

TEST REPORT

ACCORDING TO: FCC part 15 subpart E and RSS-210 Issue 8, Annex 9

FOR:

RADWIN Ltd.

**Outdoor radio unit operating
in the 5.8 GHz band**

**Model: RADWIN 1000,
RADWIN 2000,
RADWIN 5000**

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1 Applicant information

Client name: RADWIN Ltd.
Address: 27 Habarzel str., Tel Aviv 69710, Israel
Telephone: +972 3766 2988
Fax: +972 3766 2902
E-mail: shlomo_weiss@radwin.com
Contact name: Mr. Shlomo Weiss

2 Equipment under test attributes

Product name: Outdoor radio unit operating in the 5.8 GHz band
Product type: Point to Point and Point to Multipoint transceiver
Model(s): RADWIN 1000, RADWIN 2000, RADWIN 5000
Serial number: PUI580E100999999
Receipt date: 3/22/2010

3 Manufacturer information

Manufacturer name: RADWIN Ltd.
Address: 27 Habarzel str., Tel Aviv 69710, Israel
Telephone: +972 3766 2988
Fax: +972 3766 2902
E-Mail: shlomo_weiss@radwin.com
Contact name: Mr. Shlomo Weiss

4 Test details

Project ID: 20597
Location: Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel
Test started: 3/22/2010
Test completed: 4/15/2010
Test specification(s): FCC part 15 subpart E;
RSS-210 Issue 8:2010, Annex 9
RSS-Gen Issue 3:2010

5 Tests summary

Test	Status
Transmitter characteristics	
FCC Section 15.407(a)(3) / RSS-Gen, Section 4.6, Occupied 26 dB bandwidth	Measured
FCC Section 15.407(a)(3) / RSS-210, Section A9.2, Maximum peak output power	Pass
FCC Section 15.407(a)(3) / RSS-210, Section A9.2, Peak power spectral density	Pass
FCC Section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power	Pass
FCC Section 15.407(b) / RSS-210, Section A9.2, Unwanted radiated emission	Pass
FCC Section 15.407(b) / RSS-210, Section A9.2, Unwanted conducted emission	Pass
FCC Section 15.407(b)(6), 15.207/ RSS-Gen, Section 7.2.4, Conducted emission	Pass
FCC Section 15.407(f), / RSS-Gen, Section 5.6, RF exposure	Pass
FCC Section 15.407(g), Frequency stability	Pass
RSS-Gen, Section 6, 4.10, Receiver spurious radiated emission	Pass
RSS-Gen, Section 4.6.1, 99% emission occupied bandwidth	Measured
FCC section 15.203, RSS-Gen section 7.1.2, Antenna requirement	Pass

Note: The EUT model RADWIN 2000 with power setting that produced Maximum Output Power with maximum Antenna Gain 23.5 and 28 dBi was tested as the worst case between all RADWIN 1000, 2000, 5000 models. The more detailed description of RADWIN 1000, 2000, 5000 is provided in section 6.1 of the test report.

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested.

The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

This test report replaces the previously issued test report identified by Doc ID "RDWRAD_FCC.20597_21882".

	Name and Title	Date	Signature
Tested by:	Mr. S. Samokha, test engineer	April 15, 2010	
Reviewed by:	Ms. N. Averin, certification engineer	April 17, 2011	
Approved by:	Mr. M. Nikishin, EMC and Radio group manager	April 17, 2011	

6 EUT description

6.1 General information

The EUT, RADWIN 1000, RADWIN 2000, RADWIN 5000 is an outdoor unit (ODU). The power and Ethernet communication are supplied by an indoor unit (IDU) or PoE device. It has connectorized and integrated antenna configurations that can support dual pole antenna type. The RADWIN 1000 activates one RF port, RADWIN 2000 activates two RF ports for software configured Point to Point topology and RADWIN 5000 is identifier for software configured Point to Multipoint topology. For relevant output power setting versus each antenna type please refer to "RADWIN 5000 Antenna List and Power Settings" and "RADWIN 1000/2000 Antenna List and Power Settings" attached.

The EUT model RADWIN 2000 was tested as a worst case representative.

6.2 Ports and lines

Port type	Port description	Conn. from	Conn. to	Qty.	Cable type	Cable length	Indoor / outdoor
Power	DC Power+ Ethernet	IDU	EUT	1	Shielded	20	Outdoor
RF1	RF1 (Antenna 1)	EUT	Antenna	1	Coax	1*	Outdoor
RF2	RF2 (Antenna 2)	EUT	Antenna	1	Coax	1*	Outdoor
Power	DC Power	AC/DC adaptor	IDU	1	Unshielded	1.5	Indoor
Power	AC Power	mains	AC/DC adaptor	1	Unshielded	1.5	Indoor
Signal	Ethernet	Laptop	IDU	1	FTP	1.5	Indoor

*- corresponding feeder loss was supported by set of suitable attenuators

6.3 Support and test equipment

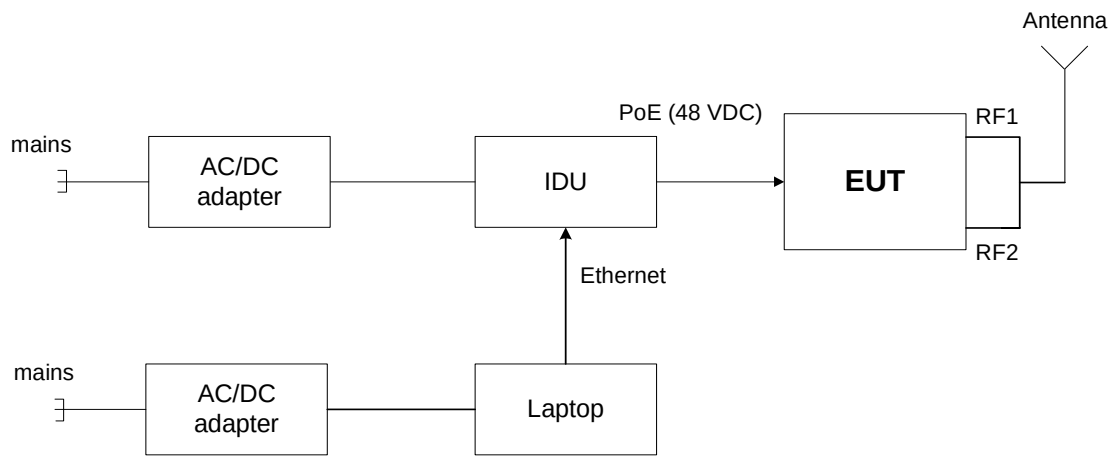
Description	Manufacturer	Model number	Serial number
IDU (for configuration with ODU)	RadWin Ltd.	IDU-E	DE000201267
AC/DC adapter	Switchbox	GPSU16E-8	EJ507542
Laptop	IBM	ThinkPad R50-e	99-DYCR3
AC/DC adapter	IBM	08K8202	11S08K8202Z1 ZAC755Y4F5

6.4 Changes made in the EUT

No changes were implemented.



6.5 Test configuration





6.6 Transmitter characteristics

Type of equipment			
☒ V	Stand-alone (Equipment with or without its own control provisions)		
☐	Combined equipment (Equipment where the radio part is fully integrated within another type of equipment)		
☐	Plug-in card (Equipment intended for a variety of host systems)		
Intended use		Condition of use	
☒ V	Fixed	Always at a distance more than 2 m from all people	
☐	mobile	Always at a distance more than 20 cm from all people	
☐	portable	May operate at a distance closer than 20 cm to human body	
Assigned frequency range		5725 - 5825 MHz	
Operating frequency range		5730 - 5820 MHz	
RF channel bandwidth		5 MHz, 10 MHz, 20 MHz, 40 MHz	
Maximum rated output power	Peak (conducted)	Antenna 22.5 dBi & Antenna 24.0 dBi	EBW 5 MHz 17.58 dBm EBW 10 MHz 26.39 dBm EBW 20 MHz 26.37 dBm EBW 40 MHz 24.44 dBm
		Antenna 28 dBi	EBW 5 MHz 11.68 dBm EBW 10 MHz 23.37 dBm EBW 20 MHz 24.54 dB EBW 40 MHz 23.85 dBm
		Antenna 15.5 dBi	EBW 5 MHz 15.2 dBm EBW 10 MHz 18.5 dBm EBW 20 MHz 20.5 dBm EBW 40 MHz 20.5 dBm
		Antenna 13.0 dBi	EBW 5 MHz 17.5 dBm EBW 10 MHz 20.9 dBm EBW 20 MHz 23.0 dBm EBW 40 MHz 23.0 dBm
		Antenna 6 dBi	EBW 5 MHz 23.14 dBm EBW 10 MHz 26.11 dBm EBW 20 MHz 26.71 dBm EBW 40 MHz 29.36 dBm
Is transmitter output power variable?	☒ V	☐ No	
	☐ Yes	☐	continuous variable
		☐	stepped variable with stepsize
		☐	minimum RF power
		☐	maximum RF power
Antenna connection			
☐ unique coupling	☒ V standard connector	☐ Integral	☐ with temporary RF connector ☐ without temporary RF connector
Antenna/s technical characteristics			
Type	Manufacturer	Model number	Antenna assembly gain
Dish – Dual polarized External	RADWIN Ltd.	RW-9721-5158	27.9 dBi (28.9 dBi with 1.0 dB feeder loss)
Flat Panel – Dual polarized Integrated	RADWIN Ltd.	RW-9611-4958INT	24.0 dBi
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9611-4958	22.5 dBi (23.5 dBi with 1 dB feeder loss)
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9611-4958	6 dBi (23.5 dBi with 17.5 dB feeder loss)
Dish – Dual polarized External	RADWIN Ltd.	RW-9721-5158	6 dBi (28.9 dBi with 22.9 dB feeder loss)
Flat Panel Dual Pole External	RADWIN Ltd.	RW-9061-5002	15.5 dBi (16.5 dBi with 1 dB feeder loss)
Flat Panel Dual Pole External	RADWIN Ltd.	RW-9061-5001	13.0 dBi (14.0 dBi with 1 dB feeder loss)
Flat Panel Dual Pole External	RADWIN Ltd.	RW-9061-5002	6 dBi (16.5 dBi with 10.5 dB feeder loss)
Flat Panel Dual Pole External	RADWIN Ltd.	RW-9061-5001	6 dBi (14.0 dBi with 8.0 dB feeder loss)



Transmitter 99% power bandwidth	Transmitter aggregate data rate/s, MBps	Type of modulation (OFDM)
5 MHz	3.25	BPSK
	32.5	64QAM
10 MHz	6.5	BPSK
	65	64QAM
20 MHz	13	BPSK
	130	64QAM
40 MHz	27	BPSK
	270	64QAM
Modulating test signal (baseband)		OFDM
Maximum transmitter duty cycle in normal use	92%	
Maximum transmitter duty cycle for test purposes	100%	

Table 6.6.1 Measurement frequencies

Channel bandwidth, MHz	Channel frequency, MHz				
	Low band edge	Low in band	Mid	High in band	High band edge
5	5730	5735	5775	5815	5820
5 (with 6 dBi antenna)	5730	NA	5775	NA	5820
10	5735	5740	5775	5810	5815
10 (with 6 dBi antenna)	5730	5735	5775	5815	5820
20 (with 6 dBi antenna)	5735	5740	5775	5810	5815
20 (with 22.5 dBi and 28 dBi antennas)	5735	5755	5775	5795	5815
40	5745	NA	5775	NA	5805

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks:			

7 Transmitter tests according to 47CFR part 15 subpart E and RSS-210 Annex 9 requirements

7.1 Peak output power and peak spectral power density

7.1.1 General

This test was performed to measure the maximum peak output power and the peak spectral power density at the transmitter RF antenna connector. Specification test limits are given in Table 7.1.1.

Table 7.1.1 Peak output power and peak spectral power density limits

Assigned frequency range, MHz	Maximum peak transmit power*, dBm	Peak spectral power density*, dBm	Measurement bandwidth, MHz
5725 - 5825	The lesser of 1 W or 17 dBm +10 log B**	17.0	1.0

*Note: "B" is the 26-dB emission bandwidth in MHz.

7.1.2 Test procedure

7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and its proper operation was checked.

7.1.2.2 The EUT was set to transmit modulated carrier at maximum data rate.

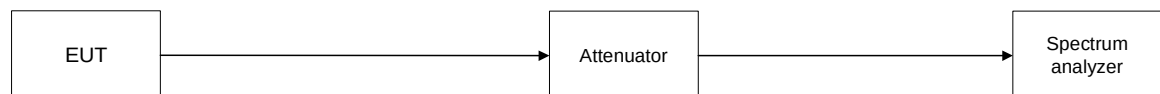
7.1.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequencies at low and high edges and at the middle of the frequency range shown in Table 7.1.1. The transmitter 26 dB bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in the associated tables and plots.

7.1.2.4 The EUT was adjusted to produce maximum available for end user RF output power.

7.1.2.5 The peak output power measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low, mid and high edges with a sample detector. The power was computed by integrating the spectrum across the 26 dB bandwidth of the signal as provided in the associated tables and plots.

7.1.2.6 The peak power spectral density was measured using a sample detector and power averaging mode to find the highest level across the emission in any 1-MHz band after 100 sweeps of averaging. The test results are provided in the associated tables and plots.

Figure 7.1.1 Peak output power test setup



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.2 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 6 dBi
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	26 dB Bandwidth	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5745.0	46.800	27	BPSK	20.95	23.95	30.00	-6.05	Pass
5745.0	47.400	270	64QAM	20.96	23.96	30.00	-6.04	Pass
Mid channel								
5775.0	49.650	27	BPSK	26.36	29.36	30.00	-0.64	Pass
5775.0	48.150	270	64QAM	26.26	29.26	30.00	-0.74	Pass
High channel Band Edge								
5805.0	47.700	27	BPSK	20.09	23.09	30.00	-6.91	Pass
5805.0	46.950	270	64QAM	19.95	22.95	30.00	-7.05	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.3 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 6 dBi
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5735	23.400	13	BPSK	15.37	18.37	30.00	-11.63	Pass
5735	23.700	130	64QAM	15.56	18.56	30.00	-11.44	Pass
Low channel In-Band								
5740	23.775	13	BPSK	23.55	26.55	30.00	-3.45	Pass
5740	23.325	130	64QAM	23.63	26.63	30.00	-3.37	Pass
Mid channel								
5775	24.375	13	BPSK	22.85	25.85	30.00	-4.15	Pass
5775	23.925	130	64QAM	23.71	26.71	30.00	-3.29	Pass
High channel In-Band								
5810	24.000	13	BPSK	22.71	25.71	30.00	-4.29	Pass
5810	23.100	130	64QAM	22.30	25.30	30.00	-4.70	Pass
High channel Band Edge								
5815	23.550	13	BPSK	14.68	17.68	30.00	-12.32	Pass
5815	23.775	130	64QAM	14.74	17.74	30.00	-12.26	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.4 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
MODULATING SIGNAL: OFDM
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
ANTENNA ASSEMBLY GAIN: 6 dBi
EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5730	14.350	6.5	BPSK	11.03	14.03	28.07	-14.04	Pass
5730	13.400	65	64QAM	11.42	14.42	27.77	-13.35	Pass
Low channel In-Band								
5735	15.150	6.5	BPSK	22.65	25.65	28.30	-2.65	Pass
5735	14.000	65	64QAM	22.58	25.58	27.96	-2.38	Pass
Mid channel								
5775	14.200	6.5	BPSK	22.64	25.64	28.02	-2.38	Pass
5775	14.700	65	64QAM	23.11	26.11	28.17	-2.06	Pass
High channel In-Band								
5815	14.150	6.5	BPSK	22.21	25.21	28.01	-2.80	Pass
5815	14.650	65	64QAM	21.85	24.85	28.16	-3.31	Pass
High channel Band Edge								
5820	14.750	6.5	BPSK	9.71	12.71	28.19	-15.48	Pass
5820	14.050	65	64QAM	9.70	12.70	27.98	-15.28	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.5 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 6 dBi
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5730	6.750	3.25	BPSK	20.14	23.14	24.79	-1.65	Pass
5730	6.825	32.5	64QAM	20.04	23.04	24.84	-1.80	Pass
Mid channel								
5775	6.900	3.25	BPSK	20.01	23.01	24.89	-1.88	Pass
5775	6.825	32.5	64QAM	19.62	22.62	24.84	-2.22	Pass
High channel Band Edge								
5820	7.050	3.25	BPSK	19.22	22.22	24.98	-2.76	Pass
5820	6.800	32.5	64QAM	18.59	21.59	24.83	-3.24	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787			
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Full description is given in Appendix A.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.6 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 6 dBi
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5745.0	27	BPSK	0.91	3.91	17.0	-13.09	Pass
5745.0	270	64QAM	0.90	3.90	17.0	-13.10	Pass
Mid channel							
5775.0	27	BPSK	6.18	9.18	17.0	-7.82	Pass
5775.0	270	64QAM	6.23	9.23	17.0	-7.77	Pass
High channel Band Edge							
5805.0	27	BPSK	0.51	3.51	17.0	-13.49	Pass
5805.0	270	64QAM	0.14	3.14	17.0	-13.86	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.7 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 6 dBi
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5735	13	BPSK	-1.99	1.01	17.0	-15.99	Pass
5735	130	64QAM	-2.29	0.71	17.0	-16.29	Pass
Low channel In-Band							
5740	13	BPSK	7.36	10.36	17.0	-6.64	Pass
5740	130	64QAM	6.68	9.68	17.0	-7.32	Pass
Mid channel							
5775	13	BPSK	6.46	9.46	17.0	-7.54	Pass
5775	130	64QAM	5.99	8.99	17.0	-8.01	Pass
High channel In-Band							
5810	13	BPSK	5.46	8.46	17.0	-8.54	Pass
5810	130	64QAM	6.39	9.39	17.0	-7.61	Pass
High channel Band Edge							
5815	13	BPSK	-3.13	-0.13	17.0	-17.13	Pass
5815	130	64QAM	-2.83	0.17	17.0	-16.83	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.8 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 6 dBi
 EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5730	6.5	BPSK	-3.67	-0.67	17.0	-17.67	Pass
5730	65	64QAM	-3.82	-0.82	17.0	-17.82	Pass
Low channel In-Band							
5735	6.5	BPSK	7.90	10.90	17.0	-6.10	Pass
5735	65	64QAM	8.52	11.52	17.0	-5.48	Pass
Mid channel							
5775	6.5	BPSK	7.75	10.75	17.0	-6.25	Pass
5775	65	64QAM	7.70	10.70	17.0	-6.30	Pass
High channel In-Band							
5815	6.5	BPSK	6.53	9.53	17.0	-7.47	Pass
5815	65	64QAM	7.35	10.35	17.0	-6.65	Pass
High channel Band Edge							
5820	6.5	BPSK	-4.78	-1.78	17.0	-18.78	Pass
5820	65	64QAM	-4.56	-1.56	17.0	-18.56	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Table 7.1.9 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 23.5 dBi
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5730	3.25	BPSK	8.32	11.32	17.0	-5.68	Pass
5730	32.5	64QAM	9.26	12.26	17.0	-4.74	Pass
Mid channel							
5775	3.25	BPSK	7.94	10.94	17.0	-6.06	Pass
5775	32.5	64QAM	7.47	10.47	17.0	-6.53	Pass
High channel Band Edge							
5820	3.25	BPSK	7.50	10.50	17.0	-6.50	Pass
5820	32.5	64QAM	6.93	9.93	17.0	-7.07	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

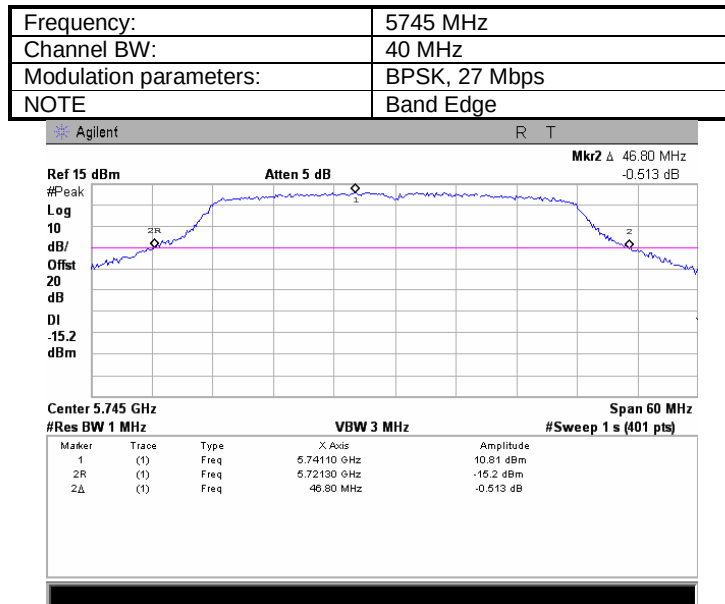
Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787			
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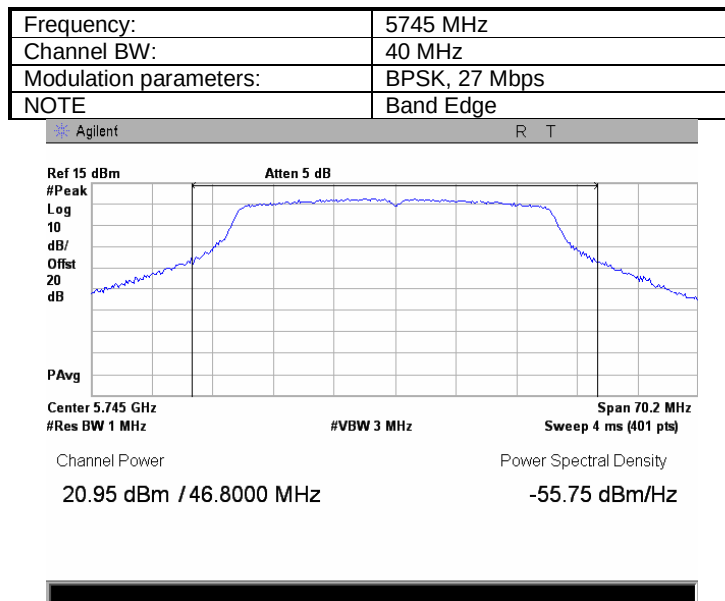
Full description is given in Appendix A.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.1 The 26 dB emission bandwidth

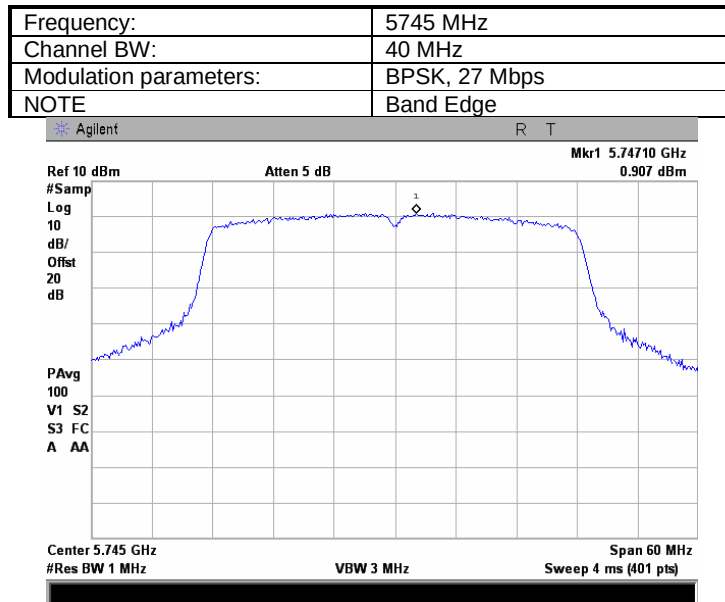


Plot 7.1.2 Peak output power

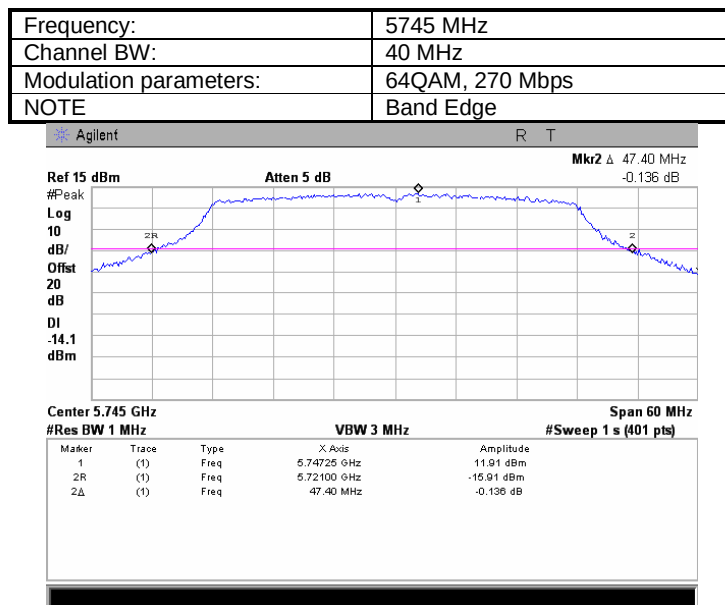


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.3 Peak spectral power density



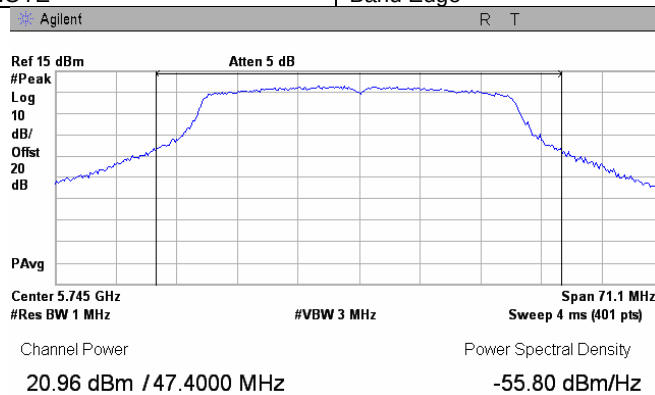
Plot 7.1.4 The 26 dB emission bandwidth



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict: PASS	
Date:			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

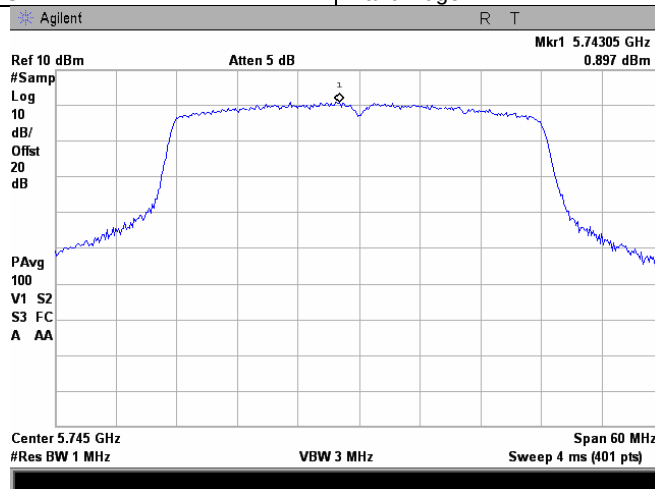
Plot 7.1.5 Peak output power

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



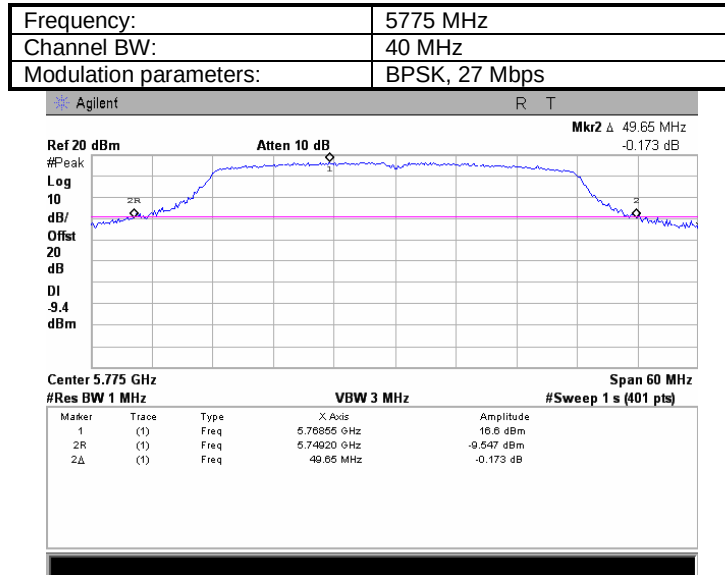
Plot 7.1.6 Peak spectral power density

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

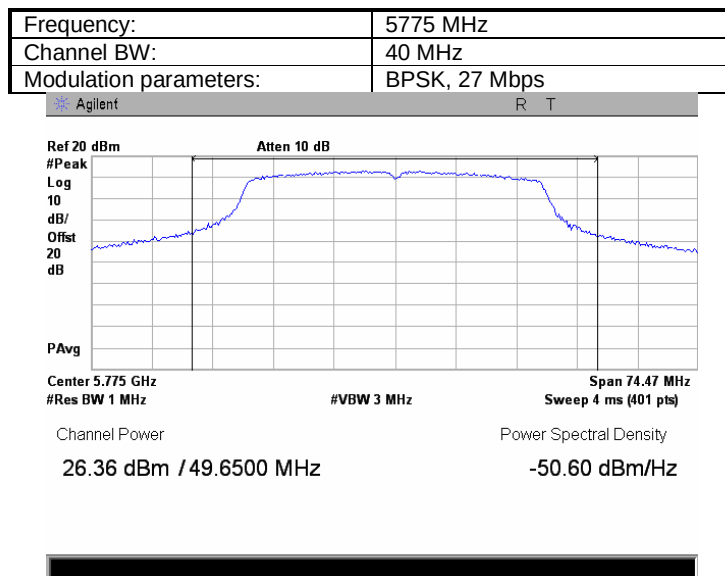


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.7 The 26 dB emission bandwidth

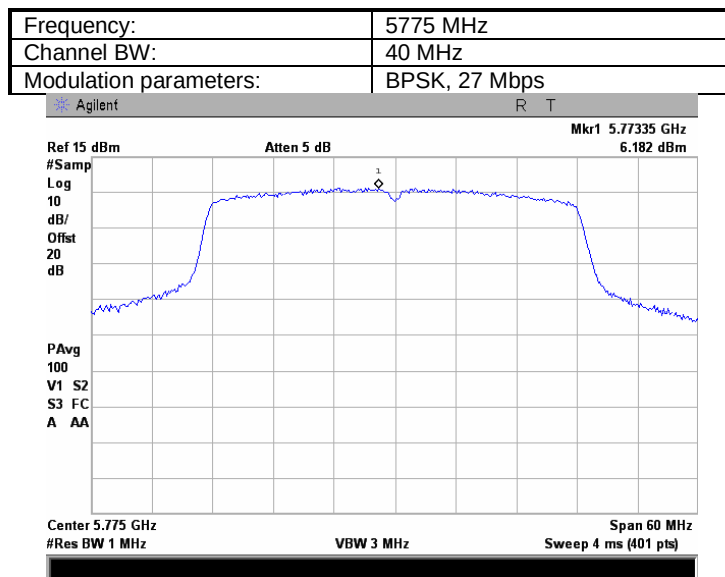


Plot 7.1.8 Peak output power

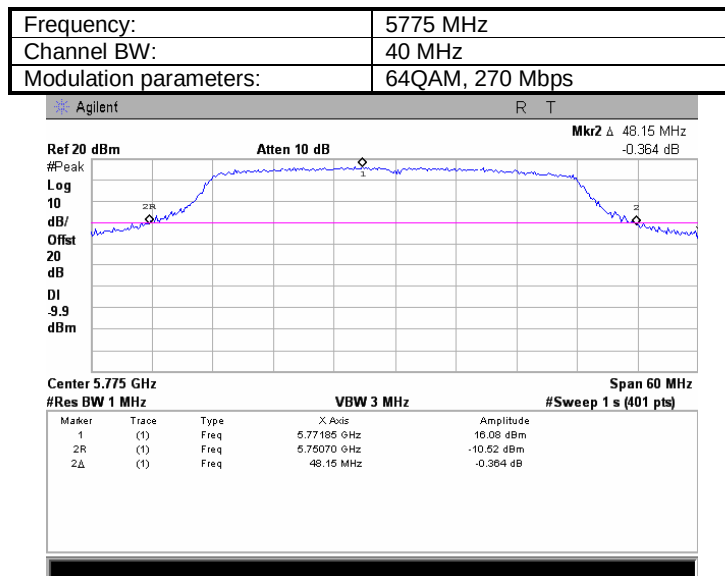


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.9 Peak spectral power density

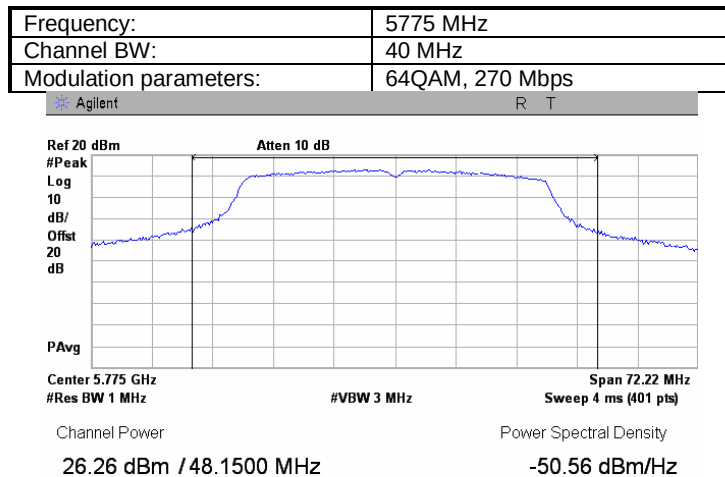


Plot 7.1.10 The 26 dB emission bandwidth

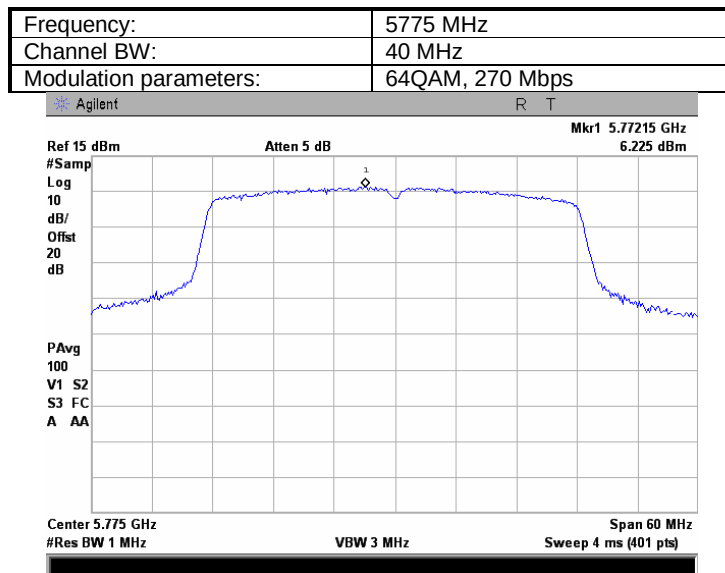


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.11 Peak output power

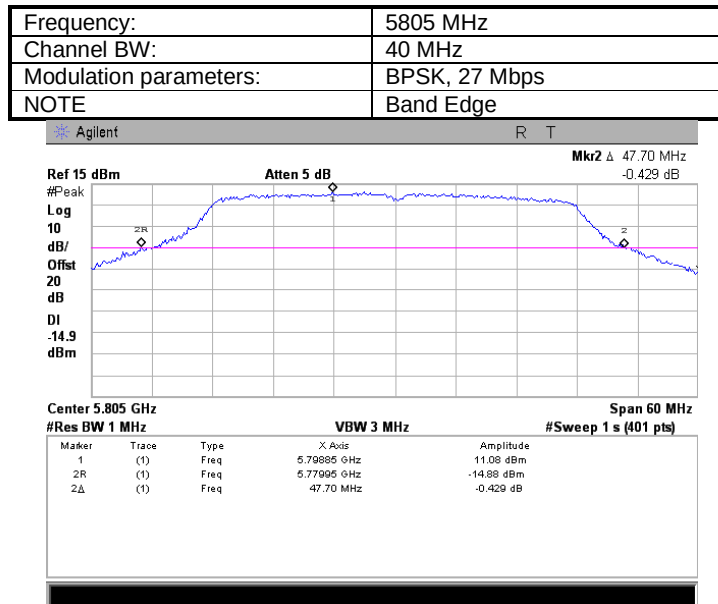


Plot 7.1.12 Peak spectral power density

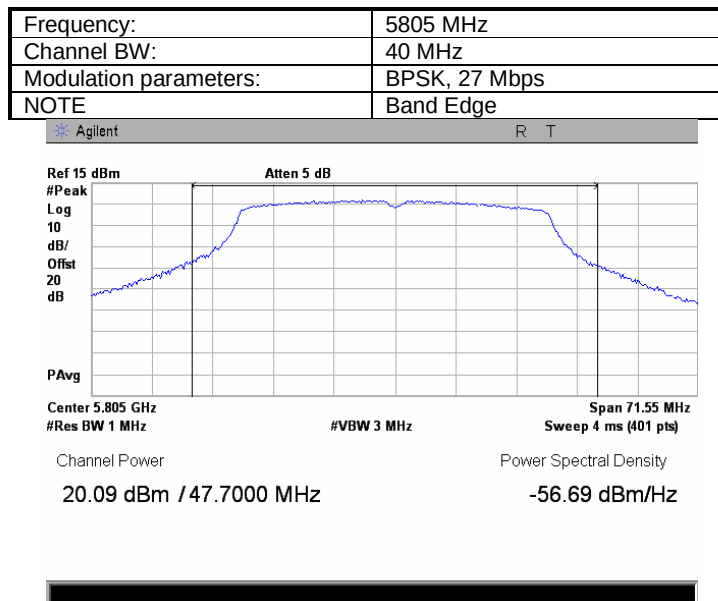


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.13 The 26 dB emission bandwidth

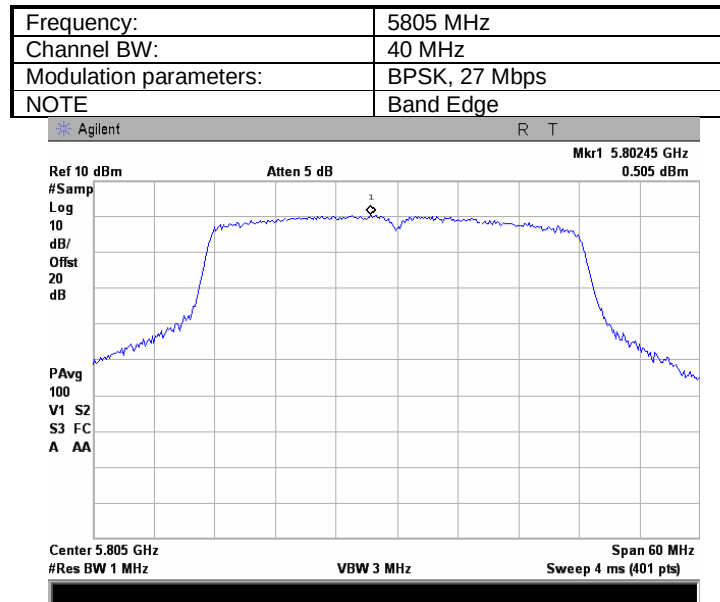


Plot 7.1.14 Peak output power

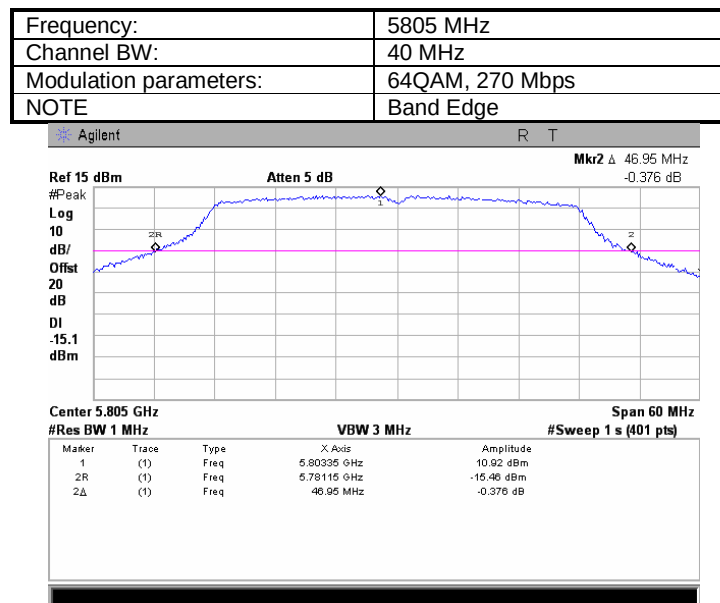


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.15 Peak spectral power density



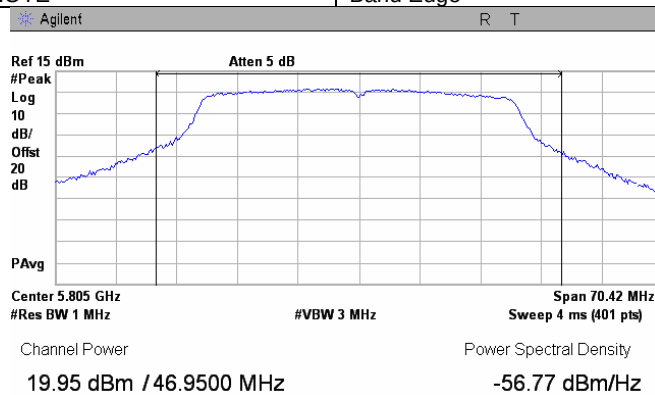
Plot 7.1.16 The 26 dB emission bandwidth



