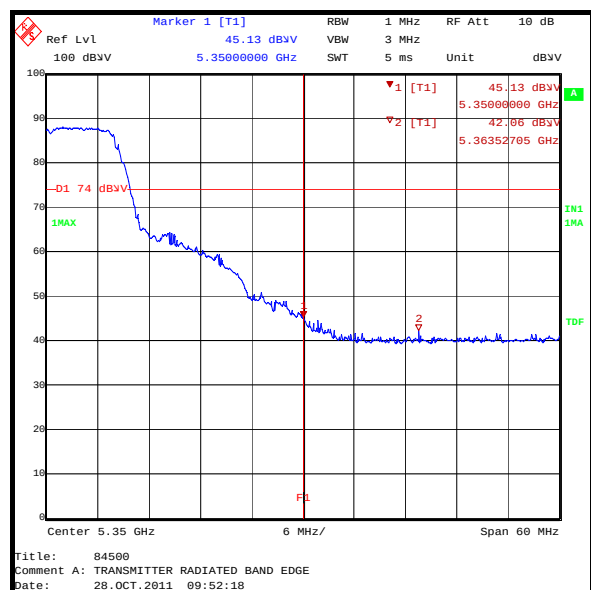
802.11a 5260 MHz 6 Mbps Average Plot



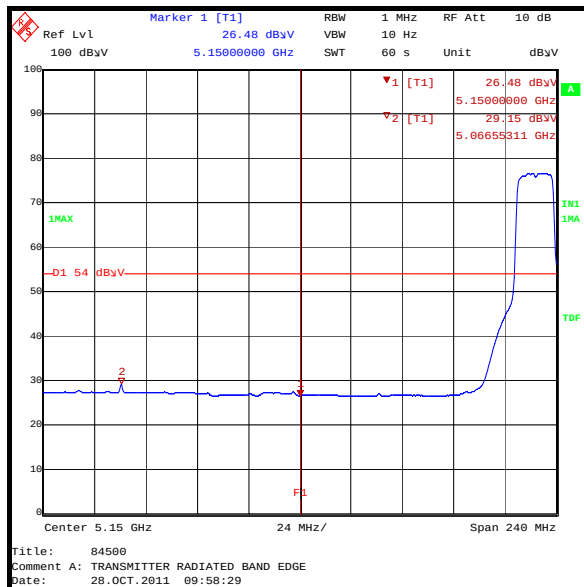
802.11a 5320 MHz 6 Mbps Average Plot



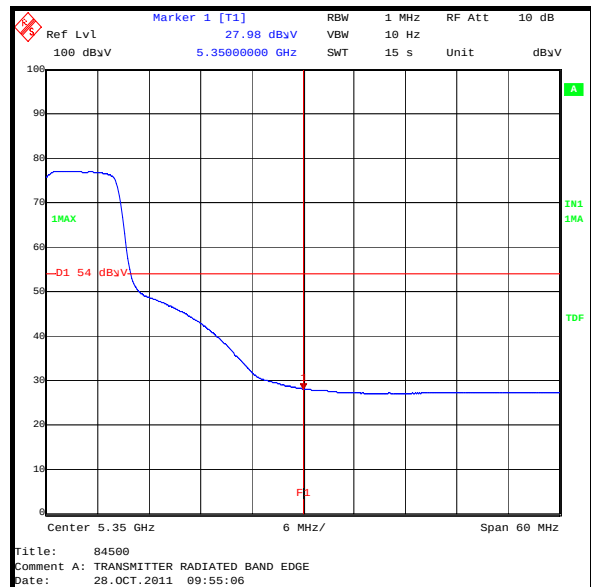
802.11a 5260 MHz 6 Mbps Peak Plot



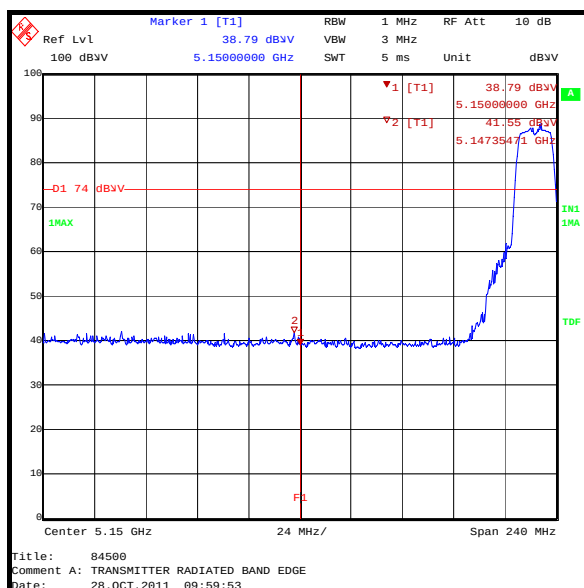
802.11a 5320 MHz 6 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

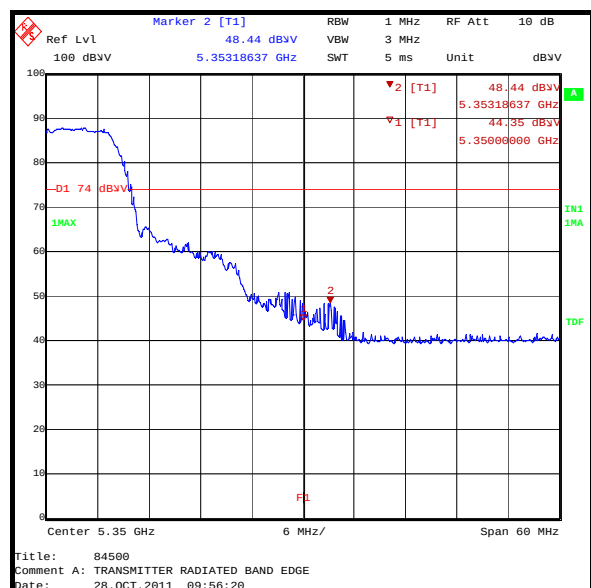
802.11a 5260 MHz 9 Mbps Average Plot



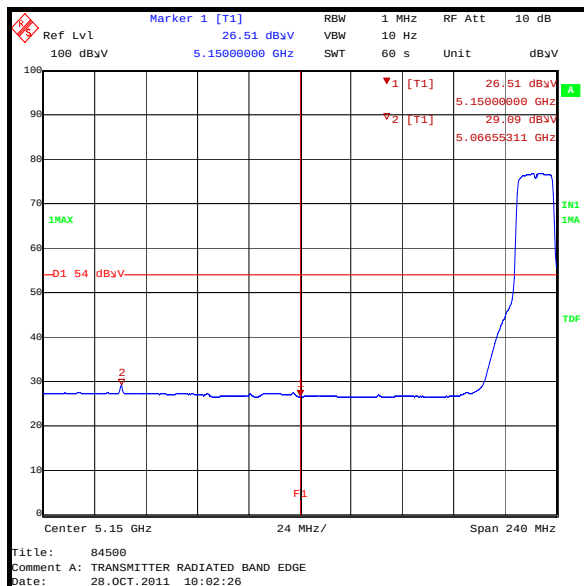
802.11a 5320 MHz 9 Mbps Average Plot



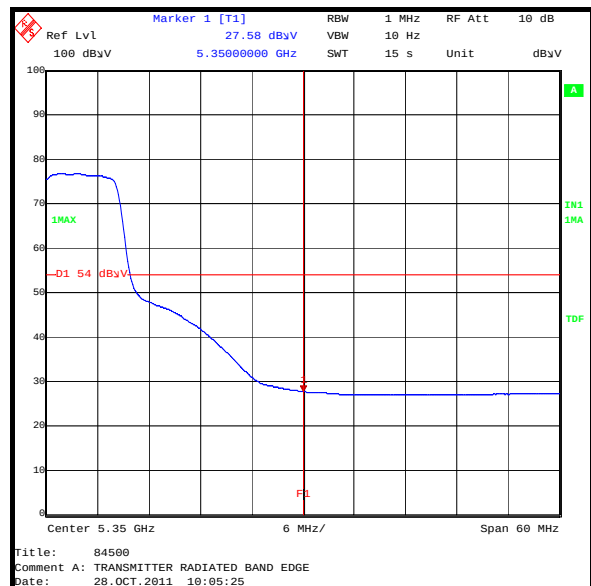
802.11a 5260 MHz 9 Mbps Peak Plot



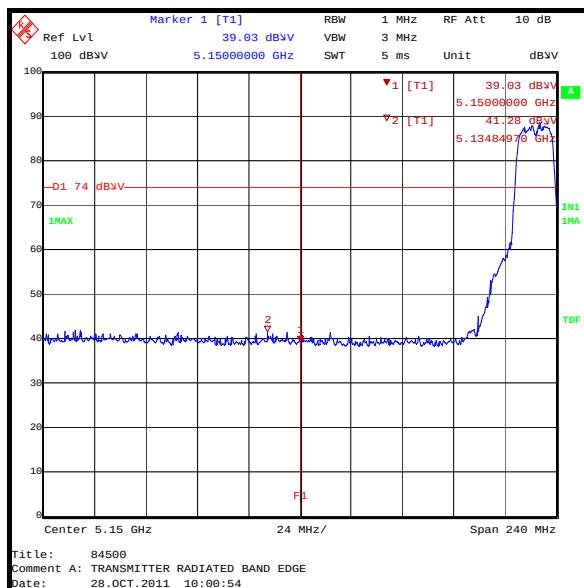
802.11a 5320 MHz 9 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

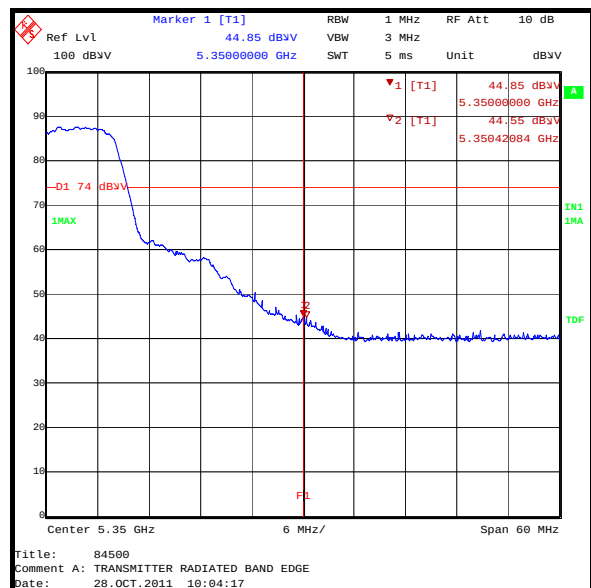
802.11a 5260 MHz 12 Mbps Average Plot



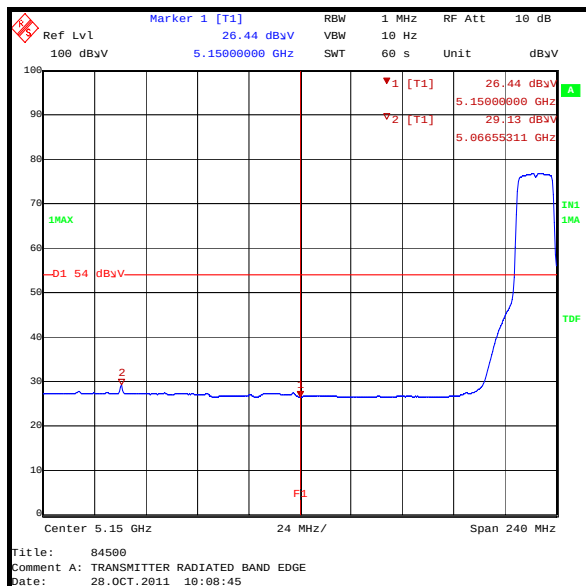
802.11a 5320 MHz 12 Mbps Average Plot



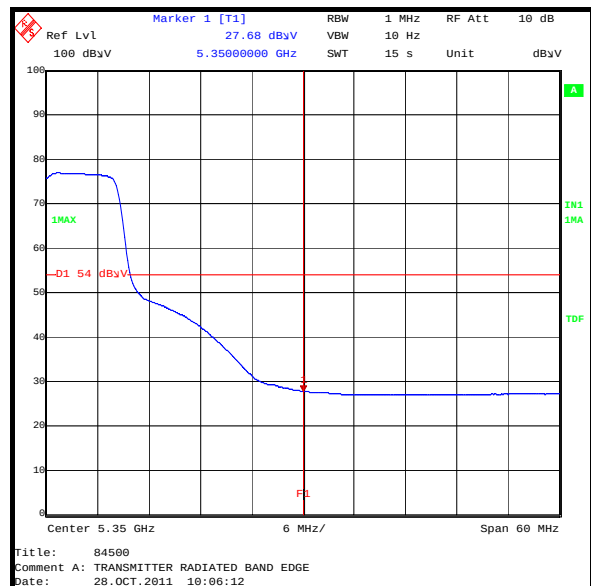
802.11a 5260 MHz 12 Mbps Peak Plot



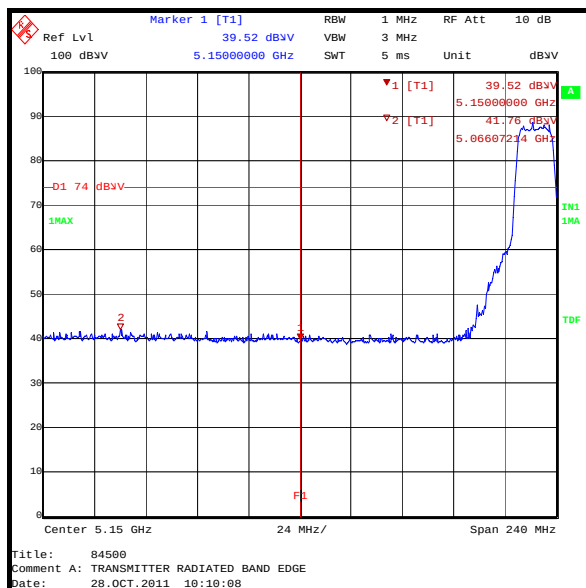
802.11a 5320 MHz 12 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

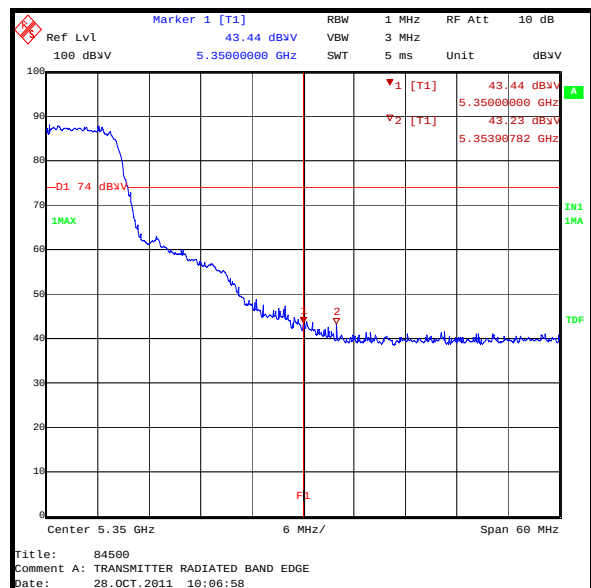
802.11a 5260 MHz 18 Mbps Average Plot



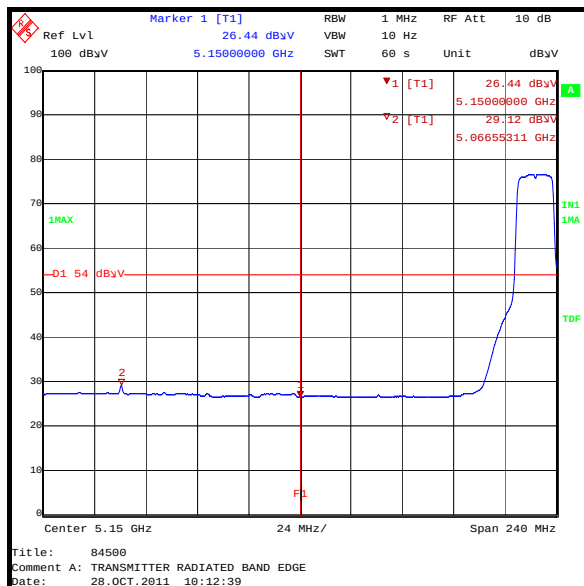
802.11a 5320 MHz 18 Mbps Average Plot



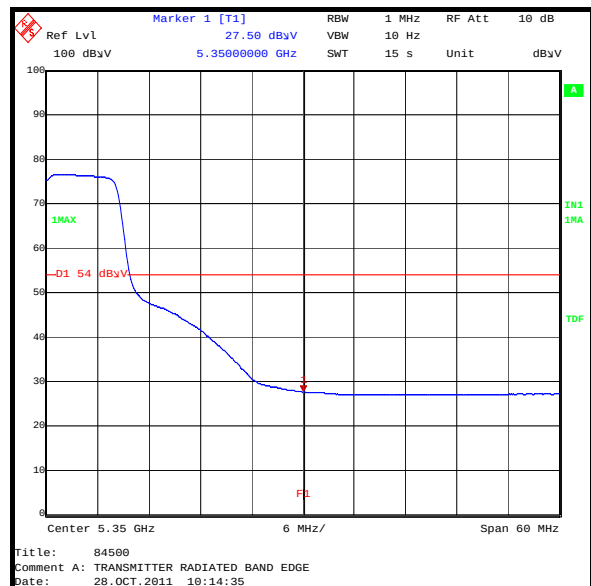
802.11a 5260 MHz 18 Mbps Peak Plot



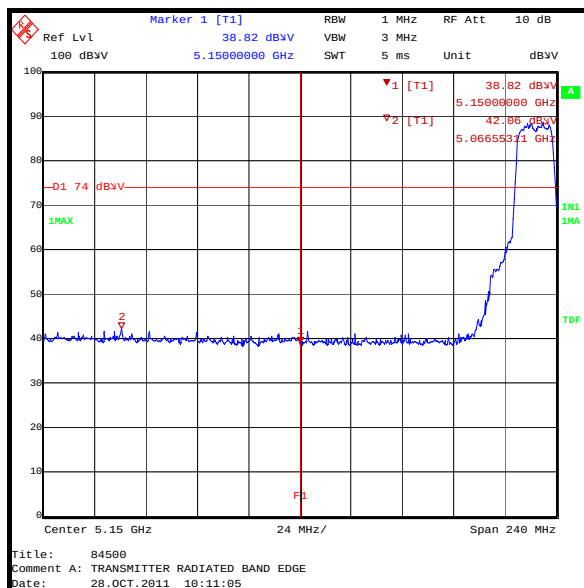
802.11a 5320 MHz 18 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

