

TEST REPORT

ACCORDING TO: FCC 47CFR part 15 subpart C § 15.247 and
RSS-210 Issue 7

FOR:

RadWin Ltd.

**Outdoor radio unit operating
in the 2.4 GHz band**

**Model: RADWIN 1000,
RADWIN 2000**

This report is in conformity with ISO/ IEC 17025. The "A2LA Accredited" symbol endorsement applies only to the tests and calibrations that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested. This test report shall not be reproduced in any form except in full with the written approval of Hermon Laboratories Ltd.

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1 Applicant information

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Telephone: +972 3766 2988
Fax: +972 3766 2922
E-mail: shlomo_weiss@radwin.com
Contact name: Mr. Shlomo Weiss

2 Equipment under test attributes

Product name: Outdoor radio unit operating in the 2.4 GHz band
Product type: Point to point transceiver
Model(s): 1) RADWIN 1000, 2) RADWIN 2000
Serial number: Prototype
Hardware version: 3
Software release: V.2.2
Receipt date 4/5/2009

3 Manufacturer information

Manufacturer name: RadWin Ltd.
Address: 32 Habarzel str., Tel Aviv 69710, Israel
Telephone: +972 3766 2988
Fax: +972 3766 2922
E-Mail: shlomo_weiss@radwin.com
Contact name: Mr. Shlomo Weiss

4 Test details

Project ID: 19579
Location: Hermon Laboratories Ltd. Harakevet Industrial Zone, Binyamina 30500, Israel
Test started: 4/5/2009
Test completed: 4/23/2009
Test specification(s): FCC 47CFR part 15:2008, subpart C §15.247; RSS-210 Issue 7, Annex 8

5 Tests summary

Test	Status
Transmitter characteristics	
FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth	Pass
FCC section 15.247(b)(3), RSS-210 section A8.4(4), Peak output power	Pass
FCC section 15.247(b)5, RSS-Gen section 5.5, RF exposure	Pass
FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions	Pass
FCC section 15.247(d), RSS-210 section A8.5, Radiated spurious emissions	Pass
Section 15.247(e), RSS-210 section A8.2(b), Peak power density	Pass
FCC section 15.207(a), RSS-Gen section 7.2.2, Conducted emission	Pass
FCC section 15.203, RSS-Gen section 7.1.4, Antenna requirement	Pass
RSS-Gen section 7.2.3.2, Receiver spurious emissions	Pass

Testing was completed against all relevant requirements of the test standard. The 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.

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

	Name and Title	Date	Signature
Tested by:	Mr. S. Samokha, test engineer	April 23, 2009	
Reviewed by:	Mrs. M. Cherniavsky, certification engineer	April 26, 2009	
Approved by:	Mr. M. Nikishin, EMC and Radio group leader	May 4, 2009	

6 EUT description

6.1 General information

The EUT, RADWIN 1000 / RADWIN 2000 is an outdoor radio unit (ODU). The power and the Ethernet communication are supplied by indoor unit (IDU) or PoE device. It has two antenna configurations – integrated and connectorized that can support dual pole antenna type. RADWIN 1000 activates one RF port and RADWIN 2000 – two ports. The EUT, model RADWIN 2000 was tested. The antennas used are 17.5 dBi flat integrated and 20 dBi flat external.

6.2 Ports and lines

Port type	Port description	Connected		Connector type	Q-ty	Cable type	Cable length, m	Indoor / outdoor
		From	To					
Power	-48 VDC	AC/DC adapter	IDU	Terminal block	1	unshielded	2	Indoor
Power	AC power	mains	AC/DC adapter	IEC 60320	1	unshielded	1	Indoor
RF	Antenna	EUT	antenna	N-type	2	coax	1	Outdoor
Signal	DC+ Ethernet	IDU	EUT	RJ45	1	FTP	20	Outdoor
Signal	Ethernet	IDU	Laptop	RJ45	1	shielded	1.5	Indoor

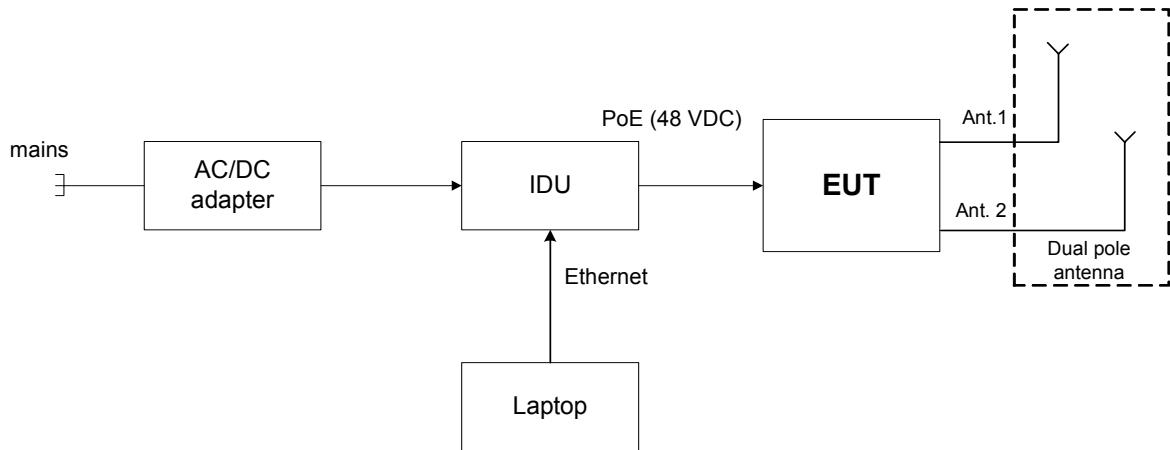
6.3 Support and test equipment

Description	Manufacturer	Model number	Serial number
Laptop	Dell	Latitude/D530	NA
IDU (for configuration with ODU)	RadWin Ltd.	IDU-E	DE2E2000123
AC/DC	YCL	WMB480042-5G	S0714002271

6.4 Changes made in the EUT

No changes were implemented.

6.5 Test configuration



6.6 Transmitter characteristics

Type of equipment						
<input checked="" type="checkbox"/>	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				
<input checked="" type="checkbox"/>	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		2400 – 2483.5 MHz				
Operating frequency range		2412 – 2462 MHz				
RF channel spacing		5 MHz, 10 MHz, 20 MHz				
Is transmitter output power variable?		No				
		X	Yes	continuous variable		
				stepped variable with step size		
				minimum RF power	NA	
External antenna connection		maximum RF power		external antenna	23.72 dBm	
unique coupling		<input checked="" type="checkbox"/> standard connector N type				
Antennas technical characteristics						
Type	Manufacturer	Model number		Gain		
Flat Panel – Dual polarized Integrated	Radwin Ltd.	RW-9612-2327INT		17.5 dBi		
Flat Panel – Dual polarized External	Radwin Ltd.	RW-9612-2427		19 dBi (20 dBi - 1 dB feeder loss)		
Transmitter 99% power bandwidth		Transmitter aggregate data rate/s, MBps			Type of modulation (OFDM)	
5 MHz		3.25 6.5, 9.75 13, 19.5 26, 29.5, 32.5			BPSK QPSK 16QAM 64QAM	
		10 MHz			BPSK QPSK 16QAM 64QAM	
		6.5 13, 19.5 26, 39 52, 58.5, 65				
		13 26, 39 52, 78 104, 117, 130		BPSK QPSK 16QAM 64QAM		
Modulating test signal (baseband)				OFDM		
Maximum transmitter duty cycle in normal use		40 %				
Transmitter duty cycle supplied for test		100 %				
Transmitter power source						
Battery	Nominal rated voltage	VDC	Battery type			
DC	Nominal rated voltage	48 VDC from IDU unit powered by 120 VAC				
AC mains	Nominal rated voltage	VAC	Frequency	Hz		
Common power source for transmitter and receiver		V	yes		no	

Table 6.6.1 Tested channel frequencies and maximum output power

Name	Low channel	Mid Low channel	Mid channel	Mid High channel	High channel
Frequency, MHz	2412	2427	2437	2447	2462
Output power, dBm					
5 MHz CBW	23.72	23.63	23.08	23.37	22.42
10 MHz CBW	23.21	22.88	23.04	22.74	22.08
20 MHz CBW	15.20	23.58	23.32	23.60	14.72

Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

7 Transmitter tests according to 47CFR part 15 subpart C and RSS-210 requirements

7.1 Minimum 6 dB bandwidth

7.1.1 General

This test was performed to measure 6 dB bandwidth of the EUT carrier frequency. Specification test limits are given in Table 7.1.1.

Table 7.1.1 The 6 dB bandwidth limits

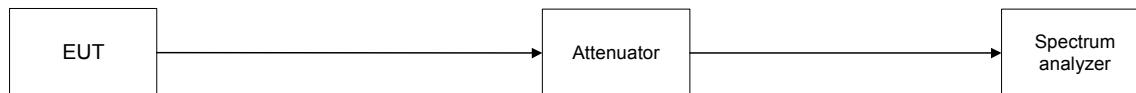
Assigned frequency, MHz	Modulation envelope reference points*, dBc	Minimum bandwidth, kHz
902.0 – 928.0		
2400.0 – 2483.5	6.0	
5725.0 – 5850.0		500.0

* - Modulation envelope reference points provided in terms of attenuation below the peak of modulated carrier.

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.
- 7.1.2.3 The transmitter minimum 6 dB bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in Table 7.1.2 and associated plot.

Figure 7.1.1 The 6 dB bandwidth test setup





Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/20/2009 8:43:34 AM	Relative Humidity:	38 %
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Power Supply:	120VAC
Remarks:			

Table 7.1.2 The 6 dB bandwidth test results

ASSIGNED FREQUENCY BAND: 2400 – 2483.5 MHz
 DETECTOR USED: Peak
 SWEEP MODE: Single
 SWEEP TIME: Auto
 RESOLUTION BANDWIDTH: 100 kHz
 VIDEO BANDWIDTH: 300 kHz
 MODULATION ENVELOPE REFERENCE POINTS: 6.0 dBc
 MODULATION: OFDM
 MODULATING SIGNAL: PRBS

Carrier frequency, MHz	Modulation	Bit Rate, Mbps	6 dB bandwidth, kHz	Limit, kHz	Margin, kHz	Verdict
5 MHz CBW						
2412.0	BPSK	3.25	4410.0	500	-3910.0	Pass
	64QAM	32.5	4410.0	500	-3910.0	Pass
2437.0	BPSK	3.25	4427.5	500	-3927.5	Pass
	64QAM	32.5	4340.0	500	-3840.0	Pass
2462.0	BPSK	3.25	4427.5	500	-3927.5	Pass
	64QAM	32.5	4462.5	500	-3962.5	Pass
10 MHz CBW						
2412.0	BPSK	6.5	8820.0	500	-8320.0	Pass
	64QAM	65	8730.0	500	-8230.0	Pass
2437.0	BPSK	3.25	8880.0	500	-8380.0	Pass
	64QAM	32.5	8760.0	500	-8260.0	Pass
2462.0	BPSK	6.5	8820.0	500	-8320.0	Pass
	64QAM	65	8790.0	500	-8290.0	Pass
20MHz CBW						
2412.0	BPSK	13	17750.0	500	-17250.0	Pass
	64QAM	130	17700.0	500	-17200.0	Pass
2427.0	BPSK	3.25	17450.0	500	-16950.0	Pass
	64QAM	32.5	17600.0	500	-17100.0	Pass
2437.0	BPSK	3.25	17200.0	500	-16700.0	Pass
	64QAM	32.5	17600.0	500	-17100.0	Pass
2447.0	BPSK	13	17750.0	500	-17250.0	Pass
	64QAM	130	17700.0	500	-17200.0	Pass
2462.0	BPSK	13	17650.0	500	-17150.0	Pass
	64QAM	130	17700.0	500	-17200.0	Pass

Reference numbers of test equipment used

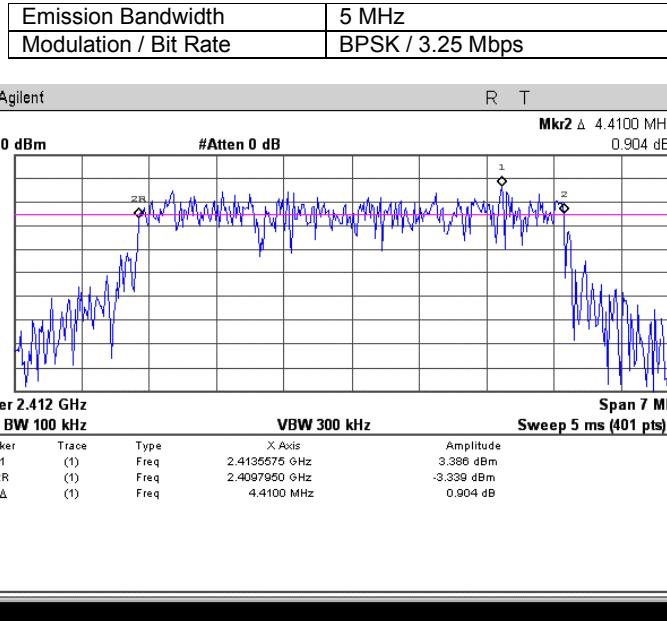
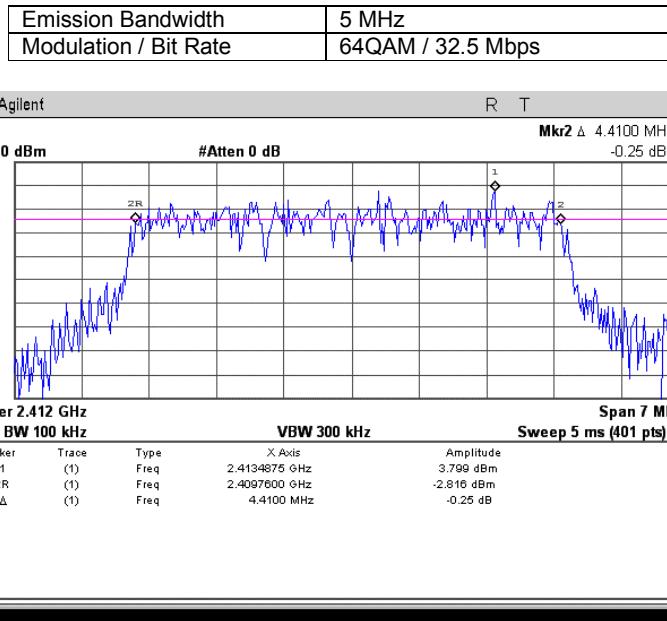
HL 2909	HL 2952	HL 3439	HL 3441				
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Full description is given in Appendix A.



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Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.1 The 6 dB bandwidth test result at low frequency**Plot 7.1.2 The 6 dB bandwidth test result at low frequency**

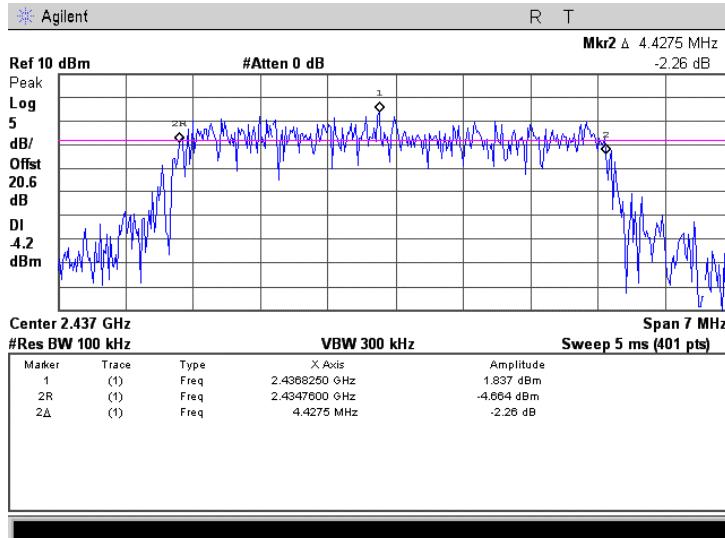


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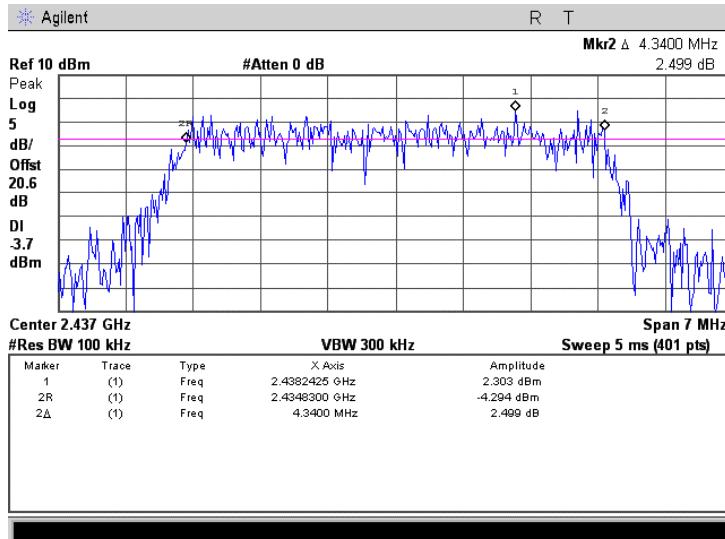
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Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.3 The 6 dB bandwidth test result at mid frequency

Emission Bandwidth	5 MHz
Modulation / Bit Rate	BPSK / 3.25 Mbps

**Plot 7.1.4 The 6 dB bandwidth test result at mid frequency**

Emission Bandwidth	5 MHz
Modulation / Bit Rate	64QAM / 32.5 Mbps



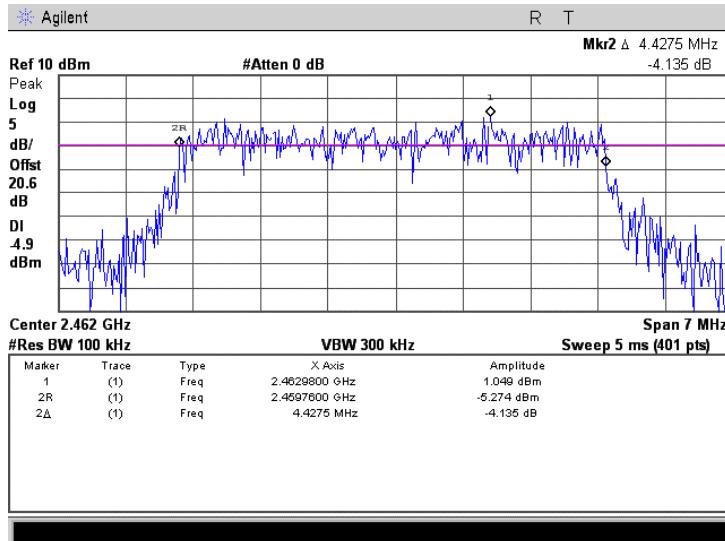


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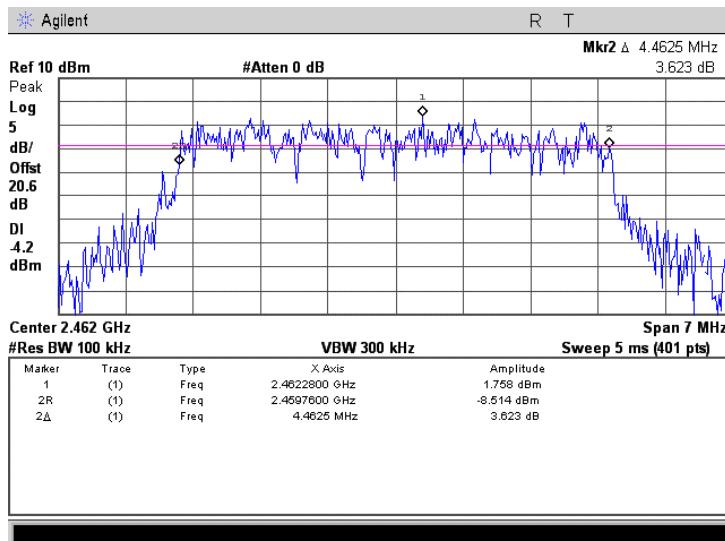
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Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.5 The 6 dB bandwidth test result at high frequency

Emission Bandwidth	5 MHz
Modulation / Bit Rate	BPSK / 3.25 Mbps

**Plot 7.1.6 The 6 dB bandwidth test result at high frequency**

Emission Bandwidth	5 MHz
Modulation / Bit Rate	64QAM / 32.5 Mbps



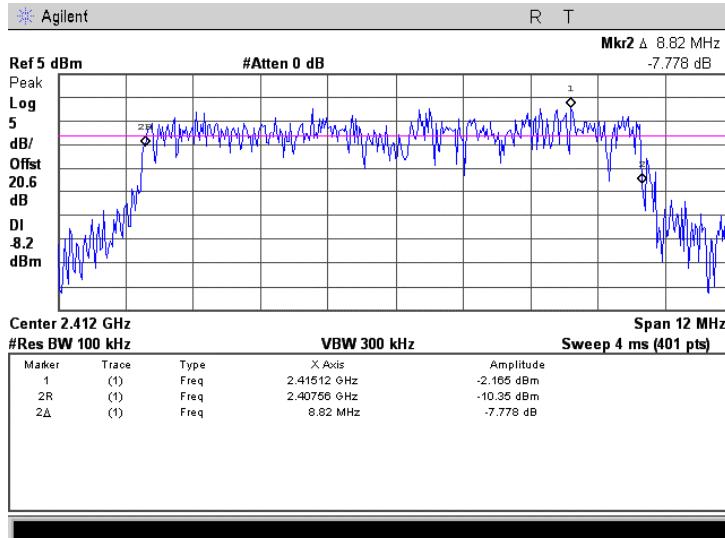


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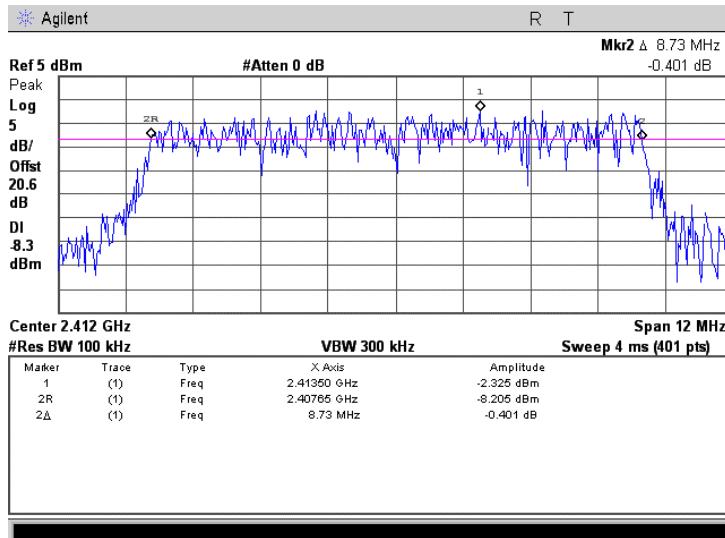
Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.7 The 6 dB bandwidth test result at low frequency

Emission Bandwidth	10MHz
Modulation / Bit Rate	BPSK / 6.5 Mbps

**Plot 7.1.8 The 6 dB bandwidth test result at low frequency**

Emission Bandwidth	10 MHz
Modulation / Bit Rate	64QAM / 65 Mbps

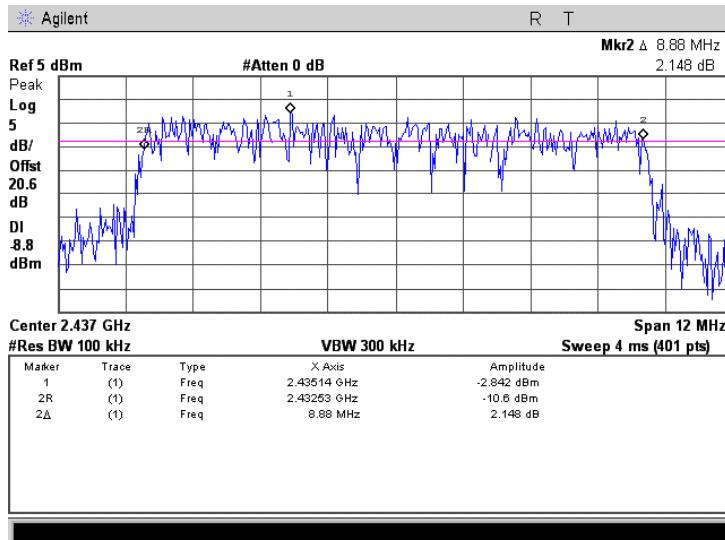




Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
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Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

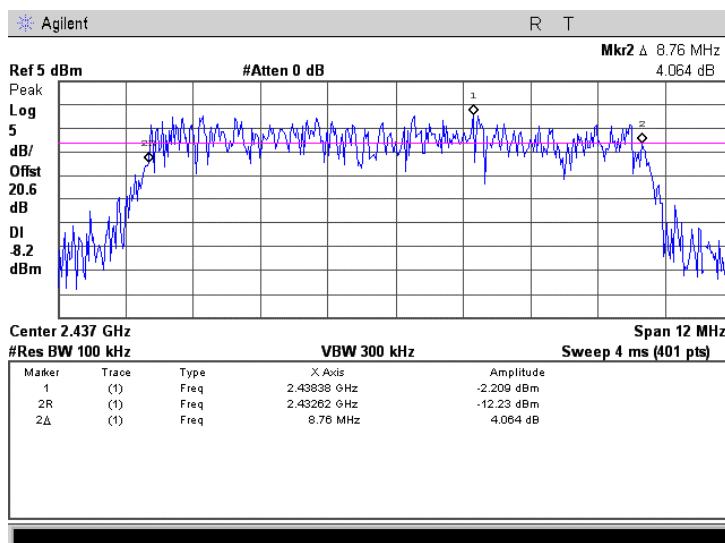
Plot 7.1.9 The 6 dB bandwidth test result at mid frequency

Emission Bandwidth	10MHz
Modulation / Bit Rate	BPSK / 6.5 Mbps



Plot 7.1.10 The 6 dB bandwidth test result at mid frequency

Emission Bandwidth	10 MHz
Modulation / Bit Rate	64QAM / 65 Mbps



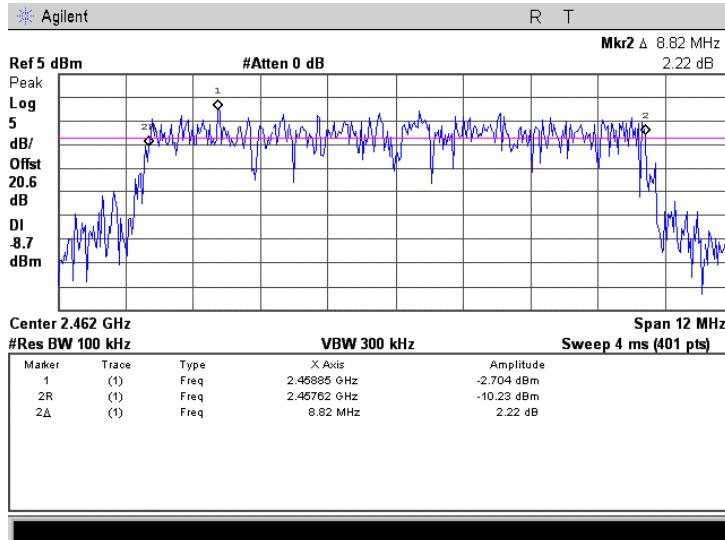


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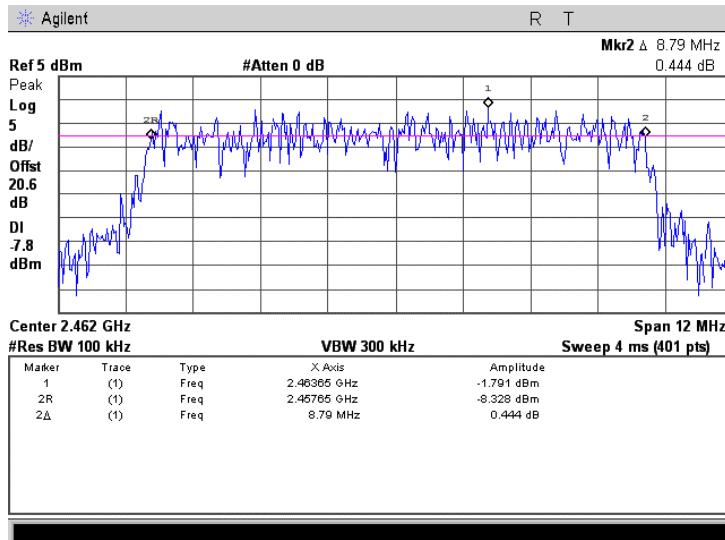
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Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/20/2009 8:43:34 AM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.11 The 6 dB bandwidth test result at high frequency