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

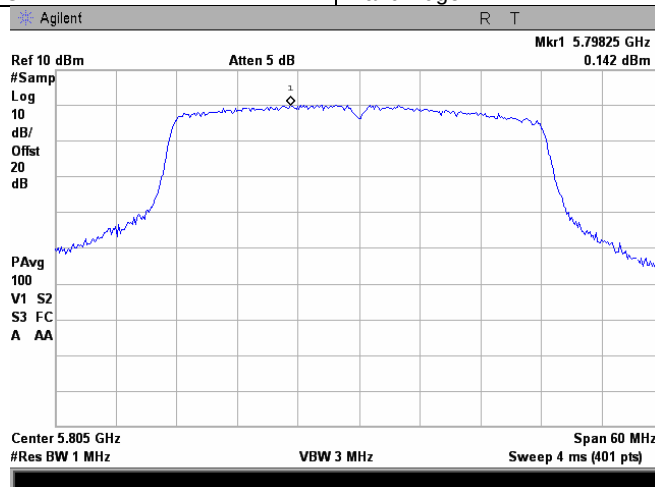
Plot 7.1.17 Peak output power

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



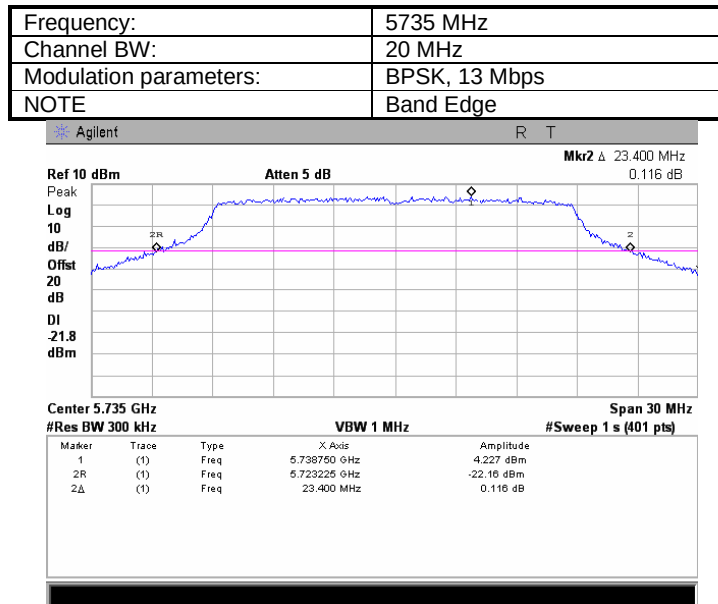
Plot 7.1.18 Peak spectral power density

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

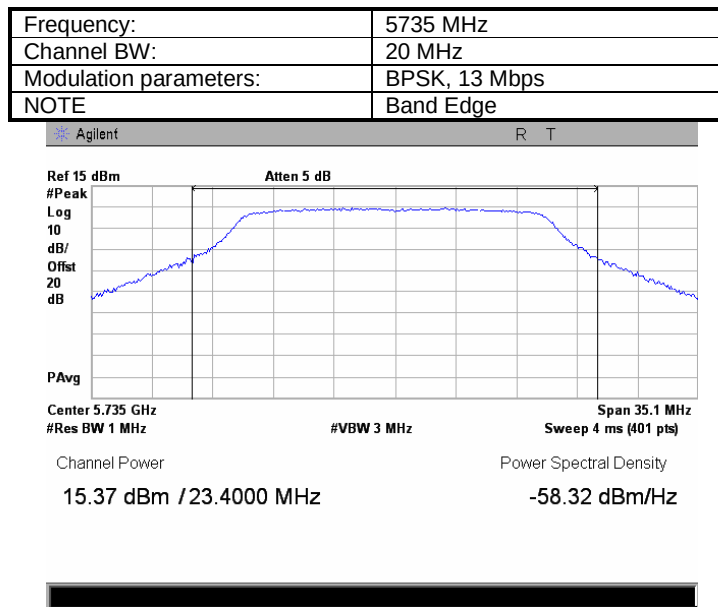


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.19 The 26 dB emission bandwidth



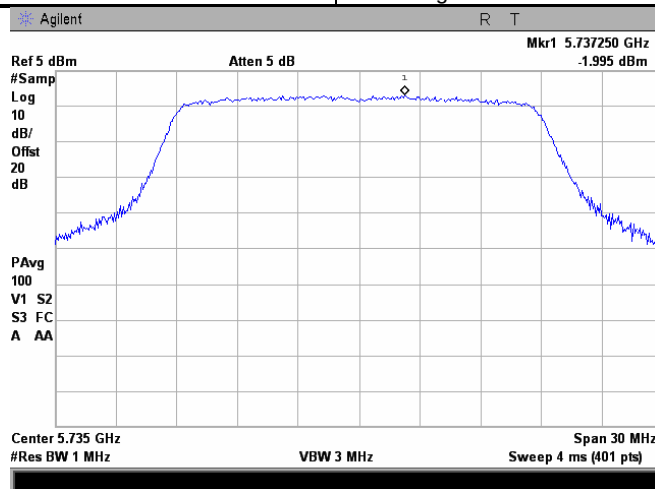
Plot 7.1.20 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

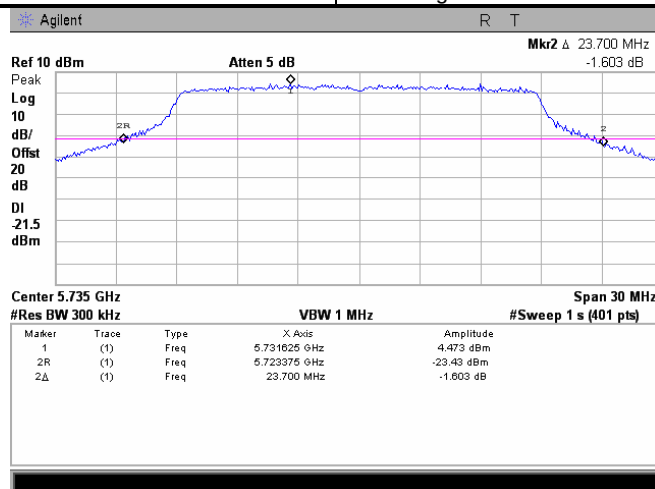
Plot 7.1.21 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Band Edge



Plot 7.1.22 The 26 dB emission bandwidth

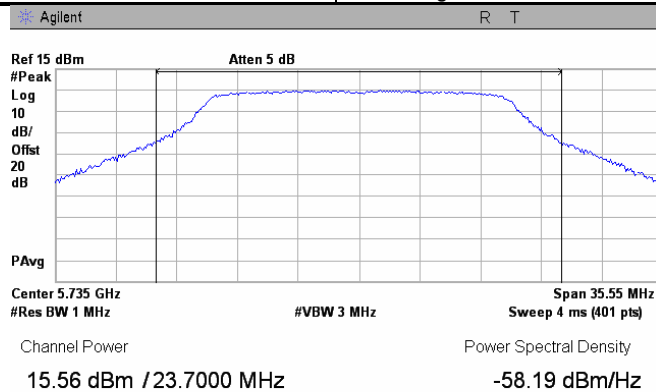
Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

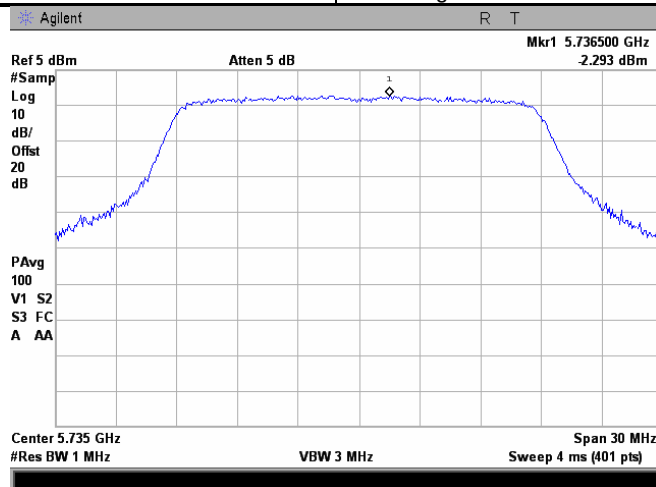
Plot 7.1.23 Peak output power

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



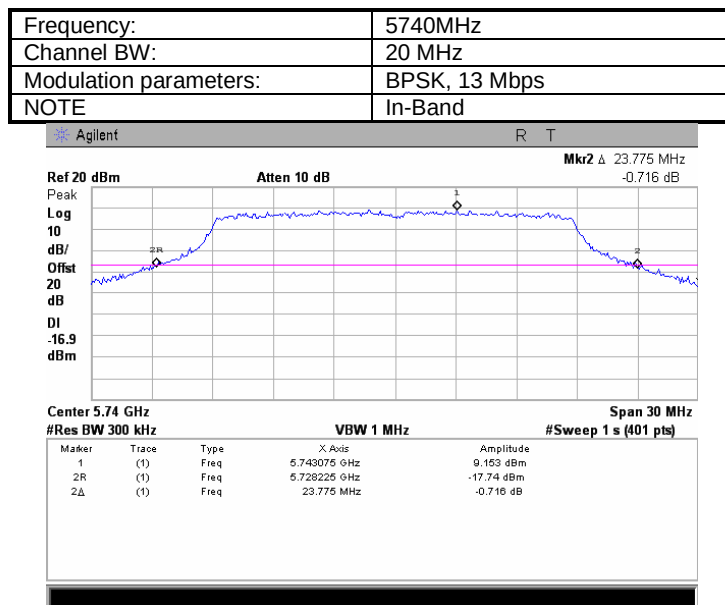
Plot 7.1.24 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

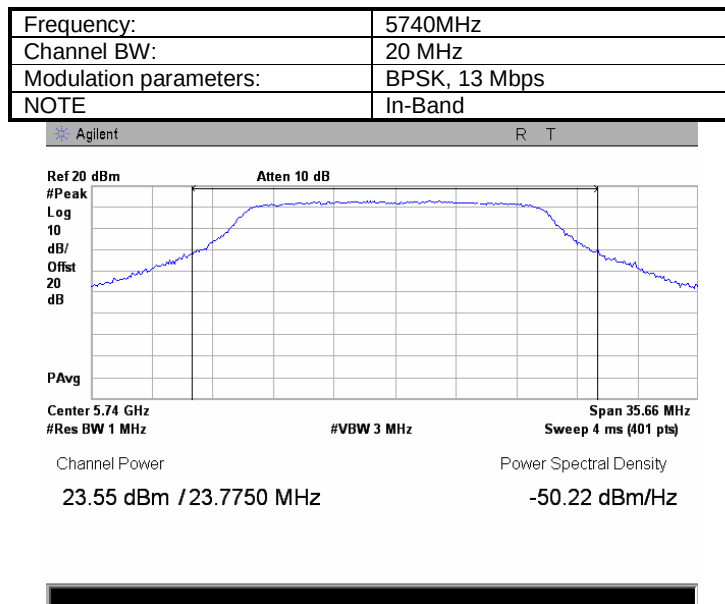


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.25 The 26 dB emission bandwidth



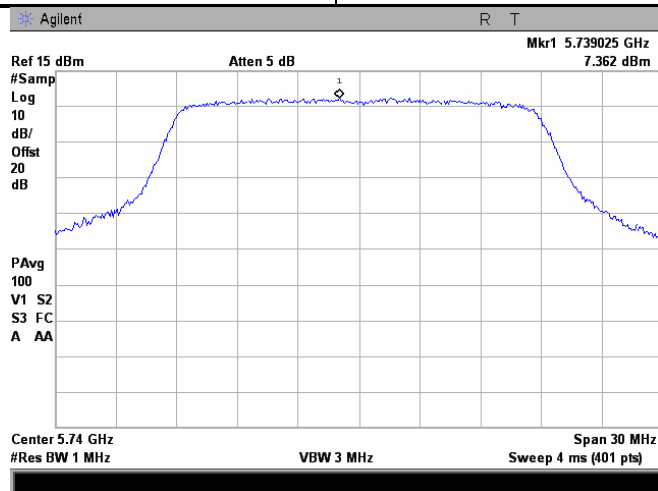
Plot 7.1.26 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict:	
Date:		PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

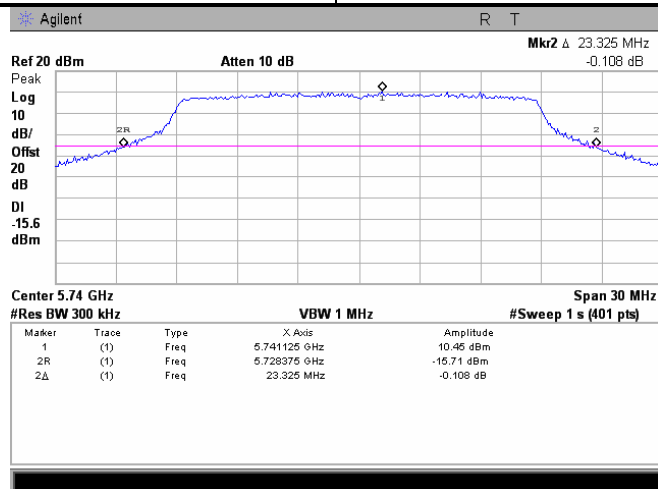
Plot 7.1.27 Peak spectral power density

Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	In-Band



Plot 7.1.28 The 26 dB emission bandwidth

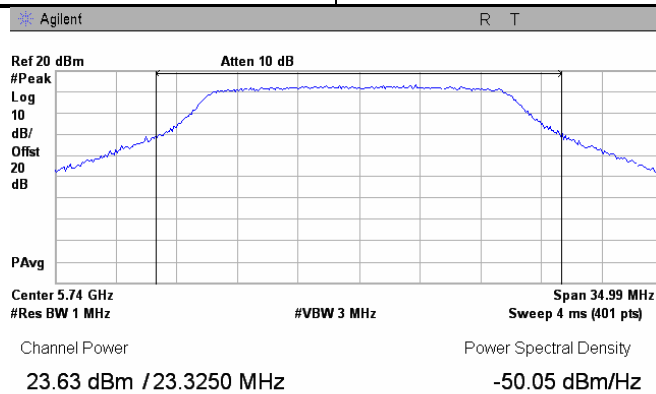
Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

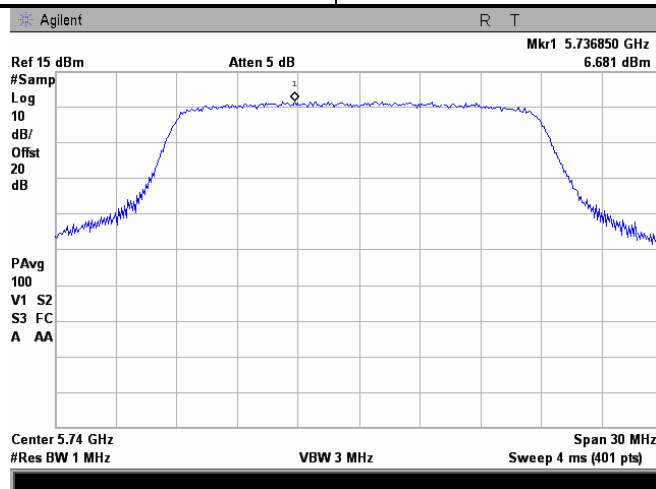
Plot 7.1.29 Peak output power

Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



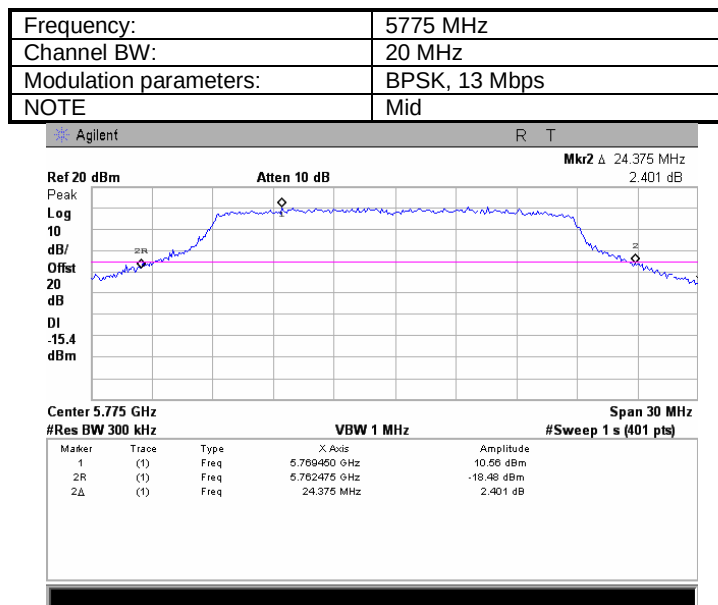
Plot 7.1.30 Peak spectral power density

Frequency:	5740MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

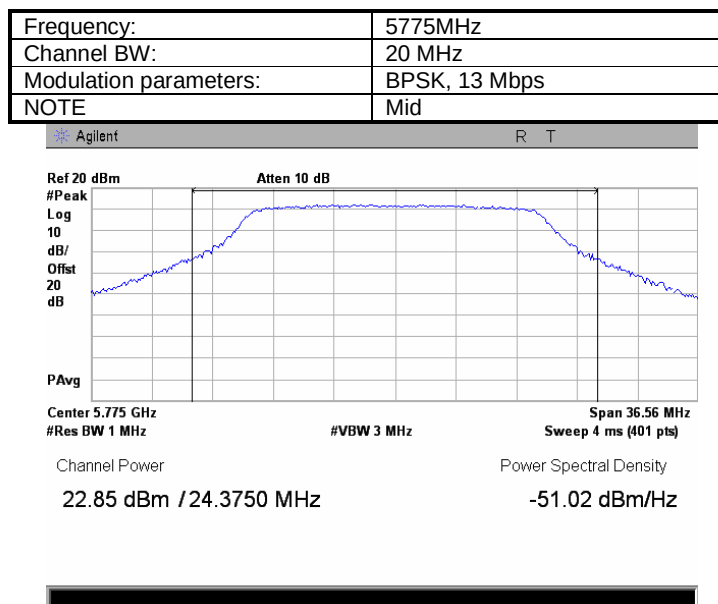


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict:	
Date:		PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.31 The 26 dB emission bandwidth



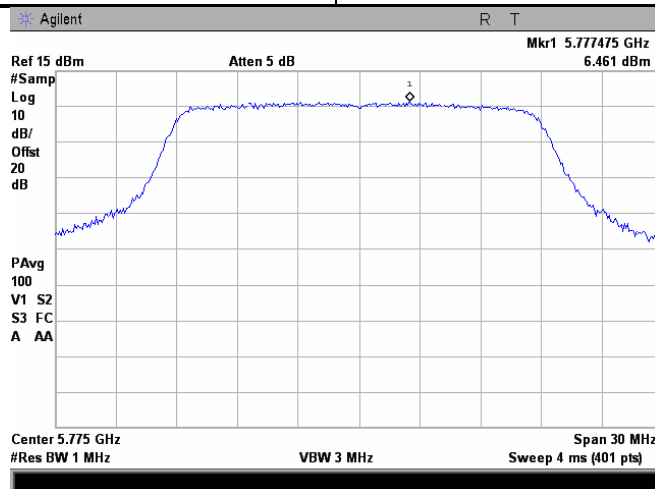
Plot 7.1.32 Peak output power



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

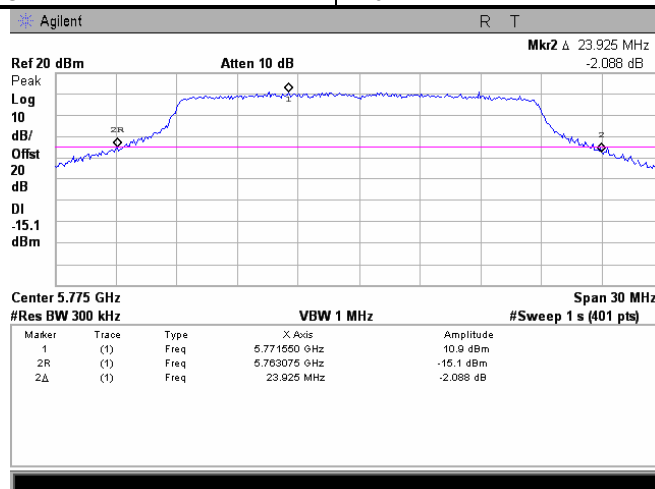
Plot 7.1.33 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Mid



Plot 7.1.34 The 26 dB emission bandwidth

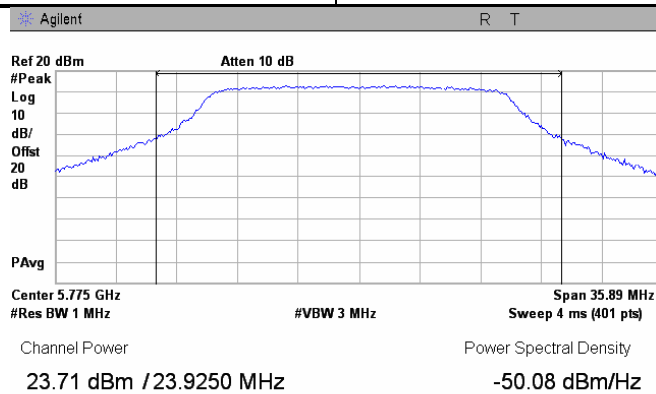
Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

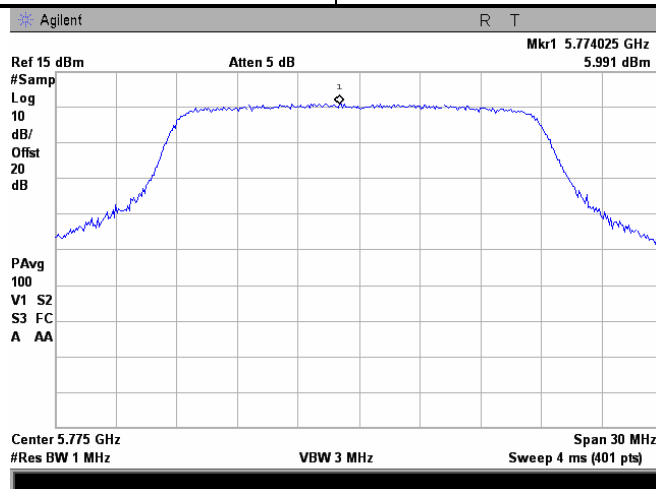
Plot 7.1.35 Peak output power

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid



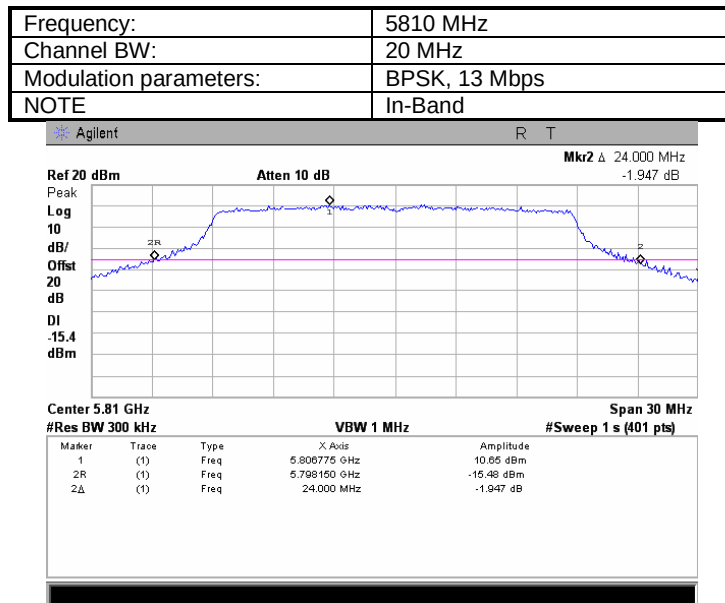
Plot 7.1.36 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

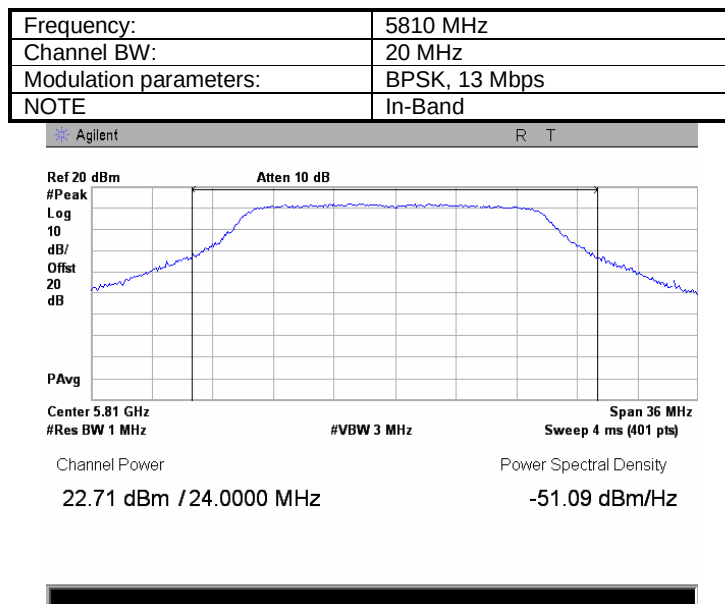


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.37 The 26 dB emission bandwidth



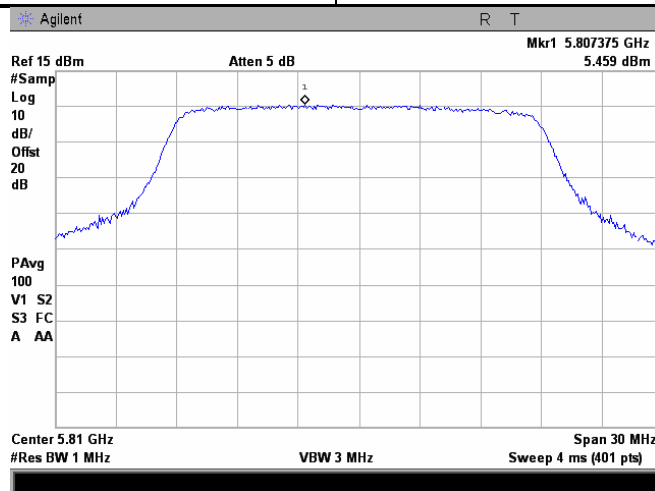
Plot 7.1.38 Peak output power



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

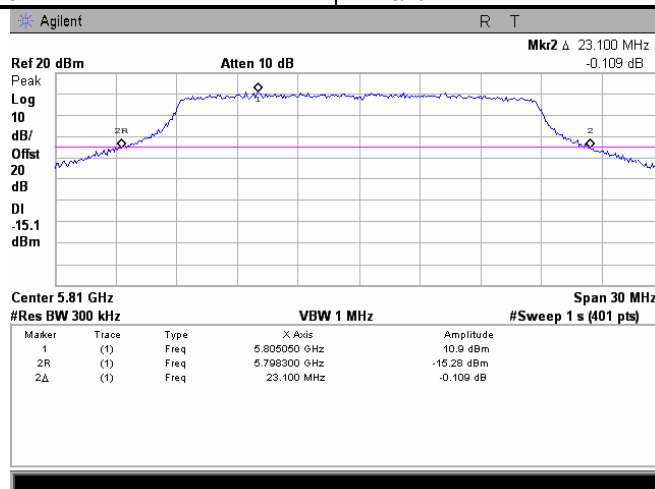
Plot 7.1.39 Peak spectral power density

Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	In-Band



Plot 7.1.40 The 26 dB emission bandwidth

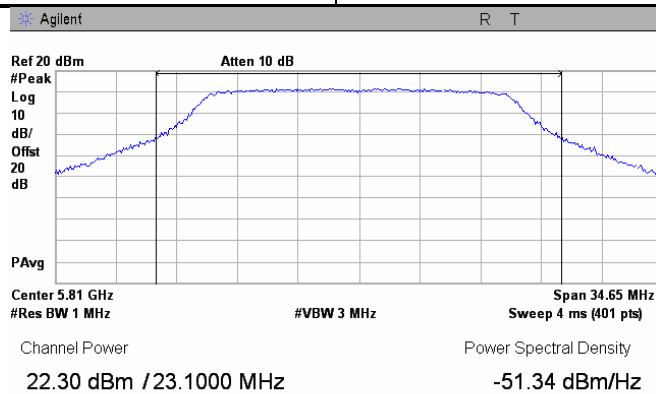
Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

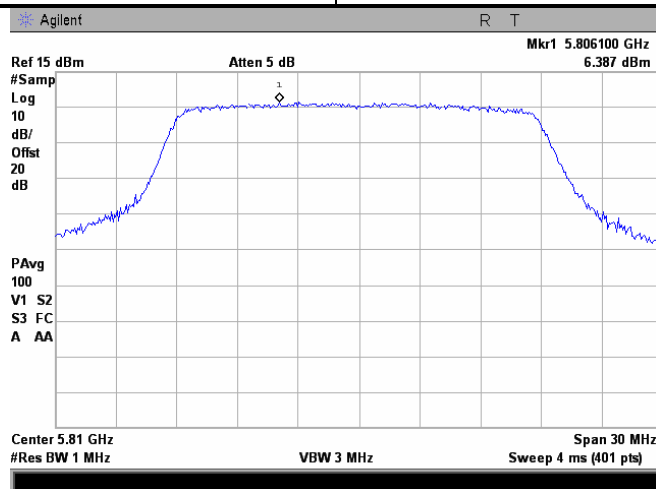
Plot 7.1.41 Peak output power

Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



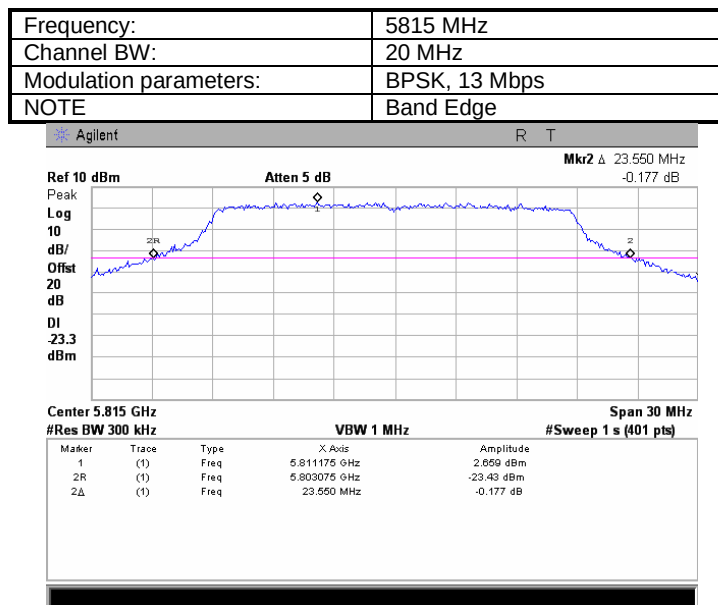
Plot 7.1.42 Peak spectral power density

Frequency:	5810 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

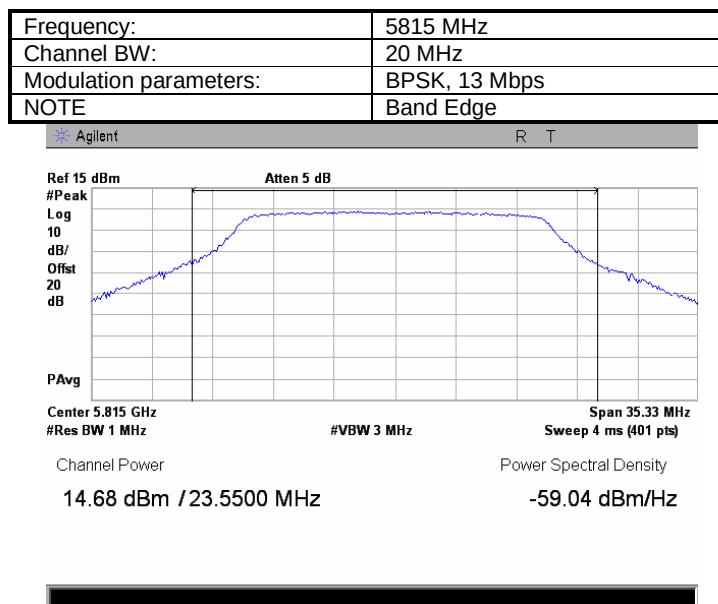


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict:	
Date:		PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.43 The 26 dB emission bandwidth



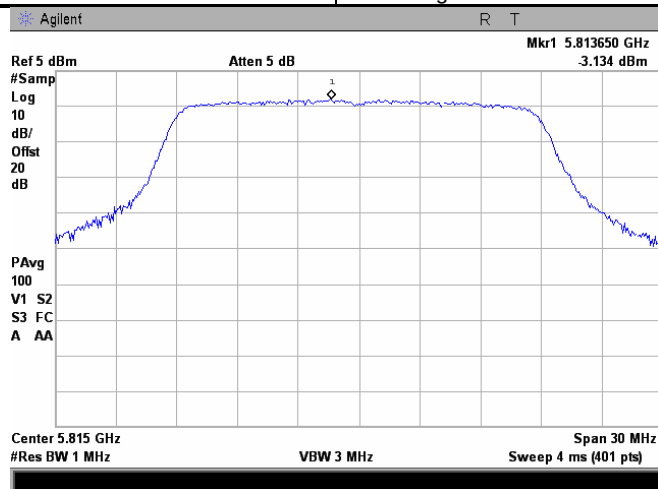
Plot 7.1.44 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

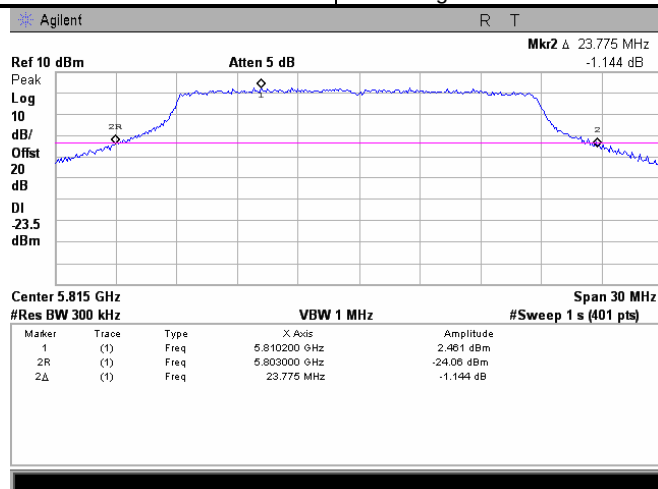
Plot 7.1.45 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Band Edge



Plot 7.1.46 The 26 dB emission bandwidth

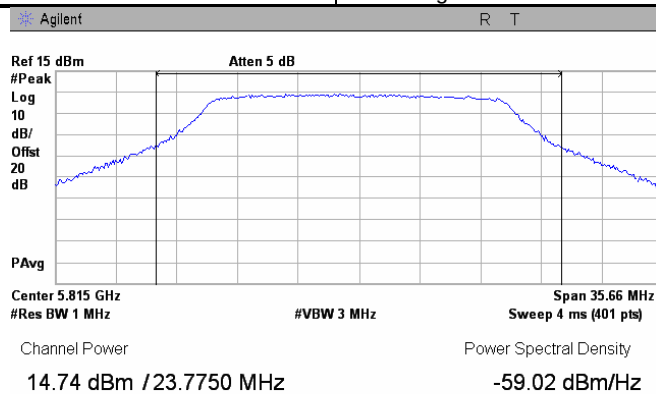
Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

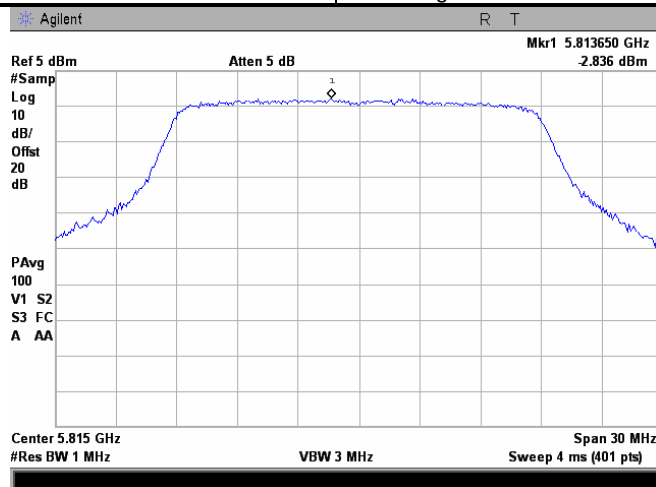
Plot 7.1.47 Peak output power

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



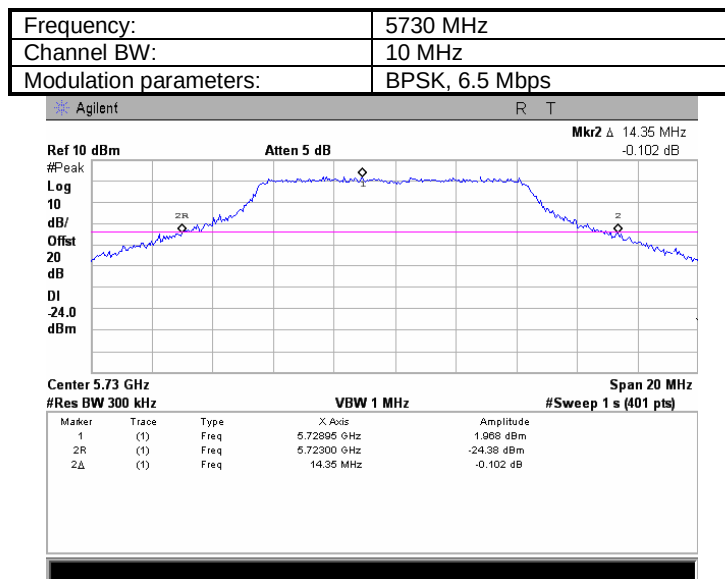
Plot 7.1.48 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

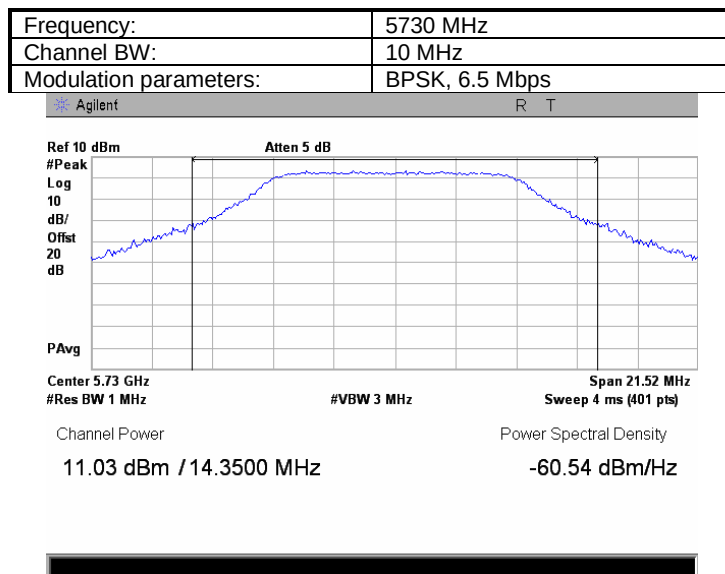


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.49 The 26 dB emission bandwidth

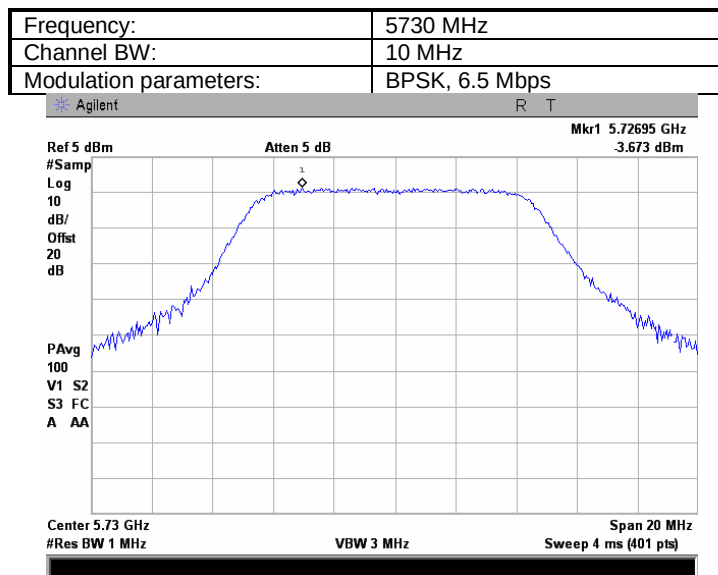


Plot 7.1.50 Peak output power

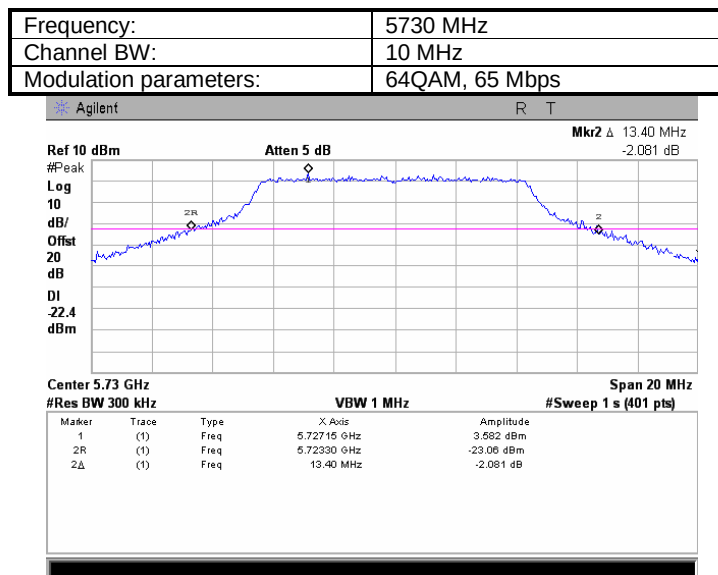


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.51 Peak spectral power density