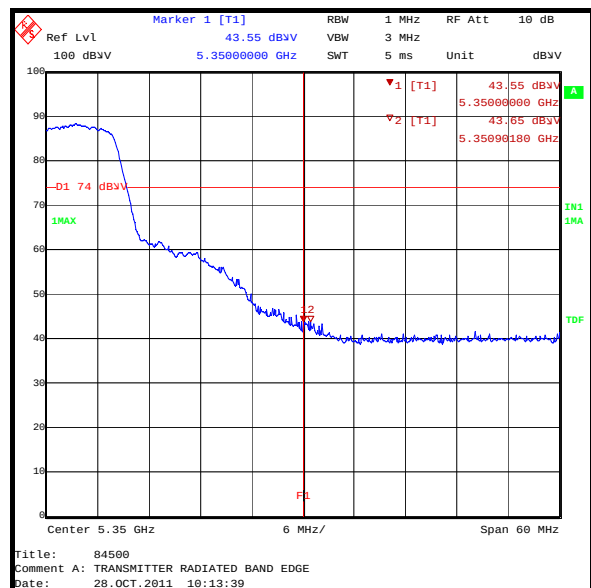
802.11 a 5260 MHz 24 Mbps Average Plot



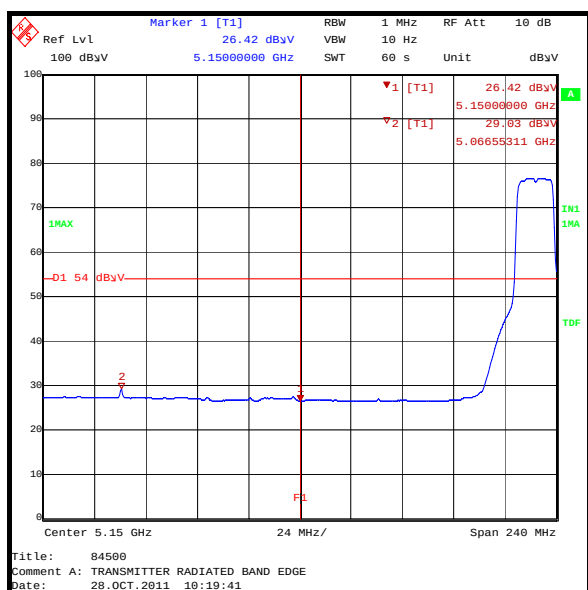
802.11a 5320 MHz 24 Mbps Average Plot



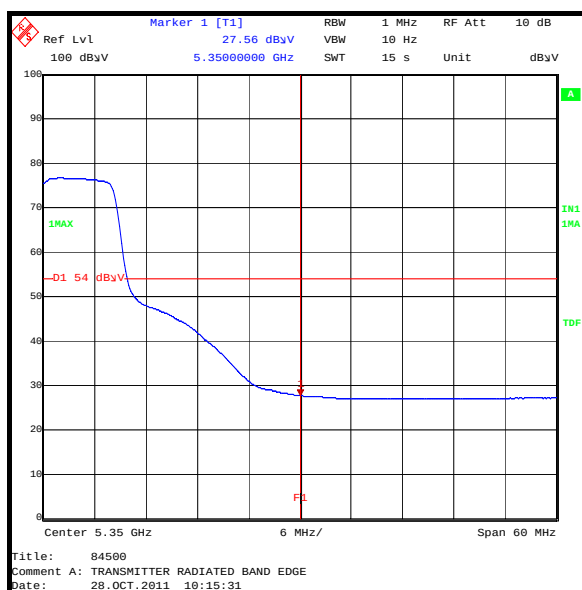
802.11a 5260 MHz 24 Mbps Peak Plot



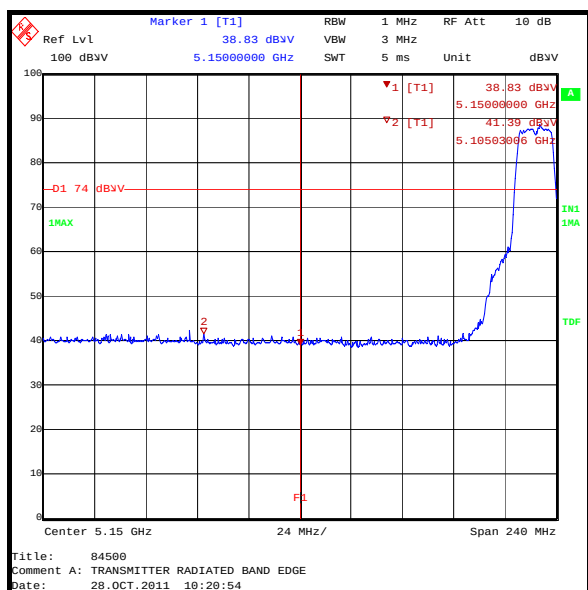
802.11a 5320 MHz 24 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

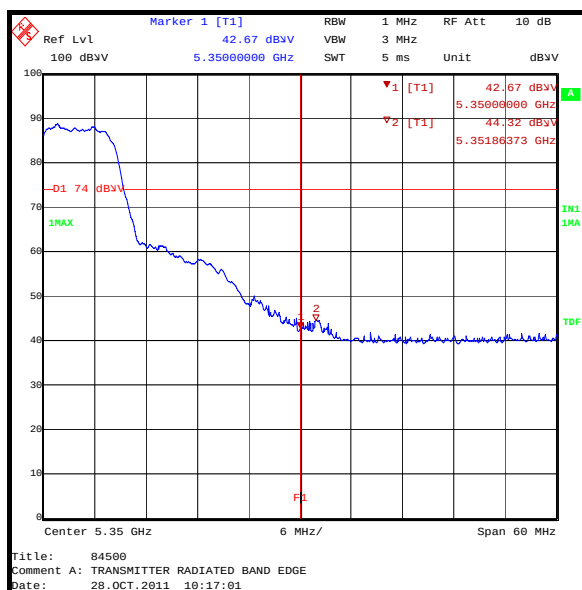
802.11a 5260 MHz 36 Mbps Average Plot



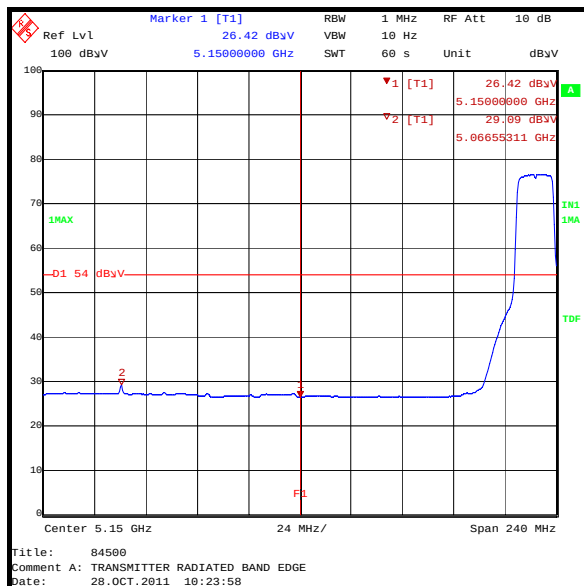
802.11a 5320 MHz 36 Mbps Average Plot



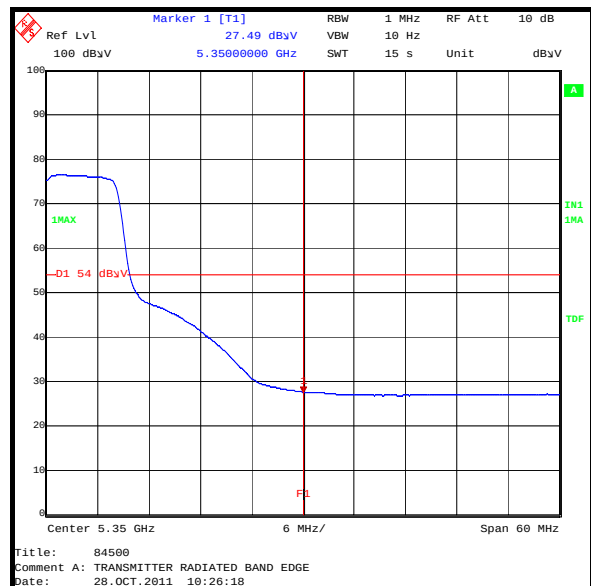
802.11a 5260 MHz 36 Mbps Peak Plot



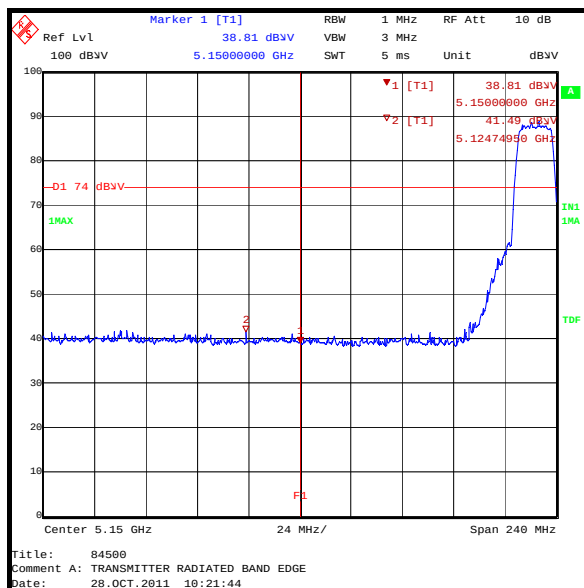
802.11a 5320 MHz 36 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

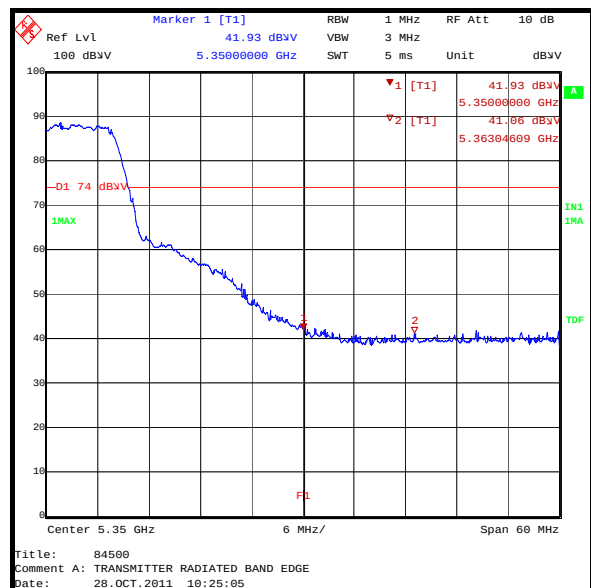
802.11a 5260 MHz 48 Mbps Average Plot



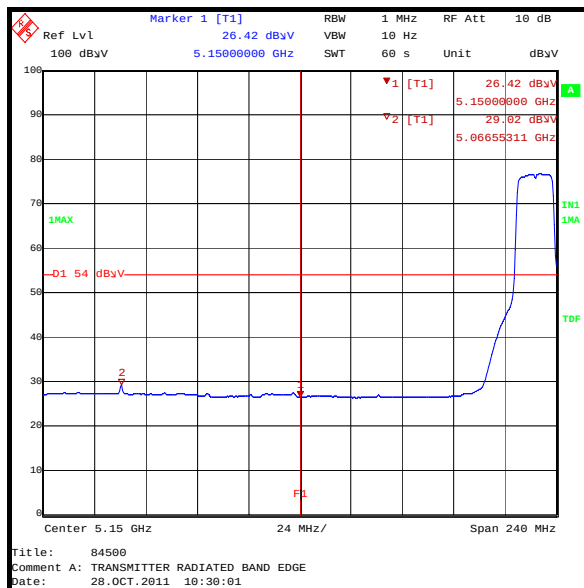
802.11a 5320 MHz 48 Mbps Average Plot



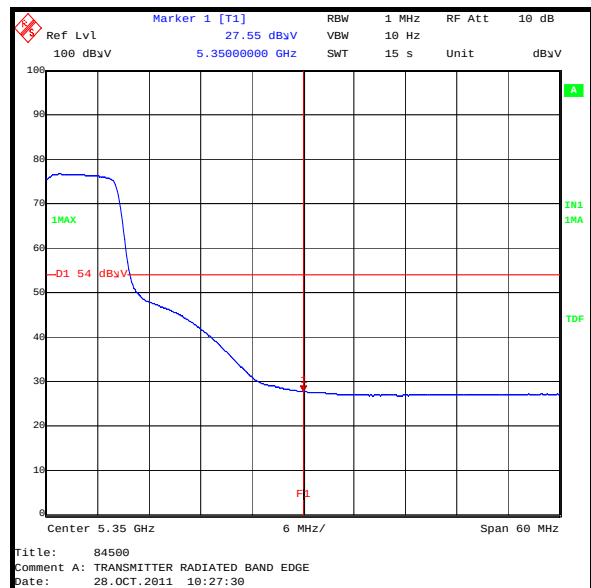
802.11a 5260 MHz 48 Mbps Peak Plot



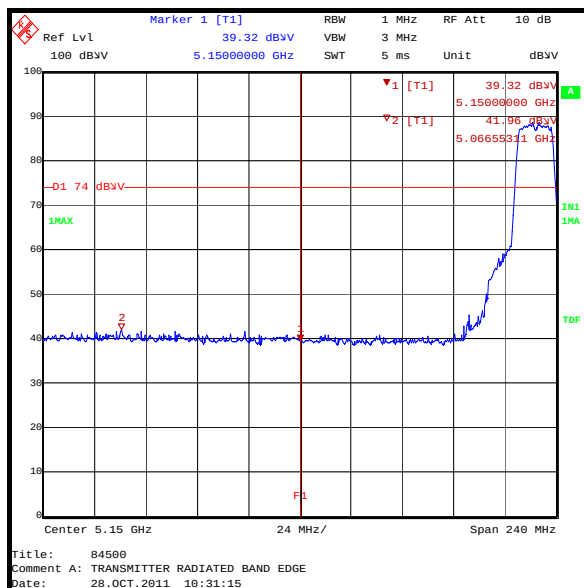
802.11a 5320 MHz 48 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.260 to 5.320 GHz band**

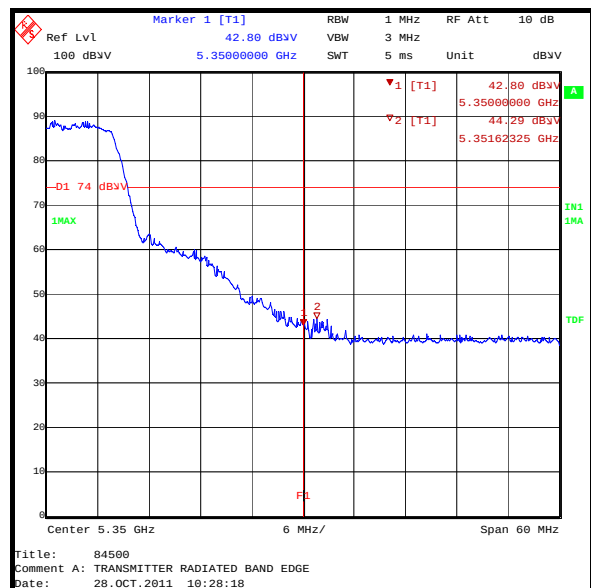
802.11a 5260 MHz 54 Mbps Average Plot



802.11a 5320 MHz 54 Mbps Average Plot



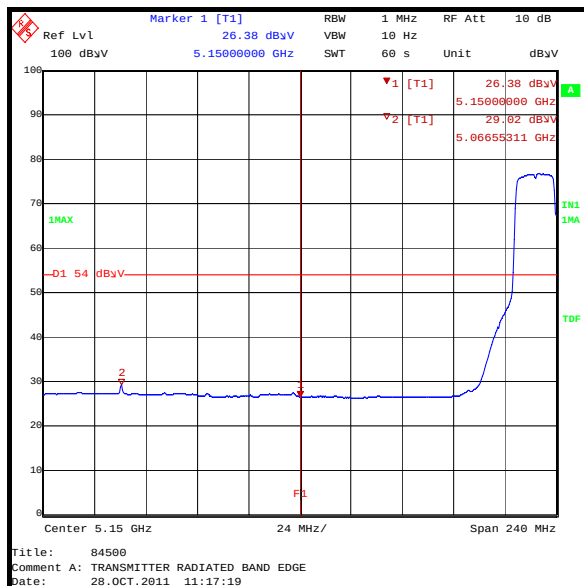
802.11a 5260 MHz 54 Mbps Peak Plot



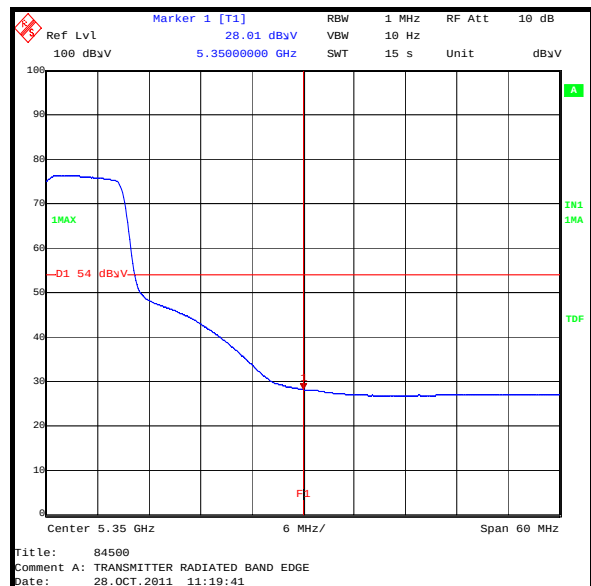
802.11a 5320 MHz 54 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Results - 802.11n – 5.260 to 5.320 GHz band**

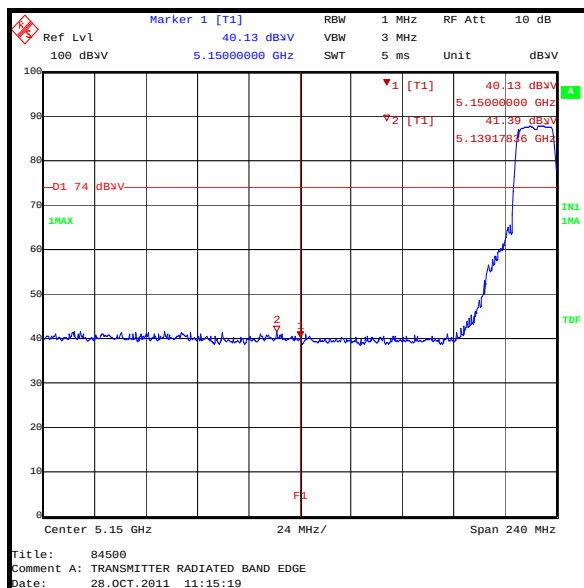
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak/Average	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5260	BPSK	6.5	Average	26.4	54.0	27.6	Complied
5260	BPSK	6.5	Peak	40.1	74.0	33.9	Complied
5320	BPSK	6.5	Average	28.0	54.0	26.0	Complied
5320	BPSK	6.5	Peak	45.3	74.0	28.7	Complied
5260	QPSK	13	Average	26.4	54.0	27.6	Complied
5260	QPSK	13	Peak	38.9	74.0	35.1	Complied
5320	QPSK	13	Average	28.2	54.0	25.8	Complied
5320	QPSK	13	Peak	43.3	74.0	30.7	Complied
5260	QPSK	19.5	Average	26.4	54.0	27.6	Complied
5260	QPSK	19.5	Peak	38.6	74.0	35.4	Complied
5320	QPSK	19.5	Average	28.0	54.0	26.0	Complied
5320	QPSK	19.5	Peak	44.5	74.0	29.5	Complied
5260	16QAM	26	Average	26.4	54.0	27.6	Complied
5260	16QAM	26	Peak	39.3	74.0	34.7	Complied
5320	16QAM	26	Average	28.1	54.0	25.9	Complied
5320	16QAM	26	Peak	45.7	74.0	28.3	Complied
5260	16QAM	39	Average	26.4	54.0	27.6	Complied
5260	16QAM	39	Peak	38.9	74.0	35.1	Complied
5320	16QAM	39	Average	27.9	54.0	26.1	Complied
5320	16QAM	39	Peak	45.8	74.0	28.2	Complied
5260	64QAM	52	Average	26.5	54.0	27.5	Complied
5260	64QAM	52	Peak	39.4	74.0	34.6	Complied
5320	64QAM	52	Average	28.1	54.0	25.9	Complied
5320	64QAM	52	Peak	45.1	74.0	28.9	Complied
5260	64QAM	58.5	Average	26.4	54.0	27.6	Complied
5260	64QAM	58.5	Peak	39.6	74.0	34.4	Complied
5320	64QAM	58.5	Average	28.4	54.0	25.6	Complied
5320	64QAM	58.5	Peak	47.1	74.0	26.9	Complied
5260	64QAM	65	Average	26.4	54.0	27.6	Complied
5260	64QAM	65	Peak	38.7	74.0	35.3	Complied
5320	64QAM	65	Average	28.4	54.0	25.6	Complied
5320	64QAM	65	Peak	46.5	74.0	27.5	Complied