Emission Bandwidth	10MHz
Modulation / Bit Rate	BPSK / 6.5 Mbps

**Plot 7.1.12 The 6 dB bandwidth test result at high frequency**

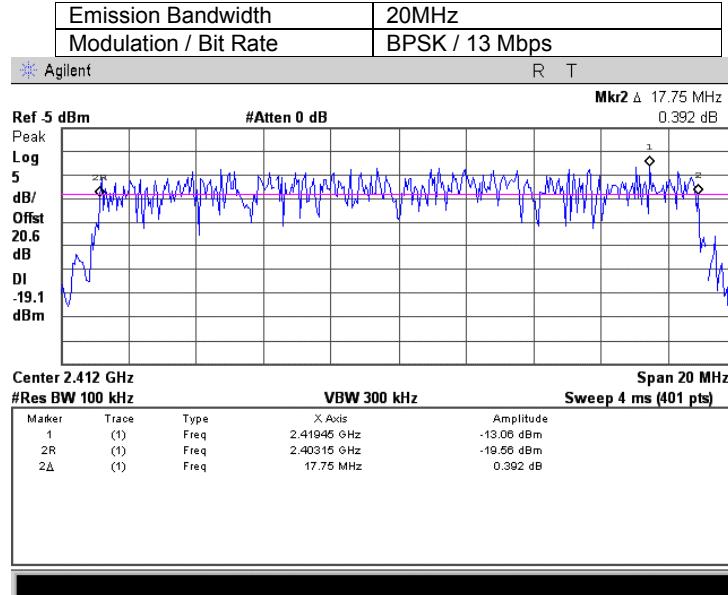
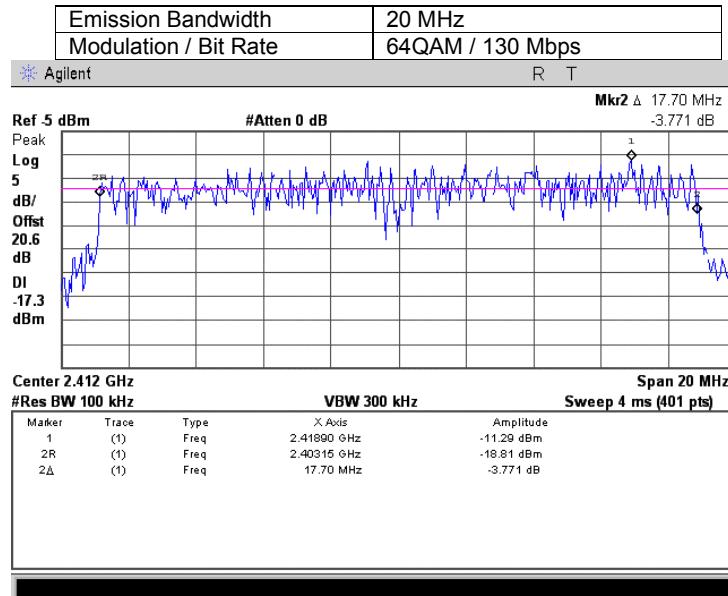
Emission Bandwidth	10 MHz
Modulation / Bit Rate	64QAM / 65 Mbps





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Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.13 The 6 dB bandwidth test result at low frequency**Plot 7.1.14 The 6 dB bandwidth test result at low frequency**

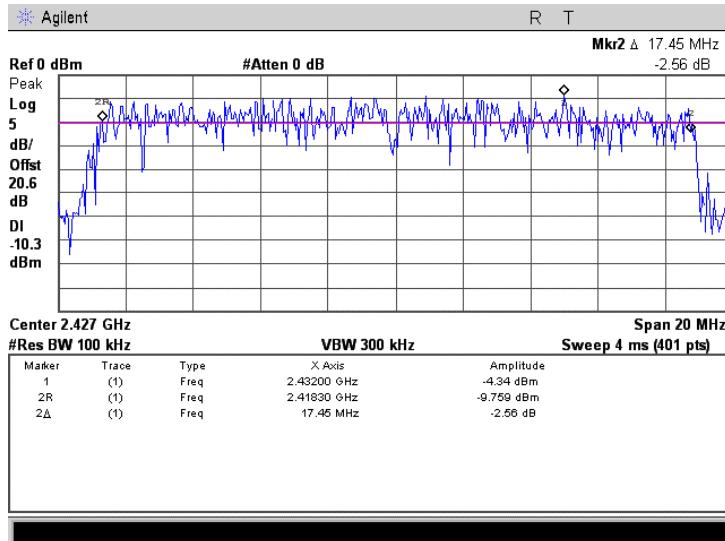


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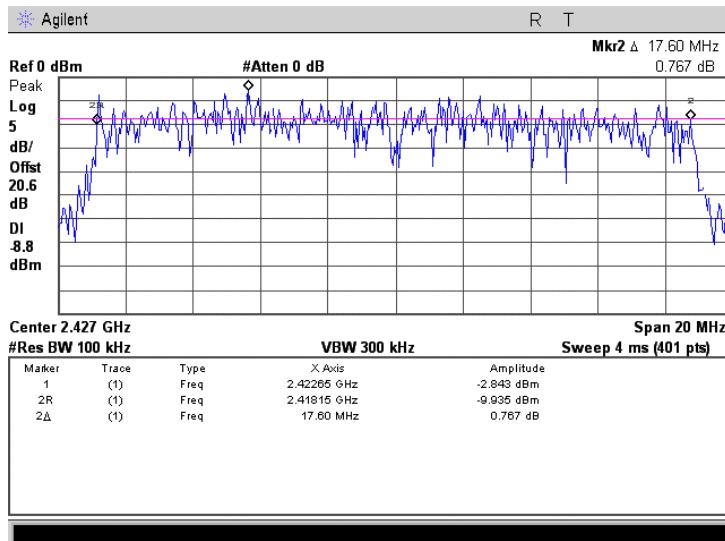
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Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/20/2009 8:43:34 AM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.15 The 6 dB bandwidth test result at mid Low frequency

Emission Bandwidth	20MHz
Modulation / Bit Rate	BPSK / 13 Mbps

**Plot 7.1.16 The 6 dB bandwidth test result at mid Low frequency**

Emission Bandwidth	20 MHz
Modulation / Bit Rate	64QAM / 130 Mbps



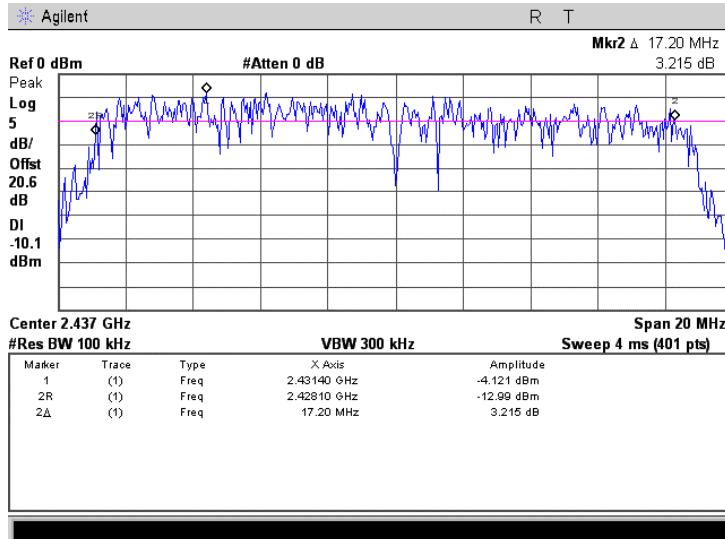


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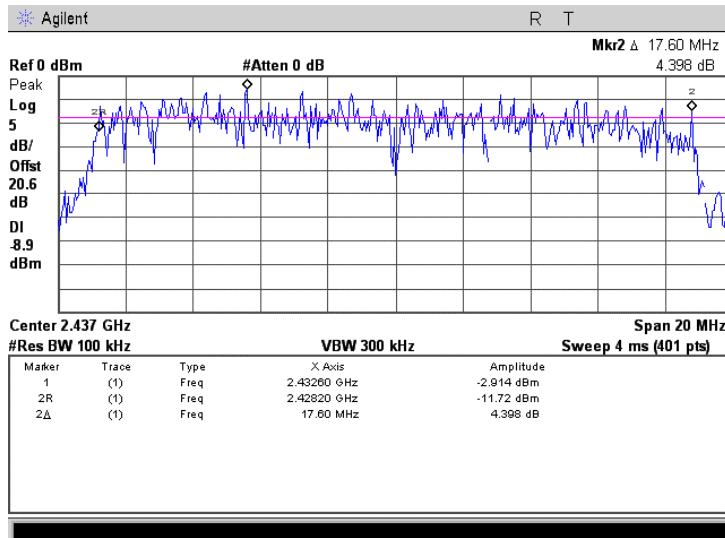
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Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/20/2009 8:43:34 AM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.17 The 6 dB bandwidth test result at mid frequency

Emission Bandwidth	20MHz
Modulation / Bit Rate	BPSK / 13 Mbps

**Plot 7.1.18 The 6 dB bandwidth test result at mid frequency**

Emission Bandwidth	20 MHz
Modulation / Bit Rate	64QAM / 130 Mbps



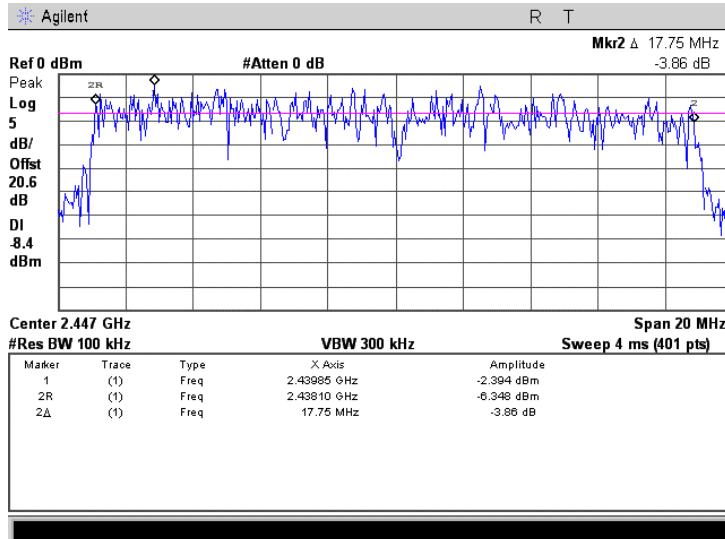


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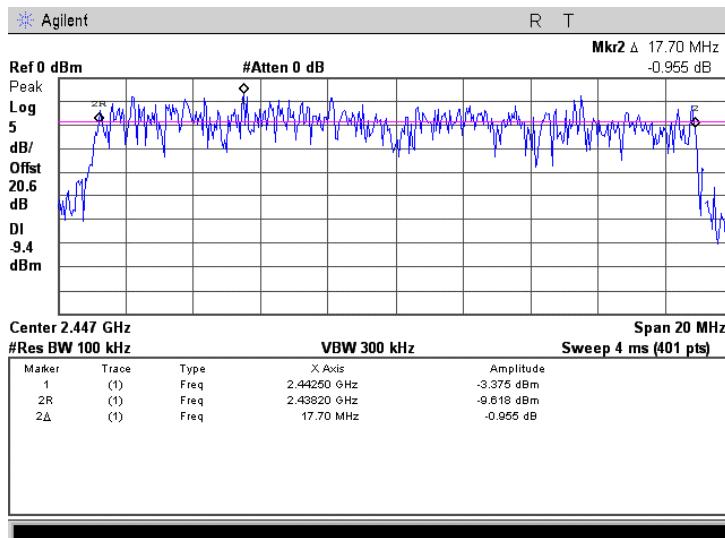
Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict: PASS	
Date & Time:	4/20/2009 8:43:34 AM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.19 The 6 dB bandwidth test result at mid High frequency

Emission Bandwidth	20MHz
Modulation / Bit Rate	BPSK / 13 Mbps

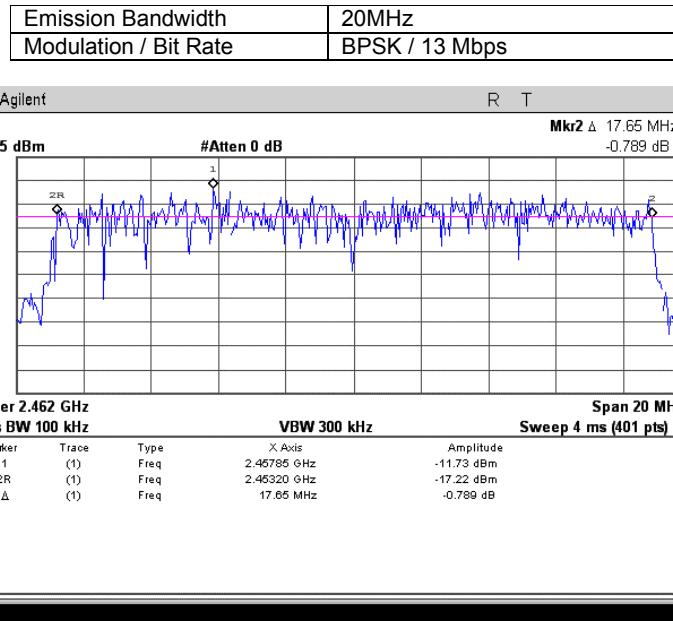
**Plot 7.1.20 The 6 dB bandwidth test result at mid High frequency**

Emission Bandwidth	20 MHz
Modulation / Bit Rate	64QAM / 130 Mbps

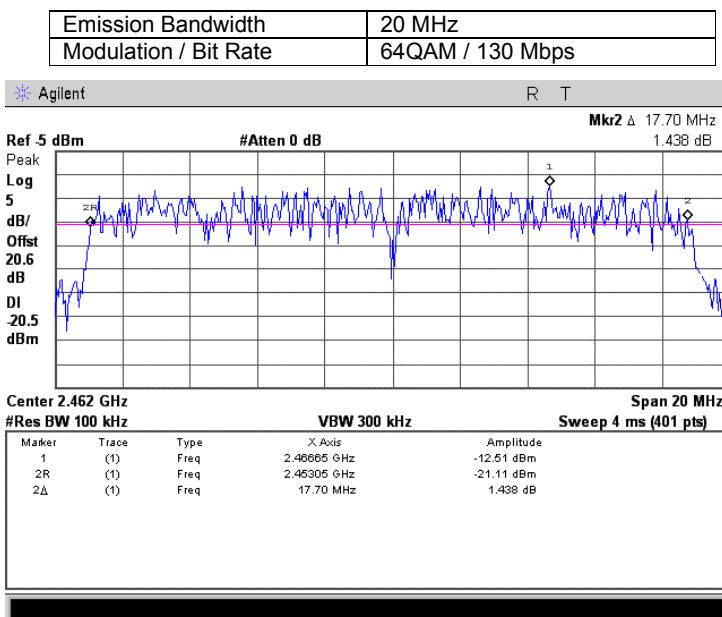


Test specification:	FCC section 15.247(a)(2), RSS-210 section A8.2(a), 6 dB bandwidth		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(a)(2)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/20/2009 8:43:34 AM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.1.21 The 6 dB bandwidth test result at high frequency



Plot 7.1.22 The 6 dB bandwidth test result at high frequency





HERMON LABORATORIES

Test specification:	FCC section 15.247(b)(3), RSS-210 section A8.4(4), Peak output power		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(b), Option 2, Method #3		
Test mode:	Compliance	Verdict:	
Date & Time:	4/22/2009 8:38:21 AM	PASS	
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

7.2 Peak output power

7.2.1 General

This test was performed to measure the maximum peak output power at the transmitter RF antenna connector. Specification test limits are given in Table 7.2.1.

Table 7.2.1 Peak output power limits

Assigned frequency range, MHz	Maximum antenna gain, dBi	Peak output power*	
		W	dBm
902.0 – 928.0			
2400.0 – 2483.5	6.0	1.0	30.0
5725.0 – 5850.0			

*- If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power limit shall be reduced below the stated value as follows:

by 1 dB for every 3 dB that the directional gain of antenna exceeds 6 dBi for fixed point-to-point transmitters operate in 2400-2483.5 MHz band;

without any corresponding reduction for fixed point-to-point transmitters operate in 5725-5850 MHz band; by the amount in dB that the directional gain of antenna exceeds 6 dBi for the rest of transmitters.

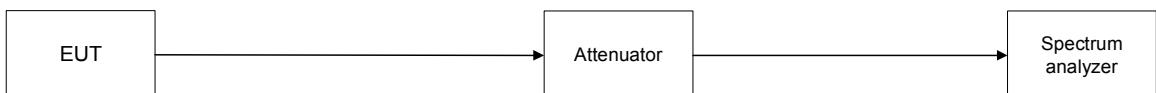
7.2.2 Test procedure

7.2.2.1 The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.

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

7.2.2.3 The resolution bandwidth of spectrum analyzer was set wider than 6 dB bandwidth of the EUT and the maximum peak output power was measured as provided in Table 7.2.2 and associated plots.

Figure 7.2.1 Peak output power test setup





Test specification:	FCC section 15.247(b)(3), RSS-210 section A8.4(4), Peak output power		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(b), Option 2, Method #3		
Test mode:	Compliance	Verdict:	
Date & Time:	4/22/2009 8:38:21 AM	PASS	
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Table 7.2.2 Peak output power test results

ASSIGNED FREQUENCY: 2400.0 – 2483.5 MHz

MODULATION: OFDM

TRANSMITTER OUTPUT POWER SETTINGS: Maximum

DETECTOR USED: Peak

Modulation, Bit rate, Mbps	Power meter reading, dBm		Total peak output power, dBm**	Limit, dBm	Margin*, dBm	Verdict
	Antenna 1	Antenna 2				
5 MHz BW, Low channel						
BPSK, 3.25	20.94	20.44	23.71	25.67	-1.96	Pass
64QAM, 32.5	20.43	20.98	23.72	25.67	-1.95	Pass
5 MHz BW, Mid Low channel						
BPSK, 3.25	20.65	20.59	23.63	25.67	-2.04	Pass
64QAM, 32.5	20.29	20.22	23.27	25.67	-2.40	Pass
5 MHz BW, Mid channel						
BPSK, 3.25	20.09	19.84	22.98	25.67	-2.69	Pass
64QAM, 32.5	19.82	20.31	23.08	25.67	-2.59	Pass
5 MHz BW, Mid High channel						
BPSK, 3.25	20.41	20.01	23.22	25.67	-2.45	Pass
64QAM, 32.5	20.39	20.33	23.37	25.67	-2.30	Pass
5 MHz BW, High channel						
BPSK, 3.25	19.43	19.35	22.40	25.67	-3.27	Pass
64QAM, 32.5	19.50	19.32	22.42	25.67	-3.25	Pass
10 MHz BW, Low channel						
BPSK, 6.5	20.49	19.73	23.14	25.67	-2.53	Pass
64QAM, 65	20.49	19.89	23.21	25.67	-2.46	Pass
10 MHz BW, Mid Low channel						
BPSK, 6.5	19.93	19.81	22.88	25.67	-2.79	Pass
64QAM, 65	19.56	20.04	22.82	25.67	-2.85	Pass
10 MHz BW, Mid channel						
BPSK, 6.5	19.35	19.83	22.61	25.67	-3.06	Pass
64QAM, 65	20.02	20.04	23.04	25.67	-2.63	Pass
10 MHz BW, Mid High channel						
BPSK, 6.5	19.81	19.36	22.60	25.67	-3.07	Pass
64QAM, 65	19.77	19.69	22.74	25.67	-2.93	Pass
10 MHz BW, High channel						
BPSK, 6.5	19.06	19.03	22.06	25.67	-3.61	Pass
64QAM, 65	19.24	18.90	22.08	25.67	-3.59	Pass

* - Margin = Peak output power – specification limit.

** - The total peak output power is the sum of power, measured at 2 antenna outputs

NOTE: Limit was calculated according to antenna assembly gain of 19 dBi. Only one power setting applied using different antenna types.



Test specification:	FCC section 15.247(b)(3), RSS-210 section A8.4(4), Peak output power		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(b), Option 2, Method #3		
Test mode:	Compliance	Verdict:	
Date & Time:	4/22/2009 8:38:21 AM	PASS	
Temperature: 24.7 °C	Air Pressure: 1013 hPa	Relative Humidity: 45 %	Power Supply: 120VAC
Remarks:			

Table 7.2.2. Peak output power test results (continued)

ASSIGNED FREQUENCY:

2400.0 – 2483.5 MHz

MODULATION:

OFDM

TRANSMITTER OUTPUT POWER SETTINGS:

Maximum

DETECTOR USED:

Peak

Modulation, Bit rate, Mbps	Power meter reading, dBm		Total peak output power, dBm**	Limit, dBm	Margin*, dBm	Verdict
	Antenna 1	Antenna 2				
20 MHz BW, Low channel						
BPSK, 13	12.32	12.06	15.20	25.67	-10.47	Pass
64QAM, 130	11.87	12.11	15.00	25.67	-10.67	Pass
20 MHz BW, Mid Low channel						
BPSK, 13	20.91	20.20	23.58	25.67	-2.09	Pass
64QAM, 130	20.42	20.28	23.36	25.67	-2.31	Pass
20 MHz BW, Mid channel						
BPSK, 13	20.34	20.28	23.32	25.67	-2.35	Pass
64QAM, 130	20.12	20.07	23.11	25.67	-2.56	Pass
20 MHz BW, Mid High channel						
BPSK, 13	20.54	20.63	23.60	25.67	-2.07	Pass
64QAM, 130	19.99	20.00	23.01	25.67	-2.66	Pass
20 MHz BW, High channel						
BPSK, 13	11.78	11.45	14.63	25.67	-11.04	Pass
64QAM, 130	11.59	11.82	14.72	25.67	-10.95	Pass

* - Margin = Peak output power – specification limit.

** - The total peak output power is the sum of power, measured at 2 antenna outputs

NOTE: Limit was calculated according to antenna assembly gain of 19 dBi. Only one power setting applied using different antenna types.

Reference numbers of test equipment used

HL 3174	HL 3176	HL 3179	HL 3301	HL 3302			
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Full description is given in Appendix A.



HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

7.3 Spurious emissions at RF antenna connector

7.3.1 General

This test was performed to measure spurious emissions at RF antenna connector. Specification test limits are given in Table 7.3.1.

Table 7.3.1 Spurious emission limits

Frequency*, MHz	Attenuation below carrier*, dBc
0.009 – 10 th harmonic	20.0 (30.0)

* - The above limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

** - Spurious emission limit is provided in terms of attenuation below the peak of modulated carrier measured with the same resolution bandwidth.

7.3.2 Test procedure

- 7.3.2.1 The EUT was set up as shown in Figure 7.3.1, energized and its proper operation was checked.
- 7.3.2.2 The EUT was adjusted to produce maximum available to end user RF output power.
- 7.3.2.3 The highest emission level within the authorized band was measured.
- 7.3.2.4 The spurious emission was measured with spectrum analyzer as provided in Table 7.3.2 and associated plots and referenced to the highest emission level measured within the authorized band.

Figure 7.3.1 Spurious emission test setup

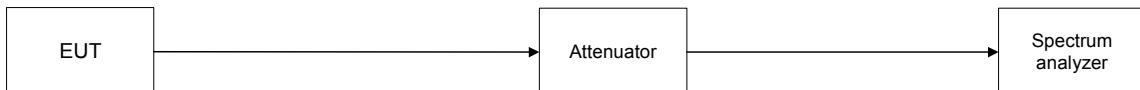
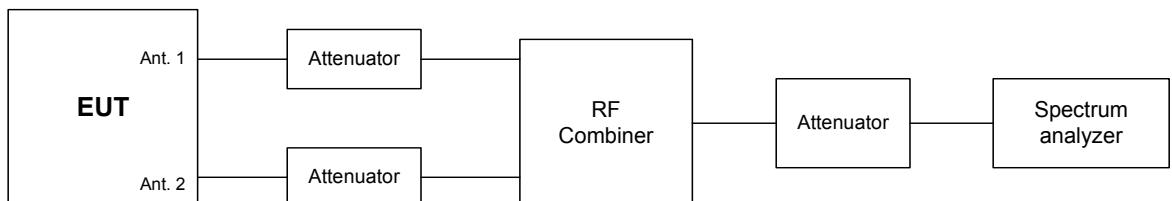


Figure 7.3.2 Spurious emission test setup, combined RF outputs testing





Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Table 7.3.2 Spurious emission test results

ASSIGNED FREQUENCY RANGE: 2400 – 2483.5 MHz
 INVESTIGATED FREQUENCY RANGE: 0.009 – 25000 MHz
 DETECTOR USED: Peak
 RESOLUTION BANDWIDTH: 100 kHz
 VIDEO BANDWIDTH: 300 kHz
 MODULATION: OFDM
 MODULATING SIGNAL: BPSK (low, mid and high channels)
 BIT RATE: 3.25 Mbps (low, mid and high channels)
 TRANSMITTER OUTPUT POWER SETTINGS: Maximum
 TRANSMITTER OUTPUT POWER: According to Peak output power test result

Frequency, MHz	Spurious emission, dBm	Emission at carrier, dBm	Attenuation below carrier, dBc	Limit, dBc	Margin, dB*	Verdict
Low carrier frequency						
No spurious emissions were found						Pass
Mid carrier frequency						
No spurious emissions were found						Pass
High carrier frequency						
No spurious emissions were found						Pass

*- Margin = Attenuation below carrier – specification limit.

Reference numbers of test equipment used

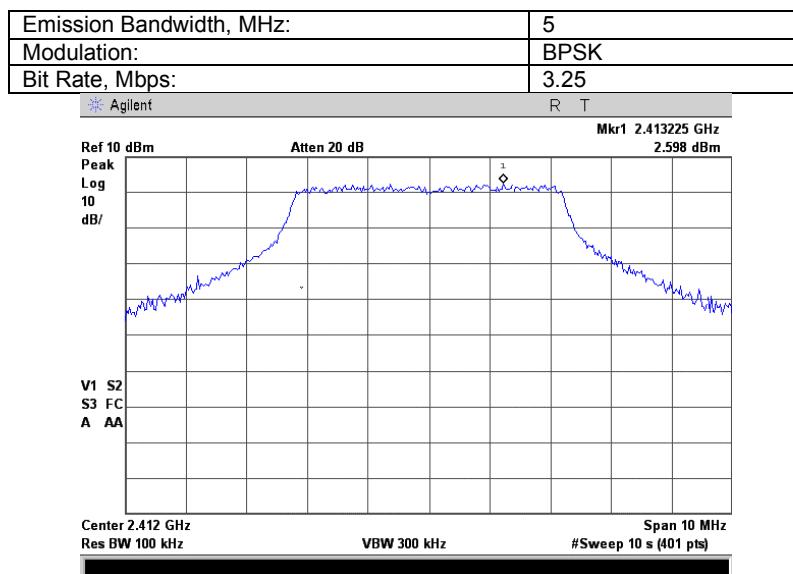
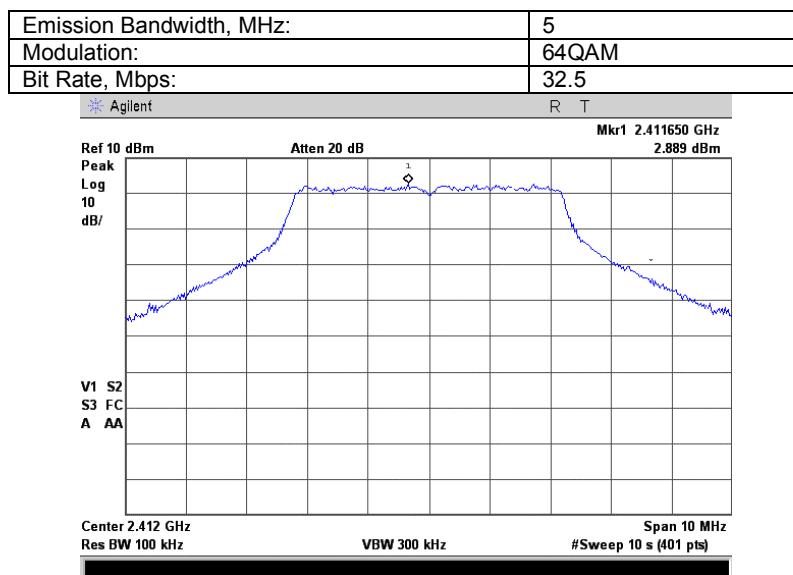
HL 2013	HL 2909	HL 2952	HL 3439	HL 3441	HL 3472	HL 3473	HL
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Full description is given in Appendix A.



