

CFR 47 FCC Part 15.407

Maximum output power

Test Report

E.U.T. : **NoteBook PC**

Trade Name : MTC ; GETAC

Model Number : 8212X

FCC ID : MAU8212A

Prepared for

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Report Issued: 2008/01/04

Test Engineer:


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Approved:


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1 Maximum output power test

1.1 Limit

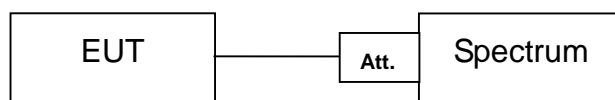
Operating Frequency (MHz)	Output power limit
5150~5250	< 50mW (17dBm) or 4dBm+10logB
5250~5350, 5470~5725	< 250mW (24dBm) or 11dBm+10logB
5725~5825	< 1W (30dBm) or 17dBm+10logB

1.2 Measurement Instrument

Instrument	Manufacturer	Model	Serial No.	Last Calibration
Spectrum Analyzer	R&S	FSP30	100002	2007/12/15

Note: All instrument upon which need to be calibrated are within calibration period of 1 year

1.3 Configuration of Measurement



1.4 Test Procedure

The EUT was setup to ANSI C63.4, tested to UNII test procedure of KDB289238 (DA-02-2138A1) for compliance to FCC 47CFR 15.407 requirements.

The maximum output power was measured from the antenna port of the EUT using a 50ohm spectrum analyzer with the resolution bandwidth set at 1MHz, the video bandwidth set at 3MHz. Power spectrum density was read directly at the EUT antenna terminals.

1.5 Test Result

PASS.

After verifying each output data rate of EUT, the worst case was found at 6Mbps mode. The test data of worst case was shown on as following pages.

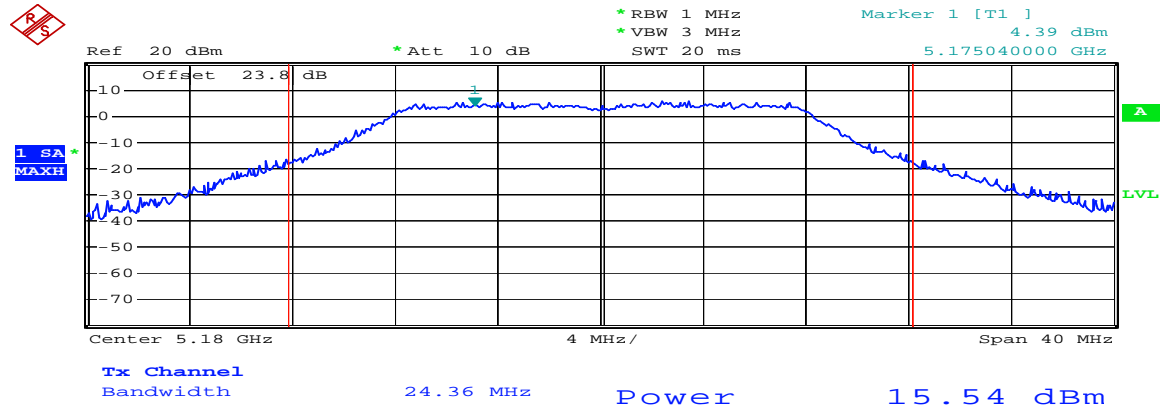
Maximum output power

Test Mode : 802.11a (6Mbps)				
Test CH		Reading	Limit	Margin
CH No.	Freq. (MHz)	(dBm)	(dBm)	(dB)
36	5180	15.54	17	-1.46
44	5220	15.17	17	-1.83
48	5240	15.20	17	-1.80
52	5260	22.09	24	-1.91
60	5300	22.09	24	-1.91
64	5320	22.04	24	-1.96
100	5500	21.14	24	-2.86
120	5600	20.45	24	-3.55
140	5700	20.18	24	-3.82

Spectrum Reading offset				
Test CH		Attenuator	Cable Loss	Reading offset
CH No.	Freq. (MHz)	(dB)	(dB)	(dB)
36	5180	20	3.8	23.8
44	5220	20	3.8	23.8
48	5240	20	3.8	23.8
52	5260	20	4.2	24.2
60	5300	20	4.2	24.2
64	5320	20	4.2	24.2
100	5500	20	5.3	25.3
120	5600	20	5.3	25.3
140	5700	20	5.3	25.3