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.260 to 5.320 GHz band**

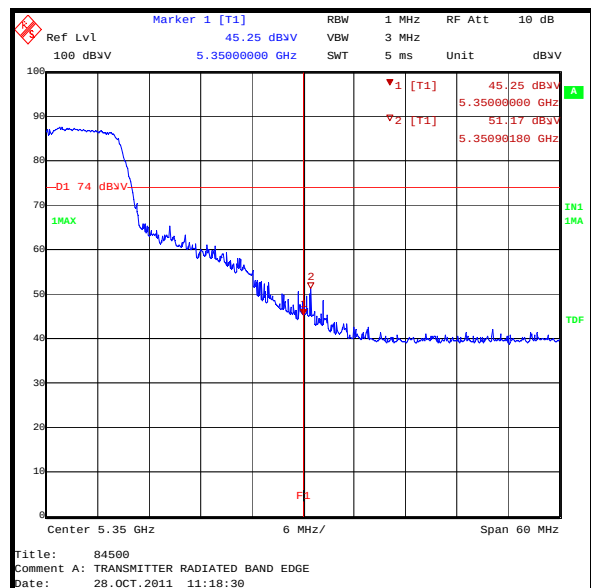
802.11n 5260 MHz 6.5 Mbps Average Plot



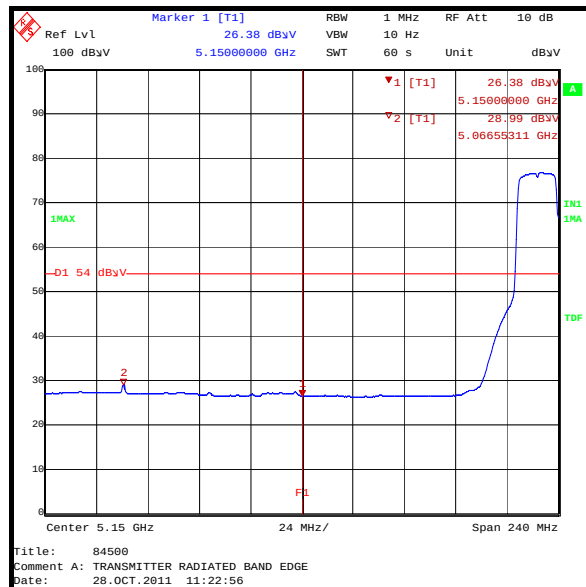
802.11n 5320 MHz 6.5 Mbps Average Plot



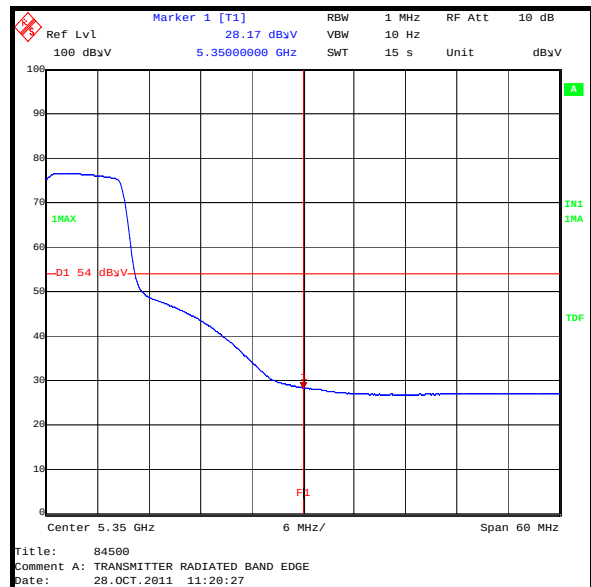
802.11n 5260 MHz 6.5 Mbps Peak Plot



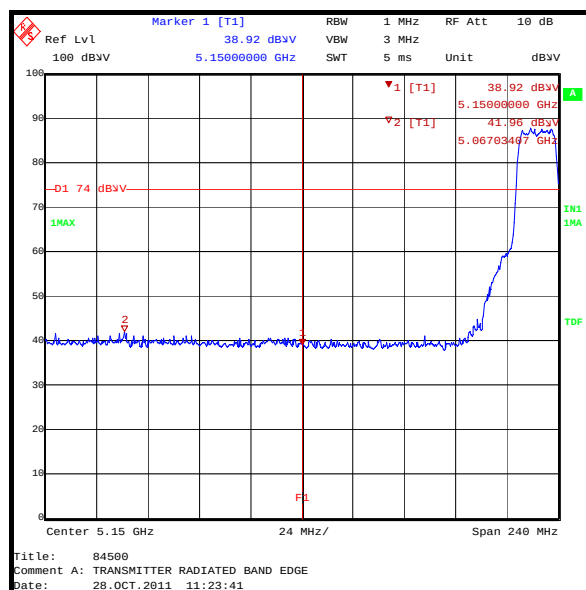
802.11n 5320 MHz 6.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.260 to 5.320 GHz band**

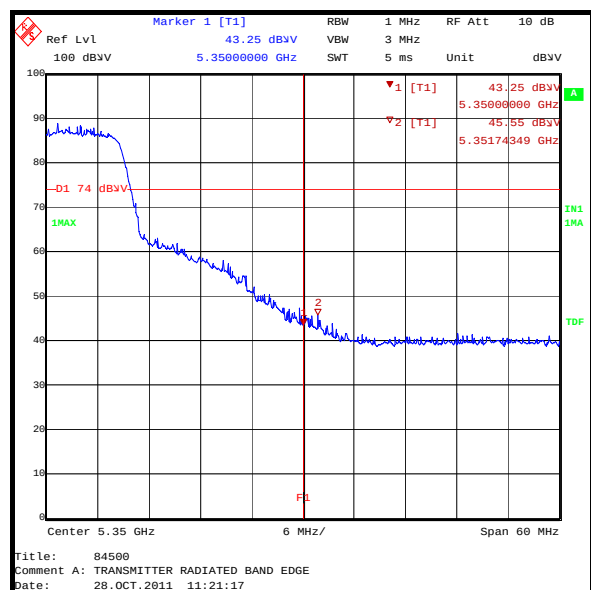
802.11n 5260 MHz 13 Mbps Average Plot



802.11n 5320 MHz 13 Mbps Average Plot



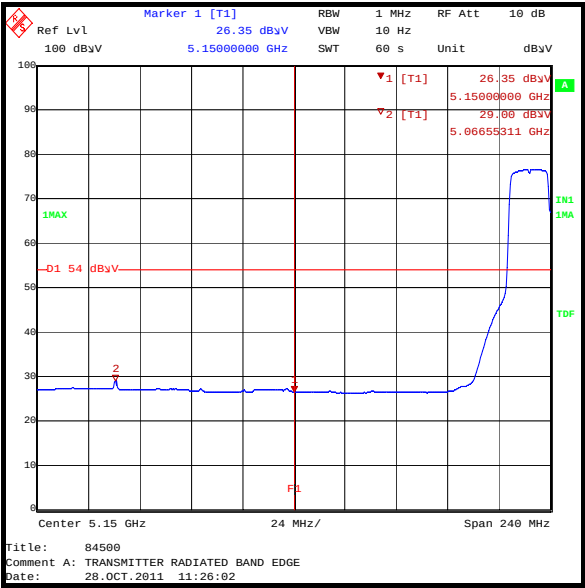
802.11n 5260 MHz 13 Mbps Peak Plot



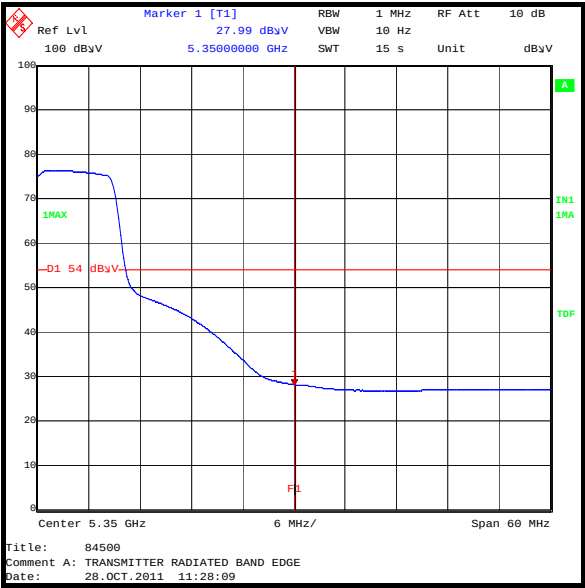
802.11n 5320 MHz 13 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

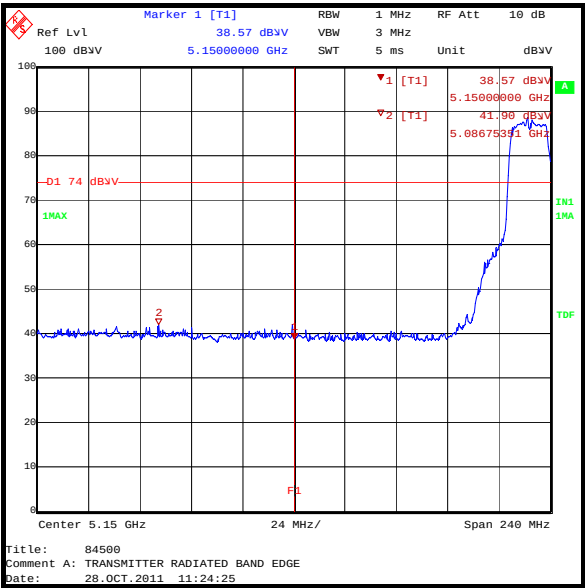
Plots - 802.11n – 5.260 to 5.320 GHz band



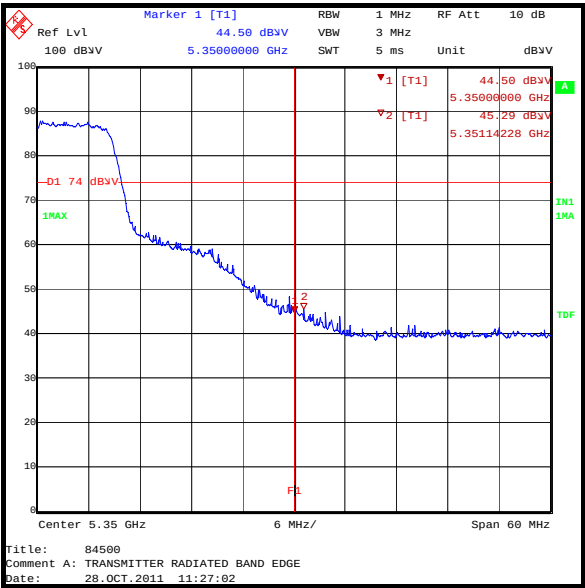
802.11n 5260 MHz 19.5 Mbps Average Plot



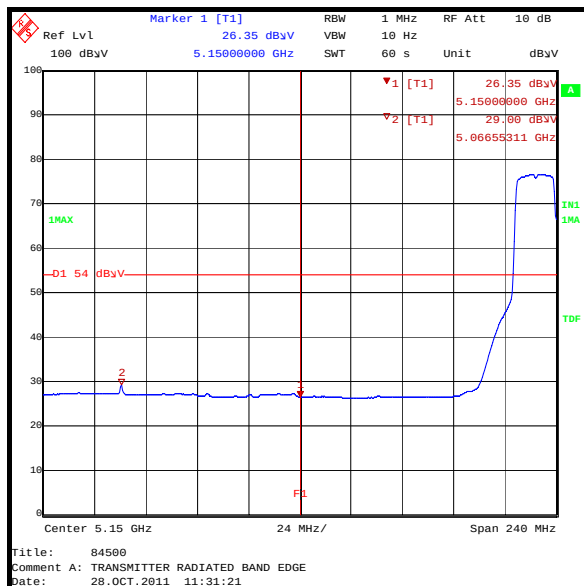
802.11n 5320 MHz 19.5 Mbps Average Plot



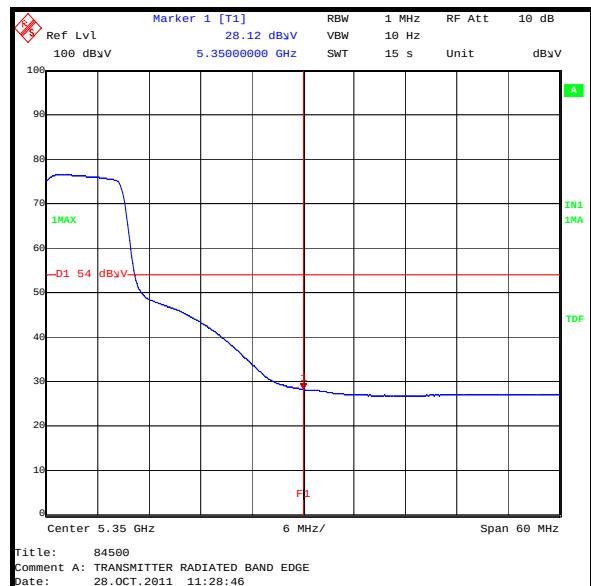
802.11n 5260 MHz 19.5 Mbps Peak Plot



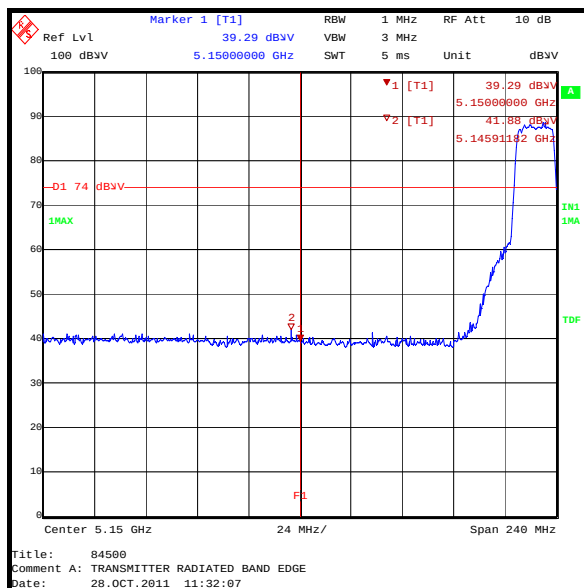
802.11n 5320 MHz 19.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.260 to 5.320 GHz band**

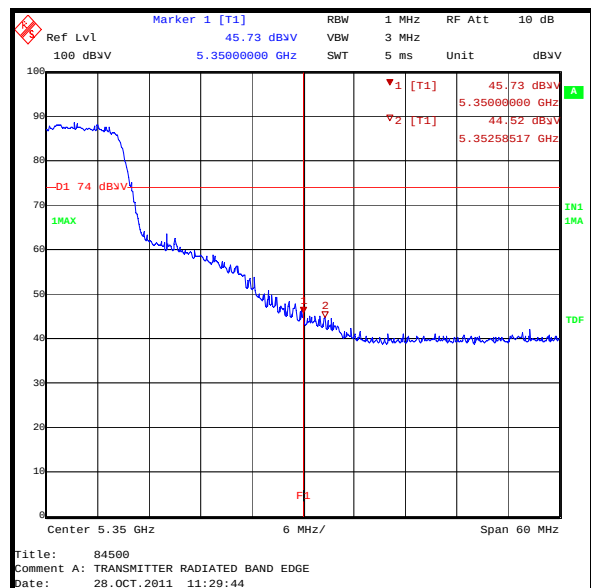
802.11n 5260 MHz 26 Mbps Average Plot



802.11n 5320 MHz 26 Mbps Average Plot



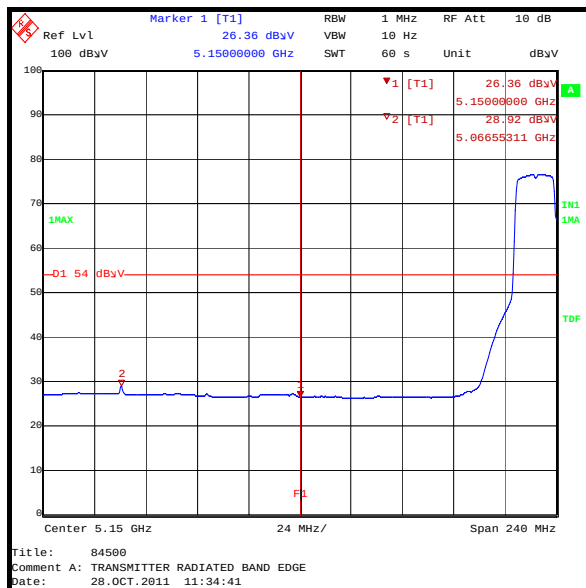
802.11n 5260 MHz 26 Mbps Peak Plot



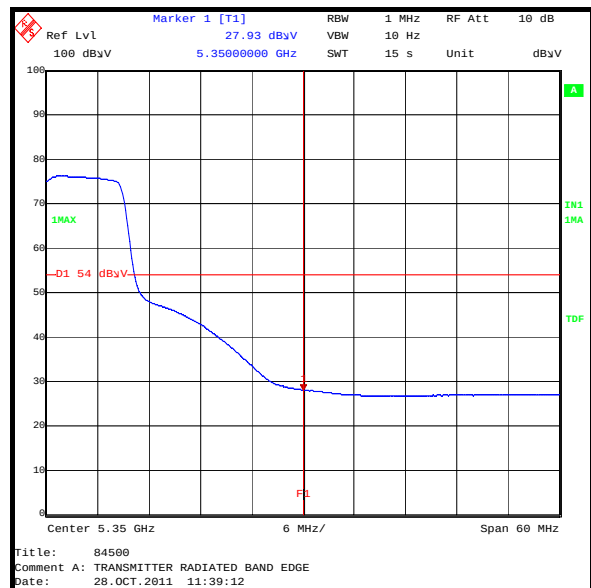
802.11n 5320 MHz 26 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

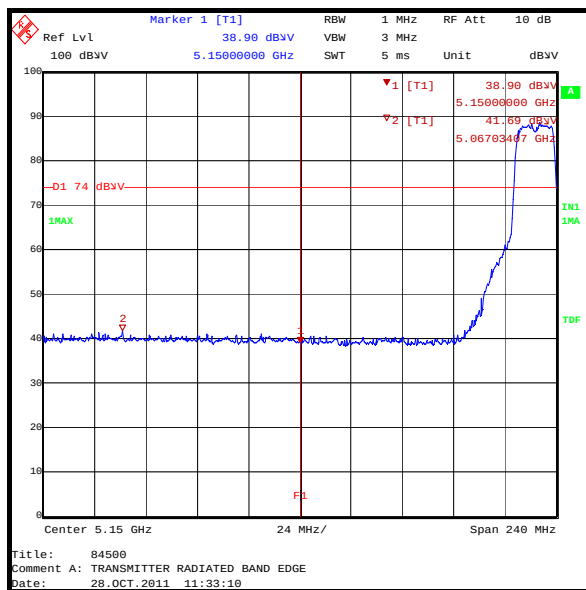
Plots - 802.11n – 5.260 to 5.320 GHz band



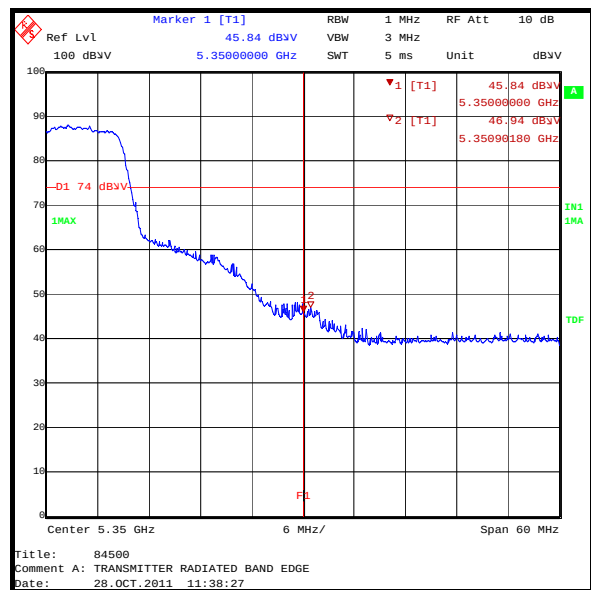
802.11n 5260 MHz 39 Mbps Average Plot



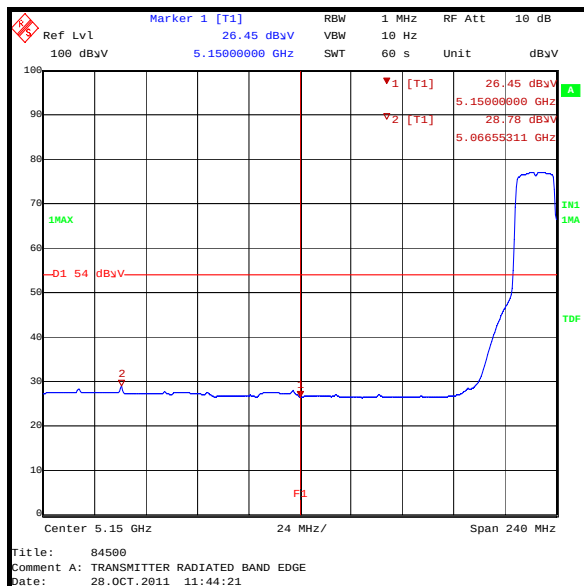
802.11n 5320 MHz 39 Mbps Average Plot



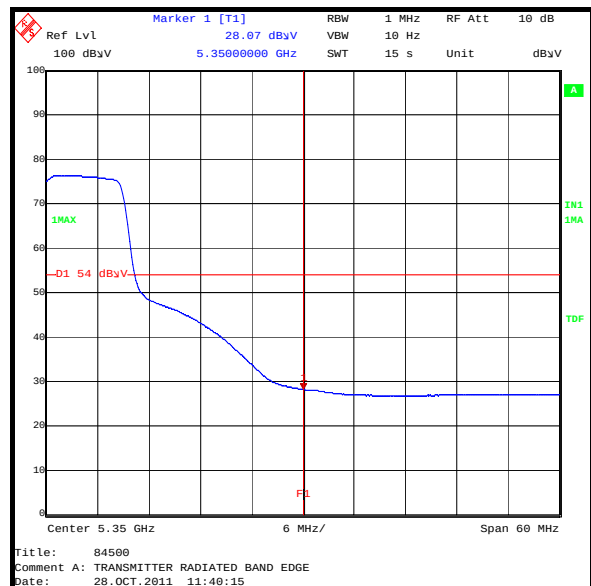
802.11n 5260 MHz 39 Mbps Peak Plot



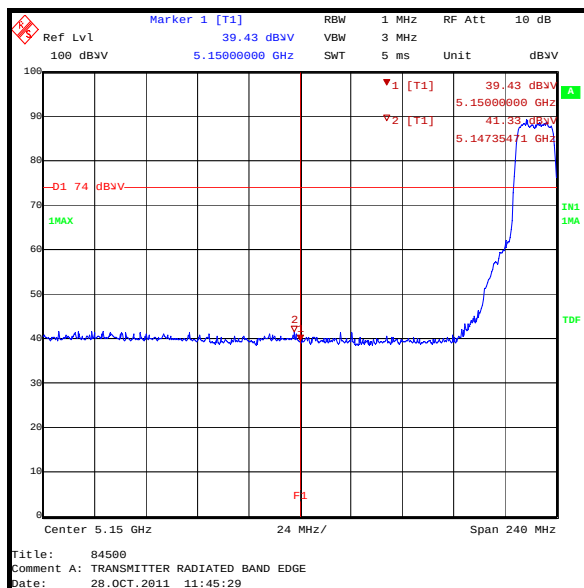
802.11n 5320 MHz 39 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.260 to 5.320 GHz band**