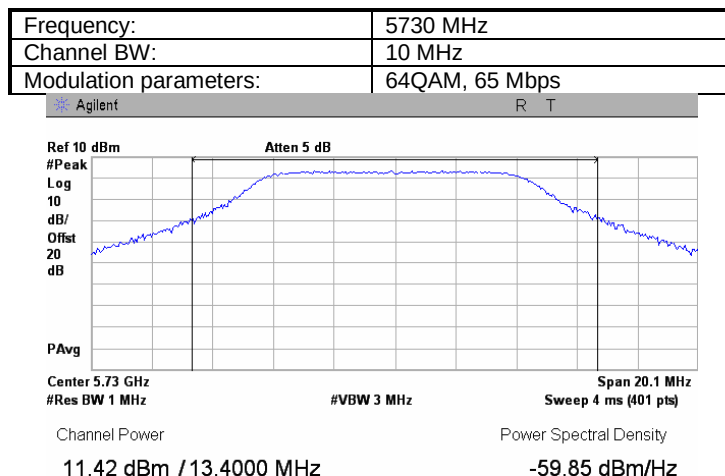


Plot 7.1.52 The 26 dB emission bandwidth

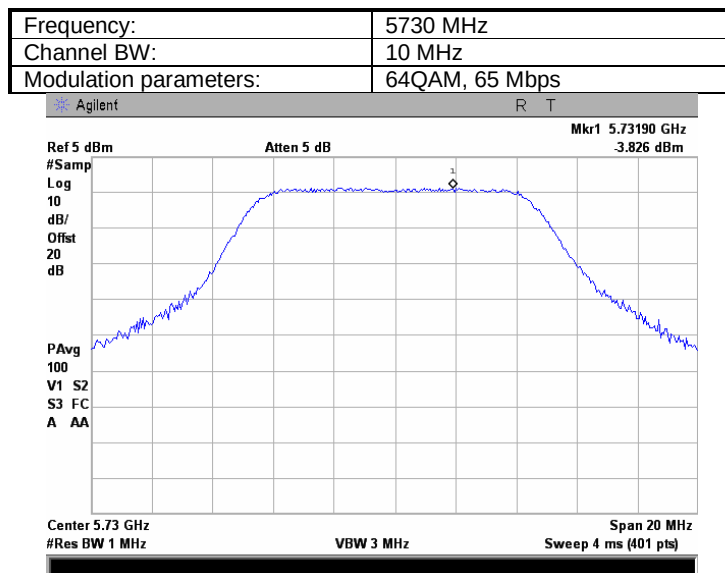


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.53 Peak output power

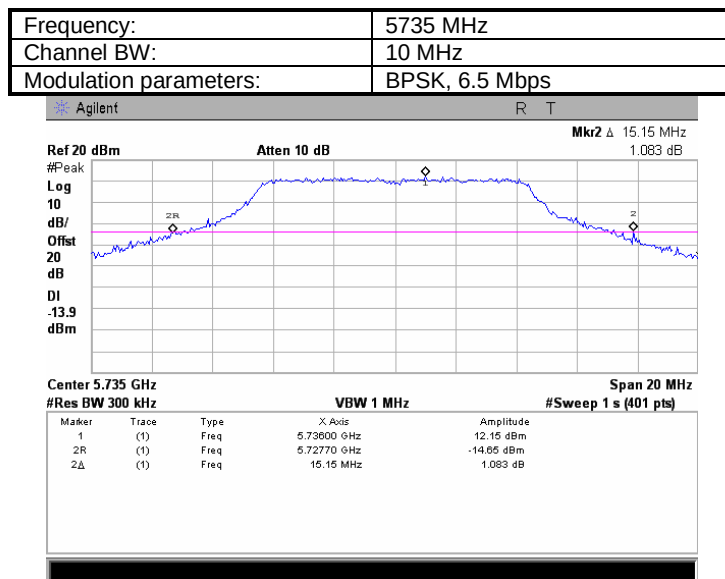


Plot 7.1.54 Peak spectral power density

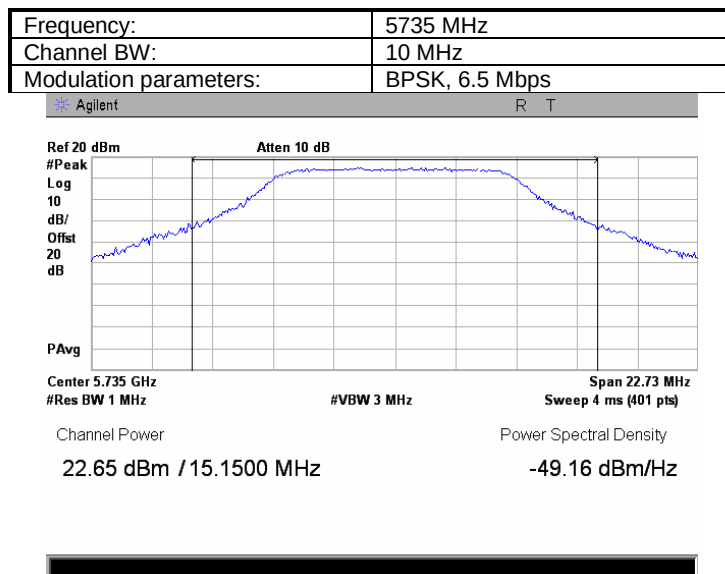


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.55 The 26 dB emission bandwidth

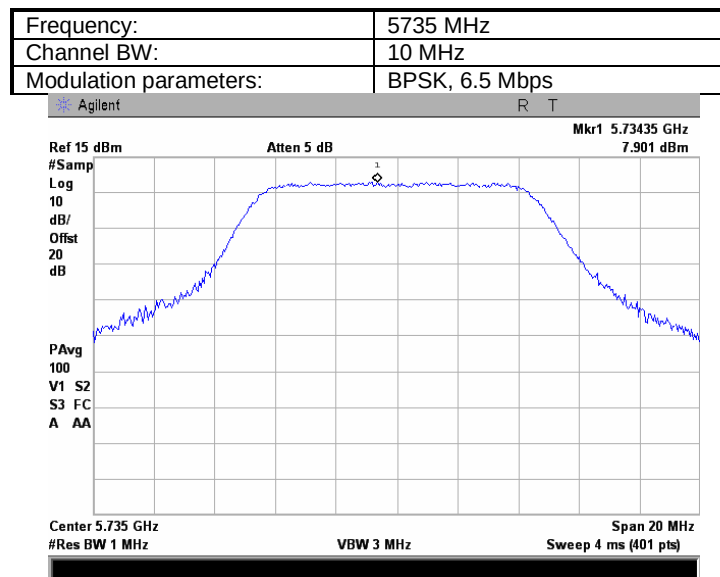


Plot 7.1.56 Peak output power

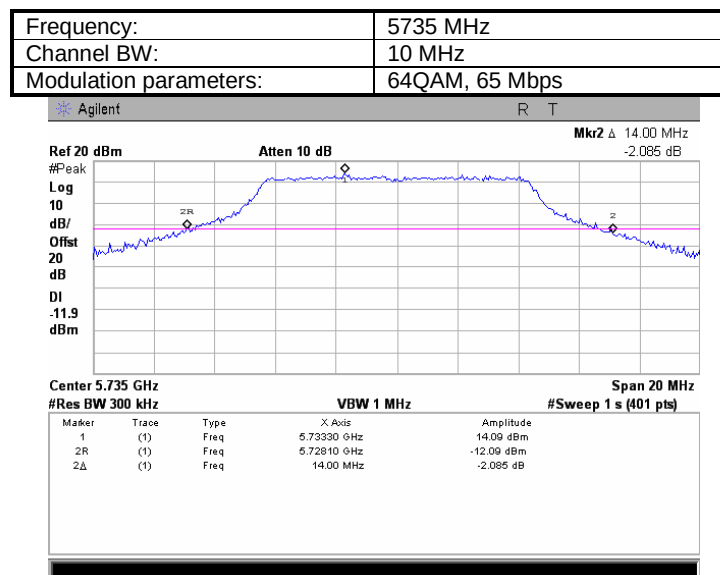


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.57 Peak spectral power density

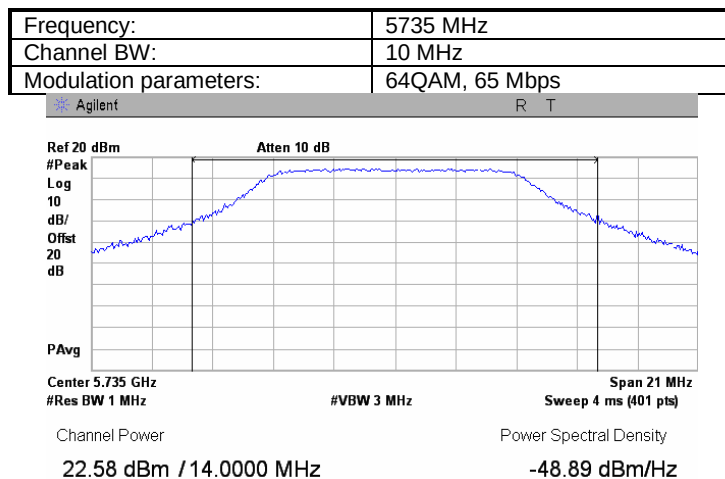


Plot 7.1.58 The 26 dB emission bandwidth

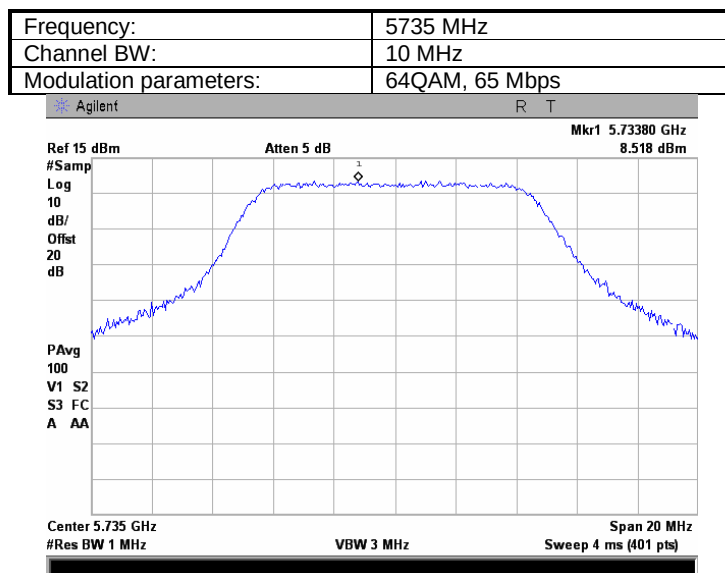


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.59 Peak output power

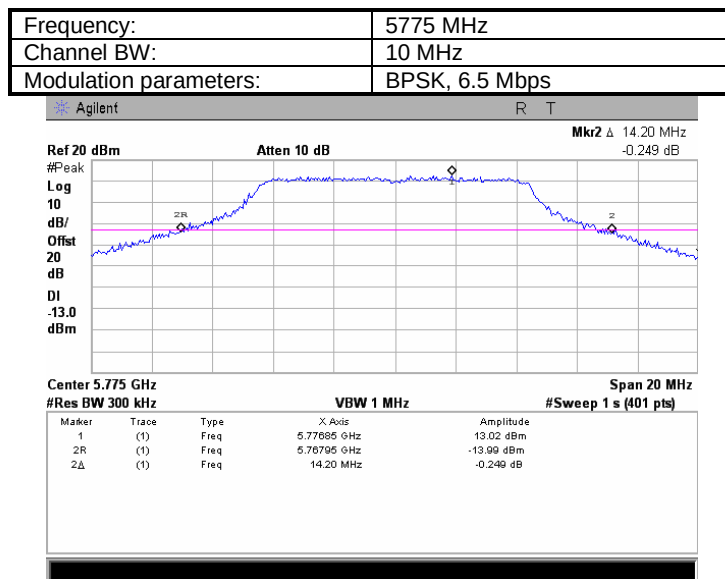


Plot 7.1.60 Peak spectral power density

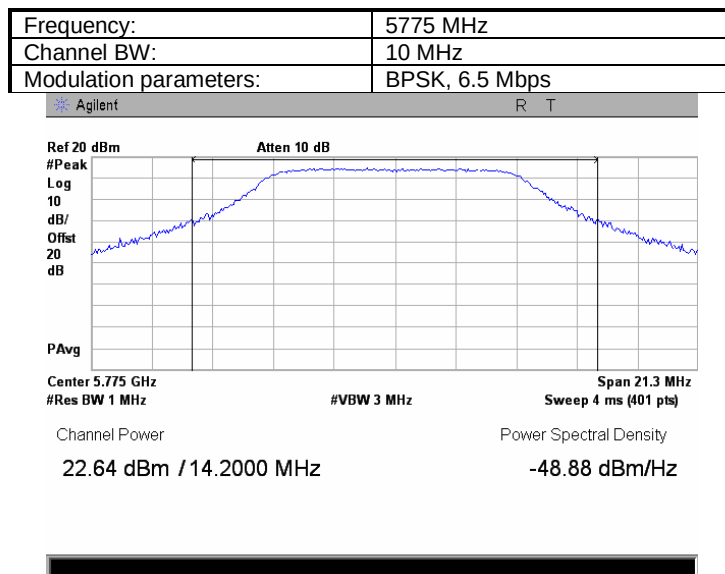


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict: PASS	
Date:			
Temperature: 24 °C		Air Pressure: 1012 hPa	
		Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.61 The 26 dB emission bandwidth

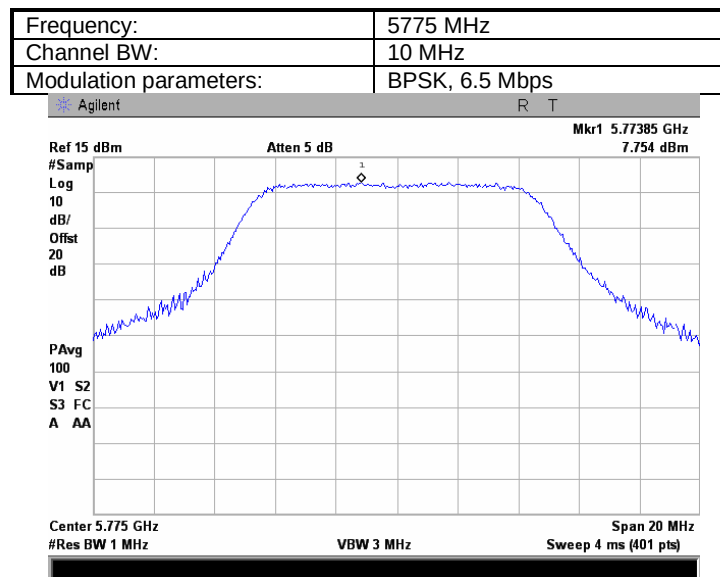


Plot 7.1.62 Peak output power

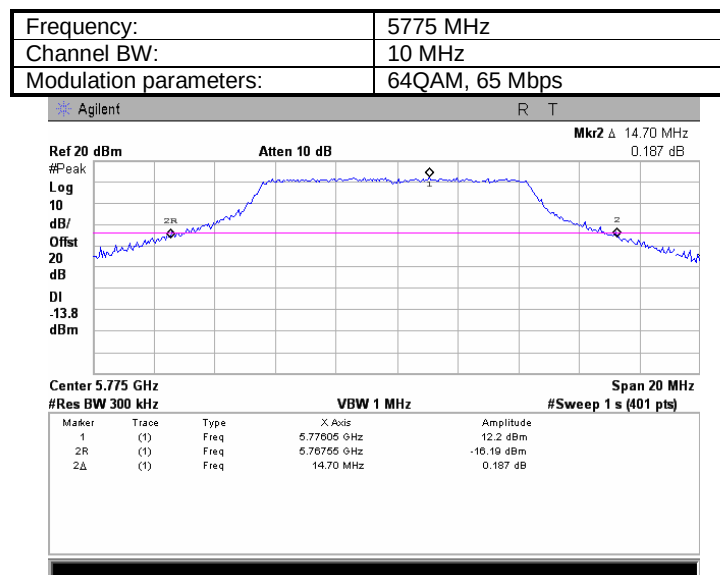


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.63 Peak spectral power density

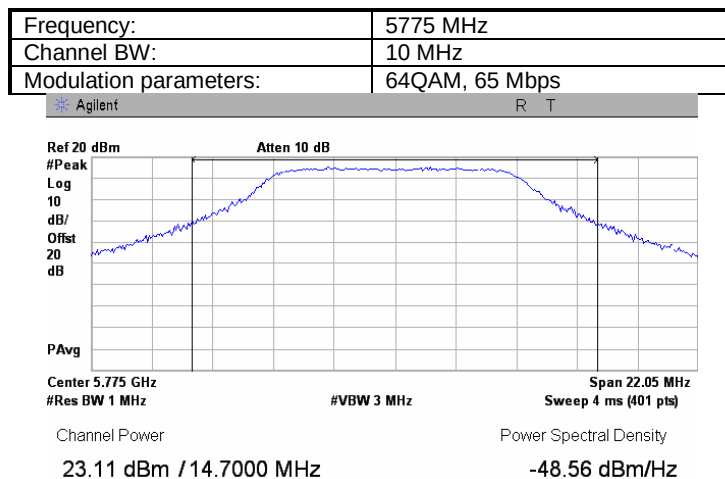


Plot 7.1.64 The 26 dB emission bandwidth

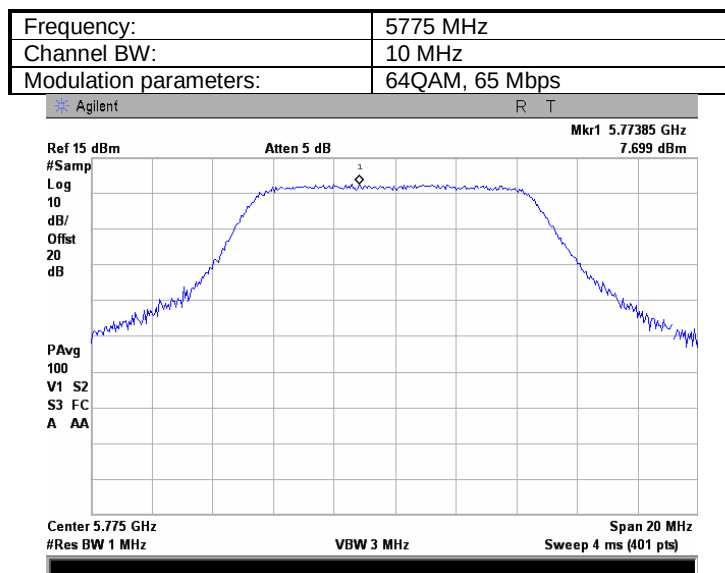


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.65 Peak output power

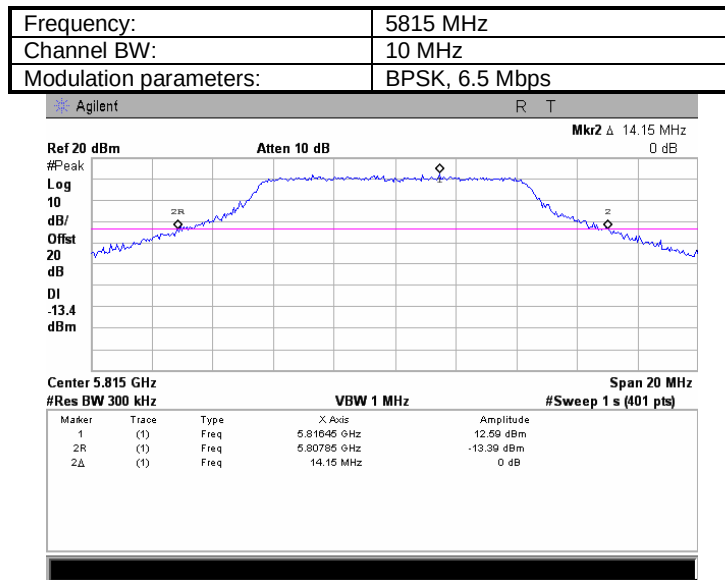


Plot 7.1.66 Peak spectral power density

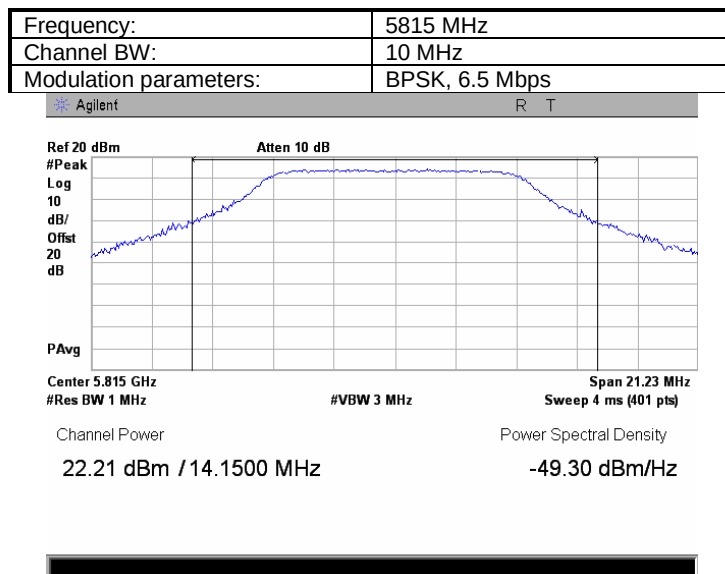


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.67 The 26 dB emission bandwidth

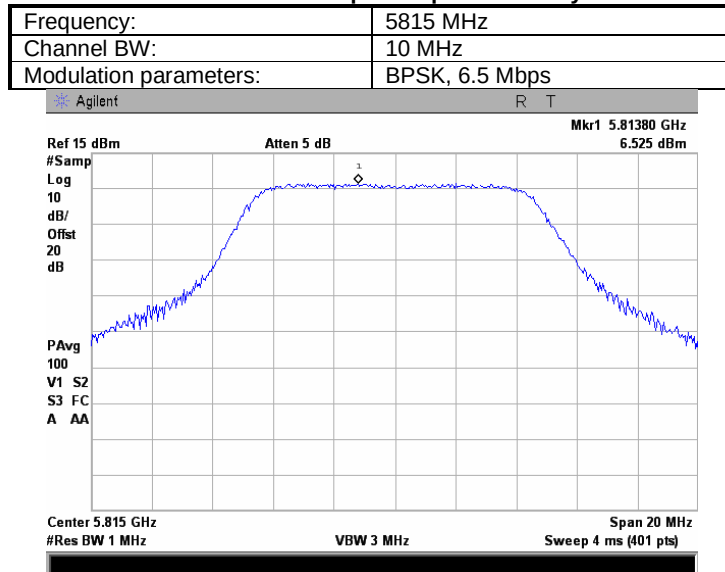


Plot 7.1.68 Peak output power

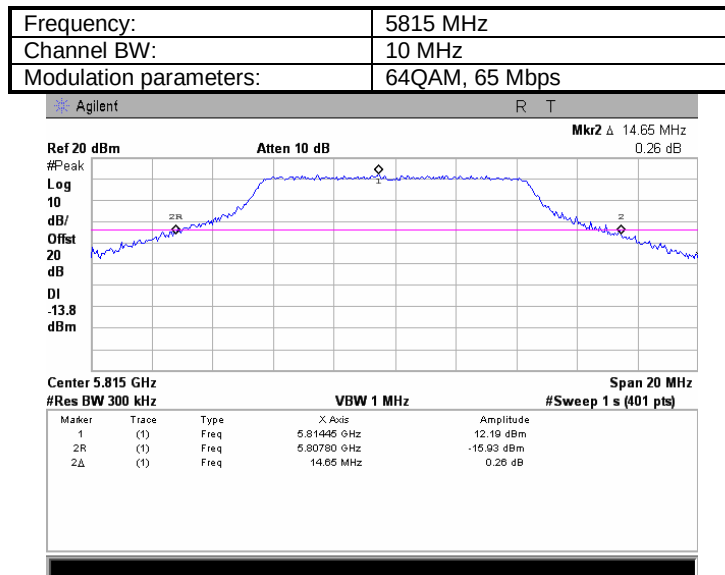


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.69 Peak spectral power density

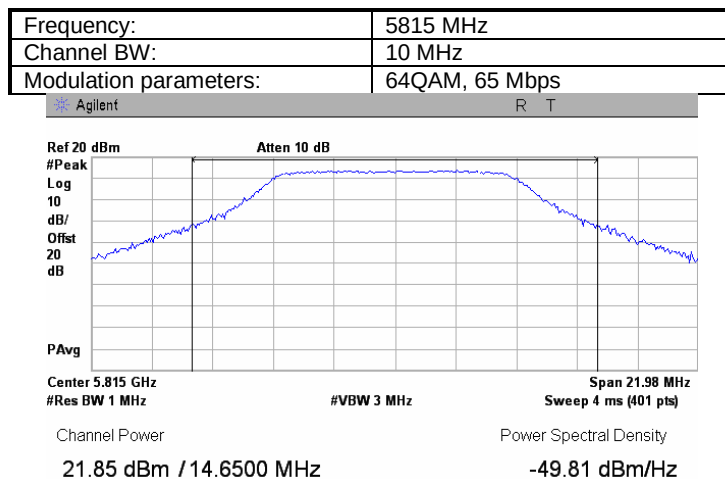


Plot 7.1.70 The 26 dB emission bandwidth

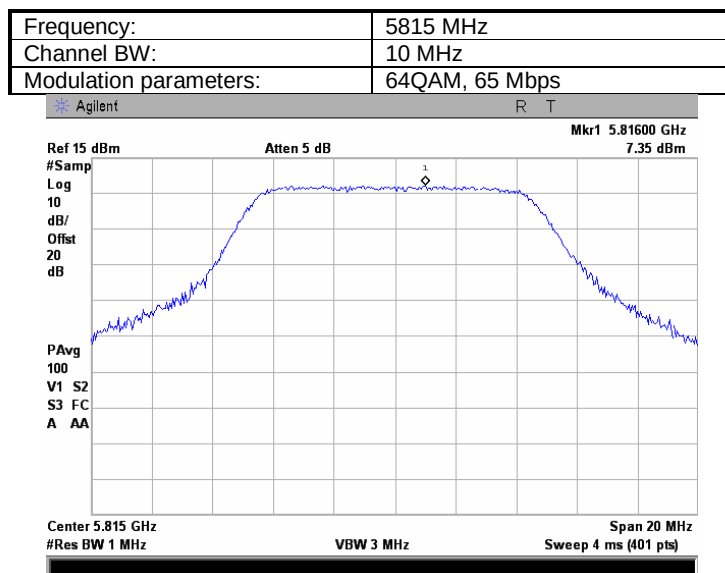


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.71 Peak output power

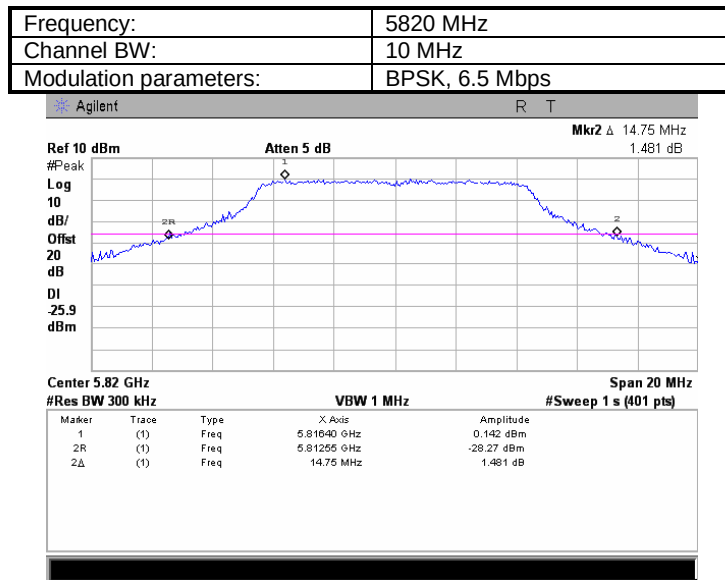


Plot 7.1.72 Peak spectral power density

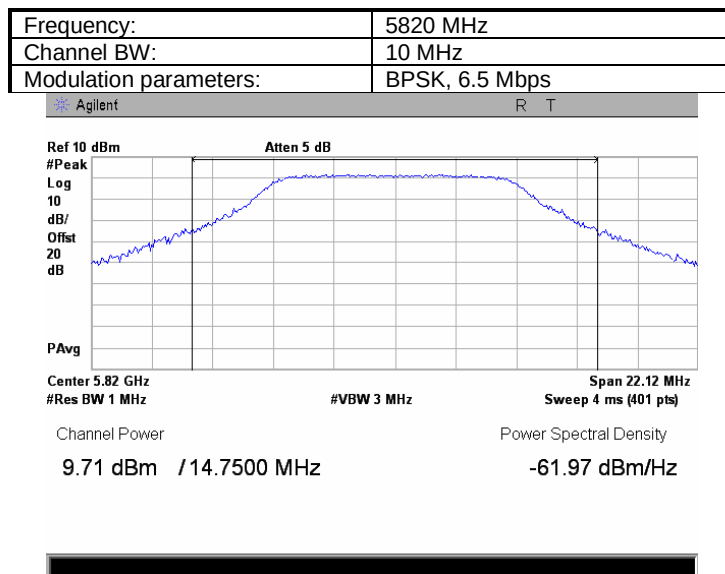


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict: PASS	
Date:			
Temperature: 24 °C		Air Pressure: 1012 hPa	
		Relative Humidity: 51 %	
		Power Supply: 120 VAC	
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.73 The 26 dB emission bandwidth

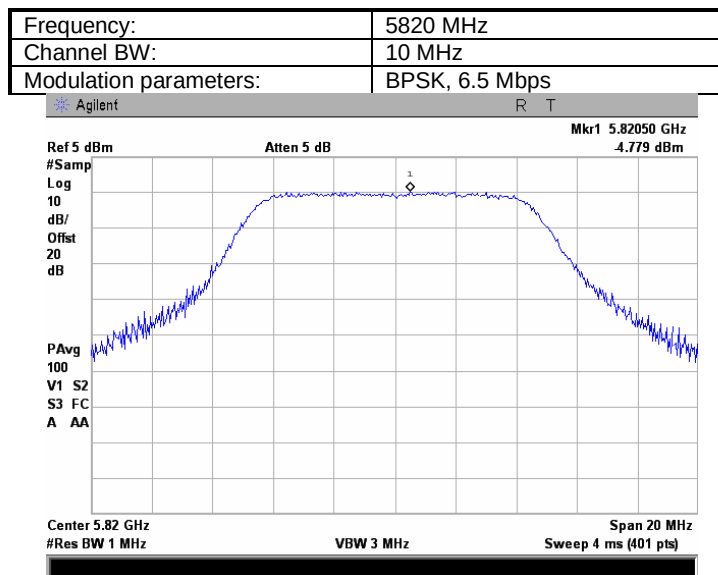


Plot 7.1.74 Peak output power

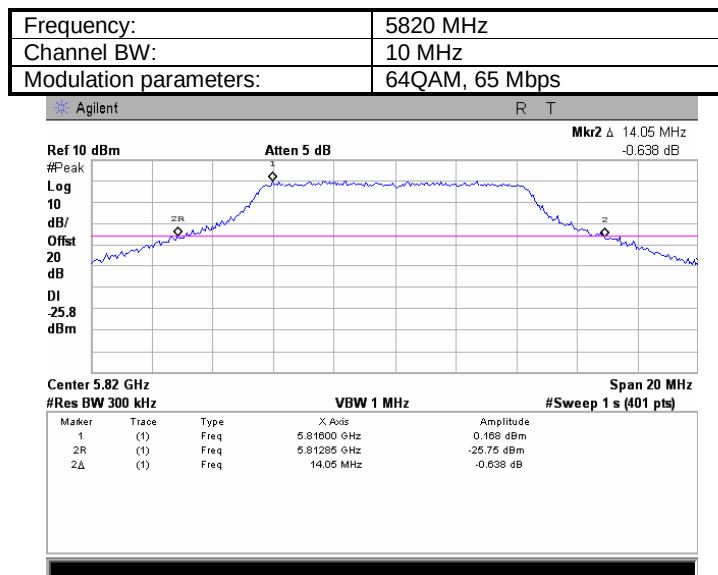


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.75 Peak spectral power density

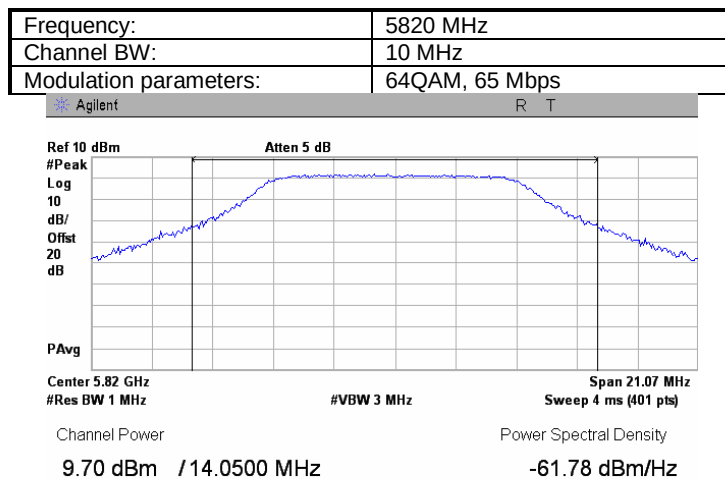


Plot 7.1.76 The 26 dB emission bandwidth

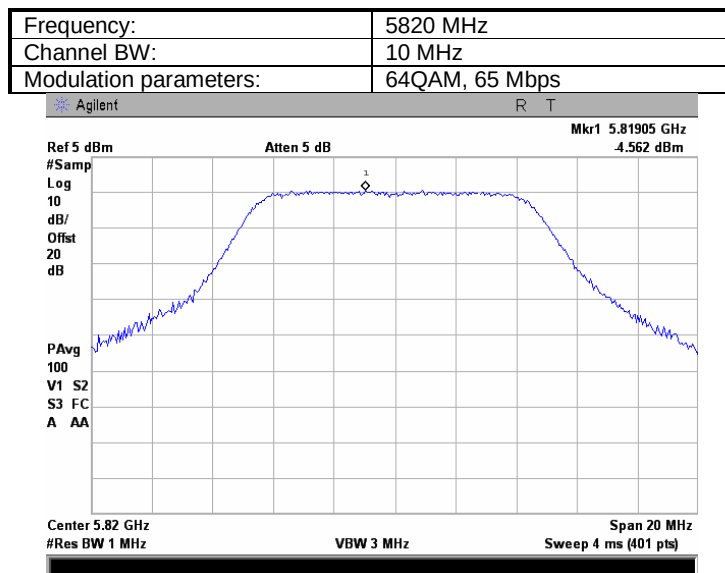


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.77 Peak output power

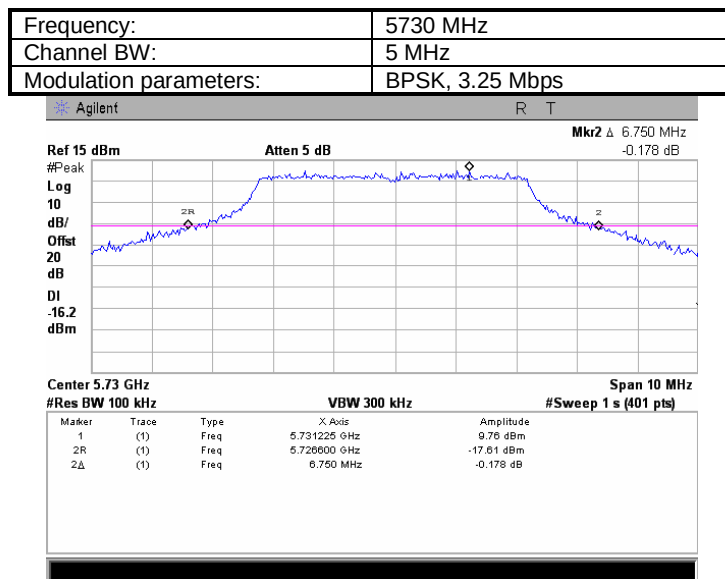


Plot 7.1.78 Peak spectral power density

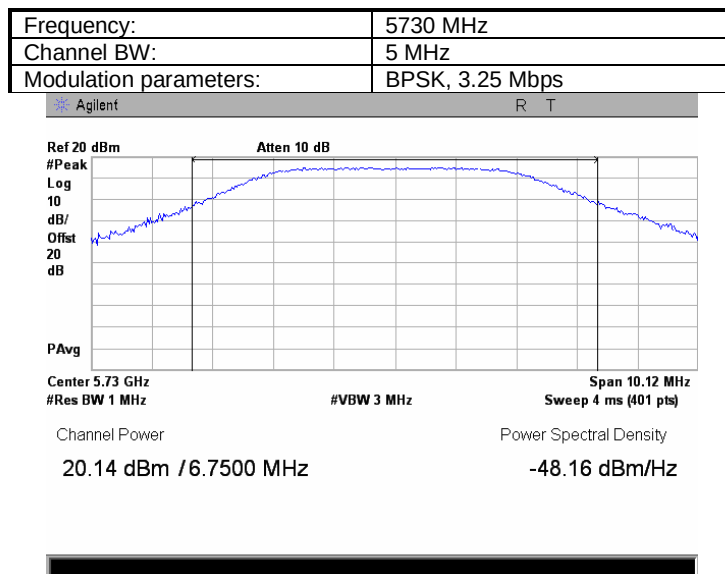


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.79 The 26 dB emission bandwidth

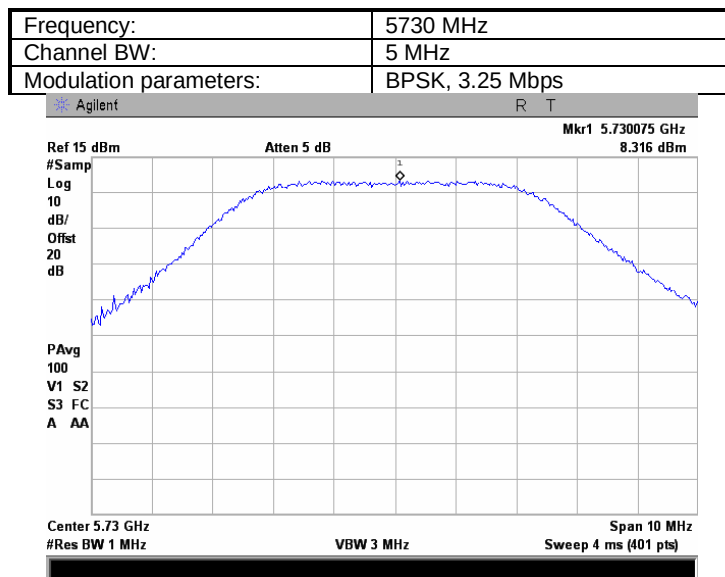


Plot 7.1.80 Peak output power

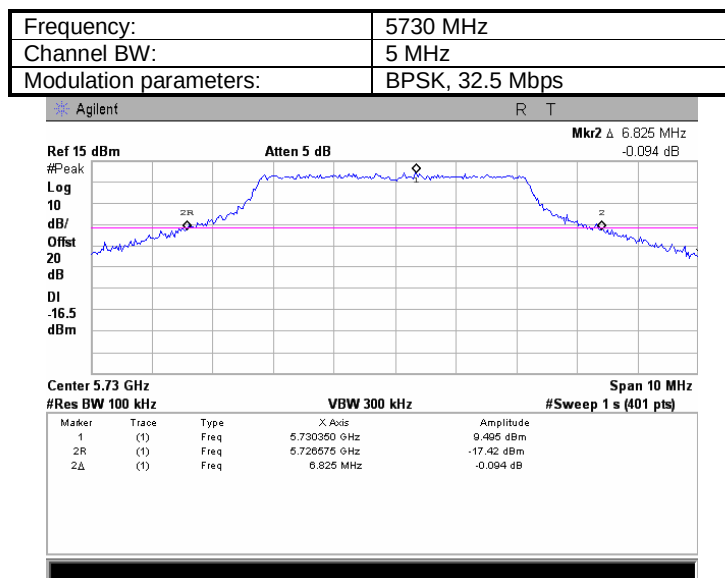


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.81 Peak spectral power density