HERMON LABORATORIES

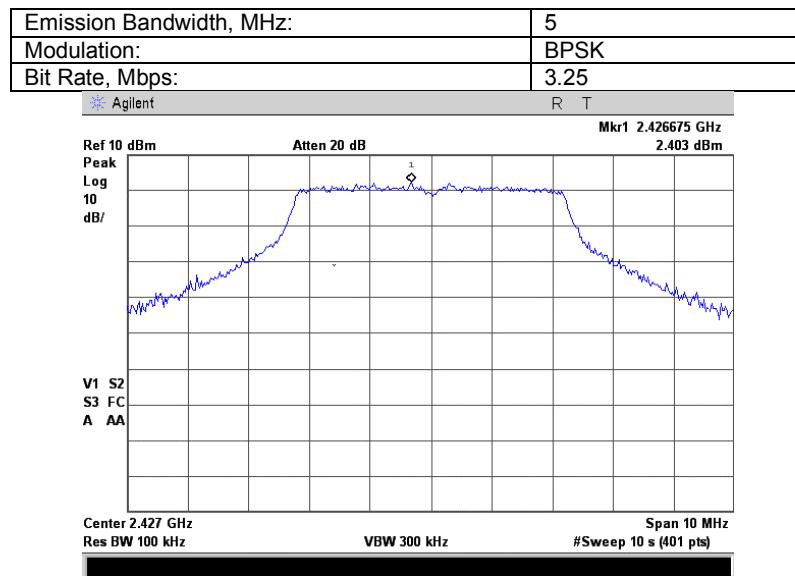
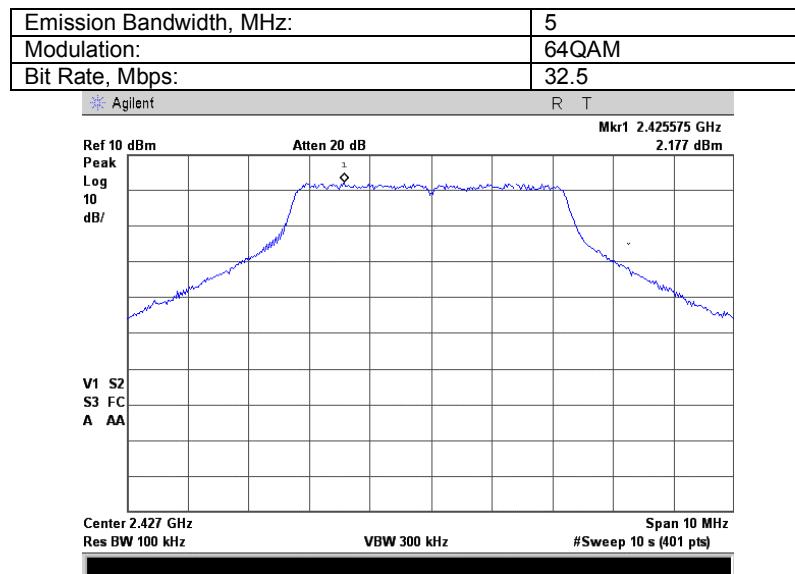
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.1 The highest emission level within the assigned band at low carrier frequency 2412 MHz, individual RF output (Antenna 2)**Plot 7.3.2 The highest emission level within the assigned band at low carrier frequency 2412 MHz, individual RF output (Antenna 2)**



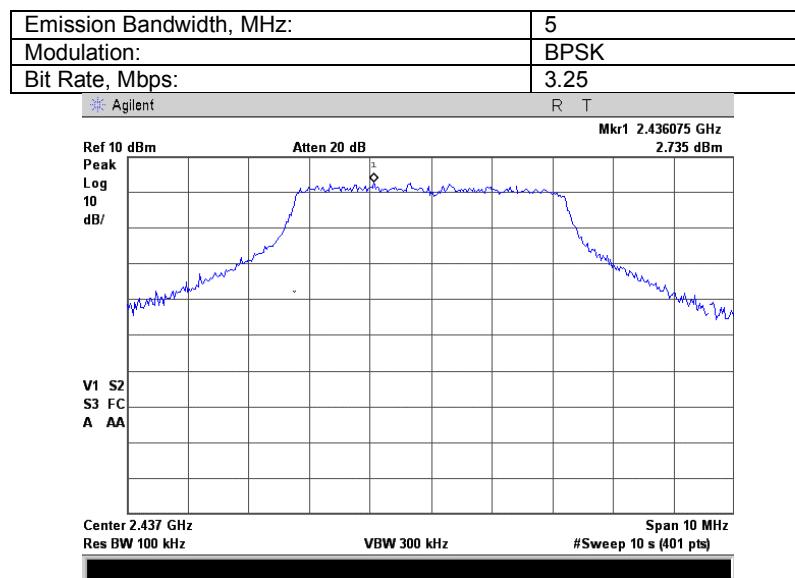
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

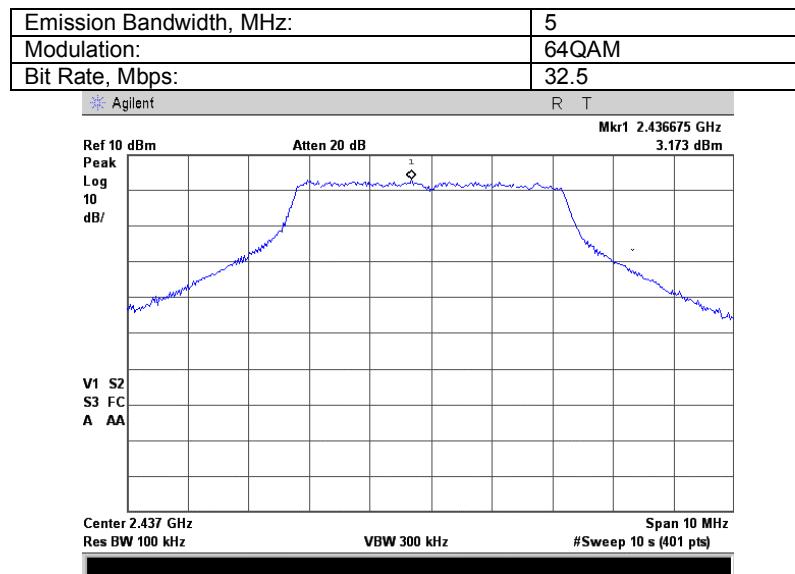
Plot 7.3.3 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)**Plot 7.3.4 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)**

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.5 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

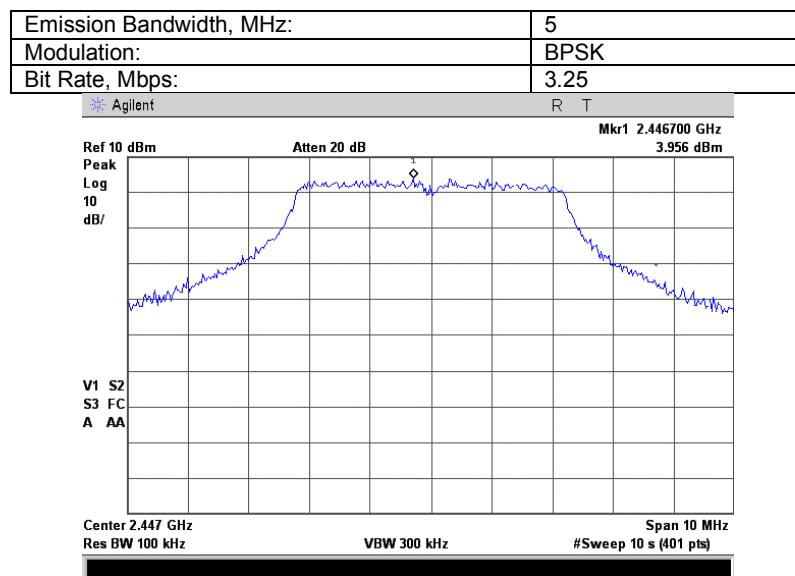


Plot 7.3.6 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

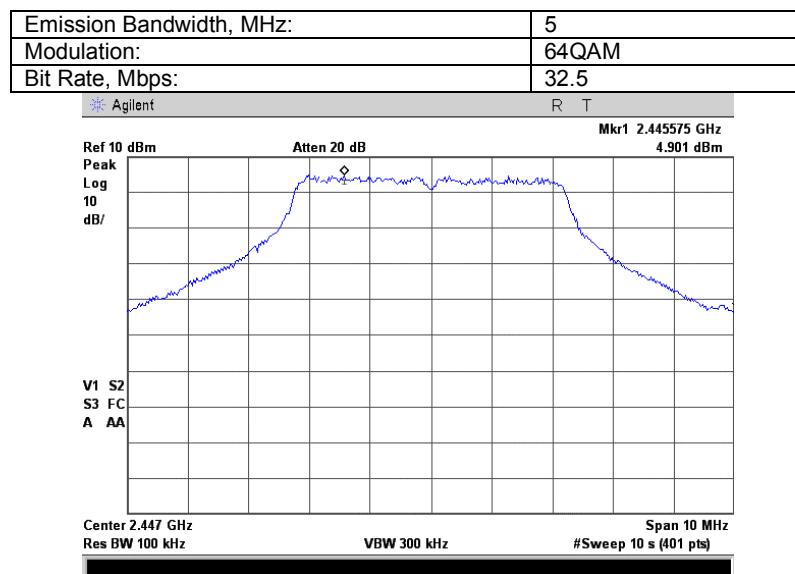


Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.7 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)



Plot 7.3.8 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

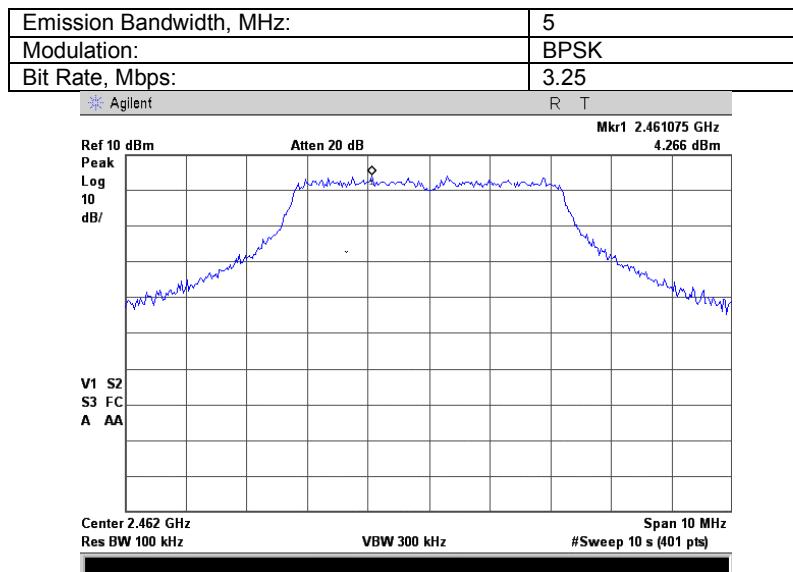




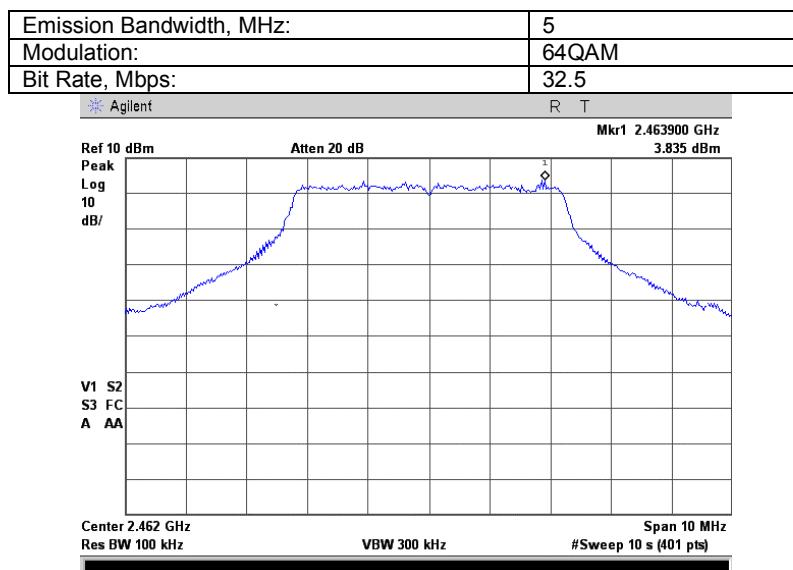
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.9 The highest emission level within the assigned band at high carrier frequency 2462 MHz, individual RF output (Antenna 2)



Plot 7.3.10 The highest emission level within the assigned band at high carrier frequency 2462 MHz, individual RF output (Antenna 2)



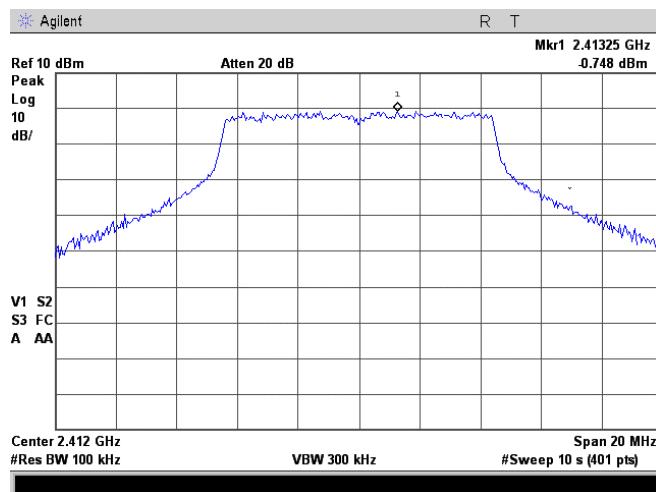


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

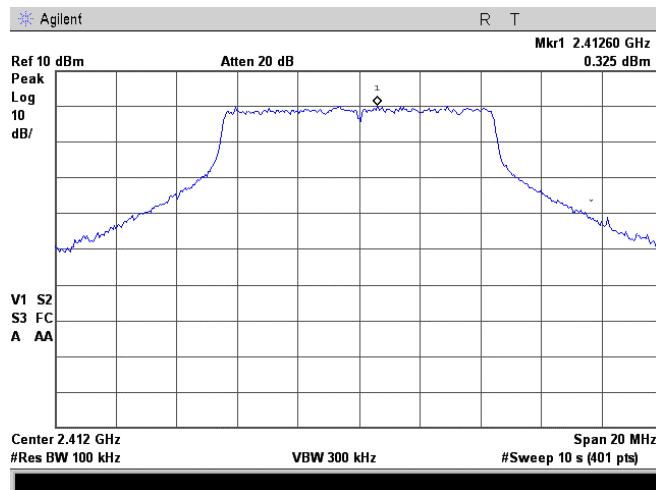
Plot 7.3.11 The highest emission level within the assigned band at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.12 The highest emission level within the assigned band at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



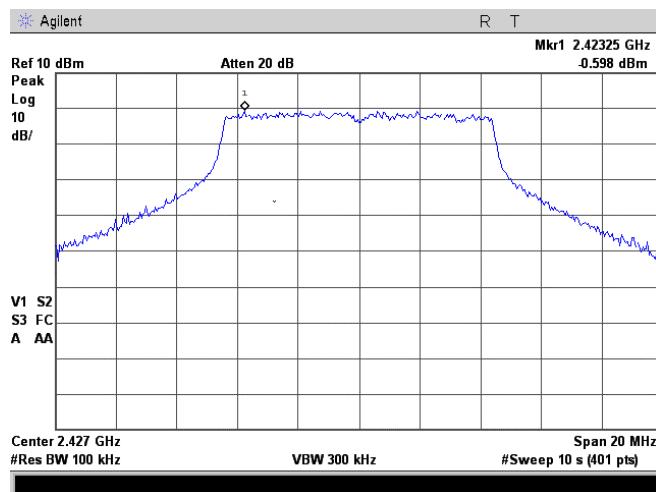


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

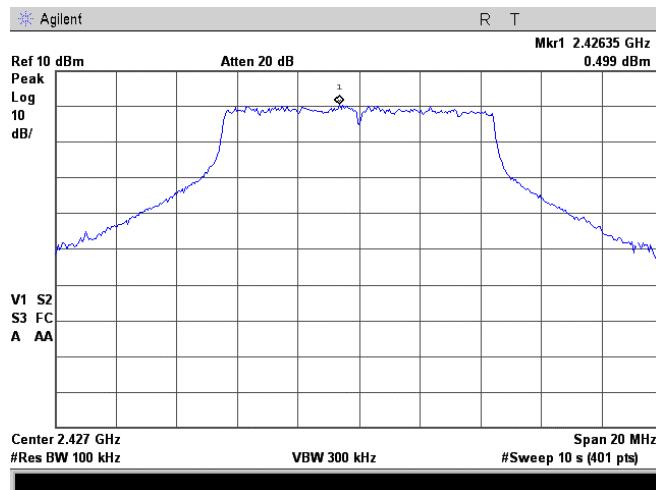
Plot 7.3.13 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.14 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



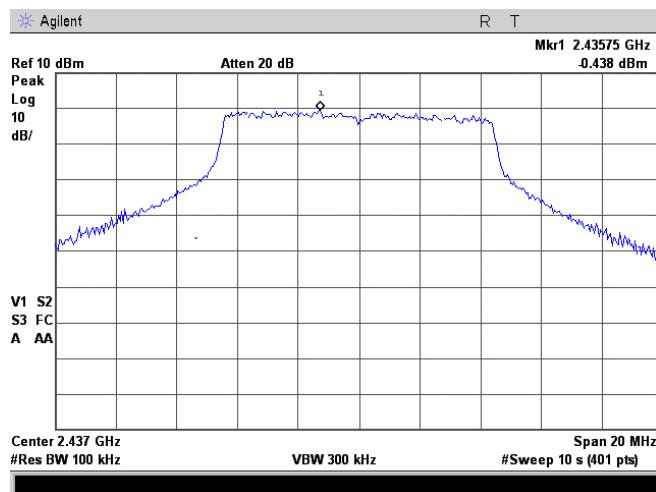


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

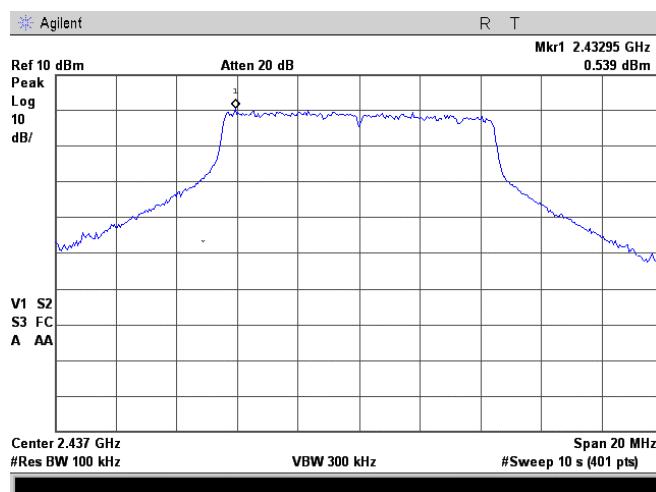
Plot 7.3.15 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.16 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

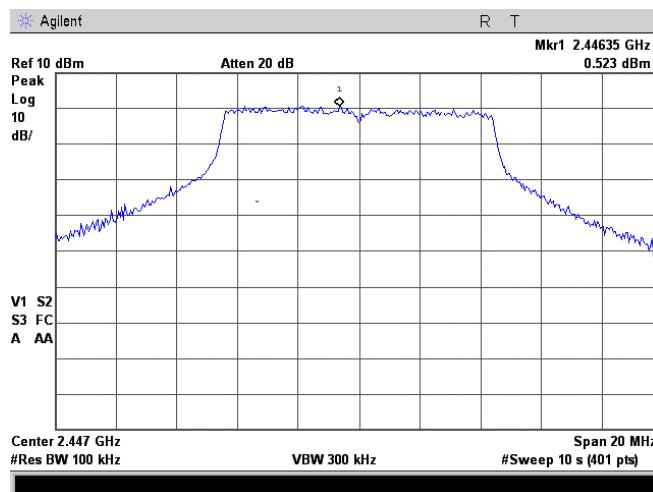
Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

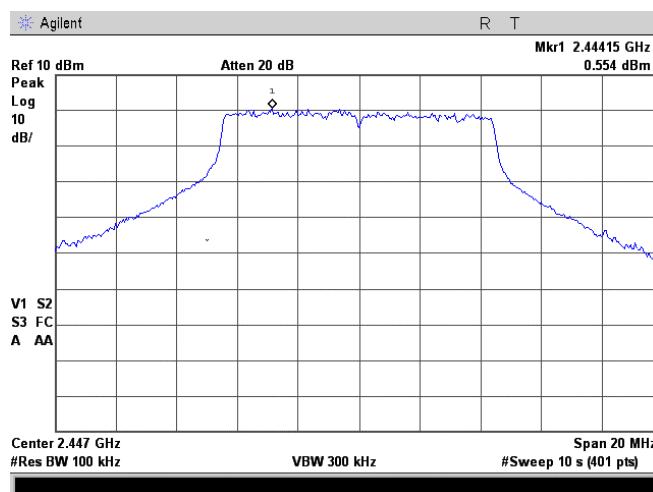
Plot 7.3.17 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.18 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65

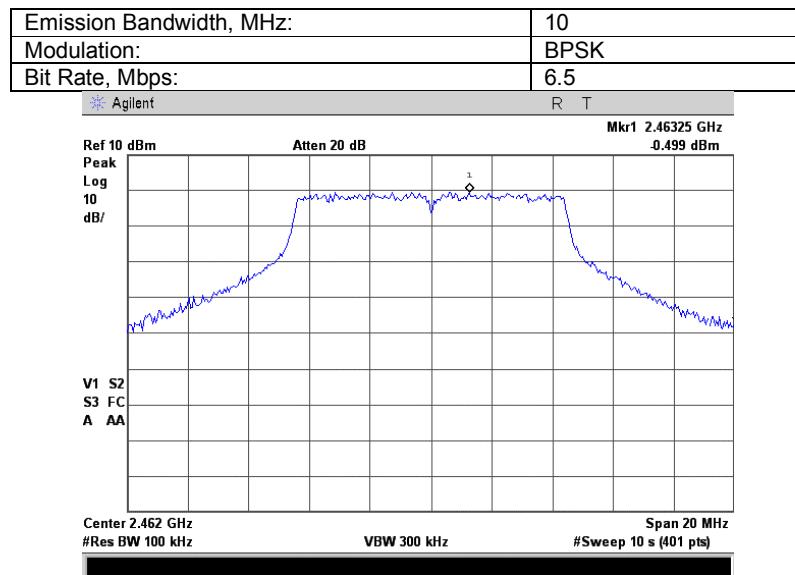




HERMON LABORATORIES

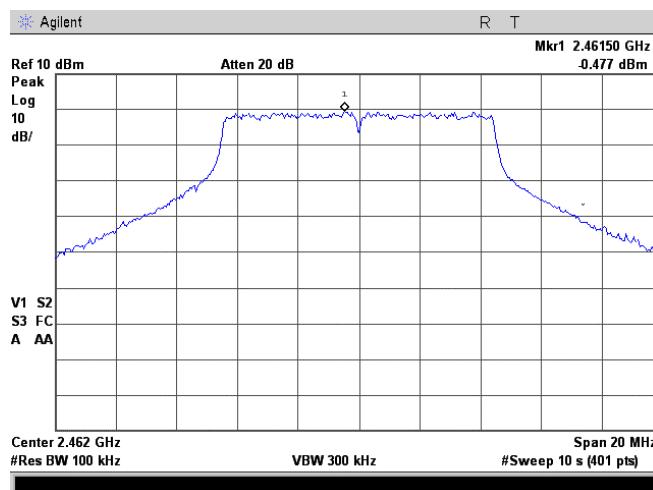
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.19 The highest emission level within the assigned band at high carrier frequency 2462 MHz, individual RF output (Antenna 2)



Plot 7.3.20 The highest emission level within the assigned band at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65

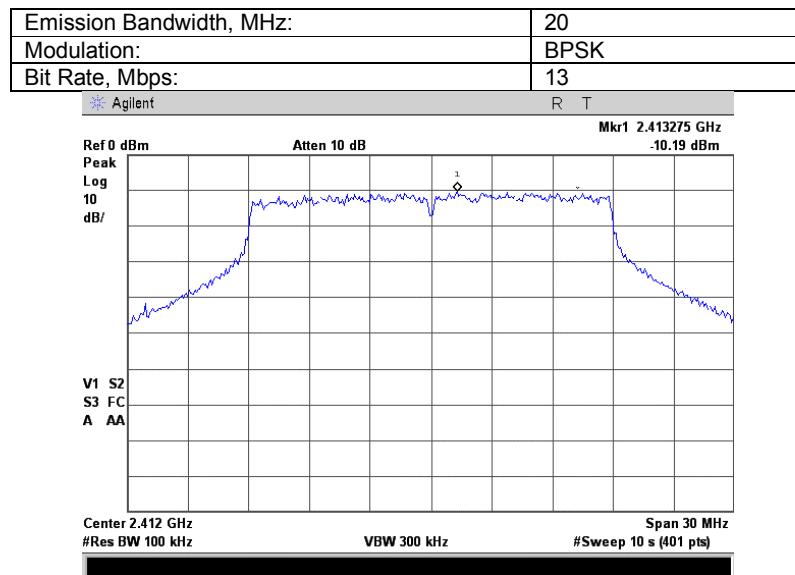




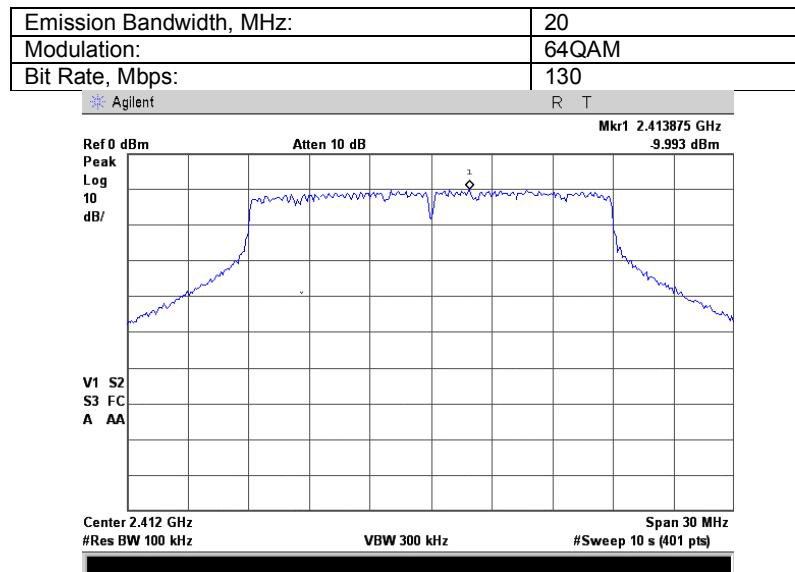
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.21 The highest emission level within the assigned band at low carrier frequency 2412 MHz, individual RF output (Antenna 2)



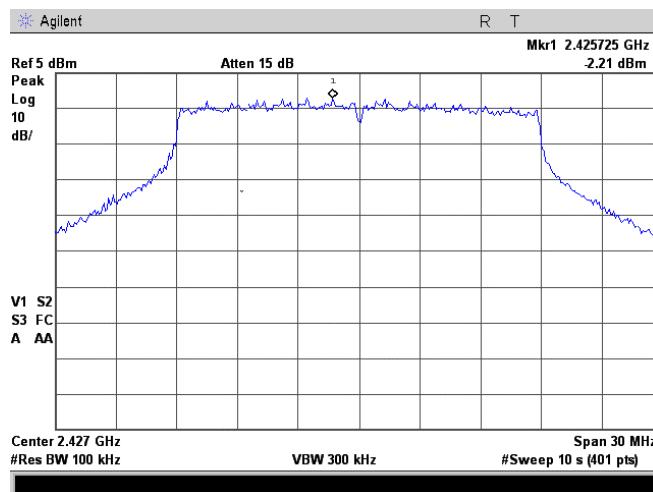
Plot 7.3.22 The highest emission level within the assigned band at low carrier frequency 2412 MHz, individual RF output (Antenna 2)



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

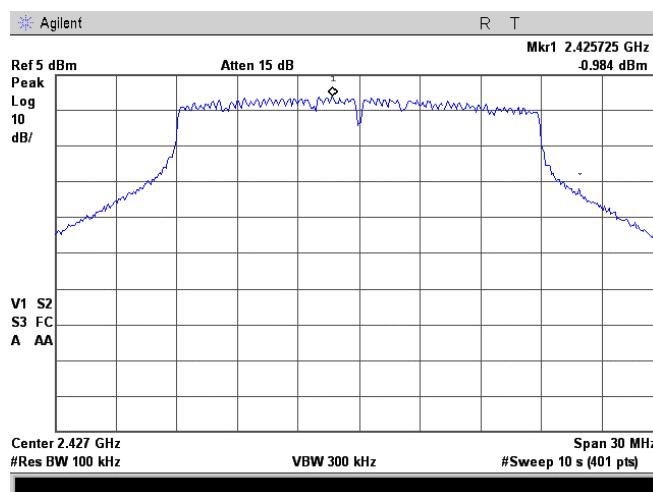
Plot 7.3.23 The highest emission level within the assigned band Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.24 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