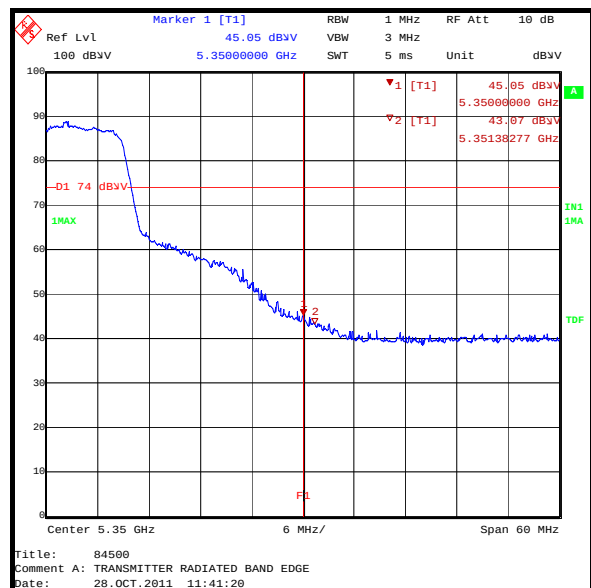
802.11n 5260 MHz 52 Mbps Average Plot



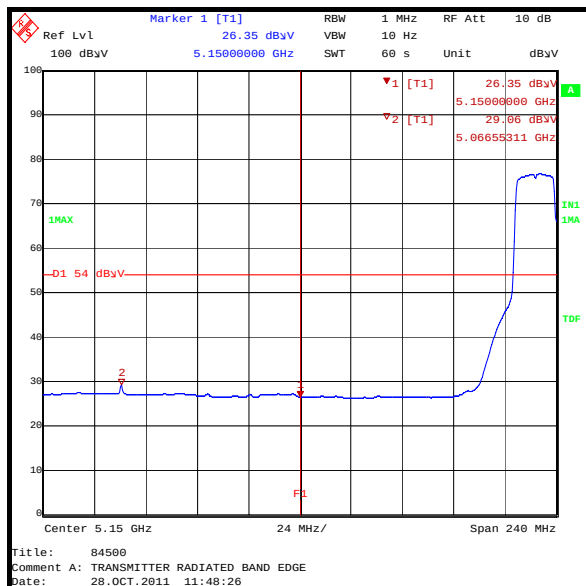
802.11n 5320 MHz 52 Mbps Average Plot



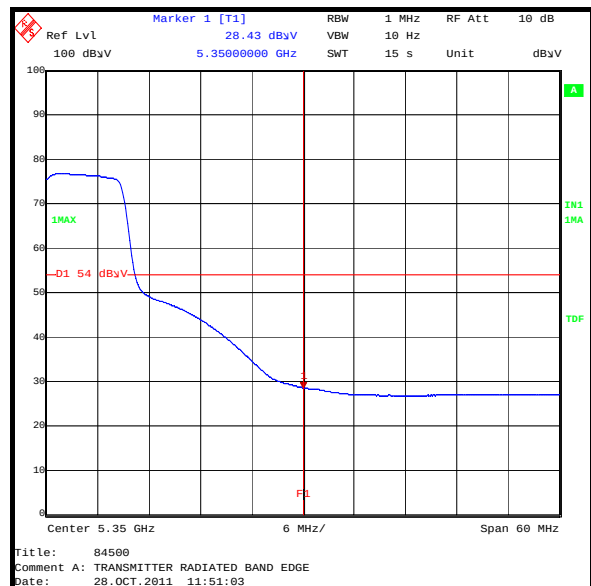
802.11n 5260 MHz 52 Mbps Peak Plot



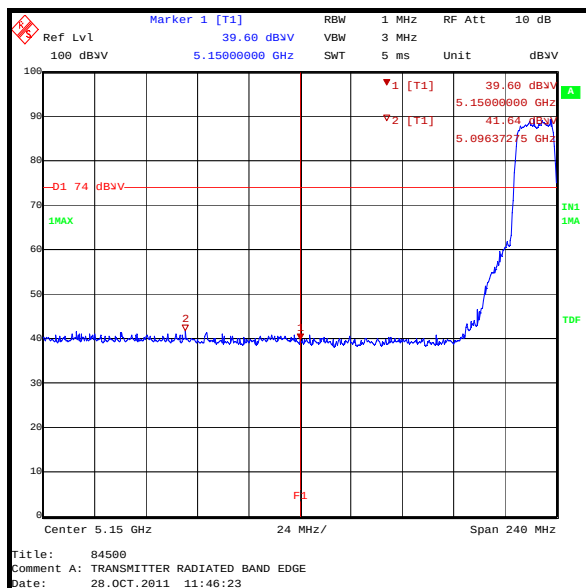
802.11n 5320 MHz 52 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.260 to 5.320 GHz band**

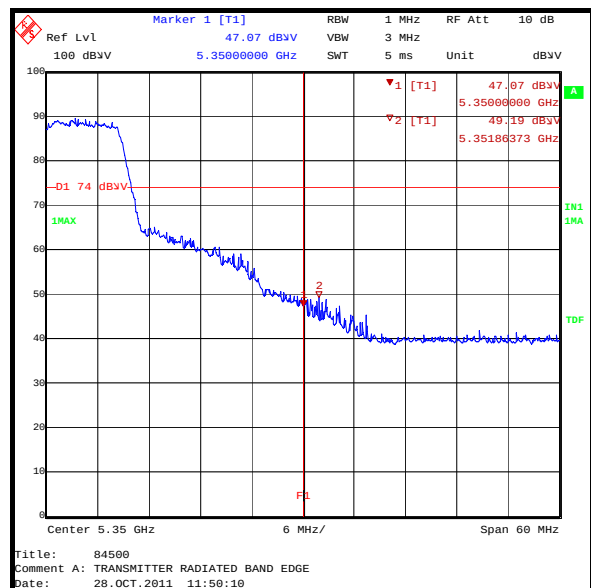
802.11n 5260 MHz 58.5 Mbps Average Plot



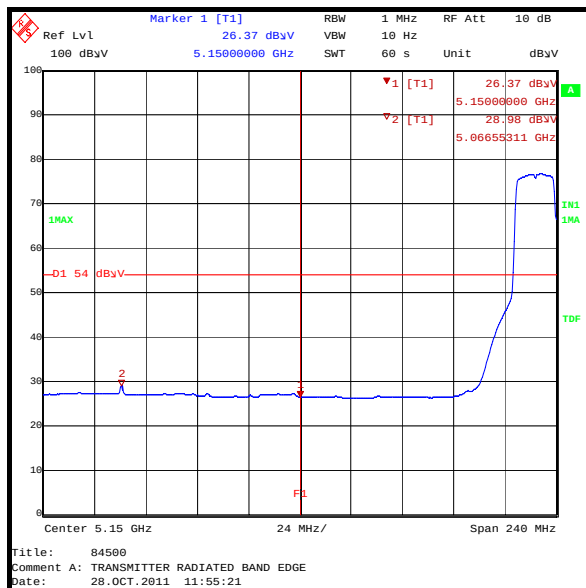
802.11n 5320 MHz 58.5 Mbps Average Plot



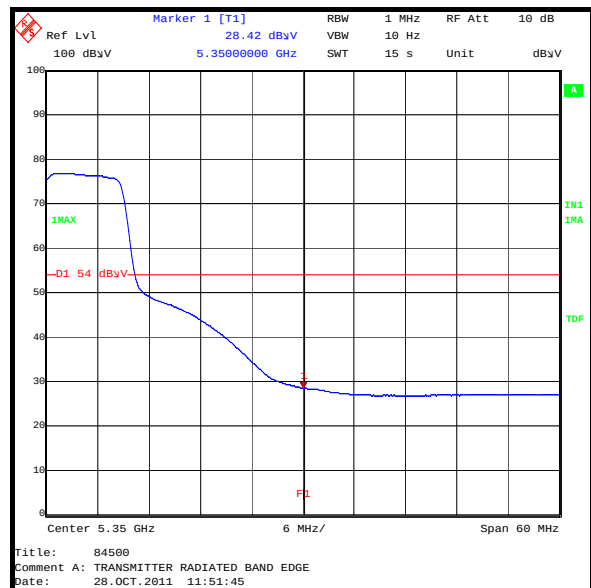
802.11n 5260 MHz 58.5 Mbps Peak Plot



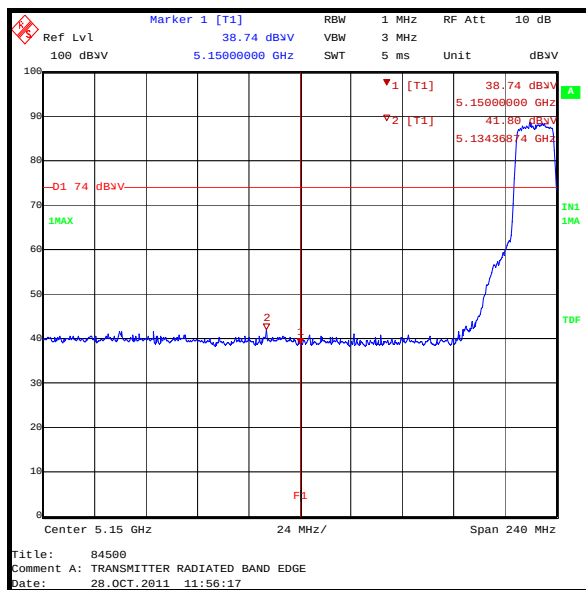
802.11n 5320 MHz 58.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n 5.260 to 5.320 GHz band**

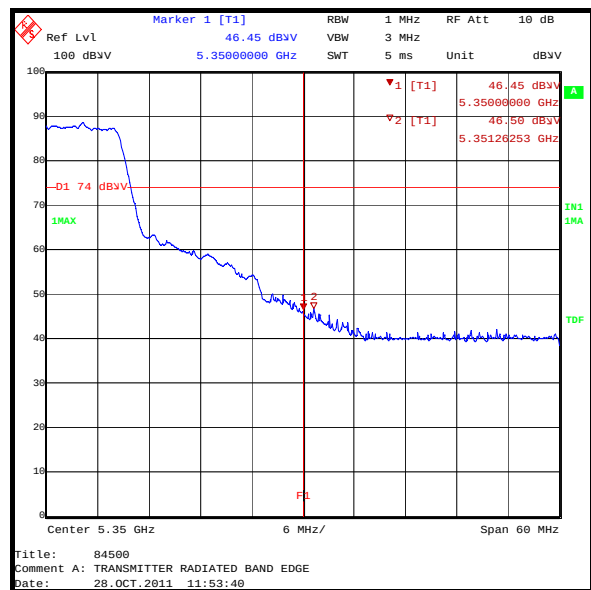
802.11n 5260 MHz 65 Mbps Average Plot



802.11n 5320 MHz 65 Mbps Average Plot



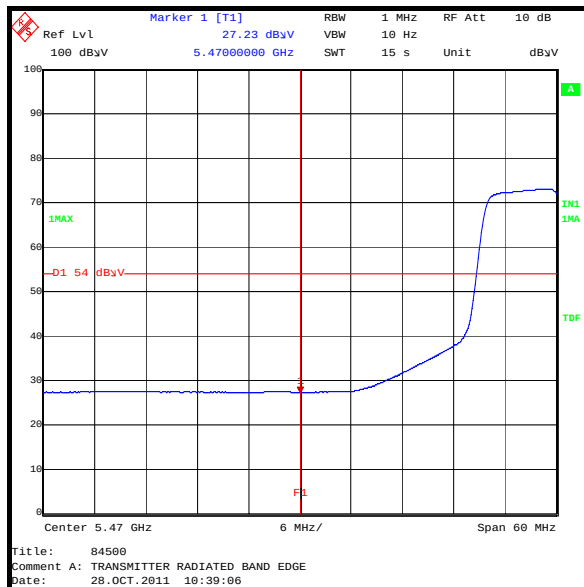
802.11n 5260 MHz 65 Mbps Peak Plot



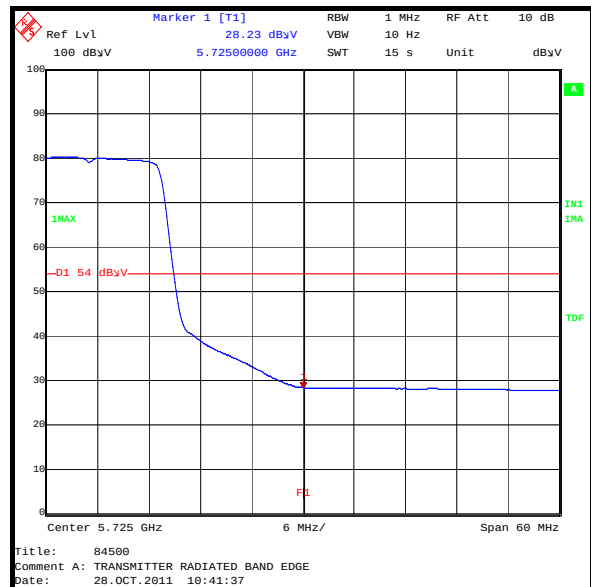
802.11n 5320 MHz 65 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Results - 802.11a - 5.500 to 5.700 GHz band**

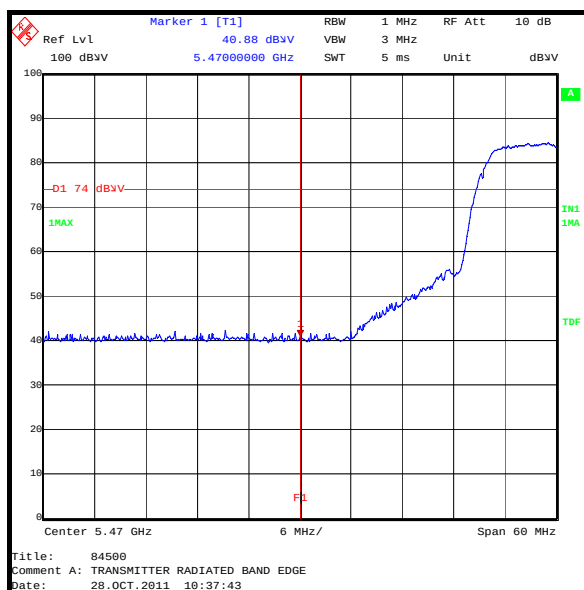
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Peak/Average	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5500	BPSK	6	Average	27.2	54.0	26.8	Complied
5500	BPSK	6	Peak	40.9	74.0	33.1	Complied
5700	BPSK	6	Average	28.2	54.0	25.8	Complied
5700	BPSK	6	Peak	42.9	74.0	31.1	Complied
5500	BPSK	9	Average	27.2	54.0	26.8	Complied
5500	BPSK	9	Peak	39.3	74.0	34.7	Complied
5700	BPSK	9	Average	28.3	54.0	25.7	Complied
5700	BPSK	9	Peak	42.1	74.0	31.9	Complied
5500	QPSK	12	Average	27.2	54.0	26.8	Complied
5500	QPSK	12	Peak	39.7	74.0	34.3	Complied
5700	QPSK	12	Average	28.3	54.0	25.7	Complied
5700	QPSK	12	Peak	40.9	74.0	33.1	Complied
5500	QPSK	18	Average	27.2	54.0	26.8	Complied
5500	QPSK	18	Peak	39.9	74.0	34.1	Complied
5700	QPSK	18	Average	28.3	54.0	25.7	Complied
5700	QPSK	18	Peak	40.6	74.0	33.4	Complied
5500	16QAM	24	Average	27.2	54.0	26.8	Complied
5500	16QAM	24	Peak	39.3	74.0	34.7	Complied
5700	16QAM	24	Average	28.2	54.0	25.8	Complied
5700	16QAM	24	Peak	42.0	74.0	32.0	Complied
5500	16QAM	36	Average	27.2	54.0	26.8	Complied
5500	16QAM	36	Peak	41.0	74.0	33.0	Complied
5700	16QAM	36	Average	28.3	54.0	25.7	Complied
5700	16QAM	36	Peak	42.4	74.0	31.6	Complied
5500	64QAM	48	Average	27.2	54.0	26.8	Complied
5500	64QAM	48	Peak	40.3	74.0	33.7	Complied
5700	64QAM	48	Average	28.3	54.0	25.7	Complied
5700	64QAM	48	Peak	42.2	74.0	31.8	Complied
5500	64QAM	54	Average	27.2	54.0	26.8	Complied
5500	64QAM	54	Peak	39.8	74.0	34.2	Complied
5700	64QAM	54	Average	28.2	54.0	25.8	Complied
5700	64QAM	54	Peak	41.4	74.0	32.6	Complied

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.500 to 5.700 GHz band**

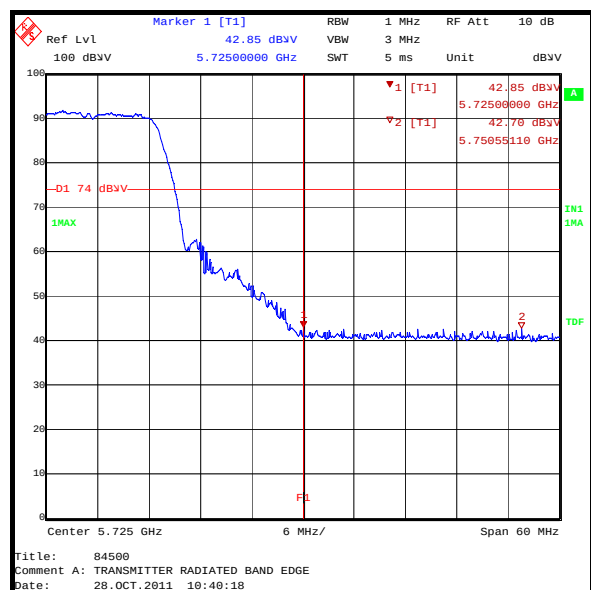
802.11a 5500 MHz 6 Mbps Average Plot



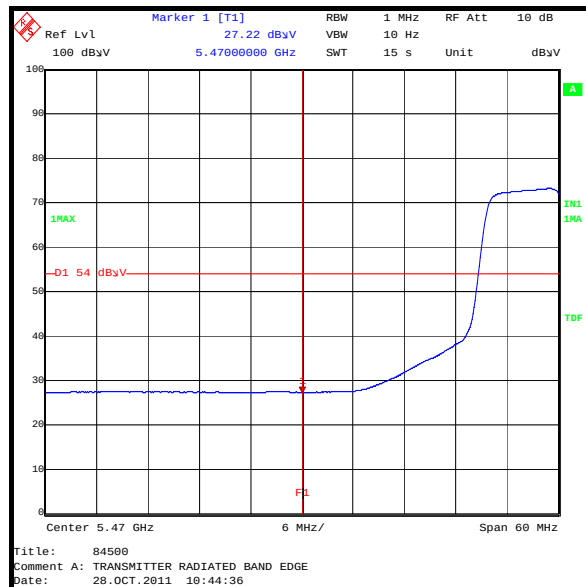
802.11a 5700 MHz 6 Mbps Average Plot



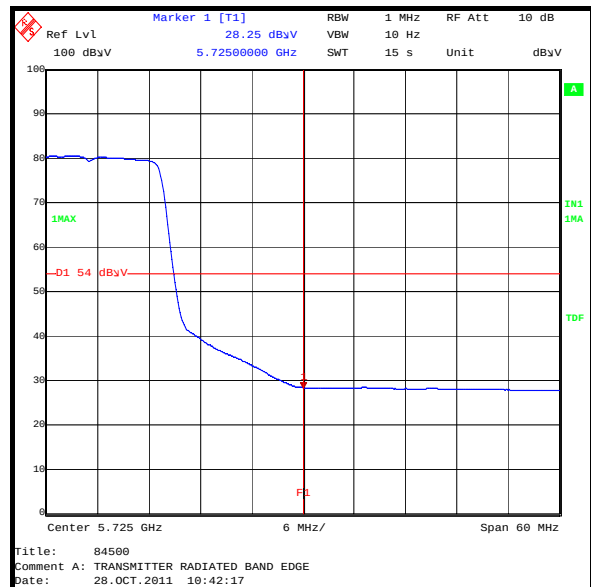
802.11a 5500 MHz 6 Mbps Peak Plot



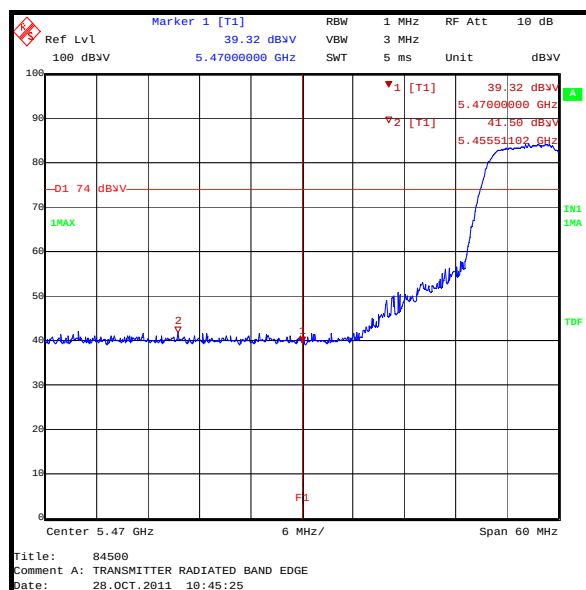
802.11a 5700 MHz 6 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.500 to 5.700 GHz band**