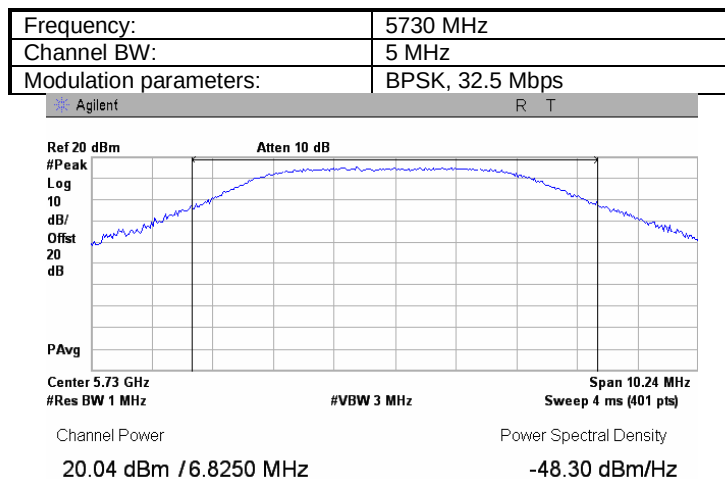


Plot 7.1.82 The 26 dB emission bandwidth

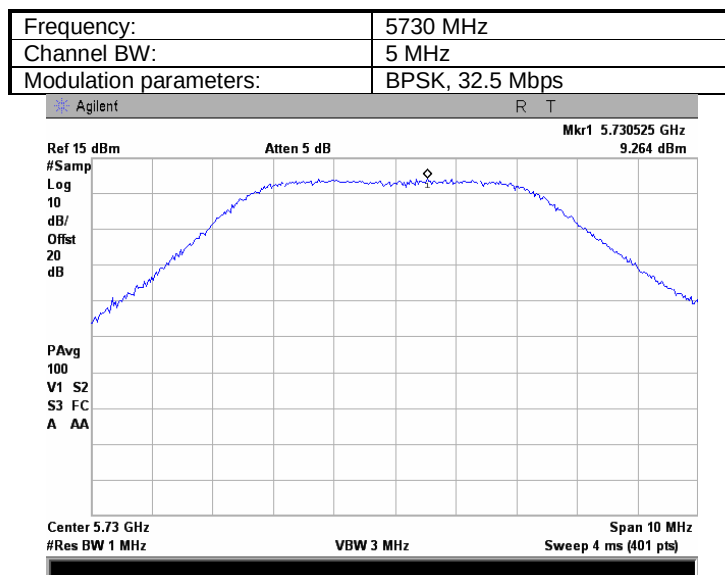


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.83 Peak output power

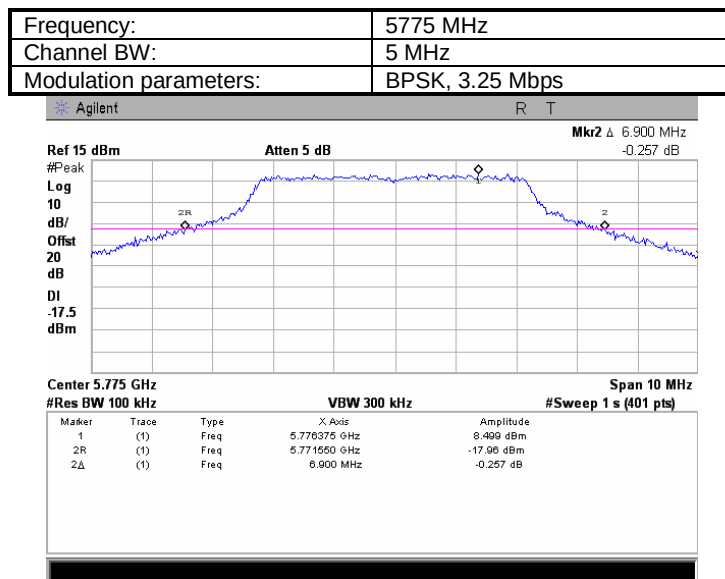


Plot 7.1.84 Peak spectral power density

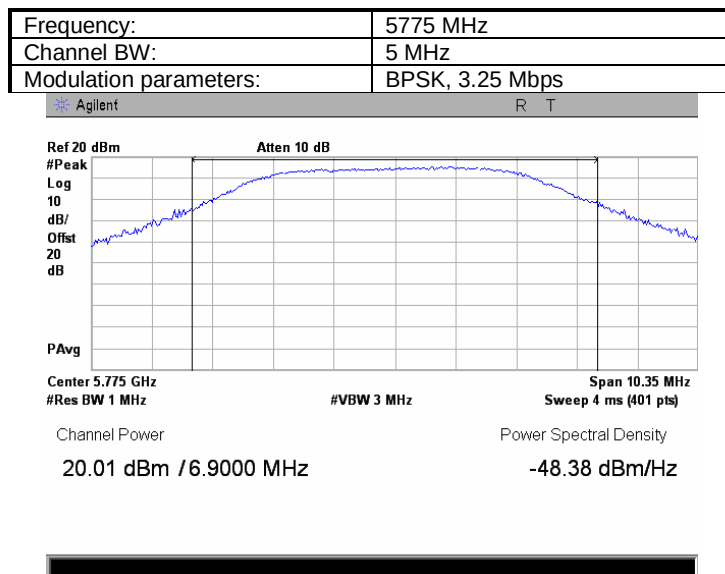


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.85 The 26 dB emission bandwidth

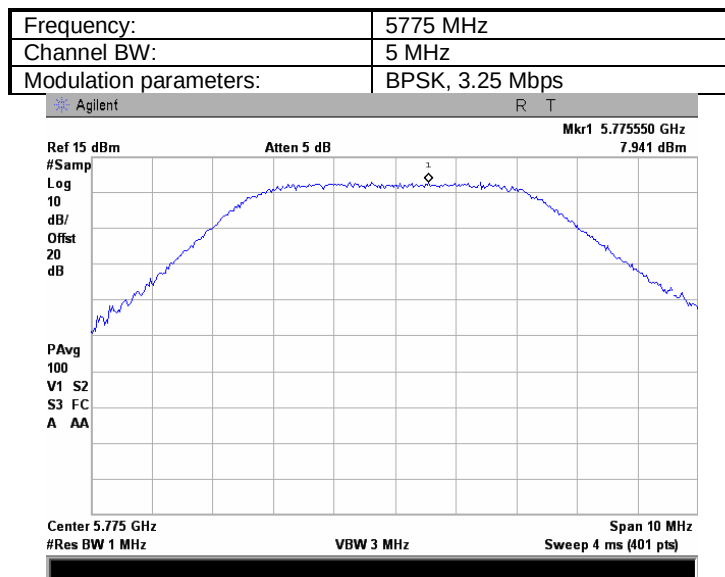


Plot 7.1.86 Peak output power

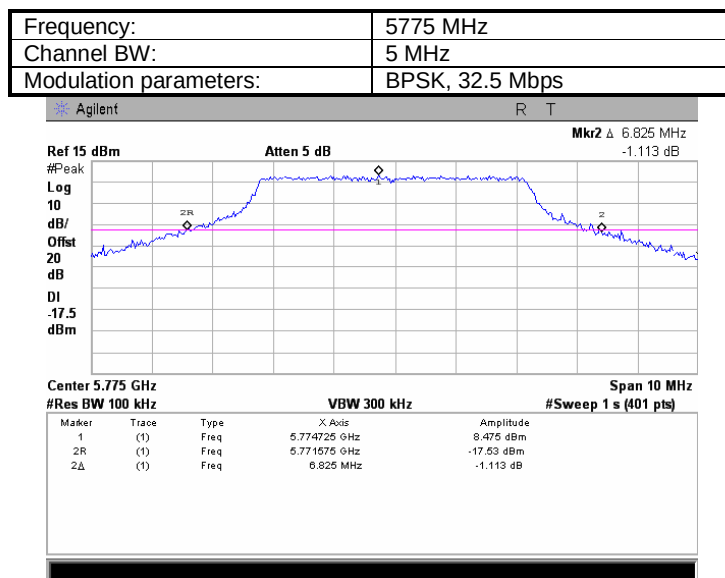


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.87 Peak spectral power density

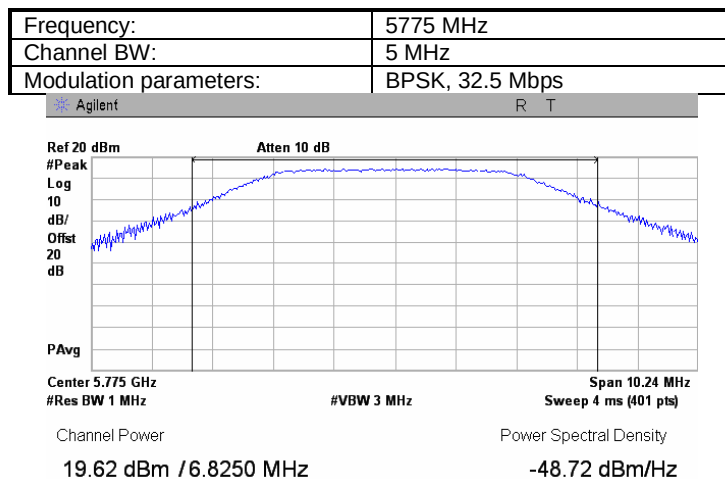


Plot 7.1.88 The 26 dB emission bandwidth

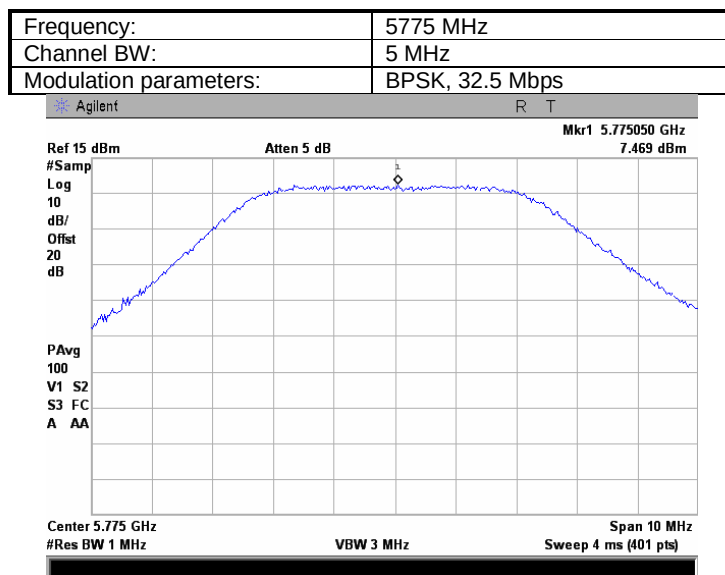


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.89 Peak output power

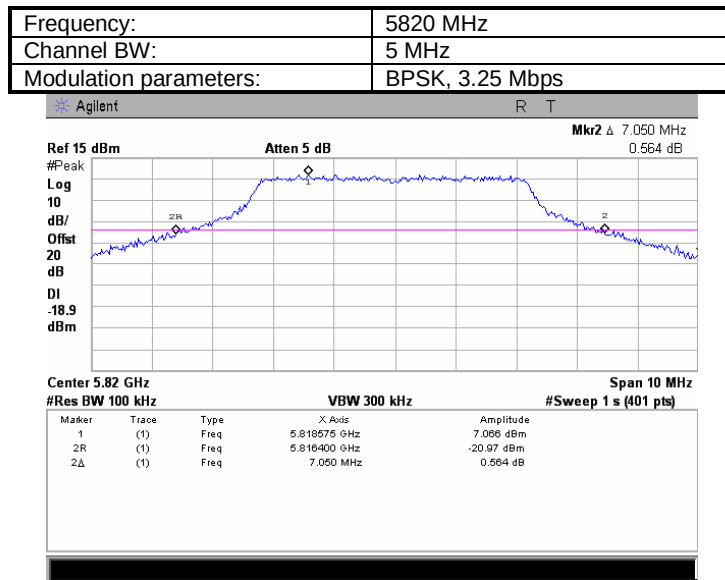


Plot 7.1.90 Peak spectral power density

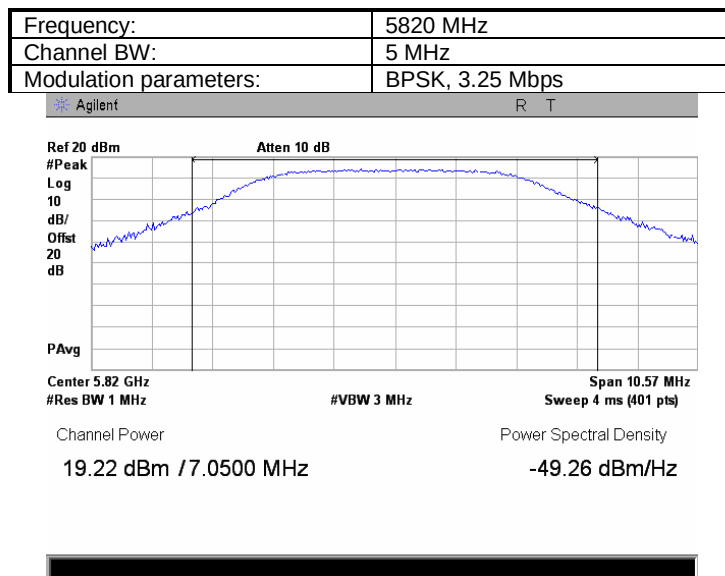


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.91 The 26 dB emission bandwidth

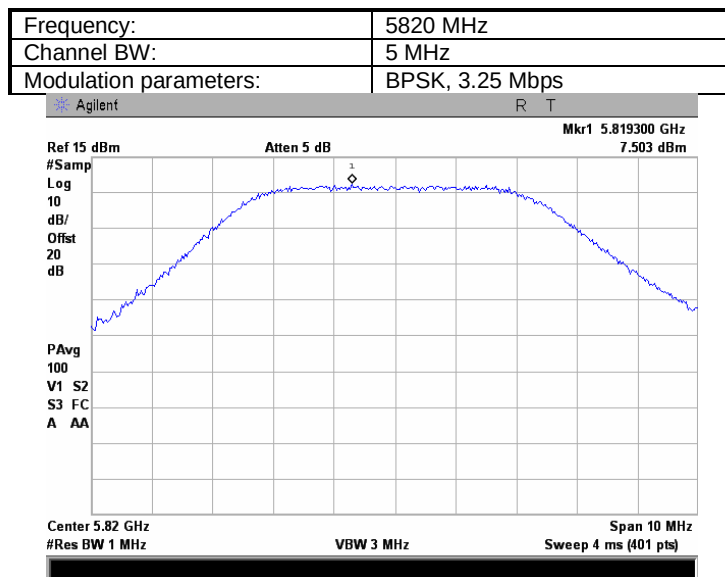


Plot 7.1.92 Peak output power

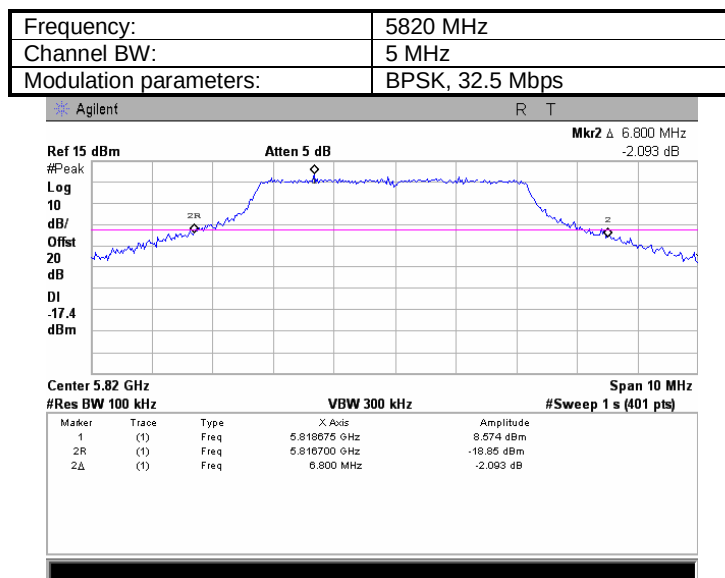


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict: PASS	
Date:			
Temperature: 24 °C		Air Pressure: 1012 hPa	
		Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.93 Peak spectral power density

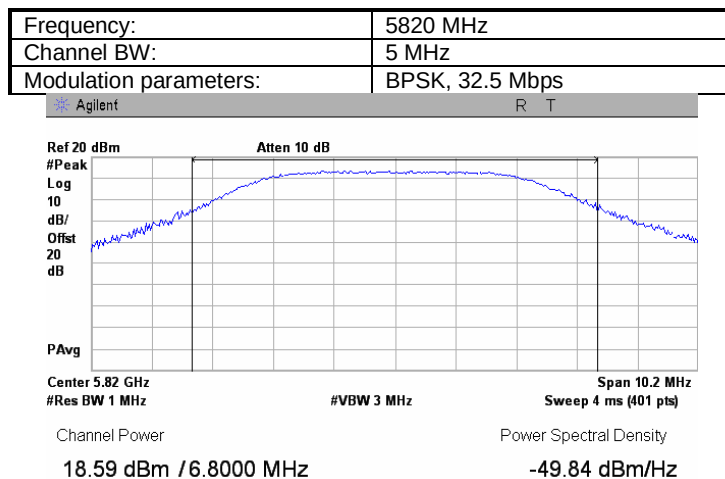


Plot 7.1.94 The 26 dB emission bandwidth

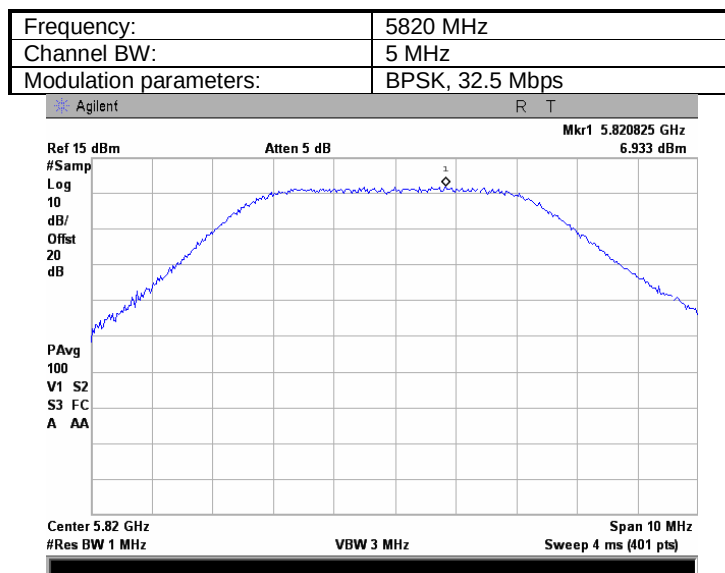


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 6dBi antenna assembly gain			

Plot 7.1.95 Peak output power



Plot 7.1.96 Peak spectral power density



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.10 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	26 dB Bandwidth	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5745.0	47.550	27	BPSK	2.12	5.12	30.00	-24.88	Pass
5745.0	47.250	270	64QAM	1.83	4.83	30.00	-25.17	Pass
Mid channel								
5775.0	47.100	27	BPSK	21.44	24.44	30.00	-5.56	Pass
5775.0	46.800	270	64QAM	21.25	24.25	30.00	-5.75	Pass
High channel Band Edge								
5805.0	46.950	27	BPSK	1.02	4.02	30.00	-25.98	Pass
5805.0	46.800	270	64QAM	1.18	4.18	30.00	-25.82	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.11 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5735	23.925	13	BPSK	-2.78	0.22	30.00	-29.78	Pass
5735	23.700	130	64QAM	-2.09	0.91	30.00	-29.09	Pass
Low channel In-Band								
5755	23.775	13	BPSK	23.22	26.22	30.00	-3.78	Pass
5755	24.000	130	64QAM	23.34	26.34	30.00	-3.66	Pass
Mid channel								
5775	23.700	13	BPSK	23.03	26.03	30.00	-3.97	Pass
5775	23.400	130	64QAM	23.25	26.25	30.00	-3.75	Pass
High channel In-Band								
5795	24.300	13	BPSK	23.12	26.12	30.00	-3.88	Pass
5795	23.700	130	64QAM	23.37	26.37	30.00	-3.63	Pass
High channel Band Edge								
5815	23.100	13	BPSK	-4.08	-1.08	30.00	-31.08	Pass
5815	23.100	130	64QAM	-3.37	-0.37	30.00	-30.37	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.12 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5735	14.400	6.5	BPSK	15.94	18.94	28.08	-9.14	Pass
5735	13.950	65	64QAM	15.89	18.89	27.95	-9.06	Pass
Low channel In-Band								
5740	14.900	6.5	BPSK	22.68	25.68	28.23	-2.55	Pass
5740	14.050	65	64QAM	23.39	26.39	27.98	-1.59	Pass
Mid channel								
5775	14.600	6.5	BPSK	22.79	25.79	28.14	-2.35	Pass
5775	14.250	65	64QAM	22.72	25.72	28.04	-2.32	Pass
High channel In-Band								
5810	14.200	6.5	BPSK	22.24	25.24	28.02	-2.78	Pass
5810	14.200	65	64QAM	21.92	24.92	28.02	-3.10	Pass
High channel Band Edge								
5815	14.750	6.5	BPSK	14.57	17.57	28.19	-10.62	Pass
5815	14.300	65	64QAM	14.50	17.50	28.05	-10.55	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.13 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5730	7.225	3.25	BPSK	12.11	15.11	25.09	-9.98	Pass
5730	7.125	32.5	64QAM	12.22	15.22	25.03	-9.81	Pass
Low channel In-Band								
5735	7.375	3.25	BPSK	13.69	16.69	25.18	-8.49	Pass
5735	6.850	32.5	64QAM	14.23	17.23	24.86	-7.63	Pass
Mid channel								
5775	6.950	3.25	BPSK	14.12	17.12	24.92	-7.80	Pass
5775	7.000	32.5	64QAM	14.58	17.58	24.95	-7.37	Pass
High channel In-Band								
5815	6.800	3.25	BPSK	14.37	17.37	24.83	-7.46	Pass
5815	6.825	32.5	64QAM	13.86	16.86	24.84	-7.98	Pass
High channel Band Edge								
5820	6.900	3.25	BPSK	11.01	14.01	24.89	-10.88	Pass
5820	6.750	32.5	64QAM	10.55	13.55	24.79	-11.24	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787			
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Full description is given in Appendix A.

Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS	
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.14 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5745.0	27	BPSK	-18.01	-15.01	17.0	-32.01	Pass
5745.0	270	64QAM	-18.34	-15.34	17.0	-32.34	Pass
Mid channel							
5775.0	27	BPSK	1.24	4.24	17.0	-12.76	Pass
5775.0	270	64QAM	1.30	4.30	17.0	-12.70	Pass
High channel Band Edge							
5805.0	27	BPSK	-19.22	-16.22	17.0	-33.22	Pass
5805.0	270	64QAM	-19.27	-16.27	17.0	-33.27	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.15 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5735	13	BPSK	-20.07	-17.07	17.0	-34.07	Pass
5735	130	64QAM	-20.27	-17.27	17.0	-34.27	Pass
Low channel In-Band							
5755	13	BPSK	5.90	8.90	17.0	-8.10	Pass
5755	130	64QAM	6.14	9.14	17.0	-7.86	Pass
Mid channel							
5775	13	BPSK	5.25	8.25	17.0	-8.75	Pass
5775	130	64QAM	5.80	8.80	17.0	-8.20	Pass
High channel In-Band							
5795	13	BPSK	5.98	8.98	17.0	-8.02	Pass
5795	130	64QAM	5.92	8.92	17.0	-8.08	Pass
High channel Band Edge							
5815	13	BPSK	-21.72	-18.72	17.0	-35.72	Pass
5815	130	64QAM	-20.91	-17.91	17.0	-34.91	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.16 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 22.5 dBi
 EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5735	6.5	BPSK	0.55	3.55	17.0	-13.45	Pass
5735	65	64QAM	1.31	4.31	17.0	-12.69	Pass
Low channel In-Band							
5740	6.5	BPSK	7.91	10.91	17.0	-6.09	Pass
5740	65	64QAM	8.49	11.49	17.0	-5.51	Pass
Mid channel							
5775	6.5	BPSK	7.27	10.27	17.0	-6.73	Pass
5775	65	64QAM	7.60	10.60	17.0	-6.40	Pass
High channel In-Band							
5810	6.5	BPSK	7.82	10.82	17.0	-6.18	Pass
5810	65	64QAM	7.49	10.49	17.0	-6.51	Pass
High channel Band Edge							
5815	6.5	BPSK	-0.07	2.93	17.0	-14.07	Pass
5815	65	64QAM	0.02	3.02	17.0	-13.98	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Table 7.1.17 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
MODULATING SIGNAL: OFDM
DETECTOR USED: Sample
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
ANTENNA ASSEMBLY GAIN: 22.5 dBi
EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5730	3.25	BPSK	0.00	3.00	17.0	-14.00	Pass
5730	32.5	64QAM	-0.02	2.98	17.0	-14.02	Pass
Low channel In-Band							
5735	3.25	BPSK	3.05	6.05	17.0	-10.95	Pass
5735	32.5	64QAM	3.30	6.30	17.0	-10.70	Pass
Mid channel							
5775	3.25	BPSK	3.14	6.14	17.0	-10.86	Pass
5775	32.5	64QAM	2.88	5.88	17.0	-11.12	Pass
High channel In-Band							
5815	3.25	BPSK	2.67	5.67	17.0	-11.33	Pass
5815	32.5	64QAM	2.72	5.72	17.0	-11.28	Pass
High channel Band Edge							
5820	3.25	BPSK	-0.75	2.25	17.0	-14.75	Pass
5820	32.5	64QAM	-0.20	2.80	17.0	-14.20	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

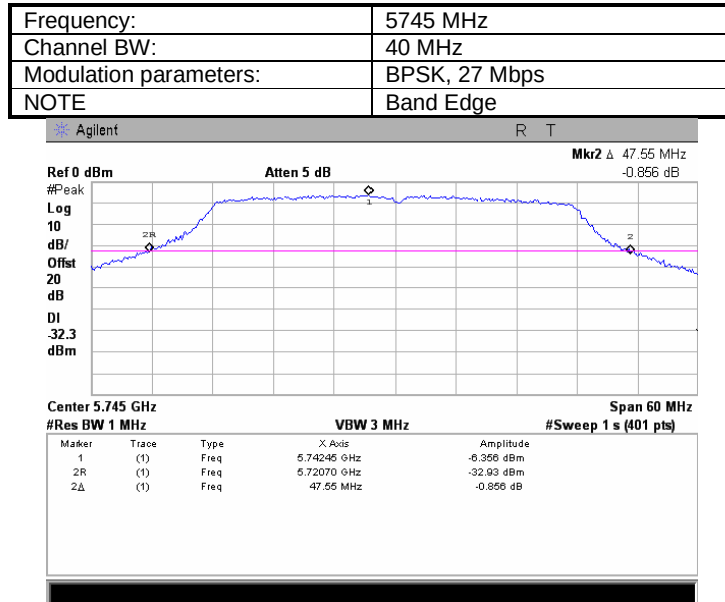
Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787			
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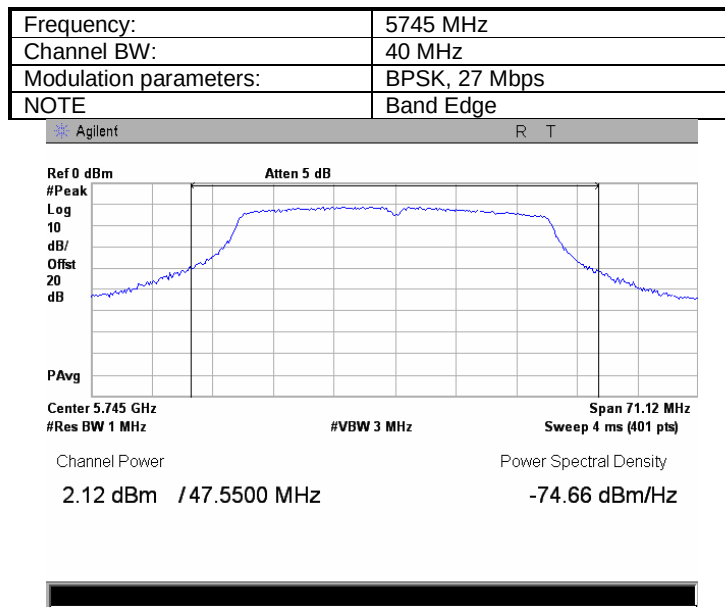
Full description is given in Appendix A.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict:	
Date:		PASS	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.97 The 26 dB emission bandwidth

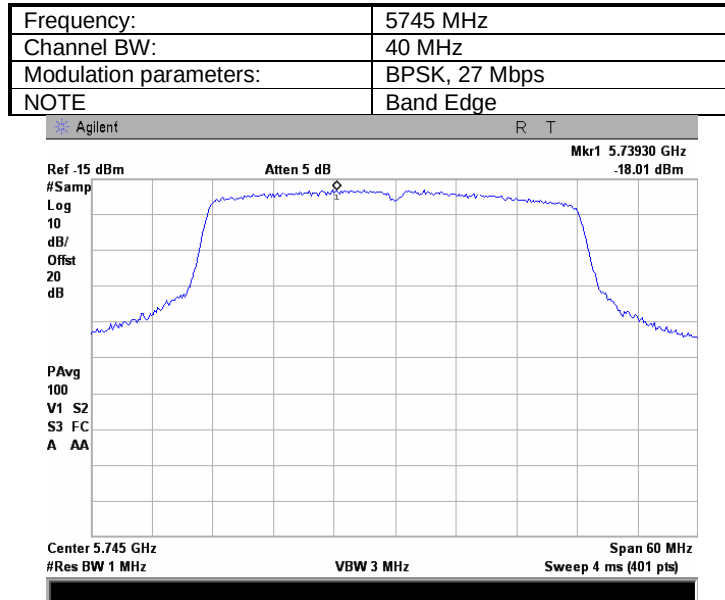


Plot 7.1.98 Peak output power

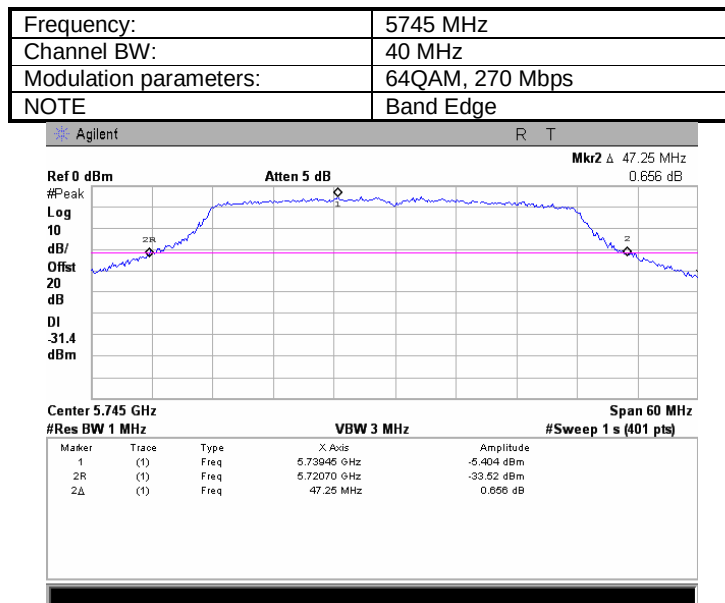


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.99 Peak spectral power density



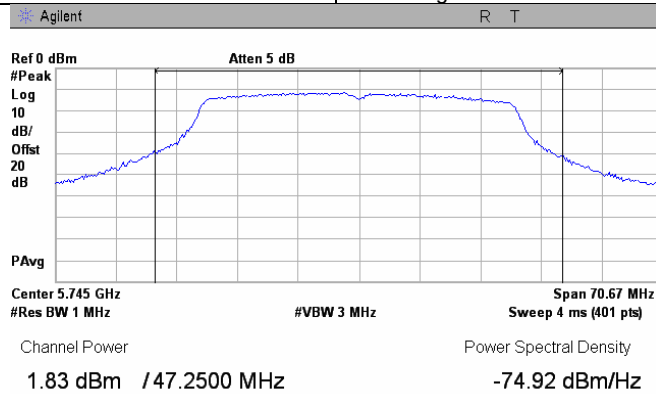
Plot 7.1.100 The 26 dB emission bandwidth



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

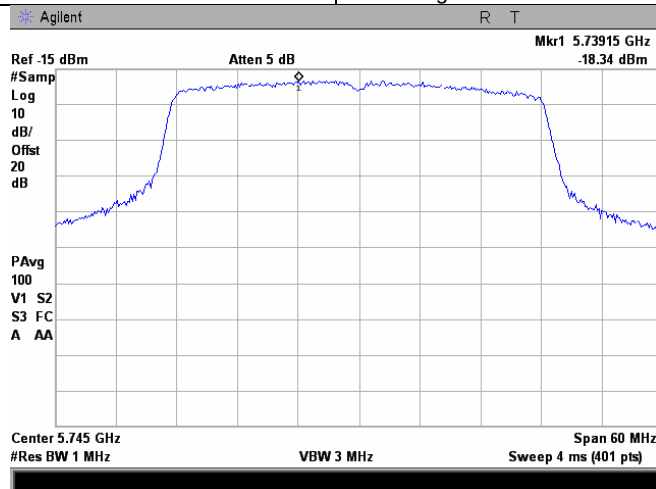
Plot 7.1.101 Peak output power

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



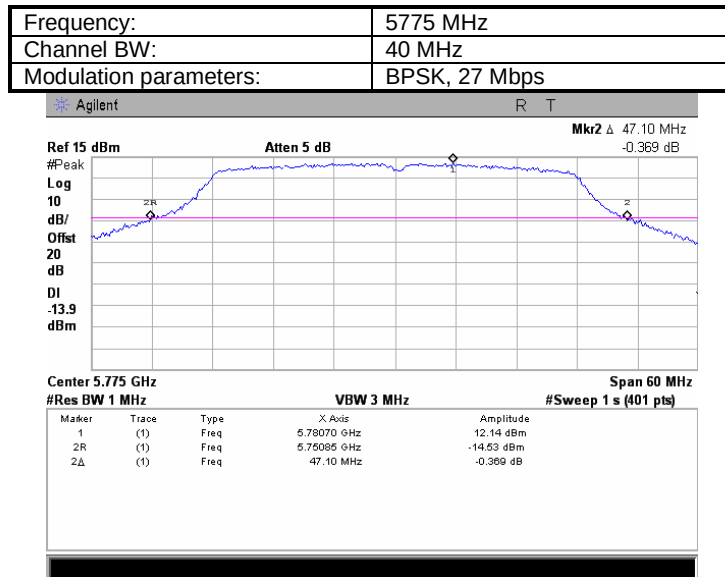
Plot 7.1.102 Peak spectral power density

Frequency:	5745 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

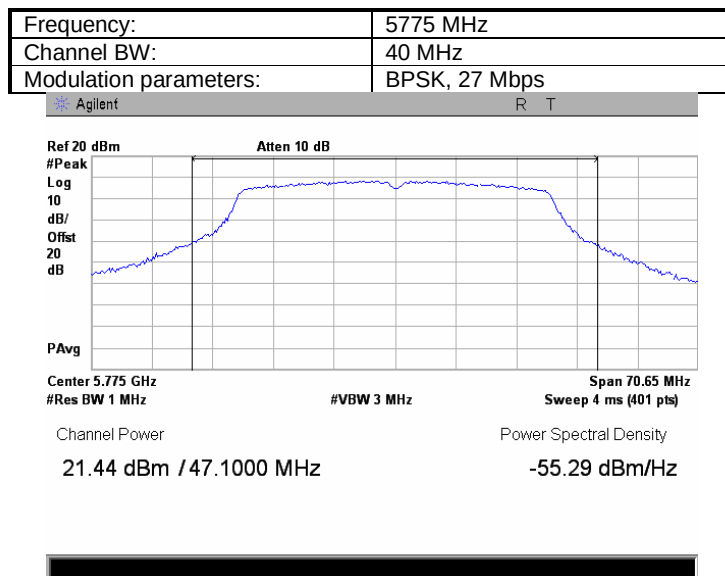


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.103 The 26 dB emission bandwidth

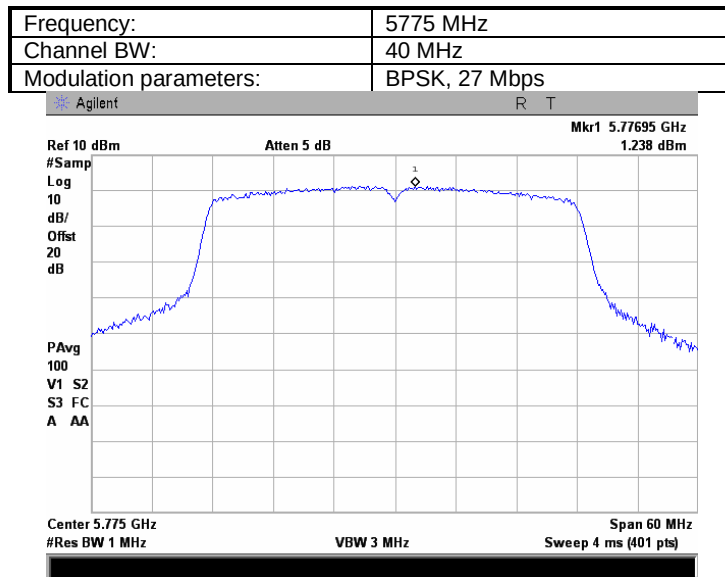


Plot 7.1.104 Peak output power

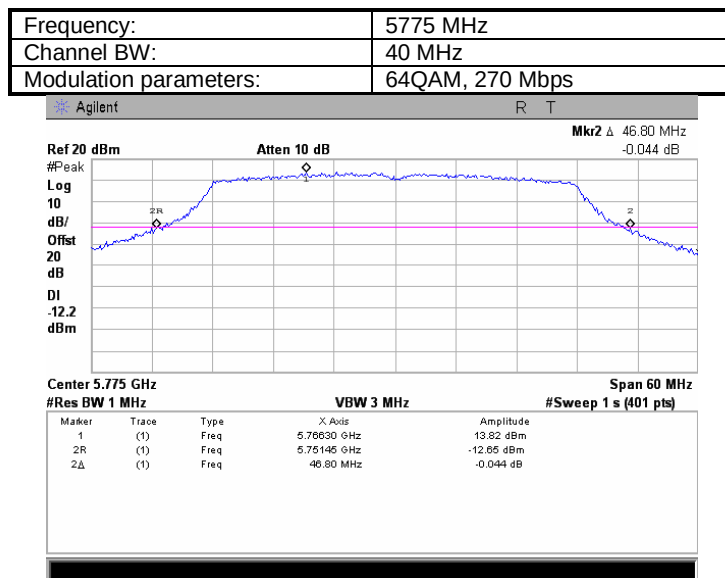


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.105 Peak spectral power density

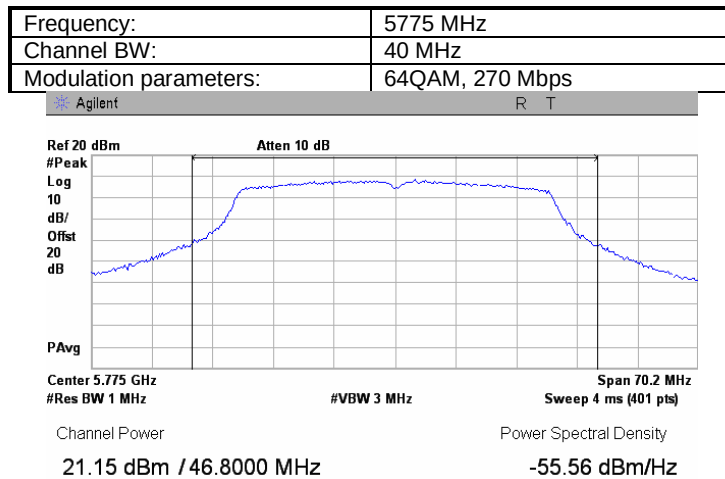


Plot 7.1.106 The 26 dB emission bandwidth

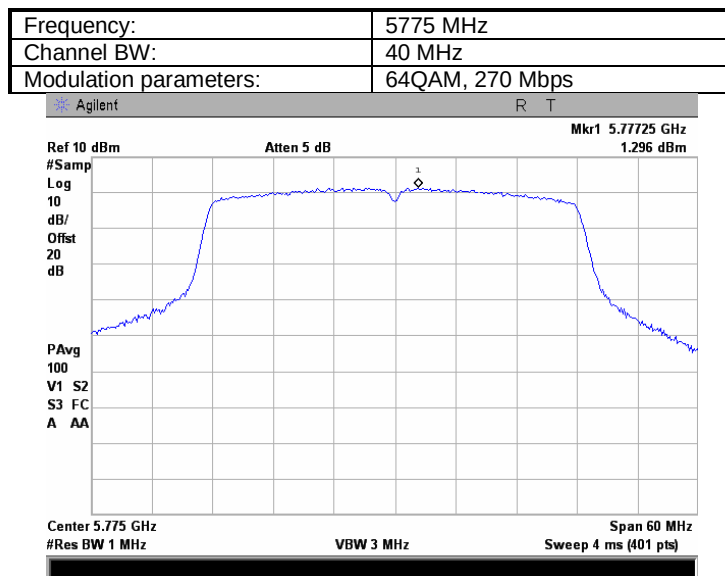


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.107 Peak output power

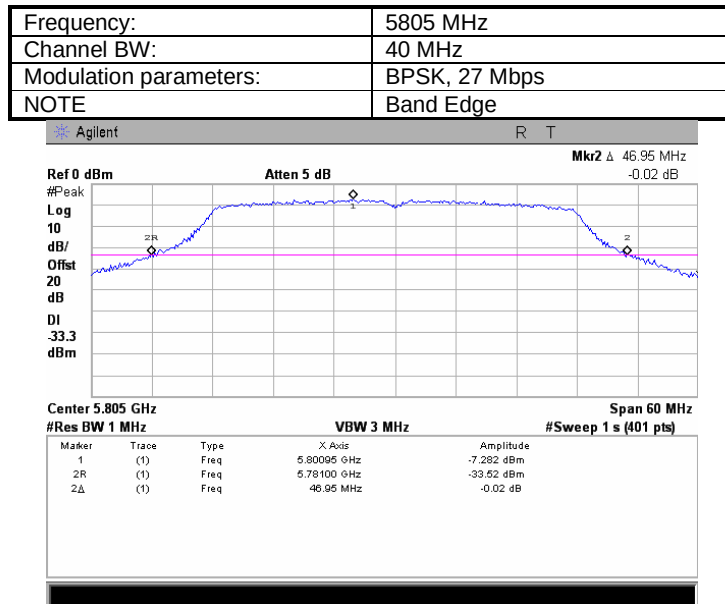


Plot 7.1.108 Peak spectral power density

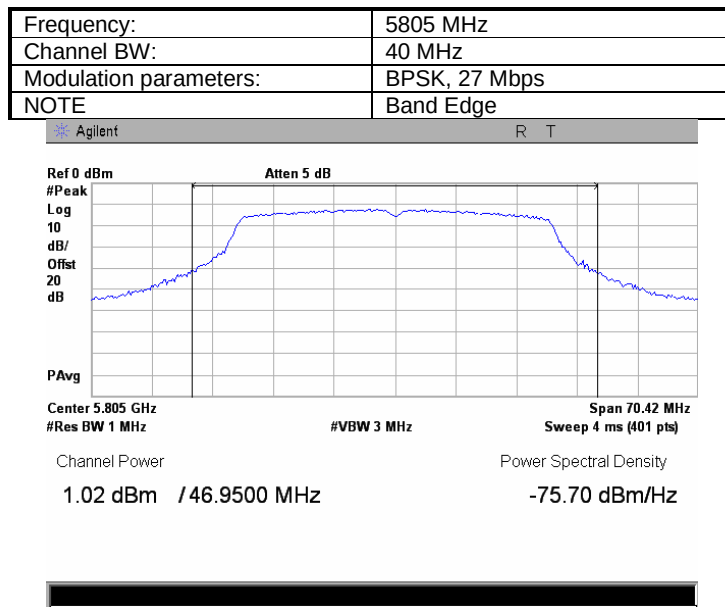


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.109 The 26 dB emission bandwidth