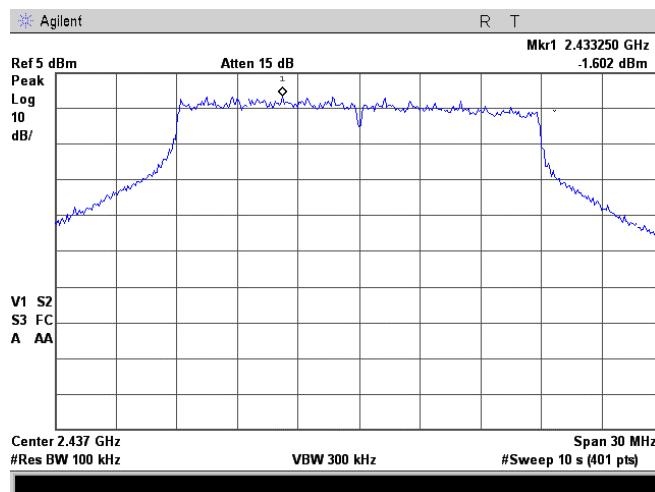


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

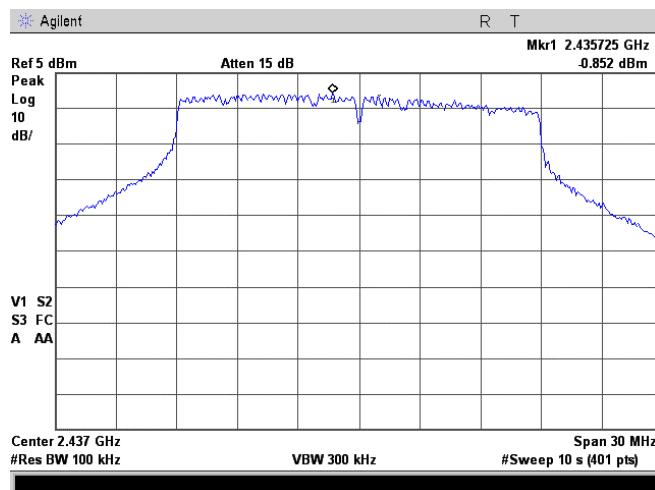
Plot 7.3.25 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.26 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

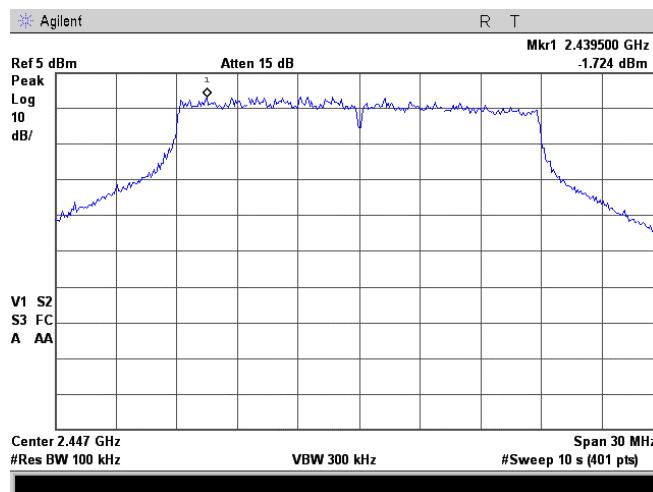
Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

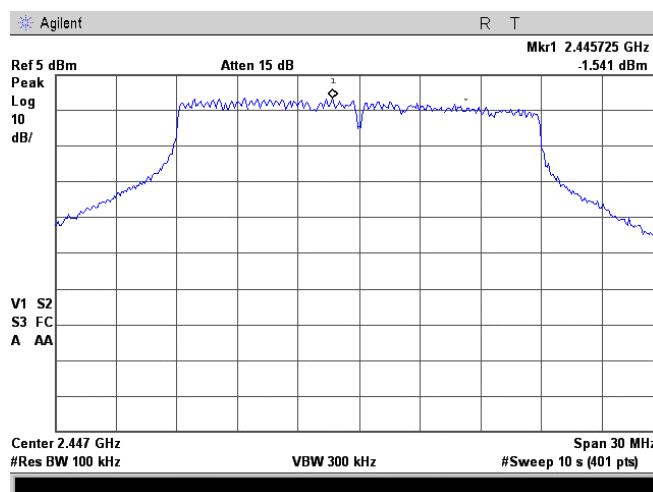
Plot 7.3.27 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.28 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



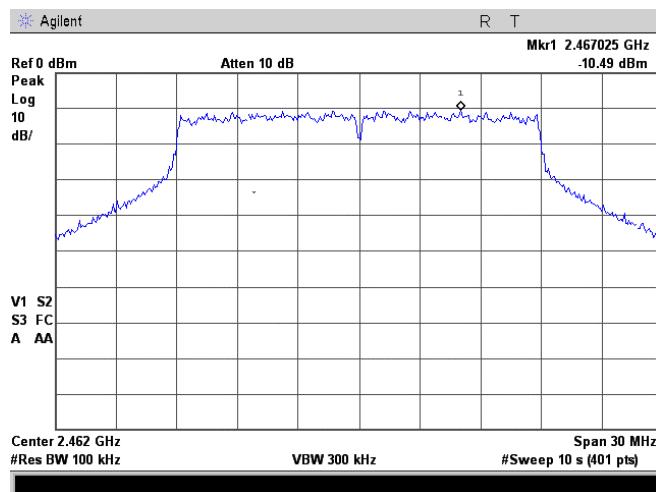


HERMON LABORATORIES

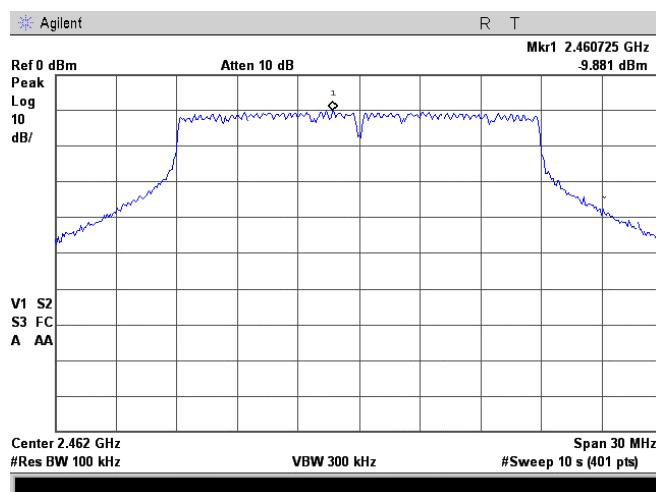
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.29 The highest emission level within the assigned band at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13

**Plot 7.3.30 The highest emission level within the assigned band at high carrier frequency 2462 MHz, individual RF output (Antenna 2)**

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



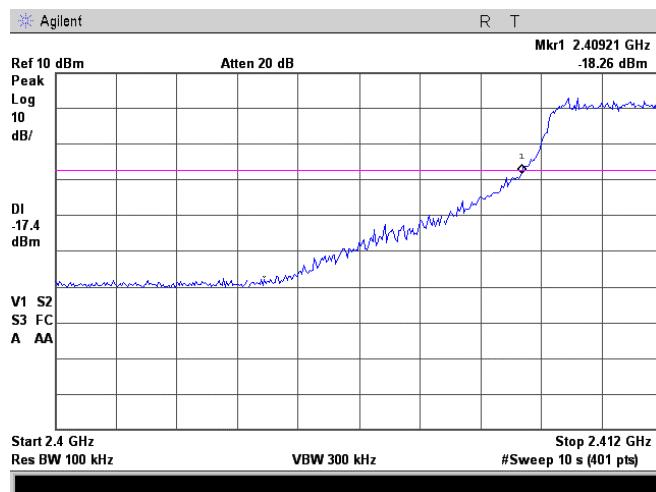


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

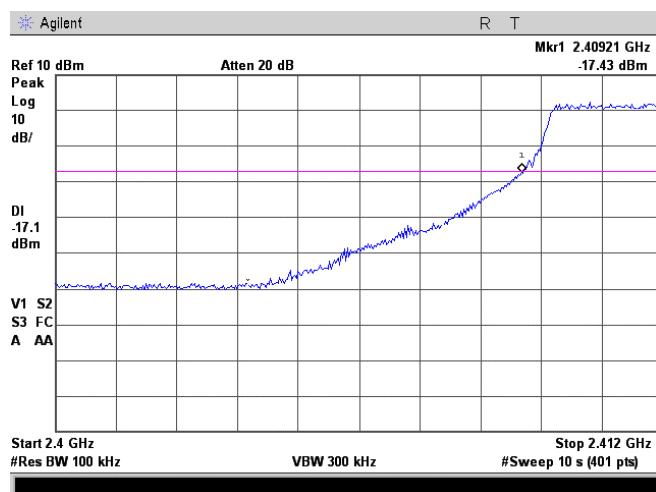
Plot 7.3.31 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25



Plot 7.3.32 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	32.5



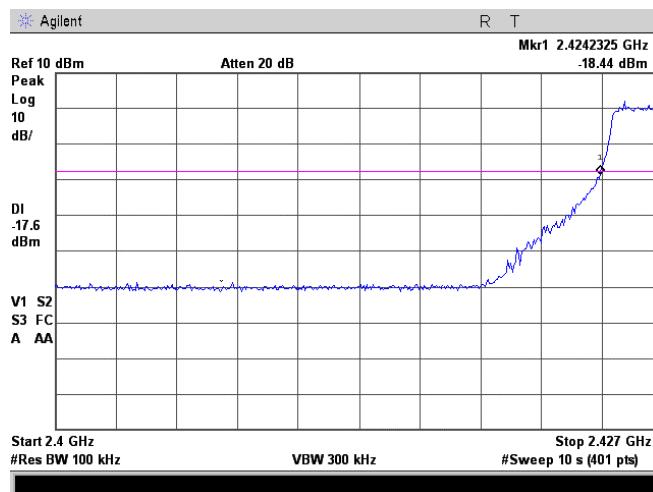


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

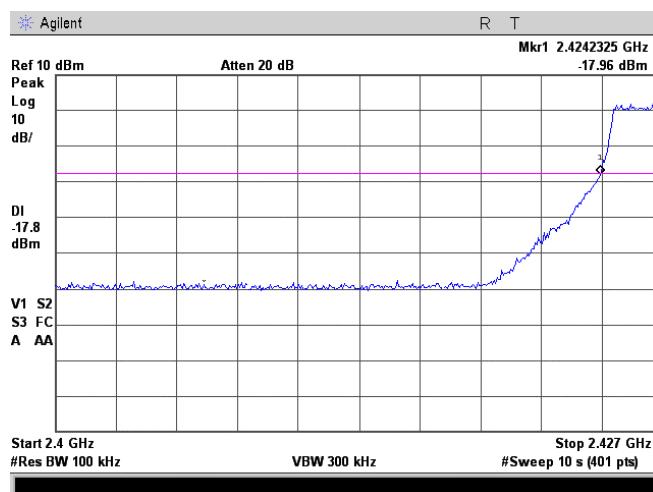
Plot 7.3.33 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25



Plot 7.3.34 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	32.5



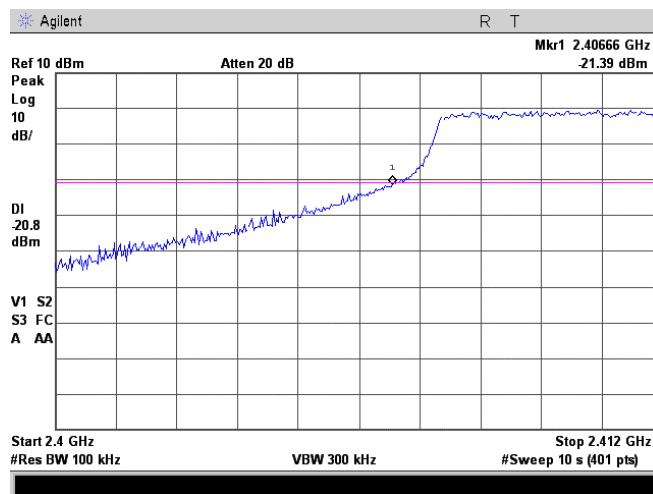


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance		
Date & Time:	4/19/2009 4:12:25 PM	Verdict: PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

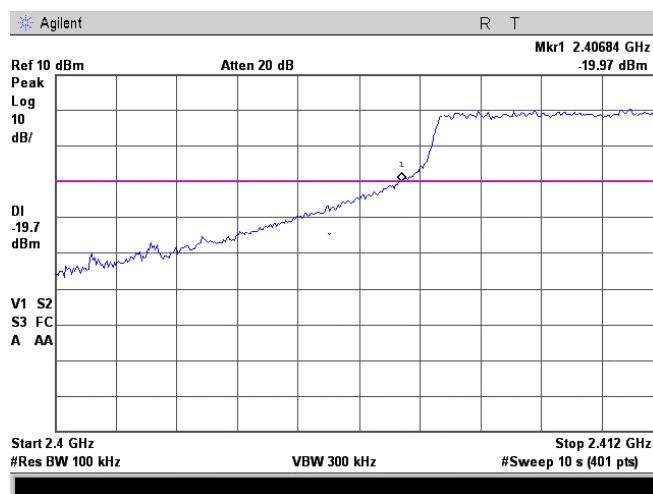
Plot 7.3.35 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.36 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



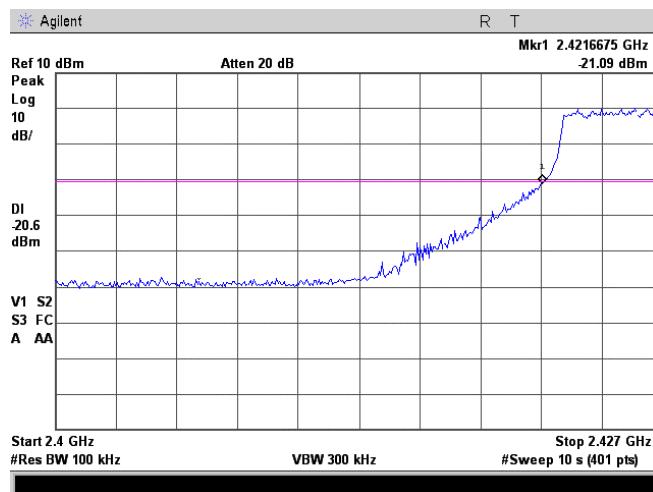


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

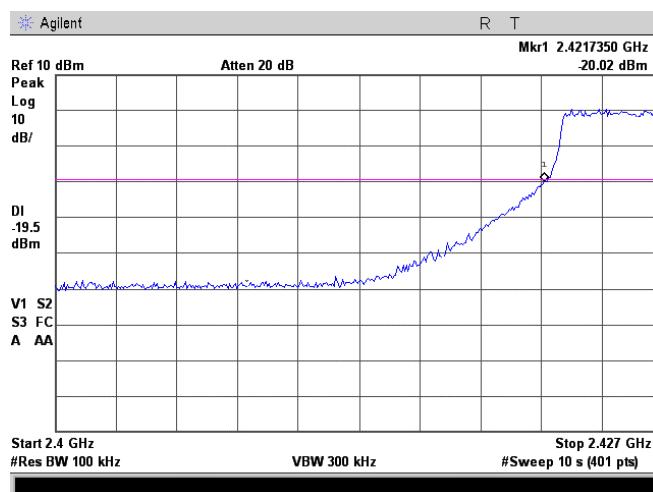
Plot 7.3.37 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.38 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



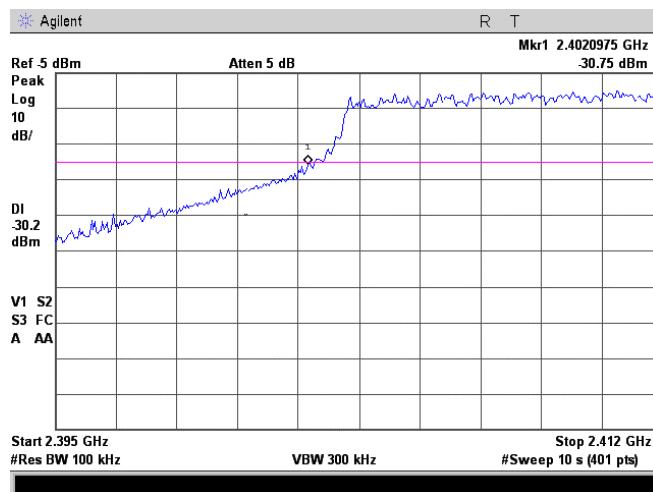


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

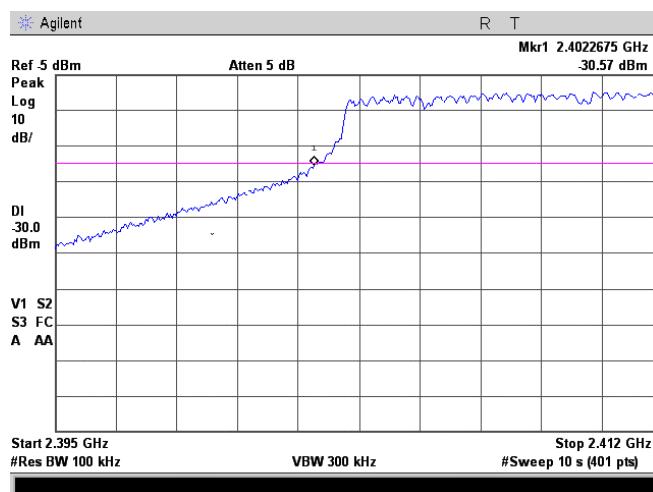
Plot 7.3.39 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.40 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



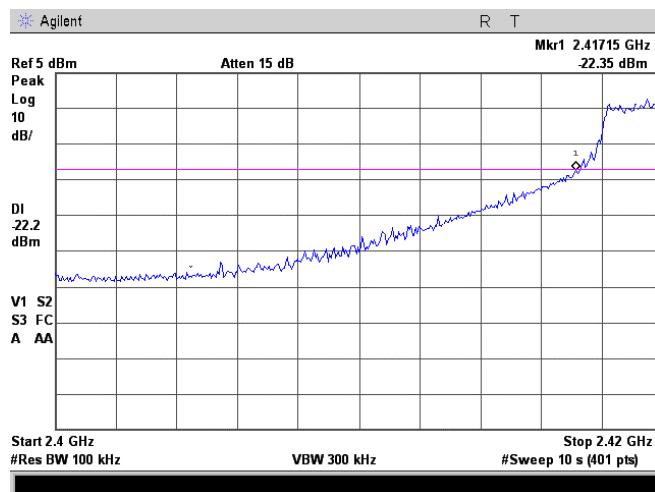


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

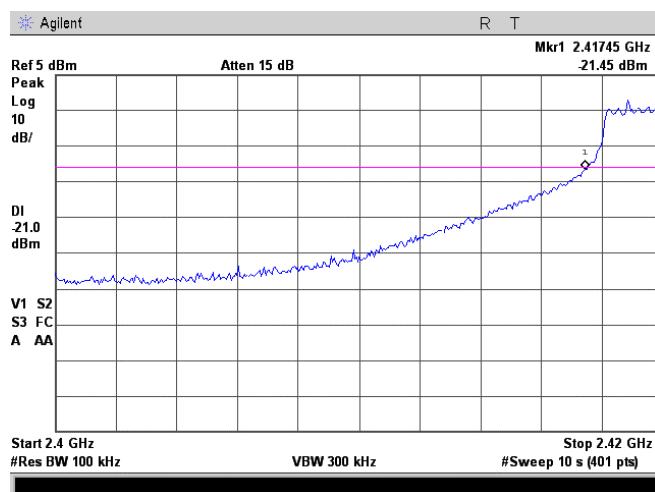
Plot 7.3.41 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.42 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



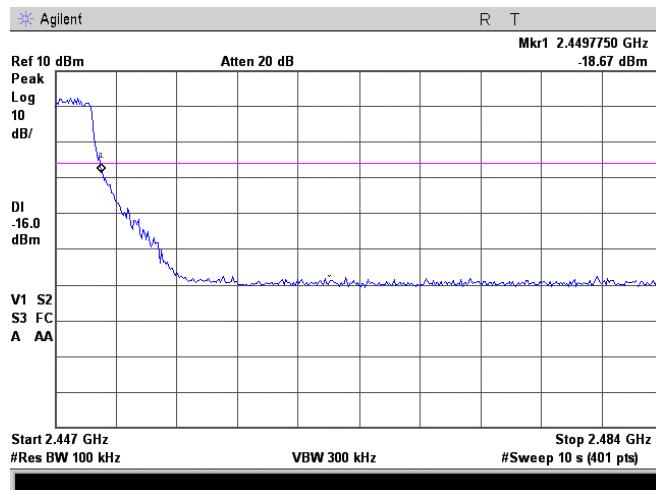


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

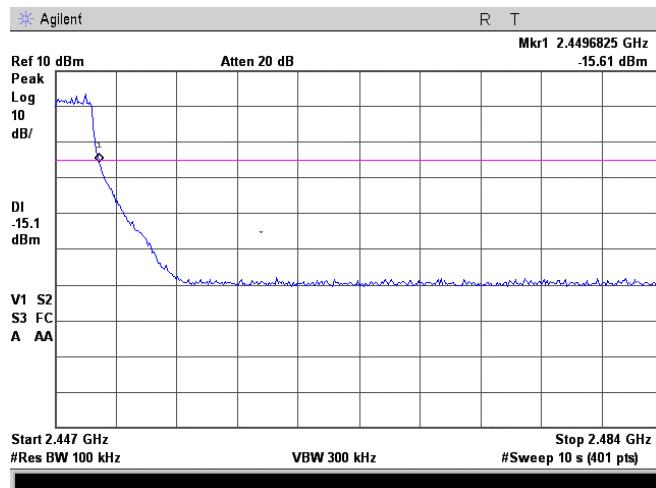
Plot 7.3.43 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25



Plot 7.3.44 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	3.25



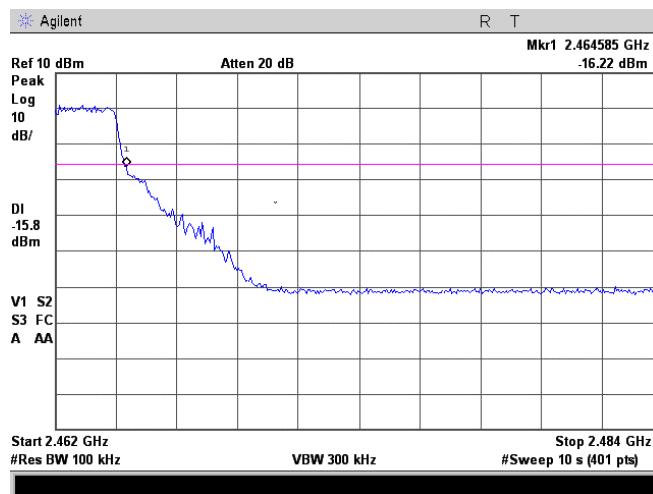


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

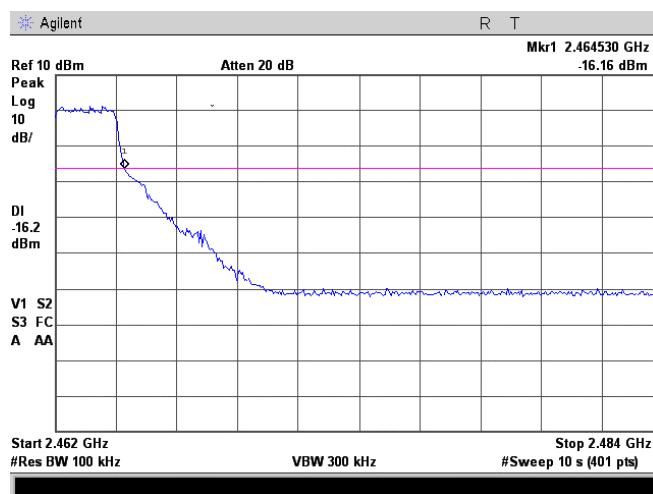
Plot 7.3.45 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25



Plot 7.3.46 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

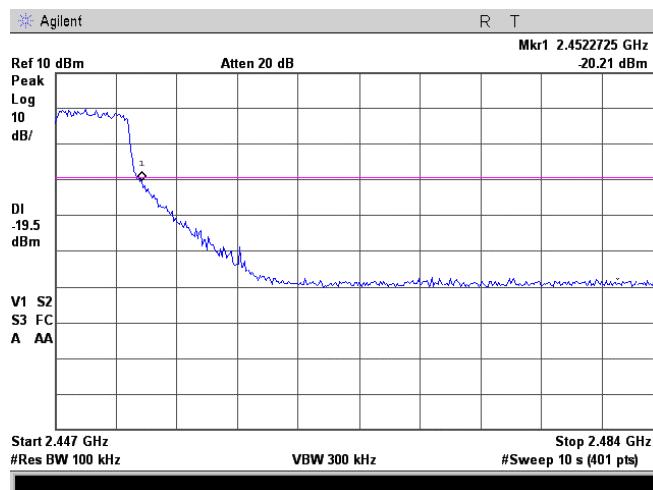
Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	3.25



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

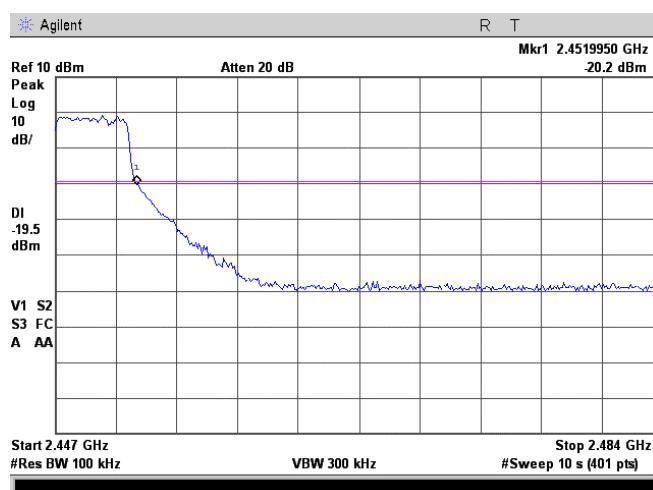
Plot 7.3.47 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.48 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65

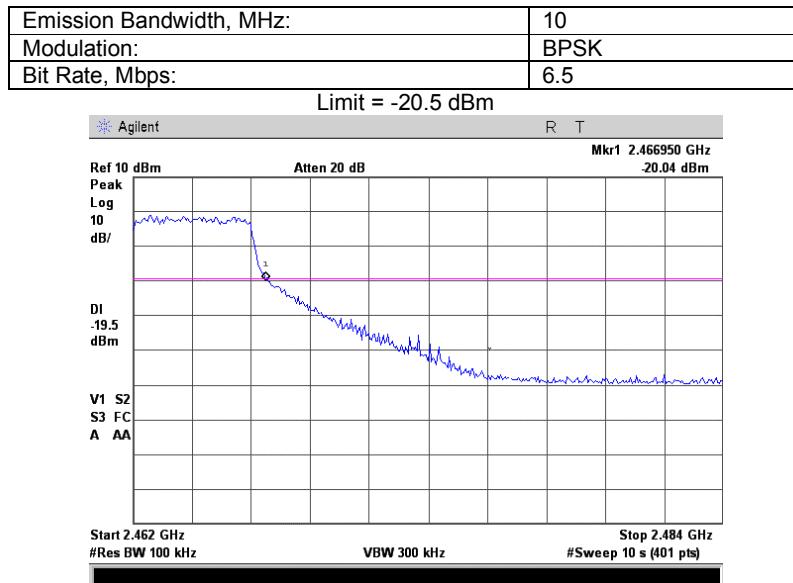




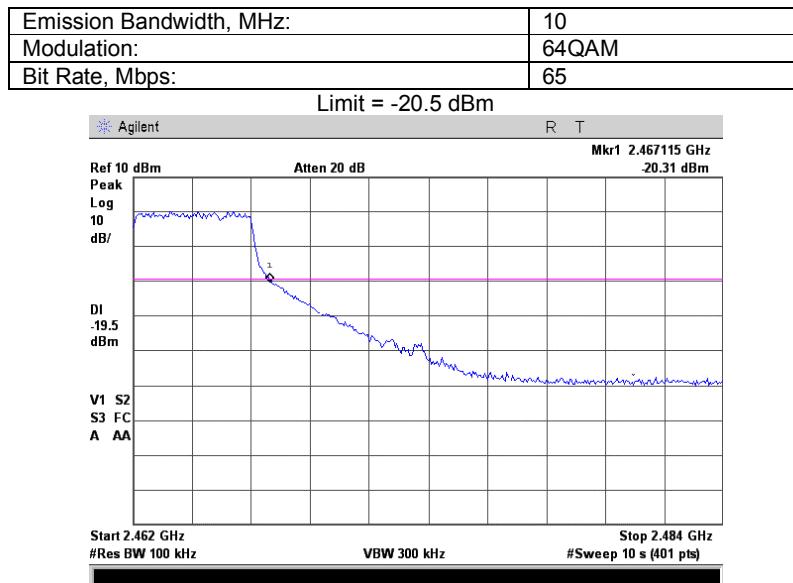
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.49 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, individual RF output (Antenna 2)



Plot 7.3.50 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, individual RF output (Antenna 2)