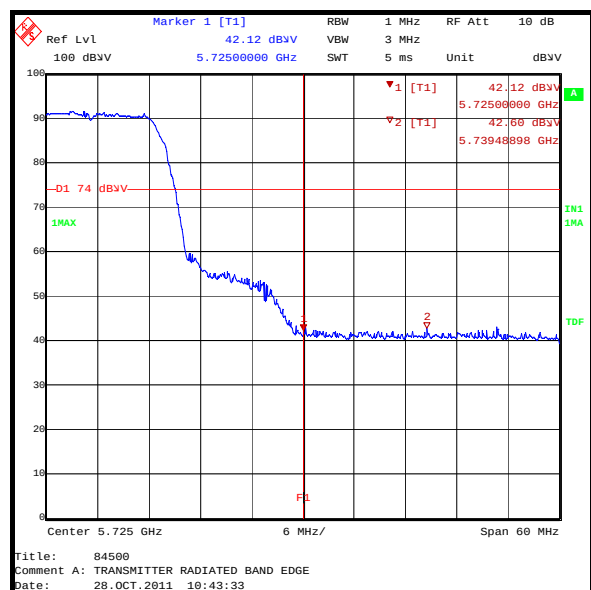
802.11a 5500 MHz 9 Mbps Average Plot



802.11a 5700 MHz 9 Mbps Average Plot



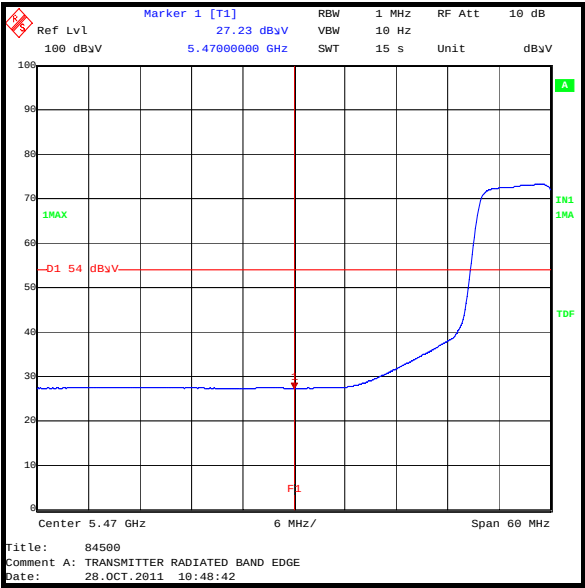
802.11a 5500 MHz 9 Mbps Peak Plot



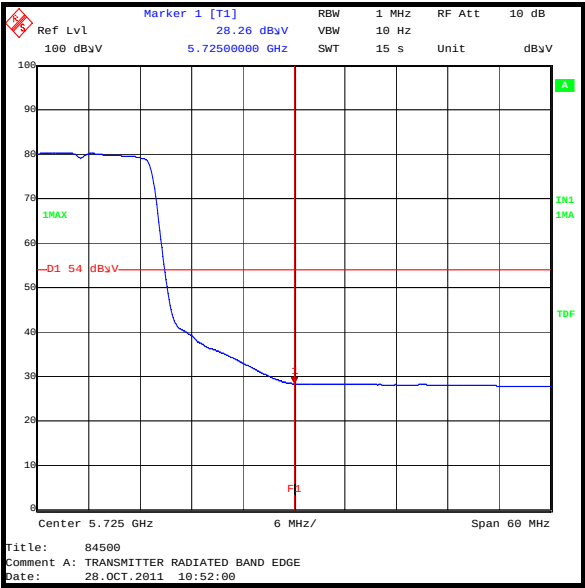
802.11a 5700 MHz 9 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

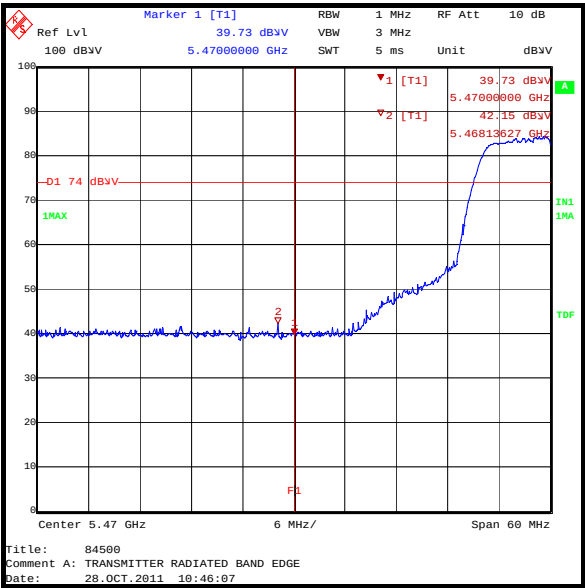
Plots - 802.11a – 5.500 to 5.700 GHz band



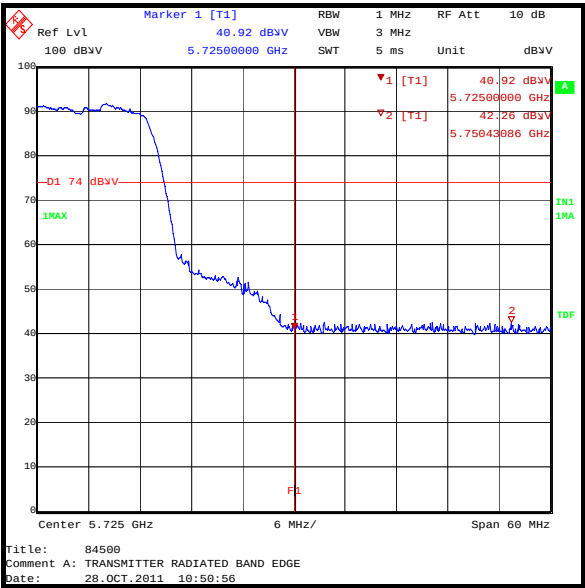
802.11a 5500 MHz 12 Mbps Average Plot



802.11a 5700 MHz 12 Mbps Average Plot



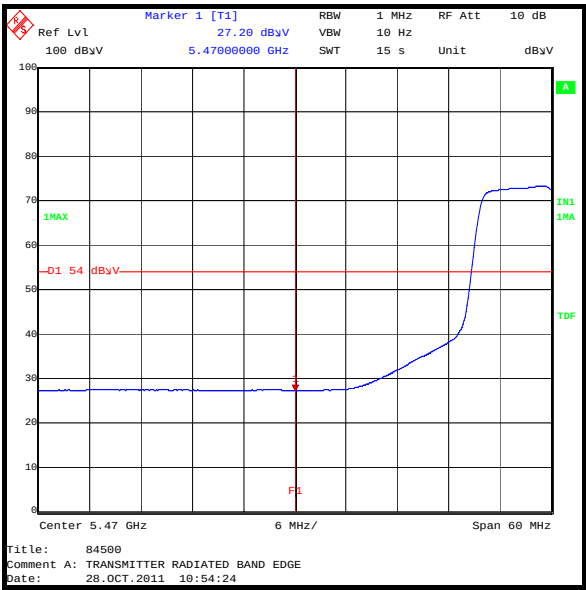
802.11a 5500 MHz 12 Mbps Peak Plot



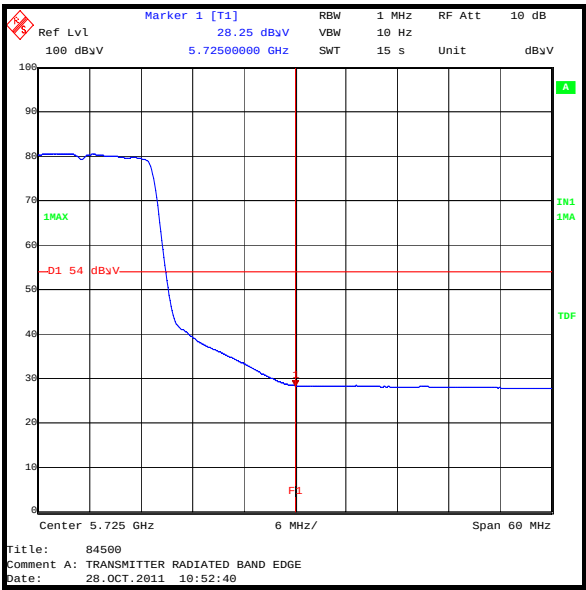
802.11a 5700 MHz 12 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

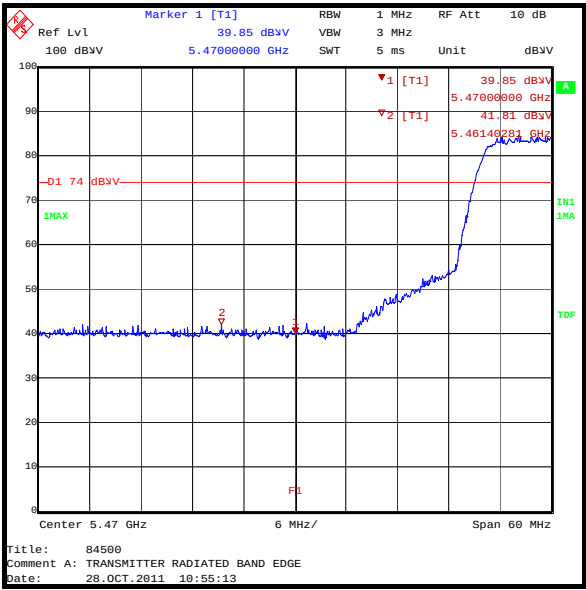
Plots - 802.11a – 5.500 to 5.700 GHz band



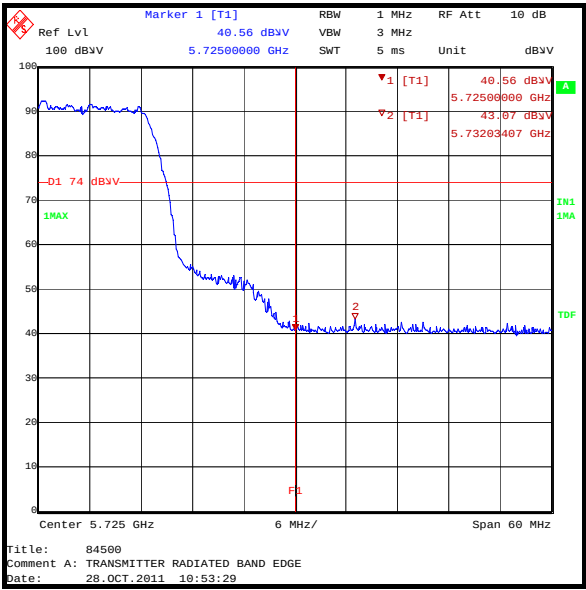
802.11a 5500 MHz 18 Mbps Average Plot



802.11a 5700 MHz 18 Mbps Average Plot



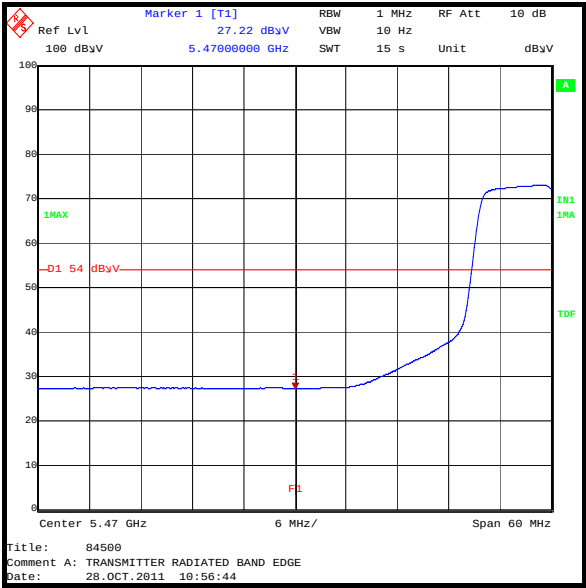
802.11a 5500 MHz 18 Mbps Peak Plot



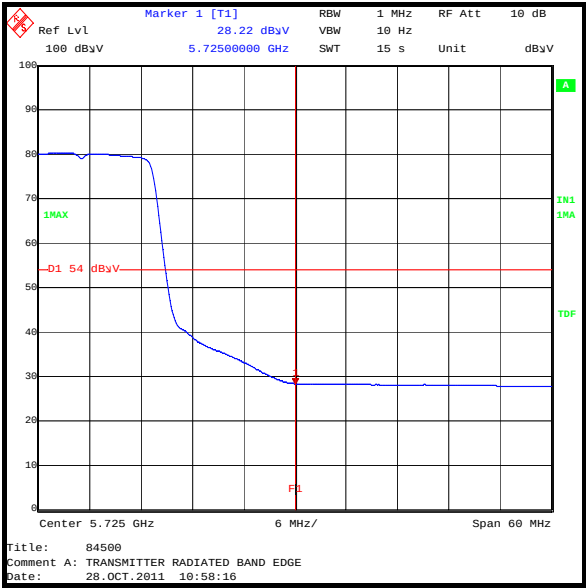
802.11a 5700 MHz 18 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

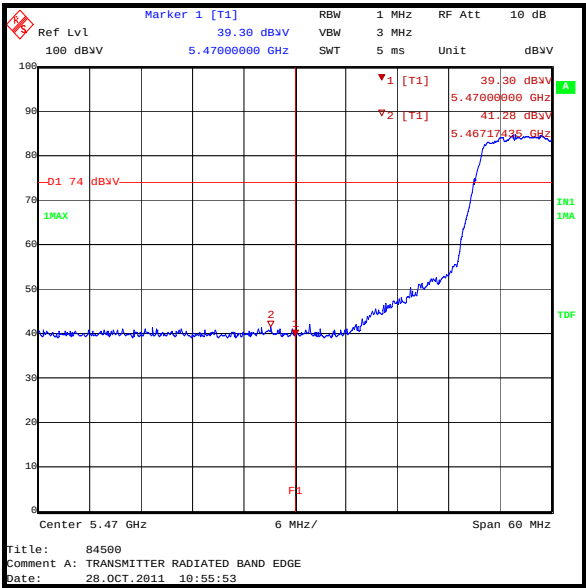
Plots - 802.11a – 5.500 to 5.700 GHz band



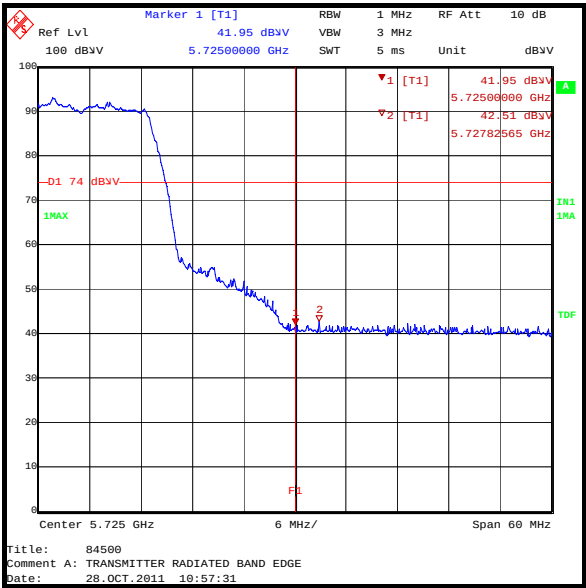
802.11a 5500 MHz 24 Mbps Average Plot



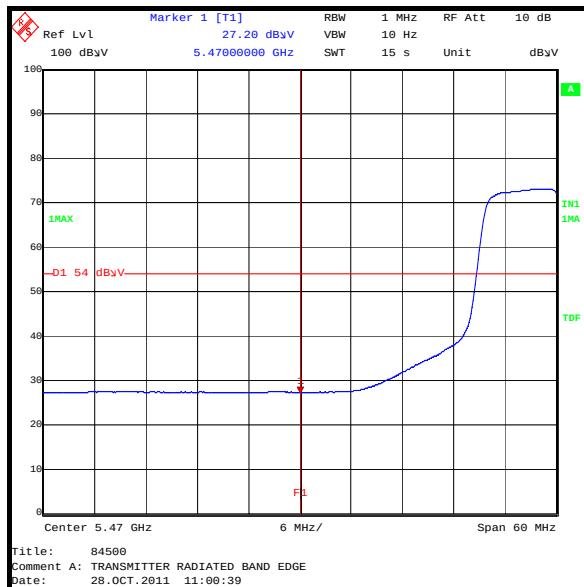
802.11a 5700 MHz 24 Mbps Average Plot



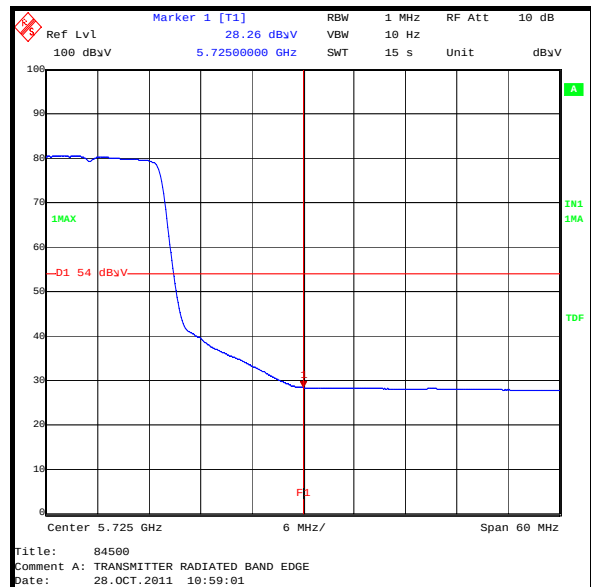
802.11a 5500 MHz 24 Mbps Peak Plot



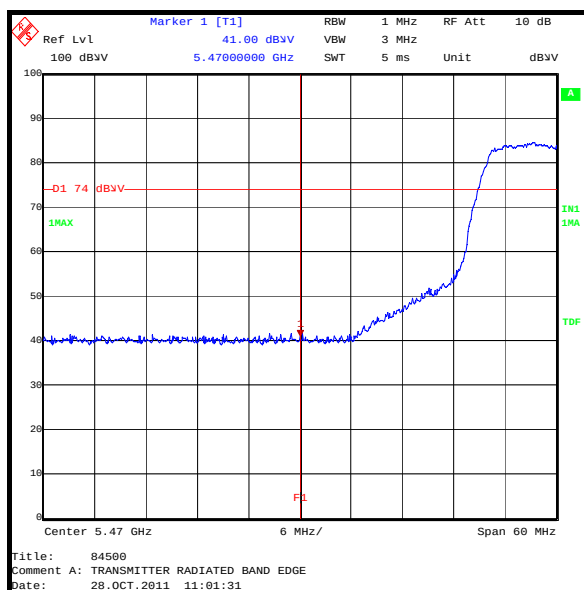
802.11a 5700 MHz 24 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.500 to 5.700 GHz band**