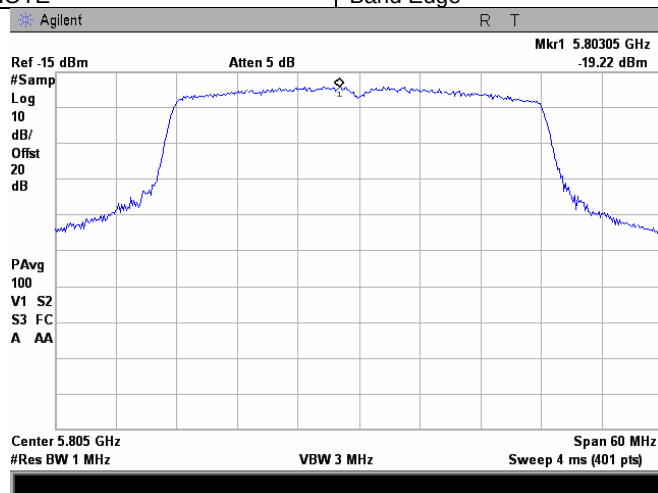
Plot 7.1.110 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

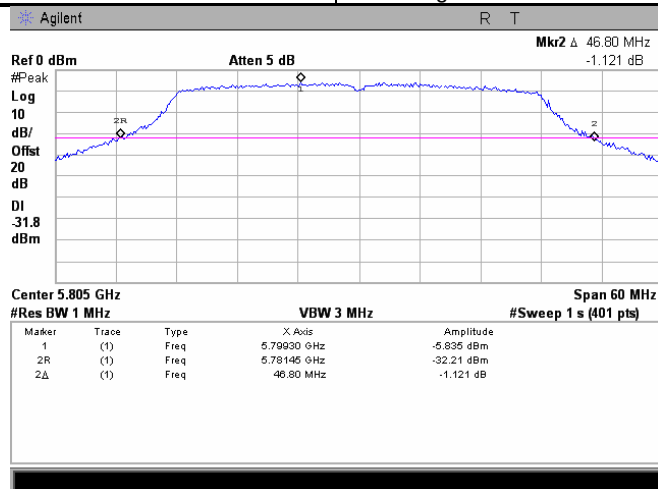
Plot 7.1.111 Peak spectral power density

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.112 The 26 dB emission bandwidth

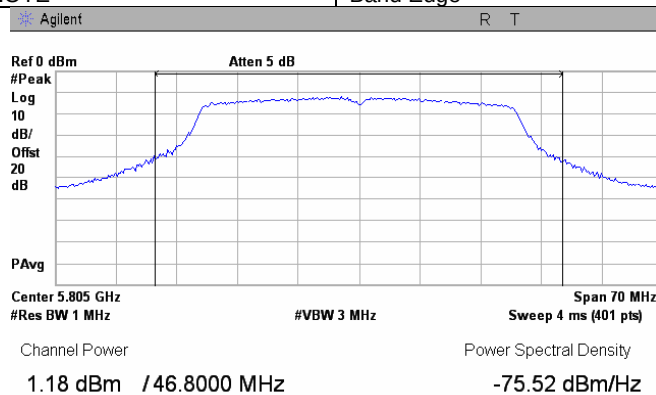
Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

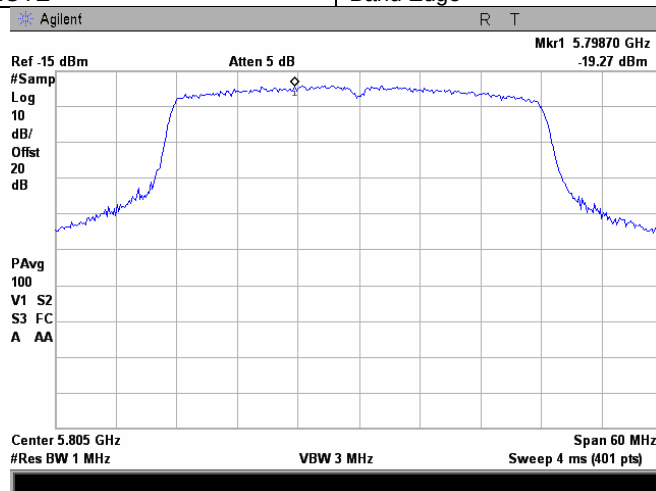
Plot 7.1.113 Peak output power

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



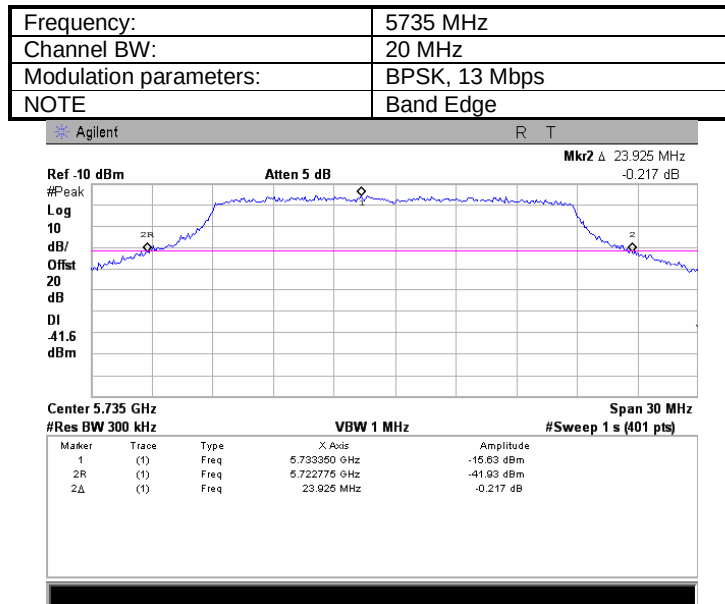
Plot 7.1.114 Peak spectral power density

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

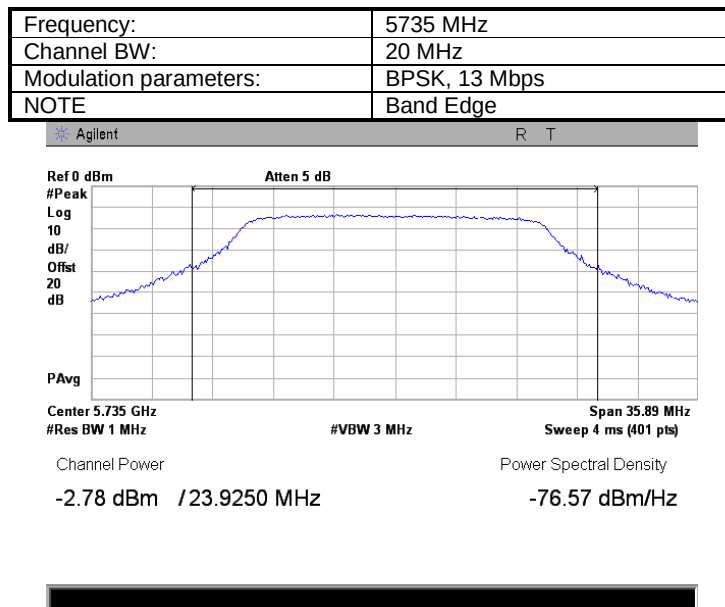


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.115 The 26 dB emission bandwidth



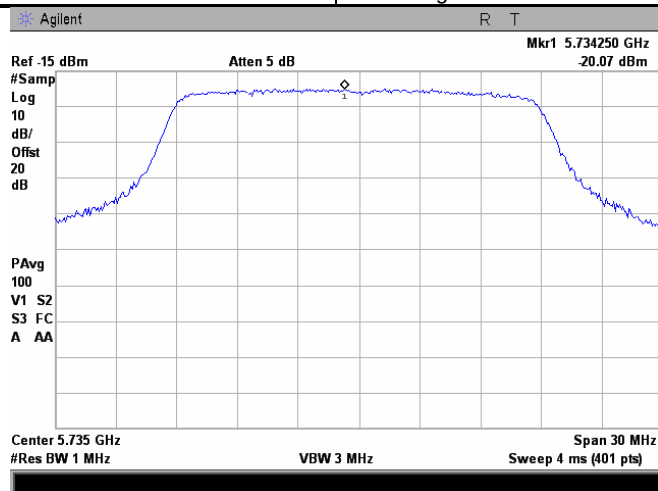
Plot 7.1.116 Peak output power



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

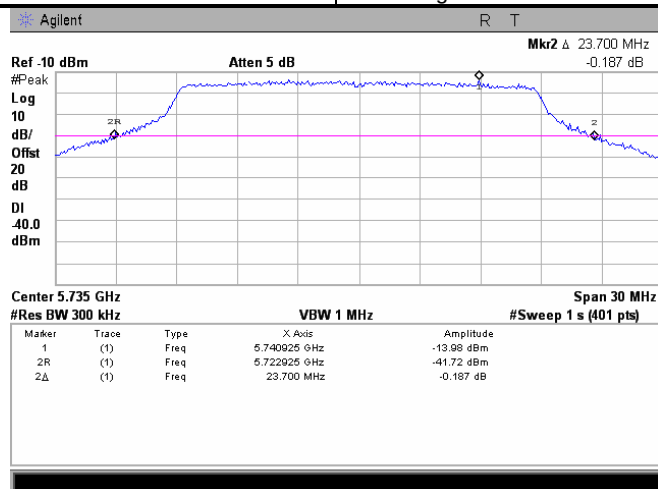
Plot 7.1.117 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Band Edge



Plot 7.1.118 The 26 dB emission bandwidth

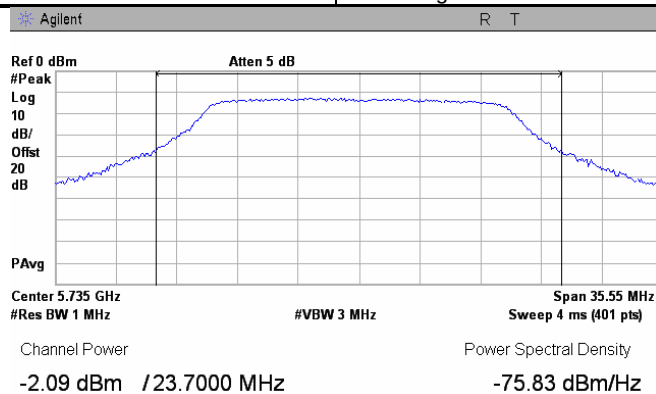
Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

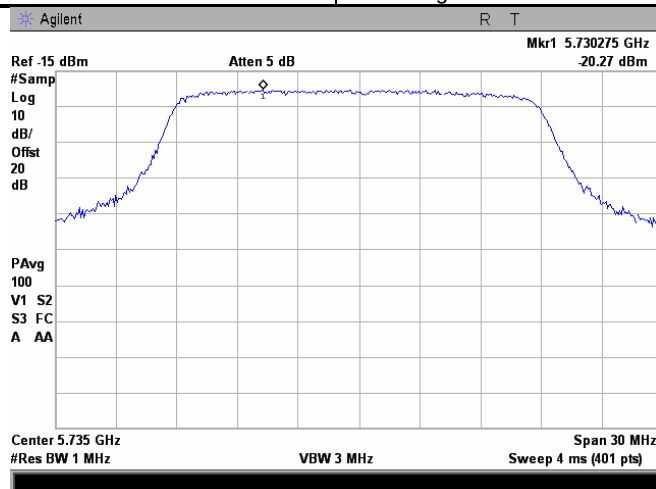
Plot 7.1.119 Peak output power

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



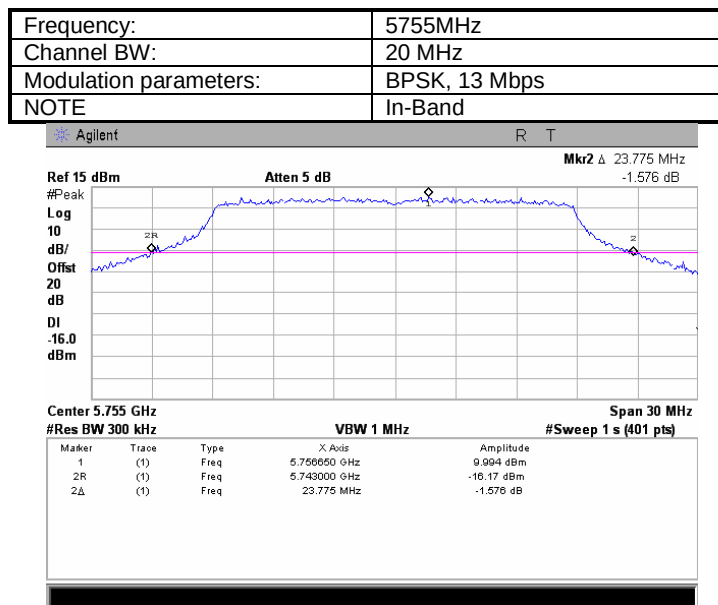
Plot 7.1.120 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

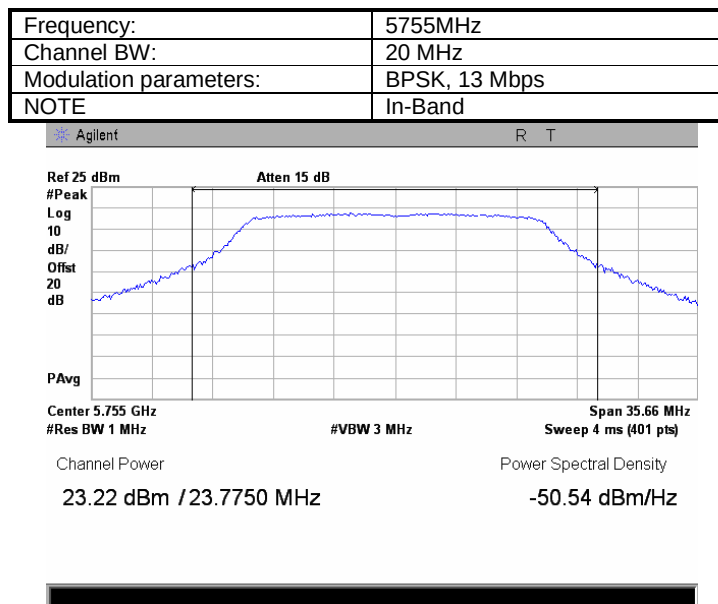


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.121 The 26 dB emission bandwidth



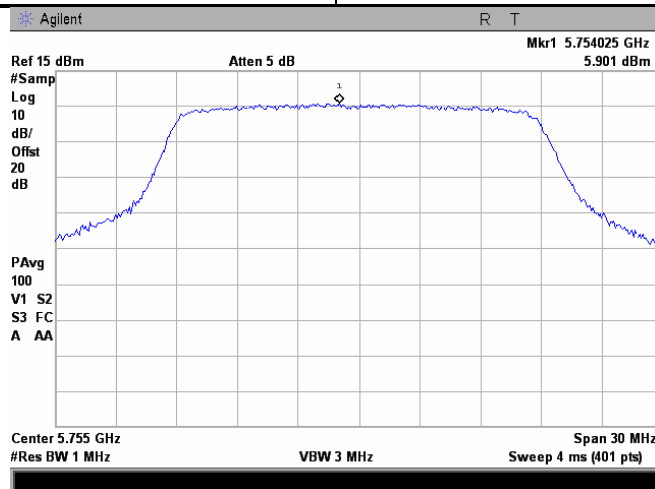
Plot 7.1.122 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

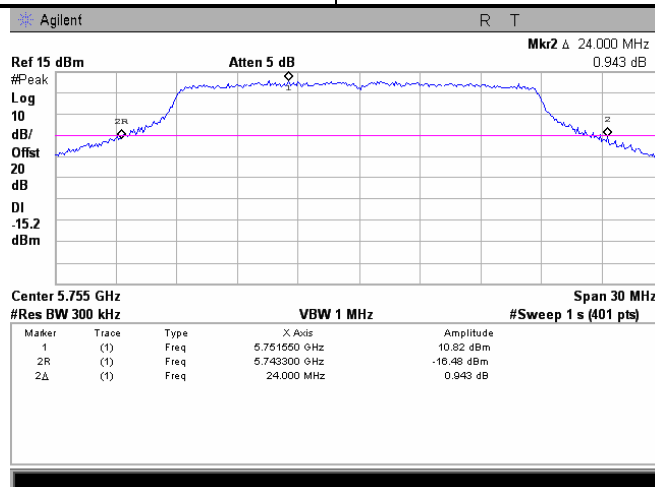
Plot 7.1.123 Peak spectral power density

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	In-Band



Plot 7.1.124 The 26 dB emission bandwidth

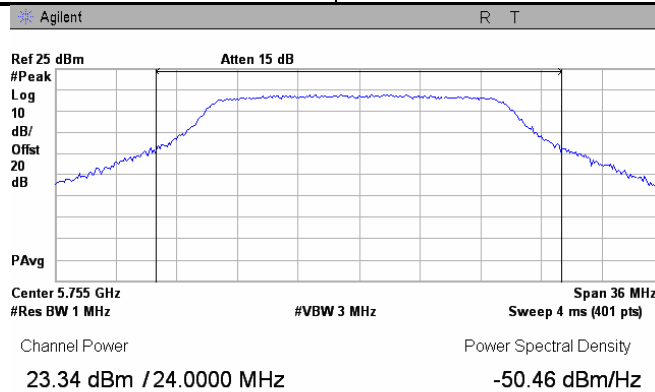
Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

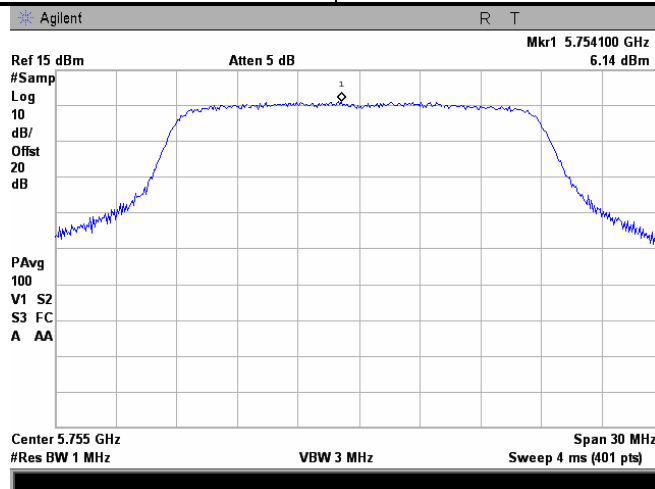
Plot 7.1.125 Peak output power

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



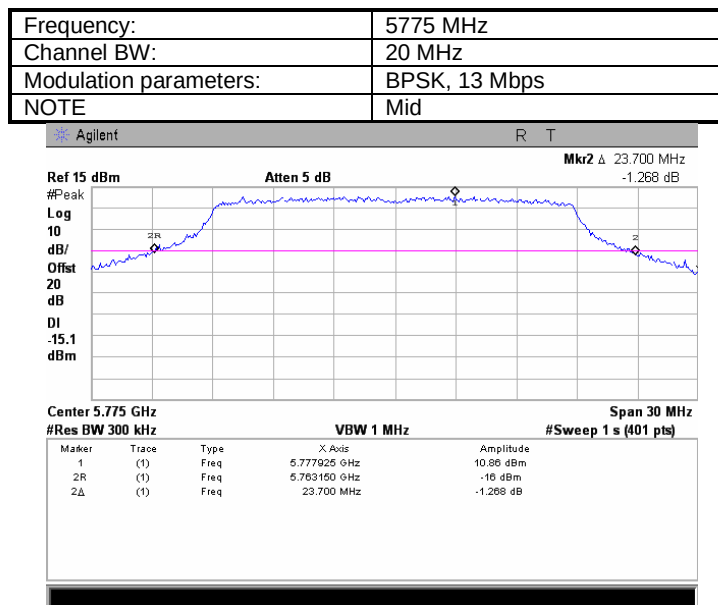
Plot 7.1.126 Peak spectral power density

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

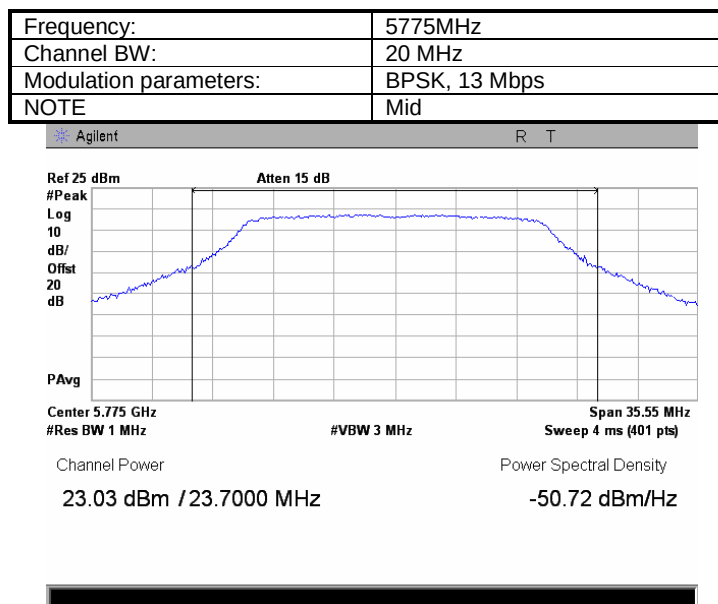


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.127 The 26 dB emission bandwidth



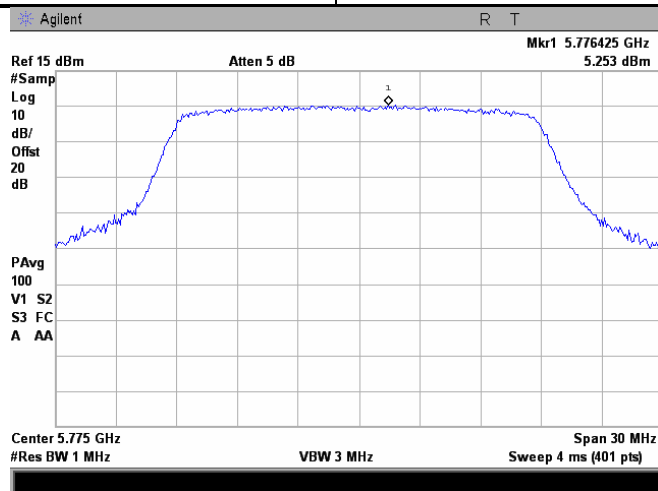
Plot 7.1.128 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict: PASS	
Date:			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

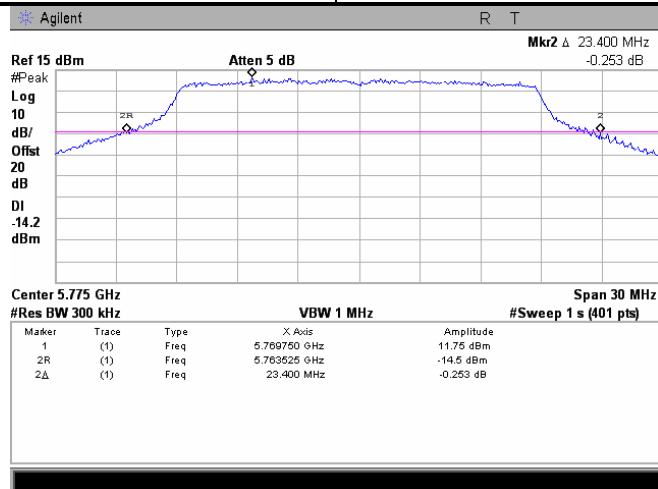
Plot 7.1.129 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Mid



Plot 7.1.130 The 26 dB emission bandwidth

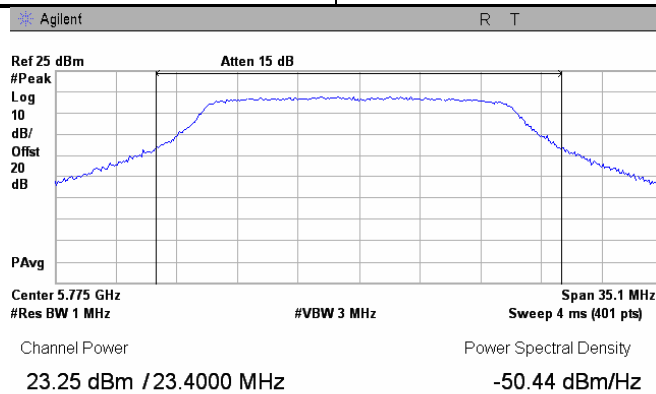
Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

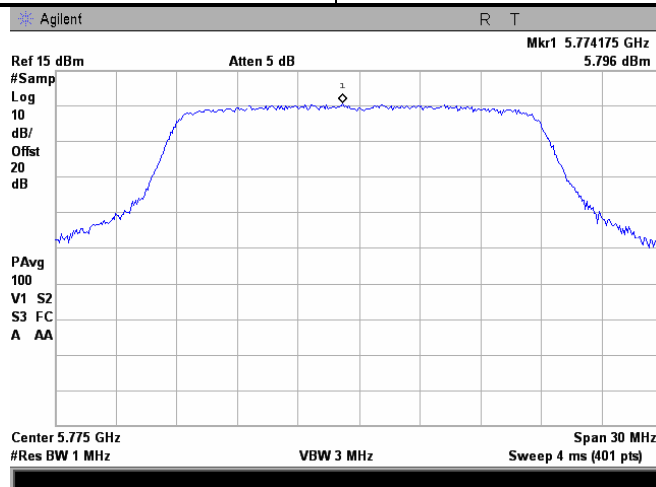
Plot 7.1.131 Peak output power

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid



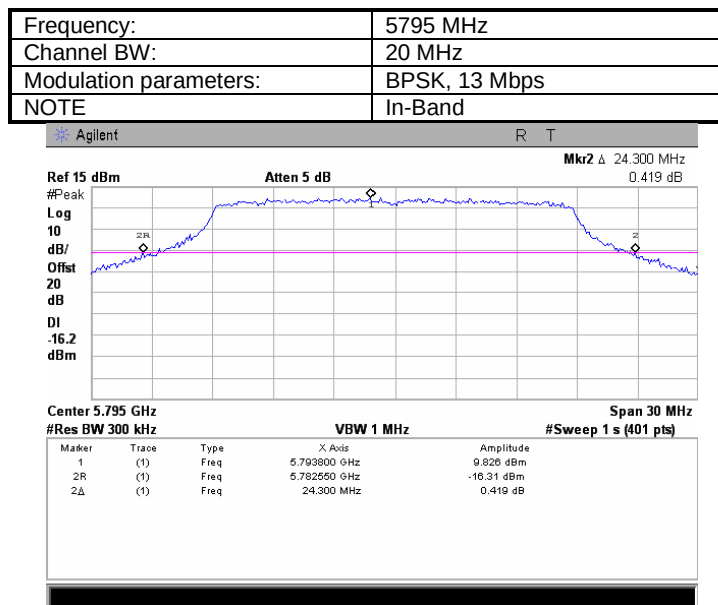
Plot 7.1.132 Peak spectral power density

Frequency:	5775MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Mid

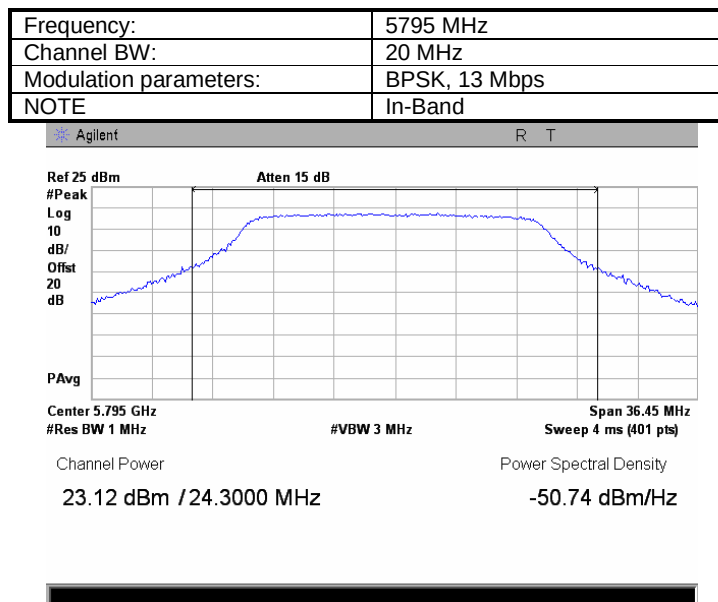


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.133 The 26 dB emission bandwidth



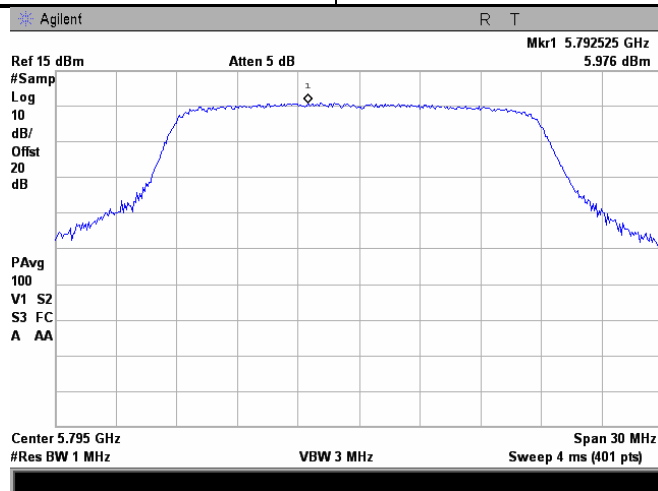
Plot 7.1.134 Peak output power



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

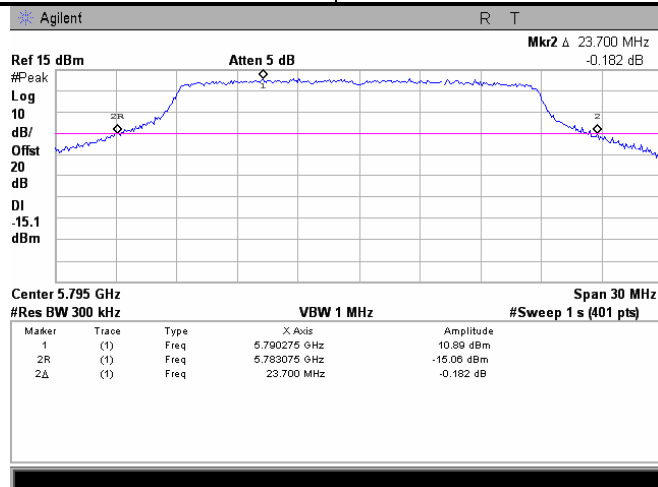
Plot 7.1.135 Peak spectral power density

Frequency:	5795 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	In-Band



Plot 7.1.136 The 26 dB emission bandwidth

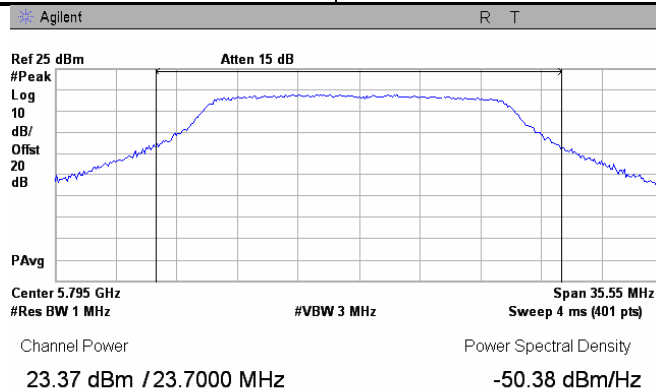
Frequency:	5795 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

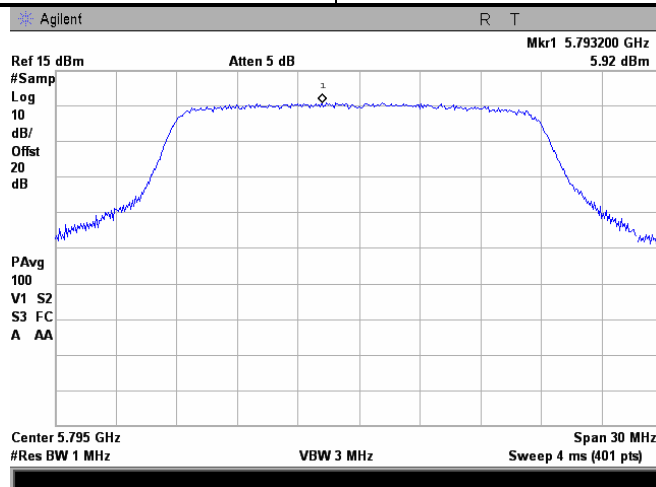
Plot 7.1.137 Peak output power

Frequency:	5795 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



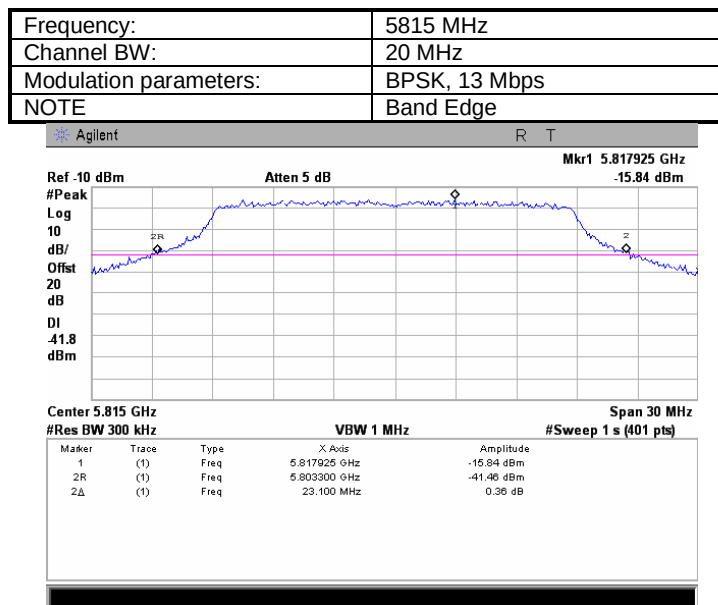
Plot 7.1.138 Peak spectral power density

Frequency:	5795 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

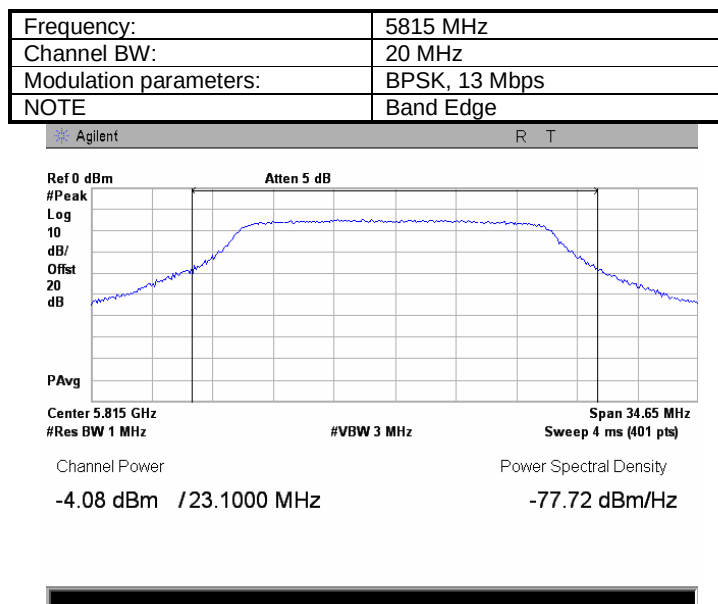


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.139 The 26 dB emission bandwidth



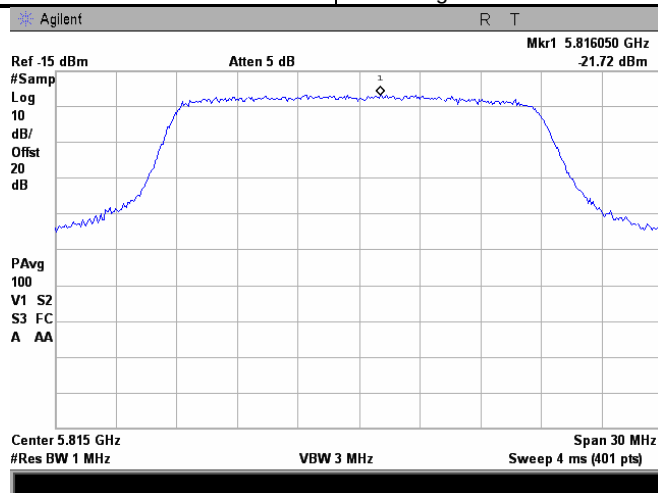
Plot 7.1.140 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

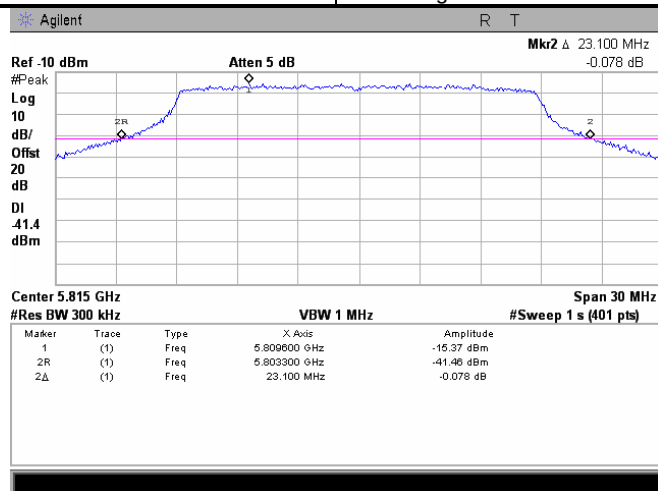
Plot 7.1.141 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Band Edge



Plot 7.1.142 The 26 dB emission bandwidth

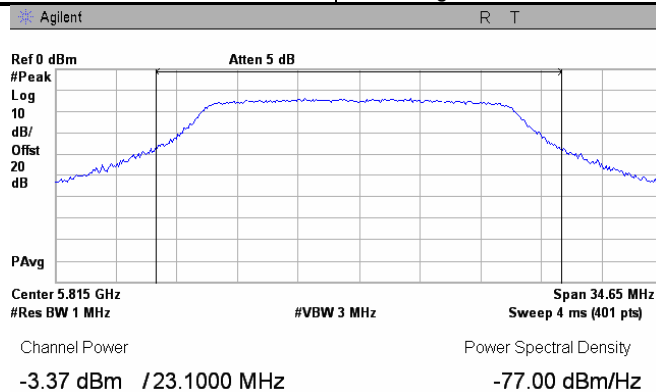
Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

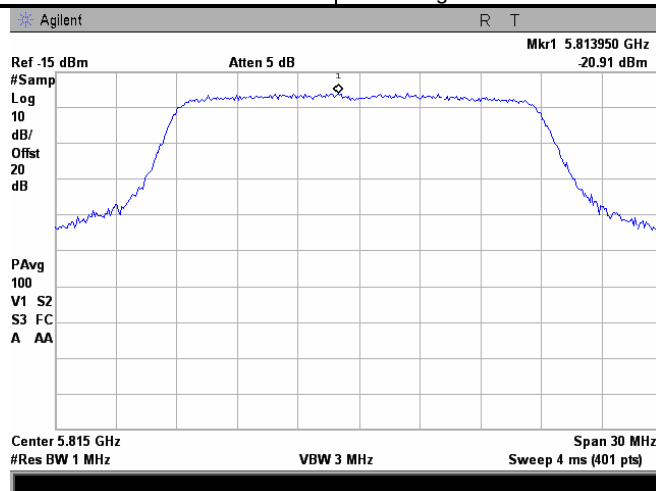
Plot 7.1.143 Peak output power

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



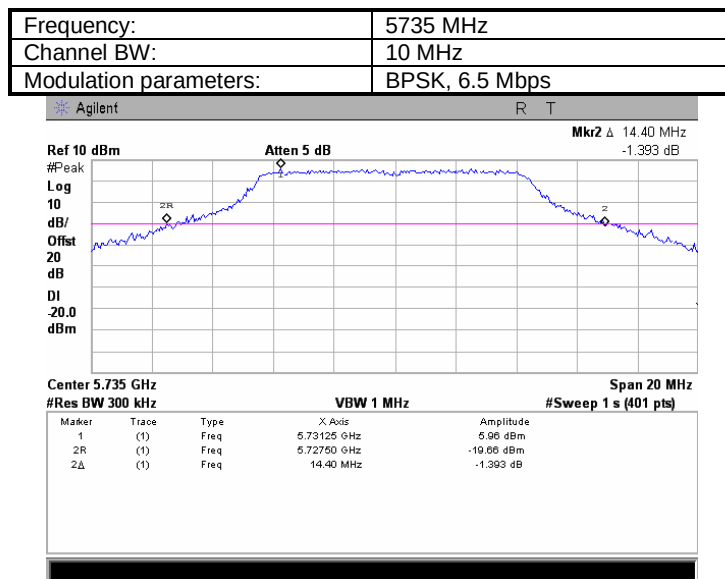
Plot 7.1.144 Peak spectral power density