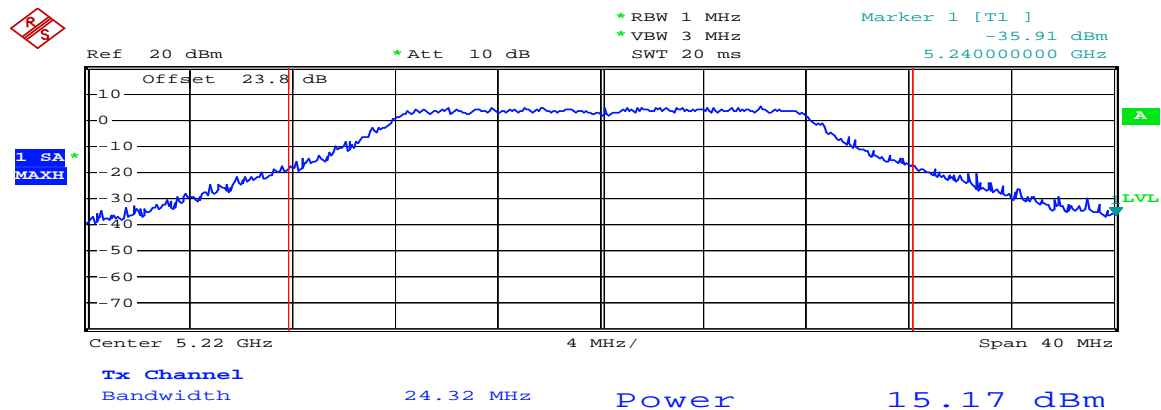
Spectrum Reading offset = Attenuator + Cable Loss

802.11 a 5180MHz



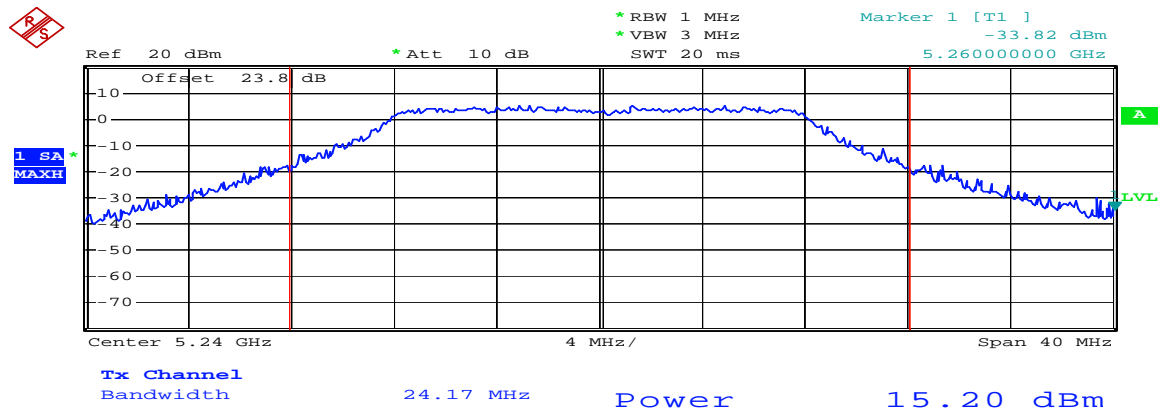
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802.11 a 5220MHz



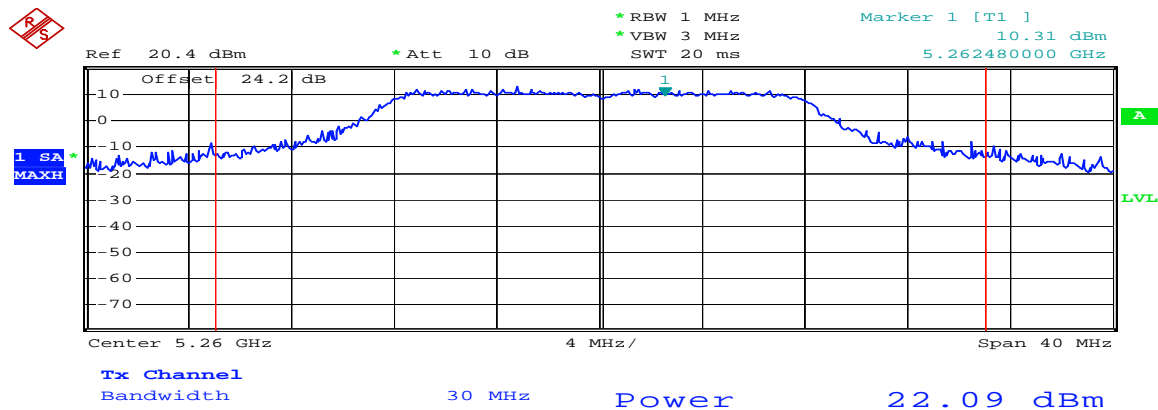
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802.11 a 5240MHz