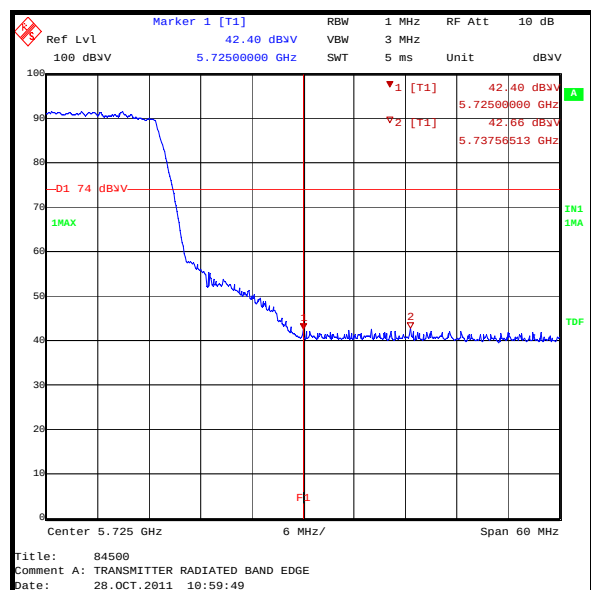
802.11a 5500 MHz 36 Mbps Average Plot



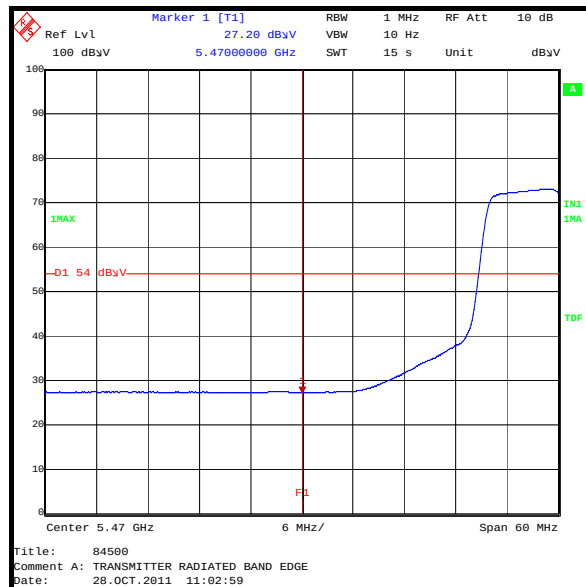
802.11a 5700 MHz 36 Mbps Average Plot



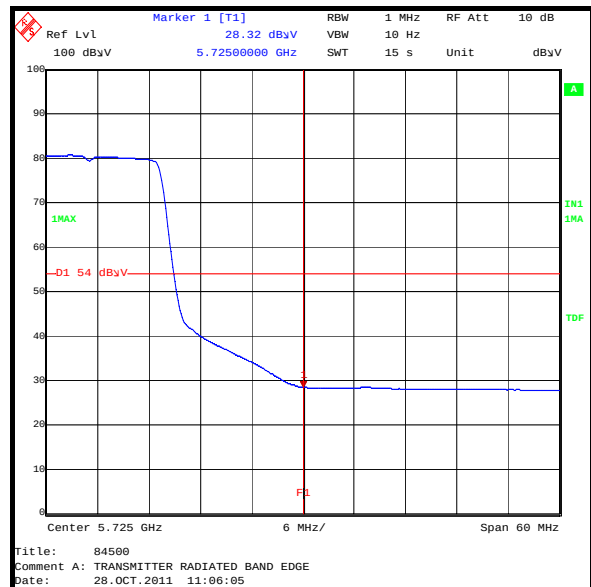
802.11a 5500 MHz 36 Mbps Peak Plot



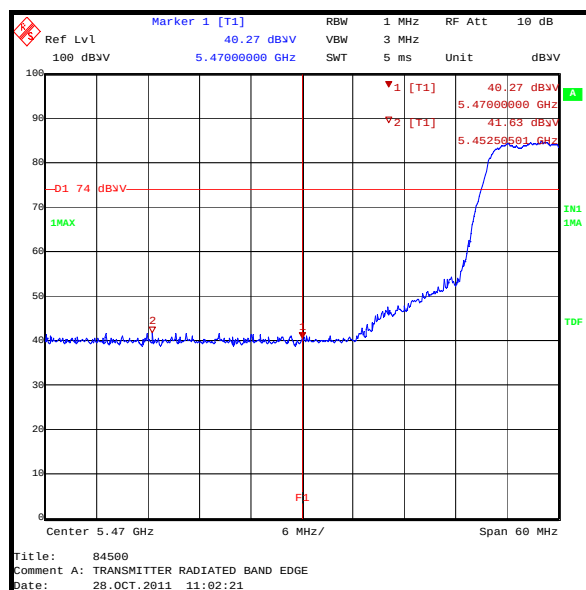
802.11a 5700 MHz 36 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.500 to 5.700 GHz band**

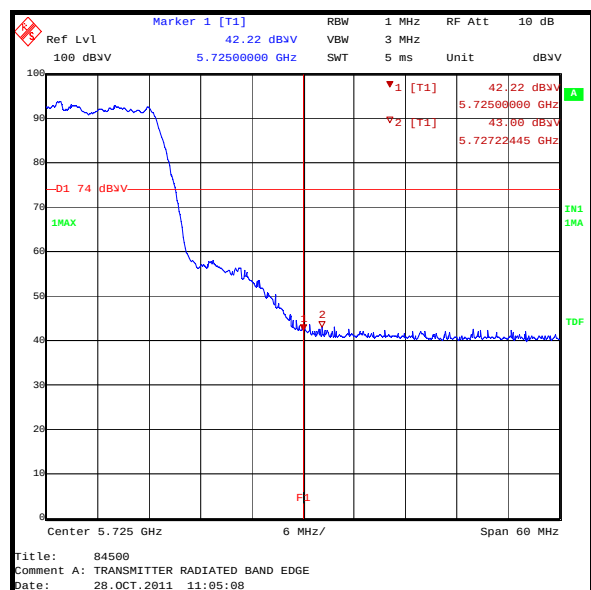
802.11a 5500 MHz 48 Mbps Average Plot



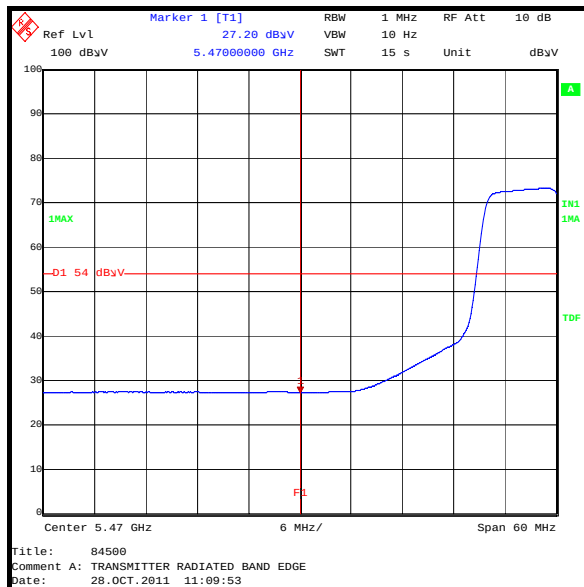
802.11a 5700 MHz 48 Mbps Average Plot



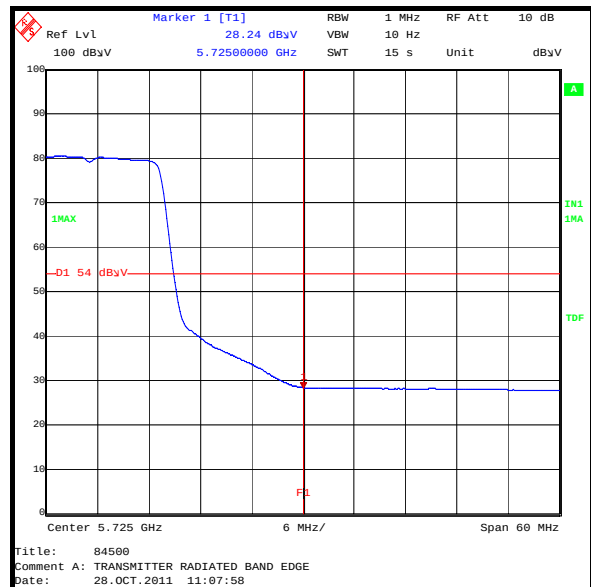
802.11a 5500 MHz 48 Mbps Peak Plot



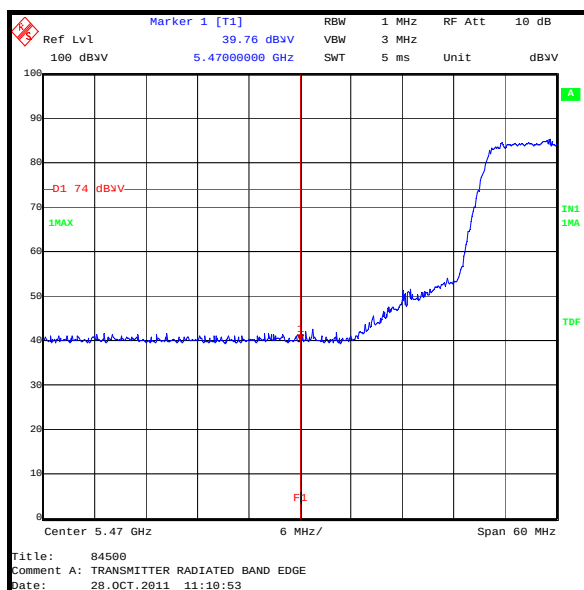
802.11a 5700 MHz 48 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11a – 5.500 to 5.700 GHz band**

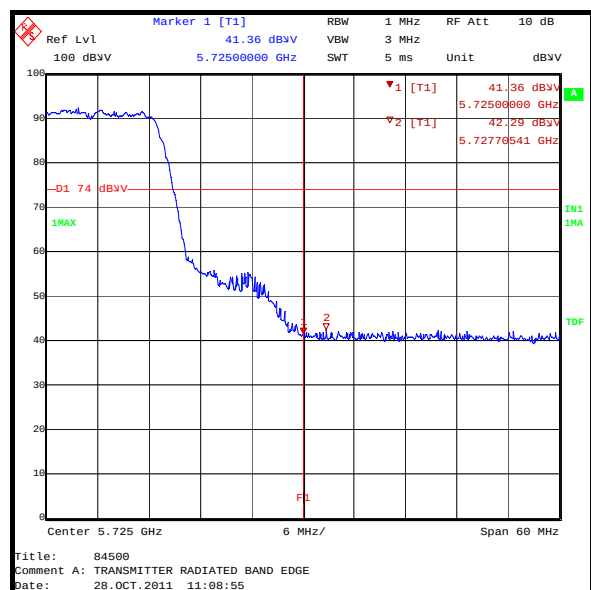
802.11a 5500 MHz 54 Mbps Average Plot



802.11a 5700 MHz 54 Mbps Average Plot



802.11a 5500 MHz 54 Mbps Peak



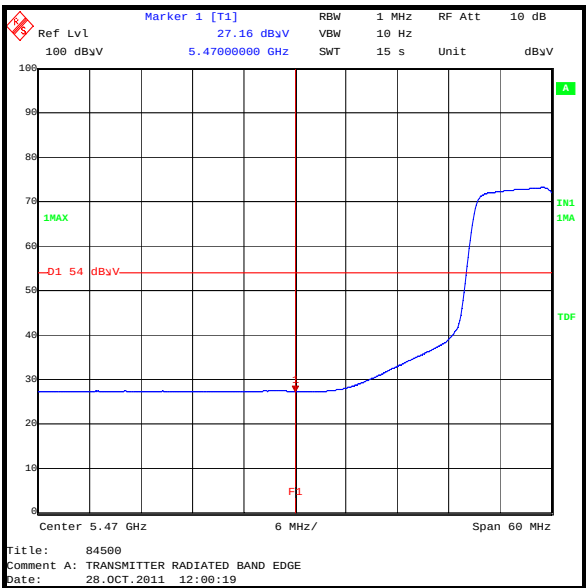
802.11a 5700 MHz 54 Mbps Peak

Transmitter Band Edge Radiated Emissions (continued)**Results - 802.11n – 5.500 to 5.700 GHz band**

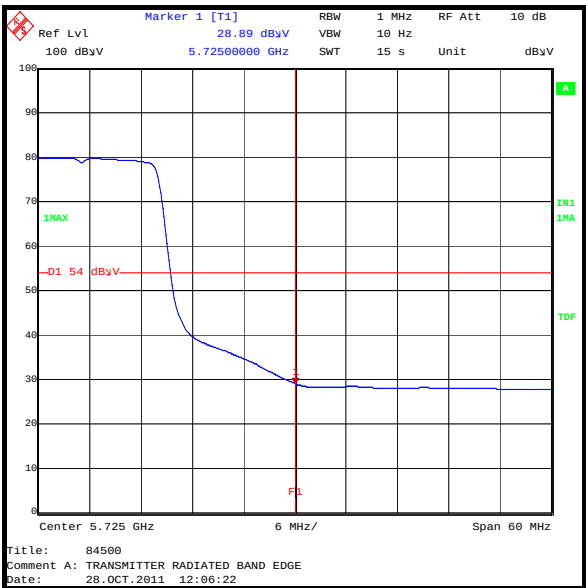
Frequency (MHz)	Modulation Scheme	Data Rate (Mbps)	Detector	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Result
5500	BPSK	6.5	Average	27.2	54.0	26.8	Complied
5500	BPSK	6.5	Peak	39.7	74.0	34.3	Complied
5700	BPSK	6.5	Average	28.9	54.0	25.1	Complied
5700	BPSK	6.5	Peak	44.2	74.0	29.8	Complied
5500	QPSK	13.0	Average	27.2	54.0	26.8	Complied
5500	QPSK	13.0	Peak	40.6	74.0	33.4	Complied
5700	QPSK	13.0	Average	28.9	54.0	25.1	Complied
5700	QPSK	13.0	Peak	43.6	74.0	30.4	Complied
5500	QPSK	19.5	Average	27.2	54.0	26.8	Complied
5500	QPSK	19.5	Peak	40.2	74.0	33.8	Complied
5700	QPSK	19.5	Average	28.9	54.0	25.1	Complied
5700	QPSK	19.5	Peak	43.5	74.0	30.5	Complied
5500	16QAM	26.0	Average	27.2	54.0	26.8	Complied
5500	16QAM	26.0	Peak	39.3	74.0	34.7	Complied
5700	16QAM	26.0	Average	29.0	54.0	25	Complied
5700	16QAM	26.0	Peak	43.1	74.0	30.9	Complied
5500	16QAM	39.0	Average	27.2	54.0	26.8	Complied
5500	16QAM	39.0	Peak	39.9	74.0	34.1	Complied
5700	16QAM	39.0	Average	28.8	54.0	25.2	Complied
5700	16QAM	39.0	Peak	42.7	74.0	31.3	Complied
5500	64QAM	52.0	Average	27.1	54.0	26.9	Complied
5500	64QAM	52.0	Peak	40.9	74.0	33.1	Complied
5700	64QAM	52.0	Average	28.9	54.0	25.1	Complied
5700	64QAM	52.0	Peak	45.1	74.0	28.9	Complied
5500	64QAM	58.5	Average	27.2	54.0	26.8	Complied
5500	64QAM	58.5	Peak	41.7	74.0	32.3	Complied
5700	64QAM	58.5	Average	28.8	54.0	25.2	Complied
5700	64QAM	58.5	Peak	44.4	74.0	29.6	Complied
5500	64QAM	65.0	Average	27.2	54.0	26.8	Complied
5500	64QAM	65.0	Peak	40.2	74.0	33.8	Complied
5700	64QAM	65.0	Average	28.9	54.0	25.1	Complied
5700	64QAM	65.0	Peak	42.9	74.0	31.1	Complied

Transmitter Band Edge Radiated Emissions (continued)

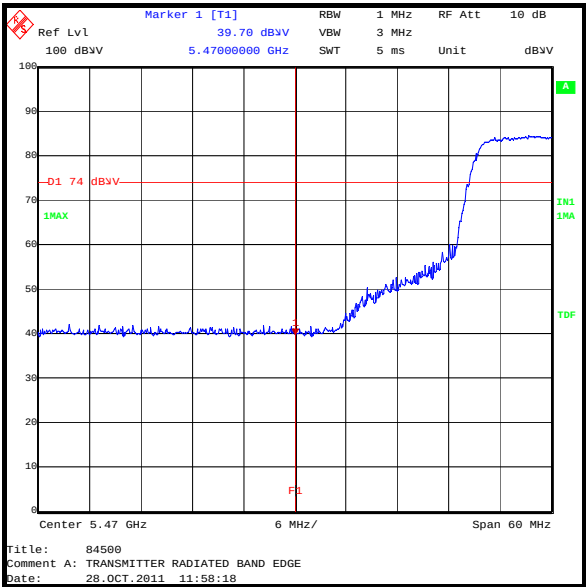
Plots - 802.11n – 5.500 to 5.700 GHz band



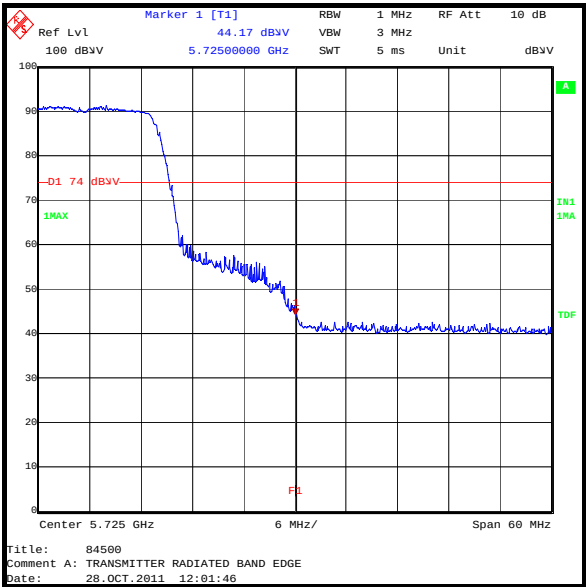
802.11n 5500 MHz 6.5 Mbps Average Plot



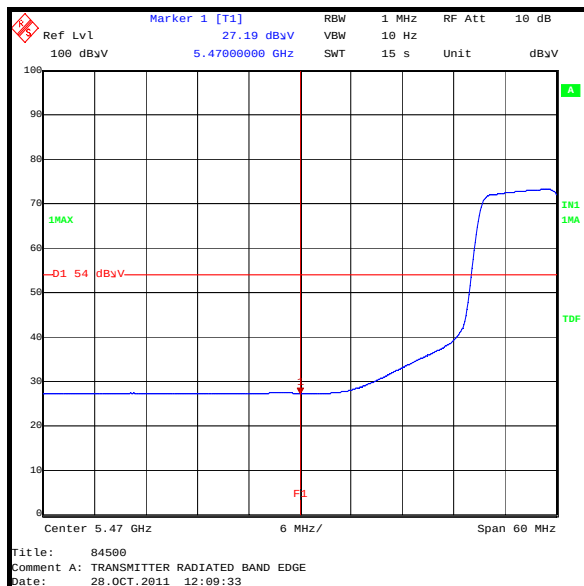
802.11n 5500 MHz 6.5 Mbps Average Plot



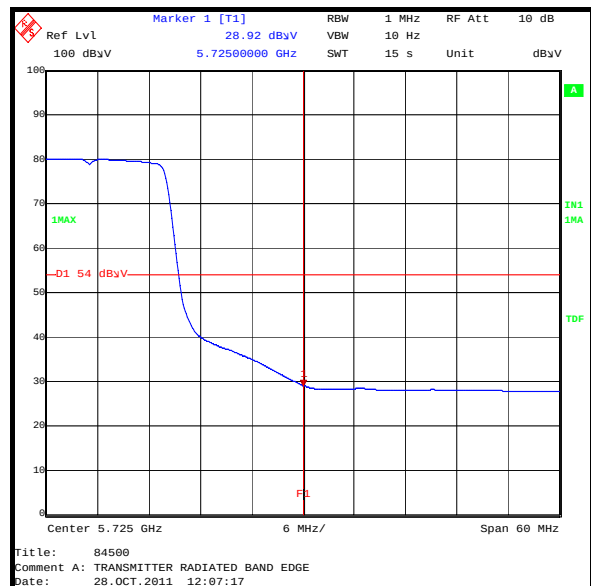
802.11n 5500 MHz 6.5 Mbps Peak Plot



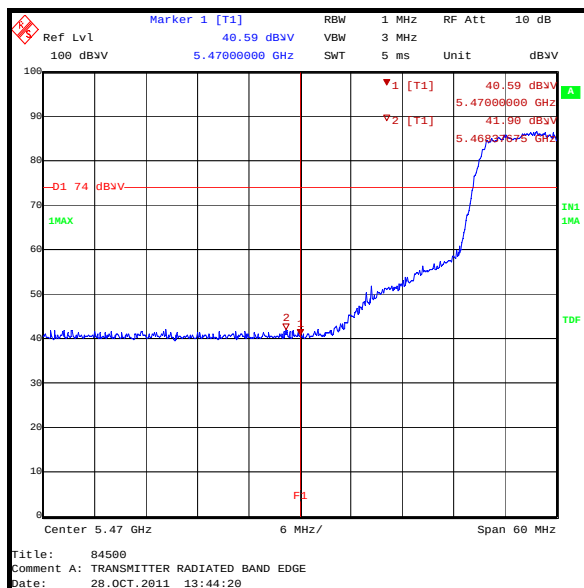
802.11n 5500 MHz 6.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.500 to 5.700 GHz band**