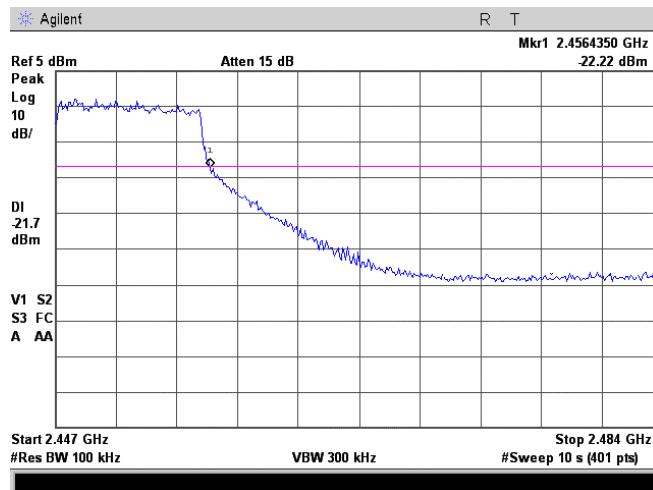


HERMON LABORATORIES

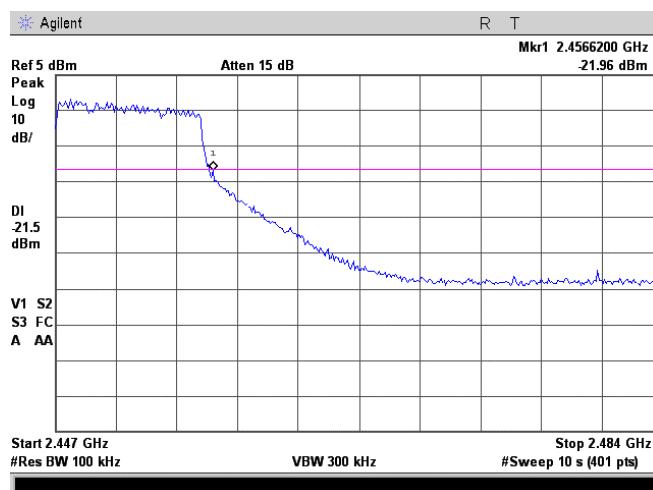
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.51 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13

**Plot 7.3.52 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)**

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



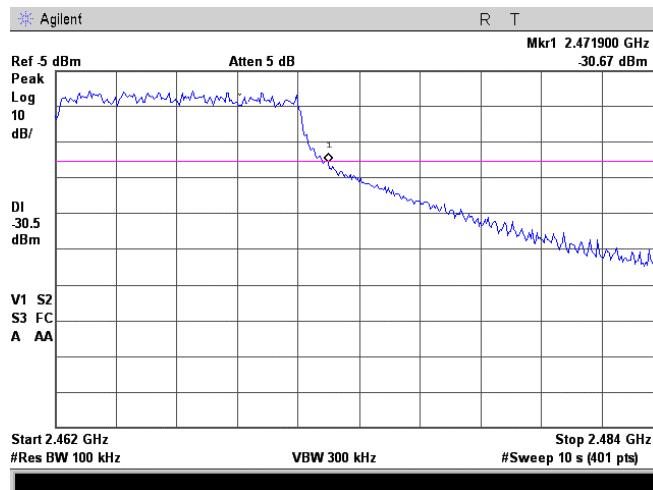


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

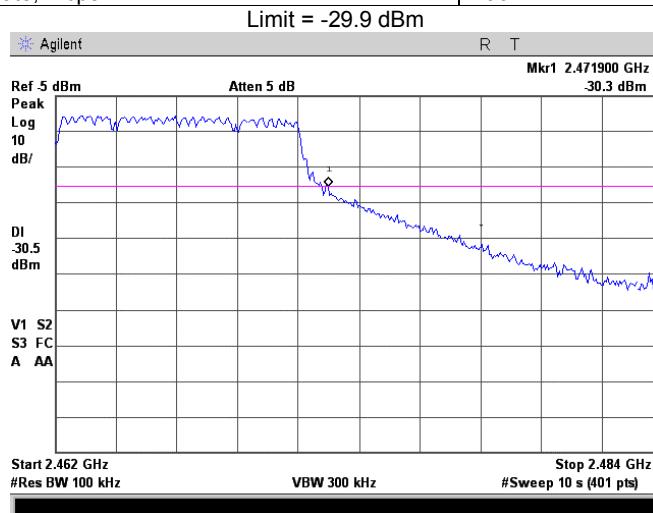
Plot 7.3.53 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.54 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

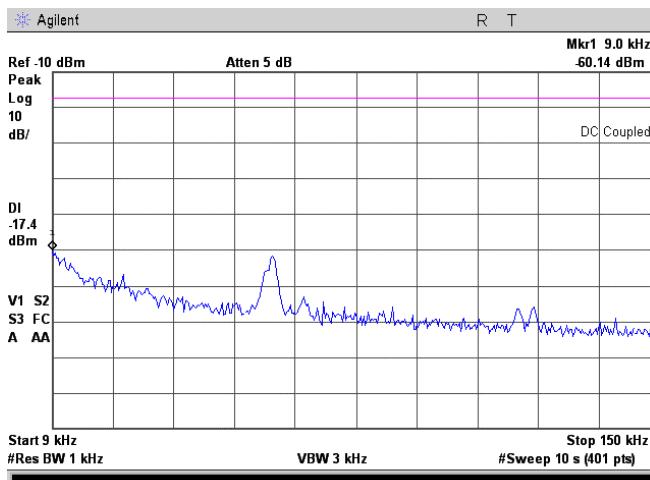
Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



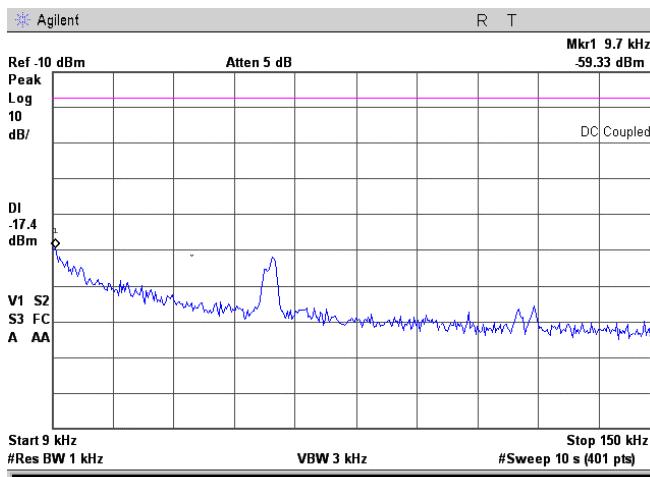


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.55 Spurious emission measurements in 9 - 150 kHz range at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.7 dBm limit shall be applied, for 20 MHz EBW the – 30.2 dBm limit shall be applied

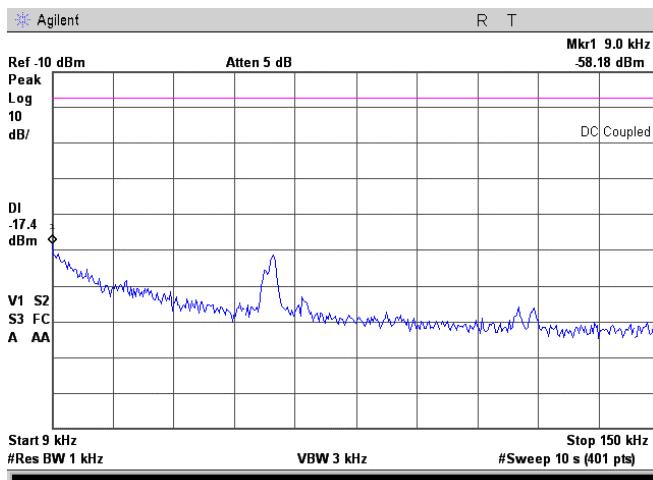
Plot 7.3.56 Spurious emission measurements in 9 - 150 kHz range at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.6 dBm limit shall be applied, for 20 MHz EBW the – 22.2 dBm limit shall be applied

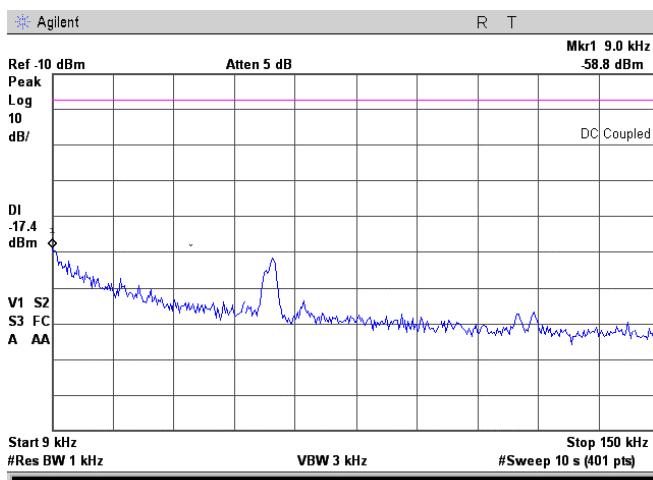


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.57 Spurious emission measurements in 9 - 150 kHz range at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.4 dBm limit shall be applied, for 20 MHz EBW the – 21.6 dBm limit shall be applied

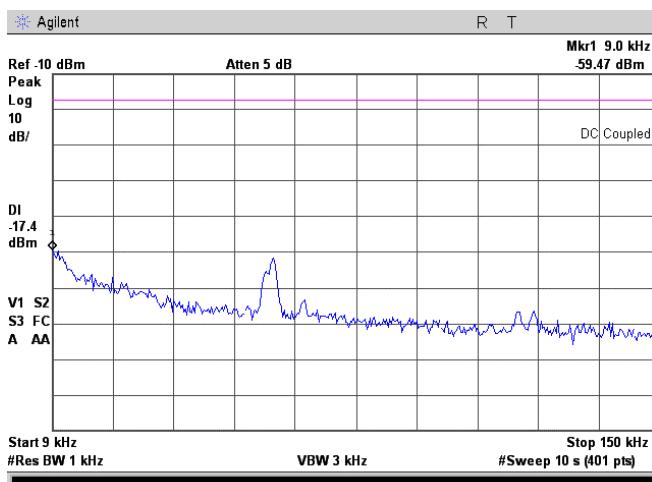
Plot 7.3.58 Spurious emission measurements in 9 - 150 kHz range at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 19.5 dBm limit shall be applied, for 20 MHz EBW the – 21.7 dBm limit shall be applied

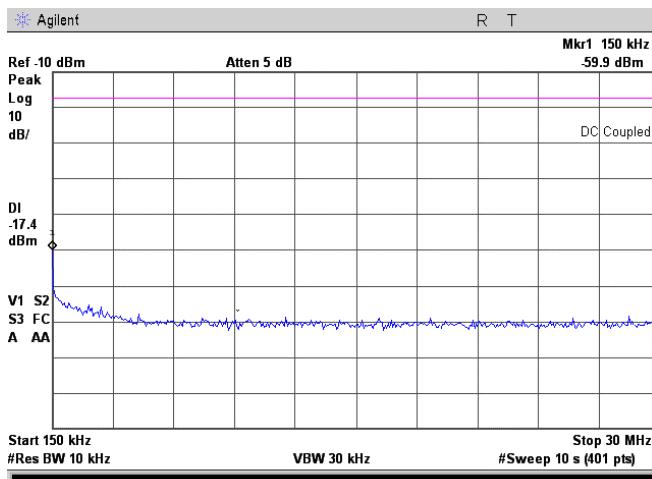


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.59 Spurious emission measurements in 9 - 150 kHz range at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.5 dBm limit shall be applied, for 20 MHz EBW the – 30.5 dBm limit shall be applied

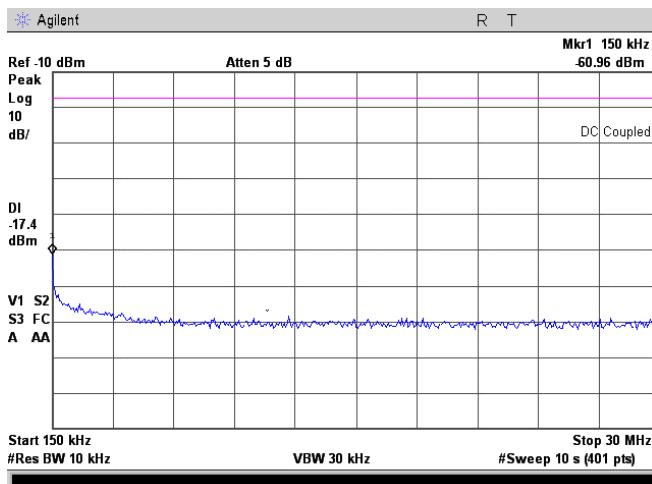
Plot 7.3.60 Spurious emission measurements in 0.15 - 30 MHz range at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.7 dBm limit shall be applied, for 20 MHz EBW the – 30.2 dBm limit shall be applied

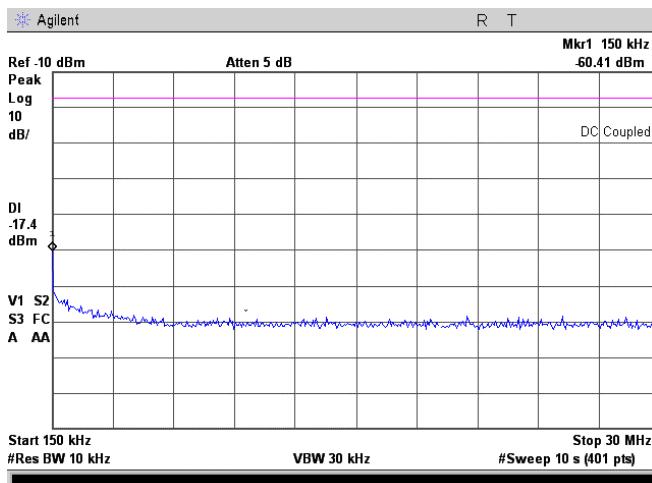


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.61 Spurious emission measurements in 0.15 - 30 MHz range at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.6 dBm limit shall be applied, for 20 MHz EBW the – 22.2 dBm limit shall be applied

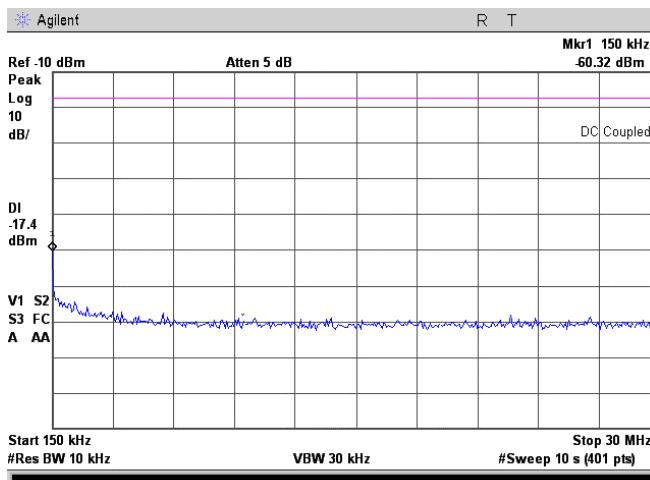
Plot 7.3.62 Spurious emission measurements in 0.15 - 30 MHz range at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.4 dBm limit shall be applied, for 20 MHz EBW the – 21.6 dBm limit shall be applied

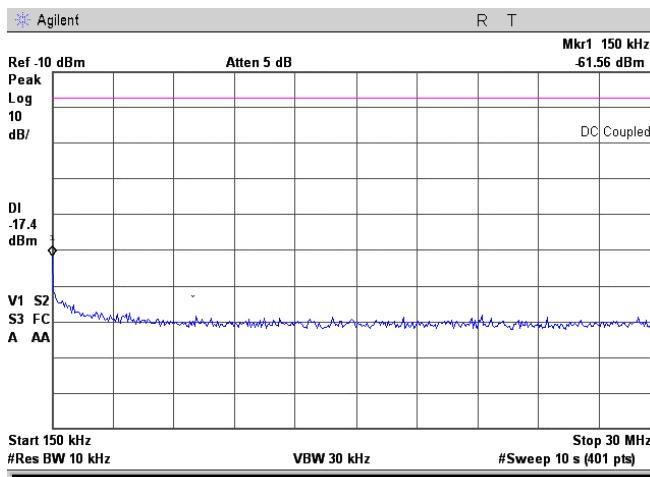


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.63 Spurious emission measurements in 0.15 - 30 MHz range at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 19.5 dBm limit shall be applied, for 20 MHz EBW the – 21.7 dBm limit shall be applied

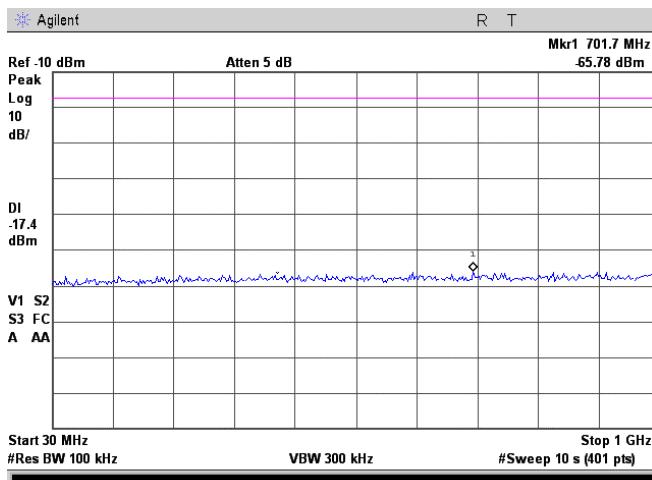
Plot 7.3.64 Spurious emission measurements in 0.15 - 30 MHz range at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.5 dBm limit shall be applied, for 20 MHz EBW the – 30.5 dBm limit shall be applied

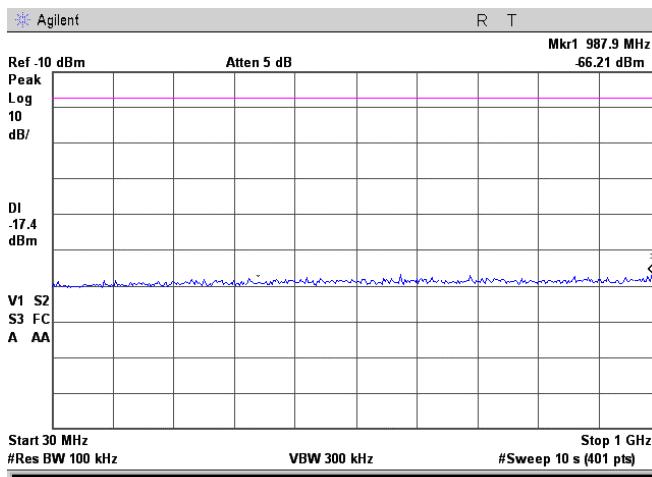


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.65 Spurious emission measurements in 30 - 1000 MHz range at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.7 dBm limit shall be applied, for 20 MHz EBW the – 30.2 dBm limit shall be applied

Plot 7.3.66 Spurious emission measurements in 30 - 1000 MHz range at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

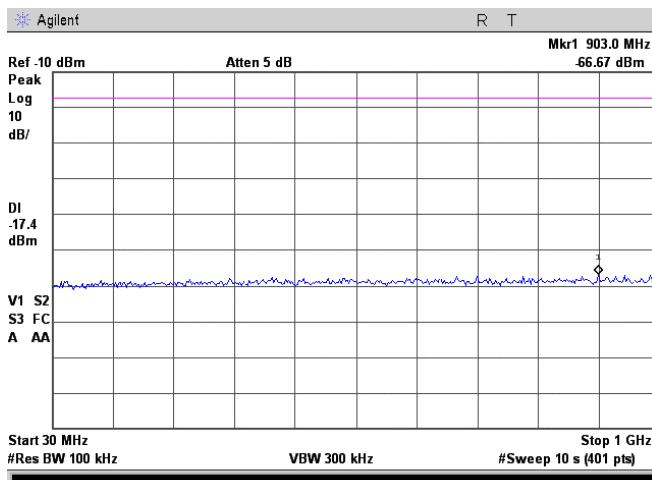
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.6 dBm limit shall be applied, for 20 MHz EBW the – 22.2 dBm limit shall be applied



HERMON LABORATORIES

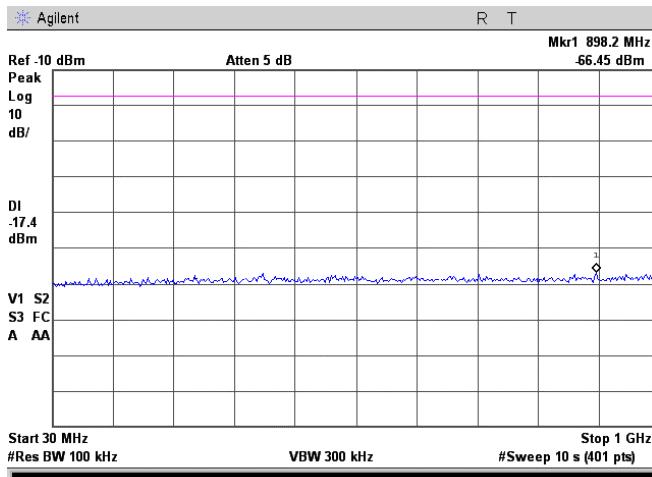
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.67 Spurious emission measurements in 30 - 1000 MHz range at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.4 dBm limit shall be applied, for 20 MHz EBW the – 21.6 dBm limit shall be applied

Plot 7.3.68 Spurious emission measurements in 30 - 1000 MHz range at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)



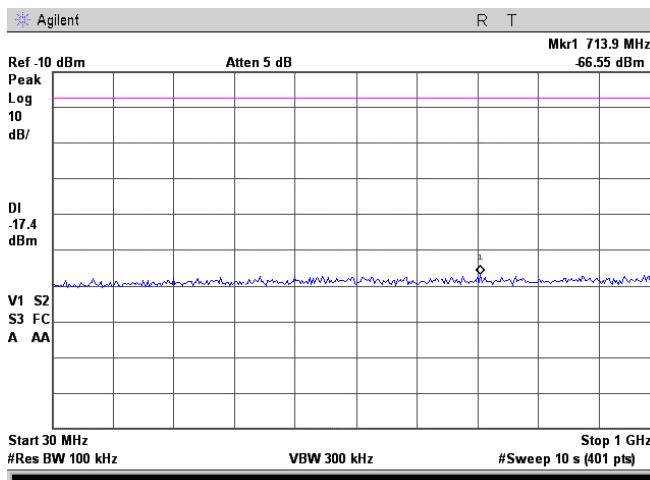
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 19.5 dBm limit shall be applied, for 20 MHz EBW the – 21.7 dBm limit shall be applied



HERMON LABORATORIES

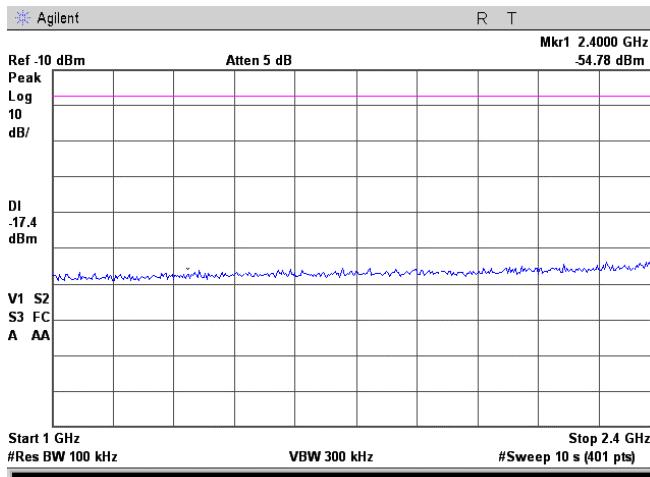
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.69 Spurious emission measurements in 30 - 1000 MHz range at high carrier frequency 2462 MHz, individual RF output (Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.5 dBm limit shall be applied, for 20 MHz EBW the – 30.5 dBm limit shall be applied

Plot 7.3.70 Spurious emission measurements in 1000 – 2400 MHz range at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

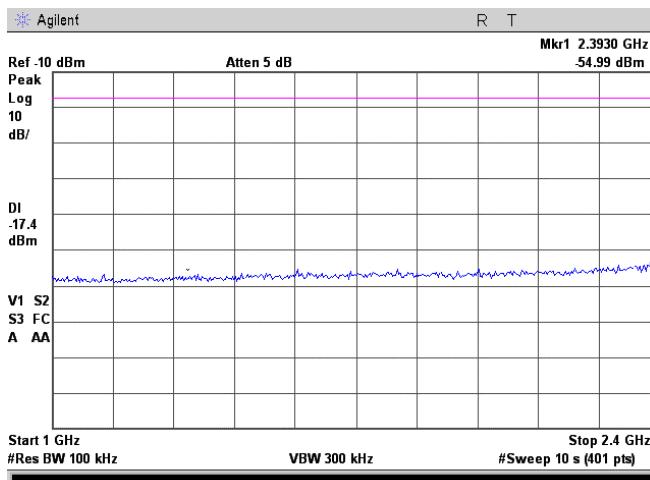


Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.7 dBm limit shall be applied, for 20 MHz EBW the – 30.2 dBm limit shall be applied

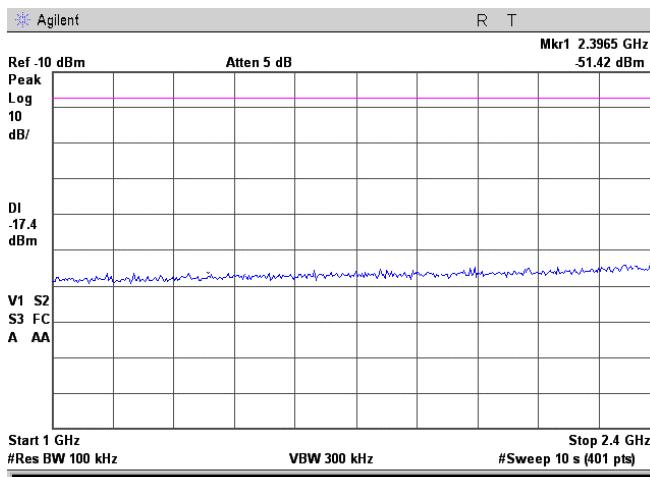


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.71 Spurious emission measurements in 1000 – 2400 MHz range at at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.6 dBm limit shall be applied, for 20 MHz EBW the – 22.2 dBm limit shall be applied

Plot 7.3.72 Spurious emission measurements in 1000 - 2400 MHz range at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

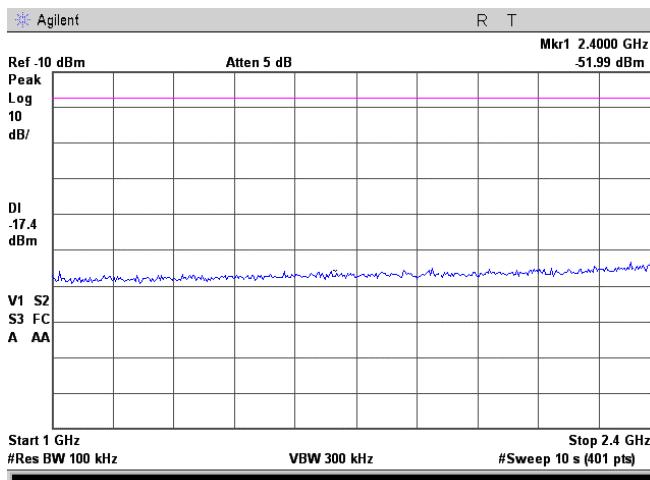
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.4 dBm limit shall be applied, for 20 MHz EBW the – 21.6 dBm limit shall be applied



HERMON LABORATORIES

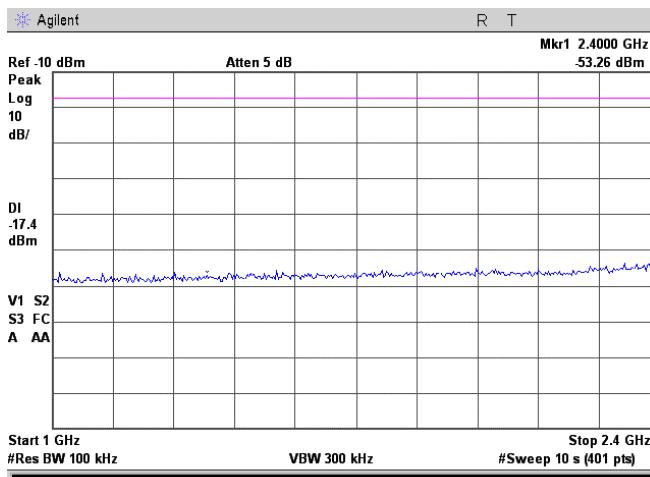
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.73 Spurious emission measurements in 1000 - 2400 MHz range at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 19.5 dBm limit shall be applied, for 20 MHz EBW the – 21.7 dBm limit shall be applied

Plot 7.3.74 Spurious emission measurements in 1000 - 2400 MHz range at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

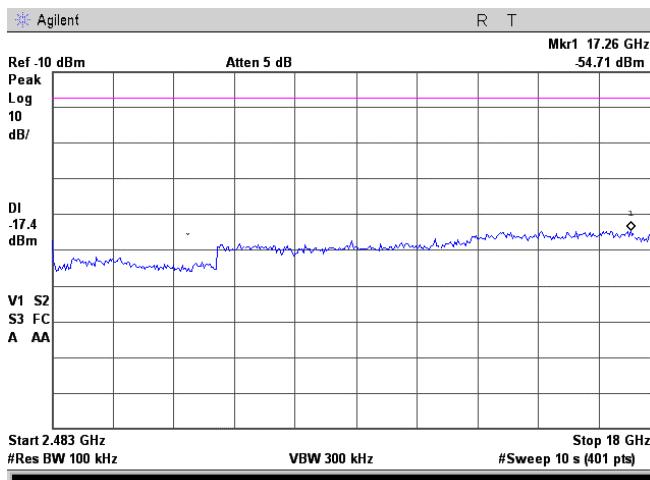


Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.5 dBm limit shall be applied, for 20 MHz EBW the – 30.5 dBm limit shall be applied