Frequency:	5815 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

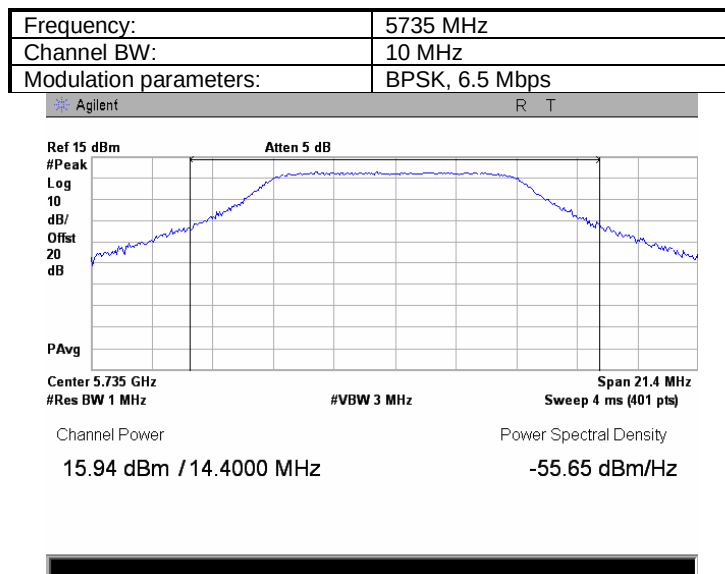


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.145 The 26 dB emission bandwidth

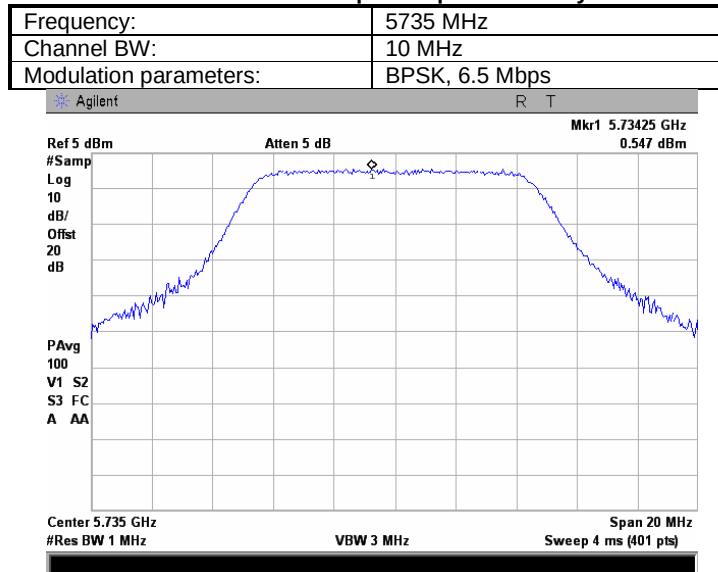


Plot 7.1.146 Peak output power

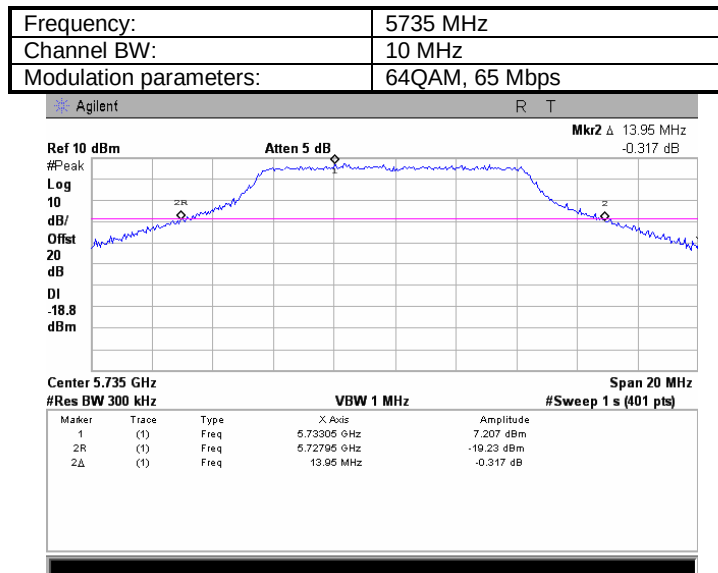


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.147 Peak spectral power density

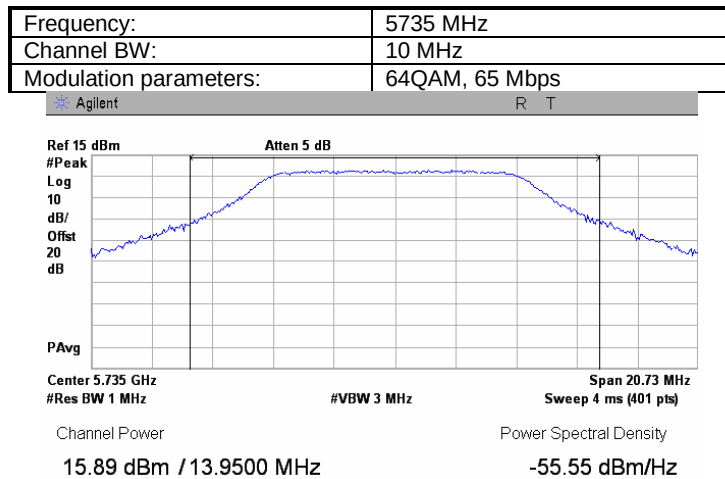


Plot 7.1.148 The 26 dB emission bandwidth

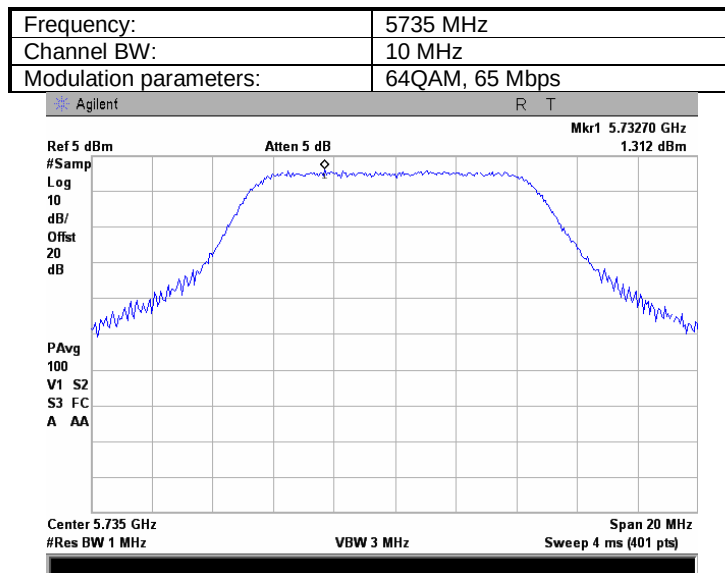


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.149 Peak output power

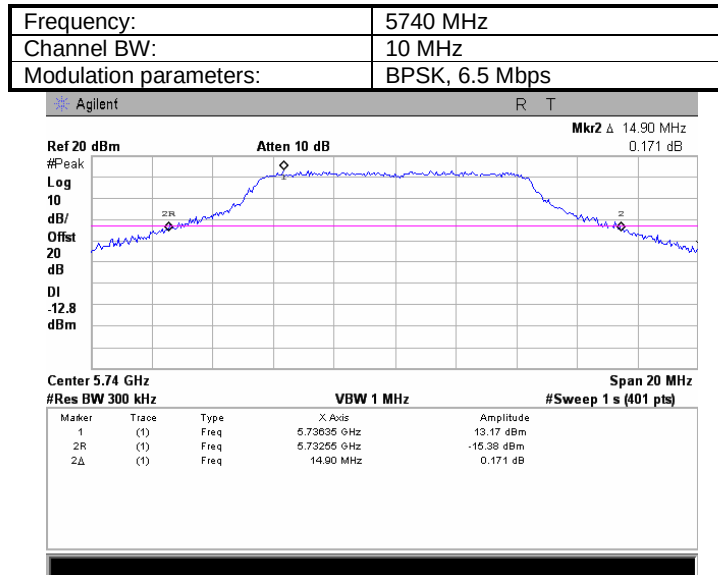


Plot 7.1.150 Peak spectral power density

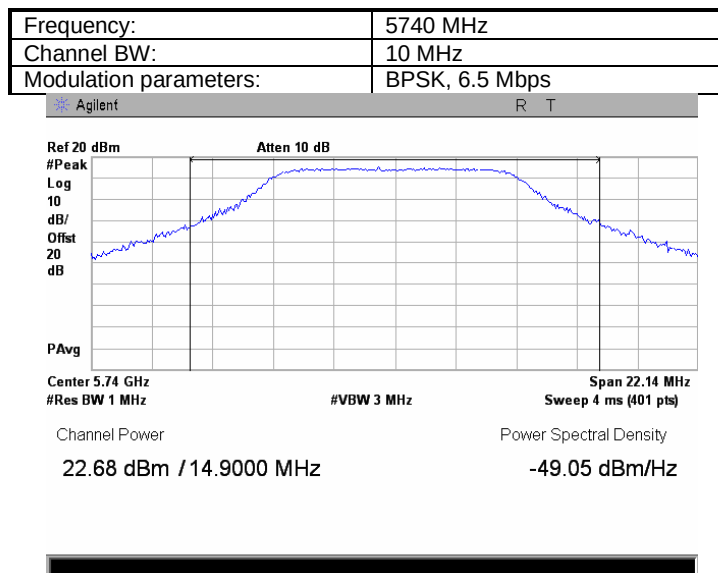


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.151 The 26 dB emission bandwidth

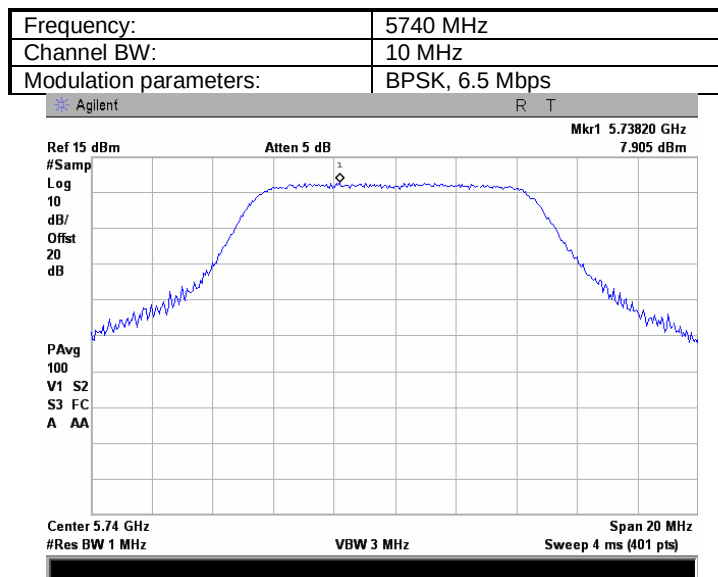


Plot 7.1.152 Peak output power

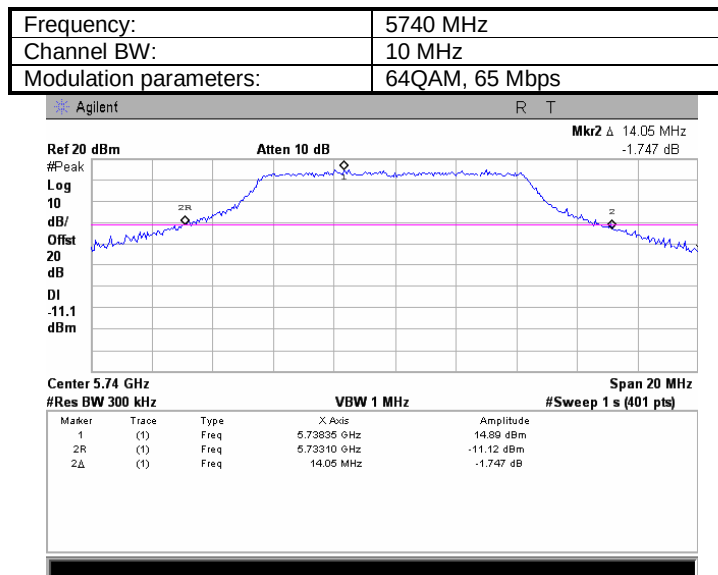


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.153 Peak spectral power density

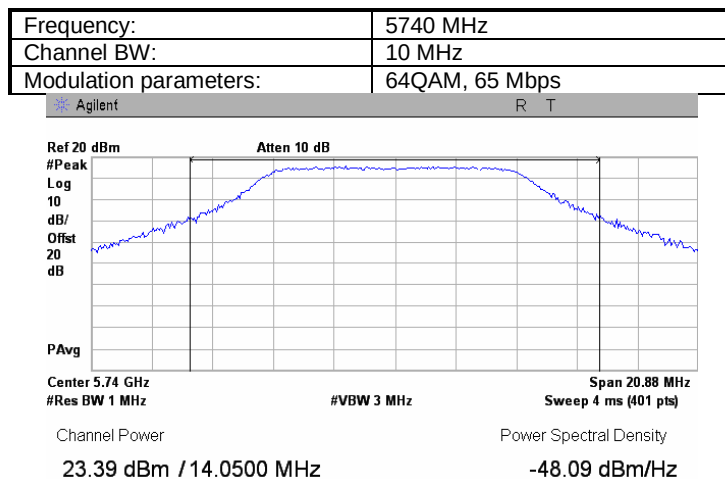


Plot 7.1.154 The 26 dB emission bandwidth

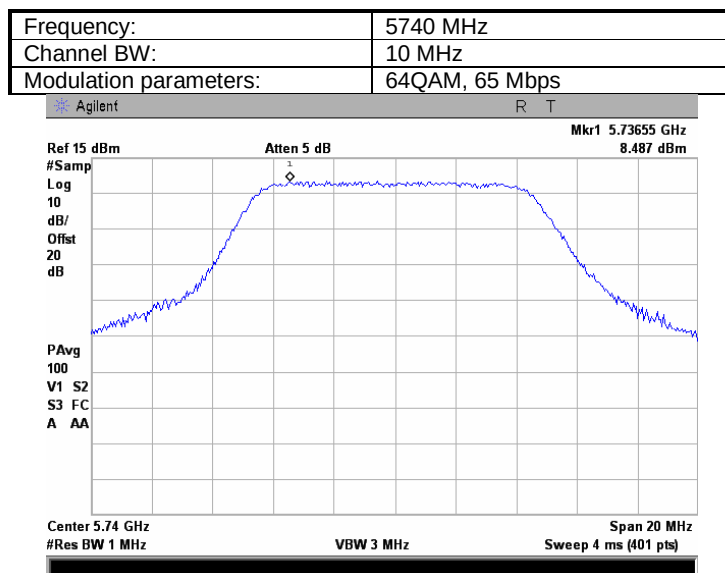


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.155 Peak output power

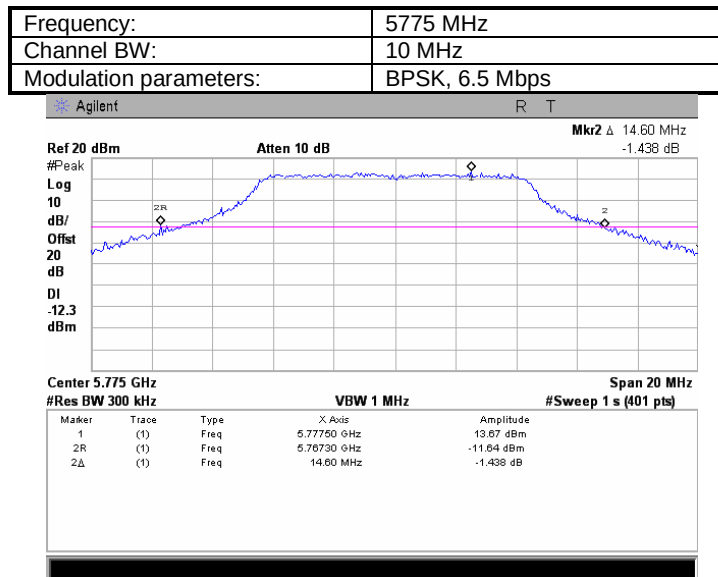


Plot 7.1.156 Peak spectral power density

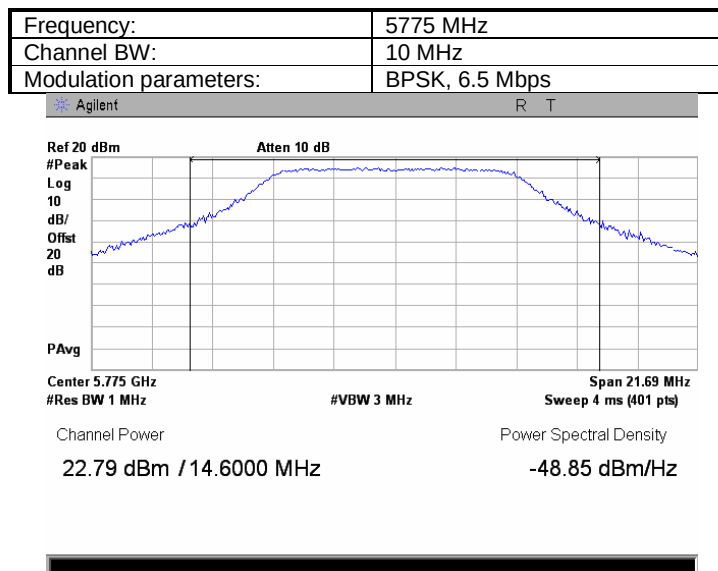


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.157 The 26 dB emission bandwidth

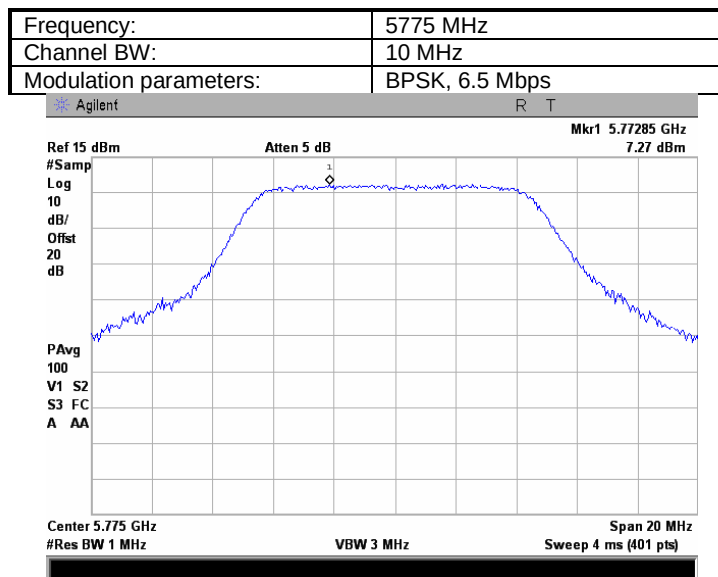


Plot 7.1.158 Peak output power

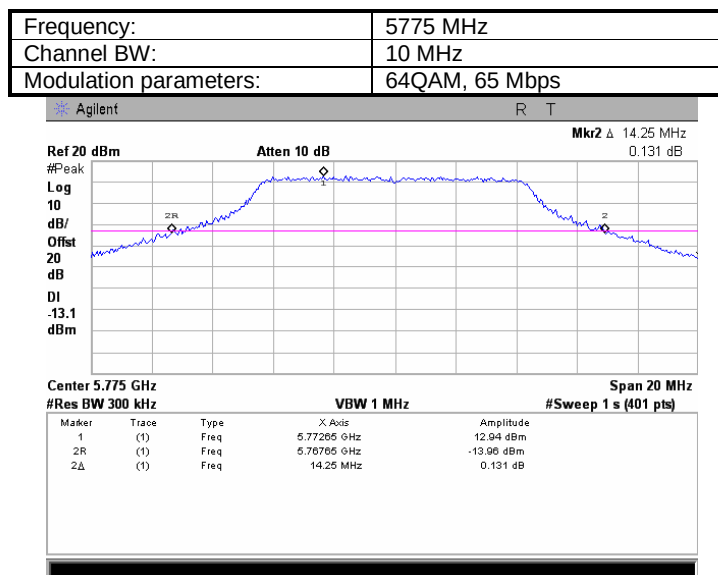


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.159 Peak spectral power density

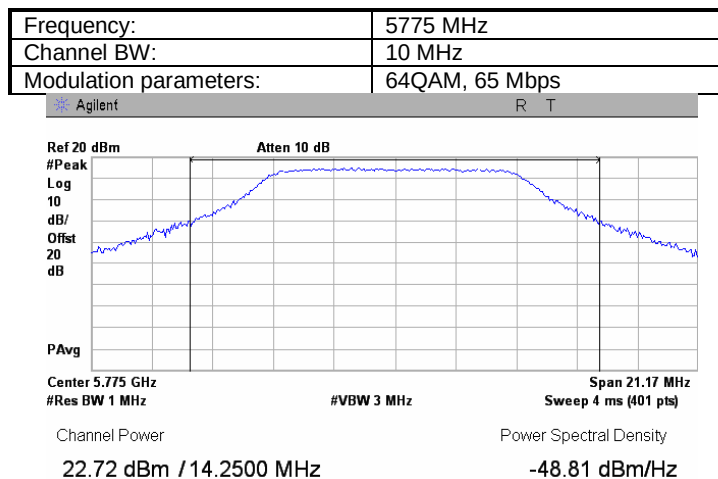


Plot 7.1.160 The 26 dB emission bandwidth

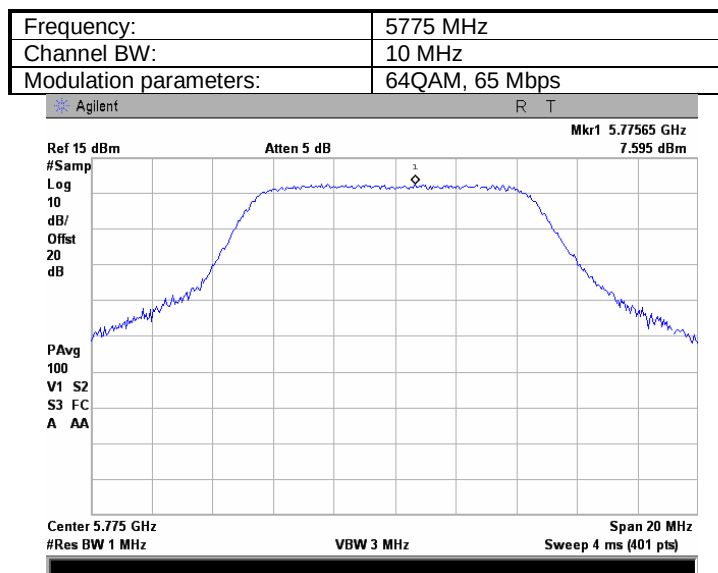


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.161 Peak output power

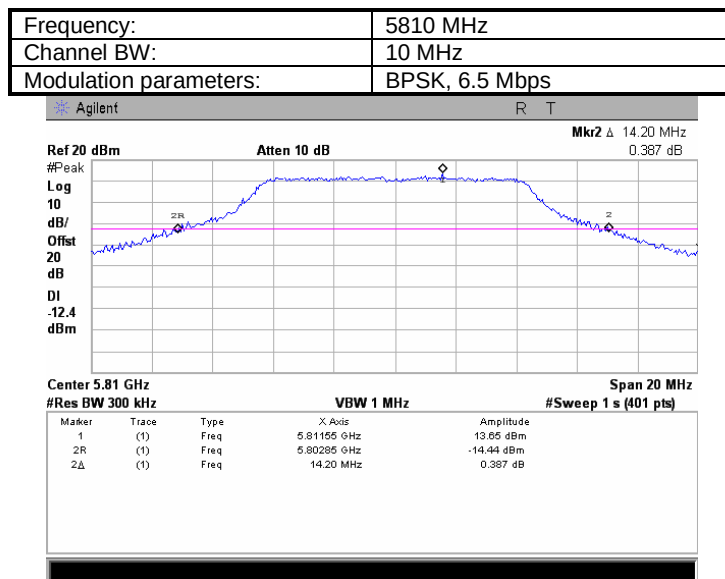


Plot 7.1.162 Peak spectral power density

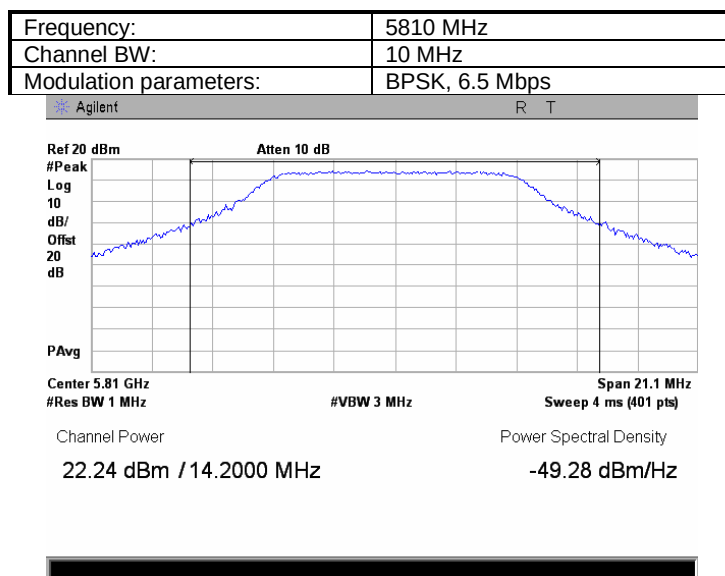


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.163 The 26 dB emission bandwidth

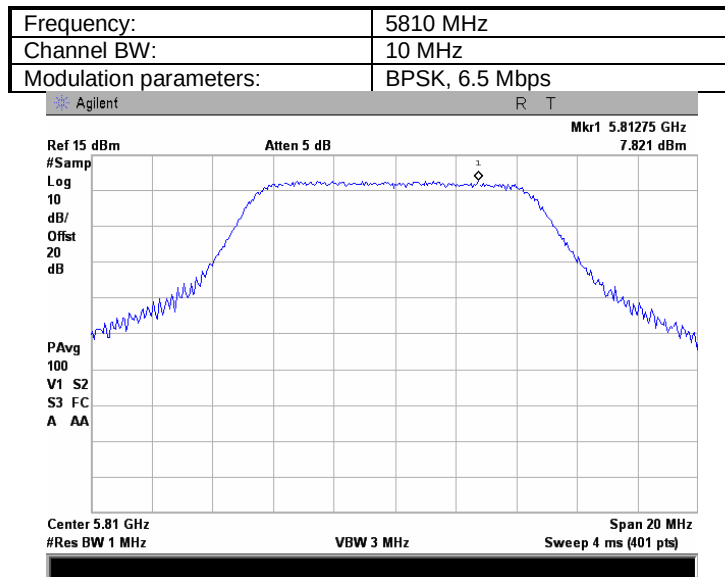


Plot 7.1.164 Peak output power

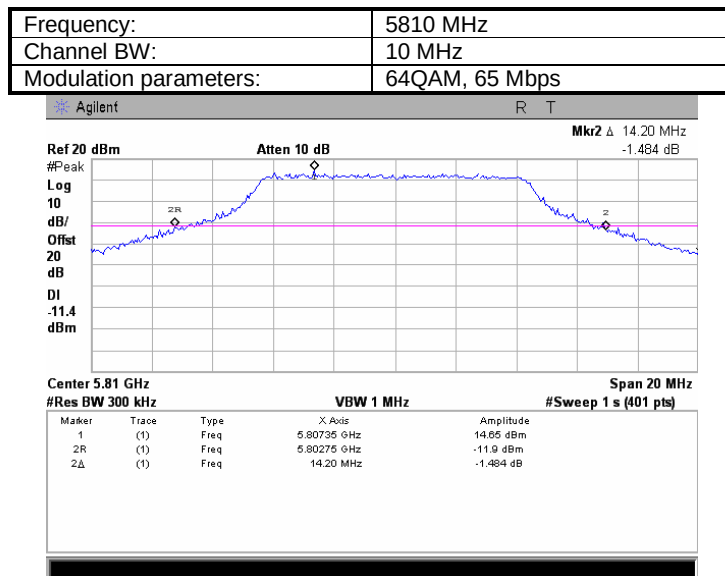


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.165 Peak spectral power density

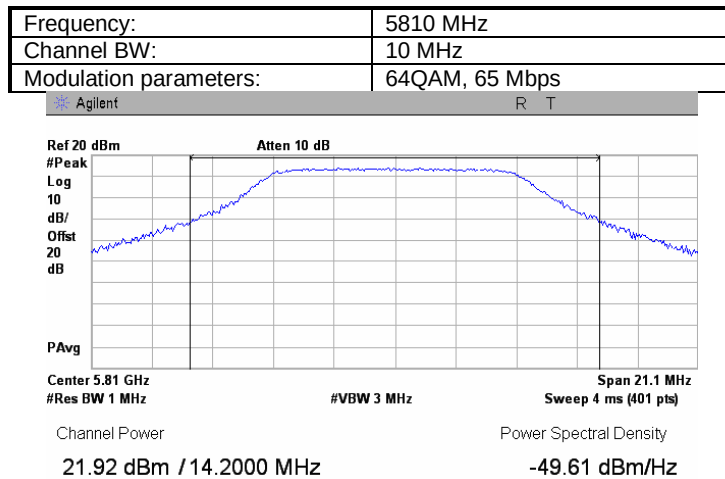


Plot 7.1.166 The 26 dB emission bandwidth

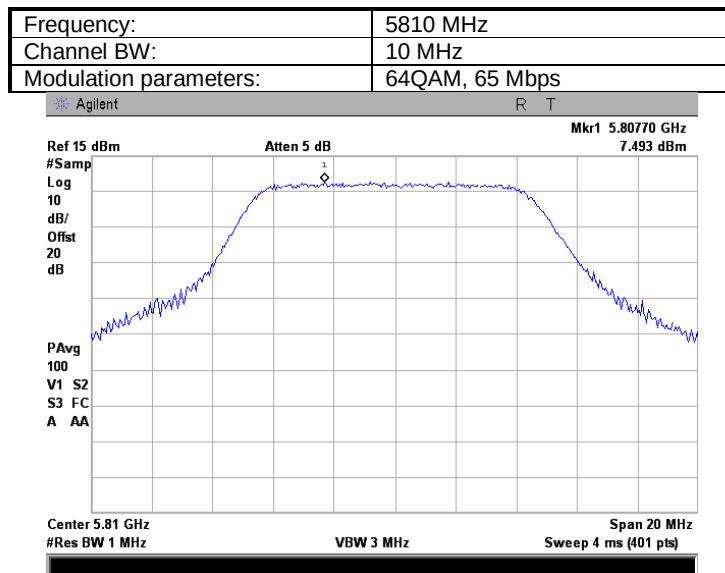


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.167 Peak output power

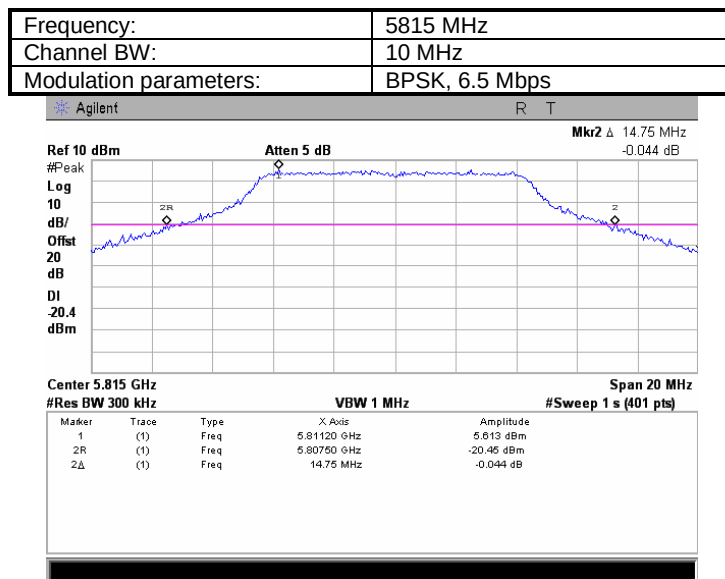


Plot 7.1.168 Peak spectral power density

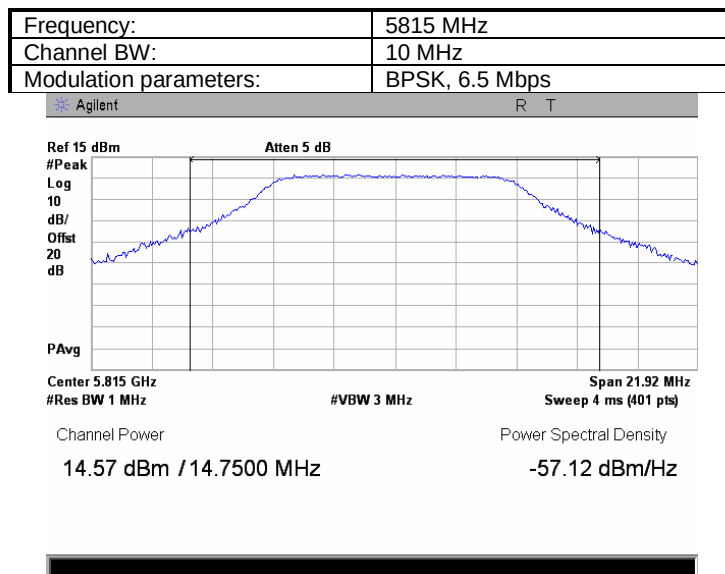


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.169 The 26 dB emission bandwidth

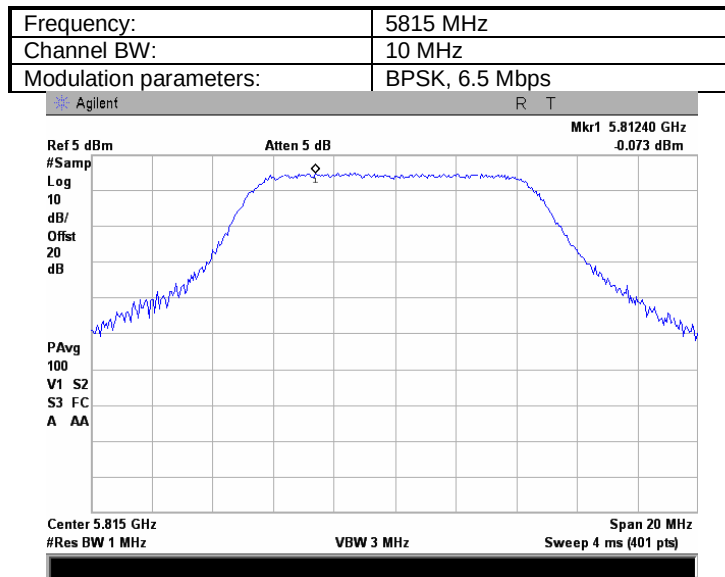


Plot 7.1.170 Peak output power

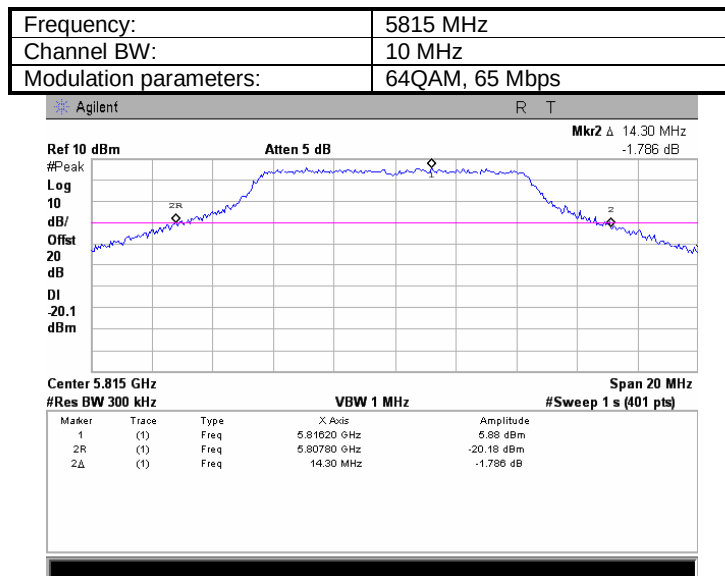


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.171 Peak spectral power density

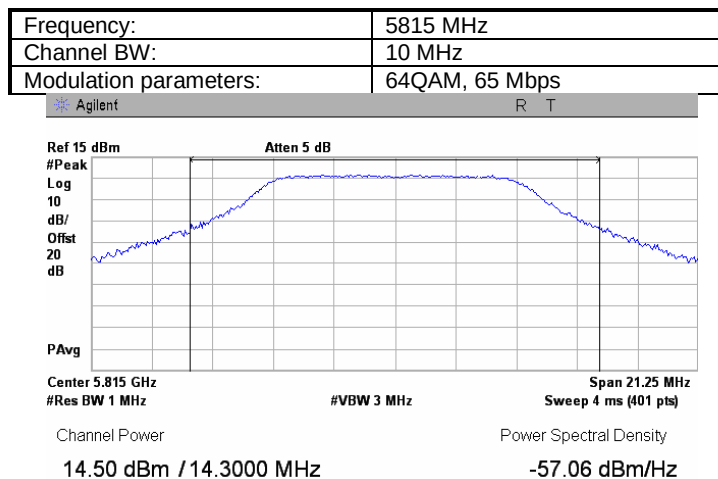


Plot 7.1.172 The 26 dB emission bandwidth

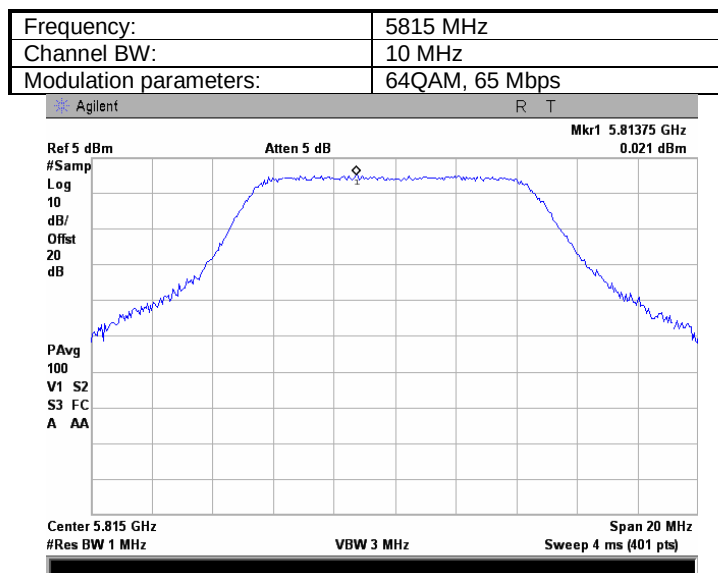


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.173 Peak output power

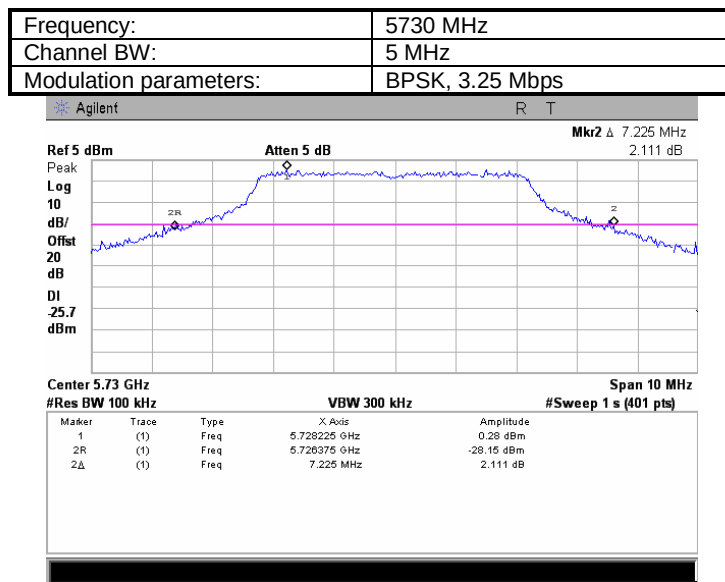


Plot 7.1.174 Peak spectral power density

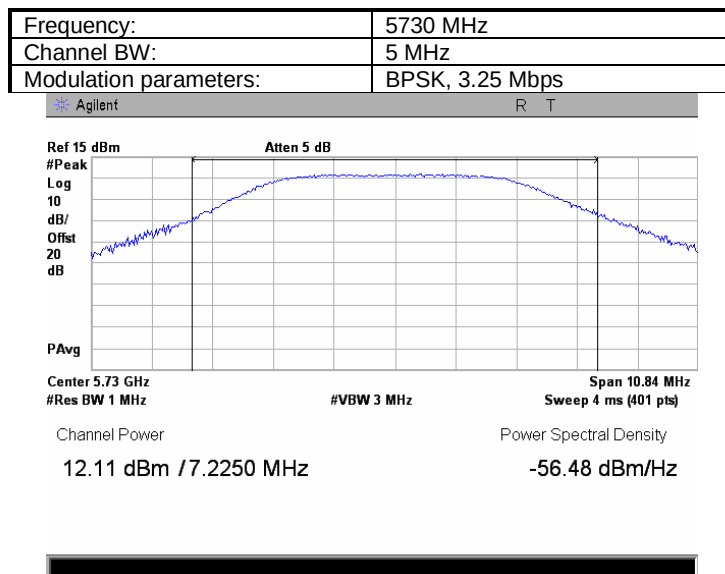


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.175 The 26 dB emission bandwidth