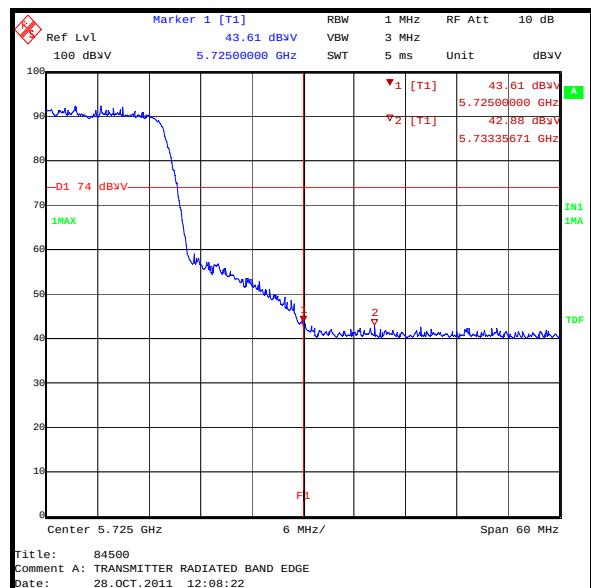
802.11n 5500 MHz 13 Mbps Average Plot



802.11n 5700 MHz 13 Mbps Average Plot



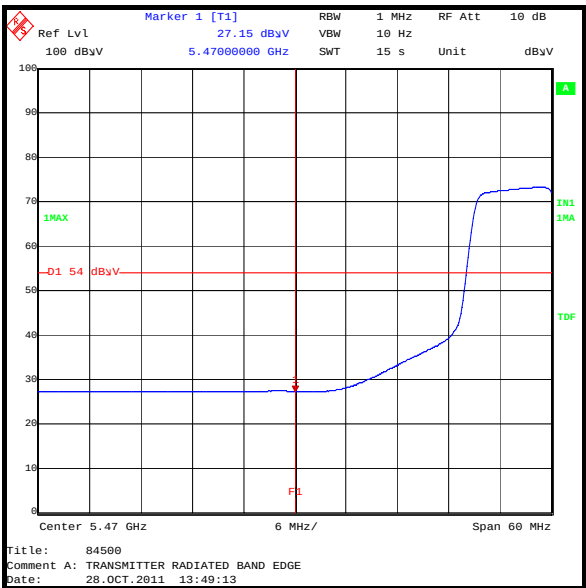
802.11n 5500 MHz 13 Mbps Peak Plot



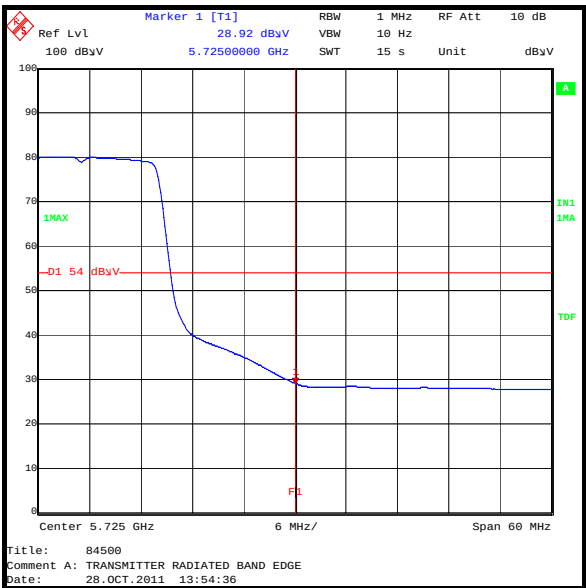
802.11n 5700 MHz 13 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

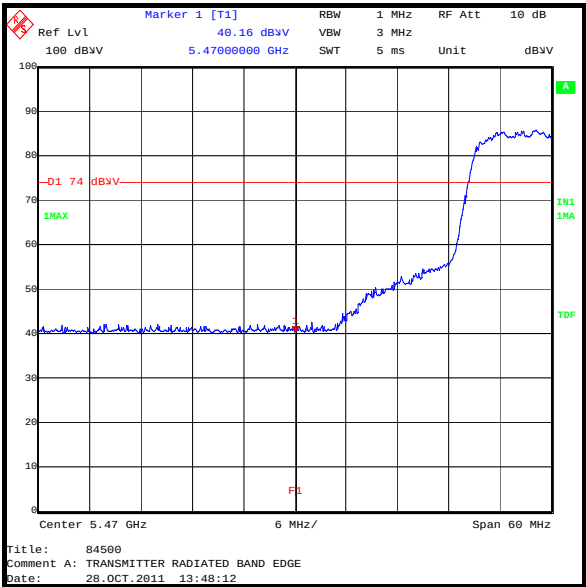
Plots - 802.11n – 5.500 to 5.700 GHz band



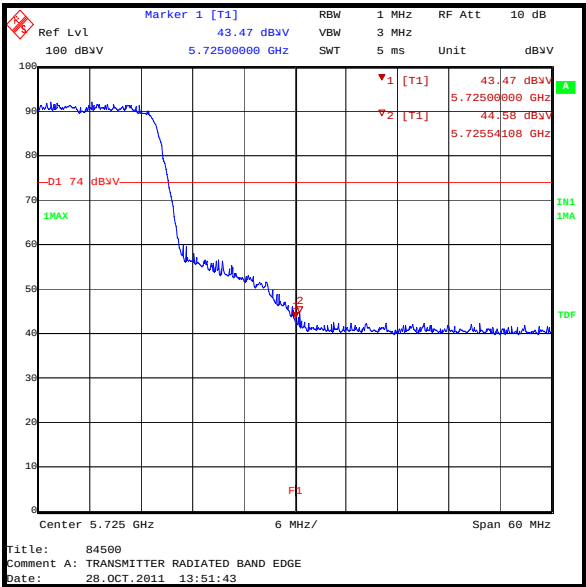
802.11n 5500 MHz 19.5 Mbps Average Plot



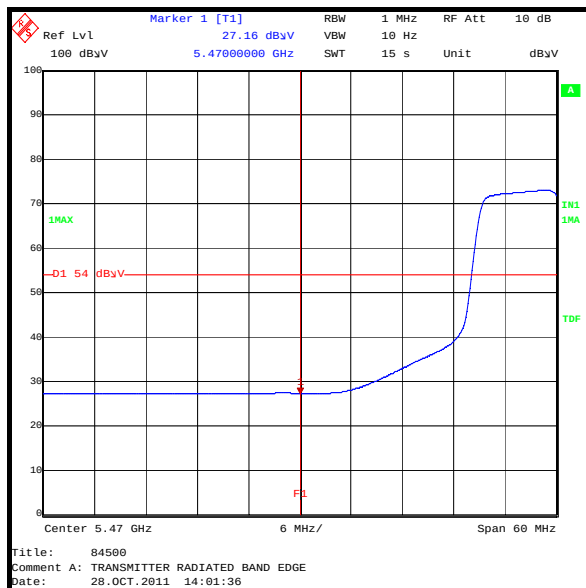
802.11n 5700 MHz 19.5 Mbps Average Plot



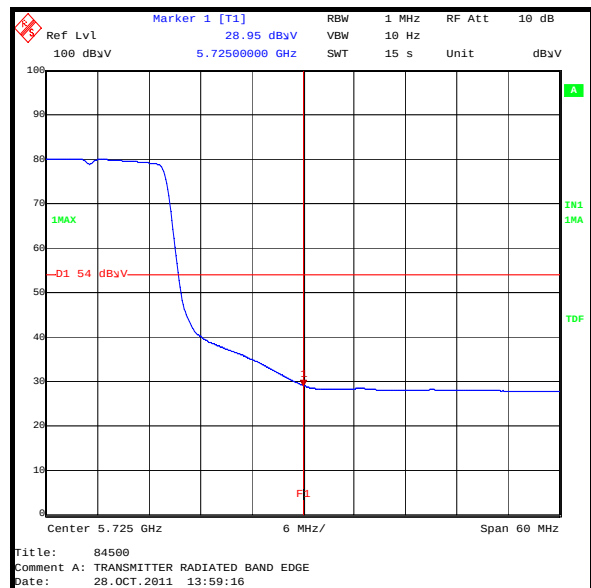
802.11n 5500 MHz 19.5 Mbps Peak Plot



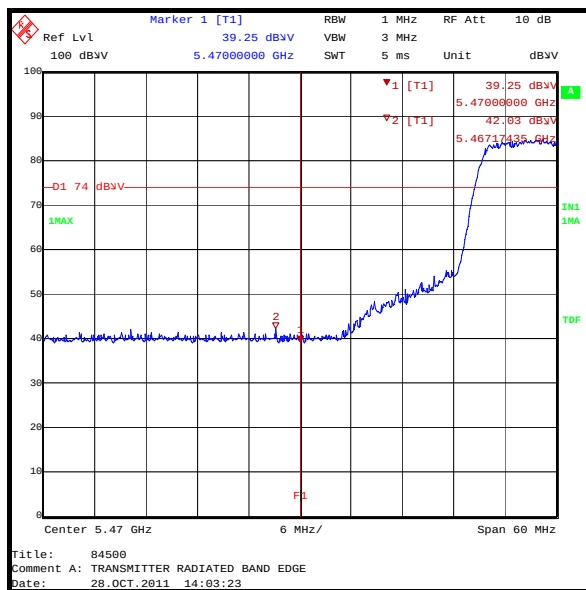
802.11n 5700 MHz 19.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.500 to 5.700 GHz band**

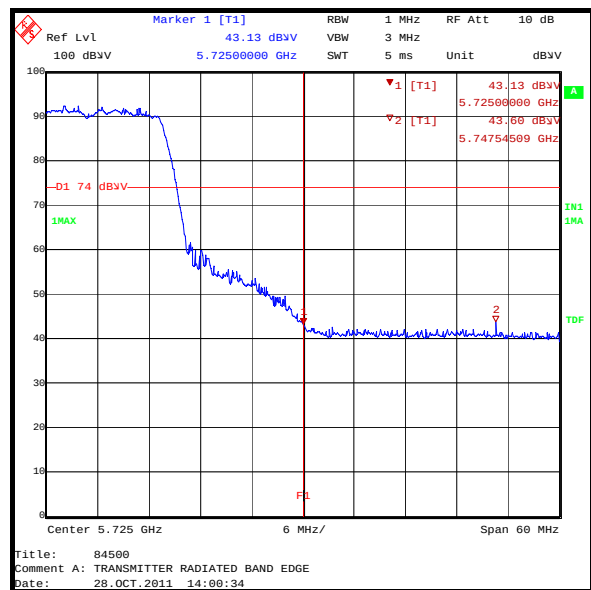
802.11n 5500 MHz 26 Mbps Average Plot



802.11n 5700 MHz 26 Mbps Average Plot



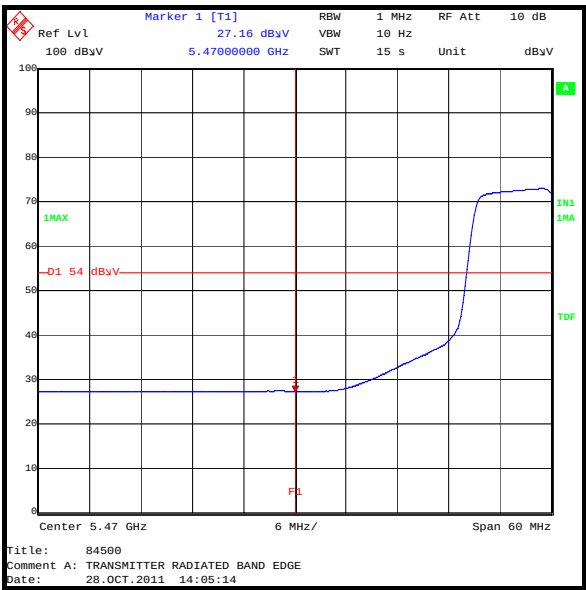
802.11n 5500 MHz 26 Mbps Peak Plot



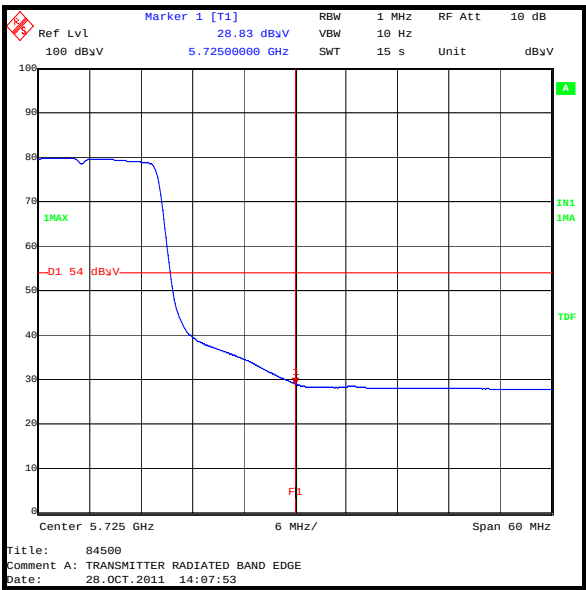
802.11n 5700 MHz 26 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

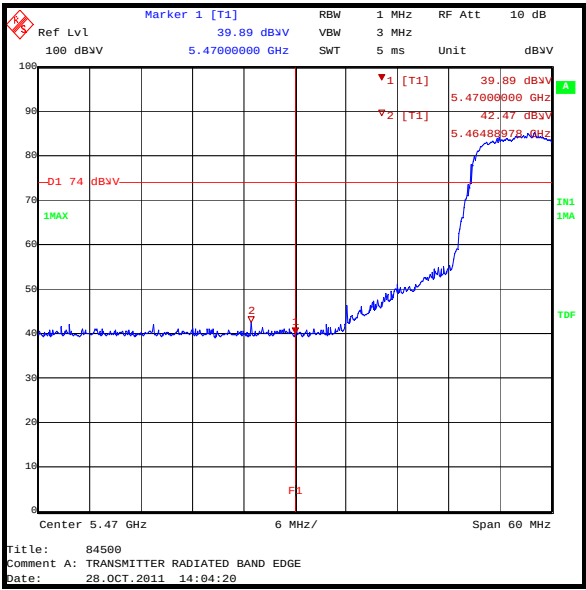
Plots - 802.11n – 5.500 to 5.700 GHz band



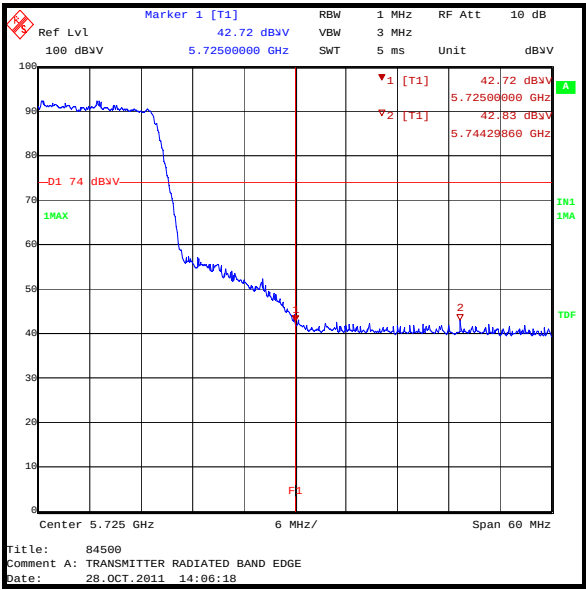
802.11n 5500 MHz 39 Mbps Average Plot



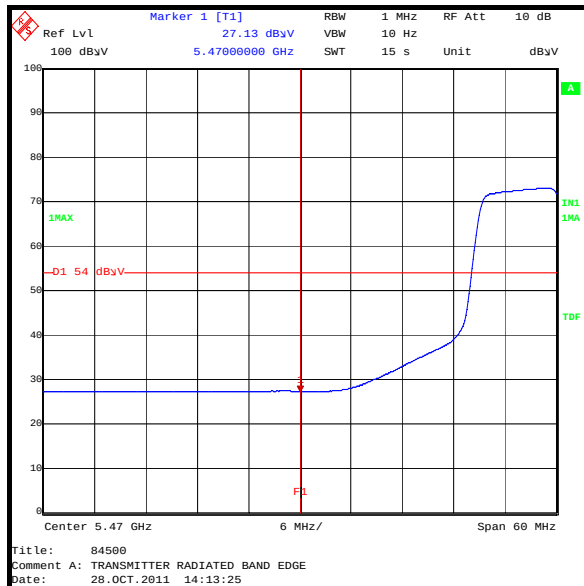
802.11n 5700 MHz 39 Mbps Average Plot



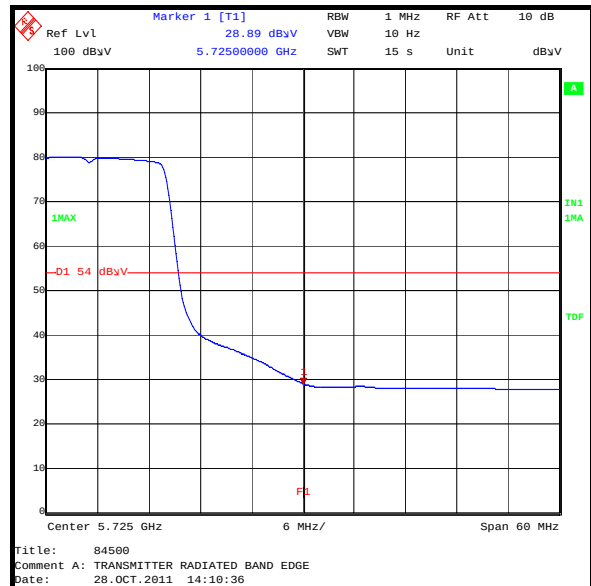
802.11n 5500 MHz 39 Mbps Peak Plot



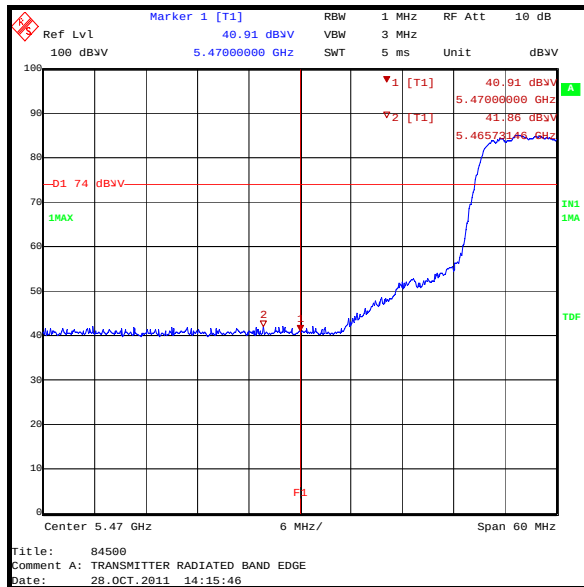
802.11n 5700 MHz 39 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.500 to 5.700 GHz band**