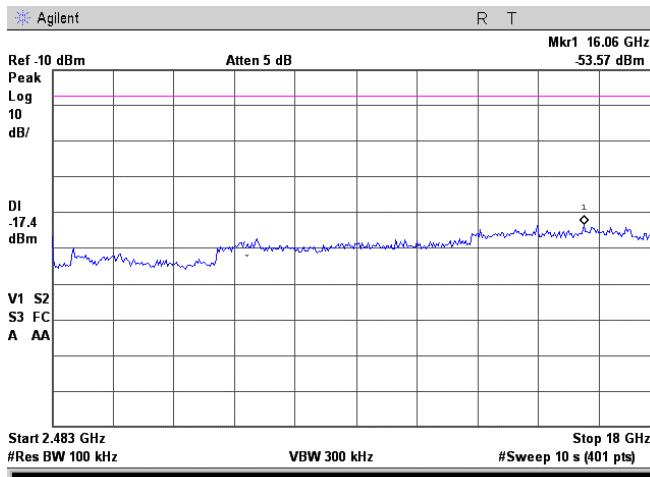


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.75 Spurious emission measurements in 2848 - 18000 MHz range at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.7 dBm limit shall be applied, for 20 MHz EBW the – 30.2 dBm limit shall be applied

Plot 7.3.76 Spurious emission measurements in 2848 - 18000 MHz range at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)

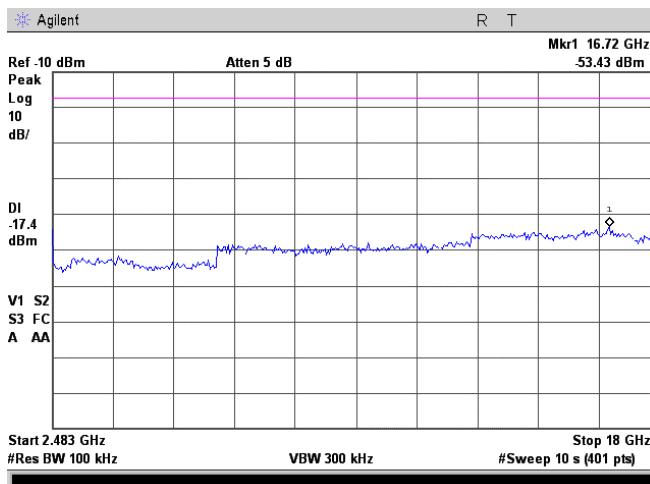
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.6 dBm limit shall be applied, for 20 MHz EBW the – 22.2 dBm limit shall be applied



HERMON LABORATORIES

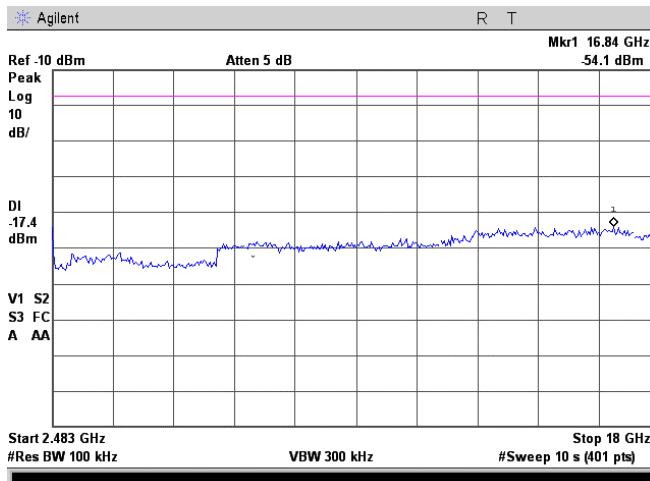
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.77 Spurious emission measurements in 2848 - 18000 MHz range at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.4 dBm limit shall be applied, for 20 MHz EBW the – 21.6 dBm limit shall be applied

Plot 7.3.78 Spurious emission measurements in 2484 - 18000 MHz range at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

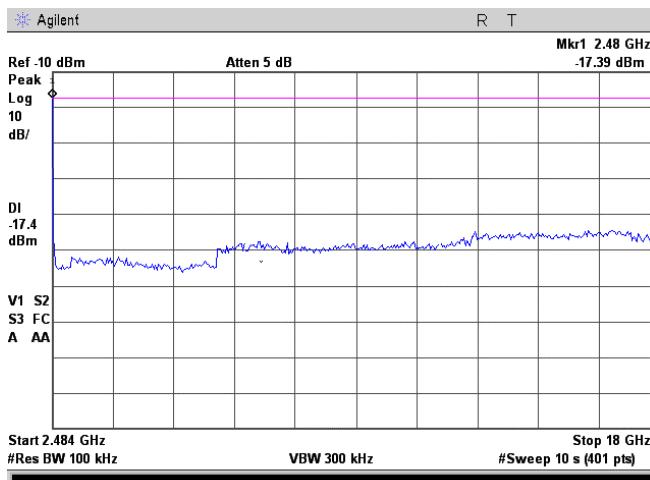


Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 19.5 dBm limit shall be applied, for 20 MHz EBW the – 21.7 dBm limit shall be applied

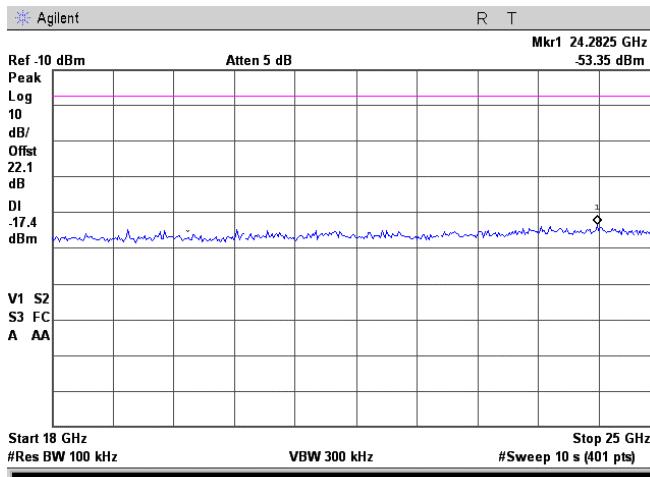


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.79 Spurious emission measurements in 2484 - 18000 MHz range at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

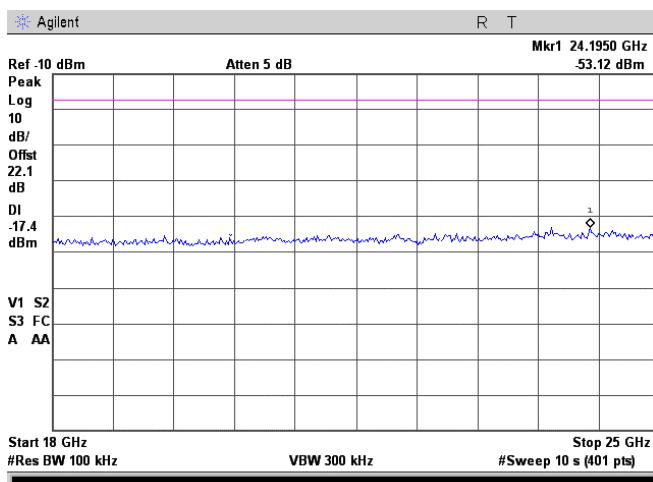
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.5 dBm limit shall be applied, for 20 MHz EBW the – 30.5 dBm limit shall be applied

Plot 7.3.80 Spurious emission measurements in 18000 - 25000 MHz range at low carrier frequency 2412 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.7 dBm limit shall be applied, for 20 MHz EBW the – 30.2 dBm limit shall be applied

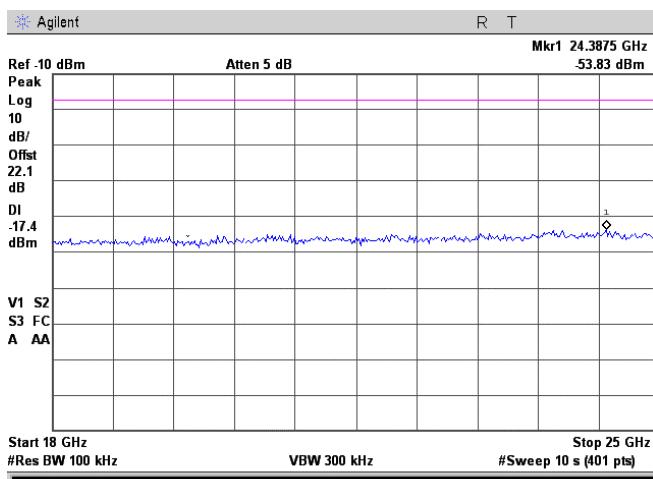
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.81 Spurious emission measurements in 18000 - 25000 MHz range at Mid low carrier frequency 2427 MHz, individual RF output (Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.6 dBm limit shall be applied, for 20 MHz EBW the – 22.2 dBm limit shall be applied

Plot 7.3.82 Spurious emission measurements in 18000 - 25000 MHz range at mid carrier frequency 2437 MHz, individual RF output (Antenna 2)

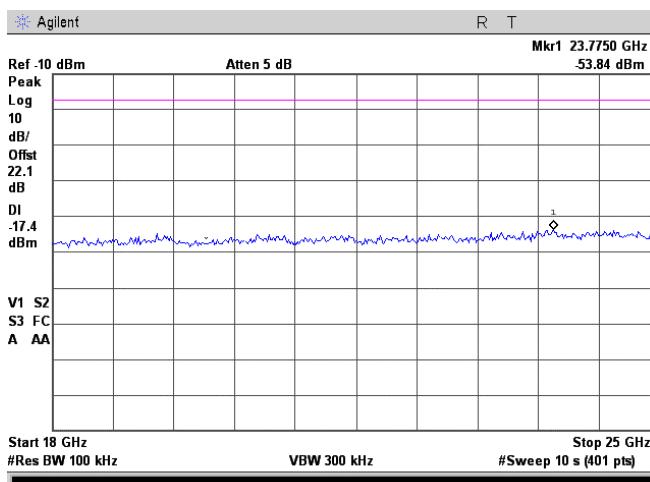


Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.4 dBm limit shall be applied, for 20 MHz EBW the – 21.6 dBm limit shall be applied

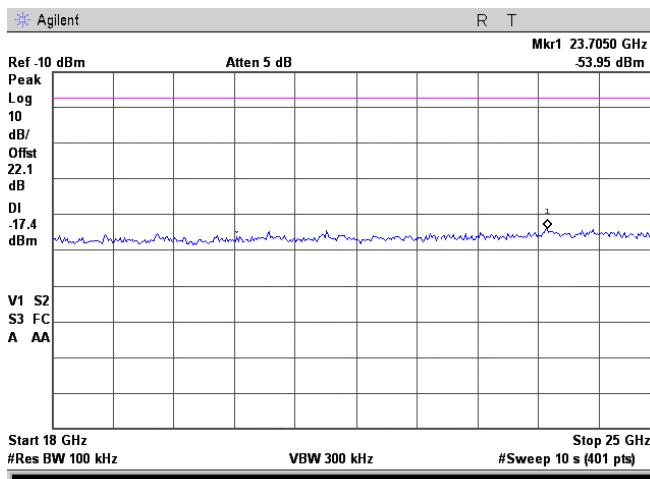


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.83 Spurious emission measurements in 18000 - 25000 MHz range at mid High carrier frequency 2447 MHz, individual RF output (Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 19.5 dBm limit shall be applied, for 20 MHz EBW the – 21.7 dBm limit shall be applied

Plot 7.3.84 Spurious emission measurements in 18000 - 25000 MHz range at high carrier frequency 2462 MHz, individual RF output (Antenna 2)

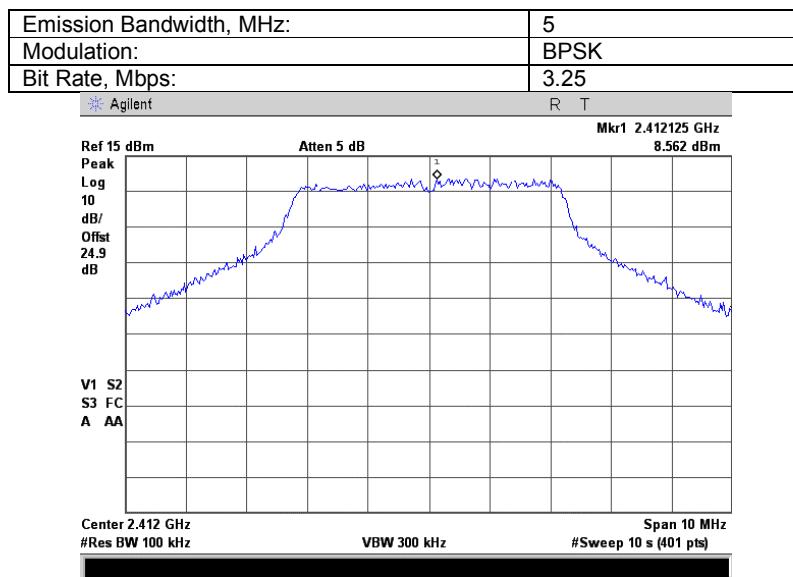
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 20.5 dBm limit shall be applied, for 20 MHz EBW the – 30.5 dBm limit shall be applied



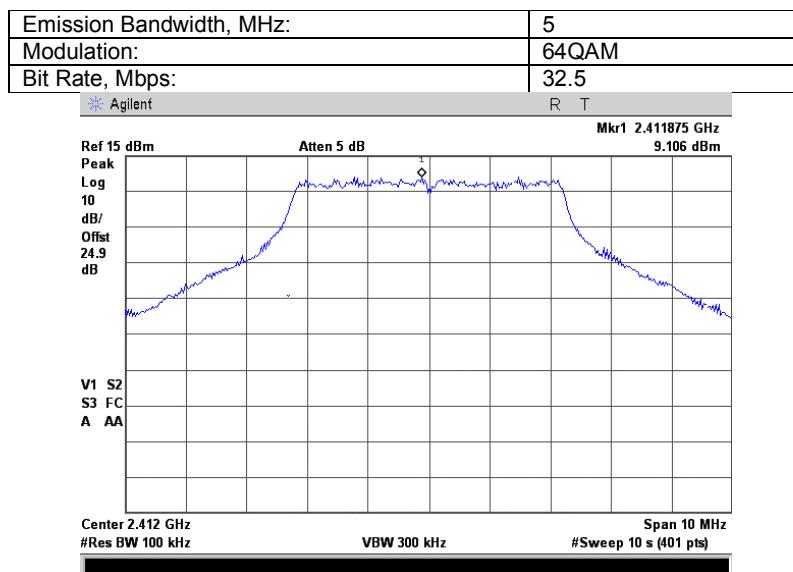
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.85 The highest emission level within the assigned band at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)



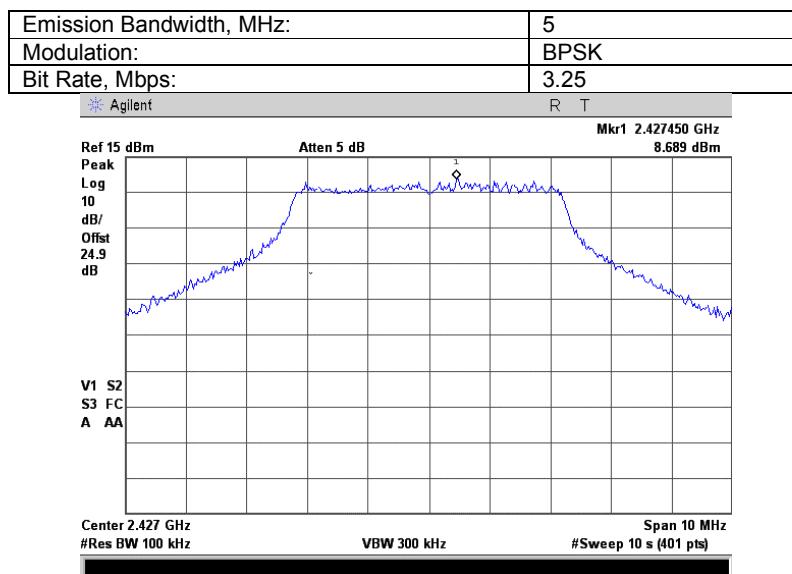
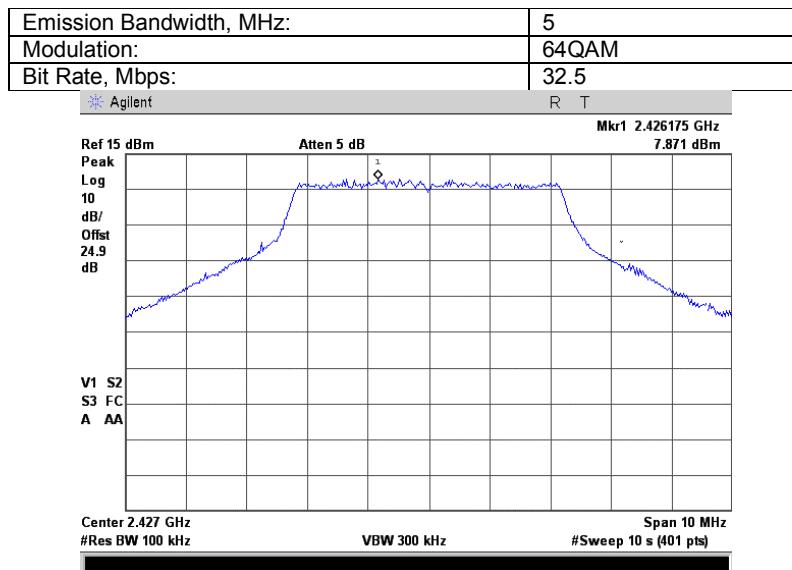
Plot 7.3.86 The highest emission level within the assigned band at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)





HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

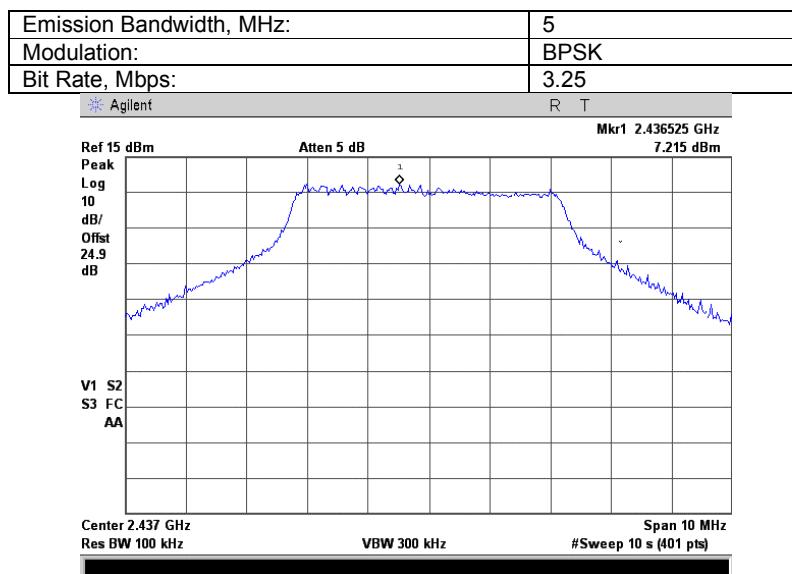
Plot 7.3.87 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)**Plot 7.3.88 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)**



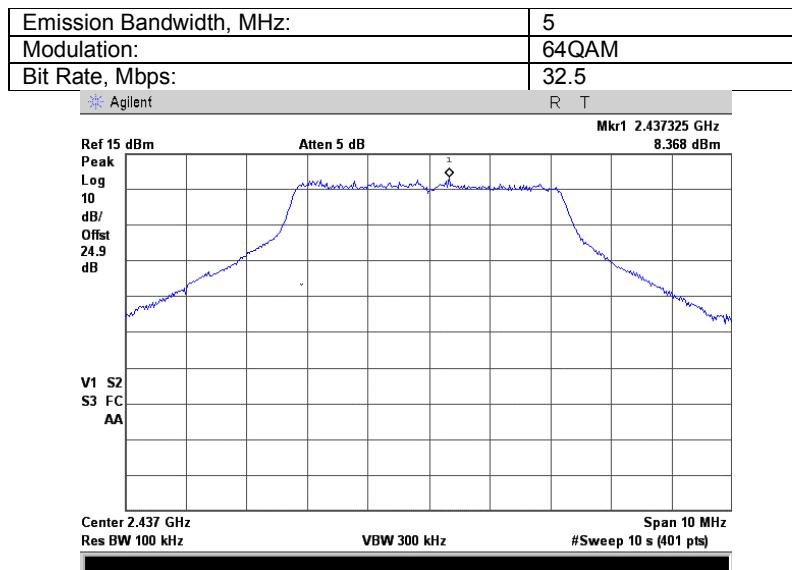
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.89 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)



Plot 7.3.90 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

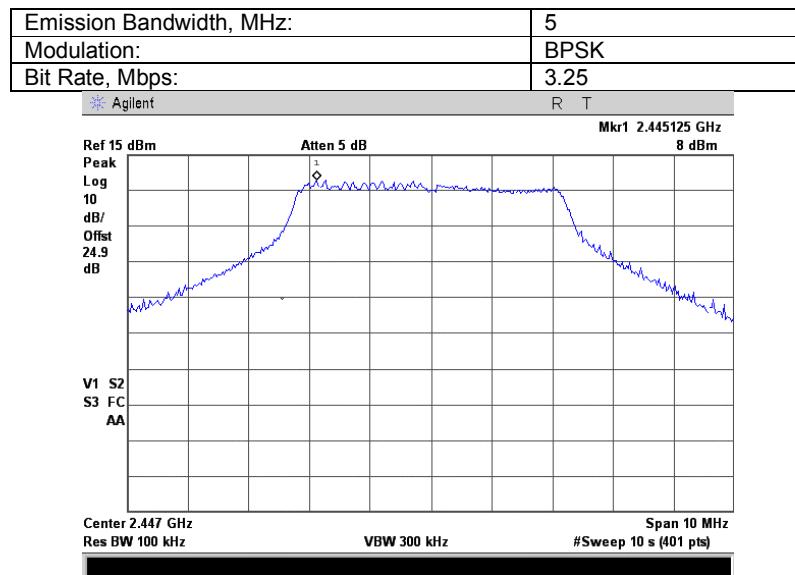




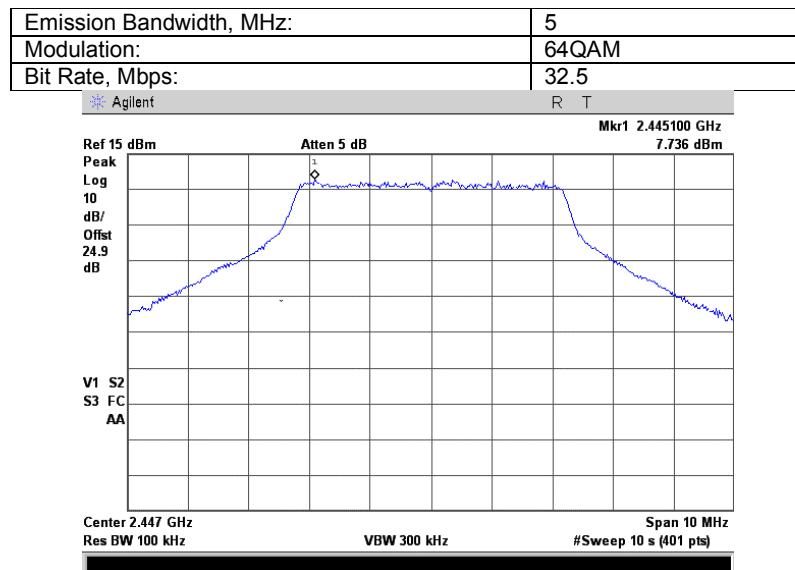
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.91 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)



Plot 7.3.92 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

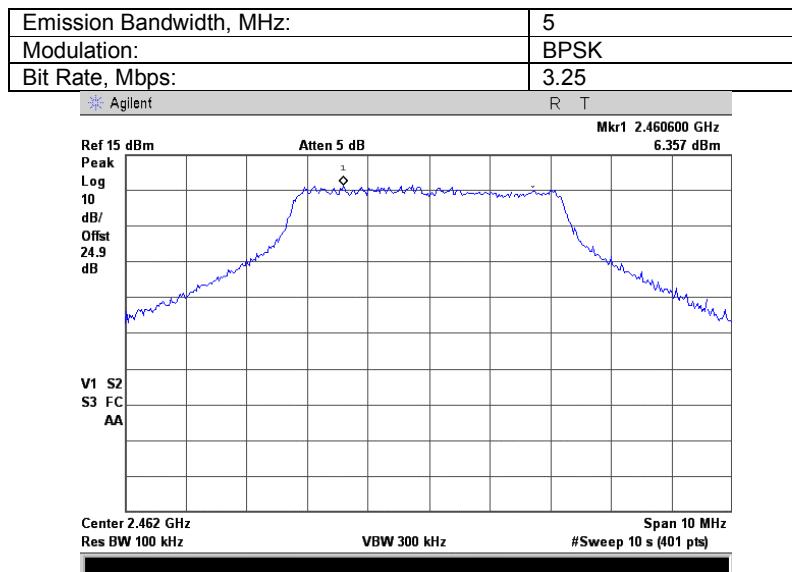




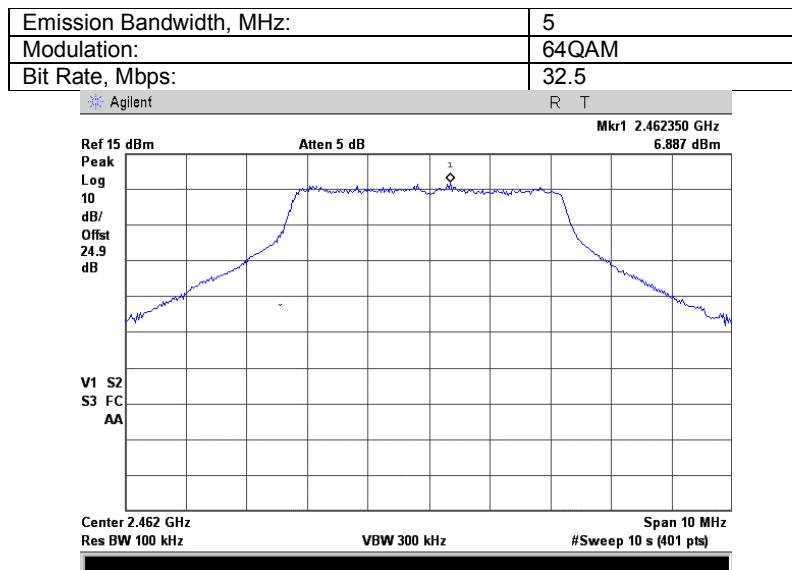
HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.93 The highest emission level within the assigned band at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)



Plot 7.3.94 The highest emission level within the assigned band at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)



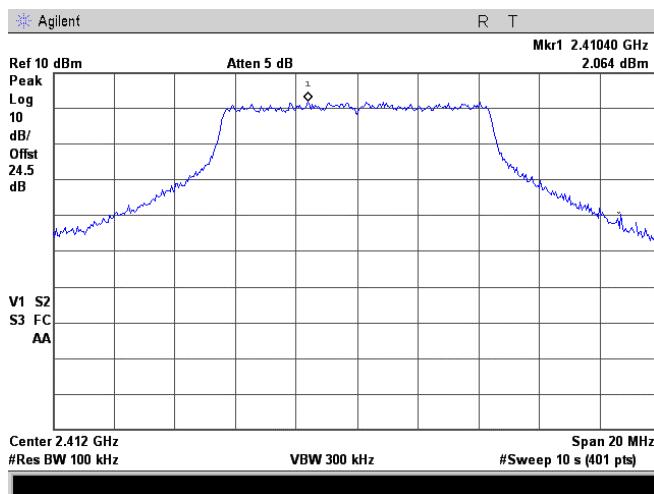


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.95 The highest emission level within the assigned band at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.96 The highest emission level within the assigned band at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

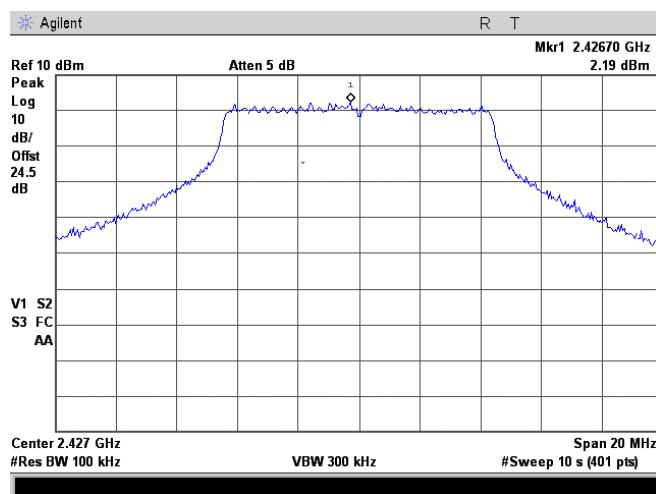
Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