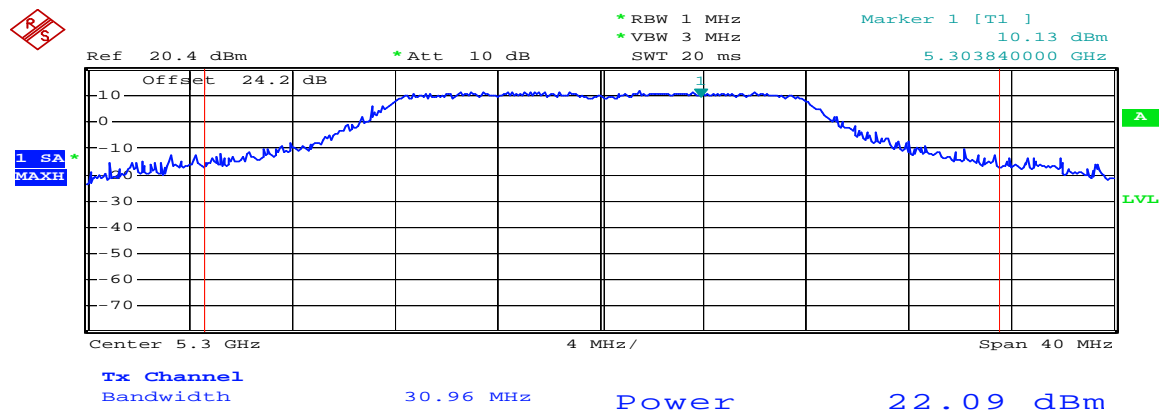
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802.11 a 5260MHz



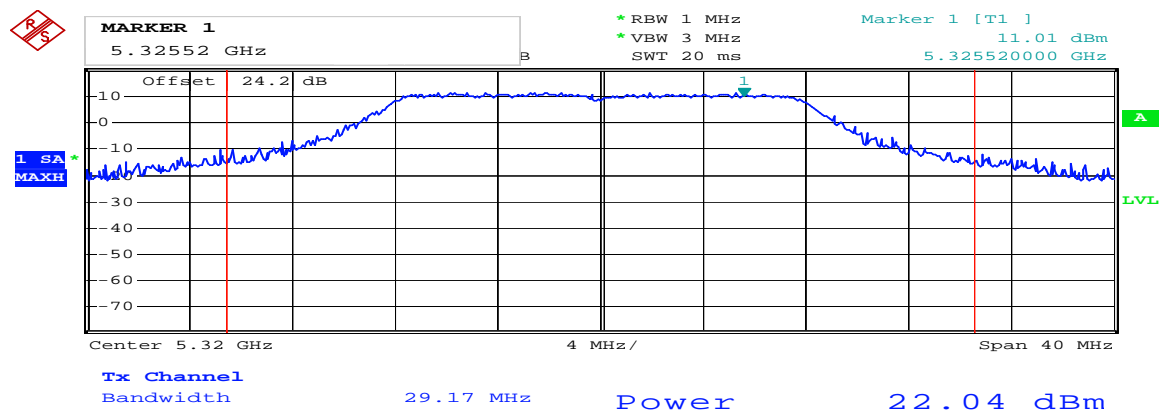
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802.11 a 5300MHz