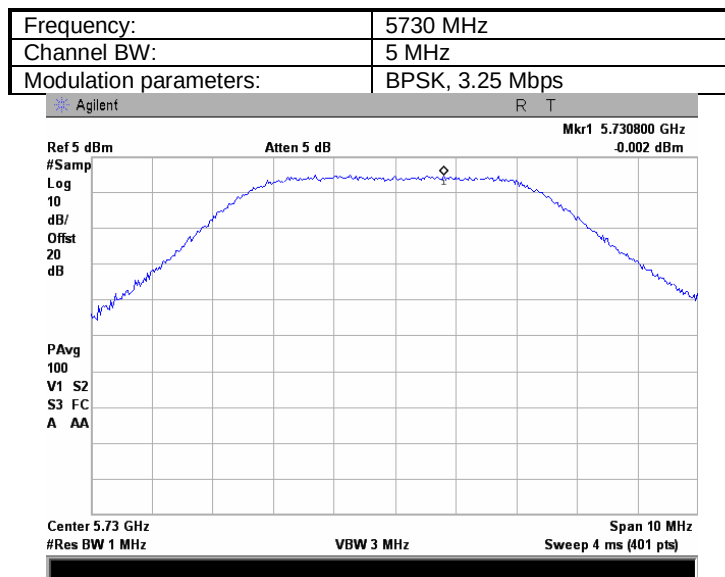


Plot 7.1.176 Peak output power

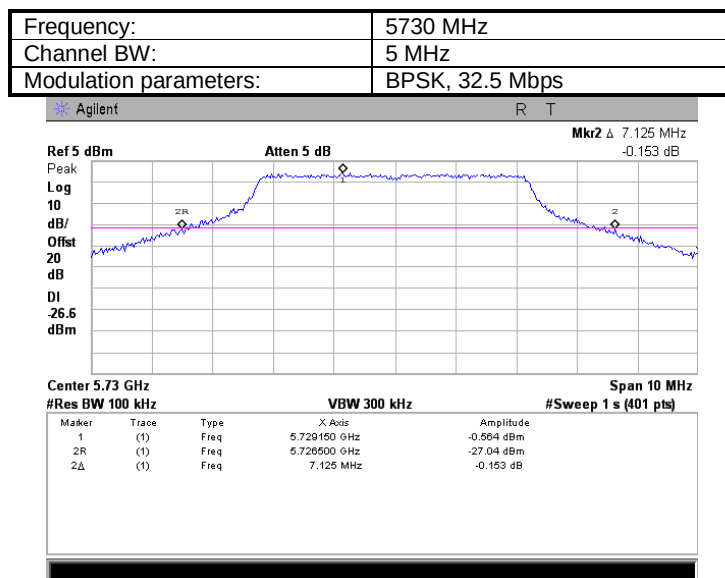


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.177 Peak spectral power density

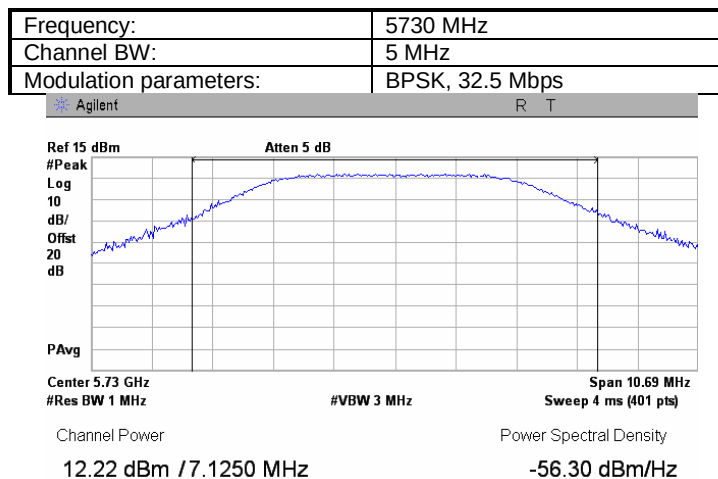


Plot 7.1.178 The 26 dB emission bandwidth

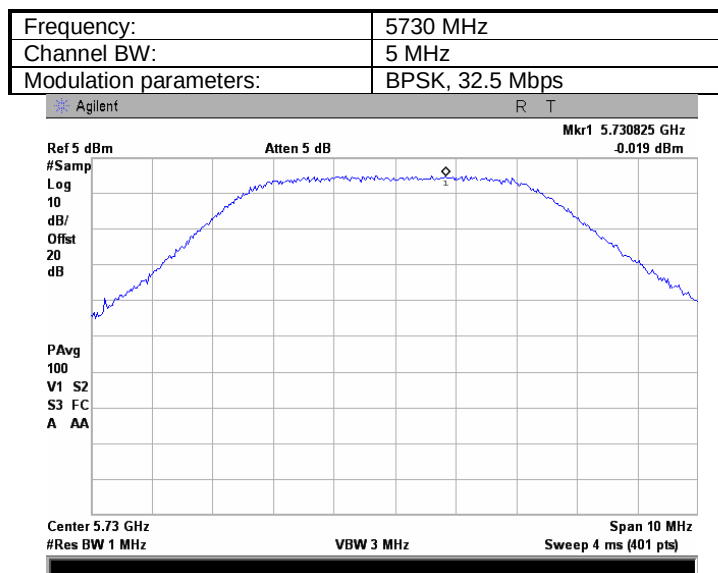


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.179 Peak output power

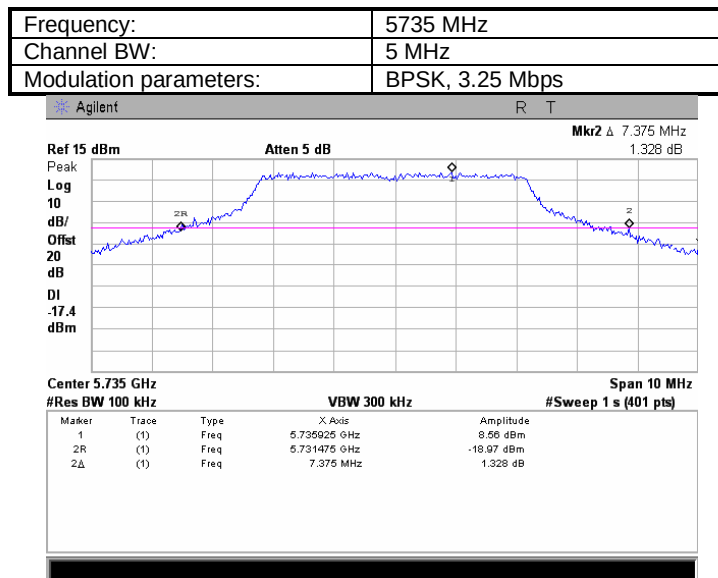


Plot 7.1.180 Peak spectral power density

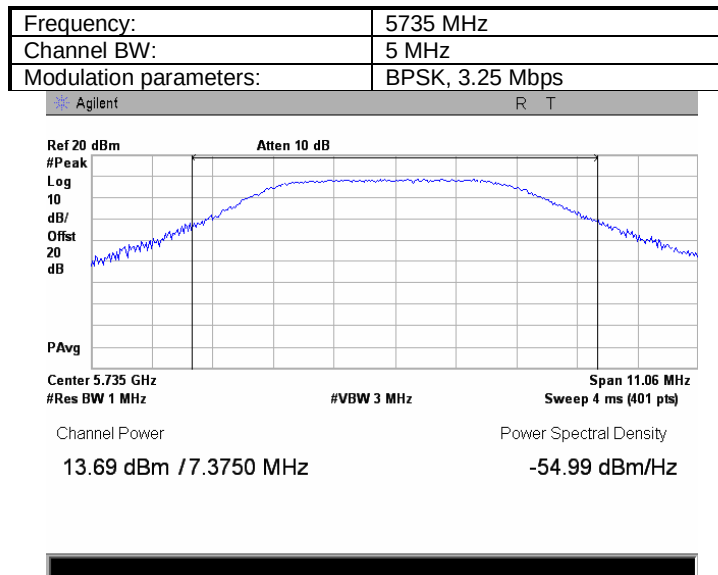


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.181 The 26 dB emission bandwidth

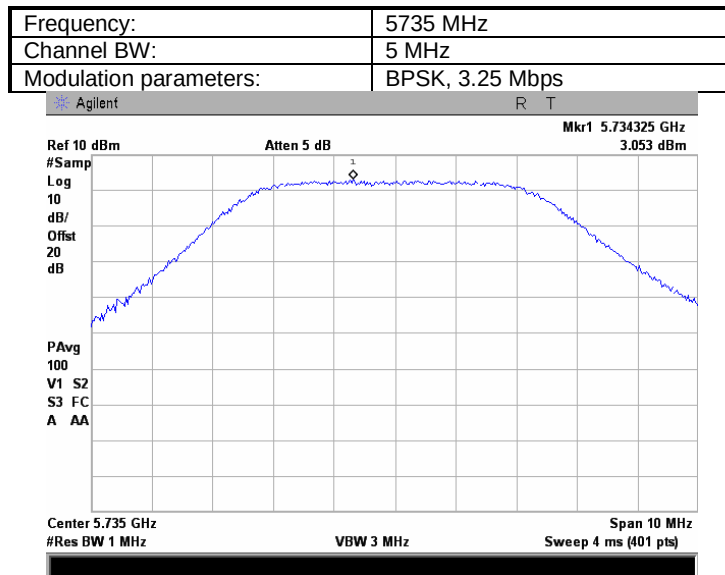


Plot 7.1.182 Peak output power

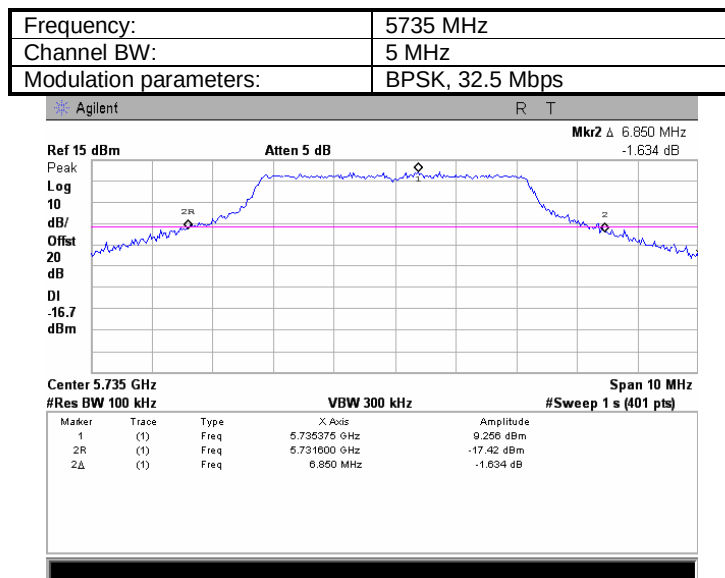


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.183 Peak spectral power density

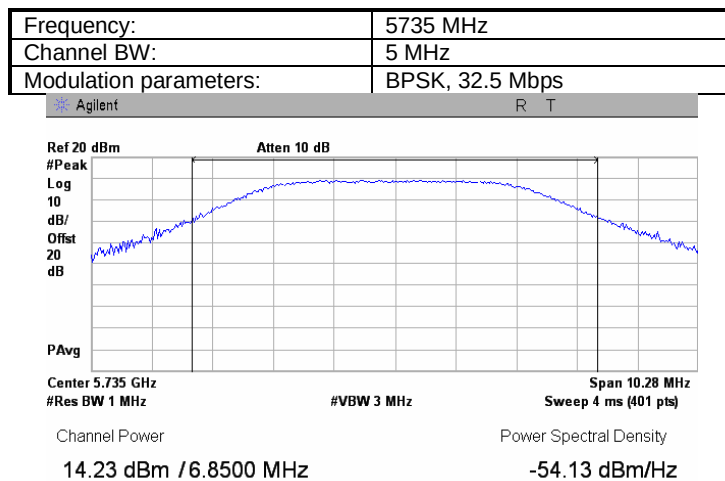


Plot 7.1.184 The 26 dB emission bandwidth

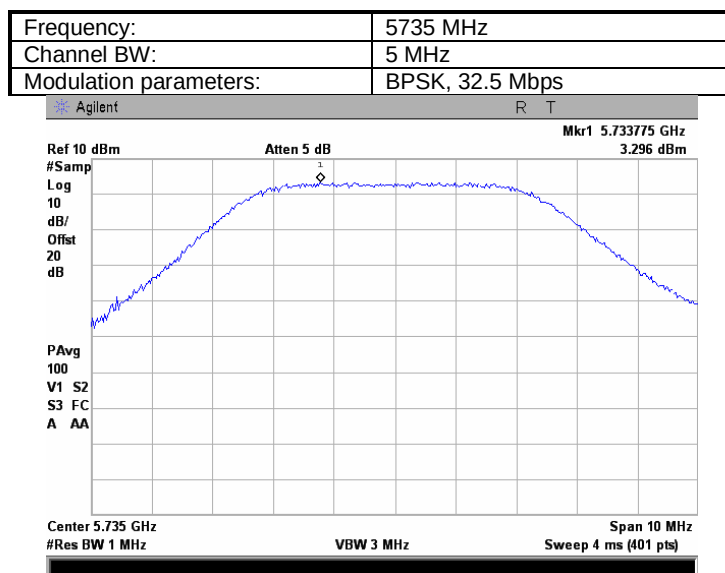


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.185 Peak output power

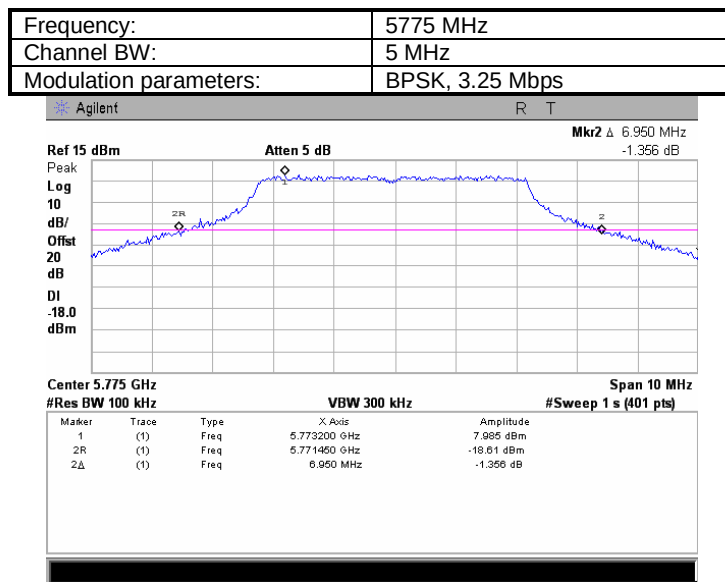


Plot 7.1.186 Peak spectral power density

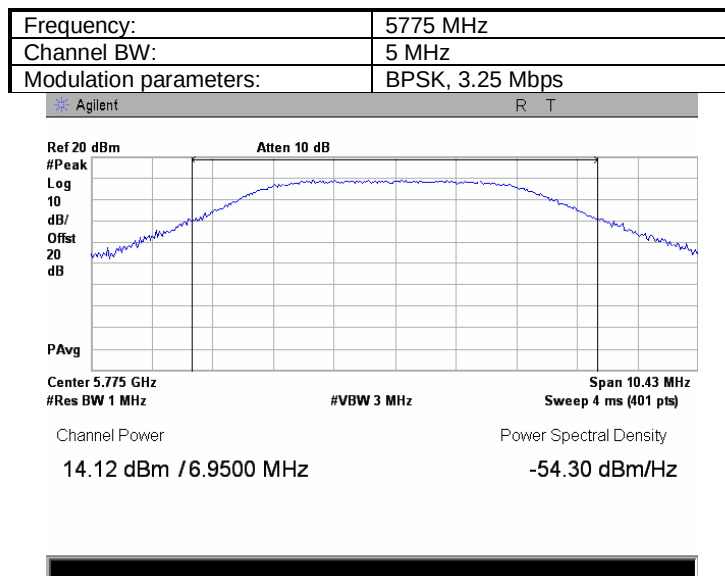


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.187 The 26 dB emission bandwidth

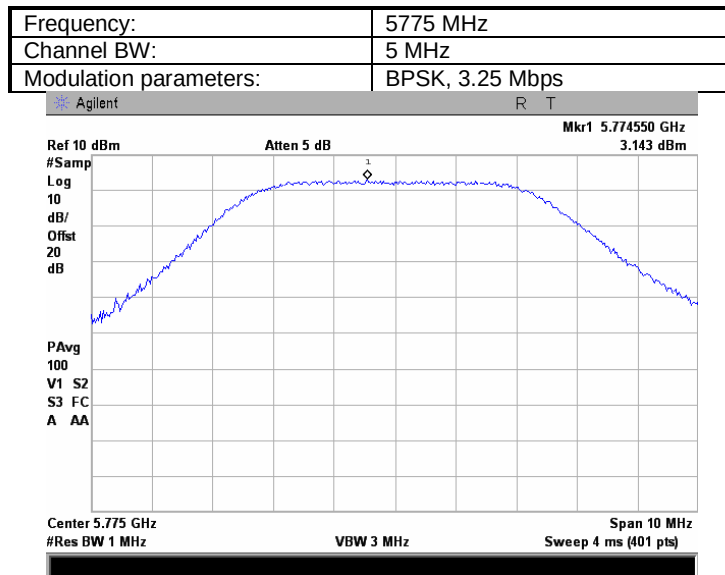


Plot 7.1.188 Peak output power

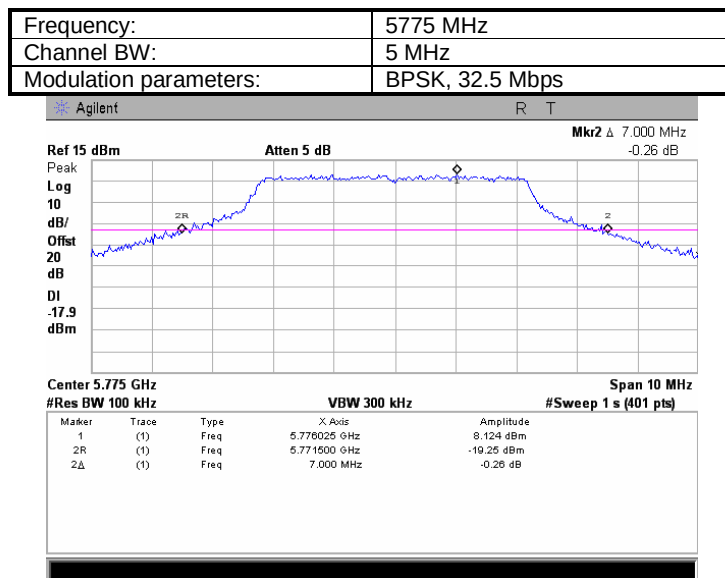


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.189 Peak spectral power density

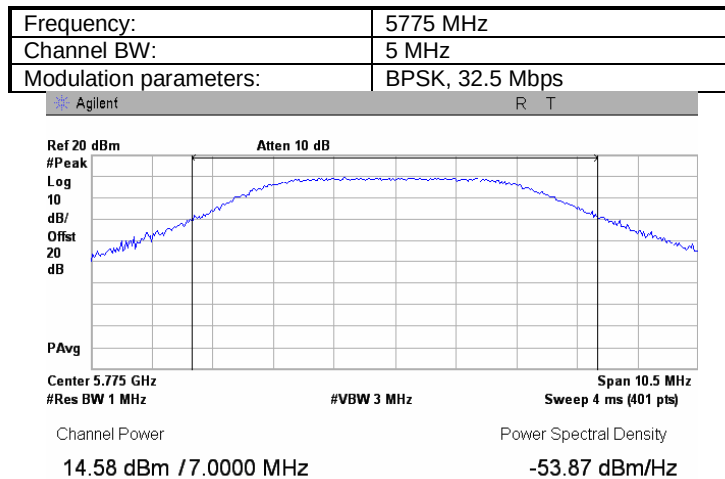


Plot 7.1.190 The 26 dB emission bandwidth

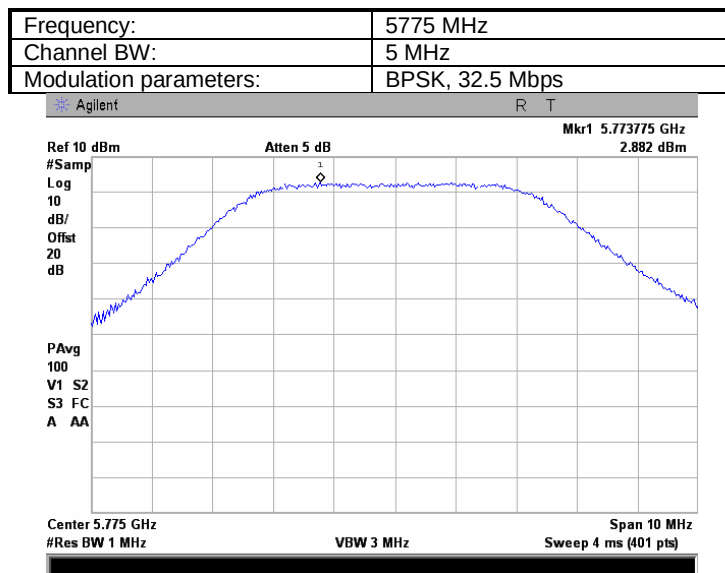


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.191 Peak output power

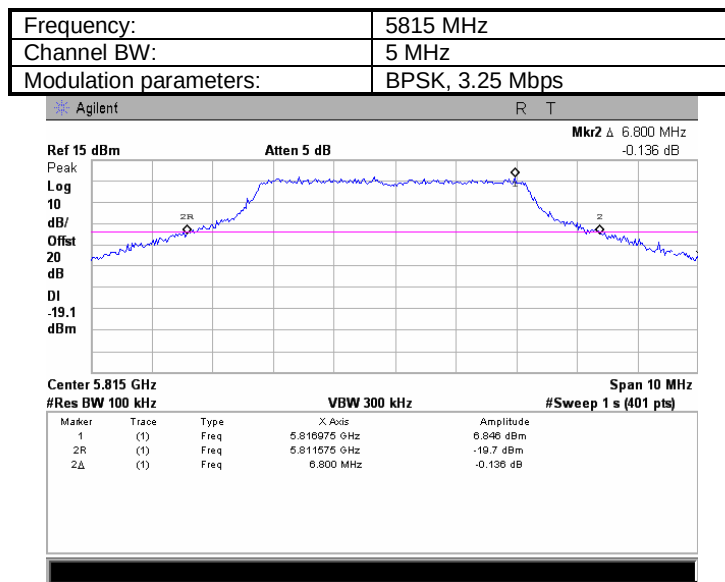


Plot 7.1.192 Peak spectral power density

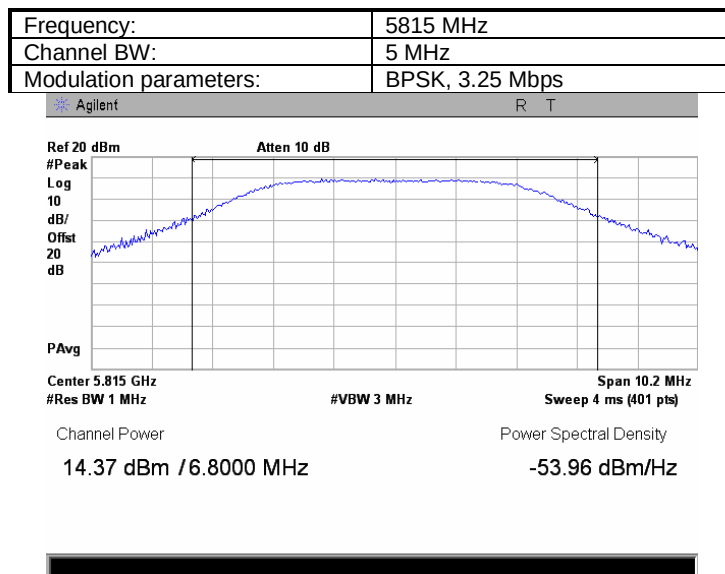


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.193 The 26 dB emission bandwidth

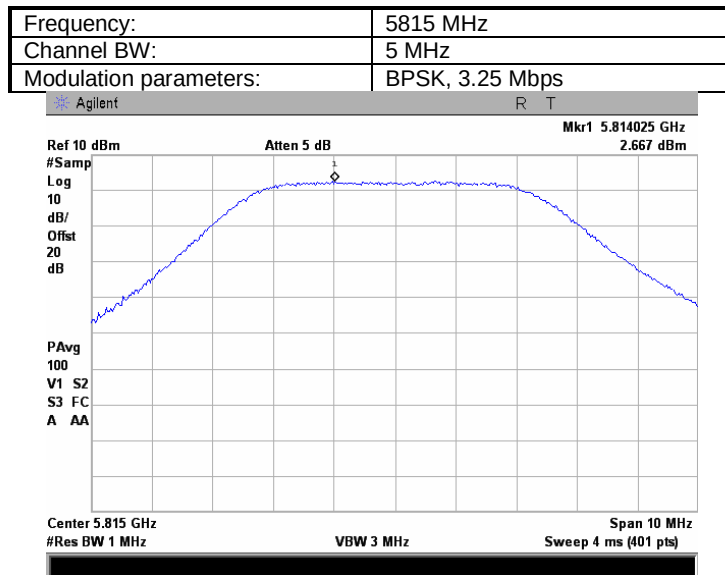


Plot 7.1.194 Peak output power

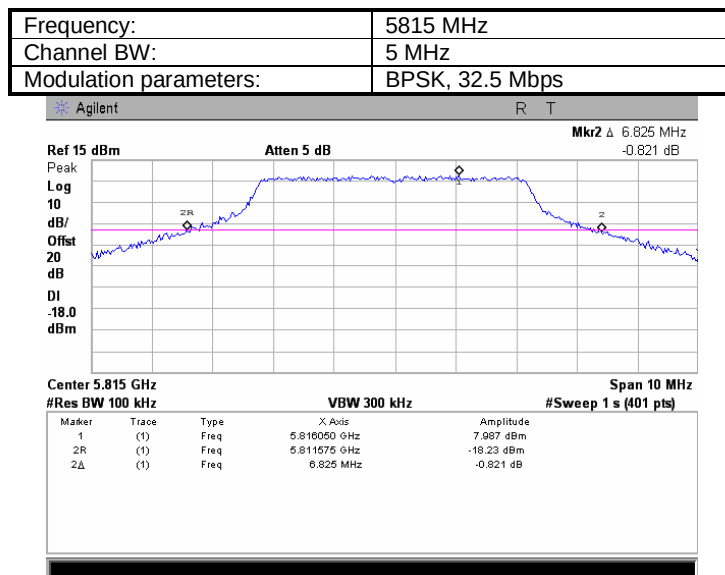


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.195 Peak spectral power density

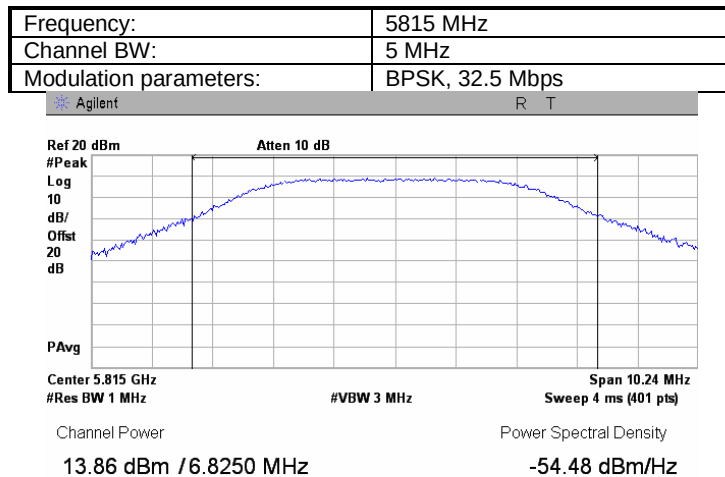


Plot 7.1.196 The 26 dB emission bandwidth

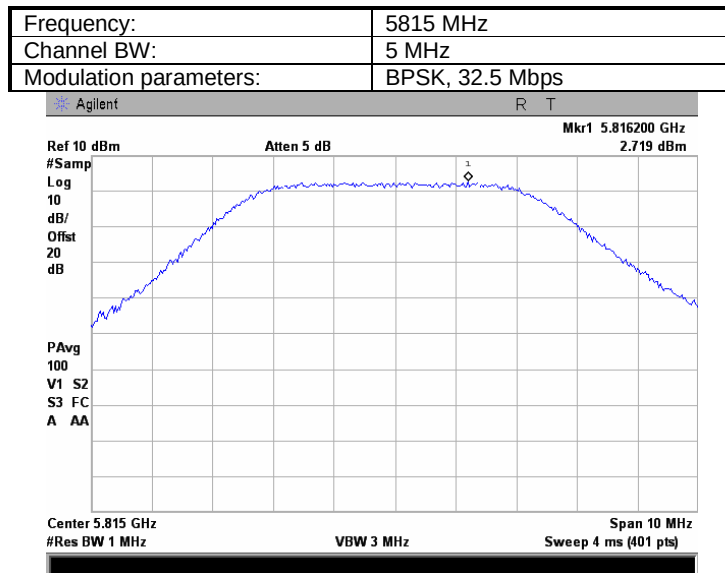


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.197 Peak output power

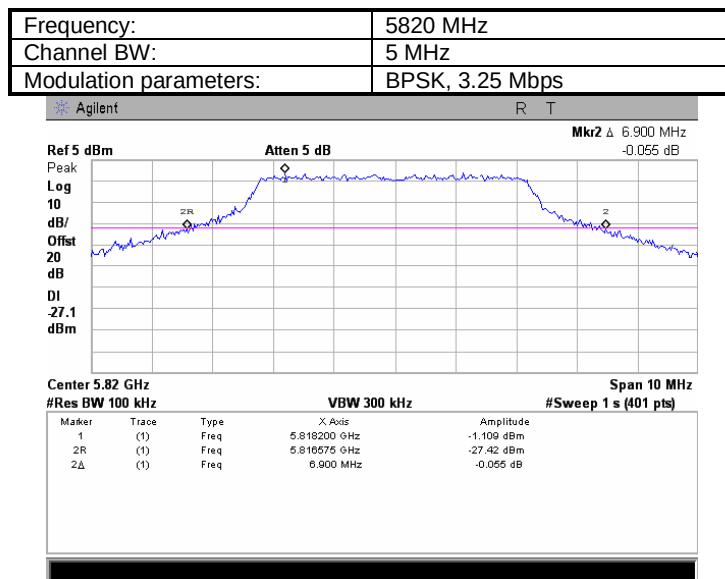


Plot 7.1.198 Peak spectral power density

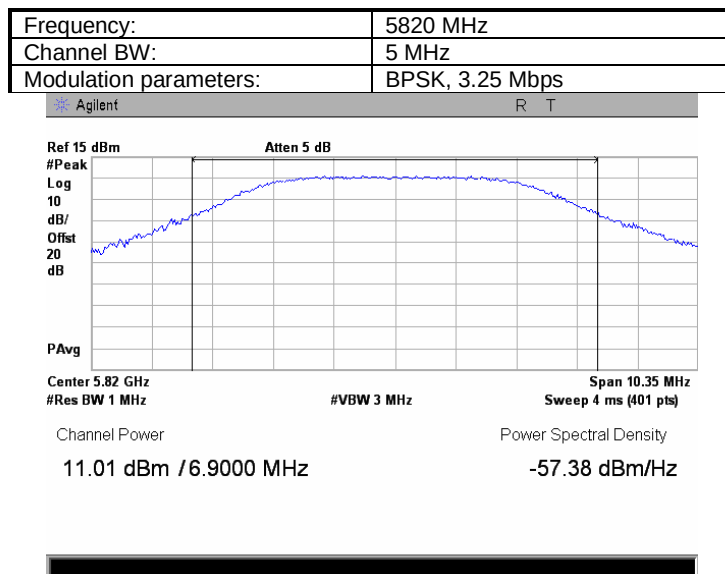


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2	
Test procedure:		Peak output power and peak power spectral density	
Test mode:		FCC Public Notice DA 02-2138, Appendix A	
Date:		Verdict: PASS	
Temperature: 24 °C			
Air Pressure: 1012 hPa		Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.199 The 26 dB emission bandwidth

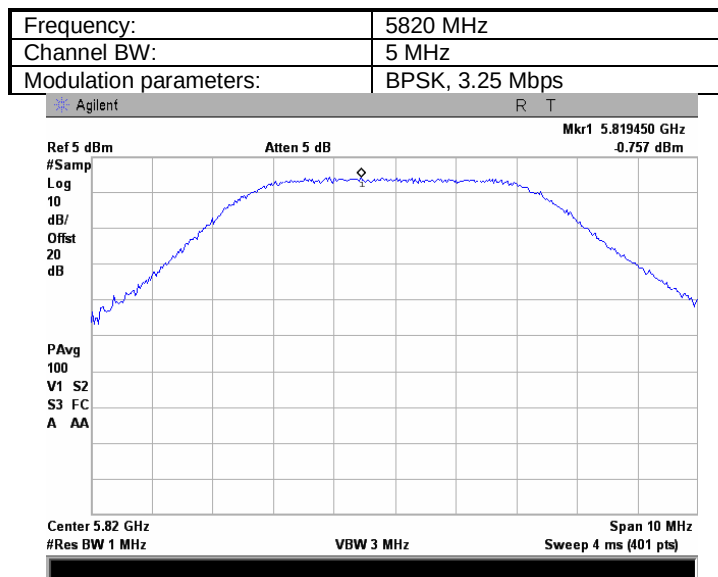


Plot 7.1.200 Peak output power

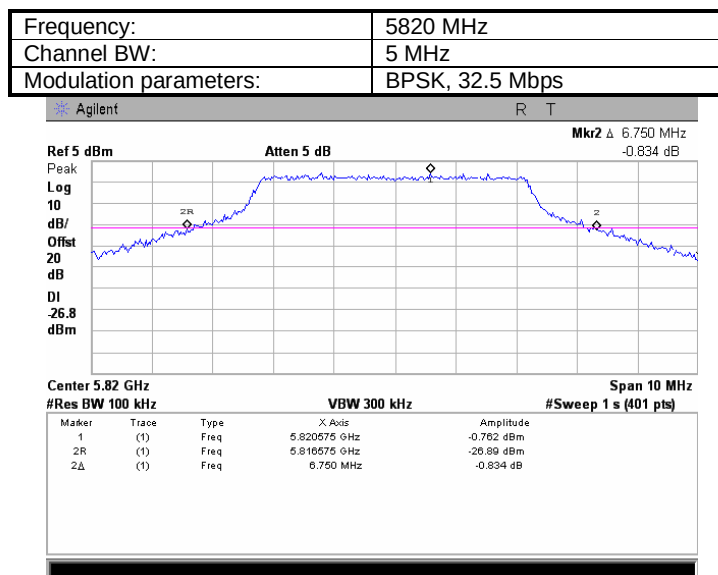


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.201 Peak spectral power density

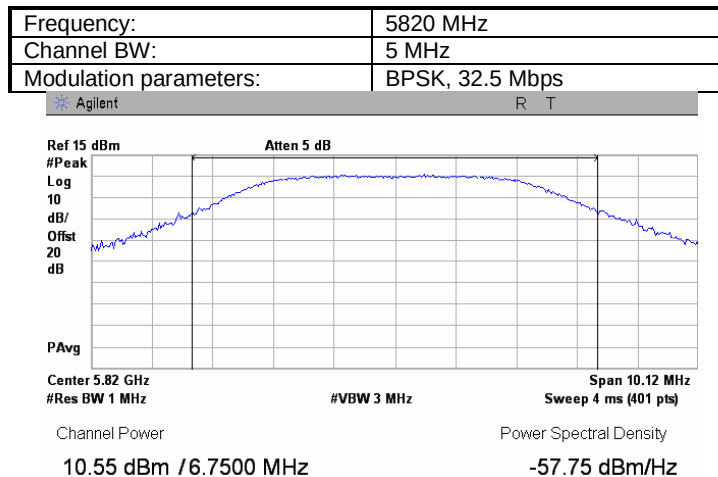


Plot 7.1.202 The 26 dB emission bandwidth

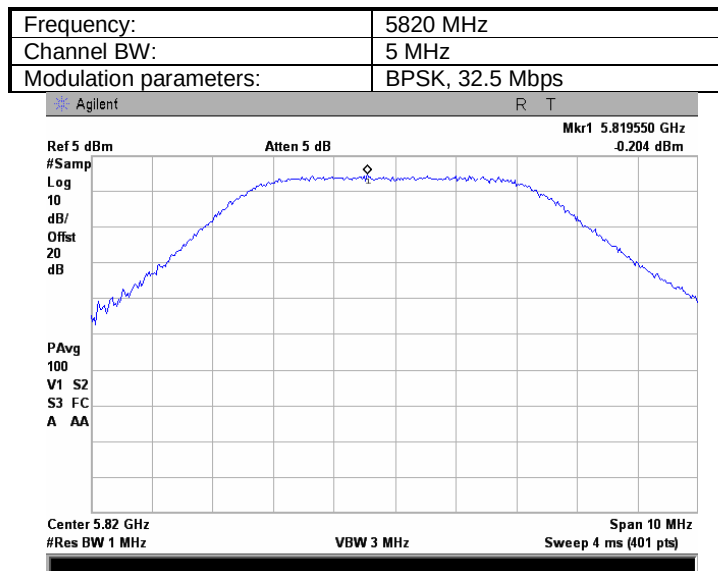


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 22.5 dBi antenna assembly gain			

Plot 7.1.203 Peak output power



Plot 7.1.204 Peak spectral power density



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Verdict: PASS	
Date:			
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.18 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	26 dB Bandwidth	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5745.0	47.400	27	BPSK	-2.38	0.62	25.0	-24.38	Pass
5745.0	47.550	270	64QAM	-2.65	0.35	25.0	-24.65	Pass
Mid channel								
5775.0	47.550	27	BPSK	20.75	23.75	25.0	-1.25	Pass
5775.0	46.800	270	64QAM	20.85	23.85	25.0	-1.15	Pass
High channel Band Edge								
5805.0	47.100	27	BPSK	-3.86	-0.86	25.0	-25.86	Pass
5805.0	46.650	270	64QAM	-3.46	-0.46	25.0	-25.46	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.19 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5735	24.225	13	BPSK	-6.83	-3.83	25.0	-28.83	Pass
5735	23.775	130	64QAM	-6.98	-3.98	25.0	-28.98	Pass
Low channel In-Band								
5755	23.700	13	BPSK	21.54	24.54	25.0	-0.46	Pass
5755	23.625	130	64QAM	21.26	24.26	25.0	-0.74	Pass
Mid channel								
5775	23.700	13	BPSK	20.94	23.94	25.0	-1.06	Pass
5775	22.875	130	64QAM	20.85	23.85	25.0	-1.15	Pass
High channel In-Band								
5795	23.550	13	BPSK	20.02	23.02	25.0	-1.98	Pass
5795	23.100	130	64QAM	21.18	24.18	25.0	-0.82	Pass
High channel Band Edge								
5815	24.300	13	BPSK	-8.73	-5.73	25.0	-30.73	Pass
5815	23.775	130	64QAM	-8.86	-5.86	25.0	-30.86	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.20 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
MODULATING SIGNAL: OFDM
DETECTOR USED: Peak
RESOLUTION BANDWIDTH: 1 MHz
VIDEO BANDWIDTH: 3 MHz
METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
ANTENNA ASSEMBLY GAIN: 28 dBi
EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5735	14.45	6.5	BPSK	10.52	13.52	23.6	-10.08	Pass
5735	13.30	65	64QAM	9.68	12.68	23.2	-10.56	Pass
Low channel In-Band								
5740	14.30	6.5	BPSK	20.37	23.37	23.6	-0.18	Pass
5740	13.90	65	64QAM	19.99	22.99	23.4	-0.44	Pass
Mid channel								
5775	14.15	6.5	BPSK	20.25	23.25	23.5	-0.26	Pass
5775	13.90	65	64QAM	20.20	23.20	23.4	-0.23	Pass
High channel In-Band								
5810	14.45	6.5	BPSK	19.12	22.12	23.6	-1.48	Pass
5810	13.80	65	64QAM	19.44	22.44	23.4	-0.96	Pass
High channel Band Edge								
5815	14.10	6.5	BPSK	9.18	12.18	23.5	-11.31	Pass
5815	14.00	65	64QAM	9.51	12.51	23.5	-10.95	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.21 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, Mbps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge								
5730	7.175	3.25	BPSK	6.61	9.61	20.6	-10.95	Pass
5730	6.825	32.5	64QAM	6.15	9.15	20.3	-11.19	Pass
Low channel In-Band								
5735	6.850	3.25	BPSK	8.68	11.68	20.4	-8.68	Pass
5735	6.800	32.5	64QAM	8.66	11.66	20.3	-8.67	Pass
Mid channel								
5775	6.850	3.25	BPSK	7.81	10.81	20.4	-9.55	Pass
5775	6.725	32.5	64QAM	8.20	11.20	20.3	-9.08	Pass
High channel In-Band								
5815	6.750	3.25	BPSK	7.49	10.49	20.3	-9.80	Pass
5815	6.750	32.5	64QAM	7.28	10.28	20.3	-10.01	Pass
High channel Band Edge								
5820	7.150	3.25	BPSK	5.09	8.09	20.5	-12.45	Pass
5820	6.675	32.5	64QAM	4.56	7.56	20.2	-12.68	Pass

* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

** - Margin = Total output power – specification limit.

Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787			
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Full description is given in Appendix A.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.22 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5745.0	27	BPSK	-23.08	-20.08	12.0	-32.08	Pass
5745.0	270	64QAM	-22.77	-19.77	12.0	-31.77	Pass
Mid channel							
5775.0	27	BPSK	0.43	3.43	12.0	-8.57	Pass
5775.0	270	64QAM	1.32	4.32	12.0	-7.68	Pass
High channel Band Edge							
5805.0	27	BPSK	-23.80	-20.80	12.0	-32.80	Pass
5805.0	270	64QAM	-23.75	-20.75	12.0	-32.75	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.23 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5735	13	BPSK	-24.7	-21.70	12.0	-33.70	Pass
5735	130	64QAM	-24.2	-21.17	12.0	-33.17	Pass
Low channel In-Band							
5755	13	BPSK	3.75	6.75	12.0	-5.25	Pass
5755	130	64QAM	3.43	6.43	12.0	-5.57	Pass
Mid channel							
5775	13	BPSK	3.43	6.43	12.0	-5.57	Pass
5775	130	64QAM	3.87	6.87	12.0	-5.13	Pass
High channel In-Band							
5795	13	BPSK	3.12	6.12	12.0	-5.88	Pass
5795	130	64QAM	4.21	7.21	12.0	-4.79	Pass
High channel Band Edge							
5815	13	BPSK	-26.6	-23.60	12.0	-35.60	Pass
5815	130	64QAM	-26.4	-23.36	12.0	-35.36	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.24 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5735	6.5	BPSK	-5.0	-2.01	12.0	-14.01	Pass
5735	65	64QAM	-4.4	-1.42	12.0	-13.42	Pass
Low channel In-Band							
5740	6.5	BPSK	5.8	8.76	12.0	-3.24	Pass
5740	65	64QAM	5.9	8.87	12.0	-3.13	Pass
Mid channel							
5775	6.5	BPSK	5.7	8.72	12.0	-3.28	Pass
5775	65	64QAM	5.6	8.55	12.0	-3.45	Pass
High channel In-Band							
5810	6.5	BPSK	4.4	7.38	12.0	-4.62	Pass
5810	65	64QAM	5.0	7.95	12.0	-4.05	Pass
High channel Band Edge							
5815	6.5	BPSK	-5.6	-2.64	12.0	-14.64	Pass
5815	65	64QAM	-5.5	-2.51	12.0	-14.51	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict: PASS	
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Table 7.1.25 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5725-5825 MHz
 MODULATING SIGNAL: OFDM
 DETECTOR USED: Sample
 RESOLUTION BANDWIDTH: 1 MHz
 VIDEO BANDWIDTH: 3 MHz
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)
 ANTENNA ASSEMBLY GAIN: 28 dBi
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	Bit Rate, Mbps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
Low channel Band Edge							
5730	3.25	BPSK	-5.6	-2.60	12.0	-14.60	Pass
5730	32.5	64QAM	-5.8	-2.82	12.0	-14.82	Pass
Low channel In-Band							
5735	3.25	BPSK	-3.28	-0.28	12.0	-12.28	Pass
5735	32.5	64QAM	-2.46	0.54	12.0	-11.46	Pass
Mid channel							
5775	3.25	BPSK	-3.38	-0.38	12.0	-12.38	Pass
5775	32.5	64QAM	-3.62	-0.62	12.0	-12.62	Pass
High channel In-Band							
5815	3.25	BPSK	-3.79	-0.79	12.0	-12.79	Pass
5815	32.5	64QAM	-3.74	-0.74	12.0	-12.74	Pass
High channel Band Edge							
5820	3.25	BPSK	-6.9	-3.92	12.0	-15.92	Pass
5820	32.5	64QAM	-7.1	-4.10	12.0	-16.10	Pass

* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

** - Margin = Total peak power density – specification limit.

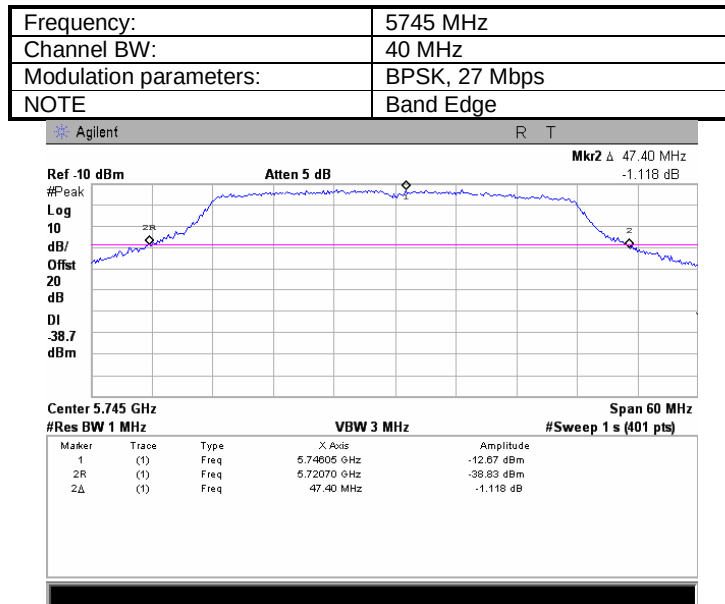
Reference numbers of test equipment used

HL 2909	HL 2953	HL 3768	HL 3776	HL 3787			
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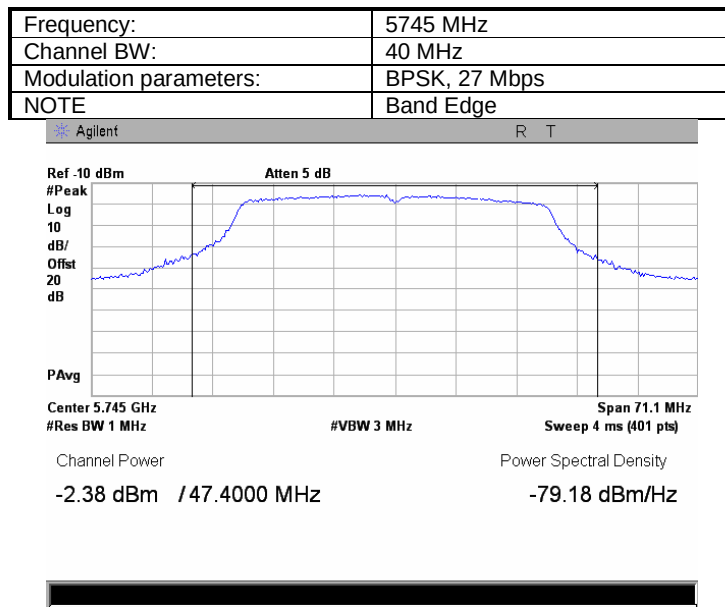
Full description is given in Appendix A.

Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.205 The 26 dB emission bandwidth

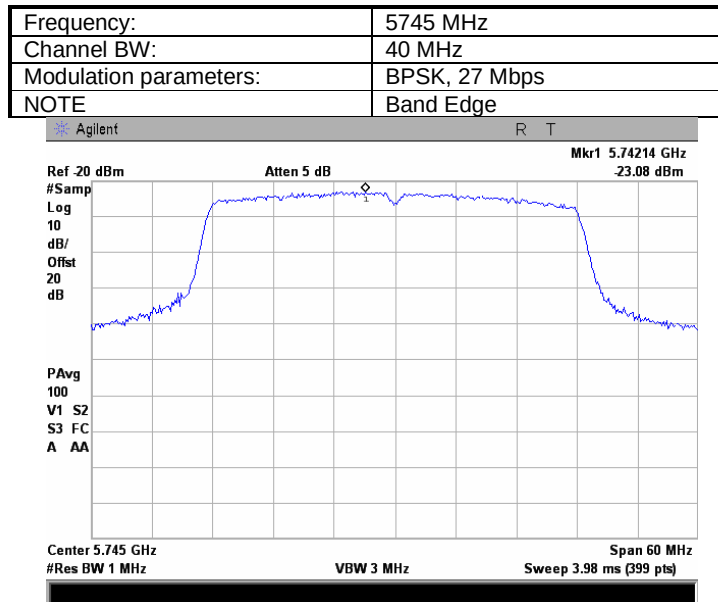


Plot 7.1.206 Peak output power

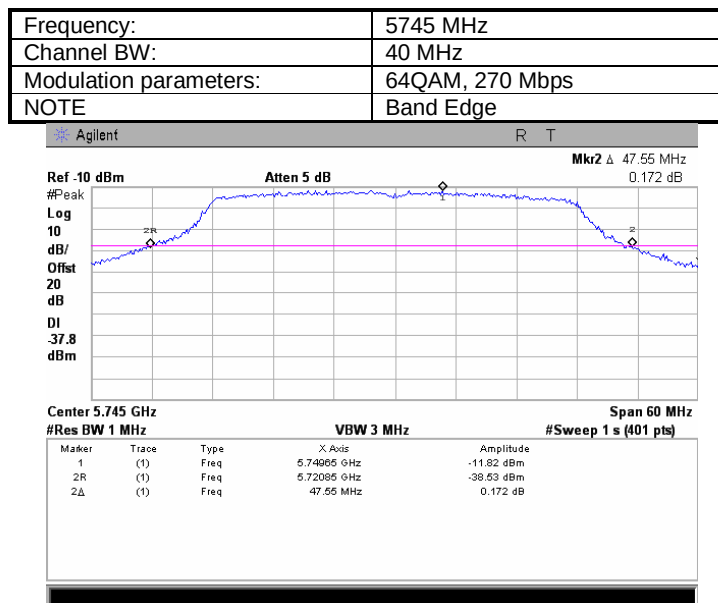


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.207 Peak spectral power density

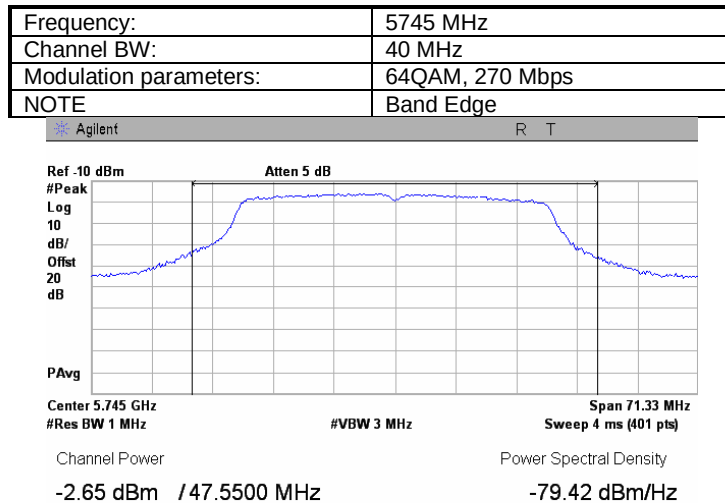


Plot 7.1.208 The 26 dB emission bandwidth

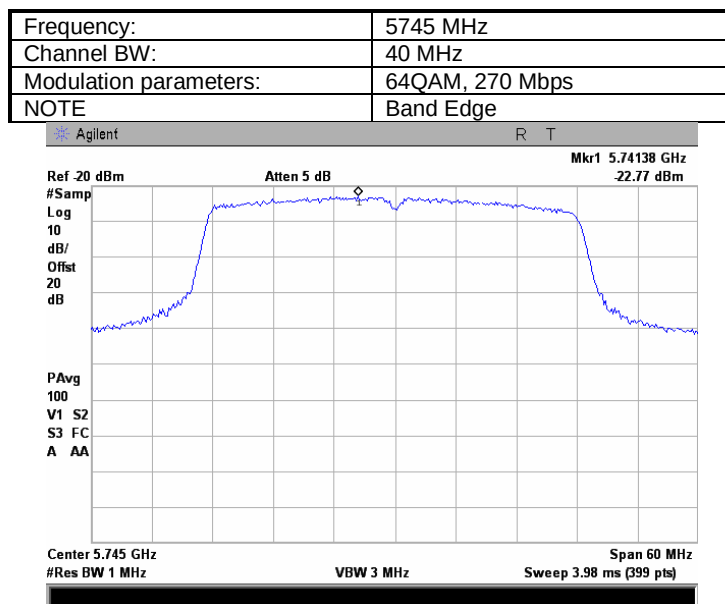


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.209 Peak output power

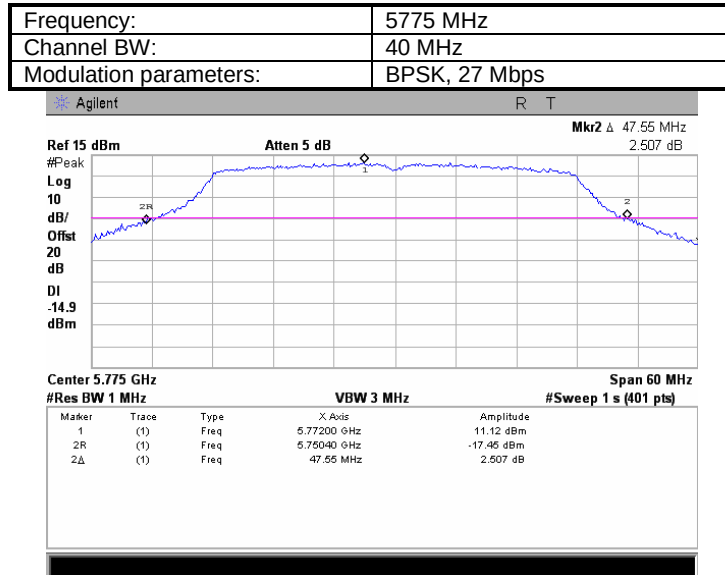


Plot 7.1.210 Peak spectral power density

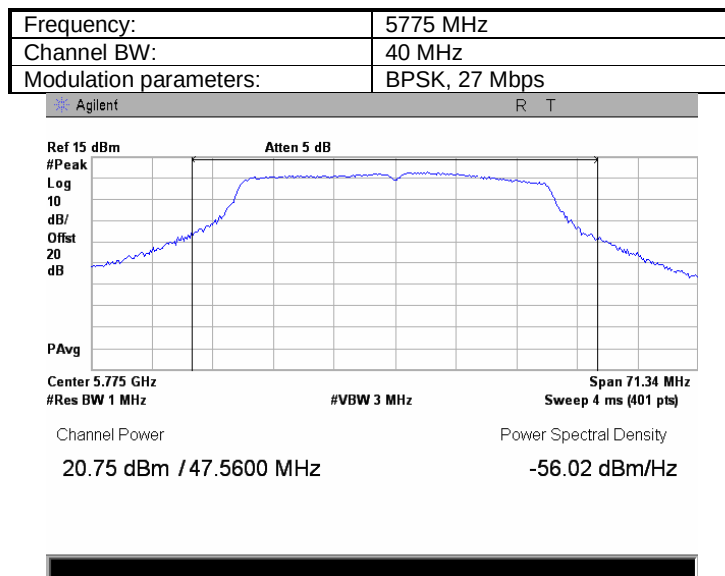


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.211 The 26 dB emission bandwidth

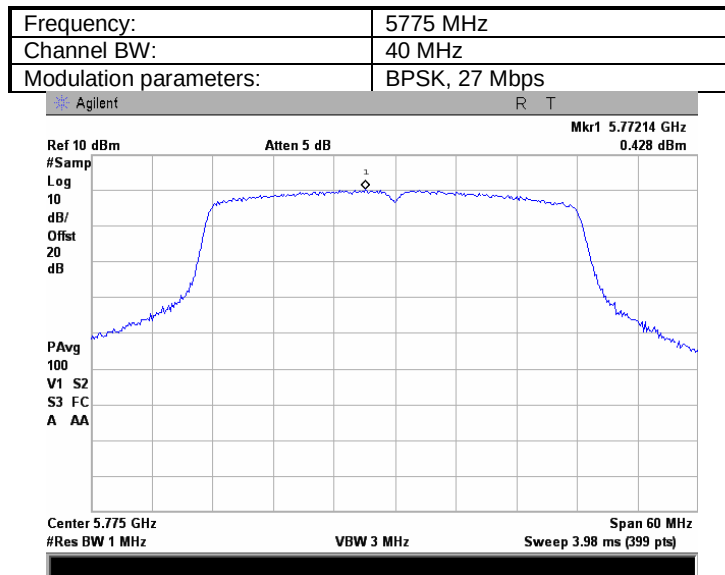


Plot 7.1.212 Peak output power

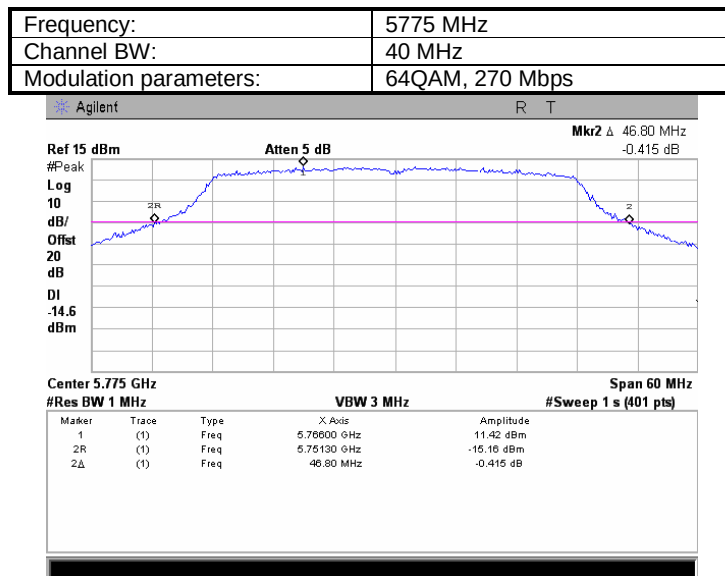


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.213 Peak spectral power density

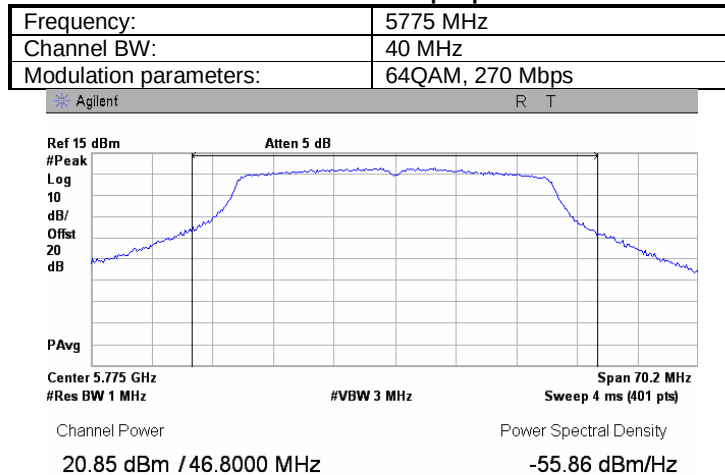


Plot 7.1.214 The 26 dB emission bandwidth

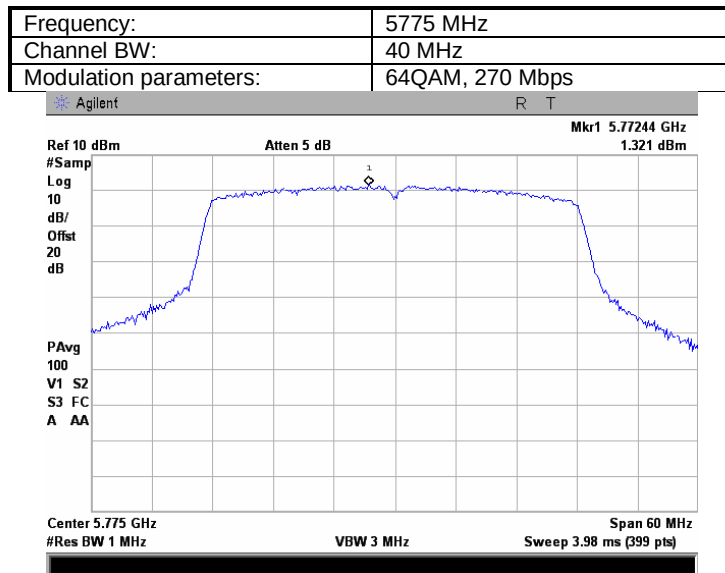


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.215 Peak output power

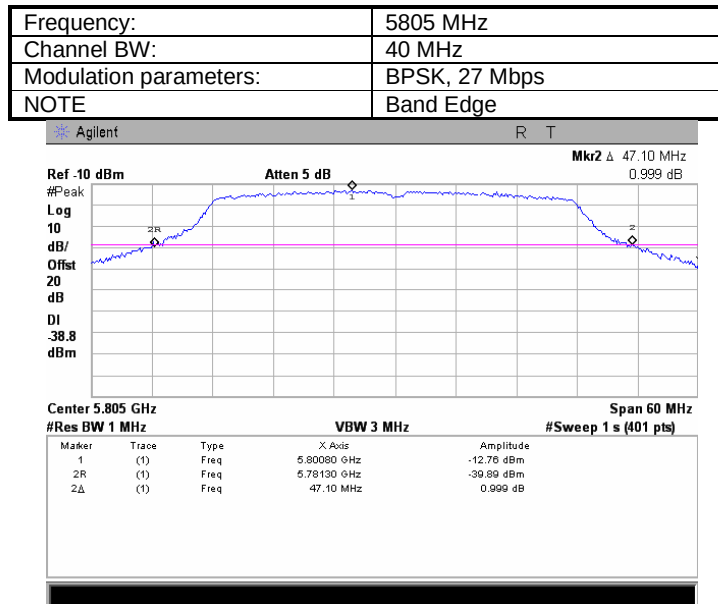


Plot 7.1.216 Peak spectral power density

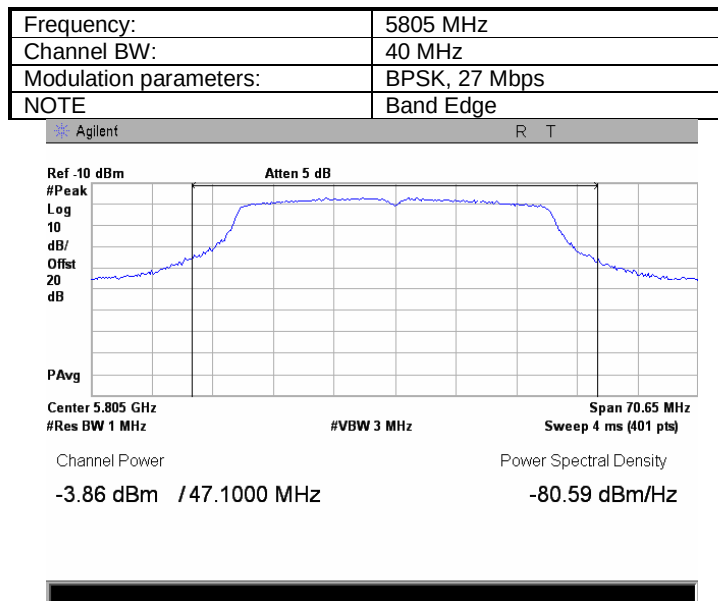


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.217 The 26 dB emission bandwidth

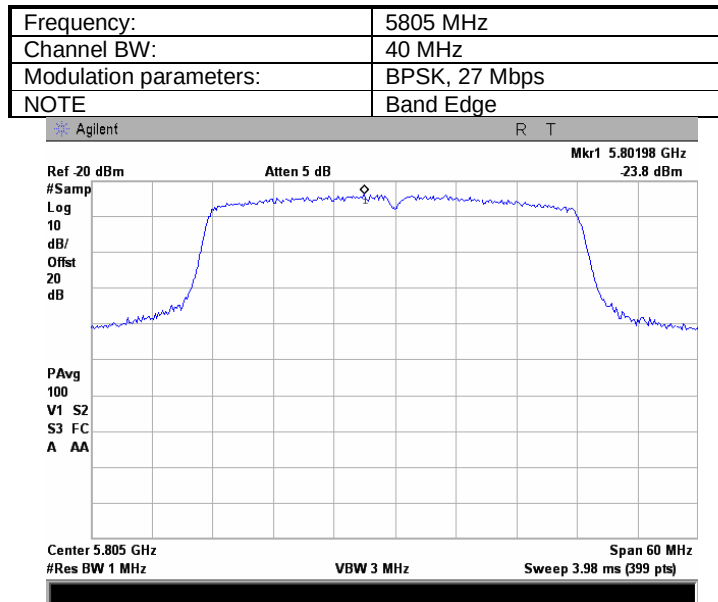


Plot 7.1.218 Peak output power

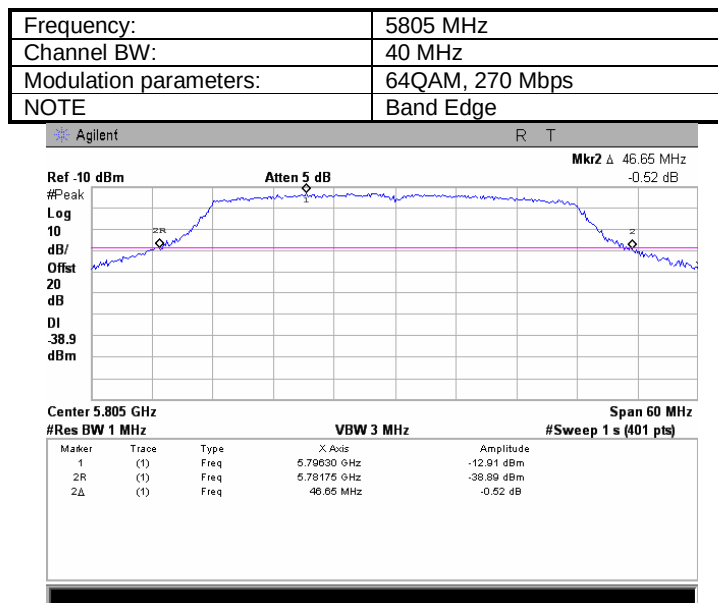


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.219 Peak spectral power density



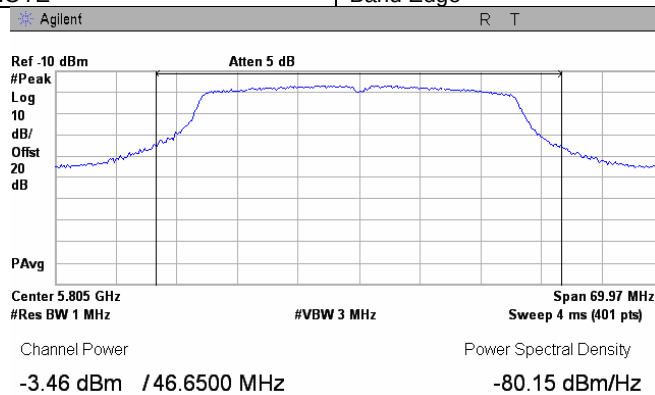
Plot 7.1.220 The 26 dB emission bandwidth



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

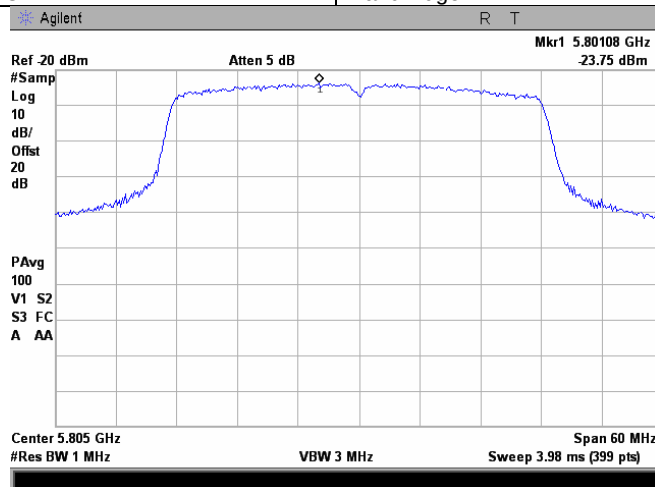
Plot 7.1.221 Peak output power

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



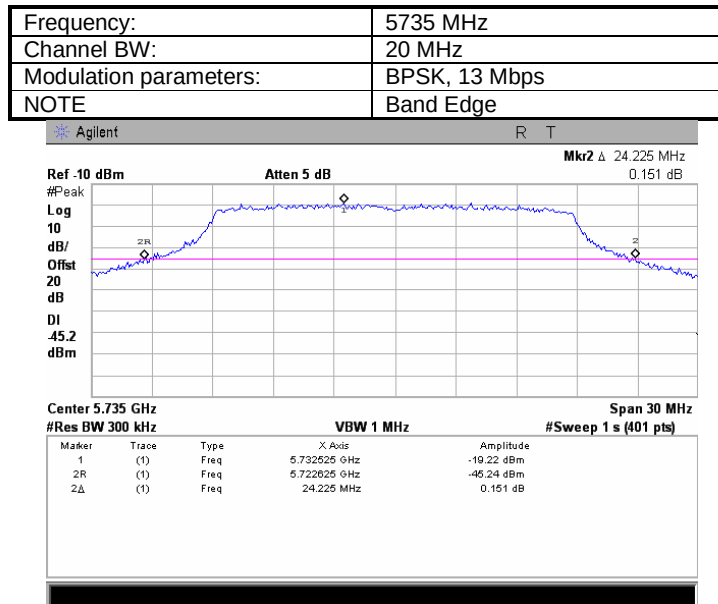
Plot 7.1.222 Peak spectral power density

Frequency:	5805 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

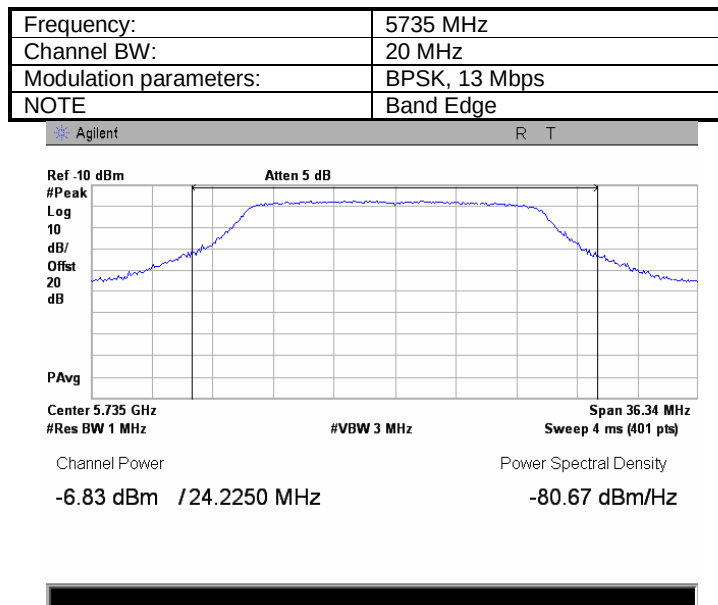


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.223 The 26 dB emission bandwidth



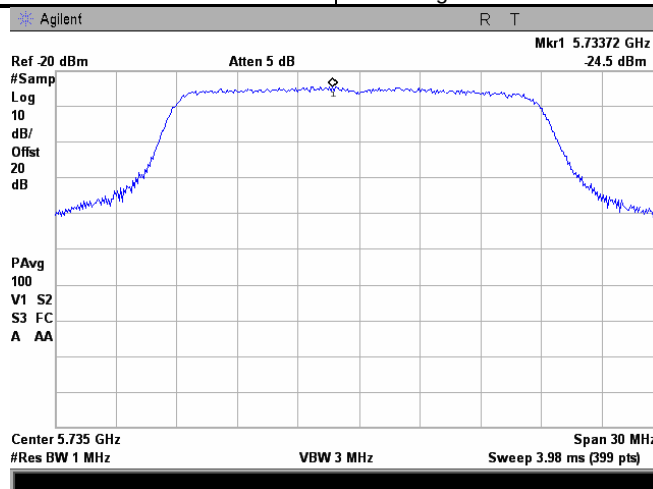
Plot 7.1.224 Peak output power



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

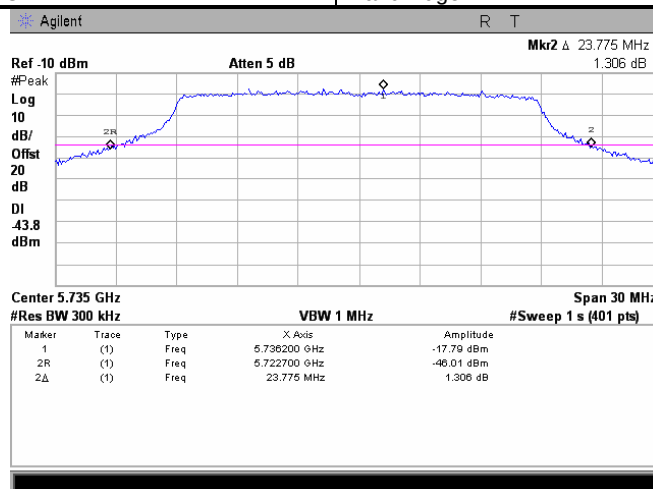
Plot 7.1.225 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	Band Edge



Plot 7.1.226 The 26 dB emission bandwidth

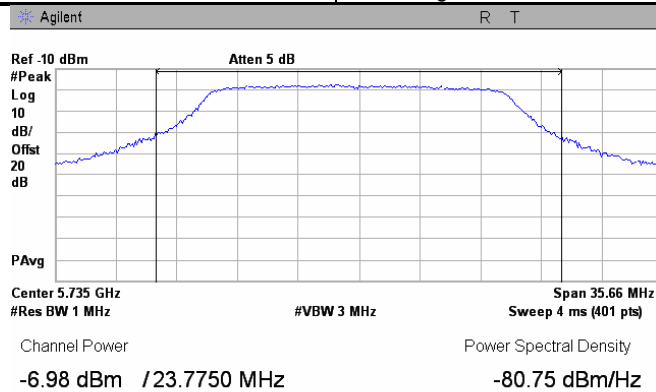
Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

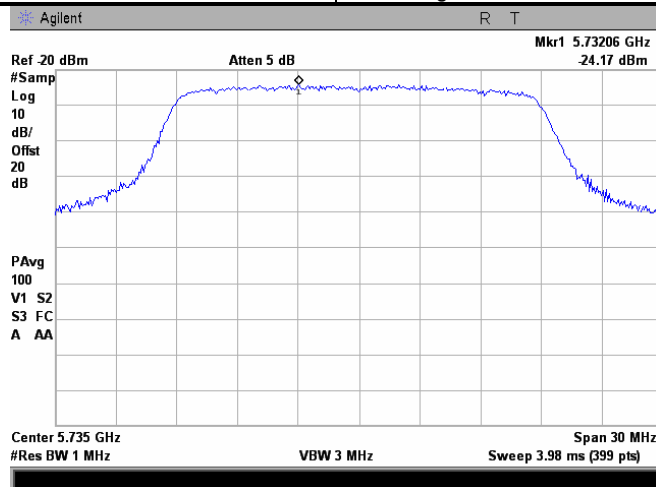
Plot 7.1.227 Peak output power

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge



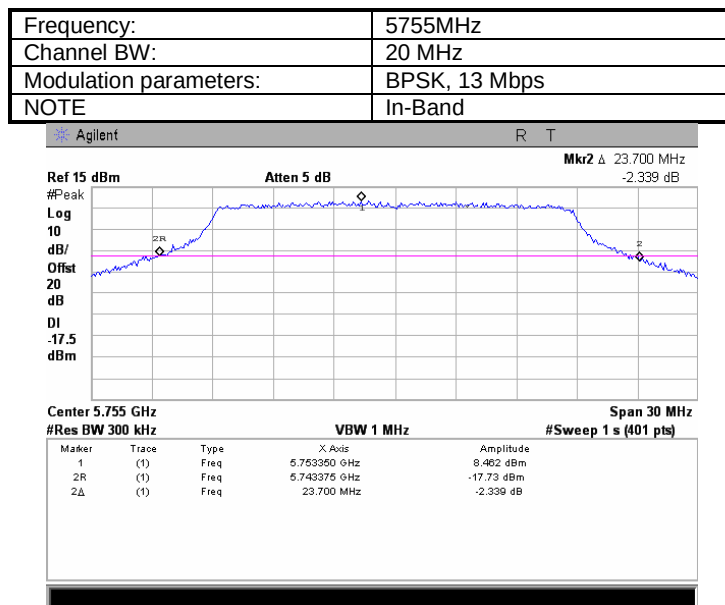
Plot 7.1.228 Peak spectral power density

Frequency:	5735 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	Band Edge

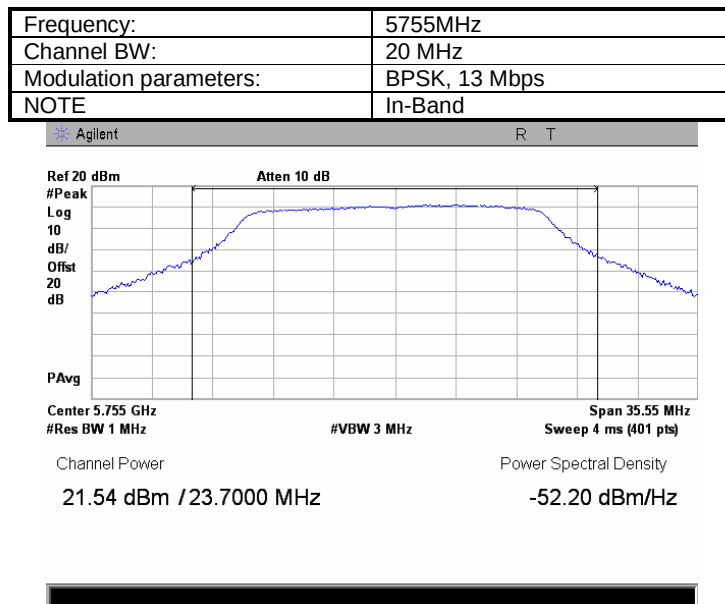


Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:	Compliance	Verdict:	PASS
Date:	3/24/2010		
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.229 The 26 dB emission bandwidth



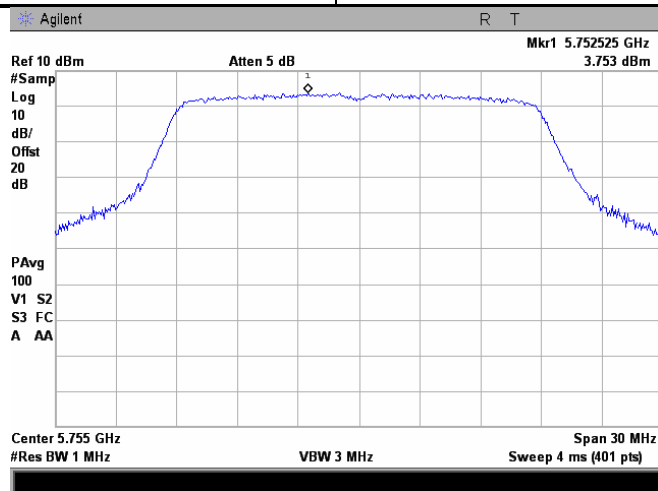
Plot 7.1.230 Peak output power



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

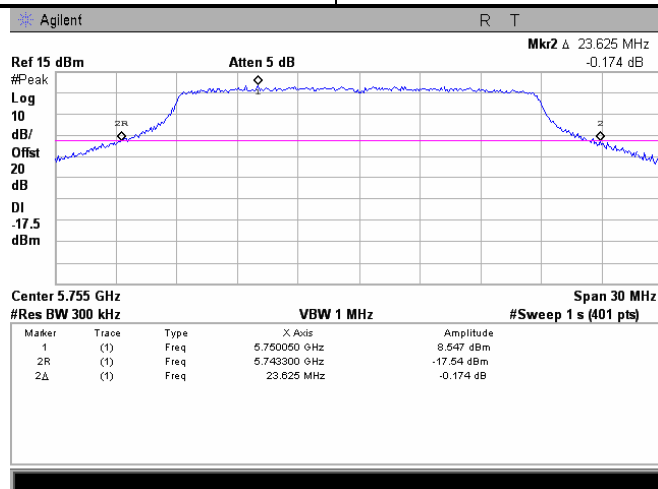
Plot 7.1.231 Peak spectral power density

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps
NOTE	In-Band



Plot 7.1.232 The 26 dB emission bandwidth

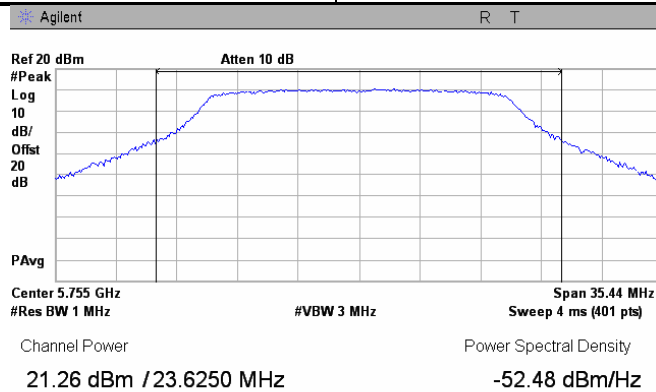
Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



Test specification:		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density	
Test procedure:		FCC Public Notice DA 02-2138, Appendix A	
Test mode:		Compliance	Verdict: PASS
Date:		3/24/2010	
Temperature: 24 °C	Air Pressure: 1012 hPa	Relative Humidity: 51 %	Power Supply: 120 VAC
Remarks: EUT with 27.9 dBi antenna assembly gain			

Plot 7.1.233 Peak output power

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band



Plot 7.1.234 Peak spectral power density

Frequency:	5755MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps
NOTE	In-Band