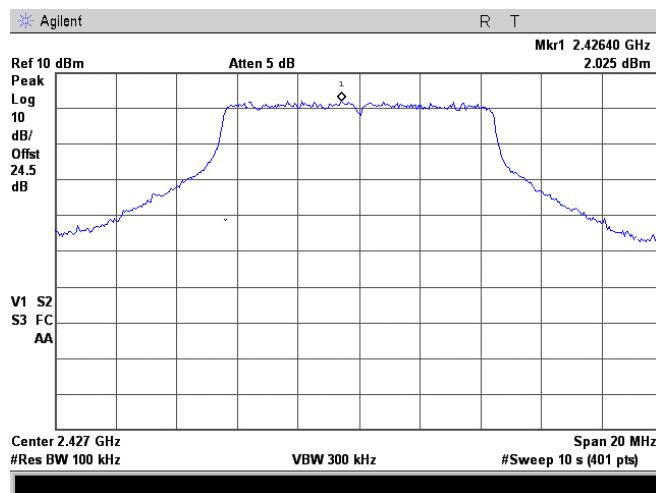
Plot 7.3.97 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.98 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



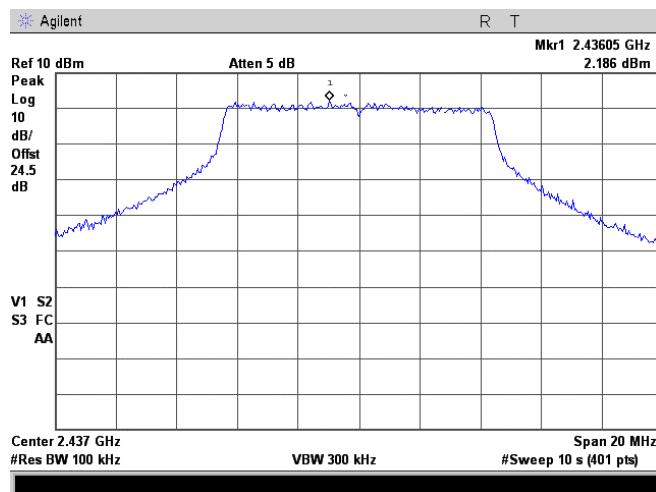


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

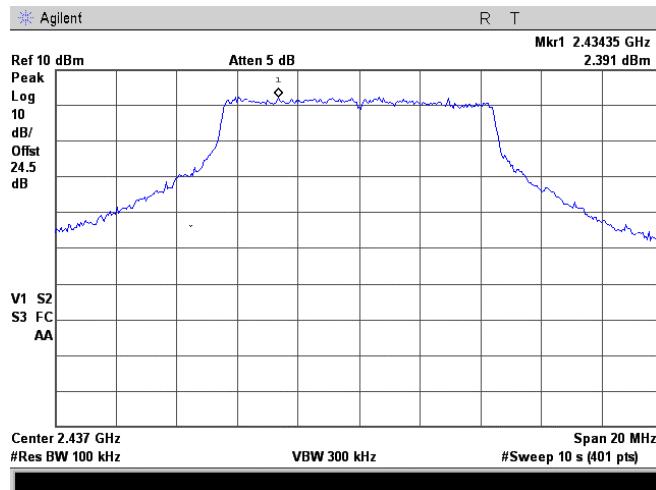
Plot 7.3.99 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.100 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



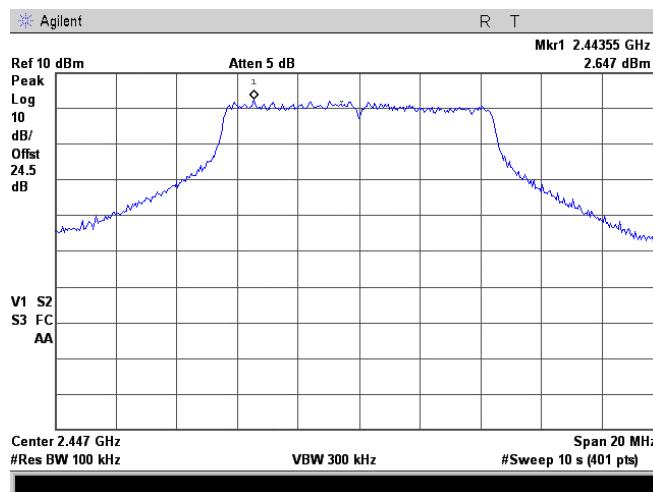


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

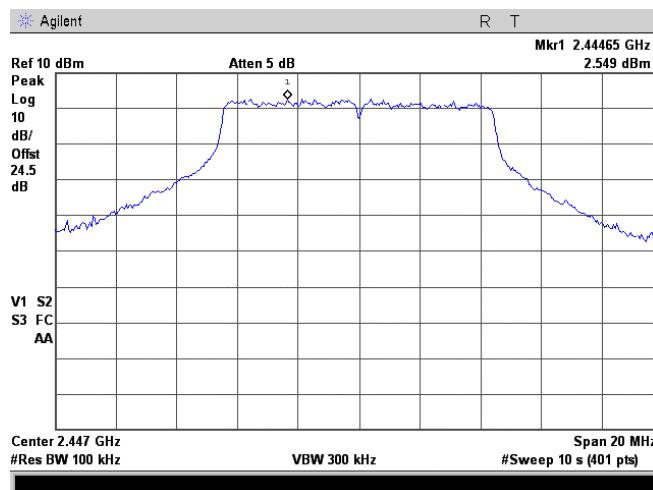
Plot 7.3.101 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.102 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65





HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

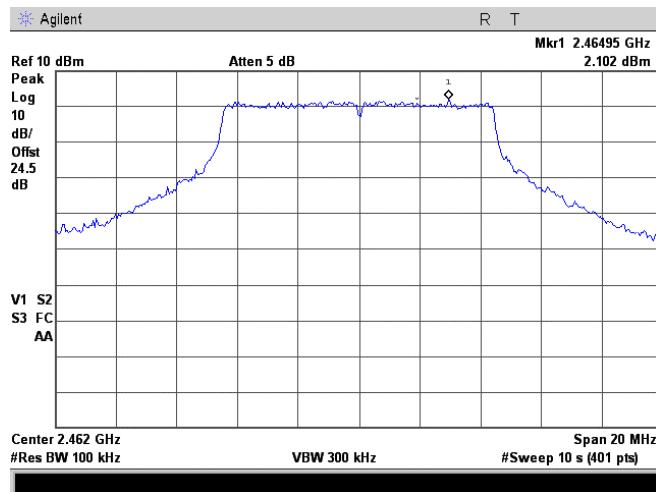
Plot 7.3.103 The highest emission level within the assigned band at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.104 The highest emission level within the assigned band at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



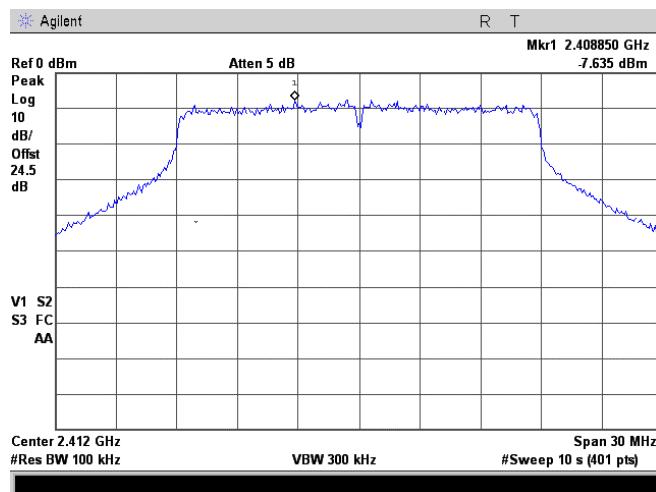


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance		
Date & Time:	4/19/2009 4:12:25 PM	Verdict: PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

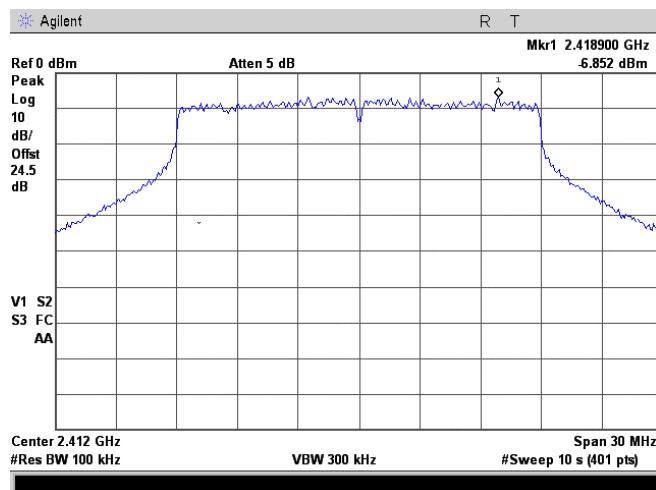
Plot 7.3.105 The highest emission level within the assigned band at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.106 The highest emission level within the assigned band at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



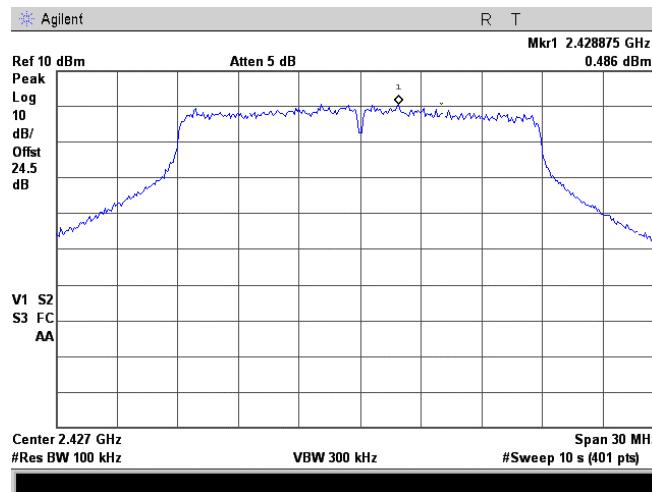


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

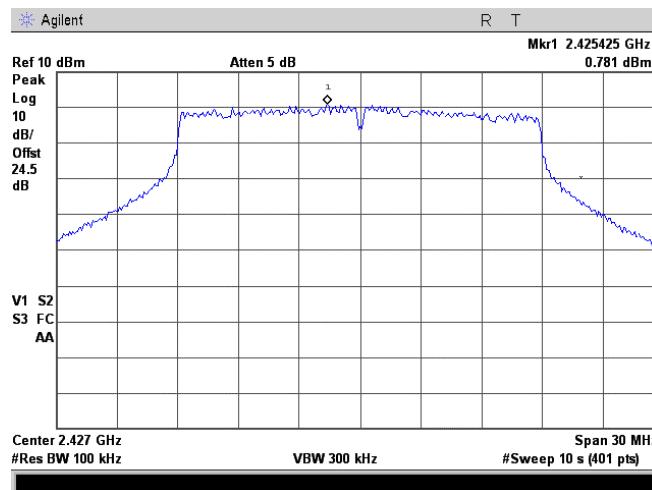
Plot 7.3.107 The highest emission level within the assigned band Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.108 The highest emission level within the assigned band at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

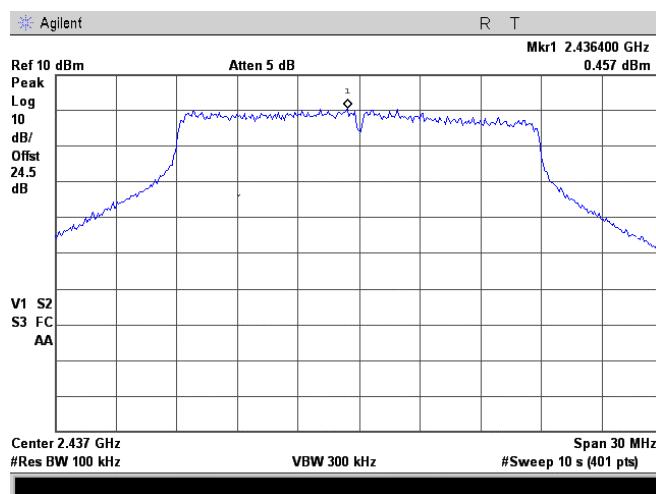
Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

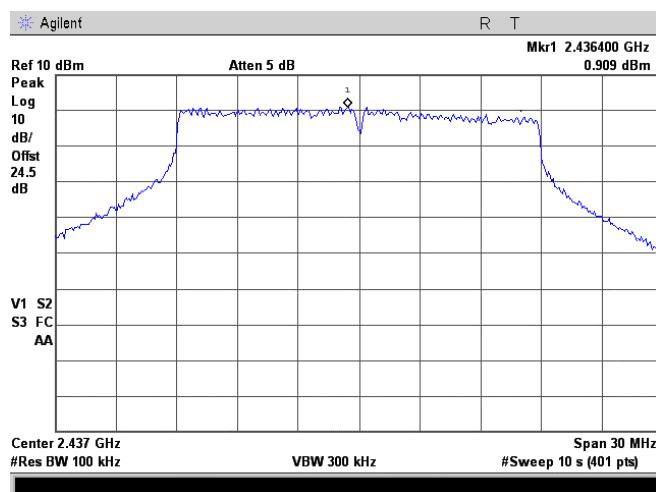
Plot 7.3.109 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.110 The highest emission level within the assigned band at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



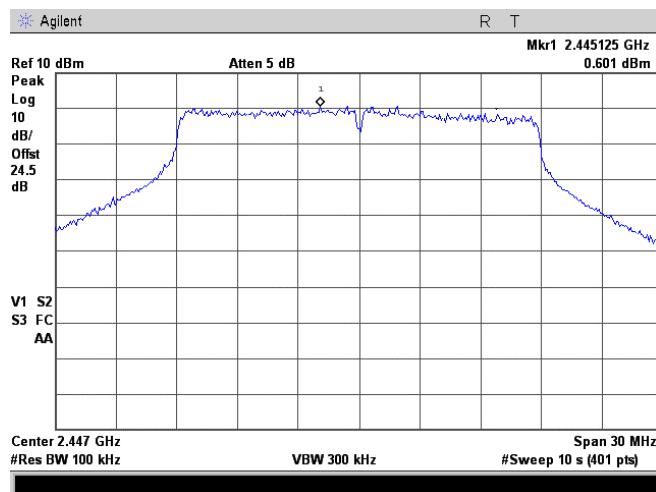


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

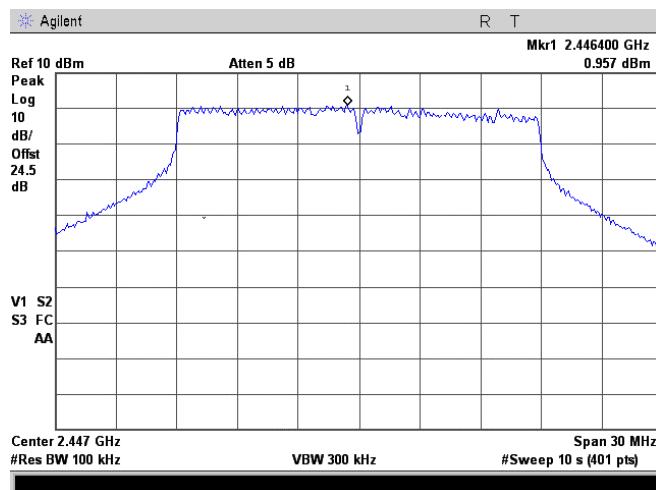
Plot 7.3.111 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.112 The highest emission level within the assigned band at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



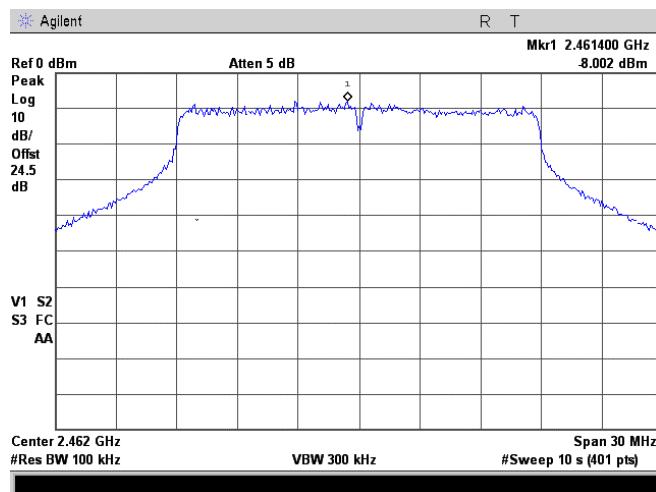


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

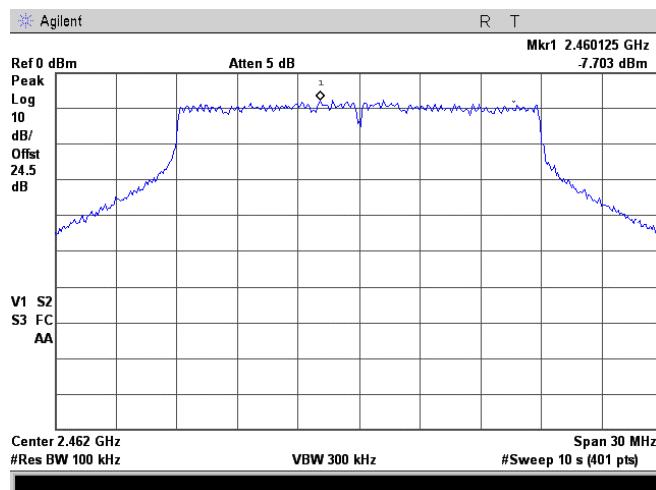
Plot 7.3.113 The highest emission level within the assigned band at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.114 The highest emission level within the assigned band at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

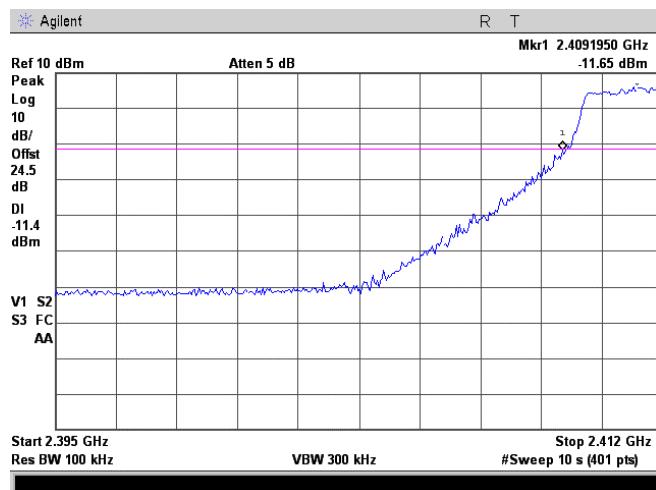
Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

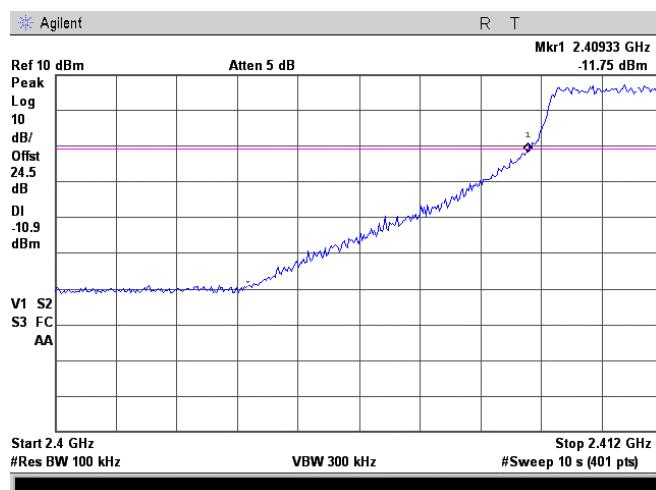
Plot 7.3.115 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25



Plot 7.3.116 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	32.5



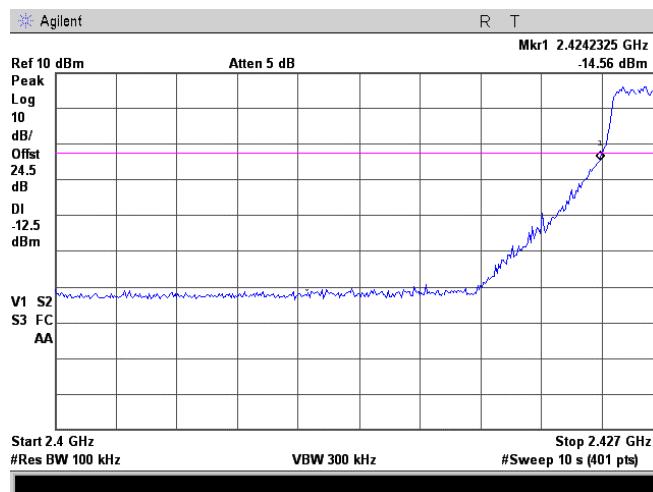


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

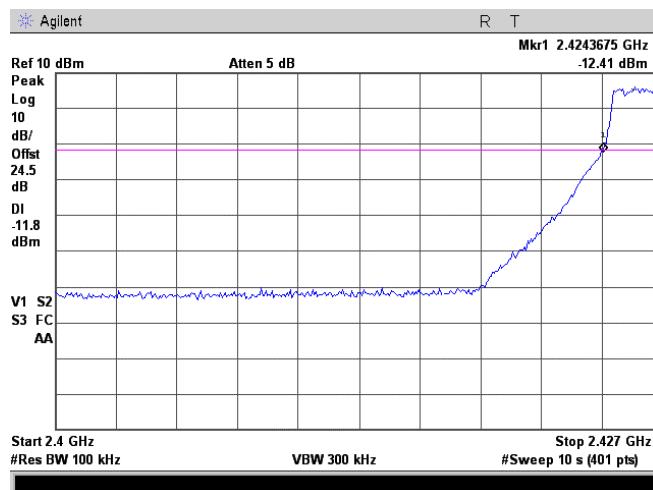
Plot 7.3.117 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25



Plot 7.3.118 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	32.5



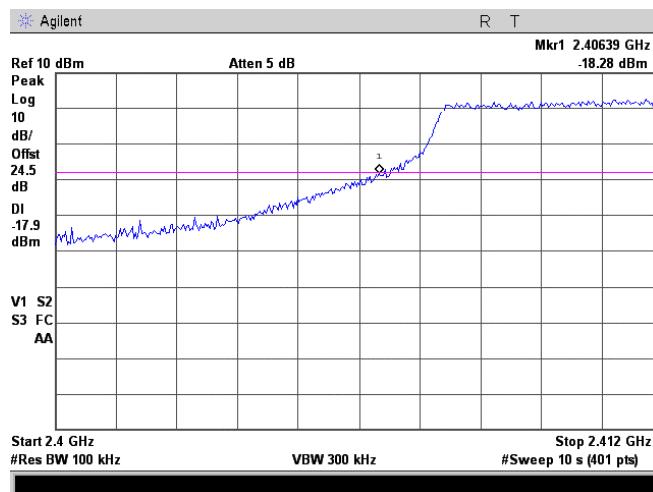


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance		
Date & Time:	4/19/2009 4:12:25 PM	Verdict: PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

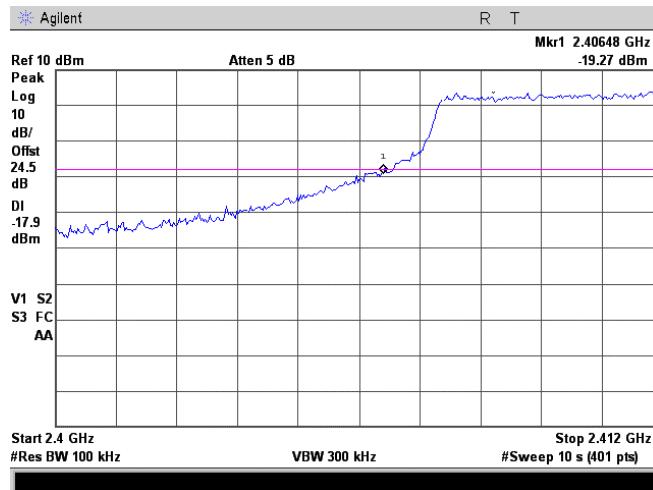
Plot 7.3.119 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.120 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



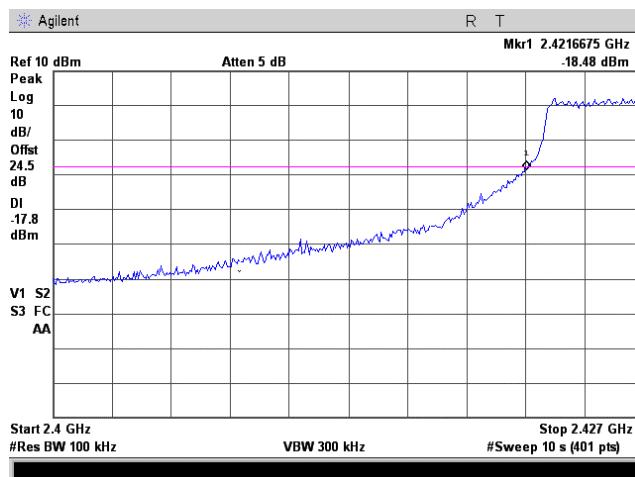


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

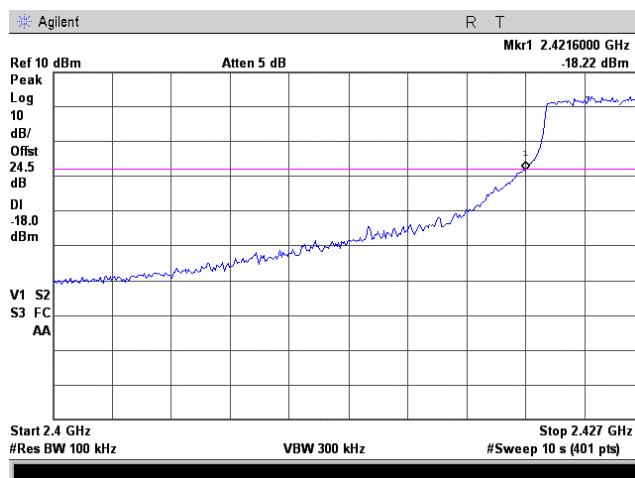
Plot 7.3.121 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5



Plot 7.3.122 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

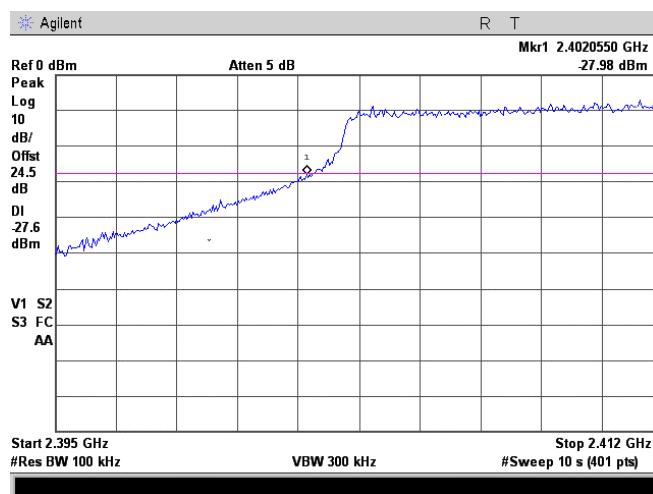
Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

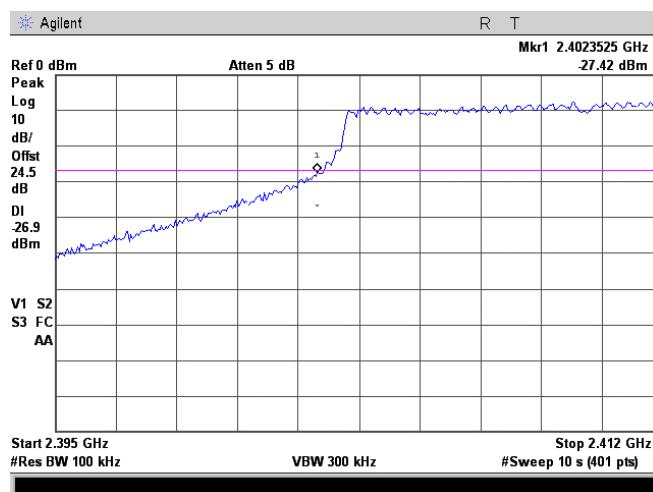
Plot 7.3.123 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.124 Spurious emission measurements at band edge at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