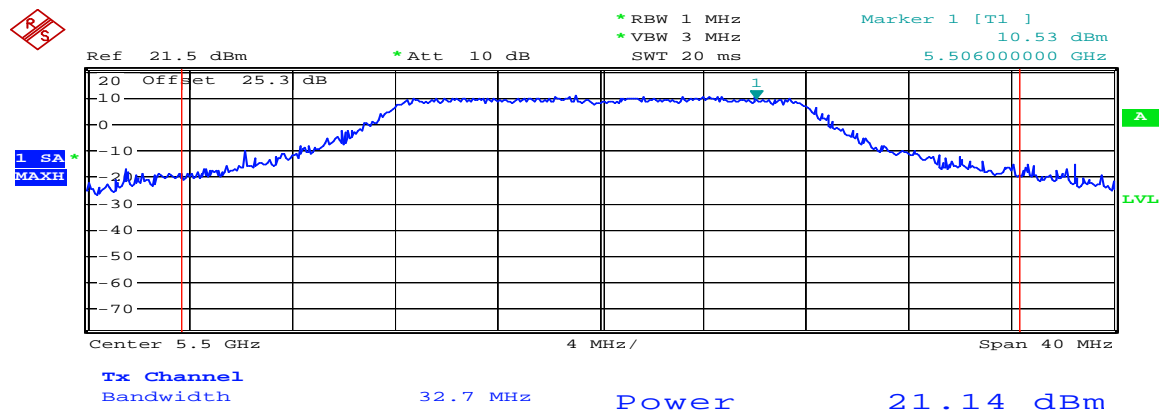
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802.11 a 5320MHz



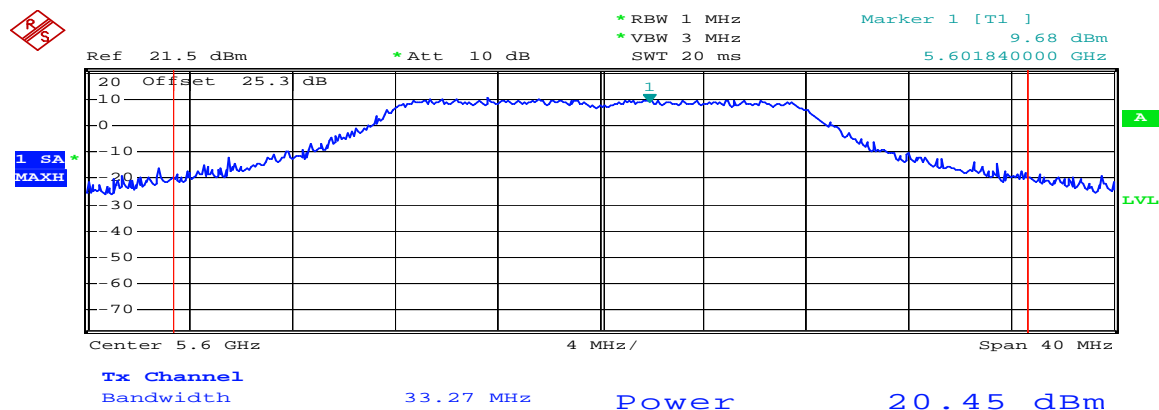
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802.11 a 5500MHz



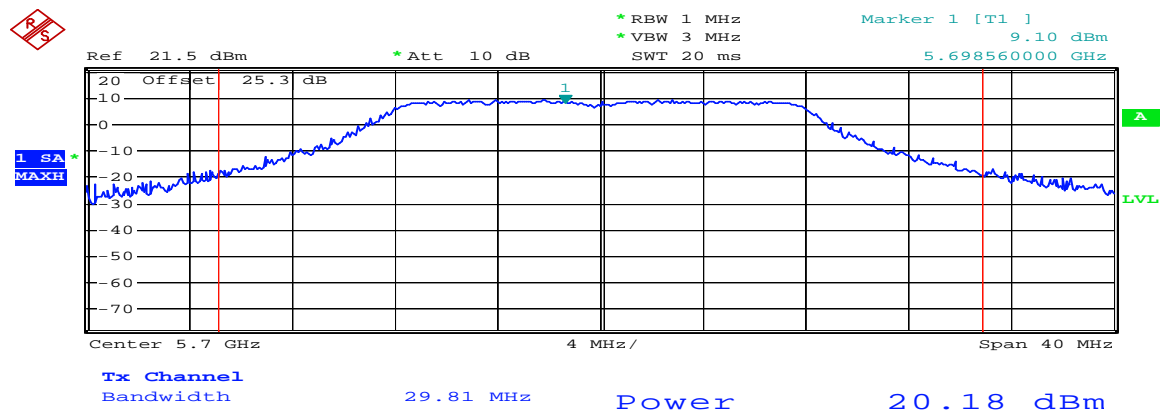
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802.11 a 5600MHz



Date: 4.JAN.2008 17:50:56

802.11 a 5700MHz



Date: 4.JAN.2008 17:52:28