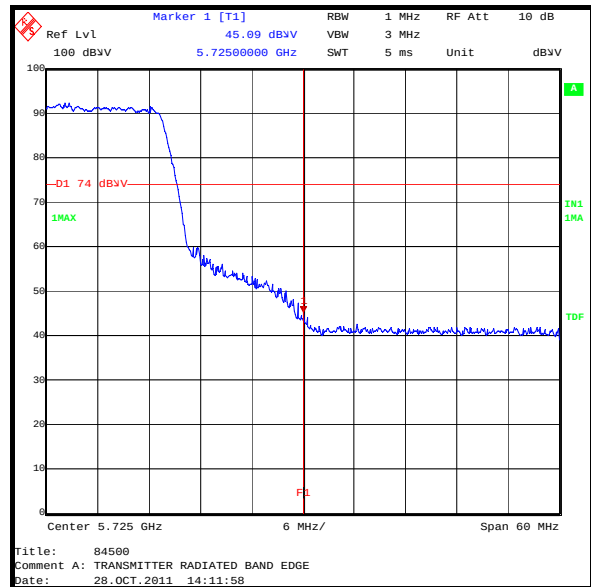
802.11n 5500 MHz 52 Mbps Average Plot



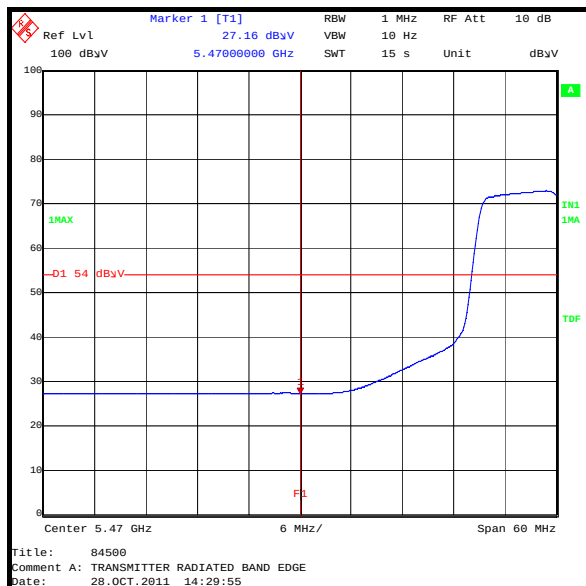
802.11n 5700 MHz 52 Mbps Average Plot



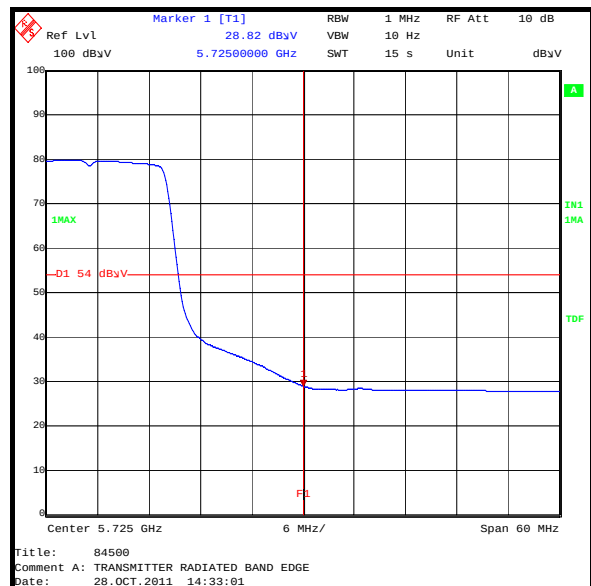
802.11n 5500 MHz 52 Mbps Peak Plot



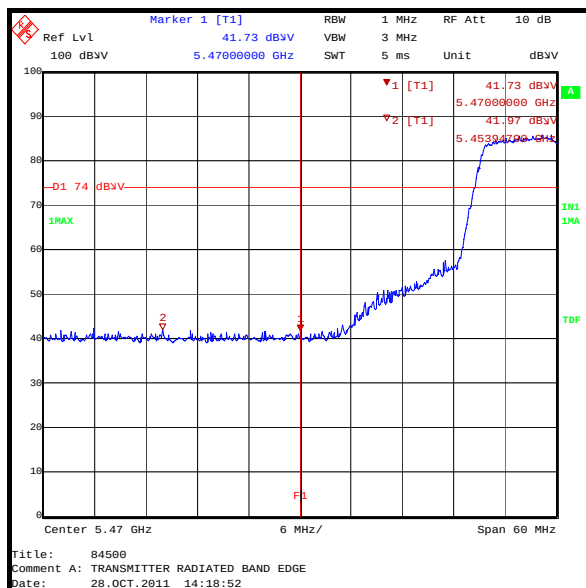
802.11n 5700 MHz 52 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)**Plots - 802.11n – 5.500 to 5.700 GHz band**

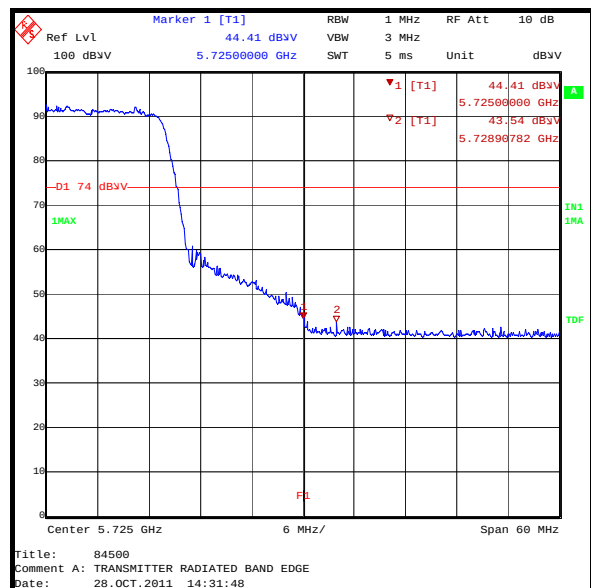
802.11n 5500 MHz 58.5 Mbps Average Plot



802.11n 5700 MHz 58.5 Mbps Average Plot



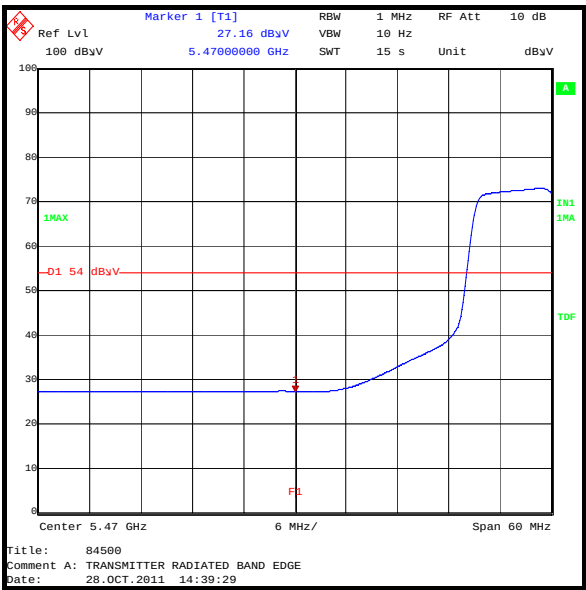
802.11n 5500 MHz 58.5 Mbps Peak Plot



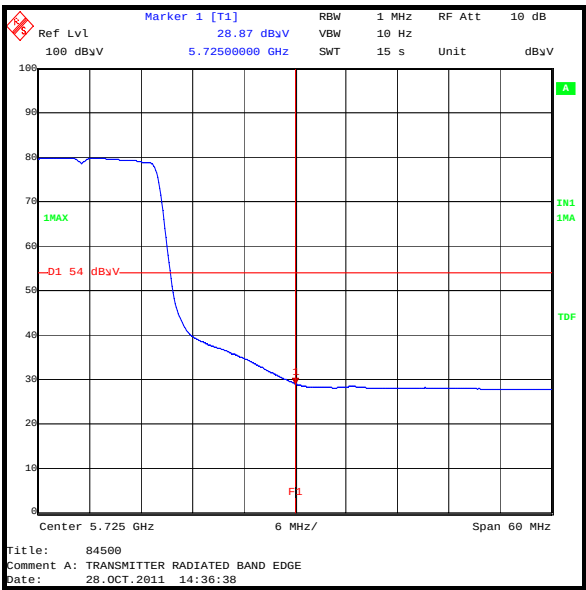
802.11n 5700 MHz 58.5 Mbps Peak Plot

Transmitter Band Edge Radiated Emissions (continued)

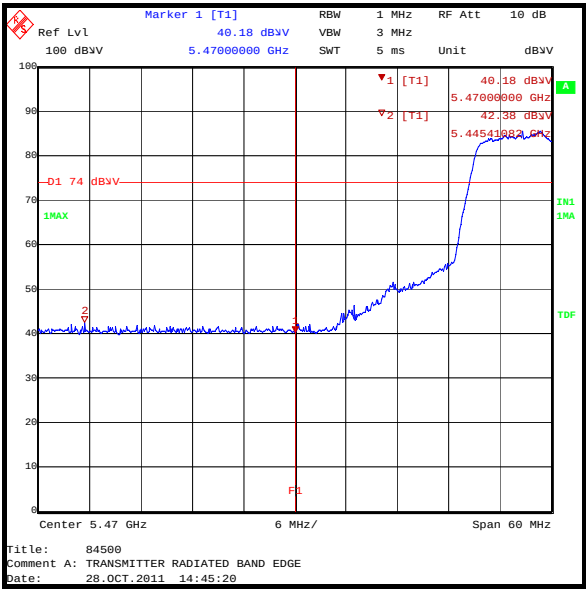
Plots - 802.11n – 5.500 to 5.700 GHz band



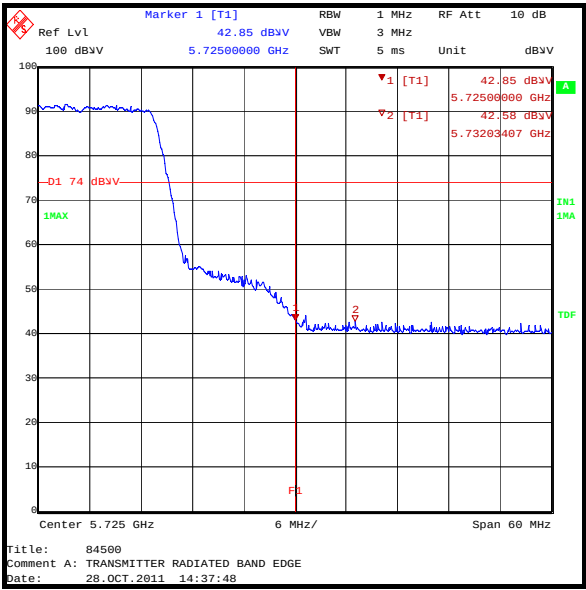
802.11n 5500 MHz 65 Mbps Average Plot



802.11n 5700 MHz 65 Mbps Average Plot



802.11n 5500 MHz 65 Mbps Peak Plot



802.11n 5700 MHz 65 Mbps Peak Plot

5.2.13. Transmitter Frequency Stability (Temperature Variation)**Test Summary:**

Test Engineer:	Nigel Davison & Nick Steel	Test Date:	03 December 2010 & 14 November 2011
Test Sample Serial No:	ID 3		

FCC Part:	15.407(g) and RSS-Gen 4.7, RSS-210 A9.5(5)
Test Method Used:	Using the procedures detailed in ANSI C63.10 Section 6.8.1 and 6.8.2 and the following method: The EUT was operated at the maximum output power and connected to the spectrum analyzer which was set to max hold using a peak detector. The peak value of the power envelope was measured and noted. The lower frequency point of the channel closest to the lower band edge and the upper frequency point of the channel closest to the upper band edge were measured at the -26 dB point relative to the measured peak value. These are the value recorded in the tables below and these must remain within the allocated band at all times. The mode tested was 802.11a 6Mbps as this was the most robust.

Environmental Conditions:

Temperature (°C):	22
Relative Humidity (%):	26

Frequency stability of the EUT with variations in ambient temperature**Results – 5.260 to 5.320 GHz**

6MBS/802.11A			Time after Start-up			
			0 minutes	2 minutes	5 minutes	10 minutes
Channel	Nominal Frequency (MHz)	Temperature (°C)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Bottom	5260	-40	5251.245	5251.245	5251.245	5251.245
Bottom	5260	-30	5251.276	5251.276	5251.276	5251.276
Bottom	5260	-20	5251.163	5251.163	5251.163	5251.163
Bottom	5260	-10	5251.276	5251.276	5251.276	5251.276
Bottom	5260	0	5251.276	5251.276	5251.276	5251.276
Bottom	5260	10	5251.276	5251.276	5251.276	5251.276
Bottom	5260	20	5251.389	5251.389	5251.389	5251.389
Bottom	5260	30	5251.443	5251.443	5251.443	5251.443
Bottom	5260	40	5251.389	5251.389	5251.389	5251.389
Bottom	5260	50	5251.389	5251.389	5251.389	5251.389
Bottom	5260	60	5251.518	5251.518	5251.518	5251.518
Bottom	5260	70	5251.435	5251.435	5251.435	5251.435
Bottom	5260	80	5251.517	5251.517	5251.517	5251.517
Bottom	5260	85	5251.600	5251.600	5251.600	5251.600

Transmitter Frequency Stability (Temperature Variation) (continued)**Results – 5.260 to 5.320 GHz**

6MBS/802.11A			Time after Start-up			
			0 minutes	2 minutes	5 minutes	10 minutes
Channel	Nominal Frequency (MHz)	Temperature (°C)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Top	5320	-40	5329.009	5329.009	5329.009	5329.009
Top	5320	-30	5329.009	5329.009	5329.009	5329.009
Top	5320	-20	5328.896	5328.896	5328.896	5328.896
Top	5320	-10	5328.782	5328.782	5328.782	5328.782
Top	5320	0	5328.669	5328.669	5328.669	5328.669
Top	5320	10	5328.669	5328.669	5328.669	5328.669
Top	5320	20	5328.556	5328.556	5328.556	5328.556
Top	5320	30	5328.556	5328.556	5328.556	5328.556
Top	5320	40	5328.443	5328.443	5328.443	5328.443
Top	5320	50	5328.443	5328.443	5328.543	5328.543
Top	5320	60	5328.586	5328.586	5328.586	5328.586
Top	5320	70	5328.596	5328.596	5328.596	5328.596
Top	5320	80	5328.626	5328.626	5328.626	5328.626
Top	5320	85	5328.626	5328.626	5328.626	5328.626

Worse Case Margins:

Channel	Nominal Frequency (MHz)	Frequency closest to Band Edge (MHz)	Band Edge (MHz)	Margin (MHz)	Result
Bottom	5260	5251.163	5250	1.163	Complied
Top	5320	5329.009	5350	20.991	Complied

Transmitter Frequency Stability (Voltage Variation)**Results – 5.260 to 5.320 GHz**

Channel	Nominal Frequency (MHz)	Supply Voltage (V)	Frequency (MHz)	Band Edge (MHz)	Margin (MHz)	Result
Bottom	5260	3.3	5251.389	5250	1.389	Complied
Bottom	5260	5.0	5251.389	5250	1.389	Complied
Bottom	5260	5.5	5251.389	5250	1.389	Complied
Top	5320	3.3	5328.556	5350	21.444	Complied
Top	5320	5.0	5328.556	5350	21.444	Complied
Top	5320	5.5	5328.556	5350	21.444	Complied

Transmitter Frequency Stability (Temperature Variation) (continued)**Results – 5.500 to 5.700 GHz**

6MBS/802.11A			Time after Start-up			
			0 minutes	2 minutes	5 minutes	10 minutes
Channel	Nominal Frequency (MHz)	Temperature (°C)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Bottom	5500	-40	5490.892	5490.892	5490.892	5490.892
Bottom	5500	-30	5490.877	5490.877	5490.877	5490.877
Bottom	5500	-20	5490.990	5490.990	5490.990	5490.990
Bottom	5500	-10	5490.990	5490.990	5490.990	5490.990
Bottom	5500	0	5491.217	5491.217	5491.217	5491.217
Bottom	5500	10	5491.330	5491.330	5491.330	5491.330
Bottom	5500	20	5491.330	5491.330	5491.330	5491.330
Bottom	5500	30	5491.330	5491.330	5491.330	5491.330
Bottom	5500	40	5491.443	5491.443	5491.443	5491.443
Bottom	5500	50	5491.443	5491.443	5491.443	5491.443
Bottom	5500	60	5491.419	5491.419	5491.419	5491.419
Bottom	5500	70	5491.389	5491.389	5491.389	5491.389
Bottom	5500	80	5491.357	5491.357	5491.357	5491.357
Bottom	5500	85	5491.349	5491.349	5491.349	5491.349

Transmitter Frequency Stability (Temperature Variation) (continued)**Results – 5.500 to 5.700 GHz**

6MBS/802.11A			Time after Start-up			
			0 minutes	2 minutes	5 minutes	10 minutes
Channel	Nominal Frequency (MHz)	Temperature (°C)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (MHz)
Top	5700	-40	5708.887	5708.887	5708.887	5708.887
Top	5700	-30	5708.896	5708.896	5708.896	5708.896
Top	5700	-20	5708.896	5708.896	5708.896	5708.896
Top	5700	-10	5708.782	5708.782	5708.782	5708.782
Top	5700	0	5708.669	5708.669	5708.669	5708.669
Top	5700	10	5708.556	5708.556	5708.556	5708.556
Top	5700	20	5708.556	5708.556	5708.556	5708.556
Top	5700	30	5708.556	5708.556	5708.556	5708.556
Top	5700	40	5708.556	5708.556	5708.556	5708.556
Top	5700	50	5708.556	5708.556	5708.556	5708.556
Top	5700	60	5708.887	5708.887	5708.887	5708.887
Top	5700	70	5708.567	5708.567	5708.567	5708.567
Top	5700	80	5708.591	5708.591	5708.591	5708.591
Top	5700	85	5708.612	5708.612	5708.612	5708.612

Worse Case Margins:

Channel	Nominal Frequency (MHz)	Frequency closest to Band Edge (MHz)	Band Edge (MHz)	Margin (MHz)	Result
Bottom	5500	5490.877	5470	20.877	Complied
Top	5700	5708.896	5725	16.104	Complied

Transmitter Frequency Stability (Voltage Variation) (continued)**Results – 5.500 to 5.700 GHz**

Channel	Nominal Frequency (MHz)	Supply Voltage (V)	Frequency (MHz)	Band Edge (MHz)	Margin (MHz)	Result
Bottom	5500	3.3	5491.330	5470	21.33	Complied
Bottom	5500	5.0	5491.330	5470	21.33	Complied
Bottom	5500	5.5	5491.330	5470	21.33	Complied
Top	5700	3.3	5708.556	5725	16.444	Complied
Top	5700	5.0	5708.556	5725	16.444	Complied
Top	5700	5.5	5708.556	5725	16.444	Complied

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±4.05 dB
Maximum Conducted Output Power	5.15 GHz to 5.825 GHz	95%	±0.27 dB
Peak Power Spectral Density	5.15 GHz to 5.825 GHz	95%	±0.27 dB
Peak Excursion	5.15 GHz to 5.825 GHz	95%	±0.27 dB
Power Control	5.25 GHz to 5.725 GHz	95%	±0.27 dB
99% / 26 dB Emission Bandwidth	5.15 GHz to 5.825 GHz	95%	±0.92 ppm
Frequency Stability	5.15 GHz to 5.825 GHz	95%	±0.92 ppm
Radiated Spurious Emissions	30 MHz to 40 GHz	95%	±4.68 dB

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
A1069	Single Phase LISN	Rohde & Schwarz	ESH3-Z5	837469/012	07 Apr 2012	12
A1256	Power Supply Unit	Farnell	11E30/1B	000378	Cal on use	12
A1534	Pre Amplifier	Hewlett Packard	8449B	3008A00405	09 Oct 2012	12
A1818	Antenna	EMCO	3115	00075692	09 Oct 2012	12
A1999	Attenuator	Huber + Suhner AG	6820.17.B	07101	18 March 2012	12
A203	Antenna	Flann Microwave Ltd	22240-20	343	11 May 2013	36
A253	Antenna	Flann Microwave	12240-20	128	09 Oct 2012	12
A254	Antenna	Flann Microwave	14240-20	139	09 Oct 2012	12
A255	Antenna	Flann Microwave	16240-20	519	09 Oct 2012	12
A256	Antenna	Flann Microwave	18240-20	400	09 Oct 2012	12
A288	Antenna	Chase	CBL6111A	1589	25 August 2012	12
A436	Antenna	Flann	20240-20	330	09 Oct 2012	12
G0543	Amplifier	Sonoma Instrument Co.	310N	230801	30 Jun 2011	12
K0001	5m Semi-Anechoic Chamber	Rainford EMC	N/A	N/A	29 May 2012	12
K0002	3m RSE Chamber	Rainford EMC	N/A	N/A	09 Oct 2012	12
L1001	Test Receiver	Rohde & Schwarz	ESU 26	10039	28 th Jan 2011	12
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	13 Jul 2012	12
M1273	Test Receiver	Rohde & Schwarz	ESIB 26	100275	04 Feb 2012	12
M1124	Spectrum Analyser	Rohde & Schwarz	ESI26	100046K	29 Jun 2012	12
M1223	Environmental Chamber	Votsch	VT4002	58566072720010	Cal on use	N/A
M1263	Test Receiver	Rohde & Schwarz	ESIB7	100265	28 Jun 2011	12
M1249	Thermometer	Fluke	52II	88800049	05 July 2011	12
A1830	Pulse limiter	R & Schwarz	ESH3-Z2	100668	05 March 2012	12

RFI No.	Instrument	Manufacturer	Type No.	Serial No.	Date Calibration Due	Cal. Interval (Months)
M1251	Digital Multimeter	Fluke	175	89170179	29 July 2012	12
M1081	DC power supply	Agilent Technologies	66311B	GB38440216	Cal on us	N/A

Asset number M1249, L1001, M1263 & G0543 were in calibration during testing.

NB In accordance with UKAS requirements all the measurement equipment is on a calibration schedule, all equipment was in calibration at the time of testing.