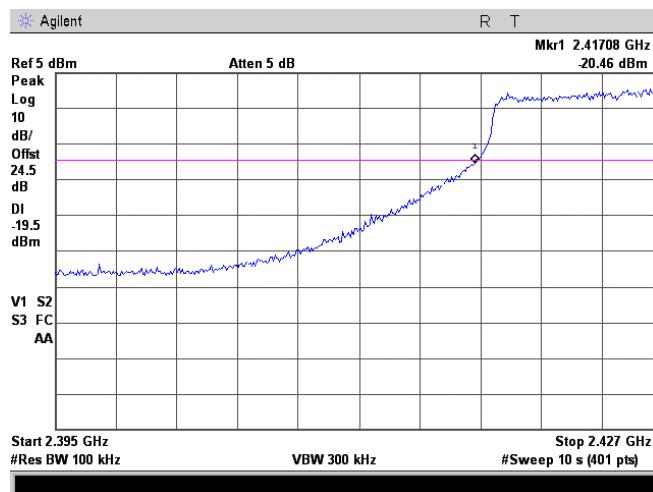


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

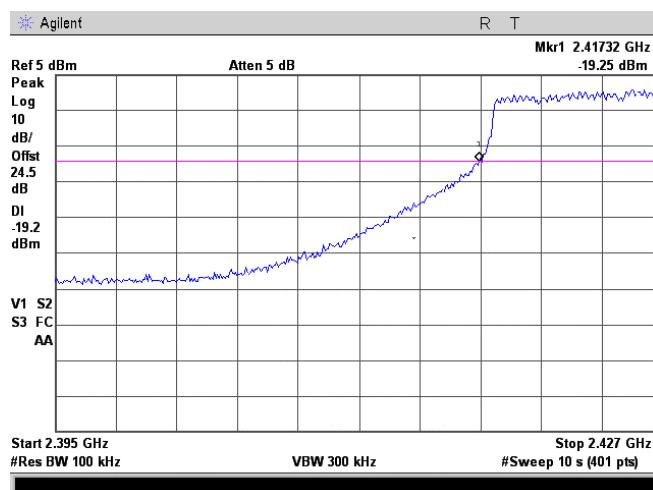
Plot 7.3.125 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13



Plot 7.3.126 Spurious emission measurements at band edge at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



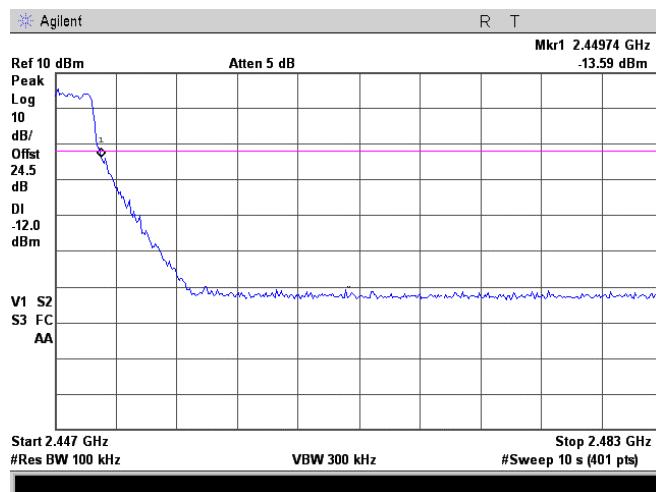


HERMON LABORATORIES

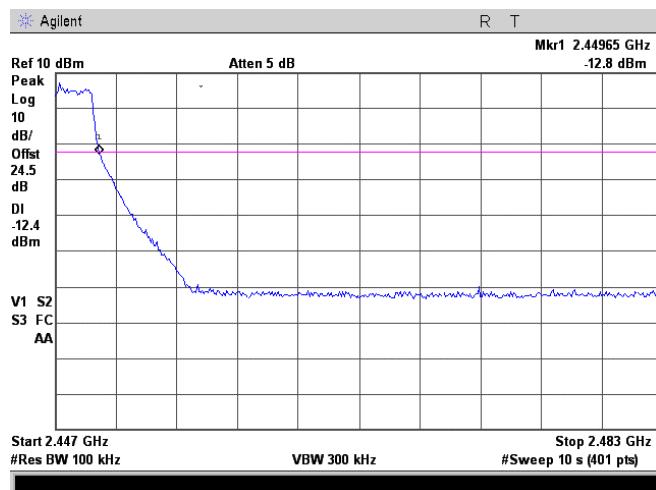
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	PASS
Date & Time:	4/19/2009 4:12:25 PM		
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.127 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25

**Plot 7.3.128 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)**

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	32.5



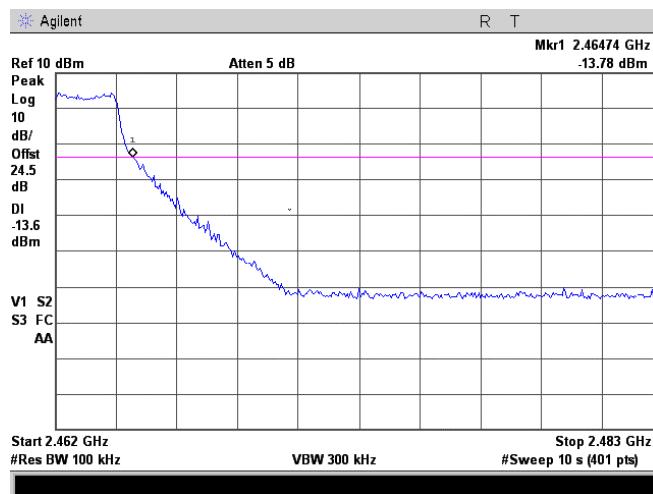


HERMON LABORATORIES

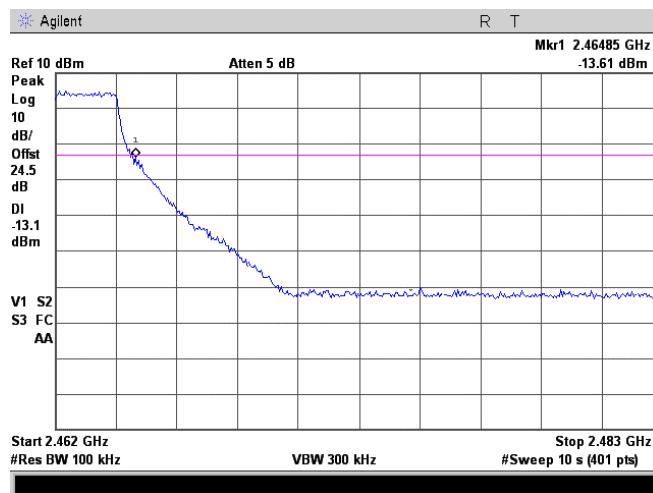
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.129 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	5
Modulation:	BPSK
Bit Rate, Mbps:	3.25

**Plot 7.3.130 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)**

Emission Bandwidth, MHz:	5
Modulation:	64QAM
Bit Rate, Mbps:	32.5

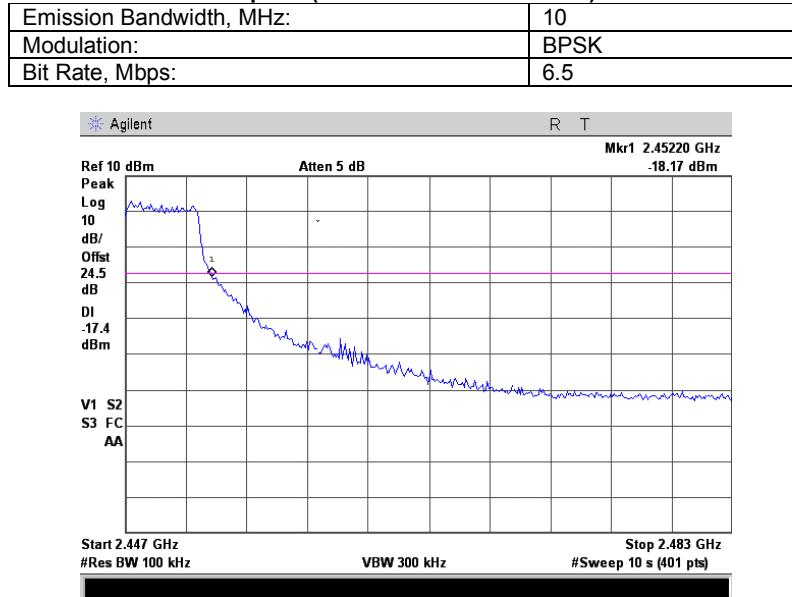




HERMON LABORATORIES

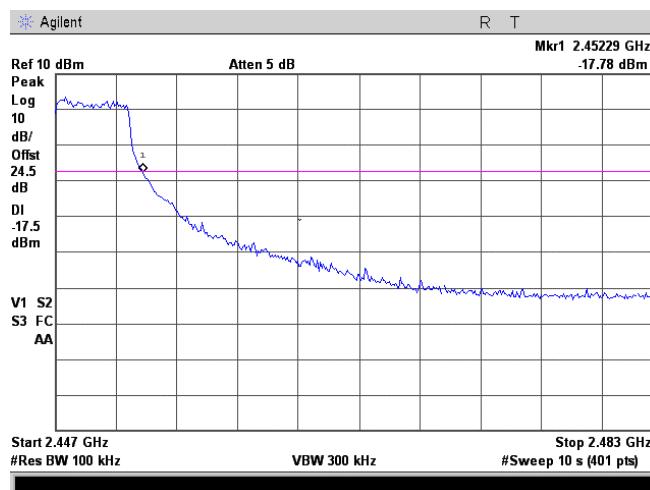
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.131 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)



Plot 7.3.132 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



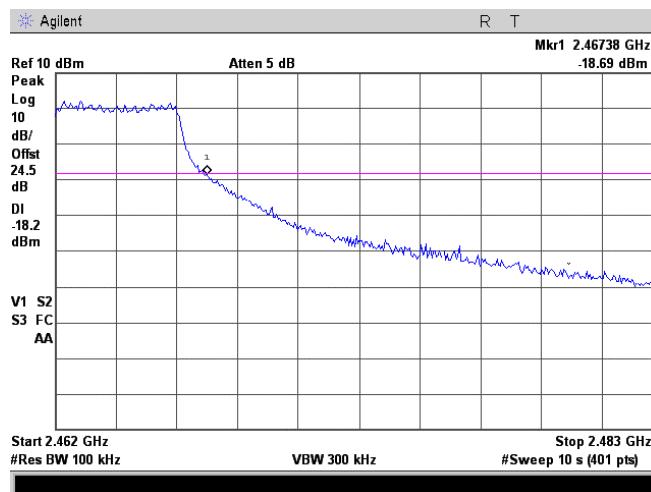


HERMON LABORATORIES

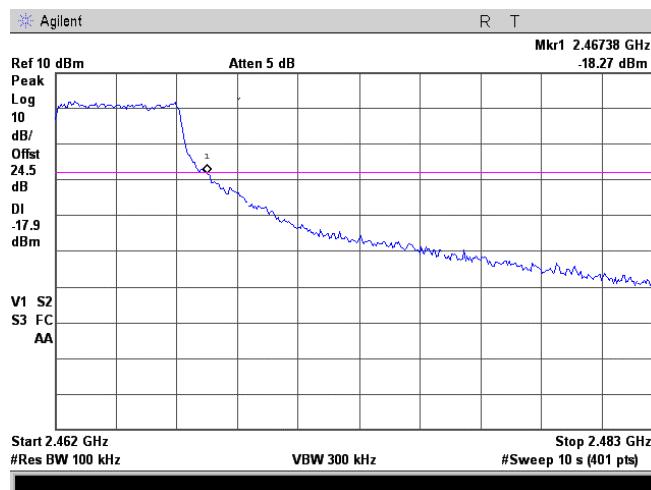
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.133 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	10
Modulation:	BPSK
Bit Rate, Mbps:	6.5

**Plot 7.3.134 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)**

Emission Bandwidth, MHz:	10
Modulation:	64QAM
Bit Rate, Mbps:	65



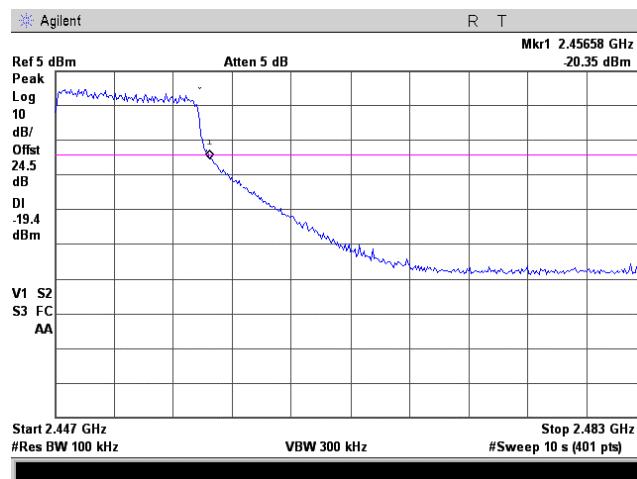


HERMON LABORATORIES

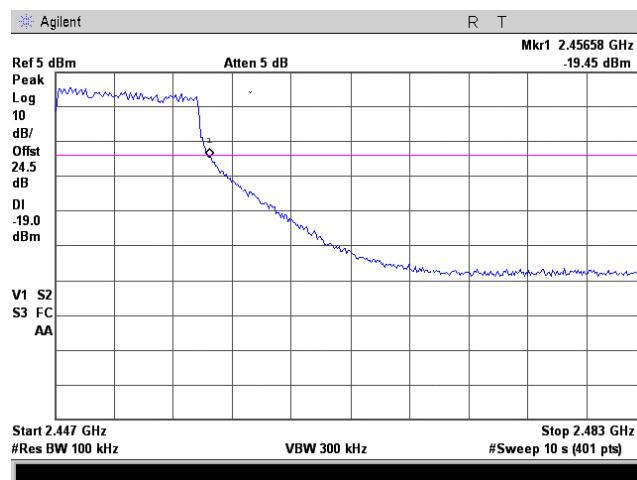
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.135 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13

**Plot 7.3.136 Spurious emission measurements at band edge at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)**

Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



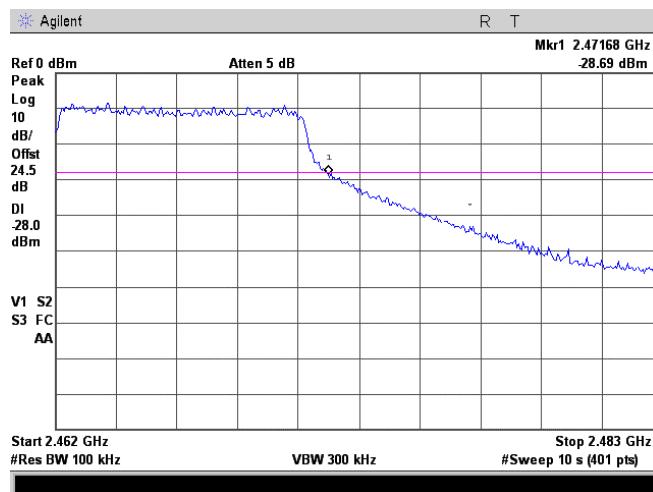


HERMON LABORATORIES

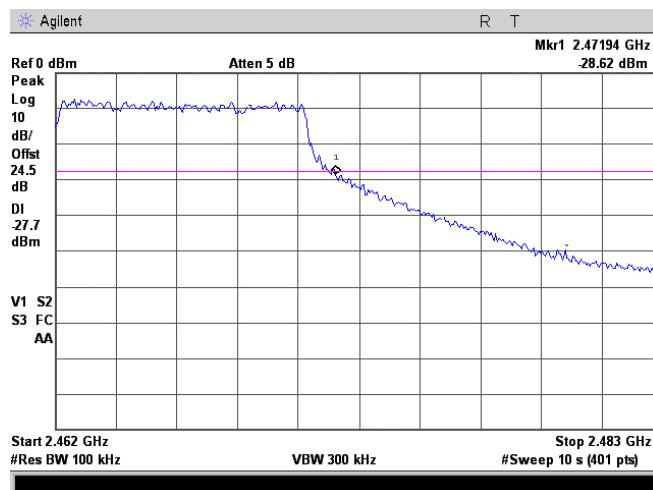
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.137 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Emission Bandwidth, MHz:	20
Modulation:	BPSK
Bit Rate, Mbps:	13

**Plot 7.3.138 Spurious emission measurements at band edge at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)**

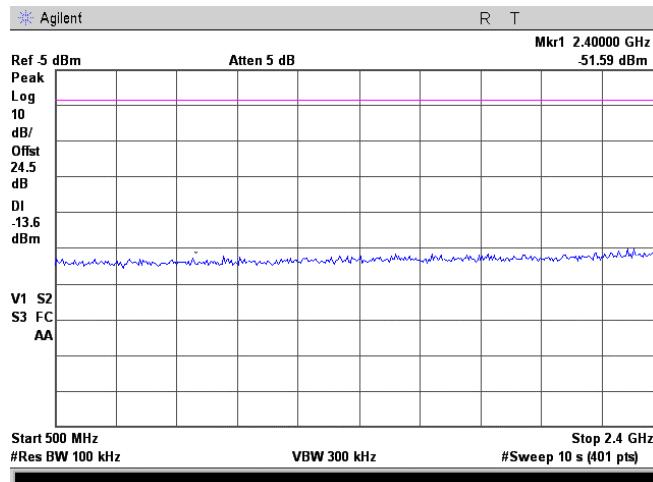
Emission Bandwidth, MHz:	20
Modulation:	64QAM
Bit Rate, Mbps:	130



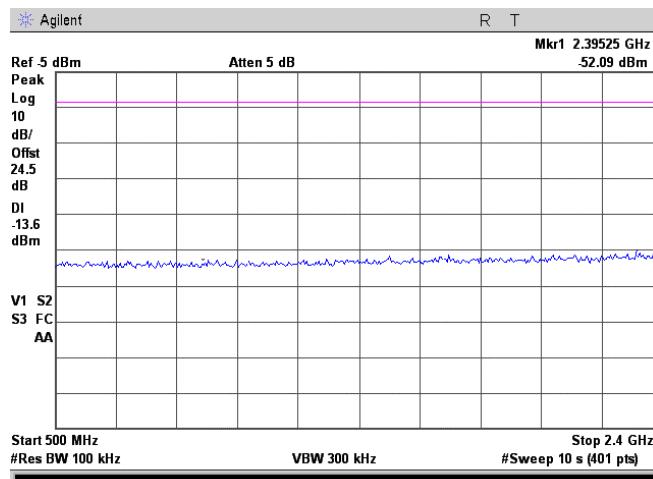


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Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.139 Spurious emission measurements in 500 – 2400 MHz range at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 17.95 dBm limit shall be applied, for 20 MHz EBW the – 27.6 dBm limit shall be applied

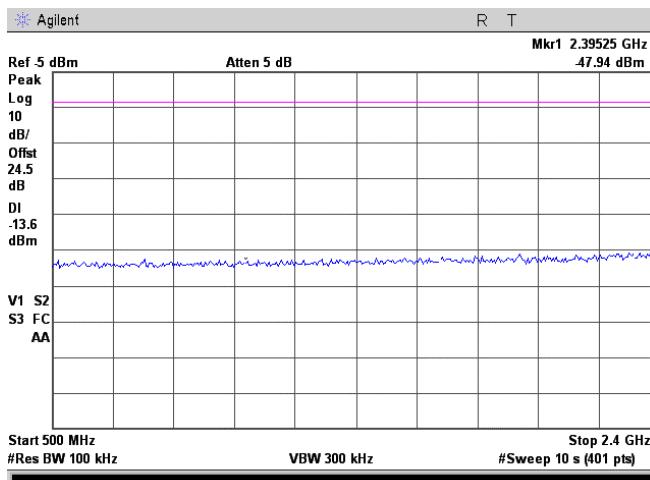
Plot 7.3.140 Spurious emission measurements in 500 – 2400 MHz range at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 18.0 dBm limit shall be applied, for 20 MHz EBW the – 19.5 dBm limit shall be applied

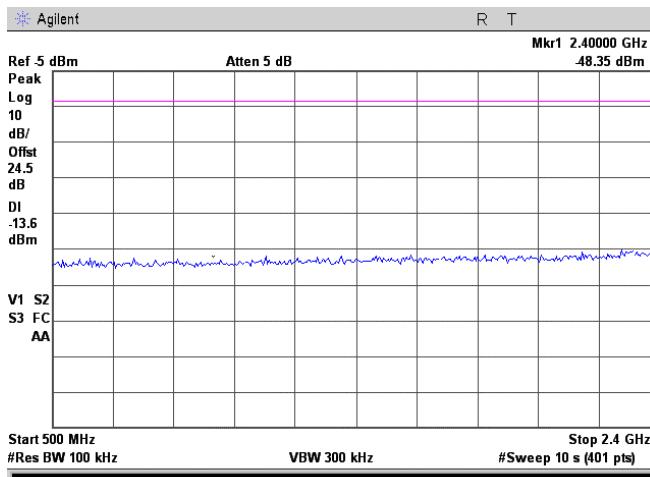


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Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.141 Spurious emission measurements in 500 - 2400 MHz range at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 17.8 dBm limit shall be applied, for 20 MHz EBW the – 19.5 dBm limit shall be applied

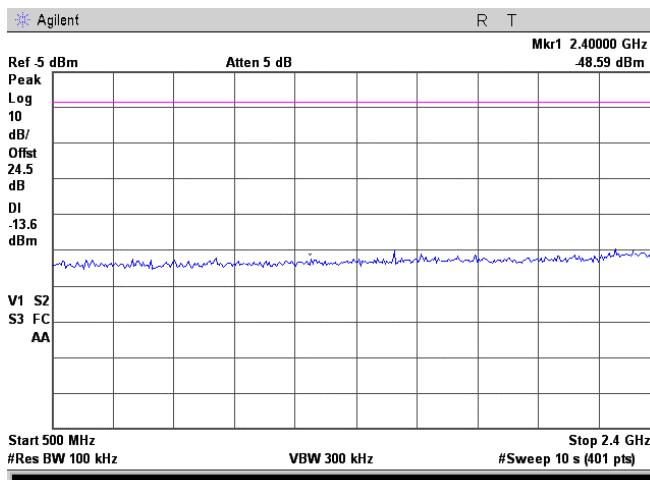
Plot 7.3.142 Spurious emission measurements in 500 - 2400 MHz range at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 17.3 dBm limit shall be applied, for 20 MHz EBW the – 19.4 dBm limit shall be applied

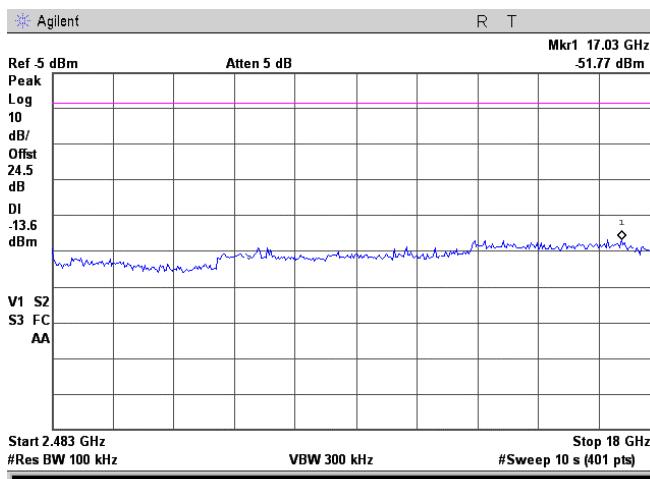


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.143 Spurious emission measurements in 500 - 2400 MHz range at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 18.2 dBm limit shall be applied, for 20 MHz EBW the – 28 dBm limit shall be applied

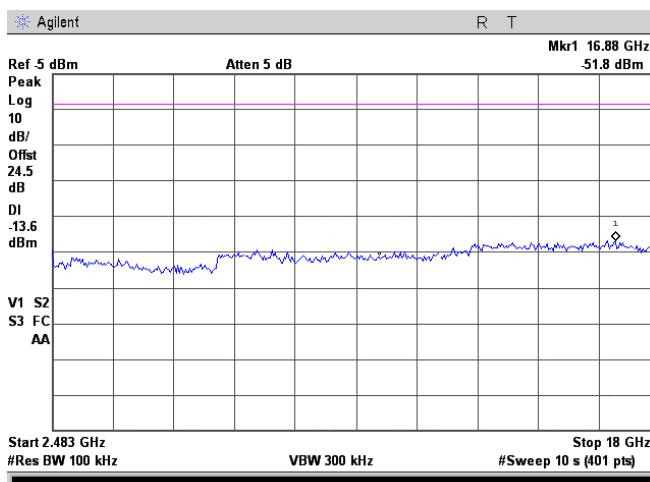
Plot 7.3.144 Spurious emission measurements in 2848 - 18000 MHz range at low carrier frequency 2412 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 17.95 dBm limit shall be applied, for 20 MHz EBW the – 27.6 dBm limit shall be applied

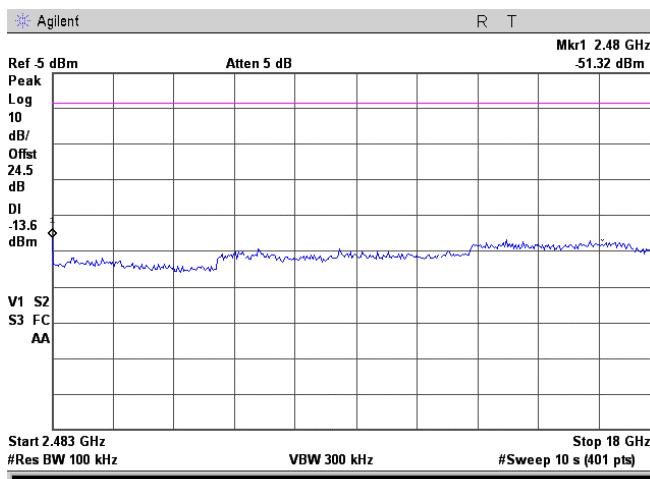


HERMON LABORATORIES

Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.145 Spurious emission measurements in 2848 - 18000 MHz range at Mid low carrier frequency 2427 MHz, combined RF outputs (Antenna 1 and Antenna 2)

Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 18.0 dBm limit shall be applied, for 20 MHz EBW the – 19.5 dBm limit shall be applied

Plot 7.3.146 Spurious emission measurements in 2848 - 18000 MHz range at mid carrier frequency 2437 MHz, combined RF outputs (Antenna 1 and Antenna 2)

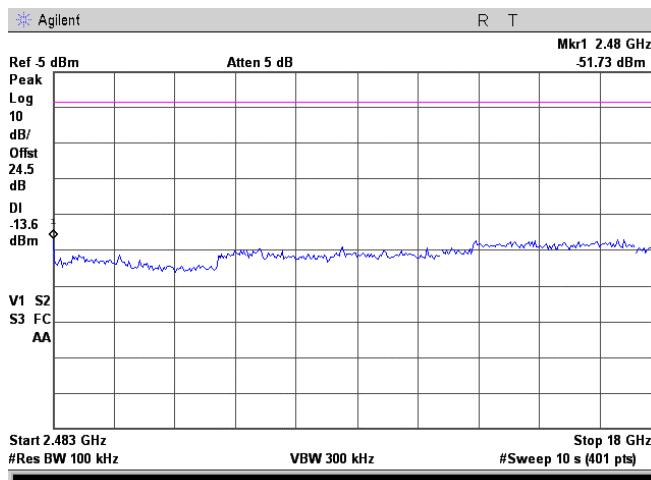
Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 17.8 dBm limit shall be applied, for 20 MHz EBW the – 19.5 dBm limit shall be applied



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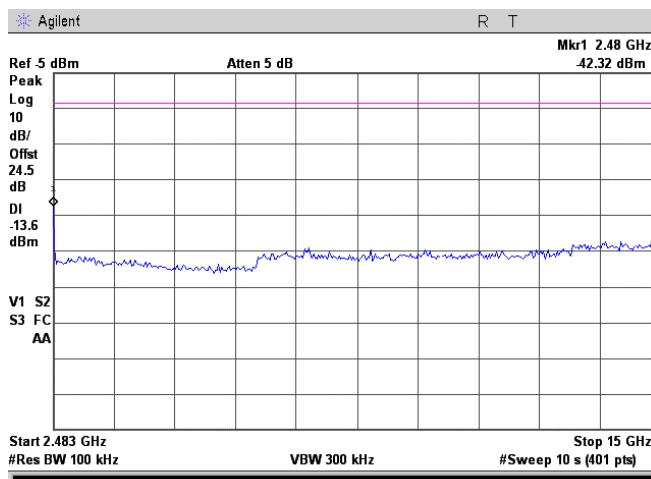
Test specification:	FCC section 15.247(d), RSS-210 section A8.5, Conducted spurious emissions		
Test procedure:	FCC New Guidance on Measurements for DTS in section 15.247(c)		
Test mode:	Compliance	Verdict:	
Date & Time:	4/19/2009 4:12:25 PM	PASS	
Temperature: 24.2 °C	Air Pressure: 1015 hPa	Relative Humidity: 38 %	Power Supply: 120VAC
Remarks:			

Plot 7.3.147 Spurious emission measurements in 2848 - 18000 MHz range at mid High carrier frequency 2447 MHz, combined RF outputs (Antenna 1 and Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 17.3 dBm limit shall be applied, for 20 MHz EBW the – 19.4 dBm limit shall be applied

Plot 7.3.148 Spurious emission measurements in 2484 - 18000 MHz range at high carrier frequency 2462 MHz, combined RF outputs (Antenna 1 and Antenna 2)



Shown limit is for 5 MHz EBW, for 10 MHz EBW the – 18.2 dBm limit shall be applied, for 20 MHz EBW the – 28 dBm limit shall be applied